Note: This is a reference cited in *AP 42, Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources.* AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference maybe from a previous version of the section and no longer cited. The primary source should always be checked.

Development of Em[illegible]s for the Rubber Manufacturing Indust[illegible]y

Volume 2: Project Data

Presented to

Rubber Manufacturers Association

RMA

Presented by

TRC

TRC Environmental Corporation

January 1995

TRC Project No. 16157

January 1995

DEVELOPMENT OF EMISSION FACTORS FOR THE RUBBER MANUFACTURING INDUSTRY

Volume 2

Project Data

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Volume 2

PREFACE

A considerable amount of data were generated during the RMA Emission Factors Development Project. In developing a report format for this study, the program discussions, emissions factor data package, statistical data, and program protocols were identified as requiring segregated volumes to serve the needs of a diverse group of readers. This information is organized and presented in the following volumes:

- Volume 1 Emission Factor Program Results
- Volume 2 Project Data
- Volume 3 Test Procedures and Protocols

The Volume 2 Project Data Report presents a comprehensive, detailed summary of all pertinent process and emissions data generated in this program. Specifically, data contained herein have been organized by individual rubber manufacturing process. Each section presents the process data, a summary of emission factors by pollutant group and rubber or tire type, and detailed emission rates of speciated pollutants.

The processes evaluated and reported in this data package are:

- Internal Mixing and Milling
- Extrusion
- Autoclave Curing
- Calendering
- Hot Air Oven Curing
- Warmup Mill
- Tire Press Curing
- Platen Press Curing
- Grinding

The pollutant emissions evaluated and reported with emission factors are:

- Total Volatile Organic Compounds
- Ozone Precursors
- Sulfur Compounds
- Particulate Matter
- Amines
- Speciated Volatiles
- Speciated Semivolatiles
- Polycyclic Organic Matter
- Trace Metals

The rubber-specific information contained in this report is based upon generic rubber compounds, company-specific tire types, and normal production rubber types. The generic rubber compounds are summarized in Section 1, along with their compounding recipes. The reader should refer to this section to obtain the identification number assigned to each rubber compound evaluated in this program. This compound number is used throughout this report series to identify the individual rubber types.

Due to the confidentiality of the company-specific tire types, information on individual tires is

not presented. Rather, tire-specific information is grouped and presented by press mold size. The tires cured in the tire press were of two size ranges, 195 and 205. These were selected to represent a suitable cross section of tire sizes manufactured in the U.S. Truck tires were not within the scope of this program.

Volume 2

TABLE OF CONTENTS

Title	Section
Preface	
Rubber/Tire Information	A
Rubber Compounds	A.1
Process/Compound Matrix	A.2
Compound Recipes	A.3
Tire Designations	A.4
Internal Mixing and Milling	B
Small Mixer No. 2	B.1
Large Mixer No. 1 and Small Mixer No. 1	B.2
Internal Mixer Control Device	B.3
Tire Curing	C
Tire Press Curing	C.1
Lab Scale Oven Curing - Tire Cuts	C.2
Autoclave Curing	D
Platen Press Curing	E
Grinding Operations	F
Retread Buffing	F.1
Carcass Grinding	F.2
Sidewall/Whitewall Grinding	F.3
Belt Grinding	F.4
Warmup Mill	G
Warmup Mill No. 1	G.1
Warmup Mill No. 2	G.2
Calendering	H
Calender No. 1	H.1
Calender No. 2	H.2
Extrusion	I
Hot Air Oven Curing	J
Formaldehyde Emissions	K

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SECTION A

RUBBER INFORMATION

A.1 Rubber Compounds
A.2 Process/Compound Matrix
A.3 Compound Recipes
A.4 Tire Designations

Section A.1

Rubber Compounds

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INDEX OF RUBBER COMPOUNDS

Compound #1: Tire Inner Liner (BrIIR/NR)

Compound #2: Tire Ply Coat (Natural Rubber/Synthetic Rubber)

Compound #3: Tire Belt Coat (Natural Rubber)

Compound #4: Tire Base/Sidewall (Natural Rubber/Polybutadiene Rubber)

Compound #5: Tire Apex (Natural Rubber)

Compound #6: Tire Tread (Styrene Butadiene Rubber/Polybutadiene Rubber)

Compound #7: Tire Bladder (Butyl Rubber)

Compound #8: EPDM 1 (EPDM Sulfur Cure)

Compound #9: EPDM 2 (Peroxide Cure)

Compound #10: EPDM 3 (Non–black EPDM Sulfur Cure)

Compound #11: CRW (Polychloroprene W Type)

Compound #12: CRG (Polychloroprene G Type)

Compound #13: Paracryl OZO (NBR/PVC)

Compound #14: Paracryl BLT (NBR)

Compound #15: Hypalon (CSM)

Compound #16: Fluoroelastomer (FKM)

Compound #17: AEM (Vamac)

Compound #18: Hydrogenated Nitrile (HNBR)

Compound #19: Silicone (VMQ)

Compound #20: Acrylate Rubber (ACM)

Compound #21: Chlorinated Polyethylene (CPE)

Compound #22: Emulsion SBR (SBR 1502)

Compound #23: Epichlorohydrin (ECO)

Compound #24: Oil–Extended SBR (SBR 1712) [a]

Compound #25: Emulsion SBR (SBR 1500) [a]

Compound #26: Solution SBR (Duradene 707) [a]

[a] compounds 24, 25, 26 were mixes of polymer only, with no fillers or cure system

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Section A.2

Process/Compound Matrix

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MANUFACTURING PROCESS/COMPOUND MATRIX

RUBBER COMPOUND OR PRODUCT	AUTOCLAVE	EXTRUDER	INTERNAL INTENSIVE MIXERS			
			Large Mixer No. 1	Small Mixer No. 1	Small Mixer No. 2	Torit Contr. Device
1) Tire Inner Liner					X	
2) Tire Ply Coat					X	
3) Tire Belt Coat					X	
4) Tire Base/Sidewall	X	X	X	X	X	
5) Tire Apex	X				X	(2)
6) Tire Tread	X	X	X		X	
7) Tire Curing Bladder					X	
8) EPDM 1	X				X	
9) EPDM 2	X (1)	X	X	X (3)	X	
10) EPDM 3					X	
11) CRW	X				X	
12) CRG					X	
13) Paracryl OZO					X	
14) Paracryl BLT					X	
15) Hypalon	X				X	
16) Fluoroelastomer					X	
17) AEM					X	
18) Hydrogenated Nitrile	X				X	
19) Silicone					X	
20) Acrylate Rubber					X	
21) Chlorinated Polyethylene	X				X	
22) Emulsion SBR (1502)	X	X	X	X	X	
23) Epichlorohydrin					X	
24) SBR 1712					X	
25) SBR 1500					X	
26) SBR Duradene					X	

(1) Extruded EPDM 2 was also tested.
(2) Master Batch with natural rubber, carbon black, and some additives.
(3) Note that EPDM 2 may have been mixed improperly, causing partial curing during this testing.

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MANUFACTURING PROCESS/COMPOUND MATRIX

RUBBER COMPOUND OR PRODUCT	PLATEN PRESS	CALENDERING		WARMUP MILL	
		Calender No. 1	Calender No. 2	Warmup Mill No. 1	Warmup Mill No. 2
1) Tire Inner Liner	X				
2) Tire Ply Coat	X		X		X
3) Tire Belt Coat	X				X
4) Tire Base/Sidewall					X
5) Tire Apex	X				
6) Tire Tread					
7) Tire Curing Bladder	X				
8) EPDM 1					
9) EPDM 2	X				
10) EPDM 3	X				
11) CRW	X				
12) CRG	X	X		X	
13) Paracryl OZO	X				
14) Paracryl BLT	X				
15) Hypalon					
16) Fluoroelastomer	X				
17) AEM	X				
18) Hydrogenated Nitrile					
19) Silicone	X				
20) Acrylate Rubber	X				
21) Chlorinated Polyethylene					
22) Emulsion SBR (1502)	X				
23) Epichlorohydrin	X				
24) SBR 1712					
25) SBR 1500					
26) SBR Duradene					

(1) Extruded EPDM 2 was also tested.
(2) Master Batch with natural rubber, carbon black, and some additives.
(3) Note that EPDM 2 may have been mixed improperly, causing partial curing during this testing.

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Section A.3

Compound Recipes

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RUBBER COMPOUND RECIPES

Compound #1: Tire Inner Liner (BrIIR/NR)

Recipe:

Brominated IIR X−2	85.00
SMR 20 Natural Rubber	15.00
GPF Black	60.00
Stearic Acid	1.00
Paraffinic Medium Process Oil	15.00
Unreactive Phenol formaldehyde type resin (Arofene 8318, SP1068)	5.00
Zinc Oxide	3.00
Sulfur	.50
MBTS	1.50
	186.00

Number of Passes/Temperature:
1 (NP Temperature: 320°F; Chlorobutyl or 290°F Bromobutyl
2 (P) Temperature: 220°F

Compound #2: Tire Ply Coat (Natural Rubber/Synthetic Rubber)

Recipe:
50472 Natural Rubber

SMR−GP Natural Rubber	70.00
Duradene 707	30.00
N330	36.50
Sundex 790	20.00
Flectol H	1.50
Santoflex IP	2.30
Sunproof Super Wax	1.20
Zinc Oxide	5.00
Stearic Acid	1.00
Sulfur	2.30
CBS	.80
	170.60

Number of Passes/Temperature:
1 (NP) Temperature: 330°F
2 (P) Temperature: 220°F

Compound #3: Tire Belt Coat (Natural Rubber)

Recipe:

#1RSS Natural Rubber	100.00
HAF Black (N330)	55.00
Aromatic Oil	5.00
N−(1,3 dimethylbutyl) −N−phenyl−P−phenylene diamine (Santoflex 13)	1.00
Zinc Oxide	10.00
Stearic Acid	2.00
n−tertiary −butyl−2−benzothiazole disulfide (Vanax NS)	.80
Sulfur	4.00
Cobalt Neodecanate (20.5% cobalt)	2.50
	180.30

Number of Passes/Temperatures:
1 (NP) Temperature: 330°F; add 1/2 black, add 1/2 oil
2 (NP) Temperature: 330°F; add remainder of black and oil
3 (remill) Temperature 300°F
4 (P) Temperature: 220°F

RUBBER COMPOUND RECIPES

Compound #4: Tire Base/Sidewall (Natural Rubber/Polybutadiene Rubber)

Non-Productive Recipe:

NR-SMR-5 CV	50.00
Taktene 1220	50.00
N330 Carbon Black	50.00
Zinc Oxide	1.50
Stearic Acid	2.00
Agerite Resin D	2.00
Vulkanox 4020	3.00
Vanwax H Special	3.00
Flexon 580 Oil	10.00
	171.50

Productive Recipe:

Non Productive	171.50
Zinc Oxide	1.50
Rubber Maker Sulfur	1.75
DPG	0.10
CBS	0.60
	175.45

Number of Passes/Temperatures:
1 (NP) Temperature: 330°F
2 (P) Temperature: 220°F

Compound #5: Tire Apex (Natural Rubber)

Recipe:

TSR 20 Natural Rubber	100.00
HAF Black (N330)	80.00
Aromatic Oil	8.00
Stearic Acid	1.00
Resorcinol	3.00
Hexamethylenetetramine	3.00
Zinc Oxide	3.00
N-tertiary-butyl-2-benzothiazole disulfide (Vanax NS)	1.50
n-cyclohexylthiopthalimide (Santogard PVI)	.30
Sulfur	3.00
	202.80

1 (NP) Temperature: 330°F; add 60 parts black, add 6 parts oil
2 (NP) Temperature: 330°F; add Resorcinol, add 20 parts black, add 2 parts oil
3 (P) Temperature 200°F; add Hexam.

RUBBER COMPOUND RECIPES

Compound #6: Tire Tread (Styrene Butadiene Rubber/Polybutadiene Rubber)

Non-Productive Recipe #1:

SBR 1712C	110.00
N299 Carbon Black	60.00
Taktene 1220	20.00
Zinc Oxide	1.50
Stearic Acid	3.00
Vulkanox 4020	2.00
Wingstay 100	2.00
Vanox H Special	2.50
Sundex 8125 Oil	20.00
	221.00

Non-Productive Recipe #2:

Non-Productive #1:	221.00
N299 Carbon Black	20.00
Sundex 8125 Oil	5.00
	246.00

Productive Recipe:

Non Productive #2	246.00
Zinc Oxide	1.50
Rubber Maker Sulfur	1.60
TMTD	0.20
CBS	3.00
	252.30

Number of Passes/Temperatures:
1 (NP) Temperature: 330°F; add 60 parts black, add 20 parts oil
2 (NP) Temperature: 330°F; add 20 parts black; add 5 parts oil
3 (P) Temperature: 220°F

Compound #7: Tire Bladder

Recipe:

BUTYL 268	100.00
N330	55.00
Castor Oil	5.00
SP 1045 Resin	10.00
Zinc Oxide	5.00
Neoprene W	5.00
	180.00

Number of Passes/Temperatures:
NP 1 All Butyl, Castor Oil, Zinc Oxide, 45 phr N330, discharge approx 330°F/340°F
+Resin, 10 phr N330, discharge approx 270/280°F DO NOT EXCEED 290°F
PROD NP2 = neoprene, discharge approx 250F/260°F

RUBBER COMPOUND RECIPES

Compound #8: EPDM 1 (EPDM Sulfur Cure)

Non-Productive Recipe:

Vistalon 7000	50.00
Vistalon 3777	87.50
N650 GPF-HS Black	115.00
N762 SRF-LM Black	115.00
Process Oil Type 104B (Sunpar 2280)	100.00
Zinc Oxide	5.00
Stearic Acid	1.00
	473.50

Productive Recipe:

Non-Productive	473.50
Sulfur	0.50
TMTDS	3.00
ZDBDC	3.00
ZDMDC	3.00
DTDM	2.00
	485.00

Number of Passes/Temperatures
1 (NP) Temperature: 340°F; upside down mix, rubber then black and oil
2 (P) Temperature: 220°F

Compound #9: EPDM 2 (Peroxide Cure)

Non-Productive Recipe:

Royalene 502	100.00
N 762 Carbon Black	200.00
Sunpar 2280 Oil	85.00
Zinc Oxide	5.00
Stearic Acid	1.00
	391.00

Productive:

Non-Productive	391.00
DICUP 40C	6.00
SARET 500 (on carrier/2 parts active)	2.56
	399.56

NP Temperature: 330°F
P Temperature: 240°F

Compound #10: EPDM 3 (Non-black EPDM Sulfur Cure)

Recipe:

Vistalon 5600	50.00
Vistalon 3777	87.50
Hard Clay (Suprex)	180.00
Mistron Vapor Talc	100.00
Atomite Whiting	40.00
Process Oil Type 104B (Sunpar 2280)	60.00
Silane (A-1100)	1.50
Paraffin Wax	5.00
Zinc Oxide	5.00
Stearic Acid	1.00
Sulfur	1.50
Cupsac	0.50
TMTD	3.00
	535.00

Number of Passes/Temperatures:
1 (NP) Temperature: 330°F
2 (P) Temperature: 220°F, add Sulfur, Cupsac, and TMTDS

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RUBBER COMPOUND RECIPES

Compound #11: CRW (Polychloroprene W Type)

Recipe:

Non Productive:	
Neoprene WRT	100.00
N 550	13.20
N 762	15.70
Agerite Staylite S	2.00
Sunproof Super Wax	2.00
Santoflex IP	1.00
Magnesium Oxide	4.00
Stearic Acid	0.50
PlastHall Doz	15.00
	153.40

Productive Recipe:	
Non-Productive	153.40
Zinc Oxide	5.00
TMTD	0.50
Dispersed Ethylene Thiourea	1.00
	159.90

Number of Passes/Temperatures:
1 pass at 240°F; add accelerator package at 200°F

Compound #12: CRG (Polychloroprene G Type)

Non Productive Recipe:

Neoprene GN	100.00
SRF	50.00
Sundex 790	10.00
Octamine	2.00
Stearic Acid	1.00
Maglite D	4.00
	167.00

Productive Recipe:	
Non-Productive	167.00
TMTM	0.50
Sulfur	1.00
DOTG	0.50
Zinc Oxide	5.00
	174.00

Number of Passes/Temperatures:
1 (NP) Temperatures: 240°F; add zinc oxide and cureatives late at 200°F
2 (P) Temperature: 200°F

RUBBER COMPOUND RECIPES

Compound #13: Paracryl OZO (NBR/PVC)

Recipe:

PARACRIL OZO	100.00
Zinc Oxide	5.00
OCTAMINE	2.00
Hard Clay	80.00
FEF (N−550) Black	20.00
Stearic Acid	1.00
MBTS	2.50
TUEX	1.50
ETHYL TUEX	1.50
DOP	15.00
KP−140	15.00
Spider Sulfur	0.20
	243.70

Number of Passes:
(NP) Temperature: 330°F
(P) Temperature: 220°F; add MBTS, TUEX, ETHYL TUEX, Spider Sulfur

Compound #14: Paracryl BLT (NBR)

Recipe:

PARACRIL BLT	100.00
Zinc Oxide	5.00
SRF (N−774) Black	100.00
TP−95	15.00
Paraplex G−25	5.00
AMINOX	1.50
Stearic Acid	1.00
ESEN	0.50
MONEX	1.50
Sulfur	0.75
	230.25

Number of Passes/Temperatures:
(NP) Temperature: 280°F
(P) Temperature: 220°F; add sulfur, MONEX, and possibly ESEN

Compound #15: Hypalon (CSM)

Recipe:

Hypalon 40	100.00
CLS 4 PBD	3.00
Carbo wax 4000	3.00
PE 617A	3.00
Mag Lite D	5.00
PE 200	3.00
Whiting (Atomite)	100.00
N650	100.00
TOTM Oil	70.00
MBTS	1.00
Tetrone A	1.50
NBC	0.50
HVA−2	0.50
	390.50

Uses of Formulas/Temperatures:
Number of Passes:
1 (P) Temperature: 280°F

RUBBER COMPOUND RECIPES

Compound #16: Fluoroelastomer (FKM)

Recipe:

Viton E60C	100.00
N990 Black	20.00
Calcium Hydroxide	6.00
Maglite D	3.00
	129.00

Compound #17: AEM (Vamac)

Recipe:

VAMAC*B−124 Masterbatch	124.00
ARMEEN 18D	.50
Stearic Acid	.20
SRF Carbon Black (N−774)	10.00
DIAK #1	4.00
DPG	4.00
	142.70

Compound #18: Hydrogenated Nitrile (HNBR)

Non−Productive Recipe:

HNBR Zetpol 2020	100.00
N650 Black	45.00
Flexone 7P	1.00
Agerite Resin D	1.00
ZMTI	1.00
Kadox 911 C	5.00
Stearic Acid	1.00
Trioctyl trimellitate (TOTM)	7.00
	161.00

Productive Recipe:

Sulfur	0.50
MBTS	1.50
TMTD	1.50
MTD Monex	.50
	165.00

Number of Passes/Temperatures:
1 (NP) Temperature: 275°F
2 (P) Temperature: 210°F

Compound #19: Silicone (VMQ)

Recipe:

Silicone Rubber	70.00
Silastic NPC−80 silicone rubber	30.00
5 Micron Min−U−Sil	68.00
Silastic HT−1 modifier	0.80
Vulcanizing agent: Varox DBPH 50	1.00
	169.80

RUBBER COMPOUND RECIPES

Compound #20: Acrylate Rubber (ACM)

Non–Productive Recipe:

Hytemp AR71	100.00
Stearic Acid	1.00
N 550	65.00
	166.00

Productive Recipe:

Non–Productive	166.00
Sodium Stearate	2.25
Potassium Stearate	0.75
Sulfur	0.30
	169.30

Number of Passes/Temperatures:
1 (NP) Temperature: 260°F
2 (P) Temperature: 220°F

Compound #21: Chlorinated Polyethylene (CPE)

Recipe:

CM 0136	100.00
Maglite D	10.00
N 774 Black	30.00
Sterling VH	35.00
DER 331 DLC	7.00
Agerite Resin D	0.20
TOTM Oil	35.00
Triallyl Isocyanurate Cure 5223 (provided by Gates)	2.90
Trigonox 17/40	10.00
	230.10

Number of Passes/Temperatures:
Single pass mixed to 240°F; add Triallyisocyanurate, Triganox 17/40 at 200°F.

Compound #22: Emulsion SBR (SBR 1502)

Non–Productive Recipe:

SBR 1502	100.00
N330 Carbon Black	58.50
Zinc Oxide	10.00
Stearic Acid	2.00
Agerite Resin D (Naugard Q)	2.00
Flexone 7P	1.00
Sunproof Super Wax	1.50
Sundex 790 Oil	7.00
	182.00

Productive Recipe:

Non–Productive	182.00
Rubber Makers Sulfur	2.00
TBBS	1.80
	185.80

Number of Passes/Temperatures:
Non–productive pass mixed to 330°F,
Second pass mixed to 220°F.

RUBBER COMPOUND RECIPES

Compound #23: Epichlorohydrin (ECO)

Recipe:

Hydrin 2000	100.00
N330 Carbon Black	50.00
Stearic Acid	1.00
Vulkanox MB−2/MG/C	1.00
Calcium Carbonate	5.00
Zisnet F−PT	1.00
Diphenylguanadine	0.50
Santogard PVI	0.50
	159.00

Number of Passes/Temperatures:
1 Pass at 240°F

Compound #24: Oil−Extended SBR (SBR 1712)*

SBR 1712	137.50
	137.50

Compound #25: Emulsion SBR (SBR 1500)*

SBR 1500	100.00
	100.00

Compound #26: Solution SBR (Duradene 707)*

Duradene 707	100.00
	100.00

* – Compounds 24, 25, and 26 were mixes of polymer only, with no fillers or cure system.

Section A.4

Tire Designations

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TIRE DESIGNATION SUMMARY

TIRE DESIGNATION	MOLD SIZE	ORIGINAL EQUIPMENT (OEM)	HIGH PERFORMANCE	REPLACEMENT
A	195/75	X		
B	195/75			X
C	195/75			X
D	195/75	X		
E	205/70		X	
F	205/70	X		
G	205/70		X	
H	205/70		X	
I	195/75			X

SECTION B

INTERNAL MIXING AND MILLING

B.1 Small Mixer No. 2
B.2 Small Mixer No. 1 and Large Mixer No. 1
B.3 Internal Mixer Control Device

Section B.1

Small Mixer No. 2

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Section B.1

Small Mixer No. 2

Table Number	Title	No. of Pages
B.1-1	Small Mixer 2 Summary Table	2
B.1-2	Small Mixer 2 Speciated Semivolatiles Summary	12
B.1-3	Small Mixer 2 Speciated Volatiles Summary	30
B.1-4	Small Mixer 2 Sulfur Summary	6
B.1-5	Small Mixer 2 Metals Summary	2
B.1-6	Small Mixer 2 POM Summary	2
B.1-7	Small Mixer 2 Particulate Matter Summary	2

TABLE B.1-1
SMALL MIXER 2 SUMMARY TABLE

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
# of Passes per Batch	1	2	4	1	1	3	3	2	2	2	1	2	2
# of Batches per Run	5	5	2	5	5	3	3	4	4	4	5	5	4
Total Rubber (lbs/hr)*	7.11	5.94	2.91	6.93	8.08	4.50	3.63	6.45	5.43	7.06	13.96	8.20	7.77
Total VOC (ppm/run)	2.9	1.3	2.3	1.7	11.5	1.1	2.80	0.6	1.0	13	2.9	0.8	11.2
Total VOC (lbs/hr)	4.34E-04	2.29E-04	3.98E-04	2.67E-04	1.74E-03	1.78E-04	4.36E-04	1.00E-04	1.54E-04	2.04E-03	4.50E-04	1.31E-04	1.77E-03
Total VOC (lbs/lb rubber)	6.11E-05	3.86E-05	1.37E-04	3.86E-05	2.15E-04	3.96E-05	1.20E-04	1.55E-05	2.84E-05	2.90E-04	3.22E-05	1.59E-05	2.28E-04
Standard Deviation (lbs/lb rubber)	4.18E-05	2.37E-05	1.18E-04	3.64E-05	2.03E-04	2.41E-05	1.27E-04	1.04E-05	2.40E-05	5.89E-04	1.93E-05	1.21E-05	1.76E-04
Total Speciated Semi Vol (µg/m³) Detected	79.11	122.42	89.51	120.62	2766.56	136.24	31.63	28.33	114.37	175.11	1696.31	107.96	221.61
Total Speciated Semi Vol (lbs/hr) Detected	6.52E-06	1.19E-05	8.38E-06	1.04E-05	2.28E-04	1.17E-05	2.73E-06	2.44E-06	9.85E-06	1.51E-05	1.46E-04	9.30E-06	1.91E-05
Total Speciated Semi Vol (lbs/lb rubber) Detected	9.17E-07	2.01E-06	2.88E-06	1.50E-06	2.82E-05	2.61E-06	7.51E-07	3.78E-07	1.81E-06	2.14E-06	1.05E-05	1.13E-06	2.46E-06
Total Speciated Semi Vol (lbs/lb rubber) w/Non-detects	< 1.93E-06	< 2.56E-06	< 5.10E-06	< 2.09E-06	< 2.91E-05	< 3.56E-06	< 2.41E-06	< 1.07E-06	< 2.51E-06	< 2.67E-06	< 1.09E-05	< 1.59E-06	< 2.99E-06
Total Speciated Volatiles (µg/m³) Detected	4411.3	3402.8	2750.2	4269.7	3218.3	4923.5	3715.7	4006.8	3496.2	23062.8	4047.0	5737.7	13663.5
Total Speciated Volatiles (lbs/hr) Detected	3.64E-04	3.31E-04	2.58E-04	3.68E-04	2.65E-04	4.24E-04	3.20E-04	3.45E-04	3.01E-04	1.99E-03	3.49E-04	4.94E-04	1.18E-03
Total Speciated Volatiles (lbs/lb rubber) Detected	5.11E-05	5.58E-05	8.85E-05	5.31E-05	3.28E-05	9.43E-05	8.82E-05	5.35E-05	5.55E-05	2.81E-04	2.50E-05	6.03E-05	1.52E-04
Total Speciated Volatiles (lbs/lb rubber) w/Non-detects	< 7.88E-05	< 6.35E-05	< 1.04E-04	< 5.89E-05	< 4.45E-05	< 1.21E-04	< 1.16E-04	< 5.93E-05	< 6.28E-05	< 3.10E-05	< 3.12E-05	< 6.54E-05	< 1.60E-04
Total Sulfur (µg/m³) Detected	ND	ND	ND	ND	77.5	178	ND	3500	113.8	1840	1130	3244	52.8
Total Sulfur (lbs/hr) Detected	ND	ND	ND	ND	6.39E-06	1.53E-05	ND	3.02E-04	9.80E-06	1.59E-04	9.74E-05	2.79E-04	4.55E-06
Total Sulfur (lbs/lb rubber) Detected	ND	ND	ND	ND	7.90E-07	3.41E-06	ND	4.68E-05	1.81E-06	2.25E-05	6.97E-06	3.41E-05	5.85E-07
Total Sulfur (lbs/lb rubber) with non-detects	< 5.53E-06	< 3.90E-06	< 7.65E-06	< 2.95E-06	< 3.04E-06	< 7.65E-06	< 5.64E-06	< 7.64E-06	< 5.32E-06	< 2.81E-05	< 9.84E-06	< 5.74E-05	< 3.11E-06
Total Metals (µg/m³) Detected	1035.16	2592.76	4030.76	1965.56	3234.12	430.07	1489.24	612.79	150.77	1995.74	2777.51	1760.78	726.97
Total Metals (lbs/hr) Detected	8.53E-05	2.53E-04	3.77E-04	1.69E-04	2.67E-04	3.71E-05	1.28E-04	5.28E-05	1.30E-05	1.72E-04	2.39E-04	1.52E-04	6.26E-05
Total Metals (lbs/lb rubber) Detected	1.20E-05	4.25E-05	1.30E-04	2.44E-05	3.30E-05	8.23E-06	3.53E-05	8.19E-06	2.39E-06	2.44E-05	1.71E-05	1.85E-05	8.06E-06
Total Metals (lbs/lb rubber) with non-detects	1.20E-05	< 4.25E-05	1.30E-04	2.44E-05	3.30E-05	< 8.28E-06	< 3.54E-05	8.19E-06	< 2.42E-06	2.44E-05	< 1.72E-05	1.85E-05	8.06E-06
POM (mg/m³) Detected	ND	1.799	2.789	3.653	3.167	2.132	0.083	0.599	0.448	ND	0.949	0.564	1.021
POM (lbs/hr) Detected	ND	1.75E-04	2.61E-04	3.15E-04	2.61E-04	1.84E-04	7.18E-06	5.16E-05	3.86E-05	ND	8.18E-05	4.86E-05	8.80E-05
POM (lbs/lb rubber) Detected	ND	2.95E-05	8.98E-05	4.54E-05	3.23E-05	4.09E-05	1.98E-06	8.00E-06	7.10E-06	ND	5.86E-06	5.93E-06	1.13E-05
PM (mg/m³) Detected	15.13	24.85	27.93	24.50	91.35	20.54	23.95	16.31	3.04	28.87	12.86	17.05	21.74
PM (lbs/hr) Detected	1.25E-03	2.39E-03	2.61E-03	2.08E-03	7.47E-03	1.80E-03	2.05E-03	1.43E-03	2.67E-04	2.53E-03	1.09E-03	1.50E-03	1.91E-03
PM (lbs/lb rubber) Detected	1.75E-04	4.02E-04	8.99E-04	3.00E-04	9.25E-04	4.00E-04	5.66E-04	2.22E-04	4.92E-05	3.58E-04	7.82E-05	1.83E-04	2.46E-04

* - Productive only

ND - Not Detected

TRC

TABLE B.1-1
SMALL MIXER 2 SUMMARY TABLE

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
# of Passes per Batch	2	1	1	1	2	1	2	1	2	1	1	1	1
# of Batches per Run	4	5	5	5	4	5	5	5	5	6	5	5	6
Total Rubber (lbs/hr)*	6.97	11.27	18.60	7.29	7.54	11.35	6.85	14.03	6.86	15.59	8.20	8.97	8.43
Total VOC (ppm/run)	9.7	0.7	8.5	20.5	3.1	1.9	0.3	13.9	4.9	2.9	5.4	18.2	1.4
Total VOC (lbs/hr)	1.60E-03	1.09E-04	1.52E-03	3.23E-03	4.89E-04	3.07E-04	5.63E-05	2.19E-03	8.44E-04	6.26E-04	3.36E-04	1.14E-03	9.26E-05
Total VOC (lbs/lb rubber)	2.30E-04	9.69E-06	8.18E-05	4.43E-04	6.48E-05	2.70E-05	8.22E-06	1.56E-04	1.23E-04	4.02E-05	4.10E-05	1.27E-04	1.10E-05
Standard Deviation (lbs/lb rubber)	1.27E-04	6.52E-06	7.92E-05	4.46E-04	3.56E-05	2.31E-05	6.37E-06	1.91E-04	9.47E-05	3.47E-05	2.94E-05	8.94E-05	6.74E-06
Total Speciated Semi Vol (µg/m³) Detected	78.97	228.35	114.77	177.05	56.15	49.06	57.59	270.95	163.00	411.03	128.04	184.47	22.23
Total Speciated Semi Vol (lbs/hr) Detected	7.10E-06	1.88E-05	1.12E-05	1.53E-05	4.64E-06	4.41E-06	5.39E-06	2.33E-06	1.53E-05	3.70E-05	1.20E-05	1.73E-05	2.25E-06
Total Speciated Semi Vol (lbs/lb rubber) Detected	1.02E-06	1.67E-06	6.01E-07	2.09E-06	6.42E-07	3.89E-07	7.87E-07	1.66E-06	2.23E-06	2.37E-06	1.46E-06	1.93E-06	2.67E-07
Total Speciated Semi Vol (lbs/lb rubber) w/Non-detects	< 1.85E-06	< 2.12E-06	< 1.05E-06	< 3.81E-06	< 1.38E-06	< 9.06E-07	< 1.84E-06	< 2.13E-06	< 2.67E-06	< 2.85E-06	< 1.69E-06	< 2.25E-06	< 5.20E-07
Total Speciated Volatiles (µg/m³) Detected	10876.1	7908.9	5686.3	25103.1	10794.1	2447.3	838.0	21608.1	6175.8	5232.2	3060.3	7961.6	1398.3
Total Speciated Volatiles (lbs/hr) Detected	9.78E-04	6.52E-04	5.54E-04	2.16E-03	9.30E-04	2.20E-04	7.85E-05	1.86E-03	5.78E-04	4.70E-04	2.87E-04	7.46E-04	1.41E-04
Total Speciated Volatiles (lbs/lb rubber) Detected	1.40E-04	5.78E-05	2.98E-05	2.97E-04	1.23E-04	1.94E-05	1.15E-05	1.33E-04	8.43E-05	3.02E-05	3.50E-05	8.31E-05	1.68E-05
Total Speciated Volatiles (lbs/lb rubber) w/Non-detects	< 1.45E-04	< 6.10E-05	< 3.48E-05	< 3.16E-04	< 1.34E-04	< 2.31E-05	< 1.78E-05	< 1.38E-04	< 9.00E-05	< 5.91E-05	< 4.06E-05	< 8.80E-05	< 2.28E-05
Total Sulfur (µg/m³) Detected	1093	387.9	ND	ND	1965	21.3	133.8	57.3	ND	557.3	23.1	29.5	ND
Total Sulfur (lbs/hr) Detected	9.83E-05	3.20E-05	ND	ND	1.69E-04	1.91E-06	1.25E-05	4.94E-06	ND	5.01E-05	2.16E-06	2.76E-06	ND
Total Sulfur (lbs/lb rubber) Detected	1.41E-05	2.84E-06	ND	ND	2.25E-05	1.69E-07	1.83E-06	3.52E-07	ND	3.21E-06	2.64E-07	3.08E-07	ND
Total Sulfur (lbs/lb rubber) with non-detects	< 1.70E-05	< 4.46E-06	< 2.50E-06	< 5.64E-06	< 7.56E-05	< 1.97E-06	< 4.86E-06	< 3.16E-06	< 3.24E-06	< 4.49E-06	< 2.91E-06	< 2.72E-06	< 2.85E-06
Total Metals (µg/m³) Detected	850.69	621.12	2169.72	142.97	1174.22	130.27	84.15	1508.22	5320.3	793.1	53.51	27.16	15.82
Total Metals (lbs/hr) Detected	7.33E-05	5.12E-05	2.11E-04	1.23E-05	1.01E-04	1.17E-05	7.88E-06	1.30E-04	4.98E-04	6.83E-05	5.01E-06	2.54E-06	1.60E-06
Total Metals (lbs/lb rubber) Detected	1.05E-05	4.54E-06	1.14E-05	1.69E-06	1.34E-05	1.03E-06	1.15E-06	9.26E-06	7.26E-05	4.38E-06	6.11E-07	2.84E-07	1.90E-07
Total Metals (lbs/lb rubber) with non-detects	< 1.05E-05	4.54E-06	< 1.14E-05	1.69E-06	< 1.34E-05	< 1.04E-06	< 1.17E-06	< 9.28E-06	< 7.27E-05	4.38E-06	< 6.59E-07	< 3.16E-07	< 2.18E-07
POM (mg/m³) Detected	4.517	2.868	0.519	0.561	0.292	0.462	2.195	4.727	2.615	2.036	1.749	0.316	0.141
POM (lbs/hr) Detected	4.06E-04	2.36E-04	5.06E-05	4.83E-05	2.61E-05	4.15E-05	2.06E-04	4.07E-04	2.45E-04	1.83E-04	1.64E-04	2.96E-05	1.42E-05
POM (lbs/lb rubber) Detected	5.83E-05	2.10E-05	2.72E-06	6.63E-06	3.33E-06	3.66E-06	3.00E-05	2.90E-05	3.57E-05	1.17E-05	2.00E-05	3.30E-06	1.69E-06
PM (mg/m³) Detected	10.45	19.51	61.22	7.65	17.04	8.83	57.16	11.98	33.08	60.12	1.34	1.92	0.61
PM (lbs/hr) Detected	9.04E-04	1.61E-03	5.89E-03	6.53E-04	1.44E-03	7.82E-04	5.37E-03	1.05E-03	3.08E-03	5.29E-03	1.28E-04	1.83E-04	6.21E-05
PM (lbs/lb rubber) Detected	1.30E-04	1.42E-04	3.17E-04	8.96E-05	1.92E-04	6.89E-05	7.84E-04	7.50E-05	4.49E-04	3.39E-04	1.56E-05	2.04E-05	7.37E-06

* - Productive only

ND - Not Detected

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS	COMPOUND												
	Numbers	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Sandwl (µg/m³)														
Pyridine	110-86-1	< 0.97	< 0.33	< 0.87	< 0.50	< 1.03	< 0.65	< 0.74	< 0.57	< 0.43	< 0.57	< 0.90	< 0.45	< 0.55
Phenol	108-95-2	6.22	2.99	8.61	1.18	74.57	2.31	1.01	2.39	3.75	0.99	1.49	2.59	3.79
bis(2-Chloroethyl)ether	111-44-4	< 0.80	< 0.32	< 0.58	< 0.40	< 0.86	< 0.62	< 0.61	< 0.53	< 0.39	< 0.54	< 0.87	< 0.41	< 0.53
2-Chlorophenol	95-57-8	< 0.56	< 0.25	< 0.38	< 0.25	< 0.59	< 0.48	< 0.42	< 0.43	< 0.32	< 0.42	< 0.68	< 0.34	< 0.41
1,3-Dichlorobenzene	541-73-1	< 0.51	< 0.22	< 0.36	< 0.23	< 0.54	< 0.40	< 0.39	< 0.37	< 0.28	< 0.35	< 0.56	< 0.29	< 0.34
1,4-Dichlorobenzene	106-46-7	< 0.49	< 0.22	0.09	0.06	0.15	0.06	0.08	0.34	< 0.28	0.05	0.24	0.31	< 0.35
1,2-Dichlorobenzene	95-50-1	< 0.53	< 0.24	< 0.37	< 0.24	0.07	< 0.44	< 0.40	< 0.40	< 0.30	< 0.39	< 0.62	< 0.31	< 0.37
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.88	< 0.27	< 0.42	< 0.48	< 0.94	< 0.52	< 0.67	< 0.45	< 0.34	< 0.46	< 0.73	< 0.36	< 0.45
Benzyl alcohol	100-51-6	0.81	0.78	0.67	0.40	1.56	2.04	0.84	2.39	1.52	2.32	0.52	2.02	< 0.72
2-Methylphenol	95-48-7	< 0.72	< 0.34	2.68	0.07	1.27	0.31	< 0.54	< 0.55	< 0.41	< 0.54	< 0.85	< 0.43	< 0.52
3/4-Methylphenol	108-39-4/106-44-5	0.87	< 0.31	7.37	< 0.33	10.87	< 0.59	< 0.52	< 0.51	< 0.39	0.13	< 0.82	< 0.41	< 0.50
N-Nitroso-di-n-propylamine	621-64-7	< 1.14	< 0.47	< 0.80	< 0.53	< 1.21	< 0.90	< 0.86	< 0.80	< 0.60	< 0.79	< 1.26	< 0.63	< 0.77
Hexachloroethane	67-72-1	< 1.11	< 0.53	< 0.76	< 0.49	< 1.18	< 0.90	< 0.84	< 0.82	< 0.61	< 0.80	< 1.26	< 0.65	< 0.77
Nitrobenzene	98-95-3	< 0.67	< 0.29	< 0.44	< 0.33	< 0.71	< 0.51	< 0.52	< 0.43	< 0.35	< 0.48	3.27	< 0.37	< 0.46
Isophorone	78-59-1	< 0.36	40.45	< 0.25	4.77	< 0.38	< 0.29	< 0.28	< 0.24	< 0.19	< 0.27	< 0.43	< 0.20	< 0.26
2-Nitrophenol	88-75-5	< 0.93	< 0.49	< 0.60	< 0.47	< 0.98	< 0.90	< 0.71	< 0.75	< 0.61	< 0.84	< 1.35	< 0.64	< 0.80
2,4-Dimethylphenol	105-67-9	< 0.64	< 0.32	4.33	< 0.31	< 0.67	1.29	< 0.49	< 0.49	< 0.40	< 0.53	< 0.85	< 0.41	< 0.51
bis(2-Chloroethoxy)methane	111-91-1	< 0.67	< 0.27	< 0.44	< 0.34	< 0.70	< 0.48	< 0.51	< 0.39	< 0.32	< 0.44	< 0.71	< 0.34	< 0.43
Benzoic acid	65-85-0	35.25	< 0.74	< 0.89	3.11	38.60	16.09	7.92	< 1.11	< 0.91	8.91	2.48	< 0.94	21.36
2,4-Dichlorophenol	120-83-2	< 0.73	< 0.33	< 0.45	< 0.33	< 0.77	< 0.57	< 0.56	< 0.48	< 0.39	< 0.53	< 0.85	< 0.41	< 0.51
1,2,4-Trichlorobenzene	120-82-1	< 0.64	< 0.28	< 0.39	< 0.29	< 0.67	< 0.50	< 0.49	< 0.42	< 0.34	< 0.47	< 0.75	< 0.36	< 0.45
Naphthalene	91-20-3	2.16	2.03	9.58	1.39	24.67	2.67	1.82	2.04	1.76	0.67	1.44	2.87	1.03
4-Chloroaniline	106-47-8	< 0.51	< 0.25	< 0.36	0.48	< 0.54	< 0.41	< 0.39	< 0.37	< 0.30	< 0.39	< 0.62	< 0.31	< 0.37
Hexachlorobutadiene	87-68-3	< 1.00	< 0.47	< 0.56	< 0.44	< 1.05	< 0.80	< 0.76	< 0.71	< 0.58	< 0.74	< 1.19	< 0.60	< 0.71
4-Chloro-3-methylphenol	59-50-7	< 0.74	< 0.37	< 0.51	< 0.38	< 0.79	< 0.63	< 0.57	< 0.54	< 0.44	< 0.59	< 0.94	< 0.46	< 0.56
2-Methylnaphthalene	91-57-6	1.52	1.58	2.44	0.63	0.51	0.71	0.54	0.46	0.48	0.25	0.11	1.38	0.13
Hexachlorocyclopentadiene	77-47-4	< 0.81	< 0.60	< 0.74	< 0.44	< 0.89	< 1.10	< 0.60	< 1.05	< 0.93	< 1.06	< 1.72	< 0.97	< 1.03
2,4,6-Trichlorophenol	88-06-2	< 0.87	< 0.45	< 0.59	< 0.45	< 0.95	< 0.73	< 0.64	< 0.59	< 0.52	< 0.70	< 1.14	< 0.54	< 0.68
2,4,5-Trichlorophenol	95-95-4	< 0.86	< 0.43	< 0.60	< 0.46	< 0.95	< 0.72	< 0.63	< 0.56	< 0.50	< 0.69	< 1.13	< 0.52	< 0.67
2-Chloronaphthalene	91-58-7	< 0.29	< 0.16	< 0.21	< 0.15	< 0.32	< 0.26	< 0.21	< 0.21	< 0.19	< 0.25	< 0.41	< 0.20	< 0.25
2-Nitroaniline	88-74-4	< 1.24	< 0.60	< 0.80	< 0.70	< 1.36	< 0.95	< 0.92	< 0.72	< 0.64	< 0.91	< 1.47	< 0.67	< 0.88
Dimethylphthalate	131-11-3	< 0.25	< 0.14	0.49	0.13	< 0.27	< 0.22	< 0.18	< 0.18	< 0.16	< 0.21	< 0.34	< 0.17	< 0.20
2,6-Dinitrotoluene	606-20-2	< 1.02	< 0.55	< 0.85	< 0.57	< 1.13	< 0.91	< 0.75	< 0.71	< 0.63	< 0.87	< 1.41	< 0.66	< 0.85
2,4-Dinitrotoluene	121-14-2	< 0.82	< 0.42	< 0.60	< 0.44	< 0.90	< 0.64	< 0.60	< 0.45	< 0.40	< 0.61	< 1.00	< 0.42	< 0.60
Acenaphthylene	208-96-8	< 0.18	0.22	1.97	0.32	4.01	0.15	0.20	0.12	0.09	< 0.15	< 0.24	< 0.12	< 0.13
3-Nitroaniline	99-09-2	< 1.04	< 0.57	< 0.87	< 0.57	< 1.14	< 0.83	< 0.76	< 0.57	< 0.51	< 0.80	< 1.29	< 0.53	< 0.78
Acenaphthene	83-32-9	< 0.27	< 0.18	< 0.22	< 0.16	< 0.30	< 0.28	< 0.20	< 0.22	< 0.20	< 0.27	< 0.44	< 0.21	< 0.26
2,4-Dinitrophenol	105-67-9	< 2.56	< 1.76	< 2.33	< 2.27	< 2.82	< 2.52	< 1.89	< 2.20	< 1.95	< 2.42	< 3.92	< 2.05	< 2.35
4-Nitrophenol	100-02-7	< 2.16	< 1.33	< 1.82	< 1.15	< 2.37	< 1.70	< 1.59	< 1.40	< 1.24	< 1.62	< 2.64	< 1.30	< 1.58
Dibenzofuran	132-64-9	< 0.19	0.13	1.06	0.11	< 0.21	0.17	< 0.14	< 0.14	< 0.13	< 0.17	< 0.29	< 0.13	< 0.17
Diethylphthalate	84-66-2	0.62	0.64	0.68	0.00	0.06	0.44	0.00	0.56	0.39	0.11	0.00	0.53	0.45
4-Chlorophenyl-phenylether	70005-72-3	< 0.52	< 0.32	< 0.32	< 0.26	< 0.57	< 0.50	< 0.38	< 0.39	< 0.35	< 0.48	< 0.78	< 0.36	< 0.47
Fluorene	86-73-7	0.05	0.18	0.33	0.14	0.08	0.24	< 0.19	< 0.18	< 0.17	< 0.23	< 0.37	< 0.17	0.24
4-Nitroaniline	100-01-6	< 1.12	< 0.55	< 0.95	< 0.62	< 1.23	< 0.71	< 0.82	< 0.53	< 0.47	< 0.68	< 1.10	< 0.49	< 0.66
4,6-Dinitro-2-methylphenol	534-52-1	< 1.94	< 0.81	< 1.47	< 1.72	< 2.03	< 1.37	< 1.45	< 1.15	< 1.04	< 1.25	< 2.00	< 0.98	< 1.19
N-Nitrosodiphenylamine	86-30-6		0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00
4-Bromophenyl-phenylether	101-55-3	< 1.14	< 0.50	0.14	< 0.53	< 1.20	< 0.79	< 0.86	< 0.68	< 0.61	< 0.72	< 1.16	< 0.58	< 0.69
Hexachlorobenzene	118-74-1	< 0.91	< 0.40	0.29	< 0.41	< 0.95	< 0.60	< 0.68	< 0.53	< 0.47	< 0.55	< 0.88	< 0.45	< 0.53
Pentachlorophenol	87-86-5	< 1.61	< 0.56	< 1.14	< 1.15	< 1.68	< 0.98	< 1.20	< 0.85	< 0.76	< 0.89	< 1.43	< 0.72	0.41
Phenanthrene	85-01-8	1.14	0.49	0.61	0.35	0.64	0.66	0.35	0.72	0.82	0.28	0.25	0.72	0.24
Anthracene	120-12-7	< 0.26	< 0.10	0.23	< 0.12	< 0.27	< 0.15	< 0.19	< 0.12	< 0.11	< 0.14	< 0.23	< 0.10	< 0.13
Di-n-butylphthalate	84-74-2	6.90	0.98	1.71	0.00	0.00	0.78	0.00	0.56	0.08	1.21	0.00	0.57	30.11
Fluoranthene	206-44-0	1.27	< 0.08	0.28	< 0.13	0.32	< 0.11	0.16	0.30	0.34	0.05	0.05	0.43	0.08
Pyrene	129-00-0	3.06	0.32	0.96	0.42	3.22	0.44	1.22	0.94	1.21	0.00	0.35	1.52	0.13
Butylbenzylphthalate	85-68-7	0.56	0.28	1.01	< 0.34	< 0.84	0.00	< 0.63	0.18	0.21	0.00	0.00	0.25	0.21
3,3'-Dichlorobenzidine	91-94-1	< 1.78	< 0.22	< 2.21	< 0.81	< 2.17	< 0.26	< 1.64	< 0.24	< 0.24	< 0.24	< 0.48	< 0.19	< 0.32
bis(2-Ethylhexyl)phthalate	117-81-7	3.37	1.84	3.70	0.00	2.24	9.33	1.41	0.00	0.45	< 0.11	43.63	0.85	66.71
Benzo(a)anthracene	56-55-3	< 0.55	< 0.07	0.29	< 0.26	< 0.66	< 0.10	< 0.50	< 0.09	< 0.09	< 0.09	< 0.18	< 0.07	< 0.13

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TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS	COMPOUND												
	Numbers	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Semivol (µg/m³)														
Chrysene	218-01-9	< 0.62	< 0.08	0.38	< 0.28	< 0.75	0.00	< 0.56	< 0.09	< 0.09	< 0.10	0.08	< 0.08	0.00
Di-n-octylphthalate	117-84-0	0.37	< 0.04	< 0.35	< 0.20	0.30	< 0.06	< 0.43	< 0.04	< 0.05	< 0.06	< 0.11	< 0.04	< 0.07
Benzo(b)fluoranthene	205-99-2	< 0.79	< 0.06	< 0.68	< 0.33	< 0.87	< 0.09	< 0.72	< 0.07	< 0.07	< 0.09	< 0.17	< 0.06	0.06
Benzo(k)fluoranthene	207-08-9	< 0.82	< 0.06	< 0.72	< 0.34	< 0.91	< 0.09	< 0.75	< 0.08	< 0.08	< 0.09	< 0.17	< 0.07	0.05
Benzo(a)pyrene	50-32-8	< 0.92	< 0.07	< 0.85	< 0.38	< 1.02	< 0.09	< 0.85	< 0.08	< 0.08	< 0.09	< 0.17	< 0.07	< 0.11
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.17	< 0.06	< 1.19	< 0.49	< 1.30	< 0.08	< 1.08	< 0.08	< 0.08	< 0.08	< 0.16	< 0.06	< 0.10
Dibenz(a,h)anthracene	53-90-3	< 1.49	< 0.08	< 1.60	< 0.65	< 1.65	< 0.10	< 1.38	< 0.10	< 0.10	< 0.11	< 0.21	< 0.08	< 0.13
Benzo(g,h,i)perylene	191-24-2	1.33	< 0.07	< 1.49	< 0.60	< 1.57	< 0.09	< 1.30	< 0.08	< 0.09	< 0.09	< 0.17	0.42	< 0.11
n-Nitrosodimethylamine	62-75-9	0.00	< 0.48	< 1.40	0.00	0.00	< 1.00	0.00	< 0.82	< 0.61	< 0.89	< 1.41	< 0.65	< 0.86
Cumene	98-82-8	0.25	< 0.12	0.12	0.13	0.14	0.63	1.16	< 0.21	< 0.16	1.37	0.43	2.10	0.25
Aniline	62-53-3	< 0.49	29.30	< 0.40	34.57	< 0.52	3.21	< 0.38	0.58	0.32	0.39	3.87	< 0.24	< 0.32
Benzyl Chloride	100-44-7	< 0.37	< 0.17	< 0.29	< 0.21	< 0.39	< 0.32	< 0.28	< 0.29	< 0.22	< 0.28	< 0.46	< 0.23	< 0.28
Acetophenone	98-86-2	3.66	1.30	1.60	0.30	1.82	4.00	5.20	0.97	92.83	6.93	37.10	32.81	4.70
n-Nitrosomorpholine	59-89-2	< 1.00	< 0.46	< 0.65	< 0.59	< 1.06	< 0.88	< 0.76	< 0.75	< 0.56	< 0.78	< 1.23	< 0.59	< 0.75
o-Toluidine	95-53-4	< 0.42	< 0.22	< 0.36	< 0.25	< 0.44	11.66	< 0.31	< 0.36	< 0.27	< 0.38	< 0.60	7.84	< 0.37
N,N-Dimethylaniline	121-69-7	< 0.39	< 0.21	< 0.28	< 0.23	< 0.41	< 0.36	< 0.30	< 0.30	< 0.25	< 0.34	< 0.54	< 0.26	< 0.33
1,2-Dibromo-3-chloropropane	96-12-8	< 1.07	< 0.50	< 0.94	< 0.62	< 1.14	< 0.95	< 0.81	< 0.82	< 0.61	< 0.83	< 1.32	< 0.65	< 0.81
o-Anisidine	90-04-0	< 0.79	< 0.37	< 0.53	< 0.49	< 0.83	< 0.65	< 0.61	< 0.55	< 0.45	< 0.61	< 0.98	< 0.46	< 0.58
1,4-Phenylenediamine	106-50-3	< 1.37	< 0.57	< 1.14	< 1.01	< 1.43	< 0.90	< 1.04	< 1.02	< 0.84	< 0.84	< 1.35	< 0.87	< 0.80
N,N-Diethylaniline	91-66-7	3.48	< 0.16	< 0.24	< 0.16	< 0.31	< 0.30	< 0.22	< 0.26	< 0.20	< 0.26	< 0.42	< 0.21	< 0.26
a,a,a-Trichlorotoluene	98-07-7	< 0.44	< 0.23	< 0.30	< 0.25	< 0.46	< 0.41	< 0.33	< 0.34	< 0.28	< 0.38	< 0.61	< 0.29	< 0.36
Hydroquinone	123-31-9	< 0.92	< 0.56	< 0.66	65.12	2573.47	< 0.72	< 0.71	< 0.74	< 0.61	< 0.67	< 1.07	< 0.63	< 0.64
2-Chloroacetophenone	1341-24-8	< 0.30	< 0.17	< 0.21	< 0.18	< 0.31	< 0.28	< 0.23	< 0.26	< 0.22	0.04	< 0.42	< 0.22	< 0.25
Biphenyl	92-52-4	< 0.23	< 0.14	1.75	0.44	< 0.25	0.61	< 0.17	< 0.18	< 0.16	< 0.23	< 0.37	< 0.17	< 0.22
Trifluralin	1582-09-8	< 1.06	< 0.76	< 0.98	< 0.76	< 1.17	< 1.06	< 0.78	< 0.96	< 0.85	< 1.02	< 1.65	< 0.89	< 0.99
4-Aminobiphenyl	92-67-1	< 0.36	< 0.14	< 0.23	< 0.23	< 0.37	< 0.20	< 0.27	< 0.17	< 0.15	< 0.18	< 0.30	< 0.14	< 0.18
Pentachloronitrobenzene	82-68-8	< 2.20	< 1.28	< 1.40	< 1.35	< 2.30	< 1.75	< 1.65	< 1.54	< 1.39	< 1.61	< 2.56	< 1.31	< 1.52
4-Nitrobiphenyl	92-93-3	< 0.77	< 0.29	< 0.51	< 0.53	< 0.80	< 0.38	< 0.58	< 0.33	< 0.30	< 0.35	< 0.56	< 0.28	< 0.33
Benzidine	92-87-5	< 0.96	< 0.18	< 0.85	< 0.62	< 1.17	< 0.23	< 0.89	< 0.21	< 0.20	< 0.21	< 0.41	< 0.16	< 0.28
4,4'-Methylenedianiline	101-77-9	< 1.41	< 0.27	< 1.49	< 0.90	< 1.71	< 0.31	< 1.30	< 0.29	< 0.29	< 0.29	< 0.57	< 0.23	< 0.38
Dimethylaminoazobenzene	60-11-7	< 1.25	< 0.20	< 0.89	< 0.77	< 1.31	< 0.26	< 1.15	< 0.25	< 0.25	< 0.24	< 0.47	< 0.20	< 0.32
3,3'-Dimethylbenzidine	119-93-7	< 0.74	< 0.12	< 0.84	< 0.45	< 0.91	< 0.15	< 0.69	< 0.14	< 0.14	< 0.14	< 0.27	< 0.11	< 0.18
3,3'-Dimethoxybenzidine	119-90-4	< 1.90	< 0.37	< 2.80	< 1.27	< 2.30	< 0.37	< 1.74	< 0.35	< 0.35	< 0.34	< 0.68	< 0.28	< 0.46
Methylene bis-chloroaniline	101-14-4	< 2.67	< 0.44	< 3.07	< 1.63	< 3.25	< 0.51	< 2.46	< 0.50	< 0.50	< 0.47	< 0.93	< 0.39	< 0.63
3-Furaldehyde	498-60-2	< 1.04	< 0.47	< 1.09	< 0.54	< 1.11	< 0.97	< 0.79	< 0.81	< 0.60	< 0.85	< 1.35	< 0.64	< 0.83
2-Furaldehyde	98-01-1	0.53	22.65	4.98	< 0.51	3.68	6.33	0.14	0.56	0.17	< 0.73	< 1.16	31.35	< 0.71
Cyclohexylamine	108-91-8	< 0.59	< 0.29	< 1.12	< 0.29	< 0.63	0.07	< 0.45	< 0.44	< 0.33	< 0.42	< 0.66	< 0.34	< 0.40
N-Nitrosodiethylamine	55-18-5	< 1.48	< 0.62	< 1.16	< 0.79	< 1.57	< 1.20	< 1.12	< 1.02	< 0.77	< 1.06	< 1.68	< 0.80	< 1.02
Cyclohexanone	108-94-1	< 1.06	1.68	3.00	2.66	10.94	4.56	8.82	2.12	0.74	1.32	< 0.89	4.21	< 0.54
1,3-Cyclooctadiene	1700-10-3	< 0.73	< 0.32	< 0.56	< 0.36	< 0.79	< 0.62	< 0.56	2.98	< 0.41	2.46	< 0.87	< 0.43	< 0.53
1,5-Cyclooctadiene	111-78-4	< 1.67	< 0.74	< 1.31	< 0.82	< 1.79	< 1.40	< 1.28	< 1.24	< 0.93	0.68	< 1.95	< 0.98	< 1.19
Camphene	79-92-5	< 0.78	< 0.36	< 0.61	< 0.39	< 0.83	0.89	< 0.59	< 0.60	< 0.45	< 0.59	1.92	4.32	< 0.57
Benzaldehyde	100-52-7	1.64	2.96	3.02	0.26	2.37	4.15	< 0.67	1.03	1.08	0.46	1.61	1.76	0.89
Benzonitrile	100-47-0	< 0.39	< 0.16	0.20	< 0.20	0.43	< 0.29	< 0.30	< 0.25	< 0.19	< 0.26	< 0.41	< 0.20	< 0.25
Isooctanol	26952-21-6	< 8.71	9.01	< 7.47	< 4.30	< 9.29	31.50	< 6.62	< 5.39	< 4.04	136.08	1579.29	< 4.24	86.66
1,2,4-Trimethylbenzene	95-63-6	3.77	1.10	1.78	1.24	1.81	2.38	< 0.23	1.52	< 0.21	1.87	1.26	4.43	2.98
3-Methylstyrene	100-80-1	< 0.50	< 0.23	0.29	0.43	< 0.54	< 0.44	< 0.38	< 0.39	< 0.30	< 0.39	< 0.62	< 0.31	< 0.37
4-Methylstyrene	622-97-9	< 0.55	< 0.25	< 0.42	0.40	< 0.59	< 0.47	< 0.42	< 0.41	< 0.30	< 0.42	< 0.66	< 0.32	< 0.40
4-Chlorostyrene	1073-67-2	< 0.56	< 0.26	< 0.42	< 0.28	< 0.60	< 0.49	< 0.42	< 0.44	< 0.33	< 0.43	0.87	< 0.34	< 0.42
1-Dodecene	112-41-4	< 3.23	< 1.44	< 2.34	< 1.69	0.64	< 2.56	< 2.48	< 2.16	< 1.77	5.51	1.59	< 1.84	< 2.29
Phthalimide	85-41-6	< 1.88	< 1.21	21.73	< 1.22	7.65	< 1.46	0.65	< 1.34	< 1.19	0.00	< 2.28	< 1.24	0.06
Diphenylamine	122-39-4	0.28	1.53	1.14	1.50	0.29	26.54	0.13	7.58	8.13	3.04	14.43	4.65	1.07
Total Detected		79.11	122.42	89.51	120.62	2766.56	136.24	31.63	28.33	114.37	175.11	1696.31	107.96	221.61
Total with non-detects		< 166.18	< 155.83	< 158.51	< 167.82	< 2854.28	< 185.76	< 101.63	< 80.25	< 158.16	< 218.51	< 1771.48	< 151.48	< 269.64

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TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS Numbers	COMPOUND #1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Semivol (lb/hr)														
Pyridine	110-86-1	< 7.98E-08	< 3.23E-08	< 8.16E-08	< 4.33E-08	< 8.52E-08	< 5.56E-08	< 6.36E-08	< 4.93E-08	< 3.70E-08	< 4.90E-08	< 7.80E-08	< 3.86E-08	< 4.73E-08
Phenol	108-95-2	5.13E-07	2.91E-07	8.06E-07	1.02E-07	6.15E-06	1.99E-07	8.69E-08	2.06E-07	3.23E-07	8.51E-08	1.28E-07	2.23E-07	3.26E-07
bis(2-Chloroethyl)ether	111-44-4	< 6.58E-08	< 3.12E-08	< 3.45E-08	< 3.47E-08	< 7.06E-08	< 5.32E-08	< 5.25E-08	< 4.55E-08	< 3.40E-08	< 4.69E-08	< 7.47E-08	< 3.57E-08	< 4.57E-08
2-Chlorophenol	95-57-8	< 4.60E-08	< 2.47E-08	< 3.58E-08	< 2.17E-08	< 4.88E-08	< 4.15E-08	< 3.65E-08	< 3.74E-08	< 2.78E-08	< 3.64E-08	< 5.83E-08	< 2.92E-08	< 3.56E-08
1,3-Dichlorobenzene	541-73-1	< 4.19E-08	< 2.17E-08	< 3.37E-08	< 2.02E-08	< 4.45E-08	< 3.45E-08	< 3.34E-08	< 3.16E-08	< 2.38E-08	< 3.05E-08	< 4.85E-08	< 2.49E-08	< 2.93E-08
1,4-Dichlorobenzene	106-46-7	< 4.06E-08	< 2.17E-08	8.32E-09	5.06E-09	1.23E-08	5.48E-09	6.61E-09	2.89E-08	< 2.38E-08	4.20E-09	2.10E-08	2.71E-08	< 3.02E-08
1,2-Dichlorobenzene	95-50-1	< 4.37E-08	< 2.36E-08	< 3.45E-08	< 2.09E-08	6.16E-09	< 3.76E-08	< 3.48E-08	< 3.43E-08	< 2.58E-08	< 3.33E-08	< 5.31E-08	< 2.71E-08	< 3.23E-08
2,2'-oxybis(1-Chloropropane)	108-60-1	< 7.26E-08	< 2.62E-08	< 3.95E-08	< 4.12E-08	< 7.77E-08	< 4.50E-08	< 5.77E-08	< 3.89E-08	< 2.92E-08	< 3.96E-08	< 6.29E-08	< 3.07E-08	< 3.85E-08
Benzyl alcohol	100-51-6	6.67E-09	7.56E-08	6.24E-08	3.47E-08	1.28E-07	1.76E-07	7.20E-08	2.06E-07	1.31E-07	2.00E-07	4.52E-08	1.74E-07	< 6.24E-08
2-Methylphenol	95-48-7	< 5.91E-08	< 3.27E-08	2.51E-07	5.78E-09	1.05E-07	2.70E-08	< 4.69E-08	< 4.74E-08	< 3.53E-08	< 4.62E-08	< 7.34E-08	< 3.72E-08	< 4.48E-08
3/4-Methylphenol	108-39-4/106-44-5	7.17E-08	< 3.04E-08	6.90E-07	< 2.82E-08	8.96E-07	< 5.05E-08	< 4.49E-08	< 4.43E-08	< 3.33E-08	1.09E-08	< 7.08E-08	< 3.50E-08	< 4.31E-08
N-Nitroso-di-n-propylamine	621-64-7	< 9.38E-08	< 4.60E-08	< 7.45E-08	< 4.59E-08	< 9.99E-08	< 7.75E-08	< 7.44E-08	< 6.93E-08	< 5.20E-08	< 6.83E-08	< 1.09E-07	< 5.45E-08	< 6.62E-08
Hexachloroethane	67-72-1	< 9.15E-08	< 5.13E-08	< 7.07E-08	< 4.19E-08	< 9.76E-08	< 7.79E-08	< 7.27E-08	< 7.09E-08	< 5.30E-08	< 6.86E-08	< 1.09E-07	< 5.56E-08	< 6.62E-08
Nitrobenzene	98-95-3	< 5.55E-08	< 2.85E-08	< 4.08E-08	< 2.85E-08	< 5.82E-08	< 4.39E-08	< 4.45E-08	< 3.74E-08	< 3.06E-08	< 4.10E-08	2.82E-07	< 3.18E-08	< 3.94E-08
Isophorone	78-59-1	< 2.98E-08	3.94E-06	< 2.37E-08	4.11E-07	< 3.17E-08	< 2.47E-08	< 2.40E-08	< 2.04E-08	< 1.66E-08	< 2.31E-08	< 3.67E-08	< 1.73E-08	< 2.22E-08
2-Nitrophenol	88-75-5	< 7.66E-08	< 4.79E-08	< 5.58E-08	< 4.08E-08	< 8.10E-08	< 7.75E-08	< 6.15E-08	< 6.47E-08	< 5.30E-08	< 7.21E-08	< 1.16E-07	< 5.49E-08	< 6.91E-08
2,4-Dimethylphenol	105-67-9	< 5.27E-08	< 3.15E-08	4.05E-07	< 2.71E-08	< 5.54E-08	1.11E-07	< 4.24E-08	< 4.20E-08	< 3.43E-08	< 4.59E-08	< 7.34E-08	< 3.54E-08	< 4.40E-08
bis(2-Chloroethoxy)methane	111-91-1	< 5.50E-08	< 2.62E-08	< 4.16E-08	< 2.93E-08	< 5.78E-08	< 4.11E-08	< 4.38E-08	< 3.39E-08	< 2.78E-08	< 3.82E-08	< 6.16E-08	< 2.89E-08	< 3.69E-08
Benzoic acid	65-85-0	2.91E-06	< 7.18E-08	< 8.36E-08	2.68E-07	3.18E-06	1.39E-06	6.82E-07	< 9.55E-08	< 7.81E-08	7.68E-07	2.14E-07	< 8.08E-08	1.84E-06
2,4-Dichlorophenol	120-83-2	< 6.04E-08	< 3.23E-08	< 4.20E-08	< 2.83E-08	< 6.35E-08	< 4.89E-08	< 4.83E-08	< 4.12E-08	< 3.36E-08	< 4.59E-08	< 7.34E-08	< 3.50E-08	< 4.40E-08
1,2,4-Trichlorobenzene	120-82-1	< 5.27E-08	< 2.74E-08	< 3.62E-08	< 2.53E-08	< 5.54E-08	< 4.31E-08	< 4.24E-08	< 3.62E-08	< 2.95E-08	< 4.03E-08	< 6.49E-08	< 3.07E-08	< 3.85E-08
Naphthalene	91-20-3	1.78E-07	1.98E-07	8.97E-07	1.20E-07	2.03E-06	2.30E-07	1.57E-07	1.76E-07	1.51E-07	5.78E-08	1.24E-07	2.48E-07	8.88E-08
4-Chloroaniline	106-47-8	< 4.24E-08	< 2.43E-08	< 3.41E-08	4.12E-08	< 4.45E-08	< 3.56E-08	< 3.37E-08	< 3.20E-08	< 2.61E-08	< 3.33E-08	< 5.31E-08	< 2.71E-08	< 3.18E-08
Hexachlorobutadiene	87-68-3	< 8.20E-08	< 4.60E-08	< 5.24E-08	< 3.79E-08	< 8.67E-08	< 6.89E-08	< 6.57E-08	< 6.09E-08	< 4.99E-08	< 6.41E-08	< 1.03E-07	< 5.16E-08	< 6.16E-08
4-Chloro-3-methylphenol	59-50-7	< 6.13E-08	< 3.61E-08	< 4.78E-08	< 3.25E-08	< 6.49E-08	< 5.40E-08	< 4.94E-08	< 4.66E-08	< 3.80E-08	< 5.04E-08	< 8.06E-08	< 3.97E-08	< 4.82E-08
2-Methylnaphthalene	91-57-6	1.25E-07	1.53E-07	2.28E-07	5.45E-08	4.17E-08	6.15E-08	4.66E-08	3.97E-08	4.18E-08	2.17E-08	9.83E-09	1.19E-07	1.13E-08
Hexachlorocyclopentadiene	77-47-4	< 6.67E-08	< 5.81E-08	< 6.95E-08	< 3.83E-08	< 7.34E-08	< 9.51E-08	< 5.15E-08	< 9.01E-08	< 7.98E-08	< 9.10E-08	< 1.48E-07	< 8.37E-08	< 8.88E-08
2,4,6-Trichlorophenol	88-06-2	< 7.17E-08	< 4.41E-08	< 5.53E-08	< 3.90E-08	< 7.86E-08	< 6.30E-08	< 5.53E-08	< 5.05E-08	< 4.48E-08	< 6.02E-08	< 9.83E-08	< 4.69E-08	< 5.86E-08
2,4,5-Trichlorophenol	95-95-4	< 7.12E-08	< 4.18E-08	< 5.58E-08	< 3.94E-08	< 7.81E-08	< 6.23E-08	< 5.46E-08	< 4.82E-08	< 4.28E-08	< 5.95E-08	< 9.70E-08	< 4.44E-08	< 5.78E-08
2-Chloronaphthalene	91-58-7	< 2.39E-08	< 1.60E-08	< 2.00E-08	< 1.30E-08	< 2.65E-08	< 2.27E-08	< 1.84E-08	< 1.81E-08	< 1.60E-08	< 2.17E-08	< 3.54E-08	< 1.70E-08	< 2.14E-08
2-Nitroaniline	88-74-4	< 1.02E-07	< 5.89E-08	< 7.49E-08	< 6.03E-08	< 1.12E-07	< 8.14E-08	< 7.89E-08	< 6.24E-08	< 5.54E-08	< 7.81E-08	< 1.26E-07	< 5.81E-08	< 7.58E-08
Dimethylphthalate	131-11-3	< 2.03E-08	< 1.37E-08	4.58E-08	1.08E-08	< 2.23E-08	< 1.88E-08	< 1.56E-08	< 1.54E-08	< 1.39E-08	< 1.82E-08	< 2.95E-08	< 1.44E-08	< 1.76E-08
2,6-Dinitrotoluene	606-20-2	< 8.43E-08	< 5.39E-08	< 7.99E-08	< 4.88E-08	< 9.28E-08	< 7.83E-08	< 6.50E-08	< 6.09E-08	< 5.40E-08	< 7.49E-08	< 1.22E-07	< 5.67E-08	< 7.29E-08
2,4-Dinitrotoluene	121-14-2	< 6.72E-08	< 4.10E-08	< 5.58E-08	< 3.83E-08	< 7.39E-08	< 5.52E-08	< 5.18E-08	< 3.89E-08	< 3.43E-08	< 5.29E-08	< 8.58E-08	< 3.61E-08	< 5.15E-08
Acenaphthylene	208-96-8	< 1.49E-08	2.13E-08	1.84E-07	2.78E-08	3.31E-07	1.29E-08	1.70E-08	1.04E-08	8.15E-09	< 1.30E-08	< 2.10E-08	< 1.01E-08	< 1.26E-08
3-Nitroaniline	99-09-2	< 8.57E-08	< 5.55E-08	< 8.16E-08	< 4.91E-08	< 9.38E-08	< 7.16E-08	< 6.57E-08	< 4.93E-08	< 4.38E-08	< 6.86E-08	< 1.11E-07	< 4.58E-08	< 6.70E-08
Acenaphthene	83-32-9	< 2.25E-08	< 1.71E-08	< 2.08E-08	< 1.34E-08	< 2.51E-08	< 2.43E-08	< 1.74E-08	< 1.93E-08	< 1.73E-08	< 2.35E-08	< 3.80E-08	< 1.80E-08	< 2.26E-08
2,4-Dinitrophenol	105-67-9	< 2.11E-07	< 1.71E-07	< 2.18E-07	< 1.96E-07	< 2.32E-07	< 2.17E-07	< 1.63E-07	< 1.90E-07	< 1.68E-07	< 2.08E-07	< 3.38E-07	< 1.76E-07	< 2.03E-07
4-Nitrophenol	100-02-7	< 1.78E-07	< 1.30E-07	< 1.70E-07	< 9.93E-08	< 1.95E-07	< 1.46E-07	< 1.37E-07	< 1.21E-07	< 1.07E-07	< 1.40E-07	< 2.27E-07	< 1.12E-07	< 1.36E-07
Dibenzofuran	132-64-9	< 1.58E-08	1.25E-08	9.94E-08	9.75E-09	< 1.70E-08	1.49E-08	< 1.22E-08	< 1.23E-08	< 1.09E-08	< 1.51E-08	< 2.49E-08	< 1.12E-08	< 1.47E-08
Diethylphthalate	84-66-2	5.09E-08	6.23E-08	6.41E-08	0.00E+00	5.21E-09	3.80E-08	0.00E+00	4.85E-08	3.40E-08	9.10E-09	0.00E+00	4.58E-08	3.90E-08
4-Chlorophenyl-phenylether	70005-72-3	< 4.28E-08	< 3.08E-08	< 3.04E-08	< 2.28E-08	< 4.69E-08	< 4.35E-08	< 3.30E-08	< 3.39E-08	< 2.99E-08	< 4.13E-08	< 6.75E-08	< 3.14E-08	< 4.02E-08
Fluorene	86-73-7	4.51E-09	1.75E-08	3.12E-08	1.19E-08	6.63E-09	2.04E-08	< 1.67E-08	< 1.58E-08	< 1.43E-08	< 1.96E-08	< 3.21E-08	< 1.48E-08	2.09E-08
4-Nitroaniline	100-01-6	< 9.20E-08	< 5.32E-08	< 8.90E-08	< 5.35E-08	< 1.01E-07	< 6.11E-08	< 7.09E-08	< 4.55E-08	< 4.04E-08	< 5.85E-08	< 9.50E-08	< 4.22E-08	< 5.70E-08
4,6-Dinitro-2-methylphenol	534-52-1	< 1.60E-07	< 7.90E-08	< 1.38E-07	< 1.48E-07	< 1.68E-07	< 1.18E-07	< 1.25E-07	< 9.94E-08	< 8.93E-08	< 1.08E-07	< 1.72E-07	< 8.45E-08	< 1.02E-07
N-Nitrosodiphenylamine	86-30-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4-Bromophenyl-phenylether	101-55-3	< 9.42E-08	< 4.86E-08	1.33E-08	< 4.55E-08	< 9.85E-08	< 6.81E-08	< 7.37E-08	< 5.86E-08	< 5.26E-08	< 6.20E-08	< 9.96E-08	< 4.98E-08	< 5.91E-08
Hexachlorobenzene	118-74-1	< 7.48E-08	< 3.91E-08	2.70E-08	< 3.54E-08	< 7.86E-08	< 5.21E-08	< 5.88E-08	< 4.55E-08	< 4.08E-08	< 4.76E-08	< 7.60E-08	< 3.86E-08	< 4.52E-08
Pentachlorophenol	87-86-5	< 1.33E-07	< 5.47E-08	< 1.07E-07	< 9.93E-08	< 1.38E-07	< 8.42E-08	< 1.04E-07	< 7.32E-08	< 6.55E-08	< 7.70E-08	< 1.23E-07	< 6.21E-08	3.52E-08
Phenanthrene	85-01-8	9.42E-08	4.79E-08	5.74E-08	3.03E-08	5.26E-08	5.68E-08	3.02E-08	6.16E-08	7.03E-08	2.42E-08	2.16E-08	6.24E-08	2.05E-08
Anthracene	120-12-7	< 2.12E-08	< 9.50E-09	2.16E-08	< 1.05E-08	< 2.23E-08	< 1.33E-08	< 1.67E-08	< 1.04E-08	< 9.51E-09	< 1.23E-08	< 1.97E-08	< 9.02E-09	< 1.13E-08
Di-n-butylphthalate	84-74-2	5.69E-07	9.57E-08	1.60E-07	0.00E+00	0.00E+00	6.73E-08	0.00E+00	4.82E-08	7.13E-09	1.04E-07	0.00E+00	4.87E-08	2.59E-06
Fluoranthene	206-44-0	1.05E-07	< 7.60E-09	2.62E-08	< 1.08E-08	2.65E-08	< 9.40E-09	1.36E-08	2.54E-08	2.92E-08	4.55E-09	4.59E-09	3.72E-08	6.70E-09
Pyrene	129-00-0	2.52E-07	3.12E-08	8.99E-08	3.65E-08	2.65E-07	3.76E-08	1.05E-07	8.13E-08	1.05E-07	0.00E+00	3.01E-08	1.31E-07	1.09E-08
Butylbenzylphthalate	85-68-7	4.64E-08	2.77E-08	9.49E-08	< 2.89E-08	< 6.91E-08	0.00E+00	< 5.46E-08	1.58E-08	1.80E-08	0.00E+00	0.00E+00	2.17E-08	1.84E-08
3,3'-Dichlorobenzidine	91-94-1	< 1.47E-07	< 2.13E-08	< 2.07E-07	< 6.97E-08	< 1.79E-07	< 2.27E-08	< 1.41E-07	< 2.08E-08	< 2.11E-08	< 2.07E-08	< 4.13E-08	< 1.66E-08	< 2.76E-08
bis(2-Ethylhexyl)phthalate	117-81-7	2.78E-07	1.79E-07	3.46E-07	0.00E+00	1.85E-07	8.04E-07	1.21E-07	0.00E+00	3.84E-08	< 9.10E-09	3.76E-06	7.33E-08	5.75E-06
Benzo(a)anthracene	56-55-3	< 4.51E-08	< 6.84E-09	2.70E-08	< 2.20E-08	< 5.45E-08	< 8.61E-09	< 4.31E-08	< 7.70E-09	< 7.47E-09	< 8.05E-09	< 1.57E-08	< 6.14E-09	< 1.09E-08

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS	COMPOUND												
	Numbers	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Semivol (lb/hr)														
Chrysene	218-01-9	< 5.09E-08	< 7.60E-09	3.58E-08	< 2.42E-08	< 6.16E-08	0.00E+00	< 4.87E-08	< 8.09E-09	< 8.15E-09	< 8.75E-09	7.21E-09	< 6.50E-09	0.00E+00
Di-n-octylphthalate	117-84-0	3.07E-08	< 3.42E-09	< 3.25E-08	< 1.70E-08	2.46E-08	< 5.09E-09	< 3.69E-08	< 3.85E-09	< 4.08E-09	< 4.90E-09	< 9.83E-09	< 3.25E-09	< 6.28E-09
Benzo(b)fluoranthene	205-99-2	< 6.49E-08	< 5.70E-09	< 6.41E-08	< 2.82E-08	< 7.20E-08	< 7.44E-09	< 6.22E-08	< 6.16E-09	< 6.45E-09	< 7.35E-09	< 1.44E-08	< 5.41E-09	5.03E-09
Benzo(k)fluoranthene	207-08-9	< 6.72E-08	< 6.08E-09	< 6.74E-08	< 2.89E-08	< 7.48E-08	< 7.44E-09	< 6.47E-08	< 6.93E-09	< 7.13E-09	< 7.35E-09	< 1.44E-08	< 5.77E-09	4.61E-09
Benzo(a)pyrene	50-32-8	< 7.57E-08	< 6.46E-09	< 7.95E-08	< 3.29E-08	< 8.43E-08	< 7.83E-09	< 7.30E-08	< 6.93E-09	< 7.13E-09	< 7.70E-09	< 1.51E-08	< 5.77E-09	< 9.63E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.65E-08	< 6.08E-09	< 1.11E-07	< 4.26E-08	< 1.07E-07	< 7.05E-09	< 9.28E-08	< 6.55E-09	< 6.79E-09	< 7.00E-09	< 1.38E-08	< 5.41E-09	< 8.80E-09
Dibenz(a,h)anthracene	53-90-3	< 1.23E-07	< 7.98E-09	< 1.49E-07	< 5.63E-08	< 1.36E-07	< 9.01E-09	< 1.19E-07	< 8.47E-09	< 8.49E-09	< 9.10E-09	< 1.77E-08	< 6.86E-09	< 1.13E-08
Benzo(g,h,i)perylene	191-24-2	1.10E-07	< 6.84E-09	< 1.39E-07	< 5.13E-08	< 1.30E-07	< 7.83E-09	< 1.12E-07	< 7.32E-09	< 7.47E-09	< 7.70E-09	< 1.51E-08	3.61E-08	< 9.63E-09
n-Nitrosodimethylamine	62-75-9	0.00E+00	< 4.71E-08	< 1.31E-07	0.00E+00	0.00E+00	< 8.65E-08	0.00E+00	< 7.05E-08	< 5.30E-08	< 7.63E-08	< 1.21E-07	< 5.56E-08	< 7.37E-08
Cumene	98-82-8	2.07E-08	< 1.18E-08	1.17E-08	1.16E-08	1.14E-08	5.44E-08	1.00E-07	< 1.81E-08	< 1.36E-08	1.18E-07	3.73E-08	1.81E-07	2.18E-08
Aniline	62-53-3	< 4.06E-08	2.85E-06	< 3.79E-08	2.98E-06	< 4.31E-08	4.49E-07	< 3.23E-08	4.97E-08	2.78E-08	3.33E-08	3.33E-07	< 2.09E-08	< 2.76E-08
Benzyl Chloride	100-44-7	< 3.02E-08	< 1.63E-08	< 2.75E-08	< 1.81E-08	< 3.22E-08	< 2.78E-08	< 2.40E-08	< 2.47E-08	< 1.87E-08	< 2.45E-08	< 3.93E-08	< 1.95E-08	< 2.39E-08
Acetophenone	98-86-2	3.02E-07	1.27E-07	1.49E-07	2.60E-08	1.50E-07	3.45E-07	4.48E-07	8.32E-08	8.00E-06	5.97E-07	3.20E-06	2.83E-06	4.05E-07
n-Nitrosomorpholine	59-89-2	< 8.20E-08	< 4.52E-08	< 6.12E-08	< 5.06E-08	< 8.76E-08	< 7.60E-08	< 6.54E-08	< 6.47E-08	< 4.82E-08	< 6.69E-08	< 1.06E-07	< 5.09E-08	< 6.45E-08
o-Toluidine	95-53-4	< 3.43E-08	< 2.17E-08	< 3.33E-08	< 2.17E-08	< 3.65E-08	1.00E-06	< 2.71E-08	< 3.12E-08	< 2.31E-08	< 3.26E-08	< 5.18E-08	6.75E-07	< 3.18E-08
N,N-Dimethylaniline	121-69-7	< 3.25E-08	< 2.01E-08	< 2.58E-08	< 2.02E-08	< 3.41E-08	< 3.13E-08	< 2.57E-08	< 2.62E-08	< 2.14E-08	< 2.91E-08	< 4.65E-08	< 2.20E-08	< 2.81E-08
1,2-Dibromo-3-chloropropane	96-12-8	< 8.79E-08	< 4.82E-08	< 8.78E-08	< 5.35E-08	< 9.38E-08	< 8.14E-08	< 6.95E-08	< 7.09E-08	< 5.30E-08	< 7.14E-08	< 1.14E-07	< 5.56E-08	< 6.95E-08
o-Anisidine	90-04-0	< 6.54E-08	< 3.57E-08	< 4.99E-08	< 4.26E-08	< 6.87E-08	< 5.64E-08	< 5.22E-08	< 4.74E-08	< 3.87E-08	< 5.25E-08	< 8.45E-08	< 4.01E-08	< 5.03E-08
1,4-Phenylenediamine	106-50-3	< 1.13E-07	< 5.55E-08	< 1.07E-07	< 8.70E-08	< 1.18E-07	< 7.75E-08	< 8.97E-08	< 8.78E-08	< 7.20E-08	< 7.21E-08	< 1.16E-07	< 7.47E-08	< 6.91E-08
N,N-Diethylaniline	91-66-7	2.87E-07	< 1.56E-08	< 2.29E-08	< 1.41E-08	< 2.56E-08	< 2.58E-08	< 1.91E-08	< 2.27E-08	< 1.70E-08	< 2.28E-08	< 3.60E-08	< 1.40E-08	< 2.22E-08
a,a,a-Trichlorotoluene	98-07-7	< 3.61E-08	< 2.24E-08	< 2.79E-08	< 2.17E-08	< 3.79E-08	< 3.52E-08	< 2.89E-08	< 2.93E-08	< 2.38E-08	< 3.26E-08	< 5.24E-08	< 2.49E-08	< 3.14E-08
Hydroquinone	123-31-9	< 7.62E-08	< 5.43E-08	< 6.20E-08	5.61E-06	2.12E-04	< 6.19E-08	< 6.08E-08	< 6.39E-08	< 5.23E-08	< 5.74E-08	< 9.24E-08	< 5.45E-08	< 5.53E-08
2-Chloroacetophenone	1341-24-8	< 2.43E-08	< 1.63E-08	< 2.00E-08	< 1.55E-08	< 2.56E-08	< 2.43E-08	< 1.95E-08	< 2.27E-08	< 1.87E-08	3.85E-09	< 3.60E-08	< 1.91E-08	< 2.14E-08
Biphenyl	92-52-4	< 1.89E-08	< 1.37E-08	1.64E-07	3.76E-08	< 2.08E-08	5.29E-08	< 1.46E-08	< 1.58E-08	< 1.39E-08	< 1.96E-08	< 3.21E-08	< 1.48E-08	< 1.93E-08
Trifluralin	1582-09-8	< 8.75E-08	< 7.37E-08	< 9.20E-08	< 6.57E-08	< 9.61E-08	< 9.12E-08	< 6.71E-08	< 8.28E-08	< 7.34E-08	< 8.75E-08	< 1.42E-07	< 7.69E-08	< 8.54E-08
4-Aminobiphenyl	92-67-1	< 2.93E-08	< 1.41E-08	< 2.12E-08	< 2.02E-08	< 3.08E-08	< 1.72E-08	< 2.29E-08	< 1.43E-08	< 1.29E-08	< 1.58E-08	< 2.56E-08	< 1.23E-08	< 1.51E-08
Pentachloronitrobenzene	82-68-8	< 1.82E-07	< 1.24E-07	< 1.31E-07	< 1.16E-07	< 1.90E-07	< 1.51E-07	< 1.42E-07	< 1.33E-07	< 1.20E-07	< 1.38E-07	< 2.21E-07	< 1.13E-07	< 1.31E-07
4-Nitrobiphenyl	92-93-3	< 6.36E-08	< 2.81E-08	< 4.78E-08	< 4.59E-08	< 6.63E-08	< 3.25E-08	< 4.97E-08	< 2.85E-08	< 2.58E-08	< 2.98E-08	< 4.78E-08	< 2.42E-08	< 2.81E-08
Benzidine	92-87-5	< 7.93E-08	< 1.75E-08	< 7.99E-08	< 5.38E-08	< 9.66E-08	< 1.96E-08	< 7.65E-08	< 1.77E-08	< 1.77E-08	< 1.79E-08	< 3.54E-08	< 1.41E-08	< 2.39E-08
4,4'-Methylenedianiline	101-77-9	< 1.16E-07	< 2.66E-08	< 1.39E-07	< 7.77E-08	< 1.41E-07	< 2.70E-08	< 1.12E-07	< 2.47E-08	< 2.48E-08	< 2.49E-08	< 4.91E-08	< 1.99E-08	< 3.31E-08
Dimethylaminoazobenzene	60-11-7	< 1.03E-07	< 1.98E-08	< 8.36E-08	< 6.61E-08	< 1.25E-07	< 2.23E-08	< 9.87E-08	< 2.16E-08	< 2.14E-08	< 2.07E-08	< 4.06E-08	< 1.70E-08	< 2.76E-08
3,3'-Dimethylbenzidine	119-93-7	< 6.13E-08	< 1.22E-08	< 7.86E-08	< 3.86E-08	< 7.48E-08	< 1.29E-08	< 5.91E-08	< 1.19E-08	< 1.19E-08	< 1.19E-08	< 2.36E-08	< 9.38E-09	< 1.59E-08
3,3'-Dimethoxybenzidine	119-90-4	< 1.56E-07	< 3.57E-08	< 2.63E-07	< 1.09E-07	< 1.90E-07	< 3.21E-08	< 1.50E-07	< 3.04E-08	< 3.06E-08	< 2.94E-08	< 5.83E-08	< 2.42E-08	< 3.94E-08
Methylene bis-chloroaniline	101-14-4	< 2.20E-07	< 4.33E-08	< 2.88E-07	< 1.40E-07	< 2.68E-07	< 4.39E-08	< 2.12E-07	< 4.28E-08	< 4.31E-08	< 4.06E-08	< 7.99E-08	< 3.39E-08	< 5.40E-08
3-Furaldehyde	498-60-2	< 8.61E-08	< 4.60E-08	< 1.02E-07	< 4.66E-08	< 9.19E-08	< 8.34E-08	< 6.85E-08	< 6.97E-08	< 5.20E-08	< 7.35E-08	< 1.17E-07	< 5.49E-08	< 7.12E-08
2-Furaldehyde	98-01-1	4.33E-08	2.21E-06	4.67E-07	< 4.41E-08	3.03E-07	5.45E-07	1.18E-08	4.82E-08	1.43E-08	< 6.30E-08	< 1.00E-07	2.70E-06	< 6.12E-08
Cyclohexylamine	108-91-8	< 4.87E-08	< 2.85E-08	< 1.05E-07	< 2.49E-08	< 5.21E-08	5.87E-09	< 3.86E-08	< 3.78E-08	< 2.82E-08	< 3.61E-08	< 5.70E-08	< 2.96E-08	< 3.48E-08
N-Nitrosodiethylamine	55-18-5	< 1.22E-07	< 6.04E-08	< 1.08E-07	< 6.79E-08	< 1.30E-07	< 1.03E-07	< 9.67E-08	< 8.82E-08	< 6.62E-08	< 9.10E-08	< 1.45E-07	< 6.93E-08	< 8.80E-08
Cyclohexanone	108-94-1	< 8.70E-08	1.63E-07	2.81E-07	2.29E-07	9.01E-07	3.93E-07	7.60E-07	1.83E-07	6.35E-08	1.14E-07	< 7.67E-08	3.62E-07	< 4.69E-08
1,3-Cyclooctadiene	1700-10-3	< 6.04E-08	< 3.12E-08	< 5.28E-08	< 3.07E-08	< 6.49E-08	< 5.32E-08	< 4.83E-08	2.57E-07	< 3.53E-08	2.12E-07	< 7.47E-08	< 3.72E-08	< 4.52E-08
1,5-Cyclooctadiene	111-78-4	< 1.38E-07	< 7.22E-08	< 1.23E-07	< 7.04E-08	< 1.47E-07	< 1.20E-07	< 1.10E-07	< 1.07E-07	< 8.01E-08	5.88E-08	< 1.68E-07	< 8.41E-08	< 1.03E-07
Camphene	79-92-5	< 6.40E-08	< 3.49E-08	< 5.74E-08	< 3.32E-08	< 6.82E-08	7.67E-08	< 5.08E-08	< 5.16E-08	< 3.87E-08	< 5.04E-08	1.65E-07	3.72E-07	< 4.90E-08
Benzaldehyde	100-52-7	1.35E-07	2.88E-07	2.83E-07	2.20E-08	2.12E-07	3.58E-07	< 5.81E-08	8.86E-08	9.31E-08	3.92E-08	1.39E-07	1.52E-07	7.66E-08
Benzonitrile	100-47-0	< 3.25E-08	< 1.52E-08	1.83E-08	< 1.70E-08	3.50E-08	< 2.51E-08	< 2.57E-08	< 2.20E-08	< 1.66E-08	< 2.21E-08	< 3.54E-08	< 1.73E-08	< 2.14E-08
Isooctanol	26952-21-6	< 7.18E-07	8.78E-07	< 6.99E-07	< 3.70E-07	< 7.66E-07	2.71E-06	< 5.71E-07	< 4.65E-07	< 3.48E-07	1.17E-05	1.36E-04	< 3.66E-07	7.47E-06
1,2,4-Trimethylbenzene	95-63-6	3.11E-07	1.07E-07	1.66E-07	1.07E-07	1.49E-07	2.05E-07	< 1.98E-08	1.31E-07	< 1.83E-08	1.61E-07	1.09E-07	3.82E-07	2.57E-07
3-Methylstyrene	100-80-1	< 4.15E-08	< 2.28E-08	2.75E-08	3.68E-08	< 4.45E-08	< 3.80E-08	< 3.30E-08	< 3.39E-08	< 2.35E-08	< 3.33E-08	< 5.31E-08	< 2.67E-08	< 3.23E-08
4-Methylstyrene	622-97-9	< 4.55E-08	< 2.39E-08	< 3.91E-08	3.47E-08	< 4.83E-08	< 4.07E-08	< 3.62E-08	< 3.51E-08	< 2.61E-08	< 3.61E-08	< 5.70E-08	< 2.74E-08	< 3.48E-08
4-Chlorostyrene	1073-67-2	< 4.60E-08	< 2.55E-08	< 3.95E-08	< 2.38E-08	< 4.93E-08	< 4.23E-08	< 3.65E-08	< 3.78E-08	< 2.82E-08	< 3.71E-08	7.53E-08	< 2.96E-08	< 3.60E-08
1-Dodecene	112-41-4	< 2.66E-07	< 1.41E-07	< 2.19E-07	< 1.45E-07	5.26E-08	< 2.21E-07	< 2.14E-07	< 1.86E-07	< 1.52E-07	4.74E-07	1.37E-07	< 1.58E-07	< 1.97E-07
Phthalimide	85-41-6	< 1.55E-07	< 1.18E-07	2.03E-06	< 1.05E-07	6.30E-07	< 1.26E-07	3.60E-08	< 1.15E-07	< 1.02E-07	0.00E+00	< 1.97E-07	< 1.07E-07	5.03E-09
Diphenylamine	122-39-4	2.30E-08	1.49E-07	1.07E-07	1.30E-07	2.37E-08	2.29E-06	1.08E-08	6.53E-07	7.01E-07	2.62E-07	1.24E-06	4.01E-07	9.21E-08
Total Detected		6.51E-06	1.19E-05	8.38E-06	1.04E-05	2.28E-04	1.17E-05	2.73E-06	2.44E-06	9.85E-06	1.51E-05	1.46E-04	9.30E-06	1.91E-05
Total with non-detects		< 1.37E-05	< 1.52E-05	< 1.48E-05	< 1.45E-05	< 2.35E-04	< 1.60E-05	< 8.76E-06	< 6.91E-06	< 1.36E-05	< 1.88E-05	< 1.53E-04	< 1.31E-05	< 2.32E-05

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS	COMPOUND												
	Number	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Sambol (lb/lb rubber)														
Pyridine	110-86-1	< 1.12E-08	< 5.44E-09	< 2.80E-08	6.25E-09	< 1.05E-08	< 1.24E-08	< 1.75E-08	< 7.64E-09	< 6.82E-09	6.94E-09	< 5.59E-09	< 4.71E-09	< 6.09E-09
Phenol	108-95-2	7.21E-08	4.90E-08	2.77E-07	1.47E-08	7.61E-07	4.43E-08	2.39E-08	3.19E-08	5.95E-08	1.21E-08	9.20E-09	2.72E-08	4.20E-08
bis(2-Chloroethyl)ether	111-44-4	< 9.26E-09	< 5.24E-09	< 1.87E-08	5.00E-09	< 8.73E-09	< 1.18E-08	< 1.45E-08	< 7.05E-09	< 6.25E-09	< 6.65E-09	< 5.35E-09	< 4.36E-09	< 5.88E-09
2-Chlorophenol	95-57-8	< 6.47E-09	< 4.16E-09	< 1.23E-08	3.13E-09	< 6.04E-09	< 9.22E-09	< 1.01E-08	< 5.79E-09	< 5.13E-09	< 5.16E-09	< 4.18E-09	< 3.57E-09	< 4.58E-09
1,3-Dichlorobenzene	541-73-1	< 5.90E-09	< 3.65E-09	< 1.16E-08	2.92E-09	< 5.51E-09	< 7.66E-09	< 9.19E-09	< 4.90E-09	< 4.38E-09	< 4.32E-09	< 3.47E-09	< 3.04E-09	< 3.77E-09
1,4-Dichlorobenzene	106-46-7	< 5.71E-09	< 3.65E-09	2.86E-09	7.30E-10	1.52E-09	1.22E-09	1.82E-09	4.48E-09	< 4.38E-09	5.95E-10	1.50E-09	3.30E-09	< 3.88E-09
1,2-Dichlorobenzene	95-50-1	< 6.15E-09	< 3.97E-09	< 1.19E-08	3.02E-09	7.62E-10	< 8.35E-09	< 9.58E-09	< 5.32E-09	< 4.75E-09	< 4.71E-09	< 3.80E-09	< 3.30E-09	< 4.15E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.02E-08	< 4.41E-09	< 1.36E-08	5.94E-09	< 9.61E-09	< 1.00E-08	< 1.59E-08	< 6.03E-09	< 5.38E-09	< 5.60E-09	< 4.51E-09	< 3.74E-09	< 4.96E-09
Benzyl alcohol	100-51-6	9.38E-09	1.27E-08	2.14E-08	5.00E-09	1.59E-08	3.92E-08	1.98E-08	3.19E-08	2.41E-08	2.83E-08	3.24E-09	2.12E-08	< 8.03E-09
2-Methylphenol	95-48-7	< 8.31E-09	< 5.50E-09	8.64E-08	8.34E-10	1.30E-08	6.00E-09	< 1.29E-08	< 7.35E-09	< 6.50E-09	< 6.55E-09	< 5.26E-09	< 4.53E-09	< 5.77E-09
3/4-Methylphenol	108-39-4/106-44-5	1.01E-08	< 5.12E-09	2.37E-07	4.07E-09	1.11E-07	< 1.12E-08	< 1.24E-08	< 6.87E-09	< 6.13E-09	1.54E-09	< 5.07E-09	< 4.27E-09	< 5.55E-09
N-Nitroso-di-n-propylamine	621-64-7	< 1.32E-08	< 7.74E-09	< 2.56E-08	6.62E-09	< 1.24E-08	< 1.72E-08	< 2.05E-08	< 1.08E-08	< 9.57E-09	< 9.67E-09	< 7.79E-09	< 6.65E-09	< 8.52E-09
Hexachloroethane	67-72-1	< 1.29E-08	< 8.63E-09	< 2.43E-08	6.05E-09	< 1.21E-08	< 1.73E-08	< 2.00E-08	< 1.10E-08	< 9.76E-09	< 9.72E-09	< 7.79E-09	< 6.78E-09	< 8.52E-09
Nitrobenzene	98-95-3	< 7.80E-09	< 4.80E-09	< 1.40E-08	4.12E-09	< 7.21E-09	< 9.74E-09	< 1.23E-08	< 5.79E-09	< 5.63E-09	< 5.80E-09	2.02E-08	< 3.87E-09	< 5.07E-09
Isophorone	78-59-1	< 4.18E-09	6.63E-07	< 8.15E-09	5.93E-08	< 3.93E-09	< 5.48E-09	< 6.61E-09	< 3.17E-09	< 3.06E-09	< 3.27E-09	< 2.63E-09	< 2.11E-09	< 2.86E-09
2-Nitrophenol	88-75-5	< 1.08E-08	< 8.06E-09	< 1.92E-08	< 5.89E-09	< 1.00E-08	< 1.72E-08	< 1.70E-08	< 1.00E-08	< 9.76E-09	< 1.02E-08	< 8.31E-09	< 6.69E-09	< 8.89E-09
2,4-Dimethylphenol	105-67-9	< 7.42E-09	< 5.31E-09	1.39E-07	3.91E-09	< 6.08E-09	2.47E-08	< 1.17E-08	< 6.51E-09	< 6.32E-09	< 6.50E-09	< 5.26E-09	< 4.31E-09	< 5.66E-09
bis(2-Chloroethoxy)methane	111-91-1	< 7.74E-09	< 4.41E-09	< 1.43E-08	4.22E-09	< 7.15E-09	< 9.14E-09	< 1.21E-08	< 5.26E-09	< 5.13E-09	< 5.41E-09	< 4.41E-09	< 3.52E-09	< 4.74E-09
Benzoic acid	65-85-0	4.09E-07	< 1.21E-08	< 2.87E-08	3.86E-08	3.94E-07	3.08E-07	1.88E-07	< 1.48E-08	< 1.44E-08	1.09E-07	1.53E-08	< 9.86E-09	2.37E-07
2,4-Dichlorophenol	120-83-2	< 8.50E-09	< 5.44E-09	< 1.44E-08	< 4.12E-09	< 7.85E-09	< 1.09E-08	< 1.33E-08	< 6.39E-09	< 6.19E-09	< 6.50E-09	< 5.26E-09	< 4.27E-09	< 5.66E-09
1,2,4-Trichlorobenzene	120-82-1	< 7.42E-09	< 4.60E-09	< 1.24E-08	< 3.65E-09	< 6.86E-09	< 9.57E-09	< 1.17E-08	< 5.61E-09	< 5.44E-09	< 5.70E-09	< 4.65E-09	< 3.74E-09	< 4.96E-09
Naphthalene	91-20-3	2.50E-08	3.33E-08	3.08E-07	1.73E-08	2.52E-07	5.11E-08	4.32E-08	2.72E-08	2.79E-08	8.18E-09	8.87E-09	3.02E-08	1.14E-08
4-Chloroaniline	106-47-8	< 5.96E-09	< 4.09E-09	< 1.17E-08	3.94E-09	< 5.51E-09	< 7.92E-09	< 9.29E-09	< 4.96E-09	< 4.82E-09	< 4.71E-09	< 3.80E-09	< 3.30E-09	< 4.10E-09
Hexachlorobutadiene	87-68-3	< 1.15E-08	< 7.74E-09	< 1.80E-08	< 5.47E-09	< 1.07E-08	< 1.53E-08	< 1.81E-08	< 9.44E-09	< 9.19E-09	< 9.08E-09	< 7.37E-09	< 6.29E-09	< 7.92E-09
4-Chloro-3-methylphenol	59-50-7	< 8.62E-09	< 6.08E-09	< 1.64E-08	< 4.69E-09	< 8.03E-09	< 1.20E-08	< 1.36E-08	< 7.23E-09	< 7.00E-09	< 7.14E-09	< 5.77E-09	< 4.84E-09	< 6.20E-09
2-Methylnaphthalene	91-57-6	1.76E-08	2.58E-08	7.85E-08	7.87E-09	5.16E-09	1.37E-08	1.28E-08	6.15E-09	7.69E-09	3.08E-09	7.04E-10	1.45E-08	1.46E-09
Hexachlorocyclopentadiene	77-47-4	< 9.38E-09	< 9.79E-09	< 2.39E-08	< 5.52E-09	< 9.08E-09	< 2.11E-08	< 1.42E-08	< 1.40E-08	< 1.47E-08	< 1.29E-08	< 1.06E-08	< 1.02E-08	< 1.14E-08
2,4,6-Trichlorophenol	88-06-2	< 1.01E-08	< 7.42E-09	< 1.90E-08	< 5.63E-09	< 9.73E-09	< 1.40E-08	< 1.52E-08	< 7.82E-09	< 8.26E-09	< 8.53E-09	< 7.04E-09	< 5.72E-09	< 7.55E-09
2,4,5-Trichlorophenol	95-95-4	< 1.00E-08	< 7.04E-09	< 1.92E-08	< 5.68E-09	< 9.67E-09	< 1.38E-08	< 1.50E-08	< 7.47E-09	< 7.88E-09	< 8.43E-09	< 6.95E-09	< 5.46E-09	< 7.44E-09
2-Chloronaphthalene	91-58-7	< 3.36E-09	< 2.69E-09	< 6.86E-09	< 1.88E-09	< 3.28E-09	< 5.05E-09	< 5.08E-09	< 2.81E-09	< 2.94E-09	< 3.08E-09	< 2.53E-09	< 2.07E-09	< 2.75E-09
2-Nitroaniline	88-74-4	< 1.44E-08	< 9.91E-09	< 2.57E-08	< 8.70E-09	< 1.39E-08	< 1.81E-08	< 2.17E-08	< 9.68E-09	< 1.02E-08	< 1.11E-08	< 9.06E-09	< 7.09E-09	< 9.76E-09
Dimethylphthalate	131-11-3	< 2.85E-09	< 2.30E-09	1.57E-08	1.56E-09	< 2.75E-09	< 4.18E-09	< 4.31E-09	< 2.39E-09	< 2.36E-09	< 2.58E-09	< 2.11E-09	< 1.76E-09	< 2.26E-09
2,6-Dinitrotoluene	606-20-2	< 1.19E-08	< 9.08E-09	< 2.75E-08	< 7.04E-09	< 1.15E-08	< 1.74E-08	< 1.79E-08	< 9.44E-09	< 9.94E-09	< 1.06E-08	< 8.73E-09	< 6.91E-09	< 9.38E-09
2,4-Dinitrotoluene	121-14-2	< 9.45E-09	< 6.91E-09	< 1.92E-08	< 5.52E-09	< 9.14E-09	< 1.23E-08	< 1.43E-08	< 6.03E-09	< 6.32E-09	< 7.49E-09	< 6.15E-09	< 4.40E-09	< 6.63E-09
Acenaphthylene	208-96-8	< 2.09E-09	3.58E-09	6.33E-08	4.01E-09	4.09E-08	2.87E-09	4.69E-09	1.61E-09	1.50E-09	< 1.84E-09	< 1.50E-09	< 1.23E-09	< 1.62E-09
3-Nitroaniline	99-09-2	< 1.20E-08	< 9.34E-09	< 2.80E-08	< 7.09E-09	< 1.16E-08	< 1.59E-08	< 1.81E-08	< 7.64E-09	< 8.07E-09	< 9.72E-09	< 7.98E-09	< 5.59E-09	< 8.62E-09
Acenaphthene	83-32-9	< 3.17E-09	< 2.88E-09	< 7.15E-09	< 1.93E-09	< 3.11E-09	< 5.39E-09	< 4.79E-09	< 2.99E-09	< 3.19E-09	< 3.32E-09	< 2.72E-09	< 2.20E-09	< 2.91E-09
2,4-Dinitrophenol	105-67-9	< 2.97E-08	< 2.88E-08	< 7.51E-08	< 2.82E-08	< 2.87E-08	< 4.83E-08	< 4.48E-08	< 2.94E-08	< 3.10E-08	< 2.95E-08	< 2.42E-08	< 2.15E-08	< 2.61E-08
4-Nitrophenol	100-02-7	< 2.50E-08	< 2.19E-08	< 5.85E-08	< 1.43E-08	< 2.41E-08	< 3.25E-08	< 3.77E-08	< 1.88E-08	< 1.97E-08	< 1.98E-08	< 1.63E-08	< 1.37E-08	< 1.75E-08
Dibenzofuran	132-64-9	< 2.22E-09	2.11E-09	3.42E-08	1.41E-09	< 2.11E-09	3.31E-09	< 3.35E-09	< 1.91E-09	< 2.00E-09	< 2.13E-09	< 1.78E-09	< 1.36E-09	< 1.89E-09
Diethylphthalate	84-66-2	7.16E-09	1.05E-08	2.20E-08	** 0.00E+00	6.45E-10	8.44E-09	0.00E+00	7.53E-09	6.25E-09	1.29E-09	0.00E+00	5.59E-09	5.01E-09
4-Chlorophenyl-phenylether	70005-72-3	< 6.02E-09	< 5.18E-09	< 1.04E-08	< 3.28E-09	< 5.80E-09	< 9.66E-09	< 9.10E-09	< 5.26E-09	< 5.50E-09	< 5.85E-09	< 4.83E-09	< 3.83E-09	< 5.17E-09
Fluorene	86-73-7	6.34E-10	2.94E-09	1.07E-08	1.72E-09	8.21E-10	4.52E-09	< 4.60E-09	< 2.45E-09	< 2.63E-09	< 2.78E-09	< 2.30E-09	< 1.80E-09	2.70E-09
4-Nitroaniline	100-01-6	< 1.29E-08	< 8.95E-09	< 3.06E-08	< 7.71E-09	< 1.25E-08	< 1.36E-08	< 1.95E-08	< 7.05E-09	< 7.44E-09	< 8.28E-09	< 6.81E-09	< 5.15E-09	< 7.33E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 2.25E-08	< 1.33E-08	< 4.73E-08	< 2.14E-08	< 2.07E-08	< 2.63E-08	< 3.45E-08	< 1.54E-08	< 1.64E-08	< 1.53E-08	< 1.23E-08	< 1.03E-08	< 1.32E-08
N-Nitrosodiphenylamine	86-30-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	** 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4-Bromophenyl-phenylether	101-55-3	< 1.33E-08	< 8.19E-09	4.58E-09	< 6.57E-09	< 1.22E-08	< 1.51E-08	< 2.03E-08	< 9.08E-09	< 9.69E-09	< 8.78E-09	< 7.13E-09	< 6.07E-09	< 7.60E-09
Hexachlorobenzene	118-74-1	< 1.05E-08	< 6.59E-09	9.29E-09	< 5.11E-09	< 9.73E-09	< 1.16E-08	< 1.62E-08	< 7.05E-09	< 7.51E-09	< 6.75E-09	< 5.44E-09	< 4.71E-09	< 5.82E-09
Pentachlorophenol	87-86-5	< 1.86E-08	< 9.21E-09	< 3.66E-08	< 1.43E-08	< 1.71E-08	< 1.87E-08	< 2.85E-08	< 1.13E-08	< 1.21E-08	< 1.09E-08	< 8.82E-09	< 7.57E-09	4.53E-09
Phenanthrene	85-01-8	1.33E-08	8.06E-09	1.97E-08	4.38E-09	6.51E-09	1.26E-08	8.33E-09	9.56E-09	1.29E-08	3.42E-09	1.55E-09	7.61E-09	2.64E-09
Anthracene	120-12-7	< 2.98E-09	< 1.60E-09	7.44E-09	< 1.51E-09	< 2.75E-09	< 2.96E-09	< 4.60E-09	< 1.61E-09	< 1.75E-09	< 1.74E-09	< 1.41E-09	< 1.10E-09	< 1.46E-09
Di-n-butylphthalate	84-74-2	8.00E-08	1.61E-08	5.49E-08	0.00E+00	0.00E+00	1.50E-08	0.00E+00	7.47E-09	1.31E-09	1.47E-08	0.00E+00	5.94E-09	3.34E-07
Fluoranthene	206-44-0	1.48E-08	< 1.28E-09	9.01E-09	< 1.56E-09	3.28E-09	< 2.09E-09	3.74E-09	3.94E-09	5.38E-09	6.45E-10	3.29E-10	4.53E-09	8.62E-10
Pyrene	129-00-0	3.54E-08	5.24E-09	3.09E-08	5.26E-09	3.28E-08	8.35E-09	2.90E-08	1.26E-08	1.93E-08	0.00E+00	2.16E-09	1.60E-08	1.40E-09
Butylbenzylphthalate	85-68-7	6.53E-09	4.67E-09	3.26E-08	< 4.17E-09	< 8.56E-09	0.00E+00	< 1.50E-08	2.45E-09	3.31E-09	0.00E+00	0.00E+00	2.64E-09	2.37E-09
3,3'-Dichlorobenzidine	91-94-1	< 2.07E-08	< 3.58E-09	< 7.11E-08	< 1.01E-08	< 2.21E-08	< 5.05E-09	< 3.89E-08	< 3.23E-09	< 3.88E-09	< 2.93E-09	< 2.96E-09	< 2.02E-09	< 3.56E-09
bis(2-Ethylhexyl)phthalate	117-81-7	3.91E-08	3.01E-08	1.19E-07	0.00E+00	2.29E-08	1.79E-07	3.34E-08	0.00E+00	7.07E-09	< 1.29E-09	2.69E-07	8.93E-09	7.40E-07
Benzo(a)anthracene	56-55-3	< 6.34E-09	< 1.15E-09	9.29E-09	< 3.18E-09	< 6.74E-09	< 1.91E-09	< 1.19E-08	< 1.19E-09	< 1.38E-09	< 1.14E-09	< 1.13E-09	< 7.48E-10	< 1.40E-09

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TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS	COMPOUND												
	Numbers	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Semivol (Drib rubber)														
Chrysene	218-01-9	< 7.16E-09	< 1.28E-09	1.23E-08	< 3.49E-09	< 7.62E-09	0.00E+00	< 1.34E-08	< 1.25E-09	< 1.50E-09	< 1.24E-09	5.16E-10	< 7.92E-10	0.00E+00
Di-n-octylphthalate	117-84-0	4.31E-09	< 5.76E-10	< 1.12E-08	< 2.45E-09	3.05E-09	< 1.13E-09	< 1.02E-08	< 5.97E-10	< 7.51E-10	< 6.94E-10	< 7.04E-10	< 3.96E-10	< 8.09E-10
Benzo(b)fluoranthene	205-99-2	< 9.13E-09	< 9.59E-10	< 2.20E-08	< 4.07E-09	< 8.91E-09	< 1.65E-09	< 1.71E-08	< 9.56E-10	< 1.19E-09	< 1.04E-09	< 1.03E-09	< 6.60E-10	6.47E-10
Benzo(k)fluoranthene	207-08-9	< 9.45E-09	< 1.02E-09	< 2.32E-08	< 4.17E-09	< 9.26E-09	< 1.65E-09	< 1.78E-08	< 1.08E-09	< 1.31E-09	< 1.04E-09	< 1.03E-09	< 7.04E-10	5.93E-10
Benzo(a)pyrene	50-32-8	< 1.07E-08	< 1.09E-09	< 2.73E-08	< 4.74E-09	< 1.04E-08	< 1.74E-09	< 2.01E-08	< 1.08E-09	< 1.31E-09	< 1.09E-09	< 1.08E-09	< 7.04E-10	< 1.24E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.36E-08	< 1.02E-09	< 3.82E-08	< 6.15E-09	< 1.32E-08	< 1.57E-09	< 2.56E-08	< 1.02E-09	< 1.25E-09	< 9.92E-10	< 9.86E-10	< 6.60E-10	< 1.13E-09
Dibenz(a,h)anthracene	53-90-3	< 1.73E-08	< 1.34E-09	< 5.13E-08	< 8.13E-09	< 1.69E-08	< 2.00E-09	< 3.27E-08	< 1.31E-09	< 1.56E-09	< 1.29E-09	< 1.27E-09	< 8.36E-10	< 1.46E-09
Benzo(g,h,i)perylene	191-24-2	1.54E-08	< 1.15E-09	< 4.79E-08	< 7.40E-09	< 1.61E-08	< 1.74E-09	< 3.09E-08	< 1.13E-09	< 1.38E-09	< 1.09E-09	< 1.08E-09	4.40E-09	< 1.24E-09
n-Nitrosodimethylamine	62-75-9	0.00E+00	< 7.93E-09	< 4.50E-08	0.00E+00	0.00E+00	< 1.92E-08	0.00E+00	< 1.09E-08	< 9.76E-09	< 1.08E-08	8.68E-09	< 6.78E-09	< 9.49E-09
Cumene	98-82-8	2.92E-09	< 1.98E-09	4.00E-09	1.67E-09	1.41E-09	1.21E-08	2.76E-08	< 2.81E-09	< 2.50E-09	1.67E-08	2.68E-09	2.21E-08	2.80E-09
Aniline	62-53-3	< 5.71E-09	4.80E-07	< 1.30E-08	4.30E-07	< 5.33E-09	9.97E-08	< 8.91E-09	7.70E-09	5.13E-09	4.71E-09	2.39E-08	< 2.55E-09	< 3.56E-09
Benzyl Chloride	100-44-7	< 4.25E-09	< 2.75E-09	< 9.44E-09	< 2.61E-09	< 3.99E-09	< 6.18E-09	< 6.61E-09	< 3.82E-09	< 3.44E-09	< 3.47E-09	< 2.82E-09	< 2.38E-09	< 3.07E-09
Acetophenone	98-86-2	4.24E-08	2.13E-08	5.13E-08	3.75E-09	1.85E-08	7.67E-08	1.23E-07	1.29E-08	1.47E-06	8.46E-08	2.29E-07	3.45E-07	5.71E-08
n-Nitrosomorpholine	59-89-2	< 1.15E-08	< 7.61E-09	< 2.10E-08	< 7.30E-09	< 1.08E-08	< 1.69E-08	< 1.80E-08	< 1.00E-08	< 8.88E-09	< 9.47E-09	< 7.60E-09	< 6.21E-09	< 8.30E-09
o-Toluidine	95-53-4	< 4.82E-09	< 3.65E-09	< 1.14E-08	< 3.13E-09	< 4.51E-09	2.23E-07	< 7.47E-09	< 4.84E-09	< 4.25E-09	< 4.61E-09	< 3.71E-09	8.24E-08	< 4.10E-09
N,N-Dimethylaniline	121-69-7	< 4.57E-09	< 3.39E-09	< 8.87E-09	< 2.92E-09	< 4.22E-09	< 6.96E-09	< 7.09E-09	< 4.06E-09	< 3.94E-09	< 4.12E-09	< 3.33E-09	< 2.68E-09	< 3.61E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 1.24E-08	< 8.12E-09	< 3.02E-08	< 7.71E-09	< 1.16E-08	< 1.81E-08	< 1.92E-08	< 1.10E-08	< 9.76E-09	< 1.01E-08	< 8.17E-09	< 6.78E-09	< 8.95E-09
o-Anisidine	90-04-0	< 9.19E-09	< 6.01E-09	< 1.72E-08	< 6.15E-09	< 8.50E-09	< 1.25E-08	< 1.44E-08	< 7.35E-09	< 7.13E-09	< 7.44E-09	< 6.05E-09	< 4.89E-09	< 6.47E-09
1,4-Phenylenediamine	106-50-3	< 1.59E-08	< 9.34E-09	< 3.67E-08	< 1.26E-08	< 1.46E-08	< 1.72E-08	< 2.47E-08	< 1.36E-08	< 1.33E-08	< 1.02E-08	< 8.31E-09	< 9.11E-09	< 8.89E-09
N,N-Diethylaniline	91-66-7	4.03E-08	< 2.62E-09	< 7.86E-09	< 2.03E-09	< 3.16E-09	< 5.74E-09	< 5.27E-09	< 3.52E-09	< 3.13E-09	< 3.22E-09	< 2.58E-09	< 2.20E-09	< 2.86E-09
a,a,a-Trichlorotoluene	98-07-7	< 5.07E-09	< 3.77E-09	< 9.58E-09	< 3.13E-09	< 4.69E-09	< 7.83E-09	< 7.95E-09	< 4.54E-09	< 4.38E-09	< 4.61E-09	< 3.75E-09	< 3.04E-09	< 4.04E-09
Hydroquinone	123-31-9	< 1.07E-08	< 9.15E-09	< 2.13E-08	8.10E-07	2.62E-05	< 1.37E-08	< 1.68E-08	< 9.91E-09	< 9.63E-09	< 8.13E-09	< 6.62E-09	< 6.65E-09	< 7.12E-09
2-Chloroacetophenone	1341-24-8	< 3.42E-09	< 2.75E-09	< 6.86E-09	< 2.24E-09	< 3.16E-09	< 5.39E-09	< 5.36E-09	< 3.52E-09	< 3.44E-09	5.46E-10	< 2.58E-09	< 2.33E-09	< 2.75E-09
Biphenyl	92-52-4	< 2.66E-09	< 2.30E-09	5.63E-08	5.42E-09	< 2.58E-09	1.17E-08	< 4.02E-09	< 2.45E-09	< 2.56E-09	< 2.78E-09	< 2.30E-09	< 1.80E-09	< 2.48E-09
Trifluralin	1582-09-8	< 1.23E-08	< 1.24E-08	< 3.16E-08	< 9.49E-09	< 1.19E-08	< 2.03E-08	< 1.85E-08	< 1.28E-08	< 1.35E-08	< 1.24E-08	< 1.02E-08	< 9.38E-09	< 1.10E-08
4-Aminobiphenyl	92-67-1	< 4.12E-09	< 2.37E-09	< 7.29E-09	< 2.92E-09	< 3.81E-09	< 3.83E-09	< 6.32E-09	< 2.21E-09	< 2.38E-09	< 2.23E-09	< 1.83E-09	< 1.50E-09	< 1.94E-09
Pentachloronitrobenzene	82-68-8	< 2.56E-08	< 2.09E-08	< 4.50E-08	< 1.67E-08	< 2.35E-08	< 3.36E-08	< 3.92E-08	< 2.06E-08	< 2.20E-08	< 1.96E-08	< 1.58E-08	< 1.38E-08	< 1.69E-08
4-Nitrobiphenyl	92-93-3	< 8.94E-09	< 4.73E-09	< 1.64E-08	< 6.62E-09	< 8.21E-09	< 7.22E-09	< 1.37E-08	< 4.42E-09	< 4.75E-09	< 4.22E-09	< 3.43E-09	< 2.95E-09	< 3.61E-09
Benzidine	92-87-5	< 1.12E-08	< 2.94E-09	< 2.75E-08	< 7.77E-09	< 1.20E-08	< 4.35E-09	< 2.11E-08	< 2.75E-09	< 3.25E-09	< 2.53E-09	< 2.53E-09	< 1.72E-09	< 3.07E-09
4,4'-Methylenedianiline	101-77-9	< 1.63E-08	< 4.48E-09	< 4.79E-08	< 1.12E-08	< 1.75E-08	< 6.00E-09	< 3.07E-08	< 3.82E-09	< 4.57E-09	< 3.52E-09	< 3.52E-09	< 2.42E-09	< 4.26E-09
Dimethylaminoazobenzene	60-11-7	< 1.45E-08	< 3.33E-09	< 2.87E-08	< 9.54E-09	< 1.54E-08	< 4.96E-09	< 2.72E-08	< 3.34E-09	< 3.94E-09	< 2.93E-09	< 2.91E-09	< 2.07E-09	< 3.56E-09
3,3'-Dimethylbenzidine	119-93-7	< 8.62E-09	< 2.05E-09	< 2.70E-08	< 5.58E-09	< 9.26E-09	< 2.87E-09	< 1.63E-08	< 1.85E-09	< 2.19E-09	< 1.69E-09	< 1.69E-09	< 1.14E-09	< 2.05E-09
3,3'-Dimethoxybenzidine	119-90-4	< 2.20E-08	< 6.01E-09	< 9.02E-08	< 1.57E-08	< 2.35E-08	< 7.13E-09	< 4.14E-08	< 4.72E-09	< 5.63E-09	< 4.17E-09	< 4.18E-09	< 2.95E-09	< 5.07E-09
Methylene bis-chloroaniline	101-14-4	< 3.10E-08	< 7.29E-09	< 9.88E-08	< 2.02E-08	< 3.31E-08	< 9.74E-09	< 5.83E-08	< 6.63E-09	< 7.94E-09	< 5.75E-09	< 5.73E-09	< 4.14E-09	< 6.95E-09
3-Furaldehyde	498-60-2	< 1.21E-08	< 7.74E-09	< 3.50E-08	< 6.72E-09	< 1.14E-08	< 1.85E-08	< 1.89E-08	< 1.08E-08	< 9.57E-09	< 1.04E-08	< 8.35E-09	< 6.69E-09	< 9.16E-09
2-Furaldehyde	98-01-1	6.09E-09	3.71E-07	1.60E-07	< 6.36E-09	3.75E-08	1.21E-07	3.26E-09	7.47E-09	2.63E-09	< 8.93E-09	< 7.18E-09	3.29E-07	< 7.87E-09
Cyclohexylamine	108-91-8	< 6.85E-09	< 4.80E-09	< 3.60E-08	< 3.60E-09	< 6.45E-09	1.31E-09	< 1.06E-08	< 5.85E-09	< 5.19E-09	< 5.11E-09	< 4.08E-09	< 3.61E-09	< 4.47E-09
N-Nitrosodiethylamine	55-18-5	< 1.71E-08	< 1.02E-08	< 3.72E-08	< 9.80E-09	< 1.61E-08	< 2.30E-08	< 2.66E-08	< 1.37E-08	< 1.22E-08	< 1.29E-08	< 1.04E-08	< 8.45E-09	< 1.13E-08
Cyclohexanone	108-94-1	< 1.22E-08	2.75E-08	9.67E-08	3.31E-08	1.12E-07	8.74E-08	2.09E-07	2.84E-08	1.17E-08	1.62E-08	< 5.49E-09	4.42E-08	< 6.04E-09
1,3-Cyclooctadiene	1700-10-3	< 8.50E-09	< 5.24E-09	< 1.82E-08	< 4.43E-09	< 8.03E-09	< 1.18E-08	< 1.33E-08	3.98E-08	< 6.50E-09	3.00E-08	< 5.35E-09	< 4.53E-09	< 5.82E-09
1,5-Cyclooctadiene	111-78-4	< 1.94E-08	< 1.22E-08	< 4.22E-08	< 1.02E-08	< 1.82E-08	< 2.67E-08	< 3.03E-08	< 1.66E-08	< 1.48E-08	8.33E-09	< 1.21E-08	< 1.03E-08	< 1.32E-08
Camphene	79-92-5	< 9.00E-09	< 5.88E-09	< 1.97E-08	< 4.79E-09	< 8.44E-09	1.71E-08	< 1.40E-08	< 8.00E-09	< 7.13E-09	< 7.14E-09	1.18E-08	4.54E-08	< 6.31E-09
Benzaldehyde	100-52-7	1.90E-08	4.85E-08	9.72E-08	3.18E-09	2.62E-08	7.95E-08	< 1.60E-08	1.37E-08	1.71E-08	5.56E-09	9.95E-09	1.85E-08	9.86E-09
Benzonitrile	100-47-0	< 4.57E-09	< 2.56E-09	6.29E-09	< 2.45E-09	4.34E-09	< 5.57E-09	< 7.09E-09	< 3.40E-09	< 3.06E-09	< 3.12E-09	< 2.53E-09	< 2.11E-09	< 2.75E-09
Isooctanol	26952-21-6	< 1.01E-07	1.48E-07	< 2.40E-07	< 5.34E-08	< 9.48E-08	6.03E-07	< 1.57E-07	< 7.20E-08	< 6.40E-08	1.66E-06	9.75E-06	< 4.46E-08	9.61E-07
1,2,4-Trimethylbenzene	95-63-6	4.38E-08	1.80E-08	5.72E-08	1.55E-08	1.85E-08	4.55E-08	< 5.46E-09	2.03E-08	< 3.38E-09	2.28E-08	7.79E-09	4.66E-08	3.31E-08
3-Methylstyrene	100-80-1	< 5.83E-09	< 3.84E-09	9.44E-09	5.32E-09	< 5.51E-09	< 8.44E-09	< 9.10E-09	< 5.26E-09	< 4.69E-09	< 4.71E-09	< 3.80E-09	< 3.26E-09	< 4.15E-09
4-Methylstyrene	622-97-9	< 6.40E-09	< 4.03E-09	< 1.34E-08	5.00E-09	< 5.98E-09	< 9.05E-09	< 9.96E-09	< 5.43E-09	< 4.82E-09	< 5.11E-09	< 4.08E-09	< 3.35E-09	< 4.47E-09
4-Chlorostyrene	1073-67-2	< 6.47E-09	< 4.28E-09	< 1.36E-08	< 3.44E-09	< 6.10E-09	< 9.40E-09	< 1.01E-08	< 5.83E-09	< 5.19E-09	< 5.26E-09	5.40E-09	< 3.61E-09	< 4.64E-09
1-Dodecene	112-41-4	< 3.74E-08	< 2.37E-08	< 7.54E-08	< 2.10E-08	6.51E-09	< 4.91E-08	< 3.89E-08	< 2.89E-08	< 2.81E-08	6.72E-08	9.81E-09	< 1.93E-08	< 2.54E-08
Phthalimide	85-41-6	< 2.17E-08	< 1.98E-08	6.99E-07	< 1.51E-08	7.80E-08	< 2.80E-08	1.54E-08	< 1.79E-08	< 1.88E-08	0.00E+00	< 1.41E-08	< 1.31E-08	6.47E-10
Diphenylamine	122-39-4	3.23E-09	2.51E-08	3.66E-08	1.87E-08	2.93E-09	5.08E-07	2.97E-09	1.01E-07	1.29E-07	-3.71E-08	8.90E-08	4.89E-08	1.19E-08
Total Detected		9.17E-07	2.01E-06	2.88E-06	1.50E-06	2.82E-05	2.61E-06	7.51E-07	3.78E-07	1.81E-06	2.14E-06	1.05E-05	1.13E-06	2.46E-06
Total with non-detects		< 1.91E-06	< 2.56E-06	< 5.10E-06	< 2.09E-06	< 2.91E-05	< 3.36E-06	< 2.41E-06	< 1.07E-06	< 2.51E-06	< 2.67E-06	< 1.09E-05	< 1.59E-06	< 2.99E-06

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS Numbers	COMPOUND #14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Sandwel (µg/m³)														
Pyridine	110-86-1	< 0.42	< 0.63	< 0.86	< 1.48	< 0.68	< 0.67	< 0.88	< 0.94	< 0.34	< 0.83	< 0.23	< 0.36	< 0.24
Phenol	108-95-2	4.13	3.68	8.71	107.41	4.92	< 0.48	1.35	1.52	50.30	2.16	0.59	< 0.16	2.04
bis(2-Chloroethyl)ether	111-44-4	< 0.41	< 0.51	< 0.79	< 1.27	< 0.62	< 0.65	< 0.59	< 0.90	< 0.33	< 0.81	< 0.14	< 0.22	< 0.14
2-Chlorophenol	95-57-8	< 0.32	< 0.32	< 0.65	< 0.84	< 0.51	< 0.51	< 0.39	< 0.70	< 0.26	< 0.64	< 0.13	< 0.20	< 0.13
1,3-Dichlorobenzene	541-73-1	< 0.28	< 0.30	< 0.55	< 0.75	< 0.43	< 0.42	< 0.37	< 0.58	< 0.23	< 0.55	< 0.12	< 0.19	< 0.12
1,4-Dichlorobenzene	106-46-7	< 0.28	< 0.28	< 0.55	< 0.72	< 0.43	< 0.43	< 0.34	< 0.60	< 0.23	< 0.56	0.33	0.52	< 0.12
1,2-Dichlorobenzene	95-50-1	< 0.31	< 0.30	< 0.60	< 0.79	< 0.47	< 0.46	< 0.37	< 0.64	< 0.25	< 0.61	< 0.13	< 0.20	< 0.13
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.34	< 0.60	< 0.67	< 1.42	< 0.53	< 0.54	< 0.43	< 0.76	< 0.28	< 0.67	< 0.22	< 0.34	< 0.22
Benzyl alcohol	100-51-6	< 0.60	4.02	1.58	< 1.54	2.48	1.28	0.75	2.11	1.53	< 1.19	1.36	3.39	1.01
2-Methylphenol	95-48-7	< 0.42	< 0.44	< 0.82	< 1.10	< 0.65	< 0.64	0.07	< 0.90	< 0.34	< 0.84	< 0.15	< 0.23	< 0.15
3/4-Methylphenol	108-39-4/106-44-5	< 0.40	< 0.41	< 0.77	< 1.04	< 0.61	< 0.61	< 0.49	< 0.85	< 0.32	< 0.78	< 0.14	< 0.22	0.21
N-Nitroso-di-n-propylamine	621-64-7	< 0.60	< 0.67	< 1.21	< 1.66	< 0.95	< 0.94	< 0.81	< 1.32	< 0.49	< 1.18	< 0.25	< 0.39	< 0.25
Hexachloroethane	67-72-1	< 0.67	168.43	< 1.23	< 1.58	< 0.97	< 0.94	< 0.77	< 1.32	< 0.54	1.05	< 0.24	< 0.38	< 0.25
Nitrobenzene	98-95-3	< 1.15	< 0.40	< 0.72	< 1.09	< 0.53	< 0.61	< 0.44	< 0.70	< 0.30	< 0.71	< 0.14	< 0.22	< 0.14
Isophorone	78-59-1	< 0.64	< 0.22	< 0.39	< 0.59	< 0.29	< 0.34	< 0.26	0.64	24.68	< 0.39	< 0.08	< 0.12	< 0.08
2-Nitrophenol	88-75-5	< 1.93	< 0.57	< 1.24	< 1.69	< 0.91	< 1.07	< 0.60	< 1.23	< 0.50	< 1.19	< 0.23	< 0.36	< 0.23
2,4-Dimethylphenol	105-67-9	< 1.27	< 0.38	< 0.80	3.52	< 0.59	< 0.68	< 0.48	< 0.78	< 0.33	< 0.77	< 0.14	< 0.23	< 0.14
bis(2-Chloroethoxy)methane	111-91-1	< 1.05	< 0.41	< 0.65	< 1.09	< 0.48	< 0.57	< 0.45	< 0.65	< 0.28	< 0.64	< 0.12	< 0.19	< 0.12
Benzoic acid	65-85-0	< 2.89	20.10	< 1.82	< 3.49	< 1.35	25.78	< 0.90	0.00	0.86	67.59	< 0.28	< 0.45	1.16
2,4-Dichlorophenol	120-83-2	< 1.30	< 0.40	< 0.79	< 1.14	< 0.58	< 0.68	< 0.46	< 0.78	< 0.34	< 0.80	< 0.15	< 0.25	< 0.16
1,2,4-Trichlorobenzene	120-82-1	< 1.10	< 0.35	< 0.70	< 1.02	< 0.51	< 0.60	< 0.39	< 0.68	< 0.28	< 0.67	< 0.14	< 0.23	< 0.15
Naphthalene	91-20-3	< 0.40	3.80	2.15	3.39	2.89	1.55	1.25	2.03	4.04	5.51	1.88	7.06	0.53
4-Chloroaniline	106-47-8	< 0.98	< 0.29	< 0.61	< 0.80	< 0.45	0.72	< 0.37	< 0.56	< 0.26	< 0.60	< 0.11	< 0.17	< 0.11
Hexachlorobutadiene	87-68-3	< 1.86	< 0.53	< 1.16	< 1.52	< 0.86	< 0.95	< 0.57	< 1.09	< 0.48	< 1.13	< 0.29	< 0.46	< 0.29
4-Chloro-3-methylphenol	59-50-7	< 1.46	< 0.45	< 0.89	< 1.22	< 0.66	< 0.74	< 0.52	< 0.85	< 0.38	< 0.89	< 0.16	< 0.25	< 0.16
2-Methylnaphthalene	91-57-6	2.06	0.23	0.29	0.34	0.29	0.13	0.13	0.98	1.46	0.27	2.54	6.53	0.31
Hexachlorocyclopentadiene	77-47-4	< 0.66	< 0.55	< 1.68	< 1.39	< 1.32	< 1.40	< 0.73	< 1.39	< 0.62	< 1.39	< 0.26	< 0.40	< 0.28
2,4,6-Trichlorophenol	88-06-2	< 0.50	< 0.57	< 0.94	< 1.49	< 0.74	< 0.93	< 0.58	< 0.92	< 0.47	< 1.06	< 0.29	< 0.43	< 0.30
2,4,5-Trichlorophenol	95-95-4	< 0.47	< 0.57	< 0.90	< 1.46	< 0.71	< 0.92	< 0.59	< 0.91	< 0.45	< 1.00	< 0.27	< 0.40	< 0.28
2-Chloronaphthalene	91-58-7	< 0.18	< 0.19	< 0.34	< 0.49	< 0.27	< 0.34	< 0.21	< 0.33	< 0.17	< 0.38	< 0.08	< 0.12	< 0.08
2-Nitroaniline	88-74-4	< 0.67	< 0.87	< 1.16	< 2.08	< 0.91	< 1.20	< 0.78	< 1.19	< 0.63	< 1.41	< 0.31	< 0.47	< 0.32
Dimethylphthalate	131-11-3	0.23	0.30	0.60	< 0.40	< 0.23	< 0.28	< 0.19	< 0.28	< 0.14	< 0.32	< 0.08	< 0.11	< 0.08
2,6-Dinitrotoluene	606-20-2	< 0.61	< 0.70	< 1.14	< 1.77	< 0.89	< 1.16	< 0.84	< 1.15	< 0.58	< 1.30	< 0.29	< 0.44	< 0.30
2,4-Dinitrotoluene	121-14-2	< 0.47	< 0.55	< 0.72	< 1.42	< 0.56	< 0.81	< 0.59	< 0.80	< 0.44	< 0.98	< 0.23	< 0.34	< 0.24
Acenaphthylene	208-96-8	< 0.11	0.42	0.19	< 0.31	< 0.16	< 0.20	0.06	< 0.20	0.72	< 0.23	< 0.05	< 0.08	< 0.05
3-Nitroaniline	99-09-2	< 0.63	< 0.71	< 0.92	< 1.64	< 0.72	< 1.06	< 0.85	< 1.05	< 0.60	< 1.33	< 0.28	< 0.43	< 0.29
Acenaphthene	83-32-9	< 0.20	< 0.19	< 0.36	0.06	< 0.28	< 0.36	< 0.22	< 0.36	< 0.18	< 0.41	0.07	< 0.13	< 0.09
2,4-Dinitrophenol	105-67-9	< 1.94	< 2.84	< 3.55	< 8.53	< 2.77	2.04	< 2.28	< 3.18	< 1.84	< 4.10	< 0.69	< 1.03	< 0.72
4-Nitrophenol	100-02-7	< 1.47	< 1.43	< 2.26	< 3.31	< 1.76	1.25	< 1.78	< 2.13	< 1.40	< 3.11	< 0.55	< 0.83	< 0.58
Dibenzofuran	132-64-9	0.19	0.10	< 0.23	< 0.32	< 0.18	< 0.23	0.07	0.05	< 0.12	0.09	0.16	0.20	< 0.06
Diethylphthalate	84-66-2	0.73	0.44	0.62	0.05	0.70	0.52	0.55	0.94	0.74	0.94	11.93	1.86	1.65
4-Chlorophenyl-phenylether	70005-72-3	< 0.35	< 0.33	< 0.63	< 0.86	< 0.49	< 0.64	< 0.32	< 0.63	< 0.33	< 0.74	< 0.20	< 0.30	< 0.21
Fluorene	86-73-7	< 0.16	< 0.18	< 0.30	< 0.44	< 0.23	< 0.30	0.03	< 0.30	0.22	0.08	< 0.08	< 0.12	< 0.08
4-Nitroaniline	100-01-6	< 0.60	< 0.78	< 0.85	< 1.66	< 0.67	< 0.90	< 0.93	< 0.89	< 0.57	< 1.27	< 0.31	< 0.47	< 0.33
4,6-Dinitro-2-methylphenol	534-52-1	< 0.76	< 2.07	< 1.93	< 6.10	< 1.46	< 1.93	< 1.54	< 1.49	< 0.84	< 1.86	< 0.54	< 0.79	< 0.58
N-Nitrosodiphenylamine	86-30-6	0.00	0.32	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Bromophenyl-phenylether	101-55-3	< 0.47	< 0.63	< 1.14	< 1.66	< 0.86	< 1.11	< 0.68	< 0.86	< 0.52	< 1.15	< 0.34	< 0.49	< 0.36
Hexachlorobenzene	118-74-1	< 0.37	< 0.50	< 0.88	< 1.32	< 0.67	< 0.85	< 0.54	< 0.65	< 0.42	< 0.93	< 0.25	< 0.36	< 0.27
Pentachlorophenol	87-86-5	< 0.52	< 1.39	< 1.42	< 3.69	< 1.07	< 1.58	< 1.19	< 1.06	< 0.58	< 1.29	< 0.42	< 0.61	< 0.45
Phenanthrene	85-01-8	0.66	< 0.14	0.49	0.43	0.78	0.25	0.23	0.16	0.49	0.47	0.33	0.67	0.27
Anthracene	120-12-7	< 0.09	< 0.14	< 0.21	0.14	< 0.15	< 0.21	< 0.16	< 0.17	< 0.10	< 0.23	< 0.07	< 0.10	< 0.07
Di-n-butylphthalate	84-74-2	0.69	0.00	0.70	0.00	7.24	3.68	1.59	46.50	2.61	15.23	37.53	4.54	1.69
Fluoranthene	206-44-0	0.20	< 0.15	0.17	0.35	0.12	0.13	< 0.17	0.18	< 0.08	< 0.18	< 0.07	< 0.11	< 0.08
Pyrene	129-00-0	0.73	1.30	0.50	0.88	0.35	0.18	1.53	0.26	0.40	1.72	< 0.07	< 0.11	< 0.08
Butylbenzylphthalate	85-68-7	0.23	< 0.44	0.35	< 0.91	0.37	0.23	0.42	0.00	0.20	0.33	2.15	0.94	0.46
3,3'-Dichlorobenzidine	91-94-1	< 0.22	< 1.06	< 0.45	< 2.16	< 0.28	< 0.45	< 2.48	< 0.48	< 0.23	< 0.53	< 0.23	< 0.37	< 0.28
bis(2-Ethylhexyl)phthalate	117-81-7	0.00	6.28	6.77	0.20	1.93	1.65	3.31	21.46	0.62	116.81	4.09	6.63	2.98
Benzo(a)anthracene	56-55-3	< 0.07	< 0.33	< 0.16	< 0.70	< 0.10	< 0.18	< 0.53	< 0.18	< 0.08	< 0.18	< 0.10	< 0.15	< 0.11

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS Numbers	COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Semivol (µg/m³)														
Chrysene	218-01-9	< 0.08	< 0.37	< 0.18	< 0.79	< 0.11	0.03	< 0.51	< 0.20	< 0.08	< 0.19	0.12	< 0.16	< 0.12
Di-n-octylphthalate	117-84-0	< 0.04	< 0.29	< 0.08	< 0.66	< 0.05	< 0.13	< 0.44	< 0.22	< 0.04	< 0.09	< 0.05	< 0.09	< 0.06
Benzo(b)fluoranthene	205-99-2	< 0.07	< 0.49	< 0.13	< 1.04	< 0.08	< 0.18	< 0.88	< 0.32	< 0.06	< 0.15	< 0.09	< 0.15	< 0.11
Benzo(k)fluoranthene	207-08-9	< 0.07	< 0.50	< 0.14	< 1.10	< 0.09	< 0.19	< 0.93	< 0.33	< 0.07	< 0.16	< 0.10	< 0.16	< 0.12
Benzo(a)pyrene	50-32-8	< 0.07	< 0.57	< 0.14	< 1.23	< 0.10	< 0.19	< 1.09	< 0.34	< 0.07	< 0.17	< 0.10	< 0.16	< 0.12
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.07	< 0.74	< 0.13	< 1.68	< 0.09	< 0.18	< 1.52	< 0.31	< 0.07	< 0.16	< 0.10	< 0.16	< 0.12
Dibenz(a,h)anthracene	53-90-3	< 0.09	< 0.98	< 0.17	< 2.14	< 0.11	< 0.23	< 2.05	< 0.40	< 0.09	< 0.21	< 0.12	< 0.20	< 0.15
Benzo(g,h,i)perylene	191-24-2	0.37	< 0.89	0.67	< 1.99	< 0.10	< 0.20	< 1.91	< 0.35	< 0.08	0.36	< 0.11	< 0.18	< 0.13
n-Nitrosodimethylamine	62-75-9	< 0.61	0.00	< 1.23	0.00	< 0.97	< 1.05	< 1.42	< 1.47	< 0.50	< 1.20	< 0.42	< 0.65	< 0.42
Cumene	98-82-8	< 0.16	0.40	< 0.31	0.80	2.64	0.19	0.38	0.19	< 0.13	0.35	< 0.05	< 0.08	0.26
Aniline	62-53-3	< 0.24	< 0.40	< 0.47	43.42	14.54	< 0.39	0.53	< 0.55	34.30	38.61	< 0.08	< 0.13	< 0.08
Benzyl Chloride	100-44-7	< 0.21	< 0.27	< 0.43	< 0.46	< 0.34	< 0.34	< 0.30	< 0.48	< 0.17	< 0.42	< 0.08	< 0.11	< 0.07
Acetophenone	98-86-2	1.32	1.50	2.11	1.23	5.00	3.13	11.75	2.86	2.14	1.56	3.50	9.49	1.55
n-Nitrosomorpholine	59-89-2	< 0.59	< 0.74	< 1.12	< 1.24	< 0.89	< 0.92	< 0.66	< 1.29	< 0.48	< 1.17	< 0.24	< 0.37	< 0.24
o-Toluidine	95-53-4	< 0.28	< 0.32	< 0.54	< 0.52	< 0.43	< 0.45	< 0.36	< 0.63	< 0.23	< 0.55	29.44	26.86	< 0.09
N,N-Dimethylaniline	121-69-7	< 0.80	< 0.28	< 0.50	< 0.53	< 0.37	< 0.43	< 0.28	< 0.50	< 0.21	< 0.49	< 0.09	< 0.14	< 0.09
1,2-Dibromo-3-chloropropane	96-12-8	< 0.63	< 0.78	< 1.23	< 1.32	< 0.97	< 0.99	< 0.95	< 1.38	< 0.51	< 1.24	< 0.25	< 0.38	< 0.25
o-Anisidine	90-04-0	< 1.44	< 0.59	< 0.91	< 1.07	< 0.67	< 0.78	< 0.54	< 0.90	< 0.38	< 0.88	< 0.17	< 0.26	< 0.17
1,4-Phenylenediamine	106-50-3	< 2.24	< 1.21	< 1.68	< 1.85	< 1.24	< 1.07	< 1.15	< 1.23	< 0.58	< 1.37	< 0.22	< 0.35	< 0.22
N,N-Diethylaniline	91-66-7	< 0.20	< 0.20	< 0.40	< 0.36	< 0.32	< 0.31	< 0.25	< 0.43	< 0.16	< 0.40	< 0.08	< 0.12	< 0.08
a,a,a-Trichlorotoluene	98-07-7	< 0.90	< 0.30	< 0.56	< 0.59	< 0.41	< 0.48	< 0.30	< 0.55	< 0.24	< 0.55	< 0.10	< 0.16	< 0.10
Hydroquinone	123-31-9	< 2.19	< 0.87	< 1.23	< 1.25	< 0.90	< 0.85	< 0.67	< 0.98	< 0.57	< 1.34	< 0.16	< 0.26	< 0.16
2-Chloroacetophenone	1341-24-8	< 0.66	< 0.22	< 0.43	< 0.40	< 0.32	< 0.33	< 0.21	< 0.38	< 0.17	< 0.41	< 0.06	< 0.09	< 0.06
Biphenyl	92-52-4	0.10	< 0.20	< 0.30	< 0.32	< 0.23	< 0.30	< 0.19	< 0.30	0.72	< 0.33	< 0.07	< 0.11	< 0.07
Trifluralin	1582-09-8	< 0.84	< 0.95	< 1.55	< 1.46	< 1.21	< 1.35	< 0.96	< 1.34	< 0.79	< 1.77	< 0.43	< 0.64	< 0.45
4-Aminobiphenyl	92-67-1	< 0.13	< 0.28	< 0.28	< 0.50	< 0.21	< 0.29	< 0.24	< 0.22	< 0.15	< 0.33	< 0.09	< 0.13	< 0.10
Pentachloronitrobenzene	82-68-8	< 1.19	< 1.62	< 2.58	< 3.07	< 1.95	< 2.47	< 1.47	< 1.91	< 1.32	< 2.92	< 0.71	< 1.04	< 0.77
4-Nitrobiphenyl	92-93-3	< 0.27	< 0.64	< 0.55	< 1.08	< 0.42	< 0.53	< 0.53	< 0.41	< 0.30	< 0.66	< 0.20	< 0.30	< 0.22
Benzidine	92-87-5	< 0.18	2.46	< 0.38	< 1.65	< 0.24	< 0.39	< 0.96	< 0.41	< 0.19	< 0.43	< 0.14	< 0.22	< 0.17
4,4'-Methylenedianiline	101-77-9	< 0.28	< 1.17	< 0.54	< 2.41	< 0.33	< 0.54	< 1.67	< 0.56	< 0.29	< 0.65	< 0.24	< 0.38	< 0.29
Dimethylaminoazobenzene	60-11-7	< 0.21	2.24	< 0.46	< 2.13	< 0.29	< 0.45	< 1.00	< 0.47	< 0.22	< 0.49	< 0.20	< 0.32	< 0.24
3,3'-Dimethylbenzidine	119-93-7	< 0.13	< 0.59	< 0.26	< 1.27	< 0.16	< 0.26	< 0.94	< 0.27	< 0.13	< 0.30	< 0.14	< 0.22	< 0.16
3,3'-Dimethoxybenzidine	119-90-4	< 0.38	< 1.65	< 0.66	< 3.25	< 0.41	< 0.64	< 3.14	< 0.67	< 0.39	< 0.88	< 0.27	< 0.45	< 0.34
Methylene bis-chloroaniline	101-14-4	< 0.46	< 2.12	< 0.93	< 4.58	< 0.58	< 0.88	< 3.44	< 0.92	< 0.47	< 1.07	< 0.45	< 0.73	< 0.56
3-Paraldehyde	498-60-2	< 0.60	< 0.68	< 1.21	< 1.30	< 0.95	< 1.01	< 1.10	< 1.42	< 0.49	< 1.17	< 0.23	< 0.36	< 0.23
2-Paraldehyde	98-01-1	0.99	< 0.64	< 1.08	< 1.22	0.45	< 0.87	< 0.94	< 1.22	2.53	0.23	0.42	1.01	0.16
Cyclohexylamine	108-91-8	< 0.37	< 0.36	< 0.65	12.95	< 0.52	< 0.50	28.32	< 0.70	< 0.30	< 0.73	< 0.17	< 0.26	< 0.17
N-Nitrosodiethylamine	55-18-5	< 0.78	< 1.00	< 1.53	< 1.83	< 1.21	< 1.25	< 1.17	< 1.75	< 0.64	< 1.55	< 0.27	< 0.42	< 0.27
Cyclohexanone	108-94-1	1.74	< 0.69	< 0.84	< 1.31	3.02	< 0.67	0.70	< 0.93	2.24	9.41	< 0.20	< 0.31	0.42
1,3-Cyclooctadiene	1700-10-3	< 0.40	< 0.45	< 0.82	< 0.92	< 0.65	< 0.64	< 0.57	< 0.90	< 0.33	< 0.80	< 0.15	< 0.24	< 0.15
1,5-Cyclooctadiene	111-78-4	< 0.94	< 1.03	< 1.86	< 2.08	< 1.47	< 1.46	< 1.33	< 2.04	< 0.76	< 1.85	< 0.36	< 0.57	< 0.37
Camphene	79-92-5	< 0.46	< 0.49	< 0.89	< 0.97	2.66	< 0.69	< 0.62	< 0.97	< 0.37	< 0.90	< 0.15	< 0.24	< 0.15
Benzaldehyde	100-52-7	1.58	12.08	86.51	< 1.10	< 0.77	1.86	0.06	2.04	9.01	2.88	12.78	42.62	4.24
Benzonitrile	100-47-0	< 0.20	< 0.25	1.77	< 0.49	< 0.30	< 0.30	< 0.28	< 0.43	< 0.16	< 0.39	< 0.07	2.30	< 0.07
Isooctanol	26952-21-6	< 4.25	< 5.42	< 8.08	< 10.84	< 6.39	< 6.58	< 7.57	187.25	17.31	< 8.37	< 1.85	< 2.88	< 1.88
1,2,4-Trimethylbenzene	95-63-6	0.22	< 0.18	< 0.43	1.70	3.55	1.93	0.56	1.81	< 0.18	1.62	3.79	10.72	1.53
3-Methylstyrene	100-80-1	< 0.30	< 0.30	< 0.59	< 0.63	< 0.46	< 0.46	< 0.37	< 0.64	< 0.24	< 0.59	4.28	12.48	0.31
4-Methylstyrene	622-97-9	< 0.31	< 0.33	< 0.61	< 0.68	< 0.48	< 0.50	< 0.42	< 0.70	< 0.26	< 0.61	< 0.12	< 0.18	< 0.12
4-Chlorostyrene	1073-67-2	< 0.33	< 0.35	< 0.65	< 0.69	< 0.52	< 0.51	< 0.43	< 0.71	< 0.27	< 0.66	< 0.14	< 0.21	< 0.14
1-Dodecene	112-41-4	< 5.66	< 2.02	< 3.56	< 4.39	< 2.64	< 3.05	< 2.36	< 3.50	< 1.48	< 3.47	< 0.64	< 1.03	< 0.66
Phthalimide	85-41-6	< 1.33	< 1.52	< 2.15	< 2.59	< 1.68	0.78	3.74	< 1.84	4.72	143.37	< 0.50	< 0.76	< 0.53
Diphenylamine	122-39-4	62.79	0.25	0.57	0.19	2.22	0.17	0.22	< 0.31	1.18	0.40	10.36	46.67	1.43
Total Detected		78.97	228.35	114.77	177.05	56.15	49.06	57.59	270.95	163.00	411.03	128.04	184.47	22.23
Total with non-detects		< 143.21	< 290.07	< 200.86	< 321.97	< 120.34	< 114.36	< 134.76	< 347.19	< 195.77	< 494.94	< 148.14	< 215.87	< 43.37

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS Numbers	COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Semivol (lb/hr)														
Pyridine	110-86-1	< 3.77E-08	< 5.23E-08	< 8.36E-08	< 1.27E-07	< 5.84E-08	< 6.04E-08	< 8.26E-08	< 8.09E-08	< 3.22E-08	< 7.45E-08	< 2.18E-08	< 3.41E-08	< 2.42E-08
Phenol	108-95-2	3.71E-07	3.04E-07	8.49E-07	9.25E-06	4.24E-07	< 4.31E-08	1.26E-07	1.31E-07	4.71E-06	1.94E-07	9.26E-08	< 1.52E-08	2.07E-07
bis(2-Chloroethyl)ether	111-44-4	< 3.65E-08	< 4.22E-08	< 7.67E-08	< 1.09E-07	< 5.35E-08	< 5.84E-08	< 5.55E-08	< 7.78E-08	< 3.11E-08	< 7.24E-08	< 1.34E-08	< 2.09E-08	< 1.46E-08
2-Chlorophenol	95-57-8	< 2.91E-08	< 2.64E-08	< 6.29E-08	< 7.22E-08	< 4.43E-08	< 4.55E-08	< 3.64E-08	< 6.07E-08	< 2.47E-08	< 5.72E-08	< 1.17E-08	< 1.83E-08	< 1.31E-08
1,3-Dichlorobenzene	541-73-1	< 2.50E-08	< 2.46E-08	< 5.39E-08	< 6.49E-08	< 3.75E-08	< 3.76E-08	< 3.44E-08	< 5.03E-08	< 2.13E-08	< 4.96E-08	< 1.12E-08	< 1.77E-08	< 1.26E-08
1,4-Dichlorobenzene	106-46-7	< 2.54E-08	< 2.33E-08	< 5.39E-08	< 6.24E-08	< 3.75E-08	< 3.86E-08	< 3.23E-08	< 5.15E-08	< 2.17E-08	< 5.03E-08	3.07E-08	4.87E-08	< 1.21E-08
1,2-Dichlorobenzene	95-50-1	< 2.79E-08	< 2.50E-08	< 5.80E-08	< 6.79E-08	< 4.04E-08	< 4.11E-08	< 3.51E-08	< 5.52E-08	< 2.36E-08	< 5.45E-08	< 1.23E-08	< 1.90E-08	< 1.31E-08
2,2'-oxybis(1-Chloropropane)	108-60-1	< 3.08E-08	< 4.96E-08	< 6.57E-08	< 1.23E-07	< 4.57E-08	< 4.90E-08	< 4.03E-08	< 6.56E-08	< 2.62E-08	< 6.07E-08	< 2.06E-08	< 3.22E-08	< 2.27E-08
Benzyl alcohol	100-51-6	< 5.42E-08	3.52E-07	1.54E-07	1.32E-07	2.14E-07	1.15E-07	6.98E-08	1.82E-07	1.43E-07	1.07E-07	1.27E-07	3.17E-07	1.02E-07
2-Methylphenol	95-48-7	< 3.82E-08	< 3.60E-08	< 8.02E-08	< 9.48E-08	< 5.60E-08	< 5.74E-08	6.94E-09	< 7.72E-08	< 3.22E-08	< 7.51E-08	< 1.39E-08	< 2.15E-08	< 1.51E-08
3/4-Methylphenol	108-39-4/106-44-5	< 3.57E-08	< 3.38E-08	< 7.53E-08	< 8.97E-08	< 5.25E-08	< 5.49E-08	< 4.58E-08	< 7.36E-08	< 3.03E-08	< 7.03E-08	< 1.28E-08	< 2.02E-08	2.12E-08
N-Nitroso-di-n-propylamine	621-64-7	< 5.37E-08	< 5.54E-08	< 1.17E-07	< 1.43E-07	< 8.22E-08	< 8.46E-08	< 7.57E-08	< 1.13E-07	< 4.57E-08	< 1.06E-07	< 2.34E-08	< 3.67E-08	< 2.57E-08
Hexachloroethane	67-72-1	< 5.99E-08	1.39E-05	< 1.20E-07	< 1.36E-07	< 8.37E-08	< 8.46E-08	< 7.19E-08	< 1.14E-07	< 5.09E-08	9.44E-08	< 2.29E-08	< 3.54E-08	< 2.52E-08
Nitrobenzene	98-95-3	< 1.03E-07	< 3.29E-08	< 6.98E-08	< 9.40E-08	< 4.37E-08	< 5.44E-08	< 4.13E-08	< 6.01E-08	< 2.81E-08	< 6.34E-08	< 1.28E-08	< 2.02E-08	< 1.41E-08
Isophorone	78-59-1	< 5.74E-08	< 1.85E-08	< 3.80E-08	< 5.13E-08	< 2.48E-08	< 3.07E-08	< 2.40E-08	5.52E-08	2.31E-06	< 3.52E-08	< 7.25E-09	< 1.14E-08	< 8.07E-09
2-Nitrophenol	88-75-5	< 1.74E-07	< 4.66E-08	< 1.21E-07	< 1.45E-07	< 7.88E-08	< 9.65E-08	< 5.62E-08	< 1.06E-07	< 4.72E-08	< 1.07E-07	< 2.12E-08	< 3.41E-08	< 2.37E-08
2,4-Dimethylphenol	105-67-9	< 1.14E-07	< 3.12E-08	< 7.81E-08	3.03E-07	< 5.11E-08	< 6.09E-08	< 4.51E-08	< 6.68E-08	< 3.11E-08	< 6.96E-08	< 1.34E-08	< 2.15E-08	< 1.46E-08
bis(2-Chloroethoxy)methane	111-91-1	< 9.48E-08	< 3.34E-08	< 6.36E-08	< 9.40E-08	< 4.14E-08	< 5.10E-08	< 4.20E-08	< 5.58E-08	< 2.58E-08	< 5.79E-08	< 1.12E-08	< 1.77E-08	< 1.21E-08
Benzoic acid	65-85-0	< 2.60E-07	1.66E-06	< 1.78E-07	< 3.01E-07	< 1.16E-07	2.32E-06	< 8.47E-08	0.00E+00	8.01E-08	6.08E-06	< 2.62E-08	< 4.17E-08	1.18E-07
2,4-Dichlorophenol	120-83-2	< 1.17E-07	< 3.29E-08	< 7.67E-08	< 9.78E-08	< 5.01E-08	< 6.09E-08	< 4.27E-08	< 6.68E-08	< 3.18E-08	< 7.17E-08	< 1.45E-08	< 2.34E-08	< 1.61E-08
1,2,4-Trichlorobenzene	120-82-1	< 9.85E-08	< 2.90E-08	< 6.77E-08	< 8.76E-08	< 4.43E-08	< 5.39E-08	< 3.64E-08	< 5.88E-08	< 2.66E-08	< 6.00E-08	< 1.34E-08	< 2.15E-08	< 1.51E-08
Naphthalene	91-20-3	< 3.61E-08	3.13E-07	2.09E-07	2.92E-07	2.49E-07	1.40E-07	1.17E-07	1.75E-07	3.79E-07	4.95E-07	1.76E-07	6.61E-07	5.35E-08
4-Chloroaniline	106-47-8	< 8.78E-08	< 2.42E-08	< 5.94E-08	< 6.88E-08	< 3.89E-08	6.43E-08	< 3.44E-08	< 4.84E-08	< 2.40E-08	< 5.38E-08	< 1.00E-08	< 1.58E-08	< 1.11E-08
Hexachlorobutadiene	87-68-3	< 1.67E-07	< 4.35E-08	< 1.13E-07	< 1.31E-07	< 7.40E-08	< 8.56E-08	< 5.31E-08	< 9.38E-08	< 4.53E-08	< 1.02E-07	< 2.68E-08	< 4.30E-08	< 2.98E-08
4-Chloro-3-methylphenol	59-50-7	< 1.31E-07	< 3.73E-08	< 8.71E-08	< 1.05E-07	< 5.69E-08	< 6.68E-08	< 4.83E-08	< 7.36E-08	< 3.56E-08	< 8.00E-08	< 1.51E-08	< 2.34E-08	< 1.61E-08
2-Methylnaphthalene	91-57-6	1.85E-07	1.89E-08	2.83E-08	2.95E-08	2.48E-08	1.14E-08	1.25E-08	8.46E-08	1.36E-07	2.41E-08	2.38E-07	6.12E-07	3.18E-08
Hexachlorocyclopentadiene	77-47-4	< 5.91E-08	< 4.57E-08	< 1.64E-07	< 1.20E-07	< 1.13E-07	< 1.26E-07	< 6.80E-08	< 1.20E-07	< 3.84E-08	< 1.25E-07	< 2.46E-08	< 3.73E-08	< 2.83E-08
2,4,6-Trichlorophenol	88-06-2	< 4.47E-08	< 4.66E-08	< 9.19E-08	< 1.29E-07	< 6.37E-08	< 8.36E-08	< 5.42E-08	< 7.91E-08	< 4.42E-08	< 9.51E-08	< 2.68E-08	< 4.04E-08	< 3.03E-08
2,4,5-Trichlorophenol	95-95-4	< 4.27E-08	< 4.70E-08	< 8.78E-08	< 1.26E-07	< 6.08E-08	< 8.26E-08	< 5.48E-08	< 7.85E-08	< 4.19E-08	< 8.96E-08	< 2.51E-08	< 3.79E-08	< 2.88E-08
2-Chloronaphthalene	91-58-7	< 1.60E-08	< 1.54E-08	< 3.32E-08	< 4.23E-08	< 2.29E-08	< 3.02E-08	< 1.98E-08	< 2.88E-08	< 1.61E-08	< 3.45E-08	< 7.81E-09	< 1.14E-08	< 8.58E-09
2-Nitroaniline	88-74-4	< 5.99E-08	< 7.16E-08	< 1.13E-07	< 1.79E-07	< 7.83E-08	< 1.08E-07	< 7.32E-08	< 1.02E-07	< 5.92E-08	< 1.27E-07	< 2.90E-08	< 4.36E-08	< 3.28E-08
Dimethylphthalate	131-11-3	2.09E-08	2.46E-08	5.80E-08	< 3.46E-08	< 1.95E-08	< 2.52E-08	< 1.81E-08	< 2.39E-08	< 1.35E-08	< 2.90E-08	< 7.25E-09	< 1.07E-08	< 8.07E-09
2,6-Dinitrotoluene	606-20-2	< 5.50E-08	< 5.80E-08	< 1.11E-07	< 1.52E-07	< 7.64E-08	< 1.04E-07	< 7.83E-08	< 9.87E-08	< 5.43E-08	< 1.17E-07	< 2.68E-08	< 4.11E-08	< 3.08E-08
2,4-Dinitrotoluene	121-14-2	< 4.18E-08	< 4.57E-08	< 7.05E-08	< 1.22E-07	< 4.87E-08	< 7.32E-08	< 5.48E-08	< 6.93E-08	< 4.12E-08	< 8.82E-08	< 2.18E-08	< 3.22E-08	< 2.42E-08
Acenaphthylene	208-96-8	< 9.85E-09	3.43E-08	1.87E-08	< 2.69E-08	< 1.36E-08	< 1.78E-08	5.21E-09	< 1.72E-08	6.70E-08	< 2.07E-08	< 5.02E-09	< 7.58E-09	< 5.55E-09
3-Nitroaniline	99-09-2	< 5.66E-08	< 5.84E-08	< 8.98E-08	< 1.41E-07	< 6.23E-08	< 9.55E-08	< 7.98E-08	< 9.01E-08	< 5.58E-08	< 1.20E-07	< 2.62E-08	< 3.98E-08	< 2.98E-08
Acenaphthene	83-32-9	< 1.76E-08	< 1.58E-08	< 3.52E-08	5.13E-09	< 2.43E-08	< 3.27E-08	< 2.05E-08	< 3.06E-08	< 1.72E-08	< 3.72E-08	6.70E-09	< 1.26E-08	< 9.59E-09
2,4-Dinitrophenol	105-67-9	< 1.74E-07	< 2.34E-07	< 3.46E-07	< 7.35E-07	< 2.39E-07	1.84E-07	< 2.14E-07	< 2.74E-07	< 1.72E-07	< 3.69E-07	< 6.42E-08	< 9.67E-08	< 7.26E-08
4-Nitrophenol	100-02-7	< 1.33E-07	< 1.18E-07	< 2.20E-07	< 2.85E-07	< 1.52E-07	1.12E-07	< 1.67E-07	< 1.84E-07	< 1.31E-07	< 2.80E-07	< 5.13E-08	< 7.77E-08	< 5.85E-08
Dibenzofuran	132-64-9	1.68E-08	8.35E-09	< 2.21E-08	< 2.78E-08	< 1.56E-08	< 2.08E-08	6.60E-09	4.29E-09	< 1.12E-08	8.27E-09	1.51E-08	1.83E-08	< 6.05E-09
Diethylphthalate	84-66-2	6.56E-08	3.65E-08	6.01E-08	4.70E-09	6.03E-08	4.65E-08	5.14E-08	8.09E-08	6.89E-08	8.48E-08	1.12E-06	1.74E-07	1.67E-07
4-Chlorophenyl-phenylether	70005-72-3	< 3.12E-08	< 2.72E-08	< 6.15E-08	< 7.39E-08	< 4.23E-08	< 5.74E-08	< 2.99E-08	< 5.46E-08	< 3.07E-08	< 6.62E-08	< 1.84E-08	< 2.78E-08	< 2.12E-08
Fluorene	86-73-7	< 1.48E-08	< 1.45E-08	< 2.90E-08	< 3.76E-08	< 1.99E-08	< 2.72E-08	3.12E-09	< 2.57E-08	2.02E-08	7.58E-09	< 7.81E-09	< 1.14E-08	< 8.58E-09
4-Nitroaniline	100-01-6	< 5.42E-08	< 6.41E-08	< 8.29E-08	< 1.43E-07	< 5.74E-08	< 8.12E-08	< 8.75E-08	< 7.66E-08	< 5.32E-08	< 1.14E-07	< 2.90E-08	< 4.42E-08	< 3.33E-08
4,6-Dinitro-2-methylphenol	534-52-1	< 6.81E-08	< 1.70E-07	< 1.88E-07	< 5.26E-07	< 1.26E-07	< 1.74E-07	< 1.44E-07	< 1.29E-07	< 7.86E-08	< 1.68E-07	< 5.02E-08	< 7.39E-08	< 5.90E-08
N-Nitrosodiphenylamine	86-30-6	0.00E+00	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4-Bromophenyl-phenylether	101-55-3	< 4.18E-08	< 5.23E-08	< 1.11E-07	< 1.43E-07	< 7.40E-08	< 1.00E-07	< 6.35E-08	< 7.42E-08	< 4.83E-08	< 1.03E-07	< 3.18E-08	< 4.61E-08	< 3.68E-08
Hexachlorobenzene	118-74-1	< 3.36E-08	< 4.09E-08	< 8.57E-08	< 1.14E-07	< 5.74E-08	< 7.62E-08	< 5.07E-08	< 5.64E-08	< 3.89E-08	< 8.34E-08	< 2.34E-08	< 3.41E-08	< 2.72E-08
Pentachlorophenol	87-86-5	< 4.72E-08	< 1.15E-07	< 1.38E-07	< 3.18E-07	< 9.20E-08	1.42E-07	< 1.11E-07	< 9.13E-08	< 5.43E-08	< 1.16E-07	< 3.96E-08	< 5.75E-08	< 4.59E-08
Phenanthrene	85-01-8	5.95E-08	< 1.19E-08	4.77E-08	3.67E-08	6.76E-08	2.23E-08	2.19E-08	1.41E-08	4.61E-08	4.21E-08	3.07E-08	6.26E-08	2.77E-08
Anthracene	120-12-7	< 8.20E-09	< 1.19E-08	< 2.00E-08	1.20E-08	< 1.31E-08	< 1.93E-08	< 1.53E-08	< 1.47E-08	< 9.73E-09	< 2.07E-08	< 6.70E-09	< 9.48E-09	< 7.57E-09
Di-n-butylphthalate	84-74-2	6.24E-08	0.00E+00	6.84E-08	0.00E+00	6.24E-07	3.31E-07	1.49E-07	4.01E-06	2.45E-07	1.37E-06	3.51E-06	4.25E-07	1.71E-07
Fluoranthene	206-44-0	1.81E-08	1.23E-08	1.66E-08	2.86E-08	1.02E-08	1.19E-08	< 1.60E-08	1.53E-08	< 7.49E-09	< 1.59E-08	< 6.70E-09	< 1.01E-08	< 8.07E-09
Pyrene	129-00-0	6.60E-08	1.07E-07	4.84E-08	7.56E-08	3.02E-08	1.63E-08	1.43E-07	2.27E-08	3.78E-08	1.54E-07	< 6.14E-09	< 1.01E-08	< 8.58E-09
Butylbenzylphthalate	85-68-7	2.09E-08	< 3.60E-08	3.46E-08	< 7.86E-08	3.16E-08	2.08E-08	3.92E-08	0.00E+00	1.83E-08	2.96E-08	2.01E-07	8.78E-08	4.64E-08
3,3'-Dichlorobenzidine	91-94-1	< 2.01E-08	< 8.70E-08	< 4.42E-08	< 1.86E-07	< 2.43E-08	< 4.06E-08	< 2.32E-07	< 4.11E-08	< 2.17E-08	< 4.76E-08	< 2.18E-08	< 3.48E-08	< 2.88E-08
bis(2-Ethylhexyl)phthalate	117-81-7	0.00E+00	5.18E-07	6.59E-07	1.75E-08	1.66E-07	1.48E-07	3.10E-07	1.84E-06	5.77E-08	1.05E-05	3.83E-07	6.21E-07	3.01E-07
Benzo(a)anthracene	56-55-3	< 6.56E-09	< 2.72E-08	< 1.59E-08	< 6.07E-08	< 8.76E-09	< 1.58E-08	< 4.93E-08	< 1.59E-08	< 7.11E-09	< 1.59E-08	< 8.93E-09	< 1.39E-08	< 1.16E-08

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS Numbers	COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Sandrel (lb/hr)														
Chrysene	218-01-9	< 7.38E-09	< 3.03E-08	< 1.73E-08	< 6.83E-08	< 9.73E-09	2.97E-09	< 4.76E-09	< 1.72E-08	< 7.86E-09	< 1.72E-08	1.12E-08	< 1.52E-08	< 1.26E-08
Di-n-octylphthalate	117-84-0	< 3.69E-09	< 2.42E-08	< 7.60E-09	< 5.72E-08	< 4.38E-09	< 1.14E-08	< 4.17E-08	< 1.90E-08	< 3.37E-09	< 8.27E-09	< 5.02E-09	< 8.22E-09	< 6.56E-09
Benzo(b)fluoranthene	205-99-2	< 6.15E-09	< 4.00E-08	< 1.24E-08	< 8.93E-08	< 7.30E-09	< 1.63E-08	< 8.23E-08	< 2.76E-08	< 5.99E-09	< 1.38E-08	< 8.37E-09	< 1.39E-08	< 1.16E-08
Benzo(k)fluoranthene	207-08-9	< 6.56E-09	< 4.09E-08	< 1.38E-08	< 9.48E-08	< 7.78E-09	< 1.68E-08	< 8.68E-08	< 2.88E-08	< 6.37E-09	< 1.45E-08	< 8.93E-09	< 1.52E-08	< 1.21E-08
Benzo(a)pyrene	50-32-8	< 6.56E-09	< 4.70E-08	< 1.38E-08	< 1.06E-07	< 8.27E-09	< 1.73E-08	< 1.02E-07	< 2.94E-08	< 6.74E-09	< 1.52E-08	< 9.49E-09	< 1.52E-08	< 1.26E-08
Indeno(1,2,3-cd)pyrene	193-39-5	< 6.15E-09	< 6.06E-08	< 1.31E-08	< 1.44E-07	< 7.78E-09	< 1.58E-08	< 1.43E-07	< 2.70E-08	< 6.37E-09	< 1.45E-08	< 8.93E-09	< 1.52E-08	< 1.26E-08
Dibenz(a,h)anthracene	53-90-3	< 8.20E-09	< 8.04E-08	< 1.66E-08	< 1.84E-07	< 9.73E-09	< 2.03E-08	< 1.92E-07	< 3.43E-08	< 8.24E-09	< 1.86E-08	< 1.12E-08	< 1.90E-08	< 1.56E-08
Benzo(g,h,i)perylene	191-24-2	3.32E-08	< 7.34E-08	6.50E-08	< 1.71E-07	< 8.76E-09	< 1.78E-08	< 1.79E-07	< 3.00E-08	< 7.11E-09	3.24E-08	< 1.00E-08	< 1.64E-08	< 1.36E-08
n-Nitrosodimethylamine	62-75-9	< 5.50E-08	0.00E+00	< 1.20E-07	0.00E+00	< 8.37E-08	< 9.45E-08	< 1.33E-07	< 1.27E-07	< 4.68E-08	< 1.08E-07	< 3.96E-08	< 6.13E-08	< 4.29E-08
Cumene	98-82-8	< 1.39E-08	3.29E-08	< 3.04E-08	6.88E-08	2.28E-07	1.73E-08	3.58E-08	1.66E-08	< 1.20E-08	3.10E-08	< 5.02E-09	< 7.58E-09	2.62E-08
Aniline	62-53-3	< 2.13E-08	< 3.29E-08	< 4.56E-08	3.74E-06	1.25E-06	< 3.51E-08	4.93E-08	< 4.72E-08	3.21E-06	3.47E-06	< 7.81E-09	< 1.20E-08	< 8.07E-09
Benzyl Chloride	100-44-7	< 1.93E-08	< 2.20E-08	< 4.22E-08	< 3.93E-08	< 2.92E-08	< 3.07E-08	< 2.81E-08	< 4.11E-08	< 1.61E-08	< 3.79E-08	< 7.25E-09	< 1.07E-08	< 7.57E-09
Acetophenone	98-86-2	1.19E-07	1.24E-07	2.06E-07	1.06E-07	4.31E-07	2.82E-07	1.10E-06	2.46E-07	2.00E-07	1.41E-07	3.28E-07	8.89E-07	1.56E-07
n-Nitrosomorpholine	59-89-2	< 5.29E-08	< 6.11E-08	< 1.09E-07	< 1.07E-07	< 7.64E-08	< 8.26E-08	< 6.21E-08	< 1.11E-07	< 4.49E-08	< 1.05E-07	< 2.23E-08	< 3.48E-08	< 2.47E-08
o-Toluidine	95-53-4	< 2.54E-08	< 2.64E-08	< 5.25E-08	< 4.44E-08	< 3.70E-08	< 4.06E-08	< 3.37E-08	< 5.46E-08	< 2.13E-08	< 4.96E-08	2.76E-06	2.52E-06	< 9.08E-09
N,N-Dimethylaniline	121-69-7	< 7.22E-08	< 2.33E-08	< 4.84E-08	< 4.57E-08	< 3.16E-08	< 3.86E-08	< 2.60E-08	< 4.29E-08	< 1.98E-08	< 4.41E-08	< 8.37E-09	< 1.33E-08	< 9.08E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 5.66E-08	< 6.46E-08	< 1.20E-07	< 1.14E-07	< 8.37E-08	< 8.86E-08	< 8.89E-08	< 1.19E-07	< 4.79E-08	< 1.12E-07	< 2.34E-08	< 3.60E-08	< 2.52E-08
o-Anisidine	90-04-0	< 1.30E-07	< 4.88E-08	< 8.85E-08	< 9.23E-08	< 5.74E-08	< 7.03E-08	< 5.03E-08	< 7.72E-08	< 3.52E-08	< 7.93E-08	< 1.56E-08	< 2.46E-08	< 1.72E-08
1,4-Phenylenediamine	106-50-3	< 2.01E-07	< 9.97E-08	< 1.64E-07	< 1.59E-07	< 1.07E-07	< 9.65E-08	< 1.08E-07	< 1.06E-07	< 5.47E-08	< 1.23E-07	< 2.06E-08	< 3.29E-08	< 2.27E-08
N,N-Diethylaniline	91-66-7	< 1.81E-08	< 1.67E-08	< 3.87E-08	< 3.12E-08	< 2.72E-08	< 2.82E-08	< 2.33E-08	< 3.74E-08	< 1.54E-08	< 3.58E-08	< 7.25E-09	< 1.14E-08	< 8.07E-09
a,a,a-Trichlorotoluene	98-07-7	< 8.12E-08	< 2.46E-08	< 5.46E-08	< 5.08E-08	< 3.55E-08	< 4.35E-08	< 2.81E-08	< 4.78E-08	< 2.21E-08	< 4.96E-08	< 9.49E-09	< 1.52E-08	< 1.06E-08
Hydroquinone	123-31-9	< 1.97E-07	< 7.20E-08	< 1.20E-07	< 1.08E-07	< 7.78E-08	< 7.67E-08	< 6.25E-08	< 8.46E-08	< 5.35E-08	< 1.21E-07	< 1.51E-08	< 2.40E-08	< 1.66E-08
2-Chloroacetophenone	1341-24-8	< 5.91E-08	< 1.80E-08	< 4.22E-08	< 3.46E-08	< 2.77E-08	< 2.97E-08	< 2.01E-08	< 3.31E-08	< 1.61E-08	< 3.65E-08	< 5.58E-09	< 8.85E-09	< 6.56E-09
Biphenyl	92-52-4	8.61E-09	< 1.67E-08	< 2.90E-08	< 2.73E-08	< 1.99E-08	< 2.72E-08	< 1.81E-08	< 2.57E-08	6.70E-08	< 2.96E-08	< 6.70E-09	< 1.01E-08	< 7.57E-09
Trifluralin	1582-09-8	< 7.51E-08	< 7.86E-08	< 1.51E-07	< 1.26E-07	< 1.04E-07	< 1.22E-07	< 8.99E-08	< 1.15E-07	< 7.41E-08	< 1.59E-07	< 4.02E-08	< 6.00E-08	< 4.54E-08
4-Aminobiphenyl	92-67-1	< 1.19E-08	< 2.33E-08	< 2.70E-08	< 4.27E-08	< 1.80E-08	< 2.57E-08	< 2.22E-08	< 1.90E-08	< 1.39E-08	< 2.96E-08	< 8.37E-09	< 1.26E-08	< 1.01E-08
Pentachloronitrobenzene	82-68-8	< 1.07E-07	< 1.34E-07	< 2.51E-07	< 2.64E-07	< 1.68E-07	< 2.22E-07	< 1.37E-07	< 1.65E-07	< 1.23E-07	< 2.63E-07	< 6.64E-08	< 9.73E-08	< 7.77E-08
4-Nitrobiphenyl	92-93-3	< 2.42E-08	< 5.27E-08	< 5.39E-08	< 9.27E-08	< 3.60E-08	< 4.80E-08	< 5.00E-08	< 3.56E-08	< 2.77E-08	< 5.93E-08	< 1.90E-08	< 2.78E-08	< 2.22E-08
Benzidine	92-87-5	< 1.64E-08	2.03E-07	< 3.73E-08	< 1.42E-07	< 2.04E-08	< 3.51E-08	< 8.96E-08	< 3.56E-08	< 1.76E-08	< 3.86E-08	< 1.28E-08	< 2.09E-08	< 1.72E-08
4,4'-Methylenedianiline	101-77-9	< 2.50E-08	< 9.66E-08	< 5.25E-08	< 2.08E-07	< 2.87E-08	< 4.85E-08	< 1.56E-07	< 4.84E-08	< 2.70E-08	< 5.86E-08	< 2.23E-08	< 3.60E-08	< 2.98E-08
Dimethylaminoazobenzene	60-11-7	< 1.89E-08	1.85E-07	< 4.49E-08	< 1.84E-07	< 2.48E-08	< 4.06E-08	< 9.37E-08	< 4.05E-08	< 2.02E-08	< 4.41E-08	< 1.84E-08	< 2.97E-08	< 2.47E-08
3,3'-Dimethylbenzidine	119-93-7	< 1.15E-08	< 4.83E-08	< 2.49E-08	< 1.10E-07	< 1.36E-08	< 2.38E-08	< 8.82E-08	< 2.33E-08	< 1.24E-08	< 2.69E-08	< 1.28E-08	< 2.02E-08	< 1.66E-08
3,3'-Dimethoxybenzidine	119-90-4	< 3.40E-08	< 1.36E-07	< 6.43E-08	< 2.80E-07	< 3.55E-08	< 5.74E-08	< 2.94E-07	< 5.76E-08	< 3.63E-08	< 7.93E-08	< 2.37E-08	< 4.17E-08	< 3.43E-08
Methylene bis-chloroaniline	101-14-4	< 4.10E-08	< 1.75E-07	< 9.05E-08	< 3.94E-07	< 4.96E-08	< 7.92E-08	< 3.22E-07	< 7.97E-08	< 4.42E-08	< 9.58E-08	< 4.24E-08	< 6.83E-08	< 5.65E-08
3-Furaldehyde	498-60-2	< 5.37E-08	< 5.62E-08	< 1.18E-07	< 1.12E-07	< 8.22E-08	< 9.11E-08	< 1.03E-07	< 1.22E-07	< 4.57E-08	< 1.05E-07	< 2.12E-08	< 3.35E-08	< 2.37E-08
2-Furaldehyde	98-01-1	8.86E-08	< 5.27E-08	< 1.05E-07	< 1.05E-07	3.84E-08	< 7.82E-08	< 8.78E-08	< 1.05E-07	2.37E-07	2.07E-08	3.91E-08	9.42E-08	1.46E-08
Cyclohexylamine	108-91-8	< 3.32E-08	< 2.99E-08	< 6.36E-08	1.12E-06	< 4.48E-08	< 4.45E-08	2.65E-06	< 6.01E-08	< 2.81E-08	< 6.55E-08	< 1.62E-08	< 2.46E-08	< 1.77E-08
N-Nitrosodiethylamine	55-18-5	< 7.06E-08	< 8.21E-08	< 1.49E-07	< 1.58E-07	< 1.05E-07	< 1.13E-07	< 1.10E-07	< 1.51E-07	< 5.99E-08	< 1.39E-07	< 2.51E-08	< 3.92E-08	< 2.72E-08
Cyclohexanone	108-94-1	1.56E-07	< 5.71E-08	< 8.15E-08	< 1.13E-07	2.60E-07	< 5.99E-08	6.53E-08	< 8.03E-08	2.10E-07	8.46E-07	< 1.90E-08	< 2.91E-08	4.29E-08
1,3-Cyclooctadiene	1700-10-3	< 3.61E-08	< 3.69E-08	< 8.02E-08	< 7.90E-08	< 5.60E-08	< 5.79E-08	< 5.33E-08	< 7.78E-08	< 3.07E-08	< 7.17E-08	< 1.45E-08	< 2.21E-08	< 1.56E-08
1,5-Cyclooctadiene	111-78-4	< 8.45E-08	< 8.52E-08	< 1.81E-07	< 1.79E-07	< 1.27E-07	< 1.31E-07	< 1.24E-07	< 1.76E-07	< 7.15E-08	< 1.66E-07	< 3.40E-08	< 5.31E-08	< 3.73E-08
Camphene	79-92-5	< 4.10E-08	< 4.04E-08	< 8.71E-08	< 8.33E-08	2.29E-07	< 6.24E-08	< 5.80E-08	< 8.40E-08	< 3.48E-08	< 8.07E-08	< 1.39E-08	< 2.21E-08	< 1.56E-08
Benzaldehyde	100-52-7	1.42E-07	9.96E-07	8.43E-06	< 9.48E-08	< 6.62E-08	1.67E-07	5.21E-09	1.76E-07	8.44E-07	2.59E-07	1.20E-06	3.99E-06	4.29E-07
Benzonitrile	100-47-0	< 1.81E-08	< 2.02E-08	1.73E-07	< 4.23E-08	< 2.63E-08	< 2.72E-08	< 2.64E-08	< 3.68E-08	< 1.54E-08	< 3.52E-08	< 6.70E-09	2.16E-07	< 7.06E-09
Isooctanol	26952-21-6	< 3.82E-07	< 4.46E-07	< 7.87E-07	< 9.34E-07	< 5.50E-07	< 5.92E-07	< 7.09E-07	1.61E-05	1.62E-06	< 7.53E-07	< 1.74E-07	< 2.70E-07	< 1.90E-07
1,2,4-Trimethylbenzene	95-63-6	1.97E-08	< 1.49E-08	< 4.15E-08	1.46E-07	3.06E-07	1.73E-07	5.24E-08	1.56E-07	< 1.68E-08	1.45E-07	3.55E-07	1.00E-06	1.55E-07
3-Methylstyrene	100-80-1	< 2.67E-08	< 2.46E-08	< 5.74E-08	< 5.42E-08	< 3.99E-08	< 4.11E-08	< 3.51E-08	< 5.52E-08	< 2.28E-08	< 5.31E-08	4.01E-07	1.17E-06	3.13E-08
4-Methylstyrene	622-97-9	< 2.79E-08	< 2.72E-08	< 5.94E-08	< 5.89E-08	< 4.14E-08	< 4.45E-08	< 3.96E-08	< 6.01E-08	< 2.40E-08	< 5.52E-08	< 1.12E-08	< 1.71E-08	< 1.21E-08
4-Chlorostyrene	1073-67-2	< 2.99E-08	< 2.86E-08	< 6.36E-08	< 5.98E-08	< 4.48E-08	< 4.60E-08	< 3.99E-08	< 6.13E-08	< 2.55E-08	< 5.93E-08	< 1.28E-08	< 1.96E-08	< 1.41E-08
1-Dodecene	112-41-4	< 5.09E-07	< 1.66E-07	< 3.47E-07	< 3.78E-07	< 2.27E-07	< 2.74E-07	< 2.21E-07	< 3.02E-07	< 1.38E-07	< 3.12E-07	< 6.03E-08	< 9.67E-08	< 6.66E-08
Phthalimide	85-41-6	< 1.20E-07	< 1.25E-07	< 2.09E-07	< 2.23E-07	< 1.45E-07	7.03E-08	3.50E-07	< 1.59E-07	4.42E-07	1.29E-05	< 4.69E-08	< 7.08E-08	< 5.35E-08
Diphenylamine	122-39-4	5.65E-06	2.02E-08	5.60E-08	1.67E-08	1.91E-07	1.53E-08	2.05E-08	< 2.64E-08	1.10E-07	3.58E-08	9.70E-07	4.57E-06	1.45E-07
Total Detected		7.10E-06	1.88E-05	1.12E-05	1.53E-05	4.84E-06	4.41E-06	5.39E-06	2.33E-05	1.53E-05	3.70E-05	1.20E-05	1.73E-05	2.25E-06
Total with non-detects		< 1.29E-05	< 2.39E-05	< 1.96E-05	< 2.77E-05	< 1.04E-05	< 1.03E-05	< 1.26E-05	< 2.99E-05	< 1.83E-05	< 4.45E-05	< 1.39E-05	< 2.02E-05	< 4.39E-06

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS Numbers	COMPOUND #14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Semivol (lb/lb rubber)														
Pyridine	110-86-1	< 5.41E-09	< 4.64E-09	< 4.50E-09	< 1.75E-08	< 7.74E-09	< 5.32E-09	< 1.21E-08	< 3.77E-09	< 4.69E-09	< 4.78E-09	< 2.65E-09	< 3.80E-09	< 2.87E-09
Phenol	108-95-2	5.33E-08	2.69E-08	4.56E-08	1.27E-06	5.63E-08	< 3.79E-09	1.84E-08	9.35E-09	6.87E-07	1.25E-08	1.13E-08	< 1.69E-09	2.45E-08
bis(2-Chloroethyl)ether	111-44-4	< 5.24E-09	< 3.74E-09	< 4.12E-09	< 1.50E-08	< 7.10E-09	< 5.14E-09	< 8.11E-09	< 5.55E-09	< 4.53E-09	< 4.64E-09	< 1.63E-09	< 2.32E-09	< 1.74E-09
2-Chlorophenol	95-57-8	< 4.18E-09	< 2.34E-09	< 3.38E-09	< 9.90E-09	< 5.87E-09	< 4.01E-09	< 5.32E-09	< 4.33E-09	< 3.60E-09	< 3.67E-09	< 1.43E-09	< 2.04E-09	< 1.56E-09
1,3-Dichlorobenzene	541-73-1	< 3.59E-09	< 2.18E-09	< 2.90E-09	< 8.91E-09	< 4.97E-09	< 3.31E-09	< 5.02E-09	< 3.58E-09	< 3.11E-09	< 3.18E-09	< 1.36E-09	< 1.97E-09	< 1.50E-09
1,4-Dichlorobenzene	106-46-7	< 3.65E-09	< 2.07E-09	< 2.90E-09	< 8.55E-09	< 4.97E-09	< 3.40E-09	< 4.71E-09	< 3.67E-09	< 3.17E-09	< 3.23E-09	3.74E-09	< 3.42E-09	< 1.44E-09
1,2-Dichlorobenzene	95-50-1	< 4.00E-09	< 2.22E-09	< 3.12E-09	< 9.32E-09	< 5.36E-09	< 3.62E-09	< 5.12E-09	< 3.93E-09	< 3.44E-09	< 3.49E-09	< 1.50E-09	< 2.11E-09	< 1.56E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 4.41E-09	< 4.40E-09	< 3.53E-09	< 1.68E-08	< 6.07E-09	< 4.32E-09	< 5.88E-09	< 4.67E-09	< 3.82E-09	< 3.89E-09	< 2.52E-09	< 3.59E-09	< 2.69E-09
Benzyl alcohol	100-51-6	< 7.77E-09	2.94E-08	8.29E-09	< 1.82E-08	2.83E-08	1.02E-08	1.02E-08	1.30E-08	2.09E-08	< 6.85E-09	1.55E-08	3.54E-08	1.21E-08
2-Methylphenol	95-48-7	< 5.47E-09	< 3.20E-09	< 4.31E-09	< 1.30E-08	< 7.42E-09	< 5.06E-09	1.01E-09	< 5.50E-09	< 4.69E-09	< 4.82E-09	< 1.70E-09	< 2.40E-09	< 1.80E-09
3/4-Methylphenol	108-39-4/106-44-5	< 5.12E-09	< 3.00E-09	< 4.05E-09	< 1.23E-08	< 6.97E-09	< 4.84E-09	< 6.69E-09	< 5.24E-09	< 4.42E-09	< 4.51E-09	< 1.57E-09	< 2.25E-09	2.51E-09
N-Nitroso-di-n-propylamine	621-64-7	< 7.71E-09	< 4.91E-09	< 6.32E-09	< 1.96E-08	< 1.09E-08	< 7.46E-09	< 1.10E-08	< 8.08E-09	< 6.66E-09	< 6.81E-09	< 2.86E-09	< 4.09E-09	< 3.05E-09
Hexachloroethane	67-72-1	< 8.39E-09	1.23E-06	< 6.43E-09	< 1.87E-08	< 1.11E-08	< 7.46E-09	< 1.05E-08	< 8.13E-09	< 7.42E-09	6.06E-09	< 2.79E-09	< 3.95E-09	< 2.99E-09
Nitrobenzene	98-95-3	< 1.48E-08	< 2.92E-09	< 3.75E-09	< 1.29E-08	< 6.07E-09	< 4.80E-09	< 6.03E-09	< 4.28E-09	< 4.09E-09	< 4.07E-09	< 1.57E-09	< 2.25E-09	< 1.68E-09
Isophorone	78-59-1	< 8.24E-09	< 1.64E-09	< 2.04E-09	< 7.03E-09	< 3.29E-09	< 2.70E-09	< 3.50E-09	3.93E-09	3.37E-07	< 2.26E-09	< 8.85E-10	< 1.27E-09	< 9.57E-10
2-Nitrophenol	88-75-5	< 2.50E-08	< 4.13E-09	< 6.50E-09	< 1.99E-08	< 1.05E-08	< 8.50E-09	< 8.21E-09	< 7.56E-09	< 6.88E-09	< 6.85E-09	< 2.59E-09	< 3.80E-09	< 2.81E-09
2,4-Dimethylphenol	105-67-9	< 1.64E-08	< 2.77E-09	< 4.20E-09	4.16E-08	< 6.78E-09	< 5.36E-09	< 6.59E-09	< 4.76E-09	< 4.53E-09	< 4.47E-09	< 1.63E-09	< 2.40E-09	< 1.74E-09
bis(2-Chloroethoxy)methane	111-91-1	< 1.36E-08	< 2.96E-09	< 3.42E-09	< 1.29E-08	< 5.49E-09	< 4.49E-09	< 6.13E-09	< 3.98E-09	< 3.77E-09	< 3.71E-09	< 1.36E-09	< 1.97E-09	< 1.44E-09
Benzoic acid	65-85-0	< 3.73E-08	1.47E-07	< 9.55E-09	< 4.12E-08	< 1.54E-08	2.04E-07	< 1.24E-08	0.00E+00	1.17E-08	3.90E-07	< 3.20E-09	< 4.65E-09	1.39E-08
2,4-Dichlorophenol	120-83-2	< 1.67E-08	< 2.92E-09	< 4.12E-09	< 1.34E-08	< 6.65E-09	< 5.36E-09	< 6.23E-09	< 4.76E-09	< 4.64E-09	< 4.60E-09	< 1.77E-09	< 2.61E-09	< 1.91E-09
1,2,4-Trichlorobenzene	120-82-1	< 1.41E-08	< 2.57E-09	< 3.64E-09	< 1.20E-08	< 5.87E-09	< 4.75E-09	< 5.32E-09	< 4.19E-09	< 3.88E-09	< 3.85E-09	< 1.63E-09	< 2.40E-09	< 1.80E-09
Naphthalene	91-20-3	< 5.18E-09	2.78E-08	1.13E-08	4.01E-08	3.30E-08	1.23E-08	1.71E-08	1.25E-08	5.52E-08	3.18E-08	2.14E-08	7.37E-08	6.34E-09
4-Chloroaniline	106-47-8	< 1.26E-08	< 2.14E-09	< 3.20E-09	< 9.43E-09	< 5.16E-09	5.67E-09	< 5.02E-09	< 3.45E-09	< 3.49E-09	< 3.45E-09	< 1.22E-09	< 1.76E-09	< 1.32E-09
Hexachlorobutadiene	87-68-3	< 2.40E-08	< 3.86E-09	< 6.09E-09	< 1.80E-08	< 9.81E-09	< 7.54E-09	< 7.75E-09	< 6.68E-09	< 6.60E-09	< 6.54E-09	< 3.27E-09	< 4.79E-09	< 3.53E-09
4-Chloro-3-methylphenol	59-50-7	< 1.88E-08	< 3.31E-09	< 4.68E-09	< 1.44E-08	< 7.55E-09	< 5.89E-09	< 7.04E-09	< 5.24E-09	< 5.19E-09	< 5.13E-09	< 1.84E-09	< 2.61E-09	< 1.91E-09
2-Methylnaphthalene	91-57-6	2.66E-08	1.68E-09	1.52E-09	4.04E-09	3.29E-09	1.00E-09	1.82E-09	6.03E-09	1.99E-08	1.55E-09	2.90E-08	6.82E-08	3.77E-09
Hexachlorocyclopentadiene	77-47-4	< 8.48E-09	< 4.05E-09	< 8.81E-09	< 1.64E-08	< 1.50E-08	< 1.11E-08	< 9.93E-09	< 8.52E-09	< 8.51E-09	< 8.00E-09	< 2.99E-09	< 4.16E-09	< 3.35E-09
2,4,6-Trichlorophenol	88-06-2	< 6.42E-09	< 4.13E-09	< 4.94E-09	< 1.76E-08	< 8.45E-09	< 7.37E-09	< 7.91E-09	< 5.64E-09	< 6.44E-09	< 6.10E-09	< 3.27E-09	< 4.51E-09	< 3.59E-09
2,4,5-Trichlorophenol	95-95-4	< 6.12E-09	< 4.17E-09	< 4.72E-09	< 1.72E-08	< 8.07E-09	< 7.28E-09	< 8.01E-09	< 5.59E-09	< 6.11E-09	< 5.75E-09	< 3.06E-09	< 4.23E-09	< 3.41E-09
2-Chloronaphthalene	91-58-7	< 2.30E-09	< 1.36E-09	< 1.78E-09	< 5.80E-09	< 3.03E-09	< 2.66E-09	< 2.89E-09	< 2.05E-09	< 2.35E-09	< 2.21E-09	< 9.53E-10	< 1.27E-09	< 1.02E-09
2-Nitroaniline	88-74-4	< 8.59E-09	< 6.35E-09	< 6.09E-09	< 2.45E-08	< 1.04E-08	< 9.50E-09	< 1.07E-08	< 7.30E-09	< 8.62E-09	< 8.14E-09	< 3.54E-09	< 4.86E-09	< 3.89E-09
Dimethylphthalate	131-11-3	3.00E-09	2.18E-09	3.12E-09	< 4.75E-09	< 2.58E-09	< 2.22E-09	< 2.64E-09	< 1.70E-09	< 1.96E-09	< 1.86E-09	< 8.85E-10	< 1.20E-09	< 9.57E-10
2,6-Dinitrotoluene	606-20-2	< 7.89E-09	< 5.15E-09	< 5.94E-09	< 2.09E-08	< 1.01E-08	< 9.16E-09	< 1.15E-08	< 7.03E-09	< 7.91E-09	< 7.47E-09	< 3.27E-09	< 4.58E-09	< 3.65E-09
2,4-Dinitrotoluene	121-14-2	< 6.00E-09	< 4.05E-09	< 3.79E-09	< 1.68E-08	< 6.45E-09	< 6.45E-09	< 8.01E-09	< 4.94E-09	< 6.00E-09	< 5.66E-09	< 2.65E-09	< 3.59E-09	< 2.87E-09
Acenaphthylene	208-96-8	< 1.41E-09	3.04E-09	1.00E-09	< 3.69E-09	< 1.81E-09	< 1.57E-09	7.60E-10	< 1.22E-09	9.77E-09	< 1.33E-09	< 6.12E-10	< 8.45E-10	< 6.58E-10
3-Nitroaniline	99-09-2	< 8.12E-09	< 5.18E-09	< 4.83E-09	< 1.94E-08	< 8.26E-09	< 8.41E-09	< 1.17E-08	< 6.42E-09	< 8.13E-09	< 7.69E-09	< 3.20E-09	< 4.44E-09	< 3.33E-09
Acenaphthene	83-32-9	< 2.53E-09	< 1.40E-09	< 1.89E-09	7.03E-10	< 3.23E-09	< 2.88E-09	< 2.99E-09	< 2.18E-09	< 2.51E-09	< 2.39E-09	8.17E-10	< 1.41E-09	< 1.14E-09
2,4-Dinitrophenol	105-67-9	< 2.50E-08	< 2.07E-08	< 1.86E-08	< 1.01E-07	< 3.17E-08	1.62E-08	< 3.12E-08	< 1.95E-08	< 2.51E-08	< 2.37E-08	< 7.83E-09	< 1.08E-08	< 8.62E-09
4-Nitrophenol	100-02-7	< 1.90E-08	< 1.05E-08	< 1.18E-08	< 3.91E-08	< 2.01E-08	9.90E-09	< 2.44E-08	< 1.31E-08	< 1.90E-08	< 1.80E-08	< 6.26E-09	< 8.67E-09	< 6.94E-09
Dibenzofuran	132-64-9	2.41E-09	7.41E-10	< 1.19E-09	< 3.81E-09	< 2.06E-09	< 1.83E-09	9.63E-10	3.06E-10	< 1.64E-09	5.31E-10	1.84E-09	2.04E-09	< 7.18E-10
Diethylphthalate	84-66-2	9.42E-09	3.24E-09	3.23E-09	6.44E-10	8.00E-09	4.10E-09	7.50E-09	5.77E-09	1.00E-08	5.44E-09	1.36E-07	1.94E-08	1.98E-08
4-Chlorophenyl-phenylether	70005-72-3	< 4.47E-09	< 2.42E-09	< 3.31E-09	< 1.01E-08	< 5.61E-09	< 5.06E-09	< 4.36E-09	< 3.89E-09	< 4.48E-09	< 4.25E-09	< 2.25E-09	< 3.10E-09	< 2.51E-09
Fluorene	86-73-7	< 2.12E-09	< 1.29E-09	< 1.56E-09	< 5.16E-09	< 2.65E-09	< 2.40E-09	4.56E-10	< 1.83E-09	2.95E-09	4.86E-10	< 9.53E-10	< 1.27E-09	< 1.02E-09
4-Nitroaniline	100-01-6	< 7.77E-09	< 5.69E-09	< 4.46E-09	< 1.96E-08	< 7.61E-09	< 7.15E-09	< 1.28E-08	< 5.46E-09	< 7.75E-09	< 7.34E-09	< 3.54E-09	< 4.93E-09	< 3.95E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 9.77E-09	< 1.51E-08	< 1.01E-08	< 7.21E-08	< 1.66E-08	< 1.53E-08	< 2.10E-08	< 9.17E-09	< 1.15E-08	< 1.07E-08	< 6.12E-09	< 8.24E-09	< 7.00E-09
N-Nitrosodiphenylamine	86-30-6	0.00E+00	2.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4-Bromophenyl-phenylether	101-55-3	< 6.00E-09	< 4.64E-09	< 5.94E-09	< 1.96E-08	< 9.81E-09	< 8.81E-09	< 9.27E-09	< 5.29E-09	< 7.04E-09	< 6.63E-09	< 3.88E-09	< 5.14E-09	< 4.37E-09
Hexachlorobenzene	118-74-1	< 4.83E-09	< 3.63E-09	< 4.61E-09	< 1.56E-08	< 7.61E-09	< 6.71E-09	< 7.40E-09	< 4.02E-09	< 5.68E-09	< 5.35E-09	< 2.86E-09	< 3.80E-09	< 3.23E-09
Pentachlorophenol	87-86-5	< 6.77E-09	< 1.02E-08	< 7.43E-09	< 4.36E-08	< 1.22E-08	1.25E-08	< 1.63E-08	< 6.51E-09	< 7.91E-09	< 7.43E-09	< 4.83E-09	< 6.41E-09	< 5.45E-09
Phenanthrene	85-01-8	8.53E-09	< 1.05E-09	2.56E-09	5.04E-09	8.97E-09	1.96E-09	3.19E-09	1.00E-09	6.71E-09	2.70E-09	3.74E-09	6.97E-09	3.29E-09
Anthracene	120-12-7	< 1.18E-09	< 1.05E-09	< 1.08E-09	1.64E-09	< 1.74E-09	< 1.70E-09	< 2.23E-09	< 1.05E-09	< 1.42E-09	< 1.33E-09	< 8.17E-10	< 1.06E-09	< 8.98E-10
Di-n-butylphthalate	84-74-2	8.95E-09	0.00E+00	3.68E-09	0.00E+00	8.27E-08	2.91E-08	2.17E-08	2.86E-07	3.57E-08	8.78E-08	4.29E-07	4.74E-08	2.03E-08
Fluoranthene	206-44-0	2.59E-09	< 1.09E-09	8.92E-10	3.93E-09	1.36E-09	1.05E-09	< 2.33E-09	1.09E-09	< 1.09E-09	< 1.02E-09	< 8.17E-10	< 1.13E-09	< 9.57E-10
Pyrene	129-00-0	9.48E-09	9.47E-09	2.60E-09	1.04E-08	4.00E-09	1.44E-09	2.09E-08	1.62E-09	5.51E-09	9.91E-09	< 7.49E-10	< 1.13E-09	< 1.02E-09
Butylbenzylphthalate	85-68-7	3.00E-09	< 3.20E-09	1.86E-09	< 1.08E-08	4.19E-09	1.83E-09	5.73E-09	0.00E+00	2.67E-09	1.90E-09	2.46E-08	9.79E-09	5.51E-09
3,3'-Dichlorobenzidine	91-94-1	< 2.88E-09	< 7.72E-09	< 2.38E-09	< 2.55E-08	< 3.23E-09	< 3.58E-09	< 3.39E-08	< 2.93E-09	< 3.17E-09	< 3.05E-09	< 2.65E-09	< 3.87E-09	< 3.41E-09
bis(2-Ethylhexyl)phthalate	117-81-7	0.00E+00	4.60E-08	3.54E-08	2.40E-09	2.20E-08	1.31E-08	4.53E-08	1.31E-07	8.41E-09	6.74E-07	4.67E-08	6.93E-08	3.57E-08
Benzo(a)anthracene	56-55-3	< 9.42E-10	< 2.42E-09	< 8.55E-10	< 8.32E-09	< 1.16E-09	< 1.40E-09	< 7.20E-09	< 1.14E-09	< 1.04E-09	< 1.02E-09	< 1.09E-09	< 1.55E-09	< 1.38E-09

TRC

TABLE B.1-2

SMALL MIXER 2 SPECIATED SEMIVOLATILES SUMMARY

	CAS	COMPOUND												
	Numbers	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Semivol (lb/lb rubber)														
Chrysene	218-01-9	< 1.06E-09	< 2.69E-09	< 9.29E-10	< 9.37E-09	< 1.29E-09	2.62E-10	< 6.94E-09	< 1.22E-09	< 1.15E-09	< 1.11E-09	1.36E-09	< 1.69E-09	< 1.50E-09
Di-n-octylphthalate	117-84-0	< 5.30E-10	< 2.14E-09	< 4.09E-10	< 7.85E-09	< 5.81E-10	< 1.00E-09	< 6.08E-09	< 1.35E-09	< 4.91E-10	< 5.31E-10	< 6.12E-10	< 9.16E-10	< 7.78E-10
Benzo(b)fluoranthene	205-99-2	< 8.83E-10	< 3.55E-09	< 6.69E-10	< 1.22E-08	< 9.68E-10	< 1.44E-09	< 1.20E-08	< 1.97E-09	< 8.73E-10	< 8.84E-10	< 1.02E-09	< 1.55E-09	< 1.38E-09
Benzo(k)fluoranthene	207-08-9	< 9.42E-10	< 3.63E-09	< 7.43E-10	< 1.30E-08	< 1.03E-09	< 1.48E-09	< 1.27E-08	< 2.05E-09	< 9.28E-10	< 9.29E-10	< 1.09E-09	< 1.69E-09	< 1.44E-09
Benzo(a)pyrene	50-32-8	< 9.42E-10	< 4.17E-09	< 7.43E-10	< 1.46E-08	< 1.10E-09	< 1.53E-09	< 1.49E-08	< 2.10E-09	< 9.82E-10	< 9.73E-10	< 1.16E-09	< 1.69E-09	< 1.50E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 8.83E-10	< 5.38E-09	< 7.06E-10	< 1.98E-08	< 1.03E-09	< 1.40E-09	< 2.08E-08	< 1.92E-09	< 9.28E-10	< 9.29E-10	< 1.09E-09	< 1.69E-09	< 1.50E-09
Dibenz(a,h)anthracene	53-90-3	< 1.18E-09	< 7.13E-09	< 8.92E-10	< 2.53E-08	< 1.29E-09	< 1.79E-09	< 2.80E-08	< 2.45E-09	< 1.20E-09	< 1.19E-09	< 1.36E-09	< 2.11E-09	< 1.86E-09
Benzo(g,h,i)perylene	191-24-2	4.77E-09	< 6.51E-09	3.49E-09	< 2.35E-08	< 1.16E-09	< 1.57E-09	< 2.61E-08	< 2.14E-09	< 1.04E-09	2.08E-09	< 1.22E-09	< 1.83E-09	< 1.62E-09
n-Nitrosodimethylamine	62-75-9	< 7.89E-09	0.00E+00	< 6.43E-09	0.00E+00	< 1.11E-08	< 8.33E-09	< 1.94E-08	< 9.04E-09	< 6.82E-09	< 6.94E-09	< 4.83E-09	< 6.83E-09	< 5.09E-09
Cumene	98-82-8	< 2.00E-09	2.92E-09	< 1.63E-09	9.43E-09	3.02E-08	1.53E-09	5.22E-09	1.18E-09	< 1.75E-09	1.99E-09	< 6.12E-10	< 8.45E-10	3.11E-09
Aniline	62-53-3	< 3.06E-09	< 2.92E-09	< 2.45E-09	5.13E-07	1.66E-07	< 3.10E-09	7.20E-09	< 3.36E-09	4.68E-07	2.23E-07	< 9.53E-10	< 1.34E-09	< 9.57E-10
Benzyl Chloride	100-44-7	< 2.77E-09	< 1.95E-09	< 2.27E-09	< 5.39E-09	< 3.87E-09	< 2.70E-09	< 4.10E-09	< 2.91E-09	< 2.35E-09	< 2.43E-09	< 8.85E-10	< 1.20E-09	< 8.98E-10
Acetophenone	98-86-2	1.70E-08	1.10E-08	1.11E-08	1.45E-08	5.72E-08	2.48E-08	1.61E-07	1.76E-08	2.92E-08	9.02E-09	4.00E-08	9.91E-08	1.86E-08
n-Nitrosomorpholine	59-89-2	< 7.59E-09	< 5.42E-09	< 5.87E-09	< 1.46E-08	< 1.01E-08	< 7.28E-09	< 9.07E-09	< 7.91E-09	< 6.55E-09	< 6.72E-09	< 2.72E-09	< 3.87E-09	< 2.93E-09
o-Toluidine	95-53-4	< 3.65E-09	< 2.34E-09	< 2.82E-09	< 6.09E-09	< 4.90E-09	< 3.58E-09	< 4.92E-09	< 3.89E-09	< 3.11E-09	< 3.18E-09	3.36E-07	2.80E-07	< 1.08E-09
N,N-Dimethylaniline	121-69-7	< 1.04E-08	< 2.07E-09	< 2.60E-09	< 6.27E-09	< 4.19E-09	< 3.40E-09	< 3.80E-09	< 3.06E-09	< 2.89E-09	< 2.83E-09	< 1.02E-09	< 1.48E-09	< 1.08E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 8.12E-09	< 5.73E-09	< 6.43E-09	< 1.56E-08	< 1.11E-08	< 7.80E-09	< 1.30E-08	< 8.48E-09	< 6.99E-09	< 7.16E-09	< 2.86E-09	< 4.02E-09	< 2.99E-09
o-Anisidine	90-04-0	< 1.86E-08	< 4.33E-09	< 4.76E-09	< 1.27E-08	< 7.61E-09	< 6.19E-09	< 7.35E-09	< 5.50E-09	< 5.13E-09	< 5.09E-09	< 1.91E-09	< 2.75E-09	< 2.03E-09
1,4-Phenylenediamine	106-50-3	< 2.88E-08	< 8.85E-09	< 8.81E-09	< 2.19E-08	< 1.42E-08	< 8.50E-09	< 1.58E-08	< 7.56E-09	< 7.97E-09	< 7.92E-09	< 2.52E-09	< 3.66E-09	< 2.69E-09
N,N-Diethylaniline	91-66-7	< 2.59E-09	< 1.48E-09	< 2.08E-09	< 4.28E-09	< 3.61E-09	< 2.49E-09	< 3.40E-09	< 2.67E-09	< 2.24E-09	< 2.30E-09	< 8.85E-10	< 1.27E-09	< 9.57E-10
a,a,a-Trichlorotoluene	98-07-7	< 1.17E-08	< 2.18E-09	< 2.94E-09	< 6.97E-09	< 4.71E-09	< 3.84E-09	< 4.10E-09	< 3.41E-09	< 3.22E-09	< 3.18E-09	< 1.16E-09	< 1.69E-09	< 1.26E-09
Hydroquinone	123-31-9	< 2.83E-08	< 6.39E-09	< 6.43E-09	< 1.48E-08	< 1.03E-08	< 6.76E-09	< 9.12E-09	< 6.03E-09	< 7.80E-09	< 7.74E-09	< 1.84E-09	< 2.68E-09	< 1.97E-09
2-Chloroacetophenone	1341-24-8	< 8.48E-09	< 1.60E-09	< 2.27E-09	< 4.75E-09	< 3.68E-09	< 2.62E-09	< 2.94E-09	< 2.36E-09	< 2.35E-09	< 2.34E-09	< 6.80E-10	< 9.86E-10	< 7.78E-10
Biphenyl	92-52-4	1.24E-09	< 1.48E-09	< 1.56E-09	< 3.75E-09	< 2.65E-09	< 2.40E-09	< 2.64E-09	< 1.83E-09	9.77E-09	< 1.90E-09	< 8.17E-10	< 1.13E-09	< 8.98E-10
Trifluralin	1582-09-8	< 1.08E-08	< 6.98E-09	< 8.10E-09	< 1.73E-08	< 1.38E-08	< 1.07E-08	< 1.31E-08	< 8.21E-09	< 1.08E-08	< 1.02E-08	< 4.90E-09	< 6.69E-09	< 5.39E-09
4-Aminobiphenyl	92-67-1	< 1.71E-09	< 2.07E-09	< 1.45E-09	< 5.86E-09	< 2.39E-09	< 2.27E-09	< 3.24E-09	< 1.35E-09	< 2.02E-09	< 1.90E-09	< 1.02E-09	< 1.41E-09	< 1.20E-09
Pentachloronitrobenzene	82-68-8	< 1.53E-08	< 1.18E-08	< 1.35E-08	< 3.63E-08	< 2.23E-08	< 1.96E-08	< 2.01E-08	< 1.18E-08	< 1.80E-08	< 1.68E-08	< 8.10E-09	< 1.08E-08	< 9.22E-09
4-Nitrobiphenyl	92-93-3	< 3.47E-09	< 4.68E-09	< 2.90E-09	< 1.27E-08	< 4.78E-09	< 4.23E-09	< 7.30E-09	< 2.53E-09	< 4.04E-09	< 3.80E-09	< 2.31E-09	< 3.10E-09	< 2.63E-09
Benzidine	92-87-5	< 2.35E-09	1.80E-08	< 2.01E-09	< 1.95E-08	< 2.71E-09	< 3.10E-09	< 1.31E-08	< 2.53E-09	< 2.57E-09	< 2.48E-09	< 1.57E-09	< 2.32E-09	< 2.03E-09
4,4'-Methylenedianiline	101-77-9	< 3.59E-09	< 8.58E-09	< 2.82E-09	< 2.85E-08	< 3.81E-09	< 4.27E-09	< 2.28E-08	< 3.45E-09	< 3.93E-09	< 3.76E-09	< 2.72E-09	< 4.02E-09	< 3.53E-09
Dimethylaminoazobenzene	60-11-7	< 2.71E-09	1.64E-08	< 2.42E-09	< 2.52E-08	< 3.29E-09	< 3.58E-09	< 1.37E-08	< 2.88E-09	< 2.95E-09	< 2.83E-09	< 2.25E-09	< 3.31E-09	< 2.93E-09
3,3'-Dimethylbenzidine	119-93-7	< 1.65E-09	< 4.29E-09	< 1.34E-09	< 1.51E-08	< 1.81E-09	< 2.09E-09	< 1.29E-08	< 1.66E-09	< 1.80E-09	< 1.72E-09	< 1.57E-09	< 2.25E-09	< 1.97E-09
3,3'-Dimethoxybenzidine	119-90-4	< 4.89E-09	< 1.21E-08	< 3.46E-09	< 3.84E-08	< 4.71E-09	< 5.06E-09	< 4.29E-08	< 4.11E-09	< 5.29E-09	< 5.09E-09	< 3.13E-09	< 4.65E-09	< 4.07E-09
Methylene bis-chloroaniline	101-14-4	< 5.89E-09	< 1.55E-08	< 4.87E-09	< 5.41E-08	< 6.58E-09	< 6.98E-09	< 4.70E-08	< 5.68E-09	< 6.44E-09	< 6.15E-09	< 5.17E-09	< 7.61E-09	< 6.70E-09
3-Furaldehyde	498-60-2	< 7.71E-09	< 4.99E-09	< 6.35E-09	< 1.54E-08	< 1.09E-08	< 8.02E-09	< 1.51E-08	< 8.69E-09	< 6.66E-09	< 6.77E-09	< 2.59E-09	< 3.73E-09	< 2.81E-09
2-Furaldehyde	98-01-1	1.27E-08	< 4.68E-09	< 5.65E-09	< 1.45E-08	5.10E-09	< 6.89E-09	< 1.28E-08	< 7.47E-09	3.46E-08	1.33E-09	4.76E-09	1.05E-08	1.97E-09
Cyclohexylamine	108-91-8	< 4.77E-09	< 2.65E-09	< 3.42E-09	1.53E-07	< 5.94E-09	< 3.92E-09	3.87E-07	< 4.28E-09	< 4.09E-09	< 4.20E-09	< 1.97E-09	< 2.75E-09	< 2.09E-09
N-Nitrosodiethylamine	55-18-5	< 1.01E-08	< 7.29E-09	< 8.03E-09	< 2.17E-08	< 1.39E-08	< 9.94E-09	< 1.60E-08	< 1.07E-08	< 8.73E-09	< 8.93E-09	< 3.06E-09	< 4.37E-09	< 3.23E-09
Cyclohexanone	108-94-1	2.24E-08	< 5.07E-09	< 4.38E-09	< 1.55E-08	3.45E-08	< 5.28E-09	9.53E-09	< 5.72E-09	3.06E-08	5.43E-08	< 2.31E-09	< 3.24E-09	5.09E-09
1,3-Cyclooctadiene	1700-10-3	< 5.18E-09	< 3.27E-09	< 4.31E-09	< 1.08E-08	< 7.42E-09	< 5.10E-09	< 7.80E-09	< 5.55E-09	< 4.48E-09	< 4.60E-09	< 1.77E-09	< 2.47E-09	< 1.86E-09
1,5-Cyclooctadiene	111-78-4	< 1.21E-08	< 7.56E-09	< 9.73E-09	< 2.46E-08	< 1.68E-08	< 1.16E-08	< 1.81E-08	< 1.25E-08	< 1.04E-08	< 1.07E-08	< 4.15E-09	< 5.92E-09	< 4.43E-09
Camphene	79-92-5	< 5.89E-09	< 3.59E-09	< 4.68E-09	< 1.14E-08	3.04E-08	< 5.49E-09	< 8.46E-09	< 5.99E-09	< 5.08E-09	< 5.17E-09	< 1.70E-09	< 2.47E-09	< 1.86E-09
Benzaldehyde	100-52-7	2.04E-08	8.84E-08	4.53E-07	< 1.30E-08	< 8.78E-09	1.47E-08	7.60E-10	1.25E-08	1.23E-07	1.66E-08	1.46E-07	4.45E-07	5.09E-08
Benzonitrile	100-47-0	< 2.59E-09	< 1.79E-09	9.29E-09	< 5.80E-09	< 3.48E-09	< 2.40E-09	< 3.85E-09	< 2.62E-09	< 2.24E-09	< 2.26E-09	< 8.17E-10	2.40E-08	< 8.38E-10
Isooctanol	26952-21-6	< 5.49E-08	< 3.96E-08	< 4.23E-08	< 1.28E-07	< 7.30E-08	< 5.21E-08	< 1.03E-07	1.15E-06	2.36E-07	< 4.83E-08	< 2.12E-08	< 3.01E-08	< 2.23E-08
1,2,4-Trimethylbenzene	95-63-6	2.83E-09	< 1.33E-09	< 2.23E-09	2.01E-08	4.05E-08	1.53E-08	7.65E-09	1.11E-08	< 2.46E-09	9.33E-09	4.33E-08	1.12E-07	1.84E-08
3-Methylstyrene	100-80-1	< 3.83E-09	< 2.18E-09	< 3.08E-09	< 7.44E-09	< 5.29E-09	< 3.62E-09	< 5.12E-09	< 3.93E-09	< 3.33E-09	< 3.41E-09	4.89E-08	1.30E-07	3.71E-09
4-Methylstyrene	622-97-9	< 4.00E-09	< 2.42E-09	< 3.20E-09	< 8.09E-09	< 5.49E-09	< 3.92E-09	< 5.78E-09	< 4.28E-09	< 3.49E-09	< 3.54E-09	< 1.36E-09	< 1.90E-09	< 1.44E-09
4-Chlorostyrene	1073-67-2	< 4.30E-09	< 2.53E-09	< 3.42E-09	< 8.20E-09	< 5.94E-09	< 4.05E-09	< 5.83E-09	< 4.37E-09	< 3.71E-09	< 3.80E-09	< 1.57E-09	< 2.18E-09	< 1.68E-09
1-Dodecene	112-41-4	< 7.30E-08	< 1.48E-08	< 1.87E-08	< 5.19E-08	< 3.01E-08	< 2.42E-08	< 3.23E-08	< 2.15E-08	< 2.01E-08	< 2.00E-08	< 7.35E-09	< 1.08E-08	< 7.90E-09
Phthalimide	85-41-6	< 1.72E-08	< 1.11E-08	< 1.13E-08	< 3.06E-08	< 1.92E-08	6.19E-09	5.11E-08	< 1.13E-08	6.44E-08	8.27E-07	< 5.72E-09	< 7.89E-09	< 6.34E-09
Diphenylamine	122-39-4	8.10E-07	1.79E-09	3.01E-09	2.28E-09	2.54E-08	1.35E-09	2.99E-09	< 1.88E-09	1.60E-08	2.30E-09	1.18E-07	4.87E-07	1.72E-08
Total Detected		1.02E-06	1.67E-06	6.01E-07	2.09E-06	6.42E-07	3.89E-07	7.87E-07	1.66E-06	2.23E-06	2.37E-06	1.46E-06	1.93E-06	2.67E-07
Total with non-detects		< 1.85E-06	< 2.12E-06	< 1.05E-06	< 3.81E-06	< 1.38E-06	< 9.06E-07	< 1.84E-06	< 2.13E-06	< 2.67E-06	< 2.85E-06	< 1.69E-06	< 2.25E-06	< 5.20E-07

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TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (µg/m³)													
1 2	1-Butanol						70		60		120			2000
1 2	1-Chloro-4-(1-chloroethenyl) cyclohexene											100	100	
1 2	1-Chloro-5-(1-chloroethenyl) cyclohexene											100	100	
1 2	1-Chloropropane													400
	1-Heptene	3.5592	20.422	< 1.167	< 1.167	4.0843	< 3.5009	2.6256	11.086	11.086	< 5.8348	5.8348	7.8769	11.086
	1-Hexene	< 2.3339	< 1.167	< 1.167	3.6759	< 1.167	< 3.5009	3.5592	1.167	< 1.167	< 5.8348	< 2.3339	< 1.167	14.003
1 2	1-Methoxybutane													
	1-Octene	< 2.3339	< 1.167	< 1.167	< 1.167	< 1.167	< 3.5009	< 1.167	< 1.167	< 1.167	< 5.8348	< 2.3339	< 1.167	< 1.167
	1-Pentene	13.42	5.3096	5.3096	11.086	41.427	18.671	< 1.167	8.1687	27.423	24.506	< 2.3339	21.297	19.838
1 2	1-Propanol													200
1	1,1-Dichloroethene	< 40	< 8	< 8	44	< 20	< 24	< 20	7.5	12	< 40	< 16	< 8	< 16
1	1,1-Dichloroethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	1,1,1-Trichloroethane	< 40	4.9	9.9	3.4	18	< 24	< 20	2	4.6	11	< 16	2.8	4.8
1	1,1,2-Trichloroethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	1,1,2,2-Tetrachloroethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	1,2-Dibromo-3-Chloropropane	< 80	< 16	< 16	< 16	< 40	< 48	< 40	< 16	< 16	< 80	< 32	< 16	< 32
1	1,2-Dibromoethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	1,2-Dichlorobenzene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	1,2-Dichloroethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	1,2-Dichloropropane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
	1,2,4-Trimethylbenzene	13.333	11.666	< 5.5553	< 5.5553	< 5.5553	77.774	8.4996	122.22	9.444	< 27.776	< 11.111	10.833	< 5.5553
	1,3-Butadiene	8.4377	< 1.125	< 1.125	17.438	< 1.125	< 3.3751	19.688	8.4377	10.688	< 5.6251	61.877	8.1565	10.125
1	1,3-Dichlorobenzene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
	1,3,5-Trimethylbenzene	< 11.111	< 5.5553	< 5.5553	< 5.5553	< 5.5553	< 16.666	9.444	< 5.5553	< 5.5553	< 27.776	< 11.111	< 5.5553	13.333
1	1,4-Dichlorobenzene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
	1,4-Diethylbenzene + n-Butylbenzene	< 11.166	< 5.5832	< 5.5832	< 5.5832	< 5.5832	< 16.75	< 5.5832	< 5.5832	< 5.5832	< 27.916	< 11.166	< 5.5832	< 5.5832
1	1,4-Dioxane	< 160	< 32	< 32	< 32	< 80	< 96	< 80	< 32	< 32	< 160	< 64	< 32	< 64
1 2	2-Butanol													
1	2-Butanone	510	97	28	220	150	23	59	38	31	97	14	78	29
1 2	2-Butene							50						
1	2-Hexanone	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
	2-Methyl-1-butene	3.9676	11.086	< 1.167	< 1.167	< 1.167	< 3.5009	< 1.167	< 1.167	< 1.167	< 5.8348	10.503	< 1.167	< 1.167
	2-Methyl-2-butene	14.003	< 1.167	< 1.167	< 1.167	< 1.167	23.339	< 1.167	< 1.167	< 1.167	< 5.8348	23.339	< 1.167	< 1.167
	2-Methyl-2-pentene	< 2.3339	< 1.167	< 1.167	< 1.167	< 1.167	< 3.5009	< 1.167	< 1.167	< 1.167	< 5.8348	< 2.3339	< 1.167	< 1.167
	2-Methylheptane	47.517	23.758	< 1.1879	8.9094	17.819	9.5033	8.9094	11.285	19.007	24.352	19.601	10.097	48.705
	2-Methylhexane	3.7514	55.973	4.7041	10.123	14.886	10.123	6.55	26.2	24.414	37.514	16.077	15.482	45.85

1 = TO14 Compound 2 = Tentatively Identified Compound

TRC

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#17	#13
	Speciated Vol. (µg/m³)													
	2-Methylpentane	47.796	26.288	29.873	51.978	83.643	48.991	31.068	30.47	38.834	62.135	8.9618	18.222	2509.3
	2,2-Dimethylbutane	< 2.3898	< 1.1949	< 1.1949	6.572	9.5592	< 3.5847	< 1.1949	5.9148	4.3017	16.131	< 2.3898	< 1.1949	221.06
	2,2-Dimethylpropane	< 2.401	< 1.2005	< 1.2005	< 1.2005	< 1.2005	< 3.6015	< 1.2005	< 1.2005	< 1.2005	< 6.0025	< 2.401	< 1.2005	< 1.2005
	2,3-Dimethylpentane	< 2.3818	19.65	< 1.1909	2.9773	4.7637	4.3468	2.9177	8.9318	8.9318	16.077	6.55	5.895	20.246
	2,3,4-Trimethylpentane	< 2.3758	16.037	< 1.1879	< 1.1879	< 1.1879	< 3.5638	< 1.1879	5.9396	10.097	< 5.9396	< 2.3758	6.7711	12.473
	2,4-Dimethylhexane	7.1275	27.916	< 1.1879	8.3154	3.8607	< 3.5638	7.1275	11.879	16.037	< 5.9396	13.661	9.2064	18.413
1 2	3-Methyl-2-Butanone	100												
	3-Methylhexane	8.9318	77.409	7.7409	11.314	20.246	13.695	7.7409	33.941	34.536	65.5	25.009	20.841	57.164
	3-Methylpentane	185.21	23.301	13.741	38.834	71.694	26.885	137.41	35.25	77.669	71.694	31.665	28.976	71.694
	4-Methyl-1-pentene	< 2.3339	< 1.167	< 1.167	15.17	< 1.167	19.838	< 1.167	< 1.167	< 1.167	< 5.8348	< 2.3339	< 1.167	< 1.167
1	4-Methyl-2-Pentanone	< 40	12	390	1200	< 20	1600	< 20	9.5	7.8	34	11	< 8	8.9
1 2	4,4-Dimethyl-2-Pentanone	100												
1 2	Acetaldehyde	60												
1 2	Acetaldehyde+Isobutane					60								
1	Acetone	130	810	130	780	270	170	130	130	67	559	619	100	< 32
1	Acetonitrile	< 80	< 16	< 16	< 16	< 40	< 48	< 40	< 16	< 16	< 80	< 32	< 16	< 32
1 2	Acetophenone	200												
	Acetylene	70.402	102.89	14.622	25.994	8.6648	92.064	2.1121	19.496	34.118	125.64	6.4986	37.096	29.785
1	Acrolein	< 80	< 16	< 16	< 16	< 40	< 48	< 40	< 16	< 16	< 80	< 32	< 16	64
1	Acrylonitrile	< 80	< 16	< 16	< 16	< 40	< 48	< 40	5.1	< 16	< 80	< 32	< 16	86
1	Allyl Chloride	< 80	< 16	< 16	< 16	< 40	< 48	< 40	< 16	< 16	< 80	< 32	< 16	< 32
	a-Pinene	< 2.2668	< 1.1334	< 1.1334	6.2338	< 1.1334	< 3.4002	< 1.1334	7.9339	5.6104	35.136	< 2.2668	< 1.1334	13.034
	Benzene	4.7115	2.8161	3.5201	9.2064	46 29.244	< 3.2493	3.845	< 1.0831	3.0868	< 5.4155	< 2.1662	3.4659	59.571
1	Benzyl Chloride	< 80	< 16	< 16	< 16	< 40	< 48	< 40	< 16	< 16	< 80	< 32	< 16	< 32
1 2	bis(1-Methylethyl)Benzene													
1 2	bis(1,1-dimethylethyl)perroxide													
	b-Pinene	< 11.334	11.334	9.634	23.802	11.334	< 17.001	< 5.6671	< 5.6671	< 5.6671	< 28.335	< 11.334	< 5.6671	209.68
1	Bromodichloromethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	Bromoform	24	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	Bromomethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1 2	Butanal											50		2000
1 2	Butane			40	60									
1 2	C10-C11 Branched Alkane													
1 2	C10H18 Polycyclic Hydrocarbon													
1 2	C10H20 Alkyl Substituted Cyclohexane						500							
1 2	C11-C12 Branched Alkane													2400

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (µg/m³)													
1 2	C11H22 Alkene													
1 2	C12H24 Alkene													
1 2	C4 Aldehyde			30										
1 2	C5 Aldehyde			30										
1 2	C6H10 O2 Acid Ester													
1 2	C8H12 Cyclic alkene													
1 2	C8H16 Alkene	200						400						
1 2	C9H10 Alkyl Substituted Benzene		50											
1 2	C9H12 Alkyl Substituted Benzene		60											
1 2	C9H12 Polycyclic Alkene									1400				
1	Carbon Disulfide	< 40	< 8	< 8	16	18	200	< 20	2100	42	8400	1400	4300	75
1	Carbon Tetrachloride	< 40	< 8	3.7	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1 2	Carbonyl sulfide								100					
1	Chlorobenzene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1 2	Chlorobutadiene+Methylpentane												50	
1	Chlorodibromomethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	Chloroethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	Chloroform	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1	Chloromethane	< 40	1.9	< 8	2.4	< 20	17	< 20	2.8	2	7.6	< 16	2.2	5.8
1	cis-1,2-Dichloroethene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	57
1	cis-1,3-Dichloropropene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
	cis-2-Butene	< 2.3339	< 1.167	< 1.167	< 1.167	< 1.167	< 3.5009	< 1.167	< 1.167	< 1.167	< 5.8348	< 2.3339	< 1.167	< 1.167
	cis-2-Hexene	35.009	< 1.167	< 1.167	< 1.167	9.3356	< 3.5009	11.086	< 1.167	4.5511	< 5.8348	< 2.3339	12.545	< 1.167
	cis-2-Pentene	6.4183	12.837	122.53	22.172	14.003	23.923	11.086	2.4506	3.5009	373.43		11.144	47.262
	Cumene	< 2.2221	< 1.1111	< 1.1111	< 1.1111	< 1.1111	< 3.3332	3.4998	7.2218	199.99	72.218	< 2.2221	8.6107	8.8884
1 2	Cyclobutane										200			
	Cyclohexane	39.093	75.852	3.3842	19.838	19.255	9.3356	326.75	11.086	15.754	12.253	5.4847	7.5852	30.924
1 2	Cyclooctadiene								80					
	Cyclopentane + 2,3-Dimethylbutane	11.704	6.3721	3.056	9.1029	16.255	16.905	6.242	7.1523	8.4527	11.704	0.6502	6.7947	16.255
	Cyclopentene	< 2.2668	10.767	19.268	4.307	21.535	< 3.4002	< 1.1334	< 1.1334	< 1.1334	< 5.6671	< 2.2668	< 1.1334	43.636
1 2	Decane			40					50		200	70	40	
1	Dichlorodifluoromethane	< 40	< 8	3.4	< 8	< 20	8	< 20	4.2	3.9	18	< 16	3.7	< 16
	d-Limonene	< 11.334	< 5.6671	< 5.6671	< 5.6671	15.301	< 17.001	< 5.6671	< 5.6671	< 5.6671	< 28.335	< 11.334	< 5.6671	27.202
1	Epichlorohydrin	< 80	< 16	< 16	< 16	< 40	< 48	< 40	< 16	< 16	< 80	< 32	< 16	< 32
	Ethane	137.59	16.886	22.515	41.277	20.638	28.769	10.632	13.133	12.508	26.267	5.6286	12.195	7.5048
1 2	Ethanol	90	50		70	80	600				9000			

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TRC

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Vol. (µg/m³)													
1 2 Ethenylcyclohexene													200
1 2 Ethyl Acetate													
1 2 Ethyl Acrylate													
Ethylacetylene	< 2.2501	< 1.125	< 1.125	< 1.125	< 1.125	< 3.3751	< 1.125	< 1.125	< 1.125	< 5.6251	< 2.2501	< 1.125	< 1.125
Ethylbenzene	< 2.2081	8.8325	6.6244	9.3846	11.593	12.697	182.17	8.2805	4.6371	< 5.5203	11.041	5.4651	18.769
Ethylene	< 2.3339	4.201	7.5852	12.253	12.837	7.0017	< 1.167	11.086	11.67	14.003	< 2.3339	3.8218	< 1.167
1 2 Heptane		300		40				100	100	100	70	80	300
1 2 Heptanone											300		
1 Hexachlorobutadiene	< 80	< 16	< 16	< 16	< 40	< 48	< 40	< 16	< 16	< 80	< 32	< 16	< 32
1 2 Hexachloroethane													
1 2 Isobutanal					90								
Isobutane	30.826	< 1.2089	10.275	15.111	50.773	< 3.6266	6.0444	19.342	10.275	< 6.0444	< 2.4178	< 1.2089	< 1.2089
Isobutylene + 1-Butene	14.587	14.003	19.838	53.68	39.676	10.503	28.007	6.4183	9.3356	64.183	< 2.3339	4.0843	46.678
Isooctane	7.7215	46.923	8.9094	7.7215	10.097	8.3154	8.9094	18.413	24.352	26.134	11.879	23.461	21.383
Isopentane	72.03	< 1.2005	96.04	426.18	216.09	192.08	66.027	168.07	77.432	348.14	456.19	62.426	473.6
Isoprene	< 2.2668	< 1.1334	< 1.1334	< 1.1334	10.767	< 3.4002	< 1.1334	1.6435	1.7568	< 5.6671	< 2.2668	2.1252	4.0803
1 2 Isopropyl Alcohol	90			40	100	60			40				
1 2 Methyl Acrylate													
1 2 Methyl Isothiocyanate								40					
Methylacetylene	< 2.1662	< 1.0831	< 1.0831	< 1.0831	< 1.0831	< 3.2493	< 1.0831	< 1.0831	< 1.0831	< 5.4155	< 2.1662	< 1.0831	< 1.0831
IIC Methylcyclohexane X02 2800	16.337	157.54	16.337	51.346	70 29.757	45.511	26.84	70.017	70.017	71.768	35.592	45.511	110.86
IIC Methylcyclopentane 704700	291.74	31.508	11.086	28.007	200 105.03	22.756	274.23	25.673	204.22	42.594	21.005	14.295	55.43
1 Methylene Chloride X02 500	95	58	1200	150	180 41	130	48	36	44	741	81	62	20
1 2 Methylhexane		300						50	60			40	
1 2 Methylpentane		50	30	120		180		60	160	400	140	50	
m-Ethyltoluene	< 2.2221	< 1.1111	< 1.1111	< 1.1111	< 1.1111	< 3.3332	5.5553	< 1.1111	< 1.1111	< 5.5553	< 2.2221	< 1.1111	10.555
m-Xylene + p-Xylene 46	22.633	35.33	22.081	41.402	45 40.298	32.57	1100 607.24	32.57	30.362	88.436	24.4	34.778	71.764
n-Butane	66.488	13.902	32.035	57.422	139.02	10.275	26.595	7.8577	12.089	16.924		12.391	9.671
n-Decane	34.328	16.572	14.797	41.43	20.123	< 17.756	36.695	23.675	13.021	82.861	< 11.837	14.797	88.779
n-Heptane	13.695	148.86	8.9318	18.459	28.582	18.459	8.9318	65.5	65.5	99.441	40.491	39.002	95.273
n-Hexane 110-54-3 1200	711.21	65.72	49.23	125.7	1000 579.77	77.669	810 454.3	95.592	202.54	135.62	46.004	44.51	184.61
n-Nonane	23.119	10.078	4.5052	< 1.1856	10.67	30.825	25.49	5.7501	6.5207	47.424	21.341	10.67	41.496
n-Octane	13.067	< 1.1879	< 1.1879	7.1275	12.473	5.1674	5.9396	< 1.1879	< 1.1879	14.849	10.097	< 1.1879	32.668
1 2 Nonane													
n-Pentane	46.219	< 1.2005	21.009	40.817	90.037	15.606	20.408	13.205	11.405	28.212	15.006	11.105	22.209

TRC

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TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Vol. (µg/m³)													
1 2 n-Propane	100												
n-Propylbenzene	10.555	< 1.1111	< 1.1111	< 1.1111	< 1.1111	< 3.3332	< 1.1111	< 1.1111	< 1.1111	< 5.5553	< 2.2221	< 1.1111	< 1.1111
1 2 n-Undecane	100				70		50						
o-Ethyltoluene	< 11.111	21.11	< 5.5553	< 5.5553	< 5.5553	< 116.666	< 5.5553	< 5.5553	< 5.5553	77.774	26.11	< 5.5553	< 5.5553
o-Xylene	8.2805	23.737	9.9366	30.362	14.905	49.683	25.7	11.593	10.489	32.018	21.529	16.009	32.018
p-Cymene	15.075	8.9332	< 5.5832	11.725	5.5832	< 16.75	7.8165	18.983	< 5.5832	< 27.916	< 11.166	< 5.5832	30.708
1 2 Pentane			40	70									
1 2 Pentene			30										
p-Ethyltoluene	< 2.2221	< 1.1111	< 1.1111	27.776	< 1.1111	< 3.3332	19.443	< 1.1111	< 1.1111	< 5.5553	< 2.2221	< 1.1111	11.666
1 2 Propanal													300
TIC Propane	110.06	12.84	25.069	30.571	43.411	13.451	9.1714	14.063	10.394	16.264	6.4811	9.4771	189.54
1 2 Propylcyclohexane													
Propylene	< 2.3339	13.42	< 1.167	2.7423	4.3761	< 3.5009	< 1.167	5.193	3.851	< 5.8348	9.9191	< 1.167	81.687
1 Propylene Oxide	< 80	< 16	< 16	< 16	< 40	< 48	< 40	< 16	< 16	< 80	< 32	< 16	< 32
Styrene	< 2.1662	< 1.0831	< 1.0831	3.5742	< 1.0831	222.04	< 1.0831	3.0868	10.289	17.871	8.1233	< 1.0831	4.874
1 t-Butyl Methyl Ether	< 80	< 16	< 16	< 16	< 40	17	< 40	< 16	< 16	< 80	< 32	< 16	< 32
1 2 tert-Butyl Alcohol						60				700			
1 Tetrachloroethene	< 40	250	3	5.3	< 20	5.3	< 20	5.8	7.1	10	3.9	7.5	12
1 Tetrahydrofuran	100						50					50	
Toluene 108-88-3	142.36	125.93	65.705	48.184	169.74	28.472	44.351	98.557	142.36	151.12	63.515	54.48	251.87
1 trans-1,2-Dichloroethene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1 trans-1,2-Dichloropropene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
trans-2-Butene	< 2.3339	< 1.167	11.086	< 1.167	< 1.167	< 3.5009	< 1.167	< 1.167	< 1.167	< 5.8348	< 2.3339	< 1.167	5.7764
trans-2-Hexene	< 2.3339	< 1.167	3.4425	< 1.167	8.1687	< 3.5009	< 1.167	< 1.167	< 1.167	< 5.8348	< 2.3339	< 1.167	< 1.167
trans-2-Pentene	< 2.3339	< 1.167	< 1.167	9.3356	< 1.167	< 3.5009	< 1.167	< 1.167	2.2172	< 5.8348	< 2.3339	< 1.167	< 1.167
1 Trichloroethene	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	20
1 Trichlorofluoromethane	< 40	41	7.8	< 8	< 20	56	28	12	< 8	115	18	< 8	18
1 2 Trichloroheptafluorobutane													
1 Trichlortrifluoroethane	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1 2 Undecane			30										
1 2 Unknown	200						90						
1 Vinyl Acetate	< 40	< 8	< 8	< 8	230	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
1 Vinyl Chloride	< 40	< 8	< 8	< 8	< 20	< 24	< 20	< 8	< 8	< 40	< 16	< 8	< 16
Total Detected	4411.3	3402.8	2750.2	4269.7	3218.3	4923.5	3715.7	4006.8	3496.2	23062.8	4047.0	5737.7	13663.5
Total with non-detects	< 6802.5	< 3873.6	< 3232	< 4734.4	< 4363.5	< 6335.4	< 4903.5	< 4440.7	< 3957.3	< 25426	< 5049.9	< 6221.8	< 14466

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TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (lbs/hr)													
1 2	1-Butanol						6.03E-06		5.17E-06		1.03E-05			1.72E-04
1 2	1-Chloro-4-(1-chloroethenyl) cyclohexene											8.62E-06	8.62E-06	
1 2	1-Chloro-5-(1-chloroethenyl) cyclohexene											8.62E-06	8.62E-06	
1 2	1-Chloropropane													3.45E-05
	1-Heptene	2.93E-07	1.99E-06	< 1.09E-07	< 1.01E-07	3.37E-07	< 3.02E-07	2.26E-07	9.55E-07	9.55E-07	< 5.03E-07	5.03E-07	6.79E-07	9.55E-07
	1-Hexene	< 1.92E-07	< 1.14E-07	< 1.09E-07	3.17E-07	< 9.62E-08	< 3.02E-07	3.07E-07	1.01E-07	< 1.01E-07	< 5.03E-07	< 2.01E-07	< 1.01E-07	1.21E-06
1 2	1-Methoxybutane													
	1-Octene	< 1.92E-07	< 1.14E-07	< 1.09E-07	< 1.01E-07	< 9.62E-08	< 3.02E-07	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 5.03E-07	< 2.01E-07	< 1.01E-07	< 1.01E-07
	1-Pentene	1.11E-06	5.17E-07	4.97E-07	9.55E-07	3.41E-06	1.61E-06	< 1.01E-07	7.04E-07	2.36E-06	2.11E-06	< 2.01E-07	1.83E-06	1.71E-06
1 2	1-Propanol													1.72E-05
1	1,1-Dichloroethene	< 3.30E-06	< 7.79E-07	< 7.49E-07	3.79E-06	< 1.65E-06	< 2.07E-06	< 1.72E-06	6.46E-07	1.03E-06	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	1,1-Dichloroethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	1,1,1-Trichloroethane	< 3.30E-06	4.77E-07	9.27E-07	2.93E-07	1.48E-06	< 2.07E-06	< 1.72E-06	1.72E-07	3.96E-07	9.48E-07	< 1.38E-06	2.41E-07	4.14E-07
1	1,1,2-Trichloroethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	1,1,2,2-Tetrachloroethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	1,2-Dibromo-3-Chloropropane	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	< 2.76E-06
1	1,2-Dibromoethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	1,2-Dichlorobenzene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	1,2-Dichloroethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	1,2-Dichloropropane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
	1,2,4-Trimethylbenzene	1.10E-06	1.14E-06	< 5.20E-07	< 4.79E-07	< 4.58E-07	6.70E-06	7.32E-07	1.05E-05	8.14E-07	< 2.39E-06	< 9.57E-07	9.33E-07	< 4.79E-07
	1,3-Butadiene	6.95E-07	< 1.10E-07	< 1.05E-07	1.50E-06	< 9.27E-08	< 2.91E-07	1.70E-06	7.27E-07	9.21E-07	< 4.85E-07	5.33E-06	7.03E-07	8.72E-07
1	1,3-Dichlorobenzene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
	1,3,5-Trimethylbenzene	< 9.16E-07	< 5.41E-07	< 5.20E-07	< 4.79E-07	< 4.58E-07	< 1.44E-06	8.14E-07	< 4.79E-07	< 4.79E-07	< 2.39E-06	< 9.57E-07	< 4.79E-07	1.15E-06
1	1,4-Dichlorobenzene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
	1,4-Diethylbenzene + n-Butylbenzene	< 9.20E-07	< 5.44E-07	< 5.23E-07	< 4.81E-07	< 4.60E-07	< 1.44E-06	< 4.81E-07	< 4.81E-07	< 4.81E-07	< 2.41E-06	< 9.62E-07	< 4.81E-07	< 4.81E-07
1	1,4-Dioxane	< 1.32E-05	< 3.12E-06	< 3.00E-06	< 2.76E-06	< 6.59E-06	< 8.27E-06	< 6.89E-06	< 2.76E-06	< 2.76E-06	< 1.38E-05	< 5.51E-06	< 2.76E-06	< 5.51E-06
1 2	2-Butanol													
1	2-Butanone	4.20E-05	9.45E-06	2.62E-06	1.90E-05	1.24E-05	1.98E-06	5.08E-06	3.27E-06	2.67E-06	8.36E-06	1.21E-06	6.72E-06	2.50E-06
1 2	2-Butene							4.31E-06						
1	2-Hexanone	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
	2-Methyl-1-butene	3.27E-07	1.08E-06	< 1.09E-07	< 1.01E-07	< 9.62E-08	< 3.02E-07	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 5.03E-07	9.05E-07	< 1.01E-07	< 1.01E-07
	2-Methyl-2-butene	1.15E-06	< 1.14E-07	< 1.09E-07	< 1.01E-07	< 9.62E-08	2.01E-06	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 5.03E-07	2.01E-06	< 1.01E-07	< 1.01E-07
	2-Methyl-2-pentene	< 1.92E-07	< 1.14E-07	< 1.09E-07	< 1.01E-07	< 9.62E-08	< 3.02E-07	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 5.03E-07	< 2.01E-07	< 1.01E-07	< 1.01E-07
	2-Methylheptane	3.92E-06	2.31E-06	< 1.11E-07	7.68E-07	1.47E-06	8.19E-07	7.68E-07	9.72E-07	1.64E-06	2.10E-06	1.69E-06	8.70E-07	4.20E-06
	2-Methylhexane	3.09E-07	5.45E-06	4.41E-07	8.72E-07	1.23E-06	8.72E-07	5.64E-07	2.26E-06	2.10E-06	3.23E-06	1.39E-06	1.33E-06	3.95E-06

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (lbs/hr)													
	2-Methylpentane	3.94E-06	2.56E-06	2.80E-06	4.48E-06	6.89E-06	4.22E-06	2.68E-06	2.63E-06	3.35E-06	5.35E-06	7.72E-07	1.57E-06	2.16E-04
	2,2-Dimethylbutane	< 1.97E-07	< 1.16E-07	< 1.12E-07	5.66E-07	7.88E-07	< 3.09E-07	< 1.03E-07	5.10E-07	3.71E-07	1.39E-06	< 2.06E-07	< 1.03E-07	1.90E-05
	2,2-Dimethylpropane	< 1.98E-07	< 1.17E-07	< 1.12E-07	< 1.03E-07	< 9.89E-08	< 3.10E-07	< 1.03E-07	< 1.03E-07	< 1.03E-07	< 5.17E-07	< 2.07E-07	< 1.03E-07	< 1.03E-07
	2,3-Dimethylpentane	< 1.96E-07	1.91E-06	< 1.12E-07	2.57E-07	3.93E-07	3.75E-07	2.51E-07	7.70E-07	7.70E-07	1.39E-06	5.64E-07	5.08E-07	1.74E-06
	2,3,4-Trimethylpentane	< 1.96E-07	1.56E-06	< 1.11E-07	< 1.02E-07	< 9.79E-08	< 3.07E-07	< 1.02E-07	5.12E-07	8.70E-07	< 5.12E-07	< 2.05E-07	5.83E-07	1.07E-06
	2,4-Dimethylhexane	5.87E-07	2.72E-06	< 1.11E-07	7.16E-07	3.18E-07	< 3.07E-07	6.14E-07	1.02E-06	1.38E-06	< 5.12E-07	1.18E-06	7.93E-07	1.59E-06
1	*2* 3-Methyl-2-Butanone	8.24E-06												
	3-Methylhexane	7.36E-07	7.54E-06	7.25E-07	9.75E-07	1.67E-06	1.18E-06	6.67E-07	2.92E-06	2.98E-06	5.64E-06	2.15E-06	1.80E-06	4.93E-06
	3-Methylpentane	1.53E-05	2.27E-06	1.29E-06	3.35E-06	5.91E-06	2.32E-06	1.18E-05	3.04E-06	6.69E-06	6.18E-06	2.73E-06	2.50E-06	6.18E-06
	4-Methyl-1-pentene	< 1.92E-07	< 1.14E-07	< 1.09E-07	1.31E-06	< 9.62E-08	1.71E-06	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 5.03E-07	< 2.01E-07	< 1.01E-07	< 1.01E-07
1	4-Methyl-2-Pentanone	< 3.30E-06	1.17E-06	3.65E-05	1.03E-04	< 1.65E-06	1.38E-04	< 1.72E-06	8.19E-07	6.72E-07	2.93E-06	9.48E-07	< 6.89E-07	7.67E-07
1	*2* 4,4-Dimethyl-2-Pentanone	8.24E-06												
1	*2* Acetaldehyde	4.94E-06												
1	*2* Acetaldehyde+Isobutane					4.94E-06								
1	Acetone	1.07E-05	7.89E-05	1.22E-05	6.72E-05	2.23E-05	1.46E-05	1.12E-05	1.12E-05	5.77E-06	4.82E-05	5.33E-05	8.62E-06	< 2.76E-06
1	Acetonitrile	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	< 2.76E-06
1	*2* Acetophenone	1.65E-05												
	Acetylene	5.80E-06	1.00E-05	1.37E-06	2.24E-06	7.14E-07	7.93E-06	1.82E-07	1.68E-06	2.94E-06	1.08E-05	5.60E-07	3.20E-06	2.57E-06
1	Acrolein	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	5.51E-06
1	Acrylonitrile	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	4.39E-07	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	7.41E-06
1	Allyl Chloride	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	< 2.76E-06
	a-Pinene	< 1.87E-07	< 1.10E-07	< 1.06E-07	5.37E-07	< 9.34E-08	< 2.93E-07	< 9.77E-08	6.84E-07	4.83E-07	3.03E-06	< 1.95E-07	< 9.77E-08	1.12E-06
	Benzene	3.88E-07	2.74E-07	3.30E-07	7.93E-07	2.41E-06	< 2.80E-07	3.31E-07	< 9.33E-08	2.66E-07	< 4.67E-07	< 1.87E-07	2.99E-07	5.13E-06
1	Benzyl Chloride	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	< 2.76E-06
1	*2* bis(1-Methylethyl)Benzene													
1	*2* bis(1,1-dimethylethyl)perroxide													
	b-Pinene	< 9.34E-07	1.10E-06	9.02E-07	2.05E-06	9.34E-07	< 1.46E-06	< 4.88E-07	< 4.88E-07	< 4.88E-07	< 2.44E-06	< 9.77E-07	< 4.88E-07	1.81E-05
1	Bromodichloromethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	Bromoform	1.98E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	Bromomethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	*2* Butanal											4.31E-06		1.72E-04
1	*2* Butane			3.75E-06	5.17E-06									
1	*2* C10-C11 Branched Alkane													
1	*2* C10H18 Polycyclic Hydrocarbon													
1	*2* C10H20 Alkyl Substituted Cyclohexane						4.31E-05							
1	*2* C11-C12 Branched Alkane													2.07E-04

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Vol. (lbs/hr)													
1 2 C11H22 Alkene													
1 2 C12H24 Alkene													
1 2 C4 Aldehyde			2.81E-06										
1 2 C5 Aldehyde			2.81E-06										
1 2 C6H10 O2 Acid Ester													
1 2 C8H12 Cyclic alkene													
1 2 C8H16 Alkene	1.65E-05						3.45E-05						
1 2 C9H10 Alkyl Substituted Benzene		4.87E-06											
1 2 C9H12 Alkyl Substituted Benzene		5.84E-06											
1 2 C9H12 Polycyclic Alkene									1.21E-04				
1 Carbon Disulfide	< 3.30E-06	< 7.79E-07	< 7.49E-07	1.38E-06	1.48E-06	1.72E-05	< 1.72E-06	1.81E-04	3.62E-06	7.24E-04	1.21E-04	3.70E-04	6.46E-06
1 Carbon Tetrachloride	< 3.30E-06	< 7.79E-07	3.47E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1 2 Carbonyl sulfide								8.62E-06					
1 Chlorobenzene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1 2 Chlorobutadiene+Methylpentane												4.31E-06	
1 Chlorodibromomethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1 Chloroethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1 Chloroform	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1 Chloromethane	< 3.30E-06	1.85E-07	< 7.49E-07	2.07E-07	< 1.65E-06	1.46E-06	< 1.72E-06	2.41E-07	1.72E-07	6.55E-07	< 1.38E-06	1.90E-07	5.00E-07
1 cis-1,2-Dichloroethene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	4.91E-06
1 cis-1,3-Dichloropropene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
cis-2-Butene	< 1.92E-07	< 1.14E-07	< 1.09E-07	< 1.01E-07	< 9.62E-08	< 3.02E-07	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 5.03E-07	< 2.01E-07	< 1.01E-07	< 1.01E-07
cis-2-Hexene	2.89E-06	< 1.14E-07	< 1.09E-07	< 1.01E-07	7.69E-07	< 3.02E-07	9.55E-07	< 1.01E-07	3.92E-07	< 5.03E-07	< 2.01E-07	1.08E-06	< 1.01E-07
cis-2-Pentene	5.29E-07	1.25E-06	1.15E-05	1.91E-06	1.15E-06	2.06E-06	9.55E-07	2.11E-07	3.02E-07	3.22E-05		9.60E-07	4.07E-06
Cumene	< 1.83E-07	< 1.08E-07	< 1.04E-07	< 9.57E-08	< 9.16E-08	< 2.87E-07	3.02E-07	6.22E-07	1.72E-05	6.22E-06	< 1.91E-07	7.42E-07	7.66E-07
1 2 Cyclobutane										1.72E-05			
Cyclohexane	3.22E-06	7.39E-06	3.17E-07	1.71E-06	1.59E-06	8.04E-07	2.82E-05	9.55E-07	1.36E-06	1.06E-06	4.73E-07	6.54E-07	2.66E-06
1 2 Cyclooctadiene								6.89E-06					
Cyclopentane + 2,3-Dimethylbutane	9.65E-07	6.21E-07	2.86E-07	7.84E-07	1.34E-06	1.46E-06	5.38E-07	6.16E-07	7.28E-07	1.01E-06	5.60E-08	5.85E-07	1.40E-06
Cyclopentene	< 1.87E-07	1.05E-06	1.80E-06	3.71E-07	1.77E-06	< 2.93E-07	< 9.77E-08	< 9.77E-08	< 9.77E-08	< 4.88E-07	< 1.95E-07	< 9.77E-08	3.76E-06
1 2 Decane			3.75E-06					4.31E-06		1.72E-05	6.03E-06	3.45E-06	
1 Dichlorodifluoromethane	< 3.30E-06	< 7.79E-07	3.18E-07	< 6.89E-07	< 1.65E-06	6.89E-07	< 1.72E-06	3.62E-07	3.36E-07	1.55E-06	< 1.38E-06	3.19E-07	< 1.38E-06
d-Limonene	< 9.34E-07	< 5.52E-07	< 5.31E-07	< 4.88E-07	1.26E-06	< 1.46E-06	< 4.88E-07	< 4.88E-07	< 4.88E-07	< 2.44E-06	< 9.77E-07	< 4.88E-07	2.34E-06
1 Epichlorohydrin	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	< 2.76E-06
Ethane	1.13E-05	1.64E-06	2.11E-06	3.56E-06	1.70E-06	2.48E-06	9.16E-07	1.13E-06	1.08E-06	2.26E-06	4.85E-07	1.05E-06	6.47E-07
1 2 Ethanol	7.42E-06	4.87E-06		6.03E-06	6.59E-06	5.17E-05				7.75E-04			

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Vol. (lbs/hr)													
1 2 Ethenylcyclohexene													1.72E-05
1 2 Ethyl Acetate													
1 2 Ethyl Acrylate													
Ethylacetylene	< 1.85E-07	< 1.10E-07	< 1.05E-07	< 9.69E-08	< 9.27E-08	< 2.91E-07	< 9.69E-08	< 9.69E-08	< 9.69E-08	< 4.85E-07	< 1.94E-07	< 9.69E-08	< 9.69E-08
Ethylbenzene	< 1.82E-07	8.60E-07	6.20E-07	8.09E-07	9.55E-07	1.09E-06	1.57E-05	7.13E-07	4.00E-07	< 4.76E-07	9.51E-07	4.71E-07	1.62E-06
Ethylene	< 1.92E-07	4.09E-07	7.10E-07	1.06E-06	1.06E-06	6.03E-07	< 1.01E-07	9.55E-07	1.01E-06	1.21E-06	< 2.01E-07	3.29E-07	< 1.01E-07
1 2 Heptane		2.92E-05		3.45E-06				8.62E-06	8.62E-06	8.62E-06	6.03E-06	6.89E-06	2.58E-05
1 2 Heptanone											2.58E-05		
1 Hexachlorobutadiene	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	< 2.76E-06
1 2 Hexachloroethane													
1 2 Isobutanal					7.42E-06								
Isobutane	2.54E-06	< 1.18E-07	9.62E-07	1.30E-06	4.18E-06	< 3.12E-07	5.21E-07	1.67E-06	8.85E-07	< 5.21E-07	< 2.08E-07	< 1.04E-07	< 1.04E-07
Isobutylene + 1-Butene	1.20E-06	1.36E-06	1.86E-06	4.62E-06	3.27E-06	9.05E-07	2.41E-06	5.53E-07	8.04E-07	5.53E-06	< 2.01E-07	3.52E-07	4.02E-06
Isooctane	6.36E-07	4.57E-06	8.34E-07	6.65E-07	8.32E-07	7.16E-07	7.68E-07	1.59E-06	2.10E-06	2.25E-06	1.02E-06	2.02E-06	1.84E-06
Isopentane	5.94E-06	< 1.17E-07	8.99E-06	3.67E-05	1.78E-05	1.65E-05	5.69E-06	1.45E-05	6.67E-06	3.00E-05	3.93E-05	5.38E-06	4.08E-05
Isoprene	< 1.87E-07	< 1.10E-07	< 1.06E-07	< 9.77E-08	8.87E-07	< 2.93E-07	< 9.77E-08	1.42E-07	1.51E-07	< 4.88E-07	< 1.95E-07	1.83E-07	3.52E-07
1 2 Isopropyl Alcohol	7.42E-06			3.45E-06	8.24E-06	5.17E-06			3.45E-06				
1 2 Methyl Acrylate													
1 2 Methyl Isothiocyanate								3.45E-06					
Methylacetylene	< 1.79E-07	< 1.05E-07	< 1.01E-07	< 9.33E-08	< 8.93E-08	< 2.80E-07	< 9.33E-08	< 9.33E-08	< 9.33E-08	< 4.67E-07	< 1.87E-07	< 9.33E-08	< 9.33E-08
Methylcyclohexane	1.35E-06	1.53E-05	1.53E-06	4.42E-06	2.45E-06	3.92E-06	2.31E-06	6.03E-06	6.03E-06	6.18E-06	3.07E-06	3.92E-06	9.55E-06
Methylcyclopentane	2.40E-05	3.07E-06	1.04E-06	2.41E-06	8.66E-06	1.96E-06	2.36E-05	2.21E-06	1.76E-05	3.67E-06	1.81E-06	1.23E-06	4.78E-06
1 Methylene Chloride	7.83E-06	5.65E-06	1.12E-04	1.29E-05	3.38E-06	1.12E-05	4.14E-06	3.10E-06	3.79E-06	6.38E-05	6.98E-06	5.34E-06	1.72E-06
1 2 Methylhexane		2.92E-05						4.31E-06	5.17E-06			3.45E-06	
1 2 Methylpentane		4.87E-06	2.81E-06	1.03E-05		1.55E-05		5.17E-06	1.38E-05	3.45E-05	1.21E-05	4.31E-06	
m-Ethyltoluene	< 1.83E-07	< 1.08E-07	< 1.04E-07	< 9.57E-08	< 9.16E-08	< 2.87E-07	4.79E-07	< 9.57E-08	< 9.57E-08	< 4.79E-07	< 1.91E-07	< 9.57E-08	9.09E-07
m-Xylene + p-Xylene	1.87E-06	3.44E-06	2.07E-06	3.57E-06	3.32E-06	2.81E-06	5.23E-05	2.81E-06	2.62E-06	7.62E-06	2.10E-06	3.00E-06	6.18E-06
n-Butane	5.48E-06	1.35E-06	3.00E-06	4.95E-06	1.15E-05	8.85E-07	2.29E-06	6.77E-07	1.04E-06	1.46E-06		1.07E-06	8.33E-07
n-Decane	2.83E-06	1.61E-06	1.39E-06	3.57E-06	1.66E-06	< 1.53E-06	3.16E-06	2.04E-06	1.12E-06	7.14E-06	< 1.02E-06	1.27E-06	7.65E-06
n-Heptane	1.13E-06	1.45E-05	8.36E-07	1.59E-06	2.36E-06	1.59E-06	7.70E-07	5.64E-06	5.64E-06	8.57E-06	3.49E-06	3.36E-06	8.21E-06
n-Hexane	5.86E-05	6.40E-06	4.61E-06	1.08E-05	4.78E-05	6.69E-06	3.91E-05	8.24E-06	1.75E-05	1.17E-05	3.96E-06	3.83E-06	1.59E-05
n-Nonane	1.91E-06	9.82E-07	4.22E-07	< 1.02E-07	8.79E-07	2.66E-06	2.20E-06	4.95E-07	5.62E-07	4.09E-06	1.84E-06	9.19E-07	3.58E-06
n-Octane	1.08E-06	< 1.16E-07	< 1.11E-07	6.14E-07	1.03E-06	4.45E-07	5.12E-07	< 1.02E-07	< 1.02E-07	1.28E-06	8.70E-07	< 1.02E-07	2.81E-06
1 2 Nonane													
n-Pentane	3.81E-06	< 1.17E-07	1.97E-06	3.52E-06	7.42E-06	1.34E-06	1.76E-06	1.14E-06	9.83E-07	2.43E-06	1.29E-06	9.57E-07	1.91E-06

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (lbs/hr)													
1 2	n-Propane	8.24E-06												
	n-Propylbenzene	8.70E-07	< 1.08E-07	< 1.04E-07	< 9.57E-08	< 9.16E-08	< 2.87E-07	< 9.57E-08	< 9.57E-08	< 9.57E-08	< 4.79E-07	< 1.91E-07	< 9.57E-08	< 9.57E-08
1 2	n-Undecane	8.24E-06				5.77E-06		4.31E-06						
	o-Ethyltoluene	< 9.16E-07	2.06E-06	< 5.20E-07	< 4.79E-07	< 4.58E-07	< 1.44E-06	< 4.79E-07	< 4.79E-07	< 4.79E-07	6.70E-06	2.25E-06	< 4.79E-07	< 4.79E-07
	o-Xylene	6.82E-07	2.31E-06	9.31E-07	2.62E-06	1.23E-06	4.28E-06	2.81E-05	9.99E-07	9.04E-07	2.76E-06	1.85E-06	1.38E-06	2.76E-06
	p-Cymene	1.24E-06	8.70E-07	< 5.23E-07	1.01E-06	4.60E-07	< 1.44E-06	6.73E-07	1.64E-06	< 4.81E-07	< 2.41E-06	< 9.62E-07	< 4.81E-07	2.65E-06
1 2	Pentane			3.75E-06	6.03E-06									
1 2	Pentene			2.81E-06										
	p-Ethyltoluene	< 1.83E-07	< 1.08E-07	< 1.04E-07	2.39E-06	< 9.16E-08	< 2.87E-07	1.68E-06	< 9.57E-08	< 9.57E-08	< 4.79E-07	< 1.91E-07	< 9.57E-08	1.01E-06
1 2	Propanal													2.58E-05
	Propane	9.07E-06	1.25E-06	2.35E-06	2.63E-06	3.58E-06	1.16E-06	7.90E-07	1.21E-06	8.96E-07	1.40E-06	5.58E-07	8.17E-07	1.63E-05
1 2	Propylcyclohexane													
	Propylene	< 1.92E-07	1.31E-06	< 1.09E-07	2.36E-07	3.61E-07	< 3.02E-07	< 1.01E-07	4.47E-07	3.32E-07	< 5.03E-07	8.55E-07	< 1.01E-07	7.04E-06
1	Propylene Oxide	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	< 4.14E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	< 2.76E-06
	Styrene	< 1.79E-07	< 1.05E-07	< 1.01E-07	3.08E-07	< 8.93E-08	1.91E-05	< 9.33E-08	2.66E-07	8.87E-07	1.54E-06	7.00E-07	< 9.33E-08	4.20E-07
1	t-Butyl Methyl Ether	< 6.59E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 3.30E-06	1.46E-06	< 3.45E-06	< 1.38E-06	< 1.38E-06	< 6.89E-06	< 2.76E-06	< 1.38E-06	< 2.76E-06
1 2	tert-Butyl Alcohol						5.17E-06				6.03E-05			
1	Tetrachloroethene	< 3.30E-06	2.43E-05	2.81E-07	4.57E-07	< 1.65E-06	4.57E-07	< 1.72E-06	5.00E-07	6.12E-07	8.62E-07	3.36E-07	6.46E-07	1.03E-06
1 2	Tetrahydrofuran	8.24E-06						4.31E-06					4.31E-06	
	Toluene	1.17E-05	1.23E-05	6.15E-06	4.15E-06	1.40E-05	2.45E-06	3.82E-06	8.49E-06	1.23E-05	1.30E-05	5.47E-06	4.69E-06	2.17E-05
1	trans-1,2-Dichloroethene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	trans-1,2-Dichloropropene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
	trans-2-Butene	< 1.92E-07	< 1.14E-07	1.04E-06	< 1.01E-07	< 9.62E-08	< 3.02E-07	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 5.03E-07	< 2.01E-07	< 1.01E-07	4.98E-07
	trans-2-Hexene	< 1.92E-07	< 1.14E-07	3.22E-07	< 1.01E-07	6.73E-07	< 3.02E-07	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 5.03E-07	< 2.01E-07	< 1.01E-07	< 1.01E-07
	trans-2-Pentene	< 1.92E-07	< 1.14E-07	< 1.09E-07	8.04E-07	< 9.62E-08	< 3.02E-07	< 1.01E-07	< 1.01E-07	1.91E-07	< 5.03E-07	< 2.01E-07	< 1.01E-07	< 1.01E-07
1	Trichloroethene	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	1.72E-06
1	Trichlorofluoromethane	< 3.30E-06	3.99E-06	7.30E-07	< 6.89E-07	< 1.65E-06	4.82E-06	2.41E-06	1.03E-06	< 6.89E-07	9.91E-06	1.55E-06	< 6.89E-07	1.55E-06
1 2	Trichloroheptafluorobutane													
1	Trichlortrifluoroethane	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1 2	Undecane			2.81E-06										
1 2	Unknown	1.65E-05						7.75E-06						
1	Vinyl Acetate	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	1.90E-05	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
1	Vinyl Chloride	< 3.30E-06	< 7.79E-07	< 7.49E-07	< 6.89E-07	< 1.65E-06	< 2.07E-06	< 1.72E-06	< 6.89E-07	< 6.89E-07	< 3.45E-06	< 1.38E-06	< 6.89E-07	< 1.38E-06
	Total Detected	3.64E-04	3.31E-04	2.58E-04	3.68E-04	2.65E-04	4.24E-04	3.20E-04	3.45E-04	3.01E-04	1.99E-03	3.49E-04	4.94E-04	1.18E-03
	Total with non-detects	< 5.61E-04	< 3.77E-04	< 3.03E-04	< 4.08E-04	< 3.60E-04	< 5.46E-04	< 4.22E-04	< 3.83E-04	< 3.41E-04	< 2.19E-03	< 4.35E-04	< 5.36E-04	< 1.25E-03

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (lbs/lb rubber)													
1	2 1-Butanol						1.34E-06		8.01E-07		1.46E-06			2.22E-05
1	2 1-Chloro-4-(1-chloroethenyl) cyclohexene											6.17E-07	1.05E-06	
1	2 1-Chloro-5-(1-chloroethenyl) cyclohexene											6.17E-07	1.05E-06	
1	2 1-Chloropropane													4.44E-06
	1-Heptene	4.13E-08	3.35E-07	< 3.76E-08	< 1.45E-08	4.17E-08	< 6.70E-08	6.23E-08	1.48E-07	1.76E-07	< 7.12E-08	3.60E-08	8.28E-08	1.23E-07
	1-Hexene	< 2.71E-08	< 1.91E-08	< 3.76E-08	4.57E-08	< 1.19E-08	< 6.70E-08	8.45E-08	1.56E-08	< 1.85E-08	< 7.12E-08	< 1.44E-08	< 1.23E-08	1.55E-07
1	2 1-Methoxybutane													
	1-Octene	< 2.71E-08	< 1.91E-08	< 3.76E-08	< 1.45E-08	< 1.19E-08	< 6.70E-08	< 2.77E-08	< 1.56E-08	< 1.85E-08	< 7.12E-08	< 1.44E-08	< 1.23E-08	< 1.29E-08
	1-Pentene	1.56E-07	8.71E-08	1.71E-07	1.38E-07	4.23E-07	3.57E-07	< 2.77E-08	1.09E-07	4.35E-07	2.99E-07	< 1.44E-08	2.24E-07	2.20E-07
1	2 1-Propanol													2.22E-06
1	1,1-Dichloroethene	< 4.64E-07	< 1.31E-07	< 2.57E-07	5.47E-07	< 2.04E-07	< 4.60E-07	< 4.75E-07	1.00E-07	1.90E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	1,1-Dichloroethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	1,1,1-Trichloroethane	< 4.64E-07	8.03E-08	3.19E-07	4.23E-08	1.84E-07	< 4.60E-07	< 4.75E-07	2.67E-08	7.30E-08	1.34E-07	< 9.87E-08	2.94E-08	5.32E-08
1	1,1,2-Trichloroethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	1,1,2,2-Tetrachloroethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	1,2-Dibromo-3-Chloropropane	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	< 3.55E-07
1	1,2-Dibromoethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	1,2-Dichlorobenzene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	1,2-Dichloroethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	1,2-Dichloropropane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
	1,2,4-Trimethylbenzene	1.55E-07	1.91E-07	< 1.79E-07	< 6.91E-08	< 5.67E-08	1.49E-06	2.02E-07	1.63E-06	1.50E-07	< 3.39E-07	< 6.86E-08	1.14E-07	< 6.16E-08
	1,3-Butadiene	9.78E-08	< 1.84E-08	< 3.62E-08	2.17E-07	< 1.15E-08	< 6.46E-08	4.67E-07	1.13E-07	1.70E-07	< 6.86E-08	3.82E-07	8.57E-08	1.12E-07
1	1,3-Dichlorobenzene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
	1,3,5-Trimethylbenzene	< 1.29E-07	< 9.11E-08	< 1.79E-07	< 6.91E-08	< 5.67E-08	< 3.19E-07	2.24E-07	< 7.42E-08	< 8.81E-08	< 3.39E-07	< 6.86E-08	< 5.84E-08	1.48E-07
1	1,4-Dichlorobenzene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
	1,4-Diethylbenzene + n-Butylbenzene	< 1.29E-07	< 9.15E-08	< 1.80E-07	< 6.94E-08	< 5.69E-08	< 3.21E-07	< 1.33E-07	< 7.46E-08	< 8.86E-08	< 3.41E-07	< 6.89E-08	< 5.87E-08	< 6.19E-08
1	1,4-Dioxane	< 1.85E-06	< 5.25E-07	< 1.03E-06	< 3.98E-07	< 8.16E-07	< 1.84E-06	< 1.90E-06	< 4.27E-07	< 5.08E-07	< 1.95E-06	< 3.95E-07	< 3.36E-07	< 7.10E-07
1	2 2-Butanol													
1	2-Butanone	5.91E-06	1.59E-06	9.01E-07	2.74E-06	1.53E-06	4.40E-07	1.40E-06	5.08E-07	4.92E-07	1.18E-06	8.64E-08	8.20E-07	3.22E-07
1	2 2-Butene							1.19E-06						
1	2-Hexanone	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
	2-Methyl-1-butene	4.60E-08	1.82E-07	< 3.76E-08	< 1.45E-08	< 1.19E-08	< 6.70E-08	< 2.77E-08	< 1.56E-08	< 1.85E-08	< 7.12E-08	6.48E-08	< 1.23E-08	< 1.29E-08
	2-Methyl-2-butene	1.62E-07	< 1.91E-08	< 3.76E-08	< 1.45E-08	< 1.19E-08	4.47E-07	< 2.77E-08	< 1.56E-08	< 1.85E-08	< 7.12E-08	1.44E-07	< 1.23E-08	< 1.29E-08
	2-Methyl-2-pentene	< 2.71E-08	< 1.91E-08	< 3.76E-08	< 1.45E-08	< 1.19E-08	< 6.70E-08	< 2.77E-08	< 1.56E-08	< 1.85E-08	< 7.12E-08	< 1.44E-08	< 1.23E-08	< 1.29E-08
	2-Methylheptane	5.51E-07	3.90E-07	< 3.82E-08	1.11E-07	1.82E-07	1.82E-07	2.11E-07	1.51E-07	3.02E-07	2.97E-07	1.21E-07	1.06E-07	5.40E-07
	2-Methylhexane	4.35E-08	9.18E-07	1.51E-07	1.26E-07	1.52E-07	1.94E-07	1.55E-07	3.50E-07	3.87E-07	4.58E-07	9.92E-08	1.63E-07	5.08E-07

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (lbs/lb rubber)													
	2-Methylpentane	5.54E-07	4.31E-07	9.61E-07	6.46E-07	8.53E-07	9.38E-07	7.37E-07	4.07E-07	6.16E-07	7.58E-07	5.53E-08	1.91E-07	2.78E-05
	2,2-Dimethylbutane	< 2.77E-08	< 1.96E-08	< 3.85E-08	8.17E-08	9.75E-08	< 6.86E-08	< 2.84E-08	7.90E-08	6.83E-08	1.97E-07	< 1.47E-08	< 1.26E-08	2.45E-06
	2,2-Dimethylpropane	< 2.78E-08	< 1.97E-08	< 3.86E-08	< 1.49E-08	< 1.22E-08	< 6.90E-08	< 2.85E-08	< 1.60E-08	< 1.90E-08	< 7.33E-08	< 1.48E-08	< 1.26E-08	< 1.33E-08
	2,3-Dimethylpentane	< 2.76E-08	3.22E-07	< 3.83E-08	3.70E-08	4.86E-08	8.32E-08	6.93E-08	1.19E-07	1.42E-07	1.96E-07	4.04E-08	6.19E-08	2.24E-07
	2,3,4-Trimethylpentane	< 2.75E-08	2.63E-07	< 3.82E-08	< 1.48E-08	< 1.21E-08	< 6.82E-08	< 2.82E-08	7.93E-08	1.60E-07	< 7.25E-08	< 1.47E-08	7.11E-08	1.38E-07
	2,4-Dimethylhexane	8.26E-08	4.58E-07	< 3.82E-08	1.03E-07	3.94E-08	< 6.82E-08	1.69E-07	1.59E-07	2.54E-07	< 7.25E-08	8.43E-08	9.67E-08	2.04E-07
1	*2* 3-Methyl-2-Butanone	1.16E-06												
	3-Methylhexane	1.04E-07	1.27E-06	2.49E-07	1.41E-07	2.06E-07	2.62E-07	1.84E-07	4.53E-07	5.48E-07	7.99E-07	1.54E-07	2.19E-07	6.34E-07
	3-Methylpentane	2.15E-06	3.82E-07	4.42E-07	4.83E-07	7.31E-07	5.15E-07	3.26E-06	4.71E-07	1.23E-06	8.75E-07	1.95E-07	3.04E-07	7.95E-07
	4-Methyl-1-pentene	< 2.71E-08	< 1.91E-08	< 3.76E-08	1.89E-07	< 1.19E-08	3.80E-07	< 2.77E-08	< 1.56E-08	< 1.85E-08	< 7.12E-08	< 1.44E-08	< 1.23E-08	< 1.29E-08
1	4-Methyl-2-Pentanone	< 4.64E-07	1.97E-07	1.26E-05	1.49E-05	< 2.04E-07	3.06E-05	< 4.75E-07	1.27E-07	1.24E-07	4.15E-07	6.79E-08	< 8.41E-08	9.87E-08
1	*2* 4,4-Dimethyl-2-Pentanone	1.16E-06												
1	*2* Acetaldehyde	6.95E-07												
1	*2* Acetaldehyde+Isobutane					6.12E-07								
1	Acetone	1.51E-06	1.33E-05	4.18E-06	9.70E-06	2.75E-06	3.25E-06	3.09E-06	1.74E-06	1.06E-06	6.82E-06	3.82E-06	1.05E-06	< 3.55E-07
1	Acetonitrile	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	< 3.55E-07
1	*2* Acetophenone	2.32E-06												
	Acetylene	8.16E-07	1.69E-06	4.71E-07	3.23E-07	8.84E-08	1.76E-06	5.01E-08	2.60E-07	5.41E-07	1.53E-06	4.01E-08	3.90E-07	3.30E-07
1	Acrolein	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	7.10E-07
1	Acrylonitrile	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	6.81E-08	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	9.54E-07
1	Allyl Chloride	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	< 3.55E-07
	a-Pinene	< 2.63E-08	< 1.86E-08	< 3.65E-08	7.75E-08	< 1.16E-08	< 6.51E-08	< 2.69E-08	1.06E-07	8.90E-08	4.29E-07	< 1.40E-08	< 1.19E-08	1.45E-07
	Benzene	5.46E-08	4.62E-08	1.13E-07	1.14E-07	2.98E-07	< 6.22E-08	9.13E-08	< 1.45E-08	4.90E-08	< 6.61E-08	< 1.34E-08	3.64E-08	6.61E-07
1	Benzyl Chloride	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	< 3.55E-07
1	*2* bis(1-Methylethyl)Benzene													
1	*2* bis(1,1-dimethylethyl)peroxide													
	b-Pinene	< 1.31E-07	1.86E-07	3.10E-07	2.96E-07	1.16E-07	< 3.26E-07	< 1.35E-07	< 7.57E-08	< 8.99E-08	< 3.46E-07	< 7.00E-08	< 5.95E-08	2.33E-06
1	Bromodichloromethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	Bromoform	2.78E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	Bromomethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	*2* Butanal											3.09E-07		2.22E-05
1	*2* Butane			1.29E-06	7.46E-07									
1	*2* C10-C11 Branched Alkane													
1	*2* C10H18 Polycyclic Hydrocarbon													
1	*2* C10H20 Alkyl Substituted Cyclohexane						9.57E-06							
1	*2* C11-C12 Branched Alkane													2.66E-05

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (lbs/lb rubber)													
1	2 C11H22 Alkene													
1	2 C12H24 Alkene													
1	2 C4 Aldehyde			9.65E-07										
1	2 C5 Aldehyde			9.65E-07										
1	2 C6H10 O2 Acid Ester													
1	2 C8H12 Cyclic alkene													
1	2 C8H16 Alkene	2.32E-06						9.49E-06						
1	2 C9H10 Alkyl Substituted Benzene		8.20E-07											
1	2 C9H12 Alkyl Substituted Benzene		9.84E-07											
1	2 C9H12 Polycyclic Alkene									2.22E-05				
1	Carbon Disulfide	< 4.64E-07	< 1.31E-07	< 2.57E-07	1.99E-07	1.84E-07	3.83E-06	< 4.75E-07	2.81E-05	6.66E-07	1.03E-04	8.64E-06	4.52E-05	8.32E-07
1	Carbon Tetrachloride	< 4.64E-07	< 1.31E-07	1.19E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	2 Carbonyl sulfide								1.34E-06					
1	Chlorobenzene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	2 Chlorobutadiene+Methylpentane												5.25E-07	
1	Chlorodibromomethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	Chloroethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	Chloroform	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	Chloromethane	< 4.64E-07	3.12E-08	< 2.57E-07	2.98E-08	< 2.04E-07	3.25E-07	< 4.75E-07	3.74E-08	3.17E-08	9.27E-08	< 9.87E-08	2.31E-08	6.43E-08
1	cis-1,2-Dichloroethene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	6.32E-07
1	cis-1,3-Dichloropropene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
	cis-2-Butene	< 2.71E-08	< 1.91E-08	< 3.76E-08	< 1.45E-08	< 1.19E-08	< 6.70E-08	< 2.77E-08	< 1.56E-08	< 1.85E-08	< 7.12E-08	< 1.44E-08	< 1.23E-08	< 1.29E-08
	cis-2-Hexene	4.06E-07	< 1.91E-08	< 3.76E-08	< 1.45E-08	9.52E-08	< 6.70E-08	2.63E-07	< 1.56E-08	7.22E-08	< 7.12E-08	< 1.44E-08	1.32E-07	< 1.29E-08
	cis-2-Pentene	7.44E-08	2.10E-07	3.94E-06	2.76E-07	1.43E-07	4.58E-07	2.63E-07	3.27E-08	5.55E-08	4.56E-06		1.17E-07	5.24E-07
	Cumene	< 2.58E-08	< 1.82E-08	< 3.58E-08	< 1.38E-08	< 1.13E-08	< 6.38E-08	8.31E-08	9.65E-08	3.17E-06	8.81E-07	< 1.37E-08	9.05E-08	9.86E-08
1	2 Cyclobutane										2.44E-06			
	Cyclohexane	4.53E-07	1.24E-06	1.09E-07	2.47E-07	1.96E-07	1.79E-07	7.76E-06	1.48E-07	2.50E-07	1.50E-07	3.39E-08	7.97E-08	3.43E-07
1	2 Cyclooctadiene								1.07E-06					
	Cyclopentane + 2,3-Dimethylbutane	1.36E-07	1.04E-07	9.83E-08	1.13E-07	1.66E-07	3.24E-07	1.48E-07	9.55E-08	1.34E-07	1.43E-07	4.01E-09	7.14E-08	1.80E-07
	Cyclopentene	< 2.63E-08	1.77E-07	6.20E-07	5.35E-08	2.20E-07	< 6.51E-08	< 2.69E-08	< 1.51E-08	< 1.80E-08	< 6.92E-08	< 1.40E-08	< 1.19E-08	4.84E-07
1	2 Decane			1.29E-06					6.68E-07		2.44E-06	4.32E-07	4.20E-07	
1	Dichlorodifluoromethane	< 4.64E-07	< 1.31E-07	1.09E-07	< 9.95E-08	< 2.04E-07	1.53E-07	< 4.75E-07	5.61E-08	6.19E-08	2.20E-07	< 9.87E-08	3.89E-08	< 1.77E-07
	d-Limonene	< 1.31E-07	< 9.29E-08	< 1.82E-07	< 7.05E-08	1.56E-07	< 3.26E-07	< 1.35E-07	< 7.57E-08	< 8.99E-08	< 3.46E-07	< 7.00E-08	< 5.95E-08	3.02E-07
1	Epichlorohydrin	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	< 3.55E-07
	Ethane	1.59E-06	2.77E-07	7.25E-07	5.13E-07	2.11E-07	5.51E-07	2.52E-07	1.75E-07	1.98E-07	3.21E-07	3.47E-08	1.28E-07	8.32E-08
1	2 Ethanol	1.04E-06	8.20E-07		8.70E-07	8.16E-07	1.15E-05				1.10E-04			

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Speciated Vol. (lbs/lb rubber)													
1 2 Ethenylcyclohexene													2.22E-06
1 2 Ethyl Acetate													
1 2 Ethyl Acrylate													
Ethylacetylene	< 2.61E-08	< 1.84E-08	< 3.62E-08	< 1.40E-08	< 1.15E-08	< 6.46E-08	< 2.67E-08	< 1.50E-08	< 1.79E-08	< 6.86E-08	< 1.39E-08	< 1.18E-08	< 1.25E-08
Ethylbenzene	< 2.56E-08	1.45E-07	2.13E-07	1.17E-07	1.18E-07	2.43E-07	4.32E-06	1.11E-07	7.36E-08	< 6.74E-08	6.81E-08	5.74E-08	2.08E-07
Ethylene	< 2.71E-08	6.89E-08	2.44E-07	1.52E-07	1.31E-07	1.34E-07	< 2.77E-08	1.48E-07	1.85E-07	1.71E-07	< 1.44E-08	4.02E-08	< 1.29E-08
1 2 Heptane		4.92E-06		4.97E-07				1.34E-06	1.59E-06	1.22E-06	4.32E-07	8.41E-07	3.33E-06
1 2 Heptanone											1.85E-06		
1 Hexachlorobutadiene	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	< 3.55E-07
1 2 Hexachloroethane													
1 2 Isobutanal					9.18E-07								
Isobutane	3.57E-07	< 1.98E-08	3.31E-07	1.88E-07	5.18E-07	< 6.94E-08	1.43E-07	2.58E-07	1.63E-07	< 7.38E-08	< 1.49E-08	< 1.27E-08	< 1.34E-08
Isobutylene + 1-Butene	1.69E-07	2.30E-07	6.38E-07	6.67E-07	4.05E-07	2.01E-07	6.65E-07	8.57E-08	1.48E-07	7.83E-07	< 1.44E-08	4.29E-08	5.18E-07
Isooctane	8.95E-08	7.69E-07	2.87E-07	9.60E-08	1.03E-07	1.59E-07	2.11E-07	2.46E-07	3.86E-07	3.19E-07	7.33E-08	2.47E-07	2.37E-07
Isopentane	8.35E-07	< 1.97E-08	3.09E-06	5.30E-06	2.20E-06	3.68E-06	1.57E-06	2.25E-06	1.23E-06	4.25E-06	2.82E-06	6.56E-07	5.25E-06
Isoprene	< 2.63E-08	< 1.86E-08	< 3.65E-08	< 1.41E-08	1.10E-07	< 6.51E-08	< 2.69E-08	2.20E-08	2.79E-08	< 6.92E-08	< 1.40E-08	2.23E-08	4.52E-08
1 2 Isopropyl Alcohol	1.04E-06			4.97E-07	1.02E-06	1.15E-06			6.35E-07				
1 2 Methyl Acrylate													
1 2 Methyl Isothiocyanate								5.34E-07					
Methylacetylene	< 2.51E-08	< 1.78E-08	< 3.49E-08	< 1.35E-08	< 1.10E-08	< 6.22E-08	< 2.57E-08	< 1.45E-08	< 1.72E-08	< 6.61E-08	< 1.34E-08	< 1.14E-08	< 1.20E-08
Methylcyclohexane	1.89E-07	2.58E-06	5.26E-07	6.38E-07	3.04E-07	8.71E-07	6.37E-07	9.35E-07	1.11E-06	8.76E-07	2.20E-07	4.78E-07	1.23E-06
Methylcyclopentane	3.38E-06	5.17E-07	3.57E-07	3.48E-07	1.07E-06	4.36E-07	6.51E-06	3.43E-07	3.24E-06	5.20E-07	1.30E-07	1.50E-07	6.15E-07
1 Methylene Chloride	1.10E-06	9.51E-07	3.86E-05	1.86E-06	4.18E-07	2.49E-06	1.14E-06	4.81E-07	6.98E-07	9.04E-06	5.00E-07	6.51E-07	2.22E-07
1 2 Methylhexane		4.92E-06						6.68E-07	9.52E-07			4.20E-07	
1 2 Methylpentane		8.20E-07	9.65E-07	1.49E-06		3.45E-06		8.01E-07	2.54E-06	4.88E-06	8.64E-07	5.25E-07	
m-Ethyltoluene	< 2.58E-08	< 1.82E-08	< 3.58E-08	< 1.38E-08	< 1.13E-08	< 6.38E-08	1.32E-07	< 1.48E-08	< 1.76E-08	< 6.78E-08	< 1.37E-08	< 1.17E-08	1.17E-07
m-Xylene + p-Xylene	2.62E-07	5.79E-07	7.11E-07	5.15E-07	4.11E-07	6.24E-07	1.44E-05	4.35E-07	4.82E-07	1.08E-06	1.51E-07	3.65E-07	7.96E-07
n-Butane	7.71E-07	2.28E-07	1.03E-06	7.14E-07	1.42E-06	1.97E-07	6.31E-07	1.05E-07	1.92E-07	2.07E-07		1.30E-07	1.07E-07
n-Decane	3.98E-07	2.72E-07	4.76E-07	5.15E-07	2.05E-07	< 3.40E-07	8.71E-07	3.16E-07	2.07E-07	1.01E-06	< 7.31E-08	1.55E-07	9.84E-07
n-Heptane	1.59E-07	2.44E-06	2.87E-07	2.29E-07	2.92E-07	3.53E-07	2.12E-07	8.75E-07	1.04E-06	1.21E-06	2.50E-07	4.10E-07	1.06E-06
n-Hexane	8.24E-06	1.08E-06	1.58E-06	1.56E-06	5.91E-06	1.49E-06	1.08E-05	1.28E-06	3.21E-06	1.66E-06	2.84E-07	4.68E-07	2.05E-06
n-Nonane	2.68E-07	1.65E-07	1.45E-07	< 1.47E-08	1.09E-07	5.90E-07	6.05E-07	7.68E-08	1.03E-07	5.79E-07	1.32E-07	1.12E-07	4.60E-07
n-Octane	1.51E-07	< 1.95E-08	< 3.82E-08	8.86E-08	1.27E-07	9.89E-08	1.41E-07	< 1.59E-08	< 1.88E-08	1.81E-07	6.23E-08	< 1.25E-08	3.62E-07
1 2 Nonane													
n-Pentane	5.36E-07	< 1.97E-08	6.76E-07	5.07E-07	9.18E-07	2.99E-07	4.84E-07	1.76E-07	1.81E-07	3.44E-07	9.26E-08	1.17E-07	2.46E-07

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
	Speciated Vol. (lbs/lb rubber)													
1 2	n-Propene	1.16E-06												
	n-Propylbenzene	1.22E-07	< 1.82E-08	< 3.58E-08	< 1.38E-08	< 1.13E-08	< 6.38E-08	< 2.64E-08	< 1.48E-08	< 1.76E-08	< 6.78E-08	< 1.37E-08	< 1.17E-08	< 1.23E-08
1 2	n-Undecane	1.16E-06				7.14E-07		1.19E-06						
	o-Ethyltoluene	< 1.29E-07	3.46E-07	< 1.79E-07	< 6.91E-08	< 5.67E-08	< 3.19E-07	< 1.32E-07	< 7.42E-08	< 8.81E-08	9.49E-07	1.61E-07	< 5.84E-08	< 6.16E-08
	o-Xylene	9.60E-08	3.89E-07	3.20E-07	3.77E-07	1.52E-07	9.51E-07	7.73E-06	1.55E-07	1.66E-07	3.91E-07	1.33E-07	1.68E-07	3.55E-07
	p-Cymene	1.75E-07	1.46E-07	< 1.80E-07	1.46E-07	5.69E-08	< 3.21E-07	1.86E-07	2.54E-07	< 8.86E-08	< 3.41E-07	< 6.89E-08	< 5.87E-08	3.41E-07
1 2	Pentane			1.29E-06	8.70E-07									
1 2	Pentene			9.65E-07										
	p-Ethyltoluene	< 2.58E-08	< 1.82E-08	< 3.58E-08	3.45E-07	< 1.13E-08	< 6.38E-08	4.61E-07	< 1.48E-08	< 1.76E-08	< 6.78E-08	< 1.37E-08	< 1.17E-08	1.29E-07
1 2	Propanal													3.33E-06
	Propane	1.28E-06	2.11E-07	8.07E-07	3.80E-07	4.43E-07	2.58E-07	2.18E-07	1.88E-07	1.65E-07	1.98E-07	4.00E-08	9.96E-08	2.10E-06
1 2	Propylcyclohexane													
	Propylene	< 2.71E-08	2.20E-07	< 3.76E-08	3.41E-08	4.46E-08	< 6.70E-08	< 2.77E-08	6.94E-08	6.11E-08	< 7.12E-08	6.12E-08	< 1.23E-08	9.06E-07
1	Propylene Oxide	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	< 9.19E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	< 3.55E-07
	Styrene	< 2.51E-08	< 1.78E-08	< 3.49E-08	4.44E-08	< 1.10E-08	4.25E-06	< 2.57E-08	4.12E-08	1.63E-07	2.18E-07	5.01E-08	< 1.14E-08	5.40E-08
1	t-Butyl Methyl Ether	< 9.27E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 4.08E-07	3.25E-07	< 9.49E-07	< 2.14E-07	< 2.54E-07	< 9.76E-07	< 1.97E-07	< 1.68E-07	< 3.55E-07
1 2	tert-Butyl Alcohol						1.15E-06				8.54E-06			
1	Tetrachloroethene	< 4.64E-07	4.10E-06	9.65E-08	6.59E-08	< 2.04E-07	1.01E-07	< 4.75E-07	7.75E-08	1.13E-07	1.22E-07	2.41E-08	7.88E-08	1.33E-07
1 2	Tetrahydrofuran	1.16E-06						1.19E-06					5.25E-07	
	Toluene	1.65E-06	2.06E-06	2.11E-06	5.99E-07	1.73E-06	5.45E-07	1.05E-06	1.32E-06	2.26E-06	1.84E-06	3.92E-07	5.72E-07	2.79E-06
1	trans-1,2-Dichloroethene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	trans-1,2-Dichloropropene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
	trans-2-Butene	< 2.71E-08	< 1.91E-08	3.57E-07	< 1.45E-08	< 1.19E-08	< 6.70E-08	< 2.77E-08	< 1.56E-08	< 1.85E-08	< 7.12E-08	< 1.44E-08	< 1.23E-08	6.41E-08
	trans-2-Hexene	< 2.71E-08	< 1.91E-08	1.11E-07	< 1.45E-08	8.33E-08	< 6.70E-08	< 2.77E-08	< 1.56E-08	< 1.85E-08	< 7.12E-08	< 1.44E-08	< 1.23E-08	< 1.29E-08
	trans-2-Pentene	< 2.71E-08	< 1.91E-08	< 3.76E-08	1.16E-07	< 1.19E-08	< 6.70E-08	< 2.77E-08	< 1.56E-08	3.52E-08	< 7.12E-08	< 1.44E-08	< 1.23E-08	< 1.29E-08
1	Trichloroethene	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	2.22E-07
1	Trichlorofluoromethane	< 4.64E-07	6.72E-07	2.51E-07	< 9.95E-08	< 2.04E-07	1.07E-06	6.65E-07	1.60E-07	< 1.27E-07	1.40E-06	1.11E-07	< 8.41E-08	2.00E-07
1 2	Trichloroheptafluorobutane													
1	Trichlortrifluoroethane	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1 2	Undecane			9.65E-07										
1 2	Unknown	2.32E-06						2.14E-06						
1	Vinyl Acetate	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	2.35E-06	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
1	Vinyl Chloride	< 4.64E-07	< 1.31E-07	< 2.57E-07	< 9.95E-08	< 2.04E-07	< 4.60E-07	< 4.75E-07	< 1.07E-07	< 1.27E-07	< 4.88E-07	< 9.87E-08	< 8.41E-08	< 1.77E-07
	Total Detected	5.11E-05	5.58E-05	8.85E-05	5.31E-05	3.28E-05	9.43E-05	8.82E-05	5.35E-05	5.55E-05	2.81E-04	2.50E-05	6.03E-05	1.52E-04
	Total with non-detects	< 7.88E-05	< 6.35E-05	< 1.04E-04	< 5.89E-05	< 4.45E-05	< 1.21E-04	< 1.16E-04	< 5.93E-05	< 6.28E-05	< 3.10E-04	< 3.12E-05	< 6.54E-05	< 1.60E-04

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Vol. (µg/m³)													
1 2 1-Butanol	700							2000					
1 2 1-Chloro-4-(1-chloroethenyl) cyclohexene													
1 2 1-Chloro-5-(1-chloroethenyl) cyclohexene													
1 2 1-Chloropropane													
1-Heptene	14.587	< 1.167	< 2.3339	< 11.67	6.4183	4.7845	< 1.167	< 2.3339	31.508	< 2.9174	< 1.167	< 1.167	< 1.167
1-Hexene	< 1.167	< 1.167	22.172	37.926	< 2.3339	< 1.167	< 1.167	< 2.3339	3.5009	< 2.9174	< 1.167	< 1.167	< 1.167
1 2 1-Methoxybutane	200												
1-Octene	< 1.167	12.837	< 2.3339	285.9	< 2.3339	< 1.167	< 1.167	< 2.3339	< 1.167	< 2.9174	< 1.167	< 1.167	< 1.167
1-Pentene	14.587	3.851	35.592	116.7	1633.7	< 1.167	7.5852	29.174	11.67	< 2.9174	< 1.167	< 1.167	< 1.167
1 2 1-Propanol													
1 1,1-Dichloroethene	17	1.9	< 16	< 16	7.7	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1 1,1-Dichloroethane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1 1,1,1-Trichloroethane	2.8	2.5	3.35	5.1	< 16	14.392	53.5	1.7	4.8	< 80	67	5.4	14
1 1,1,2-Trichloroethane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1 1,1,2,2-Tetrachloroethane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1 1,2-Dibromo-3-Chloropropane	< 16	< 16	< 32	< 32	< 32	< 16	< 16	< 32	< 16	< 160	< 16	< 16	< 16
1 1,2-Dibromoethane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1 1,2-Dichlorobenzene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1 1,2-Dichloroethane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1 1,2-Dichloropropane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1,2,4-Trimethylbenzene	< 5.5553	< 5.5553	333.32	< 55.553	23.888	13.333	< 5.5553	40.553	39.442	< 13.888	< 5.5553	< 5.5553	< 5.5553
1,3-Butadiene	18.563	8.4377	< 2.2501	< 11.25	15.75	7.3127	< 1.125	< 2.2501	9.5627	24.751	6.7502	22.501	< 1.125
1 1,3-Dichlorobenzene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1,3,5-Trimethylbenzene	21.11	< 5.5553	< 11.111	161.1	39.998	< 5.5553	5.9164	13.333	23.332	< 13.888	< 5.5553	< 5.5553	< 5.5553
1 1,4-Dichlorobenzene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1,4-Diethylbenzene + n-Butylbenzene	< 5.5832	< 5.5832	< 11.166	< 55.832	< 11.166	13.958	5.2482	< 11.166	< 5.5832	< 13.958	< 5.5832	35.174	< 5.5832
1 1,4-Dioxane	< 32	< 32	< 64	< 64	< 64	< 32	< 32	< 64	< 32	< 320	< 32	< 32	< 32
1 2 2-Butanol				200									
1 2-Butanone	24	12	7.55	88	110	7.95	9.5	77	320	< 160	16	32	4.8
1 2 2-Butene													
1 2-Hexanone	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
2-Methyl-1-butene	169.21	3.1508	15.17	< 11.67	< 2.3339	< 1.167	4.1427	< 2.3339	< 1.167	< 2.9174	< 1.167	< 1.167	< 1.167
2-Methyl-2-butene	< 1.167	< 1.167	< 2.3339	< 11.67	< 2.3339	< 1.167	< 1.167	< 2.3339	8.1687	18.088	32.675	46.678	41.427
2-Methyl-2-pentene	< 1.167	< 1.167	5.6597	< 11.67	< 2.3339	< 1.167	< 1.167	12.837	< 1.167	< 2.9174	< 1.167	< 1.167	< 1.167
2-Methylheptane	39.201	2.9698	4.8705	< 11.879	< 2.3758	4.7517	3.2371	< 2.3758	30.292	< 2.9698	< 1.1879	< 1.1879	< 1.1879
2-Methylhexane	29.773	17.864	77.409	< 11.909	7.1455	5.7759	< 1.1909	29.177	77.409	< 2.9773	6.55	7.1455	< 1.1909

1 = TO14 Compound 2 = Tentatively Identified Compound

TRC

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
	Speciated Vol. (µg/m³)													
	2-Methylpentane	9.5592	13.144	< 2.3898	41.224	14.936	6.572	< 1.1949	310.68	32.86	44.212	18.521	17.326	16.729
	2,2-Dimethylbutane	< 1.1949	< 1.1949	< 2.3898	< 11.949	< 2.3898	< 1.1949	< 1.1949	16.729	3.286	< 2.9873	< 1.1949	9.5592	4.4212
	2,2-Dimethylpropane	< 1.2005	< 1.2005	< 2.401	< 12.005	< 2.401	< 1.2005	< 1.2005	< 2.401	< 1.2005	< 3.0012	< 1.2005	< 1.2005	< 1.2005
	2,3-Dimethylpentane	10.718	< 1.1909	< 2.3818	< 11.909	2.8582	2.5009	< 1.1909	17.268	27.986	< 2.9773	< 1.1909	< 1.1909	< 1.1909
	2,3,4-Trimethylpentane	< 1.1879	< 1.1879	< 2.3758	< 11.879	< 2.3758	< 1.1879	< 1.1879	< 2.3758	21.383	< 2.9698	< 1.1879	< 1.1879	< 1.1879
	2,4-Dimethylhexane	8.9094	< 1.1879	< 2.3758	< 11.879	< 2.3758	< 1.1879	< 1.1879	< 2.3758	42.765	< 2.9698	< 1.1879	< 1.1879	< 1.1879
1 2	3-Methyl-2-Butanone													
	3-Methylhexane	44.659	5.6568	5.895	< 11.909	10.718	8.9318	4.853	23.223	107.18	113.14	5.4187	5.5973	4.7637
	3-Methylpentane	16.729	17.326	17.924	40.029	13.741	5.9745	7.4682	16.729	26.885	34.652	16.729	23.898	20.911
	4-Methyl-1-pentene	< 1.167	< 1.167	< 2.3339	< 11.67	< 2.3339	< 1.167	< 1.167	< 2.3339	8.1687	< 2.9174	< 1.167	< 1.167	< 1.167
1	4-Methyl-2-Pentanone	64	6.7	16.5	14	400	< 8	14	4.5	1000	< 80	5.8	9.6	4.8
1 2	4,4-Dimethyl-2-Pentanone													
1 2	Acetaldehyde		70											
1 2	Acetaldehyde+Isobutane													
1	Acetone	470	71	54.5	88	450	610.33	65	2600	870	< 160	< 16	98	< 16
1	Acetonitrile	< 16	< 16	< 32	< 32	< 32	58.5	< 16	< 32	< 16	< 160	< 16	< 16	< 16
1 2	Acetophenone													
	Acetylene	27.078	29.785	23.287	< 10.831	17.871	15.705	27.89	39.533	28.702	< 2.7078	< 1.0831	< 1.0831	< 1.0831
1	Acrolein	64	< 16	< 32	< 32	< 32	< 16	< 16	37	22	< 160	31	120	120
1	Acrylonitrile	910	< 16	< 32	< 32	70	< 16	< 16	< 32	< 16	< 160	< 16	< 16	< 16
1	Allyl Chloride	< 16	< 16	< 32	< 32	< 32	< 16	< 16	< 32	< 16	< 160	< 16	< 16	< 16
	a-Pinene	< 1.1334	< 1.1334	< 2.2668	< 11.334	10.767	< 1.1334	< 1.1334	9.634	30.602	< 2.8335	4.647	53.837	< 1.1334
	Benzene	40.616	2.3828	4.9823	< 10.831	3.3035	17.871	4.3324	< 2.1662	6.4986	< 2.7078	2.8702	7.5817	< 1.0831
1	Benzyl Chloride	< 16	< 16	< 32	< 32	< 32	< 16	< 16	< 32	< 16	< 160	< 16	< 16	< 16
1 2	bis(1-Methylethyl)Benzene											90	200	
1 2	bis(1,1-dimethylethyl)perroxide						175							
	b-Pinene	1246.8	9.0673	< 11.334	< 56.671	< 11.334	906.73	< 5.6671	11.901	119.01	< 14.168	< 5.6671	< 5.6671	< 5.6671
1	Bromodichloromethane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1	Bromoform	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1	Bromomethane	< 8	< 8	< 16	< 16	< 16	7.1	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1 2	Butanal	700							400					
1 2	Butane											60		20
1 2	C10-C11 Branched Alkane				400	120								50
1 2	C10H18 Polycyclic Hydrocarbon											1600	4900	
1 2	C10H20 Alkyl Substituted Cyclohexane	600												
1 2	C11-C12 Branched Alkane		40		2600	60			90			80	400	

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TRC

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
	Speciated Vol. (µg/m³)													
1	*2* C11H22 Alkene									200				
1	*2* C12H24 Alkene									300			200	
1	*2* C4 Aldehyde													
1	*2* C5 Aldehyde													
1	*2* C6H10 O2 Acid Ester				1000									
1	*2* C8H12 Cyclic alkene											90	300	
1	*2* C8H16 Alkene													
1	*2* C9H10 Alkyl Substituted Benzene					80								
1	*2* C9H12 Alkyl Substituted Benzene					80								
1	*2* C9H12 Polycyclic Alkene													
1	Carbon Disulfide	330	21	8.6	< 16	3100	< 8	19	7.1	7	88	23	33	7.7
1	Carbon Tetrachloride	< 8	6400	< 16	< 16	< 16	< 8	< 8	< 16	< 8	41	< 8	< 8	< 8
1	*2* Carbonyl sulfide		40											
1	Chlorobenzene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1	*2* Chlorobutadiene+Methylpentane													
1	Chlorodibromomethane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1	Chloroethane	< 8	< 8	325	17	< 16	< 8	31	< 16	< 8	< 80	< 8	< 8	< 8
1	Chloroform	1.9	89	2.35	< 16	< 16	< 8	< 8	2.8	< 8	< 80	< 8	< 8	< 8
1	Chloromethane	2.8	14	2.75	75	< 16	18.725	24.5	64	2.8	< 80	5	7.1	2.4
1	cis-1,2-Dichloroethene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1	cis-1,3-Dichloropropene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
	cis-2-Butene	< 1.167	< 1.167	< 2.3339	< 11.67	< 2.3339	< 1.167	< 1.167	< 2.3339	< 1.167	< 2.9174	< 1.167	< 1.167	< 1.167
	cis-2-Hexene	< 1.167	< 1.167	< 2.3339	64.183	< 2.3339	10.503	< 1.167	14.003	12.253	< 2.9174	< 1.167	< 1.167	< 1.167
	cis-2-Pentene	22.172	15.754	11.67	210.05	19.255	11.086	10.794	7001.7	11.67	18.088	< 1.167	< 1.167	< 1.167
	Cumene	< 1.1111	< 1.1111	< 2.2221	< 11.111	10.555	133.33	< 1.1111	4.5553	4.1109	< 2.7776	9.444	28.332	< 1.1111
1	*2* Cyclobutane					90			300	100				
	Cyclohexane	21.589	4.3177	3.3842	< 11.67	2.9757	2.1005	< 1.167	43.177	32.675	9.9191	8.7522	12.253	116.7
1	*2* Cyclooctadiene	2000												
	Cyclopentane + 2,3-Dimethylbutane	3.7712	2.9259	16.255	< 13.004	3.2511	25.358	8.1276	975.32	7.1523	11.054	5.3317	4.5515	4.6165
	Cyclopentene	< 1.1334	< 1.1334	< 2.2668	< 11.334	< 2.2668	< 1.1334	< 1.1334	< 2.2668	< 1.1334	< 2.8335	< 1.1334	< 1.1334	< 1.1334
1	*2* Decane		50			300	13.333		200					30
1	Dichlorodifluoromethane	< 8	3.4	< 16	< 16	< 16	< 8	3.55	< 16	3.1	< 80	< 8	3.7	
	d-Limonene	< 5.6671	< 5.6671	< 11.334	< 56.671	7.9339	< 5.6671	< 5.6671	< 11.334	48.737	< 14.168	< 5.6671	11.334	< 5.6671
1	Epichlorohydrin	< 16	< 16	< 32	< 32	< 32	< 16	< 16	< 32	< 16	< 160	< 16	< 16	< 16
	Ethane	13.759	15.635	11.257	162.6	22.515	14.384	12.195	20.013	18.762	< 3.127	16.886	26.267	44.404
1	*2* Ethanol			3000	2000			100		100				

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TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Vol. (µg/m³)													
1 2 Ethenylcyclohexene	1000												
1 2 Ethyl Acetate			1000										
1 2 Ethyl Acrylate				400									
Ethylacetylene	< 1.125	< 1.125	19.688	< 11.25	< 2.2501	< 1.125	< 1.125	< 2.2501	< 1.125	< 2.8126	< 1.125	< 1.125	< 1.125
Ethylbenzene	4.7475	6.6244	< 2.2081	< 11.041	24.289	4.085	5.7963	< 2.2081	9.3846	< 2.7602	4.085	8.8325	< 1.1041
Ethylene	10.503	4.6678	< 2.3339	1633.7	9.9191	3.9093	16.046	< 2.3339	4.4344	< 2.9174	< 1.167	< 1.167	< 1.167
1 2 Heptane	100					13.333			400				
1 2 Heptanone		50						50					20
1 Hexachlorobutadiene	< 16	< 16	< 32	< 32	< 32	< 16	< 16	< 32	< 16	< 160	< 16	< 16	< 16
1 2 Hexachloroethane		90											
1 2 Isobutanal													
Isobutane	< 1.2089	2.4178	< 2.4178	< 12.089	< 2.4178	< 1.2089	< 1.2089	< 2.4178	8.4622	15.111	5.3795	7.8577	13.298
Isobutylene + 1-Butene	18.671	24.506	16.921	< 11.67	43.177	5.4263	20.13	280.07	87.522	< 2.9174	< 1.167	8.7522	3.5009
Isooctane	20.195	6.5335	< 2.3758	< 11.879	6.5335	5.7614	5.0487	34.45	58.208	< 2.9698	8.3154	9.5033	5.6426
Isopentane	228.09	54.022	< 2.401	450.19	209.49	25.811	38.416	1854.2	< 1.2005	138.06	38.416	60.025	57.024
Isoprene	3.6836	< 1.1334	3.5703	< 11.334	< 2.2668	< 1.1334	< 1.1334	< 2.2668	< 1.1334	< 2.8335	< 1.1334	< 1.1334	< 1.1334
1 2 Isopropyl Alcohol				200	3000		35	50					
1 2 Methyl Acrylate				3000									
1 2 Methyl Isothiocyanate													
Methylacetylene	< 1.0831	< 1.0831	< 2.1662	< 10.831	< 2.1662	< 1.0831	< 1.0831	< 2.1662	< 1.0831	< 2.7078	< 1.0831	< 1.0831	< 1.0831
Methylcyclohexane	64.183	11.67	9.9191	< 11.67	30.924	28.007	9.3356	22.172	227.56	28.59	9.3356	10.503	7.5852
Methylcyclopentane	9.9191	16.921	8.7522	39.093	9.3356	5.7181	6.71	8.7522	18.088	26.84	12.837	11.086	39.093
1 Methylene Chloride	130	96	95.5	1400	76	47.167	75	46	74	190	120	220	447
1 2 Methylhexane	60								400				
1 2 Methylpentane		60							60		70		120
m-Ethyltoluene	9.9995	< 1.1111	11.666	< 11.111	11.111	< 1.1111	3.3054	8.8884	< 1.1111	< 2.7776	< 1.1111	< 1.1111	< 1.1111
m-Xylene + p-Xylene	25.946	41.955	20.425	40.298	77.285	12.697	24.565	23.185	30.914	20.425	10.489	19.321	< 1.1041
n-Butane	31.431	9.671	13.902	350.58	8.4622	6.0444	9.0666	12.693	27.804	78.577	30.222	30.826	35.058
n-Decane	20.123	9.4698	< 11.837	65.105	100.62	< 5.9186	8.8779	88.779	94.698	22.491	< 5.9186	< 5.9186	< 5.9186
n-Heptane	50.614	8.3364	6.55	< 11.909	17.268	17.268	7.1455	23.223	202.46	16.077	7.7409	8.9318	5.8355
n-Hexane	52.576	107.78	346.52	9553.5	35.25	29.873	35.548	41.224	56.758	107.78	32.561	25.989	38.536
n-Nonane	14.227	< 1.1856	< 2.3712	< 11.856	42.681	11.263	< 1.1856	46.831	4.2088	< 2.964	< 1.1856	5.9279	< 1.1856
n-Octane	5.702	5.5238	< 2.3758	< 11.879	< 2.3758	< 1.1879	< 1.1879	< 2.3758	7.1275	< 2.9698	< 1.1879	< 1.1879	< 1.1879
1 2 Nonane								100					
n-Pentane	< 1.2005	6.0025	< 2.401	51.021	14.406	3.7215	< 1.2005	6.6027	20.408	60.025	7.8032	9.0037	13.205

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
	Speciated Vol. (µg/m³)													
1 2	n-Propane													
	n-Propylbenzene	< 1.1111	< 1.1111	9.444	< 11.111	< 2.2221	< 1.1111	< 1.1111	< 2.2221	< 1.1111	< 2.7776	7.2218	46.664	5.3331
1 2	n-Undecane													
	o-Ethyltoluene	< 5.5553	< 5.5553	< 11.111	< 55.553	< 11.111	< 5.5553	< 5.5553	< 11.111	11.111	< 13.888	< 5.5553	< 5.5553	< 5.5553
	o-Xylene	13.249	11.041	10.489	43.059	32.018	6.0724	9.1085	25.946	26.498	< 2.7602	< 1.1041	< 1.1041	< 1.1041
	p-Cymene	10.05	< 5.5832	< 11.166	78.165	20.1	< 5.5832	< 5.5832	23.45	83.748	< 13.958	8.3748	42.991	< 5.5832
1 2	Pentane													50
1 2	Pentene													
	p-Ethyltoluene	< 1.1111	< 1.1111	< 2.2221	< 11.111	< 2.2221	< 1.1111	< 1.1111	16.11	13.888	< 2.7776	34.443	188.88	< 1.1111
1 2	Propanal													
	Propane	434.11	6.0531	8.56	103.94	9.1714	7.3371	16.509	17.12	15.286	< 3.0571	28.737	14.674	20.789
1 2	Propylcyclohexane					70								
	Propylene	8.1687	< 1.167	< 2.3339	< 11.67	3.851	< 1.167	< 1.167	< 2.3339	< 1.167	< 2.9174	< 1.167	< 1.167	< 1.167
1	Propylene Oxide	540	< 16	< 32	< 32	< 32	< 16	< 16	< 32	< 16	< 160	< 16	< 16	< 16
	Styrene	5.0364	< 1.0831	< 2.1662	< 10.831	4.7657	< 1.0831	< 1.0831	10.289	108.31	< 2.7078	384.5	595.71	< 1.0831
1	t-Butyl Methyl Ether	< 16	< 16	< 32	< 32	< 32	< 16	< 16	1300	< 16	< 160	< 16	< 16	< 16
1 2	tert-Butyl Alcohol								3000					
1	Tetrachloroethene	11	95	< 16	< 16	6.7	3.55	5.55	< 16	140	< 80	< 8	< 8	< 8
1 2	Tetrahydrofuran						18.333							
	Toluene	120.46	43.256	33.4	87.607	60.23	54.754	34.769	22.449	180.69	3997	18.616	15.331	8.7607
1	trans-1,2-Dichloroethene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1	trans-1,2-Dichloropropene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
	trans-2-Butene	< 1.167	70.017	< 2.3339	< 11.67	< 2.3339	< 1.167	13.712	< 2.3339	< 1.167	128.37	< 1.167	< 1.167	< 1.167
	trans-2-Hexene	< 1.167	< 1.167	< 2.3339	< 11.67	< 2.3339	< 1.167	< 1.167	< 2.3339	< 1.167	< 2.9174	< 1.167	< 1.167	< 1.167
	trans-2-Pentene	6.4183	< 1.167	< 2.3339	< 11.67	4.201	< 1.167	< 1.167	< 2.3339	< 1.167	< 2.9174	< 1.167	< 1.167	< 1.167
1	Trichloroethene	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1	Trichlorofluoromethane	7.1	23	61.5	< 16	31	20.917	36.5	12	49	< 80	11	< 8	
1 2	Trichloroheptafluorobutane		60											
1	Trichlortrifluoroethane	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	7.8	< 8	< 8
1 2	Undecane					100			70					
1 2	Unknown													
1	Vinyl Acetate	< 8	< 8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
1	Vinyl Chloride	< 8	1.8	< 16	< 16	< 16	< 8	< 8	< 16	< 8	< 80	< 8	< 8	< 8
	Total Detected	10876.1	7908.9	5686.3	25103.1	10794.1	2447.3	838.0	21608.1	6175.8	5232.3	3060.3	7961.6	1398.3
	Total with non-detects	< 11275	< 8348.3	< 6653.4	< 26722	< 11697	< 2914.8	< 1304.3	< 22470	< 6591.8	< 10246	< 3551.7	< 8430.3	< 1903.1

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Vol. (lbs/hr)													
1 2 1-Butanol	6.29E-05							1.72E-04					
1 2 1-Chloro-4-(1-chloroethenyl) cyclohexene													
1 2 1-Chloro-5-(1-chloroethenyl) cyclohexene													
1 2 1-Chloropropane													
1-Heptene	1.31E-06	< 9.62E-08	< 2.27E-07	< 1.01E-06	5.53E-07	4.30E-07	< 1.09E-07	< 2.01E-07	2.95E-06	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
1-Hexene	< 1.05E-07	< 9.62E-08	2.16E-06	3.27E-06	< 2.01E-07	< 1.05E-07	< 1.09E-07	< 2.01E-07	3.28E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
1 2 1-Methoxybutane	1.80E-05												
1-Octene	< 1.05E-07	1.06E-06	< 2.27E-07	2.46E-05	< 2.01E-07	< 1.05E-07	< 1.09E-07	< 2.01E-07	< 1.09E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
1-Pentene	1.31E-06	3.17E-07	3.47E-06	1.01E-05	1.41E-04	< 1.05E-07	7.10E-07	2.51E-06	1.09E-06	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
1 2 1-Propanol													
1 1,1-Dichloroethene	1.53E-06	1.57E-07	< 1.56E-06	< 1.38E-06	6.63E-07	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 1,1-Dichloroethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 1,1,1-Trichloroethane	2.52E-07	2.06E-07	3.26E-07	4.39E-07	< 1.38E-06	1.29E-06	5.01E-06	1.46E-07	4.50E-07	< 7.19E-06	6.27E-06	5.06E-07	1.42E-06
1 1,1,2-Trichloroethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 1,1,2,2-Tetrachloroethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 1,2-Dibromo-3-Chloropropane	< 1.44E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	< 1.44E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
1 1,2-Dibromoethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 1,2-Dichlorobenzene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 1,2-Dichloroethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 1,2-Dichloropropane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1,2,4-Trimethylbenzene	< 4.99E-07	< 4.58E-07	3.25E-05	< 4.79E-06	2.06E-06	1.20E-06	< 5.20E-07	3.49E-06	3.69E-06	< 1.25E-06	< 5.20E-07	< 5.20E-07	< 5.62E-07
1,3-Butadiene	1.67E-06	6.95E-07	< 2.19E-07	< 9.69E-07	1.36E-06	6.57E-07	< 1.05E-07	< 1.94E-07	8.96E-07	2.23E-06	6.32E-07	2.11E-06	< 1.14E-07
1 1,3-Dichlorobenzene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1,3,5-Trimethylbenzene	1.90E-06	< 4.58E-07	< 1.08E-06	1.39E-05	3.45E-06	< 4.99E-07	5.54E-07	1.15E-06	2.19E-06	< 1.25E-06	< 5.20E-07	< 5.20E-07	< 5.62E-07
1 1,4-Dichlorobenzene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1,4-Diethylbenzene + n-Butylbenzene	< 5.02E-07	< 4.60E-07	< 1.09E-06	< 4.81E-06	< 9.62E-07	1.25E-06	4.92E-07	< 9.62E-07	< 5.23E-07	< 1.25E-06	< 5.23E-07	3.29E-06	< 5.65E-07
1 1,4-Dioxane	< 2.88E-06	< 2.64E-06	< 6.23E-06	< 5.51E-06	< 5.51E-06	< 2.88E-06	< 3.00E-06	< 5.51E-06	< 3.00E-06	< 2.88E-05	< 3.00E-06	< 3.00E-06	< 3.24E-06
1 2 2-Butanol				1.72E-05									
1 2-Butanone	2.16E-06	9.89E-07	7.35E-07	7.58E-06	9.48E-06	7.15E-07	8.90E-07	6.63E-06	3.00E-05	< 1.44E-05	1.50E-06	3.00E-06	4.85E-07
1 2 2-Butene													
1 2-Hexanone	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
2-Methyl-1-butene	1.52E-05	2.60E-07	1.48E-06	< 1.01E-06	< 2.01E-07	< 1.05E-07	3.88E-07	< 2.01E-07	< 1.09E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
2-Methyl-2-butene	< 1.05E-07	< 9.62E-08	< 2.27E-07	< 1.01E-06	< 2.01E-07	< 1.05E-07	< 1.09E-07	< 2.01E-07	7.65E-07	1.63E-06	3.06E-06	4.37E-06	4.19E-06
2-Methyl-2-pentene	< 1.05E-07	< 9.62E-08	5.51E-07	< 1.01E-06	< 2.01E-07	< 1.05E-07	< 1.09E-07	1.11E-06	< 1.09E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
2-Methylheptane	3.52E-06	2.45E-07	4.74E-07	< 1.02E-06	< 2.05E-07	4.27E-07	3.03E-07	< 2.05E-07	2.84E-06	< 2.67E-07	< 1.11E-07	< 1.11E-07	< 1.20E-07
2-Methylhexane	2.68E-06	1.47E-06	7.54E-06	< 1.03E-06	6.16E-07	5.19E-07	< 1.12E-07	2.51E-06	7.25E-06	< 2.68E-07	6.13E-07	6.69E-07	< 1.20E-07

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		COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
	Speciated Vol. (lbs/hr)													
	2-Methylpentane	8.59E-07	1.08E-06	< 2.33E-07	3.55E-06	1.29E-06	5.91E-07	< 1.12E-07	2.68E-05	3.08E-06	3.97E-06	1.73E-06	1.62E-06	1.69E-06
	2,2-Dimethylbutane	< 1.07E-07	< 9.85E-08	< 2.33E-07	< 1.03E-06	< 2.06E-07	< 1.07E-07	< 1.12E-07	1.44E-06	3.08E-07	< 2.69E-07	< 1.12E-07	8.95E-07	4.47E-07
	2,2-Dimethylpropane	< 1.08E-07	< 9.89E-08	< 2.34E-07	< 1.03E-06	< 2.07E-07	< 1.08E-07	< 1.12E-07	< 2.07E-07	< 1.12E-07	< 2.70E-07	< 1.12E-07	< 1.12E-07	< 1.21E-07
	2,3-Dimethylpentane	9.64E-07	< 9.81E-08	< 2.32E-07	< 1.03E-06	2.46E-07	2.25E-07	< 1.12E-07	1.49E-06	2.62E-06	< 2.68E-07	< 1.12E-07	< 1.12E-07	< 1.20E-07
	2,3,4-Trimethylpentane	< 1.07E-07	< 9.79E-08	< 2.31E-07	< 1.02E-06	< 2.05E-07	< 1.07E-07	< 1.11E-07	< 2.05E-07	2.00E-06	< 2.67E-07	< 1.11E-07	< 1.11E-07	< 1.20E-07
	2,4-Dimethylhexane	8.01E-07	< 9.79E-08	< 2.31E-07	< 1.02E-06	< 2.05E-07	< 1.07E-07	< 1.11E-07	< 2.05E-07	4.00E-06	< 2.67E-07	< 1.11E-07	< 1.11E-07	< 1.20E-07
1	*2* 3-Methyl-2-Butanone													
	3-Methylhexane	4.02E-06	4.66E-07	5.74E-07	< 1.03E-06	9.23E-07	8.03E-07	4.54E-07	2.00E-06	1.00E-05	1.02E-05	5.07E-07	5.24E-07	4.82E-07
	3-Methylpentane	1.50E-06	1.43E-06	1.75E-06	3.45E-06	1.18E-06	5.37E-07	6.99E-07	1.44E-06	2.52E-06	3.12E-06	1.57E-06	2.24E-06	2.11E-06
	4-Methyl-1-pentene	< 1.05E-07	< 9.62E-08	< 2.27E-07	< 1.01E-06	< 2.01E-07	< 1.05E-07	< 1.09E-07	< 2.01E-07	7.65E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
1	4-Methyl-2-Pentanone	5.75E-06	5.52E-07	1.61E-06	1.21E-06	3.45E-05	< 7.19E-07	1.31E-06	3.88E-07	9.37E-05	< 7.19E-06	5.43E-07	8.99E-07	4.85E-07
1	*2* 4,4-Dimethyl-2-Pentanone													
1	*2* Acetaldehyde		5.77E-06											
1	*2* Acetaldehyde+Isobutane													
1	Acetone	4.23E-05	5.85E-06	5.31E-06	7.58E-06	3.88E-05	5.49E-05	6.09E-06	2.24E-04	8.15E-05	< 1.44E-05	< 1.50E-06	9.18E-06	< 1.62E-06
1	Acetonitrile	< 1.44E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	5.26E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
1	*2* Acetophenone													
	Acetylene	2.43E-06	2.45E-06	2.27E-06	< 9.33E-07	1.54E-06	1.41E-06	2.61E-06	3.41E-06	2.69E-06	< 2.43E-07	< 1.01E-07	< 1.01E-07	< 1.10E-07
1	Acrolein	5.75E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	< 1.44E-06	< 1.50E-06	3.19E-06	2.06E-06	< 1.44E-05	2.90E-06	1.12E-05	1.21E-05
1	Acrylonitrile	8.18E-05	< 1.32E-06	< 3.12E-06	< 2.76E-06	6.03E-06	< 1.44E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
1	Allyl Chloride	< 1.44E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	< 1.44E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
	a-Pinene	< 1.02E-07	< 9.34E-08	< 2.21E-07	< 9.77E-07	9.28E-07	< 1.02E-07	< 1.06E-07	8.30E-07	2.87E-06	< 2.55E-07	4.35E-07	5.04E-06	< 1.15E-07
	Benzene	3.65E-06	1.96E-07	4.85E-07	< 9.33E-07	2.85E-07	1.61E-06	4.06E-07	< 1.87E-07	6.09E-07	< 2.43E-07	2.69E-07	7.10E-07	< 1.10E-07
1	Benzyl Chloride	< 1.44E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	< 1.44E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
1	*2* bis(1-Methylethyl)Benzene											8.43E-06	1.87E-05	
1	*2* bis(1,1-dimethylethyl)perroxide						1.57E-05							
	b-Pinene	1.12E-04	7.47E-07	< 1.10E-06	< 4.88E-06	< 9.77E-07	8.15E-05	< 5.31E-07	1.03E-06	1.11E-05	< 1.27E-06	< 5.31E-07	< 5.31E-07	< 5.73E-07
1	Bromodichloromethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1	Bromoform	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1	Bromomethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	6.38E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1	*2* Butanal	6.29E-05							3.45E-05					
1	*2* Butane											5.62E-06		2.02E-06
1	*2* C10-C11 Branched Alkane				3.45E-05	1.03E-05								5.06E-06
1	*2* C10H18 Polycyclic Hydrocarbon											1.50E-04	4.59E-04	
1	*2* C10H20 Alkyl Substituted Cyclohexane	5.39E-05												
1	*2* C11-C12 Branched Alkane		3.30E-06		2.24E-04	5.17E-06			7.75E-06			7.49E-06	3.75E-05	

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Vol. (lbs/hr)													
1 2 C11H22 Alkene									1.87E-05				
1 2 C12H24 Alkene									2.81E-05			1.87E-05	
1 2 C4 Aldehyde													
1 2 C5 Aldehyde													
1 2 C6H10 O2 Acid Ester				8.62E-05									
1 2 C8H12 Cyclic alkene											8.43E-06	2.81E-05	
1 2 C8H16 Alkene													
1 2 C9H10 Alkyl Substituted Benzene					6.89E-06								
1 2 C9H12 Alkyl Substituted Benzene					6.89E-06								
1 2 C9H12 Polycyclic Alkene													
1 Carbon Disulfide	2.97E-05	1.73E-06	8.38E-07	< 1.38E-06	2.67E-04	< 7.19E-07	1.78E-06	6.12E-07	6.56E-07	7.91E-06	2.15E-06	3.09E-06	7.79E-07
1 Carbon Tetrachloride	< 7.19E-07	5.27E-04	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	3.69E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 2 Carbonyl sulfide		3.30E-06											
1 Chlorobenzene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 2 Chlorobutadiene+Methylpentane													
1 Chlorodibromomethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 Chloroethane	< 7.19E-07	< 6.59E-07	3.17E-05	1.46E-06	< 1.38E-06	< 7.19E-07	2.90E-06	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 Chloroform	1.71E-07	7.33E-06	2.29E-07	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	2.41E-07	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 Chloromethane	2.52E-07	1.15E-06	2.68E-07	6.46E-06	< 1.38E-06	1.68E-06	2.29E-06	5.51E-06	2.62E-07	< 7.19E-06	4.68E-07	6.65E-07	2.43E-07
1 cis-1,2-Dichloroethene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 cis-1,3-Dichloropropene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
cis-2-Butene	< 1.05E-07	< 9.62E-08	< 2.27E-07	< 1.01E-06	< 2.01E-07	< 1.05E-07	< 1.09E-07	< 2.01E-07	< 1.09E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
cis-2-Hexene	< 1.05E-07	< 9.62E-08	< 2.27E-07	5.53E-06	< 2.01E-07	9.44E-07	< 1.09E-07	1.21E-06	1.15E-06	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
cis-2-Pentene	1.99E-06	1.30E-06	1.14E-06	1.81E-05	1.66E-06	9.97E-07	1.01E-06	6.03E-04	1.09E-06	1.63E-06	< 1.09E-07	< 1.09E-07	< 1.18E-07
Cumene	< 9.99E-08	< 9.16E-08	< 2.16E-07	< 9.57E-07	9.09E-07	1.20E-05	< 1.04E-07	3.92E-07	3.85E-07	< 2.50E-07	8.84E-07	2.65E-06	< 1.12E-07
1 2 Cyclobutane					7.75E-06			2.58E-05	9.37E-06				
Cyclohexane	1.94E-06	3.56E-07	3.30E-07	< 1.01E-06	2.56E-07	1.89E-07	< 1.09E-07	3.72E-06	3.06E-06	8.92E-07	8.20E-07	1.15E-06	1.18E-05
1 2 Cyclooctadiene	1.80E-04												
Cyclopentane + 2,3-Dimethylbutane	3.39E-07	2.41E-07	1.58E-06	< 1.12E-06	2.80E-07	2.28E-06	7.61E-07	8.40E-05	6.70E-07	9.94E-07	4.99E-07	4.26E-07	4.67E-07
Cyclopentene	< 1.02E-07	< 9.34E-08	< 2.21E-07	< 9.77E-07	< 1.95E-07	< 1.02E-07	< 1.06E-07	< 1.95E-07	< 1.06E-07	< 2.55E-07	< 1.06E-07	< 1.06E-07	< 1.15E-07
1 2 Decane		4.12E-06			2.58E-05	1.20E-06		1.72E-05					3.03E-06
1 Dichlorodifluoromethane	< 7.19E-07	2.80E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	3.32E-07	< 1.38E-06	2.90E-07	< 7.19E-06	< 7.49E-07	3.47E-07	
d-Limonene	< 5.09E-07	< 4.67E-07	< 1.10E-06	< 4.88E-06	6.84E-07	< 5.09E-07	< 5.31E-07	< 9.77E-07	4.56E-06	< 1.27E-06	< 5.31E-07	1.06E-06	< 5.73E-07
1 Epichlorohydrin	< 1.44E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	< 1.44E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
Ethane	1.24E-06	1.29E-06	1.10E-06	1.40E-05	1.94E-06	1.29E-06	1.14E-06	1.72E-06	1.76E-06	< 2.81E-07	1.58E-06	2.46E-06	4.49E-06
1 2 Ethanol			2.92E-04	1.72E-04			9.37E-06		9.37E-06				

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TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Vol. (lbs/hr)													
1 2 Ethenylcyclohexene	8.99E-05												
1 2 Ethyl Acetate			9.74E-05										
1 2 Ethyl Acrylate				3.45E-05									
Ethylacetylene	< 1.01E-07	< 9.27E-08	1.92E-06	< 9.69E-07	< 1.94E-07	< 1.01E-07	< 1.05E-07	< 1.94E-07	< 1.05E-07	< 2.53E-07	< 1.05E-07	< 1.05E-07	< 1.14E-07
Ethylbenzene	4.27E-07	5.46E-07	< 2.15E-07	< 9.51E-07	2.09E-06	3.67E-07	5.43E-07	< 1.90E-07	8.79E-07	< 2.48E-07	3.83E-07	8.27E-07	< 1.12E-07
Ethylene	9.44E-07	3.85E-07	< 2.27E-07	1.41E-04	8.55E-07	3.51E-07	1.50E-06	< 2.01E-07	4.15E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
1 2 Heptane	8.99E-06					1.20E-06			3.75E-05				
1 2 Heptanone		4.12E-06						4.31E-06					2.02E-06
1 Hexachlorobutadiene	< 1.44E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	< 1.44E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
1 2 Hexachloroethane		7.42E-06											
1 2 Isobutanal													
Isobutane	< 1.09E-07	1.99E-07	< 2.35E-07	< 1.04E-06	< 2.08E-07	< 1.09E-07	< 1.13E-07	< 2.08E-07	7.92E-07	1.36E-06	5.04E-07	7.36E-07	1.34E-06
Isobutylene + 1-Butene	1.68E-06	2.02E-06	1.65E-06	< 1.01E-06	3.72E-06	4.88E-07	1.89E-06	2.41E-05	8.20E-06	< 2.62E-07	< 1.09E-07	8.20E-07	3.54E-07
Isooctane	1.82E-06	5.38E-07	< 2.31E-07	< 1.02E-06	5.63E-07	5.18E-07	4.73E-07	2.97E-06	5.45E-06	< 2.67E-07	7.79E-07	8.90E-07	5.71E-07
Isopentane	2.05E-05	4.45E-06	< 2.34E-07	3.88E-05	1.80E-05	2.32E-06	3.60E-06	1.60E-04	< 1.12E-07	1.24E-05	3.60E-06	5.62E-06	5.77E-06
Isoprene	3.31E-07	< 9.34E-08	3.48E-07	< 9.77E-07	< 1.95E-07	< 1.02E-07	< 1.06E-07	< 1.95E-07	< 1.06E-07	< 2.55E-07	< 1.06E-07	< 1.06E-07	< 1.15E-07
1 2 Isopropyl Alcohol				1.72E-05	2.58E-04		3.28E-06	4.31E-06					
1 2 Methyl Acrylate				2.58E-04									
1 2 Methyl Isothiocyanate													
Methylacetylene	< 9.74E-08	< 8.93E-08	< 2.11E-07	< 9.33E-07	< 1.87E-07	< 9.74E-08	< 1.01E-07	< 1.87E-07	< 1.01E-07	< 2.43E-07	< 1.01E-07	< 1.01E-07	< 1.10E-07
Methylcyclohexane	5.77E-06	9.62E-07	9.66E-07	< 1.01E-06	2.66E-06	2.52E-06	8.74E-07	1.91E-06	2.13E-05	2.57E-06	8.74E-07	9.84E-07	7.67E-07
Methylcyclopentane	8.92E-07	1.39E-06	8.52E-07	3.37E-06	8.04E-07	5.14E-07	6.28E-07	7.54E-07	1.69E-06	2.41E-06	1.20E-06	1.04E-06	3.95E-06
1 Methylene Chloride	1.17E-05	7.91E-06	9.30E-06	1.21E-04	6.55E-06	4.24E-06	7.02E-06	3.96E-06	6.93E-06	1.71E-05	1.12E-05	2.06E-05	4.52E-05
1 2 Methylhexane	5.39E-06								3.75E-05				
1 2 Methylpentane		4.94E-06							5.62E-06		6.56E-06		1.21E-05
m-Ethyltoluene	8.99E-07	< 9.16E-08	1.14E-06	< 9.57E-07	9.57E-07	< 9.99E-08	3.10E-07	7.66E-07	< 1.04E-07	< 2.50E-07	< 1.04E-07	< 1.04E-07	< 1.12E-07
m-Xylene + p-Xylene	2.33E-06	3.46E-06	1.99E-06	3.47E-06	6.66E-06	1.14E-06	2.30E-06	2.00E-06	2.90E-06	1.84E-06	9.82E-07	1.81E-06	< 1.12E-07
n-Butane	2.83E-06	7.97E-07	1.35E-06	3.02E-05	7.29E-07	5.43E-07	8.49E-07	1.09E-06	2.60E-06	7.06E-06	2.83E-06	2.89E-06	3.55E-06
n-Decane	1.81E-06	7.80E-07	< 1.15E-06	5.61E-06	8.67E-06	< 5.32E-07	8.31E-07	7.65E-06	8.87E-06	2.02E-06	< 5.54E-07	< 5.54E-07	< 5.99E-07
n-Heptane	4.55E-06	6.87E-07	6.38E-07	< 1.03E-06	1.49E-06	1.55E-06	6.69E-07	2.00E-06	1.90E-05	1.45E-06	7.25E-07	8.36E-07	5.90E-07
n-Hexane	4.73E-06	8.88E-06	3.38E-05	8.23E-04	3.04E-06	2.69E-06	3.33E-06	3.55E-06	5.32E-06	9.69E-06	3.05E-06	2.43E-06	3.90E-06
n-Nonane	1.28E-06	< 9.77E-08	< 2.31E-07	< 1.02E-06	3.68E-06	1.01E-06	< 1.11E-07	4.03E-06	3.94E-07	< 2.66E-07	< 1.11E-07	5.55E-07	< 1.20E-07
n-Octane	5.13E-07	4.55E-07	< 2.31E-07	< 1.02E-06	< 2.05E-07	< 1.07E-07	< 1.11E-07	< 2.05E-07	6.67E-07	< 2.67E-07	< 1.11E-07	< 1.11E-07	< 1.20E-07
1 2 Nonane								8.62E-06					
n-Pentane	< 1.08E-07	4.95E-07	< 2.34E-07	4.40E-06	1.24E-06	3.35E-07	< 1.12E-07	5.69E-07	1.91E-06	5.40E-06	7.31E-07	8.43E-07	1.34E-06

TRC

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Vol. (lbs/hr)													
1 2 n-Propane													
n-Propylbenzene	< 9.99E-08	< 9.16E-08	9.20E-07	< 9.57E-07	< 1.91E-07	< 9.99E-08	< 1.04E-07	< 1.91E-07	< 1.04E-07	< 2.50E-07	6.76E-07	4.37E-06	5.39E-07
1 2 n-Undecane													
o-Ethyltoluene	< 4.99E-07	< 4.58E-07	< 1.08E-06	< 4.79E-06	< 9.57E-07	< 4.99E-07	< 5.20E-07	< 9.57E-07	1.04E-06	< 1.25E-06	< 5.20E-07	< 5.20E-07	< 5.62E-07
o-Xylene	1.19E-06	9.10E-07	1.02E-06	3.71E-06	2.76E-06	5.46E-07	8.53E-07	2.24E-06	2.48E-06	< 2.48E-07	< 1.03E-07	< 1.03E-07	< 1.12E-07
p-Cymene	9.04E-07	< 4.60E-07	< 1.09E-06	6.73E-06	1.73E-06	< 5.02E-07	< 5.23E-07	2.02E-06	7.84E-06	< 1.25E-06	7.84E-07	4.03E-06	< 5.65E-07
1 2 Pentane													5.06E-06
1 2 Pentene													
p-Ethyltoluene	< 9.99E-08	< 9.16E-08	< 2.16E-07	< 9.57E-07	< 1.91E-07	< 9.99E-08	< 1.04E-07	1.39E-06	1.30E-06	< 2.50E-07	3.23E-06	1.77E-05	< 1.12E-07
1 2 Propanal													
Propane	3.90E-05	4.99E-07	8.34E-07	8.96E-06	7.90E-07	6.60E-07	1.55E-06	1.48E-06	1.43E-06	< 2.75E-07	2.69E-06	1.37E-06	2.10E-06
1 2 Propylcyclohexane					6.03E-06								
Propylene	7.34E-07	< 9.62E-08	< 2.27E-07	< 1.01E-06	3.32E-07	< 1.05E-07	< 1.09E-07	< 2.01E-07	< 1.09E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
1 Propylene Oxide	4.85E-05	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	< 1.44E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
Styrene	4.53E-07	< 8.93E-08	< 2.11E-07	< 9.33E-07	4.11E-07	< 9.74E-08	< 1.01E-07	8.87E-07	1.01E-05	< 2.43E-07	3.60E-05	5.58E-05	< 1.10E-07
1 t-Butyl Methyl Ether	< 1.44E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-06	< 1.44E-06	< 1.50E-06	1.12E-04	< 1.50E-06	< 1.44E-05	< 1.50E-06	< 1.50E-06	< 1.62E-06
1 2 tert-Butyl Alcohol								2.58E-04					
1 Tetrachloroethene	9.89E-07	7.83E-06	< 1.56E-06	< 1.38E-06	5.77E-07	3.19E-07	5.20E-07	< 1.38E-06	1.31E-05	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 2 Tetrahydrofuran						1.65E-06							
Toluene	1.08E-05	3.56E-06	3.25E-06	7.55E-06	5.19E-06	4.92E-06	3.26E-06	1.93E-06	1.69E-05	3.59E-04	1.74E-06	1.44E-06	8.86E-07
1 trans-1,2-Dichloroethene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 trans-1,2-Dichloropropene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
trans-2-Butene	< 1.05E-07	5.77E-06	< 2.27E-07	< 1.01E-06	< 2.01E-07	< 1.05E-07	1.28E-06	< 2.01E-07	< 1.09E-07	1.15E-05	< 1.09E-07	< 1.09E-07	< 1.18E-07
trans-2-Hexene	< 1.05E-07	< 9.62E-08	< 2.27E-07	< 1.01E-06	< 2.01E-07	< 1.05E-07	< 1.09E-07	< 2.01E-07	< 1.09E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
trans-2-Pentene	5.77E-07	< 9.62E-08	< 2.27E-07	< 1.01E-06	3.62E-07	< 1.05E-07	< 1.09E-07	< 2.01E-07	< 1.09E-07	< 2.62E-07	< 1.09E-07	< 1.09E-07	< 1.18E-07
1 Trichloroethene	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 Trichlorofluoromethane	6.38E-07	1.90E-06	5.99E-06	< 1.38E-06	2.67E-06	1.88E-06	3.42E-06	1.03E-06	4.59E-06	< 7.19E-06	1.03E-06	< 7.49E-07	
1 2 Trichloroheptafluorobutane		4.94E-06											
1 Trichlortrifluoroethane	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	7.30E-07	< 7.49E-07	< 8.09E-07
1 2 Undecane					8.62E-06			6.03E-06					
1 2 Unknown													
1 Vinyl Acetate	< 7.19E-07	< 6.59E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
1 Vinyl Chloride	< 7.19E-07	1.48E-07	< 1.56E-06	< 1.38E-06	< 1.38E-06	< 7.19E-07	< 7.49E-07	< 1.38E-06	< 7.49E-07	< 7.19E-06	< 7.49E-07	< 7.49E-07	< 8.09E-07
Total Detected	9.78E-04	6.52E-04	5.54E-04	2.16E-03	9.30E-04	2.20E-04	7.85E-05	1.86E-03	5.78E-04	4.70E-04	2.87E-04	7.46E-04	1.41E-04
Total with non-detects	< 1.01E-03	< 6.88E-04	< 6.48E-04	< 2.30E-03	< 1.01E-03	< 2.62E-04	< 1.22E-04	< 1.94E-03	< 6.17E-04	< 9.21E-04	< 3.33E-04	< 7.90E-04	< 1.92E-04

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Vol. (lbs/lb rubber)													
1 2 1-Butanol	9.03E-06							1.23E-05					
1 2 1-Chloro-4-(1-chloroethenyl) cyclohexene													
1 2 1-Chloro-5-(1-chloroethenyl) cyclohexene													
1 2 1-Chloropropane													
1-Heptene	1.88E-07	< 8.53E-09	< 1.22E-08	< 1.38E-07	7.33E-08	3.79E-08	< 1.60E-08	< 1.43E-08	4.30E-07	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
1-Hexene	< 1.51E-08	< 8.53E-09	1.16E-07	4.48E-07	< 2.67E-08	< 9.24E-09	< 1.60E-08	< 1.43E-08	4.78E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
1 2 1-Methoxybutane	2.58E-06												
1-Octene	< 1.51E-08	9.39E-08	< 1.22E-08	3.38E-06	< 2.67E-08	< 9.24E-09	< 1.60E-08	< 1.43E-08	< 1.59E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
1-Pentene	1.88E-07	2.82E-08	1.86E-07	1.38E-06	1.87E-05	< 9.24E-09	1.04E-07	1.79E-07	1.59E-07	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
1 2 1-Propanol													
1 1,1-Dichloroethene	2.19E-07	1.39E-08	< 8.38E-08	< 1.89E-07	8.80E-08	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 1,1-Dichloroethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 1,1,1-Trichloroethane	3.61E-08	1.83E-08	1.75E-08	6.03E-08	< 1.83E-07	1.14E-07	7.31E-07	1.04E-08	6.55E-08	< 4.61E-07	7.65E-07	5.64E-08	1.68E-07
1 1,1,2-Trichloroethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 1,1,2,2-Tetrachloroethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 1,2-Dibromo-3-Chloropropane	< 2.06E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	< 1.27E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
1 1,2-Dibromoethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 1,2-Dichlorobenzene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 1,2-Dichloroethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 1,2-Dichloropropane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1,2,4-Trimethylbenzene	< 7.17E-08	< 4.06E-08	1.75E-06	< 6.57E-07	2.73E-07	1.06E-07	< 7.59E-08	2.49E-07	5.38E-07	< 8.01E-08	< 6.34E-08	< 5.80E-08	< 6.67E-08
1,3-Butadiene	2.39E-07	6.17E-08	< 1.18E-08	< 1.33E-07	1.80E-07	5.79E-08	< 1.54E-08	< 1.38E-08	1.31E-07	1.43E-07	7.71E-08	2.35E-07	< 1.35E-08
1 1,3-Dichlorobenzene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1,3,5-Trimethylbenzene	2.72E-07	< 4.06E-08	< 5.82E-08	1.90E-06	4.57E-07	< 4.40E-08	8.09E-08	8.19E-08	3.19E-07	< 8.01E-08	< 6.34E-08	< 5.80E-08	< 6.67E-08
1 1,4-Dichlorobenzene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1,4-Diethylbenzene + n-Butylbenzene	< 7.20E-08	< 4.08E-08	< 5.85E-08	< 6.60E-07	< 1.28E-07	1.11E-07	7.18E-08	< 6.86E-08	< 7.62E-08	< 8.05E-08	< 6.38E-08	3.67E-07	< 6.70E-08
1 1,4-Dioxane	< 4.13E-07	< 2.34E-07	< 3.35E-07	< 7.56E-07	< 7.31E-07	< 2.53E-07	< 4.37E-07	< 3.93E-07	< 4.37E-07	< 1.85E-06	< 3.65E-07	< 3.34E-07	< 3.84E-07
1 2 2-Butanol				2.36E-06									
1 2-Butanone	3.10E-07	8.78E-08	3.95E-08	1.04E-06	1.26E-06	6.30E-08	1.30E-07	4.73E-07	4.37E-06	< 9.23E-07	1.83E-07	3.34E-07	5.76E-08
1 2 2-Butene													
1 2-Hexanone	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
2-Methyl-1-butene	2.18E-06	2.30E-08	7.94E-08	< 1.38E-07	< 2.67E-08	< 9.24E-09	5.66E-08	< 1.43E-08	< 1.59E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
2-Methyl-2-butene	< 1.51E-08	< 8.53E-09	< 1.22E-08	< 1.38E-07	< 2.67E-08	< 9.24E-09	< 1.60E-08	< 1.43E-08	1.12E-07	1.04E-07	3.73E-07	4.87E-07	4.97E-07
2-Methyl-2-pentene	< 1.51E-08	< 8.53E-09	2.96E-08	< 1.38E-07	< 2.67E-08	< 9.24E-09	< 1.60E-08	7.88E-08	< 1.59E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
2-Methylheptane	5.06E-07	2.17E-08	2.55E-08	< 1.40E-07	< 2.71E-08	3.76E-08	4.43E-08	< 1.46E-08	4.14E-07	< 1.71E-08	< 1.36E-08	< 1.24E-08	< 1.43E-08
2-Methylhexane	3.84E-07	1.31E-07	4.05E-07	< 1.41E-07	8.17E-08	4.58E-08	< 1.63E-08	1.79E-07	1.06E-06	< 1.72E-08	7.48E-08	7.46E-08	< 1.43E-08

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
	Speciated Vol. (lbs/lb rubber)													
	2-Methylpentane	1.23E-07	9.61E-08	< 1.25E-08	4.87E-07	1.71E-07	5.21E-08	< 1.63E-08	1.91E-06	4.49E-07	2.55E-07	2.12E-07	1.81E-07	2.01E-07
	2,2-Dimethylbutane	< 1.54E-08	< 8.74E-09	< 1.25E-08	< 1.41E-07	< 2.73E-08	< 9.46E-09	< 1.63E-08	1.03E-07	4.49E-08	< 1.72E-08	< 1.36E-08	9.98E-08	5.30E-08
	2,2-Dimethylpropane	< 1.55E-08	< 8.78E-09	< 1.26E-08	< 1.42E-07	< 2.74E-08	< 9.51E-09	< 1.64E-08	< 1.47E-08	< 1.64E-08	< 1.73E-08	< 1.37E-08	< 1.25E-08	< 1.44E-08
	2,3-Dimethylpentane	1.38E-07	< 8.71E-09	< 1.25E-08	< 1.41E-07	3.27E-08	1.98E-08	< 1.63E-08	1.06E-07	3.82E-07	< 1.72E-08	< 1.36E-08	< 1.24E-08	< 1.43E-08
	2,3,4-Trimethylpentane	< 1.53E-08	< 8.69E-09	< 1.24E-08	< 1.40E-07	< 2.71E-08	< 9.41E-09	< 1.62E-08	< 1.46E-08	2.92E-07	< 1.71E-08	< 1.36E-08	< 1.24E-08	< 1.43E-08
	2,4-Dimethylhexane	1.15E-07	< 8.69E-09	< 1.24E-08	< 1.40E-07	< 2.71E-08	< 9.41E-09	< 1.62E-08	< 1.46E-08	5.84E-07	< 1.71E-08	< 1.36E-08	< 1.24E-08	< 1.43E-08
1	2 3-Methyl-2-Butanone													
	3-Methylhexane	5.76E-07	4.14E-08	3.09E-08	< 1.41E-07	1.22E-07	7.08E-08	6.63E-08	1.43E-07	1.46E-06	6.52E-07	6.19E-08	5.84E-08	5.72E-08
	3-Methylpentane	2.16E-07	1.27E-07	9.39E-08	4.73E-07	1.57E-07	4.73E-08	1.02E-07	1.03E-07	3.67E-07	2.00E-07	1.91E-07	2.50E-07	2.51E-07
	4-Methyl-1-pentene	< 1.51E-08	< 8.53E-09	< 1.22E-08	< 1.38E-07	< 2.67E-08	< 9.24E-09	< 1.60E-08	< 1.43E-08	1.12E-07	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
1	4-Methyl-2-Pentanone	8.26E-07	4.90E-08	8.64E-08	1.65E-07	4.57E-06	< 6.34E-08	1.91E-07	2.76E-08	1.37E-05	< 4.61E-07	6.62E-08	1.00E-07	5.76E-08
1	2 4,4-Dimethyl-2-Pentanone													
1	2 Acetaldehyde		5.12E-07											
1	2 Acetaldehyde+Isobutane													
1	Acetone	6.06E-06	5.19E-07	2.85E-07	1.04E-06	5.14E-06	4.83E-06	8.89E-07	1.60E-05	1.19E-05	< 9.23E-07	< 1.83E-07	1.02E-06	< 1.92E-07
1	Acetonitrile	< 2.06E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	4.63E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
1	2 Acetophenone													
	Acetylene	3.49E-07	2.18E-07	1.22E-07	< 1.28E-07	2.04E-07	1.24E-07	3.81E-07	2.43E-07	3.92E-07	< 1.56E-08	< 1.24E-08	< 1.13E-08	< 1.30E-08
1	Acrolein	8.26E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	< 1.27E-07	< 2.19E-07	2.27E-07	3.00E-07	< 9.23E-07	3.54E-07	1.25E-06	1.44E-06
1	Acrylonitrile	1.17E-05	< 1.17E-07	< 1.68E-07	< 3.78E-07	8.00E-07	< 1.27E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
1	Allyl Chloride	< 2.06E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	< 1.27E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
	a-Pinene	< 1.46E-08	< 8.29E-09	< 1.19E-08	< 1.34E-07	1.23E-07	< 8.98E-09	< 1.55E-08	5.92E-08	4.18E-07	< 1.63E-08	5.31E-08	5.62E-07	< 1.36E-08
	Benzene	5.24E-07	1.74E-08	2.61E-08	< 1.28E-07	3.77E-08	1.42E-07	5.92E-08	< 1.33E-08	8.87E-08	< 1.56E-08	3.28E-08	7.92E-08	< 1.30E-08
1	Benzyl Chloride	< 2.06E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	< 1.27E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
1	2 bis(1-Methylethyl)Benzene											1.03E-06	2.09E-06	
1	2 bis(1,1-dimethylethyl)peroxide						1.39E-06							
	b-Pinene	1.61E-05	6.63E-08	< 5.93E-08	< 6.70E-07	< 1.30E-07	7.18E-06	< 7.75E-08	7.31E-08	1.62E-06	< 8.17E-08	< 6.47E-08	< 5.92E-08	< 6.80E-08
1	Bromodichloromethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	Bromoform	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	Bromomethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	5.62E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	2 Butanal	9.03E-06							2.46E-06					
1	2 Butane											6.85E-07		2.40E-07
1	2 C10-C11 Branched Alkane				4.73E-06	1.37E-06								6.00E-07
1	2 C10H18 Polycyclic Hydrocarbon											1.83E-05	5.12E-05	
1	2 C10H20 Alkyl Substituted Cyclohexane	7.74E-06												
1	2 C11-C12 Branched Alkane		2.93E-07		3.07E-05	6.86E-07			5.53E-07			9.14E-07	4.18E-06	

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		COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
	Speciated Vol. (lbs/lb rubber)													
1 2	C11H22 Alkene									2.73E-06				
1 2	C12H24 Alkene									4.10E-06			2.09E-06	
1 2	C4 Aldehyde													
1 2	C5 Aldehyde													
1 2	C6H10 O2 Acid Ester				1.18E-05									
1 2	C8H12 Cyclic alkene											1.03E-06	3.13E-06	
1 2	C8H16 Alkene													
1 2	C9H10 Alkyl Substituted Benzene					9.14E-07								
1 2	C9H12 Alkyl Substituted Benzene					9.14E-07								
1 2	C9H12 Polycyclic Alkene													
1	Carbon Disulfide	4.26E-06	1.54E-07	4.50E-08	< 1.89E-07	3.54E-05	< 6.34E-08	2.60E-07	4.36E-08	9.56E-08	5.07E-07	2.63E-07	3.45E-07	9.24E-08
1	Carbon Tetrachloride	< 1.03E-07	4.68E-05	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	2.36E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 2	Carbonyl sulfide		2.93E-07											
1	Chlorobenzene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1 2	Chlorobutadiene+Methylpentane													
1	Chlorodibromomethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	Chloroethane	< 1.03E-07	< 5.85E-08	1.70E-06	2.01E-07	< 1.83E-07	< 6.34E-08	4.24E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	Chloroform	2.45E-08	6.51E-07	1.23E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	1.72E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	Chloromethane	3.61E-08	1.02E-07	1.44E-08	8.86E-07	< 1.83E-07	1.48E-07	3.35E-07	3.93E-07	3.82E-08	< 4.61E-07	5.71E-08	7.41E-08	2.88E-08
1	cis-1,2-Dichloroethene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	cis-1,3-Dichloropropene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
	cis-2-Butene	< 1.51E-08	< 8.53E-09	< 1.22E-08	< 1.38E-07	< 2.67E-08	< 9.24E-09	< 1.60E-08	< 1.43E-08	< 1.59E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
	cis-2-Hexene	< 1.51E-08	< 8.53E-09	< 1.22E-08	7.59E-07	< 2.67E-08	8.32E-08	< 1.60E-08	8.60E-08	1.67E-07	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
	cis-2-Pentene	2.86E-07	1.15E-07	6.11E-08	2.48E-06	2.20E-07	8.78E-08	1.48E-07	4.30E-05	1.59E-07	1.04E-07	< 1.33E-08	< 1.22E-08	< 1.40E-08
	Cumene	< 1.43E-08	< 8.12E-09	< 1.16E-08	< 1.31E-07	1.21E-07	1.06E-06	< 1.52E-08	2.80E-08	5.61E-08	< 1.60E-08	1.08E-07	2.96E-07	< 1.33E-08
1 2	Cyclobutane					1.03E-06			1.84E-06	1.37E-06				
	Cyclohexane	2.78E-07	3.16E-08	1.77E-08	< 1.38E-07	3.40E-08	1.66E-08	< 1.60E-08	2.65E-07	4.46E-07	5.72E-08	1.00E-07	1.28E-07	1.40E-06
1 2	Cyclooctadiene	2.58E-05												
	Cyclopentane + 2,3-Dimethylbutane	4.86E-08	2.14E-08	8.51E-08	< 1.54E-07	3.71E-08	2.01E-07	1.11E-07	5.99E-06	9.76E-08	6.37E-08	6.09E-08	4.75E-08	5.54E-08
	Cyclopentene	< 1.46E-08	< 8.29E-09	< 1.19E-08	< 1.34E-07	< 2.59E-08	< 8.98E-09	< 1.55E-08	< 1.39E-08	< 1.55E-08	< 1.63E-08	< 1.29E-08	< 1.18E-08	< 1.36E-08
1 2	Decane		3.66E-07			3.43E-06	1.06E-07		1.23E-06					3.60E-07
1	Dichlorodifluoromethane	< 1.03E-07	2.49E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	4.85E-08	< 9.83E-08	4.23E-08	< 4.61E-07	< 9.14E-08	3.86E-08	
	d-Limonene	< 7.31E-08	< 4.14E-08	< 5.93E-08	< 6.70E-07	9.07E-08	< 4.49E-08	< 7.75E-08	< 6.96E-08	6.65E-07	< 8.17E-08	< 6.47E-08	1.18E-07	< 6.80E-08
1	Epichlorohydrin	< 2.06E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	< 1.27E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
	Ethane	1.77E-07	1.14E-07	5.89E-08	1.92E-06	2.57E-07	1.14E-07	1.67E-07	1.23E-07	2.56E-07	< 1.80E-08	1.93E-07	2.74E-07	5.33E-07
1 2	Ethanol			1.57E-05	2.36E-05			1.37E-06		1.37E-06				

1 = TO14 Compound 2 = Tentatively Identified Compound

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TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Speciated Vol. (lbs/lb rubber)													
1 2 Ethenylcyclohexene	1.29E-05												
1 2 Ethyl Acetate			5.24E-06										
1 2 Ethyl Acrylate				4.73E-06									
Ethylacetylene	< 1.45E-08	< 8.23E-09	1.03E-07	< 1.33E-07	< 2.57E-08	< 8.91E-09	< 1.54E-08	< 1.38E-08	< 1.54E-08	< 1.62E-08	< 1.28E-08	< 1.17E-08	< 1.35E-08
Ethylbenzene	6.12E-08	4.84E-08	< 1.16E-08	< 1.30E-07	2.78E-07	3.24E-08	7.92E-08	< 1.36E-08	1.28E-07	< 1.59E-08	4.67E-08	9.22E-08	< 1.32E-08
Ethylene	1.35E-07	3.41E-08	< 1.22E-08	1.93E-05	1.13E-07	3.10E-08	2.19E-07	< 1.43E-08	6.05E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
1 2 Heptane	1.29E-06					1.06E-07			5.46E-06				
1 2 Heptanone		3.66E-07						3.07E-07					2.40E-07
1 Hexachlorobutadiene	< 2.06E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	< 1.27E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
1 2 Hexachloroethane		6.58E-07											
1 2 Isobutanal													
Isobutane	< 1.56E-08	1.77E-08	< 1.27E-08	< 1.43E-07	< 2.76E-08	< 9.58E-09	< 1.65E-08	< 1.48E-08	1.16E-07	8.71E-08	6.14E-08	8.20E-08	1.60E-07
Isobutylene + 1-Butene	2.41E-07	1.79E-07	8.86E-08	< 1.38E-07	4.93E-07	4.30E-08	2.75E-07	1.72E-06	1.19E-06	< 1.68E-08	< 1.33E-08	9.14E-08	4.20E-08
Isooctane	2.60E-07	4.78E-08	< 1.24E-08	< 1.40E-07	7.47E-08	4.56E-08	6.90E-08	2.12E-07	7.95E-07	< 1.71E-08	9.50E-08	9.92E-08	6.77E-08
Isopentane	2.94E-06	3.95E-07	< 1.26E-08	5.32E-06	2.39E-06	2.04E-07	5.25E-07	1.14E-05	< 1.64E-08	7.96E-07	4.39E-07	6.27E-07	6.84E-07
Isoprene	4.75E-08	< 8.29E-09	1.87E-08	< 1.34E-07	< 2.59E-08	< 8.98E-09	< 1.55E-08	< 1.39E-08	< 1.55E-08	< 1.63E-08	< 1.29E-08	< 1.18E-08	< 1.36E-08
1 2 Isopropyl Alcohol				2.36E-06	3.43E-05		4.79E-07	3.07E-07					
1 2 Methyl Acrylate				3.55E-05									
1 2 Methyl Isothiocyanate													
Methylacetylene	< 1.40E-08	< 7.92E-09	< 1.13E-08	< 1.28E-07	< 2.48E-08	< 8.58E-09	< 1.48E-08	< 1.33E-08	< 1.48E-08	< 1.56E-08	< 1.24E-08	< 1.13E-08	< 1.30E-08
Methylcyclohexane	8.28E-07	8.53E-08	5.19E-08	< 1.38E-07	3.53E-07	2.22E-07	1.28E-07	1.36E-07	3.11E-06	1.65E-07	1.07E-07	1.10E-07	9.10E-08
Methylcyclopentane	1.28E-07	1.24E-07	4.58E-08	4.62E-07	1.07E-07	4.53E-08	9.17E-08	5.37E-08	2.47E-07	1.55E-07	1.47E-07	1.16E-07	4.69E-07
1 Methylene Chloride	1.68E-06	7.02E-07	5.00E-07	1.65E-05	8.68E-07	3.74E-07	1.03E-06	2.82E-07	1.01E-06	1.10E-06	1.37E-06	2.30E-06	5.36E-06
1 2 Methylhexane	7.74E-07								5.46E-06				
1 2 Methylpentane		4.39E-07							8.19E-07		7.99E-07		1.44E-06
m-Ethyltoluene	1.29E-07	< 8.12E-09	6.11E-08	< 1.31E-07	1.27E-07	< 8.80E-09	4.52E-08	5.46E-08	< 1.52E-08	< 1.60E-08	< 1.27E-08	< 1.16E-08	< 1.33E-08
m-Xylene + p-Xylene	3.35E-07	3.07E-07	1.07E-07	4.76E-07	8.83E-07	1.01E-07	3.36E-07	1.42E-07	4.22E-07	1.18E-07	1.20E-07	2.02E-07	< 1.32E-08
n-Butane	4.05E-07	7.07E-08	7.28E-08	4.14E-06	9.67E-08	4.79E-08	1.24E-07	7.79E-08	3.80E-07	4.53E-07	3.45E-07	3.22E-07	4.21E-07
n-Decane	2.60E-07	6.92E-08	< 6.20E-08	7.69E-07	1.15E-06	< 4.69E-08	1.21E-07	5.45E-07	1.29E-06	1.30E-07	< 6.76E-08	< 6.18E-08	< 7.10E-08
n-Heptane	6.53E-07	6.10E-08	3.43E-08	< 1.41E-07	1.97E-07	1.37E-07	9.77E-08	1.43E-07	2.76E-06	9.27E-08	8.84E-08	9.33E-08	7.00E-08
n-Hexane	6.78E-07	7.88E-07	1.81E-06	1.13E-04	4.03E-07	2.37E-07	4.86E-07	2.53E-07	7.75E-07	6.22E-07	3.72E-07	2.71E-07	4.62E-07
n-Nonane	1.84E-07	< 8.67E-09	< 1.24E-08	< 1.40E-07	4.88E-07	8.92E-08	< 1.62E-08	2.88E-07	5.75E-08	< 1.71E-08	< 1.35E-08	6.19E-08	< 1.42E-08
n-Octane	7.35E-08	4.04E-08	< 1.24E-08	< 1.40E-07	< 2.71E-08	< 9.41E-09	< 1.62E-08	< 1.46E-08	9.73E-08	< 1.71E-08	< 1.36E-08	< 1.24E-08	< 1.43E-08
1 2 Nonane								6.14E-07					
n-Pentane	< 1.55E-08	4.39E-08	< 1.26E-08	6.03E-07	1.65E-07	2.95E-08	< 1.64E-08	4.05E-08	2.79E-07	3.46E-07	8.91E-08	9.40E-08	1.58E-07

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-3
SMALL MIXER 2 SPECIATED VOLATILES SUMMARY

		COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
	Speciated Vol. (lbs/lb rubber)													
1	*2* n-Propane													
	n-Propylbenzene	< 1.43E-08	< 8.12E-09	4.95E-08	< 1.31E-07	< 2.54E-08	< 8.80E-09	< 1.52E-08	< 1.36E-08	< 1.52E-08	< 1.60E-08	8.25E-08	4.87E-07	6.40E-08
1	*2* n-Undecane													
	o-Ethyltoluene	< 7.17E-08	< 4.06E-08	< 5.82E-08	< 6.57E-07	< 1.27E-07	< 4.40E-08	< 7.59E-08	< 6.82E-08	1.52E-07	< 8.01E-08	< 6.34E-08	< 5.80E-08	< 6.67E-08
	o-Xylene	*1.71E-07*	*8.07E-08*	*5.49E-08*	*5.09E-07*	*3.66E-07*	*4.81E-08*	1.25E-07	1.59E-07	3.62E-07	< 1.59E-08	< 1.26E-08	< 1.15E-08	< 1.32E-08
	p-Cymene	1.30E-07	< 4.08E-08	< 5.85E-08	9.24E-07	2.30E-07	< 4.42E-08	< 7.63E-08	1.44E-07	1.14E-06	< 8.05E-08	9.56E-08	4.49E-07	< 6.70E-08
1	*2* Pentane													6.00E-07
1	*2* Pentene													
	p-Ethyltoluene	< 1.43E-08	< 8.12E-09	< 1.16E-08	< 1.31E-07	< 2.54E-08	< 8.80E-09	< 1.52E-08	9.89E-08	1.90E-07	< 1.60E-08	3.93E-07	1.97E-06	< 1.33E-08
1	*2* Propanal													
	Propane	5.60E-06	4.43E-08	4.48E-08	1.23E-06	1.05E-07	5.81E-08	2.26E-07	1.05E-07	2.09E-07	< 1.76E-08	3.28E-07	1.53E-07	2.49E-07
1	*2* Propylcyclohexane					8.00E-07								
	Propylene	1.05E-07	< 8.53E-09	< 1.22E-08	< 1.38E-07	4.40E-08	< 9.24E-09	< 1.60E-08	< 1.43E-08	< 1.59E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
1	Propylene Oxide	6.97E-06	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	< 1.27E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
	Styrene	6.50E-08	< 7.92E-09	< 1.13E-08	< 1.28E-07	5.45E-08	< 8.58E-09	< 1.48E-08	6.32E-08	1.48E-06	< 1.56E-08	4.39E-06	6.22E-06	< 1.30E-08
1	t-Butyl Methyl Ether	< 2.06E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-07	< 1.27E-07	< 2.19E-07	7.98E-06	< 2.18E-07	< 9.23E-07	< 1.83E-07	< 1.67E-07	< 1.92E-07
1	*2* tert-Butyl Alcohol								1.84E-05					
1	Tetrachloroethene	1.42E-07	6.95E-07	< 8.38E-08	< 1.89E-07	7.66E-08	2.81E-08	7.59E-08	< 9.83E-08	1.91E-06	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	*2* Tetrahydrofuran						1.45E-07							
	Toluene	1.55E-06	3.16E-07	1.75E-07	1.04E-06	6.88E-07	4.34E-07	4.75E-07	1.38E-07	2.47E-06	2.31E-05	2.13E-07	1.60E-07	1.05E-07
1	trans-1,2-Dichloroethene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	trans-1,2-Dichloropropene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
	trans-2-Butene	< 1.51E-08	5.12E-07	< 1.22E-08	< 1.38E-07	< 2.67E-08	< 9.24E-09	1.87E-07	< 1.43E-08	< 1.59E-08	7.40E-07	< 1.33E-08	< 1.22E-08	< 1.40E-08
	trans-2-Hexene	< 1.51E-08	< 8.53E-09	< 1.22E-08	< 1.38E-07	< 2.67E-08	< 9.24E-09	< 1.60E-08	< 1.43E-08	< 1.59E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
	trans-2-Pentene	8.28E-08	< 8.53E-09	< 1.22E-08	< 1.38E-07	4.80E-08	< 9.24E-09	< 1.60E-08	< 1.43E-08	< 1.59E-08	< 1.68E-08	< 1.33E-08	< 1.22E-08	< 1.40E-08
1	Trichloroethene	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	*Trichlorofluoromethane*	9.16E-08	1.68E-07	3.22E-07	< 1.89E-07	3.54E-07	1.66E-07	4.99E-07	7.37E-08	6.69E-07	< 4.61E-07	1.26E-07	< 8.35E-08	
1	*2* Trichloroheptafluorobutane		4.39E-07											
1	Trichlortrifluoroethane	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	8.91E-08	< 8.35E-08	< 9.60E-08
1	*2* Undecane					1.14E-06			4.30E-07					
1	*2* Unknown													
1	Vinyl Acetate	< 1.03E-07	< 5.85E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
1	Vinyl Chloride	< 1.03E-07	1.32E-08	< 8.38E-08	< 1.89E-07	< 1.83E-07	< 6.34E-08	< 1.09E-07	< 9.83E-08	< 1.09E-07	< 4.61E-07	< 9.14E-08	< 8.35E-08	< 9.60E-08
	Total Detected	1.40E-04	5.78E-05	2.98E-05	2.97E-04	1.23E-04	1.94E-05	1.15E-05	1.33E-04	8.43E-05	3.02E-05	3.50E-05	8.31E-05	1.68E-05
	Total with non-detects	< 1.45E-04	< 6.10E-05	< 3.48E-05	< 3.16E-04	< 1.34E-04	< 2.31E-05	< 1.78E-05	< 1.38E-04	< 9.00E-05	< 5.91E-05	< 4.06E-05	< 8.80E-05	< 2.28E-05

1 = TO14 Compound 2 = Tentatively Identified Compound

TABLE B.1-4

SMALL MIXER 2 SULFUR SUMMARY

Compounds	CAS Number	COMPOUND #1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Sulfur (µg/m³)														
Carbonyl Sulfide	463-58-1	< 20.0	< 9.8	< 9.8	< 9.8	52.4	83.2	< 9.8	1680.0	72.3	< 20.0	< 20.0	584.0	52.8
Methyl Mercaptan	74-93-1	< 16.0	< 7.9	< 7.9	< 7.9	< 7.9	< 7.9	< 7.9	< 79.0	< 7.9	< 16.0	< 16.0	< 79.0	< 7.9
Ethyl Mercaptan	75-08-1	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 100.0	< 10.0	< 20.0	< 20.0	< 100.0	< 10.0
Dimethyl Sulfide	75-18-3	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 100.0	< 10.0	< 20.0	< 20.0	< 100.0	< 10.0
Carbon Disulfide	75-15-0	< 12.0	< 6.2	< 6.2	< 6.2	< 6.2	94.8	< 6.2	1820.0	41.5	1840.0	1130.0	2660.0	< 6.2
Isopropyl Mercaptan	75-33-2	< 25.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 120.0	< 12.0	< 25.0	< 25.0	< 120.0	< 12.0
tert-Butyl Mercaptan	75-66-1	< 29.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 150.0	< 15.0	< 29.0	< 29.0	< 150.0	< 15.0
n-Propyl Mercaptan	107-03-9	< 25.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 120.0	< 12.0	< 25.0	< 25.0	< 120.0	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 25.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 120.0	< 12.0	< 25.0	< 25.0	< 120.0	< 12.0
Thiophene	110-02-1	< 28.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 140.0	< 14.0	< 28.0	< 28.0	< 140.0	< 14.0
Isobutyl Mercaptan	513-44-0	< 29.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 150.0	< 15.0	< 29.0	< 29.0	< 150.0	< 15.0
Diethyl Sulfide	352-93-2	< 29.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 150.0	< 15.0	< 29.0	< 29.0	< 150.0	< 15.0
n-Butyl Mercaptan	109-79-5	< 29.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 150.0	< 15.0	< 29.0	< 29.0	< 150.0	< 15.0
Dimethyl Disulfide	624-92-0	< 15.0	< 7.7	< 7.7	< 7.7	25.1	< 7.7	< 7.7	< 77.0	< 7.7	< 15.0	< 15.0	< 77.0	< 7.7
3-Methylthiophene	616-44-4	< 32.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 160.0	< 16.0	< 32.0	< 32.0	< 160.0	< 16.0
Tetrahydrothiophene	110-01-0	< 29.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 140.0	< 14.0	< 29.0	< 29.0	< 140.0	< 14.0
2-Ethylthiophene	872-55-9	< 37.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 180.0	< 18.0	< 37.0	< 37.0	< 180.0	< 18.0
2,5-Dimethylthiophene	638-02-8	< 37.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 180.0	< 18.0	< 37.0	< 37.0	< 180.0	< 18.0
Diethyl Disulfide	110-81-6	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 100.0	< 10.0	< 20.0	< 20.0	< 100.0	< 10.0
Total Detected		0.0	0.0	0.0	0.0	77.5	178.0	0.0	3500.0	113.8	1840.0	1130.0	3244.0	52.8
Total with non-detects		< 477.0	< 237.6	< 237.6	< 237.6	< 297.6	< 399.6	< 237.6	< 5716.0	< 335.4	< 2305.0	< 1595.0	< 5460.0	< 280.6

TRC

TABLE B.1-4

SMALL MIXER 2 SULFUR SUMMARY

Compounds	CAS Number	COMPOUND #1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Sulfur (lbs/hr)														
Carbonyl Sulfide	463-58-1	< 1.65E-06	< 9.54E-07	< 9.18E-07	< 8.44E-07	4.32E-06	7.17E-06	< 8.44E-07	1.45E-04	6.23E-06	< 1.72E-06	< 1.72E-06	5.03E-05	4.55E-06
Methyl Mercaptan	74-93-1	< 1.32E-06	< 7.69E-07	< 7.40E-07	< 6.81E-07	< 6.51E-07	< 6.81E-07	< 6.81E-07	< 6.81E-06	< 6.81E-07	< 1.38E-06	< 1.38E-06	< 6.81E-06	< 6.81E-07
Ethyl Mercaptan	75-08-1	< 1.65E-06	< 9.74E-07	< 9.37E-07	< 8.62E-07	< 8.24E-07	< 8.62E-07	< 8.62E-07	< 8.62E-06	< 8.62E-07	< 1.72E-06	< 1.72E-06	< 8.62E-06	< 8.62E-07
Dimethyl Sulfide	75-18-3	< 1.65E-06	< 9.74E-07	< 9.37E-07	< 8.62E-07	< 8.24E-07	< 8.62E-07	< 8.62E-07	< 8.62E-06	< 8.62E-07	< 1.72E-06	< 1.72E-06	< 8.62E-06	< 8.62E-07
Carbon Disulfide	75-15-0	< 9.89E-07	< 6.04E-07	< 5.81E-07	< 5.34E-07	< 5.11E-07	8.17E-06	< 5.34E-07	1.57E-04	3.58E-06	1.59E-04	9.74E-05	2.29E-04	< 5.34E-07
Isopropyl Mercaptan	75-33-2	< 2.06E-06	< 1.17E-06	< 1.12E-06	< 1.03E-06	< 9.89E-07	< 1.03E-06	< 1.03E-06	< 1.03E-05	< 1.03E-06	< 2.15E-06	< 2.15E-06	< 1.03E-05	< 1.03E-06
tert-Butyl Mercaptan	75-66-1	< 2.39E-06	< 1.46E-06	< 1.40E-06	< 1.29E-06	< 1.24E-06	< 1.29E-06	< 1.29E-06	< 1.29E-05	< 1.29E-06	< 2.50E-06	< 2.50E-06	< 1.29E-05	< 1.29E-06
n-Propyl Mercaptan	107-03-9	< 2.06E-06	< 1.17E-06	< 1.12E-06	< 1.03E-06	< 9.89E-07	< 1.03E-06	< 1.03E-06	< 1.03E-05	< 1.03E-06	< 2.15E-06	< 2.15E-06	< 1.03E-05	< 1.03E-06
Ethyl Methyl Sulfide	624-89-5	< 2.06E-06	< 1.17E-06	< 1.12E-06	< 1.03E-06	< 9.89E-07	< 1.03E-06	< 1.03E-06	< 1.03E-05	< 1.03E-06	< 2.15E-06	< 2.15E-06	< 1.03E-05	< 1.03E-06
Thiophene	110-02-1	< 2.31E-06	< 1.36E-06	< 1.31E-06	< 1.21E-06	< 1.15E-06	< 1.21E-06	< 1.21E-06	< 1.21E-05	< 1.21E-06	< 2.41E-06	< 2.41E-06	< 1.21E-05	< 1.21E-06
Isobutyl Mercaptan	513-44-0	< 2.39E-06	< 1.46E-06	< 1.40E-06	< 1.29E-06	< 1.24E-06	< 1.29E-06	< 1.29E-06	< 1.29E-05	< 1.29E-06	< 2.50E-06	< 2.50E-06	< 1.29E-05	< 1.29E-06
Diethyl Sulfide	352-93-2	< 2.39E-06	< 1.46E-06	< 1.40E-06	< 1.29E-06	< 1.24E-06	< 1.29E-06	< 1.29E-06	< 1.29E-05	< 1.29E-06	< 2.50E-06	< 2.50E-06	< 1.29E-05	< 1.29E-06
n-Butyl Mercaptan	109-79-5	< 2.39E-06	< 1.46E-06	< 1.40E-06	< 1.29E-06	< 1.24E-06	< 1.29E-06	< 1.29E-06	< 1.29E-05	< 1.29E-06	< 2.50E-06	< 2.50E-06	< 1.29E-05	< 1.29E-06
Dimethyl Disulfide	624-92-0	< 1.24E-06	< 7.50E-07	< 7.21E-07	< 6.63E-07	2.07E-06	< 6.63E-07	< 6.63E-07	< 6.63E-06	< 6.63E-07	< 1.29E-06	< 1.29E-06	< 6.63E-06	< 6.63E-07
3-Methylthiophene	616-44-4	< 2.64E-06	< 1.56E-06	< 1.50E-06	< 1.38E-06	< 1.32E-06	< 1.38E-06	< 1.38E-06	< 1.38E-05	< 1.38E-06	< 2.76E-06	< 2.76E-06	< 1.38E-05	< 1.38E-06
Tetrahydrothiophene	110-01-0	< 2.39E-06	< 1.36E-06	< 1.31E-06	< 1.21E-06	< 1.15E-06	< 1.21E-06	< 1.21E-06	< 1.21E-05	< 1.21E-06	< 2.50E-06	< 2.50E-06	< 1.21E-05	< 1.21E-06
2-Ethylthiophene	872-55-9	< 3.05E-06	< 1.75E-06	< 1.69E-06	< 1.55E-06	< 1.48E-06	< 1.55E-06	< 1.55E-06	< 1.55E-05	< 1.55E-06	< 3.19E-06	< 3.19E-06	< 1.55E-05	< 1.55E-06
2,5-Dimethylthiophene	638-02-8	< 3.05E-06	< 1.75E-06	< 1.69E-06	< 1.55E-06	< 1.48E-06	< 1.55E-06	< 1.55E-06	< 1.55E-05	< 1.55E-06	< 3.19E-06	< 3.19E-06	< 1.55E-05	< 1.55E-06
Diethyl Disulfide	110-81-6	< 1.65E-06	< 9.74E-07	< 9.37E-07	< 8.62E-07	< 8.24E-07	< 8.62E-07	< 8.62E-07	< 8.62E-06	< 8.62E-07	< 1.72E-06	< 1.72E-06	< 8.62E-06	< 8.62E-07
Total Detected		0.0	0.0	0.0	0.0	6.39E-06	1.53E-05	0.0	3.02E-04	9.80E-06	1.59E-04	9.74E-05	2.79E-04	4.55E-06
Total with non-detects		< 3.93E-05	< 2.31E-05	< 2.23E-05	< 2.05E-05	< 2.45E-05	< 3.44E-05	< 2.05E-05	< 4.92E-04	< 2.89E-05	< 1.99E-04	< 1.37E-04	< 4.70E-04	< 2.42E-05

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TABLE B.1-4

SMALL MIXER 2 SULFUR SUMMARY

Compounds	CAS Number	COMPOUND #1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Sulfur (lb/lb rubber)														
Carbonyl Sulfide	463-58-1	< 2.32E-07	< 1.61E-07	< 3.15E-07	< 1.22E-07	5.34E-07	1.59E-06	< 2.33E-07	2.24E-05	1.15E-06	< 2.44E-07	< 1.23E-07	6.14E-06	5.85E-07
Methyl Mercaptan	74-93-1	< 1.85E-07	< 1.30E-07	< 2.54E-07	< 9.82E-08	< 8.06E-08	< 1.51E-07	< 1.88E-07	< 1.06E-06	< 1.25E-07	< 1.95E-07	< 9.87E-08	< 8.30E-07	< 8.76E-08
Ethyl Mercaptan	75-08-1	< 2.32E-07	< 1.64E-07	< 3.22E-07	< 1.24E-07	< 1.02E-07	< 1.91E-07	< 2.37E-07	< 1.34E-06	< 1.59E-07	< 2.44E-07	< 1.23E-07	< 1.05E-06	< 1.11E-07
Dimethyl Sulfide	75-18-3	< 2.32E-07	< 1.64E-07	< 3.22E-07	< 1.24E-07	< 1.02E-07	< 1.91E-07	< 2.37E-07	< 1.34E-06	< 1.59E-07	< 2.44E-07	< 1.23E-07	< 1.05E-06	< 1.11E-07
Carbon Disulfide	75-15-0	< 1.39E-07	< 1.02E-07	< 2.00E-07	< 7.71E-08	< 6.32E-08	1.82E-06	< 1.47E-07	2.43E-05	6.58E-07	2.25E-05	6.97E-06	2.79E-05	< 6.87E-08
Isopropyl Mercaptan	75-33-2	< 2.90E-07	< 1.97E-07	< 3.86E-07	< 1.49E-07	< 1.22E-07	< 2.30E-07	< 2.85E-07	< 1.60E-06	< 1.90E-07	< 3.05E-07	< 1.54E-07	< 1.26E-06	< 1.33E-07
tert-Butyl Mercaptan	75-66-1	< 3.36E-07	< 2.46E-07	< 4.83E-07	< 1.86E-07	< 1.53E-07	< 2.87E-07	< 3.56E-07	< 2.00E-06	< 2.38E-07	< 3.54E-07	< 1.79E-07	< 1.58E-06	< 1.66E-07
n-Propyl Mercaptan	107-03-9	< 2.90E-07	< 1.97E-07	< 3.86E-07	< 1.49E-07	< 1.22E-07	< 2.30E-07	< 2.85E-07	< 1.60E-06	< 1.90E-07	< 3.05E-07	< 1.54E-07	< 1.26E-06	< 1.33E-07
Ethyl Methyl Sulfide	624-89-5	< 2.90E-07	< 1.97E-07	< 3.86E-07	< 1.49E-07	< 1.22E-07	< 2.30E-07	< 2.85E-07	< 1.60E-06	< 1.90E-07	< 3.05E-07	< 1.54E-07	< 1.26E-06	< 1.33E-07
Thiophene	110-02-1	< 3.25E-07	< 2.30E-07	< 4.51E-07	< 1.74E-07	< 1.43E-07	< 2.68E-07	< 3.32E-07	< 1.87E-06	< 2.22E-07	< 3.42E-07	< 1.73E-07	< 1.47E-06	< 1.55E-07
Isobutyl Mercaptan	513-44-0	< 3.36E-07	< 2.46E-07	< 4.83E-07	< 1.86E-07	< 1.53E-07	< 2.87E-07	< 3.56E-07	< 2.00E-06	< 2.38E-07	< 3.54E-07	< 1.79E-07	< 1.58E-06	< 1.66E-07
Diethyl Sulfide	352-93-2	< 3.36E-07	< 2.46E-07	< 4.83E-07	< 1.86E-07	< 1.53E-07	< 2.87E-07	< 3.56E-07	< 2.00E-06	< 2.38E-07	< 3.54E-07	< 1.79E-07	< 1.58E-06	< 1.66E-07
n-Butyl Mercaptan	109-79-5	< 3.36E-07	< 2.46E-07	< 4.83E-07	< 1.86E-07	< 1.53E-07	< 2.87E-07	< 3.56E-07	< 2.00E-06	< 2.38E-07	< 3.54E-07	< 1.79E-07	< 1.58E-06	< 1.66E-07
Dimethyl Disulfide	624-92-0	< 1.74E-07	< 1.26E-07	< 2.48E-07	< 9.57E-08	2.56E-07	< 1.47E-07	< 1.83E-07	< 1.03E-06	< 1.22E-07	< 1.83E-07	< 9.26E-08	< 8.09E-07	< 8.54E-08
3-Methylthiophene	616-44-4	< 3.71E-07	< 2.62E-07	< 5.15E-07	< 1.99E-07	< 1.63E-07	< 3.06E-07	< 3.80E-07	< 2.14E-06	< 2.54E-07	< 3.91E-07	< 1.97E-07	< 1.68E-06	< 1.77E-07
Tetrahydrothiophene	110-01-0	< 3.36E-07	< 2.30E-07	< 4.51E-07	< 1.74E-07	< 1.43E-07	< 2.68E-07	< 3.32E-07	< 1.87E-06	< 2.22E-07	< 3.54E-07	< 1.79E-07	< 1.47E-06	< 1.55E-07
2-Ethylthiophene	872-55-9	< 4.29E-07	< 2.95E-07	< 5.79E-07	< 2.24E-07	< 1.84E-07	< 3.45E-07	< 4.27E-07	< 2.40E-06	< 2.86E-07	< 4.52E-07	< 2.28E-07	< 1.89E-06	< 2.00E-07
2,5-Dimethylthiophene	638-02-8	< 4.29E-07	< 2.95E-07	< 5.79E-07	< 2.24E-07	< 1.84E-07	< 3.45E-07	< 4.27E-07	< 2.40E-06	< 2.86E-07	< 4.52E-07	< 2.28E-07	< 1.89E-06	< 2.00E-07
Diethyl Disulfide	110-81-6	< 2.32E-07	< 1.64E-07	< 3.22E-07	< 1.24E-07	< 1.02E-07	< 1.91E-07	< 2.37E-07	< 1.34E-06	< 1.59E-07	< 2.44E-07	< 1.23E-07	< 1.05E-06	< 1.11E-07
Total Detected		0.0	0.0	0.0	0.0	7.90E-07	3.41E-06	0.0	4.68E-05	1.81E-06	2.25E-05	6.97E-06	3.41E-05	5.85E-07
Total with non-detects		< 5.53E-06	< 3.90E-06	< 7.65E-06	< 2.95E-06	< 3.04E-06	< 7.65E-06	< 5.64E-06	< 7.64E-05	< 5.32E-06	< 2.81E-05	< 9.84E-06	< 5.74E-05	< 3.11E-06

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TABLE B.1-4

SMALL MIXER SULFUR SUMMARY

Compounds	CAS Number	COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Sulfur (µg/m³)														
Carbonyl Sulfide	463-58-1	877.0	373.0	< 20.0	< 20.0	< 200.0	21.3	115.5	57.3	< 9.8	499.0	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 16.0	< 16.0	< 160.0	< 7.9	< 7.9	< 16.0	< 7.9	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10.0	< 10.0	< 20.0	< 20.0	< 200.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dimethyl Sulfide	75-18-3	< 10.0	< 10.0	< 20.0	< 20.0	< 200.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Carbon Disulfide	75-15-0	216.0	14.9	< 12.0	< 12.0	1965.0	< 6.2	18.3	< 12.0	< 6.2	58.3	23.1	29.5	< 6.2
Isopropyl Mercaptan	75-33-2	< 12.0	< 12.0	< 25.0	< 25.0	< 250.0	< 12.0	< 12.0	< 25.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15.0	< 15.0	< 29.0	< 29.0	< 290.0	< 15.0	< 15.0	< 29.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0
n-Propyl Mercaptan	107-03-9	< 12.0	< 12.0	< 25.0	< 25.0	< 250.0	< 12.0	< 12.0	< 25.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12.0	< 12.0	< 25.0	< 25.0	< 250.0	< 12.0	< 12.0	< 25.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0
Thiophene	110-02-1	< 14.0	< 14.0	< 28.0	< 28.0	< 280.0	< 14.0	< 14.0	< 28.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0
Isobutyl Mercaptan	513-44-0	< 15.0	< 15.0	< 29.0	< 29.0	< 290.0	< 15.0	< 15.0	< 29.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0
Diethyl Sulfide	352-93-2	< 15.0	< 15.0	< 29.0	< 29.0	< 290.0	< 15.0	< 15.0	< 29.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0
n-Butyl Mercaptan	109-79-5	< 15.0	< 15.0	< 29.0	< 29.0	< 290.0	< 15.0	< 15.0	< 29.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 15.0	< 15.0	< 150.0	< 7.7	< 7.7	< 15.0	< 7.7	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16.0	< 16.0	< 32.0	< 32.0	< 320.0	< 16.0	< 16.0	< 32.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0
Tetrahydrothiophene	110-01-0	< 14.0	< 14.0	< 29.0	< 29.0	< 290.0	< 14.0	< 14.0	< 29.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0
2-Ethylthiophene	872-55-9	< 18.0	< 18.0	< 37.0	< 37.0	< 370.0	< 18.0	< 18.0	< 37.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0
2,5-Dimethylthiophene	638-02-8	< 18.0	< 18.0	< 37.0	< 37.0	< 370.0	< 18.0	< 18.0	< 37.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0
Diethyl Disulfide	110-81-6	< 10.0	< 10.0	< 20.0	< 20.0	< 200.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Total Detected		1093.0	387.9	0.0	0.0	1965.0	21.3	133.8	57.3	0.0	557.3	23.1	29.5	0.0
Total with non-detects		< 1314.6	< 609.5	< 477.0	< 477.0	< 6615.0	< 249.1	< 355.4	< 514.3	< 237.6	< 778.9	< 254.5	< 260.9	< 237.6

TRC

TABLE B.1-4

SMALL MIXER SULFUR SUMMARY

Compounds	CAS Number	COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Sulfur (lbs/hr)														
Carbonyl Sulfide	463-58-1	7.88E-05	3.07E-05	< 1.95E-06	< 1.72E-06	< 1.72E-05	1.91E-06	1.08E-05	4.94E-06	< 9.18E-07	4.49E-05	< 9.18E-07	< 9.18E-07	< 9.91E-07
Methyl Mercaptan	74-93-1	< 7.10E-07	< 6.51E-07	< 1.56E-06	< 1.38E-06	< 1.38E-05	< 7.10E-07	< 7.40E-07	< 1.38E-06	< 7.40E-07	< 7.10E-07	< 7.40E-07	< 7.40E-07	< 7.99E-07
Ethyl Mercaptan	75-08-1	< 8.99E-07	< 8.24E-07	< 1.95E-06	< 1.72E-06	< 1.72E-05	< 8.99E-07	< 9.37E-07	< 1.72E-06	< 9.37E-07	< 8.99E-07	< 9.37E-07	< 9.37E-07	< 1.01E-06
Dimethyl Sulfide	75-18-3	< 8.99E-07	< 8.24E-07	< 1.95E-06	< 1.72E-06	< 1.72E-05	< 8.99E-07	< 9.37E-07	< 1.72E-06	< 9.37E-07	< 8.99E-07	< 9.37E-07	< 9.37E-07	< 1.01E-06
Carbon Disulfide	75-15-0	1.94E-05	1.23E-06	< 1.17E-06	< 1.03E-06	1.69E-04	< 5.57E-07	1.71E-06	< 1.03E-06	< 5.81E-07	5.24E-06	2.16E-06	2.76E-06	< 6.27E-07
Isopropyl Mercaptan	75-33-2	< 1.08E-06	< 9.89E-07	< 2.43E-06	< 2.15E-06	< 2.15E-05	< 1.08E-06	< 1.12E-06	< 2.15E-06	< 1.12E-06	< 1.08E-06	< 1.12E-06	< 1.12E-06	< 1.21E-06
tert-Butyl Mercaptan	75-66-1	< 1.35E-06	< 1.24E-06	< 2.82E-06	< 2.50E-06	< 2.50E-05	< 1.35E-06	< 1.40E-06	< 2.50E-06	< 1.40E-06	< 1.35E-06	< 1.40E-06	< 1.40E-06	< 1.52E-06
n-Propyl Mercaptan	107-03-9	< 1.08E-06	< 9.89E-07	< 2.43E-06	< 2.15E-06	< 2.15E-05	< 1.08E-06	< 1.12E-06	< 2.15E-06	< 1.12E-06	< 1.08E-06	< 1.12E-06	< 1.12E-06	< 1.21E-06
Ethyl Methyl Sulfide	624-89-5	< 1.08E-06	< 9.89E-07	< 2.43E-06	< 2.15E-06	< 2.15E-05	< 1.08E-06	< 1.12E-06	< 2.15E-06	< 1.12E-06	< 1.08E-06	< 1.12E-06	< 1.12E-06	< 1.21E-06
Thiophene	110-02-1	< 1.26E-06	< 1.15E-06	< 2.73E-06	< 2.41E-06	< 2.41E-05	< 1.26E-06	< 1.31E-06	< 2.41E-06	< 1.31E-06	< 1.26E-06	< 1.31E-06	< 1.31E-06	< 1.42E-06
Isobutyl Mercaptan	513-44-0	< 1.35E-06	< 1.24E-06	< 2.82E-06	< 2.50E-06	< 2.50E-05	< 1.35E-06	< 1.40E-06	< 2.50E-06	< 1.40E-06	< 1.35E-06	< 1.40E-06	< 1.40E-06	< 1.52E-06
Diethyl Sulfide	352-93-2	< 1.35E-06	< 1.24E-06	< 2.82E-06	< 2.50E-06	< 2.50E-05	< 1.35E-06	< 1.40E-06	< 2.50E-06	< 1.40E-06	< 1.35E-06	< 1.40E-06	< 1.40E-06	< 1.52E-06
n-Butyl Mercaptan	109-79-5	< 1.35E-06	< 1.24E-06	< 2.82E-06	< 2.50E-06	< 2.50E-05	< 1.35E-06	< 1.40E-06	< 2.50E-06	< 1.40E-06	< 1.35E-06	< 1.40E-06	< 1.40E-06	< 1.52E-06
Dimethyl Disulfide	624-92-0	< 6.92E-07	< 6.35E-07	< 1.46E-06	< 1.29E-06	< 1.29E-05	< 6.92E-07	< 7.21E-07	< 1.29E-06	< 7.21E-07	< 6.92E-07	< 7.21E-07	< 7.21E-07	< 7.79E-07
3-Methylthiophene	616-44-4	< 1.44E-06	< 1.32E-06	< 3.12E-06	< 2.76E-06	< 2.76E-05	< 1.44E-06	< 1.50E-06	< 2.76E-06	< 1.50E-06	< 1.44E-06	< 1.50E-06	< 1.50E-06	< 1.62E-06
Tetrahydrothiophene	110-01-0	< 1.26E-06	< 1.15E-06	< 2.82E-06	< 2.50E-06	< 2.50E-05	< 1.26E-06	< 1.31E-06	< 2.50E-06	< 1.31E-06	< 1.26E-06	< 1.31E-06	< 1.31E-06	< 1.42E-06
2-Ethylthiophene	872-55-9	< 1.62E-06	< 1.48E-06	< 3.60E-06	< 3.19E-06	< 3.19E-05	< 1.62E-06	< 1.69E-06	< 3.19E-06	< 1.69E-06	< 1.62E-06	< 1.69E-06	< 1.69E-06	< 1.82E-06
2,5-Dimethylthiophene	638-02-8	< 1.62E-06	< 1.48E-06	< 3.60E-06	< 3.19E-06	< 3.19E-05	< 1.62E-06	< 1.69E-06	< 3.19E-06	< 1.69E-06	< 1.62E-06	< 1.69E-06	< 1.69E-06	< 1.82E-06
Diethyl Disulfide	110-81-6	< 8.99E-07	< 8.24E-07	< 1.95E-06	< 1.72E-06	< 1.72E-05	< 8.99E-07	< 9.37E-07	< 1.72E-06	< 9.37E-07	< 8.99E-07	< 9.37E-07	< 9.37E-07	< 1.01E-06
Total Detected		9.83E-05	3.20E-05	0.0	0.0	1.69E-04	1.91E-06	1.25E-05	4.94E-06	0.0	5.01E-05	2.16E-06	2.76E-06	0.0
Total with non-detects		< 1.18E-04	< 5.02E-05	< 4.65E-05	< 4.11E-05	< 5.70E-04	< 2.24E-05	< 3.33E-05	< 4.43E-05	< 2.23E-05	< 7.00E-05	< 2.38E-05	< 2.44E-05	< 2.40E-05

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TABLE B.1-4

SMALL MIXER SULFUR SUMMARY

Compounds	CAS Number	COMPOUND												
		#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
Sulfur (lbs/lb rubber)														
Carbonyl Sulfide	463-58-1	1.13E-05	2.73E-06	< 1.05E-07	< 2.36E-07	< 2.29E-06	1.69E-07	1.58E-06	3.52E-07	< 1.34E-07	2.88E-06	< 1.12E-07	< 1.02E-07	< 1.18E-07
Methyl Mercaptan	74-93-1	< 1.02E-07	< 5.78E-08	< 8.38E-08	< 1.89E-07	< 1.83E-06	< 6.26E-08	< 1.08E-07	< 9.83E-08	< 1.08E-07	< 4.56E-08	< 9.02E-08	< 8.25E-08	< 9.48E-08
Ethyl Mercaptan	75-08-1	< 1.29E-07	< 7.31E-08	< 1.05E-07	< 2.36E-07	< 2.29E-06	< 7.92E-08	< 1.37E-07	< 1.23E-07	< 1.37E-07	< 5.77E-08	< 1.14E-07	< 1.04E-07	< 1.20E-07
Dimethyl Sulfide	75-18-3	< 1.29E-07	< 7.31E-08	< 1.05E-07	< 2.36E-07	< 2.29E-06	< 7.92E-08	< 1.37E-07	< 1.23E-07	< 1.37E-07	< 5.77E-08	< 1.14E-07	< 1.04E-07	< 1.20E-07
Carbon Disulfide	75-15-0	2.79E-06	1.09E-07	< 6.28E-08	< 1.42E-07	2.25E-05	< 4.91E-08	2.50E-07	< 7.37E-08	< 8.46E-08	3.36E-07	2.64E-07	3.08E-07	< 7.44E-08
Isopropyl Mercaptan	75-33-2	< 1.55E-07	< 8.78E-08	< 1.31E-07	< 2.95E-07	< 2.86E-06	< 9.51E-08	< 1.64E-07	< 1.54E-07	< 1.64E-07	< 6.92E-08	< 1.37E-07	< 1.25E-07	< 1.44E-07
tert-Butyl Mercaptan	75-66-1	< 1.93E-07	< 1.10E-07	< 1.52E-07	< 3.43E-07	< 3.31E-06	< 1.19E-07	< 2.05E-07	< 1.78E-07	< 2.05E-07	< 8.65E-08	< 1.71E-07	< 1.57E-07	< 1.80E-07
n-Propyl Mercaptan	107-03-9	< 1.55E-07	< 8.78E-08	< 1.31E-07	< 2.95E-07	< 2.86E-06	< 9.51E-08	< 1.64E-07	< 1.54E-07	< 1.64E-07	< 6.92E-08	< 1.37E-07	< 1.25E-07	< 1.44E-07
Ethyl Methyl Sulfide	624-89-5	< 1.55E-07	< 8.78E-08	< 1.31E-07	< 2.95E-07	< 2.86E-06	< 9.51E-08	< 1.64E-07	< 1.54E-07	< 1.64E-07	< 6.92E-08	< 1.37E-07	< 1.25E-07	< 1.44E-07
Thiophene	110-02-1	< 1.81E-07	< 1.02E-07	< 1.47E-07	< 3.31E-07	< 3.20E-06	< 1.11E-07	< 1.91E-07	< 1.72E-07	< 1.91E-07	< 8.07E-08	< 1.60E-07	< 1.46E-07	< 1.68E-07
Isobutyl Mercaptan	513-44-0	< 1.93E-07	< 1.10E-07	< 1.52E-07	< 3.43E-07	< 3.31E-06	< 1.19E-07	< 2.05E-07	< 1.78E-07	< 2.05E-07	< 8.65E-08	< 1.71E-07	< 1.57E-07	< 1.80E-07
Diethyl Sulfide	352-93-2	< 1.93E-07	< 1.10E-07	< 1.52E-07	< 3.43E-07	< 3.31E-06	< 1.19E-07	< 2.05E-07	< 1.78E-07	< 2.05E-07	< 8.65E-08	< 1.71E-07	< 1.57E-07	< 1.80E-07
n-Butyl Mercaptan	109-79-5	< 1.93E-07	< 1.10E-07	< 1.52E-07	< 3.43E-07	< 3.31E-06	< 1.19E-07	< 2.05E-07	< 1.78E-07	< 2.05E-07	< 8.65E-08	< 1.71E-07	< 1.57E-07	< 1.80E-07
Dimethyl Disulfide	624-92-0	< 9.93E-08	< 5.63E-08	< 7.85E-08	< 1.77E-07	< 1.71E-06	< 6.10E-08	< 1.05E-07	< 9.21E-08	< 1.05E-07	< 4.44E-08	< 8.79E-08	< 8.04E-08	< 9.24E-08
3-Methylthiophene	616-44-4	< 2.06E-07	< 1.17E-07	< 1.68E-07	< 3.78E-07	< 3.66E-06	< 1.27E-07	< 2.19E-07	< 1.97E-07	< 2.18E-07	< 9.23E-08	< 1.83E-07	< 1.67E-07	< 1.92E-07
Tetrahydrothiophene	110-01-0	< 1.81E-07	< 1.02E-07	< 1.52E-07	< 3.43E-07	< 3.31E-06	< 1.11E-07	< 1.91E-07	< 1.78E-07	< 1.91E-07	< 8.07E-08	< 1.60E-07	< 1.46E-07	< 1.68E-07
2-Ethylthiophene	872-55-9	< 2.32E-07	< 1.32E-07	< 1.94E-07	< 4.37E-07	< 4.23E-06	< 1.43E-07	< 2.46E-07	< 2.27E-07	< 2.46E-07	< 1.04E-07	< 2.06E-07	< 1.88E-07	< 2.16E-07
2,5-Dimethylthiophene	638-02-8	< 2.32E-07	< 1.32E-07	< 1.94E-07	< 4.37E-07	< 4.23E-06	< 1.43E-07	< 2.46E-07	< 2.27E-07	< 2.46E-07	< 1.04E-07	< 2.06E-07	< 1.88E-07	< 2.16E-07
Diethyl Disulfide	110-81-6	< 1.29E-07	< 7.31E-08	< 1.05E-07	< 2.36E-07	< 2.29E-06	< 7.92E-08	< 1.37E-07	< 1.23E-07	< 1.37E-07	< 5.77E-08	< 1.14E-07	< 1.04E-07	< 1.20E-07
Total Detected		1.41E-05	2.84E-06	0.0	0.0	2.25E-05	1.69E-07	1.83E-06	3.52E-07	0.0	3.21E-06	2.64E-07	3.08E-07	0.0
Total with non-detects		< 1.70E-05	< 4.46E-06	< 2.50E-06	< 5.64E-06	< 7.56E-05	< 1.97E-06	< 4.86E-06	< 3.16E-06	< 3.24E-06	< 4.49E-06	< 2.91E-06	< 2.72E-06	< 2.85E-06

TRC

TABLE B.1-5
SMALL MIXER 2 METALS SUMMARY

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
METALS (µg) *													
Cr	5.50	1.25	4.50	4.50	5.50	0.50	12.50	0.75	0.25	3.25	ND	1.50	1.25
Cu	3.25	1.25	5.75	2.75	3.25	ND	4.75	1.50	ND	4.00	1.00	ND	1.00
Mg	32.00	212.75	60.95	41.75	109.25	226.75	39.25	123.75	14.95	4668.75	1898.75	2888.75	49.25
Ni	8.50	< 5.00	7.25	7.75	5.00	< 5.00	< 5.00	5.75	< 5.00	5.00	< 5.00	5.00	6.50
Zn	2021.75	7391.75	9791.75	4571.75	6541.75	739.75	3541.75	1261.75	376.75	383.75	1771.75	1411.75	1471.75
Cd	1.62	0.43	0.53	0.48	1.02	0.26	0.40	0.15	0.18	0.85	0.27	0.17	0.11
Pb	1.10	0.06	0.95	0.65	4.10	ND	1.05	ND	ND	1.70	0.12	ND	1.35
Total Detected	2073.71	7607.49	9871.68	4629.63	6669.87	967.26	3599.69	1393.65	392.13	5067.30	3671.89	4307.17	1531.21
Total with non-detects	2073.71	< 7612.49	9871.68	4629.63	6669.87	< 972.26	< 3604.69	1393.65	< 397.13	5067.30	< 3676.89	4307.17	1531.21
METALS (µg/m3)													
Cr	2.75	0.43	1.84	1.91	2.67	0.22	5.17	0.33	0.10	1.28	ND	0.61	0.59
Cu	1.62	0.43	2.35	1.17	1.58	ND	1.97	0.66	ND	1.58	0.76	ND	0.47
Mg	15.97	72.51	24.89	17.73	52.97	100.82	16.24	54.41	5.75	1838.77	1436.26	1180.93	23.38
Ni	4.24	< 1.70	2.96	3.29	2.42	< 2.22	< 2.07	2.53	< 1.92	1.97	< 3.78	2.04	3.09
Zn	1009.22	2519.24	3998.13	1940.99	3171.99	328.91	1465.26	554.79	144.85	151.14	1340.20	577.13	698.74
Cd	0.81	0.15	0.22	0.21	0.50	0.11	0.16	0.07	0.07	0.33	0.21	0.07	0.05
Pb	0.55	0.02	0.39	0.28	1.99	ND	0.43	ND	ND	0.67	0.09	ND	0.64
Total Detected	1035.16	2592.76	4030.76	1965.56	3234.12	430.07	1489.24	612.79	150.77	1995.74	2777.51	1760.78	726.97
Total with non-detects	1035.16	< 2594.47	4030.76	1965.56	3234.12	< 432.29	< 1491.31	612.79	< 152.69	1995.74	< 2781.30	1760.78	726.97
METALS (lb/hr)													
Cr	2.26E-07	4.15E-08	1.72E-07	1.65E-07	2.20E-07	1.92E-08	4.46E-07	2.84E-08	8.28E-09	1.10E-07	ND	5.28E-08	5.11E-08
Cu	1.34E-07	4.15E-08	2.20E-07	1.01E-07	1.30E-07	ND	1.69E-07	5.68E-08	ND	1.36E-07	6.52E-08	ND	4.09E-08
Mg	1.32E-06	7.06E-06	2.33E-06	1.53E-06	4.37E-06	8.69E-06	1.40E-06	4.69E-06	4.95E-07	1.58E-04	1.24E-04	1.02E-04	2.01E-06
Ni	3.50E-07	< 1.66E-07	2.77E-07	2.83E-07	2.00E-07	< 1.92E-07	< 1.78E-07	2.18E-07	< 1.66E-07	1.70E-07	< 3.26E-07	1.76E-07	2.66E-07
Zn	8.32E-05	2.45E-04	3.74E-04	1.67E-04	2.61E-04	2.83E-05	1.26E-04	4.78E-05	1.25E-05	1.30E-05	1.15E-04	4.97E-05	6.02E-05
Cd	6.65E-08	1.42E-08	2.04E-08	1.77E-08	4.08E-08	9.80E-09	1.41E-08	5.86E-09	6.09E-09	2.88E-08	1.77E-08	5.98E-09	4.61E-09
Pb	4.52E-08	1.93E-09	3.63E-08	2.37E-08	1.64E-07	ND	3.74E-08	ND	ND	5.76E-08	7.69E-09	ND	5.51E-08
Total Detected	8.53E-05	2.53E-04	3.77E-04	1.69E-04	2.67E-04	3.71E-05	1.28E-04	5.28E-05	1.30E-05	1.72E-04	2.39E-04	1.52E-04	6.26E-05
Total with non-detects	8.53E-05	< 2.53E-04	3.77E-04	1.69E-04	2.67E-04	< 3.72E-05	< 1.28E-04	5.28E-05	< 1.32E-05	1.72E-04	< 2.40E-04	1.52E-04	6.26E-05
METALS (lb/lb rubber)													
Cr	3.18E-08	6.99E-09	5.91E-08	2.38E-08	2.72E-08	4.26E-09	1.23E-07	4.41E-09	1.53E-09	1.56E-08	ND	6.44E-09	6.58E-09
Cu	1.88E-08	6.99E-09	7.56E-08	1.45E-08	1.61E-08	ND	4.66E-08	8.81E-09	ND	1.92E-08	4.67E-09	ND	5.26E-09
Mg	1.85E-07	1.19E-06	8.01E-07	2.20E-07	5.40E-07	1.93E-06	3.85E-07	7.27E-07	9.12E-08	2.24E-05	8.86E-06	1.24E-05	2.59E-07
Ni	4.92E-08	< 2.79E-08	9.53E-08	4.09E-08	2.47E-08	< 4.26E-08	< 4.91E-08	3.38E-08	< 3.05E-08	2.40E-08	< 2.33E-08	2.15E-08	3.42E-08
Zn	1.17E-05	4.13E-05	1.29E-04	2.41E-05	3.24E-05	6.30E-06	3.48E-05	7.41E-06	2.30E-06	1.84E-06	8.27E-06	6.06E-06	7.75E-06
Cd	9.35E-09	2.40E-09	7.01E-09	2.55E-09	5.05E-09	2.18E-09	3.89E-09	9.09E-10	1.12E-09	4.08E-09	1.27E-09	7.29E-10	5.94E-10
Pb	6.35E-09	3.24E-10	1.25E-08	3.42E-09	2.03E-08	ND	1.03E-08	ND	ND	8.16E-09	5.51E-10	ND	7.10E-09
Total Detected	1.20E-05	4.25E-05	1.30E-04	2.44E-05	3.30E-05	8.23E-06	3.53E-05	8.19E-06	2.39E-06	2.44E-05	1.71E-05	1.85E-05	8.06E-06
Total with non-detects	1.20E-05	< 4.25E-05	1.30E-04	2.44E-05	3.30E-05	< 8.28E-06	< 3.54E-05	8.19E-06	< 2.42E-06	2.44E-05	< 1.72E-05	1.85E-05	8.06E-06

* Blank Corrected. ND = The blank correction result was zero or a negative value

TRC

TABLE B.1-5
SMALL MIXER 2 METALS SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
METALS (µg)													
Cr	0.75	0.50	0.25	7.20	< 2.50	< 2.50	2.00	0.25	0.75	5.25	< 2.50	4.75	5.00
Cu	4.25	5.00	ND	2.00	2.50	51.50	2.00	1.50	5.75	5.00	3.50	3.50	3.75
Mg	67.95	1058.75	3388.75	12.75	17.25	124.75	26.55	2108.75	1098.75	910.75	25.20	13.00	7.50
Ni	< 5.00	5.50	< 5.00	5.50	6.00	6.25	< 5.00	< 5.00	< 5.00	7.25	< 5.00	< 5.00	< 5.00
Zn	1871.75	88.75	37.75	261.75	2041.75	60.25	214.75	41.95	13191.75	163.75	63.80	20.50	15.50
Cd	0.63	0.42	0.18	0.45	0.23	0.14	0.29	0.15	0.55	0.26	1.00	0.62	0.54
Pb	1.00	0.06	ND	ND	ND	0.44	ND	ND	0.98	0.07	2.24	1.42	1.32
Total Detected	1946.32	1158.98	3426.93	289.65	2067.73	243.33	245.59	2152.60	14298.53	1092.33	95.737	43.787	33.612
Total with non-detects	< 1951.32	1158.98	< 3431.93	289.65	< 2070.23	< 245.83	< 250.59	< 2157.60	< 14303.53	1092.33	< 103.24	< 48.79	< 38.61
METALS (µg/m3)													
Cr	0.33	0.27	0.16	3.55	< 1.42	< 1.34	0.69	0.18	0.28	3.81	< 1.40	2.95	2.35
Cu	1.86	2.68	ND	0.99	1.42	27.57	0.69	1.05	2.14	3.63	1.96	2.17	1.76
Mg	29.70	567.41	2145.55	6.29	9.80	66.79	9.10	1477.50	408.83	661.26	14.08	8.06	3.53
Ni	< 2.19	2.95	< 3.17	2.71	3.41	3.35	< 1.71	< 3.50	< 1.86	5.26	< 2.79	< 3.10	< 2.35
Zn	818.09	47.56	23.90	129.20	1159.47	32.26	73.59	29.39	4908.49	118.89	35.66	12.72	7.29
Cd	0.27	0.23	0.12	0.22	0.13	0.08	0.10	0.10	0.20	0.19	0.56	0.38	0.26
Pb	0.44	0.03	ND	ND	ND	0.23	ND	ND	0.36	0.05	1.25	0.88	0.62
Total Detected	850.69	621.12	2169.72	142.97	1174.22	130.27	84.15	1508.22	5320.30	793.10	53.5074	27.1636	15.8173
Total with non-detects	< 852.87	621.12	< 2172.89	142.97	< 1175.64	< 131.61	< 85.87	< 1511.72	< 5322.16	793.10	< 57.70	< 30.27	< 18.17
METALS (lb/hr)													
Cr	2.82E-08	2.21E-08	1.54E-08	3.06E-07	< 1.22E-07	< 1.20E-07	6.42E-08	1.51E-08	2.61E-08	3.28E-07	< 1.31E-07	2.76E-07	2.38E-07
Cu	1.60E-07	2.21E-07	ND	8.51E-08	1.22E-07	2.48E-06	6.42E-08	9.06E-08	2.00E-07	3.13E-07	1.83E-07	2.03E-07	1.78E-07
Mg	2.56E-06	4.68E-05	2.09E-04	5.42E-07	8.44E-07	6.00E-06	8.52E-07	1.27E-04	3.83E-05	5.70E-05	1.32E-06	7.55E-07	3.57E-07
Ni	< 1.88E-07	2.43E-07	< 3.08E-07	2.34E-07	2.94E-07	3.01E-07	< 1.60E-07	< 3.02E-07	< 1.74E-07	4.54E-07	< 2.62E-07	< 2.90E-07	< 2.38E-07
Zn	7.05E-05	3.92E-06	2.33E-06	1.11E-05	9.99E-05	2.90E-06	6.89E-06	2.53E-06	4.60E-04	1.02E-05	3.34E-06	1.19E-06	7.38E-07
Cd	2.36E-08	1.87E-08	1.13E-08	1.93E-08	1.10E-08	6.87E-09	9.27E-09	8.80E-09	1.91E-08	1.62E-08	5.22E-08	3.58E-08	2.58E-08
Pb	3.76E-08	2.56E-09	ND	ND	ND	2.11E-08	ND	ND	3.41E-08	4.25E-09	1.17E-07	8.25E-08	6.28E-08
Total Detected	7.33E-05	5.12E-05	2.11E-04	1.23E-05	1.01E-04	1.17E-05	7.88E-06	1.30E-04	4.98E-04	6.83E-05	5.01E-06	2.54E-06	1.60E-06
Total with non-detects	< 7.35E-05	5.12E-05	< 2.12E-04	1.23E-05	< 1.01E-04	< 1.18E-05	< 8.04E-06	< 1.30E-04	< 4.98E-04	6.83E-05	< 5.40E-06	< 2.83E-06	< 1.84E-06
METALS (lb/lb rubber)													
Cr	4.05E-09	1.96E-09	8.29E-10	4.20E-08	< 1.62E-08	< 1.06E-08	9.37E-09	1.08E-09	3.81E-09	2.11E-08	< 1.60E-08	3.08E-08	2.82E-08
Cu	2.30E-08	1.96E-08	ND	1.17E-08	1.62E-08	2.18E-07	9.37E-09	6.45E-09	2.92E-08	2.01E-08	2.23E-08	2.27E-08	2.12E-08
Mg	3.67E-07	4.15E-06	1.12E-05	7.44E-08	1.12E-07	5.29E-07	1.24E-07	9.07E-06	5.58E-06	3.65E-06	1.61E-07	8.42E-08	4.23E-08
Ni	< 2.70E-08	2.16E-08	< 1.66E-08	3.21E-08	3.89E-08	2.65E-08	< 2.34E-08	< 2.15E-08	< 2.54E-08	2.91E-08	< 3.19E-08	< 3.24E-08	< 2.82E-08
Zn	1.01E-05	3.48E-07	1.25E-07	1.53E-06	1.32E-05	2.56E-07	1.01E-06	1.80E-07	6.70E-05	6.57E-07	4.07E-07	1.33E-07	8.75E-08
Cd	3.38E-09	1.66E-09	6.09E-10	2.65E-09	1.47E-09	6.06E-10	1.35E-09	6.27E-10	2.79E-09	1.04E-09	6.36E-09	4.00E-09	3.06E-09
Pb	5.39E-09	2.27E-10	ND	ND	ND	1.86E-09	ND	ND	4.97E-09	2.73E-10	1.43E-08	9.20E-09	7.45E-09
Total Detected	1.05E-05	4.54E-06	1.14E-05	1.69E-06	1.34E-05	1.03E-06	1.15E-06	9.26E-06	7.26E-05	4.38E-06	6.11E-07	2.84E-07	1.90E-07
Total with non-detects	< 1.05E-05	4.54E-06	< 1.14E-05	1.69E-06	< 1.34E-05	< 1.04E-06	< 1.17E-06	< 9.28E-06	< 7.27E-05	4.38E-06	< 6.59E-07	< 3.16E-07	< 2.18E-07

TRC

TABLE B.1-6

SMALL MIXER 2 POM SUMMARY

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
POM (mg)*	0.0	4.7	6.0	8.5	5.7	4.5	0.2	1.3	1.1	0.0	1.2	1.3	2.0
Volume of Gas Collected (dscf)	66.635	92.246	75.959	82.170	63.551	74.541	84.796	76.613	86.769	83.444	44.636	81.390	69.145
POM Concentration (mg/m³)	0.0	1.799	2.789	3.653	3.167	2.132	0.083	0.599	0.448	0.0	0.949	0.564	1.021
Flowrate (dscfm)	22	26	25	23	22	23	23	23	23	23	23	23	23
POM (lb/hr)	0.0	1.75E-04	2.61E-04	3.15E-04	2.61E-04	1.84E-04	7.18E-06	5.16E-05	3.86E-05	0.0	8.18E-05	4.86E-05	8.80E-05
Run Time (min)	115.0	133.0	114.3	120.0	111.0	111.7	120.3	113.1	129.3	125.0	66.6	122.0	102.7
Total Rubber Processed (lbs/hr)	7.11	5.94	2.91	6.93	8.08	4.50	3.63	6.45	5.43	7.06	13.96	8.20	7.77
POM (lb/lb rubber)	0.0	2.95E-05	8.98E-05	4.54E-05	3.23E-05	4.08E-05	1.98E-06	8.00E-06	7.10E-06	0.0	5.86E-06	5.93E-06	1.13E-05

* Blank Corrected.

