51896

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cc: I Kalainen
Stockinger
Fowler
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Robbat

UNITED STATES ENVIRONMENTAL
OFFICE OF RESEARCH AND DEVELOPMENT
ENVIRONMENTAL RESEARCH LABORATORY
SOUTH FERRY ROAD
NARRAGANSETT RHODE ISLAND

NEW BEDFORD
3.4.45
Other 51896

December 19, 1986

SUBJECT: PAH Concentrations in New Bedford Harbor Samples

FROM: Curt Norwood Richard J. Pruell for Curt Norwood
ERL-Narragansett

TO: LeRoy Folmer
CERCLA Enforcement Division

THRU: David J. Hansen Walter J. Berry for David Hansen
ERL-Narragansett

Accompanying this memo is a package of information relating to the polynuclear aromatic hydrocarbon (PAH) concentrations in the New Bedford Harbor (NBH) samples. Samples analyzed include 13 sediment cores from NBH and 7 sets of triplicate samples from the sediments used in toxicity tests. These are the same samples which have been discussed in previous memos dealing with PCB and metal contamination in NBH sediment. Not reported here are the erroneous results for three extracts which went to dryness prior to GC-MS analysis. All values in the tables and figures are in milligrams per kilogram dry weight. (The values in the raw data in Appendices 1 and 2 are listed as nanograms per gram dry weight.).

The following supporting materials are included:

A map showing the sampling locations in NBH.

Table 1 - Sums and molecular weight centroids of measured PAHs in sediment cores from NBH sampling sites.

Table 2 - Sums and molecular weight centroids of measured PAHs from triplicate samples from sediments used in toxicity tests, and the means of those sums and centroids.

Figure 1 - Sums of measured PAHs in NBH sediments.

Figure 2 - PAH molecular weight centroids of NBH sediments.

Figure 3 - Mean normalized PAH distributions for sediments from NBH, reference sediments from Long Island Sound (REFS) and from Black Rock Harbor (BRH).

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Appendix 1 - Plots showing the distribution of PAHs in each sediment.

Appendix 2 - Raw data output for all of the sediments.

Appendix 3 - List of compound names corresponding to the measured PAHs shown in the raw data plots of Figure 3 and Appendix 1, and in the raw data output listings of Appendix 2.

The PAH levels in the fish from the highest exposure level were compared with those for fish from the control exposure. In both sets of fish PAHs were non-detectable (<10 ppb). These non-detectable levels are several orders of magnitude below the levels in even the cleanest sediments in the current study. As was previously agreed, no additional fish samples were analyzed. Blanks similarly showed no appreciable levels of PAHs.

CONCLUSIONS:

- PAH concentrations generally increase with increased distance up the harbor (Table 1 and Figure 1). The concentrations in the sediments below Pope's Island (stations: 2,3,4 and 5) are within a factor of three of those above the island and south of the I-195 bridge (stations: 6,7,8,9 and 10). PAH concentrations in the sediments in the superfund site are an additional two to four times greater than those in the sediments from stations just below the bridge. Overall, the PAH concentrations in the sediment within the harbor vary by about a factor of 10.

- The relative distribution of PAHs, (the amount of low molecular weight (MW) PAHs relative to the amount of higher MW PAHs) is the same throughout the study site. This conclusion is supported by the following:

  1. The individual distribution plots (Appendix 1) are all very similar.

  2. The NBH mean normalized distribution (Figure 3) has small standard deviation, and is different from the other two distributions. The REFS distribution is slightly more skewed towards the higher MW compounds, while the BRH distribution is strongly skewed towards the lower MW compounds and the homologs of the 178s.

  3. The NBH centroids all fall in the same general area of Figure 2. They are all close to the slightly higher REFS centroid, yet considerably above the BRH centroid.

- The NBH distribution shows that the PAHs are primarily of pyrogenic origin, as are those of REFS. In a sediment with substantially more PAHs of petrogenic origin, as in BRH, there is a relative increase in the amounts of the lower MW compounds; as well as a sharp increase in the amounts of the 178 homologs, and a more pronounced increase for the lower MW homologs of the 178 parents.

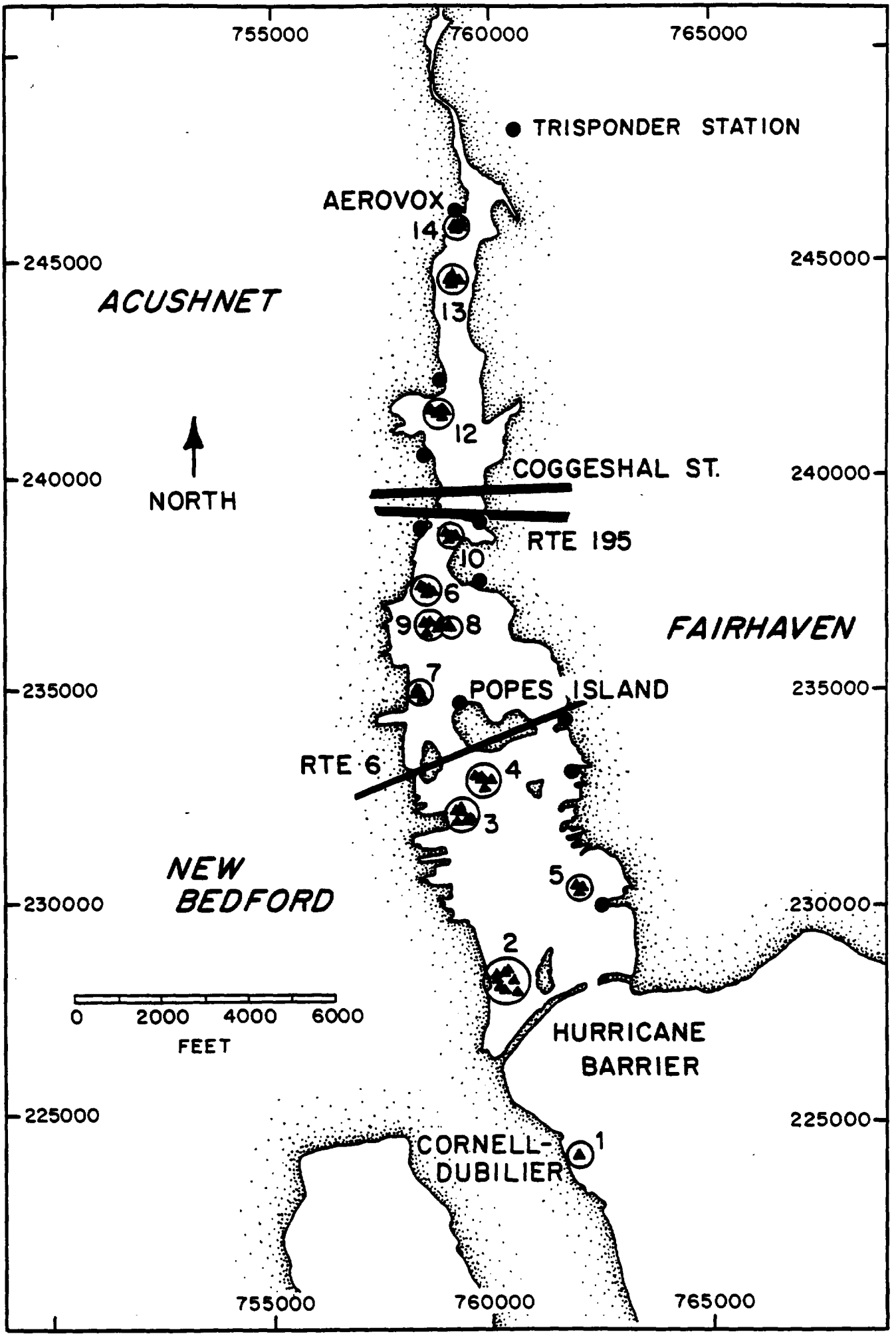
- The amount and distribution of PAHs at NBH is typical of other highly industrialized estuarine environments.

- No PAHs were found in the fish, as was expected, since fish are known to be highly efficient at metabolizing PAHs.

/lml

Attachment

cc: Charles Bering
Frank Ciavatterieri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TRISPONDER STATION
AEROVOX
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ACUSHNET
NORTH
240000
COGGESHAL ST.
RTE 195
10
6
9
8
FAIRHAVEN
7
235000
POPES ISLAND
RTE 6
4
3
NEW
BEDFORD
5
230000
2
0
2000
4000
6000
FEET
HURRICANE
BARRIER
225000
CORNELL-
DUBILIER
1

Table 1: Concentrations of total PAHs (Sum of parent compounds and homologs measured, in mg/kg dry weight), and PAH molecular weight centroids (calculated mean of the molecular weight of the parent PAHs multiplied by the concentration of those PAHs). Values are from single samples from New Bedford Harbor sediment.

STATION	PAH CONCENTRATION (MG/KG)	PAH CENTROID (M.W.)
NBH1	8.7	235.6
NBH2	19	236.5
NBH3	22	237.1
NBH4	20	242.4
NBH5	14	237.3
NBH6	35	239.4
NBH7	33	235.2
NBH8	18	244.4
NBH9	30	239.3
NBH10	26	238.8
NBH12	169	230.2
NBH13	81	238.0
NBH14	125	236.2

Table 2: Concentrations of total PAHs (Sum of parent compounds and homologs measured, in mg/kg dry weight, and PAH molecular weight centroids (calculated mean of the molecular weight of the parent PAHs multiplied by the concentration of those PAHs). Values are from triplicate samples of the sediments from New Bedford Harbor used in toxicity tests.

STATION	PAH CONCENTRATION (MG/KG)		PAH CENTROID (M.W.)	
	SAMPLES	MEANS	SAMPLES	MEANS
SREF	3.5	3.7	241.7	240.8
SREF	4.3		240.0	
SREF	3.2		240.6	
NBH5 *	13	13	239.8	239.8
NBH6	41	38	240.5	240.2
NBH6	36		242.1	
NBH6	36		238.1	
NBH7 **	43	40	237.3	236.7
NBH7	37		236.1	
NBH8	37	35	241.5	242.4
NBH8	35		242.8	
NBH8	34		242.9	
NBH12	120	111	236.1	238.7
NBH12	64		239.5	
NBH12	148		240.5	
NBH14	134	125	235.3	236.5
NBH14	124		236.1	
NBH14	117		238.1	

* Two samples lost in analysis.
** One sample lost in analysis.

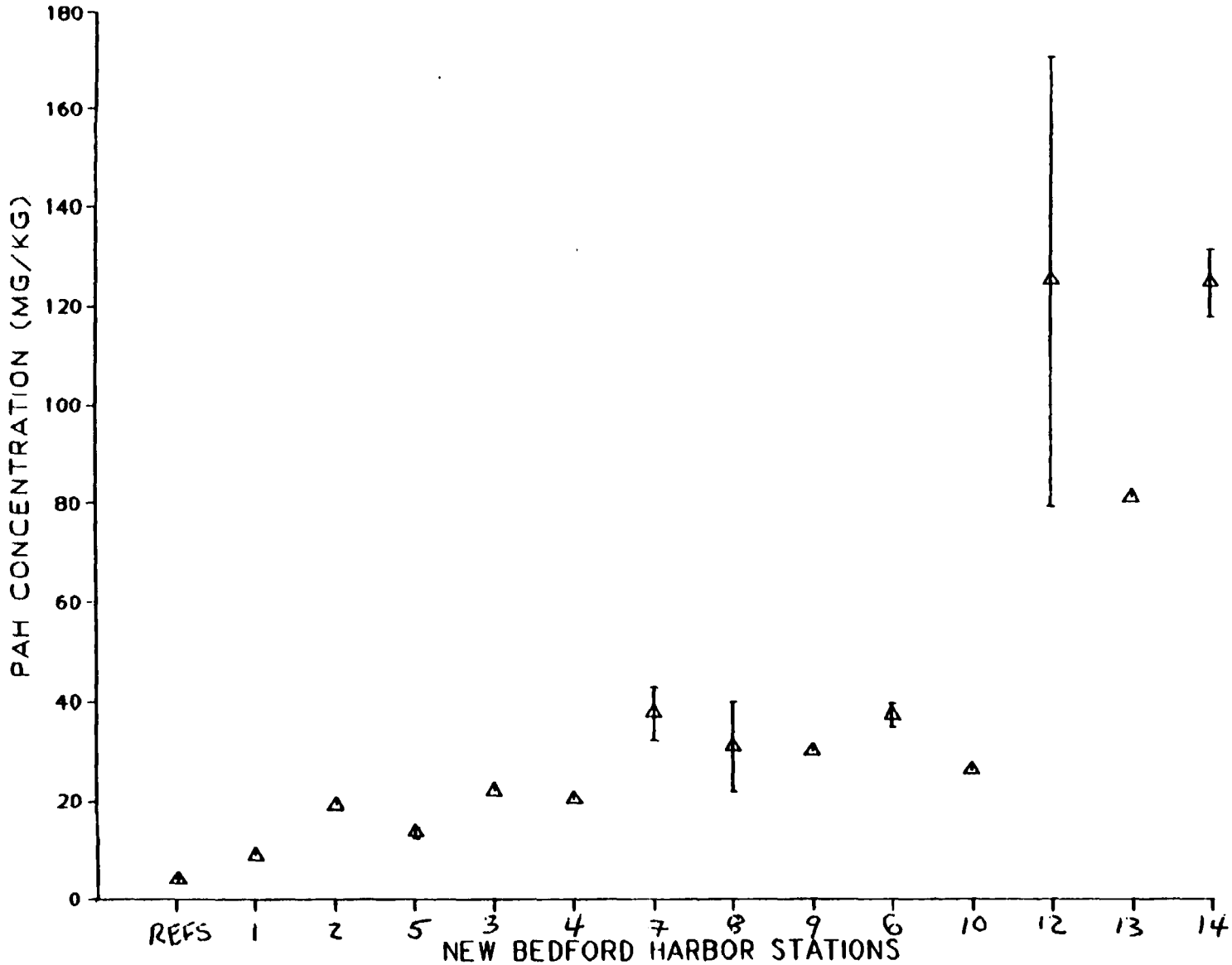


Figure 1: PAH concentration in sediments from New Bedford Harbor. Points represent means of 1-4 samples (core samples from each station and triplicate samples of the sediments used in toxicity tests). Bars represent standard deviations. NBH stations are ordered left-to-right by increasing distance from the Hurricane barrier. Data are from tables 1 and 2 and the appendices.

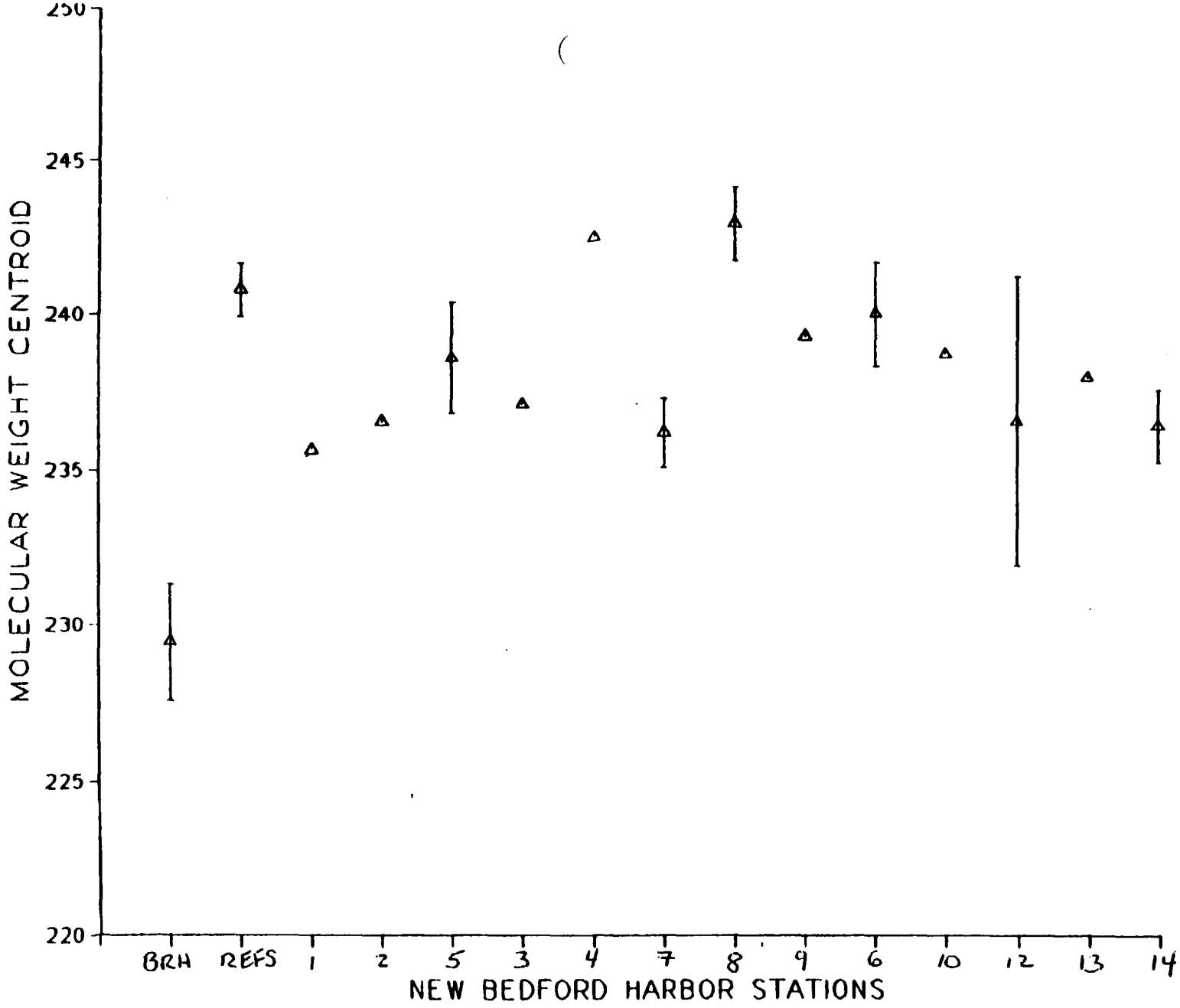


Figure 2: PAH molecular weight centroids of sediments from New Bedford Harbor (NBH) and Central Long Island Sound (REFS) used in toxicity tests. Points represent means of 1-4 samples (core samples from each station and triplicate samples of the sediments used in toxicity tests). Bars represent standard deviations. NBH stations are ordered left-to-right by increasing distance from the hurricane barrier. Data are from tables 1 and 2 and the appendices. Data for 15 sediment samples from Black Rock Harbor (BRH), Ct., are included to illustrate centroid values for sediments with a slightly different mix of PAHs.