TRC

TABLE B.1-6

SMALL MIXER 2 POM SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
POM (mg)*	9.7	5.2	0.7	1.1	0.5	0.8	5.6	6.3	6.4	2.6	3.1	0.5	0.3
Volume of Gas Collected (dscf)	75.826	64.015	47.584	69.252	60.545	61.162	90.070	47.062	86.436	45.085	62.591	55.929	75.322
POM Concentration (mg/m³)	4.517	2.868	0.519	0.561	0.292	0.462	2.195	4.727	2.615	2.036	1.749	0.316	0.141
Flowrate (dscfm)	24	22	26	23	23	24	25	23	25	24	25	25	27
POM (lb/hr)	4.06E-04	2.36E-04	5.06E-05	4.83E-05	2.51E-05	4.15E-05	2.06E-04	4.07E-04	2.45E-04	1.83E-04	1.64E-04	2.96E-05	1.42E-05
Run Time (min)	110.4	97.9	70.4	102.4	89.8	91.0	13.2	69.9	125.2	67.2	85.0	75.0	95.0
Total Rubber Processed (lbs/hr)	6.97	11.27	18.60	7.29	7.54	11.35	6.85	14.03	6.86	15.59	8.20	8.97	8.43
POM (lb/lb rubber)	5.83E-05	2.10E-05	2.72E-06	6.63E-06	3.33E-06	3.66E-06	3.00E-05	2.90E-05	3.57E-05	1.17E-05	2.00E-05	3.30E-06	1.69E-06

* Blank Corrected.

TRC

TABLE B.1-7

SMALL MIXER 2 PARTICULATE MATTER SUMMARY

	COMPOUND												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
PM (mg)	30.3	72.9	68.4	57.7	188.4	46.2	57.9	37.1	7.9	73.3	17.0	41.7	45.8
Volume of Gas Collected (dscf)	70.737	103.606	86.479	83.170	72.823	79.417	85.351	80.307	91.841	89.656	46.681	86.376	74.375
PM Concentration (grain/dscf)	0.0066	0.0108	0.0122	0.0107	0.0398	0.0090	0.0104	0.0071	0.0013	0.0126	0.0056	0.0074	0.0095
PM Concentration (mg/m³)	15.125	24.846	27.929	24.497	91.352	20.542	23.954	16.313	3.037	28.869	12.859	17.047	21.744
Flowrate (dscfm)	22	26	25	23	22	23	23	23	23	23	23	23	23
PM Emission Rate (lb/hr)	1.25E-03	2.39E-03	2.61E-03	2.08E-03	7.47E-03	1.80E-03	2.05E-03	1.43E-03	2.67E-04	2.53E-03	1.09E-03	1.50E-03	1.91E-03
Run Time (min)	115.0	133.0	114.8	120.0	110.0	111.7	121.5	113.6	129.8	125.3	67.0	122.0	103.2
Total Rubber Processed (lbs/hr)	7.11	5.94	2.91	6.93	8.08	4.50	3.63	6.45	5.43	7.06	13.96	8.20	7.77
PM (lb/lb rubber)	1.75E-04	4.02E-04	8.99E-04	3.00E-04	9.25E-04	4.00E-04	5.66E-04	2.22E-04	4.92E-05	3.58E-04	7.82E-05	1.83E-04	2.46E-04

TRC

TABLE B.1-7

SMALL MIXER 2 PARTICULATE MATTER SUMMARY

	COMPOUND												
	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26
PM (mg)	23.9	36.4	96.7	15.5	30.0	16.5	166.8	17.1	88.9	82.8	2.4	3.1	1.3
Volume of Gas Collected (dscf)	80.789	65.888	55.771	71.537	62.180	65.955	103.048	50.397	94.899	48.633	63.179	56.920	75.036
PM Concentration (grain/dscf)	0.0046	0.0085	0.0267	0.0033	0.0074	0.0039	0.0249	0.0052	0.0144	0.0262	0.0006	0.0008	0.0003
PM Concentration (mg/m³)	10.446	19.507	61.224	7.651	17.036	8.834	57.156	11.981	33.079	60.118	1.341	1.923	0.612
Flowrate (dscfm)	23	22	26	23	23	24	25	23	25	23	25	25	27
PM Emission Rate (lb/hr)	9.04E-04	1.61E-03	5.89E-03	6.53E-04	1.44E-03	7.82E-04	5.37E-03	1.05E-03	3.08E-03	5.29E-03	1.28E-04	1.83E-04	6.21E-05
Run Time (min)	110.7	98.3	71.0	102.7	90.3	91.7	135.8	70.2	125.8	67.6	85.0	77.0	95.0
Total Rubber Processed (lbs/hr)	6.97	11.27	18.60	7.29	7.54	11.35	6.85	14.03	6.86	15.59	8.20	8.97	8.43
PM (lb/lb rubber)	1.30E-04	1.42E-04	3.17E-04	8.96E-05	1.92E-04	6.89E-05	7.84E-04	7.50E-05	4.49E-04	3.39E-04	1.56E-05	2.04E-05	7.37E-06

TRC

Section B.2

Small Mixer No. 1 and Large Mixer No. 1

TRC

Section B.2

Small Mixer No. 1 and Large Mixer No. 1

Table Number	Title	No. of Pages
B.2-1	Small Mixer 1/Large Mixer 1 Summary Table	1
B.2-2	Small Mixer 1/Large Mixer 1 Speciated Semivolatiles Summary	6
B.2-3	Small Mixer 1/Large Mixer 1 Speciated Volatiles Summary	12
B.2-4	Small Mixer 1/Large Mixer 1 Sulfur Summary	1
B.2-5	Small Mixer 1/Large Mixer 1 Metals Summary	1
B.2-6	Small Mixer 1/Large Mixer 1 POM Summary	1

no PM Summary?
but there's PM in table B.2-1

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TABLE B.2-1
SMALL MIXER 1/LARGE MIXER 1 SUMMARY

	TREAD		EPDM		SDW		SBR	
	Large	Small	Large	Small	Large	Small	Large	Small
First Pass (lbs/drop)*	126	NA	140.8	2.65	126.2	2.90	136.7	3.13
First Pass Batch Temp (°F)	335	NA	329	330	335	335	346***	345
Second Pass(lbs/drop)	131.3	NA	139.7	2.65	126.37	2.90	137.5	3.11
Second Pass Batch Temp (°F)	335	NA	240	220	220	220	220	220
Third Pass(lbs/drop)	131.2	NA	–	–	–	–	–	–
Third Pass Batch Temp (°F)	220	NA	–	–	–	–	–	–
Total Drops/pass	5	NA	5	7	4	8	4	10
Total Run Time (min)	131	NA	122	127	70	146	65	170
# Passes per run	3	NA	2	2	2	2	2	2
Total Drops per run	15	NA	10	14	8	16	8	20
Total Rubber (lbs/hr)	300.46	NA	343.52	8.75	433.27	9.54	507.69	10.99
Total Hydrocarbons (ppm/run)	2.72	NA	4.62	2.42	2.02	1.68	5.75	4.41
Total Hydrocarbons (lbs/hr)	1.46E-02	NA	2.65E-02	3.96E-04	1.32E-02	2.75E-04	3.25E-02	7.24E-04
Total Hydrocarbons (lbs/lb rubber)	4.86E-05	NA	7.72E-05	4.52E-05	3.05E-05	2.88E-05	6.41E-05	6.59E-05
THC Standard Deviation (lbs/lb rubber)	1.69E-05	NA	1.91E-05	1.98E-05	2.96E-05	8.39E-06	2.91E-05	2.38E-05
Total Speciated Semi Vol (µg/m³))	628.90	NA	509.00	282.89	315.80	168.05	537.17	229.90
Total Speciated Semi Vol (lbs/hr)	1.60E-03	NA	1.44E-03	2.51E-05	1.10E-03	1.49E-05	1.61E-03	2.05E-05
Total Speciated Semi Vol (lbs/lb rubber) Detected	5.33E-06	NA	4.19E-06	2.87E-06	5.06E-06	1.57E-06	3.17E-06	1.87E-06
Total Speciated Semi Vol (lbs/lb rubber) with non-detects	< 3.33E-04	NA	< 2.44E-04	< 1.68E-04	< 3.27E-04	< 9.42E-05	< 1.87E-04	< 1.09E-04
Total Speciated Volatiles (µg/m³)	6419.8	NA	15861.6	13421.8	4010.7	3592.4	21648.7	31832.2
Total Speciated Volatiles (lbs/hr)	1.88E-02	NA	4.96E-02	1.20E-03	1.45E-02	3.20E-04	6.67E-02	2.85E-03
Total Speciated Volatiles (lbs/lb rubber) Detected	6.26E-05	NA	1.44E-04	1.37E-04	6.67E-05	3.36E-05	1.31E-04	2.59E-04
Total Speciated Volatiles (lbs/lb rubber) with non-detects	< 6.69E-05	NA	< 1..48E-04	< 1.46E-04	< 1.10E-04	< 3.79E-05	< 1.34E-04	< 2.66E-04
Total Sulfur(µg/m³)	71.5	NA	146.4	100.0	ND	ND	148.2	85.7
Total Sulfur(lbs/hr)	2.09E-04	NA	4.58E-04	4.46E-06	ND	ND	4.57E-04	7.67E-05
Total Sulfur(lbs/lb rubber) Detected	6.97E-07	NA	1.33E-06	5.10E-07	ND	ND	9.00E-07	6.98E-06
Total Sulfur(lbs/lb rubber) with non-detects	< 2.86E-06	NA	< 3.35E-06	< 2.94E-06	< 8.07E-06	< 2.27E-06	< 2.25E-06	< 2.50E-06
Total Metals (µg/m³)	557.44	NA	285.70	1194.37	1922.73	622.13	20573.36	1667.92
Total Metals (lbs/hr)	1.84E-03	NA	9.58E-04	1.06E-04	7.15E-03	5.52E-05	6.54E-02	1.49E-04
Total Metals (lbs/lb rubber) Detected	6.14E-06	NA	2.79E-06	1.21E-05	3.30E-05	5.79E-06	1.29E-04	1.35E-05
POM (mg/m³)	1.25	NA	2.15	0.82	3.1	2.15	1.44	0.13
POM (lb/hr)	3.86E-03	NA	6.90E-03	7.41E-05	1.09E-02	1.93E-04	4.43E-03	1.16E-05
POM (lb/lb rubber) Detected	1.29E-05	NA	2.01E-05	8.47E-06	5.02E-05	2.03E-05	8.73E-06	1.06E-06
PM (mg/m³)	48.74	NA	13.44	20.46	58.7	14.84	68.32	21.38
PM (lb/hr)	1.61E-01	NA	4.50E-02	1.81E-03	2.16E-01	1.31E-03	2.17E-01	1.90E-03
PM (lb/lb rubber) Detected	5.36E-04	NA	1.31E-04	2.07E-04	4.99E-04	1.37E-04	4.27E-04	1.73E-04

* - There were two batches with weight of 1446.7 grams per batch for EPDM small mixer

** - MM5 Train

*** - One with temp. 335 °F ND - None Detected

TRC

TABLE B.2-2
SMALL MIXER 1/LARGE MIXER 1 SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Number	TREAD Large	TREAD Small	EPDM Large	EPDM Small	SDW Large-A*	SDW Large-B*	SDW Small	SBR Large	SBR Small
Semi Vol (µg/m³)										
Pyridine	110-86-1	< 0.51	NA	< 0.44	< 0.45	< 1.11	< 1.27	< 0.39	< 0.92	< 0.37
Phenol	108-95-2	7.44	NA	2.15	2.61	2.26	2.86	3.38	4.79	12.59
bis(2-Chloroethyl)ether	111-44-4	< 0.40	NA	< 0.35	< 0.36	< 0.88	< 1.01	< 0.31	14.67	< 0.29
2-Chlorophenol	95-57-8	< 0.30	NA	< 0.26	< 0.27	< 0.66	< 0.75	< 0.23	< 0.54	< 0.22
1,3-Dichlorobenzene	541-73-1	< 0.30	NA	< 0.26	< 0.26	< 0.65	< 0.73	< 0.23	< 0.54	< 0.22
1,4-Dichlorobenzene	106-46-7	< 0.28	NA	< 0.24	0.00	< 0.63	0.00	< 0.22	< 0.51	0.00
1,2-Dichlorobenzene	95-50-1	< 0.31	NA	< 0.27	< 0.28	< 0.68	< 0.77	< 0.24	< 0.56	< 0.23
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.41	NA	< 0.36	< 0.37	< 0.90	< 1.03	< 0.32	< 0.75	< 0.30
Benzyl alcohol	100-51-6	< 0.53	NA	0.29	< 0.48	0.43	0.39	0.00	< 0.96	0.47
2-Methylphenol	95-48-7	< 0.40	NA	< 0.34	< 0.35	0.00	< 1.00	0.00	< 0.72	0.21
3/4-Methylphenol	108-39-4/106-44	< 0.38	NA	< 0.33	< 0.34	< 0.84	< 0.95	0.16	< 0.69	4.44
N-Nitroso-di-n-propylamine	621-64-7	< 0.65	NA	< 0.56	< 0.57	< 1.42	< 1.61	< 0.49	< 1.17	< 0.47
Hexachloroethane	67-72-1	< 0.65	NA	< 0.56	< 0.58	< 1.43	< 1.62	< 0.50	< 1.17	< 0.48
Nitrobenzene	98-95-3	15.50	NA	< 0.37	< 0.38	< 0.90	< 1.07	< 0.32	< 0.72	< 0.31
Isophorone	78-59-1	0.76	NA	< 0.18	< 0.18	20.11	21.48	18.89	30.25	29.24
2-Nitrophenol	88-75-5	< 0.52	NA	< 0.45	< 0.45	< 1.09	< 1.29	< 0.39	< 0.88	< 0.37
2,4-Dimethylphenol	105-67-9	< 0.47	NA	< 0.40	< 0.41	4.06	< 1.17	5.10	< 0.80	7.08
bis(2-Chloroethoxy)methane	111-91-1	< 0.35	NA	< 0.30	< 0.31	< 0.74	< 0.87	< 0.26	< 0.59	< 0.25
Benzoic acid	65-85-0	7.69	NA	8.71	0.00	0.00	77.66	0.00	< 1.19	< 0.50
2,4-Dichlorophenol	120-83-2	< 0.43	NA	< 0.37	< 0.38	< 0.92	< 1.07	< 0.33	< 0.73	< 0.31
1,2,4-Trichlorobenzene	120-82-1	< 0.39	NA	< 0.34	< 0.35	< 0.84	< 0.98	< 0.30	< 0.66	< 0.28
Naphthalene	91-20-3	27.80	NA	2.98	4.77	6.22	8.31	8.48	18.19	22.84
4-Chloroaniline	106-47-8	< 0.28	NA	< 0.24	< 0.25	< 0.59	< 0.70	0.96	< 0.48	< 0.20
Hexachlorobutadiene	87-68-3	< 0.66	NA	< 0.57	< 0.58	< 1.40	< 1.65	< 0.50	< 1.12	< 0.48
4-Chloro-3-methylphenol	59-50-7	< 0.48	NA	< 0.41	< 0.42	< 1.01	< 1.19	< 0.36	< 0.81	< 0.34
2-Methylnaphthalene	91-57-6	20.94	NA	0.47	0.29	1.07	1.17	1.30	9.51	9.97
Hexachlorocyclopentadiene	77-47-4	< 0.61	NA	< 0.54	< 0.56	< 1.33	< 1.58	< 0.49	< 1.14	< 0.45
2,4,6-Trichlorophenol	88-06-2	< 0.59	NA	< 0.53	< 0.54	< 1.30	< 1.53	< 0.47	< 1.11	< 0.44
2,4,5-Trichlorophenol	95-95-4	< 0.57	NA	< 0.51	< 0.52	< 1.25	< 1.47	< 0.46	< 1.06	< 0.42
2-Chloronaphthalene	91-58-7	< 0.20	NA	< 0.17	< 0.18	< 0.43	< 0.51	< 0.16	< 0.37	< 0.15
2-Nitroaniline	88-74-4	< 0.82	NA	< 0.72	< 0.75	< 1.79	< 2.10	< 0.65	< 1.52	< 0.60
Dimethylphthalate	131-11-3	< 0.18	NA	0.10	0.00	0.70	0.09	< 0.14	0.58	< 0.13
2,6-Dinitrotoluene	606-20-2	< 0.70	NA	< 0.62	< 0.64	< 1.52	< 1.79	< 0.55	< 1.30	< 0.52
2,4-Dinitrotoluene	121-14-2	< 0.54	NA	< 0.48	< 0.49	< 1.17	< 1.39	< 0.43	< 1.00	< 0.40
Acenaphthylene	208-96-8	4.48	NA	0.31	1.02	1.90	2.23	2.59	4.71	6.85
3-Nitroaniline	99-09-2	< 0.61	NA	< 0.54	< 0.55	< 1.32	< 1.55	< 0.48	< 1.13	< 0.45
Acenaphthene	83-32-9	< 0.19	NA	0.00	0.00	< 0.42	0.00	< 0.15	< 0.35	0.32
2,4-Dinitrophenol	105-67-9	< 1.52	NA	< 1.35	< 1.39	< 3.32	< 3.90	< 1.21	< 2.83	< 1.12
4-Nitrophenol	100-02-7	0.00	NA	< 1.60	< 1.65	< 3.93	< 4.62	< 1.43	< 3.35	< 1.33
Dibenzofuran	132-64-9	0.26	NA	< 0.12	< 0.12	< 0.29	< 0.33	0.06	< 0.24	0.10
2,3,4,6-Tetrachlorophenol	58-90-2	< 0.75	NA	< 0.66	< 0.68	< 1.64	< 1.92	< 0.59	< 1.40	< 0.55
Diethylphthalate	84-66-2	0.39	NA	0.13	0.00	1.55	0.00	0.06	1.18	< 0.12
4-Chlorophenyl-phenylether	70005-72-3	< 0.39	NA	< 0.34	< 0.35	< 0.85	< 1.00	< 0.31	< 0.72	< 0.28
Fluorene	86-73-7	< 0.19	NA	0.14	0.00	< 0.41	0.17	0.19	0.18	0.19
4-Nitroaniline	100-01-6	< 0.66	NA	< 0.58	< 0.60	< 1.44	< 1.69	< 0.52	< 1.23	< 0.49
4,6-Dinitro-2-methylphenol	534-52-1	< 1.14	NA	< 0.93	< 1.01	< 2.27	< 2.98	< 0.91	< 2.26	< 0.83
4-Bromophenyl-phenylether	101-55-3	< 0.74	NA	< 0.61	< 0.65	< 1.47	< 1.92	< 0.59	< 1.46	< 0.54
Hexachlorobenzene	118-74-1	< 0.60	NA	< 0.50	< 0.53	< 1.19	< 1.56	< 0.48	< 1.20	< 0.44
Pentachlorophenol	87-86-5	< 0.95	NA	< 0.78	< 0.84	< 1.89	< 2.48	< 0.76	< 1.88	< 0.69
Phenanthrene	85-01-8	1.68	NA	0.56	0.32	0.49	0.56	0.28	1.51	0.69
Anthracene	120-12-7	< 0.16	NA	< 0.13	< 0.14	< 0.31	< 0.41	< 0.13	0.00	< 0.12
Di-n-butylphthalate	84-74-2	0.00	NA	48.95	0.00	0.00	0.00	9.12	0.00	0.00
Fluoranthene	206-44-0	0.12	NA	0.30	< 0.14	< 0.32	< 0.43	0.00	< 0.33	0.02
Pyrene	129-00-0	1.11	NA	1.50	0.73	0.59	1.20	0.30	0.95	0.55
Butylbenzylphthalate	85-68-7	0.05	NA	0.00	0.00	0.00	< 0.91	< 0.30	0.27	< 0.25
3,3'-Dichlorobenzidine	91-94-1	< 0.59	NA	< 0.55	< 0.64	< 1.19	< 1.83	< 0.60	< 1.37	< 0.50
bis(2-Ethylhexyl)phthalate	117-81-7	360.89	NA	34.55	6.34	139.95	189.59	3.81	241.32	4.39
Benzo(a)anthracene	56-55-3	< 0.20	NA	< 0.18	< 0.21	< 0.41	< 0.62	< 0.20	< 0.46	< 0.17

* Average totals for Runs A and B presented in Table B.2.1

TRC

TABLE B.2-2
SMALL MIXER 1/LARGE MIXER 1 SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Number	TREAD		EPDM		SDW			SBR	
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small
Semi Vol (µg/m³)										
Chrysene	218-01-9	< 0.22	NA	< 0.21	< 0.24	< 0.45	< 0.69	< 0.23	< 0.51	< 0.19
Di-n-octylphthalate	117-84-0	< 0.19	NA	< 0.16	< 0.18	< 0.31	< 0.50	< 0.16	< 0.40	< 0.13
Benzo(b)fluoranthene	205-99-2	< 0.29	NA	< 0.24	< 0.27	< 0.48	< 0.76	< 0.24	< 0.61	< 0.20
Benzo(k)fluoranthene	207-08-9	< 0.29	NA	< 0.24	< 0.27	< 0.49	< 0.77	< 0.24	< 0.62	< 0.20
Benzo(a)pyrene	50-32-8	< 0.31	NA	< 0.26	< 0.30	< 0.52	< 0.84	< 0.26	< 0.67	< 0.22
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.31	NA	< 0.26	< 0.29	< 0.51	< 0.82	< 0.26	< 0.66	< 0.22
Dibenz(a,h)anthracene	53-90-3	< 0.38	NA	< 0.32	< 0.36	< 0.64	< 1.02	< 0.32	< 0.81	< 0.27
Benzo(g,h,i)perylene	191-24-2	< 0.35	NA	< 0.29	< 0.32	< 0.57	< 0.91	< 0.29	< 0.73	< 0.24
Cumene	98-82-8	14.35	NA	49.91	40.57	0.00	0.30	0.74	30.46	25.13
Aniline	62-53-3	17.93	NA	< 0.23	< 0.24	58.09	68.10	70.04	44.25	42.03
Benzyl Chloride	100-44-7	1.12	NA	< 0.20	< 0.21	0.00	< 0.58	0.03	< 0.42	< 0.17
Acetophenone	98-86-2	0.00	NA	285.76	183.72	0.00	0.00	3.60	0.00	12.96
n-Nitrosomorpholine	59-89-2	< 0.71	NA	< 0.61	< 0.64	< 1.57	< 1.78	< 0.54	< 1.29	< 0.52
o-Toluidine	95-53-4	34.89	NA	< 0.23	< 0.24	< 0.59	0.00	< 0.20	1.66	< 0.20
N,N-Dimethylaniline	121-69-7	< 0.25	NA	< 0.22	< 0.22	0.32	< 0.63	< 0.19	< 0.43	< 0.18
1,2-Dibromo-3-chloropropane	96-12-8	< 0.74	NA	< 0.63	< 0.66	< 1.62	< 1.84	< 0.56	< 1.33	< 0.54
o-Anisidine	90-04-0	< 0.48	NA	< 0.41	< 0.41	< 1.01	< 1.19	< 0.36	< 0.81	< 0.34
1,4-Phenylenediamine	106-50-3	< 0.66	NA	< 0.57	< 0.58	< 1.39	< 1.64	< 0.50	< 1.12	< 0.47
a-Terpineol	98-55-5	< 0.61	NA	< 0.52	< 0.00	< 1.29	< 1.51	< 0.00	70.86	< 0.00
N,N-Diethylaniline	91-66-7	0.17	NA	< 0.17	< 0.17	< 0.43	< 0.49	< 0.15	< 0.35	< 0.14
a,a,a-Trichlorotoluene	98-07-7	< 0.33	NA	< 0.28	< 0.29	< 0.70	< 0.82	< 0.25	< 0.55	< 0.24
Hydroquinone	123-31-9	< 0.57	NA	< 0.49	< 0.50	0.00	< 1.42	< 0.43	< 0.97	< 0.41
2-Chloroacetophenone	1341-24-8	< 0.20	NA	< 0.17	< 0.18	< 0.43	< 0.50	< 0.15	1.82	< 0.15
Biphenyl	92-52-4	2.73	NA	0.34	0.54	0.64	0.66	1.23	0.85	1.13
Trifluralin	1582-09-8	< 0.96	NA	< 0.85	< 0.88	< 2.10	< 2.48	< 0.77	< 1.80	< 0.71
4-Aminobiphenyl	92-67-1	< 0.25	NA	< 0.20	< 0.22	< 0.50	< 0.65	< 0.20	< 0.49	0.05
Pentachloronitrobenzene	82-68-8	< 1.97	NA	< 1.62	< 1.74	< 3.93	< 5.14	< 1.58	< 3.92	< 1.44
4-Nitrobiphenyl	92-93-3	< 0.63	NA	< 0.51	< 0.55	< 1.25	< 1.64	< 0.50	< 1.24	< 0.46
Benzidine	92-87-5	< 0.33	NA	< 0.31	< 0.36	< 0.67	< 1.03	< 0.34	< 0.78	< 0.28
4,4'-Methylenedianiline	101-77-9	< 0.55	NA	< 0.51	< 0.60	< 1.11	< 1.71	< 0.56	< 1.29	< 0.47
Dimethylaminoazobenzene	60-11-7	< 0.53	NA	< 0.50	< 0.57	< 1.08	< 1.65	< 0.55	< 1.24	< 0.45
3,3'-Dimethylbenzidine	119-93-7	1.15	NA	< 0.26	< 0.31	3.28	3.76	< 0.29	0.85	< 0.24
3,3'-Dimethoxybenzidine	119-90-4	< 0.64	NA	< 0.60	< 0.70	< 1.31	< 2.00	< 0.66	< 1.51	< 0.55
Methylene bis-chloroaniline	101-14-4	< 1.11	NA	< 1.04	< 1.21	< 2.26	< 3.46	< 1.15	< 2.60	< 0.95
3-Furaldehyde	498-60-2	< 0.74	NA	< 0.64	< 0.66	< 1.62	< 1.85	< 0.56	< 1.34	< 0.54
2-Furaldehyde	98-01-1	24.56	NA	0.00	0.36	0.00	0.00	0.33	18.31	14.07
Cyclohexylamine	108-91-8	< 2.67	NA	< 2.31	< 2.39	< 5.89	< 6.69	24.44	< 4.84	< 1.97
N-Nitrosodiethylamine	55-18-5	< 0.78	NA	< 0.68	< 0.70	< 1.72	< 1.96	< 0.60	< 1.42	< 0.58
Cyclohexanone	108-94-1	5.70	NA	2.28	2.59	1.35	3.14	5.51	3.29	9.53
1,3-Cyclooctadiene	1700-10-3	< 0.43	NA	24.49	22.56	< 0.95	< 1.09	< 0.33	< 0.78	< 0.32
1,5-Cyclooctadiene	111-78-4	< 0.98	NA	< 0.84	< 0.87	< 2.15	< 2.44	< 0.75	< 1.77	< 0.72
Camphene	79-92-5	3.95	NA	< 0.45	< 0.46	< 1.13	< 1.28	< 0.39	4.54	< 0.38
Benzaldehyde	100-52-7	12.48	NA	1.36	1.33	0.80	0.68	1.39	9.74	13.59
Benzonitrile	100-47-0	0.34	NA	< 0.15	< 0.16	< 0.38	< 0.44	< 0.13	< 0.31	< 0.13
Isooctanol	26952-21-6	< 5.11	NA	30.58	< 4.57	< 11.27	< 12.80	< 3.92	< 9.26	< 3.77
1,2,4-Trimethylbenzene	95-63-6	21.74	NA	0.76	2.05	1.03	1.19	1.51	10.26	8.16
3-Methylstyrene	100-80-1	< 0.26	NA	< 0.23	1.02	< 0.58	< 0.66	1.24	< 0.48	< 0.19
4-Methylstyrene	622-97-9	< 0.28	NA	< 0.24	0.46	< 0.61	< 0.70	0.57	< 0.50	< 0.21
4-Chlorostyrene	1073-67-2	< 0.31	NA	< 0.27	< 0.28	< 0.68	< 0.78	< 0.24	< 0.56	< 0.23
1-Dodecene	112-41-4	< 1.77	NA	5.93	7.38	< 3.75	< 4.41	< 1.34	< 3.00	< 1.27
Phthalimide	85-41-6	< 0.93	NA	< 0.82	< 0.85	< 2.03	< 2.38	< 0.74	< 1.73	< 0.69
Diphenylamine	122-39-4	38.68	NA	6.45	4.22	1.99	1.26	2.74	12.17	3.33
Total Detected (µg/m³)		628.90	NA	509.00	282.89	246.83	384.77	168.05	537.17	229.90
Total with Nondetects (µg/m³)		< 678.58	NA	< 548.79	< 328.75	< 354.97	< 519.92	< 206.39	< 634.53	< 268.11

* Average totals for Runs A and B presented in Table B.2.1

TRC

TABLE B.2-2
SMALL MIXER 1/LARGE MIXER 1 SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Number	TREAD		EPDM		SDW			SBR	
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small
Semi Vol (lb/hr)										
Pyridine	110-86-1	< 1.29E-06	NA	< 1.23E-06	< 4.03E-08	< 3.99E-06	< 4.31E-06	< 3.46E-08	< 2.74E-06	< 3.33E-08
Phenol	108-95-2	1.90E-05	NA	6.07E-06	2.32E-07	8.11E-06	9.72E-06	3.01E-07	1.43E-05	1.12E-06
bis(2-Chloroethyl)ether	111-44-4	< 1.02E-06	NA	< 9.86E-07	< 3.19E-08	< 3.16E-06	< 3.43E-06	< 2.74E-08	4.39E-05	< 2.63E-08
2-Chlorophenol	95-57-8	< 7.65E-07	NA	< 7.36E-07	< 2.38E-08	< 2.37E-06	< 2.54E-06	< 2.04E-08	< 1.61E-06	< 1.98E-08
1,3-Dichlorobenzene	541-73-1	< 7.54E-07	NA	< 7.24E-07	< 2.34E-08	< 2.33E-06	< 2.50E-06	< 2.01E-08	< 1.61E-06	< 1.95E-08
1,4-Dichlorobenzene	106-46-7	< 7.19E-07	NA	< 6.89E-07	0.00E+00	< 2.25E-06	0.00E+00	< 1.94E-08	< 1.53E-06	0.00E+00
1,2-Dichlorobenzene	95-50-1	< 7.88E-07	NA	< 7.60E-07	< 2.46E-08	< 2.45E-06	< 2.62E-06	< 2.11E-08	< 1.68E-06	< 2.03E-08
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.05E-06	NA	< 1.01E-06	< 3.27E-08	< 3.24E-06	< 3.51E-06	< 2.80E-08	< 2.23E-06	< 2.71E-08
Benzyl alcohol	100-51-6	< 1.35E-06	NA	8.19E-07	< 4.23E-08	1.54E-06	1.33E-06	0.00E+00	< 2.87E-06	4.15E-08
2-Methylphenol	95-48-7	< 1.02E-06	NA	< 9.74E-07	< 3.15E-08	0.00E+00	< 3.39E-06	0.00E+00	< 2.17E-06	1.84E-08
3/4-Methylphenol	108-39-4/106-44	< 9.70E-07	NA	< 9.26E-07	< 3.00E-08	< 2.99E-06	< 3.23E-06	1.42E-08	< 2.06E-06	3.96E-07
N-Nitroso-di-n-propylamine	621-64-7	< 1.64E-06	NA	< 1.58E-06	< 5.11E-08	< 5.07E-06	< 5.48E-06	< 4.38E-08	< 3.49E-06	< 4.24E-08
Hexachloroethane	67-72-1	< 1.64E-06	NA	< 1.58E-06	< 5.15E-08	< 5.11E-06	< 5.52E-06	< 4.42E-08	< 3.52E-06	< 4.26E-08
Nitrobenzene	98-95-3	3.95E-05	NA	< 1.03E-06	< 3.34E-08	< 3.24E-06	< 3.63E-06	< 2.87E-08	< 2.17E-06	< 2.74E-08
Isophorone	78-59-1	1.94E-06	NA	< 4.99E-07	< 1.61E-08	7.21E-05	7.31E-05	1.68E-06	9.05E-05	2.61E-06
2-Nitrophenol	88-75-5	< 1.31E-06	NA	< 1.26E-06	< 4.03E-08	< 3.91E-06	< 4.39E-06	< 3.49E-08	< 2.63E-06	< 3.30E-08
2,4-Dimethylphenol	105-67-9	< 1.20E-06	NA	< 1.14E-06	< 3.69E-08	1.46E-05	< 3.99E-06	4.53E-07	< 2.39E-06	6.32E-07
bis(2-Chloroethoxy)methane	111-91-1	< 8.91E-07	NA	< 8.55E-07	< 2.73E-08	< 2.66E-06	< 2.94E-06	< 2.34E-08	< 1.77E-06	< 2.23E-08
Benzoic acid	65-85-0	1.96E-05	NA	2.46E-05	0.00E+00	0.00E+00	2.64E-04	0.00E+00	< 3.56E-06	< 4.49E-08
2,4-Dichlorophenol	120-83-2	< 1.10E-06	NA	< 1.04E-06	< 3.38E-08	< 3.28E-06	< 3.63E-06	< 2.90E-08	< 2.19E-06	< 2.77E-08
1,2,4-Trichlorobenzene	120-82-1	< 1.00E-06	NA	< 9.62E-07	< 3.07E-08	< 2.99E-06	< 3.35E-06	< 2.67E-08	< 1.99E-06	< 2.54E-08
Naphthalene	91-20-3	7.08E-05	NA	8.43E-06	4.24E-07	2.23E-05	2.83E-05	7.53E-07	5.45E-05	2.04E-06
4-Chloroaniline	106-47-8	< 7.19E-07	NA	< 6.89E-07	< 2.19E-08	< 2.12E-06	< 2.38E-06	8.54E-08	< 1.44E-06	< 1.81E-08
Hexachlorobutadiene	87-68-3	< 1.69E-06	NA	< 1.61E-06	< 5.19E-08	< 5.03E-06	< 5.60E-06	< 4.45E-08	< 3.36E-06	< 4.26E-08
4-Chloro-3-methylphenol	59-50-7	< 1.22E-06	NA	< 1.16E-06	< 3.73E-08	< 3.62E-06	< 4.03E-06	< 3.23E-08	< 2.43E-06	< 3.08E-08
2-Methylnaphthalene	91-57-6	5.34E-05	NA	1.33E-06	2.61E-08	3.83E-06	3.99E-06	1.15E-07	2.85E-05	8.89E-07
Hexachlorocyclopentadiene	77-47-4	< 1.56E-06	NA	< 1.53E-06	< 4.99E-08	< 4.78E-06	< 5.36E-06	< 4.32E-08	< 3.41E-06	< 4.04E-08
2,4,6-Trichlorophenol	88-06-2	< 1.51E-06	NA	< 1.48E-06	< 4.84E-08	< 4.66E-06	< 5.20E-06	< 4.19E-08	< 3.32E-06	< 3.90E-08
2,4,5-Trichlorophenol	95-95-4	< 1.46E-06	NA	< 1.44E-06	< 4.65E-08	< 4.49E-06	< 5.00E-06	< 4.05E-08	< 3.18E-06	< 3.78E-08
2-Chloronaphthalene	91-58-7	< 5.02E-07	NA	< 4.87E-07	< 1.61E-08	< 1.54E-06	< 1.73E-06	< 1.38E-08	< 1.11E-06	< 1.30E-08
2-Nitroaniline	88-74-4	< 2.08E-06	NA	< 2.04E-06	< 6.65E-08	< 6.40E-06	< 7.14E-06	< 5.77E-08	< 4.55E-06	< 5.39E-08
Dimethylphthalate	131-11-3	< 4.57E-07	NA	2.85E-07	0.00E+00	2.49E-06	3.23E-07	< 1.25E-08	1.75E-06	< 1.19E-08
2,6-Dinitrotoluene	606-20-2	< 1.78E-06	NA	< 1.75E-06	< 5.69E-08	< 5.45E-06	< 6.09E-06	< 4.91E-08	< 3.89E-06	< 4.60E-08
2,4-Dinitrotoluene	121-14-2	< 1.37E-06	NA	< 1.35E-06	< 4.38E-08	< 4.20E-06	< 4.72E-06	< 3.82E-08	< 3.01E-06	< 3.56E-08
Acenaphthylene	208-96-8	1.14E-05	NA	8.79E-07	9.11E-08	6.82E-06	7.58E-06	2.30E-07	1.41E-05	6.11E-07
3-Nitroaniline	99-09-2	< 1.54E-06	NA	< 1.52E-06	< 4.92E-08	< 4.74E-06	< 5.28E-06	< 4.28E-08	< 3.38E-06	< 3.98E-08
Acenaphthene	83-32-9	< 4.91E-07	NA	0.00E+00	0.00E+00	< 1.50E-06	0.00E+00	< 1.35E-08	< 1.06E-06	2.85E-08
2,4-Dinitrophenol	105-67-9	< 3.87E-06	NA	< 3.80E-06	< 1.23E-07	< 1.19E-05	< 1.33E-05	< 1.07E-07	< 8.47E-06	< 1.00E-07
4-Nitrophenol	100-02-7	0.00E+00	NA	< 4.51E-06	< 1.46E-07	< 1.41E-05	< 1.57E-05	< 1.27E-07	< 1.00E-05	< 1.19E-07
Dibenzofuran	132-64-9	6.74E-07	NA	< 3.32E-07	< 1.08E-08	< 1.04E-06	< 1.13E-06	5.60E-09	< 7.30E-07	8.76E-09
2,3,4,6-Tetrachlorophenol	58-90-2	< 1.91E-06	NA	< 1.88E-06	< 6.07E-08	< 5.86E-06	< 6.53E-06	< 5.27E-08	< 4.18E-06	< 4.94E-08
Diethylphthalate	84-66-2	9.93E-07	NA	3.68E-07	0.00E+00	5.57E-06	0.00E+00	4.94E-09	3.54E-06	< 1.10E-08
4-Chlorophenyl-phenylether	70005-72-3	< 9.93E-07	NA	< 9.74E-07	< 3.15E-08	< 3.04E-06	< 3.39E-06	< 2.74E-08	< 2.17E-06	< 2.54E-08
Fluorene	86-73-7	< 4.80E-07	NA	3.92E-07	0.00E+00	< 1.46E-06	5.64E-07	1.71E-08	5.53E-07	1.67E-08
4-Nitroaniline	100-01-6	< 1.68E-06	NA	< 1.65E-06	< 5.34E-08	< 5.16E-06	< 5.77E-06	< 4.65E-08	< 3.67E-06	< 4.35E-08
4,6-Dinitro-2-methylphenol	534-52-1	< 2.90E-06	NA	< 2.64E-06	< 8.95E-08	< 8.15E-06	< 1.01E-05	< 8.11E-08	< 6.77E-06	< 7.43E-08
4-Bromophenyl-phenylether	101-55-3	< 1.88E-06	NA	< 1.71E-06	< 5.80E-08	< 5.28E-06	< 6.53E-06	< 5.27E-08	< 4.38E-06	< 4.83E-08
Hexachlorobenzene	118-74-1	< 1.53E-06	NA	< 1.40E-06	< 4.73E-08	< 4.28E-06	< 5.32E-06	< 4.28E-08	< 3.58E-06	< 3.93E-08
Pentachlorophenol	87-86-5	< 2.42E-06	NA	< 2.20E-06	< 7.45E-08	< 6.78E-06	< 8.43E-06	< 6.76E-08	< 5.64E-06	< 6.19E-08
Phenanthrene	85-01-8	4.28E-06	NA	1.58E-06	2.88E-08	1.75E-06	1.89E-06	2.50E-08	4.51E-06	6.19E-08
Anthracene	120-12-7	< 4.11E-07	NA	< 3.68E-07	< 1.27E-08	< 1.12E-06	< 1.41E-06	< 1.12E-08	0.00E+00	< 1.04E-08
Di-n-butylphthalate	84-74-2	0.00E+00	NA	1.38E-04	0.00E+00	0.00E+00	0.00E+00	8.10E-07	0.00E+00	0.00E+00
Fluoranthene	206-44-0	3.08E-07	NA	8.43E-07	< 1.27E-08	< 1.16E-06	< 1.45E-06	0.00E+00	< 9.73E-07	1.69E-09
Pyrene	129-00-0	2.82E-06	NA	4.23E-06	6.49E-08	2.12E-06	4.07E-06	2.70E-08	2.83E-06	4.89E-08
Butylbenzylphthalate	85-68-7	1.37E-07	NA	0.00E+00	0.00E+00	0.00E+00	< 3.10E-06	< 2.67E-08	8.18E-07	< 2.23E-08
3,3'-Dichlorobenzidine	91-94-1	< 1.50E-06	NA	< 1.56E-06	< 5.65E-08	< 4.28E-06	< 6.21E-06	< 5.37E-08	< 4.11E-06	< 4.46E-08
bis(2-Ethylhexyl)phthalate	117-81-7	9.19E-04	NA	9.76E-05	5.64E-07	5.02E-04	6.45E-04	3.39E-07	7.22E-04	3.92E-07
Benzo(a)anthracene	56-55-3	< 5.02E-07	NA	< 5.22E-07	< 1.88E-08	< 1.46E-06	< 2.10E-06	< 1.78E-08	< 1.37E-06	< 1.50E-08

* Average totals for Runs A and B presented in Table B.2.1

TRC

TABLE B.2-2
SMALL MIXER 1/LARGE MIXER 1 SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Number	TREAD Large	TREAD Small	EPDM Large	EPDM Small	SDW Large-A*	SDW Large-B*	SDW Small	SBR Large	SBR Small
Semi Vol (lb/hr)										
Chrysene	218-01-9	< 5.59E-07	NA	< 5.82E-07	< 2.11E-08	< 1.62E-06	< 2.34E-06	< 2.01E-08	< 1.53E-06	< 1.67E-08
Di-n-octylphthalate	117-84-0	< 4.80E-07	NA	< 4.39E-07	< 1.58E-08	< 1.12E-06	< 1.69E-06	< 1.38E-08	< 1.19E-06	< 1.16E-08
Benzo(b)fluoranthene	205-99-2	< 7.31E-07	NA	< 6.77E-07	< 2.38E-08	< 1.70E-06	< 2.58E-06	< 2.11E-08	< 1.81E-06	< 1.75E-08
Benzo(k)fluoranthene	207-08-9	< 7.42E-07	NA	< 6.89E-07	< 2.42E-08	< 1.75E-06	< 2.62E-06	< 2.14E-08	< 1.86E-06	< 1.81E-08
Benzo(a)pyrene	50-32-8	< 7.99E-07	NA	< 7.48E-07	< 2.65E-08	< 1.87E-06	< 2.86E-06	< 2.31E-08	< 2.01E-06	< 1.95E-08
Indeno(1,2,3-cd)pyrene	193-39-5	< 7.88E-07	NA	< 7.24E-07	< 2.57E-08	< 1.83E-06	< 2.78E-06	< 2.27E-08	< 1.97E-06	< 1.92E-08
Dibenz(a,h)anthracene	53-90-3	< 9.70E-07	NA	< 9.02E-07	< 3.19E-08	< 2.29E-06	< 3.47E-06	< 2.80E-08	< 2.43E-06	< 2.37E-08
Benzo(g,h,i)perylene	191-24-2	< 8.79E-07	NA	< 8.07E-07	< 2.88E-08	< 2.04E-06	< 3.10E-06	< 2.54E-08	< 2.19E-06	< 2.12E-08
Cumene	98-82-8	3.65E-05	NA	1.41E-04	3.61E-06	0.00E+00	1.01E-06	6.56E-08	9.12E-05	2.24E-06
Aniline	62-53-3	4.57E-05	NA	< 6.53E-07	< 2.11E-08	2.08E-04	2.32E-04	6.22E-06	1.32E-04	3.75E-06
Benzyl Chloride	100-44-7	2.85E-06	NA	< 5.70E-07	< 1.84E-08	0.00E+00	< 1.98E-06	2.64E-09	< 1.26E-06	< 1.53E-08
Acetophenone	98-86-2	0.00E+00	NA	8.07E-04	1.63E-05	0.00E+00	0.00E+00	3.20E-07	0.00E+00	1.16E-06
n-Nitrosomorpholine	59-89-2	< 1.80E-06	NA	< 1.73E-06	< 5.65E-08	< 5.61E-06	< 6.05E-06	< 4.81E-08	< 3.85E-06	< 4.66E-08
o-Toluidine	95-53-4	8.89E-05	NA	< 6.53E-07	< 2.11E-08	< 2.12E-06	0.00E+00	< 1.81E-08	4.97E-06	< 1.75E-08
N,N-Dimethylaniline	121-69-7	< 6.39E-07	NA	< 6.17E-07	< 1.96E-08	1.16E-06	< 2.14E-06	< 1.68E-08	< 1.28E-06	< 1.61E-08
1,2-Dibromo-3-chloropropane	96-12-8	< 1.87E-06	NA	< 1.79E-06	< 5.84E-08	< 5.82E-06	< 6.25E-06	< 5.01E-08	< 3.98E-06	< 4.83E-08
o-Anisidine	90-04-0	< 1.21E-06	NA	< 1.15E-06	< 3.69E-08	< 3.62E-06	< 4.03E-06	< 3.20E-08	< 2.41E-06	< 3.05E-08
1,4-Phenylenediamine	106-50-3	< 1.68E-06	NA	< 1.60E-06	< 5.15E-08	< 4.99E-06	< 5.56E-06	< 4.45E-08	< 3.34E-06	< 4.24E-08
a-Terpineol	98-55-5	< 1.54E-06	NA	< 1.47E-06	< 0.00E+00	< 4.62E-06	< 5.12E-06	< 0.00E+00	2.12E-04	< 0.00E+00
N,N-Diethylaniline	91-66-7	4.22E-07	NA	< 4.75E-07	< 1.54E-08	< 1.54E-06	< 1.65E-06	< 1.32E-08	< 1.06E-06	< 1.27E-08
a,a,a-Trichlorotoluene	98-07-7	< 8.33E-07	NA	< 7.96E-07	< 2.57E-08	< 2.49E-06	< 2.78E-06	< 2.21E-08	< 1.66E-06	< 2.12E-08
Hydroquinone	123-31-9	< 1.45E-06	NA	< 1.39E-06	< 4.46E-08	0.00E+00	< 4.84E-06	< 3.86E-08	< 2.90E-06	< 3.67E-08
2-Chloroacetophenone	1341-24-8	< 5.14E-07	NA	< 4.87E-07	< 1.58E-08	< 1.54E-06	< 1.69E-06	< 1.35E-08	5.44E-06	< 1.30E-08
Biphenyl	92-52-4	6.94E-06	NA	9.74E-07	4.80E-08	2.29E-06	2.26E-06	1.09E-07	2.54E-06	1.01E-07
Trifluralin	1582-09-8	< 2.45E-06	NA	< 2.41E-06	< 7.84E-08	< 7.53E-06	< 8.43E-06	< 6.82E-08	< 5.37E-06	< 6.35E-08
4-Aminobiphenyl	92-67-1	< 6.28E-07	NA	< 5.70E-07	< 1.96E-08	< 1.79E-06	< 2.22E-06	< 1.78E-08	< 1.48E-06	4.52E-09
Pentachloronitrobenzene	82-68-8	< 5.02E-06	NA	< 4.57E-06	< 1.55E-07	< 1.41E-05	< 1.75E-05	< 1.41E-07	< 1.17E-05	< 1.29E-07
4-Nitrobiphenyl	92-93-3	< 1.60E-06	NA	< 1.45E-06	< 4.92E-08	< 4.49E-06	< 5.56E-06	< 4.45E-08	< 3.71E-06	< 4.10E-08
Benzidine	92-87-5	< 8.45E-07	NA	< 8.79E-07	< 3.19E-08	< 2.41E-06	< 3.51E-06	< 3.03E-08	< 2.32E-06	< 2.51E-08
4,4'-Methylenedianiline	101-77-9	< 1.39E-06	NA	< 1.45E-06	< 5.30E-08	< 3.99E-06	< 5.81E-06	< 5.01E-08	< 3.85E-06	< 4.18E-08
Dimethylaminoazobenzene	60-11-7	< 1.35E-06	NA	< 1.40E-06	< 5.11E-08	< 3.87E-06	< 5.60E-06	< 4.84E-08	< 3.71E-06	< 4.04E-08
3,3'-Dimethylbenzidine	119-93-7	2.93E-06	NA	< 7.36E-07	< 2.73E-08	1.18E-05	1.28E-05	< 2.57E-08	2.54E-06	< 2.15E-08
3,3'-Dimethoxybenzidine	119-90-4	< 1.63E-06	NA	< 1.70E-06	< 6.22E-08	< 4.70E-06	< 6.81E-06	< 5.90E-08	< 4.51E-06	< 4.91E-08
Methylene bis-chloroaniline	101-14-4	< 2.83E-06	NA	< 2.93E-06	< 1.07E-07	< 8.11E-06	< 1.18E-05	< 1.02E-07	< 7.78E-06	< 8.47E-08
3-Furaldehyde	498-60-2	< 1.88E-06	NA	< 1.80E-06	< 5.88E-08	< 5.82E-06	< 6.29E-06	< 5.01E-08	< 4.00E-06	< 4.86E-08
2-Furaldehyde	98-01-1	6.26E-05	NA	0.00E+00	3.23E-08	0.00E+00	0.00E+00	2.90E-08	5.48E-05	1.26E-06
Cyclohexylamine	108-91-8	< 6.80E-06	NA	< 6.53E-06	< 2.12E-07	< 2.11E-05	< 2.27E-05	2.17E-06	< 1.45E-05	< 1.76E-07
N-Nitrosodiethylamine	55-18-5	< 1.99E-06	NA	< 1.91E-06	< 6.22E-08	< 6.15E-06	< 6.65E-06	< 5.34E-08	< 4.25E-06	< 5.14E-08
Cyclohexanone	108-94-1	1.45E-05	NA	6.45E-06	2.31E-07	4.82E-06	1.07E-05	4.90E-07	9.86E-06	8.50E-07
1,3-Cyclooctadiene	1700-10-3	< 1.11E-06	NA	6.92E-05	2.01E-06	< 3.41E-06	< 3.71E-06	< 2.97E-08	< 2.34E-06	< 2.85E-08
1,5-Cyclooctadiene	111-78-4	< 2.49E-06	NA	< 2.39E-06	< 7.76E-08	< 7.69E-06	< 8.31E-06	< 6.66E-08	< 5.28E-06	< 6.41E-08
Camphene	79-92-5	1.01E-05	NA	< 1.26E-06	< 4.07E-08	< 4.03E-06	< 4.35E-06	< 3.49E-08	1.36E-05	< 3.36E-08
Benzaldehyde	100-52-7	3.18E-05	NA	3.85E-06	1.18E-07	2.87E-06	2.30E-06	1.24E-07	2.92E-05	1.21E-06
Benzonitrile	100-47-0	8.68E-07	NA	< 4.27E-07	< 1.38E-08	< 1.37E-06	< 1.49E-06	< 1.19E-08	< 9.29E-07	< 1.13E-08
Isooctanol	26952-21-6	< 1.30E-05	NA	8.64E-05	< 4.07E-07	< 4.04E-05	< 4.35E-05	< 3.49E-07	< 2.77E-05	< 3.36E-07
1,2,4-Trimethylbenzene	95-63-6	5.54E-05	NA	2.14E-06	1.83E-07	3.70E-06	4.03E-06	1.34E-07	3.07E-05	7.28E-07
3-Methylstyrene	100-80-1	< 6.74E-07	NA	< 6.41E-07	9.07E-08	< 2.08E-06	< 2.26E-06	1.10E-07	< 1.44E-06	< 1.72E-08
4-Methylstyrene	622-97-9	< 7.08E-07	NA	< 6.77E-07	4.07E-08	< 2.20E-06	< 2.38E-06	5.04E-08	< 1.50E-06	< 1.84E-08
4-Chlorostyrene	1073-67-2	< 7.88E-07	NA	< 7.60E-07	< 2.46E-08	< 2.45E-06	< 2.66E-06	< 2.11E-08	< 1.68E-06	< 2.03E-08
1-Dodecene	112-41-4	< 4.51E-06	NA	1.67E-05	6.56E-07	< 1.34E-05	< 1.50E-05	< 1.19E-07	< 8.98E-06	< 1.14E-07
Phthalimide	85-41-6	< 2.36E-06	NA	< 2.33E-06	< 7.57E-08	< 7.28E-06	< 8.10E-06	< 6.56E-08	< 5.17E-06	< 6.13E-08
Diphenylamine	122-39-4	9.85E-05	NA	1.82E-05	3.75E-07	7.15E-06	4.27E-06	2.44E-07	3.64E-05	2.97E-07
Total Detected (lbs/hr)		1.60E-03	NA	1.44E-03	2.51E-05	8.85E-04	1.31E-03	1.49E-05	1.61E-03	2.05E-05
Total with Nondetects (lbs/hr)		< 1.73E-03	NA	< 1.55E-03	< 2.92E-05	< 1.27E-03	< 1.77E-03	< 1.83E-05	< 1.90E-03	< 2.39E-05

* Average totals for Runs A and B presented in Table B.2.1

TRC

TABLE B.2-2
SMALL MIXER 1/LARGE MIXER 1 SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Number	TREAD		EPDM		SDW			SBR	
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small
Semi.Volatiles (lb/lb rubber)										
Pyridine	110-86-1	< 4.29E-09	NA	< 3.59E-09	< 4.61E-09	< 1.84E-08	< 1.99E-08	< 3.63E-09	< 5.40E-09	< 3.03E-09
Phenol	108-95-2	6.31E-08	NA	1.77E-08	2.65E-08	3.74E-08	4.49E-08	3.15E-08	2.82E-08	1.02E-07
bis(2-Chloroethyl)ether	111-44-4	< 3.38E-09	NA	< 2.87E-09	< 3.64E-09	< 1.46E-08	< 1.58E-08	< 2.87E-09	8.65E-08	< 2.39E-09
2-Chlorophenol	95-57-8	< 2.55E-09	NA	< 2.14E-09	< 2.72E-09	< 1.09E-08	< 1.17E-08	< 2.14E-09	< 3.18E-09	< 1.80E-09
1,3-Dichlorobenzene	541-73-1	< 2.51E-09	NA	< 2.11E-09	< 2.68E-09	< 1.07E-08	< 1.15E-08	< 2.11E-09	< 3.18E-09	< 1.77E-09
1,4-Dichlorobenzene	106-46-7	< 2.39E-09	NA	< 2.00E-09	0.00E+00	< 1.04E-08	0.00E+00	< 2.04E-09	< 3.01E-09	0.00E+00
1,2-Dichlorobenzene	95-50-1	< 2.62E-09	NA	< 2.21E-09	< 2.81E-09	< 1.13E-08	< 1.21E-08	< 2.21E-09	< 3.31E-09	< 1.85E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 3.50E-09	NA	< 2.94E-09	< 3.73E-09	< 1.50E-08	< 1.62E-08	< 2.94E-09	< 4.40E-09	< 2.47E-09
Benzyl alcohol	100-51-6	< 4.48E-09	NA	2.39E-09	< 4.83E-09	7.10E-09	6.14E-09	0.00E+00	< 5.66E-09	3.78E-09
2-Methylphenol	95-48-7	< 3.38E-09	NA	< 2.83E-09	< 3.60E-09	0.00E+00	< 1.56E-08	0.00E+00	< 4.27E-09	1.67E-09
3/4-Methylphenol	108-39-4/106-44	< 3.23E-09	NA	< 2.70E-09	< 3.43E-09	< 1.38E-08	< 1.49E-08	1.49E-09	< 4.05E-09	3.60E-08
N-Nitroso-di-n-propylamine	621-64-7	< 5.47E-09	NA	< 4.60E-09	< 5.84E-09	< 2.34E-08	< 2.53E-08	< 4.59E-09	< 6.88E-09	< 3.85E-09
Hexachloroethane	67-72-1	< 5.47E-09	NA	< 4.60E-09	< 5.88E-09	< 2.36E-08	< 2.55E-08	< 4.63E-09	< 6.92E-09	< 3.88E-09
Nitrobenzene	98-95-3	1.31E-07	NA	< 3.01E-09	< 3.82E-09	< 1.50E-08	< 1.67E-08	< 3.01E-09	< 4.27E-09	< 2.49E-09
Isophorone	78-59-1	6.46E-09	NA	< 1.45E-09	< 1.84E-09	3.33E-07	3.37E-07	1.76E-07	1.78E-07	2.37E-07
2-Nitrophenol	88-75-5	< 4.37E-09	NA	< 3.66E-09	< 4.61E-09	< 1.80E-08	< 2.03E-08	< 3.66E-09	< 5.18E-09	< 3.01E-09
2,4-Dimethylphenol	105-67-9	< 3.99E-09	NA	< 3.32E-09	< 4.22E-09	6.72E-08	< 1.84E-08	4.75E-08	< 4.70E-09	5.75E-08
bis(2-Chloroethoxy)methane	111-91-1	< 2.96E-09	NA	< 2.49E-09	< 3.12E-09	< 1.23E-08	< 1.36E-08	< 2.45E-09	< 3.48E-09	< 2.03E-09
Benzoic acid	65-85-0	6.52E-08	NA	7.16E-08	0.00E+00	0.00E+00	1.22E-06	0.00E+00	< 7.01E-09	< 4.09E-09
2,4-Dichlorophenol	120-83-2	< 3.65E-09	NA	< 3.04E-09	< 3.86E-09	< 1.52E-08	< 1.67E-08	< 3.04E-09	< 4.31E-09	< 2.52E-09
1,2,4-Trichlorobenzene	120-82-1	< 3.34E-09	NA	< 2.80E-09	< 3.51E-09	< 1.38E-08	< 1.54E-08	< 2.80E-09	< 3.92E-09	< 2.31E-09
Naphthalene	91-20-3	2.36E-07	NA	2.45E-08	4.84E-08	1.03E-07	1.30E-07	7.89E-08	1.07E-07	1.85E-07
4-Chloroaniline	106-47-8	< 2.39E-09	NA	< 2.00E-09	< 2.50E-09	< 9.79E-09	< 1.10E-08	8.95E-09	< 2.83E-09	< 1.64E-09
Hexachlorobutadiene	87-68-3	< 5.62E-09	NA	< 4.70E-09	< 5.93E-09	< 2.32E-08	< 2.59E-08	< 4.66E-09	< 6.62E-09	< 3.88E-09
4-Chloro-3-methylphenol	59-50-7	< 4.07E-09	NA	< 3.39E-09	< 4.26E-09	< 1.67E-08	< 1.86E-08	< 3.39E-09	< 4.79E-09	< 2.80E-09
2-Methylnaphthalene	91-57-6	1.78E-07	NA	3.87E-09	2.99E-09	1.77E-08	1.84E-08	1.21E-08	5.61E-08	8.09E-08
Hexachlorocyclopentadiene	77-47-4	< 5.21E-09	NA	< 4.46E-09	< 5.71E-09	< 2.21E-08	< 2.48E-08	< 4.53E-09	< 6.71E-09	< 3.67E-09
2,4,6-Trichlorophenol	88-06-2	< 5.02E-09	NA	< 4.32E-09	< 5.53E-09	< 2.15E-08	< 2.40E-08	< 4.39E-09	< 6.53E-09	< 3.55E-09
2,4,5-Trichlorophenol	95-95-4	< 4.86E-09	NA	< 4.18E-09	< 5.31E-09	< 2.07E-08	< 2.31E-08	< 4.25E-09	< 6.27E-09	< 3.44E-09
2-Chloronaphthalene	91-58-7	< 1.67E-09	NA	< 1.42E-09	< 1.84E-09	< 7.10E-09	< 8.00E-09	< 1.45E-09	< 2.18E-09	< 1.18E-09
2-Nitroaniline	88-74-4	< 6.92E-09	NA	< 5.95E-09	< 7.60E-09	< 2.96E-08	< 3.29E-08	< 6.05E-09	< 8.97E-09	< 4.91E-09
Dimethylphthalate	131-11-3	< 1.52E-09	NA	8.30E-10	0.00E+00	1.15E-08	1.49E-09	< 1.31E-09	3.44E-09	< 1.08E-09
2,6-Dinitrotoluene	606-20-2	< 5.93E-09	NA	< 5.08E-09	< 6.50E-09	< 2.51E-08	< 2.81E-08	< 5.15E-09	< 7.67E-09	< 4.19E-09
2,4-Dinitrotoluene	121-14-2	< 4.56E-09	NA	< 3.94E-09	< 5.01E-09	< 1.94E-08	< 2.18E-08	< 4.01E-09	< 5.92E-09	< 3.24E-09
Acenaphthylene	208-96-8	3.80E-08	NA	2.56E-09	1.04E-08	3.15E-08	3.50E-08	2.41E-08	2.78E-08	5.56E-08
3-Nitroaniline	99-09-2	< 5.13E-09	NA	< 4.42E-09	< 5.62E-09	< 2.19E-08	< 2.44E-08	< 4.49E-09	< 6.66E-09	< 3.62E-09
Acenaphthene	83-32-9	< 1.63E-09	NA	0.00E+00	0.00E+00	< 6.91E-09	0.00E+00	< 1.42E-09	< 2.09E-09	2.60E-09
2,4-Dinitrophenol	105-67-9	< 1.29E-08	NA	< 1.11E-08	< 1.41E-08	< 5.49E-08	< 6.12E-08	< 1.12E-08	< 1.67E-08	< 9.10E-09
4-Nitrophenol	100-02-7	0.00E+00	NA	< 1.31E-08	< 1.67E-08	< 6.51E-08	< 7.26E-08	< 1.33E-08	< 1.98E-08	< 1.08E-08
Dibenzofuran	132-64-9	2.24E-09	NA	< 9.68E-10	< 1.23E-09	< 4.80E-09	< 5.21E-09	5.87E-10	< 1.44E-09	7.97E-10
2,3,4,6-Tetrachlorophenol	58-90-2	< 6.35E-09	NA	< 5.46E-09	< 6.94E-09	< 2.71E-08	< 3.01E-08	< 5.53E-09	< 8.23E-09	< 4.50E-09
Diethylphthalate	84-66-2	3.31E-09	NA	1.07E-09	0.00E+00	2.57E-08	0.00E+00	5.18E-10	6.97E-09	< 1.00E-09
4-Chlorophenyl-phenylether	70005-72-3	< 3.31E-09	NA	< 2.83E-09	< 3.60E-09	< 1.40E-08	< 1.56E-08	< 2.87E-09	< 4.27E-09	< 2.31E-09
Fluorene	86-73-7	< 1.60E-09	NA	1.14E-09	0.00E+00	< 6.72E-09	2.61E-09	1.80E-09	1.09E-09	1.52E-09
4-Nitroaniline	100-01-6	< 5.59E-09	NA	< 4.80E-09	< 6.10E-09	< 2.38E-08	< 2.66E-08	< 4.87E-09	< 7.23E-09	< 3.96E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 9.65E-09	NA	< 7.67E-09	< 1.02E-08	< 3.76E-08	< 4.67E-08	< 8.50E-09	< 1.33E-08	< 6.76E-09
4-Bromophenyl-phenylether	101-55-3	< 6.27E-09	NA	< 4.98E-09	< 6.63E-09	< 2.44E-08	< 3.01E-08	< 5.53E-09	< 8.62E-09	< 4.39E-09
Hexachlorobenzene	118-74-1	< 5.09E-09	NA	< 4.08E-09	< 5.40E-09	< 1.98E-08	< 2.46E-08	< 4.49E-09	< 7.06E-09	< 3.57E-09
Pentachlorophenol	87-86-5	< 8.06E-09	NA	< 6.39E-09	< 8.52E-09	< 3.13E-08	< 3.89E-08	< 7.08E-09	< 1.11E-08	< 5.63E-09
Phenanthrene	85-01-8	1.42E-08	NA	4.60E-09	3.29E-09	8.06E-09	8.75E-09	2.63E-09	8.88E-09	5.63E-09
Anthracene	120-12-7	< 1.37E-09	NA	< 1.07E-09	< 1.45E-09	< 5.18E-09	< 6.51E-09	< 1.17E-09	0.00E+00	< 9.51E-10
Di-n-butylphthalate	84-74-2	0.00E+00	NA	4.03E-07	0.00E+00	0.00E+00	0.00E+00	8.49E-08	0.00E+00	0.00E+00
Fluoranthene	206-44-0	1.03E-09	NA	2.45E-09	< 1.45E-09	< 5.37E-09	< 6.70E-09	0.00E+00	< 1.92E-09	1.54E-10
Pyrene	129-00-0	9.39E-09	NA	1.23E-08	7.42E-09	9.79E-09	1.88E-08	2.83E-09	5.57E-09	4.45E-09
Butylbenzylphthalate	85-68-7	4.56E-10	NA	0.00E+00	0.00E+00	0.00E+00	< 1.43E-08	< 2.80E-09	1.61E-09	< 2.03E-09
3,3'-Dichlorobenzidine	91-94-1	< 4.98E-09	NA	< 4.53E-09	< 6.45E-09	< 1.98E-08	< 2.87E-08	< 5.63E-09	< 8.10E-09	< 4.06E-09
bis(2-Ethylhexyl)phthalate	117-81-7	3.06E-06	NA	2.84E-07	6.44E-08	2.32E-06	2.98E-06	3.55E-08	1.42E-06	3.57E-08
Benzo(a)anthracene	56-55-3	< 1.67E-09	NA	< 1.52E-09	< 2.15E-09	< 6.72E-09	< 9.68E-09	< 1.87E-09	< 2.70E-09	< 1.36E-09

* Average totals for Runs A and B presented in Table B.2.1

TRC

TABLE B.2-2
SMALL MIXER 1/LARGE MIXER 1 SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Number	TREAD Large	TREAD Small	EPDM Large	EPDM Small	SDW Large-A*	SDW Large-B*	SDW Small	SBR Large	SBR Small
Semi Volatiles (lb/lb rubber)										
Chrysene	218-01-9	< 1.86E-09	NA	< 1.69E-09	< 2.42E-09	< 7.49E-09	< 1.08E-08	< 2.11E-09	< 3.01E-09	< 1.52E-09
Di-n-octylphthalate	117-84-0	< 1.60E-09	NA	< 1.28E-09	< 1.80E-09	< 5.18E-09	< 7.82E-09	< 1.45E-09	< 2.35E-09	< 1.05E-09
Benzo(b)fluoranthene	205-99-2	< 2.43E-09	NA	< 1.97E-09	< 2.72E-09	< 7.87E-09	< 1.19E-08	< 2.21E-09	< 3.57E-09	< 1.59E-09
Benzo(k)fluoranthene	207-08-9	< 2.47E-09	NA	< 2.00E-09	< 2.77E-09	< 8.06E-09	< 1.21E-08	< 2.25E-09	< 3.66E-09	< 1.64E-09
Benzo(a)pyrene	50-32-8	< 2.66E-09	NA	< 2.18E-09	< 3.03E-09	< 8.64E-09	< 1.32E-08	< 2.42E-09	< 3.96E-09	< 1.77E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 2.62E-09	NA	< 2.11E-09	< 2.94E-09	< 8.45E-09	< 1.28E-08	< 2.38E-09	< 3.88E-09	< 1.75E-09
Dibenz(a,h)anthracene	53-90-3	< 3.23E-09	NA	< 2.63E-09	< 3.64E-09	< 1.06E-08	< 1.60E-08	< 2.94E-09	< 4.79E-09	< 2.16E-09
Benzo(g,h,i)perylene	191-24-2	< 2.93E-09	NA	< 2.35E-09	< 3.29E-09	< 9.41E-09	< 1.43E-08	< 2.66E-09	< 4.31E-09	< 1.93E-09
Cumene	98-82-8	1.22E-07	NA	4.10E-07	4.12E-07	0.00E+00	4.65E-09	6.87E-09	1.80E-07	2.04E-07
Aniline	62-53-3	1.52E-07	NA	< 1.90E-09	< 2.42E-09	9.61E-07	1.07E-06	6.52E-07	2.61E-07	3.41E-07
Benzyl Chloride	100-44-7	9.50E-09	NA	< 1.66E-09	< 2.11E-09	0.00E+00	< 9.12E-09	2.76E-10	< 2.48E-09	< 1.39E-09
Acetophenone	98-86-2	0.00E+00	NA	2.35E-06	1.87E-06	0.00E+00	0.00E+00	3.35E-08	0.00E+00	1.05E-07
n-Nitrosomorpholine	59-89-2	< 6.00E-09	NA	< 5.05E-09	< 6.45E-09	< 2.59E-08	< 2.79E-08	< 5.04E-09	< 7.58E-09	< 4.24E-09
o-Toluidine	95-53-4	2.96E-07	NA	< 1.90E-09	< 2.42E-09	< 9.79E-09	0.00E+00	< 1.90E-09	9.80E-09	< 1.59E-09
N,N-Dimethylaniline	121-69-7	< 2.13E-09	NA	< 1.80E-09	< 2.24E-09	5.37E-09	< 9.86E-09	< 1.76E-09	< 2.53E-09	< 1.46E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 6.23E-09	NA	< 5.22E-09	< 6.67E-09	< 2.69E-08	< 2.88E-08	< 5.25E-09	< 7.84E-09	< 4.39E-09
o-Anisidine	90-04-0	< 4.03E-09	NA	< 3.35E-09	< 4.22E-09	< 1.67E-08	< 1.86E-08	< 3.35E-09	< 4.75E-09	< 2.78E-09
1,4-Phenylenediamine	106-50-3	< 5.59E-09	NA	< 4.67E-09	< 5.88E-09	< 2.30E-08	< 2.57E-08	< 4.66E-09	< 6.58E-09	< 3.85E-09
a-Terpineol	98-55-5	< 5.13E-09	NA	< 4.29E-09	< 0.00E+00	< 2.13E-08	< 2.36E-08	< 0.00E+00	4.18E-07	< 0.00E+00
N,N-Diethylaniline	91-66-7	1.41E-09	NA	< 1.38E-09	< 1.76E-09	< 7.10E-09	< 7.63E-09	< 1.38E-09	< 2.09E-09	< 1.16E-09
a,a,a-Trichlorotoluene	98-07-7	< 2.77E-09	NA	< 2.32E-09	< 2.94E-09	< 1.15E-08	< 1.28E-08	< 2.31E-09	< 3.27E-09	< 1.93E-09
Hydroquinone	123-31-9	< 4.83E-09	NA	< 4.04E-09	< 5.09E-09	0.00E+00	< 2.23E-08	< 4.04E-09	< 5.71E-09	< 3.34E-09
2-Chloroacetophenone	1341-24-8	< 1.71E-09	NA	< 1.42E-09	< 1.80E-09	< 7.10E-09	< 7.82E-09	< 1.42E-09	1.07E-08	< 1.18E-09
Biphenyl	92-52-4	2.31E-08	NA	2.83E-09	5.49E-09	1.06E-08	1.04E-08	1.15E-08	5.01E-09	9.15E-09
Trifluralin	1582-09-8	< 8.17E-09	NA	< 7.02E-09	< 8.96E-09	< 3.47E-08	< 3.89E-08	< 7.15E-09	< 1.06E-08	< 5.78E-09
4-Aminobiphenyl	92-67-1	< 2.09E-09	NA	< 1.66E-09	< 2.24E-09	< 8.25E-09	< 1.02E-08	< 1.87E-09	< 2.92E-09	4.11E-10
Pentachloronitrobenzene	82-68-8	< 1.67E-08	NA	< 1.33E-08	< 1.77E-08	< 6.51E-08	< 8.08E-08	< 1.48E-08	< 2.31E-08	< 1.17E-08
4-Nitrobiphenyl	92-93-3	< 5.32E-09	NA	< 4.22E-09	< 5.62E-09	< 2.07E-08	< 2.57E-08	< 4.66E-09	< 7.32E-09	< 3.73E-09
Benzidine	92-87-5	< 2.81E-09	NA	< 2.56E-09	< 3.64E-09	< 1.11E-08	< 1.62E-08	< 3.18E-09	< 4.57E-09	< 2.29E-09
4,4'-Methylenedianiline	101-77-9	< 4.64E-09	NA	< 4.22E-09	< 6.06E-09	< 1.84E-08	< 2.68E-08	< 5.25E-09	< 7.58E-09	< 3.80E-09
Dimethylaminoazobenzene	60-11-7	< 4.48E-09	NA	< 4.08E-09	< 5.84E-09	< 1.79E-08	< 2.59E-08	< 5.08E-09	< 7.32E-09	< 3.67E-09
3,3'-Dimethylbenzidine	119-93-7	9.77E-09	NA	< 2.14E-09	< 3.12E-09	5.43E-08	5.90E-08	< 2.69E-09	5.01E-09	< 1.95E-09
3,3'-Dimethoxybenzidine	119-90-4	< 5.43E-09	NA	< 4.94E-09	< 7.11E-09	< 2.17E-08	< 3.15E-08	< 6.18E-09	< 8.88E-09	< 4.47E-09
Methylene bis-chloroaniline	101-14-4	< 9.42E-09	NA	< 8.54E-09	< 1.23E-08	< 3.74E-08	< 5.43E-08	< 1.07E-08	< 1.53E-08	< 7.71E-09
3-Furaldehyde	498-60-2	< 6.27E-09	NA	< 5.25E-09	< 6.72E-09	< 2.69E-08	< 2.90E-08	< 5.25E-09	< 7.88E-09	< 4.42E-09
2-Furaldehyde	98-01-1	2.08E-07	NA	0.00E+00	3.69E-09	0.00E+00	0.00E+00	3.04E-09	1.08E-07	1.14E-07
Cyclohexylamine	108-91-8	< 2.26E-08	NA	< 1.90E-08	< 2.43E-08	< 9.75E-08	< 1.05E-07	2.28E-07	< 2.85E-08	< 1.60E-08
N-Nitrosodiethylamine	55-18-5	< 6.61E-09	NA	< 5.57E-09	< 7.11E-09	< 2.84E-08	< 3.07E-08	< 5.60E-09	< 8.36E-09	< 4.68E-09
Cyclohexanone	108-94-1	4.83E-08	NA	1.88E-08	2.63E-08	2.23E-08	4.93E-08	5.13E-08	1.94E-08	7.74E-08
1,3-Cyclooctadiene	1700-10-3	< 3.69E-09	NA	2.01E-07	2.29E-07	< 1.57E-08	< 1.71E-08	< 3.11E-09	< 4.62E-09	< 2.60E-09
1,5-Cyclooctadiene	111-78-4	< 8.28E-09	NA	< 6.95E-09	< 8.87E-09	< 3.55E-08	< 3.83E-08	< 6.98E-09	< 1.04E-08	< 5.83E-09
Camphene	79-92-5	3.35E-08	NA	< 3.66E-09	< 4.65E-09	< 1.86E-08	< 2.01E-08	< 3.66E-09	2.68E-08	< 3.06E-09
Benzaldehyde	100-52-7	1.06E-07	NA	1.12E-08	1.35E-08	1.32E-08	1.06E-08	1.30E-08	5.74E-08	1.10E-07
Benzonitrile	100-47-0	2.89E-09	NA	< 1.24E-09	< 1.58E-09	< 6.33E-09	< 6.89E-09	< 1.24E-09	< 1.83E-09	< 1.03E-09
Isooctanol	26952-21-6	< 4.34E-08	NA	2.51E-07	< 4.65E-08	< 1.87E-07	< 2.01E-07	< 3.66E-08	< 5.46E-08	< 3.06E-08
1,2,4-Trimethylbenzene	95-63-6	1.84E-07	NA	6.22E-09	2.09E-08	1.71E-08	1.86E-08	1.41E-08	6.05E-08	6.62E-08
3-Methylstyrene	100-80-1	< 2.24E-09	NA	< 1.87E-09	1.04E-08	< 9.60E-09	< 1.04E-08	1.15E-08	< 2.83E-09	< 1.57E-09
4-Methylstyrene	622-97-9	< 2.36E-09	NA	< 1.97E-09	4.65E-09	< 1.02E-08	< 1.10E-08	5.29E-09	< 2.96E-09	< 1.67E-09
4-Chlorostyrene	1073-67-2	< 2.62E-09	NA	< 2.21E-09	< 2.81E-09	< 1.13E-08	< 1.23E-08	< 2.21E-09	< 3.31E-09	< 1.85E-09
1-Dodecene	112-41-4	< 1.50E-08	NA	4.87E-08	7.50E-08	< 6.20E-08	< 6.92E-08	< 1.25E-08	< 1.77E-08	< 1.03E-08
Phthalimide	85-41-6	< 7.87E-09	NA	< 6.78E-09	< 8.65E-09	< 3.36E-08	< 3.74E-08	< 6.87E-09	< 1.02E-08	< 5.58E-09
Diphenylamine	122-39-4	3.28E-07	NA	5.30E-08	4.29E-08	3.30E-08	1.97E-08	2.55E-08	7.17E-08	2.71E-08
Total Detected (lbs/lb rubber)		5.33E-06	NA	4.19E-06	2.87E-06	4.08E-06	6.04E-06	1.57E-06	3.17E-06	1.87E-06
Total with Nondetects (lbs/lb rubber)		< 3.33E-04	NA	< 2.44E-04	< 1.68E-04	< 2.69E-04	< 3.84E-04	< 9.42E-05	< 1.87E-04	< 1.09E-04

* Average totals for Runs A and B presented in Table B.2.1

TRC

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (µg/m³)											
1-Heptene	592-76-7	< 1.17	NA	12.84	641.83	< 2.33	< 2.33	64.18	28.01	< 2.92	< 1.17
1-Hexene	592-41-6	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	14.59	< 2.92	< 1.17
1-Octene	111-60-0	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	3.21	15.17	< 1.17
1-Pentene	109-67-1	< 1.17	NA	< 1.17	< 5.83	75.85	< 70.02	24.51	< 1.17	< 2.92	< 1.17
1,1-Dichloroethane	00075-34-3	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,1-Dichloroethene	00075-35-4	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,1,1-Trichloroethane	00071-55-6	4.90	NA	7.90	< 8.00	< 16.00	< 16.00	4.40	< 8.00	< 20.00	3.30
1,1,2-Trichloroethane	00079-00-5	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,1,2,2-Tetrachloroethane	00079-34-5	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,2-Dibromo-3-Chloropropane	00096-12-8	< 16.00	NA	< 16.00	< 16.00	< 32.00	< 32.00	< 16.00	< 16.00	< 40.00	< 16.00
1,2-Dibromoethane	00106-93-4	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,2-Dichlorobenzene	0095-50-1	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,2-Dichloroethane	00107-06-2	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,2-Dichloropropane	00078-87-5	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,2,4-Trimethylbenzene	95-63-6	< 5.56	NA	4110.90	2277.66	61.11	< 66.66	< 5.56	13.33	< 12.50	< 5.56
1,2,4-trimethylbenzene + C10H18	95-63-6	300.00	NA								
1,3-Butadiene	106-99-0	45.56	NA	95.63	< 5.63	56.25	< 73.13	30.38	25.31	< 2.81	29.25
1,3-Dichlorobenzene	00541-73-1	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,3,5-Trimethylbenzene	108-67-8	66.66	NA	94.44	< 27.78	26.11	< 31.67	32.22	< 1.11	< 13.89	< 1.11
1,4-Dichlorobenzene	00106-46-7	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-5	< 5.58	NA	< 5.58	< 27.92	< 11.17	< 11.17	< 5.58	< 5.58	< 13.96	< 5.58
1,4-Dioxane	00123-91-1	< 32.00	NA	< 32.00	< 32.00	< 64.00	< 64.00	< 32.00	< 32.00	< 80.00	< 32.00
2-Butanone	00078-93-3	14.00	NA	140.00	83.00	120.00	130.00	100.00	130.00	39.00	5.40
2-Hexanone	00591-78-6	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
2-Methyl-1-butene	563-46-2	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	70.02	< 1.17	< 2.92	< 1.17
2-Methyl-2-butene	513-35-9	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	< 1.17	< 2.92	< 1.17
2-Methyl-2-pentene	624-27-4	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	< 1.17	< 2.92	< 1.17
2-Methylheptane	592-27-8	< 1.19	NA	19.60	< 5.94	< 2.38	< 2.38	< 1.19	< 1.19	65.34	17.22
2-Methylhexane	591-76-4	< 1.19	NA	35.73	589.50	< 2.38	< 2.38	22.63	29.18	49.42	12.50
2-Methylpentane	107-83-5	29.87	NA	28.08	< 5.97	51.38	< 53.77	< 1.19	501.86	< 2.99	< 1.19
2,2-Dimethylbutane	75-83-2	< 1.19	NA	< 1.19	< 5.97	< 2.39	< 2.39	12.55	31.07	< 2.99	< 1.19
2,2-Dimethylpropane	463-82-1	< 1.20	NA	< 1.20	< 6.00	< 2.40	< 2.40	< 1.20	< 1.20	< 3.00	< 1.20
2,3-Dimethylpentane	565-59-3	< 1.19	NA	< 1.19	< 5.95	< 2.38	< 9.53	< 1.19	10.12	< 2.98	6.55
2,3,4-Trimethylpentane	565-75-3	< 1.19	NA	< 1.19	< 5.94	< 2.38	< 2.38	< 1.19	65.34	59.40	< 1.19
2,4-Dimethylhexane	589-43-5	< 1.19	NA	17.82	160.37	41.58	< 51.67	< 1.19	19.01	< 2.97	< 1.19

TRC

* = Average total of Runs A & B presented in Table B.2-1

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (µg/m³)											
3-Methylhexane	589-34-4	23.22	NA	43.47	2858.19	18.46	< 32.75	16.08	83.36	101.23	26.80
3-Methylpentane	96-14-0	< 1.19	NA	28.08	< 5.97	25.09	< 44.21	14.94	1613.12	< 2.99	6.57
4-Methyl-1-pentene	691-37-2	< 1.17	NA	< 1.17	< 5.83	28.59	< 35.01	< 1.17	< 1.17	< 2.92	< 1.17
4-Methyl-2-Pentanone	00108-10-1	420.00	NA	130.00	2400.00	860.00	880.00	1400.00	54.00	62.00	20.00
Acetone	00067-64-1	85.00	NA	3600.00	420.00	742.00	1032.00	570.00	142.00	120.00	46.00
Acetonitrile	01722-09-4	< 16.00	NA	< 16.00	< 16.00	69.00	58.00	42.00	27.00	< 40.00	< 16.00
Acetylene	74-86-2	< 1.08	NA	< 1.08	< 5.42	< 2.17	< 2.17	< 1.08	< 1.08	< 2.71	< 1.08
Acrolein	00107-02-8	27.00	NA	37.00	40.00	600.00	16.00	8.50	16.00	< 40.00	< 16.00
Acrylonitrile	00107-13-1	7.10	NA	< 16.00	< 16.00	< 32.00	< 32.00	7.50	5.60	< 40.00	10.00
Allyl Chloride	00107-05-1	< 16.00	NA	< 16.00	< 16.00	< 32.00	< 32.00	< 16.00	29.00	< 40.00	< 16.00
a-Pinene	7785-70-8	90.67	NA	85.01	< 5.67	< 2.27	< 2.27	< 1.13	29.47	79.34	28.34
Benzene	71-43-2	29.24	NA	34.12	102.89	27.08	< 24.91	21.66	16.79	< 2.71	15.16
Benzene	71-43-2	15.00	NA	16.00	14.00	9.50	8.50	10.00	22.50	9.30	9.30
Benzyl Chloride	00100-44-7	< 16.00	NA	< 16.00	< 16.00	< 32.00	< 32.00	< 16.00	< 16.00	< 40.00	< 16.00
b-Pinene	18172-67-3	< 5.67	NA	< 5.67	< 28.34	< 11.33	< 11.33	< 5.67	27.77	< 14.17	< 5.67
Bromodichloromethane	00075-27-4	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Bromoform	00075-25-2	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Bromomethane	00074-83-9	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Butane			NA								
C10H14 Alkyl Sustituted Benzene			NA	600.00	500.00						
C10H18 Cyclic Hydrocarbon A			NA		800.00			50.00			
C10H18 Cyclic Hydrocarbon B		800.00	NA	2000.00	1000.00						
C10H18 Cyclic Hydrocarbon + Decane		700.00	NA								
C10H20 Branched Alkene			NA							70.00	
C11H22 Branched Alkene			NA							70.00	
C6H12 Alkene			NA					60.00			
C8H12 Cyclic Alkene			NA		200.00						
C8H16 Branched Alkene			NA	500.00	200.00						
C8H18 Branched Alkane			NA						70.00		
C9H10 Alkyl Substituted Benzene			NA	300.00	300.00						60.00
C9H12 Alkyl Substituted Benzene			NA			60.00	70.00		200.00		200.00
C9H12 Cyclic Hydrocarbon A			NA							2000.00	900.00
C9H12 Cyclic Hydrocarbon B			NA							1000.00	100.00
C9H18 Branched Alkene			NA						100.00		40.00
C9H20 Branched Alkane			NA						90.00		
Carbon Disulfide	00075-15-0	36.00	NA	50.00	27.00	16.00	16.00	9.70	< 8.00	33.00	< 8.00
Carbon Tetrachloride	00056-23-5	< 8.00	NA	4.40	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Chlorobenzene	00108-90-7	< 8.00	NA	< 8.00	< 8.00	< 16.00	4.50	< 8.00	< 8.00	< 20.00	< 8.00
Chlorodibromomethane	00124-48-1	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Chloroethane	00075-00-3	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Chloroform	00067-66-3	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00

* = Average total of Runs A & B presented in Table B.2-1

TRC

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (µg/m³)											
Chloromethane	00074-87-3	16.00	NA	5.80	7.60	< 16.00	< 16.00	< 8.00	4.00	10.00	< 8.00
cis-1,2-Dichloroethene	00156-59-2	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
cis-1,3-Dichloropropene	10061-01-5	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
cis-2-Butene	590-18-1	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	< 1.17	< 2.92	< 1.17
cis-2-Hexene	7688-21-3	< 1.17	NA	< 1.17	< 5.83	47.85	< 2.33	29.17	< 1.17	< 2.92	< 1.17
cis-2-Pentene	627-20-3	43.76	NA	49.60	875.22	46.68	< 56.01	39.09	51.93	54.85	30.92
Cumene	98-82-8	50.55	NA	155.55	61.11	< 2.22	< 2.22	< 1.11	166.66	1944.34	722.18
Cyclobutane			NA	200.00	100.00	200.00	100.00	200.00			
Cyclohexane	110-82-7	16.92	NA	10.50	1808.78	28.59	< 51.93	19.25	186.71	256.73	43.18
Cyclooctadiene		100.00	NA	300.00						100.00	
Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-	17.56	NA	16.26	91.03	< 2.60	< 2.60	110.54	84.53	650.21	91.03
Cyclopentene	142-29-0	< 1.13	NA	< 1.13	107.67	30.60	< 28.90	56.67	< 1.13	< 2.83	< 1.13
Decane			NA								40.00
Dichlorodifluoromethane	00075-71-8	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
d-Limonene	5989-27-5	49.30	NA	33.44	< 28.34	< 11.33	< 11.33	< 5.67	42.50	< 14.17	< 5.67
Dodecane		70.00	NA								
Epichlorohydrin	00106-89-8	< 16.00	NA	< 16.00	< 16.00	< 32.00	< 32.00	< 16.00	< 16.00	< 40.00	< 16.00
Ethane	74-84-0	< 1.25	NA	< 1.25	< 6.25	< 2.50	< 2.50	< 1.25	< 1.25	< 3.13	< 1.25
Ethylacetylene	107-00-6	< 1.13	NA	< 1.13	< 5.63	< 2.25	< 2.25	< 1.13	< 1.13	< 2.81	< 1.13
Ethylbenzene	100-41-4	25.95	NA	121.45	< 5.52	16.01	< 41.95	< 1.10	55.20	< 2.76	< 1.10
Ethylbenzene	100-41-4	16.00	NA	60.00	17.00	10.00	33.00	5.70	9.40	< 20.00	5.30
Ethylene	74-85-1	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	< 1.17	< 2.92	< 1.17
Heptane			NA				40.00				
Hexachlorobutadiene	00087-68-3	< 16.00	NA	< 16.00	< 16.00	< 32.00	< 32.00	< 16.00	< 16.00	< 40.00	< 16.00
Isobutane	75-28-5	175.29	NA	< 1.21	< 6.04	< 2.42	< 2.42	< 1.21	< 1.21	< 3.02	< 1.21
Isobutylene + 1-Butene	115-11-7/106-9	< 1.17	NA	93.36	< 5.83	99.19	< 93.36	< 1.17	14.59	< 2.92	< 1.17
Isobutyraldehyde			NA			50.00					
Isooctane	540-84-1	24.35	NA	22.57	231.64	< 2.38	< 2.38	< 1.19	< 1.19	< 2.97	< 1.19
Isopentane	78-78-4	108.04	NA	4922.03	< 6.00	1260.52	< 1680.69	< 1.20	246.10	< 3.00	< 1.20
Isoprene	78-79-5	< 1.13	NA	19.27	< 5.67	< 10.20	< 11.90	< 1.13	< 1.13	< 2.83	< 1.13
m & p-Xylenes	108-38-3/106-4	57.00	NA	210.00	54.00	34.00	120.00	19.00	22.00	16.00	15.00
Methyl Hexane			NA				30.00		70.00	100.00	
Methyl Pentane			NA						1000.00	1400.00	260.00
Methyl Vinyl Ketone			NA			60.00	50.00	70.00			
Methylacetylene	74-99-7	< 1.08	NA	< 1.08	< 5.42	< 2.17	< 2.17	< 1.08	< 1.08	< 2.71	< 1.08
Methylcyclohexane	108-87-2	40.84	NA	250.90	1633.74	99.19	< 99.19	< 1.17	14.59	< 2.92	11.09
Methylcyclopentane	96-37-7	26.26	NA	27.42	157.54	26.84	< 75.85	33.26	5134.60	7001.73	991.91

* = Average total of Runs A & B presented in Table B.2-1

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (µg/m³)											
Methylene Chloride	00079-09-2	37.00	NA	37.00	49.00	< 16.00	< 16.00	47.00	< 8.00	190.00	36.00
m-Ethyltoluene	620-14-4	66.66	NA	< 1.11	155.55	< 2.22	< 2.22	< 1.11	< 1.11	< 2.78	< 1.11
m-Xylene + p-Xylene	108-38-3/106-4	115.93	NA	402.98	< 5.52	37.54	< 149.05	20.43	53.55	< 2.76	28.71
n-Butane	106-97-8	55.00	NA	47.15	< 6.04	27.80	< 25.99	< 1.21	< 1.21	< 3.02	< 1.21
n-Decane	124-18-5	260.42	NA	52.68	< 29.59	< 11.84	< 12.43	< 5.92	13.61	< 14.80	< 5.92
n-Heptane	142-82-5	20.84	NA	51.21	3155.92	27.39	< 41.09	20.25	27.99	50.61	< 1.19
n-Hexane	110-54-3	65.72	NA	125.47	< 5.97	113.52	< 179.24	13.14	4660.13	5974.53	776.69
n-Nonane	111-84-2	148.20	NA	44.46	< 5.93	< 2.37	< 2.37	< 1.19	< 1.19	< 2.96	< 1.19
n-Octane	111-65-9	11.88	NA	17.22	< 5.94	< 2.38	< 2.38	< 1.19	30.29	55.83	< 1.19
Nonane		200.00	NA								
n-Pentane	109-66-0	< 1.20	NA	38.42	< 6.00	28.81	< 19.81	15.61	< 1.20	< 3.00	< 1.20
n-Propylbenzene	103-65-1	51.66	NA	94.44	< 5.56	< 2.22	< 2.22	< 1.11	< 1.11	< 2.78	< 1.11
o-Ethyltoluene	622-96-8	42.22	NA	288.87	1111.05	40.00	< 30.55	< 5.56	32.78	< 13.89	22.22
o-Xylene	95-47-6	220.81	NA	204.25	66.24	< 11.04	< 23.19	< 1.10	30.91	< 2.76	14.90
p-Cymene	99-87-6	134.00	NA	78.17	< 27.92	< 11.17	< 11.17	< 5.58	< 5.58	< 13.96	< 5.58
Pentane			NA					80.00			
p-Ethyltoluene	622-96-8	216.66	NA	449.98	< 5.56	< 2.22	< 2.22	< 1.11	< 1.11	< 2.78	< 1.11
Propane	74-98-6	103.94	NA	13.45	< 6.11	< 2.45	< 2.45	60.53	< 1.22	< 3.06	< 1.22
Propylene	115-07-1	< 1.17	NA	40.26	< 5.83	< 2.33	< 2.33	< 1.17	< 1.17	< 2.92	< 1.17
Propylene Oxide	00075-56-9	< 16.00	NA	< 16.00	< 16.00	< 32.00	< 32.00	< 16.00	260.00	340.00	< 16.00
Styrene	100-42-5	812.33	NA	920.64	222.04	13.00	< 15.70	< 1.08	92.06	102.89	35.20
t-Butyl Methyl Ether	01634-04-4	< 16.00	NA	< 16.00	< 16.00	< 32.00	< 32.00	< 16.00	< 16.00	< 40.00	< 16.00
Tetra Hydro Furan	00127-18-4		NA			100.00		50.00			
Tetrachloroethene	00127-18-4	15.00	NA	6.50	4.40	8.60	7.90	22.00	12.00	22.00	14.00
Toluene	108-88-3	109.51	NA	246.39	9308.20	131.41	< 208.07	109.51	147.84	71.18	54.75
trans-1,2-Dichloroethene	00156-60-5	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
trans-1,2-Dichloropropene	10061-01-5	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
trans-2-Butene	624-64-6	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	< 1.17	< 2.92	< 1.17
trans-2-Hexene	4050-45-7	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	< 1.17	< 2.92	< 1.17
trans-2-Pentene	646-04-8	< 1.17	NA	< 1.17	< 5.83	< 2.33	< 2.33	< 1.17	< 1.17	< 2.92	< 1.17
Trichloroethene	00079-01-6	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Trichlorofluoromethane	00075-69-4	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Trichlortrifluoroethane	00076-13-1	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Undecane		200.00	NA								
Vinyl Acetate	00108-05-4	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Vinyl Chloride	00075-01-4	< 8.00	NA	< 8.00	< 8.00	< 16.00	< 16.00	< 8.00	< 8.00	< 20.00	< 8.00
Total Detected		6419.84	NA	21648.66	31832.17	5425.53	2595.90	3592.40	15861.60	22114.10	4729.49
Total with non-detects		< 6864.87	NA	< 22087.85	< 32657.19	< 6412.75	< 6872.22	< 4059.97	< 16275.63	< 23410.21	< 5235.25

* = Average total of Runs A & B presented in Table B.2-1

TRC

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD Large	TREAD Small	SBR Large	SBR Small	SDW Large-A*	SDW Large-B*	SDW Small	EPDM Large	EPDM Small-A*	EPDM Small-B*
Speciated Vol. (lb/hr)											
1-Heptene	592-76-7	< 3.42E-06	NA	3.96E-05	5.75E-05	< 8.57E-06	< 8.09E-06	5.72E-06	8.76E-05	< 2.60E-07	< 1.04E-07
1-Hexene	592-41-6	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	4.56E-05	< 2.60E-07	< 1.04E-07
1-Octene	111-60-0	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	1.00E-05	1.35E-06	< 1.04E-07
1-Pentene	109-67-1	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	2.78E-04	< 2.43E-04	2.18E-06	< 3.65E-06	< 2.60E-07	< 1.04E-07
1,1-Dichloroethane	00075-34-3	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,1-Dichloroethene	00075-35-4	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,1,1-Trichloroethane	00071-55-6	1.44E-05	NA	2.44E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	3.92E-07	< 2.50E-05	< 1.78E-06	2.94E-07
1,1,2-Trichloroethane	00079-00-5	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,1,2,2-Tetrachloroethane	00079-34-5	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,2-Dibromo-3-Chloropropane	00096-12-8	< 4.69E-05	NA	< 4.93E-05	< 1.43E-06	< 1.17E-04	< 1.11E-04	< 1.43E-06	< 5.00E-05	< 3.57E-06	< 1.43E-06
1,2-Dibromoethane	00106-93-4	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,2-Dichlorobenzene	0095-50-1	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,2-Dichloroethane	00107-06-2	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,2-Dichloropropane	00078-87-5	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,2,4-Trimethylbenzene	95-63-6	< 1.63E-05	NA	1.27E-02	2.04E-04	2.24E-04	< 2.31E-04	< 4.95E-07	4.17E-05	< 1.11E-06	< 4.95E-07
1,2,4-trimethylbenzene + C10H18	95-63-6	8.79E-04	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
1,3-Butadiene	106-99-0	1.33E-04	NA	2.95E-04	< 5.04E-07	2.07E-04	< 2.53E-04	2.71E-06	7.92E-05	< 2.51E-07	2.61E-06
1,3-Dichlorobenzene	00541-73-1	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,3,5-Trimethylbenzene	108-67-8	1.95E-04	NA	2.91E-04	< 2.49E-06	9.59E-05	< 1.10E-04	2.87E-06	< 3.48E-06	< 1.24E-06	< 9.91E-08
1,4-Dichlorobenzene	00106-46-7	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-5	< 1.64E-05	NA	< 1.72E-05	< 2.50E-06	< 4.10E-05	< 3.87E-05	< 4.98E-07	< 1.75E-05	< 1.24E-06	< 4.98E-07
1,4-Dioxane	00123-91-1	< 9.37E-05	NA	< 9.87E-05	< 2.87E-06	< 2.35E-04	< 2.22E-04	< 2.85E-06	< 1.00E-04	< 7.13E-06	< 2.85E-06
2-Butanone	00078-93-3	4.10E-05	NA	4.32E-04	7.43E-06	4.41E-04	4.50E-04	8.92E-06	4.07E-04	3.48E-06	4.81E-07
2-Hexanone	00591-78-6	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
2-Methyl-1-butene	563-46-2	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	6.24E-06	< 3.65E-06	< 2.60E-07	< 1.04E-07
2-Methyl-2-butene	513-35-9	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
2-Methyl-2-pentene	624-27-4	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
2-Methylheptane	592-27-8	< 3.48E-06	NA	6.04E-05	< 5.32E-07	< 8.72E-06	< 8.23E-06	< 1.06E-07	< 3.72E-06	5.83E-06	1.54E-06
2-Methylhexane	591-76-4	< 3.49E-06	NA	1.10E-04	5.28E-05	< 8.74E-06	< 8.25E-06	2.02E-06	9.13E-05	4.41E-06	1.11E-06
2-Methylpentane	107-83-5	8.75E-05	NA	8.66E-05	< 5.35E-07	1.89E-04	< 1.86E-04	< 1.07E-07	1.57E-03	< 2.66E-07	< 1.07E-07
2,2-Dimethylbutane	75-83-2	< 3.50E-06	NA	< 3.68E-06	< 5.35E-07	< 8.77E-06	< 8.28E-06	1.12E-06	9.72E-05	< 2.66E-07	< 1.07E-07
2,2-Dimethylpropane	463-82-1	< 3.52E-06	NA	< 3.70E-06	< 5.37E-07	< 8.81E-06	< 8.32E-06	< 1.07E-07	< 3.76E-06	< 2.68E-07	< 1.07E-07
2,3-Dimethylpentane	565-59-3	< 3.49E-06	NA	< 3.67E-06	< 5.33E-07	< 8.74E-06	< 3.30E-05	< 1.06E-07	3.17E-05	< 2.65E-07	5.84E-07
2,3,4-Trimethylpentane	565-75-3	< 3.48E-06	NA	< 3.66E-06	< 5.32E-07	< 8.72E-06	< 8.23E-06	< 1.06E-07	2.04E-04	5.30E-06	< 1.06E-07
2,4-Dimethylhexane	589-43-5	< 3.48E-06	NA	5.49E-05	1.44E-05	1.53E-04	< 1.79E-04	< 1.06E-07	5.95E-05	< 2.65E-07	< 1.06E-07

* = Average total of Runs A & B presented in Table B.2-1

TRC

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (lb/hr)											
3-Methylhexane	589-34-4	6.80E-05	NA	1.34E-04	2.56E-04	6.78E-05	< 1.13E-04	1.43E-06	2.61E-04	9.03E-06	2.39E-06
3-Methylpentane	96-14-0	< 3.50E-06	NA	8.66E-05	< 5.35E-07	9.21E-05	< 1.53E-04	1.33E-06	5.05E-03	< 2.66E-07	5.86E-07
4-Methyl-1-pentene	691-37-2	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	1.05E-04	< 1.21E-04	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
4-Methyl-2-Pentanone	00108-10-1	1.23E-03	NA	4.01E-04	2.15E-04	3.16E-03	3.05E-03	1.25E-04	1.69E-04	5.53E-06	1.78E-06
Acetone	00067-64-1	2.49E-04	NA	1.11E-02	3.76E-05	2.72E-03	3.58E-03	5.08E-05	4.44E-04	1.07E-05	4.10E-06
Acetonitrile	01722-09-4	< 4.69E-05	NA	< 4.93E-05	< 1.43E-06	2.53E-04	2.01E-04	3.74E-06	8.45E-05	< 3.57E-06	< 1.43E-06
Acetylene	74-86-2	< 3.17E-06	NA	< 3.34E-06	< 4.85E-07	< 7.95E-06	< 7.51E-06	< 9.66E-08	< 3.39E-06	< 2.41E-07	< 9.66E-08
Acrolein	00107-02-8	7.91E-05	NA	1.14E-04	3.58E-06	2.20E-03	5.54E-05	7.58E-07	5.00E-05	< 3.57E-06	< 1.43E-06
Acrylonitrile	00107-13-1	2.08E-05	NA	< 4.93E-05	< 1.43E-06	< 1.17E-04	< 1.11E-04	6.69E-07	1.75E-05	< 3.57E-06	8.92E-07
Allyl Chloride	00107-05-1	< 4.69E-05	NA	< 4.93E-05	< 1.43E-06	< 1.17E-04	< 1.11E-04	< 1.43E-06	9.07E-05	< 3.57E-06	< 1.43E-06
a-Pinene	7785-70-8	2.66E-04	NA	2.62E-04	< 5.07E-07	< 8.32E-06	< 7.85E-06	< 1.01E-07	9.22E-05	7.07E-06	2.53E-06
Benzene	71-43-2	8.57E-05	NA	1.05E-04	9.21E-06	9.94E-05	< 8.63E-05	1.93E-06	5.25E-05	< 2.41E-07	1.35E-06
Benzene	71-43-2	4.39E-05	NA	4.93E-05	1.25E-06	3.49E-05	2.95E-05	8.92E-07	7.04E-05	8.29E-07	8.29E-07
Benzyl Chloride	00100-44-7	< 4.69E-05	NA	< 4.93E-05	< 1.43E-06	< 1.17E-04	< 1.11E-04	< 1.43E-06	< 5.00E-05	< 3.57E-06	< 1.43E-06
b-Pinene	18172-67-3	< 1.66E-05	NA	< 1.75E-05	< 2.54E-06	< 4.16E-05	< 3.93E-05	< 5.05E-07	8.69E-05	< 1.26E-06	< 5.05E-07
Bromodichloromethane	00075-27-4	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Bromoform	00075-25-2	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Bromomethane	00074-83-9	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Butane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H14 Alkyl Sustituted Benzene		< 0.00E+00	NA	1.85E-03	4.48E-05	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H18 Cyclic Hydrocarbon A		< 0.00E+00	NA	< 0.00E+00	7.16E-05	< 0.00E+00	< 0.00E+00	4.46E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H18 Cyclic Hydrocarbon B		2.34E-03	NA	6.17E-03	8.95E-05	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H18 Cyclic Hydrocarbon + Decane		2.05E-03	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H20 Branched Alkene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	6.24E-06	< 0.00E+00
C11H22 Branched Alkene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	6.24E-06	< 0.00E+00
C6H12 Alkene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	5.35E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00
C8H12 Cyclic Alkene		< 0.00E+00	NA	< 0.00E+00	1.79E-05	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C8H16 Branched Alkene		< 0.00E+00	NA	1.54E-03	1.79E-05	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C8H18 Branched Alkane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	2.19E-04	< 0.00E+00	< 0.00E+00
C9H10 Alkyl Substituted Benzene		< 0.00E+00	NA	9.25E-04	2.69E-05	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	5.35E-06
C9H12 Alkyl Substituted Benzene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	2.20E-04	2.43E-04	< 0.00E+00	6.26E-04	< 0.00E+00	1.78E-05
C9H12 Cyclic Hydrocarbon A		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	1.78E-04	8.02E-05
C9H12 Cyclic Hydrocarbon B		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	8.92E-05	8.92E-06
C9H18 Branched Alkene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	3.13E-04	< 0.00E+00	3.57E-06
C9H20 Branched Alkane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	2.82E-04	< 0.00E+00	< 0.00E+00
Carbon Disulfide	00075-15-0	1.05E-04	NA	1.54E-04	2.42E-06	5.87E-05	5.54E-05	8.65E-07	< 2.50E-05	2.94E-06	< 7.13E-07
Carbon Tetrachloride	00056-23-5	< 2.34E-05	NA	1.36E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Chlorobenzene	00108-90-7	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	1.56E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Chlorodibromomethane	00124-48-1	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Chloroethane	00075-00-3	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Chloroform	00067-66-3	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07

* = Average total of Runs A & B presented in Table B.2-1

TRC

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (lb/hr)											
Chloromethane	00074-87-3	4.69E-05	NA	1.79E-05	6.80E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	1.25E-05	8.92E-07	< 7.13E-07
cis-1,2-Dichloroethene	00156-59-2	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
cis-1,3-Dichloropropene	10061-01-5	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
cis-2-Butene	590-18-1	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
cis-2-Hexene	7688-21-3	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	1.76E-04	< 8.09E-06	2.60E-06	< 3.65E-06	< 2.60E-07	< 1.04E-07
cis-2-Pentene	627-20-3	1.28E-04	NA	1.53E-04	7.84E-05	1.71E-04	< 1.94E-04	3.49E-06	1.62E-04	4.89E-06	2.76E-06
Cumene	98-82-8	1.48E-04	NA	4.80E-04	5.47E-06	< 8.16E-06	< 7.70E-06	< 9.91E-08	5.21E-04	1.73E-04	6.44E-05
Cyclobutane		< 0.00E+00	NA	6.17E-04	8.95E-06	7.34E-04	3.47E-04	1.78E-05	< 0.00E+00	< 0.00E+00	< 0.00E+00
Cyclohexane	110-82-7	4.96E-05	NA	3.24E-05	1.62E-04	1.05E-04	< 1.80E-04	1.72E-06	5.84E-04	2.29E-05	3.85E-06
Cyclooctadiene		2.93E-04	NA	9.25E-04	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	8.92E-06	< 0.00E+00
Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-	5.14E-05	NA	5.01E-05	8.15E-06	< 9.55E-06	< 9.01E-06	9.86E-06	2.64E-04	5.80E-05	8.12E-06
Cyclopentene	142-29-0	< 3.32E-06	NA	< 3.49E-06	9.64E-06	1.12E-04	< 1.00E-04	5.05E-06	< 3.55E-06	< 2.53E-07	< 1.01E-07
Decane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	3.57E-06
Dichlorodifluoromethane	00075-71-8	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
d-Limonene	5989-27-5	1.44E-04	NA	1.03E-04	< 2.54E-06	< 4.16E-05	< 3.93E-05	< 5.05E-07	1.33E-04	< 1.26E-06	< 5.05E-07
Dodecane		2.05E-04	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
Epichlorohydrin	00106-89-8	< 4.69E-05	NA	< 4.93E-05	< 1.43E-06	< 1.17E-04	< 1.11E-04	< 1.43E-06	< 5.00E-05	< 3.57E-06	< 1.43E-06
Ethane	74-84-0	< 3.66E-06	NA	< 3.86E-06	< 5.60E-07	< 9.18E-06	< 8.67E-06	< 1.12E-07	< 3.91E-06	< 2.79E-07	< 1.12E-07
Ethylacetylene	107-00-6	< 3.30E-06	NA	< 3.47E-06	< 5.04E-07	< 8.26E-06	< 7.80E-06	< 1.00E-07	< 3.52E-06	< 2.51E-07	< 1.00E-07
Ethylbenzene	100-41-4	7.60E-05	NA	3.74E-04	< 4.94E-07	5.88E-05	< 1.45E-04	< 9.84E-08	1.73E-04	< 2.46E-07	< 9.84E-08
Ethylbenzene	100-41-4	4.69E-05	NA	1.85E-04	1.52E-06	3.67E-05	1.14E-04	5.08E-07	2.94E-05	< 1.78E-06	4.73E-07
Ethylene	74-85-1	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
Heptane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	1.39E-04	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
Hexachlorobutadiene	00087-68-3	< 4.69E-05	NA	< 4.93E-05	< 1.43E-06	< 1.17E-04	< 1.11E-04	< 1.43E-06	< 5.00E-05	< 3.57E-06	< 1.43E-06
Isobutane	75-28-5	5.13E-04	NA	< 3.73E-06	< 5.41E-07	< 8.88E-06	< 8.38E-06	< 1.08E-07	< 3.78E-06	< 2.69E-07	< 1.08E-07
Isobutylene + 1-Butene	115-11-7/106-9	< 3.42E-06	NA	2.88E-04	< 5.22E-07	3.64E-04	< 3.23E-04	< 1.04E-07	4.56E-05	< 2.60E-07	< 1.04E-07
Isobutyraldehyde		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	1.84E-04	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
Isooctane	540-84-1	7.13E-05	NA	6.96E-05	2.07E-05	< 8.72E-06	< 8.23E-06	< 1.06E-07	< 3.72E-06	< 2.65E-07	< 1.06E-07
Isopentane	78-78-4	3.17E-04	NA	1.52E-02	< 5.37E-07	4.63E-03	< 5.82E-03	< 1.07E-07	7.70E-04	< 2.68E-07	< 1.07E-07
Isoprene	78-79-5	< 3.32E-06	NA	5.94E-05	< 5.07E-07	< 3.74E-05	< 4.12E-05	< 1.01E-07	< 3.55E-06	< 2.53E-07	< 1.01E-07
m & p-Xylenes	108-38-3/106-4	1.67E-04	NA	6.47E-04	4.83E-06	1.25E-04	4.16E-04	1.69E-06	6.88E-05	1.43E-06	1.34E-06
Methyl Hexane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	1.04E-04	< 0.00E+00	2.19E-04	8.92E-06	< 0.00E+00
Methyl Pentane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	3.13E-03	1.25E-04	2.32E-05
Methyl Vinyl Ketone		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	2.20E-04	1.73E-04	6.24E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00
Methylacetylene	74-99-7	< 3.17E-06	NA	< 3.34E-06	< 4.85E-07	< 7.95E-06	< 7.51E-06	< 9.66E-08	< 3.39E-06	< 2.41E-07	< 9.66E-08
Methylcyclohexane	108-87-2	1.20E-04	NA	7.74E-04	1.46E-04	3.64E-04	< 3.44E-04	< 1.04E-07	4.56E-05	< 2.60E-07	9.88E-07
Methylcyclopentane	96-37-7	7.69E-05	NA	8.45E-05	1.41E-05	9.85E-05	< 2.63E-04	2.97E-06	1.61E-02	6.24E-04	8.84E-05

TRC

* = Average total of Runs A & B presented in Table B.2-1

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (lb/hr)											
Methylene Chloride	00079-09-2	1.08E-04	NA	1.14E-04	4.39E-06	< 5.87E-05	< 5.54E-05	4.19E-06	< 2.50E-05	1.69E-05	3.21E-06
m-Ethyltoluene	620-14-4	1.95E-04	NA	< 3.43E-06	1.39E-05	< 8.16E-06	< 7.70E-06	< 9.91E-08	< 3.48E-06	< 2.48E-07	< 9.91E-08
m-Xylene + p-Xylene	108-38-3/106-4	3.40E-04	NA	1.24E-03	< 4.94E-07	1.38E-04	< 5.16E-04	1.82E-06	1.67E-04	< 2.46E-07	2.56E-06
n-Butane	106-97-8	1.61E-04	NA	1.45E-04	< 5.41E-07	1.02E-04	< 9.01E-05	< 1.08E-07	< 3.78E-06	< 2.69E-07	< 1.08E-07
n-Decane	124-18-5	7.63E-04	NA	1.62E-04	< 2.65E-06	< 4.35E-05	< 4.31E-05	< 5.28E-07	4.26E-05	< 1.32E-06	< 5.28E-07
n-Heptane	142-82-5	6.11E-05	NA	1.58E-04	2.83E-04	1.01E-04	< 1.42E-04	1.81E-06	8.75E-05	4.51E-06	< 1.06E-07
n-Hexane	110-54-3	1.93E-04	NA	3.87E-04	< 5.35E-07	4.17E-04	< 6.21E-04	1.17E-06	1.46E-02	5.33E-04	6.92E-05
n-Nonane	111-84-2	4.34E-04	NA	1.37E-04	< 5.31E-07	< 8.71E-06	< 8.22E-06	< 1.06E-07	< 3.71E-06	< 2.64E-07	< 1.06E-07
n-Octane	111-65-9	3.48E-05	NA	5.31E-05	< 5.32E-07	< 8.72E-06	< 8.23E-06	< 1.06E-07	9.48E-05	4.98E-06	< 1.06E-07
Nonane		5.86E-04	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
n-Pentane	109-66-0	< 3.52E-06	NA	1.18E-04	< 5.37E-07	1.06E-04	< 6.86E-05	1.39E-06	< 3.76E-06	< 2.68E-07	< 1.07E-07
n-Propylbenzene	103-65-1	1.51E-04	NA	2.91E-04	< 4.97E-07	< 8.16E-06	< 7.70E-06	< 9.91E-08	< 3.48E-06	< 2.48E-07	< 9.91E-08
o-Ethyltoluene	622-96-8	1.24E-04	NA	8.91E-04	9.95E-05	1.47E-04	< 1.06E-04	< 4.95E-07	1.03E-04	< 1.24E-06	1.98E-06
o-Xylene	95-47-6	6.47E-04	NA	6.30E-04	5.93E-06	< 4.05E-05	< 8.03E-05	< 9.84E-08	9.67E-05	< 2.46E-07	1.33E-06
p-Cymene	99-87-6	3.93E-04	NA	2.41E-04	< 2.50E-06	< 4.10E-05	< 3.87E-05	< 4.98E-07	< 1.75E-05	< 1.24E-06	< 4.98E-07
Pentane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	7.13E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00
p-Ethyltoluene	622-96-8	6.35E-04	NA	1.39E-03	< 4.97E-07	< 8.16E-06	< 7.70E-06	< 9.91E-08	< 3.48E-06	< 2.48E-07	< 9.91E-08
Propane	74-98-6	3.04E-04	NA	4.15E-05	< 5.47E-07	< 8.98E-06	< 8.47E-06	5.40E-06	< 3.83E-06	< 2.73E-07	< 1.09E-07
Propylene	115-07-1	< 3.42E-06	NA	1.24E-04	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
Propylene Oxide	00075-56-9	< 4.69E-05	NA	< 4.93E-05	< 1.43E-06	< 1.17E-04	< 1.11E-04	< 1.43E-06	8.13E-04	3.03E-05	< 1.43E-06
Styrene	100-42-5	2.38E-03	NA	2.84E-03	1.99E-05	4.77E-05	< 5.44E-05	< 9.66E-08	2.88E-04	9.17E-06	3.14E-06
t-Butyl Methyl Ether	01634-04-4	< 4.69E-05	NA	< 4.93E-05	< 1.43E-06	< 1.17E-04	< 1.11E-04	< 1.43E-06	< 5.00E-05	< 3.57E-06	< 1.43E-06
Tetra Hydro Furan	00127-18-4	< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	3.67E-04	< 0.00E+00	4.46E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00
Tetrachloroethene	00127-18-4	4.39E-05	NA	2.00E-05	3.94E-07	3.16E-05	2.74E-05	1.96E-06	3.75E-05	1.96E-06	1.25E-06
Toluene	108-88-3	3.21E-04	NA	7.60E-04	8.33E-04	4.82E-04	< 7.21E-04	9.76E-06	4.62E-04	6.35E-06	4.88E-06
trans-1,2-Dichloroethene	00156-60-5	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
trans-1,2-Dichloropropene	10061-01-5	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
trans-2-Butene	624-64-6	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
trans-2-Hexene	4050-45-7	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
trans-2-Pentene	646-04-8	< 3.42E-06	NA	< 3.60E-06	< 5.22E-07	< 8.57E-06	< 8.09E-06	< 1.04E-07	< 3.65E-06	< 2.60E-07	< 1.04E-07
Trichloroethene	00079-01-6	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Trichlorofluoromethane	00075-69-4	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Trichlortrifluoroethane	00076-13-1	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Undecane		5.86E-04	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
Vinyl Acetate	00108-05-4	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Vinyl Chloride	00075-01-4	< 2.34E-05	NA	< 2.47E-05	< 7.16E-07	< 5.87E-05	< 5.54E-05	< 7.13E-07	< 2.50E-05	< 1.78E-06	< 7.13E-07
Total Detected		1.88E-02	NA	6.67E-02	2.85E-03	1.99E-02	9.00E-03	3.20E-04	4.96E-02	1.97E-03	4.22E-04
Total with non-detects		< 2.01E-02	NA	< 6.81E-02	< 2.92E-03	< 2.35E-02	< 2.38E-02	< 3.62E-04	< 5.09E-02	< 2.09E-03	< 4.67E-04

* = Average total of Runs A & B presented in Table B.2-1

TRC

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (lb/lb rubber)											
1-Heptene	592-76-7	< 1.14E-08	NA	7.80E-08	5.23E-06	< 3.96E-08	< 3.73E-08	6.00E-07	2.55E-07	< 2.97E-08	< 1.19E-08
1-Hexene	592-41-6	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	1.33E-07	< 2.97E-08	< 1.19E-08
1-Octene	111-60-0	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	2.92E-08	1.55E-07	< 1.19E-08
1-Pentene	109-67-1	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	1.29E-06	< 1.12E-06	2.29E-07	< 1.06E-08	< 2.97E-08	< 1.19E-08
1,1-Dichloroethane	00075-34-3	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,1-Dichloroethene	00075-35-4	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,1,1-Trichloroethane	00071-55-6	4.78E-08	NA	4.80E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	4.11E-08	< 7.28E-08	< 2.04E-07	3.36E-08
1,1,2-Trichloroethane	00079-00-5	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,1,2,2-Tetrachloroethane	00079-34-5	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.56E-07	NA	< 9.72E-08	< 1.30E-07	< 5.42E-07	< 5.12E-07	< 1.50E-07	< 1.46E-07	< 4.08E-07	< 1.63E-07
1,2-Dibromoethane	00106-93-4	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,2-Dichlorobenzene	0095-50-1	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,2-Dichloroethane	00107-06-2	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,2-Dichloropropane	00078-87-5	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,2,4-Trimethylbenzene	95-63-6	< 5.42E-08	NA	2.50E-05	1.86E-05	1.04E-06	< 1.07E-06	< 5.19E-08	1.21E-07	< 1.27E-07	< 5.66E-08
1,2,4-trimethylbenzene + C10H18	95-63-6	2.92E-06	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
1,3-Butadiene	106-99-0	4.44E-07	NA	5.81E-07	< 4.58E-08	9.53E-07	< 1.17E-06	2.84E-07	2.30E-07	< 2.87E-08	2.98E-07
1,3-Dichlorobenzene	00541-73-1	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,3,5-Trimethylbenzene	108-67-8	6.50E-07	NA	5.74E-07	< 2.26E-07	4.42E-07	< 5.06E-07	3.01E-07	< 1.01E-08	< 1.42E-07	< 1.13E-08
1,4-Dichlorobenzene	00106-46-7	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-5	< 5.44E-08	NA	< 3.39E-08	< 2.27E-07	< 1.89E-07	< 1.79E-07	< 5.22E-08	< 5.08E-08	< 1.42E-07	< 5.69E-08
1,4-Dioxane	00123-91-1	< 3.12E-07	NA	< 1.94E-07	< 2.61E-07	< 1.08E-06	< 1.02E-06	< 2.99E-07	< 2.91E-07	< 8.15E-07	< 3.26E-07
2-Butanone	00078-93-3	1.36E-07	NA	8.50E-07	6.76E-07	2.03E-06	2.08E-06	9.35E-07	1.18E-06	3.97E-07	5.50E-08
2-Hexanone	00591-78-6	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
2-Methyl-1-butene	563-46-2	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	6.54E-07	< 1.06E-08	< 2.97E-08	< 1.19E-08
2-Methyl-2-butene	513-35-9	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
2-Methyl-2-pentene	624-27-4	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
2-Methylheptane	592-27-8	< 1.16E-08	NA	1.19E-07	< 4.84E-08	< 4.03E-08	< 3.80E-08	< 1.11E-08	< 1.08E-08	6.66E-07	1.76E-07
2-Methylhexane	591-76-4	< 1.16E-08	NA	2.17E-07	4.80E-06	< 4.04E-08	< 3.81E-08	2.11E-07	2.66E-07	5.04E-07	1.27E-07
2-Methylpentane	107-83-5	2.91E-07	NA	1.71E-07	< 4.87E-08	8.71E-07	< 8.60E-07	< 1.12E-08	4.57E-06	< 3.04E-08	< 1.22E-08
2,2-Dimethylbutane	75-83-2	< 1.17E-08	NA	< 7.26E-09	< 4.87E-08	< 4.05E-08	< 3.82E-08	1.17E-07	2.83E-07	< 3.04E-08	< 1.22E-08
2,2-Dimethylpropane	463-82-1	< 1.17E-08	NA	< 7.29E-09	< 4.89E-08	< 4.07E-08	< 3.84E-08	< 1.12E-08	< 1.09E-08	< 3.06E-08	< 1.22E-08
2,3-Dimethylpentane	565-59-3	< 1.16E-08	NA	< 7.23E-09	< 4.85E-08	< 4.04E-08	< 1.52E-07	< 1.11E-08	9.22E-08	< 3.03E-08	6.67E-08
2,3,4-Trimethylpentane	565-75-3	< 1.16E-08	NA	< 7.21E-09	< 4.84E-08	< 4.03E-08	< 3.80E-08	< 1.11E-08	5.95E-07	6.05E-07	< 1.21E-08
2,4-Dimethylhexane	589-43-5	< 1.16E-08	NA	1.08E-07	1.31E-06	7.05E-07	< 8.27E-07	< 1.11E-08	1.73E-07	< 3.03E-08	< 1.21E-08

TRC

* = Average total of Runs A & B presented in Table B.2-1

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (lb/lb rubber)											
3-Methylhexane	589-34-4	2.26E-07	NA	2.64E-07	2.33E-05	3.13E-07	< 5.24E-07	1.50E-07	7.59E-07	1.03E-06	2.73E-07
3-Methylpentane	96-14-0	< 1.17E-08	NA	1.71E-07	< 4.87E-08	4.25E-07	< 7.07E-07	1.40E-07	1.47E-05	< 3.04E-08	6.70E-08
4-Methyl-1-pentene	691-37-2	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	4.84E-07	< 5.60E-07	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
4-Methyl-2-Pentanone	00108-10-1	4.09E-06	NA	7.89E-07	1.96E-05	1.46E-05	1.41E-05	1.31E-05	4.92E-07	6.32E-07	2.04E-07
Acetone	00067-64-1	8.29E-07	NA	2.19E-05	3.42E-06	1.26E-05	1.65E-05	5.33E-06	1.29E-06	1.22E-06	4.69E-07
Acetonitrile	01722-09-4	< 1.56E-07	NA	< 9.72E-08	< 1.30E-07	1.17E-06	9.28E-07	3.93E-07	2.46E-07	< 4.08E-07	< 1.63E-07
Acetylene	74-86-2	< 1.06E-08	NA	< 6.58E-09	< 4.41E-08	< 3.67E-08	< 3.46E-08	< 1.01E-08	< 9.86E-09	< 2.76E-08	< 1.10E-08
Acrolein	00107-02-8	2.63E-07	NA	2.25E-07	3.26E-07	1.02E-05	2.56E-07	7.94E-08	1.46E-07	< 4.08E-07	< 1.63E-07
Acrylonitrile	00107-13-1	6.92E-08	NA	< 9.72E-08	< 1.30E-07	< 5.42E-07	< 5.12E-07	7.01E-08	5.10E-08	< 4.08E-07	1.02E-07
Allyl Chloride	00107-05-1	< 1.56E-07	NA	< 9.72E-08	< 1.30E-07	< 5.42E-07	< 5.12E-07	< 1.50E-07	2.64E-07	< 4.08E-07	< 1.63E-07
a-Pinene	7785-70-8	8.84E-07	NA	5.16E-07	< 4.62E-08	< 3.84E-08	< 3.63E-08	< 1.06E-08	2.68E-07	8.08E-07	2.89E-07
Benzene	71-43-2	2.85E-07	NA	2.07E-07	8.38E-07	4.59E-07	< 3.98E-07	2.02E-07	1.53E-07	< 2.76E-08	1.55E-07
Benzene	71-43-2	1.46E-07	NA	9.72E-08	1.14E-07	1.61E-07	1.36E-07	9.35E-08	2.05E-07	9.48E-08	9.48E-08
Benzyl Chloride	00100-44-7	< 1.56E-07	NA	< 9.72E-08	< 1.30E-07	< 5.42E-07	< 5.12E-07	< 1.50E-07	< 1.46E-07	< 4.08E-07	< 1.63E-07
b-Pinene	18172-67-3	< 5.53E-08	NA	< 3.44E-08	< 2.31E-07	< 1.92E-07	< 1.81E-07	< 5.30E-08	2.53E-07	< 1.44E-07	< 5.77E-08
Bromodichloromethane	00075-27-4	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Bromoform	00075-25-2	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Bromomethane	00074-83-9	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Butane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H14 Alkyl Sustituted Benzene		< 0.00E+00	NA	3.64E-06	4.07E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H18 Cyclic Hydrocarbon A		< 0.00E+00	NA	< 0.00E+00	6.52E-06	< 0.00E+00	< 0.00E+00	4.67E-07	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H18 Cyclic Hydrocarbon B		7.80E-06	NA	1.21E-05	8.15E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H18 Cyclic Hydrocarbon + Decane		6.82E-06	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C10H20 Branched Alkene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	7.13E-07	< 0.00E+00
C11H22 Branched Alkene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	7.13E-07	< 0.00E+00
C6H12 Alkene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	5.61E-07	< 0.00E+00	< 0.00E+00	< 0.00E+00
C8H12 Cyclic Alkene		< 0.00E+00	NA	< 0.00E+00	1.63E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C8H16 Branched Alkene		< 0.00E+00	NA	3.04E-06	1.63E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
C8H18 Branched Alkane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	6.37E-07	< 0.00E+00	< 0.00E+00
C9H10 Alkyl Substituted Benzene		< 0.00E+00	NA	1.82E-06	2.44E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	6.11E-07
C9H12 Alkyl Substituted Benzene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	1.02E-06	1.12E-06	< 0.00E+00	1.82E-06	< 0.00E+00	2.04E-06
C9H12 Cyclic Hydrocarbon A		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	2.04E-05	9.17E-06
C9H12 Cyclic Hydrocarbon B		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	1.02E-05	1.02E-06
C9H18 Branched Alkene		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	9.11E-07	< 0.00E+00	4.08E-07
C9H20 Branched Alkane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	8.20E-07	< 0.00E+00	< 0.00E+00
Carbon Disulfide	00075-15-0	3.51E-07	NA	3.04E-07	2.20E-07	2.71E-07	2.56E-07	9.07E-08	< 7.28E-08	3.36E-07	< 8.15E-08
Carbon Tetrachloride	00056-23-5	< 7.80E-08	NA	2.67E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Chlorobenzene	00108-90-7	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	7.20E-08	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Chlorodibromomethane	00124-48-1	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Chloroethane	00075-00-3	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Chloroform	00067-66-3	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08

* = Average total of Runs A & B presented in Table B.2-1

TRC

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (lb/lb rubber)											
Chloromethane	00074-87-3	1.56E-07	NA	3.52E-08	6.19E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	3.64E-08	1.02E-07	< 8.15E-08
cis-1,2-Dichloroethene	00156-59-2	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
cis-1,3-Dichloropropene	10061-01-5	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
cis-2-Butene	590-18-1	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
cis-2-Hexene	7688-21-3	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	8.11E-07	< 3.73E-08	2.73E-07	< 1.06E-08	< 2.97E-08	< 1.19E-08
cis-2-Pentene	627-20-3	4.27E-07	NA	3.01E-07	7.13E-06	7.91E-07	< 8.96E-07	3.65E-07	4.73E-07	5.59E-07	3.15E-07
Cumene	98-82-8	4.93E-07	NA	9.45E-07	4.98E-07	< 3.77E-08	< 3.55E-08	< 1.04E-08	1.52E-06	1.98E-05	7.36E-06
Cyclobutane		< 0.00E+00	NA	1.21E-06	8.15E-07	3.39E-06	1.60E-06	1.87E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00
Cyclohexane	110-82-7	1.65E-07	NA	6.38E-08	1.47E-05	4.84E-07	< 8.31E-07	1.80E-07	1.70E-06	2.62E-06	4.40E-07
Cyclooctadiene		9.75E-07	NA	1.82E-06	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	1.02E-06	< 0.00E+00
Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-	1.71E-07	NA	9.87E-08	7.42E-07	< 4.41E-08	< 4.16E-08	1.03E-06	7.70E-07	6.63E-06	9.28E-07
Cyclopentene	142-29-0	< 1.11E-08	NA	< 6.88E-09	8.77E-07	5.19E-07	< 4.62E-07	5.30E-07	< 1.03E-08	< 2.89E-08	< 1.15E-08
Decane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	4.08E-07
Dichlorodifluoromethane	00075-71-8	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
d-Limonene	5989-27-5	4.81E-07	NA	2.03E-07	< 2.31E-07	< 1.92E-07	< 1.81E-07	< 5.30E-08	3.87E-07	< 1.44E-07	< 5.77E-08
Dodecane		6.82E-07	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
Epichlorohydrin	00106-89-8	< 1.56E-07	NA	< 9.72E-08	< 1.30E-07	< 5.42E-07	< 5.12E-07	< 1.50E-07	< 1.46E-07	< 4.08E-07	< 1.63E-07
Ethane	74-84-0	< 1.22E-08	NA	< 7.60E-09	< 5.09E-08	< 4.24E-08	< 4.00E-08	< 1.17E-08	< 1.14E-08	< 3.19E-08	< 1.27E-08
Ethylacetylene	107-00-6	< 1.10E-08	NA	< 6.83E-09	< 4.58E-08	< 3.81E-08	< 3.60E-08	< 1.05E-08	< 1.02E-08	< 2.87E-08	< 1.15E-08
Ethylbenzene	100-41-4	2.53E-07	NA	7.38E-07	< 4.50E-08	2.71E-07	< 6.71E-07	< 1.03E-08	5.03E-07	< 2.81E-08	< 1.12E-08
Ethylbenzene	100-41-4	1.56E-07	NA	3.64E-07	1.38E-07	1.69E-07	5.28E-07	5.33E-08	8.56E-08	< 2.04E-07	5.40E-08
Ethylene	74-85-1	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
Heptane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	6.40E-07	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
Hexachlorobutadiene	00087-68-3	< 1.56E-07	NA	< 9.72E-08	< 1.30E-07	< 5.42E-07	< 5.12E-07	< 1.50E-07	< 1.46E-07	< 4.08E-07	< 1.63E-07
Isobutane	75-28-5	1.71E-06	NA	< 7.34E-09	< 4.92E-08	< 4.10E-08	< 3.87E-08	< 1.13E-08	< 1.10E-08	< 3.08E-08	< 1.23E-08
Isobutylene + 1-Butene	115-11-7/106-9	< 1.14E-08	NA	5.67E-07	< 4.75E-08	1.68E-06	< 1.49E-06	< 1.09E-08	1.33E-07	< 2.97E-08	< 1.19E-08
Isobutyraldehyde		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	8.47E-07	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
Isooctane	540-84-1	2.37E-07	NA	1.37E-07	1.89E-06	< 4.03E-08	< 3.80E-08	< 1.11E-08	< 1.08E-08	< 3.03E-08	< 1.21E-08
Isopentane	78-78-4	1.05E-06	NA	2.99E-05	< 4.89E-08	2.14E-05	< 2.69E-05	< 1.12E-08	2.24E-06	< 3.06E-08	< 1.22E-08
Isoprene	78-79-5	< 1.11E-08	NA	1.17E-07	< 4.62E-08	< 1.73E-07	< 1.90E-07	< 1.06E-08	< 1.03E-08	< 2.89E-08	< 1.15E-08
m & p-Xylenes	108-38-3/106-4	5.56E-07	NA	1.28E-06	4.40E-07	5.76E-07	1.92E-06	1.78E-07	2.00E-07	1.63E-07	1.53E-07
Methyl Hexane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	4.80E-07	< 0.00E+00	6.37E-07	1.02E-06	< 0.00E+00
Methyl Pentane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	9.11E-06	1.43E-05	2.65E-06
Methyl Vinyl Ketone		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	1.02E-06	8.00E-07	6.54E-07	< 0.00E+00	< 0.00E+00	< 0.00E+00
Methylacetylene	74-99-7	< 1.06E-08	NA	< 6.58E-09	< 4.41E-08	< 3.67E-08	< 3.46E-08	< 1.01E-08	< 9.86E-09	< 2.76E-08	< 1.10E-08
Methylcyclohexane	108-87-2	3.98E-07	NA	1.52E-06	1.33E-05	1.68E-06	< 1.59E-06	< 1.09E-08	1.33E-07	< 2.97E-08	1.13E-07
Methylcyclopentane	96-37-7	2.56E-07	NA	1.67E-07	1.28E-06	4.55E-07	< 1.21E-06	3.11E-07	4.68E-05	7.13E-05	1.01E-05

TRC

* = Average total of Runs A & B presented in Table B.2-1

TABLE B.2-3
SMALL MIXER 1/LARGE MIXER 1 SPECIATED VOLATILES SUMMARY

Compound	CAS Number	TREAD		SBR		SDW			EPDM		
		Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small-A*	Small-B*
Speciated Vol. (lb/lb rubber)											
Methylene Chloride	00079-09-2	3.61E-07	NA	2.25E-07	3.99E-07	< 2.71E-07	< 2.56E-07	4.39E-07	< 7.28E-08	1.94E-06	3.67E-07
m-Ethyltoluene	620-14-4	6.50E-07	NA	< 6.75E-09	1.27E-06	< 3.77E-08	< 3.55E-08	< 1.04E-08	< 1.01E-08	< 2.83E-08	< 1.13E-08
m-Xylene + p-Xylene	108-38-3/106-4	1.13E-06	NA	2.45E-06	< 4.50E-08	6.36E-07	< 2.38E-06	1.91E-07	4.88E-07	< 2.81E-08	2.92E-07
n-Butane	106-97-8	5.36E-07	NA	2.86E-07	< 4.92E-08	4.71E-07	< 4.16E-07	< 1.13E-08	< 1.10E-08	< 3.08E-08	< 1.23E-08
n-Decane	124-18-5	2.54E-06	NA	3.20E-07	< 2.41E-07	< 2.01E-07	< 1.99E-07	< 5.53E-08	1.24E-07	< 1.51E-07	< 6.03E-08
n-Heptane	142-82-5	2.03E-07	NA	3.11E-07	2.57E-05	4.64E-07	< 6.57E-07	1.89E-07	2.55E-07	5.16E-07	< 1.21E-08
n-Hexane	110-54-3	6.41E-07	NA	7.62E-07	< 4.87E-08	1.92E-06	< 2.87E-06	1.23E-07	4.24E-05	6.09E-05	7.91E-06
n-Nonane	111-84-2	1.44E-06	NA	2.70E-07	< 4.83E-08	< 4.02E-08	< 3.79E-08	< 1.11E-08	< 1.08E-08	< 3.02E-08	< 1.21E-08
n-Octane	111-65-9	1.16E-07	NA	1.05E-07	< 4.84E-08	< 4.03E-08	< 3.80E-08	< 1.11E-08	2.76E-07	5.69E-07	< 1.21E-08
Nonane		1.95E-06	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
n-Pentane	109-66-0	< 1.17E-08	NA	2.33E-07	< 4.89E-08	4.88E-07	< 3.17E-07	1.46E-07	< 1.09E-08	< 3.06E-08	< 1.22E-08
n-Propylbenzene	103-65-1	5.04E-07	NA	5.74E-07	< 4.53E-08	< 3.77E-08	< 3.55E-08	< 1.04E-08	< 1.01E-08	< 2.83E-08	< 1.13E-08
o-Ethyltoluene	622-96-8	4.12E-07	NA	1.75E-06	9.05E-06	6.78E-07	< 4.89E-07	< 5.19E-08	2.98E-07	< 1.42E-07	2.26E-07
o-Xylene	95-47-6	2.15E-06	NA	1.24E-06	5.40E-07	< 1.87E-07	< 3.71E-07	< 1.03E-08	2.81E-07	< 2.81E-08	1.52E-07
p-Cymene	99-87-6	1.31E-06	NA	4.75E-07	< 2.27E-07	< 1.89E-07	< 1.79E-07	< 5.22E-08	< 5.08E-08	< 1.42E-07	< 5.69E-08
Pentane		< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	7.48E-07	< 0.00E+00	< 0.00E+00	< 0.00E+00
p-Ethyltoluene	622-96-8	2.11E-06	NA	2.73E-06	< 4.53E-08	< 3.77E-08	< 3.55E-08	< 1.04E-08	< 1.01E-08	< 2.83E-08	< 1.13E-08
Propane	74-98-6	1.01E-06	NA	8.17E-08	< 4.98E-08	< 4.14E-08	< 3.91E-08	5.66E-07	< 1.11E-08	< 3.12E-08	< 1.25E-08
Propylene	115-07-1	< 1.14E-08	NA	2.44E-07	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
Propylene Oxide	00075-56-9	< 1.56E-07	NA	< 9.72E-08	< 1.30E-07	< 5.42E-07	< 5.12E-07	< 1.50E-07	2.37E-06	3.46E-06	< 1.63E-07
Styrene	100-42-5	7.92E-06	NA	5.59E-06	1.81E-06	2.20E-07	< 2.51E-07	< 1.01E-08	8.38E-07	1.05E-06	3.59E-07
t-Butyl Methyl Ether	01634-04-4	< 1.56E-07	NA	< 9.72E-08	< 1.30E-07	< 5.42E-07	< 5.12E-07	< 1.50E-07	< 1.46E-07	< 4.08E-07	< 1.63E-07
Tetra Hydro Furan	00127-18-4	< 0.00E+00	NA	< 0.00E+00	< 0.00E+00	1.69E-06	< 0.00E+00	4.67E-07	< 0.00E+00	< 0.00E+00	< 0.00E+00
Tetrachloroethene	00127-18-4	1.46E-07	NA	3.95E-08	3.58E-08	1.46E-07	1.26E-07	2.06E-07	1.09E-07	2.24E-07	1.43E-07
Toluene	108-88-3	1.07E-06	NA	1.50E-06	7.58E-05	2.23E-06	< 3.33E-06	1.02E-06	1.35E-06	7.25E-07	5.58E-07
trans-1,2-Dichloroethene	00156-60-5	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
trans-1,2-Dichloropropene	10061-01-5	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
trans-2-Butene	624-64-6	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
trans-2-Hexene	4050-45-7	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
trans-2-Pentene	646-04-8	< 1.14E-08	NA	< 7.09E-09	< 4.75E-08	< 3.96E-08	< 3.73E-08	< 1.09E-08	< 1.06E-08	< 2.97E-08	< 1.19E-08
Trichloroethene	00079-01-6	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Trichlorofluoromethane	00075-69-4	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Trichlortrifluoroethane	00076-13-1	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Undecane		1.95E-06	NA	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00	< 0.00E+00
Vinyl Acetate	00108-05-4	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Vinyl Chloride	00075-01-4	< 7.80E-08	NA	< 4.86E-08	< 6.52E-08	< 2.71E-07	< 2.56E-07	< 7.48E-08	< 7.28E-08	< 2.04E-07	< 8.15E-08
Total Detected		6.26E-05	NA	1.31E-04	2.59E-04	9.19E-05	4.15E-05	3.36E-05	1.44E-04	2.25E-04	4.82E-05
Total with non-detects		< 6.69E-05	NA	< 1.34E-04	< 2.66E-04	< 1.09E-04	< 1.10E-04	< 3.79E-05	< 1.48E-04	< 2.39E-04	< 5.33E-05

* = Average total of Runs A & B presented in Table B.2-1

TABLE B.2-4
SMALL MIXER 1/LARGE MIXER 1 SULFUR SUMMARY

	CAS	TREAD		EPDM			SDW			SBR	
	Numbers	Large	Small	Large	Small-A*	Small-B*	Large-A*	Large-B*	Small	Large	Small
Sulfur (µg/m³)											
Carbonyl Sulfide	463-58-1	57.3	NA	133	100	< 9.8	< 20	< 20	< 9.8	112	67.9
Methyl Mercaptan	74-93-1	< 7.9	NA	< 7.9	< 7.9	< 7.9	< 16	< 16	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10.0	NA	< 10.0	< 10.0	< 10.0	< 20	< 20	< 10.0	< 10.0	< 10.0
Dimethyl Sulfide	75-18-3	< 10.0	NA	< 10.0	< 10.0	< 10.0	< 20	< 20	< 10.0	< 10.0	< 10.0
Carbon Disulfide	75-15-0	14.2	NA	13.4	< 12.0	< 12.0	< 25	< 25	< 12.0	36.2	17.8
Isopropyl Mercaptan	75-33-2	< 12.0	NA	< 12.0	< 12.0	< 12.0	< 25	< 25	< 12.0	< 12.0	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15.0	NA	< 15.0	< 15.0	< 15.0	< 29	< 29	< 15.0	< 15.0	< 15.0
n-Propyl Mercaptan	107-03-9	< 12.0	NA	< 12.0	< 12.0	< 12.0	< 25	< 25	< 12.0	< 12.0	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12.0	NA	< 12.0	< 12.0	< 12.0	< 25	< 25	< 12.0	< 12.0	< 12.0
Thiophene	110-02-1	< 14.0	NA	< 14.0	< 14.0	< 14.0	< 28	< 28	< 14.0	< 14.0	< 14.0
Isobutyl Mercaptan	513-44-0	< 15.0	NA	< 15.0	< 15.0	< 15.0	< 29	< 29	< 15.0	< 15.0	< 15.0
Diethyl Sulfide	352-93-2	< 15.0	NA	< 15.0	< 15.0	< 15.0	< 29	< 29	< 15.0	< 15.0	< 15.0
n-Butyl Mercaptan	109-79-5	< 15.0	NA	< 15.0	< 15.0	< 15.0	< 29	< 29	< 15.0	< 15.0	< 15.0
Dimethyl Disulfide	624-92-0	< 7.7	NA	< 7.7	< 7.7	< 7.7	< 15	< 15	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16.0	NA	< 16.0	< 16.0	< 16.0	< 32	< 32	< 16.0	< 16.0	< 16.0
Tetrahydrothiophene	110-01-0	< 14.0	NA	< 14.0	< 14.0	< 14.0	< 29	< 29	< 14.0	< 14.0	< 14.0
2-Ethylthiophene	872-55-9	< 18.0	NA	< 18.0	< 18.0	< 18.0	< 37	< 37	< 18.0	< 18.0	< 18.0
2,5-Dimethylthiophene	638-02-8	< 18.0	NA	< 18.0	< 18.0	< 18.0	< 37	< 37	< 18.0	< 18.0	< 18.0
Diethyl Disulfide	110-81-6	< 10.0	NA	< 10.0	< 10.0	< 10.0	< 20	< 20	< 10.0	< 10.0	< 10.0
Total Detected		71.5	NA	146.4	100.0	0.0	0.0	0.0	0.0	148.2	85.7
Total with non-detects		< 293.1	NA	< 368.0	< 333.6	< 243.4	< 490.0	< 490.0	< 243.4	< 369.8	< 307.3
Sulfur (lbs/hr)											
Carbonyl Sulfide	463-58-1	1.68E-04	NA	4.16E-04	8.92E-06	< 8.74E-07	< 7.34E-05	< 6.93E-05	< 8.74E-07	3.45E-04	6.08E-06
Methyl Mercaptan	74-93-1	< 2.31E-05	NA	< 2.47E-05	< 7.04E-07	< 7.04E-07	< 5.87E-05	< 5.54E-05	< 7.04E-07	< 2.44E-05	< 7.07E-07
Ethyl Mercaptan	75-08-1	< 2.93E-05	NA	< 3.13E-05	< 8.92E-07	< 8.92E-07	< 7.34E-05	< 6.93E-05	< 8.92E-07	< 3.08E-05	< 8.95E-07
Dimethyl Sulfide	75-18-3	< 2.93E-05	NA	< 3.13E-05	< 8.92E-07	< 8.92E-07	< 7.34E-05	< 6.93E-05	< 8.92E-07	< 3.08E-05	< 8.95E-07
Carbon Disulfide	75-15-0	4.16E-05	NA	4.19E-05	< 1.07E-06	< 1.07E-06	< 9.18E-05	< 8.66E-05	< 1.07E-06	1.12E-04	1.59E-06
Isopropyl Mercaptan	75-33-2	< 3.52E-05	NA	< 3.75E-05	< 1.07E-06	< 1.07E-06	< 9.18E-05	< 8.66E-05	< 1.07E-06	< 3.70E-05	< 1.07E-06
tert-Butyl Mercaptan	75-66-1	< 4.39E-05	NA	< 4.69E-05	< 1.34E-06	< 1.34E-06	< 1.06E-04	< 1.00E-04	< 1.34E-06	< 4.62E-05	< 1.34E-06
n-Propyl Mercaptan	107-03-9	< 3.52E-05	NA	< 3.75E-05	< 1.07E-06	< 1.07E-06	< 9.18E-05	< 8.66E-05	< 1.07E-06	< 3.70E-05	< 1.07E-06
Ethyl Methyl Sulfide	624-89-5	< 3.52E-05	NA	< 3.75E-05	< 1.07E-06	< 1.07E-06	< 9.18E-05	< 8.66E-05	< 1.07E-06	< 3.70E-05	< 1.07E-06
Thiophene	110-02-1	< 4.10E-05	NA	< 4.38E-05	< 1.25E-06	< 1.25E-06	< 1.03E-04	< 9.70E-05	< 1.25E-06	< 4.32E-05	< 1.25E-06
Isobutyl Mercaptan	513-44-0	< 4.39E-05	NA	< 4.69E-05	< 1.34E-06	< 1.34E-06	< 1.06E-04	< 1.00E-04	< 1.34E-06	< 4.62E-05	< 1.34E-06
Diethyl Sulfide	352-93-2	< 4.39E-05	NA	< 4.69E-05	< 1.34E-06	< 1.34E-06	< 1.06E-04	< 1.00E-04	< 1.34E-06	< 4.62E-05	< 1.34E-06
n-Butyl Mercaptan	109-79-5	< 4.39E-05	NA	< 4.69E-05	< 1.34E-06	< 1.34E-06	< 1.06E-04	< 1.00E-04	< 1.34E-06	< 4.62E-05	< 1.34E-06
Dimethyl Disulfide	624-92-0	< 2.26E-05	NA	< 2.41E-05	< 6.86E-07	< 6.86E-07	< 5.51E-05	< 5.20E-05	< 6.86E-07	< 2.37E-05	< 6.89E-07
3-Methylthiophene	616-44-4	< 4.69E-05	NA	< 5.00E-05	< 1.43E-06	< 1.43E-06	< 1.17E-04	< 1.11E-04	< 1.43E-06	< 4.93E-05	< 1.43E-06
Tetrahydrothiophene	110-01-0	< 4.10E-05	NA	< 4.38E-05	< 1.25E-06	< 1.25E-06	< 1.06E-04	< 1.00E-04	< 1.25E-06	< 4.32E-05	< 1.25E-06
2-Ethylthiophene	872-55-9	< 5.27E-05	NA	< 5.63E-05	< 1.60E-06	< 1.60E-06	< 1.36E-04	< 1.28E-04	< 1.60E-06	< 5.55E-05	< 1.61E-06
2,5-Dimethylthiophene	638-02-8	< 5.27E-05	NA	< 5.63E-05	< 1.60E-06	< 1.60E-06	< 1.36E-04	< 1.28E-04	< 1.60E-06	< 5.55E-05	< 1.61E-06
Diethyl Disulfide	110-81-6	< 2.93E-05	NA	< 3.13E-05	< 8.92E-07	< 8.92E-07	< 7.34E-05	< 6.93E-05	< 8.92E-07	< 3.08E-05	< 8.95E-07
Total Detected		2.09E-04	NA	4.58E-04	8.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	7.67E-06
Total with non-detects		< 8.59E-04	NA	< 1.15E-03	< 2.97E-05	< 2.17E-05	< 1.80E-03	< 1.70E-03	< 2.17E-05	< 1.14E-03	< 2.75E-05
Sulfur (lbs/lb rubber)											
Carbonyl Sulfide	463-58-1	5.59E-07	NA	1.21E-06	1.02E-06	< 9.99E-08	< 3.39E-07	< 3.20E-07	< 9.16E-08	6.80E-07	5.53E-07
Methyl Mercaptan	74-93-1	< 7.70E-08	NA	< 7.19E-08	< 8.05E-08	< 8.05E-08	< 2.71E-07	< 2.56E-07	< 7.38E-08	< 4.80E-08	< 6.44E-08
Ethyl Mercaptan	75-08-1	< 9.75E-08	NA	< 9.11E-08	< 1.02E-07	< 1.02E-07	< 3.39E-07	< 3.20E-07	< 9.35E-08	< 6.07E-08	< 8.15E-08
Dimethyl Sulfide	75-18-3	< 9.75E-08	NA	< 9.11E-08	< 1.02E-07	< 1.02E-07	< 3.39E-07	< 3.20E-07	< 9.35E-08	< 6.07E-08	< 8.15E-08
Carbon Disulfide	75-15-0	1.38E-07	NA	1.22E-07	< 1.22E-07	< 1.22E-07	< 4.24E-07	< 4.00E-07	< 1.12E-07	2.20E-07	1.45E-07
Isopropyl Mercaptan	75-33-2	< 1.17E-07	NA	< 1.09E-07	< 1.22E-07	< 1.22E-07	< 4.24E-07	< 4.00E-07	< 1.12E-07	< 7.29E-08	< 9.78E-08
tert-Butyl Mercaptan	75-66-1	< 1.46E-07	NA	< 1.37E-07	< 1.53E-07	< 1.53E-07	< 4.91E-07	< 4.64E-07	< 1.40E-07	< 9.11E-08	< 1.22E-07
n-Propyl Mercaptan	107-03-9	< 1.17E-07	NA	< 1.09E-07	< 1.22E-07	< 1.22E-07	< 4.24E-07	< 4.00E-07	< 1.12E-07	< 7.29E-08	< 9.78E-08
Ethyl Methyl Sulfide	624-89-5	< 1.17E-07	NA	< 1.09E-07	< 1.22E-07	< 1.22E-07	< 4.24E-07	< 4.00E-07	< 1.12E-07	< 7.29E-08	< 9.78E-08
Thiophene	110-02-1	< 1.36E-07	NA	< 1.27E-07	< 1.43E-07	< 1.43E-07	< 4.74E-07	< 4.48E-07	< 1.31E-07	< 8.50E-08	< 1.14E-07
Isobutyl Mercaptan	513-44-0	< 1.46E-07	NA	< 1.37E-07	< 1.53E-07	< 1.53E-07	< 4.91E-07	< 4.64E-07	< 1.40E-07	< 9.11E-08	< 1.22E-07
Diethyl Sulfide	352-93-2	< 1.46E-07	NA	< 1.37E-07	< 1.53E-07	< 1.53E-07	< 4.91E-07	< 4.64E-07	< 1.40E-07	< 9.11E-08	< 1.22E-07
n-Butyl Mercaptan	109-79-5	< 1.46E-07	NA	< 1.37E-07	< 1.53E-07	< 1.53E-07	< 4.91E-07	< 4.64E-07	< 1.40E-07	< 9.11E-08	< 1.22E-07
Dimethyl Disulfide	624-92-0	< 7.51E-08	NA	< 7.01E-08	< 7.85E-08	< 7.85E-08	< 2.54E-07	< 2.40E-07	< 7.20E-08	< 4.68E-08	< 6.27E-08
3-Methylthiophene	616-44-4	< 1.56E-07	NA	< 1.46E-07	< 1.63E-07	< 1.63E-07	< 5.42E-07	< 5.12E-07	< 1.50E-07	< 9.72E-08	< 1.30E-07
Tetrahydrothiophene	110-01-0	< 1.36E-07	NA	< 1.27E-07	< 1.43E-07	< 1.43E-07	< 4.91E-07	< 4.64E-07	< 1.31E-07	< 8.50E-08	< 1.14E-07
2-Ethylthiophene	872-55-9	< 1.75E-07	NA	< 1.64E-07	< 1.83E-07	< 1.83E-07	< 6.27E-07	< 5.92E-07	< 1.68E-07	< 1.09E-07	< 1.47E-07
2,5-Dimethylthiophene	638-02-8	< 1.75E-07	NA	< 1.64E-07	< 1.83E-07	< 1.83E-07	< 6.27E-07	< 5.92E-07	< 1.68E-07	< 1.09E-07	< 1.47E-07
Diethyl Disulfide	110-81-6	< 9.75E-08	NA	< 9.11E-08	< 1.02E-07	< 1.02E-07	< 3.39E-07	< 3.20E-07	< 9.35E-08	< 6.07E-08	< 8.15E-08
Total Detected		6.97E-07	NA	1.33E-06	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-07	6.98E-07
Total with non-detects		< 2.86E-06	NA	< 3.35E-06	< 3.40E-06	< 2.48E-06	< 8.30E-06	< 7.84E-06	< 2.27E-06	< 2.25E-06	< 2.50E-06

* - The average of Small-A and Small-B is presented in the summary table

* - The average of Large-A and Large-B is presented in the summary table

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TABLE B.2-5
SMALL MIXER 1/LARGE MIXER 1 METALS SUMMARY

	TREAD		EPDM		SDW			SBR	
	Large	Small	Large	Small	Large-A*	Large-B*	Small	Large	Small
METALS (µg)									
Cr	9.2	NA	10.3	14.4	23.7	8	22.3	32.5	43.9
Cu	10.28	NA	3.08	1.56	1.66	6.18	1.7	6.76	1.86
Mg	102.55	NA	40.88	13.65	30.78	108.68	23.55	61.65	38.35
Ni	29.5	NA	2.75	5.5	18.5	3.5	7.75	41.5	16.8
Zn	1476.25	NA	695	2746.25	1893	1223	1596.25	29196.3	5096.25
Cd	3.15	NA	0.308	0.432	0.351	1.826	0.275	1.49	0.49
Pb	24.09	NA	8.59	3.11	12.39	15.69	3.74	17.79	5.01
Total Detected	1655.02	NA	760.908	2784.9	1980.38	1366.88	1655.57	29357.9	5202.66
METALS (µg/m³)									
Cr	3.10	NA	3.87	6.18	27.50	9.06	8.38	22.78	14.07
Cu	3.46	NA	1.16	0.67	1.93	7.00	0.64	4.74	0.60
Mg	34.54	NA	15.35	5.85	35.71	123.05	8.85	43.20	12.29
Ni	9.94	NA	1.03	2.36	21.47	3.96	2.91	29.08	5.39
Zn	497.23	NA	260.96	1177.79	2196.41	1384.76	599.84	20460.05	1633.81
Cd	1.06	NA	0.12	0.19	0.41	2.07	0.10	1.04	0.16
Pb	8.11	NA	3.23	1.33	14.38	17.77	1.41	12.47	1.61
Total Detected	557.44	NA	285.70	1194.37	2297.79	1547.66	622.13	20573.36	1667.92
METALS (lb/hr)									
Cr	1.02E-05	NA	1.30E-05	5.49E-07	1.05E-04	3.25E-05	7.44E-07	7.23E-05	1.25E-06
Cu	1.15E-05	NA	3.88E-06	5.94E-08	7.34E-06	2.51E-05	5.67E-08	1.50E-05	5.32E-08
Mg	1.14E-04	NA	5.15E-05	5.20E-07	1.36E-04	4.42E-04	7.85E-07	1.37E-04	1.10E-06
Ni	3.29E-05	NA	3.46E-06	2.10E-07	8.18E-05	1.42E-05	2.58E-07	9.24E-05	4.80E-07
Zn	1.64E-03	NA	8.75E-04	1.05E-04	8.37E-03	4.97E-03	5.32E-05	6.50E-02	1.46E-04
Cd	3.51E-06	NA	3.88E-07	1.65E-08	1.55E-06	7.42E-06	9.17E-09	3.32E-06	1.40E-08
Pb	2.68E-05	NA	1.08E-05	1.18E-07	5.48E-05	6.38E-05	1.25E-07	3.96E-05	1.43E-07
Total Detected	1.84E-03	NA	9.58E-04	1.06E-04	8.75E-03	5.55E-03	5.52E-05	6.54E-02	1.49E-04
METALS (lb/lb rubber)									
Cr	3.41E-08	NA	3.77E-08	6.27E-08	4.84E-07	1.50E-07	7.80E-08	1.43E-07	1.14E-07
Cu	3.81E-08	NA	1.13E-08	6.79E-09	3.39E-08	1.16E-07	5.94E-09	2.96E-08	4.84E-09
Mg	3.80E-07	NA	1.50E-07	5.94E-08	6.28E-07	2.04E-06	8.23E-08	2.70E-07	9.97E-08
Ni	1.09E-07	NA	1.01E-08	2.39E-08	3.77E-07	6.56E-08	2.71E-08	1.82E-07	4.37E-08
Zn	5.47E-06	NA	2.55E-06	1.20E-05	3.86E-05	2.29E-05	5.58E-06	1.28E-04	1.33E-05
Cd	1.17E-08	NA	1.13E-09	1.88E-09	7.16E-09	3.42E-08	9.61E-10	6.53E-09	1.27E-09
Pb	8.93E-08	NA	3.15E-08	1.35E-08	2.53E-07	2.94E-07	1.31E-08	7.80E-08	1.30E-08
Total Detected	6.14E-06	NA	2.79E-06	1.21E-05	4.04E-05	2.56E-05	5.79E-06	1.29E-04	1.35E-05

* - The average of Large-A and Large-B is presented in the summary table

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TABLE B.2-6

SMALL MIXER 1/LARGE MIXER 1 POM SUMMARY

	TREAD		EPDM		SDW			SBR	
	Large	Small	Large	Small	Large-A[2]	Large-B[2]	Small	Large	Small
POM (mg)	3.5	NA	5.5	1.9	3.9	1.3	5.9	2.0	0.5
POM- (mg)*	3.4	NA	5.4	1.8	3.8	1.2	5.8	1.9	0.4
Sample Volume (dscf)	95.799	NA	88.676	77.068	28.755	29.679	95.201	46.548	109.169
Flowrate (dscfm)	823	NA	857	24.00	966	910	24.00	821	24.00
POM (mg/m³)	1.25	NA	2.15	0.82	4.67	1.43	2.15	1.44	0.13
POM (lb/hr)	3.86E-03	NA	6.90E-03	7.41E-05	1.69E-02	4.87E-03	1.93E-04	4.43E-03	1.16E-05
Run Time (min)	129	NA	115	120	33	35	145	64	168
Rubber Mixed (lbs/hr)**	300.46	NA	343.52	8.75	216.64	216.64	9.54	507.69	10.99
POM (lb/lb rubber)	1.29E-05	NA	2.01E-05	8.47E-06	7.79E-05	2.25E-05	2.03E-05	8.73E-06	1.06E-06

* - Blank corrected

** - Productive only

[2] - The average of Large-A and Large-B is presented in the summary table

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Section B.3

Internal Mixer Control Device

TRC

Section B.3

Internal Mixer Control Device

Table Number	Title	No. of Pages
B.3-1	Mixer Control Device Summary Table	1
B.3-2	Mixer Control Device Speciated Semivolatiles Summary	6
B.3-3	Mixer Control Device Speciated Volatiles Summary	6
B.3-4	Mixer Control Device Sulfur Summary	1
B.3-5	Mixer Control Device Metals Summary	1
B.3-6	Mixer Control Device POM Summary	1
B.3-7	Mixer Control Device Particulate Matter Summary	1

TABLE B.3-1
MIXER CONTROL DEVICE (Torit Fabric Filter) SUMMARY

	Metals, POM, & PM								Semi VOC, VOC, & Sulfur							
	Run 1		Run 2		Run 3		AVERAGE		Run 1		Run 2		Run 3		AVERAGE	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
First Pass (lbs/drop)*	463		–		463				470		463		470			
First Pass Batch Temp (°F)	315		–		315				330		325		330			
Total Drops - first pass	19		–		25				16		24		16			
Second Pass(lbs/drop)	460		485		–				464		485		460			
Second Pass Batch Temp (°F)	335		330		–				320		330		335			
Total Drops - second pass	11		31		–				15		19		24			
Total Drops per run	30		31		25				31		43		40			
Total Rubber (lbs/run)	13,857		15,035		11,575				14,480		20,327		18,560			
Total Hydrocarbons (ppm/run)										1.7		2		0.6		1.4
Total Hydrocarbons (lbs/hr)										8.27E-02		9.39E-02		2.43E-02		6.70E-02
Total Hydrocarbons (lbs/lb rubber)										1.14E-05		9.24E-06		2.62E-06		7.75E-06
Standard Deviation (lbs/lb rubber)										5.69E-06		5.71E-06		2.60E-06		4.67E-06
Total Speciated Semi Vol. (μg/m³) Detected									455.03	420.92	509.40	418.36	679.69	254.98	548.04	364.59
Total Speciated Semi Vol. (lbs/hr) Detected									1.18E-02	1.22E-02	1.31E-02	1.23E-02	1.72E-02	7.46E-03	1.40E-02	1.06E-02
Total Speciated Semi Vol. (lbs/lb rubber) Detected									1.63E-06	1.68E-06	1.40E-06	1.31E-06	1.90E-06	8.24E-07	1.64E-06	1.27E-06
Total Speciated Semi Vol. (lbs/lb rubber) with non-detects									<1.87E-06	<2.02E-06	<2.53E-06	<1.49E-06	<2.79E-06	<1.02E-06	<2.40E-06	<1.51E-06
Total Speciated Volatiles (μg/m³) Detected									18052.5	19770.7	11041.9	6955.2	12200.7	13944.4	13765.0	13556.8
Total Speciated Volatiles (lbs/hr) Detected									4.68E-01	5.73E-01	2.84E-01	2.04E-01	3.09E-01	4.08E-01	3.54E-01	3.95E-01
Total Speciated Volatiles (lbs/lb rubber) Detected									6.46E-05	7.91E-05	3.03E-05	2.18E-05	3.41E-05	4.50E-05	4.30E-05	4.87E-05
Total Speciated Volatiles (lbs/lb rubber) with non-detects									<6.82E-05	<8.31E-05	<3.34E-05	<2.53E-05	<3.73E-05	<4.84E-05	<4.63E-05	<5.23E-05
Total Sulfur (μg/m³) Detected									85.7	59.7	54.9	33.4	101.6	209.2	80.7	100.8
Total Sulfur (lbs/hr) Detected									2.22E-03	1.73E-03	1.41E-03	9.81E-04	2.57E-03	6.12E-03	2.07E-03	2.94E-03
Total Sulfur (lbs/lb rubber) Detected									3.07E-07	2.39E-07	1.50E-07	1.05E-07	2.84E-07	6.76E-07	2.47E-07	3.40E-07
Total Sulfur (lbs/lb rubber) with non-detects									<1.10E-06	<1.17E-06	<7.91E-07	<8.36E-07	<9.04E-07	<1.37E-06	<9.31E-07	<1.13E-06
Total Metals (μg/m³) Detected	85738.6	400.5	155063.9	503.0	8007.0	358.2	82936.5	420.5								
Total Metals (lbs/hr) Detected	2.23E+00	1.15E-02	4.03E+00	1.49E-02	2.08E-01	1.07E-02	2.15E+00	1.23E-02								
Total Metals (lbs/lb rubber) Detected	2.41E-04	1.24E-06	4.02E-04	1.49E-06	2.69E-05	1.38E-06	2.23E-04	1.37E-06								
Total Metals Control Efficiency (%)		99.5%		99.6%		94.9%		98.0%								
POM (mg/m³) Detected	36.39	6.96	29.14	5.42	15.89	1.13	27.14	4.50								
POM (lb/hr) Detected	9.34E-01	1.96E-01	7.44E-01	1.57E-01	4.15E-01	3.28E-02	6.98E-01	1.29E-01								
POM (lb/lb rubber) Detected	1.01E-04	2.13E-05	7.43E-05	1.57E-05	5.37E-05	4.25E-06	7.64E-05	1.37E-05								
POM Control Efficiency (%)		79.0%		78.9%		92.1%		83.3%								
PM (mg/m³) Detected	1354.26	5.22	669.96	3.97	686.74	7.12	903.65	5.44								
PM (lb/hr) Detected	35.152	0.149	17.405	0.117	17.794	0.212	23.45	0.16								
PM (lb/lb rubber) Detected	3.81E-03	1.62E-05	1.74E-03	1.17E-05	2.31E-03	2.75E-05	2.62E-03	1.85E-05								
PM Control Efficiency (%)		99.6%		99.3%		98.8%		99.2%								

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TABLE B.3-2
MIXER CONTROL DEVICE SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGES Inlet w/ non-detects	AVERAGES Outlet w/ non-detects
Speciated Semi (µg/m³)									
Pyridine	110-86-1	5.06	5.49	2.56	6.61	6.84	4.27	4.82	5.46
Phenol	108-95-2	265.96	256.10	230.18	249.71	265.35	156.99	253.83	220.93
bis(2-Chloroethyl)ether	111-44-4	< 0.78	< 0.92	< 4.40	< 0.66	< 3.42	< 0.71	< 2.87	< 0.76
2-Chlorophenol	95-57-8	< 0.65	< 0.77	< 3.68	< 0.48	< 2.86	< 0.52	< 2.40	< 0.59
1,3-Dichlorobenzene	541-73-1	< 0.64	< 0.75	< 3.57	< 0.46	< 2.77	< 0.50	< 2.33	< 0.57
1,4-Dichlorobenzene	106-46-7	< 0.62	< 0.74	< 3.52	< 0.46	< 2.73	< 0.50	< 2.29	< 0.56
1,2-Dichlorobenzene	95-50-1	< 0.70	< 0.82	< 3.90	< 0.50	< 3.03	< 0.54	< 2.54	< 0.62
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.61	< 0.72	< 3.44	< 0.57	< 2.67	< 0.62	< 2.24	< 0.64
Benzyl alcohol	100-51-6	0.97	0.94	< 6.25	0.28	6.02	0.47	< 4.41	0.56
2-Methylphenol	95-48-7	6.89	3.52	6.90	4.71	7.76	3.64	7.18	3.95
3/4-Methylphenol	108-39-4/106-44-5	14.37	5.73	16.27	9.77	16.54	6.03	15.73	7.18
N-Nitroso-di-n-propylamine	621-64-7	< 1.29	< 1.52	< 7.25	< 1.08	< 5.63	< 1.16	< 4.72	< 1.25
Hexachloroethane	67-72-1	< 1.30	< 1.52	< 7.28	< 0.94	< 5.65	< 1.02	< 4.74	< 1.16
Nitrobenzene	98-95-3	< 0.70	< 0.83	< 3.74	< 0.54	< 3.03	< 0.58	< 2.49	< 0.65
Isophorone	78-59-1	0.36	0.00	12.55	7.66	9.02	0.19	7.31	2.62
2-Nitrophenol	88-75-5	< 1.17	< 1.39	< 6.28	< 0.87	< 5.10	< 0.93	< 4.18	< 1.06
2,4-Dimethylphenol	105-67-9	2.92	0.67	4.28	1.81	3.04	0.77	3.42	1.08
bis(2-Chloroethoxy)methane	111-91-1	< 0.61	< 0.72	< 3.25	< 0.49	< 2.64	< 0.52	< 2.17	< 0.58
Benzoic acid	65-85-0	21.35	13.91	93.29	6.30	205.50	0.00	106.71	6.73
2,4-Dichlorophenol	120-83-2	< 0.83	< 0.98	< 4.43	< 0.58	< 3.59	< 0.62	< 2.95	< 0.73
1,2,4-Trichlorobenzene	120-82-1	< 0.74	< 0.88	< 3.97	< 0.53	< 3.22	< 0.56	< 2.65	< 0.66
Naphthalene	91-20-3	20.42	8.15	19.05	14.95	17.70	7.00	19.06	10.04
4-Chloroaniline	106-47-8	< 0.55	< 0.66	< 2.98	< 0.40	< 2.42	< 0.42	< 1.99	< 0.49
Hexachlorobutadiene	87-68-3	< 1.39	< 1.65	< 7.45	< 0.87	< 6.05	< 0.93	< 4.96	< 1.15
4-Chloro-3-methylphenol	59-50-7	< 0.80	< 0.95	< 4.27	< 0.57	< 3.46	< 0.61	< 2.84	< 0.71
2-Methylnaphthalene	91-57-6	3.32	0.60	5.79	1.97	4.03	0.60	4.38	1.05
Hexachlorocyclopentadiene	77-47-4	< 1.15	< 1.42	< 6.85	< 0.78	< 5.60	< 0.80	< 4.53	< 1.00
2,4,6-Trichlorophenol	88-06-2	< 0.99	< 1.22	< 5.89	< 0.74	< 4.81	< 0.76	< 3.90	< 0.91
2,4,5-Trichlorophenol	95-95-4	< 0.88	< 1.09	< 5.26	< 0.66	< 4.30	< 0.67	< 3.48	< 0.81
2-Chloronaphthalene	91-58-7	< 0.34	< 0.42	< 2.04	< 0.28	< 1.66	< 0.28	< 1.35	< 0.33
2-Nitroaniline	88-74-4	< 1.03	< 1.26	< 6.11	< 0.89	< 4.99	< 0.91	< 4.04	< 1.02
Dimethylphthalate	131-11-3	< 0.30	< 0.37	< 1.78	< 0.21	< 1.46	< 0.22	< 1.18	< 0.27
2,6-Dinitrotoluene	606-20-2	< 1.17	< 1.44	< 6.95	< 0.89	< 5.67	< 0.91	< 4.60	< 1.08
2,4-Dinitrotoluene	121-14-2	< 0.78	< 0.96	< 4.64	< 0.61	< 3.79	< 0.62	< 3.07	< 0.73
Acenaphthylene	208-96-8	0.96	0.21	2.03	0.28	2.68	0.12	1.89	0.21
3-Nitroaniline	99-09-2	< 0.90	< 1.10	< 5.33	< 0.73	< 4.35	< 0.74	< 3.53	< 0.86
Acenaphthene	83-32-9	< 0.34	< 0.42	< 2.03	0.07	< 1.66	< 0.29	< 1.34	< 0.26
2,4-Dinitrophenol	105-67-9	< 2.57	< 3.16	< 15.26	< 2.63	< 12.47	< 2.69	< 10.10	< 2.83
4-Nitrophenol	100-02-7	< 2.19	< 2.69	< 13.00	< 1.59	< 10.62	< 1.62	< 8.60	< 1.97
Dibenzofuran	132-64-9	0.50	< 0.29	0.92	0.06	0.68	0.05	0.70	< 0.13
Diethylphthalate	84-66-2	0.42	0.33	0.98	0.28	19.09	0.41	6.83	0.34
4-Chlorophenyl-phenylether	70005-72-3	< 0.64	< 0.78	< 3.79	< 0.43	< 3.09	< 0.44	< 2.51	< 0.55
Fluorene	86-73-7	0.68	< 0.40	< 1.96	< 0.24	< 1.60	< 0.25	< 1.42	< 0.30
4-Nitroaniline	100-01-6	< 0.87	< 1.06	< 5.14	< 0.77	< 4.20	< 0.79	< 3.40	< 0.88
4,6-Dinitro-2-methylphenol	534-52-1	< 1.17	< 1.75	< 9.28	< 1.70	< 7.81	< 1.72	< 6.09	< 1.72
4-Bromophenyl-phenylether	101-55-3	< 0.90	< 1.35	< 7.15	< 0.82	< 6.01	< 0.83	< 4.69	< 1.00
Hexachlorobenzene	118-74-1	< 0.66	< 0.98	< 5.22	< 0.61	< 4.39	< 0.62	< 3.42	< 0.74
Pentachlorophenol	87-86-5	< 0.97	< 1.44	< 7.68	< 1.15	4.29	< 1.16	< 4.31	< 1.25
Phenanthrene	85-01-8	0.39	< 0.24	1.65	< 0.18	0.95	< 0.18	1.00	< 0.20
Anthracene	120-12-7	< 0.16	< 0.24	< 1.28	< 0.18	< 1.08	< 0.18	< 0.84	< 0.20
Di-n-butylphthalate	84-74-2	0.00	0.00	0.00	0.00	0.00	22.53	0.00	7.51
Fluoranthene	206-44-0	0.29	< 0.20	3.86	< 0.16	1.57	< 0.17	1.91	< 0.17
Pyrene	129-00-0	1.56	0.11	22.03	0.07	9.44	0.09	11.01	0.09
Butylbenzylphthalate	85-68-7	0.31	< 0.22	< 1.15	0.13	< 1.00	0.17	< 0.82	< 0.17
3,3'-Dichlorobenzidine	91-94-1	< 0.35	< 0.50	< 2.60	< 0.32	< 2.26	< 0.33	< 1.74	< 0.39
bis(2-Ethylhexyl)phthalate	117-81-7	51.14	103.41	25.11	72.39	15.56	28.01	30.60	67.94

1 = TO14 Compounds 2 = Tentatively Identified Compounds

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TABLE B.3-2
MIXER CONTROL DEVICE SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1		Run 2		Run 3		AVERAGES	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet w/ non-detects	Oultet w/ non-detects
Speciated Semi (µg/m³)									
Benzo(a)anthracene	56-55-3	< 0.11	< 0.16	0.13	< 0.11	< 0.71	< 0.12	< 0.32	< 0.13
Chrysene	218-01-9	< 0.12	< 0.17	< 0.89	< 0.12	0.84	< 0.13	< 0.62	< 0.14
Di-n-octylphthalate	117-84-0	< 0.12	1.12	< 0.64	0.60	< 0.48	0.22	< 0.41	0.64
Benzo(b)fluoranthene	205-99-2	< 0.17	< 0.16	< 0.94	< 0.10	< 0.70	< 0.11	< 0.61	< 0.12
Benzo(k)fluoranthene	207-08-9	< 0.19	< 0.18	< 1.04	< 0.11	< 0.77	< 0.11	< 0.67	< 0.13
Benzo(a)pyrene	50-32-8	< 0.19	< 0.18	< 1.03	< 0.11	< 0.77	< 0.11	< 0.66	< 0.13
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.15	< 0.14	< 0.80	< 0.09	< 0.60	< 0.09	< 0.52	< 0.11
Dibenz(a,h)anthracene	53-90-3	< 0.19	< 0.18	< 1.04	< 0.11	< 0.77	< 0.12	< 0.67	< 0.14
Benzo(g,h,i)perylene	191-24-2	< 0.16	< 0.15	0.76	< 0.10	< 0.65	< 0.10	< 0.52	< 0.12
n-Nitrosodimethylamine	62-75-9	< 1.27	< 1.50	< 7.14	< 1.20	< 5.54	< 1.30	< 4.65	< 1.33
Cumene	98-82-8	0.43	0.43	< 1.72	0.66	< 1.34	0.59	< 1.16	0.56
Aniline	62-53-3	< 0.49	< 0.57	8.44	0.18	16.48	< 0.42	< 8.47	< 0.39
Benzyl Chloride	100-44-7	< 0.44	< 0.52	< 2.48	< 0.34	< 1.93	< 0.37	< 1.62	< 0.41
Acetophenone	98-86-2	25.18	6.06	12.53	7.29	14.14	5.43	17.28	6.26
n-Nitrosomorpholine	59-89-2	< 1.12	< 1.31	< 6.28	< 0.91	< 4.88	< 0.98	< 4.09	< 1.07
o-Toluidine	95-53-4	< 0.53	< 0.62	< 2.98	< 0.39	< 2.31	< 0.43	< 1.94	< 0.48
N,N-Dimethylaniline	121-69-7	< 0.47	< 0.56	< 2.53	< 0.35	< 2.05	< 0.37	< 1.68	< 0.43
1,2-Dibromo-3-chloropropane	96-12-8	< 1.54	< 1.82	< 8.68	< 1.11	< 6.74	< 1.20	< 5.65	< 1.37
o-Anisidine	90-04-0	< 0.88	< 1.05	< 4.76	< 0.61	< 3.86	< 0.66	< 3.17	< 0.77
1,4-Phenylenediamine	106-50-3	< 0.94	< 1.12	< 5.08	< 0.61	< 4.12	< 0.65	< 3.38	< 0.79
N,N-Diethylaniline	91-66-7	< 0.43	< 0.51	< 2.43	< 0.30	< 1.89	< 0.33	< 1.58	< 0.38
a,a,a-Trichlorotoluene	98-07-7	< 0.67	< 0.80	< 3.60	< 0.42	< 2.92	< 0.45	< 2.40	< 0.56
Hydroquinone	123-31-9	< 0.72	< 0.85	< 3.86	< 0.53	< 3.13	< 0.56	< 2.57	< 0.65
2-Chloroacetophenone	1341-24-8	< 0.34	< 0.40	< 1.82	< 0.25	< 1.48	< 0.26	< 1.21	< 0.30
Biphenyl	92-52-4	1.15	0.24	1.54	0.47	1.37	< 0.25	1.35	< 0.32
Trifluralin	1582-09-8	< 1.49	< 1.83	< 8.88	< 0.91	< 7.25	< 0.94	< 5.87	< 1.23
4-Aminobiphenyl	92-67-1	< 0.21	< 0.32	< 1.68	< 0.26	< 1.41	< 0.26	< 1.10	< 0.28
Pentachloronitrobenzene	82-68-8	< 1.99	< 2.96	< 15.73	< 2.04	< 13.23	< 2.06	< 10.31	< 2.35
4-Nitrobiphenyl	92-93-3	< 0.41	< 0.61	< 3.25	< 0.53	< 2.74	< 0.54	< 2.13	< 0.56
Benzidine	92-87-5	< 0.20	< 0.29	< 1.50	< 0.18	< 1.30	< 0.19	< 1.00	< 0.22
4,4'-Methylenedianiline	101-77-9	< 0.40	< 0.57	< 2.94	< 0.37	< 2.56	< 0.38	< 1.97	< 0.44
Dimethylaminoazobenzene	60-11-7	< 0.24	< 0.34	< 1.75	< 0.27	< 1.52	< 0.29	< 1.17	< 0.30
3,3'-Dimethylbenzidine	119-93-7	< 0.19	< 0.28	< 1.43	< 0.18	< 1.24	< 0.18	< 0.95	< 0.21
3,3'-Dimethoxybenzidine	119-90-4	< 0.57	< 0.80	< 4.16	< 0.46	< 3.62	< 0.49	< 2.78	< 0.58
Methylene bis-chloroaniline	101-14-4	< 0.70	< 0.98	< 5.10	< 0.63	< 4.43	< 0.66	< 3.41	< 0.76
3-Furaldehyde	498-60-2	< 1.22	< 1.43	< 6.82	< 1.09	< 5.30	< 1.17	< 4.45	< 1.23
2-Furaldehyde	98-01-1	6.06	3.46	12.11	13.84	9.69	2.98	9.28	6.76
Cyclohexylamine	108-91-8	< 0.80	< 0.93	< 4.46	< 0.73	< 3.46	< 0.79	< 2.91	< 0.81
N-Nitrosodiethylamine	55-18-5	< 1.31	< 1.54	< 7.37	< 1.16	< 5.72	< 1.25	< 4.80	< 1.32
Cyclohexanone	108-94-1	< 0.64	< 0.75	< 3.59	< 0.67	2.82	< 0.72	< 2.35	< 0.71
1,3-Cyclooctadiene	1700-10-3	< 0.81	< 0.95	< 4.53	< 0.70	< 3.51	< 0.76	< 2.95	< 0.80
1,5-Cyclooctadiene	111-78-4	< 1.76	1.57	< 9.88	1.81	< 7.67	2.97	< 6.44	2.12
Camphene	79-92-5	< 0.89	< 1.05	< 5.01	< 0.70	< 3.89	< 0.76	< 3.26	< 0.84
Benzaldehyde	100-52-7	7.39	5.42	7.92	6.08	8.29	4.59	7.87	5.36
Benzonitrile	100-47-0	0.75	0.52	0.68	0.66	0.75	0.44	0.72	0.54
Isooctanol	26952-21-6	< 7.28	< 8.57	< 40.89	< 7.30	< 31.75	< 7.90	< 26.64	< 7.92
1,2,4-Trimethylbenzene	95-63-6	4.07	2.75	5.58	8.96	9.82	6.12	6.49	5.95
3-Methylstyrene	100-80-1	< 0.52	< 0.61	< 2.94	< 0.43	< 2.28	< 0.46	< 1.91	< 0.50
4-Methylstyrene	622-97-9	< 0.54	< 0.64	< 3.04	< 0.45	< 2.36	< 0.49	< 1.98	< 0.52
4-Chlorostyrene	1073-67-2	< 0.64	< 0.76	< 3.60	< 0.51	< 2.80	< 0.55	< 2.35	< 0.61
1-Dodecene	112-41-4	< 2.79	< 3.32	< 14.99	< 2.38	< 12.17	< 2.55	< 9.98	< 2.75
Phthalimide	85-41-6	10.49	< 1.27	9.81	< 0.98	14.90	< 0.99	11.73	< 1.08
Diphenylamine	122-39-4	1.64	0.21	2.45	0.28	4.53	0.27	2.88	0.26
Total Detected		455.03	420.92	509.40	418.36	679.69	254.98	548.04	364.75
Total with non-detects		< 523.60	< 505.47	< 922.71	< 475.23	< 998.62	< 316.39	< 814.98	< 432.37

1 = TO14 Compounds 2 = Tentatively Identified Compounds

TRC

TABLE B.3-2
MIXER CONTROL DEVICE SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1		Run 2		Run 3		AVERAGES	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet w/ non-detects	Oultet w/ non-detects
Speciated Semi (lb/hr)									
Pyridine	110-86-1	1.31E-04	1.59E-04	6.58E-05	1.94E-04	1.73E-04	1.25E-04	1.23E-04	1.59E-04
Phenol	108-95-2	6.89E-03	7.42E-03	5.92E-03	7.34E-03	6.72E-03	4.59E-03	6.51E-03	6.45E-03
bis(2-Chloroethyl)ether	111-44-4	< 2.03E-05	< 2.66E-05	< 1.13E-04	< 1.93E-05	< 8.65E-05	< 2.07E-05	< 7.33E-05	< 2.22E-05
2-Chlorophenol	95-57-8	< 1.70E-05	< 2.23E-05	< 9.46E-05	< 1.41E-05	< 7.23E-05	< 1.53E-05	< 6.13E-05	< 1.72E-05
1,3-Dichlorobenzene	541-73-1	< 1.65E-05	< 2.16E-05	< 9.19E-05	< 1.36E-05	< 7.02E-05	< 1.46E-05	< 5.95E-05	< 1.66E-05
1,4-Dichlorobenzene	106-46-7	< 1.62E-05	< 2.14E-05	< 9.04E-05	< 1.35E-05	< 6.91E-05	< 1.45E-05	< 5.86E-05	< 1.65E-05
1,2-Dichlorobenzene	95-50-1	< 1.80E-05	< 2.37E-05	< 1.00E-04	< 1.47E-05	< 7.66E-05	< 1.58E-05	< 6.49E-05	< 1.80E-05
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.59E-05	< 2.09E-05	< 8.84E-05	< 1.68E-05	< 6.75E-05	< 1.81E-05	< 5.73E-05	< 1.86E-05
Benzyl alcohol	100-51-6	2.51E-05	2.72E-05	< 1.61E-04	8.10E-06	1.52E-04	1.37E-05	< 1.13E-04	1.63E-05
2-Methylphenol	95-48-7	1.79E-04	1.02E-04	1.77E-04	1.38E-04	1.96E-04	1.06E-04	1.84E-04	1.16E-04
3/4-Methylphenol	108-39-4/106-44-5	3.72E-04	1.66E-04	4.18E-04	2.87E-04	4.19E-04	1.76E-04	4.03E-04	2.10E-04
N-Nitroso-di-n-propylamine	621-64-7	< 3.34E-05	< 4.40E-05	< 1.86E-04	< 3.16E-05	< 1.43E-04	< 3.40E-05	< 1.21E-04	< 3.66E-05
Hexachloroethane	67-72-1	< 3.36E-05	< 4.42E-05	< 1.87E-04	< 2.77E-05	< 1.43E-04	< 2.97E-05	< 1.21E-04	< 3.39E-05
Nitrobenzene	98-95-3	< 1.80E-05	< 2.39E-05	< 9.61E-05	< 1.58E-05	< 7.68E-05	< 1.70E-05	< 6.36E-05	< 1.89E-05
Isophorone	78-59-1	9.44E-06	0.00E+00	3.23E-04	2.25E-04	2.29E-04	5.61E-06	1.87E-04	7.69E-05
2-Nitrophenol	88-75-5	< 3.02E-05	< 4.03E-05	< 1.61E-04	< 2.55E-05	< 1.29E-04	< 2.71E-05	< 1.07E-04	< 3.10E-05
2,4-Dimethylphenol	105-67-9	7.56E-05	1.93E-05	1.10E-04	5.32E-05	7.71E-05	2.24E-05	8.76E-05	3.17E-05
bis(2-Chloroethoxy)methane	111-91-1	< 1.57E-05	< 2.09E-05	< 8.36E-05	< 1.43E-05	< 6.68E-05	< 1.53E-05	< 5.54E-05	< 1.68E-05
Benzoic acid	65-85-0	5.53E-04	4.03E-04	2.40E-03	1.85E-04	5.20E-03	0.00E+00	2.72E-03	1.96E-04
2,4-Dichlorophenol	120-83-2	< 2.14E-05	< 2.85E-05	< 1.14E-04	< 1.70E-05	< 9.10E-05	< 1.81E-05	< 7.54E-05	< 2.12E-05
1,2,4-Trichlorobenzene	120-82-1	< 1.92E-05	< 2.55E-05	< 1.02E-04	< 1.54E-05	< 8.16E-05	< 1.64E-05	< 6.76E-05	< 1.91E-05
Naphthalene	91-20-3	5.29E-04	2.36E-04	4.90E-04	4.39E-04	4.48E-04	2.05E-04	4.89E-04	2.93E-04
4-Chloroaniline	106-47-8	< 1.44E-05	< 1.92E-05	< 7.67E-05	< 1.17E-05	< 6.14E-05	< 1.24E-05	< 5.08E-05	< 1.44E-05
Hexachlorobutadiene	87-68-3	< 3.59E-05	< 4.79E-05	< 1.92E-04	< 2.56E-05	< 1.53E-04	< 2.73E-05	< 1.27E-04	< 3.36E-05
4-Chloro-3-methylphenol	59-50-7	< 2.06E-05	< 2.74E-05	< 1.10E-04	< 1.68E-05	< 8.77E-05	< 1.79E-05	< 7.27E-05	< 2.07E-05
2-Methylnaphthalene	91-57-6	8.59E-05	1.74E-05	1.49E-04	5.77E-05	1.02E-04	1.75E-05	1.12E-04	3.09E-05
Hexachlorocyclopentadiene	77-47-4	< 2.99E-05	< 4.11E-05	< 1.76E-04	< 2.30E-05	< 1.42E-04	< 2.33E-05	< 1.16E-04	< 2.91E-05
2,4,6-Trichlorophenol	88-06-2	< 2.57E-05	< 3.53E-05	< 1.51E-04	< 2.19E-05	< 1.22E-04	< 2.22E-05	< 9.97E-05	< 2.64E-05
2,4,5-Trichlorophenol	95-95-4	< 2.29E-05	< 3.15E-05	< 1.35E-04	< 1.94E-05	< 1.09E-04	< 1.97E-05	< 8.90E-05	< 2.36E-05
2-Chloronaphthalene	91-58-7	< 8.86E-06	< 1.22E-05	< 5.24E-05	< 8.10E-06	< 4.21E-05	< 8.22E-06	< 3.44E-05	< 9.52E-06
2-Nitroaniline	88-74-4	< 2.66E-05	< 3.66E-05	< 1.57E-04	< 2.61E-05	< 1.26E-04	< 2.65E-05	< 1.03E-04	< 2.97E-05
Dimethylphthalate	131-11-3	< 7.80E-06	< 1.07E-05	< 4.58E-05	< 6.30E-06	< 3.69E-05	< 6.39E-06	< 3.02E-05	< 7.79E-06
2,6-Dinitrotoluene	606-20-2	< 3.02E-05	< 4.17E-05	< 1.79E-04	< 2.62E-05	< 1.44E-04	< 2.66E-05	< 1.17E-04	< 3.15E-05
2,4-Dinitrotoluene	121-14-2	< 2.02E-05	< 2.78E-05	< 1.19E-04	< 1.80E-05	< 9.60E-05	< 1.83E-05	< 7.85E-05	< 2.14E-05
Acenaphthylene	208-96-8	2.48E-05	6.05E-06	5.22E-05	8.36E-06	6.78E-05	3.65E-06	4.82E-05	6.02E-06
3-Nitroaniline	99-09-2	< 2.32E-05	< 3.19E-05	< 1.37E-04	< 2.14E-05	< 1.10E-04	< 2.17E-05	< 9.02E-05	< 2.50E-05
Acenaphthene	83-32-9	< 8.86E-06	< 1.21E-05	< 5.22E-05	1.93E-06	< 4.20E-05	< 8.48E-06	< 3.43E-05	< 7.50E-06
2,4-Dinitrophenol	105-67-9	< 6.65E-05	< 9.15E-05	< 3.92E-04	< 7.73E-05	< 3.16E-04	< 7.85E-05	< 2.58E-04	< 8.25E-05
4-Nitrophenol	100-02-7	< 5.66E-05	< 7.79E-05	< 3.34E-04	< 4.67E-05	< 2.69E-04	< 4.75E-05	< 2.20E-04	< 5.74E-05
Dibenzofuran	132-64-9	1.29E-05	< 8.50E-06	2.37E-05	1.67E-06	1.72E-05	1.57E-06	1.79E-05	< 3.91E-06
Diethylphthalate	84-66-2	1.08E-05	9.53E-06	2.51E-05	8.36E-06	4.83E-04	1.21E-05	1.73E-04	1.00E-05
4-Chlorophenyl-phenylether	70005-72-3	< 1.65E-05	< 2.27E-05	< 9.73E-05	< 1.26E-05	< 7.83E-05	< 1.28E-05	< 6.41E-05	< 1.60E-05
Fluorene	86-73-7	1.77E-05	< 1.17E-05	< 5.04E-05	< 7.07E-06	< 4.06E-05	< 7.17E-06	< 3.62E-05	< 8.65E-06
4-Nitroaniline	100-01-6	< 2.24E-05	< 3.08E-05	< 1.32E-04	< 2.28E-05	< 1.06E-04	< 2.31E-05	< 8.70E-05	< 2.55E-05
4,6-Dinitro-2-methylphenol	534-52-1	< 3.03E-05	< 5.06E-05	< 2.39E-04	< 5.00E-05	< 1.98E-04	< 5.04E-05	< 1.56E-04	< 5.03E-05
4-Bromophenyl-phenylether	101-55-3	< 2.34E-05	< 3.90E-05	< 1.84E-04	< 2.42E-05	< 1.52E-04	< 2.44E-05	< 1.20E-04	< 2.92E-05
Hexachlorobenzene	118-74-1	< 1.70E-05	< 2.85E-05	< 1.34E-04	< 1.80E-05	< 1.11E-04	< 1.81E-05	< 8.75E-05	< 2.15E-05
Pentachlorophenol	87-86-5	< 2.51E-05	< 4.18E-05	< 1.98E-04	< 3.37E-05	1.09E-04	< 3.39E-05	< 1.10E-04	< 3.65E-05
Phenanthrene	85-01-8	1.02E-05	< 6.82E-06	4.23E-05	< 5.27E-06	2.40E-05	< 5.22E-06	2.55E-05	< 5.77E-06
Anthracene	120-12-7	< 4.24E-06	< 6.95E-06	< 3.30E-05	< 5.27E-06	< 2.73E-05	< 5.35E-06	< 2.15E-05	< 5.86E-06
Di-n-butylphthalate	84-74-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04	0.00E+00	2.20E-04
Fluoranthene	206-44-0	7.61E-06	< 5.66E-06	9.91E-05	< 4.76E-06	3.98E-05	< 4.83E-06	4.89E-05	< 5.08E-06
Pyrene	129-00-0	4.04E-05	3.09E-06	5.66E-04	2.06E-06	2.39E-04	2.74E-06	2.82E-04	2.63E-06
Butylbenzylphthalate	85-68-7	7.99E-06	< 6.44E-06	< 2.96E-05	3.86E-06	< 2.53E-05	4.83E-06	< 2.10E-05	< 5.04E-06
3,3'-Dichlorobenzidine	91-94-1	< 9.15E-06	< 1.45E-05	< 6.68E-05	< 9.39E-06	< 5.72E-05	< 9.78E-06	< 4.44E-05	< 1.12E-05
bis(2-Ethylhexyl)phthalate	117-81-7	1.32E-03	3.00E-03	6.46E-04	2.13E-03	3.94E-04	8.19E-04	7.88E-04	1.98E-03

1 = TO14 Compounds 2 = Tentatively Identified Compounds

TRC

TABLE B.3-2
MIXER CONTROL DEVICE SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGES Inlet w/ non-detects	AVERAGES Oultet w/ non-detects
Speciated Semi (lb/hr)									
Benzo(a)anthracene	56-55-3	< 2.89E-06	< 4.63E-06	3.22E-06	< 3.22E-06	< 1.80E-05	< 3.39E-06	< 8.05E-06	< 3.75E-06
Chrysene	218-01-9	< 3.08E-06	< 4.89E-06	< 2.28E-05	< 3.60E-06	2.13E-05	< 3.78E-06	< 1.57E-05	< 4.09E-06
Di-n-octylphthalate	117-84-0	< 3.08E-06	3.24E-05	< 1.66E-05	1.75E-05	< 1.21E-05	6.39E-06	< 1.06E-05	1.88E-05
Benzo(b)fluoranthene	205-99-2	< 4.53E-06	< 4.76E-06	< 2.42E-05	< 2.96E-06	< 1.77E-05	< 3.13E-06	< 1.55E-05	< 3.62E-06
Benzo(k)fluoranthene	207-08-9	< 4.91E-06	< 5.15E-06	< 2.67E-05	< 3.09E-06	< 1.96E-05	< 3.13E-06	< 1.71E-05	< 3.79E-06
Benzo(a)pyrene	50-32-8	< 4.91E-06	< 5.15E-06	< 2.66E-05	< 3.22E-06	< 1.95E-05	< 3.26E-06	< 1.70E-05	< 3.88E-06
Indeno(1,2,3-cd)pyrene	193-39-5	< 3.85E-06	< 3.99E-06	< 2.06E-05	< 2.57E-06	< 1.52E-05	< 2.74E-06	< 1.32E-05	< 3.10E-06
Dibenz(a,h)anthracene	53-90-3	< 4.91E-06	< 5.28E-06	< 2.68E-05	< 3.34E-06	< 1.96E-05	< 3.52E-06	< 1.71E-05	< 4.05E-06
Benzo(g,h,i)perylene	191-24-2	< 4.14E-06	< 4.38E-06	1.96E-05	< 2.83E-06	< 1.64E-05	< 3.00E-06	< 1.34E-05	< 3.40E-06
n-Nitrosodimethylamine	62-75-9	< 3.29E-05	< 4.34E-05	< 1.84E-04	< 3.52E-05	< 1.40E-04	< 3.80E-05	< 1.19E-04	< 3.89E-05
Cumene	98-82-8	1.11E-05	1.24E-05	< 4.42E-05	1.94E-05	< 3.39E-05	1.73E-05	< 2.97E-05	1.64E-05
Aniline	62-53-3	< 1.26E-05	< 1.66E-05	2.17E-04	5.27E-06	4.17E-04	< 1.24E-05	< 2.16E-04	< 1.14E-05
Benzyl Chloride	100-44-7	< 1.15E-05	< 1.51E-05	< 6.38E-05	< 9.90E-06	< 4.88E-05	< 1.07E-05	< 4.14E-05	< 1.19E-05
Acetophenone	98-86-2	6.52E-04	1.75E-04	3.22E-04	2.14E-04	3.58E-04	1.59E-04	4.44E-04	1.83E-04
n-Nitrosomorpholine	59-89-2	< 2.90E-05	< 3.81E-05	< 1.62E-04	< 2.66E-05	< 1.24E-04	< 2.87E-05	< 1.05E-04	< 3.11E-05
o-Toluidine	95-53-4	< 1.38E-05	< 1.80E-05	< 7.65E-05	< 1.16E-05	< 5.85E-05	< 1.25E-05	< 4.96E-05	< 1.40E-05
N,N-Dimethylaniline	121-69-7	< 1.22E-05	< 1.62E-05	< 6.51E-05	< 1.03E-05	< 5.20E-05	< 1.10E-05	< 4.31E-05	< 1.25E-05
1,2-Dibromo-3-chloropropane	96-12-8	< 4.00E-05	< 5.27E-05	< 2.23E-04	< 3.25E-05	< 1.71E-04	< 3.50E-05	< 1.45E-04	< 4.01E-05
o-Anisidine	90-04-0	< 2.29E-05	< 3.05E-05	< 1.22E-04	< 1.80E-05	< 9.78E-05	< 1.92E-05	< 8.11E-05	< 2.26E-05
1,4-Phenylenediamine	106-50-3	< 2.45E-05	< 3.26E-05	< 1.31E-04	< 1.79E-05	< 1.04E-04	< 1.90E-05	< 8.65E-05	< 2.32E-05
N,N-Diethylaniline	91-66-7	< 1.12E-05	< 1.47E-05	< 6.24E-05	< 8.87E-06	< 4.78E-05	< 9.52E-06	< 4.04E-05	< 1.10E-05
a,a,a-Trichlorotoluene	98-07-7	< 1.73E-05	< 2.32E-05	< 9.26E-05	< 1.23E-05	< 7.40E-05	< 1.32E-05	< 6.13E-05	< 1.62E-05
Hydroquinone	123-31-9	< 1.86E-05	< 2.47E-05	< 9.91E-05	< 1.54E-05	< 7.93E-05	< 1.64E-05	< 6.57E-05	< 1.89E-05
2-Chloroacetophenone	1341-24-8	< 8.76E-06	< 1.17E-05	< 4.68E-05	< 7.20E-06	< 3.74E-05	< 7.70E-06	< 3.10E-05	< 8.87E-06
Biphenyl	92-52-4	2.97E-05	6.82E-06	3.97E-05	1.39E-05	3.48E-05	< 7.17E-06	3.47E-05	< 9.30E-06
Trifluralin	1582-09-8	< 3.87E-05	< 5.32E-05	< 2.28E-04	< 2.69E-05	< 1.84E-04	< 2.74E-05	< 1.50E-04	< 3.58E-05
4-Aminobiphenyl	92-67-1	< 5.49E-06	< 9.14E-06	< 4.31E-05	< 7.59E-06	< 3.57E-05	< 7.70E-06	< 2.81E-05	< 8.14E-06
Pentachloronitrobenzene	82-68-8	< 5.14E-05	< 8.57E-05	< 4.04E-04	< 5.99E-05	< 3.35E-04	< 6.03E-05	< 2.64E-04	< 6.86E-05
4-Nitrobiphenyl	92-93-3	< 1.06E-05	< 1.78E-05	< 8.36E-05	< 1.56E-05	< 6.93E-05	< 1.57E-05	< 5.45E-05	< 1.63E-05
Benzidine	92-87-5	< 5.30E-06	< 8.37E-06	< 3.85E-05	< 5.40E-06	< 3.30E-05	< 5.61E-06	< 2.56E-05	< 6.46E-06
4,4'-Methylenedianiline	101-77-9	< 1.04E-05	< 1.65E-05	< 7.57E-05	< 1.08E-05	< 6.47E-05	< 1.12E-05	< 5.03E-05	< 1.28E-05
Dimethylaminoazobenzene	60-11-7	< 6.16E-06	< 9.78E-06	< 4.50E-05	< 7.97E-06	< 3.85E-05	< 8.35E-06	< 2.99E-05	< 8.70E-06
3,3'-Dimethylbenzidine	119-93-7	< 5.01E-06	< 7.98E-06	< 3.66E-05	< 5.14E-06	< 3.14E-05	< 5.35E-06	< 2.43E-05	< 6.16E-06
3,3'-Dimethoxybenzidine	119-90-4	< 1.46E-05	< 2.32E-05	< 1.07E-04	< 1.36E-05	< 9.16E-05	< 1.42E-05	< 7.11E-05	< 1.70E-05
Methylene bis-chloroaniline	101-14-4	< 1.80E-05	< 2.85E-05	< 1.31E-04	< 1.86E-05	< 1.12E-04	< 1.93E-05	< 8.72E-05	< 2.21E-05
3-Furaldehyde	498-60-2	< 3.15E-05	< 4.15E-05	< 1.75E-04	< 3.19E-05	< 1.34E-04	< 3.43E-05	< 1.14E-04	< 3.59E-05
2-Furaldehyde	98-01-1	1.57E-04	1.00E-04	3.11E-04	4.07E-04	2.45E-04	8.70E-05	2.38E-04	1.98E-04
Cyclohexylamine	108-91-8	< 2.06E-05	< 2.70E-05	< 1.15E-04	< 2.14E-05	< 8.77E-05	< 2.30E-05	< 7.44E-05	< 2.38E-05
N-Nitrosodiethylamine	55-18-5	< 3.40E-05	< 4.47E-05	< 1.89E-04	< 3.41E-05	< 1.45E-04	< 3.67E-05	< 1.23E-04	< 3.85E-05
Cyclohexanone	108-94-1	< 1.66E-05	< 2.18E-05	< 9.22E-05	< 1.95E-05	7.14E-05	< 2.10E-05	< 6.01E-05	< 2.08E-05
1,3-Cyclooctadiene	1700-10-3	< 2.09E-05	< 2.74E-05	< 1.16E-04	< 2.07E-05	< 8.90E-05	< 2.23E-05	< 7.54E-05	< 2.35E-05
1,5-Cyclooctadiene	111-78-4	< 4.56E-05	4.54E-05	< 2.54E-04	5.32E-05	< 1.94E-04	8.69E-05	< 1.65E-04	6.19E-05
Camphene	79-92-5	< 2.31E-05	< 3.04E-05	< 1.29E-04	< 2.07E-05	< 9.84E-05	< 2.23E-05	< 8.34E-05	< 2.45E-05
Benzaldehyde	100-52-7	1.92E-04	1.57E-04	2.04E-04	1.79E-04	2.10E-04	1.34E-04	2.02E-04	1.57E-04
Benzonitrile	100-47-0	1.95E-05	1.51E-05	1.74E-05	1.93E-05	1.89E-05	1.29E-05	1.86E-05	1.58E-05
Isooctanol	26952-21-6	< 1.89E-04	< 2.48E-04	< 1.05E-03	< 2.14E-04	< 8.04E-04	< 2.31E-04	< 6.81E-04	< 2.31E-04
1,2,4-Trimethylbenzene	95-63-6	1.05E-04	7.98E-05	1.43E-04	2.63E-04	2.49E-04	1.79E-04	1.66E-04	1.74E-04
3-Methylstyrene	100-80-1	< 1.36E-05	< 1.78E-05	< 7.55E-05	< 1.26E-05	< 5.77E-05	< 1.36E-05	< 4.89E-05	< 1.46E-05
4-Methylstyrene	622-97-9	< 1.40E-05	< 1.84E-05	< 7.81E-05	< 1.31E-05	< 5.97E-05	< 1.42E-05	< 5.06E-05	< 1.52E-05
4-Chlorostyrene	1073-67-2	< 1.66E-05	< 2.19E-05	< 9.26E-05	< 1.50E-05	< 7.09E-05	< 1.62E-05	< 6.00E-05	< 1.77E-05
1-Dodecene	112-41-4	< 7.22E-05	< 9.63E-05	< 3.86E-04	< 7.00E-05	< 3.08E-04	< 7.45E-05	< 2.55E-04	< 8.02E-05
Phthalimide	85-41-6	2.72E-04	< 3.67E-05	2.52E-04	< 2.87E-05	3.77E-04	< 2.91E-05	3.00E-04	< 3.15E-05
Diphenylamine	122-39-4	4.26E-05	6.18E-06	6.31E-05	8.23E-06	1.15E-04	7.96E-06	7.34E-05	7.46E-06
Total Detected		1.18E-02	1.22E-02	1.31E-02	1.23E-02	1.72E-02	7.46E-03	1.40E-02	1.06E-02
Total with non-detects		< 1.36E-02	< 1.46E-02	< 2.37E-02	< 1.40E-02	< 2.53E-02	< 9.25E-03	< 2.09E-02	< 1.26E-02

1 = TO14 Compounds 2 = Tentatively Identified Compounds

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TABLE B.3-2
MIXER CONTROL DEVICE SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGES Inlet w/ non-detects	AVERAGES Outlet w/ non-detects
Speciated Semi (lb/lb rubber)									
Pyridine	110-86-1	1.81E-08	2.20E-08	7.02E-09	2.07E-08	1.91E-08	1.38E-08	1.47E-08	1.88E-08
Phenol	108-95-2	9.52E-07	1.03E-06	6.31E-07	7.82E-07	7.42E-07	5.07E-07	7.75E-07	7.71E-07
bis(2-Chloroethyl)ether	111-44-4	< 2.81E-09	< 3.68E-09	< 1.21E-08	< 2.06E-09	< 9.55E-09	< 2.29E-09	< 8.14E-09	< 2.68E-09
2-Chlorophenol	95-57-8	< 2.34E-09	< 3.08E-09	< 1.01E-08	< 1.51E-09	< 7.99E-09	< 1.69E-09	< 6.80E-09	< 2.09E-09
1,3-Dichlorobenzene	541-73-1	< 2.27E-09	< 2.99E-09	< 9.79E-09	< 1.45E-09	< 7.75E-09	< 1.61E-09	< 6.61E-09	< 2.02E-09
1,4-Dichlorobenzene	106-46-7	< 2.23E-09	< 2.95E-09	< 9.64E-09	< 1.44E-09	< 7.64E-09	< 1.60E-09	< 6.50E-09	< 2.00E-09
1,2-Dichlorobenzene	95-50-1	< 2.49E-09	< 3.27E-09	< 1.07E-08	< 1.56E-09	< 8.46E-09	< 1.74E-09	< 7.21E-09	< 2.19E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.19E-09	< 2.88E-09	< 9.42E-09	< 1.80E-09	< 7.46E-09	< 2.00E-09	< 6.36E-09	< 2.23E-09
Benzyl alcohol	100-51-6	3.47E-09	3.75E-09	< 1.71E-08	8.64E-10	1.68E-08	1.51E-09	< 1.25E-08	2.04E-09
2-Methylphenol	95-48-7	2.47E-08	1.41E-08	1.89E-08	1.47E-08	2.17E-08	1.18E-08	2.18E-08	1.35E-08
3/4-Methylphenol	108-39-4/106-44-5	5.14E-08	2.29E-08	4.46E-08	3.06E-08	4.63E-08	1.95E-08	4.74E-08	2.43E-08
N-Nitroso-di-n-propylamine	621-64-7	< 4.62E-09	< 6.08E-09	< 1.99E-08	< 3.37E-09	< 1.57E-08	< 3.76E-09	< 1.34E-08	< 4.40E-09
Hexachloroethane	67-72-1	< 4.64E-09	< 6.10E-09	< 2.00E-08	< 2.95E-09	< 1.58E-08	< 3.29E-09	< 1.35E-08	< 4.11E-09
Nitrobenzene	98-95-3	< 2.49E-09	< 3.31E-09	< 1.02E-08	< 1.69E-09	< 8.48E-09	< 1.87E-09	< 7.07E-09	< 2.29E-09
Isophorone	78-59-1	1.30E-09	0.00E+00	3.44E-08	2.40E-08	2.52E-08	6.20E-10	2.03E-08	8.20E-09
2-Nitrophenol	88-75-5	< 4.18E-09	< 5.57E-09	< 1.72E-08	< 2.71E-09	< 1.43E-08	< 3.00E-09	< 1.19E-08	< 3.76E-09
2,4-Dimethylphenol	105-67-9	1.04E-08	2.67E-09	1.17E-08	5.68E-09	8.52E-09	2.48E-09	1.02E-08	3.61E-09
bis(2-Chloroethoxy)methane	111-91-1	< 2.17E-09	< 2.88E-09	< 8.91E-09	< 1.52E-09	< 7.38E-09	< 1.69E-09	< 6.15E-09	< 2.03E-09
Benzoic acid	65-85-0	7.64E-08	5.57E-08	2.56E-07	1.97E-08	5.75E-07	0.00E+00	3.02E-07	2.51E-08
2,4-Dichlorophenol	120-83-2	< 2.95E-09	< 3.93E-09	< 1.21E-08	< 1.81E-09	< 1.01E-08	< 2.00E-09	< 8.38E-09	< 2.58E-09
1,2,4-Trichlorobenzene	120-82-1	< 2.65E-09	< 3.52E-09	< 1.09E-08	< 1.65E-09	< 9.01E-09	< 1.82E-09	< 7.52E-09	< 2.33E-09
Naphthalene	91-20-3	7.30E-08	3.26E-08	5.22E-08	4.68E-08	4.95E-08	2.26E-08	5.83E-08	3.40E-08
4-Chloroaniline	106-47-8	< 1.98E-09	< 2.65E-09	< 8.18E-09	< 1.25E-09	< 6.78E-09	< 1.37E-09	< 5.65E-09	< 1.76E-09
Hexachlorobutadiene	87-68-3	< 4.96E-09	< 6.61E-09	< 2.04E-08	< 2.73E-09	< 1.69E-08	< 3.01E-09	< 1.41E-08	< 4.12E-09
4-Chloro-3-methylphenol	59-50-7	< 2.85E-09	< 3.79E-09	< 1.17E-08	< 1.80E-09	< 9.69E-09	< 1.97E-09	< 8.08E-09	< 2.52E-09
2-Methylnaphthalene	91-57-6	1.19E-08	2.40E-09	1.59E-08	6.16E-09	1.13E-08	1.93E-09	1.30E-08	3.50E-09
Hexachlorocyclopentadiene	77-47-4	< 4.12E-09	< 5.67E-09	< 1.88E-08	< 2.45E-09	< 1.57E-08	< 2.58E-09	< 1.29E-08	< 3.57E-09
2,4,6-Trichlorophenol	88-06-2	< 3.55E-09	< 4.87E-09	< 1.61E-08	< 2.33E-09	< 1.35E-08	< 2.45E-09	< 1.11E-08	< 3.22E-09
2,4,5-Trichlorophenol	95-95-4	< 3.17E-09	< 4.36E-09	< 1.44E-08	< 2.07E-09	< 1.20E-08	< 2.18E-09	< 9.87E-09	< 2.87E-09
2-Chloronaphthalene	91-58-7	< 1.22E-09	< 1.69E-09	< 5.58E-09	< 8.64E-10	< 4.65E-09	< 9.08E-10	< 3.82E-09	< 1.15E-09
2-Nitroaniline	88-74-4	< 3.67E-09	< 5.05E-09	< 1.67E-08	< 2.78E-09	< 1.39E-08	< 2.92E-09	< 1.15E-08	< 3.59E-09
Dimethylphthalate	131-11-3	< 1.08E-09	< 1.48E-09	< 4.89E-09	< 6.72E-10	< 4.08E-09	< 7.06E-10	< 3.35E-09	< 9.51E-10
2,6-Dinitrotoluene	606-20-2	< 4.18E-09	< 5.76E-09	< 1.90E-08	< 2.80E-09	< 1.59E-08	< 2.94E-09	< 1.30E-08	< 3.83E-09
2,4-Dinitrotoluene	121-14-2	< 2.79E-09	< 3.84E-09	< 1.27E-08	< 1.92E-09	< 1.06E-08	< 2.02E-09	< 8.70E-09	< 2.59E-09
Acenaphthylene	208-96-8	3.42E-09	8.36E-10	5.56E-09	8.91E-10	7.49E-09	4.03E-10	5.49E-09	7.10E-10
3-Nitroaniline	99-09-2	< 3.21E-09	< 4.41E-09	< 1.46E-08	< 2.28E-09	< 1.22E-08	< 2.39E-09	< 1.00E-08	< 3.03E-09
Acenaphthene	83-32-9	< 1.22E-09	< 1.67E-09	< 5.56E-09	2.06E-10	< 4.64E-09	< 9.37E-10	< 3.81E-09	< 9.38E-10
2,4-Dinitrophenol	105-67-9	< 9.19E-09	< 1.26E-08	< 4.18E-08	< 8.24E-09	< 3.49E-08	< 8.67E-09	< 2.86E-08	< 9.85E-09
4-Nitrophenol	100-02-7	< 7.82E-09	< 1.08E-08	< 3.56E-08	< 4.98E-09	< 2.97E-08	< 5.24E-09	< 2.44E-08	< 6.99E-09
Dibenzofuran	132-64-9	1.78E-09	< 1.17E-09	2.52E-09	1.78E-10	1.90E-09	1.73E-10	2.07E-09	< 5.08E-10
Diethylphthalate	84-66-2	1.49E-09	1.32E-09	2.67E-09	8.91E-10	5.34E-08	1.34E-09	1.92E-08	1.18E-09
4-Chlorophenyl-phenylether	70005-72-3	< 2.27E-09	< 3.13E-09	< 1.04E-08	< 1.34E-09	< 8.65E-09	< 1.41E-09	< 7.10E-09	< 1.96E-09
Fluorene	86-73-7	2.45E-09	< 1.62E-09	< 5.37E-09	< 7.54E-10	< 4.48E-09	< 7.92E-10	< 4.10E-09	< 1.05E-09
4-Nitroaniline	100-01-6	< 3.10E-09	< 4.25E-09	< 1.41E-08	< 2.43E-09	< 1.17E-08	< 2.55E-09	< 9.64E-09	< 3.08E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 4.19E-09	< 6.99E-09	< 2.54E-08	< 5.33E-09	< 2.18E-08	< 5.56E-09	< 1.72E-08	< 5.96E-09
4-Bromophenyl-phenylether	101-55-3	< 3.23E-09	< 5.39E-09	< 1.96E-08	< 2.58E-09	< 1.68E-08	< 2.69E-09	< 1.32E-08	< 3.55E-09
Hexachlorobenzene	118-74-1	< 2.35E-09	< 3.93E-09	< 1.43E-08	< 1.92E-09	< 1.23E-08	< 2.00E-09	< 9.65E-09	< 2.62E-09
Pentachlorophenol	87-86-5	< 3.47E-09	< 5.78E-09	< 2.11E-08	< 3.59E-09	1.20E-08	< 3.75E-09	< 1.22E-08	< 4.37E-09
Phenanthrene	85-01-8	1.41E-09	< 9.42E-10	4.51E-09	< 5.62E-10	2.65E-09	< 5.76E-10	2.86E-09	< 6.94E-10
Anthracene	120-12-7	< 5.85E-10	< 9.60E-10	< 3.51E-09	< 5.62E-10	< 3.02E-09	< 5.91E-10	< 2.37E-09	< 7.04E-10
Di-n-butylphthalate	84-74-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-08	0.00E+00	2.43E-08
Fluoranthene	206-44-0	1.05E-09	< 7.82E-10	1.06E-08	< 5.07E-10	4.40E-09	< 5.33E-10	5.34E-09	< 6.08E-10
Pyrene	129-00-0	5.57E-09	4.27E-10	6.04E-08	2.19E-10	2.64E-08	3.03E-10	3.08E-08	3.16E-10
Butylbenzylphthalate	85-68-7	1.10E-09	< 8.89E-10	< 3.16E-09	4.11E-10	< 2.80E-09	5.33E-10	< 2.35E-09	< 6.11E-10
3,3'-Dichlorobenzidine	91-94-1	< 1.26E-09	< 2.01E-09	< 7.12E-09	< 1.00E-09	< 6.31E-09	< 1.08E-09	< 4.90E-09	< 1.36E-09
bis(2-Ethylhexyl)phthalate	117-81-7	1.83E-07	4.14E-07	6.88E-08	2.27E-07	4.35E-08	9.05E-08	9.84E-08	2.44E-07

1 = TO14 Compounds 2 = Tentatively Identified Compounds

TRC

TABLE B.3-2
MIXER CONTROL DEVICE SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGES Inlet w/ non-detects	AVERAGES Outlet w/ non-detects
Speciated Semi (lb/lb rubber)									
Benzo(a)anthracene	56-55-3	< 3.99E-10	< 6.40E-10	3.43E-10	< 3.43E-10	< 1.99E-09	< 3.75E-10	< 9.11E-10	< 4.52E-10
Chrysene	218-01-9	< 4.26E-10	< 6.76E-10	< 2.43E-09	< 3.84E-10	2.35E-09	< 4.18E-10	< 1.74E-09	< 4.92E-10
Di-n-octylphthalate	117-84-0	< 4.26E-10	4.48E-09	< 1.77E-09	1.86E-09	< 1.33E-09	7.06E-10	< 1.18E-09	2.35E-09
Benzo(b)fluoranthene	205-99-2	< 6.25E-10	< 6.58E-10	< 2.58E-09	< 3.15E-10	< 1.96E-09	< 3.46E-10	< 1.72E-09	< 4.40E-10
Benzo(k)fluoranthene	207-08-9	< 6.78E-10	< 7.11E-10	< 2.85E-09	< 3.29E-10	< 2.16E-09	< 3.46E-10	< 1.90E-09	< 4.62E-10
Benzo(a)pyrene	50-32-8	< 6.78E-10	< 7.11E-10	< 2.84E-09	< 3.43E-10	< 2.15E-09	< 3.60E-10	< 1.89E-09	< 4.71E-10
Indeno(1,2,3-cd)pyrene	193-39-5	< 5.32E-10	< 5.51E-10	< 2.20E-09	< 2.74E-10	< 1.67E-09	< 3.03E-10	< 1.47E-09	< 3.76E-10
Dibenz(a,h)anthracene	53-90-3	< 6.78E-10	< 7.29E-10	< 2.86E-09	< 3.56E-10	< 2.16E-09	< 3.89E-10	< 1.90E-09	< 4.92E-10
Benzo(g,h,i)perylene	191-24-2	< 5.72E-10	< 6.05E-10	2.09E-09	< 3.02E-10	< 1.81E-09	< 3.31E-10	< 1.49E-09	< 4.13E-10
n-Nitrosodimethylamine	62-75-9	< 4.55E-09	< 5.99E-09	< 1.96E-08	< 3.76E-09	< 1.55E-08	< 4.19E-09	< 1.32E-08	< 4.65E-09
Cumene	98-82-8	1.53E-09	1.71E-09	< 4.71E-09	2.07E-09	< 3.74E-09	1.92E-09	< 3.33E-09	1.90E-09
Aniline	62-53-3	< 1.74E-09	< 2.29E-09	2.31E-08	5.62E-10	4.61E-08	< 1.37E-09	< 2.37E-08	< 1.41E-09
Benzyl Chloride	100-44-7	< 1.58E-09	< 2.08E-09	< 6.80E-09	< 1.06E-09	< 5.39E-09	< 1.18E-09	< 4.59E-09	< 1.44E-09
Acetophenone	98-86-2	9.01E-08	2.42E-08	3.43E-08	2.28E-08	3.95E-08	1.75E-08	5.47E-08	2.15E-08
n-Nitrosomorpholine	59-89-2	< 4.00E-09	< 5.26E-09	< 1.72E-08	< 2.84E-09	< 1.36E-08	< 3.17E-09	< 1.16E-08	< 3.76E-09
o-Toluidine	95-53-4	< 1.90E-09	< 2.49E-09	< 8.16E-09	< 1.23E-09	< 6.46E-09	< 1.38E-09	< 5.51E-09	< 1.70E-09
N,N-Dimethylaniline	121-69-7	< 1.69E-09	< 2.24E-09	< 6.93E-09	< 1.10E-09	< 5.74E-09	< 1.21E-09	< 4.79E-09	< 1.52E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 5.52E-09	< 7.27E-09	< 2.38E-08	< 3.47E-09	< 1.88E-08	< 3.86E-09	< 1.60E-08	< 4.87E-09
o-Anisidine	90-04-0	< 3.17E-09	< 4.21E-09	< 1.31E-08	< 1.92E-09	< 1.08E-08	< 2.12E-09	< 9.01E-09	< 2.75E-09
1,4-Phenylenediamine	106-50-3	< 3.38E-09	< 4.50E-09	< 1.39E-08	< 1.91E-09	< 1.15E-08	< 2.10E-09	< 9.61E-09	< 2.84E-09
N,N-Diethylaniline	91-66-7	< 1.54E-09	< 2.03E-09	< 6.65E-09	< 9.46E-10	< 5.27E-09	< 1.05E-09	< 4.49E-09	< 1.34E-09
a,a,a-Trichlorotoluene	98-07-7	< 2.39E-09	< 3.20E-09	< 9.87E-09	< 1.32E-09	< 8.18E-09	< 1.46E-09	< 6.81E-09	< 1.99E-09
Hydroquinone	123-31-9	< 2.57E-09	< 3.41E-09	< 1.06E-08	< 1.65E-09	< 8.76E-09	< 1.82E-09	< 7.30E-09	< 2.29E-09
2-Chloroacetophenone	1341-24-8	< 1.21E-09	< 1.62E-09	< 4.99E-09	< 7.68E-10	< 4.13E-09	< 8.50E-10	< 3.44E-09	< 1.08E-09
Biphenyl	92-52-4	4.10E-09	9.42E-10	4.23E-09	1.48E-09	3.84E-09	< 7.92E-10	4.06E-09	< 1.07E-09
Trifluralin	1582-09-8	< 5.35E-09	< 7.34E-09	< 2.43E-08	< 2.87E-09	< 2.03E-08	< 3.03E-09	< 1.66E-08	< 4.41E-09
4-Aminobiphenyl	92-67-1	< 7.58E-10	< 1.26E-09	< 4.59E-09	< 8.09E-10	< 3.94E-09	< 8.50E-10	< 3.10E-09	< 9.74E-10
Pentachloronitrobenzene	82-68-8	< 7.10E-09	< 1.18E-08	< 4.31E-08	< 6.39E-09	< 3.70E-08	< 6.66E-09	< 2.91E-08	< 8.30E-09
4-Nitrobiphenyl	92-93-3	< 1.46E-09	< 2.45E-09	< 8.91E-09	< 1.66E-09	< 7.66E-09	< 1.73E-09	< 6.01E-09	< 1.95E-09
Benzidine	92-87-5	< 7.32E-10	< 1.16E-09	< 4.11E-09	< 5.76E-10	< 3.64E-09	< 6.20E-10	< 2.83E-09	< 7.84E-10
4,4'-Methylenedianiline	101-77-9	< 1.44E-09	< 2.28E-09	< 8.07E-09	< 1.15E-09	< 7.15E-09	< 1.24E-09	< 5.55E-09	< 1.56E-09
Dimethylaminoazobenzene	60-11-7	< 8.51E-10	< 1.35E-09	< 4.79E-09	< 8.50E-10	< 4.25E-09	< 9.22E-10	< 3.30E-09	< 1.04E-09
3,3'-Dimethylbenzidine	119-93-7	< 6.92E-10	< 1.10E-09	< 3.91E-09	< 5.48E-10	< 3.46E-09	< 5.91E-10	< 2.69E-09	< 7.47E-10
3,3'-Dimethoxybenzidine	119-90-4	< 2.02E-09	< 3.20E-09	< 1.14E-08	< 1.45E-09	< 1.01E-08	< 1.57E-09	< 7.85E-09	< 2.07E-09
Methylene bis-chloroaniline	101-14-4	< 2.49E-09	< 3.93E-09	< 1.40E-08	< 1.99E-09	< 1.24E-08	< 2.13E-09	< 9.63E-09	< 2.68E-09
3-Furaldehyde	498-60-2	< 4.35E-09	< 5.73E-09	< 1.87E-08	< 3.40E-09	< 1.48E-08	< 3.79E-09	< 1.26E-08	< 4.30E-09
2-Furaldehyde	98-01-1	2.17E-08	1.39E-08	3.32E-08	4.33E-08	2.71E-08	9.61E-09	2.73E-08	2.23E-08
Cyclohexylamine	108-91-8	< 2.85E-09	< 3.73E-09	< 1.22E-08	< 2.28E-09	< 9.69E-09	< 2.54E-09	< 8.26E-09	< 2.85E-09
N-Nitrosodiethylamine	55-18-5	< 4.70E-09	< 6.17E-09	< 2.02E-08	< 3.63E-09	< 1.60E-08	< 4.05E-09	< 1.36E-08	< 4.62E-09
Cyclohexanone	108-94-1	< 2.29E-09	< 3.01E-09	< 9.83E-09	< 2.08E-09	7.89E-09	< 2.32E-09	< 6.67E-09	< 2.47E-09
1,3-Cyclooctadiene	1700-10-3	< 2.89E-09	< 3.79E-09	< 1.24E-08	< 2.21E-09	< 9.83E-09	< 2.46E-09	< 8.37E-09	< 2.82E-09
1,5-Cyclooctadiene	111-78-4	< 6.29E-09	6.28E-09	< 2.71E-08	5.68E-09	< 2.15E-08	9.60E-09	< 1.83E-08	7.18E-09
Camphene	79-92-5	< 3.19E-09	< 4.20E-09	< 1.37E-08	< 2.21E-09	< 1.09E-08	< 2.46E-09	< 9.26E-09	< 2.96E-09
Benzaldehyde	100-52-7	2.65E-08	2.17E-08	2.17E-08	1.91E-08	2.32E-08	1.48E-08	2.38E-08	1.85E-08
Benzonitrile	100-47-0	2.69E-09	2.08E-09	1.86E-09	2.06E-09	2.09E-09	1.43E-09	2.21E-09	1.85E-09
Isooctanol	26952-21-6	< 2.60E-08	< 3.43E-08	< 1.12E-07	< 2.29E-08	< 8.88E-08	< 2.55E-08	< 7.56E-08	< 2.75E-08
1,2,4-Trimethylbenzene	95-63-6	1.46E-08	1.10E-08	1.53E-08	2.81E-08	2.75E-08	1.98E-08	1.91E-08	1.96E-08
3-Methylstyrene	100-80-1	< 1.88E-09	< 2.45E-09	< 8.04E-09	< 1.34E-09	< 6.38E-09	< 1.50E-09	< 5.43E-09	< 1.77E-09
4-Methylstyrene	622-97-9	< 1.93E-09	< 2.54E-09	< 8.33E-09	< 1.40E-09	< 6.60E-09	< 1.57E-09	< 5.62E-09	< 1.84E-09
4-Chlorostyrene	1073-67-2	< 2.29E-09	< 3.02E-09	< 9.87E-09	< 1.60E-09	< 7.83E-09	< 1.79E-09	< 6.66E-09	< 2.14E-09
1-Dodecene	112-41-4	< 9.98E-09	< 1.33E-08	< 4.11E-08	< 7.46E-09	< 3.40E-08	< 8.23E-09	< 2.84E-08	< 9.66E-09
Phthalimide	85-41-6	3.75E-08	< 5.07E-09	2.69E-08	< 3.06E-09	4.17E-08	< 3.21E-09	3.54E-08	< 3.78E-09
Diphenylamine	122-39-4	5.88E-09	8.54E-10	6.72E-09	8.77E-10	1.27E-08	8.79E-10	8.42E-09	8.70E-10
Total Detected		1.63E-06	1.68E-06	1.40E-06	1.31E-06	1.90E-06	8.24E-07	1.64E-06	1.27E-06
Total with non-detects		< 1.87E-06	< 2.02E-06	< 2.53E-06	< 1.49E-06	< 2.79E-06	< 1.02E-06	< 2.40E-06	< 1.51E-06

1 = TO14 Compounds 2 = Tentatively Identified Compounds

TRC

TABLE B.3-3
MIXER CONTROL DEVICE SPECIATED VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGES Inlet w/ non-detects	AVERAGES Outlet w/ non-detects
Speciated Vol (ug/m³)											
		1-Heptene	592-76-7	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	18.38	< 1.17	< 6.90
		1-Hexene	592-41-6	14.59	26.26	16.92	14.00	23.34	< 1.17	18.28	< 13.81
		1-Octene	111-60-0	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17
		1-Pentene	109-67-1	31.51	39.09	36.18	26.84	44.34	16.92	37.34	27.62
1		1,1-Dichloroethane	00075-34-3	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		1,1-Dichloroethene	00075-35-4	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		1,1,1-Trichloroethane	00071-55-6	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		1,1,2-Trichloroethane	00079-00-5	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00
1		1,2-Dibromoethane	00106-93-4	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		1,2-Dichlorobenzene	00095-50-1	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		1,2-Dichloroethane	00107-06-2	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		1,2-Dichloropropane	00078-87-5	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		1,2,4-Trimethylbenzene	95-63-6	32.78	< 5.56	< 5.56	< 5.56	< 5.56	< 5.56	< 14.63	< 5.56
		1,3-Butadiene	106-99-0	90.00	112.50	84.38	106.88	129.38	143.44	101.25	120.94
1		1,3-Dichlorobenzene	00541-73-1	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		1,3,5-Trimethylbenzene	108-67-8	< 5.56	35.55	< 5.56	< 5.56	< 5.56	< 5.56	< 5.56	< 15.55
1		1,4-Dichlorobenzene	00106-46-7	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 5.58	< 5.58	< 5.58	< 5.58	< 5.58	< 5.58	< 5.58	< 5.58
1		1,4-Dioxane	00123-91-1	170.00	80.00	< 80.00	< 80.00	< 80.00	< 80.00	< 110.00	< 80.00
1		2-Butanone	00078-93-3	100.00	110.00	330.00	200.00	240.00	350.00	223.33	220.00
1	2	2-Butene				100.00	80.00	100.00		66.67	26.67
1		2-Hexanone	00591-78-6	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		2-Methyl-1-butene	563-46-2	134.20	30.34	41.43	28.01	39.68	< 1.17	71.77	< 19.84
		2-Methyl-2-butene	513-35-9	< 1.17	< 1.17	36.18	12.84	35.59	17.80	< 24.31	< 10.60
		2-Methyl-2-pentene	625-27-4	< 1.17	< 1.17	28.59	19.25	36.76	21.59	< 22.17	< 14.00
1	2	2-Methylbutanal		1000.00	1000.00	700.00	500.00	700.00	1000.00	800.00	833.33
		2-Methylheptane	592-27-8	< 1.19	< 1.19	36.83	11.29	48.70	52.57	< 28.91	< 21.68
		2-Methylhexane	591-76-4	< 1.19	< 1.19	40.49	28.58	36.32	48.83	< 26.00	< 26.20
		2-Methylpentane	107-83-5	32.26	149.36	209.11	149.36	238.98	57.65	160.12	118.79
		2,2-Dimethylbutane	75-83-2	3226.25	3943.19	< 1.19	< 1.19	< 1.19	< 1.19	< 1076.21	< 1315.19
		2,2-Dimethylpropane	463-82-1	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
		2,3-Dimethylpentane	565-59-3	95.27	113.14	208.41	9.53	10.72	15.78	104.80	46.15
		2,3,4-Trimethylpentane	565-75-3	166.31	148.49	< 1.19	< 1.19	< 1.19	< 1.19	< 56.23	< 50.29
		2,4-Dimethylhexane	589-43-5	< 1.19	< 1.19	53.46	38.01	83.15	95.03	< 45.93	< 44.74
1	2	3-Methylbutanal		2000.00	2000.00	2000.00	1000.00	2000.00	3000.00	2000.00	2000.00
		3-Methylhexane	589-34-4	< 1.19	< 1.19	101.23	65.50	101.23	95.27	< 67.88	< 53.99
		3-Methylpentane	96-14-0	< 1.19	15.53	71.69	26.89	36.44	32.56	< 36.44	24.99
		4-Methyl-1-pentene	691-37-2	21.59	12.84	< 1.17	< 1.17	99.19	< 1.17	< 40.65	< 5.06
1		4-Methyl-2-pentanone	00108-10-1	30.00	43.00	28.00	19.00	350.00	50.00	136.00	37.33
1	2	4-Vinyl Cyclohexene						100.00	100.00	33.33	33.33
1	2	Acetaldehyde		700.00	900.00	600.00	300.00	600.00	1000.00	633.33	733.33
1		Acetone	00067-64-1	550.00	310.00	1000.00	800.00	1100.00	790.00	883.33	633.33
1		Acetonitrile	01722-09-4	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	21.00	< 40.00	< 33.67
1	2	Acetophenone		100.00						33.33	0.00
		Acetylene	74-86-2	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08
1		Acrolein	00107-02-8	< 40.00	19.00	< 40.00	< 40.00	< 40.00	13.00	< 40.00	< 24.00
1		Acrylonitrile	00107-13-1	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00
1		Allyl Chloride	00107-05-1	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00
		a-Pinene	7785-70-8	< 1.13	< 1.13	< 1.13	< 1.13	45.90	< 1.13	< 16.06	< 1.13
		Benzene	71-43-2	< 1.08	< 1.08	42.78	31.41	59.57	56.86	< 34.48	< 29.79
1		Benzyl Chloride	00100-44-7	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00
		b-Pinene	18172-67-3	38.54	62.34	< 5.67	< 5.67	< 5.67	< 5.67	< 16.62	< 24.56
1		Bromodichloromethane	00075-27-4	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		Bromoform	00075-25-2	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		Bromomethane	00074-83-9	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1	2	C11H24 Alkane						200.00		66.67	0.00
1	2	C5H10 Alkene		70.00	200.00	200.00	100.00	200.00	200.00	156.67	166.67
1	2	C8H18 Alkane		200.00						66.67	0.00
1		Carbon Disulfide	00075-15-0	60.00	17.00	< 20.00	17.00	47.00	130.00	< 42.33	54.67
1		Carbon Tetrachloride	00056-23-5	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		Chlorobenzene	00108-90-7	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		Chlorodibromomethane	00124-48-1	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		Chloroethane	00075-00-3	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		Chloroform	00067-66-3	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		Chloromethane	00074-87-3	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00

1 = TO14 Compounds 2 = Tentatively Identified Compounds

TRC

TABLE B.3-3
MIXER CONTROL DEVICE SPECIATED VOLATILES SUMMARY

				Run 1		Run 2		Run 3		AVERAGES	
		Compounds	CAS Numbers	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet w/ non-detects	Outlet w/ non-detects
Speciated Vol (µg/m³)											
1		cis-1,2-Dichloroethene	00156-59-2	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		cis-1,3-Dichloropropene	10061-01-5	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		cis-2-Butene	590-18-1	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17
		cis-2-Hexene	7688-21-3	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17
		cis-2-Pentene	627-20-3	< 1.17	33.84	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 12.06
		Cumene	98-82-8	< 1.11	15.00	< 1.11	< 1.11	< 1.11	< 1.11	< 1.11	< 5.74
		Cyclohexane	110-82-7	87.52	15.75	< 1.17	21.59	< 1.17	14.30	< 29.95	17.21
		Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	149.55	58.52	< 1.30	< 1.30	< 1.30	< 1.30	< 50.72	< 20.37
		Cyclopentene	142-29-0	< 1.13	< 1.13	408.03	215.35	323.02	532.70	< 244.06	< 249.73
1		Dichlorodifluoromethane	00075-71-8	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		d-Limonene	5989-27-5	< 5.67	28.34	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67	< 13.22
1		Epichlorohydrin	00106-89-8	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00
		Ethane	74-84-0	24.39	17.51	21.26	11.88	34.40	32.21	26.68	20.53
1	2	Ethanol			60.00				60.00	0.00	40.00
1	2	Ethyl Butyl Ketone						70.00		23.33	0.00
		Ethylacetylene	107-00-6	< 1.13	< 1.13	< 1.13	< 1.13	< 1.13	< 1.13	< 1.13	< 1.13
		Ethylbenzene	100-41-4	40.30	39.19	12.70	< 1.10	< 1.10	< 1.10	< 18.03	< 13.80
		Ethylene	74-85-1	12.84	11.09	18.67	12.25	21.01	18.96	17.50	14.10
1		Hexachlorobutadiene	00087-68-3	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00
1	2	Hexanal					60.00			0.00	20.00
1	2	Isobutanal		1000.00	2000.00	1000.00	600.00	1000.00	2000.00	1000.00	1533.33
		Isobutane	75-28-5	664.88	846.22	< 1.21	< 1.21	< 1.21	< 1.21	< 222.43	< 282.88
		Isobutylene + 1-Butene	115-11-7/106-98-9	30.92	25.09	81.69	87.52	93.36	32.97	68.66	48.53
		Isooctane	540-84-1	89.09	112.85	34.45	17.82	24.35	7.42	49.30	46.03
		Isopentane	78-78-4	456.19	456.19	1500.62	1200.50	1740.72	1140.47	1232.51	932.39
		Isoprene	78-79-5	< 1.13	< 1.13	13.03	7.37	12.47	12.18	< 8.88	< 6.89
1	2	Methacrolein		100.00	200.00	200.00	100.00	200.00	300.00	166.67	200.00
1	2	Methyl Isoamyl Ketone						100.00		33.33	0.00
		Methylacetylene	74-99-7	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08
		Methylcyclohexane	108-87-2	51.35	55.43	38.51	22.17	58.35	57.76	49.40	45.12
		Methylcyclopentane	96-37-7	3559.21	4726.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1187.18	< 1576.17
1		Methylene Chloride	00079-09-2	440.00	25.00	24.00	14.00	34.00	14.00	166.00	17.67
		m-Ethyltoluene	620-14-4	25.00	< 1.11	< 1.11	< 1.11	< 1.11	< 1.11	< 9.07	< 1.11
		m-Xylene + p-Xylene	108-38-3/106-42-3	< 1.10	< 1.10	60.72	22.08	45.27	27.05	< 35.70	< 16.75
		n-Butane	106-97-8	84.62	145.07	90.67	51.38	114.84	139.02	96.71	111.82
		n-Decane	124-18-5	17.16	< 5.92	< 5.92	< 5.92	< 5.92	< 5.92	< 9.67	< 5.92
		n-Heptane	142-82-5	< 1.19	< 1.19	107.18	59.55	95.27	101.23	< 67.88	< 53.99
		n-Hexane	110-54-3	20.91	23.30	71.69	40.03	65.72	54.07	52.78	39.13
		n-Nonane	111-84-2	< 1.19	< 1.19	56.91	30.23	59.28	9.78	< 39.12	< 13.73
		n-Octane	111-65-9	< 1.19	< 1.19	35.64	18.41	33.26	19.60	< 23.36	< 13.07
		n-Pentane	109-66-0	18.01	18.61	31.21	22.81	35.41	31.21	28.21	24.21
		n-Propylbenzene	103-65-1	< 1.11	< 1.11	< 1.11	< 1.11	< 1.11	< 1.11	< 1.11	< 1.11
1	2	n-Undecane				70.00	50.00	100.00		56.67	16.67
		o-Ethyltoluene	611-14-3	< 5.56	< 5.56	28.89	26.11	83.33	14.17	< 39.26	< 15.28
		o-Xylene	95-47-6	< 1.10	48.03	19.87	20.98	22.63	< 1.10	< 14.54	< 23.37
		p-Cymene	99-87-6	22.33	21.77	< 5.58	< 5.58	< 5.58	< 5.58	< 11.17	< 10.98
		p-Ethyltoluene	622-96-8	25.00	20.55	19.44	< 1.11	< 1.11	< 1.11	< 15.18	< 7.59
		Propane	74-98-6	85.60	91.71	140.63	44.02	103.94	177.31	110.06	104.35
		Propylene	115-07-1	7.59	5.60	< 1.17	< 1.17	< 1.17	< 1.17	< 3.31	< 2.65
1		Propylene Oxide	00075-56-9	1800.00	1100.00	670.00	400.00	550.00	1300.00	1006.67	933.33
		Styrene	100-42-5	10.83	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	< 4.33	< 1.08
1		t-Butyl Methyl Ether	01634-04-4	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00	< 40.00
1		Tetrachloroethene	00127-18-4	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		Toluene	108-88-3	1.86	8.21	120.46	60.23	273.77	336.74	132.03	135.06
1		trans-1,2-Dichloroethene	00156-60-5	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		trans-1,2-Dichloropropene	10061-01-5	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		trans-2-Butene	624-64-6	< 1.17	14.00	< 1.17	24.51	< 1.17	14.59	< 1.17	17.70
		trans-2-Hexene	4050-45-7	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17
		trans-2-Pentene	646-04-8	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17	< 1.17
1		Trichloroethene	00079-01-6	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1		Trichlorofluoromethane	00075-69-4	18.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 19.33	< 20.00
1		Trichlortrifluoroethane	00076-13-1	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1	2	Unknown		300.00						100.00	0.00
1		Vinyl Acetate	00108-05-4	46.00	180.00	200.00	130.00	200.00	170.00	148.67	160.00
1		Vinyl Chloride	00075-01-4	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
		Total Detected		18052.45	19770.68	11041.94	6955.17	12200.71	13944.43	13765.03	13556.76
		Total with non-detects		< 19069.40	< 20764.34	< 12190.41	< 8083.52	< 13329.09	< 14995.05	< 14862.97	< 14614.30

1 = TO14 Compounds 2 = Tentatively Identified Compounds

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TABLE B.3-3
MIXER CONTROL DEVICE SPECIATED VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGES Inlet w/ non-detects	AVERAGES Outlet w/ non-detects
Speciated Vol (lb/hr)											
		1-Heptene	592-76-7	< 3.02E-05	< 3.38E-05	< 3.00E-05	< 3.43E-05	< 2.96E-05	5.37E-04	< 2.99E-05	< 2.02E-04
		1-Hexene	592-41-6	3.78E-04	7.61E-04	4.35E-04	4.11E-04	5.91E-04	< 3.41E-05	4.68E-04	< 4.02E-04
		1-Octene	111-60-0	< 3.02E-05	< 3.38E-05	< 3.00E-05	< 3.43E-05	< 2.96E-05	< 3.41E-05	< 2.99E-05	< 3.41E-05
		1-Pentene	109-67-1	8.16E-04	1.13E-03	9.30E-04	7.89E-04	1.12E-03	4.95E-04	9.56E-04	8.05E-04
1		1,1-Dichloroethane	00075-34-3	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		1,1-Dichloroethene	00075-35-4	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		1,1,1-Trichloroethane	00071-55-6	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		1,1,2-Trichloroethane	00079-00-5	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.04E-03	< 1.16E-03	< 1.03E-03	< 1.18E-03	< 1.01E-03	< 1.17E-03	< 1.03E-03	< 1.17E-03
1		1,2-Dibromoethane	00106-93-4	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		1,2-Dichlorobenzene	00095-50-1	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		1,2-Dichloroethane	00107-06-2	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		1,2-Dichloropropane	00078-87-5	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		1,2,4-Trimethylbenzene	95-63-6	8.49E-04	< 1.61E-04	< 1.43E-04	< 1.63E-04	< 1.41E-04	< 1.62E-04	< 3.78E-04	< 1.62E-04
		1,3-Butadiene	106-99-0	2.33E-03	3.26E-03	2.17E-03	3.14E-03	3.28E-03	4.19E-03	2.59E-03	3.53E-03
1		1,3-Dichlorobenzene	00541-73-1	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		1,3,5-Trimethylbenzene	108-67-8	< 1.44E-04	1.03E-03	< 1.43E-04	< 1.63E-04	< 1.41E-04	< 1.62E-04	< 1.42E-04	< 4.52E-04
1		1,4-Dichlorobenzene	00106-46-7	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 1.45E-04	< 1.62E-04	< 1.44E-04	< 1.64E-04	< 1.41E-04	< 1.63E-04	< 1.43E-04	< 1.63E-04
1		1,4-Dioxane	00123-91-1	4.40E-03	2.32E-03	< 2.06E-03	< 2.35E-03	< 2.03E-03	< 2.34E-03	< 2.83E-03	< 2.34E-03
1		2-Butanone	00078-93-3	2.59E-03	3.19E-03	8.49E-03	5.88E-03	6.08E-03	1.02E-02	5.72E-03	6.43E-03
1	2	2-Butene		0.00E+00	0.00E+00	2.57E-03	2.35E-03	2.53E-03	0.00E+00	1.70E-03	7.83E-04
1		2-Hexanone	00591-78-6	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		2-Methyl-1-butene	563-46-2	3.48E-03	8.79E-04	1.07E-03	8.23E-04	1.00E-03	< 3.41E-05	1.85E-03	< 5.79E-04
		2-Methyl-2-butene	513-35-9	< 3.02E-05	< 3.38E-05	9.30E-04	3.77E-04	9.01E-04	5.20E-04	< 6.21E-04	< 3.10E-04
		2-Methyl-2-pentene	625-27-4	< 3.02E-05	< 3.38E-05	7.35E-04	5.66E-04	9.31E-04	6.31E-04	< 5.65E-04	< 4.10E-04
1	2	2-Methylbutanal		2.59E-02	2.90E-02	1.80E-02	1.47E-02	1.77E-02	2.92E-02	2.05E-02	2.43E-02
		2-Methylheptane	592-27-8	< 3.08E-05	< 3.44E-05	9.47E-04	3.32E-04	1.23E-03	1.54E-03	< 7.37E-04	< 6.34E-04
		2-Methylhexane	591-76-4	< 3.08E-05	< 3.45E-05	1.04E-03	8.40E-04	9.20E-04	1.43E-03	< 6.64E-04	< 7.67E-04
		2-Methylpentane	107-83-5	8.36E-04	4.33E-03	5.38E-03	4.39E-03	6.05E-03	1.69E-03	4.09E-03	3.47E-03
		2,2-Dimethylbutane	75-83-2	8.36E-02	1.14E-01	< 3.07E-05	< 3.51E-05	< 3.03E-05	< 3.49E-05	< 2.79E-02	< 3.81E-02
		2,2-Dimethylpropane	463-82-1	< 3.11E-05	< 3.48E-05	< 3.09E-05	< 3.53E-05	< 3.04E-05	< 3.51E-05	< 3.08E-05	< 3.51E-05
		2,3-Dimethylpentane	565-59-3	2.47E-03	3.28E-03	5.36E-03	2.80E-04	2.71E-04	4.61E-04	2.70E-03	1.34E-03
		2,3,4-Trimethylpentane	565-75-3	4.31E-03	4.30E-03	< 3.05E-05	< 3.49E-05	< 3.01E-05	< 3.47E-05	< 1.46E-03	< 1.46E-03
		2,4-Dimethylhexane	589-43-5	< 3.08E-05	< 3.44E-05	1.37E-03	1.12E-03	2.11E-03	2.78E-03	< 1.17E-03	< 1.31E-03
1	2	3-Methylbutanal		5.18E-02	5.80E-02	5.14E-02	2.94E-02	5.06E-02	8.77E-02	5.13E-02	5.84E-02
		3-Methylhexane	589-34-4	< 3.08E-05	< 3.45E-05	2.60E-03	1.92E-03	2.56E-03	2.79E-03	< 1.73E-03	< 1.58E-03
		3-Methylpentane	96-14-0	< 3.10E-05	4.50E-04	1.84E-03	7.90E-04	9.23E-04	9.52E-04	< 9.32E-04	7.31E-04
		4-Methyl-1-pentene	691-37-2	5.59E-04	3.72E-04	< 3.00E-05	< 3.43E-05	2.51E-03	< 3.41E-05	< 1.03E-03	< 1.47E-04
1		4-Methyl-2-pentanone	00108-10-1	7.77E-04	1.25E-03	7.20E-04	5.58E-04	8.86E-03	1.46E-03	3.45E-03	1.09E-03
1	2	4-Vinyl Cyclohexene		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	2.92E-03	8.44E-04	9.75E-04
1	2	Acetaldehyde		1.81E-02	2.61E-02	1.54E-02	8.81E-03	1.52E-02	2.92E-02	1.63E-02	2.14E-02
1		Acetone	00067-64-1	1.42E-02	8.98E-03	2.57E-02	2.35E-02	2.79E-02	2.31E-02	2.26E-02	1.85E-02
1		Acetonitrile	01722-09-4	< 1.04E-03	< 1.16E-03	< 1.03E-03	< 1.18E-03	< 1.01E-03	6.14E-04	< 1.03E-03	< 9.83E-04
1	2	Acetophenone		2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00
		Acetylene	74-86-2	< 2.81E-05	< 3.14E-05	< 2.78E-05	< 3.18E-05	< 2.74E-05	< 3.17E-05	< 2.78E-05	< 3.16E-05
1		Acrolein	00107-02-8	< 1.04E-03	5.51E-04	< 1.03E-03	< 1.18E-03	< 1.01E-03	3.80E-04	< 1.03E-03	< 7.02E-04
1		Acrylonitrile	00107-13-1	< 1.04E-03	< 1.16E-03	< 1.03E-03	< 1.18E-03	< 1.01E-03	< 1.17E-03	< 1.03E-03	< 1.17E-03
1		Allyl Chloride	00107-05-1	< 1.04E-03	< 1.16E-03	< 1.03E-03	< 1.18E-03	< 1.01E-03	< 1.17E-03	< 1.03E-03	< 1.17E-03
		a-Pinene	7785-70-8	< 2.94E-05	< 3.28E-05	< 2.91E-05	< 3.33E-05	1.16E-03	< 3.31E-05	< 4.07E-04	< 3.31E-05
		Benzene	71-43-2	< 2.81E-05	< 3.14E-05	1.10E-03	9.23E-04	1.51E-03	1.66E-03	< 8.79E-04	< 8.72E-04
1		Benzyl Chloride	00100-44-7	< 1.04E-03	< 1.16E-03	< 1.03E-03	< 1.18E-03	< 1.01E-03	< 1.17E-03	< 1.03E-03	< 1.17E-03
		b-Pinene	18172-67-3	9.98E-04	1.81E-03	< 1.46E-04	< 1.66E-04	< 1.44E-04	< 1.66E-04	< 4.29E-04	< 7.13E-04
1		Bromodichloromethane	00075-27-4	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		Bromoform	00075-25-2	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		Bromomethane	00074-83-9	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1	2	C11H24 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03	0.00E+00	1.69E-03	0.00E+00
1	2	C5H10 Alkene		1.81E-03	5.80E-03	5.14E-03	2.94E-03	5.06E-03	5.85E-03	4.01E-03	4.86E-03
1	2	C8H18 Alkane		5.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00
1		Carbon Disulfide	00075-15-0	1.55E-03	4.93E-04	< 5.14E-04	4.99E-04	1.19E-03	3.80E-03	< 1.09E-03	1.60E-03
1		Carbon Tetrachloride	00056-23-5	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		Chlorobenzene	00108-90-7	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		Chlorodibromomethane	00124-48-1	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		Chloroethane	00075-00-3	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		Chloroform	00067-66-3	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		Chloromethane	00074-87-3	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04

1 = TO14 Compounds 2 = Tentatively Identified Compounds

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TABLE B.3-3
MIXER CONTROL DEVICE SPECIATED VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGES Inlet w/ non-detects	AVERAGES Outlet w/ non-detects
Speciated Vol (lb/hr)											
1		cis-1,2-Dichloroethene	00156-59-2	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		cis-1,3-Dichloropropene	10061-01-5	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		cis-2-Butene	590-18-1	< 3.02E-05	< 3.38E-05	< 3.00E-05	< 3.43E-05	< 2.96E-05	< 3.41E-05	< 2.99E-05	< 3.41E-05
		cis-2-Hexene	7688-21-3	< 3.02E-05	< 3.38E-05	< 3.00E-05	< 3.43E-05	< 2.96E-05	< 3.41E-05	< 2.99E-05	< 3.41E-05
		cis-2-Pentene	627-20-3	< 3.02E-05	9.81E-04	< 3.00E-05	< 3.43E-05	< 2.96E-05	< 3.41E-05	< 2.99E-05	< 3.50E-04
		Cumene	98-82-8	< 2.88E-05	4.35E-04	< 2.86E-05	< 3.26E-05	< 2.81E-05	< 3.25E-05	< 2.85E-05	< 1.67E-04
		Cyclohexane	110-82-7	2.27E-03	4.57E-04	< 3.00E-05	6.34E-04	< 2.96E-05	4.18E-04	< 7.76E-04	5.03E-04
		Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	3.87E-03	1.70E-03	< 3.34E-05	< 3.82E-05	< 3.29E-05	< 3.80E-05	< 1.31E-03	< 5.91E-04
		Cyclopentene	142-29-0	< 2.94E-05	< 3.28E-05	1.05E-02	6.33E-03	8.18E-03	1.56E-02	< 6.23E-03	< 7.31E-03
1		Dichlorodifluoromethane	00075-71-8	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		d-Limonene	5989-27-5	< 1.47E-04	8.21E-04	< 1.46E-04	< 1.66E-04	< 1.44E-04	< 1.66E-04	< 1.45E-04	< 3.84E-04
1		Epichlorohydrin	00106-89-8	< 1.04E-03	< 1.16E-03	< 1.03E-03	< 1.18E-03	< 1.01E-03	< 1.17E-03	< 1.03E-03	< 1.17E-03
		Ethane	74-84-0	6.32E-04	5.07E-04	5.47E-04	3.49E-04	8.71E-04	9.42E-04	6.83E-04	5.99E-04
1	2	Ethanol		0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	1.16E-03
1	2	Ethyl Butyl Ketone		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	5.91E-04	0.00E+00
		Ethylacetylene	107-00-6	< 2.91E-05	< 3.26E-05	< 2.89E-05	< 3.31E-05	< 2.85E-05	< 3.29E-05	< 2.89E-05	< 3.29E-05
		Ethylbenzene	100-41-4	1.04E-03	1.14E-03	3.26E-04	< 3.24E-05	< 2.80E-05	< 3.23E-05	< 4.66E-04	< 4.00E-04
		Ethylene	74-85-1	3.33E-04	3.21E-04	4.80E-04	3.60E-04	5.32E-04	5.55E-04	4.48E-04	4.12E-04
1		Hexachlorobutadiene	00087-68-3	< 1.04E-03	< 1.16E-03	< 1.03E-03	< 1.18E-03	< 1.01E-03	< 1.17E-03	< 1.03E-03	< 1.17E-03
1	2	Hexanal		0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	5.88E-04
1	2	Isobutanal		2.59E-02	5.80E-02	2.57E-02	1.76E-02	2.53E-02	5.85E-02	2.56E-02	4.47E-02
		Isobutane	75-28-5	1.72E-02	2.45E-02	< 3.11E-05	< 3.55E-05	< 3.06E-05	< 3.53E-05	< 5.76E-03	< 8.20E-03
		Isobutylene + 1-Butene	115-11-7/106-98-9	8.01E-04	7.27E-04	2.10E-03	2.57E-03	2.36E-03	9.64E-04	1.76E-03	1.42E-03
		Isooctane	540-84-1	2.31E-03	3.27E-03	8.86E-04	5.24E-04	6.17E-04	2.17E-04	1.27E-03	1.34E-03
		Isopentane	78-78-4	1.18E-02	1.32E-02	3.86E-02	3.53E-02	4.41E-02	3.33E-02	3.15E-02	2.73E-02
		Isoprene	78-79-5	< 2.94E-05	< 3.28E-05	3.35E-04	2.16E-04	3.16E-04	3.56E-04	< 2.27E-04	< 2.02E-04
1	2	Methacrolein		2.59E-03	5.80E-03	5.14E-03	2.94E-03	5.06E-03	8.77E-03	4.27E-03	5.84E-03
1	2	Methyl Isoamyl Ketone		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	8.44E-04	0.00E+00
		Methylacetylene	74-99-7	< 2.81E-05	< 3.14E-05	< 2.78E-05	< 3.18E-05	< 2.74E-05	< 3.17E-05	< 2.78E-05	< 3.16E-05
		Methylcyclohexane	108-87-2	1.33E-03	1.61E-03	9.90E-04	6.51E-04	1.48E-03	1.69E-03	1.27E-03	1.32E-03
		Methylcyclopentane	96-37-7	9.22E-02	1.37E-01	< 3.00E-05	< 3.43E-05	< 2.96E-05	< 3.41E-05	< 3.08E-02	< 4.57E-02
1		Methylene Chloride	00079-09-2	1.14E-02	7.24E-04	6.17E-04	4.11E-04	8.61E-04	4.09E-04	4.29E-03	5.15E-04
		m-Ethyltoluene	620-14-4	6.48E-04	< 3.22E-05	< 2.86E-05	< 3.26E-05	< 2.81E-05	< 3.25E-05	< 2.35E-04	< 3.24E-05
		m-Xylene + p-Xylene	108-38-3/106-42-3	< 2.86E-05	< 3.20E-05	1.56E-03	6.49E-04	1.15E-03	7.91E-04	< 9.12E-04	< 4.91E-04
		n-Butane	106-97-8	2.19E-03	4.20E-03	2.33E-03	1.51E-03	2.91E-03	4.07E-03	2.48E-03	3.26E-03
		n-Decane	124-18-5	4.45E-04	< 1.72E-04	< 1.52E-04	< 1.74E-04	< 1.50E-04	< 1.73E-04	< 2.49E-04	< 1.73E-04
		n-Heptane	142-82-5	< 3.08E-05	< 3.45E-05	2.76E-03	1.75E-03	2.41E-03	2.96E-03	< 1.73E-03	< 1.58E-03
		n-Hexane	110-54-3	5.42E-04	6.75E-04	1.84E-03	1.18E-03	1.66E-03	1.58E-03	1.35E-03	1.14E-03
		n-Nonane	111-84-2	< 3.07E-05	< 3.44E-05	1.46E-03	8.88E-04	1.50E-03	2.86E-04	< 9.98E-04	< 4.03E-04
		n-Octane	111-65-9	< 3.08E-05	< 3.44E-05	9.16E-04	5.41E-04	8.42E-04	5.73E-04	< 5.96E-04	< 3.83E-04
		n-Pentane	109-66-0	4.66E-04	5.39E-04	8.03E-04	6.70E-04	8.97E-04	9.13E-04	7.22E-04	7.07E-04
		n-Propylbenzene	103-65-1	< 2.88E-05	< 3.22E-05	< 2.86E-05	< 3.26E-05	< 2.81E-05	< 3.25E-05	< 2.85E-05	< 3.24E-05
1	2	n-Undecane		0.00E+00	0.00E+00	1.80E-03	1.47E-03	2.53E-03	0.00E+00	1.44E-03	4.90E-04
		o-Ethyltoluene	611-14-3	< 1.44E-04	< 1.61E-04	7.43E-04	7.67E-04	2.11E-03	4.14E-04	< 9.99E-04	< 4.47E-04
		o-Xylene	95-47-6	< 2.86E-05	1.39E-03	5.11E-04	6.16E-04	5.73E-04	< 3.23E-05	< 3.71E-04	< 6.80E-04
		p-Cymene	99-87-6	5.79E-04	6.31E-04	< 1.44E-04	< 1.64E-04	< 1.41E-04	< 1.63E-04	< 2.88E-04	< 3.19E-04
		p-Ethyltoluene	622-96-8	6.48E-04	5.96E-04	5.00E-04	< 3.26E-05	< 2.81E-05	< 3.25E-05	< 3.92E-04	< 2.20E-04
		Propane	74-98-6	2.22E-03	2.66E-03	3.62E-03	1.29E-03	2.63E-03	5.18E-03	2.82E-03	3.05E-03
		Propylene	115-07-1	1.96E-04	1.62E-04	< 3.00E-05	< 3.43E-05	< 2.96E-05	< 3.41E-05	< 8.53E-05	< 7.69E-05
1		Propylene Oxide	00075-56-9	4.66E-02	3.19E-02	1.72E-02	1.18E-02	1.39E-02	3.80E-02	2.59E-02	2.72E-02
		Styrene	100-42-5	2.81E-04	< 3.14E-05	< 2.78E-05	< 3.18E-05	< 2.74E-05	< 3.17E-05	< 1.12E-04	< 3.16E-05
1		t-Butyl Methyl Ether	01634-04-4	< 1.04E-03	< 1.16E-03	< 1.03E-03	< 1.18E-03	< 1.01E-03	< 1.17E-03	< 1.03E-03	< 1.17E-03
1		Tetrachloroethene	00127-18-4	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		Toluene	108-88-3	4.82E-05	2.38E-04	3.10E-03	1.77E-03	6.93E-03	9.85E-03	3.36E-03	3.95E-03
1		trans-1,2-Dichloroethene	00156-60-5	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		trans-1,2-Dichloropropene	10061-01-5	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		trans-2-Butene	624-64-6	< 3.02E-05	4.06E-04	< 3.00E-05	7.20E-04	< 2.96E-05	4.27E-04	< 2.99E-05	5.17E-04
		trans-2-Hexene	4050-45-7	< 3.02E-05	< 3.38E-05	< 3.00E-05	< 3.43E-05	< 2.96E-05	< 3.41E-05	< 2.99E-05	< 3.41E-05
		trans-2-Pentene	646-04-8	< 3.02E-05	< 3.38E-05	< 3.00E-05	< 3.43E-05	< 2.96E-05	< 3.41E-05	< 2.99E-05	< 3.41E-05
1		Trichloroethene	00079-01-6	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1		Trichlorofluoromethane	00075-69-4	4.66E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 4.96E-04	< 5.84E-04
1		Trichlortrifluoroethane	00076-13-1	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
1	2	Unknown		7.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00
1		Vinyl Acetate	00108-05-4	1.19E-03	5.22E-03	5.14E-03	3.82E-03	5.06E-03	4.97E-03	3.80E-03	4.67E-03
1		Vinyl Chloride	00075-01-4	< 5.18E-04	< 5.80E-04	< 5.14E-04	< 5.88E-04	< 5.06E-04	< 5.85E-04	< 5.13E-04	< 5.84E-04
		Total Detected		4.68E-01	5.73E-01	2.84E-01	2.04E-01	3.09E-01	4.08E-01	3.54E-01	3.95E-01
		Total with non-detects		< 4.94E-01	< 6.02E-01	< 3.13E-01	< 2.37E-01	< 3.38E-01	< 4.38E-01	< 3.82E-01	< 4.26E-01

1 = TO14 Compounds 2 = Tentatively Identified Compounds

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TABLE B.3-3
MIXER CONTROL DEVICE SPECIATED VOLATILES SUMMARY

			CAS	Run 1		Run 2		Run 3		AVERAGES	
		Compounds	Numbers	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet w/ non-detects	Outlet w/ non-detects
		Speciated Vol (lb/lb rubber)									
		1-Heptene	592-76-7	< 4.18E-09	< 4.67E-09	< 3.20E-09	< 3.65E-09	< 3.26E-09	5.94E-08	< 3.55E-09	< 2.26E-08
		1-Hexene	592-41-6	5.22E-08	1.05E-07	4.64E-08	4.39E-08	6.53E-08	< 3.77E-09	5.46E-08	< 5.09E-08
		1-Octene	111-60-0	< 4.18E-09	< 4.67E-09	< 3.20E-09	< 3.65E-09	< 3.26E-09	< 3.77E-09	< 3.55E-09	< 4.03E-09
		1-Pentene	109-67-1	1.13E-07	1.56E-07	9.91E-08	8.41E-08	1.24E-07	5.47E-08	1.12E-07	9.84E-08
1		1,1-Dichloroethane	00075-34-3	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		1,1-Dichloroethene	00075-35-4	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		1,1,1-Trichloroethane	00071-55-6	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		1,1,2-Trichloroethane	00079-00-5	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.43E-07	< 1.60E-07	< 1.10E-07	< 1.25E-07	< 1.12E-07	< 1.29E-07	< 1.22E-07	< 1.38E-07
1		1,2-Dibromoethane	00106-93-4	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		1,2-Dichlorobenzene	00095-50-1	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		1,2-Dichloroethane	00107-06-2	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		1,2-Dichloropropane	00078-87-5	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		1,2,4-Trimethylbenzene	95-63-6	1.17E-07	< 2.22E-08	< 1.52E-08	< 1.74E-08	< 1.55E-08	< 1.79E-08	< 4.93E-08	< 1.92E-08
		1,3-Butadiene	106-99-0	3.22E-07	4.50E-07	2.31E-07	3.35E-07	3.62E-07	4.63E-07	3.05E-07	4.16E-07
1		1,3-Dichlorobenzene	00541-73-1	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		1,3,5-Trimethylbenzene	108-67-8	< 1.99E-08	1.42E-07	< 1.52E-08	< 1.74E-08	< 1.55E-08	< 1.79E-08	< 1.69E-08	< 5.92E-08
1		1,4-Dichlorobenzene	00106-46-7	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 2.00E-08	< 2.23E-08	< 1.53E-08	< 1.75E-08	< 1.56E-08	< 1.80E-08	< 1.70E-08	< 1.93E-08
1		1,4-Dioxane	00123-91-1	6.08E-07	3.20E-07	< 2.19E-07	< 2.51E-07	< 2.24E-07	< 2.58E-07	< 3.50E-07	< 2.76E-07
1		2-Butanone	00078-93-3	3.58E-07	4.40E-07	9.04E-07	6.26E-07	6.71E-07	1.13E-06	6.45E-07	7.32E-07
1	2	2-Butene		0.00E+00	0.00E+00	2.74E-07	2.51E-07	2.80E-07	0.00E+00	1.85E-07	8.35E-08
1		2-Hexanone	00591-78-6	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		2-Methyl-1-butene	563-46-2	4.80E-07	1.21E-07	1.14E-07	8.77E-08	1.11E-07	< 3.77E-09	2.35E-07	< 7.10E-08
		2-Methyl-2-butene	513-35-9	< 4.18E-09	< 4.67E-09	9.91E-08	4.02E-08	9.96E-08	5.75E-08	< 6.76E-08	< 3.41E-08
		2-Methyl-2-pentene	625-27-4	< 4.18E-09	< 4.67E-09	7.84E-08	6.03E-08	1.03E-07	6.97E-08	< 6.18E-08	< 4.49E-08
1	2	2-Methylbutanal		3.58E-06	4.00E-06	1.92E-06	1.57E-06	1.96E-06	3.23E-06	2.48E-06	2.93E-06
		2-Methylheptane	592-27-8	< 4.25E-09	< 4.75E-09	1.01E-07	3.53E-08	1.36E-07	1.70E-07	< 8.05E-08	< 7.00E-08
		2-Methylhexane	591-76-4	< 4.26E-09	< 4.77E-09	1.11E-07	8.95E-08	1.02E-07	1.58E-07	< 7.23E-08	< 8.40E-08
		2-Methylpentane	107-83-5	1.15E-07	5.98E-07	5.73E-07	4.68E-07	6.68E-07	1.86E-07	4.52E-07	4.17E-07
		2,2-Dimethylbutane	75-83-2	1.15E-05	1.58E-05	< 3.27E-09	< 3.74E-09	< 3.34E-09	< 3.86E-09	< 3.85E-06	< 5.26E-06
		2,2-Dimethylpropane	463-82-1	< 4.30E-09	< 4.81E-09	< 3.29E-09	< 3.76E-09	< 3.36E-09	< 3.88E-09	< 3.65E-09	< 4.15E-09
		2,3-Dimethylpentane	565-59-3	3.41E-07	4.53E-07	5.71E-07	2.98E-08	3.00E-08	5.10E-08	3.14E-07	1.78E-07
		2,3,4-Trimethylpentane	565-75-3	5.95E-07	5.94E-07	< 3.26E-09	< 3.72E-09	< 3.32E-09	< 3.84E-09	< 2.01E-07	< 2.01E-07
		2,4-Dimethylhexane	589-43-5	< 4.25E-09	< 4.75E-09	1.47E-07	1.19E-07	2.33E-07	3.07E-07	< 1.28E-07	< 1.44E-07
1	2	3-Methylbutanal		7.16E-06	8.01E-06	5.48E-06	3.13E-06	5.59E-06	9.69E-06	6.08E-06	6.94E-06
		3-Methylhexane	589-34-4	< 4.26E-09	< 4.77E-09	2.77E-07	2.05E-07	2.83E-07	3.08E-07	< 1.88E-07	< 1.73E-07
		3-Methylpentane	96-14-0	< 4.28E-09	6.22E-08	1.96E-07	8.42E-08	1.02E-07	1.05E-07	< 1.01E-07	8.38E-08
		4-Methyl-1-pentene	691-37-2	7.72E-08	5.14E-08	< 3.20E-09	< 3.65E-09	2.77E-07	< 3.77E-09	< 1.19E-07	< 1.96E-08
1		4-Methyl-2-pentanone	00108-10-1	1.07E-07	1.72E-07	7.67E-08	5.95E-08	9.79E-07	1.61E-07	3.88E-07	1.31E-07
1	2	4-Vinyl Cyclohexene		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-07	3.23E-07	9.32E-08	1.08E-07
1	2	Acetaldehyde		2.50E-06	3.60E-06	1.64E-06	9.39E-07	1.68E-06	3.23E-06	1.94E-06	2.59E-06
1		Acetone	00067-64-1	1.97E-06	1.24E-06	2.74E-06	2.51E-06	3.08E-06	2.55E-06	2.60E-06	2.10E-06
1		Acetonitrile	01722-09-4	< 1.43E-07	< 1.60E-07	< 1.10E-07	< 1.25E-07	< 1.12E-07	6.78E-08	< 1.22E-07	< 1.18E-07
1	2	Acetophenone		3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-07	0.00E+00
		Acetylene	74-86-2	< 3.88E-09	< 4.34E-09	< 2.97E-09	< 3.39E-09	< 3.03E-09	< 3.50E-09	< 3.29E-09	< 3.74E-09
1		Acrolein	00107-02-8	< 1.43E-07	7.61E-08	< 1.10E-07	< 1.25E-07	< 1.12E-07	4.20E-08	< 1.22E-07	< 8.11E-08
1		Acrylonitrile	00107-13-1	< 1.43E-07	< 1.60E-07	< 1.10E-07	< 1.25E-07	< 1.12E-07	< 1.29E-07	< 1.22E-07	< 1.38E-07
1		Allyl Chloride	00107-05-1	< 1.43E-07	< 1.60E-07	< 1.10E-07	< 1.25E-07	< 1.12E-07	< 1.29E-07	< 1.22E-07	< 1.38E-07
		a-Pinene	7785-70-8	< 4.06E-09	< 4.54E-09	< 3.11E-09	< 3.55E-09	1.28E-07	< 3.66E-09	< 4.52E-08	< 3.92E-09
		Benzene	71-43-2	< 3.88E-09	< 4.34E-09	1.17E-07	9.84E-08	1.67E-07	1.84E-07	< 9.59E-08	< 9.55E-08
1		Benzyl Chloride	00100-44-7	< 1.43E-07	< 1.60E-07	< 1.10E-07	< 1.25E-07	< 1.12E-07	< 1.29E-07	< 1.22E-07	< 1.38E-07
		b-Pinene	18172-67-3	1.38E-07	2.50E-07	< 1.55E-08	< 1.77E-08	< 1.59E-08	< 1.83E-08	< 5.64E-08	< 9.52E-08
1		Bromodichloromethane	00075-27-4	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		Bromoform	00075-25-2	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		Bromomethane	00074-83-9	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1	2	C11H24 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-07	0.00E+00	1.86E-07	0.00E+00
1	2	C5H10 Alkene		2.50E-07	8.01E-07	5.48E-07	3.13E-07	5.59E-07	6.46E-07	4.53E-07	5.87E-07
1	2	C8H18 Alkane		7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-07	0.00E+00
1		Carbon Disulfide	00075-15-0	2.15E-07	6.80E-08	< 5.48E-08	5.32E-08	1.31E-07	4.20E-07	< 1.34E-07	1.80E-07
1		Carbon Tetrachloride	00056-23-5	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		Chlorobenzene	00108-90-7	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		Chlorodibromomethane	00124-48-1	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		Chloroethane	00075-00-3	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		Chloroform	00067-66-3	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		Chloromethane	00074-87-3	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08

1 = TO14 Compounds 2 = Tentatively Identified Compounds

TRC

TABLE B.3-3
MIXER CONTROL DEVICE SPECIATED VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGES Inlet w/ non-detects	AVERAGES Outlet w/ non-detects
Speciated Vol (lb/lb rubber)											
1		cis-1,2-Dichloroethene	00156-59-2	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		cis-1,3-Dichloropropene	10061-01-5	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		cis-2-Butene	590-18-1	< 4.18E-09	< 4.67E-09	< 3.20E-09	< 3.65E-09	< 3.26E-09	< 3.77E-09	< 3.55E-09	< 4.03E-09
		cis-2-Hexene	7688-21-3	< 4.18E-09	< 4.67E-09	< 3.20E-09	< 3.65E-09	< 3.26E-09	< 3.77E-09	< 3.55E-09	< 4.03E-09
		cis-2-Pentene	627-20-3	< 4.18E-09	1.35E-07	< 3.20E-09	< 3.65E-09	< 3.26E-09	< 3.77E-09	< 3.55E-09	< 4.76E-08
		Cumene	98-82-8	< 3.98E-09	6.00E-08	< 3.05E-09	< 3.48E-09	< 3.11E-09	< 3.59E-09	< 3.38E-09	< 2.24E-08
		Cyclohexane	110-82-7	3.13E-07	6.31E-08	< 3.20E-09	6.76E-08	< 3.26E-09	4.62E-08	< 1.07E-07	5.89E-08
		Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	5.35E-07	2.34E-07	< 3.56E-09	< 4.07E-09	< 3.64E-09	< 4.20E-09	< 1.81E-07	< 8.08E-08
		Cyclopentene	142-29-0	< 4.06E-09	< 4.54E-09	1.12E-06	6.74E-07	9.03E-07	1.72E-06	< 6.75E-07	< 8.00E-07
1		Dichlorodifluoromethane	00075-71-8	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		d-Limonene	5989-27-5	< 2.03E-08	1.13E-07	< 1.55E-08	< 1.77E-08	< 1.59E-08	< 1.83E-08	< 1.72E-08	< 4.98E-08
1		Epichlorohydrin	00106-89-8	< 1.43E-07	< 1.60E-07	< 1.10E-07	< 1.25E-07	< 1.12E-07	< 1.29E-07	< 1.22E-07	< 1.38E-07
		Ethane	74-84-0	8.73E-08	7.01E-08	5.83E-08	3.72E-08	9.62E-08	1.04E-07	8.06E-08	7.04E-08
1	2	Ethanol		0.00E+00	2.40E-07	0.00E+00	0.00E+00	0.00E+00	1.94E-07	0.00E+00	1.45E-07
1	2	Ethyl Butyl Ketone		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-07	0.00E+00	6.53E-08	0.00E+00
		Ethylacetylene	107-00-6	< 4.03E-09	< 4.50E-09	< 3.08E-09	< 3.52E-09	< 3.15E-09	< 3.63E-09	< 3.42E-09	< 3.89E-09
		Ethylbenzene	100-41-4	1.44E-07	1.57E-07	3.48E-08	< 3.46E-09	< 3.09E-09	< 3.57E-09	< 6.07E-08	< 5.46E-08
		Ethylene	74-85-1	4.59E-08	4.44E-08	5.12E-08	3.84E-08	5.88E-08	6.12E-08	5.20E-08	4.80E-08
1		Hexachlorobutadiene	00087-68-3	< 1.43E-07	< 1.60E-07	< 1.10E-07	< 1.25E-07	< 1.12E-07	< 1.29E-07	< 1.22E-07	< 1.38E-07
1	2	Hexanal		0.00E+00	0.00E+00	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	6.26E-08
1	2	Isobutanal		3.58E-06	8.01E-06	2.74E-06	1.88E-06	2.80E-06	6.46E-06	3.04E-06	5.45E-06
		Isobutane	75-28-5	2.38E-06	3.39E-06	< 3.31E-09	< 3.79E-09	< 3.38E-09	< 3.90E-09	< 7.95E-07	< 1.13E-06
		Isobutylene + 1-Butene	115-11-7/106-98-9	1.11E-07	1.00E-07	2.24E-07	2.74E-07	2.61E-07	1.06E-07	1.99E-07	1.60E-07
		Isooctane	540-84-1	3.19E-07	4.52E-07	9.44E-08	5.58E-08	6.81E-08	2.40E-08	1.60E-07	1.77E-07
		Isopentane	78-78-4	1.63E-06	1.83E-06	4.11E-06	3.76E-06	4.87E-06	3.68E-06	3.54E-06	3.09E-06
		Isoprene	78-79-5	< 4.06E-09	< 4.54E-09	3.57E-08	2.31E-08	3.49E-08	3.94E-08	< 2.49E-08	< 2.23E-08
1	2	Methacrolein		3.58E-07	8.01E-07	5.48E-07	3.13E-07	5.59E-07	9.69E-07	4.88E-07	6.94E-07
1	2	Methyl Isoamyl Ketone		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-07	0.00E+00	9.32E-08	0.00E+00
		Methylacetylene	74-99-7	< 3.88E-09	< 4.34E-09	< 2.97E-09	< 3.39E-09	< 3.03E-09	< 3.50E-09	< 3.29E-09	< 3.74E-09
		Methylcyclohexane	108-87-2	1.84E-07	2.22E-07	1.06E-07	6.94E-08	1.63E-07	1.87E-07	1.51E-07	1.59E-07
		Methylcyclopentane	96-37-7	1.27E-05	1.89E-05	< 3.20E-09	< 3.65E-09	< 3.26E-09	< 3.77E-09	< 4.25E-06	< 6.31E-06
1		Methylene Chloride	00079-09-2	1.57E-06	1.00E-07	6.58E-08	4.38E-08	9.51E-08	4.52E-08	5.78E-07	6.30E-08
		m-Ethyltoluene	620-14-4	8.94E-08	< 4.45E-09	< 3.05E-09	< 3.48E-09	< 3.11E-09	< 3.59E-09	< 3.19E-08	< 3.84E-09
		m-Xylene + p-Xylene	108-38-3/106-42-3	< 3.95E-09	< 4.42E-09	1.66E-07	6.92E-08	1.27E-07	8.74E-08	< 9.90E-08	< 5.36E-08
		n-Butane	106-97-8	3.03E-07	5.81E-07	2.48E-07	1.61E-07	3.21E-07	4.49E-07	2.91E-07	3.97E-07
		n-Decane	124-18-5	6.14E-08	< 2.37E-08	< 1.62E-08	< 1.85E-08	< 1.66E-08	< 1.91E-08	< 3.14E-08	< 2.04E-08
		n-Heptane	142-82-5	< 4.26E-09	< 4.77E-09	2.94E-07	1.86E-07	2.66E-07	3.27E-07	< 1.88E-07	< 1.73E-07
		n-Hexane	110-54-3	7.48E-08	9.33E-08	1.96E-07	1.25E-07	1.84E-07	1.75E-07	1.52E-07	1.31E-07
		n-Nonane	111-84-2	< 4.24E-09	< 4.75E-09	1.56E-07	9.47E-08	1.66E-07	3.16E-08	< 1.09E-07	< 4.37E-08
		n-Octane	111-65-9	< 4.25E-09	< 4.75E-09	9.77E-08	5.77E-08	9.30E-08	6.33E-08	< 6.50E-08	< 4.19E-08
		n-Pentane	109-66-0	6.44E-08	7.45E-08	8.55E-08	7.14E-08	9.91E-08	1.01E-07	8.30E-08	8.22E-08
		n-Propylbenzene	103-65-1	< 3.98E-09	< 4.45E-09	< 3.05E-09	< 3.48E-09	< 3.11E-09	< 3.59E-09	< 3.38E-09	< 3.84E-09
1	2	n-Undecane		0.00E+00	0.00E+00	1.92E-07	1.57E-07	2.80E-07	0.00E+00	1.57E-07	5.22E-08
		o-Ethyltoluene	611-14-3	< 1.99E-08	< 2.22E-08	7.92E-08	8.18E-08	2.33E-07	4.58E-08	< 1.11E-07	< 4.99E-08
		o-Xylene	95-47-6	< 3.95E-09	1.92E-07	5.45E-08	6.57E-08	6.33E-08	< 3.57E-09	< 4.06E-08	< 8.72E-08
		p-Cymene	99-87-6	7.99E-08	8.72E-08	< 1.53E-08	< 1.75E-08	< 1.56E-08	< 1.80E-08	< 3.69E-08	< 4.09E-08
		p-Ethyltoluene	622-96-8	8.94E-08	8.23E-08	5.33E-08	< 3.48E-09	< 3.11E-09	< 3.59E-09	< 4.86E-08	< 2.98E-08
		Propane	74-98-6	3.06E-07	3.67E-07	3.85E-07	1.38E-07	2.91E-07	5.73E-07	3.27E-07	3.59E-07
		Propylene	115-07-1	2.71E-08	2.24E-08	< 3.20E-09	< 3.65E-09	< 3.26E-09	< 3.77E-09	< 1.12E-08	< 9.95E-09
1		Propylene Oxide	00075-56-9	6.44E-06	4.40E-06	1.84E-06	1.25E-06	1.54E-06	4.20E-06	3.27E-06	3.28E-06
		Styrene	100-42-5	3.88E-08	< 4.34E-09	< 2.97E-09	< 3.39E-09	< 3.03E-09	< 3.50E-09	< 1.49E-08	< 3.74E-09
1		t-Butyl Methyl Ether	01634-04-4	< 1.43E-07	< 1.60E-07	< 1.10E-07	< 1.25E-07	< 1.12E-07	< 1.29E-07	< 1.22E-07	< 1.38E-07
1		Tetrachloroethene	00127-18-4	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		Toluene	108-88-3	6.66E-09	3.29E-08	3.30E-07	1.89E-07	7.66E-07	1.09E-06	3.68E-07	4.36E-07
1		trans-1,2-Dichloroethene	00156-60-5	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		trans-1,2-Dichloropropene	10061-01-5	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		trans-2-Butene	624-64-6	< 4.18E-09	5.61E-08	< 3.20E-09	7.67E-08	< 3.26E-09	4.71E-08	< 3.55E-09	6.00E-08
		trans-2-Hexene	4050-45-7	< 4.18E-09	< 4.67E-09	< 3.20E-09	< 3.65E-09	< 3.26E-09	< 3.77E-09	< 3.55E-09	< 4.03E-09
		trans-2-Pentene	646-04-8	< 4.18E-09	< 4.67E-09	< 3.20E-09	< 3.65E-09	< 3.26E-09	< 3.77E-09	< 3.55E-09	< 4.03E-09
1		Trichloroethene	00079-01-6	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1		Trichlorofluoromethane	00075-69-4	6.44E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 5.84E-08	< 6.91E-08
1		Trichlortrifluoroethane	00076-13-1	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
1	2	Unknown		1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-07	0.00E+00
1		Vinyl Acetate	00108-05-4	1.65E-07	7.20E-07	5.48E-07	4.07E-07	5.59E-07	5.49E-07	4.24E-07	5.59E-07
1		Vinyl Chloride	00075-01-4	< 7.16E-08	< 8.01E-08	< 5.48E-08	< 6.26E-08	< 5.59E-08	< 6.46E-08	< 6.08E-08	< 6.91E-08
		Total Detected		6.46E-05	7.91E-05	3.03E-05	2.18E-05	3.41E-05	4.50E-05	4.30E-05	4.87E-05
		Total with non-detects		< 6.82E-05	< 8.31E-05	< 3.34E-05	< 2.53E-05	< 3.73E-05	< 4.84E-05	< 4.63E-05	< 5.23E-05

1 = TO14 Compounds 2 = Tentatively Identified Compounds

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TABLE B.3-4
MIXER CONTROL DEVICE SULFUR SUMMARY

Compounds	CAS Number	Run 1		Run 2		Run 3		AVERAGE	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Sulfur (µg/m³)									
Carbonyl Sulfide	463-58-1	62.40	59.70	54.90	33.40	72.90	92.60	63.40	61.90
Methyl Mercaptan	74-93-1	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90
Ethyl Mercaptan	75-08-1	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Dimethyl Sulfide	75-18-3	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Carbon Disulfide	75-15-0	23.30	< 12.00	< 12.00	< 12.00	28.70	92.10	< 21.33	< 38.70
Isopropyl Mercaptan	75-33-2	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00
tert-Butyl Mercaptan	75-66-1	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00
n-Propyl Mercaptan	107-03-9	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00
Ethyl Methyl Sulfide	624-89-5	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00	< 12.00
Thiophene	110-02-1	< 14.00	< 14.00	< 14.00	< 14.00	< 14.00	< 14.00	< 14.00	< 14.00
Isobutyl Mercaptan	513-44-0	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00
Diethyl Sulfide	352-93-2	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00
n-Butyl Mercaptan	109-79-5	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00	< 15.00
Dimethyl Disulfide	624-92-0	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	24.50	< 7.70	< 13.30
3-Methylthiophene	616-44-4	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
Tetrahydrothiophene	110-01-0	< 14.00	< 14.00	< 14.00	< 14.00	< 14.00	< 14.00	< 14.00	< 14.00
2-Ethylthiophene	872-55-9	< 18.00	< 18.00	< 18.00	< 18.00	< 18.00	< 18.00	< 18.00	< 18.00
2,5-Dimethylthiophene	638-02-8	< 18.00	< 18.00	< 18.00	< 18.00	< 18.00	< 18.00	< 18.00	< 18.00
Diethyl Disulfide	110-81-6	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Total Detected		85.70	59.70	54.90	33.40	101.60	209.20	80.73	100.77
Total with non-detects		< 307.30	< 293.30	< 288.50	< 267.00	< 323.20	< 423.10	< 306.33	< 327.80
Sulfur (lbs/hr)									
Carbonyl Sulfide	463-58-1	1.62E-03	1.73E-03	1.41E-03	9.81E-04	1.85E-03	2.71E-03	1.62E-03	1.81E-03
Methyl Mercaptan	74-93-1	< 2.05E-04	< 2.29E-04	< 2.03E-04	< 2.32E-04	< 2.00E-04	< 2.31E-04	< 2.03E-04	< 2.31E-04
Ethyl Mercaptan	75-08-1	< 2.59E-04	< 2.90E-04	< 2.57E-04	< 2.94E-04	< 2.53E-04	< 2.92E-04	< 2.56E-04	< 2.92E-04
Dimethyl Sulfide	75-18-3	< 2.59E-04	< 2.90E-04	< 2.57E-04	< 2.94E-04	< 2.53E-04	< 2.92E-04	< 2.56E-04	< 2.92E-04
Carbon Disulfide	75-15-0	6.04E-04	< 3.48E-04	< 3.09E-04	< 3.53E-04	7.27E-04	2.69E-03	< 5.46E-04	< 1.13E-03
Isopropyl Mercaptan	75-33-2	< 3.11E-04	< 3.48E-04	< 3.09E-04	< 3.53E-04	< 3.04E-04	< 3.51E-04	< 3.08E-04	< 3.50E-04
tert-Butyl Mercaptan	75-66-1	< 3.89E-04	< 4.35E-04	< 3.86E-04	< 4.41E-04	< 3.80E-04	< 4.39E-04	< 3.85E-04	< 4.38E-04
n-Propyl Mercaptan	107-03-9	< 3.11E-04	< 3.48E-04	< 3.09E-04	< 3.53E-04	< 3.04E-04	< 3.51E-04	< 3.08E-04	< 3.50E-04
Ethyl Methyl Sulfide	624-89-5	< 3.11E-04	< 3.48E-04	< 3.09E-04	< 3.53E-04	< 3.04E-04	< 3.51E-04	< 3.08E-04	< 3.50E-04
Thiophene	110-02-1	< 3.63E-04	< 4.06E-04	< 3.60E-04	< 4.11E-04	< 3.55E-04	< 4.09E-04	< 3.59E-04	< 4.09E-04
Isobutyl Mercaptan	513-44-0	< 3.89E-04	< 4.35E-04	< 3.86E-04	< 4.41E-04	< 3.80E-04	< 4.39E-04	< 3.85E-04	< 4.38E-04
Diethyl Sulfide	352-93-2	< 3.89E-04	< 4.35E-04	< 3.86E-04	< 4.41E-04	< 3.80E-04	< 4.39E-04	< 3.85E-04	< 4.38E-04
n-Butyl Mercaptan	109-79-5	< 3.89E-04	< 4.35E-04	< 3.86E-04	< 4.41E-04	< 3.80E-04	< 4.39E-04	< 3.85E-04	< 4.38E-04
Dimethyl Disulfide	624-92-0	< 1.99E-04	< 2.23E-04	< 1.98E-04	< 2.26E-04	< 1.95E-04	7.16E-04	< 1.97E-04	< 3.89E-04
3-Methylthiophene	616-44-4	< 4.14E-04	< 4.64E-04	< 4.11E-04	< 4.70E-04	< 4.05E-04	< 4.68E-04	< 4.10E-04	< 4.67E-04
Tetrahydrothiophene	110-01-0	< 3.63E-04	< 4.06E-04	< 3.60E-04	< 4.11E-04	< 3.55E-04	< 4.09E-04	< 3.59E-04	< 4.09E-04
2-Ethylthiophene	872-55-9	< 4.66E-04	< 5.22E-04	< 4.63E-04	< 5.29E-04	< 4.56E-04	< 5.26E-04	< 4.62E-04	< 5.26E-04
2,5-Dimethylthiophene	638-02-8	< 4.66E-04	< 5.22E-04	< 4.63E-04	< 5.29E-04	< 4.56E-04	< 5.26E-04	< 4.62E-04	< 5.26E-04
Diethyl Disulfide	110-81-6	< 2.59E-04	< 2.90E-04	< 2.57E-04	< 2.94E-04	< 2.53E-04	< 2.92E-04	< 2.56E-04	< 2.92E-04
Total Detected		2.22E-03	1.73E-03	1.41E-03	9.81E-04	2.57E-03	6.12E-03	2.07E-03	2.94E-03
Total with non-detects		< 7.96E-03	< 8.50E-03	< 7.42E-03	< 7.84E-03	< 8.18E-03	< 1.24E-02	< 7.85E-03	< 9.57E-03
Sulfur (lbs/lb rubber)									
Carbonyl Sulfide	463-58-1	2.23E-07	2.39E-07	1.50E-07	1.05E-07	2.04E-07	2.99E-07	1.93E-07	2.14E-07
Methyl Mercaptan	74-93-1	< 2.83E-08	< 3.16E-08	< 2.17E-08	< 2.47E-08	< 2.21E-08	< 2.55E-08	< 2.40E-08	< 2.73E-08
Ethyl Mercaptan	75-08-1	< 3.58E-08	< 4.00E-08	< 2.74E-08	< 3.13E-08	< 2.80E-08	< 3.23E-08	< 3.04E-08	< 3.45E-08
Dimethyl Sulfide	75-18-3	< 3.58E-08	< 4.00E-08	< 2.74E-08	< 3.13E-08	< 2.80E-08	< 3.23E-08	< 3.04E-08	< 3.45E-08
Carbon Disulfide	75-15-0	8.34E-08	< 4.80E-08	< 3.29E-08	< 3.76E-08	8.03E-08	2.97E-07	< 6.55E-08	< 1.28E-07
Isopropyl Mercaptan	75-33-2	< 4.29E-08	< 4.80E-08	< 3.29E-08	< 3.76E-08	< 3.36E-08	< 3.88E-08	< 3.65E-08	< 4.15E-08
tert-Butyl Mercaptan	75-66-1	< 5.37E-08	< 6.00E-08	< 4.11E-08	< 4.70E-08	< 4.20E-08	< 4.84E-08	< 4.56E-08	< 5.18E-08
n-Propyl Mercaptan	107-03-9	< 4.29E-08	< 4.80E-08	< 3.29E-08	< 3.76E-08	< 3.36E-08	< 3.88E-08	< 3.65E-08	< 4.15E-08
Ethyl Methyl Sulfide	624-89-5	< 4.29E-08	< 4.80E-08	< 3.29E-08	< 3.76E-08	< 3.36E-08	< 3.88E-08	< 3.65E-08	< 4.15E-08
Thiophene	110-02-1	< 5.01E-08	< 5.60E-08	< 3.84E-08	< 4.38E-08	< 3.92E-08	< 4.52E-08	< 4.25E-08	< 4.84E-08
Isobutyl Mercaptan	513-44-0	< 5.37E-08	< 6.00E-08	< 4.11E-08	< 4.70E-08	< 4.20E-08	< 4.84E-08	< 4.56E-08	< 5.18E-08
Diethyl Sulfide	352-93-2	< 5.37E-08	< 6.00E-08	< 4.11E-08	< 4.70E-08	< 4.20E-08	< 4.84E-08	< 4.56E-08	< 5.18E-08
n-Butyl Mercaptan	109-79-5	< 5.37E-08	< 6.00E-08	< 4.11E-08	< 4.70E-08	< 4.20E-08	< 4.84E-08	< 4.56E-08	< 5.18E-08
Dimethyl Disulfide	624-92-0	< 2.75E-08	< 3.08E-08	< 2.11E-08	< 2.41E-08	< 2.15E-08	7.91E-08	< 2.34E-08	< 4.47E-08
3-Methylthiophene	616-44-4	< 5.72E-08	< 6.40E-08	< 4.39E-08	< 5.01E-08	< 4.48E-08	< 5.17E-08	< 4.86E-08	< 5.53E-08
Tetrahydrothiophene	110-01-0	< 5.01E-08	< 5.60E-08	< 3.84E-08	< 4.38E-08	< 3.92E-08	< 4.52E-08	< 4.25E-08	< 4.84E-08
2-Ethylthiophene	872-55-9	< 6.44E-08	< 7.20E-08	< 4.93E-08	< 5.64E-08	< 5.03E-08	< 5.81E-08	< 5.47E-08	< 6.22E-08
2,5-Dimethylthiophene	638-02-8	< 6.44E-08	< 7.20E-08	< 4.93E-08	< 5.64E-08	< 5.03E-08	< 5.81E-08	< 5.47E-08	< 6.22E-08
Diethyl Disulfide	110-81-6	< 3.58E-08	< 4.00E-08	< 2.74E-08	< 3.13E-08	< 2.80E-08	< 3.23E-08	< 3.04E-08	< 3.45E-08
Total Detected		3.07E-07	2.39E-07	1.50E-07	1.05E-07	2.84E-07	6.76E-07	2.47E-07	3.40E-07
Total with non-detects		< 1.10E-06	< 1.17E-06	< 7.91E-07	< 8.36E-07	< 9.04E-07	< 1.37E-06	< 9.31E-07	< 1.13E-06

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TABLE B.3-5
MIXER CONTROL DEVICE METALS SUMMARY

	Run 1		Run 2		Run 3		AVERAGE	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
METALS (µg) *								
Cr	13.00	9.00	4.75	44.50	12.25	131.00	10.00	61.50
Cu	30.50	16.00	7.00	36.50	6.50	39.25	14.67	30.58
Mg	441.00	13.00	110.00	13.25	276.00	30.75	275.67	19.00
Ni	76.75	41.50	27.25	125.00	8.25	175.00	37.42	113.83
Zn	173197.00	584.50	317497.00	639.50	16047.00	249.50	168913.67	491.17
Cd	11.22	1.88	13.27	2.04	1.19	1.51	8.56	1.81
Pb	22.92	2.12	10.94	1.75	28.12	1.50	20.66	1.79
Total	173792.39	668.00	317670.21	862.54	16379.31	628.51	169280.64	719.68
METALS (µg/m³))								
Cr	6.41	5.40	2.32	25.95	5.99	74.66	4.91	35.34
Cu	15.05	9.59	3.42	21.28	3.18	22.37	7.21	17.75
Mg	217.56	7.79	53.69	7.73	134.92	17.53	135.39	11.02
Ni	37.86	24.88	13.30	72.89	4.03	99.74	18.40	65.84
Zn	85444.82	350.40	154979.36	372.90	7844.60	142.20	82756.26	288.50
Cd	5.54	1.13	6.48	1.19	0.58	0.86	4.20	1.06
Pb	11.31	1.27	5.34	1.02	13.75	0.85	10.13	1.05
Total	85738.55	400.45	155063.91	502.95	8007.05	358.22	82936.51	420.54
METALS (lb/hr)								
Cr	1.66E-04	1.55E-04	6.02E-05	7.68E-04	1.55E-04	2.23E-03	1.27E-04	1.05E-03
Cu	3.91E-04	2.75E-04	8.88E-05	6.30E-04	8.23E-05	6.67E-04	1.87E-04	5.24E-04
Mg	5.65E-03	2.23E-04	1.40E-03	2.29E-04	3.50E-03	5.23E-04	3.51E-03	3.25E-04
Ni	9.83E-04	7.13E-04	3.46E-04	2.16E-03	1.05E-04	2.97E-03	4.78E-04	1.95E-03
Zn	2.22E+00	1.00E-02	4.03E+00	1.10E-02	2.03E-01	4.24E-03	2.15E+00	8.44E-03
Cd	1.44E-04	3.23E-05	1.68E-04	3.53E-05	1.51E-05	2.57E-05	1.09E-04	3.11E-05
Pb	2.94E-04	3.64E-05	1.39E-04	3.01E-05	3.56E-04	2.54E-05	2.63E-04	3.06E-05
Total	2.23E+00	1.15E-02	4.03E+00	1.49E-02	2.08E-01	1.07E-02	2.15E+00	1.23E-02
METALS (lb/lb rubber)								
Cr	1.80E-08	1.67E-08	6.01E-09	7.66E-08	2.01E-08	2.88E-07	1.47E-08	1.27E-07
Cu	4.23E-08	2.97E-08	8.86E-09	6.29E-08	1.07E-08	8.64E-08	2.06E-08	5.97E-08
Mg	6.11E-07	2.42E-08	1.39E-07	2.28E-08	4.53E-07	6.77E-08	4.01E-07	3.82E-08
Ni	1.06E-07	7.71E-08	3.45E-08	2.15E-07	1.35E-08	3.85E-07	5.15E-08	2.26E-07
Zn	2.40E-04	1.09E-06	4.02E-04	1.10E-06	2.63E-05	5.49E-07	2.23E-04	9.12E-07
Cd	1.56E-08	3.49E-09	1.68E-08	3.52E-09	1.95E-09	3.33E-09	1.14E-08	3.45E-09
Pb	3.18E-08	3.94E-09	1.38E-08	3.01E-09	4.62E-08	3.30E-09	3.06E-08	3.41E-09
Total	2.41E-04	1.24E-06	4.02E-04	1.49E-06	2.69E-05	1.38E-06	2.23E-04	1.37E-06
Control Device Removal Efficiency (**)		99.5%		99.6%		94.9%		98.0%

* - Blank corrected

** - Removal Efficiency based on emission rate in pounds per hour

TRC

TABLE B.3-6

MIXER CONTROL DEVICE POM SUMMARY

	Run-1		Run-2		Run-3		AVERAGE	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
POM- (mg)	73.9	11.9	58.3	9.3	32.4	2.0	54.9	7.7
Sample Volume (dscf)	71.706	60.414	70.642	60.565	71.990	62.491	71.446	61.157
Flowrate (dscfm)	6,852	7,536	6,818	7,731	6,964	7,750	6,878	7,672
POM (mg/m³)	36.391	6.955	29.142	5.422	15.892	1.130	27.142	4.503
POM (lb/hr)	9.34E-01	1.96E-01	7.44E-01	1.57E-01	4.15E-01	3.28E-02	6.98E-01	1.29E-01
Run Time (min)	90	90	90	90	90	90	90	90
Rubber Mixed (lbs)	13,857	13,857	15,035	15,035	11,575	11,575	13,489	13,489
POM (lb/lb rubber)	1.01E-04	2.13E-05	7.43E-05	1.57E-05	5.37E-05	4.25E-06	7.64E-05	1.37E-05
Control Device Removal Efficiency (*)		79.0%		78.9%		92.1%		83.3%

* - Removal Efficiency based on emission rate in pounds per hour.

TRC

TABLE B.3-6

MIXER CONTROL DEVICE POM SUMMARY

	Run-1		Run-2		Run-3		AVERAGE	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
POM- (mg)	73.9	11.9	58.3	9.3	32.4	2.0	54.9	7.7
Sample Volume (dscf)	71.706	60.414	70.642	60.565	71.990	62.491	71.446	61.157
Flowrate (dscfm)	6,852	7,536	6,818	7,731	6,964	7,750	6,878	7,672
POM (mg/m³)	36.391	6.955	29.142	5.422	15.892	1.130	27.142	4.503
POM (lb/hr)	9.34E-01	1.96E-01	7.44E-01	1.57E-01	4.15E-01	3.28E-02	6.98E-01	1.29E-01
Run Time (min)	90	90	90	90	90	90	90	90
Rubber Mixed (lbs)	13,857	13,857	15,035	15,035	11,575	11,575	13,489	13,489
POM (lb/lb rubber)	1.01E-04	2.13E-05	7.43E-05	1.57E-05	5.37E-05	4.25E-06	7.64E-05	1.37E-05
Control Device Removal Efficiency (*)		79.0%		78.9%		92.1%		83.3%

* - Removal Efficiency based on emission rate in pounds per hour.

TRC

TABLE B.3-7

MIXER CONTROL DEVICE PARTICULATE MATTER SUMMARY

	Run-1		Run-2		Run-3		AVERAGE	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Particulate Matter (mg) (1)	2745.1	8.7	1372.5	6.8	1404.8	12.5	1840.8	9.3
Sample Volume (dscf)	71.575	58.902	72.339	60.556	72.232	61.954	72.049	60.471
PM (gr/dscf)	0.5918	0.0023	0.2928	0.0017	0.3001	0.0031	0.3949	0.0024
PM (mg/m³)	1354.26	5.22	669.96	3.97	686.74	7.12	903.65	5.44
Flowrate (dscfm)	6,930	7,646	6,936	7,903	6,918	7,959	6,928	7,836
PM (lb/hr)	35.152	0.149	17.405	0.117	17.794	0.212	23.450	0.160
Run Time (min)	90	90	90	90	90	90	90	90
Rubber Mixed (lbs)	13,857	13,857	15,035	15,035	11,575	11,575	13,489	13,489
PM (lb/lb rubber)	3.81E-03	1.62E-05	1.74E-03	1.17E-05	2.31E-03	2.75E-05	2.62E-03	1.85E-05
Control Device Removal Efficiency (%) (2)		99.6%		99.3%		98.8%		99.2%

(1) - Blank Corrected.

(2) - Removal Efficiency based on emission rate in pounds per hour.

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SECTION C

TIRE CURING

C.1 Tire Press Curing
C.2 Lab Scale Oven Curing - Tire Cuts

Section C.1

Tire Press Curing

TRC

Section C.1

Tire Press Curing

Table Number	Title	No. of Pages
C.1-1	Tire Press Summary Table	1
C.1-2	Tire Press Speciated Semivolatiles	6
C.1-3	Tire Press Speciated Volatiles	8
C.1-4	Tire Press POM Train Results	1
C.1-5	Tire Press Speciated Sulfur	2
C.1-6	Tire Press Speciated Amines	1

Table C.1-1. Tire Press - Summary Table

	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Press Size	195	195	195	195	205	205	205	205	195
Percent Rubber, % by wt	85.8	85	83	86	87.34	86.4	86.86	86	84.87
Percent Natural Rubber, % by wt	21.5	24	17.85	22.36	16.6	16.2	15.83	22.36	17.35
Percent Synthetic Rubber, % by wt	34.2	33.5	17.4	24.94	28.8	30.7	26.34	24.94	31.52
Percent Oil, % by wt	3.9	4.7	7.47	3.87	9.9	10.2	9.76	6.79	7.61
Run Time (min) *	106	122.8	199	98	109.3	99	94.4	105.2	95
Total Tire Weight Pre-Cure (all tires)	60.16	70.40	119.50	56.22	64.66	64.48	59.28	61.14	61.20
Total Tire Weight Post-Cure (all tires)	60.02	70.18	119.28	56.14	64.60	64.42	59.14	61.08	59.48
Number of Tires Sampled	3	4	6	3	3	3	3	3	3
Total VOC (ppm)	6.96	4.33	2.93	6.00	3.38	4.20	5.04	6.02	4.12
Total VOC (lbs/hr)	9.84E-03	7.30E-03	4.94E-03	8.35E-03	5.10E-03	6.07E-03	6.74E-03	7.76E-03	6.08E-03
Total VOC (lbs/lb tire)	2.89E-04	2.14E-04	1.39E-04	2.48E-04	1.43E-04	1.49E-04	1.80E-04	2.25E-04	1.59E-04
Total VOC (lbs/lb rubber)	3.37E-04	2.51E-04	1.68E-04	2.88E-04	1.64E-04	1.73E-04	2.07E-04	2.61E-04	1.87E-04
Total VOC Standard Deviation (lbs/lb rubber)	4.02E-05	2.85E-05	1.77E-05	4.06E-05	1.59E-05	1.86E-05	3.17E-05	2.77E-05	2.36E-05
Total Speciated Semi-Volatiles (lbs/hr)	1.53E-04	3.89E-04	1.66E-04	5.84E-04	1.01E-04	1.09E-03	4.77E-04	2.25E-04	5.48E-04
Total Speciated Semi-Volatiles (lbs/lb tire)	4.50E-06	1.13E-05	4.60E-06	1.70E-05	2.84E-06	2.80E-05	1.27E-05	6.46E-06	1.42E-05
Total Speciated Semi-Volatiles (lbs/lb rubber)	5.25E-06	1.33E-05	5.55E-06	1.97E-05	3.25E-06	3.24E-05	1.46E-05	7.51E-06	1.67E-05
Total Speciated Semi-Vols (lbs/lb rubber) with non-detects	< 5.50E-06	< 1.38E-05	< 5.64E-06	< 2.00E-05	< 3.58E-06	< 3.26E-05	< 1.49E-05	< 7.75E-06	< 1.70E-05
Total Speciated Volatiles (µg/m³)	5001	4356	2900	5303	5922	10661	8352	12578	6589
Total Speciated Volatiles (lbs/hr)	3.86E-03	3.90E-03	2.64E-03	4.03E-03	4.88E-03	8.43E-03	6.10E-03	8.86E-03	5.31E-03
Total Speciated Volatiles (lbs/lb tire)	1.13E-04	1.14E-04	8.86E-05	1.20E-04	1.37E-04	2.07E-04	1.63E-04	2.56E-04	1.39E-04
Total Speciated Volatiles (lbs/lb rubber)	1.32E-04	1.34E-04	1.07E-04	1.39E-04	1.57E-04	2.39E-04	1.88E-04	2.98E-04	1.63E-04
Total Speciated Vols (lbs/lb rubber) with non-detects	< 1.43E-04	< 1.49E-04	< 1.07E-04	< 1.50E-04	< 1.69E-04	< 2.48E-04	< 1.97E-04	< 3.08E-04	< 1.74E-04
Total POM (mg)	17.2	14.3	17	14.3	10.4	8.5	5.4	14.9	9.9
Total POM (lb/hr)	5.56E-03	3.98E-03	3.28E-03	4.93E-03	3.39E-03	2.88E-03	1.93E-03	4.81E-03	3.49E-03
Total POM (lbs/lb tire)	1.63E-04	1.16E-04	9.25E-05	1.46E-04	9.54E-05	7.08E-05	5.15E-05	1.39E-04	9.12E-05
Total POM (lbs/lb rubber)	1.90E-04	1.37E-04	1.11E-04	1.70E-04	1.09E-04	8.19E-05	5.93E-05	1.62E-04	1.07E-04
Total Sulfur(µg/m³)	906.2	224.5	75.2	26.5	225	18.2	225	267	58.6
Total Sulfur(lbs/hr)	6.99E-04	2.07E-04	6.93E-05	2.02E-05	1.85E-04	1.44E-05	1.64E-04	1.88E-04	4.72E-05
Total Sulfur(lbs/lb tire)	2.05E-05	6.04E-06	2.17E-06	5.97E-07	5.21E-06	3.53E-07	4.39E-06	5.44E-06	1.23E-06
Total Sulfur(lbs/lb rubber)	2.39E-05	7.10E-06	2.61E-06	6.95E-07	5.97E-07	4.09E-07	5.06E-06	6.32E-06	1.45E-06
Total Sulfur (lbs/lb rubber) with non-detects	< 2.98E-06	< 1.78E-05	< 1.41E-05	< 6.76E-06	< 1.21E-05	< 1.09E-05	< 1.03E-05	< 1.73E-05	< 7.19E-06
Total Amines (lb/hr)	1.04E-05	0.00E+00	0.00E+00	2.73E-07	1.47E-07	7.15E-08	0.00E+00	2.38E-07	1.29E-07
Total Amines (lbs/lb tire)	3.06E-07	0.00E+00	0.00E+00	7.91E-09	4.06E-09	1.82E-09	0.00E+00	6.80E-09	3.36E-09
Total Amines (lbs/lb rubber)	3.56E-07	0.00E+00	0.00E+00	9.21E-09	4.74E-09	2.12E-09	0.00E+00	7.93E-09	3.92E-09
Total Amines (lbs/lb rubber) with non-detects	< 6.50E-07	< 1.25E-07	< 2.18E-07	< 1.01E-07	< 1.63E-07	< 8.77E-08	< 1.44E-07	< 1.00E-07	< 7.89E-08

* MM5 Train

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Table C.1-2. Tire Press - Speciated Semivolatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
SEMI VOL (lbs/hr)										
Phenol	00108-95-2	2.27E-06	1.48E-05	6.62E-06	< 2.53E-07	6.70E-06	4.39E-06	1.93E-05	1.76E-05	1.42E-05
1,4-Dichlorobenzene	00106-46-7	1.45E-07	1.80E-07	1.68E-07	< 2.70E-07	< 1.29E-07	2.43E-07	9.24E-07	1.95E-08	2.83E-07
1,2-Dichlorobenzene	00095-50-1	< 2.88E-07	9.69E-08	< 1.48E-07	< 2.91E-07	< 2.94E-07	< 2.85E-07	< 3.14E-07	< 2.82E-07	< 4.04E-07
Benzyl alcohol	00100-51-6	3.65E-07	4.93E-07	3.66E-07	4.21E-08	< 4.62E-07	< 4.46E-07	< 4.92E-07	4.41E-07	< 7.23E-07
2-Methylphenol	00095-48-7	3.17E-07	4.07E-07	1.79E-07	< 3.51E-07	< 3.56E-07	< 3.43E-07	2.46E-07	5.84E-07	< 5.22E-07
3/4-Methylphenol	00108-39-4/00106-44-5	< 3.30E-07	1.16E-06	< 1.70E-07	< 3.37E-07	< 3.40E-07	< 1.99E-07	1.03E-07	4.48E-07	< 4.97E-07
Isophorone	00078-59-1	< 1.49E-07	< 1.27E-07	6.84E-07	2.70E-07	1.91E-06	1.47E-07	< 1.54E-06	< 2.24E-06	< 2.40E-07
Benzoic acid	00065-85-0	< 2.67E-06	< 5.23E-07	< 5.48E-07	< 6.38E-07	< 6.37E-07	< 6.00E-07	2.72E-06	< 6.13E-07	7.80E-06
1,2,4-Trichlorobenzene	00120-82-1	< 2.71E-07	2.27E-07	< 1.43E-07	< 2.84E-07	< 2.84E-07	< 2.67E-07	< 3.07E-07	< 2.72E-07	< 4.22E-07
Naphthalene	00091-20-3	2.03E-06	2.29E-06	4.48E-06	8.42E-06	7.16E-06	< 1.06E-05	4.14E-06	7.40E-06	4.72E-06
2-Methylnaphthalene	00091-57-6	6.49E-07	1.51E-06	5.09E-06	5.02E-06	3.47E-06	2.06E-06	1.31E-06	4.80E-06	2.44E-06
Dimethylphthalate	00131-11-3	1.65E-07	7.78E-07	6.65E-07	2.70E-07	1.64E-06	1.37E-07	7.21E-06	4.54E-07	4.54E-07
Acenaphthylene	00208-96-8	9.69E-07	4.10E-07	2.16E-06	1.37E-06	2.31E-06	< 2.23E-06	1.73E-06	6.20E-07	2.87E-06
Acenaphthene	00083-32-9	< 1.49E-07	2.57E-07	< 8.25E-08	< 1.68E-07	< 1.65E-07	1.65E-07	< 1.75E-07	< 1.62E-07	< 2.58E-07
Dibenzofuran	00132-64-9	3.39E-07	3.68E-07	2.85E-07	1.96E-07	1.22E-07	< 2.13E-07	2.07E-07	2.17E-07	2.40E-07
Diethylphthalate	00084-66-2	7.43E-07	8.64E-07	2.92E-07	2.42E-07	1.62E-07	2.88E-07	4.39E-07	5.00E-07	8.59E-08
4-Chlorophenyl-phenylether	70005-72-3	< 2.36E-07		< 1.29E-07	< 2.67E-07	< 2.61E-07	6.17E-08	< 2.75E-07	< 2.56E-07	< 3.58E-07
Fluorene	00086-73-7	7.98E-07	8.36E-07	< 7.22E-08	< 1.47E-07	< 1.45E-07	1.44E-07	< 1.50E-07	< 1.43E-07	5.01E-07
Phenanthrene	00085-01-8	3.52E-07	4.84E-07	1.48E-06	5.54E-07	6.96E-07	< 7.51E-07	1.55E-06	7.95E-07	1.46E-06
Di-n-butylphthalate	00084-74-2	6.04E-06	1.88E-05	1.87E-05	5.54E-06	9.74E-06	3.20E-05	5.71E-06	1.13E-05	2.86E-06
Fluoranthene	00206-44-0	1.81E-07	1.30E-07	3.26E-07	< 1.23E-07	3.14E-07	5.86E-07	7.71E-07	4.64E-07	3.58E-07
Pyrene	00129-00-0	1.01E-06	1.36E-06	2.67E-06	1.18E-06	1.71E-06	3.17E-06	2.84E-06	2.37E-06	1.76E-06

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Table C.1-2. Tire Press - Speciated Semivolatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
SEMI VOL (lbs/hr)										
Butylbenzylphthalate	00085-68-7	2.00E-07		1.79E-07	< 4.59E-07	< 3.63E-07	4.01E-07	1.07E-07	2.37E-07	< 4.44E-07
bis(2-Ethylhexyl)phthalate	00117-81-7	3.33E-06	4.68E-05	4.07E-06	7.12E-07	< 2.94E-06	< 2.04E-06	< 2.30E-06	6.29E-07	1.31E-06
Cumene	00098-82-8	< 1.78E-07	5.89E-06	< 9.11E-08	3.55E-06	2.63E-06	< 4.94E-06	1.45E-06	7.04E-06	1.50E-06
Aniline	00062-53-3	5.15E-05	7.49E-05	1.72E-05	1.70E-04	2.29E-05	1.47E-04	2.29E-05	1.01E-05	2.48E-04
Benzyl Chloride	00100-44-7	< 1.68E-07	< 5.87E-07	< 8.59E-08	< 1.68E-07	< 1.72E-07	1.49E-06	< 1.82E-07	< 1.62E-07	< 2.58E-07
Acetophenone	00098-86-2	2.19E-06	4.37E-06	2.68E-06	3.93E-06	2.18E-06	3.64E-06	3.96E-06	3.93E-06	4.01E-06
o-Toluidine	00095-53-4	5.33E-06	8.43E-06	4.62E-07	< 2.49E-07	3.37E-07	2.43E-07	4.25E-06	6.84E-07	< 3.22E-07
2-Chloroacetophenone	01341-24-8	< 1.68E-07	< 6.34E-07	< 8.76E-08	< 1.79E-07	1.19E-07	< 1.68E-07	< 1.93E-07	< 1.69E-07	< 2.36E-07
Biphenyl	00092-52-4	2.79E-06	2.04E-06	1.47E-06	1.20E-06	1.37E-06	< 8.06E-07	2.28E-06	1.44E-06	< 2.33E-07
2-Furaldehyde	00098-01-1	< 3.07E-07	< 1.98E-06	6.32E-07	< 5.75E-07	< 5.81E-07	5.59E-07	1.24E-06	5.03E-07	2.54E-06
Cyclohexylamin	00108-91-8	< 5.43E-07	< 1.91E-06	< 2.80E-07	2.31E-04	< 5.58E-07	< 7.29E-04	< 5.96E-07	< 5.32E-07	< 7.73E-07
Cyclohexanone	00108-94-1	2.98E-05	1.23E-04	2.09E-05	7.37E-05	5.66E-06	1.27E-04	1.58E-05	2.91E-05	9.31E-05
Camphene	00079-92-5	< 3.88E-07	< 1.36E-06	< 1.99E-07	< 3.93E-07	< 3.99E-07	3.84E-07	< 4.25E-07	< 3.80E-07	4.28E-05
Benzaldehyde	00100-52-7	2.18E-06	2.24E-06	2.94E-06	< 4.35E-07	< 4.39E-07	< 4.25E-07	5.17E-06	< 4.22E-07	< 7.26E-07
Benzonitrile	00100-47-0	8.17E-07	< 6.03E-07	< 8.76E-08	< 1.75E-07	< 1.75E-07	< 1.71E-07	< 1.89E-07	< 1.69E-07	< 2.72E-07
1,2,4-Trimethylbenzene	00095-63-6	2.85E-06	4.87E-06	2.41E-06	9.02E-06	1.25E-05	< 1.60E-05	1.88E-05	2.87E-05	5.80E-06
3-Methylstyrene	00100-80-1	1.81E-07	2.88E-07	1.58E-07	7.19E-07	7.95E-07	8.37E-07	7.71E-07	1.77E-06	3.36E-07
4-Methylstyrene	00622-97-9	< 9.69E-08	2.49E-08	2.06E-08	4.35E-07	3.20E-07	2.16E-07	< 2.75E-07	2.21E-07	2.33E-07
1-Dodecene	00112-41-4	< 1.54E-06	< 5.80E-06	< 8.09E-07	< 1.63E-06	< 1.62E-06	1.53E-06	< 1.75E-06	< 1.56E-06	< 2.25E-06
Phthalimide	00085-41-6	4.98E-06	1.72E-05	6.36E-05	6.38E-05	1.10E-05	< 4.36E-07	1.10E-04	6.77E-05	1.04E-04
Diphenylamine	00122-39-4	3.08E-05	5.27E-05	4.99E-06	2.89E-06	4.97E-06	3.91E-06	2.41E-04	2.51E-05	3.65E-06
Total Detected		1.53E-04	3.89E-04	1.66E-04	5.84E-04	1.01E-04	1.09E-03	4.77E-04	2.25E-04	5.48E-04
Total with non-detects		< 1.61E-04	< 4.02E-04	< 1.69E-04	< 5.91E-04	< 1.11E-04	< 1.10E-03	< 4.86E-04	< 2.33E-04	< 5.57E-04

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Table C.1-2. Tire Press - Speciated Semivolatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
SEMI VOL (lbs/lb tire)										
Phenol	00108-95-2	6.68E-08	4.31E-07	1.84E-07	< 7.34E-09	1.89E-07	1.12E-07	5.11E-07	5.04E-07	3.67E-07
1,4-Dichlorobenzene	00106-46-7	4.27E-09	5.23E-09	4.67E-09	< 7.85E-09	< 3.63E-09	6.23E-09	2.45E-08	5.58E-10	7.31E-09
1,2-Dichlorobenzene	00095-50-1	< 8.45E-09	2.82E-09	< 4.10E-09	< 8.46E-09	< 8.28E-09	< 7.28E-09	< 8.33E-09	< 8.09E-09	< 1.05E-08
Benzyl alcohol	00100-51-6	1.07E-08	1.43E-08	1.02E-08	1.22E-09	< 1.30E-08	< 1.14E-08	< 1.31E-08	1.27E-08	< 1.87E-08
2-Methylphenol	00095-48-7	9.30E-09	1.18E-08	4.96E-09	< 1.02E-08	< 1.00E-08	< 8.78E-09	6.53E-09	1.67E-08	< 1.35E-08
3/4-Methylphenol	00108-39-4/00106-44-5	< 9.68E-09	3.37E-08	< 4.72E-09	< 9.78E-09	< 9.58E-09	< 5.09E-09	2.75E-09	1.28E-08	< 1.29E-08
Isophorone	00078-59-1	< 4.36E-09	< 3.70E-09	1.90E-08	7.85E-09	5.39E-08	3.77E-09	< 4.10E-08	< 6.43E-08	< 6.20E-09
Benzoic acid	00065-85-0	< 7.83E-08	< 1.52E-08	< 1.52E-08	< 1.85E-08	< 1.79E-08	< 1.54E-08	7.22E-08	< 1.76E-08	2.02E-07
1,2,4-Trichlorobenzene	00120-82-1	< 7.97E-09	6.60E-09	< 3.96E-09	< 8.25E-09	< 8.00E-09	< 6.84E-09	< 8.14E-09	< 7.81E-09	< 1.09E-08
Naphthalene	00091-20-3	5.95E-08	6.65E-08	1.24E-07	2.45E-07	2.02E-07	< 2.70E-07	1.10E-07	2.12E-07	1.22E-07
2-Methylnaphthalene	00091-57-6	1.91E-08	4.39E-08	1.41E-07	1.46E-07	9.76E-08	5.27E-08	3.48E-08	1.38E-07	6.32E-08
Dimethylphthalate	00131-11-3	4.84E-09	2.26E-08	1.85E-08	7.85E-09	4.61E-08	3.51E-09	1.91E-07	1.30E-08	1.18E-08
Acenaphthylene	00208-96-8	2.85E-08	1.19E-08	6.00E-08	3.97E-08	6.50E-08	< 5.71E-08	4.59E-08	1.78E-08	7.42E-08
Acenaphthene	00083-32-9	< 4.36E-09	7.48E-09	< 2.29E-09	< 4.89E-09	< 4.65E-09	4.21E-09	< 4.64E-09	< 4.65E-09	< 6.67E-09
Dibenzofuran	00132-64-9	9.96E-09	1.07E-08	7.92E-09	5.71E-09	3.44E-09	< 5.44E-09	5.49E-09	6.23E-09	6.20E-09
Diethylphthalate	00084-66-2	2.18E-08	2.51E-08	8.11E-09	7.03E-09	4.56E-09	7.37E-09	1.16E-08	1.43E-08	2.22E-09
4-Chlorophenyl-phenylether	70005-72-3	< 6.93E-09		< 3.58E-09	< 7.74E-09	< 7.35E-09	1.58E-09	< 7.29E-09	< 7.35E-09	< 9.26E-09
Fluorene	00086-73-7	2.34E-08	2.43E-08	< 2.00E-09	< 4.28E-09	< 4.09E-09	3.69E-09	< 3.98E-09	< 4.09E-09	1.30E-08
Phenanthrene	00085-01-8	1.03E-08	1.41E-08	4.11E-08	1.61E-08	1.96E-08	< 1.92E-08	4.11E-08	2.28E-08	3.79E-08
Di-n-butylphthalate	00084-74-2	1.77E-07	5.46E-07	5.20E-07	1.61E-07	2.74E-07	8.20E-07	1.52E-07	3.24E-07	7.41E-08
Fluoranthene	00206-44-0	5.31E-09	3.78E-09	9.06E-09	< 3.57E-09	8.83E-09	1.50E-08	2.05E-08	1.33E-08	9.26E-09
Pyrene	00129-00-0	2.97E-08	3.94E-08	7.42E-08	3.41E-08	4.81E-08	8.12E-08	7.54E-08	6.81E-08	4.56E-08

TRC

Table C.1-2. Tire Press - Speciated Semivolatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
SEMI VOL (lb/lb tire)										
Butylbenzylphthalate	00085-68-7	5.88E-09		4.96E-09	< 1.33E-08	< 1.02E-08	1.03E-08	2.84E-09	6.79E-09	< 1.15E-08
bis(2-Ethylhexyl)phthalate	00117-81-7	9.77E-08	1.36E-06	1.13E-07	2.07E-08	< 8.28E-08	< 5.23E-08	< 6.12E-08	1.80E-08	3.38E-08
Cumene	00098-82-8	< 5.22E-09	1.71E-07	< 2.53E-09	1.03E-07	7.42E-08	< 1.26E-07	3.84E-08	2.02E-07	3.87E-08
Aniline	00062-53-3	1.51E-06	2.18E-06	4.77E-07	4.93E-06	6.46E-07	3.76E-06	6.07E-07	2.89E-07	6.43E-06
Benzyl Chloride	00100-44-7	< 4.93E-09	< 1.71E-08	< 2.38E-09	< 4.89E-09	< 4.84E-09	3.82E-08	< 4.83E-09	< 4.65E-09	< 6.67E-09
Acetophenone	00098-86-2	6.43E-08	1.27E-07	7.44E-08	1.14E-07	6.16E-08	9.32E-08	1.05E-07	1.13E-07	1.04E-07
o-Toluidine	00095-53-4	1.57E-07	2.45E-07	1.28E-08	< 7.23E-09	9.48E-09	6.23E-09	1.13E-07	1.96E-08	< 8.33E-09
2-Chloroacetophenone	01341-24-8	< 4.93E-09	< 1.84E-08	< 2.43E-09	< 5.20E-09	3.35E-09	< 4.30E-09	< 5.11E-09	< 4.84E-09	< 6.11E-09
Biphenyl	00092-52-4	8.18E-08	5.93E-08	4.09E-08	3.49E-08	3.87E-08	< 2.06E-08	6.06E-08	4.14E-08	< 6.02E-09
2-Furaldehyde	00098-01-1	< 9.01E-09	< 5.77E-08	1.76E-08	< 1.67E-08	< 1.64E-08	1.43E-08	3.30E-08	1.44E-08	6.58E-08
Cyclohexylamin	00108-91-8	< 1.59E-08	< 5.55E-08	< 7.77E-09	6.71E-06	< 1.57E-08	< 1.87E-05	< 1.58E-08	< 1.53E-08	< 2.00E-08
Cyclohexanone	00108-94-1	8.74E-07	3.59E-06	5.80E-07	2.14E-06	1.59E-07	3.26E-06	4.18E-07	8.35E-07	2.41E-06
Camphene	00079-92-5	< 1.14E-08	< 3.96E-08	< 5.53E-09	< 1.14E-08	< 1.13E-08	9.83E-09	< 1.13E-08	< 1.09E-08	1.11E-06
Benzaldehyde	00100-52-7	6.40E-08	6.51E-08	8.16E-08	< 1.26E-08	< 1.24E-08	< 1.09E-08	1.37E-07	< 1.21E-08	< 1.88E-08
Benzonitrile	00100-47-0	2.40E-08	< 1.75E-08	< 2.43E-09	< 5.10E-09	< 4.93E-09	< 4.39E-09	< 5.02E-09	< 4.84E-09	< 7.04E-09
1,2,4-Trimethylbenzene	00095-63-6	8.37E-08	1.42E-07	6.68E-08	2.62E-07	3.52E-07	< 4.09E-07	4.99E-07	8.22E-07	1.50E-07
3-Methylstyrene	00100-80-1	5.31E-09	8.37E-09	4.39E-09	2.09E-08	2.24E-08	2.14E-08	2.05E-08	5.09E-08	8.70E-09
4-Methylstyrene	00622-97-9	< 2.85E-09	7.24E-10	5.72E-10	1.26E-08	9.02E-09	5.53E-09	< 7.29E-09	6.33E-09	6.02E-09
1-Dodecene	00112-41-4	< 4.54E-08	< 1.69E-07	< 2.25E-08	< 4.73E-08	< 4.56E-08	3.91E-08	< 4.64E-08	< 4.47E-08	< 5.83E-08
Phthalimide	00085-41-6	1.46E-07	5.01E-07	1.76E-06	1.85E-06	3.11E-07	< 1.11E-08	2.92E-06	1.94E-06	2.69E-06
Diphenylamine	00122-39-4	9.04E-07	1.53E-06	1.39E-07	8.39E-08	1.40E-07	1.00E-07	6.40E-06	7.21E-07	9.44E-08
Total Detected		4.50E-06	1.13E-05	4.60E-06	1.70E-05	2.84E-06	2.80E-05	1.27E-05	6.46E-06	1.42E-05
Total with non-detects		< 4.72E-06	< 1.17E-05	< 4.69E-06	< 1.72E-05	< 3.13E-06	< 2.82E-05	< 1.29E-05	< 6.67E-06	< 1.44E-05

TRC

Table C.1-2. Tire Press - Speciated Semivolatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
SEMI VOL (lbs/lb rubber)										
Phenol	00108-95-2	7.79E-08	5.07E-07	2.21E-07	< 8.53E-09	2.16E-07	1.30E-07	5.89E-07	5.86E-07	4.32E-07
1,4-Dichlorobenzene	00106-46-7	4.98E-09	6.15E-09	5.63E-09	< 9.12E-09	< 4.15E-09	7.21E-09	2.82E-08	6.49E-10	8.62E-09
1,2-Dichlorobenzene	00095-50-1	< 9.84E-09	3.31E-09	< 4.94E-09	< 9.83E-09	< 9.48E-09	< 8.43E-09	< 9.59E-09	< 9.41E-09	< 1.23E-08
Benzyl alcohol	00100-51-6	1.25E-08	1.69E-08	1.22E-08	1.42E-09	< 1.49E-08	< 1.32E-08	< 1.50E-08	1.47E-08	< 2.20E-08
2-Methylphenol	00095-48-7	1.08E-08	1.39E-08	5.98E-09	< 1.18E-08	< 1.15E-08	< 1.02E-08	7.52E-09	1.95E-08	< 1.59E-08
3/4-Methylphenol	00108-39-4/00106-44-5	< 1.13E-08	3.97E-08	< 5.69E-09	< 1.14E-08	< 1.10E-08	< 5.89E-09	3.16E-09	1.49E-08	< 1.52E-08
Isophorone	00078-59-1	< 5.09E-09	< 4.36E-09	2.29E-08	9.12E-09	6.17E-08	4.37E-09	< 4.72E-08	< 7.47E-08	< 7.31E-09
Benzoic acid	00065-85-0	< 9.12E-08	< 1.79E-08	< 1.83E-08	< 2.16E-08	< 2.05E-08	< 1.78E-08	8.31E-08	< 2.04E-08	2.38E-07
1,2,4-Trichlorobenzene	00120-82-1	< 9.29E-09	7.76E-09	< 4.77E-09	< 9.60E-09	< 9.16E-09	< 7.92E-09	< 9.38E-09	< 9.09E-09	< 1.29E-08
Naphthalene	00091-20-3	6.93E-08	7.82E-08	1.50E-07	2.84E-07	2.31E-07	< 3.13E-07	1.26E-07	2.47E-07	1.44E-07
2-Methylnaphthalene	00091-57-6	2.22E-08	5.16E-08	1.70E-07	1.69E-07	1.12E-07	6.10E-08	4.01E-08	1.60E-07	7.45E-08
Dimethylphthalate	00131-11-3	5.64E-09	2.66E-08	2.22E-08	9.12E-09	5.28E-08	4.06E-09	2.20E-07	1.51E-08	1.39E-08
Acenaphthylene	00208-96-8	3.32E-08	1.40E-08	7.23E-08	4.62E-08	7.44E-08	< 6.61E-08	5.29E-08	2.07E-08	8.74E-08
Acenaphthene	00083-32-9	< 5.09E-09	8.80E-09	< 2.76E-09	< 5.69E-09	< 5.32E-09	4.88E-09	< 5.34E-09	< 5.41E-09	< 7.85E-09
Dibenzofuran	00132-64-9	1.16E-08	1.26E-08	9.54E-09	6.64E-09	3.94E-09	< 6.30E-09	6.32E-09	7.25E-09	7.31E-09
Diethylphthalate	00084-66-2	2.54E-08	2.95E-08	9.77E-09	8.18E-09	5.22E-09	8.53E-09	1.34E-08	1.67E-08	2.62E-09
4-Chlorophenyl-phenylether	70005-72-3	< 8.07E-09		< 4.31E-09	< 9.01E-09	< 8.41E-09	1.83E-09	< 8.39E-09	< 8.55E-09	< 1.09E-08
Fluorene	00086-73-7	2.73E-08	2.86E-08	< 2.41E-09	< 4.98E-09	< 4.68E-09	4.27E-09	< 4.58E-09	< 4.76E-09	1.53E-08
Phenanthrene	00085-01-8	1.21E-08	1.66E-08	4.95E-08	1.87E-08	2.25E-08	< 2.22E-08	4.73E-08	2.65E-08	4.46E-08
Di-n-butylphthalate	00084-74-2	2.07E-07	6.42E-07	6.26E-07	1.87E-07	3.14E-07	9.49E-07	1.74E-07	3.76E-07	8.73E-08
Fluoranthene	00206-44-0	6.19E-09	4.45E-09	1.09E-08	< 4.15E-09	1.01E-08	1.74E-08	2.35E-08	1.55E-08	1.09E-08
Pyrene	00129-00-0	3.46E-08	4.64E-08	8.94E-08	3.97E-08	5.50E-08	9.39E-08	8.68E-08	7.92E-08	5.38E-08

TRC

Table C.1-2. Tire Press - Speciated Semivolatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
SEMI VOL (lbs/lb rubber)										
Butylbenzylphthalate	00085-68-7	6.86E-09		5.98E-09	< 1.55E-08	< 1.17E-08	1.19E-08	3.27E-09	7.90E-09	< 1.35E-08
bis(2-Ethylhexyl)phthalate	00117-81-7	1.14E-07	1.60E-06	1.36E-07	2.41E-08	< 9.48E-08	< 6.05E-08	< 7.04E-08	2.10E-08	3.98E-08
Cumene	00098-82-8	< 6.08E-09	2.02E-07	< 3.05E-09	1.20E-07	8.50E-08	< 1.46E-07	4.42E-08	2.35E-07	4.56E-08
Aniline	00062-53-3	1.76E-06	2.56E-06	5.74E-07	5.73E-06	7.40E-07	4.36E-06	6.99E-07	3.36E-07	7.57E-06
Benzyl Chloride	00100-44-7	< 5.75E-09	< 2.01E-08	< 2.87E-09	< 5.69E-09	< 5.54E-09	4.42E-08	< 5.56E-09	< 5.41E-09	< 7.85E-09
Acetophenone	00098-86-2	7.50E-08	1.50E-07	8.96E-08	1.33E-07	7.05E-08	1.08E-07	1.21E-07	1.31E-07	1.22E-07
o-Toluidine	00095-53-4	1.82E-07	2.88E-07	1.55E-08	< 8.41E-09	1.09E-08	7.21E-09	1.30E-07	2.28E-08	< 9.82E-09
2-Chloroacetophenone	01341-24-8	< 5.75E-09	< 2.17E-08	< 2.93E-09	< 6.04E-09	3.83E-09	< 4.98E-09	< 5.89E-09	< 5.62E-09	< 7.20E-09
Biphenyl	00092-52-4	9.53E-08	6.98E-08	4.93E-08	4.05E-08	4.43E-08	< 2.39E-08	6.98E-08	4.81E-08	< 7.09E-09
2-Furaldehyde	00098-01-1	< 1.05E-08	< 6.79E-08	2.11E-08	< 1.94E-08	< 1.87E-08	1.66E-08	3.79E-08	1.68E-08	7.76E-08
Cyclohexylamin	00108-91-8	< 1.86E-08	< 6.53E-08	< 9.37E-09	7.81E-06	< 1.80E-08	< 2.16E-05	< 1.82E-08	< 1.77E-08	< 2.36E-08
Cyclohexanone	00108-94-1	1.02E-06	4.22E-06	6.99E-07	2.49E-06	1.82E-07	3.77E-06	4.82E-07	9.71E-07	2.84E-06
Camphene	00079-92-5	< 1.33E-08	< 4.66E-08	< 6.67E-09	< 1.33E-08	< 1.29E-08	1.14E-08	< 1.30E-08	< 1.27E-08	1.31E-06
Benzaldehyde	00100-52-7	7.45E-08	7.66E-08	9.83E-08	< 1.47E-08	< 1.42E-08	< 1.26E-08	1.58E-07	< 1.41E-08	< 2.21E-08
Benzonitrile	00100-47-0	2.80E-08	< 2.06E-08	< 2.93E-09	< 5.92E-09	< 5.64E-09	< 5.08E-09	< 5.78E-09	< 5.62E-09	< 8.29E-09
1,2,4-Trimethylbenzene	00095-63-6	9.75E-08	1.67E-07	8.05E-08	3.05E-07	4.03E-07	< 4.74E-07	5.75E-07	9.56E-07	1.77E-07
3-Methylstyrene	00100-80-1	6.19E-09	9.85E-09	5.29E-09	2.43E-08	2.57E-08	2.48E-08	2.35E-08	5.92E-08	1.03E-08
4-Methylstyrene	00622-97-9	< 3.32E-09	8.52E-10	6.90E-10	1.47E-08	1.03E-08	6.40E-09	< 8.39E-09	7.36E-09	7.09E-09
1-Dodecene	00112-41-4	< 5.29E-08	< 1.98E-07	< 2.71E-08	< 5.50E-08	< 5.22E-08	4.52E-08	< 5.34E-08	< 5.19E-08	< 6.87E-08
Phthalimide	00085-41-6	1.70E-07	5.89E-07	2.13E-06	2.16E-06	3.56E-07	< 1.29E-08	3.36E-06	2.26E-06	3.17E-06
Diphenylamine	00122-39-4	1.05E-06	1.80E-06	1.67E-07	9.75E-08	1.60E-07	1.16E-07	7.37E-06	8.38E-07	1.11E-07
Total Detected		5.25E-06	1.33E-05	5.55E-06	1.97E-05	3.25E-06	3.24E-05	1.46E-05	7.51E-06	1.67E-05
Total with non-detects		< 5.50E-06	< 1.38E-05	< 5.64E-06	< 2.00E-05	< 3.58E-06	< 3.26E-05	< 1.49E-05	< 7.75E-06	< 1.70E-05

TRC

Table C.1-3. Tire Press - Speciated Volatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Volatiles (µg/m³)										
Dichlorodifluoromethane	75-71-8	< 8	< 8	< 6.55	< 8	5.3	11	8	9.6	< 8
Chloromethane	74-87-3	3.7	< 8	2.75	3.4	< 8	2.1	4.6	3.9	2.7
Vinyl Chloride	75-1-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1,3-Butadiene	106-99-0	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Chloroethane	75-00-3	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Bromomethane	74-83-9	2nd 4.3	< 8	< 8	2.7	< 8	< 8	< 8	< 8	< 8
Acetonitrile	1722-09-4	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Acrolein	107-02-8	< 16	< 14	14.15	< 16	< 16	< 16	< 16	< 16	< 16
Acetone	67-64-1	2nd 190	avg of 2 205	125	340	330	500	730	1200	310
Propylene Oxide	75-56-9	< 16	< 16	< 63	< 16	< 16	< 16	< 16	< 16	< 16
Trichlorofluoromethane	75-69-4	< 8	< 8	< 8	< 8	< 8	8	< 8	< 8	< 8
Acrylonitrile	107-13-1	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
1,1-Dichloroethene	75-35-4	< 8	< 8	< 8	< 8	< 8	25	< 8	< 8	< 8
Methylene Chloride	79-09-2	37	avg. of 2 29.5	71.5	290	180	240	45	120	150
Allyl Chloride	107-05-1	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Carbon Disulfide	75-15-0	2nd 970	Avg. of 2 285	101	28	290	21	270	290	84
Trichlortrifluoroethane	76-13-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
trans-1,2-Dichloroethene	156-60-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
cis-1,2-Dichloroehtene	156-59-2	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1,1-Dichloroethane	75-34-3	< 8	< 8	< 8	< 8	< 8	3.4	< 8	< 8	< 8
t-Butyl Methyl Ether	1634-04-4	< 16	< 16	< 16	< 16	< 16	13	< 16	< 16	< 16
Vinyle Acetate	108-05-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
2-Butanone	78-93-3	2nd 15	14	15	34	39	66	27	70	31
n-Hexane	110-54-3	2nd 18	34	9.05	33	120	130	300	340	140
Chloroform	67-66-3	< 8	< 8	< 8	< 8	< 8	< 8	2.9	< 8	< 8
1,2-dichloroethane	107-06-3	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1,1,1-Trichloroethane	71-55-6	3	< 8	5.45	< 8	16	1800	5.9	7	5.3
Benzene	71-43-2	7.5	< avg. of 2 7.4	8.55	7.9	16	15	24	20	20
Carbon Tetrachloride	56-23-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1,2-Dichloropropane	78-87-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Bromodichloromethane	75-27-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1,4-Dioxane	123-91-1	< 32	< 32	< 32	< 32	< 32	< 32	< 32	< 32	< 32
Trichloroethene	79-01-6	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	4.5
Epichlorohydrin	106-89-8	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
cis-1,3-Dichloropropene	10061-01-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
4-Methyl-2-Pentanone	108-10-1	2nd 530	620	350	480	370	410	570	690	360
trans-1,2-Dichloropropene	10061-02-6	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1,1,2-Trichloroethane	79-00-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Toluene	108-88-3	250	235	99	480	490	520	480	1100	430
Chlorodibromoethene	124-48-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
2-Hexanone	591-78-6	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8

TRC

Table C.1-3. Tire Press - Speciated Volatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Volatiles (µg/m³)										
1,2-Dibromoethane	106-93-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Tetrachloroethene	127-18-4	2.9	< 8	< 8	< 8	3	9.1	4	5	< 8
Chlorobenzene	108-90-7	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Ethylbenzene	100-41-4	200	97.5	34	460	480	440	300	900	290
Bromoform	75-25-2	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Styrene	100-42-5	15	9.8	10.85	11	36	170	35	13	33
m & p-Xylenes	1330-20-7	650	350	185	1100	1100	1000	890	2200	880
o-Xylene	95-47-6	160	71	38.5	310	360	330	240	480	240
1,1,2,2-Tetrachloroethane	79-34-5	< 8	< 8	< 8	8	< 8	< 8	< 8	< 8	< 8
Cumene	98-82-8	4.6	< 10.1	< 16	13	17	18	13	29	8.4
Benzyl Chloride	100-44-7	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
1,3-Dichlorobenzene	541-34-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1,4-Dichlorobenzene	106-73-1	< 8	< 8	< 8	< 8	< 8	29	2.5	< 8	< 8
1,2-Dichlorobenzene	95-50-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1,2-Dibromo-3-Chloropropan	96-12-8	< 16	< 16	< 16	16	< 16	< 16	< 16	< 16	< 16
Hexachlorobutadiene	87-68-3	< 16	< 16	< 16	16	< 16	< 16	< 16	< 16	< 16
* Propane	74-98-6			30						
* Cyclobutane		80	75	140	70	70				
* Butane			50							
* Ethanol		1000	1000				600			
* Isopropyl Alcohol		60	60							
* Isopentane							200			
* Isobutanol							400			
* 1-Butanol	71-36-3	60	60	60						
* Methylpentane								200	200	
* Methylhexane		50	70	50	100	200	400	400	500	200
* Methylhexane						200	500	400	500	300
* Heptane		100	150	65	300	400	900	900	900	600
* Methylcyclohexane		100	100	50	200	300	700	700	800	500
* Methylheptane					200	200	400	400	400	300
* Dimethylcyclohexane					100			300	400	200
* Octane				60	300	400	500	700	700	500
* Methylhexanone				800						700
* Cyclohexanone	108-94-1	? 100	250		200		300			
* a-Pinene	7785-70-8	200	200	200	100	100				
* Decane						100		200	400	200
* Undecane		90	100	100	100	100		200	300	100
* Dodecane		200	200	200						
* C13-C14 Branched Alkane			90	75						
Total Detected		5001.00	4355.80	2899.80	5303.00	5922.30	10660.60	8351.90	12577.50	6588.90
Total with non-detects		< 5433.00	< 4835.30	< 3393.35	< 5711.00	< 6362.30	< 11044.60	< 8767.90	< 13009.50	< 7028.90

TRC

Table C.1-3. Tire Press - Speciated Volatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Volatiles (lbs/hr)										
Dichlorodifluoromethane	75-71-8	< 6.17E-06	< 7.37E-06	< 6.04E-06	< 6.08E-06	4.37E-06	8.69E-06	5.84E-06	6.76E-06	< 6.44E-06
Chloromethane	74-87-3	2.86E-06	< 7.37E-06	2.53E-06	2.59E-06	< 6.59E-06	1.66E-06	3.36E-06	2.75E-06	2.17E-06
Vinyl Chloride	75-1-4	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
1,3-Butadiene	106-99-0	< 1.23E-05	< 1.47E-05	< 1.47E-05	< 1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
Chloroethane	75-00-3	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Bromomethane	74-83-9	3.32E-06	< 7.37E-06	< 7.37E-06	2.05E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Acetonitrile	1722-09-4	< 1.23E-05	< 1.47E-05	< 1.47E-05	< 1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
Acrolein	107-02-8	< 1.23E-05	< 1.29E-05	1.30E-05	< 1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
Acetone	67-64-1	1.47E-04	1.89E-04	1.15E-04	2.59E-04	2.72E-04	3.95E-04	5.33E-04	8.45E-04	2.50E-04
Propylene Oxide	75-56-9	< 1.23E-05	< 1.47E-05	< 5.81E-05	< 1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
Trichlorofluoromethane	75-69-4	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Acrylonitrile	107-13-1	< 1.23E-05	< 1.47E-05	< 1.47E-05	< 1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
1,1-Dichloroethene	75-35-4	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	1.98E-05	< 5.84E-06	< 5.63E-06	< 6.44E-06
Methylene Chloride	79-09-2	2.86E-05	2.72E-05	6.59E-05	2.21E-04	1.48E-04	1.90E-04	3.29E-05	8.45E-05	1.21E-04
Allyl Chloride	107-05-1	< 1.23E-05	< 1.47E-05	< 1.47E-05	< 1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
Carbon Disulfide	75-15-0	7.49E-04	2.63E-04	9.31E-05	2.13E-05	2.39E-04	1.66E-05	1.97E-04	2.04E-04	6.77E-05
Trichlortrifluoroethane	76-13-1	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
trans-1,2-Dichloroethene	156-60-5	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
cis-1,2-Dichloroehtene	156-59-2	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
1,1-Dichloroethane	75-34-3	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	2.69E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
t-Butyl Methyl Ether	1634-04-4	< 1.23E-05	< 1.47E-05	< 1.47E-05	< 1.22E-05	< 1.32E-05	1.03E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
Vinyle Acetate	108-05-4	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
2-Butanone	78-93-3	1.16E-05	1.29E-05	1.38E-05	2.59E-05	3.21E-05	5.22E-05	1.97E-05	4.93E-05	2.50E-05
n-Hexane	110-54-3	1.39E-05	3.13E-05	8.34E-06	2.51E-05	9.89E-05	1.03E-04	2.19E-04	2.39E-04	1.13E-04
Chloroform	67-66-3	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	2.12E-06	< 5.63E-06	< 6.44E-06
1,2-dichloroethane	107-06-3	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
1,1,1-Trichloroethane	71-55-6	2.32E-06	< 7.37E-06	< 5.02E-06	< 6.08E-06	1.32E-05	1.42E-03	4.31E-06	4.93E-06	4.27E-06
Benzene	71-43-2	5.79E-06	< 6.82E-06	7.88E-06	6.01E-06	1.32E-05	1.19E-05	1.75E-05	1.41E-05	1.61E-05
Carbon Tetrachloride	56-23-5	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
1,2-Dichloropropane	78-87-5	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Bromodichloromethane	75-27-4	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
1,4-Dioxane	123-91-1	< 2.47E-05	< 2.95E-05	< 2.95E-05	< 2.43E-05	< 2.64E-05	< 2.53E-05	< 2.34E-05	< 2.25E-05	< 2.58E-05
Trichloroethene	79-01-6	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	3.62E-06
Epichlorohydrin	106-89-8	< 1.23E-05	< 1.47E-05	< 1.47E-05	< 1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
cis-1,3-Dichloropropene	10061-01-5	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
4-Methyl-2-Pentanone	108-10-1	4.09E-04	5.71E-04	3.23E-04	3.65E-04	3.05E-04	3.24E-04	4.16E-04	4.86E-04	2.90E-04
trans-1,2-Dichloropropene	10061-02-6	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
1,1,2-Trichloroethane	79-00-5	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Toluene	108-88-3	1.93E-04	2.17E-04	9.12E-05	3.65E-04	4.04E-04	4.11E-04	3.51E-04	7.75E-04	3.46E-04
Chlorodibromoethene	124-48-1	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
2-Hexanone	591-78-6	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06

TRC

Table C.1-3. Tire Press - Speciated Volatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Volatiles (lbs/hr)										
1,2-Dibromoethane	106-93-4	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Tetrachloroethene	127-18-4	2.24E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	2.47E-06	7.19E-06	2.92E-06	3.52E-06	< 6.44E-06
Chlorobenzene	108-90-7	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Ethylbenzene	100-41-4	1.54E-04	8.98E-05	3.13E-05	3.50E-04	3.96E-04	3.48E-04	2.19E-04	6.34E-04	2.34E-04
Bromoform	75-25-2	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Styrene	100-42-5	1.16E-05	9.03E-06	1.00E-05	8.36E-06	2.97E-05	1.34E-04	2.56E-05	9.16E-06	2.66E-05
m & p-Xylenes	1330-20-7	5.02E-04	3.23E-04	1.70E-04	8.36E-04	9.07E-04	7.90E-04	6.50E-04	1.55E-03	7.09E-04
o-Xylene	95-47-6	1.23E-04	6.54E-05	3.55E-05	2.36E-04	2.97E-04	2.61E-04	1.75E-04	3.38E-04	1.93E-04
1,1,2,2-Tetrachloroethane	79-34-5	< 6.17E-06	< 7.37E-06	< 7.37E-06	6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
Cumene	98-82-8	3.55E-06	< 9.31E-06	< 1.47E-05	9.89E-06	1.40E-05	1.42E-05	9.50E-06	2.04E-05	6.77E-06
Benzyl Chloride	100-44-7	< 1.23E-05	< 1.47E-05	< 1.47E-05	< 1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
1,3-Dichlorobenzene	541-34-5	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
1,4-Dichlorobenzene	106-73-1	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	2.29E-05	1.83E-06	< 5.63E-06	< 6.44E-06
1,2-Dichlorobenzene	95-50-1	< 6.17E-06	< 7.37E-06	< 7.37E-06	< 6.08E-06	< 6.59E-06	< 6.32E-06	< 5.84E-06	< 5.63E-06	< 6.44E-06
1,2-Dibromo-3-Chloropropan	96-12-8	< 1.23E-05	< 1.47E-05	< 1.47E-05	1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
Hexachlorobutadiene	87-68-3	< 1.23E-05	< 1.47E-05	< 1.47E-05	1.22E-05	< 1.32E-05	< 1.26E-05	< 1.17E-05	< 1.13E-05	< 1.29E-05
* Propane	74-98-6			2.76E-05						
* Cyclobutane		6.17E-05	6.91E-05	1.29E-04	5.32E-05	5.77E-05				
* Butane			4.61E-05							
* Ethanol		7.72E-04	9.22E-04				4.74E-04			
* Isopropyl Alcohol		4.63E-05								
* Isopentane							1.58E-04			
* Isobutanol							3.16E-04			
* 1-Butanol	71-36-3	4.63E-05		5.53E-05						
* Methylpentane								1.46E-04	1.41E-04	
* Methylhexane		3.86E-05	6.45E-05	2.30E-05	7.60E-05	1.65E-04	3.16E-04	2.92E-04	3.52E-04	1.61E-04
* Methylhexane						1.65E-04	3.95E-04	2.92E-04	3.52E-04	2.42E-04
* Heptane		7.72E-05	1.38E-04	5.99E-05	2.28E-04	3.30E-04	7.11E-04	6.57E-04	6.34E-04	4.83E-04
* Methylcyclohexane		7.72E-05	9.22E-05	4.61E-05	1.52E-04	2.47E-04	5.53E-04	5.11E-04	5.63E-04	4.03E-04
* Methylheptane					1.52E-04	1.65E-04	3.16E-04	2.92E-04	2.82E-04	2.42E-04
* Dimethylcyclohexane					7.60E-05			2.19E-04	2.82E-04	1.61E-04
* Octane				5.53E-05	2.28E-04	3.30E-04	3.95E-04	5.11E-04	4.93E-04	4.03E-04
* Methylhexanone				7.37E-04						5.64E-04
* Cyclohexanone	108-94-1		2.30E-04		1.52E-04		2.37E-04			
* a-Pinene	7785-70-8	1.54E-04	1.84E-04	1.84E-04	7.60E-05	8.24E-05				
* Decane						8.24E-05		1.46E-04	2.82E-04	1.61E-04
* Undecane		6.95E-05	9.22E-05	9.22E-05	7.60E-05	8.24E-05		1.46E-04	2.11E-04	8.05E-05
* Dodecane		1.54E-04	1.84E-04	1.84E-04						
* C13-C14 Branched Alkane			8.29E-05	6.91E-05						
Total Detected		3.86E-03	3.90E-03	2.64E-03	4.03E-03	4.88E-03	8.43E-03	6.10E-03	8.86E-03	5.31E-03
Total with non-detects		< 4.19E-03	< 4.35E-03	< 3.10E-03	< 4.34E-03	< 5.24E-03	< 8.73E-03	< 6.40E-03	< 9.16E-03	< 5.66E-03

TRC

Table C.1-3. Tire Press - Speciated Volatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Volatiles (lbs/lb tire)										
Dichlorodifluoromethane	75-71-8	< 1.81E-07	< 2.16E-07	1.77E-07	< 1.80E-07	1.23E-07	2.13E-07	1.56E-07	1.96E-07	< 1.68E-07
Chloromethane	74-87-3	8.38E-08	< 2.16E-07	6.92E-08	7.66E-08	< 1.85E-07	4.08E-08	8.98E-08	7.94E-08	5.69E-08
Vinyl Chloride	75-1-4	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
1,3-Butadiene	106-99-0	< 3.63E-07	< 4.32E-07	4.15E-07	< 3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
Chloroethane	75-00-3	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Bromomethane	74-83-9	9.74E-08	< 2.16E-07	2.07E-07	6.09E-08	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Acetonitrile	1722-09-4	< 3.63E-07	< 4.32E-07	4.15E-07	< 3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
Acrolein	107-02-8	< 3.63E-07	< 3.73E-07	4.04E-07	< 3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
Acetone	67-64-1	4.31E-06	5.50E-06	3.17E-06	7.66E-06	7.65E-06	9.70E-06	1.43E-05	2.44E-05	6.53E-06
Propylene Oxide	75-56-9	< 3.63E-07	< 4.32E-07	1.85E-06	< 3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
Trichlorofluoromethane	75-69-4	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Acrylonitrile	107-13-1	< 3.63E-07	< 4.32E-07	4.15E-07	< 3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
1,1-Dichloroethene	75-35-4	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	4.85E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Methylene Chloride	79-09-2	8.38E-07	7.95E-07	1.67E-06	6.54E-06	4.17E-06	4.66E-06	8.79E-07	2.44E-06	3.16E-06
Allyl Chloride	107-05-1	< 3.63E-07	< 4.32E-07	4.15E-07	< 3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
Carbon Disulfide	75-15-0	2.20E-05	7.66E-06	2.90E-06	6.31E-07	6.72E-06	4.08E-07	5.27E-06	5.91E-06	1.77E-06
Trichlortrifluoroethane	76-13-1	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
trans-1,2-Dichloroethene	156-60-5	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
cis-1,2-Dichloroehtene	156-59-2	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
1,1-Dichloroethane	75-34-3	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	6.60E-08	< 1.56E-07	< 1.63E-07	< 1.68E-07
t-Butyl Methyl Ether	1634-04-4	< 3.63E-07	< 4.32E-07	4.15E-07	< 3.61E-07	< 3.71E-07	2.52E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
Vinyle Acetate	108-05-4	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
2-Butanone	78-93-3	3.40E-07	3.69E-07	4.03E-07	7.66E-07	9.04E-07	1.28E-06	5.27E-07	1.43E-06	6.53E-07
n-Hexane	110-54-3	4.08E-07	9.34E-07	2.25E-07	7.44E-07	2.78E-06	2.52E-06	5.86E-06	6.93E-06	2.95E-06
Chloroform	67-66-3	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	5.66E-08	< 1.63E-07	< 1.68E-07
1,2-dichloroethane	107-06-3	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
1,1,1-Trichloroethane	71-55-6	6.80E-08	< 2.16E-07	1.53E-07	< 1.80E-07	3.71E-07	3.49E-05	1.15E-07	1.43E-07	1.12E-07
Benzene	71-43-2	1.70E-07	< 1.98E-07	2.25E-07	1.78E-07	3.71E-07	2.91E-07	4.69E-07	4.07E-07	4.21E-07
Carbon Tetrachloride	56-23-5	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
1,2-Dichloropropane	78-87-5	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Bromodichloromethane	75-27-4	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
1,4-Dioxane	123-91-1	< 7.25E-07	< 8.64E-07	8.30E-07	< 7.21E-07	< 7.42E-07	< 6.21E-07	< 6.25E-07	< 6.52E-07	< 6.74E-07
Trichloroethene	79-01-6	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	9.48E-08
Epichlorohydrin	106-89-8	< 3.63E-07	< 4.32E-07	4.15E-07	< 3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
cis-1,3-Dichloropropene	10061-01-5	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
4-Methyl-2-Pentanone	108-10-1	1.20E-05	1.66E-05	8.65E-06	1.08E-05	8.57E-06	7.96E-06	1.11E-05	1.41E-05	7.58E-06
trans-1,2-Dichloropropene	10061-02-6	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
1,1,2-Trichloroethane	79-00-5	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Toluene	108-88-3	5.67E-06	6.24E-06	2.42E-06	1.08E-05	1.14E-05	1.01E-05	9.37E-06	2.24E-05	9.05E-06
Chlorodibromoethene	124-48-1	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
2-Hexanone	591-78-6	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07

TRC

Table C.1-3. Tire Press - Speciated Volatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Volatiles (lbs/lb tire)										
1,2-Dibromoethane	106-93-4	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Tetrachloroethene	127-18-4	6.57E-08	< 2.16E-07	2.07E-07	< 1.80E-07	6.95E-08	1.77E-07	7.81E-08	1.02E-07	< 1.68E-07
Chlorobenzene	108-90-7	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Ethylbenzene	100-41-4	4.53E-06	2.49E-06	8.53E-07	1.04E-05	1.11E-05	8.54E-06	5.86E-06	1.83E-05	6.11E-06
Bromoform	75-25-2	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Styrene	100-42-5	3.40E-07	2.64E-07	3.10E-07	2.48E-07	8.34E-07	3.30E-06	6.84E-07	2.65E-07	6.95E-07
m & p-Xylenes	1330-20-7	1.47E-05	9.03E-06	4.68E-06	2.48E-05	2.55E-05	1.94E-05	1.74E-05	4.48E-05	1.85E-05
o-Xylene	95-47-6	3.63E-06	1.83E-06	1.01E-06	6.99E-06	8.34E-06	6.40E-06	4.69E-06	9.78E-06	5.05E-06
1,1,2,2-Tetrachloroethane	79-34-5	< 1.81E-07	< 2.16E-07	2.07E-07	1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
Cumene	98-82-8	1.04E-07	2.86E-07	4.15E-07	2.93E-07	3.94E-07	3.49E-07	2.54E-07	5.91E-07	1.77E-07
Benzyl Chloride	100-44-7	< 3.63E-07	< 4.32E-07	4.15E-07	< 3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
1,3-Dichlorobenzene	541-34-5	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
1,4-Dichlorobenzene	106-73-1	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	5.63E-07	4.88E-08	< 1.63E-07	< 1.68E-07
1,2-Dichlorobenzene	95-50-1	< 1.81E-07	< 2.16E-07	2.07E-07	< 1.80E-07	< 1.85E-07	< 1.55E-07	< 1.56E-07	< 1.63E-07	< 1.68E-07
1,2-Dibromo-3-Chloropropan	96-12-8	< 3.63E-07	< 4.32E-07	4.15E-07	3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
Hexachlorobutadiene	87-68-3	< 3.63E-07	< 4.32E-07	4.15E-07	3.61E-07	< 3.71E-07	< 3.11E-07	< 3.12E-07	< 3.26E-07	< 3.37E-07
* Propane	74-98-6			9.18E-07						
* Cyclobutane		1.81E-06	2.01E-06	3.35E-06	1.58E-06	1.62E-06				
* Butane			1.46E-06							
* Ethanol		2.27E-05	2.70E-05				1.16E-05			
* Isopropyl Alcohol		1.36E-06								
* Isopentane							3.88E-06			
* Isobutanol							7.76E-06			
* 1-Butanol	71-36-3	1.36E-06		1.56E-06						
* Methylpentane								3.91E-06	4.07E-06	
* Methylhexane		1.13E-06	1.73E-06	1.06E-06	2.25E-06	4.64E-06	7.76E-06	7.81E-06	1.02E-05	4.21E-06
* Methylhexane						4.64E-06	9.70E-06	7.81E-06	1.02E-05	6.32E-06
* Heptane		2.27E-06	3.93E-06	1.57E-06	6.76E-06	9.27E-06	1.75E-05	1.76E-05	1.83E-05	1.26E-05
* Methylcyclohexane		2.27E-06	2.70E-06	1.20E-06	4.51E-06	6.95E-06	1.36E-05	1.37E-05	1.63E-05	1.05E-05
* Methylheptane					4.51E-06	4.64E-06	7.76E-06	7.81E-06	8.15E-06	6.32E-06
* Dimethylcyclohexane					2.25E-06			5.86E-06	8.15E-06	4.21E-06
* Octane				1.27E-06	6.76E-06	9.27E-06	9.70E-06	1.37E-05	1.43E-05	1.05E-05
* Methylhexanone				2.17E-05						1.47E-05
* Cyclohexanone	108-94-1		6.86E-06		4.51E-06		5.82E-06			
* a-Pinene	7785-70-8	4.53E-06	5.40E-06	6.12E-06	2.25E-06	2.32E-06				
* Decane						2.32E-06		3.91E-06	8.15E-06	4.21E-06
* Undecane		2.04E-06	2.70E-06	2.59E-06	2.25E-06	2.32E-06		3.91E-06	6.11E-06	2.11E-06
* Dodecane		4.53E-06	5.40E-06	5.19E-06						
* C13-C14 Branched Alkane			2.41E-06	1.92E-06						
Total Detected		1.13E-04	1.14E-04	8.86E-05	1.20E-04	1.37E-04	2.07E-04	1.63E-04	2.56E-04	1.39E-04
Total with non-detects		< 1.23E-04	< 1.26E-04	< 8.86E-05	< 1.29E-04	< 1.47E-04	< 2.14E-04	< 1.71E-04	< 2.65E-04	< 1.48E-04

TRC

Table C.1-3. Tire Press - Speciated Volatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Volatiles (lbs/lb rubber)										
Dichlorodifluoromethane	75-71-8	< 2.11E-07	< 2.54E-07	2.13E-07	< 2.10E-07	1.41E-07	2.47E-07	1.80E-07	2.27E-07	< 1.98E-07
Chloromethane	74-87-3	9.77E-08	< 2.54E-07	8.34E-08	8.91E-08	< 2.12E-07	4.72E-08	1.03E-07	9.24E-08	6.70E-08
Vinyl Chloride	75-1-4	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
1,3-Butadiene	106-99-0	< 4.23E-07	< 5.08E-07	5.00E-07	< 4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
Chloroethane	75-00-3	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Bromomethane	74-83-9	1.14E-07	< 2.54E-07	2.50E-07	7.08E-08	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Acetonitrile	1722-09-4	< 4.23E-07	< 5.08E-07	5.00E-07	< 4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
Acrolein	107-02-8	< 4.23E-07	< 4.39E-07	4.86E-07	< 4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
Acetone	67-64-1	5.02E-06	6.47E-06	3.82E-06	8.91E-06	8.76E-06	1.12E-05	1.64E-05	2.84E-05	7.69E-06
Propylene Oxide	75-56-9	< 4.23E-07	< 5.08E-07	2.23E-06	< 4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
Trichlorofluoromethane	75-69-4	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Acrylonitrile	107-13-1	< 4.23E-07	< 5.08E-07	5.00E-07	< 4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
1,1-Dichloroethene	75-35-4	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	5.62E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Methylene Chloride	79-09-2	9.77E-07	9.35E-07	2.02E-06	7.60E-06	4.78E-06	5.39E-06	1.01E-06	2.84E-06	3.72E-06
Allyl Chloride	107-05-1	< 4.23E-07	< 5.08E-07	5.00E-07	< 4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
Carbon Disulfide	75-15-0	2.56E-05	9.01E-06	3.49E-06	7.34E-07	7.70E-06	4.72E-07	6.07E-06	6.87E-06	2.08E-06
Trichlortrifluoroethane	76-13-1	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
trans-1,2-Dichloroethene	156-60-5	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
cis-1,2-Dichloroehtene	156-59-2	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
1,1-Dichloroethane	75-34-3	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	7.64E-08	< 1.80E-07	< 1.89E-07	< 1.98E-07
t-Butyl Methyl Ether	1634-04-4	< 4.23E-07	< 5.08E-07	5.00E-07	< 4.19E-07	< 4.25E-07	2.92E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
Vinyle Acetate	108-05-4	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
2-Butanone	78-93-3	3.96E-07	4.34E-07	4.86E-07	8.91E-07	1.03E-06	1.48E-06	6.07E-07	1.66E-06	7.69E-07
n-Hexane	110-54-3	4.75E-07	1.10E-06	2.72E-07	8.65E-07	3.18E-06	2.92E-06	6.75E-06	8.05E-06	3.47E-06
Chloroform	67-66-3	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	6.52E-08	< 1.89E-07	< 1.98E-07
1,2-dichloroethane	107-06-3	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
1,1,1-Trichloroethane	71-55-6	7.92E-08	< 2.54E-07	1.85E-07	< 2.10E-07	4.25E-07	4.04E-05	1.33E-07	1.66E-07	1.31E-07
Benzene	71-43-2	1.98E-07	< 2.33E-07	2.71E-07	2.07E-07	4.25E-07	3.37E-07	5.40E-07	4.74E-07	4.96E-07
Carbon Tetrachloride	56-23-5	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
1,2-Dichloropropane	78-87-5	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Bromodichloromethane	75-27-4	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
1,4-Dioxane	123-91-1	< 8.45E-07	< 1.02E-06	1.00E-06	< 8.39E-07	< 8.49E-07	< 7.19E-07	< 7.20E-07	< 7.58E-07	< 7.94E-07
Trichloroethene	79-01-6	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	1.12E-07
Epichlorohydrin	106-89-8	< 4.23E-07	< 5.08E-07	5.00E-07	< 4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
cis-1,3-Dichloropropene	10061-01-5	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
4-Methyl-2-Pentanone	108-10-1	1.40E-05	1.96E-05	1.04E-05	1.26E-05	9.82E-06	9.21E-06	1.28E-05	1.63E-05	8.93E-06
trans-1,2-Dichloropropene	10061-02-6	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
1,1,2-Trichloroethane	79-00-5	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Toluene	108-88-3	6.60E-06	7.34E-06	2.92E-06	1.26E-05	1.30E-05	1.17E-05	1.08E-05	2.61E-05	1.07E-05
Chlorodibromoethene	124-48-1	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
2-Hexanone	591-78-6	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07

TRC

Table C.1-3. Tire Press - Speciated Volatiles

Compounds	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Volatiles (lbs/lb rubber)										
1,2-Dibromoethane	106-93-4	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Tetrachloroethene	127-18-4	7.66E-08	< 2.54E-07	2.50E-07	< 2.10E-07	7.96E-08	2.04E-07	8.99E-08	1.18E-07	< 1.98E-07
Chlorobenzene	108-90-7	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Ethylbenzene	100-41-4	5.28E-06	2.93E-06	1.03E-06	1.21E-05	1.27E-05	9.88E-06	6.75E-06	2.13E-05	7.19E-06
Bromoform	75-25-2	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Styrene	100-42-5	3.96E-07	3.11E-07	3.74E-07	2.88E-07	9.55E-07	3.82E-06	7.87E-07	3.08E-07	8.19E-07
m & p-Xylenes	1330-20-7	1.72E-05	1.06E-05	5.64E-06	2.88E-05	2.92E-05	2.25E-05	2.00E-05	5.21E-05	2.18E-05
o-Xylene	95-47-6	4.23E-06	2.15E-06	1.21E-06	8.13E-06	9.55E-06	7.41E-06	5.40E-06	1.14E-05	5.95E-06
1,1,2,2-Tetrachloroethane	79-34-5	< 2.11E-07	< 2.54E-07	2.50E-07	2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
Cumene	98-82-8	1.21E-07	3.37E-07	5.00E-07	3.41E-07	4.51E-07	4.04E-07	2.92E-07	6.87E-07	2.08E-07
Benzyl Chloride	100-44-7	< 4.23E-07	< 5.08E-07	5.00E-07	< 4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
1,3-Dichlorobenzene	541-34-5	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
1,4-Dichlorobenzene	106-73-1	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	6.51E-07	5.62E-08	< 1.89E-07	< 1.98E-07
1,2-Dichlorobenzene	95-50-1	< 2.11E-07	< 2.54E-07	2.50E-07	< 2.10E-07	< 2.12E-07	< 1.80E-07	< 1.80E-07	< 1.89E-07	< 1.98E-07
1,2-Dibromo-3-Chloropropan	96-12-8	< 4.23E-07	< 5.08E-07	5.00E-07	4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
Hexachlorobutadiene	87-68-3	< 4.23E-07	< 5.08E-07	5.00E-07	4.19E-07	< 4.25E-07	< 3.59E-07	< 3.60E-07	< 3.79E-07	< 3.97E-07
* Propane	74-98-6			1.11E-06						
* Cyclobutane		2.11E-06	2.37E-06	4.03E-06	1.83E-06	1.86E-06				
* Butane			1.72E-06							
* Ethanol		2.64E-05	3.18E-05				1.35E-05			
* Isopropyl Alcohol		1.58E-06								
* Isopentane							4.49E-06			
* Isobutanol							8.99E-06			
* 1-Butanol	71-36-3	1.58E-06		1.87E-06						
* Methylpentane								4.50E-06	4.74E-06	
* Methylhexane		1.32E-06	2.03E-06	1.28E-06	2.62E-06	5.31E-06	8.99E-06	8.99E-06	1.18E-05	4.96E-06
* Methylhexane						5.31E-06	1.12E-05	8.99E-06	1.18E-05	7.44E-06
* Heptane		2.64E-06	4.63E-06	1.89E-06	7.86E-06	1.06E-05	2.02E-05	2.02E-05	2.13E-05	1.49E-05
* Methylcyclohexane		2.64E-06	3.18E-06	1.45E-06	5.24E-06	7.96E-06	1.57E-05	1.57E-05	1.89E-05	1.24E-05
* Methylheptane					5.24E-06	5.31E-06	8.99E-06	8.99E-06	9.47E-06	7.44E-06
* Dimethylcyclohexane					2.62E-06			6.75E-06	9.47E-06	4.96E-06
* Octane				1.54E-06	7.86E-06	1.06E-05	1.12E-05	1.57E-05	1.66E-05	1.24E-05
* Methylhexanone				2.61E-05						1.74E-05
* Cyclohexanone	108-94-1		8.07E-06		5.24E-06		6.74E-06			
* a-Pinene	7785-70-8	5.28E-06	6.35E-06	7.38E-06	2.62E-06	2.65E-06				
* Decane						2.65E-06		4.50E-06	9.47E-06	4.96E-06
* Undecane		2.38E-06	3.18E-06	3.12E-06	2.62E-06	2.65E-06		4.50E-06	7.11E-06	2.48E-06
* Dodecane		5.28E-06	6.35E-06	6.25E-06						
* C13-C14 Branched Alkane			2.83E-06	2.31E-06						
Total Detected		1.32E-04	1.34E-04	1.07E-04	1.39E-04	1.57E-04	2.39E-04	1.88E-04	2.98E-04	1.63E-04
Total with non-detects		< 1.43E-04	< 1.49E-04	< 1.07E-04	< 1.50E-04	< 1.69E-04	< 2.48E-04	< 1.97E-04	< 3.08E-04	< 1.74E-04

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Table C.1-4. Tire Press - POM Train Results

	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
POM (mg)	17.2	14.3	17	14.3	10.4	8.5	5.4	14.9	9.9
Vol. Sampled (dscf)	84.314	116.981	168.531	77.865	89.172	82.324	72.318	77.056	80.724
Flowrate (dscfm)	206	246	246	203	220	211	195	188	215
POM (mg/m³)	7.20	4.32	3.56	6.48	4.12	3.65	2.64	6.83	4.33
POM (lb/hr)	5.56E-03	3.98E-03	3.28E-03	4.93E-03	3.39E-03	2.88E-03	1.93E-03	4.81E-03	3.49E-03
Run Time (min)	106	123.7	202	100	109.1	95	95.1	106.1	96
Tire Weight (lbs, 3tires)	60.16	70.40	119.50	56.22	64.66	64.48	59.28	61.14	61.20
Weight Percent Rubber (%)	85.80	85.00	83.00	86.00	87.34	86.40	86.86	86.00	84.87
POM (lb/lb tire)	1.63E-04	1.16E-04	9.25E-05	1.46E-04	9.54E-05	7.08E-05	5.15E-05	1.39E-04	9.12E-05
POM (lb/lb rubber)	1.90E-04	1.37E-04	1.11E-04	1.70E-04	1.09E-04	8.19E-05	5.93E-05	1.62E-04	1.07E-04

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Table C.1-5. Tire Press - Speciated Sulfur

	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Sulfur (µg/m³)										
Carbonyl Sulfide	463-58-1	41.2	< 14.9	< 14.9	< 9.80	< 9.80	< 20.0	< 9.80	< 20.0	< 9.80
Methyl Mercaptan	74-93-1	< 7.90	< 12.0	< 12.0	< 7.90	< 7.90	< 16.0	< 7.90	< 16.0	< 7.90
Ethyl Mercaptan	75-08-1	< 10.0	< 15.0	< 15.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
Dimethyl Sulfide	75-18-3	< 10.0	< 15.0	< 15.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
Carbon Disulfide	75-15-0	865	224.5	75.2	26.5	225	18.2	225	267	58.6
Isopropyl Mercaptan	75-33-2	< 12.0	< 18.5	< 18.5	< 12.0	< 12.0	< 25.0	< 12.0	< 25.0	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15.0	< 22.0	< 22.0	< 15.0	< 15.0	< 29.0	< 15.0	< 29.0	< 15.0
n-Propyl Mercaptan	107-03-9	< 12.0	< 18.5	< 18.5	< 12.0	< 12.0	< 25.0	< 12.0	< 25.0	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12.0	< 18.5	< 18.5	< 12.0	< 12.0	< 25.0	< 12.0	< 25.0	< 12.0
Thiophene	110-02-1	< 14.0	< 21.0	< 21.0	< 14.0	< 14.0	< 28.0	< 14.0	< 28.0	< 14.0
Isobutyl Mercaptan	513-44-0	< 15.0	< 22.0	< 22.0	< 15.0	< 15.0	< 29.0	< 15.0	< 29.0	< 15.0
Diethyl Sulfide	352-93-2	< 15.0	< 22.0	< 22.0	< 15.0	< 15.0	< 29.0	< 15.0	< 29.0	< 15.0
n-Butyl Mercaptan	109-79-5	< 15.0	< 22.0	< 22.0	< 15.0	< 15.0	< 29.0	< 15.0	< 29.0	< 15.0
Dimethyl Disulfide	624-92-0	< 7.70	< 11.4	< 11.4	< 7.70	< 7.70	< 15.0	< 7.70	< 15.0	< 7.70
3-Methylthiophene	616-44-4	< 16.0	< 24.0	< 24.0	< 16.0	< 16.0	< 32.0	< 16.0	< 32.0	< 16.0
Tetrahydrothiophene	110-01-0	< 14.0	< 21.5	< 21.5	< 14.0	< 14.0	< 29.0	< 14.0	< 29.0	< 14.0
2-Ethylthiophene	872-55-9	< 18.0	< 27.5	< 27.5	< 18.0	< 18.0	< 37.0	< 18.0	< 37.0	< 18.0
2,5-Dimethylthiophene	638-02-8	< 18.0	< 27.5	< 27.5	< 18.0	< 18.0	< 37.0	< 18.0	< 37.0	< 18.0
Diethyl Disulfide	110-81-6	< 10.0	< 15.0	< 15.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
Total Detected		906.2	224.5	75.2	26.5	225	18.2	225	267	58.6
Total with non-detects		< 1127.8	< 572.7	< 423.4	< 257.9	< 456.4	< 483.2	< 456.4	< 732.0	< 290.0
Sulfur (lbs/hr)										
Carbonyl Sulfide	463-58-1	3.18E-05	< 1.37E-05	< 1.37E-05	< 7.45E-06	< 8.08E-06	< 1.58E-05	< 7.16E-06	< 1.41E-05	< 7.89E-06
Methyl Mercaptan	74-93-1	< 6.10E-06	< 1.10E-05	< 1.10E-05	< 6.01E-06	< 6.51E-06	< 1.26E-05	< 5.77E-06	< 1.13E-05	< 6.36E-06
Ethyl Mercaptan	75-08-1	< 7.72E-06	< 1.38E-05	< 1.38E-05	< 7.60E-06	< 8.24E-06	< 1.58E-05	< 7.30E-06	< 1.41E-05	< 8.05E-06
Dimethyl Sulfide	75-18-3	< 7.72E-06	< 1.38E-05	< 1.38E-05	< 7.60E-06	< 8.24E-06	< 1.58E-05	< 7.30E-06	< 1.41E-05	< 8.05E-06
Carbon Disulfide	75-15-0	6.68E-04	2.07E-04	6.93E-05	2.02E-05	1.85E-04	1.44E-05	1.64E-04	1.88E-04	< 4.72E-05
Isopropyl Mercaptan	75-33-2	< 9.26E-06	< 1.70E-05	< 1.70E-05	< 9.13E-06	< 9.89E-06	< 1.98E-05	< 8.77E-06	< 1.76E-05	< 9.66E-06
tert-Butyl Mercaptan	75-66-1	< 1.16E-05	< 2.03E-05	< 2.03E-05	< 1.14E-05	< 1.24E-05	< 2.29E-05	< 1.10E-05	< 2.04E-05	< 1.21E-05
n-Propyl Mercaptan	107-03-9	< 9.26E-06	< 1.70E-05	< 1.70E-05	< 9.13E-06	< 9.89E-06	< 1.98E-05	< 8.77E-06	< 1.76E-05	< 9.66E-06
Ethyl Methyl Sulfide	624-89-5	< 9.26E-06	< 1.70E-05	< 1.70E-05	< 9.13E-06	< 9.89E-06	< 1.98E-05	< 8.77E-06	< 1.76E-05	< 9.66E-06
Thiophene	110-02-1	< 1.08E-05	< 1.94E-05	< 1.94E-05	< 1.06E-05	< 1.15E-05	< 2.21E-05	< 1.02E-05	< 1.97E-05	< 1.13E-05
Isobutyl Mercaptan	513-44-0	< 1.16E-05	< 2.03E-05	< 2.03E-05	< 1.14E-05	< 1.24E-05	< 2.29E-05	< 1.10E-05	< 2.04E-05	< 1.21E-05
Diethyl Sulfide	352-93-2	< 1.16E-05	< 2.03E-05	< 2.03E-05	< 1.14E-05	< 1.24E-05	< 2.29E-05	< 1.10E-05	< 2.04E-05	< 1.21E-05
n-Butyl Mercaptan	109-79-5	< 1.16E-05	< 2.03E-05	< 2.03E-05	< 1.14E-05	< 1.24E-05	< 2.29E-05	< 1.10E-05	< 2.04E-05	< 1.21E-05
Dimethyl Disulfide	624-92-0	< 5.94E-06	< 1.05E-05	< 1.05E-05	< 5.86E-06	< 6.35E-06	< 1.19E-05	< 5.62E-06	< 1.06E-05	< 6.20E-06
3-Methylthiophene	616-44-4	< 1.23E-05	< 2.21E-05	< 2.21E-05	< 1.22E-05	< 1.32E-05	< 2.53E-05	< 1.17E-05	< 2.25E-05	< 1.29E-05
Tetrahydrothiophene	110-01-0	< 1.08E-05	< 1.98E-05	< 1.98E-05	< 1.06E-05	< 1.15E-05	< 2.29E-05	< 1.02E-05	< 2.04E-05	< 1.13E-05
2-Ethylthiophene	872-55-9	< 1.39E-05	< 2.53E-05	< 2.53E-05	< 1.37E-05	< 1.48E-05	< 2.92E-05	< 1.31E-05	< 2.61E-05	< 1.45E-05
2,5-Dimethylthiophene	638-02-8	< 1.39E-05	< 2.53E-05	< 2.53E-05	< 1.37E-05	< 1.48E-05	< 2.92E-05	< 1.31E-05	< 2.61E-05	< 1.45E-05
Diethyl Disulfide	110-81-6	< 7.72E-06	< 1.38E-05	< 1.38E-05	< 7.60E-06	< 8.24E-06	< 1.58E-05	< 7.30E-06	< 1.41E-05	< 8.05E-06
Total Detected		6.99E-04	2.07E-04	6.93E-05	2.02E-05	1.85E-04	1.44E-05	1.64E-04	1.88E-04	4.72E-05
Total with non-detects		< 8.70E-04	< 5.28E-04	< 3.90E-04	< 1.96E-04	< 3.76E-04	< 3.82E-04	< 3.33E-04	< 5.16E-04	< 2.34E-04

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Table C.1-5. Tire Press - Speciated Sulfur

	CAS Numbers	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Sulfur (lbs/lb tire)										
Carbonyl Sulfide	463-58-1	9.34E-07	< 3.90E-07	< 4.10E-07	< 2.21E-07	< 2.27E-07	< 3.88E-07	< 1.91E-07	< 4.07E-07	< 2.06E-07
Methyl Mercaptan	74-93-1	< 1.79E-07	< 3.13E-07	< 3.29E-07	< 1.78E-07	< 1.83E-07	< 3.11E-07	< 1.54E-07	< 3.26E-07	< 1.66E-07
Ethyl Mercaptan	75-08-1	< 2.27E-07	< 3.93E-07	< 4.12E-07	< 2.25E-07	< 2.32E-07	< 3.88E-07	< 1.95E-07	< 4.07E-07	< 2.11E-07
Dimethyl Sulfide	75-18-3	< 2.27E-07	< 3.93E-07	< 4.12E-07	< 2.25E-07	< 2.32E-07	< 3.88E-07	< 1.95E-07	< 4.07E-07	< 2.11E-07
Carbon Disulfide	75-15-0	1.96E-05	6.04E-06	2.17E-06	5.97E-07	5.21E-06	3.53E-07	4.39E-06	5.44E-06	1.23E-06
Isopropyl Mercaptan	75-33-2	< 2.72E-07	< 4.84E-07	< 5.10E-07	< 2.71E-07	< 2.78E-07	< 4.85E-07	< 2.34E-07	< 5.09E-07	< 2.53E-07
tert-Butyl Mercaptan	75-66-1	< 3.40E-07	< 5.78E-07	< 6.03E-07	< 3.38E-07	< 3.48E-07	< 5.63E-07	< 2.93E-07	< 5.91E-07	< 3.16E-07
n-Propyl Mercaptan	107-03-9	< 2.72E-07	< 4.84E-07	< 5.10E-07	< 2.71E-07	< 2.78E-07	< 4.85E-07	< 2.34E-07	< 5.09E-07	< 2.53E-07
Ethyl Methyl Sulfide	624-89-5	< 2.72E-07	< 4.84E-07	< 5.10E-07	< 2.71E-07	< 2.78E-07	< 4.85E-07	< 2.34E-07	< 5.09E-07	< 2.53E-07
Thiophene	110-02-1	< 3.17E-07	< 5.51E-07	< 5.77E-07	< 3.16E-07	< 3.24E-07	< 5.43E-07	< 2.73E-07	< 5.70E-07	< 2.95E-07
Isobutyl Mercaptan	513-44-0	< 3.40E-07	< 5.78E-07	< 6.03E-07	< 3.38E-07	< 3.48E-07	< 5.63E-07	< 2.93E-07	< 5.91E-07	< 3.16E-07
Diethyl Sulfide	352-93-2	< 3.40E-07	< 5.78E-07	< 6.03E-07	< 3.38E-07	< 3.48E-07	< 5.63E-07	< 2.93E-07	< 5.91E-07	< 3.16E-07
n-Butyl Mercaptan	109-79-5	< 3.40E-07	< 5.78E-07	< 6.03E-07	< 3.38E-07	< 3.48E-07	< 5.63E-07	< 2.93E-07	< 5.91E-07	< 3.16E-07
Dimethyl Disulfide	624-92-0	< 1.74E-07	< 2.98E-07	< 3.11E-07	< 1.74E-07	< 1.78E-07	< 2.91E-07	< 1.50E-07	< 3.06E-07	< 1.62E-07
3-Methylthiophene	616-44-4	< 3.63E-07	< 6.29E-07	< 6.60E-07	< 3.61E-07	< 3.71E-07	< 6.21E-07	< 3.12E-07	< 6.52E-07	< 3.37E-07
Tetrahydrothiophene	110-01-0	< 3.17E-07	< 5.63E-07	< 5.93E-07	< 3.16E-07	< 3.24E-07	< 5.63E-07	< 2.73E-07	< 5.91E-07	< 2.95E-07
2-Ethylthiophene	872-55-9	< 4.08E-07	< 7.20E-07	< 7.58E-07	< 4.06E-07	< 4.17E-07	< 7.18E-07	< 3.52E-07	< 7.54E-07	< 3.79E-07
2,5-Dimethylthiophene	638-02-8	< 4.08E-07	< 7.20E-07	< 7.58E-07	< 4.06E-07	< 4.17E-07	< 7.18E-07	< 3.52E-07	< 7.54E-07	< 3.79E-07
Diethyl Disulfide	110-81-6	< 2.27E-07	< 3.93E-07	< 4.12E-07	< 2.25E-07	< 2.32E-07	< 3.88E-07	< 1.95E-07	< 4.07E-07	< 2.11E-07
Total Detected		2.05E-05	6.04E-06	2.17E-06	5.97E-07	5.21E-06	3.53E-07	4.39E-06	5.44E-06	1.23E-06
Total with non-detects		< 2.56E-05	< 1.52E-05	< 1.17E-05	< 5.81E-06	< 1.06E-05	< 9.38E-06	< 8.91E-06	< 1.49E-05	< 6.11E-06
Sulfur (lbs/lb rubber)										
Carbonyl Sulfide	463-58-1	1.09E-06	< 4.59E-07	< 4.94E-07	< 2.57E-07	< 2.60E-07	< 4.49E-07	< 2.20E-07	< 4.74E-07	< 2.43E-07
Methyl Mercaptan	74-93-1	< 2.09E-07	< 3.69E-07	< 3.96E-07	< 2.07E-07	< 2.10E-07	< 3.59E-07	< 1.78E-07	< 3.79E-07	< 1.96E-07
Ethyl Mercaptan	75-08-1	< 2.64E-07	< 4.63E-07	< 4.97E-07	< 2.62E-07	< 2.65E-07	< 4.49E-07	< 2.25E-07	< 4.74E-07	< 2.48E-07
Dimethyl Sulfide	75-18-3	< 2.64E-07	< 4.63E-07	< 4.97E-07	< 2.62E-07	< 2.65E-07	< 4.49E-07	< 2.25E-07	< 4.74E-07	< 2.48E-07
Carbon Disulfide	75-15-0	2.28E-05	7.10E-06	2.61E-06	6.95E-07	5.97E-06	4.09E-07	5.06E-06	6.32E-06	1.45E-06
Isopropyl Mercaptan	75-33-2	< 3.17E-07	< 5.70E-07	< 6.15E-07	< 3.15E-07	< 3.18E-07	< 5.62E-07	< 2.70E-07	< 5.92E-07	< 2.98E-07
tert-Butyl Mercaptan	75-66-1	< 3.96E-07	< 6.80E-07	< 7.27E-07	< 3.93E-07	< 3.98E-07	< 6.51E-07	< 3.37E-07	< 6.87E-07	< 3.72E-07
n-Propyl Mercaptan	107-03-9	< 3.17E-07	< 5.70E-07	< 6.15E-07	< 3.15E-07	< 3.18E-07	< 5.62E-07	< 2.70E-07	< 5.92E-07	< 2.98E-07
Ethyl Methyl Sulfide	624-89-5	< 3.17E-07	< 5.70E-07	< 6.15E-07	< 3.15E-07	< 3.18E-07	< 5.62E-07	< 2.70E-07	< 5.92E-07	< 2.98E-07
Thiophene	110-02-1	< 3.70E-07	< 6.48E-07	< 6.96E-07	< 3.67E-07	< 3.71E-07	< 6.29E-07	< 3.15E-07	< 6.63E-07	< 3.47E-07
Isobutyl Mercaptan	513-44-0	< 3.96E-07	< 6.80E-07	< 7.27E-07	< 3.93E-07	< 3.98E-07	< 6.51E-07	< 3.37E-07	< 6.87E-07	< 3.72E-07
Diethyl Sulfide	352-93-2	< 3.96E-07	< 6.80E-07	< 7.27E-07	< 3.93E-07	< 3.98E-07	< 6.51E-07	< 3.37E-07	< 6.87E-07	< 3.72E-07
n-Butyl Mercaptan	109-79-5	< 3.96E-07	< 6.80E-07	< 7.27E-07	< 3.93E-07	< 3.98E-07	< 6.51E-07	< 3.37E-07	< 6.87E-07	< 3.72E-07
Dimethyl Disulfide	624-92-0	< 2.03E-07	< 3.51E-07	< 3.75E-07	< 2.02E-07	< 2.04E-07	< 3.37E-07	< 1.73E-07	< 3.55E-07	< 1.91E-07
3-Methylthiophene	616-44-4	< 4.23E-07	< 7.41E-07	< 7.95E-07	< 4.19E-07	< 4.25E-07	< 7.19E-07	< 3.60E-07	< 7.58E-07	< 3.97E-07
Tetrahydrothiophene	110-01-0	< 3.70E-07	< 6.62E-07	< 7.14E-07	< 3.67E-07	< 3.71E-07	< 6.51E-07	< 3.15E-07	< 6.87E-07	< 3.47E-07
2-Ethylthiophene	872-55-9	< 4.75E-07	< 8.48E-07	< 9.13E-07	< 4.72E-07	< 4.78E-07	< 8.31E-07	< 4.05E-07	< 8.76E-07	< 4.47E-07
2,5-Dimethylthiophene	638-02-8	< 4.75E-07	< 8.48E-07	< 9.13E-07	< 4.72E-07	< 4.78E-07	< 8.31E-07	< 4.05E-07	< 8.76E-07	< 4.47E-07
Diethyl Disulfide	110-81-6	< 2.64E-07	< 4.63E-07	< 4.97E-07	< 2.62E-07	< 2.65E-07	< 4.49E-07	< 2.25E-07	< 4.74E-07	< 2.48E-07
Total Detected		2.39E-05	7.10E-06	2.61E-06	6.95E-07	5.97E-06	4.09E-07	5.06E-06	6.32E-06	1.45E-06
Total with non-detects		< 2.98E-05	< 1.78E-05	< 1.41E-05	< 6.76E-06	< 1.21E-05	< 1.09E-05	< 1.03E-05	< 1.73E-05	< 7.19E-06

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Table C.1-6. Tire Press Speciated Amines

	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I
Conc. (µg/m³)									
Trimethylamine	0.58	< 1.32	< 1.46	< 1.49	< 2.39	< 1.56	< 2.23	< 1.40	< 1.38
Dimethylamine	25.65	< 1.32	< 1.46	0.74	0.36	0.19	< 2.23	0.60	0.36
Diethylamine	< 5.40	< 1.32	< 1.46	< 1.49	< 2.39	< 1.56	< 2.23	< 1.40	< 1.38
Butylamine	< 5.40	< 1.32	< 1.46	< 1.49	< 2.39	< 1.56	< 2.23	< 1.40	< 1.38
Cyclohexylamine	< 5.40	< 1.32	< 1.46	< 1.49	< 2.39	< 1.56	< 2.23	< 1.40	< 1.38
Diphenylamine	< 5.40	< 1.32	< 1.46	< 1.49	< 2.39	< 1.56	< 2.23	< 1.40	< 1.38
Total	26.22	0.00	0.00	0.74	0.36	0.19	0.00	0.60	0.36
Total with non-detects	< 47.84	< 7.94	< 8.74	< 8.17	< 12.31	< 7.98	< 13.37	< 7.62	< 7.28
Emission Rate (lb/hr)									
Trimethylamine	2.29E-07	< 6.09E-07	< 1.09E-06	< 5.45E-07	< 9.79E-07	< 5.78E-07	< 7.88E-07	< 5.53E-07	< 4.92E-07
Dimethylamine	1.02E-05	< 6.09E-07	< 1.09E-06	2.73E-07	1.47E-07	7.15E-08	< 7.88E-07	2.38E-07	1.29E-07
Diethylamine	< 2.15E-06	< 6.09E-07	< 1.09E-06	< 5.45E-07	< 9.79E-07	< 5.78E-07	< 7.88E-07	< 5.53E-07	< 4.92E-07
Butylamine	< 2.15E-06	< 6.09E-07	< 1.09E-06	< 5.45E-07	< 9.79E-07	< 5.78E-07	< 7.88E-07	< 5.53E-07	< 4.92E-07
Cyclohexylamine	< 2.15E-06	< 6.09E-07	< 1.09E-06	< 5.45E-07	< 9.79E-07	< 5.78E-07	< 7.88E-07	< 5.53E-07	< 4.92E-07
Diphenylamine	< 2.15E-06	< 6.09E-07	< 1.09E-06	< 5.45E-07	< 9.79E-07	< 5.78E-07	< 7.88E-07	< 5.53E-07	< 4.92E-07
Total	1.04E-05	0.00E+00	0.00E+00	2.73E-07	1.47E-07	7.15E-08	0.00E+00	2.38E-07	1.29E-07
Total with non-detects	< 1.90E-05	< 3.65E-06	< 6.52E-06	< 3.00E-06	< 5.04E-06	< 2.96E-06	< 4.73E-06	< 3.00E-06	< 2.59E-06
Emission Rate (lb/lb tire)									
Trimethylamine	6.72E-09	< 1.79E-08	< 3.12E-08	< 1.58E-08	< 2.71E-08	< 1.47E-08	< 2.07E-08	< 1.58E-08	< 1.29E-08
Dimethylamine	2.99E-07	< 1.79E-08	< 3.12E-08	7.91E-09	4.06E-09	1.82E-09	< 2.07E-08	6.80E-09	3.36E-09
Diethylamine	< 6.30E-08	< 1.79E-08	< 3.12E-08	< 1.58E-08	< 2.71E-08	< 1.47E-08	< 2.07E-08	< 1.58E-08	< 1.29E-08
Butylamine	< 6.30E-08	< 1.79E-08	< 3.12E-08	< 1.58E-08	< 2.71E-08	< 1.47E-08	< 2.07E-08	< 1.58E-08	< 1.29E-08
Cyclohexylamine	< 6.30E-08	< 1.79E-08	< 3.12E-08	< 1.58E-08	< 2.71E-08	< 1.47E-08	< 2.07E-08	< 1.58E-08	< 1.29E-08
Diphenylamine	< 6.30E-08	< 1.79E-08	< 3.12E-08	< 1.58E-08	< 2.71E-08	< 1.47E-08	< 2.07E-08	< 1.58E-08	< 1.29E-08
Total	3.06E-07	0.00E+00	0.00E+00	7.91E-09	4.06E-09	1.82E-09	0.00E+00	6.80E-09	3.36E-09
Total with non-detects	< 5.58E-07	< 1.07E-07	< 1.87E-07	< 8.70E-08	< 1.39E-07	< 7.52E-08	< 1.24E-07	< 8.59E-08	< 6.77E-08
Emission Rate (lb/lb rubber)									
Trimethylamine	7.83E-09	< 2.08E-08	< 3.63E-08	< 1.84E-08	< 3.16E-08	< 1.71E-08	< 2.41E-08	< 1.84E-08	< 1.50E-08
Dimethylamine	3.49E-07	< 2.08E-08	< 3.63E-08	9.21E-09	4.74E-09	2.12E-09	< 2.41E-08	7.93E-09	3.92E-09
Diethylamine	< 7.34E-08	< 2.08E-08	< 3.63E-08	< 1.84E-08	< 3.16E-08	< 1.71E-08	< 2.41E-08	< 1.84E-08	< 1.50E-08
Butylamine	< 7.34E-08	< 2.08E-08	< 3.63E-08	< 1.84E-08	< 3.16E-08	< 1.71E-08	< 2.41E-08	< 1.84E-08	< 1.50E-08
Cyclohexylamine	< 7.34E-08	< 2.08E-08	< 3.63E-08	< 1.84E-08	< 3.16E-08	< 1.71E-08	< 2.41E-08	< 1.84E-08	< 1.50E-08
Diphenylamine	< 7.34E-08	< 2.08E-08	< 3.63E-08	< 1.84E-08	< 3.16E-08	< 1.71E-08	< 2.41E-08	< 1.84E-08	< 1.50E-08
Total	3.56E-07	0.00E+00	0.00E+00	9.21E-09	4.74E-09	2.12E-09	0.00E+00	7.93E-09	3.92E-09
Total with non-detects	< 6.50E-07	< 1.25E-07	< 2.18E-07	< 1.01E-07	< 1.63E-07	< 8.77E-08	< 1.44E-07	< 1.00E-07	< 7.89E-08

TRC

Section C.2

Lab Scale Oven Curing - Tire Cuts

TRC

Section C.2

Lab Scale Oven Curing - Tire Cuts

Table Number	Title	No. of Pages
C.2-1	Tire Cut FTIR Data	3

TRC

Table C.2-1 TIRE CUT FTIR DATA
Total mg Emitted

	Inorganics			Organics								
	Carbon Monoxide	Sulfur Dioxide	Ammonia	Carbonyl Sulfide	Methanol	Carbon Disulfide	t-Butyl Amine	Methane	Ethylene	Ethanol	Other	TOTAL
Lab Cut No. 1	0.13	0.05	0.19	0.03	0.00	2.05	0.58	0.00	0.08	2.31	15.30	20.35
Lab Cut No. 2	0.41	0.08	0.29	0.07	0.00	1.97	1.37	0.01	0.03	4.25	23.10	30.80
Lab Cut No. 3	0.65	1.78	1.64	0.62	0.00	9.68	12.91	0.07	70.15	13.89	23.10	130.42
Lab Cut No. 4	0.28	1.38	0.17	0.70	6.18	16.26	15.12	0.05	0.55	0.52	12.60	51.98
Lab Cut No. 5	0.34	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00	0.00	3.40	7.32
Lab Cut No. 6	0.31	0.03	0.03	0.14	2.05	5.17	2.79	0.02	0.11	0.19	5.20	15.67
Lab Cut No. 7	0.85	0.09	0.24	0.85	6.13	22.95	16.70	0.04	0.03	0.00	15.80	62.50
Lab Cut No. 8	0.23	0.50	0.14	1.36	6.41	10.60	9.32	0.04	0.02	0.59	14.60	42.94
Lab Cut No. 9	1.00	1.39	0.19	7.23	13.90	71.39	7.34	0.07	0.15	10.96	60.80	171.84
Lab Cut No. 10	0.82	0.16	0.03	4.10	1.71	10.83	16.06	1.10	0.08	12.91	32.30	79.08
Lab Cut No. 11	0.52	0.27	0.14	3.44	11.31	22.65	4.84	0.02	0.14	8.05	24.50	74.95
Lab Cut No. 12	0.92	0.03	0.19	2.53	9.88	17.31	14.25	0.00	0.04	0.91	20.40	65.31
Lab Cut No. 13	1.01	0.09	0.79	0.57	12.56	4.84	18.86	0.05	0.06	0.00	64.10	101.03
Lab Cut No. 14	0.47	0.00	0.30	0.12	5.68	2.21	6.32	0.01	0.07	0.00	20.80	35.21
Lab Cut No. 15	0.98	0.10	0.60	0.29	10.65	4.04	14.33	0.05	0.02	0.00	45.50	74.88
Lab Cut No. 16	1.12	2.11	0.67	4.98	20.85	39.20	22.27	0.32	0.07	10.39	34.50	132.58
Lab Cut No. 17	0.76	0.19	0.66	2.66	12.05	16.82	17.31	0.07	0.01	0.00	17.10	66.01
Lab Cut No. 18	0.38	0.00	0.62	3.07	14.30	23.26	22.90	0.05	0.10	1.29	11.80	76.77
Lab Cut No. 19	0.86	0.00	1.08	6.19	34.69	53.39	41.34	0.25	0.10	5.05	36.40	177.41
Lab Cut No. 20	1.33	2.99	0.21	3.74	10.33	14.29	11.71	0.02	1.05	0.89	13.40	55.43
Lab Cut No. 21	1.30	0.11	0.29	5.59	22.52	27.11	21.05	0.05	0.04	4.28	32.00	112.63
Lab Cut No. 22	15.02	0.00	0.29	5.80	27.22	32.09	23.05	0.05	0.05	4.16	23.80	116.22
Lab Cut No. 23	0.84	0.00	0.13	2.26	21.91	9.80	19.35	0.16	0.01	4.91	33.60	92.00
Lab Cut No. 24	1.86	0.00	0.24	3.02	29.05	7.72	28.36	0.13	0.05	4.63	32.20	105.16
Lab Cut No. 25	3.70	0.08	1.96	9.90	27.00	50.05	40.86	0.32	0.05	0.00	66.70	194.88
Lab Cut No. 26	2.69	0.00	1.81	7.56	19.30	31.05	51.25	0.32	0.40	0.00	97.10	206.98
Lab Cut No. 27	2.73	0.00	1.81	8.21	19.95	36.91	28.78	0.24	0.12	0.00	46.20	140.41
Lab Cut No. 28	1.24	0.94	0.26	2.62	22.88	6.61	23.11	0.23	0.03	6.71	29.00	91.19

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Table C.2-1 TIRE CUT FTIR DATA

lb/lb Rubber

	Inorganics			Organics								
	Carbon Monoxide	Sulfur Dioxide	Ammonia	Carbonyl Sulfide	Methanol	Carbon Disulfide	t-Butyl Amine	Methane	Ethylene	Ethanol	Other	TOTAL
Lab Cut No. 1	3.52E-07	1.35E-07	5.15E-07	8.13E-08	ND	5.55E-06	1.57E-06	ND	2.17E-07	6.26E-06	4.15E-05	5.51E-05
Lab Cut No. 2	9.95E-07	1.94E-07	7.04E-07	1.70E-07	ND	4.78E-06	3.33E-06	2.43E-08	7.28E-08	1.03E-05	5.61E-05	7.48E-05
Lab Cut No. 3	1.52E-06	4.15E-06	3.82E-06	1.45E-06	ND	2.26E-05	3.01E-05	1.63E-07	1.64E-04	3.24E-05	5.38E-05	3.04E-04
Lab Cut No. 4	7.14E-07	3.52E-06	4.33E-07	1.78E-06	1.58E-05	4.15E-05	3.86E-05	1.27E-07	1.40E-06	1.33E-06	3.21E-05	1.33E-04
Lab Cut No. 5	7.09E-07	ND	ND	ND	8.18E-06	ND	ND	ND	ND	ND	7.09E-06	1.53E-05
Lab Cut No. 6	7.18E-07	6.95E-08	6.95E-08	3.24E-07	4.75E-06	1.20E-05	6.46E-06	4.63E-08	2.43E-07	4.40E-07	1.20E-05	3.63E-05
Lab Cut No. 7	2.20E-06	2.33E-07	6.21E-07	2.20E-06	1.59E-05	5.93E-05	4.32E-05	1.03E-07	7.76E-08	ND	4.09E-05	1.62E-04
Lab Cut No. 8	6.52E-07	1.42E-06	3.97E-07	3.85E-06	1.82E-05	3.00E-05	2.64E-05	1.13E-07	4.53E-08	1.67E-06	4.14E-05	1.22E-04
Lab Cut No. 9	2.30E-06	3.20E-06	4.38E-07	1.67E-05	3.20E-05	1.64E-04	1.69E-05	1.61E-07	3.46E-07	2.52E-05	1.40E-04	3.96E-04
Lab Cut No. 10	1.67E-06	3.25E-07	6.09E-08	8.33E-06	3.47E-06	2.20E-05	3.26E-05	2.23E-06	1.52E-07	2.62E-05	6.56E-05	1.61E-04
Lab Cut No. 11	1.21E-06	6.30E-07	3.27E-07	8.03E-06	2.64E-05	5.28E-05	1.13E-05	4.67E-08	3.27E-07	1.88E-05	5.72E-05	1.75E-04
Lab Cut No. 12	2.43E-06	7.94E-08	5.03E-07	6.70E-06	2.61E-05	4.58E-05	3.77E-05	ND	9.26E-08	2.41E-06	5.40E-05	1.73E-04
Lab Cut No. 13	3.03E-06	2.70E-07	2.37E-06	1.71E-06	3.77E-05	1.45E-05	5.66E-05	1.50E-07	1.65E-07	ND	1.92E-04	3.03E-04
Lab Cut No. 14	1.53E-06	ND	9.74E-07	3.90E-07	1.84E-05	7.17E-06	2.05E-05	3.25E-08	2.27E-07	ND	6.75E-05	1.14E-04
Lab Cut No. 15	2.96E-06	3.02E-07	1.81E-06	8.77E-07	3.22E-05	1.22E-05	4.33E-05	1.51E-07	6.05E-08	ND	1.38E-04	2.26E-04
Lab Cut No. 16	2.90E-06	5.47E-06	1.74E-06	1.29E-05	5.41E-05	1.02E-04	5.78E-05	8.30E-07	1.82E-07	2.69E-05	8.95E-05	3.44E-04
Lab Cut No. 17	1.88E-06	4.69E-07	1.63E-06	6.57E-06	2.98E-05	4.15E-05	4.27E-05	1.73E-07	1.23E-08	ND	4.22E-05	1.63E-04
Lab Cut No. 18	1.11E-06	ND	1.82E-06	9.00E-06	4.19E-05	6.82E-05	6.71E-05	1.47E-07	2.93E-07	3.78E-06	3.46E-05	2.25E-04
Lab Cut No. 19	2.36E-06	ND	2.96E-06	1.70E-05	9.52E-05	1.47E-04	1.13E-04	6.86E-07	2.74E-07	1.39E-05	9.99E-05	4.87E-04
Lab Cut No. 20	2.82E-06	6.35E-06	4.46E-07	7.94E-06	2.19E-05	3.03E-05	2.49E-05	4.25E-08	2.23E-06	1.89E-06	2.85E-05	1.18E-04
Lab Cut No. 21	2.69E-06	2.28E-07	6.01E-07	1.16E-05	4.67E-05	5.62E-05	4.36E-05	1.04E-07	7.25E-08	8.87E-06	6.63E-05	2.33E-04
Lab Cut No. 22	3.12E-05	ND	6.02E-07	1.20E-05	5.65E-05	6.66E-05	4.78E-05	1.04E-07	9.34E-08	8.63E-06	4.94E-05	2.41E-04
Lab Cut No. 23	2.51E-06	ND	3.88E-07	6.74E-06	6.54E-05	2.92E-05	5.77E-05	4.77E-07	2.98E-08	1.46E-05	1.00E-04	2.74E-04
Lab Cut No. 24	5.05E-06	ND	6.51E-07	8.20E-06	7.89E-05	2.10E-05	7.70E-05	3.53E-07	1.36E-07	1.26E-05	8.74E-05	2.85E-04
Lab Cut No. 25	8.07E-06	1.74E-07	4.27E-06	2.16E-05	5.89E-05	1.09E-04	8.91E-05	6.98E-07	1.18E-07	ND	1.45E-04	4.25E-04
Lab Cut No. 26	6.69E-06	ND	4.50E-06	1.88E-05	4.80E-05	7.72E-05	1.27E-04	7.96E-07	9.95E-07	ND	2.41E-04	5.15E-04
Lab Cut No. 27	5.53E-06	ND	3.67E-06	1.66E-05	4.04E-05	7.48E-05	5.83E-05	4.86E-07	2.43E-07	ND	9.36E-05	2.85E-04
Lab Cut No. 28	3.65E-06	2.77E-06	7.66E-07	7.72E-06	6.74E-05	1.95E-05	6.81E-05	6.78E-07	8.84E-08	1.98E-05	8.54E-05	2.69E-04

TRC

Table C.2-1 TIRE CUT FTIR DATA

lb/ft2 Rubber

	Inorganics			Organics								
	Carbon Monoxide	Sulfur Dioxide	Ammonia	Carbonyl Sulfide	Methanol	Carbon Disulfide	t-Butyl Amine	Methane	Ethylene	Ethanol	Other	TOTAL
Lab Cut No. 1	3.72E-07	1.43E-07	5.43E-07	8.57E-08	ND	5.86E-06	1.66E-06	ND	2.29E-07	6.60E-06	4.37E-05	5.82E-05
Lab Cut No. 2	1.08E-06	2.10E-07	7.61E-07	1.84E-07	ND	5.17E-06	3.60E-06	2.62E-08	7.87E-08	1.12E-05	8.06E-05	8.08E-05
Lab Cut No. 3	1.75E-06	4.78E-06	4.41E-06	1.67E-06	ND	2.60E-05	3.47E-05	1.88E-07	1.89E-04	3.73E-05	6.21E-05	3.50E-04
Lab Cut No. 4	8.21E-07	4.05E-06	4.98E-07	2.05E-06	1.81E-05	4.77E-05	4.43E-05	1.47E-07	1.61E-06	1.52E-06	3.69E-05	1.52E-04
Lab Cut No. 5	9.02E-07	ND	ND	ND	1.04E-05	ND	ND	ND	ND	ND	9.02E-06	1.94E-05
Lab Cut No. 6	8.50E-07	8.23E-08	8.23E-08	3.84E-07	5.62E-06	1.42E-05	7.65E-06	5.48E-08	2.88E-07	5.21E-07	1.43E-05	4.29E-05
Lab Cut No. 7	2.48E-06	2.63E-07	7.00E-07	2.48E-06	1.79E-05	6.70E-05	4.87E-05	1.17E-07	8.75E-08	ND	4.61E-05	1.82E-04
Lab Cut No. 8	7.36E-07	1.60E-06	4.48E-07	4.35E-06	2.05E-05	3.39E-05	2.98E-05	1.28E-07	5.12E-08	1.89E-06	4.67E-05	1.37E-04
Lab Cut No. 9	2.75E-06	3.82E-06	5.23E-07	1.99E-05	3.82E-05	1.96E-04	2.02E-05	1.93E-07	4.13E-07	3.01E-05	1.67E-04	4.73E-04
Lab Cut No. 10	2.15E-06	4.20E-07	7.87E-08	1.08E-05	4.49E-06	2.84E-05	4.22E-05	2.89E-06	1.97E-07	3.39E-05	8.48E-05	2.08E-04
Lab Cut No. 11	1.25E-06	6.48E-07	3.36E-07	8.26E-06	2.71E-05	5.44E-05	1.16E-05	4.80E-08	3.36E-07	1.93E-05	5.88E-05	1.80E-04
Lab Cut No. 12	2.86E-06	9.32E-08	5.91E-07	7.86E-06	3.07E-05	5.38E-05	4.43E-05	ND	1.09E-07	2.83E-06	6.34E-05	2.03E-04
Lab Cut No. 13	3.32E-06	2.96E-07	2.60E-06	1.88E-06	4.13E-05	1.59E-05	6.20E-05	1.64E-07	1.81E-07	ND	2.11E-04	3.32E-04
Lab Cut No. 14	1.66E-06	ND	1.06E-06	4.25E-07	2.01E-05	7.82E-06	2.24E-05	3.54E-08	2.48E-07	ND	7.36E-05	1.25E-04
Lab Cut No. 15	3.25E-06	3.31E-07	1.99E-06	9.61E-07	3.53E-05	1.34E-05	4.75E-05	1.66E-07	6.63E-08	ND	1.51E-04	2.48E-04
Lab Cut No. 16	3.59E-06	6.76E-06	2.15E-06	1.60E-05	6.68E-05	1.26E-04	7.14E-05	1.03E-06	2.24E-07	3.33E-05	1.11E-04	4.25E-04
Lab Cut No. 17	2.23E-06	5.58E-07	1.94E-06	7.81E-06	3.54E-05	4.94E-05	5.08E-05	2.06E-07	1.47E-08	ND	5.02E-05	1.94E-04
Lab Cut No. 18	1.31E-06	ND	2.13E-06	1.06E-05	4.92E-05	8.00E-05	7.88E-05	1.72E-07	3.44E-07	4.44E-06	4.06E-05	2.64E-04
Lab Cut No. 19	2.81E-06	ND	3.53E-06	2.02E-05	1.13E-04	1.74E-04	1.35E-04	8.17E-07	3.27E-07	1.65E-05	1.19E-04	5.80E-04
Lab Cut No. 20	3.53E-06	7.94E-06	5.58E-07	9.93E-06	2.74E-05	3.79E-05	3.11E-05	5.31E-08	2.79E-06	2.36E-06	3.56E-05	1.47E-04
Lab Cut No. 21	3.48E-06	2.95E-07	7.76E-07	1.50E-05	6.03E-05	7.26E-05	5.64E-05	1.34E-07	9.37E-08	1.15E-05	8.57E-05	3.02E-04
Lab Cut No. 22	3.98E-05	ND	7.68E-07	1.54E-05	7.21E-05	8.50E-05	6.10E-05	1.32E-07	1.19E-07	1.10E-05	6.30E-05	3.08E-04
Lab Cut No. 23	2.79E-06	ND	4.32E-07	7.50E-06	7.27E-05	3.25E-05	8.42E-05	5.31E-07	3.32E-08	1.63E-05	1.12E-04	3.05E-04
Lab Cut No. 24	5.81E-06	ND	7.50E-07	9.44E-06	9.08E-05	2.41E-05	8.86E-05	4.06E-07	1.56E-07	1.45E-05	1.01E-04	3.29E-04
Lab Cut No. 25	1.30E-05	2.82E-07	6.91E-06	3.49E-05	9.52E-05	1.76E-04	1.44E-04	1.13E-06	1.90E-07	ND	2.35E-04	6.87E-04
Lab Cut No. 26	7.48E-06	ND	5.03E-06	2.10E-05	5.37E-05	8.83E-05	1.43E-04	8.90E-07	1.11E-06	ND	2.70E-04	5.76E-04
Lab Cut No. 27	8.23E-06	ND	5.46E-06	2.48E-05	6.02E-05	1.11E-04	8.68E-05	7.24E-07	3.62E-07	ND	1.39E-04	4.23E-04
Lab Cut No. 28	3.11E-06	2.36E-06	6.51E-07	6.56E-06	5.73E-05	1.66E-05	5.79E-05	5.76E-07	7.52E-08	1.68E-05	7.27E-05	2.28E-04

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SECTION D

AUTOCLAVE CURING

TRC

Section D

Autoclave Curing

Table Number	Title	No. of Pages
D.1-1	Autoclave Summary - Blowdown, Cooldown, and Water Trap	1
D.1-2	Autoclave Speciated Semivolatiles Summary - Cooldown	9
D.1-3	Autoclave Speciated Semivolatiles Summary - Blowdown	9
D.1-4	Autoclave Speciated Semivolatiles Summary - Water Trap	9
D.1-5	Autoclave Speciated Volatiles Summary - Cooldown Gas	12
D.1-6	Autoclave Speciated Volatiles Summary - Blowdown Gas	15
D.1-7	Autoclave Speciated Volatiles Summary - Blowdown Liquid	6
D.1-8	Autoclave Speciated Volatiles Summary - Water Trap Liquid	6
D.1-9	Autoclave Sulfur Summary - Cooldown	1
D.1-10	Autoclave Sulfur Summary - Blowdown	1
D.1-11	Autoclave Amines Results - Cooldown	1
D.1-12	Autoclave POM Train Results - Cooldown	1