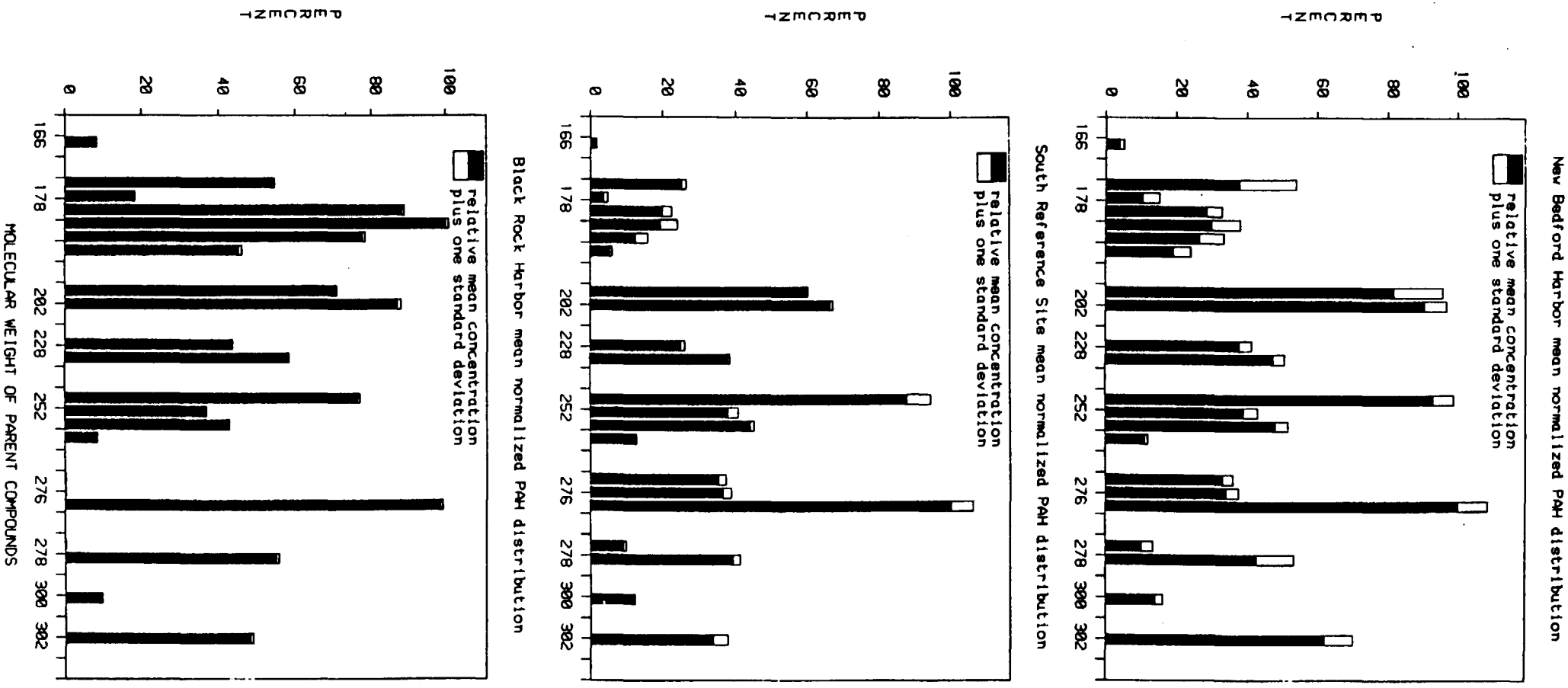
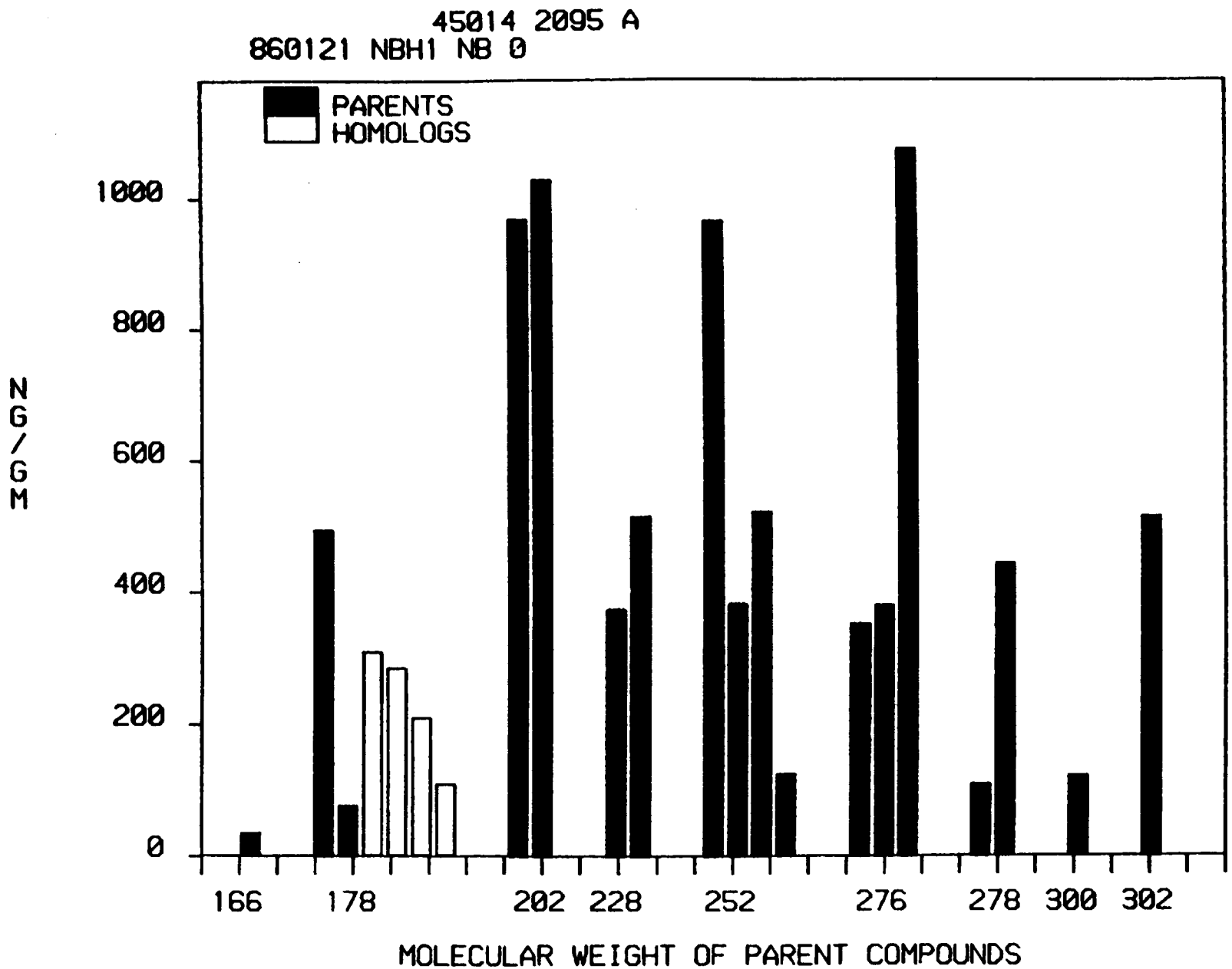


Figure 3: Mean normalized PAH concentrations from sediments from New Bedford Harbor (NBH), Central Long Island Sound (SREF) and Black Rock Harbor (BRH). Data are from 13 core samples from NBH, triplicate samples of the sediments from REFS that were used in toxicity tests, and 15 samples from a barrel of sediment from BRH. The concentrations of individual PAHs in each sample were normalized by dividing them by the total PAH concentration in that sample. Then the mean and standard deviation was calculated for each PAH from each location. Mean concentrations for each PAH were plotted as percent values of the highest peak in each mean distribution.

NBH1 - CORE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PARENTS
HOMOLOGS
NG/GM
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800
600
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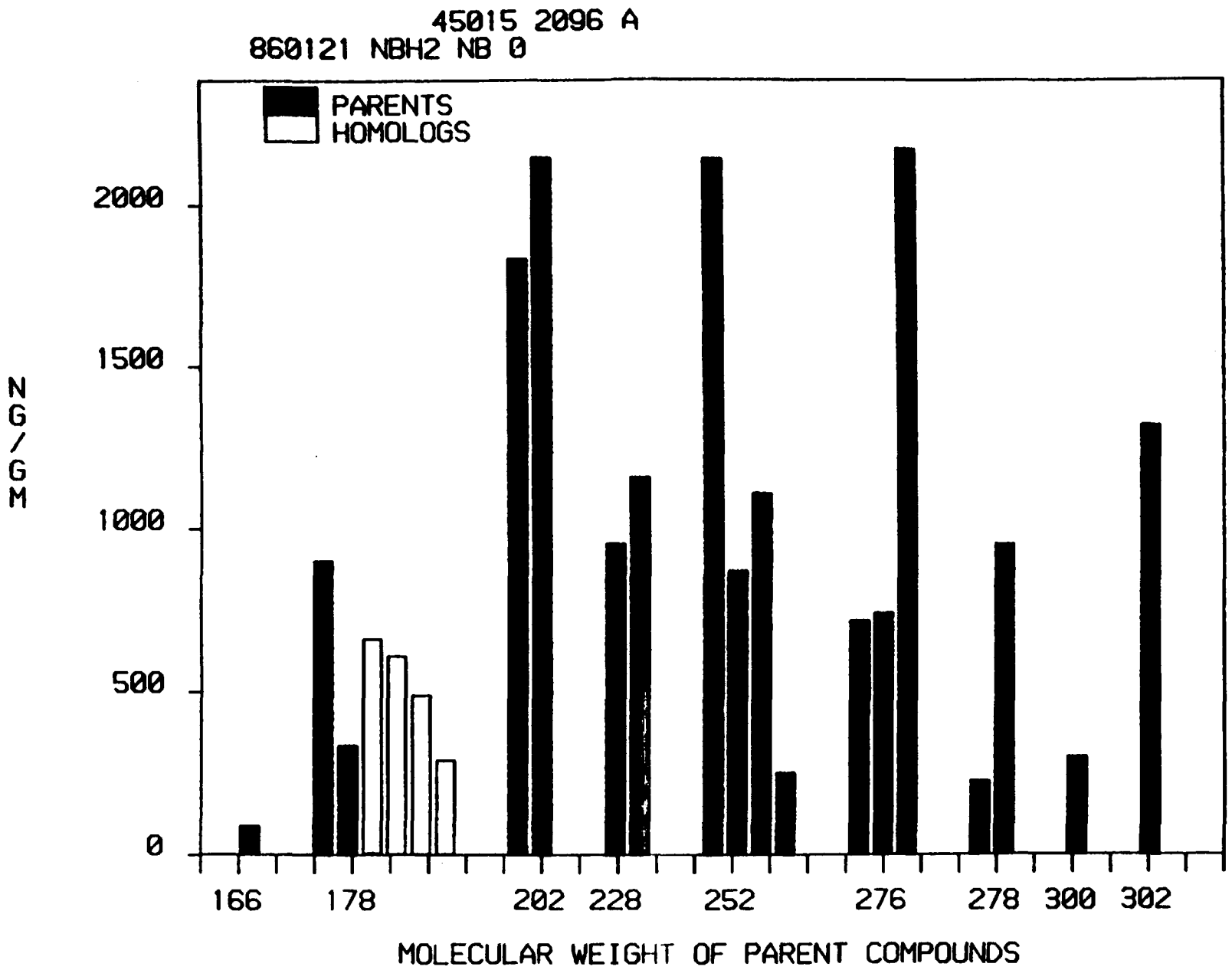
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH2 - CORE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NG/GM
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278
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302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

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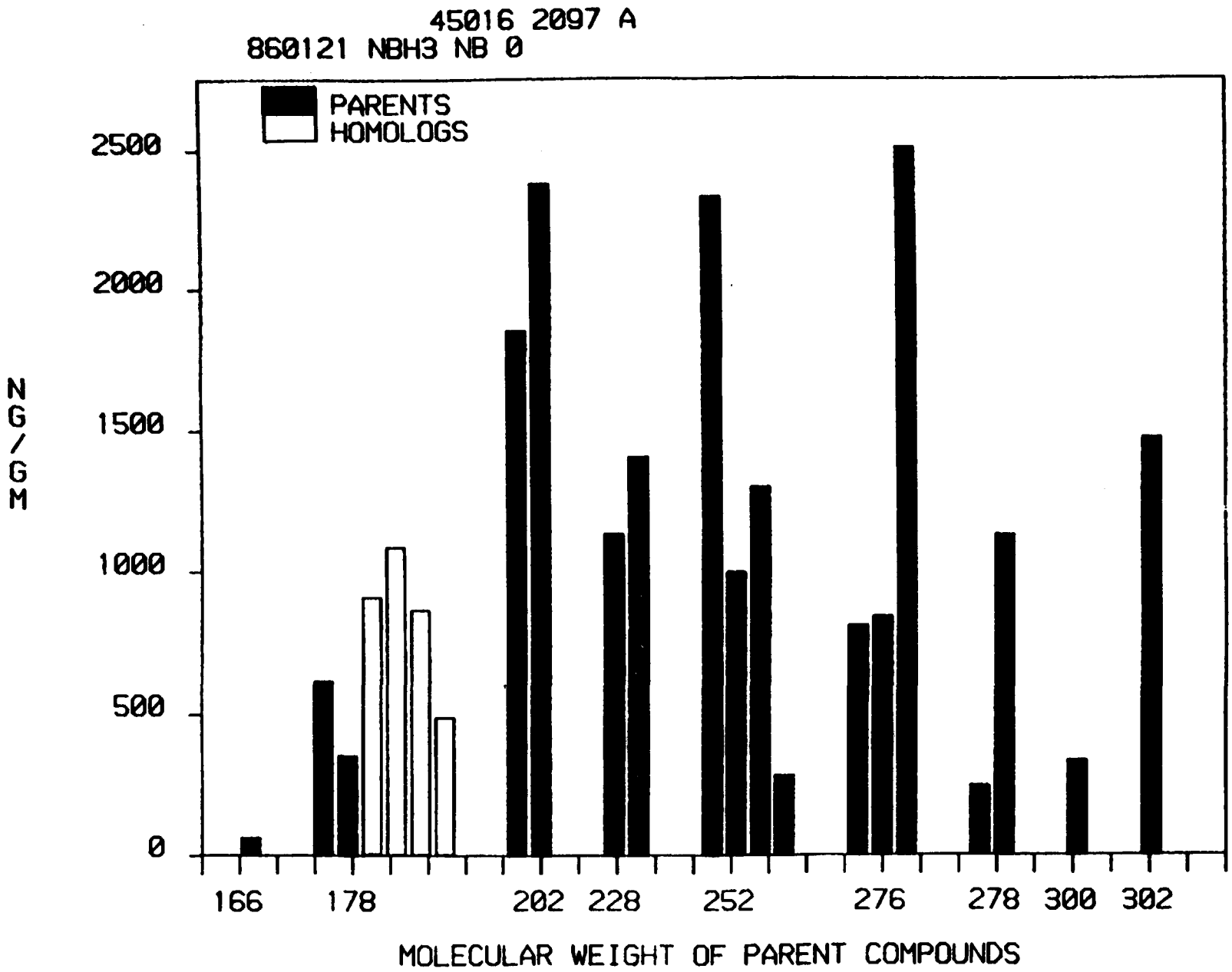
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500
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166
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252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

3H-4 CORE

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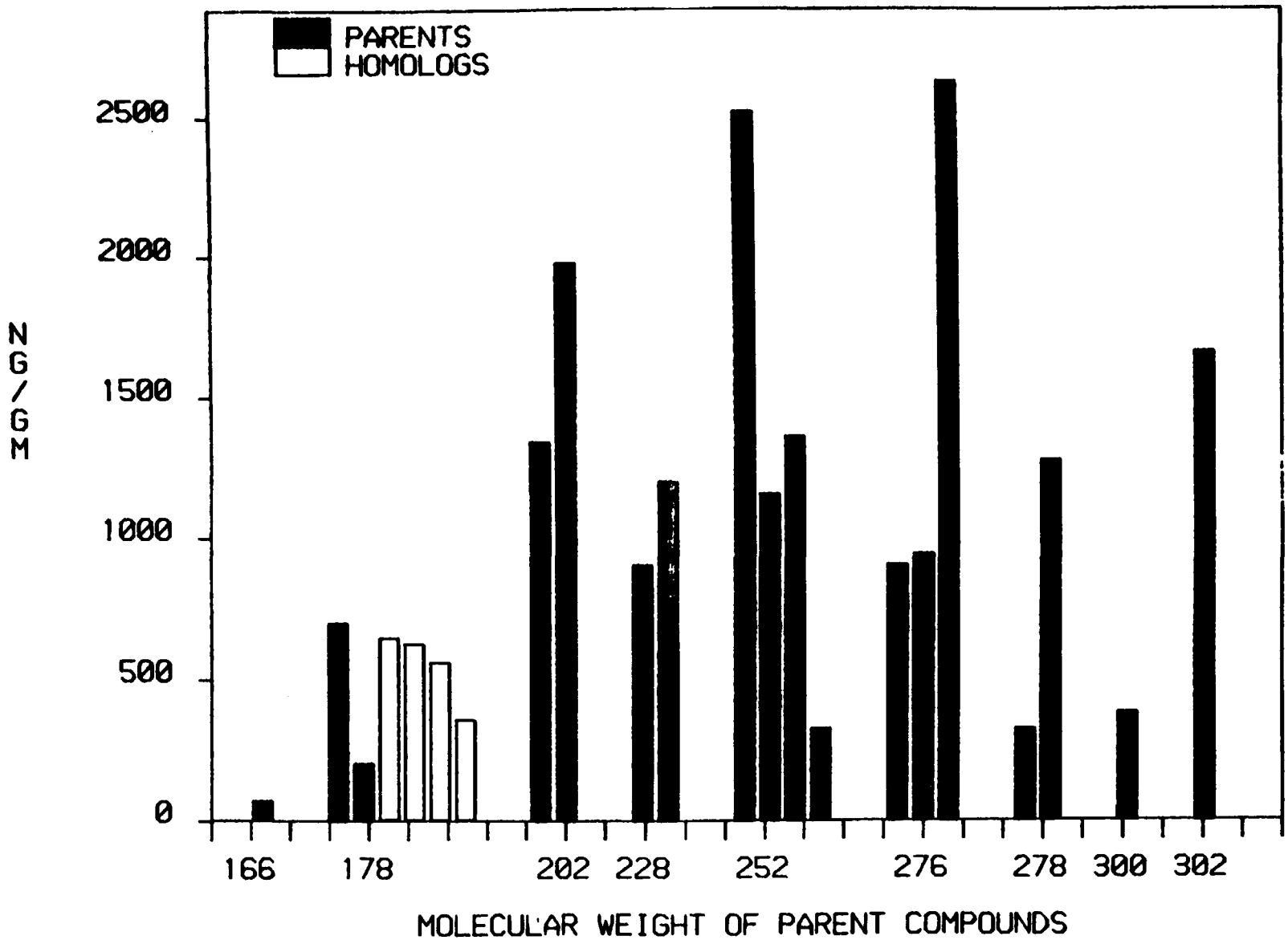