TRC

Table D.1 - 1 Autoclave Summary
Blowdown, Cooldown, and Water Trap

Compound No:	4	5	6	8	9*	9	11	15	18	21	22
Rubber Weight, Before Cure (lbs)	151.02	156.12	125.66	104.21	94.54	152.00	156.32	153.36	145.52	151.68	154.30
Rubber Weight, After Cure (lbs)	151.16	156.14	126.86	104.28	94.74	153.14	157.10	153.11	146.98	152.32	154.26
Rubber Weight, Gain/Loss (lbs)	0.14	0.02	1.2	0.07	0.2	1.14	0.78	-0.25	1.46	0.64	-0.04
Autoclave Chamber Temp. (°F)	340	339	340	340	340	340	339	340	340	340	340
Autoclave Chamber Pressure (PSIG)	119	114	119	119	120	119	109	111	118	113	119
Total VOCs (ppm)	18.52	20.42	15.47	6.32	19.08	41.87	10.83	2.68	10.68	26.48	12.87
Total VOCs (lbs/hr)	1.85E-02	1.78E-02	1.52E-02	5.36E-03	1.85E-02	4.15E-02	9.32E-03	3.74E-03	1.06E-02	2.26E-02	1.28E-02
Total VOCs (lbs/lb rubber)	1.61E-04	1.78E-04	1.33E-04	5.42E-05	1.63E-04	3.61E-04	9.32E-05	7.34E-05	9.27E-05	2.26E-04	1.11E-04
Standard Deviation (lbs/lb rubber)	1.56E-05	3.20E-05	2.68E-05	1.30E-05	2.52E-04	1.49E-05	2.33E-05	2.18E-05	9.07E-06	2.08E-05	1.32E-05
Total Speciated Semivolatiles (lbs/hr) - Detected	1.61E-02	7.18E-03	4.62E-02	7.82E-04	8.71E-02	3.94E-02	9.31E-04	7.08E-03	2.64E-02	1.48E-02	2.52E-03
Total Speciated Semi volatiles (lbs/lb rubber) - Detected	1.78E-04	9.15E-05	6.06E-04	1.34E-05	8.11E-04	4.90E-04	1.02E-04	8.54E-05	2.01E-04	1.25E-04	2.17E-05
Total Speciated Semi volstiles (lbs/lb rubber) - with non-detects	< 1.79E-04	< 9.32E-05	< 6.08E-04	< 1.82E-05	< 8.21E-04	< 4.98E-04	< 1.04E-04	< 8.73E-05	< 2.02E-04	< 1.28E-04	< 2.36E-05
Total Speciated Volstiles (lbs/hr) - Detected	5.34E-02	6.75E-02	2.62E-02	5.77E-02	3.99E-02	3.16E-02	3.67E-02	8.26E-02	3.00E-01	2.86E-01	3.09E-02
Total Speciated Volstiles (lbs/lb rubber) - Detected	3.99E-04	4.68E-04	2.39E-04	6.35E-04	4.05E-04	3.25E-04	2.42E-04	4.20E-04	1.85E-03	1.82E-03	2.14E-04
Total Speciated Volstiles (lbs/lb rubber) - with non-detects	< 4.07E-04	< 4.79E-04	< 2.46E-04	< 6.67E-04	< 4.12E-04	< 3.33E-04	< 2.54E-04	< 4.36E-04	< 1.89E-03	< 1.84E-03	< 2.18E-04
Total Sulfur (lbs/hr) - Detected a	1.19E-04	3.99E-04	1.12E-04	3.46E-01	8.01E-04	2.27E-04	2.92E-02	5.46E-02	7.43E-03	1.98E-04	2.94E-04
Total Sulfur (lbs/lb rubber) - Detected	6.69E-07	1.90E-06	8.29E-07	2.85E-03	5.23E-06	1.47E-06	1.44E-04	1.98E-04	6.85E-05	8.94E-07	1.82E-06
Total Sulfur (lbs/lb rubber) - with non-detects	< 3.04E-06	< 3.11E-06	< 2.79E-06	< 2.85E-03	< 6.54E-06	< 3.13E-06	< 1.46E-04	< 1.99E-04	< 7.07E-05	< 1.94E-06	< 3.33E-06
Amines (μg/m³) - Detected	0	0.47	0	10.27	0	0	0	0	8.26	0	4.80
Amines (lb/hr) - Detected	0	1.53E-07	0	3.35E-06	0	0	0	0	3.16E-06	0	1.81E-06
Amines (lb/lb rubber) - Detected	0	1.96E-09	0	5.89E-08	0	0	0	0	3.25E-08	0	1.76E-08
Amines (lb/lb rubber) - with non-detects	< 4.29E-08	< 2.86E-08	< 4.73E-08	< 9.42E-08	< 7.10E-08	< 4.69E-08	< 3.61E-08	< 5.11E-08	< 1.80E-07	< 3.19E-08	< 5.18E-08
POM (mg/m³) - Detected	23.08	23.30	22.89	1.49	2.26	12.00	13.71	0.37	6.39	2.59	0.80
POM (lb/hr) - Detected	8.82E-03	7.59E-03	8.75E-03	4.86E-04	8.65E-04	4.54E-03	4.47E-03	2.24E-04	2.44E-03	8.44E-04	3.02E-04
POM (lb/lb rubber) - Detected	1.02E-04	9.73E-05	1.04E-04	8.16E-06	1.14E-05	5.23E-05	4.29E-05	2.19E-06	2.52E-05	9.74E-06	2.94E-06

* - Compound for this run had been previously extruded at a temperature of approximately 260 degrees F. All other rubber compounds cured in these autoclave test runs were unextruded strips, processed by internal mixer and drop mill only.

a includes blowdown and cooldown only

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Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
Pyridine	110-86-1	14.09	6.50	< 3.28	< 4.85	< 4.00	< 2.68	< 8.70	2.31	< 1.74	< 8.06	< 3.31
Phenol	108-95-2	< 1.54	27.15	< 1.68	8.29	54.31	64.04	11.31	12.92	2.10	16.50	< 2.49
bis(2-Chloroethyl)ether	111-44-4	< 2.04	< 3.98	< 2.22	< 5.08	< 4.05	< 2.72	< 4.62	< 1.22	< 1.80	< 4.29	< 3.35
2-Chlorophenol	95-57-8	< 1.27	< 2.63	< 1.38	< 3.36	< 2.99	< 2.01	< 3.38	< 0.89	< 1.31	< 3.14	< 2.48
1,3-Dichlorobenzene	541-73-1	< 1.09	< 2.39	< 1.18	< 3.05	< 2.79	< 1.87	< 3.34	< 0.88	< 1.27	< 3.10	< 2.30
1,4-Dichlorobenzene	106-46-7	2.84	2.91	1.50	2.92	5.68	2.29	2.92	6.29	0.61	1.00	1.02
1,2-Dichlorobenzene	95-50-1	< 1.14	< 2.62	< 1.24	< 3.33	< 2.98	< 2.00	< 3.17	< 0.83	< 1.37	< 2.94	< 2.46
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.26	< 3.87	< 2.47	< 4.93	< 3.19	< 2.14	< 3.13	< 0.82	< 1.42	< 2.90	< 2.63
Benzyl alcohol	100-51-6	7.30	3.60	< 2.44	2.17	< 5.20	< 3.49	< 5.76	< 1.52	< 2.27	< 5.34	4.43
2-Methylphenol	95-48-7	< 1.79	0.75	< 1.95	1.21	< 3.88	< 2.60	< 4.70	< 1.24	< 1.67	< 4.36	< 3.20
3/4-Methylphenol	108-39-4/106-44-5	0.64	< 3.26	< 1.77	0.48	< 3.57	< 2.39	< 4.47	< 1.18	< 1.55	< 4.15	< 2.95
N-Nitroso-di-n-propylamine	621-64-7	< 2.73	< 5.38	< 2.97	< 6.85	< 5.50	< 3.69	< 5.51	< 1.45	< 2.52	< 5.11	< 4.55
Hexachloroethane	67-72-1	< 2.24	< 4.68	< 2.44	< 5.96	< 5.59	< 3.75	< 6.17	20.94	< 2.51	< 5.72	< 4.62
Nitrobenzene	98-95-3	< 1.49	< 2.41	< 1.62	< 3.72	< 3.02	< 2.00	< 3.24	< 0.89	< 1.42	< 2.99	< 2.44
Isophorone	78-59-1	24.85	21.84	< 0.88	< 2.22	3.51	< 1.18	< 1.89	< 0.52	< 0.80	< 1.75	23.53
2-Nitrophenol	88-75-5	< 1.90	< 3.91	< 2.07	< 6.03	< 5.60	< 3.72	< 5.44	< 1.50	< 2.52	< 5.02	< 4.53
2,4-Dimethylphenol	105-67-9	< 1.55	< 2.69	< 1.69	< 4.15	< 3.39	< 2.25	< 4.20	< 1.16	< 1.45	< 3.88	< 2.74
bis(2-Chloroethoxy)methane	111-91-1	< 1.59	< 2.69	< 1.74	< 4.15	< 3.27	< 2.17	< 3.60	< 0.99	< 1.49	< 3.32	< 2.65
Benzoic acid	65-85-0	0.00	3.08	0.99	21.05	< 8.20	< 5.45	21.29	31.94	0.00	< 7.70	14.11
2,4-Dichlorophenol	120-83-2	< 1.30	< 2.68	< 1.41	< 4.13	< 3.51	< 2.34	< 4.05	< 1.12	< 1.58	< 3.74	< 2.85
1,2,4-Trichlorobenzene	120-82-1	< 1.17	< 2.34	< 1.28	< 3.61	< 2.93	< 1.95	< 3.43	< 0.95	< 1.33	< 3.17	< 2.37
Naphthalene	91-20-3	34.93	47.37	77.81	13.46	13.86	13.34	7.06	18.15	7.91	10.51	33.75
4-Chloroaniline	106-47-8	2.68	< 1.98	< 1.17	< 3.05	< 2.55	< 1.69	< 2.85	< 0.79	< 1.16	< 2.64	< 2.06
Hexachlorobutadiene	87-68-3	< 1.69	< 3.86	< 1.85	< 5.95	30.35	32.10	< 5.08	< 1.40	< 2.13	< 4.69	< 3.61
4-Chloro-3-methylphenol	59-50-7	< 1.75	< 2.57	< 1.91	< 3.95	< 3.40	< 2.26	< 4.71	< 1.30	< 1.54	< 4.35	< 2.75
2-Methylnaphthalene	91-57-6	12.24	198.66	16.14	5.93	7.87	6.41	< 1.91	2.49	0.98	1.05	40.74
Hexachlorocyclopentadiene	77-47-4	< 1.42	< 4.96	< 1.76	< 7.48	< 6.17	< 4.04	< 7.06	< 1.76	< 2.43	< 5.97	< 4.76
2,4,6-Trichlorophenol	88-06-2	< 1.53	< 3.51	< 1.89	< 5.29	< 4.67	< 3.06	< 5.75	< 1.43	< 1.98	< 4.86	< 3.60
2,4,5-Trichlorophenol	95-95-4	< 1.49	< 3.13	< 1.84	< 4.72	< 4.23	< 2.77	< 5.57	< 1.39	< 1.74	< 4.71	< 3.26
2-Chloronaphthalene	91-58-7	< 0.52	< 1.20	< 0.64	< 1.81	< 1.77	< 1.16	< 1.90	< 0.48	< 0.77	< 1.61	< 1.37
2-Nitroaniline	88-74-4	< 2.29	< 3.52	< 2.83	< 5.31	< 5.09	< 3.33	< 6.07	< 1.51	< 2.18	< 5.14	< 3.92
Dimethylphthalate	131-11-3	< 0.43	< 0.87	< 0.53	0.53	< 1.44	< 0.94	< 1.75	< 0.44	< 0.60	< 1.48	< 1.11
2,6-Dinitrotoluene	606-20-2	< 1.77	< 3.68	< 2.19	< 5.55	< 5.96	< 3.91	< 7.69	< 1.92	< 2.44	< 6.51	< 4.59
2,4-Dinitrotoluene	121-14-2	< 1.35	< 2.32	< 1.67	< 3.50	< 3.79	< 2.48	< 5.23	< 1.31	< 1.63	< 4.42	< 2.92
Acenaphthylene	208-96-8	11.45	4.01	32.79	2.85	1.83	0.95	< 1.30	< 0.33	< 0.45	< 1.10	14.42
3-Nitroaniline	99-09-2	< 1.99	0.64	< 2.45	< 4.62	< 5.21	< 3.41	< 7.04	< 1.75	< 2.26	< 5.95	< 4.02
Acenaphthene	83-32-9	< 0.57	6.09	< 0.70	< 1.85	< 1.98	< 1.30	< 2.29	1.19	< 0.83	< 1.94	2.87

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
2,4-Dinitrophenol	105-67-9	< 5.05	< 8.55	< 6.23	< 12.89	< 14.94	< 9.79	< 25.08	< 6.25	< 5.75	< 21.21	< 11.52
4-Nitrophenol	100-02-7	< 3.64	< 4.53	< 4.48	< 6.82	< 7.83	< 5.13	< 12.54	< 3.12	< 3.47	< 10.61	< 6.04
Dibenzofuran	132-64-9	2.32	7.95	2.23	0.49	0.91	0.89	< 1.44	0.65	< 0.51	< 1.21	< 0.95
Diethylphthalate	84-66-2	< 0.37	< 0.77	< 0.46	0.88	1.91	< 0.84	< 1.46	< 0.36	< 0.53	< 1.23	< 0.99
4-Chlorophenyl-phenylether	70005-72-3	< 0.91	< 1.96	< 1.12	< 2.95	< 2.76	< 1.81	< 3.56	< 0.88	< 1.15	< 3.01	< 2.13
Fluorene	86-73-7	4.06	7.94	28.77	1.07	< 1.57	< 1.02	< 1.94	0.67	0.39	< 1.64	4.79
4-Nitroaniline	100-01-6	< 2.07	< 2.75	< 2.55	< 4.14	< 4.36	< 2.85	< 8.20	< 2.05	< 1.87	< 6.94	< 3.36
4,6-Dinitro-2-methylphenol	534-52-1	< 3.96	< 5.28	< 4.56	< 7.82	< 7.90	< 5.13	< 14.87	< 4.07	< 2.93	< 13.62	< 5.69
4-Bromophenyl-phenylether	101-55-3	< 1.85	< 3.57	< 2.13	< 5.30	< 5.41	< 3.51	< 6.29	< 1.73	< 2.01	< 5.76	< 3.89
Hexachlorobenzene	118-74-1	< 1.49	< 2.85	< 1.72	< 4.23	< 4.12	< 2.68	< 5.38	< 1.47	< 1.56	< 4.93	< 2.97
Pentachlorophenol	87-86-5	< 3.01	< 4.58	< 3.47	< 6.79	< 6.56	< 4.26	< 12.85	< 3.52	< 2.26	< 11.77	< 4.72
Phenanthrene	85-01-8	6.74	6.40	11.41	5.99	7.28	11.38	1.20	1.86	< 0.39	1.88	12.07
Anthracene	120-12-7	< 0.44	< 0.64	< 0.51	< 0.94	< 1.04	< 0.67	< 1.42	0.43	< 0.39	< 1.30	< 0.75
Di-n-butylphthalate	84-74-2	0.55	0.00	4.25	0.00	7.62	11.69	0.00	39.75	0.00	22.55	32.57
Fluoranthene	206-44-0	2.39	0.32	2.79	1.89	3.23	6.61	0.65	0.60	0.73	0.66	7.32
Pyrene	129-00-0	22.46	1.46	21.22	6.59	16.96	33.69	4.34	3.73	4.06	4.96	34.77
Butylbenzylphthalate	85-68-7	< 1.95	< 0.80	< 2.02	< 1.02	< 1.54	< 0.91	< 3.83	< 0.94	0.41	< 3.62	< 1.06
3,3'-Dichlorobenzidine	91-94-1	< 5.47	< 1.88	< 5.69	< 2.39	< 3.94	< 2.34	< 10.73	< 2.64	< 1.53	< 10.17	< 2.71
bis(2-Ethylhexyl)phthalate	117-81-7	9.73	10.89	90.98	5.14	5.41	9.00	29.47	74.47	1.04	180.86	5.84
Benzo(a)anthracene	56-55-3	< 1.51	< 0.58	< 1.57	< 0.74	< 1.04	< 0.62	< 3.09	< 0.76	< 0.40	< 2.92	< 0.72
Chrysene	218-01-9	< 1.66	< 0.63	< 1.73	< 0.81	< 1.10	< 0.65	< 3.59	< 0.88	< 0.44	< 3.40	< 0.76
Di-n-octylphthalate	117-84-0	< 1.09	< 0.38	< 1.23	< 0.49	< 0.66	< 0.39	< 2.58	0.94	< 0.24	< 2.50	< 0.44
Benzo(b)fluoranthene	205-99-2	< 2.04	< 0.55	< 2.31	< 0.69	< 1.06	< 0.62	< 5.10	< 1.05	< 0.39	< 4.94	< 0.71
Benzo(k)fluoranthene	207-08-9	< 2.01	< 0.58	< 2.29	< 0.73	< 1.14	< 0.67	< 5.48	< 1.13	< 0.43	< 5.30	< 0.76
Benzo(a)pyrene	50-32-8	< 2.28	< 0.58	< 2.59	< 0.73	< 1.21	< 0.70	< 5.67	< 1.17	< 0.45	< 5.49	< 0.80
Indeno(1,2,3-cd)pyrene	193-39-5	< 2.97	< 0.49	< 3.38	< 0.63	< 1.09	< 0.64	< 7.01	< 1.44	< 0.42	< 6.79	< 0.73
Dibenz(a,h)anthracene	53-90-3	< 3.79	< 0.63	< 4.31	< 0.80	< 1.41	< 0.82	< 9.51	< 1.96	< 0.53	< 9.21	< 0.94
Benzo(g,h,i)perylene	191-24-2	< 3.43	< 0.56	< 3.90	< 0.70	< 1.22	< 0.71	< 8.10	< 1.66	< 0.46	< 7.84	< 0.81
n-Nitrosodimethylamine	62-75-9	< 2.48	< 7.86	< 2.93	< 10.01	< 7.25	< 4.87	< 4.39	< 3.51	< 3.07	< 3.75	< 6.00
Cumene	98-82-8	9.20	7.30	4.71	5.30	56.39	123.71	0.98	5.87	0.00	5.96	4.73
Aniline	62-53-3	478.06	240.16	835.53	< 3.71	38.55	3.95	55.79	< 0.83	75.20	< 1.40	471.80
Benzyl Chloride	100-44-7	< 0.73	< 1.99	< 0.86	< 2.53	< 2.01	< 1.35	< 1.24	< 0.54	< 0.88	< 1.06	< 1.66
Acetophenone	98-86-2	38.19	59.03	82.50	7.29	39487.26	35405.25	3.81	7.20	7.76	14.69	122.31
n-Nitrosomorpholine	59-89-2	< 1.79	< 5.36	< 2.11	< 6.82	< 5.06	< 3.39	< 3.09	< 1.16	< 2.19	< 2.63	< 4.18
o-Toluidine	95-53-4	8.85	< 2.69	721.93	< 3.43	< 2.82	< 1.89	< 1.69	< 0.92	4.22	< 1.44	18.57
N,N-Dimethylaniline	121-69-7	< 0.77	< 1.91	< 0.97	< 2.94	< 2.48	< 1.65	< 1.34	< 0.76	< 1.01	< 1.10	< 2.00

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
1,2-Dibromo-3-chloropropane	96-12-8	< 2.67	< 6.60	< 3.15	< 8.41	< 7.44	< 4.99	< 4.43	< 2.23	< 3.16	< 3.77	< 6.15
o-Anisidine	90-04-0	< 1.46	< 3.55	< 1.83	< 5.48	< 5.12	< 3.40	< 2.68	< 1.41	< 2.06	< 2.20	< 4.14
1,4-Phenylenediamine	106-50-3	< 2.05	< 3.97	< 2.58	< 6.12	< 6.62	< 4.40	< 3.18	< 2.34	< 3.03	< 2.61	< 5.36
N,N-Diethylaniline	91-66-7	< 0.76	< 1.89	< 0.90	< 2.40	< 2.08	< 1.40	< 1.24	< 0.75	< 0.89	< 1.06	< 1.72
a,a,a-Trichlorotoluene	98-07-7	< 0.87	< 2.00	< 1.09	< 3.08	< 2.70	< 1.79	< 1.50	< 0.71	< 1.12	< 1.23	< 2.18
Hydroquinone	123-31-9	< 1.23	< 3.09	< 1.55	< 4.77	< 5.10	< 3.39	< 2.68	< 1.75	< 2.10	< 2.20	< 4.12
2-Chloroacetophenone	1341-24-8	< 0.54	1.81	< 0.68	< 2.05	< 1.81	< 1.20	84.90	< 0.61	< 0.73	< 0.79	< 1.47
Biphenyl	92-52-4	9.57	54.31	34.40	2.89	15.27	2.53	< 1.06	< 0.56	0.54	< 0.87	62.47
Trifluralin	1582-09-8	< 2.03	< 5.37	< 2.57	< 8.09	< 7.71	< 5.05	< 3.40	< 3.16	< 2.79	< 2.80	< 5.94
4-Aminobiphenyl	92-67-1	< 0.44	< 1.01	< 0.53	< 1.50	< 1.71	< 1.11	< 0.81	< 0.65	< 0.59	< 0.64	< 1.23
Pentachloronitrobenzene	82-68-8	< 3.33	< 6.77	< 4.01	< 10.04	< 12.45	< 8.08	< 6.06	< 3.52	< 4.18	< 4.75	< 8.97
4-Nitrobiphenyl	92-93-3	< 0.78	< 1.72	< 0.94	< 2.55	< 2.98	< 1.93	< 1.52	< 1.34	< 1.06	< 1.19	< 2.14
Benzidine	92-87-5	< 0.75	88.07	< 0.76	< 1.45	< 2.79	< 1.66	< 1.51	< 1.68	< 0.98	< 1.29	< 1.92
4,4'-Methylenedianiline	101-77-9	< 1.38	< 2.52	< 1.40	< 3.20	< 4.34	< 2.58	< 2.04	< 2.68	< 1.61	< 1.74	< 2.98
Dimethylaminoazobenzene	60-11-7	< 1.02	< 1.56	< 1.03	< 1.98	< 3.06	< 1.82	< 1.63	< 1.88	< 1.18	< 1.39	< 2.11
3,3'-Dimethylbenzidine	119-93-7	< 0.73	< 1.24	< 0.73	< 1.58	< 2.30	< 1.37	< 1.16	< 1.52	< 0.81	< 0.99	< 1.58
3,3'-Dimethoxybenzidine	119-90-4	< 1.99	< 3.46	< 2.01	< 4.40	< 6.27	< 3.73	< 3.20	< 4.47	< 2.21	< 2.74	< 4.32
Methylene bis-chloroaniline	101-14-4	< 2.41	< 4.15	< 2.43	< 5.27	< 7.68	< 4.56	< 3.95	< 5.18	< 2.74	< 3.38	< 5.28
3-Pseudolehyde	498-60-2	< 3.79	< 3.95	< 4.13	< 9.26	< 6.92	< 4.64	< 9.54	< 2.52	< 2.91	< 8.85	< 5.72
2-Pseudolehyde	98-01-1	< 3.02	8.69	< 3.29	< 7.71	< 6.04	< 4.05	< 7.78	< 2.05	< 2.32	< 7.22	< 5.00
Cyclohexylamine	108-91-8	1039.92	< 6.17	8411.08	< 5.97	< 5.31	< 3.56	< 5.15	< 1.36	< 2.43	< 4.78	< 4.39
N-Nitrosodiethylamine	55-18-5	< 4.08	< 4.25	< 4.44	< 10.58	< 7.95	< 5.33	< 9.81	< 2.58	< 3.09	< 9.10	< 6.57
Cyclohexanone	108-94-1	2841.77	1010.26	3676.23	< 5.82	22.14	8.92	21.74	< 1.07	57.39	< 3.77	29.09
1,3-Cyclooctadiene	1700-10-3	< 1.85	< 1.93	< 2.02	4.07	2.05	4.07	< 4.14	< 1.09	< 1.61	< 3.84	< 3.24
1,5-Cyclooctadiene	111-78-4	< 4.02	< 4.19	< 4.38	< 10.58	< 8.56	< 5.74	< 8.63	< 2.28	< 3.39	< 8.00	< 7.08
Camphene	79-92-5	< 2.06	< 2.15	< 2.25	< 5.22	< 3.99	< 2.67	< 4.55	< 1.20	< 1.62	< 4.21	< 3.29
Benzaldehyde	100-52-7	< 2.56	61.33	< 2.79	< 7.00	< 5.32	< 3.57	1.43	< 1.43	< 2.19	14.15	7.03
Benzonitrile	100-47-0	< 0.93	2.76	< 1.01	< 2.39	< 1.84	< 1.23	< 2.19	0.13	< 0.73	< 2.03	< 1.52
Isooctanol	26952-21-6	254.20	< 24.12	2037.88	< 68.65	414.99	255.96	30270.17	9952.71	6650.54	15186.22	147.48
1,2,4-Trimethylbenzene	95-63-6	117.62	59.02	67.20	34.64	26.43	25.25	8.44	17.34	0.00	23.04	22.71
3-Methylstyrene	100-80-1	4.06	2.56	3.10	< 3.34	< 2.75	< 1.85	1.17	3.72	0.00	4.34	< 2.27
4-Methylstyrene	622-97-9	1.71	1.12	1.98	< 3.68	< 2.99	< 2.00	< 3.19	2.90	0.00	3.49	< 2.47
4-Chlorostyrene	1073-67-2	< 1.34	< 1.40	< 1.47	< 4.04	< 3.31	< 2.22	11.50	< 0.93	< 1.36	< 3.26	< 2.74
1-Dodecene	112-41-4	< 7.21	< 6.96	< 7.86	< 22.38	< 17.42	< 11.57	< 20.33	83.83	< 6.72	< 18.77	< 14.09
Phthalimide	85-41-6	< 2.31	< 2.62	< 2.85	< 5.71	< 5.50	< 3.60	< 6.34	0.78	< 2.17	< 5.37	< 4.24
Diphenylamine	122-39-4	79.60	28.34	592.02	4.76	552.86	729.13	129.90	2.10	14.08	< 2.24	60.04
TOTAL Detected		5041.99	1982.33	16759.42	139.87	40776.67	36751.14	30668.07	10295.93	6827.97	15491.84	1178.45
TOTAL with non-detects		< 5198.30	< 2229.11	< 16946.37	< 594.14	< 41148.20	< 36996.31	< 31108.27	< 10426.62	< 6977.15	< 15901.75	< 1459.84

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 lbs/hr	Cmpd.#5 lbs/hr	Cmpd.#6 lbs/hr	Cmpd.#8 lbs/hr	Cmpd.#9* lbs/hr	Cmpd.#9 lbs/hr	Cmpd.#11 lbs/hr	Cmpd.#15 lbs/hr	Cmpd.#18 lbs/hr	Cmpd.#21 lbs/hr	Cmpd.#22 lbs/hr
Pyridine	110-86-1	5.33E-06	2.12E-06	< 1.25E-06	< 1.58E-06	< 1.53E-06	< 1.02E-06	< 2.83E-06	1.38E-06	< 6.63E-07	< 2.63E-06	< 1.25E-06
Phenol	108-95-2	< 5.83E-07	8.85E-06	< 6.41E-07	2.70E-06	2.08E-05	2.45E-05	3.69E-06	7.75E-06	8.03E-07	5.38E-06	< 9.43E-07
bis(2-Chloroethyl)ether	111-44-4	< 7.72E-07	< 1.30E-06	< 8.49E-07	< 1.65E-06	< 1.55E-06	< 1.04E-06	< 1.51E-06	< 7.30E-07	< 6.88E-07	< 1.40E-06	< 1.27E-06
2-Chlorophenol	95-57-8	< 4.79E-07	< 8.58E-07	< 5.26E-07	< 1.09E-06	< 1.14E-06	< 7.67E-07	< 1.10E-06	< 5.34E-07	< 5.02E-07	< 1.02E-06	< 9.37E-07
1,3-Dichlorobenzene	541-73-1	< 4.12E-07	< 7.80E-07	< 4.53E-07	< 9.94E-07	< 1.07E-06	< 7.14E-07	< 1.09E-06	< 5.30E-07	< 4.85E-07	< 1.01E-06	< 8.72E-07
1,4-Dichlorobenzene	106-46-7	1.07E-06	9.48E-07	5.75E-07	9.50E-07	2.17E-06	8.73E-07	9.52E-07	3.77E-06	2.34E-07	3.26E-07	3.85E-07
1,2-Dichlorobenzene	95-50-1	< 4.31E-07	< 8.53E-07	< 4.73E-07	< 1.09E-06	< 1.14E-06	< 7.63E-07	< 1.03E-06	< 5.00E-07	< 5.24E-07	< 9.57E-07	< 9.32E-07
2,2'-oxybis(1-Chloropropane)	108-60-1	< 8.56E-07	< 1.26E-06	< 9.42E-07	< 1.61E-06	< 1.22E-06	< 8.16E-07	< 1.02E-06	< 4.93E-07	< 5.42E-07	< 9.45E-07	< 9.96E-07
Benzyl alcohol	100-51-6	2.76E-06	1.17E-06	< 9.33E-07	7.09E-07	< 1.99E-06	< 1.33E-06	< 1.88E-06	< 9.10E-07	< 8.66E-07	< 1.74E-06	1.68E-06
2-Methylphenol	95-48-7	< 6.79E-07	2.45E-07	< 7.46E-07	3.94E-07	< 1.48E-06	< 9.93E-07	< 1.53E-06	< 7.45E-07	< 6.38E-07	< 1.42E-06	< 1.21E-06
3/4-Methylphenol	108-39-4/106-44-5	2.40E-07	< 1.06E-06	< 6.78E-07	1.57E-07	< 1.36E-06	< 9.15E-07	< 1.46E-06	< 7.07E-07	< 5.92E-07	< 1.35E-06	< 1.12E-06
N-Nitroso-di-n-propylamine	621-64-7	< 1.03E-06	< 1.75E-06	< 1.14E-06	< 2.23E-06	< 2.10E-06	< 1.41E-06	< 1.80E-06	< 8.69E-07	< 9.63E-07	< 1.67E-06	< 1.72E-06
Hexachloroethane	67-72-1	< 8.49E-07	< 1.52E-06	< 9.33E-07	< 1.94E-06	< 2.14E-06	< 1.43E-06	< 2.01E-06	1.26E-05	< 9.60E-07	< 1.86E-06	< 1.75E-06
Nitrobenzene	98-95-3	< 5.62E-07	< 7.86E-07	< 6.19E-07	< 1.21E-06	< 1.15E-06	< 7.66E-07	< 1.06E-06	< 5.34E-07	< 5.43E-07	< 9.75E-07	< 9.25E-07
Isophorone	78-59-1	9.40E-06	7.12E-06	< 3.38E-07	< 7.25E-07	1.34E-06	< 4.51E-07	< 6.18E-07	< 3.12E-07	< 3.04E-07	< 5.71E-07	8.90E-06
2-Nitrophenol	88-75-5	< 7.18E-07	< 1.28E-06	< 7.92E-07	< 1.97E-06	< 2.14E-06	< 1.42E-06	< 1.77E-06	< 8.99E-07	< 9.63E-07	< 1.64E-06	< 1.72E-06
2,4-Dimethylphenol	105-67-9	< 5.87E-07	< 8.78E-07	< 6.47E-07	< 1.35E-06	< 1.30E-06	< 8.60E-07	< 1.37E-06	< 6.96E-07	< 5.55E-07	< 1.26E-06	< 1.04E-06
bis(2-Chloroethoxy)methane	111-91-1	< 6.02E-07	< 8.78E-07	< 6.63E-07	< 1.35E-06	< 1.25E-06	< 8.31E-07	< 1.17E-06	< 5.94E-07	< 5.68E-07	< 1.08E-06	< 1.00E-06
Benzoic acid	65-85-0	0.00E+00	1.00E-06	3.77E-07	6.86E-06	< 3.13E-06	< 2.08E-06	6.94E-06	1.91E-05	0.00E+00	< 2.51E-06	5.34E-06
2,4-Dichlorophenol	120-83-2	< 4.91E-07	< 8.73E-07	< 5.40E-07	< 1.35E-06	< 1.34E-06	< 8.93E-07	< 1.32E-06	< 6.69E-07	< 6.05E-07	< 1.22E-06	< 1.08E-06
1,2,4-Trichlorobenzene	120-82-1	< 4.44E-07	< 7.63E-07	< 4.88E-07	< 1.18E-06	< 1.12E-06	< 7.44E-07	< 1.12E-06	< 5.68E-07	< 5.07E-07	< 1.03E-06	< 8.98E-07
Naphthalene	91-20-3	1.32E-05	1.54E-05	2.97E-05	4.39E-06	5.29E-06	5.10E-06	2.30E-06	1.09E-05	3.02E-06	3.42E-06	1.28E-05
4-Chloroaniline	106-47-8	1.01E-06	< 6.45E-07	< 4.48E-07	< 9.94E-07	< 9.73E-07	< 6.46E-07	< 9.30E-07	< 4.74E-07	< 4.43E-07	< 8.59E-07	< 7.79E-07
Hexachlorobutadiene	87-68-3	< 6.40E-07	< 1.26E-06	< 7.06E-07	< 1.94E-06	1.16E-05	1.23E-05	< 1.66E-06	< 8.39E-07	< 8.12E-07	< 1.53E-06	< 1.36E-06
4-Chloro-3-methylphenol	59-50-7	< 6.62E-07	< 8.36E-07	< 7.30E-07	< 1.29E-06	< 1.30E-06	< 8.63E-07	< 1.53E-06	< 7.78E-07	< 5.90E-07	< 1.42E-06	< 1.04E-06
2-Methylnaphthalene	91-57-6	4.63E-06	6.47E-05	6.17E-06	1.93E-06	3.01E-06	2.45E-06	< 6.22E-07	1.49E-06	3.74E-07	3.41E-07	1.54E-05
Hexachlorocyclopentadiene	77-47-4	< 5.38E-07	< 1.62E-06	< 6.71E-07	< 2.44E-06	< 2.36E-06	< 1.54E-06	< 2.30E-06	< 1.05E-06	< 9.30E-07	< 1.95E-06	< 1.80E-06
2,4,6-Trichlorophenol	88-06-2	< 5.80E-07	< 1.14E-06	< 7.22E-07	< 1.73E-06	< 1.78E-06	< 1.17E-06	< 1.87E-06	< 8.57E-07	< 7.55E-07	< 1.58E-06	< 1.36E-06
2,4,5-Trichlorophenol	95-95-4	< 5.64E-07	< 1.02E-06	< 7.02E-07	< 1.54E-06	< 1.62E-06	< 1.06E-06	< 1.81E-06	< 8.31E-07	< 6.63E-07	< 1.53E-06	< 1.23E-06
2-Chloronaphthalene	91-58-7	< 1.96E-07	< 3.91E-07	< 2.43E-07	< 5.89E-07	< 6.78E-07	< 4.43E-07	< 6.20E-07	< 2.86E-07	< 2.94E-07	< 5.25E-07	< 5.18E-07
2-Nitroaniline	88-74-4	< 8.68E-07	< 1.15E-06	< 1.08E-06	< 1.73E-06	< 1.94E-06	< 1.27E-06	< 1.98E-06	< 9.06E-07	< 8.34E-07	< 1.67E-06	< 1.48E-06
Dimethylphthalate	131-11-3	< 1.62E-07	< 2.85E-07	< 2.02E-07	1.72E-07	< 5.50E-07	< 3.60E-07	< 5.71E-07	< 2.63E-07	< 2.29E-07	< 4.84E-07	< 4.19E-07
2,6-Dinitrotoluene	606-20-2	< 6.71E-07	< 1.20E-06	< 8.36E-07	< 1.81E-06	< 2.28E-06	< 1.49E-06	< 2.51E-06	< 1.15E-06	< 9.33E-07	< 2.12E-06	< 1.74E-06
2,4-Dinitrotoluene	121-14-2	< 5.11E-07	< 7.57E-07	< 6.37E-07	< 1.14E-06	< 1.45E-06	< 9.48E-07	< 1.70E-06	< 7.82E-07	< 6.22E-07	< 1.44E-06	< 1.10E-06
Acenaphthylene	208-96-8	4.33E-06	1.31E-06	1.25E-05	9.28E-07	6.99E-07	3.63E-07	< 4.25E-07	< 1.96E-07	< 1.74E-07	< 3.59E-07	5.46E-06
3-Nitroaniline	99-09-2	< 7.53E-07	2.08E-07	< 9.38E-07	< 1.51E-06	< 1.99E-06	< 1.30E-06	< 2.29E-06	< 1.05E-06	< 8.62E-07	< 1.94E-06	< 1.52E-06
Acenaphthene	83-32-9	< 2.16E-07	1.99E-06	< 2.68E-07	< 6.03E-07	< 7.58E-07	< 4.96E-07	< 7.46E-07	7.11E-07	< 3.17E-07	< 6.31E-07	1.09E-06

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 lbs/hr	Cmpd.#5 lbs/hr	Cmpd.#6 lbs/hr	Cmpd.#8 lbs/hr	Cmpd.#9* lbs/hr	Cmpd.#9 lbs/hr	Cmpd.#11 lbs/hr	Cmpd.#15 lbs/hr	Cmpd.#16 lbs/hr	Cmpd.#21 lbs/hr	Cmpd.#22 lbs/hr
2,4-Dinitrophenol	105-67-9	< 1.91E-06	< 2.79E-06	< 2.38E-06	< 4.20E-06	< 5.71E-06	< 3.74E-06	< 8.17E-06	< 3.75E-06	< 2.20E-06	< 6.91E-06	< 4.36E-06
4-Nitrophenol	100-02-7	< 1.38E-06	< 1.48E-06	< 1.71E-06	< 2.22E-06	< 2.99E-06	< 1.96E-06	< 4.09E-06	< 1.87E-06	< 1.32E-06	< 3.46E-06	< 2.28E-06
Dibenzofuran	132-64-9	8.78E-07	2.59E-06	8.54E-07	1.59E-07	3.48E-07	3.41E-07	< 4.68E-07	3.91E-07	< 1.94E-07	< 3.96E-07	< 3.60E-07
Diethylphthalate	84-66-2	< 1.42E-07	< 2.51E-07	< 1.77E-07	2.87E-07	7.32E-07	< 3.22E-07	< 4.75E-07	< 2.18E-07	< 2.02E-07	< 4.02E-07	< 3.75E-07
4-Chlorophenyl-phenylether	70005-72-3	< 3.44E-07	< 6.38E-07	< 4.29E-07	< 9.62E-07	< 1.05E-06	< 6.91E-07	< 1.16E-06	< 5.30E-07	< 4.40E-07	< 9.81E-07	< 8.05E-07
Fluorene	86-73-7	1.54E-06	2.59E-06	1.10E-05	3.49E-07	< 5.99E-07	< 3.91E-07	< 6.33E-07	3.99E-07	1.49E-07	< 5.36E-07	1.81E-06
4-Nitroaniline	100-01-6	< 7.82E-07	< 8.96E-07	< 9.74E-07	< 1.35E-06	< 1.66E-06	< 1.09E-06	< 2.67E-06	< 1.23E-06	< 7.14E-07	< 2.26E-06	< 1.27E-06
4,6-Dinitro-2-methylphenol	534-52-1	< 1.50E-06	< 1.72E-06	< 1.74E-06	< 2.55E-06	< 3.02E-06	< 1.96E-06	< 4.85E-06	< 2.44E-06	< 1.12E-06	< 4.44E-06	< 2.15E-06
4-Bromophenyl-phenylether	101-55-3	< 7.00E-07	< 1.17E-06	< 8.15E-07	< 1.73E-06	< 2.07E-06	< 1.34E-06	< 2.05E-06	< 1.03E-06	< 7.68E-07	< 1.88E-06	< 1.47E-06
Hexachlorobenzene	118-74-1	< 5.64E-07	< 9.30E-07	< 6.56E-07	< 1.38E-06	< 1.58E-06	< 1.02E-06	< 1.75E-06	< 8.84E-07	< 5.94E-07	< 1.61E-06	< 1.12E-06
Pentachlorophenol	87-86-5	< 1.14E-06	< 1.49E-06	< 1.33E-06	< 2.21E-06	< 2.51E-06	< 1.63E-06	< 4.19E-06	< 2.11E-06	< 8.62E-07	< 3.84E-06	< 1.79E-06
Phenanthrene	85-01-8	2.55E-06	2.09E-06	4.36E-06	1.95E-06	2.78E-06	4.35E-06	3.92E-07	1.12E-06	< 1.50E-07	6.12E-07	4.57E-06
Anthracene	120-12-7	< 1.66E-07	< 2.08E-07	< 1.93E-07	< 3.08E-07	< 3.96E-07	< 2.57E-07	< 4.64E-07	2.56E-07	< 1.48E-07	< 4.25E-07	< 2.83E-07
Di-n-butylphthalate	84-74-2	2.10E-07	0.00E+00	1.62E-06	0.00E+00	2.91E-06	4.47E-06	0.00E+00	2.38E-05	0.00E+00	7.35E-06	1.23E-05
Fluoranthene	206-44-0	9.02E-07	1.03E-07	1.07E-06	6.15E-07	1.23E-06	2.53E-06	2.13E-07	3.57E-07	2.80E-07	2.14E-07	2.77E-06
Pyrene	129-00-0	8.50E-06	4.75E-07	8.11E-06	2.15E-06	6.48E-06	1.29E-05	1.41E-06	2.24E-06	1.55E-06	1.62E-06	1.32E-05
Butylbenzylphthalate	85-68-7	< 7.36E-07	< 2.61E-07	< 7.72E-07	< 3.33E-07	< 5.87E-07	< 3.48E-07	< 1.25E-06	< 5.64E-07	1.58E-07	< 1.18E-06	< 4.00E-07
3,3'-Dichlorobenzidine	91-94-1	< 2.07E-06	< 6.14E-07	< 2.17E-06	< 7.80E-07	< 1.51E-06	< 8.94E-07	< 3.50E-06	< 1.58E-06	< 5.84E-07	< 3.31E-06	< 1.03E-06
bis(2-Ethylhexyl)phthalate	117-81-7	3.68E-06	3.55E-06	3.48E-05	1.68E-06	2.07E-06	3.44E-06	9.60E-06	4.46E-05	3.97E-07	5.89E-05	2.21E-06
Benzo(a)anthracene	56-55-3	< 5.70E-07	< 1.89E-07	< 5.99E-07	< 2.40E-07	< 3.98E-07	< 2.36E-07	< 1.01E-06	< 4.55E-07	< 1.52E-07	< 9.53E-07	< 2.71E-07
Chrysene	218-01-9	< 6.29E-07	< 2.07E-07	< 6.60E-07	< 2.63E-07	< 4.21E-07	< 2.49E-07	< 1.17E-06	< 5.30E-07	< 1.68E-07	< 1.11E-06	< 2.86E-07
Di-n-octylphthalate	117-84-0	< 4.12E-07	< 1.25E-07	< 4.72E-07	< 1.58E-07	< 2.53E-07	< 1.49E-07	< 8.41E-07	5.64E-07	< 9.35E-08	< 8.13E-07	< 1.67E-07
Benzo(b)fluoranthene	205-99-2	< 7.71E-07	< 1.79E-07	< 8.85E-07	< 2.25E-07	< 4.05E-07	< 2.36E-07	< 1.66E-06	< 6.28E-07	< 1.49E-07	< 1.61E-06	< 2.67E-07
Benzo(k)fluoranthene	207-08-9	< 7.62E-07	< 1.88E-07	< 8.76E-07	< 2.37E-07	< 4.35E-07	< 2.54E-07	< 1.79E-06	< 6.77E-07	< 1.64E-07	< 1.73E-06	< 2.86E-07
Benzo(a)pyrene	50-32-8	< 8.62E-07	< 1.89E-07	< 9.89E-07	< 2.38E-07	< 4.61E-07	< 2.69E-07	< 1.85E-06	< 6.99E-07	< 1.71E-07	< 1.79E-06	< 3.02E-07
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.12E-06	< 1.61E-07	< 1.29E-06	< 2.04E-07	< 4.17E-07	< 2.44E-07	< 2.29E-06	< 8.65E-07	< 1.59E-07	< 2.21E-06	< 2.74E-07
Dibenz(a,h)anthracene	53-90-3	< 1.43E-06	< 2.07E-07	< 1.65E-06	< 2.60E-07	< 5.38E-07	< 3.14E-07	< 3.10E-06	< 1.17E-06	< 2.02E-07	< 3.00E-06	< 3.54E-07
Benzo(g,h,i)perylene	191-24-2	< 1.30E-06	< 1.82E-07	< 1.49E-06	< 2.29E-07	< 4.65E-07	< 2.71E-07	< 2.64E-06	< 9.97E-07	< 1.77E-07	< 2.55E-06	< 3.05E-07
n-Nitrosodimethylamine	62-75-9	< 9.39E-07	< 2.56E-06	< 1.12E-06	< 3.26E-06	< 2.77E-06	< 1.86E-06	< 1.43E-06	< 2.11E-06	< 1.17E-06	< 1.22E-06	< 2.27E-06
Cumene	98-82-8	3.48E-06	2.38E-06	1.80E-06	1.73E-06	2.15E-05	4.73E-05	3.18E-07	3.52E-06	0.00E+00	1.94E-06	1.79E-06
Aniline	62-53-3	1.81E-04	7.83E-05	3.19E-04	< 1.21E-06	1.47E-05	1.51E-06	1.82E-05	< 4.96E-07	2.87E-05	< 4.57E-07	1.79E-04
Benzyl Chloride	100-44-7	< 2.77E-07	< 6.47E-07	< 3.30E-07	< 8.23E-07	< 7.68E-07	< 5.15E-07	< 4.03E-07	< 3.23E-07	< 3.37E-07	< 3.44E-07	< 6.30E-07
Acetophenone	98-86-2	1.44E-05	1.92E-05	3.15E-05	2.37E-06	1.51E-02	1.35E-02	1.24E-06	4.32E-06	2.97E-06	4.79E-06	4.63E-05
n-Nitrosomorpholine	59-89-2	< 6.77E-07	< 1.75E-06	< 8.06E-07	< 2.22E-06	< 1.93E-06	< 1.30E-06	< 1.01E-06	< 6.96E-07	< 8.38E-07	< 8.58E-07	< 1.58E-06
o-Toluidine	95-53-4	3.35E-06	< 8.77E-07	2.76E-04	< 1.12E-06	< 1.08E-06	< 7.23E-07	< 5.51E-07	< 5.49E-07	1.61E-06	< 4.70E-07	7.03E-06
N,N-Dimethylaniline	121-69-7	< 2.91E-07	< 6.21E-07	< 3.70E-07	< 9.58E-07	< 9.46E-07	< 6.29E-07	< 4.38E-07	< 4.55E-07	< 3.86E-07	< 3.59E-07	< 7.58E-07

* - Extraded, all other compounds are unextruded

TRC

Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 lbs/hr	Cmpd.#5 lbs/hr	Cmpd.#6 lbs/hr	Cmpd.#8 lbs/hr	Cmpd.#9* lbs/hr	Cmpd.#9 lbs/hr	Cmpd.#11 lbs/hr	Cmpd.#15 lbs/hr	Cmpd.#18 lbs/hr	Cmpd.#21 lbs/hr	Cmpd.#22 lbs/hr
1,2-Dibromo-3-chloropropane	96-12-8	< 1.01E-06	< 2.15E-06	< 1.20E-06	< 2.74E-06	< 2.84E-06	< 1.91E-06	< 1.44E-06	< 1.33E-06	< 1.21E-06	< 1.23E-06	< 2.33E-06
o-Anisidine	90-04-0	< 5.52E-07	< 1.16E-06	< 7.00E-07	< 1.79E-06	< 1.96E-06	< 1.30E-06	< 8.74E-07	< 8.42E-07	< 7.87E-07	< 7.17E-07	< 1.57E-06
1,4-Phenylenediamine	106-50-3	< 7.77E-07	< 1.29E-06	< 9.86E-07	< 1.99E-06	< 2.53E-06	< 1.68E-06	< 1.04E-06	< 1.40E-06	< 1.16E-06	< 8.50E-07	< 2.03E-06
N,N-Diethylaniline	91-66-7	< 2.88E-07	< 6.15E-07	< 3.42E-07	< 7.84E-07	< 7.96E-07	< 5.34E-07	< 4.05E-07	< 4.47E-07	< 3.42E-07	< 3.44E-07	< 6.52E-07
a,a,a-Trichlorotoluene	98-07-7	< 3.28E-07	< 6.53E-07	< 4.17E-07	< 1.01E-06	< 1.03E-06	< 6.83E-07	< 4.88E-07	< 4.25E-07	< 4.29E-07	< 4.01E-07	< 8.25E-07
Hydroquinone	123-31-9	< 4.65E-07	< 1.01E-06	< 5.91E-07	< 1.55E-06	< 1.95E-06	< 1.29E-06	< 8.74E-07	< 1.05E-06	< 8.02E-07	< 7.17E-07	< 1.56E-06
2-Chloroacetophenone	1341-24-8	< 2.03E-07	5.89E-07	< 2.58E-07	< 6.68E-07	< 6.93E-07	< 4.60E-07	2.77E-05	< 3.65E-07	< 2.80E-07	< 2.58E-07	< 5.56E-07
Biphenyl	92-52-4	3.62E-06	1.77E-05	1.31E-05	9.40E-07	5.84E-06	9.65E-07	< 3.45E-07	< 3.35E-07	2.06E-07	< 2.84E-07	2.36E-05
Trifluralin	1582-09-8	< 7.69E-07	< 1.75E-06	< 9.80E-07	< 2.64E-06	< 2.95E-06	< 1.93E-06	< 1.11E-06	< 1.90E-06	< 1.07E-06	< 9.11E-07	< 2.25E-06
4-Aminobiphenyl	92-67-1	< 1.67E-07	< 3.30E-07	< 2.03E-07	< 4.90E-07	< 6.55E-07	< 4.25E-07	< 2.65E-07	< 3.87E-07	< 2.25E-07	< 2.08E-07	< 4.66E-07
Pentachloronitrobenzene	82-68-8	< 1.26E-06	< 2.21E-06	< 1.53E-06	< 3.27E-06	< 4.76E-06	< 3.09E-06	< 1.97E-06	< 2.11E-06	< 1.60E-06	< 1.55E-06	< 3.39E-06
4-Nitrobiphenyl	92-93-3	< 2.95E-07	< 5.60E-07	< 3.58E-07	< 8.31E-07	< 1.14E-06	< 7.39E-07	< 4.95E-07	< 8.05E-07	< 4.03E-07	< 3.88E-07	< 8.11E-07
Benzidine	92-87-5	< 2.85E-07	2.87E-05	< 2.90E-07	< 4.73E-07	< 1.07E-06	< 6.33E-07	< 4.91E-07	< 1.01E-06	< 3.75E-07	< 4.20E-07	< 7.26E-07
4,4'-Methylenedianiline	101-77-9	< 5.23E-07	< 8.20E-07	< 5.34E-07	< 1.04E-06	< 1.66E-06	< 9.84E-07	< 6.64E-07	< 1.61E-06	< 6.13E-07	< 5.67E-07	< 1.13E-06
Dimethylaminoazobenzene	60-11-7	< 3.87E-07	< 5.08E-07	< 3.95E-07	< 6.47E-07	< 1.17E-06	< 6.94E-07	< 5.30E-07	< 1.12E-06	< 4.53E-07	< 4.52E-07	< 7.96E-07
3,3'-Dimethylbenzidine	119-93-7	< 2.75E-07	< 4.06E-07	< 2.80E-07	< 5.16E-07	< 8.80E-07	< 5.23E-07	< 3.79E-07	< 9.10E-07	< 3.08E-07	< 3.24E-07	< 5.99E-07
3,3'-Dimethoxybenzidine	119-90-4	< 7.52E-07	< 1.13E-06	< 7.67E-07	< 1.43E-06	< 2.40E-06	< 1.42E-06	< 1.04E-06	< 2.68E-06	< 8.44E-07	< 8.92E-07	< 1.63E-06
Methylene bis-chloroaniline	101-14-4	< 9.10E-07	< 1.35E-06	< 9.29E-07	< 1.72E-06	< 2.94E-06	< 1.74E-06	< 1.29E-06	< 3.10E-06	< 1.05E-06	< 1.10E-06	< 2.00E-06
3-Puraldehyde	498-60-2	< 1.43E-06	< 1.29E-06	< 1.58E-06	< 3.02E-06	< 2.64E-06	< 1.77E-06	< 3.11E-06	< 1.51E-06	< 1.11E-06	< 2.88E-06	< 2.17E-06
2-Puraldehyde	98-01-1	< 1.14E-06	2.83E-06	< 1.26E-06	< 2.51E-06	< 2.31E-06	< 1.55E-06	< 2.54E-06	< 1.23E-06	< 8.88E-07	< 2.35E-06	< 1.89E-06
Cyclohexylamine	108-91-8	3.93E-04	< 2.01E-06	3.21E-03	< 1.95E-06	< 2.03E-06	< 1.36E-06	< 1.68E-06	< 8.12E-07	< 9.30E-07	< 1.56E-06	< 1.66E-06
N-Nitrosodiethylamine	55-18-5	< 1.54E-06	< 1.39E-06	< 1.70E-06	< 3.45E-06	< 3.04E-06	< 2.04E-06	< 3.20E-06	< 1.55E-06	< 1.18E-06	< 2.96E-06	< 2.49E-06
Cyclohexanone	108-94-1	1.08E-03	3.29E-04	1.40E-03	< 1.90E-06	8.46E-06	3.41E-06	7.09E-06	< 6.43E-07	2.19E-05	< 1.23E-06	1.10E-05
1,3-Cyclooctadiene	1700-10-3	< 7.02E-07	< 6.30E-07	< 7.72E-07	1.33E-06	7.84E-07	1.55E-06	< 1.35E-06	< 6.54E-07	< 6.13E-07	< 1.25E-06	< 1.22E-06
1,5-Cyclooctadiene	111-78-4	< 1.52E-06	< 1.37E-06	< 1.67E-06	< 3.45E-06	< 3.27E-06	< 2.19E-06	< 2.81E-06	< 1.37E-06	< 1.30E-06	< 2.61E-06	< 2.68E-06
Camphene	79-92-5	< 7.80E-07	< 7.00E-07	< 8.58E-07	< 1.70E-06	< 1.52E-06	< 1.02E-06	< 1.48E-06	< 7.18E-07	< 6.19E-07	< 1.37E-06	< 1.25E-06
Benzaldehyde	100-52-7	< 9.70E-07	2.00E-05	< 1.07E-06	< 2.28E-06	< 2.03E-06	< 1.36E-06	4.66E-07	< 8.57E-07	< 8.35E-07	4.61E-06	2.66E-06
Benzonitrile	100-47-0	< 3.52E-07	9.00E-07	< 3.86E-07	< 7.80E-07	< 7.04E-07	< 4.72E-07	< 7.14E-07	7.90E-08	< 2.80E-07	< 6.62E-07	< 5.75E-07
Isooctanol	26952-21-6	9.62E-05	< 7.86E-06	7.79E-04	< 2.24E-05	1.59E-04	9.78E-05	9.87E-03	5.97E-03	2.54E-03	4.95E-03	5.58E-05
3-Methylstyrene	100-80-1	4.45E-05	1.92E-05	2.57E-05	< 1.09E-06	< 1.01E-05	< 7.05E-07	2.75E-06	2.23E-06	0.00E+00	1.41E-06	< 8.60E-07
4-Methylstyrene	622-97-9	6.47E-07	3.64E-07	7.58E-07	< 1.20E-06	< 1.14E-06	< 7.66E-07	< 1.04E-06	1.74E-06	0.00E+00	1.14E-06	< 9.35E-07
4-Chlorostyrene	1073-67-2	< 5.09E-07	< 4.57E-07	< 5.60E-07	< 1.32E-06	< 1.27E-06	< 8.49E-07	3.75E-06	< 5.57E-07	< 5.19E-07	< 1.06E-06	< 1.04E-06
1-Dodecene	112-41-4	< 2.73E-06	< 2.27E-06	< 3.00E-06	< 7.29E-06	< 6.66E-06	< 4.42E-06	< 6.63E-06	5.02E-05	< 2.57E-06	< 6.12E-06	< 5.33E-06
Phthalimide	85-41-6	< 8.74E-07	< 8.55E-07	< 1.09E-06	< 1.86E-06	< 2.10E-06	< 1.38E-06	< 2.07E-06	4.66E-07	< 8.28E-07	< 1.75E-06	< 1.60E-06
Diphenylamine	122-39-4	3.01E-05	9.24E-06	2.26E-04	1.55E-06	2.11E-04	2.79E-04	4.23E-05	1.26E-06	5.38E-06	< 7.30E-07	2.27E-05
TOTAL Detected		1.81E-03	6.24E-04	5.62E-03	3.43E-05	1.54E-02	1.39E-02	1.29E-04	1.95E-04	6.78E-05	8.75E-05	3.79E-04
TOTAL with non-detects		< 1.97E-03	< 7.26E-04	< 6.47E-03	< 1.82E-04	< 1.57E-02	< 1.41E-02	< 1.01E-02	< 6.24E-03	< 2.67E-03	< 5.17E-03	< 5.44E-04

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#23 lb/lb rubber
Pyridine	110-86-1	6.18E-08	2.72E-08	< 1.50E-08	< 2.78E-08	< 1.78E-08	< 1.18E-08	< 2.72E-08	1.35E-08	< 6.84E-09	< 3.03E-08	< 1.22E-08
Phenol	108-95-2	< 6.75E-09	1.13E-07	< 7.65E-09	4.75E-08	2.41E-07	2.82E-07	3.54E-08	7.58E-08	8.28E-09	6.21E-08	< 9.16E-09
bis(2-Chloroethyl)ether	111-44-4	< 8.95E-09	< 1.66E-08	< 1.01E-08	< 2.91E-08	< 1.80E-08	< 1.20E-08	< 1.45E-08	< 7.14E-09	< 7.09E-09	< 1.61E-08	< 1.23E-08
2-Chlorophenol	95-57-8	< 5.55E-09	< 1.10E-08	< 6.28E-09	< 1.92E-08	< 1.33E-08	< 8.83E-09	< 1.06E-08	< 5.22E-09	< 5.18E-09	< 1.18E-08	< 9.11E-09
1,3-Dichlorobenzene	541-73-1	< 4.77E-09	< 1.00E-08	< 5.40E-09	< 1.75E-08	< 1.24E-08	< 8.22E-09	< 1.05E-08	< 5.19E-09	< 5.00E-09	< 1.17E-08	< 8.47E-09
1,4-Dichlorobenzene	106-46-7	1.24E-08	1.21E-08	6.86E-09	1.67E-08	2.53E-08	1.01E-08	9.13E-09	3.69E-08	2.41E-09	3.76E-09	3.74E-09
1,2-Dichlorobenzene	95-50-1	< 4.99E-09	< 1.09E-08	< 5.65E-09	< 1.91E-08	< 1.32E-08	< 8.79E-09	< 9.90E-09	< 4.89E-09	< 5.40E-09	< 1.10E-08	< 9.06E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 9.92E-09	< 1.61E-08	< 1.12E-08	< 2.82E-08	< 1.42E-08	< 9.40E-09	< 9.78E-09	< 4.82E-09	< 5.59E-09	< 1.09E-08	< 9.68E-09
Benzyl alcohol	100-51-6	3.20E-08	1.50E-08	< 1.11E-08	1.25E-08	< 2.31E-08	< 1.53E-08	< 1.80E-08	< 8.90E-09	< 8.93E-09	< 2.01E-08	1.63E-08
2-Methylphenol	95-48-7	< 7.86E-09	3.13E-09	< 8.90E-09	6.93E-09	< 1.72E-08	< 1.14E-08	< 1.47E-08	< 7.28E-09	< 6.58E-09	< 1.64E-08	< 1.18E-08
3/4-Methylphenol	108-39-4/106-44-5	2.78E-09	< 1.36E-08	< 8.09E-09	2.76E-09	< 1.59E-08	< 1.05E-08	< 1.40E-08	< 6.91E-09	< 6.10E-09	< 1.56E-08	< 1.09E-08
N-Nitroso-di-n-propylamine	621-64-7	< 1.20E-08	< 2.25E-08	< 1.36E-08	< 3.93E-08	< 2.44E-08	< 1.62E-08	< 1.72E-08	< 8.50E-09	< 9.92E-09	< 1.92E-08	< 1.67E-08
Hexachloroethane	67-72-1	< 9.83E-09	< 1.95E-08	< 1.11E-08	< 3.42E-08	< 2.49E-08	< 1.65E-08	< 1.93E-08	1.23E-07	< 9.89E-09	< 2.15E-08	< 1.70E-08
Nitrobenzene	98-95-3	< 6.52E-09	< 1.01E-08	< 7.39E-09	< 2.13E-08	< 1.34E-08	< 8.82E-09	< 1.01E-08	< 5.22E-09	< 5.60E-09	< 1.12E-08	< 8.99E-09
Isophorone	78-59-1	1.09E-07	9.12E-08	< 4.03E-09	< 1.28E-08	1.56E-08	< 5.19E-09	< 5.93E-09	< 3.05E-09	< 3.13E-09	< 6.59E-09	8.65E-08
2-Nitrophenol	88-75-5	< 8.32E-09	< 1.63E-08	< 9.45E-09	< 3.46E-08	< 2.49E-08	< 1.64E-08	< 1.70E-08	< 8.79E-09	< 9.92E-09	< 1.89E-08	< 1.67E-08
2,4-Dimethylphenol	105-67-9	< 6.80E-09	< 1.13E-08	< 7.73E-09	< 2.38E-08	< 1.51E-08	< 9.91E-09	< 1.31E-08	< 6.80E-09	< 5.72E-09	< 1.46E-08	< 1.01E-08
bis(2-Chloroethoxy)methane	111-91-1	< 6.98E-09	< 1.13E-08	< 7.92E-09	< 2.38E-08	< 1.45E-08	< 9.56E-09	< 1.13E-08	< 5.81E-09	< 5.86E-09	< 1.25E-08	< 9.74E-09
Benzoic acid	65-85-0	0.00E+00	1.29E-08	4.50E-09	1.21E-07	< 3.65E-08	< 2.40E-08	6.66E-08	1.87E-07	0.00E+00	< 2.89E-08	5.19E-08
2,4-Dichlorophenol	120-83-2	< 5.69E-09	< 1.12E-08	< 6.44E-09	< 2.37E-08	< 1.56E-08	< 1.03E-08	< 1.27E-08	< 6.55E-09	< 6.23E-09	< 1.41E-08	< 1.05E-08
1,2,4-Trichlorobenzene	120-82-1	< 5.14E-09	< 9.77E-09	< 5.82E-09	< 2.07E-08	< 1.30E-08	< 8.57E-09	< 1.07E-08	< 5.55E-09	< 5.22E-09	< 1.19E-08	< 8.73E-09
Naphthalene	91-20-3	1.53E-07	1.98E-07	3.55E-07	7.72E-08	6.16E-08	5.87E-08	2.21E-08	1.06E-07	3.11E-08	3.95E-08	1.24E-07
4-Chloroaniline	106-47-8	1.17E-08	< 8.26E-09	< 5.35E-09	< 1.75E-08	< 1.13E-08	< 7.44E-09	< 8.92E-09	< 4.63E-09	< 4.56E-09	< 9.91E-09	< 7.57E-09
Hexachlorobutadiene	87-68-3	< 7.42E-09	< 1.61E-08	< 8.43E-09	< 3.41E-08	1.35E-07	1.41E-07	< 1.59E-08	< 8.20E-09	< 8.37E-09	< 1.76E-08	< 1.33E-08
4-Chloro-3-methylphenol	59-50-7	< 7.67E-09	< 1.07E-08	< 8.71E-09	< 2.27E-08	< 1.51E-08	< 9.94E-09	< 1.47E-08	< 7.61E-09	< 6.08E-09	< 1.64E-08	< 1.01E-08
2-Methylnaphthalene	91-57-6	5.37E-08	8.29E-07	7.36E-08	3.40E-08	3.50E-08	2.82E-08	< 5.97E-09	1.46E-08	3.85E-09	3.94E-09	1.50E-07
Hexachlorocyclopentadiene	77-47-4	< 6.24E-09	< 2.07E-08	< 8.01E-09	< 4.29E-08	< 2.74E-08	< 1.78E-08	< 2.21E-08	< 1.03E-08	< 9.59E-09	< 2.24E-08	< 1.75E-08
2,4,6-Trichlorophenol	88-06-2	< 6.72E-09	< 1.47E-08	< 8.62E-09	< 3.04E-08	< 2.08E-08	< 1.35E-08	< 1.80E-08	< 8.39E-09	< 7.78E-09	< 1.83E-08	< 1.32E-08
2,4,5-Trichlorophenol	95-95-4	< 6.53E-09	< 1.31E-08	< 8.38E-09	< 2.71E-08	< 1.88E-08	< 1.22E-08	< 1.74E-08	< 8.13E-09	< 6.84E-09	< 1.77E-08	< 1.20E-08
2-Chloronaphthalene	91-58-7	< 2.27E-09	< 5.01E-09	< 2.90E-09	< 1.04E-08	< 7.88E-09	< 5.10E-09	< 5.95E-09	< 2.80E-09	< 3.03E-09	< 6.06E-09	< 5.03E-09
2-Nitroaniline	88-74-4	< 1.01E-08	< 1.47E-08	< 1.29E-08	< 3.04E-08	< 2.26E-08	< 1.47E-08	< 1.90E-08	< 8.86E-09	< 8.60E-09	< 1.93E-08	< 1.44E-08
Dimethylphthalate	131-11-3	< 1.88E-09	< 3.65E-09	< 2.41E-09	3.02E-09	< 6.40E-09	< 4.15E-09	< 5.48E-09	< 2.57E-09	< 2.36E-09	< 5.58E-09	< 4.07E-09
2,6-Dinitrotoluene	606-20-2	< 7.78E-09	< 1.54E-08	< 9.98E-09	< 3.18E-08	< 2.65E-08	< 1.72E-08	< 2.41E-08	< 1.13E-08	< 9.62E-09	< 2.45E-08	< 1.69E-08
2,4-Dinitrotoluene	121-14-2	< 5.92E-09	< 9.70E-09	< 7.60E-09	< 2.01E-08	< 1.68E-08	< 1.09E-08	< 1.63E-08	< 7.65E-09	< 6.41E-09	< 1.66E-08	< 1.07E-08
Acenaphthylene	208-96-8	5.02E-08	1.67E-08	1.50E-07	1.63E-08	8.13E-09	4.18E-09	< 4.07E-09	< 1.91E-09	< 1.79E-09	< 4.14E-09	5.30E-08
3-Nitroaniline	99-09-2	< 8.72E-09	2.66E-09	< 1.12E-08	< 2.65E-08	< 2.32E-08	< 1.50E-08	< 2.20E-08	< 1.03E-08	< 8.88E-09	< 2.24E-08	< 1.48E-08
Acenaphthene	83-32-9	< 2.50E-09	2.54E-08	< 3.20E-09	< 1.06E-08	< 8.82E-09	< 5.71E-09	< 7.16E-09	6.95E-09	< 3.27E-09	< 7.28E-09	1.06E-08

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
2,4-Dinitrophenol	105-67-9	< 2.21E-08	< 3.57E-08	< 2.84E-08	< 7.39E-08	< 6.64E-08	< 4.31E-08	< 7.84E-08	< 3.66E-08	< 2.26E-08	< 7.98E-08	< 4.24E-08
4-Nitrophenol	100-02-7	< 1.59E-08	< 1.89E-08	< 2.04E-08	< 3.91E-08	< 3.48E-08	< 2.26E-08	< 3.92E-08	< 1.83E-08	< 1.37E-08	< 3.99E-08	< 2.22E-08
Dibenzofuran	132-64-9	1.02E-08	3.32E-08	1.02E-08	2.81E-09	4.04E-09	3.93E-09	< 4.49E-09	3.83E-09	< 2.00E-09	< 4.57E-09	< 3.50E-09
Diethylphthalate	84-66-2	< 1.64E-09	< 3.22E-09	< 2.11E-09	5.04E-09	8.51E-09	< 3.70E-09	< 4.56E-09	< 2.13E-09	< 2.08E-09	< 4.64E-09	< 3.64E-09
4-Chlorophenyl-phenylether	70005-72-3	< 3.98E-09	< 8.17E-09	< 5.12E-09	< 1.69E-08	< 1.23E-08	< 7.96E-09	< 1.11E-08	< 5.19E-09	< 4.53E-09	< 1.13E-08	< 7.83E-09
Fluorene	86-73-7	1.78E-08	3.32E-08	1.31E-07	6.14E-09	< 6.97E-09	< 4.51E-09	< 6.08E-09	3.90E-09	1.54E-09	< 6.18E-09	1.76E-08
4-Nitroaniline	100-01-6	< 9.06E-09	< 1.15E-08	< 1.16E-08	< 2.38E-08	< 1.94E-08	< 1.26E-08	< 2.56E-08	< 1.20E-08	< 7.36E-09	< 2.61E-08	< 1.23E-08
4,6-Dinitro-2-methylphenol	534-52-1	< 1.74E-08	< 2.20E-08	< 2.08E-08	< 4.49E-08	< 3.51E-08	< 2.26E-08	< 4.65E-08	< 2.39E-08	< 1.15E-08	< 5.12E-08	< 2.09E-08
4-Bromophenyl-phenylether	101-55-3	< 8.12E-09	< 1.49E-08	< 9.73E-09	< 3.04E-08	< 2.40E-08	< 1.54E-08	< 1.97E-08	< 1.01E-08	< 7.92E-09	< 2.17E-08	< 1.43E-08
Hexachlorobenzene	118-74-1	< 6.53E-09	< 1.19E-08	< 7.83E-09	< 2.43E-08	< 1.83E-08	< 1.18E-08	< 1.68E-08	< 8.64E-09	< 6.13E-09	< 1.85E-08	< 1.09E-08
Pentachlorophenol	87-86-5	< 1.32E-08	< 1.91E-08	< 1.58E-08	< 3.89E-08	< 2.92E-08	< 1.87E-08	< 4.02E-08	< 2.06E-08	< 8.88E-09	< 4.43E-08	< 1.74E-08
Phenanthrene	85-01-8	2.96E-08	2.67E-08	5.20E-08	3.43E-08	3.24E-08	5.00E-08	3.76E-09	1.09E-08	< 1.55E-09	7.06E-09	4.44E-08
Anthracene	120-12-7	< 1.93E-09	< 2.66E-09	< 2.31E-09	< 5.41E-09	< 4.61E-09	< 2.96E-09	< 4.45E-09	2.50E-09	< 1.52E-09	< 4.91E-09	< 2.75E-09
Di-n-butylphthalate	84-74-2	2.43E-09	0.00E+00	1.94E-08	0.00E+00	3.39E-08	5.14E-08	0.00E+00	2.33E-07	0.00E+00	8.48E-08	1.20E-07
Fluoranthene	206-44-0	1.05E-08	1.32E-09	1.27E-08	1.08E-08	1.43E-08	2.91E-08	2.04E-09	3.49E-09	2.89E-09	2.47E-09	2.69E-08
Pyrene	129-00-0	9.85E-08	6.08E-09	9.68E-08	3.78E-08	7.54E-08	1.48E-07	1.36E-08	2.19E-08	1.60E-08	1.87E-08	1.28E-07
Butylbenzylphthalate	85-68-7	< 8.53E-09	< 3.35E-09	< 9.22E-09	< 5.85E-09	< 6.83E-09	< 4.00E-09	< 1.20E-08	< 5.52E-09	1.63E-09	< 1.36E-08	< 3.89E-09
3,3'-Dichlorobenzidine	91-94-1	< 2.40E-08	< 7.86E-09	< 2.59E-08	< 1.37E-08	< 1.75E-08	< 1.03E-08	< 3.36E-08	< 1.54E-08	< 6.02E-09	< 3.82E-08	< 9.97E-09
bis(2-Ethylhexyl)phthalate	117-81-7	4.27E-08	4.55E-08	4.15E-07	2.95E-08	2.41E-08	3.96E-08	9.22E-08	4.37E-07	4.10E-09	6.80E-07	2.15E-08
Benzo(a)anthracene	56-55-3	< 6.61E-09	< 2.42E-09	< 7.14E-09	< 4.23E-09	< 4.63E-09	< 2.72E-09	< 9.67E-09	< 4.45E-09	< 1.57E-09	< 1.10E-08	< 2.64E-09
Chrysene	218-01-9	< 7.29E-09	< 2.65E-09	< 7.88E-09	< 4.62E-09	< 4.90E-09	< 2.87E-09	< 1.12E-08	< 5.19E-09	< 1.73E-09	< 1.28E-08	< 2.78E-09
Di-n-octylphthalate	117-84-0	< 4.77E-09	< 1.59E-09	< 5.63E-09	< 2.78E-09	< 2.95E-09	< 1.71E-09	< 8.07E-09	5.52E-09	< 9.64E-10	< 9.39E-09	< 1.62E-09
Benzo(b)fluoranthene	205-99-2	< 8.93E-09	< 2.29E-09	< 1.06E-08	< 3.97E-09	< 4.71E-09	< 2.72E-09	< 1.60E-08	< 6.14E-09	< 1.54E-09	< 1.86E-08	< 2.60E-09
Benzo(k)fluoranthene	207-08-9	< 8.83E-09	< 2.41E-09	< 1.05E-08	< 4.16E-09	< 5.06E-09	< 2.93E-09	< 1.71E-08	< 6.62E-09	< 1.69E-09	< 1.99E-08	< 2.78E-09
Benzo(a)pyrene	50-32-8	< 9.98E-09	< 2.42E-09	< 1.18E-08	< 4.19E-09	< 5.36E-09	< 3.09E-09	< 1.77E-08	< 6.84E-09	< 1.76E-09	< 2.06E-08	< 2.94E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.30E-08	< 2.06E-09	< 1.54E-08	< 3.59E-09	< 4.86E-09	< 2.81E-09	< 2.19E-08	< 8.46E-09	< 1.64E-09	< 2.55E-08	< 2.67E-09
Dibenz(a,h)anthracene	53-90-3	< 1.66E-08	< 2.65E-09	< 1.97E-08	< 4.58E-09	< 6.26E-09	< 3.61E-09	< 2.98E-08	< 1.15E-08	< 2.08E-09	< 3.46E-08	< 3.44E-09
Benzo(g,h,i)perylene	191-24-2	< 1.50E-08	< 2.34E-09	< 1.78E-08	< 4.03E-09	< 5.40E-09	< 3.12E-09	< 2.53E-08	< 9.75E-09	< 1.82E-09	< 2.95E-08	< 2.97E-09
n-Nitrosodimethylamine	62-75-9	< 1.09E-08	< 3.28E-08	< 1.34E-08	< 5.74E-08	< 3.22E-08	< 2.14E-08	< 1.37E-08	< 2.06E-08	< 1.21E-08	< 1.41E-08	< 2.21E-08
Cumene	98-82-8	4.03E-08	3.05E-08	2.15E-08	3.04E-08	2.51E-07	5.44E-07	3.05E-09	3.44E-08	0.00E+00	2.24E-08	1.74E-08
Aniline	62-53-3	2.10E-06	1.00E-06	3.81E-06	< 2.13E-08	1.71E-07	1.74E-08	1.74E-07	< 4.86E-09	2.96E-07	< 5.27E-09	1.74E-06
Benzyl Chloride	100-44-7	< 3.21E-09	< 8.29E-09	< 3.94E-09	< 1.45E-08	< 8.94E-09	< 5.93E-09	< 3.87E-09	< 3.16E-09	< 3.48E-09	< 3.97E-09	< 6.12E-09
Acetophenone	98-86-2	1.67E-07	2.46E-07	3.76E-07	4.18E-08	1.76E-04	1.56E-04	1.19E-08	4.22E-08	3.06E-08	5.52E-08	4.50E-07
n-Nitrosomorpholine	59-89-2	< 7.85E-09	< 2.24E-08	< 9.63E-09	< 3.91E-08	< 2.25E-08	< 1.49E-08	< 9.67E-09	< 6.80E-09	< 8.64E-09	< 9.90E-09	< 1.54E-08
o-Toluidine	95-53-4	3.88E-08	< 1.12E-08	3.29E-06	< 1.97E-08	< 1.25E-08	< 8.33E-09	< 5.29E-09	< 5.37E-09	1.66E-08	< 5.42E-09	6.83E-08
N,N-Dimethylaniline	121-69-7	< 3.38E-09	< 7.96E-09	< 4.42E-09	< 1.69E-08	< 1.10E-08	< 7.24E-09	< 4.20E-09	< 4.45E-09	< 3.97E-09	< 4.14E-09	< 7.37E-09

* - Extruded, all other compounds are unextruded

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Table D.1 - 2 Autoclave Speciated Semivolatiles Summary

Cooldown

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
1,2-Dibromo-3-chloropropane	96-12-8	< 1.17E-08	< 2.76E-08	< 1.44E-08	< 4.82E-08	< 3.31E-08	< 2.19E-08	< 1.39E-08	< 1.31E-08	< 1.25E-08	< 1.42E-08	< 2.26E-08
o-Anisidine	90-04-0	< 6.40E-09	< 1.48E-08	< 8.36E-09	< 3.14E-08	< 2.28E-08	< 1.50E-08	< 8.38E-09	< 8.24E-09	< 8.11E-09	< 8.27E-09	< 1.52E-08
1,4-Phenylenediamine	106-50-3	< 9.01E-09	< 1.66E-08	< 1.18E-08	< 3.51E-08	< 2.94E-08	< 1.93E-08	< 9.95E-09	< 1.37E-08	< 1.19E-08	< 9.81E-09	< 1.97E-08
N,N-Diethylaniline	91-66-7	< 3.33E-09	< 7.88E-09	< 4.08E-09	< 1.38E-08	< 9.27E-09	< 6.14E-09	< 3.88E-09	< 4.38E-09	< 3.52E-09	< 3.97E-09	< 6.34E-09
a,a,a-Trichlorotoluene	98-07-7	< 3.81E-09	< 8.36E-09	< 4.98E-09	< 1.77E-08	< 1.20E-08	< 7.87E-09	< 4.68E-09	< 4.16E-09	< 4.43E-09	< 4.63E-09	< 8.02E-09
Hydroquinone	123-31-9	< 5.39E-09	< 1.29E-08	< 7.06E-09	< 2.73E-08	< 2.27E-08	< 1.49E-08	< 8.38E-09	< 1.03E-08	< 8.27E-09	< 8.27E-09	< 1.52E-08
2-Chloroacetophenone	1341-24-8	< 2.36E-09	7.55E-09	< 3.08E-09	< 1.17E-08	< 8.07E-09	< 5.29E-09	2.66E-07	< 3.57E-09	< 2.89E-09	< 2.97E-09	< 5.41E-09
Biphenyl	92-52-4	4.19E-08	2.27E-07	1.57E-07	1.65E-08	6.79E-08	1.11E-08	< 3.32E-09	< 3.27E-09	2.12E-09	< 3.28E-09	2.30E-07
Trifluralin	1582-09-8	< 8.92E-09	< 2.24E-08	< 1.17E-08	< 4.64E-08	< 3.43E-08	< 2.22E-08	< 1.06E-08	< 1.85E-08	< 1.10E-08	< 1.05E-08	< 2.19E-08
4-Aminobiphenyl	92-67-1	< 1.94E-09	< 4.23E-09	< 2.43E-09	< 8.61E-09	< 7.62E-09	< 4.89E-09	< 2.54E-09	< 3.79E-09	< 2.32E-09	< 2.40E-09	< 4.53E-09
Pentachloronitrobenzene	82-68-8	< 1.46E-08	< 2.83E-08	< 1.83E-08	< 5.75E-08	< 5.54E-08	< 3.56E-08	< 1.89E-08	< 2.06E-08	< 1.65E-08	< 1.79E-08	< 3.30E-08
4-Nitrobiphenyl	92-93-3	< 3.42E-09	< 7.18E-09	< 4.28E-09	< 1.46E-08	< 1.32E-08	< 8.51E-09	< 4.75E-09	< 7.87E-09	< 4.16E-09	< 4.48E-09	< 7.89E-09
Benzidine	92-87-5	< 3.30E-09	3.68E-07	< 3.47E-09	< 8.33E-09	< 1.24E-08	< 7.29E-09	< 4.71E-09	< 9.86E-09	< 3.87E-09	< 4.85E-09	< 7.05E-09
4,4'-Methylenedianiline	101-77-9	< 6.06E-09	< 1.05E-08	< 6.37E-09	< 1.83E-08	< 1.93E-08	< 1.13E-08	< 6.37E-09	< 1.57E-08	< 6.32E-09	< 6.54E-09	< 1.10E-08
Dimethylaminoazobenzene	60-11-7	< 4.49E-09	< 6.51E-09	< 4.72E-09	< 1.14E-08	< 1.36E-08	< 7.99E-09	< 5.08E-09	< 1.10E-08	< 4.67E-09	< 5.21E-09	< 7.74E-09
3,3'-Dimethylbenzidine	119-93-7	< 3.18E-09	< 5.20E-09	< 3.34E-09	< 9.07E-09	< 1.02E-08	< 6.02E-09	< 3.63E-09	< 8.90E-09	< 3.18E-09	< 3.73E-09	< 5.82E-09
3,3'-Dimethoxybenzidine	119-90-4	< 8.71E-09	< 1.44E-08	< 9.15E-09	< 2.52E-08	< 2.79E-08	< 1.64E-08	< 1.00E-08	< 2.62E-08	< 8.70E-09	< 1.03E-08	< 1.59E-08
Methylene bis-chloroaniline	101-14-4	< 1.05E-08	< 1.73E-08	< 1.11E-08	< 3.02E-08	< 3.42E-08	< 2.01E-08	< 1.23E-08	< 3.03E-08	< 1.08E-08	< 1.27E-08	< 1.94E-08
3-Furaldehyde	498-60-2	< 1.66E-08	< 1.65E-08	< 1.88E-08	< 5.31E-08	< 3.08E-08	< 2.04E-08	< 2.98E-08	< 1.47E-08	< 1.15E-08	< 3.33E-08	< 2.10E-08
2-Furaldehyde	98-01-1	< 1.33E-08	3.63E-08	< 1.50E-08	< 4.42E-08	< 2.69E-08	< 1.78E-08	< 2.43E-08	< 1.20E-08	< 9.15E-09	< 2.71E-08	< 1.84E-08
Cyclohexylamine	108-91-8	4.56E-06	< 2.58E-08	3.84E-05	< 3.43E-08	< 2.36E-08	< 1.57E-08	< 1.61E-08	< 7.94E-09	< 9.59E-09	< 1.80E-08	< 1.61E-08
N-Nitrosodiethylamine	55-18-5	< 1.79E-08	< 1.77E-08	< 2.03E-08	< 6.06E-08	< 3.53E-08	< 2.35E-08	< 3.07E-08	< 1.52E-08	< 1.22E-08	< 3.42E-08	< 2.42E-08
Cyclohexanone	108-94-1	1.25E-05	4.22E-06	1.68E-05	< 3.34E-08	9.84E-08	3.92E-08	6.80E-08	< 6.29E-09	2.26E-07	< 1.42E-08	1.07E-07
1,3-Cyclooctadiene	1700-10-3	< 8.13E-09	< 8.07E-09	< 9.22E-09	2.33E-08	9.12E-09	1.79E-08	< 1.29E-08	< 6.40E-09	< 6.32E-09	< 1.44E-08	< 1.19E-08
1,5-Cyclooctadiene	111-78-4	< 1.76E-08	< 1.75E-08	< 2.00E-08	< 6.06E-08	< 3.80E-08	< 2.53E-08	< 2.70E-08	< 1.34E-08	< 1.34E-08	< 3.01E-08	< 2.60E-08
Camphene	79-92-5	< 9.04E-09	< 8.97E-09	< 1.02E-08	< 3.00E-08	< 1.77E-08	< 1.18E-08	< 1.42E-08	< 7.03E-09	< 6.38E-09	< 1.58E-08	< 1.21E-08
Benzaldehyde	100-52-7	< 1.12E-08	2.56E-07	< 1.27E-08	< 4.01E-08	< 2.37E-08	< 1.57E-08	4.48E-09	< 8.39E-09	< 8.61E-09	5.32E-08	2.59E-08
Benzonitrile	100-47-0	< 4.07E-09	1.15E-08	< 4.61E-09	< 1.37E-08	< 8.19E-09	< 5.43E-09	< 6.85E-09	7.72E-10	< 2.89E-09	< 7.64E-09	< 5.59E-09
Isooctanol	26952-21-6	1.11E-06	< 1.01E-07	9.29E-06	< 3.94E-07	1.84E-06	1.13E-06	9.47E-05	5.83E-05	2.62E-05	5.71E-05	5.42E-07
1,2,4-Trimethylbenzene	95-63-6	5.16E-07	2.46E-07	3.06E-07	1.92E-08	1.18E-07	8.12E-09	2.64E-08	2.18E-08	0.00E+00	1.63E-08	8.36E-09
3-Methylstyrene	100-80-1	5.16E-07	2.46E-07	3.06E-07	< 1.92E-08	< 1.18E-07	< 8.12E-09	9.97E-09	1.70E-08	0.00E+00	1.31E-08	< 8.36E-09
4-Methylstyrene	622-97-9	7.49E-09	4.66E-09	9.05E-09	< 2.11E-08	< 1.33E-08	< 8.82E-09	< 9.97E-09	5.44E-09	0.00E+00	1.31E-08	< 9.09E-09
4-Chlorostyrene	1073-67-2	< 5.90E-09	< 5.85E-09	< 6.69E-09	< 2.31E-08	< 1.47E-08	< 9.77E-09	3.60E-08	< 4.91E-07	< 5.34E-09	< 1.23E-08	< 1.01E-08
1-Dodecene	112-41-4	< 3.16E-08	< 2.91E-08	< 3.58E-08	< 1.28E-07	< 7.74E-08	< 5.09E-08	< 6.36E-08	4.91E-07	< 2.65E-08	< 7.06E-08	< 5.18E-08
Phthalimide	85-41-6	< 1.01E-08	< 1.10E-08	< 1.30E-08	< 3.28E-08	< 2.45E-08	< 1.59E-08	< 1.98E-08	4.56E-09	< 8.54E-09	< 2.02E-08	< 1.56E-08
Diphenylamine	122-39-4	5.49E-07	1.18E-07	2.70E-06	2.73E-08	2.46E-06	3.21E-06	4.06E-07	1.23E-08	5.55E-08	< 8.42E-09	2.21E-07
TOTAL Detected		2.26E-05	8.51E-06	7.67E-05	6.23E-07	1.81E-04	1.62E-04	9.59E-05	6.03E-05	2.69E-05	5.82E-05	4.26E-06
TOTAL with non-detects		< 2.33E-05	< 9.54E-06	< 7.76E-05	< 3.23E-06	< 1.83E-04	< 1.63E-04	< 9.73E-05	< 6.15E-05	< 2.75E-05	< 5.97E-05	< 5.29E-06

* - Extruded, all other compounds are unextruded

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Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
Pyridine	110-86-1	< 2.01E+02	< 8.43E+01	< 4.37E+01	1.99E+02	< 6.05E+02	< 6.01E+02	< 7.91E+01	1.33E+02	< 4.92E+01	< 4.57E+02	< 5.95E+01
Phenol	108-95-2	< 1.49E+02	< 4.31E+01	< 3.20E+01	< 5.26E+01	1.56E+04	9.23E+03	< 5.72E+01	< 4.33E+01	< 3.60E+01	< 1.85E+02	< 4.31E+01
bis(2-Chloroethyl)ether	111-44-4	< 1.89E+02	< 5.71E+01	< 4.46E+01	< 6.97E+01	< 6.16E+02	< 6.12E+02	< 8.20E+01	< 5.70E+01	< 5.01E+01	< 2.43E+02	< 6.03E+01
2-Chlorophenol	95-57-8	< 1.43E+02	< 3.54E+01	< 3.41E+01	< 4.32E+01	< 4.71E+02	< 4.68E+02	< 6.00E+01	< 4.18E+01	< 3.84E+01	< 1.78E+02	< 4.42E+01
1,3-Dichlorobenzene	541-73-1	< 1.32E+02	< 3.04E+01	< 3.24E+01	< 3.72E+01	< 4.48E+02	< 4.45E+02	< 5.78E+01	1.07E+01	< 3.65E+01	< 1.76E+02	< 4.19E+01
1,4-Dichlorobenzene	106-46-7	2.92E+01	< 3.03E+01	< 3.19E+01	1.60E+02	1.74E+03	< 4.39E+02	< 5.66E+01	1.87E+01	< 3.59E+01	< 1.65E+02	< 4.16E+01
1,2-Dichlorobenzene	95-50-1	< 1.43E+02	< 3.18E+01	5.73E+01	< 3.88E+01	< 4.77E+02	< 4.74E+02	< 6.25E+01	< 3.91E+01	< 3.88E+01	< 1.67E+02	< 4.46E+01
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.10E+02	< 6.33E+01	< 3.51E+01	< 7.73E+01	< 4.86E+02	< 4.83E+02	< 6.46E+01	< 3.86E+01	< 3.95E+01	< 1.65E+02	< 4.64E+01
Benzyl alcohol	100-51-6	2.52E+02	< 6.27E+01	< 5.76E+01	< 7.66E+01	< 7.97E+02	< 7.92E+02	< 1.03E+02	< 7.11E+01	< 6.49E+01	< 3.03E+02	< 7.60E+01
2-Methylphenol	95-48-7	< 1.84E+02	< 5.02E+01	< 4.21E+01	< 6.13E+01	< 5.82E+02	< 5.78E+02	< 7.61E+01	< 5.80E+01	< 4.73E+01	< 2.47E+02	< 5.54E+01
3/4-Methylphenol	108-39-4/106-44-5	1.47E+02	< 4.56E+01	< 3.98E+01	< 5.57E+01	< 5.51E+02	< 5.47E+02	< 7.06E+01	< 5.52E+01	< 4.48E+01	< 2.35E+02	< 5.06E+01
N-Nitroso-di-n-propylamine	621-64-7	< 2.51E+02	< 7.64E+01	< 6.34E+01	< 9.33E+01	< 8.76E+02	< 8.70E+02	< 1.15E+02	< 6.79E+01	< 7.13E+01	< 2.90E+02	< 8.30E+01
Hexachloroethane	67-72-1	< 2.68E+02	3.29E+02	< 6.32E+01	< 7.66E+01	< 8.73E+02	< 8.68E+02	2.86E+03	7.88E+03	< 7.11E+01	< 3.24E+02	< 8.23E+01
Nitrobenzene	98-95-3	< 1.58E+02	< 3.94E+01	< 2.92E+01	< 4.73E+01	< 4.48E+02	< 4.74E+02	< 5.69E+01	< 4.17E+01	< 3.41E+01	< 1.79E+02	< 4.29E+01
Isophorone	78-59-1	2.46E+03	< 2.15E+01	< 1.68E+01	< 2.58E+01	< 2.58E+02	< 2.74E+02	< 3.18E+01	< 2.44E+01	< 1.97E+01	< 1.05E+02	5.34E+03
2-Nitrophenol	88-75-5	< 2.72E+02	< 5.03E+01	< 5.31E+01	< 6.03E+01	< 8.14E+02	< 8.63E+02	< 1.01E+02	< 7.00E+01	< 6.21E+01	< 3.01E+02	< 7.70E+01
2,4-Dimethylphenol	105-67-9	< 1.83E+02	< 4.11E+01	< 3.15E+01	< 4.93E+01	< 4.84E+02	< 5.13E+02	< 5.81E+01	< 5.40E+01	< 3.69E+01	< 2.32E+02	< 4.69E+01
bis(2-Chloroethoxy)methane	111-91-1	< 1.64E+02	< 4.22E+01	< 3.07E+01	< 5.06E+01	< 4.72E+02	< 5.00E+02	< 5.95E+01	< 4.63E+01	< 3.60E+01	< 1.99E+02	< 4.48E+01
Benzoic acid	65-85-0	< 2.95E+02	6.01E+01	< 4.60E+01	< 1.06E+02	2.64E+03	< 7.49E+02	4.52E+02	< 1.07E+02	< 5.39E+01	< 4.61E+02	2.77E+03
2,4-Dichlorophenol	120-83-2	< 2.00E+02	< 3.43E+01	< 3.39E+01	< 4.12E+01	< 5.21E+02	< 5.52E+02	< 6.33E+01	< 5.21E+01	< 3.97E+01	< 2.24E+02	< 4.88E+01
1,2,4-Trichlorobenzene	120-82-1	< 1.63E+02	< 3.10E+01	< 2.90E+01	< 3.72E+01	< 4.45E+02	< 4.72E+02	1.50E+01	< 4.41E+01	< 3.39E+01	< 1.89E+02	< 4.15E+01
Naphthalene	91-20-3	3.45E+03	1.52E+02	9.06E+03	1.62E+03	1.48E+03	2.01E+03	1.41E+03	1.04E+03	1.51E+03	7.23E+02	5.94E+03
4-Chloroaniline	106-47-8	2.39E+02	< 2.85E+01	< 2.45E+01	< 3.42E+01	< 3.76E+02	< 3.99E+02	< 4.64E+01	< 3.67E+01	< 2.87E+01	< 1.58E+02	< 3.52E+01
Hexachlorobutadiene	87-68-3	< 2.46E+02	< 4.49E+01	< 4.60E+01	< 5.38E+01	4.31E+03	8.96E+03	< 8.51E+01	< 6.54E+01	< 5.39E+01	< 2.81E+02	1.33E+02
4-Chloro-3-methylphenol	59-50-7	< 1.97E+02	< 4.63E+01	< 3.08E+01	< 5.56E+01	< 4.73E+02	< 5.02E+02	< 6.18E+01	< 6.06E+01	< 3.61E+01	< 2.60E+02	< 4.79E+01
2-Methylnaphthalene	91-57-6	1.02E+03	2.34E+01	1.73E+03	4.31E+02	6.71E+02	7.61E+02	2.63E+02	2.54E+01	1.83E+02	< 1.06E+02	6.38E+03
Hexachlorocyclopentadiene	77-47-4	< 2.59E+02	< 4.91E+01	< 4.07E+01	< 7.06E+01	< 8.03E+02	< 9.63E+02	< 9.20E+01	< 8.63E+01	< 8.52E+01	< 2.84E+02	< 6.78E+01
2,4,6-Trichlorophenol	88-06-2	< 2.93E+02	< 5.29E+01	< 3.26E+01	< 7.61E+01	< 6.44E+02	< 7.73E+02	< 7.47E+01	< 7.02E+01	< 6.84E+01	< 2.31E+02	< 4.45E+01
2,4,5-Trichlorophenol	95-95-4	< 2.70E+02	< 5.14E+01	< 2.85E+01	< 7.39E+01	< 5.63E+02	< 6.75E+02	< 6.55E+01	< 6.80E+01	< 5.97E+01	< 2.24E+02	< 4.19E+01
2-Chloronaphthalene	91-58-7	< 1.06E+02	< 1.78E+01	< 1.28E+01	< 2.56E+01	< 2.53E+02	< 3.03E+02	< 2.90E+01	< 2.33E+01	< 2.68E+01	< 7.67E+01	< 1.73E+01
2-Nitroaniline	88-74-4	< 3.25E+02	< 7.90E+01	< 3.36E+01	< 1.14E+02	< 6.63E+02	< 7.95E+02	< 8.24E+01	< 7.43E+01	< 7.03E+01	< 2.44E+02	< 4.83E+01
Dimethylphthalate	131-11-3	< 9.02E+01	1.78E+01	< 9.54E+00	< 2.13E+01	< 1.88E+02	< 2.26E+02	1.90E+02	< 2.14E+01	< 2.00E+01	< 7.06E+01	< 1.34E+01
2,6-Dinitrotoluene	606-20-2	< 3.45E+02	< 6.11E+01	< 3.79E+01	< 8.79E+01	< 7.48E+02	< 8.98E+02	< 9.23E+01	< 9.41E+01	< 7.95E+01	< 3.10E+02	< 5.52E+01
2,4-Dinitrotoluene	121-14-2	< 2.49E+02	< 4.66E+01	< 2.51E+01	< 6.71E+01	< 4.95E+02	< 5.94E+02	< 6.15E+01	< 6.39E+01	< 5.26E+01	< 2.10E+02	< 3.55E+01
Acenaphthylene	208-96-8	9.02E+02	< 1.06E+01	5.21E+03	2.22E+02	1.00E+02	< 1.75E+02	< 1.72E+01	< 1.60E+01	< 1.55E+01	< 5.25E+01	1.28E+03
3-Nitroaniline	99-09-2	< 2.94E+02	< 6.86E+01	< 3.50E+01	< 9.86E+01	< 6.90E+02	< 8.28E+02	< 8.52E+01	< 8.60E+01	< 7.33E+01	< 2.83E+02	< 4.97E+01
Acenaphthene	83-32-9	6.47E+01	< 1.97E+01	< 1.39E+01	< 2.83E+01	< 2.75E+02	< 3.30E+02	< 3.13E+01	< 2.80E+01	< 2.92E+01	< 9.21E+01	< 1.83E+01

* - Extruded, all other compounds are unextruded

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Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9 µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
2,4-Dinitrophenol	105-67-9	< 6.95E+02	< 1.74E+02	< 8.68E+01	< 2.51E+02	< 1.71E+03	< 2.05E+03	< 2.17E+02	< 3.07E+02	< 1.82E+02	< 1.01E+03	< 1.61E+02
4-Nitrophenol	100-02-7	< 5.89E+02	< 1.25E+02	< 5.83E+01	< 1.80E+02	< 1.15E+03	< 1.38E+03	< 1.31E+02	< 1.53E+02	< 1.22E+02	< 5.05E+02	< 8.09E+01
Dibenzofuran	132-64-9	1.68E+02	< 1.31E+01	< 8.26E+00	< 1.89E+01	< 1.63E+02	< 1.96E+02	< 1.92E+01	< 1.76E+01	< 1.73E+01	< 5.78E+01	< 1.16E+01
Diethylphthalate	84-66-2	< 7.86E+01	< 1.29E+01	< 8.38E+00	< 1.86E+01	< 1.66E+02	< 1.99E+02	< 2.00E+01	< 1.78E+01	< 1.76E+01	< 5.87E+01	< 1.19E+01
4-Chlorophenyl-phenylether	70005-72-3	< 1.92E+02	< 3.14E+01	< 1.93E+01	< 4.51E+01	< 3.81E+02	< 4.57E+02	< 4.35E+01	< 4.35E+01	< 4.04E+01	< 1.43E+02	< 2.66E+01
Fluorene	86-73-7	4.03E+02	< 1.61E+01	< 1.09E+01	4.45E+01	< 2.14E+02	< 2.57E+02	< 2.50E+01	< 2.37E+01	< 2.28E+01	< 7.82E+01	3.67E+02
4-Nitroaniline	100-01-6	< 2.72E+02	< 7.13E+01	< 3.05E+01	< 1.03E+02	< 6.02E+02	< 7.22E+02	< 7.07E+01	< 1.00E+02	< 6.39E+01	< 3.30E+02	< 4.24E+01
4,6-Dinitro-2-methylphenol	534-52-1	< 4.10E+02	< 1.23E+02	< 4.63E+01	< 2.58E+02	< 9.95E+02	< 1.21E+03	< 1.03E+02	< 2.04E+02	< 5.31E+01	< 7.70E+02	< 1.28E+03
4-Bromophenyl-phenylether	101-55-3	< 2.66E+02	< 5.73E+01	< 3.27E+01	< 1.20E+02	< 7.03E+02	< 8.58E+02	< 7.07E+01	< 8.65E+01	< 3.75E+01	< 3.26E+02	< 8.17E+02
Hexachlorobenzene	118-74-1	< 2.02E+02	< 4.61E+01	< 2.46E+01	< 9.69E+01	< 5.27E+02	< 6.43E+02	< 5.48E+01	< 7.39E+01	< 2.81E+01	< 2.79E+02	< 6.04E+02
Pentachlorophenol	87-86-5	< 2.90E+02	< 9.33E+01	< 3.89E+01	< 1.96E+02	< 8.36E+02	< 1.02E+03	2.78E+02	< 1.77E+02	< 4.46E+01	< 6.66E+02	< 1.08E+03
Phenanthrene	85-01-8	5.08E+02	2.42E+01	1.61E+03	3.69E+02	5.46E+02	9.10E+02	9.38E+01	1.96E+01	1.38E+02	8.80E+01	9.52E+03
Anthracene	120-12-7	< 6.30E+01	1.29E+01	< 6.26E+00	< 2.85E+01	< 1.34E+02	< 1.64E+02	< 1.36E+01	< 1.96E+01	< 7.17E+00	< 7.38E+01	< 1.57E+02
Di-n-butylphthalate	84-74-2	< 3.72E+01	6.01E+01	4.18E+01	< 1.85E+01	4.86E+02	9.23E+02	6.91E+02	1.35E+03	5.27E+01	1.96E+03	7.22E+03
Fluoranthene	206-44-0	2.61E+02	1.14E+01	1.63E+02	2.05E+02	5.61E+02	1.21E+03	4.73E+01	1.75E+01	1.18E+02	5.17E+01	1.00E+04
Pyrene	129-00-0	8.12E+02	9.50E+01	1.11E+03	7.86E+02	2.34E+03	4.60E+03	5.35E+02	1.76E+02	4.61E+02	4.39E+02	2.03E+03
Butylbenzylphthalate	85-68-7	< 5.01E+01	< 4.19E+01	1.37E+02	< 4.99E+01	< 1.94E+02	< 2.02E+02	< 1.41E+01	< 6.00E+01	< 8.68E+00	< 1.81E+02	< 9.36E+00
3,3'-Dichlorobenzidine	91-94-1	< 1.08E+02	< 1.18E+02	< 1.85E+01	< 1.40E+02	< 4.82E+02	< 5.04E+02	< 3.61E+01	< 1.68E+02	< 2.16E+01	< 5.09E+02	< 2.38E+01
bis(2-Ethylhexyl)phthalate	117-81-7	5.31E+03	2.82E+03	1.30E+04	4.54E+03	2.53E+03	3.13E+03	1.96E+04	5.41E+03	7.43E+02	4.08E+04	2.96E+03
Benzo(a)anthracene	56-55-3	< 3.51E+01	< 3.24E+01	< 4.89E+00	< 3.86E+01	8.71E+01	< 1.33E+02	< 9.43E+00	< 4.85E+01	< 5.69E+00	< 1.46E+02	< 6.53E+00
Chrysene	218-01-9	< 3.81E+01	< 3.58E+01	< 5.25E+00	< 4.27E+01	9.78E+01	< 1.43E+02	< 1.04E+01	< 5.64E+01	< 6.12E+00	< 1.70E+02	< 7.04E+00
Di-n-octylphthalate	117-84-0	< 2.22E+01	< 2.56E+01	< 2.99E+00	< 1.14E+01	< 8.21E+01	< 1.01E+02	< 5.21E+00	< 3.61E+01	< 3.20E+00	2.53E+02	< 6.26E+00
Benzo(b)fluoranthene	205-99-2	< 2.89E+01	< 4.81E+01	< 4.94E+00	< 2.13E+01	< 1.36E+02	< 1.66E+02	< 8.31E+00	< 7.14E+01	< 5.28E+00	< 2.13E+02	< 1.08E+01
Benzo(k)fluoranthene	207-08-9	< 3.06E+01	< 4.75E+01	< 5.26E+00	< 2.10E+01	< 1.44E+02	< 1.77E+02	< 9.10E+00	< 7.67E+01	< 5.62E+00	< 2.29E+02	< 1.14E+01
Benzo(a)pyrene	50-32-8	< 3.09E+01	< 5.37E+01	< 5.70E+00	< 2.38E+01	< 1.56E+02	< 1.92E+02	< 9.50E+00	< 7.94E+01	< 6.09E+00	< 2.36E+02	< 1.26E+01
Indeno(1,2,3-cd)pyrene	193-39-5	< 2.36E+01	< 7.00E+01	< 5.29E+00	< 3.10E+01	< 1.45E+02	< 1.78E+02	< 8.86E+00	< 9.82E+01	< 5.65E+00	< 2.92E+02	< 1.23E+01
Dibenz(a,h)anthracene	53-90-3	< 3.02E+01	< 8.94E+01	< 6.93E+00	< 3.96E+01	< 1.90E+02	< 2.33E+02	< 1.13E+01	< 1.33E+02	< 7.40E+00	< 3.97E+02	< 1.60E+01
Benzo(g,h,i)perylene	191-24-2	< 2.57E+01	< 8.08E+01	< 6.00E+00	< 3.58E+01	< 1.65E+02	< 2.02E+02	< 9.87E+00	< 1.13E+02	< 6.41E+00	< 3.38E+02	< 1.43E+01
n-Nitrosodimethylamine	62-75-9	< 2.16E+02	5.51E+00	< 7.44E+01	< 1.84E+02	< 1.03E+03	< 2.28E+02	< 1.40E+02	< 7.15E+01	< 8.37E+01	< 7.02E+02	< 9.34E+01
Cumene	98-82-8	7.84E+02	8.60E+00	1.00E+03	2.51E+02	2.91E+04	1.00E+02	9.47E+01	6.14E+01	2.29E+03	3.26E+03	1.69E+03
Aniline	62-53-3	5.99E+04	1.78E+03	8.36E+04	< 4.82E+01	4.85E+03	5.03E+02	2.05E+04	< 2.67E+01	3.82E+03	< 1.65E+02	6.65E+04
Benzyl Chloride	100-44-7	< 6.11E+01	< 2.67E+01	< 2.17E+01	< 3.27E+01	< 3.00E+02	< 6.45E+01	< 4.02E+01	< 2.01E+01	< 2.44E+01	< 1.08E+02	< 2.65E+01
Acetophenone	98-86-2	5.56E+03	4.57E+02	1.26E+04	1.04E+03	8.85E+06	1.15E+04	3.73E+03	1.54E+03	5.14E+03	< 1.99E+02	2.88E+04
n-Nitrosomorpholine	59-89-2	< 1.61E+02	< 7.99E+01	< 5.21E+01	< 9.75E+01	< 7.20E+02	< 1.70E+02	< 9.99E+01	< 5.03E+01	< 5.86E+01	< 2.32E+02	< 6.57E+01
o-Toluidine	95-53-4	1.69E+03	< 3.48E+01	4.91E+04	< 4.25E+01	< 3.94E+02	< 8.93E+01	< 5.36E+01	< 2.75E+01	< 3.21E+01	< 1.83E+02	1.86E+03
N,N-Dimethylaniline	121-69-7	< 6.58E+01	< 2.73E+01	< 2.08E+01	< 3.28E+01	< 3.19E+02	< 7.47E+01	< 4.04E+01	< 2.02E+01	< 2.43E+01	< 1.51E+02	< 2.87E+01

* - Extruded, all other compounds are unextruded

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Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
1,2-Dibromo-3-chloropropane	96-12-8	< 2.35E+02	< 7.28E+01	< 7.53E+01	< 8.89E+01	< 1.04E+03	< 2.48E+02	< 1.44E+02	< 7.21E+01	< 8.48E+01	< 4.45E+02	< 9.74E+01
o-Anisidine	90-04-0	< 1.41E+02	< 5.52E+01	< 4.11E+01	< 6.62E+01	< 6.31E+02	< 1.60E+02	< 8.24E+01	< 4.05E+01	< 4.82E+01	< 2.81E+02	< 5.82E+01
1,4-Phenylenediamine	106-50-3	< 1.46E+02	< 1.05E+02	< 4.10E+01	< 1.26E+02	< 6.29E+02	< 1.66E+02	< 1.21E+02	< 4.80E+01	< 4.80E+01	< 4.67E+02	< 6.71E+01
N,N-Diethylaniline	91-66-7	< 7.23E+01	< 2.26E+01	< 2.15E+01	< 2.75E+01	< 2.97E+02	< 7.63E+01	< 4.07E+01	< 2.02E+01	< 2.42E+01	< 1.49E+02	< 2.74E+01
a,a,a-Trichlorotoluene	98-07-7	< 7.65E+01	< 2.47E+01	< 2.35E+01	< 2.96E+01	< 3.60E+02	< 8.68E+01	< 4.49E+01	< 2.26E+01	< 2.75E+01	< 1.41E+02	< 3.26E+01
Hydroquinone	123-31-9	< 1.10E+02	< 1.01E+02	< 3.84E+01	< 1.22E+02	< 5.89E+02	< 1.25E+02	< 8.39E+01	< 4.05E+01	< 4.49E+01	< 3.50E+02	< 4.85E+01
2-Chloroacetophenone	1341-24-8	< 4.94E+01	8.16E+03	< 1.51E+01	< 2.43E+01	< 2.32E+02	< 5.60E+01	3.36E+04	< 1.45E+01	< 1.77E+01	< 1.22E+02	< 2.04E+01
Biphenyl	92-52-4	5.86E+02	< 1.93E+01	2.54E+03	2.77E+02	8.13E+02	< 5.40E+01	7.22E+01	3.39E+01	8.63E+01	< 9.04E+01	4.34E+03
Trifluralin	1582-09-8	< 1.78E+02	< 9.84E+01	< 4.76E+01	< 1.42E+02	< 9.40E+02	< 2.26E+02	< 1.06E+02	< 5.34E+01	< 9.98E+01	< 5.11E+02	< 6.15E+01
4-Aminobiphenyl	92-67-1	< 3.63E+01	< 2.26E+01	< 9.41E+00	< 4.76E+01	< 2.02E+02	< 5.67E+01	< 2.07E+01	< 1.28E+01	< 1.08E+01	< 1.22E+02	< 2.19E+02
Pentachloronitrobenzene	82-68-8	< 2.47E+02	< 1.23E+02	< 7.07E+01	< 2.58E+02	< 1.52E+03	< 3.85E+02	< 1.47E+02	< 9.53E+01	< 8.10E+01	< 6.66E+02	< 1.63E+03
4-Nitrobiphenyl	92-93-3	< 5.97E+01	< 4.81E+01	< 1.65E+01	< 1.01E+02	< 3.54E+02	< 9.32E+01	< 3.71E+01	< 2.39E+01	< 1.89E+01	< 2.54E+02	< 3.82E+02
Benzidine	92-87-5	< 3.49E+01	< 1.04E+02	< 1.05E+01	< 1.24E+02	< 2.73E+02	< 8.06E+01	< 2.32E+01	< 2.25E+01	< 1.22E+01	< 3.24E+02	< 1.25E+01
4,4'-Methylenedianiline	101-77-9	< 6.90E+01	< 1.31E+02	< 1.93E+01	< 1.57E+02	< 5.02E+02	< 1.59E+02	< 3.79E+01	< 3.04E+01	< 2.25E+01	< 5.17E+02	< 2.30E+01
Dimethylaminoazobenzene	60-11-7	< 4.24E+01	< 1.04E+02	< 1.30E+01	< 1.24E+02	< 3.38E+02	< 9.81E+01	< 2.79E+01	< 2.43E+01	< 1.51E+01	< 3.61E+02	< 1.61E+01
3,3'-Dimethylbenzidine	119-93-7	< 3.56E+01	< 6.57E+01	< 9.70E+00	< 7.83E+01	< 2.53E+02	< 8.22E+01	< 1.90E+01	< 1.74E+01	< 1.13E+01	< 2.93E+02	< 1.20E+01
3,3'-Dimethoxybenzidine	119-90-4	< 9.61E+01	< 1.64E+02	< 3.06E+01	< 1.95E+02	< 7.98E+02	< 2.22E+02	< 5.21E+01	< 4.79E+01	< 3.57E+01	< 8.63E+02	< 3.40E+01
Methylene bis-chloroaniline	101-14-4	< 1.14E+02	< 1.97E+02	< 3.29E+01	< 2.35E+02	< 8.58E+02	< 2.64E+02	< 6.46E+01	< 5.90E+01	< 3.84E+01	< 9.99E+02	< 4.20E+01
3-Furaldehyde	498-60-2	< 1.24E+02	< 1.06E+02	< 7.00E+01	< 1.29E+02	< 9.68E+02	< 1.73E+03	< 1.33E+02	< 1.18E+02	< 7.88E+01	< 5.02E+02	< 9.02E+01
2-Furaldehyde	98-01-1	< 1.06E+02	< 8.45E+01	< 6.02E+01	< 1.03E+02	6.44E+02	6.23E+02	< 1.06E+02	< 9.60E+01	< 6.77E+01	1.75E+02	4.13E+01
Cyclohexylamine	108-91-8	2.41E+05	1.78E+03	9.52E+05	< 2.02E+02	< 6.58E+02	< 5.08E+03	1.39E+04	< 6.35E+01	< 5.35E+01	< 2.71E+02	< 5.95E+01
N-Nitrosodiethylamine	55-18-5	< 1.36E+02	< 1.14E+02	< 8.30E+01	< 1.39E+02	< 1.15E+03	< 1.85E+03	< 1.41E+02	< 1.21E+02	< 9.34E+01	< 5.16E+02	< 9.88E+01
Cyclohexanone	108-94-1	4.53E+05	3.65E+03	9.77E+05	7.79E+03	8.98E+03	4.40E+03	2.59E+04	1.66E+03	2.93E+04	2.81E+05	4.78E+03
1,3-Cyclooctadiene	1700-10-3	< 7.18E+01	< 5.19E+01	< 4.08E+01	5.12E+03	1.44E+03	3.28E+03	< 7.31E+01	< 5.10E+01	< 4.59E+01	< 2.18E+02	< 5.22E+01
1,5-Cyclooctadiene	111-78-4	< 1.56E+02	< 1.13E+02	< 9.04E+01	< 1.37E+02	< 1.25E+03	< 1.64E+03	< 1.55E+02	2.09E+02	< 1.02E+02	< 4.54E+02	< 1.14E+02
Camphene	79-92-5	< 7.40E+01	< 5.76E+01	2.01E+03	1.64E+02	< 5.83E+02	< 8.94E+02	< 7.38E+01	< 5.61E+01	< 4.74E+01	< 2.39E+02	1.48E+03
Benzaldehyde	100-52-7	< 9.24E+01	1.57E+02	< 5.38E+01	< 8.75E+01	< 7.44E+02	< 1.05E+03	9.72E+02	1.95E+03	< 6.06E+01	4.88E+03	< 6.71E+01
Benzonitrile	100-47-0	< 3.23E+01	< 2.60E+01	< 1.87E+01	< 3.17E+01	< 2.58E+02	< 4.19E+02	< 3.34E+01	< 2.70E+01	< 2.10E+01	< 1.15E+02	< 2.35E+01
Isooctanol	26952-21-6	4.28E+04	< 6.47E+02	4.07E+05	< 7.91E+02	9.80E+04	1.33E+05	< 7.50E+02	1.08E+06	4.58E+06	1.90E+06	1.28E+05
1,2,4-Trimethylbenzene	95-63-6	2.24E+04	8.58E+01	2.02E+04	9.46E+02	3.54E+03	6.73E+03	6.45E+02	7.86E+02	4.59E+02	< 1.02E+02	6.06E+03
3-Methylstyrene	100-80-1	5.13E+02	3.21E+01	5.54E+02	1.32E+02	< 4.04E+02	< 5.45E+02	2.83E+02	8.75E+01	< 3.29E+01	5.66E+02	3.25E+02
4-Methylstyrene	622-97-9	9.51E+01	1.65E+01	1.45E+02	5.00E+01	< 4.40E+02	< 6.31E+02	1.22E+02	3.62E+01	< 3.58E+01	1.59E+02	8.71E+01
4-Chlorostyrene	1073-67-2	< 6.11E+01	8.33E+02	< 3.46E+01	< 4.59E+01	< 4.79E+02	< 6.44E+02	6.10E+03	< 4.33E+01	< 3.90E+01	< 1.85E+02	< 4.43E+01
1-Dodecene	112-41-4	< 2.71E+02	< 1.91E+02	< 1.52E+02	< 2.29E+02	< 2.37E+03	< 3.72E+03	< 2.69E+02	2.74E+03	< 1.80E+02	< 1.12E+03	< 1.95E+02
Phthalimide	85-41-6	< 6.37E+01	< 7.97E+01	< 3.83E+01	< 1.15E+02	< 7.56E+02	< 1.61E+03	< 8.20E+01	< 7.76E+01	< 8.02E+01	< 2.55E+02	< 4.50E+01
Diphenylamine	122-39-4	3.82E+03	2.00E+03	5.82E+04	2.92E+02	4.08E+04	5.05E+04	1.82E+04	4.50E+01	3.44E+03	< 1.06E+02	3.73E+03
TOTAL Detected		8.48E+05	2.26E+04	2.60E+06	2.46E+04	9.07E+06	2.43E+05	1.51E+05	1.11E+06	4.63E+06	2.23E+06	3.02E+05
TOTAL with non-detects		< 8.61E+05	< 2.85E+04	< 2.60E+06	< 3.27E+04	< 9.12E+06	< 2.96E+05	< 1.57E+05	< 1.12E+06	< 4.63E+06	< 2.26E+06	< 3.11E+05

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 lbs/hr	Cmpd.#5 lbs/hr	Cmpd.#6 lbs/hr	Cmpd.#8 lbs/hr	Cmpd.#9* lbs/hr	Cmpd.#9 lbs/hr	Cmpd.#11 lbs/hr	Cmpd.#15 lbs/hr	Cmpd.#18 lbs/hr	Cmpd.#21 lbs/hr	Cmpd.#22 lbs/hr
Pyridine	110-86-1	< 1.06E-06	< 5.18E-07	< 2.33E-07	1.11E-06	< 3.26E-06	< 2.78E-06	< 2.80E-07	8.03E-07	< 2.57E-07	< 3.00E-06	< 2.95E-07
Phenol	108-95-2	< 7.91E-07	< 2.65E-07	< 1.71E-07	< 2.94E-07	8.44E-05	4.28E-05	< 2.03E-07	< 2.61E-07	< 1.88E-07	< 1.21E-06	< 2.14E-07
bis(2-Chloroethyl)ether	111-44-4	< 1.00E-06	< 3.51E-07	< 2.37E-07	< 3.90E-07	< 3.32E-06	< 2.84E-06	< 2.90E-07	< 3.44E-07	< 2.62E-07	< 1.59E-06	< 2.99E-07
2-Chlorophenol	95-57-8	< 7.58E-07	< 2.17E-07	< 1.82E-07	< 2.42E-07	< 2.54E-06	< 2.17E-06	< 2.12E-07	< 2.52E-07	< 2.01E-07	< 1.17E-06	< 2.19E-07
1,3-Dichlorobenzene	541-73-1	< 7.01E-07	< 1.87E-07	< 1.73E-07	< 2.08E-07	< 2.42E-06	< 2.06E-06	< 2.05E-07	6.44E-08	< 1.91E-07	< 1.15E-06	< 2.08E-07
1,4-Dichlorobenzene	106-46-7	1.55E-07	< 1.86E-07	< 1.70E-07	8.96E-07	9.38E-06	< 2.03E-06	< 2.00E-07	1.13E-07	< 1.88E-07	< 1.08E-06	< 2.06E-07
1,2-Dichlorobenzene	95-50-1	< 7.57E-07	< 1.95E-07	3.05E-07	< 2.17E-07	< 2.57E-06	< 2.19E-06	< 2.21E-07	< 2.35E-07	< 2.03E-07	< 1.09E-06	< 2.21E-07
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.11E-06	< 3.89E-07	< 1.87E-07	< 4.32E-07	< 2.62E-06	< 2.24E-06	< 2.29E-07	< 2.33E-07	< 2.07E-07	< 1.08E-06	< 2.30E-07
Benzyl alcohol	100-51-6	1.34E-06	< 3.85E-07	< 3.07E-07	< 4.28E-07	< 4.30E-06	< 3.67E-06	< 3.66E-07	< 4.28E-07	< 3.39E-07	< 1.99E-06	< 3.77E-07
2-Methylphenol	95-48-7	< 9.73E-07	< 3.08E-07	< 2.24E-07	< 3.42E-07	< 3.14E-06	< 2.68E-06	< 2.69E-07	< 3.49E-07	< 2.48E-07	< 1.62E-06	< 2.75E-07
3/4-Methylphenol	108-39-4/106-44-5	7.77E-07	< 2.80E-07	< 2.12E-07	< 3.11E-07	< 2.97E-06	< 2.54E-06	< 2.50E-07	< 3.33E-07	< 2.35E-07	< 1.54E-06	< 2.51E-07
N-Nitroso-di-n-propylamine	621-64-7	< 1.33E-06	< 4.69E-07	< 3.38E-07	< 5.21E-07	< 4.73E-06	< 4.03E-06	< 4.06E-07	< 4.09E-07	< 3.73E-07	< 1.90E-06	< 4.12E-07
Hexachloroethane	67-72-1	< 1.42E-06	2.02E-06	< 3.37E-07	< 4.28E-07	< 4.71E-06	< 4.02E-06	1.01E-05	4.75E-05	< 3.72E-07	< 2.13E-06	< 4.08E-07
Nitrobenzene	98-95-3	< 8.90E-07	< 2.42E-07	< 1.55E-07	< 2.64E-07	< 2.42E-06	< 2.20E-06	< 2.01E-07	< 2.51E-07	< 1.79E-07	< 1.17E-06	< 2.13E-07
Isophorone	78-59-1	1.30E-05	< 1.32E-07	< 8.97E-08	< 1.44E-07	< 1.39E-06	< 1.27E-06	< 1.12E-07	< 1.47E-07	< 1.03E-07	< 6.87E-07	2.65E-05
2-Nitrophenol	88-75-5	< 1.44E-06	< 3.09E-07	< 2.83E-07	< 3.37E-07	< 4.39E-06	< 4.00E-06	< 3.57E-07	< 4.22E-07	< 3.25E-07	< 1.97E-06	< 3.82E-07
2,4-Dimethylphenol	105-67-9	< 9.67E-07	< 2.52E-07	< 1.68E-07	< 2.76E-07	< 2.61E-06	< 2.38E-06	< 2.06E-07	< 3.26E-07	< 1.93E-07	< 1.52E-06	< 2.33E-07
bis(2-Chloroethoxy)methane	111-91-1	< 8.69E-07	< 2.59E-07	< 1.64E-07	< 2.83E-07	< 2.55E-06	< 2.32E-06	< 2.11E-07	< 2.79E-07	< 1.88E-07	< 1.30E-06	< 2.22E-07
Benzoic acid	65-85-0	< 1.57E-06	3.69E-07	< 2.45E-07	< 5.90E-07	1.43E-05	< 3.47E-06	1.60E-06	< 6.47E-07	< 2.82E-07	< 3.02E-06	1.38E-05
2,4-Dichlorophenol	120-83-2	< 1.06E-06	< 2.11E-07	< 1.81E-07	< 2.30E-07	< 2.81E-06	< 2.56E-06	< 2.24E-07	< 3.14E-07	< 2.08E-07	< 1.47E-06	< 2.42E-07
1,2,4-Trichlorobenzene	120-82-1	< 8.61E-07	< 1.91E-07	< 1.54E-07	< 2.08E-07	< 2.40E-06	< 2.19E-06	5.33E-08	< 2.66E-07	< 1.77E-07	< 1.24E-06	< 2.06E-07
Naphthalene	91-20-3	1.83E-05	9.36E-07	4.83E-05	9.05E-06	8.00E-06	9.32E-06	4.99E-06	6.25E-06	7.90E-06	4.74E-06	2.95E-05
4-Chloroaniline	106-47-8	1.27E-06	< 1.75E-07	< 1.31E-07	< 1.91E-07	< 2.03E-06	< 1.85E-06	< 1.64E-07	< 2.21E-07	< 1.50E-07	< 1.03E-06	< 1.74E-07
Hexachlorobutadiene	87-68-3	< 1.31E-06	< 2.76E-07	< 2.45E-07	< 3.01E-07	2.33E-05	4.15E-05	< 3.01E-07	< 3.94E-07	< 2.82E-07	< 1.84E-06	6.61E-07
4-Chloro-3-methylphenol	59-50-7	< 1.04E-06	< 2.85E-07	< 1.64E-07	< 3.11E-07	< 2.55E-06	< 2.32E-06	< 2.19E-07	< 3.65E-07	< 1.89E-07	< 1.71E-06	< 2.38E-07
2-Methylnaphthalene	91-57-6	5.42E-06	1.44E-07	9.20E-06	2.41E-06	3.62E-06	3.53E-06	9.31E-07	1.53E-07	9.59E-07	< 6.92E-07	3.16E-05
Hexachlorocyclopentadiene	77-47-4	< 1.37E-06	< 3.02E-07	< 2.17E-07	< 3.95E-07	< 4.33E-06	< 4.46E-06	< 3.26E-07	< 5.20E-07	< 4.46E-07	< 1.86E-06	< 3.36E-07
2,4,6-Trichlorophenol	88-06-2	< 1.55E-06	< 3.25E-07	< 1.74E-07	< 4.25E-07	< 3.48E-06	< 3.58E-06	< 2.65E-07	< 4.23E-07	< 3.58E-07	< 1.52E-06	< 2.21E-07
2,4,5-Trichlorophenol	95-95-4	< 1.43E-06	< 3.16E-07	< 1.52E-07	< 4.13E-07	< 3.04E-06	< 3.13E-06	< 2.32E-07	< 4.10E-07	< 3.12E-07	< 1.47E-06	< 2.08E-07
2-Chloronaphthalene	91-58-7	< 5.59E-07	< 1.09E-07	< 6.82E-08	< 1.43E-07	< 1.36E-06	< 1.41E-06	< 1.03E-07	< 1.40E-07	< 1.40E-07	< 5.03E-07	< 8.58E-08
2-Nitroaniline	88-74-4	< 1.72E-06	< 4.86E-07	< 1.79E-07	< 6.36E-07	< 3.58E-06	< 3.68E-06	< 2.92E-07	< 4.47E-07	< 3.68E-07	< 1.60E-06	< 2.40E-07
Dimethylphthalate	131-11-3	< 4.78E-07	1.09E-07	< 5.09E-08	< 1.19E-07	< 1.02E-06	< 1.05E-06	6.73E-07	< 1.29E-07	< 1.05E-07	< 4.63E-07	< 6.65E-08
2,6-Dinitrotoluene	606-20-2	< 1.83E-06	< 3.76E-07	< 2.02E-07	< 4.91E-07	< 4.04E-06	< 4.16E-06	< 3.27E-07	< 5.67E-07	< 4.16E-07	< 2.03E-06	< 2.74E-07
2,4-Dinitrotoluene	121-14-2	< 1.32E-06	< 2.87E-07	< 1.34E-07	< 3.75E-07	< 2.67E-06	< 2.75E-06	< 2.18E-07	< 3.85E-07	< 2.75E-07	< 1.38E-06	< 1.76E-07
Acenaphthylene	208-96-8	4.78E-06	< 6.52E-08	2.78E-05	1.24E-06	5.42E-07	< 8.11E-07	< 6.09E-08	< 9.61E-08	< 8.10E-08	< 3.44E-07	6.36E-06
3-Nitroaniline	99-09-2	< 1.56E-06	< 4.21E-07	< 1.86E-07	< 5.51E-07	< 3.72E-06	< 3.84E-06	< 3.02E-07	< 5.18E-07	< 3.83E-07	< 1.86E-06	< 2.47E-07
Acenaphthene	83-32-9	3.43E-07	< 1.21E-07	< 7.43E-08	< 1.58E-07	< 1.49E-06	< 1.53E-06	< 1.11E-07	< 1.69E-07	< 1.53E-07	< 6.04E-07	< 9.06E-08

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 lbs/hr	Cmpd.#5 lbs/hr	Cmpd.#6 lbs/hr	Cmpd.#8 lbs/hr	Cmpd.#9* lbs/hr	Cmpd.#9 lbs/hr	Cmpd.#11 lbs/hr	Cmpd.#15 lbs/hr	Cmpd.#18 lbs/hr	Cmpd.#11 lbs/hr	Cmpd.#22 lbs/hr
2,4-Dinitrophenol	105-67-9	< 3.68E-06	< 1.07E-06	< 4.62E-07	< 1.40E-06	< 9.24E-06	< 9.52E-06	< 7.69E-07	< 1.85E-06	< 9.51E-07	< 6.62E-06	< 7.98E-07
4-Nitrophenol	100-02-7	< 3.12E-06	< 7.70E-07	< 3.10E-07	< 1.01E-06	< 6.21E-06	< 6.40E-06	< 4.64E-07	< 9.24E-07	< 6.39E-07	< 3.31E-06	< 4.01E-07
Dibenzofuran	132-64-9	8.88E-07	< 8.06E-08	< 4.40E-08	< 1.06E-07	< 8.81E-07	< 9.07E-07	< 6.80E-08	< 1.06E-07	< 9.06E-08	< 3.79E-07	< 5.73E-08
Diethylphthalate	84-66-2	< 4.17E-07	< 7.94E-08	< 4.47E-08	< 1.04E-07	< 8.93E-07	< 9.20E-07	< 7.08E-08	< 1.08E-07	< 9.19E-08	< 3.85E-07	< 5.90E-08
4-Chlorophenyl-phenylether	70005-72-3	< 1.02E-06	< 1.93E-07	< 1.03E-07	< 2.52E-07	< 2.06E-06	< 2.12E-06	< 1.54E-07	< 2.62E-07	< 2.12E-07	< 9.39E-07	< 1.32E-07
Fluorene	86-73-7	2.13E-06	< 9.90E-08	< 5.78E-08	2.49E-07	< 1.16E-06	< 1.19E-06	< 8.84E-08	< 1.43E-07	< 1.19E-07	< 5.12E-07	1.82E-06
4-Nitroaniline	100-01-6	< 1.44E-06	< 4.38E-07	< 1.63E-07	< 5.73E-07	< 3.25E-06	< 3.35E-06	< 2.50E-07	< 6.04E-07	< 3.34E-07	< 2.16E-06	< 2.10E-07
4,6-Dinitro-2-methylphenol	534-52-1	< 2.17E-06	< 7.53E-07	< 2.47E-07	< 1.44E-06	< 5.37E-06	< 5.63E-06	< 3.65E-07	< 1.23E-06	< 2.78E-07	< 5.05E-06	< 6.37E-06
4-Bromophenyl-phenylether	101-55-3	< 1.41E-06	< 3.52E-07	< 1.74E-07	< 6.73E-07	< 3.79E-06	< 3.97E-06	< 2.50E-07	< 5.21E-07	< 1.96E-07	< 2.14E-06	< 4.05E-06
Hexachlorobenzene	118-74-1	< 1.07E-06	< 2.83E-07	< 1.31E-07	< 5.42E-07	< 2.84E-06	< 2.98E-06	< 1.94E-07	< 4.46E-07	< 1.47E-07	< 1.83E-06	< 2.99E-06
Pentachlorophenol	87-86-5	< 1.54E-06	< 5.73E-07	< 2.07E-07	< 1.10E-06	< 4.51E-06	< 4.73E-06	9.83E-07	< 1.06E-06	< 2.33E-07	< 4.36E-06	< 5.33E-06
Phenanthrene	85-01-8	2.69E-06	1.48E-07	8.58E-06	2.06E-06	2.94E-06	4.22E-06	3.32E-07	1.18E-07	7.24E-07	5.77E-07	4.72E-05
Anthracene	120-12-7	< 3.34E-07	7.94E-08	< 3.34E-08	< 1.59E-07	< 7.25E-07	< 7.60E-07	< 4.82E-08	< 1.18E-07	< 3.75E-08	< 4.84E-07	< 7.77E-07
Di-n-butylphthalate	84-74-2	< 1.97E-07	3.69E-07	2.23E-07	< 1.03E-07	2.62E-06	4.28E-06	2.45E-06	8.12E-06	2.76E-07	1.29E-05	3.58E-05
Fluoranthene	206-44-0	1.38E-06	7.03E-08	8.67E-07	1.15E-06	3.03E-06	5.59E-06	1.67E-07	1.06E-07	6.18E-07	3.39E-07	4.97E-05
Pyrene	129-00-0	4.30E-06	5.84E-07	5.92E-06	4.39E-06	1.26E-05	2.13E-05	1.89E-06	1.06E-06	2.41E-06	2.88E-06	1.01E-05
Butylbenzylphthalate	85-68-7	< 2.65E-07	< 2.57E-07	7.32E-07	< 2.79E-07	< 1.05E-06	< 9.38E-07	< 4.98E-08	< 3.62E-07	< 4.54E-08	< 1.19E-06	< 4.64E-08
3,3'-Dichlorobenzidine	91-94-1	< 5.73E-07	< 7.23E-07	< 9.86E-08	< 7.84E-07	< 2.60E-06	< 2.33E-06	< 1.28E-07	< 1.02E-06	< 1.13E-07	< 3.33E-06	< 1.18E-07
bis(2-Ethylhexyl)phthalate	117-81-7	2.81E-05	1.74E-05	6.95E-05	2.54E-05	1.37E-05	1.45E-05	6.95E-05	3.26E-05	3.88E-06	2.67E-04	1.47E-05
Benzo(a)anthracene	56-55-3	< 1.86E-07	< 1.99E-07	< 2.60E-08	< 2.16E-07	4.70E-07	< 6.16E-07	< 3.34E-08	< 2.92E-07	< 2.98E-08	< 9.60E-07	< 3.24E-08
Chrysene	218-01-9	< 2.02E-07	< 2.20E-07	< 2.80E-08	< 2.39E-07	5.28E-07	< 6.62E-07	< 3.68E-08	< 3.40E-07	< 3.20E-08	< 1.12E-06	< 3.49E-08
Di-n-octylphthalate	117-84-0	< 1.17E-07	< 1.57E-07	< 1.59E-08	< 6.35E-08	< 4.43E-07	< 4.67E-07	< 1.85E-08	< 2.17E-07	< 1.67E-08	1.66E-06	< 3.10E-08
Benzo(b)fluoranthene	205-99-2	< 1.53E-07	< 2.95E-07	< 2.63E-08	< 1.19E-07	< 7.32E-07	< 7.70E-07	< 2.94E-08	< 4.30E-07	< 2.76E-08	< 1.39E-06	< 5.35E-08
Benzo(k)fluoranthene	207-08-9	< 1.62E-07	< 2.92E-07	< 2.80E-08	< 1.18E-07	< 7.79E-07	< 8.20E-07	< 3.22E-08	< 4.62E-07	< 2.94E-08	< 1.50E-06	< 5.67E-08
Benzo(a)pyrene	50-32-8	< 1.64E-07	< 3.30E-07	< 3.04E-08	< 1.33E-07	< 8.44E-07	< 8.88E-07	< 3.37E-08	< 4.78E-07	< 3.18E-08	< 1.55E-06	< 6.23E-08
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.25E-07	< 4.30E-07	< 2.82E-08	< 1.74E-07	< 7.83E-07	< 8.24E-07	< 3.14E-08	< 5.92E-07	< 2.95E-08	< 1.92E-06	< 6.10E-08
Dibenz(a,h)anthracene	53-90-3	< 1.60E-07	< 5.50E-07	< 3.69E-08	< 2.22E-07	< 1.03E-06	< 1.08E-06	< 3.99E-08	< 8.02E-07	< 3.87E-08	< 2.60E-06	< 7.93E-08
Benzo(g,h,i)perylene	191-24-2	< 1.36E-07	< 4.97E-07	< 3.20E-08	< 2.00E-07	< 8.88E-07	< 9.35E-07	< 3.50E-08	< 6.83E-07	< 3.35E-08	< 2.21E-06	< 7.11E-08
n-Nitrosodimethylamine	62-75-9	< 1.14E-06	3.39E-08	< 3.96E-07	< 1.03E-06	< 5.55E-06	< 1.06E-06	< 4.96E-07	< 4.31E-07	< 4.38E-07	< 4.60E-06	< 4.63E-07
Cumene	98-82-8	4.15E-06	5.28E-08	5.33E-06	1.41E-06	1.57E-04	4.64E-07	3.35E-07	3.70E-07	1.20E-05	2.13E-05	8.37E-06
Aniline	62-53-3	3.17E-04	1.09E-05	4.45E-04	< 2.69E-07	2.62E-05	2.33E-06	7.26E-05	< 1.61E-07	2.00E-05	< 1.08E-06	3.30E-04
Benzyl Chloride	100-44-7	< 3.24E-07	< 1.64E-07	< 1.16E-07	< 1.83E-07	< 1.62E-06	< 2.99E-07	< 1.42E-07	< 1.21E-07	< 1.28E-07	< 7.10E-07	< 1.32E-07
Acetophenone	98-86-2	2.94E-05	2.81E-06	6.72E-05	5.82E-06	4.78E-02	5.33E-05	1.32E-05	9.30E-06	2.69E-05	< 1.31E-06	1.43E-04
n-Nitrosomorpholine	59-89-2	< 8.53E-07	< 4.91E-07	< 2.78E-07	< 5.45E-07	< 3.89E-06	< 7.88E-07	< 3.54E-07	< 3.03E-07	< 3.07E-07	< 1.52E-06	< 3.26E-07
o-Toluidine	95-53-4	8.98E-06	< 2.14E-07	2.61E-04	< 2.38E-07	< 2.13E-06	< 4.14E-07	< 1.90E-07	< 1.66E-07	< 1.68E-07	< 1.20E-06	9.23E-06
N,N-Dimethylaniline	121-69-7	< 3.49E-07	< 1.68E-07	< 1.11E-07	< 1.83E-07	< 1.72E-06	< 3.46E-07	< 1.43E-07	< 1.22E-07	< 1.27E-07	< 9.92E-07	< 1.42E-07

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 lbs/hr	Cmpd.#5 lbs/hr	Cmpd.#6 lbs/hr	Cmpd.#8 lbs/hr	Cmpd.#9* lbs/hr	Cmpd.#9 lbs/hr	Cmpd.#11 lbs/hr	Cmpd.#15 lbs/hr	Cmpd.#18 lbs/hr	Cmpd.#21 lbs/hr	Cmpd.#22 lbs/hr
1,2-Dibromo-3-chloropropane	96-12-8	< 1.24E-06	< 4.47E-07	< 4.01E-07	< 4.97E-07	< 5.62E-06	< 1.15E-06	< 5.10E-07	< 4.34E-07	< 4.43E-07	< 2.91E-06	< 4.83E-07
o-Anisidine	90-04-0	< 7.47E-07	< 3.39E-07	< 2.19E-07	< 3.70E-07	< 3.41E-06	< 7.41E-07	< 2.92E-07	< 2.44E-07	< 2.52E-07	< 1.84E-06	< 2.88E-07
1,4-Phenylenediamine	106-50-3	< 7.74E-07	< 6.46E-07	< 2.18E-07	< 7.06E-07	< 3.39E-06	< 7.68E-07	< 4.29E-07	< 2.89E-07	< 2.51E-07	< 3.06E-06	< 3.33E-07
N,N-Diethylaniline	91-66-7	< 3.83E-07	< 1.39E-07	< 1.15E-07	< 1.54E-07	< 1.60E-06	< 3.54E-07	< 1.44E-07	< 1.21E-07	< 1.27E-07	< 9.76E-07	< 1.36E-07
a,a,a-Trichlorotoluene	98-07-7	< 4.05E-07	< 1.52E-07	< 1.25E-07	< 1.66E-07	< 1.94E-06	< 4.02E-07	< 1.59E-07	< 1.36E-07	< 1.44E-07	< 9.27E-07	< 1.61E-07
Hydroquinone	123-31-9	< 5.83E-07	< 6.23E-07	< 2.04E-07	< 6.81E-07	< 3.18E-06	< 5.79E-07	< 2.97E-07	< 2.44E-07	< 2.35E-07	< 2.29E-06	< 2.40E-07
2-Chloroacetophenone	1341-24-8	< 2.62E-07	5.01E-05	< 8.05E-08	< 1.36E-07	< 1.25E-06	< 2.60E-07	1.19E-04	< 8.76E-08	< 9.25E-08	< 8.01E-07	< 1.01E-07
Biphenyl	92-52-4	3.11E-06	< 1.18E-07	1.35E-05	1.55E-06	4.39E-06	< 2.50E-07	2.56E-07	2.04E-07	4.51E-07	< 5.93E-07	2.15E-05
Trifluralin	1582-09-8	< 9.43E-07	< 6.05E-07	< 2.54E-07	< 7.91E-07	< 5.07E-06	< 1.05E-06	< 3.74E-07	< 3.22E-07	< 5.22E-07	< 3.35E-06	< 3.05E-07
4-Aminobiphenyl	92-67-1	< 1.93E-07	< 1.39E-07	< 5.01E-08	< 2.66E-07	< 1.09E-06	< 2.63E-07	< 7.34E-08	< 7.71E-08	< 5.64E-08	< 8.00E-07	< 1.09E-06
Pentachloronitrobenzene	82-68-8	< 1.31E-06	< 7.53E-07	< 3.77E-07	< 1.44E-06	< 8.20E-06	< 1.79E-06	< 5.20E-07	< 5.74E-07	< 4.24E-07	< 4.36E-06	< 8.06E-06
4-Nitrobiphenyl	92-93-3	< 3.16E-07	< 2.96E-07	< 8.79E-08	< 5.65E-07	< 1.91E-06	< 4.32E-07	< 1.31E-07	< 1.44E-07	< 9.88E-08	< 1.67E-06	< 1.89E-06
Benzidine	92-87-5	< 1.85E-07	< 6.37E-07	< 5.59E-08	< 6.91E-07	< 1.47E-06	< 3.73E-07	< 8.20E-08	< 1.36E-07	< 6.39E-08	< 2.12E-06	< 6.22E-08
4,4'-Methylenedianiline	101-77-9	< 3.66E-07	< 8.07E-07	< 1.03E-07	< 8.76E-07	< 2.71E-06	< 7.39E-07	< 1.34E-07	< 1.83E-07	< 1.17E-07	< 3.39E-06	< 1.14E-07
Dimethylaminoazobenzene	60-11-7	< 2.25E-07	< 6.38E-07	< 6.91E-08	< 6.92E-07	< 1.82E-06	< 4.54E-07	< 9.89E-08	< 1.46E-07	< 7.90E-08	< 2.37E-06	< 7.96E-08
3,3'-Dimethylbenzidine	119-93-7	< 1.88E-07	< 4.04E-07	< 5.17E-08	< 4.38E-07	< 1.36E-06	< 3.81E-07	< 6.74E-08	< 1.05E-07	< 5.91E-08	< 1.92E-06	< 5.94E-08
3,3'-Dimethoxybenzidine	119-90-4	< 5.09E-07	< 1.01E-06	< 1.63E-07	< 1.09E-06	< 4.30E-06	< 1.03E-06	< 1.85E-07	< 2.89E-07	< 1.87E-07	< 5.65E-06	< 1.69E-07
Methylene bis-chloroaniline	101-14-4	< 6.06E-07	< 1.21E-06	< 1.75E-07	< 1.31E-06	< 4.63E-06	< 1.22E-06	< 2.29E-07	< 3.56E-07	< 2.01E-07	< 6.55E-06	< 2.09E-07
3-Furaldehyde	498-60-2	< 6.58E-07	< 6.51E-07	< 3.73E-07	< 7.24E-07	< 5.22E-06	< 8.00E-06	< 4.70E-07	< 7.09E-07	< 4.12E-07	< 3.29E-06	< 4.47E-07
2-Furaldehyde	98-01-1	< 5.62E-07	< 5.19E-07	< 3.21E-07	< 5.77E-07	3.47E-06	2.89E-06	< 3.75E-07	< 5.79E-07	< 3.54E-07	1.15E-06	2.05E-07
Cyclohexylamine	108-91-8	1.28E-03	1.09E-05	5.07E-03	< 1.13E-06	< 3.55E-06	< 2.36E-05	4.91E-05	< 3.83E-07	< 2.80E-07	< 1.78E-06	< 2.95E-07
N-Nitrosodiethylamine	55-18-5	< 7.20E-07	< 7.01E-07	< 4.42E-07	< 7.79E-07	< 6.19E-06	< 8.57E-06	< 4.99E-07	< 7.29E-07	< 4.89E-07	< 3.38E-06	< 4.90E-07
Cyclohexanone	108-94-1	2.40E-03	2.24E-05	5.21E-03	4.36E-05	4.85E-05	2.04E-05	9.17E-05	1.00E-05	1.53E-04	1.84E-03	2.37E-05
1,3-Cyclooctadiene	1700-10-3	< 3.80E-07	< 3.19E-07	< 2.17E-07	2.86E-05	7.80E-06	1.52E-05	< 2.59E-07	< 3.08E-07	< 2.40E-07	< 1.43E-06	< 2.59E-07
1,5-Cyclooctadiene	111-78-4	< 8.28E-07	< 6.91E-07	< 4.82E-07	< 7.68E-07	< 6.74E-06	< 7.62E-06	< 5.48E-07	1.26E-06	< 5.32E-07	< 2.98E-06	< 5.63E-07
Camphene	79-92-5	< 3.92E-07	< 3.54E-07	1.07E-05	9.15E-07	< 3.14E-06	< 4.14E-06	< 2.61E-07	< 3.38E-07	< 2.48E-07	< 1.57E-06	7.34E-06
Benzaldehyde	100-52-7	< 4.89E-07	9.65E-07	< 2.87E-07	< 4.89E-07	< 4.01E-06	< 4.87E-06	3.44E-06	1.18E-05	< 3.17E-07	3.20E-05	< 3.33E-07
Benzonitrile	100-47-0	< 1.71E-07	< 1.59E-07	< 9.95E-08	< 1.77E-07	< 1.39E-06	< 1.94E-06	< 1.18E-07	< 1.63E-07	< 1.10E-07	< 7.56E-07	< 1.16E-07
Isooctanol	26952-21-6	2.26E-04	< 3.98E-06	2.17E-03	< 4.42E-06	5.29E-04	6.18E-04	< 2.66E-06	6.54E-03	2.39E-02	1.24E-02	6.34E-04
1,2,4-Trimethylbenzene	95-63-6	1.19E-04	5.27E-07	1.07E-04	5.29E-06	1.91E-05	3.12E-05	2.28E-06	4.74E-06	2.40E-06	< 6.70E-07	3.01E-05
3-Methylstyrene	100-80-1	2.72E-06	1.97E-07	2.95E-06	7.39E-07	< 2.18E-06	< 2.52E-06	1.00E-06	5.27E-07	< 1.72E-07	3.71E-06	1.61E-06
4-Methylstyrene	622-97-9	5.04E-07	1.02E-07	7.74E-07	2.80E-07	< 2.37E-06	< 2.92E-06	4.32E-07	2.18E-07	< 1.87E-07	1.04E-06	4.32E-07
4-Chlorostyrene	1073-67-2	< 3.23E-07	5.12E-06	< 1.85E-07	< 2.57E-07	< 2.58E-06	< 2.99E-06	2.16E-05	< 2.61E-07	< 2.04E-07	< 1.21E-06	< 2.20E-07
1-Dodecene	112-41-4	< 1.43E-06	< 1.17E-06	< 8.09E-07	< 1.28E-06	< 1.28E-05	< 1.73E-05	< 9.52E-07	1.65E-05	< 9.44E-07	< 7.36E-06	< 9.68E-07
Phthalimide	85-41-6	< 3.37E-07	< 4.90E-07	< 2.04E-07	< 6.41E-07	< 4.08E-06	< 7.46E-06	< 2.90E-07	< 4.67E-07	< 4.20E-07	< 1.67E-06	< 2.23E-07
Diphenylamine	122-39-4	2.03E-05	1.23E-05	3.10E-04	1.63E-06	2.20E-04	2.34E-04	6.45E-05	2.71E-07	1.80E-05	< 6.98E-07	1.85E-05
TOTAL Detected		4.49E-03	1.39E-04	1.38E-02	1.38E-04	4.90E-02	1.13E-03	5.33E-04	6.69E-03	2.42E-02	1.46E-02	1.50E-03
TOTAL with non-detects		< 4.56E-03	< 1.75E-04	< 1.39E-02	< 1.83E-04	< 4.92E-02	< 1.37E-03	< 5.55E-04	< 6.72E-03	< 2.42E-02	< 1.48E-02	< 1.54E-03

* - Extraded, all other compounds are unextruded

TRC

Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 Butyl rubber	Cmpd.#5 Butyl rubber	Cmpd.#6 Butyl rubber	Cmpd.#8 Butyl rubber	Cmpd.#9* Butyl rubber	Cmpd.#9 Butyl rubber	Cmpd.#11 Butyl rubber	Cmpd.#15 Butyl rubber	Cmpd.#18 Butyl rubber	Cmpd.#21 Butyl rubber	Cmpd.#22 Butyl rubber
Pyridine	110-86-1	< 5.99E-09	< 2.43E-09	< 1.73E-09	9.09E-09	< 2.07E-08	< 1.74E-08	< 1.34E-09	2.71E-09	< 1.53E-09	< 1.35E-08	< 1.78E-09
Phenol	108-95-2	< 4.45E-09	< 1.24E-09	< 1.27E-09	< 2.40E-09	5.36E-07	2.67E-07	< 9.72E-10	< 8.79E-10	< 1.12E-09	< 5.45E-09	< 1.29E-09
bis(2-Chloroethyl)ether	111-44-4	< 5.65E-09	< 1.65E-09	< 1.76E-09	< 3.18E-09	< 2.11E-08	< 1.77E-08	< 1.39E-09	< 1.16E-09	< 1.56E-09	< 7.18E-09	< 1.81E-09
2-Chlorophenol	95-57-8	< 4.26E-09	< 1.02E-09	< 1.35E-09	< 1.97E-09	< 1.61E-08	< 1.36E-08	< 1.02E-09	< 8.48E-10	< 1.20E-09	< 5.26E-09	< 1.32E-09
1,3-Dichlorobenzene	541-73-1	< 3.95E-09	< 8.79E-10	< 1.28E-09	< 1.70E-09	< 1.53E-08	< 1.29E-08	< 9.83E-10	2.17E-10	< 1.14E-09	< 5.19E-09	< 1.26E-09
1,4-Dichlorobenzene	106-46-7	8.72E-10	< 8.74E-10	< 1.26E-09	7.31E-09	5.96E-08	< 1.27E-08	< 9.61E-10	3.80E-10	< 1.12E-09	< 4.88E-09	< 1.25E-09
1,2-Dichlorobenzene	95-50-1	< 4.26E-09	< 9.18E-10	2.27E-09	< 1.77E-09	< 1.63E-08	< 1.37E-08	< 1.06E-09	< 7.93E-10	< 1.21E-09	< 4.92E-09	< 1.34E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 6.25E-09	< 1.83E-09	< 1.39E-09	< 3.52E-09	< 1.66E-08	< 1.40E-08	< 1.10E-09	< 7.84E-10	< 1.23E-09	< 4.86E-09	< 1.39E-09
Benzyl alcohol	100-51-6	7.51E-09	< 1.81E-09	< 2.28E-09	< 3.49E-09	< 2.73E-08	< 2.29E-08	< 1.76E-09	< 1.44E-09	< 2.02E-09	< 8.95E-09	< 2.28E-09
2-Methylphenol	95-48-7	< 5.47E-09	< 1.45E-09	< 1.66E-09	< 2.79E-09	< 1.99E-08	< 1.67E-08	< 1.29E-09	< 1.18E-09	< 1.47E-09	< 7.30E-09	< 1.66E-09
3/4-Methylphenol	108-39-4/106-44-5	4.37E-09	< 1.32E-09	< 1.58E-09	< 2.54E-09	< 1.89E-08	< 1.59E-08	< 1.20E-09	< 1.12E-09	< 1.40E-09	< 6.95E-09	< 1.52E-09
N-Nitroso-di-n-propylamine	621-64-7	< 7.48E-09	< 2.20E-09	< 2.51E-09	< 4.25E-09	< 3.00E-08	< 2.52E-08	< 1.95E-09	< 1.38E-09	< 2.22E-09	< 8.55E-09	< 2.49E-09
Hexachloroethane	67-72-1	< 7.98E-09	9.49E-09	< 2.50E-09	< 3.49E-09	< 2.99E-08	< 2.51E-08	4.86E-08	1.60E-07	< 2.21E-09	< 9.58E-09	< 2.47E-09
Nitrobenzene	98-95-3	< 5.01E-09	< 1.14E-09	< 1.15E-09	< 2.15E-09	< 1.53E-08	< 1.37E-08	< 9.67E-10	< 8.46E-10	< 1.06E-09	< 5.28E-09	< 1.29E-09
Isophorone	78-59-1	7.33E-08	< 6.20E-10	< 6.66E-10	< 1.18E-09	< 8.85E-09	< 7.93E-09	< 5.40E-10	< 4.96E-10	< 6.14E-10	< 3.10E-09	1.60E-07
2-Nitrophenol	88-75-5	< 8.11E-09	< 1.45E-09	< 2.10E-09	< 2.75E-09	< 2.79E-08	< 2.50E-08	< 1.71E-09	< 1.42E-09	< 1.93E-09	< 8.88E-09	< 2.31E-09
2,4-Dimethylphenol	105-67-9	< 5.44E-09	< 1.19E-09	< 1.25E-09	< 2.25E-09	< 1.66E-08	< 1.49E-08	< 9.88E-10	< 1.10E-09	< 1.15E-09	< 6.85E-09	< 1.41E-09
bis(2-Chloroethoxy)methane	111-91-1	< 4.89E-09	< 1.22E-09	< 1.22E-09	< 2.31E-09	< 1.62E-08	< 1.45E-08	< 1.01E-09	< 9.40E-10	< 1.12E-09	< 5.87E-09	< 1.34E-09
Benzoic acid	65-85-0	< 8.81E-09	1.73E-09	< 1.82E-09	< 4.81E-09	9.05E-08	< 2.17E-08	7.68E-09	< 2.18E-09	< 1.68E-09	< 1.36E-08	8.32E-08
2,4-Dichlorophenol	120-83-2	< 5.96E-09	< 9.91E-10	< 1.34E-09	< 1.88E-09	< 1.78E-08	< 1.60E-08	< 1.08E-09	< 1.06E-09	< 1.24E-09	< 6.61E-09	< 1.46E-09
1,2,4-Trichlorobenzene	120-82-1	< 4.85E-09	< 8.95E-10	< 1.15E-09	< 1.70E-09	< 1.52E-08	< 1.37E-08	2.56E-10	< 8.96E-10	< 1.06E-09	< 5.60E-09	< 1.25E-09
Naphthalene	91-20-3	1.03E-07	4.40E-09	3.58E-07	7.38E-08	5.08E-08	5.82E-08	2.40E-08	2.11E-08	4.70E-08	2.14E-08	1.78E-07
4-Chloroaniline	106-47-8	7.12E-09	< 8.23E-10	< 9.70E-10	< 1.56E-09	< 1.29E-08	< 1.16E-08	< 7.88E-10	< 7.46E-10	< 8.94E-10	< 4.66E-09	< 1.06E-09
Hexachlorobutadiene	87-68-3	< 7.35E-09	< 1.29E-09	< 1.82E-09	< 2.46E-09	1.48E-07	2.59E-07	< 1.45E-09	< 1.33E-09	< 1.68E-09	< 8.29E-09	4.00E-09
4-Chloro-3-methylphenol	59-50-7	< 5.87E-09	< 1.34E-09	< 1.22E-09	< 2.54E-09	< 1.62E-08	< 1.45E-08	< 1.05E-09	< 1.23E-09	< 1.12E-09	< 7.69E-09	< 1.44E-09
2-Methylnaphthalene	91-57-6	3.05E-08	6.77E-10	6.83E-08	1.97E-08	2.30E-08	2.20E-08	4.47E-09	5.16E-10	5.71E-09	< 3.12E-09	1.91E-07
Hexachlorocyclopentadiene	77-47-4	< 7.73E-09	< 1.42E-09	< 1.61E-09	< 3.22E-09	< 2.75E-08	< 2.79E-08	< 1.56E-09	< 1.75E-09	< 2.66E-09	< 8.39E-09	< 2.03E-09
2,4,6-Trichlorophenol	88-06-2	< 8.73E-09	< 1.53E-09	< 1.29E-09	< 3.47E-09	< 2.21E-08	< 2.34E-08	< 1.27E-09	< 1.43E-09	< 2.13E-09	< 6.83E-09	< 1.33E-09
2,4,5-Trichlorophenol	95-95-4	< 8.04E-09	< 1.48E-09	< 1.13E-09	< 3.37E-09	< 1.93E-08	< 1.96E-08	< 1.11E-09	< 1.38E-09	< 1.86E-09	< 6.62E-09	< 1.26E-09
2-Chloronaphthalene	91-58-7	< 3.15E-09	< 5.13E-10	< 5.06E-10	< 1.17E-09	< 8.65E-09	< 8.78E-09	< 4.93E-10	< 4.73E-10	< 8.36E-10	< 2.26E-09	< 5.19E-10
2-Nitroaniline	88-74-4	< 9.70E-09	< 2.28E-09	< 1.33E-09	< 5.18E-09	< 2.27E-08	< 2.30E-08	< 1.40E-09	< 1.51E-09	< 2.19E-09	< 7.22E-09	< 1.45E-09
Dimethylphthalate	131-11-3	< 2.69E-09	5.12E-10	< 3.78E-10	< 9.71E-10	< 6.45E-09	< 6.55E-09	3.23E-09	< 4.35E-10	< 6.23E-10	< 2.08E-09	< 4.02E-10
2,6-Dinitrotoluene	606-20-2	< 1.03E-08	< 1.76E-09	< 1.50E-09	< 4.01E-09	< 2.56E-08	< 2.60E-08	< 1.57E-09	< 1.91E-09	< 2.47E-09	< 9.15E-09	< 1.66E-09
2,4-Dinitrotoluene	121-14-2	< 7.43E-09	< 1.35E-09	< 9.92E-10	< 3.06E-09	< 1.70E-08	< 1.72E-08	< 1.04E-09	< 1.30E-09	< 1.64E-09	< 6.21E-09	< 1.06E-09
Acenaphthylene	208-96-8	2.69E-08	< 3.06E-10	2.06E-07	1.01E-08	3.44E-09	< 5.07E-09	< 2.92E-10	< 3.24E-10	< 4.82E-10	< 1.55E-09	3.85E-08
3-Nitroaniline	99-09-2	< 8.78E-09	< 1.98E-09	< 1.38E-09	< 4.50E-09	< 2.36E-08	< 2.40E-08	< 1.45E-09	< 1.75E-09	< 2.28E-09	< 8.36E-09	< 1.49E-09
Acenaphthene	83-32-9	1.93E-09	< 5.68E-10	< 5.52E-10	< 1.29E-09	< 9.43E-09	< 9.57E-09	< 5.32E-10	< 5.68E-10	< 9.10E-10	< 2.72E-09	< 5.48E-10

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
2,4-Dinitrophenol	105-67-9	< 2.07E-08	< 5.03E-09	< 3.43E-09	< 1.14E-08	< 5.87E-08	< 5.95E-08	< 3.69E-09	< 6.23E-09	< 5.66E-09	< 2.98E-08	< 4.82E-09
4-Nitrophenol	100-02-7	< 1.76E-08	< 3.62E-09	< 2.31E-09	< 8.22E-09	< 3.94E-08	< 4.00E-08	< 2.23E-09	< 3.11E-09	< 3.80E-09	< 1.49E-08	< 2.43E-09
Dibenzofuran	132-64-9	5.00E-09	< 3.79E-10	< 3.27E-10	< 8.61E-10	< 5.59E-09	< 5.67E-09	< 3.26E-10	< 3.56E-10	< 5.40E-10	< 1.71E-09	< 3.47E-10
Diethylphthalate	84-66-2	< 2.34E-09	< 3.73E-10	< 3.32E-10	< 8.47E-10	< 5.67E-09	< 5.75E-09	< 3.40E-10	< 3.62E-10	< 5.47E-10	< 1.73E-09	< 3.57E-10
4-Chlorophenyl-phenylether	70005-72-3	< 5.72E-09	< 9.06E-10	< 7.64E-10	< 2.06E-09	< 1.30E-08	< 1.32E-08	< 7.40E-10	< 8.83E-10	< 1.26E-09	< 4.23E-09	< 7.99E-10
Fluorene	86-73-7	1.20E-08	< 4.65E-10	< 4.29E-10	2.03E-09	< 7.34E-09	< 7.45E-09	< 4.24E-10	< 4.82E-10	< 7.09E-10	< 2.31E-09	1.10E-08
4-Nitroaniline	100-01-6	< 8.12E-09	< 2.06E-09	< 1.21E-09	< 4.68E-09	< 2.06E-08	< 2.09E-08	< 1.20E-09	< 2.04E-09	< 1.99E-09	< 9.75E-09	< 1.27E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 1.22E-08	< 3.54E-09	< 1.83E-09	< 1.17E-08	< 3.41E-08	< 3.52E-08	< 1.75E-09	< 4.15E-09	< 1.65E-09	< 2.27E-08	< 3.85E-08
4-Bromophenyl-phenylether	101-55-3	< 7.92E-09	< 1.65E-09	< 1.30E-09	< 5.49E-09	< 2.41E-08	< 2.48E-08	< 1.20E-09	< 1.76E-09	< 1.17E-09	< 9.63E-09	< 2.45E-08
Hexachlorobenzene	118-74-1	< 6.02E-09	< 1.33E-09	< 9.72E-10	< 4.42E-09	< 1.81E-08	< 1.86E-08	< 9.31E-10	< 1.50E-09	< 8.76E-10	< 8.23E-09	< 1.81E-08
Pentachlorophenol	87-86-5	< 8.66E-09	< 2.69E-09	< 1.54E-09	< 8.94E-09	< 2.86E-08	< 2.95E-08	4.72E-09	< 3.59E-09	< 1.39E-09	< 1.97E-08	< 3.23E-08
Phenanthrene	85-01-8	1.51E-08	6.97E-10	6.37E-08	1.68E-08	1.87E-08	2.64E-08	1.59E-09	3.97E-10	4.31E-09	2.60E-09	2.86E-07
Anthracene	120-12-7	< 1.88E-09	3.73E-10	< 2.48E-10	< 1.30E-09	< 4.60E-09	< 4.75E-09	< 2.31E-10	< 3.97E-10	< 2.23E-10	< 2.18E-09	< 4.70E-09
Di-n-butylphthalate	84-74-2	< 1.11E-09	1.74E-09	1.65E-09	< 8.42E-10	1.66E-08	2.67E-08	1.17E-08	2.74E-08	1.64E-09	5.80E-08	2.17E-07
Fluoranthene	206-44-0	7.78E-09	3.30E-10	6.44E-09	9.37E-09	1.92E-08	3.50E-08	8.04E-10	3.55E-10	3.68E-09	1.53E-09	3.01E-07
Pyrene	129-00-0	2.42E-08	2.74E-09	4.40E-08	3.58E-08	8.00E-08	1.33E-07	9.09E-09	3.56E-09	1.44E-08	1.30E-08	6.09E-08
Butylbenzylphthalate	85-68-7	< 1.49E-09	< 1.21E-09	5.43E-09	< 2.28E-09	< 6.64E-09	< 5.86E-09	< 2.39E-10	< 1.22E-09	< 2.70E-10	< 5.35E-09	< 2.81E-10
3,3'-Dichlorobenzidine	91-94-1	< 3.23E-09	< 3.40E-09	< 7.33E-10	< 6.40E-09	< 1.65E-08	< 1.46E-08	< 6.13E-10	< 3.42E-09	< 6.72E-10	< 1.50E-08	< 7.13E-10
bis(2-Ethylhexyl)phthalate	117-81-7	1.58E-07	8.15E-08	5.16E-07	2.07E-07	8.68E-08	9.07E-08	3.34E-07	1.10E-07	2.31E-08	1.20E-06	8.88E-08
Benzo(a)anthracene	56-55-3	< 1.05E-09	< 9.35E-10	< 1.93E-10	< 1.76E-09	2.98E-09	< 3.85E-09	< 1.60E-10	< 9.85E-10	< 1.77E-10	< 4.32E-09	< 1.96E-10
Chrysene	218-01-9	< 1.14E-09	< 1.03E-09	< 2.08E-10	< 1.95E-09	3.35E-09	< 4.14E-09	< 1.77E-10	< 1.14E-09	< 1.91E-10	< 5.03E-09	< 2.11E-10
Di-n-octylphthalate	117-84-0	< 6.61E-10	< 7.40E-10	< 1.18E-10	< 5.18E-10	< 2.81E-09	< 2.92E-09	< 8.86E-11	< 7.32E-10	< 9.97E-11	7.46E-09	< 1.88E-10
Benzo(b)fluoranthene	205-99-2	< 8.61E-10	< 1.39E-09	< 1.96E-10	< 9.71E-10	< 4.64E-09	< 4.81E-09	< 1.41E-10	< 1.45E-09	< 1.64E-10	< 6.28E-09	< 3.24E-10
Benzo(k)fluoranthene	207-08-9	< 9.13E-10	< 1.37E-09	< 2.08E-10	< 9.60E-10	< 4.95E-09	< 5.12E-09	< 1.55E-10	< 1.56E-09	< 1.75E-10	< 6.75E-09	< 3.43E-10
Benzo(a)pyrene	50-32-8	< 9.22E-10	< 1.55E-09	< 2.26E-10	< 1.09E-09	< 5.35E-09	< 5.55E-09	< 1.61E-10	< 1.61E-09	< 1.90E-10	< 6.98E-09	< 3.77E-10
Indeno(1,2,3-cd)pyrene	193-39-5	< 7.05E-10	< 2.02E-09	< 2.09E-10	< 1.42E-09	< 4.97E-09	< 5.15E-09	< 1.51E-10	< 1.99E-09	< 1.76E-10	< 8.64E-09	< 3.69E-10
Dibenz(a,h)anthracene	53-90-3	< 9.00E-10	< 2.58E-09	< 2.74E-10	< 1.81E-09	< 6.51E-09	< 6.75E-09	< 1.91E-10	< 2.70E-09	< 2.30E-10	< 1.17E-08	< 4.80E-10
Benzo(g,h,i)perylene	191-24-2	< 7.65E-10	< 2.33E-09	< 2.38E-10	< 1.63E-09	< 5.64E-09	< 5.84E-09	< 1.68E-10	< 2.30E-09	< 2.00E-10	< 9.97E-09	< 4.30E-10
n-Nitrosodimethylamine	62-75-9	< 6.43E-09	1.59E-10	< 2.94E-09	< 8.37E-09	< 3.52E-08	< 6.60E-09	< 2.38E-09	< 1.45E-09	< 2.61E-09	< 2.07E-08	< 2.80E-09
Cumene	98-82-8	2.34E-08	2.48E-10	3.96E-08	1.15E-08	9.97E-07	2.90E-09	1.61E-09	1.25E-09	7.13E-08	9.61E-08	5.06E-08
Aniline	62-53-3	1.79E-06	5.12E-08	3.31E-06	< 2.20E-09	1.66E-07	1.46E-08	3.48E-07	< 5.43E-10	1.19E-07	< 4.88E-09	1.99E-06
Benzyl Chloride	100-44-7	< 1.82E-09	< 7.72E-10	< 8.59E-10	< 1.49E-09	< 1.03E-08	< 1.87E-09	< 6.83E-10	< 4.09E-10	< 7.61E-10	< 3.20E-09	< 7.96E-10
Acetophenone	98-86-2	1.66E-07	1.32E-08	4.99E-07	4.75E-08	3.03E-04	3.33E-07	6.34E-08	3.13E-08	1.60E-07	< 5.89E-09	8.64E-07
n-Nitrosomorpholine	59-89-2	< 4.80E-09	< 2.30E-09	< 2.06E-09	< 4.45E-09	< 2.47E-08	< 4.92E-09	< 1.70E-09	< 1.02E-09	< 1.83E-09	< 6.84E-09	< 1.97E-09
o-Toluidine	95-53-4	5.05E-08	< 1.00E-09	1.94E-06	< 1.94E-09	< 1.35E-08	< 2.59E-09	< 9.11E-10	< 5.58E-10	< 9.99E-10	< 5.40E-09	5.58E-08
N,N-Dimethylaniline	121-69-7	< 1.96E-09	< 7.89E-10	< 8.23E-10	< 1.50E-09	< 1.09E-08	< 2.16E-09	< 6.87E-10	< 4.11E-10	< 7.58E-10	< 4.47E-09	< 8.61E-10

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 3 Autoclave Speciated Semivolatiles Summary

Blowdown

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
1,2-Dibromo-3-chloropropane	96-12-8	< 6.99E-09	< 2.10E-09	< 2.98E-09	< 4.05E-09	< 3.57E-08	< 7.17E-09	< 2.45E-09	< 1.46E-09	< 2.64E-09	< 1.31E-08	< 2.92E-09
o-Anisidine	90-04-0	< 4.21E-09	< 1.59E-09	< 1.63E-09	< 3.02E-09	< 2.16E-08	< 4.63E-09	< 1.40E-09	< 8.22E-10	< 1.50E-09	< 8.29E-09	< 1.74E-09
1,4-Phenylenediamine	106-50-3	< 4.36E-09	< 3.04E-09	< 1.62E-09	< 5.76E-09	< 2.15E-08	< 4.80E-09	< 2.06E-09	< 9.74E-10	< 1.49E-09	< 1.38E-08	< 2.01E-09
N,N-Diethylaniline	91-66-7	< 2.16E-09	< 6.51E-10	< 8.51E-10	< 1.26E-09	< 1.02E-08	< 2.21E-09	< 6.91E-10	< 4.09E-10	< 7.54E-10	< 4.40E-09	< 8.22E-10
a,a,a-Trichlorotoluene	98-07-7	< 2.28E-09	< 7.13E-10	< 9.28E-10	< 1.35E-09	< 1.23E-08	< 2.51E-09	< 7.63E-10	< 4.59E-10	< 8.55E-10	< 4.17E-09	< 9.76E-10
Hydroquinone	123-31-9	< 3.28E-09	< 2.93E-09	< 1.52E-09	< 5.55E-09	< 2.02E-08	< 3.62E-09	< 1.43E-09	< 8.22E-10	< 1.40E-09	< 1.03E-08	< 1.45E-09
2-Chloroacetophenone	1341-24-8	< 1.47E-09	2.35E-07	< 5.98E-10	< 1.11E-09	< 7.94E-09	< 1.62E-09	5.71E-07	< 2.95E-10	< 5.51E-10	< 3.61E-09	< 6.12E-10
Biphenyl	92-52-4	1.75E-08	< 5.56E-10	1.00E-07	1.26E-08	2.79E-08	< 1.56E-09	1.23E-09	6.88E-10	2.69E-09	< 2.67E-09	1.30E-07
Trifluralin	1582-09-8	< 5.31E-09	< 2.84E-09	< 1.88E-09	< 6.45E-09	< 3.22E-08	< 6.55E-09	< 1.80E-09	< 1.08E-09	< 3.11E-09	< 1.51E-08	< 1.84E-09
4-Aminobiphenyl	92-67-1	< 1.08E-09	< 6.53E-10	< 3.72E-10	< 2.17E-09	< 6.92E-09	< 1.64E-09	< 3.52E-10	< 2.60E-10	< 3.36E-10	< 3.60E-09	< 6.58E-09
Pentachloronitrobenzene	82-68-8	< 7.37E-09	< 3.54E-09	< 2.80E-09	< 1.17E-08	< 5.20E-08	< 1.12E-08	< 2.50E-09	< 1.93E-09	< 2.52E-09	< 1.97E-08	< 4.87E-08
4-Nitrobiphenyl	92-93-3	< 1.78E-09	< 1.39E-09	< 6.53E-10	< 4.61E-09	< 1.21E-08	< 2.70E-09	< 6.30E-10	< 4.85E-10	< 5.88E-10	< 7.51E-09	< 1.15E-08
Benzidine	92-87-5	< 1.04E-09	< 2.99E-09	< 4.15E-10	< 5.63E-09	< 9.36E-09	< 2.33E-09	< 3.93E-10	< 4.57E-10	< 3.81E-10	< 9.56E-09	< 3.76E-10
4,4'-Methylenedianiline	101-77-9	< 2.06E-09	< 3.79E-09	< 7.62E-10	< 7.14E-09	< 1.72E-08	< 4.62E-09	< 6.44E-10	< 6.17E-10	< 6.99E-10	< 1.53E-08	< 6.91E-10
Dimethylaminoazobenzene	60-11-7	< 1.27E-09	< 3.00E-09	< 5.13E-10	< 5.65E-09	< 1.16E-08	< 2.84E-09	< 4.75E-10	< 4.92E-10	< 4.71E-10	< 1.07E-08	< 4.82E-10
3,3'-Dimethylbenzidine	119-93-7	< 1.06E-09	< 1.90E-09	< 3.84E-10	< 3.57E-09	< 8.65E-09	< 2.38E-09	< 3.24E-10	< 3.53E-10	< 3.52E-10	< 8.66E-09	< 3.59E-10
3,3'-Dimethoxybenzidine	119-90-4	< 2.86E-09	< 4.72E-09	< 1.21E-09	< 8.89E-09	< 2.73E-08	< 6.43E-09	< 8.86E-10	< 9.72E-10	< 1.11E-09	< 2.55E-08	< 1.02E-09
Methylene bis-chloroaniline	101-14-4	< 3.41E-09	< 5.68E-09	< 1.30E-09	< 1.07E-08	< 2.94E-08	< 7.66E-09	< 1.10E-09	< 1.20E-09	< 1.20E-09	< 2.95E-08	< 1.26E-09
3-Puraldehyde	498-60-2	< 3.70E-09	< 3.06E-09	< 2.77E-09	< 5.90E-09	< 3.31E-08	< 5.00E-08	< 2.26E-09	< 2.39E-09	< 2.45E-09	< 1.48E-08	< 2.71E-09
2-Puraldehyde	98-01-1	< 3.16E-09	< 2.44E-09	< 2.38E-09	< 4.71E-09	2.20E-08	1.81E-08	< 1.80E-09	< 1.95E-09	< 2.11E-09	5.17E-09	1.24E-09
Cyclohexylamine	108-91-8	7.18E-06	5.14E-08	3.77E-05	< 9.23E-09	< 2.25E-08	< 1.47E-07	2.35E-07	< 1.29E-09	< 1.67E-09	< 8.00E-09	< 1.79E-09
N-Nitrosodiethylamine	55-18-5	< 4.05E-09	< 3.29E-09	< 3.29E-09	< 6.35E-09	< 3.93E-08	< 5.36E-08	< 2.39E-09	< 2.46E-09	< 2.91E-09	< 1.52E-08	< 2.96E-09
Cyclohexanone	108-94-1	1.35E-05	1.05E-07	3.87E-05	3.55E-07	3.08E-07	1.27E-07	4.40E-07	3.38E-08	9.14E-07	8.30E-06	1.43E-07
1,3-Cyclooctadiene	1700-10-3	< 2.14E-09	< 1.50E-09	< 1.61E-09	2.34E-07	4.95E-08	9.51E-08	< 1.24E-09	< 1.04E-09	< 1.43E-09	< 6.43E-09	< 1.56E-09
1,5-Cyclooctadiene	111-78-4	< 4.66E-09	< 3.25E-09	< 3.58E-09	< 6.27E-09	< 4.28E-08	< 4.76E-08	< 2.63E-09	4.24E-09	< 3.17E-09	< 1.34E-08	< 3.41E-09
Camphene	79-92-5	< 2.21E-09	< 1.66E-09	7.95E-08	7.46E-09	< 2.00E-08	< 2.59E-08	< 1.25E-09	< 1.14E-09	< 1.48E-09	< 7.06E-09	4.44E-08
Benzaldehyde	100-52-7	< 2.76E-09	4.53E-09	< 2.13E-09	< 3.99E-09	< 2.55E-08	< 3.05E-08	1.65E-08	3.97E-08	< 1.89E-09	1.44E-07	< 2.01E-09
Benzonitrile	100-47-0	< 9.64E-10	< 7.49E-10	< 7.39E-10	< 1.45E-09	< 8.84E-09	< 1.21E-08	< 5.68E-10	< 5.49E-10	< 6.54E-10	< 3.40E-09	< 7.04E-10
Isooctanol	26952-21-6	1.27E-06	< 1.87E-08	1.61E-05	< 3.61E-08	3.36E-06	3.86E-06	< 1.27E-08	2.20E-05	1.43E-04	5.60E-05	3.84E-06
1,2,4-Trimethylbenzene	95-63-6	6.68E-07	2.48E-09	7.98E-07	4.31E-08	1.21E-07	1.95E-07	1.10E-08	1.60E-08	1.43E-08	< 3.02E-09	1.82E-07
3-Methylstyrene	100-80-1	1.53E-08	9.27E-10	2.19E-08	6.03E-09	< 1.38E-08	< 1.58E-08	4.81E-09	1.78E-09	< 1.03E-09	1.67E-08	9.73E-09
4-Methylstyrene	622-97-9	2.84E-09	4.77E-10	5.75E-09	2.28E-09	< 1.51E-08	< 1.83E-08	2.07E-09	7.34E-10	< 1.12E-09	4.69E-09	2.61E-09
4-Chlorostyrene	1073-67-2	< 1.82E-09	2.40E-08	< 1.37E-09	< 2.09E-09	< 1.64E-08	< 1.87E-08	1.04E-07	< 8.80E-10	< 1.21E-09	< 5.46E-09	< 1.33E-09
1-Dodecene	112-41-4	< 8.08E-09	< 5.51E-09	< 6.01E-09	< 1.04E-08	< 8.10E-08	< 1.08E-07	< 4.57E-09	5.56E-08	< 5.62E-09	< 3.32E-08	< 5.86E-09
Phthalimide	85-41-6	< 1.90E-09	< 2.30E-09	< 1.51E-09	< 5.23E-09	< 2.59E-08	< 4.66E-08	< 1.39E-09	< 1.57E-09	< 2.50E-09	< 7.54E-09	< 1.35E-09
Diphenylamine	122-39-4	1.14E-07	5.76E-08	2.30E-06	1.33E-08	1.40E-06	1.46E-06	3.10E-07	9.13E-10	1.07E-07	< 3.14E-09	1.12E-07
TOTAL Detected		2.53E-05	6.51E-07	1.03E-04	1.12E-06	3.11E-04	7.03E-06	2.56E-06	2.25E-05	1.44E-04	6.59E-05	9.05E-06
TOTAL, with non-detects		< 2.57E-05	< 8.23E-07	< 1.03E-04	< 1.49E-06	< 3.12E-04	< 8.58E-06	< 2.66E-06	< 2.26E-05	< 1.44E-04	< 6.67E-05	< 9.34E-06

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 4 Autoclave Speciated Semivolatiles Summary

Water Trap

Compound	CAS #	Cmpd.#4 µg/L	Cmpd.#5 µg/L	Cmpd.#6 µg/L	Cmpd.#8 µg/L	Cmpd.#9* µg/L	Cmpd.#9 µg/L	Cmpd.#11 µg/L	Cmpd.#15 µg/L	Cmpd.#18 µg/L	Cmpd.#21 µg/L	Cmpd.#22 µg/L
Pyridine	110-86-1	< 10.53	22.48	< 10.52	< 10.27	< 48.49	< 48.44	< 5.24	23.69	< 9.08	3.41	< 10.01
Phenol	108-95-2	< 4.41	< 3.31	< 4.41	< 7.04	427.3	234.68	< 2.95	< 3.34	< 3.81	3.86	< 4.2
bis(2-Chloroethyl)ether	111-44-4	< 6.04	< 4.4	< 6.04	< 10.08	< 47.59	< 47.54	< 3.92	< 4.44	< 5.21	< 8.24	< 5.75
2-Chlorophenol	95-57-8	< 4.01	< 3.24	< 4.01	< 7.33	< 34.6	< 34.57	< 2.89	< 3.27	< 3.46	< 6.39	< 3.82
1,3-Dichlorobenzene	541-73-1	< 3.77	< 3.06	< 3.77	< 6.63	< 31.31	< 31.28	< 2.73	< 3.09	< 3.25	< 5.82	< 3.59
1,4-Dichlorobenzene	106-46-7	< 3.8	0.96	< 3.8	< 6.62	10.75	< 31.19	< 2.58	< 2.92	< 3.28	< 5.7	< 3.62
1,2-Dichlorobenzene	95-50-1	< 4	< 3.24	< 4	< 7.17	33.86	< 33.82	< 2.89	< 3.27	< 3.45	< 6.22	< 3.81
2,2'-oxybis(1-Chloropropane)	108-60-1	< 6.43	< 4.61	< 6.43	< 9.14	< 43.15	< 43.1	< 4.11	< 4.65	< 5.55	< 6.88	< 6.12
Benzyl alcohol	100-51-6	< 7.63	< 6.38	< 7.62	< 12.98	< 61.28	< 61.22	< 5.69	< 6.44	< 6.58	< 11.2	22.15
2-Methylphenol	95-48-7	< 5.72	< 4.57	< 5.72	< 9.55	< 45.06	< 45.01	2.49	< 4.61	5.04	< 8.17	< 5.44
3/4-Methylphenol	108-39-4/106-44-5	< 5.34	< 4.58	< 5.34	< 8.84	< 41.73	< 41.69	12.79	< 4.62	< 4.61	< 7.52	< 5.08
N-Nitroso-di-n-propylamine	621-64-7	< 8.14	< 6.65	< 8.14	< 14.06	< 66.35	< 66.28	< 5.93	< 6.71	< 7.03	< 12.05	< 7.75
Hexachloroethane	67-72-1	< 6.52	< 5.84	< 6.51	< 13.27	< 62.63	< 62.56	< 5.21	150.49	< 5.62	20.54	< 6.2
Nitrobenzene	98-95-3	< 4.49	< 3.41	< 3.44	< 6.43	< 38.85	< 38.02	< 3.16	< 4.18	< 4.03	< 4.85	< 4.29
Isophorone	78-59-1	38.17	78.76	< 1.79	< 3.57	< 21.56	< 21.1	< 1.83	< 2.42	13.4	< 2.83	70.96
2-Nitrophenol	88-75-5	< 6.89	< 6.1	< 5.28	< 10.57	< 63.8	< 62.43	< 5.65	< 7.48	< 6.18	< 8.57	< 6.58
2,4-Dimethylphenol	105-67-9	< 4.53	< 4.04	< 3.47	< 7.18	< 43.33	< 42.4	< 3.74	< 4.95	< 4.06	< 5.38	< 4.33
bis(2-Chloroethoxy)methane	111-91-1	< 4.46	< 3.31	< 3.42	< 6.77	< 40.91	< 40.03	< 3.06	< 4.05	< 4	< 5.12	< 4.26
Benzoic acid	65-85-0	99.45	< 12.46	< 11.72	< 16.57	925.28	1100.98	< 11.54	< 15.28	50.24	< 9.53	989.81
2,4-Dichlorophenol	120-83-2	< 4.5	< 4.14	< 3.45	< 7.41	< 44.72	< 43.76	< 3.83	< 5.08	< 4.04	< 5.99	< 4.3
1,2,4-Trichlorobenzene	120-82-1	< 3.93	< 3.28	< 3.02	< 6.66	< 40.2	< 39.34	< 3.04	< 4.02	< 3.53	< 5.15	< 3.76
Naphthalene	91-20-3	32.02	63.27	157.72	43.41	42.24	36.93	11.49	122.49	9.53	23.43	24.44
4-Chloroaniline	106-47-8	< 3.18	< 2.68	< 2.44	< 5.33	< 32.2	< 31.51	< 2.49	< 3.29	< 2.85	< 4.14	< 3.03
Hexachlorobutadiene	87-68-3	< 6.04	< 5.21	< 4.63	< 11.52	25.45	33.05	< 4.83	< 6.39	< 5.42	< 9.48	4.53
4-Chloro-3-methylphenol	59-50-7	< 4.47	< 4.27	< 3.43	< 6.86	< 41.4	< 40.51	< 3.96	< 5.24	< 4.01	< 5.3	< 4.27
2-Methylnaphthalene	91-57-6	11.37	168.73	36.17	14.96	15.29	7.53	< 1.69	6.38	1.21	1.17	25.06
Hexachlorocyclopentadiene	77-47-4	< 6.46	< 4.51	< 3.99	< 9.24	< 69.63	< 69.98	< 3.89	< 5.64	< 4.25	< 7.32	< 5.67
2,4,6-Trichlorophenol	88-06-2	< 6.14	< 4.74	< 3.79	< 7.51	< 56.63	< 56.91	< 4.09	< 5.93	< 4.04	< 6.43	< 5.39
2,4,5-Trichlorophenol	95-95-4	< 5.79	< 4.81	< 3.58	< 6.79	< 51.18	< 51.44	< 4.15	< 6.02	< 3.81	< 5.69	< 5.08
2-Chloronaphthalene	91-58-7	< 2.32	< 1.57	< 1.43	< 2.53	< 19.04	< 19.13	< 1.35	< 1.96	< 1.53	< 2.1	< 2.04
2-Nitroaniline	88-74-4	< 7.13	< 5.59	< 4.41	< 7.26	< 54.74	< 55.01	< 4.82	< 6.99	< 4.69	< 5.88	< 6.26
Dimethylphthalate	131-11-3	< 1.75	< 1.26	< 1.08	1.41	< 14.39	< 14.47	1.27	4.08	< 1.15	10.67	< 1.54
2,6-Dinitrotoluene	606-20-2	< 7.37	< 5.36	< 4.55	< 7.73	< 58.3	< 58.59	< 4.62	< 6.7	< 4.85	< 6.24	< 6.47
2,4-Dinitrotoluene	121-14-2	< 4.9	< 3.49	< 3.03	< 5.08	< 38.26	< 38.45	< 3.01	< 4.36	< 3.23	< 4.15	< 4.31
Acenaphthylene	208-96-8	< 1.37	3.12	< 0.85	5.68	< 10.72	< 10.77	1.15	1.13	< 0.9	< 1.2	9.38
3-Nitroaniline	99-09-2	< 5.82	< 4.31	< 3.6	< 6.6	< 49.76	< 50.01	< 3.71	< 5.38	< 3.83	< 5.21	< 5.11
Acenaphthene	83-32-9	< 2.47	3.14	< 1.52	< 2.61	< 19.67	< 19.76	< 1.48	0.93	< 1.62	< 2.01	< 2.17

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 4 Autoclave Speciated Semivolatiles Summary

Water Trap

Compound	CAS #	Cmpd.#4 µg/L	Cmpd.#5 µg/L	Cmpd.#6 µg/L	Cmpd.#8 µg/L	Cmpd.#9* µg/L	Cmpd.#9 µg/L	Cmpd.#11 µg/L	Cmpd.#15 µg/L	Cmpd.#18 µg/L	Cmpd.#21 µg/L	Cmpd.#22 µg/L
2,4-Dinitrophenol	105-67-9	< 14.49	< 15.77	< 8.96	< 17.08	< 128.8	< 129.43	< 13.6	< 19.72	< 9.54	< 14.49	< 12.73
4-Nitrophenol	100-02-7	< 7.25	< 6.25	< 4.48	< 10.41	< 78.51	< 78.9	< 5.39	< 7.81	< 4.77	< 9.34	< 6.36
Dibenzofuran	132-64-9	< 1.62	5.74	< 1	< 1.71	< 12.91	< 12.98	< 0.97	1.04	< 1.07	< 1.36	< 1.42
Diethylphthalate	84-66-2	< 1.5	< 1.15	< 0.92	< 1.68	< 12.63	< 12.69	< 0.99	1.22	< 0.98	< 1.39	< 1.31
4-Chlorophenyl-phenylether	70005-72-3	< 3.85	< 2.75	< 2.38	< 4.31	< 32.46	< 32.63	< 2.37	< 3.43	< 2.54	< 3.68	< 3.38
Fluorene	86-73-7	< 2.03	7.56	< 1.25	< 2.11	< 15.94	< 16.02	< 1.21	0.79	< 1.33	< 1.71	< 1.78
4-Nitroaniline	100-01-6	< 5.36	< 3.43	< 3.31	< 5.69	< 42.93	< 43.14	< 2.96	< 4.29	< 3.53	< 5.03	< 4.71
4,6-Dinitro-2-methylphenol	534-52-1	< 7.92	< 8.03	< 4.26	< 8.2	< 74.96	< 73.05	< 6.26	< 9.57	< 7.23	< 7.92	< 9.91
4-Bromophenyl-phenylether	101-55-3	< 5.4	< 4.92	< 2.9	< 6.08	< 55.6	< 54.19	< 3.84	< 5.86	< 4.93	< 5.73	< 6.75
Hexachlorobenzene	118-74-1	< 4.16	< 3.59	< 2.23	< 4.89	< 44.69	< 43.55	< 2.8	< 4.28	< 3.79	< 4.59	< 5.2
Pentachlorophenol	87-86-5	< 5.86	301.04	< 3.15	< 7.19	< 65.8	< 64.12	247.36	< 8.33	< 5.35	< 6.46	< 7.33
Phenanthrene	85-01-8	6.7	10.83	42.69	9.36	8.23	10.21	1.52	3.29	1.25	1.27	7.88
Anthracene	120-12-7	< 1.03	2.24	< 0.56	< 1.07	< 9.82	< 9.57	0.33	< 1	< 0.94	< 0.98	< 1.29
Di-n-butylphthalate	84-74-2	< 0.6	1.89	< 0.32	< 0.64	8.69	13.24	4.25	136.33	0.86	48.99	4.07
Fluoranthene	206-44-0	4.04	0.94	6.65	5.38	11.68	18.67	1	2.55	< 0.73	7.58	11.32
Pyrene	129-00-0	16.65	5.98	55.82	25.76	49.04	77.92	7.92	15.62	< 0.43	6.2	30.63
Butylbenzylphthalate	85-68-7	< 0.79	< 0.7	< 0.48	< 1.37	< 12.2	< 12.34	< 0.67	< 0.87	< 0.77	< 1.16	< 0.83
3,3'-Dichlorobenzidine	91-94-1	< 2.13	< 1.77	< 1.32	< 3.53	< 31.44	< 31.81	< 1.68	< 2.18	< 2.1	< 3.18	< 2.26
bis(2-Ethylhexyl)phthalate	117-81-7	169.54	147.22	841.77	63.69	41.95	42.35	234.49	324.89	12.31	225	46.12
Benzo(a)anthracene	56-55-3	< 0.6	< 0.51	< 0.37	< 1.05	< 9.32	< 9.43	< 0.48	< 0.62	< 0.59	< 0.87	< 0.63
Chrysene	218-01-9	< 0.66	< 0.54	< 0.41	< 1.16	< 10.34	< 10.46	< 0.51	< 0.67	< 0.65	< 0.96	< 0.7
Di-n-octylphthalate	117-84-0	< 0.54	< 0.33	< 1.8	0.89	< 4.77	< 4.88	1.93	3.18	< 0.48	3.41	< 0.51
Benzo(b)fluoranthene	205-99-2	< 1.03	< 0.57	< 3.43	< 1.94	< 7.86	< 8.03	< 0.47	< 0.54	< 0.9	< 0.91	< 0.97
Benzo(k)fluoranthene	207-08-9	< 1.11	< 0.6	< 3.69	< 2.04	< 8.27	< 8.46	< 0.5	< 0.57	< 0.97	< 0.94	< 1.04
Benzo(a)pyrene	50-32-8	< 1.13	< 0.62	< 3.75	< 2.1	< 8.49	< 8.68	< 0.52	< 0.59	< 0.99	< 0.98	< 1.06
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.15	< 0.66	< 3.81	< 1.87	< 7.57	< 7.74	< 0.55	< 0.63	< 1.01	< 0.89	< 1.08
Dibenz(a,h)anthracene	53-90-3	< 1.57	< 0.78	< 5.21	< 2.41	< 9.78	< 10	< 0.64	< 0.74	< 1.37	< 1.15	< 1.47
Benzo(g,h,i)perylene	191-24-2	< 1.35	< 0.64	< 4.49	< 2.15	< 8.7	< 8.9	< 0.53	< 0.61	< 1.18	< 1	< 1.27
3-Furaldehyde	498-60-2	< 11.38	< 7.74	< 11.37	< 23.05	< 80.17	< 80.09	< 6.9	< 7.81	< 9.81	< 14.49	< 10.82
2-Furaldehyde	98-01-1	< 9.45	< 6.61	< 9.44	< 20.18	< 70.21	< 70.14	< 5.89	< 6.67	< 8.15	4.76	4.5
Cyclohexylamine	108-91-8	77695.92	48077.35	203678.74	4634.95	467.77	48.42	108.6	503.88		232.57	< 4.36
N-Nitrosodiethylamine	55-18-5	< 12.12	< 9.53	< 12.12	< 26.11	< 90.83	< 90.74	< 8.5	< 9.61	< 10.46	< 16.2	< 11.53
Cyclohexanone	108-94-1	7932.95	4886.35	18228.43	408.58	175.02	77.87	250.1	256.18	483.51	160.38	77.48
1,3-Cyclooctadiene	1700-10-3	< 5.68	< 4.27	< 5.68	< 13.47	< 46.86	< 46.81	< 3.81	< 4.31	< 4.9	< 7.84	< 5.4
1,5-Cyclooctadiene	111-78-4	< 12.41	< 8.78	< 12.4	< 29.11	< 101.28	< 101.17	< 7.83	4.48	< 10.7	< 16.69	< 11.8

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 4 Autoclave Speciated Semivolatiles Summary

Water Trap

Compound	CAS #	Cmpd.#4 µg/L	Cmpd.#5 µg/L	Cmpd.#6 µg/L	Cmpd.#8 µg/L	Cmpd.#9* µg/L	Cmpd.#9 µg/L	Cmpd.#11 µg/L	Cmpd.#15 µg/L	Cmpd.#18 µg/L	Cmpd.#21 µg/L	Cmpd.#22 µg/L
Camphene	79-92-5	< 5.76	< 4.6	< 5.75	< 14.09	< 49.01	< 48.96	< 4.1	< 4.64	< 4.97	< 8.53	< 5.48
Benzaldehyde	100-52-7	< 7.63	< 5.96	< 7.62	< 17.9	< 62.28	< 62.22	10.16	67.15	6.6	43.98	21.44
Benzonitrile	100-47-0	< 2.74	< 2.02	< 2.74	< 6.26	< 21.78	< 21.76	< 1.8	< 2.04	< 2.36	< 3.7	< 2.61
Isooctanol	26952-21-6	199.86	< 54.51	7171.68	< 141.5	5784.12	4259.09	< 48.62	< 55.02	18618.95	< 99.16	659.83
1,2,4-Trimethylbenzene	95-63-6	48.24	24.06	83.48	2.49	< 19.78	33.78	1.35	22.13	< 2.12	4.42	6.86
3-Methylstyrene	100-80-1	< 3.64	< 2.92	< 3.64	< 9.63	< 33.49	< 33.45	< 2.6	5.9	< 3.14	< 5.92	< 3.46
4-Methylstyrene	622-97-9	< 3.83	< 3.12	< 3.83	< 10.1	< 35.13	< 35.1	< 2.79	2.19	< 3.3	< 5.92	< 3.64
4-Chlorostyrene	1073-67-2	< 4.42	< 3.51	< 4.42	< 11.34	< 39.46	< 39.42	40.27	< 3.55	< 3.81	< 6.87	< 4.2
1-Dodecene	112-41-4	< 23.29	< 17.15	< 17.86	< 40.29	< 210.74	< 206.22	< 15.89	< 21.33	< 20.9	< 25.58	< 22.25
Phthalimide	85-41-6	< 5.6	< 3.84	< 3.46	< 7.3	< 55.04	< 55.32	< 3.31	5.48	< 3.69	< 5.3	< 4.92
Diphenylamine	122-39-4	108.64	99.15	1611.82	4.21	2293.73	2416.48	302.42	13.21	19.86	1.73	138.57
n-Nitrosodimethylamine	62-75-9	< 21.47	< 9.84	< 21.47	< 21.8	< 102.87	< 102.77	< 8.77	< 9.93	< 18.53	< 8.82	< 20.43
Cumene	98-82-8	< 2.68	1.63	1.82	< 3.8	35.73	181.43	< 1.7	< 1.93	2.41	5.4	2.66
Aniline	62-53-3	4606.48	5756.1	10930.7	398.22	1535.77	88.57	1227.72	15.37	853.47	3.29	3257.24
Benzyl Chloride	100-44-7	< 2.54	< 1.95	< 2.53	< 5.32	< 25.1	< 25.07	< 1.74	< 1.97	< 2.19	< 1.75	< 2.41
Acetophenone	.98-86-2	69.39	67.22	316.2	24.56	200907.33	218148.34	36.97	128.46	84.01	93.3	526.45
n-Nitrosomorpholine	59-89-2	< 7.81	< 6.48	< 7.81	< 13.98	< 65.96	< 65.89	< 5.78	< 6.54	< 6.74	< 5.81	< 7.43
o-Toluidine	95-53-4	87.65	< 2.94	5855.23	< 6.88	< 32.49	< 32.46	< 2.63	< 2.97	29.97	< 2.64	30.05
N,N-Dimethylaniline	121-69-7	< 3.26	< 2.47	< 2.5	4.49	< 30.7	< 30.04	< 2.28	< 3.05	< 2.93	< 2.14	< 3.12
1,2-Dibromo-3-chloropropane	96-12-8	< 8.63	< 6.91	< 8.63	< 19.71	< 93.05	< 92.95	< 6.16	< 6.97	< 7.44	< 6.2	< 8.21
o-Anisidine	90-04-0	< 5.41	< 4.68	< 4.15	< 9.72	< 58.69	< 57.43	< 4.33	< 5.78	< 4.86	< 4.06	< 5.17
1,4-Phenylenediamine	106-50-3	< 6.55	< 4.73	< 5.02	< 7.31	< 60.74	< 59.43	< 4.39	< 5.85	< 5.88	< 4.11	< 6.26
N,N-Diethylaniline	91-66-7	< 3	< 2.6	< 3	< 5.25	< 24.77	< 24.75	< 2.32	< 2.63	< 2.59	< 2.33	< 2.86
a,a,a-Trichlorotoluene	98-07-7	< 3.01	< 2.64	< 2.31	< 5.76	< 34.77	< 34.03	< 2.45	< 3.27	< 2.7	< 2.29	< 2.87
Hydroquinone	123-31-9	< 3.91	< 3.65	< 3	< 8.11	< 48.97	< 47.92	< 3.38	< 4.52	< 3.51	< 3.17	< 3.74
2-Chloroacetophenone	1341-24-8	< 2.23	< 1.95	< 1.71	< 3.38	< 20.39	19.53	< 1.81	< 2.41	< 2	< 1.69	< 2.13
Biphenyl	92-52-4	7.33	31.22	73.94	6.31	19.19	< 20.21	0.68	5.66	< 1.64	1.05	27.92
Trifluralin	1582-09-8	< 7.01	< 6.61	< 5.38	< 12.27	< 92.52	< 92.97	< 5.7	< 8.26	< 5.73	< 4.56	< 7.65
4-Aminobiphenyl	92-67-1	< 1.58	< 1.24	< 0.85	< 1.68	< 15.4	< 15.01	< 0.97	< 1.48	< 1.44	< 0.79	< 1.97
Pentachloronitrobenzene	82-68-8	< 9.1	< 8.32	< 4.89	< 11.36	< 103.89	< 101.24	< 6.49	< 9.91	< 8.31	< 5.3	< 11.38
4-Nitrobiphenyl	92-93-3	< 2.56	< 2.23	< 1.38	< 2.92	< 26.73	< 26.05	< 1.74	< 2.65	< 2.34	< 1.42	< 3.2
Benzidine	92-87-5	< 0.99	< 0.94	< 0.61	17.74	< 19.06	< 19.28	< 0.89	< 1.16	< 0.98	< 0.83	< 1.05
4,4'-Methylenedianiline	101-77-9	< 2.41	< 2.09	< 1.49	< 4.43	< 39.42	< 39.89	< 1.98	< 2.57	< 2.37	< 1.85	< 2.56
Dimethylaminoazobenzene	60-11-7	< 1.36	< 1.3	< 0.84	< 2.59	< 23.05	< 23.33	< 1.23	< 1.6	< 1.34	< 1.15	< 1.44
3,3'-Dimethylbenzidine	119-93-7	< 1.19	< 0.96	< 0.73	< 2.36	< 20.98	< 21.22	< 0.91	< 1.18	< 1.17	< 0.85	< 1.26
3,3'-Dimethoxybenzidine	119-90-4	< 4.5	< 3.48	< 2.78	< 7.24	< 64.38	< 65.14	< 3.3	< 4.29	< 4.44	< 3.08	< 4.78
Methylene bis-chloroaniline	101-14-4	< 4.17	< 3.16	< 2.57	< 8.05	< 71.62	< 72.46	< 2.99	< 3.89	< 4.11	< 2.8	< 4.43
TOTAL Detected		91134.4	59766.98	249092.86	5672.09	210784.56	226849.07	2506.26	1828.19	20192.62	906.41	5999.35
TOTAL with non-detects		< 91591.2	< 60170.74	< 249495.55	< 6564.22	< 214795.3	< 230851.33	< 2863.26	< 2263.01	< 20565.29	< 1455.73	< 6412.41

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 4 Autoclave Speciated Semivolatiles Summary

Water Trap

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
Pyridine	110-86-1	< 1.13E-06	2.42E-06	< 1.13E-06	< 1.10E-06	< 5.21E-06	< 5.21E-06	< 5.63E-07	2.55E-06	< 9.76E-07	3.66E-07	< 1.08E-06
Phenol	108-95-2	< 4.74E-07	< 3.56E-07	< 4.74E-07	< 7.57E-07	4.59E-05	2.52E-05	< 3.17E-07	< 3.59E-07	< 4.09E-07	4.15E-07	< 4.51E-07
bis(2-Chloroethyl)ether	111-44-4	< 6.49E-07	< 4.73E-07	< 6.49E-07	< 1.08E-06	< 5.11E-06	< 5.11E-06	< 4.21E-07	< 4.77E-07	< 5.60E-07	< 8.86E-07	< 6.18E-07
2-Chlorophenol	95-57-8	< 4.31E-07	< 3.48E-07	< 4.31E-07	< 7.88E-07	< 3.72E-06	< 3.72E-06	< 3.11E-07	< 3.51E-07	< 3.72E-07	< 6.87E-07	< 4.11E-07
1,3-Dichlorobenzene	541-73-1	< 4.05E-07	< 3.29E-07	< 4.05E-07	< 7.13E-07	< 3.36E-06	< 3.36E-06	< 2.93E-07	< 3.32E-07	< 3.49E-07	< 6.25E-07	< 3.86E-07
1,4-Dichlorobenzene	106-46-7	< 4.08E-07	1.03E-07	< 4.08E-07	< 7.11E-07	1.16E-06	< 3.35E-06	< 2.77E-07	< 3.14E-07	< 3.53E-07	< 6.13E-07	< 3.89E-07
1,2-Dichlorobenzene	95-50-1	< 4.30E-07	< 3.48E-07	< 4.30E-07	< 7.71E-07	< 3.64E-06	< 3.63E-06	< 3.11E-07	< 3.51E-07	< 3.71E-07	< 6.68E-07	< 4.09E-07
2,2'-oxybis(1-Chloropropane)	108-60-1	< 6.91E-07	< 4.95E-07	< 6.91E-07	< 9.82E-07	< 4.64E-06	< 4.63E-06	< 4.42E-07	< 5.00E-07	< 5.96E-07	< 7.39E-07	< 6.58E-07
Benzyl alcohol	100-51-6	< 8.20E-07	< 6.86E-07	< 8.19E-07	< 1.40E-06	< 6.59E-06	< 6.58E-06	< 6.12E-07	< 6.92E-07	< 7.07E-07	< 1.20E-06	2.38E-06
2-Methylphenol	95-48-7	< 6.15E-07	< 4.91E-07	< 6.15E-07	< 1.03E-06	< 4.84E-06	< 4.84E-06	2.68E-07	< 4.95E-07	5.42E-07	< 8.78E-07	< 5.85E-07
3/4-Methylphenol	108-39-4/106-44-5	< 5.74E-07	< 4.92E-07	< 5.74E-07	< 9.50E-07	< 4.48E-06	< 4.48E-06	1.37E-06	< 4.97E-07	< 4.95E-07	< 8.08E-07	< 5.46E-07
N-Nitroso-di-n-propylamine	621-64-7	< 8.75E-07	< 7.15E-07	< 8.75E-07	< 1.51E-06	< 7.13E-06	< 7.12E-06	< 6.37E-07	< 7.21E-07	< 7.56E-07	< 1.30E-06	< 8.33E-07
Hexachloroethane	67-72-1	< 7.01E-07	< 6.28E-07	< 7.00E-07	< 1.43E-06	< 6.73E-06	< 6.72E-06	< 5.60E-07	1.62E-05	< 6.04E-07	2.21E-06	< 6.66E-07
Nitrobenzene	98-95-3	< 4.83E-07	< 3.66E-07	< 3.70E-07	< 6.91E-07	< 4.18E-06	< 4.09E-06	< 3.40E-07	< 4.49E-07	< 4.33E-07	< 5.21E-07	< 4.61E-07
Isophorone	78-59-1	4.10E-06	8.46E-06	< 1.92E-07	< 3.84E-07	< 2.32E-06	< 2.27E-06	< 1.97E-07	< 2.60E-07	1.44E-06	< 3.04E-07	7.63E-06
2-Nitrophenol	88-75-5	< 7.40E-07	< 6.56E-07	< 5.67E-07	< 1.14E-06	< 6.86E-06	< 6.71E-06	< 6.07E-07	< 8.04E-07	< 6.64E-07	< 9.21E-07	< 7.07E-07
2,4-Dimethylphenol	105-67-9	< 4.87E-07	< 4.34E-07	< 3.73E-07	< 7.72E-07	< 4.66E-06	< 4.56E-06	< 4.02E-07	< 5.32E-07	< 4.36E-07	< 5.78E-07	< 4.65E-07
bis(2-Chloroethoxy)methane	111-91-1	< 4.79E-07	< 3.56E-07	< 3.68E-07	< 7.28E-07	< 4.40E-06	< 4.30E-06	< 3.29E-07	< 4.35E-07	< 4.30E-07	< 5.50E-07	< 4.58E-07
Benzoic acid	65-85-0	1.07E-05	< 1.34E-06	< 1.26E-06	< 1.78E-06	9.94E-05	1.18E-04	< 1.24E-06	< 1.64E-06	5.40E-06	< 1.02E-06	1.06E-04
2,4-Dichlorophenol	120-83-2	< 4.84E-07	< 4.45E-07	< 3.71E-07	< 7.96E-07	< 4.81E-06	< 4.70E-06	< 4.12E-07	< 5.46E-07	< 4.34E-07	< 6.44E-07	< 4.62E-07
1,2,4-Trichlorobenzene	120-82-1	< 4.22E-07	< 3.53E-07	< 3.25E-07	< 7.16E-07	< 4.32E-06	< 4.23E-06	< 3.27E-07	< 4.32E-07	< 3.79E-07	< 5.53E-07	< 4.04E-07
Naphthalene	91-20-3	3.44E-06	6.80E-06	1.70E-05	4.67E-06	4.54E-06	3.97E-06	1.23E-06	1.32E-05	1.02E-06	2.52E-06	2.63E-06
4-Chloroaniline	106-47-8	< 3.42E-07	< 2.88E-07	< 2.62E-07	< 5.73E-07	< 3.46E-06	< 3.39E-06	< 2.68E-07	< 3.54E-07	< 3.06E-07	< 4.45E-07	< 3.26E-07
Hexachlorobutadiene	87-68-3	< 6.49E-07	< 5.60E-07	< 4.98E-07	< 1.24E-06	2.74E-06	3.55E-06	< 5.19E-07	< 6.87E-07	< 5.83E-07	< 1.02E-06	4.87E-07
4-Chloro-3-methylphenol	59-50-7	< 4.80E-07	< 4.59E-07	< 3.69E-07	< 7.37E-07	< 4.45E-06	< 4.35E-06	< 4.26E-07	< 5.63E-07	< 4.31E-07	< 5.70E-07	< 4.59E-07
2-Methylnaphthalene	91-57-6	1.22E-06	1.81E-05	3.89E-06	1.61E-06	1.64E-06	8.09E-07	< 1.82E-07	6.86E-07	1.30E-07	1.26E-07	2.69E-06
Hexachlorocyclopentadiene	77-47-4	< 6.94E-07	< 4.85E-07	< 4.29E-07	< 9.93E-07	< 7.48E-06	< 7.52E-06	< 4.18E-07	< 6.06E-07	< 4.57E-07	< 7.87E-07	< 6.09E-07
2,4,6-Trichlorophenol	88-06-2	< 6.60E-07	< 5.09E-07	< 4.07E-07	< 8.07E-07	< 6.09E-06	< 6.12E-06	< 4.40E-07	< 6.37E-07	< 4.34E-07	< 6.91E-07	< 5.79E-07
2,4,5-Trichlorophenol	95-95-4	< 6.22E-07	< 5.17E-07	< 3.85E-07	< 7.30E-07	< 5.50E-06	< 5.53E-06	< 4.46E-07	< 6.47E-07	< 4.09E-07	< 6.12E-07	< 5.46E-07
2-Chloronaphthalene	91-58-7	< 2.49E-07	< 1.69E-07	< 1.54E-07	< 2.72E-07	< 2.05E-06	< 2.06E-06	< 1.45E-07	< 2.11E-07	< 1.64E-07	< 2.26E-07	< 2.19E-07
2-Nitroaniline	88-74-4	< 7.66E-07	< 6.01E-07	< 4.74E-07	< 7.80E-07	< 5.88E-06	< 5.91E-06	< 5.18E-07	< 7.51E-07	< 5.04E-07	< 6.32E-07	< 6.73E-07
Dimethylphthalate	131-11-3	< 1.88E-07	< 1.35E-07	< 1.16E-07	1.52E-07	< 1.55E-06	< 1.56E-06	1.36E-07	4.38E-07	< 1.24E-07	1.15E-06	< 1.66E-07
2,6-Dinitrotoluene	606-20-2	< 7.92E-07	< 5.76E-07	< 4.89E-07	< 8.31E-07	< 6.27E-06	< 6.30E-06	< 4.97E-07	< 7.20E-07	< 5.21E-07	< 6.71E-07	< 6.95E-07
2,4-Dinitrotoluene	121-14-2	< 5.27E-07	< 3.75E-07	< 3.26E-07	< 5.46E-07	< 4.11E-06	< 4.13E-06	< 3.23E-07	< 4.69E-07	< 3.47E-07	< 4.46E-07	< 4.63E-07
Acenaphthylene	208-96-8	< 1.47E-07	3.35E-07	< 9.14E-08	6.10E-07	< 1.15E-06	< 1.16E-06	1.24E-07	1.21E-07	< 9.67E-08	< 1.29E-07	1.01E-06
3-Nitroaniline	99-09-2	< 6.25E-07	< 4.63E-07	< 3.87E-07	< 7.09E-07	< 5.35E-06	< 5.37E-06	< 3.99E-07	< 5.78E-07	< 4.12E-07	< 5.60E-07	< 5.49E-07
Acenaphthene	83-32-9	< 2.65E-07	3.37E-07	< 1.63E-07	< 2.81E-07	< 2.11E-06	< 2.12E-06	< 1.59E-07	1.00E-07	< 1.74E-07	< 2.16E-07	< 2.33E-07

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 4 Autoclave Speciated Semivolatiles Summary

Water Trap

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
2,4-Dinitrophenol	105-67-9	< 1.56E-06	< 1.69E-06	< 9.63E-07	< 1.84E-06	< 1.38E-05	< 1.39E-05	< 1.46E-06	< 2.12E-06	< 1.03E-06	< 1.56E-06	< 1.37E-06
4-Nitrophenol	100-02-7	< 7.79E-07	< 6.72E-07	< 4.81E-07	< 1.12E-06	< 8.44E-06	< 8.48E-06	< 5.79E-07	< 8.39E-07	< 5.13E-07	< 1.00E-06	< 6.84E-07
Dibenzofuran	132-64-9	< 1.74E-07	6.17E-07	< 1.07E-07	< 1.84E-07	< 1.39E-06	< 1.40E-06	< 1.04E-07	1.12E-07	< 1.15E-07	< 1.46E-07	< 1.53E-07
Diethylphthalate	84-66-2	< 1.61E-07	< 1.24E-07	< 9.89E-08	< 1.81E-07	< 1.36E-06	< 1.36E-06	< 1.06E-07	1.31E-07	< 1.05E-07	< 1.49E-07	< 1.41E-07
4-Chlorophenyl-phenylether	70005-72-3	< 4.14E-07	< 2.96E-07	< 2.56E-07	< 4.63E-07	< 3.49E-06	< 3.51E-06	< 2.55E-07	< 3.69E-07	< 2.73E-07	< 3.96E-07	< 3.63E-07
Fluorene	86-73-7	< 2.18E-07	8.13E-07	< 1.34E-07	< 2.27E-07	< 1.71E-06	< 1.72E-06	< 1.30E-07	8.49E-08	< 1.43E-07	< 1.84E-07	< 1.91E-07
4-Nitroaniline	100-01-6	< 5.76E-07	< 3.69E-07	< 3.56E-07	< 6.12E-07	< 4.61E-06	< 4.64E-06	< 3.18E-07	< 4.61E-07	< 3.79E-07	< 5.41E-07	< 5.06E-07
4,6-Dinitro-2-methylphenol	534-52-1	< 8.51E-07	< 8.63E-07	< 4.58E-07	< 8.81E-07	< 8.06E-06	< 7.85E-06	< 6.73E-07	< 1.03E-06	< 7.77E-07	< 8.51E-07	< 1.07E-06
4-Bromophenyl-phenylether	101-55-3	< 5.80E-07	< 5.29E-07	< 3.12E-07	< 6.53E-07	< 5.98E-06	< 5.82E-06	< 4.13E-07	< 6.30E-07	< 5.30E-07	< 6.16E-07	< 7.25E-07
Hexachlorobenzene	118-74-1	< 4.47E-07	< 3.86E-07	< 2.40E-07	< 5.26E-07	< 4.80E-06	< 4.68E-06	< 3.01E-07	< 4.60E-07	< 4.07E-07	< 4.93E-07	< 5.59E-07
Pentachlorophenol	87-86-5	< 6.30E-07	5.24E-05	< 3.39E-07	< 7.73E-07	< 7.07E-06	< 6.89E-06	2.66E-05	< 8.95E-07	< 5.75E-07	< 6.94E-07	< 7.88E-07
Phenanthrene	85-01-8	7.20E-07	1.16E-06	4.59E-06	1.01E-06	8.85E-07	1.10E-06	1.63E-07	3.54E-07	1.34E-07	1.36E-07	8.47E-07
Anthracene	120-12-7	< 1.11E-07	2.41E-07	< 6.02E-08	< 1.15E-07	< 1.06E-06	< 1.03E-06	3.55E-08	< 1.07E-07	< 1.01E-07	< 1.05E-07	< 1.39E-07
Di-n-butylphthalate	84-74-2	< 6.45E-08	2.03E-07	< 3.44E-08	< 6.88E-08	9.34E-07	1.42E-06	4.57E-07	1.47E-05	9.24E-08	5.27E-06	4.37E-07
Fluoranthene	206-44-0	4.34E-07	1.01E-07	7.15E-07	5.78E-07	1.26E-06	2.01E-06	1.07E-07	2.74E-07	< 7.85E-08	8.15E-07	1.22E-06
Pyrene	129-00-0	1.79E-06	6.43E-07	6.00E-06	2.77E-06	5.27E-06	8.37E-06	8.51E-07	1.68E-06	< 4.62E-08	6.66E-07	3.29E-06
Butylbenzylphthalate	85-68-7	< 8.49E-08	< 7.52E-08	< 5.16E-08	< 1.47E-07	< 1.31E-06	< 1.33E-06	< 7.20E-08	< 9.35E-08	< 8.28E-08	< 1.25E-07	< 8.92E-08
3,3'-Dichlorobenzidine	91-94-1	< 2.29E-07	< 1.90E-07	< 1.42E-07	< 3.79E-07	< 3.38E-06	< 3.42E-06	< 1.81E-07	< 2.34E-07	< 2.26E-07	< 3.42E-07	< 2.43E-07
bis(2-Ethylhexyl)phthalate	117-81-7	1.82E-05	1.58E-05	9.05E-05	6.84E-06	4.51E-06	4.55E-06	2.52E-05	3.49E-05	1.32E-06	2.42E-05	4.96E-06
Benzo(a)anthracene	56-55-3	< 6.45E-08	< 5.48E-08	< 3.98E-08	< 1.13E-07	< 1.00E-06	< 1.01E-06	< 5.16E-08	< 6.66E-08	< 6.34E-08	< 9.35E-08	< 6.77E-08
Chrysene	218-01-9	< 7.09E-08	< 5.80E-08	< 4.41E-08	< 1.25E-07	< 1.11E-06	< 1.12E-06	< 5.48E-08	< 7.20E-08	< 6.99E-08	< 1.03E-07	< 7.52E-08
Di-n-octylphthalate	117-84-0	< 5.80E-08	< 3.55E-08	< 1.93E-07	9.57E-08	< 5.13E-07	< 5.24E-07	2.07E-07	3.42E-07	< 5.16E-08	3.66E-07	< 5.48E-08
Benzo(b)fluoranthene	205-99-2	< 1.11E-07	< 6.13E-08	< 3.69E-07	< 2.08E-07	< 8.45E-07	< 8.63E-07	< 5.05E-08	< 5.80E-08	< 9.67E-08	< 9.78E-08	< 1.04E-07
Benzo(k)fluoranthene	207-08-9	< 1.19E-07	< 6.45E-08	< 3.97E-07	< 2.19E-07	< 8.89E-07	< 9.09E-07	< 5.37E-08	< 6.13E-08	< 1.04E-07	< 1.01E-07	< 1.12E-07
Benzo(a)pyrene	50-32-8	< 1.21E-07	< 6.66E-08	< 4.03E-07	< 2.26E-07	< 9.12E-07	< 9.33E-07	< 5.59E-08	< 6.34E-08	< 1.06E-07	< 1.05E-07	< 1.14E-07
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.24E-07	< 7.09E-08	< 4.09E-07	< 2.01E-07	< 8.14E-07	< 8.32E-07	< 5.91E-08	< 6.77E-08	< 1.09E-07	< 9.57E-08	< 1.16E-07
Dibenz(a,h)anthracene	53-90-3	< 1.69E-07	< 8.38E-08	< 5.60E-07	< 2.59E-07	< 1.05E-06	< 1.07E-06	< 6.88E-08	< 7.95E-08	< 1.47E-07	< 1.24E-07	< 1.58E-07
Benzo(g,h,i)perylene	191-24-2	< 1.45E-07	< 6.88E-08	< 4.83E-07	< 2.31E-07	< 9.35E-07	< 9.57E-07	< 5.70E-08	< 6.56E-08	< 1.27E-07	< 1.07E-07	< 1.36E-07
3-Furaldehyde	498-60-2	< 1.22E-06	< 8.32E-07	< 1.22E-06	< 2.48E-06	< 8.62E-06	< 8.61E-06	< 7.42E-07	< 8.39E-07	< 1.05E-06	< 1.56E-06	< 1.16E-06
2-Furaldehyde	98-01-1	< 1.02E-06	< 7.10E-07	< 1.01E-06	< 2.17E-06	< 7.55E-06	< 7.54E-06	< 6.33E-07	< 7.17E-07	< 8.76E-07	5.12E-07	4.84E-07
Cyclohexylamine	108-91-8	8.35E-03	5.17E-03	2.19E-02	4.98E-04	5.03E-05	5.20E-06	1.17E-05	5.42E-05		2.50E-05	< 4.69E-07
N-Nitrosodiethylamine	55-18-5	< 1.30E-06	< 1.02E-06	< 1.30E-06	< 2.81E-06	< 9.76E-06	< 9.75E-06	< 9.14E-07	< 1.03E-06	< 1.12E-06	< 1.74E-06	< 1.24E-06
Cyclohexanone	108-94-1	8.53E-04	5.25E-04	1.96E-03	4.39E-05	1.88E-05	8.37E-06	2.69E-05	2.75E-05	5.20E-05	1.72E-05	8.33E-06
1,3-Cyclooctadiene	1700-10-3	< 6.10E-07	< 4.59E-07	< 6.10E-07	< 1.45E-06	< 5.04E-06	< 5.03E-06	< 4.09E-07	< 4.63E-07	< 5.27E-07	< 8.43E-07	< 5.80E-07
1,5-Cyclooctadiene	111-78-4	< 1.33E-06	< 9.44E-07	< 1.33E-06	< 3.13E-06	< 1.09E-05	< 1.09E-05	< 8.42E-07	4.81E-07	< 1.15E-06	< 1.79E-06	< 1.27E-06

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 4 Autoclave Speciated SemivolatBes Summary

Water Trap

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
Camphene	79-92-5	< 6.19E-07	< 4.94E-07	< 6.18E-07	< 1.51E-06	< 5.27E-06	< 5.26E-06	< 4.41E-07	< 4.99E-07	< 5.34E-07	< 9.17E-07	< 5.89E-07
Benzaldehyde	100-52-7	< 8.20E-07	< 6.41E-07	< 8.19E-07	< 1.92E-06	< 6.69E-06	< 6.69E-06	1.09E-06	7.22E-06	7.09E-07	4.73E-06	2.30E-06
Benzonitrile	100-47-0	< 2.94E-07	< 2.17E-07	< 2.94E-07	< 6.73E-07	< 2.34E-06	< 2.34E-06	< 1.93E-07	< 2.19E-07	< 2.54E-07	< 3.98E-07	< 2.81E-07
Isooctanol	26952-21-6	2.15E-05	< 5.86E-06	7.71E-04	< 1.52E-05	4.07E-04	4.58E-04	< 5.23E-06	< 5.91E-06	2.00E-03	< 1.07E-05	7.09E-05
1,2,4-Trimethylbenzene	95-63-6	5.18E-06	2.59E-06	8.97E-06	2.68E-07	< 2.13E-06	3.63E-06	1.45E-07	2.38E-06	< 2.28E-07	4.75E-07	7.37E-07
3-Methylstyrene	100-80-1	< 3.91E-07	< 3.14E-07	< 3.91E-07	< 1.03E-06	< 3.60E-06	< 3.59E-06	< 2.79E-07	6.34E-07	< 3.37E-07	< 6.36E-07	< 3.72E-07
4-Methylstyrene	622-97-9	< 4.12E-07	< 3.35E-07	< 4.12E-07	< 1.09E-06	< 3.78E-06	< 3.77E-06	< 3.00E-07	2.35E-07	< 3.55E-07	< 6.36E-07	< 3.91E-07
4-Chlorostyrene	1073-67-2	< 4.75E-07	< 3.77E-07	< 4.75E-07	< 1.22E-06	< 4.24E-06	< 4.24E-06	4.33E-06	< 3.82E-07	< 4.09E-07	< 7.38E-07	< 4.51E-07
1-Dodecene	112-41-4	< 2.50E-06	< 1.84E-06	< 1.92E-06	< 4.33E-06	< 2.26E-05	< 2.22E-05	< 1.71E-06	< 2.29E-06	< 2.25E-06	< 2.75E-06	< 2.39E-06
Phthalimide	85-41-6	< 6.02E-07	< 4.13E-07	< 3.72E-07	< 7.85E-07	< 5.92E-06	< 5.95E-06	< 3.56E-07	5.89E-07	< 3.97E-07	< 5.70E-07	< 5.29E-07
Diphenylamine	122-39-4	1.17E-05	1.07E-05	1.73E-04	4.52E-07	2.47E-04	2.60E-04	3.25E-05	1.42E-06	2.13E-06	1.86E-07	1.49E-05
n-Nitrosodimethylamine	62-75-9	< 2.31E-06	< 1.06E-06	< 2.31E-06	< 2.34E-06	< 1.11E-05	< 1.10E-05	< 9.43E-07	< 1.07E-06	< 1.99E-06	< 9.48E-07	< 2.20E-06
Cumene	98-82-8	< 2.88E-07	1.75E-07	1.96E-07	< 4.08E-07	3.84E-06	1.95E-05	< 1.83E-07	< 2.07E-07	2.59E-07	5.80E-07	2.86E-07
Aniline	62-53-3	4.95E-04	6.19E-04	1.17E-03	4.28E-05	1.65E-04	9.52E-06	1.32E-04	1.65E-06	9.17E-05	3.54E-07	3.50E-04
Benzyl Chloride	100-44-7	< 2.73E-07	< 2.10E-07	< 2.72E-07	< 5.72E-07	< 2.70E-06	< 2.69E-06	< 1.87E-07	< 2.12E-07	< 2.35E-07	< 1.88E-07	< 2.59E-07
Acetophenone	98-86-2	7.46E-06	7.22E-06	3.40E-05	2.64E-06	2.16E-02	2.34E-02	3.97E-06	1.38E-05	9.03E-06	1.00E-05	5.66E-05
n-Nitrosomorpholine	59-89-2	< 8.39E-07	< 6.96E-07	< 8.39E-07	< 1.50E-06	< 7.09E-06	< 7.08E-06	< 6.21E-07	< 7.03E-07	< 7.24E-07	< 6.24E-07	< 7.99E-07
o-Toluidine	95-53-4	9.42E-06	< 3.16E-07	6.29E-04	< 7.39E-07	< 3.49E-06	< 3.49E-06	< 2.83E-07	< 3.19E-07	3.22E-06	< 2.84E-07	3.23E-06
N,N-Dimethylaniline	121-69-7	< 3.50E-07	< 2.65E-07	< 2.69E-07	4.83E-07	< 3.30E-06	< 3.23E-06	< 2.45E-07	< 3.28E-07	< 3.15E-07	< 2.30E-07	< 3.35E-07
1,2-Dibromo-3-chloropropane	96-12-8	< 9.27E-07	< 7.43E-07	< 9.27E-07	< 2.12E-06	< 1.00E-05	< 9.99E-06	< 6.62E-07	< 7.49E-07	< 8.00E-07	< 6.66E-07	< 8.82E-07
o-Anisidine	90-04-0	< 5.81E-07	< 5.03E-07	< 4.46E-07	< 1.04E-06	< 6.31E-06	< 6.17E-06	< 4.65E-07	< 6.21E-07	< 5.22E-07	< 4.36E-07	< 5.56E-07
1,4-Phenylenediamine	106-50-3	< 7.04E-07	< 5.08E-07	< 5.40E-07	< 7.86E-07	< 6.53E-06	< 6.39E-06	< 4.72E-07	< 6.29E-07	< 6.32E-07	< 4.42E-07	< 6.73E-07
N,N-Diethylaniline	91-66-7	< 3.22E-07	< 2.79E-07	< 3.22E-07	< 5.64E-07	< 2.66E-06	< 2.66E-06	< 2.49E-07	< 2.83E-07	< 2.78E-07	< 2.50E-07	< 3.07E-07
a,a,a-Trichlorotoluene	98-07-7	< 3.23E-07	< 2.84E-07	< 2.48E-07	< 6.19E-07	< 3.74E-06	< 3.66E-06	< 2.63E-07	< 3.51E-07	< 2.90E-07	< 2.46E-07	< 3.08E-07
Hydroquinone	123-31-9	< 4.20E-07	< 3.92E-07	< 3.22E-07	< 8.72E-07	< 5.26E-06	< 5.15E-06	< 3.63E-07	< 4.86E-07	< 3.77E-07	< 3.41E-07	< 4.02E-07
2-Chloroacetophenone	1341-24-8	< 2.40E-07	< 2.10E-07	< 1.84E-07	< 3.63E-07	< 2.19E-06	2.10E-06	< 1.95E-07	< 2.59E-07	< 2.15E-07	< 1.82E-07	< 2.29E-07
Biphenyl	92-52-4	7.88E-07	3.36E-06	7.95E-06	6.78E-07	2.06E-06	< 2.17E-06	7.31E-08	6.08E-07	< 1.76E-07	1.13E-07	3.00E-06
Trifluralin	1582-09-8	< 7.53E-07	< 7.10E-07	< 5.78E-07	< 1.32E-06	< 9.94E-06	< 9.99E-06	< 6.13E-07	< 8.88E-07	< 6.16E-07	< 4.90E-07	< 8.22E-07
4-Aminobiphenyl	92-67-1	< 1.70E-07	< 1.33E-07	< 9.14E-08	< 1.81E-07	< 1.66E-06	< 1.61E-06	< 1.04E-07	< 1.59E-07	< 1.55E-07	< 8.49E-08	< 2.12E-07
Pentachloronitrobenzene	82-68-8	< 9.78E-07	< 8.94E-07	< 5.26E-07	< 1.22E-06	< 1.12E-05	< 1.09E-05	< 6.98E-07	< 1.07E-06	< 8.93E-07	< 5.70E-07	< 1.22E-06
4-Nitrobiphenyl	92-93-3	< 2.75E-07	< 2.40E-07	< 1.48E-07	< 3.14E-07	< 2.87E-06	< 2.80E-06	< 1.87E-07	< 2.85E-07	< 2.51E-07	< 1.53E-07	< 3.44E-07
Benzidine	92-87-5	< 1.06E-07	< 1.01E-07	< 6.56E-08	1.91E-06	< 2.05E-06	< 2.07E-06	< 9.57E-08	< 1.25E-07	< 1.05E-07	< 8.92E-08	< 1.13E-07
4,4'-Methylenedianiline	101-77-9	< 2.59E-07	< 2.25E-07	< 1.60E-07	< 4.76E-07	< 4.24E-06	< 4.29E-06	< 2.13E-07	< 2.76E-07	< 2.55E-07	< 1.99E-07	< 2.75E-07
Dimethylaminoazobenzene	60-11-7	< 1.46E-07	< 1.40E-07	< 9.03E-08	< 2.78E-07	< 2.48E-06	< 2.51E-06	< 1.32E-07	< 1.72E-07	< 1.44E-07	< 1.24E-07	< 1.55E-07
3,3'-Dimethylbenzidine	119-93-7	< 1.28E-07	< 1.03E-07	< 7.85E-08	< 2.54E-07	< 2.25E-06	< 2.28E-06	< 9.78E-08	< 1.27E-07	< 1.26E-07	< 9.14E-08	< 1.35E-07
3,3'-Dimethoxybenzidine	119-90-4	< 4.84E-07	< 3.74E-07	< 2.99E-07	< 7.78E-07	< 6.92E-06	< 7.00E-06	< 3.55E-07	< 4.61E-07	< 4.77E-07	< 3.31E-07	< 5.14E-07
Methylene bis-chloroaniline	101-14-4	< 4.48E-07	< 3.40E-07	< 2.76E-07	< 8.65E-07	< 7.70E-06	< 7.79E-06	< 3.21E-07	< 4.18E-07	< 4.42E-07	< 3.01E-07	< 4.76E-07
TOTAL Detected		9.79E-03	6.42E-03	2.68E-02	6.10E-04	2.27E-02	2.44E-02	2.69E-04	1.96E-04	2.17E-03	9.74E-05	6.45E-04
TOTAL with non-detects		< 9.84E-03	< 6.47E-03	< 2.68E-02	< 7.05E-04	< 2.31E-02	< 2.48E-02	< 3.08E-04	< 2.43E-04	< 2.21E-03	< 1.56E-04	< 6.89E-04

* - Extraded, all other compounds are unextraded

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Table D.1 - 4 Autoclave Speciated Semivolatiles Summary

Water Trap

Compound	CAS #	Cmpd.#4 B/B rubber	Cmpd.#5 B/B rubber	Cmpd.#6 B/B rubber	Cmpd.#8 B/B rubber	Cmpd.#9* B/B rubber	Cmpd.#9 B/B rubber	Cmpd.#11 B/B rubber	Cmpd.#15 B/B rubber	Cmpd.#18 B/B rubber	Cmpd.#21 B/B rubber	Cmpd.#22 B/B rubber
Pyridine	110-86-1	< 1.50E-08	3.10E-08	< 1.80E-08	< 2.12E-08	< 7.35E-08	< 6.85E-08	< 7.21E-09	3.32E-08	< 1.34E-08	4.83E-09	< 1.39E-08
Phenol	108-95-2	< 6.28E-09	< 4.56E-09	< 7.54E-09	< 1.45E-08	6.48E-07	3.32E-07	< 4.06E-09	< 4.68E-09	< 5.63E-09	5.47E-09	< 5.85E-09
bis(2-Chloroethyl)ether	111-44-4	< 8.60E-09	< 6.06E-09	< 1.03E-08	< 2.08E-08	< 7.21E-08	< 6.72E-08	< 5.39E-09	< 6.22E-09	< 7.70E-09	< 1.17E-08	< 8.01E-09
2-Chlorophenol	95-57-8	< 5.71E-09	< 4.46E-09	< 6.86E-09	< 1.51E-08	< 5.24E-08	< 4.89E-08	< 3.97E-09	< 4.58E-09	< 5.11E-09	< 9.06E-09	< 5.32E-09
1,3-Dichlorobenzene	541-73-1	< 5.37E-09	< 4.21E-09	< 6.45E-09	< 1.37E-08	< 4.75E-08	< 4.42E-08	< 3.75E-09	< 4.33E-09	< 4.80E-09	< 8.25E-09	< 5.00E-09
1,4-Dichlorobenzene	106-46-7	< 5.41E-09	1.32E-09	< 6.50E-09	< 1.37E-08	1.63E-08	< 4.41E-08	< 3.55E-09	< 4.09E-09	< 4.84E-09	< 8.08E-09	< 5.04E-09
1,2-Dichlorobenzene	95-50-1	< 5.69E-09	< 4.46E-09	< 6.84E-09	< 1.48E-08	< 5.13E-08	< 4.78E-08	< 3.97E-09	< 4.58E-09	< 5.10E-09	< 8.81E-09	< 5.31E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 9.15E-09	< 6.35E-09	< 1.10E-08	< 1.89E-08	< 6.54E-08	< 6.09E-08	< 5.65E-09	< 6.52E-09	< 8.20E-09	< 9.75E-09	< 8.53E-09
Benzyl alcohol	100-51-6	< 1.09E-08	< 8.78E-09	< 1.30E-08	< 2.68E-08	< 9.29E-08	< 8.66E-08	< 7.82E-09	< 9.03E-09	< 9.72E-09	< 1.59E-08	3.09E-08
2-Methylphenol	95-48-7	< 8.14E-09	< 6.29E-09	< 9.78E-09	< 1.97E-08	< 6.83E-08	< 6.36E-08	3.42E-09	< 6.46E-09	7.44E-09	< 1.16E-08	< 7.58E-09
3/4-Methylphenol	108-39-4/106-44-5	< 7.60E-09	< 6.31E-09	< 9.13E-09	< 1.82E-08	< 6.33E-08	< 5.90E-08	1.76E-08	< 6.48E-09	< 6.81E-09	< 1.07E-08	< 7.08E-09
N-Nitroso-di-n-propylamine	621-64-7	< 1.16E-08	< 9.16E-09	< 1.39E-08	< 2.90E-08	< 1.01E-07	< 9.37E-08	< 8.15E-09	< 9.40E-09	< 1.04E-08	< 1.71E-08	< 1.08E-08
Hexachloroethane	67-72-1	< 9.28E-09	< 8.04E-09	< 1.11E-08	< 2.74E-08	< 9.49E-08	< 8.85E-08	< 7.16E-09	2.11E-07	< 8.30E-09	2.91E-08	< 8.64E-09
Nitrobenzene	98-95-3	< 6.39E-09	< 4.69E-09	< 5.88E-09	< 1.33E-08	< 5.89E-08	< 5.38E-08	< 4.35E-09	< 5.86E-09	< 5.95E-09	< 6.87E-09	< 5.98E-09
Isophorone	78-59-1	5.43E-08	1.08E-07	< 3.06E-09	< 7.36E-09	< 3.27E-08	< 2.98E-08	< 2.52E-09	< 3.39E-09	1.98E-08	< 4.01E-09	9.89E-08
2-Nitrophenol	88-75-5	< 9.81E-09	< 8.40E-09	< 9.03E-09	< 2.18E-08	< 9.67E-08	< 8.83E-08	< 7.77E-09	< 1.05E-08	< 9.13E-09	< 1.21E-08	< 9.17E-09
2,4-Dimethylphenol	105-67-9	< 6.45E-09	< 5.56E-09	< 5.94E-09	< 1.48E-08	< 6.57E-08	< 6.00E-08	< 5.14E-09	< 6.94E-09	< 6.00E-09	< 7.62E-09	< 6.03E-09
bis(2-Chloroethoxy)methane	111-91-1	< 6.35E-09	< 4.56E-09	< 5.85E-09	< 1.40E-08	< 6.20E-08	< 5.66E-08	< 4.21E-09	< 5.68E-09	< 5.91E-09	< 7.26E-09	< 5.93E-09
Benzoic acid	65-85-0	1.42E-07	< 1.72E-08	< 2.00E-08	< 3.42E-08	1.40E-06	1.56E-06	< 1.59E-08	< 2.14E-08	7.42E-08	< 1.35E-08	1.38E-06
2,4-Dichlorophenol	120-83-2	< 6.40E-09	< 5.70E-09	< 5.90E-09	< 1.53E-08	< 6.78E-08	< 6.19E-08	< 5.27E-09	< 7.12E-09	< 5.97E-09	< 8.49E-09	< 5.99E-09
1,2,4-Trichlorobenzene	120-82-1	< 5.59E-09	< 4.52E-09	< 5.17E-09	< 1.37E-08	< 6.09E-08	< 5.56E-08	< 4.18E-09	< 5.63E-09	< 5.21E-09	< 7.30E-09	< 5.24E-09
Naphthalene	91-20-3	4.56E-08	8.71E-08	2.70E-07	8.95E-08	6.40E-08	5.22E-08	1.58E-08	1.72E-07	1.41E-08	3.32E-08	3.40E-08
4-Chloroaniline	106-47-8	< 4.53E-09	< 3.69E-09	< 4.17E-09	< 1.10E-08	< 4.88E-08	< 4.46E-08	< 3.42E-09	< 4.61E-09	< 4.21E-09	< 5.87E-09	< 4.22E-09
Hexachlorobutadiene	87-68-3	< 8.60E-09	< 7.17E-09	< 7.92E-09	< 2.38E-08	3.86E-08	4.67E-08	< 6.64E-09	< 8.96E-09	< 8.01E-09	< 1.34E-08	6.31E-09
4-Chloro-3-methylphenol	59-50-7	< 6.36E-09	< 5.88E-09	< 5.87E-09	< 1.41E-08	< 6.28E-08	< 5.73E-08	< 5.45E-09	< 7.34E-09	< 5.92E-09	< 7.51E-09	< 5.95E-09
2-Methylnaphthalene	91-57-6	1.62E-08	2.32E-07	6.19E-08	3.09E-08	2.32E-08	1.06E-08	< 2.32E-09	8.94E-09	1.79E-09	1.66E-09	3.49E-08
Hexachlorocyclopentadiene	77-47-4	< 9.19E-09	< 6.21E-09	< 6.83E-09	< 1.91E-08	< 1.06E-07	< 9.90E-08	< 5.35E-09	< 7.90E-09	< 6.28E-09	< 1.04E-08	< 7.90E-09
2,4,6-Trichlorophenol	88-06-2	< 8.74E-09	< 6.53E-09	< 6.48E-09	< 1.55E-08	< 8.58E-08	< 8.05E-08	< 5.62E-09	< 8.31E-09	< 5.97E-09	< 9.11E-09	< 7.51E-09
2,4,5-Trichlorophenol	95-95-4	< 8.24E-09	< 6.62E-09	< 6.12E-09	< 1.40E-08	< 7.76E-08	< 7.27E-08	< 5.71E-09	< 8.44E-09	< 5.63E-09	< 8.06E-09	< 7.08E-09
2-Chloronaphthalene	91-58-7	< 3.30E-09	< 2.16E-09	< 2.45E-09	< 5.22E-09	< 2.89E-08	< 2.71E-08	< 1.86E-09	< 2.75E-09	< 2.26E-09	< 2.98E-09	< 2.84E-09
2-Nitroaniline	88-74-4	< 1.01E-08	< 7.70E-09	< 7.54E-09	< 1.50E-08	< 8.30E-08	< 7.78E-08	< 6.63E-09	< 9.80E-09	< 6.93E-09	< 8.33E-09	< 8.72E-09
Dimethylphthalate	131-11-3	< 2.49E-09	< 1.73E-09	< 1.85E-09	2.91E-09	< 2.18E-08	< 2.05E-08	1.75E-09	5.72E-09	< 1.70E-09	1.51E-08	< 2.15E-09
2,6-Dinitrotoluene	606-20-2	< 1.05E-08	< 7.38E-09	< 7.78E-09	< 1.59E-08	< 8.84E-08	< 8.29E-08	< 6.35E-09	< 9.39E-09	< 7.16E-09	< 8.84E-09	< 9.01E-09
2,4-Dinitrotoluene	121-14-2	< 6.97E-09	< 4.81E-09	< 5.18E-09	< 1.05E-08	< 5.80E-08	< 5.44E-08	< 4.14E-09	< 6.11E-09	< 4.77E-09	< 5.88E-09	< 6.00E-09
Acenaphthylene	208-96-8	< 1.95E-09	4.30E-09	< 1.45E-09	1.17E-08	< 1.62E-08	< 1.52E-08	1.58E-09	1.58E-09	< 1.33E-09	< 1.70E-09	1.31E-08
3-Nitroaniline	99-09-2	< 8.28E-09	< 5.93E-09	< 6.16E-09	< 1.36E-08	< 7.54E-08	< 7.07E-08	< 5.10E-09	< 7.54E-09	< 5.66E-09	< 7.38E-09	< 7.12E-09
Acenaphthene	83-32-9	< 3.52E-09	4.32E-09	< 2.60E-09	< 5.38E-09	< 2.98E-08	< 2.79E-08	< 2.04E-09	1.30E-09	< 2.39E-09	< 2.85E-09	< 3.02E-09

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 4 Autoclave Speciated Semivolatiles Summary

Water Trap

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
2,4-Dinitrophenol	105-67-9	< 2.06E-08	< 2.17E-08	< 1.53E-08	< 3.52E-08	< 1.95E-07	< 1.83E-07	< 1.87E-08	< 2.76E-08	< 1.41E-08	< 2.05E-08	< 1.77E-08
4-Nitrophenol	100-02-7	< 1.03E-08	< 8.61E-09	< 7.66E-09	< 2.15E-08	< 1.19E-07	< 1.12E-07	< 7.41E-09	< 1.09E-08	< 7.05E-09	< 1.32E-08	< 8.86E-09
Dibenzofuran	132-64-9	< 2.31E-09	7.90E-09	< 1.71E-09	< 3.53E-09	< 1.96E-08	< 1.84E-08	< 1.33E-09	1.46E-09	< 1.58E-09	< 1.93E-09	< 1.98E-09
Diethylphthalate	84-66-2	< 2.13E-09	< 1.58E-09	< 1.57E-09	< 3.47E-09	< 1.91E-08	< 1.79E-08	< 1.36E-09	1.71E-09	< 1.45E-09	< 1.97E-09	< 1.82E-09
4-Chlorophenyl-phenylether	70005-72-3	< 5.48E-09	< 3.79E-09	< 4.07E-09	< 8.89E-09	< 4.92E-08	< 4.61E-08	< 3.26E-09	< 4.81E-09	< 3.75E-09	< 5.21E-09	< 4.71E-09
Fluorene	86-73-7	< 2.89E-09	1.04E-08	< 2.14E-09	< 4.35E-09	< 2.42E-08	< 2.27E-08	< 1.66E-09	1.11E-09	< 1.96E-09	< 2.42E-09	< 2.48E-09
4-Nitroaniline	100-01-6	< 7.63E-09	< 4.72E-09	< 5.66E-09	< 1.17E-08	< 6.51E-08	< 6.10E-08	< 4.07E-09	< 6.01E-09	< 5.21E-09	< 7.13E-09	< 6.56E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 1.13E-08	< 1.11E-08	< 7.29E-09	< 1.69E-08	< 1.14E-07	< 1.03E-07	< 8.61E-09	< 1.34E-08	< 1.07E-08	< 1.12E-08	< 1.38E-08
4-Bromophenyl-phenylether	101-55-3	< 7.69E-09	< 6.77E-09	< 4.96E-09	< 1.25E-08	< 8.43E-08	< 7.66E-08	< 5.28E-09	< 8.21E-09	< 7.28E-09	< 8.12E-09	< 9.40E-09
Hexachlorobenzene	118-74-1	< 5.92E-09	< 4.94E-09	< 3.81E-09	< 1.01E-08	< 6.77E-08	< 6.16E-08	< 3.85E-09	< 6.00E-09	< 5.60E-09	< 6.50E-09	< 7.24E-09
Pentachlorophenol	87-86-5	< 8.34E-09	4.14E-07	< 5.39E-09	< 1.48E-08	< 9.97E-08	< 9.07E-08	3.40E-07	< 1.17E-08	< 7.90E-09	< 9.15E-09	< 1.02E-08
Phenanthrene	85-01-8	9.54E-09	1.49E-08	7.30E-08	1.93E-08	1.25E-08	1.44E-08	2.09E-09	4.61E-09	1.85E-09	1.80E-09	1.10E-08
Anthracene	120-12-7	< 1.47E-09	3.08E-09	< 9.58E-10	< 2.21E-09	< 1.49E-08	< 1.35E-08	4.54E-10	< 1.40E-09	< 1.39E-09	< 1.39E-09	< 1.80E-09
Di-n-butylphthalate	84-74-2	< 8.54E-10	2.60E-09	< 5.47E-10	< 1.32E-09	1.32E-08	1.87E-08	5.84E-09	1.91E-07	1.27E-09	6.94E-08	5.67E-09
Fluoranthene	206-44-0	5.75E-09	1.29E-09	1.14E-08	1.11E-08	1.77E-08	2.64E-08	1.38E-09	3.57E-09	< 1.08E-09	1.07E-08	1.58E-08
Pyrene	129-00-0	2.37E-08	8.23E-09	9.55E-08	5.31E-08	7.43E-08	1.10E-07	1.09E-08	2.19E-08	< 6.35E-10	8.79E-09	4.27E-08
Butylbenzylphthalate	85-68-7	< 1.12E-09	< 9.64E-10	< 8.21E-10	< 2.83E-09	< 1.85E-08	< 1.75E-08	< 9.21E-10	< 1.22E-09	< 1.14E-09	< 1.64E-09	< 1.16E-09
3,3'-Dichlorobenzidine	91-94-1	< 3.03E-09	< 2.44E-09	< 2.26E-09	< 7.28E-09	< 4.77E-08	< 4.50E-08	< 2.31E-09	< 3.06E-09	< 3.10E-09	< 4.51E-09	< 3.15E-09
bis(2-Ethylhexyl)phthalate	117-81-7	2.41E-07	2.03E-07	1.44E-06	1.31E-07	6.36E-08	5.99E-08	3.22E-07	4.55E-07	1.82E-08	3.19E-07	6.42E-08
Benzo(a)anthracene	56-55-3	< 8.54E-10	< 7.02E-10	< 6.33E-10	< 2.17E-09	< 1.41E-08	< 1.33E-08	< 6.60E-10	< 8.69E-10	< 8.71E-10	< 1.23E-09	< 8.78E-10
Chrysene	218-01-9	< 9.39E-10	< 7.43E-10	< 7.01E-10	< 2.39E-09	< 1.57E-08	< 1.48E-08	< 7.01E-10	< 9.39E-10	< 9.60E-10	< 1.36E-09	< 9.75E-10
Di-n-octylphthalate	117-84-0	< 7.69E-10	< 4.54E-10	< 3.08E-09	1.84E-09	< 7.23E-09	< 6.90E-09	2.65E-09	4.46E-09	< 7.09E-10	4.83E-09	< 7.10E-10
Benzo(b)fluoranthene	205-99-2	< 1.47E-09	< 7.85E-10	< 5.87E-09	< 4.00E-09	< 1.19E-08	< 1.14E-08	< 6.46E-10	< 7.57E-10	< 1.33E-09	< 1.29E-09	< 1.35E-09
Benzo(k)fluoranthene	207-08-9	< 1.58E-09	< 8.26E-10	< 6.31E-09	< 4.21E-09	< 1.25E-08	< 1.20E-08	< 6.88E-10	< 7.99E-10	< 1.43E-09	< 1.33E-09	< 1.45E-09
Benzo(a)pyrene	50-32-8	< 1.61E-09	< 8.54E-10	< 6.41E-09	< 4.33E-09	< 1.29E-08	< 1.23E-08	< 7.15E-10	< 8.27E-10	< 1.46E-09	< 1.39E-09	< 1.48E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.64E-09	< 9.09E-10	< 6.52E-09	< 3.86E-09	< 1.15E-08	< 1.09E-08	< 7.56E-10	< 8.83E-10	< 1.49E-09	< 1.26E-09	< 1.50E-09
Dibenz(a,h)anthracene	53-90-3	< 2.23E-09	< 1.07E-09	< 8.91E-09	< 4.97E-09	< 1.48E-08	< 1.41E-08	< 8.80E-10	< 1.04E-09	< 2.02E-09	< 1.63E-09	< 2.05E-09
Benzo(g,h,i)perylene	191-24-2	< 1.92E-09	< 8.81E-10	< 7.68E-09	< 4.43E-09	< 1.32E-08	< 1.26E-08	< 7.29E-10	< 8.55E-10	< 1.74E-09	< 1.42E-09	< 1.77E-09
3-Puraldehyde	498-60-2	< 1.62E-08	< 1.07E-08	< 1.94E-08	< 4.75E-08	< 1.22E-07	< 1.13E-07	< 9.49E-09	< 1.09E-08	< 1.45E-08	< 2.05E-08	< 1.51E-08
2-Puraldehyde	98-01-1	< 1.35E-08	< 9.10E-09	< 1.61E-08	< 4.16E-08	< 1.06E-07	< 9.92E-08	< 8.10E-09	< 9.35E-09	< 1.20E-08	6.75E-09	6.27E-09
Cyclohexylamine	108-91-8	1.11E-04	6.62E-05	3.48E-04	9.56E-06	7.09E-07	6.85E-08	1.49E-07	7.06E-07		3.30E-07	< 6.07E-09
N-Nitrosodiethylamine	55-18-5	< 1.73E-08	< 1.31E-08	< 2.07E-08	< 5.39E-08	< 1.38E-07	< 1.28E-07	< 1.17E-08	< 1.35E-08	< 1.55E-08	< 2.30E-08	< 1.61E-08
Cyclohexanone	108-94-1	1.13E-05	6.73E-06	3.12E-05	8.43E-07	2.65E-07	1.10E-07	3.44E-07	3.59E-07	7.14E-07	2.27E-07	1.08E-07
1,3-Cyclooctadiene	1700-10-3	< 8.08E-09	< 5.88E-09	< 9.72E-09	< 2.78E-08	< 7.10E-08	< 6.62E-08	< 5.24E-09	< 6.04E-09	< 7.24E-09	< 1.11E-08	< 7.52E-09
1,5-Cyclooctadiene	111-78-4	< 1.77E-08	< 1.21E-08	< 2.12E-08	< 6.00E-08	< 1.54E-07	< 1.43E-07	< 1.08E-08	6.28E-09	< 1.58E-08	< 2.37E-08	< 1.64E-08

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 4 Autoclave Speciated Semivolatiles Summary

Water Trap

Compound	CAS #	Cmpd.#4	Cmpd.#5	Cmpd.#6	Cmpd.#8	Cmpd.#9*	Cmpd.#9	Cmpd.#11	Cmpd.#15	Cmpd.#18	Cmpd.#21	Cmpd.#22
		B/B rubber	B/B rubber	B/B rubber	B/B rubber	B/B rubber	B/B rubber	B/B rubber	B/B rubber	B/B rubber	B/B rubber	B/B rubber
Camphene	79-92-5	< 8.20E-09	< 6.33E-09	< 9.84E-09	< 2.91E-08	< 7.43E-08	< 6.92E-08	< 5.64E-09	< 6.50E-09	< 7.34E-09	< 1.21E-08	< 7.63E-09
Benzaldehyde	100-52-7	< 1.09E-08	< 8.21E-09	< 1.30E-08	< 3.69E-08	< 9.44E-08	< 8.80E-08	1.40E-08	9.41E-08	9.75E-09	6.23E-08	2.99E-08
Benzonitrile	100-47-0	< 3.90E-09	< 2.78E-09	< 4.69E-09	< 1.29E-08	< 3.30E-08	< 3.08E-08	< 2.48E-09	< 2.86E-09	< 3.49E-09	< 5.24E-09	< 3.64E-09
Isooctanol	26952-21-6	2.84E-07	< 7.50E-08	1.23E-05	< 2.92E-07	5.74E-06	6.02E-06	< 6.69E-08	< 7.71E-08	2.75E-05	< 1.41E-07	9.19E-07
1,2,4-Trimethylbenzene	95-63-6	6.87E-08	3.31E-08	1.43E-07	5.14E-09	< 3.00E-08	4.78E-08	1.86E-09	3.10E-08	< 3.13E-09	6.26E-09	9.56E-09
3-Methylstyrene	100-80-1	< 5.18E-09	< 4.02E-09	< 6.23E-09	< 1.99E-08	< 5.08E-08	< 4.73E-08	< 3.58E-09	8.27E-09	< 4.64E-09	< 8.39E-09	< 4.82E-09
4-Methylstyrene	622-97-9	< 5.45E-09	< 4.30E-09	< 6.55E-09	< 2.08E-08	< 5.32E-08	< 4.96E-08	< 3.84E-09	3.07E-09	< 4.87E-09	< 8.39E-09	< 5.07E-09
4-Chlorostyrene	1073-67-2	< 6.29E-09	< 4.83E-09	< 7.56E-09	< 2.34E-08	< 5.98E-08	< 5.57E-08	5.54E-08	< 4.98E-09	< 5.63E-09	< 9.74E-09	< 5.85E-09
1-Dodecene	112-41-4	< 3.31E-08	< 2.36E-08	< 3.06E-08	< 8.31E-08	< 3.19E-07	< 2.92E-07	< 2.18E-08	< 2.99E-08	< 3.09E-08	< 3.62E-08	< 3.10E-08
Phthalimide	85-41-6	< 7.97E-09	< 5.29E-09	< 5.92E-09	< 1.51E-08	< 8.34E-08	< 7.82E-08	< 4.55E-09	7.68E-09	< 5.45E-09	< 7.51E-09	< 6.85E-09
Diphenylamine	122-39-4	1.55E-07	1.37E-07	2.76E-06	8.68E-09	3.48E-06	3.42E-06	4.16E-07	1.85E-08	2.93E-08	2.45E-09	1.93E-07
n-Nitrosodimethylamine	62-75-9	< 3.06E-08	< 1.35E-08	< 3.67E-08	< 4.50E-08	< 1.56E-07	< 1.45E-07	< 1.21E-08	< 1.39E-08	< 2.74E-08	< 1.25E-08	< 2.85E-08
Cumene	98-82-8	< 3.81E-09	2.24E-09	3.11E-09	< 7.84E-09	5.42E-08	2.57E-07	< 2.34E-09	< 2.71E-09	3.56E-09	7.65E-09	3.71E-09
Aniline	62-53-3	6.56E-06	7.93E-06	1.87E-05	8.21E-07	2.33E-06	1.25E-07	1.69E-06	2.15E-08	1.26E-06	4.66E-09	4.54E-06
Benzyl Chloride	100-44-7	< 3.62E-09	< 2.68E-09	< 4.33E-09	< 1.10E-08	< 3.80E-08	< 3.55E-08	< 2.39E-09	< 2.76E-09	< 3.23E-09	< 2.48E-09	< 3.36E-09
Acetophenone	98-86-2	9.88E-08	9.25E-08	5.41E-07	5.07E-08	3.05E-04	3.08E-04	5.08E-08	1.80E-07	1.24E-07	1.32E-07	7.33E-07
n-Nitrosomorpholine	59-89-2	< 1.11E-08	< 8.92E-09	< 1.34E-08	< 2.88E-08	< 1.00E-07	< 9.32E-08	< 7.95E-09	< 9.17E-09	< 9.96E-09	< 8.23E-09	< 1.04E-08
o-Toluidine	95-53-4	1.25E-07	< 4.05E-09	1.00E-05	< 1.42E-08	< 4.92E-08	< 4.59E-08	< 3.62E-09	< 4.16E-09	4.43E-08	< 3.74E-09	4.19E-08
N,N-Dimethylaniline	121-69-7	< 4.64E-09	< 3.40E-09	< 4.28E-09	9.26E-09	< 4.65E-08	< 4.25E-08	< 3.14E-09	< 4.27E-09	< 4.33E-09	< 3.03E-09	< 4.35E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 1.23E-08	< 9.51E-09	< 1.48E-08	< 4.07E-08	< 1.41E-07	< 1.31E-07	< 8.47E-09	< 9.77E-09	< 1.10E-08	< 8.79E-09	< 1.14E-08
o-Anisidine	90-04-0	< 7.70E-09	< 6.44E-09	< 7.10E-09	< 2.00E-08	< 8.90E-08	< 8.12E-08	< 5.95E-09	< 8.10E-09	< 7.18E-09	< 5.75E-09	< 7.20E-09
1,4-Phenylenediamine	106-50-3	< 9.32E-09	< 6.51E-09	< 8.59E-09	< 1.51E-08	< 9.21E-08	< 8.40E-08	< 6.04E-09	< 8.20E-09	< 8.69E-09	< 5.82E-09	< 8.72E-09
N,N-Diethylaniline	91-66-7	< 4.27E-09	< 3.58E-09	< 5.13E-09	< 1.08E-08	< 3.75E-08	< 3.50E-08	< 3.19E-09	< 3.69E-09	< 3.83E-09	< 3.30E-09	< 3.98E-09
a,a,a-Trichlorotoluene	98-07-7	< 4.28E-09	< 3.63E-09	< 3.95E-09	< 1.19E-08	< 5.27E-08	< 4.81E-08	< 3.37E-09	< 4.58E-09	< 3.99E-09	< 3.25E-09	< 4.00E-09
Hydroquinone	123-31-9	< 5.57E-09	< 5.03E-09	< 5.13E-09	< 1.67E-08	< 7.42E-08	< 6.78E-08	< 4.65E-09	< 6.34E-09	< 5.18E-09	< 4.49E-09	< 5.21E-09
2-Chloroacetophenone	1341-24-8	< 3.17E-09	< 2.68E-09	< 2.93E-09	< 6.97E-09	< 3.09E-08	2.76E-08	< 2.49E-09	< 3.38E-09	< 2.95E-09	< 2.39E-09	< 2.97E-09
Biphenyl	92-52-4	1.04E-08	4.30E-08	1.26E-07	1.30E-08	2.91E-08	< 2.86E-08	9.35E-10	7.93E-09	< 2.42E-09	1.49E-09	3.89E-08
Trifluralin	1582-09-8	< 9.98E-09	< 9.10E-09	< 9.20E-09	< 2.53E-08	< 1.40E-07	< 1.31E-07	< 7.84E-09	< 1.16E-08	< 8.46E-09	< 6.46E-09	< 1.07E-08
4-Aminobiphenyl	92-67-1	< 2.25E-09	< 1.71E-09	< 1.45E-09	< 3.47E-09	< 2.33E-08	< 2.12E-08	< 1.33E-09	< 2.07E-09	< 2.13E-09	< 1.12E-09	< 2.74E-09
Pentachloronitrobenzene	82-68-8	< 1.30E-08	< 1.15E-08	< 8.36E-09	< 2.34E-08	< 1.57E-07	< 1.43E-07	< 8.92E-09	< 1.39E-08	< 1.23E-08	< 7.51E-09	< 1.59E-08
4-Nitrobiphenyl	92-93-3	< 3.64E-09	< 3.07E-09	< 2.36E-09	< 6.02E-09	< 4.05E-08	< 3.68E-08	< 2.39E-09	< 3.71E-09	< 3.46E-09	< 2.01E-09	< 4.46E-09
Benzidine	92-87-5	< 1.41E-09	< 1.29E-09	< 1.04E-09	3.66E-08	< 2.89E-08	< 2.73E-08	< 1.22E-09	< 1.63E-09	< 1.45E-09	< 1.18E-09	< 1.46E-09
4,4'-Methylenedianiline	101-77-9	< 3.43E-09	< 2.88E-09	< 2.55E-09	< 9.14E-09	< 5.98E-08	< 5.64E-08	< 2.72E-09	< 3.60E-09	< 3.50E-09	< 2.62E-09	< 3.57E-09
Dimethylaminoazobenzene	60-11-7	< 1.94E-09	< 1.79E-09	< 1.44E-09	< 5.34E-09	< 3.49E-08	< 3.30E-08	< 1.69E-09	< 2.24E-09	< 1.98E-09	< 1.63E-09	< 2.01E-09
3,3'-Dimethylbenzidine	119-93-7	< 1.69E-09	< 1.32E-09	< 1.25E-09	< 4.87E-09	< 3.18E-08	< 3.00E-08	< 1.25E-09	< 1.65E-09	< 1.73E-09	< 1.20E-09	< 1.76E-09
3,3'-Dimethoxybenzidine	119-90-4	< 6.40E-09	< 4.79E-09	< 4.76E-09	< 1.49E-08	< 9.76E-08	< 9.21E-08	< 4.54E-09	< 6.01E-09	< 6.56E-09	< 4.36E-09	< 6.66E-09
Methylene bis-chloroaniline	101-14-4	< 5.94E-09	< 4.35E-09	< 4.40E-09	< 1.66E-08	< 1.09E-07	< 1.02E-07	< 4.11E-09	< 5.45E-09	< 6.07E-09	< 3.97E-09	< 6.17E-09
TOTAL Detected		1.30E-04	8.23E-05	4.26E-04	1.17E-05	3.19E-04	3.21E-04	3.45E-06	2.56E-06	2.98E-05	1.28E-06	8.36E-06
TOTAL with non-detects		< 1.30E-04	< 8.28E-05	< 4.27E-04	< 1.35E-05	< 3.26E-04	< 3.26E-04	< 3.94E-06	< 3.17E-06	< 3.04E-05	< 2.06E-06	< 8.93E-06

* - Extruded, all other compounds are unextruded

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Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
+ 1-Butanol	00071-36-3							300			6,000	
++1-Heptene	00592-76-7	93	140	76	198	37	93	105	93		344	28
++1-Hexene	00592-41-6	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
++1-Octene	00111-60-0	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
++1-Pentene	00109-67-1	< 3	30	< 3	< 3	< 3	< 3	< 3	< 3	443	123	26
1,1-Dichloroethane	00075-34-3	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
1,1-Dichloroethene	00075-35-4	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
1,1,1-Trichloroethane	00071-55-6	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
1,1,2-Trichloroethane	00079-00-5	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
1,1,2,2-Tetrachloroethane	00079-34-5	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
1,2-Dibromo-3-Chloropropane	00096-12-8	< 40	< 40	< 40	< 160	< 40	< 40	< 80	< 40	< 160	< 160	< 20
1,2-Dibromoethane	00106-93-4	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
1,2-Dichlorobenzene	00095-50-1	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
1,2-Dichloroethane	00107-06-2	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
1,2-Dichloropropane	00078-87-5	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
++1,2,4-Trimethylbenzene	00095-63-6	433	261	406	128	61	317	111	110	6	139	161
++1,3-Butadiene	00106-99-0	349	< 3	146	< 3	< 3	197	< 3	< 3	< 1	< 3	90
1,3-Dichlorobenzene	00541-73-1	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
++1,3,5-Trimethylbenzene	00108-67-8	217	200	78	106	67	56	33	122		78	56
1,4-Dichlorobenzene	00106-46-7	< 20	< 20	< 20	< 80	< 20	< 20	< 40	15	< 80	< 80	< 10
++1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	106	558	< 14	< 14	< 14	< 14	< 14	49	117	52	< 6
1,4-Dioxane	00123-91-1	< 80	< 80	< 80	< 320	< 80	< 80	< 160	< 80	< 320	< 320	< 40
2-Butanone	00078-93-3	< 40	66	< 40	360	< 40	< 40	< 80	< 40	< 160	140	< 20
+ 2-Chloro-1,3-Butadiene	00126-99-8							300				
+ 2-Chloro-1,3-Butadiene dimer								2,000				
+ 2-Ethylhexanal	00123-05-7							300				
2-Hexanone	00591-78-6	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
++2-Methyl-1-butene	00563-46-2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
++2-Methyl-2-butene	00513-35-9	438	< 3	274	< 3	< 3	642	< 3	< 3	< 1	< 3	245
++2-Methyl-2-pentene	00625-27-4	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
+ 2-Methyl-2-Propanol	00075-65-0										10,000	
++2-Methylheptane	00592-27-8	713	713	261	891	208	273	463	891		1,010	119
++2-Methylhexane	00591-76-4	268	387	149	417	27	161	268	375		774	77
++2-Methylpentane	00107-83-5	119	263	57	66	44	38	125	78	96	424	54
+ 2-Phenyl-2-Propanol						2,000	600					
++2,2-Dimethylbutane	00075-83-2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	13	< 3	< 1
++2,2-Dimethylpropane	00463-82-1	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
++2,3-Dimethylpentane	00565-59-3	77	107	51	137	< 3	59	95	107		417	25

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary

Cooldown - Gas

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
++2,3,4-Trimethylpentane	00565-75-3	95	107	< 3	83	< 3	< 3	49	101	54	89	< 1
++2,4-Dimethylhexane	00589-43-5	249	226	83	226	< 3	65	178	232		232	52
+ 3-Methylheptane	00589-81-1	200	200								1,000	
++3-Methylhexane	00589-34-4	351	512	411	595	161	232	333	530		1,012	95
++3-Methylpentane	00096-14-0	51	203	30	119	51	39	454	96		96	17
++4-Methyl-1-pentene	00691-37-2	26	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	16
++4-Methyl-2-Pentanone	00108-10-1	7,000	130	2,100	< 80	370	< 20	< 40	< 20	1,600	< 80	2,100
+ Acetaldehyde	00075-07-0		300									
Acetone	00067-64-1	1,600	6,800	630	1,300	650	1,100	1,800	1,100		22,000	430
Acetonitrile	01722-09-4	< 40	320	< 40	< 160	< 40	< 40	< 80	< 40	< 160	< 160	< 20
+ Acetophenone	00098-86-2	500		2,000		30,000	20,000					2,000
++Acetylene	00074-86-2	< 3	54	< 3	60	< 3	< 3	87	< 3		130	< 1
Acrolein	00107-02-8	< 40	< 40	< 40	< 160	< 40	< 40	< 80	< 40	< 160	< 160	< 20
Acrylonitrile	00107-13-1	< 40	< 40	< 40	< 160	< 40	< 40	< 80	< 40	< 160	< 160	< 20
Allyl Chloride	00107-05-1	< 40	< 40	< 40	< 160	< 40	< 40	< 80	< 40	< 160	< 160	< 20
+ Alpha-Methoxy Cumene				500		3,000	2,000					
+ Alpha-Methyl Styrene				900		10,000	10,000					500
++a-Pinene	07785-70-8	< 3	96	< 3	91	< 3	< 3	< 3	42	< 1	96	79
+ Benzaldehyde	00100-52-7											100
++Benzene	00071-43-2	921	460	482	1,516	162	108	238	401	17	866	758
Benzyl Chloride	00100-44-7	< 40	< 40	< 40	< 160	< 40	< 40	< 80	< 40	< 160	< 160	< 20
++b-Pinene	18172-67-3	85	62	< 14	< 14	< 14	< 14	< 14	45	74	53	< 6
Bromodichloromethane	00075-27-4	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
Bromoform	00075-25-2	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
Bromomethane	00074-83-9	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
+ Butene Isomer												200
+ Butyl Propionate	00590-01-2										10,000	
+ C10H14 Alkyl Benzene			1,000									
+ C10H18 Cyclic Alkene				300								600
+ C10H22 Alkane									200			
+ C11H22 Cyclic Alkene												200
+ C12H24 Alkene				700						5,000		1,700
+ C7H16 Alkane									600			
Carbon Disulfide	00075-15-0	< 20	48	< 20	24,000	130	70	4,700	6,000	27,860	< 80	88
Carbon Tetrachloride	00056-23-5	< 20	< 20	< 20	< 80	< 20	< 20	< 40	1,200	< 80	< 80	< 10
Chlorobenzene	00108-90-7	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
Chlorodibromomethane	00124-48-1	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10

* - Extruded, all other compounds are unextruded

\+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
Chloroethane	00075-00-3	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
Chloroform	00067-66-3	< 20	< 20	< 20	< 80	< 20	< 20	< 40	660	< 80	< 80	< 10
Chloromethane	00074-87-3	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
cis-1,2-Dichloroethene	00156-59-2	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
cis-1,3-Dichloropropene	10061-01-5	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
++cis-2-Butene	00590-18-1	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
++cis-2-Hexene	07688-21-3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
++cis-2-Pentene	00627-20-3	111	759	187	245	303	548	1,634	123		58,348	274
++Cumene	00098-82-8	50	61	44	39	339	667	< 3	36		61	27
++Cyclohexane	00110-82-7	181	286	117	257	53	111	198	193		759	57
+ Cyclohexanone	00108-94-1	3,000	2,000	4,000								
+ Cyclohexene	00110-83-8	200	200									
++Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	62	156	65	91	98	163	371	36		12,354	72
++Cyclopentene	00142-29-0	102	96	< 3	62	< 3	< 3	< 3	39	< 1	62	8
Dichlorodifluoromethane	00075-71-8	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
+ Diisopropylbenzene Isomer												200
+ Dimethyl Cyclohexane	27195-67-1								200			
+ Dimethyl Cyclohexane Isomer		200	200									
++d-Limonene	05989-27-5	< 14	1,190	85	300	< 14	1,190	4,364	96	< 6	62	249
Epichlorohydrin	00106-89-8	< 40	< 40	< 40	590	< 40	< 40	< 80	< 40	< 160	< 160	< 20
++Ethane	00074-84-0	< 3	37	< 3	< 3	< 3	< 3	< 3	< 3		43	< 1
++Ethylacetylene	00107-00-6	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
Ethylbenzene	00100-41-4	530	180	270	320	350	270	342	710		440	140
++Ethylbenzene	00100-41-4	1,049	381	607	662	718	662	< 3	1,490		828	320
++Ethylene	00074-85-1	< 3	32	< 3	< 3	< 3	< 3	< 80	< 3	< 1	< 3	< 1
Hexachlorobutadiene	00087-68-3	< 40	< 40	< 40	< 160	83	110	< 3	< 40	< 160	< 160	< 20
++Isobutane	00075-28-5	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 1	< 3	< 1
+ Isobutyl Butyrate	00539-90-2										600	
+ Isobutyl Thiocyanate					2,000			426				
++Isobutylene + 1-Butene	00115-11-7/00106-98-9	76	461	11	508	583	17	89	1,517	478	1,692	519
++Isooctane	00540-84-1	101	148	46	160	< 3	55	2,341	178		416	24
++Isopentane	00078-78-4	1,921	7,203	960	1,921	840	1,501	< 3	1,321	1,140	< 3	720
++Isoprene	00078-79-5	< 3	< 3	< 3	< 3	< 3	< 3		< 3	23	< 3	< 1
+ m- & p-Ethyl Toluene	00620-14-4/00622-96-8	300						400				
+ Methyl Cyclohexane	00108-87-2	400	600	200	800		200	< 3	500		900	
++Methylacetylene	00074-99-7	< 3	< 3	< 3	< 3	< 3	< 3	817	< 3	< 1	< 3	< 1
++Methylcyclohexane	00108-87-2	1,167	1,284	548	1,459	350	443	128	1,284		1,517	274
++Methylcyclopentane	00096-37-7	76	228	47	158	64	82	140	163		134	22
Methylene Chloride	00075-09-2	840	240	460	370	440	940	27	81	50	330	320

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
++m-Ethyltoluene	00620-14-4	222	239	100	161	150	111	1,380	61	39	100	72
++m-Xylene + p-Xylene	00108-38-3/00106-42-3	6,072	6,624	1,877	2,595	2,484	2,098		5,410		3,202	1,104
+ Naphthalene	00091-20-3			200				151				100
++n-Butane	00106-97-8	212	157	151	145	< 3	109	124	< 3	187	248	79
++n-Decane	00124-18-5	136	710	77	249	55	89		148	30	112	95
+ n-Dodecane	00112-40-3		1,000					715				
++n-Heptane	00142-82-5	893	1,131	435	1,310	310	453	412	1,191		1,786	197
++n-Hexane	00110-54-3	287	597	209	394	245	215	290	311		406	90
++n-Nonane	00111-84-2	391	539	160	534	113	142	428	362		889	83
++n-Octane	00111-65-9	772	713	291	1,010	184	273	46	891		1,069	131
++n-Pentane	00109-66-0	30	29	< 3	47	< 3	< 3	< 3	66	102	43	20
++n-Propylbenzene	00103-65-1	52	72	< 3	33	< 3	< 3		23	< 1	46	47
+ n-Undecane	00112-21-4		2,000					< 14				
++o-Ethyltoluene	00611-14-3	1,056	54	1,611	61	13,333	14,444	508	27	39	156	1,056
++o-Xylene	00095-47-6	994	497	607	607	2,650	662	4,299	1,214		10,489	718
++p-Cymene	00099-87-6	84	2,122	117	614	< 14	< 14	< 3	56	849	207	290
++p-Ethyltoluene	00622-96-8	122	83	61	51	< 3	< 3	257	56	< 1	50	41
++Propane	00074-98-6	86	550	165	281	< 3	45	< 3	92		141	7
++Propylene	00115-07-1	< 3	5	< 3	< 3	< 3	< 3	< 80	< 3	2	14	< 1
Propylene Oxide	00075-56-9	< 40	< 40	< 40	< 160	< 40	< 40	25	< 40	< 160	< 160	< 20
++Styrene	00100-42-5	200	125	265	60	76	81		103	65	< 3	65
t-Butyl Methyl Ether	01634-04-4	< 40	< 40	< 40	< 160	< 40	< 40	110	< 40	< 160	8,600	< 20
Tetrachloroethene	00127-18-4	< 20	< 20	< 20	< 80	< 20	< 20	< 40	62	< 80	< 80	< 10
+ Tetrahydromethylnaphthalene Isomer			400									
++Toluene	00108-88-3	4,326	3,230	1,369	4,654	986	1,478	2,300	4,435		6,570	657
trans-1,2-Dichloroethene	00156-60-5	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
trans-1,2-Dichloropropene	10061-02-6	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
++trans-2-Butene	00624-64-6	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
++trans-2-Hexene	04050-45-7	26	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 1
++trans-2-Pentene	00646-04-8	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	7	< 3	< 1
Trichloroethene	00079-01-6	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
Trichlorofluoromethane	00075-69-4	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
Trichlorotrifluoroethane	00076-13-1	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
+ Unknown		300	500									
Vinyl Acetate	00108-05-4	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
Vinyl Chloride	00075-01-4	< 20	< 20	< 20	< 80	< 20	< 20	< 40	< 20	< 80	< 80	< 10
TOTAL Detected		40,518	50,365	24,976	53,039	71,773	63,209	34,262	35,520	38,291	167,749	17,894
TOTAL with non-detects		< 41,770	< 51,498	< 26,259	< 57,531	< 73,048	< 64,469	< 36,662	< 36,690	< 42,960	< 172,290	< 18,508

* - Extruded, all other compounds are unextruded
+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
+ 1-Butanol	00071-36-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	1.96E-03	0.00E+00
++1-Heptene	00592-76-7	3.53E-05	4.56E-05	2.90E-05	6.47E-05	1.40E-05	3.57E-05	3.42E-05	5.60E-05	0.00E+00	1.12E-04	1.06E-05
++1-Hexene	00592-41-6	< 1.10E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
++1-Octene	00111-60-0	< 1.10E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
++1-Pentene	00109-67-1	< 1.10E-06	9.70E-06	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	1.69E-04	3.99E-05	9.71E-06
1,1-Dichloroethane	00075-34-3	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
1,1-Dichloroethene	00075-35-4	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
1,1,1-Trichloroethane	00071-55-6	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
1,1,2-Trichloroethane	00079-00-5	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
1,1,2,2-Tetrachloroethane	00079-34-5	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.51E-05	< 1.30E-05	< 1.53E-05	< 5.21E-05	< 1.53E-05	< 1.53E-05	< 2.61E-05	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
1,2-Dibromoethane	00106-93-4	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
1,2-Dichlorobenzene	00095-50-1	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
1,2-Dichloroethane	00107-06-2	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
1,2-Dichloropropane	00078-87-5	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
++1,2,4-Trimethylbenzene	00095-63-6	1.64E-04	8.51E-05	1.55E-04	4.16E-05	2.33E-05	1.21E-04	3.62E-05	6.59E-05	2.12E-06	4.53E-05	6.10E-05
++1,3-Butadiene	00106-99-0	1.32E-04	< 9.17E-07	5.59E-05	< 9.17E-07	< 1.07E-06	7.52E-05	< 9.17E-07	< 1.69E-06	< 4.30E-07	< 9.17E-07	3.41E-05
1,3-Dichlorobenzene	00541-73-1	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
++1,3,5-Trimethylbenzene	00108-67-8	8.20E-05	6.52E-05	2.97E-05	3.44E-05	2.55E-05	2.12E-05	1.09E-05	7.33E-05	0.00E+00	2.53E-05	2.10E-05
1,4-Dichlorobenzene	00106-46-7	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	8.99E-06	< 3.06E-05	< 2.61E-05	< 3.78E-06
++1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	4.01E-05	1.82E-04	< 5.33E-06	< 4.55E-06	< 5.33E-06	< 5.33E-06	< 4.55E-06	2.94E-05	4.48E-05	1.69E-05	< 2.11E-06
1,4-Dioxane	00123-91-1	< 3.03E-05	< 2.61E-05	< 3.06E-05	< 1.04E-04	< 3.06E-05	< 3.06E-05	< 5.21E-05	< 4.79E-05	< 1.22E-04	< 1.04E-04	< 1.51E-05
2-Butanone	00078-93-3	< 1.51E-05	2.15E-05	< 1.53E-05	1.17E-04	< 1.53E-05	< 1.53E-05	< 2.61E-05	< 2.40E-05	< 6.11E-05	4.56E-05	< 7.57E-06
+ 2-Chloro-1,3-Butadiene	00126-99-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ 2-Chloro-1,3-Butadiene dimer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ 2-Ethylhexanal	00123-05-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2-Hexanone	00591-78-6	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
++2-Methyl-1-butene	00563-46-2	< 1.10E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
++2-Methyl-2-butene	00513-35-9	1.66E-04	< 9.51E-07	1.05E-04	< 9.51E-07	< 1.11E-06	2.45E-04	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	9.27E-05
++2-Methyl-2-pentene	00625-27-4	< 1.10E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
+ 2-Methyl-2-Propanol	00075-65-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00
++2-Methylheptane	00592-27-8	2.70E-04	2.32E-04	9.99E-05	2.90E-04	7.94E-05	1.04E-04	1.51E-04	5.34E-04	0.00E+00	3.29E-04	4.49E-05
++2-Methylhexane	00591-76-4	1.01E-04	1.26E-04	5.69E-05	1.36E-04	1.02E-05	6.14E-05	8.73E-05	2.25E-04	0.00E+00	2.52E-04	2.93E-05
++2-Methylpentane	00107-83-5	4.52E-05	8.57E-05	2.17E-05	2.14E-05	1.69E-05	1.46E-05	4.09E-05	4.66E-05	3.65E-05	1.38E-04	2.06E-05
+ 2-Phenyl-2-Propanol		0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++2,2-Dimethylbutane	00075-83-2	< 1.13E-06	< 9.74E-07	< 1.14E-06	< 9.74E-07	< 1.14E-06	< 1.14E-06	< 9.74E-07	< 1.79E-06	5.02E-06	< 9.74E-07	< 4.52E-07
++2,2-Dimethylpropane	00463-82-1	< 1.14E-06	< 9.78E-07	< 1.15E-06	< 9.78E-07	< 1.15E-06	< 1.15E-06	< 9.78E-07	< 1.80E-06	< 4.59E-07	< 9.78E-07	< 4.54E-07
++2,3-Dimethylpentane	00565-59-3	2.93E-05	3.49E-05	1.93E-05	4.46E-05	< 1.14E-06	2.25E-05	3.10E-05	6.42E-05	0.00E+00	1.36E-04	9.46E-06

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
++2,3,4-Trimethylpentane	00565-75-3	3.60E-05	3.48E-05	< 1.13E-06	2.71E-05	< 1.13E-06	< 1.13E-06	1.61E-05	6.05E-05	2.07E-05	2.90E-05	< 4.49E-07
++2,4-Dimethylhexane	00589-43-5	9.44E-05	7.36E-05	3.18E-05	7.36E-05	< 1.13E-06	2.50E-05	5.81E-05	1.39E-04	0.00E+00	7.55E-05	1.96E-05
+ 3-Methylheptane	00589-81-1	7.57E-05	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00
++3-Methylhexane	00589-34-4	1.33E-04	1.67E-04	1.57E-04	1.94E-04	6.14E-05	8.87E-05	1.09E-04	3.18E-04	0.00E+00	3.30E-04	3.60E-05
++3-Methylpentane	00096-14-0	1.92E-05	6.62E-05	1.14E-05	3.89E-05	1.94E-05	1.48E-05	1.48E-04	5.73E-05	0.00E+00	3.12E-05	6.56E-06
++4-Methyl-1-pentene	00691-37-2	9.93E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	5.96E-06
++4-Methyl-2-Pentanone	00108-10-1	2.65E-03	4.24E-05	8.02E-04	< 2.61E-05	1.41E-04	< 7.64E-06	< 1.30E-05	< 1.20E-05	6.11E-04	< 2.61E-05	7.95E-04
+ Acetaldehyde	00075-07-0	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acetone	00067-64-1	6.05E-04	2.22E-03	2.41E-04	4.24E-04	2.48E-04	4.20E-04	5.87E-04	6.59E-04	0.00E+00	7.17E-03	1.63E-04
Acetonitile	01722-09-4	< 1.51E-05	1.04E-04	< 1.53E-05	< 5.21E-05	< 1.53E-05	< 1.53E-05	< 2.61E-05	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
+ Acetophenone	00098-86-2	1.89E-04	0.00E+00	7.64E-04	0.00E+00	1.15E-02	7.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04
++Acetylene	00074-86-2	< 1.02E-06	1.76E-05	< 1.03E-06	1.94E-05	< 1.03E-06	< 1.03E-06	2.82E-05	< 1.62E-06	0.00E+00	4.24E-05	< 4.10E-07
Acrolein	00107-02-8	< 1.51E-05	< 1.30E-05	< 1.53E-05	< 5.21E-05	< 1.53E-05	< 1.53E-05	< 2.61E-05	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
Acrylonitrile	00107-13-1	< 1.51E-05	< 1.30E-05	< 1.53E-05	< 5.21E-05	< 1.53E-05	< 1.53E-05	< 2.61E-05	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
Allyl Chloride	00107-05-1	< 1.51E-05	< 1.30E-05	< 1.53E-05	< 5.21E-05	< 1.53E-05	< 1.53E-05	< 2.61E-05	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
+ Alpha-Methoxy Cumene		0.00E+00	0.00E+00	1.91E-04	0.00E+00	1.15E-03	7.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Alpha-Methyl Styrene		0.00E+00	0.00E+00	3.44E-04	0.00E+00	3.82E-03	3.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
++a-Pinene	07785-70-8	< 1.07E-06	3.14E-05	< 1.08E-06	2.96E-05	< 1.08E-06	< 1.08E-06	< 9.23E-07	2.51E-05	< 4.33E-07	3.14E-05	3.00E-05
+ Benzaldehyde	00100-52-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
++Benzene	00071-43-2	3.48E-04	1.50E-04	1.84E-04	4.94E-04	6.21E-05	4.14E-05	7.77E-05	2.40E-04	6.41E-06	2.82E-04	2.87E-04
Benzyl Chloride	00100-44-7	< 1.51E-05	< 1.30E-05	< 1.53E-05	< 5.21E-05	< 1.53E-05	< 1.53E-05	< 2.61E-05	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
++b-Pinene	18172-67-3	3.22E-05	2.03E-05	< 5.41E-06	< 4.62E-06	< 5.41E-06	< 5.41E-06	< 4.62E-06	2.72E-05	2.81E-05	1.74E-05	< 2.14E-06
Bromodichloromethane	00075-27-4	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
Bromoform	00075-25-2	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
Bromomethane	00074-83-9	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
+ Butene Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
+ Butyl Propionate	00590-01-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00
+ C10H14 Alkyl Benzene		0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ C10H18 Cyclic Alkene		0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
+ C10H22 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00
+ C11H22 Cyclic Alkene		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
+ C12H24 Alkene		0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	6.43E-04
+ C7H16 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00
Carbon Disulfide	00075-15-0	< 7.57E-06	1.56E-05	< 7.64E-06	7.82E-03	4.97E-05	2.67E-05	1.53E-03	3.60E-03	1.06E-02	< 2.61E-05	3.33E-05
Carbon Tetrachloride	00056-23-5	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	7.19E-04	< 3.06E-05	< 2.61E-05	< 3.78E-06
Chlorobenzene	00108-90-7	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
Chlorodibromomethane	00124-48-1	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06

* - Extruded, all other compounds are unextruded
+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
Chloroethane	00075-00-3	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
Chloroform	00067-66-3	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	3.96E-04	< 3.06E-05	< 2.61E-05	< 3.78E-06
Chloromethane	00074-87-3	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
cis-1,2-Dichloroethene	00156-59-2	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
cis-1,3-Dichloropropene	10061-01-5	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
++cis-2-Butene	00590-18-1	< 1.10E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
++cis-2-Hexene	07688-21-3	< 1.10E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
++cis-2-Pentene	00627-20-3	4.19E-05	2.47E-04	7.13E-05	7.99E-05	1.16E-04	2.10E-04	5.32E-04	7.34E-05	0.00E+00	1.90E-02	1.04E-04
++Cumene	00098-82-8	1.89E-05	1.99E-05	1.68E-05	1.27E-05	1.29E-04	2.55E-04	< 9.05E-07	2.13E-05	0.00E+00	1.99E-05	1.01E-05
++Cyclohexane	00110-82-7	6.84E-05	9.32E-05	4.46E-05	8.37E-05	2.01E-05	4.24E-05	6.47E-05	1.15E-04	0.00E+00	2.47E-04	2.16E-05
+ Cyclohexanone	00108-94-1	1.14E-03	6.52E-04	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Cyclohexene	00110-83-8	7.57E-05	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	2.36E-05	5.09E-05	2.48E-05	2.97E-05	3.73E-05	6.21E-05	1.21E-04	2.14E-05	0.00E+00	4.03E-03	2.71E-05
++Cyclopentene	00142-29-0	3.86E-05	3.14E-05	< 1.08E-06	2.03E-05	< 1.08E-06	< 1.08E-06	< 9.23E-07	2.34E-05	< 4.33E-07	2.03E-05	3.00E-06
Dichlorodifluoromethane	00075-71-8	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
+ Diisopropylbenzene Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
+ Dimethyl Cyclohexane	27195-67-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00
+ Dimethyl Cyclohexane Isomer		7.57E-05	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++d-Limonene	05989-27-5	< 5.36E-06	3.88E-04	3.25E-05	9.79E-05	< 5.41E-06	4.55E-04	1.42E-03	5.77E-05	< 2.17E-06	2.03E-05	9.43E-05
Epichlorohydrin	00106-89-8	< 1.51E-05	< 1.30E-05	< 1.53E-05	1.92E-04	< 1.53E-05	< 1.53E-05	< 2.61E-05	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
++Ethane	00074-84-0	< 1.18E-06	1.20E-05	< 1.19E-06	< 1.02E-06	< 1.19E-06	< 1.19E-06	< 1.02E-06	< 1.87E-06	0.00E+00	1.41E-05	< 4.73E-07
++Ethylacetylene	00107-00-6	< 1.06E-06	< 9.17E-07	< 1.07E-06	< 9.17E-07	< 1.07E-06	< 1.07E-06	< 9.17E-07	< 1.69E-06	< 4.30E-07	< 9.17E-07	< 4.26E-07
Ethylbenzene	00100-41-4	2.01E-04	5.87E-05	1.03E-04	1.04E-04	1.34E-04	1.03E-04	1.12E-04	4.26E-04	0.00E+00	1.43E-04	5.30E-05
++Ethylbenzene	00100-41-4	3.97E-04	1.24E-04	2.32E-04	2.16E-04	2.74E-04	2.53E-04	< 9.51E-07	8.93E-04	0.00E+00	2.70E-04	1.21E-04
++Ethylene	00074-85-1	< 1.10E-06	1.05E-05	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 2.61E-05	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
Hexachlorobutadiene	00087-68-3	< 1.51E-05	< 1.30E-05	< 1.53E-05	< 5.21E-05	3.17E-05	4.20E-05	< 9.85E-07	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
++Isobutane	00075-28-5	< 1.14E-06	< 9.85E-07	< 1.15E-06	< 9.85E-07	< 1.15E-06	< 1.15E-06	0.00E+00	< 1.81E-06	< 4.62E-07	< 9.85E-07	< 4.57E-07
+ Isobutyl Butyrate	00539-90-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00
+ Isobutyl Thiocyanate		0.00E+00	0.00E+00	0.00E+00	6.52E-04	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++Isobutylene + 1-Butene	00115-11-7/00106-98-9	2.87E-05	1.50E-04	4.01E-06	1.65E-04	2.23E-04	6.47E-06	2.90E-05	9.09E-04	1.83E-04	5.51E-04	1.96E-04
++Isooctane	00540-84-1	3.82E-05	4.84E-05	1.75E-05	5.23E-05	< 1.13E-06	2.11E-05	7.63E-04	1.07E-04	0.00E+00	1.36E-04	9.21E-06
++Isopentane	00078-78-4	7.27E-04	2.35E-03	3.67E-04	6.26E-04	3.21E-04	5.73E-04	< 9.23E-07	7.91E-04	4.36E-04	< 9.78E-07	2.73E-04
++Isoprene	00078-79-5	< 1.07E-06	< 9.23E-07	< 1.08E-06	< 9.23E-07	< 1.08E-06	< 1.08E-06	0.00E+00	< 1.70E-06	8.88E-06	< 9.23E-07	< 4.29E-07
+ m- & p-Ethyl Toluene	00620-14-4/00622-96-8	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Methyl Cyclohexane	00108-87-2	1.51E-04	1.96E-04	7.64E-05	2.61E-04	0.00E+00	7.64E-05	< 8.82E-07	3.00E-04	0.00E+00	2.93E-04	0.00E+00
++Methylacetylene	00074-99-7	< 1.02E-06	< 8.82E-07	< 1.03E-06	< 8.82E-07	< 1.03E-06	< 1.03E-06	2.66E-04	< 1.62E-06	< 4.14E-07	< 8.82E-07	< 4.10E-07
++Methylcyclohexane	00108-87-2	4.42E-04	4.18E-04	2.10E-04	4.75E-04	1.34E-04	1.69E-04	4.18E-05	7.69E-04	0.00E+00	4.94E-04	1.04E-04
++Methylcyclopentane	00096-37-7	2.87E-05	7.42E-05	1.81E-05	5.13E-05	2.45E-05	3.12E-05	4.56E-05	9.79E-05	0.00E+00	4.37E-05	8.17E-06
Methylene Chloride	00075-09-2	3.18E-04	7.82E-05	1.76E-04	1.21E-04	1.68E-04	3.59E-04	8.69E-06	4.85E-05	1.91E-05	1.08E-04	1.21E-04

* - Extruded, all other compounds are unextruded
+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
++m-Ethyltoluene	00620-14-4	8.41E-05	7.79E-05	3.82E-05	5.25E-05	5.73E-05	4.25E-05	4.50E-04	3.66E-05	1.49E-05	3.26E-05	2.73E-05
++m-Xylene + p-Xylene	00108-38-3/00106-42-3	2.30E-03	2.16E-03	7.17E-04	8.46E-04	9.49E-04	8.02E-04	0.00E+00	3.24E-03	0.00E+00	1.04E-03	4.18E-04
+ Naphthalene	00091-20-3	0.00E+00	o 0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	3.78E-05
++n-Butane	00106-97-8	8.00E-05	5.12E-05	5.77E-05	4.73E-05	< 1.15E-06	4.16E-05	4.05E-05	< 1.81E-06	7.16E-05	8.08E-05	2.97E-05
++n-Decane	00124-18-5	5.15E-05	2.31E-04	2.94E-05	8.10E-05	2.10E-05	3.39E-05	0.00E+00	8.87E-05	1.13E-05	3.66E-05	3.58E-05
+ n-Dodecane	00112-40-3	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++n-Heptane	00142-82-5	3.38E-04	3.69E-04	1.66E-04	4.27E-04	1.18E-04	1.73E-04	1.34E-04	7.14E-04	0.00E+00	5.82E-04	7.43E-05
++n-Hexane	00110-54-3	1.09E-04	1.95E-04	7.99E-05	1.29E-04	9.36E-05	8.22E-05	9.47E-05	1.86E-04	0.00E+00	1.32E-04	3.39E-05
++n-Nonane	00111-84-2	1.48E-04	1.76E-04	6.12E-05	1.74E-04	4.30E-05	5.44E-05	1.39E-04	2.17E-04	0.00E+00	2.90E-04	3.14E-05
++n-Octane	00111-65-9	2.92E-04	2.32E-04	1.11E-04	3.29E-04	7.04E-05	1.04E-04	1.49E-05	5.34E-04	0.00E+00	3.48E-04	4.94E-05
++n-Pentane	00109-66-0	1.14E-05	9.59E-06	< 1.15E-06	1.53E-05	< 1.15E-06	< 1.15E-06	< 9.05E-07	3.96E-05	3.90E-05	1.39E-05	7.72E-06
++n-Propylbenzene	00103-65-1	1.98E-05	2.35E-05	< 1.06E-06	1.07E-05	< 1.06E-06	< 1.06E-06	0.00E+00	1.40E-05	< 4.25E-07	1.50E-05	1.79E-05
+ n-Undecane	00112-21-4	0.00E+00	6.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	< 4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++o-Ethyltoluene	00611-14-3	3.99E-04	1.77E-05	6.16E-04	1.99E-05	5.09E-03	5.52E-03	1.66E-04	1.60E-05	1.49E-05	5.07E-05	3.99E-04
++o-Xylene	00095-47-6	3.76E-04	1.62E-04	2.32E-04	1.98E-04	1.01E-03	2.53E-04	1.40E-03	7.28E-04	0.00E+00	3.42E-03	2.72E-04
++p-Cymene	00099-87-6	3.17E-05	6.91E-04	4.48E-05	2.00E-04	< 5.33E-06	< 5.33E-06	< 9.05E-07	3.35E-05	3.24E-04	6.73E-05	1.10E-04
++p-Ethyltoluene	00622-96-8	4.62E-05	2.72E-05	2.33E-05	1.65E-05	< 1.06E-06	< 1.06E-06	8.37E-05	3.33E-05	< 4.25E-07	1.63E-05	1.56E-05
++Propane	00074-98-6	3.24E-05	1.79E-04	6.31E-05	9.17E-05	< 1.17E-06	1.71E-05	< 9.51E-07	5.50E-05	0.00E+00	4.58E-05	2.54E-06
++Propylene	00115-07-1	< 1.10E-06	1.62E-06	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 2.61E-05	< 1.75E-06	8.92E-07	4.56E-06	< 4.42E-07
Propylene Oxide	00075-56-9	< 1.51E-05	< 1.30E-05	< 1.53E-05	< 5.21E-05	< 1.53E-05	< 1.53E-05	8.12E-06	< 2.40E-05	< 6.11E-05	< 5.21E-05	< 7.57E-06
++Styrene	00100-42-5	7.58E-05	4.06E-05	1.01E-04	1.94E-05	2.90E-05	3.10E-05	0.00E+00	6.17E-05	2.48E-05	< 8.82E-07	2.46E-05
t-Butyl Methyl Ether	01634-04-4	< 1.51E-05	< 1.30E-05	< 1.53E-05	< 5.21E-05	< 1.53E-05	< 1.53E-05	3.58E-05	< 2.40E-05	< 6.11E-05	2.80E-03	< 7.57E-06
Tetrachloroethene	00127-18-4	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	3.72E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
+ Tetrahydromethylnaphthalene Isomer		0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++Toluene	00108-88-3	1.64E-03	1.05E-03	5.23E-04	1.52E-03	3.77E-04	5.65E-04	7.49E-04	2.66E-03	0.00E+00	2.14E-03	2.49E-04
trans-1,2-Dichloroethene	00156-60-5	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
trans-1,2-Dichloropropene	10061-02-6	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
++trans-2-Butene	00624-64-6	< 1.10E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
++trans-2-Hexene	04050-45-7	9.71E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	< 4.46E-07	< 9.51E-07	< 4.42E-07
++trans-2-Pentene	00646-04-8	< 1.10E-06	< 9.51E-07	< 1.11E-06	< 9.51E-07	< 1.11E-06	< 1.11E-06	< 9.51E-07	< 1.75E-06	2.68E-06	< 9.51E-07	< 4.42E-07
Trichloroethene	00079-01-6	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
Trichlorofluoromethane	00075-69-4	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
Trichlorotrifluoroethane	00076-13-1	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
+ Unknown		1.14E-04	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl Acetate	00108-05-4	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
Vinyl Chloride	00075-01-4	< 7.57E-06	< 6.52E-06	< 7.64E-06	< 2.61E-05	< 7.64E-06	< 7.64E-06	< 1.30E-05	< 1.20E-05	< 3.06E-05	< 2.61E-05	< 3.78E-06
TOTAL Detected		1.53E-02	1.64E-02	9.54E-03	1.73E-02	2.74E-02	2.42E-02	1.12E-02	2.13E-02	1.46E-02	5.47E-02	6.77E-03
TOTAL with non-detects		< 1.58E-02	< 1.68E-02	< 1.00E-02	< 1.87E-02	< 2.79E-02	< 2.46E-02	< 1.19E-02	< 2.20E-02	< 1.64E-02	< 5.62E-02	< 7.00E-03

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary

Cooldown - Gas

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
+ 1-Butanol	00071-36-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00
++1-Heptene	00592-76-7	4.09E-07	5.85E-07	3.46E-07	1.14E-06	1.63E-07	4.11E-07	3.28E-07	5.47E-07	0.00E+00	1.29E-06	1.03E-07
++1-Hexene	00592-41-6	< 1.28E-08	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
++1-Octene	00111-60-0	< 1.28E-08	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
++1-Pentene	00109-67-1	< 1.28E-08	1.24E-07	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	1.75E-06	4.61E-07	9.44E-08
1,1-Dichloroethane	00075-34-3	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
1,1-Dichloroethene	00075-35-4	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
1,1,1-Trichloroethane	00071-55-6	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
1,1,2-Trichloroethane	00079-00-5	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
1,1,2,2-Tetrachloroethane	00079-34-5	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.75E-07	< 1.67E-07	< 1.82E-07	< 9.17E-07	< 1.78E-07	< 1.76E-07	< 2.50E-07	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
1,2-Dibromoethane	00106-93-4	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
1,2-Dichlorobenzene	00095-50-1	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
1,2-Dichloroethane	00107-06-2	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
1,2-Dichloropropane	00078-87-5	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
++1,2,4-Trimethylbenzene	00095-63-6	1.90E-06	1.09E-06	1.85E-06	7.33E-07	2.72E-07	1.39E-06	3.47E-07	6.45E-07	2.19E-08	5.22E-07	5.93E-07
++1,3-Butadiene	00106-99-0	1.53E-06	< 1.17E-08	6.67E-07	< 1.61E-08	< 1.25E-08	8.66E-07	< 8.80E-09	< 1.65E-08	< 4.43E-09	< 1.06E-08	3.31E-07
1,3-Dichlorobenzene	00541-73-1	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
++1,3,5-Trimethylbenzene	00108-67-8	9.50E-07	8.35E-07	3.55E-07	6.05E-07	2.96E-07	2.44E-07	1.04E-07	7.16E-07	0.00E+00	2.92E-07	2.04E-07
1,4-Dichlorobenzene	00106-46-7	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	8.79E-08	< 3.15E-07	< 3.01E-07	< 3.68E-08
++1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	4.65E-07	2.33E-06	< 6.37E-08	< 8.00E-08	< 6.21E-08	< 6.14E-08	< 4.37E-08	2.88E-07	4.62E-07	1.95E-07	< 2.05E-08
1,4-Dioxane	00123-91-1	< 3.51E-07	< 3.34E-07	< 3.65E-07	< 1.83E-06	< 3.56E-07	< 3.52E-07	< 5.00E-07	< 4.69E-07	< 1.26E-06	< 1.20E-06	< 1.47E-07
2-Butanone	00078-93-3	< 1.75E-07	2.76E-07	< 1.82E-07	2.06E-06	< 1.78E-07	< 1.76E-07	< 2.50E-07	< 2.34E-07	< 6.30E-07	5.26E-07	< 7.36E-08
+ 2-Chloro-1,3-Butadiene	00126-99-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ 2-Chloro-1,3-Butadiene dimer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ 2-Ethylhexanal	00123-05-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2-Hexanone	00591-78-6	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
++2-Methyl-1-butene	00563-46-2	< 1.28E-08	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
++2-Methyl-2-butene	00513-35-9	1.92E-06	< 1.22E-08	1.25E-06	< 1.67E-08	< 1.30E-08	2.82E-06	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	9.01E-07
++2-Methyl-2-pentene	00625-27-4	< 1.28E-08	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
+ 2-Methyl-2-Propanol	00075-65-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00
++2-Methylheptane	00592-27-8	3.12E-06	2.98E-06	1.19E-06	5.11E-06	9.24E-07	1.20E-06	1.45E-06	5.22E-06	0.00E+00	3.80E-06	4.37E-07
++2-Methylhexane	00591-76-4	1.17E-06	1.62E-06	6.79E-07	2.39E-06	1.19E-07	7.07E-07	8.38E-07	2.20E-06	0.00E+00	2.91E-06	2.85E-07
++2-Methylpentane	00107-83-5	5.24E-07	1.10E-06	2.59E-07	3.77E-07	1.97E-07	1.68E-07	3.92E-07	4.55E-07	3.76E-07	1.60E-06	2.00E-07
+ 2-Phenyl-2-Propanol		0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-06	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++2,2-Dimethylbutane	00075-83-2	< 1.31E-08	< 1.25E-08	< 1.36E-08	< 1.71E-08	< 1.33E-08	< 1.31E-08	< 9.34E-09	< 1.75E-08	5.18E-08	< 1.12E-08	< 4.39E-09
++2,2-Dimethylpropane	00463-82-1	< 1.32E-08	< 1.25E-08	< 1.37E-08	< 1.72E-08	< 1.33E-08	< 1.32E-08	< 9.39E-09	< 1.76E-08	< 4.73E-09	< 1.13E-08	< 4.42E-09
++2,3-Dimethylpentane	00565-59-3	3.39E-07	4.47E-07	2.31E-07	7.85E-07	< 1.32E-08	2.59E-07	2.98E-07	6.28E-07	0.00E+00	1.57E-06	9.20E-08

* - Extruded, all other compounds are unextruded

\+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
++2,3,4-Trimethylpentane	00565-75-3	4.17E-07	4.46E-07	< 1.35E-08	4.77E-07	< 1.32E-08	< 1.31E-08	1.54E-07	5.92E-07	2.13E-07	3.35E-07	< 4.37E-09
++2,4-Dimethylhexane	00589-43-5	1.09E-06	9.42E-07	3.79E-07	1.29E-06	< 1.32E-08	2.87E-07	5.57E-07	1.36E-06	0.00E+00	8.71E-07	1.90E-07
+ 3-Methylheptane	00589-81-1	8.77E-07	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06	0.00E+00
++3-Methylhexane	00589-34-4	1.54E-06	2.14E-06	1.87E-06	3.41E-06	7.15E-07	1.02E-06	1.04E-06	3.11E-06	0.00E+00	3.81E-06	3.50E-07
++3-Methylpentane	00096-14-0	2.23E-07	8.48E-07	1.36E-07	6.85E-07	2.26E-07	1.71E-07	1.42E-06	5.60E-07	0.00E+00	3.59E-07	6.37E-08
++4-Methyl-1-pentene	00691-37-2	1.15E-07	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	5.79E-08
++4-Methyl-2-Pentanone	00108-10-1	3.07E-05	5.43E-07	9.58E-06	< 4.59E-07	1.64E-06	< 8.80E-08	< 1.25E-07	< 1.17E-07	6.30E-06	< 3.01E-07	7.72E-06
+ Acetaldehyde	00075-07-0	0.00E+00	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acetone	00067-64-1	7.01E-06	2.84E-05	2.87E-06	7.45E-06	2.89E-06	4.84E-06	5.63E-06	6.45E-06	0.00E+00	8.27E-05	1.58E-06
Acetonitrile	01722-09-4	< 1.75E-07	1.34E-06	< 1.82E-07	< 9.17E-07	< 1.78E-07	< 1.76E-07	< 2.50E-07	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
+ Acetophenone	00098-86-2	2.19E-06	0.00E+00	9.12E-06	0.00E+00	1.33E-04	8.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06
++Acetylene	00074-86-2	< 1.19E-08	2.26E-07	< 1.24E-08	3.42E-07	< 1.20E-08	< 1.19E-08	2.71E-07	< 1.59E-08	0.00E+00	4.89E-07	< 3.98E-09
Acrolein	00107-02-8	< 1.75E-07	< 1.67E-07	< 1.82E-07	< 9.17E-07	< 1.78E-07	< 1.76E-07	< 2.50E-07	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
Acrylonitrile	00107-13-1	< 1.75E-07	< 1.67E-07	< 1.82E-07	< 9.17E-07	< 1.78E-07	< 1.76E-07	< 2.50E-07	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
Allyl Chloride	00107-05-1	< 1.75E-07	< 1.67E-07	< 1.82E-07	< 9.17E-07	< 1.78E-07	< 1.76E-07	< 2.50E-07	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
+ Alpha-Methoxy Cumene		0.00E+00	0.00E+00	2.28E-06	0.00E+00	1.33E-05	8.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Alpha-Methyl Styrene		0.00E+00	0.00E+00	4.10E-06	0.00E+00	4.45E-05	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-06
++a-Pinene	07785-70-8	< 1.24E-08	4.02E-07	< 1.29E-08	5.20E-07	< 1.26E-08	< 1.25E-08	< 8.86E-09	2.46E-07	< 4.46E-09	3.62E-07	2.92E-07
+ Benzaldehyde	00100-52-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-07
++Benzene	00071-43-2	4.04E-06	1.92E-06	2.20E-06	8.69E-06	7.22E-07	4.76E-07	7.45E-07	2.35E-06	6.61E-08	3.26E-06	2.79E-06
Benzyl Chloride	00100-44-7	< 1.75E-07	< 1.67E-07	< 1.82E-07	< 9.17E-07	< 1.78E-07	< 1.76E-07	< 2.50E-07	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
++b-Pinene	18172-67-3	3.73E-07	2.60E-07	< 6.46E-08	< 8.12E-08	< 6.30E-08	< 6.23E-08	< 4.43E-08	2.66E-07	2.90E-07	2.00E-07	< 2.08E-08
Bromodichloromethane	00075-27-4	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
Bromoform	00075-25-2	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
Bromomethane	00074-83-9	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
+ Butene Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-07
+ Butyl Propionate	00590-01-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00
+ *C10H14 Alkyl Benzene*		*0.00E+00*	*4.18E-06*	*0.00E+00*	*0.00E+00*	*0.00E+00*	*0.00E+00*	*0.00E+00*	*0.00E+00*	*0.00E+00*	*0.00E+00*	0.00E+00
+ C10H18 Cyclic Alkene		0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-06
+ C10H22 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-06	0.00E+00	0.00E+00	0.00E+00
+ C11H22 Cyclic Alkene		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-07
+ C12H24 Alkene		0.00E+00	0.00E+00	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	6.25E-06
+ C7H16 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06	0.00E+00	0.00E+00	0.00E+00
Carbon Disulfide	00075-15-0	< 8.77E-08	2.00E-07	< 9.12E-08	1.38E-04	5.78E-07	3.08E-07	1.47E-05	3.52E-05	1.10E-04	< 3.01E-07	3.24E-07
Carbon Tetrachloride	00056-23-5	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	7.03E-06	< 3.15E-07	< 3.01E-07	< 3.68E-08
Chlorobenzene	00108-90-7	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
Chlorodibromomethane	00124-48-1	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
Chloroethane	00075-00-3	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
Chloroform	00067-66-3	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	3.87E-06	< 3.15E-07	< 3.01E-07	< 3.68E-08
Chloromethane	00074-87-3	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
cis-1,2-Dichloroethene	00156-59-2	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
cis-1,3-Dichloropropene	10061-01-5	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
++cis-2-Butene	00590-18-1	< 1.28E-08	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
++cis-2-Hexene	07688-21-3	< 1.28E-08	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
++cis-2-Pentene	00627-20-3	4.86E-07	3.17E-06	8.52E-07	1.41E-06	1.35E-06	2.41E-06	5.11E-06	7.18E-07	0.00E+00	2.19E-04	1.01E-06
++Cumene	00098-82-8	2.19E-07	2.55E-07	2.00E-07	2.23E-07	1.51E-06	2.93E-06	< 8.69E-09	2.08E-07	0.00E+00	2.30E-07	9.81E-08
++Cyclohexane	00110-82-7	7.93E-07	1.19E-06	5.32E-07	1.47E-06	2.33E-07	4.88E-07	6.20E-07	1.13E-06	0.00E+00	2.85E-06	2.10E-07
+ Cyclohexanone	00108-94-1	1.32E-05	8.35E-06	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Cyclohexene	00110-83-8	8.77E-07	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	2.74E-07	6.52E-07	2.97E-07	5.22E-07	4.34E-07	7.15E-07	1.16E-06	2.10E-07	0.00E+00	4.65E-05	2.63E-07
++Cyclopentene	00142-29-0	4.47E-07	4.02E-07	< 1.29E-08	3.57E-07	< 1.26E-08	< 1.25E-08	< 8.86E-09	2.29E-07	< 4.46E-09	2.34E-07	2.92E-08
Dichlorodifluoromethane	00075-71-8	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
+ Diisopropylbenzene Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-07
+ Dimethyl Cyclohexane	27195-67-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-06	0.00E+00	0.00E+00	0.00E+00
+ Dimethyl Cyclohexane Isomer		8.77E-07	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++d-Limonene	05989-27-5	< 6.21E-08	4.97E-06	3.88E-07	1.72E-06	< 6.30E-08	5.24E-06	1.36E-05	5.65E-07	< 2.23E-08	2.34E-07	9.17E-07
Epichlorohydrin	00106-89-8	< 1.75E-07	< 1.67E-07	< 1.82E-07	3.38E-06	< 1.78E-07	< 1.76E-07	< 2.50E-07	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
++Ethane	00074-84-0	< 1.37E-08	1.54E-07	< 1.43E-08	< 1.79E-08	< 1.39E-08	< 1.38E-08	< 9.78E-09	< 1.83E-08	0.00E+00	1.62E-07	< 4.60E-09
++Ethylacetylene	00107-00-6	< 1.23E-08	< 1.17E-08	< 1.28E-08	< 1.61E-08	< 1.25E-08	< 1.24E-08	< 8.80E-09	< 1.65E-08	< 4.43E-09	< 1.06E-08	< 4.14E-09
Ethylbenzene	00100-41-4	2.32E-06	7.52E-07	1.23E-06	1.83E-06	1.56E-06	1.19E-06	1.07E-06	4.16E-06	0.00E+00	1.65E-06	5.15E-07
++Ethylbenzene	00100-41-4	4.60E-06	1.59E-06	2.77E-06	3.80E-06	3.19E-06	2.91E-06	< 9.12E-09	8.74E-06	0.00E+00	3.11E-06	1.18E-06
++Ethylene	00074-85-1	< 1.28E-08	1.34E-07	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 2.50E-07	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
Hexachlorobutadiene	00087-68-3	< 1.75E-07	< 1.67E-07	< 1.82E-07	< 9.17E-07	3.69E-07	4.84E-07	< 9.45E-09	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
++Isobutane	00075-28-5	< 1.33E-08	< 1.26E-08	< 1.38E-08	< 1.73E-08	< 1.34E-08	< 1.33E-08	0.00E+00	< 1.77E-08	< 4.76E-09	< 1.14E-08	< 4.45E-09
+ Isobutyl Butyrate	00539-90-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-06	0.00E+00
+ Isobutyl Thiocyanate		0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++Isobutylene + 1-Butene	00115-11-7/00106-98-9	3.33E-07	1.92E-06	4.79E-08	2.91E-06	2.59E-06	7.44E-08	2.79E-07	8.89E-06	1.88E-06	6.36E-06	1.91E-06
++Isooctane	00540-84-1	4.43E-07	6.20E-07	2.09E-07	9.19E-07	< 1.32E-08	2.43E-07	7.32E-06	1.04E-06	0.00E+00	1.56E-06	8.96E-08
++Isopentane	00078-78-4	8.42E-06	3.01E-05	4.38E-06	1.10E-05	3.74E-06	6.60E-06	< 8.86E-09	7.74E-06	4.49E-06	< 1.13E-08	2.65E-06
++Isoprene	00078-79-5	< 1.24E-08	< 1.18E-08	< 1.29E-08	< 1.62E-08	< 1.26E-08	< 1.25E-08	0.00E+00	< 1.66E-08	9.15E-08	< 1.07E-08	< 4.17E-09
+ m- & p-Ethyl Toluene	00620-14-4/00622-96-8	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Methyl Cyclohexane	00108-87-2	1.75E-06	2.51E-06	9.12E-07	4.59E-06	0.00E+00	8.80E-07	< 8.47E-09	2.93E-06	0.00E+00	3.38E-06	0.00E+00
++Methylacetylene	00074-99-7	< 1.19E-08	< 1.13E-08	< 1.24E-08	< 1.55E-08	< 1.20E-08	< 1.19E-08	2.55E-06	< 1.59E-08	< 4.27E-09	< 1.02E-08	< 3.98E-09
++Methylcyclohexane	00108-87-2	5.12E-06	5.36E-06	2.50E-06	8.36E-06	1.56E-06	1.95E-06	4.01E-07	7.53E-06	0.00E+00	5.70E-06	1.01E-06
++Methylcyclopentane	00096-37-7	3.33E-07	9.50E-07	2.16E-07	9.03E-07	2.85E-07	3.59E-07	4.38E-07	9.58E-07	0.00E+00	5.05E-07	7.94E-08
Methylene Chloride	00075-09-2	3.68E-06	1.00E-06	2.10E-06	2.12E-06	1.96E-06	4.14E-06	8.34E-08	4.75E-07	1.97E-07	1.24E-06	1.18E-06

* - Extruded, all other compounds are unextruded
+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 5 Autoclave Speciated Volatiles Summary
Cooldown - Gas

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
++m-Ethyltoluene	00620-14-4	9.74E-07	9.97E-07	4.56E-07	9.24E-07	6.67E-07	4.89E-07	4.32E-06	3.58E-07	1.53E-07	3.76E-07	2.66E-07
++m-Xylene + p-Xylene	00108-38-3/00106-42-3	2.66E-05	2.77E-05	8.56E-06	1.49E-05	1.10E-05	9.23E-06	0.00E+00	3.17E-05	0.00E+00	1.20E-05	4.06E-06
+ Naphthalene	00091-20-3	0.00E+00	o 0.00E+00	9.12E-07	0.00E+00	0.00E+00	0.00E+00	4.73E-07	0.00E+00	0.00E+00	0.00E+00	3.68E-07
++n-Butane	00106-97-8	9.28E-07	6.56E-07	6.89E-07	8.32E-07	< 1.34E-08	4.79E-07	3.89E-07	< 1.77E-08	7.38E-07	9.32E-07	2.89E-07
++n-Decane	00124-18-5	5.97E-07	2.97E-06	3.51E-07	1.43E-06	2.45E-07	3.91E-07	0.00E+00	8.67E-07	1.17E-07	4.23E-07	3.48E-07
+ n-Dodecane	00112-40-3	0.00E+00	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++n-Heptane	00142-82-5	3.92E-06	4.72E-06	1.98E-06	7.51E-06	1.38E-06	1.99E-06	1.29E-06	6.98E-06	0.00E+00	6.72E-06	7.23E-07
++n-Hexane	00110-54-3	1.26E-06	2.49E-06	9.54E-07	2.26E-06	1.09E-06	9.46E-07	9.08E-07	1.82E-06	0.00E+00	1.53E-06	3.30E-07
++n-Nonane	00111-84-2	1.72E-06	2.25E-06	7.30E-07	3.06E-06	5.01E-07	6.26E-07	1.34E-06	2.12E-06	0.00E+00	3.34E-06	3.05E-07
++n-Octane	00111-65-9	3.39E-06	2.98E-06	1.33E-06	5.79E-06	8.19E-07	1.20E-06	1.43E-07	5.22E-06	0.00E+00	4.02E-06	4.81E-07
++n-Pentane	00109-66-0	1.32E-07	1.23E-07	< 1.37E-08	2.68E-07	< 1.33E-08	< 1.32E-08	< 8.69E-09	3.87E-07	4.02E-07	1.60E-07	7.51E-08
++n-Propylbenzene	00103-65-1	2.29E-07	3.02E-07	< 1.27E-08	1.88E-07	< 1.23E-08	< 1.22E-08	0.00E+00	1.37E-07	< 4.38E-09	1.73E-07	1.74E-07
+ n-Undecane	00112-21-4	0.00E+00	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	< 4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++o-Ethyltoluene	00611-14-3	4.63E-06	2.27E-07	7.35E-06	3.50E-07	5.93E-05	6.35E-05	1.59E-06	1.56E-07	1.53E-07	5.85E-07	3.88E-06
++o-Xylene	00095-47-6	4.36E-06	2.07E-06	2.77E-06	3.48E-06	1.18E-05	2.91E-06	1.34E-05	7.12E-06	0.00E+00	3.94E-05	2.64E-06
++p-Cymene	00099-87-6	3.67E-07	8.86E-06	5.35E-07	3.52E-06	< 6.21E-08	< 6.14E-08	< 8.69E-09	3.27E-07	3.34E-06	7.77E-07	1.07E-06
++p-Ethyltoluene	00622-96-8	5.36E-07	3.48E-07	2.79E-07	2.90E-07	< 1.23E-08	< 1.22E-08	8.03E-07	3.26E-07	< 4.38E-09	1.88E-07	1.51E-07
++Propane	00074-98-6	3.75E-07	2.30E-06	7.53E-07	1.61E-06	< 1.36E-08	1.96E-07	< 9.12E-09	5.38E-07	0.00E+00	5.29E-07	2.47E-08
++Propylene	00115-07-1	< 1.28E-08	2.07E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 2.50E-07	< 1.71E-08	9.19E-09	5.27E-08	< 4.29E-09
Propylene Oxide	00075-56-9	< 1.75E-07	< 1.67E-07	< 1.82E-07	< 9.17E-07	< 1.78E-07	< 1.76E-07	7.79E-08	< 2.34E-07	< 6.30E-07	< 6.02E-07	< 7.36E-08
++Styrene	00100-42-5	8.78E-07	5.20E-07	1.21E-06	3.42E-07	3.37E-07	3.57E-07	0.00E+00	6.03E-07	2.56E-07	< 1.02E-08	2.39E-07
t-Butyl Methyl Ether	01634-04-4	< 1.75E-07	< 1.67E-07	< 1.82E-07	< 9.17E-07	< 1.78E-07	< 1.76E-07	3.44E-07	< 2.34E-07	< 6.30E-07	3.23E-05	< 7.36E-08
Tetrachloroethene	00127-18-4	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	3.63E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
+ Tetrahydromethylnaphthalene Isomer		0.00E+00	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++Toluene	00108-88-3	1.90E-05	1.35E-05	6.24E-06	2.67E-05	4.38E-06	6.50E-06	7.19E-06	2.60E-05	0.00E+00	2.47E-05	2.42E-06
trans-1,2-Dichloroethene	00156-60-5	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
trans-1,2-Dichloropropene	10061-02-6	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
++trans-2-Butene	00624-64-6	< 1.28E-08	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
++trans-2-Hexene	04050-45-7	1.13E-07	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	< 4.60E-09	< 1.10E-08	< 4.29E-09
++trans-2-Pentene	00646-04-8	< 1.28E-08	< 1.22E-08	< 1.33E-08	< 1.67E-08	< 1.30E-08	< 1.28E-08	< 9.12E-09	< 1.71E-08	2.76E-08	< 1.10E-08	< 4.29E-09
Trichloroethene	00079-01-6	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
Trichlorofluoromethane	00075-69-4	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
Trichlortrifluoroethane	00076-13-1	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
+ Unknown		1.32E-06	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl Acetate	00108-05-4	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
Vinyl Chloride	00075-01-4	< 8.77E-08	< 8.35E-08	< 9.12E-08	< 4.59E-07	< 8.89E-08	< 8.80E-08	< 1.25E-07	< 1.17E-07	< 3.15E-07	< 3.01E-07	< 3.68E-08
TOTAL Detected		1.78E-04	2.10E-04	1.14E-04	3.04E-04	3.19E-04	2.78E-04	1.07E-04	2.08E-04	1.51E-04	6.31E-04	6.58E-05
TOTAL with non-detects		< 1.83E-04	< 2.15E-04	< 1.20E-04	< 3.30E-04	< 3.25E-04	< 2.84E-04	< 1.15E-04	< 2.15E-04	< 1.69E-04	< 6.48E-04	< 6.81E-05

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
+ 1-Butanol	00071-36-3										50,000	
++ 1-Heptene	00592-76-7	3,151	< 117	1,750	< 292	3,793	< 292	< 58	1,400	< 117	< 117	1,167
++ 1-Hexene	00592-41-6	< 117	1,167	1,400	< 292	4,143	3,209	< 58	2,101	< 117	19,838	1,400
++ 1-Octene	00111-60-0	< 117	5,076	875	< 292	1,925	< 292	19,838	40,843	1,167	425,939	513
++ 1-Pentene	00109-67-1	548	8,169	5,310	< 292	8,169	< 292	1,925	5,251	2,917	8,752	7,002
1,1-Dichloroethane	00075-34-3	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
1,1-Dichloroethene	00075-35-4	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
1,1,1-Trichloroethane	00071-55-6	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
1,1,2-Trichloroethane	00079-00-5	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
1,1,2,2-Tetrachloroethane	00079-34-5	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
1,2-Dibromo-3-Chloropropane	00096-12-8	< 4,000	< 8,000	< 800	< 4,000	< 800	< 800	< 8,000	< 16,000	< 16,000	< 8,000	< 1,600
1,2-Dibromoethane	00106-93-4	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
1,2-Dichlorobenzene	00095-50-1	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
1,2-Dichloroethane	00107-06-2	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
1,2-Dichloropropane	00078-87-5	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
++ 1,2,4-Trimethylbenzene	00095-63-6	53,331	21,666	55,553	19,443	12,777	36,109	2,667	11,666	41,109	4,889	< 56
++ 1,3-Butadiene	00106-99-0	6,750	73,127	2,081	< 281	1,013	< 281	8,438	< 45	1,800	< 113	< 11
+ 1,3-Cyclooctadiene	01700-10-3						7,000					
1,3-Dichlorobenzene	00541-73-1	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
++ 1,3,5-Trimethylbenzene	00108-67-8	21,666	14,999	16,110	24,999	4,778	< 1,389	778	6,666	9,777	4,278	8,888
+ 1,4-Dichloro-1,3-Butadiene	02984-42-1							50,000				
1,4-Dichlorobenzene	00106-46-7	< 2,000	< 4,000	< 400	< 2,000	320	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
++ 1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	1,898	11,166	41,874	26,799	< 28	15,633	1,396	4,132	70,349	< 558	< 56
1,4-Dioxane	00123-91-1	< 8,000	< 16,000	< 1,600	< 8,000	< 1,600	< 1,600	< 16,000	< 32,000	< 32,000	< 16,000	< 3,200
2-Butanone	00078-93-3	< 4,000	< 8,000	< 800	< 4,000	1,400	< 800	< 8,000	< 16,000	< 16,000	9,800	< 1,600
+ 2-Butene	00126-99-8		20,000		30,000			20,000			400,000	
+ 2-Chloro-1,3-Butadiene	00126-99-8							200,000				
+ 2-Heptene	14686-13-6										30,000	
2-Hexanone	00591-78-6	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	220,000	< 800
++ 2-Methyl-1-butene	00563-46-2	7,002	< 117	350	< 292	2,859	< 292	< 58	403	1,750	11,670	449
++ 2-Methyl-2-butene	00513-35-9	< 117	1,225,303	385	< 292	934	< 292	12,837	233,391	< 117	758,521	175,043
++ 2-Methyl-2-pentene	00625-27-4	3,443	< 117	642	< 292	245	< 292	< 58	< 47	< 117	< 117	583
+ 2-Methylbutanal	00096-17-3		10,000									

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
+ 2-Methylfuran	00534-22-5	50,000	100,000									
++ 2-Methylheptane	00592-27-8	3,386	4,098	2,019	< 297	2,257	< 297	1,604	2,198	< 119	38,607	1,366
++ 2-Methylhexane	00591-76-4	< 119	< 119	1,429	26,796	2,620	< 298	3,454	10,718	< 119	4,168	< 12
++ 2-Methylpentane	00107-83-5	< 119	6,572	24,496	179,236	37,042	< 299	< 60	< 48	< 119	< 119	31,068
+ 2-Methylpropanal	00078-84-2		20,000									
++ 2,2-Dimethylbutane	00075-83-2	17,924	1,314	1,314	< 299	1,135	< 299	2,808	4,959	4,003	5,855	591
++ 2,2-Dimethylpropane	00463-82-1	< 120	< 120	< 30	< 300	< 6	< 300	< 60	< 48	< 120	< 120	< 12
++ 2,3-Dimethylpentane	00565-59-3	< 119	< 119	953	10,718	191	< 298	1,012	< 48	< 119	2,322	655
++ 2,3,4-Trimethylpentane	00565-75-3	10,691	11,285	1,307	< 297	832	< 297	< 59	< 48	< 119	2,613	1,782
++ 2,4-Dimethylhexane	00589-43-5	23,164	13,661	1,841	< 297	713	< 297	71,275	713	6,652	7,128	< 12
+ 3-Heptanone	00106-35-4										20,000	
+ 3-Heptene	14686-14-7										30,000	
+ 3-Methylbutanal	00590-86-3		20,000									
+ 3-Methylheptane	00589-81-1							20,000			500,000	
+ 3-Methylhexane	00589-34-4				10,000							
++ 3-Methylhexane	00589-34-4	202,455	220,319	166,728	22,032	8,336	< 298	2,144	1,846	9,587	6,550	1,608
++ 3-Methylpentane	00096-14-0	1,613	10,754	717	11,949	1,553	7,767	501,860	1,972	< 119	9,559	956
++ 4-Methyl-1-pentene	00691-37-2	< 117	< 117	8,752	< 292	3,092	< 292	< 58	< 47	< 117	3,501	11,086
++ 4-Methyl-2-Pentanone	00108-10-1	400,000	< 4,000	140,000	< 2,000	30,000	15,000	< 4,000	< 8,000	413,000	< 4,000	170,000
+ Acetaldehyde	00075-07-0		20,000		6,000			6,000			40,000	
Acetone	00067-64-1	7,800	70,000	< 800	11,000	32,000	22,000	33,000	< 16,000	< 16,000	480,000	6,400
Acetonitrile	01722-09-4	< 4,000	9,000	< 800	< 4,000	< 800	< 800	< 8,000	< 16,000	< 16,000	< 8,000	< 1,600
+ Acetophenone	00098-86-2	90,000										
++ Acetylene	00074-86-2	< 108	< 108	< 27	< 271	< 5	< 271	206	103	< 108	< 108	< 11
Acrolein	00107-02-8	< 4,000	4,000	< 800	< 4,000	5,300	< 800	< 8,000	15,000	< 16,000	130,000	< 1,600
Acrylonitrile	00107-13-1	< 4,000	< 8,000	< 800	< 4,000	< 800	< 800	< 8,000	< 16,000	< 16,000	< 8,000	< 1,600
Allyl Chloride	00107-05-1	< 4,000	< 8,000	< 800	< 4,000	< 800	< 800	< 8,000	< 16,000	< 16,000	< 8,000	< 1,600
+ Alpha-Methoxy Cumene						20,000	20,000					
+ Alpha-Methyl Styrene		200,000		100,000		300,000	600,000			2,800,000		200,000
+ Alpha-Pinene	07785-70-8			7,000								10,000
++ a-Pinene	07785-70-8	2,380	5,214	11,901	< 283	5,667	< 283	< 57	4,647	21,422	< 113	12,468
++ Benzene	00071-43-2	243,698	113,726	167,881	297,853	102,895	32,493	49,823	135,388	9,206	64,986	276,191
Benzyl Chloride	00100-44-7	< 4,000	< 8,000	< 800	< 4,000	< 800	< 800	< 8,000	< 16,000	< 16,000	< 8,000	< 1,600
++ b-Pinene	18172-67-3	< 567	4,534	7,367	< 1,417	3,287	< 1,417	1,983	2,267	< 567	4,420	11,334
Bromodichloromethane	00075-27-4	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
Bromoform	00075-25-2	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800

* - Extruded, all other compounds are unextruded
+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
Bromomethane	00074-83-9	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
+ Butanal	00123-72-8				100,000				40,000		30,000	
+ Butene Isomer	25167-67-3	30,000				20,000				900,000		200,000
+ Butyl Acrylate	00141-32-2										70,000	
+ Butyl Propionate	00590-01-2				100,000			300,000	10,000		600,000	
+ Butyl Thiocyanate					80,000							
+ Butyraldehyde	00123-72-8					10,000	4,000					
+ C10H18 Cyclic Alkane				80,000								140,000
+ C10H20 Alkene				9,000						1,400,000		20,000
+ C11H22 Alkene				40,000		10,000				5,950,000		70,000
+ C11H24 Alkane					9,000	20,000	8,000					
+ C12H24 Alkene				40,000						5,710,000		90,000
+ C12H26 Alkane							10,000					
+ C6H12 Alkene		10,000		9,000								10,000
+ C9H12 Cyclic Alkene						40,000	100,000					
Carbon Disulfide	00075-15-0	13,000	67,000	13,000	5,400,000	150,000	37,000	3,900,000	5,000,000	30,610,000	24,000	51,000
Carbon Tetrachloride	00056-23-5	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	3,200	2,300,000	< 8,000	9,400	< 800
+ Carbonyl Sulfide	00463-58-1				100,000	20,000		40,000	70,000	5,000,000		
Chlorobenzene	00108-90-7	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
Chlorodibromomethane	00124-48-1	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
Chloroethane	00075-00-3	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
Chloroform	00067-66-3	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	470,000	< 8,000	9,000	< 800
Chloromethane	00074-87-3	< 2,000	< 4,000	1,600	< 2,000	6,200	3,200	4,100	< 8,000	< 8,000	140,000	4,000
cis-1,2-Dichloroethene	00156-59-2	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
cis-1,3-Dichloropropene	10061-01-5	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
++ cis-2-Butene	00590-18-1	< 117	992	< 29	< 292	566	< 292	< 58	992	< 117	< 117	< 12
++ cis-2-Hexene	07688-21-3	< 117	3,734	< 29	< 292	502	< 292	< 58	1,225	< 117	< 117	< 12
++ cis-2-Pentene	00627-20-3	75,852	< 117	210	35,592	1,692	4,551	5,310	< 47	2,451	385,095	< 12
++ Cumene	00098-82-8	7,222	6,111	15,555	24,999	99,995	161,103	833	1,444	9,833	9,999	44,998
++ Cyclohexane	00110-82-7	13,420	39,093	14,003	28,007	2,042	3,501	3,326	< 47	< 117	9,919	4,318
+ Cyclohexanone	00108-94-1			6,000								
+ Cyclohexene	00110-83-8	60,000	80,000	50,000								
+ Cyclooctadiene					7,000							
++ Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	40,313	9,103	312	< 325	2,471	< 325	52,667	910	9,948	5,721,852	< 13
++ Cyclopentene	00142-29-0	17,001	46,470	2,153	8,501	2,153	< 283	1,133	23,802	4,313	6,800	2,040

*- Extruded, all other compounds are unextruded
+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

	Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
	Dichlorodifluoromethane	00075-71-8	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
++	d-Limonene	05989-27-5	3,514	2,834	7,934	< 1,417	11,334	< 1,417	7,934	1,813	51,004	3,740	< 57
	Epichlorohydrin	00106-89-8	< 4,000	< 8,000	< 800	< 4,000	< 800	< 800	< 8,000	< 16,000	< 16,000	< 8,000	< 1,600
++	Ethane	00074-84-0	1,126	1,313	444	< 313	14,384	16,260	413	331	< 125	38,150	219
+	Ethenyl Cyclohexene	25168-07-4								30,000			
++	Ethylacetylene	00107-00-6	< 113	1,294	< 28	< 281	360	< 281	< 56	2,363	< 113	< 113	< 11
++	Ethylbenzene	00100-41-4	13,801	13,249	9,385	8,833	10,489	4,471	4,140	10,489	276	5,079	11,041
	Ethylbenzene	00100-41-4	4,800	4,100	3,000	1,900	2,900	3,400	< 4,000	< 8,000	4,100	< 4,000	3,200
++	Ethylene	00074-85-1	5,660	6,418	1,517	< 292	1,809	< 292	1,517	875	< 117	5,543	1,109
	Hexachlorobutadiene	00087-68-3	< 4,000	< 8,000	< 800	< 4,000	< 800	< 800	< 8,000	< 16,000	< 16,000	< 8,000	< 1,600
+	Isobutanal	00078-84-2										20,000	
++	Isobutane	00075-28-5	21,155	< 121	2,176	< 302	254	< 302	580	< 48	< 121	21,760	2,478
+	Isobutyl Thiocyanate					70,000							
++	Isobutylene + 1-Butene	00115-11-7/00106-98-9	< 117	81,687	8,752	105,026	35,009	6,418	42,594	35,009	< 117	1,225,303	344,252
+	Isobutylisocyanate						6,000						
++	Isooctane	00540-84-1	< 119	3,683	950	< 297	< 6	< 297	3,801	1,366	< 119	77,215	1,188
++	Isopentane	00078-78-4	< 120	132,055	5,222	15,006	45,019	< 300	60,025	10,204	< 120	< 120	9,604
++	Isoprene	00078-79-5	340	850	< 28	< 283	< 6	< 283	< 57	< 45	< 113	2,323	< 11
+	m- & p-Ethyl Toluene	00620-14-4/00622-96-8	30,000		20,000			8,000					
+	Methacrolein	00078-85-3		20,000									
+	Methyl Cyclohexane	00108-87-2				8,000							
+	Methyl Cyclopentane	00096-37-7						10,000					
+	Methyl Isothiocyanate	00556-61-6				20,000							
++	Methylacetylene	00074-99-7	< 108	< 108	< 27	< 271	< 5	< 271	< 54	< 43	< 108	< 108	< 11
++	Methylcyclohexane	00108-87-2	19,838	8,169	6,418	15,170	3,384	< 292	3,501	1,984	16,279	2,101	5,835
++	Methylcyclopentane	00096-37-7	268	13,420	< 29	16,337	4,259	35,592	1,225	875	< 117	1,809	759
	Methylene Chloride	00075-09-2	200,000	2,300,000	1,600	15,000	3,000	7,000	22,000	520,000	< 8,000	1,100,000	360,000
+	Methylheptene Isomer											20,000	
++	m-Ethyltoluene	00620-14-4	23,888	15,555	29,998	< 278	8,888	< 278	778	7,222	23,332	3,666	15,555
++	m-Xylene + p-Xylene	00108-38-3/00106-42-3	535,472	993,660	27,602	99,366	50,235	18,769	14,905	32,018	45,267	11,041	21,529
++	n-Butane	00106-97-8	< 121	399	2,539	< 302	2,780	< 302	6,649	12,693	< 121	102,755	4,473
++	n-Decane	00124-18-5	11,245	35,512	9,470	< 1,480	9,470	< 1,480	1,420	7,694	32,552	3,729	12,429
++	n-Heptane	00142-82-5	4,823	5,955	4,109	19,055	5,002	< 298	4,764	6,550		178,637	2,680
++	n-Hexane	00110-54-3	20,301	19,118	3,515	37,042	4,352	33,448	3,704	< 48	2,689	13,144	2,201

* - Extruded, all other compounds are unextruded

\+ Tentatively Identified Compound.

++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

Compound	CAS #	Cmpd.#4 µg/m³	Cmpd.#5 µg/m³	Cmpd.#6 µg/m³	Cmpd.#8 µg/m³	Cmpd.#9* µg/m³	Cmpd.#9 µg/m³	Cmpd.#11 µg/m³	Cmpd.#15 µg/m³	Cmpd.#18 µg/m³	Cmpd.#21 µg/m³	Cmpd.#22 µg/m³
++ n-Nonane	00111-84-2	5,454	27,861	2,549	< 296	5,039	< 296	1,245	3,557	2,668	7,114	2,490
++ n-Octane	00111-65-9	5,880	7,128	3,920	< 297	5,227	< 297	4,752	12,473		< 119	2,910
++ n-Pentane	00109-66-0	1,261	5,702	3,902	< 300	2,521	< 300	780	3,541	< 120	27,011	1,080
++ n-Propylbenzene	00103-65-1	7,222	9,999	13,333	15,555	3,278	< 278	1,278	5,444	19,666	5,055	5,111
+ n-Undecane	00112-21-4		200,000									
++ o-Ethyltoluene	00611-14-3	127,771	8,333	288,874	16,110	444,422	< 1,389	12,777	4,000	44,998	26,110	611,080
++ o-Xylene	00095-47-6	18,217	71,764	12,697	28,706	20,425	< 276	391,943	9,937	1,049	1,766,506	8,833
++ p-Cymene	00099-87-6	8,375	17,866	25,683	43,549	16,750	< 1,396	7,817	4,132	51,924	670	30,149
++ p-Ethyltoluene	00622-96-8	16,110	6,666	16,666	< 278	3,222	< 278	439	4,778	12,222	2,167	11,666
++ Propane	00074-98-6	1,039	2,323	1,284	< 306	1,406	< 306	2,385	734	171	45,857	471
+ Propyl Butyrate	00105-66-8					10,000						
++ Propylene	00115-07-1	1,284	5,368	1,284	< 292	4,434	< 292	14,587	1,342	4,114	12,837	934
Propylene Oxide	00075-56-9	< 4,000	< 8,000	< 800	< 4,000	< 800	< 800	< 8,000	< 16,000	< 16,000	< 8,000	< 1,600
++ Styrene	00100-42-5	14,080	5,957	44,949	< 271	23,287	< 271	1,516	2,599	1,516	< 108	20,579
+ t-Butanol	00075-65-0							10,000			100,000	
t-Butyl Methyl Ether	01634-04-4	< 4,000	3,100	< 800	< 4,000	< 800	< 800	29,000	< 16,000	< 16,000	2,400,000	< 1,600
Tetrachloroethene	00127-18-4	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	59,000	< 8,000	3,600	< 800
++ Toluene	00108-88-3	60,230	65,705	19,711	25,187	16,426	12,593	13,689	98,557	116,079	19,164	12,593
trans-1,2-Dichloroethene	00156-60-5	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
trans-1,2-Dichloropropene	10061-02-6	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
++ trans-2-Butene	00624-64-6	< 117	1,459	397	< 292	817	< 292	< 58	2,567	< 117	4,318	187
++ trans-2-Hexene	04050-45-7	< 117	22,756	< 29	< 292	1,050	< 292	642	145,869	1,284	8,169	327
++ trans-2-Pentene	00646-04-8	< 117	< 117	292	< 292	3,676	< 292	< 58	< 47	< 117	4,026	1,284
Trichloroethene	00079-01-6	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
Trichlorofluoromethane	00075-69-4	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
Trichlortrifluoroethane	00076-13-1	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
+ Trimethyl Cyclopentane Isomer									20,000			
+ Trimethylcyclohexane Isomer								10,000			220,000	
+ Unknown		20,000		9,000	10,000	10,000		10,000	40,000		50,000	
Vinyl Acetate	00108-05-4	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
Vinyl Chloride	00075-01-4	< 2,000	< 4,000	< 400	< 2,000	< 400	< 400	< 4,000	< 8,000	< 8,000	< 4,000	< 800
TOTAL Detected		2,800,861	6,398,910	1,640,040	7,139,766	1,775,803	1,246,519	6,016,415	9,504,053	53,420,471	17,848,058	3,075,150
TOTAL with non-detects		< 2,919,762	< 6,612,305	< 1,663,898	< 7,273,180	< 1,796,659	< 1,291,221	< 6,241,343	< 9,960,707	< 53,912,558	< 18,046,225	< 3,121,057

* - Extruded, all other compounds are unextruded
+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
+ 1-Butanol	00071-36-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00
++ 1-Heptene	00592-76-7	1.67E-05	< 7.17E-07	9.33E-06	< 1.63E-06	2.05E-05	< 1.35E-06	< 2.07E-07	8.44E-06	< 6.10E-07	< 7.65E-07	5.79E-06
++ 1-Hexene	00592-41-6	< 6.18E-07	7.17E-06	7.46E-06	< 1.63E-06	2.24E-05	1.49E-05	< 2.07E-07	1.27E-05	< 6.10E-07	1.30E-04	6.95E-06
++ 1-Octene	00111-60-0	< 6.18E-07	3.12E-05	4.66E-06	< 1.63E-06	1.04E-05	< 1.35E-06	7.03E-05	2.46E-04	6.10E-06	2.79E-03	2.55E-06
++ 1-Pentene	00109-67-1	2.91E-05	5.02E-05	2.83E-05	< 1.63E-06	4.41E-05	< 1.35E-06	6.82E-06	3.17E-05	1.53E-05	5.74E-05	3.47E-05
1,1-Dichloroethane	00075-34-3	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
1,1-Dichloroethene	00075-35-4	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
1,1,1-Trichloroethane	00071-55-6	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
1,1,2-Trichloroethane	00079-00-5	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
1,1,2,2-Tetrachloroethane	00079-34-5	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
1,2-Dibromo-3-Chloropropane	00096-12-8	< 2.12E-05	< 4.92E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	< 5.25E-05	< 7.94E-06
1,2-Dibromoethane	00106-93-4	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
1,2-Dichlorobenzene	00095-50-1	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
1,2-Dichloroethane	00107-06-2	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
1,2-Dichloropropane	00078-87-5	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
++ 1,2,4-Trimethylbenzene	00095-63-6	2.83E-04	1.33E-04	2.96E-04	1.09E-04	6.90E-05	1.67E-04	9.45E-06	7.03E-05	2.15E-04	3.21E-05	< 2.76E-07
++ 1,3-Butadiene	00106-99-0	3.58E-05	4.49E-04	1.11E-05	< 1.57E-06	5.47E-06	< 1.30E-06	2.99E-05	< 2.71E-07	9.42E-06	< 7.38E-07	< 5.58E-08
+ 1,3-Cyclooctadiene	01700-10-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-Dichlorobenzene	00541-73-1	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
++ 1,3,5-Trimethylbenzene	00108-67-8	1.15E-04	9.22E-05	8.59E-05	1.40E-04	2.58E-05	< 6.44E-06	2.76E-06	4.02E-05	5.11E-05	2.80E-05	4.41E-05
+ 1,4-Dichloro-1,3-Butadiene	02984-42-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dichlorobenzene	00106-46-7	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	1.73E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
++ 1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	1.01E-05	6.86E-05	2.23E-04	1.50E-04	< 1.51E-07	7.25E-05	4.95E-06	2.49E-05	3.68E-04	< 3.66E-06	< 2.77E-07
1,4-Dioxane	00123-91-1	< 4.24E-05	< 9.83E-05	< 8.53E-06	< 4.47E-05	< 8.64E-06	< 7.42E-06	< 5.67E-05	< 1.93E-04	< 1.67E-04	< 1.05E-04	< 1.59E-05
2-Butanone	00078-93-3	< 2.12E-05	< 4.92E-05	< 4.26E-06	< 2.24E-05	7.56E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	6.43E-05	< 7.94E-06
+ 2-Butene	00126-99-8	0.00E+00	1.23E-04	0.00E+00	1.68E-04	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	2.62E-03	0.00E+00
+ 2-Chloro-1,3-Butadiene	00126-99-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ 2-Heptene	14686-13-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00
2-Hexanone	00591-78-6	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	1.44E-03	< 3.97E-06
++ 2-Methyl-1-butene	00563-46-2	3.71E-05	< 7.17E-07	1.87E-06	< 1.63E-06	1.54E-05	< 1.35E-06	< 2.07E-07	2.43E-06	9.16E-06	7.65E-05	2.23E-06
++ 2-Methyl-2-butene	00513-35-9	< 6.18E-07	7.53E-03	2.05E-06	< 1.63E-06	5.04E-06	< 1.35E-06	4.55E-05	1.41E-03	< 6.10E-07	4.97E-03	8.68E-04
++ 2-Methyl-2-pentene	00625-27-4	1.82E-05	< 7.17E-07	3.42E-06	< 1.63E-06	1.32E-06	< 1.35E-06	< 2.07E-07	< 2.81E-07	< 6.10E-07	< 7.65E-07	2.89E-06
+ 2-Methylbutanal	00096-17-3	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

* - Extruded, all other compounds are unextruded
+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
+ 2-Methylfuran	00534-22-5	2.65E-04	6.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ 2-Methylheptane	00592-27-8	1.79E-05	2.52E-05	1.08E-05	< 1.66E-06	1.22E-05	< 1.38E-06	5.68E-06	1.32E-05	< 6.21E-07	2.53E-04	6.78E-06
++ 2-Methylhexane	00591-76-4	< 6.31E-07	< 7.32E-07	7.62E-06	1.50E-04	1.41E-05	< 1.38E-06	1.22E-05	6.46E-05	< 6.23E-07	2.73E-05	< 5.91E-08
++ 2-Methylpentane	00107-83-5	< 6.33E-07	4.04E-05	1.31E-04	1.00E-03	2.00E-04	< 1.38E-06	< 2.12E-07	< 2.88E-07	< 6.25E-07	< 7.84E-07	1.54E-04
+ 2-Methylpropanal	00078-84-2	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ 2,2-Dimethylbutane	00075-83-2	9.50E-05	8.08E-06	7.01E-06	< 1.67E-06	6.13E-06	< 1.38E-06	9.95E-06	2.99E-05	2.09E-05	3.84E-05	2.93E-06
++ 2,2-Dimethylpropane	00463-82-1	< 6.36E-07	< 7.38E-07	< 1.60E-07	< 1.68E-06	< 3.24E-08	< 1.39E-06	< 2.13E-07	< 2.89E-07	< 6.28E-07	< 7.87E-07	< 5.96E-08
++ 2,3-Dimethylpentane	00565-59-3	< 6.31E-07	< 7.32E-07	5.08E-06	5.99E-05	1.03E-06	< 1.38E-06	3.59E-06	< 2.87E-07	< 6.23E-07	1.52E-05	3.25E-06
++ 2,3,4-Trimethylpentane	00565-75-3	5.67E-05	6.94E-05	6.96E-06	< 1.66E-06	4.49E-06	< 1.38E-06	< 2.10E-07	< 2.86E-07	< 6.21E-07	1.71E-05	8.84E-06
++ 2,4-Dimethylhexane	00589-43-5	1.23E-04	8.40E-05	9.81E-06	< 1.66E-06	3.85E-06	< 1.38E-06	2.53E-04	4.30E-06	3.48E-05	4.67E-05	< 5.89E-08
+ 3-Heptanone	00106-35-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00
+ 3-Heptene	14686-14-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00
+ 3-Methylbutanal	00590-86-3	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ 3-Methylheptane	00589-81-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	3.28E-03	0.00E+00
+ 3-Methylhexane	00589-34-4	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ 3-Methylhexane	00589-34-4	1.07E-03	1.35E-03	8.89E-04	1.23E-04	4.50E-05	< 1.38E-06	7.59E-06	1.11E-05	5.02E-05	4.30E-05	7.98E-06
++ 3-Methylpentane	00096-14-0	8.55E-06	6.61E-05	3.82E-06	6.68E-05	8.39E-06	3.60E-05	1.78E-03	1.19E-05	< 6.25E-07	6.27E-05	4.74E-06
++ 4-Methyl-1-pentene	00691-37-2	< 6.18E-07	< 7.17E-07	4.66E-05	< 1.63E-06	1.67E-05	< 1.35E-06	< 2.07E-07	< 2.81E-07	< 6.10E-07	2.30E-05	5.50E-05
++ 4-Methyl-2-Pentanone	00108-10-1	2.12E-03	< 2.46E-05	7.46E-04	< 1.12E-05	1.62E-04	6.95E-05	< 1.42E-05	< 4.82E-05	2.16E-03	< 2.62E-05	8.43E-04
+ Acetaldehyde	00075-07-0	0.00E+00	1.23E-04	0.00E+00	3.36E-05	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	2.62E-04	0.00E+00
Acetone	00067-64-1	4.13E-05	4.30E-04	< 4.26E-06	6.15E-05	1.73E-04	1.02E-04	1.17E-04	< 9.65E-05	< 8.37E-05	3.15E-03	3.17E-05
Acetonitrile	01722-09-4	< 2.12E-05	5.53E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	< 5.25E-05	< 7.94E-06
+ Acetophenone	00098-86-2	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ Acetylene	00074-86-2	< 5.74E-07	< 6.66E-07	< 1.44E-07	< 1.51E-06	< 2.92E-08	< 1.26E-06	7.29E-07	6.20E-07	< 5.67E-07	< 7.10E-07	< 5.37E-08
Acrolein	00107-02-8	< 2.12E-05	2.46E-05	< 4.26E-06	< 2.24E-05	2.86E-05	< 3.71E-06	< 2.83E-05	9.04E-05	< 8.37E-05	8.52E-04	< 7.94E-06
Acrylonitrile	00107-13-1	< 2.12E-05	< 4.92E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	< 5.25E-05	< 7.94E-06
Allyl Chloride	00107-05-1	< 2.12E-05	< 4.92E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	< 5.25E-05	< 7.94E-06
+ Alpha-Methoxy Cumene		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	9.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Alpha-Methyl Styrene		1.06E-03	0.00E+00	5.33E-04	0.00E+00	1.62E-03	2.78E-03	0.00E+00	0.00E+00	1.46E-02	0.00E+00	9.92E-04
+ Alpha-Pinene	07785-70-8	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
++ a-Pinene	07785-70-8	1.26E-05	3.20E-05	6.34E-05	< 1.58E-06	3.06E-05	< 1.31E-06	< 2.01E-07	2.80E-05	1.12E-04	< 7.43E-07	6.18E-05
++ Benzene	00071-43-2	1.29E-03	6.99E-04	8.95E-04	1.67E-03	5.55E-04	1.51E-04	1.77E-04	8.16E-04	4.82E-05	4.26E-04	1.37E-03
Benzyl Chloride	00100-44-7	< 2.12E-05	< 4.92E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	< 5.25E-05	< 7.94E-06
++ b-Pinene	18172-67-3	< 3.00E-06	2.79E-05	3.93E-05	< 7.92E-06	1.77E-05	< 6.57E-06	7.03E-06	1.37E-05	< 2.96E-06	2.90E-05	5.62E-05
Bromodichloromethane	00075-27-4	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
Bromoform	00075-25-2	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

	Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
	Bromomethane	00074-83-9	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
+	Butanal	00123-72-8	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	1.97E-04	0.00E+00
+	Butene Isomer	25167-67-3	1.59E-04	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	4.71E-03	0.00E+00	9.92E-04
+	Butyl Acrylate	00141-32-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04	0.00E+00
+	Butyl Propionate	00590-01-2	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	1.06E-03	6.03E-05	0.00E+00	3.93E-03	0.00E+00
+	Butyl Thiocyanate		0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Butyraldehyde	00123-72-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	C10H18 Cyclic Alkane		0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04
+	C10H20 Alkene		0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-03	0.00E+00	9.92E-05
+	C11H22 Alkene		0.00E+00	0.00E+00	2.13E-04	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	3.11E-02	0.00E+00	3.47E-04
+	C11H24 Alkane		0.00E+00	0.00E+00	0.00E+00	5.03E-05	1.08E-04	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	C12H24 Alkene		0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-02	0.00E+00	4.46E-04
+	C12H26 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	C6H12 Alkene		5.30E-05	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
+	C9H12 Cyclic Alkene		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Carbon Disulfide	00075-15-0	6.89E-05	4.12E-04	6.93E-05	3.02E-02	8.10E-04	1.72E-04	1.38E-02	3.01E-02	1.60E-01	1.57E-04	2.53E-04
	Carbon Tetrachloride	00056-23-5	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	1.13E-05	1.39E-02	< 4.19E-05	6.16E-05	< 3.97E-06
+	Carbonyl Sulfide	00463-58-1	0.00E+00	0.00E+00	0.00E+00	5.59E-04	1.08E-04	0.00E+00	1.42E-04	4.22E-04	2.62E-02	0.00E+00	0.00E+00
	Chlorobenzene	00108-90-7	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
	Chlorodibromomethane	00124-48-1	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
	Chloroethane	00075-00-3	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
	Chloroform	00067-66-3	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	2.83E-03	< 4.19E-05	5.90E-05	< 3.97E-06
	Chloromethane	00074-87-3	< 1.06E-05	< 2.46E-05	8.53E-06	< 1.12E-05	3.35E-05	1.48E-05	1.45E-05	< 4.82E-05	< 4.19E-05	9.18E-04	1.98E-05
	cis-1,2-Dichloroethene	00156-59-2	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
	cis-1,3-Dichloropropene	10061-01-5	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
++	cis-2-Butene	00590-18-1	< 6.18E-07	6.10E-06	< 1.55E-07	< 1.63E-06	3.06E-06	< 1.35E-06	< 2.07E-07	5.98E-06	< 6.10E-07	< 7.65E-07	< 5.79E-08
++	cis-2-Hexene	07688-21-3	< 6.18E-07	2.30E-05	< 1.55E-07	< 1.63E-06	2.71E-06	< 1.35E-06	< 2.07E-07	7.39E-06	< 6.10E-07	< 7.65E-07	< 5.79E-08
++	cis-2-Pentene	00627-20-3	4.02E-04	< 7.17E-07	1.12E-06	1.99E-04	9.13E-06	2.11E-05	1.88E-05	< 2.81E-07	1.28E-05	2.53E-03	< 5.79E-08
++	Cumene	00098-82-8	3.83E-05	3.76E-05	8.29E-05	1.40E-04	5.40E-04	7.47E-04	2.95E-06	8.71E-06	5.14E-05	6.56E-05	2.23E-04
++	Cyclohexane	00110-82-7	7.11E-05	2.40E-04	7.46E-05	1.57E-04	1.10E-05	1.62E-05	1.18E-05	< 2.81E-07	< 6.10E-07	6.50E-05	2.14E-05
+	Cyclohexanone	00108-94-1	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Cyclohexene	00110-83-8	3.18E-04	4.92E-04	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Cyclooctadiene		0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++	Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	2.14E-04	5.59E-05	1.66E-06	< 1.82E-06	1.33E-05	< 1.51E-06	1.87E-04	5.49E-06	5.20E-05	3.75E-02	< 6.45E-08
++	Cyclopentene	00142-29-0	9.01E-05	2.86E-04	1.15E-05	4.75E-05	1.16E-05	< 1.31E-06	4.02E-06	1.43E-04	2.26E-05	4.46E-05	1.01E-05

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

	Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
	Dichlorodifluoromethane	00075-71-8	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
++	d-Limonene	05989-27-5	1.86E-05	1.74E-05	4.23E-05	< 7.92E-06	6.12E-05	< 6.57E-06	2.81E-05	1.09E-05	2.67E-04	2.45E-05	< 2.81E-07
	Epichlorohydrin	00106-89-8	< 2.12E-05	< 4.92E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	< 5.25E-05	< 7.94E-06
++	Ethane	00074-84-0	5.97E-06	8.07E-06	2.37E-06	< 1.75E-06	7.77E-05	7.54E-05	1.46E-06	2.00E-06	< 6.54E-07	2.50E-04	1.09E-06
+	Ethenyl Cyclohexene	25168-07-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00
++	Ethylacetylene	00107-00-6	< 5.96E-07	7.95E-06	< 1.50E-07	< 1.57E-06	1.94E-06	< 1.30E-06	< 1.99E-07	1.42E-05	< 5.89E-07	< 7.38E-07	< 5.58E-08
++	Ethylbenzene	00100-41-4	7.31E-05	8.14E-05	5.00E-05	4.94E-05	5.66E-05	2.07E-05	1.47E-05	6.32E-05	1.44E-06	3.33E-05	5.48E-05
	Ethylbenzene	00100-41-4	2.54E-05	2.52E-05	1.60E-05	1.06E-05	1.57E-05	1.58E-05	< 1.42E-05	< 4.82E-05	2.14E-05	< 2.62E-05	1.59E-05
++	Ethylene	00074-85-1	3.00E-05	3.94E-05	8.09E-06	< 1.63E-06	9.76E-06	< 1.35E-06	5.37E-06	5.28E-06	< 6.10E-07	3.63E-05	5.50E-06
	Hexachlorobutadiene	00087-68-3	< 2.12E-05	< 4.92E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	< 5.25E-05	< 7.94E-06
+	Isobutanal	00078-84-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00
++	Isobutane	00075-28-5	1.12E-04	< 7.43E-07	1.16E-05	< 1.69E-06	1.37E-06	< 1.40E-06	2.06E-06	< 2.92E-07	< 6.32E-07	1.43E-04	1.23E-05
+	Isobutyl Thiocyanate		0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++	Isobutylene + 1-Butene	00115-11-7/00106-98-9	< 6.18E-07	5.02E-04	4.66E-05	5.87E-04	1.89E-04	2.98E-05	1.51E-04	2.11E-04	< 6.10E-07	8.03E-03	1.71E-03
+	Isobutylisocyanate		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++	Isooctane	00540-84-1	< 6.30E-07	2.26E-05	5.07E-06	< 1.66E-06	< 3.21E-08	< 1.38E-06	1.35E-05	8.24E-06	< 6.21E-07	5.06E-04	5.89E-06
++	Isopentane	00078-78-4	< 6.36E-07	8.12E-04	2.78E-05	8.39E-05	2.43E-04	< 1.39E-06	2.13E-04	6.15E-05	< 6.28E-07	< 7.87E-07	4.76E-05
++	Isoprene	00078-79-5	1.80E-06	5.22E-06	< 1.51E-07	< 1.58E-06	< 3.06E-08	< 1.31E-06	< 2.01E-07	< 2.73E-07	< 5.93E-07	1.52E-05	< 5.62E-08
+	m- & p-Ethyl Toluene	00620-14-4/00622-96-8	1.59E-04	0.00E+00	1.07E-04	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Methacrolein	00078-85-3	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Methyl Cyclohexane	00108-87-2	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Methyl Cyclopentane	00096-37-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Methyl Isothiocyanate	00556-61-6	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++	Methylacetylene	00074-99-7	< 5.74E-07	< 6.66E-07	< 1.44E-07	< 1.51E-06	< 2.92E-08	< 1.26E-06	< 1.92E-07	< 2.61E-07	< 5.67E-07	< 7.10E-07	< 5.37E-08
++	Methylcyclohexane	00108-87-2	1.05E-04	5.02E-05	3.42E-05	8.48E-05	1.83E-05	< 1.35E-06	1.24E-05	1.20E-05	8.52E-05	1.38E-05	2.89E-05
++	Methylcyclopentane	00096-37-7	1.42E-06	8.25E-05	< 1.55E-07	9.14E-05	2.30E-05	1.65E-04	4.34E-06	5.28E-06	< 6.10E-07	1.19E-05	3.76E-06
	Methylene Chloride	00075-09-2	1.06E-03	1.41E-02	8.53E-06	8.39E-05	1.62E-05	3.25E-05	7.79E-05	3.13E-03	< 4.19E-05	7.21E-03	1.79E-03
+	Methylheptene Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00
++	m-Ethyltoluene	00620-14-4	1.27E-04	9.56E-05	1.60E-04	< 1.55E-06	4.80E-05	< 1.29E-06	2.76E-06	4.35E-05	1.22E-04	2.40E-05	7.72E-05
++	m-Xylene + p-Xylene	00108-38-3/00106-42-3	2.84E-03	6.11E-03	1.47E-04	5.56E-04	2.71E-04	8.70E-05	5.28E-05	1.93E-04	2.37E-04	7.24E-05	1.07E-04
++	n-Butane	00106-97-8	< 6.41E-07	2.45E-06	1.35E-05	< 1.69E-06	1.50E-05	< 1.40E-06	2.36E-05	7.65E-05	< 6.32E-07	6.74E-04	2.22E-05
++	n-Decane	00124-18-5	5.96E-05	2.18E-04	5.05E-05	< 8.28E-06	5.11E-05	< 6.86E-06	5.03E-06	4.64E-05	1.70E-04	2.45E-05	6.17E-05
++	n-Heptane	00142-82-5	2.56E-05	3.66E-05	2.19E-05	1.07E-04	2.70E-05	< 1.38E-06	1.69E-05	3.95E-05	0.00E+00	1.17E-03	1.33E-05
++	n-Hexane	00110-54-3	1.08E-04	1.18E-04	1.87E-05	2.07E-04	2.35E-05	1.55E-04	1.31E-05	< 2.88E-07	1.41E-05	8.62E-05	1.09E-05

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
++ n-Nonane	00111-84-2	2.89E-05	1.71E-04	1.36E-05	< 1.66E-06	2.72E-05	< 1.37E-06	4.41E-06	2.14E-05	1.40E-05	4.66E-05	1.24E-05
++ n-Octane	00111-65-9	3.12E-05	4.38E-05	2.09E-05	< 1.66E-06	2.82E-05	< 1.38E-06	1.68E-05	7.52E-05	0.00E+00	< 7.79E-07	1.44E-05
++ n-Pentane	00109-66-0	6.68E-06	3.50E-05	2.08E-05	< 1.68E-06	1.36E-05	< 1.39E-06	2.76E-06	2.14E-05	< 6.28E-07	1.77E-04	5.36E-06
++ n-Propylbenzene	00103-65-1	3.83E-05	6.15E-05	7.11E-05	8.70E-05	1.77E-05	< 1.29E-06	4.53E-06	3.28E-05	1.03E-04	3.31E-05	2.54E-05
+ n-Undecane	00112-21-4	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ o-Ethyltoluene	00611-14-3	6.77E-04	5.12E-05	1.54E-03	9.01E-05	2.40E-03	< 6.44E-06	4.53E-05	2.41E-05	2.35E-04	1.71E-04	3.03E-03
++ o-Xylene	00095-47-6	9.65E-05	4.41E-04	6.77E-05	1.61E-04	1.10E-04	< 1.28E-06	1.39E-03	5.99E-05	5.49E-06	1.16E-02	4.38E-05
++ p-Cymene	00099-87-6	4.44E-05	1.10E-04	1.37E-04	2.44E-04	9.04E-05	< 6.47E-06	2.77E-05	2.49E-05	2.72E-04	4.39E-06	1.50E-04
++ p-Ethyltoluene	00622-96-8	8.54E-05	4.10E-05	8.88E-05	< 1.55E-06	1.74E-05	< 1.29E-06	1.55E-06	2.88E-05	6.39E-05	1.42E-05	5.79E-05
++ Propane	00074-98-6	5.51E-06	1.43E-05	6.84E-06	< 1.71E-06	7.59E-06	< 1.42E-06	8.45E-06	4.42E-06	8.96E-07	3.01E-04	2.34E-06
+ Propyl Butyrate	00105-66-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ Propylene	00115-07-1	6.80E-06	3.30E-05	6.84E-06	< 1.63E-06	2.39E-05	< 1.35E-06	5.17E-05	8.09E-06	2.15E-05	8.42E-05	4.63E-06
Propylene Oxide	00075-56-9	< 2.12E-05	< 4.92E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	< 2.83E-05	< 9.65E-05	< 8.37E-05	< 5.25E-05	< 7.94E-06
++ Styrene	00100-42-5	7.46E-05	3.66E-05	2.40E-04	< 1.51E-06	1.26E-04	< 1.26E-06	5.37E-06	1.57E-05	7.93E-06	< 7.10E-07	1.02E-04
+ t-Butanol	00075-65-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	6.56E-04	0.00E+00
t-Butyl Methyl Ether	01634-04-4	< 2.12E-05	1.91E-05	< 4.26E-06	< 2.24E-05	< 4.32E-06	< 3.71E-06	1.03E-04	< 9.65E-05	< 8.37E-05	1.57E-02	< 7.94E-06
Tetrachloroethene	00127-18-4	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	3.56E-04	< 4.19E-05	2.36E-05	< 3.97E-06
++ Toluene	00108-88-3	3.19E-04	4.04E-04	1.05E-04	1.41E-04	8.87E-05	5.84E-05	4.85E-05	5.94E-04	6.07E-04	1.26E-04	6.25E-05
trans-1,2-Dichloroethene	00156-60-5	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
trans-1,2-Dichloropropene	10061-02-6	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
++ trans-2-Butene	00624-64-6	< 6.18E-07	8.97E-06	2.11E-06	< 1.63E-06	4.41E-06	< 1.35E-06	< 2.07E-07	1.55E-05	< 6.10E-07	2.83E-05	9.26E-07
++ trans-2-Hexene	04050-45-7	< 6.18E-07	1.40E-04	< 1.55E-07	< 1.63E-06	5.67E-06	< 1.35E-06	2.27E-06	8.79E-04	6.72E-06	5.36E-05	1.62E-06
++ trans-2-Pentene	00646-04-8	< 6.18E-07	< 7.17E-07	1.55E-06	< 1.63E-06	1.98E-05	< 1.35E-06	< 2.07E-07	< 2.81E-07	< 6.10E-07	2.64E-05	6.37E-06
Trichloroethene	00079-01-6	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
Trichlorofluoromethane	00075-69-4	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
Trichlortrifluoroethane	00076-13-1	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
+ Trimethyl Cyclopentane Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00
+ Trimethylcyclohexane Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	1.44E-03	0.00E+00
+ Unknown		1.06E-04	0.00E+00	4.80E-05	5.59E-05	5.40E-05	0.00E+00	3.54E-05	2.41E-04	0.00E+00	3.28E-04	0.00E+00
Vinyl Acetate	00108-05-4	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
Vinyl Chloride	00075-01-4	< 1.06E-05	< 2.46E-05	< 2.13E-06	< 1.12E-05	< 2.16E-06	< 1.85E-06	< 1.42E-05	< 4.82E-05	< 4.19E-05	< 2.62E-05	< 3.97E-06
TOTAL Detected		1.48E-02	3.93E-02	8.74E-03	3.99E-02	9.59E-03	5.78E-03	2.13E-02	5.73E-02	2.79E-01	1.17E-01	1.53E-02
TOTAL with non-detects		< 1.55E-02	< 4.06E-02	< 8.87E-03	< 4.07E-02	< 9.70E-03	< 5.99E-03	< 2.21E-02	< 6.01E-02	< 2.82E-01	< 1.18E-01	< 1.55E-02

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary

Blowdown - Gas

	Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#23 lb/lb rubber
+	1-Butanol	00071-36-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06	0.00E+00
++	1-Heptene	00592-76-7	9.40E-08	< 3.37E-09	6.93E-08	< 1.33E-08	1.30E-07	< 8.45E-09	< 9.92E-10	2.84E-08	< 3.64E-09	< 3.45E-09	3.50E-08
++	1-Hexene	00592-41-6	< 3.48E-09	3.37E-08	5.54E-08	< 1.33E-08	1.42E-07	9.30E-08	< 9.92E-10	4.27E-08	< 3.64E-09	5.86E-07	4.20E-08
++	1-Octene	00111-60-0	< 3.48E-09	1.47E-07	3.46E-08	< 1.33E-08	6.60E-08	< 8.45E-09	3.37E-07	8.30E-07	3.64E-08	1.26E-05	1.54E-08
++	1-Pentene	00109-67-1	1.64E-08	2.36E-07	2.10E-07	< 1.33E-08	2.80E-07	< 8.45E-09	3.27E-08	1.07E-07	9.09E-08	2.59E-07	2.10E-07
	1,1-Dichloroethane	00075-34-3	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	1,1-Dichloroethene	00075-35-4	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	1,1,1-Trichloroethane	00071-55-6	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	1,1,2-Trichloroethane	00079-00-5	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	1,1,2,2-Tetrachloroethane	00079-34-5	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.19E-07	< 2.31E-07	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	< 2.36E-07	< 4.80E-08
	1,2-Dibromoethane	00106-93-4	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	1,2-Dichlorobenzene	00095-50-1	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	1,2-Dichloroethane	00107-06-2	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	1,2-Dichloropropane	00078-87-5	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
++	1,2,4-Trimethylbenzene	00095-63-6	1.59E-06	6.25E-07	2.20E-06	8.87E-07	4.38E-07	1.05E-06	4.53E-08	2.37E-07	1.28E-06	1.44E-07	< 1.67E-09
++	1,3-Butadiene	00106-99-0	2.01E-07	2.11E-06	8.24E-08	< 1.28E-08	3.47E-08	< 8.15E-09	1.43E-07	< 9.14E-10	5.61E-08	< 3.32E-09	< 3.38E-10
+	1,3-Cyclooctadiene	01700-10-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1,3-Dichlorobenzene	00541-73-1	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
++	1,3,5-Trimethylbenzene	00108-67-8	6.46E-07	4.33E-07	6.38E-07	1.14E-06	1.64E-07	< 4.02E-08	1.32E-08	1.35E-07	3.05E-07	1.26E-07	2.67E-07
+	1,4-Dichloro-1,3-Butadiene	02984-42-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1,4-Dichlorobenzene	00106-46-7	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	1.10E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
++	1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	5.66E-08	3.22E-07	1.66E-06	1.22E-06	< 9.56E-10	4.53E-07	2.37E-08	8.39E-08	2.19E-06	< 1.65E-08	< 1.68E-09
	1,4-Dioxane	00123-91-1	< 2.39E-07	< 4.62E-07	< 6.33E-08	< 3.65E-07	< 5.48E-08	< 4.64E-08	< 2.72E-07	< 6.50E-07	< 9.97E-07	< 4.73E-07	< 9.60E-08
	2-Butanone	00078-93-3	< 1.19E-07	< 2.31E-07	< 3.17E-08	< 1.82E-07	4.80E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	2.90E-07	< 4.80E-08
+	2-Butene	00126-99-8	0.00E+00	5.77E-07	0.00E+00	1.37E-06	0.00E+00	0.00E+00	3.40E-07	0.00E+00	0.00E+00	1.18E-05	0.00E+00
+	2-Chloro-1,3-Butadiene	00126-99-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	2-Heptene	14686-13-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-07	0.00E+00
	2-Hexanone	00591-78-6	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	6.50E-06	< 2.40E-08
++	2-Methyl-1-butene	00563-46-2	2.09E-07	< 3.37E-09	1.39E-08	< 1.33E-08	9.80E-08	< 8.45E-09	< 9.92E-10	8.18E-09	5.45E-08	3.45E-07	1.35E-08
++	2-Methyl-2-butene	00513-35-9	< 3.48E-09	3.54E-05	1.52E-08	< 1.33E-08	3.20E-08	< 8.45E-09	2.18E-07	4.74E-06	< 3.64E-09	2.24E-05	5.25E-06
++	2-Methyl-2-pentene	00625-27-4	1.03E-07	< 3.37E-09	2.54E-08	< 1.33E-08	8.40E-09	< 8.45E-09	< 9.92E-10	< 9.48E-10	< 3.64E-09	< 3.45E-09	1.75E-08
+	2-Methylbutanal	00096-17-3	0.00E+00	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

* - Extruded, all other compounds are unextruded

\+ Tentatively Identified Compound.

++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
+ 2-Methylfuran	00534-22-5	1.49E-06	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ 2-Methylheptane	00592-27-8	1.01E-07	1.18E-07	7.99E-08	< 1.35E-08	7.73E-08	< 8.60E-09	2.73E-08	4.46E-08	< 3.70E-09	1.14E-06	4.10E-08
++ 2-Methylhexane	00591-76-4	< 3.55E-09	< 3.44E-09	5.66E-08	1.22E-06	8.98E-08	< 8.63E-09	5.87E-08	2.18E-07	< 3.71E-09	1.23E-07	< 3.57E-10
++ 2-Methylpentane	00107-83-5	< 3.56E-09	1.90E-07	9.70E-07	8.18E-06	1.27E-06	< 8.66E-09	< 1.02E-09	< 9.71E-10	< 3.72E-09	< 3.53E-09	9.32E-07
+ 2-Methylpropanal	00078-84-2	0.00E+00	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ 2,2-Dimethylbutane	00075-83-2	5.35E-07	3.79E-08	5.20E-08	< 1.36E-08	3.89E-08	< 8.66E-09	4.77E-08	1.01E-07	1.25E-07	1.73E-07	1.77E-08
++ 2,2-Dimethylpropane	00463-82-1	< 3.58E-09	< 3.47E-09	< 1.19E-09	< 1.37E-08	< 2.06E-10	< 8.70E-09	< 1.02E-09	< 9.75E-10	< 3.74E-09	< 3.55E-09	< 3.60E-10
++ 2,3-Dimethylpentane	00565-59-3	< 3.55E-09	< 3.44E-09	3.77E-08	4.89E-07	6.53E-09	< 8.63E-09	1.72E-08	< 9.68E-10	< 3.71E-09	6.86E-08	1.97E-08
++ 2,3,4-Trimethylpentane	00565-75-3	3.19E-07	3.26E-07	5.17E-08	< 1.35E-08	2.85E-08	< 8.60E-09	< 1.01E-09	< 9.65E-10	< 3.70E-09	7.72E-08	5.35E-08
++ 2,4-Dimethylhexane	00589-43-5	6.91E-07	3.94E-07	7.29E-08	< 1.35E-08	2.44E-08	< 8.60E-09	1.21E-06	1.45E-08	2.07E-07	2.11E-07	< 3.56E-10
+ 3-Heptanone	00106-35-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-07	0.00E+00
+ 3-Heptene	14686-14-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-07	0.00E+00
+ 3-Methylbutanal	00590-86-3	0.00E+00	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ 3-Methylheptane	00589-81-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-07	0.00E+00	0.00E+00	1.48E-05	0.00E+00
+ 3-Methylhexane	00589-34-4	0.00E+00	0.00E+00	0.00E+00	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ 3-Methylhexane	00589-34-4	6.04E-06	6.36E-06	6.60E-06	1.01E-06	2.86E-07	< 8.63E-09	3.64E-08	3.75E-08	2.99E-07	1.93E-07	4.82E-08
++ 3-Methylpentane	00096-14-0	4.81E-08	3.10E-07	2.84E-08	5.45E-07	5.32E-08	2.25E-07	8.53E-06	4.00E-08	< 3.72E-09	2.82E-07	2.87E-08
++ 4-Methyl-1-pentene	00691-37-2	< 3.48E-09	< 3.37E-09	3.46E-07	< 1.33E-08	1.06E-07	< 8.45E-09	< 9.92E-10	< 9.48E-10	< 3.64E-09	1.03E-07	3.33E-07
++ 4-Methyl-2-Pentanone	00108-10-1	1.19E-05	< 1.15E-07	5.54E-06	< 9.12E-08	1.03E-06	4.35E-07	< 6.80E-08	< 1.62E-07	1.29E-05	< 1.18E-07	5.10E-06
+ Acetaldehyde	00075-07-0	0.00E+00	5.77E-07	0.00E+00	2.74E-07	0.00E+00	0.00E+00	1.02E-07	0.00E+00	0.00E+00	1.18E-06	0.00E+00
Acetone	00067-64-1	2.33E-07	2.02E-06	< 3.17E-08	5.02E-07	1.10E-06	6.37E-07	5.61E-07	< 3.25E-07	< 4.99E-07	1.42E-05	1.92E-07
Acetonitrile	01722-09-4	< 1.19E-07	2.60E-07	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	< 2.36E-07	< 4.80E-08
+ Acetophenone	00098-86-2	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ Acetylene	00074-86-2	< 3.23E-09	< 3.13E-09	< 1.07E-09	< 1.24E-08	< 1.86E-10	< 7.85E-09	3.50E-09	2.09E-09	< 3.37E-09	< 3.20E-09	< 3.25E-10
Acrolein	00107-02-8	< 1.19E-07	1.15E-07	< 3.17E-08	< 1.82E-07	1.82E-07	< 2.32E-08	< 1.36E-07	3.05E-07	< 4.99E-07	3.84E-06	< 4.80E-08
Acrylonitrile	00107-13-1	< 1.19E-07	< 2.31E-07	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	< 2.36E-07	< 4.80E-08
Allyl Chloride	00107-05-1	< 1.19E-07	< 2.31E-07	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	< 2.36E-07	< 4.80E-08
+ Alpha-Methoxy Cumene		0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-07	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Alpha-Methyl Styrene		5.97E-06	0.00E+00	3.96E-06	0.00E+00	1.03E-05	1.74E-05	0.00E+00	0.00E+00	8.72E-05	0.00E+00	6.00E-06
+ Alpha-Pinene	07785-70-8	0.00E+00	0.00E+00	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-07
++ a-Pinene	07785-70-8	7.10E-08	1.51E-07	4.71E-07	< 1.29E-08	1.94E-07	< 8.21E-09	< 9.63E-10	9.44E-08	6.67E-07	< 3.35E-09	3.74E-07
++ Benzene	00071-43-2	7.27E-06	3.28E-06	6.65E-06	1.36E-05	3.53E-06	9.41E-07	8.47E-07	2.75E-06	2.87E-07	1.92E-06	8.29E-06
Benzyl Chloride	00100-44-7	< 1.19E-07	< 2.31E-07	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	< 2.36E-07	< 4.80E-08
++ b-Pinene	18172-67-3	< 1.69E-08	1.31E-07	2.92E-07	< 6.46E-08	1.13E-07	< 4.10E-08	3.37E-08	4.60E-08	< 1.77E-08	1.31E-07	3.40E-07
Bromodichloromethane	00075-27-4	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
Bromoform	00075-25-2	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08

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\+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary
Blowdown - Gas

	Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
	Bromomethane	00074-83-9	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
+	Butanal	00123-72-8	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	0.00E+00	8.12E-07	0.00E+00	8.86E-07	0.00E+00
+	Butene Isomer	25167-67-3	8.95E-07	0.00E+00	0.00E+00	0.00E+00	6.85E-07	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	6.00E-06
+	Butyl Acrylate	00141-32-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-06	0.00E+00
+	Butyl Propionate	00590-01-2	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	5.10E-06	2.03E-07	0.00E+00	1.77E-05	0.00E+00
+	Butyl Thiocyanate		0.00E+00	0.00E+00	0.00E+00	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Butyraldehyde	00123-72-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-07	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	C10H18 Cyclic Alkane		0.00E+00	0.00E+00	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06
+	C10H20 Alkene		0.00E+00	0.00E+00	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	6.00E-07
+	C11H22 Alkene		0.00E+00	0.00E+00	1.58E-06	0.00E+00	3.43E-07	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	2.10E-06
+	C11H24 Alkane		0.00E+00	0.00E+00	0.00E+00	4.11E-07	6.85E-07	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	C12H24 Alkene		0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	2.70E-06
+	C12H26 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	C8H12 Alkene		2.98E-07	0.00E+00	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-07
+	C9H12 Cyclic Alkene		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Carbon Disulfide	00075-15-0	3.88E-07	1.93E-06	5.15E-07	2.46E-04	5.14E-06	1.07E-05	6.63E-05	1.02E-04	9.54E-04	7.09E-07	1.53E-06
	Carbon Tetrachloride	00056-23-5	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	5.44E-08	4.67E-05	< 2.49E-07	2.78E-07	< 2.40E-08
+	Carbonyl Sulfide	00463-58-1	0.00E+00	0.00E+00	0.00E+00	4.56E-06	6.85E-07	0.00E+00	6.80E-07	1.42E-06	1.56E-04	0.00E+00	0.00E+00
	Chlorobenzene	00108-90-7	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	Chlorodibromomethane	00124-48-1	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	Chloroethane	00075-00-3	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	Chloroform	00067-66-3	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	9.55E-06	< 2.49E-07	2.66E-07	< 2.40E-08
	Chloromethane	00074-87-3	< 5.97E-08	< 1.15E-07	6.33E-08	< 9.12E-08	2.12E-07	9.27E-08	6.97E-08	< 1.62E-07	< 2.49E-07	4.14E-06	1.20E-07
	cis-1,2-Dichloroethene	00156-59-2	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
	cis-1,3-Dichloropropene	10061-01-5	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
++	cis-2-Butene	00590-18-1	< 3.48E-09	2.86E-08	< 1.15E-09	< 1.33E-08	1.94E-08	< 8.45E-09	< 9.92E-10	2.01E-08	< 3.64E-09	< 3.45E-09	< 3.50E-10
++	cis-2-Hexene	07688-21-3	< 3.48E-09	1.08E-07	< 1.15E-09	< 1.33E-08	1.72E-08	< 8.45E-09	< 9.92E-10	2.49E-08	< 3.64E-09	< 3.45E-09	< 3.50E-10
++	cis-2-Pentene	00627-20-3	2.26E-06	< 3.37E-09	8.32E-09	1.62E-06	5.80E-08	1.32E-07	9.03E-08	< 9.48E-10	7.64E-08	1.14E-05	< 3.50E-10
++	Cumene	00098-82-8	2.15E-07	1.76E-07	6.16E-07	1.14E-06	3.43E-06	4.67E-06	1.42E-08	2.93E-08	3.06E-07	2.95E-07	1.35E-06
++	Cyclohexane	00110-82-7	4.00E-07	1.13E-06	5.54E-07	1.28E-06	7.00E-08	1.01E-07	5.65E-08	< 9.48E-10	< 3.64E-09	2.93E-07	1.30E-07
+	Cyclohexanone	00108-94-1	0.00E+00	0.00E+00	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Cyclohexene	00110-83-8	1.79E-06	2.31E-06	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+	Cyclooctadiene		0.00E+00	0.00E+00	0.00E+00	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++	Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	1.20E-06	2.63E-07	1.24E-08	< 1.48E-08	8.47E-08	< 9.42E-09	8.95E-07	1.85E-08	3.10E-07	1.69E-04	< 3.90E-10
++	Cyclopentene	00142-29-0	5.07E-07	1.34E-06	8.53E-08	3.88E-07	7.38E-08	< 8.21E-09	1.93E-08	4.83E-07	1.34E-07	2.01E-07	6.12E-08

* - Extruded, all other compounds are unextruded
\+ Tentatively Identified Compound.
++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary

Blowdown - Gas

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
Dichlorodifluoromethane	00075-71-8	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
++ d-Limonene	05989-27-5	1.05E-07	8.18E-08	3.14E-07	< 6.46E-08	3.88E-07	< 4.10E-08	1.35E-07	3.68E-08	1.59E-06	1.10E-07	< 1.70E-09
Epichlorohydrin	00106-89-8	< 1.19E-07	< 2.31E-07	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	< 2.36E-07	< 4.80E-08
++ Ethane	00074-84-0	3.36E-08	3.79E-08	1.76E-08	< 1.43E-08	4.93E-07	4.71E-07	7.02E-09	6.73E-09	< 3.90E-09	1.13E-06	6.57E-09
+ Ethenyl Cyclohexene	25168-07-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-07	0.00E+00	0.00E+00	0.00E+00
++ Ethylacetylene	00107-00-6	< 3.36E-09	3.74E-08	< 1.11E-09	< 1.28E-08	1.23E-08	< 8.15E-09	< 9.56E-10	4.80E-08	< 3.51E-09	< 3.32E-09	< 3.38E-10
++ Ethylbenzene	00100-41-4	4.12E-07	3.82E-07	3.72E-07	4.03E-07	3.59E-07	1.30E-07	7.04E-08	2.13E-07	8.60E-09	1.50E-07	3.31E-07
Ethylbenzene	00100-41-4	1.43E-07	1.18E-07	1.19E-07	8.67E-08	9.94E-08	9.85E-08	< 6.80E-08	< 1.62E-07	1.28E-07	< 1.18E-07	9.60E-08
++ Ethylene	00074-85-1	1.69E-07	1.85E-07	6.01E-08	< 1.33E-08	6.20E-08	< 8.45E-09	2.58E-08	1.78E-08	< 3.64E-09	1.64E-07	3.33E-08
Hexachlorobutadiene	00087-68-3	< 1.19E-07	< 2.31E-07	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	< 2.36E-07	< 4.80E-08
+ Isobutanal	00078-84-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-07	0.00E+00
++ Isobutane	00075-28-5	6.31E-07	< 3.49E-09	8.61E-08	< 1.38E-08	8.70E-09	< 8.76E-09	9.86E-09	< 9.82E-10	< 3.77E-09	6.43E-07	7.44E-08
+ Isobutyl Thiocyanate		0.00E+00	0.00E+00	0.00E+00	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ Isobutylene + 1-Butene	00115-11-7/00106-98-9	< 3.48E-09	2.36E-06	3.46E-07	4.79E-06	1.20E-06	1.86E-07	7.24E-07	7.11E-07	< 3.64E-09	3.62E-05	1.03E-05
+ Isobutylisocyanate		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ Isooctane	00540-84-1	< 3.54E-09	1.06E-07	3.76E-08	< 1.35E-08	< 2.03E-10	< 8.60E-09	6.46E-08	2.77E-08	< 3.70E-09	2.28E-06	3.56E-08
++ Isopentane	00078-78-4	< 3.58E-09	3.81E-06	2.07E-07	6.85E-07	1.54E-06	< 8.70E-09	1.02E-06	2.07E-07	< 3.74E-09	< 3.55E-09	2.88E-07
++ Isoprene	00078-79-5	1.01E-08	2.45E-08	< 1.12E-09	< 1.29E-08	< 1.94E-10	< 8.21E-09	< 9.63E-10	< 9.21E-10	< 3.53E-09	6.86E-08	< 3.40E-10
+ m- & p-Ethyl Toluene	00620-14-4/00622-96-8	8.95E-07	0.00E+00	7.92E-07	0.00E+00	0.00E+00	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Methacrolein	00078-85-3	0.00E+00	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Methyl Cyclohexane	00108-87-2	0.00E+00	0.00E+00	0.00E+00	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Methyl Cyclopentane	00096-37-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
+ Methyl Isothiocyanate	00556-61-6	0.00E+00	0.00E+00	0.00E+00	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ Methylacetylene	00074-99-7	< 3.23E-09	< 3.13E-09	< 1.07E-09	< 1.24E-08	< 1.86E-10	< 7.85E-09	< 9.21E-10	< 8.80E-10	< 3.37E-09	< 3.20E-09	< 3.25E-10
++ Methylcyclohexane	00108-87-2	5.92E-07	2.36E-07	2.54E-07	6.92E-07	1.16E-07	< 8.45E-09	5.95E-08	4.03E-08	5.07E-07	6.21E-08	1.75E-07
++ Methylcyclopentane	00096-37-7	8.01E-09	3.87E-07	< 1.15E-09	7.45E-07	1.46E-07	1.03E-06	2.08E-08	1.78E-08	< 3.64E-09	5.34E-08	2.28E-08
Methylene Chloride	00075-09-2	5.97E-06	6.64E-05	6.33E-08	6.84E-07	1.03E-07	2.03E-07	3.74E-07	1.06E-05	< 2.49E-07	3.25E-05	1.08E-05
+ Methylheptene Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-07	0.00E+00
++ m-Ethyltoluene	00620-14-4	7.13E-07	4.49E-07	1.19E-06	< 1.27E-08	3.05E-07	< 8.05E-09	1.32E-08	1.47E-07	7.27E-07	1.08E-07	4.67E-07
++ m-Xylene + p-Xylene	00108-38-3/00106-42-3	1.60E-05	2.87E-05	1.09E-06	4.53E-06	1.72E-06	5.44E-07	2.53E-07	6.50E-07	1.41E-06	3.26E-07	6.46E-07
++ n-Butane	00106-97-8	< 3.61E-09	1.15E-08	1.01E-07	< 1.38E-08	9.53E-08	< 8.76E-09	1.13E-07	2.58E-07	< 3.77E-09	3.04E-06	1.34E-07
++ n-Decane	00124-18-5	3.35E-07	1.03E-06	3.75E-07	< 6.75E-08	3.24E-07	< 4.29E-08	2.41E-08	1.56E-07	1.01E-06	1.10E-07	3.73E-07
++ n-Heptane	00142-82-5	1.44E-07	1.72E-07	1.63E-07	8.69E-07	1.71E-07	< 8.63E-09	8.10E-08	1.33E-07	0.00E+00	5.28E-06	8.04E-08
++ n-Hexane	00110-54-3	6.06E-07	5.52E-07	1.39E-07	1.69E-06	1.49E-07	9.69E-07	6.30E-08	< 9.71E-10	8.38E-08	3.88E-07	6.60E-08

* - Extruded, all other compounds are unextruded

+ Tentatively Identified Compound.

++ Ozone Precursor

TRC

Table D.1 - 6 Autoclave Speciated Volatiles Summary

Blowdown - Gas

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
++ n-Nonane	00111-84-2	1.63E-07	8.04E-07	1.01E-07	< 1.35E-08	1.73E-07	< 8.59E-09	2.12E-08	7.22E-08	8.31E-08	2.10E-07	7.47E-08
++ n-Octane	00111-65-9	1.75E-07	2.05E-07	1.55E-07	< 1.35E-08	1.79E-07	< 8.60E-09	8.08E-08	2.53E-07	0.00E+00	< 3.51E-09	8.73E-08
++ n-Pentane	00109-66-0	3.76E-08	1.65E-07	1.54E-07	< 1.37E-08	8.64E-08	< 8.70E-09	1.33E-08	7.19E-08	< 3.74E-09	7.98E-07	3.24E-08
++ n-Propylbenzene	00103-65-1	2.15E-07	2.89E-07	5.28E-07	7.10E-07	1.12E-07	< 8.05E-09	2.17E-08	1.11E-07	6.13E-07	1.49E-07	1.53E-07
+ n-Undecane	00112-21-4	0.00E+00	5.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ o-Ethyltoluene	00611-14-3	3.81E-06	2.41E-07	1.14E-05	7.35E-07	1.52E-05	< 4.02E-08	2.17E-07	8.12E-08	1.40E-06	7.71E-07	1.83E-05
++ o-Xylene	00095-47-6	5.43E-07	2.07E-06	5.03E-07	1.31E-06	7.00E-07	< 8.00E-09	6.66E-06	2.02E-07	3.27E-08	5.22E-05	2.65E-07
++ p-Cymene	00099-87-6	2.50E-07	5.16E-07	1.02E-06	1.99E-06	5.74E-07	< 4.04E-08	1.33E-07	8.39E-08	1.62E-06	1.98E-08	9.05E-07
++ p-Ethyltoluene	00622-96-8	4.81E-07	1.92E-07	6.60E-07	< 1.27E-08	1.10E-07	< 8.05E-09	7.46E-09	9.70E-08	3.81E-07	6.40E-08	3.50E-07
++ Propane	00074-98-6	3.10E-08	6.71E-08	5.08E-08	< 1.39E-08	4.82E-08	< 8.86E-09	4.05E-08	1.49E-08	5.33E-09	1.35E-06	1.41E-08
+ Propyl Butyrate	00105-66-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
++ Propylene	00115-07-1	3.83E-08	1.55E-07	5.08E-08	< 1.33E-08	1.52E-07	< 8.45E-09	2.48E-07	2.73E-08	1.28E-07	3.79E-07	2.80E-08
Propylene Oxide	00075-56-9	< 1.19E-07	< 2.31E-07	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	< 1.36E-07	< 3.25E-07	< 4.99E-07	< 2.36E-07	< 4.80E-08
++ Styrene	00100-42-5	4.20E-07	1.72E-07	1.78E-06	< 1.24E-08	7.98E-07	< 7.85E-09	2.58E-08	5.28E-08	4.72E-08	< 3.20E-09	6.18E-07
+ t-Butanol	00075-65-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-07	0.00E+00	0.00E+00	2.95E-06	0.00E+00
t-Butyl Methyl Ether	01634-04-4	< 1.19E-07	8.95E-08	< 3.17E-08	< 1.82E-07	< 2.74E-08	< 2.32E-08	4.93E-07	< 3.25E-07	< 4.99E-07	7.09E-05	< 4.80E-08
Tetrachloroethene	00127-18-4	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	1.20E-06	< 2.49E-07	1.06E-07	< 2.40E-08
++ Toluene	00108-88-3	1.80E-06	1.90E-06	7.80E-07	1.15E-06	5.63E-07	3.65E-07	2.33E-07	2.00E-06	3.62E-06	5.66E-07	3.78E-07
trans-1,2-Dichloroethene	00156-60-5	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
trans-1,2-Dichloropropene	10061-02-6	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
++ trans-2-Butene	00624-64-6	< 3.48E-09	4.21E-08	1.57E-08	< 1.33E-08	2.80E-08	< 8.45E-09	< 9.92E-10	5.21E-08	< 3.64E-09	1.28E-07	5.60E-09
++ trans-2-Hexene	04050-45-7	< 3.48E-09	6.57E-07	< 1.15E-09	< 1.33E-08	3.60E-08	< 8.45E-09	1.09E-08	2.96E-06	4.00E-08	2.41E-07	9.80E-09
++ trans-2-Pentene	00646-04-8	< 3.48E-09	< 3.37E-09	1.15E-08	< 1.33E-08	1.26E-07	< 8.45E-09	< 9.92E-10	< 9.48E-10	< 3.64E-09	1.19E-07	3.85E-08
Trichloroethene	00079-01-6	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
Trichlorofluoromethane	00075-69-4	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
Trichlortrifluoroethane	00076-13-1	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
+ Trimethyl Cyclopentane Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-07	0.00E+00	0.00E+00	0.00E+00
+ Trimethylcyclohexane Isomer		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-07	0.00E+00	0.00E+00	6.50E-06	0.00E+00
+ Unknown		5.97E-07	0.00E+00	3.56E-07	4.56E-07	3.43E-07	0.00E+00	1.70E-07	8.12E-07	0.00E+00	1.48E-06	0.00E+00
Vinyl Acetate	00108-05-4	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
Vinyl Chloride	00075-01-4	< 5.97E-08	< 1.15E-07	< 1.58E-08	< 9.12E-08	< 1.37E-08	< 1.16E-08	< 6.80E-08	< 1.62E-07	< 2.49E-07	< 1.18E-07	< 2.40E-08
TOTAL Detected		8.35E-05	1.85E-04	6.49E-05	3.26E-04	6.08E-05	3.61E-05	1.02E-04	1.93E-04	1.66E-03	5.27E-04	9.23E-05
TOTAL with non-detects		< 8.71E-05	< 1.91E-04	< 6.59E-05	< 3.32E-04	< 6.16E-05	< 3.74E-05	< 1.06E-04	< 2.02E-04	< 1.68E-03	< 5.33E-04	< 9.37E-05

* - Extruded, all other compounds are unextruded

\+ Tentatively Identified Compound.