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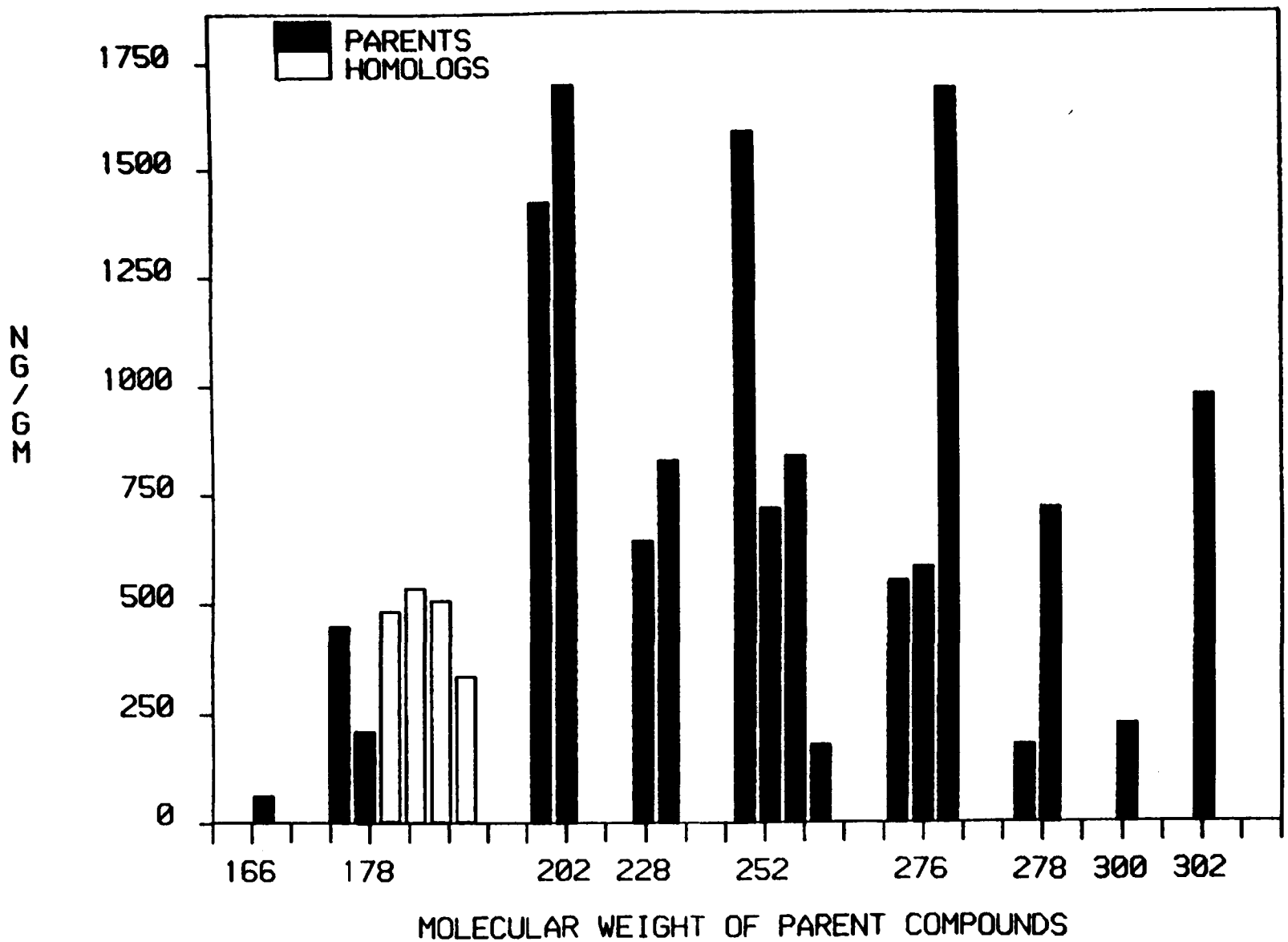

H-G CORE

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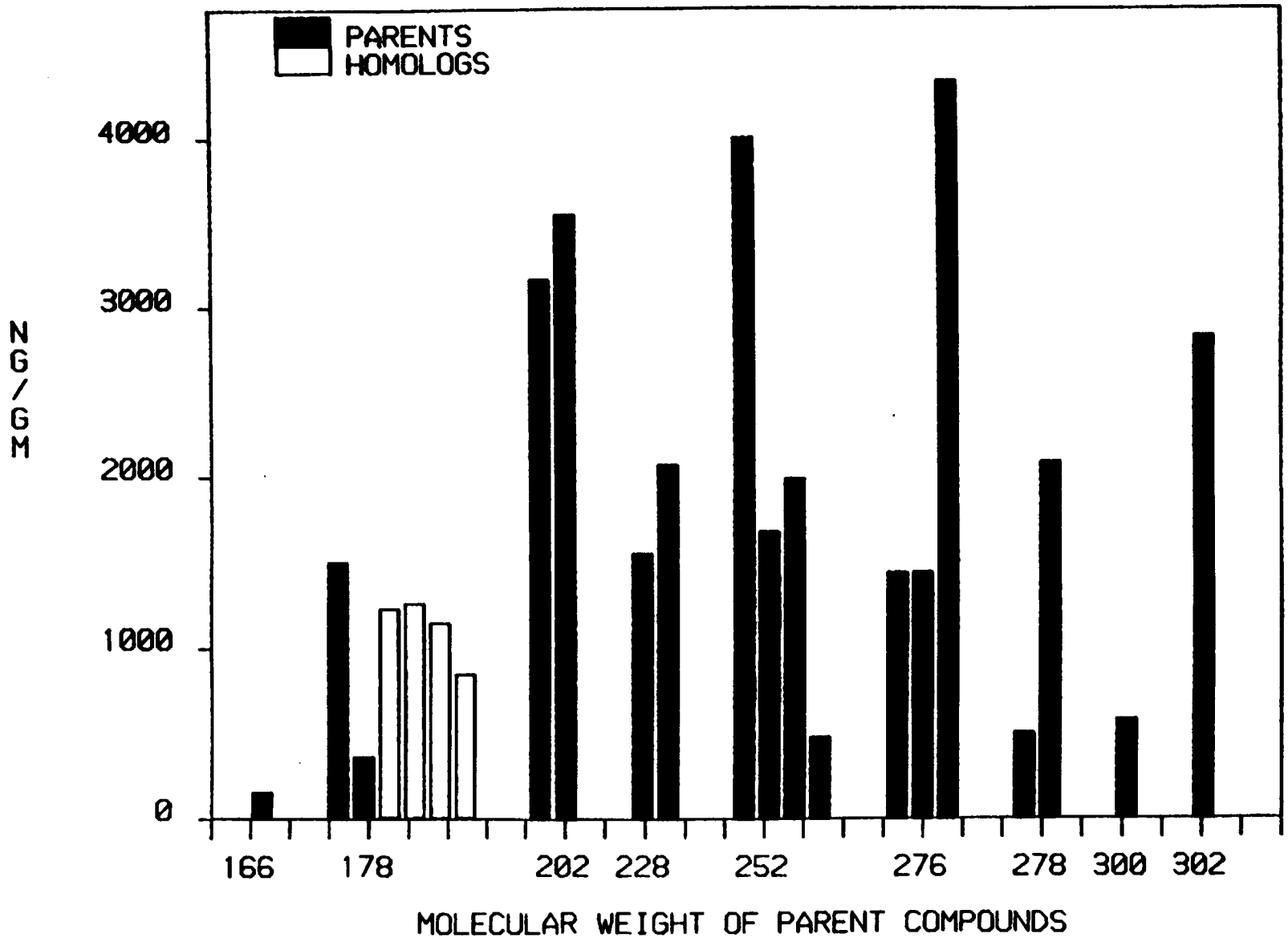
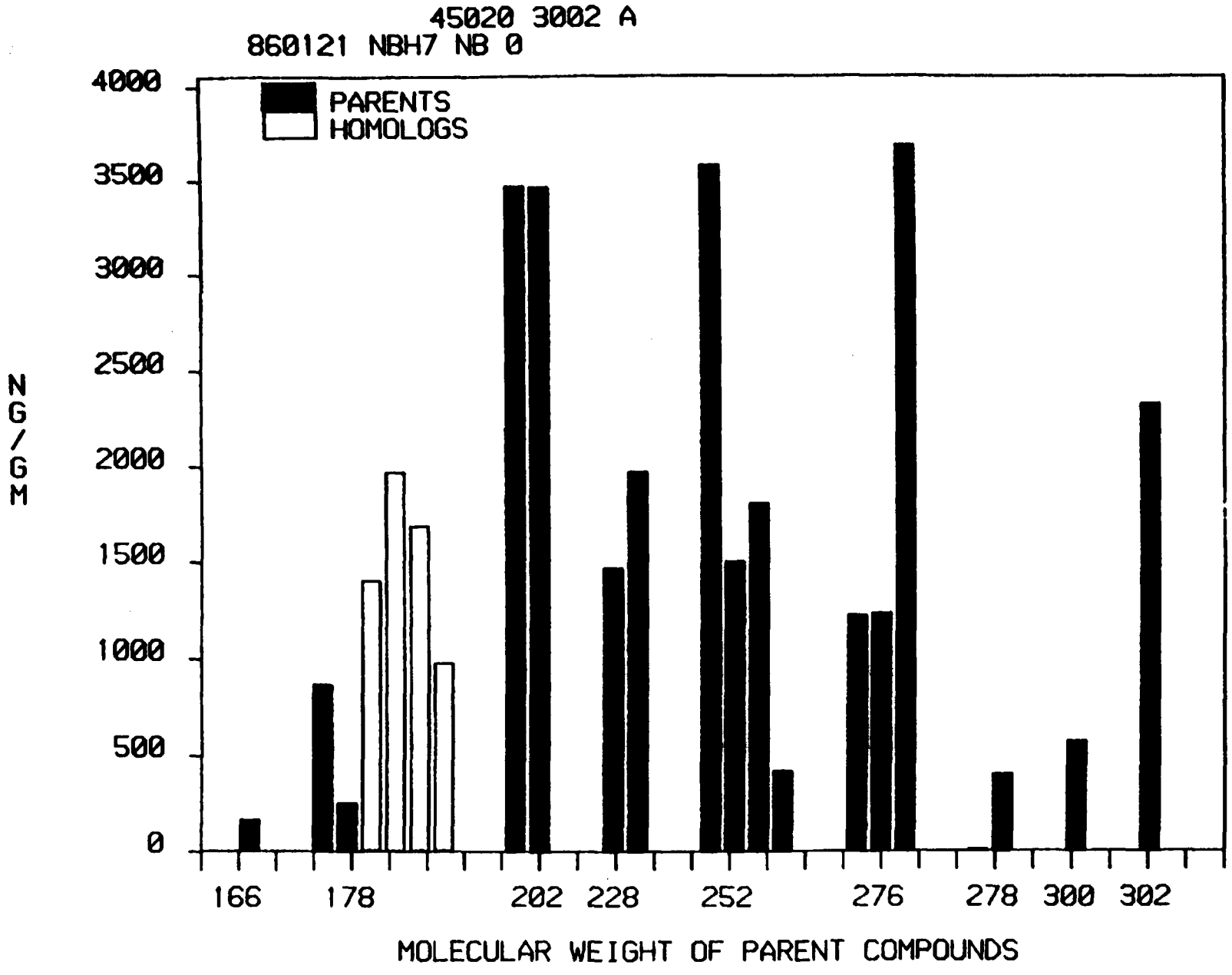


NRH-7 CORE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NG/GM
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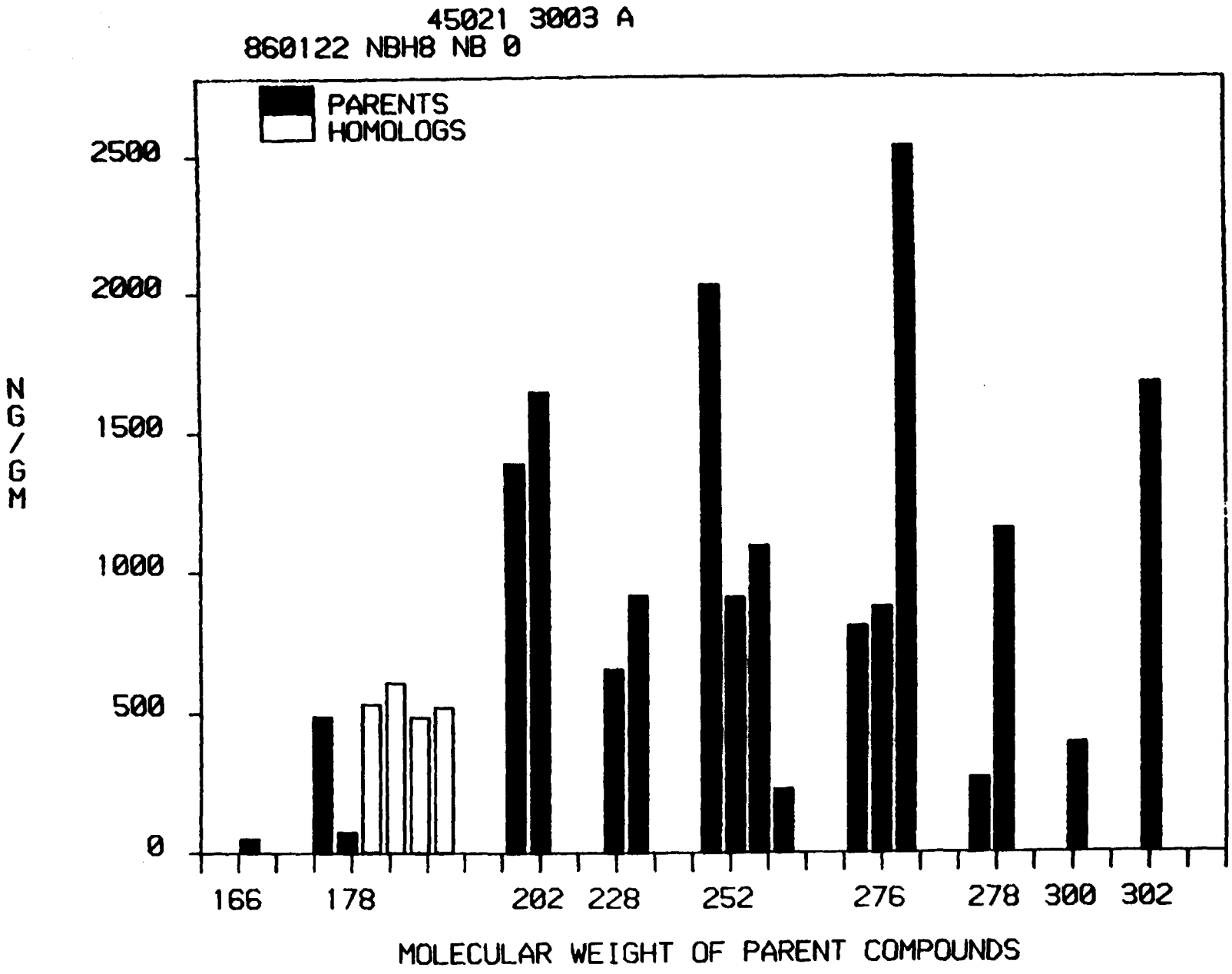
3500
3000
2500
2000
1500
1000
500
0
166
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-8 CORE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NG/GM
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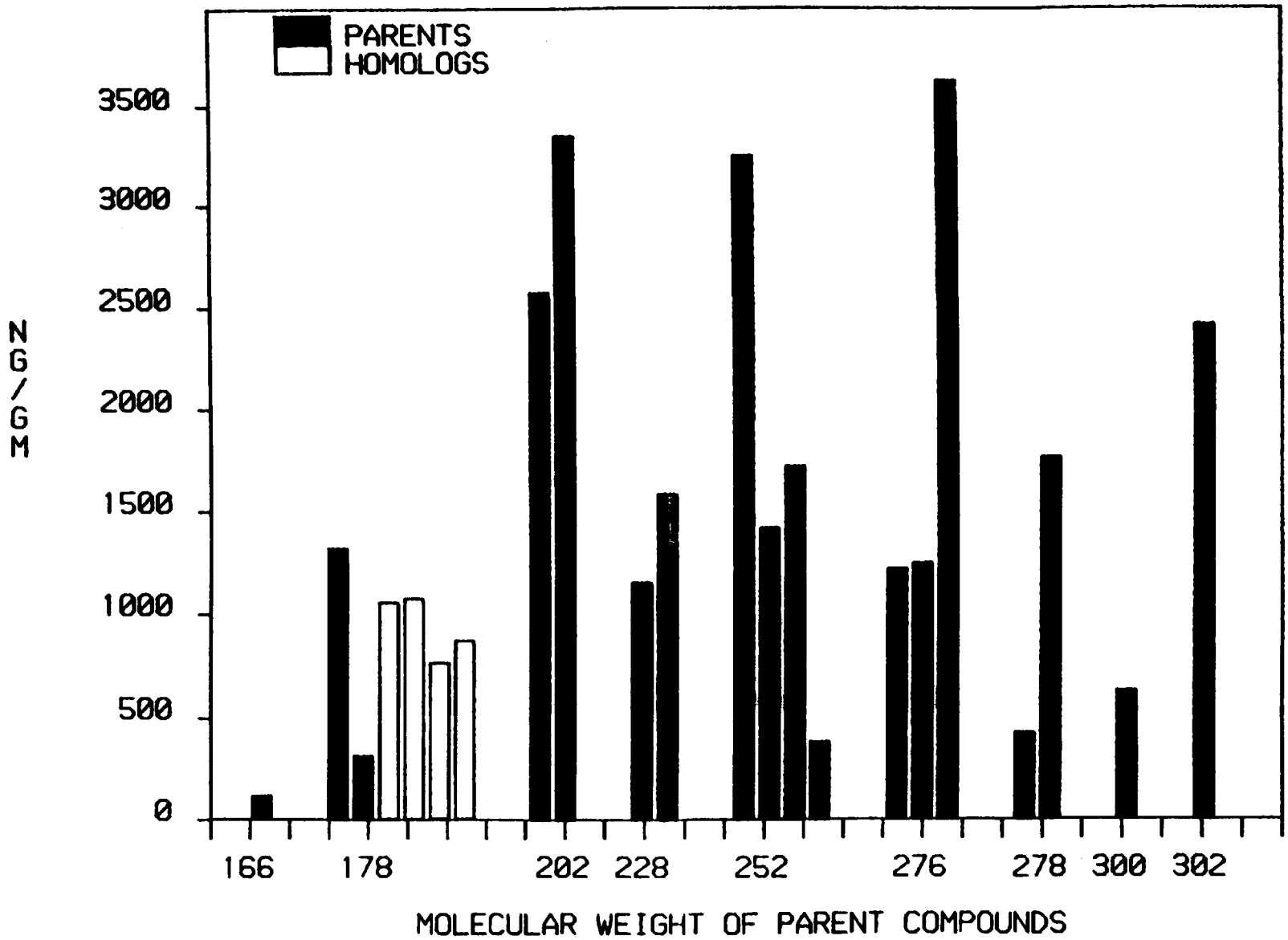
2000
1500
1000
500
0
166
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-9 CORE