++ Ozone Precursor

TRC

Table D.1 - 7 Autoclave Speciated Volatiles Summary
Blowdown - Liquid

Compound	CAS #	Cmpd.#4 µg/L	Cmpd.#5 µg/L	Cmpd.#6 µg/L	Cmpd.#8 µg/L	Cmpd.#9* µg/L	Cmpd.#9 µg/L	Cmpd.#11 µg/L	Cmpd.#15 µg/L	Cmpd.#18 µg/L	Cmpd.#21 µg/L	Cmpd.#22 µg/L
Chloromethane	74-87-3	< 8.04	< 10.09	< 6.18	< 9.56	21.8	< 8.26	< 5.89	< 9.41	< 8.97	< 8.89	< 6.36
Vinyl Chloride	75-01-4	< 7.39	< 9.58	< 6.07	< 9.08	< 7.31	< 8.12	< 5.95	< 9.5	< 8.25	< 8.98	< 6.24
1,3-Butadiene	106-99-0	< 5.49	< 6.79	< 3.83	< 6.44	< 4.62	< 5.13	< 4.56	< 5.31	< 6.12	< 6.88	< 3.94
Bromomethane	74-83-9	< 11.63	< 15.19	< 7.32	< 14.39	< 8.81	< 9.78	< 8.86	< 12.54	< 12.98	< 13.37	< 7.52
Chloroethane	75-003	< 9.89	< 12.59	< 8.22	< 11.93	< 9.89	< 10.99	< 8.1	< 12.31	< 11.04	< 12.22	< 8.45
Vinyl bromide	593-60-2	< 7.99	< 11.95	< 5.53	< 11.33	< 6.65	< 7.39	< 6.41	< 8.85	< 8.92	< 9.68	< 5.68
Trichlorofluoromethane	75-69-4	< 3.27	< 4.17	< 2.45	< 3.95	< 2.95	< 3.28	< 2.84	< 3.56	< 3.65	< 4.29	< 2.52
1,1-Dichloroethene	75-35-4	< 7.67	< 9.68	< 5.03	< 9.18	< 6.05	< 6.72	< 5.7	< 7.32	< 8.57	< 8.6	< 5.17
Iodomethane	74-88-4	< 2.33	< 3.16	< 1.66	< 2.99	< 2	< 2.22	< 2.66	< 2.9	< 2.6	< 4.01	< 1.7
Carbon disulfide	75-15-0	< 1.81	71.94	< 1.37	122	175.91	49.92	9550.12	22557.77	< 2.03	< 2.51	< 1.41
Acetone	67-64-1	48933.63	118520	1178.68	2962.76	23008.93	23412.35	29867.24	2831.97	8175.99	973721.29	3961.52
Allyl chloride	107-05-1	< 10.58	< 11.5	< 7.98	< 10.9	< 9.6	< 10.66	< 8.37	< 11.96	< 11.81	< 12.63	< 8.2
Methylene chloride	75-09-2	62.47	21019.33	110.87	295.02	89.14	121.09	123.9	2652.18	64.94	52723.17	274.86
trans-1,2-Dichloroethene	156-60-5	< 7.75	< 8.67	< 5.3	< 8.21	< 6.38	< 7.08	< 5.39	< 7.91	< 8.65	< 8.14	< 5.45
tert-Butyl methyl ether	1634-04-4	< 2.63	81.3	8.13	12.27	< 2.48	363.54	602.34	< 3.28	31.73	355733.94	20.17
Acrylonitrile	107-13-1	< 28.06	< 108.32	< 21	< 102.63	< 25.28	< 28.08	< 19.05	< 32.26	< 31.32	< 28.75	< 21.6
n-Hexane	110-54-3	< 3.29	< 3.76	< 2.88	< 3.56	< 3.46	< 3.84	< 2.37	< 3.95	< 3.67	< 3.57	< 2.96
1,1-Dichloroethane	75-34-3	< 3.45	< 3.5	< 2.74	< 3.31	< 3.3	< 3.66	< 2.38	< 3.85	< 3.85	< 3.59	< 2.82
1,2-Epoxybutane	106-88-7	< 25.04	< 18.68	< 14.71	< 17.69	< 17.7	< 19.66	< 20.06	< 49.05	< 27.94	< 30.29	< 15.12
cis-1,2-Dichloroethene	156-59-2	< 9.81	< 9.76	< 6.26	< 9.25	< 7.53	< 8.37	< 6.04	< 8.6	< 10.95	< 9.11	< 6.44
Chloroform	67-66-3	< 4.09	< 3.93	< 2.76	< 3.72	< 3.33	< 3.7	< 2.52	9756.5	< 4.56	52.49	< 2.84
1,2-Dichloroethane	107-06-2	< 4.58	< 4.73	< 3.68	< 4.48	< 4.43	< 4.92	< 3.6	< 5.21	< 5.11	< 5.43	< 3.78
Isooctane	540-84-1	< 0.96	< 1.03	< 0.85	< 0.97	< 1.02	< 1.13	< 0.72	< 1.09	< 1.07	< 1.08	< 0.87
Vinyl acetate	108-05-4	< 2.74	< 3.8	< 2.38	< 3.5	< 2.4	< 2.5	< 3.61	< 4.36	< 2.9	< 4.38	< 2.4
2-Butanone	78-93-3	4966.81	3311.9	525	1695	4533.12	3497.39	1203.48	1939.69	1399.62	55990.58	2001.37
1,1,1-Trichloroethane	71-55-6	< 3.48	< 3.75	< 3.22	< 3.45	< 3.26	< 3.39	< 3.65	< 3.74	< 3.69	< 4.42	< 3.25
Carbon tetrachloride	56-23-5	< 3.08	< 3.72	< 3.04	< 3.42	< 3.08	< 3.2	< 3.71	5503.46	< 3.26	< 4.51	< 3.07
Benzene	71-43-2	1254.79	390.68	753.28	115.61	273.07	132.96	151.76	375.71	< 1.89	111.85	1304.64
Trichloroethene	79-01-6	< 4.46	17.04	< 3.92	< 4.7	< 3.96	< 4.12	< 4.59	< 4.87	< 4.73	< 5.57	< 3.95
1,2-Dichloropropane	78-87-5	< 5.24	< 5.27	< 5.32	< 4.85	< 5.38	< 5.6	< 4.98	< 6.18	< 5.55	< 6.04	< 5.36
Ethyl acrylate	140-88-5	< 4.67	< 3.79	< 4.72	< 3.49	< 4.77	< 4.97	< 4.83	< 6.17	< 4.95	< 5.86	< 4.76
Methyl methacrylate	80-62-6	< 13.39	< 10.73	< 12.73	< 9.89	< 12.86	< 13.39	< 13.15	< 16.21	< 14.19	< 15.96	< 12.82
Bromodichloromethane	75-27-4	< 4.5	< 4.41	< 3.98	< 4.06	< 4.02	< 4.19	< 3.93	< 4.32	< 4.77	< 4.76	< 4.01
cis-1,3-Dichloropropene	10061-01-5	< 3.45	< 3.34	< 3.23	< 3.08	< 3.26	< 3.39	< 3.29	< 3.72	< 3.66	< 3.99	< 3.25

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 7 Autoclave Speciated Volatiles Summary
Blowdown - Liquid

Compound	CAS #	Cmpd.#4 µg/L	Cmpd.#5 µg/L	Cmpd.#6 µg/L	Cmpd.#8 µg/L	Cmpd.#9* µg/L	Cmpd.#9 µg/L	Cmpd.#11 µg/L	Cmpd.#15 µg/L	Cmpd.#18 µg/L	Cmpd.#21 µg/L	Cmpd.#22 µg/L
trans-1,3-Dichloropropene	10061-02-6	< 4.33	< 4.08	< 4.04	< 3.76	< 4.08	< 4.25	< 4.17	< 4.66	< 4.59	< 5.06	< 4.07
1,1,2-Trichloroethane	79-00-5	< 8.85	< 8.15	< 7.42	< 7.5	< 7.49	< 7.8	< 7.76	< 8.26	< 9.38	< 9.41	< 7.47
Dibromochloromethane	124-48-1	< 4.36	< 4.89	< 4.03	< 4.5	< 4.07	< 4.24	< 4.79	< 5.14	< 4.62	< 5.81	< 4.06
Ethylene dibromide	106-93-4	< 6.08	< 5.97	< 5.22	< 5.5	< 5.27	< 5.49	< 6.8	< 6.8	< 6.44	< 8.25	< 5.26
Bromoform	75-25-2	< 7.36	< 7.66	< 7.08	< 7.06	< 7.15	< 7.44	< 8.64	< 9.46	< 7.8	< 10.48	< 7.13
4-Methyl-2-pentanone	108-10-1	411249.98	< 5.21	169064.92	< 5.03	22575.75	1131.69	< 5.62	< 6.55	126289.57	< 6.42	179901.11
Toluene	108-88-3	< 3.61	415.34	155.56	136.5	95.72	100.78	61.41	303.95	873.92	50.15	114.47
Tetrachloroethene	127-18-4	16.43	< 5.53	< 4.91	< 5.34	12.81	< 5.03	< 5.18	238.56	24.09	< 5.91	< 4.86
2-Hexanone	591-78-6	176.39	< 7.62	200.35	< 7.36	345.09	198.6	< 8.2	< 9.47	< 10.29	< 9.36	< 8.85
Chlorobenzene	108-90-7	< 2.05	< 2.27	< 1.96	< 2.19	< 1.94	< 2	< 2.15	< 2.25	< 2.14	< 2.46	< 1.94
Ethylbenzene	100-41-4	119.73	103.46	63.22	20.31	27.71	23.01	13.67	25.51	37.64	< 3.52	101.22
m-/p-Xylene	108-38-3/106-42-3	8062.58	14150.13	161.98	72.05	63.25	39.21	49.72	67.45	70.4	16.23	133.96
o-Xylene	95-47-6	244.45	176.98	124.38	31.69	37.86	28.27	23.32	39.82	29.05	< 3.61	90.08
Styrene	100-42-5	34.12	60.6	879.65	< 2.2	222.52	155.86	10.87	13.15	18	< 2.3	427.54
1,1,2,2-Tetrachloroethane	79-34-5	< 8.36	< 6.8	< 7.57	< 6.56	< 7.51	< 7.74	< 6.92	< 7.88	< 8.73	< 7.9	< 7.49
Cumene	98-82-8	54	87.63	50.76	4.53	308.56	615.96	< 1.11	6.03	127.45	< 1.26	118.85
1,3-Cyclooctadiene	1700-10-3	< 3.57	< 3.31	< 3.34	84.13	< 3.31	13.56	< 3.4	< 3.36	< 3.73	< 3.88	< 3.3
1,5-Cyclooctadiene	111-78-4	< 2.73	< 2.69	< 2.76	< 2.6	< 2.74	< 2.82	< 3.08	< 2.88	< 2.86	< 3.51	< 2.73
3-Methyl styrene	100-80-1	26.02	< 1.98	< 1.61	< 1.91	5.04	< 1.65	< 2.15	14.43	< 1.85	< 2.45	< 1.59
4-Methyl styrene	622-97-9	19.9	< 1.86	< 1.56	< 1.79	< 1.55	< 1.59	< 2.07	< 1.88	< 1.86	< 2.36	< 1.54
N-Butyl acetate	123-86-4	< 9.07	< 7.34	86.29	< 6.76	< 8.66	3075.88	2835.99	< 11.76	< 9.61	37395.21	1282.52
S-Butyl acetate	105-46-4	< 11.75	< 8.77	< 12.35	< 8.08	< 12.47	< 12.99	< 13.22	< 14.92	< 12.45	< 16.03	< 12.44
T-Butyl acetate	540-88-5	< 6.85	< 6.34	< 7.22	< 5.84	< 7.29	< 7.59	< 8	< 11.15	< 7.26	75448.5	< 7.27
Camphene	79-92-5	< 3.06	< 3.11	< 2.83	< 3	< 2.81	< 2.89	< 3.01	< 2.6	< 3.2	< 3.43	< 2.8
4-Chlorostyrene	1073-67-2	< 2.33	< 2.43	< 2.04	< 2.35	< 2.03	< 2.09	731.34	< 2.52	< 2.43	< 3.16	< 2.02
Cyclohexane	110-82-7	< 2.95	20.98	14.23	< 2.94	< 3.06	< 3.4	< 2.16	< 3.38	< 3.29	< 3.26	< 2.61
Cyclohexene	110-83-8	166.47	144.61	115.55	< 1.93	< 1.96	< 2.18	< 1.59	< 2.34	< 2.21	< 2.4	< 1.68
Heptane	142-82-5	< 4.72	< 5.02	< 4.15	< 4.75	< 5	< 5.55	< 3.79	< 5.72	< 5.27	< 5.72	< 4.27
Nonane	111-84-2	55.76	210.39	41.76	< 1.97	< 2.08	< 2.15	< 2.56	< 2.57	< 2.04	< 2.92	55.49
Octane	111-65-9	< 4.08	< 4.41	< 4.55	< 4.06	< 4.59	< 4.78	< 4.95	< 5.47	< 4.32	< 6	< 4.58
Chloroprene	126-99-8	< 3.98	< 3.75	< 2.86	< 3.55	< 3.44	< 3.82	560.86	< 3.96	< 4.44	< 4.04	< 2.94
Tetrahydrofuran	109-99-9	< 27.67	< 24.79	< 18.95	< 23.49	< 22.81	< 25.34	< 21.71	< 29.21	< 30.88	< 32.78	< 19.49
1,2,4-Trimethylbenzene	95-63-6	3310.55	1160.41	2168.71	78.62	133.72	116.12	25.15	130.69	< 1.7	< 1.8	915.46
TOTAL Detected		478754.1	159942.7	175703.3	5630.5	51930.0	33076.2	45811.2	46456.9	137142.4	1551243.4	190703.3
TOTAL with non-detects		< 479092.6	< 160372.6	< 175968.1	< 6046.5	< 52227.1	< 33396.8	< 46111.4	< 46869.5	< 137527.4	< 1551656.4	< 190985.6

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 7 Autoclave Speciated Volatiles Summary
Blowdown - Liquid

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
Chloromethane	74-87-3	< 3.78E-07	< 6.07E-07	< 2.72E-07	< 6.57E-07	1.06E-06	< 3.69E-07	< 3.33E-07	< 7.03E-07	< 4.40E-07	< 5.59E-07	< 2.81E-07
Vinyl Chloride	75-01-4	< 3.48E-07	< 5.76E-07	< 2.67E-07	< 6.24E-07	< 3.56E-07	< 3.63E-07	< 3.37E-07	< 7.09E-07	< 4.05E-07	< 5.65E-07	< 2.76E-07
1,3-Butadiene	106-99-0	< 2.58E-07	< 4.08E-07	< 1.68E-07	< 4.43E-07	< 2.25E-07	< 2.29E-07	< 2.58E-07	< 3.97E-07	< 3.00E-07	< 4.33E-07	< 1.74E-07
Bromomethane	74-83-9	< 5.47E-07	< 9.13E-07	< 3.22E-07	< 9.89E-07	< 4.29E-07	< 4.37E-07	< 5.01E-07	< 9.36E-07	< 6.37E-07	< 8.41E-07	< 3.32E-07
Chloroethane	75-003	< 4.66E-07	< 7.57E-07	< 3.61E-07	< 8.20E-07	< 4.81E-07	< 4.91E-07	< 4.58E-07	< 9.19E-07	< 5.42E-07	< 7.69E-07	< 3.73E-07
Vinyl bromide	593-60-2	< 3.76E-07	< 7.18E-07	< 2.43E-07	< 7.79E-07	< 3.24E-07	< 3.30E-07	< 3.63E-07	< 6.61E-07	< 4.38E-07	< 6.09E-07	< 2.51E-07
Trichlorofluoromethane	75-69-4	< 1.54E-07	< 2.51E-07	< 1.08E-07	< 2.71E-07	< 1.44E-07	< 1.47E-07	< 1.61E-07	< 2.66E-07	< 1.79E-07	< 2.70E-07	< 1.11E-07
1,1-Dichloroethene	75-35-4	< 3.61E-07	< 5.82E-07	< 2.21E-07	< 6.31E-07	< 2.95E-07	< 3.00E-07	< 3.23E-07	< 5.47E-07	< 4.21E-07	< 5.41E-07	< 2.28E-07
Iodomethane	74-88-4	< 1.10E-07	< 1.90E-07	< 7.29E-08	< 2.06E-07	< 9.74E-08	< 9.92E-08	< 1.51E-07	< 2.17E-07	< 1.28E-07	< 2.52E-07	< 7.51E-08
Carbon disulfide	75-15-0	< 8.52E-08	4.33E-06	< 6.02E-08	8.39E-06	8.56E-06	2.23E-06	5.40E-04	1.68E-03	< 9.97E-08	< 1.58E-07	< 6.23E-08
Acetone	67-64-1	2.30E-03	7.13E-03	5.18E-05	2.04E-04	1.12E-03	1.05E-03	1.69E-03	2.11E-04	4.01E-04	6.13E-02	1.75E-04
Allyl chloride	107-05-1	< 4.98E-07	< 6.91E-07	< 3.51E-07	< 7.49E-07	< 4.67E-07	< 4.76E-07	< 4.74E-07	< 8.93E-07	< 5.80E-07	< 7.95E-07	< 3.62E-07
Methylene chloride	75-09-2	2.94E-06	1.26E-03	4.87E-06	2.03E-05	4.34E-06	5.41E-06	7.01E-06	1.98E-04	3.19E-06	3.32E-03	1.21E-05
trans-1,2-Dichloroethene	156-60-5	< 3.65E-07	< 5.21E-07	< 2.33E-07	< 5.64E-07	< 3.11E-07	< 3.16E-07	< 3.05E-07	< 5.91E-07	< 4.25E-07	< 5.12E-07	< 2.41E-07
tert-Butyl methyl ether	1634-04-4	< 1.24E-07	4.89E-06	3.57E-07	8.43E-07	< 1.21E-07	1.62E-05	3.41E-05	< 2.45E-07	1.56E-06	2.24E-02	8.91E-07
Acrylonitrile	107-13-1	< 1.32E-06	< 6.51E-06	< 9.23E-07	< 7.05E-06	< 1.23E-06	< 1.25E-06	< 1.08E-06	< 2.41E-06	< 1.54E-06	< 1.81E-06	< 9.54E-07
n-Hexane	110-54-3	< 1.55E-07	< 2.26E-07	< 1.27E-07	< 2.45E-07	< 1.68E-07	< 1.72E-07	< 1.34E-07	< 2.95E-07	< 1.80E-07	< 2.25E-07	< 1.31E-07
1,1-Dichloroethane	75-34-3	< 1.62E-07	< 2.10E-07	< 1.20E-07	< 2.28E-07	< 1.61E-07	< 1.63E-07	< 1.35E-07	< 2.87E-07	< 1.89E-07	< 2.26E-07	< 1.25E-07
1,2-Epoxybutane	106-88-7	< 1.18E-06	< 1.12E-06	< 6.46E-07	< 1.22E-06	< 8.62E-07	< 8.78E-07	< 1.14E-06	< 3.66E-06	< 1.37E-06	< 1.91E-06	< 6.68E-07
cis-1,2-Dichloroethene	156-59-2	< 4.62E-07	< 5.87E-07	< 2.75E-07	< 6.36E-07	< 3.67E-07	< 3.74E-07	< 3.42E-07	< 6.42E-07	< 5.38E-07	< 5.73E-07	< 2.84E-07
Chloroform	67-66-3	< 1.93E-07	< 2.36E-07	< 1.21E-07	< 2.56E-07	< 1.62E-07	< 1.65E-07	< 1.43E-07	7.29E-04	< 2.24E-07	3.30E-06	< 1.25E-07
1,2-Dichloroethane	107-06-2	< 2.16E-07	< 2.84E-07	< 1.62E-07	< 3.08E-07	< 2.16E-07	< 2.20E-07	< 2.04E-07	< 3.89E-07	< 2.51E-07	< 3.42E-07	< 1.67E-07
Isooctane	540-84-1	< 4.52E-08	< 6.19E-08	< 3.73E-08	< 6.67E-08	< 4.97E-08	< 5.05E-08	< 4.07E-08	< 8.14E-08	< 5.25E-08	< 6.79E-08	< 3.84E-08
Vinyl acetate	108-05-4	< 1.29E-07	< 2.28E-07	< 1.05E-07	< 2.41E-07	< 1.17E-07	< 1.12E-07	< 2.04E-07	< 3.26E-07	< 1.42E-07	< 2.76E-07	< 1.06E-07
2-Butanone	78-93-3	2.34E-04	1.99E-04	2.31E-05	1.16E-04	2.21E-04	1.56E-04	6.81E-05	1.45E-04	6.87E-05	3.52E-03	8.84E-05
1,1,1-Trichloroethane	71-55-6	< 1.64E-07	< 2.25E-07	< 1.41E-07	< 2.37E-07	< 1.59E-07	< 1.51E-07	< 2.07E-07	< 2.79E-07	< 1.81E-07	< 2.78E-07	< 1.44E-07
Carbon tetrachloride	56-23-5	< 1.45E-07	< 2.24E-07	< 1.34E-07	< 2.35E-07	< 1.50E-07	< 1.43E-07	< 2.10E-07	4.11E-04	< 1.60E-07	< 2.84E-07	< 1.36E-07
Benzene	71-43-2	5.91E-05	2.35E-05	3.31E-05	7.95E-06	1.33E-05	5.94E-06	8.59E-06	2.81E-05	< 9.28E-08	7.04E-06	5.76E-05
Trichloroethene	79-01-6	< 2.10E-07	1.02E-06	< 1.72E-07	< 3.23E-07	< 1.93E-07	< 1.84E-07	< 2.60E-07	< 3.64E-07	< 2.32E-07	< 3.50E-07	< 1.74E-07
1,2-Dichloropropane	78-87-5	< 2.47E-07	< 3.17E-07	< 2.34E-07	< 3.33E-07	< 2.62E-07	< 2.50E-07	< 2.82E-07	< 4.61E-07	< 2.72E-07	< 3.80E-07	< 2.37E-07
Ethyl acrylate	140-88-5	< 2.20E-07	< 2.28E-07	< 2.07E-07	< 2.40E-07	< 2.32E-07	< 2.22E-07	< 2.73E-07	< 4.61E-07	< 2.43E-07	< 3.69E-07	< 2.10E-07
Methyl methacrylate	80-62-6	< 6.30E-07	< 6.45E-07	< 5.59E-07	< 6.80E-07	< 6.26E-07	< 5.98E-07	< 7.44E-07	< 1.21E-06	< 6.97E-07	< 1.00E-06	< 5.66E-07
Bromodichloromethane	75-27-4	< 2.12E-07	< 2.65E-07	< 1.75E-07	< 2.79E-07	< 1.96E-07	< 1.87E-07	< 2.22E-07	< 3.23E-07	< 2.34E-07	< 2.99E-07	< 1.77E-07
cis-1,3-Dichloropropene	10061-01-5	< 1.62E-07	< 2.01E-07	< 1.42E-07	< 2.12E-07	< 1.59E-07	< 1.51E-07	< 1.86E-07	< 2.78E-07	< 1.80E-07	< 2.51E-07	< 1.44E-07

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 7 Autoclave Speciated Volatiles Summary
Blowdown - Liquid

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
trans-1,3-Dichloropropene	10061-02-6	< 2.04E-07	< 2.45E-07	< 1.77E-07	< 2.58E-07	< 1.99E-07	< 1.90E-07	< 2.36E-07	< 3.48E-07	< 2.25E-07	< 3.18E-07	< 1.80E-07
1,1,2-Trichloroethane	79-00-5	< 4.17E-07	< 4.90E-07	< 3.26E-07	< 5.15E-07	< 3.65E-07	< 3.48E-07	< 4.39E-07	< 6.17E-07	< 4.61E-07	< 5.92E-07	< 3.30E-07
Dibromochloromethane	124-48-1	< 2.05E-07	< 2.94E-07	< 1.77E-07	< 3.09E-07	< 1.98E-07	< 1.89E-07	< 2.71E-07	< 3.84E-07	< 2.27E-07	< 3.66E-07	< 1.79E-07
Ethylene dibromide	106-93-4	< 2.86E-07	< 3.59E-07	< 2.29E-07	< 3.78E-07	< 2.57E-07	< 2.45E-07	< 3.85E-07	< 5.08E-07	< 3.16E-07	< 5.19E-07	< 2.32E-07
Bromoform	75-25-2	< 3.46E-07	< 4.61E-07	< 3.11E-07	< 4.85E-07	< 3.48E-07	< 3.32E-07	< 4.89E-07	< 7.06E-07	< 3.83E-07	< 6.59E-07	< 3.15E-07
4-Methyl-2-pentanone	108-10-1	1.94E-02	< 3.13E-07	7.43E-03	< 3.46E-07	1.10E-03	5.06E-05	< 3.18E-07	< 4.89E-07	6.20E-03	< 4.04E-07	7.95E-03
Toluene	108-88-3	< 1.70E-07	2.50E-05	6.83E-06	9.38E-06	4.66E-06	4.50E-06	3.47E-06	2.27E-05	4.29E-05	3.16E-06	5.06E-06
Tetrachloroethene	127-18-4	7.73E-07	< 3.32E-07	< 2.16E-07	< 3.67E-07	6.24E-07	< 2.25E-07	< 2.93E-07	1.78E-05	1.18E-06	< 3.72E-07	< 2.15E-07
2-Hexanone	591-78-6	8.30E-06	< 4.58E-07	8.80E-06	< 5.06E-07	1.68E-05	8.87E-06	< 4.64E-07	< 7.07E-07	< 5.05E-07	< 5.89E-07	< 3.91E-07
Chlorobenzene	108-90-7	< 9.65E-08	< 1.36E-07	< 8.61E-08	< 1.51E-07	< 9.44E-08	< 8.93E-08	< 1.22E-07	< 1.68E-07	< 1.05E-07	< 1.55E-07	< 8.57E-08
Ethylbenzene	100-41-4	5.64E-06	6.22E-06	2.78E-06	1.40E-06	1.35E-06	1.03E-06	7.74E-07	1.90E-06	1.85E-06	< 2.21E-07	4.47E-06
m-/p-Xylene	108-38-3/106-42-3	3.80E-04	8.51E-04	7.12E-06	4.95E-06	3.08E-06	1.75E-06	2.81E-06	5.04E-06	3.46E-06	1.02E-06	5.92E-06
o-Xylene	95-47-6	1.15E-05	1.06E-05	5.46E-06	2.18E-06	1.84E-06	1.26E-06	1.32E-06	2.97E-06	1.43E-06	< 2.27E-07	3.98E-06
Styrene	100-42-5	1.61E-06	3.64E-06	3.86E-05	< 1.51E-07	1.08E-05	6.96E-06	6.15E-07	9.82E-07	8.84E-07	< 1.45E-07	1.89E-05
1,1,2,2-Tetrachloroethane	79-34-5	< 3.94E-07	< 4.09E-07	< 3.33E-07	< 4.51E-07	< 3.66E-07	< 3.46E-07	< 3.92E-07	< 5.88E-07	< 4.29E-07	< 4.97E-07	< 3.31E-07
Cumene	98-82-8	2.54E-06	5.27E-06	2.23E-06	3.11E-07	1.50E-05	2.75E-05	< 6.28E-08	4.50E-07	6.26E-06	< 7.93E-08	5.25E-06
1,3-Cyclooctadiene	1700-10-3	< 1.68E-07	< 1.99E-07	< 1.47E-07	5.78E-06	< 1.61E-07	6.06E-07	< 1.92E-07	< 2.51E-07	< 1.83E-07	< 2.44E-07	< 1.46E-07
1,5-Cyclooctadiene	111-78-4	< 1.29E-07	< 1.62E-07	< 1.21E-07	< 1.79E-07	< 1.33E-07	< 1.26E-07	< 1.74E-07	< 2.15E-07	< 1.40E-07	< 2.21E-07	< 1.21E-07
3-Methyl styrene	100-80-1	1.22E-06	< 1.19E-07	< 7.07E-08	< 1.31E-07	2.45E-07	< 7.37E-08	< 1.22E-07	1.08E-06	< 9.08E-08	< 1.54E-07	< 7.02E-08
4-Methyl styrene	622-97-9	9.37E-07	< 1.12E-07	< 6.85E-08	< 1.23E-07	< 7.55E-08	< 7.10E-08	< 1.17E-07	< 1.40E-07	< 9.13E-08	< 1.48E-07	< 6.80E-08
N-Butyl acetate	123-86-4	< 4.27E-07	< 4.41E-07	3.79E-06	< 4.65E-07	< 4.22E-07	1.37E-04	1.60E-04	< 8.78E-07	< 4.72E-07	2.35E-03	5.66E-05
S-Butyl acetate	105-46-4	< 5.53E-07	< 5.27E-07	< 5.43E-07	< 5.55E-07	< 6.07E-07	< 5.80E-07	< 7.48E-07	< 1.11E-06	< 6.11E-07	< 1.01E-06	< 5.49E-07
T-Butyl acetate	540-88-5	< 3.22E-07	< 3.81E-07	< 3.17E-07	< 4.01E-07	< 3.55E-07	< 3.39E-07	< 4.53E-07	< 8.33E-07	< 3.56E-07	4.75E-03	< 3.21E-07
Camphene	79-92-5	< 1.44E-07	< 1.87E-07	< 1.24E-07	< 2.06E-07	< 1.37E-07	< 1.29E-07	< 1.70E-07	< 1.94E-07	< 1.57E-07	< 2.16E-07	< 1.24E-07
4-Chlorostyrene	1073-67-2	< 1.10E-07	< 1.46E-07	< 8.96E-08	< 1.62E-07	< 9.88E-08	< 9.34E-08	4.14E-05	< 1.88E-07	< 1.19E-07	< 1.99E-07	< 8.92E-08
Cyclohexane	110-82-7	< 1.39E-07	1.26E-06	6.25E-07	< 2.02E-07	< 1.49E-07	< 1.52E-07	< 1.22E-07	< 2.52E-07	< 1.62E-07	< 2.05E-07	< 1.15E-07
Cyclohexene	110-83-8	7.84E-06	8.69E-06	5.08E-06	< 1.33E-07	< 9.54E-08	< 9.74E-08	< 9.00E-08	< 1.75E-07	< 1.08E-07	< 1.51E-07	< 7.42E-08
Heptane	142-82-5	< 2.22E-07	< 3.02E-07	< 1.82E-07	< 3.26E-07	< 2.43E-07	< 2.48E-07	< 2.14E-07	< 4.27E-07	< 2.59E-07	< 3.60E-07	< 1.89E-07
Nonane	111-84-2	2.62E-06	1.26E-05	1.83E-06	< 1.35E-07	< 1.01E-07	< 9.60E-08	< 1.45E-07	< 1.92E-07	< 1.00E-07	< 1.84E-07	2.45E-06
Octane	111-65-9	< 1.92E-07	< 2.65E-07	< 2.00E-07	< 2.79E-07	< 2.23E-07	< 2.14E-07	< 2.80E-07	< 4.08E-07	< 2.12E-07	< 3.77E-07	< 2.02E-07
Chloroprene	126-99-8	< 1.87E-07	< 2.25E-07	< 1.26E-07	< 2.44E-07	< 1.67E-07	< 1.71E-07	3.17E-05	< 2.96E-07	< 2.18E-07	< 2.54E-07	< 1.30E-07
Tetrahydrofuran	109-99-9	< 1.30E-06	< 1.49E-06	< 8.33E-07	< 1.61E-06	< 1.11E-06	< 1.13E-06	< 1.23E-06	< 2.18E-06	< 1.52E-06	< 2.06E-06	< 8.61E-07
1,2,4-Trimethylbenzene	95-63-6	1.56E-04	6.98E-05	9.53E-05	5.40E-06	6.51E-06	5.19E-06	1.42E-06	9.76E-06	< 8.35E-08	< 1.13E-07	4.04E-05
TOTAL Detected		2.25E-02	9.62E-03	7.72E-03	3.87E-04	2.53E-03	1.48E-03	2.59E-03	3.47E-03	6.73E-03	9.76E-02	8.42E-03
TOTAL with non-detects		< 2.26E-02	< 9.64E-03	< 7.73E-03	< 4.16E-04	< 2.54E-03	< 1.49E-03	< 2.61E-03	< 3.50E-03	< 6.75E-03	< 9.76E-02	< 8.44E-03

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 7 Autoclave Speciated Volatiles Summary
Blowdown - Liquid

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
Chloromethane	74-87-3	< 2.13E-09	< 2.85E-09	< 2.02E-09	< 5.36E-09	6.74E-09	< 2.31E-09	< 1.60E-09	< 2.37E-09	< 2.62E-09	< 2.52E-09	< 1.70E-09
Vinyl Chloride	75-01-4	< 1.96E-09	< 2.71E-09	< 1.98E-09	< 5.09E-09	< 2.26E-09	< 2.27E-09	< 1.62E-09	< 2.39E-09	< 2.41E-09	< 2.55E-09	< 1.67E-09
1,3-Butadiene	106-99-0	< 1.45E-09	< 1.92E-09	< 1.25E-09	< 3.61E-09	< 1.43E-09	< 1.43E-09	< 1.24E-09	< 1.34E-09	< 1.79E-09	< 1.95E-09	< 1.05E-09
Bromomethane	74-83-9	< 3.08E-09	< 4.29E-09	< 2.39E-09	< 8.07E-09	< 2.72E-09	< 2.73E-09	< 2.41E-09	< 3.15E-09	< 3.80E-09	< 3.79E-09	< 2.01E-09
Chloroethane	75-003	< 2.62E-09	< 3.56E-09	< 2.68E-09	< 6.69E-09	< 3.06E-09	< 3.07E-09	< 2.20E-09	< 3.10E-09	< 3.23E-09	< 3.46E-09	< 2.26E-09
Vinyl bromide	593-60-2	< 2.12E-09	< 3.37E-09	< 1.80E-09	< 6.35E-09	< 2.05E-09	< 2.06E-09	< 1.74E-09	< 2.23E-09	< 2.61E-09	< 2.74E-09	< 1.52E-09
Trichlorofluoromethane	75-69-4	< 8.66E-10	< 1.18E-09	< 7.99E-10	< 2.21E-09	< 9.11E-10	< 9.16E-10	< 7.71E-10	< 8.96E-10	< 1.07E-09	< 1.22E-09	< 6.73E-10
1,1-Dichloroethene	75-35-4	< 2.03E-09	< 2.73E-09	< 1.64E-09	< 5.15E-09	< 1.87E-09	< 1.88E-09	< 1.55E-09	< 1.84E-09	< 2.51E-09	< 2.44E-09	< 1.38E-09
Iodomethane	74-88-4	< 6.17E-10	< 8.92E-10	< 5.42E-10	< 1.68E-09	< 6.18E-10	< 6.20E-10	< 7.22E-10	< 7.30E-10	< 7.60E-10	< 1.14E-09	< 4.54E-10
Carbon disulfide	75-15-0	< 4.80E-10	2.03E-08	< 4.47E-10	6.84E-08	5.44E-08	1.39E-08	2.59E-06	5.67E-06	< 5.94E-10	< 7.11E-10	< 3.77E-10
Acetone	67-64-1	1.30E-05	3.35E-05	3.85E-07	1.66E-06	7.11E-06	6.54E-06	8.11E-06	7.12E-07	2.39E-06	2.76E-04	1.06E-06
Allyl chloride	107-05-1	< 2.80E-09	< 3.25E-09	< 2.60E-09	< 6.11E-09	< 2.97E-09	< 2.98E-09	< 2.27E-09	< 3.01E-09	< 3.45E-09	< 3.58E-09	< 2.19E-09
Methylene chloride	75-09-2	1.66E-08	5.94E-06	3.62E-08	1.65E-07	2.75E-08	3.38E-08	3.36E-08	6.67E-07	1.90E-08	1.49E-05	7.34E-08
trans-1,2-Dichloroethene	156-60-5	< 2.05E-09	< 2.45E-09	< 1.73E-09	< 4.60E-09	< 1.97E-09	< 1.98E-09	< 1.46E-09	< 1.99E-09	< 2.53E-09	< 2.31E-09	< 1.46E-09
tert-Butyl methyl ether	1634-04-4	< 6.97E-10	2.30E-08	2.65E-09	6.88E-09	< 7.66E-10	1.02E-07	1.64E-07	< 8.25E-10	9.28E-09	1.01E-04	5.39E-09
Acrylonitrile	107-13-1	< 7.43E-09	< 3.06E-08	< 6.85E-09	< 5.75E-08	< 7.81E-09	< 7.84E-09	< 5.17E-09	< 8.12E-09	< 9.16E-09	< 8.15E-09	< 5.77E-09
n-Hexane	110-54-3	< 8.72E-10	< 1.06E-09	< 9.40E-10	< 2.00E-09	< 1.07E-09	< 1.07E-09	< 6.43E-10	< 9.94E-10	< 1.07E-09	< 1.01E-09	< 7.91E-10
1,1-Dichloroethane	75-34-3	< 9.14E-10	< 9.88E-10	< 8.94E-10	< 1.86E-09	< 1.02E-09	< 1.02E-09	< 6.46E-10	< 9.69E-10	< 1.13E-09	< 1.02E-09	< 7.53E-10
1,2-Epoxybutane	106-88-7	< 6.63E-09	< 5.28E-09	< 4.80E-09	< 9.92E-09	< 5.47E-09	< 5.49E-09	< 5.45E-09	< 1.23E-08	< 8.17E-09	< 8.58E-09	< 4.04E-09
cis-1,2-Dichloroethene	156-59-2	< 2.60E-09	< 2.76E-09	< 2.04E-09	< 5.19E-09	< 2.33E-09	< 2.34E-09	< 1.64E-09	< 2.16E-09	< 3.20E-09	< 2.58E-09	< 1.72E-09
Chloroform	67-66-3	< 1.08E-09	< 1.11E-09	< 9.01E-10	< 2.09E-09	< 1.03E-09	< 1.03E-09	< 6.84E-10	2.45E-06	< 1.33E-09	1.49E-08	< 7.59E-10
1,2-Dichloroethane	107-06-2	< 1.21E-09	< 1.34E-09	< 1.20E-09	< 2.51E-09	< 1.57E-09	< 1.37E-09	< 9.77E-10	< 1.31E-09	< 1.49E-09	< 1.54E-09	< 1.01E-09
Isooctane	540-84-1	< 2.54E-10	< 2.91E-10	< 2.77E-10	< 5.44E-10	< 3.15E-10	< 3.15E-10	< 1.95E-10	< 2.74E-10	< 3.13E-10	< 3.06E-10	< 2.32E-10
Vinyl acetate	108-05-4	< 7.26E-10	< 1.07E-09	< 7.77E-10	< 1.96E-09	< 7.42E-10	< 6.98E-10	< 9.80E-10	< 1.10E-09	< 8.48E-10	< 1.24E-09	< 6.41E-10
2-Butanone	78-93-3	1.32E-06	9.35E-07	1.71E-07	9.50E-07	1.40E-06	9.76E-07	3.27E-07	4.88E-07	4.09E-07	1.59E-05	5.35E-07
1,1,1-Trichloroethane	71-55-6	< 9.22E-10	< 1.06E-09	< 1.05E-09	< 1.93E-09	< 1.01E-09	< 9.46E-10	< 9.91E-10	< 9.41E-10	< 1.08E-09	< 1.25E-09	< 8.68E-10
Carbon tetrachloride	56-23-5	< 8.16E-10	< 1.05E-09	< 9.92E-10	< 1.92E-09	< 9.52E-10	< 8.93E-10	< 1.01E-09	1.38E-05	< 9.53E-10	< 1.28E-09	< 8.20E-10
Benzene	71-43-2	3.32E-07	1.10E-07	2.46E-07	6.48E-08	8.44E-08	3.71E-08	4.12E-08	9.45E-08	< 5.53E-10	3.17E-08	3.49E-07
Trichloroethene	79-01-6	< 1.18E-09	4.81E-09	< 1.28E-09	< 2.63E-09	< 1.22E-09	< 1.15E-09	< 1.25E-09	< 1.23E-09	< 1.38E-09	< 1.58E-09	< 1.06E-09
1,2-Dichloropropane	78-87-5	< 1.39E-09	< 1.49E-09	< 1.74E-09	< 2.72E-09	< 1.66E-09	< 1.56E-09	< 1.35E-09	< 1.55E-09	< 1.62E-09	< 1.71E-09	< 1.43E-09
Ethyl acrylate	140-88-5	< 1.24E-09	< 1.07E-09	< 1.54E-09	< 1.96E-09	< 1.47E-09	< 1.39E-09	< 1.31E-09	< 1.55E-09	< 1.45E-09	< 1.66E-09	< 1.27E-09
Methyl methacrylate	80-62-6	< 3.55E-09	< 3.03E-09	< 4.15E-09	< 5.54E-09	< 3.97E-09	< 3.74E-09	< 3.57E-09	< 4.08E-09	< 4.15E-09	< 4.52E-09	< 3.43E-09
Bromodichloromethane	75-27-4	< 1.19E-09	< 1.25E-09	< 1.30E-09	< 2.28E-09	< 1.24E-09	< 1.17E-09	< 1.07E-09	< 1.09E-09	< 1.39E-09	< 1.35E-09	< 1.07E-09
cis-1,3-Dichloropropene	10061-01-5	< 9.14E-10	< 9.43E-10	< 1.05E-09	< 1.73E-09	< 1.01E-09	< 9.46E-10	< 8.93E-10	< 9.36E-10	< 1.07E-09	< 1.13E-09	< 8.68E-10

* - Extruded, all other compounds are unextruded

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Table D.1 - 7 Autoclave Speciated Volatiles Summary
Blowdown - Liquid

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
trans-1,3-Dichloropropene	10061-02-6	< 1.15E-09	< 1.15E-09	< 1.32E-09	< 2.11E-09	< 1.26E-09	< 1.19E-09	< 1.13E-09	< 1.17E-09	< 1.34E-09	< 1.43E-09	< 1.09E-09
1,1,2-Trichloroethane	79-00-5	< 2.34E-09	< 2.30E-09	< 2.42E-09	< 4.20E-09	< 2.31E-09	< 2.18E-09	< 2.11E-09	< 2.08E-09	< 2.74E-09	< 2.67E-09	< 2.00E-09
Dibromochloromethane	124-48-1	< 1.16E-09	< 1.38E-09	< 1.32E-09	< 2.52E-09	< 1.26E-09	< 1.18E-09	< 1.30E-09	< 1.29E-09	< 1.35E-09	< 1.65E-09	< 1.08E-09
Ethylene dibromide	106-93-4	< 1.61E-09	< 1.69E-09	< 1.70E-09	< 3.08E-09	< 1.63E-09	< 1.53E-09	< 1.85E-09	< 1.71E-09	< 1.88E-09	< 2.34E-09	< 1.41E-09
Bromoform	75-25-2	< 1.95E-09	< 2.16E-09	< 2.31E-09	< 3.96E-09	< 2.21E-09	< 2.08E-09	< 2.35E-09	< 2.38E-09	< 2.28E-09	< 2.97E-09	< 1.90E-09
4-Methyl-2-pentanone	108-10-1	1.09E-04	< 1.47E-09	5.52E-05	< 2.82E-09	6.98E-06	3.16E-07	< 1.53E-09	< 1.65E-09	3.69E-05	< 1.82E-09	4.81E-05
Toluene	108-88-3	< 9.56E-10	1.17E-07	5.08E-08	7.65E-08	2.96E-08	2.81E-08	1.67E-08	7.65E-08	2.56E-07	1.42E-08	3.06E-08
Tetrachloroethene	127-18-4	4.35E-09	< 1.56E-09	< 1.60E-09	< 2.99E-09	3.96E-09	< 1.40E-09	< 1.41E-09	6.00E-08	7.04E-09	< 1.68E-09	< 1.30E-09
2-Hexanone	591-78-6	4.67E-08	< 2.15E-09	6.54E-08	< 4.13E-09	1.07E-07	5.54E-08	< 2.23E-09	< 2.38E-09	< 3.01E-09	< 2.65E-09	< 2.36E-09
Chlorobenzene	108-90-7	< 5.43E-10	< 6.41E-10	< 6.40E-10	< 1.23E-09	< 5.99E-10	< 5.58E-10	< 5.84E-10	< 5.66E-10	< 6.26E-10	< 6.97E-10	< 5.18E-10
Ethylbenzene	100-41-4	3.17E-08	2.92E-08	2.06E-08	1.14E-08	8.56E-09	6.42E-09	3.71E-09	6.42E-09	1.10E-08	< 9.98E-10	2.70E-08
m-/p-Xylene	108-38-3/106-42-3	2.14E-06	4.00E-06	5.29E-08	4.04E-08	1.95E-08	1.09E-08	1.35E-08	1.70E-08	2.06E-08	4.60E-09	3.58E-08
o-Xylene	95-47-6	6.48E-08	5.00E-08	4.06E-08	1.78E-08	1.17E-08	7.89E-09	6.33E-09	1.00E-08	8.49E-09	< 1.02E-09	2.41E-08
Styrene	100-42-5	9.04E-09	1.71E-08	2.87E-07	< 1.23E-09	6.88E-08	4.35E-08	2.95E-09	3.31E-09	5.26E-09	< 6.52E-10	1.14E-07
1,1,2,2-Tetrachloroethane	79-34-5	< 2.22E-09	< 1.92E-09	< 2.47E-09	< 3.68E-09	< 2.32E-09	< 2.16E-09	< 1.88E-09	< 1.98E-09	< 2.55E-09	< 2.24E-09	< 2.00E-09
Cumene	98-82-8	1.43E-08	2.47E-08	1.66E-08	2.54E-09	9.53E-08	1.72E-07	< 3.01E-10	1.52E-09	3.73E-08	< 3.57E-10	3.18E-08
1,3-Cyclooctadiene	1700-10-3	< 9.46E-10	< 9.35E-10	< 1.09E-09	4.72E-08	< 1.02E-09	3.79E-09	< 9.23E-10	< 8.45E-10	< 1.09E-09	< 1.10E-09	< 8.82E-10
1,5-Cyclooctadiene	111-78-4	< 7.23E-10	< 7.60E-10	< 9.01E-10	< 1.46E-09	< 8.47E-10	< 7.87E-10	< 8.36E-10	< 7.25E-10	< 8.36E-10	< 9.95E-10	< 7.29E-10
3-Methyl styrene	100-80-1	6.89E-09	< 5.59E-10	< 5.25E-10	< 1.07E-09	1.56E-09	< 4.61E-10	< 5.84E-10	3.63E-09	< 5.41E-10	< 6.94E-10	< 4.25E-10
4-Methyl styrene	622-97-9	5.27E-09	< 5.25E-10	< 5.09E-10	< 1.00E-09	< 4.79E-10	< 4.44E-10	< 5.62E-10	< 4.73E-10	< 5.44E-10	< 6.69E-10	< 4.11E-10
N-Butyl acetate	123-86-4	< 2.40E-09	< 2.07E-09	2.82E-08	< 3.79E-09	< 2.68E-09	8.59E-07	7.70E-07	< 2.96E-09	< 2.81E-09	1.06E-05	3.43E-07
S-Butyl acetate	105-46-4	< 3.11E-09	< 2.48E-09	< 4.03E-09	< 4.53E-09	< 3.85E-09	< 3.63E-09	< 3.59E-09	< 3.75E-09	< 3.64E-09	< 4.54E-09	< 3.32E-09
T-Butyl acetate	540-88-5	< 1.81E-09	< 1.79E-09	< 2.36E-09	< 3.27E-09	< 2.25E-09	< 2.12E-09	< 2.17E-09	< 2.80E-09	< 2.12E-09	2.14E-05	< 1.94E-09
Camphene	79-92-5	< 8.11E-10	< 8.78E-10	< 9.23E-10	< 1.68E-09	< 8.68E-10	< 8.07E-10	< 8.17E-10	< 6.54E-10	< 9.36E-10	< 9.72E-10	< 7.48E-10
4-Chlorostyrene	1073-67-2	< 6.17E-10	< 6.86E-10	< 6.66E-10	< 1.32E-09	< 6.27E-10	< 5.84E-10	1.99E-07	< 6.34E-10	< 7.11E-10	< 8.96E-10	< 5.40E-10
Cyclohexane	110-82-7	< 7.82E-10	5.93E-09	4.64E-09	< 1.65E-09	< 9.45E-10	< 9.49E-10	< 5.86E-10	< 8.50E-10	< 9.62E-10	< 9.24E-10	< 6.97E-10
Cyclohexene	110-83-8	4.41E-08	4.08E-08	3.77E-08	< 1.08E-09	< 6.06E-10	< 6.09E-10	< 4.32E-10	< 5.89E-10	< 6.46E-10	< 6.80E-10	< 4.49E-10
Heptane	142-82-5	< 1.25E-09	< 1.42E-09	< 1.35E-09	< 2.66E-09	< 1.54E-09	< 1.55E-09	< 1.03E-09	< 1.44E-09	< 1.54E-09	< 1.62E-09	< 1.14E-09
Nonane	111-84-2	1.48E-08	5.94E-08	1.36E-08	< 1.10E-09	< 6.43E-10	< 6.00E-10	< 6.95E-10	< 6.47E-10	< 5.96E-10	< 8.28E-10	1.48E-08
Octane	111-65-9	< 1.08E-09	< 1.25E-09	< 1.48E-09	< 2.28E-09	< 1.42E-09	< 1.33E-09	< 1.34E-09	< 1.38E-09	< 1.26E-09	< 1.70E-09	< 1.22E-09
Chloroprene	126-99-8	< 1.05E-09	< 1.06E-09	< 9.33E-10	< 1.99E-09	< 1.06E-09	< 1.07E-09	1.52E-07	< 9.96E-10	< 1.30E-09	< 1.15E-09	< 7.86E-10
Tetrahydrofuran	109-99-9	< 7.33E-09	< 7.00E-09	< 6.18E-09	< 1.32E-08	< 7.05E-09	< 7.07E-09	< 5.89E-09	< 7.35E-09	< 9.03E-09	< 9.29E-09	< 5.21E-09
1,2,4-Trimethylbenzene	95-63-6	8.77E-07	3.28E-07	7.08E-07	4.41E-08	4.13E-08	3.24E-08	6.83E-09	3.29E-08	< 4.97E-10	< 5.10E-10	2.45E-07
TOTAL Detected		1.27E-04	4.52E-05	5.73E-05	3.16E-06	1.60E-05	9.23E-06	1.24E-05	1.17E-05	4.01E-05	4.40E-04	5.10E-05
TOTAL with non-detects		< 1.27E-04	< 4.53E-05	< 5.74E-05	< 3.39E-06	< 1.61E-05	< 9.32E-06	< 1.25E-05	< 1.18E-05	< 4.02E-05	< 4.40E-04	< 5.10E-05

* - Extruded, all other compounds are unextruded

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Table D.1 - 8 Autoclave Speciated Volatiles Summary

Water Trap - Liquid

Compound	CAS #	Cmpd.#4 µg/L	Cmpd.#5 µg/L	Cmpd.#6 µg/L	Cmpd.#8 µg/L	Cmpd.#9* µg/L	Cmpd.#9 µg/L	Cmpd.#11 µg/L	Cmpd.#15 µg/L	Cmpd.#18 µg/L	Cmpd.#21 µg/L	Cmpd.#22 µg/L
Chloromethane	74-87-3	< 1.59	< 2.09	< 1.67	< 2.5	< 2.48	< 1.9	< 1.62	< 1.72	< 0.23	< 1.39	< 1.87
Vinyl Chloride	75-01-4	< 1.76	< 1.99	< 1.84	< 2.41	< 2.74	< 2.1	< 1.64	< 1.74	< 0.21	< 1.41	< 2.06
1,3-Butadiene	106-99-0	< 0.87	< 1.41	< 0.91	< 1.64	< 1.35	< 1.03	< 1.26	< 0.97	< 0.16	< 1.08	< 1.01
Bromomethane	74-83-9	< 1.84	< 3.15	< 1.93	< 3.16	< 2.87	< 2.2	< 2.44	< 2.3	< 0.33	< 2.1	< 2.16
Chloroethane	75-003	< 1.9	< 2.61	< 1.99	< 3.27	< 2.96	< 2.27	< 2.23	< 2.25	< 0.28	< 1.92	< 2.22
Vinyl bromide	593-60-2	< 1.29	< 2.48	< 1.36	< 2.58	< 2.02	< 1.55	< 1.77	< 1.62	< 0.23	< 1.52	< 1.52
Trichlorofluoromethane	75-69-4	< 0.66	< 0.86	< 0.69	< 0.97	< 1.03	< 0.79	< 0.78	< 0.65	< 0.09	< 0.67	< 0.77
1,1-Dichloroethene	75-35-4	< 1.45	< 2.01	< 1.52	< 1.93	< 2.27	< 1.74	< 1.57	< 1.34	< 0.22	< 1.35	< 1.7
Iodomethane	74-88-4	< 0.43	< 0.65	< 0.45	< 0.74	< 0.67	< 0.51	< 0.73	< 0.53	< 0.07	< 0.63	< 0.5
Carbon disulfide	75-15-0	< 0.42	7.73	< 0.44	63.88	16.29	< 0.5	4178.13	3120.73	70.35	6.98	< 0.49
Acetone	67-64-1	584.6	18381.55	< 3.7	566.3	1459.23	1063.6	6451.13	122.48	121	128857.38	451.11
Allyl chloride	107-05-1	< 2.41	< 2.38	< 2.52	< 2.95	< 3.75	< 2.87	< 2.31	< 2.19	< 0.3	< 1.98	< 2.82
Methylene chloride	75-09-2	40.5	35.71	37.57	53.56	26.52	24.23	29.69	76.93	1.97	81.61	30.6
trans-1,2-Dichloroethene	156-60-5	< 1.3	< 1.8	< 1.36	< 1.82	< 2.03	< 1.56	< 1.49	< 1.45	< 0.22	< 1.28	< 1.53
tert-Butyl methyl ether	1634-04-4	9.31	3.55	9.91	7.09	< 0.88	< 0.68	91.57	2.16	0.22	18346.41	11.2
Acrylonitrile	107-13-1	< 5.27	< 22.45	< 5.52	< 4.63	< 8.22	< 6.3	< 5.25	< 5.91	< 0.79	< 4.51	< 6.17
n-Hexane	110-54-3	< 0.74	< 0.78	< 0.77	< 1.11	< 1.15	< 0.88	< 0.65	< 0.72	< 0.09	< 0.56	< 0.86
1,1-Dichloroethane	75-34-3	< 0.74	< 0.73	< 0.78	< 0.95	< 1.16	< 0.89	< 0.65	< 0.71	< 0.1	< 0.56	< 0.87
1,2-Epoxybutane	106-88-7	< 3.53	< 3.87	< 3.7	< 3.83	< 5.5	< 4.22	< 5.53	< 8.98	< 0.71	< 4.75	< 4.14
cis-1,2-Dichloroethene	156-59-2	< 1.4	< 2.02	< 1.47	< 2.19	< 2.19	< 1.68	< 1.66	< 1.58	< 0.28	< 1.43	< 1.64
Chloroform	67-66-3	< 0.64	< 0.81	< 0.67	< 0.95	< 1	< 0.76	< 0.69	383.36	< 0.12	11.34	< 0.75
1,2-Dichloroethane	107-06-2	< 0.93	< 0.98	< 0.98	< 1.32	< 1.45	< 1.11	< 0.99	< 0.95	< 0.13	< 0.85	< 1.09
Isooctane	540-84-1	22.29	< 0.21	24.07	20.39	18.34	19.61	< 0.2	< 0.2	< 0.03	< 0.17	22.69
Vinyl acetate	108-05-4	< 0.38	< 0.83	< 0.4	< 0.66	< 0.6	< 0.45	< 0.8	< 0.82	< 0.09	< 0.72	< 0.43
2-Butanone	78-93-3	113.55	494.72	40.71	115.21	364.12	176.25	484.85	< 21.64	41.82	1839.65	154.28
1,1,1-Trichloroethane	71-55-6	< 0.54	< 0.82	< 0.56	< 0.77	< 0.85	< 0.64	< 0.81	< 0.7	< 0.12	< 0.73	< 0.6
Carbon tetrachloride	56-23-5	< 0.52	< 0.81	< 0.53	< 0.78	< 0.82	< 0.61	< 0.83	1111.19	< 0.1	14.18	< 0.57
Benzene	71-43-2	< 0.33	53.87	< 0.34	< 0.39	23.81	< 0.38	18	49.36	< 0.06	27.65	14.73
Trichloroethene	79-01-6	< 0.63	< 1.12	< 0.65	< 0.96	< 0.99	< 0.74	< 1.02	< 0.91	< 0.15	< 0.92	< 0.7
1,2-Dichloropropane	78-87-5	< 1.14	< 1.15	< 1.18	< 1.26	< 1.8	< 1.35	< 1.11	< 1.16	< 0.18	< 1	< 1.27
Ethyl acrylate	140-88-5	< 0.95	< 0.83	< 0.98	< 0.86	< 1.49	< 1.12	< 1.07	< 1.16	< 0.16	< 0.96	< 1.05
Methyl methacrylate	80-62-6	< 2.54	< 2.35	< 2.62	< 2.23	< 4	< 3	< 2.92	< 3.04	< 0.45	< 2.63	< 2.82
Bromodichloromethane	75-27-4	< 0.67	< 0.96	< 0.7	< 0.88	< 1.06	< 0.8	< 0.87	< 0.81	< 0.15	< 0.78	< 0.75
cis-1,3-Dichloropropene	10061-01-5	< 0.63	< 0.73	< 0.65	< 0.77	< 1	< 0.75	< 0.73	< 0.7	< 0.12	< 0.66	< 0.7

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 8 Autoclave Speciated Volatiles Summary

Water Trap - Liquid

Compound	CAS #	Cmpd.#4 µg/L	Cmpd.#5 µg/L	Cmpd.#6 µg/L	Cmpd.#8 µg/L	Cmpd.#9* µg/L	Cmpd.#9 µg/L	Cmpd.#11 µg/L	Cmpd.#15 µg/L	Cmpd.#18 µg/L	Cmpd.#21 µg/L	Cmpd.#22 µg/L
trans-1,3-Dichloropropene	10061-02-6	< 0.75	< 0.89	< 0.77	< 0.89	< 1.18	< 0.89	< 0.93	< 0.87	< 0.15	< 0.83	< 0.83
1,1,2-Trichloroethane	79-00-5	< 1.19	< 1.78	< 1.22	< 1.48	< 1.87	< 1.4	< 1.72	< 1.55	< 0.3	< 1.55	< 1.32
Dibromochloromethane	124-48-1	< 0.66	< 1.07	< 0.68	< 0.93	< 1.04	< 0.78	< 1.06	< 0.96	< 0.15	< 0.96	< 0.73
Ethylene dibromide	106-93-4	< 0.84	< 1.31	< 0.87	< 1.14	< 1.33	< 1	< 1.51	< 1.28	< 0.21	< 1.36	< 0.94
Bromoform	75-25-2	< 1.42	< 1.68	< 1.46	< 1.45	< 2.23	< 1.67	< 1.92	< 1.77	< 0.25	< 1.73	< 1.57
4-Methyl-2-pentanone	108-10-1	6320.03	< 1.11	1432.75	< 0.89	1191.62	< 1.16	< 1.22	< 1.22	716.9	< 1.09	2656.28
Toluene	108-88-3	15.4	49.33	10.76	5.79	15.39	10.19	9.61	39.56	6.51	13.9	9.55
Tetrachloroethene	127-18-4	< 0.92	< 1.17	< 0.96	< 1.34	< 1.42	< 1.07	< 1.12	38.34	< 0.17	4.45	< 1.01
2-Hexanone	591-78-6	< 1.58	< 1.62	< 1.65	< 1.41	< 2.45	< 1.84	< 1.77	< 1.76	< 0.34	< 1.59	< 1.74
Chlorobenzene	108-90-7	7.34	< 0.48	< 0.34	< 0.51	< 0.5	< 0.37	< 0.46	< 0.42	5.87	< 0.42	< 0.35
Ethylbenzene	100-41-4	< 0.48	8.68	< 0.5	< 0.74	2.97	1.37	< 0.67	4.68	< 0.11	1.75	< 0.53
m-/p-Xylene	108-38-3/106-42-3	18.67	1130.71	< 0.33	< 0.47	7.69	2.92	6.06	12.86		5.17	1.4
o-Xylene	95-47-6	1.98	15.15	< 0.5	< 0.7	5.02	2.73	< 0.68	7.16	< 0.12	2.6	< 0.52
Styrene	100-42-5	< 0.31	6.11	3.76	< 0.45	28.29	20.94	< 0.43	1.64	0.02	1.96	4.91
1,1,2,2-Tetrachloroethane	79-34-5	< 1.23	< 1.44	< 1.29	< 1.13	< 1.91	< 1.44	< 1.5	< 1.47	< 0.29	< 1.35	< 1.36
Cumene	98-82-8	< 0.16	6.61	< 0.17	< 0.24	29.41	27.41	< 0.24	< 0.2	0.17	5.78	0.95
1,3-Cyclooctadiene	1700-10-3	< 0.61	< 0.7	< 0.64	< 1.08	< 0.94	< 0.71	< 0.73	< 0.63	< 0.12	< 0.66	< 0.67
1,5-Cyclooctadiene	111-78-4	< 0.55	< 0.57	< 0.57	< 0.95	< 0.85	< 0.64	< 0.67	< 0.54	< 0.09	< 0.6	< 0.61
3-Methyl styrene	100-80-1	< 0.28	< 0.42	< 0.29	< 0.6	< 0.44	< 0.33	< 0.46	< 0.36	< 0.06	< 0.42	< 0.31
4-Methyl styrene	622-97-9	< 0.28	< 0.39	< 0.29	< 0.59	< 0.43	< 0.32	< 0.45	< 0.35	< 0.06	< 0.4	< 0.31
N-Butyl acetate	123-86-4	< 1.94	< 1.61	< 2	< 2.81	651.66	77.7	679.56	< 2.21	< 0.31	1186.1	45.08
S-Butyl acetate	105-46-4	< 2.6	< 1.92	< 2.68	< 3.71	< 4.1	< 3.07	< 2.94	< 2.8	< 0.4	< 2.64	< 2.89
T-Butyl acetate	540-88-5	< 1.6	< 1.39	< 1.65	< 1.95	< 2.52	< 1.89	2731.03	< 2.09	< 0.23	4926.99	< 1.77
Camphene	79-92-5	< 0.45	< 0.66	< 0.47	< 0.85	< 0.7	< 0.53	< 0.65	< 0.48	< 0.1	< 0.58	< 0.5
4-Chlorostyrene	1073-67-2	< 0.36	< 0.52	< 0.38	< 0.77	< 0.56	< 0.42	60.85	< 0.47	< 0.08	< 0.54	< 0.4
Cyclohexane	110-82-7	< 0.7	< 0.64	< 0.73	< 1.05	< 1.08	< 0.83	< 0.6	< 0.62	< 0.08	< 0.51	< 0.82
Cyclohexene	110-83-8	< 0.47	16.63	< 0.49	< 0.74	< 0.74	< 0.56	< 0.44	< 0.43	< 0.06	< 0.38	< 0.55
Heptane	142-82-5	< 1.18	< 1.04	< 1.24	< 2.15	< 1.84	< 1.41	< 1.04	< 1.05	< 0.13	< 0.9	< 1.38
Nonane	111-84-2	< 0.45	18.15	< 0.47	< 0.69	< 0.7	< 0.53	< 0.55	< 0.48	< 0.07	< 0.5	< 0.5
Octane	111-65-9	< 1	< 0.96	< 1.03	< 1.44	< 1.58	< 1.19	< 1.1	< 1.03	< 0.14	< 0.99	< 1.11
Chloroprene	126-99-8	< 0.78	< 0.78	< 0.82	< 1.24	< 1.21	< 0.93	128.07	< 0.73	< 0.11	< 0.63	< 0.91
Tetrahydrofuran	109-99-9	< 4.46	< 5.14	< 4.67	< 8.42	< 6.95	< 5.32	< 5.98	< 5.35	< 0.78	< 5.14	< 5.22
1,2,4-Trimethylbenzene	95-63-6	12.18	110.23	8.7	< 0.32	16.43	12.84	< 0.34	20.66	< 0.06	7.82	7.01
TOTAL Detected		7145.85	20338.73	1568.23	832.22	3856.79	1439.79	14868.55	4991.01	964.83	155341.72	3409.79
TOTAL with non-detects		7210.60	20430.90	1640.27	923.86	3953.69	1515.47	14943.35	5088.88	975.97	155404.05	3481.70

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 8 Autoclave Speciated Volatiles Summary

Water Trap - Liquid

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
Chloromethane	74-87-3	< 1.71E-07	< 2.25E-07	< 1.79E-07	< 2.69E-07	< 2.67E-07	< 2.04E-07	< 1.74E-07	< 1.85E-07	< 2.47E-08	< 1.49E-07	< 2.01E-07
Vinyl Chloride	75-01-4	< 1.89E-07	< 2.14E-07	< 1.98E-07	< 2.59E-07	< 2.94E-07	< 2.26E-07	< 1.76E-07	< 1.87E-07	< 2.26E-08	< 1.52E-07	< 2.21E-07
1,3-Butadiene	106-99-0	< 9.35E-08	< 1.52E-07	< 9.78E-08	< 1.76E-07	< 1.45E-07	< 1.11E-07	< 1.35E-07	< 1.04E-07	< 1.72E-08	< 1.16E-07	< 1.09E-07
Bromomethane	74-83-9	< 1.98E-07	< 3.39E-07	< 2.07E-07	< 3.40E-07	< 3.08E-07	< 2.36E-07	< 2.62E-07	< 2.47E-07	< 3.55E-08	< 2.26E-07	< 2.32E-07
Chloroethane	75-003	< 2.04E-07	< 2.81E-07	< 2.14E-07	< 3.51E-07	< 3.18E-07	< 2.44E-07	< 2.40E-07	< 2.42E-07	< 3.01E-08	< 2.06E-07	< 2.39E-07
Vinyl bromide	593-60-2	< 1.39E-07	< 2.67E-07	< 1.46E-07	< 2.77E-07	< 2.17E-07	< 1.67E-07	< 1.90E-07	< 1.74E-07	< 2.47E-08	< 1.63E-07	< 1.63E-07
Trichlorofluoromethane	75-69-4	< 7.09E-08	< 9.34E-08	< 7.42E-08	< 1.04E-07	< 1.11E-07	< 8.49E-08	< 8.38E-08	< 6.99E-08	< 9.67E-09	< 7.20E-08	< 8.28E-08
1,1-Dichloroethene	75-35-4	< 1.56E-07	< 2.16E-07	< 1.63E-07	< 2.07E-07	< 2.44E-07	< 1.87E-07	< 1.69E-07	< 1.44E-07	< 2.36E-08	< 1.45E-07	< 1.83E-07
Iodomethane	74-88-4	< 4.62E-08	< 6.99E-08	< 4.84E-08	< 7.95E-08	< 7.20E-08	< 5.48E-08	< 7.85E-08	< 5.70E-08	< 7.52E-09	< 6.77E-08	< 5.37E-08
Carbon disulfide	75-15-0	< 4.51E-08	8.31E-07	< 4.73E-08	6.87E-06	1.75E-06	< 5.37E-08	4.49E-04	3.35E-04	7.56E-06	7.50E-07	< 5.27E-08
Acetone	67-64-1	6.28E-05	1.98E-03	< 3.98E-07	6.09E-05	1.57E-04	1.14E-04	6.93E-04	1.32E-05	1.30E-05	1.38E-02	4.85E-05
Allyl chloride	107-05-1	< 2.59E-07	< 2.56E-07	< 2.71E-07	< 3.17E-07	< 4.03E-07	< 3.08E-07	< 2.48E-07	< 2.35E-07	< 3.22E-08	< 2.13E-07	< 3.03E-07
Methylene chloride	75-09-2	4.35E-06	3.84E-06	4.04E-06	5.76E-06	2.85E-06	2.60E-06	3.19E-06	8.27E-06	2.12E-07	8.77E-06	3.29E-06
trans-1,2-Dichloroethene	156-60-5	< 1.40E-07	< 1.93E-07	< 1.46E-07	< 1.96E-07	< 2.18E-07	< 1.68E-07	< 1.60E-07	< 1.56E-07	< 2.36E-08	< 1.38E-07	< 1.64E-07
tert-Butyl methyl ether	1634-04-4	1.00E-06	3.82E-07	1.07E-06	7.62E-07	< 9.46E-08	< 7.31E-08	9.84E-06	2.32E-07	2.36E-08	1.97E-03	1.20E-06
Acrylonitrile	107-13-1	< 5.66E-07	< 2.41E-06	< 5.93E-07	< 4.98E-07	< 8.83E-07	< 6.77E-07	< 5.64E-07	< 6.35E-07	< 8.49E-08	< 4.85E-07	< 6.63E-07
n-Hexane	110-54-3	< 7.95E-08	< 8.38E-08	< 8.28E-08	< 1.19E-07	< 1.24E-07	< 9.46E-08	< 6.99E-08	< 7.74E-08	< 9.67E-09	< 6.02E-08	< 9.24E-08
1,1-Dichloroethane	75-34-3	< 7.95E-08	< 7.85E-08	< 8.38E-08	< 1.02E-07	< 1.25E-07	< 9.57E-08	< 6.99E-08	< 7.63E-08	< 1.07E-08	< 6.02E-08	< 9.35E-08
1,2-Epoxybutane	106-88-7	< 3.79E-07	< 4.16E-07	< 3.98E-07	< 4.12E-07	< 5.91E-07	< 4.54E-07	< 5.94E-07	< 9.65E-07	< 7.63E-08	< 5.10E-07	< 4.45E-07
cis-1,2-Dichloroethene	156-59-2	< 1.50E-07	< 2.17E-07	< 1.58E-07	< 2.35E-07	< 2.35E-07	< 1.81E-07	< 1.78E-07	< 1.70E-07	< 3.01E-08	< 1.54E-07	< 1.76E-07
Chloroform	67-66-3	< 6.88E-08	< 8.71E-08	< 7.20E-08	< 1.02E-07	< 1.07E-07	< 8.17E-08	< 7.42E-08	4.12E-05	< 1.29E-08	1.22E-06	< 8.06E-08
1,2-Dichloroethane	107-06-2	< 1.00E-07	< 1.05E-07	< 1.05E-07	< 1.42E-07	< 1.56E-07	< 1.19E-07	< 1.06E-07	< 1.02E-07	< 1.40E-08	< 9.14E-08	< 1.17E-07
Isooctane	540-84-1	2.40E-06	< 2.26E-08	2.59E-06	2.19E-06	1.97E-06	2.11E-06	< 2.15E-08	< 2.15E-08	< 3.22E-09	< 1.83E-08	2.44E-06
Vinyl acetate	108-05-4	< 4.08E-08	< 8.92E-08	< 4.30E-08	< 7.09E-08	< 6.45E-08	< 4.84E-08	< 8.60E-08	< 8.81E-08	< 9.67E-09	< 7.74E-08	< 4.62E-08
2-Butanone	78-93-3	1.22E-05	5.32E-05	4.38E-06	1.24E-05	3.91E-05	1.89E-05	5.21E-05	< 2.33E-06	4.49E-06	1.98E-04	1.66E-05
1,1,1-Trichloroethane	71-55-6	< 5.80E-08	< 8.81E-08	< 6.02E-08	< 8.28E-08	< 9.14E-08	< 6.88E-08	< 8.71E-08	< 7.52E-08	< 1.29E-08	< 7.85E-08	< 6.45E-08
Carbon tetrachloride	56-23-5	< 5.59E-08	< 8.71E-08	< 5.70E-08	< 8.38E-08	< 8.81E-08	< 6.56E-08	< 8.92E-08	1.19E-04	< 1.07E-08	1.52E-06	< 6.13E-08
Benzene	71-43-2	< 3.55E-08	5.79E-06	< 3.65E-08	< 4.19E-08	2.56E-06	< 4.08E-08	1.93E-06	5.30E-06	< 6.45E-09	2.97E-06	1.58E-06
Trichloroethene	79-01-6	< 6.77E-08	< 1.20E-07	< 6.99E-08	< 1.03E-07	< 1.06E-07	< 7.95E-08	< 1.10E-07	< 9.78E-08	< 1.61E-08	< 9.89E-08	< 7.52E-08
1,2-Dichloropropane	78-87-5	< 1.23E-07	< 1.24E-07	< 1.27E-07	< 1.35E-07	< 1.93E-07	< 1.45E-07	< 1.19E-07	< 1.25E-07	< 1.93E-08	< 1.07E-07	< 1.36E-07
Ethyl acrylate	140-88-5	< 1.02E-07	< 8.92E-08	< 1.05E-07	< 9.24E-08	< 1.60E-07	< 1.20E-07	< 1.15E-07	< 1.25E-07	< 1.72E-08	< 1.03E-07	< 1.13E-07
Methyl methacrylate	80-62-6	< 2.73E-07	< 2.53E-07	< 2.82E-07	< 2.40E-07	< 4.30E-07	< 3.22E-07	< 3.14E-07	< 3.27E-07	< 4.84E-08	< 2.83E-07	< 3.03E-07
Bromodichloromethane	75-27-4	< 7.20E-08	< 1.03E-07	< 7.52E-08	< 9.46E-08	< 1.14E-07	< 8.60E-08	< 9.35E-08	< 8.71E-08	< 1.61E-08	< 8.38E-08	< 8.06E-08
cis-1,3-Dichloropropene	10061-01-5	< 6.77E-08	< 7.85E-08	< 6.99E-08	< 8.28E-08	< 1.07E-07	< 8.06E-08	< 7.85E-08	< 7.52E-08	< 1.29E-08	< 7.09E-08	< 7.52E-08

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 8 Autoclave Speciated Volatiles Summary

Water Trap - Liquid

Compound	CAS #	Cmpd.#4 lb/hr	Cmpd.#5 lb/hr	Cmpd.#6 lb/hr	Cmpd.#8 lb/hr	Cmpd.#9* lb/hr	Cmpd.#9 lb/hr	Cmpd.#11 lb/hr	Cmpd.#15 lb/hr	Cmpd.#18 lb/hr	Cmpd.#21 lb/hr	Cmpd.#22 lb/hr
trans-1,3-Dichloropropene	10061-02-6	< 8.06E-08	< 9.57E-08	< 8.28E-08	< 9.57E-08	< 1.27E-07	< 9.57E-08	< 1.00E-07	< 9.35E-08	< 1.61E-08	< 8.92E-08	< 8.92E-08
1,1,2-Trichloroethane	79-00-5	< 1.28E-07	< 1.91E-07	< 1.31E-07	< 1.59E-07	< 2.01E-07	< 1.50E-07	< 1.85E-07	< 1.67E-07	< 3.22E-08	< 1.67E-07	< 1.42E-07
Dibromochloromethane	124-48-1	< 7.09E-08	< 1.15E-07	< 7.31E-08	< 1.00E-07	< 1.12E-07	< 8.38E-08	< 1.14E-07	< 1.03E-07	< 1.61E-08	< 1.03E-07	< 7.85E-08
Ethylene dibromide	106-93-4	< 9.03E-08	< 1.41E-07	< 9.35E-08	< 1.23E-07	< 1.43E-07	< 1.07E-07	< 1.62E-07	< 1.38E-07	< 2.26E-08	< 1.46E-07	< 1.01E-07
Bromoform	75-25-2	< 1.53E-07	< 1.81E-07	< 1.57E-07	< 1.56E-07	< 2.40E-07	< 1.79E-07	< 2.06E-07	< 1.90E-07	< 2.69E-08	< 1.86E-07	< 1.69E-07
4-Methyl-2-pentanone	108-10-1	6.79E-04	< 1.19E-07	1.54E-04	< 9.57E-08	1.28E-04	< 1.25E-07	< 1.31E-07	< 1.31E-07	7.70E-05	< 1.17E-07	2.85E-04
Toluene	108-88-3	1.66E-06	5.30E-06	1.16E-06	6.22E-07	1.65E-06	1.10E-06	1.03E-06	4.25E-06	7.00E-07	1.49E-06	1.03E-06
Tetrachloroethene	127-18-4	< 9.89E-08	< 1.26E-07	< 1.03E-07	< 1.44E-07	< 1.53E-07	< 1.15E-07	< 1.20E-07	4.11E-06	< 1.83E-08	4.78E-07	< 1.09E-07
2-Hexanone	591-78-6	< 1.70E-07	< 1.74E-07	< 1.77E-07	< 1.52E-07	< 2.63E-07	< 1.98E-07	< 1.90E-07	< 1.89E-07	< 3.65E-08	< 1.71E-07	< 1.87E-07
Chlorobenzene	108-90-7	7.89E-07	< 5.16E-08	< 3.65E-08	< 5.48E-08	< 5.37E-08	< 3.98E-08	< 4.94E-08	< 4.51E-08	6.31E-07	< 4.51E-08	< 3.76E-08
Ethylbenzene	100-41-4	< 5.16E-08	9.33E-07	< 5.37E-08	< 7.95E-08	3.19E-07	1.47E-07	< 7.20E-08	5.03E-07	< 1.18E-08	1.88E-07	< 5.70E-08
m-/p-Xylene	108-38-3/106-42-3	2.01E-06	1.22E-04	< 3.55E-08	< 5.05E-08	8.26E-07	3.14E-07	6.51E-07	1.38E-06	0.00E+00	5.56E-07	1.50E-07
o-Xylene	95-47-6	2.13E-07	1.63E-06	< 5.37E-08	< 7.52E-08	5.40E-07	2.93E-07	< 7.31E-08	7.70E-07	< 1.29E-08	2.79E-07	< 5.59E-08
Styrene	100-42-5	< 3.33E-08	6.57E-07	4.04E-07	< 4.84E-08	3.04E-06	2.25E-06	< 4.62E-08	1.76E-07	2.15E-09	2.11E-07	5.28E-07
1,1,2,2-Tetrachloroethane	79-34-5	< 1.32E-07	< 1.55E-07	< 1.39E-07	< 1.21E-07	< 2.05E-07	< 1.55E-07	< 1.61E-07	< 1.58E-07	< 3.12E-08	< 1.45E-07	< 1.46E-07
Cumene	98-82-8	< 1.72E-08	7.10E-07	< 1.83E-08	< 2.58E-08	3.16E-06	2.95E-06	< 2.58E-08	< 2.15E-08	1.83E-08	6.21E-07	1.02E-07
1,3-Cyclooctadiene	1700-10-3	< 6.56E-08	< 7.52E-08	< 6.88E-08	< 1.16E-07	< 1.01E-07	< 7.63E-08	< 7.85E-08	< 6.77E-08	< 1.29E-08	< 7.09E-08	< 7.20E-08
1,5-Cyclooctadiene	111-78-4	< 5.91E-08	< 6.13E-08	< 6.13E-08	< 1.02E-07	< 9.14E-08	< 6.88E-08	< 7.20E-08	< 5.80E-08	< 9.67E-09	< 6.45E-08	< 6.56E-08
3-Methyl styrene	100-80-1	< 3.01E-08	< 4.51E-08	< 3.12E-08	< 6.45E-08	< 4.73E-08	< 3.55E-08	< 4.94E-08	< 3.87E-08	< 6.45E-09	< 4.51E-08	< 3.33E-08
4-Methyl styrene	622-97-9	< 3.01E-08	< 4.19E-08	< 3.12E-08	< 6.34E-08	< 4.62E-08	< 3.44E-08	< 4.84E-08	< 3.76E-08	< 6.45E-09	< 4.30E-08	< 3.33E-08
N-Butyl acetate	123-86-4	< 2.08E-07	< 1.73E-07	< 2.15E-07	< 3.02E-07	7.00E-05	8.35E-06	7.30E-05	< 2.38E-07	< 3.33E-08	1.27E-04	4.84E-06
S-Butyl acetate	105-46-4	< 2.79E-07	< 2.06E-07	< 2.88E-07	< 3.99E-07	< 4.41E-07	< 3.30E-07	< 3.16E-07	< 3.01E-07	< 4.30E-08	< 2.84E-07	< 3.11E-07
T-Butyl acetate	540-88-5	< 1.72E-07	< 1.49E-07	< 1.77E-07	< 2.10E-07	< 2.71E-07	< 2.03E-07	2.94E-04	< 2.25E-07	< 2.47E-08	5.30E-04	< 1.90E-07
Camphene	79-92-5	< 4.84E-08	< 7.09E-08	< 5.05E-08	< 9.14E-08	< 7.52E-08	< 5.70E-08	< 6.99E-08	< 5.16E-08	< 1.07E-08	< 6.23E-08	< 5.37E-08
4-Chlorostyrene	1073-67-2	< 3.87E-08	< 5.59E-08	< 4.08E-08	< 8.28E-08	< 6.02E-08	< 4.51E-08	6.54E-06	< 5.05E-08	< 8.60E-09	< 5.80E-08	< 4.30E-08
Cyclohexane	110-82-7	< 7.52E-08	< 6.88E-08	< 7.85E-08	< 1.13E-07	< 1.16E-07	< 8.92E-08	< 6.45E-08	< 6.66E-08	< 8.60E-09	< 5.48E-08	< 8.81E-08
Cyclohexene	110-83-8	< 5.05E-08	1.79E-06	< 5.27E-08	< 7.95E-08	< 7.95E-08	< 6.02E-08	< 4.73E-08	< 4.62E-08	< 6.45E-09	< 4.08E-08	< 5.91E-08
Heptane	142-82-5	< 1.27E-07	< 1.12E-07	< 1.33E-07	< 2.31E-07	< 1.98E-07	< 1.52E-07	< 1.12E-07	< 1.13E-07	< 1.40E-08	< 9.67E-08	< 1.48E-07
Nonane	111-84-2	< 4.84E-08	1.95E-06	< 5.05E-08	< 7.42E-08	< 7.52E-08	< 5.70E-08	< 5.91E-08	< 5.16E-08	< 7.52E-09	< 5.37E-08	< 5.37E-08
Octane	111-65-9	< 1.07E-07	< 1.03E-07	< 1.11E-07	< 1.55E-07	< 1.70E-07	< 1.28E-07	< 1.18E-07	< 1.11E-07	< 1.50E-08	< 1.06E-07	< 1.19E-07
Chloroprene	126-99-8	< 8.38E-08	< 8.38E-08	< 8.81E-08	< 1.33E-07	< 1.30E-07	< 1.00E-07	1.38E-05	< 7.85E-08	< 1.18E-08	< 6.77E-08	< 9.78E-08
Tetrahydrofuran	109-99-9	< 4.79E-07	< 5.52E-07	< 5.02E-07	< 9.05E-07	< 7.47E-07	< 5.72E-07	< 6.43E-07	< 5.75E-07	< 8.38E-08	< 5.52E-07	< 5.61E-07
1,2,4-Trimethylbenzene	95-63-6	1.31E-06	1.18E-05	9.35E-07	< 3.44E-08	1.77E-06	1.38E-06	< 3.65E-08	2.22E-06	< 6.45E-09	8.40E-07	7.53E-07
TOTAL Detected		7.68E-04	2.19E-03	1.69E-04	8.94E-05	4.15E-04	1.55E-04	1.60E-03	5.36E-04	1.04E-04	1.67E-02	3.66E-04
TOTAL with non-detects		< 7.75E-04	< 2.20E-03	< 1.76E-04	< 9.93E-05	< 4.25E-04	< 1.63E-04	< 1.61E-03	< 5.47E-04	< 1.05E-04	< 1.67E-02	< 3.74E-04

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 8 Autoclave Speciated Volatiles Summary

Water Trap - Liquid

Compound	CAS #	Cmpd.#4 B/D rubber	Cmpd.#5 B/D rubber	Cmpd.#6 B/D rubber	Cmpd.#8 B/D rubber	Cmpd.#9* B/D rubber	Cmpd.#9 B/D rubber	Cmpd.#11 B/D rubber	Cmpd.#15 B/D rubber	Cmpd.#18 B/D rubber	Cmpd.#21 B/D rubber	Cmpd.#22 B/D rubber
Chloromethane	74-87-3	< 2.26E-09	< 2.88E-09	< 2.86E-09	< 5.16E-09	< 5.64E-09	< 2.69E-09	< 2.23E-09	< 2.41E-09	< 3.40E-10	< 1.97E-09	< 2.60E-09
Vinyl Chloride	75-01-4	< 2.51E-09	< 2.74E-09	< 3.15E-09	< 4.97E-09	< 6.23E-09	< 2.97E-09	< 2.26E-09	< 2.44E-09	< 3.10E-10	< 2.00E-09	< 2.87E-09
1,3-Butadiene	106-99-0	< 1.24E-09	< 1.94E-09	< 1.56E-09	< 3.38E-09	< 3.07E-09	< 1.46E-09	< 1.73E-09	< 1.36E-09	< 2.36E-10	< 1.53E-09	< 1.41E-09
Bromomethane	74-83-9	< 2.62E-09	< 4.34E-09	< 3.30E-09	< 6.52E-09	< 6.53E-09	< 3.11E-09	< 3.36E-09	< 3.22E-09	< 4.87E-10	< 2.98E-09	< 3.01E-09
Chloroethane	75-003	< 2.70E-09	< 3.59E-09	< 3.40E-09	< 6.74E-09	< 6.73E-09	< 3.21E-09	< 3.07E-09	< 3.15E-09	< 4.14E-10	< 2.72E-09	< 3.09E-09
Vinyl bromide	593-60-2	< 1.84E-09	< 3.41E-09	< 2.33E-09	< 5.32E-09	< 4.59E-09	< 2.19E-09	< 2.43E-09	< 2.27E-09	< 3.40E-10	< 2.15E-09	< 2.12E-09
Trichlorofluoromethane	75-69-4	< 9.39E-10	< 1.18E-09	< 1.18E-09	< 2.00E-09	< 2.34E-09	< 1.12E-09	< 1.07E-09	< 9.11E-10	< 1.33E-10	< 9.49E-10	< 1.07E-09
1,1-Dichloroethene	75-35-4	< 2.06E-09	< 2.77E-09	< 2.60E-09	< 3.98E-09	< 5.16E-09	< 2.46E-09	< 2.16E-09	< 1.88E-09	< 3.25E-10	< 1.91E-09	< 2.37E-09
Iodomethane	74-88-4	< 6.12E-10	< 8.95E-10	< 7.70E-10	< 1.53E-09	< 1.52E-09	< 7.21E-10	< 1.00E-09	< 7.43E-10	< 1.03E-10	< 8.93E-10	< 6.97E-10
Carbon disulfide	75-15-0	< 5.98E-10	1.06E-08	< 7.53E-10	1.32E-07	3.70E-08	< 7.07E-10	5.75E-06	4.37E-06	1.04E-07	9.89E-09	< 6.83E-10
Acetone	67-64-1	8.32E-07	2.53E-05	< 6.33E-09	1.17E-06	3.32E-06	1.50E-06	8.87E-06	1.72E-07	1.79E-07	1.83E-04	6.28E-07
Allyl chloride	107-05-1	< 3.43E-09	< 3.28E-09	< 4.31E-09	< 6.08E-09	< 8.53E-09	< 4.06E-09	< 3.18E-09	< 3.07E-09	< 4.43E-10	< 2.81E-09	< 3.93E-09
Methylene chloride	75-09-2	5.76E-08	4.92E-08	6.43E-08	1.10E-07	6.03E-08	3.43E-08	4.08E-08	1.08E-07	2.91E-09	1.16E-07	4.26E-08
trans-1,2-Dichloroethene	156-60-5	< 1.85E-09	< 2.48E-09	< 2.33E-09	< 3.75E-09	< 4.62E-09	< 2.21E-09	< 2.05E-09	< 2.03E-09	< 3.25E-10	< 1.81E-09	< 2.13E-09
tert-Butyl methyl ether	1634-04-4	1.33E-08	4.89E-09	1.70E-08	1.46E-08	< 2.00E-09	< 9.62E-10	1.26E-07	3.03E-09	3.25E-10	2.60E-05	1.56E-08
Acrylonitrile	107-13-1	< 7.50E-09	< 3.09E-08	< 9.44E-09	< 9.55E-09	< 1.87E-08	< 8.91E-09	< 7.22E-09	< 8.28E-09	< 1.17E-09	< 6.39E-09	< 8.60E-09
n-Hexane	110-54-3	< 1.05E-09	< 1.07E-09	< 1.32E-09	< 2.29E-09	< 2.61E-09	< 1.24E-09	< 8.94E-10	< 1.01E-09	< 1.33E-10	< 7.94E-10	< 1.20E-09
1,1-Dichloroethane	75-34-3	< 1.05E-09	< 1.01E-09	< 1.33E-09	< 1.96E-09	< 2.64E-09	< 1.26E-09	< 8.94E-10	< 9.95E-10	< 1.48E-10	< 7.94E-10	< 1.21E-09
1,2-Epoxybutane	106-88-7	< 5.02E-09	< 5.33E-09	< 6.33E-09	< 7.90E-09	< 1.25E-08	< 5.97E-09	< 7.60E-09	< 1.26E-08	< 1.05E-09	< 6.73E-09	< 5.77E-09
cis-1,2-Dichloroethene	156-59-2	< 1.99E-09	< 2.78E-09	< 2.51E-09	< 4.52E-09	< 4.98E-09	< 2.38E-09	< 2.28E-09	< 2.21E-09	< 4.14E-10	< 2.03E-09	< 2.28E-09
Chloroform	67-66-3	< 9.11E-10	< 1.12E-09	< 1.15E-09	< 1.96E-09	< 2.27E-09	< 1.07E-09	< 9.49E-10	5.37E-07	< 1.77E-10	1.61E-08	< 1.04E-09
1,2-Dichloroethane	107-06-2	< 1.32E-09	< 1.35E-09	< 1.68E-09	< 2.72E-09	< 3.30E-09	< 1.57E-09	< 1.36E-09	< 1.33E-09	< 1.92E-10	< 1.20E-09	< 1.52E-09
Isooctane	540-84-1	3.17E-08	< 2.89E-10	4.12E-08	4.21E-08	4.17E-08	2.77E-08	< 2.75E-10	< 2.80E-10	< 4.43E-11	< 2.41E-10	3.16E-08
Vinyl acetate	108-05-4	< 5.41E-10	< 1.14E-09	< 6.84E-10	< 1.36E-09	< 1.36E-09	< 6.36E-10	< 1.10E-09	< 1.15E-09	< 1.33E-10	< 1.02E-09	< 5.99E-10
2-Butanone	78-93-3	1.62E-07	6.81E-07	6.96E-08	2.38E-07	8.28E-07	2.49E-07	6.67E-07	< 3.03E-08	6.18E-08	2.61E-06	2.15E-07
1,1,1-Trichloroethane	71-55-6	< 7.69E-10	< 1.13E-09	< 9.58E-10	< 1.59E-09	< 1.93E-09	< 9.05E-10	< 1.11E-09	< 9.81E-10	< 1.77E-10	< 1.03E-09	< 8.36E-10
Carbon tetrachloride	56-23-5	< 7.40E-10	< 1.12E-09	< 9.07E-10	< 1.61E-09	< 1.86E-09	< 8.63E-10	< 1.14E-09	1.56E-06	< 1.48E-10	2.01E-08	< 7.94E-10
Benzene	71-43-2	< 4.70E-10	7.42E-08	< 5.82E-10	< 8.04E-10	5.41E-08	< 5.37E-10	2.48E-08	6.92E-08	< 8.86E-11	3.92E-08	2.05E-08
Trichloroethene	79-01-6	< 8.97E-10	< 1.54E-09	< 1.11E-09	< 1.98E-09	< 2.25E-09	< 1.05E-09	< 1.40E-09	< 1.28E-09	< 2.22E-10	< 1.30E-09	< 9.75E-10
1,2-Dichloropropane	78-87-5	< 1.62E-09	< 1.58E-09	< 2.02E-09	< 2.60E-09	< 4.09E-09	< 1.91E-09	< 1.53E-09	< 1.63E-09	< 2.66E-10	< 1.42E-09	< 1.77E-09
Ethyl acrylate	140-88-5	< 1.35E-09	< 1.14E-09	< 1.68E-09	< 1.77E-09	< 3.39E-09	< 1.58E-09	< 1.47E-09	< 1.63E-09	< 2.36E-10	< 1.36E-09	< 1.46E-09
Methyl methacrylate	80-62-6	< 3.62E-09	< 3.24E-09	< 4.48E-09	< 4.60E-09	< 9.09E-09	< 4.24E-09	< 4.02E-09	< 4.26E-09	< 6.65E-10	< 3.73E-09	< 3.93E-09
Bromodichloromethane	75-27-4	< 9.54E-10	< 1.32E-09	< 1.20E-09	< 1.82E-09	< 2.41E-09	< 1.13E-09	< 1.20E-09	< 1.14E-09	< 2.22E-10	< 1.11E-09	< 1.04E-09
cis-1,3-Dichloropropene	10061-01-5	< 8.97E-10	< 1.01E-09	< 1.11E-09	< 1.59E-09	< 2.27E-09	< 1.06E-09	< 1.00E-09	< 9.81E-10	< 1.77E-10	< 9.35E-10	< 9.75E-10

* - Extruded, all other compounds are unextruded

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Table D.1 - 8 Autoclave Speciated Volatiles Summary

Water Trap - Liquid

Compound	CAS #	Cmpd.#4 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#6 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#9* lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#15 lb/lb rubber	Cmpd.#18 lb/lb rubber	Cmpd.#21 lb/lb rubber	Cmpd.#22 lb/lb rubber
trans-1,3-Dichloropropene	10061-02-6	< 1.07E-09	< 1.23E-09	< 1.32E-09	< 1.84E-09	< 2.68E-09	< 1.26E-09	< 1.28E-09	< 1.22E-09	< 2.22E-10	< 1.18E-09	< 1.16E-09
1,1,2-Trichloroethane	79-00-5	< 1.69E-09	< 2.45E-09	< 2.09E-09	< 3.05E-09	< 4.25E-09	< 1.98E-09	< 2.37E-09	< 2.17E-09	< 4.43E-10	< 2.20E-09	< 1.84E-09
Dibromochloromethane	124-48-1	< 9.39E-10	< 1.47E-09	< 1.16E-09	< 1.92E-09	< 2.36E-09	< 1.10E-09	< 1.46E-09	< 1.35E-09	< 2.22E-10	< 1.36E-09	< 1.02E-09
Ethylene dibromide	106-93-4	< 1.20E-09	< 1.80E-09	< 1.49E-09	< 2.35E-09	< 3.02E-09	< 1.41E-09	< 2.08E-09	< 1.79E-09	< 3.10E-10	< 1.93E-09	< 1.31E-09
Bromoform	75-25-2	< 2.02E-09	< 2.31E-09	< 2.50E-09	< 2.99E-09	< 5.07E-09	< 2.36E-09	< 2.64E-09	< 2.48E-09	< 3.69E-10	< 2.45E-09	< 2.19E-09
4-Methyl-2-pentanone	108-10-1	9.00E-06	< 1.53E-09	2.45E-06	< 1.84E-09	2.71E-06	< 1.64E-09	< 1.68E-09	< 1.71E-09	1.06E-06	< 1.54E-09	3.70E-06
Toluene	108-88-3	2.19E-08	6.79E-08	1.84E-08	1.19E-08	3.50E-08	1.44E-08	1.32E-08	5.54E-08	9.62E-09	1.97E-08	1.33E-08
Tetrachloroethene	127-18-4	< 1.31E-09	< 1.61E-09	< 1.64E-09	< 2.76E-09	< 3.23E-09	< 1.51E-09	< 1.54E-09	5.36E-08	< 2.51E-10	6.31E-09	< 1.41E-09
2-Hexanone	591-78-6	< 2.25E-09	< 2.23E-09	< 2.82E-09	< 2.91E-09	< 5.57E-09	< 2.60E-09	< 2.43E-09	< 2.47E-09	< 5.02E-10	< 2.25E-09	< 2.42E-09
Chlorobenzene	108-90-7	1.04E-08	< 6.61E-10	< 5.82E-10	< 1.05E-09	< 1.14E-09	< 5.23E-10	< 6.33E-10	< 5.89E-10	8.67E-09	< 5.95E-10	< 4.88E-10
Ethylbenzene	100-41-4	< 6.83E-10	1.20E-08	< 8.55E-10	< 1.53E-09	6.75E-09	1.94E-09	< 9.21E-10	6.56E-09	< 1.62E-10	2.48E-09	< 7.38E-10
m-/p-Xylene	108-38-3/106-42-3	2.66E-08	1.56E-06	< 5.64E-10	< 9.69E-10	1.75E-08	4.13E-09	8.33E-09	1.80E-08	0.00E+00	7.33E-09	1.95E-09
o-Xylene	95-47-6	2.82E-09	2.09E-08	< 8.55E-10	< 1.44E-09	1.14E-08	3.86E-09	< 9.35E-10	1.00E-08	< 1.77E-10	3.68E-09	< 7.24E-10
Styrene	100-42-5	< 4.41E-10	8.41E-09	6.43E-09	< 9.28E-10	6.43E-08	2.96E-08	< 5.91E-10	2.30E-09	2.95E-11	2.78E-09	6.84E-09
1,1,2,2-Tetrachloroethane	79-34-5	< 1.75E-09	< 1.98E-09	< 2.21E-09	< 2.33E-09	< 4.34E-09	< 2.04E-09	< 2.06E-09	< 2.06E-09	< 4.28E-10	< 1.91E-09	< 1.89E-09
Cumene	98-82-8	< 2.28E-10	9.10E-09	< 2.91E-10	< 4.95E-10	6.69E-08	3.88E-08	< 3.30E-10	< 2.80E-10	2.51E-10	8.19E-09	1.32E-09
1,3-Cyclooctadiene	1700-10-3	< 8.68E-10	< 9.64E-10	< 1.09E-09	< 2.23E-09	< 2.14E-09	< 1.00E-09	< 1.00E-09	< 8.83E-10	< 1.77E-10	< 9.35E-10	< 9.33E-10
1,5-Cyclooctadiene	111-78-4	< 7.83E-10	< 7.85E-10	< 9.75E-10	< 1.96E-09	< 1.93E-09	< 9.05E-10	< 9.21E-10	< 7.57E-10	< 1.33E-10	< 8.50E-10	< 8.50E-10
3-Methyl styrene	100-80-1	< 3.99E-10	< 5.78E-10	< 4.96E-10	< 1.24E-09	< 1.00E-09	< 4.67E-10	< 6.33E-10	< 5.05E-10	< 8.86E-11	< 5.95E-10	< 4.32E-10
4-Methyl styrene	622-97-9	< 3.99E-10	< 5.37E-10	< 4.96E-10	< 1.22E-09	< 9.78E-10	< 4.53E-10	< 6.19E-10	< 4.91E-10	< 8.86E-11	< 5.67E-10	< 4.32E-10
N-Butyl acetate	123-86-4	< 2.76E-09	< 2.22E-09	< 3.42E-09	< 5.80E-09	1.48E-06	1.10E-07	9.34E-07	< 3.10E-09	< 4.58E-10	1.68E-06	6.28E-08
S-Butyl acetate	105-46-4	< 3.70E-09	< 2.64E-09	< 4.58E-09	< 7.65E-09	< 9.32E-09	< 4.34E-09	< 4.04E-09	< 3.92E-09	< 5.91E-10	< 3.74E-09	< 4.03E-09
T-Butyl acetate	540-88-5	< 2.28E-09	< 1.91E-09	< 2.82E-09	< 4.02E-09	< 5.73E-09	< 2.67E-09	3.76E-06	< 2.93E-09	< 3.40E-10	6.98E-06	< 2.47E-09
Camphene	79-92-5	< 6.40E-10	< 9.09E-10	< 8.04E-10	< 1.75E-09	< 1.59E-09	< 7.49E-10	< 8.94E-10	< 6.73E-10	< 1.48E-10	< 8.22E-10	< 6.97E-10
4-Chlorostyrene	1073-67-2	< 5.12E-10	< 7.16E-10	< 6.50E-10	< 1.59E-09	< 1.27E-09	< 5.94E-10	8.37E-08	< 6.59E-10	< 1.18E-10	< 7.65E-10	< 5.57E-10
Cyclohexane	110-82-7	< 9.96E-10	< 8.81E-10	< 1.25E-09	< 2.17E-09	< 2.46E-09	< 1.17E-09	< 8.25E-10	< 8.69E-10	< 1.18E-10	< 7.23E-10	< 1.14E-09
Cyclohexene	110-83-8	< 6.69E-10	2.29E-08	< 8.38E-10	< 1.53E-09	< 1.68E-09	< 7.92E-10	< 6.05E-10	< 6.03E-10	< 8.86E-11	< 5.39E-10	< 7.66E-10
Heptane	142-82-5	< 1.68E-09	< 1.43E-09	< 2.12E-09	< 4.43E-09	< 4.18E-09	< 1.99E-09	< 1.43E-09	< 1.47E-09	< 1.92E-10	< 1.28E-09	< 1.92E-09
Nonane	111-84-2	< 6.40E-10	2.50E-08	< 8.04E-10	< 1.42E-09	< 1.59E-09	< 7.49E-10	< 7.56E-10	< 6.73E-10	< 1.03E-10	< 7.09E-10	< 6.97E-10
Octane	111-65-9	< 1.42E-09	< 1.32E-09	< 1.76E-09	< 2.97E-09	< 3.59E-09	< 1.68E-09	< 1.51E-09	< 1.44E-09	< 2.07E-10	< 1.40E-09	< 1.55E-09
Chloroprene	126-99-8	< 1.11E-09	< 1.07E-09	< 1.40E-09	< 2.56E-09	< 2.75E-09	< 1.32E-09	1.76E-07	< 1.02E-09	< 1.62E-10	< 8.93E-10	< 1.27E-09
Tetrahydrofuran	109-99-9	< 6.35E-09	< 7.08E-09	< 7.99E-09	< 1.74E-08	< 1.58E-08	< 7.52E-09	< 8.22E-09	< 7.50E-09	< 1.15E-09	< 7.28E-09	< 7.27E-09
1,2,4-Trimethylbenzene	95-63-6	1.73E-08	1.52E-07	1.49E-08	< 6.60E-10	3.74E-08	1.82E-08	< 4.68E-10	2.90E-08	< 8.86E-11	1.11E-08	9.77E-09
TOTAL Detected		1.02E-05	2.80E-05	2.68E-06	1.72E-06	8.77E-06	2.04E-06	2.04E-05	7.00E-06	1.43E-06	2.20E-04	4.75E-06
TOTAL, with non-detects		< 1.03E-05	< 2.81E-05	< 2.81E-06	< 1.91E-06	< 8.99E-06	< 2.14E-06	< 2.05E-05	< 7.13E-06	< 1.44E-06	< 2.20E-04	< 4.85E-06

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 9 Autoclave Sulfur Summary
Cooldown

	CAS #	Cmpd. #4	Cmpd. #5	Cmpd. #6	Cmpd. #8	Cmpd. #9*	Cmpd. #9	Cmpd. #11	Cmpd. #15	Cmpd. #19	Cmpd. #21	Cmpd. #22
Sulfur (µg/m³)												
Carbonyl Sulfide	463-58-1	< 9.80	< 9.80	< 9.80	150	< 9.80	< 9.80	< 9.80	78.8	153	< 9.80	< 9.80
Methyl Mercaptan	74-93-1	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90
Ethyl Mercaptan	75-08-1	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dimethyl Sulfide	75-18-3	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Carbon Disulfide	75-15-0	< 6.20	6.2	< 6.20	16981.6	74.7	27.9	2491.6	3671.6	14413.2	< 12.0	33.3
Isopropyl Mercaptan	75-33-2	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0
n-Propyl Mercaptan	107-03-9	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0
Thiophene	110-02-1	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0
Isobutyl Mercaptan	513-44-0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0
Diethyl Sulfide	352-93-2	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0
n-Butyl Mercaptan	109-79-5	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0
Dimethyl Disulfide	624-92-0	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70
3-Methylthiophene	616-44-4	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0
Tetrahydrothiophene	110-01-0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0
2-Ethylthiophene	872-55-9	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0
2,5-Dimethylthiophene	638-02-8	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0
Diethyl Disulfide	110-81-6	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TOTAL Detected		0.0	6.2	0.0	17131.6	74.7	27.9	2491.6	3750.4	14566.2	0.0	33.3
TOTAL with non-detects		< 237.6	< 237.6	< 237.6	< 17353.2	< 306.1	< 259.3	< 2723.0	< 3972.0	< 14787.8	< 243.4	< 264.7
Sulfur (lbs/hr)												
Carbonyl Sulfide	463-58-1	< 3.71E-06	< 3.19E-06	< 3.74E-06	4.89E-05	< 3.74E-06	< 3.74E-06	< 3.19E-05	4.72E-05	5.85E-05	< 3.19E-06	< 3.71E-06
Methyl Mercaptan	74-93-1	< 2.99E-06	< 2.57E-06	< 3.02E-06	< 2.57E-06	< 3.02E-06	< 3.02E-06	< 2.57E-06	< 4.73E-06	< 3.02E-06	< 2.57E-06	< 2.99E-06
Ethyl Mercaptan	75-08-1	< 3.78E-06	< 3.26E-06	< 3.82E-06	< 3.26E-06	< 3.82E-06	< 3.82E-06	< 3.26E-06	< 5.99E-06	< 3.82E-06	< 3.26E-06	< 3.78E-06
Dimethyl Sulfide	75-18-3	< 3.78E-06	< 3.26E-06	< 3.82E-06	< 3.26E-06	< 3.82E-06	< 3.82E-06	< 3.26E-06	< 5.99E-06	< 3.82E-06	< 3.26E-06	< 3.78E-06
Carbon Disulfide	75-15-0	< 2.35E-06	2.02E-06	< 2.37E-06	5.53E-03	2.85E-05	1.07E-05	8.12E-04	2.20E-03	5.51E-03	< 3.91E-06	1.26E-05
Isopropyl Mercaptan	75-33-2	< 4.54E-06	< 3.91E-06	< 4.59E-06	< 3.91E-06	< 4.59E-06	< 4.59E-06	< 3.91E-06	< 7.19E-06	< 4.59E-06	< 3.91E-06	< 4.54E-06
tert-Butyl Mercaptan	75-66-1	< 5.68E-06	< 4.89E-06	< 5.73E-06	< 4.89E-06	< 5.73E-06	< 5.73E-06	< 4.89E-06	< 8.99E-06	< 5.73E-06	< 4.89E-06	< 5.68E-06
n-Propyl Mercaptan	107-03-9	< 4.54E-06	< 3.91E-06	< 4.59E-06	< 3.91E-06	< 4.59E-06	< 4.59E-06	< 3.91E-06	< 7.19E-06	< 4.59E-06	< 3.91E-06	< 4.54E-06
Ethyl Methyl Sulfide	624-89-5	< 4.54E-06	< 3.91E-06	< 4.59E-06	< 3.91E-06	< 4.59E-06	< 4.59E-06	< 3.91E-06	< 7.19E-06	< 4.59E-06	< 3.91E-06	< 4.54E-06
Thiophene	110-02-1	< 5.30E-06	< 4.56E-06	< 5.35E-06	< 4.56E-06	< 5.35E-06	< 5.35E-06	< 4.56E-06	< 8.39E-06	< 5.35E-06	< 4.56E-06	< 5.30E-06
Isobutyl Mercaptan	513-44-0	< 5.68E-06	< 4.89E-06	< 5.73E-06	< 4.89E-06	< 5.73E-06	< 5.73E-06	< 4.89E-06	< 8.99E-06	< 5.73E-06	< 4.89E-06	< 5.68E-06
Diethyl Sulfide	352-93-2	< 5.68E-06	< 4.89E-06	< 5.73E-06	< 4.89E-06	< 5.73E-06	< 5.73E-06	< 4.89E-06	< 8.99E-06	< 5.73E-06	< 4.89E-06	< 5.68E-06
n-Butyl Mercaptan	109-79-5	< 5.68E-06	< 4.89E-06	< 5.73E-06	< 4.89E-06	< 5.73E-06	< 5.73E-06	< 4.89E-06	< 8.99E-06	< 5.73E-06	< 4.89E-06	< 5.68E-06
Dimethyl Disulfide	624-92-0	< 2.91E-06	< 2.51E-06	< 2.94E-06	< 2.51E-06	< 2.94E-06	< 2.94E-06	< 2.51E-06	< 4.62E-06	< 2.94E-06	< 2.51E-06	< 2.91E-06
3-Methylthiophene	616-44-4	< 6.05E-06	< 5.21E-06	< 6.11E-06	< 5.21E-06	< 6.11E-06	< 6.11E-06	< 5.21E-06	< 9.59E-06	< 6.11E-06	< 5.21E-06	< 6.05E-06
Tetrahydrothiophene	110-01-0	< 5.30E-06	< 4.56E-06	< 5.35E-06	< 4.56E-06	< 5.35E-06	< 5.35E-06	< 4.56E-06	< 8.39E-06	< 5.35E-06	< 4.56E-06	< 5.30E-06
2-Ethylthiophene	872-55-9	< 6.81E-06	< 5.87E-06	< 6.88E-06	< 5.87E-06	< 6.88E-06	< 6.88E-06	< 5.87E-06	< 1.08E-05	< 6.88E-06	< 5.87E-06	< 6.81E-06
2,5-Dimethylthiophene	638-02-8	< 6.81E-06	< 5.87E-06	< 6.88E-06	< 5.87E-06	< 6.88E-06	< 6.88E-06	< 5.87E-06	< 1.08E-05	< 6.88E-06	< 5.87E-06	< 6.81E-06
Diethyl Disulfide	110-81-6	< 3.78E-06	< 3.26E-06	< 3.82E-06	< 3.26E-06	< 3.82E-06	< 3.82E-06	< 3.26E-06	< 5.99E-06	< 3.82E-06	< 3.26E-06	< 3.78E-06
TOTAL Detected		0.0	2.02E-06	0.0	5.58E-03	2.85E-05	1.07E-05	8.12E-04	2.25E-03	5.57E-03	0.0	1.26E-05
TOTAL with non-detects		< 8.99E-05	< 7.74E-05	< 9.08E-05	< 5.66E-03	< 1.17E-04	< 9.91E-05	< 8.87E-04	< 2.38E-03	< 5.65E-03	< 7.93E-05	< 1.00E-04
Sulfur (lbs/lb rubber)												
Carbonyl Sulfide	463-58-1	< 4.30E-08	< 4.09E-08	< 4.47E-08	7.04E-07	< 4.36E-08	< 4.31E-08	< 3.06E-08	4.62E-07	6.03E-07	< 3.68E-08	< 3.60E-08
Methyl Mercaptan	74-93-1	< 3.46E-08	< 3.30E-08	< 3.60E-08	< 3.71E-08	< 3.51E-08	< 3.48E-08	< 2.47E-08	< 4.63E-08	< 3.11E-08	< 2.97E-08	< 2.91E-08
Ethyl Mercaptan	75-08-1	< 4.38E-08	< 4.18E-08	< 4.56E-08	< 4.69E-08	< 4.45E-08	< 4.40E-08	< 3.13E-08	< 5.86E-08	< 3.94E-08	< 3.76E-08	< 3.68E-08
Dimethyl Sulfide	75-18-3	< 4.38E-08	< 4.18E-08	< 4.56E-08	< 4.69E-08	< 4.45E-08	< 4.40E-08	< 3.13E-08	< 5.86E-08	< 3.94E-08	< 3.76E-08	< 3.68E-08
Carbon Disulfide	75-15-0	< 2.72E-08	2.59E-08	< 2.83E-08	7.97E-05	3.32E-07	1.23E-07	7.79E-06	2.15E-05	5.68E-05	< 4.51E-08	1.22E-07
Isopropyl Mercaptan	75-33-2	< 5.26E-08	< 5.01E-08	< 5.47E-08	< 5.63E-08	< 5.33E-08	< 5.28E-08	< 3.75E-08	< 7.03E-08	< 4.73E-08	< 4.51E-08	< 4.41E-08
tert-Butyl Mercaptan	75-66-1	< 6.58E-08	< 6.26E-08	< 6.84E-08	< 7.04E-08	< 6.67E-08	< 6.60E-08	< 4.69E-08	< 8.79E-08	< 5.91E-08	< 5.64E-08	< 5.52E-08
n-Propyl Mercaptan	107-03-9	< 5.26E-08	< 5.01E-08	< 5.47E-08	< 5.63E-08	< 5.33E-08	< 5.28E-08	< 3.75E-08	< 7.03E-08	< 4.73E-08	< 4.51E-08	< 4.41E-08
Ethyl Methyl Sulfide	624-89-5	< 5.26E-08	< 5.01E-08	< 5.47E-08	< 5.63E-08	< 5.33E-08	< 5.28E-08	< 3.75E-08	< 7.03E-08	< 4.73E-08	< 4.51E-08	< 4.41E-08
Thiophene	110-02-1	< 6.14E-08	< 5.85E-08	< 6.39E-08	< 6.57E-08	< 6.22E-08	< 6.16E-08	< 4.38E-08	< 8.21E-08	< 5.51E-08	< 5.26E-08	< 5.15E-08
Isobutyl Mercaptan	513-44-0	< 6.58E-08	< 6.26E-08	< 6.84E-08	< 7.04E-08	< 6.67E-08	< 6.60E-08	< 4.69E-08	< 8.79E-08	< 5.91E-08	< 5.64E-08	< 5.52E-08
Diethyl Sulfide	352-93-2	< 6.58E-08	< 6.26E-08	< 6.84E-08	< 7.04E-08	< 6.67E-08	< 6.60E-08	< 4.69E-08	< 8.79E-08	< 5.91E-08	< 5.64E-08	< 5.52E-08
n-Butyl Mercaptan	109-79-5	< 6.58E-08	< 6.26E-08	< 6.84E-08	< 7.04E-08	< 6.67E-08	< 6.60E-08	< 4.69E-08	< 8.79E-08	< 5.91E-08	< 5.64E-08	< 5.52E-08
Dimethyl Disulfide	624-92-0	< 3.38E-08	< 3.21E-08	< 3.51E-08	< 3.61E-08	< 3.42E-08	< 3.39E-08	< 2.41E-08	< 4.51E-08	< 3.03E-08	< 2.90E-08	< 2.83E-08
3-Methylthiophene	616-44-4	< 7.01E-08	< 6.68E-08	< 7.30E-08	< 7.51E-08	< 7.11E-08	< 7.04E-08	< 5.00E-08	< 9.38E-08	< 6.30E-08	< 6.02E-08	< 5.88E-08
Tetrahydrothiophene	110-01-0	< 6.14E-08	< 5.85E-08	< 6.39E-08	< 6.57E-08	< 6.22E-08	< 6.16E-08	< 4.38E-08	< 8.21E-08	< 5.51E-08	< 5.26E-08	< 5.15E-08
2-Ethylthiophene	872-55-9	< 7.89E-08	< 7.52E-08	< 8.21E-08	< 8.44E-08	< 8.00E-08	< 7.92E-08	< 5.63E-08	< 1.06E-07	< 7.09E-08	< 6.77E-08	< 6.62E-08
2,5-Dimethylthiophene	638-02-8	< 7.89E-08	< 7.52E-08	< 8.21E-08	< 8.44E-08	< 8.00E-08	< 7.92E-08	< 5.63E-08	< 1.06E-07	< 7.09E-08	< 6.77E-08	< 6.62E-08
Diethyl Disulfide	110-81-6	< 4.38E-08	< 4.18E-08	< 4.56E-08	< 4.69E-08	< 4.45E-08	< 4.40E-08	< 3.13E-08	< 5.86E-08	< 3.94E-08	< 3.76E-08	< 3.68E-08
TOTAL Detected		0.0	2.59E-08	0.0	8.04E-05	3.32E-07	1.23E-07	7.79E-06	2.20E-05	5.74E-05	0.0	1.22E-07
TOTAL with non-detects		< 1.04E-06	< 9.92E-07	< 1.08E-06	< 8.14E-05	< 1.36E-06	< 1.14E-06	< 8.52E-06	< 2.33E-05	< 5.82E-05	< 9.15E-07	< 9.74E-07

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 10 Autoclave Sulfur Summary
Blowdown

	CAS #	Cmpd. #4	Cmpd. #5	Cmpd. #6	Cmpd. #8	Cmpd. #9*	Cmpd. #9	Cmpd. #11	Cmpd. #15	Cmpd. #18	Cmpd. #21	Cmpd. #22
Sulfur (ug/m³)												
Carbonyl Sulfide	463-58-1	13900	14,700	12700	415,000	22500	16400	117,000	20,000	275010	3,550	13300
Methyl Mercaptan	74-93-1	< 1600	< 310	< 790	< 790	< 310	< 790	< 1,600	< 31	< 1600	< 160	< 790
Ethyl Mercaptan	75-08-1	< 2000	< 410	< 1000	< 1,000	< 410	< 1000	< 2,000	< 41	< 2000	< 200	< 1000
Dimethyl Sulfide	75-18-3	< 2000	< 410	< 1000	< 1,000	1770	< 1000	< 2,000	198	< 2000	2,180	< 1000
Carbon Disulfide	75-15-0	8540	47,400	8230	60,300,000	116000	30200	7,890,000	8,650,000	81000	22,700	43300
Isopropyl Mercaptan	75-33-2	< 2500	< 500	< 1200	< 1,200	< 500	< 1200	< 2,500	< 50	< 2500	< 250	< 1200
tert-Butyl Mercaptan	75-66-1	< 2900	< 590	< 1500	< 1,500	< 590	< 1500	< 2,900	< 59	< 2900	< 290	< 1500
n-Propyl Mercaptan	107-03-9	< 2500	< 500	< 1200	< 1,200	< 500	< 1200	< 2,500	< 50	< 2500	< 250	< 1200
Ethyl Methyl Sulfide	624-89-5	< 2500	< 500	< 1200	< 1,200	< 500	< 1200	< 2,500	< 50	< 2500	< 250	< 1200
Thiophene	110-02-1	< 2800	< 550	< 1400	< 1,400	< 550	< 1400	< 2,800	5,220	< 2800	< 280	< 1400
Isobutyl Mercaptan	513-44-0	< 2900	< 590	< 1500	< 1,500	< 590	< 1500	< 2,900	< 59	< 2900	< 290	< 1500
Diethyl Sulfide	352-93-2	< 2900	< 590	< 1500	< 1,500	< 590	< 1500	< 2,900	< 59	< 2900	< 290	< 1500
n-Butyl Mercaptan	109-79-5	< 2900	< 590	< 1500	< 1,500	< 590	< 1500	< 2,900	< 59	< 2900	< 290	< 1500
Dimethyl Disulfide	624-92-0	< 1500	2,560	< 770	< 770	2660	< 770	< 1,500	2,240	< 1500	1,840	< 770
3-Methylthiophene	616-44-4	< 3200	< 640	< 1600	< 1,600	< 640	< 1600	< 3,200	1,180	< 3200	< 320	< 1600
Tetrahydrothiophene	110-01-0	< 2900	< 580	< 1400	< 1,400	< 580	< 1400	< 2,900	< 58	< 2900	< 290	< 1400
2-Ethylthiophene	872-55-9	< 3700	< 730	< 1800	< 1,800	< 730	< 1800	< 3,700	< 73	< 3700	< 370	< 1800
2,5-Dimethylthiophene	638-02-8	< 3700	< 730	< 1800	< 1,800	< 730	< 1800	< 3,700	< 73	< 3700	< 370	< 1800
Diethyl Disulfide	110-81-6	< 2000	< 400	< 1000	< 1,000	< 400	< 1000	< 2,000	< 40	< 2000	< 200	< 1000
TOTAL Detected		22,440	64,660	20,930	60,715,000	142,930	46,600	8,007,000	8,678,838	356,010	30,270	56,600
TOTAL, with non-detects		< 66,940	< 73,280	< 43,090	<60,737,160	< 151,140	< 68,760	< 8,051,500	< 8,679,540	< 400,510	< 34,370	< 78,760
Sulfur (lbs/hr)												
Carbonyl Sulfide	463-58-1	7.37E-05	9.03E-05	6.77E-05	2.32E-03	1.21E-04	7.60E-05	4.15E-04	1.21E-04	1.44E-03	2.33E-05	6.60E-05
Methyl Mercaptan	74-93-1	< 8.48E-06	< 1.91E-06	< 4.21E-06	< 4.42E-06	< 1.67E-06	< 3.66E-06	< 5.67E-06	< 1.87E-07	< 8.37E-06	< 1.05E-06	< 3.92E-06
Ethyl Mercaptan	75-08-1	< 1.06E-05	< 2.52E-06	< 5.33E-06	< 5.59E-06	< 2.21E-06	< 4.64E-06	< 7.09E-06	< 2.47E-07	< 1.05E-05	< 1.31E-06	< 4.96E-06
Dimethyl Sulfide	75-18-3	< 1.06E-05	< 2.52E-06	< 5.33E-06	< 5.59E-06	9.56E-06	< 4.64E-06	< 7.09E-06	1.19E-06	< 1.05E-05	1.43E-05	< 4.96E-06
Carbon Disulfide	75-15-0	4.53E-05	2.91E-04	4.39E-05	3.37E-01	6.26E-04	1.40E-04	2.80E-02	5.21E-02	4.24E-04	1.49E-04	2.15E-04
Isopropyl Mercaptan	75-33-2	< 1.32E-05	< 3.07E-06	< 6.40E-06	< 6.71E-06	< 2.70E-06	< 5.56E-06	< 8.86E-06	< 3.01E-07	< 1.31E-05	< 1.64E-06	< 5.95E-06
tert-Butyl Mercaptan	75-66-1	< 1.54E-05	< 3.63E-06	< 8.00E-06	< 8.39E-06	< 3.19E-06	< 6.95E-06	< 1.03E-05	< 3.56E-07	< 1.52E-05	< 1.90E-06	< 7.44E-06
n-Propyl Mercaptan	107-03-9	< 1.32E-05	< 3.07E-06	< 6.40E-06	< 6.71E-06	< 2.70E-06	< 5.56E-06	< 8.86E-06	< 3.01E-07	< 1.31E-05	< 1.64E-06	< 5.95E-06
Ethyl Methyl Sulfide	624-89-5	< 1.32E-05	< 3.07E-06	< 6.40E-06	< 6.71E-06	< 2.70E-06	< 5.56E-06	< 8.86E-06	< 3.01E-07	< 1.31E-05	< 1.64E-06	< 5.95E-06
Thiophene	110-02-1	< 1.48E-05	< 3.38E-06	< 7.46E-06	< 7.83E-06	< 2.97E-06	< 6.49E-06	< 9.92E-06	3.15E-05	< 1.46E-05	< 1.84E-06	< 6.95E-06
Isobutyl Mercaptan	513-44-0	< 1.54E-05	< 3.63E-06	< 8.00E-06	< 8.39E-06	< 3.19E-06	< 6.95E-06	< 1.03E-05	< 3.56E-07	< 1.52E-05	< 1.90E-06	< 7.44E-06
Diethyl Sulfide	352-93-2	< 1.54E-05	< 3.63E-06	< 8.00E-06	< 8.39E-06	< 3.19E-06	< 6.95E-06	< 1.03E-05	< 3.56E-07	< 1.52E-05	< 1.90E-06	< 7.44E-06
n-Butyl Mercaptan	109-79-5	< 1.54E-05	< 3.63E-06	< 8.00E-06	< 8.39E-06	< 3.19E-06	< 6.95E-06	< 1.03E-05	< 3.56E-07	< 1.52E-05	< 1.90E-06	< 7.44E-06
Dimethyl Disulfide	624-92-0	< 7.95E-06	1.57E-05	< 4.10E-06	< 4.31E-06	1.44E-05	< 3.57E-06	< 5.31E-06	1.35E-05	< 7.85E-06	1.21E-05	< 3.82E-06
3-Methylthiophene	616-44-4	< 1.70E-05	< 3.93E-06	< 8.53E-06	< 8.95E-06	< 3.46E-06	< 7.42E-06	< 1.13E-05	7.11E-06	< 1.67E-05	< 2.10E-06	< 7.94E-06
Tetrahydrothiophene	110-01-0	< 1.54E-05	< 3.56E-06	< 7.46E-06	< 7.83E-06	< 3.13E-06	< 6.49E-06	< 1.03E-05	< 3.50E-07	< 1.52E-05	< 1.90E-06	< 6.95E-06
2-Ethylthiophene	872-55-9	< 1.96E-05	< 4.49E-06	< 9.59E-06	< 1.01E-05	< 3.94E-06	< 8.34E-06	< 1.31E-05	< 4.40E-07	< 1.94E-05	< 2.43E-06	< 8.93E-06
2,5-Dimethylthiophene	638-02-8	< 1.96E-05	< 4.49E-06	< 9.59E-06	< 1.01E-05	< 3.94E-06	< 8.34E-06	< 1.31E-05	< 4.40E-07	< 1.94E-05	< 2.43E-06	< 8.93E-06
Diethyl Disulfide	110-81-6	< 1.06E-05	< 2.46E-06	< 5.33E-06	< 5.59E-06	< 2.16E-06	< 4.64E-06	< 7.09E-06	< 2.41E-07	< 1.05E-05	< 1.31E-06	< 4.96E-06
TOTAL Detected		1.19E-04	3.97E-04	1.12E-04	3.40E-01	7.72E-04	2.16E-04	2.84E-02	5.23E-02	1.86E-03	1.98E-04	2.81E-04
TOTAL, with non-detects		< 3.55E-04	< 4.50E-04	< 2.30E-04	< 3.40E-01	< 8.16E-04	< 3.19E-04	< 2.85E-02	< 5.23E-02	< 2.10E-03	< 2.25E-04	< 3.91E-04
Sulfur (lbs/lb rubber)												
Carbonyl Sulfide	463-58-1	4.15E-07	4.24E-07	5.03E-07	1.89E-05	7.71E-07	4.75E-07	1.99E-06	4.06E-07	8.57E-06	1.05E-07	3.99E-07
Methyl Mercaptan	74-93-1	< 4.77E-08	< 8.95E-09	< 3.13E-08	< 3.60E-08	< 1.06E-08	< 2.29E-08	< 2.72E-08	< 6.30E-10	< 4.99E-08	< 4.73E-09	< 2.37E-08
Ethyl Mercaptan	75-08-1	< 5.97E-08	< 1.18E-08	< 3.96E-08	< 4.56E-08	< 1.40E-08	< 2.90E-08	< 3.40E-08	< 8.33E-10	< 6.23E-08	< 5.91E-09	< 3.00E-08
Dimethyl Sulfide	75-18-3	< 5.97E-08	< 1.18E-08	< 3.96E-08	< 4.56E-08	6.06E-08	< 2.90E-08	< 3.40E-08	4.02E-09	< 6.23E-08	6.44E-08	< 3.00E-08
Carbon Disulfide	75-15-0	2.55E-07	1.37E-06	3.26E-07	2.75E-03	3.97E-06	8.75E-07	1.34E-04	1.76E-04	2.52E-06	6.71E-07	1.30E-06
Isopropyl Mercaptan	75-33-2	< 7.46E-08	< 1.44E-08	< 4.75E-08	< 5.47E-08	< 1.71E-08	< 3.48E-08	< 4.25E-08	< 1.02E-09	< 7.79E-08	< 7.39E-09	< 3.60E-08
tert-Butyl Mercaptan	75-66-1	< 8.65E-08	< 1.70E-08	< 5.94E-08	< 6.84E-08	< 2.02E-08	< 4.35E-08	< 4.93E-08	< 1.20E-09	< 9.04E-08	< 8.57E-09	< 4.50E-08
n-Propyl Mercaptan	107-03-9	< 7.46E-08	< 1.44E-08	< 4.75E-08	< 5.47E-08	< 1.71E-08	< 3.48E-08	< 4.25E-08	< 1.02E-09	< 7.79E-08	< 7.39E-09	< 3.60E-08
Ethyl Methyl Sulfide	624-89-5	< 7.46E-08	< 1.44E-08	< 4.75E-08	< 5.47E-08	< 1.71E-08	< 3.48E-08	< 4.25E-08	< 1.02E-09	< 7.79E-08	< 7.39E-09	< 3.60E-08
Thiophene	110-02-1	< 8.35E-08	< 1.59E-08	< 5.54E-08	< 6.39E-08	< 1.88E-08	< 4.06E-08	< 4.76E-08	1.06E-07	< 8.72E-08	< 8.27E-09	< 4.20E-08
Isobutyl Mercaptan	513-44-0	< 8.65E-08	< 1.70E-08	< 5.94E-08	< 6.84E-08	< 2.02E-08	< 4.35E-08	< 4.93E-08	< 1.20E-09	< 9.04E-08	< 8.57E-09	< 4.50E-08
Diethyl Sulfide	352-93-2	< 8.65E-08	< 1.70E-08	< 5.94E-08	< 6.84E-08	< 2.02E-08	< 4.35E-08	< 4.93E-08	< 1.20E-09	< 9.04E-08	< 8.57E-09	< 4.50E-08
n-Butyl Mercaptan	109-79-5	< 8.65E-08	< 1.70E-08	< 5.94E-08	< 6.84E-08	< 2.02E-08	< 4.35E-08	< 4.93E-08	< 1.20E-09	< 9.04E-08	< 8.57E-09	< 4.50E-08
Dimethyl Disulfide	624-92-0	< 4.47E-08	7.39E-08	< 3.05E-08	< 3.51E-08	9.11E-08	< 2.23E-08	< 2.55E-08	4.55E-08	< 4.67E-08	5.44E-08	< 2.31E-08
3-Methylthiophene	616-44-4	< 9.54E-08	< 1.85E-08	< 6.33E-08	< 7.30E-08	< 2.19E-08	< 4.64E-08	< 5.44E-08	2.40E-08	< 9.97E-08	< 9.45E-09	< 4.80E-08
Tetrahydrothiophene	110-01-0	< 8.65E-08	< 1.67E-08	< 5.54E-08	< 6.39E-08	< 1.99E-08	< 4.06E-08	< 4.93E-08	< 1.18E-09	< 9.04E-08	< 8.57E-09	< 4.20E-08
2-Ethylthiophene	872-55-9	< 1.10E-07	< 2.11E-08	< 7.13E-08	< 8.21E-08	< 2.50E-08	< 5.22E-08	< 6.29E-08	< 1.48E-09	< 1.15E-07	< 1.09E-08	< 5.40E-08
2,5-Dimethylthiophene	638-02-8	< 1.10E-07	< 2.11E-08	< 7.13E-08	< 8.21E-08	< 2.50E-08	< 5.22E-08	< 6.29E-08	< 1.48E-09	< 1.15E-07	< 1.09E-08	< 5.40E-08
Diethyl Disulfide	110-81-6	< 5.97E-08	< 1.15E-08	< 3.96E-08	< 4.56E-08	< 1.37E-08	< 2.90E-08	< 3.40E-08	< 8.12E-10	< 6.23E-08	< 5.91E-09	< 3.00E-08
TOTAL Detected		6.69E-07	1.87E-06	8.29E-07	2.77E-03	4.90E-06	1.35E-05	1.36E-04	1.76E-04	1.11E-05	8.94E-07	1.70E-06
TOTAL, with non-detects		< 2.00E-06	< 2.12E-06	< 1.71E-06	< 2.77E-03	< 5.18E-06	< 1.99E-05	< 1.37E-04	< 1.76E-04	< 1.25E-05	< 1.07E-06	< 2.36E-06

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 11 Autoclave Amines Results

	Cmpd.#4	Cmpd.#5	Cmpd.#6	Cmpd.#8	Cmpd.#9*	Cmpd.#9	Cmpd.#11	Cmpd.#15	Cmpd.#18	Cmpd.#21	Cmpd.#22
Concentration (µg/m³)											
Trimethylamine	< 1.63	0.47	< 1.73	0.84	< 2.66	< 1.78	< 1.92	< 1.45	5.53	< 1.42	< 1.86
Dimethylamine	< 1.63	< 1.27	< 1.73	9.43	< 2.66	< 1.78	< 1.92	< 1.45	2.73	< 1.42	4.80
Diethylamine	< 1.63	< 1.27	< 1.73	< 1.54	< 2.66	< 1.78	< 1.92	< 1.45	< 9.38	< 1.42	< 1.86
Butylamine	< 1.63	< 1.27	< 1.73	< 1.54	< 2.66	< 1.78	< 1.92	< 1.45	< 9.38	< 1.42	< 1.86
Cyclohexylamine	< 1.63	< 1.27	< 1.73	< 1.54	< 2.66	< 1.78	< 1.92	< 1.45	< 9.38	< 1.42	< 1.86
Diphenylamine	< 1.63	< 1.27	< 1.73	< 1.54	< 2.66	< 1.78	< 1.92	< 1.45	< 9.38	< 1.42	< 1.86
Total Detected	0	0.47	0	10.27	0	0	0	0	8.26	0	4.80
Total with non-detects	< 9.79	< 6.84	< 10.37	< 16.42	< 15.96	< 10.66	< 11.54	< 8.72	< 45.76	< 8.50	< 14.08
Emission Rate (lb/hr)											
Trimethylamine	< 6.17E-07	1.53E-07	< 6.61E-07	2.74E-07	< 1.02E-06	< 6.79E-07	< 6.27E-07	< 8.71E-07	2.11E-06	< 4.62E-07	< 7.03E-07
Dimethylamine	< 6.17E-07	< 4.15E-07	< 6.61E-07	3.07E-06	< 1.02E-06	< 6.79E-07	< 6.27E-07	< 8.71E-07	1.04E-06	< 4.62E-07	1.81E-06
Diethylamine	< 6.17E-07	< 4.15E-07	< 6.61E-07	< 5.01E-07	< 1.02E-06	< 6.79E-07	< 6.27E-07	< 8.71E-07	< 3.58E-06	< 4.62E-07	< 7.03E-07
Butylamine	< 6.17E-07	< 4.15E-07	< 6.61E-07	< 5.01E-07	< 1.02E-06	< 6.79E-07	< 6.27E-07	< 8.71E-07	< 3.58E-06	< 4.62E-07	< 7.03E-07
Cyclohexylamine	< 6.17E-07	< 4.15E-07	< 6.61E-07	< 5.01E-07	< 1.02E-06	< 6.79E-07	< 6.27E-07	< 8.71E-07	< 3.58E-06	< 4.62E-07	< 7.03E-07
Diphenylamine	< 6.17E-07	< 4.15E-07	< 6.61E-07	< 5.01E-07	< 1.02E-06	< 6.79E-07	< 6.27E-07	< 8.71E-07	< 3.58E-06	< 4.62E-07	< 7.03E-07
Total Detected	0.0	1.53E-07	0.0	3.35E-06	0.0	0.0	0.0	0.0	3.16E-06	0.0	1.81E-06
Total with non-detects	< 3.70E-06	< 2.23E-06	< 3.96E-06	< 5.35E-06	< 6.10E-06	< 4.07E-06	< 3.76E-06	< 5.22E-06	< 1.75E-05	< 2.77E-06	< 5.33E-06
Emission Rate (lb/lb rubber)											
Trimethylamine	< 7.15E-09	1.96E-09	< 7.89E-09	4.83E-09	< 1.18E-08	< 7.82E-09	< 6.01E-09	< 8.52E-09	2.18E-08	< 5.32E-09	< 6.83E-09
Dimethylamine	< 7.15E-09	< 5.32E-09	< 7.89E-09	5.41E-08	< 1.18E-08	< 7.82E-09	< 6.01E-09	< 8.52E-09	1.08E-08	< 5.32E-09	1.76E-08
Diethylamine	< 7.15E-09	< 5.32E-09	< 7.89E-09	< 8.81E-09	< 1.18E-08	< 7.82E-09	< 6.01E-09	< 8.52E-09	< 3.69E-08	< 5.32E-09	< 6.83E-09
Butylamine	< 7.15E-09	< 5.32E-09	< 7.89E-09	< 8.81E-09	< 1.18E-08	< 7.82E-09	< 6.01E-09	< 8.52E-09	< 3.69E-08	< 5.32E-09	< 6.83E-09
Cyclohexylamine	< 7.15E-09	< 5.32E-09	< 7.89E-09	< 8.81E-09	< 1.18E-08	< 7.82E-09	< 6.01E-09	< 8.52E-09	< 3.69E-08	< 5.32E-09	< 6.83E-09
Diphenylamine	< 7.15E-09	< 5.32E-09	< 7.89E-09	< 8.81E-09	< 1.18E-08	< 7.82E-09	< 6.01E-09	< 8.52E-09	< 3.69E-08	< 5.32E-09	< 6.83E-09
Total Detected	0.0	1.96E-09	0.0	5.89E-08	0.0	0.0	0.0	0.0	3.25E-08	0.0	1.76E-08
Total with non-detects	< 4.29E-08	< 2.86E-08	< 4.73E-08	< 9.42E-08	< 7.10E-08	< 4.69E-08	< 3.61E-08	< 5.11E-08	< 1.80E-07	< 3.19E-08	< 5.18E-08

* - Extruded, all other compounds are unextruded

TRC

Table D.1 - 12 Autoclave POM Train Results
Cooldown

	Cmpd. #4	Cmpd. #5	Cmpd. #6	Cmpd. #8	Cmpd. #9 *	Cmpd. #9	Cmpd. #11	Cmpd. #15	Cmpd. #18	Cmpd. #21	Cmpd. #22
POM (mg) **	68.0	68.1	58.3	3.8	4.8	35.2	30.3	0.6	14.7	6.6	2.0
Sample Volume (dscf)	104.055	103.202	89.923	90	74.911	103.592	78.069	56.648	90.103	89.939	88.478
Flowrate (dscfm)	102	87	102	87	102	101	87	160	102	87	101
POM (mg/m³)	23.08	23.30	22.89	1.49	2.26	12.00	13.70	0.37	5.76	2.59	0.80
POM (lb/hr)	8.82E-03	7.59E-03	8.75E-03	4.86E-04	8.65E-04	4.54E-03	4.47E-03	2.24E-04	2.20E-03	8.44E-04	3.02E-04
Run Time (min)	105	120	90	105	75	105	90	90	90	105	90
Total Rubber Cure (lbs)	151.02	156.12	125.66	104.21	94.54	152.00	156.32	153.36	145.52	151.68	154.30
POM (lb/lb rubber)	1.02E-04	9.73E-05	1.04E-04	8.16E-06	1.14E-05	5.23E-05	4.29E-05	2.19E-06	2.27E-05	9.74E-06	2.94E-06

* - Extruded, all other compounds are unextruded

** - Blank Corrected values.

TRC

SECTION E

PLATEN PRESS

TRC

Section E

Platen Press

Table Number	Title	No. of Pages
E.1-1	Platen Press Summary	1
E.1-2	Platen Press Speciated Semivolatiles Summary	6
E.1-3	Platen Press Speciated Volatiles Summary	6
E.1-4	Platen Press Sulfur Summary	3
E.1-5	Platen Press POM Train Results	1

TRC

Table E.1 - 1 Platen Press

Summary Table

	Cmpd.#1	Cmpd.#2	Cmpd.#3	Cmpd.#5	Cmpd.#7	Cmpd.#9	Cmpd.#10	Cmpd.#11	Cmpd.#12	Cmpd.#13	Cmpd.#14	Cmpd.#16	Cmpd.#17	Cmpd.#19	Cmpd.#20	Cmpd.#22	Cmpd.#23
Number	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Initial Weight (lbs)	0.994	1.009	1.004	1.027	1.009	1.030	1.001	1.520	1.018	1.055	1.011	1.004	1.002	1.013	1.015	1.280	1.013
Final Weight (lbs)	0.993	1.007	1.000	1.023	1.009	1.027	0.998	1.518	1.015	1.051	1.007	1.004	0.996	1.009	1.013	1.277	1.008
Total Rubber Processed (lbs/hr)	0.50	0.50	0.50	0.50	0.50	0.49	0.50	0.76	0.52	0.53	0.49	0.50	0.50	0.51	0.53	0.62	0.51
Total VOC (ppm/run)	1.4	0.7	1.8	1.0	0.4	2.5	1.5	0.5	1.2	2.6	0.9	1.4	10.8	12.4	1.1	0.9	0.5
Total VOC (lbs/hr)	1.54E-04	7.60E-05	1.89E-04	2.86E-04	4.71E-05	8.63E-04	1.58E-04	1.81E-04	1.29E-04	2.75E-04	9.74E-05	1.46E-04	1.13E-03	1.23E-03	1.15E-04	3.00E-04	5.70E-05
Total VOC (lbs/lb rubber)	3.10E-04	1.51E-04	3.77E-04	5.56E-04	9.34E-05	1.68E-03	3.15E-04	2.35E-04	2.53E-04	5.21E-04	1.93E-04	2.91E-04	2.25E-03	2.43E-03	2.26E-04	4.68E-04	1.12E-04
Standard Deviation (lbs/lb rubber)	1.47E-04	5.93E-05	2.45E-04	6.47E-04	8.89E-05	3.04E-03	2.07E-04	2.96E-04	1.77E-04	4.37E-04	1.36E-04	2.82E-04	2.59E-03	3.42E-03	1.38E-04	5.79E-04	5.17E-05
Speciated Total Semivol (µg/m³)-detected	34.99	60.03	60.45	79.54	66.61	1225.11	47.69	339.44	59.96	74.40	86.41	81.44	3320.55	181.45	38.72	47.14	113.85
Speciated Total Semivol (lbs/hr)-detected	5.64E-06	9.44E-06	9.51E-06	1.31E-05	1.07E-05	2.29E-04	7.50E-06	6.36E-05	9.43E-06	1.17E-05	1.36E-05	1.28E-05	5.22E-04	2.72E-05	6.24E-06	8.83E-06	1.79E-05
Speciated Total Semivol (lbs/lb rubber)-detected	1.13E-05	1.89E-05	1.90E-05	2.61E-05	2.15E-05	4.68E-04	1.50E-05	8.28E-05	1.81E-05	2.21E-05	2.77E-05	2.56E-05	1.04E-03	5.23E-05	1.18E-05	1.42E-05	3.51E-05
Speciated Total Semivol (lbs/lb rubber)-with non-detects	< 5.02E-05	< 3.32E-05	< 3.56E-05	< 1.14E-04	< 6.06E-05	< 4.92E-04	< 2.70E-05	< 1.02E-04	< 3.46E-05	< 4.09E-05	< 3.42E-05	< 3.91E-05	< 1.05E-03	< 7.23E-05	< 1.76E-05	< 3.73E-05	< 4.90E-05
Speciated Total Vol. (µg/m³)-detected	4678.77	4040.61	8802.70	1335.48	1982.93	13785.24	8818.06	9534.66	8345.52	8894.72	11927.28	6021.86	9003.50	11924.10	9217.43	8600.69	4242.29
Speciated Total Vol. (lbs/hr)-detected	7.54E-04	6.36E-04	1.38E-03	2.23E-04	3.19E-04	2.58E-03	1.39E-03	1.79E-03	1.31E-03	1.40E-03	1.88E-03	9.47E-04	1.42E-03	1.79E-03	1.48E-03	1.61E-03	6.67E-04
Speciated Total Vol. (lbs/lb rubber)-detected	1.51E-03	1.27E-03	2.77E-03	4.47E-04	6.39E-04	5.27E-03	2.77E-03	2.36E-03	2.53E-03	2.64E-03	3.83E-03	1.89E-03	2.83E-03	3.44E-03	2.80E-03	2.58E-03	1.31E-03
Speciated Total Vol. (lbs/lb rubber)-with non-detects	< 1.76E-03	< 1.73E-03	< 3.02E-03	< 6.59E-04	< 1.65E-03	< 5.57E-03	< 3.04E-03	< 2.52E-03	< 2.77E-03	< 3.11E-03	< 4.09E-03	< 2.15E-03	< 3.10E-03	< 3.86E-03	< 3.04E-03	< 3.16E-03	< 1.56E-03
Total Sulfur (µg/m³)-detected	0.0	1446.0	0.0	0.0	0.0	0.0	3080.0	1070.0	1675.0	2432.0	2144.0	0.0	0.0	0.0	0.0	0.0	104.8
Total Sulfur (lbs/hr)-detected	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	2.00E-04	2.64E-04	3.83E-04	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
Total Sulfur (lbs/lb rubber)-detected	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-04	2.65E-04	5.07E-04	7.22E-04	6.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
Total Sulfur (lbs/lb rubber)-with non-detects	< 7.66E-05	< 5.95E-04	< 7.48E-05	< 1.08E-04	< 1.52E-04	< 9.08E-05	< 1.04E-03	< 3.42E-04	< 5.74E-04	< 7.88E-04	< 7.60E-04	< 7.48E-05	< 7.48E-05	< 6.98E-05	< 7.22E-05	< 9.58E-05	< 1.01E-04
POM Concentration (mg/m³)	1.73	0.33	0.48	0.39	0.99	0.23	0.84	0.36	2.06	0.38	0.09	1.03	0.15	0.18	0.59	0.37	1.45
POM (lb/hr)	2.79E-04	5.16E-05	7.52E-05	6.57E-05	1.59E-04	4.35E-05	1.32E-04	6.83E-05	3.24E-04	6.01E-05	1.49E-05	1.63E-04	2.29E-05	2.69E-05	9.51E-05	7.00E-05	2.28E-04
POM (lbs/lb rubber)	5.59E-04	1.03E-04	1.50E-04	1.30E-04	3.19E-04	8.87E-05	2.63E-04	8.98E-05	6.22E-04	1.13E-04	3.04E-05	3.26E-04	4.58E-05	5.27E-05	1.79E-04	1.10E-04	4.46E-04

TRC

Table E.1 - 2 Platen Press

Speciated Semivolatiles

	CAS #	Cmpd. #1 pg/m³	Cmpd. #2 pg/m³	Cmpd. #3 pg/m³	Cmpd. #5 pg/m³	Cmpd. #7 pg/m³	Cmpd. #9 pg/m³	Cmpd. #10 pg/m³	Cmpd. #11 pg/m³	Cmpd. #12 pg/m³	Cmpd. #13 pg/m³	Cmpd. #14 pg/m³	Cmpd. #16 pg/m³	Cmpd. #17 pg/m³	Cmpd. #19 pg/m³	Cmpd. #20 pg/m³	Cmpd. #22 pg/m³	Cmpd. #23 pg/m³
Pyridine	110-86-1	< 1.09	< 0.38	< 0.45	< 0.91	< 1.11	< 0.71	< 0.36	< 0.85	< 0.44	< 0.50	< 0.26	< 0.41	< 0.25	< 1.08	< 0.26	< 0.89	< 0.38
Phenol	108-95-2	1.90	1.71	1.65	2.94	1.31	3.35	1.33	1.83	1.77	2.62	8.30	1.65	< 0.11	< 0.50	1.93	1.84	1.28
bis(2-Chloroethyl)ether	111-44-4	< 0.90	< 0.32	< 0.39	< 0.68	< 0.91	< 0.65	< 0.31	< 0.64	< 0.38	< 0.43	< 0.16	< 0.36	< 0.15	< 0.63	< 0.16	< 0.73	< 0.32
2-Chlorophenol	95-57-8	< 0.85	< 0.30	< 0.36	< 0.53	< 0.86	< 0.48	< 0.29	< 0.50	< 0.35	< 0.40	< 0.14	< 0.33	< 0.14	< 0.55	< 0.15	< 0.56	< 0.31
1,3-Dichlorobenzene	541-73-1	< 0.83	< 0.29	< 0.35	< 0.50	< 0.84	< 0.46	< 0.27	< 0.47	< 0.34	< 0.38	< 0.13	< 0.32	< 0.13	< 0.44	< 0.14	< 0.52	< 0.29
1,4-Dichlorobenzene	106-46-7	0.32	0.24	0.18	< 0.49	0.17	< 0.46	0.18	< 0.46	0.19	< 0.37	0.28	0.29	0.17	0.17	0.30	< 0.52	0.26
1,2-Dichlorobenzene	95-50-1	< 0.86	< 0.31	< 0.36	< 0.53	< 0.87	< 0.50	< 0.29	< 0.50	< 0.36	< 0.40	< 0.14	< 0.34	< 0.14	< 0.47	< 0.15	< 0.57	< 0.31
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.40	< 0.49	< 0.59	< 0.60	< 1.43	< 0.57	< 0.46	< 0.56	< 0.57	< 0.64	< 0.25	< 0.54	< 0.24	< 0.52	< 0.25	< 0.62	< 0.49
Benzyl alcohol	100-51-6	< 1.40	0.66	0.79	< 0.71	0.42	< 0.81	0.63	< 0.43	1.46	1.02	0.98	1.17	< 0.22	0.67	1.19	< 0.81	0.74
2-Methylphenol	95-48-7	< 1.02	< 0.37	0.09	< 0.64	< 1.03	< 0.60	< 0.35	< 0.60	< 0.43	< 0.48	< 0.16	< 0.41	< 0.16	< 0.71	0.05	< 0.68	< 0.37
3/4-Methylphenol	108-39-4/106-44-5	< 0.96	< 0.34	0.31	< 0.61	< 0.98	< 0.57	0.16	< 0.57	< 0.40	< 0.45	< 0.15	0.23	< 0.15	< 0.67	0.22	< 0.65	0.18
N-Nitroso-di-n-propylamine	621-64-7	< 1.55	< 0.57	< 0.69	< 0.94	< 1.57	< 1.07	< 0.54	< 0.89	< 0.67	< 0.75	< 0.28	< 0.63	< 0.27	< 0.76	< 0.29	< 1.08	< 0.57
Hexachloroethane	67-72-1	< 1.66	< 0.59	< 0.71	< 1.00	< 1.69	< 0.94	< 0.56	< 0.94	< 0.69	< 0.78	< 0.27	< 0.65	< 0.26	< 0.92	< 0.28	< 1.08	< 0.59
Nitrobenzene	98-95-3	< 0.82	< 0.32	< 0.39	< 0.53	< 0.85	< 0.54	< 0.29	< 0.49	< 0.39	< 0.41	< 0.15	< 0.35	< 0.15	< 0.40	< 0.15	< 0.60	< 0.31
Isophorone	78-59-1	< 0.45	< 0.18	< 0.22	< 0.29	< 0.47	< 0.29	< 0.16	< 0.27	< 0.22	< 0.23	< 0.09	< 0.20	< 0.09	< 0.25	< 0.08	< 0.33	< 0.17
2-Nitrophenol	88-75-5	< 1.46	< 0.58	< 0.72	< 0.88	< 1.51	< 0.87	< 0.53	< 0.81	< 0.70	< 0.74	< 0.25	< 0.64	< 0.25	< 0.92	< 0.25	< 0.99	< 0.56
2,4-Dimethylphenol	105-67-9	< 0.93	< 0.37	< 0.45	< 0.62	< 0.97	< 0.58	< 0.34	< 0.57	< 0.45	< 0.47	< 0.16	< 0.41	< 0.16	< 0.57	< 0.15	< 0.67	< 0.36
bis(2-Chloroethoxy)methane	111-91-1	< 0.69	< 0.28	< 0.35	< 0.53	< 0.72	< 0.49	< 0.25	< 0.49	< 0.34	< 0.35	< 0.13	< 0.31	< 0.13	< 0.48	< 0.13	< 0.57	< 0.27
Benzoic acid	65-85-0	< 1.71	12.93	6.61	< 3.04	1.35	< 0.81	3.75	< 3.03	< 0.73	< 0.77	8.57	12.31	11.03	96.00	7.26	< 1.14	1.90
2,4-Dichlorophenol	120-83-2	< 1.07	< 0.44	< 0.54	< 0.67	< 1.11	< 0.58	< 0.41	< 0.62	< 0.53	< 0.56	< 0.17	< 0.49	< 0.17	< 0.62	< 0.17	< 0.71	< 0.43
1,2,4-Trichlorobenzene	120-82-1	< 1.09	< 0.43	< 0.53	< 0.59	< 1.13	< 0.53	< 0.40	< 0.54	< 0.52	< 0.55	< 0.16	< 0.48	0.05	< 0.48	< 0.16	< 0.64	< 0.42
Naphthalene	91-20-3	1.02	1.46	1.84	4.76	7.35	10.56	0.89	6.54	1.23	1.12	1.90	1.11	1.66		1.22	6.35	1.20
4-Chloroaniline	106-47-8	< 0.66	< 0.27	< 0.33	< 0.45	< 0.69	< 0.40	< 0.25	< 0.42	< 0.32	< 0.34	< 0.12	< 0.29	2.29	< 0.46	< 0.12	< 0.52	< 0.26
Hexachlorobutadiene	87-68-3	< 1.91	< 0.76	< 0.93	< 1.00	< 1.98	1.03	< 0.69	< 0.92	< 0.92	< 0.96	< 0.32	< 0.83	< 0.32	< 0.65	< 0.31	< 1.11	< 0.73
4-Chloro-3-methylphenol	59-50-7	< 1.00	< 0.40	< 0.49	< 0.65	< 1.04	< 0.57	< 0.37	< 0.60	< 0.49	< 0.51	< 0.17	< 0.44	< 0.17	< 0.65	< 0.17	< 0.71	< 0.39
2-Methylnaphthalene	91-57-6	0.54	0.71	0.68	5.95	0.50	0.62	0.37	0.74	0.74	0.31	0.67	0.46	0.45	0.38	0.50	1.68	0.37
Hexachlorocyclopentadiene	77-47-4	< 1.56	< 0.66	< 0.90	< 0.99	< 1.59	< 0.80	< 0.62	< 0.93	< 0.83	< 0.86	< 0.27	< 0.70	< 0.28	< 0.69	< 0.27	< 1.12	< 0.65
2,4,6-Trichlorophenol	88-06-2	< 1.81	< 0.71	< 0.98	< 0.89	< 1.83	< 0.76	< 0.67	< 0.84	< 0.90	< 0.93	< 0.29	< 0.75	< 0.31	< 0.80	< 0.29	< 0.96	< 0.70
2,4,5-Trichlorophenol	95-95-4	< 1.66	< 0.65	< 0.90	< 0.84	< 1.69	< 0.67	< 0.61	< 0.79	< 0.82	< 0.85	< 0.28	< 0.69	< 0.29	< 0.79	< 0.27	< 0.88	< 0.64
2-Chloronaphthalene	91-58-7	< 0.54	< 0.22	< 0.30	< 0.29	< 0.55	< 0.28	< 0.20	< 0.21	< 0.27	< 0.28	0.12	< 0.23	< 0.09	< 0.33	0.08	< 0.22	< 0.21
2-Nitroaniline	88-74-4	< 1.87	< 0.70	< 0.96	< 0.94	< 1.89	< 0.91	< 0.65	< 0.88	< 0.88	< 0.91	< 0.32	< 0.74	< 0.33	< 0.87	< 0.31	< 1.00	< 0.69
Dimethylphthalate	131-11-3	< 0.50	0.25	< 0.28	0.55	< 0.51	0.18	< 0.19	< 0.24	< 0.25	< 0.26	0.21	0.18	0.20	< 0.28	< 0.07	0.33	< 0.20
2,6-Dinitrotoluene	606-20-2	< 2.04	< 0.83	< 1.15	< 0.98	< 2.08	< 0.91	< 0.78	< 0.92	< 1.05	< 1.09	< 0.30	< 0.88	< 0.31	< 1.08	< 0.29	< 1.01	< 0.82
2,4-Dinitrotoluene	121-14-2	< 1.58	< 0.63	< 0.88	< 0.73	< 1.60	< 0.63	< 0.59	< 0.68	< 0.80	< 0.83	< 0.24	< 0.67	< 0.24	< 0.84	< 0.23	< 0.70	< 0.63
Acenaphthylene	208-96-8	< 0.34	< 0.13	0.45	< 0.17	< 0.34	< 0.16	< 0.12	< 0.16	< 0.17	< 0.18	< 0.05	< 0.14	< 0.06	< 0.20	< 0.05	0.35	< 0.13
3-Nitroaniline	99-09-2	< 1.53	< 0.60	< 0.83	< 0.89	< 1.55	< 0.74	< 0.56	< 0.84	< 0.76	< 0.79	< 0.29	< 0.64	< 0.30	< 1.19	< 0.28	< 0.92	< 0.60
Acenaphthene	83-32-9	< 0.54	< 0.22	0.11	0.22	< 0.55	0.14	0.06	< 0.21	0.12	< 0.29	< 0.09	< 0.24	< 0.10	< 0.36	0.08	0.16	0.08
2,4-Dinitrophenol	105-67-9	< 4.80	< 1.65	< 2.27	< 2.23	< 4.88	< 2.69	< 1.54	< 2.09	< 2.09	< 2.16	< 0.70	< 1.75	< 0.73	< 2.67	< 0.68	< 1.98	< 1.63
4-Nitrophenol	100-02-7	< 3.00	< 1.15	< 1.58	< 1.73	< 3.05	< 1.63	< 1.07	< 1.61	< 1.46	< 1.50	< 0.56	< 1.22	< 0.59	< 1.80	< 0.55	< 1.51	< 1.13
Dibenzofuran	132-64-9	0.20	0.16	0.49	< 0.19	< 0.41	< 0.18	0.09	< 0.18	0.19	0.11	0.18	0.13	0.11	< 0.23	0.13	< 0.21	0.14
Diethylphthalate	84-66-2	2.74	1.66	1.39	1.37	2.51	0.89	1.43	0.99	3.03	1.01	2.53	2.07	1.35	0.50	1.21	0.84	1.94
4-Chlorophenyl-phenylether	70005-72-3	< 1.24	< 0.52	< 0.71	< 0.52	< 1.26	< 0.44	< 0.48	< 0.49	< 0.66	< 0.68	< 0.20	< 0.55	< 0.22	< 0.50	< 0.20	< 0.55	< 0.51
Fluorene	86-73-7	0.10	0.13	0.17	0.38	< 0.56	< 0.25	< 0.21	< 0.23	< 0.29	< 0.30	< 0.09	< 0.24	0.08	< 0.29	0.07	< 0.24	< 0.23
4-Nitroaniline	100-01-6	< 1.50	< 0.64	< 0.88	< 0.86	< 1.53	< 0.79	< 0.60	< 0.80	< 0.81	< 0.84	< 0.32	< 0.68	< 0.34	< 1.29	< 0.31	< 0.79	< 0.63
4,6-Dinitro-2-methylphenol	534-52-1	< 3.07	< 1.26	< 1.80	< 1.75	< 2.99	< 1.61	< 1.16	< 1.65	< 1.52	< 1.68	< 0.54	< 1.29	< 0.58	< 1.65	< 0.52	< 1.58	< 1.27
4-Bromophenyl-phenylether	101-55-3	< 2.03	< 0.87	< 1.25	< 1.11	< 1.97	< 0.78	< 0.81	< 1.06	< 1.05	< 1.16	< 0.34	< 0.89	< 0.36	< 0.82	< 0.33	< 1.17	< 0.88
Hexachlorobenzene	118-74-1	< 1.61	< 0.72	< 1.03	< 0.85	< 1.57	< 0.58	< 0.66	< 0.81	< 0.87	< 0.96	< 0.25	< 0.73	< 0.27	< 0.59	< 0.24	< 0.82	< 0.72
Pentachlorophenol	87-86-5	< 2.53	< 1.03	< 1.48	< 1.48	< 2.46	< 1.08	< 0.95	< 1.39	< 1.25	< 1.37	< 0.42	< 1.05	< 0.45	< 1.12	< 0.41	< 1.25	< 1.04
Phenanthrene	85-01-8	0.72	0.70	0.50	0.78	0.45	0.40	0.29	0.31	0.82	0.32	0.48	0.31	0.40	0.22	0.35	0.37	0.39
Anthracene	120-12-7	< 0.43	< 0.19	< 0.27	< 0.22	< 0.42	< 0.17	< 0.18	< 0.21	< 0.24	< 0.26	< 0.07	< 0.20	< 0.08	< 0.23	< 0.07	< 0.21	< 0.19
Di-n-butylphthalate	84-74-2	0.17	6.71	0.96	0.44	2.42	18.73	0.26	0.00	0.85		1.49	0.17	30.65	0.73	1.47	0.47	11.65
Fluoranthene	206-44-0	0.25	< 0.19	< 0.27	< 0.22	< 0.38	< 0.16	< 0.18	< 0.20	< 0.23	< 0.25	< 0.07	< 0.20	< 0.08	< 0.22	< 0.07	< 0.17	< 0.19
Pyrene	129-00-0	0.41	0.59	0.27	< 0.39	< 0.38	0.30	0.12	< 0.26	0.77	0.22	0.45	0.14	0.22	< 0.20	0.16	0.14	0.16
Butylbenzylphthalate	85-68-7	1.55	0.88	0.63	1.92	1.74	1.41	1.26	1.40	2.44	1.46	0.97	2.07	0.91	1.04	0.87	1.49	1.74
3,3'-Dichlorobenzidine	91-94-1	< 1.15	< 0.51	< 0.78	< 1.91	< 1.07	< 0.35	< 0.49	< 1.71	< 0.60	< 0.69	< 0.24	< 0.52	< 0.27	< 0.56	< 0.22	< 1.10	< 0.56

TRC

Table E.1 - 2 Platen Press

Speciated Semivolatiles

	CAS #	Cmpd. #1 ng/m³	Cmpd. #2 ng/m³	Cmpd. #3 ng/m³	Cmpd. #5 ng/m³	Cmpd. #7 ng/m³	Cmpd. #9 ng/m³	Cmpd. #10 ng/m³	Cmpd. #11 ng/m³	Cmpd. #12 ng/m³	Cmpd. #13 ng/m³	Cmpd. #14 ng/m³	Cmpd. #16 ng/m³	Cmpd. #17 ng/m³	Cmpd. #19 ng/m³	Cmpd. #20 ng/m³	Cmpd. #22 ng/m³	Cmpd. #23 ng/m³
bis(2-Ethylhexyl)phthalate	117-81-7	13.04	7.88	6.78	11.73	35.80	6.80	8.98	6.74	11.99	60.00	7.51	9.77	13.16	15.02	8.45	8.88	21.07
Benzo(a)anthracene	56-55-3	< 0.48	< 0.22	< 0.33	< 0.51	< 0.45	< 0.12	< 0.20	< 0.46	< 0.25	< 0.29	< 0.10	< 0.22	< 0.11	< 0.22	< 0.09	< 0.31	< 0.23
Chrysene	218-01-9	< 0.54	< 0.24	< 0.36	< 0.59	< 0.50	< 0.13	< 0.22	< 0.53	< 0.27	< 0.32	< 0.11	< 0.24	< 0.12	< 0.24	< 0.09	< 0.35	< 0.26
Di-n-octylphthalate	117-84-0	0.54	0.41	< 0.20	< 0.59	< 0.26	0.24	0.54	< 0.38	0.71	< 0.16	0.18	0.78	< 0.07	0.16	0.58	< 0.36	0.84
Benzo(b)fluoranthene	205-99-2	< 0.51	< 0.21	< 0.35	< 0.74	< 0.46	< 0.11	< 0.22	< 0.65	< 0.25	< 0.27	< 0.09	< 0.21	< 0.11	< 0.23	< 0.08	< 0.41	< 0.26
Benzo(k)fluoranthene	207-08-9	< 0.52	< 0.24	< 0.39	< 0.77	< 0.47	< 0.11	< 0.25	< 0.68	< 0.28	< 0.31	< 0.10	< 0.24	< 0.12	< 0.25	< 0.09	< 0.43	< 0.29
Benzo(a)pyrene	50-32-8	< 0.55	< 0.24	< 0.39	< 0.92	< 0.49	< 0.11	< 0.25	< 0.82	< 0.29	< 0.31	< 0.10	< 0.24	< 0.12	< 0.25	< 0.09	< 0.51	< 0.30
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.52	< 0.23	< 0.38	< 1.30	< 0.46	< 0.09	< 0.24	< 1.14	< 0.27	< 0.30	< 0.10	< 0.23	< 0.12	< 0.25	< 0.09	< 0.68	< 0.28
Dibenz(a,h)anthracene	53-90-3	< 0.66	< 0.30	< 0.49	< 1.75	< 0.60	< 0.12	< 0.31	< 1.53	< 0.36	< 0.39	< 0.12	< 0.30	< 0.15	< 0.30	< 0.12	< 0.90	< 0.37
Benzo(g,h,i)perylene	191-24-2	< 0.59	< 0.26	< 0.43	< 1.50	< 0.53	< 0.10	< 0.27	< 1.31	< 0.31	< 0.34	< 0.11	< 0.26	< 0.13	< 0.29	< 0.10	< 0.78	< 0.32
n-Nitrosodimethylamine	62-75-9	< 1.60	< 0.55	< 0.67	< 1.34	< 1.62	< 1.20	< 0.52	< 1.27	< 0.65	< 0.73	< 0.47	< 0.61	< 0.45		< 0.41	< 1.40	< 0.56
Cumene	98-82-8	0.11	0.19	0.19	0.28	0.23	3.08	0.10	0.14	0.13	0.15	0.16	< 0.13	0.15	< 0.25	0.14	0.31	0.07
Aniline	62-53-3	< 0.49	1.32	2.25	6.07	< 0.49	< 0.39	< 0.17	1.00	< 0.21	< 0.23	< 0.09	< 0.20	3226.37	< 0.37	< 0.09	14.16	9.16
Benzyl Chloride	100-44-7	< 0.43	< 0.15	< 0.18	< 0.33	< 0.43	< 0.34	< 0.14	< 0.31	< 0.18	< 0.20	< 0.08	< 0.17	< 0.08	< 0.22	< 0.08	< 0.36	< 0.16
Acetophenone	98-86-2	1.58	4.40	1.35		2.71	1149.79	1.38		7.16	1.70	6.72	2.05	2.06	0.77	2.74		1.09
n-Nitrosomorpholine	59-89-2	< 1.47	< 0.52	< 0.63	< 0.87	< 1.49	< 0.90	< 0.49	< 0.82	< 0.61	< 0.68	< 0.27	< 0.57	< 0.26	< 0.61	< 0.27	< 0.99	< 0.52
o-Toluidine	95-53-4	< 0.57	5.05	< 0.26	< 0.41	< 0.57	< 0.39	< 0.20	< 0.39	7.29	< 0.28	< 0.10	< 0.23	< 0.10	< 0.39	< 0.10	< 0.35	< 0.21
N,N-Dimethylaniline	96-12-8	< 0.51	< 0.22	< 0.27	< 0.37	< 0.53	< 0.35	< 0.20	< 0.35	< 0.27	< 0.28	< 0.10	< 0.24	< 0.10	< 0.40	< 0.10	< 0.41	< 0.21
1,2-Dibromo-3-chloropropane	121-69-7	< 1.64	< 0.61	< 0.73	< 1.14	< 1.67	< 1.10	< 0.57	< 1.07	< 0.72	< 0.80	< 0.28	< 0.67	< 0.27	< 0.88	< 0.28	< 1.19	< 0.61
o-Anisidine	90-04-0	< 0.98	< 0.41	< 0.50	< 0.74	< 1.01	< 0.61	< 0.37	< 0.68	< 0.49	< 0.52	< 0.18	< 0.44	< 0.18	< 0.73	< 0.18	< 0.82	< 0.39
1,4-Phenylenediamine	106-50-3	< 1.15	< 0.49	< 0.61	< 0.98	< 1.19	< 0.61	< 0.45	< 0.91	< 0.60	< 0.63	< 0.24	< 0.54	< 0.24	< 0.57	< 0.24	< 1.15	< 0.48
N,N-Diethylaniline	91-66-7	< 0.46	< 0.17	< 0.21	< 0.31	< 0.47	< 0.30	< 0.16	< 0.29	< 0.20	< 0.23	< 0.09	< 0.19	< 0.09	< 0.33	< 0.09	< 0.36	< 0.17
a,a,a-Trichlorotoluene	98-07-7	< 0.62	< 0.27	< 0.33	< 0.45	< 0.65	< 0.42	< 0.25	< 0.42	< 0.33	< 0.34	< 0.11	< 0.30	< 0.11	< 0.33	< 0.11	< 0.48	< 0.26
Hydroquinone	123-31-9	< 0.76	< 0.31	< 0.38	< 0.68	< 0.79	< 0.53	< 0.28	< 0.62	< 0.37	< 0.39	< 0.18	< 0.34	< 0.18	< 0.73	< 0.17	< 0.70	< 0.30
2-Chloroacetophenone	1341-24-8	< 0.37	< 0.16	< 0.19	< 0.27	< 0.39	< 0.25	< 0.14	< 0.25	< 0.19	< 0.20	< 0.07	< 0.17	< 0.07	< 0.27	< 0.07	< 0.31	< 0.15
Biphenyl	92-52-4	< 0.40	< 0.18	0.45	0.92	< 0.40	< 0.25	< 0.17	< 0.23	< 0.23	< 0.23	< 0.07	< 0.19	< 0.08	< 0.27	< 0.07	< 0.26	< 0.17
Trifluralin	1582-09-8	< 2.80	< 1.17	< 1.61	< 1.34	< 2.85	< 0.94	< 1.09	< 1.26	< 1.48	< 1.53	< 0.44	< 1.24	< 0.45	< 1.02	< 0.43	< 1.30	< 1.15
4-Aminobiphenyl	92-67-1	< 0.49	< 0.23	< 0.34	< 0.32	< 0.48	< 0.25	< 0.22	< 0.30	< 0.28	< 0.31	< 0.09	< 0.24	< 0.10	< 0.27	< 0.09	< 0.29	< 0.24
Pentachloronitrobenzene	82-68-8	< 3.60	< 1.67	< 2.39	< 2.00	< 3.50	< 1.92	< 1.54	< 1.90	< 2.02	< 2.23	< 0.71	< 1.71	< 0.77	< 1.76	< 0.69	< 1.95	< 1.68
4-Nitrobiphenyl	92-93-3	< 1.05	< 0.46	< 0.66	< 0.66	< 1.01	< 0.50	< 0.43	< 0.61	< 0.56	< 0.62	< 0.20	< 0.47	< 0.22	< 0.61	< 0.20	< 0.54	< 0.47
Benzidine	92-87-5	< 0.59	< 0.27	< 0.41	14.25	< 0.55	< 0.20	< 0.25	< 1.22	< 0.31	< 0.36	< 0.14	< 0.27	< 0.16	< 0.36	< 0.13	0.93	< 0.29
4,4'-Methylenedianiline	101-77-9	< 1.13	< 0.52	< 0.79	< 1.47	< 1.06	< 0.40	< 0.50	< 1.35	< 0.61	< 0.70	< 0.24	< 0.53	< 0.28	< 0.60	< 0.22	< 1.01	< 0.57
Dimethylaminoazobenzene	60-11-7	< 0.99	< 0.45	< 0.69	< 0.87	< 0.93	< 0.30	< 0.43	< 0.79	< 0.53	< 0.61	< 0.20	< 0.46	< 0.23	< 0.70	< 0.18	< 0.56	< 0.49
3,3'-Dimethylbenzidine	119-93-7	< 0.60	< 0.30	< 0.45	< 0.75	< 0.56	< 0.19	< 0.28	< 0.68	< 0.34	< 0.40	< 0.14	< 0.30	< 0.16	< 0.32	< 0.13	< 0.49	< 0.32
3,3'-Dimethoxybenzidine	119-90-4	< 1.20	< 0.59	< 0.89	< 2.13	< 1.12	< 0.51	< 0.55	< 1.94	< 0.68	< 0.79	< 0.28	< 0.59	< 0.33	< 0.58	< 0.25	< 1.37	< 0.64
Methylene bis-chloroaniline	101-14-4	< 2.00	< 0.96	< 1.46	< 2.69	< 1.87	< 0.69	< 0.91	< 2.44	< 1.12	< 1.29	< 0.47	< 0.97	< 0.53	< 0.93	< 0.42	< 1.69	< 1.05
3-Furaldehyde	498-60-2	< 1.49	< 0.50	< 0.60	< 1.23	< 1.52	< 1.08	< 0.47	< 1.16	< 0.59	< 0.66	< 0.25	< 0.55	< 0.25	< 1.15	< 0.26	< 1.29	< 0.50
2-Furaldehyde	98-01-1	0.60	1.53	0.81	0.69	1.09	0.65	0.60	0.63	2.89	0.35	0.71	0.82	< 0.23	< 0.98	1.04	0.29	0.29
Cyclohexylamine	108-91-8	< 1.56	< 0.44	< 0.53	< 178.48	< 1.59	< 0.72	< 0.41	< 6.07	< 0.51	< 0.57	< 0.19	< 0.49	< 0.18	< 0.63	< 0.19	< 1.75	< 0.44
N-Nitrosodiethylamine	55-18-5	< 1.97	< 0.73	< 0.88	< 1.33	< 2.00	< 1.16	< 0.69	< 1.25	< 0.86	< 0.96	< 0.30	< 0.81	< 0.29	< 1.42	< 0.30	< 1.35	< 0.74
Cyclohexanone	108-94-1	1.40	< 0.51	2.03	20.85	< 1.48	0.77	< 0.48	0.96	1.07	< 0.67	1.47	1.00	< 0.22	< 0.64	0.30	0.98	2.23
1,3-Cyclooctadiene	1700-10-3	< 0.99	< 0.32	< 0.38	< 0.63	< 1.01	< 0.70	< 0.30	< 0.60	< 0.38	< 0.42	< 0.17	< 0.35	< 0.16	< 0.50	< 0.17	< 0.70	< 0.32
1,5-Cyclooctadiene	111-78-4	< 2.29	< 0.77	< 0.92	< 1.44	< 2.32	< 1.54	< 0.72	< 1.36	< 0.90	< 1.01	< 0.41	< 0.85	< 0.39	< 1.19	< 0.41	< 1.60	< 0.77
Camphene	79-92-5	2.67	2.13	2.06	< 2.09	3.31	2.34	2.31	2.25	2.68	< 0.43	2.20	2.76	< 0.16	< 0.57	2.17	2.16	1.47
Benzaldehyde	100-52-7	2.86	3.45	3.33	2.03	3.41	2.41	2.84	2.35	4.63	2.97	3.90	11.39	< 0.21	63.19	3.39	1.63	1.77
Benzonitrile	100-47-0	< 0.51	< 0.19	< 0.23	< 0.30	< 0.51	8.38	< 0.18	< 0.29	< 0.22	< 0.25	< 0.08	0.41	< 0.07	< 0.34	< 0.07	1.30	< 0.19
Isooctanol	26952-21-6	< 12.15	< 4.26	10.33	< 6.76	< 12.33	< 7.27	13.14	308.39	< 5.00	< 5.60	< 2.06	9.74	< 1.99	< 7.20	< 2.08	< 7.05	< 4.28
1,2,4-Trimethylbenzene	95-63-6	2.29	2.48	2.21	1.75	1.82	1.17	0.80	0.66	1.10	< 0.23	2.68	1.21	1.66	2.60	2.14	1.41	0.91
3-Methylstyrene	100-80-1	< 0.82	0.17	0.15	< 0.44	< 0.83	< 0.43	< 0.27	< 0.41	< 0.34	< 0.38	0.22	< 0.32	0.14	< 0.56	0.14	< 0.48	< 0.29
4-Methylstyrene	622-97-9	< 0.82	< 0.30	< 0.36	< 0.48	< 0.83	< 0.45	< 0.28	< 0.45	< 0.35	< 0.39	< 0.13	< 0.33	< 0.13	< 0.60	< 0.14	< 0.51	< 0.30
4-Chlorostyrene	1073-67-2	< 0.93	0.92	< 0.42	< 0.54	< 0.95	< 0.51	< 0.33	0.61	0.96	< 0.46	< 0.15	< 0.39	< 0.15	< 0.56	< 0.15	< 0.57	< 0.35
1-Dodecene	112-41-4	< 3.97	< 1.56	< 1.91	< 2.63	< 4.12	< 2.39	< 1.43	< 2.42	< 1.88	< 1.98	< 0.71	< 1.71	< 0.71	< 3.24	< 0.70	< 2.86	< 1.51
Phthalimide	85-41-6	< 2.70	< 1.12	11.03	< 1.29	< 2.74	< 1.00	5.81	< 0.62	2.42	< 1.47	6.49	18.04	27.21	< 1.60	0.47	< 0.92	52.81
Diphenylamine	122-39-4	< 0.63	1.29	0.36	1.68	< 0.64	11.87	0.35	3.90	3.32	1.02	27.05	1.20	0.22	< 0.38	0.07	1.06	0.09
Total detected		34.99	60.03	60.45	79.54	66.61	1225.11	47.69	339.44	59.96	74.40	86.41	81.44	3320.55	181.45	38.72	47.14	113.85
Total with non-detects		< 155.75	< 105.40	< 112.98	< 343.55	< 188.19	< 1286.82	< 85.93	< 417.28	< 114.34	< 137.74	< 106.49	< 124.38	< 3342.10	< 250.86	< 58.05	< 123.98	< 158.70

TRC

Table E.1 - 2 Platen Press

Speciated Semivolatiles

	CAS #	Cmpd. #1 lb/hr	Cmpd. #2 lb/hr	Cmpd. #3 lb/hr	Cmpd. #5 lb/hr	Cmpd. #7 lb/hr	Cmpd. #9 lb/hr	Cmpd. #10 lb/hr	Cmpd. #11 lb/hr	Cmpd. #12 lb/hr	Cmpd. #13 lb/hr	Cmpd. #14 lb/hr	Cmpd. #16 lb/hr	Cmpd. #17 lb/hr	Cmpd. #19 lb/hr	Cmpd. #20 lb/hr	Cmpd. #22 lb/hr	Cmpd. #23 lb/hr
Pyridine	110-86-1	< 1.76E-07	< 5.98E-08	< 7.16E-08	< 1.52E-07	< 1.79E-07	< 1.33E-07	< 5.61E-08	< 1.60E-07	< 6.94E-08	< 7.83E-08	< 4.08E-08	< 6.53E-08	< 3.99E-08	< 1.62E-07	< 4.23E-08	< 1.67E-07	< 5.95E-08
Phenol	108-95-2	3.06E-07	2.69E-07	2.59E-07	4.86E-07	2.11E-07	6.27E-07	2.09E-07	3.43E-07	2.79E-07	4.13E-07	1.31E-06	2.60E-07	< 1.81E-08	< 7.49E-08	3.10E-07	3.45E-07	2.02E-07
bis(2-Chloroethyl)ether	111-44-4	< 1.45E-07	< 5.11E-08	< 6.11E-08	< 1.15E-07	< 1.47E-07	< 1.22E-07	< 4.81E-08	< 1.20E-07	< 6.02E-08	< 6.70E-08	< 2.49E-08	< 5.63E-08	< 2.41E-08	< 9.38E-08	< 2.57E-08	< 1.37E-07	< 5.11E-08
2-Chlorophenol	95-57-8	< 1.37E-07	< 4.75E-08	< 5.74E-08	< 8.91E-08	< 1.39E-07	< 9.00E-08	< 4.52E-08	< 9.32E-08	< 5.55E-08	< 6.25E-08	< 2.26E-08	< 5.25E-08	< 2.18E-08	< 8.21E-08	< 2.34E-08	< 1.05E-07	< 4.81E-08
1,3-Dichlorobenzene	541-73-1	< 1.34E-07	< 4.54E-08	< 5.44E-08	< 8.45E-08	< 1.35E-07	< 8.64E-08	< 4.30E-08	< 8.87E-08	< 5.32E-08	< 5.95E-08	< 2.11E-08	< 5.03E-08	< 2.03E-08	< 6.58E-08	< 2.19E-08	< 9.80E-08	< 4.50E-08
1,4-Dichlorobenzene	106-46-7	5.16E-08	3.82E-08	2.76E-08	< 8.33E-08	2.71E-08	< 8.57E-08	2.77E-08	< 8.69E-08	3.01E-08	< 5.88E-08	4.38E-08	4.58E-08	2.64E-08	2.61E-08	4.83E-08	< 9.83E-08	4.12E-08
1,2-Dichlorobenzene	95-50-1	< 1.38E-07	< 4.82E-08	< 5.74E-08	< 9.01E-08	< 1.40E-07	< 9.30E-08	< 4.52E-08	< 9.40E-08	< 5.63E-08	< 6.33E-08	< 2.26E-08	< 5.33E-08	< 2.18E-08	< 7.04E-08	< 2.34E-08	< 1.07E-07	< 4.81E-08
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.26E-07	< 7.70E-08	< 9.24E-08	< 1.01E-07	< 2.30E-07	< 1.07E-07	< 7.28E-08	< 1.06E-07	< 9.02E-08	< 1.01E-07	< 3.93E-08	< 8.48E-08	< 3.77E-08	< 7.82E-08	< 4.00E-08	< 1.16E-07	< 7.70E-08
Benzyl alcohol	100-51-6	< 2.25E-07	1.04E-07	1.24E-07	< 1.23E-07	6.81E-08	< 1.51E-07	9.98E-08	< 8.09E-08	2.29E-07	1.60E-07	1.54E-07	1.84E-07	< 3.39E-08	1.01E-07	1.92E-07	< 1.51E-07	1.16E-07
2-Methylphenol	95-48-7	< 1.64E-07	< 5.83E-08	1.49E-08	< 1.08E-07	< 1.66E-07	< 1.12E-07	< 5.46E-08	< 1.13E-07	< 6.79E-08	< 7.61E-08	< 2.57E-08	< 6.38E-08	< 2.49E-08	< 1.07E-07	7.55E-09	< 1.28E-07	< 5.80E-08
3/4-Methylphenol	108-39-4/106-44-5	< 1.55E-07	< 5.40E-08	4.85E-08	< 1.03E-07	< 1.57E-07	< 1.07E-07	2.55E-08	< 1.07E-07	< 6.32E-08	< 7.08E-08	< 2.42E-08	3.68E-08	< 2.33E-08	< 1.00E-07	3.55E-08	< 1.22E-07	2.90E-08
N-Nitroso-di-n-propylamine	621-64-7	< 2.49E-07	< 9.00E-08	< 1.08E-07	< 1.61E-07	< 2.52E-07	< 2.01E-07	< 8.45E-08	< 1.67E-07	< 1.06E-07	< 1.18E-07	< 4.45E-08	< 9.90E-08	< 4.29E-08	< 1.13E-07	< 4.60E-08	< 2.02E-07	< 9.00E-08
Hexachloroethane	67-72-1	< 2.68E-07	< 9.29E-08	< 1.11E-07	< 1.69E-07	< 2.72E-07	< 1.76E-07	< 8.74E-08	< 1.76E-07	< 1.09E-07	< 1.22E-07	< 4.30E-08	< 1.03E-07	< 4.14E-08	< 1.37E-07	< 4.45E-08	< 2.02E-07	< 9.31E-08
Nitrobenzene	98-95-3	< 1.31E-07	< 5.04E-08	< 6.19E-08	< 9.04E-08	< 1.36E-07	< 1.02E-07	< 4.59E-08	< 9.20E-08	< 6.09E-08	< 6.40E-08	< 2.34E-08	< 5.48E-08	< 2.33E-08	< 6.06E-08	< 2.41E-08	< 1.12E-07	< 4.88E-08
Isophorone	78-59-1	< 7.29E-08	< 2.81E-08	< 3.43E-08	< 4.96E-08	< 7.51E-08	< 5.49E-08	< 2.55E-08	< 5.01E-08	< 3.39E-08	< 3.54E-08	< 1.36E-08	< 3.08E-08	< 1.36E-08	< 3.78E-08	< 1.36E-08	< 6.21E-08	< 2.75E-08
2-Nitrophenol	88-75-5	< 2.35E-07	< 9.14E-08	< 1.13E-07	< 1.49E-07	< 2.44E-07	< 1.63E-07	< 8.38E-08	< 1.51E-07	< 1.10E-07	< 1.16E-07	< 3.93E-08	< 1.01E-07	< 3.92E-08	< 1.37E-07	< 4.00E-08	< 1.85E-07	< 8.85E-08
2,4-Dimethylphenol	105-67-9	< 1.50E-07	< 5.83E-08	< 7.16E-08	< 1.05E-07	< 1.56E-07	< 1.08E-07	< 5.32E-08	< 1.07E-07	< 7.10E-08	< 7.46E-08	< 2.49E-08	< 6.38E-08	< 2.49E-08	< 8.47E-08	< 2.49E-08	< 1.25E-07	< 5.64E-08
bis(2-Chloroethoxy)methane	111-91-1	< 1.12E-07	< 4.39E-08	< 5.44E-08	< 8.91E-08	< 1.16E-07	< 9.15E-08	< 4.01E-08	< 9.10E-08	< 5.32E-08	< 5.57E-08	< 2.04E-08	< 4.80E-08	< 2.03E-08	< 7.23E-08	< 2.04E-08	< 1.07E-07	< 4.27E-08
Benzoic acid	65-85-0	< 2.75E-07	2.03E-06	1.04E-06	< 4.89E-07	2.17E-07	< 1.52E-07	5.91E-07	< 5.68E-07	< 1.15E-07	< 1.21E-07	1.35E-06	1.94E-06	1.74E-06	1.44E-05	1.17E-06	< 2.14E-07	2.98E-07
2,4-Dichlorophenol	120-83-2	< 1.73E-07	< 6.98E-08	< 8.57E-08	< 1.13E-07	< 1.80E-07	< 1.09E-07	< 6.41E-08	< 1.15E-07	< 8.41E-08	< 8.89E-08	< 2.72E-08	< 7.65E-08	< 2.71E-08	< 9.25E-08	< 2.72E-08	< 1.33E-07	< 6.71E-08
1,2,4-Trichlorobenzene	120-82-1	< 1.75E-07	< 6.84E-08	< 8.35E-08	< 1.00E-07	< 1.82E-07	< 9.88E-08	< 6.26E-08	< 1.02E-07	< 8.25E-08	< 8.66E-08	< 2.49E-08	< 7.50E-08	8.28E-09	< 7.23E-08	< 2.57E-08	< 1.20E-07	< 6.64E-08
Naphthalene	91-20-3	1.65E-07	2.30E-07	2.89E-07	7.90E-07	1.18E-06	1.98E-06	1.41E-07	1.22E-06	1.93E-07	1.76E-07	3.00E-07	1.75E-07	2.61E-07		1.96E-07	1.19E-06	1.89E-07
4-Chloroaniline	106-47-8	< 1.07E-07	< 4.18E-08	< 5.14E-08	< 7.69E-08	< 1.11E-07	< 7.47E-08	< 3.86E-08	< 7.81E-08	< 5.09E-08	< 5.35E-08	< 1.81E-08	< 4.58E-08	3.61E-07	< 6.91E-08	< 1.89E-08	< 9.68E-08	< 4.04E-08
Hexachlorobutadiene	87-68-3	< 3.08E-07	< 1.19E-07	< 1.46E-07	< 1.70E-07	< 3.20E-07	1.93E-07	< 1.09E-07	< 1.73E-07	< 1.44E-07	< 1.51E-07	< 4.98E-08	< 1.31E-07	< 4.97E-08	< 9.77E-08	< 5.06E-08	< 2.08E-07	< 1.15E-07
4-Chloro-3-methylphenol	59-50-7	< 1.62E-07	< 6.34E-08	< 7.75E-08	< 1.10E-07	< 1.68E-07	< 1.08E-07	< 5.75E-08	< 1.11E-07	< 7.64E-08	< 8.06E-08	< 2.72E-08	< 6.90E-08	< 2.71E-08	< 9.77E-08	< 2.79E-08	< 1.34E-07	< 6.10E-08
2-Methylnaphthalene	91-57-6	8.73E-08	1.12E-07	1.07E-07	1.00E-06	8.12E-08	1.16E-07	5.90E-08	1.38E-07	1.16E-07	4.90E-08	1.05E-07	7.28E-08	7.15E-08	5.67E-08	8.07E-08	3.16E-07	5.87E-08
Hexachlorocyclopentadiene	77-47-4	< 2.52E-07	< 1.04E-07	< 1.42E-07	< 1.67E-07	< 2.56E-07	< 1.49E-07	< 9.69E-08	< 1.74E-07	< 1.31E-07	< 1.36E-07	< 4.23E-08	< 1.10E-07	< 4.44E-08	< 1.03E-07	< 4.30E-08	< 2.10E-07	< 1.02E-07
2,4,6-Trichlorophenol	88-06-2	< 2.91E-07	< 1.12E-07	< 1.54E-07	< 1.50E-07	< 2.96E-07	< 1.43E-07	< 1.05E-07	< 1.57E-07	< 1.42E-07	< 1.47E-07	< 4.60E-08	< 1.19E-07	< 4.82E-08	< 1.21E-07	< 4.60E-08	< 1.80E-07	< 1.11E-07
2,4,5-Trichlorophenol	95-95-4	< 2.68E-07	< 1.02E-07	< 1.41E-07	< 1.41E-07	< 2.72E-07	< 1.26E-07	< 9.54E-08	< 1.48E-07	< 1.30E-07	< 1.34E-07	< 4.38E-08	< 1.09E-07	< 4.59E-08	< 1.19E-07	< 4.38E-08	< 1.65E-07	< 1.01E-07
2-Chloronaphthalene	91-58-7	< 8.73E-08	< 3.38E-08	< 4.70E-08	< 4.93E-08	< 8.90E-08	< 5.27E-08	< 3.20E-08	< 3.91E-08	< 4.32E-08	< 4.44E-08	1.81E-08	< 3.60E-08	< 1.36E-08	< 4.89E-08	1.36E-08	< 4.08E-08	< 3.36E-08
2-Nitroaniline	88-74-4	< 3.01E-07	< 1.09E-07	< 1.51E-07	< 1.58E-07	< 3.05E-07	< 1.70E-07	< 1.03E-07	< 1.65E-07	< 1.39E-07	< 1.44E-07	< 4.98E-08	< 1.16E-07	< 5.20E-08	< 1.30E-07	< 4.98E-08	< 1.87E-07	< 1.08E-07
Dimethylphthalate	131-11-3	< 8.05E-08	3.89E-08	< 4.40E-08	9.06E-08	< 8.20E-08	3.29E-08	< 2.99E-08	< 4.58E-08	< 4.01E-08	< 4.14E-08	3.25E-08	2.78E-08	3.09E-08	< 4.24E-08	< 1.21E-08	6.17E-08	< 3.13E-08
2,6-Dinitrotoluene	606-20-2	< 3.29E-07	< 1.31E-07	< 1.80E-07	< 1.65E-07	< 3.34E-07	< 1.71E-07	< 1.22E-07	< 1.73E-07	< 1.66E-07	< 1.72E-07	< 4.68E-08	< 1.39E-07	< 4.90E-08	< 1.62E-07	< 4.68E-08	< 1.90E-07	< 1.29E-07
2,4-Dinitrotoluene	121-14-2	< 2.55E-07	< 9.94E-08	< 1.38E-07	< 1.21E-07	< 2.58E-07	< 1.17E-07	< 9.32E-08	< 1.28E-07	< 1.26E-07	< 1.31E-07	< 3.70E-08	< 1.06E-07	< 3.84E-08	< 1.26E-07	< 3.70E-08	< 1.31E-07	< 9.84E-08
Acenaphthylene	208-96-8	< 5.47E-08	< 2.09E-08	7.16E-08	< 2.88E-08	< 5.49E-08	< 3.00E-08	< 1.97E-08	< 3.01E-08	< 2.70E-08	< 2.79E-08	< 8.30E-09	< 2.25E-08	< 9.04E-09	< 3.06E-08	< 8.30E-09	6.58E-08	< 2.06E-08
3-Nitroaniline	99-09-2	< 2.46E-07	< 9.50E-08	< 1.31E-07	< 1.50E-07	< 2.49E-07	< 1.39E-07	< 8.88E-08	< 1.57E-07	< 1.20E-07	< 1.25E-07	< 4.53E-08	< 1.01E-07	< 4.74E-08	< 1.78E-07	< 4.53E-08	< 1.72E-07	< 9.38E-08
Acenaphthene	83-32-9	< 8.65E-08	< 3.53E-08	1.79E-08	3.78E-08	< 8.82E-08	2.56E-08	9.47E-09	< 4.01E-08	1.93E-08	< 4.59E-08	< 1.43E-08	< 3.75E-08	< 1.51E-08	< 5.41E-08	1.28E-08	3.02E-08	1.30E-08
2,4-Dinitrophenol	105-67-9	< 7.74E-07	< 2.59E-07	< 3.58E-07	< 3.69E-07	< 7.85E-07	< 5.04E-07	< 2.43E-07	< 3.91E-07	< 3.29E-07	< 3.40E-07	< 1.09E-07	< 2.75E-07	< 1.15E-07	< 4.00E-07	< 1.10E-07	< 3.72E-07	< 2.56E-07
4-Nitrophenol	100-02-7	< 4.83E-07	< 1.81E-07	< 2.49E-07	< 2.85E-07	< 4.91E-07	< 3.05E-07	< 1.69E-07	< 3.01E-07	< 2.29E-07	< 2.37E-07	< 8.83E-08	< 1.92E-07	< 9.26E-08	< 2.70E-07	< 8.90E-08	< 2.82E-07	< 1.78E-07
Dibenzofuran	132-64-9	3.19E-08	2.52E-08	7.68E-08	< 3.25E-08	< 6.65E-08	< 3.37E-08	1.38E-08	< 3.44E-08	2.93E-08	1.73E-08	2.79E-08	2.03E-08	1.66E-08	< 3.39E-08	2.11E-08	< 3.86E-08	2.14E-08
Diethylphthalate	84-66-2	4.41E-07	2.61E-07	2.18E-07	2.30E-07	4.05E-07	1.67E-07	2.26E-07	1.85E-07	4.77E-07	1.60E-07	3.99E-07	3.26E-07	2.12E-07	7.49E-08	1.95E-07	1.58E-07	3.06E-07
4-Chlorophenyl-phenylether	70005-72-3	< 2.00E-07	< 8.14E-08	< 1.12E-07	< 8.73E-08	< 2.03E-07	< 8.20E-08	< 7.57E-08	< 9.15E-08	< 1.03E-07	< 1.06E-07	< 3.17E-08	< 8.63E-08	< 3.39E-08	< 7.49E-08	< 3.24E-08	< 1.03E-07	< 8.01E-08
Fluorene	86-73-7	1.59E-08	2.09E-08	2.61E-08	6.36E-08	< 8.98E-08	< 4.61E-08	< 3.35E-08	< 4.35E-08	< 4.55E-08	< 4.75E-08	< 1.36E-08	< 3.83E-08	1.28E-08	< 4.30E-08	1.13E-08	< 4.57E-08	< 3.59E-08
4-Nitroaniline	100-01-6	< 2.42E-07	< 1.00E-07	< 1.39E-07	< 1.42E-07	< 2.46E-07	< 1.49E-07	< 9.39E-08	< 1.50E-07	< 1.27E-07	< 1.32E-07	< 5.06E-08	< 1.07E-07	< 5.27E-08	< 1.94E-07	< 5.06E-08	< 1.48E-07	< 9.92E-08
4,6-Dinitro-2-methylphenol	534-52-1	< 4.95E-07	< 1.98E-07	< 2.83E-07	< 2.87E-07	< 4.81E-07	< 3.01E-07	< 1.83E-07	< 3.09E-07	< 2.40E-07	< 2.64E-07	< 8.45E-08	< 2.03E-07	< 9.19E-08	< 2.48E-07	< 8.45E-08	< 2.95E-07	< 2.00E-07
4-Bromophenyl-phenylether	101-55-3	< 3.26E-07	< 1.38E-07	< 1.96E-07	< 1.84E-07	< 3.17E-07	< 1.46E-07	< 1.27E-07	< 1.99E-07	< 1.66E-07	< 1.83E-07	< 5.28E-08	< 1.40E-07	< 5.72E-08	< 1.23E-07	< 5.28E-08	< 2.19E-07	< 1.38E-07
Hexachlorobenzene	118-74-1	< 2.60E-07	< 1.13E-07	< 1.62E-07	< 1.40E-07	< 2.52E-07	< 1.08E-07	< 1.04E-07	< 1.51E-07	< 1.37E-07	< 1.51E-07	< 3.93E-08	< 1.16E-07	< 4.29E-08	< 8.86E-08	< 3.92E-08	< 1.53E-07	< 1.14E-07
Pentachlorophenol	87-86-5	< 4.08E-07	< 1.63E-07	< 2.33E-07	< 2.42E-07	< 3.96E-07	< 2.03E-07	< 1.50E-07	< 2.60E-07	< 1.97E-07	< 2.16E-07	< 6.57E-08	< 1.66E-07	< 7.15E-08	< 1.67E-07	< 6.64E-08	< 2.34E-07	< 1.64E-07
Phenanthrene	85-01-8	1.16E-07	1.11E-07	7.90E-08	1.30E-07	7.27E-08	7.54E-08	4.52E-08	5.88E-08	1.29E-07	5.05E-08	7.55E-08	4.88E-08	6.33E-08	3.26E-08	5.66E-08	7.02E-08	6.18E-08
Anthracene	120-12-7	< 6.98E-08	< 3.02E-08	< 4.32E-08	< 3.64E-08	< 6.81E-08	< 3.22E-08	< 2.77E-08	< 3.91E-08	< 3.70E-08	< 4.07E-08	< 1.06E-08	< 3.08E-08	< 1.20E-08	< 3.52E-08	< 1.06E-08	< 3.96E-08	< 3.05E-08
Di-n-butylphthalate	84-74-2	2.73E-08	1.06E-06	1.51E-07	6.94E-08	3.90E-07	3.51E-06	4.15E-08	0.00E+00	1.34E-07		2.34E-07	2.70E-08	4.82E-06	1.10E-07	2.37E-07	8.81E-08	1.83E-06
Fluoranthene	206-44-0	3.95E-08	< 3.02E-08	< 4.25E-08	< 3.51E-08	< 6.11E-08	< 2.93E-08	< 2.77E-08	< 3.76E-08	< 3.63E-08	< 3.99E-08	< 1.13E-08	< 3.08E-08	< 1.20E-08	< 3.32E-08	< 1.13E-08	< 3.23E-08	< 3.05E-08
Pyrene	129-00-0	6.68E-08	9.29E-08	4.17E-08	< 6.26E-08	< 6.11E-08	5.64E-08	1.82E-08	< 4.82E-08	1.22E-07	3.46E-08	7.02E-08	2.25E-08	3.54E-08	< 3.00E-08	2.57E-08	2.54E-08	2.59E-08
Butylbenzylphthalate	85-68-7	2.50E-07	1.39E-07	9.84E-08	3.18E-07	2.81E-07	2.65E-07	1.99E-07	2.63E-07	3.83E-07	2.30E-07	1.53E-07	3.26E-07	1.43E-07	1.56E-07	1.40E-07	2.79E-07	2.73E-07
3,3'-Dichlorobenzidine	91-94-1	< 1.84E-07	< 8.06E-08	< 1.23E-07	< 3.03E-07	< 1.73E-07	< 6.52E-08	< 7.65E-08	< 3.20E-07	< 9.41E-08	< 1.08E-07	< 3.70E-08	< 8.18E-08	< 4.29E-08	< 8.34E-08	< 3.47E-08	< 2.06E-07	< 8.77E-08

TRC

Table E.1 - 2 Platen Press
Speciated Semivolatiles

	CAS #	Cmpd. #1 lb/hr	Cmpd. #2 lb/hr	Cmpd. #3 lb/hr	Cmpd. #5 lb/hr	Cmpd. #7 lb/hr	Cmpd. #9 lb/hr	Cmpd. #10 lb/hr	Cmpd. #11 lb/hr	Cmpd. #12 lb/hr	Cmpd. #13 lb/hr	Cmpd. #14 lb/hr	Cmpd. #16 lb/hr	Cmpd. #17 lb/hr	Cmpd. #19 lb/hr	Cmpd. #20 lb/hr	Cmpd. #22 lb/hr	Cmpd. #23 lb/hr
bis(2-Ethylhexyl)phthalate	117-81-7	2.10E-06	1.24E-06	1.07E-06	1.93E-06	5.77E-06	1.27E-05	1.41E-06	1.26E-06	1.89E-06	9.44E-06	1.18E-06	1.54E-06	2.07E-06	2.25E-06	1.36E-06	1.66E-06	3.31E-06
Benzo(a)anthracene	56-55-3	< 7.74E-08	< 3.38E-08	< 5.14E-08	< 8.09E-08	< 7.27E-08	< 2.27E-08	< 3.20E-08	< 8.60E-08	< 3.93E-08	< 4.52E-08	< 1.51E-08	< 3.45E-08	< 1.73E-08	< 3.32E-08	< 1.43E-08	< 5.75E-08	< 3.66E-08
Chrysene	218-01-9	< 8.65E-08	< 3.74E-08	< 5.67E-08	< 9.43E-08	< 8.12E-08	< 2.49E-08	< 3.50E-08	< 1.00E-07	< 4.32E-08	< 4.97E-08	< 1.66E-08	< 3.75E-08	< 1.88E-08	< 3.58E-08	< 1.51E-08	< 6.60E-08	< 4.04E-08
Di-n-octylphthalate	117-84-0	8.65E-08	6.48E-08	< 3.13E-08	< 9.76E-08	< 4.18E-08	4.54E-08	8.45E-08	< 7.10E-08	1.12E-07	< 2.49E-08	2.87E-08	1.23E-07	< 1.05E-08	2.35E-08	9.36E-08	< 6.83E-08	1.33E-07
Benzo(b)fluoranthene	205-99-2	< 8.20E-08	< 3.31E-08	< 5.44E-08	< 1.17E-07	< 7.35E-08	< 2.05E-08	< 3.42E-08	< 1.22E-07	< 4.01E-08	< 4.29E-08	< 1.43E-08	< 3.38E-08	< 1.73E-08	< 3.45E-08	< 1.36E-08	< 7.75E-08	< 4.04E-08
Benzo(k)fluoranthene	207-08-9	< 8.43E-08	< 3.74E-08	< 6.11E-08	< 1.21E-07	< 7.51E-08	< 2.05E-08	< 3.86E-08	< 1.27E-07	< 4.47E-08	< 4.82E-08	< 1.59E-08	< 3.75E-08	< 1.88E-08	< 3.71E-08	< 1.43E-08	< 8.14E-08	< 4.58E-08
Benzo(a)pyrene	50-32-8	< 8.88E-08	< 3.74E-08	< 6.19E-08	< 1.46E-07	< 7.97E-08	< 2.12E-08	< 3.86E-08	< 1.53E-07	< 4.55E-08	< 4.90E-08	< 1.59E-08	< 3.83E-08	< 1.88E-08	< 3.71E-08	< 1.51E-08	< 9.54E-08	< 4.65E-08
Indeno(1,2,3-cd)pyrene	193-39-5	< 8.35E-08	< 3.60E-08	< 5.96E-08	< 2.06E-07	< 7.43E-08	< 1.76E-08	< 3.71E-08	< 2.14E-07	< 4.32E-08	< 4.67E-08	< 1.59E-08	< 3.68E-08	< 1.88E-08	< 3.71E-08	< 1.51E-08	< 1.27E-07	< 4.42E-08
Dibenz(a,h)anthracene	53-90-3	< 1.06E-07	< 4.68E-08	< 7.75E-08	< 2.76E-07	< 9.59E-08	< 2.27E-08	< 4.88E-08	< 2.87E-07	< 5.63E-08	< 6.10E-08	< 1.96E-08	< 4.73E-08	< 2.33E-08	< 4.43E-08	< 1.89E-08	< 1.69E-07	< 5.80E-08
Benzo(g,h,i)perylene	191-24-2	< 9.57E-08	< 4.03E-08	< 6.71E-08	< 2.36E-07	< 8.59E-08	< 1.90E-08	< 4.22E-08	< 2.46E-07	< 4.86E-08	< 5.27E-08	< 1.74E-08	< 4.13E-08	< 2.11E-08	< 4.37E-08	< 1.66E-08	< 1.46E-07	< 5.03E-08
n-Nitrosodimethylamine	62-75-9	< 2.57E-07	< 8.71E-08	< 1.05E-07	< 2.27E-07	< 2.61E-07	< 2.24E-07	< 8.23E-08	< 2.37E-07	< 1.03E-07	< 1.14E-07	< 7.40E-08	< 9.68E-08	< 7.08E-08		< 7.62E-08	< 2.62E-07	< 8.77E-08
Cumene	98-82-8	1.82E-08	2.95E-08	2.98E-08	4.53E-08	3.71E-08	5.78E-07	1.60E-08	2.61E-08	2.08E-08	2.41E-08	2.49E-08	< 2.03E-08	2.41E-08	< 3.78E-08	2.26E-08	5.88E-08	1.14E-08
Aniline	62-53-3	< 7.82E-08	2.08E-07	3.54E-07	1.01E-06	< 7.97E-08	< 7.32E-08	< 2.62E-08	1.87E-07	< 3.32E-08	< 3.69E-08	< 1.43E-08	< 3.08E-08	5.08E-04	< 5.47E-08	< 1.43E-08	2.65E-06	1.44E-06
Benzyl Chloride	100-44-7	< 6.91E-08	< 2.38E-08	< 2.91E-08	< 5.58E-08	< 6.96E-08	< 6.30E-08	< 2.26E-08	< 5.79E-08	< 2.85E-08	< 3.16E-08	< 1.28E-08	< 2.63E-08	< 1.28E-08	< 3.32E-08	< 1.36E-08	< 6.69E-08	< 2.44E-08
Acetophenone	98-86-2	2.54E-07	6.93E-07	2.12E-07	0.00E+00	4.37E-07	2.15E-04	2.18E-07	0.00E+00	1.13E-06	2.67E-07	1.06E-06	3.22E-07	3.25E-07	1.15E-07	4.41E-07	0.00E+00	1.72E-07
n-Nitrosomorpholine	59-89-2	< 2.37E-07	< 8.21E-08	< 9.84E-08	< 1.49E-07	< 2.40E-07	< 1.69E-07	< 7.72E-08	< 1.54E-07	< 9.56E-08	< 1.08E-07	< 4.23E-08	< 9.00E-08	< 4.07E-08	< 9.19E-08	< 4.38E-08	< 1.85E-07	< 8.16E-08
o-Toluidine	95-53-4	< 9.11E-08	7.94E-07	< 4.03E-08	< 7.01E-08	< 9.21E-08	< 7.39E-08	< 3.13E-08	< 7.28E-08	1.15E-06	< 4.37E-08	< 1.59E-08	< 3.68E-08	< 1.51E-08	< 5.86E-08	< 1.58E-08	< 6.50E-08	< 3.36E-08
N,N-Dimethylaniline	96-12-8	< 8.27E-08	< 3.53E-08	< 4.25E-08	< 6.33E-08	< 8.59E-08	< 6.59E-08	< 3.20E-08	< 6.47E-08	< 4.24E-08	< 4.44E-08	< 1.51E-08	< 3.83E-08	< 1.51E-08	< 5.99E-08	< 1.58E-08	< 7.64E-08	< 3.36E-08
1,2-Dibromo-3-chloropropane	121-69-7	< 2.64E-07	< 9.58E-08	< 1.16E-07	< 1.92E-07	< 2.68E-07	< 2.06E-07	< 9.03E-08	< 2.01E-07	< 1.13E-07	< 1.26E-07	< 4.38E-08	< 1.06E-07	< 4.22E-08	< 1.32E-07	< 4.53E-08	< 2.23E-07	< 9.61E-08
o-Anisidine	90-04-0	< 1.57E-07	< 6.41E-08	< 7.83E-08	< 1.26E-07	< 1.63E-07	< 1.15E-07	< 5.83E-08	< 1.28E-07	< 7.71E-08	< 8.14E-08	< 2.79E-08	< 6.98E-08	< 2.86E-08	< 1.10E-07	< 2.87E-08	< 1.53E-07	< 6.18E-08
1,4-Phenylenediamine	106-50-3	< 1.85E-07	< 7.78E-08	< 9.54E-08	< 1.68E-07	< 1.92E-07	< 1.14E-07	< 7.14E-08	< 1.70E-07	< 9.41E-08	< 9.87E-08	< 3.77E-08	< 8.55E-08	< 3.77E-08	< 8.54E-08	< 3.85E-08	< 2.15E-07	< 7.55E-08
N,N-Diethylaniline	91-66-7	< 7.44E-08	< 2.74E-08	< 3.28E-08	< 5.34E-08	< 7.51E-08	< 5.64E-08	< 2.55E-08	< 5.51E-08	< 3.16E-08	< 3.54E-08	< 1.36E-08	< 3.00E-08	< 1.36E-08	< 4.95E-08	< 1.43E-08	< 6.76E-08	< 2.75E-08
a,a,a-Trichlorotoluene	98-07-7	< 1.00E-07	< 4.25E-08	< 5.22E-08	< 7.65E-08	< 1.04E-07	< 7.91E-08	< 3.86E-08	< 7.83E-08	< 5.17E-08	< 5.42E-08	< 1.74E-08	< 4.65E-08	< 1.73E-08	< 5.02E-08	< 1.74E-08	< 8.94E-08	< 4.12E-08
Hydroquinone	123-31-9	< 1.23E-07	< 4.82E-08	< 5.96E-08	< 1.14E-07	< 1.28E-07	< 9.88E-08	< 4.44E-08	< 1.16E-07	< 5.86E-08	< 6.18E-08	< 2.79E-08	< 5.33E-08	< 2.79E-08	< 1.10E-07	< 2.79E-08	< 1.31E-07	< 4.65E-08
2-Chloroacetophenone	1341-24-8	< 6.00E-08	< 2.45E-08	< 2.98E-08	< 4.63E-08	< 6.27E-08	< 4.61E-08	< 2.18E-08	< 4.68E-08	< 2.93E-08	< 3.09E-08	< 1.06E-08	< 2.63E-08	< 1.05E-08	< 3.97E-08	< 1.06E-08	< 5.72E-08	< 2.36E-08
Biphenyl	92-52-4	< 6.38E-08	< 2.81E-08	7.01E-08	1.54E-07	< 6.50E-08	< 4.61E-08	< 2.62E-08	< 4.40E-08	< 3.55E-08	< 3.69E-08	< 1.13E-08	< 3.00E-08	< 1.20E-08	< 4.04E-08	< 1.13E-08	< 4.81E-08	< 2.75E-08
Trifluralin	1582-09-8	< 4.52E-07	< 1.84E-07	< 2.53E-07	< 2.24E-07	< 4.59E-07	< 1.76E-07	< 1.72E-07	< 2.36E-07	< 2.33E-07	< 2.40E-07	< 6.87E-08	< 1.95E-07	< 7.15E-08	< 1.52E-07	< 6.87E-08	< 2.43E-07	< 1.82E-07
4-Aminobiphenyl	92-67-1	< 7.90E-08	< 3.67E-08	< 5.29E-08	< 5.26E-08	< 7.74E-08	< 4.61E-08	< 3.42E-08	< 5.65E-08	< 4.47E-08	< 4.90E-08	< 1.43E-08	< 3.75E-08	< 1.58E-08	< 4.10E-08	< 1.43E-08	< 5.41E-08	< 3.74E-08
Pentachloronitrobenzene	82-68-8	< 5.80E-07	< 2.63E-07	< 3.76E-07	< 3.29E-07	< 5.64E-07	< 3.59E-07	< 2.43E-07	< 3.55E-07	< 3.18E-07	< 3.50E-07	< 1.11E-07	< 2.69E-07	< 1.20E-07	< 2.64E-07	< 1.11E-07	< 3.64E-07	< 2.65E-07
4-Nitrobiphenyl	92-93-3	< 1.69E-07	< 7.27E-08	< 1.04E-07	< 1.07E-07	< 1.63E-07	< 9.37E-08	< 6.70E-08	< 1.15E-07	< 8.79E-08	< 9.72E-08	< 3.17E-08	< 7.43E-08	< 3.46E-08	< 9.12E-08	< 3.17E-08	< 1.01E-07	< 7.32E-08
Benzidine	92-87-5	< 9.57E-08	< 4.25E-08	< 6.41E-08	2.27E-06	< 8.90E-08	< 3.73E-08	< 4.01E-08	< 2.28E-07	< 4.94E-08	< 5.65E-08	< 2.26E-08	< 4.28E-08	< 2.56E-08	< 5.34E-08	< 2.04E-08	1.75E-07	< 4.58E-08
4,4'-Methylenedianiline	101-77-9	< 1.82E-07	< 8.21E-08	< 1.24E-07	< 2.36E-07	< 1.70E-07	< 7.54E-08	< 7.79E-08	< 2.53E-07	< 9.56E-08	< 1.10E-07	< 3.85E-08	< 8.33E-08	< 4.44E-08	< 8.93E-08	< 3.55E-08	< 1.89E-07	< 8.92E-08
Dimethylaminoazobenzene	60-11-7	< 1.59E-07	< 7.13E-08	< 1.08E-07	< 1.39E-07	< 1.49E-07	< 5.56E-08	< 6.77E-08	< 1.48E-07	< 8.33E-08	< 9.57E-08	< 3.17E-08	< 7.20E-08	< 3.69E-08	< 1.05E-07	< 2.94E-08	< 1.04E-07	< 7.78E-08
3,3'-Dimethylbenzidine	119-93-7	< 9.64E-08	< 4.68E-08	< 7.08E-08	< 1.20E-07	< 9.05E-08	< 3.59E-08	< 4.37E-08	< 1.28E-07	< 5.40E-08	< 6.25E-08	< 2.19E-08	< 4.73E-08	< 2.49E-08	< 4.76E-08	< 2.04E-08	< 9.24E-08	< 5.03E-08
3,3'-Dimethoxybenzidine	119-90-4	< 1.93E-07	< 9.22E-08	< 1.39E-07	< 3.41E-07	< 1.80E-07	< 9.52E-08	< 8.67E-08	< 3.64E-07	< 1.07E-07	< 1.24E-07	< 4.45E-08	< 9.30E-08	< 5.12E-08	< 8.73E-08	< 4.08E-08	< 2.56E-07	< 9.99E-08
Methylene bis-chloroaniline	101-14-4	< 3.23E-07	< 1.51E-07	< 2.30E-07	< 4.29E-07	< 3.02E-07	< 1.30E-07	< 1.43E-07	< 4.56E-07	< 1.77E-07	< 2.03E-07	< 7.32E-08	< 1.53E-07	< 8.36E-08	< 1.39E-07	< 6.79E-08	< 3.17E-07	< 1.65E-07
3-Furaldehyde	498-60-2	< 2.41E-07	< 7.85E-08	< 9.47E-08	< 2.08E-07	< 2.44E-07	< 2.03E-07	< 7.43E-08	< 2.18E-07	< 9.26E-08	< 1.03E-07	< 4.00E-08	< 8.70E-08	< 3.92E-08	< 1.73E-07	< 4.15E-08	< 2.42E-07	< 7.86E-08
2-Furaldehyde	98-01-1	9.64E-08	2.40E-07	1.28E-07	1.11E-07	1.75E-07	1.22E-07	9.47E-08	1.18E-07	4.55E-07	5.57E-08	1.12E-07	1.29E-07	< 3.69E-08	< 1.47E-07	1.67E-07	5.51E-08	4.50E-08
Cyclohexylamine	108-91-8	< 2.51E-07	< 6.91E-08	< 8.27E-08	< 3.02E-05	< 2.55E-07	< 1.35E-07	< 6.48E-08	< 1.14E-06	< 8.10E-08	< 9.04E-08	< 3.02E-08	< 7.65E-08	< 2.86E-08	< 9.51E-08	< 3.09E-08	< 3.28E-07	< 6.94E-08
N-Nitrosodiethylamine	55-18-5	< 3.17E-07	< 1.15E-07	< 1.39E-07	< 2.24E-07	< 3.22E-07	< 2.17E-07	< 1.09E-07	< 2.35E-07	< 1.35E-07	< 1.51E-07	< 4.68E-08	< 1.28E-07	< 4.52E-08	< 2.12E-07	< 4.83E-08	< 2.53E-07	< 1.16E-07
Cyclohexanone	108-94-1	2.25E-07	< 7.99E-08	3.20E-07	3.47E-06	< 2.39E-07	1.44E-07	< 7.50E-08	1.80E-07	1.68E-07	< 1.05E-07	2.31E-07	1.57E-07	< 3.39E-08	< 9.58E-08	4.75E-08	1.84E-07	3.51E-07
1,3-Cyclooctadiene	1700-10-3	< 1.60E-07	< 5.04E-08	< 6.04E-08	< 1.08E-07	< 1.62E-07	< 1.32E-07	< 4.73E-08	< 1.12E-07	< 5.94E-08	< 6.63E-08	< 2.72E-08	< 5.55E-08	< 2.56E-08	< 7.49E-08	< 2.79E-08	< 1.31E-07	< 5.03E-08
1,5-Cyclooctadiene	111-78-4	< 3.68E-07	< 1.21E-07	< 1.45E-07	< 2.46E-07	< 3.74E-07	< 2.88E-07	< 1.14E-07	< 2.56E-07	< 1.41E-07	< 1.58E-07	< 6.42E-08	< 1.34E-07	< 6.18E-08	< 1.78E-07	< 6.64E-08	< 3.00E-07	< 1.21E-07
Camphene	79-92-5	4.30E-07	3.35E-07	3.24E-07	< 3.37E-07	5.34E-07	4.39E-07	3.63E-07	4.21E-07	4.22E-07	< 6.78E-08	3.46E-07	4.34E-07	< 2.56E-08	< 8.54E-08	3.49E-07	4.05E-07	2.31E-07
Benzaldehyde	100-52-7	4.61E-07	5.43E-07	5.24E-07	3.31E-07	5.49E-07	4.52E-07	4.47E-07	4.40E-07	7.28E-07	4.68E-07	6.13E-07	1.79E-06	< 3.24E-08	9.47E-06	5.46E-07	3.05E-07	2.78E-07
Benzonitrile	100-47-0	< 8.20E-08	< 2.95E-08	< 3.58E-08	< 5.13E-08	< 8.28E-08	1.57E-06	< 2.84E-08	< 5.38E-08	< 3.47E-08	< 3.92E-08	< 1.21E-08	6.38E-08	< 1.13E-08	< 5.08E-08	< 1.21E-08	2.43E-07	< 2.97E-08
Isooctanol	26952-21-6	< 1.96E-06	< 6.71E-07	1.63E-06	< 1.14E-06	< 1.99E-06	< 1.36E-06	2.07E-06	5.78E-05	< 7.87E-07	< 8.81E-07	< 3.25E-07	1.53E-06	< 3.13E-07	< 1.08E-06	< 3.36E-07	< 1.32E-06	< 6.73E-07
1,2,4-Trimethylbenzene	95-63-6	3.68E-07	3.90E-07	3.47E-07	2.92E-07	2.93E-07	2.19E-07	1.26E-07	1.24E-07	1.73E-07	< 3.62E-08	4.21E-07	1.91E-07	2.61E-07	3.89E-07	3.45E-07	2.64E-07	1.43E-07
3-Methylstyrene	100-80-1	< 1.31E-07	2.66E-08	2.39E-08	< 7.43E-08	< 1.33E-07	< 7.98E-08	< 4.22E-08	< 7.71E-08	< 5.32E-08	< 5.95E-08	3.40E-08	< 5.03E-08	2.26E-08	< 8.34E-08	2.26E-08	< 8.99E-08	< 4.50E-08
4-Methylstyrene	622-97-9	< 1.31E-07	< 4.68E-08	< 5.59E-08	< 8.11E-08	< 1.33E-07	< 8.35E-08	< 4.44E-08	< 8.44E-08	< 5.48E-08	< 6.18E-08	< 2.11E-08	< 5.18E-08	< 2.03E-08	< 8.93E-08	< 2.19E-08	< 9.53E-08	< 4.73E-08
4-Chlorostyrene	1073-67-2	< 1.50E-07	1.45E-07	< 6.63E-08	< 9.13E-08	< 1.52E-07	< 9.52E-08	< 5.24E-08	1.15E-07	1.50E-07	< 7.31E-08	< 2.42E-08	< 6.15E-08	< 2.33E-08	< 8.34E-08	< 2.49E-08	< 1.08E-07	< 5.57E-08
1-Dodecene	112-41-4	< 6.39E-07	< 2.45E-07	< 3.00E-07	< 4.45E-07	< 6.63E-07	< 4.47E-07	< 2.24E-07	< 4.52E-07	< 2.96E-07	< 3.12E-07	< 1.11E-07	< 2.69E-07	< 1.11E-07	< 4.85E-07	< 1.13E-07	< 5.35E-07	< 2.37E-07
Phthalimide	85-41-6	< 4.35E-07	< 1.76E-07	1.74E-06	< 2.12E-07	< 4.42E-07	< 1.87E-07	9.14E-07	< 1.16E-07	3.81E-07	< 2.31E-07	1.02E-06	2.84E-06	4.28E-06	< 2.40E-07	7.55E-08	< 1.73E-07	8.31E-06
Diphenylamine	122-39-4	< 1.02E-07	2.03E-07	5.74E-08	2.80E-07	< 1.03E-07	2.22E-06	5.46E-08	7.30E-07	5.23E-07	1.61E-07	4.26E-06	1.88E-07	3.54E-08	< 5.67E-08	1.21E-08	1.98E-07	1.37E-08
Total detected		5.64E-06	9.44E-06	9.51E-06	1.31E-05	1.07E-05	2.29E-04	7.50E-06	6.36E-05	9.43E-06	1.17E-05	1.36E-05	1.28E-05	5.22E-04	2.72E-05	6.24E-06	8.83E-06	1.79E-05
Total with non-detects		< 2.51E-05	< 1.66E-05	< 1.78E-05	< 5.75E-05	< 3.03E-05	< 2.41E-04	< 1.35E-05	< 7.82E-05	< 1.80E-05	< 2.17E-05	< 1.68E-05	< 1.96E-05	< 5.26E-04	< 3.76E-05	< 9.35E-06	< 2.32E-05	< 2.50E-05

TRC

Table E.1 - 2 Platen Press

Speciated Semivolatiles

	CAS #	Cmpd. #1 lb/lb rubber	Cmpd. #2 lb/lb rubber	Cmpd. #3 lb/lb rubber	Cmpd. #5 lb/lb rubber	Cmpd. #7 lb/lb rubber	Cmpd. #9 lb/lb rubber	Cmpd. #10 lb/lb rubber	Cmpd. #11 lb/lb rubber	Cmpd. #12 lb/lb rubber	Cmpd. #13 lb/lb rubber	Cmpd. #14 lb/lb rubber	Cmpd. #16 lb/lb rubber	Cmpd. #17 lb/lb rubber	Cmpd. #19 lb/lb rubber	Cmpd. #20 lb/lb rubber	Cmpd. #22 lb/lb rubber	Cmpd. #23 lb/lb rubber
Pyridine	110-86-1	< 3.52E-07	< 1.20E-07	< 1.43E-07	< 3.03E-07	< 3.57E-07	< 2.72E-07	< 1.12E-07	< 2.13E-07	< 1.33E-07	< 1.48E-07	< 8.32E-08	< 1.31E-07	< 7.98E-08	< 3.11E-07	< 7.97E-08	< 2.68E-07	< 1.17E-07
Phenol	108-95-2	6.12E-07	5.37E-07	5.19E-07	9.67E-07	4.22E-07	1.28E-06	4.18E-07	4.62E-07	5.37E-07	7.79E-07	2.67E-06	5.19E-07	< 3.61E-08	< 1.44E-07	5.85E-07	5.53E-07	3.96E-07
bis(2-Chloroethyl)ether	111-44-4	< 2.90E-07	< 1.02E-07	< 1.22E-07	< 2.29E-07	< 2.94E-07	< 2.50E-07	< 9.61E-08	< 1.62E-07	< 1.16E-07	< 1.26E-07	< 5.08E-08	< 1.13E-07	< 4.82E-08	< 1.80E-07	< 4.84E-08	< 2.21E-07	< 1.00E-07
2-Chlorophenol	95-57-8	< 2.75E-07	< 9.50E-08	< 1.15E-07	< 1.77E-07	< 2.79E-07	< 1.84E-07	< 9.03E-08	< 1.26E-07	< 1.07E-07	< 1.18E-07	< 4.62E-08	< 1.05E-07	< 4.37E-08	< 1.58E-07	< 4.41E-08	< 1.69E-07	< 9.42E-08
1,3-Dichlorobenzene	541-73-1	< 2.67E-07	< 9.07E-08	< 1.09E-07	< 1.68E-07	< 2.71E-07	< 1.76E-07	< 8.59E-08	< 1.19E-07	< 1.02E-07	< 1.12E-07	< 4.31E-08	< 1.01E-07	< 4.07E-08	< 1.27E-07	< 4.13E-08	< 1.58E-07	< 8.82E-08
1,4-Dichlorobenzene	106-46-7	1.03E-07	7.63E-08	5.52E-08	< 1.65E-07	5.42E-08	< 1.75E-07	5.53E-08	< 1.17E-07	5.78E-08	< 1.11E-07	8.94E-08	9.15E-08	5.27E-08	5.01E-08	9.11E-08	< 1.59E-07	8.08E-08
1,2-Dichlorobenzene	95-50-1	< 2.76E-07	< 9.65E-08	< 1.15E-07	< 1.79E-07	< 2.80E-07	< 1.90E-07	< 9.03E-08	< 1.27E-07	< 1.08E-07	< 1.19E-07	< 4.62E-08	< 1.07E-07	< 4.37E-08	< 1.35E-07	< 4.41E-08	< 1.72E-07	< 9.42E-08
2,2'-oxybis(1-Chloropropane)	108-60-1	< 4.52E-07	< 1.54E-07	< 1.85E-07	< 2.01E-07	< 4.60E-07	< 2.18E-07	< 1.46E-07	< 1.42E-07	< 1.74E-07	< 1.90E-07	< 8.01E-08	< 1.70E-07	< 7.53E-08	< 1.50E-07	< 7.55E-08	< 1.86E-07	< 1.51E-07
Benzyl alcohol	100-51-6	< 4.49E-07	2.07E-07	2.49E-07	< 2.43E-07	1.36E-07	< 3.08E-07	2.00E-07	< 1.07E-07	4.41E-07	3.03E-07	3.14E-07	3.68E-07	< 6.78E-08	1.94E-07	3.63E-07	< 2.47E-07	2.27E-07
2-Methylphenol	95-48-7	< 3.28E-07	< 1.17E-07	2.98E-08	< 2.15E-07	< 3.33E-07	< 2.29E-07	< 1.09E-07	< 1.53E-07	< 1.31E-07	< 1.44E-07	< 5.24E-08	< 1.28E-07	< 4.97E-08	< 2.06E-07	1.42E-08	< 2.07E-07	< 1.14E-07
3/4-Methylphenol	108-39-4/106-44-5	< 3.10E-07	< 1.08E-07	9.69E-08	< 2.04E-07	< 3.14E-07	< 2.18E-07	5.10E-08	< 1.45E-07	< 1.22E-07	< 1.34E-07	< 4.93E-08	7.35E-08	< 4.67E-08	< 1.93E-07	6.69E-08	< 1.97E-07	5.68E-08
N-Nitroso-di-n-propylamine	621-64-7	< 4.98E-07	< 1.80E-07	< 2.16E-07	< 3.18E-07	< 5.04E-07	< 4.09E-07	< 1.69E-07	< 2.27E-07	< 2.03E-07	< 2.23E-07	< 9.09E-08	< 1.98E-07	< 8.59E-08	< 2.18E-07	< 8.69E-08	< 3.28E-07	< 1.76E-07
Hexachloroethane	67-72-1	< 5.36E-07	< 1.86E-07	< 2.22E-07	< 3.35E-07	< 5.45E-07	< 3.59E-07	< 1.75E-07	< 2.38E-07	< 2.09E-07	< 2.30E-07	< 8.78E-08	< 2.06E-07	< 8.28E-08	< 2.64E-07	< 8.40E-08	< 3.26E-07	< 1.82E-07
Nitrobenzene	98-95-3	< 2.63E-07	< 1.01E-07	< 1.24E-07	< 1.79E-07	< 2.72E-07	< 2.08E-07	< 9.18E-08	< 1.25E-07	< 1.17E-07	< 1.21E-07	< 4.78E-08	< 1.10E-07	< 4.67E-08	< 1.17E-07	< 4.56E-08	< 1.80E-07	< 9.57E-08
Isophorone	78-59-1	< 1.46E-07	< 5.62E-08	< 6.86E-08	< 9.82E-08	< 1.50E-07	< 1.12E-07	< 5.10E-08	< 6.79E-08	< 6.53E-08	< 6.68E-08	< 2.77E-08	< 6.15E-08	< 2.71E-08	< 7.27E-08	< 2.56E-08	< 1.00E-07	< 5.38E-08
2-Nitrophenol	88-75-5	< 4.69E-07	< 1.83E-07	< 2.25E-07	< 2.95E-07	< 4.87E-07	< 3.33E-07	< 1.68E-07	< 2.05E-07	< 2.12E-07	< 2.19E-07	< 8.01E-08	< 2.01E-07	< 7.83E-08	< 2.64E-07	< 7.55E-08	< 2.99E-07	< 1.73E-07
2,4-Dimethylphenol	105-67-9	< 3.01E-07	< 1.17E-07	< 1.43E-07	< 2.09E-07	< 3.13E-07	< 2.21E-07	< 1.06E-07	< 1.44E-07	< 1.36E-07	< 1.41E-07	< 5.08E-08	< 1.28E-07	< 4.97E-08	< 1.63E-07	< 4.70E-08	< 2.02E-07	< 1.11E-07
bis(2-Chloroethoxy)methane	111-91-1	< 2.23E-07	< 8.78E-08	< 1.09E-07	< 1.77E-07	< 2.32E-07	< 1.87E-07	< 8.01E-08	< 1.23E-07	< 1.02E-07	< 1.05E-07	< 4.16E-08	< 9.60E-08	< 4.07E-08	< 1.39E-07	< 3.84E-08	< 1.73E-07	< 8.38E-08
Benzoic acid	65-85-0	< 5.50E-07	4.07E-06	2.08E-06	< 9.75E-07	4.35E-07	< 3.11E-07	1.18E-06	< 7.31E-07	< 2.21E-07	< 2.29E-07	2.75E-06	3.87E-06	3.47E-06	2.77E-05	2.21E-06	< 3.45E-07	5.85E-07
2,4-Dichlorophenol	120-83-2	< 3.46E-07	< 1.40E-07	< 1.71E-07	< 2.25E-07	< 3.59E-07	< 2.23E-07	< 1.28E-07	< 1.55E-07	< 1.62E-07	< 1.68E-07	< 5.55E-08	< 1.53E-07	< 5.42E-08	< 1.78E-07	< 5.13E-08	< 2.14E-07	< 1.32E-07
1,2,4-Trichlorobenzene	120-82-1	< 3.51E-07	< 1.37E-07	< 1.67E-07	< 1.98E-07	< 3.64E-07	< 2.02E-07	< 1.25E-07	< 1.37E-07	< 1.59E-07	< 1.63E-07	< 5.08E-08	< 1.50E-07	1.66E-08	< 1.39E-07	< 4.84E-08	< 1.93E-07	< 1.30E-07
Naphthalene	91-20-3	3.29E-07	4.59E-07	5.78E-07	1.57E-06	2.37E-06	4.04E-06	2.81E-07	1.67E-06	3.71E-07	3.31E-07	6.12E-07	3.50E-07	5.23E-07		3.70E-07	1.92E-06	3.71E-07
4-Chloroaniline	106-47-8	< 2.14E-07	< 8.35E-08	< 1.03E-07	< 1.52E-07	< 2.23E-07	< 1.52E-07	< 7.72E-08	< 1.06E-07	< 9.79E-08	< 1.01E-07	< 3.70E-08	< 9.15E-08	7.21E-07	< 1.33E-07	< 3.56E-08	< 1.56E-07	< 7.93E-08
Hexachlorobutadiene	87-68-3	< 6.16E-07	< 2.38E-07	< 2.92E-07	< 3.37E-07	< 6.39E-07	3.93E-07	< 2.17E-07	< 2.33E-07	< 2.77E-07	< 2.86E-07	< 1.02E-07	< 2.61E-07	< 9.94E-08	< 1.88E-07	< 9.54E-08	< 3.36E-07	< 2.26E-07
4-Chloro-3-methylphenol	59-50-7	< 3.23E-07	< 1.27E-07	< 1.55E-07	< 2.17E-07	< 3.36E-07	< 2.20E-07	< 1.15E-07	< 1.51E-07	< 1.47E-07	< 1.52E-07	< 5.55E-08	< 1.38E-07	< 5.42E-08	< 1.88E-07	< 5.27E-08	< 2.16E-07	< 1.20E-07
2-Methylnaphthalene	91-57-6	1.75E-07	2.25E-07	2.13E-07	1.98E-06	1.62E-07	2.38E-07	1.18E-07	1.91E-07	2.22E-07	9.24E-08	2.14E-07	1.46E-07	1.43E-07	1.09E-07	1.52E-07	5.07E-07	1.15E-07
Hexachlorocyclopentadiene	77-47-4	< 5.04E-07	< 2.07E-07	< 2.85E-07	< 3.32E-07	< 5.12E-07	< 3.05E-07	< 1.94E-07	< 2.35E-07	< 2.52E-07	< 2.56E-07	< 8.63E-08	< 2.21E-07	< 8.89E-08	< 1.98E-07	< 8.12E-08	< 3.39E-07	< 2.00E-07
2,4,6-Trichlorophenol	88-06-2	< 5.82E-07	< 2.23E-07	< 3.09E-07	< 2.98E-07	< 5.91E-07	< 2.91E-07	< 2.10E-07	< 2.11E-07	< 2.73E-07	< 2.77E-07	< 9.40E-08	< 2.37E-07	< 9.64E-08	< 2.32E-07	< 8.69E-08	< 2.91E-07	< 2.17E-07
2,4,5-Trichlorophenol	95-95-4	< 5.36E-07	< 2.04E-07	< 2.82E-07	< 2.81E-07	< 5.43E-07	< 2.57E-07	< 1.91E-07	< 1.99E-07	< 2.49E-07	< 2.53E-07	< 8.94E-08	< 2.18E-07	< 9.19E-08	< 2.28E-07	< 8.26E-08	< 2.66E-07	< 1.97E-07
2-Chloronaphthalene	91-58-7	< 1.75E-07	< 6.77E-08	< 9.39E-08	< 9.77E-08	< 1.78E-07	< 1.08E-07	< 6.41E-08	< 5.36E-08	< 8.31E-08	< 8.39E-08	3.70E-08	< 7.20E-08	< 2.71E-08	< 9.40E-08	2.56E-08	< 6.57E-08	< 6.58E-08
2-Nitroaniline	88-74-4	< 6.01E-07	< 2.19E-07	< 3.03E-07	< 3.13E-07	< 6.10E-07	< 3.47E-07	< 2.05E-07	< 2.21E-07	< 2.67E-07	< 2.71E-07	< 1.02E-07	< 2.33E-07	< 1.04E-07	< 2.49E-07	< 9.40E-08	< 3.01E-07	< 2.12E-07
Dimethylphthalate	131-11-3	< 1.61E-07	7.78E-08	< 8.80E-08	1.80E-07	< 1.64E-07	6.72E-08	< 5.97E-08	< 6.18E-08	< 7.71E-08	< 7.82E-08	6.62E-08	5.55E-08	6.18E-08	< 8.14E-08	< 2.28E-08	9.90E-08	< 6.13E-08
2,6-Dinitrotoluene	606-20-2	< 6.57E-07	< 2.62E-07	< 3.61E-07	< 3.27E-07	< 6.69E-07	< 3.48E-07	< 2.45E-07	< 2.31E-07	< 3.19E-07	< 3.24E-07	< 9.55E-08	< 2.78E-07	< 9.79E-08	< 3.11E-07	< 8.83E-08	< 3.05E-07	< 2.53E-07
2,4-Dinitrotoluene	121-14-2	< 5.10E-07	< 1.99E-07	< 2.76E-07	< 2.41E-07	< 5.17E-07	< 2.39E-07	< 1.86E-07	< 1.70E-07	< 2.43E-07	< 2.47E-07	< 7.55E-08	< 2.12E-07	< 7.68E-08	< 2.42E-07	< 6.98E-08	< 2.10E-07	< 1.93E-07
Acenaphthylene	208-96-8	< 1.09E-07	< 4.18E-08	1.43E-07	< 5.70E-08	< 1.10E-07	< 6.13E-08	< 3.93E-08	< 4.05E-08	< 5.19E-08	< 5.26E-08	< 1.69E-08	< 4.50E-08	< 1.81E-08	< 5.89E-08	< 1.57E-08	1.06E-07	< 4.04E-08
3-Nitroaniline	99-09-2	< 4.92E-07	< 1.90E-07	< 2.62E-07	< 2.98E-07	< 4.98E-07	< 2.84E-07	< 1.78E-07	< 2.10E-07	< 2.31E-07	< 2.36E-07	< 9.24E-08	< 2.03E-07	< 9.49E-08	< 3.42E-07	< 8.54E-08	< 2.77E-07	< 1.84E-07
Acenaphthene	83-32-9	< 1.73E-07	< 7.06E-08	3.58E-08	7.49E-08	< 1.76E-07	5.23E-08	1.89E-08	< 5.28E-08	3.71E-08	< 8.67E-08	< 2.93E-08	< 7.50E-08	< 3.01E-08	< 1.04E-07	2.42E-08	4.87E-08	2.54E-08
2,4-Dinitrophenol	105-67-9	< 1.55E-06	< 5.18E-07	< 7.16E-07	< 7.34E-07	< 1.57E-06	< 1.03E-06	< 4.85E-07	< 5.15E-07	< 6.33E-07	< 6.41E-07	< 2.23E-07	< 5.51E-07	< 2.30E-07	< 7.69E-07	< 2.08E-07	< 5.95E-07	< 5.03E-07
4-Nitrophenol	100-02-7	< 9.66E-07	< 3.61E-07	< 4.98E-07	< 5.67E-07	< 9.81E-07	< 6.22E-07	< 3.38E-07	< 3.97E-07	< 4.41E-07	< 4.46E-07	< 1.80E-07	< 3.84E-07	< 1.85E-07	< 5.19E-07	< 1.68E-07	< 4.52E-07	< 3.50E-07
Dibenzofuran	132-64-9	6.38E-08	5.04E-08	1.54E-07	< 6.45E-08	< 1.33E-07	< 6.87E-08	2.77E-08	< 4.61E-08	5.64E-08	3.27E-08	5.70E-08	4.05E-08	3.31E-08	< 6.52E-08	3.99E-08	< 6.21E-08	4.19E-08
Diethylphthalate	84-66-2	8.82E-07	5.23E-07	4.37E-07	4.57E-07	8.09E-07	3.41E-07	4.52E-07	2.48E-07	9.18E-07	3.01E-07	8.13E-07	6.53E-07	4.23E-07	1.44E-07	3.67E-07	2.52E-07	6.00E-07
4-Chlorophenyl-phenylether	7005-72-3	< 4.01E-07	< 1.63E-07	< 2.24E-07	< 1.73E-07	< 4.07E-07	< 1.67E-07	< 1.51E-07	< 1.23E-07	< 1.99E-07	< 2.00E-07	< 6.47E-08	< 1.73E-07	< 6.78E-08	< 1.44E-07	< 6.12E-08	< 1.66E-07	< 1.57E-07
Fluorene	86-73-7	3.19E-08	4.18E-08	5.22E-08	1.26E-07	< 1.80E-07	< 9.41E-08	< 6.70E-08	< 5.86E-08	< 8.75E-08	< 8.95E-08	< 2.77E-08	< 7.65E-08	2.56E-08	< 8.27E-08	2.14E-08	< 7.42E-08	< 7.03E-08
4-Nitroaniline	100-01-6	< 4.84E-07	< 2.00E-07	< 2.77E-07	< 2.82E-07	< 4.92E-07	< 3.03E-07	< 1.88E-07	< 1.98E-07	< 2.45E-07	< 2.49E-07	< 1.03E-07	< 2.13E-07	< 1.05E-07	< 3.72E-07	< 9.54E-08	< 2.37E-07	< 1.94E-07
4,6-Dinitro-2-methylphenol	534-52-1	< 9.90E-07	< 3.96E-07	< 5.67E-07	< 5.72E-07	< 9.63E-07	< 6.14E-07	< 3.66E-07	< 4.06E-07	< 4.61E-07	< 4.97E-07	< 1.73E-07	< 4.05E-07	< 1.84E-07	< 4.76E-07	< 1.59E-07	< 4.73E-07	< 3.92E-07
4-Bromophenyl-phenylether	101-55-3	< 6.53E-07	< 2.75E-07	< 3.92E-07	< 3.66E-07	< 6.34E-07	< 2.97E-07	< 2.53E-07	< 2.65E-07	< 3.19E-07	< 3.45E-07	< 1.08E-07	< 2.81E-07	< 1.14E-07	< 2.37E-07	< 9.97E-08	< 3.54E-07	< 2.71E-07
Hexachlorobenzene	118-74-1	< 5.19E-07	< 2.26E-07	< 3.24E-07	< 2.79E-07	< 5.04E-07	< 2.21E-07	< 2.08E-07	< 1.99E-07	< 2.63E-07	< 2.84E-07	< 8.01E-08	< 2.31E-07	< 8.59E-08	< 1.70E-07	< 7.40E-08	< 2.46E-07	< 2.23E-07
Pentachlorophenol	87-86-5	< 8.15E-07	< 3.25E-07	< 4.65E-07	< 4.81E-07	< 7.92E-07	< 4.14E-07	< 3.00E-07	< 3.39E-07	< 3.78E-07	< 4.08E-07	< 1.34E-07	< 3.32E-07	< 1.43E-07	< 3.22E-07	< 1.25E-07	< 3.74E-07	< 3.22E-07
Phenanthrene	85-01-8	2.32E-07	2.22E-07	1.58E-07	2.58E-07	1.45E-07	1.54E-07	9.03E-08	8.12E-08	2.48E-07	9.52E-08	1.54E-07	9.75E-08	1.27E-07	6.27E-08	1.07E-07	1.13E-07	1.21E-07
Anthracene	120-12-7	< 1.40E-07	< 6.05E-08	< 8.65E-08	< 7.24E-08	< 1.36E-07	< 6.57E-08	< 5.53E-08	< 5.16E-08	< 7.12E-08	< 7.67E-08	< 2.16E-08	< 6.15E-08	< 2.41E-08	< 6.77E-08	< 1.99E-08	< 6.37E-08	< 5.98E-08
Di-n-butylphthalate	84-74-2	5.47E-08	2.11E-06	3.01E-07	1.39E-07	7.80E-07	7.16E-06	8.30E-08	0.00E+00	2.58E-07		4.78E-07	5.40E-08	9.64E-06	2.12E-07	4.47E-07	1.42E-07	3.59E-06
Fluoranthene	206-44-0	7.90E-08	< 6.05E-08	< 8.50E-08	< 6.99E-08	< 1.22E-07	< 5.98E-08	< 5.53E-08	< 4.89E-08	< 6.97E-08	< 7.53E-08	< 2.31E-08	< 6.15E-08	< 2.41E-08	< 6.39E-08	< 2.14E-08	< 5.15E-08	< 5.98E-08
Pyrene	129-00-0	1.34E-07	1.86E-07	8.35E-08	< 1.25E-07	< 1.22E-07	1.15E-07	3.64E-08	< 6.20E-08	2.34E-07	6.54E-08	1.43E-07	4.50E-08	7.08E-08	< 5.76E-08	4.84E-08	4.05E-08	5.09E-08
Butylbenzylphthalate	85-68-7	5.00E-07	2.78E-07	1.97E-07	6.32E-07	5.62E-07	5.41E-07	3.98E-07	3.52E-07	7.37E-07	4.33E-07	3.13E-07	6.51E-07	2.86E-07	2.99E-07	2.63E-07	4.49E-07	5.35E-07
3,3'-Dichlorobenzidine	91-94-1	< 3.69E-07	< 1.61E-07	< 2.46E-07	< 6.06E-07	< 3.45E-07	< 1.33E-07	< 1.53E-07	< 4.08E-07	< 1.81E-07	< 2.05E-07	< 7.55E-08	< 1.64E-07	< 8.59E-08	< 1.60E-07	< 6.55E-08	< 3.23E-07	< 1.72E-07

TRC

Table E.1 - 2 Platen Press

Speciated Semivolatiles

	CAS #	Cmpd. #1 lb/lb rubber	Cmpd. #2 lb/lb rubber	Cmpd. #3 lb/lb rubber	Cmpd. #5 lb/lb rubber	Cmpd. #7 lb/lb rubber	Cmpd. #9 lb/lb rubber	Cmpd. #10 lb/lb rubber	Cmpd. #11 lb/lb rubber	Cmpd. #12 lb/lb rubber	Cmpd. #13 lb/lb rubber	Cmpd. #14 lb/lb rubber	Cmpd. #16 lb/lb rubber	Cmpd. #17 lb/lb rubber	Cmpd. #19 lb/lb rubber	Cmpd. #20 lb/lb rubber	Cmpd. #22 lb/lb rubber	Cmpd. #23 lb/lb rubber
bis(2-Ethylhexyl)phthalate	117-81-7	4.20E-06	2.48E-06	2.14E-06	3.83E-06	1.15E-05	2.60E-06	2.83E-06	1.69E-06	3.63E-06	1.78E-05	2.41E-06	3.07E-06	4.14E-06	4.33E-06	2.57E-06	2.65E-06	6.50E-06
Benzo(a)anthracene	56-55-3	< 1.55E-07	< 6.77E-08	< 1.03E-07	< 1.62E-07	< 1.45E-07	< 4.63E-08	< 6.41E-08	< 1.10E-07	< 7.56E-08	< 8.53E-08	< 3.08E-08	< 6.90E-08	< 3.46E-08	< 6.39E-08	< 2.71E-08	< 9.03E-08	< 7.18E-08
Chrysene	218-01-9	< 1.73E-07	< 7.49E-08	< 1.13E-07	< 1.88E-07	< 1.62E-07	< 5.08E-08	< 6.99E-08	< 1.28E-07	< 8.31E-08	< 9.38E-08	< 3.39E-08	< 7.50E-08	< 3.77E-08	< 6.89E-08	< 2.85E-08	< 1.04E-07	< 7.93E-08
Di-n-octylphthalate	117-84-0	1.73E-07	1.30E-07	< 6.26E-08	< 1.94E-07	< 8.36E-08	9.26E-08	1.69E-07	< 9.01E-08	2.15E-07	< 4.69E-08	5.85E-08	2.46E-07	< 2.11E-08	4.51E-08	1.77E-07	< 1.08E-07	2.60E-07
Benzo(b)fluoranthene	205-99-2	< 1.64E-07	< 6.62E-08	< 1.09E-07	< 2.34E-07	< 1.47E-07	< 4.18E-08	< 6.85E-08	< 1.55E-07	< 7.71E-08	< 8.10E-08	< 2.93E-08	< 6.75E-08	< 3.46E-08	< 6.64E-08	< 2.56E-08	< 1.21E-07	< 7.93E-08
Benzo(k)fluoranthene	207-08-9	< 1.69E-07	< 7.49E-08	< 1.22E-07	< 2.42E-07	< 1.50E-07	< 4.18E-08	< 7.72E-08	< 1.62E-07	< 8.60E-08	< 9.10E-08	< 3.24E-08	< 7.50E-08	< 3.77E-08	< 7.14E-08	< 2.71E-08	< 1.27E-07	< 8.97E-08
Benzo(a)pyrene	50-32-8	< 1.78E-07	< 7.49E-08	< 1.24E-07	< 2.93E-07	< 1.59E-07	< 4.33E-08	< 7.72E-08	< 1.94E-07	< 8.75E-08	< 9.24E-08	< 3.24E-08	< 7.65E-08	< 3.77E-08	< 7.14E-08	< 2.85E-08	< 1.49E-07	< 9.12E-08
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.67E-07	< 7.20E-08	< 1.19E-07	< 4.11E-07	< 1.49E-07	< 3.59E-08	< 7.43E-08	< 2.71E-07	< 8.31E-08	< 8.81E-08	< 3.24E-08	< 7.35E-08	< 3.77E-08	< 7.14E-08	< 2.85E-08	< 1.97E-07	< 8.67E-08
Dibenz(a,h)anthracene	53-90-3	< 2.13E-07	< 9.36E-08	< 1.55E-07	< 5.52E-07	< 1.92E-07	< 4.63E-08	< 9.76E-08	< 3.63E-07	< 1.08E-07	< 1.15E-07	< 4.01E-08	< 9.45E-08	< 4.67E-08	< 8.52E-08	< 3.56E-08	< 2.63E-07	< 1.14E-07
Benzo(g,h,i)perylene	191-24-2	< 1.91E-07	< 8.06E-08	< 1.34E-07	< 4.72E-07	< 1.72E-07	< 3.88E-08	< 8.45E-08	< 3.11E-07	< 9.34E-08	< 9.95E-08	< 3.54E-08	< 8.25E-08	< 4.22E-08	< 8.40E-08	< 3.13E-08	< 2.26E-07	< 9.87E-08
n-Nitrosodimethylamine	62-75-9	< 5.15E-07	< 1.74E-07	< 2.10E-07	< 4.50E-07	< 5.21E-07	< 4.57E-07	< 1.65E-07	< 3.19E-07	< 1.97E-07	< 2.16E-07	< 1.51E-07	< 1.94E-07	< 1.42E-07		< 1.44E-07	< 4.23E-07	< 1.72E-07
Cumene	98-82-8	3.64E-08	5.90E-08	5.96E-08	9.03E-08	7.43E-08	1.18E-06	3.20E-08	3.55E-08	4.00E-08	4.55E-08	5.08E-08	< 4.05E-08	4.82E-08	< 7.27E-08	4.27E-08	9.44E-08	2.24E-08
Aniline	62-53-3	< 1.56E-07	4.16E-07	7.08E-07	2.01E-06	< 1.59E-07	< 1.49E-07	< 5.24E-08	2.61E-07	< 6.38E-08	< 6.96E-08	< 2.93E-08	< 6.15E-08	1.02E-03	< 1.05E-07	< 2.71E-08	4.26E-06	2.83E-06
Benzyl Chloride	100-44-7	< 1.38E-07	< 4.75E-08	< 5.81E-08	< 1.11E-07	< 1.39E-07	< 1.28E-07	< 4.52E-08	< 7.83E-08	< 5.49E-08	< 5.97E-08	< 2.62E-08	< 5.25E-08	< 2.56E-08	< 6.39E-08	< 2.56E-08	< 1.08E-07	< 4.79E-08
Acetophenone	98-86-2	5.09E-07	1.39E-06	4.25E-07	0.00E+00	8.74E-07	4.40E-04	4.36E-07	0.00E+00	2.17E-06	5.05E-07	2.16E-06	6.44E-07	6.49E-07	2.21E-07	8.33E-07	0.00E+00	3.37E-07
n-Nitrosomorpholine	59-89-2	< 4.74E-07	< 1.64E-07	< 1.97E-07	< 2.94E-07	< 4.80E-07	< 3.45E-07	< 1.54E-07	< 2.09E-07	< 1.84E-07	< 2.03E-07	< 8.63E-08	< 1.80E-07	< 8.13E-08	< 1.77E-07	< 8.26E-08	< 2.98E-07	< 1.60E-07
o-Toluidine	95-53-4	< 1.82E-07	1.59E-06	< 8.05E-08	< 1.39E-07	< 1.84E-07	< 1.51E-07	< 6.26E-08	< 9.86E-08	2.21E-06	< 8.24E-08	< 3.24E-08	< 7.35E-08	< 3.01E-08	< 1.13E-07	< 2.99E-08	< 1.05E-07	< 6.58E-08
N,N-Dimethylaniline	96-12-8	< 1.65E-07	< 7.06E-08	< 8.50E-08	< 1.25E-07	< 1.72E-07	< 1.34E-07	< 6.41E-08	< 8.72E-08	< 8.16E-08	< 8.39E-08	< 3.08E-08	< 7.65E-08	< 3.01E-08	< 1.15E-07	< 2.99E-08	< 1.23E-07	< 6.58E-08
1,2-Dibromo-3-chloropropane	121-49-7	< 5.28E-07	< 1.92E-07	< 2.31E-07	< 3.81E-07	< 5.37E-07	< 4.21E-07	< 1.81E-07	< 2.70E-07	< 2.17E-07	< 2.37E-07	< 8.94E-08	< 2.12E-07	< 8.43E-08	< 2.54E-07	< 8.54E-08	< 3.59E-07	< 1.88E-07
o-Anisidine	90-04-0	< 3.14E-07	< 1.28E-07	< 1.57E-07	< 2.49E-07	< 3.27E-07	< 2.35E-07	< 1.17E-07	< 1.73E-07	< 1.48E-07	< 1.53E-07	< 5.70E-08	< 1.40E-07	< 5.72E-08	< 2.12E-07	< 5.41E-08	< 2.48E-07	< 1.21E-07
1,4-Phenylenediamine	106-50-3	< 3.70E-07	< 1.56E-07	< 1.91E-07	< 3.32E-07	< 3.84E-07	< 2.33E-07	< 1.43E-07	< 2.31E-07	< 1.81E-07	< 1.86E-07	< 7.70E-08	< 1.71E-07	< 7.53E-08	< 1.64E-07	< 7.26E-08	< 3.47E-07	< 1.48E-07
N,N-Diethylaniline	91-66-7	< 1.49E-07	< 5.47E-08	< 6.56E-08	< 1.06E-07	< 1.50E-07	< 1.15E-07	< 5.10E-08	< 7.50E-08	< 6.08E-08	< 6.68E-08	< 2.77E-08	< 6.00E-08	< 2.71E-08	< 9.52E-08	< 2.71E-08	< 1.09E-07	< 5.38E-08
a,a,a-Trichlorotoluene	98-07-7	< 2.00E-07	< 8.50E-08	< 1.04E-07	< 1.52E-07	< 2.09E-07	< 1.61E-07	< 7.72E-08	< 1.05E-07	< 9.94E-08	< 1.02E-07	< 3.54E-08	< 9.30E-08	< 3.46E-08	< 9.65E-08	< 3.27E-08	< 1.44E-07	< 8.08E-08
Hydroquinone	123-31-9	< 2.46E-07	< 9.65E-08	< 1.19E-07	< 2.27E-07	< 2.55E-07	< 2.02E-07	< 8.88E-08	< 1.56E-07	< 1.13E-07	< 1.17E-07	< 5.70E-08	< 1.07E-07	< 5.57E-08	< 2.12E-07	< 5.27E-08	< 2.12E-07	< 9.12E-08
2-Chloroacetophenone	1341-24-8	< 1.20E-07	< 4.90E-08	< 5.96E-08	< 9.18E-08	< 1.25E-07	< 9.41E-08	< 4.37E-08	< 6.33E-08	< 5.64E-08	< 5.83E-08	< 2.16E-08	< 5.25E-08	< 2.11E-08	< 7.64E-08	< 1.99E-08	< 9.24E-08	< 4.64E-08
Biphenyl	92-52-4	< 1.28E-07	< 5.62E-08	1.40E-07	3.06E-07	< 1.30E-07	< 9.41E-08	< 5.24E-08	< 5.91E-08	< 6.82E-08	< 6.96E-08	< 2.31E-08	< 6.00E-08	< 2.41E-08	< 7.77E-08	< 2.14E-08	< 7.75E-08	< 5.38E-08
Trifluralin	1582-09-8	< 9.03E-07	< 3.67E-07	< 5.05E-07	< 4.45E-07	< 9.18E-07	< 3.59E-07	< 3.44E-07	< 3.13E-07	< 4.48E-07	< 4.53E-07	< 1.40E-07	< 3.90E-07	< 1.43E-07	< 2.93E-07	< 1.30E-07	< 3.90E-07	< 3.56E-07
4-Aminobiphenyl	92-67-1	< 1.58E-07	< 7.34E-08	< 1.06E-07	< 1.05E-07	< 1.55E-07	< 9.41E-08	< 6.85E-08	< 7.43E-08	< 8.60E-08	< 9.24E-08	< 2.93E-08	< 7.50E-08	< 3.16E-08	< 7.89E-08	< 2.71E-08	< 8.67E-08	< 7.33E-08
Pentachloronitrobenzene	82-68-8	< 1.16E-06	< 5.26E-07	< 7.53E-07	< 6.55E-07	< 1.13E-06	< 7.34E-07	< 4.85E-07	< 4.69E-07	< 6.11E-07	< 6.61E-07	< 2.26E-07	< 5.37E-07	< 2.41E-07	< 5.07E-07	< 2.09E-07	< 5.86E-07	< 5.19E-07
4-Nitrobiphenyl	92-93-3	< 3.37E-07	< 1.45E-07	< 2.09E-07	< 2.13E-07	< 3.27E-07	< 1.91E-07	< 1.34E-07	< 1.49E-07	< 1.69E-07	< 1.83E-07	< 6.47E-08	< 1.49E-07	< 6.93E-08	< 1.75E-07	< 5.98E-08	< 1.61E-07	< 1.44E-07
Benzidine	92-87-5	< 1.91E-07	< 8.50E-08	< 1.28E-07	4.54E-06	< 1.78E-07	< 7.62E-08	< 8.01E-08	< 2.92E-07	< 9.49E-08	< 1.07E-07	< 4.62E-08	< 8.55E-08	< 5.12E-08	< 1.03E-07	< 3.84E-08	2.79E-07	< 8.97E-08
4,4'-Methylenedianiline	101-77-9	< 3.64E-07	< 1.64E-07	< 2.49E-07	< 4.71E-07	< 3.40E-07	< 1.54E-07	< 1.56E-07	< 3.26E-07	< 1.84E-07	< 2.07E-07	< 7.86E-08	< 1.67E-07	< 8.89E-08	< 1.72E-07	< 6.69E-08	< 2.99E-07	< 1.75E-07
Dimethylaminoazobenzene	60-11-7	< 3.19E-07	< 1.43E-07	< 2.16E-07	< 2.78E-07	< 2.99E-07	< 1.14E-07	< 1.35E-07	< 1.90E-07	< 1.60E-07	< 1.80E-07	< 6.47E-08	< 1.44E-07	< 7.38E-08	< 2.02E-07	< 5.55E-08	< 1.64E-07	< 1.53E-07
3,3'-Dimethylbenzidine	119-93-7	< 1.93E-07	< 9.36E-08	< 1.42E-07	< 2.39E-07	< 1.81E-07	< 7.32E-08	< 8.74E-08	< 1.64E-07	< 1.04E-07	< 1.18E-07	< 4.47E-08	< 9.45E-08	< 4.97E-08	< 9.15E-08	< 3.84E-08	< 1.46E-07	< 9.87E-08
3,3'-Dimethoxybenzidine	119-90-4	< 3.86E-07	< 1.84E-07	< 2.79E-07	< 6.81E-07	< 3.61E-07	< 1.94E-07	< 1.73E-07	< 4.67E-07	< 2.06E-07	< 2.33E-07	< 9.09E-08	< 1.86E-07	< 1.02E-07	< 1.68E-07	< 7.69E-08	< 4.03E-07	< 1.96E-07
Methylene bis-chloroaniline	101-14-4	< 6.45E-07	< 3.02E-07	< 4.61E-07	< 8.56E-07	< 6.04E-07	< 2.64E-07	< 2.85E-07	< 5.85E-07	< 3.40E-07	< 3.82E-07	< 1.49E-07	< 3.06E-07	< 1.67E-07	< 2.68E-07	< 1.28E-07	< 5.00E-07	< 3.23E-07
3-Furaldehyde	498-60-2	< 4.81E-07	< 1.57E-07	< 1.89E-07	< 4.13E-07	< 4.89E-07	< 4.14E-07	< 1.49E-07	< 2.92E-07	< 1.78E-07	< 1.95E-07	< 8.16E-08	< 1.74E-07	< 7.83E-08	< 3.32E-07	< 7.83E-08	< 3.90E-07	< 1.54E-07
2-Furaldehyde	98-01-1	1.93E-07	4.81E-07	2.56E-07	2.21E-07	3.50E-07	2.50E-07	1.89E-07	1.57E-07	8.75E-07	1.05E-07	2.28E-07	2.58E-07	< 7.38E-08	< 2.83E-07	3.15E-07	8.85E-08	8.82E-08
Cyclohexylamine	108-91-8	< 5.03E-07	< 1.38E-07	< 1.65E-07	< 5.98E-05	< 5.11E-07	< 2.76E-07	< 1.30E-07	< 1.64E-06	< 1.56E-07	< 1.71E-07	< 6.16E-08	< 1.53E-07	< 5.72E-08	< 1.83E-07	< 5.84E-08	< 5.29E-07	< 1.36E-07
N-Nitrosodiethylamine	*55-18-5*	*< 6.35E-07*	*< 2.30E-07*	*< 2.77E-07*	*< 4.45E-07*	*< 6.44E-07*	*< 4.42E-07*	*< 2.17E-07*	*< 3.15E-07*	*< 2.60E-07*	*< 2.86E-07*	*< 9.55E-08*	*< 2.55E-07*	*< 9.04E-08*	*< 4.08E-07*	*< 9.11E-08*	*< 4.08E-07*	*< 2.27E-07*
Cyclohexanone	108-94-1	4.49E-07	< 1.60E-07	6.40E-07	6.89E-06	< 4.78E-07	2.94E-07	< 1.50E-07	2.47E-07	3.23E-07	< 1.98E-07	4.71E-07	3.14E-07	< 6.78E-08	< 1.84E-07	8.97E-08	2.95E-07	6.88E-07
1,3-Cyclooctadiene	1700-10-3	< 3.20E-07	< 1.01E-07	< 1.21E-07	< 2.13E-07	< 3.25E-07	< 2.69E-07	< 9.47E-08	< 1.52E-07	< 1.14E-07	< 1.25E-07	< 5.55E-08	< 1.11E-07	< 5.12E-08	< 1.44E-07	< 5.27E-08	< 2.11E-07	< 9.87E-08
1,5-Cyclooctadiene	111-78-4	< 7.36E-07	< 2.42E-07	< 2.89E-07	< 4.87E-07	< 7.47E-07	< 5.87E-07	< 2.27E-07	< 3.46E-07	< 2.71E-07	< 2.98E-07	< 1.31E-07	< 2.67E-07	< 1.24E-07	< 3.42E-07	< 1.25E-07	< 4.85E-07	< 2.36E-07
Camphene	79-92-5	8.59E-07	6.70E-07	6.49E-07	< 6.73E-07	1.07E-06	8.95E-07	7.27E-07	5.68E-07	8.11E-07	< 1.28E-07	7.07E-07	8.69E-07	< 5.12E-08	< 1.64E-07	6.59E-07	6.47E-07	4.53E-07
Benzaldehyde	100-52-7	9.22E-07	1.09E-06	1.05E-06	6.60E-07	1.10E-06	9.22E-07	8.94E-07	5.88E-07	1.40E-06	8.83E-07	1.25E-06	3.58E-06	< 6.48E-08	1.82E-05	1.03E-06	4.86E-07	5.46E-07
Benzonitrile	100-47-0	< 1.64E-07	< 5.90E-08	< 7.16E-08	< 1.02E-07	< 1.66E-07	3.20E-06	< 5.68E-08	< 7.21E-08	< 6.67E-08	< 7.39E-08	< 2.46E-08	1.28E-07	< 2.26E-08	< 9.77E-08	< 2.28E-08	3.88E-07	< 5.83E-08
Isooctanol	26952-21-6	< 3.91E-06	< 1.34E-06	3.25E-06	< 2.26E-06	< 3.97E-06	< 2.78E-06	4.13E-06	7.50E-05	< 1.51E-06	< 1.66E-06	< 6.62E-07	3.06E-06	< 6.27E-07	< 2.08E-06	< 6.34E-07	< 2.13E-06	< 1.32E-06
1,2,4-Trimethylbenzene	95-63-6	7.36E-07	7.80E-07	6.95E-07	5.80E-07	5.86E-07	4.47E-07	2.52E-07	1.67E-07	3.32E-07	< 6.82E-08	8.60E-07	3.81E-07	5.23E-07	7.48E-07	6.51E-07	4.21E-07	2.81E-07
3-Methylstyrene	100-80-1	< 2.63E-07	5.33E-08	4.77E-08	< 1.47E-07	< 2.66E-07	< 1.63E-07	< 8.45E-08	< 1.04E-07	< 1.02E-07	< 1.12E-07	6.93E-08	< 1.01E-07	4.52E-08	< 1.60E-07	4.27E-08	< 1.45E-07	< 8.82E-08
4-Methylstyrene	622-97-9	< 2.63E-07	< 9.36E-08	< 1.12E-07	< 1.61E-07	< 2.66E-07	< 1.70E-07	< 8.88E-08	< 1.14E-07	< 1.05E-07	< 1.17E-07	< 4.31E-08	< 1.04E-07	< 4.07E-08	< 1.72E-07	< 4.13E-08	< 1.54E-07	< 9.27E-08
4-Chlorostyrene	1073-67-2	< 3.01E-07	2.89E-07	< 1.33E-07	< 1.81E-07	< 3.05E-07	< 1.94E-07	< 1.05E-07	1.52E-07	2.89E-07	< 1.38E-07	< 4.93E-08	< 1.23E-07	< 4.67E-08	< 1.60E-07	< 4.70E-08	< 1.74E-07	< 1.09E-07
1-Dodecene	112-41-4	< 1.28E-06	< 4.91E-07	< 6.01E-07	< 8.81E-07	< 1.33E-06	< 9.13E-07	< 4.49E-07	< 6.10E-07	< 5.70E-07	< 5.88E-07	< 2.26E-07	< 5.37E-07	< 2.23E-07	< 9.34E-07	< 2.14E-07	< 8.63E-07	< 4.65E-07
Phthalimide	*85-41-6*	*< 8.70E-07*	*< 3.53E-07*	*3.47E-06*	*< 4.21E-07*	*< 8.84E-07*	*< 3.81E-07*	*1.83E-06*	*< 1.48E-07*	*7.33E-07*	*< 4.36E-07*	*2.08E-06*	*5.68E-06*	*8.56E-06*	*< 4.61E-07*	*1.42E-07*	*< 2.78E-07*	*1.63E-05*
Diphenylamine	122-39-4	< 2.03E-07	4.06E-07	1.15E-07	5.56E-07	< 2.06E-07	4.54E-06	1.09E-07	9.81E-07	1.01E-06	3.04E-07	8.69E-06	3.77E-07	7.08E-08	< 1.09E-07	2.28E-08	3.17E-07	2.69E-08
Total detected		1.13E-05	1.89E-05	1.90E-05	2.61E-05	2.15E-05	4.68E-04	1.50E-05	8.28E-05	1.81E-05	2.21E-05	2.77E-05	2.56E-05	1.04E-03	5.23E-05	1.18E-05	1.42E-05	3.51E-05
Total with non-detects		< 5.07E-05	< 3.32E-05	< 3.56E-05	< 1.14E-04	< 6.05E-05	< 4.97E-04	< 2.70E-05	< 1.07E-04	< 3.46E-05	< 4.09E-05	< 3.42E-05	< 3.91E-05	< 1.05E-03	< 7.23E-05	< 1.76E-05	< 3.73E-05	< 4.90E-05

TRC

Table E.1 - 3 Plates Press
Speciated Volatiles

Compounds	CAS Numbers	Cmpd 1 µg/m³	Cmpd 2 µg/m³	Cmpd 3 µg/m³	Cmpd 5 µg/m³	Cmpd 7 µg/m³	Cmpd 9 µg/m³	Cmpd10 µg/m³	Cmpd 11 µg/m³	Cmpd 12 µg/m³	Cmpd 13 µg/m³	Cmpd 14 µg/m³	Cmpd 16 µg/m³	Cmpd 17 µg/m³	Cmpd 19 µg/m³	Cmpd 20 µg/m³	Cmpd 22 µg/m³	Cmpd 23 µg/m³
1-Butanol	00071-36-3			30				30			80	40	30	30				
1-Chloro-4-)1-Chloroethenyl)-Cyclohexene									19.00									
1-Chloro-5-)1-Chloroethenyl)-Cyclohexene									12.33									
1-Heptene	592-76-7	< 4.08	< 4.08	< 4.08	< 4.97	< 8.17	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08
1-Hexene	592-41-6	< 3.50	< 3.50	< 3.50	< 4.26	< 7.00	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50
1-Octene	111-60-0	< 4.67	< 4.67	< 4.67	< 5.68	< 9.34	< 4.67	< 4.67	< 4.67	< 4.67	< 4.67	< 4.67	< 4.67	< 4.67	< 4.67	< 4.67	< 4.67	< 4.67
1-Pentene	109-67-1	< 2.92	44.93	25.67	< 4.96	< 5.83	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	5.19	641.83	< 2.92	< 2.92	< 2.92	< 2.92
1,1-Dichloroethane	00075-34-3	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,1-Dichloroethene	00075-35-4	< 8	< 20	< 8	< 4.30	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,1-Difluoroethane	00075-34-3								63.33								30.00	
1,1,1-Trichloroethane	00071-55-6	11	6	10	11.37	13	11	8	< 11.33	100	1200	6.4	7.8	48	7.8	11	15.00	6.6
1,1,2-Trichloroethane	00079-00-5	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,1,2,2-Tetrachloroethane	00079-34-5	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,2-Dibromo-3-Chloropropane	00096-12-8	< 16	< 40	< 16	< 8.00	< 80	< 16	< 16	< 8.00	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 32.00	< 16
1,2-Dibromoethane	00106-93-4	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,2-Dichlorobenzene	00095-50-1	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,2-Dichloroethane	00107-06-2	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,2-Dichloropropane	00078-87-5	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,2,4-Trimethylbenzene	95-63-6	< 25.00	< 25.00	< 25.00	< 24.35	< 50.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	1924.90	< 25.00	< 25.00	< 25.00
1,3-Butadiene	106-99-0	< 2.25	38.25	< 2.25	17.44	29.25	19.69	23.63	< 3.75	< 2.25	< 2.25	67.50	< 2.25	< 2.25	34.88	84.38	< 2.25	21.94
1,3-Dichlorobenzene	00541-73-1	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,3-Dioxolane					3.33													
1,3,5-Trimethylbenzene	108-67-8	< 25.00	< 25.00	< 25.00	< 30.83	< 50.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 21.67	< 25.00
1,4-Dichloro-1,3-Butadiene	02984-42-1								2.67									
1,4-Dichlorobenzene	00106-46-7	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 27.92	< 27.92	< 27.92	< 34.43	< 55.83	217.75	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92
1,4-Dioxane	00123-91-1	< 32	< 80	< 32	< 17.33	< 160	< 32	< 32	< 16.00	< 32	< 80	< 32	< 32	< 32	< 80	< 32	< 64.00	< 32
2-Butanone	00078-93-3	5.7	8.8	9.2	6.10	< 80	7.9	< 16	< 7.23	3.9	< 40	< 16	3.8	< 16	45	5.8	< 32.00	4.2
2-Butene	00126-99-8				2.67												16.67	
2-Chloro-1,3-Butadiene	00126-99-8								36.67								13.33	
2-Hexanone	00591-78-6	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
2-Methyl-1-butene	563-46-2	< 2.92	< 2.92	7.00	< 3.55	< 5.83	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92
2-Methyl-2-butene	513-35-9	< 2.92	< 2.92	< 2.92	< 3.55	< 5.83	700.17	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 314.11	< 2.92
2-Methyl-2-pentene	625-27-4	< 3.50	< 3.50	< 3.50	< 4.26	< 7.00	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50
2-Methylheptane	592-27-8	< 4.75	< 4.75	< 4.75	< 5.78	< 9.50	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75
2-Methylhexane	591-76-4	< 4.17	< 4.17	< 4.17	< 5.07	< 8.34	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17
2-Methylpentane	107-83-5	3.52	4.60	< 3.58	< 3.41	< 7.17	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	13.08	3.58	< 3.58	< 3.58
2,2-Dimethylbutane	75-83-2	< 3.58	< 3.58	< 3.58	< 4.36	< 7.17	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	< 3.58	2.93	< 3.58	< 3.58
2,2-Dimethylpropane	463-82-1	< 3.00	< 3.00	< 3.00	< 3.65	< 6.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
2,3-Dimethylpentane	565-59-3	< 4.17	< 4.17	< 4.17	< 5.07	< 8.34	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17
2,3,4-Trimethylpentane	565-75-3	< 4.75	< 4.75	< 4.75	< 5.78	< 9.50	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75
2,4-Dimethylhexane	589-43-5	< 4.75	< 4.75	< 4.75	< 5.78	< 9.50	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75
3-Heptanone	00106-35-4								3.00								10.00	
3-Methylhexane	589-34-4	< 4.17	< 4.17	< 4.17	7.92	< 8.34	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17
3-Methylpentane	96-14-0	3.76	7.77	4.06	< 5.44	< 7.17	< 3.58	< 3.58	20.51	3.52	< 3.58	< 3.58	< 3.58	< 3.58	39.43	4.60	< 3.58	< 3.58
4-Methyl-1-pentene	691-37-2	< 3.50	< 3.50	< 3.50	< 4.26	< 7.00	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50
4-Methyl-2-pentanone	00108-10-1	< 8	< 20	370	< 4.70	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 73.67	< 8
Acetaldehyde	00075-07-0				20.00		20		6.67								13.33	
Acetone	00067-64-1	38	70	51	156.67	53	180	32	111.00	38		46	33	38	3100	37	85.00	31
Acetonitrile	01722-09-4	< 16	< 40	< 16	16.33	< 80	< 16	< 16	< 8.00	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 32.00	< 16
Acetophenone	00098-86-2						300										13.33	
Acetylene	74-86-2	2.71	4.22	3.14	< 1.99	< 2.17	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	2.82	< 1.08	4.55	5.96	3.03	< 2.38	< 1.08
Acrolein	00107-02-8	< 16	< 40	< 16	< 7.93	< 80	< 16	< 16	< 8.00	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 32.00	< 16
Acrylonitrile	00107-13-1	< 16	< 40	< 16	< 8.00	< 80	< 16	< 16	< 8.00	< 16	< 40	94	< 16	< 16	< 40	< 16	< 32.00	< 16
Allyl Chloride	00107-05-1	< 16	< 40	< 16	< 8.00	< 80	< 16	< 16	< 8.00	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 32.00	< 16
Alpha-Methyl Styrene					3.33		80										6.67	
a-Pinene	7785-70-8	< 5.67	< 5.67	< 5.67	< 6.89	< 11.33	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67	< 5.67
Benzene	71-43-2	3.36	4.33	3.74	< 3.39	< 6.50	< 3.25	< 3.25	< 3.25	< 3.25	< 3.25	3.57	3.14	3.36	19.50	3.30	< 3.63	< 3.25
Benzyl Chloride	00100-44-7	< 16	< 40	< 16	< 8.00	< 80	< 16	< 16	< 8.00	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 32.00	< 16
b-Pinene	18172-67-3	< 28.34	< 28.34	< 28.34	< 22.67	< 56.67	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34
Bromodichloromethane	00075-27-4	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
Bromoform	00075-25-2	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
Bromomethane	00074-83-9	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
Butane		30		30							400	40						
C12H24 Branched Alkene															200			
C9-C10 Branched Alkane																		
Carbon Disulfide	00075-15-0	6.7	1700	10	10.33	< 40	11	4200	1400.00	1900	3200	2700	18	20	< 20	14	543.67	28
Carbon Tetrachloride	00056-23-5	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
Carbonyl Sulfide	00463-58-1								2.67	30		50						
Chlorobenzene	00108-90-7	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
Chlorodifluoromethane					3.33													
Chloroethane	00075-00-3	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	4.7	< 8	< 20	< 8	< 16.00	< 8
Chloroform	00067-66-3	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8

TRC

Table E.1 - 3 Platen Press
Speciated Volatiles

	Compounds	CAS Number	Cmpd 1 µg/m³	Cmpd 2 µg/m³	Cmpd 3 µg/m³	Cmpd 5 µg/m³	Cmpd 7 µg/m³	Cmpd 9 µg/m³	Cmpd10 µg/m³	Cmpd 11 µg/m³	Cmpd 12 µg/m³	Cmpd 13 µg/m³	Cmpd 14 µg/m³	Cmpd 16 µg/m³	Cmpd 17 µg/m³	Cmpd 19 µg/m³	Cmpd 20 µg/m³	Cmpd 22 µg/m³	Cmpd 23 µg/m³
1	Chloromethane	00074-87-3	3.3	< 20	2.5	< 4.00	< 40	< 8	< 8	< 4.00	2.9	< 20	< 8	2.1	3.3	< 20	3.2	< 16.00	3.4
1	cis-1,2-Dichloroethene	00156-59-2	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1	cis-1,3-Dichloropropene	10061-01-5	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
	cis-2-Butene	590-18-1	< 2.33	< 2.33	< 2.33	< 2.84	< 4.67	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33
	cis-2-Hexene	7688-21-3	< 3.50	< 3.50	< 3.50	< 4.26	< 7.00	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50
	cis-2-Pentene	627-20-3	355.92	140.03	548.47	141.20	151.70	< 2.92	344.25	464.84	484.29	< 2.92	583.48	420.10	297.57	1035.67	641.83	< 161.43	320.91
	Cumene	98-82-8	< 5.00	< 5.00	< 5.00	< 6.08	< 10.00	7.22	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1 *	Cyclobutane				50														
	Cyclohexane	110-82-7	< 3.50	< 3.50	< 3.50	< 4.26	< 7.00	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50
1 *	Cyclohexanone	00108-94-1				40.00													
1 *	Cyclohexene	00110-82-7				9.33													
1 *	Cyclooctadiene												70						
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	2.47	5.20	4.68	< 4.88	< 6.50	< 3.25	< 3.25	< 3.25	< 3.25	< 3.25	< 3.25	< 3.25	< 3.25	15.93	2.28	< 3.25	< 3.25
	Cyclopentene	142-29-0	< 2.83	< 2.83	< 2.83	< 3.45	< 5.67	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83
1	Dibromochloromethane	00124-48-1	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1	Dichlorodifluoromethane	00075-71-8	5	< 20	7.6	< 4.00	< 40	< 8	3.3	< 4.00	5.7	< 20	6.4	9.4	4.8	< 20	5.1	< 16.00	3.8
	d-Limonene	5989-27-5	< 28.34	< 28.34	< 28.34	< 34.95	< 56.67	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34	< 28.34
1	Epichlorohydrin	00106-89-8	< 16	< 40	< 16	< 8.00	< 80	< 16	< 16	< 8.00	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 32.00	< 16
	Ethane	74-84-0	11.88	11.88	8.13	17.93	14.38	18.14	10.63	14.80	12.51	9.38	11.88	12.51	< 1.25	< 1.25	5.32	15.64	11.88
1 *	Ethanol					6.67			300			60		100	2000				
	Ethylacetylene	107-00-6	< 2.25	< 2.25	< 2.25	< 2.74	< 4.50	< 2.25	< 2.25	< 2.25	< 2.25	< 2.25	< 2.25	< 2.25	< 2.25	< 2.25	< 2.25	< 2.25	< 2.25
	Ethylbenzene	100-41-4	< 4.42	< 4.42	< 4.42	4.01	< 8.83	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42
	Ethylene	74-85-1	6.42	6.42	5.13	< 4.59	< 2.33	< 1.17	< 1.17	< 3.21	< 1.17	< 1.17	4.26	< 1.17	< 1.17	< 1.17	5.19	< 4.28	< 1.17
1	Hexachlorobutadiene	00087-68-3	< 16	< 40	< 16	< 8.00	< 80	< 16	< 16	< 8.00	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 32.00	< 16
	Isobutane	75-28-5	7.25	6.65	6.65	< 2.94	9.07	< 2.42	< 2.42	< 2.72	< 2.42	< 2.42	5.74	< 2.42	< 2.42	25.39	< 2.42	< 3.18	6.65
	Isobutylene + 1-Butene	115-11-7/106-98-9	105.03	< 2.33	110.86	4.80	< 4.67	< 2.33	< 2.33	38.12	256.73	< 2.33	< 2.33	151.70	256.73	37.34	< 2.33	69.43	< 2.33
	Isooctane	540-84-1	< 4.75	< 4.75	< 4.75	< 5.78	< 9.50	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75
	Isopentane	78-78-4	35.41	43.82	40.82	104.04	28.81	66.03	20.41	100.04	19.21	< 3.00	24.01	22.81	54.02	3151.30	27.61	37.82	17.41
	Isoprene	78-79-5	< 2.83	1.36	< 2.83	< 3.45	< 5.67	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83	< 2.83
1 *	Isopropanol	00067-63-0	30	200	100	16.67				3.33	60			40	2000				30
	Methylacetylene	74-99-7	< 1.62	< 1.62	< 1.62	< 1.98	< 3.25	< 1.62	< 1.62	< 1.62	< 1.62	< 1.62	< 1.62	< 1.62	< 1.62	< 1.62	< 1.62	< 1.62	< 1.62
	Methylcyclohexane	108-87-2	< 4.08	< 4.08	< 4.08	< 4.97	< 8.17	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08	< 4.08
	Methylcyclopentane	96-37-7	4.96	7.00	8.17	6.15	< 7.00	5.43	< 3.50	5.31	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	59.51	9.34	< 3.50	< 3.50
1	Methylene Chloride	00075-09-2	3900	1300	7200	524.67	1600	12000	3700	6933.33	5300	3800	8100	5000	3500	680	8200	7666.67	3700
	m-Ethyltoluene	620-14-4	< 5.00	< 5.00	< 5.00	< 6.08	< 10.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
	m-Xylene + p-Xylene	108-38-3/106-42-3	3.15	6.07	28.71	27.60	9.94	< 4.42	< 4.42	< 4.38	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.71	< 4.42
1 *	Naphthalene																	10.00	
	n-Butane	106-97-8	41.10	23.57	39.29	9.19	21.16	6.65	8.46	6.29	< 2.42	< 2.42	21.16	< 2.42	28.41	26.60	25.99	11.69	9.07
	n-Decane	124-18-5	< 29.59	< 29.59	< 29.59	7.89	< 59.19	< 29.59	< 29.59	< 29.59	< 29.59	< 29.59	< 29.59	< 29.59	< 29.59	< 29.59	< 29.59	< 29.59	< 29.59
	n-Heptane	142-82-5	< 4.17	< 4.17	< 4.17	< 5.07	< 8.34	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17	< 4.17
	n-Hexane	110-54-3	23.24	32.86	22.11	49.59	28.62	42.90	13.08	125.86	8.90	< 3.58	20.25	16.67	16.73	1039.57	86.57	28.40	16.07
	n-Nonane	111-84-2	< 5.34	< 5.34	< 5.34	< 6.49	< 10.67	< 5.34	< 5.34	< 5.34	< 5.34	< 5.34	< 5.34	< 5.34	< 5.34	< 5.34	< 5.34	< 5.34	< 5.34
	n-Octane	111-65-9	< 4.75	< 4.75	< 4.75	< 5.78	< 9.50	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75
	n-Pentane	109-66-0	3.90	10.80	< 3.00	< 3.56	< 6.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	13.21	< 3.00	< 3.00	8.25	9.60	< 3.00	< 3.00
	n-Propylbenzene	103-65-1	< 5.00	< 5.00	< 5.00	< 6.08	< 10.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	19.50	< 5.00	< 5.00	< 5.00
1 *	n-Undecane	00112-21-4				40.00				3.00									
	o-Ethyltoluene	611-14-3	< 25.00	< 25.00	< 25.00	< 30.83	< 50.00	38.33	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	< 19.07	< 25.00
	o-Xylene	95-47-6	< 4.42	< 4.42	< 4.42	6.02	5.52	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42	< 4.42
	p-Cymene	99-87-6	< 27.92	< 27.92	< 27.92	< 27.92	< 55.83	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92	< 27.92
	p-Ethyltoluene	622-96-8	< 5.00	< 5.00	< 5.00	< 6.08	< 10.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
	Propane	74-98-6	9.78	< 1.83	6.11	13.10	9.17	5.93	5.93	5.91	< 1.83	< 1.83	8.56	< 1.83	< 1.83	< 1.83	< 1.83	< 5.58	5.99
	Propylene	115-07-1	2.45	3.03	< 1.75	3.68	< 3.50	< 1.75	< 1.75	< 3.77	< 1.75	9.34	< 1.75	< 1.75	< 1.75	< 1.75	< 1.75	< 1.94	< 1.75
1	Propylene Oxide	00075-56-9	< 16	330	< 16	< 8.00	< 80	< 16	< 16	146.67	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 88.67	< 16
	Styrene	100-42-5	< 4.33	< 4.33	< 4.33	< 5.27	< 8.66	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33
1	t-Butyl Methyl Ether	01634-04-4	< 16	< 40	< 16	< 8.00	< 80	< 16	< 16	< 8.00	< 16	< 40	< 16	< 16	< 16	< 40	< 16	< 32.00	< 16
1 *	tert-Butyl Alcohol				30				100		100	90			40	400			
1	Tetrachloroethene	00127-18-4	< 8	< 20	1.7	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
	Toluene	108-88-3	13.14	19.71	19.16	35.23	9.31	7.12	8.76	9.31	9.86	< 3.83	12.05	125.93	10.40	34.50	14.78	14.05	18.07
1	trans-1,2-Dichloroethene	00156-60-5	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1	trans-1,2-Dichloropropene	10061-01-5	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
	trans-2-Butene	624-64-6	< 2.33	< 2.33	< 2.33	< 2.84	< 4.67	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33	< 2.33
	trans-2-Hexene	4050-45-7	< 3.50	< 3.50	< 3.50	< 18.07	< 7.00	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50	< 3.50
	trans-2-Pentene	646-04-8	< 2.92	1.28	< 2.92	< 3.55	< 5.83	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92	< 2.92
1	Trichloroethene	00079-01-6	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1	Trichlorofluoromethane	00075-69-4	9.6	< 20	8.8	8.90	< 40	< 8	7.6	5.90	10	< 20	9	10	5.8	< 20	11	< 16.30	7.3
1	Trichlorotrifluoroethane	00076-13-1	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1	Vinyl Acetate	00108-05-4	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1	Vinyl Chloride	00075-01-4	< 8	< 20	< 8	< 4.00	< 40	< 8	< 8	< 4.00	< 8	< 20	< 8	< 8	< 8	< 20	< 8	< 16.00	< 8
1 *	(1-Methoxy-1-Methylethyl)-Benzene							40											
	TOTAL Detected		4678.77	4040.61	8802.70	1335.48	1982.93	13785.24	8818.06	9534.66	8345.52	8894.72	11927.28	6021.86	9003.50	11924.10	9217.43	8600.69	4242.29
	TOTAL with non-detects		< 5473.01	< 5484.10	< 9583.45	< 1968.92	< 5123.10	< 14573.17	< 9667.39	< 10171.12	< 9171.44	< 10474.14	< 12749.70	< 6837.20	< 9840.59	< 13412.52	< 10018.60	< 10519.56	< 5065.21

1 - Results from Method TO-14 * - Tentatively Identified Compound

Table E.1 - 3 Platen Press
Speciated Volatiles

Compounds	CAS Numbers	Cmpd 1 lb/hr	Cmpd 2 lb/hr	Cmpd 3 lb/hr	Cmpd 5 lb/hr	Cmpd 7 lb/hr	Cmpd 9 lb/hr	Cmpd10 lb/hr	Cmpd 11 lb/hr	Cmpd 12 lb/hr	Cmpd 13 lb/hr	Cmpd 14 lb/hr	Cmpd 16 lb/hr	Cmpd 17 lb/hr	Cmpd 19 lb/hr	Cmpd 20 lb/hr	Cmpd 22 lb/hr	Cmpd 23 lb/hr
1 * 1-Butanol	00071-36-3			4.72E-06				4.72E-06			1.26E-05	6.29E-06	4.72E-06	4.72E-06				
1 * 1-Chloro-4-)1-Chloroethenyl)-Cyclohexene									3.56E-06									
1 * 1-Chloro-5-)1-Chloroethenyl)-Cyclohexene									2.31E-06									
1-Heptene	592-76-7	< 6.58E-07	< 6.43E-07	< 6.43E-07	< 8.31E-07	< 1.32E-06	< 7.65E-07	< 6.43E-07	< 7.65E-07	< 6.43E-07	< 6.43E-07	< 6.43E-07	< 6.43E-07	< 6.43E-07	< 6.12E-07	< 6.58E-07	< 7.65E-07	< 6.43E-07
1-Hexene	592-41-6	< 5.64E-07	< 5.51E-07	< 5.51E-07	< 7.13E-07	< 1.13E-06	< 6.56E-07	< 5.51E-07	< 6.56E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.25E-07	< 5.64E-07	< 6.56E-07	< 5.51E-07
1-Octene	111-60-0	< 7.52E-07	< 7.34E-07	< 7.34E-07	< 9.50E-07	< 1.50E-06	< 8.74E-07	< 7.34E-07	< 8.74E-07	< 7.34E-07	< 7.34E-07	< 7.34E-07	< 7.34E-07	< 7.34E-07	< 6.99E-07	< 7.52E-07	< 8.74E-07	< 7.34E-07
1-Pentene	109-67-1	< 4.70E-07	7.07E-06	4.04E-06	< 8.30E-07	< 9.40E-07	< 5.46E-07	< 4.59E-07	< 5.46E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	8.17E-07	1.01E-04	< 4.37E-07	< 4.70E-07	< 5.46E-07	< 4.59E-07
1 1,1-Dichloroethane	00075-34-3	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 1,1-Dichloroethane	00075-35-4	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 7.19E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 * 1,1-Difluoroethane	00075-34-3								1.19E-05								5.62E-06	
1 1,1,1-Trichloroethane	00071-55-6	1.77E-06	1.26E-06	1.57E-06	1.90E-06	2.09E-06	2.06E-06	1.26E-06	< 2.12E-06	1.57E-05	1.89E-04	1.01E-06	1.23E-06	7.55E-06	1.17E-06	1.77E-06	2.81E-06	1.04E-06
1 1,1,2-Trichloroethane	00079-00-5	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 1,1,2,2-Tetrachloroethane	00079-34-5	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 1,2-Dibromo-3-Chloropropane	00096-12-8	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
1 1,2-Dibromoethane	00106-93-4	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 1,2-Dichlorobenzene	00095-50-1	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 1,2-Dichloroethane	00107-06-2	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 1,2-Dichloropropane	00078-87-5	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1,2,4-Trimethylbenzene	95-63-6	< 4.03E-06	< 3.93E-06	< 3.93E-06	< 4.07E-06	< 8.05E-06	< 4.68E-06	< 3.93E-06	< 4.68E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	2.88E-04	< 4.03E-06	< 4.68E-06	< 3.93E-06
1,3-Butadiene	106-99-0	< 3.62E-07	6.02E-06	< 3.54E-07	2.92E-06	4.71E-06	3.69E-06	3.72E-06	< 7.02E-07	< 3.54E-07	< 3.54E-07	1.06E-05	< 3.54E-07	< 3.54E-07	5.23E-06	1.36E-05	< 4.21E-07	3.45E-06
1 1,3-Dichlorobenzene	00541-73-1	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 * 1,3-Dioxolane					5.58E-07													
1,3,5-Trimethylbenzene	108-67-8	< 4.03E-06	< 3.93E-06	< 3.93E-06	< 5.16E-06	< 8.05E-06	< 4.68E-06	< 3.93E-06	< 4.68E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	< 3.75E-06	< 4.03E-06	< 4.06E-06	< 3.93E-06
1 * 1,4-Dichloro-1,3-Butadiene	02984-42-1								4.99E-07									
1 1,4-Dichlorobenzene	00106-46-7	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 4.50E-06	< 4.39E-06	< 4.39E-06	< 5.76E-06	< 8.99E-06	4.08E-05	< 4.39E-06	< 5.23E-06	< 4.39E-06	< 4.39E-06	< 4.39E-06	< 4.39E-06	< 4.39E-06	< 4.18E-06	< 4.50E-06	< 5.23E-06	< 4.39E-06
1 1,4-Dioxane	00123-91-1	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.90E-06	< 2.58E-05	< 5.99E-06	< 5.03E-06	< 3.00E-06	< 5.03E-06	< 1.26E-05	< 5.03E-06	< 5.03E-06	< 5.03E-06	< 1.20E-05	< 5.15E-06	< 1.20E-05	< 5.03E-06
1 2-Butanone	00078-93-3	9.18E-07	1.34E-06	1.45E-06	1.02E-06	< 1.29E-05	1.48E-06	< 2.52E-06	< 1.35E-06	6.14E-07	< 6.29E-06	< 2.52E-06	5.98E-07	< 2.52E-06	6.74E-06	9.34E-07	< 5.99E-06	6.61E-07
1 * 2-Butene	00126-99-8				4.46E-07												3.12E-06	
1 * 2-Chloro-1,3-Butadiene	00126-99-8								6.87E-06								2.50E-06	
1 2-Hexanone	00591-78-6	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
2-Methyl-1-butene	563-46-2	< 4.70E-07	< 4.59E-07	1.10E-06	< 5.94E-07	< 9.40E-07	< 5.46E-07	< 4.59E-07	< 5.46E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.37E-07	< 4.70E-07	< 5.46E-07	< 4.59E-07
2-Methyl-2-butene	513-35-9	< 4.70E-07	< 4.59E-07	< 4.59E-07	< 5.94E-07	< 9.40E-07	1.31E-04	< 4.59E-07	< 5.46E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.37E-07	< 4.70E-07	< 5.88E-05	< 4.59E-07
2-Methyl-2-pentene	625-27-4	< 5.64E-07	< 5.51E-07	< 5.51E-07	< 7.13E-07	< 1.13E-06	< 6.56E-07	< 5.51E-07	< 6.56E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.25E-07	< 5.64E-07	< 6.56E-07	< 5.51E-07
2-Methylheptane	592-27-8	< 7.65E-07	< 7.48E-07	< 7.48E-07	< 9.67E-07	< 1.53E-06	< 8.90E-07	< 7.48E-07	< 8.90E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.12E-07	< 7.65E-07	< 8.90E-07	< 7.48E-07
2-Methylhexane	591-76-4	< 6.71E-07	< 6.56E-07	< 6.56E-07	< 8.49E-07	< 1.34E-06	< 7.81E-07	< 6.56E-07	< 7.81E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.25E-07	< 6.71E-07	< 7.81E-07	< 6.56E-07
2-Methylpentane	107-83-5	5.68E-07	7.24E-07	< 5.64E-07	< 5.70E-07	< 1.15E-06	< 6.71E-07	< 5.64E-07	< 6.71E-07	< 5.64E-07	< 5.64E-07	< 5.64E-07	< 5.64E-07	< 5.64E-07	1.96E-06	5.77E-07	< 6.71E-07	< 5.64E-07
2,2-Dimethylbutane	75-83-2	< 3.77E-07	< 5.64E-07	< 5.64E-07	< 7.30E-07	< 1.15E-06	< 6.71E-07	< 5.64E-07	< 6.71E-07	< 5.64E-07	< 5.64E-07	< 5.64E-07	< 5.64E-07	< 5.64E-07	< 5.37E-07	4.72E-07	< 6.71E-07	< 5.64E-07
2,2-Dimethylpropane	463-82-1	< 4.83E-07	< 4.72E-07	< 4.72E-07	< 6.11E-07	< 9.67E-07	< 5.62E-07	< 4.72E-07	< 5.62E-07	< 4.72E-07	< 4.72E-07	< 4.72E-07	< 4.72E-07	< 4.72E-07	< 4.50E-07	< 4.83E-07	< 5.62E-07	< 4.72E-07
2,3-Dimethylpentane	565-59-3	< 6.71E-07	< 6.56E-07	< 6.56E-07	< 8.49E-07	< 1.34E-06	< 7.81E-07	< 6.56E-07	< 7.81E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.25E-07	< 6.71E-07	< 7.81E-07	< 6.56E-07
2,3,4-Trimethylpentane	565-75-3	< 7.65E-07	< 7.48E-07	< 7.48E-07	< 9.67E-07	< 1.53E-06	< 8.90E-07	< 7.48E-07	< 8.90E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.12E-07	< 7.65E-07	< 8.90E-07	< 7.48E-07
2,4-Dimethylhexane	589-43-5	< 7.65E-07	< 7.48E-07	< 7.48E-07	< 9.67E-07	< 1.53E-06	< 8.90E-07	< 7.48E-07	< 8.90E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.12E-07	< 7.65E-07	< 8.90E-07	< 7.48E-07
1 * 3-Heptanone	00106-35-4								5.62E-07								1.87E-06	
3-Methylhexane	589-34-4	< 6.71E-07	< 6.56E-07	< 6.56E-07	1.33E-06	< 1.34E-06	< 7.81E-07	< 6.56E-07	< 7.81E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.25E-07	< 6.71E-07	< 7.81E-07	< 6.56E-07
3-Methylpentane	96-14-0	6.06E-07	1.22E-06	6.39E-07	< 9.10E-07	< 1.15E-06	< 6.71E-07	< 5.64E-07	3.84E-06	5.55E-07	< 5.64E-07	< 5.64E-07	< 5.64E-07	< 5.64E-07	5.91E-06	7.41E-07	< 6.71E-07	< 5.64E-07
4-Methyl-1-pentene	691-37-2	< 5.64E-07	< 5.51E-07	< 5.51E-07	< 7.13E-07	< 1.13E-06	< 6.56E-07	< 5.51E-07	< 6.56E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.25E-07	< 5.64E-07	< 6.56E-07	< 5.51E-07
1 4-Methyl-2-pentanone	00108-10-1	< 1.29E-06	< 3.15E-06	5.82E-05	< 7.86E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 1.38E-05	< 1.26E-06
1 * Acetaldehyde	00075-07-0				3.35E-06		3.75E-06		1.25E-06								2.50E-06	
1 Acetone	00067-64-1	6.12E-06	1.10E-05	8.02E-06	2.62E-05	8.54E-06	3.37E-05	5.03E-06	2.08E-05	5.94E-06	7.24E-06	5.19E-06	5.94E-06	5.98E-06	4.65E-04	5.96E-06	1.59E-05	4.88E-06
1 Acetonitrile	01722-09-4	< 2.58E-06	< 6.29E-06	< 2.52E-06	2.73E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
1 * Acetophenone	00098-86-2						5.62E-05										2.50E-06	
Acetylene	74-86-2	4.36E-07	6.65E-07	4.94E-07	< 3.32E-07	< 3.49E-07	< 2.03E-07	< 1.70E-07	< 2.03E-07	< 1.70E-07	< 1.70E-07	4.43E-07	< 1.70E-07	7.16E-07	8.93E-07	4.89E-07	< 4.46E-07	< 1.70E-07
1 Acrolein	00107-02-8	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.33E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
1 Acrylonitrile	00107-13-1	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	1.48E-05	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
1 Allyl Chloride	00107-05-1	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
1 * Alpha-Methyl Sytene					5.58E-07		1.50E-05										1.25E-06	
a-Pinene	7785-70-8	< 9.13E-07	< 8.92E-07	< 8.92E-07	< 1.15E-06	< 1.83E-06	< 1.06E-06	< 8.92E-07	< 1.06E-06	< 8.92E-07	< 8.92E-07	< 8.92E-07	< 8.92E-07	< 8.92E-07	< 8.49E-07	< 9.13E-07	< 1.06E-06	< 8.92E-07
Benzene	71-43-2	5.41E-07	6.82E-07	5.88E-07	< 5.68E-07	< 1.05E-06	< 6.09E-07	< 5.11E-07	< 6.09E-07	< 5.11E-07	< 5.11E-07	5.62E-07	4.94E-07	5.28E-07	2.92E-06	5.32E-07	< 6.80E-07	< 5.11E-07
1 Benzyl Chloride	00100-44-7	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
b-Pinene	18172-67-3	< 4.56E-06	< 4.46E-06	< 4.46E-06	< 3.79E-06	< 9.13E-06	< 5.31E-06	< 4.46E-06	< 5.31E-06	< 4.46E-06	< 4.46E-06	< 4.46E-06	< 4.46E-06	< 4.46E-06	< 4.25E-06	< 4.56E-06	< 5.31E-06	< 4.46E-06
1 Bromodichloromethane	00075-27-4	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 Bromoform	00075-25-2	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 Bromomethane	00074-83-9	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 * Butane		4.83E-06		4.72E-06														
1 * C12H24 Branched Alkene											6.29E-05	6.29E-06						
1 * C9-C10 Branched Alkane															3.00E-05			
1 Carbon Disulfide	00075-15-0	1.08E-06	2.67E-04	1.57E-06	1.73E-06	< 6.44E-06	2.06E-06	6.61E-04	2.62E-04	2.99E-04	5.03E-04	4.25E-04	2.83E-06	3.15E-06	< 3.00E-06	2.26E-06	1.02E-04	4.41E-06
1 Carbon Tetrachloride	00056-23-5	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 * Carbonyl Sulfide	00463-58-1								4.99E-07	4.72E-06		7.87E-06						
1 Chlorobenzene	00108-90-7	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 * Chlorodifluoromethane					5.58E-07													
1 Chloroethane	00075-00-3	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	7.39E-07	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 Chloroform	00067-66-3	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06

TRC

Table E.1 - 3 Platen Press
Speciated Volatiles

	Compounds	CAS Numbers	Cmpd 1 lb/hr	Cmpd 2 lb/hr	Cmpd 3 lb/hr	Cmpd 5 lb/hr	Cmpd 7 lb/hr	Cmpd 9 lb/hr	Cmpd10 lb/hr	Cmpd 11 lb/hr	Cmpd 12 lb/hr	Cmpd 13 lb/hr	Cmpd 14 lb/hr	Cmpd 16 lb/hr	Cmpd 17 lb/hr	Cmpd 19 lb/hr	Cmpd 20 lb/hr	Cmpd 22 lb/hr	Cmpd 23 lb/hr
1	Chloromethane	00074-87-3	5.32E-07	< 3.15E-06	3.93E-07	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	4.56E-07	< 3.15E-06	< 1.26E-06	3.30E-07	5.19E-07	< 3.00E-06	5.15E-07	< 3.00E-06	5.35E-07
1	cis-1,2-Dichloroethene	00156-59-2	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1	cis-1,3-Dichloropropene	10061-01-5	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
	cis-2-Butene	590-18-1	< 3.76E-07	< 3.67E-07	< 3.67E-07	< 4.75E-07	< 7.52E-07	< 4.37E-07	< 3.67E-07	< 4.37E-07	< 3.67E-07	< 3.67E-07	< 3.67E-07	< 3.67E-07	< 3.67E-07	< 3.50E-07	< 3.76E-07	< 4.37E-07	< 3.67E-07
	cis-2-Hexene	7688-21-3	< 5.64E-07	< 5.51E-07	< 5.51E-07	< 7.13E-07	< 1.13E-06	< 6.56E-07	< 5.51E-07	< 6.56E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.25E-07	< 5.64E-07	< 6.56E-07	< 5.51E-07
	cis-2-Pentene	627-20-3	5.73E-05	2.20E-05	8.63E-05	2.36E-05	2.44E-05	5.46E-07	5.42E-05	8.71E-05	7.62E-05	< 4.59E-07	9.18E-05	6.61E-05	4.68E-05	1.55E-04	1.03E-04	< 3.02E-05	5.05E-05
	Cumene	98-82-8	< 8.05E-07	< 7.87E-07	< 7.87E-07	< 1.02E-06	< 1.61E-06	1.35E-06	< 7.87E-07	< 9.36E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.49E-07	< 8.05E-07	< 9.36E-07	< 7.87E-07
1 *	Cyclobutane				7.87E-06														
	Cyclohexane	110-82-7	< 5.64E-07	< 5.51E-07	< 5.51E-07	< 7.13E-07	< 1.13E-06	< 6.56E-07	< 5.51E-07	< 6.56E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.25E-07	< 5.64E-07	< 6.56E-07	< 5.51E-07
1 *	Cyclohexanone	00108-94-1				6.69E-06													
1 *	Cyclohexene	00110-82-7				1.56E-06													
1 *	Cyclooctadiene												1.10E-05						
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	3.98E-07	8.18E-07	7.37E-07	< 8.16E-07	< 1.05E-06	< 6.09E-07	< 5.11E-07	< 6.09E-07	< 5.11E-07	< 5.11E-07	< 5.11E-07	< 5.11E-07	< 5.11E-07	2.39E-06	3.67E-07	< 6.09E-07	< 5.11E-07
	Cyclopentene	142-29-0	< 4.56E-07	< 4.46E-07	< 4.46E-07	< 5.77E-07	< 9.13E-07	< 5.31E-07	< 4.46E-07	< 5.31E-07	< 4.46E-07	< 4.46E-07	< 4.46E-07	< 4.46E-07	< 4.46E-07	< 4.25E-07	< 4.56E-07	< 5.31E-07	< 4.46E-07
1	Dibromochloromethane	00124-48-1	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1	Dichlorodifluoromethane	00075-71-8	8.05E-07	< 3.15E-06	1.20E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	8.34E-07	< 7.49E-07	8.97E-07	< 3.15E-06	1.01E-06	1.48E-06	7.55E-07	< 3.00E-06	8.22E-07	< 3.00E-06	5.98E-07
	d-Limonene	5989-27-5	< 4.56E-06	< 4.46E-06	< 4.46E-06	< 5.85E-06	< 9.13E-06	< 5.31E-06	< 4.46E-06	< 5.31E-06	< 4.46E-06	< 4.46E-06	< 4.46E-06	< 4.46E-06	< 4.46E-06	< 4.25E-06	< 4.56E-06	< 5.31E-06	< 4.46E-06
1	Epichlorohydrin	00106-89-8	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
	Ethane	74-84-0	1.91E-06	1.87E-06	1.28E-06	3.00E-06	2.32E-06	3.40E-06	1.67E-06	2.77E-06	1.97E-06	1.48E-06	1.87E-06	1.97E-06	< 1.97E-07	< 1.87E-07	8.56E-07	2.93E-06	1.87E-06
1 *	Ethanol					1.12E-06			4.72E-05			9.44E-06		1.57E-05	3.15E-04				
	Ethylacetylene	107-00-6	< 3.62E-07	< 3.54E-07	< 3.54E-07	< 4.58E-07	< 7.25E-07	< 4.21E-07	< 3.54E-07	< 4.21E-07	< 3.54E-07	< 3.54E-07	< 3.54E-07	< 3.54E-07	< 3.54E-07	< 3.37E-07	< 3.62E-07	< 4.21E-07	< 3.54E-07
	Ethylbenzene	100-41-4	< 7.11E-07	< 6.95E-07	< 6.95E-07	6.71E-07	< 1.42E-06	< 8.27E-07	< 6.95E-07	< 8.27E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.62E-07	< 7.11E-07	< 8.27E-07	< 6.95E-07
	Ethylene	74-85-1	1.03E-06	1.01E-06	8.08E-07	< 7.68E-07	< 3.76E-07	< 2.19E-07	< 1.84E-07	< 6.01E-07	< 1.84E-07	< 1.84E-07	6.70E-07	< 1.84E-07	< 1.84E-07	< 1.75E-07	8.36E-07	< 8.01E-07	< 1.84E-07
1	Hexachlorobutadiene	00087-68-3	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
	Isobutane	75-28-5	1.17E-06	1.05E-06	1.05E-06	< 4.92E-07	1.46E-06	< 4.53E-07	< 3.80E-07	< 5.09E-07	< 3.80E-07	< 3.80E-07	9.03E-07	< 3.80E-07	< 3.80E-07	3.80E-06	< 3.89E-07	< 5.96E-07	1.05E-06
	Isobutylene + 1-Butene	115-11-7/106-98-9	1.69E-05	< 3.67E-07	1.74E-05	8.04E-07	< 7.52E-07	< 4.37E-07	< 3.67E-07	7.14E-06	4.04E-05	< 3.67E-07	< 3.67E-07	2.39E-05	4.04E-05	5.60E-06	< 3.76E-07	1.30E-05	< 3.67E-07
	Isooctane	540-84-1	< 7.65E-07	< 7.48E-07	< 7.48E-07	< 9.67E-07	< 1.53E-06	< 8.90E-07	< 7.48E-07	< 8.90E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.12E-07	< 7.65E-07	< 8.90E-07	< 7.48E-07
	Isopentane	78-78-4	5.70E-06	6.89E-06	6.42E-06	1.74E-05	4.64E-06	1.24E-05	3.21E-06	1.87E-05	3.02E-06	< 4.72E-07	3.78E-06	3.59E-06	8.50E-06	4.72E-04	4.45E-06	7.08E-06	2.74E-06
	Isoprene	78-79-5	< 4.56E-07	2.14E-07	< 4.46E-07	< 5.77E-07	< 9.13E-07	< 5.31E-07	< 4.46E-07	< 5.31E-07	< 4.46E-07	< 4.46E-07	< 4.46E-07	< 4.46E-07	< 4.46E-07	< 4.25E-07	< 4.56E-07	< 5.31E-07	< 4.46E-07
1 *	Isopropanol	00067-63-0	4.83E-06	3.15E-05	1.57E-05	2.79E-06			6.24E-07	9.44E-06				6.29E-06	3.15E-04				4.72E-06
	Methylacetylene	74-99-7	< 2.62E-07	< 2.56E-07	< 2.56E-07	< 3.31E-07	< 5.23E-07	< 3.04E-07	< 2.56E-07	< 3.04E-07	< 2.56E-07	< 2.56E-07	< 2.56E-07	< 2.56E-07	< 2.56E-07	< 2.43E-07	< 2.62E-07	< 3.04E-07	< 2.56E-07
	Methylcyclohexane	108-87-2	< 6.58E-07	< 6.43E-07	< 6.43E-07	< 8.31E-07	< 1.32E-06	< 7.65E-07	< 6.43E-07	< 7.65E-07	< 6.43E-07	< 6.43E-07	< 6.43E-07	< 6.43E-07	< 6.43E-07	< 6.12E-07	< 6.58E-07	< 7.65E-07	< 6.43E-07
	Methylcyclopentane	96-37-7	7.99E-07	1.10E-06	1.29E-06	1.03E-06	< 1.13E-06	1.02E-06	< 5.51E-07	9.95E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	8.92E-06	1.50E-06	< 6.56E-07	< 5.51E-07
1	Methylene Chloride	00075-09-2	6.28E-04	2.05E-04	1.13E-03	8.78E-05	2.58E-04	2.25E-03	5.82E-04	1.30E-03	8.34E-04	5.98E-04	1.27E-03	7.87E-04	5.51E-04	1.02E-04	1.32E-03	1.44E-03	5.82E-04
	m-Ethyltoluene	620-14-4	< 8.05E-07	< 7.87E-07	< 7.87E-07	< 1.02E-06	< 1.61E-06	< 9.36E-07	< 7.87E-07	< 9.36E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.49E-07	< 8.05E-07	< 9.36E-07	< 7.87E-07
	m-Xylene + p-Xylene	108-38-3/106-42-3	5.07E-07	9.55E-07	4.52E-06	4.62E-06	1.60E-06	< 8.27E-07	< 6.95E-07	< 8.20E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.62E-07	< 7.11E-07	< 8.82E-07	< 6.95E-07
1 *	Naphthalene																	1.87E-06	
	n-Butane	106-97-8	6.62E-06	3.71E-06	6.18E-06	1.54E-06	3.41E-06	1.25E-06	1.33E-06	1.18E-06	< 3.80E-07	< 3.80E-07	3.33E-06	< 3.80E-07	4.47E-06	3.99E-06	4.19E-06	2.19E-06	1.43E-06
	n-Decane	124-18-5	< 4.77E-06	< 4.66E-06	< 4.66E-06	1.32E-06	< 9.53E-06	< 5.54E-06	< 4.66E-06	< 5.54E-06	< 4.66E-06	< 4.66E-06	< 4.66E-06	< 4.66E-06	< 4.66E-06	< 4.43E-06	< 4.77E-06	< 5.54E-06	< 4.66E-06
	n-Heptane	142-82-5	< 6.71E-07	< 6.56E-07	< 6.56E-07	< 8.49E-07	< 1.34E-06	< 7.81E-07	< 6.56E-07	< 7.81E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.56E-07	< 6.25E-07	< 6.71E-07	< 7.81E-07	< 6.56E-07
	n-Hexane	110-54-3	3.74E-06	5.17E-06	3.48E-06	8.30E-06	4.61E-06	8.03E-06	2.06E-06	2.36E-05	1.40E-06	< 5.64E-07	3.19E-06	2.62E-06	2.63E-06	1.56E-04	1.39E-05	5.32E-06	2.53E-06
	n-Nonane	111-84-2	< 8.39E-07	< 8.39E-07	< 8.39E-07	< 1.09E-06	< 1.72E-06	< 9.99E-07	< 8.39E-07	< 9.99E-07	< 8.39E-07	< 8.39E-07	< 8.39E-07	< 8.39E-07	< 8.39E-07	< 7.99E-07	< 8.59E-07	< 9.99E-07	< 8.39E-07
	n-Octane	111-65-9	< 7.65E-07	< 7.48E-07	< 7.48E-07	< 9.67E-07	< 1.53E-06	< 8.90E-07	< 7.48E-07	< 8.90E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.48E-07	< 7.12E-07	< 7.65E-07	< 8.90E-07	< 7.48E-07
	n-Pentane	109-66-0	6.28E-07	1.70E-06	< 4.72E-07	< 5.96E-07	< 9.67E-07	< 5.62E-07	< 4.72E-07	< 5.62E-07	< 4.72E-07	< 4.72E-07	2.08E-06	< 4.72E-07	< 4.72E-07	1.24E-06	1.55E-06	< 5.62E-07	< 4.72E-07
	n-Propylbenzene	103-65-1	< 8.05E-07	< 7.87E-07	< 7.87E-07	< 1.02E-06	< 1.61E-06	< 9.36E-07	< 7.87E-07	< 9.36E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	2.92E-06	< 8.05E-07	< 9.36E-07	< 7.87E-07
1 *	n-Undecane	00112-21-4				6.69E-06				5.62E-07									
	o-Ethyltoluene	611-14-3	< 4.03E-06	< 3.93E-06	< 3.93E-06	< 5.16E-06	< 8.05E-06	7.18E-06	< 3.93E-06	< 4.68E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	< 3.93E-06	< 3.75E-06	< 4.03E-06	< 3.57E-06	< 3.93E-06
	o-Xylene	95-47-6	< 7.11E-07	< 6.95E-07	< 6.95E-07	1.01E-06	8.89E-07	< 8.27E-07	< 6.95E-07	< 8.27E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.95E-07	< 6.62E-07	< 7.11E-07	< 8.27E-07	< 6.95E-07
	p-Cymene	99-87-6	< 4.50E-06	< 4.39E-06	< 4.39E-06	< 4.67E-06	< 8.99E-06	< 5.23E-06	< 4.39E-06	< 5.23E-06	< 4.39E-06	< 4.39E-06	< 4.39E-06	< 4.39E-06	< 4.39E-06	< 4.18E-06	< 4.50E-06	< 5.23E-06	< 4.39E-06
	p-Ethyltoluene	622-96-8	< 8.05E-07	< 7.87E-07	< 7.87E-07	< 1.02E-06	< 1.61E-06	< 9.36E-07	< 7.87E-07	< 9.36E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.87E-07	< 7.49E-07	< 8.05E-07	< 9.36E-07	< 7.87E-07
	Propane	74-98-6	1.58E-06	< 2.89E-07	9.62E-07	2.19E-06	1.48E-06	1.11E-06	9.33E-07	1.11E-06	< 2.89E-07	< 2.89E-07	1.35E-06	< 2.89E-07	< 2.89E-07	< 2.75E-07	< 2.95E-07	< 1.05E-06	9.43E-07
	Propylene	115-07-1	3.95E-07	4.77E-07	< 2.75E-07	6.15E-07	< 5.64E-07	< 3.28E-07	< 2.75E-07	< 7.07E-07	< 2.75E-07	1.47E-06	< 2.75E-07	< 2.75E-07	< 2.75E-07	< 2.62E-07	< 2.82E-07	< 3.64E-07	< 2.75E-07
1	Propylene Oxide	00075-56-9	< 2.58E-06	3.19E-05	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	2.75E-05	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 1.66E-05	< 2.52E-06
	Styrene	100-42-5	< 6.98E-07	< 6.82E-07	< 6.82E-07	< 8.82E-07	< 1.40E-06	< 8.11E-07	< 6.82E-07	< 8.11E-07	< 6.82E-07	< 6.82E-07	< 6.82E-07	< 6.82E-07	< 6.82E-07	< 6.49E-07	< 6.98E-07	< 8.11E-07	< 6.82E-07
1	t-Butyl Methyl Ether	01634-04-4	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.00E-06	< 2.52E-06	< 1.50E-06	< 2.52E-06	< 6.29E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 5.99E-06	< 2.58E-06	< 5.99E-06	< 2.52E-06
1 *	tert-Butyl Alcohol				4.72E-06				1.57E-05		1.57E-05	1.42E-05			6.29E-06	5.99E-05			
1	Tetrachloroethene	00127-18-4	< 1.29E-06	< 3.15E-06	2.67E-07	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
	Toluene	108-88-3	2.12E-06	3.10E-06	3.02E-06	5.89E-06	1.50E-06	1.33E-06	1.38E-06	1.74E-06	1.55E-06	< 6.03E-07	1.90E-06	1.98E-05	1.64E-06	5.17E-06	2.38E-06	2.63E-06	2.84E-06
1	trans-1,2-Dichloroethene	00156-60-5	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1	trans-1,2-Dichloropropene	10061-01-5	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
	trans-2-Butene	624-64-6	< 3.76E-07	< 3.67E-07	< 3.67E-07	< 4.75E-07	< 7.52E-07	< 4.37E-07	< 3.67E-07	< 4.37E-07	< 3.67E-07	< 3.67E-07	< 3.67E-07	< 3.67E-07	< 3.67E-07	< 3.50E-07	< 3.76E-07	< 4.37E-07	< 3.67E-07
	trans-2-Hexene	4050-45-7	< 5.64E-07	< 5.51E-07	< 5.51E-07	< 3.02E-06	< 1.13E-06	< 6.56E-07	< 5.51E-07	< 6.56E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.51E-07	< 5.25E-07	< 5.64E-07	< 6.56E-07	< 5.51E-07
	trans-2-Pentene	646-04-8	< 4.70E-07	2.02E-07	< 4.59E-07	< 5.94E-07	< 9.40E-07	< 5.46E-07	< 4.59E-07	< 5.46E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.59E-07	< 4.37E-07	< 4.70E-07	< 5.46E-07	< 4.59E-07
1	Trichloroethene	00079-01-6	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1	Trichlorofluoromethane	00075-69-4	1.55E-06	< 3.15E-06	1.38E-06	1.49E-06	< 6.44E-06	< 1.50E-06	1.20E-06	< 1.11E-06	1.57E-06	< 3.15E-06	1.42E-06	1.57E-06	9.13E-07	< 3.00E-06	1.77E-06	< 3.05E-06	1.15E-06
1	Trichlorotrifluoroethane	00076-13-1	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1	Vinyl Acetate	00108-05-4	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1	Vinyl Chloride	00075-01-4	< 1.29E-06	< 3.15E-06	< 1.26E-06	< 6.69E-07	< 6.44E-06	< 1.50E-06	< 1.26E-06	< 7.49E-07	< 1.26E-06	< 3.15E-06	< 1.26E-06	< 1.26E-06	< 1.26E-06	< 3.00E-06	< 1.29E-06	< 3.00E-06	< 1.26E-06
1 *	(1-Methoxy-1-Methylethyl)-Benzene							7.49E-06											
	TOTAL Detected		7.54E-04	6.36E-04	1.38E-03	2.23E-04	3.19E-04	2.58E-03	1.39E-03	1.79E-03	1.31E-03	1.40E-03	1.88E-03	9.47E-04	1.42E-03	1.79E-03	1.48E-03	1.61E-03	6.67E-04
	TOTAL with non-detects		< 8.82E-04	< 8.63E-04	< 1.51E-03	< 3.29E-04	< 8.25E-04	< 2.73E-03	< 1.52E-03	< 1.91E-03	< 1.44E-03	< 1.65E-03	< 2.01E-03	< 1.08E-03	< 1.55E-03	< 2.01E-03	< 1.61E-03	< 1.97E-03	< 7.97E-04

1 - Results from Method TO-14 * - Tentatively Identified Compound

TRC

Table K.1 - 3 Platen Press
Speciated Volatiles

Compounds	CAS Numbers	Cmpd 1 lb/lb rubber	Cmpd 2 lb/lb rubber	Cmpd 3 lb/lb rubber	Cmpd 5 lb/lb rubber	Cmpd 7 lb/lb rubber	Cmpd 9 lb/lb rubber	Cmpd10 lb/lb rubber	Cmpd 11 lb/lb rubber	Cmpd 12 lb/lb rubber	Cmpd 13 lb/lb rubber	Cmpd 14 lb/lb rubber	Cmpd 16 lb/lb rubber	Cmpd 17 lb/lb rubber	Cmpd 19 lb/lb rubber	Cmpd 20 lb/lb rubber	Cmpd 22 lb/lb rubber	Cmpd 23 lb/lb rubber
1 * 1-Butanol	00071-36-3			9.44E-06				9.44E-06			2.37E-05	1.28E-05	9.44E-06	9.44E-06				
1 * 1-Chloro-4-)1-Chloroethenyl)-Cyclohexene									4.70E-06									
1 * 1-Chloro-5-)1-Chloroethenyl)-Cyclohexene									3.05E-06									
1-Heptene	592-76-7	< 1.32E-06	< 1.29E-06	< 1.29E-06	< 1.66E-06	< 2.63E-06	< 1.56E-06	< 1.29E-06	< 1.01E-06	< 1.24E-06	< 1.21E-06	< 1.31E-06	< 1.29E-06	< 1.29E-06	< 1.18E-06	< 1.24E-06	< 1.23E-06	< 1.26E-06
1-Hexene	592-41-6	< 1.13E-06	< 1.10E-06	< 1.10E-06	< 1.43E-06	< 2.26E-06	< 1.34E-06	< 1.10E-06	< 8.67E-07	< 1.06E-06	< 1.04E-06	< 1.12E-06	< 1.10E-06	< 1.10E-06	< 1.01E-06	< 1.06E-06	< 1.05E-06	< 1.08E-06
1-Octene	111-60-0	< 1.50E-06	< 1.47E-06	< 1.47E-06	< 1.90E-06	< 3.01E-06	< 1.78E-06	< 1.47E-06	< 1.16E-06	< 1.41E-06	< 1.39E-06	< 1.50E-06	< 1.47E-06	< 1.47E-06	< 1.35E-06	< 1.42E-06	< 1.40E-06	< 1.44E-06
1-Pentene	109-67-1	< 9.40E-07	1.41E-05	8.08E-06	< 1.66E-06	< 1.88E-06	< 1.12E-06	< 9.18E-07	< 7.22E-07	< 8.83E-07	< 8.66E-07	< 9.37E-07	1.63E-06	2.02E-04	< 8.41E-07	< 8.87E-07	< 8.77E-07	< 9.00E-07
1 1,1-Dichloroethane	00075-34-3	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 1,1-Dichloroethane	00075-35-4	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.44E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 * 1,1-Difluoroethane	00075-34-3								1.57E-05								9.01E-06	
1 1,1,1-Trichloroethane	00071-55-6	3.54E-06	2.52E-06	3.15E-06	3.80E-06	4.19E-06	4.20E-06	2.52E-06	< 2.81E-06	3.03E-05	3.56E-04	2.05E-06	2.45E-06	1.51E-05	2.25E-06	3.34E-06	4.51E-06	2.04E-06
1 1,1,2-Trichloroethane	00079-00-5	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 1,1,2,2-Tetrachloroethane	00079-34-5	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 1,2-Dibromo-3-Chloropropane	00096-12-8	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.68E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
1 1,2-Dibromoethane	00106-93-4	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 1,2-Dichlorobenzene	00095-50-1	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 1,2-Dichloroethane	00107-06-2	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 1,2-Dichloropropane	00078-87-5	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1,2,4-Trimethylbenzene	95-63-6	< 8.05E-06	< 7.87E-06	< 7.87E-06	< 8.15E-06	< 1.61E-05	< 9.56E-06	< 7.87E-06	< 6.19E-06	< 7.56E-06	< 7.42E-06	< 8.03E-06	< 7.87E-06	< 7.87E-06	5.55E-04	< 7.60E-06	< 7.51E-06	< 7.71E-06
1,3-Butadiene	106-99-0	< 7.25E-07	1.20E-05	< 7.08E-07	5.84E-06	9.42E-06	7.53E-06	7.43E-06	< 9.28E-07	< 6.81E-07	< 6.68E-07	2.17E-05	< 7.08E-07	< 7.08E-07	1.00E-05	2.56E-05	< 6.76E-07	6.77E-06
1 1,3-Dichlorobenzene	00541-73-1	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 * 1,3-Dioxolane					1.12E-06													
1,3,5-Trimethylbenzene	108-67-8	< 8.05E-06	< 7.87E-06	< 7.87E-06	< 1.03E-05	< 1.61E-05	< 9.56E-06	< 7.87E-06	< 6.19E-06	< 7.56E-06	< 7.42E-06	< 8.03E-06	< 7.87E-06	< 7.87E-06	< 7.20E-06	< 7.60E-06	< 6.51E-06	< 7.71E-06
1 * 1,4-Dichloro-1,3-Butadiene	02984-42-1								6.60E-07									
1 1,4-Dichlorobenzene	00106-46-7	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 8.99E-06	< 8.78E-06	< 8.78E-06	< 1.15E-05	< 1.80E-05	8.32E-05	< 8.78E-06	< 6.91E-06	< 8.45E-06	< 8.29E-06	< 8.96E-06	< 8.78E-06	< 8.78E-06	< 8.04E-06	< 8.48E-06	< 8.39E-06	< 8.61E-06
1 1,4-Dioxane	00123-91-1	< 1.03E-05	< 2.52E-05	< 1.01E-05	< 5.80E-06	< 5.15E-05	< 1.22E-05	< 1.01E-05	< 3.96E-06	< 9.68E-06	< 2.37E-05	< 1.03E-05	< 1.01E-05	< 1.01E-05	< 2.31E-05	< 9.73E-06	< 1.92E-05	< 9.87E-06
1 2-Butanone	00078-93-3	1.84E-06	2.77E-06	2.89E-06	2.04E-06	< 2.58E-05	3.02E-06	< 5.03E-06	< 1.79E-06	1.18E-06	< 1.19E-05	< 5.14E-06	1.20E-06	< 5.03E-06	1.30E-05	1.76E-06	< 9.62E-06	1.30E-06
1 * 2-Butene	00126-99-8				8.92E-07												5.01E-06	
1 * 2-Chloro-1,3-Butadiene	00126-99-8								9.08E-06								4.01E-06	
1 2-Hexanone	00591-78-6	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
2-Methyl-1-butene	563-46-2	< 9.40E-07	< 9.18E-07	2.20E-06	< 1.19E-06	< 1.88E-06	< 1.12E-06	< 9.18E-07	< 7.22E-07	< 8.83E-07	< 8.66E-07	< 9.37E-07	< 9.18E-07	< 9.18E-07	< 8.41E-07	< 8.87E-07	< 8.77E-07	< 9.00E-07
2-Methyl-2-butene	513-35-9	< 9.40E-07	< 9.18E-07	< 9.18E-07	< 1.19E-06	< 1.88E-06	2.68E-04	< 9.18E-07	< 7.22E-07	< 8.83E-07	< 8.66E-07	< 9.37E-07	< 9.18E-07	< 9.18E-07	< 8.41E-07	< 8.87E-07	< 9.44E-05	< 9.00E-07
2-Methyl-2-pentene	625-27-4	< 1.13E-06	< 1.10E-06	< 1.10E-06	< 1.43E-06	< 2.26E-06	< 1.34E-06	< 1.10E-06	< 8.67E-07	< 1.06E-06	< 1.04E-06	< 1.12E-06	< 1.10E-06	< 1.10E-06	< 1.01E-06	< 1.06E-06	< 1.05E-06	< 1.08E-06
2-Methylheptane	592-27-8	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.93E-06	< 3.06E-06	< 1.82E-06	< 1.50E-06	< 1.18E-06	< 1.44E-06	< 1.41E-06	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.37E-06	< 1.44E-06	< 1.43E-06	< 1.47E-06
2-Methylhexane	591-76-4	< 1.34E-06	< 1.31E-06	< 1.31E-06	< 1.70E-06	< 2.69E-06	< 1.59E-06	< 1.31E-06	< 1.03E-06	< 1.26E-06	< 1.24E-06	< 1.34E-06	< 1.31E-06	< 1.31E-06	< 1.20E-06	< 1.27E-06	< 1.25E-06	< 1.29E-06
2-Methylpentane	107-83-5	1.14E-06	1.45E-06	< 1.13E-06	< 1.14E-06	< 2.31E-06	< 1.37E-06	< 1.13E-06	< 8.87E-07	< 1.08E-06	< 1.06E-06	< 1.15E-06	< 1.13E-06	< 1.13E-06	3.77E-06	1.09E-06	< 1.08E-06	< 1.11E-06
2,2-Dimethylbutane	75-83-2	< 1.15E-06	< 1.13E-06	< 1.13E-06	< 1.46E-06	< 2.31E-06	< 1.37E-06	< 1.13E-06	< 8.87E-07	< 1.08E-06	< 1.06E-06	< 1.15E-06	< 1.13E-06	< 1.13E-06	< 1.03E-06	8.90E-07	< 1.08E-06	< 1.11E-06
2,2-Dimethylpropane	463-82-1	< 9.67E-07	< 9.44E-07	< 9.44E-07	< 1.22E-06	< 1.93E-06	< 1.15E-06	< 9.44E-07	< 7.43E-07	< 9.08E-07	< 8.91E-07	< 9.64E-07	< 9.44E-07	< 9.44E-07	< 8.65E-07	< 9.12E-07	< 9.02E-07	< 9.26E-07
2,3-Dimethylpentane	565-59-3	< 1.34E-06	< 1.31E-06	< 1.31E-06	< 1.70E-06	< 2.69E-06	< 1.59E-06	< 1.31E-06	< 1.03E-06	< 1.26E-06	< 1.24E-06	< 1.34E-06	< 1.31E-06	< 1.31E-06	< 1.20E-06	< 1.27E-06	< 1.25E-06	< 1.29E-06
2,3,4-Trimethylpentane	565-75-3	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.93E-06	< 3.06E-06	< 1.82E-06	< 1.50E-06	< 1.18E-06	< 1.44E-06	< 1.41E-06	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.37E-06	< 1.44E-06	< 1.43E-06	< 1.47E-06
2,4-Dimethylhexane	589-43-5	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.93E-06	< 3.06E-06	< 1.82E-06	< 1.50E-06	< 1.18E-06	< 1.44E-06	< 1.41E-06	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.37E-06	< 1.44E-06	< 1.43E-06	< 1.47E-06
1 * 3-Heptanone	00106-35-4								7.43E-07								3.00E-06	
3-Methylhexane	589-34-4	< 1.34E-06	< 1.31E-06	< 1.31E-06	2.65E-06	< 2.69E-06	< 1.59E-06	< 1.31E-06	< 1.03E-06	< 1.26E-06	< 1.24E-06	< 1.34E-06	< 1.31E-06	< 1.31E-06	< 1.20E-06	< 1.27E-06	< 1.25E-06	< 1.29E-06
3-Methylpentane	96-14-0	1.21E-06	2.44E-06	1.28E-06	< 1.82E-06	< 2.31E-06	< 1.37E-06	< 1.13E-06	5.08E-06	1.07E-06	< 1.06E-06	< 1.15E-06	< 1.13E-06	< 1.13E-06	1.14E-05	1.40E-06	< 1.08E-06	< 1.11E-06
4-Methyl-1-pentene	691-37-2	< 1.13E-06	< 1.10E-06	< 1.10E-06	< 1.43E-06	< 2.26E-06	< 1.34E-06	< 1.10E-06	< 8.67E-07	< 1.06E-06	< 1.04E-06	< 1.12E-06	< 1.10E-06	< 1.10E-06	< 1.01E-06	< 1.06E-06	< 1.05E-06	< 1.08E-06
1 4-Methyl-2-pentanone	00108-10-1	< 2.58E-06	< 6.29E-06	1.16E-04	< 1.57E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 2.21E-05	< 2.47E-06
1 * Acetaldehyde	00075-07-0				6.69E-06		7.64E-06		1.65E-06								4.01E-06	
1 Acetone	00067-64-1	1.22E-05	2.20E-05	1.60E-05	5.24E-05	1.71E-05	6.88E-05	1.01E-05	2.75E-05	1.15E-05	1.37E-05	1.06E-05	1.20E-05	1.20E-05	8.93E-04	1.12E-05	2.55E-05	9.56E-06
1 Acetonitrile	01722-09-4	< 5.15E-06	< 1.26E-05	< 5.03E-06	5.47E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
1 * Acetophenone	00098-86-2						1.15E-04										4.01E-06	
Acetylene	74-86-2	8.72E-07	1.33E-06	9.88E-07	< 6.65E-07	< 6.94E-07	< 4.14E-07	< 3.41E-07	< 2.68E-07	< 3.28E-07	< 3.22E-07	9.04E-07	< 3.41E-07	1.43E-06	1.72E-06	9.22E-07	< 7.16E-07	< 3.34E-07
1 Acrolein	00107-02-8	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.65E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
1 Acrylonitrile	00107-13-1	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.68E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	3.02E-05	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
1 Allyl Chloride	00107-05-1	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.68E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
1 * Alpha-Methyl Styrene					1.12E-06		3.06E-05										2.00E-06	
a-Pinene	7785-70-8	< 1.83E-06	< 1.78E-06	< 1.78E-06	< 2.31E-06	< 3.65E-06	< 2.17E-06	< 1.78E-06	< 1.40E-06	< 1.71E-06	< 1.68E-06	< 1.82E-06	< 1.78E-06	< 1.78E-06	< 1.63E-06	< 1.72E-06	< 1.70E-06	< 1.75E-06
Benzene	71-43-2	1.08E-06	1.36E-06	1.18E-06	< 1.14E-06	< 2.09E-06	< 1.24E-06	< 1.02E-06	< 8.04E-07	< 9.83E-07	< 9.65E-07	1.15E-06	9.88E-07	1.06E-06	5.62E-06	1.00E-06	< 1.09E-06	< 1.00E-06
1 Benzyl Chloride	00100-44-7	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.68E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
b-Pinene	18172-67-3	< 9.13E-06	< 8.92E-06	< 8.92E-06	< 7.59E-06	< 1.83E-05	< 1.08E-05	< 8.92E-06	< 7.01E-06	< 8.57E-06	< 8.41E-06	< 9.10E-06	< 8.92E-06	< 8.92E-06	< 8.17E-06	< 8.61E-06	< 8.51E-06	< 8.74E-06
1 Bromodichloromethane	00075-27-4	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 Bromoform	00075-25-2	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 Bromomethane	00074-83-9	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 * Butane		9.66E-06		9.44E-06														
1 * C12H24 Branched Alkene											1.19E-04	1.28E-05						
1 * C9-C10 Branched Alkane															5.76E-05			
1 Carbon Disulfide	00075-15-0	2.16E-06	5.35E-04	3.15E-06	3.46E-06	< 1.29E-05	4.20E-06	1.32E-03	3.47E-04	5.75E-04	9.50E-04	8.67E-04	5.66E-06	6.29E-06	< 5.76E-06	4.25E-06	1.63E-04	8.64E-06
1 Carbon Tetrachloride	00056-23-5	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 * Carbonyl Sulfide	00463-58-1								6.60E-07	9.08E-06		1.61E-05						
1 Chlorobenzene	00108-90-7	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 * Chlorodifluoromethane					1.12E-06													
1 Chloroethane	00075-00-3	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	1.48E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 Chloroform	00067-66-3	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06

TRC

Table E.1 - 3 Plastra Press
Speciated Volatiles

Compounds	CAS Numbers	Cmpd 1 lb/lb rubber	Cmpd 2 lb/lb rubber	Cmpd 3 lb/lb rubber	Cmpd 5 lb/lb rubber	Cmpd 7 lb/lb rubber	Cmpd 9 lb/lb rubber	Cmpd10 lb/lb rubber	Cmpd 11 lb/lb rubber	Cmpd 12 lb/lb rubber	Cmpd 13 lb/lb rubber	Cmpd 14 lb/lb rubber	Cmpd 16 lb/lb rubber	Cmpd 17 lb/lb rubber	Cmpd 19 lb/lb rubber	Cmpd 20 lb/lb rubber	Cmpd 22 lb/lb rubber	Cmpd 23 lb/lb rubber
1 Chloromethane	00074-87-3	1.06E-06	< 6.29E-06	7.87E-07	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	8.77E-07	< 5.94E-06	< 2.57E-06	6.61E-07	1.04E-06	< 5.76E-06	9.73E-07	< 4.81E-06	1.05E-06
1 cis-1,2-Dichloroethene	00156-59-2	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 cis-1,3-Dichloropropene	10061-01-5	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
cis-2-Butene	590-18-1	< 7.52E-07	< 7.34E-07	< 7.34E-07	< 9.50E-07	< 1.50E-06	< 8.92E-07	< 7.34E-07	< 5.78E-07	< 7.06E-07	< 6.93E-07	< 7.49E-07	< 7.34E-07	< 7.34E-07	< 6.73E-07	< 7.09E-07	< 7.01E-07	< 7.20E-07
cis-2-Hexene	7688-21-3	< 1.13E-06	< 1.10E-06	< 1.10E-06	< 1.43E-06	< 2.26E-06	< 1.34E-06	< 1.10E-06	< 8.67E-07	< 1.06E-06	< 1.04E-06	< 1.12E-06	< 1.10E-06	< 1.10E-06	< 1.01E-06	< 1.06E-06	< 1.05E-06	< 1.08E-06
cis-2-Pentene	627-20-3	1.15E-04	4.41E-05	1.73E-04	4.73E-05	4.89E-05	< 1.12E-06	1.08E-04	1.15E-04	1.47E-04	< 8.66E-07	1.87E-04	1.32E-04	9.36E-05	2.96E-04	1.95E-04	< 4.85E-05	9.90E-05
Cumene	98-82-8	< 1.61E-06	< 1.57E-06	< 1.57E-06	< 2.04E-06	< 3.22E-06	2.76E-06	< 1.57E-06	< 1.24E-06	< 1.51E-06	< 1.48E-06	< 1.61E-06	< 1.57E-06	< 1.57E-06	< 1.44E-06	< 1.52E-06	< 1.50E-06	< 1.54E-06
1 * Cyclobutane				1.57E-05														
Cyclohexane	110-82-7	< 1.13E-06	< 1.10E-06	< 1.10E-06	< 1.43E-06	< 2.26E-06	< 1.34E-06	< 1.10E-06	< 8.67E-07	< 1.06E-06	< 1.04E-06	< 1.12E-06	< 1.10E-06	< 1.10E-06	< 1.01E-06	< 1.06E-06	< 1.05E-06	< 1.08E-06
1 * Cyclohexanone	00108-94-1				1.34E-05													
1 * Cyclohexene	00110-82-7				3.12E-06													
1 * Cyclooctadiene												2.25E-05						
Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	7.96E-07	1.64E-06	1.47E-06	< 1.63E-06	< 2.09E-06	< 1.24E-06	< 1.02E-06	< 8.05E-07	< 9.84E-07	< 9.65E-07	< 1.04E-06	< 1.02E-06	< 1.02E-06	4.59E-06	6.92E-07	< 9.77E-07	< 1.00E-06
Cyclopentene	142-29-0	< 9.13E-07	< 8.92E-07	< 8.92E-07	< 1.15E-06	< 1.83E-06	< 1.08E-06	< 8.92E-07	< 7.01E-07	< 8.57E-07	< 8.41E-07	< 9.10E-07	< 8.92E-07	< 8.92E-07	< 8.17E-07	< 8.61E-07	< 8.51E-07	< 8.74E-07
1 Dibromochloromethane	00124-48-1	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 Dichlorodifluoromethane	00075-71-8	1.61E-06	< 6.29E-06	2.39E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	1.67E-06	< 9.90E-07	1.72E-06	< 5.94E-06	2.05E-06	2.96E-06	1.51E-06	< 5.76E-06	1.55E-06	< 4.81E-06	1.17E-06
d-Limonene	5989-27-5	< 9.13E-06	< 8.92E-06	< 8.92E-06	< 1.17E-05	< 1.83E-05	< 1.08E-05	< 8.92E-06	< 7.01E-06	< 8.57E-06	< 8.41E-06	< 9.10E-06	< 8.92E-06	< 8.92E-06	< 8.17E-06	< 8.61E-06	< 8.51E-06	< 8.74E-06
1 Epichlorohydrin	00106-89-8	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.68E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
Ethane	74-84-0	3.83E-06	3.74E-06	2.56E-06	6.00E-06	4.63E-06	6.93E-06	3.35E-06	3.66E-06	3.78E-06	2.78E-06	3.82E-06	3.94E-06	3.94E-07	3.60E-07	1.62E-06	4.70E-06	3.67E-06
1 * Ethanol					2.23E-06			9.44E-05			1.78E-05		3.15E-05	6.29E-04				
Ethylacetylene	107-00-6	< 7.25E-07	< 7.08E-07	< 7.08E-07	< 9.16E-07	< 1.45E-06	< 8.60E-07	< 7.08E-07	< 5.57E-07	< 6.81E-07	< 6.68E-07	< 7.22E-07	< 7.08E-07	< 7.08E-07	< 6.48E-07	< 6.84E-07	< 6.76E-07	< 6.94E-07
Ethylbenzene	100-41-4	< 1.42E-06	< 1.39E-06	< 1.39E-06	1.34E-06	< 2.85E-06	< 1.69E-06	< 1.39E-06	< 1.09E-06	< 1.34E-06	< 1.31E-06	< 1.42E-06	< 1.39E-06	< 1.39E-06	< 1.27E-06	< 1.34E-06	< 1.33E-06	< 1.36E-06
Ethylene	74-85-1	2.07E-06	2.02E-06	1.62E-06	< 1.54E-06	< 7.52E-07	< 4.46E-07	< 3.67E-07	< 7.94E-07	< 3.53E-07	< 3.46E-07	1.37E-06	< 3.67E-07	< 3.67E-07	< 3.36E-07	1.54E-06	< 1.29E-06	< 3.60E-07
1 Hexachlorobutadiene	00087-68-3	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.68E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
Isobutane	75-28-5	2.34E-06	2.09E-06	2.09E-06	< 9.84E-07	2.92E-06	< 9.24E-07	< 7.61E-07	< 6.73E-07	< 7.32E-07	< 7.18E-07	1.84E-06	< 7.61E-07	< 7.61E-07	7.32E-06	< 7.35E-07	< 9.57E-07	2.05E-06
Isobutylene + 1-Butene	115-11-7/106-98-9	3.38E-05	< 7.34E-07	3.49E-05	1.61E-06	< 1.50E-06	< 8.92E-07	< 7.34E-07	9.44E-06	7.77E-05	< 6.93E-07	< 7.49E-07	4.77E-05	8.08E-05	1.08E-05	< 7.09E-07	2.09E-05	< 7.20E-07
Isooctane	540-84-1	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.93E-06	< 3.06E-06	< 1.82E-06	< 1.50E-06	< 1.18E-06	< 1.44E-06	< 1.41E-06	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.37E-06	< 1.44E-06	< 1.43E-06	< 1.47E-06
Isopentane	78-78-4	1.14E-05	1.38E-05	1.28E-05	3.48E-05	9.28E-06	2.52E-05	6.42E-06	2.48E-05	5.81E-06	< 8.91E-07	7.71E-06	7.18E-06	1.70E-05	9.08E-04	8.39E-06	1.14E-05	5.37E-06
Isoprene	78-79-5	< 9.13E-07	4.28E-07	< 8.92E-07	< 1.15E-06	< 1.83E-06	< 1.08E-06	< 8.92E-07	< 7.01E-07	< 8.57E-07	< 8.41E-07	< 9.10E-07	< 8.92E-07	< 8.92E-07	< 8.17E-07	< 8.61E-07	< 8.51E-07	< 8.74E-07
1 * Isopropanol	00067-63-0	9.66E-06	6.29E-05	3.15E-05	5.58E-06				8.25E-07	1.82E-05			1.26E-05	6.29E-04				9.25E-06
Methylacetylene	74-99-7	< 5.23E-07	< 5.11E-07	< 5.11E-07	< 6.61E-07	< 1.05E-06	< 6.21E-07	< 5.11E-07	< 4.02E-07	< 4.92E-07	< 4.82E-07	< 5.22E-07	< 5.11E-07	< 5.11E-07	< 4.68E-07	< 4.94E-07	< 4.88E-07	< 5.01E-07
Methylcyclohexane	108-87-2	< 1.32E-06	< 1.29E-06	< 1.29E-06	< 1.66E-06	< 2.63E-06	< 1.56E-06	< 1.29E-06	< 1.01E-06	< 1.24E-06	< 1.21E-06	< 1.31E-06	< 1.29E-06	< 1.29E-06	< 1.18E-06	< 1.24E-06	< 1.23E-06	< 1.26E-06
Methylcyclopentane	96-37-7	1.60E-06	2.20E-06	2.57E-06	2.06E-06	< 2.26E-06	2.07E-06	< 1.10E-06	1.31E-06	< 1.06E-06	< 1.04E-06	< 1.12E-06	< 1.10E-06	< 1.10E-06	1.71E-05	2.84E-06	< 1.05E-06	< 1.08E-06
1 Methylene Chloride	00075-09-2	1.26E-03	4.09E-04	2.27E-03	1.76E-04	5.15E-04	4.59E-03	1.16E-03	1.72E-03	1.60E-03	1.13E-03	2.60E-03	1.57E-03	1.10E-03	1.96E-04	2.49E-03	2.30E-03	1.14E-03
m-Ethyltoluene	620-14-4	< 1.61E-06	< 1.57E-06	< 1.57E-06	< 2.04E-06	< 3.22E-06	< 1.91E-06	< 1.57E-06	< 1.24E-06	< 1.51E-06	< 1.48E-06	< 1.61E-06	< 1.57E-06	< 1.57E-06	< 1.44E-06	< 1.52E-06	< 1.50E-06	< 1.54E-06
m-Xylene + p-Xylene	108-38-3/106-42-3	1.01E-06	1.91E-06	9.03E-06	9.24E-06	3.20E-06	< 1.69E-06	< 1.39E-06	< 1.08E-06	< 1.34E-06	< 1.31E-06	< 1.42E-06	< 1.39E-06	< 1.39E-06	< 1.27E-06	< 1.34E-06	< 1.42E-06	< 1.36E-06
1 * Naphthalene																	3.00E-06	
n-Butane	106-97-8	1.32E-05	7.42E-06	1.24E-05	3.07E-06	6.82E-06	2.54E-06	2.66E-06	1.56E-06	< 7.32E-07	< 7.18E-07	6.79E-06	< 7.61E-07	8.94E-06	7.66E-06	7.90E-06	3.51E-06	2.80E-06
n-Decane	124-18-5	< 9.53E-06	< 9.31E-06	< 9.31E-06	2.64E-06	< 1.91E-05	< 1.13E-05	< 9.31E-06	< 7.33E-06	< 8.95E-06	< 8.78E-06	< 9.50E-06	< 9.31E-06	< 9.31E-06	< 8.53E-06	< 8.99E-06	< 8.89E-06	< 9.13E-06
n-Heptane	142-82-5	< 1.34E-06	< 1.31E-06	< 1.31E-06	< 1.70E-06	< 2.69E-06	< 1.59E-06	< 1.31E-06	< 1.03E-06	< 1.26E-06	< 1.24E-06	< 1.34E-06	< 1.31E-06	< 1.31E-06	< 1.20E-06	< 1.27E-06	< 1.25E-06	< 1.29E-06
n-Hexane	110-54-3	7.49E-06	1.03E-05	6.96E-06	1.66E-05	9.22E-06	1.64E-05	4.12E-06	3.12E-05	2.69E-06	< 1.06E-06	6.50E-06	5.25E-06	5.26E-06	3.00E-04	2.63E-05	8.53E-06	4.96E-06
n-Nonane	111-84-2	< 1.72E-06	< 1.68E-06	< 1.68E-06	< 2.17E-06	< 3.44E-06	< 2.04E-06	< 1.68E-06	< 1.32E-06	< 1.61E-06	< 1.58E-06	< 1.71E-06	< 1.68E-06	< 1.68E-06	< 1.54E-06	< 1.62E-06	< 1.60E-06	< 1.65E-06
n-Octane	111-65-9	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.93E-06	< 3.06E-06	< 1.82E-06	< 1.50E-06	< 1.18E-06	< 1.44E-06	< 1.41E-06	< 1.53E-06	< 1.50E-06	< 1.50E-06	< 1.37E-06	< 1.44E-06	< 1.43E-06	< 1.47E-06
n-Pentane	109-66-0	1.26E-06	3.40E-06	9.44E-07	< 1.19E-06	< 1.93E-06	< 1.15E-06	< 9.44E-07	< 7.43E-07	< 9.08E-07	< 8.91E-07	4.24E-06	< 9.44E-07	< 9.44E-07	2.38E-06	2.92E-06	< 9.02E-07	< 9.26E-07
n-Propylbenzene	103-65-1	< 1.61E-06	< 1.57E-06	< 1.57E-06	< 2.04E-06	< 3.22E-06	< 1.91E-06	< 1.57E-06	< 1.24E-06	< 1.51E-06	< 1.48E-06	< 1.61E-06	< 1.57E-06	< 1.57E-06	5.62E-06	< 1.52E-06	< 1.50E-06	< 1.54E-06
1 * n-Undecane	00112-21-4				1.34E-05				7.43E-07									
o-Ethyltoluene	611-14-3	< 8.05E-06	< 7.87E-06	< 7.87E-06	< 1.03E-05	< 1.61E-05	1.47E-05	< 7.87E-06	< 6.19E-06	< 7.56E-06	< 7.42E-06	< 8.03E-06	< 7.87E-06	< 7.87E-06	< 7.20E-06	< 7.60E-06	< 5.73E-06	< 7.71E-06
o-Xylene	95-47-6	< 1.42E-06	< 1.39E-06	< 1.39E-06	2.01E-06	1.78E-06	< 1.69E-06	< 1.39E-06	< 1.09E-06	< 1.34E-06	< 1.31E-06	< 1.42E-06	< 1.39E-06	< 1.39E-06	< 1.27E-06	< 1.34E-06	< 1.33E-06	< 1.36E-06
p-Cymene	99-87-6	< 8.99E-06	< 8.78E-06	< 8.78E-06	< 9.34E-06	< 1.80E-05	< 1.07E-05	< 8.78E-06	< 6.91E-06	< 8.45E-06	< 8.29E-06	< 8.96E-06	< 8.78E-06	< 8.78E-06	< 8.04E-06	< 8.48E-06	< 8.39E-06	< 8.61E-06
p-Ethyltoluene	622-96-8	< 1.61E-06	< 1.57E-06	< 1.57E-06	< 2.04E-06	< 3.22E-06	< 1.91E-06	< 1.57E-06	< 1.24E-06	< 1.51E-06	< 1.48E-06	< 1.61E-06	< 1.57E-06	< 1.57E-06	< 1.44E-06	< 1.52E-06	< 1.50E-06	< 1.54E-06
Propane	74-98-6	3.15E-06	< 5.77E-07	1.92E-06	4.39E-06	2.95E-06	2.27E-06	1.87E-06	1.46E-06	< 5.55E-07	< 5.45E-07	2.75E-06	< 5.77E-07	< 5.77E-07	< 5.29E-07	< 5.57E-07	< 1.68E-06	1.85E-06
Propylene	115-07-1	7.89E-07	9.55E-07	< 5.51E-07	1.23E-06	< 1.13E-06	< 6.69E-07	< 5.51E-07	< 9.34E-07	< 5.30E-07	2.77E-06	< 5.62E-07	< 5.51E-07	< 5.51E-07	< 5.04E-07	< 5.32E-07	< 5.84E-07	< 5.40E-07
1 Propylene Oxide	00075-56-9	< 5.15E-06	1.04E-04	< 5.03E-06	< 2.68E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	3.63E-05	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 2.66E-05	< 4.94E-06
Styrene	100-42-5	< 1.40E-06	< 1.36E-06	< 1.36E-06	< 1.76E-06	< 2.79E-06	< 1.66E-06	< 1.36E-06	< 1.07E-06	< 1.31E-06	< 1.29E-06	< 1.39E-06	< 1.36E-06	< 1.36E-06	< 1.25E-06	< 1.32E-06	< 1.30E-06	< 1.34E-06
1 t-Butyl Methyl Ether	01634-04-4	< 5.15E-06	< 1.26E-05	< 5.03E-06	< 2.68E-06	< 2.58E-05	< 6.12E-06	< 5.03E-06	< 1.98E-06	< 4.84E-06	< 1.19E-05	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 1.15E-05	< 4.86E-06	< 9.62E-06	< 4.94E-06
1 * tert-Butyl Alcohol				9.44E-06				3.15E-05		3.03E-05	2.67E-05			1.26E-05	1.15E-04			
1 Tetrachloroethene	00127-18-4	< 2.58E-06	< 6.29E-06	5.35E-07	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
Toluene	108-88-3	4.23E-06	6.20E-06	6.03E-06	1.18E-05	3.00E-06	2.72E-06	2.76E-06	2.30E-06	2.98E-06	< 1.14E-06	3.87E-06	3.96E-05	3.27E-06	9.94E-06	4.49E-06	4.22E-06	5.57E-06
1 trans-1,2-Dichloroethene	00156-60-5	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 trans-1,2-Dichloropropene	10061-01-5	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
trans-2-Butene	624-64-6	< 7.52E-07	< 7.34E-07	< 7.34E-07	< 9.50E-07	< 1.50E-06	< 8.92E-07	< 7.34E-07	< 5.78E-07	< 7.06E-07	< 6.93E-07	< 7.49E-07	< 7.34E-07	< 7.34E-07	< 6.73E-07	< 7.09E-07	< 7.01E-07	< 7.20E-07
trans-2-Hexene	4050-45-7	< 1.13E-06	< 1.10E-06	< 1.10E-06	< 6.05E-06	< 2.26E-06	< 1.34E-06	< 1.10E-06	< 8.67E-07	< 1.06E-06	< 1.04E-06	< 1.12E-06	< 1.10E-06	< 1.10E-06	< 1.01E-06	< 1.06E-06	< 1.05E-06	< 1.08E-06
trans-2-Pentene	646-04-8	< 9.40E-07	4.04E-07	< 9.18E-07	< 1.19E-06	< 1.88E-06	< 1.12E-06	< 9.18E-07	< 7.22E-07	< 8.83E-07	< 8.66E-07	< 9.37E-07	< 9.18E-07	< 9.18E-07	< 8.41E-07	< 8.87E-07	< 8.77E-07	< 9.00E-07
1 Trichloroethene	00079-01-6	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 Trichlorofluoromethane	00075-69-4	3.09E-06	< 6.29E-06	2.77E-06	2.98E-06	< 1.29E-05	< 3.06E-06	2.39E-06	< 1.46E-06	3.03E-06	< 5.94E-06	2.89E-06	3.15E-06	1.83E-06	< 5.76E-06	3.34E-06	< 4.90E-06	2.25E-06
1 Trichlorotrifluoroethane	00076-13-1	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 Vinyl Acetate	00108-05-4	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 Vinyl Chloride	00075-01-4	< 2.58E-06	< 6.29E-06	< 2.52E-06	< 1.34E-06	< 1.29E-05	< 3.06E-06	< 2.52E-06	< 9.90E-07	< 2.42E-06	< 5.94E-06	< 2.57E-06	< 2.52E-06	< 2.52E-06	< 5.76E-06	< 2.43E-06	< 4.81E-06	< 2.47E-06
1 * (1-Methoxy-1-Methylethyl)-Benzene							1.53E-05											
TOTAL Detected		1.51E-03	1.27E-03	2.77E-03	4.47E-04	6.59E-04	5.27E-03	2.77E-03	2.36E-03	2.53E-03	2.66E-03	3.83E-03	1.89E-03	2.03E-03	3.44E-03	2.80E-03	2.54E-03	1.31E-03
TOTAL with non-detects		< 1.76E-03	< 1.73E-03	< 3.02E-03	< 6.59E-04	< 1.65E-03	< 5.57E-03	< 3.04E-03	< 2.52E-03	< 2.77E-03	< 3.11E-03	< 4.09E-03	< 2.15E-03	< 3.10E-03	< 3.80E-03	< 3.04E-03	< 3.16E-03	< 1.56E-03

1 - Results from Method TO-14 * - Tentatively Identified Compound

TRC

Table E.1 - 4 Platen Press

Sulfur Summary

	CAS #	Cmpd.#1 µg/m³	Cmpd.#2 µg/m³	Cmpd.#3 µg/m³	Cmpd.#5 µg/m³	Cmpd.#7 µg/m³	Cmpd.#9 µg/m³	Cmpd.#10 µg/m³	Cmpd.#11 µg/m³	Cmpd.#12 µg/m³	Cmpd.#13 µg/m³	Cmpd.#14 µg/m³	Cmpd.#16 µg/m³	Cmpd.#17 µg/m³	Cmpd.#19 µg/m³	Cmpd.#20 µg/m³	Cmpd.#22 µg/m³	Cmpd.#23 µg/m³
Carbonyl Sulfide	463-58-1	< 9.80	116.0	< 9.80	< 13.2	< 20.00	< 9.80	< 9.80	< 13.2	145.00	112.00	274.00	< 9.80	< 9.80	< 9.80	< 9.80	< 13.2	85.80
Methyl Mercaptan	74-93-1	< 7.90	< 16.0	< 7.90	< 10.6	< 16.00	< 7.90	< 7.90	< 10.6	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 10.6	< 7.90
Ethyl Mercaptan	75-08-1	< 10.00	< 20.0	< 10.0	< 13.3	< 20.00	< 10.00	< 10.0	< 13.3	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.3	< 10.0
Dimethyl Sulfide	75-18-3	< 10.00	< 20.0	< 10.0	< 13.3	< 20.00	< 10.00	< 10.0	< 13.3	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.3	< 10.0
Carbon Disulfide	75-15-0	< 6.20	1330.00	< 6.20	< 6.2	< 6.20	< 6.20	3080.00	1070	1530.00	2320.00	1870.00	< 6.20	< 6.20	< 6.20	< 6.20	< 6.2	19.00
Isopropyl Mercaptan	75-33-2	< 12.00	< 25.0	< 12.0	< 16.3	< 25.00	< 12.00	< 12.0	< 16.3	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 16.3	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15.00	< 29.0	< 15.0	< 19.7	< 29.00	< 15.00	< 15.0	< 19.7	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 19.7	< 15.0
n-Propyl Mercaptan	107-03-9	< 12.00	< 25.0	< 12.0	< 16.3	< 25.00	< 12.00	< 12.0	< 16.3	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 16.3	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12.00	< 25.0	< 12.0	< 16.3	< 25.00	< 12.00	< 12.0	< 16.3	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 16.3	< 12.0
Thiophene	110-02-1	< 14.00	< 28.0	< 14.0	< 18.7	< 28.00	< 14.00	< 14.0	< 18.7	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 18.7	< 14.0
Isobutyl Mercaptan	513-44-0	< 15.00	< 29.0	< 15.0	< 19.7	< 29.00	< 15.00	< 15.0	< 19.7	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 19.7	< 15.0
Diethyl Sulfide	352-93-2	< 15.00	< 29.0	< 15.0	< 19.7	< 29.00	< 15.00	< 15.0	< 19.7	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 19.7	< 15.0
n-Butyl Mercaptan	109-79-5	< 15.00	< 29.0	< 15.0	< 19.7	< 29.00	< 15.00	< 15.0	< 19.7	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 19.7	< 15.0
Dimethyl Disulfide	624-92-0	< 7.70	< 15.0	< 7.70	< 10.1	< 15.00	< 7.70	< 7.70	< 10.1	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 10.1	< 7.70
3-Methylthiophene	616-44-4	< 16.00	< 32.0	< 16.0	< 21.3	< 32.00	< 16.00	< 16.0	< 21.3	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 21.3	< 16.0
Tetrahydrothiophene	110-01-0	< 14.00	< 29.0	< 14.0	< 19.0	< 29.00	< 14.00	< 14.0	< 19.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 19.0	< 14.0
2-Ethylthiophene	872-55-9	< 18.00	< 37.0	< 18.0	< 24.3	< 37.00	< 18.00	< 18.0	< 24.3	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 24.3	< 18.0
2,5-Dimethylthiophene	638-02-8	< 18.00	< 37.0	< 18.0	< 24.3	< 37.00	< 18.00	< 18.0	< 24.3	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 24.3	< 18.0
Diethyl Disulfide	110-81-6	< 10.00	< 20.0	< 10.0	< 13.3	< 20.00	< 10.00	< 10.0	< 13.3	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.3	< 10.0
Total detected		0.00	1446	0.00	0.00	0.00	0.00	3080	1070	1675	2432	2144	0.00	0.00	0.00	0.00	0.00	105
Total w/ non detects		< 237.60	< 1891.00	< 237.60	< 315.47	< 471.20	< 237.60	< 3311.40	< 1379.27	< 1896.60	< 2653.60	< 2365.60	< 237.60	< 237.60	< 237.60	< 237.60	< 315.47	< 326.40

TRC

Table E.1 - 4 Platen Press

Sulfur Summary

	CAS #	Cmpd.#1 lb/hr	Cmpd.#2 lb/hr	Cmpd.#3 lb/hr	Cmpd.#5 lb/hr	Cmpd.#7 lb/hr	Cmpd.#9 lb/hr	Cmpd.#10 lb/hr	Cmpd.#11 lb/hr	Cmpd.#12 lb/hr	Cmpd.#13 lb/hr	Cmpd.#14 lb/hr	Cmpd.#16 lb/hr	Cmpd.#17 lb/hr	Cmpd.#19 lb/hr	Cmpd.#20 lb/hr	Cmpd.#22 lb/hr	Cmpd.#23 lb/hr
Carbonyl Sulfide	463-58-1	< 1.58E-06	1.83E-05	< 1.54E-06	< 2.28E-06	< 3.22E-06	< 1.84E-06	< 1.54E-06	< 2.47E-06	2.28E-05	1.76E-05	4.31E-05	< 1.54E-06	< 1.54E-06	< 1.47E-06	< 1.58E-06	< 2.48E-06	1.35E-05
Methyl Mercaptan	74-93-1	< 1.27E-06	< 2.52E-06	< 1.24E-06	< 1.83E-06	< 2.58E-06	< 1.48E-06	< 1.24E-06	< 1.99E-06	< 1.24E-06	< 1.24E-06	< 1.24E-06	< 1.24E-06	< 1.24E-06	< 1.18E-06	< 1.27E-06	< 1.99E-06	< 1.24E-06
Ethyl Mercaptan	75-08-1	< 1.61E-06	< 3.15E-06	< 1.57E-06	< 2.30E-06	< 3.22E-06	< 1.87E-06	< 1.57E-06	< 2.50E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.50E-06	< 1.61E-06	< 2.50E-06	< 1.57E-06
Dimethyl Sulfide	75-18-3	< 1.61E-06	< 3.15E-06	< 1.57E-06	< 2.30E-06	< 3.22E-06	< 1.87E-06	< 1.57E-06	< 2.50E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.50E-06	< 1.61E-06	< 2.50E-06	< 1.57E-06
Carbon Disulfide	75-15-0	< 9.99E-07	2.09E-04	< 9.75E-07	< 1.04E-06	< 9.99E-07	< 1.16E-06	4.85E-04	2.00E-04	2.41E-04	3.65E-04	2.94E-04	< 9.75E-07	< 9.75E-07	< 9.29E-07	< 9.99E-07	< 1.16E-06	2.99E-06
Isopropyl Mercaptan	75-33-2	< 1.93E-06	< 3.93E-06	< 1.89E-06	< 2.82E-06	< 4.03E-06	< 2.25E-06	< 1.89E-06	< 3.06E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.80E-06	< 1.93E-06	< 3.06E-06	< 1.89E-06
tert-Butyl Mercaptan	75-66-1	< 2.42E-06	< 4.56E-06	< 2.36E-06	< 3.38E-06	< 4.67E-06	< 2.81E-06	< 2.36E-06	< 3.68E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.25E-06	< 2.42E-06	< 3.68E-06	< 2.36E-06
n-Propyl Mercaptan	107-03-9	< 1.93E-06	< 3.93E-06	< 1.89E-06	< 2.82E-06	< 4.03E-06	< 2.25E-06	< 1.89E-06	< 3.06E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.80E-06	< 1.93E-06	< 3.06E-06	< 1.89E-06
Ethyl Methyl Sulfide	624-89-5	< 1.93E-06	< 3.93E-06	< 1.89E-06	< 2.82E-06	< 4.03E-06	< 2.25E-06	< 1.89E-06	< 3.06E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.89E-06	< 1.80E-06	< 1.93E-06	< 3.06E-06	< 1.89E-06
Thiophene	110-02-1	< 2.26E-06	< 4.41E-06	< 2.20E-06	< 3.22E-06	< 4.51E-06	< 2.62E-06	< 2.20E-06	< 3.50E-06	< 2.20E-06	< 2.20E-06	< 2.20E-06	< 2.20E-06	< 2.20E-06	< 2.10E-06	< 2.26E-06	< 3.49E-06	< 2.20E-06
Isobutyl Mercaptan	513-44-0	< 2.42E-06	< 4.56E-06	< 2.36E-06	< 3.38E-06	< 4.67E-06	< 2.81E-06	< 2.36E-06	< 3.68E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.25E-06	< 2.42E-06	< 3.68E-06	< 2.36E-06
Diethyl Sulfide	352-93-2	< 2.42E-06	< 4.56E-06	< 2.36E-06	< 3.38E-06	< 4.67E-06	< 2.81E-06	< 2.36E-06	< 3.68E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.25E-06	< 2.42E-06	< 3.68E-06	< 2.36E-06
n-Butyl Mercaptan	109-79-5	< 2.42E-06	< 4.56E-06	< 2.36E-06	< 3.38E-06	< 4.67E-06	< 2.81E-06	< 2.36E-06	< 3.68E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.36E-06	< 2.25E-06	< 2.42E-06	< 3.68E-06	< 2.36E-06
Dimethyl Disulfide	624-92-0	< 1.24E-06	< 2.36E-06	< 1.21E-06	< 1.74E-06	< 2.42E-06	< 1.44E-06	< 1.21E-06	< 1.90E-06	< 1.21E-06	< 1.21E-06	< 1.21E-06	< 1.21E-06	< 1.21E-06	< 1.15E-06	< 1.24E-06	< 1.90E-06	< 1.21E-06
3-Methylthiophene	616-44-4	< 2.58E-06	< 5.03E-06	< 2.52E-06	< 3.68E-06	< 5.15E-06	< 3.00E-06	< 2.52E-06	< 4.00E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 2.52E-06	< 2.40E-06	< 2.58E-06	< 4.00E-06	< 2.52E-06
Tetrahydrothiophene	110-01-0	< 2.26E-06	< 4.56E-06	< 2.20E-06	< 3.28E-06	< 4.67E-06	< 2.62E-06	< 2.20E-06	< 3.56E-06	< 2.20E-06	< 2.20E-06	< 2.20E-06	< 2.20E-06	< 2.20E-06	< 2.10E-06	< 2.26E-06	< 3.56E-06	< 2.20E-06
2-Ethylthiophene	872-55-9	< 2.90E-06	< 5.82E-06	< 2.83E-06	< 4.20E-06	< 5.96E-06	< 3.37E-06	< 2.83E-06	< 4.56E-06	< 2.83E-06	< 2.83E-06	< 2.83E-06	< 2.83E-06	< 2.83E-06	< 2.70E-06	< 2.90E-06	< 4.56E-06	< 2.83E-06
2,5-Dimethylthiophene	638-02-8	< 2.90E-06	< 5.82E-06	< 2.83E-06	< 4.20E-06	< 5.96E-06	< 3.37E-06	< 2.83E-06	< 4.56E-06	< 2.83E-06	< 2.83E-06	< 2.83E-06	< 2.83E-06	< 2.83E-06	< 2.70E-06	< 2.90E-06	< 4.56E-06	< 2.83E-06
Diethyl Disulfide	110-81-6	< 1.61E-06	< 3.15E-06	< 1.57E-06	< 2.30E-06	< 3.22E-06	< 1.87E-06	< 1.57E-06	< 2.50E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.57E-06	< 1.50E-06	< 1.61E-06	< 2.50E-06	< 1.57E-06
Total detected		0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	2.00E-04	2.64E-04	3.83E-04	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
Total w/ non detects		< 3.83E-05	< 2.98E-04	< 3.74E-05	< 5.43E-05	< 7.59E-05	< 4.45E-05	< 5.21E-04	< 2.58E-04	< 2.98E-04	< 4.17E-04	< 3.72E-04	< 3.74E-05	< 3.74E-05	< 3.56E-05	< 3.83E-05	< 5.91E-05	< 5.14E-05

TRC

Table E.1 - 4 Platen Press

Sulfur Summary

	CAS #	Cmpd.#1 lb/lb rubber	Cmpd.#2 lb/lb rubber	Cmpd.#3 lb/lb rubber	Cmpd.#5 lb/lb rubber	Cmpd.#7 lb/lb rubber	Cmpd.#9 lb/lb rubber	Cmpd.#10 lb/lb rubber	Cmpd.#11 lb/lb rubber	Cmpd.#12 lb/lb rubber	Cmpd.#13 lb/lb rubber	Cmpd.#14 lb/lb rubber	Cmpd.#16 lb/lb rubber	Cmpd.#17 lb/lb rubber	Cmpd.#19 lb/lb rubber	Cmpd.#20 lb/lb rubber	Cmpd.#22 lb/lb rubber	Cmpd.#23 lb/lb rubber
Carbonyl Sulfide	463-58-1	< 3.16E-06	3.65E-05	< 3.08E-06	< 4.50E-06	< 6.44E-06	< 3.75E-06	< 3.08E-06	< 3.25E-06	4.39E-05	3.32E-05	8.80E-05	< 3.08E-06	< 3.08E-06	< 2.88E-06	< 2.98E-06	< 4.01E-06	2.65E-05
Methyl Mercaptan	74-93-1	< 2.55E-06	< 5.03E-06	< 2.49E-06	< 3.62E-06	< 5.15E-06	< 3.02E-06	< 2.49E-06	< 2.61E-06	< 2.39E-06	< 2.35E-06	< 2.54E-06	< 2.49E-06	< 2.49E-06	< 2.32E-06	< 2.40E-06	< 3.22E-06	< 2.44E-06
Ethyl Mercaptan	75-08-1	< 3.22E-06	< 6.29E-06	< 3.15E-06	< 4.55E-06	< 6.44E-06	< 3.82E-06	< 3.15E-06	< 3.28E-06	< 3.03E-06	< 2.97E-06	< 3.21E-06	< 3.15E-06	< 3.15E-06	< 2.94E-06	< 3.04E-06	< 4.05E-06	< 3.08E-06
Dimethyl Sulfide	75-18-3	< 3.22E-06	< 6.29E-06	< 3.15E-06	< 4.55E-06	< 6.44E-06	< 3.82E-06	< 3.15E-06	< 3.28E-06	< 3.03E-06	< 2.97E-06	< 3.21E-06	< 3.15E-06	< 3.15E-06	< 2.94E-06	< 3.04E-06	< 4.05E-06	< 3.08E-06
Carbon Disulfide	75-15-0	< 2.00E-06	4.19E-04	< 1.95E-06	< 2.06E-06	< 2.00E-06	< 2.37E-06	9.69E-04	2.65E-04	4.63E-04	6.89E-04	6.00E-04	< 1.95E-06	< 1.95E-06	< 1.82E-06	< 1.88E-06	< 1.87E-06	5.86E-06
Isopropyl Mercaptan	75-33-2	< 3.87E-06	< 7.87E-06	< 3.78E-06	< 5.58E-06	< 8.05E-06	< 4.59E-06	< 3.78E-06	< 4.01E-06	< 3.63E-06	< 3.56E-06	< 3.85E-06	< 3.78E-06	< 3.78E-06	< 3.53E-06	< 3.65E-06	< 4.96E-06	< 3.70E-06
tert-Butyl Mercaptan	75-66-1	< 4.83E-06	< 9.13E-06	< 4.72E-06	< 6.70E-06	< 9.34E-06	< 5.73E-06	< 4.72E-06	< 4.84E-06	< 4.54E-06	< 4.45E-06	< 4.82E-06	< 4.72E-06	< 4.72E-06	< 4.41E-06	< 4.56E-06	< 5.97E-06	< 4.63E-06
n-Propyl Mercaptan	107-03-9	< 3.87E-06	< 7.87E-06	< 3.78E-06	< 5.58E-06	< 8.05E-06	< 4.59E-06	< 3.78E-06	< 4.01E-06	< 3.63E-06	< 3.56E-06	< 3.85E-06	< 3.78E-06	< 3.78E-06	< 3.53E-06	< 3.65E-06	< 4.96E-06	< 3.70E-06
Ethyl Methyl Sulfide	624-89-5	< 3.87E-06	< 7.87E-06	< 3.78E-06	< 5.58E-06	< 8.05E-06	< 4.59E-06	< 3.78E-06	< 4.01E-06	< 3.63E-06	< 3.56E-06	< 3.85E-06	< 3.78E-06	< 3.78E-06	< 3.53E-06	< 3.65E-06	< 4.96E-06	< 3.70E-06
Thiophene	110-02-1	< 4.51E-06	< 8.81E-06	< 4.41E-06	< 6.36E-06	< 9.02E-06	< 5.35E-06	< 4.41E-06	< 4.59E-06	< 4.24E-06	< 4.16E-06	< 4.50E-06	< 4.41E-06	< 4.41E-06	< 4.11E-06	< 4.25E-06	< 5.67E-06	< 4.32E-06
Isobutyl Mercaptan	513-44-0	< 4.83E-06	< 9.13E-06	< 4.72E-06	< 6.70E-06	< 9.34E-06	< 5.73E-06	< 4.72E-06	< 4.84E-06	< 4.54E-06	< 4.45E-06	< 4.82E-06	< 4.72E-06	< 4.72E-06	< 4.41E-06	< 4.56E-06	< 5.97E-06	< 4.63E-06
Diethyl Sulfide	352-93-2	< 4.83E-06	< 9.13E-06	< 4.72E-06	< 6.70E-06	< 9.34E-06	< 5.73E-06	< 4.72E-06	< 4.84E-06	< 4.54E-06	< 4.45E-06	< 4.82E-06	< 4.72E-06	< 4.72E-06	< 4.41E-06	< 4.56E-06	< 5.97E-06	< 4.63E-06
n-Butyl Mercaptan	109-79-5	< 4.83E-06	< 9.13E-06	< 4.72E-06	< 6.70E-06	< 9.34E-06	< 5.73E-06	< 4.72E-06	< 4.84E-06	< 4.54E-06	< 4.45E-06	< 4.82E-06	< 4.72E-06	< 4.72E-06	< 4.41E-06	< 4.56E-06	< 5.97E-06	< 4.63E-06
Dimethyl Disulfide	624-92-0	< 2.48E-06	< 4.72E-06	< 2.42E-06	< 3.45E-06	< 4.83E-06	< 2.94E-06	< 2.42E-06	< 2.49E-06	< 2.33E-06	< 2.29E-06	< 2.47E-06	< 2.42E-06	< 2.42E-06	< 2.26E-06	< 2.34E-06	< 3.08E-06	< 2.38E-06
3-Methylthiophene	616-44-4	< 5.15E-06	< 1.01E-05	< 5.03E-06	< 7.27E-06	< 1.03E-05	< 6.12E-06	< 5.03E-06	< 5.25E-06	< 4.84E-06	< 4.75E-06	< 5.14E-06	< 5.03E-06	< 5.03E-06	< 4.70E-06	< 4.86E-06	< 6.48E-06	< 4.94E-06
Tetrahydrothiophene	110-01-0	< 4.51E-06	< 9.13E-06	< 4.41E-06	< 6.49E-06	< 9.34E-06	< 5.35E-06	< 4.41E-06	< 4.67E-06	< 4.24E-06	< 4.16E-06	< 4.50E-06	< 4.41E-06	< 4.41E-06	< 4.11E-06	< 4.25E-06	< 5.77E-06	< 4.32E-06
2-Ethylthiophene	872-55-9	< 5.80E-06	< 1.16E-05	< 5.66E-06	< 8.31E-06	< 1.19E-05	< 6.88E-06	< 5.66E-06	< 5.98E-06	< 5.45E-06	< 5.34E-06	< 5.78E-06	< 5.66E-06	< 5.66E-06	< 5.29E-06	< 5.47E-06	< 7.41E-06	< 5.55E-06
2,5-Dimethylthiophene	638-02-8	< 5.80E-06	< 1.16E-05	< 5.66E-06	< 8.31E-06	< 1.19E-05	< 6.88E-06	< 5.66E-06	< 5.98E-06	< 5.45E-06	< 5.34E-06	< 5.78E-06	< 5.66E-06	< 5.66E-06	< 5.29E-06	< 5.47E-06	< 7.41E-06	< 5.55E-06
Diethyl Disulfide	110-81-6	< 3.22E-06	< 6.29E-06	< 3.15E-06	< 4.55E-06	< 6.44E-06	< 3.82E-06	< 3.15E-06	< 3.28E-06	< 3.03E-06	< 2.97E-06	< 3.21E-06	< 3.15E-06	< 3.15E-06	< 2.94E-06	< 3.04E-06	< 4.05E-06	< 3.08E-06
Total detected		0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-04	2.65E-04	5.07E-04	7.22E-04	6.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
Total w/ non detects		< 7.66E-05	< 5.95E-04	< 7.48E-05	< 1.08E-04	< 1.52E-04	< 9.08E-05	< 1.04E-03	< 3.42E-04	< 5.74E-04	< 7.88E-04	< 7.60E-04	< 7.48E-05	< 7.48E-05	< 6.98E-05	< 7.22E-05	< 9.58E-05	< 1.01E-04

TRC

Table E.1 - 5 Platen Press

POM Train Results

	Cmpd.#1	Cmpd.#2	Cmpd.#3	Cmpd.#5	Cmpd.#7	Cmpd.#9	Cmpd.#10	Cmpd.#11	Cmpd.#12	Cmpd.#13	Cmpd.#14	Cmpd.#16	Cmpd.#17	Cmpd.#19	Cmpd.#20	Cmpd.#22	Cmpd.#23
POM (mg)*	3.8	0.7	1.0	0.9	2.1	0.6	1.8	0.9	4.3	0.8	0.2	2.2	0.3	0.4	1.3	1.0	3.0
Sample Volume (dscf)	77.353	75.366	73.882	77.9	74.956	91.326	75.937	88.7	73.820	73.897	74.607	75.076	72.828	78.710	77.783	91.0	73.207
POM Concentration (mg/m³)	1.73	0.33	0.48	0.39	0.99	0.23	0.84	0.36	2.06	0.38	0.09	1.03	0.15	0.18	0.59	0.37	1.45
Flowrate (dscfm)	43	42	42	45	43	50	42	50	42	42	42	42	42	40	43	50	42
POM (lb/hr)	2.79E-04	5.16E-05	7.52E-05	6.57E-05	1.59E-04	4.35E-05	1.32E-04	6.83E-05	3.24E-04	6.01E-05	1.49E-05	1.63E-04	2.29E-05	2.69E-05	9.51E-05	7.00E-05	2.28E-04
Total Rubber Processed (lbs/hr)	0.50	0.50	0.50	0.50	0.50	0.49	0.50	0.76	0.52	0.53	0.49	0.50	0.50	0.51	0.53	0.62	0.51
POM (lbs/lb rubber)	5.59E-04	1.03E-04	1.50E-04	1.30E-04	3.19E-04	8.87E-05	2.63E-04	8.98E-05	6.22E-04	1.13E-04	3.04E-05	3.26E-04	4.58E-05	5.27E-05	1.79E-04	1.10E-04	4.46E-04

* Blank Corrected

TRC

SECTION F

GRINDING OPERATIONS

F.1 Retread Buffing
F.2 Carcass Grinding
F.3 Sidewall/Whitewall Grinding
F.4 Belt Grinding

Section F.1

Retread Buffing

TRC

Section F.1

Retread Buffing

Table Number	Title	No. of Pages
F.1-1	Retread Buffing Summary Table	1
F.1-2	Retread Buffing Speciated Semivolatiles Summary	6
F.1-3	Retread Buffing Speciated Volatiles Summary	12
F.1-4	Retread Buffing Sulfur Summary	1
F.1-5	Retread Buffing Metals Summary	1
F.1-6	Retread Buffing POM Summary	1
F.1-7	Retread Buffing Particulate Matter Summary	1

TRC

TABLE F.1-1
RETREAD BUFFING SUMMARY

	Run 1		Run 2		Run 3		Averages	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Number of Rolls per run	160		181		170		170	
Total rubber processed (lbs/run)	15,777		13,854		13,283		14,305	
Total Surface Area (in²/run)	591,300		656,910		633,724		627,311	
Total Surface Area (ft²/run)	4,106.3		4,561.9		4,400.9		4,356.3	
Run Time (min)	120		120		120		120	
Total VOCs (ppm/run)	28.1		47.2		19.1		31.5	
Total VOCs (lbs/hr)	1.57		2.57		1.01		1.72	
Total VOCs (lbs/lb rubber)	1.98E-04		3.70E-04		1.52E-04		2.40E-04	
Standard Deviation (lbs/lb rubber)	9.99E-05		2.54E-04		1.23E-04		1.59E-04	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Speciated Semi Vol (µg/m³)	376.88	75.86	290.95	121.55	186.52	103.16	284.78	100.19
Speciated Semi Vol (lbs/hr)	1.17E-02	2.55E-03	8.71E-03	4.06E-03	5.45E-03	3.29E-03	8.62E-03	3.30E-03
Speciated Semi Vol (lbs/lb rubber processed) Detected	1.48E-06	3.23E-07	1.26E-06	5.86E-07	8.20E-07	4.95E-07	1.19E-06	4.68E-07
Spec. Semi Vol (lbs/lb rubber processed) with non-detects	< 2.74E-06	< 5.30E-07	< 2.71E-06	< 8.11E-07	< 2.31E-06	< 7.74E-07	< 2.59E-06	< 7.05E-07
Speciated Volatiles (µg/m³)	335,349	101,967	402,731	12,394	119,779	855	285,953	38,405
Speciated Volatiles (lbs/hr)	1.73E-01	5.70E-02	2.01E-01	6.90E-03	5.83E-02	4.54E-04	1.44E-01	2.15E-02
Speciated Volatiles (lb/lb rubber processed) Detected	1.10E-05	3.62E-06	1.45E-05	4.98E-07	4.39E-06	3.42E-08	9.96E-06	1.38E-06
Speciated Vol. (lb/lb rubber processed) with non-detects	< 1.10E-05	< 3.63E-06	< 1.45E-05	< 5.17E-07	< 4.44E-06	< 5.64E-08	< 9.98E-06	< 1.40E-06
Total Sulfur (µg/m³)	223	37.6	235	19.1	187	ND	215.0	18.9
Total Sulfur (lbs/hr)	6.90E-03	1.26E-03	7.04E-03	6.38E-04	5.46E-03	ND	6.46E-03	6.33E-04
Total Sulfur (lbs/lb rubber processed) Detected	8.74E-07	1.60E-07	1.02E-06	9.20E-08	8.22E-07	ND	9.04E-07	8.40E-08
Total Sulfur (lbs/lb rubber processed) with non-detects	< 1.78E-06	< 1.14E-06	< 3.03E-06	< 1.21E-06	< 2.87E-06	< 1.14E-06	< 2.56E-06	< 1.16E-06
Total Metals (µg/m³)	26627.9	37.18	25807.18	23.47	16629.64	1095.64	23021.57	385.43
Total Metals (lbs/hr)	8.11E-01	1.42E-03	7.61E-01	8.72E-04	4.82E-01	4.05E-02	6.85E-01	1.43E-02
Total Metals (lbs/lb rubber processed) Detected	1.03E-04	1.80E-07	1.10E-04	1.26E-07	7.26E-05	6.10E-06	9.51E-05	2.14E-06
Total Metals (lbs/lb rubber processed) with non-detects	1.03E-04	< 1.83E-07	1.10E-04	< 1.30E-07	7.26E-05	< 6.11E-06	9.51E-05	< 2.14E-06
POM (mg/m³)	20.79	4.41	13.81	7.53	8.13	3.77	14.24	5.23
POM (lbs/hr)	6.25E-01	1.67E-01	4.11E-01	2.82E-01	2.34E-01	1.39E-01	4.23E-01	1.96E-01
POM (lb/lb rubber processed)	7.92E-05	2.12E-05	5.93E-05	4.07E-05	3.52E-05	2.10E-05	5.79E-05	2.76E-05
PM (mg/m³)	2581.8	7.4	2404.0	8.6	1885.8	100.0	2290.5	38.7
PM (lbs/hr)	78.589	0.282	70.908	0.320	54.636	3.699	68.044	1.434
PM (lb/lb rubber processed)	9.96E-03	3.57E-05	1.02E-02	4.62E-05	8.23E-03	5.57E-04	9.48E-03	2.13E-04

TRC

TABLE F.1-2
RETREAD BUFFING SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Numbers	Inlet Run 1	Inlet Run 2	Inlet Run 3	Outlet Run 1	Outlet Run 2	Outlet Run 3	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (µg/m³)									
Pyridine	110-86-1	< 3.71	< 3.75	< 3.71	< 0.56	< 0.55	< 0.66	< 3.72	< 0.59
Phenol	108-95-2	71.39	109.02	36.90	8.80	13.84	10.62	72.44	11.08
bis(2-Chloroethyl)ether	111-44-4	< 2.56	< 2.58	< 2.55	< 0.38	< 0.38	< 0.46	< 2.56	< 0.41
2-Chlorophenol	95-57-8	< 1.70	< 1.72	< 1.69	< 0.25	< 0.25	< 0.30	< 1.70	< 0.27
1,3-Dichlorobenzene	541-73-1	< 1.67	< 1.68	< 1.66	< 0.25	< 0.25	< 0.30	< 1.67	< 0.26
1,4-Dichlorobenzene	106-46-7	0.57	0.61	0.68	0.67	0.54	0.98	0.62	0.73
1,2-Dichlorobenzene	95-50-1	< 1.71	< 1.73	< 1.71	< 0.26	< 0.25	< 0.30	< 1.72	< 0.27
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.89	< 2.92	< 2.88	< 0.43	< 0.43	< 0.52	< 2.90	< 0.46
Benzyl alcohol	100-51-6	< 3.19	< 3.22	< 3.19	0.40	0.41	0.76	< 3.20	0.52
2-Methylphenol	95-48-7	0.52	1.03	< 2.39	0.22	0.34	0.23	< 1.31	0.26
3/4-Methylphenol	108-39-4/106-44-5	0.82	1.29	< 2.25	0.29	0.47	0.36	< 1.45	0.37
N-Nitroso-di-n-propylamine	621-64-7	< 4.06	< 4.10	< 4.05	< 0.61	< 0.60	< 0.73	< 4.07	< 0.64
Hexachloroethane	67-72-1	< 3.60	< 3.64	< 3.60	< 0.54	< 0.53	< 0.65	< 3.61	< 0.57
Nitrobenzene	98-95-3	< 2.64	< 2.73	< 2.89	< 0.38	< 0.38	< 0.47	< 2.76	< 0.41
Isophorone	78-59-1	1.62	1.51	1.47	0.96	1.01	0.71	1.54	0.89
2-Nitrophenol	88-75-5	< 3.05	< 3.14	< 3.33	< 0.44	< 0.44	< 0.54	< 3.18	< 0.47
2,4-Dimethylphenol	105-67-9	< 2.57	< 2.66	< 2.82	< 0.37	< 0.37	< 0.45	< 2.68	< 0.40
bis(2-Chloroethoxy)methane	111-91-1	< 2.18	< 2.25	< 2.38	< 0.31	< 0.31	< 0.39	< 2.27	< 0.34
Benzoic acid	65-85-0	115.40	26.58	21.57	< 0.69	2.35	12.02	54.52	< 5.02
2,4-Dichlorophenol	120-83-2	< 2.47	< 2.56	< 2.71	< 0.36	< 0.36	< 0.43	< 2.58	< 0.38
1,2,4-Trichlorobenzene	120-82-1	< 2.21	< 2.29	< 2.43	< 0.32	< 0.32	< 0.39	< 2.31	< 0.34
Naphthalene	91-20-3	5.52	5.20	4.37	4.36	4.28	4.02	5.03	4.22
4-Chloroaniline	106-47-8	< 1.60	< 1.65	< 1.75	< 0.23	< 0.23	< 0.28	< 1.66	< 0.25
Hexachlorobutadiene	87-68-3	< 3.63	< 3.75	< 3.98	< 0.52	< 0.53	< 0.64	< 3.79	< 0.56
4-Chloro-3-methylphenol	59-50-7	< 2.78	< 2.87	< 3.04	< 0.40	< 0.40	< 0.49	< 2.90	< 0.43
2-Methylnaphthalene	91-57-6	1.97	1.33	1.21	1.08	0.99	0.81	1.50	0.96
Hexachlorocyclopentadiene	77-47-4	< 4.42	< 4.81	< 4.91	< 0.62	< 0.63	< 0.79	< 4.71	< 0.68
2,4,6-Trichlorophenol	88-06-2	< 3.79	< 4.12	< 4.21	< 0.54	< 0.53	< 0.68	< 4.04	< 0.58
2,4,5-Trichlorophenol	95-95-4	< 3.69	< 4.02	< 4.10	< 0.52	< 0.52	< 0.66	< 3.94	< 0.57
2-Chloronaphthalene	91-58-7	< 1.20	< 1.31	< 1.34	< 0.17	< 0.17	< 0.22	< 1.28	< 0.18
2-Nitroaniline	88-74-4	< 5.14	< 5.59	< 5.71	< 0.73	< 0.73	< 0.92	< 5.48	< 0.79
Dimethylphthalate	131-11-3	< 1.06	< 1.15	< 1.18	0.86	0.32	0.49	< 1.13	0.56
2,6-Dinitrotoluene	606-20-2	< 4.19	< 4.57	< 4.66	< 0.59	< 0.59	< 0.75	< 4.48	< 0.64
2,4-Dinitrotoluene	121-14-2	< 3.26	< 3.55	< 3.63	< 0.46	< 0.46	< 0.58	< 3.48	< 0.50
Acenaphthylene	208-96-8	7.86	6.59	6.09	5.11	4.99	2.85	6.85	4.32
3-Nitroaniline	99-09-2	< 3.74	< 4.08	< 4.16	< 0.53	< 0.53	< 0.67	< 4.00	< 0.58
Acenaphthene	83-32-9	0.56	0.39	0.38	0.36	0.34	0.21	0.44	0.30
2,4-Dinitrophenol	105-67-9	< 12.27	< 13.37	< 13.64	< 1.73	< 1.74	< 2.19	< 13.09	< 1.89
4-Nitrophenol	100-02-7	< 9.82	< 10.69	< 10.92	< 1.38	< 1.39	< 1.76	< 10.48	< 1.51
Dibenzofuran	132-64-9	< 0.81	< 0.88	< 0.90	< 0.11	< 0.12	< 0.14	< 0.86	< 0.12
Diethylphthalate	84-66-2	0.38	1.29	0.94	1.19	1.84	0.82	0.87	1.28
4-Chlorophenyl-phenylether	70005-72-3	< 2.20	< 2.40	< 2.45	< 0.31	< 0.31	< 0.39	< 2.35	< 0.34
Fluorene	86-73-7	0.97	0.66	0.55	0.32	0.44	0.24	0.73	0.33
4-Nitroaniline	100-01-6	< 3.73	< 4.07	< 4.15	< 0.53	< 0.53	< 0.67	< 3.98	< 0.58
4,6-Dinitro-2-methylphenol	534-52-1	< 9.51	< 9.90	< 10.23	< 1.33	< 1.27	< 1.76	< 9.88	< 1.45
4-Bromophenyl-phenylether	101-55-3	< 4.53	< 4.71	< 4.87	< 0.63	< 0.60	< 0.84	< 4.71	< 0.69
Hexachlorobenzene	118-74-1	< 3.53	< 3.67	< 3.80	< 0.49	< 0.47	< 0.65	< 3.67	< 0.54
Pentachlorophenol	87-86-5	< 7.94	< 8.26	< 8.53	< 1.10	< 1.06	< 1.47	< 8.25	< 1.21
Phenanthrene	85-01-8	6.88	4.79	5.07	0.88	1.15	1.47	5.58	1.17
Anthracene	120-12-7	< 0.97	< 1.02	< 1.05	< 0.13	< 0.13	< 0.18	< 1.01	< 0.15
Di-n-butylphthalate	84-74-2	16.65	5.91	5.75	1.65	41.73	2.39	9.44	15.26
Fluoranthene	206-44-0	8.58	5.35	5.87	0.22	0.28	0.63	6.60	0.38
Pyrene	129-00-0	41.84	31.93	30.84	1.40	1.65	3.91	34.87	2.32
Butylbenzylphthalate	85-68-7	< 1.43	< 1.67	< 1.42	0.49	0.37	< 0.35	< 1.51	< 0.40
3,3'-Dichlorobenzidine	91-94-1	< 2.80	< 3.27	< 2.78	< 0.61	< 0.53	< 0.68	< 2.95	< 0.61
bis(2-Ethylhexyl)phthalate	117-81-7	6.46	4.48	3.45	3.53	4.97	3.69	4.79	4.06

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TABLE F.1-2
RETREAD BUFFING SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Numbers	Inlet Run 1	Inlet Run 2	Inlet Run 3	Outlet Run 1	Outlet Run 2	Outlet Run 3	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (µg/m³)									
Benzo(a)anthracene	56-55-3	6.54	4.34	4.91	< 0.21	< 0.19	0.50	5.26	< 0.30
Chrysene	218-01-9	4.16	2.55	2.20	< 0.24	< 0.21	0.27	2.97	< 0.24
Di-n-octylphthalate	117-84-0	< 0.63	< 0.81	< 0.65	0.19	0.22	0.22	< 0.70	0.21
Benzo(b)fluoranthene	205-99-2	1.77	< 1.30	1.60	< 0.24	< 0.20	< 0.24	< 1.56	< 0.23
Benzo(k)fluoranthene	207-08-9	< 1.03	< 1.31	< 1.06	< 0.24	< 0.20	< 0.24	< 1.13	< 0.23
Benzo(a)pyrene	50-32-8	< 1.08	< 1.38	< 1.11	< 0.25	< 0.22	< 0.26	< 1.19	< 0.24
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.08	< 1.39	< 1.12	< 0.25	< 0.22	< 0.26	< 1.19	< 0.24
Dibenz(a,h)anthracene	53-90-3	< 1.33	< 1.71	< 1.37	< 0.31	< 0.26	< 0.32	< 1.47	< 0.30
Benzo(g,h,i)perylene	191-24-2	5.47	4.48	4.33	< 0.30	< 0.25	1.37	4.76	< 0.64
n-Nitrosodimethylamine	62-75-9	< 7.61	< 7.68	< 7.60	< 1.14	< 1.12	< 1.36	< 7.63	< 1.21
Cumene	98-82-8	< 1.14	< 1.15	< 1.14	0.26	0.24	0.29	< 1.15	0.26
Aniline	62-53-3	19.64	17.33	10.89	7.26	5.68	4.77	15.95	5.91
Benzyl Chloride	100-44-7	< 1.55	< 1.57	< 1.55	< 0.23	< 0.23	< 0.28	< 1.55	< 0.25
Acetophenone	98-86-2	4.26	6.00	3.23	2.86	4.23	6.22	4.50	4.43
n-Nitrosomorpholine	59-89-2	< 4.79	< 4.83	< 4.78	< 0.72	< 0.71	< 0.86	< 4.80	< 0.76
o-Toluidine	95-53-4	< 1.79	< 1.81	< 1.78	< 0.27	< 0.26	< 0.32	< 1.79	< 0.28
N,N-Dimethylaniline	121-69-7	< 1.60	< 1.65	< 1.75	< 0.23	< 0.23	< 0.28	< 1.66	< 0.25
1,2-Dibromo-3-chloropropane	96-12-8	< 4.63	< 4.68	< 4.62	< 0.70	< 0.68	< 0.83	< 4.64	< 0.74
o-Anisidine	90-04-0	< 3.06	< 3.16	< 3.35	< 0.44	< 0.44	< 0.54	< 3.19	< 0.47
1,4-Phenylenediamine	106-50-3	< 4.01	< 4.14	< 4.39	< 0.58	< 0.58	< 0.71	< 4.18	< 0.62
N,N-Diethylaniline	91-66-7	< 1.21	< 1.22	< 1.21	< 0.18	< 0.18	< 0.22	< 1.21	< 0.19
a,a,a-Trichlorotoluene	98-07-7	< 2.12	< 2.19	< 2.32	< 0.30	< 0.31	< 0.37	< 2.21	< 0.33
Hydroquinone	123-31-9	< 3.22	< 3.32	< 3.52	< 0.46	< 0.47	< 0.57	< 3.35	< 0.50
2-Chloroacetophenone	1341-24-8	< 1.25	< 1.29	< 1.37	< 0.18	< 0.18	< 0.22	< 1.31	< 0.19
Biphenyl	92-52-4	1.95	1.53	1.28	1.14	1.25	0.81	1.59	1.07
Trifluralin	1582-09-8	< 5.99	< 6.53	< 6.67	< 0.85	< 0.85	< 1.07	< 6.40	< 0.92
4-Aminobiphenyl	92-67-1	< 1.62	< 1.68	< 1.73	< 0.22	< 0.22	< 0.30	< 1.68	< 0.25
Pentachloronitrobenzene	82-68-8	< 11.51	< 11.98	< 12.37	< 1.61	< 1.53	< 2.13	< 11.96	< 1.76
4-Nitrobiphenyl	92-93-3	< 3.94	< 4.10	< 4.24	< 0.55	< 0.53	< 0.73	< 4.09	< 0.60
Benzidine	92-87-5	< 1.61	< 1.88	< 1.59	< 0.35	< 0.31	< 0.39	< 1.69	< 0.35
4,4'-Methylenedianiline	101-77-9	< 2.78	< 3.24	< 2.76	< 0.60	< 0.53	< 0.67	< 2.93	< 0.60
Dimethylaminoazobenzene	60-11-7	< 2.73	< 3.19	< 2.71	< 0.59	< 0.52	< 0.66	< 2.88	< 0.59
3,3'-Dimethylbenzidine	119-93-7	< 1.47	< 1.72	< 1.46	< 0.32	< 0.28	< 0.35	< 1.55	< 0.32
3,3'-Dimethoxybenzidine	119-90-4	< 3.31	< 3.86	< 3.29	< 0.72	< 0.63	< 0.80	< 3.49	< 0.72
Methylene bis-chloroaniline	101-14-4	< 5.67	< 6.62	< 5.62	< 1.23	< 1.08	< 1.37	< 5.97	< 1.23
3-Furaldehyde	498-60-2	< 5.67	< 5.73	< 5.66	< 0.85	< 0.84	< 1.02	< 5.69	< 0.90
2-Furaldehyde	98-01-1	2.84	5.33	4.00	1.63	1.59	1.59	4.05	1.60
Cyclohexylamine	108-91-8	< 17.73	< 17.90	< 17.69	< 2.66	< 2.62	< 3.17	< 17.77	< 2.82
N-Nitrosodiethylamine	55-18-5	< 5.41	< 5.46	< 5.40	< 0.81	< 0.80	< 0.97	< 5.42	< 0.86
Cyclohexanone	108-94-1	< 3.38	5.96	1.61	2.66	6.64	18.24	< 3.65	9.18
1,3-Cyclooctadiene	1700-10-3	< 3.09	< 3.12	< 3.08	< 0.46	< 0.46	< 0.55	< 3.10	< 0.49
1,5-Cyclooctadiene	111-78-4	< 6.70	< 6.77	< 6.69	< 1.00	< 0.99	< 1.20	< 6.72	< 1.06
Camphene	79-92-5	< 3.34	< 3.37	< 3.34	< 0.50	< 0.49	< 0.60	< 3.35	< 0.53
Benzaldehyde	100-52-7	31.40	25.64	21.62	25.20	17.11	19.05	26.22	20.45
Benzonitrile	100-47-0	< 1.16	< 1.17	< 1.16	< 0.17	< 0.17	< 0.21	< 1.16	< 0.18
Isooctanol	26952-21-6	< 30.97	< 31.26	< 30.91	< 4.64	< 4.57	< 5.55	< 31.05	< 4.92
1,2,4-Trimethylbenzene	95-63-6	0.71	0.66	0.62	0.59	0.64	0.68	0.66	0.64
3-Methylstyrene	100-80-1	< 1.64	< 1.65	< 1.63	< 0.24	< 0.24	< 0.29	< 1.64	< 0.26
4-Methylstyrene	622-97-9	< 1.80	< 1.82	< 1.80	< 0.27	< 0.27	< 0.32	< 1.81	< 0.29
4-Chlorostyrene	1073-67-2	< 1.99	< 2.00	< 1.98	< 0.30	< 0.29	< 0.35	< 1.99	< 0.32
1-Dodecene	112-41-4	< 11.63	< 12.01	< 12.73	< 1.67	< 1.69	< 2.05	< 12.12	< 1.80
Phthalimide	85-41-6	< 6.37	< 6.94	< 7.08	< 0.90	< 0.90	< 1.14	< 6.80	< 0.98
Diphenylamine	122-39-4	10.17	9.22	5.08	1.29	1.66	1.95	8.15	1.63
Total Detected		376.88	290.95	186.52	75.86	121.55	103.16	284.78	100.19
Total with non-detects		< 699.81	< 627.89	< 526.47	< 124.66	< 168.36	< 161.25	< 618.06	< 151.43

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TABLE F.1-2
RETREAD BUFFING SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Numbers	Inlet Run 1	Inlet Run 2	Inlet Run 3	Outlet Run 1	Outlet Run 2	Outlet Run 3	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (lb/hr)									
Pyridine	110-86-1	< 1.15E-04	< 1.12E-04	< 1.08E-04	< 1.87E-05	< 1.83E-05	< 2.11E-05	< 1.12E-04	< 1.94E-05
Phenol	108-95-2	2.21E-03	3.26E-03	1.08E-03	2.95E-04	4.62E-04	3.38E-04	2.18E-03	3.65E-04
bis(2-Chloroethyl)ether	111-44-4	< 7.90E-05	< 7.71E-05	< 7.45E-05	< 1.29E-05	< 1.25E-05	< 1.46E-05	< 7.69E-05	< 1.33E-05
2-Chlorophenol	95-57-8	< 5.25E-05	< 5.14E-05	< 4.95E-05	< 8.49E-06	< 8.35E-06	< 9.71E-06	< 5.11E-05	< 8.85E-06
1,3-Dichlorobenzene	541-73-1	< 5.16E-05	< 5.04E-05	< 4.86E-05	< 8.35E-06	< 8.20E-06	< 9.57E-06	< 5.02E-05	< 8.71E-06
1,4-Dichlorobenzene	106-46-7	1.78E-05	1.82E-05	1.99E-05	2.26E-05	1.80E-05	3.11E-05	1.86E-05	2.39E-05
1,2-Dichlorobenzene	95-50-1	< 5.30E-05	< 5.18E-05	< 4.99E-05	< 8.63E-06	< 8.49E-06	< 9.71E-06	< 5.16E-05	< 8.95E-06
2,2'-oxybis(1-Chloropropane)	108-60-1	< 8.95E-05	< 8.73E-05	< 8.42E-05	< 1.46E-05	< 1.42E-05	< 1.64E-05	< 8.70E-05	< 1.51E-05
Benzyl alcohol	100-51-6	< 9.87E-05	< 9.65E-05	< 9.31E-05	1.36E-05	1.37E-05	2.41E-05	< 9.61E-05	1.71E-05
2-Methylphenol	95-48-7	1.60E-05	3.09E-05	< 6.98E-05	7.36E-06	1.14E-05	7.43E-06	< 3.89E-05	8.72E-06
3/4-Methylphenol	108-39-4/106-44-5	2.53E-05	3.86E-05	< 6.57E-05	9.62E-06	1.55E-05	1.14E-05	< 4.32E-05	1.22E-05
N-Nitroso-di-n-propylamine	621-64-7	< 1.25E-04	< 1.23E-04	< 1.18E-04	< 2.04E-05	< 2.00E-05	< 2.31E-05	< 1.22E-04	< 2.12E-05
Hexachloroethane	67-72-1	< 1.11E-04	< 1.09E-04	< 1.05E-04	< 1.81E-05	< 1.77E-05	< 2.06E-05	< 1.08E-04	< 1.88E-05
Nitrobenzene	98-95-3	< 8.17E-05	< 8.18E-05	< 8.45E-05	< 1.27E-05	< 1.28E-05	< 1.49E-05	< 8.27E-05	< 1.35E-05
Isophorone	78-59-1	5.01E-05	4.53E-05	4.31E-05	3.21E-05	3.38E-05	2.26E-05	4.61E-05	2.95E-05
2-Nitrophenol	88-75-5	< 9.43E-05	< 9.42E-05	< 9.73E-05	< 1.47E-05	< 1.47E-05	< 1.71E-05	< 9.53E-05	< 1.55E-05
2,4-Dimethylphenol	105-67-9	< 7.96E-05	< 7.96E-05	< 8.23E-05	< 1.25E-05	< 1.24E-05	< 1.44E-05	< 8.05E-05	< 1.31E-05
bis(2-Chloroethoxy)methane	111-91-1	< 6.73E-05	< 6.72E-05	< 6.95E-05	< 1.05E-05	< 1.05E-05	< 1.23E-05	< 6.80E-05	< 1.11E-05
Benzoic acid	65-85-0	3.57E-03	7.96E-04	6.30E-04	< 2.32E-05	7.86E-05	3.83E-04	1.67E-03	< 1.62E-04
2,4-Dichlorophenol	120-83-2	< 7.66E-05	< 7.66E-05	< 7.91E-05	< 1.20E-05	< 1.19E-05	< 1.39E-05	< 7.74E-05	< 1.26E-05
1,2,4-Trichlorobenzene	120-82-1	< 6.85E-05	< 6.85E-05	< 7.08E-05	< 1.08E-05	< 1.06E-05	< 1.24E-05	< 6.93E-05	< 1.13E-05
Naphthalene	91-20-3	1.71E-04	1.56E-04	1.28E-04	1.46E-04	1.43E-04	1.28E-04	1.51E-04	1.39E-04
4-Chloroaniline	106-47-8	< 4.94E-05	< 4.93E-05	< 5.11E-05	< 7.78E-06	< 7.77E-06	< 9.00E-06	< 4.99E-05	< 8.18E-06
Hexachlorobutadiene	87-68-3	< 1.12E-04	< 1.12E-04	< 1.16E-04	< 1.76E-05	< 1.76E-05	< 2.04E-05	< 1.14E-04	< 1.85E-05
4-Chloro-3-methylphenol	59-50-7	< 8.60E-05	< 8.60E-05	< 8.89E-05	< 1.34E-05	< 1.34E-05	< 1.56E-05	< 8.69E-05	< 1.41E-05
2-Methylnaphthalene	91-57-6	6.10E-05	3.99E-05	3.52E-05	3.61E-05	3.31E-05	2.59E-05	4.54E-05	3.17E-05
Hexachlorocyclopentadiene	77-47-4	< 1.37E-04	< 1.44E-04	< 1.43E-04	< 2.09E-05	< 2.09E-05	< 2.51E-05	< 1.41E-04	< 2.23E-05
2,4,6-Trichlorophenol	88-06-2	< 1.17E-04	< 1.23E-04	< 1.23E-04	< 1.80E-05	< 1.78E-05	< 2.16E-05	< 1.21E-04	< 1.91E-05
2,4,5-Trichlorophenol	95-95-4	< 1.14E-04	< 1.20E-04	< 1.20E-04	< 1.74E-05	< 1.74E-05	< 2.10E-05	< 1.18E-04	< 1.86E-05
2-Chloronaphthalene	91-58-7	< 3.72E-05	< 3.92E-05	< 3.90E-05	< 5.66E-06	< 5.61E-06	< 6.86E-06	< 3.84E-05	< 6.04E-06
2-Nitroaniline	88-74-4	< 1.59E-04	< 1.68E-04	< 1.67E-04	< 2.43E-05	< 2.43E-05	< 2.93E-05	< 1.64E-04	< 2.60E-05
Dimethylphthalate	131-11-3	< 3.28E-05	< 3.45E-05	< 3.43E-05	2.87E-05	1.06E-05	1.57E-05	< 3.39E-05	1.84E-05
2,6-Dinitrotoluene	606-20-2	< 1.30E-04	< 1.37E-04	< 1.36E-04	< 1.98E-05	< 1.99E-05	< 2.39E-05	< 1.34E-04	< 2.12E-05
2,4-Dinitrotoluene	121-14-2	< 1.01E-04	< 1.06E-04	< 1.06E-04	< 1.54E-05	< 1.54E-05	< 1.86E-05	< 1.04E-04	< 1.65E-05
Acenaphthylene	208-96-8	2.43E-04	1.97E-04	1.78E-04	1.72E-04	1.67E-04	9.07E-05	2.06E-04	1.43E-04
3-Nitroaniline	99-09-2	< 1.16E-04	< 1.22E-04	< 1.22E-04	< 1.77E-05	< 1.77E-05	< 2.13E-05	< 1.20E-04	< 1.89E-05
Acenaphthene	83-32-9	1.72E-05	1.16E-05	1.12E-05	1.22E-05	1.12E-05	6.71E-06	1.33E-05	1.00E-05
2,4-Dinitrophenol	105-67-9	< 3.80E-04	< 4.00E-04	< 3.98E-04	< 5.80E-05	< 5.80E-05	< 6.98E-05	< 3.93E-04	< 6.20E-05
4-Nitrophenol	100-02-7	< 3.04E-04	< 3.20E-04	< 3.19E-04	< 4.64E-05	< 4.63E-05	< 5.60E-05	< 3.14E-04	< 4.96E-05
Dibenzofuran	132-64-9	< 2.50E-05	< 2.63E-05	< 2.62E-05	< 3.82E-06	< 3.89E-06	< 4.57E-06	< 2.58E-05	< 4.09E-06
Diethylphthalate	84-66-2	1.18E-05	3.86E-05	2.75E-05	4.01E-05	6.15E-05	2.60E-05	2.59E-05	4.25E-05
4-Chlorophenyl-phenylether	70005-72-3	< 6.82E-05	< 7.19E-05	< 7.16E-05	< 1.05E-05	< 1.04E-05	< 1.26E-05	< 7.05E-05	< 1.11E-05
Fluorene	86-73-7	3.01E-05	1.96E-05	1.61E-05	1.06E-05	1.48E-05	7.71E-06	2.20E-05	1.11E-05
4-Nitroaniline	100-01-6	< 1.15E-04	< 1.22E-04	< 1.21E-04	< 1.77E-05	< 1.77E-05	< 2.13E-05	< 1.19E-04	< 1.89E-05
4,6-Dinitro-2-methylphenol	534-52-1	< 2.94E-04	< 2.96E-04	< 2.99E-04	< 4.46E-05	< 4.23E-05	< 5.60E-05	< 2.96E-04	< 4.76E-05
4-Bromophenyl-phenylether	101-55-3	< 1.40E-04	< 1.41E-04	< 1.42E-04	< 2.12E-05	< 2.01E-05	< 2.67E-05	< 1.41E-04	< 2.27E-05
Hexachlorobenzene	118-74-1	< 1.09E-04	< 1.10E-04	< 1.11E-04	< 1.66E-05	< 1.57E-05	< 2.09E-05	< 1.10E-04	< 1.77E-05
Pentachlorophenol	87-86-5	< 2.46E-04	< 2.47E-04	< 2.49E-04	< 3.71E-05	< 3.53E-05	< 4.67E-05	< 2.47E-04	< 3.97E-05
Phenanthrene	85-01-8	2.13E-04	1.43E-04	1.48E-04	2.96E-05	3.83E-05	4.69E-05	1.68E-04	3.82E-05
Anthracene	120-12-7	< 3.01E-05	< 3.04E-05	< 3.05E-05	< 4.53E-06	< 4.32E-06	< 5.71E-06	< 3.04E-05	< 4.85E-06
Di-n-butylphthalate	84-74-2	5.15E-04	1.77E-04	1.68E-04	5.55E-05	1.39E-03	7.61E-05	2.87E-04	5.08E-04
Fluoranthene	206-44-0	2.65E-04	1.60E-04	1.71E-04	7.50E-06	9.35E-06	2.00E-05	1.99E-04	1.23E-05
Pyrene	129-00-0	1.29E-03	9.56E-04	9.00E-04	4.71E-05	5.51E-05	1.25E-04	1.05E-03	7.57E-05
Butylbenzylphthalate	85-68-7	< 4.42E-05	< 4.99E-05	< 4.15E-05	1.64E-05	1.22E-05	< 1.10E-05	< 4.52E-05	< 1.32E-05
3,3'-Dichlorobenzidine	91-94-1	< 8.65E-05	< 9.78E-05	< 8.12E-05	< 2.04E-05	< 1.78E-05	< 2.16E-05	< 8.85E-05	< 1.99E-05
bis(2-Ethylhexyl)phthalate	117-81-7	2.00E-04	1.34E-04	1.01E-04	1.18E-04	1.66E-04	1.17E-04	1.45E-04	1.34E-04

TRC

TABLE F.1-2
RETREAD BUFFING SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Numbers	Inlet Run 1	Inlet Run 2	Inlet Run 3	Outlet Run 1	Outlet Run 2	Outlet Run 3	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (lb/hr)									
Benzo(a)anthracene	56-55-3	2.02E-04	1.30E-04	1.43E-04	< 6.94E-06	< 6.19E-06	1.60E-05	1.58E-04	< 9.71E-06
Chrysene	218-01-9	1.29E-04	7.63E-05	6.41E-05	< 7.93E-06	< 7.05E-06	8.57E-06	8.97E-05	< 7.85E-06
Di-n-octylphthalate	117-84-0	< 1.95E-05	< 2.42E-05	< 1.91E-05	6.51E-06	7.34E-06	7.00E-06	< 2.09E-05	6.95E-06
Benzo(b)fluoranthene	205-99-2	5.48E-05	< 3.90E-05	4.68E-05	< 7.93E-06	< 6.76E-06	< 7.71E-06	< 4.69E-05	< 7.47E-06
Benzo(k)fluoranthene	207-08-9	< 3.17E-05	< 3.93E-05	< 3.10E-05	< 7.93E-06	< 6.76E-06	< 7.71E-06	< 3.40E-05	< 7.47E-06
Benzo(a)pyrene	50-32-8	< 3.34E-05	< 4.12E-05	< 3.24E-05	< 8.35E-06	< 7.20E-06	< 8.14E-06	< 3.57E-05	< 7.90E-06
Indeno(1,2,3-cd)pyrene	193-39-5	< 3.35E-05	< 4.15E-05	< 3.26E-05	< 8.49E-06	< 7.20E-06	< 8.28E-06	< 3.59E-05	< 7.99E-06
Dibenz(a,h)anthracene	53-90-3	< 4.13E-05	< 5.11E-05	< 4.01E-05	< 1.03E-05	< 8.78E-06	< 1.01E-05	< 4.42E-05	< 9.75E-06
Benzo(g,h,i)perylene	191-24-2	1.69E-04	1.34E-04	1.26E-04	< 9.91E-06	< 8.35E-06	4.37E-05	1.43E-04	< 2.07E-05
n-Nitrosodimethylamine	62-75-9	< 2.35E-04	< 2.30E-04	< 2.22E-04	< 3.84E-05	< 3.74E-05	< 4.34E-05	< 2.29E-04	< 3.97E-05
Cumene	98-82-8	< 3.54E-05	< 3.45E-05	< 3.33E-05	8.63E-06	7.92E-06	9.14E-06	< 3.44E-05	8.56E-06
Aniline	62-53-3	6.07E-04	5.19E-04	3.18E-04	2.44E-04	1.90E-04	1.52E-04	4.81E-04	1.95E-04
Benzyl Chloride	100-44-7	< 4.79E-05	< 4.69E-05	< 4.52E-05	< 7.78E-06	< 7.63E-06	< 8.86E-06	< 4.67E-05	< 8.09E-06
Acetophenone	98-86-2	1.32E-04	1.80E-04	9.42E-05	9.60E-05	1.41E-04	1.98E-04	1.35E-04	1.45E-04
n-Nitrosomorpholine	59-89-2	< 1.48E-04	< 1.45E-04	< 1.39E-04	< 2.41E-05	< 2.36E-05	< 2.73E-05	< 1.44E-04	< 2.50E-05
o-Toluidine	95-53-4	< 5.54E-05	< 5.41E-05	< 5.21E-05	< 9.06E-06	< 8.78E-06	< 1.01E-05	< 5.39E-05	< 9.33E-06
N,N-Dimethylaniline	121-69-7	< 4.94E-05	< 4.93E-05	< 5.11E-05	< 7.78E-06	< 7.77E-06	< 9.00E-06	< 4.99E-05	< 8.18E-06
1,2-Dibromo-3-chloropropane	96-12-8	< 1.43E-04	< 1.40E-04	< 1.35E-04	< 2.34E-05	< 2.27E-05	< 2.64E-05	< 1.39E-04	< 2.42E-05
o-Anisidine	90-04-0	< 9.46E-05	< 9.46E-05	< 9.77E-05	< 1.49E-05	< 1.48E-05	< 1.71E-05	< 9.57E-05	< 1.56E-05
1,4-Phenylenediamine	106-50-3	< 1.24E-04	< 1.24E-04	< 1.28E-04	< 1.94E-05	< 1.94E-05	< 2.26E-05	< 1.25E-04	< 2.05E-05
N,N-Diethylaniline	91-66-7	< 3.73E-05	< 3.64E-05	< 3.52E-05	< 6.09E-06	< 5.90E-06	< 6.86E-06	< 3.63E-05	< 6.28E-06
a,a,a-Trichlorotoluene	98-07-7	< 6.57E-05	< 6.56E-05	< 6.78E-05	< 1.02E-05	< 1.02E-05	< 1.19E-05	< 6.64E-05	< 1.08E-05
Hydroquinone	123-31-9	< 9.95E-05	< 9.94E-05	< 1.03E-04	< 1.56E-05	< 1.55E-05	< 1.81E-05	< 1.01E-04	< 1.64E-05
2-Chloroacetophenone	1341-24-8	< 3.88E-05	< 3.87E-05	< 4.00E-05	< 6.09E-06	< 6.04E-06	< 7.00E-06	< 3.92E-05	< 6.38E-06
Biphenyl	92-52-4	6.02E-05	4.58E-05	3.74E-05	3.82E-05	4.16E-05	2.59E-05	4.78E-05	3.52E-05
Trifluralin	1582-09-8	< 1.85E-04	< 1.96E-04	< 1.95E-04	< 2.84E-05	< 2.84E-05	< 3.41E-05	< 1.92E-04	< 3.03E-05
4-Aminobiphenyl	92-67-1	< 5.00E-05	< 5.04E-05	< 5.06E-05	< 7.50E-06	< 7.20E-06	< 9.57E-06	< 5.03E-05	< 8.09E-06
Pentachloronitrobenzene	82-68-8	< 3.56E-04	< 3.59E-04	< 3.61E-04	< 5.39E-05	< 5.12E-05	< 6.77E-05	< 3.59E-04	< 5.76E-05
4-Nitrobiphenyl	92-93-3	< 1.22E-04	< 1.23E-04	< 1.24E-04	< 1.84E-05	< 1.76E-05	< 2.31E-05	< 1.23E-04	< 1.97E-05
Benzidine	92-87-5	< 4.98E-05	< 5.62E-05	< 4.65E-05	< 1.17E-05	< 1.02E-05	< 1.24E-05	< 5.08E-05	< 1.15E-05
4,4'-Methylenedianiline	101-77-9	< 8.60E-05	< 9.71E-05	< 8.06E-05	< 2.02E-05	< 1.77E-05	< 2.14E-05	< 8.79E-05	< 1.98E-05
Dimethylaminoazobenzene	60-11-7	< 8.45E-05	< 9.55E-05	< 7.93E-05	< 1.98E-05	< 1.74E-05	< 2.10E-05	< 8.64E-05	< 1.94E-05
3,3'-Dimethylbenzidine	119-93-7	< 4.55E-05	< 5.15E-05	< 4.28E-05	< 1.08E-05	< 9.35E-06	< 1.13E-05	< 4.66E-05	< 1.05E-05
3,3'-Dimethoxybenzidine	119-90-4	< 1.02E-04	< 1.16E-04	< 9.60E-05	< 2.41E-05	< 2.12E-05	< 2.54E-05	< 1.05E-04	< 2.35E-05
Methylene bis-chloroaniline	101-14-4	< 1.75E-04	< 1.98E-04	< 1.64E-04	< 4.12E-05	< 3.61E-05	< 4.36E-05	< 1.79E-04	< 4.03E-05
3-Furaldehyde	498-60-2	< 1.75E-04	< 1.71E-04	< 1.65E-04	< 2.86E-05	< 2.79E-05	< 3.24E-05	< 1.71E-04	< 2.96E-05
2-Furaldehyde	98-01-1	8.77E-05	1.60E-04	1.17E-04	5.46E-05	5.31E-05	5.06E-05	1.21E-04	5.28E-05
Cyclohexylamine	108-91-8	< 5.48E-04	< 5.36E-04	< 5.16E-04	< 8.92E-05	< 8.74E-05	< 1.01E-04	< 5.34E-04	< 9.26E-05
N-Nitrosodiethylamine	55-18-5	< 1.67E-04	< 1.64E-04	< 1.58E-04	< 2.72E-05	< 2.66E-05	< 3.09E-05	< 1.63E-04	< 2.82E-05
Cyclohexanone	108-94-1	< 1.04E-04	1.78E-04	4.71E-05	8.94E-05	2.21E-04	5.81E-04	< 1.10E-04	2.97E-04
1,3-Cyclooctadiene	1700-10-3	< 9.57E-05	< 9.34E-05	< 9.00E-05	< 1.56E-05	< 1.53E-05	< 1.76E-05	< 9.30E-05	< 1.61E-05
1,5-Cyclooctadiene	111-78-4	< 2.07E-04	< 2.03E-04	< 1.95E-04	< 3.37E-05	< 3.30E-05	< 3.83E-05	< 2.02E-04	< 3.50E-05
Camphene	79-92-5	< 1.03E-04	< 1.01E-04	< 9.74E-05	< 1.68E-05	< 1.64E-05	< 1.91E-05	< 1.01E-04	< 1.75E-05
Benzaldehyde	100-52-7	9.71E-04	7.68E-04	6.31E-04	8.46E-04	5.71E-04	6.07E-04	7.90E-04	6.75E-04
Benzonitrile	100-47-0	< 3.59E-05	< 3.51E-05	< 3.37E-05	< 5.80E-06	< 5.76E-06	< 6.57E-06	< 3.49E-05	< 6.04E-06
Isooctanol	26952-21-6	< 9.58E-04	< 9.36E-04	< 9.02E-04	< 1.56E-04	< 1.53E-04	< 1.77E-04	< 9.32E-04	< 1.62E-04
1,2,4-Trimethylbenzene	95-63-6	2.20E-05	1.96E-05	1.82E-05	1.98E-05	2.14E-05	2.17E-05	2.00E-05	2.10E-05
3-Methylstyrene	100-80-1	< 5.07E-05	< 4.95E-05	< 4.77E-05	< 8.21E-06	< 8.06E-06	< 9.28E-06	< 4.93E-05	< 8.52E-06
4-Methylstyrene	622-97-9	< 5.57E-05	< 5.44E-05	< 5.25E-05	< 9.06E-06	< 8.92E-06	< 1.03E-05	< 5.42E-05	< 9.42E-06
4-Chlorostyrene	1073-67-2	< 6.14E-05	< 6.00E-05	< 5.79E-05	< 1.00E-05	< 9.79E-06	< 1.13E-05	< 5.98E-05	< 1.04E-05
1-Dodecene	112-41-4	< 3.60E-04	< 3.60E-04	< 3.72E-04	< 5.62E-05	< 5.63E-05	< 6.54E-05	< 3.64E-04	< 5.93E-05
Phthalimide	85-41-6	< 1.97E-04	< 2.08E-04	< 2.07E-04	< 3.01E-05	< 3.01E-05	< 3.63E-05	< 2.04E-04	< 3.22E-05
Diphenylamine	122-39-4	3.14E-04	2.76E-04	1.48E-04	4.32E-05	5.53E-05	6.21E-05	2.46E-04	5.35E-05
Total Detected		1.17E-02	8.71E-03	5.45E-03	2.55E-03	4.06E-03	3.29E-03	8.60E-03	3.30E-03
Total with non-detects		< 2.16E-02	< 1.88E-02	< 1.54E-02	< 4.18E-03	< 5.62E-03	< 5.14E-03	< 1.86E-02	< 4.98E-03

TRC

TABLE F.1-2
RETREAD BUFFING SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Numbers	Inlet Run 1	Inlet Run 2	Inlet Run 3	Outlet Run 1	Outlet Run 2	Outlet Run 3	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (lb/lb rubber processed)									
Pyridine	110-86-1	< 1.45E-08	< 1.62E-08	< 1.63E-08	< 2.37E-09	< 2.64E-09	< 3.18E-09	< 1.57E-08	< 2.73E-09
Phenol	108-95-2	2.80E-07	4.71E-07	1.62E-07	3.74E-08	6.67E-08	5.09E-08	3.04E-07	5.17E-08
bis(2-Chloroethyl)ether	111-44-4	< 1.00E-08	< 1.11E-08	< 1.12E-08	< 1.63E-09	< 1.81E-09	< 2.19E-09	< 1.08E-08	< 1.88E-09
2-Chlorophenol	95-57-8	< 6.65E-09	< 7.42E-09	< 7.45E-09	< 1.08E-09	< 1.21E-09	< 1.46E-09	< 7.17E-09	< 1.25E-09
1,3-Dichlorobenzene	541-73-1	< 6.54E-09	< 7.27E-09	< 7.31E-09	< 1.06E-09	< 1.18E-09	< 1.44E-09	< 7.04E-09	< 1.23E-09
1,4-Dichlorobenzene	106-46-7	2.25E-09	2.63E-09	3.00E-09	2.87E-09	2.60E-09	4.69E-09	2.63E-09	3.39E-09
1,2-Dichlorobenzene	95-50-1	< 6.72E-09	< 7.48E-09	< 7.51E-09	< 1.09E-09	< 1.23E-09	< 1.46E-09	< 7.24E-09	< 1.26E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.13E-08	< 1.26E-08	< 1.27E-08	< 1.85E-09	< 2.06E-09	< 2.47E-09	< 1.22E-08	< 2.13E-09
Benzyl alcohol	100-51-6	< 1.25E-08	< 1.39E-08	< 1.40E-08	1.72E-09	1.97E-09	3.63E-09	< 1.35E-08	2.44E-09
2-Methylphenol	95-48-7	2.03E-09	4.45E-09	< 1.05E-08	9.33E-10	1.64E-09	1.12E-09	< 5.67E-09	1.23E-09
3/4-Methylphenol	108-39-4/106-44-5	3.20E-09	5.57E-09	< 9.90E-09	1.22E-09	2.24E-09	1.72E-09	< 6.22E-09	1.73E-09
N-Nitroso-di-n-propylamine	621-64-7	< 1.59E-08	< 1.77E-08	< 1.78E-08	< 2.58E-09	< 2.89E-09	< 3.48E-09	< 1.71E-08	< 2.99E-09
Hexachloroethane	67-72-1	< 1.41E-08	< 1.57E-08	< 1.58E-08	< 2.30E-09	< 2.56E-09	< 3.10E-09	< 1.52E-08	< 2.65E-09
Nitrobenzene	98-95-3	< 1.04E-08	< 1.18E-08	< 1.27E-08	< 1.61E-09	< 1.85E-09	< 2.24E-09	< 1.16E-08	< 1.90E-09
Isophorone	78-59-1	6.35E-09	6.53E-09	6.48E-09	4.07E-09	4.88E-09	3.40E-09	6.46E-09	4.12E-09
2-Nitrophenol	88-75-5	< 1.20E-08	< 1.36E-08	< 1.47E-08	< 1.87E-09	< 2.12E-09	< 2.58E-09	< 1.34E-08	< 2.19E-09
2,4-Dimethylphenol	105-67-9	< 1.01E-08	< 1.15E-08	< 1.24E-08	< 1.58E-09	< 1.79E-09	< 2.17E-09	< 1.13E-08	< 1.85E-09
bis(2-Chloroethoxy)methane	111-91-1	< 8.53E-09	< 9.71E-09	< 1.05E-08	< 1.33E-09	< 1.52E-09	< 1.85E-09	< 9.57E-09	< 1.56E-09
Benzoic acid	65-85-0	4.52E-07	1.15E-07	9.48E-08	< 2.94E-09	1.13E-08	5.77E-08	2.21E-07	< 2.40E-08
2,4-Dichlorophenol	120-83-2	< 9.70E-09	< 1.11E-08	< 1.19E-08	< 1.53E-09	< 1.72E-09	< 2.09E-09	< 1.09E-08	< 1.78E-09
1,2,4-Trichlorobenzene	120-82-1	< 8.68E-09	< 9.90E-09	< 1.07E-08	< 1.36E-09	< 1.54E-09	< 1.87E-09	< 9.75E-09	< 1.59E-09
Naphthalene	91-20-3	2.16E-08	2.25E-08	1.92E-08	1.85E-08	2.06E-08	1.93E-08	2.11E-08	1.95E-08
4-Chloroaniline	106-47-8	< 6.26E-09	< 7.12E-09	< 7.69E-09	< 9.87E-10	< 1.12E-09	< 1.35E-09	< 7.02E-09	< 1.15E-09
Hexachlorobutadiene	87-68-3	< 1.42E-08	< 1.62E-08	< 1.75E-08	< 2.22E-09	< 2.53E-09	< 3.08E-09	< 1.60E-08	< 2.61E-09
4-Chloro-3-methylphenol	59-50-7	< 1.09E-08	< 1.24E-08	< 1.34E-08	< 1.70E-09	< 1.93E-09	< 2.34E-09	< 1.22E-08	< 1.99E-09
2-Methylnaphthalene	91-57-6	7.73E-09	5.76E-09	5.30E-09	4.58E-09	4.78E-09	3.89E-09	6.26E-09	4.42E-09
Hexachlorocyclopentadiene	77-47-4	< 1.73E-08	< 2.08E-08	< 2.16E-08	< 2.66E-09	< 3.01E-09	< 3.79E-09	< 1.99E-08	< 3.15E-09
2,4,6-Trichlorophenol	88-06-2	< 1.48E-08	< 1.78E-08	< 1.85E-08	< 2.28E-09	< 2.58E-09	< 3.25E-09	< 1.71E-08	< 2.70E-09
2,4,5-Trichlorophenol	95-95-4	< 1.45E-08	< 1.74E-08	< 1.80E-08	< 2.21E-09	< 2.51E-09	< 3.16E-09	< 1.66E-08	< 2.63E-09
2-Chloronaphthalene	91-58-7	< 4.71E-09	< 5.65E-09	< 5.87E-09	< 7.18E-10	< 8.10E-10	< 1.03E-09	< 5.41E-09	< 8.53E-10
2-Nitroaniline	88-74-4	< 2.01E-08	< 2.42E-08	< 2.51E-08	< 3.09E-09	< 3.51E-09	< 4.41E-09	< 2.31E-08	< 3.67E-09
Dimethylphthalate	131-11-3	< 4.15E-09	< 4.98E-09	< 5.17E-09	3.64E-09	1.54E-09	2.37E-09	< 4.77E-09	2.52E-09
2,6-Dinitrotoluene	606-20-2	< 1.64E-08	< 1.97E-08	< 2.05E-08	< 2.51E-09	< 2.87E-09	< 3.59E-09	< 1.89E-08	< 2.99E-09
2,4-Dinitrotoluene	121-14-2	< 1.28E-08	< 1.54E-08	< 1.60E-08	< 1.96E-09	< 2.22E-09	< 2.80E-09	< 1.47E-08	< 2.32E-09
Acenaphthylene	208-96-8	3.08E-08	2.85E-08	2.68E-08	2.17E-08	2.40E-08	1.37E-08	2.87E-08	1.98E-08
3-Nitroaniline	99-09-2	< 1.47E-08	< 1.76E-08	< 1.83E-08	< 2.24E-09	< 2.56E-09	< 3.20E-09	< 1.69E-08	< 2.67E-09
Acenaphthene	83-32-9	2.18E-09	1.68E-09	1.69E-09	1.54E-09	1.62E-09	1.01E-09	1.85E-09	1.39E-09
2,4-Dinitrophenol	105-67-9	< 4.81E-08	< 5.78E-08	< 6.00E-08	< 7.36E-09	< 8.37E-09	< 1.05E-08	< 5.53E-08	< 8.75E-09
4-Nitrophenol	100-02-7	< 3.85E-08	< 4.62E-08	< 4.80E-08	< 5.88E-09	< 6.69E-09	< 8.43E-09	< 4.42E-08	< 7.00E-09
Dibenzofuran	132-64-9	< 3.17E-09	< 3.80E-09	< 3.94E-09	< 4.84E-10	< 5.61E-10	< 6.88E-10	< 3.64E-09	< 5.78E-10
Diethylphthalate	84-66-2	1.49E-09	5.57E-09	4.14E-09	5.08E-09	8.87E-09	3.91E-09	3.73E-09	5.95E-09
4-Chlorophenyl-phenylether	70005-72-3	< 8.64E-09	< 1.04E-08	< 1.08E-08	< 1.33E-09	< 1.50E-09	< 1.89E-09	< 9.93E-09	< 1.57E-09
Fluorene	86-73-7	3.82E-09	2.84E-09	2.43E-09	1.35E-09	2.14E-09	1.16E-09	3.03E-09	1.55E-09
4-Nitroaniline	100-01-6	< 1.46E-08	< 1.76E-08	< 1.82E-08	< 2.24E-09	< 2.56E-09	< 3.20E-09	< 1.68E-08	< 2.67E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 3.73E-08	< 4.28E-08	< 4.50E-08	< 5.65E-09	< 6.11E-09	< 8.43E-09	< 4.17E-08	< 6.73E-09
4-Bromophenyl-phenylether	101-55-3	< 1.78E-08	< 2.04E-08	< 2.14E-08	< 2.69E-09	< 2.91E-09	< 4.02E-09	< 1.99E-08	< 3.21E-09
Hexachlorobenzene	118-74-1	< 1.39E-08	< 1.59E-08	< 1.67E-08	< 2.10E-09	< 2.26E-09	< 3.14E-09	< 1.55E-08	< 2.50E-09
Pentachlorophenol	87-86-5	< 3.11E-08	< 3.57E-08	< 3.75E-08	< 4.70E-09	< 5.09E-09	< 7.03E-09	< 3.48E-08	< 5.61E-09
Phenanthrene	85-01-8	2.70E-08	2.07E-08	2.23E-08	3.75E-09	5.53E-09	7.05E-09	2.33E-08	5.44E-09
Anthracene	120-12-7	< 3.82E-09	< 4.39E-09	< 4.60E-09	< 5.74E-10	< 6.23E-10	< 8.60E-10	< 4.27E-09	< 6.86E-10
Di-n-butylphthalate	84-74-2	6.53E-08	2.55E-08	2.53E-08	7.03E-09	2.01E-07	1.15E-08	3.87E-08	7.32E-08
Fluoranthene	206-44-0	3.36E-08	2.31E-08	2.58E-08	9.51E-10	1.35E-09	3.01E-09	2.75E-08	1.77E-09
Pyrene	129-00-0	1.64E-07	1.38E-07	1.36E-07	5.97E-09	7.96E-09	1.88E-08	1.46E-07	1.09E-08
Butylbenzylphthalate	85-68-7	< 5.61E-09	< 7.21E-09	< 6.24E-09	2.08E-09	1.77E-09	< 1.66E-09	< 6.35E-09	< 1.83E-09
3,3'-Dichlorobenzidine	91-94-1	< 1.10E-08	< 1.41E-08	< 1.22E-08	< 2.58E-09	< 2.58E-09	< 3.25E-09	< 1.24E-08	< 2.80E-09
bis(2-Ethylhexyl)phthalate	117-81-7	2.53E-08	1.94E-08	1.52E-08	1.50E-08	2.40E-08	1.77E-08	1.99E-08	1.89E-08

TRC

TABLE F.1-2
RETREAD BUFFING SPECIATED SEMIVOLATILES SUMMARY

Compound	CAS Numbers	Inlet Run 1	Inlet Run 2	Inlet Run 3	Outlet Run 1	Outlet Run 2	Outlet Run 3	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (lb/lb rubber)									
Benzo(a)anthracene	56-55-3	2.56E-08	1.87E-08	2.16E-08	< 8.79E-10	< 8.93E-10	2.41E-09	2.20E-08	< 1.39E-09
Chrysene	218-01-9	1.63E-08	1.10E-08	9.66E-09	< 1.00E-09	< 1.02E-09	1.29E-09	1.23E-08	< 1.10E-09
Di-n-octylphthalate	117-84-0	< 2.48E-09	< 3.49E-09	< 2.87E-09	8.25E-10	1.06E-09	1.05E-09	< 2.94E-09	9.80E-10
Benzo(b)fluoranthene	205-99-2	6.95E-09	< 5.63E-09	7.05E-09	< 1.00E-09	< 9.76E-10	< 1.16E-09	< 6.54E-09	< 1.05E-09
Benzo(k)fluoranthene	207-08-9	< 4.02E-09	< 5.67E-09	< 4.66E-09	< 1.00E-09	< 9.76E-10	< 1.16E-09	< 4.79E-09	< 1.05E-09
Benzo(a)pyrene	50-32-8	< 4.23E-09	< 5.95E-09	< 4.88E-09	< 1.06E-09	< 1.04E-09	< 1.23E-09	< 5.02E-09	< 1.11E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 4.25E-09	< 5.99E-09	< 4.91E-09	< 1.08E-09	< 1.04E-09	< 1.25E-09	< 5.05E-09	< 1.12E-09
Dibenz(a,h)anthracene	53-90-3	< 5.23E-09	< 7.37E-09	< 6.04E-09	< 1.31E-09	< 1.27E-09	< 1.53E-09	< 6.22E-09	< 1.37E-09
Benzo(g,h,i)perylene	191-24-2	2.15E-08	1.94E-08	1.90E-08	< 1.26E-09	< 1.21E-09	6.58E-09	2.00E-08	< 3.01E-09
n-Nitrosodimethylamine	62-75-9	< 2.98E-08	< 3.32E-08	< 3.34E-08	< 4.86E-09	< 5.40E-09	< 6.54E-09	< 3.22E-08	< 5.60E-09
Cumene	98-82-8	< 4.49E-09	< 4.98E-09	< 5.01E-09	1.09E-09	1.14E-09	1.38E-09	< 4.83E-09	1.20E-09
Aniline	62-53-3	7.70E-08	7.49E-08	4.79E-08	3.09E-08	2.74E-08	2.29E-08	6.66E-08	2.71E-08
Benzyl Chloride	100-44-7	< 6.07E-09	< 6.77E-09	< 6.81E-09	< 9.87E-10	< 1.10E-09	< 1.33E-09	< 6.55E-09	< 1.14E-09
Acetophenone	98-86-2	1.67E-08	2.59E-08	1.42E-08	1.22E-08	2.04E-08	2.98E-08	1.89E-08	2.08E-08
n-Nitrosomorpholine	59-89-2	< 1.88E-08	< 2.09E-08	< 2.10E-08	< 3.05E-09	< 3.41E-09	< 4.11E-09	< 2.02E-08	< 3.52E-09
o-Toluidine	95-53-4	< 7.02E-09	< 7.82E-09	< 7.84E-09	< 1.15E-09	< 1.27E-09	< 1.53E-09	< 7.56E-09	< 1.31E-09
N,N-Dimethylaniline	121-69-7	< 6.26E-09	< 7.12E-09	< 7.69E-09	< 9.87E-10	< 1.12E-09	< 1.35E-09	< 7.02E-09	< 1.15E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 1.82E-08	< 2.02E-08	< 2.03E-08	< 2.96E-09	< 3.28E-09	< 3.98E-09	< 1.96E-08	< 3.41E-09
o-Anisidine	90-04-0	< 1.20E-08	< 1.37E-08	< 1.47E-08	< 1.88E-09	< 2.14E-09	< 2.58E-09	< 1.35E-08	< 2.20E-09
1,4-Phenylenediamine	106-50-3	< 1.57E-08	< 1.79E-08	< 1.93E-08	< 2.46E-09	< 2.80E-09	< 3.40E-09	< 1.76E-08	< 2.89E-09
N,N-Diethylaniline	91-66-7	< 4.73E-09	< 5.25E-09	< 5.30E-09	< 7.71E-10	< 8.52E-10	< 1.03E-09	< 5.09E-09	< 8.85E-10
a,a,a-Trichlorotoluene	98-07-7	< 8.33E-09	< 9.48E-09	< 1.02E-08	< 1.29E-09	< 1.48E-09	< 1.79E-09	< 9.34E-09	< 1.52E-09
Hydroquinone	123-31-9	< 1.26E-08	< 1.44E-08	< 1.55E-08	< 1.97E-09	< 2.24E-09	< 2.73E-09	< 1.41E-08	< 2.32E-09
2-Chloroacetophenone	1341-24-8	< 4.92E-09	< 5.59E-09	< 6.02E-09	< 7.71E-10	< 8.73E-10	< 1.05E-09	< 5.51E-09	< 8.99E-10
Biphenyl	92-52-4	7.64E-09	6.62E-09	5.63E-09	4.84E-09	6.00E-09	3.89E-09	6.63E-09	4.91E-09
Trifluralin	1582-09-8	< 2.35E-08	< 2.82E-08	< 2.93E-08	< 3.61E-09	< 4.09E-09	< 5.14E-09	< 2.70E-08	< 4.28E-09
4-Aminobiphenyl	92-67-1	< 6.33E-09	< 7.27E-09	< 7.62E-09	< 9.51E-10	< 1.04E-09	< 1.44E-09	< 7.07E-09	< 1.14E-09
Pentachloronitrobenzene	82-68-8	< 4.51E-08	< 5.18E-08	< 5.44E-08	< 6.84E-09	< 7.40E-09	< 1.02E-08	< 5.04E-08	< 8.14E-09
4-Nitrobiphenyl	92-93-3	< 1.55E-08	< 1.77E-08	< 1.86E-08	< 2.33E-09	< 2.53E-09	< 3.48E-09	< 1.73E-08	< 2.78E-09
Benzidine	92-87-5	< 6.31E-09	< 8.11E-09	< 7.01E-09	< 1.49E-09	< 1.48E-09	< 1.87E-09	< 7.14E-09	< 1.61E-09
4,4'-Methylenedianiline	101-77-9	< 1.09E-08	< 1.40E-08	< 1.21E-08	< 2.57E-09	< 2.56E-09	< 3.23E-09	< 1.23E-08	< 2.78E-09
Dimethylaminoazobenzene	60-11-7	< 1.07E-08	< 1.38E-08	< 1.19E-08	< 2.51E-09	< 2.51E-09	< 3.16E-09	< 1.21E-08	< 2.73E-09
3,3'-Dimethylbenzidine	119-93-7	< 5.77E-09	< 7.44E-09	< 6.44E-09	< 1.36E-09	< 1.35E-09	< 1.70E-09	< 6.55E-09	< 1.47E-09
3,3'-Dimethoxybenzidine	119-90-4	< 1.30E-08	< 1.67E-08	< 1.45E-08	< 3.05E-09	< 3.05E-09	< 3.83E-09	< 1.47E-08	< 3.31E-09
Methylene bis-chloroaniline	101-14-4	< 2.22E-08	< 2.86E-08	< 2.47E-08	< 5.22E-09	< 5.21E-09	< 6.56E-09	< 2.52E-08	< 5.67E-09
3-Furaldehyde	498-60-2	< 2.22E-08	< 2.48E-08	< 2.49E-08	< 3.62E-09	< 4.03E-09	< 4.88E-09	< 2.40E-08	< 4.18E-09
2-Furaldehyde	98-01-1	1.11E-08	2.30E-08	1.76E-08	6.93E-09	7.67E-09	7.61E-09	1.72E-08	7.40E-09
Cyclohexylamine	108-91-8	< 6.95E-08	< 7.74E-08	< 7.78E-08	< 1.13E-08	< 1.26E-08	< 1.52E-08	< 7.49E-08	< 1.30E-08
N-Nitrosodiethylamine	55-18-5	< 2.12E-08	< 2.36E-08	< 2.37E-08	< 3.44E-09	< 3.84E-09	< 4.65E-09	< 2.29E-08	< 3.98E-09
Cyclohexanone	108-94-1	< 1.32E-08	2.58E-08	7.10E-09	1.13E-08	3.20E-08	8.75E-08	< 1.54E-08	4.36E-08
1,3-Cyclooctadiene	1700-10-3	< 1.21E-08	< 1.35E-08	< 1.36E-08	< 1.97E-09	< 2.20E-09	< 2.65E-09	< 1.31E-08	< 2.27E-09
1,5-Cyclooctadiene	111-78-4	< 2.63E-08	< 2.92E-08	< 2.94E-08	< 4.27E-09	< 4.76E-09	< 5.76E-09	< 2.83E-08	< 4.93E-09
Camphene	79-92-5	< 1.31E-08	< 1.46E-08	< 1.47E-08	< 2.14E-09	< 2.37E-09	< 2.88E-09	< 1.41E-08	< 2.46E-09
Benzaldehyde	100-52-7	1.23E-07	1.11E-07	9.50E-08	1.07E-07	8.24E-08	9.14E-08	1.10E-07	9.37E-08
Benzonitrile	100-47-0	< 4.54E-09	< 5.06E-09	< 5.08E-09	< 7.36E-10	< 8.31E-10	< 9.89E-10	< 4.90E-09	< 8.52E-10
Isooctanol	26952-21-6	< 1.21E-07	< 1.35E-07	< 1.36E-07	< 1.98E-08	< 2.20E-08	< 2.66E-08	< 1.31E-07	< 2.28E-08
1,2,4-Trimethylbenzene	95-63-6	2.79E-09	2.84E-09	2.74E-09	2.51E-09	3.10E-09	3.27E-09	2.79E-09	2.96E-09
3-Methylstyrene	100-80-1	< 6.43E-09	< 7.14E-09	< 7.18E-09	< 1.04E-09	< 1.16E-09	< 1.40E-09	< 6.92E-09	< 1.20E-09
4-Methylstyrene	622-97-9	< 7.06E-09	< 7.86E-09	< 7.91E-09	< 1.15E-09	< 1.29E-09	< 1.55E-09	< 7.61E-09	< 1.33E-09
4-Chlorostyrene	1073-67-2	< 7.79E-09	< 8.66E-09	< 8.72E-09	< 1.27E-09	< 1.41E-09	< 1.70E-09	< 8.39E-09	< 1.46E-09
1-Dodecene	112-41-4	< 4.56E-08	< 5.19E-08	< 5.60E-08	< 7.12E-09	< 8.12E-09	< 9.85E-09	< 5.12E-08	< 8.37E-09
Phthalimide	85-41-6	< 2.50E-08	< 3.00E-08	< 3.11E-08	< 3.82E-09	< 4.34E-09	< 5.46E-09	< 2.87E-08	< 4.54E-09
Diphenylamine	122-39-4	3.99E-08	3.98E-08	2.23E-08	5.47E-09	7.98E-09	9.36E-09	3.40E-08	7.60E-09
Total Detected		1.48E-06	1.26E-06	8.20E-07	3.23E-07	5.86E-07	4.95E-07	1.19E-06	4.68E-07
Total with non-detects		< 2.74E-06	< 2.71E-06	< 2.31E-06	< 5.30E-07	< 8.11E-07	< 7.74E-07	< 2.59E-06	< 7.05E-07

TRC

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
Speciated Vol. (µg/m³)										
1 2	1-Butanol	00071-36-3						60	0	20
	1-Heptene	00592-76-7	7,585	4,551	7,585	210	1,750	< 1	5640	< 1587
	1-Hexene	00592-41-6	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	1-Octene	00111-60-0	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	1-Pentene	00109-67-1	< 3	< 1	6	< 1	158	105	< 56	< 36
1	1,1-Dichloroethane	00075-34-3	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	1,1-Dichloroethene	00075-35-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1 2	1,1-Difluoroethane	00075-34-3				200			0	67
1	1,1,1-Trichloroethane	00071-55-6	24	54	5	230	< 8	< 8	< 12	< 97
1	1,1,2-Trichloroethane	00079-00-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
1	1,2-Dibromoethane	00106-93-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	1,2-Dichlorobenzene	00095-50-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	1,2-Dichloroethane	00107-06-2	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	1,2-Dichloropropane	00078-87-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
	1,2,4-Trimethylbenzene	00095-63-6	55	< 6	38	< 6	< 56	< 6	< 49	< 6
	1,3-Butadiene	00106-99-0	29	23	29	32	< 11	< 1	< 23	< 19
1	1,3-Dichlorobenzene	00541-73-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
	1,3,5-Trimethylbenzene	00108-67-8	61	< 6	< 6	< 6	< 56	< 6	< 41	< 6
1	1,4-Dichlorobenzene	00106-46-7	< 8	< 8	3	< 8	4	< 8	< 5	< 8
	1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	< 14	< 6	< 6	< 6	< 56	< 6	< 25	< 6
1	1,4-Dioxane	00123-91-1	< 32	< 32	< 32	< 32	< 32	< 32	< 32	< 32
1	2-Butanone	00078-93-3	8	9	7	21	6	< 16	7	< 15
1	2-Hexanone	00591-78-6	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
	2-Methyl-1-butene	00563-46-2	< 3	16	10	32	< 12	< 1	< 8	< 16
	2-Methyl-2-butene	00513-35-9	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	2-Methyl-2-pentene	00625-27-4	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	2-Methylheptane	00592-27-8	160	26	190	< 1	< 12	< 1	< 121	< 10
	2-Methylhexane	00591-76-4	29,177	16,673	26,200	715	6,550	< 1	20642	< 5796
	2-Methylpentane	00107-83-5	< 3	47	< 1	102	< 12	< 1	< 5	< 50
	2,2-Dimethylbutane	00075-83-2	< 3	8	< 1	23	< 12	< 1	< 5	< 11
	2,2-Dimethylpropane	00463-82-1	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1

TRC

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (µg/m³)									
	2,3-Dimethylpentane	00565-59-3	< 3	5,716	< 1	250	< 12	< 1	< 5	< 1989
	2,3,4-Trimethylpentane	00565-75-3	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	2,4-Dimethylhexane	00589-43-5	4,573	713	3,861	23	891	< 1	3108	< 246
	3-Methylhexane	00589-34-4	< 3	23,818	95,273	1,072	30,368	< 1	< 41881	< 8297
	3-Methylpentane	00096-14-0	< 3	66	< 1	143	< 12	< 1	< 5	< 70
	4-Methyl-1-pentene	00691-37-2	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
1	4-Methyl-2-Pentanone	00108-10-1	390	86	380	18	430	41	400	48
1	Acetone	00067-64-1	100	< 16	86	160	92	55	93	< 77
1	Acetonitrile	01722-09-4	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
	Acetylene	00074-86-2	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
1	Acrolein	00107-02-8	320	44	210	< 16	150	< 16	227	< 25
1	Acrylonitrile	00107-13-1	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
1	Allyl Chloride	00107-05-1	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
	a-Pinene	07785-70-8	< 3	28	< 1	< 1	< 11	< 1	< 5	< 10
	Benzene	00071-43-2	6,499	< 1	6,499	17	1,408	< 1	4802	< 6
1	Benzyl Chloride	00100-44-7	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
	b-Pinene	18172-67-3	< 14	< 6	< 6	< 6	< 57	< 6	< 26	< 6
1	Bromodichloromethane	00075-27-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	Bromoform	00075-25-2	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	Bromomethane	00074-83-9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1 2	C7H16Branched Alkane		4,200	4,900	5,300	100	2,900		4133	< 1667
1	Carbon Disulfide	00075-15-0	380	62	320	27	270	6	323	32
1	Carbon Tetrachloride	00056-23-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	Chlorobenzene	00108-90-7	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	Chlorodibromomethane	00124-48-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	Chloroethane	00075-00-3	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	Chloroform	00067-66-3	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	Chloromethane	00074-87-3	2	< 8	< 8	2	< 8	< 8	< 6	< 6
1	cis-1,2-Dichloroethene	00156-59-2	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	cis-1,3-Dichloropropene	10061-01-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
	cis-2-Butene	00590-18-1	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	cis-2-Hexene	07688-21-3	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	cis-2-Pentene	00627-20-3	56	82	50	169	105	15	70	89

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (µg/m³)									
	Cumene	00098-82-8	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
1 2	Cyclobutane	00287-23-0	60		90				< 50	< 0
	Cyclohexane	00110-82-7	87,522	233	81,687	41	21,005	< 1	63405	< 92
	Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	62	23	85	59	< 13	< 1	< 53	< 28
	Cyclopentene	00142-29-0	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
1	Dichlorodifluoromethane	00075-71-8	95	21	< 8	6	< 8	< 8	< 37	< 12
1 2	Dimethylcyclopentane			1,900			1,700		567	633
	d-Limonene	05989-27-5	< 14	< 6	< 6	< 6	< 57	< 6	< 26	< 6
1	Epichlorohydrin	00106-89-8	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
	Ethane	00074-84-0	30	< 1	33	< 1	< 13	< 1	< 25	< 1
	Ethylacetylene	00107-00-6	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
	Ethylbenzene	00100-41-4	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
1 2	Ethylcyclopentane	01640-89-7	1,000		2,000				< 1000	< 0
	Ethylene	00074-85-1	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
1 2	Ethylpentane						2,000		667	0
1 2	Heptane	00142-82-5		3,000		500	4,000	30	1333	1177
1	Hexachlorobutadiene	00087-68-3	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
	Isobutane	00075-28-5	< 3	338	< 1	1,148	< 12	< 1	< 5	< 496
	Isobutylene + 1-Butene	00115-11-7/00106-98-9	64	9	56	6	< 12	< 1	< 44	< 6
	Isooctane	00540-84-1	< 3	1,604	< 1	83	< 12	< 1	< 5	< 563
	Isopentane	00078-78-4	< 3	1,020	< 1	2,941	228	84	< 77	1349
	Isoprene	00078-79-5	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
1 2	Isopropyl alcohol	00067-63-0						200	0	67
1 2	Matrix of C7-C8 Cyclic & alphatic HC'		30,000		40,000				23333	0
	Methylacetylene	00074-99-7	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
	Methylcyclohexane	00108-87-2	40,260	7,585	39,676	321	9,336	< 1	29757	< 2636
	Methylcyclopentane	00096-37-7	2,684	560	2,742	210	642	< 1	2023	< 257
1	Methylene Chloride	00075-09-2	95	150	68	300	77	20	80	157
1 2	Methylhexane			6,000		700	7,000		2333	2233
1 2	Methylhexanone		300		400		600	100	433	33
1 2	Methylpentane								0	0
	m-Ethyltoluene	00620-14-4	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
	m-Xylene + p-Xylene	00108-38-3/00106-42-3	38	21	34	48	< 11	< 1	< 28	< 23
	n-Butane	00106-97-8	< 3	27	< 1	41	< 12	< 1	< 5	< 23

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (µg/m³)									
	n-Decane	00124-18-5	< 15	< 6	< 6	< 6	< 59	< 6	< 27	< 6
	n-Heptane	00142-82-5	119,091	22,032	89,318	953	27,986	< 1	78799	< 7662
	n-Hexane	00110-54-3	< 3	171	< 1	273	< 12	37	< 5	161
	n-Nonane	00111-84-2	< 3	7	< 1	12	< 12	< 1	< 5	< 7
	n-Octane	00111-65-9	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	n-Pentane	00109-66-0	< 3	156	< 1	444	< 12	< 1	< 5	< 200
	n-Propylbenzene	00103-65-1	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
	o-Ethyltoluene	00611-14-3	< 14	< 6	< 6	< 6	< 56	< 6	< 25	< 6
	o-Xylene	00095-47-6	32	6	23	17	< 11	< 1	< 22	< 8
	p-Cymene	00099-87-6	< 14	< 6	< 6	< 6	< 56	< 6	< 25	< 6
1	*2* Pentane					300			0	100
	p-Ethyltoluene	00622-96-8	< 3	< 1	< 1	< 1	< 11	< 1	< 5	< 1
	Propane	00074-98-6	92	21	86	110	122	< 1	100	< 44
	Propylene	00115-07-1	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
1	Propylene Oxide	00075-56-9	< 16	< 16	< 16	< 16	< 16	87	< 16	< 40
	Styrene	00100-42-5	49	< 1	87	< 1	< 11	< 1	< 49	< 1
1	t-Butyl Methyl Ether	01634-04-4	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16
1	Tetrachloroethene	00127-18-4	3	28	< 8	89	< 8	< 8	< 6	< 42
	Toluene	00108-88-3	252	131	296	219	< 11	15	< 186	122
1	trans-1,2-Dichloroethene	00156-60-5	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	trans-1,2-Dichloropropene	10061-02-6	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
	trans-2-Butene	00624-64-6	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	trans-2-Hexene	04050-45-7	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
	trans-2-Pentene	00646-04-8	< 3	< 1	< 1	< 1	< 12	< 1	< 5	< 1
1	Trichloroethene	00079-01-6	< 8	< 8	< 8	8	< 8	< 8	< 8	< 8
1	Trichlorofluoromethane	00075-69-4	< 8	< 8	< 8	8	< 8	< 8	< 8	< 8
1	Trichlortrifluoroethane	00076-13-1	< 8	< 8	< 8	9	< 8	< 8	< 8	< 8
1	Vinyl Acetate	00108-05-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1	Vinyl Chloride	00075-01-4	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
	Total Detected		335,349	101,967	402,731	12,394	119,779	855	285,953	38,405
	Total with non-detects		< 335,950	< 102,469	< 403,230	< 12,865	< 121,187	< 1,411	< 286,789	< 38,915

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
Speciated Vol. (lb/hr)									
1 2 1-Butanol	00071-36-3						3.19E-05	0.00E+00	1.06E-05
1-Heptene	00592-76-7	3.91E-03	2.55E-03	3.79E-03	1.17E-04	8.52E-04	< 6.20E-07	2.85E-03	< 8.88E-04
1-Hexene	00592-41-6	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
1-Octene	00111-60-0	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
1-Pentene	00109-67-1	< 1.50E-06	< 6.53E-07	3.20E-06	< 6.49E-07	7.67E-05	5.58E-05	< 2.71E-05	< 1.90E-05
1 1,1-Dichloroethane	00075-34-3	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1 1,1-Dichloroethene	00075-35-4	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1 2 1,1-Difluoroethane	00075-34-3				1.11E-04			0.00E+00	3.71E-05
1 1,1,1-Trichloroethane	00071-55-6	1.24E-05	3.02E-05	2.25E-06	1.28E-04	< 3.89E-06	< 4.25E-06	< 6.17E-06	< 5.41E-05
1 1,1,2-Trichloroethane	00079-00-5	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1 1,1,2,2-Tetrachloroethane	00079-34-5	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1 1,2-Dibromo-3-Chloropropane	00096-12-8	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	< 8.50E-06	< 8.01E-06	< 8.78E-06
1 1,2-Dibromoethane	00106-93-4	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1 1,2-Dichlorobenzene	00095-50-1	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1 1,2-Dichloroethane	00107-06-2	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1 1,2-Dichloropropane	00078-87-5	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1,2,4-Trimethylbenzene	00095-63-6	2.84E-05	< 3.11E-06	1.89E-05	< 3.09E-06	< 2.70E-05	< 2.95E-06	< 2.47E-05	< 3.05E-06
1,3-Butadiene	00106-99-0	1.51E-05	1.29E-05	1.43E-05	1.78E-05	< 5.47E-06	< 5.97E-07	< 1.16E-05	< 1.04E-05
1 1,3-Dichlorobenzene	00541-73-1	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1,3,5-Trimethylbenzene	00108-67-8	3.15E-05	< 3.11E-06	< 2.77E-06	< 3.09E-06	< 2.70E-05	< 2.95E-06	< 2.04E-05	< 3.05E-06
1 1,4-Dichlorobenzene	00106-46-7	< 4.12E-06	< 4.48E-06	1.25E-06	< 4.45E-06	1.80E-06	< 4.25E-06	< 2.39E-06	< 4.39E-06
1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	< 7.20E-06	< 3.12E-06	< 2.79E-06	< 3.11E-06	< 2.72E-05	< 2.96E-06	< 1.24E-05	< 3.06E-06
1 1,4-Dioxane	00123-91-1	< 1.65E-05	< 1.79E-05	< 1.60E-05	< 1.78E-05	< 1.56E-05	< 1.70E-05	< 1.60E-05	< 1.76E-05
1 2-Butanone	00078-93-3	4.12E-06	4.87E-06	3.59E-06	1.17E-05	3.11E-06	< 8.50E-06	3.61E-06	< 8.35E-06
1 2-Hexanone	00591-78-6	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
2-Methyl-1-butene	00563-46-2	< 1.50E-06	8.81E-06	4.95E-06	1.79E-05	< 5.68E-06	< 6.20E-07	< 4.04E-06	< 9.10E-06
2-Methyl-2-butene	00513-35-9	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
2-Methyl-2-pentene	00625-27-4	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
2-Methylheptane	00592-27-8	8.27E-05	1.46E-05	9.48E-05	< 6.61E-07	< 5.78E-06	< 6.31E-07	< 6.11E-05	< 5.30E-06
2-Methylhexane	00591-76-4	1.50E-02	9.33E-03	1.31E-02	3.98E-04	3.19E-03	< 6.32E-07	1.04E-02	< 3.24E-03
2-Methylpentane	00107-83-5	< 1.54E-06	2.64E-05	< 5.96E-07	5.65E-05	< 5.81E-06	< 6.34E-07	< 2.65E-06	< 2.78E-05
2,2-Dimethylbutane	00075-83-2	< 1.54E-06	4.68E-06	< 5.96E-07	1.30E-05	< 5.81E-06	< 6.34E-07	< 2.65E-06	< 6.09E-06
2,2-Dimethylpropane	00463-82-1	< 1.55E-06	< 6.72E-07	< 5.99E-07	< 6.68E-07	< 5.84E-06	< 6.37E-07	< 2.66E-06	< 6.59E-07

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3

RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (lb/hr)									
	2,3-Dimethylpentane	00565-59-3	< 1.53E-06	3.20E-03	< 5.94E-07	1.39E-04	< 5.80E-06	< 6.32E-07	< 2.64E-06	< 1.11E-03
	2,3,4-Trimethylpentane	00565-75-3	< 1.53E-06	< 6.65E-07	< 5.93E-07	< 6.61E-07	< 5.78E-06	< 6.31E-07	< 2.63E-06	< 6.52E-07
	2,4-Dimethylhexane	00589-43-5	2.36E-03	3.99E-04	1.93E-03	1.29E-05	4.34E-04	< 6.31E-07	1.57E-03	< 1.37E-04
	3-Methylhexane	00589-34-4	< 1.53E-06	1.33E-02	4.75E-02	5.96E-04	1.48E-02	< 6.32E-07	< 2.08E-02	< 4.64E-03
	3-Methylpentane	00096-14-0	< 1.54E-06	3.68E-05	< 5.96E-07	7.98E-05	< 5.81E-06	< 6.34E-07	< 2.65E-06	< 3.91E-05
	4-Methyl-1-pentene	00691-37-2	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
1	4-Methyl-2-Pentanone	00108-10-1	2.01E-04	4.81E-05	1.90E-04	1.00E-05	2.09E-04	2.18E-05	2.00E-04	2.66E-05
1	Acetone	00067-64-1	5.16E-05	< 8.95E-06	4.29E-05	8.90E-05	4.48E-05	2.92E-05	4.64E-05	< 4.24E-05
1	Acetonitrile	01722-09-4	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	< 8.50E-06	< 8.01E-06	< 8.78E-06
	Acetylene	00074-86-2	< 1.40E-06	< 6.06E-07	< 5.41E-07	< 6.03E-07	< 5.27E-06	< 5.75E-07	< 2.40E-06	< 5.95E-07
1	Acrolein	00107-02-8	1.65E-04	2.46E-05	1.05E-04	< 8.90E-06	7.30E-05	< 8.50E-06	1.14E-04	< 1.40E-05
1	Acrylonitrile	00107-13-1	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	< 8.50E-06	< 8.01E-06	< 8.78E-06
1	Allyl Chloride	00107-05-1	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	< 8.50E-06	< 8.01E-06	< 8.78E-06
	a-Pinene	07785-70-8	< 1.46E-06	1.55E-05	< 5.66E-07	< 6.31E-07	< 5.52E-06	< 6.02E-07	< 2.51E-06	< 5.59E-06
	Benzene	00071-43-2	3.35E-03	< 6.06E-07	3.24E-03	9.64E-06	6.85E-04	< 5.75E-07	2.43E-03	< 3.61E-06
1	Benzyl Chloride	00100-44-7	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	< 8.50E-06	< 8.01E-06	< 8.78E-06
	b-Pinene	18172-67-3	< 7.30E-06	< 3.17E-06	< 2.83E-06	< 3.15E-06	< 2.76E-05	< 3.01E-06	< 1.26E-05	< 3.11E-06
1	Bromodichloromethane	00075-27-4	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	Bromoform	00075-25-2	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	Bromomethane	00074-83-9	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1 2	C7H16Branched Alkans		2.17E-03	2.74E-03	2.64E-03	5.56E-05	1.41E-03		2.07E-03	9.32E-04
1	Carbon Disulfide	00075-15-0	1.96E-04	3.47E-05	1.60E-04	1.50E-05	1.31E-04	2.97E-06	1.62E-04	1.76E-05
1	Carbon Tetrachloride	00056-23-5	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	Chlorobenzene	00108-90-7	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	Chlorodibromomethane	00124-48-1	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	Chloroethane	00075-00-3	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	Chloroform	00067-66-3	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	Chloromethane	00074-87-3	1.03E-06	< 4.48E-06	< 3.99E-06	1.06E-06	< 3.89E-06	< 4.25E-06	< 2.97E-06	< 3.26E-06
1	cis-1,2-Dichloroethene	00156-59-2	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	cis-1,3-Dichloropropene	10061-01-5	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
	cis-2-Butene	00590-18-1	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
	cis-2-Hexene	07688-21-3	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
	cis-2-Pentene	00627-20-3	2.89E-05	4.57E-05	2.47E-05	9.41E-05	5.11E-05	8.06E-06	3.49E-05	4.93E-05

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (lb/hr)									
	Cumene	00098-82-8	< 1.43E-06	< 6.22E-07	< 5.54E-07	< 6.18E-07	< 5.41E-06	< 5.90E-07	< 2.46E-06	< 6.10E-07
1 2	Cyclobutane	00287-23-0	3.09E-05		4.49E-05				2.53E-05	0.00E+00
	Cyclohexane	00110-82-7	4.51E-02	1.31E-04	4.08E-02	2.30E-05	1.02E-02	< 6.20E-07	3.20E-02	< 5.14E-05
	Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	3.18E-05	1.31E-05	4.22E-05	3.26E-05	< 6.33E-06	< 6.91E-07	< 2.68E-05	< 1.54E-05
	Cyclopentene	00142-29-0	< 1.46E-06	< 6.34E-07	< 5.66E-07	< 6.31E-07	< 5.52E-06	< 6.02E-07	< 2.51E-06	< 6.22E-07
1	Dichlorodifluoromethane	00075-71-8	4.90E-05	1.17E-05	< 3.99E-06	3.45E-06	< 3.89E-06	< 4.25E-06	< 1.90E-05	< 6.48E-06
1 2	Dimethylcyclopentane			1.06E-03			8.27E-04		2.76E-04	3.54E-04
	d-Limonene	05989-27-5	< 7.30E-06	< 3.17E-06	< 2.83E-06	< 3.15E-06	< 2.76E-05	< 3.01E-06	< 1.26E-05	< 3.11E-06
1	Epichlorohydrin	00106-89-8	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	< 8.50E-06	< 8.01E-06	< 8.78E-06
	Ethane	00074-84-0	1.55E-05	< 7.00E-07	1.65E-05	< 6.96E-07	< 6.09E-06	< 6.64E-07	< 1.27E-05	< 6.87E-07
	Ethylacetylene	00107-00-6	< 1.45E-06	< 6.29E-07	< 5.61E-07	< 6.26E-07	< 5.47E-06	< 5.97E-07	< 2.50E-06	< 6.18E-07
	Ethylbenzene	00100-41-4	< 1.42E-06	< 6.18E-07	< 5.51E-07	< 6.14E-07	< 5.37E-06	< 5.86E-07	< 2.45E-06	< 6.06E-07
1 2	Ethylcyclopentane	01640-89-7	5.16E-04		9.98E-04				5.05E-04	0.00E+00
	Ethylene	00074-85-1	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
1 2	Ethylpentane						9.73E-04		3.24E-04	0.00E+00
1 2	Heptane	00142-82-5		1.68E-03		2.78E-04	1.95E-03	1.59E-05	6.49E-04	6.57E-04
1	Hexachlorobutadiene	00087-68-3	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	< 8.50E-06	< 8.01E-06	< 8.78E-06
	Isobutane	00075-28-5	< 1.56E-06	1.89E-04	< 6.03E-07	6.39E-04	< 5.88E-06	< 6.42E-07	< 2.68E-06	< 2.76E-04
	Isobutylene + 1-Butene	00115-11-7/00106-98-9	3.31E-05	5.22E-06	2.80E-05	3.57E-06	< 5.68E-06	< 6.20E-07	< 2.22E-05	< 3.14E-06
	Isooctane	00540-84-1	< 1.53E-06	8.97E-04	< 5.93E-07	4.63E-05	< 5.78E-06	< 6.31E-07	< 2.63E-06	< 3.15E-04
	Isopentane	00078-78-4	< 1.55E-06	5.71E-04	< 5.99E-07	1.64E-03	1.11E-04	4.46E-05	< 3.77E-05	7.51E-04
	Isoprene	00078-79-5	< 1.46E-06	< 6.34E-07	< 5.66E-07	< 6.31E-07	< 5.52E-06	< 6.02E-07	< 2.51E-06	< 6.22E-07
1 2	Isopropyl alcohol	00067-63-0						1.06E-04	0.00E+00	3.54E-05
1 2	Matrix of C7-C8 Cyclic & alphatic HC'		1.55E-02		2.00E-02				1.18E-02	0.00E+00
	Methylacetylene	00074-99-7	< 1.40E-06	< 6.06E-07	< 5.41E-07	< 6.03E-07	< 5.27E-06	< 5.75E-07	< 2.40E-06	< 5.95E-07
	Methylcyclohexane	00108-87-2	2.08E-02	4.24E-03	1.98E-02	1.79E-04	4.54E-03	< 6.20E-07	1.50E-02	< 1.47E-03
	Methylcyclopentane	00096-37-7	1.38E-03	3.13E-04	1.37E-03	1.17E-04	3.12E-04	< 6.20E-07	1.02E-03	< 1.44E-04
1	Methylene Chloride	00075-09-2	4.90E-05	8.39E-05	3.39E-05	1.67E-04	3.75E-05	1.06E-05	4.01E-05	8.71E-05
1 2	Methylhexane			3.36E-03		3.89E-04	3.41E-03		1.14E-03	1.25E-03
1 2	Methylhexanone		1.55E-04		2.00E-04		2.92E-04	5.31E-05	2.15E-04	1.77E-05
1 2	Methylpentane								0.00E+00	0.00E+00
	m-Ethyltoluene	00620-14-4	< 1.43E-06	< 6.22E-07	< 5.54E-07	< 6.18E-07	< 5.41E-06	< 5.90E-07	< 2.46E-06	< 6.10E-07
	m-Xylene + p-Xylene	00108-38-3/00106-42-3	1.96E-05	1.17E-05	1.71E-05	2.67E-05	< 5.37E-06	< 5.86E-07	< 1.40E-05	< 1.30E-05
	n-Butane	00106-97-8	< 1.56E-06	1.49E-05	< 6.03E-07	2.29E-05	< 5.88E-06	< 6.42E-07	< 2.68E-06	< 1.28E-05

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3

RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (lb/hr)									
	n-Decane	00124-18-5	< 7.63E-06	< 3.31E-06	< 2.95E-06	< 3.29E-06	< 2.88E-05	< 3.14E-06	< 1.31E-05	< 3.25E-06
	n-Heptane	00142-82-5	6.14E-02	1.23E-02	4.46E-02	5.30E-04	1.36E-02	< 6.32E-07	3.99E-02	< 4.29E-03
	n-Hexane	00110-54-3	< 1.54E-06	9.59E-05	< 5.96E-07	1.52E-04	< 5.81E-06	1.97E-05	< 2.65E-06	8.92E-05
	n-Nonane	00111-84-2	< 1.53E-06	3.98E-06	< 5.92E-07	6.93E-06	< 5.77E-06	< 6.30E-07	< 2.63E-06	< 3.84E-06
	n-Octane	00111-65-9	< 1.53E-06	< 6.65E-07	< 5.93E-07	< 6.61E-07	< 5.78E-06	< 6.31E-07	< 2.63E-06	< 6.52E-07
	n-Pentane	00109-66-0	< 1.55E-06	8.73E-05	< 5.99E-07	2.47E-04	< 5.84E-06	< 6.37E-07	< 2.66E-06	< 1.12E-04
	n-Propylbenzene	00103-65-1	< 1.43E-06	< 6.22E-07	< 5.54E-07	< 6.18E-07	< 5.41E-06	< 5.90E-07	< 2.46E-06	< 6.10E-07
	o-Ethyltoluene	00611-14-3	< 7.16E-06	< 3.11E-06	< 2.77E-06	< 3.09E-06	< 2.70E-05	< 2.95E-06	< 1.23E-05	< 3.05E-06
	o-Xylene	00095-47-6	1.65E-05	3.09E-06	1.16E-05	9.52E-06	< 5.37E-06	< 5.86E-07	< 1.11E-05	< 4.40E-06
	p-Cymene	00099-87-6	< 7.20E-06	< 3.12E-06	< 2.79E-06	< 3.11E-06	< 2.72E-05	< 2.96E-06	< 1.24E-05	< 3.06E-06
1 2	Pentane					1.67E-04			0.00E+00	5.56E-05
	p-Ethyltoluene	00622-96-8	< 1.43E-06	< 6.22E-07	< 5.54E-07	< 6.18E-07	< 5.41E-06	< 5.90E-07	< 2.46E-06	< 6.10E-07
	Propane	00074-98-6	4.73E-05	1.16E-05	4.27E-05	6.12E-05	5.95E-05	< 6.49E-07	4.98E-05	< 2.45E-05
	Propylene	00115-07-1	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
1	Propylene Oxide	00075-56-9	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	4.62E-05	< 8.01E-06	< 2.13E-05
	Styrene	00100-42-5	2.54E-05	< 6.06E-07	4.32E-05	< 6.03E-07	< 5.27E-06	< 5.75E-07	< 2.46E-05	< 5.95E-07
1	t-Butyl Methyl Ether	01634-04-4	< 8.25E-06	< 8.95E-06	< 7.98E-06	< 8.90E-06	< 7.79E-06	< 8.50E-06	< 8.01E-06	< 8.78E-06
1	Tetrachloroethene	00127-18-4	1.39E-06	1.57E-05	< 3.99E-06	4.95E-05	< 3.89E-06	< 4.25E-06	< 3.09E-06	< 2.31E-05
	Toluene	00108-88-3	1.30E-04	7.35E-05	1.48E-04	1.22E-04	< 5.33E-06	7.85E-06	< 9.42E-05	6.77E-05
1	trans-1,2-Dichloroethene	00156-60-5	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	trans-1,2-Dichloropropene	10061-02-6	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
	trans-2-Butene	00624-64-6	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
	trans-2-Hexene	04050-45-7	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
	trans-2-Pentene	00646-04-8	< 1.50E-06	< 6.53E-07	< 5.82E-07	< 6.49E-07	< 5.68E-06	< 6.20E-07	< 2.59E-06	< 6.41E-07
1	Trichloroethene	00079-01-6	< 4.12E-06	< 4.48E-06	< 3.99E-06	4.17E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.30E-06
1	Trichlorofluoromethane	00075-69-4	< 4.12E-06	< 4.48E-06	< 3.99E-06	4.34E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.35E-06
1	Trichlortrifluoroethane	00076-13-1	< 4.12E-06	< 4.48E-06	< 3.99E-06	4.95E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.56E-06
1	Vinyl Acetate	00108-05-4	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
1	Vinyl Chloride	00075-01-4	< 4.12E-06	< 4.48E-06	< 3.99E-06	< 4.45E-06	< 3.89E-06	< 4.25E-06	< 4.00E-06	< 4.39E-06
	Total Detected		1.73E-01	5.70E-02	2.01E-01	6.90E-03	5.83E-02	4.54E-04	1.44E-01	2.15E-02
	Total with non-detects		< 1.73E-01	< 5.73E-02	< 2.01E-01	< 7.16E-03	< 5.90E-02	< 7.49E-04	< 1.44E-01	< 2.17E-02

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (lb/lb rubber processed)									
1 2	1-Butanol	00071-36-3						2.40E-09	0.00E+00	8.00E-10
	1-Heptene	00592-76-7	2.48E-07	1.61E-07	2.73E-07	8.44E-09	6.41E-08	< 4.67E-11	1.95E-07	< 5.66E-08
	1-Hexene	00592-41-6	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
	1-Octene	00111-60-0	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
	1-Pentene	00109-67-1	< 9.53E-11	< 4.14E-11	2.31E-10	< 4.69E-11	5.77E-09	4.20E-09	< 2.03E-09	< 1.43E-09
1	1,1-Dichloroethane	00075-34-3	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	1,1-Dichloroethene	00075-35-4	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1 2	1,1-Difluoroethane	00075-34-3				8.03E-09			0.00E+00	2.68E-09
1	1,1,1-Trichloroethane	00071-55-6	7.84E-10	1.91E-09	1.62E-10	9.24E-09	< 2.93E-10	< 3.20E-10	< 4.13E-10	< 3.82E-09
1	1,1,2-Trichloroethane	00079-00-5	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	< 6.40E-10	< 5.62E-10	< 6.16E-10
1	1,2-Dibromoethane	00106-93-4	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	1,2-Dichlorobenzene	00095-50-1	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	1,2-Dichloroethane	00107-06-2	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	1,2-Dichloropropane	00078-87-5	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
	1,2,4-Trimethylbenzene	00095-63-6	1.80E-09	< 1.97E-10	1.36E-09	< 2.23E-10	< 2.04E-09	< 2.22E-10	< 1.73E-09	< 2.14E-10
	1,3-Butadiene	00106-99-0	9.56E-10	8.18E-10	1.03E-09	1.29E-09	< 4.12E-10	< 4.50E-11	< 8.00E-10	< 7.17E-10
1	1,3-Dichlorobenzene	00541-73-1	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
	1,3,5-Trimethylbenzene	00108-67-8	2.00E-09	< 1.97E-10	< 2.00E-10	< 2.23E-10	< 2.04E-09	< 2.22E-10	< 1.41E-09	< 2.14E-10
1	1,4-Dichlorobenzene	00106-46-7	< 2.61E-10	< 2.84E-10	9.01E-11	< 3.21E-10	1.36E-10	< 3.20E-10	< 1.62E-10	< 3.08E-10
	1,4-Diethylbenzene + n-Butylbenzene	00105-05-5/00104-51-8	< 4.56E-10	< 1.98E-10	< 2.01E-10	< 2.24E-10	< 2.05E-09	< 2.23E-10	< 9.01E-10	< 2.15E-10
1	1,4-Dioxane	00123-91-1	< 1.05E-09	< 1.13E-09	< 1.15E-09	< 1.29E-09	< 1.17E-09	< 1.28E-09	< 1.12E-09	< 1.23E-09
1	2-Butanone	00078-93-3	2.61E-10	3.08E-10	2.59E-10	8.43E-10	2.34E-10	< 6.40E-10	2.52E-10	< 5.97E-10
1	2-Hexanone	00591-78-6	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
	2-Methyl-1-butene	00563-46-2	< 9.53E-11	5.59E-10	3.57E-10	1.29E-09	< 4.28E-10	< 4.67E-11	< 2.93E-10	< 6.31E-10
	2-Methyl-2-butene	00513-35-9	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
	2-Methyl-2-pentene	00625-27-4	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
	2-Methylheptane	00592-27-8	5.24E-09	9.27E-10	6.85E-09	< 4.77E-11	< 4.35E-10	< 4.75E-11	< 4.17E-09	< 3.41E-10
	2-Methylhexane	00591-76-4	9.53E-07	5.91E-07	9.44E-07	2.87E-08	2.40E-07	< 4.76E-11	7.12E-07	< 2.07E-07
	2-Methylpentane	00107-83-5	< 9.76E-11	1.67E-09	< 4.30E-11	4.08E-09	< 4.38E-10	< 4.78E-11	< 1.93E-10	< 1.93E-09
	2,2-Dimethylbutane	00075-83-2	< 9.76E-11	2.97E-10	< 4.30E-11	9.36E-10	< 4.38E-10	< 4.78E-11	< 1.93E-10	< 4.27E-10
	2,2-Dimethylpropane	00463-82-1	< 9.81E-11	< 4.26E-11	< 4.32E-11	< 4.82E-11	< 4.40E-10	< 4.80E-11	< 1.94E-10	< 4.63E-11

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (lb/lb rubber processed)									
	2,3-Dimethylpentane	00565-59-3	< 9.73E-11	2.03E-07	< 4.29E-11	1.00E-08	< 4.36E-10	< 4.76E-11	< 1.92E-10	< 7.09E-08
	2,3,4-Trimethylpentane	00565-75-3	< 9.70E-11	< 4.21E-11	< 4.28E-11	< 4.77E-11	< 4.35E-10	< 4.75E-11	< 1.92E-10	< 4.58E-11
	2,4-Dimethylhexane	00589-43-5	1.49E-07	2.53E-08	1.39E-07	9.30E-10	3.26E-08	< 4.75E-11	1.07E-07	< 8.75E-09
	3-Methylhexane	00589-34-4	< 9.73E-11	8.45E-07	3.43E-06	4.30E-08	1.11E-06	< 4.76E-11	< 1.51E-06	< 2.96E-07
	3-Methylpentane	00096-14-0	< 9.76E-11	2.33E-09	< 4.30E-11	5.76E-09	< 4.38E-10	< 4.78E-11	< 1.93E-10	< 2.71E-09
	4-Methyl-1-pentene	00691-37-2	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
1	4-Methyl-2-Pentanone	00108-10-1	1.27E-08	3.05E-09	1.37E-08	7.23E-10	1.58E-08	1.64E-09	1.41E-08	1.80E-09
1	Acetone	00067-64-1	3.27E-09	< 5.67E-10	3.10E-09	6.43E-09	3.37E-09	2.20E-09	3.25E-09	< 3.06E-09
1	Acetonitrile	01722-09-4	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	< 6.40E-10	< 5.62E-10	< 6.16E-10
	Acetylene	00074-86-2	< 8.85E-11	< 3.84E-11	< 3.90E-11	< 4.35E-11	< 3.97E-10	< 4.33E-11	< 1.75E-10	< 4.17E-11
1	Acrolein	00107-02-8	1.05E-08	1.56E-09	7.56E-09	< 6.43E-10	5.50E-09	< 6.40E-10	7.84E-09	< 9.47E-10
1	Acrylonitrile	00107-13-1	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	< 6.40E-10	< 5.62E-10	< 6.16E-10
1	Allyl Chloride	00107-05-1	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	< 6.40E-10	< 5.62E-10	< 6.16E-10
	a-Pinene	07785-70-8	< 9.26E-11	9.85E-10	< 4.08E-11	< 4.55E-11	< 4.15E-10	< 4.53E-11	< 1.83E-10	< 3.58E-10
	Benzene	00071-43-2	2.12E-07	< 3.84E-11	2.34E-07	6.96E-10	5.16E-08	< 4.33E-11	1.66E-07	< 2.59E-10
1	Benzyl Chloride	00100-44-7	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	< 6.40E-10	< 5.62E-10	< 6.16E-10
	b-Pinene	18172-67-3	< 4.63E-10	< 2.01E-10	< 2.04E-10	< 2.28E-10	< 2.08E-09	< 2.27E-10	< 9.14E-10	< 2.18E-10
1	Bromodichloromethane	00075-27-4	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	Bromoform	00075-25-2	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	Bromomethane	00074-83-9	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	2 C7H16Branched Alkane		1.37E-07	1.74E-07	1.91E-07	4.02E-09	1.06E-07		1.45E-07	< 5.93E-08
1	Carbon Disulfide	00075-15-0	1.24E-08	2.20E-09	1.15E-08	1.08E-09	9.89E-09	2.24E-10	1.13E-08	1.17E-09
1	Carbon Tetrachloride	00056-23-5	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	Chlorobenzene	00108-90-7	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	Chlorodibromomethane	00124-48-1	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	Chloroethane	00075-00-3	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	Chloroform	00067-66-3	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	Chloromethane	00074-87-3	6.54E-11	< 2.84E-10	< 2.88E-10	7.63E-11	< 2.93E-10	< 3.20E-10	< 2.16E-10	< 2.27E-10
1	cis-1,2-Dichloroethene	00156-59-2	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	cis-1,3-Dichloropropene	10061-01-5	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
	cis-2-Butene	00590-18-1	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
	cis-2-Hexene	07688-21-3	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
	cis-2-Pentene	00627-20-3	1.83E-09	2.90E-09	1.79E-09	6.80E-09	3.85E-09	6.06E-10	2.49E-09	3.43E-09

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3
RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (lb/lb rubber processed)									
	Cumene	00098-82-8	< 9.08E-11	< 3.94E-11	< 4.00E-11	< 4.46E-11	< 4.07E-10	< 4.44E-11	< 1.79E-10	< 4.28E-11
1 2	Cyclobutane	00287-23-0	1.96E-09		3.24E-09				< 1.73E-09	< 0.00E+00
	Cyclohexane	00110-82-7	2.86E-06	8.28E-09	2.94E-06	1.66E-09	7.70E-07	< 4.67E-11	2.19E-06	< 3.33E-09
	Cyclopentane + 2,3-Dimethylbutane	00287-92-3/00079-29-8	2.02E-09	8.30E-10	3.04E-09	2.35E-09	< 4.76E-10	< 5.20E-11	< 1.85E-09	< 1.08E-09
	Cyclopentene	00142-29-0	< 9.26E-11	< 4.02E-11	< 4.08E-11	< 4.55E-11	< 4.15E-10	< 4.53E-11	< 1.83E-10	< 4.37E-11
1	Dichlorodifluoromethane	00075-71-8	3.10E-09	7.45E-10	< 2.88E-10	2.49E-10	< 2.93E-10	< 3.20E-10	< 1.23E-09	< 4.38E-10
1 2	Dimethylcyclopentane			6.74E-08			6.23E-08		2.08E-08	2.25E-08
	d-Limonene	05989-27-5	< 4.63E-10	< 2.01E-10	< 2.04E-10	< 2.28E-10	< 2.08E-09	< 2.27E-10	< 9.14E-10	< 2.18E-10
1	Epichlorohydrin	00106-89-8	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	< 6.40E-10	< 5.62E-10	< 6.16E-10
	Ethane	00074-84-0	9.81E-10	< 4.44E-11	1.19E-09	< 5.02E-11	< 4.58E-10	< 5.00E-11	< 8.78E-10	< 4.82E-11
	Ethylacetylene	00107-00-6	< 9.19E-11	< 3.99E-11	< 4.05E-11	< 4.52E-11	< 4.12E-10	< 4.50E-11	< 1.82E-10	< 4.33E-11
	Ethylbenzene	00100-41-4	< 9.02E-11	< 3.91E-11	< 3.98E-11	< 4.43E-11	< 4.04E-10	< 4.41E-11	< 1.78E-10	< 4.25E-11
1 2	Ethylcyclopentane	01640-89-7	3.27E-08		7.20E-08				< 3.49E-08	< 0.00E+00
	Ethylene	00074-85-1	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
1 2	Ethylpentane						7.33E-08		2.44E-08	0.00E+00
1 2	Heptane	00142-82-5		1.06E-07		2.01E-08	1.47E-07	1.20E-09	4.88E-08	4.25E-08
1	Hexachlorobutadiene	00087-68-3	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	< 6.40E-10	< 5.62E-10	< 6.16E-10
	Isobutane	00075-28-5	< 9.88E-11	1.20E-08	< 4.35E-11	4.61E-08	< 4.43E-10	< 4.83E-11	< 1.95E-10	< 1.94E-08
	Isobutylene + 1-Butene	00115-11-7/00106-98-9	2.10E-09	3.31E-10	2.02E-09	2.58E-10	< 4.28E-10	< 4.67E-11	< 1.51E-09	< 2.12E-10
	Isooctane	00540-84-1	< 9.70E-11	5.69E-08	< 4.28E-11	3.34E-09	< 4.35E-10	< 4.75E-11	< 1.92E-10	< 2.01E-08
	Isopentane	00078-78-4	< 9.81E-11	3.62E-08	< 4.32E-11	1.18E-07	8.36E-09	3.36E-09	< 2.83E-09	5.26E-08
	Isoprene	00078-79-5	< 9.26E-11	< 4.02E-11	< 4.08E-11	< 4.55E-11	< 4.15E-10	< 4.53E-11	< 1.83E-10	< 4.37E-11
1 2	Isopropyl alcohol	00067-63-0						8.00E-09	0.00E+00	2.67E-09
1 2	Matrix of C7-C8 Cyclic & alphatic HC		9.80E-07		1.44E-06				8.07E-07	0.00E+00
	Methylacetylene	00074-99-7	< 8.85E-11	< 3.84E-11	< 3.90E-11	< 4.35E-11	< 3.97E-10	< 4.33E-11	< 1.75E-10	< 4.17E-11
	Methylcyclohexane	00108-87-2	1.32E-06	2.69E-07	1.43E-06	1.29E-08	3.42E-07	< 4.67E-11	1.03E-06	< 9.40E-08
	Methylcyclopentane	00096-37-7	8.77E-08	1.99E-08	9.88E-08	8.44E-09	2.35E-08	< 4.67E-11	7.00E-08	< 9.45E-09
1	Methylene Chloride	00075-09-2	3.10E-09	5.32E-09	2.45E-09	1.20E-08	2.82E-09	8.00E-10	2.79E-09	6.06E-09
1 2	Methylhexane			2.13E-07		2.81E-08	2.56E-07		8.55E-08	8.03E-08
1 2	Methylhexanone		9.80E-09		1.44E-08		2.20E-08	4.00E-09	1.54E-08	1.33E-09
1 2	Methylpentane								0.00E+00	0.00E+00
	m-Ethyltoluene	00620-14-4	< 9.08E-11	< 3.94E-11	< 4.00E-11	< 4.46E-11	< 4.07E-10	< 4.44E-11	< 1.79E-10	< 4.28E-11
	m-Xylene + p-Xylene	00108-38-3/00106-42-3	1.24E-09	7.44E-10	1.23E-09	1.93E-09	< 4.04E-10	< 4.41E-11	< 9.61E-10	< 9.06E-10
	n-Butane	00106-97-8	< 9.88E-11	9.43E-10	< 4.35E-11	1.65E-09	< 4.43E-10	< 4.83E-11	< 1.95E-10	< 8.81E-10

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-3

RETREAD BUFFING SPECIATED VOLATILES SUMMARY

	Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
	Speciated Vol. (lb/lb rubber processed)									
	n-Decane	00124-18-5	< 4.83E-10	< 2.10E-10	< 2.13E-10	< 2.38E-10	< 2.17E-09	< 2.37E-10	< 9.55E-10	< 2.28E-10
	n-Heptane	00142-82-5	3.89E-06	7.81E-07	3.22E-06	3.83E-08	1.03E-06	< 4.76E-11	2.71E-06	< 2.73E-07
	n-Hexane	00110-54-3	< 9.76E-11	6.08E-09	< 4.30E-11	1.10E-08	< 4.38E-10	1.48E-09	< 1.93E-10	6.18E-09
	n-Nonane	00111-84-2	< 9.68E-11	2.52E-10	< 4.27E-11	5.00E-10	< 4.34E-10	< 4.74E-11	< 1.91E-10	< 2.67E-10
	n-Octane	00111-65-9	< 9.70E-11	< 4.21E-11	< 4.28E-11	< 4.77E-11	< 4.35E-10	< 4.75E-11	< 1.92E-10	< 4.58E-11
	n-Pentane	00109-66-0	< 9.81E-11	5.53E-09	< 4.32E-11	1.78E-08	< 4.40E-10	< 4.80E-11	< 1.94E-10	< 7.81E-09
	n-Propylbenzene	00103-65-1	< 9.08E-11	< 3.94E-11	< 4.00E-11	< 4.46E-11	< 4.07E-10	< 4.44E-11	< 1.79E-10	< 4.28E-11
	o-Ethyltoluene	00611-14-3	< 4.54E-10	< 1.97E-10	< 2.00E-10	< 2.23E-10	< 2.04E-09	< 2.22E-10	< 8.96E-10	< 2.14E-10
	o-Xylene	00095-47-6	1.05E-09	1.96E-10	8.35E-10	6.87E-10	< 4.04E-10	< 4.41E-11	< 7.62E-10	< 3.09E-10
	p-Cymene	00099-87-6	< 4.56E-10	< 1.98E-10	< 2.01E-10	< 2.24E-10	< 2.05E-09	< 2.23E-10	< 9.01E-10	< 2.15E-10
1	*2* Pentane					1.20E-08			0.00E+00	4.02E-09
	p-Ethyltoluene	00622-96-8	< 9.08E-11	< 3.94E-11	< 4.00E-11	< 4.46E-11	< 4.07E-10	< 4.44E-11	< 1.79E-10	< 4.28E-11
	Propane	00074-98-6	3.00E-09	7.37E-10	3.08E-09	4.42E-09	4.48E-09	< 4.89E-11	3.52E-09	< 1.74E-09
	Propylene	00115-07-1	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
1	Propylene Oxide	00075-56-9	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	3.48E-09	< 5.62E-10	< 1.56E-09
	Styrene	00100-42-5	1.61E-09	< 3.84E-11	3.12E-09	< 4.35E-11	< 3.97E-10	< 4.33E-11	< 1.71E-09	< 4.17E-11
1	t-Butyl Methyl Ether	01634-04-4	< 5.23E-10	< 5.67E-10	< 5.76E-10	< 6.43E-10	< 5.86E-10	< 6.40E-10	< 5.62E-10	< 6.16E-10
1	Tetrachloroethene	00127-18-4	8.82E-11	9.93E-10	< 2.88E-10	3.57E-09	< 2.93E-10	< 3.20E-10	< 2.23E-10	< 1.63E-09
	Toluene	00108-88-3	8.23E-09	4.66E-09	1.07E-08	8.80E-09	< 4.01E-10	5.91E-10	< 6.43E-09	4.68E-09
1	trans-1,2-Dichloroethene	00156-60-5	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	trans-1,2-Dichloropropene	10061-02-6	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
	trans-2-Butene	00624-64-6	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
	trans-2-Hexene	04050-45-7	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
	trans-2-Pentene	00646-04-8	< 9.53E-11	< 4.14E-11	< 4.20E-11	< 4.69E-11	< 4.28E-10	< 4.67E-11	< 1.88E-10	< 4.50E-11
1	Trichloroethene	00079-01-6	< 2.61E-10	< 2.84E-10	< 2.88E-10	3.01E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.02E-10
1	Trichlorofluoromethane	00075-69-4	< 2.61E-10	< 2.84E-10	< 2.88E-10	3.13E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.06E-10
1	Trichlortrifluoroethane	00076-13-1	< 2.61E-10	< 2.84E-10	< 2.88E-10	3.57E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.20E-10
1	Vinyl Acetate	00108-05-4	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
1	Vinyl Chloride	00075-01-4	< 2.61E-10	< 2.84E-10	< 2.88E-10	< 3.21E-10	< 2.93E-10	< 3.20E-10	< 2.81E-10	< 3.08E-10
	Total Detected		1.10E-05	3.62E-06	1.45E-05	4.98E-07	4.39E-06	3.42E-08	9.95E-06	1.38E-06
	Total with non-detects		< 1.10E-05	< 3.63E-06	< 1.45E-05	< 5.17E-07	< 4.44E-06	< 5.64E-08	< 9.98E-06	< 1.40E-06

TRC

1-TO14 Compounds 2-Tentatively Identified Compounds

TABLE F.1-4
RETREAD BUFFING SULFUR SUMMARY

Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet with non-detects	AVERAGE Outlet with non-detects
Sulfur (µg/m³)									
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8	< 16.6	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 16.0	< 7.9	< 16.0	< 7.9	< 13.3	< 7.9
Ethyl Mercaptan	75-08-1	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0	< 16.7	< 10.0
Dimethyl Sulfide	75-18-3	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0	< 16.7	< 10.0
Carbon Disulfide	75-15-0	223.0	37.6	235.0	19.1	187.0	< 6.2	215.0	< 21.0
Isopropyl Mercaptan	75-33-2	< 12.0	< 12.0	< 25.0	< 12.0	< 25.0	< 12.0	< 20.7	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15.0	< 15.0	< 29.0	< 15.0	< 29.0	< 15.0	< 24.3	< 15.0
n-Propyl Mercaptan	107-03-9	< 12.0	< 12.0	< 25.0	< 12.0	< 25.0	< 12.0	< 20.7	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12.0	< 12.0	< 25.0	< 12.0	< 25.0	< 12.0	< 20.7	< 12.0
Thiophene	110-02-1	< 14.0	< 14.0	< 28.0	< 14.0	< 28.0	< 14.0	< 23.3	< 14.0
Isobutyl Mercaptan	513-44-0	< 15.0	< 15.0	< 29.0	< 15.0	< 29.0	< 15.0	< 24.3	< 15.0
Diethyl Sulfide	352-93-2	< 15.0	< 15.0	< 29.0	< 15.0	< 29.0	< 15.0	< 24.3	< 15.0
n-Butyl Mercaptan	109-79-5	< 15.0	< 15.0	< 29.0	< 15.0	< 29.0	< 15.0	< 24.3	< 15.0
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 15.0	< 7.7	< 15.0	< 7.7	< 12.6	< 7.7
3-Methylthiophene	616-44-4	< 16.0	< 16.0	< 32.0	< 16.0	< 32.0	< 16.0	< 26.7	< 16.0
Tetrahydrothiophene	110-01-0	< 14.0	< 14.0	< 29.0	< 14.0	< 29.0	< 14.0	< 24.0	< 14.0
2-Ethylthiophene	872-55-9	< 18.0	< 18.0	< 37.0	< 18.0	< 37.0	< 18.0	< 30.7	< 18.0
2,5-Dimethylthiophene	638-02-8	< 18.0	< 18.0	< 37.0	< 18.0	< 37.0	< 18.0	< 30.7	< 18.0
Diethyl Disulfide	110-81-6	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0	< 16.7	< 10.0
Total Detected		223.0	37.6	235.0	19.1	187.0	0.0	215.0	18.9
Total with non-detects		< 454.4	< 269.0	< 700.0	< 250.5	< 652.0	< 237.6	< 602.1	< 252.4
Sulfur (lb/hr)									
Carbonyl Sulfide	463-58-1	< 3.03E-04	< 3.29E-04	< 5.99E-04	< 3.27E-04	< 5.84E-04	< 3.12E-04	< 4.95E-04	< 3.23E-04
Methyl Mercaptan	74-93-1	< 2.44E-04	< 2.65E-04	< 4.79E-04	< 2.64E-04	< 4.67E-04	< 2.52E-04	< 3.97E-04	< 2.60E-04
Ethyl Mercaptan	75-08-1	< 3.09E-04	< 3.36E-04	< 5.99E-04	< 3.34E-04	< 5.84E-04	< 3.19E-04	< 4.97E-04	< 3.29E-04
Dimethyl Sulfide	75-18-3	< 3.09E-04	< 3.36E-04	< 5.99E-04	< 3.34E-04	< 5.84E-04	< 3.19E-04	< 4.97E-04	< 3.29E-04
Carbon Disulfide	75-15-0	6.90E-03	1.26E-03	7.04E-03	6.38E-04	5.46E-03	< 1.98E-04	6.46E-03	< 6.99E-04
Isopropyl Mercaptan	75-33-2	< 3.71E-04	< 4.03E-04	< 7.49E-04	< 4.01E-04	< 7.30E-04	< 3.82E-04	< 6.17E-04	< 3.95E-04
tert-Butyl Mercaptan	75-66-1	< 4.64E-04	< 5.03E-04	< 8.68E-04	< 5.01E-04	< 8.47E-04	< 4.78E-04	< 7.26E-04	< 4.94E-04
n-Propyl Mercaptan	107-03-9	< 3.71E-04	< 4.03E-04	< 7.49E-04	< 4.01E-04	< 7.30E-04	< 3.82E-04	< 6.17E-04	< 3.95E-04
Ethyl Methyl Sulfide	624-89-5	< 3.71E-04	< 4.03E-04	< 7.49E-04	< 4.01E-04	< 7.30E-04	< 3.82E-04	< 6.17E-04	< 3.95E-04
Thiophene	110-02-1	< 4.33E-04	< 4.70E-04	< 8.38E-04	< 4.67E-04	< 8.18E-04	< 4.46E-04	< 6.96E-04	< 4.61E-04
Isobutyl Mercaptan	513-44-0	< 4.64E-04	< 5.03E-04	< 8.68E-04	< 5.01E-04	< 8.47E-04	< 4.78E-04	< 7.26E-04	< 4.94E-04
Diethyl Sulfide	352-93-2	< 4.64E-04	< 5.03E-04	< 8.68E-04	< 5.01E-04	< 8.47E-04	< 4.78E-04	< 7.26E-04	< 4.94E-04
n-Butyl Mercaptan	109-79-5	< 4.64E-04	< 5.03E-04	< 8.68E-04	< 5.01E-04	< 8.47E-04	< 4.78E-04	< 7.26E-04	< 4.94E-04
Dimethyl Disulfide	624-92-0	< 2.38E-04	< 2.58E-04	< 4.49E-04	< 2.57E-04	< 4.38E-04	< 2.45E-04	< 3.75E-04	< 2.54E-04
3-Methylthiophene	616-44-4	< 4.95E-04	< 5.37E-04	< 9.58E-04	< 5.34E-04	< 9.34E-04	< 5.10E-04	< 7.96E-04	< 5.27E-04
Tetrahydrothiophene	110-01-0	< 4.33E-04	< 4.70E-04	< 8.68E-04	< 4.67E-04	< 8.47E-04	< 4.46E-04	< 7.16E-04	< 4.61E-04
2-Ethylthiophene	872-55-9	< 5.57E-04	< 6.04E-04	< 1.11E-03	< 6.01E-04	< 1.08E-03	< 5.73E-04	< 9.15E-04	< 5.93E-04
2,5-Dimethylthiophene	638-02-8	< 5.57E-04	< 6.04E-04	< 1.11E-03	< 6.01E-04	< 1.08E-03	< 5.73E-04	< 9.15E-04	< 5.93E-04
Diethyl Disulfide	110-81-6	< 3.09E-04	< 3.36E-04	< 5.99E-04	< 3.34E-04	< 5.84E-04	< 3.19E-04	< 4.97E-04	< 3.29E-04
Total Detected		6.90E-03	1.26E-03	7.04E-03	6.38E-04	5.46E-03	0.00E+00	6.46E-03	6.33E-04
Total with non-detects		< 1.41E-02	< 9.03E-03	< 2.10E-02	< 8.36E-03	< 1.90E-02	< 7.57E-03	< 1.80E-02	< 8.32E-03
Sulfur (lb/lb rubber)									
Carbonyl Sulfide	463-58-1	< 3.84E-08	< 4.17E-08	< 8.65E-08	< 4.72E-08	< 8.79E-08	< 4.70E-08	< 7.09E-08	< 4.53E-08
Methyl Mercaptan	74-93-1	< 3.10E-08	< 3.36E-08	< 6.92E-08	< 3.81E-08	< 7.03E-08	< 3.79E-08	< 5.68E-08	< 3.65E-08
Ethyl Mercaptan	75-08-1	< 3.92E-08	< 4.25E-08	< 8.65E-08	< 4.82E-08	< 8.79E-08	< 4.80E-08	< 7.12E-08	< 4.62E-08
Dimethyl Sulfide	75-18-3	< 3.92E-08	< 4.25E-08	< 8.65E-08	< 4.82E-08	< 8.79E-08	< 4.80E-08	< 7.12E-08	< 4.62E-08
Carbon Disulfide	75-15-0	8.74E-07	1.60E-07	1.02E-06	9.20E-08	8.22E-07	< 2.97E-08	9.04E-07	< 9.39E-08
Isopropyl Mercaptan	75-33-2	< 4.71E-08	< 5.11E-08	< 1.08E-07	< 5.78E-08	< 1.10E-07	< 5.76E-08	< 8.83E-08	< 5.55E-08
tert-Butyl Mercaptan	75-66-1	< 5.88E-08	< 6.38E-08	< 1.25E-07	< 7.23E-08	< 1.27E-07	< 7.20E-08	< 1.04E-07	< 6.94E-08
n-Propyl Mercaptan	107-03-9	< 4.71E-08	< 5.11E-08	< 1.08E-07	< 5.78E-08	< 1.10E-07	< 5.76E-08	< 8.83E-08	< 5.55E-08
Ethyl Methyl Sulfide	624-89-5	< 4.71E-08	< 5.11E-08	< 1.08E-07	< 5.78E-08	< 1.10E-07	< 5.76E-08	< 8.83E-08	< 5.55E-08
Thiophene	110-02-1	< 5.49E-08	< 5.96E-08	< 1.21E-07	< 6.75E-08	< 1.23E-07	< 6.72E-08	< 9.97E-08	< 6.47E-08
Isobutyl Mercaptan	513-44-0	< 5.88E-08	< 6.38E-08	< 1.25E-07	< 7.23E-08	< 1.27E-07	< 7.20E-08	< 1.04E-07	< 6.94E-08
Diethyl Sulfide	352-93-2	< 5.88E-08	< 6.38E-08	< 1.25E-07	< 7.23E-08	< 1.27E-07	< 7.20E-08	< 1.04E-07	< 6.94E-08
n-Butyl Mercaptan	109-79-5	< 5.88E-08	< 6.38E-08	< 1.25E-07	< 7.23E-08	< 1.27E-07	< 7.20E-08	< 1.04E-07	< 6.94E-08
Dimethyl Disulfide	624-92-0	< 3.02E-08	< 3.28E-08	< 6.48E-08	< 3.71E-08	< 6.39E-08	< 3.69E-08	< 5.37E-08	< 3.56E-08
3-Methylthiophene	616-44-4	< 6.27E-08	< 6.81E-08	< 1.38E-07	< 7.71E-08	< 1.41E-07	< 7.68E-08	< 1.14E-07	< 7.40E-08
Tetrahydrothiophene	110-01-0	< 5.49E-08	< 5.96E-08	< 1.25E-07	< 6.75E-08	< 1.27E-07	< 6.72E-08	< 1.03E-07	< 6.47E-08
2-Ethylthiophene	872-55-9	< 7.06E-08	< 7.66E-08	< 1.60E-07	< 8.67E-08	< 1.63E-07	< 8.63E-08	< 1.31E-07	< 8.32E-08
2,5-Dimethylthiophene	638-02-8	< 7.06E-08	< 7.66E-08	< 1.60E-07	< 8.67E-08	< 1.63E-07	< 8.63E-08	< 1.31E-07	< 8.32E-08
Diethyl Disulfide	110-81-6	< 3.92E-08	< 4.25E-08	< 8.65E-08	< 4.82E-08	< 8.79E-08	< 4.80E-08	< 7.12E-08	< 4.62E-08
Total Detected		8.74E-07	1.60E-07	1.02E-06	9.20E-08	8.22E-07	0.00E+00	9.04E-07	8.40E-08
Total with non-detects		< 1.78E-06	< 1.14E-06	< 3.03E-06	< 1.21E-06	< 2.87E-06	< 1.14E-06	< 2.56E-06	< 1.16E-06

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TABLE F.1-5
RETREAD BUFFING METALS SUMMARY

	Run 1		Run 2		Run 3		AVERAGE	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet w/ non-detects	Outlet w/ non-detects
METALS (µg) *								
Co	5.86	< 2.10	4.72	< 2.10	5.71	< 2.10	5.43	< 2.10
Cr			5.40		39.00	11.60	14.80	3.87
Mg	339.40	4.80	237.40	6.40	170.40	63.80	249.07	25.00
Ni	1.80		9.63		20.23	2.86	10.55	0.95
Zn	69852.30	114.30	65783.30	65.50	42101.30	3323.30	59245.63	1167.70
Total Detected	70199.36	119.10	66040.45	71.90	42336.64	3401.56	59525.48	1197.52
Total with non-detects	70199.36	< 121.20	66040.45	< 74.00	42336.64	< 3403.66	59525.48	< 1199.62
METALS (µg/m³)								
Co	2.22	< 0.66	1.84	< 0.69	2.24	< 0.68	2.10	< 0.67
Cr			2.11		15.32	3.74	5.81	1.25
Mg	128.74	1.50	92.77	2.09	66.93	20.55	96.15	8.05
Ni	0.68		3.76		7.95	0.92	4.13	0.31
Zn	26496.25	35.69	25706.69	21.38	16537.20	1070.43	22913.38	375.83
Total Detected	26627.90	37.18	25807.18	23.47	16629.64	1095.64	23021.57	385.43
Total with non-detects	26627.90	< 37.84	25807.18	< 24.16	16629.64	< 1096.32	23021.57	< 386.10
METALS (lb/hr)								
Co	6.77E-05	< 2.50E-05	5.44E-05	< 2.55E-05	6.50E-05	< 2.50E-05	6.24E-05	< 2.52E-05
Cr			6.22E-05		4.44E-04	1.38E-04	1.69E-04	4.61E-05
Mg	3.92E-03	5.71E-05	2.74E-03	7.76E-05	1.94E-03	7.60E-04	2.87E-03	2.98E-04
Ni	2.08E-05		1.11E-04		2.30E-04	3.41E-05	1.21E-04	1.14E-05
Zn	8.07E-01	1.36E-03	7.58E-01	7.94E-04	4.79E-01	3.96E-02	6.81E-01	1.39E-02
Total Detected	8.11E-01	1.42E-03	7.61E-01	8.72E-04	4.82E-01	4.05E-02	6.85E-01	1.43E-02
Total with non-detects	8.11E-01	< 1.44E-03	7.61E-01	< 8.97E-04	4.82E-01	< 4.05E-02	6.85E-01	< 1.43E-02
METALS (lb/lb rubber)								
Co	8.58E-09	< 3.17E-09	7.85E-09	< 3.68E-09	9.79E-09	< 3.77E-09	8.74E-09	< 3.54E-09
Cr			8.99E-09		6.69E-08	2.08E-08	2.53E-08	6.94E-09
Mg	4.97E-07	7.24E-09	3.95E-07	1.12E-08	2.92E-07	1.14E-07	3.95E-07	4.43E-08
Ni	2.63E-09		1.60E-08		3.47E-08	5.13E-09	1.78E-08	1.71E-09
Zn	1.02E-04	1.72E-07	1.09E-04	1.15E-07	7.22E-05	5.96E-06	9.46E-05	2.08E-06
Total Detected	1.03E-04	1.80E-07	1.10E-04	1.26E-07	7.26E-05	6.10E-06	9.51E-05	2.14E-06
Total with non-detects	1.03E-04	< 1.83E-07	1.10E-04	< 1.30E-07	7.26E-05	< 6.11E-06	9.51E-05	< 2.14E-06

* - Blank corrected

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TABLE F.1-6

RETREAD BUFFING POM SUMMARY

	Run-1		Run-2		Run-3		Averages	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
POM- (mg)	42.6	11.0	28.6	18.5	16.2	9.0	29.1	12.8
Sample Volume (dscf)	72.359	88.143	73.117	86.795	70.342	84.303	71.939	86.414
POM (mg/m³)	20.79	4.41	13.81	7.53	8.13	3.77	14.24	5.23
Flowrate (dscfm)	8024	10113	7944	10008	7679	9859	7882	9993
POM (lb/hr)	0.625	0.167	0.411	0.282	0.234	0.139	0.423	0.196
Run Time (min)	120	120	120	120	120	120	120	120
Rubber Processed (lbs)	15777	15777	13854	13854	13283	13283	14305	14305
POM (lb/lb rubber processed)	7.92E-05	2.12E-05	5.93E-05	4.07E-05	3.52E-05	2.10E-05	5.79E-05	2.76E-05

TRC

TABLE F.1-7
RETREAD BUFFING PARTICULATE MATTER SUMMARY

	Run-1		Run-2		Run-3		Averages	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Particulate Matter - (mg)	6806.3	23.7	6151.7	26.4	4801.1	310.5	5919.7	120.2
Sample Volume (dscf)	93.09	113.099	90.36	108.155	89.896	109.627	91.115	110.294
Flowrate (dscfm)	8126	10170	7874	9914	7734	9873	7911	9986
PM- (grain/dscf)	1.128	0.003	1.051	0.004	0.824	0.044	1.001	0.017
PM- (mg/m³)	2581.8	7.40	2404.0	8.62	1885.8	100.0	2290.5	38.7
PM (lb/hr)	78.589	0.282	70.908	0.320	54.636	3.699	68.044	1.434
Run Time (min)	120	120	120	120	120	120	120	120
Rubber Processed (lbs)	15777	15777	13854	13854	13283	13283	14305	14305
PM (lb/lb rubber processed)	9.96E-03	3.57E-05	1.02E-02	4.62E-05	8.23E-03	5.57E-04	9.48E-03	2.13E-04

TRC

Section F.2

Carcass Grinding

TRC

Section F.2

Carcass Grinding

Table Number	Title	No. of Pages
F.2-1	Carcass Grinding Summary Table	1
F.2-2	Carcass Grinding Speciated Semivolatiles Summary	6
F.2-3	Carcass Grinding Speciated Volatiles Summary	6
F.2-4	Carcass Grinding Sulfur Summary	1
F.2-5	Carcass Grinding Metals Summary	1
F.2-6	Carcass Grinding POM Summary	1
F.2-7	Carcass Grinding Particulate Matter Summary	1

TABLE F.2-1
CARCASS GRINDING SUMMARY

	Run 1		Run 2		Run 3		Averages	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Total Number of Tires	20		21		19		20	
Total Rubber Removed (lbs/run)	230.4		229.5		188.9		216.3	
Total Rubber Removed (lbs/hr)	131.65		113.80		101.21		115.55	
Run Time (min)	105		121		112		113	
Total VOCs (ppm/run)	3.2	5.0	6.2	6.9	2.6	6.3	4.0	6.1
Total VOCs (lbs/hr)	4.98E-02	7.59E-02	9.03E-02	1.09E-01	3.86E-02	1.00E-01	5.96E-02	9.50E-02
Total VOCs (lbs/lb rubber removed)	3.79E-04	5.76E-04	7.93E-04	9.60E-04	3.82E-04	9.92E-04	5.18E-04	8.43E-04
Standard Deviation (lbs/lb rubber removed)	3.63E-04	3.24E-04	4.48E-04	4.76E-04	2.66E-04	4.50E-04	3.59E-04	4.17E-04
Total Speciated Semi Vols. (µg/m³)	4392.56	144.76	12070.75	133.01	9363.63	181.16	8608.98	152.98
Total Speciated Semi Vols. (lbs/hr)	3.73E-02	1.25E-03	9.83E-02	1.16E-03	7.37E-02	1.59E-03	6.98E-02	1.33E-03
Total Speciated Semi Vols. (lbs/lb rubber removed) Detected	2.84E-04	9.51E-06	8.64E-04	1.02E-05	7.28E-04	1.57E-05	6.25E-04	1.18E-05
Total Speciated Semi Vols. (lbs/lb rubber removed) with non-detects	< 4.07E-04	< 3.59E-05	< 9.91E-04	< 4.33E-05	< 8.72E-04	< 5.34E-05	< 7.57E-04	< 4.42E-05
Total Speciated Vols. (µg/m³)	161615.7	28642.0	254464.1	16959.5	238860.0	7443.4	218313.28	17681.62
Total Speciated Vols. (lbs/hr)	1.37E+00	2.48E-01	2.07E+00	1.48E-01	1.88E+00	6.51E-02	1.78E+00	1.54E-01
Total Speciated Vols. (lbs/lb rubber removed) Detected	1.04E-02	1.88E-03	1.82E-02	1.30E-03	1.86E-02	6.44E-04	1.57E-02	1.27E-03
Total Speciated Vols. (lbs/lb rubber removed) with non-detects	< 1.05E-02	< 1.19E-03	< 1.83E-02	< 1.34E-03	< 1.87E-02	< 6.86E-04	< 1.58E-02	< 1.31E-03
Total Sulfur (µg/m³)	109	76.2	160	ND	147.4	ND	138.80	25.40
Total Sulfur (lbs/hr)	9.26E-04	6.59E-04	1.30E-03	ND	1.16E-03	ND	1.13E-03	2.20E-04
Total Sulfur (lbs/lb rubber removed) Detected	7.04E-06	5.01E-06	1.15E-05	ND	1.15E-05	ND	9.99E-06	1.67E-06
Total Sulfur (lbs/lb rubber removed) with non-detects	< 2.21E-05	< 1.96E-05	< 2.73E-05	< 1.86E-05	< 2.87E-05	< 2.10E-05	< 2.60E-05	< 1.97E-05
Total Metals (µg/m³)	300,652.8	90.2	167,444.5	78.7	134,983.7	85.3	201,027.0	84.7
Total Metals (lbs/hr)	2.55E+00	8.60E-04	1.34E+00	7.91E-04	1.05E+00	8.53E-04	1.64E+00	8.34E-04
Total Metals (lbs/lb rubber removed) Detected	1.93E-02	6.53E-06	1.18E-02	6.95E-06	1.04E-02	8.43E-06	1.38E-02	7.30E-06
Total Metals (lbs/lb rubber removed) with non-detects	1.93E-02	< 6.85E-06	1.18E-02	< 7.19E-06	1.04E-02	< 8.71E-06	1.38E-02	< 7.58E-06
Total POM (mg/m³)	8.62	17.78	13.74	5.57	11.90	14.32	11.42	12.56
Total POM(lbs/hr)	7.35E-02	1.51E-01	1.11E-01	4.89E-02	9.31E-02	1.25E-01	9.27E-02	1.08E-01
Total POM (lb/lb rubber removed) Detected	5.59E-04	1.15E-03	9.79E-04	4.30E-04	9.20E-04	1.24E-03	8.19E-04	9.38E-04
Total PM (mg/m³)	8810.7	18.0	8075.5	15.3	6531.6	16.2	7805.9	16.5
Total PM (lbs/hr)	7.46E+01	1.53E-01	6.46E+01	1.32E-01	5.08E+01	1.40E-01	6.33E+01	1.42E-01
Total PM (lb/lb rubber removed) Detected	5.67E-01	1.16E-03	5.68E-01	1.16E-03	5.02E-01	1.38E-03	5.45E-01	1.23E-03

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TABLE F.2-2
CARCASS GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (µg/m³)									
Pyridine	110-86-1	< 28.22	< 3.99	< 28.17	< 4.49	< 29.87	< 4.61	< 28.75	< 4.36
Phenol	108-95-2	< 12.71	3.12	19.28	5.38	40.88	1.26	< 24.29	3.25
bis(2-Chloroethyl)ether	111-44-4	< 16.96	< 3.16	< 16.93	< 3.55	< 17.95	< 3.64	< 17.28	< 3.45
2-Chlorophenol	95-57-8	< 11.17	< 2.59	< 11.15	< 2.70	< 11.82	< 2.77	< 11.38	< 2.69
1,3-Dichlorobenzene	541-73-1	< 10.18	< 2.38	< 10.16	< 2.41	< 10.77	< 2.48	< 10.37	< 2.42
1,4-Dichlorobenzene	106-46-7	< 9.84	< 2.29	< 9.83	< 2.30	< 10.41	< 2.36	< 10.03	< 2.32
1,2-Dichlorobenzene	95-50-1	< 10.65	< 2.44	< 10.63	< 2.52	< 11.27	< 2.59	< 10.85	< 2.52
2,2'-oxybis(1-Chloropropane)	108-60-1	< 18.23	< 3.31	< 18.20	< 3.77	< 19.30	< 3.87	< 18.58	< 3.65
Benzyl alcohol	100-51-6	< 19.30	< 3.94	< 19.26	< 4.28	< 20.42	< 4.39	< 19.66	< 4.20
2-Methylphenol	95-48-7	< 14.80	< 2.96	< 14.78	< 3.16	< 15.67	< 3.24	< 15.08	< 3.12
3/4-Methylphenol	108-39-4/106-4	< 14.24	< 2.74	< 14.22	< 2.94	< 15.07	< 3.02	< 14.51	< 2.90
N-Nitroso-di-n-propylamine	621-64-7	< 24.01	< 4.54	< 23.97	< 5.10	< 25.42	< 5.24	< 24.47	< 4.96
Hexachloroethane	67-72-1	< 20.50	< 4.78	< 20.46	< 5.00	< 21.70	< 5.13	< 20.89	< 4.97
Nitrobenzene	98-95-3	< 13.58	< 2.59	< 13.26	< 3.00	< 13.95	< 3.08	< 13.59	< 2.89
Isophorone	78-59-1	< 7.65	< 1.36	< 7.47	< 1.61	< 7.85	< 1.65	< 7.66	< 1.54
2-Nitrophenol	88-75-5	< 19.02	< 4.04	< 18.57	< 4.45	< 19.53	< 4.56	< 19.04	< 4.35
2,4-Dimethylphenol	105-67-9	< 15.19	< 2.91	< 14.83	< 3.04	< 15.60	< 3.11	< 15.21	< 3.02
bis(2-Chloroethoxy)methane	111-91-1	< 14.56	< 2.45	< 14.22	< 2.75	< 14.95	< 2.82	< 14.58	< 2.67
Benzoic acid	65-85-0	42.39	10.96	41.25	< 5.70	47.04	< 5.83	43.56	< 7.50
2,4-Dichlorophenol	120-83-2	< 13.41	< 2.80	< 13.08	< 3.00	< 13.77	< 3.08	< 13.42	< 2.96
1,2,4-Trichlorobenzene	120-82-1	< 12.27	< 2.46	< 11.99	< 2.67	< 12.60	< 2.73	< 12.29	< 2.62
Naphthalene	91-20-3	8.25	1.67	7.82	1.14	8.37	1.59	8.15	1.47
4-Chloroaniline	106-47-8	< 10.15	< 2.13	< 9.91	< 2.42	< 10.43	< 2.48	< 10.16	< 2.34
Hexachlorobutadiene	87-68-3	< 19.20	< 4.03	< 18.74	< 4.25	< 19.71	< 4.36	< 19.22	< 4.21
4-Chloro-3-methylphenol	59-50-7	< 16.25	< 3.02	< 15.86	< 3.31	< 16.68	< 3.39	< 16.26	< 3.24
2-Methylnaphthalene	91-57-6	2.99	1.54	10.02	0.90	10.24	0.84	7.75	1.09
Hexachlorocyclopentadiene	77-47-4	< 17.16	< 4.07	< 16.09	< 4.63	< 16.88	< 4.87	< 16.71	< 4.52
2,4,6-Trichlorophenol	88-06-2	< 18.87	< 3.73	< 17.68	< 4.07	< 18.55	< 4.28	< 18.36	< 4.03
2,4,5-Trichlorophenol	95-95-4	< 17.93	< 3.63	< 16.80	< 3.97	< 17.63	< 4.18	< 17.45	< 3.93
2-Chloronaphthalene	91-58-7	< 6.33	< 1.30	< 5.93	< 1.38	< 6.22	< 1.44	< 6.16	< 1.37
2-Nitroaniline	88-74-4	< 25.53	< 5.01	< 23.92	< 5.44	< 25.10	< 5.71	< 24.85	< 5.39
Dimethylphthalate	131-11-3	< 5.40	< 1.08	< 5.05	< 1.14	< 5.30	< 1.20	< 5.25	< 1.14
2,6-Dinitrotoluene	606-20-2	< 22.58	< 4.34	< 21.16	< 4.56	< 22.20	< 4.79	< 21.98	< 4.56
2,4-Dinitrotoluene	121-14-2	< 17.33	< 3.24	< 16.24	< 3.41	< 17.04	< 3.58	< 16.87	< 3.41
Acenaphthylene	208-96-8	< 3.84	< 0.83	< 3.59	< 0.85	< 3.77	0.92	< 3.74	< 0.87
3-Nitroaniline	99-09-2	< 21.89	< 4.57	< 20.52	< 4.96	< 21.53	< 5.21	< 21.31	< 4.91
Acenaphthene	83-32-9	< 7.05	< 1.41	< 6.61	< 1.48	< 6.93	< 1.56	< 6.86	< 1.48
2,4-Dinitrophenol	105-67-9	< 54.73	< 9.69	< 51.30	< 11.89	< 53.82	< 12.49	< 53.29	< 11.35
4-Nitrophenol	100-02-7	< 39.92	< 9.82	< 37.41	< 9.10	< 39.25	< 9.56	< 38.86	< 9.49
Dibenzofuran	132-64-9	1.81	0.15	2.15	< 0.95	2.65	0.20	2.20	< 0.43
Diethylphthalate	84-66-2	< 5.16	0.66	< 4.83	< 1.03	< 5.07	0.47	< 5.02	< 0.72
4-Chlorophenyl-phenylether	70005-72-3	< 11.67	< 2.29	< 10.94	< 2.50	< 11.48	< 2.63	< 11.36	< 2.47
Fluorene	86-73-7	4.00	0.48	5.26	0.45	6.28	0.32	5.18	0.42
4-Nitroaniline	100-01-6	< 24.24	< 4.99	< 22.72	< 5.28	< 23.84	< 5.55	< 23.60	< 5.28
4,6-Dinitro-2-methylphenol	534-52-1	< 43.76	< 7.40	< 36.01	< 8.61	< 37.67	< 8.81	< 39.15	< 8.28
4-Bromophenyl-phenylether	101-55-3	< 25.67	< 4.42	< 21.13	< 4.89	< 22.10	< 5.00	< 22.97	< 4.77
Hexachlorobenzene	118-74-1	< 20.40	< 3.41	< 16.79	< 3.75	< 17.57	< 3.84	< 18.25	< 3.67
Pentachlorophenol	87-86-5	< 36.81	< 6.00	< 30.30	< 7.20	< 31.69	< 7.37	< 32.93	< 6.86
Phenanthrene	85-01-8	36.69	3.34	50.97	4.14	56.24	3.74	47.97	3.74
Anthracene	120-12-7	4.91	< 0.98	4.83	< 1.03	< 4.83	< 1.05	< 4.86	< 1.02
Di-n-butylphthalate	84-74-2	< 3.84	13.43	74.74	0.11	16.14	9.88	< 31.57	7.80
Fluoranthene	206-44-0	62.16	3.59	84.00	4.07	91.07	3.99	79.08	3.89
Pyrene	129-00-0	177.77	12.82	238.40	15.29	236.29	17.09	217.49	15.07
Butylbenzylphthalate	85-68-7	< 9.35	1.02	< 7.14	< 2.92	< 6.86	1.10	< 7.78	< 1.68
3,3'-Dichlorobenzidine	91-94-1	< 19.37	< 7.22	< 14.79	< 8.59	< 14.20	< 8.99	< 16.12	< 8.27
bis(2-Ethylhexyl)phthalate	117-81-7	83.95	8.16	106.83	7.51	138.38	6.62	109.72	7.43
Benzo(a)anthracene	56-55-3	< 6.49	< 2.21	< 4.96	< 2.37	< 4.76	< 2.48	< 5.40	< 2.35

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TABLE F.2-2
CARCASS GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (µg/m³)									
Chrysene	218-01-9	< 6.68	< 2.47	< 5.10	< 2.67	57.32	< 2.80	< 23.03	< 2.65
Di-n-octylphthalate	117-84-0	< 4.61	< 1.64	< 4.52	< 1.70	< 4.23	< 1.69	< 4.45	< 1.68
Benzo(b)fluoranthene	205-99-2	< 6.92	< 2.64	< 6.77	< 3.11	< 6.35	< 3.09	< 6.68	< 2.95
Benzo(k)fluoranthene	207-08-9	< 7.36	< 2.72	< 7.19	< 3.26	< 6.75	< 3.23	< 7.10	< 3.07
Benzo(a)pyrene	50-32-8	< 7.72	< 3.16	< 7.55	< 3.83	47.37	< 3.81	< 20.88	< 3.60
Indeno(1,2,3-cd)pyrene	193-39-5	< 7.40	< 4.11	< 7.23	< 4.63	< 6.79	< 4.59	< 7.14	< 4.44
Dibenz(a,h)anthracene	53-90-3	< 9.38	< 4.90	< 9.17	< 6.02	< 8.60	< 5.97	< 9.05	< 5.63
Benzo(g,h,i)perylene	191-24-2	28.59	< 4.31	25.40	< 5.43	44.18	< 5.39	32.72	< 5.04
n-Nitrosodimethylamine	62-75-9	< 58.72	< 8.79	< 58.61	< 8.44	< 62.14	< 8.66	< 59.82	< 8.63
Cumene	98-82-8	< 6.50	< 1.41	< 6.49	< 1.36	< 6.88	< 1.39	< 6.62	< 1.39
Aniline	62-53-3	229.76	10.56	194.12	8.94	391.76	22.39	271.88	13.96
Benzyl Chloride	100-44-7	< 8.67	< 1.89	< 8.65	< 1.81	< 9.17	< 1.86	< 8.83	< 1.85
Acetophenone	98-86-2	< 12.97	2.70	6.83	2.48	15.82	2.66	< 11.87	2.61
n-Nitrosomorpholine	59-89-2	< 25.61	< 5.02	< 25.57	< 4.82	< 27.11	< 4.94	< 26.10	< 4.93
o-Toluidine	95-53-4	38.47	< 2.24	26.21	< 2.15	42.15	4.79	35.61	< 3.06
N,N-Dimethylaniline	121-69-7	< 10.03	< 2.10	< 9.79	< 2.05	< 10.30	< 2.10	< 10.04	< 2.08
1,2-Dibromo-3-chloropropane	96-12-8	< 24.97	< 6.09	< 24.92	< 5.85	< 26.42	< 6.00	< 25.44	< 5.98
o-Anisidine	90-04-0	< 19.83	< 4.27	< 19.36	< 4.18	< 20.36	< 4.28	< 19.85	< 4.24
1,4-Phenylenediamine	106-50-3	< 31.75	< 5.65	< 31.00	< 5.53	< 32.61	< 5.67	< 31.79	< 5.62
N,N-Diethylaniline	91-66-7	< 7.70	< 1.68	< 7.69	< 1.61	< 8.16	< 1.66	< 7.85	< 1.65
a,a,a-Trichlorotoluene	98-07-7	< 9.08	< 2.17	< 8.87	< 2.12	< 9.33	< 2.17	< 9.09	< 2.15
Hydroquinone	123-31-9	< 25.44	< 4.25	< 24.83	< 4.16	< 26.12	< 4.26	< 25.47	< 4.22
2-Chloroacetophenone	1341-24-8	< 6.98	< 1.50	< 6.81	< 1.47	< 7.17	1.07	< 6.99	< 1.35
Biphenyl	92-52-4	< 7.07	< 1.39	< 6.63	< 1.32	< 6.95	< 1.38	< 6.88	< 1.36
Trifluralin	1582-09-8	< 40.59	< 6.78	< 38.04	< 6.41	< 39.91	< 6.73	< 39.51	< 6.64
4-Aminobiphenyl	92-67-1	< 8.86	< 1.78	< 7.29	< 1.72	< 7.63	< 1.77	< 7.93	< 1.76
Pentachloronitrobenzene	82-68-8	< 53.93	< 10.67	< 44.38	< 10.33	< 46.43	< 10.57	< 48.25	< 10.52
4-Nitrobiphenyl	92-93-3	< 18.31	< 3.59	< 15.07	< 3.47	< 15.76	< 3.55	< 16.38	< 3.54
Benzidine	92-87-5	< 18.16	< 4.48	< 13.87	< 4.57	< 13.32	< 4.78	< 15.12	< 4.61
4,4'-Methylenedianiline	101-77-9	< 23.66	< 7.68	< 18.07	< 7.84	< 17.35	< 8.21	< 19.69	< 7.91
Dimethylaminoazobenzene	60-11-7	< 22.84	< 6.09	< 17.43	< 6.22	< 16.75	< 6.51	< 19.01	< 6.27
3,3'-Dimethylbenzidine	119-93-7	< 11.74	< 4.07	< 8.96	< 4.16	< 8.61	< 4.35	< 9.77	< 4.19
3,3'-Dimethoxybenzidine	119-90-4	< 23.03	< 10.77	< 17.59	< 10.99	< 16.90	< 11.51	< 19.17	< 11.09
Methylene bis-chloroaniline	101-14-4	< 35.59	< 15.19	< 27.18	< 15.50	< 26.11	< 16.23	< 29.62	< 15.64
3-Furaldehyde	498-60-2	< 32.07	< 6.24	< 32.02	< 6.21	< 33.95	< 6.38	< 32.68	< 6.28
2-Furaldehyde	98-01-1	< 24.66	< 5.64	< 24.62	< 5.37	< 26.09	< 5.51	< 25.12	< 5.51
Cyclohexylamine	108-91-8	2459.87	20.17	9787.75	11.97	7214.37	38.47	6487.33	23.54
N-Nitrosodiethylamine	55-18-5	< 34.21	< 7.07	< 34.15	< 7.00	< 36.21	< 7.19	< 34.86	< 7.08
Cyclohexanone	108-94-1	164.50	28.68	257.69	15.44	251.12	10.27	224.44	18.13
1,3-Cyclooctadiene	1700-10-3	< 15.55	< 3.61	< 15.53	< 3.54	< 16.46	< 3.63	< 15.85	< 3.59
1,5-Cyclooctadiene	111-78-4	< 35.35	< 8.17	< 35.28	< 7.98	< 37.41	< 8.19	< 36.01	< 8.11
Camphene	79-92-5	< 17.72	< 3.94	< 17.69	< 3.92	< 18.75	< 4.03	< 18.05	< 3.96
Benzaldehyde	100-52-7	< 21.79	3.79	< 21.75	3.61	< 23.06	2.50	< 22.20	3.30
Benzonitrile	100-47-0	< 7.62	< 1.68	< 7.60	< 1.67	< 8.05	< 1.71	< 7.76	< 1.68
Isooctanol	26952-21-6	< 227.15	< 40.03	< 226.76	< 41.06	< 240.41	< 42.16	< 231.44	< 41.08
1,2,4-Trimethylbenzene	95-63-6	< 6.78	1.64	< 6.77	0.87	< 7.18	1.15	< 6.91	1.22
3-Methylstyrene	100-80-1	< 10.59	< 2.46	< 10.58	< 2.43	< 11.21	< 2.50	< 10.79	< 2.46
4-Methylstyrene	622-97-9	< 11.81	< 2.64	< 11.79	< 2.58	< 12.50	< 2.64	< 12.04	< 2.62
4-Chlorostyrene	1073-67-2	< 12.23	< 2.98	< 12.21	< 3.01	< 12.94	< 3.09	< 12.46	< 3.03
1-Dodecene	112-41-4	< 76.79	< 13.64	< 74.95	< 14.51	< 78.85	< 14.86	< 76.86	< 14.33
Phthalimide	85-41-6	990.42	8.41	1028.22	42.30	559.61	41.78	859.42	30.83
Diphenylamine	122-39-4	56.05	7.86	98.99	8.41	86.34	8.07	80.46	8.11
Total Detected		4392.56	144.76	12070.75	133.01	9363.63	181.16	8608.98	152.98
Total with non-detects		< 6306.38	< 546.89	< 13844.65	< 565.43	< 11209.97	< 617.24	< 10453.67	< 576.52

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TABLE F.2-2
CARCASS GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (lb/hr)									
Pyridine	110-86-1	< 2.40E-04	< 3.45E-05	< 2.29E-04	< 3.91E-05	< 2.35E-04	< 4.03E-05	< 2.35E-04	< 3.80E-05
Phenol	108-95-2	< 1.08E-04	2.70E-05	1.57E-04	4.68E-05	3.22E-04	1.10E-05	< 1.96E-04	2.83E-05
bis(2-Chloroethyl)ether	111-44-4	< 1.44E-04	< 2.73E-05	< 1.38E-04	< 3.09E-05	< 1.41E-04	< 3.19E-05	< 1.41E-04	< 3.00E-05
2-Chlorophenol	95-57-8	< 9.49E-05	< 2.24E-05	< 9.08E-05	< 2.35E-05	< 9.30E-05	< 2.42E-05	< 9.29E-05	< 2.34E-05
1,3-Dichlorobenzene	541-73-1	< 8.65E-05	< 2.05E-05	< 8.28E-05	< 2.10E-05	< 8.48E-05	< 2.17E-05	< 8.47E-05	< 2.11E-05
1,4-Dichlorobenzene	106-46-7	< 8.37E-05	< 1.98E-05	< 8.00E-05	< 2.00E-05	< 8.20E-05	< 2.07E-05	< 8.19E-05	< 2.02E-05
1,2-Dichlorobenzene	95-50-1	< 9.05E-05	< 2.11E-05	< 8.66E-05	< 2.20E-05	< 8.87E-05	< 2.27E-05	< 8.86E-05	< 2.19E-05
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.55E-04	< 2.87E-05	< 1.48E-04	< 3.29E-05	< 1.52E-04	< 3.39E-05	< 1.52E-04	< 3.18E-05
Benzyl alcohol	100-51-6	< 1.64E-04	< 3.41E-05	< 1.57E-04	< 3.73E-05	< 1.61E-04	< 3.84E-05	< 1.61E-04	< 3.66E-05
2-Methylphenol	95-48-7	< 1.26E-04	< 2.56E-05	< 1.20E-04	< 2.75E-05	< 1.23E-04	< 2.83E-05	< 1.23E-04	< 2.71E-05
3/4-Methylphenol	108-39-4/106-4	< 1.21E-04	< 2.37E-05	< 1.16E-04	< 2.56E-05	< 1.19E-04	< 2.64E-05	< 1.18E-04	< 2.52E-05
N-Nitroso-di-n-propylamine	621-64-7	< 2.04E-04	< 3.93E-05	< 1.95E-04	< 4.44E-05	< 2.00E-04	< 4.58E-05	< 2.00E-04	< 4.32E-05
Hexachloroethane	67-72-1	< 1.74E-04	< 4.14E-05	< 1.67E-04	< 4.35E-05	< 1.71E-04	< 4.49E-05	< 1.71E-04	< 4.33E-05
Nitrobenzene	98-95-3	< 1.15E-04	< 2.24E-05	< 1.08E-04	< 2.61E-05	< 1.10E-04	< 2.69E-05	< 1.11E-04	< 2.52E-05
Isophorone	78-59-1	< 6.51E-05	< 1.18E-05	< 6.08E-05	< 1.40E-05	< 6.18E-05	< 1.44E-05	< 6.26E-05	< 1.34E-05
2-Nitrophenol	88-75-5	< 1.62E-04	< 3.50E-05	< 1.51E-04	< 3.88E-05	< 1.54E-04	< 3.99E-05	< 1.56E-04	< 3.79E-05
2,4-Dimethylphenol	105-67-9	< 1.29E-04	< 2.52E-05	< 1.21E-04	< 2.65E-05	< 1.23E-04	< 2.72E-05	< 1.24E-04	< 2.63E-05
bis(2-Chloroethoxy)methane	111-91-1	< 1.24E-04	< 2.12E-05	< 1.16E-04	< 2.40E-05	< 1.18E-04	< 2.47E-05	< 1.19E-04	< 2.33E-05
Benzoic acid	65-85-0	3.60E-04	9.48E-05	3.36E-04	< 4.96E-05	3.70E-04	< 5.11E-05	3.56E-04	< 6.52E-05
2,4-Dichlorophenol	120-83-2	< 1.14E-04	< 2.42E-05	< 1.07E-04	< 2.61E-05	< 1.08E-04	< 2.69E-05	< 1.10E-04	< 2.58E-05
1,2,4-Trichlorobenzene	120-82-1	< 1.04E-04	< 2.13E-05	< 9.76E-05	< 2.32E-05	< 9.92E-05	< 2.39E-05	< 1.00E-04	< 2.28E-05
Naphthalene	91-20-3	7.01E-05	1.44E-05	6.37E-05	9.89E-06	6.59E-05	1.39E-05	6.66E-05	1.28E-05
4-Chloroaniline	106-47-8	< 8.63E-05	< 1.84E-05	< 8.07E-05	< 2.10E-05	< 8.21E-05	< 2.17E-05	< 8.30E-05	< 2.04E-05
Hexachlorobutadiene	87-68-3	< 1.63E-04	< 3.48E-05	< 1.53E-04	< 3.70E-05	< 1.55E-04	< 3.81E-05	< 1.57E-04	< 3.67E-05
4-Chloro-3-methylphenol	59-50-7	< 1.38E-04	< 2.61E-05	< 1.29E-04	< 2.88E-05	< 1.31E-04	< 2.97E-05	< 1.33E-04	< 2.82E-05
2-Methylnaphthalene	91-57-6	2.54E-05	1.33E-05	8.16E-05	7.81E-06	8.06E-05	7.38E-06	6.25E-05	9.49E-06
Hexachlorocyclopentadiene	77-47-4	< 1.46E-04	< 3.52E-05	< 1.31E-04	< 4.04E-05	< 1.33E-04	< 4.26E-05	< 1.37E-04	< 3.94E-05
2,4,6-Trichlorophenol	88-06-2	< 1.60E-04	< 3.23E-05	< 1.44E-04	< 3.55E-05	< 1.46E-04	< 3.74E-05	< 1.50E-04	< 3.51E-05
2,4,5-Trichlorophenol	95-95-4	< 1.52E-04	< 3.14E-05	< 1.37E-04	< 3.46E-05	< 1.39E-04	< 3.66E-05	< 1.43E-04	< 3.42E-05
2-Chloronaphthalene	91-58-7	< 5.38E-05	< 1.13E-05	< 4.83E-05	< 1.20E-05	< 4.90E-05	< 1.26E-05	< 5.04E-05	< 1.20E-05
2-Nitroaniline	88-74-4	< 2.17E-04	< 4.33E-05	< 1.95E-04	< 4.74E-05	< 1.98E-04	< 5.00E-05	< 2.03E-04	< 4.69E-05
Dimethylphthalate	131-11-3	< 4.59E-05	< 9.38E-06	< 4.12E-05	< 9.89E-06	< 4.18E-05	< 1.05E-05	< 4.29E-05	< 9.92E-06
2,6-Dinitrotoluene	606-20-2	< 1.92E-04	< 3.75E-05	< 1.72E-04	< 3.97E-05	< 1.75E-04	< 4.19E-05	< 1.80E-04	< 3.97E-05
2,4-Dinitrotoluene	121-14-2	< 1.47E-04	< 2.80E-05	< 1.32E-04	< 2.97E-05	< 1.34E-04	< 3.14E-05	< 1.38E-04	< 2.97E-05
Acenaphthylene	208-96-8	< 3.26E-05	< 7.17E-06	< 2.93E-05	< 7.39E-06	< 2.97E-05	8.06E-06	< 3.05E-05	< 7.54E-06
3-Nitroaniline	99-09-2	< 1.86E-04	< 3.95E-05	< 1.67E-04	< 4.32E-05	< 1.70E-04	< 4.56E-05	< 1.74E-04	< 4.28E-05
Acenaphthene	83-32-9	< 5.99E-05	< 1.22E-05	< 5.38E-05	< 1.29E-05	< 5.46E-05	< 1.36E-05	< 5.61E-05	< 1.29E-05
2,4-Dinitrophenol	105-67-9	< 4.65E-04	< 8.38E-05	< 4.18E-04	< 1.04E-04	< 4.24E-04	< 1.09E-04	< 4.36E-04	< 9.89E-05
4-Nitrophenol	100-02-7	< 3.39E-04	< 8.49E-05	< 3.05E-04	< 7.93E-05	< 3.09E-04	< 8.37E-05	< 3.18E-04	< 8.26E-05
Dibenzofuran	132-64-9	1.54E-05	1.32E-06	1.75E-05	< 8.28E-06	2.09E-05	1.73E-06	1.79E-05	< 3.78E-06
Diethylphthalate	84-66-2	< 4.38E-05	5.69E-06	< 3.93E-05	< 8.96E-06	< 3.99E-05	4.14E-06	< 4.10E-05	< 6.26E-06
4-Chlorophenyl-phenylether	70005-72-3	< 9.92E-05	< 1.98E-05	< 8.91E-05	< 2.18E-05	< 9.04E-05	< 2.30E-05	< 9.29E-05	< 2.15E-05
Fluorene	86-73-7	3.40E-05	4.16E-06	4.28E-05	3.91E-06	4.95E-05	2.83E-06	4.21E-05	3.63E-06
4-Nitroaniline	100-01-6	< 2.06E-04	< 4.32E-05	< 1.85E-04	< 4.60E-05	< 1.88E-04	< 4.86E-05	< 1.93E-04	< 4.59E-05
4,6-Dinitro-2-methylphenol	534-52-1	< 3.72E-04	< 6.40E-05	< 2.93E-04	< 7.50E-05	< 2.97E-04	< 7.71E-05	< 3.21E-04	< 7.20E-05
4-Bromophenyl-phenylether	101-55-3	< 2.18E-04	< 3.82E-05	< 1.72E-04	< 4.26E-05	< 1.74E-04	< 4.38E-05	< 1.88E-04	< 4.15E-05
Hexachlorobenzene	118-74-1	< 1.73E-04	< 2.95E-05	< 1.37E-04	< 3.27E-05	< 1.38E-04	< 3.36E-05	< 1.49E-04	< 3.19E-05
Pentachlorophenol	87-86-5	< 3.13E-04	< 5.19E-05	< 2.47E-04	< 6.27E-05	< 2.50E-04	< 6.45E-05	< 2.70E-04	< 5.97E-05
Phenanthrene	85-01-8	3.12E-04	2.89E-05	4.15E-04	3.60E-05	4.43E-04	3.27E-05	3.90E-04	3.25E-05
Anthracene	120-12-7	4.18E-05	< 8.48E-06	3.93E-05	< 8.96E-06	< 3.80E-05	< 9.22E-06	< 3.97E-05	< 8.89E-06
Di-n-butylphthalate	84-74-2	< 3.26E-05	1.16E-04	6.09E-04	9.37E-07	1.27E-04	8.65E-05	< 2.56E-04	6.78E-05
Fluoranthene	206-44-0	5.28E-04	3.11E-05	6.84E-04	3.55E-05	7.17E-04	3.49E-05	6.43E-04	3.38E-05
Pyrene	129-00-0	1.51E-03	1.11E-04	1.94E-03	1.33E-04	1.86E-03	1.50E-04	1.77E-03	1.31E-04
Butylbenzylphthalate	85-68-7	< 7.95E-05	8.80E-06	< 5.82E-05	< 2.54E-05	< 5.40E-05	9.58E-06	< 6.39E-05	< 1.46E-05
3,3'-Dichlorobenzidine	91-94-1	< 1.65E-04	< 6.25E-05	< 1.20E-04	< 7.48E-05	< 1.12E-04	< 7.87E-05	< 1.32E-04	< 7.20E-05
bis(2-Ethylhexyl)phthalate	117-81-7	7.14E-04	7.05E-05	8.70E-04	6.54E-05	1.09E-03	5.79E-05	8.91E-04	6.46E-05
Benzo(a)anthracene	56-55-3	< 5.52E-05	< 1.91E-05	< 4.04E-05	< 2.07E-05	< 3.75E-05	< 2.17E-05	< 4.43E-05	< 2.05E-05

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TABLE F.2-2
CARCASS GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (lb/hr)									
Chrysene	218-01-9	< 5.68E-05	< 2.13E-05	< 4.15E-05	< 2.33E-05	4.51E-04	< 2.45E-05	< 1.83E-04	< 2.30E-05
Di-n-octylphthalate	117-84-0	< 3.92E-05	< 1.42E-05	< 3.68E-05	< 1.48E-05	< 3.33E-05	< 1.48E-05	< 3.64E-05	< 1.46E-05
Benzo(b)fluoranthene	205-99-2	< 5.88E-05	< 2.29E-05	< 5.51E-05	< 2.71E-05	< 5.00E-05	< 2.70E-05	< 5.46E-05	< 2.57E-05
Benzo(k)fluoranthene	207-08-9	< 6.26E-05	< 2.35E-05	< 5.86E-05	< 2.84E-05	< 5.31E-05	< 2.83E-05	< 5.81E-05	< 2.67E-05
Benzo(a)pyrene	50-32-8	< 6.56E-05	< 2.73E-05	< 6.15E-05	< 3.34E-05	3.73E-04	< 3.33E-05	< 1.67E-04	< 3.13E-05
Indeno(1,2,3-cd)pyrene	193-39-5	< 6.29E-05	< 3.55E-05	< 5.89E-05	< 4.03E-05	< 5.35E-05	< 4.02E-05	< 5.84E-05	< 3.87E-05
Dibenz(a,h)anthracene	53-90-3	< 7.97E-05	< 4.24E-05	< 7.47E-05	< 5.24E-05	< 6.77E-05	< 5.23E-05	< 7.40E-05	< 4.90E-05
Benzo(g,h,i)perylene	191-24-2	2.43E-04	< 3.73E-05	2.07E-04	< 4.73E-05	3.48E-04	< 4.71E-05	2.66E-04	< 4.39E-05
n-Nitrosodimethylamine	62-75-9	< 4.99E-04	< 7.60E-05	< 4.77E-04	< 7.35E-05	< 4.89E-04	< 7.58E-05	< 4.89E-04	< 7.51E-05
Cumene	98-82-8	< 5.52E-05	< 1.22E-05	< 5.28E-05	< 1.18E-05	< 5.42E-05	< 1.21E-05	< 5.41E-05	< 1.21E-05
Aniline	62-53-3	1.95E-03	9.14E-05	1.58E-03	7.79E-05	3.08E-03	1.96E-04	2.21E-03	1.22E-04
Benzyl Chloride	100-44-7	< 7.37E-05	< 1.63E-05	< 7.04E-05	< 1.58E-05	< 7.22E-05	< 1.63E-05	< 7.21E-05	< 1.61E-05
Acetophenone	98-86-2	< 1.10E-04	2.34E-05	5.56E-05	2.16E-05	1.25E-04	2.32E-05	< 9.68E-05	2.28E-05
n-Nitrosomorpholine	59-89-2	< 2.18E-04	< 4.34E-05	< 2.08E-04	< 4.20E-05	< 2.13E-04	< 4.33E-05	< 2.13E-04	< 4.29E-05
o-Toluidine	95-53-4	3.27E-04	< 1.93E-05	2.13E-04	< 1.87E-05	3.32E-04	4.19E-05	2.91E-04	< 2.66E-05
N,N-Dimethylaniline	121-69-7	< 8.53E-05	< 1.81E-05	< 7.98E-05	< 1.79E-05	< 8.11E-05	< 1.84E-05	< 8.20E-05	< 1.81E-05
1,2-Dibromo-3-chloropropane	96-12-8	< 2.12E-04	< 5.27E-05	< 2.03E-04	< 5.09E-05	< 2.08E-04	< 5.25E-05	< 2.08E-04	< 5.20E-05
o-Anisidine	90-04-0	< 1.69E-04	< 3.69E-05	< 1.58E-04	< 3.64E-05	< 1.60E-04	< 3.74E-05	< 1.62E-04	< 3.69E-05
1,4-Phenylenediamine	106-50-3	< 2.70E-04	< 4.89E-05	< 2.52E-04	< 4.82E-05	< 2.57E-04	< 4.96E-05	< 2.60E-04	< 4.89E-05
N,N-Diethylaniline	91-66-7	< 6.55E-05	< 1.45E-05	< 6.27E-05	< 1.41E-05	< 6.42E-05	< 1.45E-05	< 6.41E-05	< 1.44E-05
a,a,a-Trichlorotoluene	98-07-7	< 7.72E-05	< 1.88E-05	< 7.22E-05	< 1.85E-05	< 7.34E-05	< 1.90E-05	< 7.43E-05	< 1.88E-05
Hydroquinone	123-31-9	< 2.16E-04	< 3.68E-05	< 2.02E-04	< 3.62E-05	< 2.06E-04	< 3.73E-05	< 2.08E-04	< 3.68E-05
2-Chloroacetophenone	1341-24-8	< 5.93E-05	< 1.30E-05	< 5.55E-05	< 1.28E-05	< 5.65E-05	9.37E-06	< 5.71E-05	< 1.17E-05
Biphenyl	92-52-4	< 6.01E-05	< 1.20E-05	< 5.40E-05	< 1.15E-05	< 5.47E-05	< 1.21E-05	< 5.63E-05	< 1.19E-05
Trifluralin	1582-09-8	< 3.45E-04	< 5.86E-05	< 3.10E-04	< 5.58E-05	< 3.14E-04	< 5.89E-05	< 3.23E-04	< 5.78E-05
4-Aminobiphenyl	92-67-1	< 7.53E-05	< 1.54E-05	< 5.94E-05	< 1.50E-05	< 6.01E-05	< 1.54E-05	< 6.49E-05	< 1.53E-05
Pentachloronitrobenzene	82-68-8	< 4.58E-04	< 9.23E-05	< 3.61E-04	< 9.00E-05	< 3.66E-04	< 9.25E-05	< 3.95E-04	< 9.16E-05
4-Nitrobiphenyl	92-93-3	< 1.56E-04	< 3.10E-05	< 1.23E-04	< 3.03E-05	< 1.24E-04	< 3.11E-05	< 1.34E-04	< 3.08E-05
Benzidine	92-87-5	< 1.54E-04	< 3.87E-05	< 1.13E-04	< 3.98E-05	< 1.05E-04	< 4.18E-05	< 1.24E-04	< 4.01E-05
4,4'-Methylenedianiline	101-77-9	< 2.01E-04	< 6.64E-05	< 1.47E-04	< 6.83E-05	< 1.37E-04	< 7.18E-05	< 1.62E-04	< 6.89E-05
Dimethylaminoazobenzene	60-11-7	< 1.94E-04	< 5.27E-05	< 1.42E-04	< 5.42E-05	< 1.32E-04	< 5.70E-05	< 1.56E-04	< 5.46E-05
3,3'-Dimethylbenzidine	119-93-7	< 9.98E-05	< 3.52E-05	< 7.30E-05	< 3.62E-05	< 6.78E-05	< 3.81E-05	< 8.02E-05	< 3.65E-05
3,3'-Dimethoxybenzidine	119-90-4	< 1.96E-04	< 9.32E-05	< 1.43E-04	< 9.57E-05	< 1.33E-04	< 1.01E-04	< 1.57E-04	< 9.65E-05
Methylene bis-chloroaniline	101-14-4	< 3.02E-04	< 1.31E-04	< 2.21E-04	< 1.35E-04	< 2.06E-04	< 1.42E-04	< 2.43E-04	< 1.36E-04
3-Furaldehyde	498-60-2	< 2.73E-04	< 5.40E-05	< 2.61E-04	< 5.41E-05	< 2.67E-04	< 5.58E-05	< 2.67E-04	< 5.46E-05
2-Furaldehyde	98-01-1	< 2.10E-04	< 4.88E-05	< 2.00E-04	< 4.68E-05	< 2.05E-04	< 4.82E-05	< 2.05E-04	< 4.79E-05
Cyclohexylamine	108-91-8	2.09E-02	1.74E-04	7.97E-02	1.04E-04	5.68E-02	3.37E-04	5.25E-02	2.05E-04
N-Nitrosodiethylamine	55-18-5	< 2.91E-04	< 6.11E-05	< 2.78E-04	< 6.10E-05	< 2.85E-04	< 6.29E-05	< 2.85E-04	< 6.17E-05
Cyclohexanone	108-94-1	1.40E-03	2.48E-04	2.10E-03	1.35E-04	1.98E-03	8.99E-05	1.82E-03	1.57E-04
1,3-Cyclooctadiene	1700-10-3	< 1.32E-04	< 3.12E-05	< 1.26E-04	< 3.08E-05	< 1.30E-04	< 3.18E-05	< 1.29E-04	< 3.13E-05
1,5-Cyclooctadiene	111-78-4	< 3.00E-04	< 7.07E-05	< 2.87E-04	< 6.95E-05	< 2.95E-04	< 7.17E-05	< 2.94E-04	< 7.06E-05
Camphene	79-92-5	< 1.51E-04	< 3.41E-05	< 1.44E-04	< 3.42E-05	< 1.48E-04	< 3.52E-05	< 1.47E-04	< 3.45E-05
Benzaldehyde	100-52-7	< 1.85E-04	3.28E-05	< 1.77E-04	3.15E-05	< 1.82E-04	2.18E-05	< 1.81E-04	2.87E-05
Benzonitrile	100-47-0	< 6.47E-05	< 1.45E-05	< 6.19E-05	< 1.45E-05	< 6.34E-05	< 1.50E-05	< 6.34E-05	< 1.47E-05
Isooctanol	26952-21-6	< 1.93E-03	< 3.46E-04	< 1.85E-03	< 3.58E-04	< 1.89E-03	< 3.69E-04	< 1.89E-03	< 3.58E-04
1,2,4-Trimethylbenzene	95-63-6	< 5.77E-05	1.42E-05	< 5.52E-05	7.60E-06	< 5.66E-05	1.01E-05	< 5.65E-05	1.06E-05
3-Methylstyrene	100-80-1	< 9.00E-05	< 2.13E-05	< 8.61E-05	< 2.12E-05	< 8.83E-05	< 2.18E-05	< 8.82E-05	< 2.14E-05
4-Methylstyrene	622-97-9	< 1.00E-04	< 2.28E-05	< 9.61E-05	< 2.24E-05	< 9.84E-05	< 2.31E-05	< 9.83E-05	< 2.28E-05
4-Chlorostyrene	1073-67-2	< 1.04E-04	< 2.58E-05	< 9.94E-05	< 2.62E-05	< 1.02E-04	< 2.71E-05	< 1.02E-04	< 2.64E-05
1-Dodecene	112-41-4	< 6.53E-04	< 1.18E-04	< 6.10E-04	< 1.26E-04	< 6.21E-04	< 1.30E-04	< 6.28E-04	< 1.25E-04
Phthalimide	85-41-6	8.42E-03	7.27E-05	8.37E-03	3.68E-04	4.41E-03	3.66E-04	7.07E-03	2.69E-04
Diphenylamine	122-39-4	4.76E-04	6.80E-05	8.06E-04	7.32E-05	6.80E-04	7.06E-05	6.54E-04	7.06E-05
Total Detected		3.73E-02	1.25E-03	9.83E-02	1.16E-03	7.37E-02	1.59E-03	6.98E-02	1.33E-03
Total with non-detects		< 5.36E-02	< 4.73E-03	< 1.13E-01	< 4.92E-03	< 8.83E-02	< 5.40E-03	< 8.49E-02	< 5.02E-03

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TABLE F.2-2
CARCASS GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (lb/lb rubber removed)									
Pyridine	110-86-1	< 1.82E-06	< 2.62E-07	< 2.02E-06	< 3.44E-07	< 2.32E-06	< 3.98E-07	< 2.05E-06	< 3.35E-07
Phenol	108-95-2	< 8.21E-07	2.05E-07	1.38E-06	4.11E-07	3.18E-06	1.09E-07	< 1.79E-06	2.42E-07
bis(2-Chloroethyl)ether	111-44-4	< 1.09E-06	< 2.07E-07	< 1.21E-06	< 2.71E-07	< 1.40E-06	< 3.15E-07	< 1.23E-06	< 2.65E-07
2-Chlorophenol	95-57-8	< 7.21E-07	< 1.70E-07	< 7.98E-07	< 2.06E-07	< 9.19E-07	< 2.40E-07	< 8.13E-07	< 2.05E-07
1,3-Dichlorobenzene	541-73-1	< 6.57E-07	< 1.56E-07	< 7.27E-07	< 1.84E-07	< 8.38E-07	< 2.14E-07	< 7.41E-07	< 1.85E-07
1,4-Dichlorobenzene	106-46-7	< 6.35E-07	< 1.50E-07	< 7.03E-07	< 1.76E-07	< 8.10E-07	< 2.04E-07	< 7.16E-07	< 1.77E-07
1,2-Dichlorobenzene	95-50-1	< 6.88E-07	< 1.60E-07	< 7.61E-07	< 1.93E-07	< 8.77E-07	< 2.24E-07	< 7.75E-07	< 1.93E-07
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.18E-06	< 2.18E-07	< 1.30E-06	< 2.89E-07	< 1.50E-06	< 3.35E-07	< 1.33E-06	< 2.80E-07
Benzyl alcohol	100-51-6	< 1.25E-06	< 2.59E-07	< 1.38E-06	< 3.28E-07	< 1.59E-06	< 3.80E-07	< 1.40E-06	< 3.22E-07
2-Methylphenol	95-48-7	< 9.56E-07	< 1.95E-07	< 1.06E-06	< 2.42E-07	< 1.22E-06	< 2.80E-07	< 1.08E-06	< 2.39E-07
3/4-Methylphenol	108-39-4/106-4	< 9.19E-07	< 1.80E-07	< 1.02E-06	< 2.25E-07	< 1.17E-06	< 2.61E-07	< 1.04E-06	< 2.22E-07
N-Nitroso-di-n-propylamine	621-64-7	< 1.55E-06	< 2.99E-07	< 1.72E-06	< 3.90E-07	< 1.98E-06	< 4.53E-07	< 1.75E-06	< 3.81E-07
Hexachloroethane	67-72-1	< 1.32E-06	< 3.14E-07	< 1.46E-06	< 3.83E-07	< 1.69E-06	< 4.43E-07	< 1.49E-06	< 3.80E-07
Nitrobenzene	98-95-3	< 8.77E-07	< 1.70E-07	< 9.49E-07	< 2.30E-07	< 1.08E-06	< 2.66E-07	< 9.70E-07	< 2.22E-07
Isophorone	78-59-1	< 4.94E-07	< 8.96E-08	< 5.35E-07	< 1.23E-07	< 6.11E-07	< 1.42E-07	< 5.47E-07	< 1.18E-07
2-Nitrophenol	88-75-5	< 1.23E-06	< 2.66E-07	< 1.33E-06	< 3.41E-07	< 1.52E-06	< 3.94E-07	< 1.36E-06	< 3.34E-07
2,4-Dimethylphenol	105-67-9	< 9.81E-07	< 1.91E-07	< 1.06E-06	< 2.32E-07	< 1.21E-06	< 2.69E-07	< 1.09E-06	< 2.31E-07
bis(2-Chloroethoxy)methane	111-91-1	< 9.40E-07	< 1.61E-07	< 1.02E-06	< 2.10E-07	< 1.16E-06	< 2.44E-07	< 1.04E-06	< 2.05E-07
Benzoic acid	65-85-0	2.74E-06	7.20E-07	2.95E-06	< 4.36E-07	3.66E-06	< 5.04E-07	3.12E-06	< 5.54E-07
2,4-Dichlorophenol	120-83-2	< 8.66E-07	< 1.84E-07	< 9.36E-07	< 2.30E-07	< 1.07E-06	< 2.66E-07	< 9.58E-07	< 2.27E-07
1,2,4-Trichlorobenzene	120-82-1	< 7.92E-07	< 1.62E-07	< 8.58E-07	< 2.04E-07	< 9.81E-07	< 2.36E-07	< 8.77E-07	< 2.01E-07
Naphthalene	91-20-3	5.32E-07	1.10E-07	5.60E-07	8.69E-08	6.51E-07	1.38E-07	5.81E-07	1.11E-07
4-Chloroaniline	106-47-8	< 6.56E-07	< 1.40E-07	< 7.09E-07	< 1.85E-07	< 8.11E-07	< 2.14E-07	< 7.25E-07	< 1.80E-07
Hexachlorobutadiene	87-68-3	< 1.24E-06	< 2.65E-07	< 1.34E-06	< 3.25E-07	< 1.53E-06	< 3.77E-07	< 1.37E-06	< 3.22E-07
4-Chloro-3-methylphenol	59-50-7	< 1.05E-06	< 1.98E-07	< 1.13E-06	< 2.54E-07	< 1.30E-06	< 2.93E-07	< 1.16E-06	< 2.48E-07
2-Methylnaphthalene	91-57-6	1.93E-07	1.01E-07	7.17E-07	6.86E-08	7.97E-07	7.30E-08	5.69E-07	8.08E-08
Hexachlorocyclopentadiene	77-47-4	< 1.11E-06	< 2.67E-07	< 1.15E-06	< 3.55E-07	< 1.31E-06	< 4.21E-07	< 1.19E-06	< 3.48E-07
2,4,6-Trichlorophenol	88-06-2	< 1.22E-06	< 2.45E-07	< 1.27E-06	< 3.12E-07	< 1.44E-06	< 3.70E-07	< 1.31E-06	< 3.09E-07
2,4,5-Trichlorophenol	95-95-4	< 1.16E-06	< 2.39E-07	< 1.20E-06	< 3.04E-07	< 1.37E-06	< 3.61E-07	< 1.24E-06	< 3.01E-07
2-Chloronaphthalene	91-58-7	< 4.09E-07	< 8.56E-08	< 4.24E-07	< 1.05E-07	< 4.84E-07	< 1.25E-07	< 4.39E-07	< 1.05E-07
2-Nitroaniline	88-74-4	< 1.65E-06	< 3.29E-07	< 1.71E-06	< 4.16E-07	< 1.95E-06	< 4.94E-07	< 1.77E-06	< 4.13E-07
Dimethylphthalate	131-11-3	< 3.48E-07	< 7.12E-08	< 3.62E-07	< 8.69E-08	< 4.13E-07	< 1.03E-07	< 3.74E-07	< 8.72E-08
2,6-Dinitrotoluene	606-20-2	< 1.46E-06	< 2.85E-07	< 1.51E-06	< 3.49E-07	< 1.73E-06	< 4.14E-07	< 1.57E-06	< 3.50E-07
2,4-Dinitrotoluene	121-14-2	< 1.12E-06	< 2.13E-07	< 1.16E-06	< 2.61E-07	< 1.33E-06	< 3.10E-07	< 1.20E-06	< 2.61E-07
Acenaphthylene	208-96-8	< 2.48E-07	< 5.44E-08	< 2.57E-07	< 6.50E-08	< 2.94E-07	7.97E-08	< 2.66E-07	< 6.64E-08
3-Nitroaniline	99-09-2	< 1.41E-06	< 3.00E-07	< 1.47E-06	< 3.80E-07	< 1.68E-06	< 4.51E-07	< 1.52E-06	< 3.77E-07
Acenaphthene	83-32-9	< 4.55E-07	< 9.28E-08	< 4.73E-07	< 1.13E-07	< 5.40E-07	< 1.35E-07	< 4.89E-07	< 1.14E-07
2,4-Dinitrophenol	105-67-9	< 3.53E-06	< 6.36E-07	< 3.67E-06	< 9.10E-07	< 4.19E-06	< 1.08E-06	< 3.80E-06	< 8.75E-07
4-Nitrophenol	100-02-7	< 2.58E-06	< 6.45E-07	< 2.68E-06	< 6.96E-07	< 3.05E-06	< 8.27E-07	< 2.77E-06	< 7.23E-07
Dibenzofuran	132-64-9	1.17E-07	1.00E-08	1.54E-07	< 7.28E-08	2.07E-07	1.71E-08	1.59E-07	< 3.33E-08
Diethylphthalate	84-66-2	< 3.33E-07	4.32E-08	< 3.46E-07	< 7.87E-08	< 3.94E-07	4.09E-08	< 3.58E-07	< 5.43E-08
4-Chlorophenyl-phenylether	70005-72-3	< 7.54E-07	< 1.50E-07	< 7.83E-07	< 1.91E-07	< 8.93E-07	< 2.27E-07	< 8.10E-07	< 1.90E-07
Fluorene	86-73-7	2.58E-07	3.16E-08	3.76E-07	3.43E-08	4.89E-07	2.79E-08	3.74E-07	3.13E-08
4-Nitroaniline	100-01-6	< 1.57E-06	< 3.28E-07	< 1.63E-06	< 4.04E-07	< 1.85E-06	< 4.80E-07	< 1.68E-06	< 4.04E-07
4,6-Dinitro-2-methylphenol	534-52-1	< 2.83E-06	< 4.86E-07	< 2.58E-06	< 6.59E-07	< 2.93E-06	< 7.62E-07	< 2.78E-06	< 6.36E-07
4-Bromophenyl-phenylether	101-55-3	< 1.66E-06	< 2.90E-07	< 1.51E-06	< 3.74E-07	< 1.72E-06	< 4.33E-07	< 1.63E-06	< 3.66E-07
Hexachlorobenzene	118-74-1	< 1.32E-06	< 2.24E-07	< 1.20E-06	< 2.87E-07	< 1.37E-06	< 3.32E-07	< 1.30E-06	< 2.81E-07
Pentachlorophenol	87-86-5	< 2.38E-06	< 3.94E-07	< 2.17E-06	< 5.51E-07	< 2.47E-06	< 6.37E-07	< 2.34E-06	< 5.28E-07
Phenanthrene	85-01-8	2.37E-06	2.19E-07	3.65E-06	3.17E-07	4.38E-06	3.23E-07	3.46E-06	2.86E-07
Anthracene	120-12-7	3.17E-07	< 6.44E-08	3.46E-07	< 7.87E-08	< 3.75E-07	< 9.11E-08	< 3.46E-07	< 7.81E-08
Di-n-butylphthalate	84-74-2	< 2.48E-07	8.82E-07	5.35E-06	8.24E-09	1.26E-06	8.54E-07	< 2.28E-06	5.82E-07
Fluoranthene	206-44-0	4.01E-06	2.36E-07	6.01E-06	3.12E-07	7.09E-06	3.45E-07	5.70E-06	2.98E-07
Pyrene	129-00-0	1.15E-05	8.42E-07	1.71E-05	1.17E-06	1.84E-05	1.48E-06	1.56E-05	1.16E-06
Butylbenzylphthalate	85-68-7	< 6.04E-07	6.68E-08	< 5.11E-07	< 2.23E-07	< 5.34E-07	9.47E-08	< 5.49E-07	< 1.28E-07
3,3'-Dichlorobenzidine	91-94-1	< 1.25E-06	< 4.75E-07	< 1.06E-06	< 6.57E-07	< 1.10E-06	< 7.78E-07	< 1.14E-06	< 6.36E-07
bis(2-Ethylhexyl)phthalate	117-81-7	5.42E-06	5.36E-07	7.65E-06	5.75E-07	1.08E-05	5.72E-07	7.94E-06	5.61E-07
Benzo(a)anthracene	56-55-3	< 4.19E-07	< 1.45E-07	< 3.55E-07	< 1.82E-07	< 3.71E-07	< 2.15E-07	< 3.81E-07	< 1.80E-07

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TABLE F.2-2
CARCASS GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Semivolatiles (lb/lb rubber removed)									
Chrysene	218-01-9	< 4.31E-07	< 1.62E-07	< 3.65E-07	< 2.05E-07	4.46E-06	< 2.42E-07	< 1.75E-06	< 2.03E-07
Di-n-octylphthalate	117-84-0	< 2.98E-07	< 1.08E-07	< 3.23E-07	< 1.30E-07	< 3.29E-07	< 1.46E-07	< 3.17E-07	< 1.28E-07
Benzo(b)fluoranthene	205-99-2	< 4.47E-07	< 1.74E-07	< 4.84E-07	< 2.38E-07	< 4.94E-07	< 2.67E-07	< 4.75E-07	< 2.26E-07
Benzo(k)fluoranthene	207-08-9	< 4.75E-07	< 1.78E-07	< 5.15E-07	< 2.49E-07	< 5.25E-07	< 2.79E-07	< 5.05E-07	< 2.36E-07
Benzo(a)pyrene	50-32-8	< 4.98E-07	< 2.07E-07	< 5.40E-07	< 2.93E-07	3.69E-06	< 3.29E-07	< 1.57E-06	< 2.77E-07
Indeno(1,2,3-cd)pyrene	193-39-5	< 4.78E-07	< 2.70E-07	< 5.18E-07	< 3.54E-07	< 5.28E-07	< 3.97E-07	< 5.08E-07	< 3.40E-07
Dibenz(a,h)anthracene	53-90-3	< 6.06E-07	< 3.22E-07	< 6.56E-07	< 4.61E-07	< 6.69E-07	< 5.16E-07	< 6.44E-07	< 4.33E-07
Benzo(g,h,i)perylene	191-24-2	1.85E-06	< 2.83E-07	1.82E-06	< 4.15E-07	3.44E-06	< 4.66E-07	2.37E-06	< 3.88E-07
n-Nitrosodimethylamine	62-75-9	< 3.79E-06	< 5.78E-07	< 4.19E-06	< 6.46E-07	< 4.83E-06	< 7.49E-07	< 4.27E-06	< 6.57E-07
Cumene	98-82-8	< 4.19E-07	< 9.28E-08	< 4.64E-07	< 1.04E-07	< 5.35E-07	< 1.20E-07	< 4.73E-07	< 1.06E-07
Aniline	62-53-3	1.48E-05	6.94E-07	1.39E-05	6.85E-07	3.05E-05	1.94E-06	1.97E-05	1.10E-06
Benzyl Chloride	100-44-7	< 5.60E-07	< 1.24E-07	< 6.19E-07	< 1.39E-07	< 7.14E-07	< 1.61E-07	< 6.31E-07	< 1.41E-07
Acetophenone	98-86-2	< 8.38E-07	1.78E-07	4.88E-07	1.90E-07	1.23E-06	2.30E-07	< 8.52E-07	1.99E-07
n-Nitrosomorpholine	59-89-2	< 1.65E-06	< 3.30E-07	< 1.83E-06	< 3.69E-07	< 2.11E-06	< 4.27E-07	< 1.86E-06	< 3.75E-07
o-Toluidine	95-53-4	2.48E-06	< 1.47E-07	1.88E-06	< 1.64E-07	3.28E-06	4.14E-07	2.55E-06	< 2.42E-07
N,N-Dimethylaniline	121-69-7	< 6.48E-07	< 1.38E-07	< 7.01E-07	< 1.57E-07	< 8.01E-07	< 1.82E-07	< 7.17E-07	< 1.59E-07
1,2-Dibromo-3-chloropropane	96-12-8	< 1.61E-06	< 4.00E-07	< 1.78E-06	< 4.48E-07	< 2.06E-06	< 5.19E-07	< 1.82E-06	< 4.56E-07
o-Anisidine	90-04-0	< 1.28E-06	< 2.81E-07	< 1.39E-06	< 3.20E-07	< 1.58E-06	< 3.70E-07	< 1.42E-06	< 3.23E-07
1,4-Phenylenediamine	106-50-3	< 2.05E-06	< 3.71E-07	< 2.22E-06	< 4.23E-07	< 2.54E-06	< 4.90E-07	< 2.27E-06	< 4.28E-07
N,N-Diethylaniline	91-66-7	< 4.97E-07	< 1.10E-07	< 5.51E-07	< 1.24E-07	< 6.35E-07	< 1.43E-07	< 5.61E-07	< 1.26E-07
a,a,a-Trichlorotoluene	98-07-7	< 5.86E-07	< 1.42E-07	< 6.34E-07	< 1.62E-07	< 7.26E-07	< 1.88E-07	< 6.49E-07	< 1.64E-07
Hydroquinone	123-31-9	< 1.64E-06	< 2.79E-07	< 1.78E-06	< 3.18E-07	< 2.03E-06	< 3.68E-07	< 1.82E-06	< 3.22E-07
2-Chloroacetophenone	1341-24-8	< 4.51E-07	< 9.89E-08	< 4.87E-07	< 1.13E-07	< 5.58E-07	9.26E-08	< 4.99E-07	< 1.01E-07
Biphenyl	92-52-4	< 4.57E-07	< 9.12E-08	< 4.74E-07	< 1.01E-07	< 5.41E-07	< 1.20E-07	< 4.90E-07	< 1.04E-07
Trifluralin	1582-09-8	< 2.62E-06	< 4.45E-07	< 2.72E-06	< 4.91E-07	< 3.11E-06	< 5.82E-07	< 2.82E-06	< 5.06E-07
4-Aminobiphenyl	92-67-1	< 5.72E-07	< 1.17E-07	< 5.22E-07	< 1.32E-07	< 5.94E-07	< 1.53E-07	< 5.63E-07	< 1.34E-07
Pentachloronitrobenzene	82-68-8	< 3.48E-06	< 7.01E-07	< 3.18E-06	< 7.91E-07	< 3.61E-06	< 9.14E-07	< 3.42E-06	< 8.02E-07
4-Nitrobiphenyl	92-93-3	< 1.18E-06	< 2.36E-07	< 1.08E-06	< 2.66E-07	< 1.23E-06	< 3.07E-07	< 1.16E-06	< 2.70E-07
Benzidine	92-87-5	< 1.17E-06	< 2.94E-07	< 9.92E-07	< 3.50E-07	< 1.04E-06	< 4.13E-07	< 1.07E-06	< 3.52E-07
4,4'-Methylenedianiline	101-77-9	< 1.53E-06	< 5.05E-07	< 1.29E-06	< 6.00E-07	< 1.35E-06	< 7.10E-07	< 1.39E-06	< 6.05E-07
Dimethylaminoazobenzene	60-11-7	< 1.47E-06	< 4.00E-07	< 1.25E-06	< 4.76E-07	< 1.30E-06	< 5.63E-07	< 1.34E-06	< 4.80E-07
3,3'-Dimethylbenzidine	119-93-7	< 7.58E-07	< 2.67E-07	< 6.42E-07	< 3.18E-07	< 6.70E-07	< 3.76E-07	< 6.90E-07	< 3.21E-07
3,3'-Dimethoxybenzidine	119-90-4	< 1.49E-06	< 7.08E-07	< 1.26E-06	< 8.41E-07	< 1.31E-06	< 9.95E-07	< 1.35E-06	< 8.48E-07
Methylene bis-chloroaniline	101-14-4	< 2.30E-06	< 9.98E-07	< 1.94E-06	< 1.19E-06	< 2.03E-06	< 1.40E-06	< 2.09E-06	< 1.20E-06
3-Furaldehyde	498-60-2	< 2.07E-06	< 4.10E-07	< 2.29E-06	< 4.75E-07	< 2.64E-06	< 5.52E-07	< 2.33E-06	< 4.79E-07
2-Furaldehyde	98-01-1	< 1.59E-06	< 3.71E-07	< 1.76E-06	< 4.11E-07	< 2.03E-06	< 4.77E-07	< 1.79E-06	< 4.19E-07
Cyclohexylamine	108-91-8	1.59E-04	1.33E-06	7.00E-04	9.16E-07	5.61E-04	3.33E-06	4.74E-04	1.86E-06
N-Nitrosodiethylamine	55-18-5	< 2.21E-06	< 4.64E-07	< 2.44E-06	< 5.36E-07	< 2.82E-06	< 6.21E-07	< 2.49E-06	< 5.40E-07
Cyclohexanone	108-94-1	1.06E-05	1.88E-06	1.84E-05	1.18E-06	1.95E-05	8.88E-07	1.62E-05	1.32E-06
1,3-Cyclooctadiene	1700-10-3	< 1.00E-06	< 2.37E-07	< 1.11E-06	< 2.71E-07	< 1.28E-06	< 3.14E-07	< 1.13E-06	< 2.74E-07
1,5-Cyclooctadiene	111-78-4	< 2.28E-06	< 5.37E-07	< 2.53E-06	< 6.11E-07	< 2.91E-06	< 7.08E-07	< 2.57E-06	< 6.19E-07
Camphene	79-92-5	< 1.14E-06	< 2.59E-07	< 1.27E-06	< 3.00E-07	< 1.46E-06	< 3.48E-07	< 1.29E-06	< 3.02E-07
Benzaldehyde	100-52-7	< 1.41E-06	2.49E-07	< 1.56E-06	2.76E-07	< 1.79E-06	2.16E-07	< 1.59E-06	2.47E-07
Benzonitrile	100-47-0	< 4.92E-07	< 1.10E-07	< 5.44E-07	< 1.28E-07	< 6.27E-07	< 1.48E-07	< 5.54E-07	< 1.29E-07
Isooctanol	26952-21-6	< 1.47E-05	< 2.63E-06	< 1.62E-05	< 3.14E-06	< 1.87E-05	< 3.64E-06	< 1.65E-05	< 3.14E-06
1,2,4-Trimethylbenzene	95-63-6	< 4.38E-07	1.08E-07	< 4.85E-07	6.68E-08	< 5.59E-07	9.93E-08	< 4.94E-07	9.14E-08
3-Methylstyrene	100-80-1	< 6.84E-07	< 1.62E-07	< 7.57E-07	< 1.86E-07	< 8.72E-07	< 2.16E-07	< 7.71E-07	< 1.88E-07
4-Methylstyrene	622-97-9	< 7.63E-07	< 1.73E-07	< 8.44E-07	< 1.97E-07	< 9.73E-07	< 2.29E-07	< 8.60E-07	< 2.00E-07
4-Chlorostyrene	1073-67-2	< 7.90E-07	< 1.96E-07	< 8.74E-07	< 2.31E-07	< 1.01E-06	< 2.67E-07	< 8.90E-07	< 2.31E-07
1-Dodecene	112-41-4	< 4.96E-06	< 8.96E-07	< 5.36E-06	< 1.11E-06	< 6.13E-06	< 1.28E-06	< 5.49E-06	< 1.10E-06
Phthalimide	85-41-6	6.39E-05	5.52E-07	7.36E-05	3.24E-06	4.35E-05	3.61E-06	6.04E-05	2.47E-06
Diphenylamine	122-39-4	3.62E-06	5.16E-07	7.08E-06	6.43E-07	6.72E-06	6.97E-07	5.81E-06	6.19E-07
Total Detected		2.84E-04	9.51E-06	8.64E-04	1.02E-05	7.28E-04	1.57E-05	6.25E-04	1.18E-05
Total with non-detects		< 4.07E-04	< 3.59E-05	< 9.91E-04	< 4.33E-05	< 8.72E-04	< 5.34E-05	< 7.57E-04	< 4.42E-05

TRC

TABLE F.2-3
CARCASS GRINDING SPECIATED VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Volatiles (µg/m³)											
		1-Heptene	592-76-7	81.69	122.53	700.17	361.76	335.50	93.36	372.45	192.55
		1-Hexene	592-41-6	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
		1-Octene	111-60-0	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
		1-Pentene	109-67-1	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
1		1,1-Dichloroethane	00075-34-3	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		1,1-Dichloroethene	00075-35-4	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		1,1,1-Trichloroethane	00071-55-6	< 8.00	4.70	< 8.00	< 8.00	6.80	3.90	< 7.60	< 5.53
1		1,1,2-Trichloroethane	00079-00-5	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
1		1,2-Dibromoethane	00106-93-4	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		1,2-Dichlorobenzene	00095-50-1	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		1,2-Dichloroethane	00107-06-2	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		1,2-Dichloropropane	00078-87-5	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
		1,2,4-Trimethylbenzene	95-63-6	< 27.78	< 5.56	< 27.78	< 5.56	< 27.78	< 5.56	< 27.78	< 5.56
		1,3-Butadiene	106-99-0	320.63	90.00	483.76	18.56	309.38	19.69	371.26	42.75
1		1,3-Dichlorobenzene	00541-73-1	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1	2	1,3-Pentadiene					60.00	70.00		23.33	20.00
		1,3,5-Trimethylbenzene	108-67-8	< 27.78	< 5.56	< 27.78	< 5.56	< 27.78	< 5.56	< 27.78	< 5.56
1		1,4-Dichlorobenzene	00106-46-7	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 27.92	< 5.58	< 27.92	< 5.58	< 27.92	< 5.58	< 27.92	< 5.58
1		1,4-Dioxane	00123-91-1	< 32.00	< 32.00	< 32.00	< 32.00	< 32.00	< 32.00	< 32.00	< 32.00
1		2-Butanone	00078-93-3	6.30	6.90	< 16.00	5.60	7.20	5.10	< 9.83	5.87
1		2-Hexanone	00591-78-6	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
		2-Methyl-1-butene	563-46-2	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
		2-Methyl-2-butene	513-35-9	10502.60	1808.78	12836.51	145.87	11086.07	239.23	11475.06	731.29
		2-Methyl-2-pentene	625-27-4	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
		2-Methylheptane	592-27-8	< 5.94	95.03	< 5.94	831.54	< 5.94	314.80	< 5.94	413.79
		2-Methylhexane	591-76-4	202.46	303.68	1965.01	774.09	833.64	208.41	1000.37	428.73
		2-Methylpentane	107-83-5	< 5.97	54.37	45.41	77.67	< 5.97	48.39	< 19.12	60.14
		2,2-Dimethylbutane	75-83-2	< 5.97	< 1.19	< 5.97	< 1.19	< 5.97	< 1.19	< 5.97	< 1.19
		2,2-Dimethylpropane	463-82-1	< 6.00	< 1.20	< 6.00	< 1.20	< 6.00	< 1.20	< 6.00	< 1.20
		2,3-Dimethylpentane	565-59-3	71.45	95.27	714.55	285.82	< 5.95	71.45	< 263.99	150.85
		2,3,4-Trimethylpentane	565-75-3	40.98	71.28	136.61	154.43	< 5.94	49.30	< 61.18	91.67
		2,4-Dimethylhexane	589-43-5	166.31	201.95	552.38	653.35	510.80	207.89	409.83	354.40
		3-Methylhexane	589-34-4	345.36	482.32	2977.28	1310.00	4078.88	345.36	2467.17	712.56
		3-Methylpentane	96-14-0	< 5.97	44.81	95.59	44.21	< 5.97	30.47	< 35.85	39.83
		4-Methyl-1-pentene	691-37-2	< 5.83	9.34	< 5.83	18.67	< 5.83	< 1.17	< 5.83	< 9.72
1		4-Methyl-2-pentanone	00108-10-1	180.00	2000.00	130.00	350.00	470.00	300.00	260.00	883.33
1		Acetone	00067-64-1	57.00	99.00	160.00	43.00	510.00	61.00	242.33	67.67
1		Acetonitrile	01722-09-4	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
		Acetylene	74-86-2	< 5.42	< 1.08	< 5.42	< 1.08	< 5.42	< 1.08	< 5.42	< 1.08
1		Acrolein	00107-02-8	11.00	29.00	52.00	11.00	< 16.00	< 16.00	< 26.33	< 18.67
1		Acrylonitrile	00107-13-1	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
1		Allyl Chloride	00107-05-1	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
		a-Pinene	7785-70-8	< 5.67	< 1.13	< 5.67	< 1.13	< 5.67	< 1.13	< 5.67	< 1.13
		Benzene	71-43-2	< 5.42	10.83	< 5.42	5.31	154.34	5.04	< 55.06	7.06
1		Benzyl Chloride	00100-44-7	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
		b-Pinene	18172-67-3	< 28.34	< 5.67	< 28.34	< 5.67	< 28.34	< 5.67	< 28.34	< 5.67
1		Bromodichloromethane	00075-27-4	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Bromoform	00075-25-2	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Bromomethane	00074-83-9	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1	2	Butanal		40.00						13.33	0.00
1	2	C7H16 Branched Alkane		50.00	80.00	900.00	200.00	80.00	60.00	343.33	113.33
1	2	C8H16 Branched Alkene					200.00	100.00		33.33	66.67
1		Carbon Disulfide	00075-15-0	3.60	32.00	36.00	13.00	18.00	4.20	19.20	16.40
1		Carbon Tetrachloride	00056-23-5	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Chlorobenzene	00108-90-7	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Chlorodibromomethane	00124-48-1	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Chloroethane	00075-00-3	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Chloroform	00067-66-3	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Chloromethane	00074-87-3	< 8.00	2.60	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 6.20
1		cis-1,2-Dichloroethene	00156-59-2	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		cis-1,3-Dichloropropene	10061-01-5	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00

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TABLE F.2-3
CARCASS GRINDING SPECIATED VOLATILES SUMMARY

			Run 1		Run 2		Run 3		Average	
		Compounds	CAS Numbers	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet w/ non-detects	Outlet w/ non-detects
		Speciated Volatiles (µg/m³)									
		cis-2-Butene	590-18-1	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
		cis-2-Hexene	7688-21-3	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
		cis-2-Pentene	627-20-3	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
		Cumene	98-82-8	< 5.56	< 1.11	< 5.56	< 1.11	< 5.56	< 1.11	< 5.56	< 1.11
1	2	Cyclobutane		30.00						10.00	0.00
		Cyclohexane	110-82-7	64.18	93.36	513.46	350.09	2625.65	93.36	1067.76	178.93
1	2	Cyclohexanone			50.00			100.00		33.33	16.67
		Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	< 6.50	7.80	< 6.50	10.40	< 6.50	7.80	< 6.50	8.67
		Cyclopentene	142-29-0	< 5.67	30.60	< 5.67	62.34	< 5.67	24.94	< 5.67	39.29
1		Dichlorodifluoromethane	00075-71-8	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	3.80	< 8.00	< 6.60
1	2	Dimethylcyclophexane		70.00	80.00	200.00	100.00		60.00	90.00	80.00
		d-Limonene	5989-27-5	< 28.34	11.33	< 28.34	62.34	< 28.34	15.87	< 28.34	29.85
1		Epichlorohydrin	00106-89-8	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
		Ethane	74-84-0	< 6.25	< 1.25	< 6.25	< 1.25	< 6.25	< 1.25	< 6.25	< 1.25
1	2	Ethanol						200.00	20.00	66.67	6.67
		Ethylacetylene	107-00-6	< 5.63	< 1.13	< 5.63	< 1.13	< 5.63	< 1.13	< 5.63	< 1.13
		Ethylbenzene	100-41-4	< 5.52	< 1.10	< 5.52	< 1.10	< 5.52	< 1.10	< 5.52	< 1.10
		Ethylene	74-85-1	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
1	2	Heptane		400.00	600.00	2000.00	1000.00	600.00	500.00	1000.00	700.00
1		Hexachlorobutadiene	00087-68-3	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
		Isobutane	75-28-5	< 6.04	< 1.21	< 6.04	< 1.21	< 6.04	< 1.21	< 6.04	< 1.21
		Isobutylene + 1-Butene	115-11-7/106-98-9	< 5.83	20.42	< 5.83	7.59	< 5.83	< 1.17	< 5.83	< 9.72
		Isooctane	540-84-1	55.24	89.09	403.89	302.92	< 5.94	83.15	< 155.02	158.39
		Isopentane	78-78-4	162.07	204.08	294.12	102.04	< 6.00	186.08	< 154.06	164.07
		Isoprene	78-79-5	< 5.67	45.34	< 5.67	124.68	< 5.67	29.47	< 5.67	66.49
		Methylacetylene	74-99-7	< 5.42	< 1.08	< 5.42	< 1.08	< 5.42	< 1.08	< 5.42	< 1.08
		Methylcyclohexane	108-87-2	519.30	758.52	3034.08	2275.56	2363.08	700.17	1972.15	1244.75
		Methylcyclopentane	96-37-7	56.01	105.03	250.90	122.53	137.12	64.18	148.01	97.25
1		Methylene Chloride	00075-09-2	37000.00	4900.00	76000.00	250.00	61000.00	470.00	58000.00	1873.33
1	2	Methylheptane		100.00	100.00	400.00	300.00	200.00	100.00	233.33	166.67
1	2	Methylhexane		500.00	500.00	2000.00	1200.00	500.00	400.00	1000.00	700.00
		m-Ethyltoluene	620-14-4	< 5.56	< 1.11	< 5.56	< 1.11	< 5.56	< 1.11	< 5.56	< 1.11
		m-Xylene + p-Xylene	108-38-3/106-42-3	53.00	20.98	42.51	12.70	< 5.52	11.59	< 33.67	15.09
		n-Butane	106-97-8	< 6.04	48.36	< 6.04	17.53	< 6.04	36.27	< 6.04	34.05
		n-Decane	124-18-5	< 29.59	< 5.92	< 29.59	< 5.92	< 29.59	< 5.92	< 29.59	< 5.92
		n-Heptane	142-82-5	595.46	774.09	4287.29	2500.92	4525.47	655.00	3136.07	1310.00
		n-Hexane	110-54-3	221.06	119.49	466.01	167.29	< 5.97	95.59	< 231.02	127.46
		n-Nonane	111-84-2	< 5.93	< 1.19	< 5.93	< 1.19	< 5.93	< 1.19	< 5.93	< 1.19
		n-Octane	111-65-9	58.80	65.34	106.91	65.34	< 5.94	17.22	< 57.22	49.30
		n-Pentane	109-66-0	< 6.00	33.61	< 6.00	50.42	93.04	50.42	< 35.01	44.82
		n-Propylbenzene	103-65-1	< 5.56	< 1.11	< 5.56	< 1.11	< 5.56	< 1.11	< 5.56	< 1.11
1	2	Octane		80.00	70.00	200.00				93.33	23.33
		o-Ethyltoluene	611-14-3	< 27.78	< 5.56	< 27.78	< 5.56	< 27.78	< 5.56	< 27.78	< 5.56
		o-Xylene	95-47-6	< 5.52	< 1.10	< 5.52	< 1.10	< 5.52	< 1.10	< 5.52	< 1.10
		p-Cymene	99-87-6	< 27.92	< 5.58	< 27.92	< 5.58	< 27.92	< 5.58	< 27.92	< 5.58
1	2	Pentane							30.00	0.00	10.00
		p-Ethyltoluene	622-96-8	< 5.56	< 1.11	< 5.56	< 1.11	< 5.56	< 1.11	< 5.56	< 1.11
		Propane	74-98-6	< 6.11	< 1.22	< 6.11	< 1.22	< 6.11	< 1.22	< 6.11	< 1.22
		Propylene	115-07-1	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
1		Propylene Oxide	00075-56-9	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
		Styrene	100-42-5	< 5.42	< 1.08	< 5.42	< 1.08	< 5.42	< 1.08	< 5.42	< 1.08
1		t-Butyl Methyl Ether	01634-04-4	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00	< 16.00
1		Tetrachloroethene	00127-18-4	< 8.00	5.20	< 8.00	< 8.00	< 8.00	6.50	< 8.00	< 6.57
		Toluene	108-88-3	109508.20	14236.07	142360.66	2244.92	147836.07	1697.38	133234.98	6059.45
1		trans-1,2-Dichloroethene	00156-60-5	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		trans-1,2-Dichloropropene	10061-01-5	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
		trans-2-Butene	624-64-6	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
		trans-2-Hexene	4050-45-7	< 5.83	9.92	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 4.08
		trans-2-Pentene	646-04-8	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17	< 5.83	< 1.17
1		Trichloroethene	00079-01-6	< 8.00	< 8.00	50.00	66.00	26.00	17.00	< 28.00	< 30.33
1		Trichlorofluoromethane	00075-69-4	63.00	19.00	69.00	< 8.00	83.00	< 8.00	71.67	< 11.67
1		Trichlortrifluoroethane	00076-13-1	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Vinyl Acetate	00108-05-4	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
1		Vinyl Chloride	00075-01-4	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00	< 8.00
		Total Detected		161615.69	28642.02	254464.10	16959.47	238860.05	7443.38	218313.28	17681.62
		Total with non-detects		< 162502.94	< 29114.86	< 255347.40	< 17457.49	< 239777.15	< 7935.72	< 219209.17	< 18169.36

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TABLE F.2-3
CARCASS GRINDING SPECIATED VOLATILES SUMMARY

	Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
	Speciated Volatiles (lb/hr)									
	1-Heptene	592-76-7	6.94E-04	1.06E-03	5.70E-03	3.15E-03	2.64E-03	8.17E-04	3.01E-03	1.68E-03
	1-Hexene	592-41-6	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
	1-Octene	111-60-0	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
	1-Pentene	109-67-1	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
1	1,1-Dichloroethane	00075-34-3	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	1,1-Dichloroethene	00075-35-4	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	1,1,1-Trichloroethane	00071-55-6	< 6.80E-05	4.07E-05	< 6.52E-05	< 6.97E-05	5.35E-05	3.41E-05	< 6.22E-05	< 4.82E-05
1	1,1,2-Trichloroethane	00079-00-5	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
1	1,2-Dibromoethane	00106-93-4	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	1,2-Dichlorobenzene	00095-50-1	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	1,2-Dichloroethane	00107-06-2	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	1,2-Dichloropropane	00078-87-5	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
	1,2,4-Trimethylbenzene	95-63-6	< 2.36E-04	< 4.81E-05	< 2.26E-04	< 4.84E-05	< 2.19E-04	< 4.86E-05	< 2.27E-04	< 4.83E-05
	1,3-Butadiene	106-99-0	2.73E-03	7.78E-04	3.94E-03	1.62E-04	2.44E-03	1.72E-04	3.03E-03	3.71E-04
1	1,3-Dichlorobenzene	00541-73-1	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1 2	1,3-Pentadiene		0.00E+00	0.00E+00	0.00E+00	5.23E-04	5.51E-04	0.00E+00	1.84E-04	1.74E-04
	1,3,5-Trimethylbenzene	108-67-8	< 2.36E-04	< 4.81E-05	< 2.26E-04	< 4.84E-05	< 2.19E-04	< 4.86E-05	< 2.27E-04	< 4.83E-05
1	1,4-Dichlorobenzene	00106-46-7	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 2.37E-04	< 4.83E-05	< 2.27E-04	< 4.86E-05	< 2.20E-04	< 4.89E-05	< 2.28E-04	< 4.86E-05
1	1,4-Dioxane	00123-91-1	< 2.72E-04	< 2.77E-04	< 2.61E-04	< 2.79E-04	< 2.52E-04	< 2.80E-04	< 2.62E-04	< 2.79E-04
1	2-Butanone	00078-93-3	5.35E-05	5.97E-05	< 1.30E-04	4.88E-05	5.67E-05	4.46E-05	< 8.02E-05	5.10E-05
1	2-Hexanone	00591-78-6	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
	2-Methyl-1-butene	563-46-2	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
	2-Methyl-2-butene	513-35-9	8.93E-02	1.56E-02	1.05E-01	1.27E-03	8.73E-02	2.09E-03	9.37E-02	6.34E-03
	2-Methyl-2-pentene	625-27-4	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
	2-Methylheptane	592-27-8	< 5.05E-05	8.22E-04	< 4.84E-05	7.24E-03	< 4.68E-05	2.75E-03	< 4.85E-05	3.61E-03
	2-Methylhexane	591-76-4	1.72E-03	2.63E-03	1.60E-02	6.74E-03	6.56E-03	1.82E-03	8.10E-03	3.73E-03
	2-Methylpentane	107-83-5	< 5.08E-05	4.70E-04	3.70E-04	6.76E-04	< 4.70E-05	4.23E-04	< 1.56E-04	5.23E-04
	2,2-Dimethylbutane	75-83-2	< 5.08E-05	< 1.03E-05	< 4.87E-05	< 1.04E-05	< 4.70E-05	< 1.05E-05	< 4.88E-05	< 1.04E-05
	2,2-Dimethylpropane	463-82-1	< 5.10E-05	< 1.04E-05	< 4.89E-05	< 1.05E-05	< 4.73E-05	< 1.05E-05	< 4.91E-05	< 1.04E-05
	2,3-Dimethylpentane	565-59-3	6.07E-04	8.24E-04	5.82E-03	2.49E-03	< 4.69E-05	6.25E-04	< 2.16E-03	1.31E-03
	2,3,4-Trimethylpentane	565-75-3	3.48E-04	6.17E-04	1.11E-03	1.35E-03	< 4.68E-05	4.31E-04	< 5.03E-04	7.98E-04
	2,4-Dimethylhexane	589-43-5	1.41E-03	1.75E-03	4.50E-03	5.69E-03	4.02E-03	1.82E-03	3.31E-03	3.09E-03
	3-Methylhexane	589-34-4	2.94E-03	4.17E-03	2.42E-02	1.14E-02	3.21E-02	3.02E-03	1.98E-02	6.20E-03
	3-Methylpentane	96-14-0	< 5.08E-05	3.88E-04	7.78E-04	3.85E-04	< 4.70E-05	2.67E-04	< 2.92E-04	3.46E-04
	4-Methyl-1-pentene	691-37-2	< 4.96E-05	8.07E-05	< 4.75E-05	1.63E-04	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 8.45E-05
1	4-Methyl-2-pentanone	00108-10-1	1.53E-03	1.73E-02	1.06E-03	3.05E-03	3.70E-03	2.63E-03	2.10E-03	7.66E-03
1	Acetone	00067-64-1	4.84E-04	8.56E-04	1.30E-03	3.75E-04	4.02E-03	5.34E-04	1.93E-03	5.88E-04
1	Acetonitrile	01722-09-4	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
	Acetylene	74-86-2	< 4.60E-05	< 9.37E-06	< 4.41E-05	< 9.43E-06	< 4.26E-05	< 9.48E-06	< 4.43E-05	< 9.43E-06
1	Acrolein	00107-02-8	9.35E-05	2.51E-04	4.23E-04	9.58E-05	< 1.26E-04	< 1.40E-04	< 2.14E-04	< 1.62E-04
1	Acrylonitrile	00107-13-1	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
1	Allyl Chloride	00107-05-1	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
	a-Pinene	7785-70-8	< 4.82E-05	< 9.80E-06	< 4.62E-05	< 9.87E-06	< 4.46E-05	< 9.92E-06	< 4.63E-05	< 9.86E-06
	Benzene	71-43-2	< 4.60E-05	9.37E-05	< 4.41E-05	4.62E-05	1.22E-03	4.41E-05	< 4.35E-04	6.13E-05
1	Benzyl Chloride	00100-44-7	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
	b-Pinene	18172-67-3	< 2.41E-04	< 4.90E-05	< 2.31E-04	< 4.94E-05	< 2.23E-04	< 4.96E-05	< 2.32E-04	< 4.93E-05
1	Bromodichloromethane	00075-27-4	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Bromoform	00075-25-2	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Bromomethane	00074-83-9	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1 2	Butanal		3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00
1 2	C7H16 Branched Alkane		4.25E-04	6.92E-04	7.33E-03	1.74E-03	6.30E-04	5.25E-04	2.79E-03	9.86E-04
1 2	C8H16 Branched Alkene		0.00E+00	0.00E+00	0.00E+00	1.74E-03	7.87E-04	0.00E+00	2.62E-04	5.81E-04
1	Carbon Disulfide	00075-15-0	3.06E-05	2.77E-04	2.93E-04	1.13E-04	1.42E-04	3.68E-05	1.55E-04	1.42E-04
1	Carbon Tetrachloride	00056-23-5	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Chlorobenzene	00108-90-7	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Chlorodibromomethane	00124-48-1	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Chloroethane	00075-00-3	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Chloroform	00067-66-3	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Chloromethane	00074-87-3	< 6.80E-05	2.25E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 5.41E-05
1	cis-1,2-Dichloroethene	00156-59-2	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	cis-1,3-Dichloropropene	10061-01-5	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05

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TABLE F.2-3
CARCASS GRINDING SPECIATED VOLATILES SUMMARY

	Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
	Speciated Volatiles (lb/hr)									
	cis-2-Butene	590-18-1	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
	cis-2-Hexene	7688-21-3	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
	cis-2-Pentene	627-20-3	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
	Cumene	98-82-8	< 4.72E-05	< 9.61E-06	< 4.52E-05	< 9.68E-06	< 4.37E-05	< 9.72E-06	< 4.54E-05	< 9.67E-06
1 2	Cyclobutane		2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	0.00E+00
	Cyclohexane	110-82-7	5.46E-04	8.07E-04	4.18E-03	3.05E-03	2.07E-02	8.17E-04	8.47E-03	1.56E-03
1 2	Cyclohexanone		0.00E+00	4.32E-04	0.00E+00	0.00E+00	7.87E-04	0.00E+00	2.62E-04	1.44E-04
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	< 5.53E-05	6.75E-05	< 5.30E-05	9.06E-05	< 5.12E-05	6.83E-05	< 5.31E-05	7.55E-05
	Cyclopentene	142-29-0	< 4.82E-05	2.65E-04	< 4.62E-05	5.43E-04	< 4.46E-05	2.18E-04	< 4.63E-05	3.42E-04
1	Dichlorodifluoromethane	00075-71-8	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	3.33E-05	< 6.54E-05	< 5.74E-05
1 2	Dimethylcyclophexane		5.95E-04	6.92E-04	1.63E-03	8.71E-04	0.00E+00	5.25E-04	7.41E-04	6.96E-04
	d-Limonene	5989-27-5	< 2.41E-04	9.80E-05	< 2.31E-04	5.43E-04	< 2.23E-04	1.39E-04	< 2.32E-04	2.60E-04
1	*Epichlorohydrin*	00106-89-8	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
	Ethane	74-84-0	< 5.32E-05	< 1.08E-05	< 5.09E-05	< 1.09E-05	< 4.92E-05	< 1.09E-05	< 5.11E-05	< 1.09E-05
1 2	Ethanol		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	1.75E-04	5.25E-04	5.83E-05
	Ethylacetylene	107-00-6	< 4.78E-05	< 9.73E-06	< 4.58E-05	< 9.80E-06	< 4.43E-05	< 9.84E-06	< 4.60E-05	< 9.79E-06
	Ethylbenzene	100-41-4	< 4.69E-05	< 9.55E-06	< 4.50E-05	< 9.62E-06	< 4.35E-05	< 9.66E-06	< 4.51E-05	< 9.61E-06
	Ethylene	74-85-1	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
1 2	Heptane		3.40E-03	5.19E-03	1.63E-02	8.71E-03	4.72E-03	4.38E-03	8.14E-03	6.09E-03
1	Hexachlorobutadiene	00087-68-3	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
	Isobutane	75-28-5	< 5.14E-05	< 1.05E-05	< 4.92E-05	< 1.05E-05	< 4.76E-05	< 1.06E-05	< 4.94E-05	< 1.05E-05
	Isobutylene + 1-Butene	115-11-7/106-98-9	< 4.96E-05	1.77E-04	< 4.75E-05	6.61E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 8.43E-05
	Isooctane	540-84-1	4.70E-04	7.71E-04	3.29E-03	2.64E-03	< 4.68E-05	7.28E-04	< 1.27E-03	1.38E-03
	Isopentane	78-78-4	1.38E-03	1.77E-03	2.40E-03	8.89E-04	< 4.73E-05	1.63E-03	< 1.27E-03	1.43E-03
	Isoprene	78-79-5	< 4.82E-05	3.92E-04	< 4.62E-05	1.09E-03	< 4.46E-05	2.58E-04	< 4.63E-05	5.79E-04
	Methylacetylene	74-99-7	< 4.60E-05	< 9.37E-06	< 4.41E-05	< 9.43E-06	< 4.26E-05	< 9.48E-06	< 4.43E-05	< 9.43E-06
	Methylcyclohexane	108-87-2	4.41E-03	6.56E-03	2.47E-02	1.98E-02	1.86E-02	6.13E-03	1.59E-02	1.08E-02
	Methylcyclopentane	96-37-7	4.76E-04	9.08E-04	2.04E-03	1.07E-03	1.08E-03	5.62E-04	1.20E-03	8.46E-04
1	Methylene Chloride	00075-09-2	3.14E-01	4.24E-02	6.19E-01	2.18E-03	4.80E-01	4.11E-03	4.71E-01	1.62E-02
1 2	Methylheptane		8.50E-04	8.65E-04	3.26E-03	2.61E-03	1.57E-03	8.75E-04	1.89E-03	1.45E-03
1 2	Methylhexane		4.25E-03	4.32E-03	1.63E-02	1.05E-02	3.94E-03	3.50E-03	8.16E-03	6.09E-03
	m-Ethyltoluene	620-14-4	< 4.72E-05	< 9.61E-06	< 4.52E-05	< 9.68E-06	< 4.37E-05	< 9.72E-06	< 4.54E-05	< 9.67E-06
	m-Xylene + p-Xylene	108-38-3/106-42-3	4.50E-04	1.81E-04	3.46E-04	1.11E-04	< 4.35E-05	1.01E-04	< 2.80E-04	1.31E-04
	n-Butane	106-97-8	< 5.14E-05	4.18E-04	< 4.92E-05	1.53E-04	< 4.76E-05	3.17E-04	< 4.94E-05	2.96E-04
	n-Decane	124-18-5	< 2.52E-04	< 5.12E-05	< 2.41E-04	< 5.15E-05	< 2.33E-04	< 5.18E-05	< 2.42E-04	< 5.15E-05
	n-Heptane	142-82-5	5.06E-03	6.70E-03	3.49E-02	2.18E-02	3.56E-02	5.73E-03	2.52E-02	1.14E-02
	n-Hexane	110-54-3	1.88E-03	1.03E-03	3.80E-03	1.46E-03	< 4.70E-05	8.37E-04	< 1.91E-03	1.11E-03
	n-Nonane	111-84-2	< 5.04E-05	< 1.03E-05	< 4.83E-05	< 1.03E-05	< 4.67E-05	< 1.04E-05	< 4.84E-05	< 1.03E-05
	n-Octane	111-65-9	5.00E-04	5.65E-04	8.71E-04	5.69E-04	< 4.68E-05	1.51E-04	< 4.72E-04	4.28E-04
	n-Pentane	109-66-0	< 5.10E-05	2.91E-04	< 4.89E-05	4.39E-04	7.33E-04	4.41E-04	< 2.78E-04	3.90E-04
	n-Propylbenzene	103-65-1	< 4.72E-05	< 9.61E-06	< 4.52E-05	< 9.68E-06	< 4.37E-05	< 9.72E-06	< 4.54E-05	< 9.67E-06
1 2	Octane		6.80E-04	6.05E-04	1.63E-03	0.00E+00	0.00E+00	0.00E+00	7.70E-04	2.02E-04
	o-Ethyltoluene	611-14-3	< 2.36E-04	< 4.81E-05	< 2.26E-04	< 4.84E-05	< 2.19E-04	< 4.86E-05	< 2.27E-04	< 4.83E-05
	o-Xylene	95-47-6	< 4.69E-05	< 9.55E-06	< 4.50E-05	< 9.62E-06	< 4.35E-05	< 9.66E-06	< 4.51E-05	< 9.61E-06
	p-Cymene	99-87-6	< 2.37E-04	< 4.83E-05	< 2.27E-04	< 4.86E-05	< 2.20E-04	< 4.89E-05	< 2.28E-04	< 4.86E-05
1 2	Pentane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	8.75E-05
	p-Ethyltoluene	622-96-8	< 4.72E-05	< 9.61E-06	< 4.52E-05	< 9.68E-06	< 4.37E-05	< 9.72E-06	< 4.54E-05	< 9.67E-06
	Propane	74-98-6	< 5.20E-05	< 1.06E-05	< 4.98E-05	< 1.07E-05	< 4.81E-05	< 1.07E-05	< 5.00E-05	< 1.06E-05
	Propylene	115-07-1	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
1	Propylene Oxide	00075-56-9	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
	Styrene	100-42-5	< 4.60E-05	< 9.37E-06	< 4.41E-05	< 9.43E-06	< 4.26E-05	< 9.48E-06	< 4.43E-05	< 9.43E-06
1	t-Butyl Methyl Ether	01634-04-4	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
1	Tetrachloroethene	00127-18-4	< 6.80E-05	4.50E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	5.69E-05	< 6.54E-05	< 5.72E-05
	Toluene	108-88-3	9.31E-01	1.23E-01	1.16E+00	1.96E-02	1.16E+00	1.49E-02	1.08E+00	5.25E-02
1	trans-1,2-Dichloroethene	00156-60-5	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	trans-1,2-Dichloropropene	10061-01-5	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
	trans-2-Butene	624-64-6	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
	trans-2-Hexene	4050-45-7	< 4.96E-05	8.58E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 3.54E-05
	trans-2-Pentene	646-04-8	< 4.96E-05	< 1.01E-05	< 4.75E-05	< 1.02E-05	< 4.59E-05	< 1.02E-05	< 4.77E-05	< 1.02E-05
1	Trichloroethene	00079-01-6	< 6.80E-05	< 6.92E-05	4.07E-04	5.75E-04	2.05E-04	1.49E-04	< 2.27E-04	< 2.64E-04
1	Trichlorofluoromethane	00075-69-4	5.35E-04	1.64E-04	5.62E-04	< 6.97E-05	6.54E-04	< 7.00E-05	5.84E-04	< 1.01E-04
1	Trichlortrifluoroethane	00076-13-1	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Vinyl Acetate	00108-05-4	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
1	Vinyl Chloride	00075-01-4	< 6.80E-05	< 6.92E-05	< 6.52E-05	< 6.97E-05	< 6.30E-05	< 7.00E-05	< 6.54E-05	< 6.96E-05
	Total Detected		1.37E+00	2.48E-01	2.07E+00	1.48E-01	1.88E+00	6.51E-02	1.78E+00	1.54E-01
	Total with non-detects		< 1.38E+00	< 2.52E-01	< 2.08E+00	< 1.52E-01	< 1.89E+00	< 6.94E-02	< 1.78E+00	< 1.58E-01

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TABLE F.2-3
CARCASS GRINDING SPECIATED VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Volatiles (lb/lb rubber removed)											
		1-Heptene	592-76-7	5.27E-06	8.05E-06	5.01E-05	2.77E-05	2.61E-05	8.07E-06	2.72E-05	1.46E-05
		1-Hexene	592-41-6	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
		1-Octene	111-60-0	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
		1-Pentene	109-67-1	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
1		1,1-Dichloroethane	00075-34-3	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		1,1-Dichloroethene	00075-35-4	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		1,1,1-Trichloroethane	00071-55-6	< 5.17E-07	3.09E-07	< 5.73E-07	< 6.12E-07	5.29E-07	3.37E-07	< 5.39E-07	< 4.19E-07
1		1,1,2-Trichloroethane	00079-00-5	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
1		1,2-Dibromoethane	00106-93-4	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		1,2-Dichlorobenzene	00095-50-1	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		1,2-Dichloroethane	00107-06-2	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		1,2-Dichloropropane	00078-87-5	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
		1,2,4-Trimethylbenzene	95-63-6	< 1.79E-06	< 3.65E-07	< 1.99E-06	< 4.25E-07	< 2.16E-06	< 4.80E-07	< 1.98E-06	< 4.23E-07
		1,3-Butadiene	106-99-0	2.07E-05	5.91E-06	3.46E-05	1.42E-06	2.41E-05	1.70E-06	2.65E-05	3.01E-06
1		1,3-Dichlorobenzene	00541-73-1	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1	2	1,3-Pentadiene		0.00E+00	0.00E+00	0.00E+00	4.59E-06	5.45E-06	0.00E+00	1.82E-06	1.53E-06
		1,3,5-Trimethylbenzene	108-67-8	< 1.79E-06	< 3.65E-07	< 1.99E-06	< 4.25E-07	< 2.16E-06	< 4.80E-07	< 1.98E-06	< 4.23E-07
1		1,4-Dichlorobenzene	00106-46-7	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 1.80E-06	< 3.67E-07	< 2.00E-06	< 4.27E-07	< 2.17E-06	< 4.83E-07	< 1.99E-06	< 4.26E-07
1		1,4-Dioxane	00123-91-1	< 2.07E-06	< 2.10E-06	< 2.29E-06	< 2.45E-06	< 2.49E-06	< 2.77E-06	< 2.28E-06	< 2.44E-06
1		2-Butanone	00078-93-3	4.07E-07	4.53E-07	< 1.15E-06	4.29E-07	5.60E-07	4.41E-07	< 7.04E-07	4.41E-07
1		2-Hexanone	00591-78-6	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
		2-Methyl-1-butene	563-46-2	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
		2-Methyl-2-butene	513-35-9	6.78E-04	1.19E-04	9.19E-04	1.12E-05	8.62E-04	2.07E-05	8.20E-04	5.02E-05
		2-Methyl-2-pentene	625-27-4	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
		2-Methylheptane	592-27-8	< 3.83E-07	6.24E-06	< 4.25E-07	6.36E-05	< 4.62E-07	2.72E-05	< 4.24E-07	3.24E-05
		2-Methylhexane	591-76-4	1.31E-05	2.00E-05	1.41E-04	5.92E-05	6.49E-05	1.80E-05	7.29E-05	3.24E-05
		2-Methylpentane	107-83-5	< 3.86E-07	3.57E-06	3.25E-06	5.94E-06	< 4.65E-07	4.18E-06	< 1.37E-06	4.57E-06
		2,2-Dimethylbutane	75-83-2	< 3.86E-07	< 7.85E-08	< 4.28E-07	< 9.15E-08	< 4.65E-07	< 1.03E-07	< 4.26E-07	< 9.11E-08
		2,2-Dimethylpropane	463-82-1	< 3.88E-07	< 7.89E-08	< 4.30E-07	< 9.19E-08	< 4.67E-07	< 1.04E-07	< 4.28E-07	< 9.15E-08
		2,3-Dimethylpentane	565-59-3	4.61E-06	6.26E-06	5.11E-05	2.19E-05	< 4.63E-07	6.18E-06	< 1.87E-05	1.14E-05
		2,3,4-Trimethylpentane	565-75-3	2.65E-06	4.68E-06	9.78E-06	1.18E-05	< 4.62E-07	4.26E-06	< 4.29E-06	6.92E-06
		2,4-Dimethylhexane	589-43-5	1.07E-05	1.33E-05	3.95E-05	5.00E-05	3.97E-05	1.80E-05	3.00E-05	2.71E-05
		3-Methylhexane	589-34-4	2.23E-05	3.17E-05	2.13E-04	1.00E-04	3.17E-04	2.99E-05	1.84E-04	5.39E-05
		3-Methylpentane	96-14-0	< 3.86E-07	2.94E-06	6.84E-06	3.38E-06	< 4.65E-07	2.63E-06	< 2.56E-06	2.99E-06
		4-Methyl-1-pentene	691-37-2	< 3.77E-07	6.13E-07	< 4.18E-07	1.43E-06	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 7.14E-07
1		4-Methyl-2-pentanone	00108-10-1	1.16E-05	1.31E-04	9.30E-06	2.68E-05	3.66E-05	2.59E-05	1.92E-05	6.14E-05
1		Acetone	00067-64-1	3.68E-06	6.50E-06	1.15E-05	3.29E-06	3.97E-05	5.27E-06	1.83E-05	5.02E-06
1		Acetonitrile	01722-09-4	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
		Acetylene	74-86-2	< 3.50E-07	< 7.12E-08	< 3.88E-07	< 8.29E-08	< 4.21E-07	< 9.36E-08	< 3.86E-07	< 8.26E-08
1		Acrolein	00107-02-8	7.10E-07	1.91E-06	3.72E-06	8.42E-07	< 1.24E-06	< 1.38E-06	< 1.89E-06	< 1.38E-06
1		Acrylonitrile	00107-13-1	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
1		Allyl Chloride	00107-05-1	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
		a-Pinene	7785-70-8	< 3.66E-07	< 7.45E-08	< 4.06E-07	< 8.67E-08	< 4.41E-07	< 9.80E-08	< 4.04E-07	< 8.64E-08
		Benzene	71-43-2	< 3.50E-07	7.12E-07	< 3.88E-07	4.06E-07	1.20E-05	4.35E-07	< 4.25E-06	5.18E-07
1		Benzyl Chloride	00100-44-7	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
		b-Pinene	18172-67-3	< 1.83E-06	< 3.72E-07	< 2.03E-06	< 4.34E-07	< 2.20E-06	< 4.90E-07	< 2.02E-06	< 4.32E-07
1		Bromodichloromethane	00075-27-4	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		Bromoform	00075-25-2	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		Bromomethane	00074-83-9	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1	2	Butanal		2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-07	0.00E+00
1	2	C7H16 Branched Alkane		3.23E-06	5.26E-06	6.44E-05	1.53E-05	6.22E-06	5.19E-06	2.46E-05	8.58E-06
1	2	C8H16 Branched Alkene		0.00E+00	0.00E+00	0.00E+00	1.53E-05	7.78E-06	0.00E+00	2.59E-06	5.10E-06
1		Carbon Disulfide	00075-15-0	2.32E-07	2.10E-06	2.58E-06	9.95E-07	1.40E-06	3.63E-07	1.40E-06	1.15E-06
1		Carbon Tetrachloride	00056-23-5	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		Chlorobenzene	00108-90-7	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		Chlorodibromomethane	00124-48-1	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		Chloroethane	00075-00-3	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		Chloroform	00067-66-3	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		Chloromethane	00074-87-3	< 5.17E-07	1.71E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 4.92E-07
1		cis-1,2-Dichloroethene	00156-59-2	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1		cis-1,3-Dichloropropene	10061-01-5	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07

TRC

TABLE F.2-3
CARCASS GRINDING SPECIATED VOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	Average Inlet w/ non-detects	Average Outlet w/ non-detects
Speciated Volatiles (lb/lb rubber removed)									
cis-2-Butene	590-18-1	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
cis-2-Hexene	7688-21-3	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
cis-2-Pentene	627-20-3	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
Cumene	98-82-8	< 3.59E-07	< 7.30E-08	< 3.98E-07	< 8.50E-08	< 4.32E-07	< 9.61E-08	< 3.96E-07	< 8.47E-08
1 2 Cyclobutane		1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-07	0.00E+00
Cyclohexane	110-82-7	4.14E-06	6.13E-06	3.67E-05	2.68E-05	2.04E-04	8.07E-06	8.17E-05	1.37E-05
1 2 Cyclohexanone		0.00E+00	3.29E-06	0.00E+00	0.00E+00	7.78E-06	0.00E+00	2.59E-06	1.10E-06
Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	< 4.20E-07	5.13E-07	< 4.65E-07	7.96E-07	< 5.06E-07	6.75E-07	< 4.64E-07	6.61E-07
Cyclopentene	142-29-0	< 3.66E-07	2.01E-06	< 4.06E-07	4.77E-06	< 4.41E-07	2.16E-06	< 4.04E-07	2.98E-06
1 Dichlorodifluoromethane	00075-71-8	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	3.29E-07	< 5.70E-07	< 4.89E-07
1 2 Dimethylcyclophexane		4.52E-06	5.26E-06	1.43E-05	7.65E-06	0.00E+00	5.19E-06	6.28E-06	6.03E-06
d-Limonene	5989-27-5	< 1.83E-06	7.45E-07	< 2.03E-06	4.77E-06	< 2.20E-06	1.37E-06	< 2.02E-06	2.30E-06
1 Epichlorohydrin	00106-89-8	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
Ethane	74-84-0	< 4.04E-07	< 8.22E-08	< 4.48E-07	< 9.57E-08	< 4.87E-07	< 1.08E-07	< 4.46E-07	< 9.54E-08
1 2 Ethanol		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	1.73E-06	5.19E-06	5.76E-07
Ethylacetylene	107-00-6	< 3.63E-07	< 7.39E-08	< 4.03E-07	< 8.61E-08	< 4.38E-07	< 9.73E-08	< 4.01E-07	< 8.58E-08
Ethylbenzene	100-41-4	< 3.56E-07	< 7.25E-08	< 3.95E-07	< 8.45E-08	< 4.29E-07	< 9.55E-08	< 3.94E-07	< 8.42E-08
Ethylene	74-85-1	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
1 2 Heptane		2.58E-05	3.94E-05	1.43E-04	7.65E-05	4.67E-05	4.32E-05	7.19E-05	5.31E-05
1 Hexachlorobutadiene	00087-68-3	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
Isobutane	75-28-5	< 3.90E-07	< 7.94E-08	< 4.33E-07	< 9.25E-08	< 4.70E-07	< 1.05E-07	< 4.31E-07	< 9.22E-08
Isobutylene + 1-Butene	115-11-7/106-98-9	< 3.77E-07	1.34E-06	< 4.18E-07	5.81E-07	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 6.74E-07
Isooctane	540-84-1	3.57E-06	5.85E-06	2.89E-05	2.32E-05	< 4.62E-07	7.19E-06	< 1.10E-05	1.21E-05
Isopentane	78-78-4	1.05E-05	1.34E-05	2.10E-05	7.81E-06	< 4.67E-07	1.61E-05	< 1.07E-05	1.24E-05
Isoprene	78-79-5	< 3.66E-07	2.98E-06	< 4.06E-07	9.54E-06	< 4.41E-07	2.55E-06	< 4.04E-07	5.02E-06
Methylacetylene	74-99-7	< 3.50E-07	< 7.12E-08	< 3.88E-07	< 8.29E-08	< 4.21E-07	< 9.36E-08	< 3.86E-07	< 8.26E-08
Methylcyclohexane	108-87-2	3.35E-05	4.98E-05	2.17E-04	1.74E-04	1.84E-04	6.05E-05	1.45E-04	9.48E-05
Methylcyclopentane	96-37-7	3.62E-06	6.90E-06	1.80E-05	9.38E-06	1.07E-05	5.55E-06	1.07E-05	7.28E-06
1 Methylene Chloride	00075-09-2	2.39E-03	3.22E-04	5.44E-03	1.91E-05	4.75E-03	4.06E-05	4.19E-03	1.27E-04
1 2 Methylheptane		6.46E-06	6.57E-06	2.86E-05	2.30E-05	1.56E-05	8.65E-06	1.69E-05	1.27E-05
1 2 Methylhexane		3.23E-05	3.29E-05	1.43E-04	9.18E-05	3.89E-05	3.46E-05	7.14E-05	5.31E-05
m-Ethyltoluene	620-14-4	< 3.59E-07	< 7.30E-08	< 3.98E-07	< 8.50E-08	< 4.32E-07	< 9.61E-08	< 3.96E-07	< 8.47E-08
m-Xylene + p-Xylene	108-38-3/106-42-3	3.42E-06	1.38E-06	3.04E-06	9.72E-07	< 4.29E-07	1.00E-06	< 2.30E-06	1.12E-06
n-Butane	106-97-8	< 3.90E-07	3.18E-06	< 4.33E-07	1.34E-06	< 4.70E-07	3.14E-06	< 4.31E-07	2.55E-06
n-Decane	124-18-5	< 1.91E-06	< 3.89E-07	< 2.12E-06	< 4.53E-07	< 2.30E-06	< 5.12E-07	< 2.11E-06	< 4.51E-07
n-Heptane	142-82-5	3.84E-05	5.09E-05	3.07E-04	1.91E-04	3.52E-04	5.66E-05	2.32E-04	9.96E-05
n-Hexane	110-54-3	1.43E-05	7.85E-06	3.33E-05	1.28E-05	< 4.65E-07	8.27E-06	< 1.60E-05	9.64E-06
n-Nonane	111-84-2	< 3.83E-07	< 7.79E-08	< 4.24E-07	< 9.07E-08	< 4.61E-07	< 1.03E-07	< 4.23E-07	< 9.04E-08
n-Octane	111-65-9	3.80E-06	4.29E-06	7.65E-06	5.00E-06	< 4.62E-07	1.49E-06	< 3.97E-06	3.59E-06
n-Pentane	109-66-0	< 3.88E-07	2.21E-06	< 4.30E-07	3.86E-06	7.24E-06	4.36E-06	< 2.69E-06	3.48E-06
n-Propylbenzene	103-65-1	< 3.59E-07	< 7.30E-08	< 3.98E-07	< 8.50E-08	< 4.32E-07	< 9.61E-08	< 3.96E-07	< 8.47E-08
1 2 Octane		5.17E-06	4.60E-06	1.43E-05	0.00E+00	0.00E+00	0.00E+00	6.49E-06	1.53E-06
o-Ethyltoluene	611-14-3	< 1.79E-06	< 3.65E-07	< 1.99E-06	< 4.25E-07	< 2.16E-06	< 4.80E-07	< 1.98E-06	< 4.23E-07
o-Xylene	95-47-6	< 3.56E-07	< 7.25E-08	< 3.95E-07	< 8.45E-08	< 4.29E-07	< 9.55E-08	< 3.94E-07	< 8.42E-08
p-Cymene	99-87-6	< 1.80E-06	< 3.67E-07	< 2.00E-06	< 4.27E-07	< 2.17E-06	< 4.83E-07	< 1.99E-06	< 4.26E-07
1 2 Pentane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-06	0.00E+00	8.65E-07
p-Ethyltoluene	622-96-8	< 3.59E-07	< 7.30E-08	< 3.98E-07	< 8.50E-08	< 4.32E-07	< 9.61E-08	< 3.96E-07	< 8.47E-08
Propane	74-98-6	< 3.95E-07	< 8.03E-08	< 4.38E-07	< 9.36E-08	< 4.76E-07	< 1.06E-07	< 4.36E-07	< 9.32E-08
Propylene	115-07-1	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
1 Propylene Oxide	00075-56-9	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
Styrene	100-42-5	< 3.50E-07	< 7.12E-08	< 3.88E-07	< 8.29E-08	< 4.21E-07	< 9.36E-08	< 3.86E-07	< 8.26E-08
1 t-Butyl Methyl Ether	01634-04-4	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
1 Tetrachloroethene	00127-18-4	< 5.17E-07	3.42E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	5.62E-07	< 5.70E-07	< 5.05E-07
Toluene	108-88-3	7.07E-03	9.35E-04	1.02E-02	1.72E-04	1.15E-02	1.47E-04	9.59E-03	4.18E-04
1 trans-1,2-Dichloroethene	00156-60-5	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1 trans-1,2-Dichloropropene	10061-01-5	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
trans-2-Butene	624-64-6	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
trans-2-Hexene	4050-45-7	< 3.77E-07	6.52E-07	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 2.81E-07
trans-2-Pentene	646-04-8	< 3.77E-07	< 7.67E-08	< 4.18E-07	< 8.93E-08	< 4.54E-07	< 1.01E-07	< 4.16E-07	< 8.90E-08
1 Trichloroethene	00079-01-6	< 5.17E-07	< 5.26E-07	3.58E-06	5.05E-06	2.02E-06	1.47E-06	< 2.04E-06	< 2.35E-06
1 Trichlorofluoromethane	00075-69-4	4.07E-06	1.25E-06	4.94E-06	< 6.12E-07	6.46E-06	< 6.92E-07	5.15E-06	< 8.51E-07
1 Trichlortrifluoroethane	00076-13-1	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1 Vinyl Acetate	00108-05-4	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
1 Vinyl Chloride	00075-01-4	< 5.17E-07	< 5.26E-07	< 5.73E-07	< 6.12E-07	< 6.22E-07	< 6.92E-07	< 5.70E-07	< 6.10E-07
Total Detected		1.04E-02	1.88E-03	1.82E-02	1.30E-03	1.86E-02	6.44E-04	1.57E-02	1.27E-03
Total with non-detects		< 1.05E-02	< 1.91E-03	< 1.83E-02	< 1.34E-03	< 1.87E-02	< 6.86E-04	< 1.58E-02	< 1.31E-03

1 TO14 Compound

2 Tenatively Identified Compound

TRC

TABLE F.2-4
CARCASS GRINDING SULFUR SUMMARY

Compound	CAS Numbers	Run 1 Inlet	Run 1 Outlet	Run 2 Inlet	Run 2 Outlet	Run 3 Inlet	Run 3 Outlet	AVERAGE Inlet w/ non-detects	AVERAGE Outlet w/ non-detects
Sulfur (µg/m³)									
Carbonyl Sulfide	463-58-1	109	56.2	124	< 9.80	131	< 9.80	121.33	< 25.27
Methyl Mercaptan	74-93-1	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90	< 7.90
Ethyl Mercaptan	75-08-1	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.00	< 10.00
Dimethyl Sulfide	75-18-3	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.00	< 10.00
Carbon Disulfide	75-15-0	< 12.0	20.0	36.0	< 12.0	16.4	< 12.0	< 21.47	< 14.67
Isopropyl Mercaptan	75-33-2	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.00	< 12.00
tert-Butyl Mercaptan	75-66-1	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.00	< 15.00
n-Propyl Mercaptan	107-03-9	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.00	< 12.00
Ethyl Methyl Sulfide	624-89-5	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.00	< 12.00
Thiophene	110-02-1	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.00	< 14.00
Isobutyl Mercaptan	513-44-0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.00	< 15.00
Diethyl Sulfide	352-93-2	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.00	< 15.00
n-Butyl Mercaptan	109-79-5	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.00	< 15.00
Dimethyl Disulfide	624-92-0	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70	< 7.70
3-Methylthiophene	616-44-4	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.0	< 16.00	< 16.00
Tetrahydrothiophene	110-01-0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.00	< 14.00
2-Ethylthiophene	872-55-9	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.00	< 18.00
2,5-Dimethylthiophene	638-02-8	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.00	< 18.00
Diethyl Disulfide	110-81-6	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.00	< 10.00
Total Detected		109	76.2	160	0.0	147.4	0.0	138.80	25.40
Total with non-detects		< 342.6	< 297.8	< 381.6	< 243.4	< 369	< 243.4	< 364.40	< 261.53
Sulfur (lbs/hr)									
Carbonyl Sulfide	463-58-1	9.26E-04	4.86E-04	1.01E-03	< 8.54E-05	1.03E-03	< 8.58E-05	9.89E-04	< 2.19E-04
Methyl Mercaptan	74-93-1	< 6.71E-05	< 6.83E-05	< 6.43E-05	< 6.88E-05	< 6.22E-05	< 6.91E-05	< 6.46E-05	< 6.88E-05
Ethyl Mercaptan	75-08-1	< 8.50E-05	< 8.65E-05	< 8.14E-05	< 8.71E-05	< 7.87E-05	< 8.75E-05	< 8.17E-05	< 8.70E-05
Dimethyl Sulfide	75-18-3	< 8.50E-05	< 8.65E-05	< 8.14E-05	< 8.71E-05	< 7.87E-05	< 8.75E-05	< 8.17E-05	< 8.70E-05
Carbon Disulfide	75-15-0	< 1.02E-04	1.73E-04	2.93E-04	< 1.05E-04	1.29E-04	< 1.05E-04	< 1.75E-04	< 1.28E-04
Isopropyl Mercaptan	75-33-2	< 1.02E-04	< 1.04E-04	< 9.77E-05	< 1.05E-04	< 9.45E-05	< 1.05E-04	< 9.81E-05	< 1.04E-04
tert-Butyl Mercaptan	75-66-1	< 1.27E-04	< 1.30E-04	< 1.22E-04	< 1.31E-04	< 1.18E-04	< 1.31E-04	< 1.23E-04	< 1.31E-04
n-Propyl Mercaptan	107-03-9	< 1.02E-04	< 1.04E-04	< 9.77E-05	< 1.05E-04	< 9.45E-05	< 1.05E-04	< 9.81E-05	< 1.04E-04
Ethyl Methyl Sulfide	624-89-5	< 1.02E-04	< 1.04E-04	< 9.77E-05	< 1.05E-04	< 9.45E-05	< 1.05E-04	< 9.81E-05	< 1.04E-04
Thiophene	110-02-1	< 1.19E-04	< 1.21E-04	< 1.14E-04	< 1.22E-04	< 1.10E-04	< 1.23E-04	< 1.14E-04	< 1.22E-04
Isobutyl Mercaptan	513-44-0	< 1.27E-04	< 1.30E-04	< 1.22E-04	< 1.31E-04	< 1.18E-04	< 1.31E-04	< 1.23E-04	< 1.31E-04
Diethyl Sulfide	352-93-2	< 1.27E-04	< 1.30E-04	< 1.22E-04	< 1.31E-04	< 1.18E-04	< 1.31E-04	< 1.23E-04	< 1.31E-04
n-Butyl Mercaptan	109-79-5	< 1.27E-04	< 1.30E-04	< 1.22E-04	< 1.31E-04	< 1.18E-04	< 1.31E-04	< 1.23E-04	< 1.31E-04
Dimethyl Disulfide	624-92-0	< 6.54E-05	< 6.66E-05	< 6.27E-05	< 6.71E-05	< 6.06E-05	< 6.74E-05	< 6.29E-05	< 6.70E-05
3-Methylthiophene	616-44-4	< 1.36E-04	< 1.38E-04	< 1.30E-04	< 1.39E-04	< 1.26E-04	< 1.40E-04	< 1.31E-04	< 1.39E-04
Tetrahydrothiophene	110-01-0	< 1.19E-04	< 1.21E-04	< 1.14E-04	< 1.22E-04	< 1.10E-04	< 1.23E-04	< 1.14E-04	< 1.22E-04
2-Ethylthiophene	872-55-9	< 1.53E-04	< 1.56E-04	< 1.47E-04	< 1.57E-04	< 1.42E-04	< 1.58E-04	< 1.47E-04	< 1.57E-04
2,5-Dimethylthiophene	638-02-8	< 1.53E-04	< 1.56E-04	< 1.47E-04	< 1.57E-04	< 1.42E-04	< 1.58E-04	< 1.47E-04	< 1.57E-04
Diethyl Disulfide	110-81-6	< 8.50E-05	< 8.65E-05	< 8.14E-05	< 8.71E-05	< 7.87E-05	< 8.75E-05	< 8.17E-05	< 8.70E-05
Total Detected		9.26E-04	6.59E-04	1.30E-03	0.0	1.16E-03	0.0	1.13E-03	2.20E-04
Total with non-detects		< 2.91E-03	< 2.58E-03	< 3.11E-03	< 2.12E-03	< 2.91E-03	< 2.13E-03	< 2.98E-03	< 2.28E-03
Sulfur (lbs/lb rubber removed)									
Carbonyl Sulfide	463-58-1	7.04E-06	3.69E-06	8.87E-06	< 7.50E-07	1.02E-05	< 8.47E-07	8.70E-06	< 1.76E-06
Methyl Mercaptan	74-93-1	< 5.10E-07	< 5.19E-07	< 5.65E-07	< 6.05E-07	< 6.15E-07	< 6.83E-07	< 5.63E-07	< 6.02E-07
Ethyl Mercaptan	75-08-1	< 6.46E-07	< 6.57E-07	< 7.16E-07	< 7.65E-07	< 7.78E-07	< 8.65E-07	< 7.13E-07	< 7.62E-07
Dimethyl Sulfide	75-18-3	< 6.46E-07	< 6.57E-07	< 7.16E-07	< 7.65E-07	< 7.78E-07	< 8.65E-07	< 7.13E-07	< 7.62E-07
Carbon Disulfide	75-15-0	< 7.75E-07	1.31E-06	2.58E-06	< 9.18E-07	1.28E-06	< 1.04E-06	< 1.54E-06	< 1.09E-06
Isopropyl Mercaptan	75-33-2	< 7.75E-07	< 7.88E-07	< 8.59E-07	< 9.18E-07	< 9.34E-07	< 1.04E-06	< 8.56E-07	< 9.15E-07
tert-Butyl Mercaptan	75-66-1	< 9.68E-07	< 9.86E-07	< 1.07E-06	< 1.15E-06	< 1.17E-06	< 1.30E-06	< 1.07E-06	< 1.14E-06
n-Propyl Mercaptan	107-03-9	< 7.75E-07	< 7.88E-07	< 8.59E-07	< 9.18E-07	< 9.34E-07	< 1.04E-06	< 8.56E-07	< 9.15E-07
Ethyl Methyl Sulfide	624-89-5	< 7.75E-07	< 7.88E-07	< 8.59E-07	< 9.18E-07	< 9.34E-07	< 1.04E-06	< 8.56E-07	< 9.15E-07
Thiophene	110-02-1	< 9.04E-07	< 9.20E-07	< 1.00E-06	< 1.07E-06	< 1.09E-06	< 1.21E-06	< 9.98E-07	< 1.07E-06
Isobutyl Mercaptan	513-44-0	< 9.68E-07	< 9.86E-07	< 1.07E-06	< 1.15E-06	< 1.17E-06	< 1.30E-06	< 1.07E-06	< 1.14E-06
Diethyl Sulfide	352-93-2	< 9.68E-07	< 9.86E-07	< 1.07E-06	< 1.15E-06	< 1.17E-06	< 1.30E-06	< 1.07E-06	< 1.14E-06
n-Butyl Mercaptan	109-79-5	< 9.68E-07	< 9.86E-07	< 1.07E-06	< 1.15E-06	< 1.17E-06	< 1.30E-06	< 1.07E-06	< 1.14E-06
Dimethyl Disulfide	624-92-0	< 4.97E-07	< 5.06E-07	< 5.51E-07	< 5.89E-07	< 5.99E-07	< 6.66E-07	< 5.49E-07	< 5.87E-07
3-Methylthiophene	616-44-4	< 1.03E-06	< 1.05E-06	< 1.15E-06	< 1.22E-06	< 1.24E-06	< 1.38E-06	< 1.14E-06	< 1.22E-06
Tetrahydrothiophene	110-01-0	< 9.04E-07	< 9.20E-07	< 1.00E-06	< 1.07E-06	< 1.09E-06	< 1.21E-06	< 9.98E-07	< 1.07E-06
2-Ethylthiophene	872-55-9	< 1.16E-06	< 1.18E-06	< 1.29E-06	< 1.38E-06	< 1.40E-06	< 1.56E-06	< 1.28E-06	< 1.37E-06
2,5-Dimethylthiophene	638-02-8	< 1.16E-06	< 1.18E-06	< 1.29E-06	< 1.38E-06	< 1.40E-06	< 1.56E-06	< 1.28E-06	< 1.37E-06
Diethyl Disulfide	110-81-6	< 6.46E-07	< 6.57E-07	< 7.16E-07	< 7.65E-07	< 7.78E-07	< 8.65E-07	< 7.13E-07	< 7.62E-07
Total Detected		7.04E-06	5.01E-06	1.15E-05	0.0	1.15E-05	0.0	9.99E-06	1.67E-06
Total with non-detects		< 2.21E-05	< 1.96E-05	< 2.73E-05	< 1.86E-05	< 2.87E-05	< 2.10E-05	< 2.60E-05	< 1.97E-05

TRC

TABLE F.2-5
CARCASS GRINDING METALS SUMMARY

	Run 1		Run 2		Run 3		AVERAGE	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet w/ non-detects	Outlet w/ non-detects
Metals (µg)*								
Cr	37.25	< 2.50	23.75	0.50	18.00	1.25	26.33	< 1.42
Cu	74.25	7.25	46.00	21.25	50.50	11.75	56.92	13.42
Mg	9,239.25	16.00	5,039.25	12.00	3,164.25	16.75	5,814.25	14.92
Ni	69.75	< 5.00	20.75	< 5.00	23.25	< 5.00	37.92	< 5.00
Zn	377,500.00	113.20	204,500.00	87.00	162,800.00	96.25	248,266.67	98.82
Cd	23.33	0.45	12.83	0.47	11.01	0.49	15.72	0.47
Pb	48.17	0.73	30.92	0.55	30.92	2.19	36.67	1.16
Total Detected	386,992.00	137.63	209,673.50	121.77	166,097.93	128.68	254,254.47	129.36
Total with non-detects	386,992.00	< 145.13	209,673.50	< 126.77	166,097.93	< 133.68	254,254.47	< 135.19
Metals (µg/m³)								
Cr	28.94	< 1.64	18.97	0.32	14.63	0.83	20.84	< 0.93
Cu	57.68	4.75	36.74	13.73	41.04	7.79	45.15	8.76
Mg	7,177.94	10.49	4,024.33	7.75	2,571.51	11.10	4,591.26	9.78
Ni	54.19	< 3.28	16.57	< 3.23	18.89	< 3.31	29.88	< 3.27
Zn	293,278.53	74.20	163,312.95	56.21	132,303.51	63.79	196,298.33	64.73
Cd	18.13	0.29	10.25	0.31	8.95	0.32	12.44	0.31
Pb	37.42	0.48	24.69	0.36	25.13	1.45	29.08	0.76
Total Detected	300,652.83	90.21	167,444.48	78.67	134,983.66	85.28	201,026.99	84.72
Total with non-detects	300,652.83	< 95.12	167,444.48	< 81.91	134,983.66	< 88.59	201,026.99	< 88.54
Metals (lb/hr)								
Cr	2.63E-04	< 1.39E-05	1.69E-04	1.81E-05	1.31E-04	2.29E-05	1.88E-04	< 1.83E-05
Cu	5.29E-04	7.49E-05	3.34E-04	1.53E-04	3.58E-04	1.03E-04	4.07E-04	1.10E-04
Mg	6.08E-02	1.48E-04	3.23E-02	1.27E-04	2.01E-02	1.58E-04	3.77E-02	1.44E-04
Ni	4.59E-04	< 2.77E-05	1.33E-04	< 2.79E-05	1.47E-04	< 2.86E-05	2.46E-04	< 2.81E-05
Zn	2.48E+00	6.28E-04	1.31E+00	4.85E-04	1.03E+00	5.51E-04	1.61E+00	5.55E-04
Cd	1.54E-04	2.87E-06	8.24E-05	3.02E-06	7.00E-05	3.19E-06	1.02E-04	3.03E-06
Pb	3.19E-04	5.91E-06	2.00E-04	4.92E-06	1.97E-04	1.45E-05	2.39E-04	8.43E-06
Total	2.55E+00	8.60E-04	1.34E+00	7.91E-04	1.05E+00	8.53E-04	1.64E+00	8.34E-04
	2.55E+00	< 9.01E-04	1.34E+00	< 8.19E-04	1.05E+00	< 8.81E-04	1.64E+00	< 8.67E-04
Metals (lb/lb rubber removed)								
Cr	2.00E-06	< 1.05E-07	1.49E-06	1.59E-07	1.30E-06	2.26E-07	1.59E-06	< 1.64E-07
Cu	4.02E-06	5.69E-07	2.93E-06	1.35E-06	3.54E-06	1.02E-06	3.50E-06	9.78E-07
Mg	4.62E-04	1.13E-06	2.83E-04	1.11E-06	1.98E-04	1.56E-06	3.15E-04	1.27E-06
Ni	3.48E-06	< 2.11E-07	1.16E-06	< 2.45E-07	1.45E-06	< 2.83E-07	2.03E-06	< 2.46E-07
Zn	1.89E-02	4.77E-06	1.15E-02	4.26E-06	1.02E-02	5.45E-06	1.35E-02	4.83E-06
Cd	1.17E-06	2.18E-08	7.24E-07	2.66E-08	6.92E-07	3.16E-08	8.62E-07	2.66E-08
Pb	2.42E-06	4.49E-08	1.75E-06	4.32E-08	1.95E-06	1.43E-07	2.04E-06	7.70E-08
Total Detected	1.93E-02	6.53E-06	1.18E-02	6.95E-06	1.04E-02	8.43E-06	1.38E-02	7.30E-06
Total with non-detects	1.93E-02	< 6.85E-06	1.18E-02	< 7.19E-06	1.04E-02	< 8.71E-06	1.38E-02	< 7.58E-06

* - Blank Corrected

TRC

TABLE F.2-6

CARCASS GRINDING POM SUMMARY

	Run-1		Run-2		Run-3		Averages	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
POM- (mg)	14.8	26.1	21.3	8.4	18.5	21.6	18.2	18.7
Sample Volume (dscf)	60.592	51.835	54.755	53.271	54.906	53.266	56.751	52.791
POM- (mg/m³)	8.62	17.78	13.74	5.57	11.90	14.32	11.42	12.56
Flowrate (dscfm)	2276	2271	2166	2345	2089	2333	2177	2316
POM (lb/hr)	7.35E-02	1.51E-01	1.11E-01	4.89E-02	9.31E-02	1.25E-01	9.27E-02	1.08E-01
Run Time (min)	84	84	84	84	84	84	84	84
Rubber Removed (lbs/hr)	131.65	131.65	113.80	113.80	101.21	101.21	115.55	115.55
POM (lb/lb rubber removed)	5.59E-04	1.15E-03	9.79E-04	4.30E-04	9.20E-04	1.24E-03	8.19E-04	9.38E-04

TRC

TABLE F.2-7

CARCASS GRINDING PARTICULATE MATTER SUMMARY

	Run-1		Run-2		Run-3		Averages	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Particulate Matter - (mg)	11340.9	27.5	10112.1	23.7	8037.2	24.4	9830.1	25.2
Sample Volume (dscf)	45.451	53.873	44.216	54.654	43.450	53.282	44.372	53.936
Flowrate (dscfm)	2260	2259	2135	2302	2075	2308	2157	2290
PM- (grain/dscf)	3.8506	0.0079	3.5293	0.0067	2.8546	0.0071	3.4115	0.0072
PM- (mg/m³)	8810.7	18.02	8075.5	15.31	6531.6	16.2	7805.9	16.5
PM (lb/hr)	7.46E+01	1.53E-01	6.46E+01	1.32E-01	5.08E+01	1.40E-01	6.33E+01	1.41E-01
Run Time (min)	84	84	84	84	84	84	÷ 84	84
Rubber Removed (lbs/hr)	131.65	131.65	113.8	113.8	101.21	101.21	115.55	115.55
PM (lb/lb rubber removed)	5.67E-01	1.16E-03	5.68E-01	1.16E-03	5.02E-01	1.38E-03	5.45E-01	1.23E-03

Cyclone Hopper catches: 9-2-~~93~~ 94

~~94~~ 104 ~~94~~.5 Kg → ~~229.9~~ lbs 230.4 lbs / 106 min = 130.43 lbs/hr

104.1 Kg

85.2 Kg

Rory sidewall grinding .061 lb/tire

.05 lb/tire for force grinding

TRC

Section F.3

Sidewall/Whitewall Grinding

TRC

Section F.3

Sidewall/Whitewall Grinding

Table Number	Title	No. of Pages
F.3-1	Sidewall Grinding Summary Table	1
F.3-2	Sidewall Grinding Speciated Semivolatiles Summary	6
F.3-3	Sidewall Grinding Speciated Volatiles Summary	6
F.3-4	Sidewall Grinding Sulfur Summary	1
F.3-5	Sidewall Grinding Metals Summary	1
F.3-6	Sidewall Grinding Particulate Matter Summary	1
F.3-7	Sidewall Grinding POM Summary	1

TRC

TABLE F.3-1
SIDEWALL/WHITEWALL GRINDING SUMMARY

	Run 1		Run 2		Run 3		Averages	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Total Number of Tires	412		403		289		368	
Total Rubber Removed (lbs/run)	29.0		30.2		15.0		24.7	
Total Rubber Removed (lbs/hr)	14.5		13.9		10.0		12.8	
Run Time (min)	120		130		90		113	
Total VOCs (ppm/run)	4.6		2.4		9.7		5.6	
Total VOCs (lbs/hr)	1.44E-01		7.88E-02		3.17E-01		1.80E-01	
Total VOCs (lbs/lb rubber removed)	9.94E-03		5.65E-03		3.16E-02		1.57E-02	
Standard Deviation (lbs/lb rubber removed)	3.37E-03		2.57E-03		1.78E-02		7.91E-03	
Total Speciated Semivols. (µg/m³)	481.36		461.06		233.97		392.13	
Total Speciated Semivols. (lbs/hr)	8.39E-03		8.28E-03		4.19E-03		6.95E-03	
Total Speciated Semivols. (lbs/lb rubber removed) Detected	5.79E-04		5.94E-04		4.19E-04		5.31E-04	
Total Speciated Semivols. (lbs/lb rubber removed) with non-detects	<9.97E-04		<1.24E-03		<1.13E-03		<1.12E-03	
Total Speciated Vols. (µg/m³)	8181.65		8786.28		4768.40		7245.45	
Total Speciated Vols. (lbs/hr)	1.43E-01		1.58E-01		8.53E-02		1.29E-01	
Total Speciated Vols. (lbs/lb rubber removed) Detected	9.84E-03		1.13E-02		8.53E-03		9.90E-03	
Total Speciated Vols. (lbs/lb rubber removed) with non-detects	<1.14E-02		<1.30E-02		<1.07E-02		<1.17E-02	
Total Sulfur (µg/m³)	ND		ND		ND		ND	
Total Sulfur (lbs/hr)	ND		ND		ND		ND	
Total Sulfur (lbs/lb rubber removed) Detected	ND		ND		ND		ND	
Total Sulfur (lbs/lb rubber removed) with non-detects	<2.93E-04		<3.14E-04		<4.36E-04		<3.47E-04	
Total Metals (µg/m³)	20202.49	59.66	17054.48	335.24	9249.94	97.85	15502.30	164.25
Total Metals (lbs/hr)	3.46E-01	8.70E-04	3.04E-01	5.11E-03	1.64E-01	1.48E-03	2.71E-01	2.49E-03
Total Metals (lbs/lb rubber removed) Detected	2.39E-02	6.00E-05	2.18E-02	3.66E-04	1.64E-02	1.48E-04	2.07E-02	1.92E-04
Total Metals (lbs/lb rubber removed) with non-detects	<2.39E-02	6.00E-05	<2.18E-02	3.66E-04	<1.64E-02	1.48E-04	<2.07E-02	1.92E-04
Total PM (mg/m³)	1198.00	6.66	1011.2	14.57	543.6	4.7	917.57	8.63
Total PM (lbs/hr)	2.05E+01	9.71E-02	1.80E+01	2.22E-01	9.62E+00	7.08E-02	1.61E+01	1.30E-01
Total PM (lbs/lb rubber removed)	1.42E+00	6.69E-03	1.29E+00	1.59E-02	9.62E-01	7.08E-03	1.23E+00	9.90E-03
POM (mg/m³)	138.22	6.82	94.47	11.21	53.56	22.32	95.42	13.45
POM (lb/hr)	2.30E+00	9.51E-02	1.69E+00	1.63E-01	9.48E-01	3.31E-01	1.64E+00	1.96E-01
POM (lb/lb rubber removed)	1.58E-01	6.56E-03	1.21E-01	1.17E-02	9.48E-02	3.31E-02	1.25E-01	1.71E-02

TRC

TABLE F.3-2
SIDEWALL/WHITEWALL GRINDING SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Semivolatiles (µg/m³)					
Pyridine	110-86-1	< 3.37	< 4.73	< 3.59	< 3.89
Phenol	108-95-2	2.75	2.43	22.78	9.32
bis(2-Chloroethyl)ether	111-44-4	< 3.54	< 4.98	< 3.78	< 4.10
2-Chlorophenol	95-57-8	< 2.96	< 4.16	< 3.16	< 3.43
1,3-Dichlorobenzene	541-73-1	< 2.87	< 4.04	< 3.07	< 3.33
1,4-Dichlorobenzene	106-46-7	< 2.83	< 3.98	< 3.02	< 3.28
1,2-Dichlorobenzene	95-50-1	< 3.14	< 4.42	< 3.35	< 3.63
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.77	< 3.89	< 2.95	< 3.20
Benzyl alcohol	100-51-6	1.64	< 7.08	< 5.37	< 4.69
2-Methylphenol	95-48-7	< 3.57	< 5.02	< 3.81	< 4.13
3/4-Methylphenol	108-39-4/106-44-5	< 3.37	< 4.75	< 3.60	< 3.90
N-Nitroso-di-n-propylamine	621-64-7	< 5.84	< 8.21	< 6.23	< 6.76
Hexachloroethane	67-72-1	< 5.86	< 8.25	< 6.25	< 6.79
Nitrobenzene	98-95-3	< 3.11	< 4.04	< 3.29	< 3.48
Isophorone	78-59-1	< 1.63	< 2.12	< 1.73	< 1.83
2-Nitrophenol	88-75-5	< 5.23	< 6.79	< 5.52	< 5.85
2,4-Dimethylphenol	105-67-9	< 3.50	< 4.55	< 3.70	< 3.92
bis(2-Chloroethoxy)methane	111-91-1	< 2.71	< 3.51	< 2.86	< 3.03
Benzoic acid	65-85-0	53.44	35.37	46.18	45.00
2,4-Dichlorophenol	120-83-2	< 3.68	< 4.79	< 3.89	< 4.12
1,2,4-Trichlorobenzene	120-82-1	< 3.31	< 4.30	< 3.50	< 3.70
Naphthalene	91-20-3	4.00	1.54	2.59	2.71
4-Chloroaniline	106-47-8	2.81	1.40	< 2.62	< 2.28
Hexachlorobutadiene	87-68-3	< 6.20	< 8.05	< 6.56	< 6.94
4-Chloro-3-methylphenol	59-50-7	< 3.55	< 4.62	< 3.76	< 3.98
2-Methylnaphthalene	91-57-6	1.33	0.77	0.96	1.02
Hexachlorocyclopentadiene	77-47-4	< 5.60	< 8.04	< 6.61	< 6.75
2,4,6-Trichlorophenol	88-06-2	< 4.81	< 6.91	< 5.68	< 5.80
2,4,5-Trichlorophenol	95-95-4	< 4.30	< 6.17	< 5.07	< 5.18
2-Chloronaphthalene	91-58-7	< 1.66	< 2.39	< 1.97	< 2.01
2-Nitroaniline	88-74-4	< 4.99	< 7.16	< 5.89	< 6.01
Dimethylphthalate	131-11-3	< 1.46	< 2.09	< 1.72	< 1.76
2,6-Dinitrotoluene	606-20-2	< 5.67	< 8.15	< 6.70	< 6.84
2,4-Dinitrotoluene	121-14-2	< 3.79	< 5.45	< 4.48	< 4.57
Acenaphthylene	208-96-8	< 0.99	< 1.42	< 1.17	< 1.19
3-Nitroaniline	99-09-2	< 4.35	< 6.26	< 5.14	< 5.25
Acenaphthene	83-32-9	< 1.66	< 2.38	< 1.95	< 2.00
2,4-Dinitrophenol	105-67-9	< 12.46	< 17.91	< 14.71	< 15.03
4-Nitrophenol	100-02-7	< 10.61	< 15.25	< 12.53	< 12.80
Dibenzofuran	132-64-9	< 1.16	< 1.67	< 1.37	< 1.40
Diethylphthalate	84-66-2	< 1.29	0.73	< 1.52	< 1.18
4-Chlorophenyl-phenylether	70005-72-3	< 3.09	< 4.45	< 3.65	< 3.73
Fluorene	86-73-7	< 1.60	< 2.30	< 1.89	< 1.93
4-Nitroaniline	100-01-6	< 4.19	< 6.03	< 4.95	< 5.06
4,6-Dinitro-2-methylphenol	534-52-1	< 6.36	< 10.51	< 8.18	< 8.35
4-Bromophenyl-phenylether	101-55-3	< 4.90	< 8.09	< 6.30	< 6.43
Hexachlorobenzene	118-74-1	< 3.58	< 5.91	< 4.60	< 4.70
Pentachlorophenol	87-86-5	< 5.26	< 8.70	< 6.77	< 6.91
Phenanthrene	85-01-8	1.36	1.65	0.80	1.27
Anthracene	120-12-7	< 0.88	< 1.45	< 1.13	< 1.15
Di-n-butylphthalate	84-74-2	0.00	3.74	0.15	1.30
Fluoranthene	206-44-0	0.49	0.55	0.51	0.52
Pyrene	129-00-0	2.23	1.53	1.22	1.66
Butylbenzylphthalate	85-68-7	< 0.88	1.13	< 0.84	< 0.95
3,3'-Dichlorobenzidine	91-94-1	< 1.99	< 2.67	< 1.90	< 2.19
bis(2-Ethylhexyl)phthalate	117-81-7	18.61	25.45	0.00	14.69

TRC

TABLE F.3-2
SIDEWALL/WHITEWALL GRINDING SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Semivolatiles (µg/m³)					
Benzo(a)anthracene	56-55-3	< 0.63	< 0.84	< 0.60	< 0.69
Chrysene	218-01-9	0.81	0.84	0.56	0.74
Di-n-octylphthalate	117-84-0	< 0.60	0.57	0.00	< 0.39
Benzo(b)fluoranthene	205-99-2	< 0.88	< 0.99	< 0.70	< 0.86
Benzo(k)fluoranthene	207-08-9	< 0.97	< 1.09	< 0.77	< 0.95
Benzo(a)pyrene	50-32-8	< 0.97	< 1.09	< 0.77	< 0.94
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.75	< 0.85	< 0.60	< 0.73
Dibenz(a,h)anthracene	53-90-3	< 0.97	< 1.10	< 0.78	< 0.95
Benzo(g,h,i)perylene	191-24-2	< 0.82	< 0.92	< 0.65	< 0.80
n-Nitrosodimethylamine	62-75-9	< 5.74	< 8.08	< 6.13	< 6.65
Cumene	98-82-8	0.69	< 1.95	< 1.48	< 1.37
Aniline	62-53-3	380.30	373.90	153.37	302.52
Benzyl Chloride	100-44-7	< 2.00	< 2.81	< 2.13	< 2.31
Acetophenone	98-86-2	3.52	2.06	1.80	2.46
n-Nitrosomorpholine	59-89-2	< 5.06	< 7.11	< 5.40	< 5.86
o-Toluidine	95-53-4	< 2.40	< 3.37	< 2.56	< 2.77
N,N-Dimethylaniline	121-69-7	< 2.11	< 2.73	< 2.23	< 2.36
1,2-Dibromo-3-chloropropane	96-12-8	< 6.98	< 9.83	< 7.45	< 8.09
o-Anisidine	90-04-0	< 3.96	< 5.15	< 4.19	< 4.43
1,4-Phenylenediamine	106-50-3	< 4.23	< 5.49	< 4.47	< 4.73
N,N-Diethylaniline	91-66-7	< 1.96	< 2.75	< 2.08	< 2.26
a,a,a-Trichlorotoluene	98-07-7	< 3.00	< 3.89	< 3.17	< 3.35
Hydroquinone	123-31-9	< 3.21	< 4.17	< 3.39	< 3.59
2-Chloroacetophenone	1341-24-8	< 1.51	< 1.96	< 1.60	< 1.69
Biphenyl	92-52-4	< 1.49	< 2.14	< 1.76	< 1.79
Trifluralin	1582-09-8	< 7.25	< 10.42	< 8.56	< 8.74
4-Aminobiphenyl	92-67-1	< 1.15	< 1.90	< 1.48	< 1.51
Pentachloronitrobenzene	82-68-8	< 10.77	< 17.80	< 13.86	< 14.14
4-Nitrobiphenyl	92-93-3	< 2.23	< 3.68	< 2.87	< 2.92
Benzidine	92-87-5	< 1.15	< 1.54	< 1.09	< 1.26
4,4'-Methylenedianiline	101-77-9	< 2.26	< 3.03	< 2.15	< 2.48
Dimethylaminoazobenzene	60-11-7	< 1.34	< 1.80	< 1.28	< 1.47
3,3'-Dimethylbenzidine	119-93-7	< 1.09	< 1.47	< 1.04	< 1.20
3,3'-Dimethoxybenzidine	119-90-4	< 3.20	< 4.28	< 3.04	< 3.50
Methylene bis-chloroaniline	101-14-4	< 3.92	< 5.25	< 3.72	< 4.30
3-Furaldehyde	498-60-2	< 5.50	< 7.73	< 5.86	< 6.36
2-Furaldehyde	98-01-1	< 4.68	< 6.58	< 4.99	< 5.41
Cyclohexylamine	108-91-8	< 3.59	< 5.06	< 3.83	< 4.16
N-Nitrosodiethylamine	55-18-5	< 5.93	< 8.34	< 6.33	< 6.87
Cyclohexanone	108-94-1	< 2.89	< 4.06	< 3.08	< 3.35
1,3-Cyclooctadiene	1700-10-3	< 3.65	< 5.13	< 3.89	< 4.22
1,5-Cyclooctadiene	111-78-4	< 7.95	< 11.19	< 8.48	< 9.21
Camphene	79-92-5	< 4.03	< 5.67	< 4.30	< 4.66
Benzaldehyde	100-52-7	1.58	4.32	0.70	2.20
Benzonitrile	100-47-0	< 1.39	< 1.96	< 1.49	< 1.61
Isooctanol	26952-21-6	< 32.92	< 46.31	< 35.12	< 38.12
1,2,4-Trimethylbenzene	95-63-6	0.99	< 2.36	1.04	< 1.46
3-Methylstyrene	100-80-1	< 2.36	< 3.32	< 2.52	< 2.74
4-Methylstyrene	622-97-9	< 2.45	< 3.44	< 2.61	< 2.83
4-Chlorostyrene	1073-67-2	< 2.90	< 4.08	< 3.09	< 3.36
1-Dodecene	112-41-4	< 12.47	< 16.20	< 13.19	< 13.96
Phthalimide	85-41-6	4.09	3.07	1.33	2.83
Diphenylamine	122-39-4	0.74	< 2.54	< 2.09	< 1.79
Total Detected		481.36	461.06	233.97	392.13
Total with non-detects		< 829.24	< 962.13	< 629.10	< 806.82

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TABLE F.3-2
SIDEWALL/WHITEWALL GRINDING SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Semivolatiles (lb/hr)					
Pyridine	110-86-1	< 5.87E-05	< 8.50E-05	< 6.42E-05	< 6.93E-05
Phenol	108-95-2	4.79E-05	4.37E-05	4.08E-04	1.66E-04
bis(2-Chloroethyl)ether	111-44-4	< 6.17E-05	< 8.95E-05	< 6.76E-05	< 7.29E-05
2-Chlorophenol	95-57-8	< 5.16E-05	< 7.48E-05	< 5.65E-05	< 6.10E-05
1,3-Dichlorobenzene	541-73-1	< 5.01E-05	< 7.27E-05	< 5.49E-05	< 5.92E-05
1,4-Dichlorobenzene	106-46-7	< 4.94E-05	< 7.15E-05	< 5.40E-05	< 5.83E-05
1,2-Dichlorobenzene	95-50-1	< 5.47E-05	< 7.93E-05	< 5.99E-05	< 6.46E-05
2,2'-oxybis(1-Chloropropane)	108-60-1	< 4.82E-05	< 6.99E-05	< 5.28E-05	< 5.70E-05
Benzyl alcohol	100-51-6	2.85E-05	< 1.27E-04	< 9.61E-05	< 8.39E-05
2-Methylphenol	95-48-7	< 6.23E-05	< 9.02E-05	< 6.82E-05	< 7.35E-05
3/4-Methylphenol	108-39-4/106-44-5	< 5.88E-05	< 8.52E-05	< 6.44E-05	< 6.95E-05
N-Nitroso-di-n-propylamine	621-64-7	< 1.02E-04	< 1.48E-04	< 1.11E-04	< 1.20E-04
Hexachloroethane	67-72-1	< 1.02E-04	< 1.48E-04	< 1.12E-04	< 1.21E-04
Nitrobenzene	98-95-3	< 5.42E-05	< 7.26E-05	< 5.88E-05	< 6.19E-05
Isophorone	78-59-1	< 2.85E-05	< 3.80E-05	< 3.09E-05	< 3.25E-05
2-Nitrophenol	88-75-5	< 9.11E-05	< 1.22E-04	< 9.89E-05	< 1.04E-04
2,4-Dimethylphenol	105-67-9	< 6.10E-05	< 8.17E-05	< 6.63E-05	< 6.97E-05
bis(2-Chloroethoxy)methane	111-91-1	< 4.72E-05	< 6.31E-05	< 5.12E-05	< 5.38E-05
Benzoic acid	65-85-0	9.32E-04	6.35E-04	8.26E-04	7.98E-04
2,4-Dichlorophenol	120-83-2	< 6.42E-05	< 8.60E-05	< 6.97E-05	< 7.33E-05
1,2,4-Trichlorobenzene	120-82-1	< 5.76E-05	< 7.71E-05	< 6.26E-05	< 6.58E-05
Naphthalene	91-20-3	6.97E-05	2.77E-05	4.64E-05	4.79E-05
4-Chloroaniline	106-47-8	4.90E-05	2.52E-05	< 4.70E-05	< 4.04E-05
Hexachlorobutadiene	87-68-3	< 1.08E-04	< 1.45E-04	< 1.17E-04	< 1.23E-04
4-Chloro-3-methylphenol	59-50-7	< 6.19E-05	< 8.29E-05	< 6.73E-05	< 7.07E-05
2-Methylnaphthalene	91-57-6	2.32E-05	1.38E-05	1.71E-05	1.80E-05
Hexachlorocyclopentadiene	77-47-4	< 9.76E-05	< 1.44E-04	< 1.18E-04	< 1.20E-04
2,4,6-Trichlorophenol	88-06-2	< 8.39E-05	< 1.24E-04	< 1.02E-04	< 1.03E-04
2,4,5-Trichlorophenol	95-95-4	< 7.49E-05	< 1.11E-04	< 9.08E-05	< 9.22E-05
2-Chloronaphthalene	91-58-7	< 2.90E-05	< 4.30E-05	< 3.52E-05	< 3.57E-05
2-Nitroaniline	88-74-4	< 8.69E-05	< 1.29E-04	< 1.05E-04	< 1.07E-04
Dimethylphthalate	131-11-3	< 2.54E-05	< 3.76E-05	< 3.08E-05	< 3.12E-05
2,6-Dinitrotoluene	606-20-2	< 9.89E-05	< 1.46E-04	< 1.20E-04	< 1.22E-04
2,4-Dinitrotoluene	121-14-2	< 6.61E-05	< 9.78E-05	< 8.01E-05	< 8.13E-05
Acenaphthylene	208-96-8	< 1.72E-05	< 2.54E-05	< 2.09E-05	< 2.12E-05
3-Nitroaniline	99-09-2	< 7.58E-05	< 1.12E-04	< 9.20E-05	< 9.34E-05
Acenaphthene	83-32-9	< 2.89E-05	< 4.28E-05	< 3.50E-05	< 3.55E-05
2,4-Dinitrophenol	105-67-9	< 2.17E-04	< 3.22E-04	< 2.63E-04	< 2.67E-04
4-Nitrophenol	100-02-7	< 1.85E-04	< 2.74E-04	< 2.24E-04	< 2.28E-04
Dibenzofuran	132-64-9	< 2.02E-05	< 2.99E-05	< 2.45E-05	< 2.49E-05
Diethylphthalate	84-66-2	< 2.24E-05	1.31E-05	< 2.72E-05	< 2.09E-05
4-Chlorophenyl-phenylether	70005-72-3	< 5.39E-05	< 7.98E-05	< 6.53E-05	< 6.64E-05
Fluorene	86-73-7	< 2.79E-05	< 4.13E-05	< 3.38E-05	< 3.43E-05
4-Nitroaniline	100-01-6	< 7.31E-05	< 1.08E-04	< 8.87E-05	< 9.00E-05
4,6-Dinitro-2-methylphenol	534-52-1	< 1.11E-04	< 1.89E-04	< 1.46E-04	< 1.49E-04
4-Bromophenyl-phenylether	101-55-3	< 8.54E-05	< 1.45E-04	< 1.13E-04	< 1.14E-04
Hexachlorobenzene	118-74-1	< 6.23E-05	< 1.06E-04	< 8.23E-05	< 8.36E-05
Pentachlorophenol	87-86-5	< 9.17E-05	< 1.56E-04	< 1.21E-04	< 1.23E-04
Phenanthrene	85-01-8	2.36E-05	2.97E-05	1.42E-05	2.25E-05
Anthracene	120-12-7	< 1.53E-05	< 2.61E-05	< 2.02E-05	< 2.05E-05
Di-n-butylphthalate	84-74-2	0.00E+00	6.72E-05	2.64E-06	2.33E-05
Fluoranthene	206-44-0	8.56E-06	9.80E-06	9.16E-06	9.17E-06
Pyrene	129-00-0	3.89E-05	2.75E-05	2.18E-05	2.94E-05
Butylbenzylphthalate	85-68-7	< 1.54E-05	2.02E-05	< 1.50E-05	< 1.69E-05
3,3'-Dichlorobenzidine	91-94-1	< 3.48E-05	< 4.79E-05	< 3.39E-05	< 3.89E-05
bis(2-Ethylhexyl)phthalate	117-81-7	3.25E-04	4.57E-04	0.00E+00	2.61E-04

TRC

TABLE F.3-2
SIDEWALL/WHITEWALL GRINDING SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Semivolatiles (lb/hr)					
Benzo(a)anthracene	56-55-3	< 1.10E-05	< 1.51E-05	< 1.07E-05	< 1.23E-05
Chrysene	218-01-9	1.41E-05	1.51E-05	9.95E-06	1.31E-05
Di-n-octylphthalate	117-84-0	< 1.05E-05	1.03E-05	0.00E+00	< 6.90E-06
Benzo(b)fluoranthene	205-99-2	< 1.54E-05	< 1.78E-05	< 1.26E-05	< 1.53E-05
Benzo(k)fluoranthene	207-08-9	< 1.70E-05	< 1.96E-05	< 1.38E-05	< 1.68E-05
Benzo(a)pyrene	50-32-8	< 1.69E-05	< 1.95E-05	< 1.38E-05	< 1.67E-05
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.31E-05	< 1.52E-05	< 1.07E-05	< 1.30E-05
Dibenz(a,h)anthracene	53-90-3	< 1.70E-05	< 1.97E-05	< 1.39E-05	< 1.69E-05
Benzo(g,h,i)perylene	191-24-2	< 1.43E-05	< 1.65E-05	< 1.17E-05	< 1.41E-05
n-Nitrosodimethylamine	62-75-9	< 1.00E-04	< 1.45E-04	< 1.10E-04	< 1.18E-04
Cumene	98-82-8	1.20E-05	< 3.50E-05	< 2.65E-05	< 2.45E-05
Aniline	62-53-3	6.63E-03	6.72E-03	2.75E-03	5.36E-03
Benzyl Chloride	100-44-7	< 3.48E-05	< 5.04E-05	< 3.81E-05	< 4.11E-05
Acetophenone	98-86-2	6.15E-05	3.70E-05	3.23E-05	4.36E-05
n-Nitrosomorpholine	59-89-2	< 8.82E-05	< 1.28E-04	< 9.66E-05	< 1.04E-04
o-Toluidine	95-53-4	< 4.18E-05	< 6.05E-05	< 4.58E-05	< 4.94E-05
N,N-Dimethylaniline	121-69-7	< 3.67E-05	< 4.91E-05	< 3.99E-05	< 4.19E-05
1,2-Dibromo-3-chloropropane	96-12-8	< 1.22E-04	< 1.77E-04	< 1.33E-04	< 1.44E-04
o-Anisidine	90-04-0	< 6.91E-05	< 9.24E-05	< 7.50E-05	< 7.88E-05
1,4-Phenylenediamine	106-50-3	< 7.37E-05	< 9.86E-05	< 8.00E-05	< 8.41E-05
N,N-Diethylaniline	91-66-7	< 3.41E-05	< 4.94E-05	< 3.73E-05	< 4.02E-05
a,a,a-Trichlorotoluene	98-07-7	< 5.23E-05	< 7.00E-05	< 5.67E-05	< 5.97E-05
Hydroquinone	123-31-9	< 5.60E-05	< 7.49E-05	< 6.07E-05	< 6.39E-05
2-Chloroacetophenone	1341-24-8	< 2.63E-05	< 3.52E-05	< 2.86E-05	< 3.01E-05
Biphenyl	92-52-4	< 2.59E-05	< 3.84E-05	< 3.15E-05	< 3.19E-05
Trifluralin	1582-09-8	< 1.26E-04	< 1.87E-04	< 1.53E-04	< 1.56E-04
4-Aminobiphenyl	92-67-1	< 2.00E-05	< 3.41E-05	< 2.64E-05	< 2.68E-05
Pentachloronitrobenzene	82-68-8	< 1.88E-04	< 3.20E-04	< 2.48E-04	< 2.52E-04
4-Nitrobiphenyl	92-93-3	< 3.88E-05	< 6.61E-05	< 5.13E-05	< 5.21E-05
Benzidine	92-87-5	< 2.01E-05	< 2.77E-05	< 1.96E-05	< 2.25E-05
4,4'-Methylenedianiline	101-77-9	< 3.95E-05	< 5.44E-05	< 3.84E-05	< 4.41E-05
Dimethylaminoazobenzene	60-11-7	< 2.34E-05	< 3.24E-05	< 2.29E-05	< 2.62E-05
3,3'-Dimethylbenzidine	119-93-7	< 1.91E-05	< 2.63E-05	< 1.86E-05	< 2.13E-05
3,3'-Dimethoxybenzidine	119-90-4	< 5.57E-05	< 7.69E-05	< 5.43E-05	< 6.23E-05
Methylene bis-chloroaniline	101-14-4	< 6.84E-05	< 9.42E-05	< 6.67E-05	< 7.64E-05
3-Furaldehyde	498-60-2	< 9.58E-05	< 1.39E-04	< 1.05E-04	< 1.13E-04
2-Furaldehyde	98-01-1	< 8.15E-05	< 1.18E-04	< 8.93E-05	< 9.63E-05
Cyclohexylamine	108-91-8	< 6.26E-05	< 9.08E-05	< 6.86E-05	< 7.40E-05
N-Nitrosodiethylamine	55-18-5	< 1.03E-04	< 1.50E-04	< 1.13E-04	< 1.22E-04
Cyclohexanone	108-94-1	< 5.04E-05	< 7.30E-05	< 5.51E-05	< 5.95E-05
1,3-Cyclooctadiene	1700-10-3	< 6.36E-05	< 9.21E-05	< 6.96E-05	< 7.51E-05
1,5-Cyclooctadiene	111-78-4	< 1.39E-04	< 2.01E-04	< 1.52E-04	< 1.64E-04
Camphene	79-92-5	< 7.02E-05	< 1.02E-04	< 7.69E-05	< 8.30E-05
Benzaldehyde	100-52-7	2.75E-05	7.76E-05	1.25E-05	3.92E-05
Benzonitrile	100-47-0	< 2.43E-05	< 3.52E-05	< 2.66E-05	< 2.87E-05
Isooctanol	26952-21-6	< 5.74E-04	< 8.32E-04	< 6.29E-04	< 6.78E-04
1,2,4-Trimethylbenzene	95-63-6	1.72E-05	< 4.24E-05	1.86E-05	< 2.61E-05
3-Methylstyrene	100-80-1	< 4.12E-05	< 5.97E-05	< 4.51E-05	< 4.87E-05
4-Methylstyrene	622-97-9	< 4.26E-05	< 6.18E-05	< 4.67E-05	< 5.04E-05
4-Chlorostyrene	1073-67-2	< 5.06E-05	< 7.33E-05	< 5.53E-05	< 5.97E-05
1-Dodecene	112-41-4	< 2.17E-04	< 2.91E-04	< 2.36E-04	< 2.48E-04
Phthalimide	85-41-6	7.12E-05	5.52E-05	2.38E-05	5.01E-05
Diphenylamine	122-39-4	1.28E-05	< 4.57E-05	< 3.74E-05	< 3.20E-05
Total Detected		8.39E-03	8.28E-03	4.19E-03	6.95E-03
Total with non-detects		< 1.45E-02	< 1.73E-02	< 1.13E-02	< 1.43E-02

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TABLE F.3-2
SIDEWALL/WHITEWALL GRINDING SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Semivolatiles (lb/lb rubber removed)					
Pyridine	110-86-1	< 4.05E-06	< 6.10E-06	< 6.42E-06	< 5.52E-06
Phenol	108-95-2	3.30E-06	3.14E-06	4.08E-05	1.57E-05
bis(2-Chloroethyl)ether	111-44-4	< 4.26E-06	< 6.42E-06	< 6.76E-06	< 5.81E-06
2-Chlorophenol	95-57-8	< 3.56E-06	< 5.37E-06	< 5.65E-06	< 4.86E-06
1,3-Dichlorobenzene	541-73-1	< 3.46E-06	< 5.21E-06	< 5.49E-06	< 4.72E-06
1,4-Dichlorobenzene	106-46-7	< 3.40E-06	< 5.13E-06	< 5.40E-06	< 4.64E-06
1,2-Dichlorobenzene	95-50-1	< 3.77E-06	< 5.69E-06	< 5.99E-06	< 5.15E-06
2,2'-oxybis(1-Chloropropane)	108-60-1	< 3.32E-06	< 5.01E-06	< 5.28E-06	< 4.54E-06
Benzyl alcohol	100-51-6	1.97E-06	< 9.12E-06	< 9.61E-06	< 6.90E-06
2-Methylphenol	95-48-7	< 4.29E-06	< 6.47E-06	< 6.82E-06	< 5.86E-06
3/4-Methylphenol	108-39-4/106-44-5	< 4.06E-06	< 6.12E-06	< 6.44E-06	< 5.54E-06
N-Nitroso-di-n-propylamine	621-64-7	< 7.02E-06	< 1.06E-05	< 1.11E-05	< 9.58E-06
Hexachloroethane	67-72-1	< 7.05E-06	< 1.06E-05	< 1.12E-05	< 9.62E-06
Nitrobenzene	98-95-3	< 3.74E-06	< 5.21E-06	< 5.88E-06	< 4.94E-06
Isophorone	78-59-1	< 1.96E-06	< 2.73E-06	< 3.09E-06	< 2.59E-06
2-Nitrophenol	88-75-5	< 6.28E-06	< 8.75E-06	< 9.89E-06	< 8.31E-06
2,4-Dimethylphenol	105-67-9	< 4.21E-06	< 5.86E-06	< 6.63E-06	< 5.57E-06
bis(2-Chloroethoxy)methane	111-91-1	< 3.25E-06	< 4.53E-06	< 5.12E-06	< 4.30E-06
Benzoic acid	65-85-0	6.43E-05	4.56E-05	8.26E-05	6.42E-05
2,4-Dichlorophenol	120-83-2	< 4.43E-06	< 6.17E-06	< 6.97E-06	< 5.86E-06
1,2,4-Trichlorobenzene	120-82-1	< 3.98E-06	< 5.53E-06	< 6.26E-06	< 5.26E-06
Naphthalene	91-20-3	4.80E-06	1.99E-06	4.64E-06	3.81E-06
4-Chloroaniline	106-47-8	3.38E-06	1.81E-06	< 4.70E-06	< 3.29E-06
Hexachlorobutadiene	87-68-3	< 7.46E-06	< 1.04E-05	< 1.17E-05	< 9.86E-06
4-Chloro-3-methylphenol	59-50-7	< 4.27E-06	< 5.95E-06	< 6.73E-06	< 5.65E-06
2-Methylnaphthalene	91-57-6	1.60E-06	9.87E-07	1.71E-06	1.43E-06
Hexachlorocyclopentadiene	77-47-4	< 6.73E-06	< 1.04E-05	< 1.18E-05	< 9.64E-06
2,4,6-Trichlorophenol	88-06-2	< 5.78E-06	< 8.91E-06	< 1.02E-05	< 8.29E-06
2,4,5-Trichlorophenol	95-95-4	< 5.17E-06	< 7.95E-06	< 9.08E-06	< 7.40E-06
2-Chloronaphthalene	91-58-7	< 2.00E-06	< 3.08E-06	< 3.52E-06	< 2.87E-06
2-Nitroaniline	88-74-4	< 5.99E-06	< 9.23E-06	< 1.05E-05	< 8.59E-06
Dimethylphthalate	131-11-3	< 1.75E-06	< 2.70E-06	< 3.08E-06	< 2.51E-06
2,6-Dinitrotoluene	606-20-2	< 6.82E-06	< 1.05E-05	< 1.20E-05	< 9.77E-06
2,4-Dinitrotoluene	121-14-2	< 4.56E-06	< 7.02E-06	< 8.01E-06	< 6.53E-06
Acenaphthylene	208-96-8	< 1.18E-06	< 1.83E-06	< 2.09E-06	< 1.70E-06
3-Nitroaniline	99-09-2	< 5.23E-06	< 8.06E-06	< 9.20E-06	< 7.50E-06
Acenaphthene	83-32-9	< 1.99E-06	< 3.07E-06	< 3.50E-06	< 2.85E-06
2,4-Dinitrophenol	105-67-9	< 1.50E-05	< 2.31E-05	< 2.63E-05	< 2.15E-05
4-Nitrophenol	100-02-7	< 1.28E-05	< 1.97E-05	< 2.24E-05	< 1.83E-05
Dibenzofuran	132-64-9	< 1.40E-06	< 2.15E-06	< 2.45E-06	< 2.00E-06
Diethylphthalate	84-66-2	< 1.55E-06	9.42E-07	< 2.72E-06	< 1.74E-06
4-Chlorophenyl-phenylether	70005-72-3	< 3.72E-06	< 5.73E-06	< 6.53E-06	< 5.33E-06
Fluorene	86-73-7	< 1.92E-06	< 2.96E-06	< 3.38E-06	< 2.76E-06
4-Nitroaniline	100-01-6	< 5.04E-06	< 7.77E-06	< 8.87E-06	< 7.23E-06
4,6-Dinitro-2-methylphenol	534-52-1	< 7.64E-06	< 1.35E-05	< 1.46E-05	< 1.19E-05
4-Bromophenyl-phenylether	101-55-3	< 5.89E-06	< 1.04E-05	< 1.13E-05	< 9.19E-06
Hexachlorobenzene	118-74-1	< 4.30E-06	< 7.62E-06	< 8.23E-06	< 6.72E-06
Pentachlorophenol	87-86-5	< 6.33E-06	< 1.12E-05	< 1.21E-05	< 9.88E-06
Phenanthrene	85-01-8	1.63E-06	2.13E-06	1.42E-06	1.73E-06
Anthracene	120-12-7	< 1.06E-06	< 1.87E-06	< 2.02E-06	< 1.65E-06
Di-n-butylphthalate	84-74-2	0.00E+00	4.82E-06	2.64E-07	1.69E-06
Fluoranthene	206-44-0	5.90E-07	7.03E-07	9.16E-07	7.36E-07
Pyrene	129-00-0	2.68E-06	1.97E-06	2.18E-06	2.28E-06
Butylbenzylphthalate	85-68-7	< 1.06E-06	1.45E-06	< 1.50E-06	< 1.34E-06
3,3'-Dichlorobenzidine	91-94-1	< 2.40E-06	< 3.44E-06	< 3.39E-06	< 3.08E-06
bis(2-Ethylhexyl)phthalate	117-81-7	2.24E-05	3.28E-05	0.00E+00	1.84E-05

TRC

TABLE F.3-2
SIDEWALL/WHITEWALL GRINDING SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Semivolatiles (lb/lb rubber removed)					
Benzo(a)anthracene	56-55-3	< 7.59E-07	< 1.08E-06	< 1.07E-06	< 9.70E-07
Chrysene	218-01-9	9.74E-07	1.08E-06	9.95E-07	1.02E-06
Di-n-octylphthalate	117-84-0	< 7.21E-07	7.35E-07	0.00E+00	< 4.86E-07
Benzo(b)fluoranthene	205-99-2	< 1.06E-06	< 1.28E-06	< 1.26E-06	< 1.20E-06
Benzo(k)fluoranthene	207-08-9	< 1.17E-06	< 1.41E-06	< 1.38E-06	< 1.32E-06
Benzo(a)pyrene	50-32-8	< 1.17E-06	< 1.40E-06	< 1.38E-06	< 1.31E-06
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.04E-07	< 1.09E-06	< 1.07E-06	< 1.02E-06
Dibenz(a,h)anthracene	53-90-3	< 1.17E-06	< 1.41E-06	< 1.39E-06	< 1.32E-06
Benzo(g,h,i)perylene	191-24-2	< 9.83E-07	< 1.18E-06	< 1.17E-06	< 1.11E-06
n-Nitrosodimethylamine	62-75-9	< 6.91E-06	< 1.04E-05	< 1.10E-05	< 9.43E-06
Cumene	98-82-8	8.24E-07	< 2.51E-06	< 2.65E-06	< 1.99E-06
Aniline	62-53-3	4.57E-04	4.82E-04	2.75E-04	4.05E-04
Benzyl Chloride	100-44-7	< 2.40E-06	< 3.62E-06	< 3.81E-06	< 3.28E-06
Acetophenone	98-86-2	4.24E-06	2.65E-06	3.23E-06	3.37E-06
n-Nitrosomorpholine	59-89-2	< 6.08E-06	< 9.17E-06	< 9.66E-06	< 8.30E-06
o-Toluidine	95-53-4	< 2.88E-06	< 4.34E-06	< 4.58E-06	< 3.93E-06
N,N-Dimethylaniline	121-69-7	< 2.53E-06	< 3.52E-06	< 3.99E-06	< 3.35E-06
1,2-Dibromo-3-chloropropane	96-12-8	< 8.40E-06	< 1.27E-05	< 1.33E-05	< 1.15E-05
o-Anisidine	90-04-0	< 4.76E-06	< 6.63E-06	< 7.50E-06	< 6.30E-06
1,4-Phenylenediamine	106-50-3	< 5.09E-06	< 7.08E-06	< 8.00E-06	< 6.72E-06
N,N-Diethylaniline	91-66-7	< 2.35E-06	< 3.54E-06	< 3.73E-06	< 3.21E-06
a,a,a-Trichlorotoluene	98-07-7	< 3.61E-06	< 5.02E-06	< 5.67E-06	< 4.77E-06
Hydroquinone	123-31-9	< 3.86E-06	< 5.37E-06	< 6.07E-06	< 5.10E-06
2-Chloroacetophenone	1341-24-8	< 1.82E-06	< 2.53E-06	< 2.86E-06	< 2.40E-06
Biphenyl	92-52-4	< 1.79E-06	< 2.75E-06	< 3.15E-06	< 2.56E-06
Trifluralin	1582-09-8	< 8.71E-06	< 1.34E-05	< 1.53E-05	< 1.25E-05
4-Aminobiphenyl	92-67-1	< 1.38E-06	< 2.44E-06	< 2.64E-06	< 2.16E-06
Pentachloronitrobenzene	82-68-8	< 1.29E-05	< 2.29E-05	< 2.48E-05	< 2.02E-05
4-Nitrobiphenyl	92-93-3	< 2.68E-06	< 4.74E-06	< 5.13E-06	< 4.18E-06
Benzidine	92-87-5	< 1.39E-06	< 1.99E-06	< 1.96E-06	< 1.78E-06
4,4'-Methylenedianiline	101-77-9	< 2.72E-06	< 3.90E-06	< 3.84E-06	< 3.49E-06
Dimethylaminoazobenzene	60-11-7	< 1.62E-06	< 2.32E-06	< 2.29E-06	< 2.07E-06
3,3'-Dimethylbenzidine	119-93-7	< 1.32E-06	< 1.89E-06	< 1.86E-06	< 1.69E-06
3,3'-Dimethoxybenzidine	119-90-4	< 3.84E-06	< 5.52E-06	< 5.43E-06	< 4.93E-06
Methylene bis-chloroaniline	101-14-4	< 4.72E-06	< 6.76E-06	< 6.67E-06	< 6.05E-06
3-Furaldehyde	498-60-2	< 6.61E-06	< 9.96E-06	< 1.05E-05	< 9.02E-06
2-Furaldehyde	98-01-1	< 5.62E-06	< 8.48E-06	< 8.93E-06	< 7.68E-06
Cyclohexylamine	108-91-8	< 4.32E-06	< 6.52E-06	< 6.86E-06	< 5.90E-06
N-Nitrosodiethylamine	55-18-5	< 7.13E-06	< 1.08E-05	< 1.13E-05	< 9.74E-06
Cyclohexanone	108-94-1	< 3.47E-06	< 5.24E-06	< 5.51E-06	< 4.74E-06
1,3-Cyclooctadiene	1700-10-3	< 4.38E-06	< 6.61E-06	< 6.96E-06	< 5.98E-06
1,5-Cyclooctadiene	111-78-4	< 9.56E-06	< 1.44E-05	< 1.52E-05	< 1.31E-05
Camphene	79-92-5	< 4.84E-06	< 7.30E-06	< 7.69E-06	< 6.61E-06
Benzaldehyde	100-52-7	1.90E-06	5.57E-06	1.25E-06	2.91E-06
Benzonitrile	100-47-0	< 1.68E-06	< 2.53E-06	< 2.66E-06	< 2.29E-06
Isooctanol	26952-21-6	< 3.96E-05	< 5.97E-05	< 6.29E-05	< 5.40E-05
1,2,4-Trimethylbenzene	95-63-6	1.19E-06	< 3.04E-06	1.86E-06	< 2.03E-06
3-Methylstyrene	100-80-1	< 2.84E-06	< 4.28E-06	< 4.51E-06	< 3.88E-06
4-Methylstyrene	622-97-9	< 2.94E-06	< 4.43E-06	< 4.67E-06	< 4.01E-06
4-Chlorostyrene	1073-67-2	< 3.49E-06	< 5.26E-06	< 5.53E-06	< 4.76E-06
1-Dodecene	112-41-4	< 1.50E-05	< 2.09E-05	< 2.36E-05	< 1.98E-05
Phthalimide	85-41-6	4.91E-06	3.96E-06	2.38E-06	3.75E-06
Diphenylamine	122-39-4	8.85E-07	< 3.28E-06	< 3.74E-06	< 2.63E-06
Total Detected		5.79E-04	5.94E-04	4.19E-04	5.31E-04
Total with non-detects		< 9.97E-04	< 1.24E-03	< 1.13E-03	< 1.12E-03

TRC

TABLE F.3.3
SIDEWALL/WHITEWALL GRINDING VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Volatiles (µg/m³)							
		1-Heptene	592-76-7	326.75	420.10	58.35	268.40
		1-Hexene	592-41-6	< 1.17	< 1.17	< 1.17	< 1.17
		1-Octene	111-60-0	< 1.17	< 1.17	32.09	< 11.48
		1-Pentene	109-67-1	< 1.17	< 1.17	< 1.17	< 1.17
1		1,1-Dichloroethane	00075-34-3	< 20.00	< 20.00	< 20.00	< 20.00
1		1,1-Dichloroethene	00075-35-4	< 20.00	< 20.00	< 20.00	< 20.00
1		1,1,1-Trichloroethane	00071-55-6	< 20.00	< 20.00	< 20.00	< 20.00
1		1,1,2-Trichloroethane	00079-00-5	< 20.00	< 20.00	< 20.00	< 20.00
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 20.00	< 20.00	< 20.00	< 20.00
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 40.00	< 40.00	< 40.00	< 40.00
1		1,2-Dibromoethane	00106-93-4	< 20.00	< 20.00	< 20.00	< 20.00
1		1,2-Dichlorobenzene	00095-50-1	< 20.00	< 20.00	< 20.00	< 20.00
1		1,2-Dichloroethane	00107-06-2	< 20.00	< 20.00	< 20.00	< 20.00
1		1,2-Dichloropropane	00078-87-5	< 20.00	< 20.00	< 20.00	< 20.00
		1,2,4-Trimethylbenzene	95-63-6	< 5.56	< 5.56	< 5.56	< 5.56
		1,3-Butadiene	106-99-0	< 1.13	< 1.13	39.38	< 13.88
1		1,3-Dichlorobenzene	00541-73-1	< 20.00	< 20.00	< 20.00	< 20.00
1	2	1,3-Pentadiene				100.00	33.33
		1,3,5-Trimethylbenzene	108-67-8	< 5.56	< 5.56	< 5.56	< 5.56
1		1,4-Dichlorobenzene	00106-46-7	< 20.00	< 20.00	< 20.00	< 20.00
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 5.58	< 5.58	< 5.58	< 5.58
1		1,4-Dioxane	00123-91-1	< 80.00	< 80.00	< 80.00	< 80.00
1		2-Butanone	00078-93-3	< 40.00	< 40.00	22.00	< 34.00
1	2	2-Butene		50.00	40.00	200.00	96.67
1	2	2-Ethylpentane					0.00
1		2-Hexanone	00591-78-6	< 20.00	< 20.00	< 20.00	< 20.00
		2-Methyl-1-butene	563-46-2	< 1.17	< 1.17	< 1.17	< 1.17
		2-Methyl-2-butene	513-35-9	19.84	12.25	22.76	18.28
		2-Methyl-2-pentene	625-27-4	< 1.17	< 1.17	< 1.17	< 1.17
		2-Methylheptane	592-27-8	166.31	112.85	237.58	172.25
1	2	2-Methylheptane					0.00
		2-Methylhexane	591-76-4	774.09	1012.28	119.09	635.15
		2-Methylpentane	107-83-5	101.57	35.85	< 1.08	< 46.16
		2,2-Dimethylbutane	75-83-2	10.16	< 1.19	0.30	< 3.88
		2,2-Dimethylpropane	463-82-1	< 1.20	< 1.20	< 1.20	< 1.20
		2,3-Dimethylpentane	565-59-3	285.82	357.27	59.55	234.21
		2,3,4-Trimethylpentane	565-75-3	12.47	11.88	< 1.19	< 8.51
		2,4-Dimethylhexane	589-43-5	172.25	201.95	71.28	148.49
1	2	3-Ethylpentane		200.00	200.00		133.33
1	2	3-Methylheptane		60.00		100.00	53.33
		3-Methylhexane	589-34-4	1607.73	2143.64	297.73	1349.70
		3-Methylpentane	96-14-0	101.57	48.99	14.94	55.16
		4-Methyl-1-pentene	691-37-2	11.67	< 1.17	< 1.17	< 4.67
1		4-Methyl-2-pentanone	00108-10-1	< 20.00	< 20.00	< 20.00	< 20.00
1		Acetone	00067-64-1	51.00	32.00	2.00	28.33
1		Acetonitrile	01722-09-4	< 40.00	< 40.00	< 40.00	< 40.00
		Acetylene	74-86-2	< 1.08	< 1.08	15.16	< 5.78
1		Acrolein	00107-02-8	< 40.00	< 40.00	< 40.00	< 40.00
1		Acrylonitrile	00107-13-1	< 40.00	< 40.00	< 40.00	< 40.00
1		Allyl Chloride	00107-05-1	< 40.00	< 40.00	< 40.00	< 40.00
		a-Pinene	7785-70-8	< 1.13	< 1.13	< 1.13	< 1.13
		Benzene	71-43-2	3.74	1.08	18.95	7.92
1		Benzyl Chloride	00100-44-7	< 40.00	< 40.00	< 40.00	< 40.00
		b-Pinene	18172-67-3	40.80	< 5.67	< 5.67	< 17.38
1		Bromodichloromethane	00075-27-4	< 20.00	< 20.00	< 20.00	< 20.00
1		Bromoform	00075-25-2	< 20.00	< 20.00	< 20.00	< 20.00
1		Bromomethane	00074-83-9	< 20.00	< 20.00	< 20.00	< 20.00
1	2	C8H16 Alkene		60.00	50.00		36.67
1	2	C9H20 Alkane		100.00	80.00	600.00	260.00
1		Carbon Disulfide	00075-15-0	< 20.00	< 20.00	18.00	< 19.33
1		Carbon Tetrachloride	00056-23-5	< 20.00	< 20.00	< 20.00	< 20.00
1		Chlorobenzene	00108-90-7	< 20.00	< 20.00	< 20.00	< 20.00
1		Chloroethane	00075-00-3	< 20.00	< 20.00	< 20.00	< 20.00
1		Chloroform	00067-66-3	< 20.00	< 20.00	< 20.00	< 20.00

1 - TO14 Compounds 2 - Tentatively Identified Compounds

TRC

TABLE F.3.3
SIDEWALL/WHITEWALL GRINDING VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Volatiles (µg/m³)							
1		Chloromethane	00074-87-3	< 20.00	< 20.00	< 20.00	< 20.00
1		cis-1,2-Dichloroethene	00156-59-2	< 20.00	< 20.00	< 20.00	< 20.00
1		cis-1,3-Dichloropropene	10061-01-5	< 20.00	< 20.00	< 20.00	< 20.00
		cis-2-Butene	590-18-1	< 1.17	< 1.17	< 1.17	< 1.17
		cis-2-Hexene	7688-21-3	< 1.17	< 1.17	< 1.17	< 1.17
		cis-2-Pentene	627-20-3	< 1.17	< 1.17	< 1.17	< 1.17
		Cumene	98-82-8	< 1.11	< 1.11	< 1.11	< 1.11
		Cyclohexane	110-82-7	9.34	6.42	15.17	10.31
		Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	29.91	14.30	4.23	16.15
		Cyclopentene	142-29-0	< 1.13	< 1.13	18.42	< 6.89
1		Dibromochloromethane	00124-48-1	< 20.00	< 20.00	< 20.00	< 20.00
1		Dichlorodifluoromethane	00075-71-8	< 20.00	< 20.00	< 20.00	< 20.00
1	2	Dimethyl Cyclohexane Isomer		100.00	70.00	200.00	123.33
1	2	Dimethyl Cyclopentane Isomer		50.00	70.00		40.00
		d-Limonene	5989-27-5	< 5.67	< 5.67	55.82	< 22.38
1		Epichlorohydrin	00106-89-8	< 40.00	< 40.00	< 40.00	< 40.00
		Ethane	74-84-0	< 1.25	< 1.25	< 1.25	< 1.25
1	2	Ethyl Cyclopentane		60.00	80.00		46.67
		Ethylacetylene	107-00-6	< 1.13	< 1.13	< 1.13	< 1.13
		Ethylbenzene	100-41-4	25.95	16.56	66.24	36.25
		Ethylene	74-85-1	< 1.17	< 1.17	29.76	< 10.70
1		Hexachlorobutadiene	00087-68-3	< 40.00	< 40.00	< 40.00	< 40.00
		Isobutane	75-28-5	< 1.21	< 1.21	31.73	< 11.38
		Isobutylene + 1-Butene	115-11-7/106-98-9	70.02	39.68	212.97	107.55
		Isooctane	540-84-1	106.91	142.55	17.82	89.09
		Isopentane	78-78-4	90.04	58.82	42.02	63.63
		Isoprene	78-79-5	28.34	< 1.13	215.35	< 81.61
1		Methyl tert-Butyl Ether	01634-04-4	< 40.00	< 40.00	< 40.00	< 40.00
		Methylacetylene	74-99-7	< 1.08	< 1.08	< 1.08	< 1.08
		Methylcyclohexane	108-87-2	390.93	338.42	175.04	301.46
		Methylcyclopentane	96-37-7	81.69	46.09	23.34	50.37
1		Methylene Chloride	00075-09-2	38.00	15.00	< 20.00	< 24.33
		m-Ethyltoluene	620-14-4	< 1.11	< 1.11	< 1.11	< 1.11
		m-Xylene + p-Xylene	108-38-3/106-42-3	43.61	32.57	< 1.10	< 25.76
		n-Butane	106-97-8	39.29	41.10	105.78	62.06
		n-Decane	124-18-5	< 5.92	< 5.92	< 5.92	< 5.92
		n-Heptane	142-82-5	2024.55	2560.46	357.27	1647.43
		n-Hexane	110-54-3	179.24	95.59	17.92	97.58
		n-Nonane	111-84-2	71.14	49.20	< 1.19	< 40.51
		n-Octane	111-65-9	166.31	112.85	86.12	121.76
		n-Pentane	109-66-0	5.46	< 1.20	6.30	< 4.32
		n-Propylbenzene	103-65-1	< 1.11	< 1.11	< 1.11	< 1.11
		o-Ethyltoluene	611-14-3	< 5.56	< 5.56	< 5.56	< 5.56
		o-Xylene	95-47-6	< 1.10	< 1.10	30.36	< 10.86
		p-Cymene	99-87-6	< 5.58	< 5.58	< 5.58	< 5.58
		p-Ethyltoluene	622-96-8	< 1.11	< 1.11	< 1.11	< 1.11
		Propane	74-98-6	79.49	103.94	< 1.28	< 61.57
		Propylene	115-07-1	< 1.17	< 1.17	< 1.17	< 1.17
1		Propylene Oxide	00075-56-9	< 40.00	< 40.00	< 40.00	< 40.00
		Styrene	100-42-5	< 1.08	< 1.08	27.62	< 9.93
1		Tetrachloroethene	00127-18-4	< 20.00	< 20.00	< 20.00	< 20.00
		Toluene	108-88-3	65.70	52.56	229.97	116.08
1		trans-1,2-Dichloroethene	00156-60-5	< 20.00	< 20.00	< 20.00	< 20.00
1		trans-1,3-Dichloropropene	10061-02-6	< 20.00	< 20.00	< 20.00	< 20.00
		trans-2-Butene	624-64-6	< 1.17	< 1.17	< 1.17	< 1.17
		trans-2-Hexene	4050-45-7	< 1.17	< 1.17	< 1.17	< 1.17
		trans-2-Pentene	646-04-8	< 1.17	< 1.17	< 1.17	< 1.17
1		Trichloroethene	00079-01-6	< 20.00	< 20.00	< 20.00	< 20.00
1		Trichlorofluoromethane	00075-69-4	< 20.00	< 20.00	< 20.00	< 20.00
1		Trichlortrifluoroethane	00076-13-1	< 20.00	< 20.00	650.00	< 230.00
1	2	Trimethyl Cyclohexane Isomer				100.00	33.33
1	2	Trimethyl Cyclopentane Isomer				20.00	6.67
1	2	Unknown		270.00	80.00		116.67
1		Vinyl Acetate	00108-05-4	< 20.00	< 20.00	< 20.00	< 20.00
1		Vinyl Chloride	00075-01-4	< 20.00	< 20.00	< 20.00	< 20.00
		Total Detected		8181.65	8786.28	4768.40	7245.45
		Total with non-detects		< 9453.22	< 10068.21	< 5977.90	< 8499.77

1 - TO14 Compounds 2 - Tentatively Identified Compounds

TRC

TABLE F.3.3
SIDEWALL/WHITEWALL GRINDING VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Volatiles (lb/hr)							
		1-Heptene	592-76-7	5.70E-03	7.55E-03	1.04E-03	4.76E-03
		1-Hexene	592-41-6	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
		1-Octene	111-60-0	< 2.03E-05	< 2.10E-05	5.74E-04	< 2.05E-04
		1-Pentene	109-67-1	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
1		1,1-Dichloroethane	00075-34-3	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		1,1-Dichloroethene	00075-35-4	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		1,1,1-Trichloroethane	00071-55-6	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		1,1,2-Trichloroethane	00079-00-5	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
1		1,2-Dibromoethane	00106-93-4	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		1,2-Dichlorobenzene	00095-50-1	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		1,2-Dichloroethane	00107-06-2	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		1,2-Dichloropropane	00078-87-5	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
		1,2,4-Trimethylbenzene	95-63-6	< 9.69E-05	< 9.98E-05	< 9.94E-05	< 9.87E-05
		1,3-Butadiene	106-99-0	< 1.96E-05	< 2.02E-05	7.05E-04	< 2.48E-04
1		1,3-Dichlorobenzene	00541-73-1	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1	2	1,3-Pentadiene		0.00E+00	0.00E+00	1.79E-03	5.97E-04
		1,3,5-Trimethylbenzene	108-67-8	< 9.69E-05	< 9.98E-05	< 9.94E-05	< 9.87E-05
1		1,4-Dichlorobenzene	00106-46-7	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 9.73E-05	< 1.00E-04	< 9.99E-05	< 9.92E-05
1		1,4-Dioxane	00123-91-1	< 1.39E-03	< 1.44E-03	< 1.43E-03	< 1.42E-03
1		2-Butanone	00078-93-3	< 6.97E-04	< 7.18E-04	3.94E-04	< 6.03E-04
1	2	2-Butene		8.72E-04	7.18E-04	3.58E-03	1.72E-03
1	2	2-Ethylpentane		0.00E+00	0.00E+00	0.00E+00	0.00E+00
1		2-Hexanone	00591-78-6	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
		2-Methyl-1-butene	563-46-2	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
		2-Methyl-2-butene	513-35-9	3.46E-04	2.20E-04	4.07E-04	3.24E-04
		2-Methyl-2-pentene	625-27-4	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
		2-Methylheptane	592-27-8	2.90E-03	2.03E-03	4.25E-03	3.06E-03
1	2	2-Methylheptane		0.00E+00	0.00E+00	0.00E+00	0.00E+00
		2-Methylhexane	591-76-4	1.35E-02	1.82E-02	2.13E-03	1.13E-02
		2-Methylpentane	107-83-5	1.77E-03	6.44E-04	< 1.92E-05	< 8.11E-04
		2,2-Dimethylbutane	75-83-2	1.77E-04	< 2.15E-05	5.35E-06	< 6.80E-05
		2,2-Dimethylpropane	463-82-1	< 2.09E-05	< 2.16E-05	< 2.15E-05	< 2.13E-05
		2,3-Dimethylpentane	565-59-3	4.98E-03	6.42E-03	1.07E-03	4.16E-03
		2,3,4-Trimethylpentane	565-75-3	2.17E-04	2.13E-04	< 2.13E-05	< 1.51E-04
		2,4-Dimethylhexane	589-43-5	3.00E-03	3.63E-03	1.28E-03	2.64E-03
1	2	3-Ethylpentane		3.49E-03	3.59E-03	0.00E+00	2.36E-03
1	2	3-Methylheptane		1.05E-03	0.00E+00	1.79E-03	9.45E-04
		3-Methylhexane	589-34-4	2.80E-02	3.85E-02	5.33E-03	2.40E-02
		3-Methylpentane	96-14-0	1.77E-03	8.80E-04	2.67E-04	9.73E-04
		4-Methyl-1-pentene	691-37-2	2.03E-04	< 2.10E-05	< 2.09E-05	< 8.18E-05
1		4-Methyl-2-pentanone	00108-10-1	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Acetone	00067-64-1	8.89E-04	5.75E-04	3.58E-05	5.00E-04
1		Acetonitrile	01722-09-4	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
		Acetylene	74-86-2	< 1.89E-05	< 1.95E-05	2.71E-04	< 1.03E-04
1		Acrolein	00107-02-8	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
1		Acrylonitrile	00107-13-1	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
1		Allyl Chloride	00107-05-1	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
		a-Pinene	7785-70-8	< 1.98E-05	< 2.04E-05	< 2.03E-05	< 2.01E-05
		Benzene	71-43-2	6.51E-05	1.95E-05	3.39E-04	1.41E-04
1		Benzyl Chloride	00100-44-7	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
		b-Pinene	18172-67-3	7.11E-04	< 1.02E-04	< 1.01E-04	< 3.05E-04
1		Bromodichloromethane	00075-27-4	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Bromoform	00075-25-2	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Bromomethane	00074-83-9	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1	2	C8H16 Alkene		1.05E-03	8.98E-04	0.00E+00	6.48E-04
1	2	C9H20 Alkane		1.74E-03	1.44E-03	1.07E-02	4.64E-03
1		Carbon Disulfide	00075-15-0	< 3.49E-04	< 3.59E-04	3.22E-04	< 3.43E-04
1		Carbon Tetrachloride	00056-23-5	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Chlorobenzene	00108-90-7	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Chloroethane	00075-00-3	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Chloroform	00067-66-3	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04

1 - TO14 Compounds 2 - Tentatively Identified Compounds

TRC

TABLE F.3.3
SIDEWALL/WHITEWALL GRINDING VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Volatiles (lb/hr)							
1		Chloromethane	00074-87-3	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		cis-1,2-Dichloroethene	00156-59-2	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		cis-1,3-Dichloropropene	10061-01-5	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
		cis-2-Butene	590-18-1	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
		cis-2-Hexene	7688-21-3	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
		cis-2-Pentene	627-20-3	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
		Cumene	98-82-8	< 1.94E-05	< 2.00E-05	< 1.99E-05	< 1.97E-05
		Cyclohexane	110-82-7	1.63E-04	1.15E-04	2.72E-04	1.83E-04
		Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	5.21E-04	2.57E-04	7.56E-05	2.85E-04
		Cyclopentene	142-29-0	< 1.98E-05	< 2.04E-05	3.30E-04	< 1.23E-04
1		Dibromochloromethane	00124-48-1	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Dichlorodifluoromethane	00075-71-8	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1	2	Dimethyl Cyclohexane Isomer		1.74E-03	1.26E-03	3.58E-03	2.19E-03
1	2	Dimethyl Cyclopentane Isomer		8.72E-04	1.26E-03	0.00E+00	7.10E-04
		d-Limonene	5989-27-5	< 9.88E-05	< 1.02E-04	9.99E-04	< 4.00E-04
1		Epichlorohydrin	00106-89-8	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
		Ethane	74-84-0	< 2.18E-05	< 2.25E-05	< 2.24E-05	< 2.22E-05
1	2	Ethyl Cyclopentane		1.05E-03	1.44E-03	0.00E+00	8.28E-04
		Ethylacetylene	107-00-6	< 1.96E-05	< 2.02E-05	< 2.01E-05	< 2.00E-05
		Ethylbenzene	100-41-4	4.52E-04	2.97E-04	1.19E-03	6.45E-04
		Ethylene	74-85-1	< 2.03E-05	< 2.10E-05	5.33E-04	< 1.91E-04
1		Hexachlorobutadiene	00087-68-3	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
		Isobutane	75-28-5	< 2.11E-05	< 2.17E-05	5.68E-04	< 2.04E-04
		Isobutylene + 1-Butene	115-11-7/106-98-9	1.22E-03	7.13E-04	3.81E-03	1.92E-03
		Isooctane	540-84-1	1.86E-03	2.56E-03	3.19E-04	1.58E-03
		Isopentane	78-78-4	1.57E-03	1.06E-03	7.52E-04	1.13E-03
		Isoprene	78-79-5	4.94E-04	< 2.04E-05	3.85E-03	< 1.46E-03
1		Methyl tert-Butyl Ether	01634-04-4	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
		Methylacetylene	74-99-7	< 1.89E-05	< 1.95E-05	< 1.94E-05	< 1.92E-05
		Methylcyclohexane	108-87-2	6.82E-03	6.08E-03	3.13E-03	5.34E-03
		Methylcyclopentane	96-37-7	1.42E-03	8.28E-04	4.18E-04	8.90E-04
1		Methylene Chloride	00075-09-2	6.62E-04	2.69E-04	< 3.58E-04	< 4.30E-04
		m-Ethyltoluene	620-14-4	< 1.94E-05	< 2.00E-05	< 1.99E-05	< 1.97E-05
		m-Xylene + p-Xylene	108-38-3/106-42-3	7.60E-04	5.85E-04	< 1.98E-05	< 4.55E-04
		n-Butane	106-97-8	6.85E-04	7.38E-04	1.89E-03	1.11E-03
		n-Decane	124-18-5	< 1.03E-04	< 1.06E-04	< 1.06E-04	< 1.05E-04
		n-Heptane	142-82-5	3.53E-02	4.60E-02	6.39E-03	2.92E-02
		n-Hexane	110-54-3	3.12E-03	1.72E-03	3.21E-04	1.72E-03
		n-Nonane	111-84-2	1.24E-03	8.84E-04	< 2.12E-05	< 7.15E-04
		n-Octane	111-65-9	2.90E-03	2.03E-03	1.54E-03	2.16E-03
		n-Pentane	109-66-0	9.52E-05	< 2.16E-05	1.13E-04	< 7.65E-05
		n-Propylbenzene	103-65-1	< 1.94E-05	< 2.00E-05	< 1.99E-05	< 1.97E-05
		o-Ethyltoluene	611-14-3	< 9.69E-05	< 9.98E-05	< 9.94E-05	< 9.87E-05
		o-Xylene	95-47-6	< 1.92E-05	< 1.98E-05	5.43E-04	< 1.94E-04
		p-Cymene	99-87-6	< 9.73E-05	< 1.00E-04	< 9.99E-05	< 9.92E-05
		p-Ethyltoluene	622-96-8	< 1.94E-05	< 2.00E-05	< 1.99E-05	< 1.97E-05
		Propane	74-98-6	1.39E-03	1.87E-03	< 2.30E-05	< 1.09E-03
		Propylene	115-07-1	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
1		Propylene Oxide	00075-56-9	< 6.97E-04	< 7.18E-04	< 7.16E-04	< 7.11E-04
		Styrene	100-42-5	< 1.89E-05	< 1.95E-05	4.94E-04	< 1.78E-04
1		Tetrachloroethene	00127-18-4	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
		Toluene	108-88-3	1.15E-03	9.44E-04	4.12E-03	2.07E-03
1		trans-1,2-Dichloroethene	00156-60-5	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		trans-1,3-Dichloropropene	10061-02-6	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
		trans-2-Butene	624-64-6	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
		trans-2-Hexene	4050-45-7	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
		trans-2-Pentene	646-04-8	< 2.03E-05	< 2.10E-05	< 2.09E-05	< 2.07E-05
1		Trichloroethene	00079-01-6	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Trichlorofluoromethane	00075-69-4	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Trichlortrifluoroethane	00076-13-1	< 3.49E-04	< 3.59E-04	1.16E-02	< 4.11E-03
1	2	Trimethyl Cyclohexane Isomer		0.00E+00	0.00E+00	1.79E-03	5.97E-04
1	2	Trimethyl Cyclopentane Isomer		0.00E+00	0.00E+00	3.58E-04	1.19E-04
1	2	Unknown		4.71E-03	1.44E-03	0.00E+00	2.05E-03
1		Vinyl Acetate	00108-05-4	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
1		Vinyl Chloride	00075-01-4	< 3.49E-04	< 3.59E-04	< 3.58E-04	< 3.55E-04
		Total Detected		1.43E-01	1.58E-01	8.53E-02	1.29E-01
		Total with non-detects		< 1.65E-01	< 1.81E-01	< 1.07E-01	< 1.51E-01

1 - TO14 Compounds 2 - Tentatively Identified Compounds

TRC

TABLE F.3.3
SIDEWALL/WHITEWALL GRINDING VOLATILES SUMMARY

		Compounds	CAS Numbers		Run 1 Inlet		Run 2 Inlet		Run 3 Inlet		Average Inlet w/ non-detects
Speciated Volatiles (lb/lb rubber removed)											
		1-Heptene	592-76-7		3.93E-04		5.41E-04		1.04E-04		3.46E-04
		1-Hexene	592-41-6	<	1.40E-06	<	1.50E-06	<	2.09E-06	<	1.67E-06
		1-Octene	111-60-0	<	1.40E-06	<	1.50E-06		5.74E-05	<	2.01E-05
		1-Pentene	109-67-1	<	1.40E-06	<	1.50E-06	<	2.09E-06	<	1.67E-06
1		1,1-Dichloroethane	00075-34-3	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		1,1-Dichloroethene	00075-35-4	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		1,1,1-Trichloroethane	00071-55-6	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		1,1,2-Trichloroethane	00079-00-5	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		1,1,2,2-Tetrachloroethane	00079-34-5	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		1,2-Dibromo-3-Chloropropane	00096-12-8	<	4.81E-05	<	5.15E-05	<	7.16E-05	<	5.71E-05
1		1,2-Dibromoethane	00106-93-4	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		1,2-Dichlorobenzene	00095-50-1	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		1,2-Dichloroethane	00107-06-2	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		1,2-Dichloropropane	00078-87-5	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
		1,2,4-Trimethylbenzene	95-63-6	<	6.68E-06	<	7.16E-06	<	9.94E-06	<	7.93E-06
		1,3-Butadiene	106-99-0	<	1.35E-06	<	1.45E-06		7.05E-05	<	2.44E-05
1		1,3-Dichlorobenzene	00541-73-1	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1	2	1,3-Pentadiene			0.00E+00		0.00E+00		1.79E-04		5.97E-05
		1,3,5-Trimethylbenzene	108-67-8	<	6.68E-06	<	7.16E-06	<	9.94E-06	<	7.93E-06
1		1,4-Dichlorobenzene	00106-46-7	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	<	6.71E-06	<	7.19E-06	<	9.99E-06	<	7.97E-06
1		1,4-Dioxane	00123-91-1	<	9.62E-05	<	1.03E-04	<	1.43E-04	<	1.14E-04
1		2-Butanone	00078-93-3	<	4.81E-05	<	5.15E-05		3.94E-05	<	4.63E-05
1	2	2-Butene			6.01E-05		5.15E-05		3.58E-04		1.57E-04
1	2	2-Ethylpentane			0.00E+00		0.00E+00		0.00E+00		0.00E+00
1		2-Hexanone	00591-78-6	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
		2-Methyl-1-butene	563-46-2	<	1.40E-06	<	1.50E-06	<	2.09E-06	<	1.67E-06
		2-Methyl-2-butene	513-35-9		2.39E-05		1.58E-05		4.07E-05		2.68E-05
		2-Methyl-2-pentene	625-27-4	<	1.40E-06	<	1.50E-06	<	2.09E-06	<	1.67E-06
		2-Methylheptane	592-27-8		2.00E-04		1.45E-04		4.25E-04		2.57E-04
1	2	2-Methylheptane			0.00E+00		0.00E+00		0.00E+00		0.00E+00
		2-Methylhexane	591-76-4		9.31E-04		1.30E-03		2.13E-04		8.16E-04
		2-Methylpentane	107-83-5		1.22E-04		4.62E-05	<	1.92E-06	<	5.67E-05
		2,2-Dimethylbutane	75-83-2		1.22E-05	<	1.54E-06		5.35E-07	<	4.76E-06
		2,2-Dimethylpropane	463-82-1	<	1.44E-06	<	1.55E-06	<	2.15E-06	<	1.71E-06
		2,3-Dimethylpentane	565-59-3		3.44E-04		4.60E-04		1.07E-04		3.04E-04
		2,3,4-Trimethylpentane	565-75-3		1.50E-05		1.53E-05	<	2.13E-06	<	1.08E-05
		2,4-Dimethylhexane	589-43-5		2.07E-04		2.60E-04		1.28E-04		1.98E-04
1	2	3-Ethylpentane			2.40E-04		2.58E-04		0.00E+00		1.66E-04
1	2	3-Methylheptane			7.21E-05		0.00E+00		1.79E-04		8.37E-05
		3-Methylhexane	589-34-4		1.93E-03		2.76E-03		5.33E-04		1.74E-03
		3-Methylpentane	96-14-0		1.22E-04		6.31E-05		2.67E-05		7.07E-05
		4-Methyl-1-pentene	691-37-2		1.40E-05	<	1.50E-06	<	2.09E-06	<	5.87E-06
1		4-Methyl-2-pentanone	00108-10-1	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		Acetone	00067-64-1		6.13E-05		4.12E-05		3.58E-06		3.54E-05
1		Acetonitrile	01722-09-4	<	4.81E-05	<	5.15E-05	<	7.16E-05	<	5.71E-05
		Acetylene	74-86-2	<	1.30E-06	<	1.40E-06		2.71E-05	<	9.95E-06
1		Acrolein	00107-02-8	<	4.81E-05	<	5.15E-05	<	7.16E-05	<	5.71E-05
1		Acrylonitrile	00107-13-1	<	4.81E-05	<	5.15E-05	<	7.16E-05	<	5.71E-05
1		Allyl Chloride	00107-05-1	<	4.81E-05	<	5.15E-05	<	7.16E-05	<	5.71E-05
		a-Pinene	7785-70-8	<	1.36E-06	<	1.46E-06	<	2.03E-06	<	1.62E-06
		Benzene	71-43-2		4.49E-06		1.40E-06		3.39E-05		1.33E-05
1		Benzyl Chloride	00100-44-7	<	4.81E-05	<	5.15E-05	<	7.16E-05	<	5.71E-05
		b-Pinene	18172-67-3		4.91E-05	<	7.30E-06	<	1.01E-05	<	2.22E-05
1		Bromodichloromethane	00075-27-4	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		Bromoform	00075-25-2	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		Bromomethane	00074-83-9	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1	2	C8H16 Alkene			7.21E-05		6.44E-05		0.00E+00		4.55E-05
1	2	C9H20 Alkane			1.20E-04		1.03E-04		1.07E-03		4.32E-04
1		Carbon Disulfide	00075-15-0	<	2.40E-05	<	2.58E-05		3.22E-05	<	2.73E-05
1		Carbon Tetrachloride	00056-23-5	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		Chlorobenzene	00108-90-7	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		Chloroethane	00075-00-3	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05
1		Chloroform	00067-66-3	<	2.40E-05	<	2.58E-05	<	3.58E-05	<	2.85E-05

1 - TO14 Compounds 2 - Tentatively Identified Compounds

TRC

TABLE F.3.3
SIDEWALL/WHITEWALL GRINDING VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Speciated Volatiles (lb/lb rubber removed)							
1		Chloromethane	00074-87-3	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
1		cis-1,2-Dichloroethene	00156-59-2	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
1		cis-1,3-Dichloropropene	10061-01-5	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
		cis-2-Butene	590-18-1	< 1.40E-06	< 1.50E-06	< 2.09E-06	< 1.67E-06
		cis-2-Hexene	7688-21-3	< 1.40E-06	< 1.50E-06	< 2.09E-06	< 1.67E-06
		cis-2-Pentene	627-20-3	< 1.40E-06	< 1.50E-06	< 2.09E-06	< 1.67E-06
		Cumene	98-82-8	< 1.34E-06	< 1.43E-06	< 1.99E-06	< 1.59E-06
		Cyclohexane	110-82-7	1.12E-05	8.27E-06	2.72E-05	1.55E-05
		Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	3.60E-05	1.84E-05	7.56E-06	2.07E-05
		Cyclopentene	142-29-0	< 1.36E-06	< 1.46E-06	3.30E-05	< 1.19E-05
1		Dibromochloromethane	00124-48-1	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
1		Dichlorodifluoromethane	00075-71-8	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
1	2	Dimethyl Cyclohexane Isomer		1.20E-04	9.02E-05	3.58E-04	1.89E-04
1	2	Dimethyl Cyclopentane Isomer		6.01E-05	9.02E-05	0.00E+00	5.01E-05
		d-Limonene	5989-27-5	< 6.81E-06	< 7.30E-06	9.99E-05	< 3.80E-05
1		Epichlorohydrin	00106-89-8	< 4.81E-05	< 5.15E-05	< 7.16E-05	< 5.71E-05
		Ethane	74-84-0	< 1.50E-06	< 1.61E-06	< 2.24E-06	< 1.78E-06
1	2	Ethyl Cyclopentane		7.21E-05	1.03E-04	0.00E+00	5.84E-05
		Ethylacetylene	107-00-6	< 1.35E-06	< 1.45E-06	< 2.01E-06	< 1.61E-06
		Ethylbenzene	100-41-4	3.12E-05	2.13E-05	1.19E-04	5.70E-05
		Ethylene	74-85-1	< 1.40E-06	< 1.50E-06	5.33E-05	< 1.87E-05
1		Hexachlorobutadiene	00087-68-3	< 4.81E-05	< 5.15E-05	< 7.16E-05	< 5.71E-05
		Isobutane	75-28-5	< 1.45E-06	< 1.56E-06	5.68E-05	< 1.99E-05
		Isobutylene + 1-Butene	115-11-7/106-98-9	8.42E-05	5.11E-05	3.81E-04	1.72E-04
		Isooctane	540-84-1	1.29E-04	1.84E-04	3.19E-05	1.15E-04
		Isopentane	78-78-4	1.08E-04	7.58E-05	7.52E-05	8.64E-05
		Isoprene	78-79-5	3.41E-05	< 1.46E-06	3.85E-04	< 1.40E-04
1		Methyl tert-Butyl Ether	01634-04-4	< 4.81E-05	< 5.15E-05	< 7.16E-05	< 5.71E-05
		Methylacetylene	74-99-7	< 1.30E-06	< 1.40E-06	< 1.94E-06	< 1.55E-06
		Methylcyclohexane	108-87-2	4.70E-04	4.36E-04	3.13E-04	4.06E-04
		Methylcyclopentane	96-37-7	9.82E-05	5.94E-05	4.18E-05	6.65E-05
1		Methylene Chloride	00075-09-2	4.57E-05	1.93E-05	< 3.58E-05	< 3.36E-05
		m-Ethyltoluene	620-14-4	< 1.34E-06	< 1.43E-06	< 1.99E-06	< 1.59E-06
		m-Xylene + p-Xylene	108-38-3/106-42-3	5.24E-05	4.20E-05	< 1.98E-06	< 3.21E-05
		n-Butane	106-97-8	4.72E-05	5.30E-05	1.89E-04	9.65E-05
		n-Decane	124-18-5	< 7.12E-06	< 7.63E-06	< 1.06E-05	< 8.45E-06
		n-Heptane	142-82-5	2.43E-03	3.30E-03	6.39E-04	2.12E-03
		n-Hexane	110-54-3	2.16E-04	1.23E-04	3.21E-05	1.24E-04
		n-Nonane	111-84-2	8.55E-05	6.34E-05	< 2.12E-06	< 5.04E-05
		n-Octane	111-65-9	2.00E-04	1.45E-04	1.54E-04	1.67E-04
		n-Pentane	109-66-0	6.57E-06	< 1.55E-06	1.13E-05	< 6.47E-06
		n-Propylbenzene	103-65-1	< 1.34E-06	< 1.43E-06	< 1.99E-06	< 1.59E-06
		o-Ethyltoluene	611-14-3	< 6.68E-06	< 7.16E-06	< 9.94E-06	< 7.93E-06
		o-Xylene	95-47-6	< 1.33E-06	< 1.42E-06	5.43E-05	< 1.90E-05
		p-Cymene	99-87-6	< 6.71E-06	< 7.19E-06	< 9.99E-06	< 7.97E-06
		p-Ethyltoluene	622-96-8	< 1.34E-06	< 1.43E-06	< 1.99E-06	< 1.59E-06
		Propane	74-98-6	9.56E-05	1.34E-04	< 2.30E-06	< 7.73E-05
		Propylene	115-07-1	< 1.40E-06	< 1.50E-06	< 2.09E-06	< 1.67E-06
1		Propylene Oxide	00075-56-9	< 4.81E-05	< 5.15E-05	< 7.16E-05	< 5.71E-05
		Styrene	100-42-5	< 1.30E-06	< 1.40E-06	4.94E-05	< 1.74E-05
1		Tetrachloroethene	00127-18-4	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
		Toluene	108-88-3	7.90E-05	6.77E-05	4.12E-04	1.86E-04
1		trans-1,2-Dichloroethene	00156-60-5	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
1		trans-1,3-Dichloropropene	10061-02-6	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
		trans-2-Butene	624-64-6	< 1.40E-06	< 1.50E-06	< 2.09E-06	< 1.67E-06
		trans-2-Hexene	4050-45-7	< 1.40E-06	< 1.50E-06	< 2.09E-06	< 1.67E-06
		trans-2-Pentene	646-04-8	< 1.40E-06	< 1.50E-06	< 2.09E-06	< 1.67E-06
1		Trichloroethene	00079-01-6	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
1		Trichlorofluoromethane	00075-69-4	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
1		Trichlortrifluoroethane	00076-13-1	< 2.40E-05	< 2.58E-05	1.16E-03	< 4.04E-04
1	2	Trimethyl Cyclohexane Isomer		0.00E+00	0.00E+00	1.79E-04	5.97E-05
1	2	Trimethyl Cyclopentane Isomer		0.00E+00	0.00E+00	3.58E-05	1.19E-05
1	2	Unknown		3.25E-04	1.03E-04	0.00E+00	1.43E-04
1		Vinyl Acetate	00108-05-4	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
1		Vinyl Chloride	00075-01-4	< 2.40E-05	< 2.58E-05	< 3.58E-05	< 2.85E-05
		Total Detected		9.84E-03	1.13E-02	8.53E-03	9.90E-03
		Total with non-detects		< 1.14E-02	< 1.30E-02	< 1.07E-02	< 1.17E-02

1 - TO14 Compounds 2 - Tentatively Identified Compounds

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TABLE F.3-4
SIDEWALL/WHITEWALL GRINDING SULFUR SUMMARY

Compounds	CAS Numbers	Run 1 Inlet	Run 2 Inlet	Run 3 Inlet	Average Inlet w/ non-detects
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.80	< 9.80	< 9.80	< 9.80
Methyl Mercaptan	74-93-1	< 7.90	< 7.90	< 7.90	< 7.90
Ethyl Mercaptan	75-08-1	< 10.00	< 10.00	< 10.00	< 10.00
Dimethyl Sulfide	75-18-3	< 10.00	< 10.00	< 10.00	< 10.00
Carbon Disulfide	75-15-0	< 12.00	< 12.00	< 12.00	< 12.00
Isopropyl Mercaptan	75-33-2	< 12.00	< 12.00	< 12.00	< 12.00
tert-Butyl Mercaptan	75-66-1	< 15.00	< 15.00	< 15.00	< 15.00
n-Propyl Mercaptan	107-03-9	< 12.00	< 12.00	< 12.00	< 12.00
Ethyl Methyl Sulfide	624-89-5	< 12.00	< 12.00	< 12.00	< 12.00
Thiophene	110-02-1	< 14.00	< 14.00	< 14.00	< 14.00
Isobutyl Mercaptan	513-44-0	< 15.00	< 15.00	< 15.00	< 15.00
Diethyl Sulfide	352-93-2	< 15.00	< 15.00	< 15.00	< 15.00
n-Butyl Mercaptan	109-79-5	< 15.00	< 15.00	< 15.00	< 15.00
Dimethyl Disulfide	624-92-0	< 7.70	< 7.70	< 7.70	< 7.70
3-Methylthiophene	616-44-4	< 16.00	< 16.00	< 16.00	< 16.00
Tetrahydrothiophene	110-01-0	< 14.00	< 14.00	< 14.00	< 14.00
2-Ethylthiophene	872-55-9	< 18.00	< 18.00	< 18.00	< 18.00
2,5-Dimethylthiophene	638-02-8	< 18.00	< 18.00	< 18.00	< 18.00
Diethyl Disulfide	110-81-6	< 10.00	< 10.00	< 10.00	< 10.00
Total Detected		0.00	0.00	0.00	0.00
Total with non-detects		< 243.4	< 243.4	< 243.4	< 243.40
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 1.71E-04	< 1.76E-04	< 1.75E-04	< 1.74E-04
Methyl Mercaptan	74-93-1	< 1.38E-04	< 1.42E-04	< 1.41E-04	< 1.40E-04
Ethyl Mercaptan	75-08-1	< 1.74E-04	< 1.80E-04	< 1.79E-04	< 1.78E-04
Dimethyl Sulfide	75-18-3	< 1.74E-04	< 1.80E-04	< 1.79E-04	< 1.78E-04
Carbon Disulfide	75-15-0	< 2.09E-04	< 2.16E-04	< 2.15E-04	< 2.13E-04
Isopropyl Mercaptan	75-33-2	< 2.09E-04	< 2.16E-04	< 2.15E-04	< 2.13E-04
tert-Butyl Mercaptan	75-66-1	< 2.62E-04	< 2.69E-04	< 2.68E-04	< 2.66E-04
n-Propyl Mercaptan	107-03-9	< 2.09E-04	< 2.16E-04	< 2.15E-04	< 2.13E-04
Ethyl Methyl Sulfide	624-89-5	< 2.09E-04	< 2.16E-04	< 2.15E-04	< 2.13E-04
Thiophene	110-02-1	< 2.44E-04	< 2.51E-04	< 2.51E-04	< 2.49E-04
Isobutyl Mercaptan	513-44-0	< 2.62E-04	< 2.69E-04	< 2.68E-04	< 2.66E-04
Diethyl Sulfide	352-93-2	< 2.62E-04	< 2.69E-04	< 2.68E-04	< 2.66E-04
n-Butyl Mercaptan	109-79-5	< 2.62E-04	< 2.69E-04	< 2.68E-04	< 2.66E-04
Dimethyl Disulfide	624-92-0	< 1.34E-04	< 1.38E-04	< 1.38E-04	< 1.37E-04
3-Methylthiophene	616-44-4	< 2.79E-04	< 2.87E-04	< 2.86E-04	< 2.84E-04
Tetrahydrothiophene	110-01-0	< 2.44E-04	< 2.51E-04	< 2.51E-04	< 2.49E-04
2-Ethylthiophene	872-55-9	< 3.14E-04	< 3.23E-04	< 3.22E-04	< 3.20E-04
2,5-Dimethylthiophene	638-02-8	< 3.14E-04	< 3.23E-04	< 3.22E-04	< 3.20E-04
Diethyl Disulfide	110-81-6	< 1.74E-04	< 1.80E-04	< 1.79E-04	< 1.78E-04
Total Detected		0.00	0.00	0.00	0.00
Total with non-detects		< 4.24E-03	< 4.37E-03	< 4.36E-03	< 4.32E-03
Sulfur (lbs/lb rubber removed)					
Carbonyl Sulfide	463-58-1	< 1.18E-05	< 1.26E-05	< 1.75E-05	< 1.40E-05
Methyl Mercaptan	74-93-1	< 9.50E-06	< 1.02E-05	< 1.41E-05	< 1.13E-05
Ethyl Mercaptan	75-08-1	< 1.20E-05	< 1.29E-05	< 1.79E-05	< 1.43E-05
Dimethyl Sulfide	75-18-3	< 1.20E-05	< 1.29E-05	< 1.79E-05	< 1.43E-05
Carbon Disulfide	75-15-0	< 1.44E-05	< 1.55E-05	< 2.15E-05	< 1.71E-05
Isopropyl Mercaptan	75-33-2	< 1.44E-05	< 1.55E-05	< 2.15E-05	< 1.71E-05
tert-Butyl Mercaptan	75-66-1	< 1.80E-05	< 1.93E-05	< 2.68E-05	< 2.14E-05
n-Propyl Mercaptan	107-03-9	< 1.44E-05	< 1.55E-05	< 2.15E-05	< 1.71E-05
Ethyl Methyl Sulfide	624-89-5	< 1.44E-05	< 1.55E-05	< 2.15E-05	< 1.71E-05
Thiophene	110-02-1	< 1.68E-05	< 1.80E-05	< 2.51E-05	< 2.00E-05
Isobutyl Mercaptan	513-44-0	< 1.80E-05	< 1.93E-05	< 2.68E-05	< 2.14E-05
Diethyl Sulfide	352-93-2	< 1.80E-05	< 1.93E-05	< 2.68E-05	< 2.14E-05
n-Butyl Mercaptan	109-79-5	< 1.80E-05	< 1.93E-05	< 2.68E-05	< 2.14E-05
Dimethyl Disulfide	624-92-0	< 9.26E-06	< 9.92E-06	< 1.38E-05	< 1.10E-05
3-Methylthiophene	616-44-4	< 1.92E-05	< 2.06E-05	< 2.86E-05	< 2.28E-05
Tetrahydrothiophene	110-01-0	< 1.68E-05	< 1.80E-05	< 2.51E-05	< 2.00E-05
2-Ethylthiophene	872-55-9	< 2.16E-05	< 2.32E-05	< 3.22E-05	< 2.57E-05
2,5-Dimethylthiophene	638-02-8	< 2.16E-05	< 2.32E-05	< 3.22E-05	< 2.57E-05
Diethyl Disulfide	110-81-6	< 1.20E-05	< 1.29E-05	< 1.79E-05	< 1.43E-05
Total Detected		0.00	0.00	0.00	0.00
Total with non-detects		< 2.93E-04	< 3.14E-04	< 4.36E-04	< 3.47E-04

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TABLE F.3-5
SIDEWALL/WHITEWALL GRINDING METALS SUMMARY

	Run 1		Run 2		Run 3		AVERAGE	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet w/ non-detects	Outlet w/ non-detects
METALS (µg) *								
Cr	63.25	15.50	42.00	86.00	29.00	50.75	44.75	50.75
Cu	< 1.25	10.50	< 1.25	14.00	< 1.25	12.50	< 1.25	12.33
Mg	383.50	20.00	343.50	57.75	298.50	24.50	341.83	34.08
Ni	31.00	23.50	24.25	148.80	18.00	105.00	24.42	92.43
Zn	50997.00	63.25	32747.00	250.00	24177.00	89.25	35973.67	134.17
Cd	2.70	1.40	2.27	1.59	2.03	3.17	2.33	2.05
Pb	75.87	5.64	44.12	5.45	35.12	4.07	51.70	5.05
Total Detected	51553.32	139.79	33203.13	563.59	24559.65	289.24	36438.70	330.87
Total with non-detects	< 51554.57	139.79	< 33204.38	563.59	< 24560.90	289.24	< 36439.95	330.87
METALS (µg)/m³								
Cr	24.79	6.62	21.57	51.16	10.92	17.17	19.09	24.98
Cu	< 0.49	4.48	< 0.64	8.33	< 0.47	4.23	< 0.53	5.68
Mg	150.28	8.54	176.44	34.35	112.42	8.29	146.38	17.06
Ni	12.15	10.03	12.46	88.51	6.78	35.52	10.46	44.69
Zn	19984.48	26.99	16820.19	148.71	9105.83	30.19	15303.50	68.63
Cd	1.06	0.60	1.16	0.94	0.76	1.07	1.00	0.87
Pb	29.73	2.41	22.66	3.24	13.23	1.38	21.87	2.34
Total Detected	20202.49	59.66	17054.48	335.24	9249.94	97.85	15502.30	164.25
Total with non-detects	< 20202.98	59.66	< 17055.12	335.24	< 9250.41	97.85	< 15502.84	164.25
METALS (lb/hr)								
Cr	4.25E-04	9.64E-05	3.85E-04	7.79E-04	1.93E-04	2.60E-04	3.34E-04	3.79E-04
Cu	< 8.40E-06	6.53E-05	< 1.14E-05	1.27E-04	< 8.33E-06	6.41E-05	< 9.39E-06	8.54E-05
Mg	2.58E-03	1.24E-04	3.15E-03	5.23E-04	1.99E-03	1.26E-04	2.57E-03	2.58E-04
Ni	2.08E-04	1.46E-04	2.22E-04	1.35E-03	1.20E-04	5.39E-04	1.83E-04	6.78E-04
Zn	3.42E-01	3.94E-04	3.00E-01	2.27E-03	1.61E-01	4.58E-04	2.68E-01	1.04E-03
Cd	1.81E-05	8.70E-06	2.07E-05	1.44E-05	1.35E-05	1.63E-05	1.75E-05	1.31E-05
Pb	5.10E-04	3.51E-05	4.04E-04	4.94E-05	2.34E-04	2.09E-05	3.83E-04	3.51E-05
Total Detected	3.46E-01	8.70E-04	3.04E-01	5.11E-03	1.64E-01	1.48E-03	2.71E-01	2.49E-03
Total with non-detects	< 3.46E-01	8.70E-04	< 3.04E-01	5.11E-03	< 1.64E-01	1.48E-03	< 2.71E-01	2.49E-03
METALS (lb/lb rubber removed)								
Cr	2.93E-05	6.65E-06	2.76E-05	5.59E-05	1.93E-05	2.60E-05	2.54E-05	2.95E-05
Cu	< 5.79E-07	4.51E-06	< 8.21E-07	9.10E-06	< 8.33E-07	6.41E-06	< 7.44E-07	6.67E-06
Mg	1.78E-04	8.58E-06	2.26E-04	3.75E-05	1.99E-04	1.26E-05	2.01E-04	1.96E-05
Ni	1.44E-05	1.01E-05	1.59E-05	9.67E-05	1.20E-05	5.39E-05	1.41E-05	5.36E-05
Zn	2.36E-02	2.71E-05	2.15E-02	1.63E-04	1.61E-02	4.58E-05	2.04E-02	7.85E-05
Cd	1.25E-06	6.00E-07	1.49E-06	1.03E-06	1.35E-06	1.63E-06	1.36E-06	1.09E-06
Pb	3.51E-05	2.42E-06	2.90E-05	3.54E-06	2.34E-05	2.09E-06	2.92E-05	2.68E-06
Total Detected	2.39E-02	6.00E-05	2.18E-02	3.66E-04	1.64E-02	1.48E-04	2.07E-02	1.92E-04
Total with non-detects	< 2.39E-02	6.00E-05	< 2.18E-02	3.66E-04	< 1.64E-02	1.48E-04	< 2.07E-02	1.92E-04

* - Blank corrected

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TABLE F.3-6

SIDEWALL/WHITEWALL GRINDING PARTICULATE MATTER SUMMARY

	Run-1		Run-2		Run-3		Averages	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Particulate Matter - (mg)	3057.1	15.6	1968.6	24.5	1443.2	13.8	2156.3	18.0
Sample Volume (dscf)	90.107	82.737	68.746	59.362	93.754	104.378	84.202	82.159
Flowrate (dscfm)	4575	3892	4760	4067	4723	4049	4686	4003
PM- (grain/dscf)	0.5236	0.0029	0.4419	0.0064	0.2376	0.0020	0.4010	0.0038
PM- (mg/m³)	1198.0	6.66	1011.2	14.57	543.6	4.7	917.57	8.63
PM (lb/hr)	2.05E+01	9.71E-02	1.80E+01	2.22E-01	9.62E+00	7.08E-02	1.61E+01	1.30E-01
Run Time (min)	120	120	130	130	90	90	113	113
Rubber Removed (lbs)	29.0	29.0	30.2	30.2	15.0	15.0	24.7	24.7
PM (lb/lb rubber removed)	1.42E+00	6.69E-03	1.29E+00	1.59E-02	9.62E-01	7.08E-03	1.22E+00	9.90E-03

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TABLE F.3-7

SIDEWALL/WHITEWALL GRINDING POM SUMMARY

	Run 1		Run 2		Run 3		Average	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
POM- (mg)	356.7	15.0	195.1	17.8	149.6	51.4	233.8	28.1
Sample Volume (dscf)	91.127	77.674	72.925	56.090	98.625	81.306	87.559	71.690
POM- (mg/m³)	138.22	6.82	94.47	11.21	53.56	22.32	95.42	13.45
Flowrate (dscfm)	4434	3724	4782	3892	4727	3957	4648	3858
POM (lb/hr)	2.30E+00	9.51E-02	1.69E+00	1.63E-01	9.48E-01	3.31E-01	1.65E+00	1.96E-01
Run Time (min)	120	120	130	130	90	90	113	113
Rubber removed (lbs)	29	29	30.2	30.2	15	15	25	25
POM (lb/lb rubber removed)	1.58E-01	6.56E-03	1.21E-01	1.17E-02	9.48E-02	3.31E-02	1.25E-01	1.71E-02

TRC

Section F.4

Belt Grinding

TRC

Section F.4

Belt Grinding

Table Number	Title	No. of Pages
F.4-1	Belt Grinding Summary Table	2
F.4-2	Belt Grinding Speciated Semivolatiles Summary	6
F.4-3	Belt Grinding Speciated Volatiles Summary	6
F.4-4	Belt Grinding Sulfur Summary	1
F.4-5	Belt Grinding Metals Summary	1
F.4-6	Belt Grinding POM Summary	1
F.4-7	Belt Grinding Particulate Matter Summary	1

TRC

TABLE F.4-1
BELT GRINDING SUMMARY

	Run 1	Run 2	Run 3	Average
Rubber Removed during Test Run (lbs)	139.0	130.3	164.8	144.7
Run Time (min)	120	120	120	120.0
Total Volatiles (ppm/run)	6.7	5.9	2.2	4.9
Total Volatiles (lbs/hr)	1.66E-01	1.50E-01	5.58E-02	1.24E-01
Total Volatiles (lbs/lb rubber removed)	2.39E-03	2.30E-03	6.78E-04	1.79E-03
Standard Deviation (lbs/lb rubber removed)	1.77E-03	1.32E-03	4.23E-04	1.17E-03

	Run 1			Run 2			Run 3			Average		
	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out
Total Spec. Semi Vol (µg)/m³)	626.65		139.21	705.53		169.33	815.67		223.98	715.95		177.51
Total Spec. Semi Vol (lbs/hr)	8.57E-03		2.30E-03	9.53E-03		2.69E-03	1.12E-02		3.61E-03	9.76E-03		2.87E-03
Total Spec. Semi Vol (lbs/lb rubber removed) Detected	1.23E-04		3.31E-05	1.46E-04		4.14E-05	1.36E-04		4.38E-05	1.35E-04		3.94E-05
Total Spec. Semi Vol (lbs/lb rubber removed) with non-detects	< 2.47E-04		< 1.10E-04	< 2.57E-04		< 1.24E-04	< 2.27E-04		< 1.06E-04	< 2.44E-04		< 1.13E-04
Total Speciated Vols. (µg/m³)	12298.17		12546.68	13145.86		16730.67	13463.49		14291.48	12969.17		14522.94
Total Speciated Vols. (lbs/hr)	1.68E-01		2.07E-01	1.78E-01		2.66E-01	1.84E-01		2.30E-01	1.77E-01		2.35E-01
Total Speciated Vols. (lbs/lb rubber removed) Detected	2.42E-03		2.98E-03	2.73E-03		4.09E-03	2.24E-03		2.80E-03	2.46E-03		3.29E-03
Total Speciated Vols. (lbs/lb rubber removed) with non-detects	< 2.94E-03		< 3.27E-03	< 3.25E-03		< 4.36E-03	< 2.43E-03		< 3.03E-03	< 2.87E-03		< 3.55E-03
Total Sulfur (µg/m³)	1120.0		1269.6	1046.5		1300.0	1199.1		1180.0	1121.9		1249.9
Total Sulfur (lbs/hr)	1.53E-02		2.10E-02	1.41E-02		2.07E-02	1.64E-02		1.90E-02	1.53E-02		2.02E-02
Total Sulfur (lbs/lb rubber removed) Detected	2.20E-04		3.02E-04	2.17E-04		3.18E-04	1.99E-04		2.31E-04	2.12E-04		2.83E-04
Total Sulfur (lbs/lb rubber removed) with non-detects	< 3.12E-04		< 3.55E-04	< 3.09E-04		< 8.83E-04	< 2.36E-04		< 6.83E-04	< 2.86E-04		< 6.40E-04
Total Metals (µg/m³)												
Total Metals (lbs/hr)												
Total Metals (lbs/lb rubber removed)												
POM (mg/m³)												
POM (lb/hr)												
POM (lb/lb rubber removed)												
Total PM (mg/m³)												
Total PM (lb/hr)												
Total PM (lb/lb rubber removed removed)												

TRC

TABLE F.4-1
BELT GRINDING SUMMARY

	Run 1	Run 2	Run 3	Average
Rubber Removed during Test Run (lbs)	131.4	130.1	108.3	123.3
Run Time (min)	120	120	120	120

Total Volatiles (ppm/run)	
Total Volatiles (lbs/hr)	
Total Volatiles (lbs/lb rubber removed)	
Standard Deviation (lbs/lb rubber removed)	

	Run 1			Run 2			Run 3			Average		
	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out
Total Spec. Semi Vol (μg)/m³)												
Total Spec. Semi Vol (lbs/hr)												
Total Spec. Semi Vol (lbs/lb rubber removed) Detected												
Total Spec. Semi Vol (lbs/lb rubber removed) with non-detects												
Total Speciated Vols. (μg/m³)												
Total Speciated Vols. (lbs/hr)												
Total Speciated Vols. (lbs/lb rubber removed) Detected												
Total Speciated Vols. (lbs/lb rubber removed) with non-detects												
Total Sulfur (μg/m³)												
Total Sulfur (lbs/hr)												
Total Sulfur (lbs/lb rubber removed) Detected												
Total Sulfur (lbs/lb rubber removed) with non-detects												
Total Metals (μg/m³)	248,779.20	394.17	247.37	213,037.42	484.45	134.38	187,770.87	253.52	107.55	216,529.16	377.38	163.10
Total Metals (lbs/hr)	3.37E+00	6.07E-03	3.55E-03	2.94E+00	6.65E-03	1.93E-03	2.56E+00	3.98E-03	1.64E-03	2.96E+00	5.57E-03	2.37E-03
Total Metals (lbs/lb rubber removed)	5.13E-02	9.24E-05	5.40E-05	4.52E-02	1.02E-04	2.96E-05	4.72E-02	7.35E-05	3.03E-05	4.79E-02	8.94E-05	3.80E-05
POM (mg/m³)	5.9	1.1	0.3	4.7	11.0	4.0	1.1	8.7	3.6	3.9	6.9	2.7
POM (lb/hr)	7.96E-02	1.73E-02	6.17E-03	6.46E-02	1.76E-01	7.44E-02	1.44E-02	1.34E-01	6.83E-02	5.29E-02	1.09E-01	4.96E-02
POM (lb/lb rubber removed)	1.21E-03	2.64E-04	9.39E-05	9.93E-04	2.71E-03	1.14E-03	2.66E-04	2.48E-03	1.26E-03	8.24E-04	1.82E-03	8.33E-04
Total PM (mg/m³)	6197.9	64.5	1.86	5269.8	57.1	1.58	4646.4	29.3	1.3	5371.40	50.3	1.6
Total PM (lb/hr)	84.047	0.993	0.027	72.686	0.784	0.023	63.252	0.461	0.020	73.328	0.746	0.023
Total PM (lb/lb rubber removed removed)	1.28E+00	1.51E-02	4.06E-04	1.12E+00	1.20E-02	3.48E-04	1.17E+00	8.51E-03	3.61E-04	1.19E+00	1.19E-02	3.72E-04

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TABLE F.4-2
BELT GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Cyc-In	Run 2 Cyc-In	Run 3 Cyc-In	Run 1 ESP-Out	Run 2 ESP-Out	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average ESP-Out w/ non-detects
Speciated Semivolatiles (µg/m³)									
Pyridine	110-86-1	< 7.41	< 6.53	< 6.81	< 3.82	< 4.05	< 3.72	< 6.92	< 3.86
Phenol	108-95-2	36.86	38.61	68.45	29.66	36.12	40.77	47.97	35.51
bis(2-Chloroethyl)ether	111-44-4	< 6.04	< 5.31	< 5.55	< 3.11	< 3.30	< 3.02	< 5.63	< 3.14
2-Chlorophenol	95-57-8	< 3.94	< 3.47	< 3.62	< 2.03	< 2.15	< 1.98	< 3.68	< 2.06
1,3-Dichlorobenzene	541-73-1	< 3.67	< 3.23	< 3.38	< 1.89	< 2.01	< 1.84	< 3.43	< 1.91
1,4-Dichlorobenzene	106-46-7	< 3.54	< 3.11	< 3.25	< 1.82	< 1.93	< 1.77	< 3.30	< 1.84
1,2-Dichlorobenzene	95-50-1	< 3.74	< 3.29	< 3.44	< 1.93	< 2.04	< 1.88	< 3.49	< 1.95
2,2'-oxybis(1-Chloropropane)	108-60-1	< 6.07	< 5.34	< 5.58	< 3.12	< 3.32	< 3.04	< 5.66	< 3.16
Benzyl alcohol	100-51-6	< 6.65	< 5.86	< 6.11	< 3.43	< 3.64	< 3.34	< 6.21	< 3.47
2-Methylphenol	95-48-7	< 5.49	< 4.84	< 5.05	< 2.83	< 3.00	< 2.76	< 5.13	< 2.86
3/4-Methylphenol	108-39-4/106-44-5	< 4.76	< 4.19	4.58	< 2.45	< 2.60	< 2.38	< 4.51	< 2.48
N-Nitroso-di-n-propylamine	621-64-7	< 7.19	< 6.33	< 6.61	< 3.71	< 3.93	< 3.60	< 6.71	< 3.75
Hexachloroethane	67-72-1	< 6.58	< 5.80	< 6.05	< 3.39	< 3.60	< 3.30	< 6.14	< 3.43
Nitrobenzene	98-95-3	< 4.06	< 3.57	< 3.66	< 2.10	< 2.13	< 2.00	< 3.76	< 2.08
Isophorone	78-59-1	< 2.42	< 2.13	< 2.18	< 1.26	< 1.27	< 1.19	< 2.24	< 1.24
2-Nitrophenol	88-75-5	< 5.79	< 5.09	< 5.23	< 3.01	< 3.05	< 2.86	< 5.37	< 2.97
2,4-Dimethylphenol	105-67-9	< 4.73	< 4.16	< 4.27	< 2.46	< 2.49	< 2.34	< 4.39	< 2.43
bis(2-Chloroethoxy)methane	111-91-1	< 4.56	< 4.01	< 4.12	< 2.37	< 2.40	< 2.25	< 4.23	< 2.34
Benzoic acid	65-85-0	< 7.46	< 6.55	< 6.73	3.19	8.35	< 3.68	< 6.91	< 5.07
2,4-Dichlorophenol	120-83-2	< 4.40	< 3.87	< 3.97	< 2.28	< 2.32	< 2.17	< 4.08	< 2.26
1,2,4-Trichlorobenzene	120-82-1	< 3.84	< 3.38	< 3.47	< 1.99	< 2.02	< 1.90	< 3.56	< 1.97
Naphthalene	91-20-3	19.70	18.71	25.89	13.50	16.85	16.20	21.43	15.52
4-Chloroaniline	106-47-8	< 3.50	< 3.07	< 3.16	< 1.81	< 1.84	< 1.73	< 3.24	< 1.79
Hexachlorobutadiene	87-68-3	< 5.39	< 4.74	< 4.86	< 2.80	< 2.84	< 2.66	< 5.00	< 2.77
4-Chloro-3-methylphenol	59-50-7	< 5.19	< 4.56	< 4.68	< 2.69	< 2.73	< 2.56	< 4.81	< 2.66
2-Methylnaphthalene	91-57-6	70.60	68.75	99.34	39.27	47.07	50.45	79.56	45.60
Hexachlorocyclopentadiene	77-47-4	< 4.99	< 4.22	< 4.69	< 2.53	< 2.51	< 2.40	< 4.63	< 2.48
2,4,6-Trichlorophenol	88-06-2	< 6.07	< 5.13	< 5.70	< 3.07	< 3.06	< 2.91	< 5.63	< 3.01
2,4,5-Trichlorophenol	95-95-4	< 5.70	< 4.81	< 5.35	< 2.88	< 2.87	< 2.73	< 5.29	< 2.83
2-Chloronaphthalene	91-58-7	< 2.16	< 1.83	< 2.03	< 1.09	< 1.09	< 1.04	< 2.01	< 1.07
2-Nitroaniline	88-74-4	< 8.04	< 6.80	< 7.55	< 4.06	< 4.04	< 3.86	< 7.46	< 3.99
Dimethylphthalate	131-11-3	< 1.92	< 1.62	< 1.80	< 0.97	< 0.96	< 0.92	< 1.78	< 0.95
2,6-Dinitrotoluene	606-20-2	< 7.90	< 6.67	< 7.42	< 3.99	< 3.98	< 3.79	< 7.33	< 3.92
2,4-Dinitrotoluene	121-14-2	< 5.58	< 4.72	< 5.24	< 2.82	< 2.81	< 2.68	< 5.18	< 2.77
Acenaphthylene	208-96-8	< 1.31	< 1.10	< 1.23	< 0.66	< 0.66	< 0.63	< 1.21	< 0.65
3-Nitroaniline	99-09-2	< 8.80	< 7.44	< 8.27	< 4.45	< 4.43	< 4.22	< 8.17	< 4.37
Acenaphthene	83-32-9	0.52	< 2.06	< 2.29	< 1.23	< 1.23	< 1.17	< 1.62	< 1.21
2,4-Dinitrophenol	105-67-9	< 16.26	< 13.74	< 15.27	< 8.22	< 8.18	< 7.80	< 15.09	< 8.07
4-Nitrophenol	100-02-7	< 13.66	< 11.55	< 12.83	< 6.91	< 6.87	< 6.55	< 12.68	< 6.78
Dibenzofuran	132-64-9	< 1.62	< 1.36	< 1.52	< 0.82	< 0.81	< 0.77	< 1.50	< 0.80
2,3,4,6-Tetrachlorophenol		< 6.77	< 5.72	< 6.36	< 3.42	< 3.40	< 3.25	< 6.28	< 3.36
Diethylphthalate	84-66-2	3.14	1.88	0.86	< 0.84	< 0.84	0.94	1.96	< 0.87
4-Chlorophenyl-phenylether	70005-72-3	< 3.78	< 3.19	< 3.55	< 1.91	< 1.90	< 1.81	< 3.50	< 1.87
Fluorene	86-73-7	< 2.05	< 1.73	< 1.93	< 1.04	< 1.03	< 0.98	< 1.90	< 1.02
4-Nitroaniline	100-01-6	< 9.43	< 7.98	< 8.86	< 4.77	< 4.75	< 4.53	< 8.76	< 4.68
4,6-Dinitro-2-methylphenol	534-52-1	< 13.68	< 10.87	< 11.53	< 5.99	< 6.03	< 5.70	< 12.02	< 5.91
4-Bromophenyl-phenylether	101-55-3	< 8.51	< 6.76	< 7.17	< 3.72	< 3.75	< 3.55	< 7.48	< 3.67
Hexachlorobenzene	118-74-1	< 6.60	< 5.24	< 5.56	< 2.89	< 2.91	< 2.75	< 5.80	< 2.85
Pentachlorophenol	87-86-5	< 11.56	< 9.18	< 9.73	< 5.05	< 5.10	< 4.81	< 10.16	< 4.99
Phenanthrene	85-01-8	< 1.97	< 1.57	< 1.66	< 0.86	< 0.87	< 0.82	< 1.73	< 0.85
Anthracene	120-12-7	< 2.06	< 1.64	< 1.74	< 0.90	< 0.91	< 0.86	< 1.81	< 0.89
Carbazole		< 2.51	< 1.99	0.15	< 1.10	< 1.11	< 1.05	< 1.55	< 1.08
Di-n-butylphthalate	84-74-2	5.66	41.30	1.49	0.00	0.00	47.00	16.15	15.67
Fluoranthene	206-44-0	< 1.95	< 1.55	< 1.65	< 0.86	< 0.86	< 0.81	< 1.72	< 0.84
Pyrene	129-00-0	18.64	14.42	< 1.13	0.77	1.13	1.23	< 11.40	1.05
Butylbenzylphthalate	85-68-7	< 3.58	< 2.49	< 2.27	< 1.69	< 1.92	< 1.82	< 2.78	< 1.81
3,3'-Dichlorobenzidine	91-94-1	< 9.37	< 6.53	< 5.93	< 4.42	< 5.03	< 4.77	< 7.28	< 4.74
bis(2-Ethylhexyl)phthalate	117-81-7	353.83	346.17	105.28	12.48	7.50	4.32	268.43	8.10
Benzo(a)anthracene	56-55-3	< 2.49	< 1.73	< 1.58	< 1.18	< 1.34	< 1.27	< 1.93	< 1.26

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TABLE F.4-2
BELT GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Cyc-In	Run 2 Cyc-In	Run 3 Cyc-In	Run 1 ESP-Out	Run 2 ESP-Out	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average ESP-Out w/ non-detects
Speciated Semivolatiles (µg/m³)									
Chrysene	218-01-9	< 2.91	< 2.02	< 1.84	< 1.37	< 1.56	< 1.48	< 2.26	< 1.47
Di-n-octylphthalate	117-84-0	< 1.38	< 0.93	< 0.90	0.41	< 1.13	< 1.10	< 1.07	< 0.88
Benzo(b)fluoranthene	205-99-2	< 2.42	< 1.63	< 1.58	< 1.62	< 1.98	< 1.92	< 1.88	< 1.84
Benzo(k)fluoranthene	207-08-9	< 2.52	< 1.70	< 1.65	< 1.69	< 2.07	< 2.01	< 1.96	< 1.92
Benzo(a)pyrene	50-32-8	< 2.59	< 1.74	< 1.70	< 1.73	< 2.12	< 2.06	< 2.01	< 1.97
Indeno(1,2,3-cd)pyrene	193-39-5	< 3.04	< 2.05	< 1.99	< 2.04	< 2.49	< 2.42	< 2.36	< 2.32
Dibenz(a,h)anthracene	53-90-3	< 3.99	< 2.68	< 2.62	< 2.68	< 3.27	< 3.17	< 3.10	< 3.04
Benzo(g,h,i)perylene	191-24-2	< 3.63	< 2.44	< 2.38	< 2.43	< 2.98	< 2.89	< 2.82	< 2.77
n-Nitrosodimethylamine	62-75-9	< 13.36	< 11.77	< 12.28	< 6.88	< 7.30	< 6.70	< 12.47	< 6.96
Cumene	98-82-8	< 2.18	< 1.92	< 2.01	< 1.12	< 1.19	< 1.09	< 2.04	< 1.14
Aniline	62-53-3	< 4.04	< 3.56	< 3.72	< 2.08	< 2.21	17.70	< 3.77	< 7.33
Benzyl Chloride	100-44-7	< 2.67	< 2.35	< 2.46	< 1.38	< 1.46	< 1.34	< 2.49	< 1.39
Acetophenone	98-86-2	12.50	11.33	12.21	< 2.08	10.72	9.05	12.02	< 7.28
n-Nitrosomorpholine	59-89-2	< 7.94	< 6.99	< 7.30	< 4.09	< 4.34	< 3.98	< 7.41	< 4.14
o-Toluidine	95-53-4	< 3.74	< 3.29	< 3.43	< 1.93	< 2.04	< 1.87	< 3.49	< 1.95
N,N-Dimethylaniline	121-69-7	< 2.97	< 2.61	< 2.68	< 1.54	< 1.56	< 1.46	< 2.76	< 1.52
1,2-Dibromo-3-chloropropane	96-12-8	< 8.56	< 7.53	< 7.87	< 4.41	< 4.68	< 4.29	< 7.99	< 4.46
o-Anisidine	90-04-0	< 5.96	< 5.24	< 5.38	< 3.09	< 3.14	< 2.94	< 5.52	< 3.06
1,4-Phenylenediamine	106-50-3	< 8.36	< 7.35	< 7.54	< 4.34	< 4.40	< 4.13	< 7.75	< 4.29
N,N-Diethylaniline	91-66-7	< 2.56	< 2.25	< 2.35	< 1.32	< 1.40	< 1.28	< 2.38	< 1.33
a,a,a-Trichlorotoluene	98-07-7	< 2.73	< 2.40	< 2.47	< 1.42	< 1.44	< 1.35	< 2.53	< 1.40
Hydroquinone	123-31-9	< 7.46	< 6.55	< 6.73	< 3.87	< 3.93	< 3.68	< 6.91	< 3.83
2-Chloroacetophenone	1341-24-8	< 2.17	< 1.91	< 1.96	< 1.13	< 1.15	< 1.07	< 2.01	< 1.12
Biphenyl	92-52-4	< 2.16	< 1.83	< 2.03	< 1.09	< 1.09	< 1.04	< 2.01	< 1.07
Trifluralin	1582-09-8	< 11.02	< 9.32	< 10.36	< 5.57	< 5.55	< 5.29	< 10.23	< 5.47
4-Aminobiphenyl	92-67-1	< 3.11	< 2.47	< 2.62	< 1.36	< 1.37	< 1.30	< 2.73	< 1.34
Pentachloronitrobenzene	82-68-8	< 15.28	< 12.13	< 12.87	< 6.68	< 6.74	< 6.36	< 13.42	< 6.59
4-Nitrobiphenyl	92-93-3	0.95	< 4.97	< 5.28	< 2.74	< 2.76	< 2.61	< 3.73	< 2.70
Benzidine	92-87-5	< 6.60	< 4.60	< 4.18	< 3.12	< 3.54	< 3.36	< 5.13	< 3.34
4,4'-Methylenedianiline	101-77-9	< 10.40	< 7.25	< 6.59	< 4.91	< 5.58	< 5.30	< 8.08	< 5.27
Dimethylaminoazobenzene	60-11-7	< 7.59	< 5.29	< 4.81	< 3.59	< 4.08	< 3.87	< 5.90	< 3.84
3,3'-Dimethylbenzidine	119-93-7	< 4.93	< 3.44	< 3.12	< 2.33	< 2.65	< 2.51	< 3.83	< 2.49
3,3'-Dimethoxybenzidine	119-90-4	< 9.84	< 6.86	< 6.23	< 4.65	< 5.28	< 5.01	< 7.64	< 4.98
Methylene bis-chloroaniline	101-14-4	< 13.63	< 9.50	< 8.63	< 6.44	< 7.32	< 6.95	< 10.59	< 6.90
3-Furaldehyde	498-60-2	11.83	< 8.49	< 8.86	< 4.97	< 5.27	< 4.83	< 9.73	< 5.02
2-Furaldehyde	98-01-1	61.88	125.93	432.01	24.28	22.36	18.91	206.61	21.85
Cyclohexylamine	108-91-8	< 12.75	< 11.23	< 11.72	< 6.57	< 6.97	< 6.39	< 11.90	< 6.64
N-Nitrosodiethylamine	55-18-5	< 11.43	< 10.07	< 10.51	< 5.89	< 6.25	< 5.73	< 10.67	< 5.96
Cyclohexanone	108-94-1	< 6.40	< 5.64	8.86	< 3.30	< 3.50	< 3.21	< 6.97	< 3.34
1,3-Cyclooctadiene	1700-10-3	< 4.80	< 4.23	< 4.41	< 2.48	< 2.62	< 2.41	< 4.48	< 2.50
1,5-Cyclooctadiene	111-78-4	< 10.41	< 9.16	< 9.57	< 5.36	< 5.69	< 5.22	< 9.71	< 5.42
Camphene	79-92-5	< 5.64	< 4.97	< 5.19	< 2.91	< 3.08	< 2.83	< 5.27	< 2.94
Benzaldehyde	100-52-7	< 6.56	5.08	< 6.02	0.69	< 3.58	1.96	< 5.89	< 2.08
Benzonitrile	100-47-0	< 2.57	< 2.26	< 2.36	< 1.32	2.38	< 1.29	< 2.40	< 1.66
Isooctanol	26952-21-6	< 59.78	< 52.64	< 54.95	< 30.79	< 32.68	< 29.98	< 55.79	< 31.15
1,2,4-Trimethylbenzene	95-63-6	4.56	4.20	4.67	5.06	5.43	4.39	4.48	4.96
3-Methylstyrene	100-80-1	< 3.34	< 2.94	< 3.07	< 1.72	< 1.83	< 1.67	< 3.11	< 1.74
4-Methylstyrene	622-97-9	< 3.78	< 3.32	< 3.47	< 1.94	< 2.06	< 1.89	< 3.52	< 1.97
4-Chlorostyrene	1073-67-2	9.61	8.45	11.29	6.93	6.75	6.36	9.78	6.68
1-Dodecene	112-41-4	< 23.94	< 21.05	< 21.61	< 12.43	< 12.61	< 11.82	< 22.20	< 12.29
Phthalimide	85-41-6	< 8.66	< 7.32	< 8.14	< 4.38	< 4.36	< 4.16	< 8.04	< 4.30
Diphenylamine	122-39-4	16.37	20.69	40.59	2.96	4.68	4.70	25.88	4.11
Total Detected		626.65	705.53	815.67	139.21	169.33	223.98	715.95	177.51
Total with non-detects		< 1255.17	< 1241.04	< 1368.73	< 460.64	< 507.58	< 539.49	< 1288.31	< 502.57

TRC

TABLE F.4-2
BELT GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Cyc-In	Run 2 Cyc-In	Run 3 Cyc-In	Run 1 ESP-Out	Run 2 ESP-Out	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average ESP-Out w/ non-detects
Speciated Semivolatiles (lb/hr)									
Pyridine	110-86-1	< 1.01E-04	< 8.82E-05	< 9.33E-05	< 6.31E-05	< 6.45E-05	< 5.99E-05	< 9.43E-05	< 6.25E-05
Phenol	108-95-2	5.04E-04	5.22E-04	9.37E-04	4.90E-04	5.75E-04	6.57E-04	6.54E-04	5.74E-04
bis(2-Chloroethyl)ether	111-44-4	< 8.25E-05	< 7.18E-05	< 7.60E-05	< 5.14E-05	< 5.25E-05	< 4.88E-05	< 7.68E-05	< 5.09E-05
2-Chlorophenol	95-57-8	< 5.39E-05	< 4.69E-05	< 4.96E-05	< 3.36E-05	< 3.43E-05	< 3.19E-05	< 5.02E-05	< 3.33E-05
1,3-Dichlorobenzene	541-73-1	< 5.02E-05	< 4.37E-05	< 4.63E-05	< 3.12E-05	< 3.20E-05	< 2.97E-05	< 4.67E-05	< 3.10E-05
1,4-Dichlorobenzene	106-46-7	< 4.84E-05	< 4.21E-05	< 4.45E-05	< 3.01E-05	< 3.08E-05	< 2.86E-05	< 4.50E-05	< 2.98E-05
1,2-Dichlorobenzene	95-50-1	< 5.11E-05	< 4.45E-05	< 4.71E-05	< 3.18E-05	< 3.25E-05	< 3.02E-05	< 4.76E-05	< 3.15E-05
2,2'-oxybis(1-Chloropropane)	108-60-1	< 8.30E-05	< 7.22E-05	< 7.64E-05	< 5.16E-05	< 5.28E-05	< 4.91E-05	< 7.72E-05	< 5.12E-05
Benzyl alcohol	100-51-6	< 9.09E-05	< 7.92E-05	< 8.37E-05	< 5.66E-05	< 5.79E-05	< 5.38E-05	< 8.46E-05	< 5.61E-05
2-Methylphenol	95-48-7	< 7.51E-05	< 6.54E-05	< 6.92E-05	< 4.68E-05	< 4.78E-05	< 4.44E-05	< 6.99E-05	< 4.63E-05
3/4-Methylphenol	108-39-4/106-44-5	< 6.50E-05	< 5.66E-05	6.27E-05	< 4.05E-05	< 4.14E-05	< 3.84E-05	< 6.14E-05	< 4.01E-05
N-Nitroso-di-n-propylamine	621-64-7	< 9.84E-05	< 8.56E-05	< 9.05E-05	< 6.12E-05	< 6.26E-05	< 5.81E-05	< 9.15E-05	< 6.06E-05
Hexachloroethane	67-72-1	< 9.00E-05	< 7.83E-05	< 8.28E-05	< 5.61E-05	< 5.73E-05	< 5.32E-05	< 8.37E-05	< 5.55E-05
Nitrobenzene	98-95-3	< 5.55E-05	< 4.82E-05	< 5.01E-05	< 3.48E-05	< 3.40E-05	< 3.23E-05	< 5.13E-05	< 3.37E-05
Isophorone	78-59-1	< 3.31E-05	< 2.87E-05	< 2.99E-05	< 2.08E-05	< 2.03E-05	< 1.92E-05	< 3.06E-05	< 2.01E-05
2-Nitrophenol	88-75-5	< 7.92E-05	< 6.88E-05	< 7.16E-05	< 4.97E-05	< 4.86E-05	< 4.61E-05	< 7.32E-05	< 4.81E-05
2,4-Dimethylphenol	105-67-9	< 6.47E-05	< 5.62E-05	< 5.85E-05	< 4.06E-05	< 3.97E-05	< 3.77E-05	< 5.98E-05	< 3.93E-05
bis(2-Chloroethoxy)methane	111-91-1	< 6.24E-05	< 5.41E-05	< 5.64E-05	< 3.91E-05	< 3.83E-05	< 3.63E-05	< 5.76E-05	< 3.79E-05
Benzoic acid	65-85-0	< 1.02E-04	< 8.85E-05	< 9.22E-05	5.27E-05	1.33E-04	< 5.93E-05	< 9.42E-05	< 8.16E-05
2,4-Dichlorophenol	120-83-2	< 6.02E-05	< 5.23E-05	< 5.44E-05	< 3.77E-05	< 3.68E-05	< 3.50E-05	< 5.56E-05	< 3.65E-05
1,2,4-Trichlorobenzene	120-82-1	< 5.26E-05	< 4.56E-05	< 4.75E-05	< 3.30E-05	< 3.22E-05	< 3.05E-05	< 4.86E-05	< 3.19E-05
Naphthalene	91-20-3	2.69E-04	2.53E-04	3.55E-04	2.23E-04	2.68E-04	2.61E-04	2.92E-04	2.51E-04
4-Chloroaniline	106-47-8	< 4.78E-05	< 4.15E-05	< 4.32E-05	< 3.00E-05	< 2.93E-05	< 2.78E-05	< 4.42E-05	< 2.90E-05
Hexachlorobutadiene	87-68-3	< 7.37E-05	< 6.40E-05	< 6.66E-05	< 4.63E-05	< 4.52E-05	< 4.29E-05	< 6.81E-05	< 4.48E-05
4-Chloro-3-methylphenol	59-50-7	< 7.10E-05	< 6.16E-05	< 6.41E-05	< 4.45E-05	< 4.35E-05	< 4.12E-05	< 6.56E-05	< 4.31E-05
2-Methylnaphthalene	91-57-6	9.66E-04	9.29E-04	1.36E-03	6.49E-04	7.49E-04	8.13E-04	1.08E-03	7.37E-04
Hexachlorocyclopentadiene	77-47-4	< 6.83E-05	< 5.70E-05	< 6.42E-05	< 4.17E-05	< 4.00E-05	< 3.86E-05	< 6.32E-05	< 4.01E-05
2,4,6-Trichlorophenol	88-06-2	< 8.30E-05	< 6.93E-05	< 7.80E-05	< 5.07E-05	< 4.86E-05	< 4.69E-05	< 7.68E-05	< 4.87E-05
2,4,5-Trichlorophenol	95-95-4	< 7.79E-05	< 6.50E-05	< 7.33E-05	< 4.76E-05	< 4.56E-05	< 4.40E-05	< 7.21E-05	< 4.57E-05
2-Chloronaphthalene	91-58-7	< 2.96E-05	< 2.47E-05	< 2.78E-05	< 1.81E-05	< 1.73E-05	< 1.67E-05	< 2.74E-05	< 1.74E-05
2-Nitroaniline	88-74-4	< 1.10E-04	< 9.18E-05	< 1.03E-04	< 6.72E-05	< 6.44E-05	< 6.22E-05	< 1.02E-04	< 6.46E-05
Dimethylphthalate	131-11-3	< 2.63E-05	< 2.19E-05	< 2.47E-05	< 1.60E-05	< 1.54E-05	< 1.48E-05	< 2.43E-05	< 1.54E-05
2,6-Dinitrotoluene	606-20-2	< 1.08E-04	< 9.02E-05	< 1.02E-04	< 6.60E-05	< 6.33E-05	< 6.11E-05	< 9.99E-05	< 6.34E-05
2,4-Dinitrotoluene	121-14-2	< 7.63E-05	< 6.37E-05	< 7.18E-05	< 4.66E-05	< 4.47E-05	< 4.32E-05	< 7.06E-05	< 4.48E-05
Acenaphthylene	208-96-8	< 1.79E-05	< 1.49E-05	< 1.68E-05	< 1.09E-05	< 1.05E-05	< 1.01E-05	< 1.65E-05	< 1.05E-05
3-Nitroaniline	99-09-2	< 1.20E-04	< 1.01E-04	< 1.13E-04	< 7.35E-05	< 7.05E-05	< 6.81E-05	< 1.11E-04	< 7.07E-05
Acenaphthene	83-32-9	7.05E-06	< 2.78E-05	< 3.13E-05	< 2.04E-05	< 1.95E-05	< 1.88E-05	< 2.21E-05	< 1.96E-05
2,4-Dinitrophenol	105-67-9	< 2.22E-04	< 1.86E-04	< 2.09E-04	< 1.36E-04	< 1.30E-04	< 1.26E-04	< 2.06E-04	< 1.31E-04
4-Nitrophenol	100-02-7	< 1.87E-04	< 1.56E-04	< 1.76E-04	< 1.14E-04	< 1.09E-04	< 1.06E-04	< 1.73E-04	< 1.10E-04
Dibenzofuran	132-64-9	< 2.21E-05	< 1.84E-05	< 2.08E-05	< 1.35E-05	< 1.29E-05	< 1.25E-05	< 2.04E-05	< 1.30E-05
2,3,4,6-Tetrachlorophenol		< 9.26E-05	< 7.73E-05	< 8.71E-05	< 5.66E-05	< 5.42E-05	< 5.24E-05	< 8.57E-05	< 5.44E-05
Diethylphthalate	84-66-2	4.29E-05	2.54E-05	1.18E-05	< 1.39E-05	< 1.33E-05	1.51E-05	2.67E-05	< 1.41E-05
4-Chlorophenyl-phenylether	70005-72-3	< 5.16E-05	< 4.31E-05	< 4.86E-05	< 3.16E-05	< 3.03E-05	< 2.92E-05	< 4.78E-05	< 3.03E-05
Fluorene	86-73-7	< 2.80E-05	< 2.34E-05	< 2.64E-05	< 1.71E-05	< 1.64E-05	< 1.58E-05	< 2.59E-05	< 1.65E-05
4-Nitroaniline	100-01-6	< 1.29E-04	< 1.08E-04	< 1.21E-04	< 7.88E-05	< 7.55E-05	< 7.30E-05	< 1.19E-04	< 7.58E-05
4,6-Dinitro-2-methylphenol	534-52-1	< 1.87E-04	< 1.47E-04	< 1.58E-04	< 9.89E-05	< 9.60E-05	< 9.18E-05	< 1.64E-04	< 9.56E-05
4-Bromophenyl-phenylether	101-55-3	< 1.16E-04	< 9.13E-05	< 9.81E-05	< 6.15E-05	< 5.97E-05	< 5.72E-05	< 1.02E-04	< 5.95E-05
Hexachlorobenzene	118-74-1	< 9.02E-05	< 7.08E-05	< 7.61E-05	< 4.77E-05	< 4.63E-05	< 4.43E-05	< 7.90E-05	< 4.61E-05
Pentachlorophenol	87-86-5	< 1.58E-04	< 1.24E-04	< 1.33E-04	< 8.35E-05	< 8.11E-05	< 7.76E-05	< 1.38E-04	< 8.07E-05
Phenanthrene	85-01-8	< 2.70E-05	< 2.12E-05	< 2.28E-05	< 1.43E-05	< 1.38E-05	< 1.32E-05	< 2.36E-05	< 1.38E-05
Anthracene	120-12-7	< 2.82E-05	< 2.21E-05	< 2.38E-05	< 1.49E-05	< 1.45E-05	< 1.39E-05	< 2.47E-05	< 1.44E-05
Carbazole		< 3.43E-05	< 2.69E-05	2.07E-06	< 1.81E-05	< 1.76E-05	< 1.69E-05	< 2.11E-05	< 1.75E-05
Di-n-butylphthalate	84-74-2	7.74E-05	5.58E-04	2.04E-05	0.00E+00	0.00E+00	7.58E-04	2.19E-04	2.53E-04
Fluoranthene	206-44-0	< 2.67E-05	< 2.10E-05	< 2.26E-05	< 1.41E-05	< 1.38E-05	< 1.31E-05	< 2.34E-05	< 1.37E-05
Pyrene	129-00-0	2.55E-04	1.95E-04	< 1.54E-05	1.28E-05	1.80E-05	1.99E-05	< 1.55E-04	1.69E-05
Butylbenzylphthalate	85-68-7	< 4.89E-05	< 3.37E-05	< 3.10E-05	< 2.79E-05	< 3.06E-05	< 2.94E-05	< 3.79E-05	< 2.93E-05
3,3'-Dichlorobenzidine	91-94-1	< 1.28E-04	< 8.82E-05	< 8.12E-05	< 7.31E-05	< 8.00E-05	< 7.69E-05	< 9.92E-05	< 7.67E-05
bis(2-Ethylhexyl)phthalate	117-81-7	4.84E-03	4.68E-03	1.44E-03	2.06E-04	1.19E-04	6.96E-05	3.65E-03	1.32E-04
Benzo(a)anthracene	56-55-3	< 3.41E-05	< 2.34E-05	< 2.16E-05	< 1.94E-05	< 2.13E-05	< 2.05E-05	< 2.64E-05	< 2.04E-05

TRC

TABLE F.4-2
BELT GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Cyc-In	Run 2 Cyc-In	Run 3 Cyc-In	Run 1 ESP-Out	Run 2 ESP-Out	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average ESP-Out w/ non-detects
Speciated Semivolatiles (lb/hr)									
Chrysene	218-01-9	< 3.98E-05	< 2.74E-05	< 2.52E-05	< 2.27E-05	< 2.48E-05	< 2.39E-05	< 3.08E-05	< 2.38E-05
Di-n-octylphthalate	117-84-0	< 1.89E-05	< 1.25E-05	< 1.24E-05	6.82E-06	< 1.80E-05	< 1.77E-05	< 1.46E-05	< 1.42E-05
Benzo(b)fluoranthene	205-99-2	< 3.31E-05	< 2.20E-05	< 2.17E-05	< 2.68E-05	< 3.15E-05	< 3.10E-05	< 2.56E-05	< 2.98E-05
Benzo(k)fluoranthene	207-08-9	< 3.45E-05	< 2.29E-05	< 2.26E-05	< 2.79E-05	< 3.29E-05	< 3.23E-05	< 2.67E-05	< 3.10E-05
Benzo(a)pyrene	50-32-8	< 3.54E-05	< 2.36E-05	< 2.32E-05	< 2.87E-05	< 3.38E-05	< 3.32E-05	< 2.74E-05	< 3.19E-05
Indeno(1,2,3-cd)pyrene	193-39-5	< 4.16E-05	< 2.76E-05	< 2.72E-05	< 3.36E-05	< 3.97E-05	< 3.90E-05	< 3.22E-05	< 3.74E-05
Dibenz(a,h)anthracene	53-90-3	< 5.46E-05	< 3.63E-05	< 3.58E-05	< 4.42E-05	< 5.21E-05	< 5.12E-05	< 4.22E-05	< 4.92E-05
Benzo(g,h,i)perylene	191-24-2	< 4.96E-05	< 3.30E-05	< 3.25E-05	< 4.02E-05	< 4.74E-05	< 4.66E-05	< 3.84E-05	< 4.47E-05
n-Nitrosodimethylamine	62-75-9	< 1.83E-04	< 1.59E-04	< 1.68E-04	< 1.14E-04	< 1.16E-04	< 1.08E-04	< 1.70E-04	< 1.13E-04
Cumene	98-82-8	< 2.98E-05	< 2.59E-05	< 2.75E-05	< 1.86E-05	< 1.90E-05	< 1.76E-05	< 2.78E-05	< 1.84E-05
Aniline	62-53-3	< 5.53E-05	< 4.81E-05	< 5.09E-05	< 3.44E-05	< 3.52E-05	2.85E-04	< 5.14E-05	< 1.18E-04
Benzyl Chloride	100-44-7	< 3.65E-05	< 3.18E-05	< 3.36E-05	< 2.27E-05	< 2.32E-05	< 2.16E-05	< 3.40E-05	< 2.25E-05
Acetophenone	98-86-2	1.71E-04	1.53E-04	1.67E-04	< 3.43E-05	1.71E-04	1.46E-04	1.64E-04	< 1.17E-04
n-Nitrosomorpholine	59-89-2	< 1.09E-04	< 9.45E-05	< 9.99E-05	< 6.76E-05	< 6.91E-05	< 6.42E-05	< 1.01E-04	< 6.70E-05
o-Toluidine	95-53-4	< 5.11E-05	< 4.44E-05	< 4.70E-05	< 3.18E-05	< 3.25E-05	< 3.02E-05	< 4.75E-05	< 3.15E-05
N,N-Dimethylaniline	121-69-7	< 4.07E-05	< 3.53E-05	< 3.67E-05	< 2.55E-05	< 2.49E-05	< 2.36E-05	< 3.76E-05	< 2.47E-05
1,2-Dibromo-3-chloropropane	96-12-8	< 1.17E-04	< 1.02E-04	< 1.08E-04	< 7.28E-05	< 7.45E-05	< 6.92E-05	< 1.09E-04	< 7.22E-05
o-Anisidine	90-04-0	< 8.15E-05	< 7.08E-05	< 7.36E-05	< 5.11E-05	< 5.00E-05	< 4.74E-05	< 7.53E-05	< 4.95E-05
1,4-Phenylenediamine	106-50-3	< 1.14E-04	< 9.93E-05	< 1.03E-04	< 7.17E-05	< 7.00E-05	< 6.65E-05	< 1.06E-04	< 6.94E-05
N,N-Diethylaniline	91-66-7	< 3.50E-05	< 3.04E-05	< 3.21E-05	< 2.18E-05	< 2.23E-05	< 2.07E-05	< 3.25E-05	< 2.16E-05
a,a,a-Trichlorotoluene	98-07-7	< 3.74E-05	< 3.24E-05	< 3.38E-05	< 2.34E-05	< 2.29E-05	< 2.17E-05	< 3.45E-05	< 2.27E-05
Hydroquinone	123-31-9	< 1.02E-04	< 8.85E-05	< 9.22E-05	< 6.39E-05	< 6.25E-05	< 5.93E-05	< 9.42E-05	< 6.19E-05
2-Chloroacetophenone	1341-24-8	< 2.97E-05	< 2.58E-05	< 2.68E-05	< 1.86E-05	< 1.82E-05	< 1.73E-05	< 2.75E-05	< 1.81E-05
Biphenyl	92-52-4	< 2.96E-05	< 2.47E-05	< 2.78E-05	< 1.81E-05	< 1.73E-05	< 1.67E-05	< 2.74E-05	< 1.74E-05
Trifluralin	1582-09-8	< 1.51E-04	< 1.26E-04	< 1.42E-04	< 9.21E-05	< 8.83E-05	< 8.53E-05	< 1.39E-04	< 8.86E-05
4-Aminobiphenyl	92-67-1	< 4.25E-05	< 3.34E-05	< 3.59E-05	< 2.25E-05	< 2.18E-05	< 2.09E-05	< 3.73E-05	< 2.17E-05
Pentachloronitrobenzene	82-68-8	< 2.09E-04	< 1.64E-04	< 1.76E-04	< 1.10E-04	< 1.07E-04	< 1.03E-04	< 1.83E-04	< 1.07E-04
4-Nitrobiphenyl	92-93-3	1.30E-05	< 6.72E-05	< 7.22E-05	< 4.53E-05	< 4.39E-05	< 4.21E-05	< 5.08E-05	< 4.38E-05
Benzidine	92-87-5	< 9.02E-05	< 6.21E-05	< 5.73E-05	< 5.15E-05	< 5.64E-05	< 5.42E-05	< 6.99E-05	< 5.40E-05
4,4'-Methylenedianiline	101-77-9	< 1.42E-04	< 9.79E-05	< 9.03E-05	< 8.12E-05	< 8.89E-05	< 8.55E-05	< 1.10E-04	< 8.52E-05
Dimethylaminoazobenzene	60-11-7	< 1.04E-04	< 7.15E-05	< 6.58E-05	< 5.93E-05	< 6.49E-05	< 6.24E-05	< 8.04E-05	< 6.22E-05
3,3'-Dimethylbenzidine	119-93-7	< 6.74E-05	< 4.64E-05	< 4.27E-05	< 3.84E-05	< 4.21E-05	< 4.05E-05	< 5.22E-05	< 4.03E-05
3,3'-Dimethoxybenzidine	119-90-4	< 1.35E-04	< 9.27E-05	< 8.54E-05	< 7.68E-05	< 8.41E-05	< 8.08E-05	< 1.04E-04	< 8.06E-05
Methylene bis-chloroaniline	101-14-4	< 1.86E-04	< 1.28E-04	< 1.18E-04	< 1.06E-04	< 1.16E-04	< 1.12E-04	< 1.44E-04	< 1.12E-04
3-Furaldehyde	498-60-2	1.62E-04	< 1.15E-04	< 1.21E-04	< 8.21E-05	< 8.39E-05	< 7.79E-05	< 1.33E-04	< 8.13E-05
2-Furaldehyde	98-01-1	8.46E-04	1.70E-03	5.92E-03	4.01E-04	3.56E-04	3.05E-04	2.82E-03	3.54E-04
Cyclohexylamine	108-91-8	< 1.74E-04	< 1.52E-04	< 1.60E-04	< 1.09E-04	< 1.11E-04	< 1.03E-04	< 1.62E-04	< 1.07E-04
N-Nitrosodiethylamine	55-18-5	< 1.56E-04	< 1.36E-04	< 1.44E-04	< 9.73E-05	< 9.94E-05	< 9.24E-05	< 1.45E-04	< 9.64E-05
Cyclohexanone	108-94-1	< 8.75E-05	< 7.62E-05	1.21E-04	< 5.45E-05	< 5.57E-05	< 5.17E-05	< 9.50E-05	< 5.40E-05
1,3-Cyclooctadiene	1700-10-3	< 6.57E-05	< 5.71E-05	< 6.04E-05	< 4.09E-05	< 4.18E-05	< 3.88E-05	< 6.11E-05	< 4.05E-05
1,5-Cyclooctadiene	111-78-4	< 1.42E-04	< 1.24E-04	< 1.31E-04	< 8.86E-05	< 9.05E-05	< 8.41E-05	< 1.32E-04	< 8.78E-05
Camphene	79-92-5	< 7.71E-05	< 6.71E-05	< 7.10E-05	< 4.80E-05	< 4.91E-05	< 4.56E-05	< 7.18E-05	< 4.76E-05
Benzaldehyde	100-52-7	< 8.97E-05	6.87E-05	< 8.25E-05	1.14E-05	< 5.70E-05	3.16E-05	< 8.03E-05	< 3.33E-05
Benzonitrile	100-47-0	< 3.51E-05	< 3.05E-05	< 3.23E-05	< 2.18E-05	3.79E-05	< 2.07E-05	< 3.27E-05	< 2.68E-05
Isooctanol	26952-21-6	< 8.18E-04	< 7.11E-04	< 7.52E-04	< 5.09E-04	< 5.20E-04	< 4.83E-04	< 7.60E-04	< 5.04E-04
1,2,4-Trimethylbenzene	95-63-6	6.24E-05	5.68E-05	6.39E-05	8.36E-05	8.64E-05	7.07E-05	6.10E-05	8.02E-05
3-Methylstyrene	100-80-1	< 4.57E-05	< 3.97E-05	< 4.20E-05	< 2.84E-05	< 2.90E-05	< 2.70E-05	< 4.25E-05	< 2.81E-05
4-Methylstyrene	622-97-9	< 5.16E-05	< 4.49E-05	< 4.75E-05	< 3.21E-05	< 3.28E-05	< 3.05E-05	< 4.80E-05	< 3.18E-05
4-Chlorostyrene	1073-67-2	1.31E-04	1.14E-04	1.55E-04	1.15E-04	1.07E-04	1.02E-04	1.33E-04	1.08E-04
1-Dodecene	112-41-4	< 3.27E-04	< 2.84E-04	< 2.96E-04	< 2.05E-04	< 2.01E-04	< 1.90E-04	< 3.03E-04	< 1.99E-04
Phthalimide	85-41-6	< 1.19E-04	< 9.90E-05	< 1.11E-04	< 7.24E-05	< 6.94E-05	< 6.70E-05	< 1.10E-04	< 6.96E-05
Diphenylamine	122-39-4	2.24E-04	2.80E-04	5.56E-04	4.90E-05	7.44E-05	7.57E-05	3.53E-04	6.64E-05
Total Detected		8.57E-03	9.53E-03	1.12E-02	2.30E-03	2.69E-03	3.61E-03	9.76E-03	2.87E-03
Total with non-detects		< 1.72E-02	< 1.68E-02	< 1.87E-02	< 7.61E-03	< 8.08E-03	< 8.70E-03	< 1.76E-02	< 8.13E-03

TRC

TABLE F.4-2
BELT GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Cyc-In	Run 2 Cyc-In	Run 3 Cyc-In	Run 1 ESP-Out	Run 2 ESP-Out	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average ESP-Out w/ non-detects
Speciated Semivolatiles (lb/lb rubber)									
Pyridine	110-86-1	< 1.46E-06	< 1.35E-06	< 1.13E-06	< 9.07E-07	< 9.90E-07	< 7.27E-07	< 1.31E-06	< 8.75E-07
Phenol	108-95-2	7.25E-06	8.01E-06	1.14E-05	7.05E-06	8.82E-06	7.98E-06	8.88E-06	7.95E-06
bis(2-Chloroethyl)ether	111-44-4	< 1.19E-06	< 1.10E-06	< 9.22E-07	< 7.39E-07	< 8.06E-07	< 5.92E-07	< 1.07E-06	< 7.12E-07
2-Chlorophenol	95-57-8	< 7.76E-07	< 7.20E-07	< 6.02E-07	< 4.83E-07	< 5.26E-07	< 3.87E-07	< 6.99E-07	< 4.65E-07
1,3-Dichlorobenzene	541-73-1	< 7.23E-07	< 6.71E-07	< 5.61E-07	< 4.50E-07	< 4.91E-07	< 3.61E-07	< 6.52E-07	< 4.34E-07
1,4-Dichlorobenzene	106-46-7	< 6.96E-07	< 6.45E-07	< 5.40E-07	< 4.33E-07	< 4.72E-07	< 3.47E-07	< 6.27E-07	< 4.17E-07
1,2-Dichlorobenzene	95-50-1	< 7.35E-07	< 6.83E-07	< 5.71E-07	< 4.58E-07	< 4.99E-07	< 3.67E-07	< 6.63E-07	< 4.41E-07
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.19E-06	< 1.11E-06	< 9.27E-07	< 7.43E-07	< 8.10E-07	< 5.95E-07	< 1.08E-06	< 7.16E-07
Benzyl alcohol	100-51-6	< 1.31E-06	< 1.22E-06	< 1.02E-06	< 8.15E-07	< 8.89E-07	< 6.53E-07	< 1.18E-06	< 7.85E-07
2-Methylphenol	95-48-7	< 1.08E-06	< 1.00E-06	< 8.40E-07	< 6.73E-07	< 7.33E-07	< 5.39E-07	< 9.75E-07	< 6.49E-07
3/4-Methylphenol	108-39-4/106-44-5	< 9.36E-07	< 8.68E-07	7.61E-07	< 5.82E-07	< 6.35E-07	< 4.67E-07	< 8.55E-07	< 5.61E-07
N-Nitroso-di-n-propylamine	621-64-7	< 1.42E-06	< 1.31E-06	< 1.10E-06	< 8.81E-07	< 9.60E-07	< 7.05E-07	< 1.28E-06	< 8.49E-07
Hexachloroethane	67-72-1	< 1.30E-06	< 1.20E-06	< 1.01E-06	< 8.07E-07	< 8.79E-07	< 6.46E-07	< 1.17E-06	< 7.77E-07
Nitrobenzene	98-95-3	< 7.98E-07	< 7.40E-07	< 6.08E-07	< 5.00E-07	< 5.21E-07	< 3.92E-07	< 7.15E-07	< 4.71E-07
Isophorone	78-59-1	< 4.76E-07	< 4.41E-07	< 3.63E-07	< 2.99E-07	< 3.11E-07	< 2.33E-07	< 4.26E-07	< 2.81E-07
2-Nitrophenol	88-75-5	< 1.14E-06	< 1.06E-06	< 8.69E-07	< 7.15E-07	< 7.45E-07	< 5.59E-07	< 1.02E-06	< 6.73E-07
2,4-Dimethylphenol	105-67-9	< 9.32E-07	< 8.63E-07	< 7.10E-07	< 5.84E-07	< 6.09E-07	< 4.57E-07	< 8.35E-07	< 5.50E-07
bis(2-Chloroethoxy)methane	111-91-1	< 8.98E-07	< 8.31E-07	< 6.84E-07	< 5.63E-07	< 5.87E-07	< 4.40E-07	< 8.04E-07	< 5.30E-07
Benzoic acid	65-85-0	< 1.47E-06	< 1.36E-06	< 1.12E-06	7.58E-07	2.04E-06	< 7.20E-07	< 1.31E-06	< 1.17E-06
2,4-Dichlorophenol	120-83-2	< 8.66E-07	< 8.02E-07	< 6.60E-07	< 5.43E-07	< 5.66E-07	< 4.25E-07	< 7.76E-07	< 5.11E-07
1,2,4-Trichlorobenzene	120-82-1	< 7.57E-07	< 7.00E-07	< 5.77E-07	< 4.74E-07	< 4.94E-07	< 3.71E-07	< 6.78E-07	< 4.46E-07
Naphthalene	91-20-3	3.88E-06	3.88E-06	4.30E-06	3.21E-06	4.11E-06	3.17E-06	4.02E-06	3.50E-06
4-Chloroaniline	106-47-8	< 6.88E-07	< 6.38E-07	< 5.24E-07	< 4.31E-07	< 4.50E-07	< 3.38E-07	< 6.17E-07	< 4.06E-07
Hexachlorobutadiene	87-68-3	< 1.06E-06	< 9.83E-07	< 8.08E-07	< 6.66E-07	< 6.93E-07	< 5.21E-07	< 9.51E-07	< 6.27E-07
4-Chloro-3-methylphenol	59-50-7	< 1.02E-06	< 9.46E-07	< 7.78E-07	< 6.40E-07	< 6.68E-07	< 5.00E-07	< 9.15E-07	< 6.03E-07
2-Methylnaphthalene	91-57-6	1.39E-05	1.43E-05	1.65E-05	9.34E-06	1.15E-05	9.87E-06	1.49E-05	1.02E-05
Hexachlorocyclopentadiene	77-47-4	< 9.82E-07	< 8.75E-07	< 7.79E-07	< 6.00E-07	< 6.14E-07	< 4.69E-07	< 8.79E-07	< 5.61E-07
2,4,6-Trichlorophenol	88-06-2	< 1.19E-06	< 1.06E-06	< 9.47E-07	< 7.29E-07	< 7.46E-07	< 5.69E-07	< 1.07E-06	< 6.82E-07
2,4,5-Trichlorophenol	95-95-4	< 1.12E-06	< 9.98E-07	< 8.89E-07	< 6.85E-07	< 7.00E-07	< 5.34E-07	< 1.00E-06	< 6.40E-07
2-Chloronaphthalene	91-58-7	< 4.25E-07	< 3.79E-07	< 3.38E-07	< 2.60E-07	< 2.66E-07	< 2.03E-07	< 3.81E-07	< 2.43E-07
2-Nitroaniline	88-74-4	< 1.58E-06	< 1.41E-06	< 1.25E-06	< 9.66E-07	< 9.88E-07	< 7.55E-07	< 1.42E-06	< 9.03E-07
Dimethylphthalate	131-11-3	< 3.78E-07	< 3.36E-07	< 3.00E-07	< 2.31E-07	< 2.36E-07	< 1.80E-07	< 3.38E-07	< 2.15E-07
2,6-Dinitrotoluene	606-20-2	< 1.55E-06	< 1.38E-06	< 1.23E-06	< 9.49E-07	< 9.71E-07	< 7.41E-07	< 1.39E-06	< 8.87E-07
2,4-Dinitrotoluene	121-14-2	< 1.10E-06	< 9.78E-07	< 8.71E-07	< 6.71E-07	< 6.86E-07	< 5.24E-07	< 9.82E-07	< 6.27E-07
Acenaphthylene	208-96-8	< 2.57E-07	< 2.29E-07	< 2.04E-07	< 1.57E-07	< 1.61E-07	< 1.23E-07	< 2.30E-07	< 1.47E-07
3-Nitroaniline	99-09-2	< 1.73E-06	< 1.54E-06	< 1.37E-06	< 1.06E-06	< 1.08E-06	< 8.26E-07	< 1.55E-06	< 9.89E-07
Acenaphthene	83-32-9	1.01E-07	< 4.27E-07	< 3.80E-07	< 2.93E-07	< 2.99E-07	< 2.29E-07	< 3.03E-07	< 2.74E-07
2,4-Dinitrophenol	105-67-9	< 3.20E-06	< 2.85E-06	< 2.54E-06	< 1.95E-06	< 2.00E-06	< 1.53E-06	< 2.86E-06	< 1.83E-06
4-Nitrophenol	100-02-7	< 2.69E-06	< 2.40E-06	< 2.13E-06	< 1.64E-06	< 1.68E-06	< 1.28E-06	< 2.41E-06	< 1.53E-06
Dibenzofuran	132-64-9	< 3.18E-07	< 2.83E-07	< 2.52E-07	< 1.94E-07	< 1.98E-07	< 1.51E-07	< 2.84E-07	< 1.81E-07
2,3,4,6-Tetrachlorophenol		< 1.33E-06	< 1.19E-06	< 1.06E-06	< 8.14E-07	< 8.32E-07	< 6.36E-07	< 1.19E-06	< 7.60E-07
Diethylphthalate	84-66-2	6.18E-07	3.89E-07	1.43E-07	2.00E-07	< 2.04E-07	1.84E-07	3.83E-07	< 1.96E-07
4-Chlorophenyl-phenylether	70005-72-3	< 7.43E-07	< 6.62E-07	< 5.89E-07	< 4.54E-07	< 4.64E-07	< 3.55E-07	< 6.65E-07	< 4.24E-07
Fluorene	86-73-7	< 4.03E-07	< 3.60E-07	< 3.20E-07	< 2.46E-07	< 2.52E-07	< 1.92E-07	< 3.61E-07	< 2.30E-07
4-Nitroaniline	100-01-6	< 1.86E-06	< 1.65E-06	< 1.47E-06	< 1.13E-06	< 1.16E-06	< 8.86E-07	< 1.66E-06	< 1.06E-06
4,6-Dinitro-2-methylphenol	534-52-1	< 2.69E-06	< 2.25E-06	< 1.92E-06	< 1.42E-06	< 1.47E-06	< 1.11E-06	< 2.29E-06	< 1.34E-06
4-Bromophenyl-phenylether	101-55-3	< 1.67E-06	< 1.40E-06	< 1.19E-06	< 8.86E-07	< 9.17E-07	< 6.94E-07	< 1.42E-06	< 8.32E-07
Hexachlorobenzene	118-74-1	< 1.30E-06	< 1.09E-06	< 9.23E-07	< 6.87E-07	< 7.11E-07	< 5.38E-07	< 1.10E-06	< 6.45E-07
Pentachlorophenol	87-86-5	< 2.27E-06	< 1.90E-06	< 1.62E-06	< 1.20E-06	< 1.25E-06	< 9.42E-07	< 1.93E-06	< 1.13E-06
Phenanthrene	85-01-8	< 3.88E-07	< 3.25E-07	< 2.76E-07	< 2.05E-07	< 2.12E-07	< 1.61E-07	< 3.30E-07	< 1.93E-07
Anthracene	120-12-7	< 4.06E-07	< 3.40E-07	< 2.89E-07	< 2.14E-07	< 2.22E-07	< 1.68E-07	< 3.45E-07	< 2.02E-07
Carbazole		< 4.94E-07	< 4.13E-07	2.52E-08	< 2.61E-07	< 2.70E-07	< 2.05E-07	< 3.11E-07	< 2.45E-07
Di-n-butylphthalate	84-74-2	1.11E-06	8.57E-06	2.47E-07	0.00E+00	0.00E+00	9.19E-06	3.31E-06	3.06E-06
Fluoranthene	206-44-0	< 3.85E-07	< 3.22E-07	< 2.74E-07	< 2.03E-07	< 2.11E-07	< 1.59E-07	< 3.27E-07	< 1.91E-07
Pyrene	129-00-0	3.67E-06	2.99E-06	< 1.87E-07	1.83E-07	2.77E-07	2.41E-07	< 2.28E-06	2.34E-07
Butylbenzylphthalate	85-68-7	< 7.04E-07	< 5.17E-07	< 3.77E-07	< 4.01E-07	< 4.69E-07	< 3.57E-07	< 5.32E-07	< 4.09E-07
3,3'-Dichlorobenzidine	91-94-1	< 1.84E-06	< 1.35E-06	< 9.86E-07	< 1.05E-06	< 1.23E-06	< 9.34E-07	< 1.39E-06	< 1.07E-06
bis(2-Ethylhexyl)phthalate	117-81-7	6.96E-05	7.18E-05	1.75E-05	2.97E-06	1.83E-06	8.45E-07	5.30E-05	1.88E-06
Benzo(a)anthracene	56-55-3	< 4.90E-07	< 3.60E-07	< 2.62E-07	< 2.80E-07	< 3.27E-07	< 2.49E-07	< 3.71E-07	< 2.85E-07

TRC

TABLE F.4-2
BELT GRINDING SPECIATED SEMIVOLATILES SUMMARY

Compounds	CAS Numbers	Run 1 Cyc-In	Run 2 Cyc-In	Run 3 Cyc-In	Run 1 ESP-Out	Run 2 ESP-Out	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average ESP-Out w/ non-detects
Speciated Semivolatiles (lb/lb rubber)									
Chrysene	218-01-9	< 5.72E-07	< 4.20E-07	< 3.06E-07	< 3.26E-07	< 3.81E-07	< 2.90E-07	< 4.33E-07	< 3.32E-07
Di-n-octylphthalate	117-84-0	< 2.72E-07	< 1.93E-07	< 1.50E-07	9.81E-08	< 2.77E-07	< 2.15E-07	< 2.05E-07	< 1.97E-07
Benzo(b)fluoranthene	205-99-2	< 4.76E-07	< 3.37E-07	< 2.63E-07	< 3.85E-07	< 4.84E-07	< 3.76E-07	< 3.59E-07	< 4.15E-07
Benzo(k)fluoranthene	207-08-9	< 4.96E-07	< 3.52E-07	< 2.75E-07	< 4.01E-07	< 5.05E-07	< 3.92E-07	< 3.74E-07	< 4.33E-07
Benzo(a)pyrene	50-32-8	< 5.10E-07	< 3.61E-07	< 2.82E-07	< 4.12E-07	< 5.18E-07	< 4.03E-07	< 3.84E-07	< 4.45E-07
Indeno(1,2,3-cd)pyrene	193-39-5	< 5.99E-07	< 4.24E-07	< 3.31E-07	< 4.84E-07	< 6.09E-07	< 4.73E-07	< 4.51E-07	< 5.22E-07
Dibenz(a,h)anthracene	53-90-3	< 7.85E-07	< 5.57E-07	< 4.35E-07	< 6.37E-07	< 7.99E-07	< 6.21E-07	< 5.92E-07	< 6.86E-07
Benzo(g,h,i)perylene	191-24-2	< 7.14E-07	< 5.07E-07	< 3.95E-07	< 5.79E-07	< 7.28E-07	< 5.65E-07	< 5.39E-07	< 6.24E-07
n-Nitrosodimethylamine	62-75-9	< 2.63E-06	< 2.44E-06	< 2.04E-06	< 1.64E-06	< 1.78E-06	< 1.31E-06	< 2.37E-06	< 1.58E-06
Cumene	98-82-8	< 4.29E-07	< 3.98E-07	< 3.33E-07	< 2.67E-07	< 2.92E-07	< 2.14E-07	< 3.87E-07	< 2.58E-07
Aniline	62-53-3	< 7.95E-07	< 7.39E-07	< 6.18E-07	< 4.95E-07	< 5.40E-07	3.46E-06	< 7.17E-07	< 1.50E-06
Benzyl Chloride	100-44-7	< 5.26E-07	< 4.88E-07	< 4.08E-07	< 3.27E-07	< 3.56E-07	< 2.62E-07	< 4.74E-07	< 3.15E-07
Acetophenone	98-86-2	2.46E-06	2.35E-06	2.03E-06	< 4.94E-07	2.62E-06	1.77E-06	2.28E-06	< 1.63E-06
n-Nitrosomorpholine	59-89-2	< 1.56E-06	< 1.45E-06	< 1.21E-06	< 9.73E-07	< 1.06E-06	< 7.79E-07	< 1.41E-06	< 9.37E-07
o-Toluidine	95-53-4	< 7.35E-07	< 6.82E-07	< 5.70E-07	< 4.58E-07	< 4.99E-07	< 3.66E-07	< 6.63E-07	< 4.41E-07
N,N-Dimethylaniline	121-69-7	< 5.85E-07	< 5.42E-07	< 4.46E-07	< 3.67E-07	< 3.82E-07	< 2.87E-07	< 5.24E-07	< 3.45E-07
1,2-Dibromo-3-chloropropane	96-12-8	< 1.68E-06	< 1.56E-06	< 1.31E-06	< 1.05E-06	< 1.14E-06	< 8.40E-07	< 1.52E-06	< 1.01E-06
o-Anisidine	90-04-0	< 1.17E-06	< 1.09E-06	< 8.93E-07	< 7.36E-07	< 7.67E-07	< 5.75E-07	< 1.05E-06	< 6.93E-07
1,4-Phenylenediamine	106-50-3	< 1.64E-06	< 1.52E-06	< 1.25E-06	< 1.03E-06	< 1.08E-06	< 8.07E-07	< 1.47E-06	< 9.71E-07
N,N-Diethylaniline	91-66-7	< 5.03E-07	< 4.67E-07	< 3.90E-07	< 3.13E-07	< 3.42E-07	< 2.51E-07	< 4.53E-07	< 3.02E-07
a,a,a-Trichlorotoluene	98-07-7	< 5.38E-07	< 4.97E-07	< 4.10E-07	< 3.37E-07	< 3.52E-07	< 2.63E-07	< 4.82E-07	< 3.17E-07
Hydroquinone	123-31-9	< 1.47E-06	< 1.36E-06	< 1.12E-06	< 9.20E-07	< 9.59E-07	< 7.20E-07	< 1.31E-06	< 8.66E-07
2-Chloroacetophenone	1341-24-8	< 4.28E-07	< 3.96E-07	< 3.26E-07	< 2.68E-07	< 2.80E-07	< 2.10E-07	< 3.83E-07	< 2.53E-07
Biphenyl	92-52-4	< 4.25E-07	< 3.79E-07	< 3.38E-07	< 2.60E-07	< 2.66E-07	< 2.03E-07	< 3.81E-07	< 2.43E-07
Trifluralin	1582-09-8	< 2.17E-06	< 1.93E-06	< 1.72E-06	< 1.33E-06	< 1.35E-06	< 1.03E-06	< 1.94E-06	< 1.24E-06
4-Aminobiphenyl	92-67-1	< 6.12E-07	< 5.12E-07	< 4.35E-07	< 3.23E-07	< 3.35E-07	< 2.53E-07	< 5.20E-07	< 3.04E-07
Pentachloronitrobenzene	82-68-8	< 3.01E-06	< 2.52E-06	< 2.14E-06	< 1.59E-06	< 1.65E-06	< 1.24E-06	< 2.55E-06	< 1.49E-06
4-Nitrobiphenyl	92-93-3	1.87E-07	< 1.03E-06	< 8.77E-07	< 6.51E-07	< 6.75E-07	< 5.11E-07	< 6.98E-07	< 6.12E-07
Benzidine	92-87-5	< 1.30E-06	< 9.54E-07	< 6.95E-07	< 7.41E-07	< 8.65E-07	< 6.58E-07	< 9.82E-07	< 7.55E-07
4,4'-Methylenedianiline	101-77-9	< 2.05E-06	< 1.50E-06	< 1.10E-06	< 1.17E-06	< 1.36E-06	< 1.04E-06	< 1.55E-06	< 1.19E-06
Dimethylaminoazobenzene	60-11-7	< 1.49E-06	< 1.10E-06	< 7.99E-07	< 8.53E-07	< 9.96E-07	< 7.57E-07	< 1.13E-06	< 8.68E-07
3,3'-Dimethylbenzidine	119-93-7	< 9.70E-07	< 7.13E-07	< 5.19E-07	< 5.53E-07	< 6.46E-07	< 4.91E-07	< 7.34E-07	< 5.63E-07
3,3'-Dimethoxybenzidine	119-90-4	< 1.94E-06	< 1.42E-06	< 1.04E-06	< 1.11E-06	< 1.29E-06	< 9.81E-07	< 1.47E-06	< 1.13E-06
Methylene bis-chloroaniline	101-14-4	< 2.68E-06	< 1.97E-06	< 1.43E-06	< 1.53E-06	< 1.79E-06	< 1.36E-06	< 2.03E-06	< 1.56E-06
3-Furaldehyde	498-60-2	2.33E-06	< 1.76E-06	< 1.47E-06	< 1.18E-06	< 1.29E-06	< 9.45E-07	< 1.85E-06	< 1.14E-06
2-Furaldehyde	98-01-1	1.22E-05	2.61E-05	7.18E-05	5.77E-06	5.46E-06	3.70E-06	3.67E-05	4.98E-06
Cyclohexylamine	108-91-8	< 2.51E-06	< 2.33E-06	< 1.95E-06	< 1.56E-06	< 1.70E-06	< 1.25E-06	< 2.26E-06	< 1.50E-06
N-Nitrosodiethylamine	55-18-5	< 2.25E-06	< 2.09E-06	< 1.75E-06	< 1.40E-06	< 1.53E-06	< 1.12E-06	< 2.03E-06	< 1.35E-06
Cyclohexanone	108-94-1	< 1.26E-06	< 1.17E-06	1.47E-06	< 7.84E-07	< 8.55E-07	< 6.28E-07	< 1.30E-06	< 7.56E-07
1,3-Cyclooctadiene	1700-10-3	< 9.45E-07	< 8.77E-07	< 7.33E-07	< 5.89E-07	< 6.41E-07	< 4.71E-07	< 8.52E-07	< 5.67E-07
1,5-Cyclooctadiene	111-78-4	< 2.05E-06	< 1.90E-06	< 1.59E-06	< 1.28E-06	< 1.39E-06	< 1.02E-06	< 1.85E-06	< 1.23E-06
Camphene	79-92-5	< 1.11E-06	< 1.03E-06	< 8.62E-07	< 6.91E-07	< 7.53E-07	< 5.54E-07	< 1.00E-06	< 6.66E-07
Benzaldehyde	100-52-7	< 1.29E-06	1.05E-06	< 1.00E-06	1.63E-07	< 8.75E-07	3.84E-07	< 1.11E-06	< 4.74E-07
Benzonitrile	100-47-0	< 5.06E-07	< 4.69E-07	< 3.92E-07	< 3.14E-07	5.81E-07	< 2.52E-07	< 4.55E-07	< 3.82E-07
Isooctanol	26952-21-6	< 1.18E-05	< 1.09E-05	< 9.13E-06	< 7.32E-06	< 7.98E-06	< 5.86E-06	< 1.06E-05	< 7.06E-06
1,2,4-Trimethylbenzene	95-63-6	8.98E-07	8.72E-07	7.75E-07	1.20E-06	1.33E-06	8.58E-07	8.48E-07	1.13E-06
3-Methylstyrene	100-80-1	< 6.57E-07	< 6.10E-07	< 5.10E-07	< 4.09E-07	< 4.46E-07	< 3.27E-07	< 5.92E-07	< 3.94E-07
4-Methylstyrene	622-97-9	< 7.43E-07	< 6.89E-07	< 5.77E-07	< 4.62E-07	< 5.04E-07	< 3.70E-07	< 6.70E-07	< 4.45E-07
4-Chlorostyrene	1073-67-2	1.89E-06	1.75E-06	1.88E-06	1.65E-06	1.65E-06	1.24E-06	1.84E-06	1.51E-06
1-Dodecene	112-41-4	< 4.71E-06	< 4.36E-06	< 3.59E-06	< 2.96E-06	< 3.08E-06	< 2.31E-06	< 4.22E-06	< 2.78E-06
Phthalimide	85-41-6	< 1.71E-06	< 1.52E-06	< 1.35E-06	< 1.04E-06	< 1.07E-06	< 8.13E-07	< 1.53E-06	< 9.73E-07
Diphenylamine	122-39-4	3.22E-06	4.29E-06	6.74E-06	7.05E-07	1.14E-06	9.19E-07	4.75E-06	9.22E-07
Total Detected		1.23E-04	1.46E-04	1.36E-04	3.31E-05	4.14E-05	4.38E-05	1.35E-04	3.94E-05
Total with non-detects		< 2.47E-04	< 2.57E-04	< 2.27E-04	< 1.10E-04	< 1.24E-04	< 1.06E-04	< 2.44E-04	< 1.13E-04

TRC

TABLE F.4-3
BELT GRINDING SPECIATED VOLATILES SUMMARY

			Run 1		Run 2		Run 3		Average	
	Compounds	CAS Numbers	Cyc-In	ESP-Out	Cyc-In	ESP-Out	Cyc-In	ESP-Out	Cyc-In w/ non-detects	Cyc-In w/ non-detects
	Speciated Vol. (µg/m³)									
1 2	1-Chloro-4-(1-chlorosthenyl) cyclohexene		80.00	200.00		100.00	100.00	90.00	60.00	130.00
1 2	1-Chloro-5-(1-chlorosthenyl) cyclohexene			100.00		80.00	70.00	50.00	23.33	76.67
	1-Heptene	592-76-7	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
	1-Hexene	592-41-6	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
	1-Octene	111-60-0	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
	1-Pentene	109-67-1	< 5.83	30.34	< 5.83	33.84	< 2.92	33.26	< 4.86	32.48
1	1,1-Dichloroethene	00075-35-4	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	1,1-Dichloroethane	00075-34-3	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	1,1,1-Trichloroethane	00071-55-6	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	1,1,2-Trichloroethane	00079-00-5	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 80.00	< 40.00	< 80.00	< 40.00	< 40.00	< 40.00	< 66.67	< 40.00
1	1,2-Dibromoethane	00106-93-4	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	1,2-Dichlorobenzene	00095-50-1	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	1,2-Dichloroethane	00107-06-2	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	1,2-Dichloropropane	00078-87-5	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
	1,2,4-Trimethylbenzene	95-63-6	39.44	32.78	15.00	33.33	35.00	32.78	29.81	32.96
	1,3-Butadiene	106-99-0	140.63	38.25	174.38	38.81	50.63	32.63	121.88	36.56
1	1,3-Dichlorobenzene	00541-73-1	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
	1,3,5-Trimethylbenzene	108-67-8	< 27.78	20.55	< 27.78	26.11	< 13.89	23.33	< 23.15	23.33
1	1,4-Dichlorobenzene	00106-46-7	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	42.43	14.52	20.10	33.50	7.82	12.28	23.45	20.10
1	1,4-Dioxane	00123-91-1	< 160.00	< 80.00	< 160.00	< 80.00	< 80.00	< 80.00	< 133.33	< 80.00
1	2-Butanone	00078-93-3	< 80.00	< 40.00	< 80.00	20.00	15.00	< 20.00	< 58.33	< 26.67
1 2	2-Chloro-1,3-Butadiene		400.00	600.00	400.00	600.00	500.00	600.00	433.33	600.00
1 2	2-Chlorothiophene			50.00		50.00	40.00	40.00	13.33	46.67
1 2	2-Heptanone			50.00					0.00	16.67
1	2-Hexanone	00591-78-6	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
	2-Methyl-1-butene	563-46-2	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
	2-Methyl-2-butene	513-35-9	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
	2-Methyl-2-pentene	625-27-4	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
	2-Methylheptane	592-27-8	< 5.94	< 1.19	< 5.94	< 1.19	< 2.97	< 1.19	< 4.95	< 1.19
	2-Methylhexane	591-76-4	< 5.95	1.19	< 5.95	< 1.19	< 2.98	< 1.19	< 4.96	< 1.19
	2-Methylpentane	107-83-5	101.57	131.44	149.36	173.26	77.67	185.21	109.53	163.30
	2,2-Dimethylbutane	75-83-2	26.89	< 1.19	38.24	53.17	41.82	50.19	35.65	< 34.85
	2,2-Dimethylpropane	463-82-1	< 6.00	< 1.20	< 6.00	< 1.20	< 3.00	< 1.20	< 5.00	< 1.20
	2,3-Dimethylpentane	565-59-3	< 5.95	< 1.19	< 5.95	< 1.19	< 2.98	< 1.19	< 4.96	< 1.19
	2,3,4-Trimethylpentane	565-75-3	< 5.94	< 1.19	< 5.94	< 1.19	< 2.97	< 1.19	< 4.95	< 1.19
	2,4-Dimethylhexane	589-43-5	< 5.94	< 1.19	< 5.94	< 1.19	< 2.97	< 1.19	< 4.95	< 1.19
1 2	3-Heptanone					80.00	40.00		13.33	20.00
	3-Methylhexane	589-34-4	< 5.95	< 1.19	< 5.95	< 1.19	< 2.98	< 1.19	< 4.96	< 1.19
	3-Methylpentane	96-14-0	836.43	1075.42	657.20	1015.67	896.18	955.92	796.60	1015.67
	4-Methyl-1-pentene	691-37-2	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
1	4-Methyl-2-pentanone	00108-10-1	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1 2	Acetaldehyde		80.00	90.00		100.00	90.00	100.00	56.67	96.67
1	Acetone	00067-64-1	110.00	78.00	200.00	490.00	110.00	210.00	140.00	259.33
1	Acetonitrile	01722-09-4	< 80.00	< 40.00	< 80.00	< 40.00	< 40.00	< 40.00	< 66.67	< 40.00
1 2	Acetophenone		90.00						30.00	0.00
	Acetylene	74-86-2	< 5.42	< 1.08	< 5.42	< 1.08	< 2.71	< 1.08	< 4.51	< 1.08
1	Acrolein	00107-02-8	< 80.00	23.00	< 80.00	38.00	19.00	16.00	< 59.67	25.67
1	Acrylonitrile	00107-13-1	< 80.00	< 40.00	< 80.00	< 40.00	< 40.00	< 40.00	< 66.67	< 40.00
1	Allyl Chloride	00107-05-1	< 80.00	< 40.00	< 80.00	< 40.00	< 40.00	< 40.00	< 66.67	< 40.00
1 2	Alpha-Methylstyrene			50.00					0.00	16.67
	a-Pinene	7785-70-8	22.67	79.34	26.64	187.01	36.84	46.47	28.71	104.27
	Benzene	71-43-2	< 5.42	17.33	< 5.42	135.39	< 2.71	8.66	< 4.51	53.79
1	Benzyl Chloride	00100-44-7	< 80.00	< 40.00	< 80.00	< 40.00	< 40.00	< 40.00	< 66.67	< 40.00
	b-Pinene	18172-67-3	< 28.34	19.83	< 28.34	29.47	23.23	31.74	< 26.64	27.01
1	Bromodichloromethane	00075-27-4	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	Bromoform	00075-25-2	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	Bromomethane	00074-83-9	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1 2	Butanal			70.00		100.00	70.00	70.00	23.33	80.00
1 2	Butyl Acetate					200.00			0.00	66.67
1 2	C9H20 Alkane								0.00	0.00
1	Carbon Disulfide	00075-15-0	1600.00	1700.00	1500.00	1800.00	1700.00	1800.00	1600.00	1766.67
1	Carbon Tetrachloride	00056-23-5	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	Chlorobenzene	00108-90-7	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00

1 - TO14 Compound 2 - Tentatively Identified Compound

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TABLE F.4-3
BELT GRINDING SPECIATED VOLATILES SUMMARY

		Compounds	CAS Numbers	Run 1 Cyc-In	Run 1 ESP-Out	Run 2 Cyc-In	Run 2 ESP-Out	Run 3 Cyc-In	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average Cyc-In w/ non-detects
Speciated Vol. (µg/m³)											
1		Chloroethane	00075-00-3	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		Chloroform	00067-66-3	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		Chloromethane	00074-87-3	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		cis-1,2-Dichloroethene	00156-59-2	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		cis-1,3-Dichloropropene	10061-01-5	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
		cis-2-Butene	590-18-1	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
		cis-2-Hexene	7688-21-3	< 5.83	< 1.17	< 5.83	< 46.09	< 2.92	< 1.17	< 4.86	< 16.14
		cis-2-Pentene	627-20-3	99.19	36.76	175.04	122.53	64.18	43.76	112.81	67.68
		Cumene	98-82-8	< 5.56	< 1.11	< 5.56	< 1.11	< 2.78	< 1.11	< 4.63	< 1.11
		Cyclohexane	110-82-7	105.03	110.86	145.87	1.17	151.70	192.55	134.20	101.53
		Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	40.31	42.91	50.07	48.77	53.97	59.82	48.12	50.50
		Cyclopentene	142-29-0	< 5.67	< 1.13	< 5.67	11.33	< 2.83	11.90	< 4.72	< 8.12
1		Dibromochloromethane	00124-48-1	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		Dichlorodifluoromethane	00075-71-8	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
		d-Limonene	5989-27-5	37.97	68.00	21.53	73.67	14.73	< 5.67	24.75	< 49.11
1		Epichlorohydrin	00106-89-8	< 80.00	< 40.00	< 80.00	< 40.00	< 40.00	< 40.00	< 66.67	< 40.00
		Ethane	74-84-0	< 6.25	< 1.25	< 6.25	< 1.25	< 3.13	< 1.25	< 5.21	< 1.25
		Ethylacetylene	107-00-6	< 5.63	< 1.13	< 5.63	< 1.13	< 2.81	< 1.13	< 4.69	< 1.13
		Ethylbenzene	100-41-4	< 5.52	17.67	< 5.52	27.05	< 2.76	18.22	< 4.60	20.98
		Ethylene	74-85-1	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
1		Hexachlorobutadiene	00087-68-3	< 80.00	< 40.00	< 80.00	< 40.00	< 40.00	< 40.00	< 66.67	< 40.00
		Isobutane	75-28-5	27.20	38.68	38.68	55.61	35.06	66.49	33.65	53.59
		Isobutylene + 1-Butene	115-11-7/106-98-9	< 5.83	15.17	< 5.83	15.17	< 2.92	16.34	< 4.86	15.56
		Isooctane	540-84-1	< 5.94	< 1.19	< 5.94	< 1.19	< 2.97	< 1.19	< 4.95	< 1.19
		Isopentane	78-78-4	< 6.00	132.05	270.11	660.27	138.06	384.16	< 138.06	392.16
		Isoprene	78-79-5	< 5.67	< 1.13	< 5.67	< 1.13	< 2.83	< 1.13	< 4.72	< 1.13
1		Methyl tert-Butyl Ether	01634-04-4	< 80.00	< 40.00	< 80.00	< 40.00	< 40.00	< 40.00	< 66.67	< 40.00
		Methylacetylene	74-99-7	< 5.42	< 1.08	< 5.42	< 1.08	< 2.71	< 1.08	< 4.51	< 1.08
		Methylcyclohexane	108-87-2	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
		Methylcyclopentane	96-37-7	52.51	< 75.85	49.60	12.25	32.09	12.25	44.73	< 33.45
1		Methylene Chloride	00075-09-2	160.00	37.00	480.00	290.00	110.00	67.00	250.00	131.33
		m-Ethyltoluene	620-14-4	< 5.56	20.55	< 5.56	20.00	< 2.78	19.44	< 4.63	20.00
		m-Xylene + p-Xylene	108-38-3/106-42-3	49.13	47.47	51.34	77.28	31.47	43.06	43.98	55.94
		n-Butane	106-97-8	< 6.04	48.96	< 6.04	392.89	< 3.02	40.50	< 5.04	160.78
		n-Decane	124-18-5	106.54	94.70	76.94	88.78	82.86	88.78	88.78	90.75
		n-Heptane	142-82-5	< 5.95	< 1.19	< 5.95	< 1.19	< 2.98	< 1.19	< 4.96	< 1.19
		n-Hexane	110-54-3	291.44	269.33	237.67	149.84	112.20	36.33	213.77	151.83
		n-Nonane	111-84-2	43.27	46.83	34.38	39.72	23.71	30.83	33.79	39.12
		n-Octane	111-65-9	< 5.94	< 1.19	< 5.94	38.01	< 2.97	< 1.19	< 4.95	< 13.46
		n-Pentane	109-66-0	< 6.00	< 1.20	< 6.00	< 1.20	< 3.00	< 1.20	< 5.00	< 1.20
		n-Propylbenzene	103-65-1	< 5.56	6.67	< 5.56	< 1.11	< 2.78	< 1.11	< 4.63	< 2.96
1	2	n-Undecane		100.00	100.00	100.00	100.00	100.00	100.00	100.00	< 100.00
		o-Ethyltoluene	611-14-3	43.89	105.55	21.67	88.88	35.55	94.44	33.70	96.29
		o-Xylene	95-47-6	40.85	38.64	24.29	41.95	18.77	22.08	27.97	34.23
		p-Cymene	99-87-6	55.83	< 5.58	48.02	< 5.58	29.59	41.87	44.48	< 17.68
		p-Ethyltoluene	622-96-8	< 5.56	16.67	< 5.56	16.11	< 2.78	12.78	< 4.63	15.18
		Propane	74-98-6	24.46	67.26	91.71	226.23	20.79	34.85	45.65	109.45
		Propylene	115-07-1	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
1		Propylene Oxide	00075-56-9	< 80.00	150.00	180.00	290.00	280.00	120.00	< 180.00	186.67
		Styrene	100-42-5	< 5.42	< 1.08	< 5.42	< 1.08	< 2.71	< 1.08	< 4.51	< 1.08
1		Tetrachloroethene	00127-18-4	880.00	490.00	750.00	680.00	540.00	780.00	723.33	650.00
		Toluene	108-88-3	6570.49	6022.95	7118.03	7665.57	7665.57	7665.57	7118.03	7118.03
1		trans-1,2-Dichloroethene	00156-60-5	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		trans-1,3-Dichloropropene	10061-02-6	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
		trans-2-Butene	624-64-6	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
		trans-2-Hexene	4050-45-7	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
		trans-2-Pentene	646-04-8	< 5.83	< 1.17	< 5.83	< 1.17	< 2.92	< 1.17	< 4.86	< 1.17
1		Trichloroethene	00079-01-6	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		Trichlorofluoromethane	00075-69-4	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		Trichlortrifluoroethane	00076-13-1	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1	2	Unknown			50.00		100.00			0.00	50.00
1		Vinyl Acetate	00108-05-4	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
1		Vinyl Chloride	00075-01-4	< 40.00	< 20.00	< 40.00	< 20.00	< 20.00	< 20.00	< 33.33	< 20.00
		Total Detected		12298.17	12546.68	13145.86	16730.67	13463.49	14291.48	12969.17	14522.94
		Total with non-detects		< 14923.65	< 13747.73	< 15685.35	< 17859.58	< 14639.07	< 15496.73	< 15082.69	< 15701.35

1 - TO14 Compound 2 - Tentatively Identified Compound

TRC

TABLE F.4-3
BELT GRINDING SPECIATED VOLATILES SUMMARY

			Run 1		Run 2		Run 3		Average	
	Compounds	CAS Numbers	Cyc-In	ESP-Out	Cyc-In	ESP-Out	Cyc-In	ESP-Out	Cyc-In w/ non-detects	Cyc-In w/ non-detects
	Speciated Vol. (lb/hr)									
1 2	1-Chloro-4-(1-chloroethenyl) cyclohexene		1.09E-03	3.30E-03	0.00E+00	1.59E-03	1.37E-03	1.45E-03	8.21E-04	2.12E-03
1 2	1-Chloro-5-(1-chloroethenyl) cyclohexene		0.00E+00	1.65E-03	0.00E+00	1.27E-03	9.58E-04	8.06E-04	3.19E-04	1.24E-03
	1-Heptene	592-76-7	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	1-Hexene	592-41-6	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	1-Octene	111-60-0	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	1-Pentene	109-67-1	< 7.98E-05	5.01E-04	< 7.88E-05	5.39E-04	< 3.99E-05	5.36E-04	< 6.62E-05	5.25E-04
1	1,1-Dichloroethene	00075-35-4	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	1,1-Dichloroethane	00075-34-3	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	1,1,1-Trichloroethane	00071-55-6	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	1,1,2-Trichloroethane	00079-00-5	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.09E-03	< 6.61E-04	< 1.08E-03	< 6.37E-04	< 5.48E-04	< 6.45E-04	< 9.08E-04	< 6.47E-04
1	1,2-Dibromoethane	00106-93-4	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	1,2-Dichlorobenzene	00095-50-1	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	1,2-Dichloroethane	00107-06-2	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	1,2-Dichloropropane	00078-87-5	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
	1,2,4-Trimethylbenzene	95-63-6	5.39E-04	5.42E-04	2.03E-04	5.30E-04	4.79E-04	5.28E-04	4.07E-04	5.33E-04
	1,3-Butadiene	106-99-0	1.92E-03	6.32E-04	2.36E-03	6.18E-04	6.93E-04	5.26E-04	1.66E-03	5.92E-04
1	1,3-Dichlorobenzene	00541-73-1	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
	1,3,5-Trimethylbenzene	108-67-8	< 3.80E-04	3.40E-04	< 3.75E-04	4.15E-04	< 1.90E-04	3.76E-04	< 3.15E-04	3.77E-04
1	1,4-Dichlorobenzene	00106-46-7	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	5.80E-04	2.40E-04	2.72E-04	5.33E-04	1.07E-04	1.98E-04	3.20E-04	3.24E-04
1	1,4-Dioxane	00123-91-1	< 2.19E-03	< 1.32E-03	< 2.16E-03	< 1.27E-03	< 1.10E-03	< 1.29E-03	< 1.82E-03	< 1.29E-03
1	2-Butanone	00078-93-3	< 1.09E-03	< 6.61E-04	< 1.08E-03	3.18E-04	2.05E-04	< 3.22E-04	< 7.93E-04	< 4.34E-04
1 2	2-Chloro-1,3-Butadiene		5.47E-03	9.91E-03	5.40E-03	9.55E-03	6.85E-03	9.67E-03	5.91E-03	9.71E-03
1 2	2-Chlorothiophene		0.00E+00	8.26E-04	0.00E+00	7.96E-04	3.48E-04	6.45E-04	1.83E-04	7.56E-04
1 2	2-Heptanone		0.00E+00	8.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1	2-Hexanone	00591-78-6	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
	2-Methyl-1-butene	563-46-2	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	2-Methyl-2-butene	513-35-9	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	2-Methyl-2-pentene	625-27-4	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	2-Methylheptane	592-27-8	< 8.12E-05	< 1.96E-05	< 8.03E-05	< 1.89E-05	< 4.07E-05	< 1.91E-05	< 6.74E-05	< 1.92E-05
	2-Methylhexane	591-76-4	< 8.14E-05	1.97E-05	< 8.05E-05	< 1.90E-05	< 4.08E-05	< 1.92E-05	< 6.76E-05	< 1.93E-05
	2-Methylpentane	107-83-5	1.39E-03	2.17E-03	2.02E-03	2.76E-03	1.06E-03	2.99E-03	1.49E-03	2.64E-03
	2,2-Dimethylbutane	75-83-2	3.68E-04	< 1.97E-05	5.17E-04	8.46E-04	5.73E-04	8.09E-04	4.86E-04	< 5.58E-04
	2,2-Dimethylpropane	463-82-1	< 8.21E-05	< 1.98E-05	< 8.11E-05	< 1.91E-05	< 4.11E-05	< 1.94E-05	< 6.81E-05	< 1.94E-05
	2,3-Dimethylpentane	565-59-3	< 8.14E-05	< 1.97E-05	< 8.05E-05	< 1.90E-05	< 4.08E-05	< 1.92E-05	< 6.76E-05	< 1.93E-05
	2,3,4-Trimethylpentane	565-75-3	< 8.12E-05	< 1.96E-05	< 8.03E-05	< 1.89E-05	< 4.07E-05	< 1.91E-05	< 6.74E-05	< 1.92E-05
	2,4-Dimethylhexane	589-43-5	< 8.12E-05	< 1.96E-05	< 8.03E-05	< 1.89E-05	< 4.07E-05	< 1.91E-05	< 6.74E-05	< 1.92E-05
1 2	3-Heptanone		0.00E+00	0.00E+00	0.00E+00	9.55E-04	5.48E-04	0.00E+00	1.83E-04	3.18E-04
	3-Methylhexane	589-34-4	< 8.14E-05	< 1.97E-05	< 8.05E-05	< 1.90E-05	< 4.08E-05	< 1.92E-05	< 6.76E-05	< 1.93E-05
	3-Methylpentane	96-14-0	1.14E-02	1.78E-02	8.88E-03	1.62E-02	1.23E-02	1.54E-02	1.09E-02	1.64E-02
	4-Methyl-1-pentene	691-37-2	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
1	4-Methyl-2-pentanone	00108-10-1	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1 2	Acetaldehyde		1.09E-03	1.49E-03	0.00E+00	1.59E-03	1.23E-03	1.61E-03	7.75E-04	1.56E-03
1	Acetone	00067-64-1	1.50E-03	1.29E-03	2.70E-03	7.80E-03	1.51E-03	3.39E-03	1.90E-03	4.16E-03
1	Acetonitrile	01722-09-4	< 1.09E-03	< 6.61E-04	< 1.08E-03	< 6.37E-04	< 5.48E-04	< 6.45E-04	< 9.08E-04	< 6.47E-04
1 2	Acetophenone		1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00
	Acetylene	74-86-2	< 7.41E-05	< 1.79E-05	< 7.32E-05	< 1.72E-05	< 3.71E-05	< 1.75E-05	< 6.14E-05	< 1.75E-05
1	Acrolein	00107-02-8	< 1.09E-03	3.80E-04	< 1.08E-03	6.05E-04	2.60E-04	2.58E-04	< 8.12E-04	4.14E-04
1	Acrylonitrile	00107-13-1	< 1.09E-03	< 6.61E-04	< 1.08E-03	< 6.37E-04	< 5.48E-04	< 6.45E-04	< 9.08E-04	< 6.47E-04
1	Allyl Chloride	00107-05-1	< 1.09E-03	< 6.61E-04	< 1.08E-03	< 6.37E-04	< 5.48E-04	< 6.45E-04	< 9.08E-04	< 6.47E-04
1 2	Alpha-Methylstyrene		0.00E+00	8.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
	a-Pinene	7785-70-8	3.10E-04	1.31E-03	3.60E-04	2.98E-03	5.04E-04	7.49E-04	3.91E-04	1.68E-03
	Benzene	71-43-2	< 7.41E-05	2.86E-04	< 7.32E-05	2.15E-03	< 3.71E-05	1.40E-04	< 6.14E-05	8.60E-04
1	Benzyl Chloride	00100-44-7	< 1.09E-03	< 6.61E-04	< 1.08E-03	< 6.37E-04	< 5.48E-04	< 6.45E-04	< 9.08E-04	< 6.47E-04
	b-Pinene	18172-67-3	< 3.88E-04	3.28E-04	< 3.83E-04	4.69E-04	3.18E-04	5.12E-04	< 3.63E-04	4.36E-04
1	Bromodichloromethane	00075-27-4	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Bromoform	00075-25-2	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Bromomethane	00074-83-9	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1 2	Butanal		0.00E+00	1.16E-03	0.00E+00	1.59E-03	9.58E-04	1.13E-03	3.19E-04	1.29E-03
1 2	Butyl Acetate		0.00E+00	0.00E+00	0.00E+00	3.18E-03	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1 2	C9H20 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	Carbon Disulfide	00075-15-0	2.19E-02	2.81E-02	2.03E-02	2.86E-02	2.33E-02	2.90E-02	2.18E-02	2.86E-02
1	Carbon Tetrachloride	00056-23-5	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Chlorobenzene	00108-90-7	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04

1 - TO14 Compound 2 - Tentatively Identified Compound

TRC

TABLE F.4-3
BELT GRINDING SPECIATED VOLATILES SUMMARY

	Compounds	CAS Numbers	Run 1 Cyc-In	Run 1 ESP-Out	Run 2 Cyc-In	Run 2 ESP-Out	Run 3 Cyc-In	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average Cyc-In w/ non-detects
	Speciated Vol. (lb/hr)									
1	Chloroethane	00075-00-3	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Chloroform	00067-66-3	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Chloromethane	00074-87-3	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	cis-1,2-Dichloroethene	00156-59-2	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	cis-1,3-Dichloropropene	10061-01-5	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
	cis-2-Butene	590-18-1	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	cis-2-Hexene	7688-21-3	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 7.34E-04	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 2.57E-04
	cis-2-Pentene	627-20-3	1.36E-03	6.07E-04	2.37E-03	1.95E-03	8.79E-04	7.05E-04	1.53E-03	1.09E-03
	Cumene	98-82-8	< 7.60E-05	< 1.84E-05	< 7.51E-05	< 1.77E-05	< 3.80E-05	< 1.79E-05	< 6.30E-05	< 1.80E-05
	Cyclohexane	110-82-7	1.44E-03	1.83E-03	1.97E-03	1.86E-05	2.08E-03	3.10E-03	1.83E-03	1.65E-03
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	5.51E-04	7.09E-04	6.76E-04	7.76E-04	7.39E-04	9.64E-04	6.56E-04	8.16E-04
	Cyclopentene	142-29-0	< 7.75E-05	< 1.87E-05	< 7.66E-05	1.80E-04	< 3.88E-05	1.92E-04	< 6.43E-05	< 1.30E-04
1	Dibromochloromethane	00124-48-1	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Dichlorodifluoromethane	00075-71-8	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
	d-Limonene	5989-27-5	5.19E-04	1.12E-03	2.91E-04	1.17E-03	2.02E-04	< 9.13E-05	3.37E-04	< 7.96E-04
1	Epichlorohydrin	00106-89-8	< 1.09E-03	< 6.61E-04	< 1.08E-03	< 6.37E-04	< 5.48E-04	< 6.45E-04	< 9.08E-04	< 6.47E-04
	Ethane	74-84-0	< 8.55E-05	< 2.07E-05	< 8.45E-05	< 1.99E-05	< 4.28E-05	< 2.02E-05	< 7.10E-05	< 2.02E-05
	Ethylacetylene	107-00-6	< 7.69E-05	< 1.86E-05	< 7.60E-05	< 1.79E-05	< 3.85E-05	< 1.81E-05	< 6.38E-05	< 1.82E-05
	Ethylbenzene	100-41-4	< 7.55E-05	2.92E-04	< 7.46E-05	4.30E-04	< 3.78E-05	2.94E-04	< 6.26E-05	3.39E-04
	Ethylene	74-85-1	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
1	Hexachlorobutadiene	00087-68-3	< 1.09E-03	< 6.61E-04	< 1.08E-03	< 6.37E-04	< 5.48E-04	< 6.45E-04	< 9.08E-04	< 6.47E-04
	Isobutane	75-28-5	3.72E-04	6.39E-04	5.23E-04	8.85E-04	4.80E-04	1.07E-03	4.58E-04	8.65E-04
	Isobutylene + 1-Butene	115-11-7/106-98-9	< 7.98E-05	2.51E-04	< 7.88E-05	2.41E-04	< 3.99E-05	2.63E-04	< 6.62E-05	2.52E-04
	Isooctane	540-84-1	< 8.12E-05	< 1.96E-05	< 8.03E-05	< 1.89E-05	< 4.07E-05	< 1.91E-05	< 6.74E-05	< 1.92E-05
	Isopentane	78-78-4	< 8.21E-05	2.18E-03	3.65E-03	1.05E-02	1.89E-03	6.19E-03	< 1.87E-03	6.29E-03
	Isoprene	78-79-5	< 7.75E-05	< 1.87E-05	< 7.66E-05	< 1.80E-05	< 3.88E-05	< 1.83E-05	< 6.43E-05	< 1.83E-05
1	Methyl tert-Butyl Ether	01634-04-4	< 1.09E-03	< 6.61E-04	< 1.08E-03	< 6.37E-04	< 5.48E-04	< 6.45E-04	< 9.08E-04	< 6.47E-04
	Methylacetylene	74-99-7	< 7.41E-05	< 1.79E-05	< 7.32E-05	< 1.72E-05	< 3.71E-05	< 1.75E-05	< 6.14E-05	< 1.75E-05
	Methylcyclohexane	108-87-2	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	Methylcyclopentane	96-37-7	7.18E-04	< 1.25E-03	6.70E-04	1.95E-04	4.39E-04	1.98E-04	6.09E-04	< 5.49E-04
1	Methylene Chloride	00075-09-2	2.19E-03	6.11E-04	6.49E-03	4.61E-03	1.51E-03	1.08E-03	3.39E-03	2.10E-03
	m-Ethyltoluene	620-14-4	< 7.60E-05	3.40E-04	< 7.51E-05	3.18E-04	< 3.80E-05	3.13E-04	< 6.30E-05	3.24E-04
	m-Xylene + p-Xylene	108-38-3/106-42-3	6.72E-04	7.84E-04	6.94E-04	1.23E-03	4.31E-04	6.94E-04	5.99E-04	9.03E-04
	n-Butane	106-97-8	< 8.27E-05	8.09E-04	< 8.17E-05	6.25E-03	< 4.14E-05	6.53E-04	< 6.86E-05	2.57E-03
	n-Decane	124-18-5	1.46E-03	1.56E-03	1.04E-03	1.41E-03	1.13E-03	1.43E-03	1.21E-03	1.47E-03
	n-Heptane	142-82-5	< 8.14E-05	< 1.97E-05	< 8.05E-05	< 1.90E-05	< 4.08E-05	< 1.92E-05	< 6.76E-05	< 1.93E-05
	n-Hexane	110-54-3	3.99E-03	4.45E-03	3.21E-03	2.38E-03	1.54E-03	5.86E-04	2.91E-03	2.47E-03
	n-Nonane	111-84-2	5.92E-04	7.74E-04	4.65E-04	6.32E-04	3.25E-04	4.97E-04	4.60E-04	6.34E-04
	n-Octane	111-65-9	< 8.12E-05	< 1.96E-05	< 8.03E-05	6.05E-04	< 4.07E-05	< 1.91E-05	< 6.74E-05	< 2.15E-04
	n-Pentane	109-66-0	< 8.21E-05	< 1.98E-05	< 8.11E-05	< 1.91E-05	< 4.11E-05	< 1.94E-05	< 6.81E-05	< 1.94E-05
	n-Propylbenzene	103-65-1	< 7.60E-05	1.10E-04	< 7.51E-05	< 1.77E-05	< 3.80E-05	< 1.79E-05	< 6.30E-05	< 4.86E-05
1 2	n-Undecane		1.37E-03	1.65E-03	1.35E-03	1.59E-03	1.37E-03 0	1.61E-03	1.36E-03	< 1.62E-03
	o-Ethyltoluene	611-14-3	6.00E-04	1.74E-03	2.93E-04	1.41E-03	4.87E-04	1.52E-03	4.60E-04	1.56E-03
	o-Xylene	95-47-6	5.59E-04	6.39E-04	3.28E-04	6.68E-04	2.57E-04	3.56E-04	3.81E-04	5.54E-04
	p-Cymene	99-87-6	7.64E-04	< 9.23E-05	6.49E-04	< 8.88E-05	4.05E-04	6.75E-04	6.06E-04	< 2.85E-04
	p-Ethyltoluene	622-96-8	< 7.60E-05	2.75E-04	< 7.51E-05	2.56E-04	< 3.80E-05	2.06E-04	< 6.30E-05	2.46E-04
	Propane	74-98-6	3.34E-04	1.11E-03	1.24E-03	3.60E-03	2.85E-04	5.62E-04	6.19E-04	1.76E-03
	Propylene	115-07-1	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
1	Propylene Oxide	00075-56-9	< 1.09E-03	2.48E-03	2.43E-03	4.61E-03	3.83E-03	1.93E-03	< 2.45E-03	3.01E-03
	Styrene	100-42-5	< 7.41E-05	< 1.79E-05	< 7.32E-05	< 1.72E-05	< 3.71E-05	< 1.75E-05	< 6.14E-05	< 1.75E-05
1	Tetrachloroethene	00127-18-4	1.20E-02	8.10E-03	1.01E-02	1.08E-02	7.39E-03	1.26E-02	9.85E-03	1.05E-02
	Toluene	108-88-3	8.99E-02	9.95E-02	9.62E-02	1.22E-01	1.05E-01	1.24E-01	9.70E-02	1.15E-01
1	trans-1,2-Dichloroethene	00156-60-5	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	trans-1,3-Dichloropropene	10061-02-6	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
	trans-2-Butene	624-64-6	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	trans-2-Hexene	4050-45-7	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
	trans-2-Pentene	646-04-8	< 7.98E-05	< 1.93E-05	< 7.88E-05	< 1.86E-05	< 3.99E-05	< 1.88E-05	< 6.62E-05	< 1.89E-05
1	Trichloroethene	00079-01-6	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Trichlorofluoromethane	00075-69-4	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Trichlorotrifluoroethane	00076-13-1	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1 2	Unknown		0.00E+00	8.26E-04	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	8.06E-04
1	Vinyl Acetate	00108-05-4	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
1	Vinyl Chloride	00075-01-4	< 5.47E-04	< 3.30E-04	< 5.40E-04	< 3.18E-04	< 2.74E-04	< 3.22E-04	< 4.54E-04	< 3.24E-04
	Total Detected		1.68E-01	2.07E-01	1.78E-01	2.66E-01	1.84E-01	2.30E-01	1.77E-01	2.35E-01
	Total with non-detects		< 2.04E-01	< 2.27E-01	< 2.12E-01	< 2.84E-01	< 2.00E-01	< 2.50E-01	< 2.05E-01	< 2.54E-01

1 - TO14 Compound 2 - Tentatively Identified Compound

TRC

TABLE F.4-3
BELT GRINDING SPECIATED VOLATILES SUMMARY

			Run 1		Run 2		Run 3		Average	
	Compounds	CAS Numbers	Cyc-In	ESP-Out	Cyc-In	ESP-Out	Cyc-In	ESP-Out	Cyc-In w/ non-detects	Cyc-In w/ non-detects
	Speciated Vol. (lb/lb rubber)									
1 2	1-Chloro-4-(1-chloroethenyl) cyclohexene		1.57E-05	4.76E-05	0.00E+00	2.44E-05	1.66E-05	1.76E-05	1.08E-05	2.99E-05
1 2	1-Chloro-5-(1-chloroethenyl) cyclohexene		0.00E+00	2.38E-05	0.00E+00	1.95E-05	1.16E-05	9.78E-06	3.88E-06	1.77E-05
	1-Heptene	592-76-7	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	1-Hexene	592-41-6	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	1-Octene	111-60-0	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	1-Pentene	109-67-1	< 1.15E-06	7.21E-06	< 1.21E-06	8.27E-06	< 4.85E-07	6.51E-06	< 9.48E-07	7.33E-06
1	1,1-Dichloroethene	00075-35-4	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	1,1-Dichloroethane	00075-34-3	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	1,1,1-Trichloroethane	00071-55-6	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	1,1,2-Trichloroethane	00079-00-5	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 1.57E-05	< 9.51E-06	< 1.66E-05	< 9.77E-06	< 6.65E-06	< 7.82E-06	< 1.30E-05	< 9.04E-06
1	1,2-Dibromoethane	00106-93-4	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	1,2-Dichlorobenzene	00095-50-1	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	1,2-Dichloroethane	00107-06-2	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	1,2-Dichloropropane	00078-87-5	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
	1,2,4-Trimethylbenzene	95-63-6	7.76E-06	7.79E-06	3.11E-06	8.14E-06	5.82E-06	6.41E-06	5.56E-06	7.45E-06
	1,3-Butadiene	106-99-0	2.77E-05	9.09E-06	3.62E-05	9.48E-06	8.41E-06	6.38E-06	2.41E-05	8.32E-06
1	1,3-Dichlorobenzene	00541-73-1	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
	1,3,5-Trimethylbenzene	108-67-8	< 5.47E-06	4.89E-06	< 5.76E-06	6.38E-06	< 2.31E-06	4.56E-06	< 4.51E-06	5.28E-06
1	1,4-Dichlorobenzene	00106-46-7	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	8.35E-06	3.45E-06	4.17E-06	8.18E-06	1.30E-06	2.40E-06	4.61E-06	4.68E-06
1	1,4-Dioxane	00123-91-1	< 3.15E-05	< 1.90E-05	< 3.32E-05	< 1.95E-05	< 1.33E-05	< 1.56E-05	< 2.60E-05	< 1.81E-05
1	2-Butanone	00078-93-3	< 1.57E-05	< 9.51E-06	< 1.66E-05	4.89E-06	2.49E-06	< 3.91E-06	< 1.16E-05	< 6.10E-06
1 2	2-Chloro-1,3-Butadiene		7.87E-05	1.43E-04	8.30E-05	1.47E-04	8.31E-05	1.17E-04	8.16E-05	1.36E-04
1 2	2-Chlorothiophene		0.00E+00	1.19E-05	0.00E+00	1.22E-05	6.65E-06	7.82E-06	2.22E-06	1.06E-05
1 2	2-Heptanone		0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06
1	2-Hexanone	00591-78-6	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
	2-Methyl-1-butene	563-46-2	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	2-Methyl-2-butene	513-35-9	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	2-Methyl-2-pentene	625-27-4	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	2-Methylheptane	592-27-8	< 1.17E-06	< 2.82E-07	< 1.23E-06	< 2.90E-07	< 4.93E-07	< 2.32E-07	< 9.65E-07	< 2.68E-07
	2-Methylhexane	591-76-4	< 1.17E-06	2.83E-07	< 1.23E-06	< 2.91E-07	< 4.95E-07	< 2.33E-07	< 9.67E-07	< 2.69E-07
	2-Methylpentane	107-83-5	2.00E-05	3.13E-05	3.10E-05	4.23E-05	1.29E-05	3.62E-05	2.13E-05	3.66E-05
	2,2-Dimethylbutane	75-83-2	5.29E-06	< 2.84E-07	7.93E-06	1.30E-05	6.95E-06	9.82E-06	6.72E-06	< 7.70E-06
	2,2-Dimethylpropane	463-82-1	< 1.18E-06	< 2.85E-07	< 1.24E-06	< 2.93E-07	< 4.99E-07	< 2.35E-07	< 9.75E-07	< 2.71E-07
	2,3-Dimethylpentane	565-59-3	< 1.17E-06	< 2.83E-07	< 1.23E-06	< 2.91E-07	< 4.95E-07	< 2.33E-07	< 9.67E-07	< 2.69E-07
	2,3,4-Trimethylpentane	565-75-3	< 1.17E-06	< 2.82E-07	< 1.23E-06	< 2.90E-07	< 4.93E-07	< 2.32E-07	< 9.65E-07	< 2.68E-07
	2,4-Dimethylhexane	589-43-5	< 1.17E-06	< 2.82E-07	< 1.23E-06	< 2.90E-07	< 4.93E-07	< 2.32E-07	< 9.65E-07	< 2.68E-07
1 2	3-Heptanone		0.00E+00	0.00E+00	0.00E+00	1.47E-05	6.65E-06	0.00E+00	2.22E-06	4.89E-06
	3-Methylhexane	589-34-4	< 1.17E-06	< 2.83E-07	< 1.23E-06	< 2.91E-07	< 4.95E-07	< 2.33E-07	< 9.67E-07	< 2.69E-07
	3-Methylpentane	96-14-0	1.65E-04	2.56E-04	1.36E-04	2.48E-04	1.49E-04	1.87E-04	1.50E-04	2.30E-04
	4-Methyl-1-pentene	691-37-2	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
1	4-Methyl-2-pentanone	00108-10-1	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1 2	Acetaldehyde		1.57E-05	2.14E-05	0.00E+00	2.44E-05	1.50E-05	1.96E-05	1.02E-05	2.18E-05
1	Acetone	00067-64-1	2.16E-05	1.85E-05	4.15E-05	1.20E-04	1.83E-05	4.11E-05	2.71E-05	5.98E-05
1	Acetonitrile	01722-09-4	< 1.57E-05	< 9.51E-06	< 1.66E-05	< 9.77E-06	< 6.65E-06	< 7.82E-06	< 1.30E-05	< 9.04E-06
1 2	Acetophenone		1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06	0.00E+00
	Acetylene	74-86-2	< 1.07E-06	< 2.58E-07	< 1.12E-06	< 2.65E-07	< 4.50E-07	< 2.12E-07	< 8.80E-07	< 2.45E-07
1	Acrolein	00107-02-8	< 1.57E-05	5.47E-06	< 1.66E-05	9.28E-06	3.16E-06	3.13E-06	< 1.18E-05	5.96E-06
1	Acrylonitrile	00107-13-1	< 1.57E-05	< 9.51E-06	< 1.66E-05	< 9.77E-06	< 6.65E-06	< 7.82E-06	< 1.30E-05	< 9.04E-06
1	Allyl Chloride	00107-05-1	< 1.57E-05	< 9.51E-06	< 1.66E-05	< 9.77E-06	< 6.65E-06	< 7.82E-06	< 1.30E-05	< 9.04E-06
1 2	Alpha-Methylstyrene		0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06
	a-Pinene	7785-70-8	4.46E-06	1.89E-05	5.52E-06	4.57E-05	6.12E-06	9.09E-06	5.37E-06	2.45E-05
	Benzene	71-43-2	< 1.07E-06	4.12E-06	< 1.12E-06	3.31E-05	< 4.50E-07	1.70E-06	< 8.80E-07	1.30E-05
1	Benzyl Chloride	00100-44-7	< 1.57E-05	< 9.51E-06	< 1.66E-05	< 9.77E-06	< 6.65E-06	< 7.82E-06	< 1.30E-05	< 9.04E-06
	b-Pinene	18172-67-3	< 5.58E-06	4.72E-06	< 5.88E-06	7.20E-06	3.86E-06	6.21E-06	< 5.10E-06	6.04E-06
1	Bromodichloromethane	00075-27-4	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Bromoform	00075-25-2	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Bromomethane	00074-83-9	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1 2	Butanal		0.00E+00	1.66E-05	0.00E+00	2.44E-05	1.16E-05	1.37E-05	3.88E-06	1.83E-05
1 2	Butyl Acetate		0.00E+00	0.00E+00	0.00E+00	4.89E-05	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1 2	C9H20 Alkane		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	Carbon Disulfide	00075-15-0	3.15E-04	4.04E-04	3.11E-04	4.40E-04	2.82E-04	3.52E-04	3.03E-04	3.99E-04
1	Carbon Tetrachloride	00056-23-5	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Chlorobenzene	00108-90-7	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06

1 - TO14 Compound 2 - Tentatively Identified Compound

TRC

TABLE F.4-3
BELT GRINDING SPECIATED VOLATILES SUMMARY

	Compounds	CAS Numbers	Run 1 Cyc-In	Run 1 ESP-Out	Run 2 Cyc-In	Run 2 ESP-Out	Run 3 Cyc-In	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average Cyc-In w/ non-detects
Speciated Vol. (lb/lb rubber)										
1	Chloroethane	00075-00-3	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Chloroform	00067-66-3	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Chloromethane	00074-87-3	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	cis-1,2-Dichloroethene	00156-59-2	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	cis-1,3-Dichloropropene	10061-01-5	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
	cis-2-Butene	590-18-1	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	cis-2-Hexene	7688-21-3	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 1.13E-05	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 3.92E-06
	cis-2-Pentene	627-20-3	1.95E-05	8.74E-06	3.63E-05	2.99E-05	1.07E-05	8.56E-06	2.22E-05	1.57E-05
	Cumene	98-82-8	< 1.09E-06	< 2.64E-07	< 1.15E-06	< 2.71E-07	< 4.62E-07	< 2.17E-07	< 9.02E-07	< 2.51E-07
	Cyclohexane	110-82-7	2.07E-05	2.64E-05	3.03E-05	2.85E-07	2.52E-05	3.77E-05	2.54E-05	2.14E-05
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	7.93E-06	1.02E-05	1.04E-05	1.19E-05	8.97E-06	1.17E-05	9.09E-06	1.13E-05
	Cyclopentene	142-29-0	< 1.12E-06	< 2.69E-07	< 1.18E-06	2.77E-06	< 4.71E-07	2.33E-06	< 9.20E-07	< 1.79E-06
1	Dibromochloromethane	00124-48-1	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Dichlorodifluoromethane	00075-71-8	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
	d-Limonene	5989-27-5	7.47E-06	1.62E-05	4.47E-06	1.80E-05	2.45E-06	< 1.11E-06	4.80E-06	< 1.18E-05
1	Epichlorohydrin	00106-89-8	< 1.57E-05	< 9.51E-06	< 1.66E-05	< 9.77E-06	< 6.65E-06	< 7.82E-06	< 1.30E-05	< 9.04E-06
	Ethane	74-84-0	< 1.23E-06	< 2.97E-07	< 1.30E-06	< 3.06E-07	< 5.20E-07	< 2.45E-07	< 1.02E-06	< 2.83E-07
	Ethylacetylene	107-00-6	< 1.11E-06	< 2.67E-07	< 1.17E-06	< 2.75E-07	< 4.67E-07	< 2.20E-07	< 9.14E-07	< 2.54E-07
	Ethylbenzene	100-41-4	< 1.09E-06	4.20E-06	< 1.14E-06	6.61E-06	< 4.59E-07	3.56E-06	< 8.97E-07	4.79E-06
	Ethylene	74-85-1	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
1	Hexachlorobutadiene	00087-68-3	< 1.57E-05	< 9.51E-06	< 1.66E-05	< 9.77E-06	< 6.65E-06	< 7.82E-06	< 1.30E-05	< 9.04E-06
	Isobutane	75-28-5	5.35E-06	9.20E-06	8.02E-06	1.36E-05	5.83E-06	1.30E-05	6.40E-06	1.19E-05
	Isobutylene + 1-Butene	115-11-7/106-98-9	< 1.15E-06	3.61E-06	< 1.21E-06	3.71E-06	< 4.85E-07	3.20E-06	< 9.48E-07	3.50E-06
	Isooctane	540-84-1	< 1.17E-06	< 2.82E-07	< 1.23E-06	< 2.90E-07	< 4.93E-07	< 2.32E-07	< 9.65E-07	< 2.68E-07
	Isopentane	78-78-4	< 1.18E-06	3.14E-05	5.60E-05	1.61E-04	2.29E-05	7.51E-05	< 2.67E-05	8.93E-05
	Isoprene	78-79-5	< 1.12E-06	< 2.69E-07	< 1.18E-06	< 2.77E-07	< 4.71E-07	< 2.22E-07	< 9.20E-07	< 2.56E-07
1	Methyl tert-Butyl Ether	01634-04-4	< 1.57E-05	< 9.51E-06	< 1.66E-05	< 9.77E-06	< 6.65E-06	< 7.82E-06	< 1.30E-05	< 9.04E-06
	Methylacetylene	74-99-7	< 1.07E-06	< 2.58E-07	< 1.12E-06	< 2.65E-07	< 4.50E-07	< 2.12E-07	< 8.80E-07	< 2.45E-07
	Methylcyclohexane	108-87-2	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	Methylcyclopentane	96-37-7	1.03E-05	< 1.80E-05	1.03E-05	2.99E-06	5.33E-06	2.40E-06	8.65E-06	< 7.81E-06
1	Methylene Chloride	00075-09-2	3.15E-05	8.80E-06	9.96E-05	7.08E-05	1.83E-05	1.31E-05	4.98E-05	3.09E-05
	m-Ethyltoluene	620-14-4	< 1.09E-06	4.89E-06	< 1.15E-06	4.88E-06	< 4.62E-07	3.80E-06	< 9.02E-07	4.53E-06
	m-Xylene + p-Xylene	108-38-3/106-42-3	9.67E-06	1.13E-05	1.06E-05	1.89E-05	5.23E-06	8.42E-06	8.51E-06	1.29E-05
	n-Butane	106-97-8	< 1.19E-06	1.16E-05	< 1.25E-06	9.60E-05	< 5.02E-07	7.92E-06	< 9.82E-07	3.85E-05
	n-Decane	124-18-5	2.10E-05	2.25E-05	1.60E-05	2.17E-05	1.38E-05	1.74E-05	1.69E-05	2.05E-05
	n-Heptane	142-82-5	< 1.17E-06	< 2.83E-07	< 1.23E-06	< 2.91E-07	< 4.95E-07	< 2.33E-07	< 9.67E-07	< 2.69E-07
	n-Hexane	110-54-3	5.74E-05	6.40E-05	4.93E-05	3.66E-05	1.86E-05	7.11E-06	4.18E-05	3.59E-05
	n-Nonane	111-84-2	8.52E-06	1.11E-05	7.13E-06	9.70E-06	3.94E-06	6.03E-06	6.53E-06	8.96E-06
	n-Octane	111-65-9	< 1.17E-06	< 2.82E-07	< 1.23E-06	9.28E-06	< 4.93E-07	< 2.32E-07	< 9.65E-07	< 3.27E-06
	n-Pentane	109-66-0	< 1.18E-06	< 2.85E-07	< 1.24E-06	< 2.93E-07	< 4.99E-07	< 2.35E-07	< 9.75E-07	< 2.71E-07
	n-Propylbenzene	103-65-1	< 1.09E-06	1.58E-06	< 1.15E-06	< 2.71E-07	< 4.62E-07	< 2.17E-07	< 9.02E-07	< 6.91E-07
1 2	n-Undecane		1.97E-05	2.38E-05	2.07E-05	2.44E-05	1.66E-05	0 1.96E-05	1.90E-05	< 2.26E-05
	o-Ethyltoluene	611-14-3	8.64E-06	2.51E-05	4.49E-06	2.17E-05	5.91E-06	1.85E-05	6.35E-06	2.18E-05
	o-Xylene	95-47-6	8.04E-06	9.19E-06	5.04E-06	1.02E-05	3.12E-06	4.32E-06	5.40E-06	7.92E-06
	p-Cymene	99-87-6	1.10E-05	< 1.33E-06	9.96E-06	< 1.36E-06	4.92E-06	8.19E-06	8.62E-06	< 3.63E-06
	p-Ethyltoluene	622-96-8	< 1.09E-06	3.96E-06	< 1.15E-06	3.93E-06	< 4.62E-07	2.50E-06	< 9.02E-07	3.47E-06
	Propane	74-98-6	4.81E-06	1.60E-05	1.90E-05	5.53E-05	3.45E-06	6.82E-06	9.10E-06	2.60E-05
	Propylene	115-07-1	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
1	Propylene Oxide	00075-56-9	< 1.57E-05	3.57E-05	3.73E-05	7.08E-05	4.65E-05	2.35E-05	< 3.32E-05	4.33E-05
	Styrene	100-42-5	< 1.07E-06	< 2.58E-07	< 1.12E-06	< 2.65E-07	< 4.50E-07	< 2.12E-07	< 8.80E-07	< 2.45E-07
1	Tetrachloroethene	00127-18-4	1.73E-04	1.16E-04	1.56E-04	1.66E-04	8.97E-05	1.53E-04	1.39E-04	1.45E-04
	Toluene	108-88-3	1.29E-03	1.43E-03	1.48E-03	1.87E-03	1.27E-03	1.50E-03	1.35E-03	1.60E-03
1	trans-1,2-Dichloroethene	00156-60-5	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	trans-1,3-Dichloropropene	10061-02-6	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
	trans-2-Butene	624-64-6	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	trans-2-Hexene	4050-45-7	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
	trans-2-Pentene	646-04-8	< 1.15E-06	< 2.77E-07	< 1.21E-06	< 2.85E-07	< 4.85E-07	< 2.28E-07	< 9.48E-07	< 2.64E-07
1	Trichloroethene	00079-01-6	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Trichlorofluoromethane	00075-69-4	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Trichlortrifluoroethane	00076-13-1	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1 2	Unknown		0.00E+00	1.19E-05	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	1.21E-05
1	Vinyl Acetate	00108-05-4	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
1	Vinyl Chloride	00075-01-4	< 7.87E-06	< 4.76E-06	< 8.30E-06	< 4.89E-06	< 3.32E-06	< 3.91E-06	< 6.50E-06	< 4.52E-06
	Total Detected		2.42E-03	2.98E-03	2.73E-03	4.09E-03	2.24E-03	2.80E-03	2.46E-03	3.29E-03
	Total with non-detects		< 2.94E-03	< 3.27E-03	< 3.25E-03	< 4.36E-03	< 2.43E-03	< 3.03E-03	< 2.87E-03	< 3.55E-03

1 - TO14 Compound 2 - Tentatively Identified Compound

TRC

TABLE F.4-4

BELT GRINDING SULFUR SUMMARY

Compounds	CAS Numbers	Run 1 Cyc-In	Run 1 ESP-Out	Run 2 Cyc-In	Run 2 ESP-Out	Run 3 Cyc-In	Run 3 ESP-Out	Average Cyc-In w/ non-detects	Average ESP-Out w/ non-detects
Sulfur (ug/m³)									
Carbonyl Sulfide	463-58-1	< 20.0	59.6	46.5	< 98.0	59.1	< 98.0	< 41.9	< 85.2
Methyl Mercaptan	74-93-1	< 16.0	< 7.9	< 16.0	< 79.0	< 7.9	< 79.0	< 13.3	< 55.3
Ethyl Mercaptan	75-08-1	< 20.0	< 10.0	< 20.0	< 100.0	< 10.0	< 100.0	< 16.7	< 70.0
Dimethyl Sulfide	75-18-3	< 20.0	< 10.0	< 20.0	< 100.0	< 10.0	< 100.0	< 16.7	< 70.0
Carbon Disulfide	75-15-0	1120.0	1210.0	1000.0	1300.0	1140.0	1180.0	1086.7	1230.0
Isopropyl Mercaptan	75-33-2	< 25.0	< 12.0	< 25.0	< 120.0	< 12.0	< 120.0	< 20.7	< 84.0
tert-Butyl Mercaptan	75-66-1	< 29.0	< 15.0	< 29.0	< 150.0	< 15.0	< 150.0	< 24.3	< 105.0
n-Propyl Mercaptan	107-03-9	< 25.0	< 12.0	< 25.0	< 120.0	< 12.0	< 120.0	< 20.7	< 84.0
Ethyl Methyl Sulfide	624-89-5	< 25.0	< 12.0	< 25.0	< 120.0	< 12.0	< 120.0	< 20.7	< 84.0
Thiophene	110-02-1	< 28.0	< 14.0	< 28.0	< 140.0	< 14.0	< 140.0	< 23.3	< 98.0
Isobutyl Mercaptan	513-44-0	< 29.0	< 15.0	< 29.0	< 150.0	< 15.0	< 150.0	< 24.3	< 105.0
Diethyl Sulfide	352-93-2	< 29.0	< 15.0	< 29.0	< 150.0	< 15.0	< 150.0	< 24.3	< 105.0
n-Butyl Mercaptan	109-79-5	< 29.0	< 15.0	< 29.0	< 150.0	< 15.0	< 150.0	< 24.3	< 105.0
Dimethyl Disulfide	624-92-0	< 15.0	< 7.7	< 15.0	< 77.0	< 7.7	< 77.0	< 12.6	< 53.9
3-Methylthiophene	616-44-4	< 32.0	< 16.0	< 32.0	< 160.0	< 16.0	< 160.0	< 26.7	< 112.0
Tetrahydrothiophene	110-01-0	< 29.0	< 14.0	< 29.0	< 140.0	< 14.0	< 140.0	< 24.0	< 98.0
2-Ethylthiophene	872-55-9	< 37.0	< 18.0	< 37.0	< 180.0	< 18.0	< 180.0	< 30.7	< 126.0
2,5-Dimethylthiophene	638-02-8	< 37.0	< 18.0	< 37.0	< 180.0	< 18.0	< 180.0	< 30.7	< 126.0
Diethyl Disulfide	110-81-6	< 20.0	< 10.0	< 20.0	< 100.0	< 10.0	< 100.0	< 16.7	< 70.0
Total Detected		1120.0	1269.6	1046.5	1300.0	1199.1	1180.0	1121.9	1249.9
Total with non-detects		< 1585.0	< 1491.2	< 1491.5	< 3614.0	< 1420.7	< 3494.0	< 1499.1	< 2866.4
Sulfur (lb/hr)									
Carbonyl Sulfide	463-58-1	< 2.74E-04	9.85E-04	6.28E-04	< 1.56E-03	8.09E-04	< 1.58E-03	< 5.70E-04	< 1.37E-03
Methyl Mercaptan	74-93-1	< 2.19E-04	< 1.31E-04	< 2.16E-04	< 1.26E-03	< 1.08E-04	< 1.27E-03	< 1.81E-04	< 8.87E-04
Ethyl Mercaptan	75-08-1	< 2.74E-04	< 1.65E-04	< 2.70E-04	< 1.59E-03	< 1.37E-04	< 1.61E-03	< 2.27E-04	< 1.12E-03
Dimethyl Sulfide	75-18-3	< 2.74E-04	< 1.65E-04	< 2.70E-04	< 1.59E-03	< 1.37E-04	< 1.61E-03	< 2.27E-04	< 1.12E-03
Carbon Disulfide	75-15-0	1.53E-02	2.00E-02	1.35E-02	2.07E-02	1.56E-02	1.90E-02	1.48E-02	1.99E-02
Isopropyl Mercaptan	75-33-2	< 3.42E-04	< 1.98E-04	< 3.38E-04	< 1.91E-03	< 1.64E-04	< 1.93E-03	< 2.81E-04	< 1.35E-03
tert-Butyl Mercaptan	75-66-1	< 3.97E-04	< 2.48E-04	< 3.92E-04	< 2.39E-03	< 2.05E-04	< 2.42E-03	< 3.31E-04	< 1.68E-03
n-Propyl Mercaptan	107-03-9	< 3.42E-04	< 1.98E-04	< 3.38E-04	< 1.91E-03	< 1.64E-04	< 1.93E-03	< 2.81E-04	< 1.35E-03
Ethyl Methyl Sulfide	624-89-5	< 3.42E-04	< 1.98E-04	< 3.38E-04	< 1.91E-03	< 1.64E-04	< 1.93E-03	< 2.81E-04	< 1.35E-03
Thiophene	110-02-1	< 3.83E-04	< 2.31E-04	< 3.78E-04	< 2.23E-03	< 1.92E-04	< 2.26E-03	< 3.18E-04	< 1.57E-03
Isobutyl Mercaptan	513-44-0	< 3.97E-04	< 2.48E-04	< 3.92E-04	< 2.39E-03	< 2.05E-04	< 2.42E-03	< 3.31E-04	< 1.68E-03
Diethyl Sulfide	352-93-2	< 3.97E-04	< 2.48E-04	< 3.92E-04	< 2.39E-03	< 2.05E-04	< 2.42E-03	< 3.31E-04	< 1.68E-03
n-Butyl Mercaptan	109-79-5	< 3.97E-04	< 2.48E-04	< 3.92E-04	< 2.39E-03	< 2.05E-04	< 2.42E-03	< 3.31E-04	< 1.68E-03
Dimethyl Disulfide	624-92-0	< 2.05E-04	< 1.27E-04	< 2.03E-04	< 1.23E-03	< 1.05E-04	< 1.24E-03	< 1.71E-04	< 8.65E-04
3-Methylthiophene	616-44-4	< 4.38E-04	< 2.64E-04	< 4.32E-04	< 2.55E-03	< 2.19E-04	< 2.58E-03	< 3.63E-04	< 1.80E-03
Tetrahydrothiophene	110-01-0	< 3.97E-04	< 2.31E-04	< 3.92E-04	< 2.23E-03	< 1.92E-04	< 2.26E-03	< 3.27E-04	< 1.57E-03
2-Ethylthiophene	872-55-9	< 5.06E-04	< 2.97E-04	< 5.00E-04	< 2.86E-03	< 2.46E-04	< 2.90E-03	< 4.17E-04	< 2.02E-03
2,5-Dimethylthiophene	638-02-8	< 5.06E-04	< 2.97E-04	< 5.00E-04	< 2.86E-03	< 2.46E-04	< 2.90E-03	< 4.17E-04	< 2.02E-03
Diethyl Disulfide	110-81-6	< 2.74E-04	< 1.65E-04	< 2.70E-04	< 1.59E-03	< 1.37E-04	< 1.61E-03	< 2.27E-04	< 1.12E-03
Total Detected		1.53E-02	2.10E-02	1.41E-02	2.07E-02	1.64E-02	1.90E-02	1.53E-02	2.02E-02
Total with non-detects		< 2.17E-02	< 2.46E-02	< 2.02E-02	< 5.75E-02	< 1.95E-02	< 5.63E-02	< 2.04E-02	< 4.62E-02
Sulfur (lb/lb rubber removed)									
Carbonyl Sulfide	463-58-1	< 3.94E-06	1.42E-05	9.64E-06	< 2.39E-05	9.82E-06	< 1.92E-05	< 7.80E-06	< 1.91E-05
Methyl Mercaptan	74-93-1	< 3.15E-06	< 1.88E-06	< 3.32E-06	< 1.93E-05	< 1.31E-06	< 1.55E-05	< 2.59E-06	< 1.22E-05
Ethyl Mercaptan	75-08-1	< 3.94E-06	< 2.38E-06	< 4.15E-06	< 2.44E-05	< 1.66E-06	< 1.96E-05	< 3.25E-06	< 1.55E-05
Dimethyl Sulfide	75-18-3	< 3.94E-06	< 2.38E-06	< 4.15E-06	< 2.44E-05	< 1.66E-06	< 1.96E-05	< 3.25E-06	< 1.55E-05
Carbon Disulfide	75-15-0	2.20E-04	2.88E-04	2.07E-04	3.18E-04	1.89E-04	2.31E-04	2.06E-04	2.79E-04
Isopropyl Mercaptan	75-33-2	< 4.92E-06	< 2.85E-06	< 5.18E-06	< 2.93E-05	< 1.99E-06	< 2.35E-05	< 4.03E-06	< 1.85E-05
tert-Butyl Mercaptan	75-66-1	< 5.71E-06	< 3.57E-06	< 6.01E-06	< 3.66E-05	< 2.49E-06	< 2.93E-05	< 4.74E-06	< 2.32E-05
n-Propyl Mercaptan	107-03-9	< 4.92E-06	< 2.85E-06	< 5.18E-06	< 2.93E-05	< 1.99E-06	< 2.35E-05	< 4.03E-06	< 1.85E-05
Ethyl Methyl Sulfide	624-89-5	< 4.92E-06	< 2.85E-06	< 5.18E-06	< 2.93E-05	< 1.99E-06	< 2.35E-05	< 4.03E-06	< 1.85E-05
Thiophene	110-02-1	< 5.51E-06	< 3.33E-06	< 5.81E-06	< 3.42E-05	< 2.33E-06	< 2.74E-05	< 4.55E-06	< 2.16E-05
Isobutyl Mercaptan	513-44-0	< 5.71E-06	< 3.57E-06	< 6.01E-06	< 3.66E-05	< 2.49E-06	< 2.93E-05	< 4.74E-06	< 2.32E-05
Diethyl Sulfide	352-93-2	< 5.71E-06	< 3.57E-06	< 6.01E-06	< 3.66E-05	< 2.49E-06	< 2.93E-05	< 4.74E-06	< 2.32E-05
n-Butyl Mercaptan	109-79-5	< 5.71E-06	< 3.57E-06	< 6.01E-06	< 3.66E-05	< 2.49E-06	< 2.93E-05	< 4.74E-06	< 2.32E-05
Dimethyl Disulfide	624-92-0	< 2.95E-06	< 1.83E-06	< 3.11E-06	< 1.88E-05	< 1.28E-06	< 1.51E-05	< 2.45E-06	< 1.19E-05
3-Methylthiophene	616-44-4	< 6.30E-06	< 3.80E-06	< 6.64E-06	< 3.91E-05	< 2.66E-06	< 3.13E-05	< 5.20E-06	< 2.47E-05
Tetrahydrothiophene	110-01-0	< 5.71E-06	< 3.33E-06	< 6.01E-06	< 3.42E-05	< 2.33E-06	< 2.74E-05	< 4.68E-06	< 2.16E-05
2-Ethylthiophene	872-55-9	< 7.28E-06	< 4.28E-06	< 7.67E-06	< 4.40E-05	< 2.99E-06	< 3.52E-05	< 5.98E-06	< 2.78E-05
2,5-Dimethylthiophene	638-02-8	< 7.28E-06	< 4.28E-06	< 7.67E-06	< 4.40E-05	< 2.99E-06	< 3.52E-05	< 5.98E-06	< 2.78E-05
Diethyl Disulfide	110-81-6	< 3.94E-06	< 2.38E-06	< 4.15E-06	< 2.44E-05	< 1.66E-06	< 1.96E-05	< 3.25E-06	< 1.55E-05
Total Detected		2.20E-04	3.02E-04	2.17E-04	3.18E-04	1.99E-04	2.31E-04	2.12E-04	2.83E-04
Total with non-detects		< 3.12E-04	< 3.55E-04	< 3.09E-04	< 8.83E-04	< 2.36E-04	< 6.83E-04	< 2.86E-04	< 6.40E-04

TRC

TABLE F.4-5

BELT GRINDING METALS SUMMARY

	Run 1			Run 2			Run 3			Average		
	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out
Metals (µg) *												
Cr	79.00	4.75	15.75	47.00	5.50	17.25	41.00	3.00	17.50	55.67	4.42	16.83
Cu	64.00	23.00	7.50	37.75	9.75	6.25	39.25	5.50	3.50	47.00	12.75	5.75
Mg	807.50	63.50	18.00	617.50	94.20	20.00	1,065.00	56.25	17.50	830.00	71.32	18.50
Ni	241.20	11.75	9.25	167.20	9.25	6.75	174.50	6.25	17.75	194.30	9.08	11.25
Zn	594,989.75	759.75	517.25	497,489.75	884.75	252.25	434,989.75	517.25	200.55	509,156.42	720.58	323.35
Cd	5.75	7.60	1.13	1.83	2.23	0.95	1.66	2.02	0.77	3.08	3.95	0.95
Pb	53.18	47.93	3.68	31.18	11.53	2.66	19.71	3.18	2.61	34.69	20.88	2.98
Total Detected	596,240.38	918.28	572.56	498,392.21	1,017.21	306.11	436,330.87	593.45	260.18	510,321.15	842.98	379.62
Metals (µg/m³)												
Cr	32.96	2.04	6.80	20.09	2.62	7.57	17.64	1.28	7.23	23.57	1.98	7.20
Cu	26.70	9.87	3.24	16.14	4.64	2.74	16.89	2.35	1.45	19.91	5.62	2.48
Mg	336.93	27.26	7.78	263.95	44.86	8.78	458.31	24.03	7.23	353.06	32.05	7.93
Ni	100.64	5.04	4.00	71.47	4.41	2.96	75.09	2.67	7.34	82.40	4.04	4.77
Zn	248,257.37	326.12	223.47	212,651.66	421.37	110.74	187,193.74	220.97	82.90	216,034.26	322.82	139.04
Cd	2.40	3.26	0.49	0.78	1.06	0.42	0.71	0.86	0.32	1.30	1.73	0.41
Pb	22.19	20.57	1.59	13.33	5.49	1.17	8.48	1.36	1.08	14.67	9.14	1.28
Total Detected	248,779.20	394.17	247.37	213,037.42	484.45	134.38	187,770.87	253.52	107.55	216,529.16	377.38	163.10
Metals (lb/hr)												
Cr	4.47E-04	3.14E-05	9.77E-05	2.77E-04	3.59E-05	1.09E-04	2.40E-04	2.01E-05	1.10E-04	3.21E-04	2.92E-05	1.06E-04
Cu	3.62E-04	1.52E-04	4.65E-05	2.23E-04	6.37E-05	3.93E-05	2.30E-04	3.69E-05	2.21E-05	2.72E-04	8.42E-05	3.60E-05
Mg	4.57E-03	4.20E-04	1.12E-04	3.64E-03	6.16E-04	1.26E-04	6.24E-03	3.77E-04	1.10E-04	4.82E-03	4.71E-04	1.16E-04
Ni	1.36E-03	7.77E-05	5.74E-05	9.86E-04	6.04E-05	4.25E-05	1.02E-03	4.19E-05	1.12E-04	1.12E-03	6.00E-05	7.06E-05
Zn	3.37E+00	5.02E-03	3.21E-03	2.93E+00	5.78E-03	1.59E-03	2.55E+00	3.47E-03	1.26E-03	2.95E+00	4.76E-03	2.02E-03
Cd	3.25E-05	5.03E-05	7.02E-06	1.08E-05	1.46E-05	5.98E-06	9.70E-06	1.36E-05	4.84E-06	1.77E-05	2.61E-05	5.95E-06
Pb	3.01E-04	3.17E-04	2.28E-05	1.84E-04	7.54E-05	1.67E-05	1.15E-04	2.14E-05	1.64E-05	2.00E-04	1.38E-04	1.87E-05
Total Detected	3.37E+00	6.07E-03	3.55E-03	2.94E+00	6.65E-03	1.93E-03	2.56E+00	3.98E-03	1.64E-03	2.96E+00	5.57E-03	2.37E-03
Metals (lb/lb rubber removed)												
Cr	6.80E-06	4.78E-07	1.49E-06	4.26E-06	5.53E-07	1.67E-06	4.44E-06	3.72E-07	2.04E-06	5.17E-06	4.67E-07	1.73E-06
Cu	5.51E-06	2.32E-06	7.08E-07	3.42E-06	9.80E-07	6.04E-07	4.25E-06	6.82E-07	4.08E-07	4.39E-06	1.33E-06	5.73E-07
Mg	6.95E-05	6.39E-06	1.70E-06	5.60E-05	9.46E-06	1.93E-06	1.15E-04	6.97E-06	2.04E-06	8.02E-05	7.61E-06	1.89E-06
Ni	2.08E-05	1.18E-06	8.73E-07	1.52E-05	9.29E-07	6.53E-07	1.89E-05	7.74E-07	2.07E-06	1.83E-05	9.62E-07	1.20E-06
Zn	5.12E-02	7.65E-05	4.88E-05	4.51E-02	8.89E-05	2.44E-05	4.71E-02	6.41E-05	2.34E-05	4.78E-02	7.65E-05	3.22E-05
Cd	4.95E-07	7.65E-07	1.07E-07	1.65E-07	2.24E-07	9.19E-08	1.79E-07	2.50E-07	8.94E-08	2.80E-07	4.13E-07	9.60E-08
Pb	4.58E-06	4.83E-06	3.48E-07	2.83E-06	1.16E-06	2.57E-07	2.13E-06	3.94E-07	3.04E-07	3.18E-06	2.13E-06	3.03E-07
Total Detected	5.13E-02	9.24E-05	5.40E-05	4.52E-02	1.02E-04	2.96E-05	4.72E-02	7.35E-05	3.03E-05	4.79E-02	8.94E-05	3.80E-05

* Blank corrected

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TABLE F.4-6
BELT GRINDING POM SUMMARY

	Run-1			Run-2			Run-3			AVERAGE		
	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out
POM- (mg)*	13.8	2.7	0.9	11.2	26.4	10.7	2.5	21.2	9.9	9.2	16.8	7.2
Sample Volume (dscf)	81.937	85.65	94.993	84.712	84.518	93.326	83.308	86.369	95.83	83.32	85.51	94.72
POM-(mg/m³)	5.9	1.1	0.3	4.7	11.0	4.0	1.1	8.7	3.6	3.9	6.9	2.7
Flowrate (dscfm)	3,575	4,157	4,921	3,693	4,271	4,905	3,625	4,132	4,997	3,631	4,187	4,941
POM (lb/hr)	7.96E-02	1.73E-02	6.17E-03	6.46E-02	1.76E-01	7.44E-02	1.44E-02	1.34E-01	6.83E-02	5.29E-02	1.09E-01	4.96E-02
Run Time (min)	120	120	120	120	120	120	120	120	120	120	120	120
Rubber removed (lbs)	131.4	131.4	131.4	130.1	130.1	130.1	108.3	108.3	108.3	123.3	123.3	123.3
POM (lb/lb rubber removed)	1.21E-03	2.64E-04	9.39E-05	9.93E-04	2.71E-03	1.14E-03	2.66E-04	2.48E-03	1.26E-03	8.24E-04	1.82E-03	8.33E-04

* - Blank corrected.