45022 3004 A
860122 NBH9 NB 0



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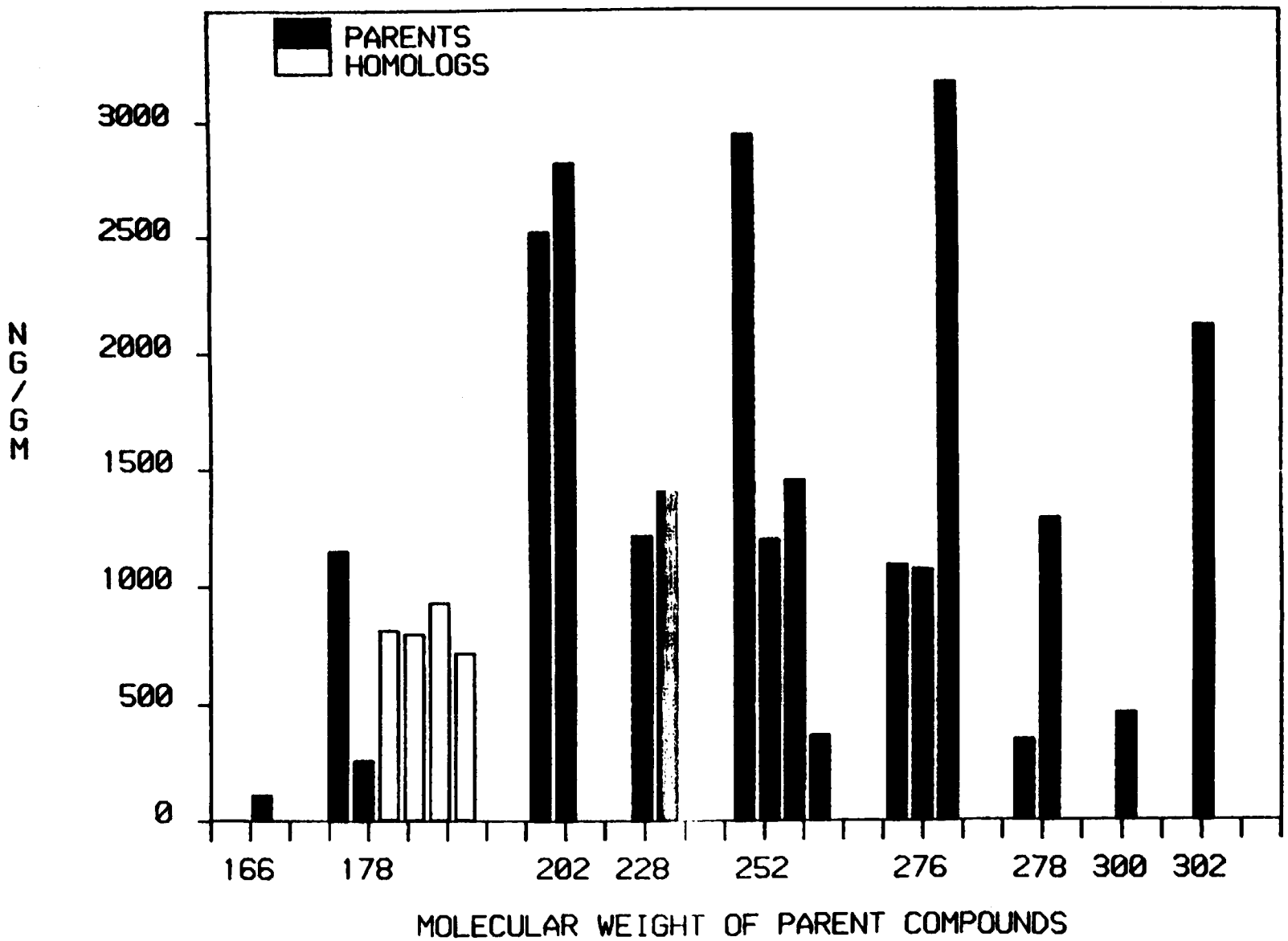
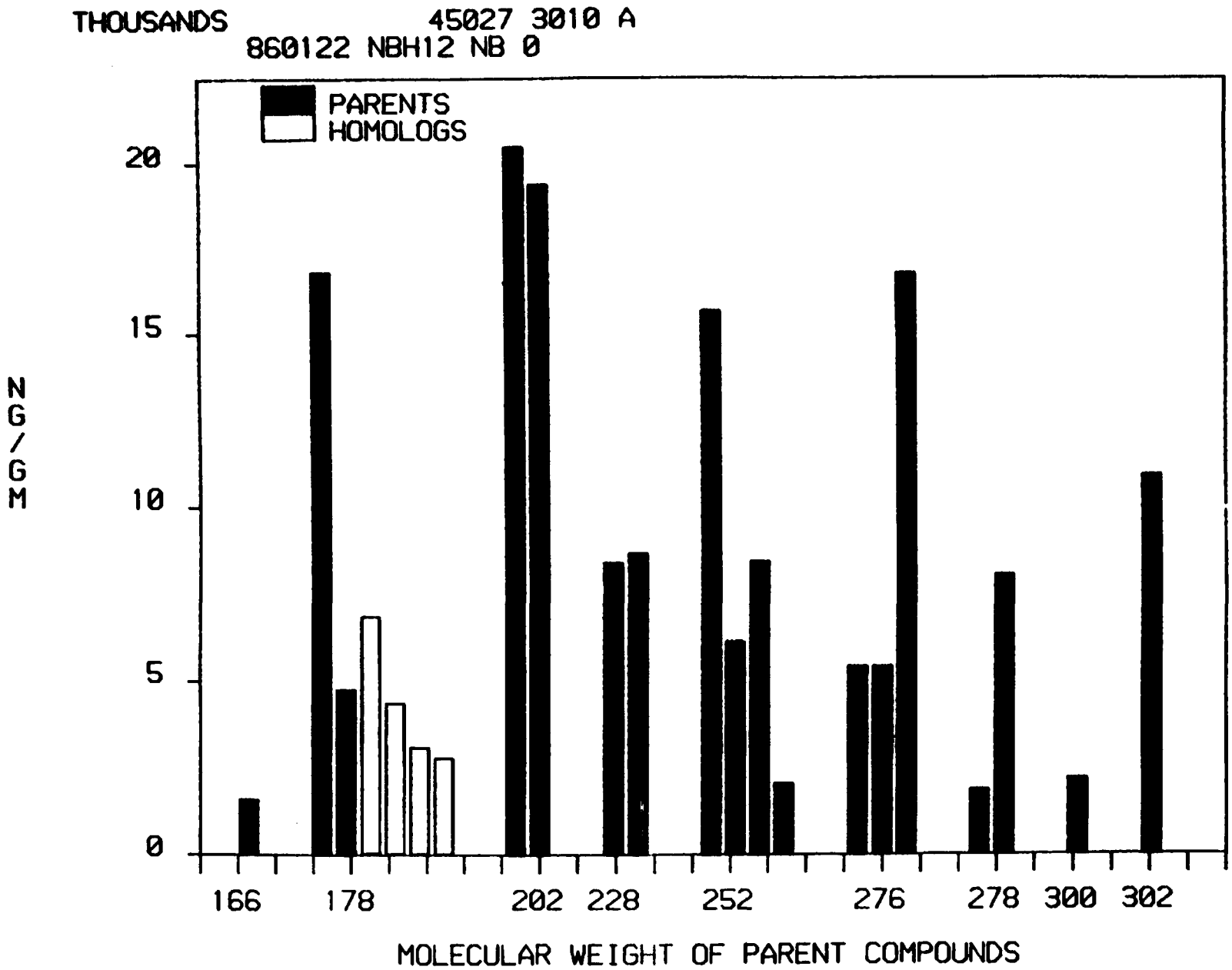
860122 NBH10 NB 0



NB 11-12 CORE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HOMOLOGS
NG/GM
20
15
10
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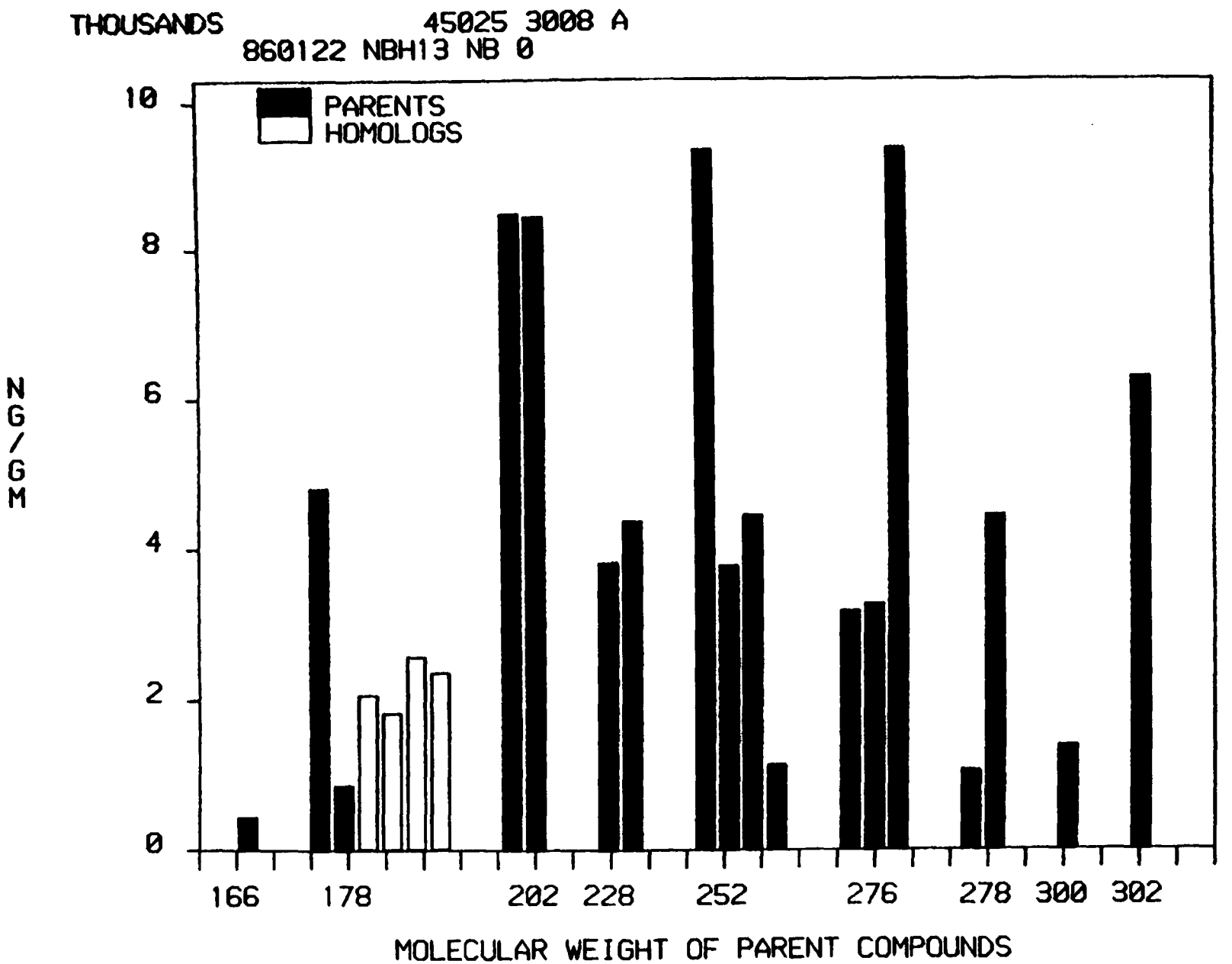
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-13 CORE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NG/GM
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8
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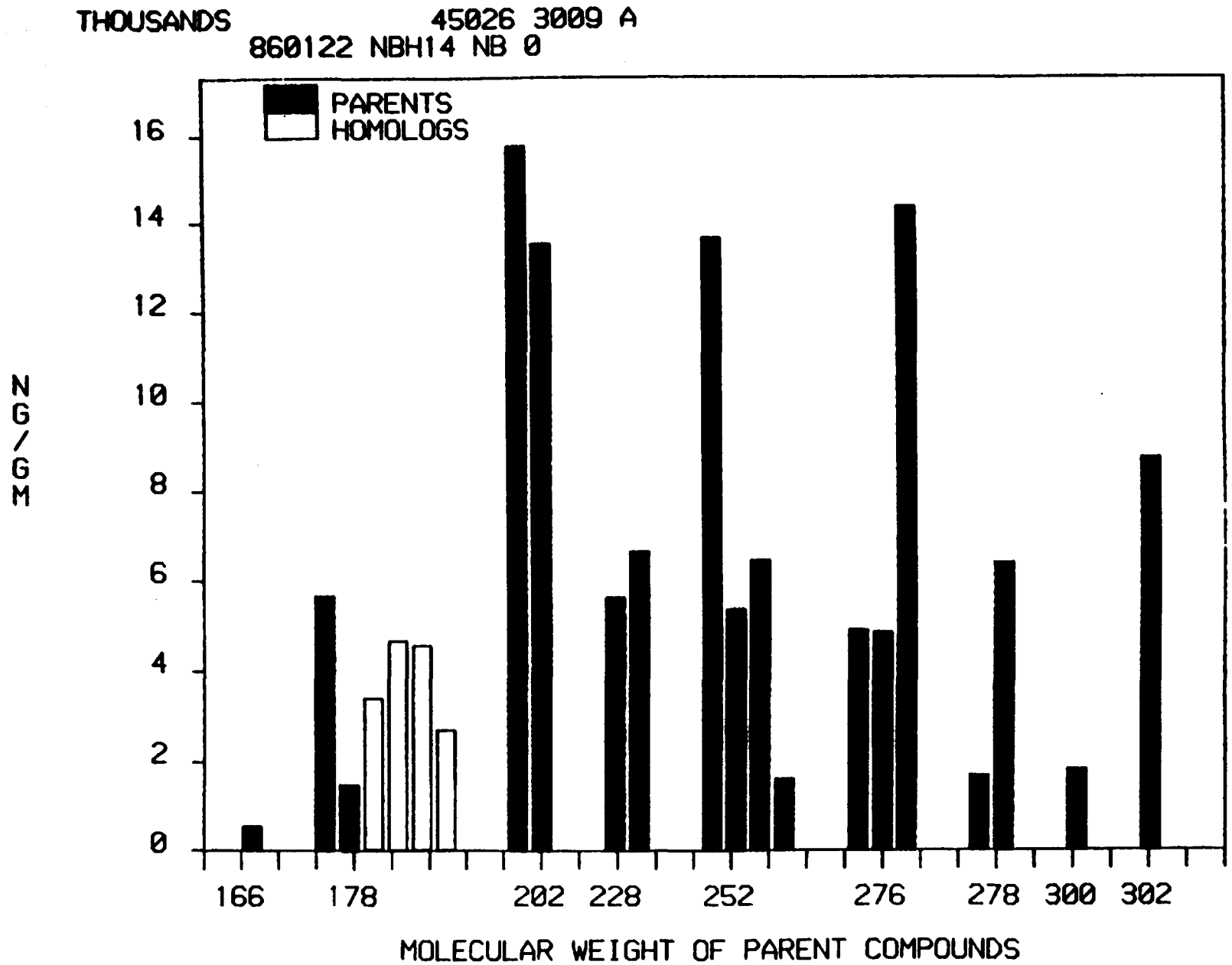
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-14 CORE


THOUSANDS
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PARENTS
HOMOLOGS
NG/GM
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14
12
10
8
6
4
2
0
166
178
202
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252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

2EF

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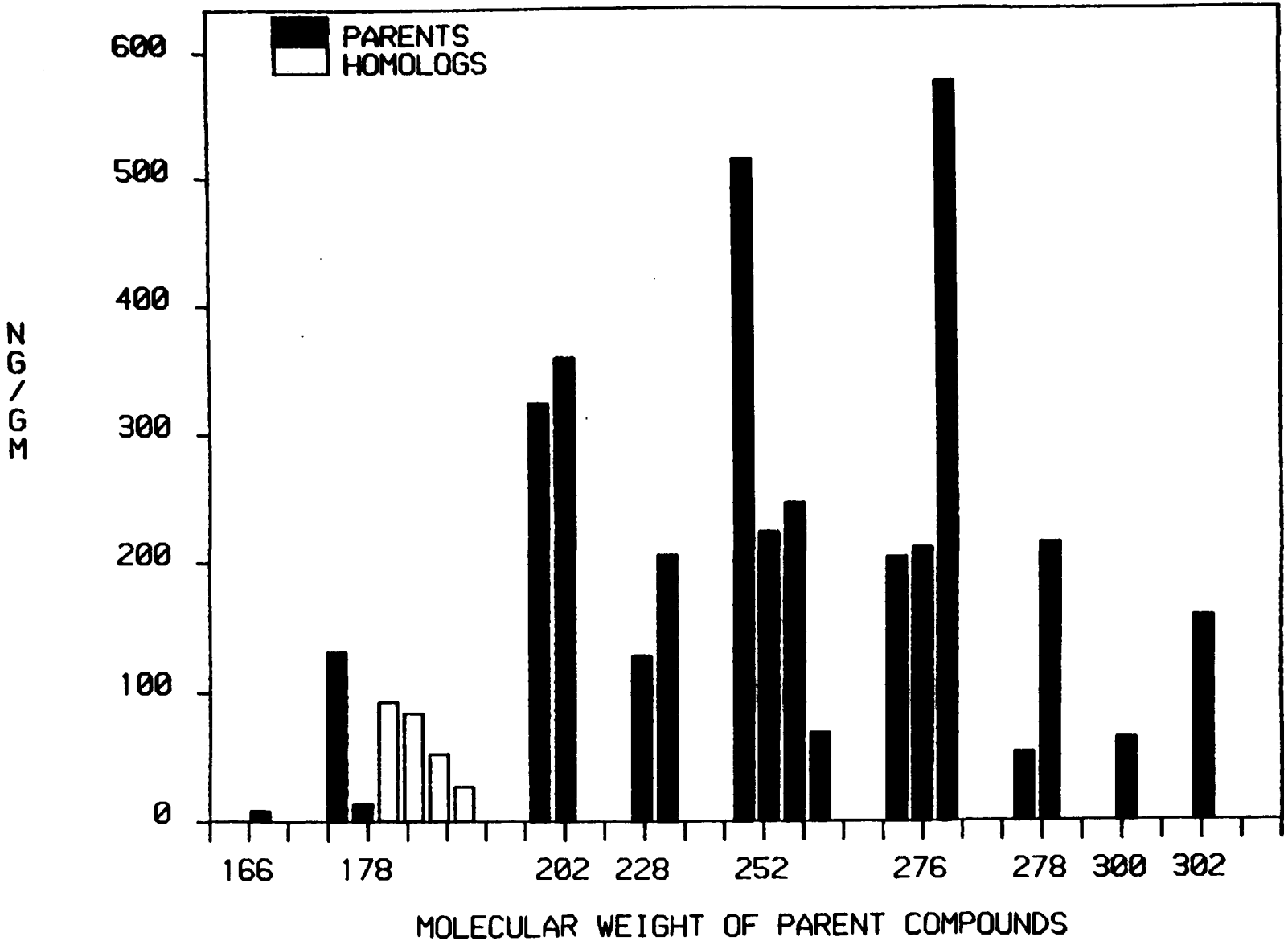

SREF

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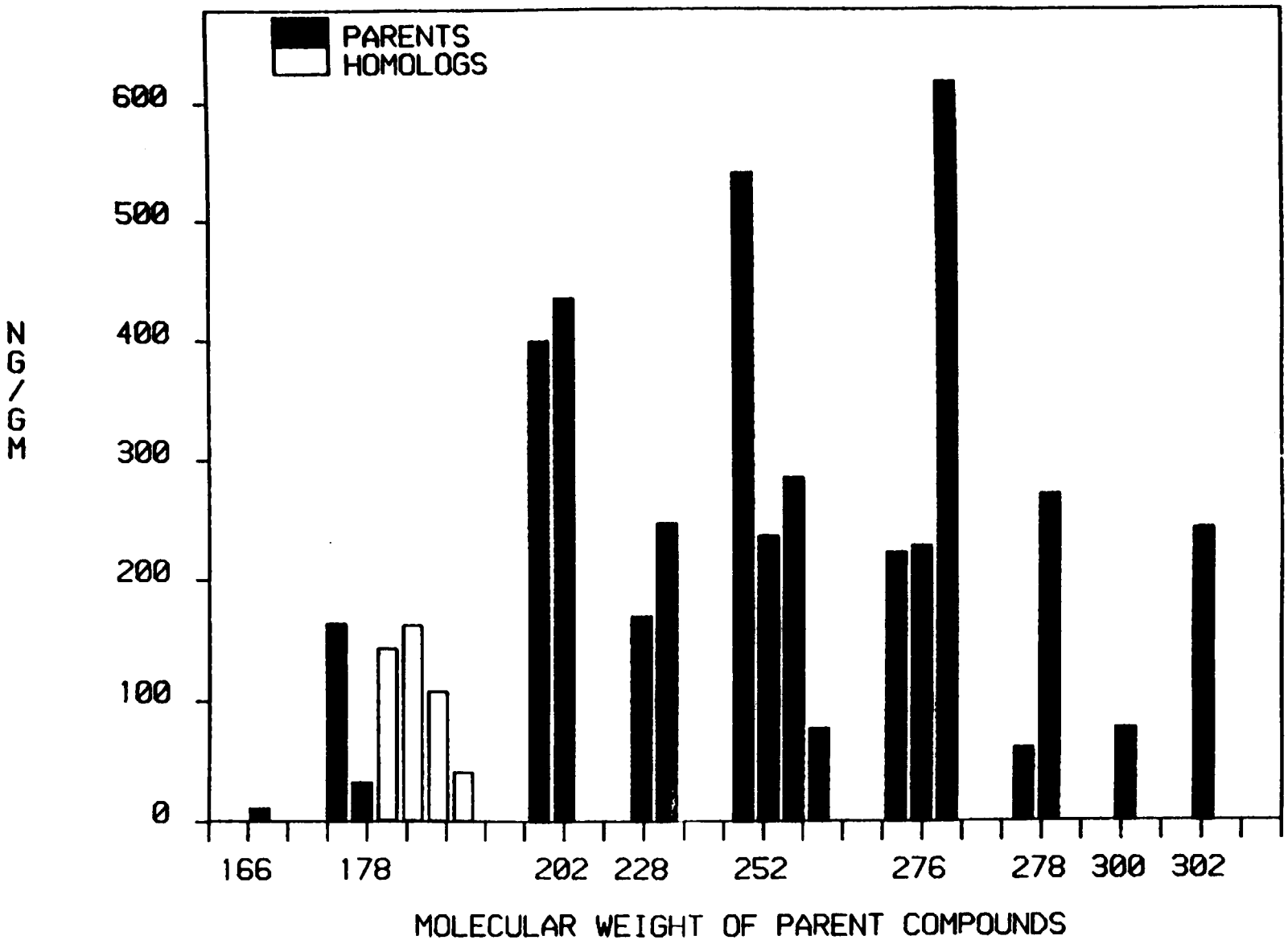

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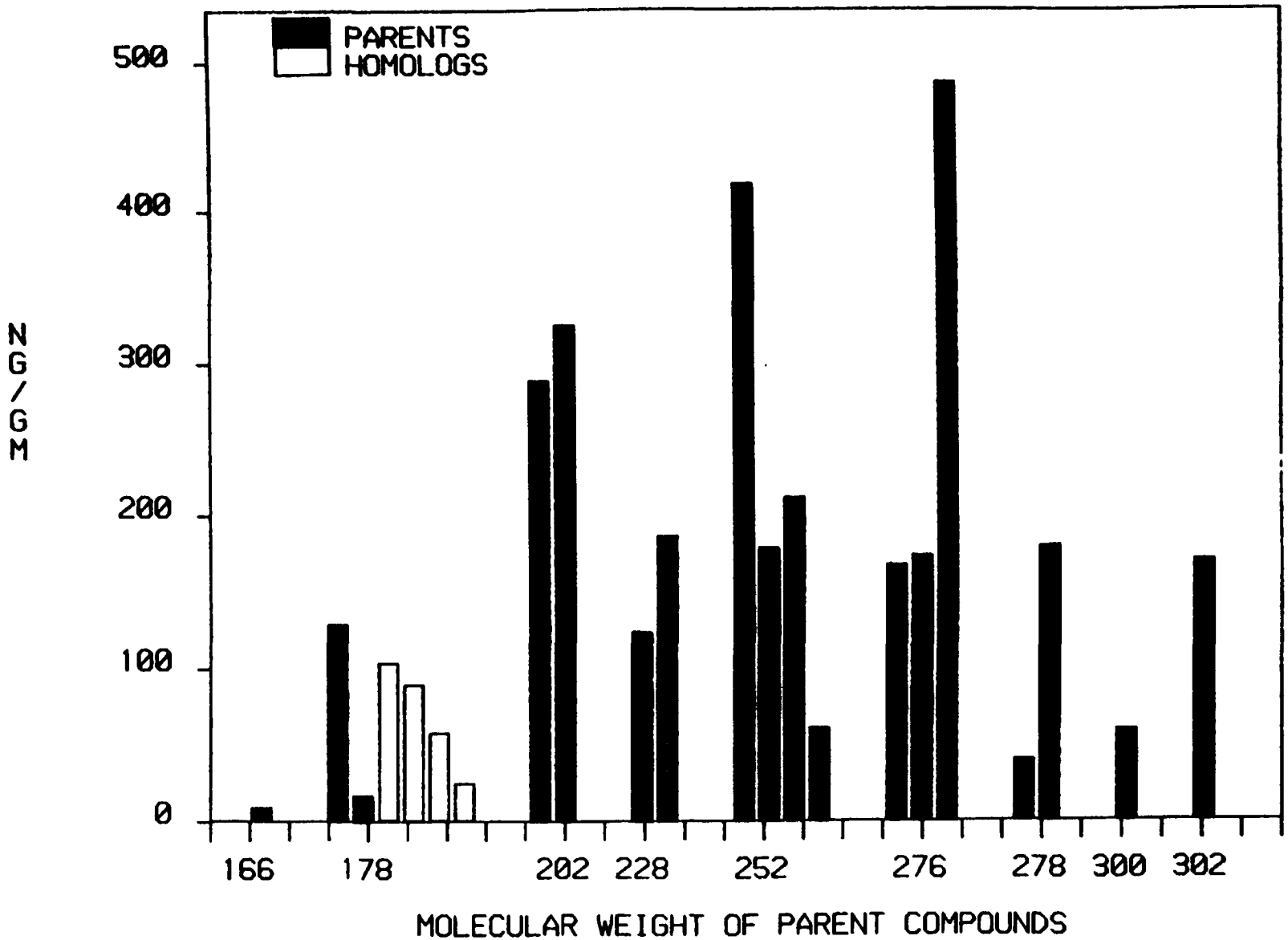

NBH BARREL

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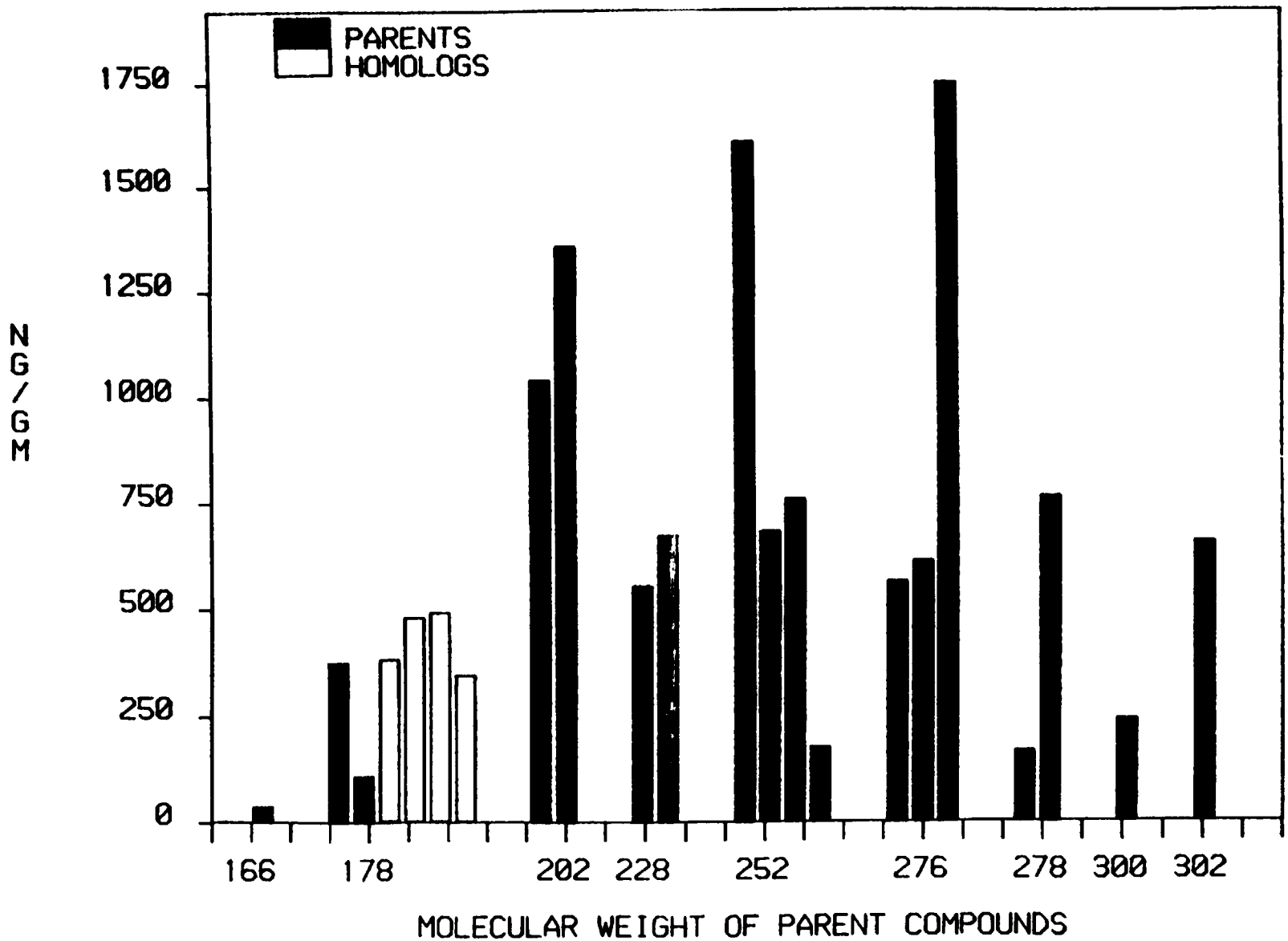
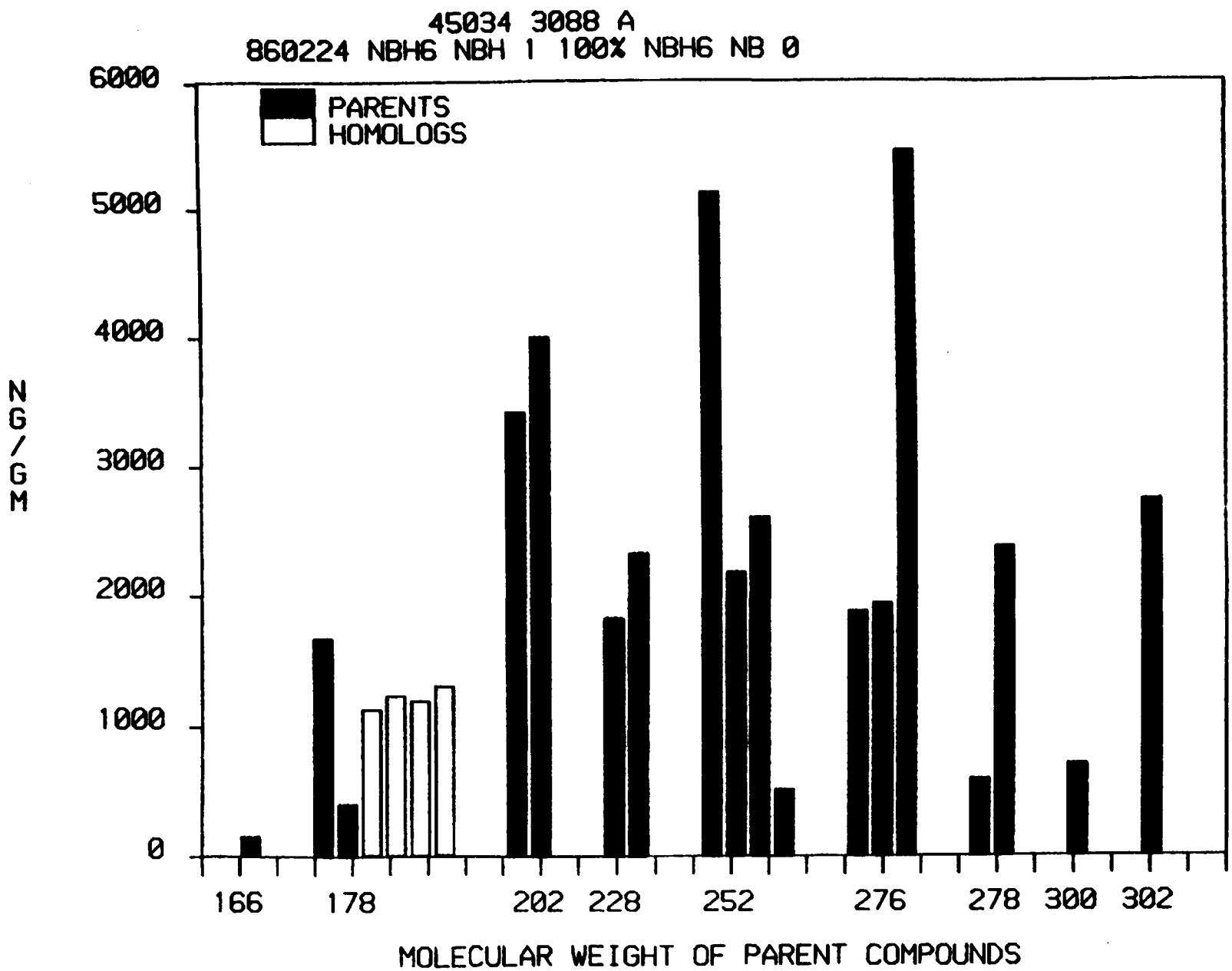


NB: G BARREC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HOMOLOGS
NG/GM
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4000
3000
2000
1000
0
166
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NB G BARREL