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TABLE F.4-7
BELT GRINDING PARTICULATE MATTER SUMMARY

	Run-1			Run-2			Run-3			AVERAGE		
Rubber Removed During Test Run (lbs)	131.4			130.1			108.3			123.3		
	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out	Cyc-In	ESP-In	ESP-Out
PM- (mg)	14,854.2	150.2	4.3	12,328.5	119.9	3.6	10,797.0	68.7	3.1	12,659.9	112.9	3.7
Sample Volume (dscf)	84.628	82.262	81.732	82.608	74.142	80.436	82.053	82.656	85.42	83.10	79.69	82.53
Flowrate (dscfm)	3,620	4,113	3,832	3,682	3,663	3,825	3,634	4,193	4,072	3,645	3,990	3,910
PM- (grain/dscf)	2.7087	0.0282	0.0008	2.3031	0.0250	0.0007	2.0306	0.0128	0.0006	2.3475	0.0220	0.0007
PM- (mg/m³)	6197.9	64.5	1.86	5269.8	57.1	1.58	4646.4	29.3	1.3	5371.4	50.3	1.6
PM (lb/hr)	84.047	0.993	0.027	72.686	0.784	0.023	63.252	0.461	0.020	73.328	0.746	0.023
Run Time (min)	120	120	120	120	120	120	120	120	120	120	120	120
PM (lb/lb rubber removed)	1.28E+00	1.51E-02	4.06E-04	1.12E+00	1.20E-02	3.48E-04	1.17E+00	8.51E-03	3.61E-04	1.19E+00	1.19E-02	3.72E-04

TRC

SECTION G

WARMUP MILL

G.1 Warmup Mill No. 1 (Engineered Products)
G.2 Warmup Mill No. 2 (Tires)

TRC

Section G.1

Warmup Mill No. 1

(Engineered Products)

TRC

Section G.1

Warmup Mill No. 1

(Engineered Products)

Table Number	Title	No. of Pages
G.1-1	Warmup Mill 1 Summary Table	1
G.1-2	Warmup Mill 1 Speciated Semivolatiles	6
G.1-3	Warmup Mill 1 Speciated Volatiles	6
G.1-4	Warmup Mill 1 Sulfur Summary	1
G.1-5	Warmup Mill 1 POM Train Results	1

TRC

Table G.1-1. Warmup Mill 1 Summary Table

	Compound #12			
	Run 1	Run 2	Run 3	Average
Run Time (min)	95.0	103.0	111.0	103.0
LinearYards	1105	1114	1165	1128
Yards ² (yd²)	1656	1671	1748	1692
Lbs rubber/yd²	1.097	0.695	1.102	0.965
Total Rubber (lbs/hr)	1048.27	676.31	1041.08	921.89
Total VOC (ppm/run)	3.5	3.1	2.9	3.2
Total VOC (lbs/hr)	5.07E-04	4.19E-04	3.99E-04	4.42E-04
Total VOC (lbs/lb rubber)	7.49E-07	4.00E-06	3.84E-07	1.71E-06
Standard Deviation (lbs/lb rubber)	4.38E-07	2.91E-07	4.64E-07	3.98E-07
Speciated Total Semi Vol (µg/m³) - Detected	95.07	58.45	102.92	85.48
Speciated Total Semi Vol (lbs/hr) - Detected	7.12E-06	4.38E-06	8.10E-06	6.53E-06
Speciated Total Semi Vol (lbs/lb rubber) - Detected	6.79E-09	6.47E-09	7.78E-09	7.02E-09
Speciated Total Semi Vol (lbs/lb rubber) - with non-detects	< 1.05E-08	< 1.49E-08	< 1.19E-08	< 1.24E-08
Speciated Total Vol. (µg/m³) - Detected	6904.65	11740.59	11861.33	10168.86
Speciated Total Vol. (lbs/hr) - Detected	5.17E-04	9.24E-04	9.71E-04	8.04E-04
Speciated Total Vol. (lbs/lb rubber) - Detected	4.93E-07	1.37E-06	9.33E-07	9.31E-07
Speciated Total Vol. (lbs/lb rubber) - with non-detects	< 6.68E-07	< 1.65E-06	< 1.10E-06	< 1.14E-06
Total Sulfur (µg/m³) - Detected	1940.0	1410.0	1730.0	1693.3
Total Sulfur (lbs/hr) - Detected	1.45E-04	1.11E-04	1.30E-04	1.29E-04
Total Sulfur (lbs/lb rubber) - Detected	1.39E-07	1.64E-07	1.24E-07	1.42E-07
Total Sulfur (lbs/lb rubber) - with non-detects	< 1.55E-07	< 1.91E-07	< 1.41E-07	< 1.62E-07
POM (mg/m³)	0.14	1.07	1.36	0.86
POM (lbs/hr)	1.08E-05	8.43E-05	1.02E-04	6.57E-05
POM (lbs/lb rubber)	1.03E-08	1.25E-07	9.80E-08	7.76E-08

TRC

Table G.1-2. Warmup Mill 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Average
Speciated Semivolatiles (µg/m³)					
Pyridine	110-86-1	< 0.39	< 0.71	< 0.54	< 0.54
Phenol	108-95-2	7.30	6.87	10.78	8.32
bis(2-Chloroethyl)ether	111-44-4	< 0.39	< 0.69	< 0.52	< 0.53
2-Chlorophenol	95-57-8	< 0.34	< 0.55	< 0.42	< 0.44
1,3-Dichlorobenzene	541-73-1	< 0.30	< 0.47	< 0.36	< 0.38
1,4-Dichlorobenzene	106-46-7	< 0.30	< 0.48	< 0.36	< 0.38
1,2-Dichlorobenzene	95-50-1	< 0.33	< 0.52	< 0.39	< 0.41
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.29	< 0.58	< 0.44	< 0.44
Benzyl alcohol	100-51-6	0.37	< 1.02	0.77	< 0.72
2-Methylphenol	95-48-7	0.32	0.19	0.33	0.28
3/4-Methylphenol	108-39-4/106-44-5	0.49	0.26	< 0.51	< 0.42
N-Nitroso-di-n-propylamine	621-64-7	< 0.61	< 1.01	< 0.77	< 0.80
Hexachloroethane	67-72-1	< 0.71	< 1.13	< 0.86	< 0.90
Nitrobenzene	98-95-3	< 0.39	< 0.62	< 0.45	< 0.49
Isophorone	78-59-1	< 0.22	< 0.34	< 0.25	< 0.27
2-Nitrophenol	88-75-5	< 0.73	< 1.05	< 0.76	< 0.85
2,4-Dimethylphenol	105-67-9	< 0.49	< 0.69	< 0.50	< 0.56
bis(2-Chloroethoxy)methane	111-91-1	< 0.34	< 0.57	< 0.42	< 0.44
Benzoic acid	65-85-0	48.12	5.77	9.00	20.96
2,4-Dichlorophenol	120-83-2	< 0.43	< 0.70	< 0.51	< 0.55
1,2,4-Trichlorobenzene	120-82-1	< 0.39	< 0.59	< 0.43	< 0.47
Naphthalene	91-20-3	2.74	3.51	3.67	3.30
4-Chloroaniline	106-47-8	< 0.33	< 0.53	< 0.39	< 0.41
Hexachlorobutadiene	87-68-3	< 0.67	< 1.00	< 0.73	< 0.80
4-Chloro-3-methylphenol	59-50-7	< 0.55	< 0.79	< 0.57	< 0.64
2-Methylnaphthalene	91-57-6	1.76	1.42	1.95	1.71
Hexachlorocyclopentadiene	77-47-4	< 0.74	< 1.25	< 0.86	< 0.95
2,4,6-Trichlorophenol	88-06-2	< 0.59	< 0.95	< 0.65	< 0.73
2,4,5-Trichlorophenol	95-95-4	< 0.58	< 0.90	< 0.62	< 0.70
2-Chloronaphthalene	91-58-7	< 0.22	< 0.34	< 0.24	< 0.27
2-Nitroaniline	88-74-4	< 0.89	< 1.27	< 0.87	< 1.01
Dimethylphthalate	131-11-3	< 0.21	< 0.29	< 0.20	< 0.23
2,6-Dinitrotoluene	606-20-2	< 0.93	< 1.17	< 0.80	< 0.97
2,4-Dinitrotoluene	121-14-2	< 0.74	< 0.88	< 0.60	< 0.74
Acenaphthylene	208-96-8	< 0.14	< 0.21	< 0.15	< 0.16
3-Nitroaniline	99-09-2	< 0.83	< 1.20	< 0.82	< 0.95
Acenaphthene	83-32-9	< 0.24	< 0.37	< 0.25	< 0.29
2,4-Dinitrophenol	105-67-9	< 2.68	< 3.71	< 2.53	< 2.97
4-Nitrophenol	100-02-7	< 1.99	< 2.81	< 1.92	< 2.24
Dibenzofuran	132-64-9	< 0.16	< 0.24	0.90	< 0.43
Diethylphthalate	84-66-2	1.22	0.88	0.86	0.98
4-Chlorophenyl-phenylether	70005-72-3	< 0.43	< 0.66	< 0.45	< 0.52
Fluorene	86-73-7	0.50	0.52	1.58	0.87
4-Nitroaniline	100-01-6	< 0.79	< 1.15	< 0.79	< 0.91
4,6-Dinitro-2-methylphenol	534-52-1	< 1.40	< 1.50	< 1.13	< 1.34
4-Bromophenyl-phenylether	101-55-3	< 0.74	< 0.93	< 0.70	< 0.79
Hexachlorobenzene	118-74-1	< 0.65	< 0.75	< 0.56	< 0.65
Pentachlorophenol	87-86-5	< 0.85	< 1.04	< 0.77	< 0.89
Phenanthrene	85-01-8	0.78	0.88	7.17	2.94
Anthracene	120-12-7	< 0.16	< 0.18	< 0.14	< 0.16
Di-n-butylphthalate	84-74-2	2.46	2.33	3.07	2.62
Fluoranthene	206-44-0	0.09	< 0.14	< 0.10	< 0.11
Pyrene	129-00-0	0.21	0.34	2.08	0.88
Butylbenzylphthalate	85-68-7	0.86	0.80	0.66	0.77
3,3'-Dichlorobenzidine	91-94-1	< 0.43	< 0.55	< 0.45	< 0.48
bis(2-Ethylhexyl)phthalate	117-81-7	20.25	20.82	6.35	15.80
Benzo(a)anthracene	56-55-3	< 0.15	< 0.18	< 0.15	< 0.16

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Table G.1-2. Warmup Mill 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Average
Speciated Semivolatiles (µg/m³)					
Chrysene	218-01-9	< 0.16	< 0.19	< 0.16	< 0.17
Di-n-octylphthalate	117-84-0	0.28	0.10	0.28	0.22
Benzo(b)fluoranthene	205-99-2	< 0.13	< 0.16	< 0.13	< 0.14
Benzo(k)fluoranthene	207-08-9	< 0.14	< 0.16	< 0.13	< 0.15
Benzo(a)pyrene	50-32-8	< 0.14	< 0.17	< 0.14	< 0.15
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.13	< 0.16	< 0.13	< 0.14
Dibenz(a,h)anthracene	53-90-3	< 0.16	< 0.21	< 0.17	< 0.18
Benzo(g,h,i)perylene	191-24-2	< 0.13	< 0.18	< 0.15	< 0.15
n-Nitrosodimethylamine	62-75-9	< 0.59	< 1.03	< 0.79	< 0.80
Cumene	98-82-8	0.24	0.23	0.42	0.30
Aniline	62-53-3	1.32	< 0.40	7.58	< 3.10
Benzyl Chloride	100-44-7	< 0.25	< 0.36	< 0.27	< 0.29
Acetophenone	98-86-2	3.02	3.30	4.45	3.59
n-Nitrosomorpholine	59-89-2	< 0.67	< 1.00	< 0.76	< 0.81
o-Toluidine	95-53-4	< 0.31	< 0.47	< 0.36	< 0.38
N,N-Dimethylaniline	121-69-7	< 0.29	< 0.43	< 0.31	< 0.35
1,2-Dibromo-3-chloropropane	96-12-8	< 0.72	< 1.06	< 0.80	< 0.86
o-Anisidine	90-04-0	< 0.54	< 0.78	< 0.57	< 0.63
1,4-Phenylenediamine	106-50-3	< 0.67	< 1.21	< 0.88	< 0.92
N,N-Diethylaniline	91-66-7	< 0.25	< 0.34	< 0.26	< 0.28
a,a,a-Trichlorotoluene	98-07-7	< 0.36	< 0.49	< 0.36	< 0.40
Hydroquinone	123-31-9	< 0.69	< 1.18	< 0.86	< 0.91
2-Chloroacetophenone	1341-24-8	< 0.23	< 0.36	< 0.26	< 0.28
Biphenyl	92-52-4	1.10	0.93	1.37	1.13
Trifluralin	1582-09-8	< 1.31	< 1.60	< 1.09	< 1.33
4-Aminobiphenyl	92-67-1	< 0.24	< 0.27	2.47	< 0.99
Pentachloronitrobenzene	82-68-8	< 2.40	< 2.36	< 1.76	< 2.17
4-Nitrobiphenyl	92-93-3	< 0.57	< 0.53	< 0.40	< 0.50
Benzidine	92-87-5	< 0.27	< 0.44	< 0.36	< 0.36
4,4'-Methylenedianiline	101-77-9	< 0.58	< 0.68	< 0.56	< 0.61
Dimethylaminoazobenzene	60-11-7	< 0.48	< 0.51	< 0.42	< 0.47
3,3'-Dimethylbenzidine	119-93-7	< 0.28	< 0.31	< 0.25	< 0.28
3,3'-Dimethoxybenzidine	119-90-4	< 0.87	< 0.92	< 0.76	< 0.85
Methylene bis-chloroaniline	101-14-4	< 0.96	< 1.10	< 0.91	< 0.99
3-Furaldehyde	498-60-2	< 0.75	< 1.01	< 0.76	< 0.84
2-Furaldehyde	98-01-1	0.00	0.18	0.17	0.11
Cyclohexylamine	108-91-8	< 0.99	< 0.62	< 0.47	< 0.69
N-Nitrosodiethylamine	55-18-5	< 0.83	< 1.33	< 1.00	< 1.05
Cyclohexanone	108-94-1	0.35	1.78	8.20	3.44
1,3-Cyclooctadiene	1700-10-3	< 0.48	< 0.68	< 0.52	< 0.56
1,5-Cyclooctadiene	111-78-4	< 1.08	< 1.58	< 1.20	< 1.29
Camphene	79-92-5	< 0.53	< 0.77	0.80	< 0.70
Benzaldehyde	100-52-7	0.00	1.53	1.92	1.15
Benzonitrile	100-47-0	0.00	< 0.34	0.18	< 0.17
Isooctanol	26952-21-6	< 4.27	< 7.19	< 5.45	< 5.64
1,2,4-Trimethylbenzene	95-63-6	1.29	1.46	2.03	1.59
3-Methylstyrene	100-80-1	< 0.34	< 0.51	< 0.38	< 0.41
4-Methylstyrene	622-97-9	< 0.35	< 0.53	< 0.40	< 0.43
4-Chlorostyrene	1073-67-2	0.00	0.25	0.33	0.20
1-Dodecene	112-41-4	< 2.08	< 3.05	< 2.23	< 2.45
Phthalimide	85-41-6	< 1.52	< 2.54	< 1.74	< 1.94
Diphenylamine	122-39-4	0.00	4.11	23.57	9.23
Total Detected		95.07	58.45	102.92	85.48
Total with non-detects		< 147.60	< 134.36	< 157.01	< 146.32

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Table G.1-2. Warmup Mill 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Average
Speciated Semivolatiles (lb/hr)					
Pyridine	110-86-1	< 2.91E-08	< 5.30E-08	< 4.23E-08	< 4.15E-08
Phenol	108-95-2	5.47E-07	5.15E-07	8.48E-07	6.37E-07
bis(2-Chloroethyl)ether	111-44-4	< 2.91E-08	< 5.16E-08	< 4.09E-08	< 4.05E-08
2-Chlorophenol	95-57-8	< 2.58E-08	< 4.09E-08	< 3.28E-08	< 3.31E-08
1,3-Dichlorobenzene	541-73-1	< 2.24E-08	< 3.55E-08	< 2.81E-08	< 2.87E-08
1,4-Dichlorobenzene	106-46-7	< 2.24E-08	< 3.60E-08	< 2.86E-08	< 2.90E-08
1,2-Dichlorobenzene	95-50-1	< 2.46E-08	< 3.89E-08	< 3.09E-08	< 3.15E-08
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.18E-08	< 4.33E-08	< 3.47E-08	< 3.33E-08
Benzyl alcohol	100-51-6	2.80E-08	< 7.64E-08	6.04E-08	< 5.49E-08
2-Methylphenol	95-48-7	2.41E-08	1.46E-08	2.57E-08	2.15E-08
3/4-Methylphenol	108-39-4/106-44-5	3.64E-08	1.95E-08	< 4.00E-08	< 3.19E-08
N-Nitroso-di-n-propylamine	621-64-7	< 4.59E-08	< 7.59E-08	< 6.04E-08	< 6.07E-08
Hexachloroethane	67-72-1	< 5.32E-08	< 8.46E-08	< 6.76E-08	< 6.85E-08
Nitrobenzene	98-95-3	< 2.91E-08	< 4.62E-08	< 3.57E-08	< 3.70E-08
Isophorone	78-59-1	< 1.62E-08	< 2.58E-08	< 2.00E-08	< 2.07E-08
2-Nitrophenol	88-75-5	< 5.49E-08	< 7.83E-08	< 6.00E-08	< 6.44E-08
2,4-Dimethylphenol	105-67-9	< 3.69E-08	< 5.16E-08	< 3.95E-08	< 4.27E-08
bis(2-Chloroethoxy)methane	111-91-1	< 2.58E-08	< 4.28E-08	< 3.28E-08	< 3.38E-08
Benzoic acid	65-85-0	3.61E-06	4.32E-07	7.08E-07	1.58E-06
2,4-Dichlorophenol	120-83-2	< 3.25E-08	< 5.25E-08	< 4.00E-08	< 4.17E-08
1,2,4-Trichlorobenzene	120-82-1	< 2.91E-08	< 4.43E-08	< 3.38E-08	< 3.57E-08
Naphthalene	91-20-3	2.05E-07	2.63E-07	2.88E-07	2.52E-07
4-Chloroaniline	106-47-8	< 2.46E-08	< 3.94E-08	< 3.05E-08	< 3.15E-08
Hexachlorobutadiene	87-68-3	< 5.04E-08	< 7.49E-08	< 5.76E-08	< 6.10E-08
4-Chloro-3-methylphenol	59-50-7	< 4.09E-08	< 5.89E-08	< 4.52E-08	< 4.83E-08
2-Methylnaphthalene	91-57-6	1.32E-07	1.06E-07	1.53E-07	1.30E-07
Hexachlorocyclopentadiene	77-47-4	< 5.54E-08	< 9.39E-08	< 6.76E-08	< 7.23E-08
2,4,6-Trichlorophenol	88-06-2	< 4.42E-08	< 7.15E-08	< 5.14E-08	< 5.57E-08
2,4,5-Trichlorophenol	95-95-4	< 4.31E-08	< 6.76E-08	< 4.85E-08	< 5.31E-08
2-Chloronaphthalene	91-58-7	< 1.68E-08	< 2.58E-08	< 1.86E-08	< 2.04E-08
2-Nitroaniline	88-74-4	< 6.66E-08	< 9.53E-08	< 6.85E-08	< 7.68E-08
Dimethylphthalate	131-11-3	< 1.57E-08	< 2.19E-08	< 1.57E-08	< 1.78E-08
2,6-Dinitrotoluene	606-20-2	< 7.00E-08	< 8.75E-08	< 6.28E-08	< 7.34E-08
2,4-Dinitrotoluene	121-14-2	< 5.54E-08	< 6.61E-08	< 4.76E-08	< 5.64E-08
Acenaphthylene	208-96-8	< 1.06E-08	< 1.56E-08	< 1.14E-08	< 1.25E-08
3-Nitroaniline	99-09-2	< 6.21E-08	< 9.00E-08	< 6.47E-08	< 7.23E-08
Acenaphthene	83-32-9	< 1.79E-08	< 2.77E-08	< 2.00E-08	< 2.19E-08
2,4-Dinitrophenol	105-67-9	< 2.00E-07	< 2.78E-07	< 1.99E-07	< 2.26E-07
4-Nitrophenol	100-02-7	< 1.49E-07	< 2.11E-07	< 1.51E-07	< 1.70E-07
Dibenzofuran	132-64-9	< 1.23E-08	< 1.80E-08	7.04E-08	< 3.36E-08
Diethylphthalate	84-66-2	9.13E-08	6.57E-08	6.76E-08	7.48E-08
4-Chlorophenyl-phenylether	70005-72-3	< 3.25E-08	< 4.96E-08	< 3.57E-08	< 3.93E-08
Fluorene	86-73-7	3.75E-08	3.89E-08	1.24E-07	6.69E-08
4-Nitroaniline	100-01-6	< 5.93E-08	< 8.61E-08	< 6.19E-08	< 6.91E-08
4,6-Dinitro-2-methylphenol	534-52-1	< 1.05E-07	< 1.12E-07	< 8.85E-08	< 1.02E-07
4-Bromophenyl-phenylether	101-55-3	< 5.54E-08	< 6.96E-08	< 5.47E-08	< 5.99E-08
Hexachlorobenzene	118-74-1	< 4.87E-08	< 5.59E-08	< 4.38E-08	< 4.95E-08
Pentachlorophenol	87-86-5	< 6.38E-08	< 7.78E-08	< 6.09E-08	< 6.75E-08
Phenanthrene	85-01-8	5.82E-08	6.57E-08	5.64E-07	2.29E-07
Anthracene	120-12-7	< 1.23E-08	< 1.36E-08	< 1.09E-08	< 1.23E-08
Di-n-butylphthalate	84-74-2	1.84E-07	1.75E-07	2.41E-07	2.00E-07
Fluoranthene	206-44-0	6.72E-09	< 1.07E-08	< 8.09E-09	< 8.50E-09
Pyrene	129-00-0	1.57E-08	2.53E-08	1.64E-07	6.82E-08
Butylbenzylphthalate	85-68-7	6.44E-08	6.03E-08	5.19E-08	5.89E-08
3,3'-Dichlorobenzidine	91-94-1	< 3.25E-08	< 4.09E-08	< 3.52E-08	< 3.62E-08
bis(2-Ethylhexyl)phthalate	117-81-7	1.52E-06	1.56E-06	4.99E-07	1.19E-06
Benzo(a)anthracene	56-55-3	< 1.12E-08	< 1.36E-08	< 1.14E-08	< 1.21E-08

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Table G.1-2. Warmup Mill 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Average
Speciated Semivolatiles (lb/hr)					
Chrysene	218-01-9	< 1.23E-08	< 1.46E-08	< 1.28E-08	< 1.33E-08
Di-n-octylphthalate	117-84-0	2.07E-08	7.30E-09	2.24E-08	1.68E-08
Benzo(b)fluoranthene	205-99-2	< 1.01E-08	< 1.17E-08	< 9.99E-09	< 1.06E-08
Benzo(k)fluoranthene	207-08-9	< 1.06E-08	< 1.22E-08	< 1.05E-08	< 1.11E-08
Benzo(a)pyrene	50-32-8	< 1.06E-08	< 1.26E-08	< 1.09E-08	< 1.14E-08
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.52E-09	< 1.22E-08	< 9.99E-09	< 1.06E-08
Dibenz(a,h)anthracene	53-90-3	< 1.18E-08	< 1.56E-08	< 1.33E-08	< 1.35E-08
Benzo(g,h,i)perylene	191-24-2	< 1.01E-08	< 1.36E-08	< 1.14E-08	< 1.17E-08
n-Nitrosodimethylamine	62-75-9	< 4.42E-08	< 7.73E-08	< 6.19E-08	< 6.11E-08
Cumene	98-82-8	1.79E-08	1.75E-08	3.28E-08	2.28E-08
Aniline	62-53-3	9.91E-08	< 3.02E-08	5.96E-07	< 2.42E-07
Benzyl Chloride	100-44-7	< 1.85E-08	< 2.68E-08	< 2.14E-08	< 2.22E-08
Acetophenone	98-86-2	2.26E-07	2.47E-07	3.50E-07	2.74E-07
n-Nitrosomorpholine	59-89-2	< 4.98E-08	< 7.49E-08	< 5.95E-08	< 6.14E-08
o-Toluidine	95-53-4	< 2.35E-08	< 3.55E-08	< 2.86E-08	< 2.92E-08
N,N-Dimethylaniline	121-69-7	< 2.18E-08	< 3.26E-08	< 2.47E-08	< 2.64E-08
1,2-Dibromo-3-chloropropane	96-12-8	< 5.43E-08	< 7.98E-08	< 6.33E-08	< 6.58E-08
o-Anisidine	90-04-0	< 4.03E-08	< 5.84E-08	< 4.47E-08	< 4.78E-08
1,4-Phenylenediamine	106-50-3	< 5.04E-08	< 9.05E-08	< 6.90E-08	< 6.99E-08
N,N-Diethylaniline	91-66-7	< 1.85E-08	< 2.58E-08	< 2.05E-08	< 2.16E-08
a,a,a-Trichlorotoluene	98-07-7	< 2.69E-08	< 3.65E-08	< 2.81E-08	< 3.05E-08
Hydroquinone	123-31-9	< 5.21E-08	< 8.85E-08	< 6.80E-08	< 6.95E-08
2-Chloroacetophenone	1341-24-8	< 1.74E-08	< 2.68E-08	< 2.05E-08	< 2.15E-08
Biphenyl	92-52-4	8.23E-08	6.96E-08	1.08E-07	8.66E-08
Trifluralin	1582-09-8	< 9.80E-08	< 1.20E-07	< 8.61E-08	< 1.01E-07
4-Aminobiphenyl	92-67-1	< 1.79E-08	< 1.99E-08	1.94E-07	< 7.73E-08
Pentachloronitrobenzene	82-68-8	< 1.80E-07	< 1.77E-07	< 1.38E-07	< 1.65E-07
4-Nitrobiphenyl	92-93-3	< 4.25E-08	< 3.99E-08	< 3.14E-08	< 3.79E-08
Benzidine	92-87-5	< 2.02E-08	< 3.31E-08	< 2.86E-08	< 2.73E-08
4,4'-Methylenedianiline	101-77-9	< 4.37E-08	< 5.11E-08	< 4.38E-08	< 4.62E-08
Dimethylaminoazobenzene	60-11-7	< 3.58E-08	< 3.79E-08	< 3.28E-08	< 3.55E-08
3,3'-Dimethylbenzidine	119-93-7	< 2.07E-08	< 2.29E-08	< 2.00E-08	< 2.12E-08
3,3'-Dimethoxybenzidine	119-90-4	< 6.55E-08	< 6.86E-08	< 5.95E-08	< 6.45E-08
Methylene bis-chloroaniline	101-14-4	< 7.22E-08	< 8.27E-08	< 7.19E-08	< 7.56E-08
3-Furaldehyde	498-60-2	< 5.65E-08	< 7.54E-08	< 6.00E-08	< 6.40E-08
2-Furaldehyde	98-01-1	0.00E+00	1.31E-08	1.33E-08	8.82E-09
Cyclohexylamine	108-91-8	< 7.39E-08	< 4.67E-08	< 3.71E-08	< 5.26E-08
N-Nitrosodiethylamine	55-18-5	< 6.21E-08	< 9.97E-08	< 7.90E-08	< 8.03E-08
Cyclohexanone	108-94-1	2.63E-08	1.33E-07	6.45E-07	2.68E-07
1,3-Cyclooctadiene	1700-10-3	< 3.58E-08	< 5.11E-08	< 4.09E-08	< 4.26E-08
1,5-Cyclooctadiene	111-78-4	< 8.12E-08	< 1.19E-07	< 9.47E-08	< 9.82E-08
Camphene	79-92-5	< 3.97E-08	< 5.79E-08	6.33E-08	< 5.36E-08
Benzaldehyde	100-52-7	0.00E+00	1.15E-07	1.51E-07	8.85E-08
Benzonitrile	100-47-0	0.00E+00	< 2.53E-08	1.43E-08	< 1.32E-08
Isooctanol	26952-21-6	< 3.20E-07	< 5.38E-07	< 4.29E-07	< 4.29E-07
1,2,4-Trimethylbenzene	95-63-6	9.69E-08	1.09E-07	1.59E-07	1.22E-07
3-Methylstyrene	100-80-1	< 2.52E-08	< 3.79E-08	< 3.00E-08	< 3.10E-08
4-Methylstyrene	622-97-9	< 2.63E-08	< 3.94E-08	< 3.14E-08	< 3.24E-08
4-Chlorostyrene	1073-67-2	0.00E+00	1.90E-08	2.62E-08	1.50E-08
1-Dodecene	112-41-4	< 1.56E-07	< 2.29E-07	< 1.75E-07	< 1.87E-07
Phthalimide	85-41-6	< 1.14E-07	< 1.91E-07	< 1.37E-07	< 1.47E-07
Diphenylamine	122-39-4	0.00E+00	3.08E-07	1.85E-06	7.21E-07
Total Detected		7.12E-06	4.38E-06	8.10E-06	6.53E-06
Total with non-detects		< 1.11E-05	< 1.01E-05	< 1.24E-05	< 1.12E-05

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Table G.1-2. Warmup Mill 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Average
Speciated Semivolatiles (lb/lb rubber)					
Pyridine	110-86-1	< 2.78E-11	< 7.84E-11	< 4.07E-11	< 4.89E-11
Phenol	108-95-2	5.22E-10	7.61E-10	8.15E-10	6.99E-10
bis(2-Chloroethyl)ether	111-44-4	< 2.78E-11	< 7.62E-11	< 3.93E-11	< 4.78E-11
2-Chlorophenol	95-57-8	< 2.46E-11	< 6.04E-11	< 3.15E-11	< 3.88E-11
1,3-Dichlorobenzene	541-73-1	< 2.14E-11	< 5.25E-11	< 2.70E-11	< 3.36E-11
1,4-Dichlorobenzene	106-46-7	< 2.14E-11	< 5.32E-11	< 2.74E-11	< 3.40E-11
1,2-Dichlorobenzene	95-50-1	< 2.35E-11	< 5.75E-11	< 2.97E-11	< 3.69E-11
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.08E-11	< 6.40E-11	< 3.34E-11	< 3.94E-11
Benzyl alcohol	100-51-6	2.67E-11	< 1.13E-10	5.80E-11	< 6.59E-11
2-Methylphenol	95-48-7	2.30E-11	2.16E-11	2.47E-11	2.31E-11
3/4-Methylphenol	108-39-4/106-44-5	3.47E-11	2.88E-11	< 3.84E-11	< 3.40E-11
N-Nitroso-di-n-propylamine	621-64-7	< 4.38E-11	< 1.12E-10	< 5.80E-11	< 7.13E-11
Hexachloroethane	67-72-1	< 5.07E-11	< 1.25E-10	< 6.49E-11	< 8.03E-11
Nitrobenzene	98-95-3	< 2.78E-11	< 6.83E-11	< 3.43E-11	< 4.35E-11
Isophorone	78-59-1	< 1.55E-11	< 3.81E-11	< 1.92E-11	< 2.43E-11
2-Nitrophenol	88-75-5	< 5.23E-11	< 1.16E-10	< 5.76E-11	< 7.52E-11
2,4-Dimethylphenol	105-67-9	< 3.52E-11	< 7.62E-11	< 3.79E-11	< 4.98E-11
bis(2-Chloroethoxy)methane	111-91-1	< 2.46E-11	< 6.33E-11	< 3.15E-11	< 3.98E-11
Benzoic acid	65-85-0	3.44E-09	6.39E-10	6.80E-10	1.59E-09
2,4-Dichlorophenol	120-83-2	< 3.10E-11	< 7.77E-11	< 3.84E-11	< 4.90E-11
1,2,4-Trichlorobenzene	120-82-1	< 2.78E-11	< 6.54E-11	< 3.25E-11	< 4.19E-11
Naphthalene	91-20-3	1.96E-10	3.88E-10	2.77E-10	2.87E-10
4-Chloroaniline	106-47-8	< 2.35E-11	< 5.83E-11	< 2.93E-11	< 3.70E-11
Hexachlorobutadiene	87-68-3	< 4.81E-11	< 1.11E-10	< 5.53E-11	< 7.14E-11
4-Chloro-3-methylphenol	59-50-7	< 3.90E-11	< 8.70E-11	< 4.34E-11	< 5.65E-11
2-Methylnaphthalene	91-57-6	1.26E-10	1.57E-10	1.47E-10	1.43E-10
Hexachlorocyclopentadiene	77-47-4	< 5.29E-11	< 1.39E-10	< 6.49E-11	< 8.55E-11
2,4,6-Trichlorophenol	88-06-2	< 4.22E-11	< 1.06E-10	< 4.94E-11	< 6.58E-11
2,4,5-Trichlorophenol	95-95-4	< 4.11E-11	< 1.00E-10	< 4.66E-11	< 6.26E-11
2-Chloronaphthalene	91-58-7	< 1.60E-11	< 3.81E-11	< 1.78E-11	< 2.40E-11
2-Nitroaniline	88-74-4	< 6.36E-11	< 1.41E-10	< 6.58E-11	< 9.01E-11
Dimethylphthalate	131-11-3	< 1.50E-11	< 3.24E-11	< 1.51E-11	< 2.08E-11
2,6-Dinitrotoluene	606-20-2	< 6.68E-11	< 1.29E-10	< 6.03E-11	< 8.55E-11
2,4-Dinitrotoluene	121-14-2	< 5.29E-11	< 9.78E-11	< 4.57E-11	< 6.55E-11
Acenaphthylene	208-96-8	< 1.01E-11	< 2.30E-11	< 1.10E-11	< 1.47E-11
3-Nitroaniline	99-09-2	< 5.93E-11	< 1.33E-10	< 6.22E-11	< 8.48E-11
Acenaphthene	83-32-9	< 1.71E-11	< 4.10E-11	< 1.92E-11	< 2.58E-11
2,4-Dinitrophenol	105-67-9	< 1.91E-10	< 4.11E-10	< 1.92E-10	< 2.64E-10
4-Nitrophenol	100-02-7	< 1.42E-10	< 3.11E-10	< 1.45E-10	< 2.00E-10
Dibenzofuran	132-64-9	< 1.17E-11	< 2.66E-11	6.76E-11	< 3.53E-11
Diethylphthalate	84-66-2	8.71E-11	9.71E-11	6.49E-11	8.30E-11
4-Chlorophenyl-phenylether	70005-72-3	< 3.10E-11	< 7.34E-11	< 3.43E-11	< 4.62E-11
Fluorene	86-73-7	3.58E-11	5.75E-11	1.19E-10	7.09E-11
4-Nitroaniline	100-01-6	< 5.66E-11	< 1.27E-10	< 5.94E-11	< 8.11E-11
4,6-Dinitro-2-methylphenol	534-52-1	< 1.00E-10	< 1.66E-10	< 8.50E-11	< 1.17E-10
4-Bromophenyl-phenylether	101-55-3	< 5.29E-11	< 1.03E-10	< 5.26E-11	< 6.94E-11
Hexachlorobenzene	118-74-1	< 4.65E-11	< 8.27E-11	< 4.20E-11	< 5.71E-11
Pentachlorophenol	87-86-5	< 6.09E-11	< 1.15E-10	< 5.85E-11	< 7.82E-11
Phenanthrene	85-01-8	5.55E-11	9.71E-11	5.42E-10	2.32E-10
Anthracene	120-12-7	< 1.17E-11	< 2.01E-11	< 1.05E-11	< 1.41E-11
Di-n-butylphthalate	84-74-2	1.76E-10	2.58E-10	2.32E-10	2.22E-10
Fluoranthene	206-44-0	6.41E-12	< 1.58E-11	< 7.77E-12	< 1.00E-11
Pyrene	129-00-0	1.50E-11	3.74E-11	1.57E-10	6.99E-11
Butylbenzylphthalate	85-68-7	6.14E-11	8.92E-11	4.98E-11	6.68E-11
3,3'-Dichlorobenzidine	91-94-1	< 3.10E-11	< 6.04E-11	< 3.38E-11	< 4.17E-11
bis(2-Ethylhexyl)phthalate	117-81-7	1.45E-09	2.31E-09	4.79E-10	1.41E-09
Benzo(a)anthracene	56-55-3	< 1.07E-11	< 2.01E-11	< 1.10E-11	< 1.39E-11

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Table G.1-2. Warmup Mill 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Average
Speciated Semivolatiles (lb/lb rubber)					
Chrysene	218-01-9	< 1.17E-11	< 2.16E-11	< 1.23E-11	< 1.52E-11
Di-n-octylphthalate	117-84-0	1.98E-11	1.08E-11	2.15E-11	1.73E-11
Benzo(b)fluoranthene	205-99-2	< 9.61E-12	< 1.73E-11	< 9.60E-12	< 1.22E-11
Benzo(k)fluoranthene	207-08-9	< 1.01E-11	< 1.80E-11	< 1.01E-11	< 1.27E-11
Benzo(a)pyrene	50-32-8	< 1.01E-11	< 1.87E-11	< 1.05E-11	< 1.31E-11
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.08E-12	< 1.80E-11	< 9.60E-12	< 1.22E-11
Dibenz(a,h)anthracene	53-90-3	< 1.12E-11	< 2.30E-11	< 1.28E-11	< 1.57E-11
Benzo(g,h,i)perylene	191-24-2	< 9.61E-12	< 2.01E-11	< 1.10E-11	< 1.36E-11
n-Nitrosodimethylamine	62-75-9	< 4.22E-11	< 1.14E-10	< 5.94E-11	< 7.20E-11
Cumene	98-82-8	1.71E-11	2.59E-11	3.15E-11	2.48E-11
Aniline	62-53-3	9.45E-11	< 4.46E-11	5.73E-10	< 2.37E-10
Benzyl Chloride	100-44-7	< 1.76E-11	< 3.96E-11	< 2.06E-11	< 2.59E-11
Acetophenone	98-86-2	2.16E-10	3.65E-10	3.36E-10	3.06E-10
n-Nitrosomorpholine	59-89-2	< 4.75E-11	< 1.11E-10	< 5.71E-11	< 7.18E-11
o-Toluidine	95-53-4	< 2.24E-11	< 5.25E-11	< 2.74E-11	< 3.41E-11
N,N-Dimethylaniline	121-69-7	< 2.08E-11	< 4.82E-11	< 2.38E-11	< 3.09E-11
1,2-Dibromo-3-chloropropane	96-12-8	< 5.18E-11	< 1.18E-10	< 6.08E-11	< 7.68E-11
o-Anisidine	90-04-0	< 3.85E-11	< 8.63E-11	< 4.30E-11	< 5.59E-11
1,4-Phenylenediamine	106-50-3	< 4.81E-11	< 1.34E-10	< 6.63E-11	< 8.27E-11
N,N-Diethylaniline	91-66-7	< 1.76E-11	< 3.81E-11	< 1.97E-11	< 2.51E-11
a,a,a-Trichlorotoluene	98-07-7	< 2.56E-11	< 5.39E-11	< 2.70E-11	< 3.55E-11
Hydroquinone	123-31-9	< 4.97E-11	< 1.31E-10	< 6.54E-11	< 8.20E-11
2-Chloroacetophenone	1341-24-8	< 1.66E-11	< 3.96E-11	< 1.97E-11	< 2.53E-11
Biphenyl	92-52-4	7.85E-11	1.03E-10	1.04E-10	9.50E-11
Trifluralin	1582-09-8	< 9.35E-11	< 1.77E-10	< 8.27E-11	< 1.18E-10
4-Aminobiphenyl	92-67-1	< 1.71E-11	< 2.95E-11	1.86E-10	< 7.77E-11
Pentachloronitrobenzene	82-68-8	< 1.71E-10	< 2.61E-10	< 1.33E-10	< 1.88E-10
4-Nitrobiphenyl	92-93-3	< 4.06E-11	< 5.90E-11	< 3.02E-11	< 4.32E-11
Benzidine	92-87-5	< 1.92E-11	< 4.89E-11	< 2.74E-11	< 3.19E-11
4,4'-Methylenedianiline	101-77-9	< 4.17E-11	< 7.55E-11	< 4.20E-11	< 5.31E-11
Dimethylaminoazobenzene	60-11-7	< 3.42E-11	< 5.61E-11	< 3.15E-11	< 4.06E-11
3,3'-Dimethylbenzidine	119-93-7	< 1.98E-11	< 3.38E-11	< 1.92E-11	< 2.43E-11
3,3'-Dimethoxybenzidine	119-90-4	< 6.25E-11	< 1.01E-10	< 5.71E-11	< 7.37E-11
Methylene bis-chloroaniline	101-14-4	< 6.89E-11	< 1.22E-10	< 6.90E-11	< 8.67E-11
3-Furaldehyde	498-60-2	< 5.39E-11	< 1.11E-10	< 5.76E-11	< 7.43E-11
2-Furaldehyde	98-01-1	0.00E+00	1.94E-11	1.28E-11	1.07E-11
Cyclohexylamine	108-91-8	< 7.05E-11	< 6.90E-11	< 3.57E-11	< 5.84E-11
N-Nitrosodiethylamine	55-18-5	< 5.93E-11	< 1.47E-10	< 7.59E-11	< 9.42E-11
Cyclohexanone	108-94-1	2.51E-11	1.97E-10	6.19E-10	2.80E-10
1,3-Cyclooctadiene	1700-10-3	< 3.42E-11	< 7.55E-11	< 3.93E-11	< 4.97E-11
1,5-Cyclooctadiene	111-78-4	< 7.74E-11	< 1.75E-10	< 9.10E-11	< 1.15E-10
Camphene	79-92-5	< 3.79E-11	< 8.56E-11	6.08E-11	< 6.14E-11
Benzaldehyde	100-52-7	0.00E+00	1.70E-10	1.45E-10	1.05E-10
Benzonitrile	100-47-0	0.00E+00	< 3.74E-11	1.37E-11	< 1.70E-11
Isooctanol	26952-21-6	< 3.05E-10	< 7.96E-10	< 4.12E-10	< 5.04E-10
1,2,4-Trimethylbenzene	95-63-6	9.24E-11	1.62E-10	1.53E-10	1.36E-10
3-Methylstyrene	100-80-1	< 2.40E-11	< 5.61E-11	< 2.88E-11	< 3.63E-11
4-Methylstyrene	622-97-9	< 2.51E-11	< 5.83E-11	< 3.02E-11	< 3.78E-11
4-Chlorostyrene	1073-67-2	0.00E+00	2.80E-11	2.51E-11	1.77E-11
1-Dodecene	112-41-4	< 1.49E-10	< 3.38E-10	< 1.68E-10	< 2.18E-10
Phthalimide	85-41-6	< 1.09E-10	< 2.82E-10	< 1.32E-10	< 1.74E-10
Diphenylamine	122-39-4	0.00E+00	4.55E-10	1.78E-09	7.45E-10
Total Detected		6.79E-09	6.47E-09	7.78E-09	7.02E-09
Total with non-detects		< 1.05E-08	< 1.49E-08	< 1.19E-08	< 1.24E-08

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Table G.1-3. Warmup Mill 1
Speciated Volatiles

		CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Avg.
Speciated Volatile (µg/m³)						
	1-Heptene	592-76-7	12.25	70.02	99.19	60.49
	1-Hexene	592-41-6	< 1.17	< 1.17	< 1.17	< 1.17
	1-Octene	111-60-0	< 1.17	< 1.17	< 1.17	< 1.17
	1-Pentene	109-67-1	15.75	12.25	14.30	14.10
1	1,1-Dichloroethene	00075-35-4	< 40.00	< 40.00	< 40.00	< 40.00
1	1,1-Dichloroethane	00075-34-3	< 40.00	< 40.00	< 40.00	< 40.00
1	1,1,1-Trichloroethane	00071-55-6	< 40.00	< 40.00	< 40.00	< 40.00
1	1,1,2-Trichloroethane	00079-00-5	< 40.00	< 40.00	< 40.00	< 40.00
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 40.00	< 40.00	< 40.00	< 40.00
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 80.00	< 80.00	< 80.00	< 80.00
1	1,2-Dibromoethane	00106-93-4	< 40.00	< 40.00	< 40.00	< 40.00
1	1,2-Dichlorobenzene	00095-50-1	< 40.00	< 40.00	< 40.00	< 40.00
1	1,2-Dichloroethane	00107-06-2	< 40.00	< 40.00	< 40.00	< 40.00
1	1,2-Dichloropropane	00078-87-5	< 40.00	< 40.00	< 40.00	< 40.00
	1,2,4-Trimethylbenzene	95-63-6	10.00	< 5.56	6.94	< 7.50
	1,3-Butadiene	106-99-0	< 1.13	< 1.13	< 1.13	< 1.13
1	1,3-Dichlorobenzene	00541-73-1	< 40.00	< 40.00	< 40.00	< 40.00
	1,3,5-Trimethylbenzene	108-67-8	< 5.56	14.44	< 5.56	< 8.52
1	1,4-Dichlorobenzene	00106-46-7	< 40.00	< 40.00	< 40.00	< 40.00
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	134.00	< 5.58	94.91	< 78.17
1	1,4-Dioxane	00123-91-1	< 160.00	< 160.00	< 160.00	< 160.00
1	2-Butanone	00078-93-3	< 80.00	< 80.00	< 80.00	< 80.00
1	2-Hexanone	00591-78-6	< 40.00	< 40.00	< 40.00	< 40.00
	2-Methyl-1-butene	563-46-2	< 1.17	< 1.17	< 1.17	< 1.17
	2-Methyl-2-butene	513-35-9	< 1.17	< 1.17	< 1.17	< 1.17
	2-Methyl-2-pentene	625-27-4	< 1.17	< 1.17	< 1.17	< 1.17
	2-Methylheptane	592-27-8	< 1.19	< 1.19	< 1.19	< 1.19
	2-Methylhexane	591-76-4	44.66	262.00	375.14	227.27
	2-Methylpentane	107-83-5	< 1.19	< 1.19	< 1.19	< 1.19
	2,2-Dimethylbutane	75-83-2	< 1.19	< 1.19	< 1.19	< 1.19
	2,2-Dimethylpropane	463-82-1	< 1.20	< 1.20	< 1.20	< 1.20
	2,3-Dimethylpentane	565-59-3	13.10	71.45	119.09	67.88
	2,3,4-Trimethylpentane	565-75-3	< 1.19	< 1.19	< 1.19	< 1.19
	2,4-Dimethylhexane	589-43-5	10.10	37.42	59.40	35.64
	3-Methylhexane	589-34-4	65.50	369.18	541.87	325.52
	3-Methylpentane	96-14-0	9.56	5.80	5.59	6.98
	4-Methyl-1-pentene	691-37-2	< 1.17	< 1.17	< 1.17	< 1.17
1	4-Methyl-2-pentanone	00108-10-1	< 40.00	< 40.00	40.00	< 40.00
1	Acetone	00067-64-1	48.00	35.00	43.00	42.00
1	Acetonitrile	01722-09-4	< 80.00	< 80.00	< 80.00	< 80.00
	Acetylene	74-86-2	9.21	4.87	8.66	7.58
1	Acrolein	00107-02-8	< 80.00	< 80.00	< 80.00	< 80.00
1	Acrylonitrile	00107-13-1	< 80.00	< 80.00	< 80.00	< 80.00
1	Allyl Chloride	00107-05-1	< 80.00	< 80.00	< 80.00	< 80.00
	a-Pinene	7785-70-8	< 1.13	< 1.13	< 1.13	< 1.13
	Benzene	71-43-2	7.58	1.84	3.95	4.46
1	Benzyl Chloride	00100-44-7	< 80.00	< 80.00	< 80.00	< 80.00
	b-Pinene	18172-67-3	20.97	< 5.67	14.17	< 13.60
1	Bromodichloromethane	00075-27-4	< 40.00	< 40.00	< 40.00	< 40.00
1	Bromoform	00075-25-2	< 40.00	< 40.00	< 40.00	< 40.00
1	Bromomethane	00074-83-9	< 40.00	< 40.00	< 40.00	< 40.00
1 2	C11-C12 Branched Alkane		1000.00	700.00	900.00	866.67
1 2	C9H10 Alkyl Substituted Benzene				300.00	100.00
1	Carbon Disulfide	00075-15-0	2400.00	1700.00	2200.00	2100.00
1	Carbon Tetrachloride	00056-23-5	< 40.00	< 40.00	< 40.00	< 40.00
1 2	Chloro-4-(1-Chloroethenyl)Cyclohexene		600.00	200.00	200.00	333.33
1 2	Chloro-5-(1-Chloroethenyl)Cyclohexene		500.00	200.00	200.00	300.00
1	Chlorobenzene	00108-90-7	< 40.00	< 40.00	< 40.00	< 40.00
1	Chlorodibromomethane	00124-48-1	< 40.00	< 40.00	< 40.00	< 40.00
1	Chloroethane	00075-00-3	< 40.00	< 40.00	< 40.00	< 40.00
1	Chloroform	00067-66-3	< 40.00	< 40.00	< 40.00	< 40.00
1	Chloromethane	00074-87-3	< 40.00	< 40.00	< 40.00	< 40.00
1	cis-1,2-Dichloroethene	00156-59-2	< 40.00	< 40.00	< 40.00	< 40.00
1	cis-1,3-Dichloropropene	10061-01-5	< 40.00	< 40.00	< 40.00	< 40.00

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Table G.1-3. Warmup Mill 1
Speciated Volatiles

		CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Avg.
	Speciated Volatile (µg/m³)					
	cis-2-Butene	590-18-1	< 1.17	< 1.17	< 1.17	< 1.17
	cis-2-Hexene	7688-21-3	< 1.17	< 1.17	< 1.17	< 1.17
	cis-2-Pentene	627-20-3	4.78	75.85	93.36	58.00
	Cumene	98-82-8	< 1.11	< 1.11	< 1.11	< 1.11
	Cyclohexane	110-82-7	3.33	< 1.17	< 1.17	< 1.89
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	< 1.30	< 1.30	< 1.30	< 1.30
	Cyclopentene	142-29-0	< 1.13	< 1.13	< 1.13	< 1.13
1	Dichlorodifluoromethane	00075-71-8	< 40.00	< 40.00	< 40.00	< 40.00
1	2 Dimethylpentane			200.00		66.67
	d-Limonene	5989-27-5	73.67	43.64	52.14	56.48
1	Epichlorohydrin	00106-89-8	< 80.00	< 80.00	< 80.00	< 80.00
	Ethane	74-84-0	118.83	40.65	30.96	63.48
1	2 Ethyl Acetate		200.00	3000.00	2000.00	1733.33
	Ethylacetylene	107-00-6	< 1.13	< 1.13	< 1.13	< 1.13
	Ethylbenzene	100-41-4	3.59	2.32	3.59	3.16
	Ethylene	74-85-1	25.09	12.84	16.92	18.28
1	2 Heptane		100.00	800.00	1000.00	633.33
1	Hexachlorobutadiene	00087-68-3	< 80.00	< 80.00	< 80.00	< 80.00
	Isobutane	75-28-5	7.25	4.23	5.74	5.74
	Isobutylene + 1-Butene	115-11-7/106-98-9	32.09	50.76	44.93	42.59
	Isooctane	540-84-1	5.52	20.19	29.99	18.57
	Isopentane	78-78-4	24.61	31.21	59.12	38.32
	Isoprene	78-79-5	< 1.13	< 1.13	< 1.13	< 1.13
	Methylacetylene	74-99-7	< 1.08	< 1.08	< 1.08	< 1.08
	Methylcyclohexane	108-87-2	16.92	41.43	64.18	40.84
	Methylcyclopentane	96-37-7	4.38	5.13	6.33	5.28
1	Methylene Chloride	00075-09-2	< 40.00	850.00	< 1100.00	663.33
1	2 Methylhexane		100.00	1400.00	1900.00	1133.33
	m-Ethyltoluene	620-14-4	< 1.11	< 1.11	< 1.11	< 1.11
	m-Xylene + p-Xylene	108-38-3/106-42-3	15.46	10.49	15.18	13.71
	n-Butane	106-97-8	16.32	10.88	11.18	12.79
	n-Decane	124-18-5	20.12	11.25	15.39	15.59
	n-Heptane	142-82-5	57.16	327.50	512.09	298.92
	n-Hexane	110-54-3	42.30	547.15	299.20	296.22
	n-Nonane	111-84-2	< 1.19	< 1.19	< 1.19	< 1.19
	n-Octane	111-65-9	< 1.19	< 1.19	< 1.19	< 1.19
	n-Pentane	109-66-0	4.38	2.46	1.89	2.91
	n-Propylbenzene	103-65-1	< 1.11	< 1.11	< 1.11	< 1.11
	o-Ethyltoluene	611-14-3	29.44	< 5.56	88.88	< 41.29
	o-Xylene	95-47-6	2.37	< 1.10	3.75	< 2.41
	p-Cymene	99-87-6	< 5.58	7.26	< 5.58	< 6.14
	p-Ethyltoluene	622-96-8	7.22	< 1.11	4.00	< 4.11
	Propane	74-98-6	262.91	152.86	235.40	217.06
	Propylene	115-07-1	4.90	3.03	4.00	3.98
1	Propylene Oxide	00075-56-9	< 80.00	< 80.00	< 80.00	< 80.00
	Styrene	100-42-5	< 1.08	< 1.08	< 1.08	< 1.08
1	t-Butyl Methyl Ether	01634-04-4	< 80.00	< 80.00	< 80.00	< 80.00
1	Tetrachloroethene	00127-18-4	< 40.00	< 40.00	< 40.00	< 40.00
	Toluene	108-88-3	821.31	405.18	136.89	454.46
1	trans-1,2-Dichloroethene	00156-60-5	< 40.00	< 40.00	< 40.00	< 40.00
1	trans-1,2-Dichloropropene	10061-01-5	< 40.00	< 40.00	< 40.00	< 40.00
	trans-2-Butene	624-64-6	< 1.17	< 1.17	< 1.17	< 1.17
	trans-2-Hexene	4050-45-7	< 1.17	< 1.17	< 1.17	< 1.17
	trans-2-Pentene	646-04-8	< 1.17	< 1.17	< 1.17	< 1.17
1	Trichloroethene	00079-01-6	< 40.00	< 40.00	< 40.00	< 40.00
1	Trichlorofluoromethane	00075-69-4	< 40.00	< 40.00	< 40.00	< 40.00
1	Trichlortrifluoroethane	00076-13-1	< 40.00	< 40.00	< 40.00	< 40.00
1	Vinyl Acetate	00108-05-4	< 40.00	< 40.00	< 40.00	< 40.00
1	Vinyl Chloride	00075-01-4	< 40.00	< 40.00	< 40.00	< 40.00
	Total Detected		6904.65	11740.59	11861.33	10168.86
	Total with non-detects		< 9349.41	< 14159.96	< 15327.26	< 12945.55

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Table G.1-3. Warmup Mill 1
Speciated Volatiles

		CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Avg.
Speciated Volatiles (lb/hr)						
	1-Heptene	592-76-7	9.18E-07	5.51E-06	7.43E-06	4.62E-06
	1-Hexene	592-41-6	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	1-Octene	111-60-0	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	1-Pentene	109-67-1	1.18E-06	9.64E-07	1.07E-06	1.07E-06
1	1,1-Dichloroethene	00075-35-4	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	1,1-Dichloroethane	00075-34-3	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	1,1,1-Trichloroethane	00071-55-6	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	1,1,2-Trichloroethane	00079-00-5	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
1	1,2-Dibromoethane	00106-93-4	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	1,2-Dichlorobenzene	00095-50-1	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	1,2-Dichloroethane	00107-06-2	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	1,2-Dichloropropane	00078-87-5	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
	1,2,4-Trimethylbenzene	95-63-6	7.49E-07	< 4.37E-07	5.20E-07	< 5.69E-07
	1,3-Butadiene	106-99-0	< 8.43E-08	< 8.85E-08	< 8.43E-08	< 8.57E-08
1	1,3-Dichlorobenzene	00541-73-1	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
	1,3,5-Trimethylbenzene	108-67-8	< 4.16E-07	1.14E-06	< 4.16E-07	< 6.56E-07
1	1,4-Dichlorobenzene	00106-46-7	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	1.00E-05	< 4.39E-07	7.11E-06	< 5.86E-06
1	1,4-Dioxane	00123-91-1	< 1.20E-05	< 1.26E-05	< 1.20E-05	< 1.22E-05
1	2-Butanone	00078-93-3	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
1	2-Hexanone	00591-78-6	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
	2-Methyl-1-butene	563-46-2	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	2-Methyl-2-butene	513-35-9	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	2-Methyl-2-pentene	625-27-4	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	2-Methylheptane	592-27-8	< 8.90E-08	< 9.34E-08	< 8.90E-08	< 9.05E-08
	2-Methylhexane	591-76-4	3.35E-06	2.06E-05	2.81E-05	1.74E-05
	2-Methylpentane	107-83-5	< 8.95E-08	< 9.40E-08	< 8.95E-08	< 9.10E-08
	2,2-Dimethylbutane	75-83-2	< 8.95E-08	< 9.40E-08	< 8.95E-08	< 9.10E-08
	2,2-Dimethylpropane	463-82-1	< 8.99E-08	< 9.44E-08	< 8.99E-08	< 9.14E-08
	2,3-Dimethylpentane	565-59-3	9.81E-07	5.62E-06	8.92E-06	5.17E-06
	2,3,4-Trimethylpentane	565-75-3	< 8.90E-08	< 9.34E-08	< 8.90E-08	< 9.05E-08
	2,4-Dimethylhexane	589-43-5	7.56E-07	2.94E-06	4.45E-06	2.72E-06
	3-Methylhexane	589-34-4	4.91E-06	2.90E-05	4.06E-05	2.48E-05
	3-Methylpentane	96-14-0	7.16E-07	4.56E-07	4.19E-07	5.30E-07
	4-Methyl-1-pentene	691-37-2	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
1	4-Methyl-2-pentanone	00108-10-1	< 3.00E-06	< 3.15E-06	3.00E-06	< 3.05E-06
1	Acetone	00067-64-1	3.60E-06	2.75E-06	3.22E-06	3.19E-06
1	Acetonitrile	01722-09-4	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
	Acetylene	74-86-2	6.90E-07	3.83E-07	6.49E-07	5.74E-07
1	Acrolein	00107-02-8	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
1	Acrylonitrile	00107-13-1	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
1	Allyl Chloride	00107-05-1	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
	a-Pinene	7785-70-8	< 8.49E-08	< 8.92E-08	< 8.49E-08	< 8.63E-08
	Benzene	71-43-2	5.68E-07	1.45E-07	2.96E-07	3.36E-07
1	Benzyl Chloride	00100-44-7	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
	b-Pinene	18172-67-3	1.57E-06	< 4.46E-07	1.06E-06	< 1.03E-06
1	Bromodichloromethane	00075-27-4	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Bromoform	00075-25-2	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Bromomethane	00074-83-9	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1 2	C11-C12 Branched Alkane		7.49E-05	5.51E-05	6.74E-05	6.58E-05
1 2	C9H10 Alkyl Substituted Benzene		0.00E+00	0.00E+00	2.25E-05	7.49E-06
1	Carbon Disulfide	00075-15-0	1.80E-04	1.34E-04	1.65E-04	1.59E-04
1	Carbon Tetrachloride	00056-23-5	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1 2	Chloro-4-(1-Chloroethenyl)Cyclohexene		4.50E-05	1.57E-05	1.50E-05	2.52E-05
1 2	Chloro-5-(1-Chloroethenyl)Cyclohexene		3.75E-05	1.57E-05	1.50E-05	2.27E-05
1	Chlorobenzene	00108-90-7	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Chlorodibromomethane	00124-48-1	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Chloroethane	00075-00-3	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Chloroform	00067-66-3	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Chloromethane	00074-87-3	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	cis-1,2-Dichloroethene	00156-59-2	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	cis-1,3-Dichloropropene	10061-01-5	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06

TRC

Table G.1-3. Warmup Mill 1
Speciated Volatiles

		CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Avg.
	Speciated Volatiles (lb/hr)					
	cis-2-Butene	590-18-1	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	cis-2-Hexene	7688-21-3	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	cis-2-Pentene	627-20-3	3.58E-07	5.97E-06	6.99E-06	4.44E-06
	Cumene	98-82-8	< 8.32E-08	< 8.74E-08	< 8.32E-08	< 8.46E-08
	Cyclohexane	110-82-7	2.49E-07	< 9.18E-08	< 8.74E-08	< 1.43E-07
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	< 9.74E-08	< 1.02E-07	< 9.74E-08	< 9.91E-08
	Cyclopentene	142-29-0	< 8.49E-08	< 8.92E-08	< 8.49E-08	< 8.63E-08
1	Dichlorodifluoromethane	00075-71-8	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1 2	Dimethylpentane		0.00E+00	1.57E-05	0.00E+00	5.24E-06
	d-Limonene	5989-27-5	5.52E-06	3.43E-06	3.91E-06	4.29E-06
1	Epichlorohydrin	00106-89-8	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
	Ethane	74-84-0	8.90E-06	3.20E-06	2.32E-06	4.81E-06
1 2	Ethyl Acetate		1.50E-05	2.36E-04	1.50E-04	1.34E-04
	Ethylacetylene	107-00-6	< 8.43E-08	< 8.85E-08	< 8.43E-08	< 8.57E-08
	Ethylbenzene	100-41-4	2.69E-07	1.82E-07	2.69E-07	2.40E-07
	Ethylene	74-85-1	1.88E-06	1.01E-06	1.27E-06	1.39E-06
1 2	Heptane		7.49E-06	6.29E-05	7.49E-05	4.84E-05
1	Hexachlorobutadiene	00087-68-3	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
	Isobutane	75-28-5	5.43E-07	3.33E-07	4.30E-07	4.35E-07
	Isobutylene + 1-Butene	115-11-7/106-98-9	2.40E-06	3.99E-06	3.37E-06	3.25E-06
	Isooctane	540-84-1	4.14E-07	1.59E-06	2.25E-06	1.42E-06
	Isopentane	78-78-4	1.84E-06	2.46E-06	4.43E-06	2.91E-06
	Isoprene	78-79-5	< 8.49E-08	< 8.92E-08	< 8.49E-08	< 8.63E-08
	Methylacetylene	74-99-7	< 8.11E-08	< 8.52E-08	< 8.11E-08	< 8.25E-08
	Methylcyclohexane	108-87-2	1.27E-06	3.26E-06	4.81E-06	3.11E-06
	Methylcyclopentane	96-37-7	3.28E-07	4.04E-07	4.74E-07	4.02E-07
1	Methylene Chloride	00075-09-2	< 3.00E-06	6.69E-05	8.24E-05	5.08E-05
1 2	Methylhexane		7.49E-06	1.10E-04	1.42E-04	8.67E-05
	m-Ethyltoluene	620-14-4	< 8.32E-08	< 8.74E-08	< 8.32E-08	< 8.46E-08
	m-Xylene + p-Xylene	108-38-3/106-42-3	1.16E-06	8.25E-07	1.14E-06	1.04E-06
	n-Butane	106-97-8	1.22E-06	8.56E-07	8.38E-07	9.72E-07
	n-Decane	124-18-5	1.51E-06	8.85E-07	1.15E-06	1.18E-06
	n-Heptane	142-82-5	4.28E-06	2.58E-05	3.84E-05	2.28E-05
	n-Hexane	110-54-3	3.17E-06	4.30E-05	2.24E-05	2.29E-05
	n-Nonane	111-84-2	< 8.88E-08	< 9.33E-08	< 8.88E-08	< 9.03E-08
	n-Octane	111-65-9	< 8.90E-08	< 9.34E-08	< 8.90E-08	< 9.05E-08
	n-Pentane	109-66-0	3.28E-07	1.94E-07	1.42E-07	2.21E-07
	n-Propylbenzene	103-65-1	< 8.32E-08	< 8.74E-08	< 8.32E-08	< 8.46E-08
	o-Ethyltoluene	611-14-3	2.21E-06	< 4.37E-07	6.66E-06	< 3.10E-06
	o-Xylene	95-47-6	1.78E-07	< 8.69E-08	2.81E-07	< 1.82E-07
	p-Cymene	99-87-6	< 4.18E-07	5.71E-07	< 4.18E-07	< 4.69E-07
	p-Ethyltoluene	622-96-8	5.41E-07	< 8.74E-08	3.00E-07	< 3.09E-07
	Propane	74-98-6	1.97E-05	1.20E-05	1.76E-05	1.65E-05
	Propylene	115-07-1	3.67E-07	2.39E-07	2.99E-07	3.02E-07
1	Propylene Oxide	00075-56-9	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
	Styrene	100-42-5	< 8.11E-08	< 8.52E-08	< 8.11E-08	< 8.25E-08
1	t-Butyl Methyl Ether	01634-04-4	< 5.99E-06	< 6.29E-06	< 5.99E-06	< 6.09E-06
1	Tetrachloroethene	00127-18-4	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
	Toluene	108-88-3	6.15E-05	3.19E-05	1.03E-05	3.46E-05
1	trans-1,2-Dichloroethene	00156-60-5	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	trans-1,2-Dichloropropene	10061-01-5	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
	trans-2-Butene	624-64-6	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	trans-2-Hexene	4050-45-7	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
	trans-2-Pentene	646-04-8	< 8.74E-08	< 9.18E-08	< 8.74E-08	< 8.89E-08
1	Trichloroethene	00079-01-6	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Trichlorofluoromethane	00075-69-4	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Trichlortrifluoroethane	00076-13-1	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Vinyl Acetate	00108-05-4	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
1	Vinyl Chloride	00075-01-4	< 3.00E-06	< 3.15E-06	< 3.00E-06	< 3.05E-06
	Total Detected		5.17E-04	9.24E-04	9.71E-04	8.04E-04
	Total with non-detects		< 7.00E-04	< 1.11E-03	< 1.15E-03	< 9.88E-04

TRC

Table G.1-3. Warmup Mill 1
Speciated Volatiles

		CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Avg.
Speciated Volatiles (lb/lb rubber)						
	1-Heptene	592-76-7	8.76E-10	8.14E-09	7.14E-09	5.39E-09
	1-Hexene	592-41-6	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	1-Octene	111-60-0	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	1-Pentene	109-67-1	1.13E-09	1.43E-09	1.03E-09	1.19E-09
1	1,1-Dichloroethene	00075-35-4	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	1,1-Dichloroethane	00075-34-3	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	1,1,1-Trichloroethane	00071-55-6	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	1,1,2-Trichloroethane	00079-00-5	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
1	1,2-Dibromoethane	00106-93-4	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	1,2-Dichlorobenzene	00095-50-1	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	1,2-Dichloroethane	00107-06-2	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	1,2-Dichloropropane	00078-87-5	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
	1,2,4-Trimethylbenzene	95-63-6	7.15E-10	< 6.46E-10	5.00E-10	< 6.20E-10
	1,3-Butadiene	106-99-0	< 8.04E-11	< 1.31E-10	< 8.10E-11	< 9.74E-11
1	1,3-Dichlorobenzene	00541-73-1	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
	1,3,5-Trimethylbenzene	108-67-8	< 3.97E-10	1.68E-09	< 4.00E-10	< 8.26E-10
1	1,4-Dichlorobenzene	00106-46-7	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	9.58E-09	< 6.49E-10	6.83E-09	< 5.69E-09
1	1,4-Dioxane	00123-91-1	< 1.14E-08	< 1.86E-08	< 1.15E-08	< 1.39E-08
1	2-Butanone	00078-93-3	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
1	2-Hexanone	00591-78-6	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
	2-Methyl-1-butene	563-46-2	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	2-Methyl-2-butene	513-35-9	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	2-Methyl-2-pentene	625-27-4	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	2-Methylheptane	592-27-8	< 8.49E-11	< 1.38E-10	< 8.55E-11	< 1.03E-10
	2-Methylhexane	591-76-4	3.19E-09	3.05E-08	2.70E-08	2.02E-08
	2-Methylpentane	107-83-5	< 8.54E-11	< 1.39E-10	< 8.60E-11	< 1.03E-10
	2,2-Dimethylbutane	75-83-2	< 8.54E-11	< 1.39E-10	< 8.60E-11	< 1.03E-10
	2,2-Dimethylpropane	463-82-1	< 8.58E-11	< 1.40E-10	< 8.64E-11	< 1.04E-10
	2,3-Dimethylpentane	565-59-3	9.36E-10	8.31E-09	8.57E-09	5.94E-09
	2,3,4-Trimethylpentane	565-75-3	< 8.49E-11	< 1.38E-10	< 8.55E-11	< 1.03E-10
	2,4-Dimethylhexane	589-43-5	7.22E-10	4.35E-09	4.27E-09	3.12E-09
	3-Methylhexane	589-34-4	4.68E-09	4.29E-08	3.90E-08	2.89E-08
	3-Methylpentane	96-14-0	6.83E-10	6.74E-10	4.02E-10	5.86E-10
	4-Methyl-1-pentene	691-37-2	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
1	4-Methyl-2-pentanone	00108-10-1	< 2.86E-09	< 4.65E-09	2.88E-09	< 3.46E-09
1	Acetone	00067-64-1	3.43E-09	4.07E-09	3.09E-09	3.53E-09
1	Acetonitrile	01722-09-4	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
	Acetylene	74-86-2	6.58E-10	5.67E-10	6.24E-10	6.16E-10
1	Acrolein	00107-02-8	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
1	Acrylonitrile	00107-13-1	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
1	Allyl Chloride	00107-05-1	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
	a-Pinene	7785-70-8	< 8.10E-11	< 1.32E-10	< 8.16E-11	< 9.81E-11
	Benzene	71-43-2	5.42E-10	2.14E-10	2.84E-10	3.47E-10
1	Benzyl Chloride	00100-44-7	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
	b-Pinene	18172-67-3	1.50E-09	< 6.59E-10	1.02E-09	< 1.06E-09
1	Bromodichloromethane	00075-27-4	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Bromoform	00075-25-2	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Bromomethane	00074-83-9	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1 2	C11-C12 Branched Alkane		7.15E-08	8.14E-08	6.48E-08	7.26E-08
1 2	C9H10 Alkyl Substituted Benzene		0.00E+00	0.00E+00	2.16E-08	7.20E-09
1	Carbon Disulfide	00075-15-0	1.72E-07	1.98E-07	1.58E-07	1.76E-07
1	Carbon Tetrachloride	00056-23-5	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1 2	Chloro-4-(1-Chloroethenyl)Cyclohexene		4.29E-08	2.33E-08	1.44E-08	2.68E-08
1 2	Chloro-5-(1-Chloroethenyl)Cyclohexene		3.57E-08	2.33E-08	1.44E-08	2.45E-08
1	Chlorobenzene	00108-90-7	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Chlorodibromomethane	00124-48-1	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Chloroethane	00075-00-3	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Chloroform	00067-66-3	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Chloromethane	00074-87-3	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	cis-1,2-Dichloroethene	00156-59-2	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	cis-1,3-Dichloropropene	10061-01-5	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09

TRC

Table G.1-3. Warmup Mill 1
Speciated Volatiles

		CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Avg.
	Speciated Volatiles (lb/lb rubber)					
	cis-2-Butene	590-18-1	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	cis-2-Hexene	7688-21-3	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	cis-2-Pentene	627-20-3	3.42E-10	8.82E-09	6.72E-09	5.29E-09
	Cumene	98-82-8	< 7.94E-11	< 1.29E-10	< 8.00E-11	< 9.62E-11
	Cyclohexane	110-82-7	2.38E-10	< 1.36E-10	< 8.40E-11	< 1.52E-10
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	< 9.29E-11	< 1.51E-10	< 9.36E-11	< 1.13E-10
	Cyclopentene	142-29-0	< 8.10E-11	< 1.32E-10	< 8.16E-11	< 9.81E-11
1	Dichlorodifluoromethane	00075-71-8	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1 2	Dimethylpentane		0.00E+00	2.33E-08	0.00E+00	7.75E-09
	d-Limonene	5989-27-5	5.27E-09	5.08E-09	3.75E-09	4.70E-09
1	Epichlorohydrin	00106-89-8	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
	Ethane	74-84-0	8.49E-09	4.73E-09	2.23E-09	5.15E-09
1 2	Ethyl Acetate		1.43E-08	3.49E-07	1.44E-07	1.69E-07
	Ethylacetylene	107-00-6	< 8.04E-11	< 1.31E-10	< 8.10E-11	< 9.74E-11
	Ethylbenzene	100-41-4	2.56E-10	2.70E-10	2.58E-10	2.61E-10
	Ethylene	74-85-1	1.79E-09	1.49E-09	1.22E-09	1.50E-09
1 2	Heptane		7.15E-09	9.31E-08	7.20E-08	5.74E-08
1	Hexachlorobutadiene	00087-68-3	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
	Isobutane	75-28-5	5.18E-10	4.92E-10	4.13E-10	4.75E-10
	Isobutylene + 1-Butene	115-11-7/106-98-9	2.29E-09	5.90E-09	3.23E-09	3.81E-09
	Isooctane	540-84-1	3.95E-10	2.35E-09	2.16E-09	1.63E-09
	Isopentane	78-78-4	1.76E-09	3.63E-09	4.25E-09	3.21E-09
	Isoprene	78-79-5	< 8.10E-11	< 1.32E-10	< 8.16E-11	< 9.81E-11
	Methylacetylene	74-99-7	< 7.74E-11	< 1.26E-10	< 7.79E-11	< 9.38E-11
	Methylcyclohexane	108-87-2	1.21E-09	4.82E-09	4.62E-09	3.55E-09
	Methylcyclopentane	96-37-7	3.13E-10	5.97E-10	4.56E-10	4.55E-10
1	Methylene Chloride	00075-09-2	< 2.86E-09	9.89E-08	7.92E-08	6.03E-08
1 2	Methylhexane		7.15E-09	1.63E-07	1.37E-07	1.02E-07
	m-Ethyltoluene	620-14-4	< 7.94E-11	< 1.29E-10	< 8.00E-11	< 9.62E-11
	m-Xylene + p-Xylene	108-38-3/106-42-3	1.10E-09	1.22E-09	1.09E-09	1.14E-09
	n-Butane	106-97-8	1.17E-09	1.27E-09	8.05E-10	1.08E-09
	n-Decane	124-18-5	1.44E-09	1.31E-09	1.11E-09	1.28E-09
	n-Heptane	142-82-5	4.09E-09	3.81E-08	3.69E-08	2.63E-08
	n-Hexane	110-54-3	3.02E-09	6.36E-08	2.15E-08	2.94E-08
	n-Nonane	111-84-2	< 8.47E-11	< 1.38E-10	< 8.53E-11	< 1.03E-10
	n-Octane	111-65-9	< 8.49E-11	< 1.38E-10	< 8.55E-11	< 1.03E-10
	n-Pentane	109-66-0	3.13E-10	2.86E-10	1.36E-10	2.45E-10
	n-Propylbenzene	103-65-1	< 7.94E-11	< 1.29E-10	< 8.00E-11	< 9.62E-11
	o-Ethyltoluene	611-14-3	2.10E-09	< 6.46E-10	6.40E-09	< 3.05E-09
	o-Xylene	95-47-6	1.70E-10	< 1.28E-10	2.70E-10	< 1.89E-10
	p-Cymene	99-87-6	< 3.99E-10	8.44E-10	< 4.02E-10	< 5.48E-10
	p-Ethyltoluene	622-96-8	5.16E-10	< 1.29E-10	2.88E-10	< 3.11E-10
	Propane	74-98-6	1.88E-08	1.78E-08	1.69E-08	1.78E-08
	Propylene	115-07-1	3.50E-10	3.53E-10	2.88E-10	3.30E-10
1	Propylene Oxide	00075-56-9	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
	Styrene	100-42-5	< 7.74E-11	< 1.26E-10	< 7.79E-11	< 9.38E-11
1	t-Butyl Methyl Ether	01634-04-4	< 5.72E-09	< 9.31E-09	< 5.76E-09	< 6.93E-09
1	Tetrachloroethene	00127-18-4	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
	Toluene	108-88-3	5.87E-08	4.71E-08	9.85E-09	3.86E-08
1	trans-1,2-Dichloroethene	00156-60-5	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	trans-1,2-Dichloropropene	10061-01-5	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
	trans-2-Butene	624-64-6	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	trans-2-Hexene	4050-45-7	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
	trans-2-Pentene	646-04-8	< 8.34E-11	< 1.36E-10	< 8.40E-11	< 1.01E-10
1	Trichloroethene	00079-01-6	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Trichlorofluoromethane	00075-69-4	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Trichlortrifluoroethane	00076-13-1	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Vinyl Acetate	00108-05-4	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
1	Vinyl Chloride	00075-01-4	< 2.86E-09	< 4.65E-09	< 2.88E-09	< 3.46E-09
	Total Detected		4.93E-07	1.37E-06	9.33E-07	9.31E-07
	Total with non-detects		< 6.68E-07	< 1.65E-06	< 1.10E-06	< 1.14E-06

1 TO-14

2 Tentatively Identified Compound

TRC

Table G.1-4. Warmup Mill 1
Sulfur Summary

Compounds	CAS Numbers	Compound #12 Run 1	Run 2	Run 3	Avg
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10.0	< 10.0	< 10.0	< 10.0
Dimethyl Sulfide	75-18-3	< 10.0	< 10.0	< 10.0	< 10.0
Carbon Disulfide	75-15-0	1940.0	1410.0	1730.0	1693.3
Isopropyl Mercaptan	75-33-2	< 12.0	< 12.0	< 12.0	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15.0	< 15.0	< 15.0	< 15.0
n-Propyl Mercaptan	107-03-9	< 12.0	< 12.0	< 12.0	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12.0	< 12.0	< 12.0	< 12.0
Thiophene	110-02-1	< 14.0	< 14.0	< 14.0	< 14.0
Isobutyl Mercaptan	513-44-0	< 15.0	< 15.0	< 15.0	< 15.0
Diethyl Sulfide	352-93-2	< 15.0	< 15.0	< 15.0	< 15.0
n-Butyl Mercaptan	109-79-5	< 15.0	< 15.0	< 15.0	< 15.0
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16.0	< 16.0	< 16.0	< 16.0
Tetrahydrothiophene	110-01-0	< 14.0	< 14.0	< 14.0	< 14.0
2-Ethylthiophene	872-55-9	< 18.0	< 18.0	< 18.0	< 18.0
2,5-Dimethylthiophene	638-02-8	< 18.0	< 18.0	< 18.0	< 18.0
Diethyl Disulfide	110-81-6	< 10.0	< 10.0	< 10.0	< 10.0
Total Detected		1940.0	1410.0	1730.0	1693.3
Total with non-detects		< 2171.4	< 1641.4	< 1961.4	< 1924.7
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 7.34E-07	< 7.71E-07	< 7.34E-07	< 7.46E-07
Methyl Mercaptan	74-93-1	< 5.92E-07	< 6.21E-07	< 5.92E-07	< 6.02E-07
Ethyl Mercaptan	75-08-1	< 7.49E-07	< 7.87E-07	< 7.49E-07	< 7.62E-07
Dimethyl Sulfide	75-18-3	< 7.49E-07	< 7.87E-07	< 7.49E-07	< 7.62E-07
Carbon Disulfide	75-15-0	1.45E-04	1.11E-04	1.30E-04	1.29E-04
Isopropyl Mercaptan	75-33-2	< 8.99E-07	< 9.44E-07	< 8.99E-07	< 9.14E-07
tert-Butyl Mercaptan	75-66-1	< 1.12E-06	< 1.18E-06	< 1.12E-06	< 1.14E-06
n-Propyl Mercaptan	107-03-9	< 8.99E-07	< 9.44E-07	< 8.99E-07	< 9.14E-07
Ethyl Methyl Sulfide	624-89-5	< 8.99E-07	< 9.44E-07	< 8.99E-07	< 9.14E-07
Thiophene	110-02-1	< 1.05E-06	< 1.10E-06	< 1.05E-06	< 1.07E-06
Isobutyl Mercaptan	513-44-0	< 1.12E-06	< 1.18E-06	< 1.12E-06	< 1.14E-06
Diethyl Sulfide	352-93-2	< 1.12E-06	< 1.18E-06	< 1.12E-06	< 1.14E-06
n-Butyl Mercaptan	109-79-5	< 1.12E-06	< 1.18E-06	< 1.12E-06	< 1.14E-06
Dimethyl Disulfide	624-92-0	< 5.77E-07	< 6.06E-07	< 5.77E-07	< 5.87E-07
3-Methylthiophene	616-44-4	< 1.20E-06	< 1.26E-06	< 1.20E-06	< 1.22E-06
Tetrahydrothiophene	110-01-0	< 1.05E-06	< 1.10E-06	< 1.05E-06	< 1.07E-06
2-Ethylthiophene	872-55-9	< 1.35E-06	< 1.42E-06	< 1.35E-06	< 1.37E-06
2,5-Dimethylthiophene	638-02-8	< 1.35E-06	< 1.42E-06	< 1.35E-06	< 1.37E-06
Diethyl Disulfide	110-81-6	< 7.49E-07	< 7.87E-07	< 7.49E-07	< 7.62E-07
Total Detected		1.45E-04	1.11E-04	1.30E-04	1.29E-04
Total with non-detects		< 1.63E-04	< 1.29E-04	< 1.47E-04	< 1.46E-04
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 7.00E-10	< 1.14E-09	< 7.05E-10	< 8.49E-10
Methyl Mercaptan	74-93-1	< 5.65E-10	< 9.19E-10	< 5.69E-10	< 6.84E-10
Ethyl Mercaptan	75-08-1	< 7.15E-10	< 1.16E-09	< 7.20E-10	< 8.66E-10
Dimethyl Sulfide	75-18-3	< 7.15E-10	< 1.16E-09	< 7.20E-10	< 8.66E-10
Carbon Disulfide	75-15-0	1.39E-07	1.64E-07	1.24E-07	1.42E-07
Isopropyl Mercaptan	75-33-2	< 8.58E-10	< 1.40E-09	< 8.64E-10	< 1.04E-09
tert-Butyl Mercaptan	75-66-1	< 1.07E-09	< 1.74E-09	< 1.08E-09	< 1.30E-09
n-Propyl Mercaptan	107-03-9	< 8.58E-10	< 1.40E-09	< 8.64E-10	< 1.04E-09
Ethyl Methyl Sulfide	624-89-5	< 8.58E-10	< 1.40E-09	< 8.64E-10	< 1.04E-09
Thiophene	110-02-1	< 1.00E-09	< 1.63E-09	< 1.01E-09	< 1.21E-09
Isobutyl Mercaptan	513-44-0	< 1.07E-09	< 1.74E-09	< 1.08E-09	< 1.30E-09
Diethyl Sulfide	352-93-2	< 1.07E-09	< 1.74E-09	< 1.08E-09	< 1.30E-09
n-Butyl Mercaptan	109-79-5	< 1.07E-09	< 1.74E-09	< 1.08E-09	< 1.30E-09
Dimethyl Disulfide	624-92-0	< 5.50E-10	< 8.96E-10	< 5.54E-10	< 6.67E-10
3-Methylthiophene	616-44-4	< 1.14E-09	< 1.86E-09	< 1.15E-09	< 1.39E-09
Tetrahydrothiophene	110-01-0	< 1.00E-09	< 1.63E-09	< 1.01E-09	< 1.21E-09
2-Ethylthiophene	872-55-9	< 1.29E-09	< 2.09E-09	< 1.30E-09	< 1.56E-09
2,5-Dimethylthiophene	638-02-8	< 1.29E-09	< 2.09E-09	< 1.30E-09	< 1.56E-09
Diethyl Disulfide	110-81-6	< 7.15E-10	< 1.16E-09	< 7.20E-10	< 8.66E-10
Total Detected		1.39E-07	1.64E-07	1.24E-07	1.42E-07
Total with non-detects		< 1.55E-07	< 1.91E-07	< 1.41E-07	< 1.62E-07

TRC

Table G.1-5. Warmup Mill 1

POM Train Results

	Compount #12			
	Run-1	**Run-2**	**Run-3**	**Avg.**
POM- (mg)	0.2	1.7	2.3	1.4
Sample Volume (dscf)	49.153	56.039	59.649	54.947
POM- (mg/m^3)	0.14	1.07	1.36	0.86
Flowrate (dscfm)	20	21	20	20
POM (lb/hr)	1.08E-05	8.43E-05	1.02E-04	6.57E-05
Run Time (min)	95	103	110	103
Rubber removed (lbs/hr)	1048.27	676.31	1041.08	921.89
POM (lb/lb rubber)	1.03E-08	1.25E-07	9.80E-08	7.76E-08

TRC

Section G.2

Warmup Mill No. 2

(Tires)

TRC

Section G.2

Warmup Mill No. 2

(Tires)

Table Number	Title	No. of Pages
G.2-1	Warmup Mill 2 Summary Table	1
G.2-2	Warmup Mill 2 Speciated Semivolatiles	6
G.2-3	Warmup Mill 2 Speciated Volatiles	6
G.2-4	Warmup Mill 2 Sulfur Summary	1
G.2-5	Warmup Mill 2 POM Train Results	1

Table G.2-1. Warmup Mill 2 Summary Table

	Compound		
	#2	#3	#4
Total Rubber (lbs/hr)	9.34	9.37	9.94
Total VOC (ppm/run)	6.5	7.0	5.5
Total VOC (lbs/hr)	1.02E-03	1.05E-03	8.36E-04
Total VOC (lbs/lb rubber)	1.10E-04	1.12E-04	8.40E-05
Standard Deviation (lbs/lb rubber)	3.55E-05	4.19E-05	5.95E-05
Speciated Total Semi Vol (μg/m³)-Detected	120.82	4440.23	3543.34
Speciated Total Semi Vol (lbs/hr)-Detected	1.04E-05	3.66E-04	2.92E-04
Speciated Total Semi Vol (lbs/lb rubber)-Detected	1.11E-06	3.91E-05	2.94E-05
Speciated Total Semi Vol (lbs/lb rubber)-with non-detec	< 1.75E-06	< 4.06E-05	< 2.99E-05
Speciated Total Vol. (μg/m³)-Detected	3615.15	460.61	2528.90
Speciated Total Vol. (lbs/hr)-Detected	3.11E-04	3.80E-05	2.08E-04
Speciated Total Vol. (lbs/lb rubber)-Detected	3.33E-05	4.05E-06	2.10E-05
Speciated Total Vol. (lbs/lb rubber)-with non-detects	< 4.17E-05	< 8.64E-06	< 2.51E-05
Total Sulfur (μg/m³)-Detected	148.3	ND	45.4
Total Sulfur (lbs/hr)-Detected	1.28E-05	ND	3.74E-06
Total Sulfur (lbs/lb rubber)-Detected	1.37E-06	ND	3.76E-07
Total Sulfur (lbs/lb rubber)-with non-detects	< 6.84E-06	< 1.05E-05	< 6.52E-06
POM (mg/m³)	4.533	1.590	0.688
POM (lbs/hr)	3.91E-04	1.31E-04	5.67E-05
POM (lbs/lb rubber)	4.18E-05	1.40E-05	5.70E-06

ND - Not Detected

TRC

Table G.2-2. Warmup Mill 2 Speciated Semivolatiles

	CAS Numbers	Cmpd. 2	Cmpd. 3	Cmpd. 4
Speciated Semi (µg/m³)				
Pyridine	110-86-1	< 0.69	< 2.25	< 0.73
Phenol	108-95-2	5.04	< 1.60	< 0.52
bis(2-Chloroethyl)ether	111-44-4	< 0.67	< 2.16	< 0.70
2-Chlorophenol	95-57-8	< 0.52	< 1.68	< 0.54
1,3-Dichlorobenzene	541-73-1	< 0.43	< 1.40	< 0.45
1,4-Dichlorobenzene	106-46-7	< 0.44	< 1.43	< 0.46
1,2-Dichlorobenzene	95-50-1	< 0.47	< 1.53	< 0.49
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.56	< 1.82	< 0.59
Benzyl alcohol	100-51-6	< 0.91	< 2.94	1.53
2-Methylphenol	95-48-7	2.16	< 2.13	< 0.69
3/4-Methylphenol	108-39-4/106-44-5	6.05	< 2.04	1.36
N-Nitroso-di-n-propylamine	621-64-7	< 0.97	< 3.13	< 1.02
Hexachloroethane	67-72-1	< 0.97	< 3.15	< 1.02
Nitrobenzene	98-95-3	< 0.58	< 1.60	< 0.53
Isophorone	78-59-1	0.70	1274.70	37.05
2-Nitrophenol	88-75-5	< 1.02	< 2.82	< 0.94
2,4-Dimethylphenol	105-67-9	4.32	< 1.79	21.47
bis(2-Chloroethoxy)methane	111-91-1	< 0.55	< 1.50	< 0.50
Benzoic acid	65-85-0	51.23	70.58	86.83
2,4-Dichlorophenol	120-83-2	< 0.65	< 1.79	< 0.59
1,2,4-Trichlorobenzene	120-82-1	< 0.57	< 1.58	< 0.52
Naphthalene	91-20-3	14.07	42.41	19.98
4-Chloroaniline	106-47-8	< 0.47	33.48	6.56
Hexachlorobutadiene	87-68-3	< 0.91	< 2.50	< 0.83
4-Chloro-3-methylphenol	59-50-7	< 0.71	< 1.96	< 0.66
2-Methylnaphthalene	91-57-6	4.49	51.26	7.79
Hexachlorocyclopentadiene	77-47-4	< 1.45	< 2.89	< 1.06
2,4,6-Trichlorophenol	88-06-2	< 0.96	< 1.91	< 0.70
2,4,5-Trichlorophenol	95-95-4	< 0.95	< 1.89	< 0.69
2-Chloronaphthalene	91-58-7	< 0.35	< 0.68	< 0.25
2-Nitroaniline	88-74-4	< 1.24	< 2.47	< 0.91
Dimethylphthalate	131-11-3	< 0.29	8.20	< 0.21
2,6-Dinitrotoluene	606-20-2	< 1.19	< 2.38	< 0.88
2,4-Dinitrotoluene	121-14-2	< 0.84	< 1.67	< 0.61
Acenaphthylene	208-96-8	4.37	6.04	6.18
3-Nitroaniline	99-09-2	< 1.09	< 2.18	< 0.80
Acenaphthene	83-32-9	< 0.37	< 0.75	< 0.27
2,4-Dinitrophenol	105-67-9	< 3.31	< 6.60	< 2.43
4-Nitrophenol	100-02-7	< 2.22	< 4.42	< 1.63
Dibenzofuran	132-64-9	1.87	< 0.48	1.27
Diethylphthalate	84-66-2	0.00	1.05	0.15
4-Chlorophenyl-phenylether	70005-72-3	< 0.66	< 1.31	< 0.48
Fluorene	86-73-7	0.43	3.86	1.57
4-Nitroaniline	100-01-6	< 0.93	< 1.85	< 0.68
4,6-Dinitro-2-methylphenol	534-52-1	< 1.84	< 3.32	< 1.25
4-Bromophenyl-phenylether	101-55-3	< 1.06	< 1.91	< 0.72
Hexachlorobenzene	118-74-1	< 0.81	< 1.46	< 0.55
Pentachlorophenol	87-86-5	< 1.31	< 2.36	< 0.89
Phenanthrene	85-01-8	0.28	4.47	1.09
Anthracene	120-12-7	< 0.21	< 0.37	< 0.14
Di-n-butylphthalate	84-74-2	0.27	15.57	20.52
Fluoranthene	206-44-0	< 0.15	0.60	0.14
Pyrene	129-00-0	0.00	1.60	0.38
Butylbenzylphthalate	85-68-7	0.00	0.22	0.03
3,3'-Dichlorobenzidine	91-94-1	< 0.29	< 0.87	< 0.28
bis(2-Ethylhexyl)phthalate	117-81-7	3.53	98.11	13.09
Benzo(a)anthracene	56-55-3	< 0.11	< 0.34	< 0.11

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Table G.2-2. Warmup Mill 2 Speciated Semivolatiles

	CAS Numbers	Cmpd. 2	Cmpd. 3	Cmpd. 4
Speciated Semi (µg/m³)				
Chrysene	218-01-9	< 0.12	< 0.36	< 0.11
Di-n-octylphthalate	117-84-0	< 0.07	< 0.20	< 0.07
Benzo(b)fluoranthene	205-99-2	< 0.10	< 0.31	< 0.10
Benzo(k)fluoranthene	207-08-9	< 0.11	< 0.31	< 0.10
Benzo(a)pyrene	50-32-8	< 0.11	< 0.32	< 0.10
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.10	< 0.29	< 0.10
Dibenz(a,h)anthracene	53-90-3	< 0.13	< 0.37	< 0.12
Benzo(g,h,i)perylene	191-24-2	< 0.12	< 0.32	< 0.10
n-Nitrosodimethylamine	62-75-9	< 1.08	< 3.50	< 1.14
Cumene	98-82-8	< 0.26	1.67	0.17
Aniline	62-53-3	8.13	605.11	419.80
Benzyl Chloride	100-44-7	< 0.35	< 1.12	< 0.37
Acetophenone	98-86-2	< 0.55	31.78	3.43
n-Nitrosomorpholine	59-89-2	< 0.94	< 3.06	< 0.99
o-Toluidine	95-53-4	< 0.47	< 1.50	< 0.49
N,N-Dimethylaniline	121-69-7	< 0.41	< 1.14	< 0.38
1,2-Dibromo-3-chloropropane	96-12-8	< 1.01	< 3.28	< 1.06
o-Anisidine	90-04-0	< 0.75	< 2.06	< 0.69
1,4-Phenylenediamine	106-50-3	< 1.02	< 2.82	< 0.94
N,N-Diethylaniline	91-66-7	< 0.32	< 1.04	< 0.34
a,a,a-Trichlorotoluene	98-07-7	< 0.47	< 1.28	< 0.43
Hydroquinone	123-31-9	< 0.81	< 2.25	< 0.75
2-Chloroacetophenone	1341-24-8	< 0.32	< 0.88	< 0.29
Biphenyl	92-52-4	3.85	4.15	5.02
Trifluralin	1582-09-8	< 1.39	< 2.77	< 1.02
4-Aminobiphenyl	92-67-1	< 0.27	< 0.49	< 0.19
Pentachloronitrobenzene	82-68-8	< 2.35	< 4.25	< 1.60
4-Nitrobiphenyl	92-93-3	< 0.51	< 0.92	< 0.34
Benzidine	92-87-5	< 0.25	< 0.75	< 0.24
4,4'-Methylenedianiline	101-77-9	< 0.35	< 1.04	< 0.33
Dimethylaminoazobenzene	60-11-7	< 0.29	< 0.87	< 0.28
3,3'-Dimethylbenzidine	119-93-7	< 0.17	< 0.51	< 0.16
3,3'-Dimethoxybenzidine	119-90-4	< 0.41	< 1.22	< 0.40
Methylene bis-chloroaniline	101-14-4	< 0.57	< 1.70	< 0.54
3-Furaldehyde	498-60-2	< 1.04	< 3.37	< 1.09
2-Furaldehyde	98-01-1	2.00	4.83	< 0.94
Cyclohexylamine	108-91-8	< 0.51	2002.57	2870.41
N-Nitrosodiethylamine	55-18-5	< 1.29	5.77	< 1.35
Cyclohexanone	108-94-1	3.28	105.26	4.22
1,3-Cyclooctadiene	1700-10-3	< 0.66	< 2.14	< 0.70
1,5-Cyclooctadiene	111-78-4	< 1.50	< 4.85	< 1.57
Camphene	79-92-5	< 0.72	< 2.31	< 0.75
Benzaldehyde	100-52-7	2.49	< 2.53	< 0.82
Benzonitrile	100-47-0	< 0.31	1.31	< 0.33
Isooctanol	26952-21-6	< 6.77	< 21.91	< 7.10
1,2,4-Trimethylbenzene	95-63-6	1.28	30.86	2.62
3-Methylstyrene	100-80-1	< 0.47	< 1.53	< 0.49
4-Methylstyrene	622-97-9	< 0.51	< 1.65	< 0.53
4-Chlorostyrene	1073-67-2	< 0.53	< 1.70	< 0.55
1-Dodecene	112-41-4	< 2.92	< 8.03	< 2.67
Phthalimide	85-41-6	< 1.92	< 3.83	< 1.41
Diphenylamine	122-39-4	0.96	34.77	10.66
Total Detected		120.82	4440.23	3543.34
Total with non-detects		< 189.88	< 4619.93	< 3604.71

TRC

Table G.2-2. Warmup Mill 2 Speciated Semivolatiles

	CAS Numbers	Cmpd. 2	Cmpd. 3	Cmpd. 4
Speciated Semi (lb/hr)				
Pyridine	110-86-1	< 5.96E-08	< 1.85E-07	< 5.99E-08
Phenol	108-95-2	4.34E-07	< 1.32E-07	< 4.26E-08
bis(2-Chloroethyl)ether	111-44-4	< 5.75E-08	< 1.78E-07	< 5.74E-08
2-Chlorophenol	95-57-8	< 4.49E-08	< 1.39E-07	< 4.46E-08
1,3-Dichlorobenzene	541-73-1	< 3.69E-08	< 1.15E-07	< 3.71E-08
1,4-Dichlorobenzene	106-46-7	< 3.80E-08	< 1.18E-07	< 3.81E-08
1,2-Dichlorobenzene	95-50-1	< 4.06E-08	< 1.26E-07	< 4.06E-08
2,2'-oxybis(1-Chloropropane)	108-60-1	< 4.85E-08	< 1.50E-07	< 4.85E-08
Benzyl alcohol	100-51-6	< 7.86E-08	< 2.43E-07	1.26E-07
2-Methylphenol	95-48-7	1.86E-07	< 1.75E-07	< 5.70E-08
3/4-Methylphenol	108-39-4/106-44-5	5.21E-07	< 1.68E-07	1.12E-07
N-Nitroso-di-n-propylamine	621-64-7	< 8.34E-08	< 2.58E-07	< 8.37E-08
Hexachloroethane	67-72-1	< 8.34E-08	< 2.59E-07	< 8.37E-08
Nitrobenzene	98-95-3	< 5.01E-08	< 1.32E-07	< 4.36E-08
Isophorone	78-59-1	6.07E-08	1.05E-04	3.05E-06
2-Nitrophenol	88-75-5	< 8.81E-08	< 2.33E-07	< 7.73E-08
2,4-Dimethylphenol	105-67-9	3.72E-07	< 1.47E-07	1.77E-06
bis(2-Chloroethoxy)methane	111-91-1	< 4.70E-08	< 1.23E-07	< 4.11E-08
Benzoic acid	65-85-0	4.41E-06	5.82E-06	7.16E-06
2,4-Dichlorophenol	120-83-2	< 5.59E-08	< 1.47E-07	< 4.90E-08
1,2,4-Trichlorobenzene	120-82-1	< 4.91E-08	< 1.30E-07	< 4.31E-08
Naphthalene	91-20-3	1.21E-06	3.50E-06	1.65E-06
4-Chloroaniline	106-47-8	< 4.06E-08	2.76E-06	5.40E-07
Hexachlorobutadiene	87-68-3	< 7.81E-08	< 2.06E-07	< 6.83E-08
4-Chloro-3-methylphenol	59-50-7	< 6.12E-08	< 1.61E-07	< 5.40E-08
2-Methylnaphthalene	91-57-6	3.87E-07	4.22E-06	6.42E-07
Hexachlorocyclopentadiene	77-47-4	< 1.25E-07	< 2.38E-07	< 8.77E-08
2,4,6-Trichlorophenol	88-06-2	< 8.28E-08	< 1.57E-07	< 5.79E-08
2,4,5-Trichlorophenol	95-95-4	< 8.18E-08	< 1.56E-07	< 5.70E-08
2-Chloronaphthalene	91-58-7	< 3.01E-08	< 5.61E-08	< 2.08E-08
2-Nitroaniline	88-74-4	< 1.07E-07	< 2.03E-07	< 7.48E-08
Dimethylphthalate	131-11-3	< 2.48E-08	6.76E-07	< 1.73E-08
2,6-Dinitrotoluene	606-20-2	< 1.03E-07	< 1.96E-07	< 7.23E-08
2,4-Dinitrotoluene	121-14-2	< 7.23E-08	< 1.37E-07	< 5.05E-08
Acenaphthylene	208-96-8	3.76E-07	4.98E-07	5.10E-07
3-Nitroaniline	99-09-2	< 9.39E-08	< 1.79E-07	< 6.59E-08
Acenaphthene	83-32-9	< 3.22E-08	< 6.17E-08	< 2.23E-08
2,4-Dinitrophenol	105-67-9	< 2.85E-07	< 5.44E-07	< 2.00E-07
4-Nitrophenol	100-02-7	< 1.92E-07	< 3.65E-07	< 1.34E-07
Dibenzofuran	132-64-9	1.61E-07	< 3.93E-08	1.05E-07
Diethylphthalate	84-66-2	0.00E+00	8.69E-08	1.24E-08
4-Chlorophenyl-phenylether	70005-72-3	< 5.70E-08	< 1.08E-07	< 3.96E-08
Fluorene	86-73-7	3.75E-08	3.18E-07	1.30E-07
4-Nitroaniline	100-01-6	< 8.02E-08	< 1.53E-07	< 5.60E-08
4,6-Dinitro-2-methylphenol	534-52-1	< 1.58E-07	< 2.73E-07	< 1.03E-07
4-Bromophenyl-phenylether	101-55-3	< 9.13E-08	< 1.57E-07	< 5.94E-08
Hexachlorobenzene	118-74-1	< 6.97E-08	< 1.21E-07	< 4.56E-08
Pentachlorophenol	87-86-5	< 1.13E-07	< 1.95E-07	< 7.33E-08
Phenanthrene	85-01-8	2.43E-08	3.69E-07	8.96E-08
Anthracene	120-12-7	< 1.79E-08	< 3.08E-08	< 1.14E-08
Di-n-butylphthalate	84-74-2	2.32E-08	1.28E-06	1.69E-06
Fluoranthene	206-44-0	< 1.27E-08	4.91E-08	1.19E-08
Pyrene	129-00-0	0.00E+00	1.32E-07	3.12E-08
Butylbenzylphthalate	85-68-7	0.00E+00	1.82E-08	2.48E-09
3,3'-Dichlorobenzidine	91-94-1	< 2.53E-08	< 7.15E-08	< 2.28E-08
bis(2-Ethylhexyl)phthalate	117-81-7	3.04E-07	8.09E-06	1.08E-06
Benzo(a)anthracene	56-55-3	< 9.50E-09	< 2.80E-08	< 8.91E-09

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Table G.2-2. Warmup Mill 2 Speciated Semivolatiles

	CAS Numbers	Cmpd. 2	Cmpd. 3	Cmpd. 4
Speciated Semi (lb/hr)				
Chrysene	218-01-9	< 1.06E-08	< 2.94E-08	< 9.41E-09
Di-n-octylphthalate	117-84-0	< 6.33E-09	< 1.68E-08	< 5.45E-09
Benzo(b)fluoranthene	205-99-2	< 8.97E-09	< 2.52E-08	< 7.92E-09
Benzo(k)fluoranthene	207-08-9	< 9.50E-09	< 2.52E-08	< 8.42E-09
Benzo(a)pyrene	50-32-8	< 9.50E-09	< 2.66E-08	< 8.42E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 8.97E-09	< 2.38E-08	< 7.92E-09
Dibenz(a,h)anthracene	53-90-3	< 1.16E-08	< 3.08E-08	< 9.90E-09
Benzo(g,h,i)perylene	191-24-2	< 1.00E-08	< 2.66E-08	< 8.42E-09
n-Nitrosodimethylamine	62-75-9	< 9.29E-08	< 2.89E-07	< 9.36E-08
Cumene	98-82-8	< 2.22E-08	1.37E-07	1.44E-08
Aniline	62-53-3	7.00E-07	4.99E-05	3.46E-05
Benzyl Chloride	100-44-7	< 3.01E-08	< 9.25E-08	< 3.02E-08
Acetophenone	98-86-2	< 4.75E-08	2.62E-06	2.83E-07
n-Nitrosomorpholine	59-89-2	< 8.13E-08	< 2.52E-07	< 8.17E-08
o-Toluidine	95-53-4	< 4.01E-08	< 1.23E-07	< 4.01E-08
N,N-Dimethylaniline	121-69-7	< 3.54E-08	< 9.39E-08	< 3.12E-08
1,2-Dibromo-3-chloropropane	96-12-8	< 8.71E-08	< 2.71E-07	< 8.77E-08
o-Anisidine	90-04-0	< 6.44E-08	< 1.70E-07	< 5.65E-08
1,4-Phenylenediamine	106-50-3	< 8.81E-08	< 2.33E-07	< 7.73E-08
N,N-Diethylaniline	91-66-7	< 2.80E-08	< 8.55E-08	< 2.77E-08
a,a,a-Trichlorotoluene	98-07-7	< 4.01E-08	< 1.05E-07	< 3.52E-08
Hydroquinone	123-31-9	< 7.02E-08	< 1.85E-07	< 6.14E-08
2-Chloroacetophenone	1341-24-8	< 2.74E-08	< 7.29E-08	< 2.38E-08
Biphenyl	92-52-4	3.32E-07	3.42E-07	4.14E-07
Trifluralin	1582-09-8	< 1.20E-07	< 2.29E-07	< 8.42E-08
4-Aminobiphenyl	92-67-1	< 2.32E-08	< 4.07E-08	< 1.54E-08
Pentachloronitrobenzene	82-68-8	< 2.03E-07	< 3.51E-07	< 1.32E-07
4-Nitrobiphenyl	92-93-3	< 4.38E-08	< 7.57E-08	< 2.82E-08
Benzidine	92-87-5	< 2.16E-08	< 6.17E-08	< 1.98E-08
4,4'-Methylenedianiline	101-77-9	< 3.01E-08	< 8.55E-08	< 2.72E-08
Dimethylaminoazobenzene	60-11-7	< 2.48E-08	< 7.15E-08	< 2.28E-08
3,3'-Dimethylbenzidine	119-93-7	< 1.48E-08	< 4.21E-08	< 1.34E-08
3,3'-Dimethoxybenzidine	119-90-4	< 3.54E-08	< 1.01E-07	< 3.27E-08
Methylene bis-chloroaniline	101-14-4	< 4.91E-08	< 1.40E-07	< 4.46E-08
3-Furaldehyde	498-60-2	< 8.97E-08	< 2.78E-07	< 9.01E-08
2-Furaldehyde	98-01-1	1.73E-07	3.98E-07	< 7.73E-08
Cyclohexylamine	108-91-8	< 4.38E-08	1.65E-04	2.37E-04
N-Nitrosodiethylamine	55-18-5	< 1.11E-07	4.75E-07	< 1.11E-07
Cyclohexanone	108-94-1	2.83E-07	8.67E-06	3.48E-07
1,3-Cyclooctadiene	1700-10-3	< 5.70E-08	< 1.77E-07	< 5.74E-08
1,5-Cyclooctadiene	111-78-4	< 1.29E-07	< 4.00E-07	< 1.30E-07
Camphene	79-92-5	< 6.17E-08	< 1.91E-07	< 6.19E-08
Benzaldehyde	100-52-7	2.14E-07	< 2.09E-07	< 6.78E-08
Benzonitrile	100-47-0	< 2.69E-08	1.08E-07	< 2.72E-08
Isooctanol	26952-21-6	< 5.83E-07	< 1.81E-06	< 5.85E-07
1,2,4-Trimethylbenzene	95-63-6	1.10E-07	2.54E-06	2.16E-07
3-Methylstyrene	100-80-1	< 4.06E-08	< 1.26E-07	< 4.06E-08
4-Methylstyrene	622-97-9	< 4.38E-08	< 1.36E-07	< 4.41E-08
4-Chlorostyrene	1073-67-2	< 4.54E-08	< 1.40E-07	< 4.56E-08
1-Dodecene	112-41-4	< 2.52E-07	< 6.62E-07	< 2.20E-07
Phthalimide	85-41-6	< 1.66E-07	< 3.15E-07	< 1.16E-07
Diphenylamine	122-39-4	8.28E-08	2.87E-06	8.79E-07
Total Detected		1.04E-05	3.66E-04	2.92E-04
Total with non-detects		< 1.64E-05	< 3.81E-04	< 2.97E-04

TRC

Table G.2-2. Warmup Mill 2 Speciated Semivolatiles

	CAS Numbers	Cmpd. 2	Cmpd. 3	Cmpd. 4
Speciated Semi (lb/lb rubber)				
Pyridine	110-86-1	< 6.38E-09	< 1.98E-08	< 6.03E-09
Phenol	108-95-2	4.65E-08	< 1.41E-08	< 4.28E-09
bis(2-Chloroethyl)ether	111-44-4	< 6.16E-09	< 1.90E-08	< 5.78E-09
2-Chlorophenol	95-57-8	< 4.80E-09	< 1.48E-08	< 4.48E-09
1,3-Dichlorobenzene	541-73-1	< 3.95E-09	< 1.23E-08	< 3.74E-09
1,4-Dichlorobenzene	106-46-7	< 4.07E-09	< 1.26E-08	< 3.84E-09
1,2-Dichlorobenzene	95-50-1	< 4.35E-09	< 1.35E-08	< 4.09E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 5.20E-09	< 1.60E-08	< 4.88E-09
Benzyl alcohol	100-51-6	< 8.42E-09	< 2.59E-08	1.27E-08
2-Methylphenol	95-48-7	1.99E-08	< 1.87E-08	< 5.73E-09
3/4-Methylphenol	108-39-4/106-44-5	5.58E-08	< 1.80E-08	1.13E-08
N-Nitroso-di-n-propylamine	621-64-7	< 8.93E-09	< 2.75E-08	< 8.42E-09
Hexachloroethane	67-72-1	< 8.93E-09	< 2.77E-08	< 8.42E-09
Nitrobenzene	98-95-3	< 5.37E-09	< 1.41E-08	< 4.38E-09
Isophorone	78-59-1	6.50E-09	1.12E-05	3.07E-07
2-Nitrophenol	88-75-5	< 9.43E-09	< 2.48E-08	< 7.77E-09
2,4-Dimethylphenol	105-67-9	3.98E-08	< 1.57E-08	1.78E-07
bis(2-Chloroethoxy)methane	111-91-1	< 5.03E-09	< 1.32E-08	< 4.14E-09
Benzoic acid	65-85-0	4.73E-07	6.21E-07	7.20E-07
2,4-Dichlorophenol	120-83-2	< 5.99E-09	< 1.57E-08	< 4.93E-09
1,2,4-Trichlorobenzene	120-82-1	< 5.25E-09	< 1.39E-08	< 4.33E-09
Naphthalene	91-20-3	1.30E-07	3.73E-07	1.66E-07
4-Chloroaniline	106-47-8	< 4.35E-09	2.94E-07	5.44E-08
Hexachlorobutadiene	87-68-3	< 8.36E-09	< 2.20E-08	< 6.88E-09
4-Chloro-3-methylphenol	59-50-7	< 6.55E-09	< 1.72E-08	< 5.43E-09
2-Methylnaphthalene	91-57-6	4.14E-08	4.51E-07	6.46E-08
Hexachlorocyclopentadiene	77-47-4	< 1.34E-08	< 2.54E-08	< 8.82E-09
2,4,6-Trichlorophenol	88-06-2	< 8.87E-09	< 1.68E-08	< 5.83E-09
2,4,5-Trichlorophenol	95-95-4	< 8.76E-09	< 1.66E-08	< 5.73E-09
2-Chloronaphthalene	91-58-7	< 3.22E-09	< 5.99E-09	< 2.09E-09
2-Nitroaniline	88-74-4	< 1.14E-08	< 2.17E-08	< 7.52E-09
Dimethylphthalate	131-11-3	< 2.66E-09	7.21E-08	< 1.74E-09
2,6-Dinitrotoluene	606-20-2	< 1.10E-08	< 2.09E-08	< 7.27E-09
2,4-Dinitrotoluene	121-14-2	< 7.74E-09	< 1.47E-08	< 5.08E-09
Acenaphthylene	208-96-8	4.03E-08	5.31E-08	5.13E-08
3-Nitroaniline	99-09-2	< 1.01E-08	< 1.92E-08	< 6.63E-09
Acenaphthene	83-32-9	< 3.45E-09	< 6.58E-09	< 2.24E-09
2,4-Dinitrophenol	105-67-9	< 3.06E-08	< 5.81E-08	< 2.01E-08
4-Nitrophenol	100-02-7	< 2.05E-08	< 3.89E-08	< 1.35E-08
Dibenzofuran	132-64-9	1.73E-08	< 4.19E-09	1.06E-08
Diethylphthalate	84-66-2	0.00E+00	9.28E-09	1.25E-09
4-Chlorophenyl-phenylether	70005-72-3	< 6.10E-09	< 1.15E-08	< 3.99E-09
Fluorene	86-73-7	4.01E-09	3.40E-08	1.31E-08
4-Nitroaniline	100-01-6	< 8.59E-09	< 1.63E-08	< 5.63E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 1.69E-08	< 2.92E-08	< 1.04E-08
4-Bromophenyl-phenylether	101-55-3	< 9.77E-09	< 1.68E-08	< 5.98E-09
Hexachlorobenzene	118-74-1	< 7.46E-09	< 1.29E-08	< 4.58E-09
Pentachlorophenol	87-86-5	< 1.21E-08	< 2.08E-08	< 7.37E-09
Phenanthrene	85-01-8	2.60E-09	3.94E-08	9.02E-09
Anthracene	120-12-7	< 1.92E-09	< 3.29E-09	< 1.15E-09
Di-n-butylphthalate	84-74-2	2.49E-09	1.37E-07	1.70E-07
Fluoranthene	206-44-0	< 1.36E-09	5.24E-09	1.20E-09
Pyrene	129-00-0	0.00E+00	1.41E-08	3.14E-09
Butylbenzylphthalate	85-68-7	0.00E+00	1.95E-09	2.49E-10
3,3'-Dichlorobenzidine	91-94-1	< 2.71E-09	< 7.63E-09	< 2.29E-09
bis(2-Ethylhexyl)phthalate	117-81-7	3.25E-08	8.63E-07	1.09E-07
Benzo(a)anthracene	56-55-3	< 1.02E-09	< 2.99E-09	< 8.97E-10

TRC

Table G.2-2. Warmup Mill 2 Speciated Semivolatiles

	CAS Numbers	Cmpd. 2	Cmpd. 3	Cmpd. 4
Speciated Semi (lb/lb rubber)				
Chrysene	218-01-9	< 1.13E-09	< 3.14E-09	< 9.47E-10
Di-n-octylphthalate	117-84-0	< 6.78E-10	< 1.80E-09	< 5.48E-10
Benzo(b)fluoranthene	205-99-2	< 9.60E-10	< 2.69E-09	< 7.97E-10
Benzo(k)fluoranthene	207-08-9	< 1.02E-09	< 2.69E-09	< 8.47E-10
Benzo(a)pyrene	50-32-8	< 1.02E-09	< 2.84E-09	< 8.47E-10
Indeno(1,2,3-cd)pyrene	193-39-5	< 9.60E-10	< 2.54E-09	< 7.97E-10
Dibenz(a,h)anthracene	53-90-3	< 1.24E-09	< 3.29E-09	< 9.96E-10
Benzo(g,h,i)perylene	191-24-2	< 1.07E-09	< 2.84E-09	< 8.47E-10
n-Nitrosodimethylamine	62-75-9	< 9.94E-09	< 3.08E-08	< 9.42E-09
Cumene	98-82-8	< 2.37E-09	1.47E-08	1.44E-09
Aniline	62-53-3	7.50E-08	5.32E-06	3.48E-06
Benzyl Chloride	100-44-7	< 3.22E-09	< 9.88E-09	< 3.04E-09
Acetophenone	98-86-2	< 5.08E-09	2.80E-07	2.84E-08
n-Nitrosomorpholine	59-89-2	< 8.70E-09	< 2.69E-08	< 8.22E-09
o-Toluidine	95-53-4	< 4.29E-09	< 1.32E-08	< 4.04E-09
N,N-Dimethylaniline	121-69-7	< 3.79E-09	< 1.00E-08	< 3.14E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 9.32E-09	< 2.89E-08	< 8.82E-09
o-Anisidine	90-04-0	< 6.89E-09	< 1.81E-08	< 5.68E-09
1,4-Phenylenediamine	106-50-3	< 9.43E-09	< 2.48E-08	< 7.77E-09
N,N-Diethylaniline	91-66-7	< 2.99E-09	< 9.13E-09	< 2.79E-09
a,a,a-Trichlorotoluene	98-07-7	< 4.29E-09	< 1.12E-08	< 3.54E-09
Hydroquinone	123-31-9	< 7.51E-09	< 1.98E-08	< 6.18E-09
2-Chloroacetophenone	1341-24-8	< 2.94E-09	< 7.78E-09	< 2.39E-09
Biphenyl	92-52-4	3.55E-08	3.65E-08	4.16E-08
Trifluralin	1582-09-8	< 1.28E-08	< 2.44E-08	< 8.47E-09
4-Aminobiphenyl	92-67-1	< 2.49E-09	< 4.34E-09	< 1.54E-09
Pentachloronitrobenzene	82-68-8	< 2.17E-08	< 3.74E-08	< 1.33E-08
4-Nitrobiphenyl	92-93-3	< 4.69E-09	< 8.08E-09	< 2.84E-09
Benzidine	92-87-5	< 2.32E-09	< 6.58E-09	< 1.99E-09
4,4'-Methylenedianiline	101-77-9	< 3.22E-09	< 9.13E-09	< 2.74E-09
Dimethylaminoazobenzene	60-11-7	< 2.66E-09	< 7.63E-09	< 2.29E-09
3,3'-Dimethylbenzidine	119-93-7	< 1.58E-09	< 4.49E-09	< 1.35E-09
3,3'-Dimethoxybenzidine	119-90-4	< 3.79E-09	< 1.08E-08	< 3.29E-09
Methylene bis-chloroaniline	101-14-4	< 5.25E-09	< 1.50E-08	< 4.48E-09
3-Furaldehyde	498-60-2	< 9.60E-09	< 2.96E-08	< 9.07E-09
2-Furaldehyde	98-01-1	1.85E-08	4.25E-08	< 7.77E-09
Cyclohexylamine	108-91-8	< 4.69E-09	1.76E-05	2.38E-05
N-Nitrosodiethylamine	55-18-5	< 1.19E-08	5.07E-08	< 1.12E-08
Cyclohexanone	108-94-1	3.03E-08	9.26E-07	3.50E-08
1,3-Cyclooctadiene	1700-10-3	< 6.10E-09	< 1.89E-08	< 5.78E-09
1,5-Cyclooctadiene	111-78-4	< 1.38E-08	< 4.26E-08	< 1.31E-08
Camphene	79-92-5	< 6.61E-09	< 2.03E-08	< 6.23E-09
Benzaldehyde	100-52-7	2.29E-08	< 2.23E-08	< 6.83E-09
Benzonitrile	100-47-0	< 2.88E-09	1.15E-08	< 2.74E-09
Isooctanol	26952-21-6	< 6.24E-08	< 1.93E-07	< 5.89E-08
1,2,4-Trimethylbenzene	95-63-6	1.18E-08	2.71E-07	2.17E-08
3-Methylstyrene	100-80-1	< 4.35E-09	< 1.35E-08	< 4.09E-09
4-Methylstyrene	622-97-9	< 4.69E-09	< 1.45E-08	< 4.43E-09
4-Chlorostyrene	1073-67-2	< 4.86E-09	< 1.50E-08	< 4.58E-09
1-Dodecene	112-41-4	< 2.69E-08	< 7.06E-08	< 2.21E-08
Phthalimide	85-41-6	< 1.77E-08	< 3.37E-08	< 1.17E-08
Diphenylamine	122-39-4	8.87E-09	3.06E-07	8.84E-08
Total Detected		1.11E-06	3.91E-05	2.94E-05
Total with non-detects		< 1.75E-06	< 4.06E-05	< 2.99E-05

TRC

Table G.2-3. Warmup Mill 2 Speciated Volatiles

COMPOUND	CAS Numbers	Cmpnd. 2	Cmpnd. 3	Cmpnd. 4
Speciated Vol. (µg/m³)				
1-Heptene	592-76-7	8.17	< 1.17	3.38
1-Hexene	592-41-6	< 2.33	< 1.17	< 1.17
1-Octene	111-60-0	< 2.33	< 1.17	< 1.17
1-Pentene	109-67-1	< 2.33	< 1.17	23.34
1,1-Dichloroethane	00075-34-3	< 16.00	< 8.00	< 8.00
1,1-Dichloroethene	00075-35-4	< 16.00	< 8.00	< 8.00
1,1,1-Trichloroethane	00071-55-6	3.60	< 8.00	< 8.00
1,1,2-Trichloroethane	00079-00-5	< 16.00	< 8.00	< 8.00
1,1,2,2-Tetrachloroethane	00079-34-5	< 16.00	< 8.00	< 8.00
1,2-Dibromo-3-Chloropropane	00096-12-8	< 32.00	< 16.00	< 16.00
1,2-Dibromoethane	00106-93-4	< 16.00	< 8.00	< 8.00
1,2-Dichlorobenzene	00095-50-1	< 16.00	< 8.00	< 8.00
1,2-Dichloroethane	00107-06-2	4.40	< 8.00	< 8.00
1,2-Dichloropropane	00078-87-5	< 16.00	< 8.00	< 8.00
1,2,4-Trimethylbenzene	95-63-6	30.00	< 5.56	< 5.56
1,3-Butadiene	106-99-0	< 2.25	< 1.13	< 1.13
1,3-Dichlorobenzene	00541-73-1	< 16.00	< 8.00	< 8.00
1,3,5-Trimethylbenzene	108-67-8	28.89	< 5.56	16.67
1,4-Dichlorobenzene	00106-46-7	< 16.00	< 8.00	< 8.00
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-5	< 11.17	< 5.58	< 5.58
1,4-Dioxane	00123-91-1	< 64.00	< 32.00	< 32.00
2-Butanone	00078-93-3	88.00	8.65	49.00
2-Hexanone	00591-78-6	< 16.00	< 8.00	< 8.00
2-Methyl-1-butene	563-46-2	< 2.33	< 1.17	< 1.17
2-Methyl-2-butene	513-35-9	< 2.33	< 1.17	15.75
2-Methyl-2-pentene	625-27-4	< 2.33	< 1.17	< 1.17
2-Methylheptane	592-27-8	5.94	2.97	2.55
2-Methylhexane	591-76-4	3.16	< 1.19	3.63
2-Methylpentane	107-83-5	35.25	7.77	15.53
2,2-Dimethylbutane	75-83-2	8.36	< 1.19	< 1.19
2,2-Dimethylpropane	463-82-1	< 2.40	< 1.20	< 1.20
2,3-Dimethylpentane	565-59-3	< 2.38	< 1.19	< 1.19
2,3,4-Trimethylpentane	565-75-3	< 2.38	< 1.19	< 1.19
2,4-Dimethylhexane	589-43-5	< 2.38	< 1.19	4.40
3-Methylhexane	589-34-4	6.55	< 1.19	3.69
3-Methylpentane	96-14-0	32.26	5.08	11.35
4-Methyl-1-pentene	691-37-2	< 2.33	3.62	5.83
4-Methyl-2-Pentanone	00108-10-1	17.00	130.00	1100.00
Acetone	00067-64-1	1500.00	40.00	190.00
Acetonitrile	01722-09-4	< 32.00	< 16.00	< 16.00
Acetylene	74-86-2	34.66	5.14	18.95
Acrolein	00107-02-8	< 32.00	< 16.00	< 16.00
Acrylonitrile	00107-13-1	14.00	< 16.00	< 16.00
Allyl Chloride	00107-05-1	< 32.00	< 16.00	< 16.00
a-Pinene	7785-70-8	< 2.27	< 1.13	< 1.13
Benzene	71-43-2	6.50	2.00	6.50
Benzyl Chloride	00100-44-7	< 32.00	< 16.00	< 16.00
b-Pinene	18172-67-3	11.90	< 5.67	< 5.67
Bromodichloromethane	00075-27-4	< 16.00	< 8.00	< 8.00
Bromoform	00075-25-2	< 16.00	< 8.00	< 8.00
Bromomethane	00074-83-9	< 16.00	< 8.00	< 8.00
C11-C12 Branched Alkane		500.00	35.00	260.00
C9H12 Alkyl Substituted Benzene				50.00
Carbon Disulfide	00075-15-0	64.00	11.00	30.00
Carbon Tetrachloride	00056-23-5	< 16.00	< 8.00	< 8.00
Chlorobenzene	00108-90-7	< 16.00	< 8.00	< 8.00
Chlorodibromomethane	00124-48-1	< 16.00	< 8.00	< 8.00
Chloroethane	00075-00-3	< 16.00	< 8.00	< 8.00
Chloroform	00067-66-3	< 16.00	< 8.00	< 8.00
Chloromethane	00074-87-3	< 16.00	< 8.00	< 8.00
cis-1,2-Dichloroethene	00156-59-2	< 16.00	< 8.00	< 8.00
cis-1,3-Dichloropropene	10061-01-5	< 16.00	< 8.00	< 8.00

TRC

Table G.2-3. Warmup Mill 2 Speciated Volatiles

COMPOUND	CAS Numbers	Cmpnd. 2	Cmpnd. 3	Cmpnd. 4
Speciated Vol. (µg/m³)				
cis-2-Butene	590-18-1	< 2.33	< 1.17	< 1.17
cis-2-Hexene	7688-21-3	< 2.33	< 1.17	< 1.17
cis-2-Pentene	627-20-3	14.59	7.59	4.20
Cumene	98-82-8	< 2.22	< 1.11	< 1.11
Cyclobutane				40.00
Cyclohexane	110-82-7	49.01	< 1.17	4.32
Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-	7.80	2.99	5.46
Cyclopentene	142-29-0	15.87	< 1.13	< 1.13
Decane		200.00		30.00
Dichlorodifluoromethane	00075-71-8	< 16.00	< 8.00	< 8.00
d-Limonene	5989-27-5	< 11.33	< 5.67	< 5.67
Epichlorohydrin	00106-89-8	< 32.00	< 16.00	< 16.00
Ethane	74-84-0	8.13	3.19	6.88
Ethylacetylene	107-00-6	< 2.25	< 1.13	< 1.13
Ethylbenzene	100-41-4	12.14	< 1.10	9.38
Ethylene	74-85-1	< 2.33	< 1.17	2.57
Hexachlorobutadiene	00087-68-3	< 32.00	< 16.00	< 16.00
Isobutane	75-28-5	< 2.42	2.84	6.04
Isobutylene + 1-Butene	115-11-7/106-9	43.76	9.92	44.34
Isooctane	540-84-1	< 2.38	3.39	4.22
Isopentane	78-78-4	< 2.40	21.01	96.04
Isoprene	78-79-5	< 2.27	< 1.13	< 1.13
Isopropyl Alcohol				100.00
Methylacetylene	74-99-7	< 2.17	< 1.08	< 1.08
Methylcyclohexane	108-87-2	25.67	5.78	29.17
Methylcyclopentane	96-37-7	26.84	5.13	8.75
Methylene Chloride	00075-09-2	110.00	47.00	82.00
Methylpentane		160.00		40.00
m-Ethyltoluene	620-14-4	17.78	< 1.11	< 1.11
m-Xylene + p-Xylene	108-38-3/106-4	66.24	3.97	30.91
n-Butane	106-97-8	9.67	10.28	10.88
n-Decane	124-18-5	55.04	5.92	8.88
n-Heptane	142-82-5	15.48	2.92	6.55
n-Hexane	110-54-3	77.67	13.74	29.87
n-Nonane	111-84-2	27.27	< 1.19	2.49
n-Octane	111-65-9	< 2.38	< 1.19	< 1.19
n-Pentane	109-66-0	11.40	2.76	5.70
n-Propylbenzene	103-65-1	< 2.22	< 1.11	< 1.11
o-Ethyltoluene	611-14-3	16.67	< 5.56	< 5.56
o-Xylene	95-47-6	37.54	< 1.10	16.56
p-Cymene	99-87-6	< 11.17	< 5.58	5.58
p-Ethyltoluene	622-96-8	< 2.22	< 1.11	< 1.11
Propane	74-98-6	11.62	13.45	7.95
Propylene	115-07-1	< 2.33	< 1.17	< 1.17
Propylene Oxide	00075-56-9	< 32.00	< 16.00	< 16.00
Styrene	100-42-5	16.79	< 1.08	< 1.08
t-Butyl Methyl Ether	01634-04-4	< 32.00	< 16.00	< 16.00
Tetrachloroethene	00127-18-4	9.10	< 8.00	< 8.00
Toluene	108-88-3	35.59	42.16	23.54
trans-1,2-Dichloroethene	00156-60-5	< 16.00	< 8.00	< 8.00
trans-1,2-Dichloropropene	10061-01-5	< 16.00	< 8.00	< 8.00
trans-2-Butene	624-64-6	< 2.33	< 1.17	< 1.17
trans-2-Hexene	4050-45-7	5.83	< 1.17	< 1.17
trans-2-Pentene	646-04-8	< 2.33	< 1.17	< 1.17
Trichloroethene	00079-01-6	< 16.00	< 8.00	< 8.00
Trichlorofluoromethane	00075-69-4	25.00	5.35	16.00
Trichlortrifluoroethane	00076-13-1	< 16.00	< 8.00	< 8.00
Undecane		100.00		40.00
Vinyl Acetate	00108-05-4	< 16.00	< 8.00	< 8.00
Vinyl Chloride	00075-01-4	< 16.00	< 8.00	< 8.00
Total Detected		3615.15	460.61	2528.90
Total with non-detects		< 4516.13	< 982.47	< 3026.82

TRC

Table G.2-3. Warmup Mill 2 Speciated Volatiles

COMPOUND	CAS Numbers	Cmpnd. 2	Cmpnd. 3	Cmpnd. 4
Speciated Vol. (lbs/hr)				
1-Heptene	592-76-7	7.04E-07	< 9.62E-08	2.79E-07
1-Hexene	592-41-6	< 2.01E-07	< 9.62E-08	< 9.62E-08
1-Octene	111-60-0	< 2.01E-07	< 9.62E-08	< 9.62E-08
1-Pentene	109-67-1	< 2.01E-07	< 9.62E-08	1.92E-06
1,1-Dichloroethane	00075-34-3	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,1-Dichloroethene	00075-35-4	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,1,1-Trichloroethane	00071-55-6	3.10E-07	< 6.59E-07	< 6.59E-07
1,1,2-Trichloroethane	00079-00-5	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,1,2,2-Tetrachloroethane	00079-34-5	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,2-Dibromo-3-Chloropropane	00096-12-8	< 2.76E-06	< 1.32E-06	< 1.32E-06
1,2-Dibromoethane	00106-93-4	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,2-Dichlorobenzene	00095-50-1	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,2-Dichloroethane	00107-06-2	3.79E-07	< 6.59E-07	< 6.59E-07
1,2-Dichloropropane	00078-87-5	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,2,4-Trimethylbenzene	95-63-6	2.58E-06	< 4.58E-07	< 4.58E-07
1,3-Butadiene	106-99-0	< 1.94E-07	< 9.27E-08	< 9.27E-08
1,3-Dichlorobenzene	00541-73-1	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,3,5-Trimethylbenzene	108-67-8	2.49E-06	< 4.58E-07	1.37E-06
1,4-Dichlorobenzene	00106-46-7	< 1.38E-06	< 6.59E-07	< 6.59E-07
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-5	< 9.62E-07	< 4.60E-07	< 4.60E-07
1,4-Dioxane	00123-91-1	< 5.51E-06	< 2.64E-06	< 2.64E-06
2-Butanone	00078-93-3	7.58E-06	7.13E-07	4.04E-06
2-Hexanone	00591-78-6	< 1.38E-06	< 6.59E-07	< 6.59E-07
2-Methyl-1-butene	563-46-2	< 2.01E-07	< 9.62E-08	< 9.62E-08
2-Methyl-2-butene	513-35-9	< 2.01E-07	< 9.62E-08	1.30E-06
2-Methyl-2-pentene	625-27-4	< 2.01E-07	< 9.62E-08	< 9.62E-08
2-Methylheptane	592-27-8	5.12E-07	2.45E-07	2.10E-07
2-Methylhexane	591-76-4	2.72E-07	< 9.81E-08	2.99E-07
2-Methylpentane	107-83-5	3.04E-06	6.40E-07	1.28E-06
2,2-Dimethylbutane	75-83-2	7.21E-07	< 9.85E-08	< 9.85E-08
2,2-Dimethylpropane	463-82-1	< 2.07E-07	< 9.89E-08	< 9.89E-08
2,3-Dimethylpentane	565-59-3	< 2.05E-07	< 9.81E-08	< 9.81E-08
2,3,4-Trimethylpentane	565-75-3	< 2.05E-07	< 9.79E-08	< 9.79E-08
2,4-Dimethylhexane	589-43-5	< 2.05E-07	< 9.79E-08	3.62E-07
3-Methylhexane	589-34-4	5.64E-07	< 9.81E-08	3.04E-07
3-Methylpentane	96-14-0	2.78E-06	4.19E-07	9.36E-07
4-Methyl-1-pentene	691-37-2	< 2.01E-07	2.98E-07	4.81E-07
4-Methyl-2-Pentanone	00108-10-1	1.46E-06	1.07E-05	9.07E-05
Acetone	00067-64-1	1.29E-04	3.30E-06	1.57E-05
Acetonitrile	01722-09-4	< 2.76E-06	< 1.32E-06	< 1.32E-06
Acetylene	74-86-2	2.99E-06	4.24E-07	1.56E-06
Acrolein	00107-02-8	< 2.76E-06	< 1.32E-06	< 1.32E-06
Acrylonitrile	00107-13-1	1.21E-06	< 1.32E-06	< 1.32E-06
Allyl Chloride	00107-05-1	< 2.76E-06	< 1.32E-06	< 1.32E-06
a-Pinene	7785-70-8	< 1.95E-07	< 9.34E-08	< 9.34E-08
Benzene	71-43-2	5.60E-07	1.65E-07	5.36E-07
Benzyl Chloride	00100-44-7	< 2.76E-06	< 1.32E-06	< 1.32E-06
b-Pinene	18172-67-3	1.03E-06	< 4.67E-07	< 4.67E-07
Bromodichloromethane	00075-27-4	< 1.38E-06	< 6.59E-07	< 6.59E-07
Bromoform	00075-25-2	< 1.38E-06	< 6.59E-07	< 6.59E-07
Bromomethane	00074-83-9	< 1.38E-06	< 6.59E-07	< 6.59E-07
C11-C12 Branched Alkane		4.31E-05	2.88E-06	2.14E-05
C9H12 Alkyl Substituted Benzene				4.12E-06
Carbon Disulfide	00075-15-0	5.51E-06	9.07E-07	2.47E-06
Carbon Tetrachloride	00056-23-5	< 1.38E-06	< 6.59E-07	< 6.59E-07
Chlorobenzene	00108-90-7	< 1.38E-06	< 6.59E-07	< 6.59E-07
Chlorodibromomethane	00124-48-1	< 1.38E-06	< 6.59E-07	< 6.59E-07
Chloroethane	00075-00-3	< 1.38E-06	< 6.59E-07	< 6.59E-07
Chloroform	00067-66-3	< 1.38E-06	< 6.59E-07	< 6.59E-07
Chloromethane	00074-87-3	< 1.38E-06	< 6.59E-07	< 6.59E-07
cis-1,2-Dichloroethene	00156-59-2	< 1.38E-06	< 6.59E-07	< 6.59E-07
cis-1,3-Dichloropropene	10061-01-5	< 1.38E-06	< 6.59E-07	< 6.59E-07

TRC

Table G.2-3. Warmup Mill 2 Speciated Volatiles

COMPOUND	CAS Numbers	Cmpnd. 2	Cmpnd. 3	Cmpnd. 4
Speciated Vol. (lbs/hr)				
cis-2-Butene	590-18-1	< 2.01E-07	< 9.62E-08	< 9.62E-08
cis-2-Hexene	7688-21-3	< 2.01E-07	< 9.62E-08	< 9.62E-08
cis-2-Pentene	627-20-3	1.26E-06	6.25E-07	3.46E-07
Cumene	98-82-8	< 1.91E-07	< 9.16E-08	< 9.16E-08
Cyclobutane				3.30E-06
Cyclohexane	110-82-7	4.22E-06	< 9.62E-08	3.56E-07
Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-	6.72E-07	2.46E-07	4.50E-07
Cyclopentene	142-29-0	1.37E-06	< 9.34E-08	< 9.34E-08
Decane		1.72E-05		2.47E-06
Dichlorodifluoromethane	00075-71-8	< 1.38E-06	< 6.59E-07	< 6.59E-07
d-Limonene	5989-27-5	< 9.77E-07	< 4.67E-07	< 4.67E-07
Epichlorohydrin	00106-89-8	< 2.76E-06	< 1.32E-06	< 1.32E-06
Ethane	74-84-0	7.00E-07	2.63E-07	5.67E-07
Ethylacetylene	107-00-6	< 1.94E-07	< 9.27E-08	< 9.27E-08
Ethylbenzene	100-41-4	1.05E-06	< 9.10E-08	7.73E-07
Ethylene	74-85-1	< 2.01E-07	< 9.62E-08	2.12E-07
Hexachlorobutadiene	00087-68-3	< 2.76E-06	< 1.32E-06	< 1.32E-06
Isobutane	75-28-5	< 2.08E-07	2.34E-07	4.98E-07
Isobutylene + 1-Butene	115-11-7/106-9	3.77E-06	8.17E-07	3.65E-06
Isooctane	540-84-1	< 2.05E-07	2.79E-07	3.48E-07
Isopentane	78-78-4	< 2.07E-07	1.73E-06	7.91E-06
Isoprene	78-79-5	< 1.95E-07	< 9.34E-08	< 9.34E-08
Isopropyl Alcohol				8.24E-06
Methylacetylene	74-99-7	< 1.87E-07	< 8.93E-08	< 8.93E-08
Methylcyclohexane	108-87-2	2.21E-06	4.76E-07	2.40E-06
Methylcyclopentane	96-37-7	2.31E-06	4.23E-07	7.21E-07
Methylene Chloride	00075-09-2	9.48E-06	3.87E-06	6.76E-06
Methylpentane		1.38E-05		3.30E-06
m-Ethyltoluene	620-14-4	1.53E-06	< 9.16E-08	< 9.16E-08
m-Xylene + p-Xylene	108-38-3/106-4	5.71E-06	3.28E-07	2.55E-06
n-Butane	106-97-8	8.33E-07	8.47E-07	8.97E-07
n-Decane	124-18-5	4.74E-06	4.88E-07	7.32E-07
n-Heptane	142-82-5	1.33E-06	2.40E-07	5.40E-07
n-Hexane	110-54-3	6.69E-06	1.13E-06	2.46E-06
n-Nonane	111-84-2	2.35E-06	< 9.77E-08	2.05E-07
n-Octane	111-65-9	< 2.05E-07	< 9.79E-08	< 9.79E-08
n-Pentane	109-66-0	9.83E-07	2.28E-07	4.70E-07
n-Propylbenzene	103-65-1	< 1.91E-07	< 9.16E-08	< 9.16E-08
o-Ethyltoluene	611-14-3	1.44E-06	< 4.58E-07	< 4.58E-07
o-Xylene	95-47-6	3.23E-06	< 9.10E-08	1.36E-06
p-Cymene	99-87-6	< 9.62E-07	< 4.60E-07	4.60E-07
p-Ethyltoluene	622-96-8	< 1.91E-07	< 9.16E-08	< 9.16E-08
Propane	74-98-6	1.00E-06	1.11E-06	6.55E-07
Propylene	115-07-1	< 2.01E-07	< 9.62E-08	< 9.62E-08
Propylene Oxide	00075-56-9	< 2.76E-06	< 1.32E-06	< 1.32E-06
Styrene	100-42-5	1.45E-06	< 8.93E-08	< 8.93E-08
t-Butyl Methyl Ether	01634-04-4	< 2.76E-06	< 1.32E-06	< 1.32E-06
Tetrachloroethene	00127-18-4	7.84E-07	< 6.59E-07	< 6.59E-07
Toluene	108-88-3	3.07E-06	3.47E-06	1.94E-06
trans-1,2-Dichloroethene	00156-60-5	< 1.38E-06	< 6.59E-07	< 6.59E-07
trans-1,2-Dichloropropene	10061-01-5	< 1.38E-06	< 6.59E-07	< 6.59E-07
trans-2-Butene	624-64-6	< 2.01E-07	< 9.62E-08	< 9.62E-08
trans-2-Hexene	4050-45-7	5.03E-07	< 9.62E-08	< 9.62E-08
trans-2-Pentene	646-04-8	< 2.01E-07	< 9.62E-08	< 9.62E-08
Trichloroethene	00079-01-6	< 1.38E-06	< 6.59E-07	< 6.59E-07
Trichlorofluoromethane	00075-69-4	2.15E-06	4.41E-07	1.32E-06
Trichlortrifluoroethane	00076-13-1	< 1.38E-06	< 6.59E-07	< 6.59E-07
Undecane		8.62E-06		3.30E-06
Vinyl Acetate	00108-05-4	< 1.38E-06	< 6.59E-07	< 6.59E-07
Vinyl Chloride	00075-01-4	< 1.38E-06	< 6.59E-07	< 6.59E-07
Total Detected		3.11E-04	3.80E-05	2.08E-04
Total with non-detects		< 3.89E-04	< 8.10E-05	< 2.49E-04

TRC

Table G.2-3. Warmup Mill 2 Speciated Volatiles

COMPOUND	CAS Numbers	Cmpnd. 2	Cmpnd. 3	Cmpnd. 4
Speciated Vol. (lbs/lb rubber)				
1-Heptene	592-76-7	7.54E-08	< 1.03E-08	2.81E-08
1-Hexene	592-41-6	< 2.15E-08	< 1.03E-08	< 9.68E-09
1-Octene	111-60-0	< 2.15E-08	< 1.03E-08	< 9.68E-09
1-Pentene	109-67-1	< 2.15E-08	< 1.03E-08	1.94E-07
1,1-Dichloroethane	00075-34-3	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,1-Dichloroethene	00075-35-4	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,1,1-Trichloroethane	00071-55-6	3.32E-08	< 7.04E-08	< 6.63E-08
1,1,2-Trichloroethane	00079-00-5	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,1,2,2-Tetrachloroethane	00079-34-5	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,2-Dibromo-3-Chloropropane	00096-12-8	< 2.95E-07	< 1.41E-07	< 1.33E-07
1,2-Dibromoethane	00106-93-4	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,2-Dichlorobenzene	00095-50-1	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,2-Dichloroethane	00107-06-2	4.06E-08	< 7.04E-08	< 6.63E-08
1,2-Dichloropropane	00078-87-5	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,2,4-Trimethylbenzene	95-63-6	2.77E-07	< 4.89E-08	< 4.61E-08
1,3-Butadiene	106-99-0	< 2.08E-08	< 9.90E-09	< 9.33E-09
1,3-Dichlorobenzene	00541-73-1	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,3,5-Trimethylbenzene	108-67-8	2.66E-07	< 4.89E-08	1.38E-07
1,4-Dichlorobenzene	00106-46-7	< 1.48E-07	< 7.04E-08	< 6.63E-08
1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-5	< 1.03E-07	< 4.91E-08	< 4.63E-08
1,4-Dioxane	00123-91-1	< 5.90E-07	< 2.81E-07	< 2.65E-07
2-Butanone	00078-93-3	8.12E-07	7.61E-08	4.06E-07
2-Hexanone	00591-78-6	< 1.48E-07	< 7.04E-08	< 6.63E-08
2-Methyl-1-butene	563-46-2	< 2.15E-08	< 1.03E-08	< 9.68E-09
2-Methyl-2-butene	513-35-9	< 2.15E-08	< 1.03E-08	1.31E-07
2-Methyl-2-pentene	625-27-4	< 2.15E-08	< 1.03E-08	< 9.68E-09
2-Methylheptane	592-27-8	5.48E-08	2.61E-08	2.12E-08
2-Methylhexane	591-76-4	2.91E-08	< 1.05E-08	3.01E-08
2-Methylpentane	107-83-5	3.25E-07	6.83E-08	1.29E-07
2,2-Dimethylbutane	75-83-2	7.72E-08	< 1.05E-08	< 9.91E-09
2,2-Dimethylpropane	463-82-1	< 2.21E-08	< 1.06E-08	< 9.95E-09
2,3-Dimethylpentane	565-59-3	< 2.20E-08	< 1.05E-08	< 9.87E-09
2,3,4-Trimethylpentane	565-75-3	< 2.19E-08	< 1.04E-08	< 9.85E-09
2,4-Dimethylhexane	589-43-5	< 2.19E-08	< 1.04E-08	3.64E-08
3-Methylhexane	589-34-4	6.04E-08	< 1.05E-08	3.06E-08
3-Methylpentane	96-14-0	2.98E-07	4.47E-08	9.41E-08
4-Methyl-1-pentene	691-37-2	< 2.15E-08	3.18E-08	4.84E-08
4-Methyl-2-Pentanone	00108-10-1	1.57E-07	1.14E-06	9.12E-06
Acetone	00067-64-1	1.38E-05	3.52E-07	1.58E-06
Acetonitrile	01722-09-4	< 2.95E-07	< 1.41E-07	< 1.33E-07
Acetylene	74-86-2	3.20E-07	4.52E-08	1.57E-07
Acrolein	00107-02-8	< 2.95E-07	< 1.41E-07	< 1.33E-07
Acrylonitrile	00107-13-1	1.29E-07	< 1.41E-07	< 1.33E-07
Allyl Chloride	00107-05-1	< 2.95E-07	< 1.41E-07	< 1.33E-07
a-Pinene	7785-70-8	< 2.09E-08	< 9.97E-09	< 9.40E-09
Benzene	71-43-2	5.99E-08	1.76E-08	5.39E-08
Benzyl Chloride	00100-44-7	< 2.95E-07	< 1.41E-07	< 1.33E-07
b-Pinene	18172-67-3	1.10E-07	< 4.98E-08	< 4.70E-08
Bromodichloromethane	00075-27-4	< 1.48E-07	< 7.04E-08	< 6.63E-08
Bromoform	00075-25-2	< 1.48E-07	< 7.04E-08	< 6.63E-08
Bromomethane	00074-83-9	< 1.48E-07	< 7.04E-08	< 6.63E-08
C11-C12 Branched Alkane		4.61E-06	3.08E-07	2.16E-06
C9H12 Alkyl Substituted Benzene				4.15E-07
Carbon Disulfide	00075-15-0	5.90E-07	9.67E-08	2.49E-07
Carbon Tetrachloride	00056-23-5	< 1.48E-07	< 7.04E-08	< 6.63E-08
Chlorobenzene	00108-90-7	< 1.48E-07	< 7.04E-08	< 6.63E-08
Chlorodibromomethane	00124-48-1	< 1.48E-07	< 7.04E-08	< 6.63E-08
Chloroethane	00075-00-3	< 1.48E-07	< 7.04E-08	< 6.63E-08
Chloroform	00067-66-3	< 1.48E-07	< 7.04E-08	< 6.63E-08
Chloromethane	00074-87-3	< 1.48E-07	< 7.04E-08	< 6.63E-08
cis-1,2-Dichloroethene	00156-59-2	< 1.48E-07	< 7.04E-08	< 6.63E-08
cis-1,3-Dichloropropene	10061-01-5	< 1.48E-07	< 7.04E-08	< 6.63E-08

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Table G.2-3. Warmup Mill 2 Speciated Volatiles

COMPOUND	CAS Numbers	Cmpnd. 2	Cmpnd. 3	Cmpnd. 4
Speciated Vol. (lbs/lb rubber)				
cis-2-Butene	590-18-1	< 2.15E-08	< 1.03E-08	< 9.68E-09
cis-2-Hexene	7688-21-3	< 2.15E-08	< 1.03E-08	< 9.68E-09
cis-2-Pentene	627-20-3	1.35E-07	6.67E-08	3.48E-08
Cumene	98-82-8	< 2.05E-08	< 9.77E-09	< 9.21E-09
Cyclobutane				3.32E-07
Cyclohexane	110-82-7	4.52E-07	< 1.03E-08	3.58E-08
Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-	7.20E-08	2.63E-08	4.53E-08
Cyclopentene	142-29-0	1.46E-07	< 9.97E-09	< 9.40E-09
Decane		1.84E-06		2.49E-07
Dichlorodifluoromethane	00075-71-8	< 1.48E-07	< 7.04E-08	< 6.63E-08
d-Limonene	5989-27-5	< 1.05E-07	< 4.98E-08	< 4.70E-08
Epichlorohydrin	00106-89-8	< 2.95E-07	< 1.41E-07	< 1.33E-07
Ethane	74-84-0	7.50E-08	2.81E-08	5.70E-08
Ethylacetylene	107-00-6	< 2.08E-08	< 9.90E-09	< 9.33E-09
Ethylbenzene	100-41-4	1.12E-07	< 9.71E-09	7.78E-08
Ethylene	74-85-1	< 2.15E-08	< 1.03E-08	2.13E-08
Hexachlorobutadiene	00087-68-3	< 2.95E-07	< 1.41E-07	< 1.33E-07
Isobutane	75-28-5	< 2.23E-08	2.50E-08	5.01E-08
Isobutylene + 1-Butene	115-11-7/106-9	4.04E-07	8.72E-08	3.68E-07
Isooctane	540-84-1	< 2.19E-08	2.98E-08	3.50E-08
Isopentane	78-78-4	< 2.21E-08	1.85E-07	7.96E-07
Isoprene	78-79-5	< 2.09E-08	< 9.97E-09	< 9.40E-09
Isopropyl Alcohol				8.29E-07
Methylacetylene	74-99-7	< 2.00E-08	< 9.53E-09	< 8.98E-09
Methylcyclohexane	108-87-2	2.37E-07	5.08E-08	2.42E-07
Methylcyclopentane	96-37-7	2.48E-07	4.52E-08	7.26E-08
Methylene Chloride	00075-09-2	1.01E-06	4.13E-07	6.80E-07
Methylpentane		1.48E-06		3.32E-07
m-Ethyltoluene	620-14-4	1.64E-07	< 9.77E-09	< 9.21E-09
m-Xylene + p-Xylene	108-38-3/106-4	6.11E-07	3.50E-08	2.56E-07
n-Butane	106-97-8	8.92E-08	9.04E-08	9.02E-08
n-Decane	124-18-5	5.08E-07	5.21E-08	7.36E-08
n-Heptane	142-82-5	1.43E-07	2.57E-08	5.43E-08
n-Hexane	110-54-3	7.16E-07	1.21E-07	2.48E-07
n-Nonane	111-84-2	2.52E-07	< 1.04E-08	2.06E-08
n-Octane	111-65-9	< 2.19E-08	< 1.04E-08	< 9.85E-09
n-Pentane	109-66-0	1.05E-07	2.43E-08	4.73E-08
n-Propylbenzene	103-65-1	< 2.05E-08	< 9.77E-09	< 9.21E-09
o-Ethyltoluene	611-14-3	1.54E-07	< 4.89E-08	< 4.61E-08
o-Xylene	95-47-6	3.46E-07	< 9.71E-09	1.37E-07
p-Cymene	99-87-6	< 1.03E-07	< 4.91E-08	4.63E-08
p-Ethyltoluene	622-96-8	< 2.05E-08	< 9.77E-09	< 9.21E-09
Propane	74-98-6	1.07E-07	1.18E-07	6.59E-08
Propylene	115-07-1	< 2.15E-08	< 1.03E-08	< 9.68E-09
Propylene Oxide	00075-56-9	< 2.95E-07	< 1.41E-07	< 1.33E-07
Styrene	100-42-5	1.55E-07	< 9.53E-09	< 8.98E-09
t-Butyl Methyl Ether	01634-04-4	< 2.95E-07	< 1.41E-07	< 1.33E-07
Tetrachloroethene	00127-18-4	8.39E-08	< 7.04E-08	< 6.63E-08
Toluene	108-88-3	3.28E-07	3.71E-07	1.95E-07
trans-1,2-Dichloroethene	00156-60-5	< 1.48E-07	< 7.04E-08	< 6.63E-08
trans-1,2-Dichloropropene	10061-01-5	< 1.48E-07	< 7.04E-08	< 6.63E-08
trans-2-Butene	624-64-6	< 2.15E-08	< 1.03E-08	< 9.68E-09
trans-2-Hexene	4050-45-7	5.38E-08	< 1.03E-08	< 9.68E-09
trans-2-Pentene	646-04-8	< 2.15E-08	< 1.03E-08	< 9.68E-09
Trichloroethene	00079-01-6	< 1.48E-07	< 7.04E-08	< 6.63E-08
Trichlorofluoromethane	00075-69-4	2.31E-07	4.71E-08	1.33E-07
Trichlortrifluoroethane	00076-13-1	< 1.48E-07	< 7.04E-08	< 6.63E-08
Undecane		9.22E-07		3.32E-07
Vinyl Acetate	00108-05-4	< 1.48E-07	< 7.04E-08	< 6.63E-08
Vinyl Chloride	00075-01-4	< 1.48E-07	< 7.04E-08	< 6.63E-08
Total Detected		3.33E-05	4.05E-06	2.10E-05
Total with non-detects		< 4.17E-05	< 8.64E-06	< 2.51E-05

TRC

Table G.2-4. Warmup Mill 2 Sulfur Summary

	CAS #	Cmpnd. 2	Cmpnd. 3	Cmpnd. 4
Sulfur (µg/m³)				
Carbonyl Sulfide	463-58-1	90.8	< 49.0	< 29.0
Methyl Mercaptan	74-93-1	< 16.0	< 39.0	< 24.0
Ethyl Mercaptan	75-08-1	< 20.0	< 51.0	< 30.0
Dimethyl Sulfide	75-18-3	< 20.0	< 51.0	< 30.0
Carbon Disulfide	75-15-0	57.5	< 31.0	45.4
Isopropyl Mercaptan	75-33-2	< 25.0	< 62.0	< 37.0
tert-Butyl Mercaptan	75-66-1	< 29.0	< 74.0	< 44.0
n-Propyl Mercaptan	107-03-9	< 25.0	< 62.0	< 37.0
Ethyl Methyl Sulfide	624-89-5	< 25.0	< 62.0	< 37.0
Thiophene	110-02-1	< 28.0	< 69.0	< 41.0
Isobutyl Mercaptan	513-44-0	< 29.0	< 74.0	< 44.0
Diethyl Sulfide	352-93-2	< 29.0	< 74.0	< 44.0
n-Butyl Mercaptan	109-79-5	< 29.0	< 74.0	< 44.0
Dimethyl Disulfide	624-92-0	< 15.0	< 39.0	< 23.0
3-Methylthiophene	616-44-4	< 32.0	< 80.0	< 48.0
Tetrahydrothiophene	110-01-0	< 29.0	< 72.0	< 43.0
2-Ethylthiophene	872-55-9	< 37.0	< 92.0	< 55.0
2,5-Dimethylthiophene	638-02-8	< 37.0	< 92.0	< 55.0
Diethyl Disulfide	110-81-6	< 20.0	< 50.0	< 30.0
Total Detected		148.3	0.0	45.4
Total with non-detects		< 593.3	< 1197.0	< 740.4
Sulfur (lbs/hr)				
Carbonyl Sulfide	463-58-1	7.82E-06	< 4.04E-06	< 2.39E-06
Methyl Mercaptan	74-93-1	< 1.38E-06	< 3.21E-06	< 1.98E-06
Ethyl Mercaptan	75-08-1	< 1.72E-06	< 4.20E-06	< 2.47E-06
Dimethyl Sulfide	75-18-3	< 1.72E-06	< 4.20E-06	< 2.47E-06
Carbon Disulfide	75-15-0	4.95E-06	< 2.55E-06	3.74E-06
Isopropyl Mercaptan	75-33-2	< 2.15E-06	< 5.11E-06	< 3.05E-06
tert-Butyl Mercaptan	75-66-1	< 2.50E-06	< 6.10E-06	< 3.63E-06
n-Propyl Mercaptan	107-03-9	< 2.15E-06	< 5.11E-06	< 3.05E-06
Ethyl Methyl Sulfide	624-89-5	< 2.15E-06	< 5.11E-06	< 3.05E-06
Thiophene	110-02-1	< 2.41E-06	< 5.69E-06	< 3.38E-06
Isobutyl Mercaptan	513-44-0	< 2.50E-06	< 6.10E-06	< 3.63E-06
Diethyl Sulfide	352-93-2	< 2.50E-06	< 6.10E-06	< 3.63E-06
n-Butyl Mercaptan	109-79-5	< 2.50E-06	< 6.10E-06	< 3.63E-06
Dimethyl Disulfide	624-92-0	< 1.29E-06	< 3.21E-06	< 1.90E-06
3-Methylthiophene	616-44-4	< 2.76E-06	< 6.59E-06	< 3.96E-06
Tetrahydrothiophene	110-01-0	< 2.50E-06	< 5.93E-06	< 3.54E-06
2-Ethylthiophene	872-55-9	< 3.19E-06	< 7.58E-06	< 4.53E-06
2,5-Dimethylthiophene	638-02-8	< 3.19E-06	< 7.58E-06	< 4.53E-06
Diethyl Disulfide	110-81-6	< 1.72E-06	< 4.12E-06	< 2.47E-06
Total Detected		1.28E-05	0.00E+00	3.74E-06
Total with non-detects		< 5.11E-05	< 9.86E-05	< 6.10E-05
Sulfur (lbs/lb rubber)				
Carbonyl Sulfide	463-58-1	8.38E-07	< 4.31E-07	< 2.40E-07
Methyl Mercaptan	74-93-1	< 1.48E-07	< 3.43E-07	< 1.99E-07
Ethyl Mercaptan	75-08-1	< 1.84E-07	< 4.49E-07	< 2.49E-07
Dimethyl Sulfide	75-18-3	< 1.84E-07	< 4.49E-07	< 2.49E-07
Carbon Disulfide	75-15-0	5.30E-07	< 2.73E-07	3.76E-07
Isopropyl Mercaptan	75-33-2	< 2.31E-07	< 5.45E-07	< 3.07E-07
tert-Butyl Mercaptan	75-66-1	< 2.68E-07	< 6.51E-07	< 3.65E-07
n-Propyl Mercaptan	107-03-9	< 2.31E-07	< 5.45E-07	< 3.07E-07
Ethyl Methyl Sulfide	624-89-5	< 2.31E-07	< 5.45E-07	< 3.07E-07
Thiophene	110-02-1	< 2.58E-07	< 6.07E-07	< 3.40E-07
Isobutyl Mercaptan	513-44-0	< 2.68E-07	< 6.51E-07	< 3.65E-07
Diethyl Sulfide	352-93-2	< 2.68E-07	< 6.51E-07	< 3.65E-07
n-Butyl Mercaptan	109-79-5	< 2.68E-07	< 6.51E-07	< 3.65E-07
Dimethyl Disulfide	624-92-0	< 1.38E-07	< 3.43E-07	< 1.91E-07
3-Methylthiophene	616-44-4	< 2.95E-07	< 7.04E-07	< 3.98E-07
Tetrahydrothiophene	110-01-0	< 2.68E-07	< 6.33E-07	< 3.57E-07
2-Ethylthiophene	872-55-9	< 3.41E-07	< 8.09E-07	< 4.56E-07
2,5-Dimethylthiophene	638-02-8	< 3.41E-07	< 8.09E-07	< 4.56E-07
Diethyl Disulfide	110-81-6	< 1.84E-07	< 4.40E-07	< 2.49E-07
Total Detected		1.37E-06	0.00E+00	3.76E-07
Total with non-detects		< 6.84E-06	< 1.05E-05	< 6.52E-06

TRC

Table G.2-5. Warmup Mill 2 POM Train Results

	Compound 2	Compound 3	Compound 4
POM (mg)*	7.1	0.9	1.1
Sample Volume (dscf)	55.301	19.984	56.475
POM Concentration (mg/m³)	4.533	1.590	0.688
Flowrate (dscfm)	23	22	22
POM (lb/hr)	3.91E-04	1.31E-04	5.67E-05
Run Time (min)	82.9	30.0	84.4
Total Rubber Processed (lbs/hr)	9.34	9.37	9.94
POM (lb/lb rubber)	4.18E-05	1.40E-05	5.70E-06

* Blank Corrected.

SECTION H

CALENDERING

H.1 Calender No. 1 (Engineered Products Compound - CRG Neoprene)
H.2 Calender No. 2 (Tire Compound - Ply Coat)

Section H.1

Calender No. 1

(Engineered Products Compound - CRG Neoprene)

TRC

Section H.1

Calender No. 1

(Engineered Products Compound - CRG Neoprene)

Table Number	Title	No. of Pages
H.1-1	Calender 1 Summary Table	1
H.1-2	Calender 1 Speciated Semivolatiles	6
H.1-3	Calender 1 Speciated Volatiles	6
H.1-4	Calender 1 Sulfur Summary	3
H.1-5	Calender 1 POM Train Results	1

TRC

Table H.1 - 1 Calender 1
Summary Table

	Compound # 12			
	Run 1	Run 2	Run 3	Average
Run Time (min)	100.0	98.5	105.0	101.2
LinearYards	1105	1114	1165	1128
Yards ² (yd²)	1656	1671	1748	1692
Lbs rubber/yd²	1.097	0.695	1.102	0.965
Total Rubber (lbs/hr)	1048.27	676.31	1041.08	921.89
Total VOC (ppm/run)	25.6	22.2	24.4	24.1
Total VOC (lbs/hr)	4.39E-03	3.81E-03	4.35E-03	4.18E-03
Total VOC (lbs/lb rubber)	4.19E-06	5.63E-06	4.18E-06	4.67E-06
Standard Deviation (lbs/lb rubber)	1.13E-06	2.17E-06	1.34E-06	1.55E-06
Speciated Total Semivol. (µg/m³)-Detected	319.29	310.31	265.87	291.07
Speciated Total Semivol. (lbs/hr)-Detected	2.99E-05	2.91E-05	2.49E-05	2.73E-05
Speciated Total Semivol. (lbs/lb rubber)-Detected	2.85E-08	4.30E-08	2.39E-08	3.09E-08
Speciated Total Semivol. (lbs/lb rubber)-with non-detects	< 3.19E-08	< 4.74E-08	< 2.78E-08	< 3.57E-08
Speciated Total Vol. (µg/m³)-Detected	28470.59	49313.41	36596.51	37462.33
Speciated Total Vol. (lbs/hr)-Detected	2.67E-03	4.62E-03	3.43E-03	3.51E-03
Speciated Total Vol. (lbs/lb rubber)-Detected	2.54E-06	6.83E-06	3.29E-06	4.14E-06
Speciated Total Vol. (lbs/lb rubber)-with non-detects	< 3.62E-06	< 8.47E-06	< 4.36E-06	< 5.48E-06
Total Sulfur (µg/m³)-Detected	16559	21938	17766	18754
Total Sulfur (lbs/hr)-Detected	1.55E-03	2.05E-03	1.66E-03	1.76E-03
Total Sulfur (lbs/lb rubber)-Detected	1.48E-06	3.04E-06	1.60E-06	2.04E-06
Total Sulfur (lbs/lb rubber)-with non-detects	< 1.50E-06	< 3.07E-06	< 1.62E-06	< 2.06E-06
POM (mg/m³)	0.27	3.30	0.78	1.45
POM (lbs/hr)	2.55E-05	3.09E-04	7.61E-05	1.37E-04
POM (lbs/lb rubber)	2.43E-08	4.57E-07	7.31E-08	1.85E-07

TRC

Table H.1 - 2 Calender 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound # 12 Run 1 µg/m³	Run 2 µg/m³	Run 3 µg/m³	Average µg/m³
Pyridine	110-86-1	< 0.33	1.43	0.80	< 0.85
Phenol	108-95-2	< 0.24	< 0.22	< 0.33	< 0.26
bis(2-Chloroethyl)ether	111-44-4	< 0.32	< 0.29	< 0.46	< 0.36
2-Chlorophenol	95-57-8	< 0.29	< 0.26	< 0.36	< 0.30
1,3-Dichlorobenzene	541-73-1	< 0.25	< 0.23	< 0.31	< 0.26
1,4-Dichlorobenzene	106-46-7	< 0.25	< 0.23	< 0.32	< 0.27
1,2-Dichlorobenzene	95-50-1	< 0.28	< 0.24	< 0.35	< 0.29
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.24	< 0.22	< 0.39	< 0.28
Benzyl alcohol	100-51-6	0.64	0.90	2.73	1.42
2-Methylphenol	95-48-7	1.38	1.29	2.86	1.84
3/4-Methylphenol	108-39-4/106-44-5	1.22	1.53	0.64	1.13
N-Nitroso-di-n-propylamine	621-64-7	< 0.52	< 0.46	< 0.68	< 0.55
Hexachloroethane	67-72-1	< 0.59	< 0.53	< 0.76	< 0.63
Nitrobenzene	98-95-3	< 0.32	< 0.28	< 0.42	< 0.34
Isophorone	78-59-1	< 0.18	< 0.16	< 0.24	< 0.19
2-Nitrophenol	88-75-5	< 0.61	< 0.54	< 0.71	< 0.62
2,4-Dimethylphenol	105-67-9	< 0.41	< 0.36	< 0.47	< 0.41
bis(2-Chloroethoxy)methane	111-91-1	< 0.29	< 0.25	< 0.39	< 0.31
Benzoic acid	65-85-0	51.58	27.73	3.03	27.45
2,4-Dichlorophenol	120-83-2	< 0.36	< 0.32	< 0.48	< 0.39
1,2,4-Trichlorobenzene	120-82-1	< 0.32	< 0.28	< 0.40	< 0.34
Naphthalene	91-20-3	19.90	22.60	19.09	20.53
4-Chloroaniline	106-47-8	< 0.28	< 0.24	< 0.36	< 0.29
Hexachlorobutadiene	87-68-3	< 0.56	< 0.50	< 0.68	< 0.58
4-Chloro-3-methylphenol	59-50-7	< 0.45	< 0.40	< 0.53	< 0.46
2-Methylnaphthalene	91-57-6	14.58	15.00	17.64	15.74
Hexachlorocyclopentadiene	77-47-4	< 0.50	< 0.44	< 0.67	< 0.54
2,4,6-Trichlorophenol	88-06-2	< 0.40	< 0.35	< 0.51	< 0.42
2,4,5-Trichlorophenol	95-95-4	< 0.39	< 0.34	< 0.48	< 0.40
2-Chloronaphthalene	91-58-7	< 0.15	< 0.13	< 0.18	< 0.15
2-Nitroaniline	88-74-4	< 0.60	< 0.53	< 0.68	< 0.60
Dimethylphthalate	131-11-3	< 0.14	< 0.13	< 0.16	< 0.14
2,6-Dinitrotoluene	606-20-2	< 0.63	< 0.56	< 0.62	< 0.60
2,4-Dinitrotoluene	121-14-2	< 0.50	< 0.44	< 0.48	< 0.47
Acenaphthylene	208-96-8	1.25	< 0.08	1.54	< 0.96
3-Nitroaniline	99-09-2	< 0.56	< 0.49	< 0.64	< 0.56
Acenaphthene	83-32-9	< 0.17	< 0.14	< 0.20	< 0.17
2,4-Dinitrophenol	105-67-9	< 1.82	< 1.59	< 1.98	< 1.80
4-Nitrophenol	100-02-7	< 1.35	< 1.18	< 1.50	< 1.34
Dibenzofuran	132-64-9	2.54	2.56	< 0.13	< 1.74
Diethylphthalate	84-66-2	< 0.15	< 0.13	< 0.15	< 0.14
4-Chlorophenyl-phenylether	70005-72-3	< 0.30	< 0.26	< 0.35	< 0.30
Fluorene	86-73-7	3.27	3.53	3.88	3.56
4-Nitroaniline	100-01-6	< 0.53	< 0.47	< 0.61	< 0.54
4,6-Dinitro-2-methylphenol	534-52-1	< 0.73	< 0.64	< 0.74	< 0.70
4-Bromophenyl-phenylether	101-55-3	< 0.39	< 0.34	< 0.45	< 0.39
Hexachlorobenzene	118-74-1	< 0.34	< 0.30	< 0.36	< 0.33
Pentachlorophenol	87-86-5	< 0.44	< 0.39	< 0.51	< 0.45
Phenanthrene	85-01-8	7.69	8.16	5.29	7.05
Anthracene	120-12-7	< 0.08	< 0.07	< 0.09	< 0.08
Di-n-butylphthalate	84-74-2	2.45	2.89	1.83	2.39
Fluoranthene	206-44-0	0.51	0.49	0.16	0.39
Pyrene	129-00-0	1.61	1.99	0.62	1.41
Butylbenzylphthalate	85-68-7	1.24	0.51	0.30	0.68
3,3'-Dichlorobenzidine	91-94-1	< 0.16	< 0.16	< 0.21	< 0.18
bis(2-Ethylhexyl)phthalate	117-81-7	14.89	6.76	5.98	9.21

TRC

Table H.1 - 2 Calender 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound # 12 Run 1 µg/m³	Run 2 µg/m³	Run 3 µg/m³	Average µg/m³
Benzo(a)anthracene	56-55-3	< 0.06	< 0.06	< 0.07	< 0.06
Chrysene	218-01-9	< 0.06	< 0.06	< 0.07	< 0.07
Di-n-octylphthalate	117-84-0	0.17	0.14	0.12	0.14
Benzo(b)fluoranthene	205-99-2	0.03	0.04	< 0.07	< 0.05
Benzo(k)fluoranthene	207-08-9	< 0.06	< 0.06	< 0.07	< 0.07
Benzo(a)pyrene	50-32-8	0.01	< 0.06	< 0.07	< 0.05
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.05	< 0.05	< 0.07	< 0.06
Dibenz(a,h)anthracene	53-90-3	< 0.07	< 0.07	< 0.09	< 0.08
Benzo(g,h,i)perylene	191-24-2	< 0.06	< 0.06	< 0.08	< 0.06
n-Nitrosodimethylamine	62-75-9	< 0.50	< 0.44	< 0.69	< 0.54
Cumene	98-82-8	2.04	3.01	1.74	2.26
Aniline	62-53-3	82.02	85.30	108.79	92.04
Benzyl Chloride	100-44-7	< 0.20	< 0.18	< 0.24	< 0.21
Acetophenone	98-86-2	16.07	8.57	9.76	11.47
n-Nitrosomorpholine	59-89-2	< 0.56	< 0.50	< 0.67	< 0.57
o-Toluidine	95-53-4	< 0.26	< 0.24	< 0.32	< 0.27
N,N-Dimethylaniline	121-69-7	< 0.24	< 0.21	< 0.29	< 0.25
1,2-Dibromo-3-chloropropane	96-12-8	< 0.61	< 0.54	< 0.71	< 0.62
o-Anisidine	90-04-0	< 0.45	< 0.40	< 0.52	< 0.46
1,4-Phenylenediamine	106-50-3	< 0.56	< 0.50	< 0.81	< 0.62
N,N-Diethylaniline	91-66-7	< 0.21	< 0.18	< 0.23	< 0.21
a,a,a-Trichlorotoluene	98-07-7	< 0.30	< 0.26	< 0.33	< 0.30
Hydroquinone	123-31-9	< 0.58	< 0.51	< 0.80	< 0.63
2-Chloroacetophenone	1341-24-8	< 0.19	< 0.17	< 0.24	< 0.20
Biphenyl	92-52-4	8.16	7.90	9.34	8.47
Trifluralin	1582-09-8	< 0.89	< 0.78	< 0.85	< 0.84
4-Aminobiphenyl	92-67-1	14.27	17.36	1.31	10.98
Pentachloronitrobenzene	82-68-8	< 1.25	< 1.09	< 1.15	< 1.16
4-Nitrobiphenyl	92-93-3	< 0.30	< 0.26	< 0.26	< 0.27
Benzidine	92-87-5	< 0.10	< 0.10	< 0.17	< 0.12
4,4'-Methylenedianiline	101-77-9	< 0.21	< 0.22	< 0.26	< 0.23
Dimethylaminoazobenzene	60-11-7	< 0.18	< 0.18	< 0.20	< 0.19
3,3'-Dimethylbenzidine	119-93-7	< 0.10	< 0.11	< 0.12	< 0.11
3,3'-Dimethoxybenzidine	119-90-4	< 0.32	< 0.33	< 0.35	< 0.33
Methylene bis-chloroaniline	101-14-4	< 0.36	< 0.37	< 0.42	< 0.38
3-Furaldehyde	498-60-2	< 0.63	< 0.56	< 0.67	< 0.62
2-Furaldehyde	98-01-1	< 0.52	0.45	0.69	< 0.55
Cyclohexylamine	108-91-8	< 0.83	8.64	< 0.42	< 3.29
N-Nitrosodiethylamine	55-18-5	15.44	11.74	7.01	11.39
Cyclohexanone	108-94-1	1.88	3.22	7.30	4.13
1,3-Cyclooctadiene	1700-10-3	< 0.40	< 0.35	< 0.46	< 0.40
1,5-Cyclooctadiene	111-78-4	< 0.91	< 0.81	< 1.06	< 0.92
Camphene	79-92-5	< 0.45	< 0.40	< 0.52	< 0.45
Benzaldehyde	100-52-7	< 0.47	< 0.42	< 0.57	< 0.48
Benzonitrile	100-47-0	< 0.18	2.29	< 0.23	< 0.90
Isooctanol	26952-21-6	< 3.59	< 3.19	< 4.80	< 3.86
1,2,4-Trimethylbenzene	95-63-6	15.17	20.47	12.66	16.10
3-Methylstyrene	100-80-1	< 0.28	< 0.25	< 0.34	< 0.29
4-Methylstyrene	622-97-9	< 0.29	< 0.26	< 0.35	< 0.30
4-Chlorostyrene	1073-67-2	2.51	3.80	4.48	3.60
1-Dodecene	112-41-4	< 1.73	< 1.52	< 2.07	< 1.77
Phthalimide	85-41-6	< 1.03	< 0.91	< 1.36	< 1.10
Diphenylamine	122-39-4	36.78	40.02	36.26	37.69
Total Detected		319.29	310.31	265.87	291.07
Total with non-detects		< 356.73	< 342.12	< 309.27	< 336.04

TRC

Table H.1 - 2 Calender 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound # 12 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
Pyridine	110-86-1	< 3.09E-08	1.34E-07	7.49E-08	< 8.00E-08
Phenol	108-95-2	< 2.27E-08	< 2.02E-08	< 3.12E-08	< 2.47E-08
bis(2-Chloroethyl)ether	111-44-4	< 3.04E-08	< 2.72E-08	< 4.32E-08	< 3.36E-08
2-Chlorophenol	95-57-8	< 2.68E-08	< 2.42E-08	< 3.40E-08	< 2.83E-08
1,3-Dichlorobenzene	541-73-1	< 2.37E-08	< 2.12E-08	< 2.94E-08	< 2.48E-08
1,4-Dichlorobenzene	106-46-7	< 2.37E-08	< 2.12E-08	< 2.99E-08	< 2.49E-08
1,2-Dichlorobenzene	95-50-1	< 2.58E-08	< 2.27E-08	< 3.26E-08	< 2.70E-08
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.27E-08	< 2.02E-08	< 3.63E-08	< 2.64E-08
Benzyl alcohol	100-51-6	5.97E-08	8.39E-08	2.56E-07	1.33E-07
2-Methylphenol	95-48-7	1.29E-07	1.20E-07	2.68E-07	1.72E-07
3/4-Methylphenol	108-39-4/106-44-5	1.14E-07	1.43E-07	6.02E-08	1.06E-07
N-Nitroso-di-n-propylamine	621-64-7	< 4.84E-08	< 4.30E-08	< 6.34E-08	< 5.16E-08
Hexachloroethane	67-72-1	< 5.56E-08	< 4.94E-08	< 7.07E-08	< 5.86E-08
Nitrobenzene	98-95-3	< 3.04E-08	< 2.67E-08	< 3.95E-08	< 3.22E-08
Isophorone	78-59-1	< 1.70E-08	< 1.48E-08	< 2.21E-08	< 1.80E-08
2-Nitrophenol	88-75-5	< 5.72E-08	< 5.04E-08	< 6.62E-08	< 5.79E-08
2,4-Dimethylphenol	105-67-9	< 3.86E-08	< 3.41E-08	< 4.36E-08	< 3.88E-08
bis(2-Chloroethoxy)methane	111-91-1	< 2.68E-08	< 2.37E-08	< 3.63E-08	< 2.89E-08
Benzoic acid	65-85-0	4.83E-06	2.60E-06	2.83E-07	2.57E-06
2,4-Dichlorophenol	120-83-2	< 3.40E-08	< 2.96E-08	< 4.46E-08	< 3.61E-08
1,2,4-Trichlorobenzene	120-82-1	< 2.99E-08	< 2.67E-08	< 3.77E-08	< 3.14E-08
Naphthalene	91-20-3	1.86E-06	2.12E-06	1.79E-06	1.92E-06
4-Chloroaniline	106-47-8	< 2.58E-08	< 2.27E-08	< 3.35E-08	< 2.73E-08
Hexachlorobutadiene	87-68-3	< 5.25E-08	< 4.64E-08	< 6.34E-08	< 5.41E-08
4-Chloro-3-methylphenol	59-50-7	< 4.22E-08	< 3.75E-08	< 5.01E-08	< 4.33E-08
2-Methylnaphthalene	91-57-6	1.37E-06	1.41E-06	1.65E-06	1.47E-06
Hexachlorocyclopentadiene	77-47-4	< 4.69E-08	< 4.15E-08	< 6.29E-08	< 5.04E-08
2,4,6-Trichlorophenol	88-06-2	< 3.71E-08	< 3.26E-08	< 4.78E-08	< 3.91E-08
2,4,5-Trichlorophenol	95-95-4	< 3.66E-08	< 3.21E-08	< 4.50E-08	< 3.79E-08
2-Chloronaphthalene	91-58-7	< 1.39E-08	< 1.23E-08	< 1.70E-08	< 1.44E-08
2-Nitroaniline	88-74-4	< 5.61E-08	< 4.94E-08	< 6.39E-08	< 5.65E-08
Dimethylphthalate	131-11-3	< 1.34E-08	< 1.18E-08	< 1.47E-08	< 1.33E-08
2,6-Dinitrotoluene	606-20-2	< 5.92E-08	< 5.23E-08	< 5.83E-08	< 5.66E-08
2,4-Dinitrotoluene	121-14-2	< 4.69E-08	< 4.15E-08	< 4.46E-08	< 4.43E-08
Acenaphthylene	208-96-8	1.17E-07	< 7.90E-09	1.44E-07	< 8.99E-08
3-Nitroaniline	99-09-2	< 5.25E-08	< 4.59E-08	< 6.02E-08	< 5.29E-08
Acenaphthene	83-32-9	< 1.55E-08	< 1.33E-08	< 1.84E-08	< 1.57E-08
2,4-Dinitrophenol	105-67-9	< 1.70E-07	< 1.49E-07	< 1.86E-07	< 1.68E-07
4-Nitrophenol	100-02-7	< 1.26E-07	< 1.11E-07	< 1.41E-07	< 1.26E-07
Dibenzofuran	132-64-9	2.37E-07	2.39E-07	< 1.19E-08	< 1.63E-07
Diethylphthalate	84-66-2	< 1.39E-08	< 1.18E-08	< 1.38E-08	< 1.32E-08
4-Chlorophenyl-phenylether	70005-72-3	< 2.78E-08	< 2.42E-08	< 3.31E-08	< 2.84E-08
Fluorene	86-73-7	3.06E-07	3.31E-07	3.63E-07	3.33E-07
4-Nitroaniline	100-01-6	< 5.00E-08	< 4.39E-08	< 5.74E-08	< 5.04E-08
4,6-Dinitro-2-methylphenol	534-52-1	< 6.85E-08	< 5.97E-08	< 6.89E-08	< 6.57E-08
4-Bromophenyl-phenylether	101-55-3	< 3.61E-08	< 3.16E-08	< 4.23E-08	< 3.66E-08
Hexachlorobenzene	118-74-1	< 3.14E-08	< 2.76E-08	< 3.40E-08	< 3.10E-08
Pentachlorophenol	87-86-5	< 4.12E-08	< 3.65E-08	< 4.73E-08	< 4.17E-08
Phenanthrene	85-01-8	7.20E-07	7.64E-07	4.96E-07	6.60E-07
Anthracene	120-12-7	< 7.73E-09	< 6.91E-09	< 8.27E-09	< 7.64E-09
Di-n-butylphthalate	84-74-2	2.30E-07	2.71E-07	1.71E-07	2.24E-07
Fluoranthene	206-44-0	4.79E-08	4.54E-08	1.52E-08	3.62E-08
Pyrene	129-00-0	1.50E-07	1.87E-07	5.83E-08	1.32E-07
Butylbenzylphthalate	85-68-7	1.16E-07	4.74E-08	2.85E-08	6.39E-08
3,3'-Dichlorobenzidine	91-94-1	< 1.49E-08	< 1.53E-08	< 1.93E-08	< 1.65E-08
bis(2-Ethylhexyl)phthalate	117-81-7	1.39E-06	6.33E-07	5.60E-07	8.63E-07

TRC

Table H.1 - 2 Calender 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound # 12 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
Benzo(a)anthracene	56-55-3	< 5.15E-09	< 5.43E-09	< 6.43E-09	< 5.67E-09
Chrysene	218-01-9	< 5.67E-09	< 5.92E-09	< 6.89E-09	< 6.16E-09
Di-n-octylphthalate	117-84-0	1.55E-08	1.28E-08	1.15E-08	1.33E-08
Benzo(b)fluoranthene	205-99-2	2.58E-09	3.95E-09	< 6.43E-09	< 4.32E-09
Benzo(k)fluoranthene	207-08-9	< 5.67E-09	< 5.92E-09	< 6.89E-09	< 6.16E-09
Benzo(a)pyrene	50-32-8	1.03E-09	< 5.92E-09	< 6.89E-09	< 4.62E-09
Indeno(1,2,3-cd)pyrene	193-39-5	< 4.64E-09	< 4.94E-09	< 6.43E-09	< 5.33E-09
Dibenz(a,h)anthracene	53-90-3	< 6.18E-09	< 6.42E-09	< 8.73E-09	< 7.11E-09
Benzo(g,h,i)perylene	191-24-2	< 5.15E-09	< 5.43E-09	< 7.35E-09	< 5.98E-09
n-Nitrosodimethylamine	62-75-9	< 4.64E-08	< 4.10E-08	< 6.48E-08	< 5.07E-08
Cumene	98-82-8	1.91E-07	2.82E-07	1.63E-07	2.12E-07
Aniline	62-53-3	7.68E-06	7.99E-06	1.02E-05	8.62E-06
Benzyl Chloride	100-44-7	< 1.91E-08	< 1.73E-08	< 2.25E-08	< 1.96E-08
Acetophenone	98-86-2	1.51E-06	8.03E-07	9.14E-07	1.07E-06
n-Nitrosomorpholine	59-89-2	< 5.20E-08	< 4.64E-08	< 6.25E-08	< 5.36E-08
o-Toluidine	95-53-4	< 2.47E-08	< 2.22E-08	< 2.99E-08	< 2.56E-08
N,N-Dimethylaniline	121-69-7	< 2.27E-08	< 1.97E-08	< 2.76E-08	< 2.33E-08
1,2-Dibromo-3-chloropropane	96-12-8	< 5.67E-08	< 5.04E-08	< 6.66E-08	< 5.79E-08
o-Anisidine	90-04-0	< 4.22E-08	< 3.70E-08	< 4.92E-08	< 4.28E-08
1,4-Phenylenediamine	106-50-3	< 5.25E-08	< 4.64E-08	< 7.63E-08	< 5.84E-08
N,N-Diethylaniline	91-66-7	< 1.96E-08	< 1.73E-08	< 2.16E-08	< 1.95E-08
a,a,a-Trichlorotoluene	98-07-7	< 2.83E-08	< 2.47E-08	< 3.08E-08	< 2.79E-08
Hydroquinone	123-31-9	< 5.41E-08	< 4.74E-08	< 7.53E-08	< 5.89E-08
2-Chloroacetophenone	1341-24-8	< 1.80E-08	< 1.58E-08	< 2.25E-08	< 1.88E-08
Biphenyl	92-52-4	7.64E-07	7.40E-07	8.75E-07	7.93E-07
Trifluralin	1582-09-8	< 8.29E-08	< 7.31E-08	< 7.99E-08	< 7.86E-08
4-Aminobiphenyl	92-67-1	1.34E-06	1.63E-06	1.23E-07	1.03E-06
Pentachloronitrobenzene	82-68-8	< 1.17E-07	< 1.02E-07	< 1.08E-07	< 1.09E-07
4-Nitrobiphenyl	92-93-3	< 2.78E-08	< 2.42E-08	< 2.43E-08	< 2.55E-08
Benzidine	92-87-5	< 9.27E-09	< 9.38E-09	< 1.61E-08	< 1.16E-08
4,4'-Methylenedianiline	101-77-9	< 2.01E-08	< 2.07E-08	< 2.43E-08	< 2.17E-08
Dimethylaminoazobenzene	60-11-7	< 1.70E-08	< 1.73E-08	< 1.84E-08	< 1.76E-08
3,3'-Dimethylbenzidine	119-93-7	< 9.79E-09	< 9.87E-09	< 1.10E-08	< 1.02E-08
3,3'-Dimethoxybenzidine	119-90-4	< 3.04E-08	< 3.11E-08	< 3.26E-08	< 3.14E-08
Methylene bis-chloroaniline	101-14-4	< 3.35E-08	< 3.46E-08	< 3.95E-08	< 3.58E-08
3-Furaldehyde	498-60-2	< 5.92E-08	< 5.23E-08	< 6.29E-08	< 5.82E-08
2-Furaldehyde	98-01-1	< 4.89E-08	4.25E-08	6.43E-08	< 5.19E-08
Cyclohexylamine	108-91-8	< 7.73E-08	8.09E-07	< 3.90E-08	< 3.09E-07
N-Nitrosodiethylamine	55-18-5	1.45E-06	1.10E-06	6.56E-07	1.07E-06
Cyclohexanone	108-94-1	1.76E-07	3.01E-07	6.84E-07	3.87E-07
1,3-Cyclooctadiene	1700-10-3	< 3.76E-08	< 3.31E-08	< 4.27E-08	< 3.78E-08
1,5-Cyclooctadiene	111-78-4	< 8.50E-08	< 7.55E-08	< 9.92E-08	< 8.66E-08
Camphene	79-92-5	< 4.17E-08	< 3.70E-08	< 4.82E-08	< 4.23E-08
Benzaldehyde	100-52-7	< 4.38E-08	< 3.90E-08	< 5.33E-08	< 4.54E-08
Benzonitrile	100-47-0	< 1.65E-08	2.15E-07	< 2.11E-08	< 8.41E-08
Isooctanol	26952-21-6	< 3.36E-07	< 2.99E-07	< 4.50E-07	< 3.61E-07
1,2,4-Trimethylbenzene	95-63-6	1.42E-06	1.92E-06	1.19E-06	1.51E-06
3-Methylstyrene	100-80-1	< 2.63E-08	< 2.32E-08	< 3.17E-08	< 2.71E-08
4-Methylstyrene	622-97-9	< 2.73E-08	< 2.42E-08	< 3.31E-08	< 2.82E-08
4-Chlorostyrene	1073-67-2	2.35E-07	3.56E-07	4.20E-07	3.37E-07
1-Dodecene	112-41-4	< 1.62E-07	< 1.43E-07	< 1.93E-07	< 1.66E-07
Phthalimide	85-41-6	< 9.68E-08	< 8.49E-08	< 1.28E-07	< 1.03E-07
Diphenylamine	122-39-4	3.44E-06	3.75E-06	3.40E-06	3.53E-06
Total Detected		2.99E-05	2.91E-05	2.49E-05	2.73E-05
Total with non-detects		< 3.34E-05	< 3.20E-05	< 2.90E-05	< 3.15E-05

TRC

Table H.1 - 2 Calender 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound # 12 Run 1 lb/lb rubber	Run 2 lb/lb rubber	Run 3 lb/lb rubber	Average lb/lb rubber
Pyridine	110-86-1	< 2.95E-11	1.99E-10	7.19E-11	< 1.00E-10
Phenol	108-95-2	< 2.16E-11	< 2.99E-11	< 3.00E-11	< 2.72E-11
bis(2-Chloroethyl)ether	111-44-4	< 2.90E-11	< 4.02E-11	< 4.15E-11	< 3.69E-11
2-Chlorophenol	95-57-8	< 2.56E-11	< 3.58E-11	< 3.27E-11	< 3.13E-11
1,3-Dichlorobenzene	541-73-1	< 2.26E-11	< 3.14E-11	< 2.82E-11	< 2.74E-11
1,4-Dichlorobenzene	106-46-7	< 2.26E-11	< 3.14E-11	< 2.87E-11	< 2.76E-11
1,2-Dichlorobenzene	95-50-1	< 2.46E-11	< 3.36E-11	< 3.13E-11	< 2.98E-11
2,2'-oxybis(1-Chloropropane)	108-60-1	< 2.16E-11	< 2.99E-11	< 3.49E-11	< 2.88E-11
Benzyl alcohol	100-51-6	5.70E-11	1.24E-10	2.46E-10	1.42E-10
2-Methylphenol	95-48-7	1.23E-10	1.78E-10	2.57E-10	1.86E-10
3/4-Methylphenol	108-39-4/106-44-5	1.09E-10	2.12E-10	5.78E-11	1.26E-10
N-Nitroso-di-n-propylamine	621-64-7	< 4.62E-11	< 6.35E-11	< 6.09E-11	< 5.69E-11
Hexachloroethane	67-72-1	< 5.31E-11	< 7.30E-11	< 6.80E-11	< 6.47E-11
Nitrobenzene	98-95-3	< 2.90E-11	< 3.94E-11	< 3.79E-11	< 3.55E-11
Isophorone	78-59-1	< 1.62E-11	< 2.19E-11	< 2.12E-11	< 1.98E-11
2-Nitrophenol	88-75-5	< 5.45E-11	< 7.45E-11	< 6.35E-11	< 6.42E-11
2,4-Dimethylphenol	105-67-9	< 3.69E-11	< 5.04E-11	< 4.19E-11	< 4.30E-11
bis(2-Chloroethoxy)methane	111-91-1	< 2.56E-11	< 3.50E-11	< 3.49E-11	< 3.18E-11
Benzoic acid	65-85-0	4.61E-09	3.84E-09	2.72E-10	2.91E-09
2,4-Dichlorophenol	120-83-2	< 3.24E-11	< 4.38E-11	< 4.28E-11	< 3.97E-11
1,2,4-Trichlorobenzene	120-82-1	< 2.85E-11	< 3.94E-11	< 3.62E-11	< 3.47E-11
Naphthalene	91-20-3	1.78E-09	3.13E-09	1.72E-09	2.21E-09
4-Chloroaniline	106-47-8	< 2.46E-11	< 3.36E-11	< 3.22E-11	< 3.01E-11
Hexachlorobutadiene	87-68-3	< 5.01E-11	< 6.86E-11	< 6.09E-11	< 5.99E-11
4-Chloro-3-methylphenol	59-50-7	< 4.03E-11	< 5.55E-11	< 4.81E-11	< 4.80E-11
2-Methylnaphthalene	91-57-6	1.30E-09	2.08E-09	1.59E-09	1.66E-09
Hexachlorocyclopentadiene	77-47-4	< 4.47E-11	< 6.13E-11	< 6.05E-11	< 5.55E-11
2,4,6-Trichlorophenol	88-06-2	< 3.54E-11	< 4.82E-11	< 4.59E-11	< 4.32E-11
2,4,5-Trichlorophenol	95-95-4	< 3.49E-11	< 4.75E-11	< 4.32E-11	< 4.19E-11
2-Chloronaphthalene	91-58-7	< 1.33E-11	< 1.83E-11	< 1.63E-11	< 1.59E-11
2-Nitroaniline	88-74-4	< 5.36E-11	< 7.30E-11	< 6.13E-11	< 6.26E-11
Dimethylphthalate	131-11-3	< 1.28E-11	< 1.75E-11	< 1.41E-11	< 1.48E-11
2,6-Dinitrotoluene	606-20-2	< 5.65E-11	< 7.74E-11	< 5.60E-11	< 6.33E-11
2,4-Dinitrotoluene	121-14-2	< 4.47E-11	< 6.13E-11	< 4.28E-11	< 4.96E-11
Acenaphthylene	208-96-8	1.12E-10	< 1.17E-11	1.39E-10	< 8.74E-11
3-Nitroaniline	99-09-2	< 5.01E-11	< 6.79E-11	< 5.78E-11	< 5.86E-11
Acenaphthene	83-32-9	< 1.47E-11	< 1.97E-11	< 1.77E-11	< 1.74E-11
2,4-Dinitrophenol	105-67-9	< 1.62E-10	< 2.20E-10	< 1.78E-10	< 1.87E-10
4-Nitrophenol	100-02-7	< 1.20E-10	< 1.64E-10	< 1.35E-10	< 1.40E-10
Dibenzofuran	132-64-9	2.27E-10	3.54E-10	< 1.15E-11	< 1.97E-10
Diethylphthalate	84-66-2	< 1.33E-11	< 1.75E-11	< 1.32E-11	< 1.47E-11
4-Chlorophenyl-phenylether	70005-72-3	< 2.65E-11	< 3.58E-11	< 3.18E-11	< 3.14E-11
Fluorene	86-73-7	2.92E-10	4.89E-10	3.49E-10	3.77E-10
4-Nitroaniline	100-01-6	< 4.77E-11	< 6.50E-11	< 5.52E-11	< 5.59E-11
4,6-Dinitro-2-methylphenol	534-52-1	< 6.54E-11	< 8.83E-11	< 6.62E-11	< 7.33E-11
4-Bromophenyl-phenylether	101-55-3	< 3.44E-11	< 4.67E-11	< 4.06E-11	< 4.06E-11
Hexachlorobenzene	118-74-1	< 3.00E-11	< 4.09E-11	< 3.27E-11	< 3.45E-11
Pentachlorophenol	87-86-5	< 3.93E-11	< 5.40E-11	< 4.54E-11	< 4.63E-11
Phenanthrene	85-01-8	6.87E-10	1.13E-09	4.76E-10	7.64E-10
Anthracene	120-12-7	< 7.37E-12	< 1.02E-11	< 7.94E-12	< 8.51E-12
Di-n-butylphthalate	84-74-2	2.19E-10	4.01E-10	1.65E-10	2.62E-10
Fluoranthene	206-44-0	4.57E-11	6.72E-11	1.46E-11	4.25E-11
Pyrene	129-00-0	1.43E-10	2.76E-10	5.60E-11	1.58E-10
Butylbenzylphthalate	85-68-7	1.11E-10	7.01E-11	2.74E-11	6.93E-11
3,3'-Dichlorobenzidine	91-94-1	< 1.42E-11	< 2.26E-11	< 1.85E-11	< 1.85E-11
bis(2-Ethylhexyl)phthalate	117-81-7	1.33E-09	9.36E-10	5.38E-10	9.35E-10

TRC

Table H.1 - 2 Calender 1
Speciated Semivolatiles

Compounds	CAS Numbers	Compound # 12 Run 1 lb/lb rubber	Run 2 lb/lb rubber	Run 3 lb/lb rubber	Average lb/lb rubber
Benzo(a)anthracene	56-55-3	< 4.91E-12	< 8.03E-12	< 6.18E-12	< 6.37E-12
Chrysene	218-01-9	< 5.41E-12	< 8.76E-12	< 6.62E-12	< 6.93E-12
Di-n-octylphthalate	117-84-0	1.47E-11	1.90E-11	1.10E-11	1.49E-11
Benzo(b)fluoranthene	205-99-2	2.46E-12	5.84E-12	< 6.18E-12	< 4.82E-12
Benzo(k)fluoranthene	207-08-9	< 5.41E-12	< 8.76E-12	< 6.62E-12	< 6.93E-12
Benzo(a)pyrene	50-32-8	9.83E-13	< 8.76E-12	< 6.62E-12	< 5.45E-12
Indeno(1,2,3-cd)pyrene	193-39-5	< 4.42E-12	< 7.30E-12	< 6.18E-12	< 5.97E-12
Dibenz(a,h)anthracene	53-90-3	< 5.90E-12	< 9.49E-12	< 8.38E-12	< 7.92E-12
Benzo(g,h,i)perylene	191-24-2	< 4.91E-12	< 8.03E-12	< 7.06E-12	< 6.67E-12
n-Nitrosodimethylamine	62-75-9	< 4.42E-11	< 6.06E-11	< 6.22E-11	< 5.57E-11
Cumene	98-82-8	1.82E-10	4.17E-10	1.57E-10	2.52E-10
Aniline	62-53-3	7.33E-09	1.18E-08	9.79E-09	9.64E-09
Benzyl Chloride	100-44-7	< 1.82E-11	< 2.56E-11	< 2.16E-11	< 2.18E-11
Acetophenone	98-86-2	1.44E-09	1.19E-09	8.78E-10	1.17E-09
n-Nitrosomorpholine	59-89-2	< 4.96E-11	< 6.86E-11	< 6.00E-11	< 5.94E-11
o-Toluidine	95-53-4	< 2.36E-11	< 3.29E-11	< 2.87E-11	< 2.84E-11
N,N-Dimethylaniline	121-69-7	< 2.16E-11	< 2.92E-11	< 2.65E-11	< 2.58E-11
1,2-Dibromo-3-chloropropane	96-12-8	< 5.41E-11	< 7.45E-11	< 6.40E-11	< 6.42E-11
o-Anisidine	90-04-0	< 4.03E-11	< 5.48E-11	< 4.72E-11	< 4.74E-11
1,4-Phenylenediamine	106-50-3	< 5.01E-11	< 6.86E-11	< 7.32E-11	< 6.40E-11
N,N-Diethylaniline	91-66-7	< 1.87E-11	< 2.56E-11	< 2.07E-11	< 2.17E-11
a,a,a-Trichlorotoluene	98-07-7	< 2.70E-11	< 3.65E-11	< 2.96E-11	< 3.10E-11
Hydroquinone	123-31-9	< 5.16E-11	< 7.01E-11	< 7.24E-11	< 6.47E-11
2-Chloroacetophenone	1341-24-8	< 1.72E-11	< 2.34E-11	< 2.16E-11	< 2.07E-11
Biphenyl	92-52-4	7.29E-10	1.09E-09	8.40E-10	8.88E-10
Trifluralin	1582-09-8	< 7.91E-11	< 1.08E-10	< 7.68E-11	< 8.80E-11
4-Aminobiphenyl	92-67-1	1.28E-09	2.40E-09	1.18E-10	1.27E-09
Pentachloronitrobenzene	82-68-8	< 1.12E-10	< 1.51E-10	< 1.04E-10	< 1.22E-10
4-Nitrobiphenyl	92-93-3	< 2.65E-11	< 3.58E-11	< 2.34E-11	< 2.86E-11
Benzidine	92-87-5	< 8.84E-12	< 1.39E-11	< 1.54E-11	< 1.27E-11
4,4'-Methylenedianiline	101-77-9	< 1.92E-11	< 3.07E-11	< 2.34E-11	< 2.44E-11
Dimethylaminoazobenzene	60-11-7	< 1.62E-11	< 2.56E-11	< 1.77E-11	< 1.98E-11
3,3'-Dimethylbenzidine	119-93-7	< 9.34E-12	< 1.46E-11	< 1.06E-11	< 1.15E-11
3,3'-Dimethoxybenzidine	119-90-4	< 2.90E-11	< 4.60E-11	< 3.13E-11	< 3.54E-11
Methylene bis-chloroaniline	101-14-4	< 3.19E-11	< 5.11E-11	< 3.79E-11	< 4.03E-11
3-Furaldehyde	498-60-2	< 5.65E-11	< 7.74E-11	< 6.05E-11	< 6.48E-11
2-Furaldehyde	98-01-1	< 4.67E-11	6.28E-11	6.18E-11	< 5.71E-11
Cyclohexylamine	108-91-8	< 7.37E-11	1.20E-09	< 3.75E-11	< 4.36E-10
N-Nitrosodiethylamine	55-18-5	1.38E-09	1.63E-09	6.31E-10	1.21E-09
Cyclohexanone	108-94-1	1.68E-10	4.45E-10	6.57E-10	4.23E-10
1,3-Cyclooctadiene	1700-10-3	< 3.59E-11	< 4.89E-11	< 4.10E-11	< 4.19E-11
1,5-Cyclooctadiene	111-78-4	< 8.11E-11	< 1.12E-10	< 9.53E-11	< 9.60E-11
Camphene	79-92-5	< 3.98E-11	< 5.48E-11	< 4.63E-11	< 4.70E-11
Benzaldehyde	100-52-7	< 4.18E-11	< 5.77E-11	< 5.12E-11	< 5.02E-11
Benzonitrile	100-47-0	< 1.57E-11	3.18E-10	< 2.03E-11	< 1.18E-10
Isooctanol	26952-21-6	< 3.20E-10	< 4.42E-10	< 4.32E-10	< 3.98E-10
1,2,4-Trimethylbenzene	95-63-6	1.36E-09	2.83E-09	1.14E-09	1.78E-09
3-Methylstyrene	100-80-1	< 2.51E-11	< 3.43E-11	< 3.04E-11	< 2.99E-11
4-Methylstyrene	622-97-9	< 2.60E-11	< 3.58E-11	< 3.18E-11	< 3.12E-11
4-Chlorostyrene	1073-67-2	2.25E-10	5.26E-10	4.03E-10	3.85E-10
1-Dodecene	112-41-4	< 1.55E-10	< 2.11E-10	< 1.86E-10	< 1.84E-10
Phthalimide	85-41-6	< 9.24E-11	< 1.26E-10	< 1.23E-10	< 1.14E-10
Diphenylamine	122-39-4	3.29E-09	5.54E-09	3.26E-09	4.03E-09
Total Detected		2.85E-08	4.30E-08	2.39E-08	3.09E-08
Total with non-detects		< 3.19E-08	< 4.74E-08	< 2.78E-08	< 3.57E-08

TRC

Table H.1 - 3 Calender 1
Speciated Volatiles

		Compounds	CAS Numbers	Compound # 12 Run 1 µg/m³	Run 2 µg/m³	Run 3 µg/m³	Average µg/m³
		1-Heptene	592-76-7	26.26	75.85	53.10	51.74
		1-Hexene	592-41-6	< 1.17	2.45	< 1.17	< 1.59
		1-Octene	111-60-0	< 1.17	< 1.17	< 1.17	< 1.17
		1-Pentene	109-67-1	64.18	10.50	46.09	40.26
1		1,1-Dichloroethane	00075-35-4	< 200.00	< 200.00	< 200.00	< 200.00
1		1,1-Dichloroethane	00075-34-3	< 200.00	< 200.00	< 200.00	< 200.00
1		1,1,1-Trichloroethane	00071-55-6	< 200.00	< 200.00	< 200.00	< 200.00
1		1,1,2-Trichloroethane	00079-00-5	< 200.00	< 200.00	< 200.00	< 200.00
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 200.00	< 200.00	< 200.00	< 200.00
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 400.00	< 400.00	< 400.00	< 400.00
1		1,2-Dibromoethane	00106-93-4	< 200.00	< 200.00	< 200.00	< 200.00
1		1,2-Dichlorobenzene	00095-50-1	< 200.00	< 200.00	< 200.00	< 200.00
1		1,2-Dichloroethane	00107-06-2	< 200.00	< 200.00	< 200.00	< 200.00
1		1,2-Dichloropropane	00078-87-5	< 200.00	< 200.00	< 200.00	< 200.00
		1,2,4-Trimethylbenzene	95-63-6	26.67	49.44	21.11	32.41
		1,3-Butadiene	106-99-0	< 1.13	< 1.13	< 1.13	< 1.13
1		1,3-Dichlorobenzene	00541-73-1	< 200.00	< 200.00	< 200.00	< 200.00
		1,3,5-Trimethylbenzene	108-67-8	< 5.56	< 5.56	< 5.56	< 5.56
1		1,4-Dichlorobenzene	00106-46-7	< 200.00	< 200.00	< 200.00	< 200.00
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 5.58	781.65	< 5.58	< 264.27
1		1,4-Dioxane	00123-91-1	< 800.00	< 800.00	< 800.00	< 800.00
1		2-Butanone	00078-93-3	< 400.00	< 400.00	< 400.00	< 400.00
1		2-Hexanone	00591-78-6	< 200.00	< 200.00	< 200.00	< 200.00
		2-Methyl-1-butene	563-46-2	< 1.17	14.59	21.01	< 12.25
		2-Methyl-2-butene	513-35-9	< 1.17	< 1.17	< 1.17	< 1.17
		2-Methyl-2-pentene	625-27-4	< 1.17	< 1.17	< 1.17	< 1.17
		2-Methylheptane	592-27-8	< 1.19	21.98	< 1.19	< 8.12
		2-Methylhexane	591-76-4	77.41	285.82	196.50	186.58
		2-Methylpentane	107-83-5	4.90	9.56	3.05	5.84
		2,2-Dimethylbutane	75-83-2	< 1.19	< 1.19	< 1.19	< 1.19
		2,2-Dimethylpropane	463-82-1	< 1.20	< 1.20	< 1.20	< 1.20
		2,3-Dimethylpentane	565-59-3	28.58	89.32	65.50	61.13
		2,3,4-Trimethylpentane	565-75-3	< 1.19	< 1.19	< 1.19	< 1.19
		2,4-Dimethylhexane	589-43-5	19.60	46.33	33.86	33.26
		3-Methylhexane	589-34-4	125.05	410.86	279.86	271.93
		3-Methylpentane	96-14-0	25.69	57.36	28.68	37.24
		4-Methyl-1-pentene	691-37-2	< 1.17	< 1.17	< 1.17	< 1.17
1		4-Methyl-2-pentanone	00108-10-1	< 200.00	< 200.00	< 200.00	< 200.00
1		Acetone	00067-64-1	150.00	170.00	160.00	160.00
1		Acetonitrile	01722-09-4	< 400.00	< 400.00	< 400.00	< 400.00
		Acetylene	74-86-2	7.04	5.14	5.96	6.05
1		Acrolein	00107-02-8	< 400.00	< 400.00	< 400.00	< 400.00
1		Acrylonitrile	00107-13-1	< 400.00	< 400.00	< 400.00	< 400.00
1		Allyl Chloride	00107-05-1	< 400.00	< 400.00	< 400.00	< 400.00
		a-Pinene	7785-70-8	< 1.13	< 1.13	< 1.13	< 1.13
		Benzene	71-43-2	12.46	14.08	10.29	12.28
1		Benzyl Chloride	00100-44-7	< 400.00	< 400.00	< 400.00	< 400.00
		b-Pinene	18172-67-3	42.50	62.34	49.87	51.57
1		Bromodichloromethane	00075-27-4	< 200.00	< 200.00	< 200.00	< 200.00
1		Bromoform	00075-25-2	< 200.00	< 200.00	< 200.00	< 200.00
1		Bromomethane	00074-83-9	< 200.00	< 200.00	< 200.00	< 200.00
1	2	C11-C12 Branched Alkane		5700.00	7900.00	6900.00	6833.33
1		Carbon Disulfide	00075-15-0	20000.00	30000.00	21000.00	23666.67
1		Carbon Tetrachloride	00056-23-5	< 200.00	< 200.00	< 200.00	< 200.00
1	2	Chloro-4-(1-Chloroethenyl)Cyclohexene			800.00	1000.00	600.00
1	2	Chloro-5-(1-Chloroethenyl)Cyclohexene			800.00	1000.00	600.00
1		Chlorobenzene	00108-90-7	< 200.00	< 200.00	< 200.00	< 200.00
1		Chlorodibromomethane	00124-48-1	< 200.00	< 200.00	< 200.00	< 200.00
1		Chloroethane	00075-00-3	< 200.00	< 200.00	< 200.00	< 200.00
1		Chloroform	00067-66-3	< 200.00	< 200.00	< 200.00	< 200.00
1		Chloromethane	00074-87-3	< 200.00	< 200.00	< 200.00	< 200.00

TRC

Table H.1 - 3 Calender 1
Speciated Volatiles

	Compounds	CAS Numbers	Compound # 12 Run 1 µg/m³	Run 2 µg/m³	Run 3 µg/m³	Average µg/m³
1	cis-1,2-Dichloroethene	00156-59-2	< 200.00	< 200.00	< 200.00	< 200.00
1	cis-1,3-Dichloropropene	10061-01-5	< 200.00	< 200.00	< 200.00	< 200.00
	cis-2-Butene	590-18-1	< 1.17	< 1.17	< 1.17	< 1.17
	cis-2-Hexene	7688-21-3	< 1.17	< 1.17	< 1.17	< 1.17
	cis-2-Pentene	627-20-3	4.90	16.34	35.59	18.94
	Cumene	98-82-8	5.39	8.33	5.33	6.35
	Cyclohexane	110-82-7	16.92	20.42	16.34	17.89
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	2.67	4.42	< 1.30	< 2.80
	Cyclopentene	142-29-0	< 1.13	< 1.13	< 1.13	< 1.13
1	Dichlorodifluoromethane	00075-71-8	< 200.00	< 200.00	< 200.00	< 200.00
	d-Limonene	5989-27-5	266.35	430.70	266.35	321.13
1	Epichlorohydrin	00106-89-8	< 400.00	< 400.00	< 400.00	< 400.00
	Ethane	74-84-0	106.32	37.52	21.89	55.24
1 2	Ethyl Acetate			3000.00	2000.00	1666.67
	Ethylacetylene	107-00-6	< 1.13	< 1.13	< 1.13	< 1.13
	Ethylbenzene	100-41-4	13.25	26.50	14.90	18.22
	Ethylene	74-85-1	18.67	12.84	12.84	14.78
1 2	Heptane			800.00	800.00	533.33
1	Hexachlorobutadiene	00087-68-3	< 400.00	< 400.00	< 400.00	< 400.00
	Isobutane	75-28-5	8.46	6.04	5.56	6.69
	Isobutylene + 1-Butene	115-11-7/106-98-9	46.68	70.02	54.26	56.99
	Isooctane	540-84-1	12.47	27.92	20.19	20.19
	Isopentane	78-78-4	53.42	144.06	56.42	84.63
	Isoprene	78-79-5	< 1.13	< 1.13	< 1.13	< 1.13
	Methylacetylene	74-99-7	< 1.08	< 1.08	< 1.08	< 1.08
	Methylcyclohexane	108-87-2	52.51	75.85	64.18	64.18
	Methylcyclopentane	96-37-7	8.75	22.76	8.75	13.42
1	Methylene Chloride	00075-09-2	< 200.00	230.00	630.00	< 353.33
1 2	Methylhexane			800.00	700.00	500.00
	m-Ethyltoluene	620-14-4	26.11	< 1.11	23.89	< 17.04
	m-Xylene + p-Xylene	108-38-3/106-42-3	49.13	66.24	52.44	55.94
	n-Butane	106-97-8	18.13	13.90	8.46	13.50
	n-Decane	124-18-5	71.02	< 5.92	76.94	< 51.29
	n-Heptane	142-82-5	113.14	375.14	256.05	248.11
	n-Hexane	110-54-3	37.64	654.69	230.50	307.61
	n-Nonane	111-84-2	18.38	28.45	13.63	20.16
	n-Octane	111-65-9	3.09	4.99	3.09	3.72
	n-Pentane	109-66-0	7.20	9.00	5.52	7.24
	n-Propylbenzene	103-65-1	< 1.11	3.28	< 1.11	< 1.83
	o-Ethyltoluene	611-14-3	10.56	23.89	12.78	15.74
	o-Xylene	95-47-6	20.43	34.23	8.83	21.16
	p-Cymene	99-87-6	17.31	22.89	< 5.58	< 15.26
	p-Ethyltoluene	622-96-8	< 1.11	43.33	< 1.11	< 15.18
	Propane	74-98-6	207.89	146.74	140.63	165.09
	Propylene	115-07-1	5.08	4.78	3.27	4.38
1	Propylene Oxide	00075-56-9	< 400.00	< 400.00	< 400.00	< 400.00
	Styrene	100-42-5	7.58	9.75	3.25	6.86
1	t-Butyl Methyl Ether	01634-04-4	< 400.00	< 400.00	< 400.00	< 400.00
1	Tetrachloroethene	00127-18-4	< 200.00	< 200.00	< 200.00	< 200.00
	Toluene	108-88-3	930.82	531.11	169.74	543.89
1	trans-1,2-Dichloroethene	00156-60-5	< 200.00	< 200.00	< 200.00	< 200.00
1	trans-1,2-Dichloropropene	10061-01-5	< 200.00	< 200.00	< 200.00	< 200.00
	trans-2-Butene	624-64-6	< 1.17	< 1.17	< 1.17	< 1.17
	trans-2-Hexene	4050-45-7	< 1.17	< 1.17	< 1.17	< 1.17
	trans-2-Pentene	646-04-8	< 1.17	< 1.17	< 1.17	< 1.17
1	Trichloroethene	00079-01-6	< 200.00	< 200.00	< 200.00	< 200.00
1	Trichlorofluoromethane	00075-69-4	< 200.00	< 200.00	< 200.00	< 200.00
1	Trichlortrifluoroethane	00076-13-1	< 200.00	< 200.00	< 200.00	< 200.00
1	Vinyl Acetate	00108-05-4	< 200.00	< 200.00	< 200.00	< 200.00
1	Vinyl Chloride	00075-01-4	< 200.00	< 200.00	< 200.00	< 200.00
	Total Detected		28470.59	49313.41	36596.51	37462.33
	Total with non-detects		< 40508.29	< 61146.81	< 48439.93	< 50031.68

1 - Results from Method TO-14 *2 - Tentatively Identified Compound*

TRC

Table H.1 - 3 Calender 1
Speciated Volatiles

		Compounds	CAS Numbers	Compound # 12 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
		1-Heptene	592-76-7	2.46E-06	7.10E-06	4.97E-06	4.85E-06
		1-Hexene	592-41-6	< 1.09E-07	2.30E-07	< 1.09E-07	< 1.49E-07
		1-Octene	111-60-0	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
		1-Pentene	109-67-1	6.01E-06	9.84E-07	4.32E-06	3.77E-06
1		1,1-Dichloroethane	00075-35-4	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		1,1-Dichloroethane	00075-34-3	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		1,1,1-Trichloroethane	00071-55-6	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		1,1,2-Trichloroethane	00079-00-5	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		1,1,2,2-Tetrachloroethane	00079-34-5	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		1,2-Dibromo-3-Chloropropane	00096-12-8	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
1		1,2-Dibromoethane	00106-93-4	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		1,2-Dichlorobenzene	00095-50-1	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		1,2-Dichloroethane	00107-06-2	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		1,2-Dichloropropane	00078-87-5	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
		1,2,4-Trimethylbenzene	95-63-6	2.50E-06	4.63E-06	1.98E-06	3.03E-06
		1,3-Butadiene	106-99-0	< 1.05E-07	< 1.05E-07	< 1.05E-07	< 1.05E-07
1		1,3-Dichlorobenzene	00541-73-1	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
		1,3,5-Trimethylbenzene	108-67-8	< 5.20E-07	< 5.20E-07	< 5.20E-07	< 5.20E-07
1		1,4-Dichlorobenzene	00106-46-7	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
		1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 5.23E-07	7.32E-05	< 5.23E-07	< 2.47E-05
1		1,4-Dioxane	00123-91-1	< 7.49E-05	< 7.49E-05	< 7.49E-05	< 7.49E-05
1		2-Butanone	00078-93-3	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
1		2-Hexanone	00591-78-6	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
		2-Methyl-1-butene	563-46-2	< 1.09E-07	1.37E-06	1.97E-06	< 1.15E-06
		2-Methyl-2-butene	513-35-9	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
		2-Methyl-2-pentene	625-27-4	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
		2-Methylheptane	592-27-8	< 1.11E-07	2.06E-06	< 1.11E-07	< 7.60E-07
		2-Methylhexane	591-76-4	7.25E-06	2.68E-05	1.84E-05	1.75E-05
		2-Methylpentane	107-83-5	4.59E-07	8.95E-07	2.85E-07	5.46E-07
		2,2-Dimethylbutane	75-83-2	< 1.12E-07	< 1.12E-07	< 1.12E-07	< 1.12E-07
		2,2-Dimethylpropane	463-82-1	< 1.12E-07	< 1.12E-07	< 1.12E-07	< 1.12E-07
		2,3-Dimethylpentane	565-59-3	2.68E-06	8.36E-06	6.13E-06	5.73E-06
		2,3,4-Trimethylpentane	565-75-3	< 1.11E-07	< 1.11E-07	< 1.11E-07	< 1.11E-07
		2,4-Dimethylhexane	589-43-5	1.84E-06	4.34E-06	3.17E-06	3.11E-06
		3-Methylhexane	589-34-4	1.17E-05	3.85E-05	2.62E-05	2.55E-05
		3-Methylpentane	96-14-0	2.41E-06	5.37E-06	2.69E-06	3.49E-06
		4-Methyl-1-pentene	691-37-2	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
1		4-Methyl-2-pentanone	00108-10-1	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		Acetone	00067-64-1	1.40E-05	1.59E-05	1.50E-05	1.50E-05
1		Acetonitrile	01722-09-4	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
		Acetylene	74-86-2	6.59E-07	4.82E-07	5.58E-07	5.66E-07
1		Acrolein	00107-02-8	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
1		Acrylonitrile	00107-13-1	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
1		Allyl Chloride	00107-05-1	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
		a-Pinene	7785-70-8	< 1.06E-07	< 1.06E-07	< 1.06E-07	< 1.06E-07
		Benzene	71-43-2	1.17E-06	1.32E-06	9.64E-07	1.15E-06
1		Benzyl Chloride	00100-44-7	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
		b-Pinene	18172-67-3	3.98E-06	5.84E-06	4.67E-06	4.83E-06
1		Bromodichloromethane	00075-27-4	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		Bromoform	00075-25-2	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		Bromomethane	00074-83-9	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1	2	C11-C12 Branched Alkane		5.34E-04	7.40E-04	6.46E-04	6.40E-04
1		Carbon Disulfide	00075-15-0	1.87E-03	2.81E-03	1.97E-03	2.22E-03
1		Carbon Tetrachloride	00056-23-5	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1	2	Chloro-4-(1-Chloroethenyl)Cyclohexene		0.00E+00	7.49E-05	9.37E-05	5.62E-05
1	2	Chloro-5-(1-Chloroethenyl)Cyclohexene		0.00E+00	7.49E-05	9.37E-05	5.62E-05
1		Chlorobenzene	00108-90-7	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		Chlorodibromomethane	00124-48-1	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		Chloroethane	00075-00-3	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		Chloroform	00067-66-3	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1		Chloromethane	00074-87-3	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05

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Table H.1 - 3 Calender 1
Speciated Volatiles

	Compounds	CAS Numbers	Compound # 12 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
1	cis-1,2-Dichloroethene	00156-59-2	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1	cis-1,3-Dichloropropene	10061-01-5	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
	cis-2-Butene	590-18-1	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
	cis-2-Hexene	7688-21-3	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
	cis-2-Pentene	627-20-3	4.59E-07	1.53E-06	3.33E-06	1.77E-06
	Cumene	98-82-8	5.05E-07	7.80E-07	4.99E-07	5.95E-07
	Cyclohexane	110-82-7	1.58E-06	1.91E-06	1.53E-06	1.68E-06
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	2.50E-07	4.14E-07	< 1.22E-07	< 2.62E-07
	Cyclopentene	142-29-0	< 1.06E-07	< 1.06E-07	< 1.06E-07	< 1.06E-07
1	Dichlorodifluoromethane	00075-71-8	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
	d-Limonene	5989-27-5	2.49E-05	4.03E-05	2.49E-05	3.01E-05
1	Epichlorohydrin	00106-89-8	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
	Ethane	74-84-0	9.96E-06	3.51E-06	2.05E-06	5.17E-06
1 2	Ethyl Acetate		0.00E+00	2.81E-04	1.87E-04	1.56E-04
	Ethylacetylene	107-00-6	< 1.05E-07	< 1.05E-07	< 1.05E-07	< 1.05E-07
	Ethylbenzene	100-41-4	1.24E-06	2.48E-06	1.40E-06	1.71E-06
	Ethylene	74-85-1	1.75E-06	1.20E-06	1.20E-06	1.38E-06
1 2	Heptane		0.00E+00	7.49E-05	7.49E-05	4.99E-05
1	Hexachlorobutadiene	00087-68-3	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
	Isobutane	75-28-5	7.92E-07	5.66E-07	5.21E-07	6.26E-07
	Isobutylene + 1-Butene	115-11-7/106-98-9	4.37E-06	6.56E-06	5.08E-06	5.34E-06
	Isooctane	540-84-1	1.17E-06	2.61E-06	1.89E-06	1.89E-06
	Isopentane	78-78-4	5.00E-06	1.35E-05	5.28E-06	7.93E-06
	Isoprene	78-79-5	< 1.06E-07	< 1.06E-07	< 1.06E-07	< 1.06E-07
	Methylacetylene	74-99-7	< 1.01E-07	< 1.01E-07	< 1.01E-07	< 1.01E-07
	Methylcyclohexane	108-87-2	4.92E-06	7.10E-06	6.01E-06	6.01E-06
	Methylcyclopentane	96-37-7	8.20E-07	2.13E-06	8.20E-07	1.26E-06
1	Methylene Chloride	00075-09-2	< 1.87E-05	2.15E-05	5.90E-05	< 3.31E-05
1 2	Methylhexane		0.00E+00	7.49E-05	6.56E-05	4.68E-05
	m-Ethyltoluene	620-14-4	2.45E-06	< 1.04E-07	2.24E-06	< 1.60E-06
	m-Xylene + p-Xylene	108-38-3/106-42-3	4.60E-06	6.20E-06	4.91E-06	5.24E-06
	n-Butane	106-97-8	1.70E-06	1.30E-06	7.92E-07	1.26E-06
	n-Decane	124-18-5	6.65E-06	< 5.54E-07	7.21E-06	< 4.80E-06
	n-Heptane	142-82-5	1.06E-05	3.51E-05	2.40E-05	2.32E-05
	n-Hexane	110-54-3	3.52E-06	6.13E-05	2.16E-05	2.88E-05
	n-Nonane	111-84-2	1.72E-06	2.66E-06	1.28E-06	1.89E-06
	n-Octane	111-65-9	2.89E-07	4.67E-07	2.89E-07	3.49E-07
	n-Pentane	109-66-0	6.75E-07	8.43E-07	5.17E-07	6.78E-07
	n-Propylbenzene	103-65-1	< 1.04E-07	3.07E-07	< 1.04E-07	< 1.72E-07
	o-Ethyltoluene	611-14-3	9.88E-07	2.24E-06	1.20E-06	1.47E-06
	o-Xylene	95-47-6	1.91E-06	3.21E-06	8.27E-07	1.98E-06
	p-Cymene	99-87-6	1.62E-06	2.14E-06	< 5.23E-07	< 1.43E-06
	p-Ethyltoluene	622-96-8	< 1.04E-07	4.06E-06	< 1.04E-07	< 1.42E-06
	Propane	74-98-6	1.95E-05	1.37E-05	1.32E-05	1.55E-05
	Propylene	115-07-1	4.75E-07	4.48E-07	3.06E-07	4.10E-07
1	Propylene Oxide	00075-56-9	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
	Styrene	100-42-5	7.10E-07	9.13E-07	3.04E-07	6.42E-07
1	t-Butyl Methyl Ether	01634-04-4	< 3.75E-05	< 3.75E-05	< 3.75E-05	< 3.75E-05
1	Tetrachloroethene	00127-18-4	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
	Toluene	108-88-3	8.72E-05	4.97E-05	1.59E-05	5.09E-05
1	trans-1,2-Dichloroethene	00156-60-5	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1	trans-1,2-Dichloropropene	10061-01-5	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
	trans-2-Butene	624-64-6	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
	trans-2-Hexene	4050-45-7	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
	trans-2-Pentene	646-04-8	< 1.09E-07	< 1.09E-07	< 1.09E-07	< 1.09E-07
1	Trichloroethene	00079-01-6	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1	Trichlorofluoromethane	00075-69-4	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1	Trichlortrifluoroethane	00076-13-1	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1	Vinyl Acetate	00108-05-4	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
1	Vinyl Chloride	00075-01-4	< 1.87E-05	< 1.87E-05	< 1.87E-05	< 1.87E-05
	Total Detected		2.67E-03	4.62E-03	3.43E-03	3.51E-03
	Total with non-detects		< 3.79E-03	< 5.73E-03	< 4.54E-03	< 4.69E-03

1 - Results from Method TO-14 *2 - Tentatively Identified Compound*

TRC

Table H.1 - 3 Calender 1
Speciated Volatiles

			Compound # 12			
	Compounds	CAS Numbers	Run 1 lb/lb rubber	Run 2 lb/lb rubber	Run 3 lb/lb rubber	Average lb/lb rubber
	1-Heptene	592-76-7	2.35E-09	1.05E-08	4.78E-09	5.88E-09
	1-Hexene	592-41-6	< 1.04E-10	3.39E-10	< 1.05E-10	< 1.83E-10
	1-Octene	111-60-0	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
	1-Pentene	109-67-1	5.73E-09	1.45E-09	4.15E-09	3.78E-09
1	1,1-Dichloroethane	00075-35-4	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	1,1-Dichloroethane	00075-34-3	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	1,1,1-Trichloroethane	00071-55-6	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	1,1,2-Trichloroethane	00079-00-5	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
1	1,2-Dibromoethane	00106-93-4	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	1,2-Dichlorobenzene	00095-50-1	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	1,2-Dichloroethane	00107-06-2	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	1,2-Dichloropropane	00078-87-5	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	1,2,4-Trimethylbenzene	95-63-6	2.38E-09	6.85E-09	1.90E-09	3.71E-09
	1,3-Butadiene	106-99-0	< 1.01E-10	< 1.56E-10	< 1.01E-10	< 1.19E-10
1	1,3-Dichlorobenzene	00541-73-1	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	1,3,5-Trimethylbenzene	108-67-8	< 4.96E-10	< 7.69E-10	< 5.00E-10	< 5.88E-10
1	1,4-Dichlorobenzene	00106-46-7	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 4.99E-10	1.08E-07	< 5.02E-10	< 3.64E-08
1	1,4-Dioxane	00123-91-1	< 7.15E-08	< 1.11E-07	< 7.20E-08	< 8.47E-08
1	2-Butanone	00078-93-3	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
1	2-Hexanone	00591-78-6	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	2-Methyl-1-butene	563-46-2	< 1.04E-10	2.02E-09	1.89E-09	< 1.34E-09
	2-Methyl-2-butene	513-35-9	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
	2-Methyl-2-pentene	625-27-4	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
	2-Methylheptane	592-27-8	< 1.06E-10	3.04E-09	< 1.07E-10	< 1.09E-09
	2-Methylhexane	591-76-4	6.92E-09	3.96E-08	1.77E-08	2.14E-08
	2-Methylpentane	107-83-5	4.38E-10	1.32E-09	2.74E-10	6.78E-10
	2,2-Dimethylbutane	75-83-2	< 1.07E-10	< 1.65E-10	< 1.07E-10	< 1.27E-10
	2,2-Dimethylpropane	463-82-1	< 1.07E-10	< 1.66E-10	< 1.08E-10	< 1.27E-10
	2,3-Dimethylpentane	565-59-3	2.55E-09	1.24E-08	5.89E-09	6.94E-09
	2,3,4-Trimethylpentane	565-75-3	< 1.06E-10	< 1.64E-10	< 1.07E-10	< 1.26E-10
	2,4-Dimethylhexane	589-43-5	1.75E-09	6.42E-09	3.05E-09	3.74E-09
	3-Methylhexane	589-34-4	1.12E-08	5.69E-08	2.52E-08	3.11E-08
	3-Methylpentane	96-14-0	2.30E-09	7.94E-09	2.58E-09	4.27E-09
	4-Methyl-1-pentene	691-37-2	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
1	4-Methyl-2-pentanone	00108-10-1	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Acetone	00067-64-1	1.34E-08	2.35E-08	1.44E-08	1.71E-08
1	Acetonitrile	01722-09-4	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
	Acetylene	74-86-2	6.29E-10	7.12E-10	5.36E-10	6.26E-10
1	Acrolein	00107-02-8	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
1	Acrylonitrile	00107-13-1	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
1	Allyl Chloride	00107-05-1	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
	a-Pinene	7785-70-8	< 1.01E-10	< 1.57E-10	< 1.02E-10	< 1.20E-10
	Benzene	71-43-2	1.11E-09	1.95E-09	9.26E-10	1.33E-09
1	Benzyl Chloride	00100-44-7	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
	b-Pinene	18172-67-3	3.80E-09	8.63E-09	4.49E-09	5.64E-09
1	Bromodichloromethane	00075-27-4	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Bromoform	00075-25-2	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Bromomethane	00074-83-9	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	2 C11-C12 Branched Alkane		5.09E-07	1.09E-06	6.21E-07	7.41E-07
1	Carbon Disulfide	00075-15-0	1.79E-06	4.15E-06	1.89E-06	2.61E-06
1	Carbon Tetrachloride	00056-23-5	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	2 Chloro-4-(1-Chloroethenyl)Cyclohexene		0.00E+00	1.11E-07	9.00E-08	6.69E-08
1	2 Chloro-5-(1-Chloroethenyl)Cyclohexene		0.00E+00	1.11E-07	9.00E-08	6.69E-08
1	Chlorobenzene	00108-90-7	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Chlorodibromomethane	00124-48-1	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Chloroethane	00075-00-3	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Chloroform	00067-66-3	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Chloromethane	00074-87-3	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08

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Table H.1 - 3 Calender 1
Speciated Volatiles

	Compounds	CAS Numbers	Compound # 12 Run 1 lb/lb rubber	Run 2 lb/lb rubber	Run 3 lb/lb rubber	Average lb/lb rubber
1	cis-1,2-Dichloroethene	00156-59-2	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	cis-1,3-Dichloropropene	10061-01-5	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	cis-2-Butene	590-18-1	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
	cis-2-Hexene	7688-21-3	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
	cis-2-Pentene	627-20-3	4.38E-10	2.26E-09	3.20E-09	1.97E-09
	Cumene	98-82-8	4.81E-10	1.15E-09	4.80E-10	7.05E-10
	Cyclohexane	110-82-7	1.51E-09	2.83E-09	1.47E-09	1.94E-09
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	2.38E-10	6.12E-10	< 1.17E-10	< 3.22E-10
	Cyclopentene	142-29-0	< 1.01E-10	< 1.57E-10	< 1.02E-10	< 1.20E-10
1	Dichlorodifluoromethane	00075-71-8	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	d-Limonene	5989-27-5	2.38E-08	5.96E-08	2.40E-08	3.58E-08
1	Epichlorohydrin	00106-89-8	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
	Ethane	74-84-0	9.50E-09	5.20E-09	1.97E-09	5.55E-09
1 2	Ethyl Acetate		0.00E+00	4.15E-07	1.80E-07	1.98E-07
	Ethylacetylene	107-00-6	< 1.01E-10	< 1.56E-10	< 1.01E-10	< 1.19E-10
	Ethylbenzene	100-41-4	1.18E-09	3.67E-09	1.34E-09	2.06E-09
	Ethylene	74-85-1	1.67E-09	1.78E-09	1.15E-09	1.53E-09
1 2	Heptane		0.00E+00	1.11E-07	7.20E-08	6.09E-08
1	Hexachlorobutadiene	00087-68-3	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
	Isobutane	75-28-5	7.56E-10	8.37E-10	5.00E-10	6.98E-10
	Isobutylene + 1-Butene	115-11-7/106-98-9	4.17E-09	9.70E-09	4.88E-09	6.25E-09
	Isooctane	540-84-1	1.11E-09	3.87E-09	1.82E-09	2.27E-09
	Isopentane	78-78-4	4.77E-09	1.99E-08	5.08E-09	9.93E-09
	Isoprene	78-79-5	< 1.01E-10	< 1.57E-10	< 1.02E-10	< 1.20E-10
	Methylacetylene	74-99-7	< 9.68E-11	< 1.50E-10	< 9.74E-11	< 1.15E-10
	Methylcyclohexane	108-87-2	4.69E-09	1.05E-08	5.77E-09	6.99E-09
	Methylcyclopentane	96-37-7	7.82E-10	3.15E-09	7.87E-10	1.57E-09
1	Methylene Chloride	00075-09-2	< 1.79E-08	3.18E-08	5.67E-08	< 3.55E-08
1 2	Methylhexane		0.00E+00	1.11E-07	6.30E-08	5.79E-08
	m-Ethyltoluene	620-14-4	2.33E-09	< 1.54E-10	2.15E-09	< 1.55E-09
	m-Xylene + p-Xylene	108-38-3/106-42-3	4.39E-09	9.17E-09	4.72E-09	6.09E-09
	n-Butane	106-97-8	1.62E-09	1.93E-09	7.61E-10	1.44E-09
	n-Decane	124-18-5	6.35E-09	< 8.20E-10	6.92E-09	< 4.70E-09
	n-Heptane	142-82-5	1.01E-08	5.19E-08	2.30E-08	2.84E-08
	n-Hexane	110-54-3	3.36E-09	9.07E-08	2.07E-08	3.83E-08
	n-Nonane	111-84-2	1.64E-09	3.94E-09	1.23E-09	2.27E-09
	n-Octane	111-65-9	2.76E-10	6.91E-10	2.78E-10	4.15E-10
	n-Pentane	109-66-0	6.44E-10	1.25E-09	4.97E-10	7.96E-10
	n-Propylbenzene	103-65-1	< 9.93E-11	4.54E-10	< 9.99E-11	< 2.18E-10
	o-Ethyltoluene	611-14-3	9.43E-10	3.31E-09	1.15E-09	1.80E-09
	o-Xylene	95-47-6	1.82E-09	4.74E-09	7.95E-10	2.45E-09
	p-Cymene	99-87-6	1.55E-09	3.17E-09	< 5.02E-10	< 1.74E-09
	p-Ethyltoluene	622-96-8	< 9.93E-11	6.00E-09	< 9.99E-11	< 2.07E-09
	Propane	74-98-6	1.86E-08	2.03E-08	1.27E-08	1.72E-08
	Propylene	115-07-1	4.54E-10	6.63E-10	2.94E-10	4.70E-10
1	Propylene Oxide	00075-56-9	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
	Styrene	100-42-5	6.77E-10	1.35E-09	2.92E-10	7.73E-10
1	t-Butyl Methyl Ether	01634-04-4	< 3.57E-08	< 5.54E-08	< 3.60E-08	< 4.24E-08
1	Tetrachloroethene	00127-18-4	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	Toluene	108-88-3	8.32E-08	7.35E-08	1.53E-08	5.73E-08
1	trans-1,2-Dichloroethene	00156-60-5	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	trans-1,2-Dichloropropene	10061-01-5	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	trans-2-Butene	624-64-6	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
	trans-2-Hexene	4050-45-7	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
	trans-2-Pentene	646-04-8	< 1.04E-10	< 1.62E-10	< 1.05E-10	< 1.24E-10
1	Trichloroethene	00079-01-6	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Trichlorofluoromethane	00075-69-4	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Trichlortrifluoroethane	00076-13-1	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Vinyl Acetate	00108-05-4	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
1	Vinyl Chloride	00075-01-4	< 1.79E-08	< 2.77E-08	< 1.80E-08	< 2.12E-08
	Total Detected		2.54E-06	6.83E-06	3.29E-06	4.14E-06
	Total with non-detects		< 3.62E-06	< 8.47E-06	< 4.36E-06	< 5.48E-06

1 - Results from Method TO-14 *2 - Tentatively Identified Compound*

TRC

Table H.1 - 4 Calender 1
Sulfur Summary

Compounds	CAS Numbers	Compound # 12							
		Run 1 µg/m³		Run 2 µg/m³		Run 3 µg/m³		Average µg/m³	
Carbonyl Sulfide	463-58-1		359		438		366		388
Methyl Mercaptan	74-93-1	<	7.90	<	7.90	<	7.90	<	7.90
Ethyl Mercaptan	75-08-1	<	10.0	<	10.0	<	10.0	<	10.0
Dimethyl Sulfide	75-18-3	<	10.0	<	10.0	<	10.0	<	10.0
Carbon Disulfide	75-15-0		16200.0		21500.0		17400.0		18366.7
Isopropyl Mercaptan	75-33-2	<	12.0	<	12.0	<	12.0	<	12.0
tert-Butyl Mercaptan	75-66-1	<	15.0	<	15.0	<	15.0	<	15.0
n-Propyl Mercaptan	107-03-9	<	12.0	<	12.0	<	12.0	<	12.0
Ethyl Methyl Sulfide	624-89-5	<	12.0	<	12.0	<	12.0	<	12.0
Thiophene	110-02-1	<	14.0	<	14.0	<	14.0	<	14.0
Isobutyl Mercaptan	513-44-0	<	15.0	<	15.0	<	15.0	<	15.0
Diethyl Sulfide	352-93-2	<	15.0	<	15.0	<	15.0	<	15.0
n-Butyl Mercaptan	109-79-5	<	15.0	<	15.0	<	15.0	<	15.0
Dimethyl Disulfide	624-92-0	<	7.70	<	7.70	<	7.70	<	7.7
3-Methylthiophene	616-44-4	<	16.0	<	16.0	<	16.0	<	16.0
Tetrahydrothiophene	110-01-0	<	14.0	<	14.0	<	14.0	<	14.0
2-Ethylthiophene	872-55-9	<	18.0	<	18.0	<	18.0	<	18.0
2,5-Dimethylthiophene	638-02-8	<	18.0	<	18.0	<	18.0	<	18.0
Diethyl Disulfide	110-81-6	<	10.0	<	10.0	<	10.0	<	10.0
TOTAL Detected			16559.0		21938.0		17766.0		18754.3
TOTAL with non-detects		<	16780.6	<	22159.6	<	17987.6	<	18975.933

TRC

Table H.1 - 4 Calender 1
Sulfur Summary

Compounds	CAS Numbers	Compound # 12 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
Carbonyl Sulfide	463-58-1	3.36E-05	4.10E-05	3.43E-05	3.63E-05
Methyl Mercaptan	74-93-1	< 7.40E-07	< 7.40E-07	< 7.40E-07	< 7.40E-07
Ethyl Mercaptan	75-08-1	< 9.37E-07	< 9.37E-07	< 9.37E-07	< 9.37E-07
Dimethyl Sulfide	75-18-3	< 9.37E-07	< 9.37E-07	< 9.37E-07	< 9.37E-07
Carbon Disulfide	75-15-0	1.52E-03	2.01E-03	1.63E-03	1.72E-03
Isopropyl Mercaptan	75-33-2	< 1.12E-06	< 1.12E-06	< 1.12E-06	< 1.12E-06
tert-Butyl Mercaptan	75-66-1	< 1.40E-06	< 1.40E-06	< 1.40E-06	< 1.40E-06
n-Propyl Mercaptan	107-03-9	< 1.12E-06	< 1.12E-06	< 1.12E-06	< 1.12E-06
Ethyl Methyl Sulfide	624-89-5	< 1.12E-06	< 1.12E-06	< 1.12E-06	< 1.12E-06
Thiophene	110-02-1	< 1.31E-06	< 1.31E-06	< 1.31E-06	< 1.31E-06
Isobutyl Mercaptan	513-44-0	< 1.40E-06	< 1.40E-06	< 1.40E-06	< 1.40E-06
Diethyl Sulfide	352-93-2	< 1.40E-06	< 1.40E-06	< 1.40E-06	< 1.40E-06
n-Butyl Mercaptan	109-79-5	< 1.40E-06	< 1.40E-06	< 1.40E-06	< 1.40E-06
Dimethyl Disulfide	624-92-0	< 7.21E-07	< 7.21E-07	< 7.21E-07	< 7.21E-07
3-Methylthiophene	616-44-4	< 1.50E-06	< 1.50E-06	< 1.50E-06	< 1.50E-06
Tetrahydrothiophene	110-01-0	< 1.31E-06	< 1.31E-06	< 1.31E-06	< 1.31E-06
2-Ethylthiophene	872-55-9	< 1.69E-06	< 1.69E-06	< 1.69E-06	< 1.69E-06
2,5-Dimethylthiophene	638-02-8	< 1.69E-06	< 1.69E-06	< 1.69E-06	< 1.69E-06
Diethyl Disulfide	110-81-6	< 9.37E-07	< 9.37E-07	< 9.37E-07	< 9.37E-07
TOTAL Detected		1.55E-03	2.05E-03	1.66E-03	1.76E-03
TOTAL with non-detects		< 1.57E-03	< 2.08E-03	< 1.68E-03	< 1.78E-03

TRC

Table H.1 - 4 Calender 1
Sulfur Summary

Compounds	CAS Numbers	Compound # 12							
		Run 1 lb/lb rubber		Run 2 lb/lb rubber		Run 3 lb/lb rubber		Average lb/lb rubber	
Carbonyl Sulfide	463-58-1		3.21E-08		6.07E-08		3.29E-08		4.19E-08
Methyl Mercaptan	74-93-1	<	7.06E-10	<	1.09E-09	<	7.11E-10	<	8.37E-10
Ethyl Mercaptan	75-08-1	<	8.93E-10	<	1.38E-09	<	9.00E-10	<	1.06E-09
Dimethyl Sulfide	75-18-3	<	8.93E-10	<	1.38E-09	<	9.00E-10	<	1.06E-09
Carbon Disulfide	75-15-0		1.45E-06		2.98E-06		1.57E-06		2.00E-06
Isopropyl Mercaptan	75-33-2	<	1.07E-09	<	1.66E-09	<	1.08E-09	<	1.27E-09
tert-Butyl Mercaptan	75-66-1	<	1.34E-09	<	2.08E-09	<	1.35E-09	<	1.59E-09
n-Propyl Mercaptan	107-03-9	<	1.07E-09	<	1.66E-09	<	1.08E-09	<	1.27E-09
Ethyl Methyl Sulfide	624-89-5	<	1.07E-09	<	1.66E-09	<	1.08E-09	<	1.27E-09
Thiophene	110-02-1	<	1.25E-09	<	1.94E-09	<	1.26E-09	<	1.48E-09
Isobutyl Mercaptan	513-44-0	<	1.34E-09	<	2.08E-09	<	1.35E-09	<	1.59E-09
Diethyl Sulfide	352-93-2	<	1.34E-09	<	2.08E-09	<	1.35E-09	<	1.59E-09
n-Butyl Mercaptan	109-79-5	<	1.34E-09	<	2.08E-09	<	1.35E-09	<	1.59E-09
Dimethyl Disulfide	624-92-0	<	6.88E-10	<	1.07E-09	<	6.93E-10	<	8.16E-10
3-Methylthiophene	616-44-4	<	1.43E-09	<	2.22E-09	<	1.44E-09	<	1.69E-09
Tetrahydrothiophene	110-01-0	<	1.25E-09	<	1.94E-09	<	1.26E-09	<	1.48E-09
2-Ethylthiophene	872-55-9	<	1.61E-09	<	2.49E-09	<	1.62E-09	<	1.91E-09
2,5-Dimethylthiophene	638-02-8	<	1.61E-09	<	2.49E-09	<	1.62E-09	<	1.91E-09
Diethyl Disulfide	110-81-6	<	8.93E-10	<	1.38E-09	<	9.00E-10	<	1.06E-09
TOTAL Detected			1.48E-06		3.04E-06		1.60E-06		2.04E-06
TOTAL with non-detects		<	1.50E-06	<	3.07E-06	<	1.62E-06	<	2.06E-06

TRC

Table H.1 - 5 Calender 1
POM Train Results

	Compound # 12			
	Run-1	Run-2	Run-3	Average
POM- (mg)	0.5	6.3	1.6	2.8
Sample Volume (dscf)	64.850	67.407	72.293	68.183
POM- (mg/m³)	0.27	3.30	0.78	1.45
Flowrate (dscfm)	25	25	26	25
POM (lb/hr)	2.55E-05	3.09E-04	7.61E-05	1.37E-04
Run Time (min)	100.0	98.5	105.0	101.2
Rubber Processed (lbs/hr)	1048.27	676.31	1041.08	921.89
POM (lb/lb rubber)	2.43E-08	4.57E-07	7.31E-08	1.85E-07

TRC

Section H.2

Calender No. 2

(Tire Compound - Ply Coat)

TRC

Section H.2

Calender No. 2

(Tire Compound - Ply Coat)

Table Number	Title	No. of Pages
H.2-1	Calender 2 Summary Table	1
H.2-2	Calender 2 Speciated Semivolatiles	6
H.2-3	Calender 2 Speciated Volatiles	6
H.2-4	Calender 2 Sulfur Summary	3
H.2-5	Calender 2 POM Train Results	1

TRC

Table H.2 - 1 Calender 2
Summary Table

	Compound # 2			
	Run 1	**Run 2**	**Run 3**	**Average**
Run Time (min)	151	168	150	156
Total Rubber (lbs/hr)	3400.33	4403.75	9484.08	5762.72
Total VOC (ppm/run)	6.1	9.4	13.7	9.73
Total VOC (lbs/hr)	1.94E-01	2.87E-01	4.33E-01	3.05E-01
Total VOC (lbs/lb rubber)	6.42E-05	4.80E-05	4.72E-05	5.31E-05
Standard Deviation (lbs/lb rubber)	4.23E-05	2.23E-05	1.36E-05	2.61E-05
Speciated Total Semi Vol (µg/m³)-detected	281.47	371.72	573.74	401.48
Speciated Total Semi Vol (lbs/hr)-detected	1.34E-02	1.70E-02	2.72E-02	1.88E-02
Speciated Total Semi Vol (lbs/lb rubber)-detected	3.93E-06	3.86E-06	2.87E-06	3.51E-06
Speciated Total Semi Vol (lbs/lb rubber)-with non-detects	< 4.49E-06	< 4.28E-06	< 3.05E-06	< 3.94E-06
Speciated Total Vol. (µg/m³)-detected	6997.74	6948.17	7710.95	7160.99
Speciated Total Vol. (lbs/hr)-detected	3.32E-01	3.18E-01	3.66E-01	3.36E-01
Speciated Total Vol. (lbs/lb rubber)-detected	9.76E-05	7.21E-05	3.86E-05	6.89E-05
Speciated Total Vol. (lbs/lb rubber)-with non-detects	< 1.04E-04	< 7.69E-05	< 4.07E-05	< 7.38E-05
Total Sulfur (µg/m³)-detected	167	152	135	151
Total Sulfur (lbs/hr)-detected	7.92E-03	6.95E-03	6.40E-03	7.09E-03
Total Sulfur (lbs/lb rubber)-detected	2.33E-06	1.58E-06	6.75E-07	1.53E-06
Total Sulfur (lbs/lb rubber)-with non-detects	< 5.56E-06	< 3.98E-06	< 1.83E-06	< 3.79E-06
POM (mg/m³)	1.79	2.97	0.31	1.69
POM (lbs/hr)	8.24E-02	1.42E-01	1.43E-02	7.95E-02
POM (lbs/lb rubber)	2.42E-05	3.22E-05	1.51E-06	1.93E-05

TRC

Table H.2 - 2 Calender 2
Speciated Semivolatiles

	CAS Numbers	Compound # 2 Run 1 µg/m³	Run 2 µg/m³	Run 3 µg/m³	Average µg/m³
Pyridine	110-86-1	< 0.25	< 0.31	< 0.29	< 0.28
Phenol	108-95-2	9.52	13.34	35.00	19.29
bis(2-Chloroethyl)ether	111-44-4	< 0.20	< 0.24	< 0.22	< 0.22
2-Chlorophenol	95-57-8	< 0.24	< 0.29	< 0.28	< 0.27
1,3-Dichlorobenzene	541-73-1	< 0.22	< 0.27	< 0.26	< 0.25
1,4-Dichlorobenzene	106-46-7	< 0.22	< 0.27	< 0.26	< 0.25
1,2-Dichlorobenzene	95-50-1	< 0.24	< 0.29	< 0.28	< 0.27
2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.32	< 0.39	< 0.37	< 0.36
Benzyl alcohol	100-51-6	< 0.25	< 0.31	< 0.29	< 0.28
2-Methylphenol	95-48-7	< 0.18	< 0.21	< 0.20	< 0.20
3/4-Methylphenol	108-39-4/106-44-5	< 0.16	< 0.20	< 0.19	< 0.18
N-Nitroso-di-n-propylamine	621-64-7	< 0.48	< 0.58	< 0.55	< 0.53
Hexachloroethane	67-72-1	< 0.32	< 0.39	< 0.37	< 0.36
Nitrobenzene	98-95-3	< 0.23	< 0.27	< 0.23	< 0.24
Isophorone	78-59-1	9.32	15.66	19.55	14.84
2-Nitrophenol	88-75-5	< 0.41	< 0.49	< 0.42	< 0.44
2,4-Dimethylphenol	105-67-9	< 0.17	< 0.20	< 0.17	< 0.18
bis(2-Chloroethoxy)methane	111-91-1	< 0.15	< 0.18	< 0.16	< 0.16
Benzoic acid	65-85-0	5.51	8.31	11.92	8.58
2,4-Dichlorophenol	120-83-2	< 0.27	< 0.32	< 0.28	< 0.29
1,2,4-Trichlorobenzene	120-82-1	< 0.25	< 0.30	< 0.26	< 0.27
Naphthalene	91-20-3	9.49	14.31	16.29	13.36
4-Chloroaniline	106-47-8	< 0.19	< 0.23	< 0.19	< 0.20
Hexachlorobutadiene	87-68-3	< 0.37	< 0.44	< 0.37	< 0.39
4-Chloro-3-methylphenol	59-50-7	< 0.17	< 0.21	< 0.18	< 0.19
2-Methylnaphthalene	91-57-6	16.45	27.36	35.37	26.39
Hexachlorocyclopentadiene	77-47-4	< 0.56	< 0.69	< 0.48	< 0.58
2,4,6-Trichlorophenol	88-06-2	< 0.35	< 0.43	< 0.30	< 0.36
2,4,5-Trichlorophenol	95-95-4	< 0.33	< 0.41	< 0.29	< 0.34
2-Chloronaphthalene	91-58-7	< 0.13	< 0.17	< 0.12	< 0.14
2-Nitroaniline	88-74-4	< 0.54	< 0.66	< 0.46	< 0.55
Dimethylphthalate	131-11-3	< 0.11	< 0.14	< 0.10	< 0.11
2,6-Dinitrotoluene	606-20-2	< 0.43	< 0.53	< 0.37	< 0.44
2,4-Dinitrotoluene	121-14-2	< 0.31	< 0.38	< 0.27	< 0.32
Acenaphthylene	208-96-8	< 0.08	< 0.10	< 0.07	< 0.08
3-Nitroaniline	99-09-2	< 0.42	< 0.52	< 0.37	< 0.44
Acenaphthene	83-32-9	0.32	0.55	0.69	0.52
2,4-Dinitrophenol	105-67-9	< 0.98	< 1.21	< 0.85	< 1.01
4-Nitrophenol	100-02-7	< 0.49	< 0.61	< 0.43	< 0.51
Dibenzofuran	132-64-9	< 0.09	< 0.11	< 0.08	< 0.09
Diethylphthalate	84-66-2	0.13	0.02	0.00	0.05
4-Chlorophenyl-phenylether	70005-72-3	< 0.23	< 0.29	< 0.20	< 0.24
Fluorene	86-73-7	< 0.12	< 0.15	1.03	< 0.43
4-Nitroaniline	100-01-6	< 0.37	< 0.46	< 0.32	< 0.38
4,6-Dinitro-2-methylphenol	534-52-1	< 0.48	< 0.62	< 0.41	< 0.51
4-Bromophenyl-phenylether	101-55-3	< 0.33	< 0.42	< 0.28	< 0.34
Hexachlorobenzene	118-74-1	< 0.26	< 0.34	< 0.22	< 0.28
Pentachlorophenol	87-86-5	< 0.33	< 0.43	< 0.29	< 0.35
Phenanthrene	85-01-8	0.46	0.70	0.79	0.65
Anthracene	120-12-7	< 0.07	< 0.09	< 0.06	< 0.07
Di-n-butylphthalate	84-74-2	0.00	0.00	0.00	0.00
Fluoranthene	206-44-0	0.06	< 0.06	< 0.04	< 0.05
Pyrene	129-00-0	0.20	0.18	0.28	0.22
Butylbenzylphthalate	85-68-7	0.16	0.18	0.04	0.12
3,3'-Dichlorobenzidine	91-94-1	< 0.11	< 0.13	< 0.11	< 0.12
bis(2-Ethylhexyl)phthalate	117-81-7	56.89	46.40	185.41	96.23
Benzo(a)anthracene	56-55-3	< 0.04	< 0.05	< 0.04	< 0.05

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Table H.2 - 2 Calender 2
Speciated Semivolatiles

	CAS Numbers	Compound # 2 Run 1 µg/m³	Run 2 µg/m³	Run 3 µg/m³	Average µg/m³
Chrysene	218-01-9	< 0.04	< 0.05	< 0.04	< 0.05
Di-n-octylphthalate	117-84-0	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(b)fluoranthene	205-99-2	0.05	< 0.05	< 0.04	< 0.05
Benzo(k)fluoranthene	207-08-9	0.04	< 0.05	< 0.04	< 0.04
Benzo(a)pyrene	50-32-8	< 0.04	< 0.05	< 0.04	< 0.05
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.04	< 0.05	< 0.04	< 0.04
Dibenz(a,h)anthracene	53-90-3	< 0.05	< 0.06	< 0.05	< 0.05
Benzo(g,h,i)perylene	191-24-2	< 0.04	< 0.05	< 0.04	< 0.05
n-Nitrosodimethylamine	62-75-9	< 0.82	< 0.72	< 0.66	< 0.73
Cumene	98-82-8	0.92	1.18	1.54	1.21
Aniline	62-53-3	8.44	11.67	8.83	9.65
Benzyl Chloride	100-44-7	< 0.33	< 0.29	< 0.26	< 0.29
Acetophenone	98-86-2	39.33	61.04	59.99	53.45
n-Nitrosomorpholine	59-89-2	< 0.72	< 0.63	< 0.58	< 0.64
o-Toluidine	95-53-4	< 0.36	< 0.31	< 0.29	< 0.32
N,N-Dimethylaniline	121-69-7	< 0.37	< 0.33	< 0.31	< 0.34
1,2-Dibromo-3-chloropropane	96-12-8	< 1.08	< 0.94	< 0.86	< 0.96
o-Anisidine	90-04-0	< 0.63	< 0.57	< 0.53	< 0.57
1,4-Phenylenediamine	106-50-3	< 0.72	< 0.64	< 0.59	< 0.65
N,N-Diethylaniline	91-66-7	< 0.31	< 0.27	< 0.25	< 0.28
a,a,a-Trichlorotoluene	98-07-7	< 0.52	< 0.46	< 0.43	< 0.47
Hydroquinone	123-31-9	< 0.56	< 0.50	21.10	< 7.38
2-Chloroacetophenone	1341-24-8	< 0.25	< 0.22	< 0.21	< 0.23
Biphenyl	92-52-4	1.34	2.02	2.74	2.03
Trifluralin	1582-09-8	< 1.09	< 0.98	< 1.01	< 1.03
4-Aminobiphenyl	92-67-1	< 0.21	< 0.19	< 0.20	< 0.20
Pentachloronitrobenzene	82-68-8	< 2.17	< 1.93	< 2.11	< 2.07
4-Nitrobiphenyl	92-93-3	0.19	< 0.43	< 0.47	< 0.37
Benzidine	92-87-5	< 0.21	< 0.18	< 0.20	< 0.20
4,4'-Methylenedianiline	101-77-9	< 0.41	< 0.35	< 0.39	< 0.38
Dimethylaminoazobenzene	60-11-7	< 0.29	< 0.24	< 0.27	< 0.27
3,3'-Dimethylbenzidine	119-93-7	< 0.24	< 0.20	< 0.23	< 0.22
3,3'-Dimethoxybenzidine	119-90-4	< 0.66	< 0.55	< 0.62	< 0.61
Methylene bis-chloroaniline	101-14-4	< 0.90	< 0.75	< 0.85	< 0.83
3-Furaldehyde	498-60-2	< 0.87	< 0.76	< 0.69	< 0.77
2-Furaldehyde	98-01-1	3.52	5.22	4.23	4.32
Cyclohexylamine	108-91-8	< 0.26	< 0.22	< 0.20	< 0.23
N-Nitrosodiethylamine	55-18-5	< 1.20	< 1.05	< 0.96	< 1.07
Cyclohexanone	108-94-1	6.51	8.45	6.89	7.29
1,3-Cyclooctadiene	1700-10-3	< 0.71	< 0.62	< 0.57	< 0.63
1,5-Cyclooctadiene	111-78-4	19.38	27.94	31.16	26.16
Camphene	79-92-5	< 0.86	< 0.75	< 0.68	< 0.77
Benzaldehyde	100-52-7	4.56	6.05	5.87	5.49
Benzonitrile	100-47-0	27.26	40.79	43.08	37.05
Isooctanol	26952-21-6	< 6.50	< 5.69	< 5.19	< 5.79
1,2,4-Trimethylbenzene	95-63-6	11.77	17.24	18.89	15.97
3-Methylstyrene	100-80-1	< 0.49	< 0.43	< 0.39	< 0.44
4-Methylstyrene	622-97-9	< 0.49	< 0.43	< 0.39	< 0.44
4-Chlorostyrene	1073-67-2	< 0.55	< 0.48	< 0.44	< 0.49
1-Dodecene	112-41-4	< 3.03	< 2.72	< 2.53	< 2.76
Phthalimide	85-41-6	48.91	62.12	61.79	57.60
Diphenylamine	122-39-4	0.72	1.00	1.27	1.00
Total detected		281.47	371.72	573.74	401.48
Total with non-detects		< 3.22E+02	< 4.12E+02	< 6.09E+02	< 4.48E+02

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Table H.2 - 2 Calender 2
Speciated Semivolatiles

	CAS Numbers	Compound # 2 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
Pyridine	110-86-1	< 1.21E-05	< 1.40E-05	< 1.39E-05	< 1.33E-05
Phenol	108-95-2	4.52E-04	6.10E-04	1.66E-03	9.07E-04
bis(2-Chloroethyl)ether	111-44-4	< 9.37E-06	< 1.07E-05	< 1.07E-05	< 1.03E-05
2-Chlorophenol	95-57-8	< 1.16E-05	< 1.35E-05	< 1.32E-05	< 1.28E-05
1,3-Dichlorobenzene	541-73-1	< 1.06E-05	< 1.24E-05	< 1.23E-05	< 1.17E-05
1,4-Dichlorobenzene	106-46-7	< 1.06E-05	< 1.24E-05	< 1.21E-05	< 1.17E-05
1,2-Dichlorobenzene	95-50-1	< 1.14E-05	< 1.33E-05	< 1.32E-05	< 1.27E-05
2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.52E-05	< 1.78E-05	< 1.75E-05	< 1.69E-05
Benzyl alcohol	100-51-6	< 1.21E-05	< 1.40E-05	< 1.37E-05	< 1.32E-05
2-Methylphenol	95-48-7	< 8.41E-06	< 9.79E-06	< 9.71E-06	< 9.30E-06
3/4-Methylphenol	108-39-4/106-44-5	< 7.78E-06	< 8.99E-06	< 8.92E-06	< 8.56E-06
N-Nitroso-di-n-propylamine	621-64-7	< 2.27E-05	< 2.63E-05	< 2.60E-05	< 2.50E-05
Hexachloroethane	67-72-1	< 1.54E-05	< 1.78E-05	< 1.77E-05	< 1.70E-05
Nitrobenzene	98-95-3	< 1.08E-05	< 1.24E-05	< 1.10E-05	< 1.14E-05
Isophorone	78-59-1	4.42E-04	7.16E-04	9.27E-04	6.95E-04
2-Nitrophenol	88-75-5	< 1.94E-05	< 2.23E-05	< 1.97E-05	< 2.05E-05
2,4-Dimethylphenol	105-67-9	< 8.10E-06	< 9.31E-06	< 8.28E-06	< 8.56E-06
bis(2-Chloroethoxy)methane	111-91-1	< 7.30E-06	< 8.34E-06	< 7.48E-06	< 7.71E-06
Benzoic acid	65-85-0	2.61E-04	3.80E-04	5.66E-04	4.02E-04
2,4-Dichlorophenol	120-83-2	< 1.29E-05	< 1.48E-05	< 1.31E-05	< 1.36E-05
1,2,4-Trichlorobenzene	120-82-1	< 1.19E-05	< 1.36E-05	< 1.21E-05	< 1.25E-05
Naphthalene	91-20-3	4.50E-04	6.54E-04	7.73E-04	6.26E-04
4-Chloroaniline	106-47-8	< 9.05E-06	< 1.04E-05	< 9.23E-06	< 9.57E-06
Hexachlorobutadiene	87-68-3	< 1.75E-05	< 1.99E-05	< 1.77E-05	< 1.83E-05
4-Chloro-3-methylphenol	59-50-7	< 8.25E-06	< 9.47E-06	< 8.44E-06	< 8.72E-06
2-Methylnaphthalene	91-57-6	7.81E-04	1.25E-03	1.68E-03	1.24E-03
Hexachlorocyclopentadiene	77-47-4	< 2.65E-05	< 3.16E-05	< 2.29E-05	< 2.70E-05
2,4,6-Trichlorophenol	88-06-2	< 1.65E-05	< 1.96E-05	< 1.43E-05	< 1.68E-05
2,4,5-Trichlorophenol	95-95-4	< 1.56E-05	< 1.86E-05	< 1.35E-05	< 1.59E-05
2-Chloronaphthalene	91-58-7	< 6.35E-06	< 7.54E-06	< 5.57E-06	< 6.49E-06
2-Nitroaniline	88-74-4	< 2.54E-05	< 3.02E-05	< 2.20E-05	< 2.58E-05
Dimethylphthalate	131-11-3	< 5.24E-06	< 6.26E-06	< 4.62E-06	< 5.37E-06
2,6-Dinitrotoluene	606-20-2	< 2.03E-05	< 2.42E-05	< 1.75E-05	< 2.07E-05
2,4-Dinitrotoluene	121-14-2	< 1.46E-05	< 1.73E-05	< 1.27E-05	< 1.49E-05
Acenaphthylene	208-96-8	< 3.81E-06	< 4.49E-06	< 3.34E-06	< 3.88E-06
3-Nitroaniline	99-09-2	< 2.00E-05	< 2.37E-05	< 1.74E-05	< 2.04E-05
Acenaphthene	83-32-9	1.52E-05	2.50E-05	3.30E-05	2.44E-05
2,4-Dinitrophenol	105-67-9	< 4.64E-05	< 5.52E-05	< 4.01E-05	< 4.72E-05
4-Nitrophenol	100-02-7	< 2.33E-05	< 2.78E-05	< 2.02E-05	< 2.38E-05
Dibenzofuran	132-64-9	< 4.29E-06	< 5.13E-06	< 3.66E-06	< 4.36E-06
Diethylphthalate	84-66-2	6.35E-06	9.63E-07	0.00E+00	2.44E-06
4-Chlorophenyl-phenylether	70005-72-3	< 1.10E-05	< 1.32E-05	< 9.55E-06	< 1.12E-05
Fluorene	86-73-7	< 5.56E-06	< 6.74E-06	4.87E-05	< 2.03E-05
4-Nitroaniline	100-01-6	< 1.76E-05	< 2.10E-05	< 1.53E-05	< 1.80E-05
4,6-Dinitro-2-methylphenol	534-52-1	< 2.29E-05	< 2.84E-05	< 1.96E-05	< 2.36E-05
4-Bromophenyl-phenylether	101-55-3	< 1.56E-05	< 1.93E-05	< 1.32E-05	< 1.60E-05
Hexachlorobenzene	118-74-1	< 1.25E-05	< 1.56E-05	< 1.07E-05	< 1.29E-05
Pentachlorophenol	87-86-5	< 1.59E-05	< 1.96E-05	< 1.35E-05	< 1.63E-05
Phenanthrene	85-01-8	2.16E-05	3.21E-05	3.76E-05	3.04E-05
Anthracene	120-12-7	< 3.17E-06	< 4.01E-06	< 2.71E-06	< 3.30E-06
Di-n-butylphthalate	84-74-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluoranthene	206-44-0	3.02E-06	< 2.73E-06	< 1.91E-06	< 2.55E-06
Pyrene	129-00-0	9.37E-06	8.02E-06	1.32E-05	1.02E-05
Butylbenzylphthalate	85-68-7	7.62E-06	8.02E-06	1.75E-06	5.80E-06
3,3'-Dichlorobenzidine	91-94-1	< 5.40E-06	< 5.94E-06	< 5.25E-06	< 5.53E-06
bis(2-Ethylhexyl)phthalate	117-81-7	2.70E-03	2.12E-03	8.80E-03	4.54E-03
Benzo(a)anthracene	56-55-3	< 2.06E-06	< 2.25E-06	< 2.07E-06	< 2.13E-06

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Table H.2 - 2 Calender 2
Speciated Semivolatiles

	CAS Numbers	Compound # 2 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
Chrysene	218-01-9	< 2.06E-06	< 2.25E-06	< 2.07E-06	< 2.13E-06
Di-n-octylphthalate	117-84-0	< 1.27E-06	< 1.44E-06	< 1.27E-06	< 1.33E-06
Benzo(b)fluoranthene	205-99-2	2.54E-06	< 2.25E-06	< 1.91E-06	< 2.23E-06
Benzo(k)fluoranthene	207-08-9	1.90E-06	< 2.25E-06	< 2.07E-06	< 2.07E-06
Benzo(a)pyrene	50-32-8	< 2.06E-06	< 2.25E-06	< 2.07E-06	< 2.13E-06
Indeno(1,2,3-cd)pyrene	193-39-5	< 1.90E-06	< 2.09E-06	< 1.75E-06	< 1.91E-06
Dibenz(a,h)anthracene	53-90-3	< 2.22E-06	< 2.57E-06	< 2.23E-06	< 2.34E-06
Benzo(g,h,i)perylene	191-24-2	< 2.06E-06	< 2.41E-06	< 2.07E-06	< 2.18E-06
n-Nitrosodimethylamine	62-75-9	< 3.90E-05	< 3.29E-05	< 3.12E-05	< 3.44E-05
Cumene	98-82-8	4.37E-05	5.37E-05	7.32E-05	5.69E-05
Aniline	62-53-3	4.01E-04	5.33E-04	4.19E-04	4.51E-04
Benzyl Chloride	100-44-7	< 1.56E-05	< 1.32E-05	< 1.24E-05	< 1.37E-05
Acetophenone	98-86-2	1.87E-03	2.79E-03	2.85E-03	2.50E-03
n-Nitrosomorpholine	59-89-2	< 3.43E-05	< 2.89E-05	< 2.74E-05	< 3.02E-05
o-Toluidine	95-53-4	< 1.70E-05	< 1.43E-05	< 1.35E-05	< 1.49E-05
N,N-Dimethylaniline	121-69-7	< 1.75E-05	< 1.51E-05	< 1.46E-05	< 1.57E-05
1,2-Dibromo-3-chloropropane	96-12-8	< 5.11E-05	< 4.30E-05	< 4.08E-05	< 4.50E-05
o-Anisidine	90-04-0	< 3.00E-05	< 2.58E-05	< 2.50E-05	< 2.69E-05
1,4-Phenylenediamine	106-50-3	< 3.40E-05	< 2.92E-05	< 2.82E-05	< 3.05E-05
N,N-Diethylaniline	91-66-7	< 1.48E-05	< 1.25E-05	< 1.18E-05	< 1.30E-05
a,a,a-Trichlorotoluene	98-07-7	< 2.46E-05	< 2.12E-05	< 2.05E-05	< 2.21E-05
Hydroquinone	123-31-9	< 2.64E-05	< 2.26E-05	1.00E-03	< 3.50E-04
2-Chloroacetophenone	1341-24-8	< 1.19E-05	< 1.03E-05	< 9.87E-06	< 1.07E-05
Biphenyl	92-52-4	6.37E-05	9.21E-05	1.30E-04	9.52E-05
Trifluralin	1582-09-8	< 5.17E-05	< 4.48E-05	< 4.78E-05	< 4.81E-05
4-Aminobiphenyl	92-67-1	< 9.84E-06	< 8.50E-06	< 9.55E-06	< 9.30E-06
Pentachloronitrobenzene	82-68-8	< 1.03E-04	< 8.81E-05	< 1.00E-04	< 9.71E-05
4-Nitrobiphenyl	92-93-3	9.21E-06	< 1.97E-05	< 2.24E-05	< 1.71E-05
Benzidine	92-87-5	< 1.02E-05	< 8.18E-06	< 9.71E-06	< 9.35E-06
4,4'-Methylenedianiline	101-77-9	< 1.95E-05	< 1.59E-05	< 1.86E-05	< 1.80E-05
Dimethylaminoazobenzene	60-11-7	< 1.37E-05	< 1.11E-05	< 1.29E-05	< 1.25E-05
3,3'-Dimethylbenzidine	119-93-7	< 1.13E-05	< 9.15E-06	< 1.08E-05	< 1.04E-05
3,3'-Dimethoxybenzidine	119-90-4	< 3.11E-05	< 2.52E-05	< 2.96E-05	< 2.86E-05
Methylene bis-chloroaniline	101-14-4	< 4.25E-05	< 3.43E-05	< 4.04E-05	< 3.91E-05
3-Furaldehyde	498-60-2	< 4.11E-05	< 3.47E-05	< 3.28E-05	< 3.62E-05
2-Furaldehyde	98-01-1	1.67E-04	2.39E-04	2.01E-04	2.02E-04
Cyclohexylamine	108-91-8	< 1.22E-05	< 1.03E-05	< 9.71E-06	< 1.07E-05
N-Nitrosodiethylamine	55-18-5	< 5.70E-05	< 4.81E-05	< 4.55E-05	< 5.02E-05
Cyclohexanone	108-94-1	3.09E-04	3.86E-04	3.27E-04	3.41E-04
1,3-Cyclooctadiene	1700-10-3	< 3.38E-05	< 2.84E-05	< 2.69E-05	< 2.97E-05
1,5-Cyclooctadiene	111-78-4	9.19E-04	1.28E-03	1.48E-03	1.22E-03
Camphene	79-92-5	< 4.08E-05	< 3.43E-05	< 3.25E-05	< 3.59E-05
Benzaldehyde	100-52-7	2.16E-04	2.77E-04	2.78E-04	2.57E-04
Benzonitrile	100-47-0	1.29E-03	1.86E-03	2.04E-03	1.73E-03
Isooctanol	26952-21-6	< 3.08E-04	< 2.60E-04	< 2.46E-04	< 2.71E-04
1,2,4-Trimethylbenzene	95-63-6	5.59E-04	7.88E-04	8.96E-04	7.48E-04
3-Methylstyrene	100-80-1	< 2.33E-05	< 1.96E-05	< 1.86E-05	< 2.05E-05
4-Methylstyrene	622-97-9	< 2.33E-05	< 1.97E-05	< 1.86E-05	< 2.06E-05
4-Chlorostyrene	1073-67-2	< 2.60E-05	< 2.18E-05	< 2.07E-05	< 2.29E-05
1-Dodecene	112-41-4	< 1.44E-04	< 1.24E-04	< 1.20E-04	< 1.29E-04
Phthalimide	85-41-6	2.32E-03	2.84E-03	2.93E-03	2.70E-03
Diphenylamine	122-39-4	3.41E-05	4.59E-05	6.02E-05	4.67E-05
Total detected		1.34E-02	1.70E-02	2.72E-02	1.88E-02
Total with non-detects		< 1.53E-02	< 1.88E-02	< 2.89E-02	< 2.10E-02

TRC

Table H.2 - 2 Calender 2
Speciated Semivolatiles

	CAS Numbers	Compound # 2 Run 1 lb/lb rubber	Run 2 lb/lb rubber	Run 3 lb/lb rubber	Average lb/lb rubber
Pyridine	110-86-1	< 3.55E-09	< 3.17E-09	< 1.46E-09	< 2.73E-09
Phenol	108-95-2	1.33E-07	1.38E-07	1.75E-07	1.49E-07
bis(2-Chloroethyl)ether	111-44-4	< 2.75E-09	< 2.44E-09	< 1.12E-09	< 2.11E-09
2-Chlorophenol	95-57-8	< 3.41E-09	< 3.06E-09	< 1.39E-09	< 2.62E-09
1,3-Dichlorobenzene	541-73-1	< 3.13E-09	< 2.81E-09	< 1.29E-09	< 2.41E-09
1,4-Dichlorobenzene	106-46-7	< 3.13E-09	< 2.81E-09	< 1.28E-09	< 2.40E-09
1,2-Dichlorobenzene	95-50-1	< 3.36E-09	< 3.02E-09	< 1.39E-09	< 2.59E-09
2,2'-oxybis(1-Chloropropane)	108-60-1	< 4.48E-09	< 4.04E-09	< 1.85E-09	< 3.46E-09
Benzyl alcohol	100-51-6	< 3.55E-09	< 3.17E-09	< 1.44E-09	< 2.72E-09
2-Methylphenol	95-48-7	< 2.47E-09	< 2.22E-09	< 1.02E-09	< 1.91E-09
3/4-Methylphenol	108-39-4/106-44-5	< 2.29E-09	< 2.04E-09	< 9.40E-10	< 1.76E-09
N-Nitroso-di-n-propylamine	621-64-7	< 6.68E-09	< 5.98E-09	< 2.74E-09	< 5.13E-09
Hexachloroethane	67-72-1	< 4.53E-09	< 4.04E-09	< 1.86E-09	< 3.48E-09
Nitrobenzene	98-95-3	< 3.17E-09	< 2.81E-09	< 1.16E-09	< 2.38E-09
Isophorone	78-59-1	1.30E-07	1.62E-07	9.78E-08	1.30E-07
2-Nitrophenol	88-75-5	< 5.70E-09	< 5.06E-09	< 2.08E-09	< 4.28E-09
2,4-Dimethylphenol	105-67-9	< 2.38E-09	< 2.11E-09	< 8.73E-10	< 1.79E-09
bis(2-Chloroethoxy)methane	111-91-1	< 2.15E-09	< 1.89E-09	< 7.89E-10	< 1.61E-09
Benzoic acid	65-85-0	7.68E-08	8.62E-08	5.96E-08	7.42E-08
2,4-Dichlorophenol	120-83-2	< 3.78E-09	< 3.35E-09	< 1.38E-09	< 2.84E-09
1,2,4-Trichlorobenzene	120-82-1	< 3.50E-09	< 3.10E-09	< 1.28E-09	< 2.62E-09
Naphthalene	91-20-3	1.32E-07	1.49E-07	8.15E-08	1.21E-07
4-Chloroaniline	106-47-8	< 2.66E-09	< 2.37E-09	< 9.74E-10	< 2.00E-09
Hexachlorobutadiene	87-68-3	< 5.14E-09	< 4.52E-09	< 1.86E-09	< 3.84E-09
4-Chloro-3-methylphenol	59-50-7	< 2.43E-09	< 2.15E-09	< 8.90E-10	< 1.82E-09
2-Methylnaphthalene	91-57-6	2.30E-07	2.84E-07	1.77E-07	2.30E-07
Hexachlorocyclopentadiene	77-47-4	< 7.80E-09	< 7.18E-09	< 2.42E-09	< 5.80E-09
2,4,6-Trichlorophenol	88-06-2	< 4.86E-09	< 4.44E-09	< 1.51E-09	< 3.60E-09
2,4,5-Trichlorophenol	95-95-4	< 4.58E-09	< 4.23E-09	< 1.43E-09	< 3.41E-09
2-Chloronaphthalene	91-58-7	< 1.87E-09	< 1.71E-09	< 5.88E-10	< 1.39E-09
2-Nitroaniline	88-74-4	< 7.47E-09	< 6.85E-09	< 2.32E-09	< 5.55E-09
Dimethylphthalate	131-11-3	< 1.54E-09	< 1.42E-09	< 4.87E-10	< 1.15E-09
2,6-Dinitrotoluene	606-20-2	< 5.98E-09	< 5.50E-09	< 1.85E-09	< 4.44E-09
2,4-Dinitrotoluene	121-14-2	< 4.30E-09	< 3.93E-09	< 1.34E-09	< 3.19E-09
Acenaphthylene	208-96-8	< 1.12E-09	< 1.02E-09	< 3.53E-10	< 8.31E-10
3-Nitroaniline	99-09-2	< 5.88E-09	< 5.39E-09	< 1.83E-09	< 4.37E-09
Acenaphthene	83-32-9	4.48E-09	5.68E-09	3.48E-09	4.55E-09
2,4-Dinitrophenol	105-67-9	< 1.36E-08	< 1.25E-08	< 4.23E-09	< 1.01E-08
4-Nitrophenol	100-02-7	< 6.86E-09	< 6.30E-09	< 2.13E-09	< 5.10E-09
Dibenzofuran	132-64-9	< 1.26E-09	< 1.17E-09	< 3.86E-10	< 9.38E-10
Diethylphthalate	84-66-2	1.87E-09	2.19E-10	0.00E+00	6.95E-10
4-Chlorophenyl-phenylether	70005-72-3	< 3.22E-09	< 2.99E-09	< 1.01E-09	< 2.41E-09
Fluorene	86-73-7	< 1.63E-09	< 1.53E-09	5.14E-09	< 2.77E-09
4-Nitroaniline	100-01-6	< 5.18E-09	< 4.77E-09	< 1.61E-09	< 3.86E-09
4,6-Dinitro-2-methylphenol	534-52-1	< 6.72E-09	< 6.45E-09	< 2.06E-09	< 5.08E-09
4-Bromophenyl-phenylether	101-55-3	< 4.58E-09	< 4.37E-09	< 1.39E-09	< 3.45E-09
Hexachlorobenzene	118-74-1	< 3.69E-09	< 3.53E-09	< 1.12E-09	< 2.78E-09
Pentachlorophenol	87-86-5	< 4.67E-09	< 4.44E-09	< 1.43E-09	< 3.51E-09
Phenanthrene	85-01-8	6.35E-09	7.29E-09	3.96E-09	5.87E-09
Anthracene	120-12-7	< 9.34E-10	< 9.11E-10	< 2.85E-10	< 7.10E-10
Di-n-butylphthalate	84-74-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluoranthene	206-44-0	8.87E-10	< 6.19E-10	< 2.01E-10	< 5.69E-10
Pyrene	129-00-0	2.75E-09	1.82E-09	1.39E-09	1.99E-09
Butylbenzylphthalate	85-68-7	2.24E-09	1.82E-09	1.85E-10	1.42E-09
3,3'-Dichlorobenzidine	91-94-1	< 1.59E-09	< 1.35E-09	< 5.54E-10	< 1.16E-09
bis(2-Ethylhexyl)phthalate	117-81-7	7.94E-07	4.82E-07	9.27E-07	7.34E-07
Benzo(a)anthracene	56-55-3	< 6.07E-10	< 5.10E-10	< 2.18E-10	< 4.45E-10

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Table H.2 - 2 Calender 2
Speciated Semivolatiles

	CAS Numbers	Compound # 2 Run 1 lb/lb rubber	Run 2 lb/lb rubber	Run 3 lb/lb rubber	Average lb/lb rubber
Chrysene	218-01-9	< 6.07E-10	< 5.10E-10	< 2.18E-10	< 4.45E-10
Di-n-octylphthalate	117-84-0	< 3.74E-10	< 3.28E-10	< 1.34E-10	< 2.79E-10
Benzo(b)fluoranthene	205-99-2	7.47E-10	< 5.10E-10	< 2.01E-10	< 4.86E-10
Benzo(k)fluoranthene	207-08-9	5.60E-10	< 5.10E-10	< 2.18E-10	< 4.30E-10
Benzo(a)pyrene	50-32-8	< 6.07E-10	< 5.10E-10	< 2.18E-10	< 4.45E-10
Indeno(1,2,3-cd)pyrene	193-39-5	< 5.60E-10	< 4.74E-10	< 1.85E-10	< 4.06E-10
Dibenz(a,h)anthracene	53-90-3	< 6.54E-10	< 5.83E-10	< 2.35E-10	< 4.91E-10
Benzo(g,h,i)perylene	191-24-2	< 6.07E-10	< 5.47E-10	< 2.18E-10	< 4.57E-10
n-Nitrosodimethylamine	62-75-9	< 1.15E-08	< 7.47E-09	< 3.29E-09	< 7.41E-09
Cumene	98-82-8	1.28E-08	1.22E-08	7.72E-09	1.09E-08
Aniline	62-53-3	1.18E-07	1.21E-07	4.42E-08	9.44E-08
Benzyl Chloride	100-44-7	< 4.58E-09	< 2.99E-09	< 1.31E-09	< 2.96E-09
Acetophenone	98-86-2	5.49E-07	6.33E-07	3.00E-07	4.94E-07
n-Nitrosomorpholine	59-89-2	< 1.01E-08	< 6.56E-09	< 2.89E-09	< 6.51E-09
o-Toluidine	95-53-4	< 5.00E-09	< 3.24E-09	< 1.43E-09	< 3.22E-09
N,N-Dimethylaniline	121-69-7	< 5.14E-09	< 3.42E-09	< 1.54E-09	< 3.37E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 1.50E-08	< 9.76E-09	< 4.30E-09	< 9.70E-09
o-Anisidine	90-04-0	< 8.82E-09	< 5.87E-09	< 2.64E-09	< 5.78E-09
1,4-Phenylenediamine	106-50-3	< 9.99E-09	< 6.63E-09	< 2.97E-09	< 6.53E-09
N,N-Diethylaniline	91-66-7	< 4.34E-09	< 2.84E-09	< 1.24E-09	< 2.81E-09
a,a,a-Trichlorotoluene	98-07-7	< 7.24E-09	< 4.81E-09	< 2.17E-09	< 4.74E-09
Hydroquinone	123-31-9	< 7.75E-09	< 5.14E-09	1.06E-07	< 3.95E-08
2-Chloroacetophenone	1341-24-8	< 3.50E-09	< 2.33E-09	< 1.04E-09	< 2.29E-09
Biphenyl	92-52-4	1.87E-08	2.09E-08	1.37E-08	1.78E-08
Trifluralin	1582-09-8	< 1.52E-08	< 1.02E-08	< 5.04E-09	< 1.01E-08
4-Aminobiphenyl	92-67-1	< 2.89E-09	< 1.93E-09	< 1.01E-09	< 1.94E-09
Pentachloronitrobenzene	82-68-8	< 3.03E-08	< 2.00E-08	< 1.06E-08	< 2.03E-08
4-Nitrobiphenyl	92-93-3	2.71E-09	< 4.48E-09	< 2.37E-09	< 3.19E-09
Benzidine	92-87-5	< 2.99E-09	< 1.86E-09	< 1.02E-09	< 1.96E-09
4,4'-Methylenedianiline	101-77-9	< 5.71E-09	< 3.61E-09	< 1.96E-09	< 3.77E-09
Dimethylaminoazobenzene	60-11-7	< 4.02E-09	< 2.51E-09	< 1.36E-09	< 2.63E-09
3,3'-Dimethylbenzidine	119-93-7	< 3.31E-09	< 2.08E-09	< 1.14E-09	< 2.18E-09
3,3'-Dimethoxybenzidine	119-90-4	< 9.15E-09	< 5.72E-09	< 3.12E-09	< 6.00E-09
Methylene bis-chloroaniline	101-14-4	< 1.25E-08	< 7.80E-09	< 4.26E-09	< 8.19E-09
3-Furaldehyde	498-60-2	< 1.21E-08	< 7.87E-09	< 3.46E-09	< 7.81E-09
2-Furaldehyde	98-01-1	4.91E-08	5.42E-08	2.12E-08	4.15E-08
Cyclohexylamine	108-91-8	< 3.60E-09	< 2.33E-09	< 1.02E-09	< 2.32E-09
N-Nitrosodiethylamine	55-18-5	< 1.68E-08	< 1.09E-08	< 4.80E-09	< 1.08E-08
Cyclohexanone	108-94-1	9.09E-08	8.77E-08	3.45E-08	7.10E-08
1,3-Cyclooctadiene	1700-10-3	< 9.94E-09	< 6.45E-09	< 2.84E-09	< 6.41E-09
1,5-Cyclooctadiene	111-78-4	2.70E-07	2.90E-07	1.56E-07	2.39E-07
Camphene	79-92-5	< 1.20E-08	< 7.80E-09	< 3.42E-09	< 7.74E-09
Benzaldehyde	100-52-7	6.36E-08	6.28E-08	2.93E-08	5.19E-08
Benzonitrile	100-47-0	3.80E-07	4.23E-07	2.15E-07	3.40E-07
Isooctanol	26952-21-6	< 9.07E-08	< 5.90E-08	< 2.60E-08	< 5.86E-08
1,2,4-Trimethylbenzene	95-63-6	1.64E-07	1.79E-07	9.45E-08	1.46E-07
3-Methylstyrene	100-80-1	< 6.86E-09	< 4.44E-09	< 1.96E-09	< 4.42E-09
4-Methylstyrene	622-97-9	< 6.86E-09	< 4.48E-09	< 1.96E-09	< 4.44E-09
4-Chlorostyrene	1073-67-2	< 7.66E-09	< 4.96E-09	< 2.18E-09	< 4.93E-09
1-Dodecene	112-41-4	< 4.23E-08	< 2.82E-08	< 1.26E-08	< 2.77E-08
Phthalimide	85-41-6	6.82E-07	6.45E-07	3.09E-07	5.45E-07
Diphenylamine	122-39-4	1.00E-08	1.04E-08	6.35E-09	8.93E-09
Total detected		3.93E-06	3.86E-06	2.87E-06	3.51E-06
Total with non-detects		< 4.49E-06	< 4.28E-06	< 3.05E-06	< 3.94E-06

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Table H.2 - 3 Calender 2
Speciated Volatiles

		CAS Numbers	Compound # 2 Run 1 µg/m³	Run 2 µg/m³	Run 3 µg/m³	Average µg/m³
	1-Heptene	592-76-7	87.52	70.02	75.85	77.80
	1-Hexene	592-41-6	< 1.17	< 1.17	< 1.17	< 1.17
	1-Octene	111-60-0	< 1.17	< 1.17	< 1.17	< 1.17
	1-Pentene	109-67-1	< 1.17	< 1.17	< 1.17	< 1.17
1	1,1-Dichloroethane	00075-34-3	< 8.00	< 8.00	< 8.00	< 8.00
1	1,1-Dichloroethene	00075-35-4	< 8.00	< 8.00	< 8.00	< 8.00
1	1,1,1-Trichloroethane	00071-55-6	4.60	< 8.00	2.20	< 4.93
1	1,1,2-Trichloroethane	00079-00-5	< 8.00	< 8.00	< 8.00	< 8.00
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 8.00	< 8.00	< 8.00	< 8.00
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 16.00	< 16.00	< 16.00	< 16.00
1	1,2-Dibromoethane	00106-93-4	< 8.00	< 8.00	< 8.00	< 8.00
1	1,2-Dichlorobenzene	00095-50-1	< 8.00	< 8.00	< 8.00	< 8.00
1	1,2-Dichloroethane	00107-06-2	17.00	5.30	15.00	12.43
1	1,2-Dichloropropane	00078-87-5	< 8.00	< 8.00	< 8.00	< 8.00
	1,2,4-Trimethylbenzene	95-63-6	38.33	51.66	40.83	43.61
	1,3-Butadiene	106-99-0	< 1.13	< 1.13	< 1.13	< 1.13
1	1,3-Dichlorobenzene	00541-73-1	< 8.00	< 8.00	< 8.00	< 8.00
	1,3,5-Trimethylbenzene	108-67-8	23.33	16.67	30.00	23.33
1	1,4-Dichlorobenzene	00106-46-7	3.10	< 8.00	< 8.00	< 6.37
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 5.58	11.17	11.72	< 9.49
1	1,4-Dioxane	00123-91-1	< 32.00	< 32.00	< 32.00	< 32.00
1	2-Butanone	00078-93-3	29.00	23.00	28.00	26.67
1	2-Hexanone	00591-78-6	< 8.00	< 8.00	< 8.00	< 8.00
	2-Methyl-1-butene	563-46-2	< 1.17	< 1.17	< 1.17	< 1.17
	2-Methyl-2-butene	513-35-9	5.13	< 1.17	4.03	< 3.44
	2-Methyl-2-pentene	625-27-4	< 1.17	< 1.17	< 1.17	< 1.17
	2-Methylheptane	592-27-8	19.01	17.82	65.34	34.05
	2-Methylhexane	591-76-4	196.50	154.82	172.68	174.67
	2-Methylpentane	107-83-5	22.70	23.90	52.28	32.96
	2,2-Dimethylbutane	75-83-2	< 1.19	< 1.19	4.90	< 2.43
	2,2-Dimethylpropane	463-82-1	< 1.20	< 1.20	< 1.20	< 1.20
	2,3-Dimethylpentane	565-59-3	71.45	54.19	65.50	63.71
	2,3,4-Trimethylpentane	565-75-3	< 1.19	< 1.19	18.12	< 6.83
	2,4-Dimethylhexane	589-43-5	51.67	38.61	50.19	46.82
	3-Methylhexane	589-34-4	440.64	351.32	381.09	391.02
	3-Methylpentane	96-14-0	19.72	17.92	46.30	27.98
	4-Methyl-1-pentene	691-37-2	< 1.17	< 1.17	< 1.17	< 1.17
1	4-Methyl-2-pentanone	00108-10-1	70.00	60.00	65.00	65.00
1	Acetone	00067-64-1	150.00	110.00	120.00	126.67
1	Acetonitrile	01722-09-4	< 16.00	< 16.00	< 16.00	< 16.00
	Acetylene	74-86-2	14.08	9.75	15.98	13.27
1	Acrolein	00107-02-8	< 16.00	8.00	< 16.00	< 13.33
1	Acrylonitrile	00107-13-1	< 16.00	< 16.00	< 16.00	< 16.00
1	Allyl Chloride	00107-05-1	< 16.00	< 16.00	< 16.00	< 16.00
	a-Pinene	7785-70-8	< 1.13	< 1.13	< 1.13	< 1.13
	Benzene	71-43-2	4.55	4.82	4.55	4.64
1	Benzyl Chloride	00100-44-7	< 16.00	< 16.00	< 16.00	< 16.00
1 2	bis(1-Methylethyl) Benzene		200.00		200.00	133.33
	b-Pinene	18172-67-3	14.17	< 5.67	6.23	< 8.69
1	Bromodichloromethane	00075-27-4	< 8.00	< 8.00	< 8.00	< 8.00
1	Bromoform	00075-25-2	< 8.00	< 8.00	< 8.00	< 8.00
1	Bromomethane	00074-83-9	< 8.00	< 8.00	< 8.00	< 8.00
1 2	C9H10 Alkyl Substituted Benzene		600.00			200.00
1	Carbon Disulfide	00075-15-0	260.00	240.00	220.00	240.00
1	Carbon Tetrachloride	00056-23-5	< 8.00	< 8.00	< 8.00	< 8.00
1	Chlorobenzene	00108-90-7	< 8.00	< 8.00	< 8.00	< 8.00
1	Chlorodibromomethane	00124-48-1	< 8.00	< 8.00	< 8.00	< 8.00
1	Chloroethane	00075-00-3	< 8.00	< 8.00	< 8.00	< 8.00
1	Chloroform	00067-66-3	< 8.00	< 8.00	< 8.00	< 8.00
1	Chloromethane	00074-87-3	2.30	2.20	2.10	2.20
1	cis-1,2-Dichloroethene	00156-59-2	< 8.00	< 8.00	< 8.00	< 8.00
1	cis-1,3-Dichloropropene	10061-01-5	< 8.00	< 8.00	< 8.00	< 8.00
	cis-2-Butene	590-18-1	< 1.17	< 1.17	< 1.17	< 1.17
	cis-2-Hexene	7688-21-3	< 1.17	< 1.17	< 1.17	< 1.17
	cis-2-Pentene	627-20-3	< 1.17	< 1.17	< 1.17	< 1.17

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Table H.2 - 3 Calender 2
Speciated Volatiles

		CAS Numbers	Compound # 2 Run 1 µg/m³	Run 2 µg/m³	Run 3 µg/m³	Average µg/m³
	Cumene	98-82-8	6.11	6.67	6.94	6.57
	Cyclohexane	110-82-7	11.67	4.78	12.25	9.57
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	9.75	4.36	11.70	8.60
	Cyclopentene	142-29-0	6.80	7.37	7.37	7.18
1	Dichlorodifluoromethane	00075-71-8	3.10	2.60	3.10	2.93
1 2	Dimethylpentane		100.00	100.00	100.00	100.00
	d-Limonene	5989-27-5	8.50	< 5.67	8.22	< 7.46
1	Epichlorohydrin	00106-89-8	< 16.00	< 16.00	< 16.00	< 16.00
	Ethane	74-84-0	16.89	11.88	17.51	15.43
1 2	Ethenylcyclohexene		300.00	900.00	600.00	600.00
	Ethylacetylene	107-00-6	4.05	4.22	7.79	5.35
	Ethylbenzene	100-41-4	11.59	19.87	20.43	17.30
	Ethylene	74-85-1	22.76	16.34	30.05	23.05
1 2	Ethylpentane		100.00	90.00		63.33
1 2	Heptane		900.00	800.00	900.00	866.67
1	Hexachlorobutadiene	00087-68-3	< 16.00	< 16.00	< 16.00	< 16.00
	Isobutane	75-28-5	6.04	4.96	6.35	5.78
	Isobutylene + 1-Butene	115-11-7/106-98-9	< 1.17	< 1.17	< 1.17	< 1.17
	Isooctane	540-84-1	30.29	23.76	27.32	27.12
	Isopentane	78-78-4	84.03	51.62	58.82	64.83
	Isoprene	78-79-5	< 1.13	< 1.13	< 1.13	< 1.13
	Methylacetylene	74-99-7	< 1.08	< 1.08	< 1.08	< 1.08
	Methylcyclohexane	108-87-2	87.52	64.18	160.46	104.05
	Methylcyclopentane	96-37-7	16.34	11.67	28.30	18.77
1	Methylene Chloride	00079-09-2	< 8.00	< 8.00	8.80	< 8.27
1 2	Methylethenylbenzene			500.00	600.00	366.67
1 2	Methylhexane		1000.00	900.00	900.00	933.33
1 2	Methylhexanone		200.00	200.00	200.00	200.00
	m-Ethyltoluene	620-14-4	13.33	15.00	18.89	15.74
	m-Xylene + p-Xylene	108-38-3/106-42-3	30.36	22.08	40.85	31.10
	n-Butane	106-97-8	3.32	1.81	1.33	2.16
	n-Decane	124-18-5	44.39	43.80	57.11	48.43
	n-Heptane	142-82-5	571.64	446.59	518.05	512.09
	n-Hexane	110-54-3	54.37	45.41	89.62	63.13
	n-Nonane	111-84-2	32.01	25.49	56.91	38.14
	n-Octane	111-65-9	20.19	11.29	65.34	32.27
	n-Pentane	109-66-0	4.92	< 1.20	4.23	< 3.45
	n-Propylbenzene	103-65-1	4.44	4.06	2.03	3.51
1 2	Octane				200.00	66.67
	o-Ethyltoluene	611-14-3	283.32	233.32	274.99	263.88
	o-Xylene	95-47-6	27.60	25.39	40.85	31.28
	p-Cymene	99-87-6	< 5.58	< 5.58	6.14	< 5.77
	p-Ethyltoluene	622-96-8	7.22	7.78	< 1.11	< 5.37
	Propane	74-98-6	305.71	238.46	379.09	307.75
	Propylene	115-07-1	9.34	3.79	9.92	7.68
1	Propylene Oxide	00075-56-9	< 16.00	< 16.00	< 16.00	< 16.00
	Styrene	100-42-5	70.40	22.75	47.93	47.02
1	t-Butyl Methyl Ether	01634-04-4	< 16.00	< 16.00	< 16.00	< 16.00
1	Tetrachloroethene	00127-18-4	< 8.00	< 8.00	< 8.00	< 8.00
	Toluene	108-88-3	224.49	602.30	473.62	433.47
1	trans-1,2-Dichloroethene	00156-60-5	< 8.00	< 8.00	< 8.00	< 8.00
1	trans-1,2-Dichloropropene	10061-01-5	< 8.00	< 8.00	< 8.00	< 8.00
	trans-2-Butene	624-64-6	< 1.17	< 1.17	< 1.17	< 1.17
	trans-2-Hexene	4050-45-7	3.21	3.44	3.27	3.31
	trans-2-Pentene	646-04-8	< 1.17	< 1.17	< 1.17	< 1.17
1	Trichloroethene	00079-01-6	< 8.00	< 8.00	< 8.00	< 8.00
1	Trichlorofluoromethane	00075-69-4	11.00	< 8.00	7.50	< 8.83
1	Trichlortrifluoroethane	00076-13-1	6.20	< 8.00	< 8.00	< 7.40
1 2	Undecane			200.00		66.67
1	Vinyl Acetate	00108-05-4	< 8.00	< 8.00	< 8.00	< 8.00
1	Vinyl Chloride	00075-01-4	< 8.00	< 8.00	< 8.00	< 8.00
	Total detected		6997.74	6948.17	7710.95	7160.99
	Total with non-detects		< 7430.97	< 7405.52	< 8139.74	< 7658.74

1 - Results from Method TO-14, 2 - Tentatively Identified Compound

TRC

Table H.2 - 3 Calender 2
Speciated Volatiles

		CAS Numbers	Compound # 2 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
	1-Heptene	592-76-7	4.15E-03	3.20E-03	3.60E-03	3.65E-03
	1-Hexene	592-41-6	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
	1-Octene	111-60-0	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
	1-Pentene	109-67-1	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
1	1,1-Dichloroethane	00075-34-3	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	1,1-Dichloroethene	00075-35-4	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	1,1,1-Trichloroethane	00071-55-6	2.18E-04	< 3.66E-04	1.04E-04	< 2.29E-04
1	1,1,2-Trichloroethane	00079-00-5	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
1	1,2-Dibromoethane	00106-93-4	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	1,2-Dichlorobenzene	00095-50-1	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	1,2-Dichloroethane	00107-06-2	8.07E-04	2.42E-04	7.12E-04	5.87E-04
1	1,2-Dichloropropane	00078-87-5	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
	1,2,4-Trimethylbenzene	95-63-6	1.82E-03	2.36E-03	1.94E-03	2.04E-03
	1,3-Butadiene	106-99-0	< 5.34E-05	< 5.14E-05	< 5.34E-05	< 5.27E-05
1	1,3-Dichlorobenzene	00541-73-1	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
	1,3,5-Trimethylbenzene	108-67-8	1.11E-03	7.62E-04	1.42E-03	1.10E-03
1	1,4-Dichlorobenzene	00106-46-7	1.47E-04	< 3.66E-04	< 3.80E-04	< 2.97E-04
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 2.65E-04	5.10E-04	5.56E-04	< 4.44E-04
1	1,4-Dioxane	00123-91-1	< 1.52E-03	< 1.46E-03	< 1.52E-03	< 1.50E-03
1	2-Butanone	00078-93-3	1.38E-03	1.05E-03	1.33E-03	1.25E-03
1	2-Hexanone	00591-78-6	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
	2-Methyl-1-butene	563-46-2	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
	2-Methyl-2-butene	513-35-9	2.44E-04	< 5.33E-05	1.91E-04	< 1.63E-04
	2-Methyl-2-pentene	625-27-4	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
	2-Methylheptane	592-27-8	9.02E-04	8.14E-04	3.10E-03	1.61E-03
	2-Methylhexane	591-76-4	9.32E-03	7.08E-03	8.19E-03	8.20E-03
	2-Methylpentane	107-83-5	1.08E-03	1.09E-03	2.48E-03	1.55E-03
	2,2-Dimethylbutane	75-83-2	< 5.67E-05	< 5.46E-05	2.32E-04	< 1.15E-04
	2,2-Dimethylpropane	463-82-1	< 5.70E-05	< 5.49E-05	< 5.70E-05	< 5.63E-05
	2,3-Dimethylpentane	565-59-3	3.39E-03	2.48E-03	3.11E-03	2.99E-03
	2,3,4-Trimethylpentane	565-75-3	< 5.64E-05	< 5.43E-05	8.59E-04	< 3.23E-04
	2,4-Dimethylhexane	589-43-5	2.45E-03	1.76E-03	2.38E-03	2.20E-03
	3-Methylhexane	589-34-4	2.09E-02	1.61E-02	1.81E-02	1.83E-02
	3-Methylpentane	96-14-0	9.35E-04	8.19E-04	2.20E-03	1.32E-03
	4-Methyl-1-pentene	691-37-2	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
1	4-Methyl-2-pentanone	00108-10-1	3.32E-03	2.74E-03	3.08E-03	3.05E-03
1	Acetone	00067-64-1	7.12E-03	5.03E-03	5.69E-03	5.95E-03
1	Acetonitrile	01722-09-4	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
	Acetylene	74-86-2	6.68E-04	4.45E-04	7.58E-04	6.24E-04
1	Acrolein	00107-02-8	< 7.59E-04	3.66E-04	< 7.59E-04	< 6.28E-04
1	Acrylonitrile	00107-13-1	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
1	Allyl Chloride	00107-05-1	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
	a-Pinene	7785-70-8	< 5.38E-05	< 5.18E-05	< 5.38E-05	< 5.31E-05
	Benzene	71-43-2	2.16E-04	2.20E-04	2.16E-04	2.17E-04
1	Benzyl Chloride	00100-44-7	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
1 2	bis(1-Methylethyl) Benzene		9.49E-03	0.00E+00	9.49E-03	6.33E-03
	b-Pinene	18172-67-3	6.72E-04	< 2.59E-04	2.96E-04	< 4.09E-04
1	Bromodichloromethane	00075-27-4	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Bromoform	00075-25-2	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Bromomethane	00074-83-9	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1 2	C9H10 Alkyl Substituted Benzene		2.85E-02	0.00E+00	0.00E+00	9.49E-03
1	Carbon Disulfide	00075-15-0	1.23E-02	1.10E-02	1.04E-02	1.12E-02
1	Carbon Tetrachloride	00056-23-5	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Chlorobenzene	00108-90-7	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Chlorodibromomethane	00124-48-1	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Chloroethane	00075-00-3	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Chloroform	00067-66-3	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Chloromethane	00074-87-3	1.09E-04	1.01E-04	9.96E-05	1.03E-04
1	cis-1,2-Dichloroethene	00156-59-2	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	cis-1,3-Dichloropropene	10061-01-5	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
	cis-2-Butene	590-18-1	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
	cis-2-Hexene	7688-21-3	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
	cis-2-Pentene	627-20-3	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05

TRC

Table H.2 - 3 Calender 2
Speciated Volatiles

		CAS Numbers	Compound # 2 Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
	Cumene	98-82-8	2.90E-04	3.05E-04	3.29E-04	3.08E-04
	Cyclohexane	110-82-7	5.54E-04	2.19E-04	5.81E-04	4.51E-04
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	4.63E-04	1.99E-04	5.55E-04	4.06E-04
	Cyclopentene	142-29-0	3.23E-04	3.37E-04	3.50E-04	3.36E-04
1	Dichlorodifluoromethane	00075-71-8	1.47E-04	1.19E-04	1.47E-04	1.38E-04
1 2	Dimethylpentane		4.74E-03	4.57E-03	4.74E-03	4.69E-03
	d-Limonene	5989-27-5	4.03E-04	< 2.59E-04	3.90E-04	< 3.51E-04
1	Epichlorohydrin	00106-89-8	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
	Ethane	74-84-0	8.01E-04	5.43E-04	8.31E-04	7.25E-04
1 2	Ethenylcyclohexene		1.42E-02	4.11E-02	2.85E-02	2.79E-02
	Ethylacetylene	107-00-6	1.92E-04	1.93E-04	3.70E-04	2.52E-04
	Ethylbenzene	100-41-4	5.50E-04	9.08E-04	9.69E-04	8.09E-04
	Ethylene	74-85-1	1.08E-03	7.47E-04	1.43E-03	1.08E-03
1 2	Ethylpentane		4.74E-03	4.11E-03	0.00E+00	2.95E-03
1 2	Heptane		4.27E-02	3.66E-02	4.27E-02	4.07E-02
1	Hexachlorobutadiene	00087-68-3	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
	Isobutane	75-28-5	2.87E-04	2.27E-04	3.01E-04	2.71E-04
	Isobutylene + 1-Butene	115-11-7/106-98-9	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
	Isooctane	540-84-1	1.44E-03	1.09E-03	1.30E-03	1.27E-03
	Isopentane	78-78-4	3.99E-03	2.36E-03	2.79E-03	3.05E-03
	Isoprene	78-79-5	< 5.38E-05	< 5.18E-05	< 5.38E-05	< 5.31E-05
	Methylacetylene	74-99-7	< 5.14E-05	< 4.95E-05	< 5.14E-05	< 5.08E-05
	Methylcyclohexane	108-87-2	4.15E-03	2.93E-03	7.61E-03	4.90E-03
	Methylcyclopentane	96-37-7	7.75E-04	5.33E-04	1.34E-03	8.84E-04
1	Methylene Chloride	00079-09-2	< 3.80E-04	< 3.66E-04	4.18E-04	< 3.88E-04
1 2	Methylethenylbenzene		0.00E+00	2.29E-02	2.85E-02	1.71E-02
1 2	Methylhexane		4.74E-02	4.11E-02	4.27E-02	4.38E-02
1 2	Methylhexanone		9.49E-03	9.14E-03	9.49E-03	9.37E-03
	m-Ethyltoluene	620-14-4	6.33E-04	6.85E-04	8.96E-04	7.38E-04
	m-Xylene + p-Xylene	108-38-3/106-42-3	1.44E-03	1.01E-03	1.94E-03	1.46E-03
	n-Butane	106-97-8	1.58E-04	8.29E-05	6.31E-05	1.01E-04
	n-Decane	124-18-5	2.11E-03	2.00E-03	2.71E-03	2.27E-03
	n-Heptane	142-82-5	2.71E-02	2.04E-02	2.46E-02	2.40E-02
	n-Hexane	110-54-3	2.58E-03	2.08E-03	4.25E-03	2.97E-03
	n-Nonane	111-84-2	1.52E-03	1.16E-03	2.70E-03	1.79E-03
	n-Octane	111-65-9	9.58E-04	5.16E-04	3.10E-03	1.52E-03
	n-Pentane	109-66-0	2.34E-04	< 5.49E-05	2.01E-04	< 1.63E-04
	n-Propylbenzene	103-65-1	2.11E-04	1.85E-04	9.62E-05	1.64E-04
1 2	Octane		0.00E+00	0.00E+00	9.49E-03	3.16E-03
	o-Ethyltoluene	611-14-3	1.34E-02	1.07E-02	1.30E-02	1.24E-02
	o-Xylene	95-47-6	1.31E-03	1.16E-03	1.94E-03	1.47E-03
	p-Cymene	99-87-6	< 2.65E-04	< 2.55E-04	2.91E-04	< 2.70E-04
	p-Ethyltoluene	622-96-8	3.43E-04	3.55E-04	< 5.27E-05	< 2.50E-04
	Propane	74-98-6	1.45E-02	1.09E-02	1.80E-02	1.45E-02
	Propylene	115-07-1	4.43E-04	1.73E-04	4.71E-04	3.62E-04
1	Propylene Oxide	00075-56-9	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
	Styrene	100-42-5	3.34E-03	1.04E-03	2.27E-03	2.22E-03
1	t-Butyl Methyl Ether	01634-04-4	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
1	Tetrachloroethene	00127-18-4	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
	Toluene	108-88-3	1.07E-02	2.75E-02	2.25E-02	2.02E-02
1	trans-1,2-Dichloroethene	00156-60-5	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	trans-1,2-Dichloropropene	10061-01-5	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
	trans-2-Butene	624-64-6	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
	trans-2-Hexene	4050-45-7	1.52E-04	1.57E-04	1.55E-04	1.55E-04
	trans-2-Pentene	646-04-8	< 5.54E-05	< 5.33E-05	< 5.54E-05	< 5.47E-05
1	Trichloroethene	00079-01-6	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Trichlorofluoromethane	00075-69-4	5.22E-04	< 3.66E-04	3.56E-04	< 4.14E-04
1	Trichlortrifluoroethane	00076-13-1	2.94E-04	< 3.66E-04	< 3.80E-04	< 3.46E-04
1 2	Undecane		0.00E+00	9.14E-03	0.00E+00	3.05E-03
1	Vinyl Acetate	00108-05-4	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
1	Vinyl Chloride	00075-01-4	< 3.80E-04	< 3.66E-04	< 3.80E-04	< 3.75E-04
	Total detected		3.32E-01	3.18E-01	3.66E-01	3.36E-01
	Total with non-detects		< 3.53E-01	< 3.38E-01	< 3.86E-01	< 3.59E-01

1 - Results from Method TO-14, 2 - Tentatively Identified Compound

TRC

Table H.2 - 3 Calender 2
Speciated Volatiles

		CAS Numbers	Compound # 2 Run 1 lb/lb rubber	Run 2 lb/lb rubber	Run 3 lb/lb rubber	Average lb/lb rubber
	1-Heptene	592-76-7	1.22E-06	7.27E-07	3.79E-07	7.76E-07
	1-Hexene	592-41-6	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
	1-Octene	111-60-0	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
	1-Pentene	109-67-1	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
1	1,1-Dichloroethane	00075-34-3	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	1,1-Dichloroethene	00075-35-4	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	1,1,1-Trichloroethane	00071-55-6	6.42E-08	< 8.30E-08	1.10E-08	< 5.27E-08
1	1,1,2-Trichloroethane	00079-00-5	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	1,1,2,2-Tetrachloroethane	00079-34-5	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	1,2-Dibromo-3-Chloropropane	00096-12-8	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
1	1,2-Dibromoethane	00106-93-4	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	1,2-Dichlorobenzene	00095-50-1	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	1,2-Dichloroethane	00107-06-2	2.37E-07	5.50E-08	7.50E-08	1.22E-07
1	1,2-Dichloropropane	00078-87-5	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
	1,2,4-Trimethylbenzene	95-63-6	5.35E-07	5.36E-07	2.04E-07	4.25E-07
	1,3-Butadiene	106-99-0	< 1.57E-08	< 1.17E-08	< 5.63E-09	< 1.10E-08
1	1,3-Dichlorobenzene	00541-73-1	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
	1,3,5-Trimethylbenzene	108-67-8	3.26E-07	1.73E-07	1.50E-07	2.16E-07
1	1,4-Dichlorobenzene	00106-46-7	4.33E-08	< 8.30E-08	< 4.00E-08	< 5.54E-08
	1,4-Diethylbenzene + n-Butylbenzene	105-05-5/104-51-8	< 7.79E-08	1.16E-07	5.87E-08	< 8.41E-08
1	1,4-Dioxane	00123-91-1	< 4.47E-07	< 3.32E-07	< 1.60E-07	< 3.13E-07
1	2-Butanone	00078-93-3	4.05E-07	2.39E-07	1.40E-07	2.61E-07
1	2-Hexanone	00591-78-6	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
	2-Methyl-1-butene	563-46-2	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
	2-Methyl-2-butene	513-35-9	7.17E-08	< 1.21E-08	2.01E-08	< 3.46E-08
	2-Methyl-2-pentene	625-27-4	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
	2-Methylheptane	592-27-8	2.65E-07	1.85E-07	3.27E-07	2.59E-07
	2-Methylhexane	591-76-4	2.74E-06	1.61E-06	8.64E-07	1.74E-06
	2-Methylpentane	107-83-5	3.17E-07	2.48E-07	2.62E-07	2.75E-07
	2,2-Dimethylbutane	75-83-2	< 1.67E-08	< 1.24E-08	2.45E-08	< 1.79E-08
	2,2-Dimethylpropane	463-82-1	< 1.68E-08	< 1.25E-08	< 6.01E-09	< 1.17E-08
	2,3-Dimethylpentane	565-59-3	9.97E-07	5.62E-07	3.28E-07	6.29E-07
	2,3,4-Trimethylpentane	565-75-3	< 1.66E-08	< 1.23E-08	9.06E-08	< 3.98E-08
	2,4-Dimethylhexane	589-43-5	7.21E-07	4.01E-07	2.51E-07	4.58E-07
	3-Methylhexane	589-34-4	6.15E-06	3.65E-06	1.91E-06	3.90E-06
	3-Methylpentane	96-14-0	2.75E-07	1.86E-07	2.32E-07	2.31E-07
	4-Methyl-1-pentene	691-37-2	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
1	4-Methyl-2-pentanone	00108-10-1	9.77E-07	6.23E-07	3.25E-07	6.42E-07
1	Acetone	00067-64-1	2.09E-06	1.14E-06	6.00E-07	1.28E-06
1	Acetonitrile	01722-09-4	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
	Acetylene	74-86-2	1.96E-07	1.01E-07	7.99E-08	1.26E-07
1	Acrolein	00107-02-8	< 2.23E-07	8.30E-08	< 8.00E-08	< 1.29E-07
1	Acrylonitrile	00107-13-1	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
1	Allyl Chloride	00107-05-1	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
	a-Pinene	7785-70-8	< 1.58E-08	< 1.18E-08	< 5.67E-09	< 1.11E-08
	Benzene	71-43-2	6.35E-08	5.00E-08	2.28E-08	4.54E-08
1	Benzyl Chloride	00100-44-7	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
1 2	bis(1-Methylethyl) Benzene		2.79E-06	0.00E+00	1.00E-06	1.26E-06
	b-Pinene	18172-67-3	1.98E-07	< 5.88E-08	3.12E-08	< 9.59E-08
1	Bromodichloromethane	00075-27-4	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Bromoform	00075-25-2	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Bromomethane	00074-83-9	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1 2	C9H10 Alkyl Substituted Benzene		8.37E-06	0.00E+00	0.00E+00	2.79E-06
1	Carbon Disulfide	00075-15-0	3.63E-06	2.49E-06	1.10E-06	2.41E-06
1	Carbon Tetrachloride	00056-23-5	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Chlorobenzene	00108-90-7	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Chlorodibromomethane	00124-48-1	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Chloroethane	00075-00-3	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Chloroform	00067-66-3	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Chloromethane	00074-87-3	3.21E-08	2.28E-08	1.05E-08	2.18E-08
1	cis-1,2-Dichloroethene	00156-59-2	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	cis-1,3-Dichloropropene	10061-01-5	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
	cis-2-Butene	590-18-1	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
	cis-2-Hexene	7688-21-3	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
	cis-2-Pentene	627-20-3	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08

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Table H.2 - 3 Calender 2
Speciated Volatiles

		CAS Numbers	Compound # 2 Run 1 lb/lb rubber	Run 2 lb/lb rubber	Run 3 lb/lb rubber	Average lb/lb rubber
	Cumene	98-82-8	8.53E-08	6.92E-08	3.47E-08	6.31E-08
	Cyclohexane	110-82-7	1.63E-07	4.97E-08	6.13E-08	9.13E-08
	Cyclopentane + 2,3-Dimethylbutane	287-92-3/79-29-8	1.36E-07	4.52E-08	5.85E-08	8.00E-08
	Cyclopentene	142-29-0	9.49E-08	7.65E-08	3.69E-08	6.94E-08
1	Dichlorodifluoromethane	00075-71-8	4.33E-08	2.70E-08	1.55E-08	2.86E-08
1 2	Dimethylpentane		1.40E-06	1.04E-06	5.00E-07	9.78E-07
	d-Limonene	5989-27-5	1.19E-07	< 5.88E-08	4.11E-08	< 7.28E-08
1	Epichlorohydrin	00106-89-8	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
	Ethane	74-84-0	2.36E-07	1.23E-07	8.76E-08	1.49E-07
1 2	Ethenylcyclohexene		4.19E-06	9.34E-06	3.00E-06	5.51E-06
	Ethylacetylene	107-00-6	5.65E-08	4.38E-08	3.90E-08	4.64E-08
	Ethylbenzene	100-41-4	1.62E-07	2.06E-07	1.02E-07	1.57E-07
	Ethylene	74-85-1	3.18E-07	1.70E-07	1.50E-07	2.12E-07
1 2	Ethylpentane		1.40E-06	9.34E-07	0.00E+00	7.76E-07
1 2	Heptane		1.26E-05	8.30E-06	4.50E-06	8.45E-06
1	Hexachlorobutadiene	00087-68-3	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
	Isobutane	75-28-5	8.43E-08	5.14E-08	3.17E-08	5.58E-08
	Isobutylene + 1-Butene	115-11-7/106-98-9	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
	Isooctane	540-84-1	4.23E-07	2.47E-07	1.37E-07	2.69E-07
	Isopentane	78-78-4	1.17E-06	5.36E-07	2.94E-07	6.68E-07
	Isoprene	78-79-5	< 1.58E-08	< 1.18E-08	< 5.67E-09	< 1.11E-08
	Methylacetylene	74-99-7	< 1.51E-08	< 1.12E-08	< 5.42E-09	< 1.06E-08
	Methylcyclohexane	108-87-2	1.22E-06	6.66E-07	8.03E-07	8.97E-07
	Methylcyclopentane	96-37-7	2.28E-07	1.21E-07	1.42E-07	1.64E-07
1	Methylene Chloride	00079-09-2	< 1.12E-07	< 8.30E-08	4.40E-08	< 7.96E-08
1 2	Methylethenylbenzene		0.00E+00	5.19E-06	3.00E-06	2.73E-06
1 2	Methylhexane		1.40E-05	9.34E-06	4.50E-06	9.27E-06
1 2	Methylhexanone		2.79E-06	2.08E-06	1.00E-06	1.96E-06
	m-Ethyltoluene	620-14-4	1.86E-07	1.56E-07	9.45E-08	1.45E-07
	m-Xylene + p-Xylene	108-38-3/106-42-3	4.24E-07	2.29E-07	2.04E-07	2.86E-07
	n-Butane	106-97-8	4.64E-08	1.88E-08	6.65E-09	2.40E-08
	n-Decane	124-18-5	6.19E-07	4.55E-07	2.86E-07	4.53E-07
	n-Heptane	142-82-5	7.98E-06	4.63E-06	2.59E-06	5.07E-06
	n-Hexane	110-54-3	7.59E-07	4.71E-07	4.48E-07	5.59E-07
	n-Nonane	111-84-2	4.47E-07	2.65E-07	2.85E-07	3.32E-07
	n-Octane	111-65-9	2.82E-07	1.17E-07	3.27E-07	2.42E-07
	n-Pentane	109-66-0	6.87E-08	< 1.25E-08	2.12E-08	< 3.41E-08
	n-Propylbenzene	103-65-1	6.20E-08	4.21E-08	1.01E-08	3.81E-08
1 2	Octane		0.00E+00	0.00E+00	1.00E-06	3.33E-07
	o-Ethyltoluene	611-14-3	3.95E-06	2.42E-06	1.38E-06	2.58E-06
	o-Xylene	95-47-6	3.85E-07	2.64E-07	2.04E-07	2.84E-07
	p-Cymene	99-87-6	< 7.79E-08	< 5.79E-08	3.07E-08	< 5.55E-08
	p-Ethyltoluene	622-96-8	1.01E-07	8.07E-08	< 5.56E-09	< 6.23E-08
	Propane	74-98-6	4.27E-06	2.47E-06	1.90E-06	2.88E-06
	Propylene	115-07-1	1.30E-07	3.94E-08	4.96E-08	7.31E-08
1	Propylene Oxide	00075-56-9	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
	Styrene	100-42-5	9.82E-07	2.36E-07	2.40E-07	4.86E-07
1	t-Butyl Methyl Ether	01634-04-4	< 2.23E-07	< 1.66E-07	< 8.00E-08	< 1.56E-07
1	Tetrachloroethene	00127-18-4	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
	Toluene	108-88-3	3.13E-06	6.25E-06	2.37E-06	3.92E-06
1	trans-1,2-Dichloroethene	00156-60-5	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	trans-1,2-Dichloropropene	10061-01-5	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
	trans-2-Butene	624-64-6	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
	trans-2-Hexene	4050-45-7	4.48E-08	3.57E-08	1.63E-08	3.23E-08
	trans-2-Pentene	646-04-8	< 1.63E-08	< 1.21E-08	< 5.84E-09	< 1.14E-08
1	Trichloroethene	00079-01-6	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Trichlorofluoromethane	00075-69-4	1.53E-07	< 8.30E-08	3.75E-08	< 9.13E-08
1	Trichlortrifluoroethane	00076-13-1	8.65E-08	< 8.30E-08	< 4.00E-08	< 6.99E-08
1 2	Undecane	693-67-4	0.00E+00	2.08E-06	0.00E+00	6.92E-07
1	Vinyl Acetate	00108-05-4	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
1	Vinyl Chloride	00075-01-4	< 1.12E-07	< 8.30E-08	< 4.00E-08	< 7.82E-08
	Total detected		9.76E-05	7.21E-05	3.86E-05	6.89E-05
	Total with non-detects		< 1.04E-04	< 7.69E-05	< 4.07E-05	< 7.38E-05

1 - Results from Method TO-14, 2 - Tentatively Identified Compound

TRC

Table H.2 - 4 Calender 2
Sulfur Summary

	CAS #	Compound # 2							
		Run 1 µg/m³		Run 2 µg/m³		Run 3 µg/m³		Average µg/m³	
Carbonyl Sulfide	463-58-1	<	9.80	<	9.80	<	9.8	<	9.8
Methyl Mercaptan	74-93-1	<	7.90	<	7.90	<	7.90	<	7.9
Ethyl Mercaptan	75-08-1	<	10.0	<	10.0	<	10.0	<	10
Dimethyl Sulfide	75-18-3	<	10.0	<	10.0	<	10.0	<	10
Carbon Disulfide	75-15-0		167		152		135		151
Isopropyl Mercaptan	75-33-2	<	12.0	<	12.0	<	12.0	<	12
tert-Butyl Mercaptan	75-66-1	<	15.0	<	15.0	<	15.0	<	15
n-Propyl Mercaptan	107-03-9	<	12.0	<	12.0	<	12.0	<	12
Ethyl Methyl Sulfide	624-89-5	<	12.0	<	12.0	<	12.0	<	12
Thiophene	110-02-1	<	14.0	<	14.0	<	14.0	<	14
Isobutyl Mercaptan	513-44-0	<	15.0	<	15.0	<	15.0	<	15
Diethyl Sulfide	352-93-2	<	15.0	<	15.0	<	15.0	<	15
n-Butyl Mercaptan	109-79-5	<	15.0	<	15.0	<	15.0	<	15
Dimethyl Disulfide	624-92-0	<	7.70	<	7.70	<	7.70	<	7.7
3-Methylthiophene	616-44-4	<	16.0	<	16.0	<	16.0	<	16
Tetrahydrothiophene	110-01-0	<	14.0	<	14.0	<	14.0	<	14
2-Ethylthiophene	872-55-9	<	18.0	<	18.0	<	18.0	<	18
2,5-Dimethylthiophene	638-02-8	<	18.0	<	18.0	<	18.0	<	18
Diethyl Disulfide	110-81-6	<	10.0	<	10.0	<	10.0	<	10
TOTAL Detected			167		152		135		151
TOTAL with non-detects		<	398.4	<	383.4	<	366.4	<	382.73333

TRC

Table H.2 - 4 Calender 2
Sulfur Summary

	CAS #	Compound # 2			
		Run 1 lb/hr	Run 2 lb/hr	Run 3 lb/hr	Average lb/hr
Carbonyl Sulfide	463-58-1	< 4.65E-04	< 4.48E-04	< 4.65E-04	< 4.59E-04
Methyl Mercaptan	74-93-1	< 3.75E-04	< 3.61E-04	< 3.75E-04	< 3.70E-04
Ethyl Mercaptan	75-08-1	< 4.74E-04	< 4.57E-04	< 4.74E-04	< 4.69E-04
Dimethyl Sulfide	75-18-3	< 4.74E-04	< 4.57E-04	< 4.74E-04	< 4.69E-04
Carbon Disulfide	75-15-0	7.92E-03	6.95E-03	6.40E-03	7.09E-03
Isopropyl Mercaptan	75-33-2	< 5.69E-04	< 5.48E-04	< 5.69E-04	< 5.62E-04
tert-Butyl Mercaptan	75-66-1	< 7.12E-04	< 6.86E-04	< 7.12E-04	< 7.03E-04
n-Propyl Mercaptan	107-03-9	< 5.69E-04	< 5.48E-04	< 5.69E-04	< 5.62E-04
Ethyl Methyl Sulfide	624-89-5	< 5.69E-04	< 5.48E-04	< 5.69E-04	< 5.62E-04
Thiophene	110-02-1	< 6.64E-04	< 6.40E-04	< 6.64E-04	< 6.56E-04
Isobutyl Mercaptan	513-44-0	< 7.12E-04	< 6.86E-04	< 7.12E-04	< 7.03E-04
Diethyl Sulfide	352-93-2	< 7.12E-04	< 6.86E-04	< 7.12E-04	< 7.03E-04
n-Butyl Mercaptan	109-79-5	< 7.12E-04	< 6.86E-04	< 7.12E-04	< 7.03E-04
Dimethyl Disulfide	624-92-0	< 3.65E-04	< 3.52E-04	< 3.65E-04	< 3.61E-04
3-Methylthiophene	616-44-4	< 7.59E-04	< 7.31E-04	< 7.59E-04	< 7.50E-04
Tetrahydrothiophene	110-01-0	< 6.64E-04	< 6.40E-04	< 6.64E-04	< 6.56E-04
2-Ethylthiophene	872-55-9	< 8.54E-04	< 8.23E-04	< 8.54E-04	< 8.44E-04
2,5-Dimethylthiophene	638-02-8	< 8.54E-04	< 8.23E-04	< 8.54E-04	< 8.44E-04
Diethyl Disulfide	110-81-6	< 4.74E-04	< 4.57E-04	< 4.74E-04	< 4.69E-04
TOTAL Detected		7.92E-03	6.95E-03	6.40E-03	7.09E-03
TOTAL with non-detects		< 1.89E-02	< 1.75E-02	< 1.74E-02	< 1.79E-02

TRC

Table H.2 - 4 Calender 2
Sulfur Summary

	CAS #	Compound # 2							
		Run 1 lb/lb rubber		Run 2 lb/lb rubber		Run 3 lb/lb rubber		Average lb/lb rubber	
Carbonyl Sulfide	463-58-1	<	1.37E-07	<	1.02E-07	<	4.90E-08	<	9.58E-08
Methyl Mercaptan	74-93-1	<	1.10E-07	<	8.20E-08	<	3.95E-08	<	7.72E-08
Ethyl Mercaptan	75-08-1	<	1.40E-07	<	1.04E-07	<	5.00E-08	<	9.78E-08
Dimethyl Sulfide	75-18-3	<	1.40E-07	<	1.04E-07	<	5.00E-08	<	9.78E-08
Carbon Disulfide	75-15-0		2.33E-06		1.58E-06		6.75E-07		1.53E-06
Isopropyl Mercaptan	75-33-2	<	1.67E-07	<	1.25E-07	<	6.00E-08	<	1.17E-07
tert-Butyl Mercaptan	75-66-1	<	2.09E-07	<	1.56E-07	<	7.50E-08	<	1.47E-07
n-Propyl Mercaptan	107-03-9	<	1.67E-07	<	1.25E-07	<	6.00E-08	<	1.17E-07
Ethyl Methyl Sulfide	624-89-5	<	1.67E-07	<	1.25E-07	<	6.00E-08	<	1.17E-07
Thiophene	110-02-1	<	1.95E-07	<	1.45E-07	<	7.00E-08	<	1.37E-07
Isobutyl Mercaptan	513-44-0	<	2.09E-07	<	1.56E-07	<	7.50E-08	<	1.47E-07
Diethyl Sulfide	352-93-2	<	2.09E-07	<	1.56E-07	<	7.50E-08	<	1.47E-07
n-Butyl Mercaptan	109-79-5	<	2.09E-07	<	1.56E-07	<	7.50E-08	<	1.47E-07
Dimethyl Disulfide	624-92-0	<	1.07E-07	<	7.99E-08	<	3.85E-08	<	7.53E-08
3-Methylthiophene	616-44-4	<	2.23E-07	<	1.66E-07	<	8.00E-08	<	1.56E-07
Tetrahydrothiophene	110-01-0	<	1.95E-07	<	1.45E-07	<	7.00E-08	<	1.37E-07
2-Ethylthiophene	872-55-9	<	2.51E-07	<	1.87E-07	<	9.00E-08	<	1.76E-07
2,5-Dimethylthiophene	638-02-8	<	2.51E-07	<	1.87E-07	<	9.00E-08	<	1.76E-07
Diethyl Disulfide	110-81-6	<	1.40E-07	<	1.04E-07	<	5.00E-08	<	9.78E-08
TOTAL Detected			2.33E-06		1.58E-06		6.75E-07		1.53E-06
TOTAL with non-detects		<	5.56E-06	<	3.98E-06	<	1.83E-06	<	3.79E-06

TRC

Table H.2 - 5 Calender 2
POM Train Results

	Compound #2			
	Run 1	**Run2**	**Run 3**	**Average**
POM (mg)*	6.3	10.9	1.1	6.1
Sample Volume (dscf)	124.322	129.517	125.075	126.3
POM Concentration (mg/m^3)	1.79	2.97	0.31	1.69
Flowrate (dscfm)	12291	12742	12274	12435.7
POM (lb/hr)	8.24E-02	1.42E-01	1.43E-02	7.95E-02
Run Time (min)	144.0	144.0	144.0	144.0
Total Rubber Processed (lbs/hr)	3399.9	4403.8	9484.1	5762.6
POM (lb/lb rubber)	2.42E-05	3.22E-05	1.51E-06	1.93E-05

* Blank Corrected.

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SECTION I

EXTRUSION

Section I

Extrusion

Table Number	Title	No. of Pages
I.1-1	Extruder Summary Table of Totals	1
I.1-2	Extruder SBR Locations A & B, Speciated Semivolatiles	3
I.1-3	Extruder SBR Location A, Speciated Semivolatiles	3
I.1-4	Extruder SBR Location B, Speciated Semivolatiles	3
I.1-5	Extruder Sidewall Locations A & B, Speciated Semivolatiles	3
I.1-6	Extruder Sidewall Location A, Speciated Semivolatiles	3
I.1-7	Extruder Sidewall Location B, Speciated Semivolatiles	3
I.1-8	Extruder EPDM Locations A & B, Speciated Semivolatiles	3
I.1-9	Extruder EPDM Location A, Speciated Semivolatiles	3
I.1-10	Extruder EPDM Location B, Speciated Semivolatiles	3
I.1-11	Extruder Tread Locations A & B, Speciated Semivolatiles	3
I.1-12	Extruder Tread Location A, Speciated Semivolatiles	3
I.1-13	Extruder Tread Location B, Speciated Semivolatiles	3
I.1-14	Extruder SBR Locations A & B, Speciated Volatiles	3
I.1-15	Extruder SBR Location A, Speciated Volatiles	3
I.1-16	Extruder SBR Location B, Speciated Volatiles	3
I.1-17	Extruder Sidewall Locations A & B, Speciated Volatiles	3
I.1-18	Extruder Sidewall Location A, Speciated Volatiles	3
I.1-19	Extruder Sidewall Location B, Speciated Volatiles	3
I.1-20	Extruder EPDM Locations A & B, Speciated Volatiles	3
I.1-21	Extruder EPDM Location A, Speciated Volatiles	3
I.1-22	Extruder EPDM Location B, Speciated Volatiles	3
I.1-23	Extruder Tread Locations A & B, Speciated Volatiles	3
I.1-24	Extruder Tread Location A, Speciated Volatiles	3
I.1-25	Extruder Tread Location B, Speciated Volatiles	3
I.1-26	Extruder SBR Locations A & B, POM	1
I.1-27	Extruder Sidewall Locations A & B, POM	1
I.1-28	Extruder EPDM Locations A & B, POM	1
I.1-29	Extruder Tread Locations A & B, POM	1
I.1-30	Extruder SBR Locations A & B, Sulfur	2
I.1-31	Extruder SBR Location A, Sulfur	2
I.1-32	Extruder SBR Location B, Sulfur	2

TRC

Section I

Extrusion (continued)

Table Number	Title	No. of Pages
I.1-33	Extruder Sidewall Locations A & B, Sulfur	2
I.1-34	Extruder Sidewall Location A, Sulfur	2
I.1-35	Extruder Sidewall Location B, Sulfur	2
I.1-36	Extruder EPDM Locations A & B, Sulfur	2
I.1-37	Extruder EPDM Location A, Sulfur	2
I.1-38	Extruder EPDM Location B, Sulfur	2
I.1-39	Extruder Tread Locations A & B, Sulfur	2
I.1-40	Extruder Tread Location A, Sulfur	2
I.1-41	Extruder Tread Location B, Sulfur	2
I.1-42	Extruder Location A, Particulate Matter	1
I.1-43	Extruder SBR Location A, Metals	1
I.1-44	Extruder Sidewall Location A, Metals	1
I.1-45	Extruder EPDM Location A, Metals	1
I.1-46	Extruder Tread Location A, Metals	1

Table L1-1
Extruder Summary Table of Totals

	Emulsion SBR 1502 Compound 22				Tire Base/Sidewall Compound 4				EPDM 2 (Peroxide Cure) Compound 9				Tire TREAD Compound 6			
	Run 1	Run 2	Run 3	Avg	Run 1	Run 2	Run 3	Avg	Run 1	Run 2	Run 3	Avg	Run 1	Run 2	Run 3	Avg
Total VOC (ppm)	2.70	2.70	3.70	3.03	1.50	1.60	0.40	1.17	2.80	3.70	2.80	3.10	1.40	6.60	0.80	2.93
Total VOC (lbs/hr)	6.29E-03	5.13E-03	7.84E-03	6.42E-03	3.22E-03	3.16E-03	6.70E-04	2.35E-03	5.73E-03	7.27E-03	5.31E-03	6.10E-03	2.63E-03	1.32E-02	1.52E-03	5.78E-03
Total VOC (lbs/lb rubber)	1.02E-05	1.05E-05	1.64E-05	1.24E-05	1.19E-05	1.07E-05	2.45E-06	8.35E-06	1.58E-05	2.00E-05	1.60E-05	1.73E-05	7.74E-06	4.05E-05	4.47E-06	1.76E-05
Total VOC (lbs/ft³ rubber)	1.08E-05	1.05E-05	1.72E-05	1.28E-05	6.60E-06	6.48E-06	1.37E-06	4.82E-06	6.78E-06	9.00E-06	6.00E-06	7.26E-06	3.44E-06	1.63E-05	2.09E-06	7.28E-06
Total VOC (std dev lb/lb rubber)	4.11E-06	3.97E-06	5.10E-06	4.39E-06	3.37E-06	4.10E-06	1.01E-06	2.83E-06	7.80E-06	7.10E-06	7.56E-06	7.49E-06	2.89E-06	1.32E-05	3.31E-06	6.47E-06
Total VOC (std dev lbs/ft³ rubber)	4.39E-06	3.97E-06	5.23E-06	4.53E-06	1.86E-06	2.48E-06	5.65E-07	1.64E-06	3.55E-06	3.10E-06	2.92E-06	3.19E-06	1.46E-06	5.18E-06	1.57E-06	2.74E-06
Total Speciated Semivolatiles (µg/m³)	-	238.4	252.3	245.4	241.46	567.33	749.12	519.30	3041.75	1907.06	1153.87	2034.23	2129.9	6900.0	2043.4	3691.10
Total Speciated Semivolatiles (lbs/hr)	-	4.58E-04	4.48E-04	4.53E-04	3.97E-04	9.32E-04	1.31E-03	8.80E-04	4.73E-03	3.39E-03	2.12E-03	3.41E-03	4.94E-03	1.47E-02	2.41E-04	6.63E-03
Total Speciated Semivolatiles (lbs/lb rubber)	-	9.38E-07	9.24E-07	9.31E-07	1.47E-06	3.17E-06	4.79E-06	3.14E-06	1.58E-05	9.39E-06	6.13E-06	1.04E-05	1.50E-05	4.46E-05	6.04E-06	2.19E-05
Total Speciated Semivolatiles with non-detects (lbs/lb rubber)	-	< 2.23E-06	<2.34E-06	< 2.29E-06	< 4.83E-06	< 5.99E-06	<8.40E-06	< 6.41E-06	< 1.81E-05	< 1.25E-05	<7.67E-06	< 1.28E-05	< 1.50E-05	< 4.49E-05	<6.35E-06	< 2.21E-05
Total Speciated Semivolatiles (lbs/ft³ rubber)	-	9.39E-07	9.87E-07	9.63E-07	8.14E-07	1.91E-06	4.27E-06	2.33E-06	5.46E-06	4.17E-06	5.76E-07	3.40E-06	6.47E-06	1.81E-05	5.88E-06	1.02E-05
Total Speciated Volatiles (µg/m³)	1155.0	2225.0	5447.1	2942.4	2614.7	1507.7	1732.2	1951.5	5217.0	2197.7	2517.4	3310.7	5668.7	11935.0	10385.5	9329.7
Total Speciated Volatiles (lbs/hr)	2.65E-03	4.80E-03	1.24E-02	6.62E-03	5.18E-03	3.03E-03	3.49E-03	3.90E-03	1.09E-02	4.52E-03	4.64E-03	6.69E-03	1.18E-02	2.51E-02	2.16E-02	1.95E-02
Total Speciated Volatiles (lbs/lb rubber)	4.68E-06	9.84E-06	2.62E-05	1.36E-05	1.92E-05	1.03E-05	1.28E-05	1.41E-05	2.99E-05	1.25E-05	1.36E-05	1.87E-05	3.59E-05	7.64E-05	6.44E-05	5.89E-05
Total Speciated Volatiles with non-detects (lbs/lb rubber)	< 1.11E-05	< 1.41E-05	< 3.01E-05	< 1.84E-05	< 2.60E-05	< 1.64E-05	<1.95E-05	< 2.06E-05	< 3.39E-05	< 1.73E-05	<1.95E-05	< 2.36E-05	< 4.07E-05	< 8.15E-05	<6.97E-05	< 6.40E-05
Total Speciated Volatiles (lbs/ft³ rubber)	4.71E-06	9.85E-06	2.80E-05	1.42E-05	1.06E-05	6.21E-06	7.15E-06	7.99E-06	1.26E-05	5.56E-06	5.19E-06	7.78E-06	1.55E-05	3.09E-05	6.43E-05	3.69E-05
Total POM (mg)	12.9	6.9	6.8	8.9	1.5	0.0	1.8	1.1	4.2	7.1	11.7	7.7	2.2	5.1	7.5	4.9
Total POM (lbs/hr)	2.42E-02	1.41E-02	1.46E-02	1.76E-02	3.99E-03	0.0	4.36E-03	2.78E-03	8.92E-03	1.52E-02	2.56E-02	1.66E-02	4.55E-03	7.13E-03	9.72E-03	7.14E-03
Total POM (lbs/lb rubber)	4.03E-05	2.89E-05	3.02E-05	3.31E-05	1.48E-05	0.0	1.60E-05	1.02E-03	2.44E-05	4.22E-05	7.51E-05	4.72E-05	1.38E-05	2.17E-05	2.90E-05	2.15E-05
Total POM (lbs/ft³ rubber)	4.30E-05	2.89E-05	3.22E-05	3.47E-05	8.18E-06	0.0	8.94E-06	5.70E-06	1.03E-05	1.87E-05	2.87E-05	1.92E-05	5.96E-06	8.78E-06	1.39E-05	9.55E-06
Total Sulfur (µg/m³)	0.0	20.3	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	13.5
Total Sulfur (lbs/hr)	0.0	4.19E-05	0.0	1.40E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.33E-05	2.78E-05
Total Sulfur Detected (lbs/lb rubber)	0.0	8.58E-08	0.0	2.86E-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.49E-07	8.30E-08
Total Sulfur with non-detects (lbs/lb rubber)	< 1.87E-06	< 2.43E-06	< 2.17E-06	< 2.16E-06	< 3.29E-06	< 3.49E-06	< 3.38E-06	< 3.39E-06	< 2.66E-06	< 2.66E-06	< 2.72E-06	< 2.68E-06	< 9.27E-06	< 5.72E-06	< 3.07E-06	< 6.02E-06
Total Sulfur (lbs/ft³ rubber)	0.0	8.59E-08	0.0	2.86E-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.19E-07	3.97E-08
Total Particulate (mg)	4.7	9.9	1.8	5.5	7.2	0.5	0.0	2.6	2.5	0.0	0.0	0.8	0.0	1.2	0.0	0.4
Total Particulate (lbs/hr)	1.18E-02	2.48E-02	4.51E-03	1.37E-02	1.82E-02	1.13E-03	0.0	6.44E-03	6.31E-03	0.0	0.0	2.10E-03	0.0	1.27E-03	0.0	4.22E-04
Total Particulate (lbs/lb rubber)	1.97E-05	5.08E-05	9.31E-06	2.66E-05	6.75E-05	3.85E-06	0.0	2.38E-05	1.73E-05	0.0	0.0	5.75E-06	0.0	3.84E-06	0.0	1.28E-06
Total Particulate (lbs/ft³ rubber)	2.10E-05	5.09E-05	9.95E-06	2.73E-05	3.73E-05	2.32E-06	0.0	1.32E-05	7.28E-06	0.0	0.0	2.43E-06	0.0	1.56E-06	0.0	5.19E-07
Total Metals (µg)	191.8	549.0	146.2	295.7	170.5	149.3	46.8	122.2	94.4	55.2	19.6	56.4	44.6	41.6	32.1	39.5
Total Metals (lbs/hr)	4.78E-04	1.37E-03	3.82E-04	7.43E-04	4.13E-04	3.75E-04	1.17E-04	3.02E-04	2.38E-04	1.43E-04	4.96E-05	1.43E-04	1.11E-04	4.53E-05	3.54E-05	6.40E-05
Total Metals (lbs/lb rubber)	7.97E-07	2.81E-06	7.89E-07	1.47E-06	1.60E-06	1.28E-06	4.28E-07	1.10E-06	6.49E-07	3.98E-07	1.46E-07	3.97E-05	3.38E-07	1.38E-07	1.06E-07	1.94E-07
Total Metals (lbs/ft³ rubber)	8.50E-07	2.82E-06	8.43E-07	1.50E-06	8.84E-07	7.70E-07	2.40E-07	6.31E-07	2.74E-07	1.76E-07	5.55E-08	1.69E-07	1.46E-07	5.58E-08	5.06E-08	8.41E-08

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Table L1-2

Extruder SBR Locations A and B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average (of Runs 2 and 3) Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine		-	-	-	-	< 5.3	< 1.02E-05	< 2.10E-08	< 2.10E-08	< 5.6	< 9.84E-06	< 2.03E-08	< 2.17E-08	< 5.4	< 1.00E-05	< 2.06E-08	< 2.13E-08
Cumene	98-82-8	-	-	-	-	12.5	2.43E-05	4.98E-08	4.98E-08	6.0	1.07E-05	2.20E-08	2.35E-08	9.3	1.75E-05	3.59E-08	3.67E-08
Aniline	62-53-3	-	-	-	-	48.1	9.13E-05	1.87E-07	1.87E-07	69.5	1.23E-04	2.55E-07	2.72E-07	58.8	1.07E-04	2.21E-07	2.30E-07
Benzyl Chloride	100-44-7	-	-	-	-	< 1.2	< 2.41E-06	< 4.94E-09	< 4.94E-09	< 1.3	< 2.33E-06	< 4.80E-09	< 5.13E-09	< 1.3	< 2.37E-06	< 4.87E-09	< 5.04E-09
Acetophenone	98-86-2	-	-	-	-	3.6	6.88E-06	1.41E-08	1.41E-08	5.0	8.82E-06	1.82E-08	1.94E-08	4.3	7.85E-06	1.61E-08	1.68E-08
n-Nitrosomorpholine		-	-	-	-	< 3.7	< 7.08E-06	< 1.45E-08	< 1.45E-08	< 3.9	< 6.81E-06	< 1.41E-08	< 1.50E-08	< 3.8	< 6.95E-06	< 1.43E-08	< 1.48E-08
o-Toluidine	95-53-4	-	-	-	-	< 1.7	< 3.29E-06	< 6.74E-09	< 6.75E-09	< 1.8	< 3.16E-06	< 6.53E-09	< 6.97E-09	< 1.7	< 3.23E-06	< 6.63E-09	< 6.86E-09
1,2-Dibromo-3-chloropropane	96-12-8	-	-	-	-	< 4.7	< 9.07E-06	< 1.86E-08	< 1.86E-08	< 4.9	< 8.74E-06	< 1.80E-08	< 1.93E-08	< 4.8	< 8.90E-06	< 1.83E-08	< 1.89E-08
N,N-Diethylaniline	91-66-7	-	-	-	-	< 1.6	< 3.02E-06	< 6.19E-09	< 6.20E-09	< 1.6	< 2.90E-06	< 5.98E-09	< 6.38E-09	< 1.6	< 2.96E-06	< 6.08E-09	< 6.29E-09
N,N-Dimethylaniline	121-69-7	-	-	-	-	< 1.5	< 2.94E-06	< 6.03E-09	< 6.04E-09	< 1.6	< 2.76E-06	< 5.70E-09	< 6.09E-09	< 1.5	< 2.85E-06	< 5.87E-09	< 6.06E-09
o-Anisidine	104-94-9	-	-	-	-	< 3.0	< 5.87E-06	< 1.20E-08	< 1.20E-08	< 3.1	< 5.48E-06	< 1.13E-08	< 1.21E-08	< 3.1	< 5.68E-06	< 1.17E-08	< 1.21E-08
1,4-Phenylenediamine		-	-	-	-	< 7.9	< 1.53E-05	< 3.14E-08	< 3.15E-08	< 8.1	< 1.44E-05	< 2.97E-08	< 3.18E-08	< 8.0	< 1.49E-05	< 3.06E-08	< 3.16E-08
a,a,a-Trichlorotoluene		-	-	-	-	< 1.8	< 3.46E-06	< 7.09E-09	< 7.09E-09	< 1.8	< 3.23E-06	< 6.67E-09	< 7.13E-09	< 1.8	< 3.35E-06	< 6.88E-09	< 7.11E-09
Hydroquinone	123-31-9	-	-	-	-	< 4.4	< 8.47E-06	< 1.74E-08	< 1.74E-08	< 4.5	< 7.94E-06	< 1.64E-08	< 1.75E-08	< 4.4	< 8.21E-06	< 1.69E-08	< 1.74E-08
2-Chloroacetophenone	532-27-4	-	-	-	-	0.6	1.22E-06	2.50E-09	2.50E-09	1.3	2.38E-06	4.90E-09	5.24E-09	1.0	1.80E-06	3.70E-09	3.87E-09
Biphenyl	92-52-4	-	-	-	-	1.1	2.14E-06	4.38E-09	4.38E-09	1.2	2.16E-06	4.46E-09	4.77E-09	1.2	2.15E-06	4.42E-09	4.57E-09
Trifluralin	1582-09-8	-	-	-	-	< 5.0	< 9.73E-06	< 1.99E-08	< 2.00E-08	< 5.2	< 9.20E-06	< 1.90E-08	< 2.03E-08	< 5.1	< 9.47E-06	< 1.95E-08	< 2.01E-08
4-Aminobiphenyl	90-41-5	-	-	-	-	< 1.7	< 3.20E-06	< 6.56E-09	< 6.57E-09	< 1.8	< 3.15E-06	< 6.50E-09	< 6.95E-09	< 1.7	< 3.18E-06	< 6.53E-09	< 6.76E-09
Pentachloronitrobenzene	82-68-8	-	-	-	-	< 10.4	< 2.01E-05	< 4.12E-08	< 4.13E-08	< 11.2	< 1.98E-05	< 4.08E-08	< 4.36E-08	< 10.8	< 1.99E-05	< 4.10E-08	< 4.24E-08
4-Nitrobiphenyl	92-93-3	-	-	-	-	< 3.4	< 6.63E-06	< 1.36E-08	< 1.36E-08	< 3.7	< 6.51E-06	< 1.34E-08	< 1.43E-08	< 3.6	< 6.57E-06	< 1.35E-08	< 1.40E-08
Benzidine	92-87-5	-	-	-	-	< 4.1	< 7.89E-06	< 1.62E-08	< 1.62E-08	< 4.9	< 8.72E-06	< 1.80E-08	< 1.92E-08	< 4.5	< 8.31E-06	< 1.71E-08	< 1.77E-08
4,4'-Methylenedianiline	107-77-9	-	-	-	-	< 7.4	< 1.42E-05	< 2.91E-08	< 2.91E-08	< 8.9	< 1.57E-05	< 3.24E-08	< 3.46E-08	< 8.1	< 1.50E-05	< 3.08E-08	< 3.19E-08
Dimethylaminoazobenzene	60-11-7	-	-	-	-	< 4.7	< 9.06E-06	< 1.86E-08	< 1.86E-08	< 5.7	< 1.00E-05	< 2.07E-08	< 2.21E-08	< 5.2	< 9.54E-06	< 1.96E-08	< 2.03E-08
3,3'-Dimethylbenzidine	119-93-7	-	-	-	-	< 3.5	< 6.70E-06	< 1.37E-08	< 1.37E-08	< 4.2	< 7.40E-06	< 1.53E-08	< 1.63E-08	< 3.8	< 7.05E-06	< 1.45E-08	< 1.50E-08
3,3'-Dimethoxybenzidine	119-90-4	-	-	-	-	< 10.0	< 1.94E-05	< 3.97E-08	< 3.97E-08	< 12.1	< 2.14E-05	< 4.41E-08	< 4.71E-08	< 11.1	< 2.04E-05	< 4.19E-08	< 4.34E-08
Methylene bis-chloroaniline	101-14-4	-	-	-	-	< 11.2	< 2.16E-05	< 4.43E-08	< 4.43E-08	< 13.5	< 2.38E-05	< 4.92E-08	< 5.26E-08	< 12.3	< 2.27E-05	< 4.68E-08	< 4.85E-08
3-Furaldehyde		-	-	-	-	< 4.6	< 8.92E-06	< 1.83E-08	< 1.83E-08	< 4.9	< 8.61E-06	< 1.78E-08	< 1.90E-08	< 4.7	< 8.77E-06	< 1.80E-08	< 1.86E-08
2-Furaldehyde		-	-	-	-	0.8	1.47E-06	3.00E-09	3.01E-09	1.3	2.36E-06	4.87E-09	5.20E-09	1.1	1.91E-06	3.94E-09	4.10E-09
Cyclohexylamine	108-91-8	-	-	-	-	0.1	2.32E-07	4.75E-10	4.75E-10	< 9.2	< 1.63E-05	< 3.36E-08	< 3.58E-08	< 4.7	< 8.25E-06	< 1.70E-08	< 1.82E-08
N-Nitrosodiethylamine		-	-	-	-	< 5.3	< 1.02E-05	< 2.09E-08	< 2.09E-08	< 5.5	< 9.81E-06	< 2.03E-08	< 2.16E-08	< 5.4	< 1.00E-05	< 2.06E-08	< 2.13E-08
Cyclohexanone	108-94-1	-	-	-	-	3.1	5.90E-06	1.21E-08	1.21E-08	< 3.2	< 5.69E-06	< 1.18E-08	< 1.26E-08	< 3.2	< 5.80E-06	< 1.19E-08	< 1.23E-08
1,3-Cyclooctadiene	29965-97-7	-	-	-	-	< 2.6	< 5.10E-06	< 1.05E-08	< 1.05E-08	< 2.8	< 4.92E-06	< 1.01E-08	< 1.08E-08	< 2.7	< 5.01E-06	< 1.03E-08	< 1.07E-08
1,5-Cyclooctadiene		-	-	-	-	< 5.8	< 1.11E-05	< 2.28E-08	< 2.29E-08	< 6.1	< 1.07E-05	< 2.21E-08	< 2.36E-08	< 5.9	< 1.09E-05	< 2.25E-08	< 2.32E-08
Camphene	79-92-5	-	-	-	-	< 3.0	< 5.82E-06	< 1.19E-08	< 1.19E-08	< 3.2	< 5.59E-06	< 1.15E-08	< 1.23E-08	< 3.1	< 5.70E-06	< 1.17E-08	< 1.21E-08
Benzaldehyde	100-52-7	-	-	-	-	6.3	1.21E-05	2.49E-08	2.49E-08	12.7	2.25E-05	4.65E-08	4.96E-08	9.5	1.73E-05	3.57E-08	3.73E-08
Benzonitrile	100-47-0	-	-	-	-	1.9	3.51E-06	7.20E-09	7.21E-09	3.0	5.34E-06	1.10E-08	1.18E-08	2.4	4.42E-06	9.11E-09	9.49E-09

TRC

Table L1-2

Extruder SBR Locations A and B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average (of Runs 2 and 3) Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Isooctanol		-	-	-	-	< 10.1	< 1.96E-05	< 4.02E-08	< 4.02E-08	< 10.7	< 1.89E-05	< 3.90E-08	< 4.16E-08	< 10.4	< 1.92E-05	< 3.96E-08	< 4.09E-08
1,2,4-Trimethylbenzene	95-63-6	-	-	-	-	12.6	2.40E-05	4.92E-08	4.93E-08	15.2	2.70E-05	5.57E-08	5.95E-08	13.9	2.55E-05	5.25E-08	5.44E-08
3-Methylstyrene	98-83-9	-	-	-	-	< 1.7	< 3.37E-06	< 6.91E-09	< 6.91E-09	< 1.8	< 3.24E-06	< 6.70E-09	< 7.15E-09	< 1.8	< 3.31E-06	< 6.80E-09	< 7.03E-09
4-Methylstyrene		-	-	-	-	< 1.8	< 3.57E-06	< 7.32E-09	< 7.33E-09	< 1.9	< 3.45E-06	< 7.12E-09	< 7.60E-09	< 1.9	< 3.51E-06	< 7.22E-09	< 7.47E-09
4-Chlorostyrene	1331-28-8	-	-	-	-	< 2.1	< 4.04E-06	< 8.28E-09	< 8.29E-09	< 2.2	< 3.88E-06	< 8.00E-09	< 8.55E-09	< 2.1	< 3.96E-06	< 8.14E-09	< 8.42E-09
1-Dodecene	6842-15-5	-	-	-	-	< 11.2	< 2.16E-05	< 4.42E-08	< 4.43E-08	< 11.5	< 2.03E-05	< 4.18E-08	< 4.47E-08	< 11.3	< 2.09E-05	< 4.30E-08	< 4.45E-08
Phthalimide	85-41-6	-	-	-	-	< 4.6	< 8.83E-06	< 1.81E-08	< 1.81E-08	< 4.7	< 8.35E-06	< 1.72E-08	< 1.84E-08	< 4.6	< 8.59E-06	< 1.77E-08	< 1.83E-08
Diphenylamine		-	-	-	-	2.3	4.47E-06	9.15E-09	9.16E-09	2.2	3.85E-06	7.95E-09	8.49E-09	2.3	4.16E-06	8.55E-09	8.83E-09
Pyridine	694-59-7	-	-	-	-	< 3.6	< 6.96E-06	< 1.43E-08	< 1.43E-08	< 3.8	< 6.72E-06	< 1.39E-08	< 1.48E-08	< 3.7	< 6.84E-06	< 1.41E-08	< 1.45E-08
Phenol	108-95-2	-	-	-	-	1.0	1.98E-06	4.05E-09	4.06E-09	5.3	9.41E-06	1.94E-08	2.07E-08	3.2	5.69E-06	1.17E-08	1.24E-08
bis(2-Chloroethyl)ether	111-44-4	-	-	-	-	< 2.5	< 4.82E-06	< 9.87E-09	< 9.88E-09	< 2.6	< 4.63E-06	< 9.56E-09	< 1.02E-08	< 2.6	< 4.72E-06	< 9.71E-09	< 1.00E-08
2-Chlorophenol	95-57-8	-	-	-	-	< 2.1	< 3.98E-06	< 8.16E-09	< 8.17E-09	< 2.2	< 3.84E-06	< 7.92E-09	< 8.46E-09	< 2.1	< 3.91E-06	< 8.04E-09	< 8.31E-09
1,3-Dichlorobenzene	541-73-1	-	-	-	-	< 1.9	< 3.67E-06	< 7.53E-09	< 7.54E-09	< 2.0	< 3.53E-06	< 7.26E-09	< 7.78E-09	< 1.9	< 3.60E-06	< 7.41E-09	< 7.66E-09
1,4-Dichlorobenzene	106-46-7	-	-	-	-	0.8	1.54E-06	3.15E-09	3.15E-09	0.2	3.84E-07	7.92E-10	8.46E-10	0.5	9.60E-07	1.97E-09	2.00E-09
1,2-Dichlorobenzen	95-50-1	-	-	-	-	< 2.0	< 3.78E-06	< 7.74E-09	< 7.75E-09	< 2.1	< 3.63E-06	< 7.50E-09	< 8.01E-09	< 2.0	< 3.71E-06	< 7.62E-09	< 7.88E-09
2,2'-oxybis(1-Chloropropane)	540-54-5	-	-	-	-	< 2.5	< 4.84E-06	< 9.92E-09	< 9.93E-09	< 2.6	< 4.65E-06	< 9.61E-09	< 1.03E-08	< 2.6	< 4.75E-06	< 9.76E-09	< 1.01E-08
Benzyl alcohol	100-51-6	-	-	-	-	2.5	4.80E-06	9.84E-09	9.85E-09	7.0	1.25E-05	2.57E-08	2.74E-08	4.8	8.63E-06	1.78E-08	1.86E-08
2-Methylphenol		-	-	-	-	< 2.6	< 5.08E-06	< 1.04E-08	< 1.04E-08	< 2.6	< 4.90E-06	< 1.01E-08	< 1.08E-08	< 2.7	< 4.99E-06	< 1.03E-08	< 1.06E-08
3/4-Methylphenol		-	-	-	-	1.1	2.08E-06	4.27E-09	4.27E-09	0.4	7.15E-07	1.48E-09	1.58E-09	0.8	1.40E-06	2.87E-09	2.92E-09
N-Nitroso-di-n-propylamine		-	-	-	-	< 3.6	< 7.00E-06	< 1.44E-08	< 1.44E-08	< 3.8	< 6.76E-06	< 1.39E-08	< 1.49E-08	< 3.7	< 6.88E-06	< 1.41E-08	< 1.46E-08
Hexachloroethane	67-72-1	-	-	-	-	< 4.0	< 7.72E-06	< 1.58E-08	< 1.58E-08	< 4.2	< 7.43E-06	< 1.53E-08	< 1.64E-08	< 4.1	< 7.57E-06	< 1.56E-08	< 1.61E-08
Nitrobenzene	98-95-3	-	-	-	-	< 2.1	< 4.09E-06	< 8.39E-09	< 8.40E-09	< 2.2	< 3.82E-06	< 7.89E-09	< 8.43E-09	< 2.1	< 3.96E-06	< 8.14E-09	< 8.41E-09
Isophorone	78-59-1	-	-	-	-	14.0	2.67E-05	5.48E-08	5.48E-08	19.7	3.50E-05	7.22E-08	7.71E-08	16.8	3.09E-05	6.35E-08	6.60E-08
2-Nitrophenol	88-75-5	-	-	-	-	< 3.4	< 6.55E-06	< 1.34E-08	< 1.34E-08	< 3.5	< 6.14E-06	< 1.27E-08	< 1.35E-08	< 3.4	< 6.34E-06	< 1.30E-08	< 1.35E-08
2,4-Dimethylphenol	1300-71-6	-	-	-	-	< 2.5	< 4.89E-06	< 1.00E-08	< 1.00E-08	< 2.6	< 4.59E-06	< 9.46E-09	< 1.01E-08	< 2.6	< 4.74E-06	< 9.74E-09	< 1.01E-08
bis(2-Chloroethoxy)methane		-	-	-	-	< 2.0	< 3.89E-06	< 7.97E-09	< 7.98E-09	< 2.1	< 3.64E-06	< 7.52E-09	< 8.03E-09	< 2.0	< 3.77E-06	< 7.75E-09	< 8.01E-09
Benzoic acid	65-85-0	-	-	-	-	20.7	4.06E-05	8.32E-08	8.33E-08	27.1	4.81E-05	9.93E-08	1.06E-07	23.9	4.44E-05	9.13E-08	9.47E-08
2,4-Dichlorophenol	120-83-2	-	-	-	-	< 2.6	< 4.97E-06	< 1.02E-08	< 1.02E-08	< 2.6	< 4.67E-06	< 9.63E-09	< 1.03E-08	< 2.6	< 4.82E-06	< 9.91E-09	< 1.02E-08
1,2,4-Trichlorobenzene	120-83-2	-	-	-	-	< 2.2	< 4.30E-06	< 8.81E-09	< 8.81E-09	< 2.3	< 4.03E-06	< 8.33E-09	< 8.89E-09	< 2.3	< 4.17E-06	< 8.57E-09	< 8.85E-09
Naphthalene	91-20-3	-	-	-	-	15.5	2.99E-05	6.12E-08	6.13E-08	18.3	2.89E-05	5.96E-08	6.37E-08	15.9	2.94E-05	6.04E-08	6.25E-08
4-Chloroaniline		-	-	-	-	< 1.7	< 3.34E-06	< 6.83E-09	< 6.84E-09	< 1.8	< 3.15E-06	< 6.50E-09	< 6.95E-09	< 1.8	< 3.24E-06	< 6.67E-09	< 6.89E-09
Hexachlorobutadiene	87-68-3	-	-	-	-	< 3.8	< 7.35E-06	< 1.51E-08	< 1.51E-08	< 3.9	< 6.88E-06	< 1.42E-08	< 1.52E-08	< 3.8	< 7.11E-06	< 1.46E-08	< 1.51E-08
4-Chloro-3-methylphenol		-	-	-	-	< 3.0	< 5.73E-06	< 1.17E-08	< 1.18E-08	< 3.0	< 5.36E-06	< 1.11E-08	< 1.18E-08	< 3.0	< 5.55E-06	< 1.14E-08	< 1.18E-08
2-Methylnaphthalene		-	-	-	-	12.3	2.35E-05	4.81E-08	4.82E-08	13.8	2.45E-05	5.06E-08	5.40E-08	13.0	2.40E-05	4.94E-08	5.11E-08
Hexachlorocyclopentadiene	77-47-4	-	-	-	-	< 3.9	< 7.50E-06	< 1.54E-08	< 1.54E-08	< 4.0	< 7.11E-06	< 1.47E-08	< 1.57E-08	< 3.9	< 7.30E-06	< 1.50E-08	< 1.55E-08
2,4,6-Trichlorophenol	88-06-2	-	-	-	-	< 4.1	< 7.85E-06	< 1.61E-08	< 1.61E-08	< 4.2	< 7.42E-06	< 1.53E-08	< 1.63E-08	< 4.1	< 7.63E-06	< 1.57E-08	< 1.62E-08

TRC

Table I.1-2

Extruder SSR Locations A and B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average (of Runs 2 and 3) Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
2,4,5-Trichlorophenol	95-95-4	-	-	-	-	< 4.1	< 7.95E-06	< 1.63E-08	< 1.63E-08	< 4.3	< 7.52E-06	< 1.55E-08	< 1.66E-08	< 4.2	< 7.73E-06	< 1.59E-08	< 1.64E-08
2-Chloronaphthalene	1335-88-2	-	-	-	-	0.3	5.79E-07	1.19E-09	1.19E-09	0.3	4.64E-07	9.57E-10	1.02E-09	0.3	5.21E-07	1.07E-09	1.11E-09
2-Nitroaniline		-	-	-	-	< 4.4	< 8.56E-06	< 1.75E-08	< 1.76E-08	< 3.6	< 6.35E-06	< 1.31E-08	< 1.40E-08	< 4.0	< 7.46E-06	< 1.53E-08	< 1.58E-08
Dimethylphthalate	131-11-13	-	-	-	-	< 1.1	< 2.06E-06	< 4.23E-09	< 4.23E-09	< 1.1	< 1.97E-06	< 4.07E-09	< 4.35E-09	< 1.1	< 2.02E-06	< 4.15E-09	< 4.29E-09
2,6-Dinitrotoluene		-	-	-	-	< 4.4	< 8.46E-06	< 1.73E-08	< 1.74E-08	< 4.5	< 7.99E-06	< 1.65E-08	< 1.76E-08	< 4.4	< 8.23E-06	< 1.69E-08	< 1.75E-08
2,4-Dinitrotoluene	121-14-2	-	-	-	-	< 3.3	< 6.31E-06	< 1.29E-08	< 1.30E-08	< 3.4	< 5.96E-06	< 1.23E-08	< 1.31E-08	< 3.3	< 6.14E-06	< 1.26E-08	< 1.30E-08
Acenaphthylene		-	-	-	-	2.2	4.25E-06	8.72E-09	8.73E-09	2.6	4.66E-06	9.61E-09	1.03E-08	2.4	4.46E-06	9.16E-09	9.50E-09
3-Nitroaniline		-	-	-	-	< 4.2	< 8.03E-06	< 1.65E-08	< 1.65E-08	< 4.3	< 7.60E-06	< 1.57E-08	< 1.68E-08	< 4.2	< 7.82E-06	< 1.61E-08	< 1.66E-08
Acenaphthene		-	-	-	-	0.8	1.62E-06	3.31E-09	3.32E-09	0.8	1.48E-06	3.06E-09	3.27E-09	0.8	1.55E-06	3.19E-09	3.29E-09
2,4-Dinitrophenol		-	-	-	-	< 17.2	< 3.32E-05	< 6.80E-08	< 6.81E-08	< 17.7	< 3.14E-05	< 6.46E-08	< 6.92E-08	< 17.5	< 3.23E-05	< 6.64E-08	< 6.86E-08
4-Nitrophenol		-	-	-	-	< 16.5	< 3.20E-05	< 6.55E-08	< 6.56E-08	< 17.1	< 3.02E-05	< 6.23E-08	< 6.66E-08	< 16.8	< 3.11E-05	< 6.39E-08	< 6.61E-08
Dibenzofuran	38178-38-0	-	-	-	-	0.7	1.30E-06	2.66E-09	2.66E-09	0.7	1.21E-06	2.49E-09	2.66E-09	0.7	1.25E-06	2.58E-09	2.66E-09
Diethylphthalate	84-66-2	-	-	-	-	4.9	9.54E-06	1.95E-08	1.96E-08	1.3	2.25E-06	4.65E-09	4.96E-09	3.1	5.89E-06	1.21E-08	1.23E-08
4-Chlorophenyl-phenylether		-	-	-	-	< 2.5	< 4.74E-06	< 9.71E-09	< 9.72E-09	< 2.5	< 4.48E-06	< 9.25E-09	< 9.88E-09	< 2.5	< 4.61E-06	< 9.46E-09	< 9.80E-09
Fluorene	86-73-7	-	-	-	-	0.9	1.69E-06	3.46E-09	3.46E-09	0.7	1.20E-06	2.46E-09	2.65E-09	0.8	1.45E-06	2.97E-09	3.06E-09
4-Nitroaniline		-	-	-	-	< 4.9	< 9.44E-06	< 1.93E-08	< 1.94E-08	< 5.0	< 8.92E-06	< 1.84E-08	< 1.97E-08	< 5.0	< 9.16E-06	< 1.89E-08	< 1.95E-08
4,6-Dinitro-2-methylphenol	85-01-8	-	-	-	-	< 9.9	< 1.92E-05	< 3.94E-08	< 3.94E-08	< 10.7	< 1.89E-05	< 3.90E-08	< 4.17E-08	< 10.3	< 1.91E-05	< 3.92E-08	< 4.05E-08
4-Bromophenyl-phenyether	121-14-2	-	-	-	-	< 4.0	< 7.73E-06	< 1.58E-08	< 1.59E-08	< 4.3	< 7.59E-06	< 1.57E-08	< 1.67E-08	< 4.1	< 7.66E-06	< 1.58E-08	< 1.63E-08
Hexachlorobenzene	118-74-1	-	-	-	-	< 3.1	< 6.02E-06	< 1.23E-08	< 1.23E-08	< 3.3	< 5.91E-06	< 1.22E-08	< 1.30E-08	< 3.2	< 5.97E-06	< 1.23E-08	< 1.27E-08
Pentachlorophenol	87-86-5	-	-	-	-	< 9.8	< 1.89E-05	< 3.87E-08	< 3.87E-08	< 10.5	< 1.86E-05	< 3.83E-08	< 4.10E-08	< 10.1	< 1.87E-05	< 3.85E-08	< 3.98E-08
Phenanthrene	85-01-8	-	-	-	-	2.2	4.24E-06	8.69E-09	8.70E-09	2.4	4.29E-06	8.86E-09	9.46E-09	2.3	4.27E-06	8.77E-09	9.08E-09
Anthracene	120-12-7	-	-	-	-	< 1.0	< 1.85E-06	< 3.80E-09	< 3.80E-09	< 1.0	< 1.82E-06	< 3.76E-09	< 4.02E-09	< 1.0	< 1.84E-06	< 3.78E-09	< 3.91E-09
Di-n-butylphthalate		-	-	-	-	20.6	3.90E-05	8.00E-08	8.01E-08	< 19.1	< 3.38E-05	< 6.97E-08	< 7.45E-08	< 19.9	< 3.64E-05	< 7.49E-08	< 7.73E-08
Fluoranthene	206-44-0	-	-	-	-	0.0	5.30E-08	1.09E-10	1.09E-10	< 1.2	< 2.19E-06	< 4.52E-09	< 4.82E-09	< 0.6	< 1.12E-06	< 2.31E-09	< 2.47E-09
Pyrene	129-00-0	-	-	-	-	0.5	9.36E-07	1.92E-09	1.92E-09	0.9	1.57E-06	3.24E-09	3.46E-09	0.7	1.25E-06	2.58E-09	2.69E-09
Butylbenzylphthalate		-	-	-	-	2.4	4.61E-06	9.44E-09	9.45E-09	< 3.7	< 6.63E-06	< 1.37E-08	< 1.46E-08	< 3.1	< 5.62E-06	< 1.16E-08	< 1.20E-08
3,3'-Dichlorobenzidine	91-94-1	-	-	-	-	< 6.3	< 1.22E-05	< 2.50E-08	< 2.50E-08	< 7.6	< 1.35E-05	< 2.78E-08	< 2.97E-08	< 7.0	< 1.28E-05	< 2.64E-08	< 2.73E-08
bis(2-Ethylhexyl)phthalate		-	-	-	-	41.8	8.13E-05	1.67E-07	1.67E-07	35.4	6.27E-05	1.29E-07	1.38E-07	38.6	7.20E-05	1.48E-07	1.52E-07
Benzo(a)anthracene		-	-	-	-	< 2.0	< 3.96E-06	< 8.11E-09	< 8.12E-09	< 2.5	< 4.37E-06	< 9.02E-09	< 9.63E-09	< 2.3	< 4.16E-06	< 8.56E-09	< 8.87E-09
Chrysene	218-01-9	-	-	-	-	< 2.2	< 4.28E-06	< 8.76E-09	< 8.77E-09	< 2.7	< 4.74E-06	< 9.78E-09	< 1.04E-08	< 2.4	< 4.51E-06	< 9.27E-09	< 9.61E-09
Di-n-octylphthalate		-	-	-	-	< 1.6	< 3.09E-06	< 6.34E-09	< 6.35E-09	< 2.0	< 3.49E-06	< 7.20E-09	< 7.69E-09	< 1.8	< 3.29E-06	< 6.77E-09	< 7.02E-09
Benzo(b)fluoranthene		-	-	-	-	< 2.3	< 4.48E-06	< 9.19E-09	< 9.19E-09	< 2.9	< 5.05E-06	< 1.04E-08	< 1.11E-08	< 2.6	< 4.77E-06	< 9.80E-09	< 1.02E-08
Benzo(k)fluoranthene		-	-	-	-	< 2.4	< 4.56E-06	< 9.34E-09	< 9.35E-09	< 2.9	< 5.13E-06	< 1.06E-08	< 1.13E-08	< 2.6	< 4.84E-06	< 9.97E-09	< 1.03E-08
Benzo(a)pyrene	50-32-8	-	-	-	-	< 2.5	< 4.86E-06	< 9.96E-09	< 9.97E-09	< 3.1	< 5.46E-06	< 1.13E-08	< 1.20E-08	< 2.8	< 5.16E-06	< 1.06E-08	< 1.10E-08
Indeno(1,2,3-cd)pyrene		-	-	-	-	< 2.4	< 4.66E-06	< 9.56E-09	< 9.57E-09	< 3.0	< 5.25E-06	< 1.08E-08	< 1.16E-08	< 2.7	< 4.96E-06	< 1.02E-08	< 1.06E-08
Dibenz(a,h)anthracene		-	-	-	-	< 3.2	< 6.09E-06	< 1.25E-08	< 1.25E-08	< 3.9	< 6.84E-06	< 1.41E-08	< 1.51E-08	< 3.5	< 6.46E-06	< 1.33E-08	< 1.38E-08
Benzo(g,h,i)perylene		-	-	-	-	< 2.8	< 5.36E-06	< 1.10E-08	< 1.10E-08	< 3.4	< 6.02E-06	< 1.24E-08	< 1.33E-08	< 3.1	< 5.69E-06	< 1.17E-08	< 1.21E-08
Total Detected		-	-	-	-	238.4	4.56E-04	9.38E-07	9.39E-07	252.3	4.46E-04	9.24E-07	9.87E-07	232.22	4.28E-04	8.80E-07	9.12E-07
Total with non-detects		-	-	-	-	< 563.4	< 1.09E-03	< 2.23E-06	< 2.23E-06	< 638.7	< 1.13E-03	< 2.34E-06	< 2.49E-06	< 601.01	< 1.11E-03	< 2.28E-06	< 2.36E-06

TRC

Table L1-3

Extruder SBR Location A Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average (of Runs 2 and 3) Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine		-	-	-	-	< 3.0	< 5.81E-06	< 1.19E-08	< 1.19E-08	< 3.3	< 5.77E-06	< 1.19E-08	< 1.27E-08	< 3.1	< 5.79E-06	< 1.19E-08	< 1.23E-08
Cumene	98-82-8	-	-	-	-	7.4	1.45E-05	2.97E-08	2.97E-08	2.8	4.94E-06	1.02E-08	1.09E-08	5.1	9.72E-06	2.00E-08	2.03E-08
Aniline	62-53-3	-	-	-	-	5.7	1.12E-05	2.30E-08	2.30E-08	5.6	9.90E-06	2.04E-08	2.18E-08	5.7	1.06E-05	2.17E-08	2.24E-08
Benzyl Chloride	100-44-7	-	-	-	-	< 0.7	< 1.37E-06	< 2.80E-09	< 2.80E-09	< 0.8	< 1.37E-06	< 2.82E-09	< 3.02E-09	< 0.7	< 1.37E-06	< 2.81E-09	< 2.91E-09
Acetophenone	98-86-2	-	-	-	-	1.2	2.34E-06	4.79E-09	4.80E-09	1.1	1.88E-06	3.88E-09	4.14E-09	1.1	2.11E-06	4.34E-09	4.47E-09
n-Nitrosomorpholine		-	-	-	-	< 2.0	< 4.03E-06	< 8.26E-09	< 8.27E-09	< 2.3	< 3.99E-06	< 8.23E-09	< 8.79E-09	< 2.2	< 4.01E-06	< 8.25E-09	< 8.53E-09
o-Toluidine	95-53-4	-	-	-	-	< 1.0	< 1.88E-06	< 3.85E-09	< 3.85E-09	< 1.1	< 1.86E-06	< 3.83E-09	< 4.09E-09	< 1.0	< 1.87E-06	< 3.84E-09	< 3.97E-09
1,2-Dibromo-3-chloropropane	96-12-8	-	-	-	-	< 2.6	< 5.17E-06	< 1.06E-08	< 1.06E-08	< 2.9	< 5.13E-06	< 1.06E-08	< 1.13E-08	< 2.8	< 5.15E-06	< 1.06E-08	< 1.09E-08
N,N-Diethylaniline	91-66-7	-	-	-	-	< 0.9	< 1.71E-06	< 3.51E-09	< 3.52E-09	< 1.0	< 1.69E-06	< 3.49E-09	< 3.73E-09	< 0.9	< 1.70E-06	< 3.50E-09	< 3.62E-09
N,N-Dimethylaniline	121-69-7	-	-	-	-	< 0.9	< 1.69E-06	< 3.47E-09	< 3.47E-09	< 0.9	< 1.65E-06	< 3.40E-09	< 3.63E-09	< 0.9	< 1.67E-06	< 3.43E-09	< 3.55E-09
o-Anisidine	104-94-9	-	-	-	-	< 1.7	< 3.38E-06	< 6.93E-09	< 6.94E-09	< 1.9	< 3.27E-06	< 6.75E-09	< 7.21E-09	< 1.8	< 3.33E-06	< 6.84E-09	< 7.07E-09
1,4-Phenylenediamine		-	-	-	-	< 4.5	< 8.85E-06	< 1.81E-08	< 1.82E-08	< 4.9	< 8.60E-06	< 1.78E-08	< 1.90E-08	< 4.7	< 8.73E-06	< 1.79E-08	< 1.86E-08
α,α,α-Trichlorotoluene		-	-	-	-	*< 1.0*	*< 1.99E-06*	*< 4.08E-09*	*< 4.09E-09*	*< 1.1*	*< 1.92E-06*	*< 3.97E-09*	*< 4.24E-09*	< 1.1	< 1.96E-06	< 4.03E-09	< 4.16E-09
Hydroquinone	123-31-9	-	-	-	-	< 2.5	< 4.89E-06	< 1.00E-08	< 1.00E-08	< 2.7	< 4.73E-06	< 9.76E-09	< 1.04E-08	< 2.6	< 4.81E-06	< 9.89E-09	< 1.02E-08
2-Chloroacetophenone	532-27-4	-	-	-	-	< 0.8	< 1.48E-06	< 3.04E-09	< 3.04E-09	0.4	6.49E-07	1.34E-09	1.43E-09	< 0.6	< 1.07E-06	< 2.19E-09	< 2.24E-09
Biphenyl	92-52-4	-	-	-	-	< 0.6	< 1.25E-06	< 2.56E-09	< 2.57E-09	< 0.7	< 1.25E-06	< 2.58E-09	< 2.76E-09	< 0.7	< 1.25E-06	< 2.57E-09	< 2.66E-09
Trifluralin	1582-09-8	-	-	-	-	< 2.8	< 5.56E-06	< 1.14E-08	< 1.14E-08	< 3.2	< 5.61E-06	< 1.16E-08	< 1.24E-08	< 3.0	< 5.59E-06	< 1.15E-08	< 1.19E-08
4-Aminobiphenyl	90-41-5	-	-	-	-	< 0.9	< 1.81E-06	< 3.70E-09	< 3.71E-09	< 1.1	< 1.88E-06	< 3.88E-09	< 4.14E-09	< 1.0	< 1.84E-06	< 3.79E-09	< 3.92E-09
Pentachloronitrobenzene	82-68-8	-	-	-	-	< 5.6	< 1.14E-05	< 2.33E-08	< 2.33E-08	< 6.7	< 1.18E-05	< 2.43E-08	< 2.60E-08	< 6.2	< 1.16E-05	< 2.38E-08	< 2.47E-08
4-Nitrobiphenyl	92-93-3	-	-	-	-	< 1.9	< 3.75E-06	< 7.69E-09	< 7.70E-09	< 2.2	< 3.87E-06	< 7.99E-09	< 8.54E-09	< 2.1	< 3.81E-06	< 7.84E-09	< 8.12E-09
Benzidine	92-87-5	-	-	-	-	< 2.1	< 4.15E-06	< 8.50E-09	< 8.51E-09	< 2.8	< 5.01E-06	< 1.03E-08	< 1.10E-08	< 2.5	< 4.58E-06	< 9.42E-09	< 9.77E-09
4,4'-Methylenedianiline	107-77-9	-	-	-	-	< 3.8	< 7.48E-06	< 1.53E-08	< 1.53E-08	< 5.1	< 9.00E-06	< 1.86E-08	< 1.98E-08	< 4.5	< 8.24E-06	< 1.70E-08	< 1.76E-08
Dimethylaminoazobenzene	60-11-7	-	-	-	-	< 2.4	< 4.77E-06	< 9.78E-09	< 9.79E-09	< 3.3	< 5.75E-06	< 1.19E-08	< 1.27E-08	< 2.8	< 5.26E-06	< 1.08E-08	< 1.12E-08
3,3'-Dimethylbenzidine	119-93-7	-	-	-	-	< 1.8	< 3.52E-06	< 7.22E-09	< 7.22E-09	< 2.4	< 4.24E-06	< 8.76E-09	< 9.35E-09	< 2.1	< 3.88E-06	< 7.99E-09	< 8.29E-09
3,3'-Dimethoxybenzidine	119-90-4	-	-	-	-	< 5.2	< 1.02E-05	< 2.09E-08	< 2.09E-08	< 7.0	< 1.23E-05	< 2.53E-08	< 2.70E-08	< 6.1	< 1.12E-05	< 2.31E-08	< 2.40E-08
Methylene bis-chloroaniline	101-14-4	-	-	-	-	< 5.8	< 1.14E-05	< 2.33E-08	< 2.33E-08	*< 7.8*	*< 1.37E-05*	*< 2.82E-08*	*< 3.02E-08*	*< 6.8*	*< 1.25E-05*	*< 2.58E-08*	*< 2.67E-08*
3-Furaldehyde		-	-	-	-	< 2.6	< 5.07E-06	< 1.04E-08	< 1.04E-08	< 2.9	< 5.06E-06	< 1.04E-08	< 1.11E-08	< 2.7	< 5.06E-06	< 1.04E-08	< 1.08E-08
2-Furaldehyde		-	-	-	-	< 2.2	< 4.33E-06	< 8.88E-09	< 8.89E-09	0.4	6.49E-07	1.34E-09	1.43E-09	< 1.3	< 2.49E-06	< 5.11E-09	< 5.16E-09
Cyclohexylamine	108-91-8	-	-	-	-	0.1	2.32E-07	4.75E-10	4.75E-10	< 5.4	< 9.53E-06	< 1.97E-08	< 2.10E-08	< 2.8	< 4.88E-06	< 1.01E-08	< 1.07E-08
N-Nitrosodiethylamine		-	-	-	-	< 2.9	< 5.79E-06	< 1.19E-08	< 1.19E-08	< 3.3	< 5.75E-06	< 1.19E-08	< 1.27E-08	< 3.1	< 5.77E-06	< 1.19E-08	< 1.23E-08
Cyclohexanone	108-94-1	-	-	-	-	0.6	1.20E-06	2.47E-09	2.47E-09	< 1.9	< 3.34E-06	< 6.89E-09	< 7.36E-09	< 1.3	< 2.27E-06	< 4.68E-09	< 4.92E-09
1,3-Cyclooctadiene	29965-97-7	-	-	-	-	< 1.5	< 2.90E-06	< 5.93E-09	< 5.94E-09	< 1.6	< 2.88E-06	< 5.94E-09	< 6.34E-09	< 1.6	< 2.89E-06	< 5.93E-09	< 6.14E-09
1,5-Cyclooctadiene		-	-	-	-	< 3.2	< 6.35E-06	< 1.30E-08	< 1.30E-08	< 3.6	< 6.28E-06	< 1.30E-08	< 1.39E-08	< 3.4	< 6.32E-06	< 1.30E-08	< 1.34E-08
Camphene	79-92-5	-	-	-	-	< 1.7	< 3.31E-06	< 6.79E-09	< 6.80E-09	< 1.9	< 3.27E-06	< 6.75E-09	< 7.21E-09	< 1.8	< 3.29E-06	< 6.77E-09	< 7.00E-09
Benzaldehyde	100-52-7	-	-	-	-	1.7	3.29E-06	6.74E-09	6.75E-09	2.5	4.36E-06	9.00E-09	9.61E-09	2.1	3.82E-06	7.87E-09	8.18E-09
Benzonitrile	100-47-0	-	-	-	-	< 0.7	< 1.32E-06	< 2.71E-09	< 2.71E-09	< 0.7	< 1.30E-06	< 2.68E-09	< 2.86E-09	< 0.7	< 1.31E-06	< 2.69E-09	< 2.79E-09

TRC

Table L1-3

Extruder SBR Location A Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average (of Runs 2 and 3) Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Isooctanol		-	-	-	-	< 5.7	< 1.11E-05	< 2.28E-08	< 2.29E-08	< 6.3	< 1.11E-05	< 2.28E-08	< 2.44E-08	< 6.0	< 1.11E-05	< 2.28E-08	< 2.36E-08
1,2,4-Trimethylbenzene	95-63-6	-	-	-	-	3.4	6.72E-06	1.38E-08	1.38E-08	2.4	4.22E-06	8.71E-09	9.30E-09	2.9	5.47E-06	1.12E-08	1.15E-08
3-Methylstyrene	98-83-9	-	-	-	-	< 1.0	< 1.92E-06	< 3.94E-09	< 3.94E-09	< 1.1	< 1.90E-06	< 3.92E-09	< 4.19E-09	< 1.0	< 1.91E-06	< 3.93E-09	< 4.07E-09
4-Methylstyrene		-	-	-	-	< 1.0	< 2.04E-06	< 4.18E-09	< 4.18E-09	< 1.1	< 2.02E-06	< 4.16E-09	< 4.45E-09	< 1.1	< 2.03E-06	< 4.17E-09	< 4.31E-09
4-Chlorostyrene	1331-28-8	-	-	-	-	< 1.2	< 2.29E-06	< 4.70E-09	< 4.70E-09	< 1.3	< 2.27E-06	< 4.69E-09	< 5.01E-09	< 1.2	< 2.28E-06	< 4.70E-09	< 4.86E-09
1-Dodecane	6842-15-5	-	-	-	-	< 6.3	< 1.25E-05	< 2.55E-08	< 2.56E-08	< 6.9	< 1.21E-05	< 2.49E-08	< 2.66E-08	< 6.6	< 1.23E-05	< 2.52E-08	< 2.61E-08
Phthalimide	85-41-6	-	-	-	-	< 2.6	< 5.05E-06	< 1.03E-08	< 1.04E-08	< 2.9	< 5.10E-06	< 1.05E-08	< 1.12E-08	< 2.7	< 5.08E-06	< 1.04E-08	< 1.08E-08
Diphenylamine		-	-	-	-	0.6	1.11E-06	2.28E-09	2.28E-09	0.2	3.48E-07	7.18E-10	7.67E-10	0.4	7.30E-07	1.50E-09	1.52E-09
Pyridine	694-59-7	-	-	-	-	< 2.0	< 3.96E-06	< 8.12E-09	< 8.13E-09	< 2.2	< 3.94E-06	< 8.14E-09	< 8.69E-09	< 2.1	< 3.95E-06	< 8.13E-09	< 8.41E-09
Phenol	108-95-2	-	-	-	-	< 19.0	< 3.75E-05	< 7.68E-08	< 7.68E-08	1.6	2.85E-06	5.89E-09	6.29E-09	< 10.3	< 2.02E-05	< 4.13E-08	< 4.16E-08
bis(2-Chloroethyl)ether	111-44-4	-	-	-	-	< 1.4	< 2.73E-06	< 5.60E-09	< 5.61E-09	< 1.5	< 2.71E-06	< 5.60E-09	< 5.98E-09	< 1.5	< 2.72E-06	< 5.60E-09	< 5.79E-09
2-Chlorophenol	95-57-8	-	-	-	-	< 1.2	< 2.27E-06	< 4.65E-09	< 4.66E-09	< 1.3	< 2.25E-06	< 4.64E-09	< 4.96E-09	< 1.2	< 2.26E-06	< 4.65E-09	< 4.81E-09
1,3-Dichlorobenzene	541-73-1	-	-	-	-	< 1.1	< 2.08E-06	< 4.27E-09	< 4.28E-09	< 1.2	< 2.06E-06	< 4.26E-09	< 4.55E-09	< 1.1	< 2.07E-06	< 4.27E-09	< 4.41E-09
1,4,-Dichlorobenzene	106-46-7	-	-	-	-	< 1.0	< 2.02E-06	< 4.13E-09	< 4.13E-09	< 1.1	< 1.99E-06	< 4.12E-09	< 4.40E-09	< 1.1	< 2.00E-06	< 4.12E-09	< 4.27E-09
1,2-Dichlorobenzen	95-50-1	-	-	-	-	< 1.1	< 2.15E-06	< 4.41E-09	< 4.42E-09	< 1.2	< 2.13E-06	< 4.40E-09	< 4.70E-09	< 1.2	< 2.14E-06	< 4.41E-09	< 4.56E-09
2,2'-oxybis(1-Chloropropane)	540-54-5	-	-	-	-	< 1.4	< 2.76E-06	< 5.65E-09	< 5.65E-09	< 1.6	< 2.74E-06	< 5.65E-09	< 6.03E-09	< 1.5	< 2.75E-06	< 5.65E-09	< 5.84E-09
Benzyl alcohol	100-51-6	-	-	-	-	< 2.6	< 5.14E-06	< 1.05E-08	< 1.05E-08	2.8	4.92E-06	1.01E-08	1.08E-08	< 2.7	< 5.03E-06	< 1.03E-08	< 1.07E-08
2-Methylphenol		-	-	-	-	< 1.5	< 2.90E-06	< 5.93E-09	< 5.94E-09	< 1.6	< 2.88E-06	< 5.94E-09	< 6.34E-09	< 1.6	< 2.89E-06	< 5.93E-09	< 6.14E-09
3/4-Methyphenol		-	-	-	-	< 1.4	< 2.76E-06	< 5.65E-09	< 5.65E-09	< 1.6	< 2.74E-06	< 5.65E-09	< 6.03E-09	< 1.5	< 2.75E-06	< 5.65E-09	< 5.84E-09
N-Nitroso-di-n-propylamine		-	-	-	-	< 2.0	< 3.98E-06	< 8.17E-09	< 8.17E-09	< 2.3	< 3.97E-06	< 8.18E-09	< 8.74E-09	< 2.1	< 3.98E-06	< 8.17E-09	< 8.46E-09
Hexachloroethane	67-72-1	-	-	-	-	< 2.2	< 4.40E-06	< 9.02E-09	< 9.03E-09	< 2.5	< 4.36E-06	< 9.00E-09	< 9.61E-09	< 2.4	< 4.38E-06	< 9.01E-09	< 9.32E-09
Nitrobenzene	98-95-3	-	-	-	-	< 1.2	< 2.36E-06	< 4.84E-09	< 4.85E-09	< 1.3	< 2.27E-06	< 4.69E-09	< 5.01E-09	< 1.2	< 2.32E-06	< 4.77E-09	< 4.93E-09
Isophorone	78-59-1	-	-	-	-	3.7	7.32E-06	1.50E-08	1.50E-08	2.8	5.01E-06	1.03E-08	1.10E-08	3.3	6.16E-06	1.27E-08	1.30E-08
2-Nitrophenol	88-75-5	-	-	-	-	< 1.9	< 3.78E-06	< 7.74E-09	< 7.75E-09	< 2.1	< 3.66E-06	< 7.56E-09	< 8.08E-09	< 2.0	< 3.72E-06	< 7.65E-09	< 7.91E-09
2,4-Dimethylphenol	1300-71-6	-	-	-	-	< 1.4	< 2.83E-06	< 5.79E-09	< 5.80E-09	< 1.6	< 2.74E-06	< 5.65E-09	< 6.03E-09	< 1.5	< 2.78E-06	< 5.72E-09	< 5.91E-09
bis(2-Chloroethoxy)methane		-	-	-	-	< 1.1	< 2.25E-06	< 4.60E-09	< 4.61E-09	< 1.2	< 2.18E-06	< 4.50E-09	< 4.81E-09	< 1.2	< 2.21E-06	< 4.55E-09	< 4.71E-09
Benzoic acid	65-85-0	-	-	-	-	20.6	4.05E-05	8.30E-08	8.31E-08	6.2	1.09E-05	2.24E-08	2.39E-08	13.4	2.57E-05	5.27E-08	5.35E-08
2,4-Dichlorophenol	120-83-2	-	-	-	-	< 1.5	< 2.87E-06	< 5.89E-09	< 5.89E-09	< 1.6	< 2.78E-06	< 5.74E-09	< 6.13E-09	< 1.5	< 2.83E-06	< 5.82E-09	< 6.01E-09
1,2,4-Trichlorobenzene	120-83-2	-	-	-	-	< 1.3	< 2.48E-06	< 5.08E-09	< 5.08E-09	< 1.4	< 2.41E-06	< 4.96E-09	< 5.32E-09	< 1.3	< 2.45E-06	< 5.03E-09	< 5.20E-09
Naphthalene	91-20-3	-	-	-	-	6.3	1.24E-05	2.54E-08	2.55E-08	7.6	1.34E-05	2.76E-08	2.94E-08	6.9	1.29E-05	2.65E-08	2.75E-08
4-Chloroaniline		-	-	-	-	< 1.0	< 1.92E-06	< 3.94E-09	< 3.94E-09	< 1.1	< 1.88E-06	< 3.88E-09	< 4.14E-09	< 1.0	< 1.90E-06	< 3.91E-09	< 4.04E-09
Hexachlorobutadiene	87-68-3	-	-	-	-	< 2.2	< 4.24E-06	< 8.69E-09	< 8.70E-09	< 2.3	< 4.10E-06	< 8.47E-09	< 9.05E-09	< 2.2	< 4.17E-06	< 8.58E-09	< 8.87E-09
4-Chloro-3-methylphenol		-	-	-	-	< 1.7	< 3.31E-06	< 6.79E-09	< 6.80E-09	< 1.8	< 3.20E-06	< 6.61E-09	< 7.05E-09	< 1.8	< 3.26E-06	< 6.70E-09	< 6.92E-09
2-Methylnaphthalene		-	-	-	-	2.9	5.77E-06	1.18E-08	1.18E-08	1.7	3.01E-06	6.22E-09	6.65E-09	2.3	4.39E-06	9.02E-09	9.24E-09
Hexachlorocyclopentadiene	77-47-4	-	-	-	-	< 2.2	< 4.29E-06	< 8.78E-09	< 8.79E-09	< 2.5	< 4.34E-06	< 8.95E-09	< 9.56E-09	< 2.3	< 4.31E-06	< 8.87E-09	< 9.18E-09
2,4,6-Trichlorophenol	88-06-2	-	-	-	-	< 2.3	< 4.49E-06	< 9.21E-09	< 9.22E-09	< 2.6	< 4.52E-06	< 9.33E-09	< 9.97E-09	< 2.4	< 4.51E-06	< 9.27E-09	< 9.59E-09