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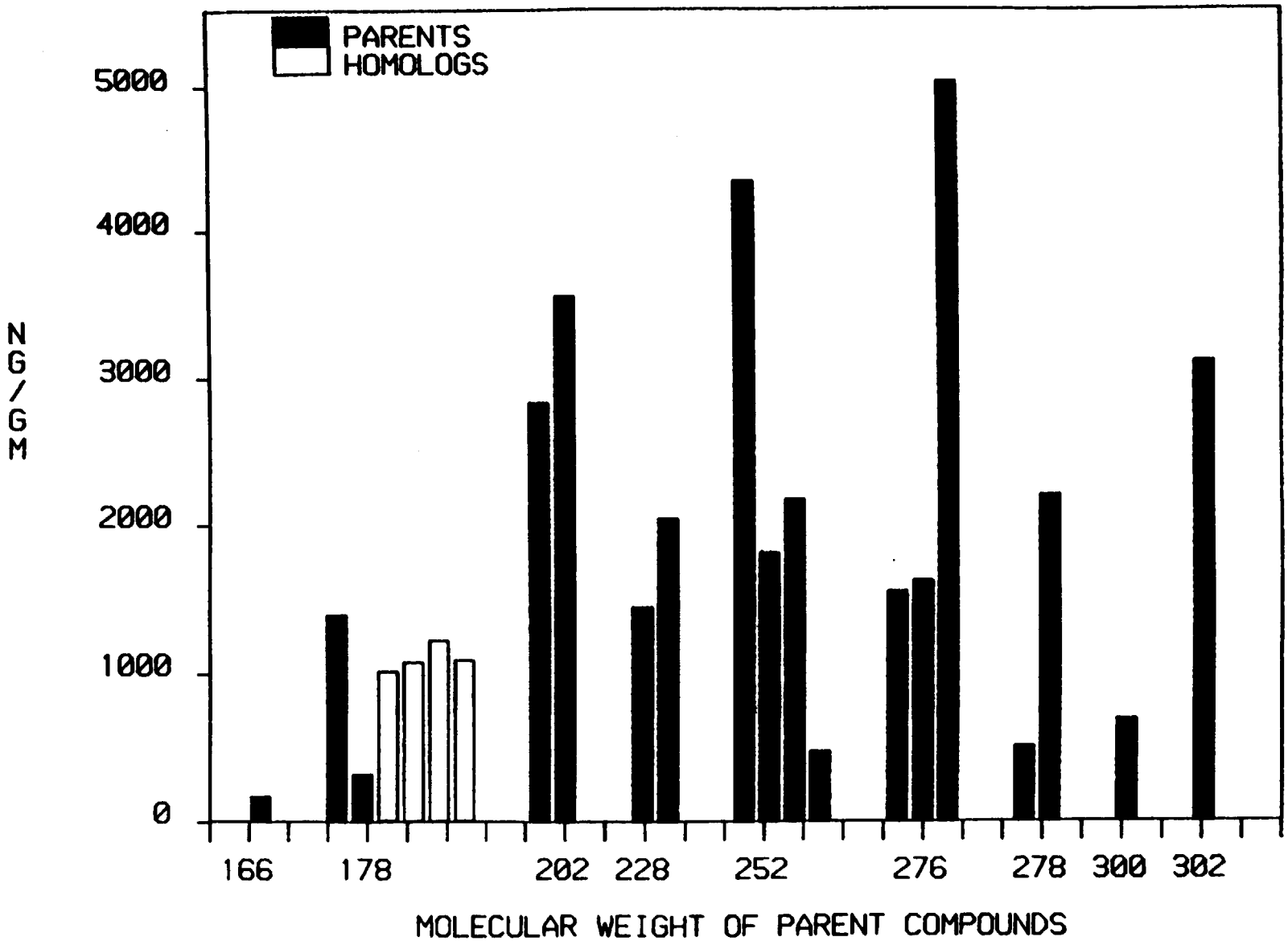
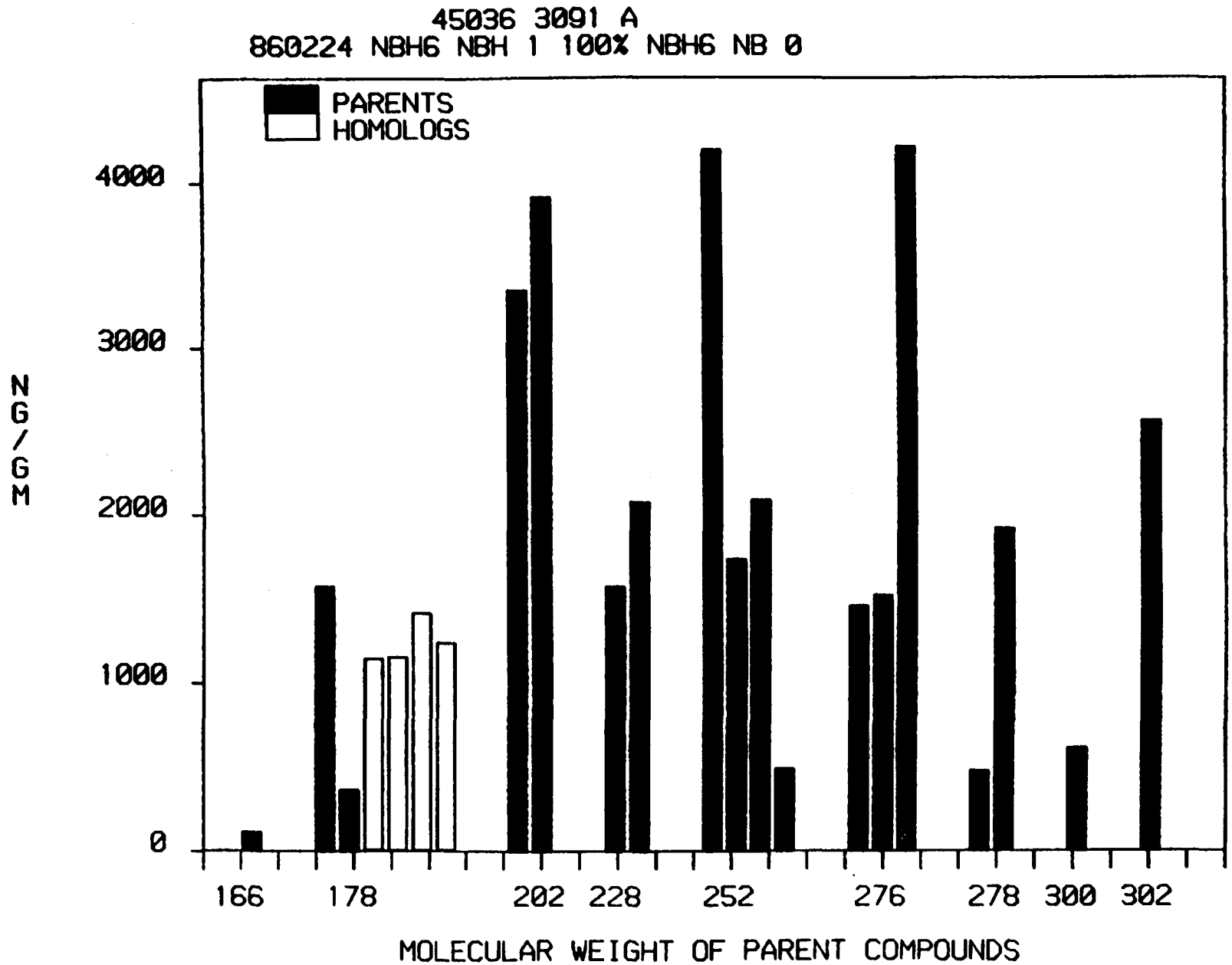


NBH-6 (ARREL



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PARENTS
HOMOLOGS
NG/GM
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3000
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1000
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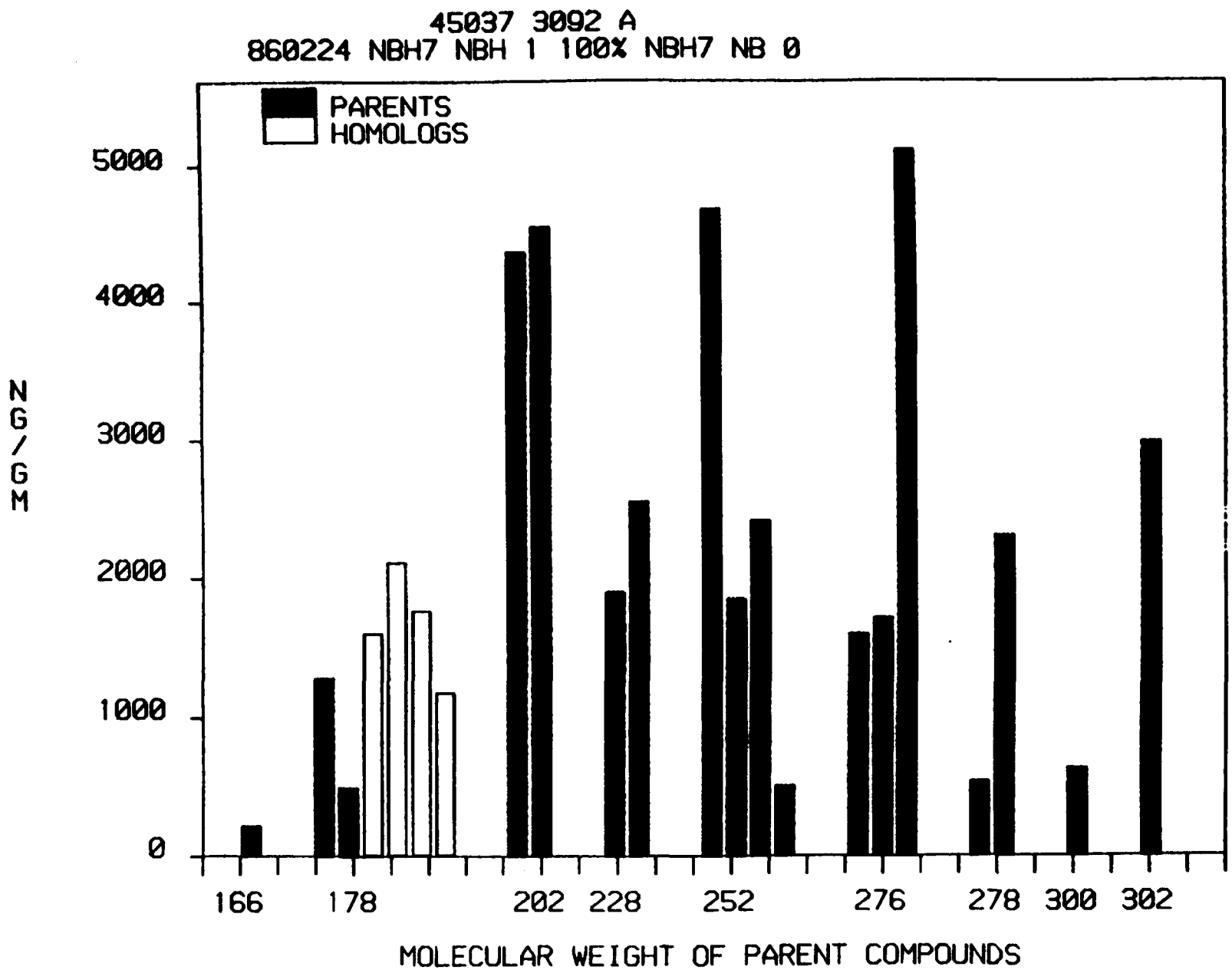
166
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-7 BARREL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2000
1000
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NG/GM
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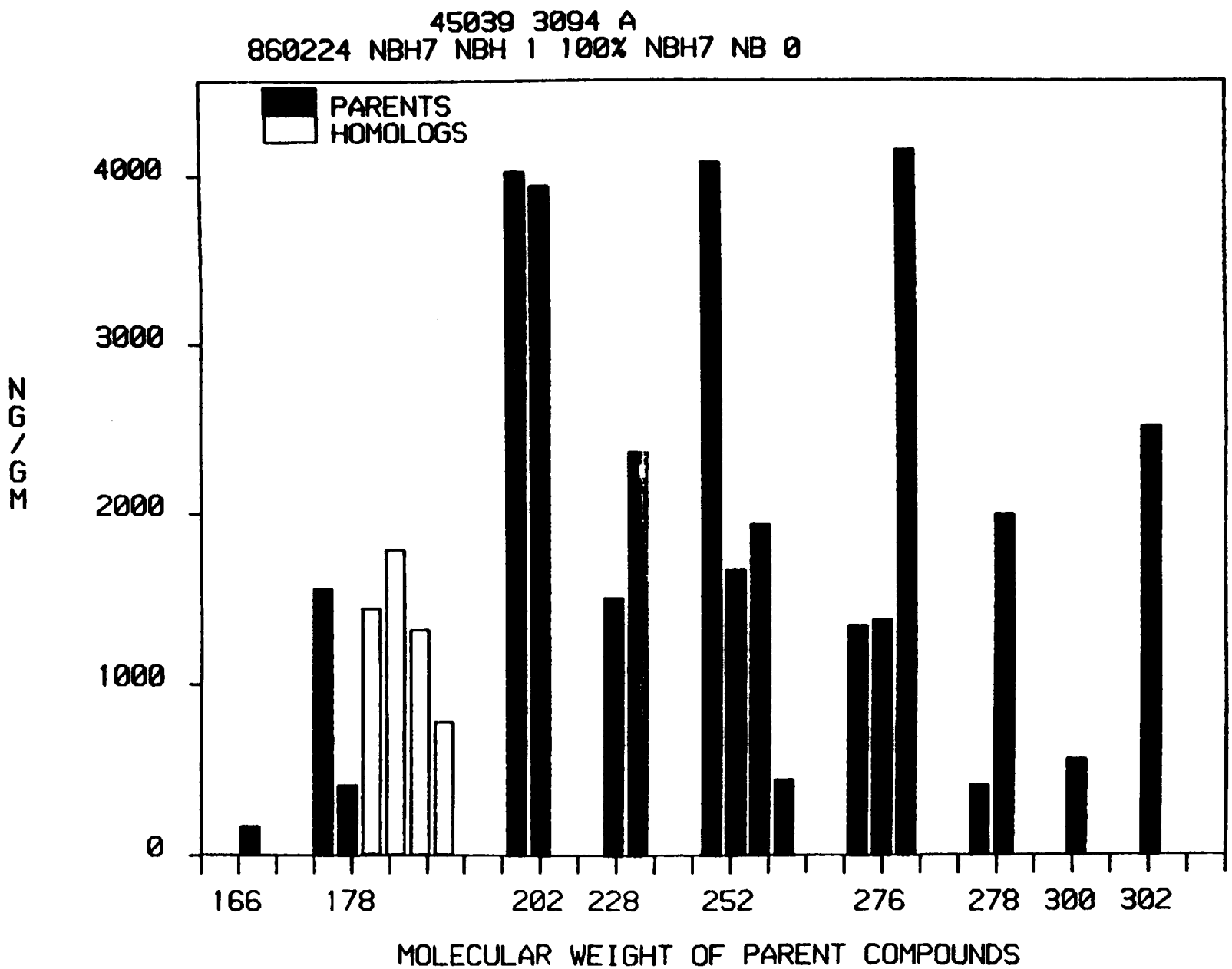
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-7, BARREL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HOMOLOGS
NG/GM
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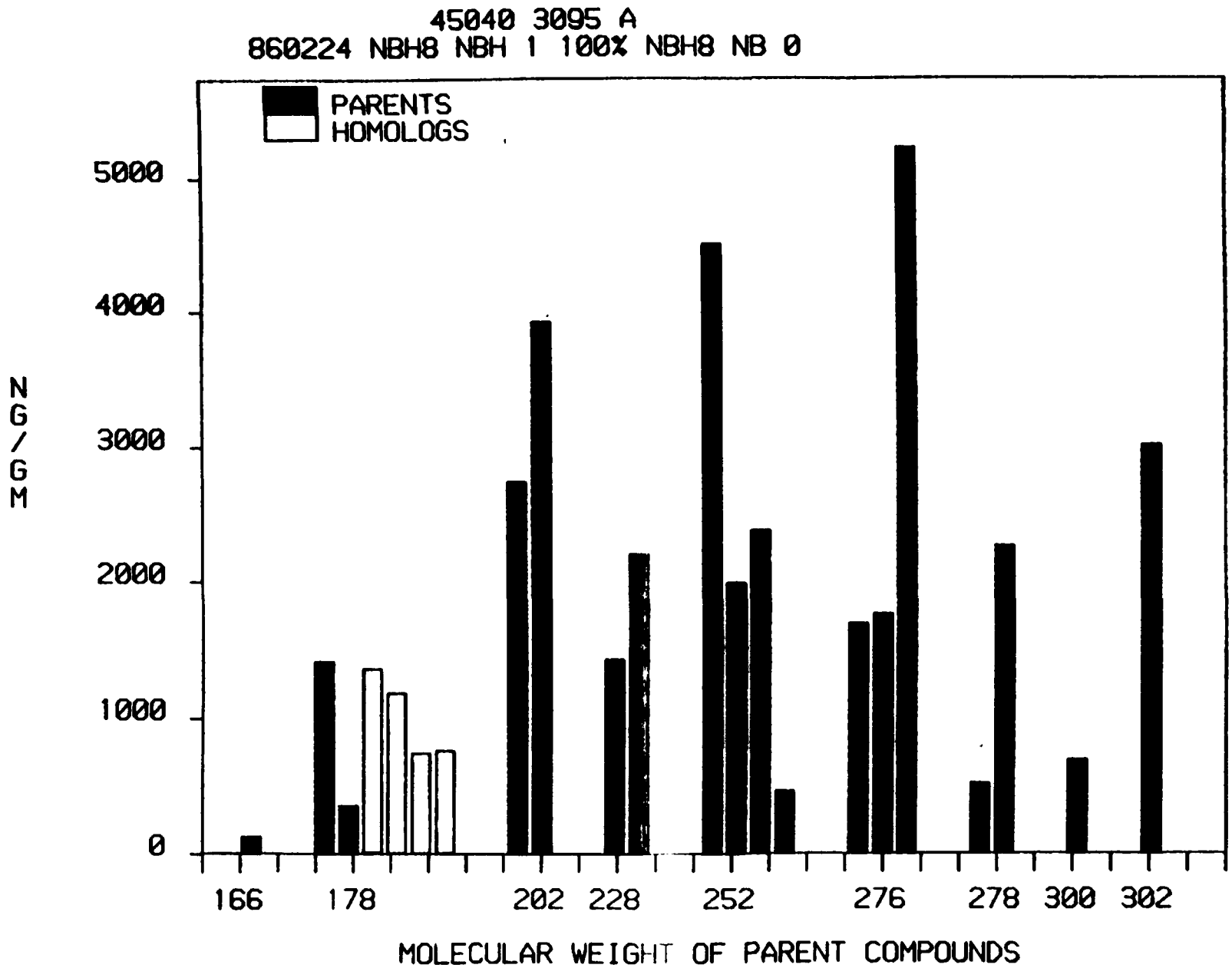
178
202
228
252
276
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-8 BARREL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PARENTS
HOMOLOGS
NG/GM
5000
4000
3000
2000
1000
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166
178
202
228
252
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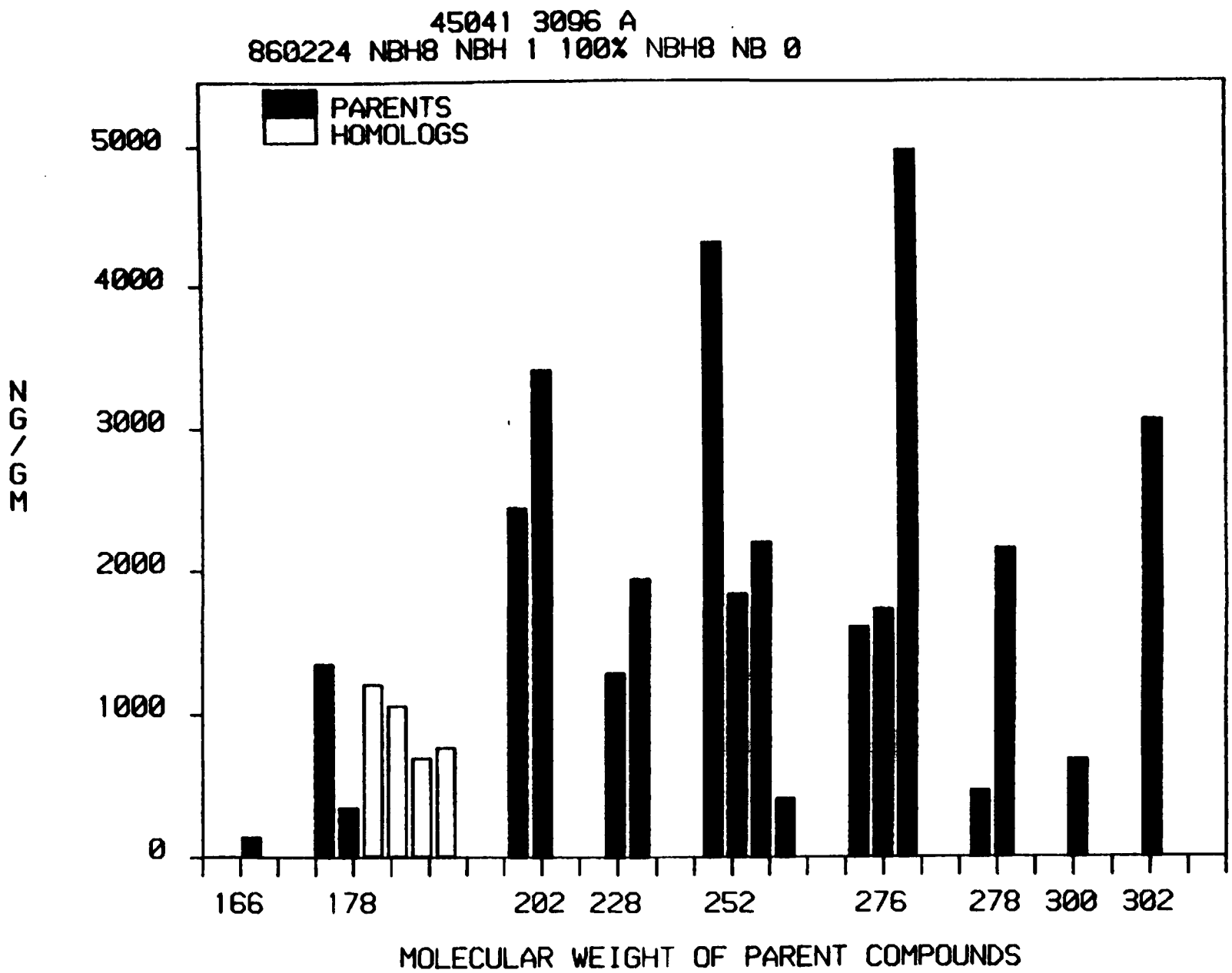
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-8 BARREL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NG/GM
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178
202
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252
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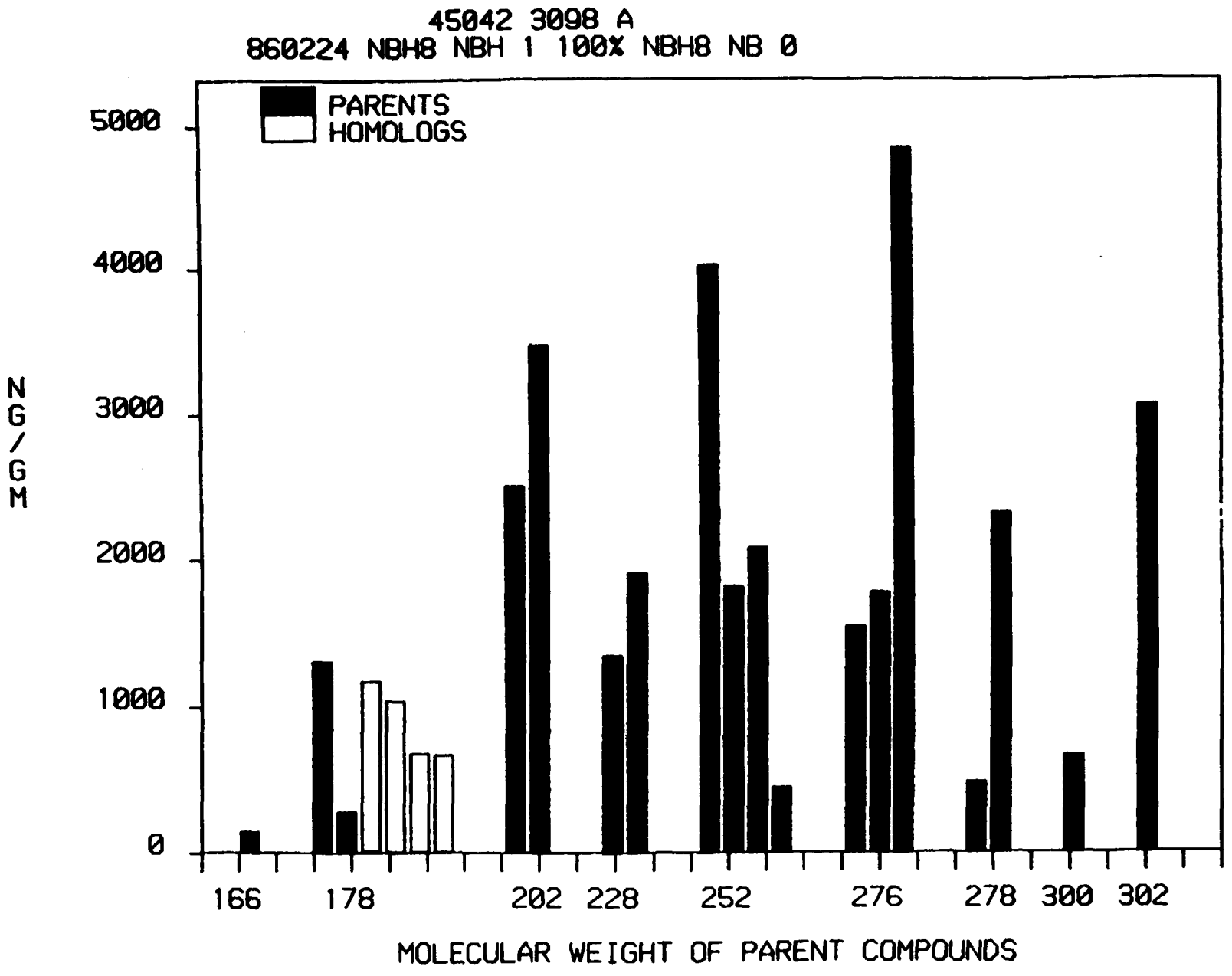
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

NBH-8 BARREL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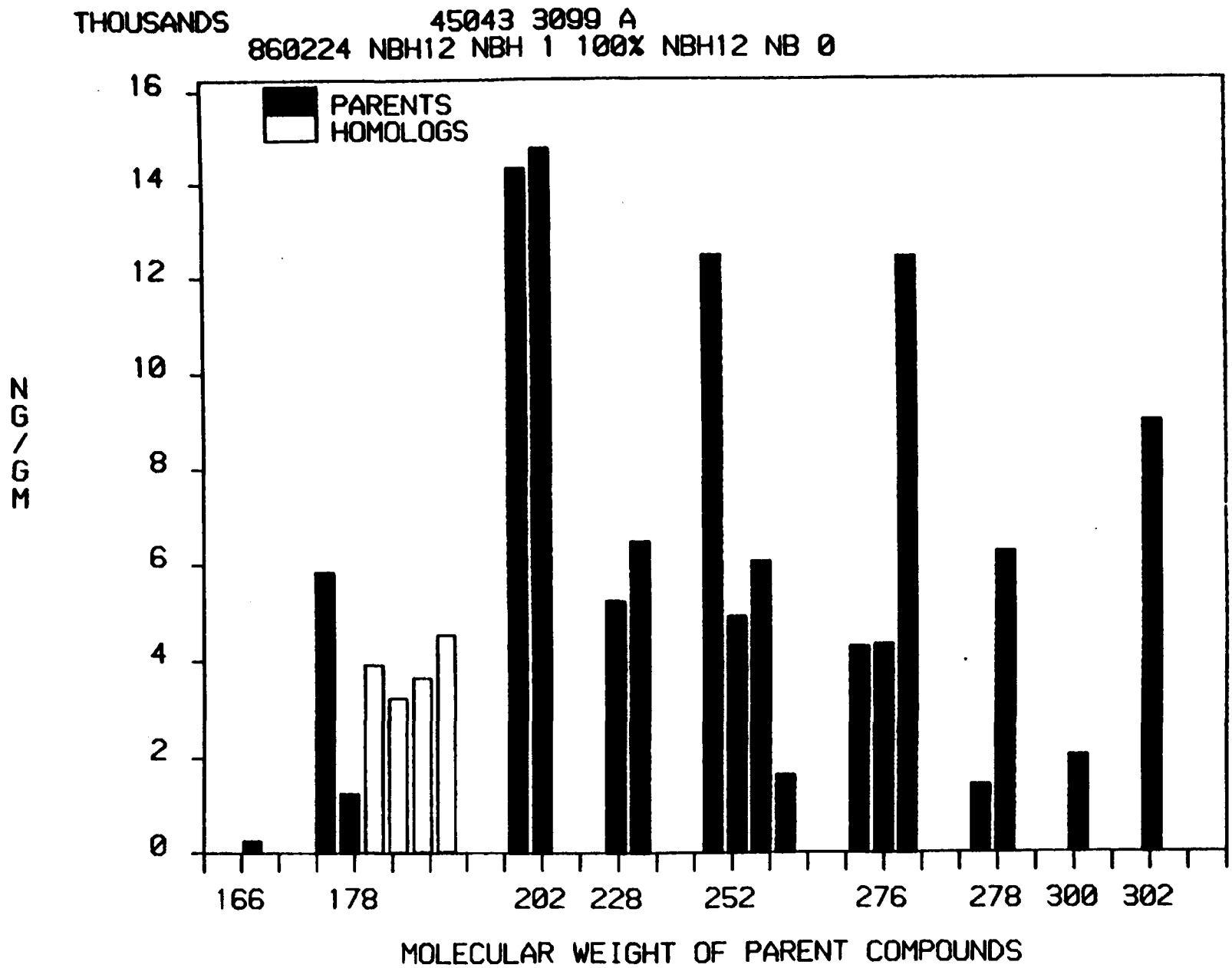
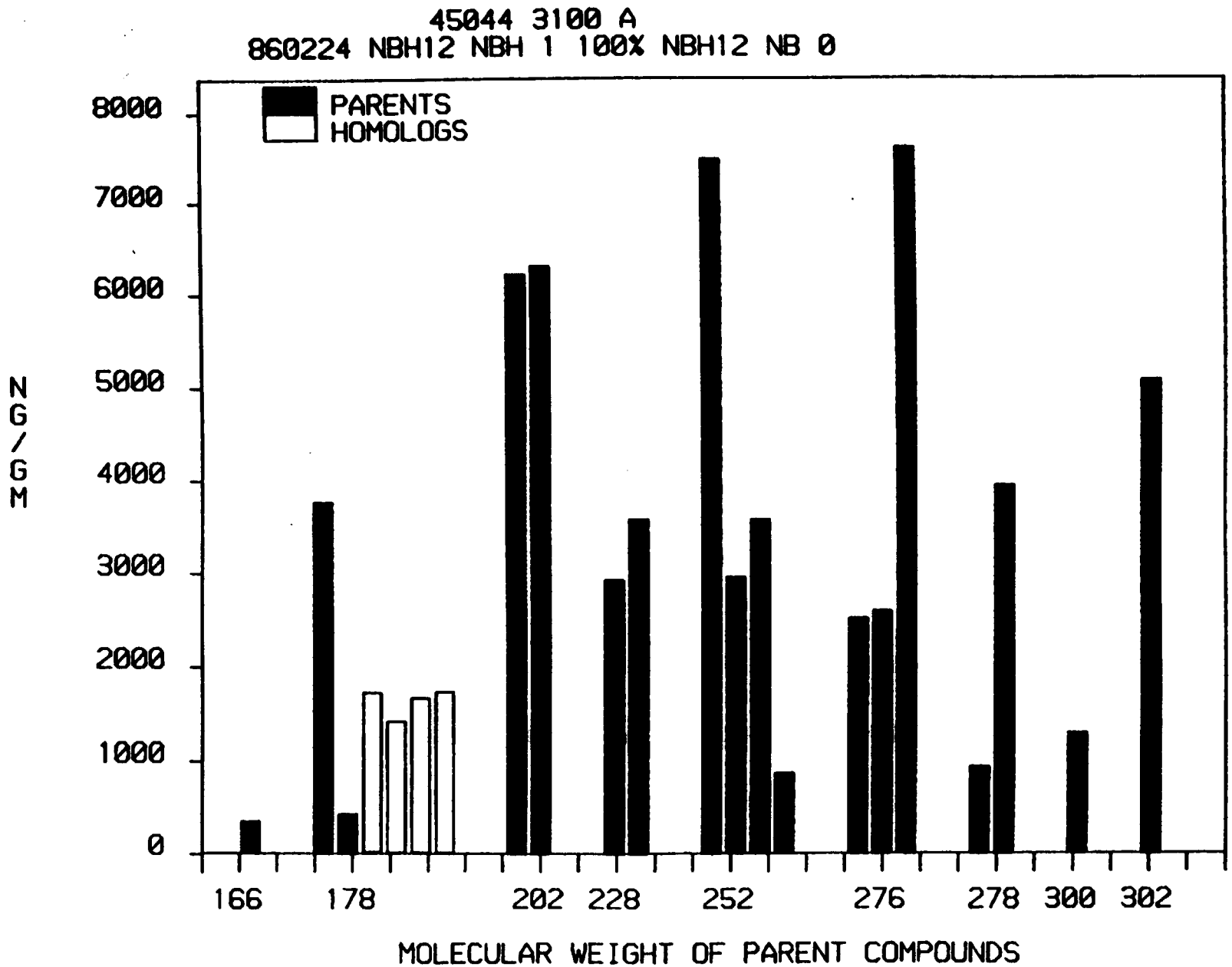
278
300
302
MOLECULAR WEIGHT OF PARENT COMPOUNDS