TRC

Table L1-3

Extruder SBR Location A Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft³ rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft³ rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft³ rubber	Average (of Runs 2 and 3) Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft³ rubber
2,4,5-Trichlorophenol	95-95-4	-	-	-	-	< 2.3	< 4.54E-06	< 9.30E-09	< 9.31E-09	< 2.6	< 4.59E-06	< 9.48E-09	< 1.01E-08	< 2.5	< 4.57E-06	< 9.39E-09	< 9.72E-09
2-Chloronaphthalene	1335-88-2	-	-	-	-	0.3	5.79E-07	1.19E-09	1.19E-09	0.3	4.64E-07	9.57E-10	1.02E-09	0.3	5.21E-07	1.07E-09	1.11E-09
2-Nitroaniline		-	-	-	-	< 2.5	< 4.89E-06	< 1.00E-08	< 1.00E-08	< 2.8	< 4.94E-06	< 1.02E-08	< 1.09E-08	< 2.6	< 4.91E-06	< 1.01E-08	< 1.05E-08
Dimethylphthalate	131-11-13	-	-	-	-	< 0.6	< 1.18E-06	< 2.42E-09	< 2.42E-09	< 0.7	< 1.21E-06	< 2.49E-09	< 2.66E-09	< 0.6	< 1.19E-06	< 2.45E-09	< 2.54E-09
2,6-Dinitrotoluene		-	-	-	-	< 2.5	< 4.84E-06	< 9.92E-09	< 9.93E-09	< 2.8	< 4.87E-06	< 1.01E-08	< 1.07E-08	< 2.6	< 4.86E-06	< 9.99E-09	< 1.03E-08
2,4-Dinitrotoluene	121-14-2	-	-	-	-	< 1.8	< 3.61E-06	< 7.41E-09	< 7.41E-09	< 2.1	< 3.64E-06	< 7.51E-09	< 8.03E-09	< 2.0	< 3.63E-06	< 7.46E-09	< 7.72E-09
Acenaphthylene		-	-	-	-	< 0.5	< 9.96E-07	< 2.04E-09	< 2.04E-09	< 0.5	< 8.58E-07	< 1.77E-09	< 1.89E-09	< 0.5	< 9.27E-07	< 1.91E-09	< 1.97E-09
3-Nitroaniline		-	-	-	-	< 2.3	< 4.59E-06	< 9.40E-09	< 9.41E-09	< 2.6	< 4.64E-06	< 9.57E-09	< 1.02E-08	< 2.5	< 4.61E-06	< 9.49E-09	< 9.82E-09
Acenaphthene		-	-	-	-	0.2	4.86E-07	9.97E-10	9.98E-10	0.6	1.48E-06	3.06E-09	3.27E-09	0.5	9.85E-07	2.03E-09	2.13E-09
2,4-Dinitrophenol		-	-	-	-	< 9.6	< 1.90E-05	< 3.89E-08	< 3.89E-08	< 10.9	< 1.92E-05	< 3.95E-08	< 4.22E-08	< 10.3	< 1.91E-05	< 3.92E-08	< 4.06E-08
4-Nitrophenol		-	-	-	-	< 9.3	< 1.83E-05	< 3.75E-08	< 3.75E-08	< 10.5	< 1.84E-05	< 3.81E-08	< 4.06E-08	< 9.9	< 1.84E-05	< 3.78E-08	< 3.91E-08
Dibenzofuran	38178-38-0	-	-	-	-	0.3	5.56E-07	1.14E-09	1.14E-09	0.3	5.10E-07	1.05E-09	1.12E-09	0.3	5.33E-07	1.10E-09	1.13E-09
Diethylphthalate	84-66-2	-	-	-	-	4.5	8.92E-06	1.83E-08	1.83E-08	0.7	1.21E-06	2.49E-09	2.66E-09	2.6	5.06E-06	1.04E-08	1.05E-08
4-Chlorophenyl-phenylether		-	-	-	-	< 1.4	< 2.71E-06	< 5.55E-09	< 5.56E-09	< 1.6	< 2.74E-06	< 5.65E-09	< 6.03E-09	< 1.5	< 2.72E-06	< 5.60E-09	< 5.80E-09
Fluorene	86-73-7	-	-	-	-	0.2	4.86E-07	9.97E-10	9.98E-10	< 0.7	< 1.28E-06	< 2.63E-09	< 2.61E-09	< 0.5	< 8.81E-07	< 1.81E-09	< 1.90E-09
4-Nitroaniline		-	-	-	-	< 2.7	< 5.40E-06	< 1.11E-08	< 1.11E-08	< 3.1	< 5.45E-06	< 1.12E-08	< 1.20E-08	< 2.9	< 5.42E-06	< 1.12E-08	< 1.15E-08
4,6-Dinitro-2-methylphenol	85-01-8	-	-	-	-	< 5.5	< 1.09E-05	< 2.23E-08	< 2.23E-08	< 6.4	< 1.12E-05	< 2.32E-08	< 2.48E-08	< 6.0	< 1.11E-05	< 2.27E-08	< 2.35E-08
4-Bromophenyl-phenyether	121-14-2	-	-	-	-	< 2.2	< 4.38E-06	< 8.97E-09	< 8.98E-09	< 2.6	< 4.52E-06	< 9.33E-09	< 9.97E-09	< 2.4	< 4.45E-06	< 9.15E-09	< 9.47E-09
Hexachlorobenzene	118-74-1	-	-	-	-	< 1.7	< 3.41E-06	< 6.98E-09	< 6.99E-09	< 2.0	< 3.52E-06	< 7.28E-09	< 7.77E-09	< 1.9	< 3.47E-06	< 7.13E-09	< 7.38E-09
Pentachlorophenol	87-86-5	-	-	-	-	< 5.4	< 1.07E-05	< 2.19E-08	< 2.19E-08	< 6.3	< 1.11E-05	< 2.28E-08	< 2.44E-08	< 5.9	< 1.09E-05	< 2.24E-08	< 2.31E-08
Phenanthrene	85-01-8	-	-	-	-	1.1	2.25E-06	4.60E-09	4.61E-09	1.0	1.83E-06	3.78E-09	4.04E-09	1.1	2.04E-06	4.19E-09	4.32E-09
Anthracene	120-12-7	-	-	-	-	< 0.5	< 1.04E-06	< 2.14E-09	< 2.14E-09	< 0.6	< 1.09E-06	< 2.25E-09	< 2.40E-09	< 0.6	< 1.07E-06	< 2.19E-09	< 2.27E-09
Di-n-butylphthalate		-	-	-	-	< 24.4	< 4.81E-05	< 9.85E-08	< 9.86E-08	< 13.6	< 2.40E-05	< 4.94E-08	< 5.28E-08	< 19.0	< 3.60E-05	< 7.40E-08	< 7.57E-08
Fluoranthene	206-44-0	-	-	-	-	< 0.6	< 1.25E-06	< 2.56E-09	< 2.57E-09	< 0.7	< 1.30E-06	< 2.68E-09	< 2.86E-09	< 0.7	< 1.27E-06	< 2.62E-09	< 2.71E-09
Pyrene	129-00-0	-	-	-	-	< 0.6	< 1.25E-06	< 2.56E-09	< 2.57E-09	< 0.8	< 1.48E-06	< 3.06E-09	< 3.27E-09	< 0.7	< 1.37E-06	< 2.81E-09	< 2.92E-09
Butylbenzylphthalate		-	-	-	-	1.1	2.22E-06	4.56E-09	4.56E-09	< 2.3	< 3.97E-06	< 8.16E-09	< 8.74E-09	< 1.7	< 3.09E-06	< 6.37E-09	< 6.65E-09
3,3'-Dichlorobenzidine	91-94-1	-	-	-	-	< 3.3	< 6.42E-06	< 1.31E-08	< 1.32E-08	< 4.4	< 7.72E-06	< 1.59E-08	< 1.70E-08	< 3.8	< 7.07E-06	< 1.45E-08	< 1.51E-08
bis(2-Ethylhexyl)phthalate		-	-	-	-	29.0	5.70E-05	1.17E-07	1.17E-07	20.0	3.52E-05	7.28E-08	7.77E-08	24.5	4.61E-05	9.48E-08	9.73E-08
Benzo(a)anthracene		-	-	-	-	< 1.1	< 2.08E-06	< 4.27E-09	< 4.28E-09	< 1.4	< 2.50E-06	< 5.17E-09	< 5.52E-09	< 1.2	< 2.29E-06	< 4.72E-09	< 4.90E-09
Chrysene	218-01-9	-	-	-	-	< 1.1	< 2.25E-06	< 4.60E-09	< 4.61E-09	< 1.5	< 2.71E-06	< 5.60E-09	< 5.98E-09	< 1.3	< 2.48E-06	< 5.10E-09	< 5.30E-09
Di-n-octylphthalate		-	-	-	-	< 0.8	< 1.58E-06	< 3.23E-09	< 3.23E-09	< 1.1	< 1.97E-06	< 4.07E-09	< 4.35E-09	< 1.0	< 1.77E-06	< 3.65E-09	< 3.79E-09
Benzo(b)fluoranthene		-	-	-	-	< 1.2	< 2.29E-06	< 4.70E-09	< 4.70E-09	< 1.6	< 2.85E-06	< 5.89E-09	< 6.29E-09	< 1.4	< 2.57E-06	< 5.29E-09	< 5.50E-09
Benzo(k)fluoranthene		-	-	-	-	< 1.2	< 2.32E-06	< 4.75E-09	< 4.75E-09	< 1.6	< 2.90E-06	< 5.98E-09	< 6.39E-09	< 1.4	< 2.61E-06	< 5.37E-09	< 5.57E-09
Benzo(a)pyrene	50-32-8	-	-	-	-	< 1.3	< 2.48E-06	< 5.08E-09	< 5.08E-09	< 1.6	< 3.08E-06	< 6.37E-09	< 6.80E-09	< 1.5	< 2.78E-06	< 5.72E-09	< 5.94E-09
Indeno(1,2,3-cd)pyrene		-	-	-	-	< 1.2	< 2.39E-06	< 4.89E-09	< 4.89E-09	< 1.7	< 2.97E-06	< 6.13E-09	< 6.54E-09	< 1.4	< 2.68E-06	< 5.51E-09	< 5.72E-09
Dibenz(a,h)anthracene		-	-	-	-	< 1.6	< 3.10E-06	< 6.36E-09	< 6.37E-09	< 2.2	< 3.87E-06	< 7.99E-09	< 8.54E-09	< 1.9	< 3.49E-06	< 7.18E-09	< 7.45E-09
Benzo(g,h,i)perylene		-	-	-	-	< 1.4	< 2.73E-06	< 5.60E-09	< 5.61E-09	< 1.9	< 3.41E-06	< 7.04E-09	< 7.51E-09	< 1.7	< 3.07E-06	< 6.32E-09	< 6.56E-09
Total Detected		-	-	-	-	91.1	1.79E-04	3.67E-07	3.67E-07	61.1	1.06E-04	2.22E-07	2.37E-07	72.5	1.37E-04	2.81E-07	2.88E-07
Total with non-detects		-	-	-	-	< 324.7	< 6.39E-04	< 1.31E-06	< 1.31E-06	< 299.4	< 5.28E-04	< 1.09E-06	< 1.16E-06	< 312.1	< 5.83E-04	< 1.20E-06	< 1.24E-06

TRC

Table I.1-4

Extruder SBR Location B Speciated Semivolatiles

Compound	CAS Numbers	Run 1				Run 2				Run 3				Average (of Runs 2 and 3)			
		Conc. µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc. µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc. µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc. µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine		-	-	-	-	< 2.3	< 4.41E-06	< 9.04E-09	< 9.05E-09	< 2.3	< 4.06E-06	< 8.39E-09	< 8.96E-09	< 2.3	< 4.24E-06	< 8.72E-09	< 9.01E-09
Cumene	98-82-8	-	-	-	-	5.2	9.78E-06	2.00E-08	2.01E-08	3.2	5.74E-06	1.18E-08	1.26E-08	4.2	7.76E-06	1.59E-08	1.64E-08
Aniline	62-53-3	-	-	-	-	42.4	8.01E-05	1.64E-07	1.64E-07	63.8	1.14E-04	2.34E-07	2.50E-07	53.1	9.69E-05	1.99E-07	2.07E-07
Benzyl Chloride	100-44-7	-	-	-	-	< 0.6	< 1.04E-06	< 2.13E-09	< 2.14E-09	< 0.5	< 9.59E-07	< 1.98E-09	< 2.11E-09	< 0.5	< 1.00E-06	< 2.06E-09	< 2.13E-09
Acetophenone	98-86-2	-	-	-	-	2.4	4.54E-06	9.30E-09	9.31E-09	3.9	6.94E-06	1.43E-08	1.53E-08	3.1	5.74E-06	1.18E-08	1.23E-08
n-Nitrosomorpholine		-	-	-	-	< 1.6	< 3.05E-06	< 6.26E-09	< 6.26E-09	< 1.6	< 2.83E-06	< 5.83E-09	< 6.23E-09	< 1.6	< 2.94E-06	< 6.04E-09	< 6.25E-09
o-Toluidine	95-53-4	-	-	-	-	< 0.7	< 1.41E-06	< 2.89E-09	< 2.90E-09	< 0.7	< 1.31E-06	< 2.70E-09	< 2.88E-09	< 0.7	< 1.36E-06	< 2.80E-09	< 2.89E-09
1,2-Dibromo-3-chloropropane	96-12-8	-	-	-	-	< 2.1	< 3.90E-06	< 7.99E-09	< 8.00E-09	< 2.0	< 3.61E-06	< 7.45E-09	< 7.96E-09	< 2.0	< 3.76E-06	< 7.72E-09	< 7.98E-09
N,N-Diethylaniline	91-66-7	-	-	-	-	< 0.7	< 1.31E-06	< 2.68E-09	< 2.68E-09	< 0.7	< 1.20E-06	< 2.48E-09	< 2.65E-09	< 0.7	< 1.25E-06	< 2.58E-09	< 2.67E-09
N,N-Dimethylaniline	121-69-7	-	-	-	-	< 0.7	< 1.25E-06	< 2.57E-09	< 2.57E-09	< 0.6	< 1.12E-06	< 2.30E-09	< 2.46E-09	< 0.6	< 1.18E-06	< 2.44E-09	< 2.52E-09
o-Anisidine	104-94-9	-	-	-	-	< 1.3	< 2.49E-06	< 5.10E-09	< 5.11E-09	< 1.2	< 2.21E-06	< 4.57E-09	< 4.88E-09	< 1.3	< 2.35E-06	< 4.84E-09	< 4.99E-09
1,4-Phenylenediamine		-	-	-	-	< 3.4	< 6.50E-06	< 1.33E-08	< 1.33E-08	< 3.3	< 5.81E-06	< 1.20E-08	< 1.28E-08	< 3.3	< 6.15E-06	< 1.26E-08	< 1.31E-08
a,a,a-Trichlorotoluene		-	-	-	-	< 0.8	< 1.47E-06	< 3.00E-09	< 3.01E-09	< 0.7	< 1.31E-06	< 2.70E-09	< 2.88E-09	< 0.8	< 1.39E-06	< 2.85E-09	< 2.94E-09
Hydroquinone	123-31-9	-	-	-	-	< 1.9	< 3.58E-06	< 7.34E-09	< 7.35E-09	< 1.8	< 3.21E-06	< 6.62E-09	< 7.07E-09	< 1.8	< 3.40E-06	< 6.98E-09	< 7.21E-09
2-Chloroacetophenone	532-27-4	-	-	-	-	0.6	1.22E-06	2.50E-09	2.50E-09	1.0	1.73E-06	3.56E-09	3.61E-09	0.8	1.47E-06	3.03E-09	3.15E-09
Biphenyl	92-52-4	-	-	-	-	1.1	2.14E-06	4.38E-09	4.38E-09	1.2	2.16E-06	4.46E-09	4.77E-09	1.2	2.15E-06	4.42E-09	4.57E-09
Trifluralin	1582-09-8	-	-	-	-	< 2.2	< 4.17E-06	< 8.54E-09	< 8.55E-09	< 2.0	< 3.59E-06	< 7.42E-09	< 7.92E-09	< 2.1	< 3.88E-06	< 7.98E-09	< 8.23E-09
4-Aminobiphenyl	90-41-5	-	-	-	-	< 0.7	< 1.39E-06	< 2.86E-09	< 2.86E-09	< 0.7	< 1.27E-06	< 2.63E-09	< 2.81E-09	< 0.7	< 1.33E-06	< 2.74E-09	< 2.83E-09
Pentachloronitrobenzene	82-68-8	-	-	-	-	< 4.6	< 8.74E-06	< 1.79E-08	< 1.79E-08	< 4.5	< 8.00E-06	< 1.65E-08	< 1.76E-08	< 4.6	< 8.37E-06	< 1.72E-08	< 1.78E-08
4-Nitrobiphenyl	92-93-3	-	-	-	-	< 1.5	< 2.88E-06	< 5.90E-09	< 5.90E-09	< 1.5	< 2.63E-06	< 5.44E-09	< 5.81E-09	< 1.5	< 2.76E-06	< 5.67E-09	< 5.85E-09
Benzidine	92-87-5	-	-	-	-	< 2.0	< 3.74E-06	< 7.67E-09	< 7.68E-09	< 2.1	< 3.71E-06	< 7.67E-09	< 8.19E-09	< 2.0	< 3.73E-06	< 7.67E-09	< 7.93E-09
4,4'-Methylenedianiline	107-77-9	-	-	-	-	< 3.6	< 6.73E-06	< 1.38E-08	< 1.38E-08	< 3.8	< 6.70E-06	< 1.38E-08	< 1.48E-08	< 3.7	< 6.71E-06	< 1.38E-08	< 1.43E-08
Dimethylaminoazobenzene	60-11-7	-	-	-	-	< 2.3	< 4.29E-06	< 8.79E-09	< 8.80E-09	< 2.4	< 4.27E-06	< 8.82E-09	< 9.42E-09	< 2.3	< 4.28E-06	< 8.80E-09	< 9.11E-09
3,3'-Dimethylbenzidine	119-93-7	-	-	-	-	< 1.7	< 3.18E-06	< 6.51E-09	< 6.52E-09	< 1.8	< 3.16E-06	< 6.52E-09	< 6.96E-09	< 1.7	< 3.17E-06	< 6.51E-09	< 6.74E-09
3,3'-Dimethoxybenzidine	119-90-4	-	-	-	-	< 4.9	< 9.18E-06	< 1.88E-08	< 1.88E-08	< 5.1	< 9.12E-06	< 1.88E-08	< 2.01E-08	< 5.0	< 9.15E-06	< 1.88E-08	< 1.95E-08
Methylene bis-chloroaniline	101-14-4	-	-	-	-	< 5.4	< 1.02E-05	< 2.10E-08	< 2.10E-08	< 5.7	< 1.02E-05	< 2.10E-08	< 2.24E-08	< 5.6	< 1.02E-05	< 2.10E-08	< 2.17E-08
3-Furaldehyde		-	-	-	-	< 2.0	< 3.85E-06	< 7.89E-09	< 7.89E-09	< 2.0	< 3.56E-06	< 7.34E-09	< 7.84E-09	< 2.0	< 3.70E-06	< 7.61E-09	< 7.87E-09
2-Furaldehyde		-	-	-	-	0.8	1.47E-06	3.00E-09	3.01E-09	1.0	1.71E-06	3.53E-09	3.77E-09	0.9	1.59E-06	3.27E-09	3.39E-09
Cyclohexylamine	108-91-8	-	-	-	-	< 3.8	< 7.27E-06	< 1.49E-08	< 1.49E-08	< 3.8	< 6.73E-06	< 1.39E-08	< 1.48E-08	< 3.8	< 7.00E-06	< 1.44E-08	< 1.49E-08
N-Nitrosodiethylamine		-	-	-	-	< 2.3	< 4.40E-06	< 9.01E-09	< 9.02E-09	< 2.3	< 4.06E-06	< 8.39E-09	< 8.96E-09	< 2.3	< 4.23E-06	< 8.70E-09	< 8.99E-09
Cyclohexanone	108-94-1	-	-	-	-	2.5	4.70E-06	9.62E-09	9.63E-09	< 1.3	< 2.35E-06	< 4.86E-09	< 5.19E-09	< 1.9	< 3.53E-06	< 7.24E-09	< 7.41E-09
1,3-Cyclooctadiene	29965-97-7	-	-	-	-	< 1.2	< 2.21E-06	< 4.52E-09	< 4.53E-09	< 1.1	< 2.04E-06	< 4.21E-09	< 4.50E-09	< 1.2	< 2.12E-06	< 4.37E-09	< 4.51E-09
1,5-Cyclooctadiene		-	-	-	-	< 2.5	< 4.80E-06	< 9.84E-09	< 9.85E-09	< 2.5	< 4.43E-06	< 9.14E-09	< 9.76E-09	< 2.5	< 4.62E-06	< 9.49E-09	< 9.81E-09
Camphene	79-92-5	-	-	-	-	< 1.3	< 2.51E-06	< 5.14E-09	< 5.14E-09	< 1.3	< 2.32E-06	< 4.79E-09	< 5.11E-09	< 1.3	< 2.41E-06	< 4.96E-09	< 5.13E-09
Benzaldehyde	100-52-7	-	-	-	-	4.7	8.84E-06	1.81E-08	1.81E-08	10.2	1.82E-05	3.75E-08	4.00E-08	7.4	1.35E-05	2.78E-08	2.91E-08
Benzonitrile	100-47-0	-	-	-	-	1.9	3.51E-06	7.20E-09	7.21E-09	3.0	5.34E-06	1.10E-08	1.18E-08	2.4	4.42E-06	9.11E-09	9.49E-09

TRC

Table I.1-4

Extruder SBR Location B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average (of Runs 2 and 3) Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Isooctanol		-	-	-	-	< 4.5	< 6.46E-06	< 1.73E-08	< 1.73E-08	< 4.4	< 7.81E-06	< 1.61E-08	< 1.72E-08	< 4.4	< 8.13E-06	< 1.67E-08	< 1.73E-08
1,2,4-Trimethylbenzene	95-63-6	-	-	-	-	9.1	1.73E-05	3.55E-08	3.55E-08	12.8	2.28E-05	4.70E-08	5.02E-08	11.0	2.00E-05	4.12E-08	4.28E-08
3-Methylstyrene	98-83-9	-	-	-	-	< 0.8	< 1.45E-06	< 2.97E-09	< 2.97E-09	< 0.8	< 1.34E-06	< 2.77E-09	< 2.96E-09	< 0.8	< 1.40E-06	< 2.87E-09	< 2.96E-09
4-Methylstyrene		-	-	-	-	< 0.8	< 1.54E-06	< 3.15E-09	< 3.15E-09	< 0.8	< 1.43E-06	< 2.95E-09	< 3.15E-09	< 0.8	< 1.48E-06	< 3.05E-09	< 3.15E-09
4-Chlorostyrene	1331-28-8	-	-	-	-	< 0.9	< 1.75E-06	< 3.58E-09	< 3.59E-09	< 0.9	< 1.60E-06	< 3.31E-09	< 3.54E-09	< 0.9	< 1.68E-06	< 3.45E-09	< 3.56E-09
1-Dodecene	6842-15-5	-	-	-	-	< 4.8	< 9.13E-06	< 1.87E-08	< 1.87E-08	< 4.6	< 8.18E-06	< 1.69E-08	< 1.80E-08	< 4.7	< 8.65E-06	< 1.78E-08	< 1.84E-08
Phthalimide	85-41-6	-	-	-	-	< 2.0	< 3.78E-06	< 7.74E-09	< 7.75E-09	< 1.8	< 3.24E-06	< 6.70E-09	< 7.15E-09	< 1.9	< 3.51E-06	< 7.22E-09	< 7.45E-09
Diphenylamine		-	-	-	-	1.6	3.35E-06	6.87E-09	6.88E-09	2.0	3.51E-06	7.24E-09	7.73E-09	1.9	3.43E-06	7.05E-09	7.30E-09
Pyridine	694-59-7	-	-	-	-	< 1.6	< 3.00E-06	< 6.15E-09	< 6.16E-09	< 1.6	< 2.77E-06	< 5.72E-09	< 6.11E-09	< 1.6	< 2.89E-06	< 5.94E-09	< 6.13E-09
Phenol	108-95-2	-	-	-	-	1.0	1.98E-06	4.05E-09	4.06E-09	3.7	6.56E-06	1.35E-08	1.45E-08	2.4	4.27E-06	8.79E-09	9.26E-09
bis(2-Chloroethyl)ether	111-44-4	-	-	-	-	< 1.1	< 2.08E-06	< 4.27E-09	< 4.27E-09	< 1.1	< 1.92E-06	< 3.96E-09	< 4.23E-09	< 1.1	< 2.00E-06	< 4.11E-09	< 4.25E-09
2-Chlorophenol	95-57-8	-	-	-	-	< 0.9	< 1.71E-06	< 3.51E-09	< 3.51E-09	< 0.9	< 1.59E-06	< 3.28E-09	< 3.50E-09	< 0.9	< 1.65E-06	< 3.39E-09	< 3.51E-09
1,3-Dichlorobenzene	541-73-1	-	-	-	-	< 0.8	< 1.59E-06	< 3.26E-09	< 3.26E-09	< 0.8	< 1.46E-06	< 3.02E-09	< 3.23E-09	< 0.8	< 1.53E-06	< 3.14E-09	< 3.24E-09
1,4-Dichlorobenzene	106-46-7	-	-	-	-	0.8	1.54E-06	3.15E-09	3.15E-09	0.2	3.84E-07	7.92E-10	8.46E-10	0.5	9.60E-07	1.97E-09	2.00E-09
1,2-Dichlorobenzen	95-50-1	-	-	-	-	< 0.9	< 1.62E-06	< 3.33E-09	< 3.33E-09	< 0.8	< 1.50E-06	< 3.10E-09	< 3.31E-09	< 0.9	< 1.56E-06	< 3.21E-09	< 3.32E-09
2,2'-oxybis(1-Chloropropane)	540-54-5	-	-	-	-	< 1.1	< 2.08E-06	< 4.27E-09	< 4.27E-09	< 1.1	< 1.92E-06	< 3.96E-09	< 4.23E-09	< 1.1	< 2.00E-06	< 4.11E-09	< 4.25E-09
Benzyl alcohol	100-51-6	-	-	-	-	2.5	4.80E-06	9.84E-09	9.85E-09	4.2	7.53E-06	1.56E-08	1.66E-08	3.4	6.17E-06	1.27E-08	1.32E-08
2-Methylphenol		-	-	-	-	< 1.2	< 2.19E-06	< 4.49E-09	< 4.49E-09	< 1.1	< 2.02E-06	< 4.16E-09	< 4.46E-09	< 1.1	< 2.11E-06	< 4.33E-09	< 4.47E-09
3/4-Methylphenol		-	-	-	-	1.1	2.08E-06	4.27E-09	4.27E-09	0.4	7.15E-07	1.46E-09	1.58E-09	0.8	1.40E-06	2.87E-09	2.92E-09
N-Nitroso-di-n-propylamine		-	-	-	-	< 1.6	< 3.02E-06	< 6.19E-09	< 6.19E-09	< 1.6	< 2.79E-06	< 5.76E-09	< 6.15E-09	< 1.6	< 2.90E-06	< 5.97E-09	< 6.17E-09
Hexachloroethane	67-72-1	-	-	-	-	< 1.8	< 3.32E-06	< 6.80E-09	< 6.81E-09	< 1.7	< 3.07E-06	< 6.34E-09	< 6.77E-09	< 1.7	< 3.19E-06	< 6.57E-09	< 6.79E-09
Nitrobenzene	98-95-3	-	-	-	-	< 0.9	< 1.73E-06	< 3.55E-09	< 3.55E-09	< 0.9	< 1.55E-06	< 3.20E-09	< 3.42E-09	< 0.9	< 1.64E-06	< 3.37E-09	< 3.49E-09
Isophorone	78-59-1	-	-	-	-	10.3	1.94E-05	3.98E-08	3.98E-08	16.8	3.00E-05	6.19E-08	6.61E-08	13.6	2.47E-05	5.08E-08	5.29E-08
2-Nitrophenol	88-75-5	-	-	-	-	< 1.5	< 2.77E-06	< 5.68E-09	< 5.69E-09	< 1.4	< 2.48E-06	< 5.11E-09	< 5.46E-09	< 1.4	< 2.62E-06	< 5.40E-09	< 5.57E-09
2,4-Dimethylphenol	1300-71-6	-	-	-	-	< 1.1	< 2.07E-06	< 4.23E-09	< 4.24E-09	< 1.0	< 1.85E-06	< 3.82E-09	< 4.08E-09	< 1.1	< 1.96E-06	< 4.02E-09	< 4.16E-09
bis(2-Chloroethoxy)methane		-	-	-	-	< 0.9	< 1.64E-06	< 3.36E-09	< 3.37E-09	< 0.8	< 1.46E-06	< 3.02E-09	< 3.23E-09	< 0.8	< 1.55E-06	< 3.19E-09	< 3.30E-09
Benzoic acid	65-85-0	-	-	-	-	0.1	1.24E-07	2.53E-10	2.53E-10	20.9	3.73E-05	7.69E-08	8.21E-08	10.5	1.87E-05	3.86E-08	4.12E-08
2,4-Dichlorophenol	120-83-2	-	-	-	-	< 1.1	< 2.10E-06	< 4.30E-09	< 4.31E-09	< 1.1	< 1.88E-06	< 3.89E-09	< 4.15E-09	< 1.1	< 1.99E-06	< 4.10E-09	< 4.23E-09
1,2,4-Trichlorobenzene	120-83-2	-	-	-	-	< 1.0	< 1.82E-06	< 3.73E-09	< 3.73E-09	< 0.9	< 1.62E-06	< 3.35E-09	< 3.58E-09	< 0.9	< 1.72E-06	< 3.54E-09	< 3.65E-09
Naphthalene	91-20-3	-	-	-	-	9.2	1.75E-05	3.58E-08	3.58E-08	8.7	1.55E-05	3.21E-08	3.43E-08	9.0	1.65E-05	3.39E-08	3.50E-08
4-Chloroaniline		-	-	-	-	< 0.7	< 1.41E-06	< 2.89E-09	< 2.90E-09	< 0.7	< 1.27E-06	< 2.63E-09	< 2.81E-09	< 0.7	< 1.34E-06	< 2.76E-09	< 2.85E-09
Hexachlorobutadiene	87-68-3	-	-	-	-	< 1.6	< 3.11E-06	< 6.37E-09	< 6.37E-09	< 1.6	< 2.77E-06	< 5.72E-09	< 6.11E-09	< 1.6	< 2.94E-06	< 6.05E-09	< 6.24E-09
4-Chloro-3-methylphenol		-	-	-	-	< 1.3	< 2.42E-06	< 4.96E-09	< 4.96E-09	< 1.2	< 2.16E-06	< 4.46E-09	< 4.77E-09	< 1.2	< 2.29E-06	< 4.71E-09	< 4.86E-09
2-Methylnaphthalene		-	-	-	-	9.4	1.77E-05	3.63E-08	3.64E-08	12.1	2.15E-05	4.43E-08	4.74E-08	10.7	1.96E-05	4.03E-08	4.19E-08
Hexachlorocyclopentadiene	77-47-4	-	-	-	-	< 1.7	< 3.21E-06	< 6.58E-09	< 6.59E-09	< 1.6	< 2.77E-06	< 5.72E-09	< 6.11E-09	< 1.6	< 2.99E-06	< 6.15E-09	< 6.35E-09
2,4,6-Trichlorophenol	88-06-2	-	-	-	-	< 1.8	< 3.35E-06	< 6.87E-09	< 6.88E-09	< 1.6	< 2.90E-06	< 5.98E-09	< 6.38E-09	< 1.7	< 3.12E-06	< 6.42E-09	< 6.63E-09

TRC

Table L1-4

Extruder SBR Location B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average (of Runs 2 and 3) Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
2,4,5-Trichlorophenol	95-95-4	-	-	-	-	< 1.8	< 3.41E-06	< 6.98E-09	< 6.99E-09	< 1.6	< 2.93E-06	< 6.05E-09	< 6.48E-09	< 1.7	< 3.17E-06	< 6.51E-09	< 6.72E-09
2-Chloronaphthalene	1335-88-2	-	-	-	-	< 0.5	< 1.01E-06	< 2.06E-09	< 2.06E-09	< 0.5	< 8.55E-07	< 1.76E-09	< 1.88E-09	< 0.5	< 9.30E-07	< 1.91E-09	< 1.97E-09
2-Nitroaniline		-	-	-	-	< 1.9	< 3.67E-06	< 7.52E-09	< 7.53E-09	< 0.8	< 1.41E-06	< 2.92E-09	< 3.11E-09	< 1.4	< 2.54E-06	< 5.22E-09	< 5.32E-09
Dimethylphthalate	131-11-13	-	-	-	-	< 0.5	< 8.83E-07	< 1.81E-09	< 1.81E-09	< 0.4	< 7.67E-07	< 1.58E-09	< 1.69E-09	< 0.4	< 8.25E-07	< 1.70E-09	< 1.75E-09
2,6-Dinitrotoluene		-	-	-	-	< 1.9	< 3.62E-06	< 7.42E-09	< 7.42E-09	< 1.8	< 3.12E-06	< 6.44E-09	< 6.68E-09	< 1.8	< 3.37E-06	< 6.93E-09	< 7.15E-09
2,4-Dinitrotoluene	121-14-2	-	-	-	-	< 1.4	< 2.70E-06	< 5.53E-09	< 5.54E-09	< 1.3	< 2.32E-06	< 4.79E-09	< 5.11E-09	< 1.4	< 2.51E-06	< 5.16E-09	< 5.33E-09
Acenaphthylene		-	-	-	-	2.2	4.25E-06	8.72E-09	8.73E-09	2.6	4.66E-06	9.61E-09	1.03E-08	2.4	4.46E-06	9.16E-09	9.50E-09
3-Nitroaniline		-	-	-	-	< 1.8	< 3.44E-06	< 7.05E-09	< 7.06E-09	< 1.7	< 2.96E-06	< 6.12E-09	< 6.54E-09	< 1.7	< 3.20E-06	< 6.59E-09	< 6.80E-09
Acenaphthene		-	-	-	-	0.6	1.13E-06	2.32E-09	2.32E-09	< 0.5	< 9.42E-07	< 1.94E-09	< 2.08E-09	< 0.6	< 1.04E-06	< 2.13E-09	< 2.20E-09
2,4-Dinitrophenol		-	-	-	-	< 7.5	< 1.42E-05	< 2.91E-08	< 2.92E-08	< 6.9	< 1.22E-05	< 2.52E-08	< 2.69E-08	< 7.2	< 1.32E-05	< 2.72E-08	< 2.81E-08
4-Nitrophenol		-	-	-	-	< 7.2	< 1.37E-05	< 2.80E-08	< 2.81E-08	< 6.6	< 1.18E-05	< 2.43E-08	< 2.59E-08	< 6.9	< 1.27E-05	< 2.62E-08	< 2.70E-08
Dibenzofuran	38178-38-0	-	-	-	-	0.4	7.41E-07	1.52E-09	1.52E-09	0.4	6.98E-07	1.44E-09	1.54E-09	0.4	7.20E-07	1.48E-09	1.53E-09
Diethylphthalate	84-66-2	-	-	-	-	0.3	6.18E-07	1.27E-09	1.27E-09	0.6	1.05E-06	2.16E-09	2.31E-09	0.5	8.32E-07	1.71E-09	1.79E-09
4-Chlorophenyl-phenylether		-	-	-	-	< 1.1	< 2.03E-06	< 4.16E-09	< 4.16E-09	< 1.0	< 1.74E-06	< 3.60E-09	< 3.84E-09	< 1.0	< 1.89E-06	< 3.88E-09	< 4.00E-09
Fluorene	86-73-7	-	-	-	-	0.6	1.20E-06	2.46E-09	2.46E-09	0.7	1.20E-06	2.48E-09	2.65E-09	0.7	1.20E-06	2.47E-09	2.56E-09
4-Nitroaniline		-	-	-	-	< 2.1	< 4.04E-06	< 8.28E-09	< 8.29E-09	< 2.0	< 3.47E-06	< 7.16E-09	< 7.65E-09	< 2.0	< 3.76E-06	< 7.72E-09	< 7.97E-09
4,6-Dinitro-2-methylphenol	85-01-8	-	-	-	-	< 4.4	< 8.35E-06	< 1.71E-08	< 1.71E-08	< 4.3	< 7.66E-06	< 1.58E-08	< 1.69E-08	< 4.4	< 8.00E-06	< 1.65E-08	< 1.70E-08
4-Bromophenyl-phenyether	121-14-2	-	-	-	-	< 1.8	< 3.35E-06	< 6.87E-09	< 6.88E-09	< 1.7	< 3.07E-06	< 6.34E-09	< 6.77E-09	< 1.7	< 3.21E-06	< 6.60E-09	< 6.82E-09
Hexachlorobenzene	118-74-1	-	-	-	-	< 1.4	< 2.61E-06	< 5.35E-09	< 5.36E-09	< 1.3	< 2.39E-06	< 4.93E-09	< 5.27E-09	< 1.4	< 2.50E-06	< 5.14E-09	< 5.31E-09
Pentachlorophenol	87-86-5	-	-	-	-	< 4.3	< 8.21E-06	< 1.68E-08	< 1.68E-08	< 4.2	< 7.52E-06	< 1.55E-08	< 1.66E-08	< 4.3	< 7.86E-06	< 1.62E-08	< 1.67E-08
Phenanthrene	85-01-8	-	-	-	-	1.1	1.99E-06	4.09E-09	4.09E-09	1.4	2.46E-06	5.08E-09	5.42E-09	1.2	2.23E-06	4.58E-09	4.76E-09
Anthracene	120-12-7	-	-	-	-	< 0.4	< 8.12E-07	< 1.66E-09	< 1.67E-09	< 0.4	< 7.32E-07	< 1.51E-09	< 1.61E-09	< 0.4	< 7.72E-07	< 1.59E-09	< 1.64E-09
Di-n-butylphthalate		-	-	-	-	20.6	3.90E-05	8.00E-08	8.01E-08	< 5.5	< 9.84E-06	< 2.03E-08	< 2.17E-08	< 13.1	< 2.44E-05	< 5.01E-08	< 5.09E-08
Fluoranthene	206-44-0	-	-	-	-	0.0	5.30E-08	1.09E-10	1.09E-10	< 0.5	< 8.89E-07	< 1.84E-09	< 1.96E-09	< 0.3	< 4.71E-07	< 9.72E-10	< 1.03E-09
Pyrene	129-00-0	-	-	-	-	0.5	9.36E-07	1.92E-09	1.92E-09	0.9	1.57E-06	3.24E-09	3.46E-09	0.7	1.25E-06	2.58E-09	2.69E-09
Butylbenzylphthalate		-	-	-	-	1.3	2.38E-06	4.88E-09	4.89E-09	< 1.5	< 2.67E-06	< 5.51E-09	< 5.88E-09	< 1.4	< 2.53E-06	< 5.20E-09	< 5.39E-09
3,3'-Dichlorobenzidine	91-94-1	-	-	-	-	< 3.1	< 5.77E-06	< 1.18E-08	< 1.18E-08	< 3.2	< 5.74E-06	< 1.18E-08	< 1.26E-08	< 3.1	< 5.76E-06	< 1.18E-08	< 1.22E-08
bis(2-Ethylhexyl)phthalate		-	-	-	-	12.8	2.43E-05	4.98E-08	4.98E-08	15.4	2.75E-05	5.67E-08	6.05E-08	14.1	2.59E-05	5.32E-08	5.52E-08
Benzo(a)anthracene		-	-	-	-	< 1.0	< 1.87E-06	< 3.83E-09	< 3.84E-09	< 1.0	< 1.87E-06	< 3.85E-09	< 4.11E-09	< 1.0	< 1.87E-06	< 3.84E-09	< 3.98E-09
Chrysene	218-01-9	-	-	-	-	< 1.1	< 2.03E-06	< 4.16E-09	< 4.16E-09	< 1.1	< 2.02E-06	< 4.16E-09	< 4.46E-09	< 1.1	< 2.03E-06	< 4.17E-09	< 4.31E-09
Di-n-octylphthalate		-	-	-	-	< 0.8	< 1.52E-06	< 3.11E-09	< 3.11E-09	< 0.9	< 1.52E-06	< 3.13E-09	< 3.34E-09	< 0.8	< 1.52E-06	< 3.12E-09	< 3.23E-09
Benzo(b)fluoranthene		-	-	-	-	< 1.2	< 2.19E-06	< 4.49E-09	< 4.49E-09	< 1.2	< 2.20E-06	< 4.54E-09	< 4.84E-09	< 1.2	< 2.19E-06	< 4.51E-09	< 4.67E-09
Benzo(k)fluoranthene		-	-	-	-	< 1.2	< 2.24E-06	< 4.59E-09	< 4.60E-09	< 1.3	< 2.23E-06	< 4.61E-09	< 4.92E-09	< 1.2	< 2.24E-06	< 4.60E-09	< 4.76E-09
Benzo(a)pyrene	50-32-8	-	-	-	-	< 1.3	< 2.38E-06	< 4.88E-09	< 4.89E-09	< 1.3	< 2.37E-06	< 4.90E-09	< 5.23E-09	< 1.3	< 2.38E-06	< 4.89E-09	< 5.06E-09
Indeno(1,2,3-cd)pyrene		-	-	-	-	< 1.2	< 2.28E-06	< 4.67E-09	< 4.67E-09	< 1.3	< 2.28E-06	< 4.72E-09	< 5.04E-09	< 1.2	< 2.28E-06	< 4.69E-09	< 4.85E-09
Dibenz(a,h)anthracene		-	-	-	-	< 1.6	< 2.98E-06	< 6.11E-09	< 6.12E-09	< 1.7	< 2.96E-06	< 6.12E-09	< 6.54E-09	< 1.6	< 2.97E-06	< 6.12E-09	< 6.33E-09
Benzo(g,h,i)perylene		-	-	-	-	< 1.4	< 2.63E-06	< 5.39E-09	< 5.40E-09	< 1.5	< 2.62E-06	< 5.40E-09	< 5.77E-09	< 1.4	< 2.62E-06	< 5.39E-09	< 5.58E-09
Total Detected		-	-	-	-	147.3	2.79E-04	5.71E-07	5.72E-07	191.2	3.40E-04	7.02E-07	7.50E-07	156.8	2.86E-04	5.88E-07	6.12E-07
Total with non-detects		-	-	-	-	< 297.6	< 5.63E-04	< 1.15E-06	< 1.15E-06	< 346.4	< 6.18E-04	< 1.27E-06	< 1.36E-06	< 322.0	< 5.90E-04	< 1.21E-06	< 1.26E-06

TRC

Table I.1-5

Extruder Sidewall Locations A and B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine		< 12.94	< 2.38E-05	< 8.74E-08	< 4.83E-08	< 12.28	< 2.30E-05	< 7.82E-08	< 4.72E-08	< 13.75	< 2.62E-05	< 9.59E-08	< 5.37E-08	< 12.99	< 2.42E-05	< 8.72E-08	< 4.97E-08
Cumene	98-82-8	0.89	1.45E-06	5.39E-09	2.98E-09	1.26	2.07E-06	7.02E-09	4.24E-09	1.04	1.82E-06	6.65E-09	3.73E-09	1.06	1.78E-06	6.35E-09	3.65E-09
Aniline	62-53-3	73.65	1.21E-04	4.47E-07	2.47E-07	83.06	1.36E-04	4.63E-07	2.80E-07	76.45	1.33E-04	4.89E-07	2.74E-07	77.72	1.30E-04	4.66E-07	2.67E-07
Benzyl Chloride	100-44-7	< 1.88	< 3.43E-06	< 1.27E-08	< 7.04E-09	< 1.80	< 3.37E-06	< 1.14E-08	< 6.90E-09	< 2.00	< 3.82E-06	< 1.40E-08	< 7.83E-09	< 1.89	< 3.54E-06	< 1.27E-08	< 7.26E-09
Acetophenone	98-86-2	3.64	5.96E-06	2.21E-08	1.22E-08	4.28	7.03E-06	2.39E-08	1.44E-08	2.60	4.53E-06	1.66E-08	9.30E-09	3.51	5.84E-06	2.09E-08	1.20E-08
n-Nitrosomorpholine	100-44-7	< 5.58	< 1.02E-05	< 3.77E-08	< 2.09E-08	< 5.30	< 9.93E-06	< 3.38E-08	< 2.04E-08	< 5.95	< 1.13E-05	< 4.15E-08	< 2.32E-08	< 5.61	< 1.05E-05	< 3.77E-08	< 2.15E-08
o-Toluidine	100-44-7	< 2.72	< 4.96E-06	< 1.84E-08	< 1.02E-08	< 2.59	< 4.85E-06	< 1.65E-08	< 9.95E-09	< 2.90	< 5.53E-06	< 2.03E-08	< 1.13E-08	< 2.74	< 5.11E-06	< 1.84E-08	< 1.05E-08
1,2-Dibromo-3-chloropropane	100-44-7	< 7.19	< 1.31E-05	< 4.86E-08	< 2.68E-08	< 6.83	< 1.28E-05	< 4.35E-08	< 2.62E-08	< 7.65	< 1.46E-05	< 5.34E-08	< 2.99E-08	< 7.22	< 1.35E-05	< 4.85E-08	< 2.76E-08
N,N-Diethylaniline	100-44-7	< 2.50	< 4.55E-06	< 1.69E-08	< 9.34E-09	< 2.38	< 4.47E-06	< 1.52E-08	< 9.16E-09	< 2.68	< 5.10E-06	< 1.87E-08	< 1.05E-08	< 2.52	< 4.71E-06	< 1.69E-08	< 9.65E-09
N,N-Dimethylaniline	100-44-7	< 2.51	< 4.58E-06	< 1.70E-08	< 9.39E-09	0.19	3.18E-07	1.08E-09	6.52E-10	< 2.62	< 5.00E-06	< 1.83E-08	< 1.02E-08	< 1.78	< 3.30E-06	< 1.21E-08	< 6.76E-09
o-Anisidine	100-44-7	< 4.99	< 9.09E-06	< 3.37E-08	< 1.87E-08	< 4.70	< 8.81E-06	< 3.00E-08	< 1.81E-08	< 5.22	< 9.93E-06	< 3.64E-08	< 2.04E-08	< 4.97	< 9.28E-06	< 3.34E-08	< 1.90E-08
1,4-Phenylenediamine	100-44-7	< 7.27	< 1.32E-05	< 4.91E-08	< 2.72E-08	< 6.86	< 1.28E-05	< 4.37E-08	< 2.64E-08	< 7.61	< 1.45E-05	< 5.30E-08	< 2.97E-08	< 7.24	< 1.35E-05	< 4.86E-08	< 2.77E-08
α,α,α-Trichlorotoluene	100-44-7	< 3.02	< 5.50E-06	< 2.04E-08	< 1.13E-08	< 2.84	< 5.32E-06	< 1.81E-08	< 1.09E-08	< 3.16	< 6.01E-06	< 2.20E-08	< 1.23E-08	< 3.01	< 5.61E-06	< 2.02E-08	< 1.15E-08
Hydroquinone	100-44-7	< 6.07	< 1.11E-05	< 4.10E-08	< 2.27E-08	< 5.73	< 1.07E-05	< 3.65E-08	< 2.20E-08	< 6.34	< 1.21E-05	< 4.42E-08	< 2.48E-08	< 6.05	< 1.13E-05	< 4.06E-08	< 2.31E-08
2-Chloroacetophenone	532-27-4	< 2.23	< 4.07E-06	< 1.51E-08	< 8.34E-09	1.03	1.70E-06	5.76E-09	3.48E-09	< 2.33	< 4.44E-06	< 1.63E-08	< 9.12E-09	< 1.67	< 3.40E-06	< 1.24E-08	< 6.98E-09
Biphenyl	92-52-4	0.78	1.27E-06	4.73E-09	2.61E-09	0.75	1.24E-06	4.20E-09	2.54E-09	0.77	1.34E-06	4.91E-09	2.75E-09	0.77	1.28E-06	4.61E-09	2.63E-09
Trifluralin	1582-09-8	< 9.52	< 1.73E-05	< 6.43E-08	< 3.56E-08	< 9.06	< 1.71E-05	< 5.80E-08	< 3.50E-08	< 9.97	< 1.90E-05	< 6.95E-08	< 3.89E-08	< 9.52	< 1.78E-05	< 6.39E-08	< 3.65E-08
4-Aminobiphenyl	90-41-5	< 2.65	< 4.82E-06	< 1.79E-08	< 9.88E-09	< 2.49	< 4.69E-06	< 1.60E-08	< 9.63E-09	< 2.74	< 5.21E-06	< 1.91E-08	< 1.07E-08	< 2.63	< 4.90E-06	< 1.76E-08	< 1.01E-08
Pentachloronitrobenzene	82-68-8	< 15.80	< 2.88E-05	< 1.07E-07	< 5.90E-08	< 14.89	< 2.80E-05	< 9.52E-08	< 5.75E-08	< 16.37	< 3.11E-05	< 1.14E-07	< 6.38E-08	< 15.69	< 2.93E-05	< 1.05E-07	< 6.01E-08
4-Nitrobiphenyl	92-93-3	< 5.41	< 9.86E-06	< 3.66E-08	< 2.02E-08	< 5.10	< 9.59E-06	< 3.26E-08	< 1.97E-08	< 5.61	< 1.07E-05	< 3.90E-08	< 2.19E-08	< 5.37	< 1.00E-05	< 3.61E-08	< 2.06E-08
Benzidine	92-87-5	< 4.17	< 7.58E-06	< 2.81E-08	< 1.55E-08	< 3.85	< 7.26E-06	< 2.47E-08	< 1.49E-08	< 4.18	< 7.93E-06	< 2.91E-08	< 1.63E-08	< 4.06	< 7.59E-06	< 2.73E-08	< 1.56E-08
4,4'-Methylenedianiline	107-77-9	< 7.35	< 1.34E-05	< 4.96E-08	< 2.74E-08	< 6.78	< 1.28E-05	< 4.35E-08	< 2.62E-08	< 7.36	< 1.40E-05	< 5.12E-08	< 2.87E-08	< 7.16	< 1.34E-05	< 4.81E-08	< 2.74E-08
Dimethylaminoazobenzene	60-11-7	< 5.84	< 1.06E-05	< 3.94E-08	< 2.18E-08	< 5.39	< 1.02E-05	< 3.46E-08	< 2.09E-08	< 5.85	< 1.11E-05	< 4.06E-08	< 2.28E-08	< 5.69	< 1.06E-05	< 3.82E-08	< 2.18E-08
3,3'-Dimethylbenzidine	119-93-7	< 3.57	< 6.50E-06	< 2.41E-08	< 1.33E-08	< 3.29	< 6.21E-06	< 2.11E-08	< 1.27E-08	< 3.58	< 6.80E-06	< 2.49E-08	< 1.39E-08	< 3.48	< 6.50E-06	< 2.34E-08	< 1.33E-08
3,3'-Dimethoxybenzidine	119-90-4	< 8.39	< 1.53E-05	< 5.66E-08	< 3.13E-08	< 7.74	< 1.46E-05	< 4.96E-08	< 2.99E-08	< 8.39	< 1.59E-05	< 5.83E-08	< 3.27E-08	< 8.17	< 1.53E-05	< 5.49E-08	< 3.13E-08
Methylene bis-chloroaniline	101-14-4	< 10.84	< 1.97E-05	< 7.31E-08	< 4.04E-08	< 9.98	< 1.88E-05	< 6.40E-08	< 3.88E-08	< 10.84	< 2.06E-05	< 7.53E-08	< 4.22E-08	< 10.55	< 1.97E-05	< 7.08E-08	< 4.04E-08
3-Furaldehyde		< 9.98	< 1.82E-05	< 6.74E-08	< 3.73E-08	< 9.47	< 1.77E-05	< 6.03E-08	< 3.64E-08	< 10.61	< 2.02E-05	< 7.40E-08	< 4.14E-08	< 10.02	< 1.87E-05	< 6.72E-08	< 3.84E-08
2-Furaldehyde		< 8.76	< 1.59E-05	< 5.92E-08	< 3.27E-08	4.10	6.73E-06	2.29E-08	1.38E-08	< 9.32	< 1.76E-05	< 6.50E-08	< 3.64E-08	< 7.39	< 1.35E-05	< 4.90E-08	< 2.76E-08
Cyclohexylamine	108-91-8	< 5.66	< 1.03E-05	< 3.83E-08	< 2.11E-08	337.45	5.54E-04	1.88E-06	1.14E-06	522.57	9.12E-04	3.34E-06	1.87E-06	< 288.56	< 4.92E-04	< 1.75E-06	< 1.01E-06
N-Nitrosodiethylamine		< 9.66	< 1.76E-05	< 6.53E-08	< 3.61E-08	0.10	1.59E-07	5.40E-10	3.26E-10	< 10.29	< 1.96E-05	< 7.18E-08	< 4.02E-08	< 8.68	< 1.24E-05	< 4.59E-08	< 2.55E-08
Cyclohexanone	108-94-1	16.42	2.69E-05	9.98E-08	5.51E-08	20.69	3.39E-05	1.15E-07	6.96E-08	19.81	3.42E-05	1.25E-07	7.02E-08	18.91	3.17E-05	1.14E-07	6.50E-08
1,3-Cyclooctadiene	29965-97-7	< 4.75	< 8.65E-06	< 3.21E-08	< 1.78E-08	< 4.52	< 8.46E-06	< 2.88E-08	< 1.74E-08	< 5.06	< 9.63E-06	< 3.53E-08	< 1.98E-08	< 4.78	< 8.92E-06	< 3.21E-08	< 1.83E-08
1,5-Cyclooctadiene		< 10.82	< 1.97E-05	< 7.31E-08	< 4.04E-08	< 10.28	< 1.92E-05	< 6.54E-08	< 3.95E-08	< 11.50	< 2.19E-05	< 8.02E-08	< 4.49E-08	< 10.86	< 2.03E-05	< 7.29E-08	< 4.16E-08
Camphene	79-92-5	< 4.93	< 8.98E-06	< 3.33E-08	< 1.84E-08	< 4.69	< 8.79E-06	< 2.99E-08	< 1.80E-08	< 5.25	< 1.00E-05	< 3.66E-08	< 2.05E-08	< 4.96	< 9.26E-06	< 3.33E-08	< 1.90E-08
Benzaldehyde	100-52-7	3.29	6.57E-06	2.44E-08	1.35E-08	3.35	7.02E-06	2.39E-08	1.44E-08	2.14	4.36E-06	1.60E-08	8.95E-09	2.92	5.98E-06	2.14E-08	1.23E-08
Benzonitrile	100-47-0	< 1.89	< 3.45E-06	< 1.28E-08	< 7.07E-09	< 1.81	< 3.38E-06	< 1.15E-08	< 6.94E-09	< 2.02	< 3.84E-06	< 1.41E-08	< 7.87E-09	< 1.91	< 3.56E-06	< 1.28E-08	< 7.30E-09

TRC

Table I.1-5

Extruder Sidewall Locations A and B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Isooctanol		< 24.99	< 4.55E-05	< 1.69E-07	< 9.33E-08	< 23.76	< 4.45E-05	< 1.51E-07	< 9.13E-08	< 26.58	< 5.06E-05	< 1.85E-07	< 1.04E-07	< 25.11	< 4.69E-05	< 1.69E-07	< 9.61E-08
1,2,4-Trimethylbenzene	95-63-6	26.56	4.35E-05	1.61E-07	8.92E-08	32.14	5.27E-05	1.79E-07	1.08E-07	32.83	5.73E-05	2.10E-07	1.18E-07	30.51	5.12E-05	1.84E-07	1.05E-07
3-Methylstyrene	98-83-9	< 3.03	< 5.51E-06	< 2.04E-08	< 1.13E-08	< 2.87	< 5.38E-06	< 1.83E-08	< 1.10E-08	< 3.21	< 6.12E-06	< 2.24E-08	< 1.26E-08	< 3.04	< 5.67E-06	< 2.04E-08	< 1.16E-08
4-Methylstyrene		< 2.93	< 5.33E-06	< 1.98E-08	< 1.09E-08	< 2.79	< 5.22E-06	< 1.77E-08	< 1.07E-08	< 3.12	< 5.94E-06	< 2.18E-08	< 1.22E-08	< 2.94	< 5.50E-06	< 1.98E-08	< 1.13E-08
4-Chlorostyrene	1331-28-8	< 3.57	< 6.49E-06	< 2.41E-08	< 1.33E-08	< 3.39	< 6.34E-06	< 2.16E-08	< 1.30E-08	< 3.78	< 7.20E-06	< 2.64E-08	< 1.48E-08	< 3.58	< 6.68E-06	< 2.40E-08	< 1.37E-08
1-Dodecene	6842-15-5	< 20.02	< 3.65E-05	< 1.35E-07	< 7.48E-08	< 18.88	< 3.54E-05	< 1.20E-07	< 7.25E-08	< 20.94	< 3.99E-05	< 1.46E-07	< 8.18E-08	< 19.95	< 3.72E-05	< 1.34E-07	< 7.64E-08
Phthalimide	85-41-6	< 6.55	< 1.19E-05	< 4.43E-08	< 2.45E-08	< 6.23	< 1.17E-05	< 3.99E-08	< 2.41E-08	< 6.85	< 1.30E-05	< 4.78E-08	< 2.68E-08	< 6.54	< 1.22E-05	< 4.40E-08	< 2.51E-08
Diphenylamine		2.75	4.50E-06	1.67E-08	9.22E-09	2.45	4.03E-06	1.37E-08	8.26E-09	2.54	4.43E-06	1.62E-08	9.08E-09	2.58	4.32E-06	1.55E-08	8.85E-09
Pyridine	694-59-7	< 5.62	< 1.02E-05	< 3.79E-08	< 2.10E-08	< 5.34	< 9.99E-06	< 3.40E-08	< 2.05E-08	< 5.97	< 1.14E-05	< 4.16E-08	< 2.33E-08	< 5.64	< 1.05E-05	< 3.78E-08	< 2.16E-08
Phenol	108-95-2	32.49	5.32E-05	1.97E-07	1.09E-07	4.05	6.64E-06	2.26E-08	1.36E-08	21.97	3.83E-05	1.40E-07	7.87E-08	19.50	3.27E-05	1.20E-07	6.71E-08
bis(2-Chloroethyl)ether	111-44-4	< 3.98	< 7.25E-06	< 2.69E-08	< 1.49E-08	< 3.78	< 7.08E-06	< 2.41E-08	< 1.45E-08	< 4.23	< 8.06E-06	< 2.95E-08	< 1.65E-08	< 4.00	< 7.46E-06	< 2.68E-08	< 1.53E-08
2-Chlorophenol	95-57-8	< 3.14	< 5.72E-06	< 2.12E-08	< 1.17E-08	< 2.99	< 5.61E-06	< 1.91E-08	< 1.15E-08	< 3.35	< 6.39E-06	< 2.34E-08	< 1.31E-08	< 3.16	< 5.90E-06	< 2.12E-08	< 1.21E-08
1,3-Dichlorobenzene	541-73-1	< 3.05	< 5.55E-06	< 2.06E-08	< 1.14E-08	< 2.91	< 5.44E-06	< 1.85E-08	< 1.12E-08	< 3.25	< 6.18E-06	< 2.26E-08	< 1.27E-08	< 3.07	< 5.73E-06	< 2.06E-08	< 1.17E-08
1,4-Dichlorobenzene	106-46-7	< 2.86	< 5.21E-06	< 1.93E-08	< 1.07E-08	1.35	2.21E-06	7.50E-09	4.53E-09	1.41	2.47E-06	9.05E-09	5.07E-09	< 1.87	< 3.29E-06	< 1.20E-08	< 6.76E-09
1,2-Dichlorobenzen	95-50-1	< 3.08	< 5.62E-06	< 2.08E-08	< 1.15E-08	< 2.93	< 5.49E-06	< 1.86E-08	< 1.13E-08	< 3.27	< 6.22E-06	< 2.28E-08	< 1.28E-08	< 3.09	< 5.78E-06	< 2.08E-08	< 1.16E-08
2,2'-oxybis(1-Chloropropane)	540-54-5	< 3.25	< 5.92E-06	< 2.20E-08	< 1.21E-08	< 3.09	< 5.79E-06	< 1.97E-08	< 1.19E-08	< 3.46	< 6.59E-06	< 2.41E-08	< 1.35E-08	< 3.27	< 6.10E-06	< 2.19E-08	< 1.25E-08
Benzyl alcohol	100-51-6	3.88	6.35E-06	2.36E-08	1.30E-08	3.67	6.02E-06	2.05E-08	1.24E-08	4.01	7.00E-06	2.56E-08	1.44E-08	3.85	6.46E-06	2.32E-08	1.33E-08
2-Methylphenol		< 4.23	< 7.70E-06	< 2.86E-08	< 1.58E-08	< 4.02	< 7.52E-06	< 2.56E-08	< 1.54E-08	< 4.50	< 8.57E-06	< 3.14E-08	< 1.76E-08	< 4.25	< 7.93E-06	< 2.85E-08	< 1.63E-08
3/4-Methylphenol		< 4.00	< 7.29E-06	< 2.70E-08	< 1.49E-08	1.67	3.07E-06	1.04E-08	6.30E-09	< 4.25	< 8.10E-06	< 2.97E-08	< 1.66E-08	< 3.38	< 6.15E-06	< 2.24E-08	< 1.26E-08
N-Nitroso-di-n-propylamine		< 5.66	< 1.03E-05	< 3.83E-08	< 2.11E-08	< 5.37	< 1.01E-05	< 3.42E-08	< 2.06E-08	< 6.01	< 1.14E-05	< 4.19E-08	< 2.35E-08	< 5.68	< 1.06E-05	< 3.81E-08	< 2.17E-08
Hexachloroethane	67-72-1	< 6.14	< 1.12E-05	< 4.15E-08	< 2.29E-08	< 5.85	< 1.09E-05	< 3.72E-08	< 2.25E-08	< 6.54	< 1.24E-05	< 4.56E-08	< 2.55E-08	< 6.18	< 1.15E-05	< 4.14E-08	< 2.36E-08
Nitrobenzene	98-95-3	< 3.30	< 6.01E-06	< 2.23E-08	< 1.23E-08	< 3.10	< 5.81E-06	< 1.98E-08	< 1.19E-08	< 3.45	< 6.57E-06	< 2.41E-08	< 1.35E-08	< 3.28	< 6.13E-06	< 2.20E-08	< 1.26E-08
Isophorone	78-59-1	4.69	7.68E-06	2.85E-08	1.58E-08	5.06	6.34E-06	2.83E-08	1.71E-08	4.50	7.85E-06	2.88E-08	1.61E-08	4.76	7.96E-06	2.85E-08	1.63E-08
2-Nitrophenol	88-75-5	< 5.73	< 1.04E-05	< 3.87E-08	< 2.14E-08	< 5.41	< 1.01E-05	< 3.44E-08	< 2.08E-08	< 6.00	< 1.14E-05	< 4.18E-08	< 2.34E-08	< 5.71	< 1.07E-05	< 3.83E-08	< 2.19E-08
2,4-Dimethylphenol	1300-71-6	1.50	2.46E-06	9.13E-09	5.05E-09	< 3.87	< 7.24E-06	< 2.46E-08	< 1.48E-08	< 4.28	< 8.16E-06	< 2.99E-08	< 1.67E-08	< 3.22	< 5.95E-06	< 2.12E-08	< 1.22E-08
bis(2-Chloroethoxy)methane		< 3.30	< 6.01E-06	< 2.23E-08	< 1.23E-08	< 3.10	< 5.81E-06	< 1.98E-08	< 1.19E-08	< 3.45	< 6.57E-06	< 2.41E-08	< 1.35E-08	< 3.28	< 6.13E-06	< 2.20E-08	< 1.26E-08
Benzoic acid	65-85-0	19.10	3.13E-05	1.16E-07	6.42E-08	21.66	3.55E-05	1.21E-07	7.29E-08	4.03	7.04E-06	2.58E-08	1.44E-08	14.93	2.46E-05	8.75E-08	5.05E-08
2,4-Dichlorophenol	120-83-2	< 4.24	< 7.72E-06	< 2.87E-08	< 1.58E-08	< 4.00	< 7.48E-06	< 2.54E-08	< 1.54E-08	< 4.43	< 8.44E-06	< 3.09E-08	< 1.73E-08	< 4.22	< 7.88E-06	< 2.83E-08	< 1.62E-08
1,2,4-Trichlorobenzene	120-83-2	< 3.75	< 6.83E-06	< 2.53E-08	< 1.40E-08	< 3.54	< 6.63E-06	< 2.25E-08	< 1.36E-08	< 3.92	< 7.46E-06	< 2.73E-08	< 1.53E-08	< 3.74	< 6.97E-06	< 2.51E-08	< 1.43E-08
Naphthalene	91-20-3	13.55	2.22E-05	8.23E-08	4.55E-08	9.59	1.57E-05	5.35E-08	3.23E-08	9.99	1.74E-05	6.39E-08	3.58E-08	11.04	1.85E-05	6.66E-08	3.79E-08
4-Chloroaniline		< 2.83	< 5.15E-06	< 1.91E-08	< 1.06E-08	< 2.67	< 5.00E-06	< 1.70E-08	< 1.02E-08	< 3.75	< 7.24E-06	< 2.65E-08	< 1.49E-08	< 3.08	< 5.80E-06	< 2.09E-08	< 1.19E-08
Hexachlorobutadiene	87-68-3	< 6.30	< 1.15E-05	< 4.26E-08	< 2.36E-08	< 5.95	< 1.11E-05	< 3.79E-08	< 2.28E-08	< 6.60	< 1.26E-05	< 4.60E-08	< 2.58E-08	< 6.28	< 1.17E-05	< 4.22E-08	< 2.41E-08
4-Chloro-3-methylphenol		< 4.97	< 9.05E-06	< 3.36E-08	< 1.86E-08	< 4.68	< 8.77E-06	< 2.98E-08	< 1.80E-08	< 5.20	< 9.89E-06	< 3.62E-08	< 2.03E-08	< 4.95	< 9.24E-06	< 3.32E-08	< 1.89E-08
2-Methylnaphthalene		1.72	2.81E-06	1.04E-08	5.77E-09	1.63	2.67E-06	9.06E-09	5.47E-09	1.59	2.77E-06	1.01E-08	5.68E-09	1.64	2.75E-06	9.88E-09	5.64E-09
Hexachlorocyclopentadiene	77-47-4	< 7.01	< 1.28E-05	< 4.74E-08	< 2.62E-08	< 6.68	< 1.26E-05	< 4.27E-08	< 2.58E-08	< 7.34	< 1.40E-05	< 5.12E-08	< 2.87E-08	< 7.01	< 1.31E-05	< 4.71E-08	< 2.69E-08
2,4,6-Trichlorophenol	88-06-2	< 6.19	< 1.13E-05	< 4.18E-08	< 2.31E-08	< 5.88	< 1.11E-05	< 3.76E-08	< 2.27E-08	< 6.47	< 1.23E-05	< 4.52E-08	< 2.53E-08	< 6.18	< 1.16E-05	< 4.15E-08	< 2.37E-08

TRC

Table L1-5

Extruder Sidewall Locations A and B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
2,4,5-Trichlorophenol	95-95-4	< 6.50	< 1.18E-05	< 4.40E-08	< 2.43E-08	< 6.20	< 1.17E-05	< 3.96E-08	< 2.39E-08	< 6.81	< 1.30E-05	< 4.75E-08	< 2.66E-08	< 6.50	< 1.22E-05	< 4.37E-08	< 2.49E-08
2-Chloronaphthalene	1335-88-2	< 1.93	< 3.51E-06	< 1.30E-08	< 7.20E-09	< 1.83	< 3.44E-06	< 1.17E-08	< 7.06E-09	< 2.02	< 3.84E-06	< 1.41E-08	< 7.87E-09	< 1.92	< 3.60E-06	< 1.29E-08	< 7.38E-09
2-Nitroaniline		< 6.68	< 1.22E-05	< 4.52E-08	< 2.50E-08	< 6.36	< 1.20E-05	< 4.07E-08	< 2.46E-08	< 6.98	< 1.33E-05	< 4.87E-08	< 2.73E-08	< 6.67	< 1.25E-05	< 4.48E-08	< 2.56E-08
Dimethylphthalate	131-11-13	< 1.73	< 3.14E-06	< 1.17E-08	< 6.45E-09	< 1.66	< 3.11E-06	< 1.06E-08	< 6.39E-09	< 1.81	< 3.45E-06	< 1.26E-08	< 7.08E-09	< 1.73	< 3.24E-06	< 1.16E-08	< 6.64E-09
2,6-Dinitrotoluene		< 7.03	< 1.28E-05	< 4.75E-08	< 2.63E-08	< 6.70	< 1.26E-05	< 4.28E-08	< 2.59E-08	< 7.37	< 1.40E-05	< 5.15E-08	< 2.88E-08	< 7.03	< 1.32E-05	< 4.73E-08	< 2.70E-08
2,4-Dinitrotoluene	121-14-2	< 5.44	< 9.90E-06	< 3.68E-08	< 2.03E-08	< 5.17	< 9.73E-06	< 3.31E-08	< 2.00E-08	< 5.69	< 1.08E-05	< 3.97E-08	< 2.22E-08	< 5.43	< 1.02E-05	< 3.65E-08	< 2.08E-08
Acenaphthylene		0.85	1.40E-06	5.19E-09	2.87E-09	0.94	1.54E-06	5.22E-09	3.15E-09	1.02	1.78E-06	6.53E-09	3.65E-09	0.94	1.57E-06	5.65E-09	3.22E-09
3-Nitroaniline		< 6.78	< 1.24E-05	< 4.58E-08	< 2.53E-08	< 6.46	< 1.22E-05	< 4.13E-08	< 2.49E-08	< 7.11	< 1.35E-05	< 4.96E-08	< 2.78E-08	< 6.78	< 1.27E-05	< 4.56E-08	< 2.60E-08
Acenaphthene		0.27	4.42E-07	1.64E-09	9.08E-10	< 2.11	< 3.98E-06	< 1.35E-08	< 8.16E-09	1.07	1.87E-06	6.85E-09	3.84E-09	< 1.15	< 2.10E-06	< 7.34E-09	< 4.30E-09
2,4-Dinitrophenol		< 22.09	< 4.02E-05	< 1.49E-07	< 8.25E-08	< 21.04	< 3.96E-05	< 1.35E-07	< 8.12E-08	< 23.12	< 4.40E-05	< 1.61E-07	< 9.03E-08	< 22.08	< 4.13E-05	< 1.48E-07	< 8.47E-08
4-Nitrophenol		< 16.48	< 3.00E-05	< 1.11E-07	< 6.16E-08	< 15.70	< 2.95E-05	< 1.00E-07	< 6.06E-08	< 17.24	< 3.29E-05	< 1.20E-07	< 6.74E-08	< 16.47	< 3.08E-05	< 1.11E-07	< 6.32E-08
Dibenzofuran	38178-38-0	0.40	6.55E-07	2.43E-09	1.34E-09	0.65	1.06E-06	3.60E-09	2.17E-09	< 1.50	< 2.86E-06	< 1.05E-08	< 5.86E-09	< 0.85	< 1.52E-06	< 5.50E-09	< 3.13E-09
Diethylphthalate	84-66-2	2.27	3.72E-06	1.38E-08	7.62E-09	0.65	1.06E-06	3.60E-09	2.17E-09	0.35	6.17E-07	2.26E-09	1.27E-09	1.09	1.80E-06	6.55E-09	3.69E-09
4-Chlorophenyl-phenylether		< 4.10	< 7.47E-06	< 2.77E-08	< 1.53E-08	< 3.91	< 7.36E-06	< 2.50E-08	< 1.51E-08	< 4.29	< 8.17E-06	< 2.99E-08	< 1.68E-08	< 4.10	< 7.67E-06	< 2.76E-08	< 1.57E-08
Fluorene	86-73-7	0.51	8.32E-07	3.09E-09	1.71E-09	0.88	1.45E-06	4.92E-09	2.97E-09	0.41	7.23E-07	2.65E-09	1.48E-09	0.60	1.00E-06	3.55E-09	2.05E-09
4-Nitroaniline		< 7.61	< 1.39E-05	< 5.15E-08	< 2.84E-08	< 7.24	< 1.36E-05	< 4.63E-08	< 2.80E-08	< 7.96	< 1.52E-05	< 5.56E-08	< 3.11E-08	< 7.61	< 1.42E-05	< 5.11E-08	< 2.92E-08
4,6-Dinitro-2-methylphenol	85-01-8	< 14.86	< 2.71E-05	< 1.00E-07	< 5.55E-08	< 14.02	< 2.64E-05	< 8.96E-08	< 5.41E-08	< 15.42	< 2.93E-05	< 1.07E-07	< 6.01E-08	< 14.77	< 2.76E-05	< 9.91E-08	< 5.66E-08
4-Bromophenyl-phenyether	121-14-2	< 6.70	< 1.22E-05	< 4.53E-08	< 2.50E-08	< 6.32	< 1.19E-05	< 4.04E-08	< 2.44E-08	< 6.96	< 1.32E-05	< 4.84E-08	< 2.71E-08	< 6.66	< 1.24E-05	< 4.47E-08	< 2.55E-08
Hexachlorobenzene	118-74-1	< 5.15	< 9.37E-06	< 3.48E-08	< 1.92E-08	< 4.85	< 9.12E-06	< 3.10E-08	< 1.87E-08	< 5.34	< 1.02E-05	< 3.72E-08	< 2.08E-08	< 5.11	< 9.55E-06	< 3.43E-08	< 1.96E-08
Pentachlorophenol	87-86-5	< 12.54	< 2.28E-05	< 8.47E-08	< 4.68E-08	< 11.83	< 2.23E-05	< 7.56E-08	< 4.56E-08	< 13.01	< 2.47E-05	< 9.06E-08	< 5.07E-08	< 12.46	< 2.33E-05	< 8.37E-08	< 4.77E-08
Phenanthrene	85-01-8	1.45	2.37E-06	8.80E-09	4.86E-09	0.80	1.31E-06	4.44E-09	2.68E-09	0.86	1.50E-06	5.49E-09	3.08E-09	1.03	1.73E-06	6.24E-09	3.54E-09
Anthracene	120-12-7	< 1.59	< 2.90E-06	< 1.08E-08	< 5.95E-09	< 1.49	< 2.81E-06	< 9.54E-09	< 5.76E-09	< 1.64	< 3.11E-06	< 1.14E-08	< 6.38E-09	< 1.57	< 2.94E-06	< 1.06E-08	< 6.03E-09
Di-n-butylphthalate		11.35	1.86E-05	6.90E-08	3.81E-08	6.07	9.96E-06	3.39E-08	2.04E-08	22.33	3.90E-05	1.43E-07	8.00E-08	13.25	2.25E-05	8.19E-08	4.62E-08
Fluoranthene	206-44-0	< 1.82	< 3.31E-06	< 1.23E-08	< 6.78E-09	0.81	1.32E-06	4.50E-09	2.72E-09	0.89	1.55E-06	5.69E-09	3.18E-09	< 1.17	< 2.06E-06	< 7.49E-09	< 4.23E-09
Pyrene	129-00-0	0.68	1.12E-06	4.14E-09	2.29E-09	0.70	1.15E-06	3.90E-09	2.35E-09	1.07	1.87E-06	6.85E-09	3.84E-09	0.82	1.38E-06	4.96E-09	2.83E-09
Butylbenzylphthalate		1.46	2.92E-06	1.08E-08	6.00E-09	< 2.80	< 5.28E-06	< 1.80E-08	< 1.08E-08	< 3.04	< 5.76E-06	< 2.11E-08	< 1.18E-08	< 2.43	< 4.66E-06	< 1.66E-08	< 9.55E-09
3,3'-Dichlorobenzidine	91-94-1	< 5.86	< 1.07E-05	< 3.95E-08	< 2.19E-08	< 5.40	< 1.02E-05	< 3.47E-08	< 2.09E-08	< 5.87	< 1.11E-05	< 4.08E-08	< 2.28E-08	< 5.71	< 1.07E-05	< 3.83E-08	< 2.19E-08
bis(2-Ethylhexyl)phthalate		17.30	2.83E-05	1.05E-07	5.81E-08	16.07	2.64E-05	8.96E-08	5.41E-08	13.07	2.28E-05	8.36E-08	4.68E-08	15.48	2.58E-05	9.28E-08	5.30E-08
Benzo(a)anthracene		< 2.17	< 3.95E-06	< 1.47E-08	< 8.10E-09	< 2.01	< 3.78E-06	< 1.29E-08	< 7.76E-09	< 2.18	< 4.14E-06	< 1.52E-08	< 8.49E-09	< 2.12	< 3.96E-06	< 1.42E-08	< 8.12E-09
Chrysene	218-01-9	< 2.40	< 4.38E-06	< 1.62E-08	< 8.94E-09	< 2.22	< 4.20E-06	< 1.43E-08	< 8.61E-09	< 2.42	< 4.59E-06	< 1.68E-08	< 9.41E-09	< 2.35	< 4.38E-06	< 1.57E-08	< 8.99E-09
Di-n-octylphthalate		< 1.41	< 2.57E-06	< 9.52E-09	< 5.26E-09	0.03	5.30E-08	1.80E-10	1.09E-10	< 0.85	< 1.71E-06	< 6.25E-09	< 3.50E-09	< 0.77	< 1.44E-06	< 5.32E-09	< 2.96E-09
Benzo(b)fluoranthene		< 2.13	< 3.87E-06	< 1.44E-08	< 7.94E-09	< 2.01	< 3.79E-06	< 1.29E-08	< 7.77E-09	< 2.13	< 4.04E-06	< 1.48E-08	< 8.28E-09	< 2.09	< 3.90E-06	< 1.40E-08	< 8.00E-09
Benzo(k)fluoranthene		< 2.29	< 4.16E-06	< 1.54E-08	< 8.52E-09	< 2.16	< 4.08E-06	< 1.39E-08	< 8.37E-09	< 2.29	< 4.34E-06	< 1.59E-08	< 8.90E-09	< 2.24	< 4.19E-06	< 1.51E-08	< 8.60E-09
Benzo(a)pyrene	50-32-8	< 2.24	< 4.07E-06	< 1.51E-08	< 8.36E-09	< 2.10	< 3.97E-06	< 1.35E-08	< 8.15E-09	< 2.23	< 4.24E-06	< 1.55E-08	< 8.70E-09	< 2.19	< 4.10E-06	< 1.47E-08	< 8.40E-09
Indeno(1,2,3-cd)pyrene		< 2.39	< 4.34E-06	< 1.61E-08	< 8.90E-09	< 2.25	< 4.24E-06	< 1.44E-08	< 8.70E-09	< 2.37	< 4.50E-06	< 1.65E-08	< 9.24E-09	< 2.33	< 4.36E-06	< 1.57E-08	< 8.95E-09
Dibenz(a,h)anthracene		< 2.73	< 4.97E-06	< 1.84E-08	< 1.02E-08	< 2.58	< 4.88E-06	< 1.66E-08	< 1.00E-08	< 2.73	< 5.17E-06	< 1.89E-08	< 1.06E-08	< 2.68	< 5.01E-06	< 1.80E-08	< 1.03E-08
Benzo(g,h,i)perylene		< 2.30	< 4.17E-06	< 1.55E-08	< 8.56E-09	< 2.17	< 4.10E-06	< 1.39E-08	< 8.40E-09	< 2.29	< 4.34E-06	< 1.59E-08	< 8.90E-09	< 2.25	< 4.20E-06	< 1.51E-08	< 8.62E-09
Total Detected		241.46	3.97E-04	1.47E-06	8.14E-07	567.33	9.32E-04	3.17E-06	1.91E-06	749.12	1.31E-03	4.79E-06	2.68E-06	226.9173	3.81E-04	1.37E-06	7.81E-07
Total with non-detects		< 738.99	< 1.30E-03	< 4.83E-06	< 2.67E-06	< 1009.66	< 1.76E-03	< 5.99E-06	< 3.62E-06	< 1267.12	< 2.29E-03	< 8.40E-06	< 4.71E-06	< 1005.259	< 1.79E-03	< 6.41E-06	< 3.67E-06

TRC

Table L1-6

Extruder Sidewall Location A Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine		< 6.61	< 1.32E-05	< 4.90E-08	< 2.71E-08	< 6.22	< 1.31E-05	< 4.44E-08	< 2.68E-08	< 7.37	< 1.51E-05	< 5.51E-08	< 3.09E-08	< 6.74	< 1.38E-05	< 4.95E-08	< 2.82E-08
Cumene	98-82-8	1.10	2.20E-06	8.18E-09	4.52E-09	1.12	2.36E-06	8.01E-09	4.83E-09	< 1.33	< 2.72E-06	< 9.98E-09	< 5.59E-09	< 1.19	< 2.43E-06	< 8.72E-09	< 4.98E-09
Aniline	62-53-3	5.92	1.18E-05	4.38E-08	2.42E-08	4.75	9.96E-06	3.39E-08	2.04E-08	5.01	1.02E-05	3.75E-08	2.10E-08	5.22	1.07E-05	3.84E-08	2.19E-08
Benzyl Chloride	100-44-7	< 0.96	< 1.93E-06	< 7.15E-09	< 3.95E-09	< 0.91	< 1.92E-06	< 6.52E-09	< 3.93E-09	< 1.07	< 2.19E-06	< 8.03E-09	< 4.50E-09	< 0.98	< 2.01E-06	< 7.23E-09	< 4.13E-09
Acetophenone	98-86-2	3.08	6.15E-06	2.28E-08	1.26E-08	2.35	4.92E-06	1.67E-08	1.01E-08	0.92	1.87E-06	6.85E-09	3.84E-09	2.11	4.31E-06	1.55E-08	8.85E-09
n-Nitrosomorpholine	100-44-7	< 2.86	< 5.71E-06	< 2.12E-08	< 1.17E-08	< 2.69	< 5.64E-06	< 1.92E-08	< 1.16E-08	< 3.19	< 6.51E-06	< 2.38E-08	< 1.34E-08	< 2.91	< 5.95E-06	< 2.14E-08	< 1.22E-08
o-Toluidine	100-44-7	< 1.39	< 2.78E-06	< 1.03E-08	< 5.71E-09	< 1.31	< 2.75E-06	< 9.35E-09	< 5.64E-09	< 1.56	< 3.19E-06	< 1.17E-08	< 6.53E-09	< 1.42	< 2.91E-06	< 1.04E-08	< 5.96E-09
1,2-Dibromo-3-chloropropane	100-44-7	< 3.67	< 7.33E-06	< 2.72E-08	< 1.50E-08	< 3.46	< 7.26E-06	< 2.47E-08	< 1.49E-08	< 4.10	< 8.38E-06	< 3.07E-08	< 1.72E-08	< 3.75	< 7.66E-06	< 2.75E-08	< 1.57E-08
N,N-Diethylaniline	100-44-7	< 1.28	< 2.55E-06	< 9.47E-09	< 5.24E-09	< 1.21	< 2.54E-06	< 8.64E-09	< 5.21E-09	< 1.44	< 2.93E-06	< 1.07E-08	< 6.01E-09	< 1.31	< 2.68E-06	< 9.62E-09	< 5.49E-09
N,N-Dimethylaniline	100-44-7	< 1.29	< 2.58E-06	< 9.56E-09	< 5.28E-09	< 1.20	< 2.52E-06	< 8.56E-09	< 5.17E-09	< 1.40	< 2.86E-06	< 1.05E-08	< 5.87E-09	< 1.30	< 2.65E-06	< 9.53E-09	< 5.44E-09
o-Anisidine	100-44-7	< 2.57	< 5.13E-06	< 1.90E-08	< 1.05E-08	< 2.39	< 5.01E-06	< 1.70E-08	< 1.03E-08	< 2.78	< 5.68E-06	< 2.08E-08	< 1.16E-08	< 2.58	< 5.27E-06	< 1.90E-08	< 1.08E-08
1,4-Phenylenediamine	100-44-7	< 3.74	< 7.47E-06	< 2.77E-08	< 1.53E-08	< 3.48	< 7.30E-06	< 2.48E-08	< 1.50E-08	< 4.06	< 8.29E-06	< 3.04E-08	< 1.70E-08	< 3.76	< 7.69E-06	< 2.76E-08	< 1.58E-08
a,a,a-Trichlorotoluene	100-44-7	< 1.56	< 3.11E-06	< 1.15E-08	< 6.38E-09	< 1.44	< 3.03E-06	< 1.03E-08	< 6.21E-09	< 1.68	< 3.44E-06	< 1.26E-08	< 7.06E-09	< 1.56	< 3.19E-06	< 1.15E-08	< 6.55E-09
Hydroquinone	100-44-7	< 3.13	< 6.24E-06	< 2.32E-08	< 1.28E-08	< 2.91	< 6.10E-06	< 2.07E-08	< 1.25E-08	< 3.38	< 6.90E-06	< 2.53E-08	< 1.42E-08	< 3.14	< 6.41E-06	< 2.31E-08	< 1.32E-08
2-Chloroacetophenone	532-27-4	< 1.15	< 2.30E-06	< 8.52E-09	< 4.71E-09	< 1.07	< 2.24E-06	< 7.62E-09	< 4.60E-09	< 1.24	< 2.54E-06	< 9.30E-09	< 5.21E-09	< 1.15	< 2.36E-06	< 8.48E-09	< 4.84E-09
Biphenyl	92-52-4	< 0.99	< 1.97E-06	< 7.32E-09	< 4.05E-09	< 0.97	< 2.03E-06	< 6.91E-09	< 4.17E-09	< 1.09	< 2.22E-06	< 8.12E-09	< 4.55E-09	< 1.01	< 2.07E-06	< 7.45E-09	< 4.25E-09
Trifluralin	1582-09-8	< 4.88	< 9.75E-06	< 3.62E-08	< 2.00E-08	< 4.77	< 1.00E-05	< 3.40E-08	< 2.05E-08	< 5.38	< 1.09E-05	< 4.01E-08	< 2.24E-08	< 5.00	< 1.02E-05	< 3.68E-08	< 2.10E-08
4-Aminobiphenyl	90-41-5	< 1.35	< 2.69E-06	< 9.99E-09	< 5.52E-09	< 1.31	< 2.75E-06	< 9.35E-09	< 5.64E-09	< 1.44	< 2.93E-06	< 1.07E-08	< 6.01E-09	< 1.36	< 2.79E-06	< 1.00E-08	< 5.73E-09
Pentachloronitrobenzene	82-68-8	< 8.07	< 1.61E-05	< 5.98E-08	< 3.30E-08	< 7.82	< 1.64E-05	< 5.58E-08	< 3.37E-08	< 8.59	< 1.75E-05	< 6.43E-08	< 3.60E-08	< 8.16	< 1.67E-05	< 5.99E-08	< 3.42E-08
4-Nitrobiphenyl	92-93-3	< 2.77	< 5.52E-06	< 2.05E-08	< 1.13E-08	< 2.68	< 5.61E-06	< 1.91E-08	< 1.15E-08	< 2.94	< 6.00E-06	< 2.20E-08	< 1.23E-08	< 2.79	< 5.71E-06	< 2.05E-08	< 1.17E-08
Benzidine	92-87-5	< 2.10	< 4.20E-06	< 1.56E-08	< 8.61E-09	< 2.07	< 4.34E-06	< 1.48E-08	< 8.91E-09	< 2.15	< 4.39E-06	< 1.61E-08	< 9.00E-09	< 2.11	< 4.31E-06	< 1.55E-08	< 8.84E-09
4,4'-Methylenedianiline	107-77-9	< 3.71	< 7.40E-06	< 2.75E-08	< 1.52E-08	< 3.65	< 7.65E-06	< 2.60E-08	< 1.57E-08	< 3.79	< 7.73E-06	< 2.83E-08	< 1.59E-08	< 3.71	< 7.59E-06	< 2.73E-08	< 1.56E-08
Dimethylaminoazobenzene	60-11-7	< 2.94	< 5.87E-06	< 2.18E-08	< 1.20E-08	< 2.91	< 6.10E-06	< 2.07E-08	< 1.25E-08	< 3.01	< 6.14E-06	< 2.25E-08	< 1.26E-08	< 2.95	< 6.04E-06	< 2.17E-08	< 1.24E-08
3,3'-Dimethylbenzidine	119-93-7	< 1.80	< 3.60E-06	< 1.33E-08	< 7.38E-09	< 1.77	< 3.72E-06	< 1.26E-08	< 7.63E-09	< 1.84	< 3.76E-06	< 1.38E-08	< 7.72E-09	< 1.81	< 3.69E-06	< 1.33E-08	< 7.58E-09
3,3'-Dimethoxybenzidine	*119-90-4*	*< 4.23*	*< 8.45E-06*	*< 3.13E-08*	*< 1.73E-08*	*< 4.18*	*< 8.73E-06*	*< 2.97E-08*	*< 1.79E-08*	*< 4.32*	*< 8.82E-06*	*< 3.23E-08*	*< 1.81E-08*	*< 4.24*	*< 8.67E-06*	*< 3.11E-08*	*< 1.78E-08*
Methylene bis-chloroaniline	101-14-4	< 5.46	< 1.09E-05	< 4.05E-08	< 2.24E-08	< 5.38	< 1.13E-05	< 3.83E-08	< 2.31E-08	< 5.57	< 1.14E-05	< 4.17E-08	< 2.33E-08	< 5.47	< 1.12E-05	< 4.02E-08	< 2.29E-08
3-Furaldehyde		< 5.10	< 1.02E-05	< 3.78E-08	< 2.09E-08	< 4.80	< 1.01E-05	< 3.42E-08	< 2.07E-08	< 5.69	< 1.16E-05	< 4.25E-08	< 2.38E-08	< 5.20	< 1.06E-05	< 3.82E-08	< 2.18E-08
2-Furaldehyde		< 4.47	< 8.93E-06	< 3.31E-08	< 1.83E-08	< 4.22	< 8.85E-06	< 3.01E-08	< 1.82E-08	< 5.00	< 1.02E-05	< 3.74E-08	< 2.09E-08	< 4.56	< 9.33E-06	< 3.35E-08	< 1.91E-08
Cyclohexylamine	108-91-8	< 2.89	< 5.78E-06	< 2.14E-08	< 1.19E-08	< 2.72	< 5.71E-06	< 1.94E-08	< 1.17E-08	< 3.22	< 6.58E-06	< 2.41E-08	< 1.35E-08	< 2.95	< 6.02E-06	< 2.16E-08	< 1.24E-08
N-Nitrosodiethylamine		< 4.94	< 9.86E-06	< 3.66E-08	< 2.02E-08	< 4.66	< 9.77E-06	< 3.32E-08	< 2.00E-08	< 5.52	< 1.13E-05	< 4.13E-08	< 2.31E-08	< 5.04	< 1.03E-05	< 3.70E-08	< 2.11E-08
Cyclohexanone	108-94-1	< 2.60	< 5.20E-06	< 1.93E-08	< 1.07E-08	2.16	4.53E-06	1.54E-08	9.29E-09	1.71	3.49E-06	1.28E-08	7.15E-09	< 2.16	< 4.40E-06	< 1.58E-08	< 9.03E-09
1,3-Cyclooctadiene	29965-97-7	< 2.43	< 4.85E-06	< 1.80E-08	< 9.95E-09	< 2.29	< 4.61E-06	< 1.63E-08	< 9.86E-09	< 2.71	< 5.54E-06	< 2.03E-08	< 1.14E-08	< 2.48	< 5.07E-06	< 1.82E-08	< 1.04E-08
1,5-Cyclooctadiene		< 5.53	< 1.10E-05	< 4.10E-08	< 2.27E-08	< 5.21	< 1.09E-05	< 3.72E-08	< 2.24E-08	< 6.16	< 1.26E-05	< 4.61E-08	< 2.58E-08	< 5.63	< 1.15E-05	< 4.14E-08	< 2.36E-08
Camphene	79-92-5	< 2.52	< 5.04E-06	< 1.87E-08	< 1.03E-08	< 2.38	< 4.99E-06	< 1.70E-08	< 1.02E-08	< 2.82	< 5.75E-06	< 2.11E-08	< 1.18E-08	< 2.57	< 5.26E-06	< 1.89E-08	< 1.08E-08
Benzaldehyde	100-52-7	3.29	6.57E-06	2.44E-08	1.35E-08	3.35	7.02E-06	2.39E-08	1.44E-08	2.14	4.36E-06	1.60E-08	8.95E-09	2.92	5.98E-06	2.14E-08	1.23E-08
Benzonitrile	100-47-0	< 0.96	< 1.93E-06	< 7.15E-09	< 3.95E-09	< 0.91	< 1.92E-06	< 6.52E-09	< 3.93E-09	< 1.09	< 2.22E-06	< 8.12E-09	< 4.55E-09	< 0.99	< 2.02E-06	< 7.26E-09	< 4.14E-09

TRC

Table 1.1-6

Extruder Sidewall Location A Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Isooctanol		< 12.77	< 2.55E-05	< 9.48E-08	< 5.23E-08	< 12.04	< 2.53E-05	< 8.59E-08	< 5.18E-08	< 14.26	< 2.91E-05	< 1.07E-07	< 5.97E-08	< 13.02	< 2.66E-05	< 9.57E-08	< 5.46E-08
1,2,4-Trimethylbenzene	95-63-6	4.38	8.75E-06	3.25E-08	1.79E-08	4.22	8.85E-06	3.01E-08	1.82E-08	3.04	6.21E-06	2.27E-08	1.27E-08	3.88	7.94E-06	2.84E-08	1.63E-08
3-Methylstyrene	98-83-9	< 1.55	< 3.09E-06	< 1.15E-08	< 6.33E-09	< 1.45	< 3.05E-06	< 1.04E-08	< 6.26E-09	< 1.72	< 3.51E-06	< 1.29E-08	< 7.20E-09	< 1.57	< 3.21E-06	< 1.16E-08	< 6.59E-09
4-Methylstyrene		< 1.50	< 2.99E-06	< 1.11E-08	< 6.14E-09	< 1.41	< 2.96E-06	< 1.01E-08	< 6.07E-09	< 1.67	< 3.42E-06	< 1.25E-08	< 7.01E-09	< 1.53	< 3.12E-06	< 1.12E-08	< 6.40E-09
4-Chlorostyrene	1331-28-8	< 1.82	< 3.64E-06	< 1.35E-08	< 7.47E-09	< 1.72	< 3.60E-06	< 1.23E-08	< 7.39E-09	< 2.02	< 4.13E-06	< 1.51E-08	< 8.48E-09	< 1.86	< 3.79E-06	< 1.36E-08	< 7.78E-09
1-Dodecene	6842-15-5	< 10.31	< 2.06E-05	< 7.64E-08	< 4.22E-08	< 9.58	< 2.01E-05	< 6.83E-08	< 4.12E-08	< 11.16	< 2.28E-05	< 8.35E-08	< 4.67E-08	< 10.35	< 2.12E-05	< 7.61E-08	< 4.34E-08
Phthalimide	85-41-6	< 3.36	< 6.71E-06	< 2.49E-08	< 1.38E-08	< 3.28	< 6.69E-06	< 2.34E-08	< 1.41E-08	< 3.69	< 7.53E-06	< 2.76E-08	< 1.54E-08	< 3.44	< 7.04E-06	< 2.53E-08	< 1.44E-08
Diphenylamine		< 1.32	< 2.65E-06	< 9.82E-09	< 5.43E-09	< 1.29	< 2.70E-06	< 9.19E-09	< 5.55E-09	< 1.45	< 2.95E-06	< 1.08E-08	< 6.06E-09	< 1.35	< 2.77E-06	< 9.94E-09	< 5.68E-09
Pyridine	694-59-7	< 2.87	< 5.73E-06	< 2.13E-08	< 1.18E-08	< 2.70	< 5.66E-06	< 1.92E-08	< 1.16E-08	< 3.20	< 6.53E-06	< 2.39E-08	< 1.34E-08	< 2.92	< 5.97E-06	< 2.15E-08	< 1.23E-08
Phenol	108-95-2	24.03	4.80E-05	1.78E-07	9.84E-08	29.49	6.19E-05	2.10E-07	1.27E-07	24.65	5.03E-05	1.84E-07	1.03E-07	26.06	5.34E-05	1.91E-07	1.10E-07
bis(2-Chloroethyl)ether	111-44-4	< 2.03	< 4.06E-06	< 1.51E-08	< 8.33E-09	< 1.92	< 4.02E-06	< 1.37E-08	< 8.25E-09	< 2.27	< 4.64E-06	< 1.70E-08	< 9.52E-09	< 2.07	< 4.24E-06	< 1.52E-08	< 8.70E-09
2-Chlorophenol	95-57-8	< 1.60	< 3.20E-06	< 1.19E-08	< 6.57E-09	< 1.52	< 3.19E-06	< 1.08E-08	< 6.54E-09	< 1.80	< 3.67E-06	< 1.34E-08	< 7.53E-09	< 1.64	< 3.35E-06	< 1.21E-08	< 6.88E-09
1,3-Dichlorobenzene	541-73-1	< 1.56	< 3.11E-06	< 1.15E-08	< 6.38E-09	< 1.48	< 3.10E-06	< 1.05E-08	< 6.35E-09	< 1.74	< 3.55E-06	< 1.30E-08	< 7.29E-09	< 1.59	< 3.25E-06	< 1.17E-08	< 6.67E-09
1,4-Dichlorobenzene	106-46-7	< 1.46	< 2.92E-06	< 1.08E-08	< 6.00E-09	< 1.38	< 2.89E-06	< 9.82E-09	< 5.92E-09	< 1.63	< 3.32E-06	< 1.22E-08	< 6.82E-09	< 1.49	< 3.05E-06	< 1.09E-08	< 6.25E-09
1,2-Dichlorobenzen	95-50-1	< 1.58	< 3.16E-06	< 1.17E-08	< 6.47E-09	< 1.49	< 3.12E-06	< 1.06E-08	< 6.40E-09	< 1.75	< 3.58E-06	< 1.31E-08	< 7.34E-09	< 1.61	< 3.28E-06	< 1.18E-08	< 6.74E-09
2,2'-oxybis(1-Chloropropane)	540-54-5	< 1.66	< 3.32E-06	< 1.23E-08	< 6.81E-09	< 1.56	< 3.28E-06	< 1.12E-08	< 6.73E-09	< 1.85	< 3.79E-06	< 1.39E-08	< 7.77E-09	< 1.69	< 3.46E-06	< 1.24E-08	< 7.10E-09
Benzyl alcohol	100-51-6	< 3.21	< 6.40E-06	< 2.36E-08	< 1.31E-08	1.19	2.50E-06	8.48E-09	5.12E-09	2.04	4.16E-06	1.52E-08	8.52E-09	< 2.14	< 4.35E-06	< 1.58E-08	< 8.93E-09
2-Methylphenol		< 2.16	< 4.32E-06	< 1.60E-08	< 8.85E-09	< 2.04	< 4.27E-06	< 1.45E-08	< 8.77E-09	< 2.41	< 4.92E-06	< 1.80E-08	< 1.01E-08	< 2.20	< 4.50E-06	< 1.62E-08	< 9.24E-09
3/4-Methylphenol		< 2.05	< 4.08E-06	< 1.52E-08	< 8.38E-09	< 1.93	< 4.04E-06	< 1.37E-08	< 8.29E-09	< 2.28	< 4.66E-06	< 1.71E-08	< 9.56E-09	< 2.09	< 4.26E-06	< 1.53E-08	< 8.75E-09
N-Nitroso-di-n-propylamine		< 2.89	< 5.78E-06	< 2.14E-08	< 1.19E-08	< 2.72	< 5.71E-06	< 1.94E-08	< 1.17E-08	< 3.22	< 6.58E-06	< 2.41E-08	< 1.35E-08	< 2.95	< 6.02E-06	< 2.16E-08	< 1.24E-08
Hexachloroethane	67-72-1	< 3.14	< 6.26E-06	< 2.32E-08	< 1.29E-08	< 2.96	< 6.22E-06	< 2.11E-08	< 1.27E-08	< 3.51	< 7.16E-06	< 2.62E-08	< 1.47E-08	< 3.20	< 6.55E-06	< 2.35E-08	< 1.34E-08
Nitrobenzene	98-95-3	< 1.70	< 3.39E-06	< 1.26E-08	< 6.95E-09	< 1.58	< 3.30E-06	< 1.12E-08	< 6.78E-09	< 1.84	< 3.76E-06	< 1.38E-08	< 7.72E-09	< 1.70	< 3.48E-06	< 1.25E-08	< 7.15E-09
Isophorone	78-59-1	0.88	1.76E-06	6.54E-09	3.62E-09	0.66	1.39E-06	4.71E-09	2.84E-09	< 1.02	< 2.08E-06	< 7.61E-09	< 4.26E-09	< 0.85	< 1.74E-06	< 6.29E-09	< 3.57E-09
2-Nitrophenol	88-75-5	< 2.95	< 5.89E-06	< 2.19E-08	< 1.21E-08	< 2.74	< 5.75E-06	< 1.96E-08	< 1.18E-08	< 3.20	< 6.53E-06	< 2.39E-08	< 1.34E-08	< 2.96	< 6.06E-06	< 2.18E-08	< 1.24E-08
2,4-Dimethylphenol	1300-71-6	< 2.12	< 4.22E-06	< 1.57E-08	< 8.66E-09	< 1.96	< 4.11E-06	< 1.40E-08	< 8.44E-09	< 2.28	< 4.66E-06	< 1.71E-08	< 9.56E-09	< 2.12	< 4.33E-06	< 1.56E-08	< 8.89E-09
bis(2-Chloroethoxy)methane		< 1.70	< 3.39E-06	< 1.26E-08	< 6.95E-09	< 1.58	< 3.30E-06	< 1.12E-08	< 6.78E-09	< 1.84	< 3.76E-06	< 1.38E-08	< 7.72E-09	< 1.70	< 3.48E-06	< 1.25E-08	< 7.15E-09
Benzoic acid	65-85-0	32.47	6.48E-05	2.41E-07	1.33E-07	31.98	6.71E-05	2.28E-07	1.38E-07	3.89	7.94E-06	2.91E-08	1.63E-08	22.78	4.66E-05	1.66E-07	9.56E-08
2,4-Dichlorophenol	120-83-2	< 2.18	< 4.36E-06	< 1.62E-08	< 8.95E-09	< 2.03	< 4.25E-06	< 1.45E-08	< 8.72E-09	< 2.36	< 4.82E-06	< 1.77E-08	< 9.90E-09	< 2.19	< 4.48E-06	< 1.61E-08	< 9.19E-09
1,2,4-Trichlorobenzene	120-83-2	< 1.93	< 3.85E-06	< 1.43E-08	< 7.90E-09	< 1.80	< 3.77E-06	< 1.28E-08	< 7.73E-09	< 2.09	< 4.27E-06	< 1.56E-08	< 8.76E-09	< 1.94	< 3.96E-06	< 1.42E-08	< 8.13E-09
Naphthalene	91-20-3	8.68	1.73E-05	6.43E-08	3.56E-08	5.11	1.07E-05	3.64E-08	2.20E-08	2.87	5.86E-06	2.15E-08	1.20E-08	5.55	1.13E-05	4.07E-08	2.32E-08
4-Chloroaniline		< 1.45	< 2.90E-06	< 1.08E-08	< 5.95E-09	< 1.35	< 2.84E-06	< 9.66E-09	< 5.83E-09	< 2.36	< 4.82E-06	< 1.77E-08	< 9.90E-09	< 1.72	< 3.52E-06	< 1.27E-08	< 7.23E-09
Hexachlorobutadiene	87-68-3	< 3.24	< 6.47E-06	< 2.40E-08	< 1.33E-08	< 3.02	< 6.33E-06	< 2.15E-08	< 1.30E-08	< 3.52	< 7.18E-06	< 2.63E-08	< 1.47E-08	< 3.26	< 6.66E-06	< 2.39E-08	< 1.37E-08
4-Chloro-3-methylphenol		< 2.56	< 5.10E-06	< 1.89E-08	< 1.05E-08	< 2.38	< 4.99E-06	< 1.70E-08	< 1.02E-08	< 2.77	< 5.66E-06	< 2.07E-08	< 1.16E-08	< 2.57	< 5.25E-06	< 1.89E-08	< 1.08E-08
2-Methylnaphthalene		0.59	1.18E-06	4.39E-09	2.43E-09	0.43	9.01E-07	3.06E-09	1.85E-09	0.36	7.39E-07	2.71E-09	1.52E-09	0.46	9.41E-07	3.39E-09	1.93E-09
Hexachlorocyclopentadiene	77-47-4	< 3.59	< 7.17E-06	< 2.66E-08	< 1.47E-08	< 3.51	< 7.37E-06	< 2.51E-08	< 1.51E-08	< 3.95	< 8.06E-06	< 2.95E-08	< 1.65E-08	< 3.68	< 7.53E-06	< 2.71E-08	< 1.55E-08
2,4,6-Trichlorophenol	88-06-2	< 3.17	< 6.33E-06	< 2.35E-08	< 1.30E-08	< 3.10	< 6.49E-06	< 2.21E-08	< 1.33E-08	< 3.48	< 7.11E-06	< 2.60E-08	< 1.46E-08	< 3.25	< 6.65E-06	< 2.39E-08	< 1.36E-08

TRC

Table L1-6

Extruder Sidewall Location A Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
2,4,5-Trichlorophenol	95-95-4	< 3.34	< 6.66E-06	< 2.47E-08	< 1.37E-08	< 3.26	< 6.64E-06	< 2.33E-08	< 1.40E-08	< 3.66	< 7.48E-06	< 2.74E-08	< 1.53E-08	< 3.42	< 6.99E-06	< 2.51E-08	< 1.43E-08
2-Chloronaphthalene	1335-88-2	< 0.99	< 1.97E-06	< 7.32E-09	< 4.05E-09	< 0.96	< 2.01E-06	< 6.83E-09	< 4.12E-09	< 1.09	< 2.22E-06	< 8.12E-09	< 4.55E-09	< 1.01	< 2.07E-06	< 7.42E-09	< 4.24E-09
2-Nitroaniline		< 3.43	< 6.84E-06	< 2.54E-08	< 1.40E-08	< 3.35	< 7.02E-06	< 2.39E-08	< 1.44E-08	< 3.75	< 7.66E-06	< 2.81E-08	< 1.57E-08	< 3.51	< 7.18E-06	< 2.56E-08	< 1.47E-08
Dimethylphthalate	131-11-13	< 0.88	< 1.76E-06	< 6.54E-09	< 3.62E-09	< 0.87	< 1.83E-06	< 6.21E-09	< 3.74E-09	< 0.97	< 1.99E-06	< 7.27E-09	< 4.07E-09	< 0.91	< 1.86E-06	< 6.67E-09	< 3.81E-09
2,6-Dinitrotoluene		< 3.60	< 7.19E-06	< 2.67E-08	< 1.48E-08	< 3.52	< 7.39E-06	< 2.51E-08	< 1.52E-08	< 3.97	< 8.10E-06	< 2.97E-08	< 1.66E-08	< 3.70	< 7.56E-06	< 2.72E-08	< 1.55E-08
2,4-Dinitrotoluene	121-14-2	< 2.79	< 5.57E-06	< 2.07E-08	< 1.14E-08	< 2.72	< 5.71E-06	< 1.94E-08	< 1.17E-08	< 3.06	< 6.26E-06	< 2.29E-08	< 1.28E-08	< 2.86	< 5.84E-06	< 2.10E-08	< 1.20E-08
Acenaphthylene		< 0.63	< 1.25E-06	< 4.65E-09	< 2.57E-09	< 0.62	< 1.29E-06	< 4.40E-09	< 2.65E-09	< 0.69	< 1.41E-06	< 5.16E-09	< 2.89E-09	< 0.64	< 1.32E-06	< 4.74E-09	< 2.70E-09
3-Nitroaniline		< 3.47	< 6.94E-06	< 2.57E-08	< 1.42E-08	< 3.40	< 7.14E-06	< 2.43E-08	< 1.46E-08	< 3.82	< 7.80E-06	< 2.86E-08	< 1.60E-08	< 3.57	< 7.29E-06	< 2.62E-08	< 1.50E-08
Acenaphthene		< 1.14	< 2.27E-06	< 8.44E-09	< 4.66E-09	< 1.11	< 2.33E-06	< 7.93E-09	< 4.79E-09	< 1.26	< 2.56E-06	< 9.39E-09	< 5.26E-09	< 1.17	< 2.39E-06	< 8.59E-09	< 4.90E-09
2,4-Dinitrophenol		< 11.32	< 2.26E-05	< 8.39E-08	< 4.64E-08	< 11.07	< 2.32E-05	< 7.89E-08	< 4.76E-08	< 12.44	< 2.54E-05	< 9.30E-08	< 5.21E-08	< 11.61	< 2.37E-05	< 8.53E-08	< 4.87E-08
4-Nitrophenol		< 8.45	< 1.69E-05	< 6.26E-08	< 3.46E-08	< 8.26	< 1.73E-05	< 5.89E-08	< 3.55E-08	< 9.28	< 1.90E-05	< 6.94E-08	< 3.89E-08	< 8.66	< 1.77E-05	< 6.36E-08	< 3.63E-08
Dibenzofuran	38178-38-0	< 0.74	< 1.48E-06	< 5.51E-09	< 3.05E-09	< 0.73	< 1.53E-06	< 5.18E-09	< 3.13E-09	< 0.80	< 1.64E-06	< 6.00E-09	< 3.36E-09	< 0.76	< 1.55E-06	< 5.57E-09	< 3.18E-09
Diethylphthalate	84-66-2	1.81	3.62E-06	1.34E-08	7.42E-09	1.74	3.65E-06	1.24E-08	7.49E-09	0.59	1.20E-06	4.40E-09	2.46E-09	1.38	2.82E-06	1.01E-08	5.79E-09
4-Chlorophenyl-phenylether		< 2.10	< 4.20E-06	< 1.56E-08	< 8.61E-09	< 2.06	< 4.32E-06	< 1.47E-08	< 8.86E-09	< 2.31	< 4.71E-06	< 1.72E-08	< 9.66E-09	< 2.16	< 4.41E-06	< 1.58E-08	< 9.05E-09
Fluorene	86-73-7	< 1.01	< 2.02E-06	< 7.49E-09	< 4.14E-09	< 0.98	< 2.06E-06	< 6.99E-09	< 4.22E-09	< 1.11	< 2.26E-06	< 8.29E-09	< 4.64E-09	< 1.03	< 2.11E-06	< 7.59E-09	< 4.33E-09
4-Nitroaniline		< 3.90	< 7.80E-06	< 2.89E-08	< 1.60E-08	< 3.81	< 7.99E-06	< 2.72E-08	< 1.64E-08	< 4.29	< 8.75E-06	< 3.20E-08	< 1.79E-08	< 4.00	< 8.18E-06	< 2.94E-08	< 1.68E-08
4,6-Dinitro-2-methylphenol	85-01-8	< 7.59	< 1.52E-05	< 5.62E-08	< 3.11E-08	< 7.36	< 1.54E-05	< 5.25E-08	< 3.17E-08	< 8.10	< 1.65E-05	< 6.05E-08	< 3.39E-08	< 7.68	< 1.57E-05	< 5.64E-08	< 3.22E-08
4-Bromophenyl-phenyether	121-14-2	< 3.43	< 6.84E-06	< 2.54E-08	< 1.40E-08	< 3.32	< 6.95E-06	< 2.36E-08	< 1.43E-08	< 3.65	< 7.46E-06	< 2.73E-08	< 1.53E-08	< 3.47	< 7.09E-06	< 2.55E-08	< 1.45E-08
Hexachlorobenzene	118-74-1	< 2.63	< 5.24E-06	< 1.95E-08	< 1.08E-08	< 2.54	< 5.34E-06	< 1.81E-08	< 1.09E-08	< 2.80	< 5.72E-06	< 2.10E-08	< 1.17E-08	< 2.66	< 5.44E-06	< 1.95E-08	< 1.11E-08
Pentachlorophenol	87-86-5	< 6.40	< 1.28E-05	< 4.74E-08	< 2.62E-08	< 6.21	< 1.30E-05	< 4.43E-08	< 2.67E-08	< 6.83	< 1.39E-05	< 5.11E-08	< 2.86E-08	< 6.48	< 1.33E-05	< 4.76E-08	< 2.72E-08
Phenanthrene	85-01-8	0.67	1.35E-06	4.99E-09	2.76E-09	< 0.76	< 1.59E-06	< 5.42E-09	< 3.27E-09	< 0.84	< 1.71E-06	< 6.26E-09	< 3.50E-09	< 0.76	< 1.55E-06	< 5.56E-09	< 3.18E-09
Anthracene	120-12-7	< 0.81	< 1.62E-06	< 6.03E-09	< 3.33E-09	< 0.76	< 1.64E-06	< 5.58E-09	< 3.37E-09	< 0.86	< 1.75E-06	< 6.43E-09	< 3.60E-09	< 0.82	< 1.67E-06	< 6.01E-09	< 3.43E-09
Di-n-butylphthalate		20.27	4.05E-05	1.50E-07	8.30E-08	11.01	2.31E-05	7.85E-08	4.74E-08	11.31	2.31E-05	8.46E-08	4.74E-08	14.20	2.89E-05	1.04E-07	5.93E-08
Fluoranthene	206-44-0	< 0.93	< 1.86E-06	< 6.89E-09	< 3.81E-09	< 0.89	< 1.87E-06	< 6.36E-09	< 3.84E-09	< 0.98	< 2.01E-06	< 7.36E-09	< 4.12E-09	< 0.94	< 1.91E-06	< 6.87E-09	< 3.92E-09
Pyrene	129-00-0	< 0.91	< 1.81E-06	< 6.72E-09	< 3.71E-09	< 0.89	< 1.87E-06	< 6.36E-09	< 3.84E-09	< 0.93	< 1.89E-06	< 6.93E-09	< 3.88E-09	< 0.91	< 1.86E-06	< 6.67E-09	< 3.81E-09
Butylbenzylphthalate		1.46	2.92E-06	1.08E-08	6.00E-09	< 1.51	< 3.17E-06	< 1.08E-08	< 6.49E-09	< 1.56	< 3.19E-06	< 1.17E-08	< 6.53E-09	< 1.51	< 3.09E-06	< 1.11E-08	< 6.34E-09
3,3'-Dichlorobenzidine	91-94-1	< 2.95	< 5.89E-06	< 2.19E-08	< 1.21E-08	< 2.91	< 6.10E-06	< 2.07E-08	< 1.25E-08	< 3.02	< 6.16E-06	< 2.26E-08	< 1.26E-08	< 2.96	< 6.05E-06	< 2.17E-08	< 1.24E-08
bis(2-Ethylhexyl)phthalate		16.29	3.25E-05	1.21E-07	6.67E-08	8.54	1.79E-05	6.09E-08	3.67E-08	16.17	3.30E-05	1.21E-07	6.77E-08	13.67	2.78E-05	1.01E-07	5.71E-08
Benzo(a)anthracene		< 1.09	< 2.18E-06	< 8.09E-09	< 4.47E-09	< 1.08	< 2.26E-06	< 7.70E-09	< 4.64E-09	< 1.12	< 2.29E-06	< 8.37E-09	< 4.69E-09	< 1.10	< 2.24E-06	< 8.05E-09	< 4.60E-09
Chrysene	218-01-9	< 1.21	< 2.41E-06	< 8.95E-09	< 4.95E-09	< 1.20	< 2.52E-06	< 8.56E-09	< 5.17E-09	< 1.24	< 2.54E-06	< 9.30E-09	< 5.21E-09	< 1.22	< 2.49E-06	< 8.94E-09	< 5.11E-09
Di-n-octylphthalate		< 0.71	< 1.42E-06	< 5.25E-09	< 2.90E-09	< 0.73	< 1.53E-06	< 5.18E-09	< 3.13E-09	< 0.72	< 1.48E-06	< 5.41E-09	< 3.03E-09	< 0.72	< 1.47E-06	< 5.28E-09	< 3.02E-09
Benzo(b)fluoranthene		< 1.07	< 2.13E-06	< 7.92E-09	< 4.38E-09	< 1.09	< 2.29E-06	< 7.78E-09	< 4.69E-09	< 1.10	< 2.24E-06	< 8.20E-09	< 4.59E-09	< 1.09	< 2.22E-06	< 7.97E-09	< 4.55E-09
Benzo(k)fluoranthene		< 1.15	< 2.30E-06	< 8.52E-09	< 4.71E-09	< 1.18	< 2.47E-06	< 8.40E-09	< 5.07E-09	< 1.18	< 2.40E-06	< 8.79E-09	< 4.92E-09	< 1.17	< 2.39E-06	< 8.57E-09	< 4.90E-09
Benzo(a)pyrene	50-32-8	< 1.13	< 2.25E-06	< 8.35E-09	< 4.62E-09	< 1.15	< 2.40E-06	< 8.17E-09	< 4.93E-09	< 1.15	< 2.35E-06	< 8.62E-09	< 4.83E-09	< 1.14	< 2.34E-06	< 8.38E-09	< 4.79E-09
Indeno(1,2,3-cd)pyrene		< 1.20	< 2.39E-06	< 8.87E-09	< 4.90E-09	< 1.22	< 2.56E-06	< 8.72E-09	< 5.26E-09	< 1.22	< 2.49E-06	< 9.13E-09	< 5.11E-09	< 1.21	< 2.48E-06	< 8.91E-09	< 5.09E-09
Dibenz(a,h)anthracene		< 1.37	< 2.74E-06	< 1.02E-08	< 5.62E-09	< 1.41	< 2.96E-06	< 1.01E-08	< 6.07E-09	< 1.40	< 2.86E-06	< 1.05E-08	< 5.87E-09	< 1.39	< 2.85E-06	< 1.02E-08	< 5.85E-09
Benzo(g,h,i)perylene		< 1.15	< 2.30E-06	< 8.52E-09	< 4.71E-09	< 1.16	< 2.47E-06	< 8.40E-09	< 5.07E-09	< 1.18	< 2.40E-06	< 8.79E-09	< 4.92E-09	< 1.17	< 2.39E-06	< 8.57E-09	< 4.90E-09
Total Detected		124.94	2.49E-04	9.26E-07	5.12E-07	108.09	2.27E-04	7.71E-07	4.65E-07	74.68	1.52E-04	5.58E-07	3.13E-07	98.23498	2.01E-04	7.20E-07	4.12E-07
Total with non-detects		< 393.86	< 7.86E-04	< 2.92E-06	< 1.61E-06	< 382.69	< 7.61E-04	< 2.59E-06	< 1.56E-06	< 366.32	< 7.48E-04	< 2.74E-06	< 1.53E-06	< 374.2925	< 7.65E-04	< 2.75E-06	< 1.57E-06

TRC

Table L1-7

Extruder Sidewall Location B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine		< 6.32	< 1.04E-05	< 3.84E-08	< 2.12E-08	< 6.06	< 9.94E-06	< 3.38E-08	< 2.04E-08	< 6.38	< 1.11E-05	< 4.08E-08	< 2.28E-08	< 6.25	< 1.05E-05	< 3.77E-08	< 2.15E-08
Cumene	98-82-8	0.89	1.45E-06	5.39E-09	2.98E-09	1.26	2.07E-06	7.02E-09	4.24E-09	1.04	1.82E-06	6.65E-09	3.73E-09	1.06	1.78E-06	6.35E-09	3.65E-09
Aniline	62-53-3	73.65	1.21E-04	4.47E-07	2.47E-07	83.06	1.36E-04	4.63E-07	2.80E-07	76.45	1.33E-04	4.89E-07	2.74E-07	77.72	1.30E-04	4.66E-07	2.67E-07
Benzyl Chloride	100-44-7	< 0.92	< 1.50E-06	< 5.58E-09	< 3.09E-09	< 0.88	< 1.45E-06	< 4.92E-09	< 2.97E-09	< 0.93	< 1.62E-06	< 5.94E-09	< 3.33E-09	< 0.91	< 1.53E-06	< 5.48E-09	< 3.13E-09
Acetophenone	98-86-2	3.64	5.96E-06	2.21E-08	1.22E-08	4.28	7.03E-06	2.39E-08	1.44E-08	2.60	4.53E-06	1.66E-08	9.30E-09	3.51	5.84E-06	2.09E-08	1.20E-08
n-Nitrosomorpholine	100-44-7	< 2.72	< 4.46E-06	< 1.65E-08	< 9.15E-09	< 2.62	< 4.29E-06	< 1.46E-08	< 8.80E-09	< 2.76	< 4.82E-06	< 1.76E-08	< 9.88E-09	< 2.70	< 4.52E-06	< 1.63E-08	< 9.28E-09
o-Toluidine	100-44-7	< 1.33	< 2.18E-06	< 8.08E-09	< 4.47E-09	< 1.28	< 2.10E-06	< 7.14E-09	< 4.31E-09	< 1.34	< 2.35E-06	< 8.59E-09	< 4.81E-09	< 1.32	< 2.21E-06	< 7.94E-09	< 4.53E-09
1,2-Dibromo-3-chloropropane	100-44-7	< 3.51	< 5.75E-06	< 2.13E-08	< 1.18E-08	< 3.37	< 5.53E-06	< 1.88E-08	< 1.13E-08	< 3.55	< 6.19E-06	< 2.27E-08	< 1.27E-08	< 3.48	< 5.82E-06	< 2.09E-08	< 1.19E-08
N,N-Diethylaniline	100-44-7	< 1.22	< 2.00E-06	< 7.42E-09	< 4.10E-09	< 1.17	< 1.92E-06	< 6.54E-09	< 3.95E-09	< 1.24	< 2.17E-06	< 7.95E-09	< 4.45E-09	< 1.21	< 2.03E-06	< 7.30E-09	< 4.17E-09
N,N-Dimethylaniline	100-44-7	< 1.22	< 2.00E-06	< 7.42E-09	< 4.10E-09	0.19	3.18E-07	1.08E-09	6.52E-10	< 1.22	< 2.13E-06	< 7.82E-09	< 4.38E-09	< 0.88	< 1.48E-06	< 5.44E-09	< 3.04E-09
o-Anisidine	100-44-7	< 2.42	< 3.96E-06	< 1.47E-08	< 8.13E-09	< 2.31	< 3.80E-06	< 1.29E-08	< 7.79E-09	< 2.44	< 4.25E-06	< 1.56E-08	< 8.72E-09	< 2.39	< 4.00E-06	< 1.44E-08	< 8.21E-09
1,4-Phenylenediamine	100-44-7	< 3.52	< 5.77E-06	< 2.14E-08	< 1.18E-08	< 3.38	< 5.55E-06	< 1.89E-08	< 1.14E-08	< 3.55	< 6.19E-06	< 2.27E-08	< 1.27E-08	< 3.48	< 5.84E-06	< 2.10E-08	< 1.20E-08
a,a,a-Trichlorotoluene	100-44-7	< 1.46	< 2.39E-06	< 8.87E-09	< 4.90E-09	< 1.40	< 2.30E-06	< 7.80E-09	< 4.71E-09	< 1.48	< 2.58E-06	< 9.43E-09	< 5.28E-09	< 1.44	< 2.42E-06	< 8.70E-09	< 4.98E-09
Hydroquinone	100-44-7	< 2.94	< 4.81E-06	< 1.79E-08	< 9.88E-09	< 2.82	< 4.63E-06	< 1.57E-08	< 9.49E-09	< 2.96	< 5.17E-06	< 1.89E-08	< 1.06E-08	< 2.91	< 4.87E-06	< 1.75E-08	< 9.99E-09
2-Chloroacetophenone	532-27-4	< 1.08	< 1.77E-06	< 6.57E-09	< 3.63E-09	1.03	1.70E-06	5.76E-09	3.48E-09	< 1.09	< 1.90E-06	< 6.95E-09	< 3.91E-09	< 1.07	< 1.79E-06	< 6.44E-09	< 3.67E-09
Biphenyl	92-52-4	0.78	1.27E-06	4.73E-09	2.61E-09	0.75	1.24E-06	4.20E-09	2.54E-09	0.77	1.34E-06	4.91E-09	2.75E-09	0.77	1.28E-06	4.61E-09	2.63E-09
Trifluralin	1582-09-8	< 4.64	< 7.59E-06	< 2.82E-08	< 1.56E-08	< 4.29	< 7.05E-06	< 2.40E-08	< 1.45E-08	< 4.61	< 8.04E-06	< 2.95E-08	< 1.65E-08	< 4.51	< 7.56E-06	< 2.72E-08	< 1.55E-08
4-Aminobiphenyl	90-41-5	< 1.30	< 2.12E-06	< 7.88E-09	< 4.36E-09	< 1.18	< 1.94E-06	< 6.60E-09	< 3.98E-09	< 1.30	< 2.28E-06	< 8.33E-09	< 4.67E-09	< 1.26	< 2.11E-06	< 7.61E-09	< 4.34E-09
Pentachloronitrobenzene	82-68-8	< 7.73	< 1.27E-05	< 4.70E-08	< 2.60E-08	< 7.07	< 1.16E-05	< 3.94E-08	< 2.38E-08	< 7.78	< 1.36E-05	< 4.97E-08	< 2.79E-08	< 7.53	< 1.26E-05	< 4.54E-08	< 2.59E-08
4-Nitrobiphenyl	92-93-3	< 2.65	< 4.34E-06	< 1.61E-08	< 8.89E-09	< 2.42	< 3.97E-06	< 1.35E-08	< 8.15E-09	< 2.67	< 4.68E-06	< 1.71E-08	< 9.55E-09	< 2.58	< 4.32E-06	< 1.56E-08	< 8.87E-09
Benzidine	92-87-5	< 2.07	< 3.38E-06	< 1.25E-08	< 6.93E-09	< 1.78	< 2.91E-06	< 9.91E-09	< 5.98E-09	< 2.03	< 3.55E-06	< 1.30E-08	< 7.27E-09	< 1.96	< 3.28E-06	< 1.18E-08	< 6.73E-09
4,4'-Methylenedianiline	107-77-9	< 3.64	< 5.96E-06	< 2.21E-08	< 1.22E-08	< 3.13	< 5.14E-06	< 1.75E-08	< 1.05E-08	< 3.58	< 6.24E-06	< 2.29E-08	< 1.28E-08	< 3.45	< 5.78E-06	< 2.08E-08	< 1.19E-08
Dimethylaminoazobenzene	60-11-7	< 2.90	< 4.74E-06	< 1.76E-08	< 9.73E-09	< 2.49	< 4.08E-06	< 1.39E-08	< 8.37E-09	< 2.84	< 4.96E-06	< 1.82E-08	< 1.02E-08	< 2.74	< 4.59E-06	< 1.65E-08	< 9.42E-09
3,3'-Dimethylbenzidine	119-93-7	< 1.77	< 2.90E-06	< 1.08E-08	< 5.95E-09	< 1.52	< 2.49E-06	< 8.46E-09	< 5.11E-09	< 1.74	< 3.03E-06	< 1.11E-08	< 6.22E-09	< 1.68	< 2.81E-06	< 1.01E-08	< 5.76E-09
3,3'-Dimethoxybenzidine	119-90-4	< 4.16	< 6.81E-06	< 2.53E-08	< 1.40E-08	< 3.57	< 5.86E-06	< 1.99E-08	< 1.20E-08	< 4.07	< 7.11E-06	< 2.60E-08	< 1.46E-08	< 3.94	< 6.60E-06	< 2.38E-08	< 1.35E-08
Methylene bis-chloroaniline	101-14-4	< 5.37	< 8.80E-06	< 3.26E-08	< 1.80E-08	< 4.61	< 7.56E-06	< 2.57E-08	< 1.55E-08	< 5.26	< 9.19E-06	< 3.37E-08	< 1.89E-08	< 5.08	< 8.51E-06	< 3.07E-08	< 1.75E-08
3-Furaldehyde		< 4.88	< 7.98E-06	< 2.96E-08	< 1.64E-08	< 4.67	< 7.66E-06	< 2.61E-08	< 1.57E-08	< 4.92	< 8.59E-06	< 3.15E-08	< 1.76E-08	< 4.82	< 8.08E-06	< 2.90E-08	< 1.66E-08
2-Furaldehyde		< 4.28	< 7.01E-06	< 2.60E-08	< 1.44E-08	4.10	6.73E-06	2.29E-08	1.38E-08	< 4.32	< 7.55E-06	< 2.77E-08	< 1.55E-08	< 4.24	< 7.10E-06	< 2.55E-08	< 1.46E-08
Cyclohexylamine	108-91-8	< 2.77	< 4.53E-06	< 1.68E-08	< 9.29E-09	337.45	5.54E-04	1.88E-06	1.14E-06	522.57	9.12E-04	3.34E-06	1.87E-06	< 287.60	< 4.90E-04	< 1.75E-06	< 1.01E-06
N-Nitrosodiethylamine		< 4.72	< 7.73E-06	< 2.87E-08	< 1.59E-08	0.10	1.59E-07	5.40E-10	3.26E-10	< 4.77	< 8.33E-06	< 3.05E-08	< 1.71E-08	< 3.20	< 5.41E-06	< 1.99E-08	< 1.11E-08
Cyclohexanone	108-94-1	16.42	2.69E-05	9.98E-08	5.51E-08	20.69	3.39E-05	1.15E-07	6.96E-08	19.81	3.42E-05	1.25E-07	7.02E-08	18.91	3.17E-05	1.14E-07	6.50E-08
1,3-Cyclooctadiene	29965-97-7	< 2.32	< 3.81E-06	< 1.41E-08	< 7.81E-09	< 2.23	< 3.66E-06	< 1.24E-08	< 7.50E-09	< 2.34	< 4.09E-06	< 1.50E-08	< 8.39E-09	< 2.30	< 3.85E-06	< 1.38E-08	< 7.90E-09
1,5-Cyclooctadiene		< 5.29	< 8.65E-06	< 3.21E-08	< 1.78E-08	< 5.07	< 8.32E-06	< 2.83E-08	< 1.71E-08	< 5.33	< 9.31E-06	< 3.41E-08	< 1.91E-08	< 5.23	< 8.76E-06	< 3.15E-08	< 1.80E-08
Camphene	79-92-5	< 2.41	< 3.95E-06	< 1.46E-08	< 8.10E-09	< 2.31	< 3.80E-06	< 1.29E-08	< 7.79E-09	< 2.44	< 4.25E-06	< 1.56E-08	< 8.72E-09	< 2.39	< 4.00E-06	< 1.44E-08	< 8.20E-09
Benzaldehyde	100-52-7	< 2.48	< 4.05E-06	< 1.50E-08	< 8.31E-09	< 2.38	< 3.90E-06	< 1.33E-08	< 8.01E-09	< 2.50	< 4.36E-06	< 1.60E-08	< 8.94E-09	< 2.45	< 4.10E-06	< 1.48E-08	< 8.42E-09
Benzonitrile	100-47-0	< 0.93	< 1.52E-06	< 5.65E-09	< 3.12E-09	< 0.89	< 1.47E-06	< 4.98E-09	< 3.01E-09	< 0.93	< 1.62E-06	< 5.94E-09	< 3.33E-09	< 0.92	< 1.54E-06	< 5.52E-09	< 3.15E-09

TRC

Table L1-7

Extruder Sidewall Location B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Isooctanol		< 12.22	< 2.00E-05	< 7.42E-08	< 4.10E-08	< 11.72	< 1.92E-05	< 6.54E-08	< 3.94E-08	< 12.33	< 2.15E-05	< 7.68E-08	< 4.41E-08	< 12.09	< 2.02E-05	< 7.28E-08	< 4.15E-08
1,2,4-Trimethylbenzene	95-63-6	26.56	4.35E-05	1.61E-07	8.92E-08	32.14	5.27E-05	1.79E-07	1.08E-07	32.83	5.73E-05	2.10E-07	1.18E-07	30.51	5.12E-05	1.84E-07	1.05E-07
3-Methylstyrene	98-83-9	< 1.48	< 2.42E-06	< 9.00E-09	< 4.97E-09	< 1.42	< 2.33E-06	< 7.92E-09	< 4.78E-09	< 1.50	< 2.61E-06	< 9.56E-09	< 5.35E-09	< 1.47	< 2.46E-06	< 8.83E-09	< 5.04E-09
4-Methylstyrene		< 1.43	< 2.34E-06	< 8.67E-09	< 4.79E-09	< 1.38	< 2.26E-06	< 7.68E-09	< 4.64E-09	< 1.44	< 2.52E-06	< 9.24E-09	< 5.17E-09	< 1.42	< 2.37E-06	< 8.53E-09	< 4.87E-09
4-Chlorostyrene	1331-28-8	< 1.74	< 2.85E-06	< 1.06E-08	< 5.85E-09	< 1.67	< 2.74E-06	< 9.31E-09	< 5.61E-09	< 1.76	< 3.07E-06	< 1.12E-08	< 6.30E-09	< 1.72	< 2.89E-06	< 1.04E-08	< 5.92E-09
1-Dodecene	6842-15-5	< 9.71	< 1.59E-05	< 5.90E-08	< 3.26E-08	< 9.30	< 1.53E-05	< 5.19E-08	< 3.13E-08	< 9.78	< 1.71E-05	< 6.25E-08	< 3.50E-08	< 9.60	< 1.61E-05	< 5.78E-08	< 3.30E-08
Phthalimide	85-41-6	< 3.19	< 5.22E-06	< 1.94E-08	< 1.07E-08	< 2.95	< 4.84E-06	< 1.64E-08	< 9.93E-09	< 3.16	< 5.52E-06	< 2.02E-08	< 1.13E-08	< 3.10	< 5.19E-06	< 1.87E-08	< 1.07E-08
Diphenylamine		2.75	4.50E-06	1.67E-08	9.22E-09	2.45	4.03E-06	1.37E-08	8.26E-09	2.54	4.43E-06	1.62E-08	9.08E-09	2.58	4.32E-06	1.55E-08	8.85E-09
Pyridine	694-59-7	< 2.75	< 4.50E-06	< 1.67E-08	< 9.22E-09	< 2.64	< 4.33E-06	< 1.47E-08	< 8.88E-09	< 2.77	< 4.83E-06	< 1.77E-08	< 9.91E-09	< 2.72	< 4.55E-06	< 1.64E-08	< 9.34E-09
Phenol	108-95-2	32.49	5.32E-05	1.97E-07	1.09E-07	4.05	6.64E-06	2.26E-08	1.36E-08	21.97	3.83E-05	1.40E-07	7.87E-08	19.50	3.27E-05	1.20E-07	6.71E-08
bis(2-Chloroethyl)ether	111-44-4	< 1.95	< 3.19E-06	< 1.18E-08	< 6.53E-09	< 1.86	< 3.06E-06	< 1.04E-08	< 6.27E-09	< 1.96	< 3.42E-06	< 1.25E-08	< 7.02E-09	< 1.92	< 3.22E-06	< 1.16E-08	< 6.61E-09
2-Chlorophenol	95-57-8	< 1.54	< 2.51E-06	< 9.33E-09	< 5.16E-09	< 1.47	< 2.42E-06	< 8.22E-09	< 4.96E-09	< 1.56	< 2.72E-06	< 9.95E-09	< 5.57E-09	< 1.52	< 2.55E-06	< 9.17E-09	< 5.23E-09
1,3-Dichlorobenzene	541-73-1	< 1.49	< 2.44E-06	< 9.06E-09	< 5.01E-09	< 1.43	< 2.35E-06	< 7.98E-09	< 4.82E-09	< 1.51	< 2.63E-06	< 9.63E-09	< 5.39E-09	< 1.48	< 2.47E-06	< 8.89E-09	< 5.07E-09
1,4-Dichlorobenzene	106-46-7	< 1.39	< 2.28E-06	< 8.47E-09	< 4.68E-09	1.35	2.21E-06	7.50E-09	4.53E-09	1.41	2.47E-06	9.05E-09	5.07E-09	< 1.38	< 2.32E-06	< 8.34E-09	< 4.76E-09
1,2-Dichlorobenzen	95-50-1	< 1.50	< 2.46E-06	< 9.13E-09	< 5.05E-09	< 1.44	< 2.37E-06	< 8.04E-09	< 4.85E-09	< 1.52	< 2.65E-06	< 9.69E-09	< 5.43E-09	< 1.49	< 2.49E-06	< 8.95E-09	< 5.11E-09
2,2'-oxybis(1-Chloropropane)	540-54-5	< 1.59	< 2.60E-06	< 9.65E-09	< 5.34E-09	< 1.53	< 2.51E-06	< 8.52E-09	< 5.14E-09	< 1.61	< 2.80E-06	< 1.03E-08	< 5.75E-09	< 1.57	< 2.64E-06	< 9.48E-09	< 5.41E-09
Benzyl alcohol	100-51-6	3.88	6.35E-06	2.36E-08	1.30E-08	3.67	6.02E-06	2.05E-08	1.24E-08	4.01	7.00E-06	2.58E-08	1.44E-08	3.85	6.46E-06	2.32E-08	1.33E-08
2-Methylphenol		< 2.07	< 3.38E-06	< 1.25E-08	< 6.93E-09	< 1.96	< 3.25E-06	< 1.10E-08	< 6.67E-09	< 2.09	< 3.65E-06	< 1.34E-08	< 7.49E-09	< 2.05	< 3.43E-06	< 1.23E-08	< 7.03E-09
3/4-Methylphenol		< 1.96	< 3.20E-06	< 1.19E-08	< 6.57E-09	1.87	3.07E-06	1.04E-08	6.30E-09	< 1.97	< 3.44E-06	< 1.26E-08	< 7.06E-09	< 1.93	< 3.24E-06	< 1.16E-08	< 6.64E-09
N-Nitroso-di-n-propylamine		< 2.77	< 4.53E-06	< 1.68E-08	< 9.29E-09	< 2.65	< 4.34E-06	< 1.46E-08	< 8.91E-09	< 2.79	< 4.87E-06	< 1.78E-08	< 9.99E-09	< 2.73	< 4.58E-06	< 1.65E-08	< 9.40E-09
Hexachloroethane	67-72-1	< 3.01	< 4.92E-06	< 1.83E-08	< 1.01E-08	< 2.88	< 4.73E-06	< 1.61E-08	< 9.71E-09	< 3.03	< 5.29E-06	< 1.94E-08	< 1.09E-08	< 2.97	< 4.98E-06	< 1.79E-08	< 1.02E-08
Nitrobenzene	98-95-3	< 1.60	< 2.62E-06	< 9.72E-09	< 5.37E-09	< 1.53	< 2.51E-06	< 8.52E-09	< 5.14E-09	< 1.61	< 2.80E-06	< 1.03E-08	< 5.75E-09	< 1.58	< 2.64E-06	< 9.51E-09	< 5.42E-09
Isophorone	78-59-1	4.69	7.68E-06	2.85E-08	1.58E-08	5.08	8.34E-06	2.83E-08	1.71E-08	4.50	7.85E-06	2.88E-08	1.61E-08	4.76	7.96E-06	2.85E-08	1.63E-08
2-Nitrophenol	88-75-5	< 2.78	< 4.55E-06	< 1.69E-08	< 9.33E-09	< 2.67	< 4.38E-06	< 1.49E-08	< 8.98E-09	< 2.80	< 4.89E-06	< 1.79E-08	< 1.00E-08	< 2.75	< 4.60E-06	< 1.66E-08	< 9.45E-09
2,4-Dimethylphenol	1300-71-6	1.50	2.46E-06	9.13E-09	5.05E-09	< 1.91	< 3.13E-06	< 1.06E-08	< 6.41E-09	< 2.00	< 3.49E-06	< 1.28E-08	< 7.16E-09	< 1.80	< 3.03E-06	< 1.08E-08	< 6.21E-09
bis(2-Chloroethoxy)methane		< 1.60	< 2.62E-06	< 9.72E-09	< 5.37E-09	< 1.53	< 2.51E-06	< 8.52E-09	< 5.14E-09	< 1.61	< 2.80E-06	< 1.03E-08	< 5.75E-09	< 1.58	< 2.64E-06	< 9.51E-09	< 5.42E-09
Benzoic acid	65-85-0	19.10	3.13E-05	1.16E-07	6.42E-08	21.66	3.55E-05	1.21E-07	7.29E-08	4.03	7.04E-06	2.58E-08	1.44E-08	14.93	2.46E-05	8.75E-08	5.05E-08
2,4-Dichlorophenol	120-83-2	< 2.05	< 3.36E-06	< 1.25E-08	< 6.90E-09	< 1.97	< 3.23E-06	< 1.10E-08	< 6.63E-09	< 2.07	< 3.62E-06	< 1.32E-08	< 7.42E-09	< 2.03	< 3.40E-06	< 1.22E-08	< 6.98E-09
1,2,4-Trichlorobenzene	120-83-2	< 1.82	< 2.97E-06	< 1.10E-08	< 6.10E-09	< 1.74	< 2.86E-06	< 9.73E-09	< 5.87E-09	< 1.83	< 3.19E-06	< 1.17E-08	< 6.55E-09	< 1.80	< 3.01E-06	< 1.08E-08	< 6.17E-09
Naphthalene	91-20-3	13.55	2.22E-05	8.23E-08	4.55E-08	9.59	1.57E-05	5.35E-08	3.23E-08	9.99	1.74E-05	6.39E-08	3.58E-08	11.04	1.85E-05	6.66E-08	3.79E-08
4-Chloroaniline		< 1.37	< 2.25E-06	< 8.34E-09	< 4.61E-09	< 1.31	< 2.15E-06	< 7.32E-09	< 4.42E-09	< 1.38	< 2.42E-06	< 8.85E-09	< 4.96E-09	< 1.36	< 2.27E-06	< 8.17E-09	< 4.66E-09
Hexachlorobutadiene	87-68-3	< 3.06	< 5.01E-06	< 1.86E-08	< 1.03E-08	< 2.93	< 4.80E-06	< 1.63E-08	< 9.85E-09	< 3.08	< 5.38E-06	< 1.97E-08	< 1.10E-08	< 3.02	< 5.06E-06	< 1.82E-08	< 1.04E-08
4-Chloro-3-methylphenol		< 2.41	< 3.95E-06	< 1.46E-08	< 8.10E-09	< 2.30	< 3.78E-06	< 1.28E-08	< 7.75E-09	< 2.42	< 4.23E-06	< 1.55E-08	< 8.68E-09	< 2.38	< 3.99E-06	< 1.43E-08	< 8.18E-09
2-Methylnaphthalene		1.72	2.81E-06	1.04E-08	5.77E-09	1.63	2.67E-06	9.06E-09	5.47E-09	1.59	2.77E-06	1.01E-08	5.68E-09	1.64	2.75E-06	9.88E-09	5.64E-09
Hexachlorocyclopentadiene	77-47-4	< 3.42	< 5.59E-06	< 2.08E-08	< 1.15E-08	< 3.16	< 5.19E-06	< 1.76E-08	< 1.07E-08	< 3.39	< 5.93E-06	< 2.17E-08	< 1.22E-08	< 3.33	< 5.57E-06	< 2.00E-08	< 1.14E-08
2,4,6-Trichlorophenol	88-06-2	< 3.02	< 4.94E-06	< 1.83E-08	< 1.01E-08	< 2.79	< 4.57E-06	< 1.55E-08	< 9.38E-09	< 2.99	< 5.22E-06	< 1.91E-08	< 1.07E-08	< 2.93	< 4.91E-06	< 1.77E-08	< 1.01E-08

TRC

Table L1-7

Extruder Sidewall Location B Speciated Semivolatiles

Compound	CAS Numbers	Run 1 Conc. µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc. µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc. µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc. µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
2,4,5-Trichlorophenol	95-95-4	< 3.17	< 5.19E-06	< 1.92E-08	< 1.06E-08	< 2.94	< 4.82E-06	< 1.64E-08	< 9.89E-09	< 3.14	< 5.49E-06	< 2.01E-08	< 1.13E-08	< 3.08	< 5.16E-06	< 1.86E-08	< 1.06E-08
2-Chloronaphthalene	1335-88-2	< 0.94	< 1.54E-06	< 5.71E-09	< 3.16E-09	< 0.87	< 1.43E-06	< 4.86E-09	< 2.93E-09	< 0.93	< 1.62E-06	< 5.94E-09	< 3.33E-09	< 0.91	< 1.53E-06	< 5.51E-09	< 3.14E-09
2-Nitroaniline		< 3.25	< 5.33E-06	< 1.98E-08	< 1.09E-08	< 3.01	< 4.94E-06	< 1.68E-08	< 1.01E-08	< 3.22	< 5.63E-06	< 2.06E-08	< 1.15E-08	< 3.16	< 5.30E-06	< 1.91E-08	< 1.09E-08
Dimethylphthalate	131-11-13	< 0.84	< 1.38E-06	< 5.12E-09	< 2.83E-09	< 0.79	< 1.29E-06	< 4.38E-09	< 2.64E-09	< 0.84	< 1.46E-06	< 5.36E-09	< 3.00E-09	< 0.82	< 1.38E-06	< 4.96E-09	< 2.83E-09
2,6-Dinitrotoluene		< 3.43	< 5.61E-06	< 2.08E-08	< 1.15E-08	< 3.18	< 5.21E-06	< 1.77E-08	< 1.07E-08	< 3.41	< 5.94E-06	< 2.18E-08	< 1.22E-08	< 3.34	< 5.59E-06	< 2.01E-08	< 1.15E-08
2,4-Dinitrotoluene	121-14-2	< 2.65	< 4.34E-06	< 1.61E-08	< 8.89E-09	< 2.45	< 4.03E-06	< 1.37E-08	< 8.26E-09	< 2.63	< 4.59E-06	< 1.68E-08	< 9.41E-09	< 2.58	< 4.32E-06	< 1.55E-08	< 8.85E-09
Acenaphthylene		0.85	1.40E-06	5.19E-09	2.87E-09	0.94	1.54E-06	5.22E-09	3.15E-09	1.02	1.78E-06	6.53E-09	3.65E-09	0.94	1.57E-06	5.65E-09	3.22E-09
3-Nitroaniline		< 3.31	< 5.42E-06	< 2.01E-08	< 1.11E-08	< 3.06	< 5.02E-06	< 1.70E-08	< 1.03E-08	< 3.28	< 5.73E-06	< 2.10E-08	< 1.18E-08	< 3.22	< 5.39E-06	< 1.94E-08	< 1.11E-08
Acenaphthene		0.27	4.42E-07	1.64E-09	9.08E-10	< 1.00	< 1.64E-06	< 5.58E-09	< 3.37E-09	1.07	1.87E-06	6.85E-09	3.84E-09	< 0.78	< 1.32E-06	< 4.69E-09	< 2.70E-09
2,4-Dinitrophenol		< 10.77	< 1.76E-05	< 6.54E-08	< 3.62E-08	< 9.97	< 1.64E-05	< 5.56E-08	< 3.35E-08	< 10.68	< 1.86E-05	< 6.83E-08	< 3.82E-08	< 10.47	< 1.75E-05	< 6.31E-08	< 3.60E-08
4-Nitrophenol		< 8.03	< 1.32E-05	< 4.88E-08	< 2.70E-08	< 7.44	< 1.22E-05	< 4.15E-08	< 2.50E-08	< 7.96	< 1.39E-05	< 5.09E-08	< 2.85E-08	< 7.81	< 1.31E-05	< 4.71E-08	< 2.68E-08
Dibenzofuran	38178-38-0	0.40	6.55E-07	2.43E-09	1.34E-09	0.65	1.06E-06	3.60E-09	2.17E-09	< 0.70	< 1.22E-06	< 4.46E-09	< 2.50E-09	< 0.58	< 9.77E-07	< 3.50E-09	< 2.00E-09
Diethylphthalate	84-66-2	2.27	3.72E-06	1.38E-08	7.62E-09	0.65	1.06E-06	3.60E-09	2.17E-09	0.35	6.17E-07	2.26E-09	1.27E-09	1.09	1.80E-06	6.55E-09	3.69E-09
4-Chlorophenyl-phenylether		< 2.00	< 3.27E-06	< 1.21E-08	< 6.72E-09	< 1.85	< 3.04E-06	< 1.03E-08	< 6.23E-09	< 1.98	< 3.48E-06	< 1.27E-08	< 7.09E-09	< 1.94	< 3.26E-06	< 1.17E-08	< 6.68E-09
Fluorene	86-73-7	0.51	8.32E-07	3.09E-09	1.71E-09	0.88	1.45E-06	4.92E-09	2.97E-09	0.41	7.23E-07	2.65E-09	1.48E-09	0.60	1.00E-06	3.55E-09	2.05E-09
4-Nitroaniline		< 3.71	< 6.07E-06	< 2.25E-08	< 1.25E-08	< 3.43	< 5.63E-06	< 1.92E-08	< 1.16E-08	< 3.68	< 6.42E-06	< 2.35E-08	< 1.32E-08	< 3.61	< 6.04E-06	< 2.17E-08	< 1.24E-08
4,6-Dinitro-2-methylphenol	85-01-8	< 7.28	< 1.19E-05	< 4.42E-08	< 2.44E-08	< 6.66	< 1.09E-05	< 3.72E-08	< 2.24E-08	< 7.33	< 1.28E-05	< 4.68E-08	< 2.62E-08	< 7.09	< 1.19E-05	< 4.27E-08	< 2.44E-08
4-Bromophenyl-phenyether	121-14-2	< 3.28	< 5.36E-06	< 1.99E-08	< 1.10E-08	< 3.00	< 4.93E-06	< 1.67E-08	< 1.01E-08	< 3.30	< 5.77E-06	< 2.11E-08	< 1.18E-08	< 3.19	< 5.35E-06	< 1.93E-08	< 1.10E-08
Hexachlorobenzene	118-74-1	< 2.52	< 4.12E-06	< 1.53E-08	< 8.46E-09	< 2.30	< 3.78E-06	< 1.28E-08	< 7.75E-09	< 2.54	< 4.43E-06	< 1.62E-08	< 9.08E-09	< 2.45	< 4.11E-06	< 1.48E-08	< 8.43E-09
Pentachlorophenol	87-86-5	< 6.14	< 1.01E-05	< 3.73E-08	< 2.06E-08	< 5.62	< 9.22E-06	< 3.13E-08	< 1.89E-08	< 6.18	< 1.08E-05	< 3.95E-08	< 2.21E-08	< 5.98	< 1.00E-05	< 3.61E-08	< 2.06E-08
Phenanthrene	85-01-8	1.45	2.37E-06	8.80E-09	4.86E-09	0.80	1.31E-06	4.44E-09	2.68E-09	0.86	1.50E-06	5.49E-09	3.08E-09	1.03	1.73E-06	6.24E-09	3.54E-09
Anthracene	120-12-7	< 0.78	< 1.27E-06	< 4.73E-09	< 2.61E-09	< 0.71	< 1.17E-06	< 3.96E-09	< 2.39E-09	< 0.78	< 1.36E-06	< 4.97E-09	< 2.79E-09	< 0.76	< 1.27E-06	< 4.56E-09	< 2.60E-09
Di-n-butylphthalate		11.35	1.86E-05	6.90E-08	3.81E-08	6.07	9.96E-06	3.39E-08	2.04E-08	22.33	3.90E-05	1.43E-07	8.00E-08	13.25	2.25E-05	8.19E-08	4.62E-08
Fluoranthene	206-44-0	< 0.89	< 1.45E-06	< 5.39E-09	< 2.98E-09	0.81	1.32E-06	4.50E-09	2.72E-09	0.89	1.55E-06	5.69E-09	3.18E-09	< 0.86	< 1.44E-06	< 5.19E-09	< 2.96E-09
Pyrene	129-00-0	0.68	1.12E-06	4.14E-09	2.29E-09	0.70	1.15E-06	3.90E-09	2.35E-09	1.07	1.87E-06	6.85E-09	3.84E-09	0.82	1.38E-06	4.96E-09	2.83E-09
Butylbenzylphthalate		< 1.50	< 2.46E-06	< 9.13E-09	< 5.05E-09	< 1.29	< 2.12E-06	< 7.20E-09	< 4.35E-09	< 1.48	< 2.58E-06	< 9.43E-09	< 5.28E-09	< 1.42	< 2.38E-06	< 8.59E-09	< 4.89E-09
3,3'-Dichlorobenzidine	91-94-1	< 2.91	< 4.76E-06	< 1.77E-08	< 9.77E-09	< 2.50	< 4.10E-06	< 1.39E-08	< 8.40E-09	< 2.85	< 4.97E-06	< 1.82E-08	< 1.02E-08	< 2.75	< 4.61E-06	< 1.66E-08	< 9.46E-09
bis(2-Ethylhexyl)phthalate		17.30	2.83E-05	1.05E-07	5.81E-08	16.07	2.64E-05	8.98E-08	5.41E-08	13.07	2.28E-05	8.36E-08	4.68E-08	15.48	2.58E-05	9.28E-08	5.30E-08
Benzo(a)anthracene		< 1.08	< 1.77E-06	< 6.57E-09	< 3.63E-09	< 0.93	< 1.52E-06	< 5.16E-09	< 3.12E-09	< 1.06	< 1.85E-06	< 6.78E-09	< 3.80E-09	< 1.02	< 1.71E-06	< 6.17E-09	< 3.51E-09
Chrysene	218-01-9	< 1.19	< 1.95E-06	< 7.22E-09	< 3.99E-09	< 1.02	< 1.68E-06	< 5.70E-09	< 3.44E-09	< 1.17	< 2.05E-06	< 7.49E-09	< 4.20E-09	< 1.13	< 1.89E-06	< 6.81E-09	< 3.88E-09
Di-n-octylphthalate		< 0.70	< 1.15E-06	< 4.27E-09	< 2.36E-09	0.03	5.30E-08	1.80E-10	1.09E-10	< 0.13	< 2.29E-07	< 8.40E-10	< 4.70E-10	< 0.29	< 4.78E-07	< 1.76E-09	< 9.80E-10
Benzo(b)fluoranthene		< 1.06	< 1.73E-06	< 6.44E-09	< 3.56E-09	< 0.91	< 1.50E-06	< 5.10E-09	< 3.08E-09	< 1.03	< 1.80E-06	< 6.59E-09	< 3.69E-09	< 1.00	< 1.68E-06	< 6.04E-09	< 3.44E-09
Benzo(k)fluoranthene		< 1.14	< 1.86E-06	< 6.90E-09	< 3.81E-09	< 0.98	< 1.61E-06	< 5.46E-09	< 3.30E-09	< 1.11	< 1.94E-06	< 7.11E-09	< 3.98E-09	< 1.08	< 1.80E-06	< 6.49E-09	< 3.70E-09
Benzo(a)pyrene	50-32-8	< 1.11	< 1.82E-06	< 6.76E-09	< 3.74E-09	< 0.96	< 1.57E-06	< 5.34E-09	< 3.22E-09	< 1.08	< 1.89E-06	< 6.91E-09	< 3.87E-09	< 1.05	< 1.76E-06	< 6.34E-09	< 3.61E-09
Indeno(1,2,3-cd)pyrene		< 1.19	< 1.95E-06	< 7.22E-09	< 3.99E-09	< 1.02	< 1.68E-06	< 5.70E-09	< 3.44E-09	< 1.15	< 2.01E-06	< 7.37E-09	< 4.12E-09	< 1.12	< 1.88E-06	< 6.76E-09	< 3.85E-09
Dibenz(a,h)anthracene		< 1.36	< 2.23E-06	< 8.27E-09	< 4.57E-09	< 1.17	< 1.92E-06	< 6.54E-09	< 3.95E-09	< 1.32	< 2.31E-06	< 8.46E-09	< 4.74E-09	< 1.29	< 2.16E-06	< 7.76E-09	< 4.42E-09
Benzo(g,h,i)perylene		< 1.15	< 1.88E-06	< 6.96E-09	< 3.85E-09	< 0.99	< 1.62E-06	< 5.52E-09	< 3.33E-09	< 1.11	< 1.94E-06	< 7.11E-09	< 3.98E-09	< 1.06	< 1.81E-06	< 6.53E-09	< 3.72E-09
Total Detected		236.71	3.87E-04	1.44E-06	7.95E-07	563.98	9.25E-04	3.15E-06	1.90E-06	746.98	1.30E-03	4.78E-06	2.67E-06	223.9925	3.75E-04	1.35E-06	7.69E-07
Total with non-detects		< 483.96	< 7.92E-04	< 2.94E-06	< 1.63E-06	< 779.11	< 1.28E-03	< 4.35E-06	< 2.62E-06	< 991.37	< 1.73E-03	< 6.34E-06	< 3.55E-06	< 751.482	< 1.27E-03	< 4.54E-06	< 2.60E-06

TRC

Table I.1-8

Extruder EPDM Locations A and B Speciated Semivolatiles

Compound	CAS #	Run 1				Run 2				Run 3				Average			
		Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine		< 10.95	< 2.18E-05	< 5.97E-08	< 2.52E-08	< 14.39	< 2.80E-05	< 7.77E-08	< 3.45E-08	< 5.78	< 1.10E-05	< 3.22E-08	< 1.23E-08	< 10.4	< 2.03E-05	< 5.65E-08	< 2.40E-08
Cumene	98-82-8	135.06	2.10E-04	7.03E-07	2.43E-07	101.17	1.74E-04	4.83E-07	2.14E-07	63.13	1.14E-04	3.34E-07	2.60E-08	99.8	1.66E-04	5.06E-07	1.61E-07
Aniline	62-53-3	< 2.50	< 4.99E-06	< 1.36E-08	< 5.75E-09	0.28	6.67E-07	1.85E-09	8.21E-10	< 1.92	< 3.65E-06	< 1.07E-08	< 4.08E-09	< 1.6	< 3.10E-06	< 8.72E-09	< 3.55E-09
Benzyl Chloride	100-44-7	< 1.60	< 3.20E-06	< 8.74E-09	< 3.69E-09	< 2.10	< 4.10E-06	< 1.14E-08	< 5.04E-09	< 1.24	< 2.35E-06	< 6.89E-09	< 2.63E-09	< 1.6	< 3.22E-06	< 8.99E-09	< 3.79E-09
Acetophenone	98-86-2	2506.25	4.06E-03	1.30E-05	4.68E-06	1452.02	2.53E-03	7.00E-06	3.11E-06	864.77	1.56E-03	4.56E-06	3.12E-07	1607.7	2.71E-03	8.18E-06	2.70E-06
n-Nitrosomorpholine		< 4.72	< 9.41E-06	< 2.57E-08	< 1.09E-08	< 6.23	< 1.21E-05	< 3.36E-08	< 1.49E-08	< 3.01	< 5.73E-06	< 1.68E-08	< 6.41E-09	< 4.7	< 9.09E-06	< 2.54E-08	< 1.07E-08
o-Toluidine	95-53-4	< 2.31	< 4.60E-06	< 1.26E-08	< 5.31E-09	< 3.05	< 5.94E-06	< 1.65E-08	< 7.31E-09	< 1.56	< 2.97E-06	< 8.69E-09	< 3.32E-09	< 2.3	< 4.50E-06	< 1.26E-08	< 5.31E-09
1,2-Dibromo-3-chloropropane	96-12-8	< 6.09	< 1.21E-05	< 3.32E-08	< 1.40E-08	< 8.01	< 1.56E-05	< 4.32E-08	< 1.92E-08	< 4.34	< 8.25E-06	< 2.42E-08	< 9.23E-09	< 6.1	< 1.20E-05	< 3.35E-08	< 1.41E-08
N,N-Diethylaniline	91-66-7	< 2.13	< 4.24E-06	< 1.16E-08	< 4.89E-09	< 2.80	< 5.46E-06	< 1.51E-08	< 6.73E-09	< 1.47	< 2.80E-06	< 8.20E-09	< 3.13E-09	< 2.1	< 4.17E-06	< 1.16E-08	< 4.92E-09
N,N-Dimethylaniline	121-69-7	< 2.03	< 4.05E-06	< 1.11E-08	< 4.67E-09	< 2.69	< 5.23E-06	< 1.45E-08	< 6.44E-09	< 1.55	< 2.94E-06	< 8.62E-09	< 3.29E-09	< 2.1	< 4.07E-06	< 1.14E-08	< 4.80E-09
o-Anisidine	104-94-9	< 4.04	< 8.05E-06	< 2.20E-08	< 9.29E-09	< 5.34	< 1.04E-05	< 2.88E-08	< 1.28E-08	< 3.28	< 6.23E-06	< 1.82E-08	< 6.97E-09	< 4.2	< 8.23E-06	< 2.30E-08	< 9.69E-09
1,4-Phenylenediamine		< 5.89	< 1.18E-05	< 3.22E-08	< 1.36E-08	< 6.72	< 1.34E-05	< 3.71E-08	< 1.65E-08	< 4.34	< 8.25E-06	< 2.42E-08	< 9.23E-09	< 5.7	< 1.11E-05	< 3.11E-08	< 1.31E-08
a,a,a-Trichlorotoluene		< 2.44	< 4.87E-06	< 1.33E-08	< 5.62E-09	< 3.23	< 6.29E-06	< 1.74E-08	< 7.74E-09	< 1.63	< 3.10E-06	< 9.06E-09	< 3.46E-09	< 2.4	< 4.75E-06	< 1.33E-08	< 5.61E-09
Hydroquinone	123-31-9	< 4.91	< 9.81E-06	< 2.68E-08	< 1.13E-08	< 6.50	< 1.27E-05	< 3.51E-08	< 1.56E-08	< 2.77	< 5.26E-06	< 1.54E-08	< 5.88E-09	< 4.7	< 9.24E-06	< 2.58E-08	< 1.09E-08
2-Chloroacetophenone	532-27-4	< 1.81	< 3.60E-06	< 9.85E-09	< 4.16E-09	1.27	2.10E-06	5.82E-09	0.00E+00	0.19	1.93E-06	9.63E-10	0.00E+00	< 1.1	< 2.54E-06	< 5.55E-09	< 1.39E-09
Biphenyl	92-52-4	0.56	2.71E-06	2.82E-09	3.13E-09	1.18	1.96E-06	5.42E-09	2.41E-09	0.30	2.14E-06	1.55E-09	0.00E+00	0.7	2.27E-06	3.27E-09	1.85E-09
Trifluralin	1582-09-8	< 7.81	< 1.56E-05	< 4.26E-08	< 1.80E-08	< 10.76	< 2.09E-05	< 5.78E-08	< 2.57E-08	< 4.49	< 8.54E-06	< 2.50E-08	< 9.56E-09	< 7.7	< 1.50E-05	< 4.16E-08	< 1.77E-08
4-Aminobiphenyl	90-41-5	< 2.10	< 4.21E-06	< 1.15E-08	< 4.86E-09	< 3.17	< 6.09E-06	< 1.69E-08	< 7.49E-09	< 1.28	< 2.44E-06	< 7.15E-09	< 2.73E-09	< 2.2	< 4.25E-06	< 1.18E-08	< 5.03E-09
Pentachloronitrobenzene	82-68-8	< 12.54	< 2.51E-05	< 6.86E-08	< 2.89E-08	< 18.96	< 3.64E-05	< 1.01E-07	< 4.48E-08	< 8.20	< 1.56E-05	< 4.57E-08	< 1.74E-08	< 13.2	< 2.57E-05	< 7.17E-08	< 3.04E-08
4-Nitrobiphenyl	92-93-3	< 4.29	< 8.58E-06	< 2.35E-08	< 9.90E-09	< 7.45	< 1.40E-05	< 3.89E-08	< 1.73E-08	< 2.84	< 5.40E-06	< 1.58E-08	< 6.04E-09	< 4.9	< 9.34E-06	< 2.61E-08	< 1.11E-08
Benzidine	92-87-5	< 3.06	< 6.12E-06	< 1.67E-08	< 7.06E-09	< 5.76	< 1.08E-05	< 2.98E-08	< 1.32E-08	2.76	6.90E-06	1.59E-08	7.72E-09	< 3.9	< 7.93E-06	< 2.08E-08	< 9.35E-09
4,4 Methylenedianiline	107-77-9	< 5.39	< 1.08E-05	< 2.95E-08	< 1.24E-08	< 10.14	< 1.90E-05	< 5.25E-08	< 2.33E-08	< 4.40	< 8.36E-06	< 2.45E-08	< 9.35E-09	< 6.6	< 1.27E-05	< 3.55E-08	< 1.50E-08
Dimethylaminoazobenzene	60-11-7	< 4.28	< 8.58E-06	< 2.35E-08	< 9.90E-09	< 8.06	< 1.51E-05	< 4.17E-08	< 1.85E-08	< 3.35	< 6.36E-06	< 1.86E-08	< 7.12E-09	< 5.2	< 1.00E-05	< 2.79E-08	< 1.19E-08
3,3'-Dimethylbenzidine	119-93-7	< 2.62	< 5.25E-06	< 1.44E-08	< 6.06E-09	< 4.93	< 9.21E-06	< 2.55E-08	< 1.13E-08	< 2.23	< 4.24E-06	< 1.24E-08	< 4.75E-09	< 3.3	< 6.23E-06	< 1.74E-08	< 7.38E-09
3,3'-Dimethoxybenzidine	119-90-4	< 6.15	< 1.23E-05	< 3.37E-08	< 1.42E-08	< 11.58	< 2.16E-05	< 6.00E-08	< 2.66E-08	< 8.45	< 1.61E-05	< 4.70E-08	< 1.80E-08	< 8.7	< 1.67E-05	< 4.69E-08	< 1.96E-08
Methylene bis-chloroaniline	101-14-4	< 7.95	< 1.59E-05	< 4.35E-08	< 1.84E-08	< 14.94	< 2.79E-05	< 7.74E-08	< 3.44E-08	< 9.00	< 1.71E-05	< 5.01E-08	< 1.91E-08	< 10.6	< 2.03E-05	< 5.70E-08	< 2.40E-08
3-Furaldehyde		< 8.44	< 1.68E-05	< 4.60E-08	< 1.94E-08	< 11.10	< 2.16E-05	< 5.99E-08	< 2.66E-08	< 4.51	< 8.57E-06	< 2.51E-08	< 9.59E-09	< 8.0	< 1.57E-05	< 4.37E-08	< 1.85E-08
2-Furaldehyde		< 7.41	< 1.48E-05	< 4.04E-08	< 1.70E-08	< 9.75	< 1.90E-05	< 5.27E-08	< 2.34E-08	0.18	5.66E-06	9.31E-10	0.00E+00	< 5.8	< 1.31E-05	< 3.13E-08	< 1.35E-08
Cyclohexylamine	108-91-8	< 4.79	< 9.55E-06	< 2.61E-08	< 1.10E-08	< 6.30	< 1.23E-05	< 3.40E-08	< 1.51E-08	< 3.74	< 7.10E-06	< 2.08E-08	< 7.94E-09	< 4.9	< 9.64E-06	< 2.70E-08	< 1.14E-08
N-Nitrosodiethylamine		< 8.18	< 1.63E-05	< 4.46E-08	< 1.88E-08	< 10.77	< 2.10E-05	< 5.82E-08	< 2.58E-08	< 5.78	< 1.10E-05	< 3.22E-08	< 1.23E-08	< 8.2	< 1.61E-05	< 4.50E-08	< 1.90E-08
Cyclohexanone	108-94-1	< 4.31	< 8.60E-06	< 2.35E-08	< 9.92E-09	< 5.67	< 1.11E-05	< 3.06E-08	< 1.36E-08	1.56	2.96E-06	8.67E-09	2.42E-09	< 3.8	< 7.54E-06	< 2.09E-08	< 8.65E-09
1,3-Cyclooctadiene	29965-97-	3.42	1.05E-05	1.74E-08	1.21E-08	< 5.29	< 1.03E-05	< 2.86E-08	< 1.27E-08	1.86	6.92E-06	9.67E-09	0.00E+00	< 3.5	< 9.24E-06	< 1.85E-08	< 8.27E-09
1,5-Cyclooctadiene		< 9.15	< 1.82E-05	< 4.99E-08	< 2.11E-08	< 12.05	< 2.35E-05	< 6.50E-08	< 2.89E-08	< 5.84	< 1.11E-05	< 3.25E-08	< 1.24E-08	< 9.0	< 1.76E-05	< 4.91E-08	< 2.08E-08
Camphene	79-92-5	< 4.17	< 8.32E-06	< 2.28E-08	< 9.60E-09	< 5.49	< 1.07E-05	< 2.97E-08	< 1.32E-08	< 3.00	< 5.70E-06	< 1.67E-08	< 6.38E-09	< 4.2	< 8.24E-06	< 2.30E-08	< 9.72E-09
Benzaldehyde	100-52-7	7.81	1.05E-05	4.13E-08	1.21E-08	9.36	1.62E-05	4.49E-08	2.00E-08	6.13	1.14E-05	3.33E-08	6.01E-09	7.8	1.27E-05	3.98E-08	1.27E-08
Benzonitrile	100-47-0	2.51	6.31E-06	1.27E-08	7.28E-09	2.06	3.40E-06	9.42E-09	4.18E-09	< 1.32	< 2.50E-06	< 7.33E-09	< 2.80E-09	< 2.0	< 4.07E-06	< 9.83E-09	< 4.76E-09

TRC

Table L1-8

Extruder EPDM Locations A and B Speciated Semivolatiles

Compound	CAS #	Run 1				Run 2				Run 3				Average			
		Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
Isooctanol		< 21.15	< 4.22E-05	< 1.15E-07	< 4.87E-08	< 27.83	< 5.42E-05	< 1.50E-07	< 6.68E-08	< 12.56	< 2.39E-05	< 6.98E-08	< 2.67E-08	< 20.5	< 4.01E-05	< 1.12E-07	< 4.74E-08
1,2,4-Trimethylbenzene	95-63-6	11.31	1.67E-05	5.92E-08	1.93E-08	9.85	1.73E-05	4.79E-08	2.13E-08	9.13	1.66E-05	4.86E-08	4.79E-09	10.1	1.69E-05	5.19E-08	1.51E-08
3-Methylstyrene	98-83-9	< 2.55	< 5.08E-06	< 1.39E-08	< 5.87E-09	< 3.36	< 6.54E-06	< 1.81E-08	< 8.05E-09	< 1.78	< 3.37E-06	< 9.88E-09	< 3.77E-09	< 2.6	< 5.00E-06	< 1.40E-08	< 5.90E-09
4-Methylstyrene		< 2.48	< 4.94E-06	< 1.35E-08	< 5.71E-09	< 3.26	< 6.36E-06	< 1.76E-08	< 7.82E-09	< 2.02	< 3.84E-06	< 1.12E-08	< 4.29E-09	< 2.6	< 5.05E-06	< 1.41E-08	< 5.94E-09
4-Chlorostyrene	1331-28-8	< 3.00	< 5.99E-06	< 1.64E-08	< 6.91E-09	< 3.96	< 7.72E-06	< 2.14E-08	< 9.50E-09	< 2.32	< 4.41E-06	< 1.29E-08	< 4.94E-09	< 3.1	< 6.04E-06	< 1.69E-08	< 7.11E-09
1-Dodecene	6842-15-5	< 16.22	< 3.24E-05	< 8.85E-08	< 3.73E-08	< 21.47	< 4.18E-05	< 1.16E-07	< 5.14E-08	< 11.08	< 2.11E-05	< 6.16E-08	< 2.36E-08	< 16.3	< 3.17E-05	< 8.66E-08	< 3.74E-08
Phthalimide	85-41-6	< 5.36	< 1.07E-05	< 2.93E-08	< 1.24E-08	< 7.40	< 1.43E-05	< 3.97E-08	< 1.77E-08	< 3.67	< 6.97E-06	< 2.04E-08	< 7.80E-09	< 5.5	< 1.07E-05	< 2.98E-08	< 1.26E-08
Diphenylamine		106.09	1.78E-04	5.47E-07	2.06E-07	59.48	1.01E-04	2.80E-07	1.24E-07	51.59	9.22E-05	2.70E-07	9.36E-09	72.4	1.24E-04	3.66E-07	1.13E-07
Pyridine	694-59-7	< 4.75	< 9.46E-06	< 2.59E-08	< 1.09E-08	< 6.25	< 1.22E-05	< 3.37E-08	< 1.50E-08	< 3.53	< 6.70E-06	< 1.96E-08	< 7.50E-09	< 4.8	< 9.45E-06	< 2.64E-08	< 1.11E-08
Phenol	108-95-2	27.16	1.34E-05	1.53E-07	1.55E-08	35.48	7.44E-05	2.06E-07	9.16E-08	28.29	5.42E-05	1.59E-07	4.90E-08	30.3	4.74E-05	1.73E-07	5.20E-08
bis(2-Chloroethyl)ether	111-44-4	< 3.37	< 6.71E-06	< 1.84E-08	< 7.74E-09	< 4.43	< 8.63E-06	< 2.39E-08	< 1.06E-08	< 2.80	< 5.32E-06	< 1.56E-08	< 5.95E-09	< 3.5	< 6.89E-06	< 1.93E-08	< 8.11E-09
2-Chlorophenol	95-57-8	< 2.68	< 5.31E-06	< 1.45E-08	< 6.12E-09	< 3.51	< 6.83E-06	< 1.89E-08	< 8.41E-09	< 2.14	< 4.07E-06	< 1.19E-08	< 4.55E-09	< 2.8	< 5.40E-06	< 1.51E-08	< 6.36E-09
1,3-Dichlorobenzene	541-73-1	< 2.59	< 5.17E-06	< 1.41E-08	< 5.96E-09	< 3.40	< 6.62E-06	< 1.84E-08	< 8.15E-09	< 1.86	< 3.54E-06	< 1.04E-08	< 3.96E-09	< 2.6	< 5.11E-06	< 1.43E-08	< 6.03E-09
1,4-Dichlorobenzene	106-46-7	< 2.42	< 4.82E-06	< 1.32E-08	< 5.56E-09	< 3.19	< 6.21E-06	< 1.72E-08	< 7.64E-09	< 1.85	< 3.52E-06	< 1.03E-08	< 3.94E-09	< 2.5	< 4.85E-06	< 1.36E-08	< 5.71E-09
1,2-Dichlorobenzen	95-50-1	< 2.81	< 5.21E-06	< 1.42E-08	< 6.01E-09	< 3.43	< 6.68E-06	< 1.85E-08	< 8.23E-09	< 1.95	< 3.71E-06	< 1.09E-08	< 4.15E-09	< 2.7	< 5.20E-06	< 1.45E-08	< 6.13E-09
2,2'-oxybis(1-Chloropropane)	540-54-5	< 2.75	< 5.49E-06	< 1.50E-08	< 6.33E-09	< 3.62	< 7.06E-06	< 1.96E-08	< 8.69E-09	< 2.59	< 4.92E-06	< 1.44E-08	< 5.51E-09	< 3.0	< 5.82E-06	< 1.63E-08	< 6.84E-09
Benzyl alcohol	100-51-6	< 5.30	< 1.06E-05	< 2.89E-08	< 1.22E-08	< 6.98	< 1.36E-05	< 3.77E-08	< 1.67E-08	6.54	1.24E-05	3.62E-08	9.46E-09	< 6.3	< 1.22E-05	< 3.43E-08	< 1.28E-08
2-Methylphenol		< 3.59	< 7.15E-06	< 1.96E-08	< 8.26E-09	1.16	2.76E-06	7.66E-09	3.40E-09	< 2.53	< 4.81E-06	< 1.41E-08	< 5.38E-09	< 2.4	< 4.91E-06	< 1.38E-08	< 5.68E-09
3/4-Methylphenol		< 3.39	< 6.75E-06	< 1.85E-08	< 7.79E-09	< 4.46	< 8.89E-06	< 2.41E-08	< 1.07E-08	< 2.41	< 4.58E-06	< 1.34E-08	< 5.12E-09	< 3.4	< 6.66E-06	< 1.87E-08	< 7.87E-09
N-Nitroso-di-n-propylamine		< 4.79	< 9.55E-06	< 2.61E-08	< 1.10E-08	< 6.30	< 1.23E-05	< 3.40E-08	< 1.51E-08	< 3.63	< 6.89E-06	< 2.02E-08	< 7.71E-09	< 4.9	< 9.57E-06	< 2.68E-08	< 1.13E-08
Hexachloroethane	67-72-1	< 5.20	< 1.04E-05	< 2.83E-08	< 1.20E-08	< 6.84	< 1.33E-05	< 3.69E-08	< 1.64E-08	< 3.76	< 7.15E-06	< 2.09E-08	< 8.00E-09	< 5.3	< 1.03E-05	< 2.87E-08	< 1.21E-08
Nitrobenzene	98-95-3	< 2.67	< 5.34E-06	< 1.46E-08	< 6.16E-09	< 3.54	< 6.89E-06	< 1.91E-08	< 8.47E-09	< 2.13	< 4.05E-06	< 1.19E-08	< 4.53E-09	< 2.8	< 5.42E-06	< 1.52E-08	< 6.39E-09
Isophorone	78-59-1	< 1.47	< 2.94E-06	< 8.04E-09	< 3.39E-09	< 1.95	< 3.81E-06	< 1.05E-08	< 4.68E-09	1.04	3.45E-06	5.38E-09	0.00E+00	< 1.5	< 3.40E-06	< 7.99E-09	< 2.69E-09
2-Nitrophenol	88-75-5	< 4.64	< 9.27E-06	< 2.53E-08	< 1.07E-08	< 3.69	< 6.37E-06	< 1.76E-08	< 7.84E-09	< 3.67	< 6.97E-06	< 2.04E-08	< 7.80E-09	< 4.0	< 7.54E-06	< 2.11E-08	< 8.78E-09
2,4-Dimethylphenol	1300-71-6	< 3.32	< 6.62E-06	< 1.81E-08	< 7.64E-09	< 4.41	< 8.58E-06	< 2.38E-08	< 1.06E-08	< 2.32	< 4.41E-06	< 1.29E-08	< 4.94E-09	< 3.4	< 6.54E-06	< 1.83E-08	< 7.71E-09
bis(2-Chloroethoxy)methane		< 2.67	< 5.34E-06	< 1.46E-08	< 6.16E-09	< 3.54	< 6.89E-06	< 1.91E-08	< 8.47E-09	< 2.29	< 4.35E-06	< 1.27E-08	< 4.86E-09	< 2.8	< 5.52E-06	< 1.55E-08	< 6.50E-09
Benzoic acid	65-85-0	131.64	8.65E-05	7.34E-07	9.98E-08	83.78	1.58E-04	4.39E-07	1.95E-07	23.06	4.26E-05	1.25E-07	2.08E-08	79.5	9.58E-05	4.33E-07	1.05E-07
2,4-Dichlorophenol	120-83-2	< 3.43	< 6.85E-06	< 1.87E-08	< 7.90E-09	< 4.55	< 8.85E-06	< 2.45E-08	< 1.09E-08	< 2.52	< 4.79E-06	< 1.40E-08	< 5.38E-09	< 3.5	< 6.83E-06	< 1.91E-08	< 8.05E-09
1,2,4-Trichlorobenzene	120-83-2	< 3.05	< 6.08E-06	< 1.66E-08	< 7.02E-09	< 4.03	< 7.84E-06	< 2.17E-08	< 9.65E-09	< 2.08	< 3.94E-06	< 1.15E-08	< 4.41E-09	< 3.0	< 5.95E-06	< 1.66E-08	< 7.02E-09
Naphthalene	91-20-3	19.07	2.25E-05	1.02E-07	2.59E-08	19.17	3.62E-05	1.00E-07	4.46E-08	11.96	2.21E-05	6.49E-08	1.15E-08	16.7	2.69E-05	8.91E-08	2.73E-08
4-Chloroaniline		< 2.29	< 4.57E-06	< 1.25E-08	< 5.28E-09	< 3.03	< 5.89E-06	< 1.63E-08	< 7.25E-09	< 1.81	< 3.44E-06	< 1.01E-08	< 3.85E-09	< 2.4	< 4.63E-06	< 1.30E-08	< 5.46E-09
Hexachlorobutadiene	87-68-3	19.64	3.18E-05	1.02E-07	3.67E-08	14.55	2.46E-05	6.83E-08	3.03E-08	8.57	1.54E-05	4.51E-08	2.37E-09	14.3	2.39E-05	7.17E-08	2.31E-08
4-Chloro-3-methylphenol		< 4.03	< 8.04E-06	< 2.20E-08	< 9.27E-09	< 5.32	< 1.04E-05	< 2.87E-08	< 1.27E-08	< 2.46	< 4.71E-06	< 1.38E-08	< 5.27E-09	< 3.9	< 7.70E-06	< 2.15E-08	< 9.10E-09
2-Methylnaphthalene		1.89	2.61E-06	1.00E-08	3.01E-09	1.60	3.26E-06	9.03E-09	4.01E-09	1.49	2.70E-06	7.92E-09	8.51E-10	1.7	2.86E-06	8.98E-09	2.62E-09
Hexachlorocyclopentadiene	77-47-4	< 5.74	< 1.15E-05	< 3.13E-08	< 1.32E-08	< 7.93	< 1.54E-05	< 4.26E-08	< 1.89E-08	< 3.34	< 6.35E-06	< 1.86E-08	< 7.11E-09	< 5.7	< 1.11E-05	< 3.08E-08	< 1.31E-08
2,4,6-Trichlorophenol	88-06-2	< 5.06	< 1.01E-05	< 2.76E-08	< 1.17E-08	< 6.98	< 1.35E-05	< 3.75E-08	< 1.67E-08	< 2.95	< 5.61E-06	< 1.64E-08	< 6.28E-09	< 5.0	< 9.75E-06	< 2.72E-08	< 1.15E-08

TRC

Table I.1-8

Extruder EPDM Locations A and B Speciated Semivolatiles

Compound	CAS #	Run 1				Run 2				Run 3				Average			
		Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
2,4,5-Trichlorophenol	95-95-4	< 5.33	< 1.06E-05	< 2.91E-08	< 1.23E-08	< 7.35	< 1.43E-05	< 3.95E-08	< 1.75E-08	< 2.88	< 5.48E-06	< 1.61E-08	< 6.13E-09	< 5.2	< 1.01E-05	< 2.82E-08	< 1.20E-08
2-Chloronaphthalene	1335-88-2	0.22	2.06E-06	1.10E-09	2.37E-09	< 2.17	< 4.20E-06	< 1.16E-08	< 5.17E-09	< 1.17	< 2.23E-06	< 6.53E-09	< 2.50E-09	< 1.2	< 2.83E-06	< 6.43E-09	< 3.35E-09
2-Nitroaniline		< 5.46	< 1.09E-05	< 2.98E-08	< 1.26E-08	< 7.54	< 1.46E-05	< 4.05E-08	< 1.80E-08	< 3.88	< 7.37E-06	< 2.16E-08	< 8.25E-09	< 5.6	< 1.10E-05	< 3.06E-08	< 1.29E-08
Dimethylphthalate	131-11-13	< 1.41	< 2.82E-06	< 7.72E-09	< 3.26E-09	< 1.96	< 3.79E-06	< 1.05E-08	< 4.67E-09	0.29	1.85E-06	1.50E-09	0.00E+00	< 1.2	< 2.82E-06	< 6.58E-09	< 2.64E-09
2,6-Dinitrotoluene		< 5.76	< 1.15E-05	< 3.14E-08	< 1.33E-08	< 7.95	< 1.54E-05	< 4.27E-08	< 1.90E-08	< 3.64	< 6.93E-06	< 2.03E-08	< 7.75E-09	< 5.6	< 1.13E-05	< 3.15E-08	< 1.33E-08
2,4-Dinitrotoluene	121-14-2	< 4.45	< 8.89E-06	< 2.43E-08	< 1.03E-08	< 6.14	< 1.19E-05	< 3.30E-08	< 1.47E-08	< 2.74	< 5.20E-06	< 1.52E-08	< 5.82E-09	< 4.4	< 8.67E-06	< 2.42E-08	< 1.02E-08
Acenaphthylene		0.28	1.60E-06	1.44E-09	1.84E-09	0.75	1.25E-06	3.45E-09	1.53E-09	0.22	1.40E-06	1.14E-09	0.00E+00	0.4	1.42E-06	2.01E-09	1.13E-09
3-Nitroaniline		< 5.55	< 1.11E-05	< 3.03E-08	< 1.28E-08	< 7.67	< 1.49E-05	< 4.12E-08	< 1.83E-08	< 4.11	< 7.82E-06	< 2.29E-08	< 8.75E-09	< 5.8	< 1.13E-05	< 3.15E-08	< 1.33E-08
Acenaphthene		< 1.83	< 3.65E-06	< 9.98E-09	< 4.21E-09	1.36	2.24E-06	6.21E-09	0.00E+00	0.39	2.49E-06	2.02E-09	0.00E+00	< 1.2	< 2.79E-06	< 6.07E-09	< 1.40E-09
2,4-Dinitrophenol		< 18.08	< 3.61E-05	< 9.87E-08	< 4.17E-08	< 24.96	< 4.84E-05	< 1.34E-07	< 5.95E-08	< 9.42	< 1.79E-05	< 5.25E-08	< 2.00E-08	< 17.5	< 3.41E-05	< 9.51E-08	< 4.04E-08
4-Nitrophenol		< 13.49	< 2.69E-05	< 7.37E-08	< 3.11E-08	< 18.62	< 3.61E-05	< 1.00E-07	< 4.44E-08	< 7.70	< 1.46E-05	< 4.29E-08	< 1.64E-08	< 13.3	< 2.59E-05	< 7.22E-08	< 3.06E-08
Dibenzofuran	38178-38-	< 1.16	< 2.36E-06	< 6.46E-09	< 2.72E-09	< 1.63	< 3.15E-06	< 8.73E-09	< 3.88E-09	0.09	1.20E-06	4.66E-10	0.00E+00	< 1.0	< 2.24E-06	< 5.22E-09	< 2.20E-09
Diethylphthalate	84-66-2	4.14	4.27E-06	2.24E-08	4.93E-09	3.76	7.84E-06	2.12E-08	9.41E-09	2.38	4.55E-06	1.33E-08	3.94E-09	3.4	5.49E-06	1.90E-08	6.09E-09
4-Chlorophenyl-phenylether		< 3.35	< 6.69E-06	< 1.83E-08	< 7.72E-09	< 4.63	< 8.98E-06	< 2.49E-08	< 1.11E-08	< 1.83	< 3.48E-06	< 1.02E-08	< 3.90E-09	< 3.3	< 6.39E-06	< 1.78E-08	< 7.56E-09
Fluorene	86-73-7	< 1.36	< 2.75E-06	< 7.52E-09	< 3.18E-09	< 2.22	< 4.30E-06	< 1.19E-08	< 5.30E-09	0.29	1.85E-06	1.50E-09	0.00E+00	< 1.3	< 2.97E-06	< 6.98E-09	< 2.82E-09
4-Nitroaniline		< 6.22	< 1.24E-05	< 3.40E-08	< 1.43E-08	< 8.59	< 1.66E-05	< 4.61E-08	< 2.05E-08	< 4.56	< 8.67E-06	< 2.54E-08	< 9.70E-09	< 6.5	< 1.26E-05	< 3.52E-08	< 1.48E-08
4,6-Dinitro-2-methylphenol	85-01-8	< 11.79	< 2.36E-05	< 6.45E-08	< 2.72E-08	< 17.84	< 3.43E-05	< 9.49E-08	< 4.22E-08	< 5.79	< 1.10E-05	< 3.22E-08	< 1.23E-08	< 11.8	< 2.29E-05	< 6.39E-08	< 2.72E-08
4-Bromophenyl-phenyether	121-14-2	< 5.32	< 1.06E-05	< 2.91E-08	< 1.23E-08	< 8.04	< 1.54E-05	< 4.28E-08	< 1.90E-08	< 3.65	< 6.94E-06	< 2.03E-08	< 7.77E-09	< 5.7	< 1.10E-05	< 3.07E-08	< 1.30E-08
Hexachlorobenzene	118-74-1	< 4.08	< 8.16E-06	< 2.23E-08	< 9.41E-09	< 6.17	< 1.18E-05	< 3.28E-08	< 1.46E-08	< 2.88	< 5.48E-06	< 1.60E-08	< 6.13E-09	< 4.4	< 8.49E-06	< 2.37E-08	< 1.00E-08
Pentachlorobenzene	87-86-5	< 9.94	< 1.99E-05	< 5.44E-08	< 2.30E-08	< 15.06	< 2.89E-05	< 8.02E-08	< 3.56E-08	< 5.32	< 1.01E-05	< 2.96E-08	< 1.13E-08	< 10.1	< 1.96E-05	< 5.47E-08	< 2.33E-08
Phenanthrene	85-01-8	1.39	1.91E-06	7.32E-09	2.20E-09	1.06	2.05E-06	5.68E-09	2.52E-09	1.12	2.08E-06	6.08E-09	1.06E-09	1.2	2.01E-06	6.36E-09	1.93E-09
Anthracene	120-12-7	< 1.26	< 2.53E-06	< 6.92E-09	< 2.92E-09	< 1.90	< 3.66E-06	< 1.01E-08	< 4.50E-09	< 0.76	< 1.44E-06	< 4.23E-09	< 1.61E-09	< 1.3	< 2.54E-06	< 7.09E-09	< 3.01E-09
Di-n-butylphthalate		44.53	4.02E-05	2.44E-07	4.64E-08	91.07	2.03E-04	5.62E-07	2.50E-07	51.32	9.64E-05	2.88E-07	8.96E-08	62.3	1.14E-04	3.65E-07	1.29E-07
Fluoranthene	206-44-0	0.93	3.29E-06	4.74E-09	3.80E-09	1.24	2.05E-06	5.67E-09	2.52E-09	0.53	2.00E-06	2.74E-09	0.00E+00	0.9	2.45E-06	4.38E-09	2.11E-09
Pyrene	129-00-0	4.19	9.23E-06	2.13E-08	1.07E-08	1.58	2.62E-06	7.25E-09	3.22E-09	3.25	5.88E-06	1.72E-08	1.44E-09	3.0	5.91E-06	1.53E-08	5.11E-09
Butylbenzylphthalate		< 2.23	< 4.46E-06	< 1.22E-08	< 5.15E-09	< 4.19	< 7.83E-06	< 2.17E-08	< 9.64E-09	1.37	3.54E-06	7.83E-09	3.96E-09	< 2.6	< 5.28E-06	< 1.39E-08	< 6.25E-09
3,3'-Dichlorobenzidine	91-94-1	< 4.30	< 8.62E-06	< 2.36E-08	< 9.94E-09	< 8.08	< 1.51E-05	< 4.19E-08	< 1.86E-08	< 5.76	< 1.09E-05	< 3.21E-08	< 1.23E-08	< 6.0	< 1.16E-05	< 3.25E-08	< 1.36E-08
bis(2-Ethylhexyl)phthalate		13.67	1.54E-05	7.36E-08	1.77E-08	13.60	2.59E-05	7.18E-08	3.19E-08	10.08	1.90E-05	5.56E-08	1.36E-08	12.4	2.01E-05	6.70E-08	2.11E-08
Benzo(a)anthracene		< 1.59	< 3.18E-06	< 8.70E-09	< 3.87E-09	< 3.00	< 5.60E-06	< 1.55E-08	< 6.89E-09	< 1.42	< 2.70E-06	< 7.89E-09	< 3.02E-09	< 2.0	< 3.83E-06	< 1.07E-08	< 4.53E-09
Chrysene	218-01-9	< 1.76	< 3.53E-06	< 9.65E-09	< 4.07E-09	< 3.32	< 6.20E-06	< 1.72E-08	< 7.63E-09	< 1.55	< 2.95E-06	< 8.64E-09	< 3.30E-09	< 2.2	< 4.23E-06	< 1.18E-08	< 5.00E-09
Di-n-octylphthalate		< 1.16	< 2.31E-06	< 6.31E-09	< 2.66E-09	< 2.10	< 3.92E-06	< 1.09E-08	< 4.83E-09	< 1.07	< 2.02E-06	< 5.93E-09	< 2.26E-09	< 1.4	< 2.75E-06	< 7.70E-09	< 3.25E-09
Benzo(b)fluoranthene		< 1.74	< 3.48E-06	< 9.50E-09	< 4.01E-09	< 3.15	< 5.87E-06	< 1.63E-08	< 7.23E-09	< 2.01	< 3.82E-06	< 1.12E-08	< 4.27E-09	< 2.3	< 4.39E-06	< 1.23E-08	< 5.17E-09
Benzo(k)fluoranthene		< 1.88	< 3.76E-06	< 1.03E-08	< 4.33E-09	< 3.38	< 6.31E-06	< 1.75E-08	< 7.77E-09	< 2.10	< 3.98E-06	< 1.17E-08	< 4.46E-09	< 2.5	< 4.68E-06	< 1.31E-08	< 5.52E-09
Benzo(a)pyrene	50-32-8	< 1.83	< 3.66E-06	< 1.00E-08	< 4.22E-09	< 3.30	< 6.15E-06	< 1.70E-08	< 7.57E-09	< 2.42	< 4.59E-06	< 1.34E-08	< 5.14E-09	< 2.5	< 4.80E-06	< 1.35E-08	< 5.64E-09
Indeno(1,2,3-cd)pyrene		< 1.95	< 3.90E-06	< 1.07E-08	< 4.49E-09	< 3.52	< 6.57E-06	< 1.82E-08	< 8.08E-09	< 3.01	< 5.71E-06	< 1.67E-08	< 6.39E-09	< 2.8	< 5.39E-06	< 1.52E-08	< 6.32E-09
Dibenz(a,h)anthracene		< 2.25	< 4.48E-06	< 1.22E-08	< 5.17E-09	< 4.04	< 7.54E-06	< 2.09E-08	< 9.28E-09	< 3.89	< 7.38E-06	< 2.16E-08	< 8.25E-09	< 3.4	< 6.47E-06	< 1.82E-08	< 7.57E-09
Benzo(g,h,i)perylene		< 1.88	< 3.76E-06	< 1.03E-08	< 4.33E-09	< 3.39	< 6.33E-06	< 1.75E-08	< 7.79E-09	< 3.55	< 6.72E-06	< 1.97E-08	< 7.52E-09	< 2.9	< 5.60E-06	< 1.58E-08	< 6.55E-09
Total Detected		3041.75	4.73E-03	1.58E-05	5.46E-06	1907.06	3.39E-03	9.39E-06	4.17E-06	1153.87	2.12E-03	6.13E-06	5.76E-07	2024.6	3.38E-03	1.04E-05	3.38E-06
Total with non-detects		< 3456.82	< 5.56E-03	< 1.81E-05	< 6.41E-06	< 2490.86	< 4.51E-03	< 1.25E-05	< 5.55E-06	< 1430.46	< 2.64E-03	< 7.67E-06	< 1.16E-06	< 2459.4	< 4.24E-03	< 1.28E-05	< 4.38E-06

TRC

Table L1-9

Extruder EPDM Location A Speciated Semivolatiles

Compound	Run 1	Run 1	Run 1	Run 1	Run 2	Run 2	Run 2	Run 2	Run 3	Run 3	Run 3	Run 3	Average	Average	Average	Average
	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine	< 5.3	< 1.13E-05	< 3.09E-08	< 1.30E-08	< 6.6	< 1.55E-05	< 4.31E-08	< 1.91E-08	< 4.0	< 7.86E-06	< 2.30E-08	< 8.79E-09	< 5.4	< 1.16E-05	< 3.23E-08	< 1.37E-08
Cumene	21.8	4.67E-05	1.28E-07	5.38E-08	10.0	2.29E-05	6.33E-08	2.81E-08	11.9	2.32E-05	6.80E-08	2.60E-08	14.6	3.09E-05	8.63E-08	3.60E-08
Aniline	< 1.2	< 2.59E-06	< 7.08E-09	< 2.99E-09	0.3	6.67E-07	1.85E-09	8.21E-10	< 1.3	< 2.60E-06	< 7.62E-09	< 2.91E-09	< 0.9	< 1.95E-06	< 5.52E-09	< 2.24E-09
Benzyl Chloride	< 0.8	< 1.66E-06	< 4.53E-09	< 1.91E-09	< 1.0	< 2.26E-06	< 6.27E-09	< 2.79E-09	< 0.9	< 1.68E-06	< 4.93E-09	< 1.88E-09	< 0.9	< 1.87E-06	< 5.24E-09	< 2.19E-09
Acetophenone	322.0	6.89E-04	1.88E-06	7.95E-07	182.2	4.15E-04	1.15E-06	5.11E-07	142.6	2.79E-04	8.17E-07	3.12E-07	215.6	4.61E-04	1.28E-06	5.39E-07
n-Nitrosomorpholine	< 2.3	< 4.87E-06	< 1.33E-08	< 5.62E-09	< 3.0	< 6.72E-06	< 1.86E-08	< 6.27E-09	< 2.1	< 4.10E-06	< 1.20E-08	< 4.59E-09	< 2.4	< 5.23E-06	< 1.47E-08	< 6.16E-09
o-Toluidine	< 1.1	< 2.38E-06	< 6.50E-09	< 2.74E-09	< 1.4	< 3.29E-06	< 9.11E-09	< 4.05E-09	< 1.1	< 2.12E-06	< 6.21E-09	< 2.37E-09	< 1.2	< 2.60E-06	< 7.27E-09	< 3.05E-09
1,2-Dibromo-3-chloropropane	< 2.9	< 6.30E-06	< 1.72E-08	< 7.26E-09	< 3.8	< 8.65E-06	< 2.40E-08	< 1.06E-08	< 3.0	< 5.90E-06	< 1.73E-08	< 6.60E-09	< 3.3	< 6.95E-06	< 1.95E-08	< 8.17E-09
N,N-Diethylaniline	< 1.0	< 2.19E-06	< 5.99E-09	< 2.53E-09	< 1.3	< 3.03E-06	< 8.39E-09	< 3.73E-09	< 1.0	< 2.00E-06	< 5.87E-09	< 2.24E-09	< 1.1	< 2.41E-06	< 6.75E-09	< 2.83E-09
N,N-Dimethylaniline	< 1.0	< 2.12E-06	< 5.80E-09	< 2.45E-09	< 1.3	< 2.88E-06	< 7.99E-09	< 3.55E-09	< 1.1	< 2.10E-06	< 6.14E-09	< 2.35E-09	< 1.1	< 2.37E-06	< 6.64E-09	< 2.78E-09
o-Anisidine	< 2.0	< 4.22E-06	< 1.15E-08	< 4.87E-09	< 2.5	< 5.72E-06	< 1.58E-08	< 7.04E-09	< 2.3	< 4.45E-06	< 1.30E-08	< 4.98E-09	< 2.3	< 4.80E-06	< 1.35E-08	< 5.63E-09
1,4-Phenylenediamine	< 2.9	< 6.18E-06	< 1.69E-08	< 7.13E-09	< 3.7	< 8.34E-06	< 2.31E-08	< 1.03E-08	< 3.0	< 5.90E-06	< 1.73E-08	< 6.60E-09	< 3.2	< 6.81E-06	< 1.91E-08	< 8.00E-09
α,α,α-Trichlorotoluene	< 1.2	< 2.57E-06	< 7.01E-09	< 2.96E-09	< 1.5	< 3.46E-06	< 9.57E-09	< 4.25E-09	< 1.1	< 2.21E-06	< 6.48E-09	< 2.47E-09	< 1.3	< 2.74E-06	< 7.69E-09	< 3.23E-09
Hydroquinone	< 2.4	< 5.15E-06	< 1.41E-08	< 5.95E-09	< 3.1	< 6.96E-06	< 1.93E-08	< 8.56E-09	< 1.9	< 3.76E-06	< 1.10E-08	< 4.20E-09	< 2.5	< 5.29E-06	< 1.46E-08	< 6.24E-09
2-Chloroacetophenone	< 0.9	< 1.89E-06	< 5.16E-09	< 2.18E-09	< 1.1	< 2.55E-06	< 7.07E-09	< 3.14E-09	< 0.8	< 1.59E-06	< 4.66E-09	< 1.78E-09	< 0.9	< 2.01E-06	< 5.63E-09	< 2.37E-09
Biphenyl	< 0.8	< 1.68E-06	< 4.59E-09	< 1.94E-09	< 1.0	< 2.26E-06	< 6.27E-09	< 2.79E-09	< 0.8	< 1.61E-06	< 4.72E-09	< 1.80E-09	< 0.9	< 1.85E-06	< 5.20E-09	< 2.18E-09
Trifluralin	< 3.9	< 8.25E-06	< 2.26E-08	< 9.52E-09	< 4.9	< 1.12E-05	< 3.11E-08	< 1.38E-08	< 3.2	< 6.17E-06	< 1.81E-08	< 6.91E-09	< 4.0	< 8.55E-06	< 2.39E-08	< 1.01E-08
4-Aminobiphenyl	< 1.1	< 2.29E-06	< 6.25E-09	< 2.64E-09	< 1.4	< 3.10E-06	< 8.58E-09	< 3.81E-09	< 0.9	< 1.75E-06	< 5.13E-09	< 1.96E-09	< 1.1	< 2.38E-06	< 6.65E-09	< 2.80E-09
Pentachloronitrobenzene	< 6.4	< 1.36E-05	< 3.72E-08	< 1.57E-08	< 8.1	< 1.85E-05	< 5.14E-08	< 2.28E-08	< 5.6	< 1.12E-05	< 3.29E-08	< 1.26E-08	< 6.8	< 1.45E-05	< 4.05E-08	< 1.70E-08
4-Nitrobiphenyl	< 2.2	< 4.66E-06	< 1.28E-08	< 5.38E-09	< 2.8	< 6.34E-06	< 1.76E-08	< 7.80E-09	< 2.0	< 3.89E-06	< 1.14E-08	< 4.36E-09	< 2.3	< 4.97E-06	< 1.39E-08	< 5.85E-09
Benzidine	< 1.6	< 3.36E-06	< 9.18E-09	< 3.87E-09	< 2.0	< 4.55E-06	< 1.26E-08	< 5.60E-09	2.8	5.44E-06	1.59E-08	6.08E-09	< 2.1	< 4.45E-06	< 1.26E-08	< 5.19E-09
4,4'-Methylenedianiline	< 2.8	< 5.92E-06	< 1.62E-08	< 6.83E-09	< 3.5	< 8.01E-06	< 2.22E-08	< 9.86E-09	< 3.1	< 5.99E-06	< 1.75E-08	< 6.70E-09	< 3.1	< 6.64E-06	< 1.86E-08	< 7.80E-09
Dimethylaminoazobenzene	< 2.2	< 4.71E-06	< 1.29E-08	< 5.44E-09	< 2.8	< 6.36E-06	< 1.76E-08	< 7.83E-09	< 2.3	< 4.56E-06	< 1.34E-08	< 5.10E-09	< 2.4	< 5.21E-06	< 1.46E-08	< 6.12E-09
3,3'-Dimethylbenzidine	< 1.4	< 2.89E-06	< 7.91E-09	< 3.34E-09	< 1.7	< 3.88E-06	< 1.08E-08	< 4.78E-09	< 1.6	< 3.04E-06	< 8.91E-09	< 3.40E-09	< 1.5	< 3.27E-06	< 9.19E-09	< 3.84E-09
3,3'-Dimethoxybenzidine	< 3.2	< 6.76E-06	< 1.85E-08	< 7.80E-09	< 4.0	< 9.15E-06	< 2.54E-08	< 1.13E-08	< 5.9	< 1.15E-05	< 3.37E-08	< 1.29E-08	< 4.4	< 9.14E-06	< 2.59E-08	< 1.07E-08
Methylene bis-chloroaniline	< 4.1	< 8.74E-06	< 2.39E-08	< 1.01E-08	< 5.2	< 1.18E-05	< 3.27E-08	< 1.45E-08	< 6.3	< 1.23E-05	< 3.59E-08	< 1.37E-08	< 5.2	< 1.09E-05	< 3.08E-08	< 1.28E-08
3-Furaldehyde	< 4.1	< 8.72E-06	< 2.38E-08	< 1.01E-08	< 5.3	< 1.20E-05	< 3.32E-08	< 1.48E-08	< 3.1	< 6.13E-06	< 1.79E-08	< 6.86E-09	< 4.2	< 8.95E-06	< 2.50E-08	< 1.06E-08
2-Furaldehyde	< 3.6	< 7.65E-06	< 2.09E-08	< 8.83E-09	< 4.6	< 1.05E-05	< 2.92E-08	< 1.30E-08	< 2.7	< 5.35E-06	< 1.57E-08	< 5.98E-09	< 3.6	< 7.84E-06	< 2.19E-08	< 9.26E-09
Cyclohexylamine	< 2.3	< 4.94E-06	< 1.35E-08	< 5.70E-09	< 3.0	< 6.79E-06	< 1.88E-08	< 8.36E-09	< 2.6	< 5.07E-06	< 1.48E-08	< 5.67E-09	< 2.6	< 5.60E-06	< 1.57E-08	< 6.58E-09
N-Nitrosodiethylamine	< 3.9	< 8.44E-06	< 2.31E-08	< 9.74E-09	< 5.1	< 1.16E-05	< 3.22E-08	< 1.43E-08	< 4.0	< 7.86E-06	< 2.30E-08	< 8.79E-09	< 4.4	< 9.31E-06	< 2.61E-08	< 1.09E-08
Cyclohexanone	< 2.1	< 4.45E-06	< 1.22E-08	< 5.14E-09	< 2.7	< 6.12E-06	< 1.70E-08	< 7.54E-09	1.1	2.17E-06	6.34E-09	2.42E-09	< 2.0	< 4.25E-06	< 1.18E-08	< 5.03E-09
1,3-Cyclooctadiene	< 1.9	< 4.15E-06	< 1.13E-08	< 4.79E-09	< 2.5	< 5.72E-06	< 1.58E-08	< 7.04E-09	< 1.8	< 3.62E-06	< 1.06E-08	< 4.05E-09	< 2.1	< 4.50E-06	< 1.26E-08	< 5.29E-09
1,5-Cyclooctadiene	< 4.4	< 9.44E-06	< 2.58E-08	< 1.09E-08	< 5.7	< 1.30E-05	< 3.61E-08	< 1.60E-08	< 4.1	< 7.93E-06	< 2.32E-08	< 8.87E-09	< 4.7	< 1.01E-05	< 2.84E-08	< 1.19E-08
Camphene	< 2.0	< 4.31E-06	< 1.18E-08	< 4.98E-09	< 2.6	< 5.93E-06	< 1.64E-08	< 7.30E-09	< 2.1	< 4.08E-06	< 1.19E-08	< 4.56E-09	< 2.2	< 4.78E-06	< 1.34E-08	< 5.61E-09
Benzaldehyde	2.1	4.59E-06	1.26E-08	5.30E-09	1.1	2.45E-06	6.80E-09	3.02E-09	2.7	5.37E-06	1.57E-08	6.01E-09	2.0	4.14E-06	1.17E-08	4.78E-09
Benzonitrile	< 0.8	< 1.66E-06	< 4.53E-09	< 1.91E-09	< 1.0	< 2.29E-06	< 6.34E-09	< 2.82E-09	< 0.9	< 1.80E-06	< 5.26E-09	< 2.01E-09	< 0.9	< 1.91E-06	< 5.38E-09	< 2.25E-09

TRC

Table L1-9

Extruder EPDM Location A Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
Isooctanol	< 10.2	< 2.18E-05	< 5.97E-08	< 2.52E-08	< 13.2	< 3.01E-05	< 8.33E-08	< 3.70E-08	< 8.7	< 1.70E-05	< 4.99E-08	< 1.91E-08	< 10.7	< 2.30E-05	< 6.43E-08	< 2.71E-08
1,2,4-Trimethylbenzene	2.3	4.97E-06	1.36E-08	5.73E-09	1.4	3.29E-06	9.11E-09	4.05E-09	2.2	4.29E-06	1.25E-08	4.79E-09	2.0	4.18E-06	1.17E-08	4.86E-09
3-Methylstyrene	< 1.2	< 2.64E-06	< 7.20E-09	< 3.04E-09	< 1.6	< 3.62E-06	< 1.00E-08	< 4.48E-09	< 1.2	< 2.42E-06	< 7.08E-09	< 2.71E-09	< 1.4	< 2.89E-06	< 8.11E-09	< 3.40E-09
4-Methylstyrene	< 1.2	< 2.57E-06	< 7.01E-09	< 2.96E-09	< 1.5	< 3.53E-06	< 9.77E-09	< 4.34E-09	< 1.4	< 2.74E-06	< 8.03E-09	< 3.07E-09	< 1.4	< 2.94E-06	< 8.27E-09	< 3.46E-09
4-Chlorostyrene	< 1.4	< 3.10E-06	< 8.48E-09	< 3.58E-09	< 1.9	< 4.27E-06	< 1.18E-08	< 5.25E-09	< 1.6	< 3.16E-06	< 9.24E-09	< 3.53E-09	< 1.6	< 3.51E-06	< 9.85E-09	< 4.12E-09
1-Dodecene	< 7.9	< 1.70E-05	< 4.65E-08	< 1.96E-08	< 10.1	< 2.30E-05	< 6.37E-08	< 2.83E-08	< 7.7	< 1.50E-05	< 4.41E-08	< 1.68E-08	< 8.6	< 1.83E-05	< 5.14E-08	< 2.16E-08
Phthalimide	< 2.6	< 5.67E-06	< 1.55E-08	< 6.54E-09	< 3.4	< 7.72E-06	< 2.14E-08	< 9.50E-09	< 2.6	< 5.05E-06	< 1.48E-08	< 5.65E-09	< 2.9	< 6.14E-06	< 1.72E-08	< 7.23E-09
Diphenylamine	10.0	2.15E-05	5.87E-08	2.48E-08	4.1	9.32E-06	2.58E-08	1.15E-08	4.3	8.36E-06	2.45E-08	9.36E-09	6.1	1.31E-05	3.63E-08	1.52E-08
Pyridine	< 2.3	< 4.90E-06	< 1.34E-08	< 5.65E-09	< 3.0	< 6.74E-06	< 1.87E-08	< 8.30E-09	< 2.5	< 4.79E-06	< 1.40E-08	< 5.36E-09	< 2.6	< 5.48E-06	< 1.54E-08	< 6.44E-09
Phenol	19.9	4.26E-05	1.17E-07	4.92E-08	22.6	5.15E-05	1.43E-07	6.34E-08	22.4	4.38E-05	1.28E-07	4.90E-08	21.7	4.60E-05	1.29E-07	5.39E-08
bis(2-Chloroethyl)ether	< 1.6	< 3.47E-06	< 9.50E-09	< 4.01E-09	< 2.1	< 4.79E-06	< 1.33E-08	< 5.90E-09	< 1.9	< 3.80E-06	< 1.11E-08	< 4.25E-09	< 1.9	< 4.02E-06	< 1.13E-08	< 4.72E-09
2-Chlorophenol	< 1.3	< 2.75E-06	< 7.52E-09	< 3.17E-09	< 1.7	< 3.79E-06	< 1.05E-08	< 4.66E-09	< 1.5	< 2.90E-06	< 8.50E-09	< 3.25E-09	< 1.5	< 3.15E-06	< 8.84E-09	< 3.70E-09
1,3-Dichlorobenzene	< 1.3	< 2.68E-06	< 7.33E-09	< 3.09E-09	< 1.6	< 3.67E-06	< 1.02E-08	< 4.52E-09	< 1.3	< 2.53E-06	< 7.42E-09	< 2.84E-09	< 1.4	< 2.96E-06	< 8.31E-09	< 3.48E-09
1,4-Dichlorobenzene	< 1.2	< 2.50E-06	< 6.82E-09	< 2.88E-09	< 1.5	< 3.43E-06	< 9.51E-09	< 4.22E-09	< 1.3	< 2.51E-06	< 7.35E-09	< 2.81E-09	< 1.3	< 2.81E-06	< 7.89E-09	< 3.30E-09
1,2-Dichlorobenzen	< 1.3	< 2.70E-06	< 7.40E-09	< 3.12E-09	< 1.6	< 3.69E-06	< 1.02E-08	< 4.55E-09	< 1.4	< 2.65E-06	< 7.76E-09	< 2.96E-09	< 1.4	< 3.02E-06	< 8.46E-09	< 3.54E-09
2,2'-oxybis(1-Chloropropane)	< 1.3	< 2.84E-06	< 7.78E-09	< 3.28E-09	< 1.7	< 3.91E-06	< 1.08E-08	< 4.81E-09	< 1.8	< 3.53E-06	< 1.03E-08	< 3.94E-09	< 1.6	< 3.43E-06	< 9.64E-09	< 4.01E-09
Benzyl alcohol	< 2.6	< 5.48E-06	< 1.50E-08	< 6.32E-09	< 3.3	< 7.53E-06	< 2.09E-08	< 9.27E-09	4.3	8.46E-06	2.48E-08	9.46E-09	< 3.4	< 7.16E-06	< 2.02E-08	< 8.35E-09
2-Methylphenol	< 1.7	< 3.71E-06	< 1.01E-08	< 4.28E-09	1.2	2.78E-06	7.66E-09	3.40E-09	< 1.6	< 3.43E-06	< 1.01E-08	< 3.84E-09	< 1.6	< 3.30E-06	< 9.28E-09	< 3.84E-09
3/4-Methylphenol	< 1.6	< 3.50E-06	< 9.56E-09	< 4.04E-09	< 2.1	< 4.81E-06	< 1.33E-08	< 5.92E-09	< 1.7	< 3.27E-06	< 9.58E-09	< 3.66E-09	< 1.8	< 3.86E-06	< 1.08E-08	< 4.54E-09
N-Nitroso-di-n-propylamine	< 2.3	< 4.94E-06	< 1.35E-08	< 5.70E-09	< 3.0	< 6.79E-06	< 1.88E-08	< 8.36E-09	< 2.5	< 4.93E-06	< 1.44E-08	< 5.52E-09	< 2.6	< 5.56E-06	< 1.56E-08	< 6.53E-09
Hexachloroethane	< 2.5	< 5.36E-06	< 1.47E-08	< 6.19E-09	< 3.2	< 7.39E-06	< 2.05E-08	< 9.09E-09	< 2.6	< 5.11E-06	< 1.50E-08	< 5.72E-09	< 2.8	< 5.96E-06	< 1.67E-08	< 7.00E-09
Nitrobenzene	< 1.3	< 2.80E-06	< 7.65E-09	< 3.23E-09	< 1.7	< 3.79E-06	< 1.05E-08	< 4.66E-09	< 1.5	< 2.90E-06	< 8.50E-09	< 3.25E-09	< 1.5	< 3.16E-06	< 8.88E-09	< 3.71E-09
Isophorone	< 0.7	< 1.54E-06	< 4.21E-09	< 1.78E-09	< 0.9	< 2.10E-06	< 5.81E-09	< 2.58E-09	< 0.8	< 1.61E-06	< 4.72E-09	< 1.80E-09	< 0.8	< 1.75E-06	< 4.91E-09	< 2.05E-09
2-Nitrophenol	< 2.3	< 4.87E-06	< 1.33E-08	< 5.62E-09	< 0.4	< 9.77E-07	< 2.71E-09	< 1.20E-09	< 2.5	< 4.98E-06	< 1.46E-08	< 5.57E-09	< 1.8	< 3.61E-06	< 1.02E-08	< 4.13E-09
2,4-Dimethylphenol	< 1.6	< 3.47E-06	< 9.50E-09	< 4.01E-09	< 2.1	< 4.72E-06	< 1.31E-08	< 5.81E-09	< 1.6	< 3.16E-06	< 9.24E-09	< 3.53E-09	< 1.8	< 3.78E-06	< 1.06E-08	< 4.45E-09
bis(2-Chloroethoxy)methane	< 1.3	< 2.80E-06	< 7.65E-09	< 3.23E-09	< 1.7	< 3.79E-06	< 1.05E-08	< 4.66E-09	< 1.6	< 3.11E-06	< 9.11E-09	< 3.48E-09	< 1.5	< 3.23E-06	< 9.09E-09	< 3.79E-09
Benzoic acid	65.1	1.82E-04	4.98E-07	2.10E-07	28.6	6.52E-05	1.81E-07	8.02E-08	9.5	1.85E-05	5.43E-08	2.08E-08	41.1	8.86E-05	2.44E-07	1.04E-07
2,4-Dichlorophenol	< 1.7	< 3.59E-06	< 9.82E-09	< 4.14E-09	< 2.1	< 4.86E-06	< 1.35E-08	< 5.98E-09	< 1.8	< 3.43E-06	< 1.01E-08	< 3.84E-09	< 1.9	< 3.96E-06	< 1.11E-08	< 4.66E-09
1,2,4-Trichlorobenzene	< 1.5	< 3.19E-06	< 8.73E-09	< 3.69E-09	< 1.9	< 4.31E-06	< 1.20E-08	< 5.31E-09	< 1.4	< 2.81E-06	< 8.23E-09	< 3.15E-09	< 1.6	< 3.44E-06	< 9.64E-09	< 4.05E-09
Naphthalene	7.0	1.49E-05	4.09E-08	1.72E-08	6.5	1.48E-05	4.10E-08	1.82E-08	5.3	1.03E-05	3.01E-08	1.15E-08	6.2	1.33E-05	3.73E-08	1.57E-08
4-Chloroaniline	< 1.1	< 2.40E-06	< 6.57E-09	< 2.77E-09	< 1.4	< 3.24E-06	< 8.88E-09	< 3.99E-09	< 1.3	< 2.47E-06	< 7.22E-09	< 2.76E-09	< 1.3	< 2.70E-06	< 7.59E-09	< 3.17E-09
Hexachlorobutadiene	2.5	5.41E-06	1.48E-08	6.24E-09	0.8	1.93E-06	5.35E-09	2.38E-09	1.1	2.12E-06	6.21E-09	2.37E-09	1.5	3.15E-06	8.78E-09	3.66E-09
4-Chloro-3-methylphenol	< 2.0	< 4.22E-06	< 1.15E-08	< 4.87E-09	< 2.5	< 5.70E-06	< 1.58E-08	< 7.01E-09	< 1.7	< 3.36E-06	< 9.85E-09	< 3.76E-09	< 2.1	< 4.43E-06	< 1.24E-08	< 5.21E-09
2-Methylnaphthalene	0.5	1.05E-06	2.87E-09	1.21E-09	0.4	9.29E-07	2.58E-09	1.14E-09	0.4	7.60E-07	2.23E-09	8.51E-10	0.4	9.13E-07	2.56E-09	1.07E-09
Hexachlorocyclopentadiene	< 2.8	< 6.06E-06	< 1.66E-08	< 7.00E-09	< 3.6	< 8.27E-06	< 2.29E-08	< 1.02E-08	< 2.3	< 4.59E-06	< 1.34E-08	< 5.13E-09	< 2.9	< 6.31E-06	< 1.76E-08	< 7.43E-09
2,4,6-Trichlorophenol	< 2.5	< 5.34E-06	< 1.46E-08	< 6.16E-09	< 3.2	< 7.29E-06	< 2.02E-08	< 8.98E-09	< 2.1	< 4.06E-06	< 1.19E-08	< 4.54E-09	< 2.6	< 5.56E-06	< 1.56E-08	< 6.56E-09

TRC

Table L1-9

Extruder EPDM Location A Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber
2,4,5-Trichlorophenol	< 2.6	< 5.64E-06	< 1.54E-08	< 6.51E-09	< 3.4	< 7.67E-06	< 2.13E-08	< 9.44E-09	< 2.0	< 3.96E-06	< 1.16E-08	< 4.43E-09	< 2.7	< 5.76E-06	< 1.61E-08	< 6.80E-09
2-Chloronaphthalene	< 0.8	< 1.68E-06	< 4.53E-09	< 1.91E-09	< 1.0	< 2.26E-06	< 6.27E-09	< 2.79E-09	< 0.8	< 1.61E-06	< 4.72E-09	< 1.80E-09	< 0.9	< 1.84E-06	< 5.17E-09	< 2.17E-09
2-Nitroaniline	< 2.7	< 5.78E-06	< 1.58E-08	< 6.67E-09	< 3.5	< 7.86E-06	< 2.18E-08	< 9.68E-09	< 2.7	< 5.32E-06	< 1.56E-08	< 5.96E-09	< 3.0	< 6.32E-06	< 1.77E-08	< 7.44E-09
Dimethylphthalate	< 0.7	< 1.49E-06	< 4.08E-09	< 1.72E-09	< 0.9	< 2.05E-06	< 5.68E-09	< 2.52E-09	< 0.7	< 1.34E-06	< 3.91E-09	< 1.50E-09	< 0.8	< 1.63E-06	< 4.56E-09	< 1.91E-09
2,6-Dinitrotoluene	< 2.8	< 6.09E-06	< 1.66E-08	< 7.02E-09	< 3.6	< 8.29E-06	< 2.30E-08	< 1.02E-08	< 2.6	< 5.00E-06	< 1.46E-08	< 5.59E-09	< 3.0	< 6.46E-06	< 1.81E-08	< 7.61E-09
2,4-Dinitrotoluene	< 2.2	< 4.71E-06	< 1.29E-08	< 5.44E-09	< 2.8	< 6.41E-06	< 1.78E-08	< 7.89E-09	< 1.9	< 3.76E-06	< 1.10E-08	< 4.20E-09	< 2.3	< 4.96E-06	< 1.39E-08	< 5.84E-09
Acenaphthylene	< 0.5	< 1.07E-06	< 2.93E-09	< 1.24E-09	< 0.6	< 1.45E-06	< 4.03E-09	< 1.79E-09	< 0.5	< 1.01E-06	< 2.97E-09	< 1.13E-09	< 0.6	< 1.18E-06	< 3.31E-09	< 1.39E-09
3-Nitroaniline	< 2.7	< 5.88E-06	< 1.61E-08	< 6.78E-09	< 3.5	< 8.01E-06	< 2.22E-08	< 9.86E-09	< 2.9	< 5.64E-06	< 1.65E-08	< 6.32E-09	< 3.0	< 6.51E-06	< 1.83E-08	< 7.65E-09
Acenaphthene	< 0.9	< 1.94E-06	< 5.29E-09	< 2.23E-09	< 1.2	< 2.62E-06	< 7.26E-09	< 3.23E-09	< 0.9	< 1.80E-06	< 5.28E-09	< 2.01E-09	< 1.0	< 2.12E-06	< 5.94E-09	< 2.49E-09
2,4-Dinitrophenol	< 8.9	< 1.91E-05	< 5.23E-08	< 2.21E-08	< 11.4	< 2.60E-05	< 7.22E-08	< 3.21E-08	< 6.6	< 1.29E-05	< 3.79E-08	< 1.45E-08	< 9.0	< 1.94E-05	< 5.41E-08	< 2.29E-08
4-Nitrophenol	< 6.7	< 1.43E-05	< 3.90E-08	< 1.65E-08	< 8.5	< 1.94E-05	< 5.38E-08	< 2.39E-08	< 5.4	< 1.06E-05	< 3.10E-08	< 1.18E-08	< 6.9	< 1.48E-05	< 4.13E-08	< 1.74E-08
Dibenzofuran	< 0.6	< 1.26E-06	< 3.44E-09	< 1.45E-09	< 0.7	< 1.69E-06	< 4.69E-09	< 2.08E-09	< 0.5	< 1.04E-06	< 3.04E-09	< 1.16E-09	< 0.6	< 1.33E-06	< 3.72E-09	< 1.57E-09
Diethylphthalate	1.8	3.94E-06	1.08E-08	4.55E-09	2.1	4.67E-06	1.29E-08	5.75E-09	1.8	3.53E-06	1.03E-08	3.94E-09	1.9	4.05E-06	1.13E-08	4.75E-09
4-Chlorophenyl-phenylether	< 1.7	< 3.54E-06	< 9.69E-09	< 4.09E-09	< 2.1	< 4.64E-06	< 1.34E-08	< 5.95E-09	< 1.3	< 2.51E-06	< 7.35E-09	< 2.81E-09	< 1.7	< 3.63E-06	< 1.01E-08	< 4.28E-09
Fluorene	< 0.8	< 1.70E-06	< 4.65E-09	< 1.96E-09	< 1.0	< 2.31E-06	< 6.41E-09	< 2.85E-09	< 0.7	< 1.34E-06	< 3.91E-09	< 1.50E-09	< 0.8	< 1.78E-06	< 4.99E-09	< 2.10E-09
4-Nitroaniline	< 3.1	< 6.58E-06	< 1.80E-08	< 7.59E-09	< 3.9	< 8.96E-06	< 2.48E-08	< 1.10E-08	< 3.2	< 6.27E-06	< 1.84E-08	< 7.01E-09	< 3.4	< 7.27E-06	< 2.04E-08	< 8.54E-09
4,6-Dinitro-2-methylphenol	< 6.0	< 1.28E-05	< 3.50E-08	< 1.48E-08	< 7.7	< 1.74E-05	< 4.83E-08	< 2.15E-08	< 4.1	< 7.93E-06	< 2.32E-08	< 8.87E-09	< 5.9	< 1.27E-05	< 3.55E-08	< 1.50E-08
4-Bromophenyl-phenyether	< 2.7	< 5.78E-06	< 1.58E-08	< 6.67E-09	< 3.5	< 7.86E-06	< 2.18E-08	< 9.68E-09	< 2.6	< 5.00E-06	< 1.46E-08	< 5.59E-09	< 2.9	< 6.22E-06	< 1.74E-08	< 7.32E-09
Hexachlorobenzene	< 2.1	< 4.43E-06	< 1.21E-08	< 5.11E-09	< 2.6	< 6.03E-06	< 1.67E-08	< 7.42E-09	< 2.0	< 3.94E-06	< 1.15E-08	< 4.41E-09	< 2.2	< 4.80E-06	< 1.35E-08	< 5.65E-09
Pentachlorophenol	< 5.0	< 1.08E-05	< 2.95E-08	< 1.25E-08	< 6.5	< 1.47E-05	< 4.08E-08	< 1.81E-08	< 3.7	< 7.28E-06	< 2.13E-08	< 8.15E-09	< 5.1	< 1.09E-05	< 3.05E-08	< 1.29E-08
Phenanthrene	0.4	7.70E-07	2.10E-09	8.86E-10	0.4	8.58E-07	2.38E-09	1.06E-09	0.5	9.45E-07	2.77E-09	1.06E-09	0.4	8.57E-07	2.42E-09	1.00E-09
Anthracene	< 0.6	< 1.38E-06	< 3.76E-09	< 1.59E-09	< 0.8	< 1.86E-06	< 5.15E-09	< 2.29E-09	< 0.5	< 1.04E-06	< 3.04E-09	< 1.16E-09	< 0.7	< 1.42E-06	< 3.98E-09	< 1.68E-09
Di-n-butylphthalate	22.9	4.90E-05	1.34E-07	5.65E-08	74.8	1.70E-04	4.72E-07	2.10E-07	41.0	8.01E-05	2.35E-07	8.96E-08	46.2	9.98E-05	2.80E-07	1.19E-07
Fluoranthene	< 0.7	< 1.56E-06	< 4.27E-09	< 1.80E-09	< 0.9	< 2.12E-06	< 5.88E-09	< 2.61E-09	< 0.5	< 1.06E-06	< 3.10E-09	< 1.19E-09	< 0.7	< 1.58E-06	< 4.42E-09	< 1.87E-09
Pyrene	< 0.7	< 1.45E-06	< 3.95E-09	< 1.67E-09	< 0.3	< 6.67E-07	< 1.85E-09	< 8.21E-10	0.7	1.29E-06	3.78E-09	1.44E-09	< 0.5	< 1.13E-06	< 3.19E-09	< 1.31E-09
Butylbenzylphthalate	< 1.1	< 2.45E-06	< 6.69E-09	< 2.83E-09	< 1.5	< 3.31E-06	< 9.18E-09	< 4.06E-09	1.4	2.67E-06	7.83E-09	2.99E-09	< 1.3	< 2.81E-06	< 7.90E-09	< 3.30E-09
3,3'-Dichlorobenzidine	< 2.2	< 4.73E-06	< 1.29E-08	< 5.46E-09	< 2.8	< 6.39E-06	< 1.77E-08	< 7.86E-09	< 4.0	< 7.86E-06	< 2.30E-08	< 8.79E-09	< 3.0	< 6.33E-06	< 1.79E-08	< 7.37E-09
bis(2-Ethylhexyl)phthalate	5.4	1.15E-05	3.16E-08	1.33E-08	4.9	1.12E-05	3.11E-08	1.38E-08	6.2	1.21E-05	3.56E-08	1.36E-08	5.5	1.16E-05	3.27E-08	1.36E-08
Benzo(a)anthracene	< 0.8	< 1.75E-06	< 4.78E-09	< 2.02E-09	< 1.0	< 2.36E-06	< 6.54E-09	< 2.90E-09	< 1.0	< 1.94E-06	< 5.67E-09	< 2.17E-09	< 0.9	< 2.01E-06	< 5.66E-09	< 2.38E-09
Chrysene	< 0.9	< 1.94E-06	< 5.29E-09	< 2.23E-09	< 1.2	< 2.62E-06	< 7.26E-09	< 3.23E-09	< 1.1	< 2.12E-06	< 6.21E-09	< 2.37E-09	< 1.0	< 2.23E-06	< 6.25E-09	< 2.61E-09
Di-n-octylphthalate	< 0.6	< 1.19E-06	< 3.25E-09	< 1.37E-09	< 0.7	< 1.64E-06	< 4.56E-09	< 2.02E-09	< 0.7	< 1.41E-06	< 4.12E-09	< 1.57E-09	< 0.7	< 1.41E-06	< 3.97E-09	< 1.66E-09
Benzo(b)fluoranthene	< 0.8	< 1.80E-06	< 4.91E-09	< 2.07E-09	< 1.1	< 2.45E-06	< 6.80E-09	< 3.02E-09	< 1.4	< 2.65E-06	< 7.76E-09	< 2.96E-09	< 1.1	< 2.30E-06	< 6.49E-09	< 2.69E-09
Benzo(k)fluoranthene	< 0.9	< 1.94E-06	< 5.29E-09	< 2.23E-09	< 1.2	< 2.65E-06	< 7.33E-09	< 3.26E-09	< 1.4	< 2.76E-06	< 8.10E-09	< 3.09E-09	< 1.2	< 2.45E-06	< 6.91E-09	< 2.86E-09
Benzo(a)pyrene	< 0.9	< 1.89E-06	< 5.16E-09	< 2.18E-09	< 1.1	< 2.57E-06	< 7.13E-09	< 3.17E-09	< 1.6	< 3.18E-06	< 9.31E-09	< 3.56E-09	< 1.2	< 2.55E-06	< 7.20E-09	< 2.97E-09
Indeno(1,2,3-cd)pyrene	< 0.9	< 2.01E-06	< 5.48E-09	< 2.31E-09	< 1.2	< 2.74E-06	< 7.59E-09	< 3.37E-09	< 2.0	< 3.96E-06	< 1.16E-08	< 4.43E-09	< 1.4	< 2.90E-06	< 8.23E-09	< 3.37E-09
Dibenz(a,h)anthracene	< 1.1	< 2.31E-06	< 6.31E-09	< 2.66E-09	< 1.4	< 3.15E-06	< 8.72E-09	< 3.87E-09	< 2.6	< 5.11E-06	< 1.50E-08	< 5.72E-09	< 1.7	< 3.52E-06	< 1.00E-08	< 4.09E-09
Benzo(g,h,i)perylene	< 0.9	< 1.94E-06	< 5.29E-09	< 2.23E-09	< 1.2	< 2.65E-06	< 7.33E-09	< 3.26E-09	< 2.4	< 4.65E-06	< 1.36E-08	< 5.21E-09	< 1.5	< 3.08E-06	< 8.75E-09	< 3.57E-09
Total Detected	503.8	4.51E-04	2.95E-06	5.20E-07	326.4	7.78E-04	2.16E-06	9.57E-07	262.0	9.10E-04	1.50E-06	5.73E-07	365.2	7.81E-04	2.18E-06	9.16E-07
Total non-detects	< 714.6	< 1.53E-03	< 4.18E-06	< 1.78E-06	< 604.8	< 1.38E-03	< 3.82E-06	< 1.70E-06	< 465.3	< 9.10E-04	< 2.66E-06	< 1.02E-06	< 594.9	< 1.27E-03	< 3.55E-06	< 1.49E-06

TRC

Table L1-10

Extruder EPDM Location B Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine	< 5.7	< 1.05E-05	< 2.88E-08	< 1.21E-08	< 7.6	< 1.25E-05	< 3.47E-08	< 1.54E-08	< 1.8	< 3.13E-06	< 9.16E-09	< 3.50E-09	< 5.0	< 8.72E-06	< 2.42E-08	< 1.03E-08
Cumene	113.2	2.10E-04	5.75E-07	2.43E-07	91.6	1.51E-04	4.19E-07	1.86E-07	51.3	9.08E-05	2.66E-07	1.02E-07	85.4	1.51E-04	4.20E-07	1.77E-07
Aniline	< 1.3	< 2.40E-06	< 6.55E-09	< 2.77E-09	< 1.7	< 2.86E-06	< 7.94E-09	< 3.53E-09	< 0.8	< 1.04E-06	< 3.05E-09	< 1.17E-09	< 1.2	< 2.10E-06	< 5.85E-09	< 2.49E-09
Benzyl Chloride	< 0.8	< 1.54E-06	< 4.21E-09	< 1.78E-09	< 1.1	< 1.83E-06	< 5.08E-09	< 2.26E-09	< 0.4	< 6.71E-07	< 1.97E-09	< 7.51E-10	< 0.8	< 1.35E-06	< 3.75E-09	< 1.59E-09
Acetophenone	2184.3	4.06E-03	1.11E-05	4.68E-06	1277.9	2.11E-03	5.85E-06	2.60E-06	722.2	1.28E-03	3.75E-06	1.43E-06	1394.8	2.48E-03	6.90E-06	2.90E-06
n-Nitrosomorpholine	< 2.4	< 4.53E-06	< 1.24E-08	< 5.23E-09	< 3.3	< 5.41E-06	< 1.50E-08	< 6.66E-09	< 0.9	< 1.63E-06	< 4.76E-09	< 1.82E-09	< 2.2	< 3.86E-06	< 1.07E-08	< 4.57E-09
o-Toluidine	< 1.2	< 2.22E-06	< 6.08E-09	< 2.56E-09	< 1.6	< 2.65E-06	< 7.35E-09	< 3.26E-09	< 0.5	< 8.48E-07	< 2.48E-09	< 9.49E-10	< 1.1	< 1.91E-06	< 5.30E-09	< 2.26E-09
1,2-Dibromo-3-chloropropane	< 3.1	< 5.84E-06	< 1.60E-08	< 6.74E-09	< 4.2	< 6.96E-06	< 1.93E-08	< 8.56E-09	< 1.3	< 2.35E-06	< 6.88E-09	< 2.63E-09	< 2.9	< 5.05E-06	< 1.40E-08	< 5.98E-09
N,N-Diethylaniline	< 1.1	< 2.05E-06	< 5.60E-09	< 2.36E-09	< 1.5	< 2.44E-06	< 6.75E-09	< 3.00E-09	< 0.4	< 7.95E-07	< 2.33E-09	< 8.90E-10	< 1.0	< 1.76E-06	< 4.89E-09	< 2.08E-09
N,N-Dimethylaniline	< 1.0	< 1.92E-06	< 5.26E-09	< 2.22E-09	< 1.4	< 2.35E-06	< 6.51E-09	< 2.89E-09	< 0.5	< 8.48E-07	< 2.48E-09	< 9.49E-10	< 1.0	< 1.71E-06	< 4.75E-09	< 2.02E-09
o-Anisidine	< 2.1	< 3.83E-06	< 1.05E-08	< 4.42E-09	< 2.8	< 4.68E-06	< 1.30E-08	< 5.78E-09	< 1.0	< 1.78E-06	< 5.23E-09	< 2.00E-09	< 2.0	< 3.43E-06	< 9.56E-09	< 4.06E-09
1,4-Phenylenediamine	< 3.0	< 5.58E-06	< 1.53E-08	< 6.44E-09	< 3.1	< 5.05E-06	< 1.40E-08	< 6.22E-09	< 1.3	< 2.35E-06	< 6.88E-09	< 2.63E-09	< 2.5	< 4.33E-06	< 1.20E-08	< 5.10E-09
α,α,α-Trichlorotoluene	< 1.2	< 2.31E-06	< 6.32E-09	< 2.67E-09	< 1.7	< 2.83E-06	< 7.84E-09	< 3.48E-09	< 0.5	< 8.83E-07	< 2.59E-09	< 9.88E-10	< 1.2	< 2.01E-06	< 5.58E-09	< 2.38E-09
Hydroquinone	< 2.5	< 4.65E-06	< 1.27E-08	< 5.37E-09	< 3.4	< 5.69E-06	< 1.58E-08	< 7.01E-09	< 0.8	< 1.50E-06	< 4.40E-09	< 1.68E-09	< 2.3	< 3.95E-06	< 1.10E-08	< 4.69E-09
2-Chloroacetophenone	< 0.9	< 1.71E-06	< 4.69E-09	< 1.98E-09	1.3	2.10E-06	5.82E-09	< 2.58E-09	0.2	3.36E-07	9.83E-10	3.76E-10	< 0.8	< 1.38E-06	< 3.83E-09	< 1.65E-09
Biphenyl	0.6	1.03E-06	2.82E-09	1.19E-09	1.2	1.96E-06	5.42E-09	2.41E-09	0.3	5.30E-07	1.55E-09	5.93E-10	0.7	1.17E-06	3.27E-09	1.40E-09
Trifluralin	< 3.9	< 7.33E-06	< 2.00E-08	< 8.46E-09	< 5.8	< 9.63E-06	< 2.67E-08	< 1.18E-08	< 1.3	< 2.37E-06	< 6.93E-09	< 2.65E-09	< 3.7	< 6.44E-06	< 1.79E-08	< 7.85E-09
4-Aminobiphenyl	< 1.0	< 1.92E-06	< 5.26E-09	< 2.22E-09	< 1.8	< 2.99E-06	< 8.28E-09	< 3.68E-09	< 0.4	< 6.89E-07	< 2.02E-09	< 7.71E-10	< 1.1	< 1.87E-06	< 5.19E-09	< 2.22E-09
Pentachloronitrobenzene	< 6.2	< 1.15E-05	< 3.13E-08	< 1.32E-08	< 10.8	< 1.79E-05	< 4.95E-08	< 2.20E-08	< 2.5	< 4.35E-06	< 1.27E-08	< 4.86E-09	< 6.5	< 1.12E-05	< 3.12E-08	< 1.34E-08
4-Nitrobiphenyl	< 2.1	< 3.92E-06	< 1.07E-08	< 4.52E-09	< 4.7	< 7.71E-06	< 2.13E-08	< 9.48E-09	< 0.8	< 1.50E-06	< 4.40E-09	< 1.68E-09	< 2.5	< 4.38E-06	< 1.22E-08	< 5.23E-09
Benzidine	< 1.5	< 2.76E-06	< 7.56E-09	< 3.19E-09	< 3.8	< 6.21E-06	< 1.72E-08	< 7.64E-09	< 0.8	< 1.47E-06	< 4.29E-09	< 1.64E-09	< 2.0	< 3.48E-06	< 9.69E-09	< 4.16E-09
4,4'-Methylenedianiline	< 2.6	< 4.88E-06	< 1.33E-08	< 5.61E-09	< 6.6	< 1.09E-05	< 3.03E-08	< 1.35E-08	< 1.3	< 2.37E-06	< 6.93E-09	< 2.65E-09	< 3.5	< 6.06E-06	< 1.69E-08	< 7.24E-09
Dimethylaminoazobenzene	< 2.1	< 3.87E-06	< 1.06E-08	< 4.46E-09	< 5.3	< 8.70E-06	< 2.41E-08	< 1.07E-08	< 1.0	< 1.80E-06	< 5.28E-09	< 2.02E-09	< 2.8	< 4.79E-06	< 1.33E-08	< 5.73E-09
3,3'-Dimethylbenzidine	< 1.3	< 2.36E-06	< 6.46E-09	< 2.73E-09	< 3.2	< 5.32E-06	< 1.47E-08	< 6.55E-09	< 0.7	< 1.20E-06	< 3.52E-09	< 1.34E-09	< 1.7	< 2.96E-06	< 8.24E-09	< 3.54E-09
3,3'-Dimethoxybenzidine	< 3.0	< 5.55E-06	< 1.52E-08	< 6.40E-09	< 7.6	< 1.25E-05	< 3.46E-08	< 1.54E-08	< 2.6	< 4.54E-06	< 1.33E-08	< 5.08E-09	< 4.4	< 7.53E-06	< 2.10E-08	< 8.95E-09
Methylene bis-chloroaniline	< 3.9	< 7.17E-06	< 1.96E-08	< 8.28E-09	< 9.8	< 1.61E-05	< 4.47E-08	< 1.98E-08	< 2.7	< 4.84E-06	< 1.42E-08	< 5.42E-09	< 5.5	< 9.38E-06	< 2.62E-08	< 1.12E-08
3-Furaldehyde	< 4.4	< 8.10E-06	< 2.22E-08	< 9.35E-09	< 5.8	< 9.64E-06	< 2.67E-08	< 1.19E-08	< 1.4	< 2.44E-06	< 7.14E-09	< 2.73E-09	< 3.9	< 6.73E-06	< 1.87E-08	< 7.98E-09
2-Furaldehyde	< 3.8	< 7.12E-06	< 1.95E-08	< 8.22E-09	< 5.1	< 8.47E-06	< 2.35E-08	< 1.04E-08	0.2	3.18E-07	9.31E-10	3.56E-10	< 3.0	< 5.30E-06	< 1.46E-08	< 6.33E-09
Cyclohexylamine	< 2.5	< 4.60E-06	< 1.26E-08	< 5.31E-09	< 3.3	< 5.48E-06	< 1.52E-08	< 6.75E-09	< 1.1	< 2.03E-06	< 5.95E-09	< 2.27E-09	< 2.3	< 4.04E-06	< 1.12E-08	< 4.78E-09
N-Nitrosodiethylamine	< 4.2	< 7.86E-06	< 2.15E-08	< 9.07E-09	< 5.7	< 9.36E-06	< 2.59E-08	< 1.15E-08	< 1.8	< 3.13E-06	< 9.16E-09	< 3.50E-09	< 3.9	< 6.78E-06	< 1.89E-08	< 8.03E-09
Cyclohexanone	< 2.2	< 4.15E-06	< 1.13E-08	< 4.79E-09	< 3.0	< 4.93E-06	< 1.37E-08	< 6.07E-09	0.4	7.95E-07	2.33E-09	8.90E-10	< 1.9	< 3.29E-06	< 9.11E-09	< 3.91E-09
1,3-Cyclooctadiene	3.4	6.35E-06	1.74E-08	7.33E-09	< 2.8	< 4.59E-06	< 1.27E-08	5.65E-09	1.9	3.30E-06	9.67E-09	3.70E-09	< 2.7	< 4.75E-06	< 1.33E-08	< 5.56E-09
1,5-Cyclooctadiene	< 4.7	< 8.80E-06	< 2.41E-08	< 1.02E-08	< 6.3	< 1.05E-05	< 2.90E-08	< 1.29E-08	< 1.8	< 3.16E-06	< 9.26E-09	< 3.54E-09	< 4.3	< 7.48E-06	< 2.08E-08	< 8.86E-09
Camphene	< 2.2	< 4.01E-06	< 1.10E-08	< 4.62E-09	< 2.9	< 4.77E-06	< 1.32E-08	< 5.87E-09	< 0.9	< 1.63E-06	< 4.76E-09	< 1.82E-09	< 2.0	< 3.47E-06	< 9.64E-09	< 4.10E-09
Benzaldehyde	5.7	1.05E-05	2.88E-08	1.21E-08	8.3	1.38E-05	3.81E-08	1.69E-08	3.4	5.99E-06	1.75E-08	6.70E-09	5.8	1.01E-05	2.81E-08	1.19E-08
Benzonitrile	2.5	4.65E-06	1.27E-08	5.37E-09	2.1	3.40E-06	9.42E-09	4.18E-09	< 0.4	< 7.07E-07	< 2.07E-09	< 7.91E-10	< 1.7	< 2.92E-06	< 8.07E-09	< 3.45E-09

TRC

Table I.1-10

Extruder EPDM Location B Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber
Isooctanol	< 10.9	< 2.03E-05	< 5.55E-08	< 2.34E-08	< 14.6	< 2.42E-05	< 6.70E-08	< 2.98E-08	< 3.8	< 6.80E-06	< 1.99E-08	< 7.61E-09	< 9.8	< 1.71E-05	< 4.75E-08	< 2.03E-08
1,2,4-Trimethylbenzene	9.0	1.67E-05	4.56E-08	1.93E-08	8.5	1.40E-05	3.88E-08	1.72E-08	6.9	1.23E-05	3.60E-08	1.38E-08	8.1	1.43E-05	4.01E-08	1.67E-08
3-Methylstyrene	< 1.3	< 2.45E-06	< 6.70E-09	< 2.83E-09	< 1.8	< 2.92E-06	< 8.09E-09	< 3.59E-09	< 0.5	< 9.54E-07	< 2.79E-09	< 1.07E-09	< 1.2	< 2.11E-06	< 5.86E-09	< 2.50E-09
4-Methylstyrene	< 1.3	< 2.38E-06	< 6.51E-09	< 2.75E-09	< 1.7	< 2.83E-06	< 7.84E-09	< 3.48E-09	< 0.6	< 1.10E-06	< 3.21E-09	< 1.23E-09	< 1.2	< 2.10E-06	< 5.85E-09	< 2.48E-09
4-Chlorostyrene	< 1.6	< 2.89E-06	< 7.89E-09	< 3.33E-09	< 2.1	< 3.45E-06	< 9.57E-09	< 4.25E-09	< 0.7	< 1.25E-06	< 3.67E-09	< 1.40E-09	< 1.5	< 2.53E-06	< 7.04E-09	< 2.99E-09
1-Dodecene	< 8.3	< 1.54E-05	< 4.20E-08	< 1.77E-08	< 11.4	< 1.88E-05	< 5.21E-08	< 2.31E-08	< 3.4	< 6.01E-06	< 1.76E-08	< 6.72E-09	< 7.7	< 1.34E-05	< 3.72E-08	< 1.59E-08
Phthalimide	< 2.7	< 5.04E-06	< 1.38E-08	< 5.82E-09	< 4.0	< 6.62E-06	< 1.83E-08	< 8.15E-09	< 1.1	< 1.93E-06	< 5.64E-09	< 2.15E-09	< 2.6	< 4.53E-06	< 1.26E-08	< 5.37E-09
Diphenylamine	96.1	1.78E-04	4.88E-07	2.06E-07	55.6	9.18E-05	2.54E-07	1.13E-07	47.3	8.38E-05	2.45E-07	9.38E-08	66.3	1.18E-04	3.29E-07	1.38E-07
Pyridine	< 2.5	< 4.57E-06	< 1.25E-08	< 5.27E-09	< 3.3	< 5.43E-06	< 1.50E-08	< 6.68E-09	< 1.1	< 1.91E-06	< 5.59E-09	< 2.13E-09	< 2.3	< 3.97E-06	< 1.10E-08	< 4.69E-09
Phenol	7.2	1.34E-05	3.67E-08	1.55E-08	13.9	2.29E-05	6.34E-08	2.82E-08	5.9	1.04E-05	3.06E-08	1.17E-08	9.0	1.56E-05	4.36E-08	1.84E-08
bis(2-Chloroethyl)ether	< 1.7	< 3.24E-06	< 8.85E-09	< 3.74E-09	< 2.3	< 3.84E-06	< 1.06E-08	< 4.73E-09	< 0.9	< 1.52E-06	< 4.45E-09	< 1.70E-09	< 1.6	< 2.87E-06	< 7.98E-09	< 3.39E-09
2-Chlorophenol	< 1.4	< 2.55E-06	< 6.99E-09	< 2.95E-09	< 1.8	< 3.04E-06	< 8.43E-09	< 3.75E-09	< 0.7	< 1.17E-06	< 3.41E-09	< 1.30E-09	< 1.3	< 2.25E-06	< 6.28E-09	< 2.67E-09
1,3-Dichlorobenzene	< 1.3	< 2.48E-06	< 6.79E-09	< 2.87E-09	< 1.8	< 2.95E-06	< 8.18E-09	< 3.64E-09	< 0.6	< 1.01E-06	< 2.95E-09	< 1.13E-09	< 1.2	< 2.15E-06	< 5.98E-09	< 2.54E-09
1,4-Dichlorobenzene	< 1.3	< 2.33E-06	< 6.38E-09	< 2.69E-09	< 1.7	< 2.78E-06	< 7.69E-09	< 3.42E-09	< 0.6	< 1.01E-06	< 2.95E-09	< 1.13E-09	< 1.2	< 2.04E-06	< 5.67E-09	< 2.41E-09
1,2-Dichlorobenzen	< 1.3	< 2.50E-06	< 6.84E-09	< 2.89E-09	< 1.8	< 2.99E-06	< 8.28E-09	< 3.68E-09	< 0.6	< 1.06E-06	< 3.10E-09	< 1.19E-09	< 1.3	< 2.18E-06	< 6.08E-09	< 2.58E-09
2,2'-oxybis(1-Chloropropane)	< 1.4	< 2.64E-06	< 7.22E-09	< 3.05E-09	< 1.9	< 3.15E-06	< 8.73E-09	< 3.88E-09	< 0.8	< 1.40E-06	< 4.09E-09	< 1.56E-09	< 1.4	< 2.40E-06	< 6.68E-09	< 2.83E-09
Benzyl alcohol	< 2.7	< 5.09E-06	< 1.39E-08	< 5.88E-09	< 3.7	< 6.07E-06	< 1.68E-08	< 7.47E-09	2.2	3.92E-06	1.15E-08	4.39E-09	< 2.9	< 5.03E-06	< 1.41E-08	< 5.91E-09
2-Methylphenol	< 1.9	< 3.45E-06	< 9.43E-09	< 3.98E-09	< 2.5	< 4.09E-06	< 1.13E-08	< 5.04E-09	< 0.8	< 1.38E-06	< 4.04E-09	< 1.54E-09	< 1.7	< 2.97E-06	< 8.27E-09	< 3.52E-09
3/4-Methylphenol	< 1.6	< 3.25E-06	< 8.90E-09	< 3.76E-09	< 2.3	< 3.88E-06	< 1.07E-08	< 4.77E-09	< 0.7	< 1.31E-06	< 3.83E-09	< 1.46E-09	< 1.6	< 2.81E-06	< 7.83E-09	< 3.33E-09
N-Nitroso-di-n-propylamine	< 2.5	< 4.60E-06	< 1.26E-08	< 5.31E-09	< 3.3	< 5.48E-06	< 1.52E-08	< 6.75E-09	< 1.1	< 1.96E-06	< 5.74E-09	< 2.19E-09	< 2.3	< 4.01E-06	< 1.12E-08	< 4.75E-09
Hexachloroethane	< 2.7	< 5.00E-06	< 1.37E-08	< 5.77E-09	< 3.6	< 5.94E-06	< 1.65E-08	< 7.32E-09	< 1.1	< 2.03E-06	< 5.95E-09	< 2.27E-09	< 2.5	< 4.33E-06	< 1.20E-08	< 5.12E-09
Nitrobenzene	< 1.4	< 2.54E-06	< 6.94E-09	< 2.93E-09	< 1.9	< 3.10E-06	< 8.58E-09	< 3.81E-09	< 0.6	< 1.15E-06	< 3.36E-09	< 1.28E-09	< 1.3	< 2.26E-06	< 6.29E-09	< 2.67E-09
Isophorone	< 0.8	< 1.40E-06	< 3.83E-09	< 1.62E-09	< 1.0	< 1.71E-06	< 4.73E-09	< 2.10E-09	1.0	1.84E-06	5.38E-09	2.06E-09	< 0.9	< 1.65E-06	< 4.65E-09	< 1.92E-09
2-Nitrophenol	< 2.4	< 4.39E-06	< 1.20E-08	< 5.07E-09	< 3.3	< 5.39E-06	< 1.49E-08	< 6.64E-09	< 1.1	< 2.00E-06	< 5.85E-09	< 2.23E-09	< 2.3	< 3.93E-06	< 1.09E-08	< 4.65E-09
2,4-Dimethylphenol	< 1.7	< 3.15E-06	< 8.61E-09	< 3.63E-09	< 2.3	< 3.86E-06	< 1.07E-08	< 4.75E-09	< 0.7	< 1.25E-06	< 3.67E-09	< 1.40E-09	< 1.6	< 2.76E-06	< 7.66E-09	< 3.26E-09
bis(2-Chloroethoxy)methane	< 1.4	< 2.54E-06	< 6.94E-09	< 2.93E-09	< 1.9	< 3.10E-06	< 8.58E-09	< 3.81E-09	< 0.7	< 1.24E-06	< 3.62E-09	< 1.38E-09	< 1.3	< 2.29E-06	< 6.38E-09	< 2.71E-09
Benzoic acid	46.5	8.65E-05	2.36E-07	9.98E-08	56.4	9.32E-05	2.58E-07	1.15E-07	13.6	2.40E-05	7.04E-08	2.69E-08	38.8	6.79E-05	1.88E-07	8.05E-08
2,4-Dichlorophenol	< 1.8	< 3.25E-06	< 8.90E-09	< 3.76E-09	< 2.4	< 3.99E-06	< 1.10E-08	< 4.91E-09	< 0.8	< 1.38E-06	< 3.98E-09	< 1.52E-09	< 1.6	< 2.87E-06	< 7.98E-09	< 3.39E-09
1,2,4-Trichlorobenzene	< 1.6	< 2.89E-06	< 7.89E-09	< 3.33E-09	< 2.1	< 3.52E-06	< 9.76E-09	< 4.34E-09	< 0.6	< 1.13E-06	< 3.31E-09	< 1.27E-09	< 1.4	< 2.51E-06	< 6.99E-09	< 2.98E-09
Naphthalene	12.1	2.25E-05	6.14E-08	2.59E-08	13.0	2.14E-05	5.93E-08	2.63E-08	6.7	1.19E-05	3.48E-08	1.33E-08	10.6	1.86E-05	5.18E-08	2.18E-08
4-Chloroaniline	< 1.2	< 2.17E-06	< 5.93E-09	< 2.50E-09	< 1.6	< 2.65E-06	< 7.35E-09	< 3.26E-09	< 0.5	< 9.72E-07	< 2.85E-09	< 1.09E-09	< 1.1	< 1.93E-06	< 5.37E-09	< 2.28E-09
Hexachlorobutadiene	17.1	3.18E-05	8.69E-08	3.67E-08	13.7	2.27E-05	6.29E-08	2.79E-08	7.5	1.33E-05	3.89E-08	1.48E-08	12.8	2.26E-05	6.29E-08	2.65E-08
4-Chloro-3-methylphenol	< 2.1	< 3.81E-06	< 1.04E-08	< 4.40E-09	< 2.8	< 4.66E-06	< 1.29E-08	< 5.74E-09	< 0.8	< 1.34E-06	< 3.93E-09	< 1.50E-09	< 1.9	< 3.27E-06	< 9.09E-09	< 3.88E-09
2-Methylnaphthalene	1.4	2.61E-06	7.13E-09	3.01E-09	1.4	2.33E-06	6.46E-09	2.87E-09	1.1	1.94E-06	5.69E-09	2.17E-09	1.3	2.29E-06	6.43E-09	2.68E-09
Hexachlorocyclopentadiene	< 2.9	< 5.39E-06	< 1.47E-08	< 6.22E-09	< 4.3	< 7.10E-06	< 1.97E-08	< 8.74E-09	< 1.0	< 1.77E-06	< 5.17E-09	< 1.98E-09	< 2.7	< 4.75E-06	< 1.32E-08	< 5.64E-09
2,4,6-Trichlorophenol	< 2.6	< 4.76E-06	< 1.30E-08	< 5.49E-09	< 3.6	< 6.25E-06	< 1.73E-08	< 7.69E-09	< 0.9	< 1.55E-06	< 4.55E-09	< 1.74E-09	< 2.4	< 4.19E-06	< 1.16E-08	< 4.97E-09

TRC

Table I.1-10

Extruder EPDM Location B Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
2,4,5-Trichlorophenol	< 2.7	< 5.00E-06	< 1.37E-08	< 5.77E-09	< 4.0	< 6.58E-06	< 1.82E-08	< 8.10E-09	< 0.9	< 1.52E-06	< 4.45E-09	< 1.70E-09	< 2.5	< 4.37E-06	< 1.21E-08	< 5.19E-09
2-Chloronaphthalene	0.2	4.02E-07	1.10E-09	4.64E-10	< 1.2	< 1.94E-06	< 5.37E-09	2.39E-09	< 0.3	< 6.18E-07	< 1.81E-09	< 6.92E-10	< 0.6	< 9.87E-07	< 2.76E-09	< 1.18E-09
2-Nitroaniline	< 2.8	< 5.13E-06	< 1.40E-08	< 5.92E-09	< 4.1	< 6.74E-06	< 1.87E-08	< 8.30E-09	< 1.2	< 2.05E-06	< 6.00E-09	< 2.29E-09	< 2.7	< 4.64E-06	< 1.29E-08	< 5.50E-09
Dimethylphthalate	< 0.7	< 1.33E-06	< 3.64E-09	< 1.53E-09	< 1.1	< 1.74E-06	< 4.83E-09	< 2.15E-09	0.3	5.12E-07	1.50E-09	5.73E-10	< 0.7	< 1.20E-06	< 3.32E-09	< 1.42E-09
2,6-Dinitrotoluene	< 2.9	< 5.41E-06	< 1.48E-08	< 6.24E-09	< 4.3	< 7.12E-06	< 1.97E-08	< 8.78E-09	< 1.1	< 1.93E-06	< 5.64E-09	< 2.15E-09	< 2.8	< 4.82E-06	< 1.34E-08	< 5.72E-09
2,4-Dinitrotoluene	< 2.3	< 4.18E-06	< 1.14E-08	< 4.83E-09	< 3.3	< 5.50E-06	< 1.52E-08	< 6.77E-09	< 0.8	< 1.45E-06	< 4.24E-09	< 1.62E-09	< 2.1	< 3.71E-06	< 1.03E-08	< 4.40E-09
Acenaphthylene	0.3	5.25E-07	1.44E-09	6.06E-10	0.8	1.25E-06	3.45E-09	1.53E-09	0.2	3.69E-07	1.14E-09	4.35E-10	0.4	7.20E-07	2.01E-09	8.58E-10
3-Nitroaniline	< 2.8	< 5.21E-06	< 1.43E-08	< 6.02E-09	< 4.2	< 6.87E-06	< 1.90E-08	< 8.45E-09	< 1.2	< 2.17E-06	< 6.38E-09	< 2.43E-09	< 2.7	< 4.75E-06	< 1.32E-08	< 5.63E-09
Acenaphthene	< 0.9	< 1.71E-06	< 4.69E-09	< 1.98E-09	1.4	2.24E-06	6.21E-09	< 2.76E-09	0.4	6.89E-07	2.02E-09	7.71E-10	< 0.9	< 1.55E-06	< 4.31E-09	< 1.84E-09
2,4-Dinitrophenol	< 9.1	< 1.70E-05	< 4.65E-08	< 1.96E-08	< 13.5	< 2.23E-05	< 6.19E-08	< 2.75E-08	< 2.8	< 4.96E-06	< 1.45E-08	< 5.55E-09	< 8.5	< 1.46E-05	< 4.10E-08	< 1.75E-08
4-Nitrophenol	< 6.8	< 1.27E-05	< 3.46E-08	< 1.46E-08	< 10.1	< 1.67E-05	< 4.62E-08	< 2.05E-08	< 2.3	< 4.06E-06	< 1.19E-08	< 4.55E-09	< 6.4	< 1.11E-05	< 3.09E-08	< 1.32E-08
Dibenzofuran	< 0.6	< 1.10E-06	< 3.01E-09	< 1.27E-09	< 0.9	< 1.46E-06	< 4.04E-09	< 1.80E-09	0.1	1.59E-07	4.66E-10	1.78E-10	< 0.5	< 9.07E-07	< 2.51E-09	< 1.08E-09
Diethylphthalate	2.3	4.27E-06	1.17E-08	4.93E-09	1.8	2.97E-06	8.23E-09	3.66E-09	0.6	1.02E-06	3.00E-09	1.15E-09	1.6	2.76E-06	7.64E-09	3.24E-09
4-Chlorophenyl-phenylether	< 1.7	< 3.15E-06	< 8.61E-09	< 3.63E-09	< 2.5	< 4.15E-06	< 1.15E-08	< 5.10E-09	< 0.5	< 9.72E-07	< 2.85E-09	< 1.09E-09	< 1.6	< 2.76E-06	< 7.65E-09	< 3.27E-09
Fluorene	< 0.6	< 1.05E-06	< 2.87E-09	< 1.21E-09	< 1.2	< 1.99E-06	< 5.52E-09	< 2.45E-09	0.3	5.12E-07	1.50E-09	5.73E-10	< 0.7	< 1.19E-06	< 3.30E-09	< 1.41E-09
4-Nitroaniline	< 3.1	< 5.84E-06	< 1.60E-08	< 6.74E-09	< 4.7	< 7.69E-06	< 2.13E-08	< 9.46E-09	< 1.4	< 2.40E-06	< 7.04E-09	< 2.69E-09	< 3.1	< 5.31E-06	< 1.48E-08	< 6.30E-09
4,6-Dinitro-2-methylphenol	< 5.8	< 1.08E-05	< 2.95E-08	< 1.24E-08	< 10.2	< 1.68E-05	< 4.68E-08	< 2.07E-08	< 1.7	< 3.07E-06	< 9.00E-09	< 3.44E-09	< 5.9	< 1.02E-05	< 2.84E-08	< 1.22E-08
4-Bromophenyl-phenyether	< 2.6	< 4.88E-06	< 1.33E-08	< 5.61E-09	< 4.6	< 7.58E-06	< 2.10E-08	< 9.33E-09	< 1.1	< 1.94E-06	< 5.69E-09	< 2.17E-09	< 2.8	< 4.80E-06	< 1.33E-08	< 5.71E-09
Hexachlorobenzene	< 2.0	< 3.73E-06	< 1.02E-08	< 4.30E-09	< 3.5	< 5.82E-06	< 1.61E-08	< 7.16E-09	< 0.9	< 1.54E-06	< 4.50E-09	< 1.72E-09	< 2.1	< 3.69E-06	< 1.03E-08	< 4.39E-09
Pentachlorophenol	< 4.9	< 9.10E-06	< 2.49E-08	< 1.05E-08	< 8.6	< 1.42E-05	< 3.93E-08	< 1.75E-08	< 1.6	< 2.83E-06	< 8.28E-09	< 3.16E-09	< 5.0	< 8.71E-06	< 2.42E-08	< 1.04E-08
Phenanthrene	1.0	1.91E-06	5.21E-09	2.20E-09	0.7	1.19E-06	3.30E-09	1.47E-09	0.6	1.13E-06	3.31E-09	1.27E-09	0.8	1.41E-06	3.94E-09	1.64E-09
Anthracene	< 0.6	< 1.15E-06	< 3.16E-09	< 1.33E-09	< 1.1	< 1.80E-06	< 4.98E-09	< 2.21E-09	< 0.2	< 4.06E-07	< 1.19E-09	< 4.55E-10	< 0.6	< 1.12E-06	< 3.11E-09	< 1.33E-09
Di-n-butylphthalate	21.6	4.02E-05	1.10E-07	4.64E-08	19.6	3.23E-05	8.95E-08	3.98E-08	10.4	1.84E-05	5.38E-08	2.05E-08	17.2	3.03E-05	8.44E-08	3.58E-08
Fluoranthene	0.9	1.73E-06	4.74E-09	2.00E-09	1.2	2.05E-06	5.67E-09	2.52E-09	0.5	9.36E-07	2.74E-09	1.05E-09	0.9	1.57E-06	4.38E-09	1.86E-09
Pyrene	4.2	7.79E-06	2.13E-08	8.98E-09	1.6	2.62E-06	7.25E-09	3.22E-09	2.6	4.59E-06	1.35E-08	5.14E-09	2.8	5.00E-06	1.40E-08	5.78E-09
Butylbenzylphthalate	< 1.1	< 2.01E-06	< 5.50E-09	< 2.32E-09	< 2.7	< 4.52E-06	< 1.25E-08	< 5.56E-09	< 0.5	< 8.66E-07	< 2.53E-09	< 9.69E-10	< 1.4	< 2.47E-06	< 6.85E-09	< 2.95E-09
3,3'-Dichlorobenzidine	< 2.1	< 3.88E-06	< 1.06E-08	< 4.48E-09	< 5.3	< 8.72E-06	< 2.42E-08	< 1.07E-08	< 1.7	< 3.09E-06	< 9.05E-09	< 3.46E-09	< 3.0	< 5.23E-06	< 1.46E-08	< 6.22E-09
bis(2-Ethylhexyl)phthalate	8.3	1.54E-05	4.20E-08	1.77E-08	8.9	1.47E-05	4.07E-08	1.81E-08	3.9	6.85E-06	2.01E-08	7.67E-09	7.0	1.23E-05	3.43E-08	1.45E-08
Benzo(a)anthracene	< 0.8	< 1.43E-06	< 3.92E-09	< 1.66E-09	< 2.0	< 3.24E-06	< 8.97E-09	< 3.99E-09	< 0.4	< 7.60E-07	< 2.22E-09	< 8.50E-10	< 1.1	< 1.81E-06	< 5.04E-09	< 2.16E-09
Chrysene	< 0.9	< 1.59E-06	< 4.35E-09	< 1.84E-09	< 2.2	< 3.58E-06	< 9.91E-09	< 4.40E-09	< 0.5	< 8.30E-07	< 2.43E-09	< 9.29E-10	< 1.2	< 2.00E-06	< 5.57E-09	< 2.39E-09
Di-n-octylphthalate	< 0.6	< 1.12E-06	< 3.06E-09	< 1.29E-09	< 1.4	< 2.28E-06	< 6.31E-09	< 2.80E-09	< 0.3	< 6.18E-07	< 1.81E-09	< 6.92E-10	< 0.8	< 1.34E-06	< 3.73E-09	< 1.60E-09
Benzo(b)fluoranthene	< 0.9	< 1.68E-06	< 4.59E-09	< 1.94E-09	< 2.1	< 3.42E-06	< 9.47E-09	< 4.21E-09	< 0.7	< 1.17E-06	< 3.41E-09	< 1.30E-09	< 1.2	< 2.09E-06	< 5.82E-09	< 2.48E-09
Benzo(k)fluoranthene	< 1.0	< 1.82E-06	< 4.98E-09	< 2.10E-09	< 2.2	< 3.67E-06	< 1.02E-08	< 4.51E-09	< 0.7	< 1.22E-06	< 3.57E-09	< 1.36E-09	< 1.3	< 2.23E-06	< 6.23E-09	< 2.66E-09
Benzo(a)pyrene	< 1.0	< 1.77E-06	< 4.83E-09	< 2.04E-09	< 2.2	< 3.56E-06	< 9.91E-09	< 4.40E-09	< 0.8	< 1.41E-06	< 4.14E-09	< 1.58E-09	< 1.3	< 2.25E-06	< 6.29E-09	< 2.67E-09
Indeno(1,2,3-cd)pyrene	< 1.0	< 1.89E-06	< 5.17E-09	< 2.18E-09	< 2.3	< 3.83E-06	< 1.06E-08	< 4.71E-09	< 1.0	< 1.75E-06	< 5.12E-09	< 1.96E-09	< 1.4	< 2.49E-06	< 6.96E-09	< 2.95E-09
Dibenz(a,h)anthracene	< 1.2	< 2.17E-06	< 5.93E-09	< 2.50E-09	< 2.7	< 4.40E-06	< 1.22E-08	< 5.41E-09	< 1.3	< 2.26E-06	< 6.62E-09	< 2.53E-09	< 1.7	< 2.94E-06	< 8.24E-09	< 3.48E-09
Benzo(g,h,i)perylene	< 1.0	< 1.82E-06	< 4.98E-09	< 2.10E-09	< 2.2	< 3.68E-06	< 1.02E-08	< 4.53E-09	< 1.2	< 2.07E-06	< 6.05E-09	< 2.31E-09	< 1.5	< 2.52E-06	< 7.08E-09	< 2.98E-09
Total Detected	2537.9	4.72E-03	1.29E-05	5.44E-06	1580.66	2.81E-03	7.23E-06	3.22E-06	891.9	1.52E-04	4.63E-06	1.70E-07	1664.2	2.96E-03	8.22E-06	3.46E-06
Total with non-detects	< 4.68072	< 8.70E-06	< 2.38E-08	< 1.00E-08	< 5.34277	< 8.83E-06	< 2.45E-08	< 1.09E-08	< 977.4	< 1.06E-06	< 3.10E-09	< 1.19E-09	< 1879.1	< 3.33E-03	< 9.26E-06	< 3.91E-06

TRC

Table L1-11

Extruder Tread Locations A and B Speciated Semivolatiles

Compound	CAS Number	Run 1 Conc. pg/m3	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc pg/m3	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc pg/m3	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc pg/m3	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine	00062-75-9	< 7.3	< 1.44E-05	< 4.36E-08	< 1.88E-08	< 1.1	< 1.67E-06	< 5.07E-09	< 2.06E-09	< 0.9	< 1.73E-06	< 5.17E-09	< 2.48E-09	< 2.7	< 5.92E-06	< 1.79E-08	< 7.78E-09
Cumene	00098-82-8	3.6	8.94E-06	2.11E-08	9.08E-09	5.8	1.19E-05	3.59E-08	1.45E-08	4.8	1.30E-06	1.58E-08	1.38E-08	4.7	6.68E-06	2.42E-08	1.25E-08
Aniline	00062-53-3	31.4	8.00E-05	1.82E-07	7.85E-08	43.2	9.19E-05	2.79E-07	1.13E-07	32.6	3.78E-06	9.93E-08	9.38E-08	35.8	5.19E-05	1.87E-07	9.51E-08
Benzyl Chloride	00100-44-7	< 1.6	< 3.09E-06	< 9.38E-09	< 4.05E-09	< 0.3	< 4.19E-07	< 1.27E-09	< 5.15E-10	< 0.2	< 4.44E-07	< 1.33E-09	< 6.38E-10	< 0.6	< 1.32E-06	< 3.99E-09	< 1.73E-09
Acetophenone	00098-86-2	270.3	5.15E-04	1.56E-06	6.74E-07	1048.8	2.23E-03	6.77E-06	2.74E-06	271.4	1.18E-05	7.97E-07	7.81E-07	529.5	9.18E-04	3.04E-06	1.40E-06
n-Nitrosomorpholine	00059-89-2	< 3.8	< 7.49E-06	< 2.27E-08	< 9.80E-09	< 0.8	< 1.12E-06	< 3.40E-09	< 1.38E-09	< 0.6	< 1.16E-06	< 3.49E-09	< 1.67E-09	< 1.5	< 3.25E-06	< 9.86E-09	< 4.28E-09
o-Toluidine	00095-53-4	< 2.0	< 3.97E-06	< 1.17E-08	< 5.06E-09	38.1	8.09E-05	2.46E-07	9.96E-08	31.9	3.09E-06	9.61E-08	9.18E-08	< 24.0	< 2.93E-05	< 1.18E-07	< 6.54E-08
1,2-Dibromo-3-chloropropane	00121-69-7	< 5.5	< 1.09E-05	< 3.27E-08	< 1.41E-08	< 1.1	< 1.60E-06	< 4.85E-09	< 1.97E-09	< 0.8	< 1.65E-06	< 4.94E-09	< 2.37E-09	< 2.1	< 4.68E-06	< 1.42E-08	< 6.15E-09
N,N-Diethylaniline	00091-66-7	< 1.8	< 3.68E-06	< 1.12E-08	< 4.81E-09	< 0.4	< 5.23E-07	< 1.59E-09	< 6.43E-10	< 0.3	< 5.51E-07	< 1.65E-09	< 7.89E-10	< 0.7	< 1.58E-06	< 4.80E-09	< 2.06E-09
N,N-Dimethylaniline	00096-12-8	< 2.0	< 3.68E-06	< 1.18E-08	< 5.08E-09	< 0.3	< 4.93E-07	< 1.50E-09	< 6.06E-10	< 0.3	< 5.21E-07	< 1.55E-09	< 7.45E-10	< 0.7	< 1.63E-06	< 4.95E-09	< 2.15E-09
o-Anisidine	00090-04-0	< 4.2	< 8.19E-06	< 2.48E-08	< 1.07E-08	< 0.7	< 1.02E-06	< 3.09E-09	< 1.25E-09	< 0.5	< 1.07E-06	< 3.20E-09	< 1.53E-09	< 1.6	< 3.42E-06	< 1.04E-08	< 4.50E-09
1,4-Phenylenediamine	00106-50-3	< 5.5	< 1.09E-05	< 3.26E-08	< 1.42E-08	< 1.3	< 1.89E-06	< 8.00E-09	< 2.43E-09	< 1.1	< 2.13E-06	< 6.36E-09	< 3.06E-09	< 2.2	< 4.97E-06	< 1.51E-08	< 6.55E-09
a,a,a-Trichlorotoluene	00098-07-7	< 2.1	< 4.05E-06	< 1.23E-08	< 5.30E-09	< 0.4	< 5.98E-07	< 1.82E-09	< 7.35E-10	< 0.3	< 6.43E-07	< 1.92E-09	< 9.21E-10	< 0.8	< 1.76E-06	< 5.34E-09	< 2.32E-09
Hydroquinone	00123-31-9	< 3.5	< 6.91E-06	< 2.10E-08	< 9.05E-09	< 0.8	< 1.21E-06	< 3.68E-09	< 1.48E-09	< 0.7	< 1.30E-06	< 3.89E-09	< 1.86E-09	< 1.4	< 3.14E-06	< 9.51E-09	< 4.13E-09
2-Chloroacetophenone	01341-24-8	< 1.5	< 2.92E-06	< 8.88E-09	< 3.83E-09	0.2	2.36E-07	7.16E-10	2.90E-10	0.1	2.61E-07	1.04E-09	2.62E-10	< 0.6	< 1.14E-06	< 3.54E-09	< 1.46E-09
Biphenyl	00092-52-4	2.4	4.64E-06	1.41E-08	6.08E-09	3.2	6.57E-06	2.00E-08	8.08E-09	2.7	2.47E-07	8.56E-09	7.87E-09	2.8	3.82E-06	1.42E-08	7.34E-09
Trifluralin	01582-09-8	< 5.5	< 1.09E-05	< 3.32E-08	< 1.43E-08	< 1.1	< 1.67E-06	< 5.08E-09	< 2.06E-09	< 0.9	< 1.76E-06	< 5.26E-09	< 2.52E-09	< 2.2	< 4.79E-06	< 1.45E-08	< 6.30E-09
4-Aminobiphenyl	00092-67-1	< 1.8	< 3.15E-06	< 9.56E-09	< 4.13E-09	< 0.3	< 4.92E-07	< 1.50E-09	< 6.06E-10	< 0.3	< 5.36E-07	< 1.60E-09	< 7.67E-10	< 0.6	< 1.39E-06	< 4.22E-09	< 1.83E-09
Pentachloronitrobenzene	00082-68-8	< 10.2	< 2.01E-06	< 6.11E-08	< 2.63E-08	< 2.2	< 3.27E-06	< 9.93E-09	< 4.02E-09	< 1.8	< 3.51E-06	< 1.05E-08	< 5.02E-09	< 4.0	< 8.97E-06	< 2.72E-08	< 1.18E-08
4-Nitrobiphenyl	00092-93-3	< 3.5	< 6.95E-06	< 2.11E-08	< 9.10E-09	< 0.7	< 1.07E-06	< 3.26E-09	< 1.32E-09	< 0.6	< 1.15E-06	< 3.43E-09	< 1.64E-09	< 1.4	< 3.06E-06	< 9.26E-09	< 4.02E-09
Benzidine	00092-87-5	< 3.7	< 7.28E-06	< 2.21E-08	< 9.53E-09	< 0.8	< 1.21E-06	< 3.68E-09	< 1.48E-09	< 0.7	< 1.29E-06	< 3.84E-09	< 1.84E-09	< 1.5	< 3.28E-06	< 9.87E-09	< 4.29E-09
4,4'-Methylenedianiline	00101-77-9	< 8.0	< 1.19E-05	< 3.58E-08	< 1.54E-08	< 1.4	< 2.10E-06	< 6.37E-09	< 2.58E-09	< 1.1	< 2.22E-06	< 6.63E-09	< 3.19E-09	< 2.4	< 5.37E-06	< 1.63E-08	< 7.07E-09
Dimethylaminoazobenzene	00060-11-7	< 4.8	< 8.99E-06	< 2.73E-08	< 1.18E-08	< 1.0	< 1.42E-06	< 4.30E-09	< 1.74E-09	< 0.8	< 1.49E-06	< 4.44E-09	< 2.13E-09	< 1.8	< 3.96E-06	< 1.20E-08	< 5.21E-09
3,3'-Dimethylbenzidine	00119-93-7	< 3.1	< 6.01E-06	< 1.82E-08	< 7.87E-09	< 0.7	< 1.06E-06	< 3.21E-09	< 1.30E-09	< 0.6	< 1.10E-06	< 3.29E-09	< 1.58E-09	< 1.2	< 2.72E-06	< 8.25E-09	< 3.58E-09
3,3'-Dimethoxybenzidine	00119-90-4	< 11.6	< 2.27E-05	< 6.88E-08	< 2.97E-08	< 2.3	< 3.42E-06	< 1.04E-08	< 4.21E-09	< 1.8	< 3.57E-06	< 1.07E-08	< 5.11E-09	< 4.5	< 9.89E-06	< 3.00E-08	< 1.30E-08
Methylene bis-chloroaniline	00101-14-4	< 12.3	< 2.42E-05	< 7.33E-08	< 3.16E-08	< 2.5	< 3.78E-06	< 1.15E-08	< 4.65E-09	< 2.0	< 3.94E-06	< 1.18E-08	< 5.63E-09	< 4.8	< 1.06E-05	< 3.22E-08	< 1.40E-08
3-Furaldehyde	00498-60-2	< 5.7	< 1.12E-05	< 3.40E-08	< 1.47E-08	< 1.0	< 1.45E-06	< 4.39E-09	< 1.78E-09	< 0.8	< 1.52E-06	< 4.53E-09	< 2.17E-09	< 2.2	< 4.72E-06	< 1.43E-08	< 6.20E-09
2-Furaldehyde	00098-01-1	< 5.0	< 9.76E-06	< 2.96E-08	< 1.28E-08	0.7	1.54E-06	4.68E-09	1.90E-09	0.4	8.44E-07	0.00E+00	1.21E-09	< 2.0	< 4.05E-06	< 1.14E-08	< 5.29E-09
Cyclohexylamine	00108-91-8	1505.9	2.86E-03	8.68E-06	3.75E-06	5263.8	1.12E-02	3.40E-05	1.38E-05	1274.3	9.33E-06	3.68E-06	3.67E-06	2681.3	4.69E-03	1.55E-05	7.07E-06
N-Nitrosodiethylamine	00055-18-5	< 7.3	< 1.44E-05	< 4.36E-08	< 1.88E-08	< 1.2	< 1.78E-06	< 5.35E-09	< 2.17E-09	1.1	2.13E-06	0.00E+00	3.05E-09	< 2.8	< 6.08E-06	< 1.63E-08	< 8.01E-09
Cyclohexanone	00108-94-1	23.0	4.43E-06	1.34E-07	5.80E-08	24.3	5.16E-05	1.57E-07	6.35E-08	19.9	5.74E-06	6.58E-08	5.70E-08	22.4	3.39E-05	1.19E-07	5.95E-08
1,3-Cyclooctadiene	01700-10-3	< 3.4	< 6.60E-06	< 2.00E-08	< 8.64E-09	< 0.6	< 8.68E-07	< 2.63E-09	< 1.07E-09	< 0.5	< 9.04E-07	< 2.70E-09	< 1.29E-09	< 1.3	< 2.79E-06	< 8.45E-09	< 3.67E-09
1,5-Cyclooctadiene	00111-78-4	< 7.4	< 1.45E-05	< 4.39E-08	< 1.90E-08	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	< 2.5	< 4.83E-06	< 1.46E-08	< 6.32E-09
Camphene	00079-92-5	< 3.8	< 7.44E-06	< 2.26E-08	< 9.74E-09	< 0.7	< 1.02E-06	< 3.08E-09	< 1.25E-09	< 0.5	< 1.07E-06	< 3.20E-09	< 1.53E-09	< 1.4	< 3.18E-06	< 9.62E-09	< 4.18E-09
Benzaldehyde	00100-52-7	5.6	1.11E-05	3.36E-08	1.45E-08	3.8	7.58E-06	2.12E-08	8.81E-09	4.0	7.75E-06	0.00E+00	1.11E-08	4.4	8.80E-06	1.83E-08	1.14E-08
Benzonitrile	00100-47-0	0.7	1.39E-06	4.22E-09	1.82E-09	< 0.3	< 4.18E-07	< 1.27E-09	< 5.15E-10	< 0.2	< 4.29E-07	< 1.28E-09	< 6.14E-10	< 0.3	< 7.46E-07	< 2.26E-09	< 9.83E-10

TRC

Table L1-11

Extruder Tread Locations A and B Speciated Semivolatiles

Compound	CAS Number	Run 1 Conc. pg/m3	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc pg/m3	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc pg/m3	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc pg/m3	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Isooctanol	26952-21-6	< 15.9	< 3.12E-05	< 9.46E-08	< 4.08E-08	< 2.3	< 3.45E-06	< 1.05E-08	< 4.25E-09	< 1.9	< 3.57E-06	< 1.07E-08	< 5.11E-09	< 5.9	< 1.27E-05	< 3.86E-08	< 1.67E-08
1,2,4-Trimethylbenzene	00095-63-6	49.0	9.38E-05	2.85E-07	1.23E-07	92.4	1.96E-04	5.96E-07	2.42E-07	96.4	1.38E-05	2.98E-07	2.77E-07	79.3	1.01E-04	3.93E-07	2.14E-07
3-Methylstyrene	00100-80-1	< 2.2	< 4.41E-06	< 1.34E-08	< 5.77E-09	< 0.4	< 5.98E-07	< 1.82E-09	< 7.35E-10	0.4	7.06E-07	0.00E+00	1.01E-09	< 0.9	< 1.90E-06	< 5.06E-09	< 2.51E-09
4-Methylstyrene	00622-97-9	< 2.5	< 4.99E-06	< 1.52E-08	< 6.54E-09	< 0.4	< 6.42E-07	< 1.95E-09	< 7.90E-10	< 0.3	< 6.58E-07	< 1.97E-09	< 9.42E-10	< 1.0	< 2.10E-06	< 6.36E-09	< 2.76E-09
4-Chlorostyrene	01073-67-2	< 2.8	< 5.75E-06	< 1.74E-08	< 7.53E-09	< 0.5	< 7.47E-07	< 2.27E-09	< 9.19E-10	< 0.4	< 7.66E-07	< 2.29E-09	< 1.10E-09	< 1.1	< 2.42E-06	< 7.33E-09	< 3.18E-09
1-Dodecene	00112-41-4	< 110.3	< 2.10E-04	< 6.38E-07	< 2.75E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	< 36.8	< 7.01E-05	< 2.13E-07	< 9.18E-08
Phthalimide	00085-41-6	< 4.5	< 8.93E-06	< 2.71E-08	< 1.17E-08	< 0.9	< 1.37E-06	< 4.17E-09	< 1.69E-09	< 0.7	< 1.47E-06	< 4.39E-09	< 2.10E-09	< 1.8	< 3.92E-06	< 1.19E-08	< 5.16E-09
Diphenylamine	00122-39-4	52.4	9.98E-05	3.03E-07	1.31E-07	103.1	2.19E-04	6.66E-07	2.70E-07	82.1	3.69E-06	2.41E-07	2.36E-07	79.2	1.08E-04	4.03E-07	2.12E-07
Pyridine	00110-86-1	< 4.5	< 8.77E-06	< 2.66E-08	< 1.15E-08	< 0.8	< 1.12E-06	< 3.40E-09	< 1.38E-09	< 0.6	< 1.16E-06	< 3.48E-09	< 1.67E-09	< 1.7	< 3.69E-06	< 1.12E-08	< 4.84E-09
Phenol	00108-95-2	44.8	8.78E-05	2.67E-07	1.15E-07	25.2	5.28E-05	1.59E-07	6.46E-08	21.2	4.10E-05	0.00E+00	5.87E-08	30.3	6.06E-05	1.42E-07	7.94E-08
bis(2-Chloroethyl)ether	00111-44-4	< 3.5	< 6.96E-06	< 2.11E-08	< 9.11E-09	< 0.6	< 8.91E-07	< 2.68E-09	< 1.08E-09	< 0.5	< 9.03E-07	< 2.70E-09	< 1.29E-09	< 1.3	< 2.81E-06	< 8.83E-09	< 3.83E-09
2-Chlorophenol	00095-57-8	< 2.7	< 5.31E-06	< 1.61E-08	< 6.95E-09	< 0.5	< 7.02E-07	< 2.13E-09	< 8.64E-10	< 0.4	< 7.35E-07	< 2.19E-09	< 1.05E-09	< 1.0	< 2.25E-06	< 6.81E-09	< 2.96E-09
1,3-Dichlorobenzene	00541-73-1	< 2.4	< 4.64E-06	< 1.41E-08	< 6.08E-09	< 0.4	< 6.57E-07	< 2.00E-09	< 8.09E-10	< 0.3	< 6.89E-07	< 2.06E-09	< 9.86E-10	< 0.9	< 2.00E-06	< 6.05E-09	< 2.62E-09
1,4-Dichlorobenzene	00106-46-7	< 2.3	< 4.60E-06	< 1.40E-08	< 6.02E-09	< 0.4	< 6.42E-07	< 1.95E-09	< 7.90E-10	< 0.3	< 6.58E-07	< 1.97E-09	< 9.42E-10	< 0.9	< 1.97E-06	< 5.96E-09	< 2.58E-09
1,2-Dichlorobenzene	00095-50-1	< 2.5	< 4.85E-06	< 1.47E-08	< 6.35E-09	< 0.5	< 6.87E-07	< 2.09E-09	< 8.46E-10	< 0.4	< 7.20E-07	< 2.15E-09	< 1.03E-09	< 0.9	< 2.09E-06	< 6.32E-09	< 2.74E-09
2,2'-oxybis(1-Chloropropane)	00108-60-1	< 3.3	< 6.42E-06	< 1.95E-08	< 8.40E-09	< 0.6	< 8.21E-07	< 2.49E-09	< 1.01E-09	< 0.4	< 8.42E-07	< 2.52E-09	< 1.21E-09	< 1.2	< 2.69E-06	< 8.16E-09	< 3.54E-09
Benzyl alcohol	00100-51-6	10.7	2.09E-05	6.35E-08	2.74E-08	25.4	5.37E-05	1.63E-07	6.61E-08	29.5	3.00E-05	1.30E-07	8.33E-08	21.9	3.49E-05	1.19E-07	5.69E-08
2-Methylphenol	00095-48-7	< 3.2	< 6.29E-06	< 1.91E-08	< 8.24E-09	< 0.6	< 8.66E-07	< 2.63E-09	< 1.07E-09	< 0.5	< 9.04E-07	< 2.70E-09	< 1.29E-09	< 1.2	< 2.69E-06	< 8.14E-09	< 3.53E-09
3/4-Methylphenol	00108-39-4/00106-44-5	0.2	3.31E-07	1.00E-09	4.33E-10	3.7	7.58E-06	2.30E-08	9.33E-09	< 0.4	< 8.42E-07	< 2.52E-09	< 1.21E-09	< 1.4	< 2.82E-06	< 8.85E-09	< 3.66E-09
N-Nitroso-di-n-propylamine	00621-64-7	< 4.6	< 8.98E-06	< 2.73E-08	< 1.18E-08	< 0.9	< 1.19E-06	< 3.63E-09	< 1.47E-09	< 0.6	< 1.23E-06	< 3.66E-09	< 1.75E-09	< 1.7	< 3.80E-06	< 1.15E-08	< 4.99E-09
Hexachloroethane	00067-72-1	< 4.9	< 9.34E-06	< 2.83E-08	< 1.22E-08	< 0.9	< 1.34E-06	< 4.08E-09	< 1.65E-09	< 0.7	< 1.41E-06	< 4.21E-09	< 2.02E-09	< 1.8	< 4.03E-06	< 1.22E-08	< 5.30E-09
Nitrobenzene	00098-95-3	< 2.7	< 5.33E-06	< 1.62E-08	< 6.97E-09	< 0.5	< 6.87E-07	< 2.09E-09	< 8.45E-10	< 0.4	< 7.35E-07	< 2.19E-09	< 1.05E-09	< 1.0	< 2.25E-06	< 6.81E-09	< 2.96E-09
Isophorone	00078-59-1	< 1.5	< 2.97E-06	< 9.00E-09	< 3.88E-09	< 0.3	< 3.74E-07	< 1.13E-09	< 4.60E-10	< 0.2	< 3.98E-07	< 1.19E-09	< 5.70E-10	< 0.6	< 1.25E-06	< 3.78E-09	< 1.64E-09
2-Nitrophenol	00088-75-5	< 4.7	< 9.17E-06	< 2.78E-08	< 1.20E-08	< 0.9	< 1.17E-06	< 3.54E-09	< 1.43E-09	< 0.6	< 1.23E-06	< 3.66E-09	< 1.75E-09	< 1.8	< 3.85E-06	< 1.17E-08	< 5.06E-09
2,4-Dimethylphenol	00105-67-9	1.2	2.26E-06	6.85E-09	2.96E-09	< 0.5	< 6.06E-07	< 2.45E-09	< 9.92E-10	< 0.4	< 6.58E-07	< 2.56E-09	< 1.23E-09	< 0.5	< 1.31E-06	< 3.95E-09	< 1.73E-09
bis(2-Chloroethoxy)methane	000111-91-1	< 2.9	< 5.70E-06	< 1.73E-08	< 7.46E-09	< 0.5	< 6.87E-07	< 2.09E-09	< 8.46E-10	< 0.4	< 7.20E-07	< 2.15E-09	< 1.03E-09	< 1.1	< 2.37E-06	< 7.19E-09	< 3.11E-09
Benzoic acid	00065-85-0	9.4	1.78E-05	5.40E-08	2.33E-08	< 1.3	< 1.94E-06	< 5.89E-09	< 2.39E-09	7.0	1.34E-05	0.00E+00	1.92E-08	< 5.4	< 1.11E-05	< 2.00E-08	< 1.50E-09
2,4-Dichlorophenol	00120-83-2	< 3.2	< 6.28E-06	< 1.91E-08	< 8.23E-09	< 0.6	< 8.61E-07	< 2.68E-09	< 1.08E-09	< 0.5	< 9.34E-07	< 2.79E-09	< 1.34E-09	< 1.2	< 2.70E-06	< 8.18E-09	< 3.55E-09
1,2,4-Trichlorobenzene	000120-82-1	< 2.8	< 5.20E-06	< 1.58E-08	< 6.81E-09	< 0.5	< 7.47E-07	< 2.27E-09	< 9.19E-10	< 0.4	< 7.81E-07	< 2.33E-09	< 1.12E-09	< 1.0	< 2.24E-06	< 6.79E-09	< 2.95E-09
Naphthalene	00091-20-3	27.1	5.28E-05	1.60E-07	6.92E-08	33.2	7.03E-05	2.13E-07	9.65E-08	39.4	2.97E-05	1.58E-07	1.12E-07	33.2	5.09E-05	1.77E-07	8.92E-08
4-Chloroaniline	00106-47-8	< 2.3	< 4.51E-06	< 1.37E-08	< 5.90E-09	< 0.4	< 5.98E-07	< 1.82E-09	< 7.35E-10	< 0.3	< 6.13E-07	< 1.83E-09	< 8.77E-10	< 0.9	< 1.91E-06	< 5.78E-09	< 2.51E-09
Hexachlorobutadiene	00087-68-3	< 3.9	< 7.73E-06	< 2.34E-08	< 1.01E-08	< 0.8	< 1.25E-06	< 3.81E-09	< 1.54E-09	< 0.7	< 1.32E-06	< 3.93E-09	< 1.88E-09	< 1.5	< 3.43E-06	< 1.04E-08	< 4.52E-09
4-Chloro-3-methylphenol	00059-50-7	< 3.2	< 6.20E-06	< 1.88E-08	< 8.12E-09	< 0.8	< 9.25E-07	< 2.81E-09	< 1.14E-09	< 0.5	< 9.96E-07	< 2.97E-09	< 1.42E-09	< 1.2	< 2.71E-06	< 8.20E-09	< 3.56E-09
2-Methylnaphthalene	00091-57-6	3.3	6.39E-06	1.94E-08	8.37E-09	25.2	5.33E-05	1.62E-07	6.56E-08	29.7	2.73E-05	1.26E-07	8.39E-08	19.4	2.90E-05	1.03E-07	5.26E-08
Hexachlorocyclopentadiene	00077-47-4	< 4.1	< 8.11E-06	< 2.46E-08	< 1.06E-08	< 0.8	< 1.24E-06	< 3.76E-09	< 1.52E-09	< 0.7	< 1.32E-06	< 3.93E-09	< 1.89E-09	< 1.6	< 3.56E-06	< 1.08E-08	< 4.68E-09
2,4,6-Trichlorophenol	00088-06-2	< 3.7	< 7.17E-06	< 2.18E-08	< 9.39E-09	< 0.8	< 1.22E-06	< 3.71E-09	< 1.50E-09	< 0.7	< 1.30E-06	< 3.89E-09	< 1.86E-09	< 1.4	< 3.23E-06	< 9.79E-09	< 4.25E-09

TRC

Table L1-11

Extruder Tread Locations A and B Speciated Semivolatiles

Compound	CAS Number	Run 1 Conc. µg/m3	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc µg/m3	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc µg/m3	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc µg/m3	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
2,4,5-Trichlorophenol	00095-95-4	< 3.6	< 7.01E-06	< 2.13E-09	< 8.17E-09	< 0.8	< 1.22E-06	< 3.71E-09	< 1.50E-09	< 0.7	< 1.30E-06	< 3.89E-09	< 1.86E-09	< 1.4	< 3.18E-06	< 9.62E-09	< 4.18E-09
2-Chloronaphthalene	00091-58-7	< 1.4	< 2.64E-06	< 8.62E-09	< 3.72E-09	< 0.3	< 4.03E-07	< 1.23E-09	< 4.97E-10	0.1	2.61E-07	0.00E+00	3.73E-10	< 0.5	< 1.17E-06	< 3.28E-09	< 1.53E-09
2-Nitroaniline	00088-74-4	< 4.8	< 9.43E-06	< 2.86E-09	< 1.23E-08	< 0.9	< 1.34E-06	< 4.08E-09	< 1.65E-09	< 0.7	< 1.42E-06	< 4.25E-09	< 2.04E-09	< 1.8	< 4.07E-06	< 1.23E-08	< 5.35E-09
Dimethylphthalate	000131-11-3	1.4	2.70E-06	8.20E-09	3.54E-09	0.4	8.29E-07	1.94E-09	7.94E-10	0.2	2.16E-07	1.34E-09	6.99E-10	0.7	1.25E-06	3.83E-09	1.67E-09
2,6-Dinitrotoluene	00606-20-2	< 4.5	< 8.85E-06	< 2.68E-09	< 1.16E-08	< 0.9	< 1.37E-06	< 4.17E-09	< 1.69E-09	< 0.7	< 1.44E-06	< 4.30E-09	< 2.06E-09	< 1.7	< 3.89E-06	< 1.18E-08	< 5.11E-09
2,4-Dinitrotoluene	000121-14-2	< 3.4	< 6.65E-06	< 2.02E-09	< 8.70E-09	< 0.7	< 1.03E-06	< 3.13E-09	< 1.27E-09	< 0.6	< 1.09E-06	< 3.25E-09	< 1.56E-09	< 1.3	< 2.92E-06	< 8.85E-09	< 3.84E-09
Acenaphthylene	00208-96-8	3.2	6.03E-06	1.83E-09	7.90E-09	4.7	9.95E-06	3.02E-08	1.22E-08	3.8	1.76E-07	1.15E-08	1.10E-08	3.9	5.39E-06	2.00E-08	1.04E-08
3-Nitroaniline	00099-09-2	< 5.1	< 1.00E-05	< 3.03E-09	< 1.31E-08	< 0.9	< 1.33E-06	< 4.03E-09	< 1.63E-09	< 0.7	< 1.39E-06	< 4.16E-09	< 1.99E-09	< 1.9	< 4.24E-06	< 1.28E-08	< 5.57E-09
Acenaphthene	00083-32-9	0.0	3.61E-08	1.10E-10	4.73E-11	0.2	4.48E-07	8.45E-10	2.61E-10	< 0.2	< 4.59E-07	< 1.37E-09	< 6.58E-10	< 0.2	< 3.15E-07	< 7.09E-10	< 3.22E-10
2,4-Dinitrophenol	00105-67-9	< 11.7	< 2.29E-05	< 6.95E-08	< 3.00E-08	< 3.2	< 4.75E-06	< 1.44E-08	< 5.84E-09	< 2.6	< 5.07E-06	< 1.51E-08	< 7.26E-09	< 4.8	< 1.09E-05	< 3.30E-08	< 1.44E-08
4-Nitrophenol	00100-02-7	< 9.5	< 1.87E-05	< 5.69E-08	< 2.45E-08	< 2.9	< 4.37E-06	< 1.33E-08	< 5.38E-09	< 2.4	< 4.69E-06	< 1.40E-08	< 6.71E-09	< 4.0	< 9.27E-06	< 2.80E-08	< 1.22E-08
Dibenzofuran	00132-64-9	0.4	9.45E-07	2.56E-09	1.11E-09	0.6	1.38E-06	4.18E-09	1.69E-09	0.4	1.71E-07	1.68E-09	1.18E-09	0.5	7.98E-07	2.81E-09	1.33E-09
Diethylphthalate	00084-66-2	3.7	7.30E-06	2.21E-09	9.55E-09	95.5	2.03E-04	6.17E-07	2.50E-07	55.7	3.44E-06	1.65E-07	1.60E-07	51.7	7.13E-05	2.68E-07	1.40E-07
4-Chlorophenyl-phenylether	70005-72-3	< 2.3	< 4.46E-06	< 1.35E-08	< 5.83E-09	< 0.5	< 7.61E-07	< 2.31E-09	< 9.36E-10	< 0.4	< 8.12E-07	< 2.42E-09	< 1.16E-09	< 0.8	< 2.01E-06	< 6.09E-09	< 2.64E-09
Fluorene	00086-73-7	< 1.2	< 2.34E-06	< 7.10E-09	< 3.07E-09	0.2	3.73E-07	5.07E-10	2.05E-10	0.2	< 3.83E-07	< 1.14E-09	< 5.48E-10	< 0.5	< 1.03E-06	< 2.92E-09	< 1.27E-09
4-Nitroaniline	00100-01-6	< 5.6	< 1.11E-05	< 3.38E-08	< 1.45E-08	< 1.0	< 1.51E-06	< 4.58E-09	< 1.85E-09	< 0.8	< 1.59E-06	< 4.76E-09	< 2.28E-09	< 2.2	< 4.73E-06	< 1.43E-08	< 6.21E-09
4,6-Dinitro-2-methylphenol	00534-52-1	< 7.2	< 1.42E-05	< 4.31E-08	< 1.86E-08	< 1.8	< 2.73E-06	< 8.28E-09	< 3.35E-09	< 1.5	< 2.86E-06	< 8.83E-09	< 4.23E-09	< 2.9	< 6.63E-06	< 2.01E-08	< 8.72E-09
4-Bromophenyl-phenylether	00101-55-3	< 4.6	< 8.95E-06	< 2.72E-09	< 1.17E-08	< 0.9	< 1.31E-06	< 3.89E-09	< 1.62E-09	< 0.7	< 1.41E-06	< 4.21E-09	< 2.02E-09	< 1.8	< 3.89E-06	< 1.18E-08	< 5.12E-09
Hexachlorobenzene	00118-74-1	< 3.8	< 7.08E-06	< 2.15E-09	< 9.27E-09	< 0.7	< 1.06E-06	< 3.22E-09	< 1.31E-09	< 0.6	< 1.12E-06	< 3.34E-09	< 1.60E-09	< 1.4	< 3.09E-06	< 9.35E-09	< 4.06E-09
Pentachlorophenol	00087-86-5	< 6.8	< 1.30E-05	< 3.96E-08	< 1.71E-08	< 1.8	< 2.71E-06	< 8.24E-09	< 3.34E-09	< 1.5	< 2.93E-06	< 8.74E-09	< 4.19E-09	< 2.7	< 6.23E-06	< 1.89E-08	< 8.20E-09
Phenanthrene	00085-01-8	1.8	3.58E-06	1.09E-08	4.69E-09	3.3	6.86E-06	2.11E-08	8.57E-09	3.4	1.23E-06	1.15E-08	9.65E-09	2.8	3.92E-06	1.45E-08	7.63E-09
Anthracene	00120-12-7	< 0.9	< 1.86E-06	< 5.64E-09	< 2.43E-09	< 0.2	< 2.99E-07	< 9.07E-10	< 3.67E-10	< 0.2	< 3.06E-07	< 8.15E-10	< 4.38E-10	< 0.4	< 8.21E-07	< 2.49E-09	< 1.08E-09
Di-n-butylphthalate	00084-74-2	51.9	1.03E-04	3.11E-07	1.34E-07	37.0	7.78E-05	2.38E-07	9.58E-08	7.9	1.11E-05	3.94E-08	2.21E-08	32.3	6.38E-05	1.96E-07	8.41E-08
Fluoranthene	00206-44-0	< 1.0	< 1.90E-06	< 5.77E-09	< 2.49E-09	0.4	6.10E-07	2.46E-09	9.97E-10	< 0.2	< 3.68E-07	< 1.10E-09	< 5.26E-10	< 0.5	< 1.03E-06	< 3.11E-09	< 1.34E-09
Pyrene	00129-00-0	1.3	2.42E-06	7.35E-09	3.17E-09	2.6	5.47E-06	1.66E-08	6.73E-09	< 0.2	< 4.14E-07	< 1.24E-09	< 5.92E-10	< 1.4	< 2.77E-06	< 8.40E-09	< 3.50E-09
Butylbenzylphthalate	00085-68-7	2.6	5.19E-06	1.58E-08	6.80E-09	1.7	3.66E-06	1.11E-08	4.51E-09	2.0	2.03E-06	6.80E-09	5.65E-09	2.1	3.83E-06	1.19E-08	5.65E-09
3,3'-Dichlorobenzidine	00091-94-1	< 7.9	< 1.55E-05	< 4.70E-08	< 2.03E-08	< 1.5	< 2.24E-06	< 6.81E-09	< 2.76E-09	< 1.2	< 2.31E-06	< 6.91E-09	< 3.31E-09	< 3.0	< 6.88E-06	< 2.02E-08	< 8.78E-09
bis(2-Ethylhexyl)phthalate	00117-81-7	18.7	3.66E-05	1.11E-07	4.79E-08	16.4	3.47E-05	1.05E-07	4.27E-08	20.9	1.66E-05	8.51E-08	5.93E-08	18.7	2.93E-05	1.00E-07	5.00E-08
Benzo(a)anthracene	00056-55-3	< 1.9	< 3.83E-06	< 1.16E-08	< 5.01E-09	< 0.4	< 6.56E-07	< 1.99E-09	< 8.07E-10	< 0.3	< 6.74E-07	< 2.01E-09	< 9.85E-10	< 0.8	< 1.72E-06	< 5.21E-09	< 2.26E-09
Chrysene	00218-01-9	< 2.1	< 4.16E-06	< 1.26E-08	< 5.45E-09	< 0.5	< 7.16E-07	< 2.17E-09	< 8.81E-10	< 0.4	< 7.35E-07	< 2.20E-09	< 1.05E-09	< 0.8	< 1.87E-06	< 5.66E-09	< 2.46E-09
Di-n-octylphthalate	00117-84-0	0.1	2.13E-07	6.46E-10	2.79E-10	0.4	< 5.22E-07	< 1.58E-09	< 6.42E-10	< 0.3	< 5.36E-07	< 1.60E-09	< 7.67E-10	< 0.1	< 4.24E-07	< 1.28E-09	< 5.83E-10
Benzo(b)fluoranthene	00205-99-2	< 2.8	< 5.51E-06	< 1.67E-08	< 7.21E-09	< 0.6	< 9.21E-07	< 2.49E-09	< 1.01E-09	< 0.4	< 8.42E-07	< 2.52E-09	< 1.21E-09	< 1.1	< 2.39E-06	< 7.24E-09	< 3.14E-09
Benzo(k)fluoranthene	00207-08-9	< 2.9	< 5.73E-06	< 1.74E-08	< 7.51E-09	< 0.6	< 8.51E-07	< 2.59E-09	< 1.05E-09	< 0.4	< 8.58E-07	< 2.56E-09	< 1.23E-09	< 1.1	< 2.48E-06	< 7.52E-09	< 3.26E-09
Benzo(a)pyrene	00050-32-8	< 3.4	< 6.60E-06	< 2.00E-08	< 8.65E-09	< 0.6	< 9.26E-07	< 2.81E-09	< 1.14E-09	< 0.5	< 9.34E-07	< 2.79E-09	< 1.34E-09	< 1.3	< 2.82E-06	< 8.55E-09	< 3.71E-09
Indeno(1,2,3-cd)pyrene	00193-39-5	< 4.2	< 8.26E-06	< 2.51E-08	< 1.08E-08	< 0.7	< 1.00E-06	< 3.04E-09	< 1.23E-09	< 0.5	< 1.01E-06	< 3.02E-09	< 1.45E-09	< 1.6	< 3.42E-06	< 1.04E-08	< 4.50E-09
Dibenz(a,h)anthracene	00053-90-3	< 5.4	< 1.06E-05	< 3.22E-08	< 1.39E-08	< 0.9	< 1.29E-06	< 3.91E-09	< 1.58E-09	< 0.7	< 1.29E-06	< 3.84E-09	< 1.84E-09	< 2.0	< 4.40E-06	< 1.33E-08	< 5.78E-09
Benzo(g,h,i)perylene	00191-24-2	< 4.9	< 9.69E-06	< 2.94E-08	< 1.27E-08	< 0.8	< 1.15E-06	< 3.50E-09	< 1.42E-09	< 0.6	< 1.16E-06	< 3.47E-09	< 1.67E-09	< 1.8	< 4.00E-06	< 1.21E-08	< 5.26E-09
Total Detected		2125.9	4.94E-03	1.50E-06	6.47E-06	6.90E+03	1.47E-02	4.46E-05	1.81E-05	2043.4	2.41E-04	6.04E-06	5.88E-06	3658.7	6.28E-03	2.08E-05	9.68E-06
Total with non-detects		< 2580.8	< 4.94E-03	< 1.50E-05	< 6.47E-06	< 6.97E+03	< 1.46E-02	< 4.49E-05	< 1.82E-05	< 2095.6	< 3.44E-04	< 6.35E-06	< 8.02E-06	< 3859.1	< 6.69E-03	< 2.21E-05	< 1.02E-05

TRC

Table 1.1-12

Extruder Tread Location A Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine	< 4.1	< 8.25E-06	< 2.50E-08	< 1.08E-08	< 0.3	< 7.13E-07	< 2.17E-09	< 8.78E-10	< 0.5	1.01E-06	< 3.02E-09	< 1.45E-09	< 1.7	< 3.33E-06	< 1.01E-08	< 4.38E-09
Cumene	0.6	1.23E-06	3.73E-09	1.61E-09	0.8	1.73E-06	5.25E-09	2.13E-09	0.7	1.27E-06	3.80E-09	1.82E-09	0.7	1.41E-06	4.26E-09	1.85E-09
Cumene	0.6	1.23E-06	3.73E-09	1.61E-09	0.8	1.73E-06	5.25E-09	2.13E-09	0.7	1.27E-06	3.80E-09	1.82E-09	0.7	1.41E-06	4.26E-09	1.85E-09
Aniline	2.5	5.11E-06	1.55E-08	6.69E-09	2.1	4.48E-06	1.36E-08	5.51E-09	1.8	3.59E-06	1.07E-08	5.14E-09	2.2	4.39E-06	1.33E-08	5.79E-09
Benzyl Chloride	< 0.9	< 1.77E-06	< 5.38E-09	< 2.32E-09	< 0.1	< 1.97E-07	< 5.99E-10	< 2.43E-10	< 0.1	2.46E-07	< 7.33E-10	< 3.51E-10	< 0.4	< 7.39E-07	< 2.24E-09	< 9.72E-10
Acetophenone	11.2	2.26E-05	6.85E-08	2.96E-08	12.9	2.69E-05	8.17E-08	3.31E-08	5.3	1.02E-05	3.04E-08	1.46E-08	9.8	1.99E-05	6.02E-08	2.58E-08
n-Nitrosomorpholine	< 2.1	< 4.30E-06	< 1.31E-08	< 5.63E-09	< 0.2	< 4.55E-07	< 1.38E-09	< 5.60E-10	< 0.4	7.06E-07	< 2.11E-09	< 1.01E-09	< 0.9	< 1.82E-06	< 5.52E-09	< 2.40E-09
o-Toluidine	< 1.1	< 2.22E-06	< 6.74E-09	< 2.91E-09	1.7	3.50E-06	1.06E-08	4.31E-09	1.5	2.90E-06	8.86E-09	4.15E-09	< 1.4	< 2.89E-06	< 8.68E-09	< 3.79E-09
1,2-Dibromo-3-chloropropane	< 3.1	< 6.19E-06	< 1.88E-08	< 8.11E-09	< 0.4	< 7.43E-07	< 2.26E-09	< 9.15E-10	< 0.5	9.06E-07	< 2.70E-09	< 1.30E-09	< 1.3	< 2.61E-06	< 7.92E-09	< 3.44E-09
N,N-Diethylaniline	< 1.0	< 2.10E-06	< 6.39E-09	< 2.75E-09	< 0.1	< 2.43E-07	< 7.37E-10	< 2.99E-10	< 0.2	3.07E-07	< 9.17E-10	< 4.39E-10	< 0.4	< 8.85E-07	< 2.68E-09	< 1.16E-09
N,N-Dimethylaniline	< 1.1	< 2.22E-06	< 6.74E-09	< 2.91E-09	< 0.1	< 2.28E-07	< 6.91E-10	< 2.80E-10	< 0.2	2.92E-07	< 8.71E-10	< 4.17E-10	< 0.5	< 9.14E-07	< 2.77E-09	< 1.20E-09
o-Anisidine	< 2.3	< 4.68E-06	< 1.42E-08	< 6.13E-09	< 0.2	< 4.96E-07	< 1.47E-09	< 5.98E-10	< 0.3	5.99E-07	< 1.79E-09	< 8.57E-10	< 1.0	< 1.92E-06	< 5.82E-09	< 2.53E-09
1,4-Phenylenediamine	< 3.1	< 6.19E-06	< 1.88E-08	< 8.11E-09	< 0.3	< 5.77E-07	< 1.75E-09	< 7.10E-10	< 0.9	1.55E-06	< 4.63E-09	< 2.22E-09	< 1.4	< 2.77E-06	< 8.39E-09	< 3.68E-09
α,α,α-Trichlorotoluene	< 1.1	< 2.32E-06	< 7.03E-09	< 3.03E-09	< 0.1	< 2.88E-07	< 8.76E-10	< 3.55E-10	< 0.2	3.53E-07	< 1.05E-09	< 5.05E-10	< 0.5	< 9.86E-07	< 2.99E-09	< 1.30E-09
Hydroquinone	< 2.0	< 3.95E-06	< 1.20E-08	< 5.17E-09	< 0.2	< 4.40E-07	< 1.34E-09	< 5.42E-10	< 0.4	8.60E-07	< 2.57E-09	< 1.23E-09	< 0.9	< 1.75E-06	< 5.29E-09	< 2.31E-09
2-Chloroacetophenone	< 0.8	< 1.68E-06	< 5.09E-09	< 2.20E-09	< 0.1	< 1.82E-07	< 5.53E-10	< 2.24E-10	< 0.1	2.61E-07	7.79E-10	< 3.73E-10	< 0.4	< 7.07E-07	< 2.14E-09	< 9.32E-10
Biphenyl	< 0.8	< 1.65E-06	< 5.02E-09	< 2.17E-09	< 0.1	< 1.82E-07	< 5.53E-10	< 2.24E-10	< 0.1	2.30E-07	6.87E-10	< 3.30E-10	< 0.3	< 6.89E-07	< 2.09E-09	< 9.07E-10
Trifluralin	< 3.1	< 6.31E-06	< 1.92E-08	< 8.26E-09	< 0.4	< 7.89E-07	< 2.40E-09	< 9.71E-10	< 0.5	9.98E-07	< 2.98E-09	< 1.43E-09	< 1.3	< 2.70E-06	< 8.19E-09	< 3.55E-09
4-Aminobiphenyl	< 0.9	< 1.80E-06	< 5.45E-09	< 2.35E-09	< 0.1	< 2.12E-07	< 6.45E-10	< 2.61E-10	< 0.2	3.22E-07	< 9.62E-10	< 4.81E-10	< 0.4	< 7.77E-07	< 2.35E-09	< 1.03E-09
Pentachloronitrobenzene	< 5.7	< 1.15E-05	< 3.49E-08	< 1.50E-08	< 0.7	< 1.50E-06	< 4.56E-09	< 1.85E-09	< 1.1	2.07E-06	< 6.19E-09	< 2.97E-09	< 2.5	< 5.02E-06	< 1.52E-08	< 6.62E-09
4-Nitrobiphenyl	< 2.0	< 3.97E-06	< 1.21E-08	< 5.20E-09	< 0.2	< 4.86E-07	< 1.47E-09	< 5.98E-10	< 0.3	6.75E-07	< 2.02E-09	< 9.67E-10	< 0.9	< 1.71E-06	< 5.18E-09	< 2.25E-09
Benzidine	< 2.0	< 4.07E-06	< 1.23E-08	< 5.32E-09	< 0.2	< 4.55E-07	< 1.38E-09	< 5.60E-10	< 0.4	8.60E-07	< 2.57E-09	< 1.23E-09	< 0.9	< 1.79E-06	< 5.43E-09	< 2.37E-09
4,4'-Methylenedianiline	< 3.3	< 6.57E-06	< 1.99E-08	< 8.60E-09	< 0.4	< 7.43E-07	< 2.26E-09	< 9.15E-10	< 0.8	1.53E-06	< 4.58E-09	< 2.20E-09	< 1.5	< 2.95E-06	< 8.93E-09	< 3.91E-09
Dimethylaminoazobenzene	< 2.5	< 5.01E-06	< 1.52E-08	< 6.56E-09	< 0.3	< 5.46E-07	< 1.66E-09	< 6.72E-10	< 0.5	9.82E-07	< 2.93E-09	< 1.41E-09	< 1.1	< 2.18E-06	< 6.60E-09	< 2.88E-09
3,3'-Dimethylbenzidine	< 1.7	< 3.36E-06	< 1.02E-08	< 4.40E-09	< 0.2	< 4.25E-07	< 1.29E-09	< 5.23E-10	< 0.4	7.21E-07	< 2.15E-09	< 1.03E-09	< 0.7	< 1.50E-06	< 4.54E-09	< 1.98E-09
3,3'-Dimethoxybenzidine	< 6.3	< 1.26E-05	< 3.84E-08	< 1.66E-08	< 0.8	< 1.58E-06	< 4.79E-09	< 1.94E-09	< 1.1	2.10E-06	< 6.28E-09	< 3.01E-09	< 2.7	< 5.44E-06	< 1.65E-08	< 7.17E-09
Methylene bis-chloroaniline	< 8.7	< 1.35E-05	< 4.09E-08	< 1.76E-08	< 0.8	< 1.71E-06	< 5.21E-09	< 2.11E-09	< 1.2	2.35E-06	< 7.01E-09	< 3.36E-09	< 2.9	< 5.85E-06	< 1.77E-08	< 7.70E-09
3-Furaldehyde	< 3.2	< 6.43E-06	< 1.95E-08	< 8.42E-09	< 0.3	< 6.07E-07	< 1.84E-09	< 7.47E-10	< 0.5	9.90E-07	< 2.68E-09	< 1.27E-09	< 1.3	< 2.64E-06	< 8.01E-09	< 3.48E-09
2-Furaldehyde	< 2.8	< 5.60E-06	< 1.70E-08	< 7.34E-09	0.4	8.19E-07	2.49E-09	1.01E-09	0.4	8.44E-07	< 2.52E-09	1.21E-09	< 1.2	< 2.42E-06	< 7.34E-09	< 3.18E-09
Cyclohexylamine	*1.7*	*3.43E-06*	*1.04E-09*	*4.49E-09*	*4.7*	*9.83E-06*	*2.99E-09*	*1.21E-09*	< *0.9*	*1.87E-06*	*5.00E-09*	< *2.39E-09*	< *2.4*	< *4.98E-06*	< *1.51E-09*	< *6.33E-09*
N-Nitrosodiethylamine	< 4.1	< 8.25E-06	< 2.50E-08	< 1.08E-08	< 0.4	< 9.04E-07	< 2.44E-09	< 9.90E-10	1.1	2.13E-06	< 6.37E-09	3.05E-09	< 1.9	< 3.73E-06	< 1.13E-08	< 4.85E-09
Cyclohexanone	5.8	1.18E-05	3.57E-08	1.54E-08	3.3	7.02E-06	2.13E-08	8.65E-09	2.9	5.63E-06	1.68E-08	8.06E-09	4.0	8.14E-06	2.46E-08	1.07E-08
1,3-Cyclooctadiene	< 1.9	< 3.78E-06	< 1.15E-08	< 4.95E-09	< 0.2	< 3.94E-07	< 1.20E-09	< 4.88E-10	< 0.3	5.07E-07	< 1.51E-09	< 7.25E-10	< 0.8	< 1.56E-06	< 4.73E-09	< 2.05E-09
1,5-Cyclooctadiene	< 4.1	< 8.32E-06	< 2.53E-08	< 1.09E-08	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	< 1.4	< 2.77E-06	< 8.42E-09	< 3.63E-09
Camphene	< 2.1	< 4.28E-06	< 1.30E-08	< 5.60E-09	< 0.2	< 4.70E-07	< 1.43E-09	< 5.79E-10	< 0.3	5.83E-07	< 1.74E-09	< 8.35E-10	< 0.9	< 1.78E-06	< 5.39E-09	< 2.34E-09
Benzaldehyde	3.7	7.38E-06	2.24E-08	9.66E-09	3.3	6.99E-06	2.12E-08	8.61E-09	4.0	7.76E-06	< 2.31E-08	1.11E-08	3.7	7.37E-06	2.23E-08	9.79E-09
Benzonitrile	< 0.8	< 1.89E-06	< 5.74E-09	< 2.48E-09	< 0.1	< 1.97E-07	< 5.99E-10	< 2.43E-10	< 0.1	2.30E-07	< 6.87E-10	< 3.30E-10	< 0.4	< 7.73E-07	< 2.34E-09	< 1.02E-09

TRC

Table L1-12

Extruder Tread Location A Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine	< 4.1	< 8.25E-06	< 2.50E-08	< 1.08E-08	< 0.3	< 7.13E-07	< 2.17E-09	< 8.78E-10	< 0.5	1.01E-06	< 3.02E-09	< 1.45E-09	< 1.7	< 3.33E-06	< 1.01E-08	< 4.38E-09
Cumene	0.6	1.23E-06	3.73E-09	1.61E-09	0.8	1.73E-06	5.25E-09	2.13E-09	0.7	1.27E-06	3.80E-09	1.82E-09	0.7	1.41E-06	4.26E-09	1.85E-09
Isooctanol	< 6.9	< 1.79E-05	< 5.43E-08	< 2.34E-08	< 0.8	< 1.61E-06	< 4.89E-09	< 1.98E-09	< 1.0	1.85E-06	< 5.82E-09	< 2.79E-09	< 3.6	< 7.15E-06	< 2.17E-08	< 9.40E-09
1,2,4-Trimethylbenzene	6.1	1.24E-05	3.76E-08	1.62E-08	7.4	1.56E-05	4.75E-08	1.92E-08	6.9	1.33E-05	3.97E-08	1.90E-08	6.9	1.38E-05	4.16E-08	1.82E-08
3-Methylstyrene	< 1.3	< 2.53E-06	< 7.68E-09	< 3.31E-09	< 0.1	< 2.88E-07	< 8.76E-10	< 3.55E-10	0.4	7.06E-07	< 2.11E-09	1.01E-09	< 0.6	< 1.17E-06	< 3.55E-09	< 1.56E-09
4-Methylstyrene	< 1.4	< 2.86E-06	< 8.68E-09	< 3.75E-09	< 0.1	< 3.03E-07	< 9.22E-10	< 3.73E-10	< 0.2	3.53E-07	< 1.05E-09	< 5.05E-10	< 0.6	< 1.17E-06	< 3.55E-09	< 1.54E-09
4-Chlorostyrene	< 1.6	< 3.31E-06	< 1.00E-08	< 4.33E-09	< 0.2	< 3.64E-07	< 1.11E-09	< 4.48E-10	< 0.2	3.99E-07	< 1.19E-09	< 5.71E-10	< 0.7	< 1.36E-06	< 4.11E-09	< 1.78E-09
1-Dodecane	< 7.8	< 1.58E-05	< 4.80E-08	< 2.07E-08	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	< 2.6	< 5.27E-06	< 1.60E-08	< 6.90E-09
Phthalimide	< 2.8	< 5.15E-06	< 1.56E-08	< 6.75E-09	< 0.3	< 5.77E-07	< 1.75E-09	< 7.10E-10	< 0.5	9.06E-07	< 2.70E-09	< 1.30E-09	< 1.1	< 2.21E-06	< 6.70E-09	< 2.92E-09
Diphenylamine	2.3	4.73E-06	1.43E-08	6.19E-09	2.1	4.31E-06	1.31E-08	5.30E-09	1.7	3.21E-06	9.56E-09	4.59E-09	2.0	4.08E-06	1.23E-08	5.38E-09
Pyridine	< 2.5	< 5.04E-06	< 1.53E-08	< 6.59E-09	< 0.2	< 4.70E-07	< 1.43E-09	< 5.79E-10	< 0.4	6.91E-07	< 2.06E-09	< 9.89E-10	< 1.0	< 2.07E-06	< 6.26E-09	< 2.72E-09
Phenol	27.5	5.54E-05	1.68E-07	7.25E-08	25.0	5.25E-05	1.59E-07	6.46E-08	21.2	4.10E-05	< 1.23E-07	5.87E-08	24.6	4.96E-05	1.50E-07	6.53E-08
bis(2-Chloroethyl)ether	< 2.0	< 4.00E-06	< 1.21E-08	< 5.23E-09	< 0.2	< 4.25E-07	< 1.29E-09	< 5.23E-10	< 0.2	4.76E-07	< 1.42E-09	< 6.81E-10	< 0.8	< 1.63E-06	< 4.95E-09	< 2.14E-09
2-Chlorophenol	< 1.5	< 3.05E-06	< 9.25E-09	< 3.99E-09	< 0.2	< 3.34E-07	< 1.01E-09	< 4.11E-10	< 0.2	3.89E-07	< 1.19E-09	< 5.71E-10	< 0.8	< 1.26E-06	< 3.82E-09	< 1.66E-09
1,3-Dichlorobenzene	< 1.3	< 2.67E-06	< 8.11E-09	< 3.50E-09	< 0.2	< 3.19E-07	< 9.68E-10	< 3.92E-10	< 0.2	3.68E-07	< 1.10E-09	< 5.27E-10	< 0.6	< 1.12E-06	< 3.39E-09	< 1.47E-09
1,4,-Dichlorobenzene	< 1.3	< 2.65E-06	< 8.04E-09	< 3.47E-09	< 0.1	< 3.03E-07	< 9.22E-10	< 3.73E-10	< 0.2	3.53E-07	< 1.05E-09	< 5.05E-10	< 0.5	< 1.10E-06	< 3.34E-09	< 1.45E-09
1,2-Dichlorobenzene	< 1.4	< 2.79E-06	< 8.47E-09	< 3.65E-09	< 0.2	< 3.34E-07	< 1.01E-09	< 4.11E-10	< 0.2	3.84E-07	< 1.15E-09	< 5.49E-10	< 0.6	< 1.17E-06	< 3.54E-09	< 1.54E-09
2,2'-oxybis(1-Chloropropane)	< 1.6	< 3.69E-06	< 1.12E-08	< 4.83E-09	< 0.2	< 3.84E-07	< 1.11E-09	< 4.48E-10	< 0.2	4.76E-07	< 1.42E-09	< 6.81E-10	< 0.7	< 1.51E-06	< 4.57E-09	< 1.89E-09
Benzyl alcohol	5.8	1.17E-05	3.57E-08	1.54E-08	10.6	2.22E-05	6.74E-08	2.73E-08	15.5	2.99E-05	9.93E-08	4.26E-08	10.6	2.13E-05	6.41E-08	2.85E-08
2-Methylphenol	< 1.6	< 3.62E-06	< 1.10E-08	< 4.74E-09	< 0.2	< 3.94E-07	< 1.20E-09	< 4.86E-10	< 0.3	5.07E-07	< 1.51E-09	< 7.25E-10	< 0.7	< 1.51E-06	< 4.56E-09	< 1.98E-09
3/4-Methylphenol	0.2	3.31E-07	1.00E-09	4.33E-10	< 0.2	< 3.64E-07	< 1.11E-09	< 4.48E-10	< 0.2	4.76E-07	< 1.42E-09	< 6.81E-10	< 0.2	< 3.90E-07	< 1.18E-09	< 5.21E-10
N-Nitroso-di-n-propylamine	< 2.6	< 5.15E-06	< 1.56E-08	< 6.75E-09	< 0.3	< 5.31E-07	< 1.61E-09	< 6.54E-10	< 0.4	6.91E-07	< 2.06E-09	< 9.89E-10	< 1.1	< 2.13E-06	< 6.44E-09	< 2.80E-09
Hexachloroethane	< 2.7	< 5.37E-06	< 1.63E-08	< 7.03E-09	< 0.3	< 6.22E-07	< 1.89E-09	< 7.66E-10	< 0.4	7.67E-07	< 2.29E-09	< 1.10E-09	< 1.1	< 2.25E-06	< 6.82E-09	< 2.96E-09
Nitrobenzene	< 1.5	< 3.05E-06	< 9.25E-09	< 3.99E-09	< 0.2	< 3.19E-07	< 9.68E-10	< 3.92E-10	< 0.2	4.14E-07	< 1.24E-09	< 5.93E-10	< 0.8	< 1.26E-06	< 3.82E-09	< 1.66E-09
Isophorone	< 0.9	< 1.70E-06	< 5.17E-09	< 2.23E-09	< 0.1	< 1.82E-07	< 5.53E-10	< 2.24E-10	< 0.1	2.15E-07	< 6.42E-10	< 3.08E-10	< 0.3	< 7.00E-07	< 2.12E-09	< 9.20E-10
2-Nitrophenol	< 2.6	< 5.25E-06	< 1.59E-08	< 6.87E-09	< 0.3	< 5.77E-07	< 1.75E-09	< 7.10E-10	< 0.3	6.60E-07	< 1.97E-09	< 9.45E-10	< 1.1	< 2.16E-06	< 6.55E-09	< 2.84E-09
2,4-Dimethylphenol	< 1.6	< 3.31E-06	< 1.00E-08	< 4.33E-09	< 0.2	< 3.64E-07	< 1.11E-09	< 4.48E-10	< 0.3	4.91E-07	< 1.47E-09	< 7.03E-10	< 0.7	< 1.39E-06	< 4.21E-09	< 1.83E-09
bis(2-Chloroethoxy)methane	< 1.6	< 3.28E-06	< 9.90E-09	< 4.27E-09	< 0.2	< 3.34E-07	< 1.01E-09	< 4.11E-10	< 0.2	3.99E-07	< 1.19E-09	< 5.71E-10	< 0.7	< 1.33E-06	< 4.04E-09	< 1.75E-09
Benzoic acid	< 5.5	< 1.11E-05	< 3.38E-08	< 1.46E-08	< 0.4	< 8.34E-07	< 2.54E-09	< 1.03E-09	7.0	1.34E-05	< 4.01E-08	1.92E-08	< 4.3	< 8.47E-06	< 2.55E-08	< 1.18E-08
2,4-Dichlorophenol	< 1.8	< 3.59E-06	< 1.09E-08	< 4.70E-09	< 0.2	< 4.25E-07	< 1.29E-09	< 5.23E-10	< 0.3	5.07E-07	< 1.51E-09	< 7.25E-10	< 0.7	< 1.51E-06	< 4.57E-09	< 1.98E-09
1,2,4-Trichlorobenzene	< 1.5	< 2.98E-06	< 9.04E-09	< 3.90E-09	< 0.2	< 3.49E-07	< 1.06E-09	< 4.29E-10	< 0.2	4.30E-07	< 1.28E-09	< 6.15E-10	< 0.6	< 1.25E-06	< 3.79E-09	< 1.65E-09
Naphthalene	12.3	2.48E-05	7.52E-08	3.24E-08	11.7	2.45E-05	7.45E-08	3.02E-08	15.3	2.95E-05	8.81E-08	4.22E-08	13.1	2.63E-05	7.93E-08	3.50E-08
4-Chloroaniline	< 1.3	< 2.58E-06	< 7.82E-09	< 3.37E-09	< 0.1	< 2.88E-07	< 8.76E-10	< 3.55E-10	< 0.2	3.38E-07	< 1.01E-09	< 4.83E-10	< 0.5	< 1.07E-06	< 3.23E-09	< 1.40E-09
Hexachlorobutadiene	< 2.2	< 4.42E-06	< 1.34E-08	< 5.79E-09	< 0.3	< 5.92E-07	< 1.80E-09	< 7.28E-10	< 0.4	7.37E-07	< 2.20E-09	< 1.05E-09	< 1.0	< 1.92E-06	< 5.80E-09	< 2.52E-09
4-Chloro-3-methylphenol	< 1.8	< 3.55E-06	< 1.08E-08	< 4.64E-09	< 0.2	< 4.10E-07	< 1.24E-09	< 5.04E-10	< 0.3	5.83E-07	< 1.74E-09	< 8.35E-10	< 0.8	< 1.51E-06	< 4.58E-09	< 1.99E-09
2-Methylnaphthalene	0.6	1.21E-06	3.66E-09	1.58E-09	11.8	2.47E-05	7.52E-08	3.05E-08	14.1	2.72E-05	8.13E-08	3.89E-08	8.9	1.77E-05	5.34E-08	2.37E-08
Hexachlorocyclopentadiene	< 2.3	< 4.68E-06	< 1.42E-08	< 6.13E-09	< 0.3	< 5.61E-07	< 1.71E-09	< 6.91E-10	< 0.4	7.67E-07	< 2.29E-09	< 1.10E-09	< 1.0	< 2.00E-06	< 6.07E-09	< 2.64E-09
2,4,6-Trichlorophenol	< 2.1	< 4.14E-06	< 1.26E-08	< 5.42E-09	< 0.2	< 5.16E-07	< 1.57E-09	< 6.35E-10	< 0.4	7.98E-07	< 2.38E-09	< 1.14E-09	< 0.9	< 1.82E-06	< 5.50E-09	< 2.40E-09

TRC

Table L1-12

Extruder Tread Location A Speciated Semivolatiles

Compound	Run 1 Conc pg/m3	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Conc pg/m3	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Conc pg/m3	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Conc pg/m3	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine	< 4.1	< 8.25E-06	< 2.50E-08	< 1.08E-08	< 0.3	< 7.13E-07	< 2.17E-09	< 8.78E-10	< 0.5	1.01E-06	< 3.02E-09	< 1.45E-09	< 1.7	< 3.33E-06	< 1.01E-08	< 4.38E-09
Cumene	0.6	1.23E-06	3.73E-09	1.61E-09	0.9	1.73E-06	5.25E-09	2.13E-09	0.7	1.27E-06	3.80E-09	1.82E-09	0.7	1.41E-06	4.26E-09	1.85E-09
2,4,5-Trichlorophenol	< 2.0	< 4.04E-06	< 1.23E-08	< 5.29E-09	< 0.2	< 5.01E-07	< 1.52E-09	< 6.16E-10	< 0.4	8.14E-07	< 2.43E-09	< 1.16E-09	< 0.9	< 1.79E-06	< 5.41E-09	< 2.36E-09
2-Chloronaphthalene	< 0.8	< 1.63E-06	< 4.95E-09	< 2.14E-09	< 0.1	< 1.97E-07	< 5.99E-10	< 2.43E-10	0.1	2.61E-07	< 7.79E-10	3.73E-10	< 0.3	< 6.96E-07	< 2.11E-09	< 9.17E-10
2-Nitroaniline	< 2.7	< 5.44E-06	< 1.65E-08	< 7.12E-09	< 0.3	< 5.81E-07	< 1.71E-09	< 8.91E-10	< 0.5	8.75E-07	< 2.61E-09	< 1.25E-09	< 1.1	< 2.29E-06	< 6.94E-09	< 3.02E-09
Dimethylphthalate	0.7	1.35E-06	4.09E-09	1.76E-09	0.3	6.37E-07	1.94E-09	7.84E-10	< 0.1	2.15E-07	6.42E-10	< 3.08E-10	< 0.4	< 7.33E-07	< 2.22E-09	< 9.52E-10
2,6-Dinitrotoluene	< 2.6	< 5.11E-06	< 1.55E-08	< 6.69E-09	< 0.3	< 8.07E-07	< 1.84E-09	< 7.47E-10	< 0.4	8.60E-07	< 2.57E-09	< 1.23E-09	< 1.1	< 2.19E-06	< 6.64E-09	< 2.89E-09
2,4-Dinitrotoluene	< 1.9	< 3.93E-06	< 1.16E-08	< 5.01E-09	< 0.2	< 4.55E-07	< 1.38E-09	< 5.60E-10	< 0.3	6.45E-07	< 1.92E-09	< 9.23E-10	< 0.8	< 1.64E-06	< 4.98E-09	< 2.17E-09
Acenaphthylene	< 0.5	< 1.04E-06	< 3.16E-09	< 1.36E-09	0.2	3.79E-07	1.15E-09	4.67E-10	< 0.1	1.53E-07	4.58E-10	< 2.20E-10	< 0.3	< 6.24E-07	< 1.89E-09	< 8.83E-10
3-Nitroaniline	< 2.9	< 5.77E-06	< 1.75E-08	< 7.55E-09	< 0.3	< 5.92E-07	< 1.80E-09	< 7.28E-10	< 0.4	8.14E-07	< 2.43E-09	< 1.16E-09	< 1.2	< 2.39E-06	< 7.24E-09	< 3.15E-09
Acenaphthene	< 0.9	< 1.84E-06	< 5.60E-09	< 2.41E-09	0.1	2.12E-07	6.45E-10	2.61E-10	< 0.1	2.61E-07	< 7.79E-10	< 3.73E-10	< 0.4	< 7.72E-07	< 2.34E-09	< 1.02E-09
2,4-Dinitrophenol	< 8.6	< 1.32E-05	< 4.01E-08	< 1.73E-08	< 0.8	< 1.74E-06	< 5.30E-09	< 2.15E-09	< 1.8	3.39E-06	< 1.01E-08	< 4.95E-09	< 3.0	< 6.12E-06	< 1.85E-08	< 8.10E-09
4-Nitrophenol	< 5.4	< 1.08E-05	< 3.28E-08	< 1.41E-08	< 0.7	< 1.47E-06	< 4.47E-09	< 1.91E-09	< 1.7	3.27E-06	< 9.76E-09	< 4.68E-09	< 2.8	< 5.18E-06	< 1.57E-08	< 6.88E-09
Dibenzofuran	0.1	2.13E-07	6.46E-10	2.79E-10	0.1	2.58E-07	7.84E-10	3.17E-10	< 0.1	1.69E-07	5.04E-10	< 2.42E-10	< 0.1	< 2.13E-07	< 6.44E-10	< 2.79E-10
Diethylphthalate	2.0	3.97E-06	1.21E-08	5.20E-09	1.5	3.25E-06	9.86E-09	4.00E-09	1.6	3.12E-06	9.30E-09	4.46E-09	1.7	3.44E-06	1.04E-08	4.55E-09
4-Chlorophenyl-phenylether	< 1.3	< 2.58E-06	< 7.82E-09	< 3.37E-09	< 0.2	< 3.34E-07	< 1.01E-09	< 4.11E-10	< 0.3	4.91E-07	< 1.47E-09	< 7.03E-10	< 0.6	< 1.13E-06	< 3.43E-09	< 1.50E-09
Fluorene	< 0.7	< 1.35E-06	< 4.09E-09	< 1.76E-09	0.1	1.67E-07	5.07E-10	2.05E-10	< 0.1	2.30E-07	< 6.87E-10	< 3.30E-10	< 0.3	< 5.82E-07	< 1.76E-09	< 7.66E-10
4-Nitroaniline	< 3.2	< 6.38E-06	< 1.94E-08	< 8.36E-09	< 0.3	< 6.52E-07	< 1.98E-09	< 8.03E-10	< 0.5	9.67E-07	< 2.89E-09	< 1.38E-09	< 1.3	< 2.67E-06	< 8.08E-09	< 3.51E-09
4,6-Dinitro-2-methylphenol	< 4.0	< 8.11E-06	< 2.46E-08	< 1.06E-08	< 0.5	< 1.03E-06	< 3.13E-09	< 1.27E-09	< 1.0	1.98E-06	< 5.91E-09	< 2.83E-09	< 1.8	< 3.71E-06	< 1.12E-08	< 4.91E-09
4-Bromophenyl-phenyether	< 2.5	< 5.11E-06	< 1.55E-08	< 6.69E-09	< 0.3	< 6.37E-07	< 1.94E-09	< 7.84E-10	< 0.4	7.98E-07	< 2.38E-09	< 1.14E-09	< 1.1	< 2.18E-06	< 6.61E-09	< 2.87E-09
Hexachlorobenzene	< 2.0	< 4.04E-06	< 1.23E-08	< 5.29E-09	< 0.3	< 5.31E-07	< 1.61E-09	< 6.54E-10	< 0.3	6.14E-07	< 1.83E-09	< 8.79E-10	< 0.9	< 1.73E-06	< 5.24E-09	< 2.28E-09
Pentachlorophenol	< 3.7	< 7.45E-06	< 2.26E-08	< 9.75E-09	< 0.5	< 1.05E-06	< 3.18E-09	< 1.29E-09	< 1.0	1.93E-06	< 5.77E-09	< 2.77E-09	< 1.7	< 3.48E-06	< 1.05E-08	< 4.60E-09
Phenanthrene	0.7	1.39E-06	4.23E-09	1.83E-09	0.6	1.30E-06	3.96E-09	1.61E-09	0.6	1.21E-06	3.62E-09	1.74E-09	0.6	1.30E-06	3.94E-09	1.72E-09
Anthracene	< 0.5	< 1.06E-06	< 3.23E-09	< 1.39E-09	< 0.1	< 1.37E-07	< 4.16E-10	< 1.68E-10	< 0.1	1.84E-07	< 5.50E-10	< 2.64E-10	< 0.2	< 4.62E-07	< 1.40E-09	< 6.08E-10
Di-n-butylphthalate	34.7	6.99E-05	2.12E-07	9.15E-08	32.7	8.87E-05	2.09E-07	8.45E-08	5.8	1.11E-05	3.32E-08	1.59E-08	24.4	4.99E-05	1.51E-07	6.40E-08
Fluoranthene	< 0.5	< 1.09E-06	< 3.30E-09	< 1.42E-09	< 0.1	< 1.37E-07	< 4.15E-10	< 1.68E-10	< 0.1	2.30E-07	< 6.87E-10	< 3.30E-10	< 0.2	< 4.85E-07	< 1.47E-09	< 6.40E-10
Pyrene	< 0.7	< 1.35E-06	< 4.09E-09	< 1.76E-09	0.3	5.92E-07	1.80E-09	7.28E-10	< 0.1	2.61E-07	< 7.79E-10	< 3.73E-10	< 0.4	< 7.33E-07	< 2.22E-09	< 9.55E-10
Butylbenzylphthalate	1.7	3.33E-06	1.01E-08	4.36E-09	0.9	1.88E-06	5.72E-09	2.32E-09	1.0	2.03E-06	6.05E-09	2.90E-09	1.2	2.41E-06	7.29E-09	3.19E-09
3,3'-Dichlorobenzidine	< 4.3	< 8.63E-06	< 2.62E-08	< 1.13E-08	< 0.5	< 1.08E-06	< 3.27E-09	< 1.33E-09	< 0.7	1.32E-06	< 3.94E-09	< 1.89E-09	< 1.9	< 3.68E-06	< 1.11E-08	< 4.84E-09
bis(2-Ethylhexyl)phthalate	8.8	1.74E-05	5.29E-08	2.28E-08	7.1	1.49E-05	4.52E-08	1.83E-08	8.6	1.66E-05	4.95E-08	2.37E-08	8.1	1.63E-05	4.92E-08	2.16E-08
Benzo(a)anthracene	< 1.1	< 2.13E-06	< 6.46E-09	< 2.79E-09	< 0.1	< 2.73E-07	< 8.30E-10	< 3.36E-10	< 0.2	4.30E-07	< 1.28E-09	< 6.15E-10	< 0.5	< 9.43E-07	< 2.86E-09	< 1.25E-09
Chrysene	< 1.1	< 2.32E-06	< 7.03E-09	< 3.03E-09	< 0.1	< 3.03E-07	< 9.22E-10	< 3.73E-10	< 0.2	4.60E-07	< 1.37E-09	< 6.59E-10	< 0.5	< 1.03E-06	< 3.11E-09	< 1.36E-09
Di-n-octylphthalate	0.1	2.13E-07	6.46E-10	2.79E-10	< 0.1	< 2.12E-07	< 6.45E-10	< 2.61E-10	< 0.2	3.22E-07	< 9.62E-10	< 4.61E-10	< 0.1	< 2.49E-07	< 7.51E-10	< 3.34E-10
Benzo(b)fluoranthene	< 1.5	< 2.98E-06	< 9.04E-09	< 3.90E-09	< 0.2	< 3.79E-07	< 1.15E-09	< 4.67E-10	< 0.2	4.76E-07	< 1.42E-09	< 6.81E-10	< 0.6	< 1.28E-06	< 3.87E-09	< 1.68E-09
Benzo(k)fluoranthene	< 1.5	< 3.10E-06	< 9.40E-09	< 4.05E-09	< 0.2	< 3.94E-07	< 1.20E-09	< 4.86E-10	< 0.2	4.76E-07	< 1.42E-09	< 6.81E-10	< 0.7	< 1.32E-06	< 4.01E-09	< 1.74E-09
Benzo(a)pyrene	< 1.8	< 3.57E-06	< 1.08E-08	< 4.67E-09	< 0.2	< 4.40E-07	< 1.34E-09	< 5.42E-10	< 0.3	5.07E-07	< 1.51E-09	< 7.25E-10	< 0.7	< 1.51E-06	< 4.58E-09	< 1.98E-09
Indeno(1,2,3-cd)pyrene	< 2.2	< 4.47E-06	< 1.36E-08	< 5.85E-09	< 0.3	< 5.31E-07	< 1.61E-09	< 6.54E-10	< 0.3	4.91E-07	< 1.47E-09	< 7.03E-10	< 0.9	< 1.83E-06	< 5.56E-09	< 2.40E-09
Dibenz(a,h)anthracene	< 2.9	< 5.74E-06	< 1.74E-08	< 7.52E-09	< 0.3	< 6.83E-07	< 2.07E-09	< 8.40E-10	< 0.3	6.29E-07	< 1.88E-09	< 9.01E-10	< 1.2	< 2.35E-06	< 7.13E-09	< 3.09E-09
Benzo(g,h,i)perylene	< 2.8	< 5.25E-06	< 1.59E-08	< 6.87E-09	< 0.3	< 6.22E-07	< 1.89E-09	< 7.66E-10	< 0.3	5.53E-07	< 1.65E-09	< 7.91E-10	< 1.1	< 2.14E-06	< 6.49E-09	< 2.81E-09
Total Detected	128.9	2.60E-04	7.89E-07	3.40E-07	141.8	2.97E-04	9.03E-07	3.66E-07	117.4	2.91E-04	4.88E-07	3.25E-07	122.3	2.47E-04	7.47E-07	3.25E-07
Total with non-detected	< 339.0	< 6.83E-04	< 2.07E-06	< 8.95E-07	< 163.0	< 3.42E-04	< 1.04E-06	< 4.21E-07	< 150.6	< 2.91E-04	< 8.89E-07	< 4.17E-07	< 217.5	< 4.39E-04	< 1.33E-06	< 5.77E-07

TRC

Table L1-13

Extruder Tread Location B Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc µg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine	< 3.2	< 6.11E-06	< 1.85E-09	< 8.00E-09	< 0.4	< 9.57E-07	< 2.91E-09	< 1.18E-09	< 0.4	< 7.18E-07	< 2.14E-09	< 1.03E-09	< 1.3	< 2.59E-06	< 7.86E-09	< 3.40E-09
Cumene	3.0	5.71E-06	1.73E-08	7.47E-09	4.7	1.01E-05	3.06E-09	1.24E-09	4.2	9.37E-06	2.60E-08	1.20E-09	4.4	8.08E-06	2.43E-08	1.06E-08
Aniline	28.9	5.49E-05	1.67E-07	7.18E-08	41.1	8.75E-05	2.66E-07	1.08E-07	30.8	6.19E-05	1.85E-07	8.86E-08	35.9	6.81E-05	2.06E-07	8.94E-08
Benzyl Chloride	< 0.7	< 1.32E-06	< 4.00E-09	< 1.73E-09	< 0.1	< 2.21E-07	< 6.71E-10	< 2.72E-10	< 0.1	< 1.99E-07	< 5.93E-10	< 2.84E-10	< 0.1	< 5.79E-07	< 1.76E-09	< 7.61E-10
Acetophenone	259.1	4.92E-04	1.49E-06	6.44E-07	1033.9	2.20E-03	6.68E-06	2.71E-06	266.1	5.38E-04	1.60E-06	7.67E-07	650.0	1.08E-03	3.26E-06	1.37E-06
n-Nitrosomorpholine	< 1.7	< 3.18E-06	< 9.65E-09	< 4.16E-09	< 0.3	< 6.63E-07	< 2.01E-09	< 8.16E-10	< 0.2	< 4.58E-07	< 1.37E-09	< 6.56E-10	< 0.3	< 1.43E-06	< 4.34E-09	< 1.88E-09
o-Toluidine	< 0.9	< 1.64E-06	< 4.99E-09	< 2.15E-09	36.4	7.74E-05	2.35E-07	9.53E-08	30.4	6.11E-05	1.82E-07	8.75E-08	33.4	< 4.67E-05	< 1.41E-07	< 6.16E-08
1,2-Dibromo-3-chloropropane	< 2.4	< 4.59E-06	< 1.39E-08	< 6.01E-09	< 0.4	< 8.54E-07	< 2.59E-09	< 1.05E-09	< 0.4	< 7.48E-07	< 2.23E-09	< 1.07E-09	< 0.4	< 2.06E-06	< 6.25E-09	< 2.71E-09
N,N-Diethylaniline	< 0.8	< 1.57E-06	< 4.77E-09	< 2.06E-09	< 0.1	< 2.60E-07	< 8.50E-10	< 3.44E-10	< 0.1	< 2.44E-07	< 7.30E-10	< 3.50E-10	< 0.1	< 6.99E-07	< 2.12E-09	< 9.17E-10
N,N-Dimethylaniline	< 0.9	< 1.66E-06	< 5.04E-09	< 2.18E-09	< 0.1	< 2.65E-07	< 8.05E-10	< 3.26E-10	< 0.1	< 2.29E-07	< 6.84E-10	< 3.29E-10	< 0.1	< 7.19E-07	< 2.18E-09	< 9.43E-10
o-Anisidine	< 1.8	< 3.50E-06	< 1.06E-08	< 4.59E-09	< 0.2	< 5.30E-07	< 1.61E-09	< 6.53E-10	< 0.2	< 4.73E-07	< 1.41E-09	< 6.78E-10	< 0.2	< 1.50E-06	< 4.55E-09	< 1.97E-09
1,4-Phenylenediamine	< 2.4	< 4.62E-06	< 1.40E-08	< 6.06E-09	< 0.7	< 1.40E-06	< 4.25E-09	< 1.72E-09	< 0.3	< 5.80E-07	< 1.73E-09	< 8.31E-10	< 0.5	< 2.20E-06	< 6.67E-09	< 2.87E-09
a,a,a-Trichlorotoluene	< 0.9	< 1.73E-06	< 5.26E-09	< 2.27E-09	< 0.1	< 3.09E-07	< 9.40E-10	< 3.81E-10	< 0.1	< 2.90E-07	< 8.66E-10	< 4.15E-10	< 0.1	< 7.79E-07	< 2.36E-09	< 1.02E-09
Hydroquinone	< 1.6	< 2.96E-06	< 8.99E-09	< 3.88E-09	< 0.4	< 7.66E-07	< 2.33E-09	< 9.43E-10	< 0.2	< 4.43E-07	< 1.32E-09	< 6.34E-10	< 0.3	< 1.39E-06	< 4.21E-09	< 1.82E-09
2-Chloroacetophenone	< 0.7	< 1.25E-06	< 3.78E-09	< 1.63E-09	0.1	2.36E-07	7.16E-10	2.90E-10	0.1	1.83E-07	5.47E-10	2.62E-10	< 0.1	< 5.55E-07	< 1.68E-09	< 7.28E-10
Biphenyl	2.4	4.84E-06	1.41E-08	6.08E-09	3.1	6.57E-06	2.00E-08	8.08E-09	2.7	5.50E-06	1.64E-08	7.87E-09	2.9	5.57E-06	1.68E-08	7.34E-09
Trifluralin	< 2.4	< 4.82E-06	< 1.40E-08	< 6.06E-09	< 0.4	< 9.84E-07	< 2.68E-09	< 1.09E-09	< 0.4	< 7.64E-07	< 2.28E-09	< 1.09E-09	< 0.4	< 2.09E-06	< 6.33E-09	< 2.75E-09
4-Aminobiphenyl	< 0.7	< 1.35E-06	< 4.11E-09	< 1.77E-09	< 0.1	< 2.60E-07	< 8.50E-10	< 3.44E-10	< 0.1	< 2.14E-07	< 6.38E-10	< 3.06E-10	< 0.1	< 6.18E-07	< 1.87E-09	< 8.08E-10
Pentachloronitrobenzene	< 4.5	< 8.64E-06	< 2.62E-08	< 1.13E-08	< 0.8	< 1.77E-06	< 5.37E-09	< 2.18E-09	< 0.7	< 1.44E-06	< 4.29E-09	< 2.05E-09	< 0.8	< 3.95E-06	< 1.20E-08	< 5.18E-09
4-Nitrobiphenyl	< 1.6	< 2.98E-06	< 9.05E-09	< 3.90E-09	< 0.3	< 5.89E-07	< 1.78E-09	< 7.25E-10	< 0.2	< 4.73E-07	< 1.41E-09	< 6.78E-10	< 0.3	< 1.35E-06	< 4.08E-09	< 1.77E-09
Benzidine	< 1.7	< 3.22E-06	< 9.78E-09	< 4.21E-09	< 0.4	< 7.51E-07	< 2.28E-09	< 9.24E-10	< 0.2	< 4.28E-07	< 1.28E-09	< 6.12E-10	< 0.3	< 1.46E-06	< 4.44E-09	< 1.92E-09
4,4'-Methylenedianiline	< 2.7	< 5.22E-06	< 1.58E-08	< 6.84E-09	< 0.8	< 1.35E-06	< 4.12E-09	< 1.67E-09	< 0.3	< 6.87E-07	< 2.05E-09	< 9.83E-10	< 0.5	< 2.42E-06	< 7.34E-09	< 3.16E-09
Dimethylaminoazobenzene	< 2.1	< 3.97E-06	< 1.21E-08	< 5.20E-09	< 0.4	< 8.89E-07	< 2.64E-09	< 1.07E-09	< 0.3	< 5.04E-07	< 1.50E-09	< 7.21E-10	< 0.3	< 1.78E-06	< 5.40E-09	< 2.33E-09
3,3'-Dimethylbenzidine	< 1.4	< 2.68E-06	< 8.06E-09	< 3.48E-09	< 0.3	< 6.33E-07	< 1.92E-09	< 7.79E-10	< 0.2	< 3.82E-07	< 1.14E-09	< 5.46E-10	< 0.2	< 1.22E-06	< 3.71E-09	< 1.60E-09
3,3'-Dimethoxybenzidine	< 5.3	< 1.00E-05	< 3.04E-08	< 1.31E-08	< 0.9	< 1.84E-06	< 5.59E-09	< 2.27E-09	< 0.7	< 1.47E-06	< 4.38E-09	< 2.10E-09	< 0.8	< 4.44E-06	< 1.35E-08	< 5.83E-09
Methylene bis-chloroaniline	< 5.8	< 1.07E-05	< 3.24E-08	< 1.40E-08	< 1.0	< 2.06E-06	< 6.26E-09	< 2.54E-09	< 0.8	< 1.59E-06	< 4.74E-09	< 2.27E-09	< 0.9	< 4.78E-06	< 1.45E-08	< 6.26E-09
3-Furaldehyde	< 2.5	< 4.77E-06	< 1.45E-08	< 6.24E-09	< 0.4	< 8.39E-07	< 2.55E-09	< 1.03E-09	< 0.3	< 6.26E-07	< 1.87E-09	< 8.96E-10	< 0.4	< 2.08E-06	< 6.30E-09	< 2.72E-09
2-Furaldehyde	< 2.2	< 4.16E-06	< 1.26E-08	< 5.44E-09	0.3	7.22E-07	2.19E-09	8.88E-10	< 0.3	< 5.50E-07	< 1.64E-09	< 7.87E-10	< 0.3	< 1.81E-06	< 5.48E-09	< 2.37E-09
Cyclohexylamine	1504.2	2.86E-03	8.67E-06	3.74E-06	5259.1	1.12E-02	3.40E-05	1.38E-05	1274.3	2.57E-03	7.66E-06	3.67E-06	3266.7	5.54E-03	1.68E-05	7.06E-06
N-Nitrosodiethylamine	< 3.2	< 6.11E-06	< 1.85E-08	< 8.00E-09	< 0.4	< 9.57E-07	< 2.91E-09	< 1.18E-09	< 0.4	< 8.25E-07	< 2.46E-09	< 1.18E-09	< 0.4	< 2.63E-06	< 7.97E-09	< 3.45E-09
Cyclohexanone	17.1	3.25E-05	9.87E-08	4.26E-08	21.0	4.46E-05	1.35E-07	5.49E-08	17.0	3.42E-05	1.02E-07	4.90E-08	19.0	3.71E-05	1.12E-07	4.88E-08
1,3-Cyclooctadiene	< 1.5	< 2.92E-06	< 8.55E-09	< 3.69E-09	< 0.2	< 4.71E-07	< 1.43E-09	< 5.60E-10	< 0.2	< 3.97E-07	< 1.18E-09	< 5.68E-10	< 0.2	< 1.23E-06	< 3.72E-09	< 1.61E-09
1,5-Cyclooctadiene	< 3.2	< 6.16E-06	< 1.87E-08	< 8.07E-09	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	< 0.0	< 2.05E-06	< 6.23E-09	< 2.69E-09
Camphene	< 1.7	< 3.16E-06	< 9.59E-09	< 4.14E-09	< 0.3	< 5.45E-07	< 1.66E-09	< 6.71E-10	< 0.2	< 4.89E-07	< 1.48E-09	< 8.99E-10	< 0.2	< 1.40E-06	< 4.24E-09	< 1.84E-09
Benzaldehyde	1.9	3.70E-06	1.12E-08	4.85E-09	< 0.3	< 5.89E-07	< 1.79E-09	< 7.25E-10	< 0.3	< 5.04E-07	< 1.50E-09	< 7.21E-10	< 0.3	< 1.60E-06	< 4.84E-09	< 2.10E-09
Benzonitrile	0.7	1.39E-06	4.22E-09	1.82E-09	< 0.1	< 2.21E-07	< 6.71E-10	< 2.72E-10	< 0.1	< 1.99E-07	< 5.93E-10	< 2.84E-10	< 0.1	< 6.03E-07	< 1.83E-09	< 7.92E-10

TRC

Table L1-13

Extruder Tread Location B Speciated Semivolatiles

Compound	Run 1				Run 2				Run 3				Average			
	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Conc pg/m3	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
n-Nitrosodimethylamine	< 3.2	< 6.11E-06	< 1.95E-08	< 8.00E-09	< 0.4	< 9.57E-07	< 2.91E-09	< 1.19E-09	< 0.4	< 7.18E-07	< 2.14E-09	< 1.03E-09	< 1.3	< 2.59E-06	< 7.86E-09	< 3.40E-09
Isooctanol	< 7.0	< 1.33E-05	< 4.02E-08	< 1.74E-08	< 0.9	< 1.94E-06	< 5.59E-09	< 2.27E-09	< 0.8	< 1.62E-06	< 4.83E-09	< 2.32E-09	< 0.8	< 5.57E-06	< 1.69E-08	< 7.31E-09
1,2,4-Trimethylbenzene	42.9	8.14E-05	2.47E-07	1.07E-07	94.9	1.91E-04	5.49E-07	2.22E-07	89.5	1.80E-04	5.38E-07	2.58E-07	87.2	1.47E-04	4.45E-07	1.96E-07
3-Methylstyrene	< 1.0	< 1.88E-06	< 5.70E-09	< 2.46E-09	< 0.1	< 3.09E-07	< 9.40E-10	< 3.81E-10	< 0.1	< 2.90E-07	< 8.66E-10	< 4.15E-10	< 0.1	< 9.26E-07	< 2.50E-09	< 1.09E-09
4-Methylstyrene	< 1.1	< 2.13E-06	< 6.47E-09	< 2.79E-09	< 0.2	< 3.39E-07	< 1.03E-09	< 4.17E-10	< 0.2	< 3.05E-07	< 9.12E-10	< 4.37E-10	< 0.2	< 9.25E-07	< 2.80E-09	< 1.22E-09
4-Chlorostyrene	< 1.3	< 2.44E-06	< 7.40E-09	< 3.19E-09	< 0.2	< 3.93E-07	< 1.16E-09	< 4.71E-10	< 0.2	< 3.67E-07	< 1.09E-09	< 5.25E-10	< 0.2	< 1.06E-06	< 3.22E-09	< 1.40E-09
1-Dodecane	< 102.4	< 1.95E-04	< 5.90E-07	< 2.55E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	< 0.0	< 6.48E-05	< 1.97E-07	< 8.49E-08
Phthalimide	< 2.0	< 3.78E-06	< 1.15E-08	< 4.94E-09	< 0.4	< 7.95E-07	< 2.42E-09	< 9.79E-10	< 0.3	< 5.65E-07	< 1.69E-09	< 8.09E-10	< 0.3	< 1.71E-06	< 5.19E-09	< 2.24E-09
Diphenylamine	60.0	9.50E-05	2.89E-07	1.24E-07	101.0	2.16E-04	6.53E-07	2.64E-07	80.5	1.62E-04	4.94E-07	2.32E-07	90.7	1.57E-04	4.75E-07	2.07E-07
Pyridine	< 2.0	< 3.74E-06	< 1.13E-08	< 4.90E-09	< 0.3	< 6.48E-07	< 1.97E-09	< 7.98E-10	< 0.2	< 4.73E-07	< 1.41E-09	< 6.78E-10	< 0.3	< 1.62E-06	< 4.91E-09	< 2.12E-09
Phenol	17.1	3.24E-05	9.85E-08	4.25E-08	< 0.2	< 3.53E-07	< 1.07E-09	< 4.35E-10	< 0.2	< 3.21E-07	< 9.58E-10	< 4.59E-10	< 0.2	< 1.10E-05	< 3.35E-08	< 1.45E-08
bis(2-Chloroethyl)ether	< 1.6	< 2.96E-06	< 9.09E-09	< 3.88E-09	< 0.2	< 4.57E-07	< 1.39E-09	< 5.62E-10	< 0.2	< 4.28E-07	< 1.28E-09	< 6.12E-10	< 0.2	< 1.26E-06	< 3.89E-09	< 1.68E-09
2-Chlorophenol	< 1.2	< 2.26E-06	< 6.85E-09	< 2.96E-09	< 0.2	< 3.68E-07	< 1.12E-09	< 4.53E-10	< 0.2	< 3.36E-07	< 1.00E-09	< 4.81E-10	< 0.2	< 9.87E-07	< 2.99E-09	< 1.30E-09
1,3-Dichlorobenzene	< 1.0	< 1.97E-06	< 5.98E-09	< 2.58E-09	< 0.2	< 3.39E-07	< 1.03E-09	< 4.17E-10	< 0.2	< 3.21E-07	< 9.58E-10	< 4.59E-10	< 0.2	< 9.76E-07	< 2.95E-09	< 1.15E-09
1,4-Dichlorobenzene	< 1.0	< 1.95E-06	< 5.92E-09	< 2.55E-09	< 0.2	< 3.39E-07	< 1.03E-09	< 4.17E-10	< 0.2	< 3.05E-07	< 9.12E-10	< 4.37E-10	< 0.2	< 9.65E-07	< 2.92E-09	< 1.14E-09
1,2-Dichlorobenzene	< 1.1	< 2.06E-06	< 6.25E-09	< 2.70E-09	< 0.2	< 3.53E-07	< 1.07E-09	< 4.35E-10	< 0.2	< 3.38E-07	< 1.00E-09	< 4.81E-10	< 0.2	< 9.16E-07	< 2.78E-09	< 1.20E-09
2,2'-oxybis(1-Chloropropane)	< 1.4	< 2.73E-06	< 8.28E-09	< 3.57E-09	< 0.2	< 4.57E-07	< 1.39E-09	< 5.62E-10	< 0.2	< 3.67E-07	< 1.09E-09	< 5.25E-10	< 0.2	< 1.19E-06	< 3.59E-09	< 1.55E-09
Benzyl alcohol	4.8	9.16E-06	2.78E-08	1.20E-08	14.8	3.15E-05	9.57E-08	3.88E-08	14.1	2.83E-05	8.45E-08	4.05E-08	14.4	2.30E-05	6.93E-08	3.04E-08
2-Methylphenol	< 1.4	< 2.67E-06	< 8.11E-09	< 3.50E-09	< 0.2	< 4.71E-07	< 1.43E-09	< 5.80E-10	< 0.2	< 3.97E-07	< 1.19E-09	< 5.68E-10	< 0.2	< 1.18E-06	< 3.58E-09	< 1.55E-09
3/4-Methylphenol	< 1.3	< 2.55E-06	< 7.73E-09	< 3.34E-09	3.6	7.58E-06	2.30E-08	9.33E-09	< 0.2	< 3.67E-07	< 1.09E-09	< 5.25E-10	1.9	3.50E-06	< 1.06E-08	< 4.40E-09
N-Nitroso-di-n-propylamine	< 2.0	< 3.83E-06	< 1.16E-08	< 5.01E-09	< 0.3	< 6.63E-07	< 2.01E-09	< 8.16E-10	< 0.3	< 5.35E-07	< 1.60E-09	< 7.65E-10	< 0.3	< 1.68E-06	< 5.08E-09	< 2.20E-09
Hexachloroethane	< 2.1	< 3.97E-06	< 1.21E-08	< 5.20E-09	< 0.3	< 7.22E-07	< 2.19E-09	< 8.88E-10	< 0.3	< 6.41E-07	< 1.92E-09	< 9.18E-10	< 0.3	< 1.78E-06	< 5.39E-09	< 2.34E-09
Nitrobenzene	< 1.2	< 2.28E-06	< 6.91E-09	< 2.98E-09	< 0.2	< 3.68E-07	< 1.12E-09	< 4.53E-10	< 0.2	< 3.21E-07	< 9.58E-10	< 4.59E-10	< 0.2	< 9.98E-07	< 2.99E-09	< 1.30E-09
Isophorone	< 0.7	< 1.26E-06	< 3.84E-09	< 1.66E-09	< 0.1	< 1.91E-07	< 5.82E-10	< 2.36E-10	< 0.1	< 1.83E-07	< 5.47E-10	< 2.62E-10	< 0.1	< 5.44E-07	< 1.66E-09	< 7.18E-10
2-Nitrophenol	< 2.1	< 3.92E-06	< 1.19E-08	< 5.13E-09	< 0.3	< 5.89E-07	< 1.79E-09	< 7.25E-10	< 0.3	< 5.65E-07	< 1.69E-09	< 8.09E-10	< 0.3	< 1.59E-06	< 5.12E-09	< 2.22E-09
2,4-Dimethylphenol	1.2	2.26E-06	6.85E-09	2.96E-09	< 0.2	< 4.42E-07	< 1.34E-09	< 5.44E-10	< 0.2	< 3.67E-07	< 1.09E-09	< 5.25E-10	< 0.2	< 1.02E-06	< 3.10E-09	< 1.34E-09
bis(2-Chloroethoxy)methane	< 1.3	< 2.44E-06	< 7.40E-09	< 3.19E-09	< 0.2	< 3.53E-07	< 1.07E-09	< 4.35E-10	< 0.2	< 3.21E-07	< 9.58E-10	< 4.59E-10	< 0.2	< 1.04E-06	< 3.14E-09	< 1.36E-09
Benzoic acid	9.4	1.76E-05	5.40E-08	2.33E-08	< 0.5	< 1.10E-06	< 3.36E-09	< 1.36E-09	< 0.4	< 8.25E-07	< 2.46E-09	< 1.18E-09	< 0.5	< 6.57E-06	< 1.99E-08	< 8.61E-09
2,4-Dichlorophenol	< 1.4	< 2.69E-06	< 8.17E-09	< 3.52E-09	< 0.2	< 4.57E-07	< 1.39E-09	< 5.62E-10	< 0.2	< 4.28E-07	< 1.28E-09	< 6.12E-10	< 0.2	< 1.19E-06	< 3.61E-09	< 1.57E-09
1,2,4-Trichlorobenzene	< 1.2	< 2.22E-06	< 6.74E-09	< 2.91E-09	< 0.2	< 3.98E-07	< 1.21E-09	< 4.89E-10	< 0.2	< 3.51E-07	< 1.05E-09	< 5.03E-10	< 0.2	< 9.90E-07	< 3.00E-09	< 1.30E-09
Naphthalene	14.8	2.81E-05	8.52E-08	3.68E-08	21.5	4.57E-05	1.39E-07	5.63E-08	24.1	4.88E-05	1.45E-07	6.96E-08	22.8	4.08E-05	1.23E-07	5.42E-08
4-Chloroaniline	< 1.0	< 1.93E-06	< 5.87E-09	< 2.53E-09	< 0.1	< 3.09E-07	< 9.40E-10	< 3.81E-10	< 0.1	< 2.75E-07	< 8.21E-10	< 3.93E-10	< 0.1	< 8.39E-07	< 2.54E-09	< 1.10E-09
Hexachlorobutadiene	< 1.7	< 3.31E-06	< 1.00E-08	< 4.33E-09	< 0.3	< 6.63E-07	< 2.01E-09	< 8.16E-10	< 0.3	< 5.80E-07	< 1.73E-09	< 8.31E-10	< 0.3	< 1.52E-06	< 4.59E-09	< 1.99E-09
4-Chloro-3-methylphenol	< 1.4	< 2.68E-06	< 8.06E-09	< 3.48E-09	< 0.2	< 5.15E-07	< 1.57E-09	< 6.34E-10	< 0.2	< 4.12E-07	< 1.23E-09	< 5.90E-10	< 0.2	< 1.19E-06	< 3.62E-09	< 1.57E-09
2-Methylnaphthalene	2.7	5.18E-06	1.57E-08	6.79E-09	13.4	2.85E-05	8.67E-08	3.51E-08	15.6	3.14E-05	8.39E-08	4.50E-08	14.5	2.17E-05	6.54E-08	2.90E-08
Hexachlorocyclopentadiene	< 1.8	< 3.43E-06	< 1.04E-08	< 4.49E-09	< 0.3	< 6.77E-07	< 2.06E-09	< 8.34E-10	< 0.3	< 5.50E-07	< 1.64E-09	< 7.87E-10	< 0.3	< 1.55E-06	< 4.71E-09	< 2.04E-09
2,4,6-Trichlorophenol	< 1.6	< 3.04E-06	< 9.21E-09	< 3.97E-09	< 0.3	< 7.07E-07	< 2.15E-09	< 8.70E-10	< 0.3	< 5.04E-07	< 1.50E-09	< 7.21E-10	< 0.3	< 1.42E-06	< 4.29E-09	< 1.86E-09

TRC

Table L1-13

Extruder Tread Location B Speciated Semivolatiles

Compound	Run 1 Conc µg/m3	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft³ rubber	Run 2 Conc µg/m3	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft³ rubber	Run 3 Conc µg/m3	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft³ rubber	Average Conc µg/m3	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft³ rubber
n-Nitrosodimethylamine	< 3.2	< 6.11E-06	< 1.85E-08	< 8.00E-09	< 0.4	< 9.57E-07	< 2.91E-09	< 1.19E-09	< 0.4	< 7.18E-07	< 2.14E-09	< 1.03E-09	< 1.3	< 2.59E-06	< 7.86E-09	< 3.40E-09
2,4,6-Trichlorophenol	< 1.6	< 2.96E-06	< 8.99E-09	< 3.88E-09	< 0.3	< 7.22E-07	< 2.19E-09	< 8.88E-10	< 0.2	< 4.89E-07	< 1.48E-09	< 6.99E-10	< 0.3	< 1.39E-06	< 4.21E-09	< 1.82E-09
2-Chloronaphthalene	< 0.6	< 1.21E-06	< 3.67E-09	< 1.58E-09	< 0.1	< 2.06E-07	< 6.26E-10	< 2.54E-10	< 0.1	< 1.83E-07	< 5.47E-10	< 2.62E-10	< 0.1	< 5.33E-07	< 1.62E-09	< 7.00E-10
2-Nitroaniline	< 2.1	< 3.99E-06	< 1.21E-08	< 5.23E-09	< 0.4	< 7.81E-07	< 2.37E-09	< 9.61E-10	< 0.3	< 5.50E-07	< 1.64E-09	< 7.87E-10	< 0.3	< 1.77E-06	< 5.38E-09	< 2.32E-09
Dimethylphthalate	0.7	1.35E-06	4.11E-09	1.77E-09	< 0.1	< 1.91E-07	5.82E-10	2.36E-10	0.2	4.89E-07	1.46E-09	6.99E-10	< 0.2	< 6.78E-07	< 2.06E-09	< 9.03E-10
2,6-Dinitrotoluene	< 2.0	< 3.74E-06	< 1.13E-08	< 4.90E-09	< 0.4	< 7.66E-07	< 2.33E-09	< 9.43E-10	< 0.3	< 5.80E-07	< 1.73E-09	< 8.31E-10	< 0.3	< 1.70E-06	< 5.14E-09	< 2.22E-09
2,4-Dinitrotoluene	< 1.6	< 2.92E-06	< 8.55E-09	< 3.69E-09	< 0.3	< 5.74E-07	< 1.74E-09	< 7.07E-10	< 0.2	< 4.43E-07	< 1.32E-09	< 6.34E-10	< 0.2	< 1.28E-06	< 3.87E-09	< 1.68E-09
Acenaphthylene	3.2	6.03E-06	1.83E-08	7.90E-09	4.5	9.57E-06	2.91E-08	1.18E-08	3.6	7.70E-06	2.30E-08	1.10E-08	4.2	7.77E-06	2.35E-08	1.02E-08
3-Nitroaniline	< 2.2	< 4.23E-06	< 1.28E-08	< 5.54E-09	< 0.3	< 7.36E-07	< 2.24E-09	< 9.06E-10	< 0.3	< 5.80E-07	< 1.73E-09	< 8.31E-10	< 0.3	< 1.85E-06	< 5.60E-09	< 2.42E-09
Acenaphthene	0.0	3.61E-08	1.10E-10	4.73E-11	< 0.1	< 2.36E-07	< 7.16E-10	< 2.90E-10	< 0.1	< 1.99E-07	< 5.93E-10	< 2.84E-10	< 0.1	< 1.57E-07	< 4.73E-10	< 2.07E-10
2,4-Dinitrophenol	< 5.1	< 9.70E-06	< 2.94E-08	< 1.27E-08	< 1.4	< 3.00E-06	< 9.13E-09	< 3.70E-09	< 0.9	< 1.68E-06	< 5.02E-09	< 2.40E-09	< 1.1	< 4.80E-06	< 1.45E-08	< 6.27E-09
4-Nitrophenol	< 4.2	< 7.93E-06	< 2.41E-08	< 1.04E-08	< 1.4	< 2.90E-06	< 8.81E-09	< 3.57E-09	< 0.7	< 1.42E-06	< 4.24E-09	< 2.03E-09	< 1.0	< 4.08E-06	< 1.24E-08	< 5.33E-09
Dibenzofuran	0.3	6.32E-07	1.92E-09	8.28E-10	0.5	1.12E-06	3.40E-09	1.38E-09	0.4	8.25E-07	2.46E-09	1.18E-09	0.5	9.59E-07	2.59E-09	1.13E-09
Diethylphthalate	1.8	3.32E-06	1.01E-08	4.35E-09	94.0	2.00E-04	6.07E-07	2.46E-07	54.1	1.09E-04	3.25E-07	1.56E-07	74.0	1.04E-04	3.14E-07	1.35E-07
4-Chlorophenyl-phenylether	< 1.0	< 1.88E-06	< 5.70E-09	< 2.46E-09	< 0.2	< 4.27E-07	< 1.30E-09	< 5.26E-10	< 0.2	< 3.21E-07	< 9.58E-10	< 4.59E-10	< 0.2	< 8.76E-07	< 2.65E-09	< 1.15E-09
Fluorene	< 0.5	< 9.94E-07	< 3.02E-09	< 1.30E-09	< 0.1	< 2.08E-07	< 6.26E-10	< 2.54E-10	< 0.1	< 1.53E-07	< 4.56E-10	< 2.19E-10	< 0.1	< 4.51E-07	< 1.37E-09	< 5.91E-10
4-Nitroaniline	< 2.5	< 4.70E-06	< 1.43E-08	< 6.15E-09	< 0.4	< 8.54E-07	< 2.59E-09	< 1.05E-09	< 0.3	< 6.26E-07	< 1.87E-09	< 8.96E-10	< 0.4	< 2.06E-06	< 6.24E-09	< 2.70E-09
4,6-Dinitro-2-methylphenol	< 3.2	< 6.09E-06	< 1.85E-08	< 7.97E-09	< 0.8	< 1.69E-06	< 5.14E-09	< 2.08E-09	< 0.5	< 9.77E-07	< 2.92E-09	< 1.40E-09	< 0.6	< 2.92E-06	< 8.85E-09	< 3.82E-09
4-Bromophenyl-phenyether	< 2.0	< 3.85E-06	< 1.17E-08	< 5.04E-09	< 0.3	< 6.77E-07	< 2.06E-09	< 8.34E-10	< 0.3	< 6.11E-07	< 1.82E-09	< 8.74E-10	< 0.3	< 1.71E-06	< 5.19E-09	< 2.25E-09
Hexachlorobenzene	< 1.6	< 3.04E-06	< 9.21E-09	< 3.97E-09	< 0.2	< 5.30E-07	< 1.61E-09	< 6.53E-10	< 0.3	< 5.04E-07	< 1.50E-09	< 7.21E-10	< 0.2	< 1.36E-06	< 4.11E-09	< 1.78E-09
Pentachlorophenol	< 2.9	< 5.60E-06	< 1.70E-08	< 7.33E-09	< 0.8	< 1.66E-06	< 5.06E-09	< 2.05E-09	< 0.5	< 9.93E-07	< 2.96E-09	< 1.42E-09	< 0.6	< 2.75E-06	< 8.34E-09	< 3.60E-09
Phenanthrene	1.2	2.18E-06	6.63E-09	2.86E-09	2.7	5.66E-06	1.72E-08	6.96E-09	2.7	5.53E-06	1.65E-08	7.81E-09	2.7	4.46E-06	1.34E-08	5.91E-09
Anthracene	< 0.4	< 7.95E-07	< 2.41E-09	< 1.04E-09	< 0.1	< 1.62E-07	< 4.92E-10	< 1.99E-10	< 0.1	< 1.22E-07	< 3.65E-10	< 1.75E-10	< 0.1	< 3.60E-07	< 1.09E-09	< 4.72E-10
Di-n-butylphthalate	17.2	3.27E-05	9.92E-08	4.28E-08	4.3	9.16E-06	2.78E-08	1.13E-08	2.1	4.32E-06	1.29E-08	6.19E-09	3.2	1.54E-05	4.67E-08	2.01E-08
Fluoranthene	< 0.4	< 8.13E-07	< 2.47E-09	< 1.06E-09	0.4	8.10E-07	2.46E-09	9.97E-10	< 0.1	< 1.37E-07	< 4.10E-10	< 1.97E-10	< 0.2	< 5.67E-07	< 1.78E-09	< 7.53E-10
Pyrene	1.3	2.42E-06	7.35E-09	3.17E-09	2.3	4.87E-06	1.48E-08	6.00E-09	< 0.1	< 1.53E-07	< 4.56E-10	< 2.19E-10	< 1.2	< 2.49E-06	< 7.54E-09	< 3.13E-09
Butylbenzylphthalate	1.0	1.86E-06	5.65E-09	2.44E-09	0.9	1.78E-06	5.41E-09	2.19E-09	1.0	1.92E-06	5.76E-09	2.75E-09	0.9	1.86E-06	5.60E-09	2.46E-09
3,3'-Dichlorobenzidine	< 3.6	< 6.85E-06	< 2.08E-08	< 8.96E-09	< 0.5	< 1.16E-06	< 3.53E-09	< 1.43E-09	< 0.5	< 9.93E-07	< 2.96E-09	< 1.42E-09	< 0.6	< 3.00E-06	< 9.09E-09	< 3.94E-09
bis(2-Ethylhexyl)phthalate	10.1	1.92E-05	5.82E-08	2.51E-08	8.3	1.96E-05	6.01E-08	2.44E-08	12.4	2.49E-05	7.44E-08	3.56E-08	10.8	2.13E-05	6.42E-08	2.84E-08
Benzo(a)anthracene	< 0.9	< 1.70E-06	< 5.15E-09	< 2.22E-09	< 0.2	< 3.83E-07	< 1.16E-09	< 4.71E-10	< 0.1	< 2.44E-07	< 7.30E-10	< 3.50E-10	< 0.2	< 7.75E-07	< 2.35E-09	< 1.01E-09
Chrysene	< 1.0	< 1.84E-06	< 5.59E-09	< 2.41E-09	< 0.2	< 4.12E-07	< 1.25E-09	< 5.08E-10	< 0.1	< 2.76E-07	< 8.21E-10	< 3.93E-10	< 0.2	< 8.43E-07	< 2.56E-09	< 1.10E-09
Di-n-octylphthalate	< 0.7	< 1.35E-06	< 4.11E-09	< 1.77E-09	< 0.1	< 3.09E-07	< 9.40E-10	< 3.81E-10	< 0.1	< 2.14E-07	< 6.38E-10	< 3.06E-10	< 0.1	< 6.29E-07	< 1.90E-09	< 8.20E-10
Benzo(b)fluoranthene	< 1.3	< 2.53E-06	< 7.68E-09	< 3.31E-09	< 0.2	< 4.42E-07	< 1.34E-09	< 5.44E-10	< 0.2	< 3.67E-07	< 1.09E-09	< 5.25E-10	< 0.2	< 1.11E-06	< 3.37E-09	< 1.46E-09
Benzo(k)fluoranthene	< 1.4	< 2.64E-06	< 8.00E-09	< 3.45E-09	< 0.2	< 4.57E-07	< 1.39E-09	< 5.62E-10	< 0.2	< 3.82E-07	< 1.14E-09	< 5.46E-10	< 0.2	< 1.16E-06	< 3.51E-09	< 1.52E-09
Benzo(a)pyrene	< 1.6	< 3.04E-06	< 9.21E-09	< 3.97E-09	< 0.2	< 4.86E-07	< 1.48E-09	< 5.98E-10	< 0.2	< 4.26E-07	< 1.28E-09	< 6.12E-10	< 0.2	< 1.32E-06	< 3.99E-09	< 1.73E-09
Indeno(1,2,3-cd)pyrene	< 2.0	< 3.79E-06	< 1.15E-08	< 4.97E-09	< 0.2	< 4.71E-07	< 1.43E-09	< 5.90E-10	< 0.3	< 5.19E-07	< 1.55E-09	< 7.43E-10	< 0.2	< 1.59E-06	< 4.83E-09	< 2.10E-09
Dibenz(a,h)anthracene	< 2.6	< 4.88E-06	< 1.48E-08	< 6.39E-09	< 0.3	< 8.04E-07	< 1.83E-09	< 7.43E-10	< 0.3	< 6.57E-07	< 1.96E-09	< 9.40E-10	< 0.3	< 2.05E-06	< 6.20E-09	< 2.69E-09
Benzo(g,h,i)perylene	< 2.3	< 4.44E-06	< 1.35E-08	< 5.82E-09	< 0.2	< 5.30E-07	< 1.61E-09	< 6.53E-10	< 0.3	< 6.11E-07	< 1.82E-09	< 8.74E-10	< 0.3	< 1.86E-06	< 5.64E-09	< 2.45E-09
Total Detected	1997.0	3.79E-03	1.15E-05	4.97E-06	6757.7	1.44E-02	4.37E-05	1.77E-05	1926.0	1.16E-05	6.55E-06	5.55E-06	4306.0	7.29E-03	2.20E-05	9.31E-06
Total with non-detects	< 2255.0	< 4.28E-03	< 1.30E-05	< 5.61E-06	< 6785.0	< 1.44E-02	< 4.39E-05	< 1.78E-05	< 1948.3	< 3.92E-03	< 1.17E-05	< 5.81E-06	< 4367.8	< 7.55E-03	< 2.29E-05	< 9.66E-06

TRC

Table I.1-14

Extruder SBR Locations A and B Speciated Volatiles

Compound	CAS #	Run 1				Run 2				Run 3				Average			
		Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft³ rubber
Dichlorodifluoromethane	75-71-8	10.1	2.38E-05	3.97E-08	4.23E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 14.0	< 2.98E-05	< 5.63E-08	< 6.08E-08
Chloromethane	74-87-3	11.8	2.79E-05	4.65E-08	4.96E-08	110.2	2.27E-04	4.66E-07	4.66E-07	4.5	1.72E-05	3.56E-08	3.80E-08	42.1	9.08E-05	1.83E-07	1.85E-07
Vinyl Chloride	75-01-4	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	6.1	2.81E-05	5.76E-08	5.77E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 12.7	< 3.32E-05	< 6.34E-08	< 6.64E-08
1,3 Butadiene	106-99-0	< 27.3	< 6.48E-05	< 1.08E-07	< 1.15E-07	11.8	2.34E-05	4.79E-08	4.80E-08	< 16.3	< 3.82E-05	< 7.88E-08	< 8.41E-08	< 18.5	< 4.21E-05	< 7.83E-08	< 8.25E-08
Chloroethane	75-00-3	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	21.0	5.88E-05	1.21E-07	1.21E-07	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 17.7	< 4.34E-05	< 9.44E-08	< 9.74E-08
Bromomethane	74-83-9	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
Acetonitrile	1722-09-4	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	< 32.0	< 6.41E-05	< 1.31E-07	< 1.31E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 32.0	< 6.90E-05	< 1.32E-07	< 1.38E-07
Acrolein	107-02-8	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	40.0	1.14E-04	2.33E-07	2.33E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 34.7	< 8.55E-05	< 1.66E-07	< 1.72E-07
Acetone	67-64-1	92.0	2.16E-04	3.60E-07	3.84E-07	197.0	4.02E-04	8.23E-07	8.24E-07	157.0	3.04E-04	6.27E-07	6.70E-07	148.7	3.07E-04	6.04E-07	6.26E-07
Propylene Oxide	75-56-9	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	280.0	6.09E-04	1.25E-06	1.25E-06	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 114.7	< 2.50E-04	< 5.04E-07	< 5.10E-07
Trichlorofluoromethane	75-69-4	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
Acrylonitrile	107-13-1	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	< 32.0	< 6.41E-05	< 1.31E-07	< 1.31E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 32.0	< 6.90E-05	< 1.32E-07	< 1.38E-07
1,1-Dichloroethane	75-35-4	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
Methylene Chloride	75-09-2	28.0	6.60E-05	1.10E-07	1.17E-07	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 20.0	< 4.39E-05	< 8.18E-08	< 8.58E-08
Allyl Chloride	107-05-1	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	< 32.0	< 6.41E-05	< 1.31E-07	< 1.31E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 32.0	< 6.90E-05	< 1.32E-07	< 1.38E-07
Carbon Disulfide	75-15-0	19.4	4.62E-05	7.54E-08	8.04E-08	51.0	1.03E-04	2.10E-07	2.11E-07	14.3	2.97E-05	6.13E-08	6.55E-08	29.2	5.92E-05	1.16E-07	1.19E-07
Trichlorotrifluoroethane	76-13-1	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
trans-1,2-Dichloroethene	156-60-5	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	11.0	4.09E-05	8.42E-08	8.99E-08	< 14.3	< 3.69E-05	< 7.09E-08	< 7.42E-08
cis-1,2-Dichloroethene	156-59-2	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	880.0	2.09E-03	4.30E-06	4.60E-06	< 304.0	< 7.18E-04	< 1.48E-06	< 1.58E-06
1,1-Dichloroethane	75-34-3	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
t-Butyl Methyl Ether	1634-04-4	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	< 32.0	< 6.41E-05	< 1.31E-07	< 1.31E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 32.0	< 6.90E-05	< 1.32E-07	< 1.38E-07
Vinyl Acetate	108-05-4	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
2-Butanone	78-93-3	15.9	3.72E-05	6.20E-08	6.61E-08	23.3	4.75E-05	9.74E-08	9.75E-08	10.8	5.77E-05	1.19E-07	1.27E-07	16.7	4.75E-05	9.29E-08	9.70E-08
n-Hexane	110-54-3	11.0	2.73E-05	4.55E-08	4.85E-08	0.0	1.65E-05	3.38E-08	3.39E-08	1500.0	3.52E-03	7.26E-06	7.75E-06	503.7	1.19E-03	2.45E-06	2.61E-06
Chloroform	67-66-3	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	10.0	3.62E-05	7.41E-08	7.42E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 14.0	< 3.59E-05	< 6.89E-08	< 7.19E-08
1,2-Dichloroethane	107-06-3	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
1,1,1-Trichloroethane	71-55-6	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	7.7	3.30E-05	6.81E-08	7.20E-08	< 13.2	< 3.42E-05	< 6.56E-08	< 6.85E-08
Benzene	71-43-2	10.3	2.42E-05	4.04E-08	4.31E-08	4.7	9.63E-06	1.97E-08	1.98E-08	68.8	1.49E-04	3.07E-07	3.20E-07	27.3	6.09E-05	1.22E-07	1.30E-07
Carbon Tetrachloride	56-23-5	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
1,2-Dichloropropane	78-87-5	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
Bromodichloromethane	75-27-4	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
1,4-Dioxane	123-91-1	< 64.0	< 1.51E-04	< 2.52E-07	< 2.68E-07	< 64.0	< 1.28E-04	< 2.63E-07	< 2.63E-07	< 64.0	< 1.35E-04	< 2.78E-07	< 2.97E-07	< 64.0	< 1.38E-04	< 2.64E-07	< 2.76E-07
Trichloroethene	79-01-6	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	190.0	4.62E-04	9.53E-07	1.02E-06	< 74.0	< 1.77E-04	< 3.61E-07	< 3.84E-07
Epichlorohydrin	106-89-8	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	< 32.0	< 6.41E-05	< 1.31E-07	< 1.31E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 32.0	< 6.90E-05	< 1.32E-07	< 1.38E-07
cis-1,3-Dichloropropene	1006-01-5	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
4-Methyl-2-Pentanone	108-10-1	384.0	8.79E-04	1.47E-06	1.56E-06	369.0	7.24E-04	1.48E-06	1.48E-06	486.0	9.09E-04	1.88E-06	2.00E-06	413.0	8.37E-04	1.61E-06	1.68E-06
trans-1,2-Dichloropropene	1006-02-6	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
1,1,2-Trichloroethane	79-00-5	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
Toluene	108-88-3	135.6	3.15E-04	5.25E-07	5.60E-07	< 9.1	< 1.86E-05	< 3.82E-08	< 3.82E-08	110.0	2.29E-04	4.66E-07	4.97E-07	< 84.9	< 1.86E-04	< 3.43E-07	< 3.65E-07
Chlorodibromomethane	124-48-1	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
2-Hexanone	591-78-6	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
1,2-Dibromoethane	106-93-4	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
Tetrachloroethene	127-18-4	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	92.0	2.31E-04	4.77E-07	5.10E-07	< 41.3	< 1.00E-04	< 2.02E-07	< 2.14E-07

* Combination of TO-14 and Ozone Precursor methods.

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-14

Extruder SBR Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Chlorobenzene	108-90-7	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
Bromoform	75-25-2	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
* Styrene	100-42-5	4.6	1.11E-05	< 1.84E-08	1.97E-08	4.6	9.35E-06	1.92E-08	1.92E-08	17.2	3.89E-05	8.03E-08	8.57E-08	8.8	< 1.98E-05	< 3.93E-08	< 4.15E-08
* m & p xylenes	1330-20-7	13.2	3.01E-05	5.03E-08	5.36E-08	2.2	2.08E-05	4.26E-08	4.26E-08	19.0	4.22E-05	8.71E-08	9.30E-08	11.5	3.10E-05	6.00E-08	6.31E-08
* o-Xylene	95-47-6	< 15.7	< 3.71E-05	6.19E-08	< 6.60E-08	10.2	2.08E-05	4.27E-08	4.28E-08	274.3	6.43E-04	1.33E-06	1.42E-06	< 100.1	2.34E-04	4.77E-07	5.09E-07
1,1,2,2-Tetrachloroethane	79-34-5	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.95E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
* Cumene	98-82-8	< 17.7	< 4.34E-05	< 7.24E-08	< 7.72E-08	1.6	3.61E-05	7.40E-08	7.41E-08	7.4	1.58E-05	3.27E-08	3.49E-08	< 8.9	< 3.19E-05	< 5.97E-08	< 6.21E-08
Benzyl Chloride	100-44-7	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	< 32.0	< 6.41E-05	< 1.31E-07	< 1.31E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 32.0	< 6.90E-05	< 1.32E-07	< 1.38E-07
1,3-Dichlorobenzene	541-34-5	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
1,4-Dichlorobenzene	106-73-1	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
1,2-Dichlorobenzene	95-50-1	< 16.0	< 3.77E-05	< 6.29E-08	< 6.71E-08	< 16.0	< 3.20E-05	< 6.56E-08	< 6.57E-08	< 16.0	< 3.37E-05	< 6.96E-08	< 7.43E-08	< 16.0	< 3.45E-05	< 6.60E-08	< 6.90E-08
1,2-Dibromo-3-Chloropropane	96-12-8	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	< 32.0	< 6.41E-05	< 1.31E-07	< 1.31E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 32.0	< 6.90E-05	< 1.32E-07	< 1.38E-07
Hexachlorobutadiene	87-68-3	< 32.0	< 7.54E-05	< 1.26E-07	< 1.34E-07	< 32.0	< 6.41E-05	< 1.31E-07	< 1.31E-07	< 32.0	< 6.74E-05	< 1.39E-07	< 1.49E-07	< 32.0	< 6.90E-05	< 1.32E-07	< 1.38E-07
+ C9H12 Alkyl Substituted Benzene		60.0	1.34E-04	2.24E-07	2.39E-07	30.0	5.82E-05	1.19E-07	1.19E-07	0.0	0.00E+00	0.00E+00	0.00E+00	30.0	6.41E-05	1.14E-07	1.19E-07
+ C10H18 Cyclic Hydrocarbon		210.0	4.77E-04	7.96E-07	8.49E-07	340.0	6.66E-04	1.36E-06	1.37E-06	130.0	2.67E-04	5.30E-07	5.66E-07	226.7	4.66E-04	8.97E-07	9.27E-07
+ Undecane	1120-21-4	40.0	8.95E-05	1.49E-07	1.59E-07	40.0	7.76E-05	1.59E-07	1.59E-07	60.0	1.12E-04	2.31E-07	2.46E-07	46.7	9.29E-05	1.80E-07	1.88E-07
+ bis-Methylethylbenzene		40.0	8.95E-05	1.49E-07	1.59E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	13.3	2.98E-05	4.97E-08	5.31E-08
+ Dodecane	112-40-3	40.0	8.95E-05	1.49E-07	1.59E-07	70.0	1.36E-04	2.78E-07	2.79E-07	90.0	1.68E-04	3.46E-07	3.69E-07	66.7	1.31E-04	2.58E-07	2.69E-07
+ Cyclobutane	287-23-0	0.0	0.00E+00	0.00E+00	0.00E+00	130.0	2.64E-04	5.41E-07	5.42E-07	40.0	7.46E-05	1.54E-07	1.64E-07	56.7	1.13E-04	2.32E-07	2.35E-07
+ C9H10 Alkyl Substituted Benzene		0.0	0.00E+00	0.00E+00	0.00E+00	30.0	5.82E-05	1.19E-07	1.19E-07	0.0	0.00E+00	0.00E+00	0.00E+00	10.0	1.94E-05	3.98E-08	3.98E-08
+ C13H18 Substituted Benzene		0.0	0.00E+00	0.00E+00	0.00E+00	40.0	7.76E-05	1.59E-07	1.59E-07	50.0	9.31E-05	1.92E-07	2.05E-07	30.0	5.69E-05	1.17E-07	1.21E-07
+ Ethylhexanol		0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	660.0	1.23E-03	2.54E-06	2.71E-06	220.0	4.10E-04	8.45E-07	9.03E-07
+ C11 + C12 Alkanes		0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	60.0	1.12E-04	2.31E-07	2.46E-07	20.0	3.72E-05	7.69E-08	8.21E-08
+ Propane	115-07-1	0.0	0.00E+00	0.00E+00	0.00E+00	200.0	4.13E-04	8.46E-07	8.47E-07	0.0	0.00E+00	0.00E+00	0.00E+00	66.7	1.38E-04	2.82E-07	2.82E-07
+ Butane	106-97-8	0.0	0.00E+00	0.00E+00	0.00E+00	30.0	6.19E-05	1.27E-07	1.27E-07	0.0	0.00E+00	0.00E+00	0.00E+00	10.0	2.06E-05	4.23E-08	4.23E-08
+ Cyclopentane	287-92-3	0.0	0.00E+00	0.00E+00	0.00E+00	50.0	1.03E-04	2.11E-07	2.12E-07	0.0	0.00E+00	0.00E+00	0.00E+00	16.7	3.44E-05	7.05E-08	7.05E-08
+ Butanol	71-36-3	0.0	0.00E+00	0.00E+00	0.00E+00	30.0	6.19E-05	1.27E-07	1.27E-07	0.0	0.00E+00	0.00E+00	0.00E+00	10.0	2.06E-05	4.23E-08	4.23E-08
+ Methylpentane		0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	50.0	1.19E-04	2.43E-07	2.59E-07	16.7	3.92E-05	8.09E-08	8.64E-08
++ Ethylene	00074-85-1	< 7.5	< 1.81E-05	< 3.02E-08	< 3.22E-08	< 26.0	< 5.53E-05	< 1.13E-07	< 1.13E-07	< 1.2	< 2.46E-06	< 5.08E-09	< 5.42E-09	< 11.8	< 2.63E-06	< 4.95E-08	< 5.04E-08
++ Acetylene	00074-86-2	< 9.6	< 2.31E-05	< 3.86E-08	< 4.12E-08	< 16.9	< 3.46E-05	< 7.08E-08	< 7.09E-08	< 1.1	< 2.28E-06	< 4.71E-09	< 5.03E-09	< 9.2	< 2.00E-05	< 3.80E-08	< 3.90E-08
++ Ethane	00074-84-0	< 11.9	< 2.93E-05	< 4.89E-08	< 5.21E-08	< 11.9	< 2.44E-05	< 5.01E-08	< 5.01E-08	< 1.3	< 2.64E-06	< 5.44E-09	< 5.81E-09	< 8.3	< 1.88E-05	< 3.48E-08	< 3.60E-08
++ Propylene	00115-07-1	< 0.8	< 1.93E-06	< 3.06E-09	< 3.26E-09	< 29.0	< 5.97E-05	< 1.22E-07	< 1.23E-07	< 0.8	< 1.64E-06	< 3.38E-09	< 3.61E-09	< 10.2	< 2.11E-05	< 4.29E-08	< 4.31E-08
++ Propane	00074-98-6	< 20.8	< 4.97E-05	< 8.30E-08	< 8.85E-08	< 9.6	< 1.97E-05	< 4.04E-08	< 4.04E-08	< 0.8	< 1.72E-06	< 3.55E-09	< 3.79E-09	< 10.4	< 2.37E-05	< 4.23E-08	< 4.42E-08
++ Methylacetylene	00074-99-7	< 0.7	< 1.70E-06	< 2.84E-09	< 3.03E-09	< 5.0	< 1.02E-05	< 2.09E-08	< 2.09E-08	< 0.7	< 1.52E-06	< 3.14E-09	< 3.35E-09	< 2.1	< 4.47E-06	< 8.96E-09	< 9.10E-09
++ Isobutane	00075-28-5	< 0.5	< 2.03E-05	< 3.38E-08	< 3.60E-08	< 0.6	< 1.21E-06	< 2.48E-09	< 2.48E-09	< 0.6	< 1.27E-06	< 2.63E-09	< 2.81E-09	< 3.2	< 7.58E-06	< 1.30E-08	< 1.38E-08
++ Isobutylene + 1-Butene	00115-11-7, 00106-98-9	< 69.5	< 1.46E-04	< 2.42E-07	< 2.58E-07	< 2.4	< 4.90E-06	< 9.94E-09	< 9.95E-09	< 2.4	< 5.06E-06	< 1.04E-08	< 1.11E-08	< 21.4	< 5.17E-05	< 8.75E-08	< 9.31E-08
++ n-Butane	00106-97-8	< 32.0	< 7.73E-05	< 1.29E-07	< 1.38E-07	5.4	3.30E-05	6.76E-08	6.77E-08	< 0.6	< 1.27E-06	< 2.63E-09	< 2.81E-09	< 12.7	< 3.72E-05	< 6.64E-08	< 6.94E-08
++ trans-2-Butene	000624-64-6	< 0.6	< 1.38E-06	< 2.29E-09	< 2.45E-09	< 0.6	< 1.17E-06	< 2.39E-09	< 2.40E-09	< 0.6	< 1.23E-06	< 2.54E-09	< 2.71E-09	< 0.6	< 1.26E-06	< 2.41E-09	< 2.52E-09
++ 2,3-Dimethylpropane	00463-82-1	< 0.5	< 1.13E-06	< 1.89E-09	< 2.01E-09	< 0.5	< 9.61E-07	< 1.97E-09	< 1.97E-09	< 0.5	< 1.01E-06	< 2.09E-09	< 2.23E-09	< 0.5	< 1.03E-06	< 1.98E-09	< 2.07E-09
++ Ethylacetylene	00107-00-6	< 0.6	< 1.33E-06	< 2.21E-09	< 2.36E-09	< 1.7	< 3.56E-06	< 7.30E-09	< 7.31E-09	< 0.6	< 1.19E-06	< 2.45E-09	< 2.61E-09	< 1.0	< 2.02E-06	< 3.99E-09	< 4.09E-09
++ cis-2-Butene	00590-18-1	< 0.6	< 1.38E-06	< 2.29E-09	< 2.45E-09	< 1.9	< 3.92E-06	< 7.92E-09	< 7.93E-09	< 0.6	< 1.23E-06	< 2.54E-09	< 2.71E-09	< 1.0	< 2.14E-06	< 4.22E-09	< 4.33E-09
++ Isopentane	00078-78-4	< 222.1	< 5.31E-04	< 8.87E-07	< 9.46E-07	22.2	1.31E-04	2.68E-07	2.69E-07	16.8	1.17E-04	2.42E-07	2.59E-07	< 87.0	< 2.60E-04	< 4.66E-07	< 4.91E-07
++ 1-Pentene	00109-67-1	< 0.5	< 1.10E-06	< 1.84E-09	< 1.96E-09	< 3.7	< 7.55E-06	< 1.55E-08	< 1.55E-08	< 0.5	< 9.84E-07	< 2.03E-09	< 2.17E-09	< 1.5	< 3.21E-06	< 6.45E-09	< 6.84E-09
++ 2-Methyl-1-butene	00563-45-2	< 0.5	< 1.10E-06	< 1.84E-09	< 1.96E-09	< 2.2	< 4.55E-06	< 9.31E-09	< 9.32E-09	< 0.5	< 9.84E-07	< 2.03E-09	< 2.17E-09	< 1.1	< 2.21E-06	< 4.39E-09	< 4.48E-09
++ n-Pentane	00109-66-0	< 31.2	< 7.63E-05	< 1.27E-07	< 1.36E-07	2.3	1.10E-05	2.25E-08	2.25E-08	1.7	3.69E-06	7.62E-09	8.14E-09	< 11.7	< 3.03E-05	< 5.25E-08	< 5.55E-08
++ Isoprene	00078-79-5	< 3.3	< 7.53E-06	< 1.26E-08	< 1.34E-08	0.7	3.07E-06	6.30E-09	6.30E-09	1.9	7.61E-06	1.57E-08	1.68E-08	< 2.0	< 6.07E-06	< 1.15E-08	< 1.22E-08
++ trans-2-Pentene	000646-04-8	< 0.5	< 1.10E-06	< 1.84E-09	< 1.96E-09	< 0.5	< 9.34E-07	< 1.91E-09	< 1.92E-09	< 0.5	< 9.84E-07	< 2.03E-09	< 2.17E-09	< 0.5	< 1.01E-06	< 1.93E-09	< 2.01E-09
++ cis-2-Pentene	000627-20-3	< 9.6	< 2.37E-05	< 3.95E-08	< 4.21E-08	< 1.4	< 2.81E-06	< 5.76E-09	< 5.76E-09	< 2.4	< 5.06E-06	< 1.04E-08	< 1.11E-08	< 4.5	< 1.05E-05	< 1.86E-08	< 1.97E-08
++ 2-Methyl-2-butene	00513-35-9	< 0.5	< 1.10E-06	< 1.84E-09	< 1.96E-09	< 5.5	< 1.14E-05	< 2.34E-08	< 2.34E-08	< 0.5	< 9.84E-07	< 2.03E-09	< 2.17E-09	< 2.2	< 4.50E-06	< 9.08E-09	< 9.17E-09
++ 2,2-Dimethylbutane	00075-83-2	< 0.4	< 9.39E-07	< 1.57E-09	< 1.67E-09	< 2.4	< 4.95E-06	< 1.01E-08	< 1.01E-08	< 0.4	< 8.39E-07	< 1.73E-09	< 1.85E-09	< 1.1	< 2.24E-06	< 4.48E-09	< 4.56E-09

* Combination of TO-14 and Ozone Precursor methods.

\+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-14

Extruder SBR Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft³ rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft³ rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft³ rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft³ rubber
++ Cyclopentane	00142-29-0	< 0.8	< 1.07E-06	< 1.78E-09	< 1.90E-09	< 2.4	< 9.07E-07	< 1.86E-09	< 1.86E-09	1.7	3.70E-06	7.63E-09	8.15E-09	< 1.8	< 1.89E-06	< 3.76E-09	< 3.97E-09
++ 4-Methyl-1-pentene	00691-37-2	< 0.4	< 9.17E-07	1.53E-09	< 1.63E-09	< 0.2	< 7.79E-07	< 1.60E-09	< 1.60E-09	< 0.2	< 8.20E-07	< 1.69E-09	< 1.81E-09	< 0.3	< 8.38E-07	< 1.61E-09	< 1.68E-09
++ Cyclopentene + 2,3-Dimethylbuta	00287-92-3, 00079-29-8	< 15.0	< 3.58E-05	5.97E-08	< 6.37E-08	< 0.3	< 1.04E-06	< 2.13E-09	< 2.14E-09	< 0.3	< 1.10E-06	< 2.26E-09	< 2.42E-09	< 5.2	< 1.26E-05	< 2.14E-08	< 2.27E-08
++ 2-Methylpentane	00107-83-5	< 17.3	< 4.11E-05	6.85E-08	< 7.31E-08	2.9	9.88E-06	2.02E-08	2.03E-08	3.9	1.02E-05	2.10E-08	2.24E-08	< 8.0	2.04E-05	3.66E-08	3.86E-08
++ 3-Methylpentane	00096-14-0	< 15.8	< 3.77E-05	6.29E-08	< 6.71E-08	< 0.2	< 7.97E-07	< 1.63E-09	< 1.64E-09	2.7	2.47E-05	5.09E-08	5.44E-08	< 6.2	< 2.11E-05	< 3.85E-08	< 4.11E-08
++ 1-Hexene	00592-41-6	< 0.4	< 9.17E-07	1.53E-09	< 1.63E-09	< 0.2	< 6.28E-06	< 1.29E-08	< 1.29E-08	< 0.2	< 2.47E-04	< 5.11E-07	< 5.45E-07	< 0.3	8.49E-06	1.75E-07	1.87E-07
++ n-Hexane	00110-54-3	29.3	6.60E-05	1.10E-07	1.17E-07	0.0	0.23E-06	1.69E-08	1.69E-08	0.6	2.48E-04	5.12E-07	5.47E-07	10.0	< 1.07E-04	< 2.13E-07	< 2.27E-07
++ trans-2-Hexene	04050-45-7	< 0.4	< 9.17E-07	< 1.53E-09	< 1.63E-09	< 0.4	< 7.79E-07	< 1.60E-09	< 1.60E-09	< 0.4	< 8.20E-07	< 1.69E-09	< 1.81E-09	< 0.4	< 8.38E-07	< 1.61E-09	< 1.68E-09
++ 2-Methyl-2-pentene	00625-27-4	< 0.4	< 9.17E-07	< 1.53E-09	< 1.63E-09	< 0.4	< 7.79E-07	< 1.60E-09	< 1.60E-09	< 0.4	< 8.20E-07	< 1.69E-09	< 1.81E-09	< 0.4	< 8.38E-07	< 1.61E-09	< 1.68E-09
++ cis-2-Hexene	07688-21-3	< 0.4	< 9.17E-07	< 1.53E-09	< 1.63E-09	< 0.5	< 8.68E-06	< 1.78E-08	< 1.78E-08	< 0.5	< 8.20E-07	< 1.69E-09	< 1.81E-09	< 0.4	< 3.47E-06	< 7.00E-09	< 7.08E-09
++ Methylcyclopentane	00096-37-7	< 20.4	< 4.68E-05	< 8.14E-08	< 8.68E-08	< 3.3	< 2.73E-06	< 5.59E-09	< 5.60E-09	< 2.5	< 8.25E-06	< 1.70E-07	< 1.82E-07	< 8.7	< 4.47E-05	< 8.58E-08	< 9.14E-08
++ Cyclohexane	00110-82-7	< 0.4	< 9.17E-07	< 1.53E-09	< 1.63E-09	< 0.4	< 7.79E-07	< 1.60E-09	< 1.60E-09	< 0.6	< 8.20E-07	< 1.69E-09	< 1.81E-09	< 3.1	< 8.38E-07	< 1.61E-09	< 1.68E-09
++ 2-Methylhexane	00591-76-4	< 0.3	< 8.02E-07	1.34E-09	< 1.43E-09	< 3.0	< 6.81E-07	< 1.40E-09	< 1.40E-09	< 105.2	< 7.17E-07	< 1.48E-09	< 1.58E-09	< 36.2	< 7.33E-07	< 1.40E-09	< 1.47E-09
++ 2,3-Dimethylpentane	00565-59-3	< 0.3	< 8.02E-07	< 1.34E-09	< 1.43E-09	< 3.0	< 6.81E-07	< 1.40E-09	< 1.40E-09	< 105.2	< 7.17E-07	< 1.48E-09	< 1.58E-09	< 36.2	< 7.33E-07	< 1.40E-09	< 1.47E-09
++ 3-Methylhexane	00589-34-4	< 3.3	< 8.20E-06	< 1.37E-08	< 1.46E-08	< 0.4	< 6.81E-07	< 1.40E-09	< 1.40E-09	< 0.4	< 7.17E-07	< 1.48E-09	< 1.58E-09	< 1.4	< 3.20E-06	< 5.52E-09	< 5.86E-09
++ 1-Heptene	00592-76-7	< 0.3	< 7.66E-07	< 1.31E-09	< 1.40E-09	< 0.4	< 6.67E-07	< 1.37E-09	< 1.37E-09	< 0.4	< 6.07E-05	< 1.25E-07	< 1.34E-07	< 0.4	< 2.07E-05	< 4.27E-08	< 4.55E-08
++ Isooctane	00540-84-1	< 9.8	< 2.34E-05	< 3.94E-08	< 4.21E-08	< 4.2	< 5.94E-07	< 1.22E-09	< 1.22E-09	< 0.3	< 6.26E-07	< 1.29E-09	< 1.38E-09	< 4.8	< 8.29E-06	< 1.40E-09	< 1.49E-08
++ n-Heptane	00142-82-5	< 9.5	< 2.22E-05	< 3.70E-08	< 3.95E-08	< 0.4	< 6.81E-07	< 1.40E-09	< 1.40E-09	< 34.3	< 7.17E-07	< 1.48E-09	< 1.58E-09	< 14.7	< 7.86E-06	< 1.33E-08	< 1.41E-08
++ Methylcyclohexane	00108-87-2	< 7.8	< 1.92E-05	< 3.20E-08	< 3.41E-08	< 0.4	< 6.67E-07	< 1.37E-09	< 1.37E-09	< 0.4	< 7.03E-07	< 1.45E-09	< 1.55E-09	< 2.8	< 6.85E-06	< 1.16E-08	< 1.23E-08
++ 2,4-Dimethylhexane	00589-43-5	< 0.3	< 7.00E-07	< 1.17E-09	< 1.25E-09	< 0.3	< 5.94E-07	< 1.22E-09	< 1.22E-09	< 0.3	< 6.26E-07	< 1.29E-09	< 1.38E-09	< 0.3	< 6.40E-07	< 1.23E-09	< 1.28E-09
++ 2,3,4-Trimethylpentane	00565-75-3	< 0.3	< 7.00E-07	< 1.17E-09	< 1.25E-09	< 0.3	< 5.94E-07	< 1.22E-09	< 1.22E-09	< 0.3	< 6.26E-07	< 1.29E-09	< 1.38E-09	< 0.3	< 6.40E-07	< 1.23E-09	< 1.28E-09
++ 2-Methylheptane	00592-27-8	< 0.3	< 7.00E-07	< 1.17E-09	< 1.25E-09	< 0.3	< 5.94E-07	< 1.22E-09	< 1.22E-09	< 0.3	< 6.26E-07	< 1.29E-09	< 1.38E-09	< 0.3	< 6.40E-07	< 1.23E-09	< 1.28E-09
++ 1-Octene	00111-66-0	< 0.3	< 6.88E-07	< 1.15E-09	< 1.22E-09	< 0.3	< 5.84E-07	< 1.20E-09	< 1.20E-09	< 25.6	< 6.15E-07	< 1.27E-09	< 1.36E-09	< 8.8	< 6.29E-07	< 1.20E-09	< 1.26E-09
++ n-Octane	00111-65-9	< 2.5	< 6.22E-06	< 1.04E-08	< 1.11E-08	1.2	2.61E-06	5.35E-09	5.36E-09	< 0.3	< 6.26E-07	< 1.29E-09	< 1.38E-09	< 1.3	< 3.15E-06	< 5.67E-09	< 5.93E-09
* Ethylbenzene	00100-41-4	< 11.6	< 2.77E-05	< 4.62E-08	< 4.93E-08	2.3	1.93E-05	3.95E-08	3.96E-08	3.5	4.77E-04	9.86E-07	1.05E-06	< 6.0	< 1.75E-04	< 3.57E-07	< 3.80E-07
++ n-Nonane	00111-84-2	< 0.2	< 5.21E-07	< 1.04E-09	< 1.10E-09	< 0.3	< 5.28E-07	< 1.08E-09	< 1.08E-09	< 0.3	< 5.55E-07	< 1.15E-09	< 1.22E-09	< 0.3	< 5.68E-07	< 1.09E-09	< 1.14E-09
++ a-Pinene	07785-70-8	< 2.1	< 4.72E-06	< 7.87E-09	< 8.39E-09	< 1.2	< 2.37E-06	< 4.85E-09	< 4.86E-09	3.7	7.12E-06	1.47E-08	1.57E-08	< 2.3	< 4.74E-06	< 9.14E-09	< 9.65E-09
++ n-Propylbenzene	00103-65-1	< 0.2	< 5.82E-07	< 9.71E-10	< 1.04E-09	1.3	2.94E-06	5.82E-09	5.83E-09	2.0	4.01E-06	8.28E-09	8.85E-09	< 1.2	< 2.48E-06	< 5.03E-09	< 5.34E-09
++ m-Ethyltoluene	00620-14-4	< 12.8	< 3.02E-05	< 5.04E-08	< 5.37E-08	8.7	1.90E-05	3.90E-08	3.90E-08	10.0	1.89E-05	3.90E-08	4.17E-08	< 9.8	< 2.27E-05	< 4.28E-08	< 4.48E-08
++ p-Ethyltoluene	00622-96-8	< 10.1	< 2.27E-05	< 3.78E-08	< 4.03E-08	11.7	3.10E-05	6.35E-08	6.36E-08	12.2	2.30E-05	4.78E-08	5.08E-08	< 11.3	< 2.56E-05	< 4.96E-08	< 5.16E-08
++ 1,3,5-Trimethylbenzene	00108-67-8	< 12.8	< 2.89E-05	< 4.81E-08	< 5.14E-08	13.9	3.73E-05	7.64E-08	7.64E-08	17.2	8.96E-05	1.85E-07	1.97E-07	< 14.6	< 5.19E-05	< 1.03E-07	< 1.08E-07
++ o-Ethyltoluene	00611-14-3	< 6.2	< 1.40E-05	2.33E-08	< 2.48E-08	15.5	1.74E-05	3.57E-08	3.58E-08	208.3	1.70E-05	3.50E-08	3.74E-08	< 76.7	1.61E-05	3.13E-08	3.27E-08
++ b-Pinene	19172-67-3	< 30.6	< 7.57E-05	< 1.26E-07	< 1.35E-07	< 0.7	< 1.11E-04	< 2.27E-07	< 2.28E-07	< 0.7	< 2.39E-06	< 4.93E-09	< 5.26E-09	< 10.6	< 6.30E-05	< 1.20E-07	< 1.23E-07
++ 1,2,4-Trimethylbenzene	00095-63-6	< 122.2	< 2.79E-04	< 4.65E-07	< 4.96E-07	< 0.7	< 8.26E-05	< 1.69E-07	< 1.69E-07	144.4	3.27E-04	6.74E-07	7.20E-07	< 89.1	< 2.29E-04	< 4.36E-07	< 4.62E-07
++ n-Decane	00124-18-5	< 10.1	< 2.48E-05	< 4.14E-08	< 4.41E-08	< 0.7	< 2.37E-06	< 4.86E-09	< 4.86E-09	< 0.7	< 2.49E-06	< 5.15E-09	< 5.50E-09	< 3.8	< 9.88E-06	< 1.71E-08	< 1.82E-08
++ p-Cymene	00099-87-6	< 19.5	< 4.68E-05	< 7.80E-08	< 8.32E-08	6.1	1.31E-05	2.68E-08	2.68E-08	21.8	4.18E-05	8.64E-08	9.23E-08	< 15.8	< 3.39E-05	< 6.37E-08	< 6.74E-08
++ d-Limonene	059-27-5	< 1.1	< 2.67E-06	< 4.46E-09	< 4.75E-09	< 4.7	< 2.27E-06	< 4.65E-09	< 4.65E-09	6.8	1.40E-05	2.89E-08	3.08E-08	< 4.2	< 8.31E-06	< 1.27E-08	< 1.34E-08
++ 1,4-Diethylbenzene + n-Butylben	00105-05-5, 00104-51-8	< 1.1	< 2.63E-06	< 4.39E-09	< 4.68E-09	< 5.6	< 2.24E-06	< 4.58E-09	< 4.58E-09	< 25.0	< 2.35E-06	< 4.85E-09	< 5.19E-09	< 10.6	< 2.41E-06	< 4.61E-09	< 4.82E-09
Total Detected		1155.0	2.65E-03	4.68E-06	4.71E-06	2225.0	4.80E-03	9.84E-06	9.85E-06	5447.1	1.24E-02	2.62E-05	2.80E-05	2049.8	4.42E-03	8.81E-06	9.25E-06
Total with non-detects		< 2849.8	< 6.55E-03	< 1.11E-05	< 1.19E-05	< 3175.6	< 6.87E-03	< 1.41E-05	< 1.41E-05	< 6608.5	< 1.46E-02	< 3.01E-05	< 3.22E-05	< 4211.0	< 9.38E-03	< 1.94E-05	< 1.94E-05

* Combination of TO-14 and Ozone Precursor methods.

\+ Tentatively identified Compound

++ Ozone Precursor

TRC

Table I.1-15
Extruder SBR Location A Speciated Volatiles

Compound	Run 1				Run 2				Run 3			
		Concentration µg/m³		Emission Rate lbs/hr		Concentration µg/m³		Emission Rate lbs/hr		Concentration µg/m³		Emission Rate lbs/hr
Dichlorodifluoromethane		4.9		1.21E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
Chloromethane		8.1		2.01E-05		106.5		2.20E-04		1.0		2.35E-06
Vinyl Chloride	<	8.0	<	1.98E-05		6.1		1.26E-05	<	8.0	<	1.88E-05
1,3-Butadiene	<	16.0	<	3.96E-05		3.4		7.01E-06	<	16.0	<	3.76E-05
Chloroethane	<	8.0	<	1.98E-05		21.0		4.33E-05	<	8.0	<	1.88E-05
Bromomethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
Acetonitrile	<	16.0	<	3.96E-05	<	16.0	<	3.30E-05	<	16.0	<	3.76E-05
Acrolein	<	16.0	<	3.96E-05		40.0		8.25E-05	<	16.0	<	3.76E-05
Acetone		42.0		1.04E-04		142.0		2.93E-04		92.0		2.16E-04
Propylene Oxide	<	16.0	<	3.96E-05		280.0		5.78E-04	<	16.0	<	3.76E-05
Trichlorofluoromethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
Acrylonitrile	<	16.0	<	3.96E-05	<	16.0	<	3.30E-05	<	16.0	<	3.76E-05
1,1-Dichloroethene	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
Methylene Chloride		14.0		3.47E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
Allyl Chloride	<	16.0	<	3.96E-05	<	16.0	<	3.30E-05	<	16.0	<	3.76E-05
Carbon Disulfide		7.4		1.83E-05		30.0		6.19E-05		6.3		1.48E-05
Trichlortrifluoroethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
trans-1,2-Dichloroethene	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05		11.0		2.59E-05
cis-1,2-Dichloroethene	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05		880.0		2.07E-03
1,1-Dichloroethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
t-Butyl Methyl Ether	<	16.0	<	3.96E-05	<	16.0	<	3.30E-05	<	16.0	<	3.76E-05
Vinyl Acetate	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
2-Butanone		6.6		1.64E-05		18.8		3.88E-05	<	16.0	<	3.76E-05
n-Hexane		11.0		2.73E-05	<	8.0	<	1.65E-05		1495.2		3.52E-03
Chloroform	<	8.0	<	1.98E-05		10.0		2.06E-05	<	8.0	<	1.88E-05
1,2-Dichloroethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
1,1,1-Trichloroethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05		7.7		1.81E-05
Benzene		4.8		1.19E-05		0.8		1.65E-06		62.6		1.47E-04
Carbon Tetrachloride	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
1,2-Dichloropropane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
Bromodichloromethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
1,4-Dioxane	<	32.0	<	7.93E-05	<	32.0	<	6.60E-05	<	32.0	<	7.53E-05
Trichloroethene	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05		190.0		4.47E-04
Epichlorohydrin	<	16.0	<	3.96E-05	<	16.0	<	3.30E-05	<	16.0	<	3.76E-05
cis-1,3-Dichloropropene	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
4-Methyl-2-Pentanone		84.0		2.08E-04		64.0		1.32E-04		66.0		1.55E-04
trans-1,2-Dichloropropene	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
1,1,2-Trichloroethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
Toluene		48.0		1.19E-04	<	8.0	<	1.65E-05		95.0		2.23E-04
Chlorodibromomethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
2-Hexanone	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
1,2-Dibromoethane	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05	<	8.0	<	1.88E-05
Tetrachloroethene	<	8.0	<	1.98E-05	<	8.0	<	1.65E-05		92.0		2.16E-04

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-15
Extruder SBR Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Chlorobenzene	< 8.0	< 1.98E-05	< 8.0	< 1.65E-05	< 8.0	< 1.88E-05
Ethylbenzene	< 8.0	< 1.98E-05	7.2	1.49E-05	200.0	4.71E-04
Bromoform	< 8.0	< 1.98E-05	< 8.0	< 1.65E-05	< 8.0	< 1.88E-05
Styrene	2.7	6.69E-06	2.7	5.57E-06	14.0	3.29E-05
m & p-Xylenes	8.8	2.18E-05	8.1	1.67E-05	294.1	6.92E-04
o-Xylene	< 8.0	< 1.98E-05	8.6	1.77E-05	270.0	6.35E-04
1,1,2,2-Tetrachloroethane	< 8.0	< 1.98E-05	< 8.0	< 1.65E-05	< 8.0	< 1.88E-05
Cumene	< 16.0	< 3.96E-05	< 16.0	< 3.30E-05	4.0	9.41E-06
Benzyl Chloride	< 16.0	< 3.96E-05	< 16.0	< 3.30E-05	< 16.0	< 3.76E-05
1,3-Dichlorobenzene	< 8.0	< 1.98E-05	< 8.0	< 1.65E-05	< 8.0	< 1.88E-05
1,4-Dichlorobenzene	< 8.0	< 1.98E-05	< 8.0	< 1.65E-05	< 8.0	< 1.88E-05
1,2-Dichlorobenzene	< 8.0	< 1.98E-05	< 8.0	< 1.65E-05	< 8.0	< 1.88E-05
1,2-Dibromo-3-Chloropropane	< 16.0	< 3.96E-05	< 16.0	< 3.30E-05	< 16.0	< 3.76E-05
Hexachlorobutadiene	< 16.0	< 3.96E-05	< 16.0	< 3.30E-05	< 16.0	< 3.76E-05
+ C10H18 Cyclic Hydrocarbon	30.0	7.43E-05	50.0	1.03E-04	30.0	7.06E-05
+ Propene			200.0	4.13E-04		
+ Cyclobutane			100.0	2.06E-04		
+ Butane			30.0	6.19E-05		
+ Cyclopentane			50.0	1.03E-04		
+ Butanol			30.0	6.19E-05		
+ Methylpentane					50.0	1.18E-04
++ Ethylene	< 5.3	< 1.32E-05	< 26.3	< 5.42E-05	< 0.6	< 1.37E-06
++ Acetylene	< 7.0	< 1.74E-05	< 16.2	< 3.35E-05	< 0.5	< 1.27E-06
++ Ethane	< 11.3	< 2.79E-05	< 11.3	< 2.32E-05	< 0.6	< 1.47E-06
++ Propylene	< 0.4	< 9.64E-07	< 28.6	< 5.90E-05	< 0.4	< 9.15E-07
++ Propane	< 13.5	< 3.33E-05	< 9.2	< 1.89E-05	< 0.4	< 9.59E-07
++ Methylacetylene	< 0.4	< 8.95E-07	< 4.6	< 9.50E-06	< 0.4	< 8.49E-07
++ Isobutane	< 5.0	< 1.23E-05	< 0.3	< 6.23E-07	< 0.3	< 7.11E-07
++ Isobutylene + 1-Butene	< 50.2	< 1.24E-04	< 1.2	< 2.48E-06	< 1.2	< 2.82E-06
++ n-Butane	< 23.6	< 5.84E-05	< 10.9	< 2.24E-05	< 0.3	< 7.11E-07
++ trans-2-Butene	< 0.3	< 7.23E-07	< 0.3	< 6.02E-07	< 0.3	< 6.86E-07
++ 2,2-Dimethylpropane	< 0.2	< 5.95E-07	< 0.2	< 4.95E-07	< 0.2	< 5.65E-07
++ Ethylacetylene	< 0.3	< 6.97E-07	< 1.5	< 3.02E-06	< 0.3	< 6.62E-07
++ cis-2-Butene	< 0.3	< 7.23E-07	< 1.6	< 3.25E-06	< 0.3	< 6.86E-07
++ Isopentane	< 144.1	< 3.57E-04	< 42.6	< 8.79E-05	< 36.6	< 8.61E-05
++ 1-Pentene	< 0.2	< 5.78E-07	< 3.4	< 7.10E-06	< 0.2	< 5.49E-07
++ 2-Methyl-1-butene	< 0.2	< 5.78E-07	< 2.0	< 4.09E-06	< 0.2	< 5.49E-07
++ n-Pentane	< 27.0	< 6.69E-05	< 3.2	< 6.56E-06	< 0.2	< 5.65E-07
++ Isoprene	< 0.2	< 5.62E-07	< 0.9	< 1.75E-06	< 1.8	< 4.13E-06
++ trans-2-Pentene	< 0.2	< 5.78E-07	< 0.2	< 4.81E-07	< 0.2	< 5.49E-07
++ cis-2-Pentene	< 9.3	< 2.31E-05	< 0.2	< 4.81E-07	< 1.2	< 2.82E-06
++ 2-Methyl-2-butene	< 0.2	< 5.78E-07	< 5.3	< 1.10E-05	< 0.2	< 5.49E-07
++ 2,2-Dimethylbutane	< 0.2	< 4.93E-07	< 2.2	< 4.56E-06	< 0.2	< 4.69E-07
++ Cyclopentene	< 0.2	< 5.62E-07	< 0.2	< 4.68E-07	< 0.2	< 5.33E-07

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-15
Extruder SBR Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
++ 4-Methyl-1-pentene	< 0.2	< 4.82E-07	< 0.2	< 4.01E-07	< 0.2	< 4.58E-07
++ Cyclopentane + 2,3-Dimethylbutane	< 9.1	< 2.26E-05	< 0.3	< 5.37E-07	< 0.3	< 6.12E-07
++ 2-Methylpentane	< 9.6	< 2.37E-05	< 2.1	< 4.31E-06	< 1.3	< 2.95E-06
++ 3-Methylpentane	< 10.2	< 2.52E-05	< 0.2	< 4.11E-07	< 8.4	< 1.97E-05
++ 1-Hexene	< 0.2	< 4.82E-07	< 2.9	< 5.90E-06	< 105.0	< 2.47E-04
++ trans-2-Hexene	< 0.2	< 4.82E-07	< 0.2	< 4.01E-07	< 0.2	< 4.58E-07
++ 2-Methyl-2-pentene	< 0.2	< 4.82E-07	< 0.2	< 4.01E-07	< 0.2	< 4.58E-07
++ cis-2-Hexene	< 0.2	< 4.82E-07	< 4.0	< 8.30E-06	< 0.2	< 4.58E-07
++ Methylcyclopentane	< 12.8	< 3.18E-05	< 0.2	< 4.01E-07	< 34.1	< 8.03E-05
++ Cyclohexane	< 0.2	< 4.82E-07	< 0.2	< 4.01E-07	< 0.2	< 4.58E-07
++ 2-Methylhexane	< 0.2	< 4.22E-07	< 0.2	< 3.51E-07	< 0.2	< 4.00E-07
++ 2,3-Dimethylpentane	< 0.2	< 4.22E-07	< 0.2	< 3.51E-07	< 0.2	< 4.00E-07
++ 3-Methylhexane	< 3.2	< 7.82E-06	< 0.2	< 3.51E-07	< 0.2	< 4.00E-07
++ 1-Heptene	< 0.2	< 4.13E-07	< 0.2	< 3.44E-07	< 25.7	< 6.04E-05
++ Isooctane	< 7.1	< 1.77E-05	< 0.1	< 3.06E-07	< 0.1	< 3.49E-07
++ n-Heptane	< 4.2	< 1.03E-05	< 0.2	< 3.51E-07	< 0.2	< 4.00E-07
++ Methylcyclohexane	< 7.6	< 1.88E-05	< 0.2	< 3.44E-07	< 0.2	< 3.92E-07
++ 2,4-Dimethylhexane	< 0.1	< 3.68E-07	< 0.1	< 3.06E-07	< 0.1	< 3.49E-07
++ 2,3,4-Trimethylpentane	< 0.1	< 3.68E-07	< 0.1	< 3.06E-07	< 0.1	< 3.49E-07
++ 2-Methylheptane	< 0.1	< 3.68E-07	< 0.1	< 3.06E-07	< 0.1	< 3.49E-07
++ 1-Octene	< 0.1	< 3.61E-07	< 0.1	< 3.01E-07	< 0.1	< 3.43E-07
++ n-Octane	< 2.4	< 5.89E-06	< 0.1	< 3.06E-07	< 0.1	< 3.49E-07
++ n-Nonane	< 0.1	< 3.26E-07	< 0.1	< 2.72E-07	< 0.1	< 3.10E-07
++ a-Pinene	< 0.1	< 2.81E-07	< 0.1	< 2.34E-07	< 0.1	< 2.67E-07
++ n-Propylbenzene	< 0.1	< 3.06E-07	< 0.1	< 2.55E-07	< 0.1	< 2.90E-07
++ m-Ethyltoluene	< 6.7	< 1.65E-05	< 2.9	< 6.07E-06	< 0.1	< 2.90E-07
++ p-Ethyltoluene	< 0.1	< 3.06E-07	< 4.1	< 8.37E-06	< 0.1	< 2.90E-07
++ 1,3,5-Trimethylbenzene	< 0.6	< 1.53E-06	< 5.0	< 1.03E-05	< 24.4	< 5.75E-05
++ o-Ethyltoluene	< 0.6	< 1.53E-06	< 0.6	< 1.27E-06	< 0.6	< 1.45E-06
++ b-Pinene	< 30.0	< 7.44E-05	< 53.3	< 1.10E-04	< 0.6	< 1.33E-06
++ 1,2,4-Trimethylbenzene	< 22.2	< 5.51E-05	< 39.4	< 8.14E-05	< 24.5	< 5.76E-05
++ n-Decane	< 9.5	< 2.35E-05	< 0.6	< 1.22E-06	< 0.6	< 1.39E-06
++ p-Cymene	< 12.8	< 3.18E-05	< 0.6	< 1.15E-06	< 0.6	< 1.31E-06
++ d-Limonene	< 0.6	< 1.40E-06	< 0.6	< 1.17E-06	< 0.6	< 1.33E-06
++ 1,4-Diethylbenzene + n-Butylbenzene	< 0.6	< 1.38E-06	< 0.6	< 1.15E-06	< 0.6	< 1.31E-06
Total Detected	272.3	6.75E-04	1209.2	2.49E-03	3860.9	9.08E-03
Total with non-detects	< 1204.3	< 2.98E-03	< 1925.8	< 3.97E-03	< 4578.3	< 1.08E-02

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-16
Extruder SBR Location B Speciated Volatiles

Compound	Run 1				Run 2				Run 3			
	Concentration µg/m³		Emission Rate lbs/hr		Concentration µg/m³		Emission Rate lbs/hr		Concentration µg/m³		Emission Rate lbs/hr	
Dichlorodifluoromethane		5.2		1.16E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Chloromethane		3.5		7.83E-06		0.2		3.88E-07	<	8.0	<	1.49E-05
Vinyl Chloride	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Chloroethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Bromomethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Acetonitrile	<	16.0	<	3.58E-05	<	16.0	<	3.10E-05	<	16.0	<	2.98E-05
Acrolein	<	16.0	<	3.58E-05	<	16.0	<	3.10E-05	<	16.0	<	2.98E-05
Acetone		50.0		1.12E-04		37.0		7.18E-05		47.0		8.75E-05
Propylene Oxide	<	16.0	<	3.58E-05	<	16.0	<	3.10E-05	<	16.0	<	2.98E-05
Trichlorofluoromethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Acrylonitrile	<	16.0	<	3.58E-05	<	16.0	<	3.10E-05	<	16.0	<	2.98E-05
1,1-Dichloroethene	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Methylene Chloride		14.0		3.13E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Allyl Chloride	<	16.0	<	3.58E-05	<	16.0	<	3.10E-05	<	16.0	<	2.98E-05
Carbon Disulfide		12.0		2.68E-05		21.0		4.07E-05		8.0		1.49E-05
Trichlortrifluoroethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
trans-1,2-Dichloroethene	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
cis-1,2-Dichloroethene	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
1,1-Dichloroethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
t-Butyl Methyl Ether	<	16.0	<	3.58E-05	<	16.0	<	3.10E-05	<	16.0	<	2.98E-05
Vinyl Acetate	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
2-Butanone		9.3		2.08E-05		4.5		8.73E-06		10.8		2.01E-05
Chloroform	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
1,2-Dichloroethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
1,1,1-Trichloroethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Benzene		5.5		1.23E-05		0.5		9.70E-07		0.8		1.49E-06
Carbon Tetrachloride	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
1,2-Dichloropropane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Bromodichloromethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
1,4-Dioxane	<	32.0	<	7.16E-05	<	32.0	<	6.21E-05	<	32.0	<	5.96E-05
Trichloroethene	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Epichlorohydrin	<	16.0	<	3.58E-05	<	16.0	<	3.10E-05	<	16.0	<	2.98E-05
cis-1,3-Dichloropropene	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
4-Methyl-2-Pentanone		300.0		6.71E-04		305.0		5.92E-04		405.0		7.54E-04
trans-1,2-Dichloropropene	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
1,1,2-Trichloroethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Chlorodibromomethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
2-Hexanone	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
1,2-Dibromoethane	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05
Tetrachloroethene	<	8.0	<	1.79E-05	<	8.0	<	1.55E-05	<	8.0	<	1.49E-05

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-16
Extruder SBR Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Chlorobenzene	< 8.0	< 1.79E-05	< 8.0	< 1.55E-05	< 8.0	< 1.49E-05
Bromoform	< 8.0	< 1.79E-05	< 8.0	< 1.55E-05	< 8.0	< 1.49E-05
1,1,2,2-Tetrachloroethane	< 8.0	< 1.79E-05	< 8.0	< 1.55E-05	< 8.0	< 1.49E-05
Benzyl Chloride	< 16.0	< 3.58E-05	< 16.0	< 3.10E-05	< 16.0	< 2.98E-05
1,3-Dichlorobenzene	< 8.0	< 1.79E-05	< 8.0	< 1.55E-05	< 8.0	< 1.49E-05
1,4-Dichlorobenzene	< 8.0	< 1.79E-05	< 8.0	< 1.55E-05	< 8.0	< 1.49E-05
1,2-Dichlorobenzene	< 8.0	< 1.79E-05	< 8.0	< 1.55E-05	< 8.0	< 1.49E-05
1,2-Dibromo-3-Chloropropane	< 16.0	< 3.58E-05	< 16.0	< 3.10E-05	< 16.0	< 2.98E-05
Hexachlorobutadiene	< 16.0	< 3.58E-05	< 16.0	< 3.10E-05	< 16.0	< 2.98E-05
+ C9H12 Alkyl Substituted Benzene	60.0	1.34E-04	30.0	5.82E-05		
+ C10H18 Cyclic Hydrocarbon	180.0	4.03E-04	290.0	5.63E-04	100.0	1.86E-04
+ Undecane	40.0	8.95E-05	40.0	7.76E-05	60.0	1.12E-04
+ bis-Methylethylbenzene	40.0	8.95E-05				
+ Dodecane	40.0	8.95E-05	70.0	1.36E-04	90.0	1.68E-04
+ Cyclobutane			30.0	5.82E-05	40.0	7.45E-05
+ C9H10 Alkyl Substituted Benzene			30.0	5.82E-05		
+ C13H18 Alkyl Substituted Benzene			40.0	7.76E-05	50.0	9.31E-05
+ Ethylhexanal					660.0	1.23E-03
+ C11 + C12 Alkenes					60.0	1.12E-04
++ Ethylene	2.2	4.96E-06	< 0.6	< 1.13E-06	< 0.6	< 1.09E-06
++ Acetylene	2.5	5.69E-06	< 0.5	< 1.05E-06	< 0.5	< 1.01E-06
++ Ethane	< 0.6	< 1.40E-06	< 0.6	< 1.21E-06	< 0.6	< 1.16E-06
++ Propylene	< 0.4	< 8.70E-07	< 0.4	< 7.55E-07	< 0.4	< 7.24E-07
++ Propane	7.3	1.64E-05	< 0.4	< 7.91E-07	< 0.4	< 7.59E-07
++ Methylacetylene	< 0.4	< 8.07E-07	< 0.4	< 7.01E-07	< 0.4	< 6.72E-07
++ Isobutane	3.6	7.98E-06	< 0.3	< 5.86E-07	< 0.3	< 5.63E-07
++ Isobutylene + 1-Butene	9.3	2.09E-05	< 1.2	< 2.33E-06	< 1.2	< 2.23E-06
++ 1,3-Butadiene	11.3	2.52E-05	8.4	1.64E-05	< 0.3	< 5.24E-07
++ n-Butane	8.5	1.89E-05	5.4	1.06E-05	< 0.3	< 5.63E-07
++ trans-2-Butene	< 0.3	< 6.52E-07	< 0.3	< 5.66E-07	< 0.3	< 5.43E-07
++ 2,2-Dimethylpropane	< 0.2	< 5.37E-07	< 0.2	< 4.66E-07	< 0.2	< 4.47E-07
++ Ethylacetylene	< 0.3	< 6.29E-07	< 0.3	< 5.46E-07	< 0.3	< 5.24E-07
++ cis-2-Butene	< 0.3	< 6.52E-07	< 0.3	< 5.66E-07	< 0.3	< 5.43E-07
++ Isopentane	78.0	1.75E-04	22.2	4.31E-05	16.8	3.13E-05
++ 1-Pentene	< 0.2	< 5.22E-07	< 0.2	< 4.53E-07	< 0.2	< 4.35E-07
++ 2-Methyl-1-butene	< 0.2	< 5.22E-07	< 0.2	< 4.53E-07	< 0.2	< 4.35E-07
++ n-Pentane	4.2	9.40E-06	2.3	4.43E-06	1.7	3.13E-06
++ Isoprene	3.1	6.97E-06	0.7	1.32E-06	1.9	3.48E-06
++ trans-2-Pentene	< 0.2	< 5.22E-07	< 0.2	< 4.53E-07	< 0.2	< 4.35E-07
++ cis-2-Pentene	< 0.2	< 5.22E-07	< 1.2	< 2.33E-06	< 1.2	< 2.23E-06

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-16
Extruder SBR Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
2-Methyl-2-butene	< 0.2	< 5.22E-07	< 0.2	< 4.53E-07	< 0.2	< 4.35E-07
++ 2,2-Dimethylbutane	< 0.2	< 4.45E-07	< 0.2	< 3.86E-07	< 0.2	< 3.71E-07
++ Cyclopentene	< 0.2	< 5.07E-07	< 0.2	< 4.40E-07	1.7	3.17E-06
++ 4-Methyl-1-pentene	< 0.2	< 4.35E-07	< 0.2	< 3.77E-07	< 0.2	< 3.62E-07
++ Cyclopentane + 2,3-Dimethylbutane	5.9	1.32E-05	< 0.3	< 5.05E-07	< 0.3	< 4.84E-07
++ 2-Methylpentane	7.8	1.74E-05	2.9	5.56E-06	3.9	7.23E-06
++ 3-Methylpentane	5.6	1.26E-05	< 0.2	< 3.86E-07	2.7	5.01E-06
++ 1-Hexene	< 0.2	< 4.35E-07	< 0.2	< 3.77E-07	< 0.2	< 3.62E-07
++ n-Hexane	29.3	6.55E-05	< 1.2	< 2.33E-06	0.6	1.11E-06
++ trans-2-Hexene	< 0.2	< 4.35E-07	< 0.2	< 3.77E-07	< 0.2	< 3.62E-07
++ 2-Methyl-2-pentene	< 0.2	< 4.35E-07	< 0.2	< 3.77E-07	< 0.2	< 3.62E-07
++ cis-2-Hexene	< 0.2	< 4.35E-07	< 0.2	< 3.77E-07	< 0.2	< 3.62E-07
++ Methylcyclopentane	7.6	1.70E-05	< 1.2	< 2.33E-06	< 1.2	< 2.23E-06
++ Cyclohexane	< 0.2	< 4.35E-07	< 0.2	< 3.77E-07	< 0.2	< 3.62E-07
++ 2-Methylhexane	< 0.2	< 3.80E-07	< 0.2	< 3.30E-07	< 0.2	< 3.17E-07
++ 2,3-Dimethylpentane	< 0.2	< 3.80E-07	< 0.2	< 3.30E-07	< 0.2	< 3.17E-07
++ 3-Methylhexane	< 0.2	< 3.80E-07	< 0.2	< 3.30E-07	< 0.2	< 3.17E-07
++ 1-Heptene	< 0.2	< 3.73E-07	< 0.2	< 3.23E-07	< 0.2	< 3.10E-07
++ Isooctane	2.7	5.98E-06	< 0.1	< 2.88E-07	< 0.1	< 2.76E-07
++ n-Heptane	5.3	1.19E-05	< 0.2	< 3.30E-07	< 0.2	< 3.17E-07
++ Methylcyclohexane	< 0.2	< 3.73E-07	< 0.2	< 3.23E-07	< 0.2	< 3.10E-07
++ 2,4-Dimethylhexane	< 0.1	< 3.32E-07	< 0.1	< 2.88E-07	< 0.1	< 2.76E-07
++ 2,3,4-Trimethylpentane	< 0.1	< 3.32E-07	< 0.1	< 2.88E-07	< 0.1	< 2.76E-07
++ Toluene	87.6	1.96E-04	< 1.1	< 2.13E-06	< 1.1	< 2.05E-06
++ 2-Methylheptane	< 0.1	< 3.32E-07	< 0.1	< 2.88E-07	< 0.1	< 2.76E-07
++ 1-Octene	< 0.1	< 3.26E-07	< 0.1	< 2.83E-07	< 0.1	< 2.72E-07
++ n-Octane	< 0.1	< 3.32E-07	1.2	2.31E-06	< 0.1	< 2.76E-07
++ Ethylbenzene	3.5	7.90E-06	2.3	4.39E-06	3.5	6.47E-06
++ m-Xylene + p-Xylene	10.5	2.35E-05	2.2	4.28E-06	5.0	9.25E-06
++ Styrene	1.9	4.36E-06	1.9	3.78E-06	3.2	5.95E-06
++ o-Xylene	7.7	1.73E-05	1.6	3.11E-06	4.3	8.02E-06
++ n-Nonane	< 0.1	< 2.95E-07	< 0.1	< 2.56E-07	< 0.1	< 2.45E-07
++ Cumene	1.7	3.73E-06	1.6	3.13E-06	3.4	6.41E-06
++ a-Pinene	2.0	4.44E-06	< 1.1	< 2.13E-06	3.7	6.86E-06
++ n-Propylbenzene	< 0.1	< 2.76E-07	1.3	2.59E-06	2.0	3.72E-06
++ m-Ethyltoluene	6.1	1.37E-05	6.7	1.29E-05	10.0	1.86E-05
++ p-Ethyltoluene	10.0	2.24E-05	11.7	2.26E-05	12.2	2.28E-05
++ 1,3,5-Trimethylbenzene	12.2	2.73E-05	13.9	2.69E-05	17.2	3.21E-05
++ o-Ethyltoluene	5.6	1.24E-05	8.3	1.62E-05	8.3	1.55E-05
++ b-Pinene	< 0.6	< 1.27E-06	< 0.6	< 1.10E-06	< 0.6	< 1.06E-06
++ 1,2,4-Trimethylbenzene	100.0	2.24E-04	< 0.6	< 1.20E-06	144.4	2.69E-04
++ n-Decane	< 0.6	< 1.32E-06	< 0.6	< 1.15E-06	< 0.6	< 1.10E-06
++ p-Cymene	6.7	1.50E-05	6.1	1.19E-05	21.8	4.05E-05
++ d-Limonene	< 0.6	< 1.27E-06	< 0.6	< 1.10E-06	6.8	1.27E-05
++ 1,4-Diethylbenzene + n-Butylbenzene	< 0.6	< 1.25E-06	< 0.6	< 1.08E-06	< 0.6	< 1.04E-06
Total Detected	1209.2	2.70E-03	999.0	1.94E-03	1806.7	3.36E-03
Total with non-detects	< 1650.6	< 3.69E-03	< 1466.1	< 2.84E-03	< 2278.6	< 4.24E-03

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-17

Extruder Sidewall Locations A and B Speciated Volatiles

Compound	CAS #	Run 1				Run 2				Run 3				Average			
		Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
Dichlorodifluoromethane	75-71-8	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Chloromethane	74-87-3	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 6.7	< 2.00E-05	< 6.80E-08	< 4.11E-08	2.6	5.44E-06	1.99E-08	1.12E-08	< 9.1	< 1.96E-05	< 7.063E-08	< 4.024E-08
Vinyl Chloride	75-01-4	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Chloroethane	75-00-3	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Bromomethane	74-83-9	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Acetonitrile	1722-09-4	< 32.0	< 6.69E-05	< 2.48E-07	< 1.37E-07	16.0	6.72E-05	2.28E-07	1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 26.7	< 6.64E-05	< 2.383E-07	< 1.362E-07
Acrolein	107-02-8	57.0	1.43E-04	5.32E-07	2.94E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 40.3	< 9.19E-05	< 3.330E-07	< 1.885E-07
Acetone	67-64-1	37.0	7.04E-05	2.61E-07	1.44E-07	58.0	1.15E-04	3.92E-07	2.36E-07	45.0	9.10E-05	3.33E-07	1.87E-07	48.0	9.22E-05	3.267E-07	1.891E-07
Propylene Oxide	75-56-9	< 32.0	< 6.69E-05	< 2.48E-07	< 1.37E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 32.0	< 6.64E-05	< 2.383E-07	< 1.362E-07
Trichlorofluoromethane	75-69-4	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Acrylonitrile	107-13-1	< 32.0	< 6.69E-05	< 2.48E-07	< 1.37E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 32.0	< 6.64E-05	< 2.383E-07	< 1.362E-07
1,1-Dichloroethene	75-35-4	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Methylene Chloride	79-09-2	200.0	4.78E-04	1.77E-06	9.77E-07	180.0	3.64E-04	1.24E-06	7.46E-07	240.0	4.87E-04	1.79E-06	9.99E-07	206.7	4.42E-04	1.596E-06	9.073E-07
Allyl Chloride	107-05-1	< 32.0	< 6.69E-05	< 2.48E-07	< 1.37E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 32.0	< 6.64E-05	< 2.383E-07	< 1.362E-07
Carbon Disulfide	75-15-0	7.8	3.25E-05	1.21E-07	6.66E-08	9.0	3.59E-05	1.22E-07	7.37E-08	11.2	2.28E-05	8.36E-08	4.68E-08	9.3	3.04E-05	1.088E-07	6.238E-08
Trichlorotrifluoroethane	76-13-1	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
trans-1,2-Dichloroethene	156-60-5	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
cis-1,2-Dichloroethene	156-59-2	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
1,1-Dichloroethane	75-34-3	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
t-Butyl Methyl Ether	1634-04-4	< 32.0	< 6.69E-05	< 2.48E-07	< 1.37E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 32.0	< 6.64E-05	< 2.383E-07	< 1.362E-07
Vinyl Acetate	108-05-4	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
2-Butanone	78-93-3	3.2	4.29E-06	1.59E-07	8.80E-09	14.2	2.80E-05	9.53E-08	5.75E-09	3.3	4.05E-05	1.48E-07	8.30E-09	6.9	3.71E-05	1.343E-07	7.618E-09
Chloroform	67-66-3	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
1,2-Dichloroethane	107-06-3	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
1,1,1-Trichloroethane	71-55-6	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	9.0	1.90E-05	6.46E-08	3.90E-08	6.8	1.79E-05	6.57E-08	3.68E-08	< 11.3	< 2.34E-05	< 8.473E-08	< 4.809E-08
Carbon Tetrachloride	56-23-5	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
1,2-Dichloropropane	78-87-5	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Bromodichloromethane	75-27-4	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
1,4-Dioxane	123-91-1	< 64.0	< 1.34E-04	< 4.96E-07	< 2.74E-07	< 64.0	< 1.34E-04	< 4.57E-07	< 2.76E-07	< 64.0	< 1.30E-04	< 4.77E-07	< 2.67E-07	< 64.0	< 1.33E-04	< 4.766E-07	< 2.723E-07
Trichloroethene	79-01-6	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Epichlorohydrin	106-89-8	< 32.0	< 6.69E-05	< 2.48E-07	< 1.37E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 32.0	< 6.64E-05	< 2.383E-07	< 1.362E-07
cis-1,3-Dichloropropene	1006-01-5	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
4-Methyl-2-Pentanone	108-10-1	870.0	1.30E-03	4.83E-06	2.67E-06	760.0	1.46E-03	4.98E-06	3.00E-06	945.0	1.66E-03	6.01E-06	3.01E-06	791.7	1.54E-03	5.538E-06	3.162E-06
trans-1,2-Dichloropropene	1006-02-6	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
1,1,2-Trichloroethane	79-00-5	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Chlorodibromomethane	124-48-1	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
2-Hexanone	591-78-6	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
1,2-Dibromoethane	106-93-4	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-09	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-09
Tetrachloroethene	127-18-4	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-09	3.6	2.33E-05	7.92E-08	4.78E-08	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-09	< 11.9	< 2.98E-05	< 1.075E-07	< 6.105E-08

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table 1.1-17

Extruder Sidewall Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Chlorobenzene	108-90-7	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-08	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-08	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-08	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-08
Bromoform	75-25-2	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-08	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-08	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-08	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-08
1,1,2,2-Tetrachloroethane	79-34-5	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-08	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-08	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-08	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-08
Benzyl Chloride	100-44-7	< 32.0	< 6.68E-05	< 2.48E-07	< 1.37E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 32.0	< 6.64E-05	< 2.383E-07	< 1.362E-07
1,3-Dichlorobenzene	541-34-6	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-08	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-08	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-08	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-08
1,4-Dichlorobenzene	106-73-1	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-08	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-08	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-08	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-08
1,2-Dichlorobenzene	95-50-1	< 16.0	< 3.34E-05	< 1.24E-07	< 6.85E-08	< 16.0	< 3.36E-05	< 1.14E-07	< 6.89E-08	< 16.0	< 3.26E-05	< 1.19E-07	< 6.68E-08	< 16.0	< 3.32E-05	< 1.192E-07	< 6.809E-08
1,2-Dibromo-3-Chloropropane	96-12-8	< 32.0	< 6.68E-05	< 2.48E-07	< 1.37E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 32.0	< 6.64E-05	< 2.383E-07	< 1.362E-07
Hexachlorobutadiene	87-68-3	< 32.0	< 6.68E-05	< 2.48E-07	< 1.37E-07	< 32.0	< 6.72E-05	< 2.28E-07	< 1.38E-07	< 32.0	< 6.52E-05	< 2.39E-07	< 1.34E-07	< 32.0	< 6.64E-05	< 2.383E-07	< 1.362E-07
+ Propane	00074-98-6	30.0	5.60E-05	2.08E-07	1.15E-07	60.0	1.26E-04	4.28E-07	2.58E-07	70.0	1.43E-04	5.26E-07	2.94E-07	53.3	1.06E-04	3.872E-07	2.225E-07
+ Isopropyl Alcohol	67-63-0	0.0	0.00E+00	0.00E+00	0.00E+00	20.0	4.68E-05	1.59E-07	9.59E-08	0.0	0.00E+00	0.00E+00	0.00E+00	6.7	1.56E-05	5.300E-08	3.198E-08
+ C10H14 Alkyl Substituted Benzene		0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	40.0	8.52E-05	3.12E-07	1.75E-07	13.3	2.84E-05	1.040E-07	5.823E-08
+ Cyclobutane	287-23-0	80.0	1.49E-04	5.54E-07	3.06E-07	0.0	0.00E+00	0.00E+00	0.00E+00	30.0	5.83E-05	2.14E-07	1.20E-07	36.7	6.92E-05	2.560E-07	1.420E-07
+ Isobutyl Alcohol		100.0	1.87E-04	6.93E-07	3.83E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	33.3	6.22E-05	2.310E-07	1.277E-07
+ Tetrahydrofuran	109-99-9	100.0	1.87E-04	6.93E-07	3.83E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	33.3	6.22E-05	2.310E-07	1.277E-07
+ Ethylhexanal		30.0	5.60E-05	2.08E-07	1.15E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	10.0	1.87E-05	6.929E-08	3.831E-08
+ C9H12 Alkyl Substituted Benzene		150.0	2.80E-04	1.04E-06	5.75E-07	180.0	3.35E-04	1.14E-06	6.87E-07	180.0	3.50E-04	1.28E-06	7.18E-07	170.0	3.22E-04	1.153E-06	6.597E-07
+ Ethylhexanol		300.0	5.60E-04	2.08E-06	1.15E-06	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	100.0	1.87E-04	6.929E-07	3.831E-07
+ Butane	106-97-8	0.0	0.00E+00	0.00E+00	0.00E+00	30.0	5.58E-05	1.90E-07	1.14E-07	0.0	0.00E+00	0.00E+00	0.00E+00	10.0	1.86E-05	6.323E-08	3.815E-08
++ Ethylene	00074-85-1	9.3	1.88E-05	6.97E-08	3.85E-08	< 1.2	< 2.45E-06	< 8.33E-09	< 5.03E-09	< 1.2	< 2.38E-06	< 8.71E-09	< 4.88E-09	< 3.9	< 7.87E-06	< 2.891E-08	< 1.614E-08
++ Acetylene	00074-86-2	14.6	2.86E-05	1.06E-07	5.86E-08	< 1.1	< 2.27E-06	< 7.73E-09	< 4.66E-09	< 1.1	< 2.21E-06	< 8.08E-09	< 4.52E-09	< 5.6	< 1.10E-05	< 4.059E-08	< 2.259E-08
++ Ethane	00074-84-0	< 1.3	< 2.61E-06	< 9.69E-09	< 5.36E-09	< 1.3	< 2.63E-06	< 8.93E-09	< 5.39E-09	< 1.3	< 2.55E-06	< 9.33E-09	< 5.23E-09	< 1.3	< 2.59E-06	< 9.315E-09	< 5.323E-09
++ Propylene	00115-07-1	32.1	6.08E-05	2.26E-07	1.25E-07	< 0.8	< 1.63E-06	< 5.55E-09	< 3.35E-09	< 0.8	< 1.58E-06	< 5.80E-09	< 3.25E-09	< 11.2	< 2.13E-05	< 7.902E-08	< 4.379E-08
++ Methylacetylene	00074-99-7	< 0.7	< 1.51E-06	< 5.59E-09	< 3.09E-09	< 0.7	< 1.52E-06	< 5.15E-09	< 3.11E-09	< 0.7	< 1.47E-06	< 5.39E-09	< 3.02E-09	< 0.7	< 1.50E-06	< 5.378E-09	< 3.073E-09
++ Isobutane	00075-28-5	7.9	1.54E-05	5.70E-08	3.15E-08	< 0.6	< 1.27E-06	< 4.31E-09	< 2.60E-09	< 0.6	< 1.23E-06	< 4.51E-09	< 2.53E-09	< 3.0	< 6.96E-06	< 2.195E-08	< 1.222E-08
++ Isobutylene + 1-Butene	00115-11-7, 00106-98-9	< 1.5	< 2.91E-06	< 1.08E-08	< 5.98E-09	< 1.5	< 2.91E-06	< 9.91E-09	< 5.98E-09	< 2.4	< 4.89E-06	< 1.79E-08	< 1.00E-08	< 1.8	< 3.57E-06	< 1.287E-08	< 7.327E-09
++ 1,3-Butadiene	00106-99-0	< 0.8	< 1.17E-06	< 4.36E-09	< 2.41E-09	27.6	5.75E-05	1.95E-07	1.18E-07	8.4	1.85E-05	6.78E-08	3.80E-08	< 12.2	< 2.57E-05	< 8.916E-08	< 5.275E-08
++ n-Butane	00106-97-8	33.8	6.39E-05	2.37E-07	1.31E-07	< 0.6	< 1.27E-06	< 4.31E-09	< 2.60E-09	< 0.6	< 1.23E-06	< 4.51E-09	< 2.53E-09	< 11.7	< 2.21E-05	< 8.198E-08	< 4.641E-08
++ trans-2-Butene	000624-64-6	< 0.6	< 1.22E-06	< 4.52E-09	< 2.50E-09	< 0.6	< 1.22E-06	< 4.16E-09	< 2.51E-09	< 0.6	< 1.19E-06	< 4.35E-09	< 2.44E-09	< 0.6	< 1.21E-06	< 4.345E-09	< 2.493E-09
++ 2,2-Dimethylpropane	00463-82-1	< 0.5	< 1.00E-06	< 3.72E-09	< 2.06E-09	< 0.5	< 1.01E-06	< 3.43E-09	< 2.07E-09	< 0.5	< 9.78E-07	< 3.58E-09	< 2.01E-09	< 0.5	< 9.96E-07	< 3.576E-09	< 2.043E-09
++ Ethylacetylene	00107-00-6	< 0.8	< 1.17E-06	< 4.36E-09	< 2.41E-09	< 0.6	< 1.18E-06	< 4.01E-09	< 2.42E-09	< 0.6	< 1.15E-06	< 4.20E-09	< 2.35E-09	< 0.6	< 1.17E-06	< 4.189E-09	< 2.394E-09
++ cis-2-Butene	00590-18-1	< 0.6	< 1.22E-06	< 4.52E-09	< 2.50E-09	< 0.6	< 1.22E-06	< 4.16E-09	< 2.51E-09	< 0.6	< 1.19E-06	< 4.35E-09	< 2.44E-09	< 0.6	< 1.21E-06	< 4.345E-09	< 2.493E-09
++ Isopentane	00078-78-4	108.8	2.06E-04	7.63E-07	4.22E-07	4.8	1.17E-05	3.99E-08	2.41E-08	1.8	3.81E-06	1.32E-08	7.41E-09	38.4	7.37E-05	2.721E-07	1.511E-07
++ 1-Pentene	00109-67-1	< 0.5	< 9.74E-07	< 3.62E-09	< 2.00E-09	< 0.5	< 9.80E-07	< 3.33E-09	< 2.01E-09	< 0.5	< 9.51E-07	< 3.48E-09	< 1.95E-09	< 0.5	< 9.68E-07	< 3.476E-09	< 1.986E-09
++ 2-Methyl-1-butene	00563-46-2	< 0.5	< 9.74E-07	< 3.62E-09	< 2.00E-09	< 0.5	< 9.80E-07	< 3.33E-09	< 2.01E-09	< 0.5	< 9.51E-07	< 3.48E-09	< 1.95E-09	< 0.5	< 9.68E-07	< 3.476E-09	< 1.986E-09
++ n-Pentane	00109-66-0	21.0	3.98E-05	1.48E-07	8.16E-08	< 0.5	< 1.01E-06	< 3.43E-09	< 2.07E-09	< 0.5	< 9.78E-07	< 3.58E-09	< 2.01E-09	< 7.3	< 1.39E-05	< 5.155E-08	< 2.856E-08
++ Isoprene	00078-79-5	7.7	1.46E-05	5.50E-08	3.04E-08	0.5	1.11E-06	3.78E-09	2.28E-09	< 0.5	< 9.23E-07	< 3.38E-09	< 1.89E-09	< 2.9	< 5.62E-06	< 2.071E-08	< 1.152E-08
++ trans-2-Pentene	000646-04-8	< 0.5	< 9.74E-07	< 3.62E-09	< 2.00E-09	< 0.5	< 9.80E-07	< 3.33E-09	< 2.01E-09	< 0.5	< 9.51E-07	< 3.48E-09	< 1.95E-09	< 0.5	< 9.68E-07	< 3.476E-09	< 1.986E-09
++ cis-2-Pentene	000627-20-3	< 1.4	< 3.20E-06	< 1.19E-08	< 6.57E-09	< 2.4	< 5.04E-06	< 1.71E-08	< 1.03E-08	< 2.4	< 4.89E-06	< 1.79E-08	< 1.00E-08	< 2.1	< 4.38E-06	< 1.564E-08	< 8.979E-09
++ 2-Methyl-2-butene	00513-35-9	46.1	8.68E-05	3.21E-07	1.78E-07	< 0.5	< 9.80E-07	< 3.33E-09	< 2.01E-09	< 0.5	< 9.51E-07	< 3.48E-09	< 1.95E-09	< 15.7	< 2.95E-05	< 1.094E-07	< 6.054E-08
++ 2,2-Dimethylbutane	00075-83-2	< 0.4	< 8.31E-07	< 3.09E-09	< 1.71E-09	< 0.4	< 8.36E-07	< 2.84E-09	< 1.72E-09	< 0.4	< 8.11E-07	< 2.97E-09	< 1.66E-09	< 0.4	< 8.26E-07	< 2.968E-09	< 1.695E-09

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-17

Extruder Sidewall Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
++ Cyclopentane	00142-29-0	< 0.5	< 9.46E-07	< 3.61E-09	< 1.94E-09	< 0.5	< 9.52E-07	< 3.24E-09	< 1.95E-09	< 0.5	< 9.23E-07	< 3.38E-09	< 1.89E-09	< 0.5	< 9.40E-07	< 3.376E-09	< 1.929E-09
++ 4-Methyl-1-pentene	00691-37-2	7.0	1.35E-05	5.02E-08	2.77E-08	3.7	7.29E-06	2.48E-08	1.50E-08	3.4	7.11E-06	2.60E-08	1.46E-08	4.7	9.31E-06	3.367E-08	1.909E-08
++ Cyclopentane + 2,3-Dimethylbut	00287-92-3, 00079-29-8	17.6	3.34E-05	1.24E-07	6.85E-08	< 0.5	< 1.09E-06	< 3.71E-09	< 2.24E-09	< 0.5	< 1.06E-06	< 3.88E-09	< 2.17E-09	< 8.2	< 1.18E-05	< 4.382E-08	< 2.430E-08
++ *2-Methylpentane*	*00107-83-5*	*23.9*	*4.51E-05*	*1.67E-07*	*9.25E-08*	*1.3*	*3.44E-06*	*1.17E-08*	*7.07E-09*	*1.4*	*3.21E-06*	*1.16E-08*	*6.59E-09*	*8.9*	*1.72E-05*	*6.358E-08*	*3.538E-08*
++ 3-Methylpentane	00096-14-0	14.9	2.84E-05	1.05E-07	5.82E-08	1.6	4.00E-06	1.36E-08	8.21E-09	1.5	3.33E-06	1.22E-08	6.83E-09	6.0	1.19E-05	4.367E-08	2.440E-08
++ 1-Hexene	00592-41-6	< 0.4	< 8.12E-07	< 3.01E-09	< 1.67E-09	< 0.4	< 8.17E-07	< 2.78E-09	< 1.68E-09	< 0.4	< 7.92E-07	< 2.90E-09	< 1.63E-09	< 0.4	< 8.07E-07	< 2.897E-09	< 1.655E-09
++ n-Hexane	00110-54-3	35.2	6.88E-05	2.55E-07	1.41E-07	1.2	5.03E-06	1.71E-08	1.03E-08	3.8	9.52E-06	3.49E-08	1.96E-08	13.3	2.77E-05	1.022E-07	5.685E-08
++ trans-2-Hexene	04050-45-7	< 0.4	< 8.12E-07	< 3.01E-09	< 1.67E-09	< 0.4	< 8.17E-07	< 2.78E-09	< 1.68E-09	< 0.4	< 7.92E-07	< 2.90E-09	< 1.63E-09	< 0.4	< 8.07E-07	< 2.897E-09	< 1.655E-09
++ 2-Methyl-2-pentene	00625-27-4	< 0.4	< 8.12E-07	< 3.01E-09	< 1.67E-09	< 0.4	< 8.17E-07	< 2.78E-09	< 1.68E-09	< 0.4	< 7.92E-07	< 2.90E-09	< 1.63E-09	< 0.4	< 8.07E-07	< 2.897E-09	< 1.655E-09
++ cis-2-Hexene	07688-21-3	12.8	2.44E-05	9.06E-08	5.01E-08	< 0.4	< 8.17E-07	< 2.78E-09	< 1.68E-09	< 0.4	< 7.92E-07	< 2.90E-09	< 1.63E-09	< 4.5	< 8.68E-06	< 3.210E-08	< 1.780E-08
++ Methylcyclopentane	00096-37-7	15.5	3.16E-05	1.17E-07	6.49E-08	1.3	3.36E-06	1.14E-08	6.90E-09	< 1.4	< 2.75E-06	< 1.01E-08	< 5.64E-09	< 6.0	< 1.26E-05	< 4.630E-08	< 2.581E-08
++ Benzene	00071-43-2	14.8	2.81E-05	1.04E-07	5.77E-08	1.7	5.87E-06	2.03E-08	1.23E-08	< 1.3	< 2.52E-06	< 9.24E-09	< 5.18E-09	< 5.9	< 1.22E-05	< 4.484E-08	< 2.504E-08
++ *Cyclohexane*	*00110-82-7*	*2.0*	*4.15E-06*	*1.54E-09*	*8.52E-09*	< *0.4*	< *8.17E-07*	< *2.78E-09*	< *1.68E-09*	< *0.4*	< *7.92E-07*	< *2.90E-09*	< *1.63E-09*	< *0.9*	< *1.92E-06*	< *7.030E-09*	< *3.940E-09*
++ 2-Methylhexane	00591-76-4	8.6	1.26E-05	4.68E-08	2.59E-08	< 0.3	< 7.14E-07	< 2.43E-09	< 1.47E-09	< 0.3	< 6.93E-07	< 2.54E-09	< 1.42E-09	< 2.4	< 4.68E-06	< 1.727E-08	< 9.594E-09
++ 2,3-Dimethylpentane	00565-59-3	5.2	1.02E-05	3.78E-08	2.09E-08	< 0.3	< 7.14E-07	< 2.43E-09	< 1.47E-09	< 0.3	< 6.93E-07	< 2.54E-09	< 1.42E-09	< 2.0	< 3.86E-06	< 1.424E-08	< 7.921E-09
++ 3-Methylhexane	00589-34-4	8.9	1.71E-05	6.33E-08	3.50E-08	3.3	6.60E-06	2.24E-08	1.35E-08	2.3	4.78E-06	1.74E-08	9.77E-09	4.8	9.48E-06	3.441E-08	1.944E-08
++ 1-Heptane	00592-76-7	2.5	4.96E-06	1.84E-08	1.02E-08	< 0.3	< 7.00E-07	< 2.38E-09	< 1.44E-09	< 0.3	< 6.79E-07	< 2.49E-09	< 1.39E-09	< 1.0	< 2.11E-06	< 7.758E-09	< 4.335E-09
++ Isooctane	00540-84-1	16.2	3.06E-05	1.14E-07	6.28E-08	< 0.3	< 6.23E-07	< 2.12E-09	< 1.28E-09	< 0.3	< 6.05E-07	< 2.22E-09	< 1.24E-09	< 5.6	< 1.06E-05	< 3.932E-08	< 2.178E-08
++ n-Heptane	00142-82-5	6.8	1.26E-05	4.68E-08	2.59E-08	< 0.3	< 7.14E-07	< 2.43E-09	< 1.47E-09	< 0.3	< 6.93E-07	< 2.54E-09	< 1.42E-09	< 2.4	< 4.68E-06	< 1.727E-08	< 9.594E-09
++ Methylcyclohexane	00108-87-2	14.6	2.76E-05	1.03E-07	5.67E-08	< 0.3	< 7.00E-07	< 2.38E-09	< 1.44E-09	< 0.3	< 6.79E-07	< 2.49E-09	< 1.39E-09	< 5.1	< 9.67E-06	< 3.579E-08	< 1.983E-08
++ 2,4-Dimethylhexane	00589-43-5	1.8	3.67E-06	1.36E-08	7.53E-09	< 0.3	< 6.23E-07	< 2.12E-09	< 1.28E-09	< 0.3	< 6.05E-07	< 2.22E-09	< 1.24E-09	< 0.9	< 1.63E-06	< 5.984E-09	< 3.349E-09
++ 2,3,4-Trimethylpentane	00565-75-3	9.5	1.81E-05	6.71E-08	3.71E-08	< 0.3	< 6.23E-07	< 2.12E-09	< 1.28E-09	< 0.3	< 6.05E-07	< 2.22E-09	< 1.24E-09	< 3.4	< 6.44E-06	< 2.382E-08	< 1.321E-08
++ Toluene	00108-88-3	44.4	8.54E-05	3.17E-07	1.75E-07	< 2.2	< 4.62E-06	< 1.57E-08	< 9.47E-09	< 2.2	< 4.48E-06	< 1.64E-08	< 9.19E-09	< 16.3	< 3.15E-05	< 1.163E-07	< 6.459E-08
++ 2-Methylheptane	00592-27-8	8.3	1.59E-05	5.89E-08	3.26E-08	< 0.3	< 6.23E-07	< 2.12E-09	< 1.28E-09	< 0.3	< 6.05E-07	< 2.22E-09	< 1.24E-09	< 3.0	< 5.70E-06	< 2.107E-08	< 1.169E-08
++ 1-Octene	00111-66-0	15.2	2.87E-05	1.06E-07	5.88E-08	< 0.3	< 6.12E-07	< 2.08E-09	< 1.26E-09	< 0.3	< 5.94E-07	< 2.18E-09	< 1.22E-09	< 5.3	< 8.96E-06	< 3.687E-08	< 2.043E-08
++ n-Octane	00111-65-9	11.3	2.14E-05	7.95E-08	4.39E-08	< 0.3	< 6.23E-07	< 2.12E-09	< 1.28E-09	< 0.3	< 6.05E-07	< 2.22E-09	< 1.24E-09	< 4.0	< 7.55E-06	< 2.793E-08	< 1.548E-08
++ Ethylbenzene	00100-41-4	11.6	2.20E-05	8.15E-08	4.51E-08	1.8	4.52E-06	1.54E-08	9.27E-09	< 0.3	< 5.62E-07	< 2.06E-09	< 1.15E-09	< 4.6	< 9.02E-06	< 3.297E-08	< 1.849E-08
++ m-Xylene + p-Xylene	108-38-3, 00106-42-3	28.7	5.61E-05	2.08E-07	1.15E-07	0.6	3.60E-06	1.22E-08	7.38E-09	< 1.2	< 2.43E-06	< 8.91E-09	< 4.99E-09	< 10.2	< 2.07E-05	< 7.649E-08	< 4.251E-08
++ Styrene	00100-42-5	3.9	7.59E-06	2.62E-08	1.58E-08	< 0.3	< 5.68E-07	< 1.93E-09	< 1.17E-09	< 0.3	< 5.51E-07	< 2.02E-09	< 1.13E-09	< 1.5	< 2.90E-06	< 1.071E-08	< 5.958E-09
++ o-Xylene	00095-47-6	12.0	2.50E-05	9.28E-08	5.13E-08	3.2	8.53E-06	2.90E-08	1.75E-08	0.2	6.16E-07	2.26E-09	1.26E-09	5.1	1.14E-05	4.135E-08	2.335E-08
++ n-Nonane	00111-84-2	4.4	8.50E-06	3.15E-08	1.74E-08	< 0.3	< 5.53E-07	< 1.88E-09	< 1.13E-09	< 0.3	< 5.37E-07	< 1.97E-09	< 1.10E-09	< 1.6	< 3.20E-06	< 1.179E-08	< 6.554E-09
++ Cumene	00098-82-8	5.3	1.01E-05	3.76E-08	2.08E-08	< 0.2	< 5.18E-07	< 1.76E-09	< 1.06E-09	< 0.2	< 5.03E-07	< 1.84E-09	< 1.03E-09	< 1.9	< 3.72E-06	< 1.374E-08	< 7.632E-09
++ a-Pinene	07785-70-8	7.1	1.35E-05	5.01E-08	2.77E-08	< 0.2	< 4.76E-07	< 1.62E-09	< 9.76E-10	< 0.2	< 4.62E-07	< 1.69E-09	< 9.47E-10	< 2.5	< 4.81E-06	< 1.779E-08	< 9.865E-09
++ n-Propylbenzene	00103-65-1	7.2	1.38E-05	5.11E-08	2.82E-08	4.5	8.66E-06	2.94E-08	1.78E-08	4.4	8.90E-06	3.26E-08	1.83E-08	5.4	1.04E-05	3.771E-08	2.142E-08
++ m-Ethyltoluene	00620-14-4	26.1	4.90E-05	1.82E-07	1.01E-07	23.3	4.37E-05	1.49E-07	8.96E-08	17.8	3.48E-05	1.28E-07	7.14E-08	22.4	4.25E-05	1.527E-07	8.721E-08
++ p-Ethyltoluene	00622-96-8	15.0	2.83E-05	1.05E-07	5.80E-08	14.5	2.91E-05	9.90E-08	5.97E-08	8.9	1.75E-05	6.43E-08	3.60E-08	12.8	2.50E-05	8.942E-08	5.125E-08
++ 1,3,5-Trimethylbenzene	00108-67-8	32.2	6.38E-05	2.37E-07	1.31E-07	21.7	4.17E-05	1.42E-07	8.56E-08	15.0	3.05E-05	1.12E-07	6.25E-08	23.0	4.54E-05	1.635E-07	9.303E-08
++ o-Ethyltoluene	00611-14-3	11.7	2.32E-05	8.61E-08	4.76E-08	8.8	1.80E-05	6.11E-08	3.69E-08	6.1	1.32E-05	4.83E-08	2.71E-08	8.8	1.81E-05	6.519E-08	3.718E-08
++ b-Pinene	18172-67-3	7.4	1.61E-05	5.98E-08	3.09E-08	< 1.1	< 2.38E-06	< 8.09E-09	< 4.88E-09	6.8	1.56E-05	5.71E-08	3.20E-08	< 5.1	< 1.10E-05	< 4.035E-08	< 2.258E-08
++ 1,2,4-Trimethylbenzene	00095-63-6	56.7	1.09E-04	4.06E-07	2.25E-07	38.1	6.86E-05	2.33E-07	1.41E-07	26.7	5.32E-05	1.95E-07	1.09E-07	39.8	7.71E-05	2.781E-07	1.581E-07
++ n-Decane	00124-18-5	12.4	2.46E-05	9.12E-08	5.04E-08	< 1.2	< 2.49E-06	< 8.45E-09	< 5.10E-09	< 1.2	< 2.41E-06	< 8.83E-09	< 4.95E-09	< 4.8	< 9.82E-06	< 3.618E-08	< 2.015E-08
++ p-Cymene	00099-87-6	21.8	4.20E-05	1.56E-07	8.61E-08	8.4	1.69E-05	5.74E-08	3.46E-08	48.0	1.01E-04	3.69E-07	2.07E-07	26.1	5.32E-05	1.939E-07	1.091E-07
++ d-Limonene	059-27-6	< 1.1	< 2.37E-06	< 8.78E-09	< 4.85E-09	< 1.1	< 2.38E-06	< 8.09E-09	< 4.88E-09	< 1.1	< 2.31E-06	< 8.46E-09	< 4.73E-09	< 1.1	< 2.35E-06	< 8.441E-09	< 4.823E-09
++ 1,4-Diethylbenzene + n-Butylben	00105-05-5, 00104-51-8	10.6	2.11E-05	7.83E-08	4.33E-08	< 1.1	< 2.34E-06	< 7.97E-09	< 4.81E-09	< 1.1	< 2.27E-06	< 8.33E-09	< 4.66E-09	< 4.3	< 9.57E-06	< 3.163E-08	< 1.758E-08
Total Detected		2614.7	5.18E-03	1.92E-05	1.06E-05	1507.7	3.03E-03	1.03E-05	6.21E-06	1732.2	3.48E-03	1.28E-05	7.15E-06	1746.8	3.47E-03	1.25E-05	7.11E-06
Total with non-detects		< 3490.9	< 7.01E-03	< 2.60E-05	< 1.44E-05	< 2361.6	< 4.82E-03	< 1.64E-05	< 9.89E-06	< 2629.9	< 5.31E-03	< 1.95E-05	< 1.09E-05	< 2827.4	< 5.71E-03	< 2.06E-05	< 1.17E-05

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-18
Extruder Sidewall Location A Speciated Volatiles

Compound	Run 1		Run 2		Run 3	
	Concentration µg/m³	Emission Rate lbs/hr	Concentration µg/m³	Emission Rate lbs/hr	Concentration µg/m³	Emission Rate lbs/hr
Dichlorodifluoromethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Chloromethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	2.1	4.47E-06
Vinyl Chloride	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Chloroethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Bromomethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Acetonitrile	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
Acrolein	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
Acetone	3.0	6.92E-06	23.0	5.38E-05	19.0	4.05E-05
Propylene Oxide	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
Trichlorofluoromethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Acrylonitrile	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
1,1-Dichloroethene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Methylene Chloride	200.0	4.62E-04	60.0	1.40E-04	110.0	2.34E-04
Allyl Chloride	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
Carbon Disulfide	7.6	1.75E-05	9.0	2.10E-05	5.7	1.21E-05
Trichlortrifluoroethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
trans-1,2-Dichloroethene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
cis-1,2-Dichloroethene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,1-Dichloroethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
t-Butyl Methyl Ether	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
Vinyl Acetate	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
2-Butanone	< 16.0	< 3.69E-05	3.4	7.95E-06	< 16.0	< 3.41E-05
Chloroform	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,2-Dichloroethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,1,1-Trichloroethane	< 8.0	< 1.85E-05	4.7	1.10E-05	4.5	9.58E-06
Carbon Tetrachloride	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,2-Dichloropropane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Bromodichloromethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,4-Dioxane	< 32.0	< 7.38E-05	< 32.0	< 7.48E-05	< 32.0	< 6.81E-05
Trichloroethene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Epichlorohydrin	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
cis-1,3-Dichloropropene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
4-Methyl-2-Pentanone	115.0	2.65E-04	105.0	2.46E-04	115.0	2.45E-04
trans-1,2-Dichloropropene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,1,2-Trichloroethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Chlorodibromomethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
2-Hexanone	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,2-Dibromoethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Tetrachloroethene	< 8.0	< 1.85E-05	3.6	8.42E-06	< 8.0	< 1.70E-05

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-18
Extruder Sidewall Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Chlorobenzene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Bromoform	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,1,2,2-Tetrachloroethane	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
Benzyl Chloride	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
1,3-Dichlorobenzene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,4-Dichlorobenzene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,2-Dichlorobenzene	< 8.0	< 1.85E-05	< 8.0	< 1.87E-05	< 8.0	< 1.70E-05
1,2-Dibromo-3-Chloropropane	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
Hexachlorobutadiene	< 16.0	< 3.69E-05	< 16.0	< 3.74E-05	< 16.0	< 3.41E-05
+ Propane			30.0	7.02E-05	40.0	8.52E-05
+ Isopropyl Alcohol			20.0	4.68E-05		
+ C10H14 Alkyl Substituted Benzene					40.0	8.52E-05
++ Ethylene	< 0.6	< 1.35E-06	< 0.6	< 1.36E-06	< 0.6	< 1.24E-06
++ Acetylene	< 0.5	< 1.25E-06	< 0.5	< 1.27E-06	< 0.5	< 1.15E-06
++ Ethane	< 0.6	< 1.44E-06	< 0.6	< 1.46E-06	< 0.6	< 1.33E-06
++ Propylene	< 0.4	< 8.98E-07	< 0.4	< 9.10E-07	< 0.4	< 8.28E-07
++ Methylacetylene	< 0.4	< 8.33E-07	< 0.4	< 8.44E-07	< 0.4	< 7.69E-07
++ Isobutane	< 0.3	< 6.97E-07	< 0.3	< 7.07E-07	< 0.3	< 6.43E-07
++ Isobutylene + 1-Butene	< 0.3	< 6.73E-07	< 0.3	< 6.82E-07	< 1.2	< 2.55E-06
++ 1,3-Butadiene	< 0.3	< 6.49E-07	12.9	3.03E-05	8.4	1.80E-05
++ n-Butane	< 0.3	< 6.97E-07	< 0.3	< 7.07E-07	< 0.3	< 6.43E-07
++ trans-2-Butene	< 0.3	< 6.73E-07	< 0.3	< 6.82E-07	< 0.3	< 6.21E-07
++ 2,2-Dimethylpropane	< 0.2	< 5.54E-07	< 0.2	< 5.62E-07	< 0.2	< 5.11E-07
++ Ethylacetylene	< 0.3	< 6.49E-07	< 0.3	< 6.58E-07	< 0.3	< 5.99E-07
++ cis-2-Butene	< 0.3	< 6.73E-07	< 0.3	< 6.82E-07	< 0.3	< 6.21E-07
++ Isopentane	< 1.2	< 2.77E-06	< 1.2	< 2.81E-06	0.6	1.28E-06
++ 1-Pentene	< 0.2	< 5.39E-07	< 0.2	< 5.46E-07	< 0.2	< 4.97E-07
++ 2-Methyl-1-butene	< 0.2	< 5.39E-07	< 0.2	< 5.46E-07	< 0.2	< 4.97E-07
++ n-Pentane	< 0.2	< 5.54E-07	< 0.2	< 5.62E-07	< 0.2	< 5.11E-07
++ Isoprene	1.2	2.75E-06	0.3	7.95E-07	< 0.2	< 4.83E-07
++ trans-2-Pentene	< 0.2	< 5.39E-07	< 0.2	< 5.46E-07	< 0.2	< 4.97E-07
++ cis-2-Pentene	< 1.2	< 2.77E-06	< 1.2	< 2.81E-06	< 1.2	< 2.55E-06
++ 2-Methyl-2-butene	< 0.2	< 5.39E-07	< 0.2	< 5.46E-07	< 0.2	< 4.97E-07
++ 2,2-Dimethylbutane	< 0.2	< 4.60E-07	< 0.2	< 4.66E-07	< 0.2	< 4.24E-07
++ Cyclopentene	< 0.2	< 5.23E-07	< 0.2	< 5.30E-07	< 0.2	< 4.83E-07
++ 4-Methyl-1-pentene	< 0.2	< 4.49E-07	< 0.2	< 4.55E-07	< 0.2	< 4.14E-07
++ Cyclopentane + 2,3-Dimethylbutane	< 0.3	< 6.00E-07	< 0.3	< 6.08E-07	< 0.3	< 5.54E-07
++ 2-Methylpentane	< 0.2	< 4.60E-07	1.3	3.07E-06	< 0.2	< 4.24E-07
++ 3-Methylpentane	< 0.2	< 4.60E-07	1.6	3.63E-06	< 0.2	< 4.24E-07

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-18
Extruder Sidewall Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
++ 1-Hexene	< 0.2	< 4.49E-07	< 0.2	< 4.55E-07	< 0.2	< 4.14E-07
++ n-Hexane	< 1.2	< 2.77E-06	1.2	2.79E-06	< 1.2	< 2.55E-06
++ trans-2-Hexene	< 0.2	< 4.49E-07	< 0.2	< 4.55E-07	< 0.2	< 4.14E-07
++ 2-Methyl-2-pentene	< 0.2	< 4.49E-07	< 0.2	< 4.55E-07	< 0.2	< 4.14E-07
++ cis-2-Hexene	< 0.2	< 4.49E-07	< 0.2	< 4.55E-07	< 0.2	< 4.14E-07
++ Methylcyclopentane	< 1.2	< 2.77E-06	1.3	3.00E-06	< 0.2	< 4.14E-07
++ Benzene	< 0.2	< 4.17E-07	1.7	3.93E-06	< 0.2	< 3.84E-07
++ Cyclohexane	< 0.2	< 4.49E-07	< 0.2	< 4.55E-07	< 0.2	< 4.14E-07
++ 2-Methylhexane	< 0.2	< 3.93E-07	< 0.2	< 3.98E-07	< 0.2	< 3.62E-07
++ 2,3-Dimethylpentane	< 0.2	< 3.93E-07	< 0.2	< 3.98E-07	< 0.2	< 3.62E-07
++ 3-Methylhexane	< 0.2	< 3.93E-07	< 0.2	< 3.98E-07	< 0.2	< 3.62E-07
++ 1-Heptene	< 0.2	< 3.85E-07	< 0.2	< 3.90E-07	< 0.2	< 3.55E-07
++ Isooctane	< 0.1	< 3.43E-07	< 0.1	< 3.47E-07	< 0.1	< 3.16E-07
++ n-Heptane	< 0.2	< 3.93E-07	< 0.2	< 3.98E-07	< 0.2	< 3.62E-07
++ Methylcyclohexane	< 0.2	< 3.85E-07	< 0.2	< 3.90E-07	< 0.2	< 3.55E-07
++ 2,4-Dimethylhexane	< 0.1	< 3.43E-07	< 0.1	< 3.47E-07	< 0.1	< 3.16E-07
++ 2,3,4-Trimethylpentane	< 0.1	< 3.43E-07	< 0.1	< 3.47E-07	< 0.1	< 3.16E-07
++ Toluene	< 1.1	< 2.54E-06	< 1.1	< 2.57E-06	< 1.1	< 2.34E-06
++ 2-Methylheptane	< 0.1	< 3.43E-07	< 0.1	< 3.47E-07	< 0.1	< 3.16E-07
++ 1-Octene	< 0.1	< 3.37E-07	< 0.1	< 3.41E-07	< 0.1	< 3.11E-07
++ n-Octane	< 0.1	< 3.43E-07	< 0.1	< 3.47E-07	< 0.1	< 3.16E-07
++ Ethylbenzene	< 0.1	< 3.18E-07	1.8	4.26E-06	< 0.1	< 2.94E-07
++ m-Xylene + p-Xylene	< 1.1	< 2.54E-06	< 1.1	< 2.57E-06	< 0.1	< 2.94E-07
++ Styrene	< 0.1	< 3.12E-07	< 0.1	< 3.17E-07	< 0.1	< 2.88E-07
++ o-Xylene	< 1.1	< 2.54E-06	< 1.1	< 2.57E-06	< 0.1	< 2.94E-07
++ n-Nonane	< 0.1	< 3.04E-07	< 0.1	< 3.08E-07	< 0.1	< 2.80E-07
++ Cumene	< 0.1	< 2.85E-07	< 0.1	< 2.89E-07	< 0.1	< 2.63E-07
++ a-Pinene	< 0.1	< 2.62E-07	< 0.1	< 2.65E-07	< 0.1	< 2.41E-07
++ n-Propylbenzene	< 0.1	< 2.85E-07	< 0.1	< 2.89E-07	< 0.1	< 2.63E-07
++ m-Ethyltoluene	< 0.1	< 2.85E-07	< 0.1	< 2.89E-07	< 0.1	< 2.63E-07
++ p-Ethyltoluene	< 0.1	< 2.85E-07	4.5	1.05E-05	< 0.1	< 2.63E-07
++ 1,3,5-Trimethylbenzene	8.3	1.92E-05	< 0.6	< 1.44E-06	< 0.6	< 1.31E-06
++ o-Ethyltoluene	< 0.6	< 1.42E-06	< 0.6	< 1.44E-06	< 0.6	< 1.31E-06
++ b-Pinene	< 0.6	< 1.31E-06	< 0.6	< 1.33E-06	6.8	1.45E-05
++ 1,2,4-Trimethylbenzene	8.3	1.92E-05	< 0.6	< 1.44E-06	< 0.6	< 1.31E-06
++ n-Decane	< 0.6	< 1.37E-06	< 0.6	< 1.38E-06	< 0.6	< 1.26E-06
++ p-Cymene	< 0.6	< 1.29E-06	< 0.6	< 1.31E-06	39.6	8.44E-05
++ d-Limonene	< 0.6	< 1.31E-06	< 0.6	< 1.33E-06	< 0.6	< 1.21E-06
++ 1,4-Diethylbenzene + n-Butylbenzene	< 0.6	< 1.29E-06	< 0.6	< 1.31E-06	< 0.6	< 1.19E-06
Total Detected	343.5	7.93E-04	285.3	6.67E-04	391.8	8.34E-04
Total with non-detects	< 830.3	< 1.92E-03	< 737.9	< 1.73E-03	< 859.5	< 1.83E-03

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-19
Extruder Sidewall Location B Speciated Volatiles

Compound	Run 1		Run 2		Run 3	
	Concentration µg/m³	Emission Rate lbs/hr	Concentration µg/m³	Emission Rate lbs/hr	Concentration µg/m³	Emission Rate lbs/hr
Dichlorodifluoromethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Chloromethane	< 8.0	< 1.49E-05	0.7	1.30E-06	0.5	9.72E-07
Vinyl Chloride	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Chloroethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Bromomethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Acetonitrile	< 16.0	< 2.99E-05	16.0	2.98E-05	< 16.0	< 3.11E-05
Acrolein	57.0	1.06E-04	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
Acetone	34.0	6.35E-05	33.0	6.14E-05	26.0	5.05E-05
Propylene Oxide	< 16.0	< 2.99E-05	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
Trichlorofluoromethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Acrylonitrile	< 16.0	< 2.99E-05	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
1,1-Dichloroethene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Methylene Chloride	< 8.0	< 1.49E-05	120.0	2.23E-04	130.0	2.53E-04
Allyl Chloride	< 16.0	< 2.99E-05	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
Carbon Disulfide	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	5.5	1.07E-05
Trichlortrifluoroethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
trans-1,2-Dichloroethene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
cis-1,2-Dichloroethene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,1-Dichloroethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
t-Butyl Methyl Ether	< 16.0	< 2.99E-05	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
Vinyl Acetate	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
2-Butanone	3.2	5.98E-06	10.8	2.01E-05	3.3	6.42E-06
Chloroform	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,2-Dichloroethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,1,1-Trichloroethane	< 8.0	< 1.49E-05	4.3	8.00E-06	4.3	8.36E-06
Carbon Tetrachloride	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,2-Dichloropropane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Bromodichloromethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,4-Dioxane	< 32.0	< 5.98E-05	< 32.0	< 5.95E-05	< 32.0	< 6.22E-05
Trichloroethene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Epichlorohydrin	< 16.0	< 2.99E-05	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
cis-1,3-Dichloropropene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
4-Methyl-2-Pentanone	555.0	1.04E-03	655.0	1.22E-03	830.0	1.61E-03
trans-1,2-Dichloropropene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,1,2-Trichloroethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Chlorodibromomethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
2-Hexanone	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,2-Dibromoethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Tetrachloroethene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentratio were predominately from reporting limits.

TRC

Table I.1-19
Extruder Sidewall Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Chlorobenzene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Bromoform	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,1,2,2-Tetrachloroethane	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
Benzyl Chloride	< 16.0	< 2.99E-05	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
1,3-Dichlorobenzene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,4-Dichlorobenzene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,2-Dichlorobenzene	< 8.0	< 1.49E-05	< 8.0	< 1.49E-05	< 8.0	< 1.56E-05
1,2-Dibromo-3-Chloropropane	< 16.0	< 2.99E-05	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
Hexachlorobutadiene	< 16.0	< 2.99E-05	< 16.0	< 2.98E-05	< 16.0	< 3.11E-05
+ Propane	30.0	5.60E-05	30.0	5.58E-05	30.0	5.83E-05
+ Cyclobutane	80.0	1.49E-04			30.0	5.83E-05
+ Isobutyl Alcohol	100.0	1.87E-04				
+ Tetrahydrofuran	100.0	1.87E-04				
+ Ethylhexanal	30.0	5.60E-05				
+ C9H12 Alkyl Substituted Benzene	150.0	2.80E-04	180.0	3.35E-04	180.0	3.50E-04
+ Ethylhexanol	300.0	5.60E-04				
+ Butane			30.0	5.58E-05		
++ Ethylene	9.3	1.74E-05	< 0.6	< 1.09E-06	< 0.6	< 1.13E-06
++ Acetylene	14.6	2.73E-05	< 0.5	< 1.01E-06	< 0.5	< 1.05E-06
++ Ethane	< 0.6	< 1.17E-06	< 0.6	< 1.16E-06	< 0.6	< 1.22E-06
++ Propylene	32.1	5.99E-05	< 0.4	< 7.23E-07	< 0.4	< 7.56E-07
++ Methylacetylene	< 0.4	< 6.74E-07	< 0.4	< 6.71E-07	< 0.4	< 7.02E-07
++ Isobutane	7.9	1.47E-05	< 0.3	< 5.62E-07	< 0.3	< 5.88E-07
++ Isobutylene + 1-Butene	< 1.2	< 2.24E-06	< 1.2	< 2.23E-06	< 1.2	< 2.33E-06
++ 1,3-Butadiene	< 0.3	< 5.25E-07	14.6	2.72E-05	< 0.3	< 5.47E-07
++ n-Butane	33.8	6.32E-05	< 0.3	< 5.62E-07	< 0.3	< 5.88E-07
++ trans-2-Butene	< 0.3	< 5.45E-07	< 0.3	< 5.43E-07	< 0.3	< 5.67E-07
++ 2,2-Dimethylpropane	< 0.2	< 4.48E-07	< 0.2	< 4.47E-07	< 0.2	< 4.67E-07
++ Ethylacetylene	< 0.3	< 5.25E-07	< 0.3	< 5.23E-07	< 0.3	< 5.47E-07
++ cis-2-Butene	< 0.3	< 5.45E-07	< 0.3	< 5.43E-07	< 0.3	< 5.67E-07
++ Isopentane	108.6	2.03E-04	4.8	8.93E-06	1.2	2.33E-06
++ 1-Pentene	< 0.2	< 4.36E-07	< 0.2	< 4.34E-07	< 0.2	< 4.54E-07
++ 2-Methyl-1-butene	< 0.2	< 4.36E-07	< 0.2	< 4.34E-07	< 0.2	< 4.54E-07
++ n-Pentane	21.0	3.92E-05	< 0.2	< 4.47E-07	< 0.2	< 4.67E-07
++ Isoprene	6.5	1.21E-05	0.2	3.16E-07	< 0.2	< 4.41E-07
++ trans-2-Pentene	< 0.2	< 4.36E-07	< 0.2	< 4.34E-07	< 0.2	< 4.54E-07
++ cis-2-Pentene	< 0.2	< 4.36E-07	< 1.2	< 2.23E-06	< 1.2	< 2.33E-06
++ 2-Methyl-2-butene	46.1	8.61E-05	< 0.2	< 4.34E-07	< 0.2	< 4.54E-07
++ 2,2-Dimethylbutane	< 0.2	< 3.72E-07	< 0.2	< 3.70E-07	< 0.2	< 3.87E-07

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentratio were predominately from reporting limits.

TRC

Table I.1-19
Extruder Sidewall Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
++ Cyclopentene	< 0.2	< 4.23E-07	< 0.2	< 4.22E-07	< 0.2	< 4.41E-07
++ 4-Methyl-1-pentene	7.0	1.31E-05	3.7	6.84E-06	3.4	6.69E-06
++ Cyclopentane + 2,3-Dimethylbutane	17.6	3.28E-05	< 0.3	< 4.84E-07	< 0.3	< 5.06E-07
++ 2-Methylpentane	23.9	4.46E-05	< 0.2	< 3.70E-07	1.4	2.79E-06
++ 3-Methylpentane	14.9	2.79E-05	< 0.2	< 3.70E-07	1.5	2.90E-06
++ 1-Hexene	< 0.2	< 3.63E-07	< 0.2	< 3.62E-07	< 0.2	< 3.78E-07
++ n-Hexane	35.2	6.58E-05	< 1.2	< 2.23E-06	3.6	6.97E-06
++ trans-2-Hexene	< 0.2	< 3.63E-07	< 0.2	< 3.62E-07	< 0.2	< 3.78E-07
++ 2-Methyl-2-pentene	< 0.2	< 3.63E-07	< 0.2	< 3.62E-07	< 0.2	< 3.78E-07
++ cis-2-Hexene	12.8	2.40E-05	< 0.2	< 3.62E-07	< 0.2	< 3.78E-07
++ Methylcyclopentane	15.5	2.89E-05	< 0.2	< 3.62E-07	< 1.2	< 2.33E-06
++ Benzene	14.8	2.77E-05	< 1.1	< 2.05E-06	< 1.1	< 2.14E-06
++ Cyclohexane	2.0	3.70E-06	< 0.2	< 3.62E-07	< 0.2	< 3.78E-07
++ 2-Methylhexane	6.6	1.22E-05	< 0.2	< 3.16E-07	< 0.2	< 3.31E-07
++ 2,3-Dimethylpentane	5.2	9.79E-06	< 0.2	< 3.16E-07	< 0.2	< 3.31E-07
++ 3-Methylhexane	8.9	1.67E-05	3.3	6.20E-06	2.3	4.40E-06
++ 1-Heptene	2.5	4.58E-06	< 0.2	< 3.10E-07	< 0.2	< 3.24E-07
++ Isooctane	16.2	3.03E-05	< 0.1	< 2.76E-07	< 0.1	< 2.89E-07
++ n-Heptane	6.6	1.22E-05	< 0.2	< 3.16E-07	< 0.2	< 3.31E-07
++ Methylcyclohexane	14.6	2.72E-05	< 0.2	< 3.10E-07	< 0.2	< 3.24E-07
++ 2,4-Dimethylhexane	1.8	3.33E-06	< 0.1	< 2.76E-07	< 0.1	< 2.89E-07
++ 2,3,4-Trimethylpentane	9.5	1.77E-05	< 0.1	< 2.76E-07	< 0.1	< 2.89E-07
++ Toluene	44.4	8.28E-05	< 1.1	< 2.05E-06	< 1.1	< 2.14E-06
++ 2-Methylheptane	8.3	1.55E-05	< 0.1	< 2.76E-07	< 0.1	< 2.89E-07
++ 1-Octene	15.2	2.83E-05	< 0.1	< 2.71E-07	< 0.1	< 2.84E-07
++ n-Octane	11.3	2.11E-05	< 0.1	< 2.76E-07	< 0.1	< 2.89E-07
++ Ethylbenzene	11.6	2.16E-05	< 0.1	< 2.57E-07	< 0.1	< 2.68E-07
++ m-Xylene + p-Xylene	28.7	5.36E-05	0.6	1.03E-06	< 1.1	< 2.14E-06
++ Styrene	3.9	7.28E-06	< 0.1	< 2.52E-07	< 0.1	< 2.63E-07
++ o-Xylene	12.0	2.25E-05	3.2	5.96E-06	0.2	3.22E-07
++ n-Nonane	4.4	8.19E-06	< 0.1	< 2.45E-07	< 0.1	< 2.56E-07
++ Cumene	5.3	9.86E-06	< 0.1	< 2.30E-07	< 0.1	< 2.40E-07
++ a-Pinene	7.1	1.32E-05	< 0.1	< 2.11E-07	< 0.1	< 2.20E-07
++ n-Propylbenzene	7.2	1.35E-05	4.5	8.37E-06	4.4	8.64E-06
++ m-Ethyltoluene	26.1	4.88E-05	23.3	4.34E-05	17.8	3.46E-05
++ p-Ethyltoluene	15.0	2.80E-05	10.0	1.86E-05	8.9	1.73E-05
++ 1,3,5-Trimethylbenzene	23.9	4.46E-05	21.7	4.03E-05	15.0	2.92E-05
++ o-Ethyltoluene	11.7	2.18E-05	8.9	1.65E-05	6.1	1.19E-05
++ b-Pinene	7.4	1.38E-05	< 0.6	< 1.05E-06	< 0.6	< 1.10E-06
++ 1,2,4-Trimethylbenzene	48.3	9.03E-05	36.1	6.72E-05	26.7	5.18E-05
++ n-Decane	12.4	2.32E-05	< 0.6	< 1.10E-06	< 0.6	< 1.15E-06
++ p-Cymene	21.8	4.07E-05	8.4	1.56E-05	8.4	1.63E-05
++ d-Limonene	< 0.6	< 1.06E-06	< 0.6	< 1.05E-06	< 0.6	< 1.10E-06
++ 1,4-Diethylbenzene + n-Butylbenzene	10.6	1.98E-05	< 0.6	< 1.04E-06	< 0.6	< 1.09E-06
Total Detected	2271.2	4.24E-03	1222.3	2.27E-03	1340.4	2.61E-03
Total with non-detects	< 2725.3	< 9.33E-03	< 1665.1	< 3.10E-03	< 1791.6	< 3.48E-03

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentratio were predominately from reporting limits.

TRC

Table I.1-20

Extruder EPDM Locations A and B Speciated Volatiles

Compound	CAS #	Run 1				Run 2				Run 3				Average			
		Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber	Concentration µg/m³	Emission Rate lbs/hr	Emission Rate lbs/lb rubber	Emission Rate lbs/ft² rubber
Dichlorodifluoromethane	75-71-8	12.0	4.13E-05	1.13E-07	4.76E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 1.66E-05	< 4.86E-08	< 1.86E-08	< 14.7	< 3.01E-05	< 8.363E-08	< 3.531E-08
Chloromethane	74-87-3	6.3	1.29E-05	3.52E-08	1.49E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	5.3	2.01E-05	5.87E-08	2.24E-08	< 9.2	< 2.17E-05	< 6.113E-08	< 2.568E-08
Vinyl Chloride	75-01-4	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 2.16E-05	< 6.31E-08	< 2.41E-08	< 16.0	< 2.89E-05	< 8.075E-08	< 3.390E-08
Chloroethane	75-00-3	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
Bromomethane	74-83-9	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
Acetonitrile	1722-09-4	< 32.0	< 6.56E-05	< 1.79E-07	< 7.57E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 4.79E-05	< 1.40E-07	< 5.36E-08	< 32.0	< 5.93E-05	< 1.661E-07	< 6.957E-08
Acrolein	107-02-8	13.0	5.93E-05	1.62E-07	6.84E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 6.25E-05	< 1.83E-07	< 7.00E-08	< 25.7	< 6.21E-05	< 1.747E-07	< 7.260E-08
Acetone	67-64-1	29.0	9.14E-05	2.50E-07	1.05E-07	90.0	1.74E-04	4.83E-07	2.15E-07	91.0	1.21E-04	3.53E-07	1.35E-07	70.0	1.29E-04	3.622E-07	1.517E-07
Propylene Oxide	75-56-9	< 32.0	< 6.56E-05	< 1.79E-07	< 7.57E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 1.19E-04	< 3.49E-07	< 1.34E-07	< 32.0	< 8.32E-05	< 2.359E-07	< 9.822E-08
Trichlorofluoromethane	75-69-4	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 4.59E-05	< 1.34E-07	< 5.14E-08	< 16.0	< 3.70E-05	< 1.045E-07	< 4.299E-08
Acrylonitrile	107-13-1	< 32.0	< 6.56E-05	< 1.79E-07	< 7.57E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 4.79E-05	< 1.40E-07	< 5.36E-08	< 32.0	< 5.93E-05	< 1.661E-07	< 6.957E-08
1,1-Dichloroethene	75-35-4	3.8	2.35E-05	6.42E-08	2.71E-08	10.3	2.00E-05	5.55E-08	2.47E-08	< 16.0	< 4.59E-05	< 1.34E-07	< 5.14E-08	< 10.0	< 2.98E-05	< 8.475E-08	< 3.439E-08
Methylene Chloride	79-09-2	890.0	1.82E-03	4.97E-06	2.10E-06	250.0	5.02E-04	1.39E-06	6.18E-07	300.0	3.26E-04	9.55E-07	3.65E-07	480.0	9.82E-04	2.439E-06	1.027E-06
Allyl Chloride	107-05-1	< 32.0	< 6.56E-05	< 1.79E-07	< 7.57E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 3.06E-04	< 9.02E-07	< 3.45E-07	< 32.0	< 1.46E-04	< 4.200E-07	< 1.666E-07
Carbon Disulfide	75-15-0	13.7	2.82E-05	7.72E-08	3.26E-08	5.3	2.75E-05	7.62E-08	3.39E-08	13.0	4.59E-05	1.34E-07	5.14E-08	10.7	3.39E-05	9.597E-08	3.927E-08
Trichlorotrifluoroethane	76-13-1	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 4.04E-05	< 1.18E-07	< 4.52E-08	< 16.0	< 3.52E-05	< 9.917E-08	< 4.094E-08
trans-1,2-Dichloroethene	156-60-5	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
cis-1,2-Dichloroethene	156-59-2	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
1,1-Dichloroethane	75-34-3	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
t-Butyl Methyl Ether	1634-04-4	< 32.0	< 6.56E-05	< 1.79E-07	< 7.57E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 4.79E-05	< 1.40E-07	< 5.36E-08	< 32.0	< 5.93E-05	< 1.661E-07	< 6.957E-08
Vinyl Acetate	108-05-4	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 4.59E-05	< 1.34E-07	< 5.14E-08	< 16.0	< 3.70E-05	< 1.045E-07	< 4.299E-08
2-Butanone	78-93-3	24.6	5.13E-05	1.40E-07	5.92E-08	13.1	2.60E-05	7.22E-08	3.21E-08	6.6	4.79E-05	1.40E-07	5.36E-08	14.8	4.17E-05	1.176E-07	4.829E-08
Chloroform	67-66-3	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 2.87E-05	< 8.40E-08	< 3.21E-08	< 16.0	< 3.13E-05	< 8.772E-08	< 3.656E-08
1,2-Dichloroethane	107-06-3	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
1,1,1-Trichloroethane	71-55-6	17.0	5.18E-05	1.42E-07	5.98E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.3	< 3.85E-05	< 1.076E-07	< 4.484E-08
Carbon Tetrachloride	56-23-5	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
1,2-Dichloropropane	78-87-5	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
Bromodichloromethane	75-27-4	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
1,4-Dioxane	123-91-1	32.0	1.31E-04	3.59E-07	1.51E-07	< 64.0	< 1.29E-04	< 3.58E-07	< 1.59E-07	< 64.0	< 6.11E-05	< 2.37E-07	< 9.07E-08	< 53.3	< 1.14E-04	< 3.180E-07	< 1.337E-07
Trichloroethene	79-01-6	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 7.52E-05	< 2.20E-07	< 8.42E-08	< 16.0	< 4.68E-05	< 1.331E-07	< 5.392E-08
Epichlorohydrin	106-89-8	< 32.0	< 6.56E-05	< 1.79E-07	< 7.57E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 4.79E-05	< 1.40E-07	< 5.36E-08	< 32.0	< 5.93E-05	< 1.661E-07	< 6.957E-08
cis-1,3-Dichloropropene	1006-01-5	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 4.59E-05	< 1.34E-07	< 5.14E-08	< 16.0	< 3.70E-05	< 1.045E-07	< 4.299E-08
4-Methyl-2-Pentanone	108-10-1	9.2	8.50E-05	2.27E-07	9.58E-08	83.0	1.52E-04	4.20E-07	1.86E-07	27.0	7.07E-05	2.07E-07	7.91E-08	39.7	1.02E-04	2.846E-07	1.206E-07
trans-1,2-Dichloropropene	1006-02-6	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
1,1,2-Trichloroethane	79-00-5	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
Chlorodibromomethane	124-48-1	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
2-Hexanone	591-78-6	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
1,2-Dibromoethane	106-93-4	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 9.023E-08	< 3.752E-08
Tetrachloroethene	127-18-4	3.5	2.33E-05	6.37E-08	2.69E-08	3.3	2.40E-05	6.65E-08	2.95E-08	< 16.0	< 3.13E-05	< 9.16E-08	< 3.50E-08	< 7.8	< 2.62E-05	< 7.389E-08	< 3.046E-08

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-20

Extruder EPDM Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Chlorobenzene	108-90-7	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 8.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 8.023E-08	< 3.752E-08
Bromoform	75-25-2	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 8.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 8.023E-08	< 3.752E-08
1,1,2,2-Tetrachloroethane	79-34-5	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 8.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 8.023E-08	< 3.752E-08
Benzyl Chloride	100-44-7	< 32.0	< 6.56E-05	< 1.79E-07	< 7.57E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 4.79E-05	< 1.40E-07	< 5.36E-08	< 32.0	< 5.93E-05	< 1.661E-07	< 6.957E-08
1,3-Dichlorobenzene	541-34-5	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 4.58E-05	< 1.34E-07	< 5.14E-08	< 16.0	< 3.70E-05	< 1.045E-07	< 4.299E-08
1,4-Dichlorobenzene	106-73-1	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 8.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 8.023E-08	< 3.752E-08
1,2-Dichlorobenzene	95-50-1	< 16.0	< 3.28E-05	< 8.97E-08	< 3.79E-08	< 16.0	< 3.23E-05	< 8.94E-08	< 3.97E-08	< 16.0	< 3.13E-05	< 8.16E-08	< 3.50E-08	< 16.0	< 3.21E-05	< 8.023E-08	< 3.752E-08
1,2-Dibromo-3-Chloropropane	96-12-8	< 32.0	< 6.56E-05	< 1.79E-07	< 7.57E-08	< 32.0	< 6.46E-05	< 1.79E-07	< 7.94E-08	< 32.0	< 4.79E-05	< 1.40E-07	< 5.36E-08	< 32.0	< 5.93E-05	< 1.661E-07	< 6.957E-08
Hexachlorobutadiene	87-68-3	32.0	9.74E-05	2.66E-07	1.12E-07	35.0	9.91E-05	2.72E-07	1.21E-07	< 32.0	< 6.25E-05	< 1.83E-07	< 7.00E-08	< 33.0	< 9.60E-05	< 2.404E-07	< 1.010E-07
+ Pentane	109-66-0	40.0	9.46E-05	2.31E-07	9.76E-08	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	2.93E-05	8.58E-08	3.28E-08	13.3	3.80E-05	1.057E-07	4.347E-08
+ Methylpentane		140.0	2.96E-04	8.10E-07	3.42E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	46.7	9.87E-05	2.699E-07	1.139E-07
+ Methylcyclopentane	00096-37-7	80.0	1.69E-04	4.63E-07	1.95E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	26.7	5.64E-05	1.542E-07	6.508E-08
+ Decane	124-18-5	30.0	6.35E-05	1.74E-07	7.32E-08	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	10.0	2.12E-05	5.783E-08	2.441E-08
+ Undecane	1120-21-4	30.0	6.35E-05	1.74E-07	7.32E-08	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	10.0	2.12E-05	5.783E-08	2.441E-08
+ Dodecane	112-40-3	20.0	4.23E-05	1.16E-07	4.88E-08	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	6.7	1.41E-05	3.856E-08	1.627E-08
+ Heptanone		0.0	0.00E+00	0.00E+00	0.00E+00	110.0	2.19E-04	6.08E-07	2.70E-07	0.0	0.00E+00	0.00E+00	0.00E+00	36.7	7.31E-05	2.026E-07	9.000E-08
+ Naphthalene	91-20-3	300.0	5.96E-04	1.63E-06	6.87E-07	110.0	2.45E-04	6.79E-07	3.01E-07	6.0	1.25E-05	3.65E-08	1.39E-08	138.7	2.84E-04	7.809E-07	3.341E-07
+ C9H10 Alkyl Substituted Benzene		40.0	7.94E-05	2.17E-07	9.16E-08	40.0	7.06E-05	1.96E-07	8.69E-08	350.0	7.15E-04	2.09E-06	8.00E-07	143.3	2.88E-04	8.350E-07	3.260E-07
+ Isopropyl Alcohol	67-63-0	40.0	7.94E-05	2.17E-07	9.16E-08	0.0	0.00E+00	0.00E+00	0.00E+00	100.0	2.08E-04	6.08E-07	2.32E-07	46.7	9.57E-05	2.751E-07	1.080E-07
+ Pyridine	110-86-1	80.0	1.59E-04	4.34E-07	1.83E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	26.7	5.29E-05	1.448E-07	6.109E-08
+ C8H12 Cyclic Hydrocarbon		200.0	3.97E-04	1.09E-06	4.58E-07	20.0	3.53E-05	9.78E-08	4.34E-08	20.0	3.66E-05	1.07E-07	4.10E-08	80.0	1.56E-04	4.302E-07	1.809E-07
+ C11-C12 Branched Alkane		200.0	3.97E-04	1.09E-06	4.58E-07	0.0	0.00E+00	0.00E+00	0.00E+00	300.0	5.50E-04	1.61E-06	6.15E-07	166.7	3.16E-04	8.983E-07	3.577E-07
+ Isobutyraldehyde	78-84-2	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	40.0	7.33E-05	2.16E-07	8.20E-08	13.3	2.44E-05	7.152E-08	2.733E-08
+ Butanal	123-72-8	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	100.0	1.83E-04	5.36E-07	2.05E-07	33.3	6.11E-05	1.788E-07	6.832E-08
+ Isobutanol	78-83-1	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	40.0	7.33E-05	2.15E-07	8.20E-08	13.3	2.44E-05	7.152E-08	2.733E-08
+ 1-Butanol	00071-36-3	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	60.0	1.10E-04	3.22E-07	1.23E-07	20.0	3.66E-05	1.073E-07	4.099E-08
+ Ethylhexenal		0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	60.0	1.10E-04	3.22E-07	1.23E-07	20.0	3.66E-05	1.073E-07	4.099E-08
++ Ethylene	00074-85-1	5.3	1.07E-05	2.92E-08	1.23E-08	3.3	6.58E-06	2.38E-08	1.06E-08	< 1.2	< 2.28E-06	< 6.68E-09	< 2.55E-09	< 3.2	< 7.18E-06	< 1.989E-08	< 8.479E-09
++ Acetylene	00074-86-2	5.1	1.04E-05	2.85E-08	1.20E-08	< 1.1	< 2.18E-06	< 6.05E-09	< 2.69E-09	2.0	5.15E-06	1.51E-08	5.77E-09	< 2.7	< 5.93E-06	< 1.656E-08	< 6.833E-09
++ Ethane	00074-84-0	8.8	1.81E-05	4.94E-08	2.09E-08	4.3	1.09E-05	3.02E-08	1.34E-08	3.3	7.26E-06	2.12E-08	8.12E-09	5.5	1.21E-05	3.362E-08	1.413E-08
++ Propylene	00115-07-1	18.7	3.84E-05	1.05E-07	4.43E-08	4.4	1.08E-05	2.98E-08	1.32E-08	4.8	1.03E-05	3.01E-08	1.15E-08	9.2	1.98E-05	5.493E-08	2.300E-08
++ Propane	00074-98-6	< 0.8	< 1.67E-06	< 4.57E-09	< 1.93E-09	< 0.8	< 1.64E-06	< 4.56E-09	< 2.02E-09	3.7	7.68E-06	2.25E-08	8.59E-09	< 1.8	< 3.66E-06	< 1.054E-08	< 4.181E-09
++ Methylacetylene	00074-99-7	< 0.7	< 1.48E-06	< 4.05E-09	< 1.71E-09	< 0.7	< 1.46E-06	< 4.04E-09	< 1.79E-09	< 0.7	< 1.41E-06	< 4.13E-09	< 1.58E-09	< 0.7	< 1.45E-06	< 4.072E-09	< 1.623E-09
++ Isobutane	00075-28-5	72.5	1.48E-04	4.06E-07	1.71E-07	< 0.6	< 1.22E-06	< 3.38E-09	< 1.50E-09	2.0	4.28E-06	1.25E-08	4.79E-09	< 25.0	< 5.13E-05	< 1.406E-07	< 5.917E-08
++ Isobutylene + 1-Butene	00115-11-7, 00106-98-9	71.8	1.47E-04	4.02E-07	1.70E-07	12.1	2.62E-05	7.00E-08	3.11E-08	3.2	6.48E-06	1.90E-08	7.28E-09	29.0	5.96E-05	1.637E-07	6.938E-08
++ 1,3-Butadiene	00106-99-0	< 0.6	< 1.15E-06	< 3.15E-09	< 1.33E-09	11.8	2.15E-05	5.95E-08	2.64E-08	21.5	4.02E-05	1.18E-07	4.50E-08	< 11.3	< 2.09E-05	< 6.014E-08	< 2.426E-08
++ n-Butane	00106-97-8	44.7	9.19E-05	2.51E-07	1.06E-07	16.3	3.31E-05	9.16E-08	4.07E-08	13.7	2.60E-05	7.61E-08	2.91E-08	24.9	5.03E-05	1.396E-07	5.880E-08
++ trans-2-Butene	000624-64-6	< 0.6	< 1.20E-06	< 3.27E-09	< 1.38E-09	< 0.6	< 1.18E-06	< 3.26E-09	< 1.45E-09	< 0.6	< 1.14E-06	< 3.34E-09	< 1.28E-09	< 0.6	< 1.17E-06	< 3.290E-09	< 1.368E-09
++ 2,2-Dimethylpropane	00463-82-1	< 0.5	< 9.85E-07	< 2.69E-09	< 1.14E-09	< 0.5	< 9.69E-07	< 2.68E-09	< 1.19E-09	< 0.5	< 9.38E-07	< 2.75E-09	< 1.05E-09	< 0.5	< 9.64E-07	< 2.708E-09	< 1.126E-09
++ Ethylacetylene	00107-00-6	< 0.6	< 1.15E-06	< 3.15E-09	< 1.33E-09	< 0.6	< 1.13E-06	< 3.14E-09	< 1.40E-09	< 0.6	< 1.10E-06	< 3.22E-09	< 1.23E-09	< 0.6	< 1.13E-06	< 3.172E-09	< 1.318E-09
++ cis-2-Butene	00590-18-1	< 0.6	< 1.20E-06	< 3.27E-09	< 1.38E-09	< 0.6	< 1.18E-06	< 3.26E-09	< 1.45E-09	< 0.6	< 1.14E-06	< 3.34E-09	< 1.28E-09	< 0.6	< 1.17E-06	< 3.290E-09	< 1.368E-09
++ Isopentane	00078-78-4	1038.4	2.13E-03	5.91E-06	2.45E-06	177.1	3.78E-04	1.04E-06	4.63E-07	109.8	2.16E-04	6.32E-07	2.42E-07	441.8	9.06E-04	2.496E-06	1.053E-06
++ 1-Pentene	00109-67-1	< 0.5	< 9.57E-07	< 2.62E-09	< 1.10E-09	< 0.5	< 9.42E-07	< 2.61E-09	< 1.16E-09	26.8	5.62E-05	1.64E-07	6.28E-08	< 9.3	< 1.94E-05	< 5.656E-08	< 2.170E-08
++ 2-Methyl-1-butene	00563-46-2	< 0.5	< 9.57E-07	< 2.62E-09	< 1.10E-09	< 0.5	< 9.42E-07	< 2.61E-09	< 1.16E-09	< 0.5	< 9.12E-07	< 2.67E-09	< 1.02E-09	< 0.5	< 9.37E-07	< 2.632E-09	< 1.095E-09
++ n-Pentane	00109-66-0	57.6	1.16E-04	3.23E-07	1.36E-07	6.5	1.28E-05	3.54E-08	1.57E-08	7.0	1.39E-05	4.07E-08	1.55E-08	23.7	4.62E-05	1.329E-07	5.580E-08
++ Isoprene	00078-79-5	5.2	1.05E-05	2.89E-08	1.22E-08	2.8	5.41E-06	1.50E-08	6.66E-09	5.9	1.17E-05	3.41E-08	1.30E-08	4.6	9.21E-06	2.598E-08	1.083E-08
++ trans-2-Pentene	000646-04-8	< 0.5	< 9.57E-07	< 2.62E-09	< 1.10E-09	< 0.5	< 9.42E-07	< 2.61E-09	< 1.16E-09	< 0.5	< 9.12E-07	< 2.67E-09	< 1.02E-09	< 0.5	< 9.37E-07	< 2.632E-09	< 1.095E-09
++ cis-2-Pentene	000627-20-3	151.7	3.10E-04	8.48E-07	3.58E-07	107.9	2.35E-04	6.50E-07	2.89E-07	22.2	4.65E-05	1.36E-07	5.20E-08	93.9	1.97E-04	5.449E-07	2.330E-07
++ 2-Methyl-2-butene	00513-35-9	< 0.5	< 9.57E-07	< 2.62E-09	< 1.10E-09	< 0.5	< 9.42E-07	< 2.61E-09	< 1.16E-09	22.8	4.22E-05	1.23E-07	4.72E-08	< 7.9	< 1.47E-05	< 4.290E-08	< 1.648E-08

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-20

Extruder EPDM Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
++ 2,2-Dimethylbutane	00075-83-2	5.8	1.18E-05	3.24E-08	1.37E-08	4.8	1.00E-05	2.78E-08	1.24E-08	3.2	6.32E-06	1.95E-08	7.09E-09	4.6	9.41E-06	2.625E-08	1.104E-08
++ Cyclopentane	00142-29-0	1.8	3.81E-06	1.04E-08	4.39E-09	< 0.5	< 9.15E-07	< 2.53E-09	< 1.13E-09	< 0.5	< 8.96E-07	< 2.58E-09	< 8.91E-10	< 0.8	< 1.87E-06	< 5.179E-09	< 2.170E-09
++ 4-Methyl-1-pentene	00691-37-2	< 0.4	< 7.98E-07	< 2.18E-09	< 9.20E-10	< 0.4	< 7.85E-07	< 2.17E-09	< 9.66E-10	3.2	6.18E-06	1.81E-08	8.91E-09	< 1.3	< 2.58E-06	< 7.479E-09	< 2.932E-09
++ Cyclopentane + 2,3-Dimethylbut	00287-92-3, 00079-29-8	33.2	6.77E-05	1.85E-07	7.81E-08	7.0	1.48E-05	4.09E-08	1.82E-08	6.6	1.27E-05	3.73E-08	1.43E-08	15.6	3.17E-05	8.777E-08	3.684E-08
++ 2-Methylpentane	00107-83-5	106.9	2.19E-04	5.98E-07	2.52E-07	8.1	1.84E-05	5.10E-08	2.27E-08	6.4	1.23E-05	3.59E-08	1.37E-08	40.8	8.31E-05	2.293E-07	8.623E-08
++ 3-Methylpentane	00096-14-0	123.1	2.52E-04	6.88E-07	2.91E-07	14.9	3.03E-05	8.39E-08	3.73E-08	10.0	1.89E-05	5.55E-08	2.12E-08	49.3	1.00E-04	2.759E-07	1.163E-07
++ 1-Hexene	00592-41-6	< 0.4	< 7.98E-07	< 2.18E-09	< 9.20E-10	< 0.4	< 7.85E-07	< 2.17E-09	< 9.66E-10	< 0.4	< 7.60E-07	< 2.23E-09	< 8.51E-10	< 0.4	< 7.81E-07	< 2.194E-09	< 9.122E-10
++ n-Hexane	00110-54-3	348.5	7.09E-04	1.94E-06	8.18E-07	62.7	1.29E-04	3.56E-07	1.58E-07	39.8	7.49E-05	2.19E-07	8.38E-08	149.4	3.04E-04	8.379E-07	3.533E-07
++ trans-2-Hexene	04050-45-7	< 0.4	< 7.98E-07	< 2.18E-09	< 9.20E-10	< 0.4	< 7.85E-07	< 2.17E-09	< 9.66E-10	< 0.4	< 7.60E-07	< 2.23E-09	< 8.51E-10	< 0.4	< 7.81E-07	< 2.194E-09	< 9.122E-10
++ 2-Methyl-2-pentene	00625-27-4	< 0.4	< 7.98E-07	< 2.18E-09	< 9.20E-10	< 0.4	< 7.85E-07	< 2.17E-09	< 9.66E-10	< 0.4	< 7.60E-07	< 2.23E-09	< 8.51E-10	< 0.4	< 7.81E-07	< 2.194E-09	< 9.122E-10
++ cis-2-Hexene	07688-21-3	9.1	1.84E-05	5.04E-08	2.13E-08	< 0.4	< 7.85E-07	< 2.17E-09	< 9.66E-10	12.3	2.28E-05	6.69E-08	2.56E-08	< 7.2	< 1.40E-05	< 3.981E-08	< 1.593E-08
++ Methylcyclopentane	00096-37-7	134.2	2.75E-04	7.51E-07	3.17E-07	54.8	1.11E-04	3.07E-07	1.37E-07	29.2	5.49E-05	1.61E-07	6.14E-08	72.7	1.47E-04	4.064E-07	1.717E-07
++ Benzene	00071-43-2	15.7	3.22E-05	8.81E-08	3.72E-08	11.0	2.28E-05	6.31E-08	2.80E-08	13.6	2.53E-05	7.41E-08	2.83E-08	13.4	2.68E-05	7.512E-08	3.118E-08
++ Cyclohexane	00110-82-7	24.5	5.03E-05	1.38E-07	5.81E-08	3.3	6.69E-06	1.85E-08	8.24E-09	< 0.4	< 7.60E-07	< 2.23E-09	< 8.51E-10	< 9.4	< 1.93E-05	< 5.279E-08	< 2.238E-08
++ 2-Methylhexane	00591-76-4	4.9	1.02E-05	2.78E-08	1.17E-08	< 0.3	< 6.86E-07	< 1.90E-09	< 8.45E-10	< 0.3	< 6.65E-07	< 1.95E-09	< 7.44E-10	< 1.9	< 3.84E-06	< 1.054E-08	< 4.437E-09
++ 2,3-Dimethylpentane	00565-59-3	2.3	5.12E-06	1.40E-08	5.91E-09	< 0.3	< 6.86E-07	< 1.90E-09	< 8.45E-10	< 0.3	< 6.65E-07	< 1.95E-09	< 7.44E-10	< 1.0	< 2.18E-06	< 5.953E-09	< 2.500E-09
++ 3-Methylhexane	00589-34-4	10.3	2.10E-05	5.75E-08	2.43E-08	< 0.3	< 6.86E-07	< 1.90E-09	< 8.45E-10	< 0.3	< 6.65E-07	< 1.95E-09	< 7.44E-10	< 3.7	< 7.48E-06	< 2.044E-08	< 8.613E-09
++ 1-Heptene	00592-76-7	< 0.3	< 6.84E-07	< 1.87E-09	< 7.89E-10	< 0.3	< 6.73E-07	< 1.86E-09	< 8.28E-10	< 0.3	< 6.52E-07	< 1.91E-09	< 7.29E-10	< 0.3	< 6.63E-07	< 1.880E-09	< 7.819E-10
++ Isooctane	00540-84-1	10.3	2.14E-05	5.84E-08	2.47E-08	1.6	3.90E-06	1.08E-08	4.80E-09	< 0.3	< 5.80E-07	< 1.70E-09	< 6.49E-10	< 4.1	< 8.82E-06	< 2.384E-08	< 1.004E-08
++ n-Heptane	00142-82-5	9.2	1.89E-05	5.16E-08	2.18E-08	< 0.3	< 6.86E-07	< 1.90E-09	< 8.45E-10	5.0	9.52E-06	2.79E-08	1.06E-08	< 4.8	< 9.89E-06	< 2.712E-08	< 1.109E-08
++ Methylcyclohexane	00108-87-2	14.6	2.99E-05	8.17E-08	3.45E-08	< 0.3	< 6.73E-07	< 1.86E-09	< 8.28E-10	< 0.3	< 6.52E-07	< 1.91E-09	< 7.29E-10	< 5.1	< 1.04E-05	< 2.848E-08	< 1.201E-08
++ 2,4-Dimethylhexane	00589-43-5	< 0.3	< 6.09E-07	< 1.66E-09	< 7.03E-10	< 0.3	< 5.99E-07	< 1.66E-09	< 7.37E-10	< 0.3	< 5.80E-07	< 1.70E-09	< 6.49E-10	< 0.3	< 5.96E-07	< 1.675E-09	< 6.964E-10
++ 2,3,4-Trimethylpentane	00565-75-3	< 0.3	< 6.09E-07	< 1.66E-09	< 7.03E-10	< 0.3	< 5.99E-07	< 1.66E-09	< 7.37E-10	< 0.3	< 5.80E-07	< 1.70E-09	< 6.49E-10	< 0.3	< 5.96E-07	< 1.675E-09	< 6.964E-10
++ Toluene	00108-88-3	399.7	8.18E-04	2.24E-06	9.44E-07	54.8	1.09E-04	3.02E-07	1.34E-07	28.3	5.00E-05	1.46E-07	5.60E-08	160.2	3.26E-04	8.948E-07	3.779E-07
++ 2-Methylheptane	00592-27-8	< 0.3	< 6.09E-07	< 1.66E-09	< 7.03E-10	< 0.3	< 5.99E-07	< 1.66E-09	< 7.37E-10	< 0.3	< 5.80E-07	< 1.70E-09	< 6.49E-10	< 0.3	< 5.96E-07	< 1.675E-09	< 6.964E-10
++ 1-Octene	00111-66-0	< 0.3	< 5.98E-07	< 1.64E-09	< 6.90E-10	< 0.3	< 5.89E-07	< 1.63E-09	< 7.24E-10	< 0.3	< 5.70E-07	< 1.67E-09	< 6.38E-10	< 0.3	< 5.86E-07	< 1.645E-09	< 6.841E-10
++ n-Octane	00111-65-9	3.9	7.97E-06	2.18E-08	9.19E-09	< 0.3	< 5.99E-07	< 1.66E-09	< 7.37E-10	2.3	4.55E-06	1.33E-08	5.09E-09	< 2.2	< 4.37E-06	< 1.226E-08	< 5.008E-09
++ Ethylbenzene	00100-41-4	9.1	1.86E-05	5.09E-08	2.15E-08	4.9	9.49E-06	2.63E-08	1.17E-08	2.4	4.83E-06	1.36E-08	5.19E-09	5.4	1.09E-05	3.026E-08	1.278E-08
++ m-Xylene + p-Xylene	00108-38-3, 00106-42-3	38.2	8.03E-05	2.20E-07	9.27E-08	28.7	6.71E-05	1.58E-07	7.02E-08	14.7	2.75E-05	8.06E-08	3.08E-08	27.5	5.60E-05	1.528E-07	6.457E-08
++ Styrene	00100-42-5	< 0.3	< 5.55E-07	< 1.52E-09	< 6.41E-10	7.5	1.52E-05	4.20E-08	1.87E-08	5.0	9.51E-06	2.78E-08	1.06E-08	< 4.3	< 8.41E-06	< 2.380E-08	< 8.983E-09
++ o-Xylene	00095-47-6	14.9	3.07E-05	8.38E-08	3.54E-08	17.1	3.41E-05	9.45E-08	4.20E-08	8.9	1.65E-05	4.82E-08	1.84E-08	13.6	2.71E-05	7.552E-08	3.193E-08
++ n-Nonane	00111-84-2	5.2	1.07E-05	2.92E-08	1.23E-08	1.9	4.54E-06	1.26E-08	5.59E-09	2.4	4.62E-06	1.35E-08	5.17E-09	3.2	6.61E-06	1.844E-08	7.696E-09
++ Cumene	00098-82-8	88.7	1.37E-04	3.73E-07	1.58E-07	472.2	9.48E-04	2.63E-06	1.17E-06	264.4	4.93E-04	1.44E-06	5.52E-07	267.8	5.26E-04	1.492E-06	6.256E-07
++ a-Pinene	07785-70-8	< 0.2	< 4.65E-07	< 1.27E-09	< 5.36E-10	7.4	1.53E-05	4.23E-08	1.88E-08	5.2	9.68E-06	2.84E-08	1.08E-08	< 4.3	< 8.47E-06	< 2.398E-08	< 1.006E-08
++ n-Propylbenzene	00103-65-1	< 0.2	< 5.06E-07	< 1.38E-09	< 5.84E-10	< 0.2	< 4.98E-07	< 1.38E-09	< 6.13E-10	3.1	5.85E-06	1.71E-08	6.55E-09	< 1.2	< 2.29E-06	< 6.635E-09	< 2.582E-09
++ m-Ethyltoluene	00620-14-4	10.8	2.12E-05	5.90E-08	2.45E-08	10.0	2.29E-05	6.35E-08	2.82E-08	15.5	2.92E-05	8.55E-08	3.27E-08	12.0	2.44E-05	6.900E-08	2.845E-08
++ p-Ethyltoluene	00622-96-8	4.4	8.53E-06	2.61E-08	1.10E-08	20.1	3.72E-05	1.03E-07	4.68E-08	4.2	7.89E-06	2.31E-08	8.83E-09	9.6	1.82E-05	5.076E-08	2.168E-08
++ 1,3,5-Trimethylbenzene	00108-67-8	7.2	1.58E-05	4.28E-08	1.81E-08	6.7	1.32E-05	3.65E-08	1.62E-08	7.2	1.45E-05	4.25E-08	1.62E-08	7.0	1.44E-05	4.058E-08	1.683E-08
++ o-Ethyltoluene	00611-14-3	< 1.2	< 2.53E-06	< 6.92E-09	< 2.92E-09	71.1	1.42E-04	3.93E-07	1.74E-07	95.0	1.88E-04	5.49E-07	2.10E-07	< 56.8	< 1.11E-04	< 3.183E-07	< 1.291E-07
++ b-Pinene	18172-67-3	< 1.1	< 2.32E-06	< 6.35E-09	< 2.68E-09	9.1	2.16E-05	5.98E-08	2.66E-08	21.0	3.96E-05	1.16E-07	4.43E-08	< 10.4	< 2.12E-05	< 6.069E-08	< 2.451E-08
++ 1,2,4-Trimethylbenzene	00095-63-6	22.2	4.56E-05	1.26E-07	5.27E-08	41.7	8.47E-05	2.35E-07	1.04E-07	47.8	8.89E-05	2.60E-07	9.94E-08	37.2	7.31E-05	2.065E-07	8.544E-08
++ n-Decane	00124-18-5	16.0	3.27E-05	8.95E-08	3.78E-08	< 1.2	< 2.39E-06	< 6.62E-09	< 2.94E-09	< 1.2	< 2.31E-06	< 6.77E-09	< 2.59E-09	< 8.1	< 1.25E-05	< 3.429E-08	< 1.443E-08
++ p-Cymene	00099-87-6	< 1.1	< 2.29E-06	< 6.26E-09	< 2.64E-09	13.4	3.14E-05	8.70E-08	3.87E-08	12.8	2.47E-05	7.23E-08	2.76E-08	< 9.1	< 1.95E-05	< 5.518E-08	< 2.297E-08
++ d-Limonene	059-27-5	< 1.1	< 2.32E-06	< 6.35E-09	< 2.68E-09	< 1.1	< 2.29E-06	< 6.33E-09	< 2.81E-09	< 1.1	< 2.21E-06	< 6.49E-09	< 2.48E-09	< 1.1	< 2.28E-06	< 6.381E-09	< 2.658E-09
++ 1,4-Diethylbenzene + n-Butylben	00105-05-5, 00104-51-8	< 1.1	< 2.29E-06	< 6.26E-09	< 2.64E-09	145.2	2.93E-04	8.11E-07	3.60E-07	83.7	1.55E-04	4.53E-07	1.73E-07	< 76.7	< 1.50E-04	< 4.234E-07	< 1.787E-07
Total Detected		5217.0	1.09E-02	2.99E-05	1.26E-05	2197.7	4.52E-03	1.25E-05	5.56E-06	2517.4	4.84E-03	1.36E-05	5.19E-06	2989.4	5.87E-03	1.66E-05	6.94E-06
Total with non-detects		< 5920.7	< 1.24E-02	< 3.39E-05	< 1.43E-05	< 3045.5	< 6.23E-03	< 1.73E-05	< 7.66E-06	< 3409.8	< 6.66E-03	< 1.95E-05	< 7.45E-06	< 4125.3	< 8.42E-03	< 2.35E-05	< 9.80E-06

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-21
Extruder EPDM Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³		Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³		Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³		Run 3 Emission Rate lbs/hr
Dichlorodifluoromethane	12.0	12.0	2.54E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Chloromethane	2.9	2.9	6.13E-06	< 8.0	<	1.82E-05	2.6		5.40E-06
Vinyl Chloride	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Chloroethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Bromomethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Acetonitrile	< 16.0	<	3.38E-05	< 16.0	<	3.63E-05	< 16.0	<	3.32E-05
Acrolein	13.0	13.0	2.75E-05	< 16.0	<	3.63E-05	< 16.0	<	3.32E-05
Acetone	< 16.0	<	3.38E-05	31.0		7.04E-05	44.0		9.14E-05
Propylene Oxide	< 16.0	<	3.38E-05	< 16.0	<	3.63E-05	< 16.0	<	3.32E-05
Trichlorofluoromethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Acrylonitrile	< 16.0	<	3.38E-05	< 16.0	<	3.63E-05	< 16.0	<	3.32E-05
1,1-Dichloroethene	3.6	3.6	7.61E-06	3.7		8.40E-06	< 8.0	<	1.66E-05
Methylene Chloride	400.0	400.0	8.46E-04	120.0		2.72E-04	150.0		3.11E-04
Allyl Chloride	< 16.0	<	3.38E-05	< 16.0	<	3.63E-05	< 16.0	<	3.32E-05
Carbon Disulfide	8.0	8.0	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Trichlortrifluoroethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
trans-1,2-Dichloroethene	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
cis-1,2-Dichloroethene	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
1,1-Dichloroethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
t-Butyl Methyl Ether	< 16.0	<	3.38E-05	< 16.0	<	3.63E-05	< 16.0	<	3.32E-05
Vinyl Acetate	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
2-Butanone	19.0	19.0	4.02E-05	5.8		1.32E-05	< 16.0	<	3.32E-05
Chloroform	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
1,2-Dichloroethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
1,1,1-Trichloroethane	17.0	17.0	3.60E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Carbon Tetrachloride	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
1,2-Dichloropropane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Bromodichloromethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
1,4-Dioxane	< 32.0	<	6.77E-05	< 32.0	<	7.26E-05	< 32.0	<	6.64E-05
Trichloroethene	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Epichlorohydrin	< 16.0	<	3.38E-05	< 16.0	<	3.63E-05	< 16.0	<	3.32E-05
cis-1,3-Dichloropropene	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
4-Methyl-2-Pentanone	9.2	9.2	1.95E-05	10.0		2.27E-05	27.0		5.61E-05
trans-1,2-Dichloropropene	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
1,1,2-Trichloroethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Chlorodibromomethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
2-Hexanone	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
1,2-Dibromoethane	< 8.0	<	1.69E-05	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05
Tetrachloroethene	3.5	3.5	7.40E-06	< 8.0	<	1.82E-05	< 8.0	<	1.66E-05

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table L1-21
Extruder EPDM Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Chlorobenzene	< 8.0	< 1.69E-05	< 8.0	< 1.82E-05	< 8.0	< 1.66E-05
Bromoform	< 8.0	< 1.69E-05	< 8.0	< 1.82E-05	< 8.0	< 1.66E-05
1,1,2,2-Tetrachloroethane	< 8.0	< 1.69E-05	< 8.0	< 1.82E-05	< 8.0	< 1.66E-05
Benzyl Chloride	< 16.0	< 3.38E-05	< 16.0	< 3.63E-05	< 16.0	< 3.32E-05
1,3-Dichlorobenzene	< 8.0	< 1.69E-05	< 8.0	< 1.82E-05	< 8.0	< 1.66E-05
1,4-Dichlorobenzene	< 8.0	< 1.69E-05	< 8.0	< 1.82E-05	< 8.0	< 1.66E-05
1,2-Dichlorobenzene	< 8.0	< 1.69E-05	< 8.0	< 1.82E-05	< 8.0	< 1.66E-05
1,2-Dibromo-3-Chloropropane	< 16.0	< 3.38E-05	< 16.0	< 3.63E-05	< 16.0	< 3.32E-05
Hexachlorobutadiene	< 16.0	< 3.38E-05	< 16.0	< 3.63E-05	< 16.0	< 3.32E-05
+ Pentane	40.0	40.0 8.46E-05				
+ Methylpentane	140.0	140.0 2.96E-04				
+ Methycyclopentane	80.0	80.0 1.69E-04				
+ Decane	30.0	30.0 6.35E-05				
+ Undecane	30.0	30.0 6.35E-05				
+ Dodecane	20.0	20.0 4.23E-05				
+ Heptanone		0.0	50.0	1.14E-04		
+ Naphthalene		0.0	100.0	2.27E-04	6.0	1.25E-05
+ C9H10 Alkyl Substituted Benzene		0.0			300.0	6.23E-04
+ Isopropyl Alcohol		0.0			100.0	2.08E-04
++ Ethylene	2.0	2.0 4.20E-06	3.3	7.55E-06	< 0.6	< 1.21E-06
++ Acetylene	2.5	2.5 5.38E-06	< 0.5	< 1.23E-06	2.0	4.16E-06
++ Ethane	4.4	4.4 9.26E-06	4.3	9.80E-06	< 0.6	< 1.30E-06
++ Propylene	9.9	9.9 2.10E-05	4.4	1.01E-05	4.6	9.57E-06
++ Propane	< 0.4	< 8.62E-07	< 0.4	< 9.25E-07	< 0.4	< 8.46E-07
++ Methylacetylene	< 0.4	< 7.64E-07	< 0.4	< 8.20E-07	< 0.4	< 7.50E-07
++ Isobutane	33.8	33.8 7.16E-05	< 0.3	< 6.86E-07	< 0.3	< 6.28E-07
++ Isobutylene + 1-Butene	35.6	35.6 7.53E-05	7.6	1.72E-05	< 0.3	< 6.06E-07
++ 1,3-Butadiene	< 0.3	< 5.95E-07	< 0.3	< 6.38E-07	3.5	7.24E-06
++ n-Butane	23.6	23.6 4.99E-05	8.5	1.92E-05	4.0	8.28E-06
++ trans-2-Butene	< 0.3	< 6.17E-07	< 0.3	< 6.62E-07	< 0.3	< 6.06E-07
++ 2,2-Dimethylpropane	< 0.2	< 5.08E-07	< 0.2	< 5.45E-07	< 0.2	< 4.99E-07
++ Ethylacetylene	< 0.3	< 5.95E-07	< 0.3	< 6.38E-07	< 0.3	< 5.84E-07
++ cis-2-Butene	< 0.3	< 6.17E-07	< 0.3	< 6.62E-07	< 0.3	< 6.06E-07
++ Isopentane	498.2	498.2 1.05E-03	126.1	2.86E-04	60.0	1.25E-04
++ 1-Pentene	< 0.2	< 4.94E-07	< 0.2	< 5.30E-07	26.8	5.57E-05
++ 2-Methyl-1-butene	< 0.2	< 4.94E-07	< 0.2	< 5.30E-07	< 0.2	< 4.85E-07

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table L1-21
Extruder EPDM Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
++ n-Pentane	27.6	27.6 5.84E-05	2.6	6.00E-06	4.2	8.73E-06
++ Isoprene	2.4	2.4 5.03E-06	< 0.2	< 5.15E-07	3.5	7.30E-06
++ trans-2-Pentene	< 0.2	< 4.94E-07	< 0.2	< 5.30E-07	< 0.2	< 4.85E-07
++ cis-2-Pentene	70.0	70.0 1.48E-04	87.5	1.99E-04	22.2	4.60E-05
++ 2-Methyl-2-butene	< 0.2	< 4.94E-07	< 0.2	< 5.30E-07	< 0.2	< 4.85E-07
++ 2,2-Dimethylbutane	2.6	2.6 5.56E-06	3.0	6.78E-06	< 0.2	< 4.14E-07
++ Cyclopentene	1.6	1.6 3.36E-06	< 0.2	< 5.15E-07	< 0.2	< 4.71E-07
++ 4-Methyl-1-pentene	< 0.2	< 4.11E-07	< 0.2	< 4.42E-07	< 0.2	< 4.04E-07
++ Cyclopentane + 2,3-Dimethylbutane	14.3	14.3 3.03E-05	4.7	1.06E-05	2.9	6.08E-06
++ 2-Methylpentane	49.0	49.0 1.04E-04	4.7	1.07E-05	2.2	4.59E-06
++ 3-Methylpentane	57.4	57.4 1.21E-04	7.8	1.76E-05	2.3	4.71E-06
++ 1-Hexene	< 0.2	< 4.11E-07	< 0.2	< 4.42E-07	< 0.2	< 4.04E-07
++ n-Hexane	161.3	161.3 3.41E-04	35.2	8.00E-05	15.5	3.23E-05
++ trans-2-Hexene	< 0.2	< 4.11E-07	< 0.2	< 4.42E-07	< 0.2	< 4.04E-07
++ 2-Methyl-2-pentene	< 0.2	< 4.11E-07	< 0.2	< 4.42E-07	< 0.2	< 4.04E-07
++ cis-2-Hexene	2.7	2.7 5.68E-06	< 0.2	< 4.42E-07	< 0.2	< 4.04E-07
++ Methylcyclopentane	64.2	64.2 1.36E-04	28.0	6.36E-05	5.8	1.21E-05
++ Benzene	8.1	8.1 1.72E-05	6.5	1.48E-05	1.7	3.49E-06
++ Cyclohexane	12.8	12.8 2.72E-05	1.6	3.71E-06	< 0.2	< 4.04E-07
++ 2-Methylhexane	3.6	3.6 7.56E-06	< 0.2	< 3.86E-07	< 0.2	< 3.53E-07
++ 2,3-Dimethylpentane	2.3	2.3 4.79E-06	< 0.2	< 3.86E-07	< 0.2	< 3.53E-07
++ 3-Methylhexane	4.3	4.3 9.19E-06	< 0.2	< 3.86E-07	< 0.2	< 3.53E-07
++ 1-Heptene	< 0.2	< 3.53E-07	< 0.2	< 3.78E-07	< 0.2	< 3.46E-07
++ Isooctane	6.5	6.5 1.38E-05	1.6	3.64E-06	< 0.1	< 3.08E-07
++ n-Heptane	4.2	4.2 8.94E-06	< 0.2	< 3.86E-07	< 0.2	< 3.53E-07
++ Methylcyclohexane	7.0	7.0 1.48E-05	< 0.2	< 3.78E-07	< 0.2	< 3.46E-07
++ 2,4-Dimethylhexane	< 0.1	< 3.14E-07	< 0.1	< 3.37E-07	< 0.1	< 3.08E-07
++ 2,3,4-Trimethylpentane	< 0.1	< 3.14E-07	< 0.1	< 3.37E-07	< 0.1	< 3.08E-07
++ Toluene	186.2	186.2 3.94E-04	24.6	5.59E-05	7.7	1.59E-05
++ 2-Methylheptane	< 0.1	< 3.14E-07	< 0.1	< 3.37E-07	< 0.1	< 3.08E-07
++ 1-Octene	< 0.1	< 3.09E-07	< 0.1	< 3.31E-07	< 0.1	< 3.03E-07
++ n-Octane	1.4	1.4 3.02E-06	< 0.1	< 3.37E-07	< 0.1	< 3.08E-07
++ Ethylbenzene	4.1	4.1 8.64E-06	1.8	4.14E-06	< 0.1	< 2.87E-07
++ m-Xylene + p-Xylene	19.3	19.3 4.09E-05	12.7	2.88E-05	2.5	5.27E-06
++ Styrene	< 0.1	< 2.86E-07	3.7	8.48E-06	< 0.1	< 2.81E-07
++ o-Xylene	8.3	8.3 1.75E-05	7.7	1.75E-05	< 0.1	< 2.87E-07
++ n-Nonane	2.5	2.5 5.39E-06	1.9	4.31E-06	< 0.1	< 2.74E-07
++ Cumene	32.2	32.2 6.82E-05	227.8	5.17E-04	36.7	7.61E-05
++ a-Pinene	< 0.1	< 2.40E-07	4.3	9.78E-06	< 0.1	< 2.35E-07
++ n-Propylbenzene	< 0.1	< 2.61E-07	< 0.1	< 2.80E-07	< 0.1	< 2.56E-07
++ m-Ethyltoluene	< 0.1	< 2.61E-07	10.0	2.27E-05	3.3	6.81E-06
++ p-Ethyltoluene	4.4	4.4 9.28E-06	3.4	7.82E-06	< 0.1	< 2.56E-07
++ 1,3,5-Trimethylbenzene	< 0.6	< 1.31E-06	< 0.6	< 1.40E-06	< 0.6	< 1.28E-06
++ o-Ethyltoluene	< 0.6	< 1.31E-06	32.2	7.31E-05	55.6	1.15E-04
++ b-Pinene	< 0.6	< 1.20E-06	9.1	2.06E-05	< 0.6	< 1.18E-06
++ 1,2,4-Trimethylbenzene	11.7	11.7 2.47E-05	22.2	5.04E-05	< 0.6	< 1.28E-06
++ n-Decane	7.7	7.7 1.63E-05	< 0.6	< 1.34E-06	< 0.6	< 1.23E-06
++ p-Cymene	< 0.6	< 1.18E-06	13.4	3.04E-05	< 0.6	< 1.16E-06
++ d-Limonene	< 0.6	< 1.20E-06	< 0.6	< 1.29E-06	< 0.6	< 1.18E-06
++ 1,4-Diethylbenzene + n-Butylbenzene	< 0.6	< 1.18E-06	72.6	1.65E-04	< 0.6	< 1.16E-06
Total Detected	2218.0	4.69E-03	1105.5	2.51E-03	896.6	1.86E-03
Total with non-detects	< 2634.6	< 5.57E-03	< 1562.5	< 3.55E-03	< 1373.4	< 2.85E-03

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-22
Extruder EPDM Location B Speciated Volatiles

Compound	Run 1		Run 2		Run 3	
	Concentration µg/m³	Emission Rate lbs/hr	Concentration µg/m³	Emission Rate lbs/hr	Concentration µg/m³	Emission Rate lbs/hr
Dichlorodifluoromethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Chloromethane	3.4	6.75E-06	< 8.0	< 1.41E-05	2.7	4.95E-06
Vinyl Chloride	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Chloroethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Bromomethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Acetonitrile	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
Acrolein	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
Acetone	29.0	5.76E-05	59.0	1.04E-04	47.0	8.61E-05
Propylene Oxide	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
Trichlorofluoromethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Acrylonitrile	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
1,1-Dichloroethene	< 8.0	< 1.59E-05	6.6	1.16E-05	< 8.0	< 1.47E-05
Methylene Chloride	490.0	9.73E-04	130.0	2.29E-04	150.0	2.75E-04
Allyl Chloride	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
Carbon Disulfide	5.7	1.13E-05	5.3	9.35E-06	13.0	2.38E-05
Trichlortrifluoroethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
trans-1,2-Dichloroethene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
cis-1,2-Dichloroethene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,1-Dichloroethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
t-Butyl Methyl Ether	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
Vinyl Acetate	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
2-Butanone	5.6	1.11E-05	7.3	1.29E-05	6.6	1.21E-05
Chloroform	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,2-Dichloroethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,1,1-Trichloroethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Carbon Tetrachloride	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,2-Dichloropropane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Bromodichloromethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,4-Dioxane	32.0	6.35E-05	< 32.0	< 5.65E-05	< 32.0	< 5.86E-05
Trichloroethene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Epichlorohydrin	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
cis-1,3-Dichloropropene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
4-Methyl-2-Pentanone	< 32.0	< 6.35E-05	73.0	1.29E-04	< 8.0	< 1.47E-05
trans-1,2-Dichloropropene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,1,2-Trichloroethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Chlorodibromomethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
2-Hexanone	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,2-Dibromoethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Tetrachloroethene	< 8.0	< 1.59E-05	3.3	5.82E-06	< 8.0	< 1.47E-05

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-22
Extruder EPDM Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Chlorobenzene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Bromoform	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,1,2,2-Tetrachloroethane	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
Benzyl Chloride	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
1,3-Dichlorobenzene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,4-Dichlorobenzene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,2-Dichlorobenzene	< 8.0	< 1.59E-05	< 8.0	< 1.41E-05	< 8.0	< 1.47E-05
1,2-Dibromo-3-Chloropropane	< 16.0	< 3.18E-05	< 16.0	< 2.82E-05	< 16.0	< 2.93E-05
Hexachlorobutadiene	32.0	6.35E-05	35.0	6.18E-05	< 16.0	< 2.93E-05
+ Isopropyl Alcohol	40.0	7.94E-05				
+ Pyridine	80.0	1.59E-04				
+ C9H12 Cyclic Hydrocarbon	200.0	3.97E-04	20.0	3.53E-05	20.0	3.66E-05
+ C9H10 Alkyl Substituted Benzene	40.0	7.94E-05	40.0	7.06E-05	50.0	9.16E-05
+ C11-C12 Branched Alkane	200.0	3.97E-04			300.0	5.50E-04
+ Naphthalene	300.0	5.96E-04	10.0	1.76E-05		
+ Heptanone			60.0	1.06E-04		
+ Isobutyraldehyde					40.0	7.33E-05
+ Butanal					100.0	1.83E-04
+ Isobutanol					40.0	7.33E-05
+ 1-Butanol					60.0	1.10E-04
+ Ethylhehenal					60.0	1.10E-04
++ Ethylene	3.3	6.49E-06	< 0.6	< 1.03E-06	< 0.6	< 1.07E-06
++ Acetylene	2.5	5.05E-06	< 0.5	< 9.56E-07	< 0.5	< 9.92E-07
++ Ethane	4.4	8.82E-06	< 0.6	< 1.10E-06	3.3	5.96E-06
++ Propylene	8.8	1.74E-05	< 0.4	< 6.86E-07	< 0.4	< 7.13E-07
++ Propane	< 0.4	< 8.09E-07	< 0.4	< 7.19E-07	3.7	6.83E-06
++ Methylacetylene	< 0.4	< 7.17E-07	< 0.4	< 6.37E-07	< 0.4	< 6.61E-07
++ Isobutane	38.7	7.68E-05	< 0.3	< 5.33E-07	2.0	3.65E-06
++ Isobutylene + 1-Butene	36.2	7.18E-05	4.6	8.03E-06	3.2	5.88E-06
++ 1,3-Butadiene	< 0.3	< 5.58E-07	11.8	2.08E-05	18.0	3.30E-05
++ n-Butane	21.2	4.20E-05	7.9	1.39E-05	9.7	1.77E-05
++ trans-2-Butene	< 0.3	< 5.79E-07	< 0.3	< 5.15E-07	< 0.3	< 5.34E-07
++ 2,2-Dimethylpropane	< 0.2	< 4.77E-07	< 0.2	< 4.24E-07	< 0.2	< 4.40E-07
++ Ethylacetylene	< 0.3	< 5.58E-07	< 0.3	< 4.96E-07	< 0.3	< 5.15E-07
++ cis-2-Butene	< 0.3	< 5.79E-07	< 0.3	< 5.15E-07	< 0.3	< 5.34E-07
++ Isopentane	540.2	1.07E-03	51.0	9.00E-05	49.8	9.13E-05
++ 1-Pentene	< 0.2	< 4.63E-07	< 0.2	< 4.12E-07	< 0.2	< 4.28E-07
++ 2-Methyl-1-butene	< 0.2	< 4.63E-07	< 0.2	< 4.12E-07	< 0.2	< 4.28E-07
++ n-Pentane	30.0	5.96E-05	3.8	6.78E-06	2.8	5.17E-06
++ Isoprene	2.8	5.51E-06	2.8	4.90E-06	2.4	4.36E-06

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-22
Extruder EPDM Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
++ trans-2-Pentene	< 0.2	< 4.63E-07	< 0.2	< 4.12E-07	< 0.2	< 4.28E-07
++ cis-2-Pentene	81.7	1.62E-04	20.4	3.60E-05	< 0.2	< 4.28E-07
++ 2-Methyl-2-butene	< 0.2	< 4.63E-07	< 0.2	< 4.12E-07	22.8	4.17E-05
++ 2,2-Dimethylbutane	3.2	6.29E-06	1.9	3.27E-06	3.2	5.91E-06
++ Cyclopentene	< 0.2	< 4.50E-07	< 0.2	< 4.00E-07	< 0.2	< 4.15E-07
++ 4-Methyl-1-pentene	< 0.2	< 3.86E-07	< 0.2	< 3.43E-07	3.2	5.77E-06
++ Cyclopentane + 2,3-Dimethylbutane	18.9	3.74E-05	2.3	4.13E-06	3.6	6.67E-06
++ 2-Methylpentane	58.0	1.15E-04	4.4	7.70E-06	4.2	7.66E-06
++ 3-Methylpentane	65.7	1.30E-04	7.2	1.26E-05	7.8	1.42E-05
++ 1-Hexene	< 0.2	< 3.86E-07	< 0.2	< 3.43E-07	< 0.2	< 3.56E-07
++ n-Hexane	185.2	3.68E-04	27.5	4.85E-05	23.3	4.27E-05
++ trans-2-Hexene	< 0.2	< 3.86E-07	< 0.2	< 3.43E-07	< 0.2	< 3.56E-07
++ 2-Methyl-2-pentene	< 0.2	< 3.86E-07	< 0.2	< 3.43E-07	< 0.2	< 3.56E-07
++ cis-2-Hexene	6.4	1.27E-05	< 0.2	< 3.43E-07	12.3	2.24E-05
++ Methylcyclopentane	70.0	1.39E-04	26.8	4.74E-05	23.3	4.28E-05
++ Benzene	7.6	1.51E-05	4.5	8.03E-06	11.9	2.18E-05
++ Cyclohexane	11.7	2.32E-05	1.7	2.99E-06	< 0.2	< 3.56E-07
++ 2-Methylhexane	1.3	2.60E-06	< 0.2	< 3.00E-07	< 0.2	< 3.12E-07
++ 2,3-Dimethylpentane	< 0.2	< 3.38E-07	< 0.2	< 3.00E-07	< 0.2	< 3.12E-07
++ 3-Methylhexane	6.0	1.18E-05	< 0.2	< 3.00E-07	< 0.2	< 3.12E-07
++ 1-Heptene	< 0.2	< 3.31E-07	< 0.2	< 2.94E-07	< 0.2	< 3.05E-07
++ Isooctane	3.8	7.55E-06	< 0.1	< 2.62E-07	< 0.1	< 2.72E-07
++ n-Heptane	5.0	9.93E-06	< 0.2	< 3.00E-07	5.0	9.16E-06
++ Methylcyclohexane	7.6	1.51E-05	< 0.2	< 2.94E-07	< 0.2	< 3.05E-07
++ 2,4-Dimethylhexane	< 0.1	< 2.95E-07	< 0.1	< 2.62E-07	< 0.1	< 2.72E-07
++ 2,3,4-Trimethylpentane	< 0.1	< 2.95E-07	< 0.1	< 2.62E-07	< 0.1	< 2.72E-07
++ Toluene	213.5	4.24E-04	30.1	5.31E-05	18.6	3.41E-05
++ 2-Methylheptane	< 0.1	< 2.95E-07	< 0.1	< 2.62E-07	< 0.1	< 2.72E-07
++ 1-Octene	< 0.1	< 2.90E-07	< 0.1	< 2.57E-07	< 0.1	< 2.67E-07
++ n-Octane	2.5	4.95E-06	< 0.1	< 2.62E-07	2.3	4.24E-06
++ Ethylbenzene	5.0	9.97E-06	3.0	5.36E-06	2.4	4.35E-06
++ m-Xylene + p-Xylene	19.9	3.95E-05	16.0	2.82E-05	12.1	2.22E-05
++ Styrene	< 0.1	< 2.69E-07	3.8	6.69E-06	5.0	9.23E-06
++ o-Xylene	6.6	1.32E-05	9.4	1.66E-05	8.8	1.62E-05
++ n-Nonane	2.7	5.30E-06	< 0.1	< 2.32E-07	2.4	4.34E-06
++ Cumene	34.4	6.84E-05	244.4	4.31E-04	227.8	4.17E-04
++ a-Pinene	< 0.1	< 2.25E-07	3.1	5.50E-06	5.2	9.45E-06
++ n-Propylbenzene	< 0.1	< 2.45E-07	< 0.1	< 2.18E-07	3.1	5.60E-06
++ m-Ethyltoluene	10.6	2.10E-05	< 0.1	< 2.18E-07	12.2	2.24E-05
++ p-Ethyltoluene	< 0.1	< 2.45E-07	16.7	2.94E-05	4.2	7.63E-06
++ 1,3,5-Trimethylbenzene	7.2	1.43E-05	6.7	1.18E-05	7.2	1.32E-05
++ o-Ethyltoluene	< 0.6	< 1.23E-06	38.9	6.86E-05	39.4	7.23E-05
++ b-Pinene	< 0.6	< 1.13E-06	< 0.6	< 1.00E-06	21.0	3.84E-05
++ 1,2,4-Trimethylbenzene	10.6	2.10E-05	19.4	3.43E-05	47.8	8.75E-05
++ n-Decane	8.3	1.65E-05	< 0.6	< 1.04E-06	< 0.6	< 1.08E-06
++ p-Cymene	< 0.6	< 1.11E-06	< 0.6	< 9.85E-07	12.8	2.35E-05
++ d-Limonene	< 0.6	< 1.13E-06	< 0.6	< 1.00E-06	< 0.6	< 1.04E-06
++ 1,4-Diethylbenzene + n-Butylbenzene	< 0.6	< 1.11E-06	72.6	1.28E-04	83.7	1.53E-04
Total Detected	2999.0	5.95E-03	1092.2	1.93E-03	1620.8	2.97E-03
Total with non-detects	< 3431.3	< 6.81E-03	< 1519.2	< 2.68E-03	< 2076.4	< 6.77E-03

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-23

Extruder Tread Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Dichlorodifluoromethane	75-71-8	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	5.2	2.76E-05	8.38E-08	3.40E-08	12.5	2.59E-05	7.73E-08	3.71E-08	< 11.2	< 2.88E-05	< 8.689E-08	< 3.799E-08
Chloromethane	74-87-3	6.2	2.91E-05	8.82E-08	3.80E-08	3.8	2.43E-05	7.38E-08	2.99E-08	6.0	1.24E-05	3.72E-08	1.78E-08	5.3	2.19E-05	6.639E-08	2.859E-08
Vinyl Chloride	75-01-4	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
Chloroethane	75-00-3	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
Bromomethane	74-83-9	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
Acetonitrile	1722-08-4	73.0	1.83E-04	5.55E-07	2.39E-07	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 45.7	< 1.05E-04	< 3.186E-07	< 1.368E-07
Acrolein	107-02-8	70.0	1.77E-04	5.36E-07	2.31E-07	16.0	8.48E-05	1.97E-07	7.98E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	39.0	< 1.03E-04	< 3.103E-07	< 1.353E-07
Acetone	67-64-1	678.0	1.19E-03	3.61E-06	1.56E-06	129.0	2.70E-04	8.20E-07	3.32E-07	156.0	3.23E-04	9.63E-07	4.62E-07	297.7	5.94E-04	1.797E-06	7.833E-07
Propylene Oxide	75-56-9	810.0	1.70E-03	5.15E-06	2.22E-06	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 291.3	< 6.11E-04	< 1.852E-06	< 8.003E-07
Trichlorofluoromethane	75-69-4	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	11.0	3.97E-05	1.21E-07	4.89E-08	20.0	4.14E-05	1.24E-07	5.93E-08	< 15.7	< 3.90E-05	< 1.146E-07	< 5.035E-08
Acrylonitrile	107-13-1	< 32.0	< 6.56E-05	< 1.99E-07	< 8.58E-08	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 32.0	< 6.62E-05	< 2.000E-07	< 8.767E-08
1,1-Dichloroethene	75-35-4	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
Methylene Chloride	75-09-2	1000.0	2.06E-03	6.21E-06	2.68E-06	3000.0	6.27E-03	1.91E-05	7.72E-06	2310.0	4.76E-03	1.43E-05	6.84E-06	2103.3	4.37E-03	0.00001318	5.748E-06
Allyl Chloride	107-05-1	< 32.0	< 6.56E-05	< 1.99E-07	< 8.58E-08	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 32.0	< 6.62E-05	< 2.000E-07	< 8.767E-08
Carbon Disulfide	75-15-0	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	7.8	3.30E-05	1.00E-07	4.07E-08	97.0	2.00E-04	6.97E-07	2.86E-07	< 40.3	< 8.96E-05	< 2.657E-07	< 1.233E-07
Trichlorotrifluoroethane	76-13-1	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
trans-1,2-Dichloroethene	156-60-5	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
cis-1,2-Dichloroethene	156-59-2	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
1,1-Dichloroethane	75-34-3	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
t-Butyl Methyl Ether	1634-04-4	< 32.0	< 6.56E-05	< 1.99E-07	< 8.58E-08	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 32.0	< 6.62E-05	< 2.000E-07	< 8.767E-08
Vinyl Acetate	108-05-4	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
2-Butanone	78-93-3	21.1	4.33E-05	1.31E-07	5.67E-08	6.0	4.61E-05	1.40E-07	5.67E-08	12.8	2.67E-05	7.99E-08	3.83E-08	13.3	3.87E-05	1.171E-07	5.058E-08
n-Hexane	110-54-3	0.0	3.28E-05	9.94E-08	4.29E-08	3.1	6.45E-06	1.96E-08	7.94E-09	0.0	1.85E-05	4.92E-08	2.36E-08	1.0	1.86E-05	5.605E-08	2.479E-08
Chloroform	67-66-3	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
1,2-Dichloroethane	107-06-3	< 16.0	< 3.34E-05	< 1.01E-07	< 4.37E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.33E-05	< 1.008E-07	< 4.411E-08
1,1,1-Trichloroethane	71-55-6	16.5	3.32E-05	1.01E-07	4.34E-08	4.5	2.62E-05	7.95E-08	3.22E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 12.3	< 3.08E-05	< 9.305E-08	< 4.103E-08
Carbon Tetrachloride	56-23-5	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
1,2-Dichloropropane	78-87-5	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
Bromodichloromethane	75-27-4	< 16.0	< 8.21E-05	< 2.49E-07	< 1.08E-07	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 4.96E-05	< 1.499E-07	< 6.538E-08
1,4-Dioxane	123-91-1	< 64.0	< 8.17E-05	< 2.48E-07	< 1.07E-07	< 64.0	< 1.34E-04	< 4.07E-07	< 1.65E-07	< 64.0	< 1.33E-04	< 3.96E-07	< 1.90E-07	< 64.0	< 1.16E-04	< 3.501E-07	< 1.538E-07
Trichloroethene	79-01-6	< 16.0	< 4.92E-05	< 1.49E-07	< 6.44E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.86E-05	< 1.167E-07	< 5.102E-08
Epichlorohydrin	106-89-8	< 32.0	< 4.91E-05	< 1.49E-07	< 6.42E-08	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 32.0	< 6.08E-05	< 1.834E-07	< 8.049E-08
cis-1,3-Dichloropropene	1006-01-5	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
4-Methyl-2-Pentanone	108-10-1	72.0	1.63E-04	4.95E-07	2.14E-07	600.0	1.26E-03	3.83E-06	1.55E-06	588.0	1.22E-03	3.68E-06	1.75E-06	420.0	8.63E-04	2.660E-06	1.173E-06
trans-1,2-Dichloropropene	1006-02-6	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
1,1,2-Trichloroethane	79-00-5	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
Chlorodibromomethane	124-48-1	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
2-Hexanone	591-78-6	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
1,2-Dibromoethane	106-93-4	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
Tetrachloroethene	127-18-4	5.4	2.76E-05	8.33E-08	3.60E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 12.5	< 3.14E-05	< 9.485E-08	< 4.152E-08

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-23

Extruder Tread Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
Chlorobenzene	108-90-7	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
Bromoform	75-25-2	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
1,1,2,2-Tetrachloroethane	79-34-5	< 16.0	< 4.92E-05	< 1.49E-07	< 6.44E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.86E-05	< 1.167E-07	< 5.102E-08
Benzyl Chloride	100-44-7	< 32.0	< 4.91E-05	< 1.49E-07	< 6.42E-08	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 32.0	< 6.08E-05	< 1.834E-07	< 8.049E-08
1,3-Dichlorobenzene	541-34-5	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
1,4-Dichlorobenzene	106-73-1	< 16.0	< 3.28E-05	< 9.94E-08	< 4.29E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.31E-05	< 1.000E-07	< 4.384E-08
1,2-Dichlorobenzene	95-50-1	< 16.0	< 4.92E-05	< 1.49E-07	< 6.44E-08	< 16.0	< 3.35E-05	< 1.02E-07	< 4.12E-08	< 16.0	< 3.32E-05	< 9.90E-08	< 4.74E-08	< 16.0	< 3.86E-05	< 1.167E-07	< 5.102E-08
1,2-Dibromo-3-Chloropropane	96-12-8	< 32.0	< 8.55E-05	< 1.99E-07	< 8.58E-08	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 32.0	< 6.62E-05	< 2.000E-07	< 8.787E-08
Hexachlorobutadiene	87-68-3	< 32.0	< 3.28E-05	< 9.90E-08	< 4.27E-08	< 32.0	< 6.69E-05	< 2.03E-07	< 8.23E-08	< 32.0	< 6.63E-05	< 1.98E-07	< 9.49E-08	< 32.0	< 5.53E-05	< 1.687E-07	< 7.331E-08
+ C9H12 Alkyl Substituted Benzene		140.0	2.87E-04	8.71E-07	3.76E-07	200.0	4.20E-04	1.28E-06	5.17E-07	500.0	1.04E-03	3.11E-06	1.49E-06	280.0	5.83E-04	1.754E-06	7.952E-07
+ Butane	106-97-8	0.0	0.00E+00	0.00E+00	0.00E+00	40.0	8.32E-05	2.53E-07	1.02E-07	30.0	6.17E-05	1.84E-07	8.83E-08	23.3	4.83E-05	1.457E-07	6.357E-08
+ Undecane	1120-21-4	0.0	0.00E+00	0.00E+00	0.00E+00	50.0	1.04E-04	3.16E-07	1.28E-07	0.0	0.00E+00	0.00E+00	0.00E+00	16.7	3.47E-05	1.053E-07	4.267E-08
+ Dodecane	112-40-3	0.0	0.00E+00	0.00E+00	0.00E+00	120.0	2.51E-04	7.62E-07	3.09E-07	20.0	4.12E-05	1.23E-07	5.89E-08	46.7	9.73E-05	2.948E-07	1.225E-07
+ Propane	115-07-1	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	50.0	1.03E-04	3.08E-07	1.47E-07	16.7	3.43E-05	1.025E-07	4.914E-08
+ Isopropyl Alcohol	67-63-0	200.0	4.11E-04	1.25E-06	5.39E-07	40.0	8.41E-05	2.55E-07	1.03E-07	500.0	1.03E-03	3.08E-06	1.47E-06	246.7	5.08E-04	1.526E-06	7.054E-07
+ Heptanone		0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	80.0	1.66E-04	4.95E-07	2.37E-07	26.7	5.53E-05	1.650E-07	7.908E-08
+ Naphthalene	91-20-5	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	20.0	4.12E-05	1.23E-07	5.90E-08	6.7	1.37E-05	4.100E-08	1.965E-08
+ Nitromethane	75-52-5	70.0	1.44E-04	4.37E-07	1.88E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	23.3	4.80E-05	1.46E-07	6.29E-08
+ Isobutyraldehyde	78-84-2	100.0	2.06E-04	6.24E-07	2.69E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	33.3	6.86E-05	2.08E-07	8.98E-08
+ Butanol	71-36-3	300.0	6.17E-04	1.87E-06	8.08E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	100.0	2.06E-04	6.24E-07	2.69E-07
+ C11-C12 Branched Alkane		200.0	4.11E-04	1.25E-06	5.39E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	66.7	1.37E-04	4.16E-07	1.80E-07
+ C10H18 Cyclic Hydrocarbon		0.0	0.00E+00	0.00E+00	0.00E+00	90.0	1.89E-04	5.75E-07	2.33E-07	100.0	2.09E-04	6.23E-07	2.99E-07	63.3	1.33E-04	3.992E-07	1.771E-07
+ Cyclohexanone	108-94-1	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	60.0	1.25E-04	3.74E-07	1.79E-07	20.0	4.17E-05	1.248E-07	5.972E-08
+ Propylbenzene		0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	60.0	1.25E-04	3.74E-07	1.79E-07	20.0	4.17E-05	1.248E-07	5.972E-08
+ Decane	124-18-5	0.0	0.00E+00	0.00E+00	0.00E+00	10.0	2.08E-05	6.32E-08	2.56E-08	0.0	0.00E+00	0.00E+00	0.00E+00	3.3	6.93E-06	2.11E-08	8.53E-09
+ Isobutanol	78-83-1	200.0	4.11E-04	1.25E-06	5.39E-07	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	66.7	1.37E-04	4.16E-07	1.80E-07
+ 1-Butanol	00071-36-3	400.0	8.23E-04	2.50E-06	1.08E-06	0.0	0.00E+00	0.00E+00	0.00E+00	0.0	0.00E+00	0.00E+00	0.00E+00	133.3	2.74E-04	8.32E-07	3.59E-07
++ Ethylene	00074-85-1	< 1.2	< 2.39E-06	< 7.25E-09	< 3.13E-09	28.0	5.96E-05	1.78E-07	7.21E-08	28.0	5.80E-05	1.73E-07	8.31E-08	< 19.1	< 3.97E-05	< 1.195E-07	< 5.275E-08
++ Acetylene	00074-86-2	1.4	3.97E-06	1.18E-08	5.07E-09	39.5	8.27E-05	2.51E-07	1.02E-07	34.1	7.07E-05	2.11E-07	1.01E-07	25.0	5.24E-05	1.580E-07	6.934E-08
++ Ethane	00074-84-0	3.9	9.19E-06	2.79E-08	1.20E-08	19.4	4.05E-05	1.23E-07	4.99E-08	14.4	2.99E-05	8.90E-08	4.27E-08	12.5	2.65E-05	7.999E-08	3.485E-08
++ Propylene	00115-07-1	5.1	1.12E-05	3.41E-08	1.47E-08	17.5	3.66E-05	1.11E-07	4.51E-08	20.4	4.23E-05	1.26E-07	6.05E-08	14.3	3.00E-05	9.050E-08	4.008E-08
++ Propane		16.5	3.38E-05	1.03E-07	4.43E-08	727.6	1.52E-03	4.62E-06	1.87E-06	605.3	1.25E-03	3.78E-06	1.80E-06	449.8	8.37E-04	2.523E-06	1.237E-06
++ Methylacetylene	00074-99-7	< 0.7	< 1.48E-06	< 4.49E-09	< 1.94E-09	< 0.7	< 1.51E-06	< 4.59E-09	< 1.86E-09	< 0.7	< 1.50E-06	< 4.47E-09	< 2.14E-09	< 0.7	< 1.49E-06	< 4.513E-09	< 1.978E-09
++ Isobutane	00075-28-5	2.2	5.06E-06	1.53E-08	6.62E-09	105.8	2.22E-04	6.74E-07	2.73E-07	33.2	6.90E-05	2.08E-07	9.88E-08	47.1	9.87E-05	2.986E-07	1.262E-07
++ Isobutylene + 1-Butene	00115-11-7, 00106-98-9	5.8	1.26E-05	3.82E-08	1.65E-08	8.8	1.88E-05	5.72E-08	2.32E-08	< 0.6	< 1.21E-06	< 3.61E-09	< 1.73E-09	< 5.1	< 1.09E-05	< 3.300E-08	< 1.379E-08
++ 1,3-Butadiene		29.3	5.99E-05	1.92E-07	7.94E-08	67.6	1.42E-04	4.33E-07	1.75E-07	146.3	3.03E-04	9.04E-07	4.33E-07	81.0	1.68E-04	5.061E-07	2.290E-07
++ n-Butane	00106-97-8	12.7	2.60E-05	7.88E-08	3.40E-08	60.4	1.26E-04	3.84E-07	1.56E-07	< 0.6	< 1.25E-06	< 3.74E-09	< 1.79E-09	< 24.6	< 5.12E-05	< 1.556E-07	< 6.377E-08
++ trans-2-Butene	000624-64-6	1.8	4.31E-06	1.31E-08	5.65E-09	< 0.6	< 1.22E-06	< 3.71E-09	< 1.50E-09	< 0.6	< 1.21E-06	< 3.61E-09	< 1.73E-09	< 1.0	< 2.25E-06	< 6.803E-09	< 2.960E-09
++ 2,2-Dimethylpropane	00463-82-1	< 0.5	< 9.83E-07	< 2.98E-09	< 1.29E-09	< 0.5	< 1.00E-06	< 3.05E-09	< 1.24E-09	< 0.5	< 9.95E-07	< 2.97E-09	< 1.42E-09	< 0.5	< 9.94E-07	< 3.002E-09	< 1.316E-09
++ Ethylacetylene	00107-00-6	< 0.6	< 1.15E-06	< 3.49E-09	< 1.51E-09	< 0.6	< 1.18E-06	< 3.57E-09	< 1.45E-09	< 0.6	< 1.17E-06	< 3.48E-09	< 1.67E-09	< 0.6	< 1.16E-06	< 3.516E-09	< 1.541E-09
++ cis-2-Butene	00590-18-1	< 0.6	< 1.19E-06	< 3.63E-09	< 1.56E-09	< 0.6	< 1.22E-06	< 3.71E-09	< 1.50E-09	< 0.6	< 1.21E-06	< 3.61E-09	< 1.73E-09	< 0.6	< 1.21E-06	< 3.647E-09	< 1.599E-09
++ Isopentane	00078-78-4	368.2	7.52E-04	2.28E-06	9.84E-07	114.0	2.38E-04	7.22E-07	2.93E-07	126.1	2.64E-04	7.87E-07	3.77E-07	202.1	4.18E-04	1.263E-06	5.513E-07
++ 1-Pentene	00109-67-1	40.8	8.45E-05	2.56E-07	1.11E-07	49.0	1.03E-04	3.14E-07	1.27E-07	239.2	4.93E-04	1.47E-06	7.05E-07	109.7	2.27E-04	6.807E-07	3.144E-07
++ 2-Methyl-1-butene	00563-46-2	< 0.5	< 9.56E-07	< 2.90E-09	< 1.25E-09	15.8	3.36E-05	1.02E-07	4.13E-08	28.0	5.81E-05	1.74E-07	8.32E-08	< 14.7	< 3.09E-05	< 9.283E-08	< 4.192E-08
++ n-Pentane	00109-66-0	3.4	7.34E-06	2.23E-08	9.62E-09	10.8	2.30E-05	6.98E-08	2.83E-08	7.2	1.55E-05	4.63E-08	2.22E-08	7.1	1.53E-05	4.615E-08	2.004E-08
++ Isoprene	00078-79-5	5.4	1.11E-05	3.38E-08	1.46E-08	34.6	7.23E-05	2.20E-07	8.90E-08	35.1	7.26E-05	2.17E-07	1.04E-07	25.0	5.20E-05	1.567E-07	6.816E-08
++ trans-2-Pentene	000646-04-8	< 0.5	< 9.56E-07	< 2.90E-09	< 1.25E-09	< 0.5	< 9.76E-07	< 2.97E-09	< 1.20E-09	< 0.5	< 9.67E-07	< 2.89E-09	< 1.38E-09	< 0.5	< 9.66E-07	< 2.918E-09	< 1.279E-09
++ cis-2-Pentene	000627-20-3	< 0.6	< 9.56E-07	< 2.90E-09	< 1.25E-09	554.3	1.17E-03	3.54E-06	1.43E-06	816.9	1.69E-03	5.05E-06	2.42E-06	< 457.2	< 9.52E-04	< 2.863E-06	< 1.265E-06
++ 2-Methyl-2-butene	00513-35-9	169.2	3.47E-04	1.05E-06	4.54E-07	577.6	1.20E-03	3.65E-06	1.48E-06	< 0.5	< 9.67E-07	< 2.89E-09	< 1.38E-09	< 249.1	< 5.17E-04	< 1.569E-06	< 6.449E-07

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-23

Extruder Tread Locations A and B Speciated Volatiles

Compound	CAS #	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 1 Emission Rate lbs/lb rubber	Run 1 Emission Rate lbs/ft² rubber	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 2 Emission Rate lbs/lb rubber	Run 2 Emission Rate lbs/ft² rubber	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr	Run 3 Emission Rate lbs/lb rubber	Run 3 Emission Rate lbs/ft² rubber	Average Concentration µg/m³	Average Emission Rate lbs/hr	Average Emission Rate lbs/lb rubber	Average Emission Rate lbs/ft² rubber
2,2-Dimethylbutane	00075-83-2	18.1	3.36E-05	1.02E-07	4.40E-08	< 0.4	< 8.33E-07	< 2.53E-09	< 1.03E-09	5.8	1.20E-05	3.58E-08	1.72E-08	< 7.4	< 1.55E-05	< 4.676E-08	< 2.072E-08
++ Cyclopentane	00142-29-0	14.1	2.90E-05	8.79E-08	3.79E-08	3.9	8.57E-06	2.60E-08	1.05E-08	7.9	1.64E-05	4.90E-08	2.35E-08	8.8	1.80E-05	5.431E-08	2.398E-08
++ 4-Methyl-1-pentene	00691-37-2	< 0.4	< 7.96E-07	< 2.42E-09	< 1.04E-09	8.9	1.88E-05	5.71E-08	2.31E-08	7.8	1.62E-05	4.85E-08	2.32E-08	< 5.8	< 1.19E-05	< 3.589E-08	< 1.580E-08
++ Cyclopentane + 2,3-Dimethylbut	00287-92-3, 00079-29-8	3.6	7.92E-06	2.37E-08	1.02E-08	20.2	4.22E-05	1.28E-07	5.19E-08	< 0.5	< 1.08E-06	< 3.22E-09	< 1.54E-09	< 8.1	< 1.70E-05	< 5.167E-08	< 2.122E-08
++ 2-Methylpentane	00107-83-5	22.3	4.59E-05	1.39E-07	6.00E-08	37.6	7.88E-05	2.39E-07	9.70E-08	47.8	9.92E-05	2.96E-07	1.42E-07	35.9	7.46E-05	2.249E-07	9.987E-08
++ 3-Methylpentane	00096-14-0	4.8	1.03E-05	3.12E-08	1.34E-08	14.0	2.92E-05	8.87E-08	3.59E-08	< 0.4	< 8.25E-07	< 2.46E-09	< 1.18E-09	< 6.4	< 1.34E-05	< 4.078E-08	< 1.686E-08
++ 1-Hexene	00592-41-6	< 0.4	< 7.96E-07	< 2.42E-09	< 1.04E-09	< 0.4	< 8.13E-07	< 2.47E-09	< 1.00E-09	< 0.4	< 8.06E-07	< 2.41E-09	< 1.15E-09	< 0.4	< 8.05E-07	< 2.431E-09	< 1.068E-09
++ n-Hexane	110-54-3	35.2	7.21E-05	2.19E-07	9.43E-08	77.7	1.62E-04	4.94E-07	2.00E-07	75.9	1.57E-04	4.69E-07	2.26E-07	62.9	1.31E-04	3.939E-07	1.731E-07
++ trans-2-Hexene	04050-45-7	< 0.4	< 7.96E-07	< 2.42E-09	< 1.04E-09	< 0.4	< 8.13E-07	< 2.47E-09	< 1.00E-09	< 0.4	< 8.06E-07	< 2.41E-09	< 1.15E-09	< 0.4	< 8.05E-07	< 2.431E-09	< 1.068E-09
++ 2-Methyl-2-pentene	00625-27-4	< 0.4	< 7.96E-07	< 2.42E-09	< 1.04E-09	< 0.4	< 8.13E-07	< 2.47E-09	< 1.00E-09	< 0.4	< 8.06E-07	< 2.41E-09	< 1.15E-09	< 0.4	< 8.05E-07	< 2.431E-09	< 1.068E-09
++ cis-2-Hexene	07688-21-3	29.2	6.04E-05	1.83E-07	7.91E-08	7.6	1.62E-05	4.92E-08	1.99E-08	< 0.4	< 8.06E-07	< 2.41E-09	< 1.15E-09	< 12.4	< 2.58E-05	< 7.929E-08	< 3.338E-08
++ Methylcyclopentane	00096-37-7	7.0	1.47E-05	4.45E-08	1.92E-08	15.2	3.17E-05	9.64E-08	3.91E-08	12.1	2.51E-05	7.51E-08	3.60E-08	11.4	2.39E-05	7.200E-08	3.142E-08
++ Benzene	71-43-2	32.6	6.69E-05	2.03E-07	8.76E-08	53.8	1.12E-04	3.41E-07	1.38E-07	42.2	8.79E-05	2.62E-07	1.26E-07	42.8	8.90E-05	2.689E-07	1.172E-07
++ Cyclohexane	00110-82-7	15.2	3.18E-05	9.59E-08	4.14E-08	< 0.4	< 8.13E-07	< 2.47E-09	< 1.00E-09	< 0.4	< 8.06E-07	< 2.41E-09	< 1.15E-09	< 5.3	< 1.11E-05	< 3.359E-08	< 1.451E-08
++ 2-Methylhexane	00591-76-4	< 0.3	< 6.97E-07	< 2.11E-09	< 9.12E-10	8.9	1.91E-05	5.81E-08	2.35E-08	< 0.3	< 7.05E-07	< 2.11E-09	< 1.01E-09	< 3.2	< 6.84E-06	< 2.077E-08	< 8.486E-09
++ 2,3-Dimethylpentane	00565-59-3	< 0.3	< 6.97E-07	< 2.11E-09	< 9.12E-10	< 0.3	< 7.11E-07	< 2.16E-09	< 8.78E-10	< 0.3	< 7.05E-07	< 2.11E-09	< 1.01E-09	< 0.3	< 7.04E-07	< 2.127E-09	< 9.323E-10
++ 3-Methylhexane	00589-34-4	6.0	1.26E-05	3.82E-08	1.65E-08	17.9	3.73E-05	1.13E-07	4.59E-08	16.7	3.45E-05	1.03E-07	4.94E-08	13.5	2.92E-05	8.492E-08	3.729E-08
++ 1-Heptene	00592-76-7	< 0.3	< 6.83E-07	< 2.07E-09	< 8.94E-10	< 0.3	< 6.97E-07	< 2.12E-09	< 8.58E-10	< 0.3	< 6.91E-07	< 2.06E-09	< 9.89E-10	< 0.3	< 6.90E-07	< 2.084E-09	< 9.135E-10
++ Isooctane	00540-84-1	< 0.3	< 6.08E-07	< 1.85E-09	< 7.96E-10	15.7	3.29E-05	9.98E-08	4.04E-08	5.3	1.13E-05	3.38E-08	1.62E-08	< 7.1	< 1.49E-05	< 4.515E-08	< 1.914E-08
++ n-Heptane	00142-82-5	15.5	3.22E-05	9.77E-08	4.21E-08	< 0.3	< 7.11E-07	< 2.16E-09	< 8.78E-10	< 0.3	< 7.05E-07	< 2.11E-09	< 1.01E-09	< 5.4	< 1.12E-05	< 3.398E-08	< 1.469E-08
++ Methylcyclohexane	00108-87-2	3.8	8.07E-06	2.45E-08	1.06E-08	< 0.3	< 6.97E-07	< 2.12E-09	< 8.58E-10	< 0.3	< 6.91E-07	< 2.06E-09	< 9.89E-10	< 1.5	< 3.15E-06	< 9.559E-09	< 4.138E-09
++ 2,4-Dimethylhexane	00589-43-5	< 0.3	< 6.08E-07	< 1.85E-09	< 7.96E-10	< 0.3	< 6.21E-07	< 1.89E-09	< 7.64E-10	< 0.3	< 6.15E-07	< 1.84E-09	< 8.81E-10	< 0.3	< 6.15E-07	< 1.856E-09	< 8.137E-10
++ 2,3,4-Trimethylpentane	00565-75-3	< 0.3	< 6.08E-07	< 1.85E-09	< 7.96E-10	< 0.3	< 6.21E-07	< 1.89E-09	< 7.64E-10	< 0.3	< 6.15E-07	< 1.84E-09	< 8.81E-10	< 0.3	< 6.15E-07	< 1.856E-09	< 8.137E-10
++ Toluene	108-88-3	27.4	5.60E-05	1.70E-07	7.34E-08	2847.2	5.96E-03	1.81E-05	7.33E-06	1533.1	3.18E-03	9.49E-06	4.55E-06	1469.2	3.07E-03	9.256E-06	3.986E-06
++ 2-Methylheptane	00592-27-8	7.1	1.50E-05	4.54E-08	1.96E-08	< 0.3	< 6.21E-07	< 1.89E-09	< 7.64E-10	< 0.3	< 6.15E-07	< 1.84E-09	< 8.81E-10	< 2.8	< 5.40E-06	< 1.638E-08	< 7.078E-09
++ 1-Octane	00111-66-0	4.4	9.30E-06	2.82E-08	1.22E-08	< 0.3	< 6.10E-07	< 1.85E-09	< 7.51E-10	< 0.3	< 6.05E-07	< 1.81E-09	< 8.65E-10	< 1.7	< 3.50E-06	< 1.062E-08	< 4.598E-09
++ n-Octane	00111-65-9	5.5	1.12E-05	3.40E-08	1.47E-08	13.1	2.78E-05	8.44E-08	3.42E-08	7.1	1.52E-05	4.53E-08	2.17E-08	8.6	1.80E-05	5.455E-08	2.352E-08
++ Ethylbenzene	00100-41-4	8.2	1.26E-05	3.84E-08	1.66E-08	17.7	3.70E-05	1.12E-07	4.55E-08	14.9	3.09E-05	9.24E-08	4.43E-08	12.9	2.69E-05	8.103E-08	3.545E-08
++ m-Xylene + p-Xylene	00108-38-3, 00106-42-3	29.3	6.00E-05	1.82E-07	7.88E-08	65.1	1.38E-04	4.14E-07	1.88E-07	64.6	1.34E-04	4.00E-07	1.92E-07	53.0	1.10E-04	3.324E-07	1.482E-07
++ Styrene	00100-42-5	44.7	9.18E-05	2.79E-07	1.20E-07	167.3	3.51E-04	1.07E-06	4.32E-07	133.2	2.77E-04	8.28E-07	3.97E-07	115.1	2.40E-04	7.248E-07	3.168E-07
++ o-Xylene	00095-47-6	20.8	4.23E-05	1.28E-07	5.53E-08	50.2	1.05E-04	3.20E-07	1.30E-07	52.4	1.09E-04	3.26E-07	1.56E-07	41.1	8.58E-05	2.580E-07	1.137E-07
++ n-Nonane	00111-84-2	2.2	4.78E-06	1.45E-08	6.26E-09	5.0	1.09E-05	3.30E-08	1.34E-08	< 0.3	< 5.46E-07	< 1.63E-09	< 7.81E-10	< 2.5	< 5.40E-06	< 1.638E-08	< 6.803E-09
++ Cumene	00098-82-8	13.9	2.84E-05	8.63E-08	3.72E-08	20.0	4.23E-05	1.28E-07	5.20E-08	18.9	3.97E-05	1.18E-07	5.68E-08	17.8	3.68E-05	1.111E-07	4.869E-08
++ a-Pinene	07785-70-8	< 0.2	< 4.64E-07	< 1.41E-09	< 6.08E-10	135.4	2.84E-04	8.63E-07	3.49E-07	74.8	1.55E-04	4.63E-07	2.22E-07	< 70.2	< 1.47E-04	< 4.424E-07	< 1.907E-07
++ n-Propylbenzene	00103-65-1	13.3	2.77E-05	8.40E-08	3.62E-08	73.3	1.54E-04	4.68E-07	1.89E-07	64.4	1.34E-04	4.01E-07	1.92E-07	50.4	1.05E-04	3.175E-07	1.383E-07
++ m-Ethyltoluene	00620-14-4	53.3	1.10E-04	3.32E-07	1.43E-07	253.9	5.33E-04	1.62E-06	6.56E-07	257.2	5.36E-04	1.60E-06	7.67E-07	188.1	3.93E-04	1.184E-06	5.220E-07
++ p-Ethyltoluene	00622-96-8	24.4	5.06E-05	1.53E-07	6.61E-08	94.4	1.99E-04	6.04E-07	2.45E-07	100.0	2.09E-04	6.24E-07	2.99E-07	73.0	1.53E-04	4.603E-07	2.032E-07
++ 1,3,5-Trimethylbenzene	00108-67-8	25.0	5.27E-05	1.60E-07	6.90E-08	132.2	2.78E-04	8.43E-07	3.42E-07	142.6	2.97E-04	8.88E-07	4.26E-07	100.0	2.09E-04	6.305E-07	2.788E-07
++ o-Ethyltoluene	00611-14-3	57.2	1.17E-04	3.56E-07	1.54E-07	135.0	2.84E-04	8.61E-07	3.49E-07	153.9	3.21E-04	9.58E-07	4.59E-07	115.4	2.41E-04	7.252E-07	3.206E-07
++ b-Pinene	18172-67-3	< 1.1	< 2.32E-06	< 7.04E-09	< 3.04E-09	62.3	1.31E-04	3.98E-07	1.81E-07	41.4	8.63E-05	2.58E-07	1.24E-07	< 34.9	< 7.32E-05	< 2.209E-07	< 9.589E-08
++ 1,2,4-Trimethylbenzene	00095-63-6	108.9	2.24E-04	6.78E-07	2.93E-07	648.6	1.36E-03	4.13E-06	1.67E-06	517.8	1.08E-03	3.22E-06	1.54E-06	424.4	8.87E-04	2.675E-06	1.169E-06
++ n-Decane	00124-18-5	56.2	1.17E-04	3.55E-07	1.53E-07	18.6	3.57E-05	1.09E-07	4.40E-08	88.2	1.84E-04	5.48E-07	2.63E-07	53.7	1.12E-04	3.372E-07	1.533E-07
++ p-Cymene	00099-87-6	31.3	6.40E-05	1.94E-07	8.39E-08	90.4	1.90E-04	5.77E-07	2.34E-07	85.4	1.78E-04	5.31E-07	2.55E-07	69.0	1.44E-04	4.340E-07	1.907E-07
++ d-Limonene	059-27-5	< 1.1	< 2.32E-06	< 7.04E-09	< 3.04E-09	20.4	4.27E-05	1.30E-07	5.26E-08	6.2	1.42E-05	4.23E-08	2.03E-08	< 9.3	< 1.97E-05	< 5.972E-08	< 2.530E-08
++ 1,4-Diethylbenzene + n-Butylben	00105-05-5, 00104-51-8	6.7	1.49E-05	4.53E-08	1.95E-08	41.9	8.78E-05	2.67E-07	1.08E-07	51.4	1.07E-04	3.18E-07	1.53E-07	33.3	6.99E-05	2.104E-07	9.358E-08
Total Detected		5869.7	1.18E-02	3.59E-05	1.55E-05	11935.0	2.51E-02	7.64E-05	3.09E-05	10385.5	2.16E-02	6.44E-05	6.43E-05	7997.6	1.67E-02	5.03E-05	2.20E-05
Total with non-detects		< 6447.8	< 1.34E-02	< 4.07E-05	< 1.76E-05	< 12742.9	< 2.68E-02	< 8.15E-05	< 3.30E-05	< 11244.6	< 2.33E-02	< 6.97E-05	< 3.34E-05	< 10145.0	< 2.12E-02	< 6.40E-05	< 2.80E-05

+ Tentatively Identified Compound

++ Ozone Precursor

TRC

Table I.1-24
Extruder Tread Location A Speciated Volatiles

Compound	Run 1			Run 2			Run 3		
		Concentration µg/m³	Emission Rate lbs/hr		Concentration µg/m³	Emission Rate lbs/hr		Concentration µg/m³	Emission Rate lbs/hr
Dichlorodifluoromethane	<	8.0	< 1.63E-05		5.2	1.08E-05		6.4	1.32E-05
Chloromethane	<	8.0	< 1.63E-05		3.6	7.49E-06		2.5	5.14E-06
Vinyl Chloride	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
Chloroethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
Bromomethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
Acetonitrile	<	16.0	< 3.26E-05	<	16.0	< 3.33E-05	<	16.0	< 3.29E-05
Acrolein	<	16.0	< 3.26E-05		15.0	3.12E-05	<	16.0	< 3.29E-05
Acetone		28.0	5.71E-05		54.0	1.12E-04		98.0	2.02E-04
Propylene Oxide	<	16.0	< 3.26E-05	<	16.0	< 3.33E-05	<	16.0	< 3.29E-05
Trichlorofluoromethane	<	8.0	< 1.63E-05		11.0	2.29E-05		10.0	2.06E-05
Acrylonitrile	<	16.0	< 3.26E-05	<	16.0	< 3.33E-05	<	16.0	< 3.29E-05
1,1-Dichloroethene	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
Methylene Chloride		470.0	9.58E-04		1500.0	3.12E-03		1500.0	3.09E-03
Allyl Chloride	<	16.0	< 3.26E-05	<	16.0	< 3.33E-05	<	16.0	< 3.29E-05
Carbon Disulfide	<	8.0	< 1.63E-05		7.8	1.62E-05		82.0	1.69E-04
Trichlortrifluoroethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
trans-1,2-Dichloroethene	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
cis-1,2-Dichloroethene	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
1,1-Dichloroethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
t-Butyl Methyl Ether	<	16.0	< 3.26E-05	<	16.0	< 3.33E-05	<	16.0	< 3.29E-05
Vinyl Acetate	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
2-Butanone		4.1	8.36E-06		6.0	1.25E-05		5.9	1.21E-05
n-Hexane	<	8.0	< 1.63E-05		3.1	6.45E-06	<	8.0	< 1.65E-05
Chloroform	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
1,2-Dichloroethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
1,1,1-Trichloroethane		8.2	1.67E-05		4.5	9.36E-06	<	8.0	< 1.65E-05
Carbon Tetrachloride	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
1,2-Dichloropropane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
Bromodichloromethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
1,4-Dioxane	<	32.0	< 6.52E-05	<	32.0	< 6.66E-05	<	32.0	< 6.59E-05
Trichloroethene	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
Epichlorohydrin	<	16.0	< 3.26E-05	<	16.0	< 3.33E-05	<	16.0	< 3.29E-05
cis-1,3-Dichloropropene	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
4-Methyl-2-Pentanone		72.0	1.47E-04		30.0	6.24E-05		68.0	1.40E-04
trans-1,2-Dichloropropene	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
1,1,2-Trichloroethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
Chlorodibromomethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
2-Hexanone	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
1,2-Dibromoethane	<	8.0	< 1.63E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05
Tetrachloroethene		5.4	1.10E-05	<	8.0	< 1.66E-05	<	8.0	< 1.65E-05

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-24
Extruder Tread Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Chlorobenzene	< 8.0	< 1.63E-05	< 8.0	< 1.66E-05	< 8.0	< 1.65E-05
Bromoform	< 8.0	< 1.63E-05	< 8.0	< 1.66E-05	< 8.0	< 1.65E-05
1,1,2,2-Tetrachloroethane	< 8.0	< 1.63E-05	< 8.0	< 1.66E-05	< 8.0	< 1.65E-05
Benzyl Chloride	< 16.0	< 3.26E-05	< 16.0	< 3.33E-05	< 16.0	< 3.29E-05
1,3-Dichlorobenzene	< 8.0	< 1.63E-05	< 8.0	< 1.66E-05	< 8.0	< 1.65E-05
1,4-Dichlorobenzene	< 8.0	< 1.63E-05	< 8.0	< 1.66E-05	< 8.0	< 1.65E-05
1,2-Dichlorobenzene	< 8.0	< 1.63E-05	< 8.0	< 1.66E-05	< 8.0	< 1.65E-05
1,2-Dibromo-3-Chloropropane	< 16.0	< 3.26E-05	< 16.0	< 3.33E-05	< 16.0	< 3.29E-05
Hexachlorobutadiene	< 16.0	< 3.26E-05	< 16.0	< 3.33E-05	< 16.0	< 3.29E-05
+ C9H12 Alkyl Substituted Benzene	40.0	8.15E-05			20.0	4.12E-05
+ Butane			40.0	8.32E-05	30.0	6.17E-05
+ Decane			10.0	2.08E-05		
+ Undecane			50.0	1.04E-04		
+ Dodecane			70.0	1.46E-04	20.0	4.12E-05
+ Propene					50.0	1.03E-04
+ Isopropyl Alcohol					500.0	1.03E-03
+ Heptanone					40.0	8.23E-05
+ Naphthalene					20.0	4.12E-05
++ Ethylene	< 0.6	< 1.19E-06	14.0	2.91E-05	14.0	2.88E-05
++ Acetylene	1.4	2.76E-06	19.0	3.94E-05	16.8	3.45E-05
++ Ethane	3.9	7.90E-06	11.3	2.34E-05	6.9	1.42E-05
++ Propylene	< 0.4	< 7.93E-07	8.2	1.70E-05	12.3	2.52E-05
++ Propane	7.9	1.62E-05	354.6	7.38E-04	299.6	6.17E-04
++ Methylacetylene	< 0.4	< 7.36E-07	< 0.4	< 7.51E-07	< 0.4	< 7.43E-07
++ Isobutane	2.2	4.43E-06	15.1	3.14E-05	33.2	6.84E-05
++ Isobutylene + 1-Butene	< 0.3	< 5.95E-07	8.8	1.82E-05	< 0.3	< 6.00E-07
++ 1,3-Butadiene	16.9	3.44E-05	< 0.3	< 5.85E-07	84.4	1.74E-04
++ n-Butane	7.9	1.60E-05	60.4	1.26E-04	< 0.3	< 6.22E-07
++ trans-2-Butene	< 0.3	< 5.95E-07	< 0.3	< 6.07E-07	< 0.3	< 6.00E-07
++ 2,2-Dimethylpropane	< 0.2	< 4.89E-07	< 0.2	< 4.99E-07	< 0.2	< 4.94E-07
++ Ethylacetylene	< 0.3	< 5.73E-07	< 0.3	< 5.85E-07	< 0.3	< 5.79E-07
++ cis-2-Butene	< 0.3	< 5.95E-07	< 0.3	< 6.07E-07	< 0.3	< 6.00E-07
++ Isopentane	78.0	1.59E-04	114.0	2.37E-04	< 0.2	< 4.94E-07
++ 1-Pentene	< 0.2	< 4.76E-07	< 0.2	< 4.86E-07	239.2	4.92E-04
++ 2-Methyl-1-butene	< 0.2	< 4.76E-07	< 0.2	< 4.86E-07	28.0	5.76E-05
++ n-Pentane	3.4	6.85E-06	10.8	2.25E-05	< 0.2	< 4.94E-07
++ Isoprene	3.5	7.16E-06	17.0	3.54E-05	23.8	4.90E-05
++ trans-2-Pentene	< 0.2	< 4.76E-07	< 0.2	< 4.86E-07	< 0.2	< 4.80E-07
++ cis-2-Pentene	< 0.2	< 4.76E-07	< 0.2	< 4.86E-07	513.5	1.06E-03
++ 2-Methyl-2-butene	75.9	1.55E-04	577.6	1.20E-03	< 0.2	< 4.80E-07

+ Tentatively Identified Compound

++ Ozone Precursor

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-24
Extruder Tread Location A Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
++ 2,2-Dimethylbutane	< 0.2	< 4.06E-07	< 0.2	< 4.14E-07	< 0.2	< 4.10E-07
++ Cyclopentene	3.3	6.81E-06	< 0.2	< 4.72E-07	4.9	1.00E-05
++ 4-Methyl-1-pentene	< 0.2	< 3.96E-07	< 0.2	< 4.05E-07	< 0.2	< 4.00E-07
++ Cyclopentane + 2,3-Dimethylbutane	3.6	7.29E-06	9.8	2.03E-05	< 0.3	< 5.35E-07
++ 2-Methylpentane	5.0	1.02E-05	13.7	2.86E-05	18.5	3.81E-05
++ 3-Methylpentane	4.8	9.86E-06	8.4	1.74E-05	< 0.2	< 4.10E-07
++ 1-Hexene	< 0.2	< 3.96E-07	< 0.2	< 4.05E-07	< 0.2	< 4.00E-07
++ n-Hexane	23.3	4.75E-05	34.7	7.21E-05	38.2	7.87E-05
++ trans-2-Hexene	< 0.2	< 3.96E-07	< 0.2	< 4.05E-07	< 0.2	< 4.00E-07
++ 2-Methyl-2-pentene	< 0.2	< 3.96E-07	< 0.2	< 4.05E-07	< 0.2	< 4.00E-07
++ cis-2-Hexene	< 0.2	< 3.96E-07	7.6	1.58E-05	< 0.2	< 4.00E-07
++ Methylcyclopentane	7.0	1.43E-05	6.4	1.34E-05	6.4	1.32E-05
++ Benzene	2.8	5.63E-06	15.2	3.15E-05	9.2	1.89E-05
++ Cyclohexane	< 0.2	< 3.96E-07	< 0.2	< 4.05E-07	< 0.2	< 4.00E-07
++ 2-Methylhexane	< 0.2	< 3.47E-07	< 0.2	< 3.54E-07	< 0.2	< 3.50E-07
++ 2,3-Dimethylpentane	< 0.2	< 3.47E-07	< 0.2	< 3.54E-07	< 0.2	< 3.50E-07
++ 3-Methylhexane	< 0.2	< 3.47E-07	10.1	2.11E-05	8.3	1.72E-05
++ 1-Heptene	< 0.2	< 3.40E-07	< 0.2	< 3.47E-07	< 0.2	< 3.43E-07
++ Isooctane	< 0.1	< 3.03E-07	4.4	9.14E-06	5.3	1.10E-05
++ n-Heptane	< 0.2	< 3.47E-07	< 0.2	< 3.54E-07	< 0.2	< 3.50E-07
++ Methylcyclohexane	3.8	7.73E-06	< 0.2	< 3.47E-07	< 0.2	< 3.43E-07
++ 2,4-Dimethylhexane	< 0.1	< 3.03E-07	< 0.1	< 3.09E-07	< 0.1	< 3.06E-07
++ 2,3,4-Trimethylpentane	< 0.1	< 3.03E-07	< 0.1	< 3.09E-07	< 0.1	< 3.06E-07
++ Toluene	14.2	2.90E-05	1149.8	2.39E-03	657.0	1.35E-03
++ 2-Methylheptane	< 0.1	< 3.03E-07	< 0.1	< 3.09E-07	< 0.1	< 3.06E-07
++ 1-Octene	< 0.1	< 2.97E-07	< 0.1	< 3.03E-07	< 0.1	< 3.00E-07
++ n-Octane	2.4	4.96E-06	< 0.1	< 3.09E-07	< 0.1	< 3.06E-07
++ Ethylbenzene	3.7	7.54E-06	7.2	1.49E-05	5.5	1.14E-05
++ m-Xylene + p-Xylene	6.6	1.35E-05	23.2	4.82E-05	22.1	4.54E-05
++ Styrene	2.4	4.97E-06	15.7	3.27E-05	19.5	4.01E-05
++ o-Xylene	5.1	1.05E-05	10.5	2.18E-05	11.6	2.39E-05
++ n-Nonane	< 0.1	< 2.68E-07	< 0.1	< 2.74E-07	< 0.1	< 2.71E-07
++ Cumene	6.1	1.25E-05	< 0.1	< 2.57E-07	< 0.1	< 2.54E-07
++ a-Pinene	< 0.1	< 2.31E-07	33.4	6.96E-05	33.4	6.88E-05
++ n-Propylbenzene	< 0.1	< 2.52E-07	6.7	1.39E-05	8.9	1.83E-05
++ m-Ethyltoluene	8.3	1.70E-05	26.1	5.43E-05	35.0	7.20E-05
++ p-Ethyltoluene	< 0.1	< 2.52E-07	< 0.1	< 2.57E-07	< 0.1	< 2.54E-07
++ 1,3,5-Trimethylbenzene	< 0.6	< 1.26E-06	10.0	2.08E-05	15.0	3.09E-05
++ o-Ethyltoluene	16.1	3.28E-05	7.2	1.50E-05	9.4	1.94E-05
++ b-Pinene	< 0.6	< 1.15E-06	62.3	1.30E-04	41.4	8.51E-05
++ 1,2,4-Trimethylbenzene	20.0	4.08E-05	35.6	7.40E-05	51.1	1.05E-04
++ n-Decane	< 0.6	< 1.21E-06	16.6	3.45E-05	11.2	2.31E-05
++ p-Cymene	13.4	2.73E-05	12.3	2.56E-05	12.8	2.64E-05
++ d-Limonene	< 0.6	< 1.15E-06	6.8	1.41E-05	< 0.6	< 1.17E-06
++ 1,4-Diethylbenzene + n-Butylbenzene	< 0.6	< 1.14E-06	7.8	1.63E-05	8.9	1.84E-05
Total Detected	980.7	2.01E-03	4562.4	9.49E-03	4758.4	9.79E-03
Total with non-detects	< 1438.7	< 4.86E-04	< 4968.4	< 1.03E-02	< 1576.0	< 3.24E-03

+ Tentatively Identified Compound

++ Ozone Precursor

Reporting limits are shown for reference purposes , and are not included in the totals.

When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-25
Extruder Tread Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Dichlorodifluoromethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	6.1	1.27E-05
Chloromethane	6.2	1.28E-05	< 8.0	< 1.68E-05	3.5	7.30E-06
Vinyl Chloride	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Chloroethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Bromomethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Acetonitrile	73.0	1.50E-04	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
Acrolein	70.0	1.44E-04	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
Acetone	550.0	1.13E-03	75.0	1.58E-04	58.0	1.21E-04
Propylene Oxide	810.0	1.67E-03	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
Trichlorofluoromethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	10.0	2.09E-05
Acrylonitrile	< 16.0	< 3.29E-05	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
1,1-Dichloroethene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Methylene Chloride	530.0	1.09E-03	1500.0	3.15E-03	810.0	1.69E-03
Allyl Chloride	< 16.0	< 3.29E-05	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
Carbon Disulfide	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	15.0	3.13E-05
Trichlortrifluoroethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
trans-1,2-Dichloroethene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
cis-1,2-Dichloroethene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,1-Dichloroethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
t-Butyl Methyl Ether	< 16.0	< 3.29E-05	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
Vinyl Acetate	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
2-Butanone	17.0	3.50E-05	< 16.0	< 3.36E-05	7.0	1.46E-05
Chloroform	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,2-Dichloroethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,1,1-Trichloroethane	8.3	1.71E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Carbon Tetrachloride	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,2-Dichloropropane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Bromodichloromethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,4-Dioxane	< 32.0	< 6.58E-05	< 32.0	< 6.72E-05	< 32.0	< 6.68E-05
Trichloroethene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Epichlorohydrin	< 16.0	< 3.29E-05	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
cis-1,3-Dichloropropene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
4-Methyl-2-Pentanone	< 8.0	< 1.65E-05	570.0	1.20E-03	520.0	1.09E-03
trans-1,2-Dichloropropene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,1,2-Trichloroethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Chlorodibromomethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
2-Hexanone	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,2-Dibromoethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Tetrachloroethene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-25
Extruder Tread Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
Chlorobenzene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Bromoform	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,1,2,2-Tetrachloroethane	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
Benzyl Chloride	< 16.0	< 3.29E-05	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
1,3-Dichlorobenzene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,4-Dichlorobenzene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,2-Dichlorobenzene	< 8.0	< 1.65E-05	< 8.0	< 1.68E-05	< 8.0	< 1.67E-05
1,2-Dibromo-3-Chloropropane	< 16.0	< 3.29E-05	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
Hexachlorobutadiene	< 16.0	< 3.29E-05	< 16.0	< 3.36E-05	< 16.0	< 3.34E-05
+ Isopropyl Alcohol	200.0	4.11E-04	40.0	8.41E-05		
+ Nitromethane	70.0	1.44E-04				
+ Isobutyraldehyde	100.0	2.06E-04				
+ Butanol	300.0	6.17E-04				
+ Isobutanol	200.0	4.11E-04				
+ 1-Butanol	400.0	8.23E-04				
+ C9H12 Alkyl Substituted Benzene	100.0	2.06E-04	200.0	4.20E-04	480.0	1.00E-03
+ C11-C12 Branched Alkane	200.0	4.11E-04				
+ C10H18 Cyclic Hydrocarbon			90.0	1.89E-04	100.0	2.09E-04
+ Dodecane			50.0	1.05E-04		
+ Heptanone					40.0	8.35E-05
+ Cyclohexanone					60.0	1.25E-04
+ Propylbenzene					60.0	1.25E-04
++ Ethylene	< 0.6	< 1.20E-06	14.0	2.94E-05	14.0	2.92E-05
++ Acetylene	< 0.5	< 1.11E-06	20.6	4.32E-05	17.3	3.62E-05
++ Ethane	< 0.6	< 1.29E-06	8.1	1.71E-05	7.5	1.57E-05
++ Propylene	5.1	1.04E-05	9.3	1.96E-05	8.2	1.70E-05
++ Propane	8.6	1.76E-05	373.0	7.84E-04	305.7	6.38E-04
++ Methylacetylene	< 0.4	< 7.42E-07	< 0.4	< 7.59E-07	< 0.4	< 7.53E-07
++ Isobutane	< 0.3	< 6.22E-07	90.7	1.91E-04	< 0.3	< 6.31E-07
++ Isobutylene + 1-Butene	5.8	1.20E-05	< 0.3	< 6.13E-07	< 0.3	< 6.09E-07
++ 1,3-Butadiene	12.4	2.55E-05	67.5	1.42E-04	61.9	1.29E-04
++ n-Butane	4.8	9.94E-06	< 0.3	< 6.35E-07	< 0.3	< 6.31E-07
++ trans-2-Butene	1.8	3.72E-06	< 0.3	< 6.13E-07	< 0.3	< 6.09E-07
++ 2,2-Dimethylpropane	< 0.2	< 4.94E-07	< 0.2	< 5.05E-07	< 0.2	< 5.01E-07
++ Ethylacetylene	< 0.3	< 5.78E-07	< 0.3	< 5.91E-07	< 0.3	< 5.87E-07
++ cis-2-Butene	< 0.3	< 6.00E-07	< 0.3	< 6.13E-07	< 0.3	< 6.09E-07
++ Isopentane	288.1	5.93E-04	< 0.2	< 5.05E-07	126.1	2.63E-04
++ 1-Pentene	40.8	8.40E-05	49.0	1.03E-04	< 0.2	< 4.87E-07
++ 2-Methyl-1-butene	< 0.2	< 4.80E-07	15.8	3.31E-05	< 0.2	< 4.87E-07
++ n-Pentane	< 0.2	< 4.94E-07	< 0.2	< 5.05E-07	7.2	1.50E-05

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-25
Extruder Tread Location B Speciated Volatiles

Compound	Run 1 Concentration µg/m³	Run 1 Emission Rate lbs/hr	Run 2 Concentration µg/m³	Run 2 Emission Rate lbs/hr	Run 3 Concentration µg/m³	Run 3 Emission Rate lbs/hr
++ Isoprene	1.9	3.96E-06	17.6	3.69E-05	11.3	2.36E-05
++ trans-2-Pentene	< 0.2	< 4.80E-07	< 0.2	< 4.90E-07	< 0.2	< 4.87E-07
++ cis-2-Pentene	< 0.2	< 4.80E-07	554.3	1.16E-03	303.4	6.33E-04
++ 2-Methyl-2-butene	93.4	1.92E-04	< 0.2	< 4.90E-07	< 0.2	< 4.87E-07
++ 2,2-Dimethylbutane	16.1	3.32E-05	< 0.2	< 4.19E-07	5.6	1.16E-05
++ Cyclopentene	10.8	2.21E-05	3.9	8.10E-06	3.1	6.39E-06
++ 4-Methyl-1-pentene	< 0.2	< 4.00E-07	8.8	1.84E-05	7.6	1.58E-05
++ Cyclopentane + 2,3-Dimethylbutane	< 0.3	< 5.35E-07	10.4	2.19E-05	< 0.3	< 5.43E-07
++ 2-Methylpentane	17.3	3.56E-05	23.9	5.02E-05	29.3	6.11E-05
++ 3-Methylpentane	< 0.2	< 4.10E-07	5.6	1.18E-05	< 0.2	< 4.16E-07
++ 1-Hexene	< 0.2	< 4.00E-07	< 0.2	< 4.09E-07	< 0.2	< 4.06E-07
++ n-Hexane	11.9	2.46E-05	43.0	9.04E-05	37.6	7.85E-05
++ trans-2-Hexene	< 0.2	< 4.00E-07	< 0.2	< 4.09E-07	< 0.2	< 4.06E-07
++ 2-Methyl-2-pentene	< 0.2	< 4.00E-07	< 0.2	< 4.09E-07	< 0.2	< 4.06E-07
++ cis-2-Hexene	29.2	6.00E-05	< 0.2	< 4.09E-07	< 0.2	< 4.06E-07
++ Methylcyclopentane	< 0.2	< 4.00E-07	8.8	1.84E-05	5.7	1.19E-05
++ Benzene	29.8	6.13E-05	38.5	8.08E-05	33.0	6.89E-05
++ Cyclohexane	15.2	3.12E-05	< 0.2	< 4.09E-07	< 0.2	< 4.06E-07
++ 2-Methylhexane	< 0.2	< 3.50E-07	8.9	1.88E-05	< 0.2	< 3.55E-07
++ 2,3-Dimethylpentane	< 0.2	< 3.50E-07	< 0.2	< 3.58E-07	< 0.2	< 3.55E-07
++ 3-Methylhexane	6.0	1.22E-05	7.7	1.63E-05	8.3	1.74E-05
++ 1-Heptene	< 0.2	< 3.43E-07	< 0.2	< 3.50E-07	< 0.2	< 3.48E-07
++ Isooctane	< 0.1	< 3.05E-07	11.3	2.37E-05	< 0.1	< 3.10E-07
++ n-Heptane	15.5	3.18E-05	< 0.2	< 3.58E-07	< 0.2	< 3.55E-07
++ Methylcyclohexane	< 0.2	< 3.43E-07	< 0.2	< 3.50E-07	< 0.2	< 3.48E-07
++ 2,4-Dimethylhexane	< 0.1	< 3.05E-07	< 0.1	< 3.12E-07	< 0.1	< 3.10E-07
++ 2,3,4-Trimethylpentane	< 0.1	< 3.05E-07	< 0.1	< 3.12E-07	< 0.1	< 3.10E-07
++ Toluene	13.1	2.70E-05	1697.4	3.57E-03	876.1	1.83E-03
++ 2-Methylheptane	7.1	1.47E-05	< 0.1	< 3.12E-07	< 0.1	< 3.10E-07
++ 1-Octene	4.4	9.00E-06	< 0.1	< 3.07E-07	< 0.1	< 3.04E-07
++ n-Octane	3.0	6.23E-06	13.1	2.75E-05	7.1	1.49E-05
++ Ethylbenzene	2.5	5.11E-06	10.5	2.20E-05	9.4	1.96E-05
++ m-Xylene + p-Xylene	22.6	4.65E-05	42.0	8.82E-05	42.5	8.87E-05
++ Styrene	42.2	8.69E-05	151.6	3.19E-04	113.7	2.37E-04
++ o-Xylene	15.5	3.18E-05	39.7	8.35E-05	40.9	8.52E-05
++ n-Nonane	2.2	4.51E-06	5.0	1.06E-05	< 0.1	< 2.75E-07
++ Cumene	7.8	1.60E-05	20.0	4.20E-05	18.9	3.94E-05
++ a-Pinene	< 0.1	< 2.33E-07	102.0	2.14E-04	41.4	8.63E-05
++ n-Propylbenzene	13.3	2.74E-05	66.7	1.40E-04	55.6	1.16E-04
++ m-Ethyltoluene	45.0	9.25E-05	227.8	4.79E-04	222.2	4.64E-04
++ p-Ethyltoluene	24.4	5.03E-05	94.4	1.98E-04	100.0	2.09E-04
++ 1,3,5-Trimethylbenzene	25.0	5.14E-05	122.2	2.57E-04	127.8	2.67E-04
++ o-Ethyltoluene	41.1	8.45E-05	127.8	2.69E-04	144.4	3.01E-04
++ b-Pinene	< 0.6	< 1.17E-06	< 0.6	< 1.19E-06	< 0.6	< 1.18E-06
++ 1,2,4-Trimethylbenzene	88.9	1.83E-04	611.1	1.28E-03	466.6	9.74E-04
++ n-Decane	56.2	1.16E-04	< 0.6	< 1.24E-06	76.9	1.61E-04
++ p-Cymene	17.9	3.67E-05	78.2	1.64E-04	72.6	1.51E-04
++ d-Limonene	< 0.6	< 1.17E-06	13.6	2.86E-05	6.2	1.30E-05
++ 1,4-Diethylbenzene + n-Butylbenzene	6.7	1.38E-05	34.1	7.16E-05	42.4	8.85E-05
Total Detected	4696.0	9.66E-03	8112.5	1.70E-02	6089.0	1.27E-02
Total with non-detects	< 5096.0	< 1.05E-02	< 7851.2	< 1.65E-02	< 6058.1	< 1.26E-02

+ Tentatively Identified Compound
++ Ozone Precursor
When duplicates were found between TO-14 and Ozone Precursor compounds, the Ozone Precursor concentrations were reported unless the concentrations were predominately from reporting limits.

TRC

Table I.1-26
Extruder SBR Locations A and B POM

	Run 1			Run 2			Run 3			Average		
	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B
POM (mg)*	3.6	9.3	12.9	3.6	3.3	6.9	0.8	6	6.8	2.7	6.2	8.9
Volume Sampled (dscf)	41.265	45.701		31.462	38.745		35.91	33.117				
Flowrate (dscfm)	703	597		537	531		737	519				
POM (lb/hr)	8.11E-03	1.61E-02	2.42E-02	8.13E-03	5.98E-03	1.41E-02	2.17E-03	1.24E-02	1.46E-02	6.14E-03	1.15E-02	1.76E-02
Run Time (min)	60	60		60	60		60	60				
Rubber (lbs)	599.4	599.4		488.0	488.0		484.5	484.5				
POM (lb/lb rubber)	1.35E-05	2.68E-05	4.03E-05	1.67E-05	1.23E-05	2.89E-05	4.48E-06	2.57E-05	3.02E-05	1.16E-05	2.16E-05	3.31E-05
POM (lb/ft² rubber)	1.44E-05	2.86E-05	4.30E-05	1.67E-05	1.23E-05	2.89E-05	4.79E-06	2.74E-05	3.22E-05	1.20E-05	2.28E-05	3.47E-05

* Blank Corrected.

TRC

Table I.1-27
Extruder Sidewall Location A and B POM

	Run 1			Run 2			Run 3			Average		
	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B
POM (mg)*	1.3	0.2	1.5	0.00E+00	0.00E+00	0.00E+00	1.7	0.1	1.8	1.0	0.1	1.1
Volume Sampled (dscf)	35.015	34.81		43.691	40.525		32.237	35.618				
Flowrate (dscfm)	725	560		757	555		594	572				
POM (lb/hr)	3.56E-03	4.26E-04	3.99E-03	0.00E+00	0.00E+00	0.00E+00	4.14E-03	2.12E-04	4.36E-03	2.57E-03	2.13E-04	2.78E-03
Run Time (min)	60	60		60	60		60	60				
Rubber (lbs)	269.5	269.5		294.2	294.2		273.0	273.0				
POM (lb/lb rubber)	1.32E-05	1.58E-06	1.48E-05	0.00E+00	0.00E+00	0.00E+00	1.52E-05	7.78E-07	1.60E-05	9.46E-06	7.86E-07	1.02E-05
POM (lb/ft² rubber)	7.30E-06	8.73E-07	8.18E-06	0.00E+00	0.00E+00	0.00E+00	8.50E-06	4.36E-07	8.94E-06	5.27E-06	4.36E-07	5.70E-06

* Blank Corrected.

TRC

Table I.1-28
Extruder EPDM Locations A and B POM

	Run 1			Run 2			Run 3			Average		
	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc and B
POM (mg)*	0.0	4.2	4.2	2.6	4.5	7.1	6.4	5.3	11.7	3.0	4.7	7.7
Volume Sampled (dscf)	33.188	35.132		31.849	32.619		31.782	32.676				
Flowrate (dscfm)	547	564		564	501		556	505				
POM (lb/hr)	0.00E+00	8.92E-03	8.92E-03	6.09E-03	9.14E-03	1.52E-02	1.48E-02	1.08E-02	2.56E-02	6.97E-03	9.63E-03	1.66E-02
Run Time (min)	60	60		60	60		60	60				
Rubber (lbs)	365.8	365.8		360.9	360.9		341.5	341.5				
POM (lb/lb rubber)	0.00E+00	2.44E-05	2.44E-05	1.69E-05	2.53E-05	4.22E-05	4.34E-05	3.17E-05	7.51E-05	2.01E-05	2.71E-05	4.72E-05
POM (lb/ft² rubber)	0.00E+00	1.03E-05	1.03E-05	7.50E-06	1.13E-05	1.87E-05	1.66E-05	1.21E-05	2.87E-05	8.02E-06	1.12E-05	1.92E-05

* Blank Corrected.

TRC

Table I.1-29
Extruder Tread Locations A and B POM

	Run 1			Run 2			Run 3			Average		
	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B	Loc A	Loc B	Loc A and B
POM (mg)*	0.4	1.8	2.2	1	4.1	5.1	5.4	2.1	7.5	2.3	2.7	4.9
Volume Sampled (dscf)	31.014	38.67		63.853	50.91		60.401	53.731				
Flowrate (dscfm)	536	591		594	554		565	588				
POM (lb/hr)	9.14E-04	3.64E-03	4.55E-03	1.23E-03	5.90E-03	7.13E-03	6.68E-03	3.04E-03	9.72E-03	2.94E-03	4.19E-03	7.14E-03
Run Time (min)	60	60		60	60		60	60				
Rubber (lbs)	329.5	329.5		329.2	329.2		334.9	334.9				
POM (lb/lb rubber)	2.78E-06	1.10E-05	1.38E-05	3.74E-06	1.79E-05	2.17E-05	1.99E-05	9.08E-06	2.90E-05	8.82E-06	1.27E-05	2.15E-05
POM (lb/ft² rubber)	1.20E-06	4.76E-06	5.96E-06	1.51E-06	7.26E-06	8.78E-06	9.56E-06	4.35E-06	1.39E-05	4.09E-06	5.46E-06	9.55E-06

* Blank Corrected.

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Table I.1-30
Extruder SBR Locations A and B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 19.6	< 19.6	< 19.6	< 19.6
Methyl Mercaptan	74-93-1	< 15.8	< 15.8	< 15.8	< 15.8
Ethyl Mercaptan	75-08-1	< 20	< 20	< 20	< 20.0
Dimethyl Sulfide	75-18-3	< 20	< 20	< 20	< 20.0
Carbon Disulfide	75-15-0	< 12.4	20.3	< 12.4	< 15.0
Isopropyl Mercaptan	75-33-2	< 24	< 24	< 24	< 24.0
tert-Butyl Mercaptan	75-66-1	< 30	< 30	< 30	< 30.0
n-Propyl Mercaptan	107-03-9	< 24	< 24	< 24	< 24.0
Ethyl Methyl Sulfide	624-89-5	< 24	< 24	< 24	< 24.0
Thiophene	110-02-1	< 28	< 28	< 28	< 28.0
Isobutyl Mercaptan	513-44-0	< 30	< 30	< 30	< 30.0
Diethyl Sulfide	352-93-2	< 30	< 30	< 30	< 30.0
n-Butyl Mercaptan	109-79-5	< 30	< 30	< 30	< 30.0
Dimethyl Disulfide	624-92-0	< 15.4	< 15.4	< 15.4	< 15.4
3-Methylthiophene	616-44-4	< 32	< 32	< 32	< 32.0
Tetrahydrothiophene	110-01-0	< 28	< 28	< 28	< 28.0
2-Ethylthiophene	872-55-9	< 36	< 36	< 36	< 36.0
2-5,Dimethylthiophene	638-02-8	< 36	< 36	< 36	< 36.0
Diethyl Disulfide	110-81-6	< 20	< 20	< 20	< 20.0
Total Detected		0	20.3	0	0.0
Total with non-detects		< 475.2	< 483.1	< 475.2	< 477.8
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 4.62E-05	< 4.85E-05	< 4.19E-05	< 4.55E-05
Methyl Mercaptan	74-93-1	< 3.72E-05	< 3.91E-05	< 3.38E-05	< 3.67E-05
Ethyl Mercaptan	75-08-1	< 4.71E-05	< 4.95E-05	< 4.28E-05	< 4.65E-05
Dimethyl Sulfide	75-18-3	< 4.71E-05	< 4.95E-05	< 4.28E-05	< 4.65E-05
Carbon Disulfide	75-15-0	< 2.92E-05	4.19E-05	< 5.94E-05	< 4.35E-05
Isopropyl Mercaptan	75-33-2	< 5.66E-05	< 5.94E-05	< 5.13E-05	< 5.58E-05
tert-Butyl Mercaptan	75-66-1	< 7.07E-05	< 7.42E-05	< 6.42E-05	< 6.97E-05
n-Propyl Mercaptan	107-03-9	< 5.66E-05	< 5.94E-05	< 5.13E-05	< 5.58E-05
Ethyl Methyl Sulfide	624-89-5	< 5.66E-05	< 5.94E-05	< 5.13E-05	< 5.58E-05
Thiophene	110-02-1	< 6.60E-05	< 6.93E-05	< 5.99E-05	< 6.51E-05
Isobutyl Mercaptan	513-44-0	< 7.07E-05	< 7.42E-05	< 6.42E-05	< 6.97E-05
Diethyl Sulfide	352-93-2	< 7.07E-05	< 7.42E-05	< 6.42E-05	< 6.97E-05
n-Butyl Mercaptan	109-79-5	< 7.07E-05	< 7.42E-05	< 6.42E-05	< 6.97E-05
Dimethyl Disulfide	624-92-0	< 3.63E-05	< 3.81E-05	< 3.29E-05	< 3.58E-05
3-Methylthiophene	616-44-4	< 7.54E-05	< 7.92E-05	< 6.84E-05	< 7.44E-05
Tetrahydrothiophene	110-01-0	< 6.60E-05	< 6.93E-05	< 5.99E-05	< 6.51E-05
2-Ethylthiophene	872-55-9	< 8.49E-05	< 8.91E-05	< 7.70E-05	< 8.36E-05
2-5,Dimethylthiophene	638-02-8	< 8.49E-05	< 8.91E-05	< 7.70E-05	< 8.36E-05
Diethyl Disulfide	110-81-6	< 4.71E-05	< 4.95E-05	< 4.28E-05	< 4.65E-05
Total Detected		0.00E+00	4.19E-05	0.00E+00	0.00E+00
Total with non-detects		< 1.12E-03	< 1.19E-03	< 1.05E-03	< 1.12E-03

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Table I.1-30
Extruder SBR Locations A and B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 7.71E-08	< 9.94E-08	< 8.65E-08	< 8.77E-08
Methyl Mercaptan	74-93-1	< 6.21E-08	< 8.01E-08	< 6.97E-08	< 7.07E-08
Ethyl Mercaptan	75-08-1	< 7.86E-08	< 1.01E-07	< 8.83E-08	< 8.94E-08
Dimethyl Sulfide	75-18-3	< 7.86E-08	< 1.01E-07	< 8.83E-08	< 8.94E-08
Carbon Disulfide	75-15-0	< 4.88E-08	8.58E-08	< 1.23E-07	< 8.57E-08
Isopropyl Mercaptan	75-33-2	< 9.44E-08	< 1.22E-07	< 1.06E-07	< 1.07E-07
tert-Butyl Mercaptan	75-66-1	< 1.18E-07	< 1.52E-07	< 1.32E-07	< 1.34E-07
n-Propyl Mercaptan	107-03-9	< 9.44E-08	< 1.22E-07	< 1.06E-07	< 1.07E-07
Ethyl Methyl Sulfide	624-89-5	< 9.44E-08	< 1.22E-07	< 1.06E-07	< 1.07E-07
Thiophene	110-02-1	< 1.10E-07	< 1.42E-07	< 1.24E-07	< 1.25E-07
Isobutyl Mercaptan	513-44-0	< 1.18E-07	< 1.52E-07	< 1.32E-07	< 1.34E-07
Diethyl Sulfide	352-93-2	< 1.18E-07	< 1.52E-07	< 1.32E-07	< 1.34E-07
n-Butyl Mercaptan	109-79-5	< 1.18E-07	< 1.52E-07	< 1.32E-07	< 1.34E-07
Dimethyl Disulfide	624-92-0	< 6.06E-08	< 7.81E-08	< 6.80E-08	< 6.89E-08
3-Methylthiophene	616-44-4	< 1.26E-07	< 1.62E-07	< 1.41E-07	< 1.43E-07
Tetrahydrothiophene	110-01-0	< 1.10E-07	< 1.42E-07	< 1.24E-07	< 1.25E-07
2-Ethylthiophene	872-55-9	< 1.42E-07	< 1.83E-07	< 1.59E-07	< 1.61E-07
2-5,Dimethylthiophene	638-02-8	< 1.42E-07	< 1.83E-07	< 1.59E-07	< 1.61E-07
Diethyl Disulfide	110-81-6	< 7.86E-08	< 1.01E-07	< 8.83E-08	< 8.94E-08
Total Detected		0.00E+00	8.58E-08	0.00E+00	0.00E+00
Total with non-detects		< 1.87E-06	< 2.43E-06	< 2.17E-06	< 2.16E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 8.22E-08	< 9.95E-08	< 9.24E-08	< 9.14E-08
Methyl Mercaptan	74-93-1	< 6.63E-08	< 8.02E-08	< 7.45E-08	< 7.37E-08
Ethyl Mercaptan	75-08-1	< 8.39E-08	< 1.02E-07	< 9.43E-08	< 9.32E-08
Dimethyl Sulfide	75-18-3	< 8.39E-08	< 1.02E-07	< 9.43E-08	< 9.32E-08
Carbon Disulfide	75-15-0	< 5.20E-08	8.59E-08	< 1.31E-07	< 8.96E-08
Isopropyl Mercaptan	75-33-2	< 1.01E-07	< 1.22E-07	< 1.13E-07	< 1.12E-07
tert-Butyl Mercaptan	75-66-1	< 1.26E-07	< 1.52E-07	< 1.41E-07	< 1.40E-07
n-Propyl Mercaptan	107-03-9	< 1.01E-07	< 1.22E-07	< 1.13E-07	< 1.12E-07
Ethyl Methyl Sulfide	624-89-5	< 1.01E-07	< 1.22E-07	< 1.13E-07	< 1.12E-07
Thiophene	110-02-1	< 1.17E-07	< 1.42E-07	< 1.32E-07	< 1.31E-07
Isobutyl Mercaptan	513-44-0	< 1.26E-07	< 1.52E-07	< 1.41E-07	< 1.40E-07
Diethyl Sulfide	352-93-2	< 1.26E-07	< 1.52E-07	< 1.41E-07	< 1.40E-07
n-Butyl Mercaptan	109-79-5	< 1.26E-07	< 1.52E-07	< 1.41E-07	< 1.40E-07
Dimethyl Disulfide	624-92-0	< 6.46E-08	< 7.82E-08	< 7.26E-08	< 7.18E-08
3-Methylthiophene	616-44-4	< 1.34E-07	< 1.62E-07	< 1.51E-07	< 1.49E-07
Tetrahydrothiophene	110-01-0	< 1.17E-07	< 1.42E-07	< 1.32E-07	< 1.31E-07
2-Ethylthiophene	872-55-9	< 1.51E-07	< 1.83E-07	< 1.70E-07	< 1.68E-07
2-5,Dimethylthiophene	638-02-8	< 1.51E-07	< 1.83E-07	< 1.70E-07	< 1.68E-07
Diethyl Disulfide	110-81-6	< 8.39E-08	< 1.02E-07	< 9.43E-08	< 9.32E-08
Total Detected		0.00E+00	8.59E-08	0.00E+00	0.00E+00
Total with non-detects		< 1.99E-06	< 2.44E-06	< 2.31E-06	< 2.25E-06

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Table I.1-31
Extruder SBR Location A Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10	< 10	< 10	< 10
Dimethyl Sulfide	75-18-3	< 10	< 10	< 10	< 10
Carbon Disulfide	75-15-0	< 6.2	20.3	< 6.2	< 10.9
Isopropyl Mercaptan	75-33-2	< 12	< 12	< 12	< 12
tert-Butyl Mercaptan	75-66-1	< 15	< 15	< 15	< 15
n-Propyl Mercaptan	107-03-9	< 12	< 12	< 12	< 12
Ethyl Methyl Sulfide	624-89-5	< 12	< 12	< 12	< 12
Thiophene	110-02-1	< 14	< 14	< 14	< 14
Isobutyl Mercaptan	513-44-0	< 15	< 15	< 15	< 15
Diethyl Sulfide	352-93-2	< 15	< 15	< 15	< 15
n-Butyl Mercaptan	109-79-5	< 15	< 15	< 15	< 15
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16	< 16	< 16	< 16
Tetrahydrothiophene	110-01-0	< 14	< 14	< 14	< 14
2-Ethylthiophene	872-55-9	< 18	< 18	< 18	< 18
2-5,Dimethylthiophene	638-02-8	< 18	< 18	< 18	< 18
Diethyl Disulfide	110-81-6	< 10	< 10	< 10	< 10
Total Detected		0	20.3	0	0
Total with non-detects		< 237.6	< 251.7	< 237.6	< 242.3
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 2.43E-05	< 2.02E-05	< 2.28E-05	< 2.24E-05
Methyl Mercaptan	74-93-1	< 1.96E-05	< 1.63E-05	< 1.84E-05	< 1.81E-05
Ethyl Mercaptan	75-08-1	< 2.48E-05	< 2.06E-05	< 2.33E-05	< 2.29E-05
Dimethyl Sulfide	75-18-3	< 2.48E-05	< 2.06E-05	< 2.33E-05	< 2.29E-05
Carbon Disulfide	75-15-0	< 1.54E-05	4.19E-05	< 4.73E-05	< 3.49E-05
Isopropyl Mercaptan	75-33-2	< 2.97E-05	< 2.48E-05	< 2.80E-05	< 2.75E-05
tert-Butyl Mercaptan	75-66-1	< 3.72E-05	< 3.09E-05	< 3.50E-05	< 3.44E-05
n-Propyl Mercaptan	107-03-9	< 2.97E-05	< 2.48E-05	< 2.80E-05	< 2.75E-05
Ethyl Methyl Sulfide	624-89-5	< 2.97E-05	< 2.48E-05	< 2.80E-05	< 2.75E-05
Thiophene	110-02-1	< 3.47E-05	< 2.89E-05	< 3.26E-05	< 3.21E-05
Isobutyl Mercaptan	513-44-0	< 3.72E-05	< 3.09E-05	< 3.50E-05	< 3.44E-05
Diethyl Sulfide	352-93-2	< 3.72E-05	< 3.09E-05	< 3.50E-05	< 3.44E-05
n-Butyl Mercaptan	109-79-5	< 3.72E-05	< 3.09E-05	< 3.50E-05	< 3.44E-05
Dimethyl Disulfide	624-92-0	< 1.91E-05	< 1.59E-05	< 1.80E-05	< 1.76E-05
3-Methylthiophene	616-44-4	< 3.96E-05	< 3.30E-05	< 3.73E-05	< 3.67E-05
Tetrahydrothiophene	110-01-0	< 3.47E-05	< 2.89E-05	< 3.26E-05	< 3.21E-05
2-Ethylthiophene	872-55-9	< 4.46E-05	< 3.71E-05	< 4.20E-05	< 4.12E-05
2-5,Dimethylthiophene	638-02-8	< 4.46E-05	< 3.71E-05	< 4.20E-05	< 4.12E-05
Diethyl Disulfide	110-81-6	< 2.48E-05	< 2.06E-05	< 2.33E-05	< 2.29E-05
Total Detected		0.00E+00	4.19E-05	0.00E+00	0.00E+00
Total with non-detects		< 5.89E-04	< 5.19E-04	< 5.87E-04	< 5.65E-04

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Table I.1-31
Extruder SBR Location A Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 4.05E-08	< 4.14E-08	< 4.72E-08	< 4E-08
Methyl Mercaptan	74-93-1	< 3.27E-08	< 3.34E-08	< 3.80E-08	< 3E-08
Ethyl Mercaptan	75-08-1	< 4.13E-08	< 4.23E-08	< 4.81E-08	< 4E-08
Dimethyl Sulfide	75-18-3	< 4.13E-08	< 4.23E-08	< 4.81E-08	< 4E-08
Carbon Disulfide	75-15-0	< 2.56E-08	8.58E-08	< 9.77E-08	< 7E-08
Isopropyl Mercaptan	75-33-2	< 4.96E-08	< 5.07E-08	< 5.77E-08	< 5E-08
tert-Butyl Mercaptan	75-66-1	< 6.20E-08	< 6.34E-08	< 7.22E-08	< 7E-08
n-Propyl Mercaptan	107-03-9	< 4.96E-08	< 5.07E-08	< 5.77E-08	< 5E-08
Ethyl Methyl Sulfide	624-89-5	< 4.96E-08	< 5.07E-08	< 5.77E-08	< 5E-08
Thiophene	110-02-1	< 5.79E-08	< 5.92E-08	< 6.74E-08	< 6E-08
Isobutyl Mercaptan	513-44-0	< 6.20E-08	< 6.34E-08	< 7.22E-08	< 7E-08
Diethyl Sulfide	352-93-2	< 6.20E-08	< 6.34E-08	< 7.22E-08	< 7E-08
n-Butyl Mercaptan	109-79-5	< 6.20E-08	< 6.34E-08	< 7.22E-08	< 7E-08
Dimethyl Disulfide	624-92-0	< 3.18E-08	< 3.25E-08	< 3.71E-08	< 3E-08
3-Methylthiophene	616-44-4	< 6.61E-08	< 6.76E-08	< 7.70E-08	< 7E-08
Tetrahydrothiophene	110-01-0	< 5.79E-08	< 5.92E-08	< 6.74E-08	< 6E-08
2-Ethylthiophene	872-55-9	< 7.44E-08	< 7.61E-08	< 8.66E-08	< 8E-08
2-5,Dimethylthiophene	638-02-8	< 7.44E-08	< 7.61E-08	< 8.66E-08	< 8E-08
Diethyl Disulfide	110-81-6	< 4.13E-08	< 4.23E-08	< 4.81E-08	< 4E-08
Total Detected		0.00E+00	8.58E-08	0.00E+00	0.00E+00
Total with non-detects		< 9.82E-07	< 1.06E-06	< 1.21E-06	< 1.09E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 4.32E-08	< 4.15E-08	< 5.04E-08	< 5E-08
Methyl Mercaptan	74-93-1	< 3.48E-08	< 3.34E-08	< 4.06E-08	< 4E-08
Ethyl Mercaptan	75-08-1	< 4.41E-08	< 4.23E-08	< 5.14E-08	< 5E-08
Dimethyl Sulfide	75-18-3	< 4.41E-08	< 4.23E-08	< 5.14E-08	< 5E-08
Carbon Disulfide	75-15-0	< 2.73E-08	8.59E-08	< 1.04E-07	< 7E-08
Isopropyl Mercaptan	75-33-2	< 5.29E-08	< 5.08E-08	< 6.17E-08	< 6E-08
tert-Butyl Mercaptan	75-66-1	< 6.61E-08	< 6.35E-08	< 7.71E-08	< 7E-08
n-Propyl Mercaptan	107-03-9	< 5.29E-08	< 5.08E-08	< 6.17E-08	< 6E-08
Ethyl Methyl Sulfide	624-89-5	< 5.29E-08	< 5.08E-08	< 6.17E-08	< 6E-08
Thiophene	110-02-1	< 6.17E-08	< 5.92E-08	< 7.19E-08	< 6E-08
Isobutyl Mercaptan	513-44-0	< 6.61E-08	< 6.35E-08	< 7.71E-08	< 7E-08
Diethyl Sulfide	352-93-2	< 6.61E-08	< 6.35E-08	< 7.71E-08	< 7E-08
n-Butyl Mercaptan	109-79-5	< 6.61E-08	< 6.35E-08	< 7.71E-08	< 7E-08
Dimethyl Disulfide	624-92-0	< 3.40E-08	< 3.26E-08	< 3.96E-08	< 4E-08
3-Methylthiophene	616-44-4	< 7.06E-08	< 6.77E-08	< 8.22E-08	< 7E-08
Tetrahydrothiophene	110-01-0	< 6.17E-08	< 5.92E-08	< 7.19E-08	< 6E-08
2-Ethylthiophene	872-55-9	< 7.94E-08	< 7.62E-08	< 9.25E-08	< 8E-08
2-5,Dimethylthiophene	638-02-8	< 7.94E-08	< 7.62E-08	< 9.25E-08	< 8E-08
Diethyl Disulfide	110-81-6	< 4.41E-08	< 4.23E-08	< 5.14E-08	< 5E-08
Total Detected		0.00E+00	8.59E-08	0.00E+00	0.00E+00
Total with non-detects		< 1.05E-06	< 1.07E-06	< 1.29E-06	< 1.14E-06

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Table I.1-32
Extruder SBR Location B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10	< 10	< 10	< 10
Dimethyl Sulfide	75-18-3	< 10	< 10	< 10	< 10
Carbon Disulfide	75-15-0	< 6.2	< 6.2	< 6.2	< 6.2
Isopropyl Mercaptan	75-33-2	< 12	< 12	< 12	< 12
tert-Butyl Mercaptan	75-66-1	< 15	< 15	< 15	< 15
n-Propyl Mercaptan	107-03-9	< 12	< 12	< 12	< 12
Ethyl Methyl Sulfide	624-89-5	< 12	< 12	< 12	< 12
Thiophene	110-02-1	< 14	< 14	< 14	< 14
Isobutyl Mercaptan	513-44-0	< 15	< 15	< 15	< 15
Diethyl Sulfide	352-93-2	< 15	< 15	< 15	< 15
n-Butyl Mercaptan	109-79-5	< 15	< 15	< 15	< 15
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16	< 16	< 16	< 16
Tetrahydrothiophene	110-01-0	< 14	< 14	< 14	< 14
2-Ethylthiophene	872-55-9	< 18	< 18	< 18	< 18
2-5,Dimethylthiophene	638-02-8	< 18	< 18	< 18	< 18
Diethyl Disulfide	110-81-6	< 10	< 10	< 10	< 10
Total Detected		0	0	0	0
Total with non-detects		< 237.6	< 237.6	< 237.6	< 237.6
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 2.19E-05	< 2.83E-05	< 1.91E-05	< 2.31E-05
Methyl Mercaptan	74-93-1	< 1.77E-05	< 2.28E-05	< 1.54E-05	< 1.86E-05
Ethyl Mercaptan	75-08-1	< 2.24E-05	< 2.89E-05	< 1.95E-05	< 2.36E-05
Dimethyl Sulfide	75-18-3	< 2.24E-05	< 2.89E-05	< 1.95E-05	< 2.36E-05
Carbon Disulfide	75-15-0	< 1.39E-05	< 1.79E-05	< 1.21E-05	< 1.46E-05
Isopropyl Mercaptan	75-33-2	< 2.68E-05	< 3.46E-05	< 2.34E-05	< 2.83E-05
tert-Butyl Mercaptan	75-66-1	< 3.35E-05	< 4.33E-05	< 2.92E-05	< 3.53E-05
n-Propyl Mercaptan	107-03-9	< 2.68E-05	< 3.46E-05	< 2.34E-05	< 2.83E-05
Ethyl Methyl Sulfide	624-89-5	< 2.68E-05	< 3.46E-05	< 2.34E-05	< 2.83E-05
Thiophene	110-02-1	< 3.13E-05	< 4.04E-05	< 2.72E-05	< 3.30E-05
Isobutyl Mercaptan	513-44-0	< 3.35E-05	< 4.33E-05	< 2.92E-05	< 3.53E-05
Diethyl Sulfide	352-93-2	< 3.35E-05	< 4.33E-05	< 2.92E-05	< 3.53E-05
n-Butyl Mercaptan	109-79-5	< 3.35E-05	< 4.33E-05	< 2.92E-05	< 3.53E-05
Dimethyl Disulfide	624-92-0	< 1.72E-05	< 2.22E-05	< 1.50E-05	< 1.81E-05
3-Methylthiophene	616-44-4	< 3.58E-05	< 4.62E-05	< 3.11E-05	< 3.77E-05
Tetrahydrothiophene	110-01-0	< 3.13E-05	< 4.04E-05	< 2.72E-05	< 3.30E-05
2-Ethylthiophene	872-55-9	< 4.03E-05	< 5.20E-05	< 3.50E-05	< 4.24E-05
2-5,Dimethylthiophene	638-02-8	< 4.03E-05	< 5.20E-05	< 3.50E-05	< 4.24E-05
Diethyl Disulfide	110-81-6	< 2.24E-05	< 2.89E-05	< 1.95E-05	< 2.36E-05
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 5.31E-04	< 6.86E-04	< 4.62E-04	< 5.60E-04

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Table I.1-32
Extruder SBR Location B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 3.66E-08	< 5.80E-08	< 3.94E-08	< 4.46E-08
Methyl Mercaptan	74-93-1	< 2.95E-08	< 4.67E-08	< 3.17E-08	< 3.60E-08
Ethyl Mercaptan	75-08-1	< 3.73E-08	< 5.91E-08	< 4.02E-08	< 4.55E-08
Dimethyl Sulfide	75-18-3	< 3.73E-08	< 5.91E-08	< 4.02E-08	< 4.55E-08
Carbon Disulfide	75-15-0	< 2.31E-08	< 3.67E-08	< 2.49E-08	< 2.82E-08
Isopropyl Mercaptan	75-33-2	< 4.48E-08	< 7.10E-08	< 4.82E-08	< 5.46E-08
tert-Butyl Mercaptan	75-66-1	< 5.60E-08	< 8.87E-08	< 6.02E-08	< 6.83E-08
n-Propyl Mercaptan	107-03-9	< 4.48E-08	< 7.10E-08	< 4.82E-08	< 5.46E-08
Ethyl Methyl Sulfide	624-89-5	< 4.48E-08	< 7.10E-08	< 4.82E-08	< 5.46E-08
Thiophene	110-02-1	< 5.22E-08	< 8.28E-08	< 5.62E-08	< 6.38E-08
Isobutyl Mercaptan	513-44-0	< 5.60E-08	< 8.87E-08	< 6.02E-08	< 6.83E-08
Diethyl Sulfide	352-93-2	< 5.60E-08	< 8.87E-08	< 6.02E-08	< 6.83E-08
n-Butyl Mercaptan	109-79-5	< 5.60E-08	< 8.87E-08	< 6.02E-08	< 6.83E-08
Dimethyl Disulfide	624-92-0	< 2.87E-08	< 4.55E-08	< 3.09E-08	< 3.51E-08
3-Methylthiophene	616-44-4	< 5.97E-08	< 9.46E-08	< 6.43E-08	< 7.29E-08
Tetrahydrothiophene	110-01-0	< 5.22E-08	< 8.28E-08	< 5.62E-08	< 6.38E-08
2-Ethylthiophene	872-55-9	< 6.72E-08	< 1.06E-07	< 7.23E-08	< 8.20E-08
2-5,Dimethylthiophene	638-02-8	< 6.72E-08	< 1.06E-07	< 7.23E-08	< 8.20E-08
Diethyl Disulfide	110-81-6	< 3.73E-08	< 5.91E-08	< 4.02E-08	< 4.55E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 8.86E-07	< 1.41E-06	< 9.54E-07	< 1.08E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 3.90E-08	< 5.80E-08	< 4.20E-08	< 4.64E-08
Methyl Mercaptan	74-93-1	< 3.14E-08	< 4.68E-08	< 3.39E-08	< 3.74E-08
Ethyl Mercaptan	75-08-1	< 3.98E-08	< 5.92E-08	< 4.29E-08	< 4.73E-08
Dimethyl Sulfide	75-18-3	< 3.98E-08	< 5.92E-08	< 4.29E-08	< 4.73E-08
Carbon Disulfide	75-15-0	< 2.47E-08	< 3.67E-08	< 2.66E-08	< 2.93E-08
Isopropyl Mercaptan	75-33-2	< 4.78E-08	< 7.10E-08	< 5.15E-08	< 5.68E-08
tert-Butyl Mercaptan	75-66-1	< 5.97E-08	< 8.88E-08	< 6.43E-08	< 7.09E-08
n-Propyl Mercaptan	107-03-9	< 4.78E-08	< 7.10E-08	< 5.15E-08	< 5.68E-08
Ethyl Methyl Sulfide	624-89-5	< 4.78E-08	< 7.10E-08	< 5.15E-08	< 5.68E-08
Thiophene	110-02-1	< 5.57E-08	< 8.29E-08	< 6.01E-08	< 6.62E-08
Isobutyl Mercaptan	513-44-0	< 5.97E-08	< 8.88E-08	< 6.43E-08	< 7.09E-08
Diethyl Sulfide	352-93-2	< 5.97E-08	< 8.88E-08	< 6.43E-08	< 7.09E-08
n-Butyl Mercaptan	109-79-5	< 5.97E-08	< 8.88E-08	< 6.43E-08	< 7.09E-08
Dimethyl Disulfide	624-92-0	< 3.06E-08	< 4.56E-08	< 3.30E-08	< 3.64E-08
3-Methylthiophene	616-44-4	< 6.37E-08	< 9.47E-08	< 6.86E-08	< 7.57E-08
Tetrahydrothiophene	110-01-0	< 5.57E-08	< 8.29E-08	< 6.01E-08	< 6.62E-08
2-Ethylthiophene	872-55-9	< 7.16E-08	< 1.07E-07	< 7.72E-08	< 8.51E-08
2-5,Dimethylthiophene	638-02-8	< 7.16E-08	< 1.07E-07	< 7.72E-08	< 8.51E-08
Diethyl Disulfide	110-81-6	< 3.98E-08	< 5.92E-08	< 4.29E-08	< 4.73E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 9.46E-07	< 1.41E-06	< 1.02E-06	< 1.12E-06

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Table I.1-33
Extruder Sidewall Locations A and B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 19.6	< 19.6	< 19.6	< 19.6
Methyl Mercaptan	74-93-1	< 15.8	< 15.8	< 15.8	< 15.8
Ethyl Mercaptan	75-08-1	< 20	< 20	< 20	< 20
Dimethyl Sulfide	75-18-3	< 20	< 20	< 20	< 20
Carbon Disulfide	75-15-0	< 12.4	< 12.4	< 12.4	< 12.4
Isopropyl Mercaptan	75-33-2	< 24	< 24	< 24	< 24
tert-Butyl Mercaptan	75-66-1	< 30	< 30	< 30	< 30
n-Propyl Mercaptan	107-03-9	< 24	< 24	< 24	< 24
Ethyl Methyl Sulfide	624-89-5	< 24	< 24	< 24	< 24
Thiophene	110-02-1	< 28	< 28	< 28	< 28
Isobutyl Mercaptan	513-44-0	< 30	< 30	< 30	< 30
Diethyl Sulfide	352-93-2	< 30	< 30	< 30	< 30
n-Butyl Mercaptan	109-79-5	< 30	< 30	< 30	< 30
Dimethyl Disulfide	624-92-0	< 15.4	< 15.4	< 15.4	< 15.4
3-Methylthiophene	616-44-4	< 32	< 32	< 32	< 32
Tetrahydrothiophene	110-01-0	< 28	< 28	< 28	< 28
2-Ethylthiophene	872-55-9	< 36	< 36	< 36	< 36
2-5,Dimethylthiophene	638-02-8	< 36	< 36	< 36	< 36
Diethyl Disulfide	110-81-6	< 20	< 20	< 20	< 20
Total Detected		0	0	0	0
Total with non-detects		< 475.2	< 475.2	< 475.2	< 475.2
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 3.66E-05	< 3.65E-05	< 3.81E-05	< 3.71E-05
Methyl Mercaptan	74-93-1	< 2.95E-05	< 3.44E-05	< 3.07E-05	< 3.15E-05
Ethyl Mercaptan	75-08-1	< 3.73E-05	< 4.35E-05	< 3.89E-05	< 3.99E-05
Dimethyl Sulfide	75-18-3	< 3.73E-05	< 4.35E-05	< 3.89E-05	< 3.99E-05
Carbon Disulfide	75-15-0	< 2.32E-05	< 2.70E-05	< 2.41E-05	< 2.48E-05
Isopropyl Mercaptan	75-33-2	< 4.48E-05	< 5.22E-05	< 4.67E-05	< 4.79E-05
tert-Butyl Mercaptan	75-66-1	< 5.60E-05	< 6.53E-05	< 5.83E-05	< 5.99E-05
n-Propyl Mercaptan	107-03-9	< 4.48E-05	< 5.22E-05	< 4.67E-05	< 4.79E-05
Ethyl Methyl Sulfide	624-89-5	< 4.48E-05	< 5.22E-05	< 4.67E-05	< 4.79E-05
Thiophene	110-02-1	< 5.23E-05	< 6.09E-05	< 5.44E-05	< 5.59E-05
Isobutyl Mercaptan	513-44-0	< 5.60E-05	< 6.53E-05	< 5.83E-05	< 5.99E-05
Diethyl Sulfide	352-93-2	< 5.60E-05	< 6.53E-05	< 5.83E-05	< 5.99E-05
n-Butyl Mercaptan	109-79-5	< 5.60E-05	< 6.53E-05	< 5.83E-05	< 5.99E-05
Dimethyl Disulfide	624-92-0	< 2.88E-05	< 3.35E-05	< 2.99E-05	< 3.07E-05
3-Methylthiophene	616-44-4	< 5.98E-05	< 6.96E-05	< 6.22E-05	< 6.39E-05
Tetrahydrothiophene	110-01-0	< 5.23E-05	< 6.09E-05	< 5.44E-05	< 5.59E-05
2-Ethylthiophene	872-55-9	< 6.72E-05	< 7.84E-05	< 7.00E-05	< 7.19E-05
2-5,Dimethylthiophene	638-02-8	< 6.72E-05	< 7.84E-05	< 7.00E-05	< 7.19E-05
Diethyl Disulfide	110-81-6	< 3.73E-05	< 4.35E-05	< 3.89E-05	< 3.99E-05
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 8.87E-04	< 1.03E-03	< 9.24E-04	< 9.46E-04

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Table I.1-33
Extruder Sidewall Locations A and B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 1.36E-07	< 1.24E-07	< 1.40E-07	< 1.33E-07
Methyl Mercaptan	74-93-1	< 1.09E-07	< 1.17E-07	< 1.13E-07	< 1.13E-07
Ethyl Mercaptan	75-08-1	< 1.39E-07	< 1.48E-07	< 1.42E-07	< 1.43E-07
Dimethyl Sulfide	75-18-3	< 1.39E-07	< 1.48E-07	< 1.42E-07	< 1.43E-07
Carbon Disulfide	75-15-0	< 8.59E-08	< 9.17E-08	< 8.83E-08	< 8.87E-08
Isopropyl Mercaptan	75-33-2	< 1.66E-07	< 1.78E-07	< 1.71E-07	< 1.72E-07
tert-Butyl Mercaptan	75-66-1	< 2.08E-07	< 2.22E-07	< 2.14E-07	< 2.14E-07
n-Propyl Mercaptan	107-03-9	< 1.66E-07	< 1.78E-07	< 1.71E-07	< 1.72E-07
Ethyl Methyl Sulfide	624-89-5	< 1.66E-07	< 1.78E-07	< 1.71E-07	< 1.72E-07
Thiophene	110-02-1	< 1.94E-07	< 2.07E-07	< 1.99E-07	< 2.00E-07
Isobutyl Mercaptan	513-44-0	< 2.08E-07	< 2.22E-07	< 2.14E-07	< 2.14E-07
Diethyl Sulfide	352-93-2	< 2.08E-07	< 2.22E-07	< 2.14E-07	< 2.14E-07
n-Butyl Mercaptan	109-79-5	< 2.08E-07	< 2.22E-07	< 2.14E-07	< 2.14E-07
Dimethyl Disulfide	624-92-0	< 1.07E-07	< 1.14E-07	< 1.10E-07	< 1.10E-07
3-Methylthiophene	616-44-4	< 2.22E-07	< 2.37E-07	< 2.28E-07	< 2.29E-07
Tetrahydrothiophene	110-01-0	< 1.94E-07	< 2.07E-07	< 1.99E-07	< 2.00E-07
2-Ethylthiophene	872-55-9	< 2.49E-07	< 2.66E-07	< 2.56E-07	< 2.57E-07
2-5,Dimethylthiophene	638-02-8	< 2.49E-07	< 2.66E-07	< 2.56E-07	< 2.57E-07
Diethyl Disulfide	110-81-6	< 1.39E-07	< 1.48E-07	< 1.42E-07	< 1.43E-07
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 3.29E-06	< 3.49E-06	< 3.38E-06	< 3.39E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 7.51E-08	< 7.48E-08	< 7.82E-08	< 7.60E-08
Methyl Mercaptan	74-93-1	< 6.05E-08	< 7.05E-08	< 6.30E-08	< 6.47E-08
Ethyl Mercaptan	75-08-1	< 7.66E-08	< 8.93E-08	< 7.98E-08	< 8.19E-08
Dimethyl Sulfide	75-18-3	< 7.66E-08	< 8.93E-08	< 7.98E-08	< 8.19E-08
Carbon Disulfide	75-15-0	< 4.75E-08	< 5.54E-08	< 4.95E-08	< 5.08E-08
Isopropyl Mercaptan	75-33-2	< 9.19E-08	< 1.07E-07	< 9.57E-08	< 9.83E-08
tert-Butyl Mercaptan	75-66-1	< 1.15E-07	< 1.34E-07	< 1.20E-07	< 1.23E-07
n-Propyl Mercaptan	107-03-9	< 9.19E-08	< 1.07E-07	< 9.57E-08	< 9.83E-08
Ethyl Methyl Sulfide	624-89-5	< 9.19E-08	< 1.07E-07	< 9.57E-08	< 9.83E-08
Thiophene	110-02-1	< 1.07E-07	< 1.25E-07	< 1.12E-07	< 1.15E-07
Isobutyl Mercaptan	513-44-0	< 1.15E-07	< 1.34E-07	< 1.20E-07	< 1.23E-07
Diethyl Sulfide	352-93-2	< 1.15E-07	< 1.34E-07	< 1.20E-07	< 1.23E-07
n-Butyl Mercaptan	109-79-5	< 1.15E-07	< 1.34E-07	< 1.20E-07	< 1.23E-07
Dimethyl Disulfide	624-92-0	< 5.90E-08	< 6.88E-08	< 6.14E-08	< 6.31E-08
3-Methylthiophene	616-44-4	< 1.23E-07	< 1.43E-07	< 1.28E-07	< 1.31E-07
Tetrahydrothiophene	110-01-0	< 1.07E-07	< 1.25E-07	< 1.12E-07	< 1.15E-07
2-Ethylthiophene	872-55-9	< 1.38E-07	< 1.61E-07	< 1.44E-07	< 1.47E-07
2-5,Dimethylthiophene	638-02-8	< 1.38E-07	< 1.61E-07	< 1.44E-07	< 1.47E-07
Diethyl Disulfide	110-81-6	< 7.66E-08	< 8.93E-08	< 7.98E-08	< 8.19E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 1.82E-06	< 2.11E-06	< 1.90E-06	< 1.94E-06

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Table I.1-34
Extruder Sidewall Location A Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10	< 10	< 10	< 10
Dimethyl Sulfide	75-18-3	< 10	< 10	< 10	< 10
Carbon Disulfide	75-15-0	< 6.2	< 6.2	< 6.2	< 6.2
Isopropyl Mercaptan	75-33-2	< 12	< 12	< 12	< 12
tert-Butyl Mercaptan	75-66-1	< 15	< 15	< 15	< 15
n-Propyl Mercaptan	107-03-9	< 12	< 12	< 12	< 12
Ethyl Methyl Sulfide	624-89-5	< 12	< 12	< 12	< 12
Thiophene	110-02-1	< 14	< 14	< 14	< 14
Isobutyl Mercaptan	513-44-0	< 15	< 15	< 15	< 15
Diethyl Sulfide	352-93-2	< 15	< 15	< 15	< 15
n-Butyl Mercaptan	109-79-5	< 15	< 15	< 15	< 15
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16	< 16	< 16	< 16
Tetrahydrothiophene	110-01-0	< 14	< 14	< 14	< 14
2-Ethylthiophene	872-55-9	< 18	< 18	< 18	< 18
2-5,Dimethylthiophene	638-02-8	< 18	< 18	< 18	< 18
Diethyl Disulfide	110-81-6	< 10	< 10	< 10	< 10
Total Detected		0	0	0	0
Total with non-detects		< 237.6	< 237.6	< 237.6	< 237.6
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 1.83E-05	< 1.82E-05	< 1.91E-05	< 1.85E-05
Methyl Mercaptan	74-93-1	< 1.48E-05	< 1.47E-05	< 1.54E-05	< 1.49E-05
Ethyl Mercaptan	75-08-1	< 1.87E-05	< 1.86E-05	< 1.94E-05	< 1.89E-05
Dimethyl Sulfide	75-18-3	< 1.87E-05	< 1.86E-05	< 1.94E-05	< 1.89E-05
Carbon Disulfide	75-15-0	< 1.16E-05	< 1.15E-05	< 1.21E-05	< 1.17E-05
Isopropyl Mercaptan	75-33-2	< 2.24E-05	< 2.23E-05	< 2.33E-05	< 2.27E-05
tert-Butyl Mercaptan	75-66-1	< 2.80E-05	< 2.79E-05	< 2.92E-05	< 2.84E-05
n-Propyl Mercaptan	107-03-9	< 2.24E-05	< 2.23E-05	< 2.33E-05	< 2.27E-05
Ethyl Methyl Sulfide	624-89-5	< 2.24E-05	< 2.23E-05	< 2.33E-05	< 2.27E-05
Thiophene	110-02-1	< 2.61E-05	< 2.60E-05	< 2.72E-05	< 2.65E-05
Isobutyl Mercaptan	513-44-0	< 2.80E-05	< 2.79E-05	< 2.92E-05	< 2.84E-05
Diethyl Sulfide	352-93-2	< 2.80E-05	< 2.79E-05	< 2.92E-05	< 2.84E-05
n-Butyl Mercaptan	109-79-5	< 2.80E-05	< 2.79E-05	< 2.92E-05	< 2.84E-05
Dimethyl Disulfide	624-92-0	< 1.44E-05	< 1.43E-05	< 1.50E-05	< 1.46E-05
3-Methylthiophene	616-44-4	< 2.99E-05	< 2.98E-05	< 3.11E-05	< 3.02E-05
Tetrahydrothiophene	110-01-0	< 2.61E-05	< 2.60E-05	< 2.72E-05	< 2.65E-05
2-Ethylthiophene	872-55-9	< 3.36E-05	< 3.35E-05	< 3.50E-05	< 3.40E-05
2-5,Dimethylthiophene	638-02-8	< 3.36E-05	< 3.35E-05	< 3.50E-05	< 3.40E-05
Diethyl Disulfide	110-81-6	< 1.87E-05	< 1.86E-05	< 1.94E-05	< 1.89E-05
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 4.44E-04	< 4.42E-04	< 4.62E-04	< 4.49E-04

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Table I.1-34
Extruder Sidewall Location A Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 6.79E-08	< 6.20E-08	< 6.98E-08	< 6.66E-08
Methyl Mercaptan	74-93-1	< 5.47E-08	< 4.99E-08	< 5.63E-08	< 5.36E-08
Ethyl Mercaptan	75-08-1	< 6.93E-08	< 6.32E-08	< 7.12E-08	< 6.79E-08
Dimethyl Sulfide	75-18-3	< 6.93E-08	< 6.32E-08	< 7.12E-08	< 6.79E-08
Carbon Disulfide	75-15-0	< 4.30E-08	< 3.92E-08	< 4.42E-08	< 4.21E-08
Isopropyl Mercaptan	75-33-2	< 8.31E-08	< 7.59E-08	< 8.55E-08	< 8.15E-08
tert-Butyl Mercaptan	75-66-1	< 1.04E-07	< 9.48E-08	< 1.07E-07	< 1.02E-07
n-Propyl Mercaptan	107-03-9	< 8.31E-08	< 7.59E-08	< 8.55E-08	< 8.15E-08
Ethyl Methyl Sulfide	624-89-5	< 8.31E-08	< 7.59E-08	< 8.55E-08	< 8.15E-08
Thiophene	110-02-1	< 9.70E-08	< 8.85E-08	< 9.97E-08	< 9.51E-08
Isobutyl Mercaptan	513-44-0	< 1.04E-07	< 9.48E-08	< 1.07E-07	< 1.02E-07
Diethyl Sulfide	352-93-2	< 1.04E-07	< 9.48E-08	< 1.07E-07	< 1.02E-07
n-Butyl Mercaptan	109-79-5	< 1.04E-07	< 9.48E-08	< 1.07E-07	< 1.02E-07
Dimethyl Disulfide	624-92-0	< 5.34E-08	< 4.87E-08	< 5.48E-08	< 5.23E-08
3-Methylthiophene	616-44-4	< 1.11E-07	< 1.01E-07	< 1.14E-07	< 1.09E-07
Tetrahydrothiophene	110-01-0	< 9.70E-08	< 8.85E-08	< 9.97E-08	< 9.51E-08
2-Ethylthiophene	872-55-9	< 1.25E-07	< 1.14E-07	< 1.28E-07	< 1.22E-07
2-5,Dimethylthiophene	638-02-8	< 1.25E-07	< 1.14E-07	< 1.28E-07	< 1.22E-07
Diethyl Disulfide	110-81-6	< 6.93E-08	< 6.32E-08	< 7.12E-08	< 6.79E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 1.65E-06	< 1.50E-06	< 1.69E-06	< 1.61E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 3.75E-08	< 3.74E-08	< 3.91E-08	< 3.80E-08
Methyl Mercaptan	74-93-1	< 3.03E-08	< 3.01E-08	< 3.15E-08	< 3.06E-08
Ethyl Mercaptan	75-08-1	< 3.83E-08	< 3.82E-08	< 3.99E-08	< 3.88E-08
Dimethyl Sulfide	75-18-3	< 3.83E-08	< 3.82E-08	< 3.99E-08	< 3.88E-08
Carbon Disulfide	75-15-0	< 2.37E-08	< 2.37E-08	< 2.47E-08	< 2.40E-08
Isopropyl Mercaptan	75-33-2	< 4.60E-08	< 4.58E-08	< 4.79E-08	< 4.65E-08
tert-Butyl Mercaptan	75-66-1	< 5.75E-08	< 5.72E-08	< 5.98E-08	< 5.82E-08
n-Propyl Mercaptan	107-03-9	< 4.60E-08	< 4.58E-08	< 4.79E-08	< 4.65E-08
Ethyl Methyl Sulfide	624-89-5	< 4.60E-08	< 4.58E-08	< 4.79E-08	< 4.65E-08
Thiophene	110-02-1	< 5.36E-08	< 5.34E-08	< 5.58E-08	< 5.43E-08
Isobutyl Mercaptan	513-44-0	< 5.75E-08	< 5.72E-08	< 5.98E-08	< 5.82E-08
Diethyl Sulfide	352-93-2	< 5.75E-08	< 5.72E-08	< 5.98E-08	< 5.82E-08
n-Butyl Mercaptan	109-79-5	< 5.75E-08	< 5.72E-08	< 5.98E-08	< 5.82E-08
Dimethyl Disulfide	624-92-0	< 2.95E-08	< 2.94E-08	< 3.07E-08	< 2.99E-08
3-Methylthiophene	616-44-4	< 6.13E-08	< 6.10E-08	< 6.38E-08	< 6.20E-08
Tetrahydrothiophene	110-01-0	< 5.36E-08	< 5.34E-08	< 5.58E-08	< 5.43E-08
2-Ethylthiophene	872-55-9	< 6.90E-08	< 6.87E-08	< 7.18E-08	< 6.98E-08
2-5,Dimethylthiophene	638-02-8	< 6.90E-08	< 6.87E-08	< 7.18E-08	< 6.98E-08
Diethyl Disulfide	110-81-6	< 3.83E-08	< 3.82E-08	< 3.99E-08	< 3.88E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 9.10E-07	< 9.06E-07	< 9.48E-07	< 9.21E-07

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Table I.1-35
Extruder Sidewall Location B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10	< 10	< 10	< 10
Dimethyl Sulfide	75-18-3	< 10	< 10	< 10	< 10
Carbon Disulfide	75-15-0	< 6.2	< 6.2	< 6.2	< 6.2
Isopropyl Mercaptan	75-33-2	< 12	< 12	< 12	< 12
tert-Butyl Mercaptan	75-66-1	< 15	< 15	< 15	< 15
n-Propyl Mercaptan	107-03-9	< 12	< 12	< 12	< 12
Ethyl Methyl Sulfide	624-89-5	< 12	< 12	< 12	< 12
Thiophene	110-02-1	< 14	< 14	< 14	< 14
Isobutyl Mercaptan	513-44-0	< 15	< 15	< 15	< 15
Diethyl Sulfide	352-93-2	< 15	< 15	< 15	< 15
n-Butyl Mercaptan	109-79-5	< 15	< 15	< 15	< 15
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16	< 16	< 16	< 16
Tetrahydrothiophene	110-01-0	< 14	< 14	< 14	< 14
2-Ethylthiophene	872-55-9	< 18	< 18	< 18	< 18
2-5,Dimethylthiophene	638-02-8	< 18	< 18	< 18	< 18
Diethyl Disulfide	110-81-6	< 10	< 10	< 10	< 10
Total Detected		0	0	0	0
Total with non-detects		< 237.6	< 237.6	< 237.6	< 237.6
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 1.83E-05	< 1.82E-05	< 1.91E-05	< 1.85E-05
Methyl Mercaptan	74-93-1	< 1.48E-05	< 1.97E-05	< 1.54E-05	< 1.66E-05
Ethyl Mercaptan	75-08-1	< 1.87E-05	< 2.49E-05	< 1.94E-05	< 2.10E-05
Dimethyl Sulfide	75-18-3	< 1.87E-05	< 2.49E-05	< 1.94E-05	< 2.10E-05
Carbon Disulfide	75-15-0	< 1.16E-05	< 1.55E-05	< 1.21E-05	< 1.30E-05
Isopropyl Mercaptan	75-33-2	< 2.24E-05	< 2.99E-05	< 2.33E-05	< 2.52E-05
tert-Butyl Mercaptan	75-66-1	< 2.80E-05	< 3.74E-05	< 2.92E-05	< 3.15E-05
n-Propyl Mercaptan	107-03-9	< 2.24E-05	< 2.99E-05	< 2.33E-05	< 2.52E-05
Ethyl Methyl Sulfide	624-89-5	< 2.24E-05	< 2.99E-05	< 2.33E-05	< 2.52E-05
Thiophene	110-02-1	< 2.61E-05	< 3.49E-05	< 2.72E-05	< 2.94E-05
Isobutyl Mercaptan	513-44-0	< 2.80E-05	< 3.74E-05	< 2.92E-05	< 3.15E-05
Diethyl Sulfide	352-93-2	< 2.80E-05	< 3.74E-05	< 2.92E-05	< 3.15E-05
n-Butyl Mercaptan	109-79-5	< 2.80E-05	< 3.74E-05	< 2.92E-05	< 3.15E-05
Dimethyl Disulfide	624-92-0	< 1.44E-05	< 1.92E-05	< 1.50E-05	< 1.62E-05
3-Methylthiophene	616-44-4	< 2.99E-05	< 3.99E-05	< 3.11E-05	< 3.36E-05
Tetrahydrothiophene	110-01-0	< 2.61E-05	< 3.49E-05	< 2.72E-05	< 2.94E-05
2-Ethylthiophene	872-55-9	< 3.36E-05	< 4.49E-05	< 3.50E-05	< 3.78E-05
2-5,Dimethylthiophene	638-02-8	< 3.36E-05	< 4.49E-05	< 3.50E-05	< 3.78E-05
Diethyl Disulfide	110-81-6	< 1.87E-05	< 2.49E-05	< 1.94E-05	< 2.10E-05
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 4.44E-04	< 5.86E-04	< 4.62E-04	< 4.97E-04

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Table I.1-35
Extruder Sidewall Location B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 6.79E-08	< 6.20E-08	< 6.98E-08	< 7E-08
Methyl Mercaptan	74-93-1	< 5.47E-08	< 6.69E-08	< 5.63E-08	< 6E-08
Ethyl Mercaptan	75-08-1	< 6.93E-08	< 8.47E-08	< 7.12E-08	< 7.51E-08
Dimethyl Sulfide	75-18-3	< 6.93E-08	< 8.47E-08	< 7.12E-08	< 8E-08
Carbon Disulfide	75-15-0	< 4.30E-08	< 5.25E-08	< 4.42E-08	< 5E-08
Isopropyl Mercaptan	75-33-2	< 8.31E-08	< 1.02E-07	< 8.55E-08	< 9E-08
tert-Butyl Mercaptan	75-66-1	< 1.04E-07	< 1.27E-07	< 1.07E-07	< 1E-07
n-Propyl Mercaptan	107-03-9	< 8.31E-08	< 1.02E-07	< 8.55E-08	< 9E-08
Ethyl Methyl Sulfide	624-89-5	< 8.31E-08	< 1.02E-07	< 8.55E-08	< 9E-08
Thiophene	110-02-1	< 9.70E-08	< 1.19E-07	< 9.97E-08	< 1E-07
Isobutyl Mercaptan	513-44-0	< 1.04E-07	< 1.27E-07	< 1.07E-07	< 1E-07
Diethyl Sulfide	352-93-2	< 1.04E-07	< 1.27E-07	< 1.07E-07	< 1E-07
n-Butyl Mercaptan	109-79-5	< 1.04E-07	< 1.27E-07	< 1.07E-07	< 1E-07
Dimethyl Disulfide	624-92-0	< 5.34E-08	< 6.53E-08	< 5.48E-08	< 6E-08
3-Methylthiophene	616-44-4	< 1.11E-07	< 1.36E-07	< 1.14E-07	< 1E-07
Tetrahydrothiophene	110-01-0	< 9.70E-08	< 1.19E-07	< 9.97E-08	< 1E-07
2-Ethylthiophene	872-55-9	< 1.25E-07	< 1.53E-07	< 1.28E-07	< 1E-07
2-5,Dimethylthiophene	638-02-8	< 1.25E-07	< 1.53E-07	< 1.28E-07	< 1E-07
Diethyl Disulfide	110-81-6	< 6.93E-08	< 8.47E-08	< 7.12E-08	< 8E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 1.65E-06	< 1.99E-06	< 1.69E-06	< 1.78E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 3.75E-08	< 3.74E-08	< 3.91E-08	< 3.80E-08
Methyl Mercaptan	74-93-1	< 3.03E-08	< 4.04E-08	< 3.15E-08	< 3.41E-08
Ethyl Mercaptan	75-08-1	< 3.83E-08	< 5.11E-08	< 3.99E-08	< 4.31E-08
Dimethyl Sulfide	75-18-3	< 3.83E-08	< 5.11E-08	< 3.99E-08	< 4.31E-08
Carbon Disulfide	75-15-0	< 2.37E-08	< 3.17E-08	< 2.47E-08	< 2.67E-08
Isopropyl Mercaptan	75-33-2	< 4.60E-08	< 6.14E-08	< 4.79E-08	< 5.17E-08
tert-Butyl Mercaptan	75-66-1	< 5.75E-08	< 7.67E-08	< 5.98E-08	< 6.47E-08
n-Propyl Mercaptan	107-03-9	< 4.60E-08	< 6.14E-08	< 4.79E-08	< 5.17E-08
Ethyl Methyl Sulfide	624-89-5	< 4.60E-08	< 6.14E-08	< 4.79E-08	< 5.17E-08
Thiophene	110-02-1	< 5.36E-08	< 7.16E-08	< 5.58E-08	< 6.04E-08
Isobutyl Mercaptan	513-44-0	< 5.75E-08	< 7.67E-08	< 5.98E-08	< 6.47E-08
Diethyl Sulfide	352-93-2	< 5.75E-08	< 7.67E-08	< 5.98E-08	< 6.47E-08
n-Butyl Mercaptan	109-79-5	< 5.75E-08	< 7.67E-08	< 5.98E-08	< 6.47E-08
Dimethyl Disulfide	624-92-0	< 2.95E-08	< 3.94E-08	< 3.07E-08	< 3.32E-08
3-Methylthiophene	616-44-4	< 6.13E-08	< 8.18E-08	< 6.38E-08	< 6.90E-08
Tetrahydrothiophene	110-01-0	< 5.36E-08	< 7.16E-08	< 5.58E-08	< 6.04E-08
2-Ethylthiophene	872-55-9	< 6.90E-08	< 9.20E-08	< 7.18E-08	< 7.76E-08
2-5,Dimethylthiophene	638-02-8	< 6.90E-08	< 9.20E-08	< 7.18E-08	< 7.76E-08
Diethyl Disulfide	110-81-6	< 3.83E-08	< 5.11E-08	< 3.99E-08	< 4.31E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 9.10E-07	< 1.20E-06	< 9.48E-07	< 1.02E-06

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Table I.1-36
Extruder EPDM Locations A and B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 19.6	< 19.6	< 19.6	< 19.6
Methyl Mercaptan	74-93-1	< 15.8	< 15.8	< 15.8	< 15.8
Ethyl Mercaptan	75-08-1	< 20	< 20	< 20	< 20
Dimethyl Sulfide	75-18-3	< 20	< 20	< 20	< 20
Carbon Disulfide	75-15-0	< 12.4	< 12.4	< 12.4	< 12.4
Isopropyl Mercaptan	75-33-2	< 24	< 24	< 24	< 24
tert-Butyl Mercaptan	75-66-1	< 30	< 30	< 30	< 30
n-Propyl Mercaptan	107-03-9	< 24	< 24	< 24	< 24
Ethyl Methyl Sulfide	624-89-5	< 24	< 24	< 24	< 24
Thiophene	110-02-1	< 28	< 28	< 28	< 28
Isobutyl Mercaptan	513-44-0	< 30	< 30	< 30	< 30
Diethyl Sulfide	352-93-2	< 30	< 30	< 30	< 30
n-Butyl Mercaptan	109-79-5	< 30	< 30	< 30	< 30
Dimethyl Disulfide	624-92-0	< 15.4	< 15.4	< 15.4	< 15.4
3-Methylthiophene	616-44-4	< 32	< 32	< 32	< 32
Tetrahydrothiophene	110-01-0	< 28	< 28	< 28	< 28
2-Ethylthiophene	872-55-9	< 36	< 36	< 36	< 36
2-5,Dimethylthiophene	638-02-8	< 36	< 36	< 36	< 36
Diethyl Disulfide	110-81-6	< 20	< 20	< 20	< 20
Total Detected		0	0	0	0
Total with non-detects		< 475.2	< 475.2	< 475.2	< 475.2
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 4.02E-05	< 3.95E-05	< 3.83E-05	< 3.93E-05
Methyl Mercaptan	74-93-1	< 3.24E-05	< 3.19E-05	< 3.09E-05	< 3.17E-05
Ethyl Mercaptan	75-08-1	< 4.10E-05	< 4.03E-05	< 3.91E-05	< 4.01E-05
Dimethyl Sulfide	75-18-3	< 4.10E-05	< 4.03E-05	< 3.91E-05	< 4.01E-05
Carbon Disulfide	75-15-0	< 2.54E-05	< 2.50E-05	< 2.42E-05	< 2.49E-05
Isopropyl Mercaptan	75-33-2	< 4.92E-05	< 4.84E-05	< 4.69E-05	< 4.82E-05
tert-Butyl Mercaptan	75-66-1	< 6.15E-05	< 6.05E-05	< 5.86E-05	< 6.02E-05
n-Propyl Mercaptan	107-03-9	< 4.92E-05	< 4.84E-05	< 4.69E-05	< 4.82E-05
Ethyl Methyl Sulfide	624-89-5	< 4.92E-05	< 4.84E-05	< 4.69E-05	< 4.82E-05
Thiophene	110-02-1	< 5.74E-05	< 5.65E-05	< 5.47E-05	< 5.62E-05
Isobutyl Mercaptan	513-44-0	< 6.15E-05	< 6.05E-05	< 5.86E-05	< 6.02E-05
Diethyl Sulfide	352-93-2	< 6.15E-05	< 6.05E-05	< 5.86E-05	< 6.02E-05
n-Butyl Mercaptan	109-79-5	< 6.15E-05	< 6.05E-05	< 5.86E-05	< 6.02E-05
Dimethyl Disulfide	624-92-0	< 3.16E-05	< 3.11E-05	< 3.01E-05	< 3.09E-05
3-Methylthiophene	616-44-4	< 6.56E-05	< 6.46E-05	< 6.25E-05	< 6.42E-05
Tetrahydrothiophene	110-01-0	< 5.74E-05	< 5.65E-05	< 5.47E-05	< 5.62E-05
2-Ethylthiophene	872-55-9	< 7.38E-05	< 7.26E-05	< 7.04E-05	< 7.23E-05
2-5,Dimethylthiophene	638-02-8	< 7.38E-05	< 7.26E-05	< 7.04E-05	< 7.23E-05
Diethyl Disulfide	110-81-6	< 4.10E-05	< 4.03E-05	< 3.91E-05	< 4.01E-05
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 9.74E-04	< 9.59E-04	< 9.29E-04	< 9.54E-04

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Table I.1-36
Extruder EPDM Locations A and B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 1.10E-07	< 1.10E-07	< 1.12E-07	< 1.11E-07
Methyl Mercaptan	74-93-1	< 8.86E-08	< 8.83E-08	< 9.04E-08	< 8.91E-08
Ethyl Mercaptan	75-08-1	< 1.12E-07	< 1.12E-07	< 1.14E-07	< 1.13E-07
Dimethyl Sulfide	75-18-3	< 1.12E-07	< 1.12E-07	< 1.14E-07	< 1.13E-07
Carbon Disulfide	75-15-0	< 6.95E-08	< 6.93E-08	< 7.10E-08	< 6.99E-08
Isopropyl Mercaptan	75-33-2	< 1.35E-07	< 1.34E-07	< 1.37E-07	< 1.35E-07
tert-Butyl Mercaptan	75-66-1	< 1.68E-07	< 1.68E-07	< 1.72E-07	< 1.69E-07
n-Propyl Mercaptan	107-03-9	< 1.35E-07	< 1.34E-07	< 1.37E-07	< 1.35E-07
Ethyl Methyl Sulfide	624-89-5	< 1.35E-07	< 1.34E-07	< 1.37E-07	< 1.35E-07
Thiophene	110-02-1	< 1.57E-07	< 1.56E-07	< 1.60E-07	< 1.58E-07
Isobutyl Mercaptan	513-44-0	< 1.68E-07	< 1.68E-07	< 1.72E-07	< 1.69E-07
Diethyl Sulfide	352-93-2	< 1.68E-07	< 1.68E-07	< 1.72E-07	< 1.69E-07
n-Butyl Mercaptan	109-79-5	< 1.68E-07	< 1.68E-07	< 1.72E-07	< 1.69E-07
Dimethyl Disulfide	624-92-0	< 8.63E-08	< 8.61E-08	< 8.81E-08	< 8.68E-08
3-Methylthiophene	616-44-4	< 1.79E-07	< 1.79E-07	< 1.83E-07	< 1.80E-07
Tetrahydrothiophene	110-01-0	< 1.57E-07	< 1.56E-07	< 1.60E-07	< 1.58E-07
2-Ethylthiophene	872-55-9	< 2.02E-07	< 2.01E-07	< 2.06E-07	< 2.03E-07
2-5,Dimethylthiophene	638-02-8	< 2.02E-07	< 2.01E-07	< 2.06E-07	< 2.03E-07
Diethyl Disulfide	110-81-6	< 1.12E-07	< 1.12E-07	< 1.14E-07	< 1.13E-07
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 2.66E-06	< 2.66E-06	< 2.72E-06	< 2.68E-06
Sulfur (lbs/ft³ rubber)					
Carbonyl Sulfide	463-58-1	< 4.64E-08	< 4.87E-08	< 4.29E-08	< 4.60E-08
Methyl Mercaptan	74-93-1	< 3.74E-08	< 3.92E-08	< 3.45E-08	< 3.71E-08
Ethyl Mercaptan	75-08-1	< 4.73E-08	< 4.97E-08	< 4.37E-08	< 4.69E-08
Dimethyl Sulfide	75-18-3	< 4.73E-08	< 4.97E-08	< 4.37E-08	< 4.69E-08
Carbon Disulfide	75-15-0	< 2.93E-08	< 3.08E-08	< 2.71E-08	< 2.91E-08
Isopropyl Mercaptan	75-33-2	< 5.68E-08	< 5.96E-08	< 5.25E-08	< 5.63E-08
tert-Butyl Mercaptan	75-66-1	< 7.10E-08	< 7.45E-08	< 6.56E-08	< 7.04E-08
n-Propyl Mercaptan	107-03-9	< 5.68E-08	< 5.96E-08	< 5.25E-08	< 5.63E-08
Ethyl Methyl Sulfide	624-89-5	< 5.68E-08	< 5.96E-08	< 5.25E-08	< 5.63E-08
Thiophene	110-02-1	< 6.62E-08	< 6.95E-08	< 6.12E-08	< 6.57E-08
Isobutyl Mercaptan	513-44-0	< 7.10E-08	< 7.45E-08	< 6.56E-08	< 7.04E-08
Diethyl Sulfide	352-93-2	< 7.10E-08	< 7.45E-08	< 6.56E-08	< 7.04E-08
n-Butyl Mercaptan	109-79-5	< 7.10E-08	< 7.45E-08	< 6.56E-08	< 7.04E-08
Dimethyl Disulfide	624-92-0	< 3.64E-08	< 3.82E-08	< 3.37E-08	< 3.61E-08
3-Methylthiophene	616-44-4	< 7.57E-08	< 7.94E-08	< 7.00E-08	< 7.50E-08
Tetrahydrothiophene	110-01-0	< 6.62E-08	< 6.95E-08	< 6.12E-08	< 6.57E-08
2-Ethylthiophene	872-55-9	< 8.52E-08	< 8.94E-08	< 7.87E-08	< 8.44E-08
2-5,Dimethylthiophene	638-02-8	< 8.52E-08	< 8.94E-08	< 7.87E-08	< 8.44E-08
Diethyl Disulfide	110-81-6	< 4.73E-08	< 4.97E-08	< 4.37E-08	< 4.69E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 1.12E-06	< 1.18E-06	< 1.04E-06	< 1.11E-06

TRC

Table I.1-37
Extruder EPDM Location A Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10	< 10	< 10	< 10
Dimethyl Sulfide	75-18-3	< 10	< 10	< 10	< 10
Carbon Disulfide	75-15-0	< 6.2	< 6.2	< 6.2	< 6.2
Isopropyl Mercaptan	75-33-2	< 12	< 12	< 12	< 12
tert-Butyl Mercaptan	75-66-1	< 15	< 15	< 15	< 15
n-Propyl Mercaptan	107-03-9	< 12	< 12	< 12	< 12
Ethyl Methyl Sulfide	624-89-5	< 12	< 12	< 12	< 12
Thiophene	110-02-1	< 14	< 14	< 14	< 14
Isobutyl Mercaptan	513-44-0	< 15	< 15	< 15	< 15
Diethyl Sulfide	352-93-2	< 15	< 15	< 15	< 15
n-Butyl Mercaptan	109-79-5	< 15	< 15	< 15	< 15
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16	< 16	< 16	< 16
Tetrahydrothiophene	110-01-0	< 14	< 14	< 14	< 14
2-Ethylthiophene	872-55-9	< 18	< 18	< 18	< 18
2-5,Dimethylthiophene	638-02-8	< 18	< 18	< 18	< 18
Diethyl Disulfide	110-81-6	< 10	< 10	< 10	< 10
Total Detected		0	0	0	0
Total with non-detects		< 237.6	< 237.6	< 237.6	< 237.6
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 2.07E-05	< 2.22E-05	< 2.04E-05	< 2.11E-05
Methyl Mercaptan	74-93-1	< 1.67E-05	< 1.79E-05	< 1.64E-05	< 1.70E-05
Ethyl Mercaptan	75-08-1	< 2.12E-05	< 2.27E-05	< 2.08E-05	< 2.15E-05
Dimethyl Sulfide	75-18-3	< 2.12E-05	< 2.27E-05	< 2.08E-05	< 2.15E-05
Carbon Disulfide	75-15-0	< 1.31E-05	< 1.41E-05	< 1.29E-05	< 1.34E-05
Isopropyl Mercaptan	75-33-2	< 2.54E-05	< 2.72E-05	< 2.49E-05	< 2.58E-05
tert-Butyl Mercaptan	75-66-1	< 3.17E-05	< 3.41E-05	< 3.11E-05	< 3.23E-05
n-Propyl Mercaptan	107-03-9	< 2.54E-05	< 2.72E-05	< 2.49E-05	< 2.58E-05
Ethyl Methyl Sulfide	624-89-5	< 2.54E-05	< 2.72E-05	< 2.49E-05	< 2.58E-05
Thiophene	110-02-1	< 2.96E-05	< 3.18E-05	< 2.91E-05	< 3.02E-05
Isobutyl Mercaptan	513-44-0	< 3.17E-05	< 3.41E-05	< 3.11E-05	< 3.23E-05
Diethyl Sulfide	352-93-2	< 3.17E-05	< 3.41E-05	< 3.11E-05	< 3.23E-05
n-Butyl Mercaptan	109-79-5	< 3.17E-05	< 3.41E-05	< 3.11E-05	< 3.23E-05
Dimethyl Disulfide	624-92-0	< 1.63E-05	< 1.75E-05	< 1.60E-05	< 1.66E-05
3-Methylthiophene	616-44-4	< 3.38E-05	< 3.63E-05	< 3.32E-05	< 3.45E-05
Tetrahydrothiophene	110-01-0	< 2.96E-05	< 3.18E-05	< 2.91E-05	< 3.02E-05
2-Ethylthiophene	872-55-9	< 3.81E-05	< 4.09E-05	< 3.74E-05	< 3.88E-05
2-5,Dimethylthiophene	638-02-8	< 3.81E-05	< 4.09E-05	< 3.74E-05	< 3.88E-05
Diethyl Disulfide	110-81-6	< 2.12E-05	< 2.27E-05	< 2.08E-05	< 2.15E-05
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 5.03E-04	< 5.39E-04	< 4.93E-04	< 5.12E-04

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Table I.1-37
Extruder EPDM Location A Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 5.67E-08	< 6.16E-08	< 5.96E-08	< 5.93E-08
Methyl Mercaptan	74-93-1	< 4.57E-08	< 4.97E-08	< 4.80E-08	< 4.78E-08
Ethyl Mercaptan	75-08-1	< 5.78E-08	< 6.29E-08	< 6.08E-08	< 6.05E-08
Dimethyl Sulfide	75-18-3	< 5.78E-08	< 6.29E-08	< 6.08E-08	< 6.05E-08
Carbon Disulfide	75-15-0	< 3.59E-08	< 3.90E-08	< 3.77E-08	< 3.75E-08
Isopropyl Mercaptan	75-33-2	< 6.94E-08	< 7.55E-08	< 7.30E-08	< 7.26E-08
tert-Butyl Mercaptan	75-66-1	< 8.68E-08	< 9.43E-08	< 9.12E-08	< 9.08E-08
n-Propyl Mercaptan	107-03-9	< 6.94E-08	< 7.55E-08	< 7.30E-08	< 7.26E-08
Ethyl Methyl Sulfide	624-89-5	< 6.94E-08	< 7.55E-08	< 7.30E-08	< 7.26E-08
Thiophene	110-02-1	< 8.10E-08	< 8.81E-08	< 8.51E-08	< 8.47E-08
Isobutyl Mercaptan	513-44-0	< 8.68E-08	< 9.43E-08	< 9.12E-08	< 9.08E-08
Diethyl Sulfide	352-93-2	< 8.68E-08	< 9.43E-08	< 9.12E-08	< 9.08E-08
n-Butyl Mercaptan	109-79-5	< 8.68E-08	< 9.43E-08	< 9.12E-08	< 9.08E-08
Dimethyl Disulfide	624-92-0	< 4.45E-08	< 4.84E-08	< 4.68E-08	< 4.66E-08
3-Methylthiophene	616-44-4	< 9.25E-08	< 1.01E-07	< 9.73E-08	< 9.68E-08
Tetrahydrothiophene	110-01-0	< 8.10E-08	< 8.81E-08	< 8.51E-08	< 8.47E-08
2-Ethylthiophene	872-55-9	< 1.04E-07	< 1.13E-07	< 1.09E-07	< 1.09E-07
2-5,Dimethylthiophene	638-02-8	< 1.04E-07	< 1.13E-07	< 1.09E-07	< 1.09E-07
Diethyl Disulfide	110-81-6	< 5.78E-08	< 6.29E-08	< 6.08E-08	< 6.05E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 1.37E-06	< 1.49E-06	< 1.44E-06	< 1.44E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 2.39E-08	< 2.74E-08	< 2.28E-08	< 2.47E-08
Methyl Mercaptan	74-93-1	< 1.93E-08	< 2.21E-08	< 1.84E-08	< 1.99E-08
Ethyl Mercaptan	75-08-1	< 2.44E-08	< 2.79E-08	< 2.32E-08	< 2.52E-08
Dimethyl Sulfide	75-18-3	< 2.44E-08	< 2.79E-08	< 2.32E-08	< 2.52E-08
Carbon Disulfide	75-15-0	< 1.51E-08	< 1.73E-08	< 1.44E-08	< 1.56E-08
Isopropyl Mercaptan	75-33-2	< 2.93E-08	< 3.35E-08	< 2.79E-08	< 3.02E-08
tert-Butyl Mercaptan	75-66-1	< 3.66E-08	< 4.19E-08	< 3.49E-08	< 3.78E-08
n-Propyl Mercaptan	107-03-9	< 2.93E-08	< 3.35E-08	< 2.79E-08	< 3.02E-08
Ethyl Methyl Sulfide	624-89-5	< 2.93E-08	< 3.35E-08	< 2.79E-08	< 3.02E-08
Thiophene	110-02-1	< 3.42E-08	< 3.91E-08	< 3.25E-08	< 3.53E-08
Isobutyl Mercaptan	513-44-0	< 3.66E-08	< 4.19E-08	< 3.49E-08	< 3.78E-08
Diethyl Sulfide	352-93-2	< 3.66E-08	< 4.19E-08	< 3.49E-08	< 3.78E-08
n-Butyl Mercaptan	109-79-5	< 3.66E-08	< 4.19E-08	< 3.49E-08	< 3.78E-08
Dimethyl Disulfide	624-92-0	< 1.88E-08	< 2.15E-08	< 1.79E-08	< 1.94E-08
3-Methylthiophene	616-44-4	< 3.91E-08	< 4.47E-08	< 3.72E-08	< 4.03E-08
Tetrahydrothiophene	110-01-0	< 3.42E-08	< 3.91E-08	< 3.25E-08	< 3.53E-08
2-Ethylthiophene	872-55-9	< 4.39E-08	< 5.03E-08	< 4.18E-08	< 4.53E-08
2-5,Dimethylthiophene	638-02-8	< 4.39E-08	< 5.03E-08	< 4.18E-08	< 4.53E-08
Diethyl Disulfide	110-81-6	< 2.44E-08	< 2.79E-08	< 2.32E-08	< 2.52E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 5.80E-07	< 6.64E-07	< 5.52E-07	< 5.99E-07

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Table I.1-38
Extruder EPDM Location B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10	< 10	< 10	< 10
Dimethyl Sulfide	75-18-3	< 10	< 10	< 10	< 10
Carbon Disulfide	75-15-0	< 6.2	< 6.2	< 6.2	< 6.2
Isopropyl Mercaptan	75-33-2	< 12	< 12	< 12	< 12
tert-Butyl Mercaptan	75-66-1	< 15	< 15	< 15	< 15
n-Propyl Mercaptan	107-03-9	< 12	< 12	< 12	< 12
Ethyl Methyl Sulfide	624-89-5	< 12	< 12	< 12	< 12
Thiophene	110-02-1	< 14	< 14	< 14	< 14
Isobutyl Mercaptan	513-44-0	< 15	< 15	< 15	< 15
Diethyl Sulfide	352-93-2	< 15	< 15	< 15	< 15
n-Butyl Mercaptan	109-79-5	< 15	< 15	< 15	< 15
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16	< 16	< 16	< 16
Tetrahydrothiophene	110-01-0	< 14	< 14	< 14	< 14
2-Ethylthiophene	872-55-9	< 18	< 18	< 18	< 18
2-5,Dimethylthiophene	638-02-8	< 18	< 18	< 18	< 18
Diethyl Disulfide	110-81-6	< 10	< 10	< 10	< 10
Total Detected		0	0	0	0
Total with non-detects		< 237.6	< 237.6	< 237.6	< 237.6
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 1.95E-05	< 1.73E-05	< 1.80E-05	< 1.82E-05
Methyl Mercaptan	74-93-1	< 1.57E-05	< 1.39E-05	< 1.45E-05	< 1.47E-05
Ethyl Mercaptan	75-08-1	< 1.99E-05	< 1.76E-05	< 1.83E-05	< 1.86E-05
Dimethyl Sulfide	75-18-3	< 1.99E-05	< 1.76E-05	< 1.83E-05	< 1.86E-05
Carbon Disulfide	75-15-0	< 1.23E-05	< 1.09E-05	< 1.14E-05	< 1.15E-05
Isopropyl Mercaptan	75-33-2	< 2.38E-05	< 2.12E-05	< 2.20E-05	< 2.23E-05
tert-Butyl Mercaptan	75-66-1	< 2.98E-05	< 2.65E-05	< 2.75E-05	< 2.79E-05
n-Propyl Mercaptan	107-03-9	< 2.38E-05	< 2.12E-05	< 2.20E-05	< 2.23E-05
Ethyl Methyl Sulfide	624-89-5	< 2.38E-05	< 2.12E-05	< 2.20E-05	< 2.23E-05
Thiophene	110-02-1	< 2.78E-05	< 2.47E-05	< 2.56E-05	< 2.60E-05
Isobutyl Mercaptan	513-44-0	< 2.98E-05	< 2.65E-05	< 2.75E-05	< 2.79E-05
Diethyl Sulfide	352-93-2	< 2.98E-05	< 2.65E-05	< 2.75E-05	< 2.79E-05
n-Butyl Mercaptan	109-79-5	< 2.98E-05	< 2.65E-05	< 2.75E-05	< 2.79E-05
Dimethyl Disulfide	624-92-0	< 1.53E-05	< 1.36E-05	< 1.41E-05	< 1.43E-05
3-Methylthiophene	616-44-4	< 3.18E-05	< 2.82E-05	< 2.93E-05	< 2.98E-05
Tetrahydrothiophene	110-01-0	< 2.78E-05	< 2.47E-05	< 2.56E-05	< 2.60E-05
2-Ethylthiophene	872-55-9	< 3.57E-05	< 3.18E-05	< 3.30E-05	< 3.35E-05
2-5,Dimethylthiophene	638-02-8	< 3.57E-05	< 3.18E-05	< 3.30E-05	< 3.35E-05
Diethyl Disulfide	110-81-6	< 1.99E-05	< 1.76E-05	< 1.83E-05	< 1.86E-05
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 4.72E-04	< 4.19E-04	< 4.35E-04	< 4.42E-04

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Table I.1-38
Extruder EPDM Location B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 5.32E-08	< 4.79E-08	< 5.26E-08	< 5.12E-08
Methyl Mercaptan	74-93-1	< 4.29E-08	< 3.86E-08	< 4.24E-08	< 4.13E-08
Ethyl Mercaptan	75-08-1	< 5.43E-08	< 4.89E-08	< 5.36E-08	< 5.23E-08
Dimethyl Sulfide	75-18-3	< 5.43E-08	< 4.89E-08	< 5.36E-08	< 5.23E-08
Carbon Disulfide	75-15-0	< 3.37E-08	< 3.03E-08	< 3.33E-08	< 3.24E-08
Isopropyl Mercaptan	75-33-2	< 6.51E-08	< 5.87E-08	< 6.44E-08	< 6.27E-08
tert-Butyl Mercaptan	75-66-1	< 8.14E-08	< 7.33E-08	< 8.05E-08	< 7.84E-08
n-Propyl Mercaptan	107-03-9	< 6.51E-08	< 5.87E-08	< 6.44E-08	< 6.27E-08
Ethyl Methyl Sulfide	624-89-5	< 6.51E-08	< 5.87E-08	< 6.44E-08	< 6.27E-08
Thiophene	110-02-1	< 7.60E-08	< 6.84E-08	< 7.51E-08	< 7.32E-08
Isobutyl Mercaptan	513-44-0	< 8.14E-08	< 7.33E-08	< 8.05E-08	< 7.84E-08
Diethyl Sulfide	352-93-2	< 8.14E-08	< 7.33E-08	< 8.05E-08	< 7.84E-08
n-Butyl Mercaptan	109-79-5	< 8.14E-08	< 7.33E-08	< 8.05E-08	< 7.84E-08
Dimethyl Disulfide	624-92-0	< 4.18E-08	< 3.76E-08	< 4.13E-08	< 4.02E-08
3-Methylthiophene	616-44-4	< 8.69E-08	< 7.82E-08	< 8.58E-08	< 8.36E-08
Tetrahydrothiophene	110-01-0	< 7.60E-08	< 6.84E-08	< 7.51E-08	< 7.32E-08
2-Ethylthiophene	872-55-9	< 9.77E-08	< 8.80E-08	< 9.66E-08	< 9.41E-08
2-5,Dimethylthiophene	638-02-8	< 9.77E-08	< 8.80E-08	< 9.66E-08	< 9.41E-08
Diethyl Disulfide	110-81-6	< 5.43E-08	< 4.89E-08	< 5.36E-08	< 5.23E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 1.29E-06	< 1.16E-06	< 1.27E-06	< 1.24E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 2.25E-08	< 2.13E-08	< 2.01E-08	< 2.13E-08
Methyl Mercaptan	74-93-1	< 1.81E-08	< 1.72E-08	< 1.62E-08	< 1.71E-08
Ethyl Mercaptan	75-08-1	< 2.29E-08	< 2.17E-08	< 2.05E-08	< 2.17E-08
Dimethyl Sulfide	75-18-3	< 2.29E-08	< 2.17E-08	< 2.05E-08	< 2.17E-08
Carbon Disulfide	75-15-0	< 1.42E-08	< 1.35E-08	< 1.27E-08	< 1.35E-08
Isopropyl Mercaptan	75-33-2	< 2.75E-08	< 2.61E-08	< 2.46E-08	< 2.60E-08
tert-Butyl Mercaptan	75-66-1	< 3.44E-08	< 3.26E-08	< 3.07E-08	< 3.26E-08
n-Propyl Mercaptan	107-03-9	< 2.75E-08	< 2.61E-08	< 2.46E-08	< 2.60E-08
Ethyl Methyl Sulfide	624-89-5	< 2.75E-08	< 2.61E-08	< 2.46E-08	< 2.60E-08
Thiophene	110-02-1	< 3.21E-08	< 3.04E-08	< 2.87E-08	< 3.04E-08
Isobutyl Mercaptan	513-44-0	< 3.44E-08	< 3.26E-08	< 3.07E-08	< 3.26E-08
Diethyl Sulfide	352-93-2	< 3.44E-08	< 3.26E-08	< 3.07E-08	< 3.26E-08
n-Butyl Mercaptan	109-79-5	< 3.44E-08	< 3.26E-08	< 3.07E-08	< 3.26E-08
Dimethyl Disulfide	624-92-0	< 1.76E-08	< 1.67E-08	< 1.58E-08	< 1.67E-08
3-Methylthiophene	616-44-4	< 3.67E-08	< 3.47E-08	< 3.28E-08	< 3.47E-08
Tetrahydrothiophene	110-01-0	< 3.21E-08	< 3.04E-08	< 2.87E-08	< 3.04E-08
2-Ethylthiophene	872-55-9	< 4.12E-08	< 3.91E-08	< 3.69E-08	< 3.91E-08
2-5,Dimethylthiophene	638-02-8	< 4.12E-08	< 3.91E-08	< 3.69E-08	< 3.91E-08
Diethyl Disulfide	110-81-6	< 2.29E-08	< 2.17E-08	< 2.05E-08	< 2.17E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 5.44E-07	< 5.16E-07	< 4.87E-07	< 5.16E-07

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Table I.1-39
Extruder Tread Locations A and B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 19.6	< 19.6	< 19.6	< 19.6
Methyl Mercaptan	74-93-1	< 15.8	< 15.8	< 15.8	< 15.8
Ethyl Mercaptan	75-08-1	< 20.0	< 20.0	< 20.0	< 20.0
Dimethyl Sulfide	75-18-3	< 20.0	< 20.0	40.5	< 26.8
Carbon Disulfide	75-15-0	< 12.4	< 12.4	< 12.4	< 12.4
Isopropyl Mercaptan	75-33-2	< 24.0	< 24.0	< 24.0	< 24.0
tert-Butyl Mercaptan	75-66-1	< 30.0	< 30.0	< 30.0	< 30.0
n-Propyl Mercaptan	107-03-9	< 24.0	< 24.0	< 24.0	< 24.0
Ethyl Methyl Sulfide	624-89-5	< 24.0	< 24.0	< 24.0	< 24.0
Thiophene	110-02-1	< 28.0	< 28.0	< 28.0	< 28.0
Isobutyl Mercaptan	513-44-0	< 30.0	< 30.0	< 30.0	< 30.0
Diethyl Sulfide	352-93-2	< 30.0	< 30.0	< 30.0	< 30.0
n-Butyl Mercaptan	109-79-5	< 30.0	< 30.0	< 30.0	< 30.0
Dimethyl Disulfide	624-92-0	< 15.4	< 15.4	< 15.4	< 15.4
3-Methylthiophene	616-44-4	< 32.0	< 32.0	< 32.0	< 32.0
Tetrahydrothiophene	110-01-0	< 28.0	< 28.0	< 28.0	< 28.0
2-Ethylthiophene	872-55-9	< 36.0	< 36.0	< 36.0	< 36.0
2-5,Dimethylthiophene	638-02-8	< 36.0	< 36.0	< 36.0	< 36.0
Diethyl Disulfide	110-81-6	< 20.0	< 20.0	< 20.0	< 20.0
Total Detected		0	0	40.5	0
Total with non-detects		< 475.2	< 475.2	< 495.7	< 482.0
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 1.26E-04	< 7.76E-05	< 4.06E-05	< 8.14E-05
Methyl Mercaptan	74-93-1	< 1.02E-04	< 6.26E-05	< 3.27E-05	< 6.56E-05
Ethyl Mercaptan	75-08-1	< 1.29E-04	< 7.92E-05	< 4.14E-05	< 8.31E-05
Dimethyl Sulfide	75-18-3	< 1.29E-04	< 7.92E-05	8.33E-05	< 9.70E-05
Carbon Disulfide	75-15-0	< 7.97E-05	< 4.91E-05	< 2.57E-05	< 5.15E-05
Isopropyl Mercaptan	75-33-2	< 1.54E-04	< 9.51E-05	< 4.97E-05	< 9.97E-05
tert-Butyl Mercaptan	75-66-1	< 1.93E-04	< 1.19E-04	< 6.22E-05	< 1.25E-04
n-Propyl Mercaptan	107-03-9	< 1.54E-04	< 9.51E-05	< 4.97E-05	< 9.97E-05
Ethyl Methyl Sulfide	624-89-5	< 1.54E-04	< 9.51E-05	< 4.97E-05	< 9.97E-05
Thiophene	110-02-1	< 1.80E-04	< 1.11E-04	< 5.80E-05	< 1.16E-04
Isobutyl Mercaptan	513-44-0	< 1.93E-04	< 1.19E-04	< 6.22E-05	< 1.25E-04
Diethyl Sulfide	352-93-2	< 1.93E-04	< 1.19E-04	< 6.22E-05	< 1.25E-04
n-Butyl Mercaptan	109-79-5	< 1.93E-04	< 1.19E-04	< 6.22E-05	< 1.25E-04
Dimethyl Disulfide	624-92-0	< 9.90E-05	< 6.10E-05	< 3.19E-05	< 6.40E-05
3-Methylthiophene	616-44-4	< 2.06E-04	< 1.27E-04	< 6.63E-05	< 1.33E-04
Tetrahydrothiophene	110-01-0	< 1.80E-04	< 1.11E-04	< 5.80E-05	< 1.16E-04
2-Ethylthiophene	872-55-9	< 2.31E-04	< 1.43E-04	< 7.46E-05	< 1.50E-04
2-5,Dimethylthiophene	638-02-8	< 2.31E-04	< 1.43E-04	< 7.46E-05	< 1.50E-04
Diethyl Disulfide	110-81-6	< 1.29E-04	< 7.92E-05	< 4.14E-05	< 8.31E-05
Total Detected		0.00E+00	0.00E+00	8.33E-05	0.00E+00
Total with non-detects		< 3.05E-03	< 1.88E-03	< 1.03E-03	< 1.99E-03

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Table I.1-39
Extruder Tread Locations A and B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 3.82E-07	< 2.36E-07	< 1.21E-07	< 2.46E-07
Methyl Mercaptan	74-93-1	< 3.08E-07	< 1.90E-07	< 9.78E-08	< 1.99E-07
Ethyl Mercaptan	75-08-1	< 3.90E-07	< 2.41E-07	< 1.24E-07	< 2.52E-07
Dimethyl Sulfide	75-18-3	< 3.90E-07	< 2.41E-07	2.49E-07	< 2.93E-07
Carbon Disulfide	75-15-0	< 2.42E-07	< 1.49E-07	< 7.67E-08	< 1.56E-07
Isopropyl Mercaptan	75-33-2	< 4.68E-07	< 2.89E-07	< 1.48E-07	< 3.02E-07
tert-Butyl Mercaptan	75-66-1	< 5.85E-07	< 3.61E-07	< 1.86E-07	< 3.77E-07
n-Propyl Mercaptan	107-03-9	< 4.68E-07	< 2.89E-07	< 1.48E-07	< 3.02E-07
Ethyl Methyl Sulfide	624-89-5	< 4.68E-07	< 2.89E-07	< 1.48E-07	< 3.02E-07
Thiophene	110-02-1	< 5.46E-07	< 3.37E-07	< 1.73E-07	< 3.52E-07
Isobutyl Mercaptan	513-44-0	< 5.85E-07	< 3.61E-07	< 1.86E-07	< 3.77E-07
Diethyl Sulfide	352-93-2	< 5.85E-07	< 3.61E-07	< 1.86E-07	< 3.77E-07
n-Butyl Mercaptan	109-79-5	< 5.85E-07	< 3.61E-07	< 1.86E-07	< 3.77E-07
Dimethyl Disulfide	624-92-0	< 3.00E-07	< 1.85E-07	< 9.53E-08	< 1.94E-07
3-Methylthiophene	616-44-4	< 6.24E-07	< 3.85E-07	< 1.98E-07	< 4.02E-07
Tetrahydrothiophene	110-01-0	< 5.46E-07	< 3.37E-07	< 1.73E-07	< 3.52E-07
2-Ethylthiophene	872-55-9	< 7.02E-07	< 4.33E-07	< 2.23E-07	< 4.53E-07
2-5,Dimethylthiophene	638-02-8	< 7.02E-07	< 4.33E-07	< 2.23E-07	< 4.53E-07
Diethyl Disulfide	110-81-6	< 3.90E-07	< 2.41E-07	< 1.24E-07	< 2.52E-07
Total Detected		0.00E+00	0.00E+00	2.49E-07	0.00E+00
Total with non-detects		< 9.27E-06	< 5.72E-06	< 3.07E-06	< 6.02E-06
Sulfur (lbs/ft^2 rubber)					
Carbonyl Sulfide	463-58-1	< 1.65E-07	< 9.56E-08	< 5.81E-08	< 1.06E-07
Methyl Mercaptan	74-93-1	< 1.33E-07	< 7.70E-08	< 4.69E-08	< 8.56E-08
Ethyl Mercaptan	75-08-1	< 1.68E-07	< 9.75E-08	< 5.93E-08	< 1.08E-07
Dimethyl Sulfide	75-18-3	< 1.68E-07	< 9.75E-08	1.19E-07	< 1.28E-07
Carbon Disulfide	75-15-0	< 1.04E-07	< 6.05E-08	< 3.68E-08	< 6.72E-08
Isopropyl Mercaptan	75-33-2	< 2.02E-07	< 1.17E-07	< 7.12E-08	< 1.30E-07
tert-Butyl Mercaptan	75-66-1	< 2.52E-07	< 1.46E-07	< 8.90E-08	< 1.63E-07
n-Propyl Mercaptan	107-03-9	< 2.02E-07	< 1.17E-07	< 7.12E-08	< 1.30E-07
Ethyl Methyl Sulfide	624-89-5	< 2.02E-07	< 1.17E-07	< 7.12E-08	< 1.30E-07
Thiophene	110-02-1	< 2.36E-07	< 1.37E-07	< 8.30E-08	< 1.52E-07
Isobutyl Mercaptan	513-44-0	< 2.52E-07	< 1.46E-07	< 8.90E-08	< 1.63E-07
Diethyl Sulfide	352-93-2	< 2.52E-07	< 1.46E-07	< 8.90E-08	< 1.63E-07
n-Butyl Mercaptan	109-79-5	< 2.52E-07	< 1.46E-07	< 8.90E-08	< 1.63E-07
Dimethyl Disulfide	624-92-0	< 1.30E-07	< 7.51E-08	< 4.57E-08	< 8.35E-08
3-Methylthiophene	616-44-4	< 2.69E-07	< 1.56E-07	< 9.49E-08	< 1.73E-07
Tetrahydrothiophene	110-01-0	< 2.36E-07	< 1.37E-07	< 8.30E-08	< 1.52E-07
2-Ethylthiophene	872-55-9	< 3.03E-07	< 1.76E-07	< 1.07E-07	< 1.95E-07
2-5,Dimethylthiophene	638-02-8	< 3.03E-07	< 1.76E-07	< 1.07E-07	< 1.95E-07
Diethyl Disulfide	110-81-6	< 1.68E-07	< 9.75E-08	< 5.93E-08	< 1.08E-07
Total Detected		0.00E+00	0.00E+00	1.19E-07	0.00E+00
Total with non-detects		< 4.00E-06	< 2.32E-06	< 1.47E-06	< 2.60E-06

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Table I.1-40
Extruder Tread Location A Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10	< 10	< 10	< 10.0
Dimethyl Sulfide	75-18-3	< 10	< 10	40.5	< 20.2
Carbon Disulfide	75-15-0	< 6.2	< 6.2	< 6.2	< 6.2
Isopropyl Mercaptan	75-33-2	< 12	< 12	< 12	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15	< 15	< 15	< 15.0
n-Propyl Mercaptan	107-03-9	< 12	< 12	< 12	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12	< 12	< 12	< 12.0
Thiophene	110-02-1	< 14	< 14	< 14	< 14.0
Isobutyl Mercaptan	513-44-0	< 15	< 15	< 15	< 15.0
Diethyl Sulfide	352-93-2	< 15	< 15	< 15	< 15.0
n-Butyl Mercaptan	109-79-5	< 15	< 15	< 15	< 15.0
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16	< 16	< 16	< 16.0
Tetrahydrothiophene	110-01-0	< 14	< 14	< 14	< 14.0
2-Ethylthiophene	872-55-9	< 18	< 18	< 18	< 18.0
2-5,Dimethylthiophene	638-02-8	< 18	< 18	< 18	< 18.0
Diethyl Disulfide	110-81-6	< 10	< 10	< 10	< 10.0
Total Detected		0	0	40.5	0
Total with non-detects		< 237.6	< 237.6	< 268.1	< 247.8
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 1.06E-04	< 4.66E-05	< 2.02E-05	< 5.75E-05
Methyl Mercaptan	74-93-1	< 8.53E-05	< 3.76E-05	< 1.63E-05	< 4.64E-05
Ethyl Mercaptan	75-08-1	< 1.08E-04	< 4.76E-05	< 2.06E-05	< 5.87E-05
Dimethyl Sulfide	75-18-3	< 1.08E-04	< 4.76E-05	8.33E-05	< 7.96E-05
Carbon Disulfide	75-15-0	< 6.70E-05	< 2.95E-05	< 1.28E-05	< 3.64E-05
Isopropyl Mercaptan	75-33-2	< 1.30E-04	< 5.71E-05	< 2.47E-05	< 7.05E-05
tert-Butyl Mercaptan	75-66-1	< 1.62E-04	< 7.14E-05	< 3.09E-05	< 8.81E-05
n-Propyl Mercaptan	107-03-9	< 1.30E-04	< 5.71E-05	< 2.47E-05	< 7.05E-05
Ethyl Methyl Sulfide	624-89-5	< 1.30E-04	< 5.71E-05	< 2.47E-05	< 7.05E-05
Thiophene	110-02-1	< 1.51E-04	< 6.66E-05	< 2.88E-05	< 8.22E-05
Isobutyl Mercaptan	513-44-0	< 1.62E-04	< 7.14E-05	< 3.09E-05	< 8.81E-05
Diethyl Sulfide	352-93-2	< 1.62E-04	< 7.14E-05	< 3.09E-05	< 8.81E-05
n-Butyl Mercaptan	109-79-5	< 1.62E-04	< 7.14E-05	< 3.09E-05	< 8.81E-05
Dimethyl Disulfide	624-92-0	< 8.31E-05	< 3.66E-05	< 1.58E-05	< 4.52E-05
3-Methylthiophene	616-44-4	< 1.73E-04	< 7.61E-05	< 3.29E-05	< 9.39E-05
Tetrahydrothiophene	110-01-0	< 1.51E-04	< 6.66E-05	< 2.88E-05	< 8.22E-05
2-Ethylthiophene	872-55-9	< 1.94E-04	< 8.56E-05	< 3.70E-05	< 1.06E-04
2-5,Dimethylthiophene	638-02-8	< 1.94E-04	< 8.56E-05	< 3.70E-05	< 1.06E-04
Diethyl Disulfide	110-81-6	< 1.08E-04	< 4.76E-05	< 2.06E-05	< 5.87E-05
Total Detected		0.00E+00	0.00E+00	8.33E-05	< 0.00E+00
Total with non-detects		< 2.57E-03	< 1.13E-03	< 5.52E-04	< 1.42E-03

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Table I.1-40
Extruder Tread Location A Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 3.21E-07	< 1.42E-07	< 6.02E-08	< 1.74E-07
Methyl Mercaptan	74-93-1	< 2.59E-07	< 1.14E-07	< 4.85E-08	< 1.41E-07
Ethyl Mercaptan	75-08-1	< 3.28E-07	< 1.45E-07	< 6.14E-08	< 1.78E-07
Dimethyl Sulfide	75-18-3	< 3.28E-07	< 1.45E-07	2.49E-07	< 2.40E-07
Carbon Disulfide	75-15-0	< 2.03E-07	< 8.96E-08	< 3.81E-08	< 1.10E-07
Isopropyl Mercaptan	75-33-2	< 3.93E-07	< 1.73E-07	< 7.37E-08	< 2.13E-07
tert-Butyl Mercaptan	75-66-1	< 4.92E-07	< 2.17E-07	< 9.22E-08	< 2.67E-07
n-Propyl Mercaptan	107-03-9	< 3.93E-07	< 1.73E-07	< 7.37E-08	< 2.13E-07
Ethyl Methyl Sulfide	624-89-5	< 3.93E-07	< 1.73E-07	< 7.37E-08	< 2.13E-07
Thiophene	110-02-1	< 4.59E-07	< 2.02E-07	< 8.60E-08	< 2.49E-07
Isobutyl Mercaptan	513-44-0	< 4.92E-07	< 2.17E-07	< 9.22E-08	< 2.67E-07
Diethyl Sulfide	352-93-2	< 4.92E-07	< 2.17E-07	< 9.22E-08	< 2.67E-07
n-Butyl Mercaptan	109-79-5	< 4.92E-07	< 2.17E-07	< 9.22E-08	< 2.67E-07
Dimethyl Disulfide	624-92-0	< 2.52E-07	< 1.11E-07	< 4.73E-08	< 1.37E-07
3-Methylthiophene	616-44-4	< 5.24E-07	< 2.31E-07	< 9.83E-08	< 2.85E-07
Tetrahydrothiophene	110-01-0	< 4.59E-07	< 2.02E-07	< 8.60E-08	< 2.49E-07
2-Ethylthiophene	872-55-9	< 5.90E-07	< 2.60E-07	< 1.11E-07	< 3.20E-07
2-5,Dimethylthiophene	638-02-8	< 5.90E-07	< 2.60E-07	< 1.11E-07	< 3.20E-07
Diethyl Disulfide	110-81-6	< 3.28E-07	< 1.45E-07	< 6.14E-08	< 1.78E-07
Total Detected		0.00E+00	0.00E+00	2.49E-07	0.00E+00
Total with non-detects		< 7.79E-06	< 3.43E-06	< 1.65E-06	< 4.29E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 1.39E-07	< 5.74E-08	< 2.89E-08	< 7.49E-08
Methyl Mercaptan	74-93-1	< 1.12E-07	< 4.63E-08	< 2.33E-08	< 6.04E-08
Ethyl Mercaptan	75-08-1	< 1.41E-07	< 5.86E-08	< 2.95E-08	< 7.65E-08
Dimethyl Sulfide	75-18-3	< 1.41E-07	< 5.86E-08	1.19E-07	< 1.06E-07
Carbon Disulfide	75-15-0	< 8.77E-08	< 3.63E-08	< 1.83E-08	< 4.74E-08
Isopropyl Mercaptan	75-33-2	< 1.70E-07	< 7.03E-08	< 3.53E-08	< 9.18E-08
tert-Butyl Mercaptan	75-66-1	< 2.12E-07	< 8.78E-08	< 4.42E-08	< 1.15E-07
n-Propyl Mercaptan	107-03-9	< 1.70E-07	< 7.03E-08	< 3.53E-08	< 9.18E-08
Ethyl Methyl Sulfide	624-89-5	< 1.70E-07	< 7.03E-08	< 3.53E-08	< 9.18E-08
Thiophene	110-02-1	< 1.98E-07	< 8.20E-08	< 4.12E-08	< 1.07E-07
Isobutyl Mercaptan	513-44-0	< 2.12E-07	< 8.78E-08	< 4.42E-08	< 1.15E-07
Diethyl Sulfide	352-93-2	< 2.12E-07	< 8.78E-08	< 4.42E-08	< 1.15E-07
n-Butyl Mercaptan	109-79-5	< 2.12E-07	< 8.78E-08	< 4.42E-08	< 1.15E-07
Dimethyl Disulfide	624-92-0	< 1.09E-07	< 4.51E-08	< 2.27E-08	< 5.89E-08
3-Methylthiophene	616-44-4	< 2.26E-07	< 9.37E-08	< 4.71E-08	< 1.22E-07
Tetrahydrothiophene	110-01-0	< 1.98E-07	< 8.20E-08	< 4.12E-08	< 1.07E-07
2-Ethylthiophene	872-55-9	< 2.54E-07	< 1.05E-07	< 5.30E-08	< 1.38E-07
2-5,Dimethylthiophene	638-02-8	< 2.54E-07	< 1.05E-07	< 5.30E-08	< 1.38E-07
Diethyl Disulfide	110-81-6	< 1.41E-07	< 5.86E-08	< 2.95E-08	< 7.65E-08
Total Detected		0.00E+00	0.00E+00	1.19E-07	0.00E+00
Total with non-detects		< 3.36E-06	< 1.39E-06	< 7.90E-07	< 1.85E-06

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Table I.1-41
Extruder Tread Location B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (µg/m³)					
Carbonyl Sulfide	463-58-1	< 9.8	< 9.8	< 9.8	< 9.8
Methyl Mercaptan	74-93-1	< 7.9	< 7.9	< 7.9	< 7.9
Ethyl Mercaptan	75-08-1	< 10	< 10	< 10	< 10.0
Dimethyl Sulfide	75-18-3	< 10	< 10	< 10	< 10.0
Carbon Disulfide	75-15-0	< 6.2	< 6.2	< 6.2	< 6.2
Isopropyl Mercaptan	75-33-2	< 12	< 12	< 12	< 12.0
tert-Butyl Mercaptan	75-66-1	< 15	< 15	< 15	< 15.0
n-Propyl Mercaptan	107-03-9	< 12	< 12	< 12	< 12.0
Ethyl Methyl Sulfide	624-89-5	< 12	< 12	< 12	< 12.0
Thiophene	110-02-1	< 14	< 14	< 14	< 14.0
Isobutyl Mercaptan	513-44-0	< 15	< 15	< 15	< 15.0
Diethyl Sulfide	352-93-2	< 15	< 15	< 15	< 15.0
n-Butyl Mercaptan	109-79-5	< 15	< 15	< 15	< 15.0
Dimethyl Disulfide	624-92-0	< 7.7	< 7.7	< 7.7	< 7.7
3-Methylthiophene	616-44-4	< 16	< 16	< 16	< 16.0
Tetrahydrothiophene	110-01-0	< 14	< 14	< 14	< 14.0
2-Ethylthiophene	872-55-9	< 18	< 18	< 18	< 18.0
2-5,Dimethylthiophene	638-02-8	< 18	< 18	< 18	< 18.0
Diethyl Disulfide	110-81-6	< 10	< 10	< 10	< 10.0
Total Detected		0	0	0	0
Total with non-detects		< 237.6	< 237.6	< 237.6	< 237.6
Sulfur (lbs/hr)					
Carbonyl Sulfide	463-58-1	< 2.02E-05	< 3.10E-05	< 2.04E-05	< 2.39E-05
Methyl Mercaptan	74-93-1	< 1.62E-05	< 2.50E-05	< 1.65E-05	< 1.92E-05
Ethyl Mercaptan	75-08-1	< 2.06E-05	< 3.17E-05	< 2.09E-05	< 2.44E-05
Dimethyl Sulfide	75-18-3	< 2.06E-05	< 3.17E-05	< 2.09E-05	< 2.44E-05
Carbon Disulfide	75-15-0	< 1.28E-05	< 1.96E-05	< 1.29E-05	< 1.51E-05
Isopropyl Mercaptan	75-33-2	< 2.47E-05	< 3.80E-05	< 2.50E-05	< 2.92E-05
tert-Butyl Mercaptan	75-66-1	< 3.08E-05	< 4.75E-05	< 3.13E-05	< 3.65E-05
n-Propyl Mercaptan	107-03-9	< 2.47E-05	< 3.80E-05	< 2.50E-05	< 2.92E-05
Ethyl Methyl Sulfide	624-89-5	< 2.47E-05	< 3.80E-05	< 2.50E-05	< 2.92E-05
Thiophene	110-02-1	< 2.88E-05	< 4.43E-05	< 2.92E-05	< 3.41E-05
Isobutyl Mercaptan	513-44-0	< 3.08E-05	< 4.75E-05	< 3.13E-05	< 3.65E-05
Diethyl Sulfide	352-93-2	< 3.08E-05	< 4.75E-05	< 3.13E-05	< 3.65E-05
n-Butyl Mercaptan	109-79-5	< 3.08E-05	< 4.75E-05	< 3.13E-05	< 3.65E-05
Dimethyl Disulfide	624-92-0	< 1.58E-05	< 2.44E-05	< 1.61E-05	< 1.88E-05
3-Methylthiophene	616-44-4	< 3.29E-05	< 5.06E-05	< 3.34E-05	< 3.90E-05
Tetrahydrothiophene	110-01-0	< 2.88E-05	< 4.43E-05	< 2.92E-05	< 3.41E-05
2-Ethylthiophene	872-55-9	< 3.70E-05	< 5.70E-05	< 3.76E-05	< 4.39E-05
2-5,Dimethylthiophene	638-02-8	< 3.70E-05	< 5.70E-05	< 3.76E-05	< 4.39E-05
Diethyl Disulfide	110-81-6	< 2.06E-05	< 3.17E-05	< 2.09E-05	< 2.44E-05
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 4.89E-04	< 7.52E-04	< 4.96E-04	< 5.79E-04

TRC

Table I.1-41
Extruder Tread Location B Sulfur

Compound	CAS #	Run 1	Run 2	Run 3	Average
Sulfur (lbs/lb rubber)					
Carbonyl Sulfide	463-58-1	< 6.12E-08	< 9.42E-08	< 6.11E-08	< 7.22E-08
Methyl Mercaptan	74-93-1	< 4.93E-08	< 7.60E-08	< 4.92E-08	< 5.82E-08
Ethyl Mercaptan	75-08-1	< 6.24E-08	< 9.62E-08	< 6.23E-08	< 7.36E-08
Dimethyl Sulfide	75-18-3	< 6.24E-08	< 9.62E-08	< 6.23E-08	< 7.36E-08
Carbon Disulfide	75-15-0	< 3.87E-08	< 5.96E-08	< 3.86E-08	< 4.56E-08
Isopropyl Mercaptan	75-33-2	< 7.49E-08	< 1.15E-07	< 7.48E-08	< 8.84E-08
tert-Butyl Mercaptan	75-66-1	< 9.36E-08	< 1.44E-07	< 9.34E-08	< 1.10E-07
n-Propyl Mercaptan	107-03-9	< 7.49E-08	< 1.15E-07	< 7.48E-08	< 8.84E-08
Ethyl Methyl Sulfide	624-89-5	< 7.49E-08	< 1.15E-07	< 7.48E-08	< 8.84E-08
Thiophene	110-02-1	< 8.74E-08	< 1.35E-07	< 8.72E-08	< 1.03E-07
Isobutyl Mercaptan	513-44-0	< 9.36E-08	< 1.44E-07	< 9.34E-08	< 1.10E-07
Diethyl Sulfide	352-93-2	< 9.36E-08	< 1.44E-07	< 9.34E-08	< 1.10E-07
n-Butyl Mercaptan	109-79-5	< 9.36E-08	< 1.44E-07	< 9.34E-08	< 1.10E-07
Dimethyl Disulfide	624-92-0	< 4.81E-08	< 7.40E-08	< 4.80E-08	< 5.67E-08
3-Methylthiophene	616-44-4	< 9.99E-08	< 1.54E-07	< 9.97E-08	< 1.18E-07
Tetrahydrothiophene	110-01-0	< 8.74E-08	< 1.35E-07	< 8.72E-08	< 1.03E-07
2-Ethylthiophene	872-55-9	< 1.12E-07	< 1.73E-07	< 1.12E-07	< 1.33E-07
2-5,Dimethylthiophene	638-02-8	< 1.12E-07	< 1.73E-07	< 1.12E-07	< 1.33E-07
Diethyl Disulfide	110-81-6	< 6.24E-08	< 9.62E-08	< 6.23E-08	< 7.36E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 1.48E-06	< 2.28E-06	< 1.48E-06	< 1.75E-06
Sulfur (lbs/ft² rubber)					
Carbonyl Sulfide	463-58-1	< 2.64E-08	< 3.82E-08	< 2.93E-08	< 3.13E-08
Methyl Mercaptan	74-93-1	< 2.13E-08	< 3.08E-08	< 2.36E-08	< 2.52E-08
Ethyl Mercaptan	75-08-1	< 2.69E-08	< 3.90E-08	< 2.99E-08	< 3.19E-08
Dimethyl Sulfide	75-18-3	< 2.69E-08	< 3.90E-08	< 2.99E-08	< 3.19E-08
Carbon Disulfide	75-15-0	< 1.67E-08	< 2.42E-08	< 1.85E-08	< 1.98E-08
Isopropyl Mercaptan	75-33-2	< 3.23E-08	< 4.68E-08	< 3.58E-08	< 3.83E-08
tert-Butyl Mercaptan	75-66-1	< 4.04E-08	< 5.84E-08	< 4.48E-08	< 4.79E-08
n-Propyl Mercaptan	107-03-9	< 3.23E-08	< 4.68E-08	< 3.58E-08	< 3.83E-08
Ethyl Methyl Sulfide	624-89-5	< 3.23E-08	< 4.68E-08	< 3.58E-08	< 3.83E-08
Thiophene	110-02-1	< 3.77E-08	< 5.45E-08	< 4.18E-08	< 4.47E-08
Isobutyl Mercaptan	513-44-0	< 4.04E-08	< 5.84E-08	< 4.48E-08	< 4.79E-08
Diethyl Sulfide	352-93-2	< 4.04E-08	< 5.84E-08	< 4.48E-08	< 4.79E-08
n-Butyl Mercaptan	109-79-5	< 4.04E-08	< 5.84E-08	< 4.48E-08	< 4.79E-08
Dimethyl Disulfide	624-92-0	< 2.07E-08	< 3.00E-08	< 2.30E-08	< 2.46E-08
3-Methylthiophene	616-44-4	< 4.31E-08	< 6.23E-08	< 4.78E-08	< 5.11E-08
Tetrahydrothiophene	110-01-0	< 3.77E-08	< 5.45E-08	< 4.18E-08	< 4.47E-08
2-Ethylthiophene	872-55-9	< 4.85E-08	< 7.01E-08	< 5.37E-08	< 5.74E-08
2-5,Dimethylthiophene	638-02-8	< 4.85E-08	< 7.01E-08	< 5.37E-08	< 5.74E-08
Diethyl Disulfide	110-81-6	< 2.69E-08	< 3.90E-08	< 2.99E-08	< 3.19E-08
Total Detected		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total with non-detects		< 6.40E-07	< 9.26E-07	< 7.09E-07	< 7.58E-07

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Table I.1-42
Extruder Location A Particulate Matter

	SBR				Sidewall				EPDM				Tread			
	Run 1	Run 2	Run 3	Avg	Run 1	Run 2	Run 3	Avg	Run 1	Run 2	Run 3	Avg	Run 1	Run 2	Run 3	Avg
Particulate (mg)*	4.7	9.9	1.8	5.5	7.2	0.5	0.0	2.6	2.5	0.0	0.0	0.8	0.0	1.2	0.0	0.4
Volume Sampled (dscf)	32.928	31.217	30.678		30.881	29.251	29.778		30.293	32.967	30.527		29.566	62.097	68.15	
Flowrate (dscfm)	620	590	588		590	556	566		576	646	594		558	512	567	
Particulate (lb/hr)	1.18E-02	2.48E-02	4.51E-03	1.37E-02	1.82E-02	1.13E-03	0.00E+00	6.44E-03	6.31E-03	0.00E+00	0.00E+00	2.10E-03	0.00E+00	1.27E-03	0.00E+00	4.22E-04
Run Time (min)	60	60	60		60	60	60		60	60	60		60	60	60	
Rubber (lbs)	599.4	488.0	484.5		269.5	294.2	273.0		365.8	360.9	341.5		329.5	329.2	334.9	
Particulate (lb/lb rubber)	1.97E-05	5.08E-05	9.31E-06	2.66E-05	6.75E-05	3.85E-06	0.00E+00	2.38E-05	1.73E-05	0.00E+00	0.00E+00	5.75E-06	0.00E+00	3.84E-06	0.00E+00	1.28E-06
Particulate (lb/ft² rubber)	2.10E-05	5.09E-05	9.95E-06	2.73E-05	3.73E-05	2.32E-06	0.00E+00	1.32E-05	7.28E-06	0.00E+00	0.00E+00	2.43E-06	0.00E+00	1.56E-06	0.00E+00	5.19E-07

* Blank Corrected.

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Table I.1-43

Extruder SBR Location A Metals

	Run 1				Run 2				Run 3				Average			
	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg *	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber
Chromium	28.83	7.18E-05	1.20E-07	1.28E-07	95.93	2.40E-04	4.91E-07	4.92E-07	28.53	7.23E-05	1.49E-07	1.59E-07	51.1	1.28E-04	2.54E-07	2.60E-07
Cobalt	2.1	5.23E-06	8.73E-09	9.31E-09	2.15	5.37E-06	1.10E-08	1.10E-08	2.1	5.53E-06	1.14E-08	1.22E-08	2.1	5.38E-06	1.04E-08	1.08E-08
Magnesium	50.26	1.25E-04	2.09E-07	2.23E-07	88.86	2.22E-04	4.55E-07	4.56E-07	32.76	8.63E-05	1.78E-07	1.90E-07	57.3	1.45E-04	2.81E-07	2.90E-07
Nickel	85.7	2.13E-04	3.56E-07	3.80E-07	181	4.52E-04	9.27E-07	9.28E-07	36	9.48E-05	1.96E-07	2.09E-07	100.9	2.54E-04	4.93E-07	5.06E-07
Zinc	24.94	6.21E-05	1.04E-07	1.11E-07	181	4.53E-04	9.27E-07	9.28E-07	46.84	1.23E-04	2.55E-07	2.72E-07	84.3	2.13E-04	4.29E-07	4.37E-07
TOTAL	191.8	4.78E-04	7.97E-07	8.50E-07	549.0	1.37E-03	2.81E-06	2.82E-06	146.2	3.82E-04	7.89E-07	8.43E-07	295.7	7.44E-04	1.47E-06	1.50E-06

* The serial dilution results are reported instead of the original sample result for Cr, Ni, and Zn.

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Table I.1-44
Extruder Sidewall Location A Metals

	Run 1				Run 2				Run 3				Average			
	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber
Chromium	50.8	1.28E-04	4.77E-07	2.64E-07	21.5	5.41E-05	1.84E-07	1.11E-07	8.17	2.04E-05	7.47E-08	4.19E-08	26.8	6.77E-05	2.45E-07	1.39E-07
Cobalt	2.1	5.31E-06	1.97E-08	1.09E-08	2.1	5.28E-06	1.79E-08	1.08E-08	2.1	5.24E-06	1.92E-08	1.08E-08	2.1	5.28E-06	1.90E-08	1.08E-08
Magnesium	43.3	1.09E-04	4.06E-07	2.24E-07	21	5.27E-05	1.79E-07	1.08E-07	13.3	3.31E-05	1.21E-07	6.79E-08	25.8	6.50E-05	2.35E-07	1.33E-07
Nickel	37.8	9.55E-05	3.54E-07	1.96E-07	19.3	4.85E-05	1.65E-07	9.95E-08	8.4	2.10E-05	7.68E-08	4.30E-08	21.8	5.50E-05	1.99E-07	1.13E-07
Zinc	36.5	9.23E-05	3.43E-07	1.89E-07	85.4	2.15E-04	7.30E-07	4.41E-07	14.8	3.71E-05	1.36E-07	7.60E-08	45.6	1.15E-04	4.03E-07	2.35E-07
TOTAL	170.5	4.31E-04	1.60E-06	8.84E-07	149.3	3.75E-04	1.28E-06	7.70E-07	46.8	1.17E-04	4.28E-07	2.40E-07	122.2	3.08E-04	1.10E-06	6.31E-07

TRC

Table I.1-45
Extruder EPDM Location A Metals

	Run 1				Run 2				Run 3				Average			
	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft³ rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft³ rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft³ rubber	µg	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft³ rubber	Emiss Rate lbs/ft³ rubber
Chromium	20.03	5.04E-05	1.38E-07	5.81E-08	9.93	2.57E-05	7.15E-08	3.17E-08	3.39	8.59E-06	2.52E-08	9.61E-09	11.1	2.82E-05	7.81E-08	3.31E-08
Cobalt	2.1	5.28E-06	1.44E-08	6.09E-09	2.1	5.44E-06	1.51E-08	6.70E-09	2.1	5.32E-06	1.56E-08	5.96E-09	2.1	5.35E-06	1.51E-08	6.25E-09
Magnesium	17.56	4.42E-05	1.21E-07	5.10E-08	10.86	2.81E-05	7.82E-08	3.46E-08	2.36	5.98E-06	1.75E-08	6.69E-09	10.3	2.61E-05	7.21E-08	3.08E-08
Nickel	23.5	5.91E-05	1.61E-07	6.82E-08	14.3	3.71E-05	1.03E-07	4.56E-08	5.39	1.37E-05	4.01E-08	1.53E-08	14.4	3.66E-05	1.02E-07	4.30E-08
Zinc	31.24	7.86E-05	2.15E-07	9.07E-08	18.04	4.68E-05	1.30E-07	5.75E-08	6.34	1.61E-05	4.71E-08	1.80E-08	18.5	4.71E-05	1.31E-07	5.54E-08
TOTAL	94.4	2.38E-04	6.49E-07	2.74E-07	55.2	1.43E-04	3.98E-07	1.76E-07	19.6	4.96E-05	1.46E-07	5.55E-08	56.4	1.43E-04	3.97E-07	1.69E-07

TRC

Table I.1-46
Extruder Tread Location A Metals

	Run 1				Run 2				Run 3				Average			
	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber	µg	Emiss Rate lbs/hr	Emiss Rate lbs/lb rubber	Emiss Rate lbs/ft² rubber
Chromium	6.54	1.63E-05	4.95E-08	2.14E-08	3.48	3.80E-06	1.15E-08	4.67E-09	1.97	2.17E-06	6.47E-09	3.10E-09	4.0	7.43E-06	2.25E-08	9.72E-09
Cobalt	2.1	5.24E-06	1.59E-08	6.86E-09	2.1	2.29E-06	6.96E-09	2.82E-09	2.1	2.31E-06	6.90E-09	3.31E-09	2.1	3.28E-06	9.92E-09	4.33E-09
Magnesium	6.36	1.59E-05	4.82E-08	2.08E-08	6.36	6.94E-06	2.11E-08	8.54E-09	3.76	4.14E-06	1.24E-08	5.92E-09	5.5	8.98E-06	2.72E-08	1.17E-08
Nickel	17.2	4.29E-05	1.30E-07	5.62E-08	17.2	1.88E-05	5.70E-08	2.31E-08	9.06	9.97E-06	2.98E-08	1.43E-08	14.5	2.39E-05	7.24E-08	3.12E-08
Zinc	12.4	3.11E-05	9.43E-08	4.07E-08	12.4	1.36E-05	4.12E-08	1.67E-08	15.2	1.68E-05	5.01E-08	2.40E-08	13.4	2.05E-05	6.18E-08	2.71E-08
TOTAL	44.6	1.11E-04	3.38E-07	1.46E-07	41.6	4.53E-05	1.38E-07	5.58E-08	32.1	3.54E-05	1.06E-07	5.06E-08	39.5	6.40E-05	1.94E-07	8.41E-08

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SECTION J

HOT AIR OVEN CURE

Section J

Hot Air Oven Cure

Table Number	Title	No. of Pages
J.1-1	Hot Air Oven Cure Summary Table	1
J.1-2	Hot Air Oven Cure Speciated Semivolatiles	6
J.1-3	Hot Air Oven Cure Speciated Volatiles	6
J.1-4	Hot Air Oven Cure Sulfur Summary	3
J.1-5	Hot Air Oven Cure POM Train Results	1

Table J.1 - 1 Hot Air Oven Cure

Summary Table

	Cmpd.#5	Cmpd.#8	Cmpd.#22
Number of Batches	4	5	2
Initial Weight (lbs)	0.857	1.301	0.475
Final Weight (lbs)	0.845	1.295	0.467
Total Rubber Processed (lbs/hr)	0.857	1.301	0.475
Total VOC (ppm/run)	8.7	11.6	15.1
Total VOC (lbs/hr)	8.03E-04	8.63E-04	5.70E-05
Total VOC (lbs/lb rubber)	5.56E-04	1.68E-03	1.12E-04
Standard Deviation (lbs/lb rubber)	6.47E-04	3.04E-03	5.17E-05
Speciated Total Semivol (µg/m³)-detected	3,850.99	1,031.27	4,164.24
Speciated Total Semivol (lbs/hr)-detected	5.34E-04	1.43E-04	5.77E-04
Speciated Total Semivol (lbs/lb rubber)-detected	6.23E-04	1.10E-04	1.21E-03
Speciated Total Semivol (lbs/lb rubber)-with non-de	< 6.36E-04	< 1.19E-04	< 1.24E-03
Speciated Total Vol. (µg/m³)-detected	957.20	15,738.90	6,341.10
Speciated Total Vol. (lbs/hr)-detected	1.33E-04	2.18E-03	8.36E-04
Speciated Total Vol. (lbs/lb rubber)-detected	1.55E-04	1.68E-03	1.85E-03
Speciated Total Vol. (lbs/lb rubber)-with non-detects	< 2.46E-04	< 1.94E-03	< 2.20E-03
Total Sulfur (µg/m³)-detected	0.0	6,040	5,260
Total Sulfur (lbs/hr)-detected	0.00	8.37E-04	7.29E-04
Total Sulfur (lbs/lb rubber)-detected	0.00	6.43E-04	1.53E-03
Total Sulfur (lbs/lb rubber)-with non-detects	< 7.71E-05	< 1.14E-03	< 2.21E-03
POM Concentration (mg/m³)	2.97	7.88	12.43
POM (lb/hr)	4.12E-04	1.09E-03	1.72E-03
POM (lbs/lb rubber)	4.81E-04	8.40E-04	3.63E-03

Table J.1 - 2 Hot Air Oven Cure

Speciated Semivolatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 µg/m³	Cmpd. #8 µg/m³	Cmpd. #22 µg/m³
	1,2,4-Trichlorobenzene	120-82-1	< 0.61	< 0.68	< 0.63
	1,2,4-Trimethylbenzene	95-63-6	0.82	2.48	0.41
	1,2-Dibromo-3-chloropropane	121-69-7	< 1.64	< 1.70	< 1.54
	1,2-Dichlorobenzene	95-50-1	< 0.72	< 0.76	< 0.69
	1,3-Cyclooctadiene	1700-10-3	< 0.82	0.93	< 0.78
	1,3-Dichlorobenzene	541-73-1	< 0.67	< 0.70	< 0.64
	1,4-Dichlorobenzene	106-46-7	< 0.66	< 0.69	< 0.63
	1,4-Phenylenediamine	106-50-3	< 0.61	< 0.68	< 0.63
	1,5-Cyclooctadiene	111-78-4	< 1.87	< 1.95	< 1.77
	1-Dodecene	112-41-4	< 2.87	< 3.17	< 2.93
	2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.64	< 0.67	< 0.61
	2,4,5-Trichlorophenol	95-95-4	< 0.80	< 1.02	< 0.93
	2,4,6-Trichlorophenol	88-06-2	< 0.78	< 1.00	< 0.90
	2,4-Dichlorophenol	120-83-2	< 0.65	< 0.73	< 0.67
	2,4-Dimethylphenol	105-67-9	< 0.55	< 0.62	< 0.57
	2,4-Dinitrophenol	51-28-5	< 3.81	< 4.87	< 4.41
	2,4-Dinitrotoluene	121-14-2	< 0.89	< 1.15	< 1.03
	2,6-Dinitrotoluene	606-20-2	< 1.16	< 1.48	< 1.33
	2-Chloroacetophenone	1341-24-8	< 0.32	< 0.35	< 0.32
	2-Chloronaphthalene	91-58-7	< 0.31	< 0.40	< 0.36
	2-Chlorophenol	95-57-8	< 0.77	< 0.80	< 0.73
	2-Furaldehyde	98-01-1	0.81	0.66	1.54
	2-Methylnaphthalene	91-57-6	2.65	4.16	5.22
	2-Methylphenol	95-48-7	< 0.77	< 0.80	< 0.73
	2-Nitroaniline	88-74-4	< 1.21	< 1.55	< 1.40
	2-Nitrophenol	88-75-5	< 1.16	< 1.29	< 1.18
	3,3'-Dichlorobenzidine	91-94-1	< 0.52	< 0.56	< 0.41
	3,3'-Dimethoxybenzidine	119-90-4	< 0.81	< 0.89	< 0.65
	3,3'-Dimethylbenzidine	119-93-7	< 0.30	< 0.33	< 0.24
	3-Furaldehyde	498-60-2	0.53	< 0.63	< 1.40
	3-Methylstyrene	100-80-1	< 0.70	< 0.74	< 0.67
	3-Nitroaniline	99-09-2	< 1.30	< 1.66	< 1.50
	3/4-Methylphenol	108-39-4/106-44-5	1.97	< 0.77	< 0.70
	4,4'-Methylenedianiline	101-77-9	< 0.72	< 0.79	< 0.58
	4,6-Dinitro-2-methylphenol	88-85-7	< 1.66	< 2.08	< 1.71
	4-Aminobiphenyl	92-67-1	< 0.31	< 0.39	< 0.32
	4-Bromophenyl-phenylether	101-55-3	< 0.80	< 1.00	< 0.83
	4-Chloroaniline	106-47-8	< 0.51	< 0.56	< 0.52
	4-Chlorophenyl-phenylether	7005-72-3	< 0.51	< 0.64	< 0.58
	4-Chlorostyrene	1073-67-2	< 0.94	< 0.98	< 0.90
	4-Chloro-3-methylphenol	59-50-7	< 0.63	< 0.71	< 0.66
	4-Methylstyrene		< 0.71	< 0.74	< 0.67
	4-Nitroaniline	100-01-6	< 1.32	< 1.69	< 1.52
	4-Nitrobiphenyl	92-93-3	< 0.57	< 0.71	< 0.59
	4-Nitrophenol	100-02-7	< 1.84	< 2.35	< 2.13
	a,a,a-Trichlorotoluene	98-07-7	< 0.57	< 0.64	< 0.59
	Acenaphthene	83-32-9	< 0.32	< 0.41	0.37
	Acenaphthylene	208-96-8	< 3.64	0.52	2.53
	Acetophenone	98-86-2	1.89	2.55	8.55
T	Alkane		15.86	102.78	545.13
T	Alkyl acid		718.49	304.35	1582.66
	Aniline	62-53-3	< 0.47	1.39	3.03
	Anthracene	120-12-7	2.08	2.76	1.22
	Benzaldehyde	100-52-7	3.00	5.59	56.04
	Benzidine	92-87-5	< 0.31	< 0.33	< 0.24
	Benzoic acid	65-85-0	47.71	70.54	65.69
	Benzonitrile	100-47-0	< 0.43	< 0.44	< 0.40
T	Benzophenone	119-61-9		9.98	
T	Benzothiazole	95-16-9	188.29	40.91	63.66
	Benzo(a)anthracene	56-55-3	< 0.16	< 0.17	< 0.13
	Benzo(a)pyrene	50-32-8	< 0.12	< 0.13	< 0.10
	Benzo(b)fluoranthene	205-99-2	< 0.11	< 0.11	< 0.09
	Benzo(g,h,i)perylene	191-24-2	< 0.12	< 0.13	< 0.10
	Benzo(k)fluoranthene	207-08-9	< 0.11	< 0.11	< 0.09
	Benzyl alcohol	100-51-6	< 0.68	< 1.20	1.62
	Benzyl Chloride	100-44-7	< 0.36	< 0.37	< 0.34
	Biphenyl	92-52-4	2.33	3.68	< 13.58

Table J.1 - 2 Hot Air Oven Cure
Speciated Semivolatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 µg/m³	Cmpd. #8 µg/m³	Cmpd. #22 µg/m³
	bis(2-Chloroethoxy)methane	111-91-1	< 0.47	< 0.51	< 0.47
	bis(2-Chloroethyl)ether	111-44-4	< 0.70	< 0.74	< 0.67
	bis(2-Ethylhexyl)phthalate	117-81-7	< 0.17	2.57	3.61
T	Butylatedhydroxytoluene	128-37-0		9.98	
	Butylbenzylphthalate	85-68-7	0.48	0.46	< 0.05
T	Butylbutanamine				190.99
	Camphene	79-92-5	< 0.94	< 0.98	0.89
	Chrysene	218-01-9	< 0.17	0.27	< 0.13
	Cumene	98-82-8	< 0.32	0.76	1.32
	Cyclohexanone	108-94-1	6.69	2.87	273.13
	Cyclohexylamine	108-91-8	< 0.80	< 0.83	< 0.76
	Dibenzofuran	132-64-9	12.07	19.70	11.26
	Dibenz(a,h)anthracene	53-70-3	< 0.14	< 0.15	< 0.11
T	Dicyclohexyldisulphide	2550-40-5	96.13		
	Diethylphthalate	84-66-2	0.72	0.79	1.28
	Dimethylaminoazobenzene	60-11-7	< 0.46	< 0.50	< 0.38
	Dimethylphthalate	131-11-3	0.29	0.30	< 0.30
	Diphenylamine	122-39-4	0.00	< 0.51	4.36
	Di-n-butylphthalate	84-74-2	47.08	0.00	3.43
	Di-n-octylphthalate	117-84-0	< 0.07	< 0.08	0.06
	Fluoranthene	206-44-0	1.01	1.32	1.15
	Fluorene	86-73-7	< 0.27	1.05	1.18
	Hexachlorobenzene	118-74-1	< 0.63	< 0.79	< 0.65
	Hexachlorobutadiene	87-68-3	< 0.98	< 1.09	< 1.00
	Hexachlorocyclopentadiene	77-47-4	< 0.96	< 1.24	< 1.11
	Hexachloroethane	67-72-1	< 1.27	< 1.32	< 1.20
	Hydroquinone	123-31-9	< 0.55	< 0.61	< 0.56
	Indeno(1,2,3-cd)pyrene	193-39-5	< 0.11	< 0.12	< 0.09
	Isooctanol	26952-21-6	< 9.97	< 10.35	< 9.41
	Isophorone	78-59-1	< 0.31	< 0.34	< 0.31
T	Isothiocyanatobutane				39.79
T	Mercaptobenzothiazole	149-30-4	56.49		22.88
T	Methenamine	100-97-0	1847.26	16.96	28.85
T	Methyl Ester Benzoic Acid			24.95	28.85
	Methylene bis-chloroaniline	101-14-4	< 0.97	< 1.07	< 0.78
T	Methylthiobenzothiazole			9.98	18.90
	N,N-Diethylaniline	91-66-7	< 0.59	< 0.61	< 0.56
	N,N-Dimethylaniline	121-69-7	< 0.43	< 0.47	< 4.32
	Naphthalene	91-20-3	8.27	10.07	7.94
	Nitrobenzene	98-95-3	< 0.55	< 0.62	< 0.57
	n-Nitrosodiethylamine	55-18-5	< 1.71	< 1.79	< 1.62
	n-Nitrosodimethylamine	62-75-9	< 1.27	< 1.32	< 1.19
	n-Nitrosomorpholine	59-89-2	< 1.52	< 1.58	< 1.43
	n-Nitroso-di-n-propylamine	621-64-7	< 1.29	< 1.34	< 1.22
	o-Anisidine	90-04-0	< 0.81	< 0.90	< 0.84
	o-Toluidine	95-53-4	< 0.51	< 0.53	< 0.48
	Pentachloronitrobenzene	82-68-8	< 2.15	< 2.68	< 2.22
	Pentachlorophenol	87-86-5	< 1.00	< 1.25	< 1.02
	Phenanthrene	85-01-8	15.10	16.98	7.68
	Phenol	108-95-2	7.40	3.20	7.41
	Phthalimide	85-41-6	44.16	< 2.02	87.73
	Pyrene	129-00-0	3.91	2.84	2.55
	Pyridine	110-86-1	< 0.73	5.66	< 0.69
T	Substituted Aromatic Hydrocarbon	70693-06-0		12.97	351.15
T	Substituted Benzene	71-43-2		19.96	
T	Substituted Cyclic Hydrocarbon		100.09		18.90
T	Substituted Hydrocarbon		500.46	314.33	255.65
T	Substituted Indole	120-72-9			32.83
T	Substituted Naphthalene	91-20-3	116.94		
T	Substituted Quinoline	91-22-5			422.77
	Trifluralin	1582-09-8	< 1.06	< 1.36	< 1.22
	Total detected		3850.99	1031.27	4164.24
	Total with non-detects		< 3930.74	< 1118.16	< 4257.13

A "0" signifies a value that was blank-corrected to zero or a negative value.

A "T" signifies a Tentatively Identified Compound (TIC). A corresponding blank space means that the compound was not detected in that sample.

Table J.1 - 2 Hot Air Oven Cure

Speciated Semivolatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 lbs/hr	Cmpd. #8 lbs/hr	Cmpd. #22 lbs/hr
	1,2,4-Trichlorobenzene	120-82-1	< 8.52E-08	< 9.41E-08	< 8.69E-08
	1,2,4-Trimethylbenzene	95-63-6	1.14E-07	3.44E-07	5.65E-08
	1,2-Dibromo-3-chloropropane	121-69-7	< 2.27E-07	< 2.35E-07	< 2.14E-07
	1,2-Dichlorobenzene	95-50-1	< 1.00E-07	< 1.05E-07	< 9.51E-08
	1,3-Cyclooctadiene	1700-10-3	< 1.14E-07	1.29E-07	< 1.08E-07
	1,3-Dichlorobenzene	541-73-1	< 9.34E-08	< 9.68E-08	< 8.82E-08
	1,4-Dichlorobenzene	106-46-7	< 9.20E-08	< 9.54E-08	8.69E-08
	1,4-Phenylenediamine	106-50-3	< 8.52E-08	< 9.41E-08	< 8.69E-08
	1,5-Cyclooctadiene	111-78-4	< 2.60E-07	< 2.70E-07	< 2.45E-07
	1-Dodecane	112-41-4	< 3.98E-07	< 4.40E-07	< 4.07E-07
	2,2'-oxybis(1-Chloropropane)	108-60-1	< 8.93E-08	< 9.27E-08	< 8.41E-08
	2,4,5-Trichlorophenol	95-95-4	< 1.11E-07	< 1.41E-07	< 1.28E-07
	2,4,6-Trichlorophenol	88-06-2	< 1.09E-07	< 1.38E-07	< 1.24E-07
	2,4-Dichlorophenol	120-83-2	< 9.07E-08	< 1.01E-07	< 9.24E-08
	2,4-Dimethylphenol	105-67-9	< 7.69E-08	< 8.58E-08	< 7.86E-08
	2,4-Dinitrophenol	51-28-5	< 5.27E-07	< 6.75E-07	< 6.11E-07
	2,4-Dinitrotoluene	121-14-2	< 1.24E-07	< 1.59E-07	< 1.43E-07
	2,6-Dinitrotoluene	606-20-2	< 1.61E-07	< 2.05E-07	< 1.85E-07
	2-Chloroacetophenone	1341-24-8	< 4.40E-08	< 4.84E-08	< 4.41E-08
	2-Chloronaphthalene	91-58-7	< 4.26E-08	< 5.53E-08	< 4.96E-08
	2-Chlorophenol	95-57-8	< 1.07E-07	< 1.11E-07	< 1.01E-07
	2-Furaldehyde	98-01-1	1.13E-07	9.13E-08	2.14E-07
	2-Methylnaphthalene	91-57-6	3.67E-07	5.77E-07	7.24E-07
	2-Methylphenol	95-48-7	< 1.07E-07	< 1.11E-07	< 1.01E-07
	2-Nitroaniline	88-74-4	< 1.68E-07	< 2.14E-07	< 1.94E-07
	2-Nitrophenol	88-75-5	< 1.61E-07	< 1.78E-07	< 1.64E-07
	3,3'-Dichlorobenzidine	91-94-1	< 7.14E-08	< 7.75E-08	< 5.65E-08
	3,3'-Dimethoxybenzidine	119-90-4	< 1.13E-07	< 1.23E-07	< 8.96E-08
	3,3'-Dimethylbenzidine	119-93-7	< 4.12E-08	< 4.56E-08	< 3.31E-08
	3-Furaldehyde	498-60-2	7.28E-08	< 8.71E-08	< 1.94E-07
	3-Methylstyrene	100-80-1	< 9.75E-08	< 1.02E-07	< 9.24E-08
	3-Nitroaniline	99-09-2	< 1.80E-07	< 2.30E-07	< 2.08E-07
	3/4-Methylphenol	108-39-4/106-44-5	2.73E-07	< 1.07E-07	9.65E-08
	4,4'-Methylenedianiline	101-77-9	< 1.00E-07	< 1.09E-07	< 8.00E-08
	4,6-Dinitro-2-methylphenol	88-85-7	< 2.31E-07	< 2.88E-07	< 2.37E-07
	4-Aminobiphenyl	92-67-1	< 4.26E-08	< 5.39E-08	< 4.41E-08
	4-Bromophenyl-phenylether	101-55-3	< 1.11E-07	< 1.38E-07	< 1.14E-07
	4-Chloroaniline	106-47-8	< 7.01E-08	< 7.75E-08	< 7.17E-08
	4-Chlorophenyl-phenylether	7005-72-3	< 7.01E-08	< 8.85E-08	< 8.00E-08
	4-Chlorostyrene	1073-67-2	< 1.30E-07	< 1.36E-07	< 1.24E-07
	4-Chloro-3-methylphenol	59-50-7	< 8.79E-08	< 9.82E-08	< 9.10E-08
	4-Methylstyrene		< 9.89E-08	< 1.02E-07	< 9.24E-08
	4-Nitroaniline	100-01-6	< 1.83E-07	< 2.34E-07	< 2.11E-07
	4-Nitrobiphenyl	92-93-3	< 7.97E-08	< 9.82E-08	< 8.13E-08
	4-Nitrophenol	100-02-7	< 2.55E-07	< 3.26E-07	< 2.95E-07
	a,a,a-Trichlorotoluene	98-07-7	< 7.97E-08	< 8.85E-08	< 8.13E-08
	Acenaphthene	83-32-9	< 4.40E-08	< 5.67E-08	5.10E-08
	Acenaphthylene	208-96-8	< 5.04E-07	7.19E-08	< 3.50E-07
	Acetophenone	98-86-2	2.62E-07	3.54E-07	1.19E-06
T	Alkane		2.20E-06	1.42E-05	7.56E-05
T	Alkyl acid		9.96E-05	4.22E-05	2.19E-04
	Aniline	62-53-3	< 6.46E-08	1.92E-07	4.21E-07
	Anthracene	120-12-7	2.88E-07	3.83E-07	< 1.70E-07
	Benzaldehyde	100-52-7	4.16E-07	7.75E-07	7.77E-06
	Benzidine	92-87-5	< 4.26E-08	< 4.56E-08	< 3.31E-08
	Benzoic acid	65-85-0	6.61E-06	9.78E-06	9.11E-06
	Benzonitrile	100-47-0	< 5.91E-08	< 6.09E-08	< 5.52E-08
T	Benzophenone	119-61-9		1.38E-06	
T	Benzothiazole	95-16-9	2.61E-05	5.67E-06	8.82E-06
	Benzo(a)anthracene	56-55-3	< 2.20E-08	< 2.35E-08	< 1.79E-08
	Benzo(a)pyrene	50-32-8	< 1.65E-08	< 1.80E-08	< 1.38E-08
	Benzo(b)fluoranthene	205-99-2	< 1.51E-08	< 1.52E-08	< 1.24E-08
	Benzo(g,h,i)perylene	191-24-2	< 1.65E-08	< 1.80E-08	< 1.38E-08
	Benzo(k)fluoranthene	207-08-9	< 1.51E-08	< 1.52E-08	< 1.24E-08
	Benzyl alcohol	100-51-6	< 9.48E-08	< 1.66E-07	2.25E-07
	Benzyl Chloride	100-44-7	< 4.95E-08	< 5.12E-08	< 4.69E-08
	Biphenyl	92-52-4	3.23E-07	5.10E-07	< 1.88E-06

Table J.1 - 2 Hot Air Oven Cure
Speciated Semivolatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 lbs/hr	Cmpd. #8 lbs/hr	Cmpd. #22 lbs/hr
	bis(2-Chloroethoxy)methane	111-91-1	< 6.46E-08	< 7.05E-08	< 6.48E-08
	bis(2-Chloroethyl)ether	111-44-4	< 9.75E-08	< 1.02E-07	< 9.24E-08
	bis(2-Ethylhexyl)phthalate	117-81-7	< 2.34E-08	3.57E-07	5.01E-07
T	Butylatedhydroxytoluene	128-37-0		1.38E-06	
	Butylbenzylphthalate	85-68-7	6.59E-08	6.36E-08	6.89E-09
T	Butylbutanamine				2.65E-05
	Camphene	79-92-5	< 1.30E-07	< 1.36E-07	1.23E-07
	Chrysene	218-01-9	< 2.34E-08	3.73E-08	< 1.79E-08
	Cumene	98-82-8	< 4.40E-08	1.05E-07	1.83E-07
	Cyclohexanone	108-94-1	9.27E-07	3.98E-07	3.79E-05
	Cyclohexylamine	108-91-8	< 1.11E-07	< 1.15E-07	< 1.05E-07
	Dibenzofuran	132-64-9	1.67E-06	2.73E-06	1.56E-06
	Dibenz(a,h)anthracene	53-70-3	< 1.92E-08	< 2.07E-08	< 1.52E-08
T	Dicyclohexyldisulphide	2550-40-5	1.33E-05		
	Diethylphthalate	84-66-2	1.00E-07	1.09E-07	1.78E-07
	Dimethylaminoazobenzene	60-11-7	< 6.32E-08	< 6.92E-08	< 4.96E-08
	Dimethylphthalate	131-11-3	3.98E-08	4.15E-08	< 4.14E-08
	Diphenylamine	122-39-4	0.00E+00	< 7.05E-08	6.04E-07
	Di-n-butylphthalate	84-74-2	6.53E-06	0.00E+00	4.76E-07
	Di-n-octylphthalate	117-84-0	< 9.62E-09	< 1.11E-08	8.27E-09
	Fluoranthene	206-44-0	1.40E-07	1.83E-07	< 1.60E-07
	Fluorene	86-73-7	< 3.71E-08	1.45E-07	< 1.64E-07
	Hexachlorobenzene	118-74-1	< 8.79E-08	< 1.09E-07	< 8.96E-08
	Hexachlorobutadiene	87-68-3	< 1.36E-07	< 1.51E-07	< 1.39E-07
	Hexachlorocyclopentadiene	77-47-4	< 1.33E-07	< 1.72E-07	< 1.54E-07
	Hexachloroethane	67-72-1	< 1.76E-07	< 1.83E-07	< 1.67E-07
	Hydroquinone	123-31-9	< 7.55E-08	< 8.44E-08	< 7.72E-08
	Indeno(1,2,3-cd)pyrene	193-39-5	< 1.51E-08	< 1.66E-08	< 1.24E-08
	Isooctanol	26952-21-6	< 1.38E-06	< 1.43E-06	< 1.30E-06
	Isophorone	78-59-1	< 4.26E-08	< 4.70E-08	< 4.27E-08
T	Isothiocyanatobutane				5.52E-06
T	Mercaptobenzothiazole	149-30-4	7.83E-06		3.17E-06
T	Methenamine	100-97-0	2.56E-04	2.35E-06	4.00E-06
T	Methyl Ester Benzoic Acid			3.46E-06	4.00E-06
	Methylene bis-chloroaniline	101-14-4	< 1.35E-07	< 1.48E-07	< 1.08E-07
T	Methylthiobenzothiazole			1.38E-06	2.62E-06
	N,N-Diethylaniline	91-66-7	< 8.24E-08	< 8.44E-08	< 7.72E-08
	N,N-Dimethylaniline	121-69-7	< 5.91E-08	< 6.50E-08	< 5.98E-07
	Naphthalene	91-20-3	1.15E-06	1.40E-06	1.10E-06
	Nitrobenzene	98-95-3	< 7.69E-08	< 8.58E-08	< 7.86E-08
	n-Nitrosodiethylamine	55-18-5	< 2.38E-07	< 2.48E-07	< 2.25E-07
	n-Nitrosodimethylamine	62-75-9	< 1.76E-07	< 1.83E-07	< 1.65E-07
	n-Nitrosomorpholine	59-89-2	< 2.10E-07	< 2.19E-07	< 1.99E-07
	n-Nitroso-di-n-propylamine	621-64-7	< 1.79E-07	< 1.85E-07	< 1.70E-07
	o-Anisidine	90-04-0	< 1.13E-07	< 1.24E-07	< 1.16E-07
	o-Toluidine	95-53-4	< 7.01E-08	< 7.33E-08	< 6.62E-08
	Pentachloronitrobenzene	82-68-8	< 2.98E-07	< 3.72E-07	< 3.07E-07
	Pentachlorophenol	87-86-5	< 1.39E-07	< 1.73E-07	< 1.42E-07
	Phenanthrene	85-01-8	2.09E-06	2.35E-06	1.06E-06
	Phenol	108-95-2	1.03E-06	4.44E-07	1.03E-06
	Phthalimide	85-41-6	6.12E-06	< 2.79E-07	1.22E-05
	Pyrene	129-00-0	5.43E-07	3.94E-07	3.53E-07
	Pyridine	110-86-1	< 1.02E-07	7.84E-07	< 9.51E-08
T	Substituted Aromatic Hydrocarbon	70693-06-0		1.80E-06	4.87E-05
T	Substituted Benzene	71-43-2		2.77E-06	
T	Substituted Cyclic Hydrocarbon		1.39E-05		2.62E-06
T	Substituted Hydrocarbon		6.94E-05	4.36E-05	3.54E-05
T	Substituted Indole	120-72-9			4.55E-06
T	Substituted Naphthalene	91-20-3	1.62E-05		
T	Substituted Quinoline	91-22-5			5.86E-05
	Trifluralin	1582-09-8	< 1.47E-07	< 1.88E-07	< 1.70E-07
	Total detected		5.34E-04	1.43E-04	5.77E-04
	Total with non-detects		< 5.45E-04	< 1.55E-04	< 5.90E-04

A "0" signifies a value that was blank-corrected to zero or a negative value.

A "T" signifies a Tentatively Identified Compound (TIC). A corresponding blank space means that the compound was not detected in that sample.

Table J.1 - 2 Hot Air Oven Cure

Speciated Semivolatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 lbs/lb rubber	Cmpd. #8 lbs/lb rubber	Cmpd. #22 lbs/lb rubber
	1,2,4-Trichlorobenzene	120-82-1	< 9.94E-08	< 7.23E-08	< 1.83E-07
	1,2,4-Trimethylbenzene	95-63-6	1.33E-07	2.65E-07	1.19E-07
	1,2-Dibromo-3-chloropropane	121-69-7	< 2.64E-07	< 1.81E-07	< 4.50E-07
	1,2-Dichlorobenzene	95-50-1	< 1.17E-07	< 8.08E-08	< 2.00E-07
	1,3-Cyclooctadiene	1700-10-3	< 1.33E-07	9.89E-08	< 2.26E-07
	1,3-Dichlorobenzene	541-73-1	< 1.09E-07	< 7.44E-08	< 1.86E-07
	1,4-Dichlorobenzene	106-46-7	< 1.07E-07	< 7.34E-08	1.83E-07
	1,4-Phenylenediamine	106-50-3	< 9.94E-08	< 7.23E-08	< 1.83E-07
	1,5-Cyclooctadiene	111-78-4	< 3.03E-07	< 2.07E-07	< 5.17E-07
	1-Dodecene	112-41-4	< 4.65E-07	< 3.38E-07	< 8.56E-07
	2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.04E-07	< 7.12E-08	< 1.77E-07
	2,4,5-Trichlorophenol	95-95-4	< 1.30E-07	< 1.08E-07	< 2.70E-07
	2,4,6-Trichlorophenol	88-06-2	< 1.27E-07	< 1.06E-07	< 2.61E-07
	2,4-Dichlorophenol	120-83-2	< 1.06E-07	< 7.76E-08	< 1.94E-07
	2,4-Dimethylphenol	105-67-9	< 8.98E-08	< 6.59E-08	< 1.65E-07
	2,4-Dinitrophenol	51-28-5	< 6.15E-07	< 5.19E-07	< 1.29E-06
	2,4-Dinitrotoluene	121-14-2	< 1.44E-07	< 1.22E-07	< 3.02E-07
	2,6-Dinitrotoluene	606-20-2	< 1.88E-07	< 1.57E-07	< 3.89E-07
	2-Chloroacetophenone	1341-24-8	< 5.13E-08	< 3.72E-08	< 9.29E-08
	2-Chloronaphthalene	91-58-7	< 4.97E-08	< 4.25E-08	< 1.04E-07
	2-Chlorophenol	95-57-8	< 1.25E-07	< 8.50E-08	< 2.12E-07
	2-Furaldehyde	98-01-1	1.31E-07	7.02E-08	4.50E-07
	2-Methylnaphthalene	91-57-6	4.28E-07	4.43E-07	1.52E-06
	2-Methylphenol	95-48-7	< 1.25E-07	< 8.50E-08	< 2.12E-07
	2-Nitroaniline	88-74-4	< 1.96E-07	< 1.65E-07	< 4.09E-07
	2-Nitrophenol	88-75-5	< 1.88E-07	< 1.37E-07	< 3.45E-07
	3,3'-Dichlorobenzidine	91-94-1	< 8.33E-08	< 5.95E-08	< 1.19E-07
	3,3'-Dimethoxybenzidine	119-90-4	< 1.31E-07	< 9.46E-08	< 1.89E-07
	3,3'-Dimethylbenzidine	119-93-7	< 4.81E-08	< 3.51E-08	< 6.97E-08
	3-Furaldehyde	498-60-2	8.49E-08	< 6.70E-08	< 4.09E-07
	3-Methylstyrene	100-80-1	< 1.14E-07	< 7.87E-08	< 1.94E-07
	3-Nitroaniline	99-09-2	< 2.10E-07	< 1.76E-07	< 4.38E-07
	3/4-Methylphenol	108-39-4/106-44-5	3.19E-07	< 8.19E-08	2.03E-07
	4,4'-Methylenedianiline	101-77-9	< 1.17E-07	< 8.40E-08	< 1.68E-07
	4,6-Dinitro-2-methylphenol	534-52-1	< 2.69E-07	< 2.21E-07	< 4.99E-07
	4-Aminobiphenyl	92-67-1	< 4.97E-08	< 4.15E-08	< 9.29E-08
	4-Bromophenyl-phenylether	101-55-3	< 1.30E-07	< 1.06E-07	< 2.41E-07
	4-Chloroaniline	106-47-8	< 8.17E-08	< 5.95E-08	< 1.51E-07
	4-Chlorophenyl-phenylether	70005-72-3	< 8.17E-08	< 6.80E-08	< 1.68E-07
	4-Chlorostyrene	1073-67-2	< 1.52E-07	< 1.04E-07	< 2.61E-07
	4-Chloro-3-methylphenol	59-50-7	< 1.03E-07	< 7.55E-08	< 1.92E-07
	4-Methylstyrene	622-97-9	< 1.15E-07	< 7.87E-08	< 1.94E-07
	4-Nitroaniline	100-01-6	< 2.13E-07	< 1.80E-07	< 4.44E-07
	4-Nitrobiphenyl	92-93-3	< 9.30E-08	< 7.55E-08	< 1.71E-07
	4-Nitrophenol	100-02-7	< 2.98E-07	< 2.51E-07	< 6.21E-07
	a,a,a-Trichlorotoluene	98-07-7	< 9.30E-08	< 6.80E-08	< 1.71E-07
	Acenaphthene	83-32-9	< 5.13E-08	< 4.36E-08	1.07E-07
	Acenaphthylene	208-96-8	< 5.88E-07	5.53E-08	< 7.37E-07
	Acetophenone	98-86-2	3.06E-07	2.72E-07	2.50E-06
T	Alkane		2.56E-06	1.10E-05	1.59E-04
T	Alkyl acid		1.16E-04	3.24E-05	4.62E-04
	Aniline	62-53-3	< 7.53E-08	1.48E-07	8.85E-07
	Anthracene	120-12-7	3.37E-07	2.94E-07	< 3.57E-07
	Benzaldehyde	100-52-7	4.86E-07	5.95E-07	1.64E-05
	Benzidine	92-87-5	< 4.97E-08	< 3.51E-08	< 6.97E-08
	Benzoic acid	65-85-0	7.72E-06	7.52E-06	1.92E-05
	Benzonitrile	100-47-0	< 6.89E-08	< 4.68E-08	< 1.16E-07
T	Benzophenone	119-61-9		1.06E-06	
T	Benzothiazole	95-16-9	3.05E-05	4.36E-06	1.86E-05
	Benzo(a)anthracene	56-55-3	< 2.56E-08	< 1.81E-08	< 3.77E-08
	Benzo(a)pyrene	50-32-8	< 1.92E-08	< 1.38E-08	< 2.90E-08
	Benzo(b)fluoranthene	205-99-2	< 1.76E-08	< 1.17E-08	< 2.61E-08
	Benzo(g,h,i)perylene	191-24-2	< 1.92E-08	< 1.38E-08	< 2.90E-08
	Benzo(k)fluoranthene	207-08-9	< 1.76E-08	< 1.17E-08	< 2.61E-08
	Benzyl alcohol	100-51-6	< 1.11E-07	< 1.28E-07	4.73E-07
	Benzyl Chloride	100-44-7	< 5.77E-08	< 3.93E-08	< 9.87E-08
	Biphenyl	92-52-4	3.77E-07	3.92E-07	< 3.96E-06

Table J.1 - 2 Hot Air Oven Cure

Speciated Semivolatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 lbs/lb rubber	Cmpd. #8 lbs/lb rubber	Cmpd. #22 lbs/lb rubber
	bis(2-Chloroethoxy)methane	111-91-1	< 7.53E-08	< 5.42E-08	< 1.36E-07
	bis(2-Chloroethyl)ether	111-44-4	< 1.14E-07	< 7.87E-08	< 1.94E-07
	bis(2-Ethylhexyl)phthalate	117-81-7	< 2.72E-08	2.74E-07	1.05E-06
T	Butylatedhydroxytoluene	128-37-0		1.06E-06	
	Butylbenzylphthalate	85-68-7	7.69E-08	4.89E-08	1.45E-08
T	Butylbutanamine				5.57E-05
	Camphene	79-92-5	< 1.52E-07	< 1.04E-07	2.58E-07
	Chrysene	218-01-9	< 2.72E-08	2.87E-08	< 3.77E-08
	Cumene	98-82-8	< 5.13E-08	8.08E-08	3.86E-07
	Cyclohexanone	108-94-1	1.08E-06	3.06E-07	7.97E-05
	Cyclohexylamine	108-91-8	< 1.30E-07	< 8.82E-08	< 2.21E-07
	Dibenzofuran	132-64-9	1.95E-06	2.10E-06	3.29E-06
	Dibenz(a,h)anthracene	53-70-3	< 2.24E-08	< 1.59E-08	< 3.19E-08
T	Dicyclohexyldisulphide	2550-40-5	1.55E-05		
	Diethylphthalate	84-66-2	1.17E-07	8.40E-08	3.74E-07
	Dimethylaminoazobenzene	60-11-7	< 7.37E-08	< 5.32E-08	< 1.04E-07
	Dimethylphthalate	131-11-3	4.65E-08	3.19E-08	< 8.71E-08
	Diphenylamine	122-39-4	0.00E+00	< 5.42E-08	1.27E-06
	Di-n-butylphthalate	84-74-2	7.61E-06	0.00E+00	1.00E-06
	Di-n-octylphthalate	117-84-0	< 1.12E-08	< 8.50E-09	1.74E-08
	Fluoranthene	206-44-0	1.63E-07	1.40E-07	< 3.37E-07
	Fluorene	86-73-7	< 4.33E-08	1.12E-07	< 3.45E-07
	Hexachlorobenzene	118-74-1	< 1.03E-07	< 8.40E-08	< 1.89E-07
	Hexachlorobutadiene	87-68-3	< 1.59E-07	< 1.16E-07	< 2.93E-07
	Hexachlorocyclopentadiene	77-47-4	< 1.55E-07	< 1.32E-07	< 3.25E-07
	Hexachloroethane	67-72-1	< 2.05E-07	< 1.40E-07	< 3.51E-07
	Hydroquinone	123-31-9	< 8.82E-08	< 6.49E-08	< 1.63E-07
	Indeno(1,2,3-cd)pyrene	193-39-5	< 1.76E-08	< 1.28E-08	< 2.61E-08
	Isooctanol	26952-21-6	< 1.61E-06	< 1.10E-06	< 2.75E-06
	Isophorone	78-59-1	< 4.97E-08	< 3.61E-08	< 9.00E-08
T	Isothiocyanatobutane				1.16E-05
T	Mercaptobenzothiazole	149-30-4	9.14E-06		6.68E-06
T	Methenamine	100-97-0	2.99E-04	1.81E-06	8.42E-06
T	Methyl Ester Benzoic Acid			2.66E-06	8.42E-06
	Methylene bis-chloroaniline	101-14-4	< 1.57E-07	< 1.14E-07	< 2.26E-07
T	Methylthiobenzothiazole			1.06E-06	5.52E-06
	N,N-Diethylaniline	91-66-7	< 9.62E-08	< 6.49E-08	< 1.63E-07
	N,N-Dimethylaniline	121-69-7	< 6.89E-08	< 5.00E-08	< 1.26E-06
	Naphthalene	91-20-3	1.34E-06	1.07E-06	2.32E-06
	Nitrobenzene	98-95-3	< 8.98E-08	< 6.59E-08	< 1.65E-07
	n-Nitrosodiethylamine	55-18-5	< 2.77E-07	< 1.90E-07	< 4.73E-07
	n-Nitrosodimethylamine	62-75-9	< 2.05E-07	< 1.40E-07	< 3.48E-07
	n-Nitrosomorpholine	59-89-2	< 2.45E-07	< 1.68E-07	< 4.18E-07
	n-Nitroso-di-n-propylamine	621-64-7	< 2.08E-07	< 1.42E-07	< 3.57E-07
	o-Anisidine	90-04-0	< 1.31E-07	< 9.57E-08	< 2.44E-07
	o-Toluidine	95-53-4	< 8.17E-08	< 5.63E-08	< 1.39E-07
	Pentachloronitrobenzene	82-68-8	< 3.48E-07	< 2.86E-07	< 6.47E-07
	Pentachlorophenol	87-86-5	< 1.62E-07	< 1.33E-07	< 2.99E-07
	Phenanthrene	85-01-8	2.44E-06	1.81E-06	2.24E-06
	Phenol	108-95-2	1.20E-06	3.41E-07	2.16E-06
	Phthalimide	85-41-6	7.14E-06	< 2.15E-07	2.56E-05
	Pyrene	129-00-0	6.33E-07	3.03E-07	7.43E-07
	Pyridine	110-86-1	< 1.19E-07	6.03E-07	< 2.00E-07
T	Substituted Aromatic Hydrocarbon	70693-06-0		1.38E-06	1.02E-04
T	Substituted Benzene	71-43-2		2.13E-06	
T	Substituted Cyclic Hydrocarbon		1.62E-05		5.52E-06
T	Substituted Hydrocarbon		8.09E-05	3.35E-05	7.46E-05
T	Substituted Indole	120-72-9			9.58E-06
T	Substituted Naphthalene	91-20-3	1.89E-05		
T	Substituted Quinoline	91-22-5			1.23E-04
	Trifluralin	1582-09-8	< 1.72E-07	< 1.45E-07	< 3.57E-07
	Total detected		6.23E-04	1.10E-04	1.21E-03
	Total with non-detects		< 6.36E-04	< 1.19E-04	< 1.24E-03

A "0" signifies a value that was blank-corrected to zero or a negative value.

A "T" signifies a Tentatively Identified Compound (TIC). A corresponding blank space means that the compound was not detected in that sample.

Table J.1 - 3. Hot Air Oven Cure
Speciated Volatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 µg/m³	Cmpd. #8 µg/m³	Cmpd. #22 µg/m³
	1,1,1-Trichloroethane	00071-55-6	6.9	< 40.0	< 20.0
	1,1,2,2-Tetrachloroethane	00079-34-5	< 8.0	< 40.0	< 20.0
	1,1,2-Trichloroethane	00079-00-5	< 8.0	< 40.0	< 20.0
	1,1-Dichloroethane	00075-34-3	< 8.0	< 40.0	< 20.0
	1,1-Dichloroethene	00075-35-4	< 8.0	< 40.0	< 20.0
O	1,2,4-Trimethylbenzene	00095-63-6	< 10.9	19.7	< 5.5
	1,2-Dibromoethane	00106-93-4	< 8.0	< 40.0	< 20.0
	1,2-Dibromo-3-Chloropropane	00096-12-8	< 16.0	< 80.0	< 40.0
	1,2-Dichlorobenzene	00095-50-1	< 8.0	< 40.0	< 20.0
	1,2-Dichloroethane	00107-06-2	< 8.0	< 40.0	< 20.0
	1,2-Dichloropropane	00078-87-5	< 8.0	< 40.0	< 20.0
O	1,3,5-Trimethylbenzene	00108-67-8	< 10.9	109.2	< 6.6
O	1,3-Butadiene	00106-99-0	< 2.2	11.6	< 1.1
	1,3-Dichlorobenzene	00541-73-1	< 8.0	< 40.0	< 20.0
	1,4-Dichlorobenzene	00106-46-7	< 8.0	< 40.0	< 20.0
O	1,4-Diethylbenzene	00105-05-5	< 11.0	< 11.0	< 1.1
	1,4-Dioxane	00123-91-1	< 32.0	< 160.0	< 80.0
T	1-Butanol	00071-36-3		500	
O	1-Butene	00106-98-9	52.2	< 2.3	< 1.1
O	1-Heptene	00592-76-7	5.4	< 6.9	< 1.1
O	1-Hexene	00592-41-6	< 2.3	< 2.3	< 1.1
T	1-Methoxy-Cumene			300	
O	1-Octene	111-66-0	< 2.3	< 2.3	< 1.1
O	1-Pentene	00109-67-1	< 2.3	< 2.3	4.0
O	2,2-Dimethylbutane	00075-83-2	5.5	5.2	< 1.2
O	2,2-Dimethylpropane	00463-82-1	< 2.4	< 2.4	< 1.2
O	2,3,4-Trimethylpentane	00565-75-3	< 2.3	5.2	19.9
O	2,3-Dimethylbutane	00079-29-8	< 2.3	4.5	1.5
O	2,3-Dimethylpentane	00565-59-3	8.8	< 2.3	< 1.2
O	2,4-Dimethylhexane	00589-43-5	< 2.3	< 2.3	< 1.2
	2-Butanone	00078-93-3	10.0	< 80.0	< 40.0
T	2-Ethyl Hexanal	00123-05-7		300	
T	2-Ethyl-1-Hexanol	00104-76-7		3000	80
	2-Hexanone	00591-78-6	< 8.0	< 40.0	< 20.0
O	2-Methylheptane	00592-27-8	3.6	10.5	< 1.2
O	2-Methylhexane	00591-76-4	< 2.3	4.2	2.4
O	2-Methylpentane	00107-83-5	27.0	8.2	82.2
O	2-Methyl-1-Butene	00563-46-2	< 2.3	7.5	5.6
O	2-Methyl-2-Butene	00513-35-9	21.8	166.4	13.8
O	2-Methyl-2-Pentene	00625-27-4	< 2.3	< 2.3	< 1.1
T	2-Methyl-2-Propenal		60		
O	3-Methylhexane	00589-34-4	19.3	2.6	< 1.2
O	3-Methylpentane	00096-14-0	3.3	4.6	1.6
O	4-Methyl-1-Pentene	00691-37-2	< 2.3	< 2.3	< 1.1
	4-Methyl-2-pentanone	00108-10-1	< 8.0	< 40.0	< 20.0
	Acetone	00067-64-1	79.0	140.0	74.0
	Acetonitrile	75-05-8	3.9	< 80.0	< 40.0
T	Acetophenone	00098-86-2		2000	50
O	Acetylene	00074-86-2	< 2.1	< 2.1	< 1.1
	Acrolein	00107-02-8	4.9	< 80.0	32.0
	Acrylonitrile	00107-13-1	< 16.0	< 80.0	< 40.0
	Allyl Chloride	00107-05-1	< 16.0	< 80.0	< 40.0
T	Alpha-Methylstyrene	00098-83-9		600	
O	a-Pinene	1330-16-1	< 2.2	2.7	< 1.1
T	Benzaldehyde	00100-52-7			60
O	Benzene	00071-43-2	9.1	457.9	13.8
	Benzyl Chloride	00100-44-7	< 16.0	< 80.0	< 40.0
	Bromodichloromethane	00075-27-4	< 8.0	< 40.0	< 20.0
	Bromoform	00075-25-2	< 8.0	< 40.0	< 20.0
	Bromomethane	00074-83-9	< 8.0	< 40.0	< 20.0
T	Butanal	00123-72-8			100
T	Butyl Propionate	00590-01-2		1000	
O	b-Pinene	127-91-3	< 11.1	13.9	< 1.1
	Carbon Disulfide	00075-15-0	9.9	4400.0	4100.0
	Carbon Tetrachloride	00056-23-5	< 8.0	< 40.0	< 20.0
	Chlorobenzene	00108-90-7	< 8.0	< 40.0	< 20.0
	Chloroethane	00075-00-3	< 8.0	< 40.0	< 20.0
	Chloroform	00067-66-3	< 8.0	< 40.0	< 20.0
	Chloromethane	00074-87-3	2.6	< 40.0	< 20.0
	cis-1,2-Dichloroethene	00156-59-2	< 8.0	< 40.0	< 20.0
	cis-1,3-Dichloropropene	10061-01-5	< 8.0	< 40.0	< 20.0
O	cis-2-Butene	00590-18-1	< 2.3	3.8	< 1.1
O	cis-2-Hexene	00592-43-8	< 2.3	< 2.3	< 1.1
O	cis-2-Pentene	00627-20-3	< 2.3	< 2.3	137.7
O	Cumene	00098-82-8	< 2.2	< 2.2	< 1.1

Table J.1 - 3. Hot Air Oven Cure
Speciated Volatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 µg/m³	Cmpd. #8 µg/m³	Cmpd. #22 µg/m³
O	Cyclohexane	00110-82-7	15.5	< 2.3	2.1
T	Cyclohexanone	00108-94-1			200
T	Cyclohexyl Isothiocyanate	01122-82-3		800	
O	Cyclopentane	00287-92-3	< 2.3	< 2.3	< 1.1
O	Cyclopentene	00142-29-0	34.5	6.1	< 1.1
T	$C_{11}H_{24}$ Branched Alkene		60		
	Dibromochloromethane	00124-48-1	< 8.0	< 40.0	< 20.0
	Dichlorodifluoromethane	00075-71-8	3.5	< 40.0	< 20.0
T	Dimethyl Cyclopentane Isomer		10		
O	d-Limonene	05989-27-5	< 11.1	< 11.1	< 1.1
	Epichlorohydrin	00106-89-8	< 16.0	< 80.0	< 40.0
O	Ethane	00074-84-0	20.3	12.3	20.9
O	Ethylacetylene	00107-00-6	< 2.2	31.5	< 1.1
O	Ethylbenzene	00100-41-4	< 2.2	< 2.2	< 1.1
O	Ethylene	00074-85-1	< 2.3	< 2.3	< 1.1
	Hexachloro-1,3-butadiene	00087-68-3	< 16.0	< 80.0	< 40.0
O	Isobutane	00075-28-5	3.3	< 2.4	8.3
T	Isobutene	00115-11-7	30		
O	Isobutylene	00115-11-7	< 2.3	< 2.3	8.0
O	Isooctane	00540-84-1	11.1	< 2.3	< 1.2
O	Isopentane	00078-78-4	32.5	6.5	64.9
O	Isoprene	00078-79-5	< 2.2	5.6	< 1.1
T	Methyl Cyclohexane	00108-87-2	10		
T	Methyl Cyclopentane	00096-37-7	10		
T	Methyl Vinyl Ketone	00078-94-4	40		
O	Methylacetylene	00074-99-7	12.2	< 2.1	2.9
O	Methylcyclohexane	00108-87-2	12.0	11.5	< 1.1
O	Methylcyclopentane	00096-37-7	12.0	8.0	< 1.1
	Methylene Chloride	00075-09-2	160.0	550.0	1100.0
O	m-Ethyltoluene	00620-14-4	< 2.2	6.6	< 1.1
O	m-Xylene	00108-38-3	< 2.2	12.5	< 1.1
T	Naphthalene	00091-20-3	20		
O	n-Butane	00106-97-8	29.1	594.3	7.7
O	n-Butylbenzene	00104-51-8	< 11.0	< 11.0	< 1.1
O	n-Decane	00124-18-5	< 11.6	< 11.6	< 1.2
O	n-Heptane	00142-82-5	10.0	6.4	< 1.2
O	n-Hexane	00110-54-3	24.1	29.4	23.5
O	n-Nonane	00111-84-2	< 2.3	< 2.3	< 1.2
O	n-Octane	00111-65-9	4.5	5.7	< 1.2
O	n-Pentane	00109-66-0	5.9	< 2.4	7.7
O	n-Propylbenzene	00103-65-1	< 2.2	2.8	< 1.1
O	o-Ethyltoluene	00611-14-3	< 10.9	14.7	< 1.1
O	o-Xylene	00095-47-6	3.4	461.4	< 1.1
O	Propane	00074-98-6	7.2	18.6	7.8
O	Propylene	00115-07-1	4.0	4.5	2.3
	Propylene Oxide	00075-56-9	< 16.0	< 80.0	< 40.0
O	p-Cymene	00099-87-6	< 11.0	< 11.0	< 1.1
O	p-Ethyltoluene	00622-96-8	< 2.2	< 2.2	< 1.1
O	p-Xylene	00106-42-3	11.9	27.7	86.8
O	Styrene	00100-42-5	5.3	4.0	1.5
	Tetrachloroethene	00127-18-4	< 8.0	< 40.0	< 20.0
	Toluene	00108-88-3	17.0	41.0	18.0
	trans-1,2-Dichloroethene	00156-60-5	< 8.0	< 40.0	< 20.0
	trans-1,3-Dichloropropene	10061-02-6	< 8.0	< 40.0	< 20.0
O	trans-2-Butene	00624-64-6	< 2.3	< 2.3	< 1.1
O	trans-2-Hexene	00592-43-8	< 2.3	< 2.3	< 1.1
O	trans-2-Pentene	00646-04-8	< 2.3	< 2.3	< 1.1
	Trichloroethene	00079-01-6	< 8.0	< 40.0	< 20.0
	Trichlorofluoromethane	00075-69-4	4.6	< 40.0	< 20.0
	Trichlorotrifluoroethane	00076-13-1	< 8.0	< 40.0	< 20.0
	t-Butyl Methyl Ether	01634-04-4	< 16.0	< 80.0	< 40.0
	Vinyl Acetate	00108-05-4	< 8.0	< 40.0	< 20.0
	Vinyl Chloride	00075-01-4	< 8.0	< 40.0	< 20.0
	Total detected		957.2	15,738.9	6,341.1
	Total with non-detects		< 1,521.4	< 18,223.1	< 7,544.0

A "T" signifies a Tentatively Identified Compound (TIC). A corresponding blank space means that the compound was not detected in that sample.

An "O" signifies an Ozone Precursor compound.

Table J.1 - 3. Hot Air Oven Cure
Speciated Volatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 lbs/hr	Cmpd. #8 lbs/hr	Cmpd. #22 lbs/hr
	1,1,1-Trichloroethane	00071-55-6	9.56E-07	< 5.54E-06	< 2.77E-06
	1,1,2,2-Tetrachloroethane	00079-34-5	< 1.11E-06	< 5.54E-06	< 2.77E-06
	1,1,2-Trichloroethane	00079-00-5	< 1.11E-06	< 5.54E-06	< 2.77E-06
	1,1-Dichloroethane	00075-34-3	< 1.11E-06	< 5.54E-06	< 2.77E-06
	1,1-Dichloroethene	00075-35-4	< 1.11E-06	< 5.54E-06	< 2.77E-06
O	1,2,4-Trimethylbenzene	00095-63-6	< 1.51E-06	2.73E-06	< 7.57E-07
	1,2-Dibromoethane	00106-93-4	< 1.11E-06	< 5.54E-06	< 2.77E-06
	1,2-Dibromo-3-Chloropropane	00096-12-8	< 2.22E-06	< 1.11E-05	< 5.54E-06
	1,2-Dichlorobenzene	00095-50-1	< 1.11E-06	< 5.54E-06	< 2.77E-06
	1,2-Dichloroethane	00107-06-2	< 1.11E-06	< 5.54E-06	< 2.77E-06
	1,2-Dichloropropane	00078-87-5	< 1.11E-06	< 5.54E-06	< 2.77E-06
O	1,3,5-Trimethylbenzene	00108-67-8	< 1.51E-06	1.51E-05	< 9.08E-07
O	1,3-Butadiene	00106-99-0	< 3.07E-07	1.61E-06	< 1.53E-07
	1,3-Dichlorobenzene	00541-73-1	< 1.11E-06	< 5.54E-06	< 2.77E-06
	1,4-Dichlorobenzene	00106-46-7	< 1.11E-06	< 5.54E-06	< 2.77E-06
O	1,4-Diethylbenzene	00105-05-5	< 1.52E-06	< 1.52E-06	< 1.52E-07
	1,4-Dioxane	00123-91-1	< 4.44E-06	< 2.22E-05	< 1.11E-05
T	1-Butanol	00071-38-3		6.93E-05	
O	1-Butene	00106-98-9	7.24E-06	< 3.18E-07	< 1.59E-07
O	1-Heptene	00592-76-7	7.47E-07	< 9.54E-07	< 1.59E-07
O	1-Hexene	00592-41-6	< 3.18E-07	< 3.18E-07	< 1.59E-07
T	1-Methoxy-Cumene			4.16E-05	
O	1-Octene	111-60-0	< 3.18E-07	< 3.18E-07	< 1.59E-07
O	1-Pentene	00109-67-1	< 3.18E-07	< 3.18E-07	5.49E-07
O	2,2-Dimethylbutane	00075-83-2	7.65E-07	7.25E-07	< 1.63E-07
O	2,2-Dimethylpropane	00463-82-1	< 3.27E-07	< 3.27E-07	< 1.64E-07
O	2,3,4-Trimethylpentane	00565-75-3	< 3.24E-07	7.20E-07	2.75E-06
O	2,3-Dimethylbutane	00079-29-8	< 3.26E-07	6.27E-07	2.04E-07
O	2,3-Dimethylpentane	00565-59-3	1.22E-06	< 3.25E-07	< 1.62E-07
O	2,4-Dimethylhexane	00589-43-5	< 3.24E-07	< 3.24E-07	< 1.62E-07
	2-Butanone	00078-93-3	1.39E-06	< 1.11E-05	< 5.54E-06
T	2-Ethyl Hexanal	00123-05-7		4.16E-05	
T	2-Ethyl-1-Hexanol	00104-76-7		4.16E-04	1.11E-05
	2-Hexanone	00591-78-6	< 1.11E-06	< 5.54E-06	< 2.77E-06
O	2-Methylheptane	00592-27-8	5.02E-07	1.46E-06	< 1.62E-07
O	2-Methylhexane	00591-76-4	< 3.25E-07	5.76E-07	3.33E-07
O	2-Methylpentane	00107-83-5	3.75E-06	1.14E-06	1.14E-05
O	2-Methyl-1-Butene	00563-46-2	< 3.18E-07	1.03E-06	7.79E-07
O	2-Methyl-2-Butene	00513-35-9	3.02E-06	2.31E-05	1.91E-06
O	2-Methyl-2-Pentene	00625-27-4	< 3.18E-07	< 3.18E-07	< 1.59E-07
T	2-Methyl-2-Propenal		8.32E-06		
O	3-Methylhexane	00589-34-4	2.68E-06	3.57E-07	< 1.62E-07
O	3-Methylpentane	00096-14-0	4.64E-07	6.35E-07	2.28E-07
O	4-Methyl-1-Pentene	00691-37-2	< 3.18E-07	< 3.18E-07	< 1.59E-07
	4-Methyl-2-pentanone	00108-10-1	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Acetone	00067-64-1	1.09E-05	1.94E-05	1.03E-05
	Acetonitrile	75-05-8	5.41E-07	< 1.11E-05	< 5.54E-06
T	Acetophenone	00098-86-2		2.77E-04	6.93E-06
O	Acetylene	00074-86-2	< 2.95E-07	< 2.95E-07	< 1.48E-07
	Acrolein	00107-02-8	6.79E-07	< 1.11E-05	4.44E-06
	Acrylonitrile	00107-13-1	< 2.22E-06	< 1.11E-05	< 5.54E-06
	Allyl Chloride	00107-05-1	< 2.22E-06	< 1.11E-05	< 5.54E-06
T	Alpha-Methylstyrene	00098-83-9		8.32E-05	
O	a-Pinene	1330-16-1	< 3.09E-07	3.71E-07	< 1.54E-07
T	Benzaldehyde	00100-52-7			8.32E-06
O	Benzene	00071-43-2	1.25E-06	6.35E-05	1.92E-06
	Benzyl Chloride	00100-44-7	< 2.22E-06	< 1.11E-05	< 5.54E-06
	Bromodichloromethane	00075-27-4	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Bromoform	00075-25-2	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Bromomethane	00074-83-9	< 1.11E-06	< 5.54E-06	< 2.77E-06
T	Butanal	00123-72-8			1.39E-05
T	Butyl Propionate	00590-01-2		1.39E-04	
O	b-Pinene	127-91-3	< 1.54E-06	1.93E-06	< 1.54E-07
	Carbon Disulfide	00075-15-0	1.37E-06	6.10E-04	5.68E-04
	Carbon Tetrachloride	00056-23-5	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Chlorobenzene	00108-90-7	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Chloroethane	00075-00-3	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Chloroform	00067-66-3	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Chloromethane	00074-87-3	3.60E-07	< 5.54E-06	< 2.77E-06
	cis-1,2-Dichloroethene	00156-59-2	< 1.11E-06	< 5.54E-06	< 2.77E-06
	cis-1,3-Dichloropropene	10061-01-5	< 1.11E-06	< 5.54E-06	< 2.77E-06
O	cis-2-Butene	00590-18-1	< 3.18E-07	5.33E-07	< 1.59E-07
O	cis-2-Hexene	00592-43-8	< 3.18E-07	< 3.18E-07	< 1.59E-07
O	cis-2-Pentene	00627-20-3	< 3.18E-07	< 3.18E-07	1.91E-05
O	Cumene	00098-82-8	< 3.03E-07	< 3.03E-07	< 1.51E-07

Table J.1 - 3. Hot Air Oven Cure
Speciated Volatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 lbs/hr	Cmpd. #8 lbs/hr	Cmpd. #22 lbs/hr
O	Cyclohexane	00110-82-7	2.15E-06	< 3.18E-07	2.86E-07
T	Cyclohexanone	00108-94-1			2.77E-05
T	Cyclohexyl Isothiocyanate	01122-82-3		1.11E-04	
O	Cyclopentane	00287-92-3	< 3.18E-07	< 3.18E-07	< 1.59E-07
O	Cyclopentene	00142-29-0	4.79E-06	8.50E-07	< 1.54E-07
T	$C_{11}H_{24}$ Branched Alkene		8.32E-06		
	Dibromochloromethane	00124-48-1	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Dichlorodifluoromethane	00075-71-8	4.85E-07	< 5.54E-06	< 2.77E-06
T	Dimethyl Cyclopentane Isomer		1.39E-06		
O	d-Limonene	05989-27-5	< 1.54E-06	< 1.54E-06	< 1.54E-07
	Epichlorohydrin	00106-89-8	< 2.22E-06	< 1.11E-05	< 5.54E-06
O	Ethane	00074-84-0	2.81E-06	1.70E-06	2.90E-06
O	Ethylacetylene	00107-00-6	< 3.07E-07	4.37E-06	< 1.53E-07
O	Ethylbenzene	00100-41-4	< 3.01E-07	< 3.01E-07	< 1.50E-07
O	Ethylene	00074-85-1	< 3.18E-07	< 3.18E-07	< 1.59E-07
	Hexachloro-1,3-butadiene	00087-68-3	< 2.22E-06	< 1.11E-05	< 5.54E-06
O	Isobutane	00075-28-5	4.53E-07	< 3.29E-07	1.15E-06
T	Isobutene	00115-11-7	4.16E-06		
O	Isobutylene	00115-11-7	< 3.18E-07	< 3.18E-07	1.11E-06
O	Isooctane	00540-84-1	1.54E-06	< 3.24E-07	< 1.62E-07
O	Isopentane	00078-78-4	4.50E-06	9.00E-07	9.00E-06
O	Isoprene	00078-79-5	< 3.09E-07	7.72E-07	< 1.54E-07
T	Methyl Cyclohexane	00108-87-2	1.39E-06		
T	Methyl Cyclopentane	00096-37-7	1.39E-06		
T	Methyl Vinyl Ketone	00078-94-4	5.54E-06		
O	Methylacetylene	00074-99-7	1.70E-06	< 2.95E-07	4.06E-07
O	Methylcyclohexane	00108-87-2	1.67E-06	1.59E-06	< 1.59E-07
O	Methylcyclopentane	00096-37-7	1.67E-06	1.11E-06	< 1.59E-07
	Methylene Chloride	00075-09-2	2.22E-05	7.62E-05	1.52E-04
O	m-Ethyltoluene	00620-14-4	< 3.03E-07	9.08E-07	< 1.51E-07
O	m-Xylene	00108-38-3	< 3.01E-07	1.73E-06	< 1.50E-07
T	Naphthalene	00091-20-3	2.77E-06		
O	n-Butane	00106-97-8	4.04E-06	8.24E-05	1.07E-06
O	n-Butylbenzene	00104-51-8	< 1.52E-06	< 1.52E-06	< 1.52E-07
O	n-Decane	00124-18-5	< 1.61E-06	< 1.61E-06	< 1.61E-07
O	n-Heptane	00142-82-5	1.38E-06	8.93E-07	< 1.62E-07
O	n-Hexane	00110-54-3	3.34E-06	4.07E-06	3.26E-06
O	n-Nonane	00111-84-2	< 3.23E-07	< 3.23E-07	< 1.62E-07
O	n-Octane	00111-65-9	6.23E-07	7.85E-07	< 1.62E-07
O	n-Pentane	00109-66-0	8.18E-07	< 3.27E-07	1.06E-06
O	n-Propylbenzene	00103-65-1	< 3.03E-07	3.94E-07	< 1.51E-07
O	o-Ethyltoluene	00611-14-3	< 1.51E-06	2.04E-06	< 1.51E-07
O	o-Xylene	00095-47-6	4.66E-07	6.39E-05	< 1.50E-07
O	Propane	00074-98-6	1.00E-06	2.58E-06	1.08E-06
O	Propylene	00115-07-1	5.49E-07	6.28E-07	3.18E-07
	Propylene Oxide	00075-56-9	< 2.22E-06	< 1.11E-05	< 5.54E-06
O	p-Cymene	00099-87-6	< 1.52E-06	< 1.52E-06	< 1.52E-07
O	p-Ethyltoluene	00622-96-8	< 3.03E-07	< 3.03E-07	< 1.51E-07
O	p-Xylene	00106-42-3	1.66E-06	3.84E-06	1.20E-05
O	Styrene	00100-42-5	7.38E-07	5.54E-07	2.14E-07
	Tetrachloroethene	00127-18-4	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Toluene	00108-88-3	2.36E-06	5.68E-06	2.49E-06
	trans-1,2-Dichloroethene	00156-60-5	< 1.11E-06	< 5.54E-06	< 2.77E-06
	trans-1,3-Dichloropropene	10061-02-6	< 1.11E-06	< 5.54E-06	< 2.77E-06
O	trans-2-Butene	00624-64-6	< 3.18E-07	< 3.18E-07	< 1.59E-07
O	trans-2-Hexene	00592-43-8	< 3.18E-07	< 3.18E-07	< 1.59E-07
O	trans-2-Pentene	00646-04-8	< 3.18E-07	< 3.18E-07	< 1.59E-07
	Trichloroethene	00079-01-6	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Trichlorofluoromethane	00075-69-4	6.38E-07	< 5.54E-06	< 2.77E-06
	Trichlorotrifluoroethane	00076-13-1	< 1.11E-06	< 5.54E-06	< 2.77E-06
	t-Butyl Methyl Ether	01634-04-4	< 2.22E-06	< 1.11E-05	< 5.54E-06
	Vinyl Acetate	00108-05-4	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Vinyl Chloride	00075-01-4	< 1.11E-06	< 5.54E-06	< 2.77E-06
	Total detected		1.33E-04	2.18E-03	8.36E-04
	Total with non-detects		< 2.11E-04	< 2.53E-03	< 1.05E-03

A "T" signifies a Tentatively Identified Compound (TIC). A corresponding blank space means that the compound was not detected in that sample.

An "O" signifies an Ozone Precursor compound.

Table J.1 - 3. Hot Air Oven Cure
Speciated Volatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 lb/lb rubber	Cmpd. #8 lb/lb rubber	Cmpd. #22 lb/lb rubber
	1,1,1-Trichloroethane	00071-55-6	1.12E-06	< 4.26E-06	< 5.84E-06
	1,1,2,2-Tetrachloroethane	00079-34-5	< 1.29E-06	< 4.26E-06	< 5.84E-06
	1,1,2-Trichloroethane	00079-00-5	< 1.29E-06	< 4.26E-06	< 5.84E-06
	1,1-Dichloroethane	00075-34-3	< 1.29E-06	< 4.26E-06	< 5.84E-06
	1,1-Dichloroethene	00075-35-4	< 1.29E-06	< 4.26E-06	< 5.84E-06
O	1,2,4-Trimethylbenzene	00095-63-6	< 1.77E-06	2.09E-06	< 1.59E-06
	1,2-Dibromoethane	00106-93-4	< 1.29E-06	< 4.26E-06	< 5.84E-06
	1,2-Dibromo-3-Chloropropane	00096-12-8	< 2.59E-06	< 8.52E-06	< 1.17E-05
	1,2-Dichlorobenzene	00095-50-1	< 1.29E-06	< 4.26E-06	< 5.84E-06
	1,2-Dichloroethane	00107-06-2	< 1.29E-06	< 4.26E-06	< 5.84E-06
	1,2-Dichloropropane	00078-87-5	< 1.29E-06	< 4.26E-06	< 5.84E-06
O	1,3,5-Trimethylbenzene	00108-67-8	< 1.77E-06	1.16E-05	< 1.91E-06
O	1,3-Butadiene	00106-99-0	< 3.58E-07	1.24E-06	< 3.23E-07
	1,3-Dichlorobenzene	00541-73-1	< 1.29E-06	< 4.26E-06	< 5.84E-06
	1,4-Dichlorobenzene	00106-46-7	< 1.29E-06	< 4.26E-06	< 5.84E-06
O	1,4-Diethylbenzene	00105-05-5	< 1.78E-06	< 1.17E-06	< 3.20E-07
	1,4-Dioxane	00123-91-1	< 5.18E-06	< 1.70E-05	< 2.33E-05
T	1-Butanol	00071-36-3		5.33E-05	
O	1-Butene	00106-98-9	8.44E-06	< 2.44E-07	< 3.35E-07
O	1-Heptene	00592-76-7	8.72E-07	< 7.33E-07	< 3.35E-07
O	1-Hexene	00592-41-6	< 3.71E-07	< 2.44E-07	< 3.35E-07
T	1-Methoxy-Cumene			3.20E-05	
O	1-Octene	111-66-0	< 3.71E-07	< 2.44E-07	< 3.35E-07
O	1-Pentene	00109-67-1	< 3.71E-07	< 2.44E-07	1.16E-06
O	2,2-Dimethylbutane	00075-83-2	8.93E-07	5.57E-07	< 3.43E-07
O	2,2-Dimethylpropane	00463-82-1	< 3.82E-07	< 2.52E-07	< 3.44E-07
O	2,3,4-Trimethylpentane	00565-75-3	< 3.78E-07	5.54E-07	5.79E-06
O	2,3-Dimethylbutane	00079-29-8	< 3.80E-07	4.82E-07	4.29E-07
O	2,3-Dimethylpentane	00565-59-3	1.42E-06	< 2.49E-07	< 3.42E-07
O	2,4-Dimethylhexane	00589-43-5	< 3.78E-07	< 2.49E-07	< 3.41E-07
	2-Butanone	00078-93-3	1.62E-06	< 8.52E-06	< 1.17E-05
T	2-Ethyl Hexanal	00123-05-7		3.20E-05	
T	2-Ethyl-1-Hexanol	00104-76-7		3.20E-04	2.33E-05
	2-Hexanone	00591-78-6	< 1.29E-06	< 4.26E-06	< 5.84E-06
O	2-Methylheptane	00592-27-8	5.86E-07	1.12E-06	< 3.41E-07
O	2-Methylhexane	00591-76-4	< 3.79E-07	4.43E-07	7.00E-07
O	2-Methylpentane	00107-83-5	4.37E-06	8.76E-07	2.40E-05
O	2-Methyl-1-Butene	00563-46-2	< 3.71E-07	7.95E-07	1.64E-06
O	2-Methyl-2-Butene	00513-35-9	3.53E-06	1.77E-05	4.02E-06
O	2-Methyl-2-Pentene	00625-27-4	< 3.71E-07	< 2.44E-07	< 3.35E-07
T	2-Methyl-2-Propenal		9.70E-06		
O	3-Methylhexane	00589-34-4	3.12E-06	2.74E-07	< 3.42E-07
O	3-Methylpentane	00096-14-0	5.42E-07	4.88E-07	4.80E-07
O	4-Methyl-1-Pentene	00691-37-2	< 3.71E-07	< 2.44E-07	< 3.35E-07
	4-Methyl-2-pentanone	00108-10-1	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Acetone	00067-64-1	1.28E-05	1.49E-05	2.16E-05
	Acetonitrile	75-05-8	6.31E-07	< 8.52E-06	< 1.17E-05
T	Acetophenone	00098-86-2		2.13E-04	1.46E-05
O	Acetylene	00074-86-2	< 3.44E-07	< 2.27E-07	< 3.11E-07
	Acrolein	00107-02-8	7.92E-07	< 8.52E-06	9.34E-06
	Acrylonitrile	00107-13-1	< 2.59E-06	< 8.52E-06	< 1.17E-05
	Allyl Chloride	00107-05-1	< 2.59E-06	< 8.52E-06	< 1.17E-05
T	Alpha-Methylstyrene	00098-83-9		6.39E-05	
O	a-Pinene	1330-16-1	< 3.60E-07	2.85E-07	< 3.25E-07
T	Benzaldehyde	00100-52-7			1.75E-05
O	Benzene	00071-43-2	1.46E-06	4.88E-05	4.04E-06
	Benzyl Chloride	00100-44-7	< 2.59E-06	< 8.52E-06	< 1.17E-05
	Bromodichloromethane	00075-27-4	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Bromoform	00075-25-2	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Bromomethane	00074-83-9	< 1.29E-06	< 4.26E-06	< 5.84E-06
T	Butanal	00123-72-8			2.92E-05
T	Butyl Propionate	00590-01-2		1.07E-04	
O	b-Pinene	127-91-3	< 1.80E-06	1.48E-06	< 3.25E-07
	Carbon Disulfide	00075-15-0	1.60E-06	4.69E-04	1.20E-03
	Carbon Tetrachloride	00056-23-5	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Chlorobenzene	00108-90-7	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Chloroethane	00075-00-3	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Chloroform	00067-66-3	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Chloromethane	00074-87-3	4.21E-07	< 4.26E-06	< 5.84E-06
	cis-1,2-Dichloroethene	00156-59-2	< 1.29E-06	< 4.26E-06	< 5.84E-06
	cis-1,3-Dichloropropene	10061-01-5	< 1.29E-06	< 4.26E-06	< 5.84E-06
O	cis-2-Butene	00590-18-1	< 3.71E-07	4.10E-07	< 3.35E-07
O	cis-2-Hexene	00592-43-8	< 3.71E-07	< 2.44E-07	< 3.35E-07
O	cis-2-Pentene	00627-20-3	< 3.71E-07	< 2.44E-07	4.02E-05
O	Cumene	00098-82-8	< 3.53E-07	< 2.33E-07	< 3.19E-07

Table J.1 - 3. Hot Air Oven Cure
Speciated Volatiles

	Chemical Compound	CAS Numbers	Cmpd. #5 lb/lb rubber	Cmpd. #8 lb/lb rubber	Cmpd. #22 lb/lb rubber
O	Cyclohexane	00110-82-7	2.51E-06	< 2.44E-07	6.03E-07
T	Cyclohexanone	00108-94-1			5.84E-05
T	Cyclohexyl Isothiocyanate	01122-82-3		8.52E-05	
O	Cyclopentane	00287-92-3	< 3.71E-07	< 2.44E-07	< 3.35E-07
O	Cyclopentene	00142-29-0	5.59E-06	6.53E-07	< 3.25E-07
T	$C_{11}H_{24}$ Branched Alkene		9.70E-06		
	Dibromochloromethane	00124-48-1	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Dichlorodifluoromethane	00075-71-8	5.66E-07	< 4.26E-06	< 5.84E-06
T	Dimethyl Cyclopentane Isomer		1.62E-06		
O	d-Limonene	05989-27-5	< 1.80E-06	< 1.19E-06	< 3.25E-07
	Epichlorohydrin	00106-89-8	< 2.59E-06	< 8.52E-06	< 1.17E-05
O	Ethane	00074-84-0	3.28E-06	1.31E-06	6.10E-06
O	Ethylacetylene	00107-00-6	< 3.58E-07	3.36E-06	< 3.23E-07
O	Ethylbenzene	00100-41-4	< 3.51E-07	< 2.31E-07	< 3.17E-07
O	Ethylene	00074-85-1	< 3.71E-07	< 2.44E-07	< 3.35E-07
	Hexachloro-1,3-butadiene	00087-68-3	< 2.59E-06	< 8.52E-06	< 1.17E-05
O	Isobutane	00075-28-5	5.29E-07	< 2.53E-07	2.43E-06
T	Isobutene	00115-11-7	4.85E-06		
O	Isobutylene	00115-11-7	< 3.71E-07	< 2.44E-07	2.34E-06
O	Isooctane	00540-84-1	1.79E-06	< 2.49E-07	< 3.41E-07
O	Isopentane	00078-78-4	5.25E-06	8.92E-07	1.89E-05
O	Isoprene	00078-79-5	< 3.60E-07	5.94E-07	< 3.25E-07
T	Methyl Cyclohexane	00108-87-2	1.62E-06		
T	Methyl Cyclopentane	00096-37-7	1.62E-06		
T	Methyl Vinyl Ketone	00078-94-4	6.47E-06		
O	Methylacetylene	00074-99-7	1.98E-06	< 2.27E-07	8.55E-07
O	Methylcyclohexane	00108-87-2	1.95E-06	1.22E-06	< 3.35E-07
O	Methylcyclopentane	00096-37-7	1.95E-06	8.56E-07	< 3.35E-07
	Methylene Chloride	00075-09-2	2.59E-05	5.86E-05	3.21E-04
O	m-Ethyltoluene	00620-14-4	< 3.53E-07	6.98E-07	< 3.19E-07
O	m-Xylene	00108-38-3	< 3.51E-07	1.33E-06	< 3.17E-07
T	Naphthalene	00091-20-3	3.23E-06		
O	n-Butane	00106-97-8	4.71E-06	6.33E-05	2.25E-06
O	n-Butylbenzene	00104-51-8	< 1.78E-06	< 1.17E-06	< 3.20E-07
O	n-Decane	00124-18-5	< 1.88E-06	< 1.24E-06	< 3.40E-07
O	n-Heptane	00142-82-5	1.61E-06	6.86E-07	< 3.42E-07
O	n-Hexane	00110-54-3	3.90E-06	3.13E-06	6.86E-06
O	n-Nonane	00111-84-2	< 3.77E-07	< 2.48E-07	< 3.40E-07
O	n-Octane	00111-65-9	7.27E-07	6.04E-07	< 3.41E-07
O	n-Pentane	00109-66-0	9.55E-07	< 2.52E-07	2.24E-06
O	n-Propylbenzene	00103-65-1	< 3.53E-07	3.03E-07	< 3.19E-07
O	o-Ethyltoluene	00611-14-3	< 1.77E-06	1.57E-06	< 3.19E-07
O	o-Xylene	00095-47-6	5.44E-07	4.92E-05	< 3.17E-07
O	Propane	00074-98-6	1.17E-06	1.99E-06	2.28E-06
O	Propylene	00115-07-1	6.40E-07	4.83E-07	6.70E-07
	Propylene Oxide	00075-56-9	< 2.59E-06	< 8.52E-06	< 1.17E-05
O	p-Cymene	00099-87-6	< 1.78E-06	< 1.17E-06	< 3.20E-07
O	p-Ethyltoluene	00622-96-8	< 3.53E-07	< 2.33E-07	< 3.19E-07
O	p-Xylene	00106-42-3	1.93E-06	2.95E-06	2.53E-05
O	Styrene	00100-42-5	8.61E-07	4.25E-07	4.51E-07
	Tetrachloroethene	00127-18-4	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Toluene	00108-88-3	2.75E-06	4.37E-06	5.25E-06
	trans-1,2-Dichloroethene	00156-60-5	< 1.29E-06	< 4.26E-06	< 5.84E-06
	trans-1,3-Dichloropropene	10061-02-6	< 1.29E-06	< 4.26E-06	< 5.84E-06
O	trans-2-Butene	00624-64-6	< 3.71E-07	< 2.44E-07	< 3.35E-07
O	trans-2-Hexene	00592-43-8	< 3.71E-07	< 2.44E-07	< 3.35E-07
O	trans-2-Pentene	00646-04-8	< 3.71E-07	< 2.44E-07	< 3.35E-07
	Trichloroethene	00079-01-6	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Trichlorofluoromethane	00075-69-4	7.44E-07	< 4.26E-06	< 5.84E-06
	Trichlorotrifluoroethane	00076-13-1	< 1.29E-06	< 4.26E-06	< 5.84E-06
	t-Butyl Methyl Ether	01634-04-4	< 2.59E-06	< 8.52E-06	< 1.17E-05
	Vinyl Acetate	00108-05-4	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Vinyl Chloride	00075-01-4	< 1.29E-06	< 4.26E-06	< 5.84E-06
	Total detected		1.55E-04	1.68E-03	1.85E-03
	Total with non-detects		< 2.46E-04	< 1.94E-03	< 2.20E-03

A "T" signifies a Tentatively Identified Compound (TIC). A corresponding blank space means that the compound was not detected in that sample.

An "O" signifies an Ozone Precursor compound.

Table J.1 - 4 Hot Air Oven Cure

Sulfur Summary

Sulfur Compound	CAS Numbers	Cmpd.#5 µg/m³	Cmpd.#8 µg/m³	Cmpd.#22 µg/m³
2,5-Dimethylthiophene	638-02-8	< 37.0	< 370.0	< 180.0
2-Ethylthiophene	872-55-9	< 37.0	< 370.0	< 180.0
3-Methylthiophene	616-44-4	< 32.0	< 320.0	< 160.0
Carbon Disulfide	75-15-0	< 12.0	6,040	5,260
Carbonyl Sulfide	463-58-1	< 20.0	< 200.0	< 98.0
Diethyl Disulfide	110-81-6	< 20.0	< 200.0	< 100.0
Diethyl Sulfide	352-93-2	< 29.0	< 290.0	< 150.0
Dimethyl Disulfide	624-92-0	< 15.0	< 150.0	< 77.0
Dimethyl Sulfide	75-18-3	< 20.0	< 200.0	< 100.0
Ethyl Mercaptan	75-08-1	< 20.0	< 200.0	< 100.0
Ethyl Methyl Sulfide		< 25.0	< 250.0	< 120.0
Isobutyl Mercaptan	513-44-0	< 29.0	< 290.0	< 150.0
Isopropyl Mercaptan	75-33-2	< 25.0	< 250.0	< 120.0
Methyl Mercaptan	74-93-1	< 16.0	< 160.0	< 79.0
n-Butyl Mercaptan	109-79-5	< 29.0	< 290.0	< 150.0
n-Propyl Mercaptan	107-03-9	< 25.0	< 250.0	< 120.0
tert-Butyl Mercaptan	75-66-1	< 29.0	< 290.0	< 150.0
Tetrahydrothiophene	110-01-0	< 29.0	< 290.0	< 140.0
Thiophene	110-02-1	< 28.0	< 280.0	< 140.0
Total detected		0.0	6,040.0	5,260.0
Total w/ non detects		< 477.0	< 10,690.0	< 7,574.0

Table J.1 - 4 Hot Air Oven Cure

Sulfur Summary

Sulfur Compound	CAS Numbers	Cmpd.#5 lbs/hr	Cmpd.#8 lbs/hr	Cmpd.#22 lbs/hr
2,5-Dimethylthiophene	638-02-8	< 5.13E-06	< 5.13E-05	< 2.49E-05
2-Ethylthiophene	872-55-9	< 5.13E-06	< 5.13E-05	< 2.49E-05
3-Methylthiophene	616-44-4	< 4.44E-06	< 4.44E-05	< 2.22E-05
Carbon Disulfide	75-15-0	< 1.66E-06	8.37E-04	7.29E-04
Carbonyl Sulfide	463-58-1	< 2.77E-06	< 2.77E-05	< 1.36E-05
Diethyl Disulfide	110-81-6	< 2.77E-06	< 2.77E-05	< 1.39E-05
Diethyl Sulfide	352-93-2	< 4.02E-06	< 4.02E-05	< 2.08E-05
Dimethyl Disulfide	624-92-0	< 2.08E-06	< 2.08E-05	< 1.07E-05
Dimethyl Sulfide	75-18-3	< 2.77E-06	< 2.77E-05	< 1.39E-05
Ethyl Mercaptan	75-08-1	< 2.77E-06	< 2.77E-05	< 1.39E-05
Ethyl Methyl Sulfide		< 3.47E-06	< 3.47E-05	< 1.66E-05
Isobutyl Mercaptan	513-44-0	< 4.02E-06	< 4.02E-05	< 2.08E-05
Isopropyl Mercaptan	75-33-2	< 3.47E-06	< 3.47E-05	< 1.66E-05
Methyl Mercaptan	74-93-1	< 2.22E-06	< 2.22E-05	< 1.09E-05
n-Butyl Mercaptan	109-79-5	< 4.02E-06	< 4.02E-05	< 2.08E-05
n-Propyl Mercaptan	107-03-9	< 3.47E-06	< 3.47E-05	< 1.66E-05
tert-Butyl Mercaptan	75-66-1	< 4.02E-06	< 4.02E-05	< 2.08E-05
Tetrahydrothiophene	110-01-0	< 4.02E-06	< 4.02E-05	< 1.94E-05
Thiophene	110-02-1	< 3.88E-06	< 3.88E-05	< 1.94E-05
Total detected		0.0	8.37E-04	7.29E-04
Total w/ non detects		< 6.61E-05	< 1.48E-03	< 1.05E-03

Table J.1 - 4 Hot Air Oven Cure

Sulfur Summary

Sulfur Compound	CAS Numbers	Cmpd.#5 lb/lb rubber	Cmpd.#8 lb/lb rubber	Cmpd.#22 lb/lb rubber
2,5-Dimethylthiophene	638-02-8	< 5.98E-06	< 3.94E-05	< 5.25E-05
2-Ethylthiophene	872-55-9	< 5.98E-06	< 3.94E-05	< 5.25E-05
3-Methylthiophene	616-44-4	< 5.18E-06	< 3.41E-05	< 4.67E-05
Carbon Disulfide	75-15-0	< 1.94E-06	6.43E-04	1.53E-03
Carbonyl Sulfide	463-58-1	< 3.23E-06	< 2.13E-05	< 2.86E-05
Diethyl Disulfide	110-81-6	< 3.23E-06	< 2.13E-05	< 2.92E-05
Diethyl Sulfide	352-93-2	< 4.69E-06	< 3.09E-05	< 4.38E-05
Dimethyl Disulfide	624-92-0	< 2.43E-06	< 1.60E-05	< 2.25E-05
Dimethyl Sulfide	75-18-3	< 3.23E-06	< 2.13E-05	< 2.92E-05
Ethyl Mercaptan	75-08-1	< 3.23E-06	< 2.13E-05	< 2.92E-05
Ethyl Methyl Sulfide		< 4.04E-06	< 2.66E-05	< 3.50E-05
Isobutyl Mercaptan	513-44-0	< 4.69E-06	< 3.09E-05	< 4.38E-05
Isopropyl Mercaptan	75-33-2	< 4.04E-06	< 2.66E-05	< 3.50E-05
Methyl Mercaptan	74-93-1	< 2.59E-06	< 1.70E-05	< 2.31E-05
n-Butyl Mercaptan	109-79-5	< 4.69E-06	< 3.09E-05	< 4.38E-05
n-Propyl Mercaptan	107-03-9	< 4.04E-06	< 2.66E-05	< 3.50E-05
tert-Butyl Mercaptan	75-66-1	< 4.69E-06	< 3.09E-05	< 4.38E-05
Tetrahydrothiophene	110-01-0	< 4.69E-06	< 3.09E-05	< 4.09E-05
Thiophene	110-02-1	< 4.53E-06	< 2.98E-05	< 4.09E-05
Total detected		0.0	6.43E-04	1.53E-03
Total w/ non detects		< 7.71E-05	< 1.14E-03	< 2.21E-03

Table J.1 - 5 Hot Air Oven Cure

POM Train Results

	Cmpd.#5	Cmpd.#8	Cmpd.#22
POM (mg)	3.0	7.9	12.5
Sample Volume (dscf)	35.630	35.385	35.496
POM Concentration (mg/m^3)	2.97	7.88	12.43
Flowrate (dscfm)	37	37	37
POM (lb/hr)	4.12E-04	1.09E-03	1.72E-03
Total Rubber Processed (lbs/hr)	0.857	1.301	0.475
POM (lbs/lb rubber)	4.81E-04	8.40E-04	3.63E-03

TRC Project No. 18775

May 1995

DEVELOPMENT OF EMISSION FACTORS FOR THE RUBBER MANUFACTURING INDUSTRY

SUPPLEMENTAL REPORT

FORMALDEHYDE EMISSIONS RESULTS

Prepared for

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FORMALDEHYDE EMISSIONS TEST PROGRAM

Background

Formaldehyde emissions were measured during the platen press curing of two generic rubber compounds, Compound No. 1 (Tire Inner Liner) and Compound No. 7 (Tire Bladder). The platen press was used to simulate processing of the compounds at a temperature of 340° F, typical of non-productive mixing and curing operations. The rubber compounds were uncured formulations mixed on a small Banbury in late 1994 and stored at TRC's Lowell facility since that time.

The platen press curing process is a general approach to pressure-curing engineered rubber products in molds. The platen press was used in this testing to simulate higher temperature conditions for maximum formaldehyde off-gassing. Emissions from the platen presses were controlled using an exhaust hood and duct.

The platen press used in this program was manufactured by Pasadena Hydraulics, Inc. of Pasadena, CA and provided for the test program by the Goodyear Tire and Rubber Company. Testing was conducted at TRC's Lowell, MA facility. Emission rates were developed based on: pounds of pollutant emitted per hour (lbs/hr) and pounds emitted per pound of rubber (lbs/lb rubber) cured.

Sampling Approach

During this program, the platen press was operated at a temperature of 340° F and pressures of 30 tons for the first 3 minutes and 20 tons for the second 3 minutes. Nine samples of approximately 50 grams each were cured for each rubber type. Each 50-gram tab of rubber was placed directly onto the lower plate and pressed into a "pancake" approximately 185 mm in diameter and 1 mm thickness. The cooldown period lasted for 6 minutes when the cured samples were removed from the press and left inside the enclosure. Emissions were contained by an exhaust hood and flexible Tyvek sheeting, and exhausted by a single 5-inch duct and blower.

Sampling was conducted in accordance with Method TO-11 using dinitrophenyl-hydrazine (DNPH)-impregnated silica gel in sampling cartridges. Exhaust gas from the platen press ductwork was drawn through the cartridge at a known rate (200 mL/min.) for a 2-hour period. During this sampling period, nine tabs of the desired rubber compound were pressed. One integrated sampling event was conducted for each rubber compound. A total of 1.04 lbs of rubber was pressed for each integrated sample.

Analytical Summary

Analyses of two field samples and one field blank were conducted in accordance with Method TO-11. Analysis was by HPLC using a Hewlett Packard ODS Hyersil column. The

laboratory also prepared and analyzed sets of Laboratory Spikes and Spike Duplicates and Method Blanks. Lab Spike and Spike Duplicate recoveries were 86 and 82 percent, respectively.

Emissions Results

The results of the emissions testing are shown in Table 1. The formaldehyde concentrations were very low, but detectable. All results were less than the lowest calibrator, so the reported concentrations are estimated based on extrapolation of the standard curve. A comparison of formaldehyde emissions from the two rubber compounds yields very similar results, although Compound No. 1 emissions were slightly higher. Table 2 presents the recipes for these two rubber formulations.

An emission factor for formaldehyde emissions from Compounds 1 and 7 was developed and is reported in Table 1. This factor represents the pounds of formaldehyde emitted for every pound of rubber compound processed in this temperature range. Please note that for any given process, the emission factor user should be aware that there will be differences in formaldehyde release rates depending on the amount of exposed rubber surface area, the process type, and the rubber temperature.

Table 1
Formaldehyde Emission Factors

Compounds 1 and 7

Measurement Parameters	Compound No. 1 Tire Inner Liner	Compound No. 7 Tire Bladder
Platen Press Temperature (°F)	340	340
Run Time (min.)	120	120
Total Rubber (lbs/hour)	0.52	0.52
Volume of Gas collected (L)	23.830	23.984
Flowrate (dscfm)	60.1	60.3
Formaldehyde Sample Value (ug)*	0.103	0..068
Formaldehyde Concentration (ug/m^3)	4.322	2.835
Formaldehyde Emission Rate (lbs/hour)	9.73×10^{-7}	6.40×10^{-7}
Formaldehyde Emission Factor		
Formaldehyde Emission Factor (lbs/lb rubber)	1.88×10^{-6}	1.23×10^{-6}

* Blank Corrected Value.
Formaldehyde values were above the detection limit, but below the lowest calibrator value.

Table 2
Rubber Formulation Recipes

Compounds 1 and 7

Compound #1: Tire Inner Liner (BRIIR/NR)

Recipe:

Brominate IIR X-2	85.00
SMR 20 Natural Rubber	15.00
GPF Black	60.00
Stearic Acid	1.00
Paraffinic Medium Process Oil	15.00
Unreactive Phenol Formaldehyde-type Resin (Arofene 8318, SP1068)	5.00
Zinc Oxide	3.00
Sulfur	.50
MBTS	1.50
	186.00

Number of Passes/Temperatures
1 (NP) Temperature: 320°F Chlorobutyl or 290°F Bromobutyl
2 (P) Temperature: 220°F

Compound #7: Tire Bladder

Recipe:

Butyl 268	100.00
N330	55.00
Castor Oil	5.00
SP 1045 Resin	10.00
Zinc Oxide	5.00
Neoprene W	5.00
	180.00

Number of Passes/Temperatures
NP1 All Butyl, Castor Oil, Zinc Oxide, 45 phr N330, discharge approx. 330°/340°F,
+ Resin, 10 phr N330, discharge approx. 270°/280°F. Do not exceed 290°F.
PROD NP2 = neoprene, discharge approx. 250°/260°F.