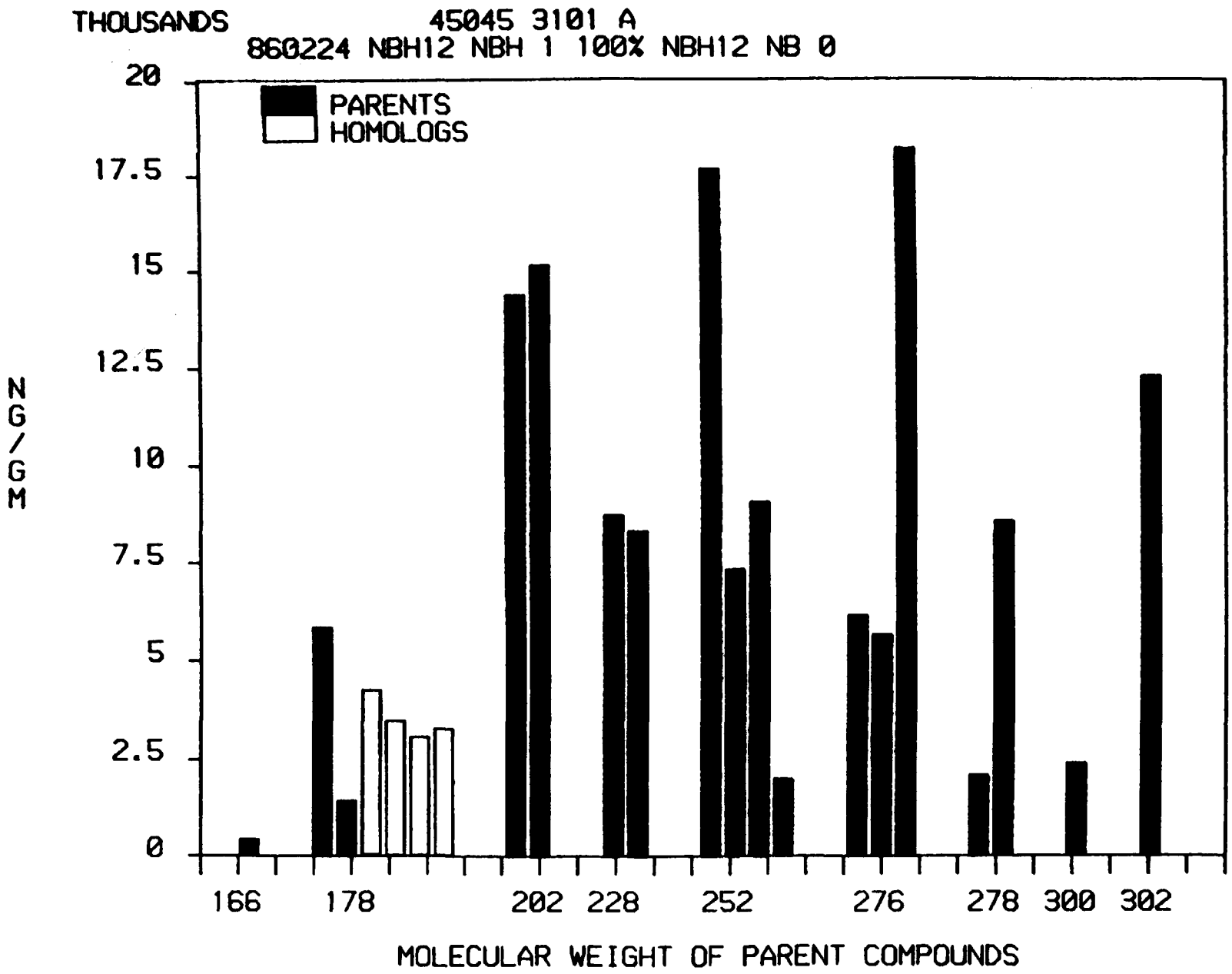
NBH-12 BARREL



NBH-12 BARREL

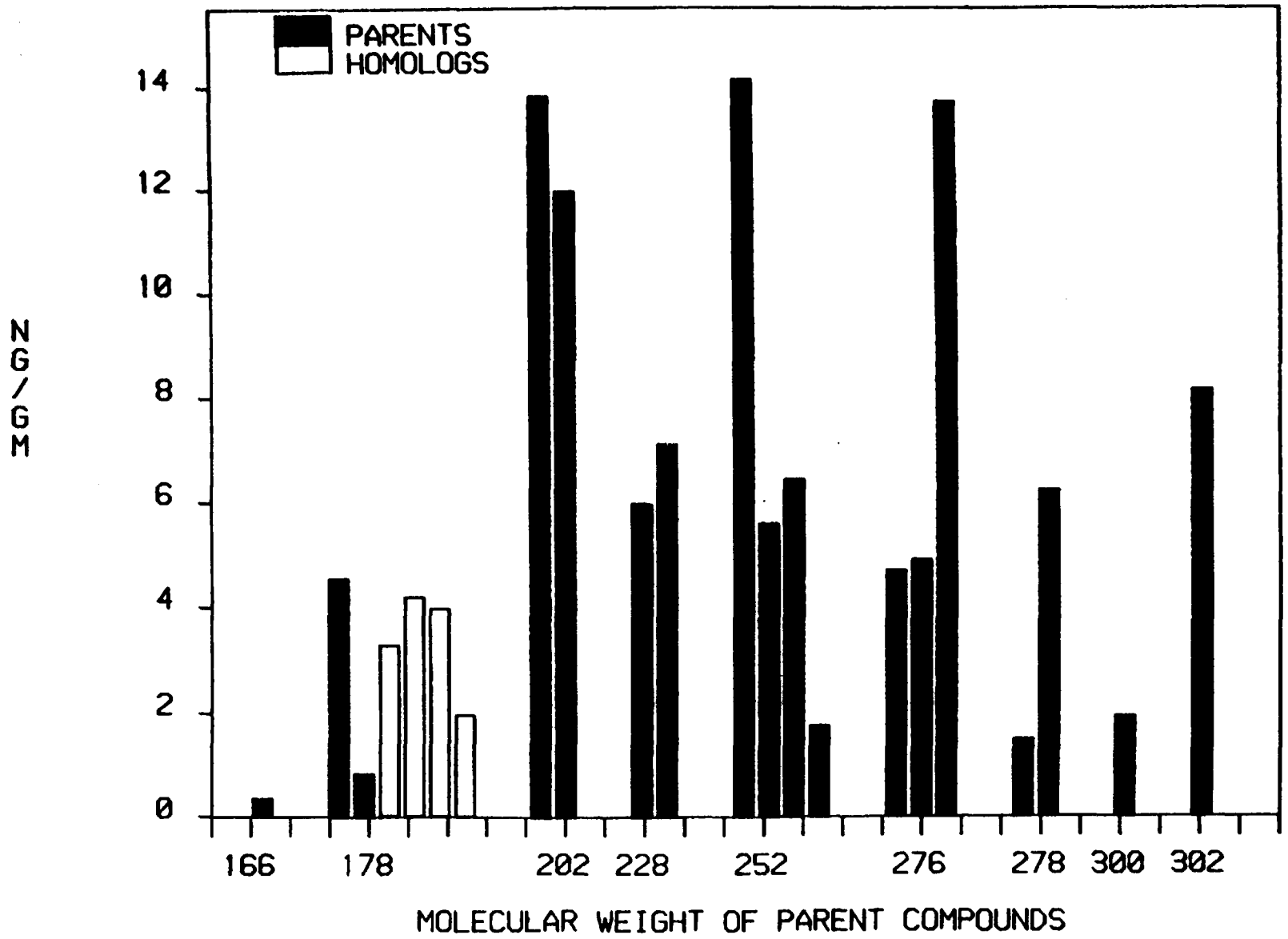


NBH-12 BARREL

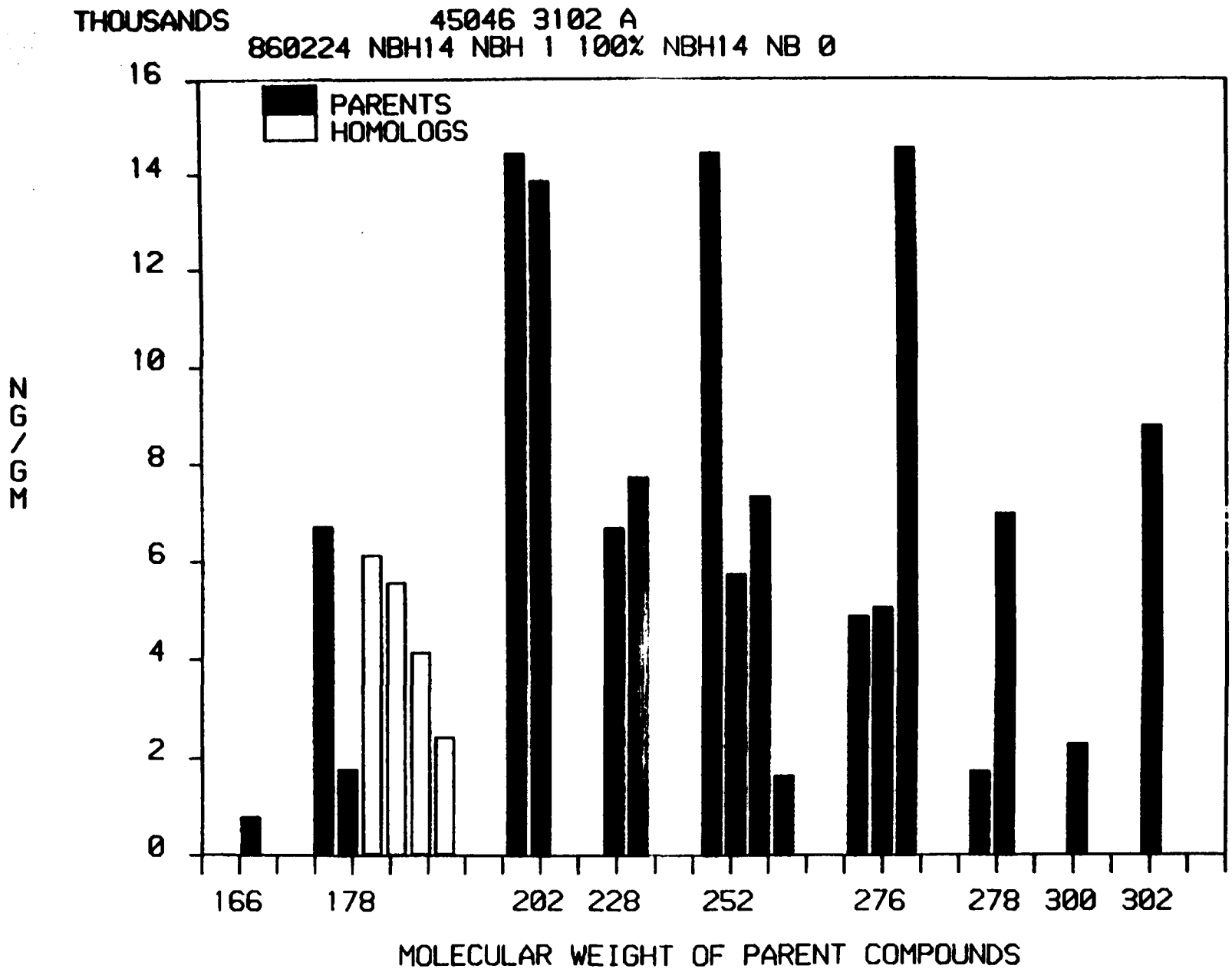


NBH-14 BARREL

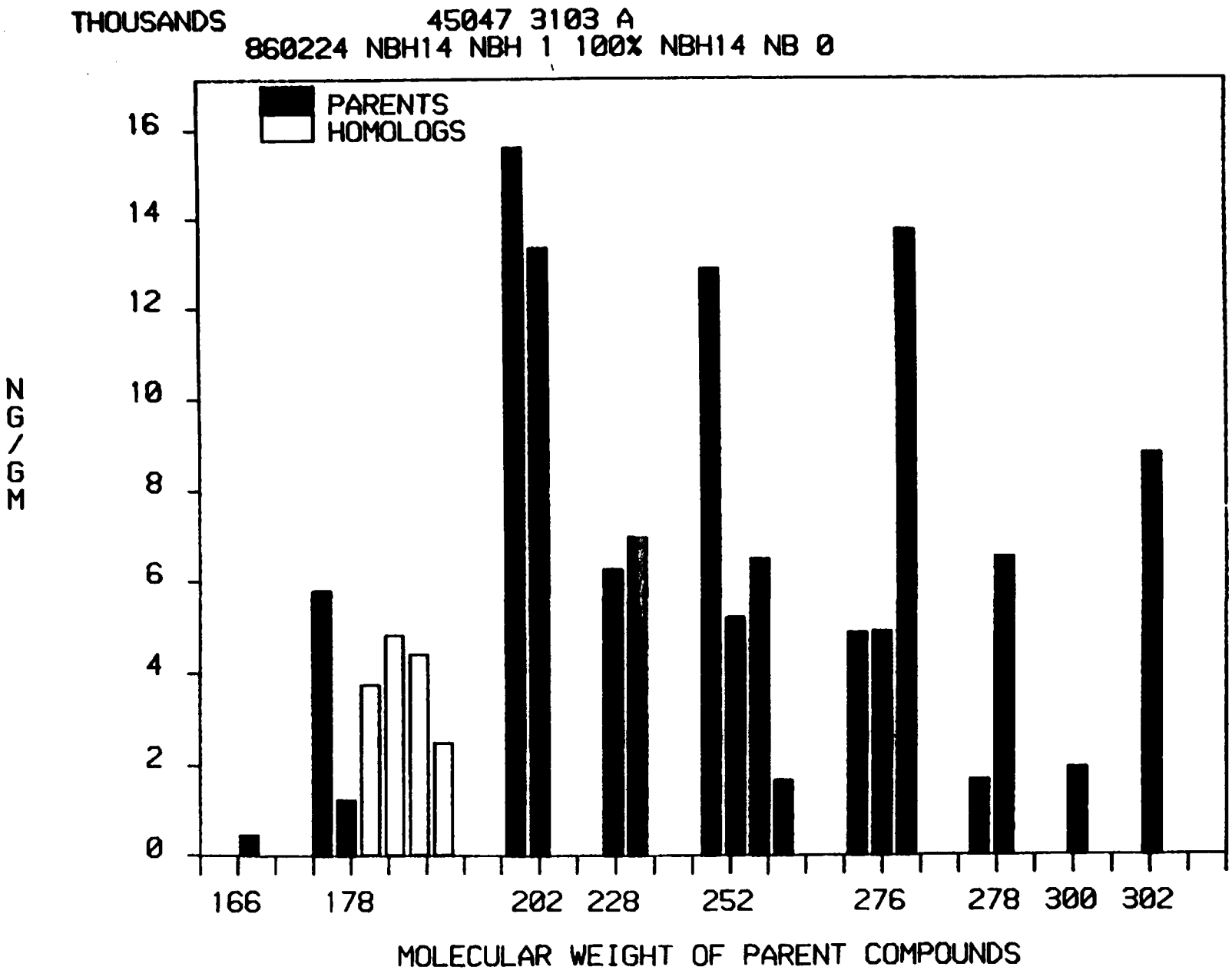
THOUSANDS 45048 3104 A
860224 NBH14 NBH 1 100% NBH14 NB 0



NBH-14 BARREL



NBH -14 PARREL



NBH1 -CORE

[illegible] GL261029 GL

[illegible] Run date : 10/28/86
Inj weight or volume (ml) : 5.570
Divisor factor : 1.000
[illegible] sample represented by 1ml extract 1.000

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] 1110.000 1110.000
[illegible] 5701. 6913.

[illegible]	AREA	[illegible]
[illegible]	934.	34.[illegible]
[illegible]	17885.	493.[illegible]
[illegible]	1981.	76.[illegible]
[illegible]	0.	570.[illegible]
[illegible]	9372.	208.[illegible]
[illegible]	9633.	254.[illegible]
[illegible]	6054.	209.[illegible]
[illegible]	0.	109.[illegible]
[illegible]	0.	912.[illegible]
[illegible]	39425.	966.[illegible]
[illegible]	43288	1028.[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[

NBH-2-CORE

[illegible] SEDIMENT

[illegible]

as read from list named : QL861028.QL

Run date : 10/28/86
Dry weight or volume (ml) : 5.010
Liquid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample [illegible]

Dry [illegible]

[illegible]

Internal [illegible]

actual nanograms added :	1110.000	1110.000
measured areas :	21771.	15747.

[illegible]	[illegible]	AREA	NG/GM
[illegible]	[illegible]	8203.	58.95755000
[illegible]	1097.	112006.	900.26640000
[illegible]	1105.	28197.	335.12870000
[illegible]	[illegible]	0.	1235.39500000
[illegible]	1179.	68857.	660.33420000
[illegible]	[illegible]	63370.	607.71830000
[illegible]	1235.	51005.	489.13550000
[illegible]	[illegible]	0.	290.08150000
[illegible]	[illegible]	0.	2047.27000000
[illegible]	[illegible]	211708.	1827.99500000
[illegible]	[illegible]	257275.	2148.37200000
[illegible]	[illegible]	485567.	4123.01200000
[illegible]	[illegible]	86960.	955.71040000
[illegible]	[illegible]	105452.	1158.90400000
[illegible]	[illegible]	217959.	2395.74200000
[illegible]	[illegible]	169330.	2144.13900000
[illegible]	[illegible]	61704.	869.93500000
[illegible]	[illegible]	5518.	1106.[illegible]900000
[illegible]	[illegible]	17852.	251.66420000
[illegible]	[illegible]	0.	4372.50800000
[illegible]	[illegible]	45500.	715.36040000
[illegible]	[illegible]	46960.	738.31490000
[illegible]	[illegible]	138350.	2173.17700000
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	11084.	299.[illegible]000
[illegible]	[illegible]	[illegible]	1320.[illegible]400000

[illegible] Sum and Centroid 16962.1200000 239.393

[illegible] Sum and Centroid 2047.2700000 208.797

NBH-3 - CORE

[illegible]

[illegible]

as read from list named . GL861028.GL

Run date : 10/28/86
Dry weight or volume (ml) : 4.040
Liquid factor : 1.000
Fraction [illegible] sample represented by the extract : 1.000

[illegible]

[illegible]

Mass Spec [illegible] . Went dry in vial while in storage set

[illegible]

actual nanograms added :	1110.000	1110.000
measured areas :	20195.	15993.

[illegible]	[illegible]	[illegible]	AREA	NG/GM
[illegible]	[illegible]	[illegible]	4207.	62.44266000
[illegible]	[illegible]	[illegible]	56998.	612.46290000
[illegible]	[illegible]	1104.	22160.	352.10280000
[illegible]	[illegible]	[illegible]	0.	964.36570000
[illegible]	[illegible]	[illegible]	70841.	908.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	67216.	861.77580000
[illegible]	[illegible]	[illegible]	0.	485.17330000
[illegible]	[illegible]	[illegible]	0.	3340.25000000
[illegible]	[illegible]	1251.	166222.	1847.12300000
[illegible]	[illegible]	[illegible]	220991.	2375.51300000
[illegible]	[illegible]	[illegible]	405628.	4432.64500000
[illegible]	[illegible]	[illegible]	84027.	1131.57600000
[illegible]	[illegible]	[illegible]	[illegible]	1401.34600000
[illegible]	[illegible]	[illegible]	[illegible]	2780.18600000
[illegible]	[illegible]	[illegible]	150524.	2327.39700000
[illegible]	[illegible]	[illegible]	57954.	997.54960000
[illegible]	[illegible]	[illegible]	[illegible]	1294.92800000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.	4900.12500000
[illegible]	[illegible]	[illegible]	42008.	806.42430000
[illegible]	[illegible]	[illegible]	43692.	828.77250000
[illegible]	[illegible]	[illegible]	130600.	2507.17900000
[illegible]	[illegible]	[illegible]	[illegible]	244.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	1125.68200000
[illegible]	[illegible]	[illegible]	[illegible]	331.09670000
[illegible]	[illegible]	[illegible]	62921.	1473.02900000

[illegible] Sum and Centroid 18576.9500000 241.981

[illegible] Sum and Centroid : 3340.2500000 209.872

NBH-4- CORE

[illegible] SEDIMENT

[illegible]

as read from file named : QL961028.QL

Run date : 10/28/96
Dry weight or volume (ml) : 4.010
Liquid factor : 1.000
[illegible] represented by the extract : 1.000

[illegible]

[illegible]

[illegible]

[illegible] nanograms added :	1110.000	1110.000
[illegible] area :	19287	12879

[illegible]		AREA	[illegible]
[illegible]	250	4629.	70.79728000
[illegible]	1097	61625.	698.57960000
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]

NBH5-CORE

[illegible] SEDIMENT

[illegible]

as read from list named : QL861028.QL

Run date : 10/28/86
Dry weight or volume (ml) : 4.360
Lipid factor : 1.000
[illegible] of the sample represented by the extract : 1.000

[illegible]

Dry [illegible]

[illegible] comment :

Internal [illegible]

actual nanograms added :	1110.000	1110.000
measured areas :	16707.	14320.

[illegible]	[illegible]	[illegible]	AREA	NG/GM
[illegible]	P[illegible]	95[illegible]	3805.	61.78267000
[illegible]	P1A	1097	37093.	446.42770000
[illegible]	[illegible]	[illegible]	11724.	208.65190000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.	334.59060000
[illegible]	[illegible]	[illegible]	0.	1858.11400000
[illegible]	P1[illegible]	1281.	117604.	1418.23100000
[illegible]	[illegible]	[illegible]	145241.	1694.29700000
[illegible]	[illegible]	[illegible]	270425.	3207.00500000
[illegible]	[illegible]	[illegible]	46233.	641.99760000
[illegible]	[illegible]	[illegible]	59[illegible]4.	824.33620000
[illegible]	[illegible]	[illegible]	116[illegible].	1419.44200000
[illegible]	[illegible]	[illegible]	[illegible]	1581.18300000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	835.47920000
[illegible]	[illegible]	[illegible]	[illegible]	178.[illegible]
[illegible]	[illegible]	[illegible]	0.	3311.92500000
[illegible]	[illegible]	[illegible]	27725.	550.77220000
[illegible]	[illegible]	[illegible]	29258.	581.23660000
[illegible]	[illegible]	[illegible]	84574.	1686.05800000
[illegible]	[illegible]	[illegible]	[illegible]	177.97960000
[illegible]	[illegible]	[illegible]	32[illegible].	717.77950000
[illegible]	[illegible]	[illegible]	[illegible]417.	224.57350000
[illegible]	[illegible]	[illegible]	40950.	976.52040000

[illegible] Centroid	12460.2000000	241.224
[illegible] Centroid	1858.1140000	211.219

NBH-6-CORE

SAMPLE : [illegible] SEDIMENT

[illegible] HANSEN [illegible]

as read from list named . QL861028.GL

Run date : 10/28/86
Dry weight or volume (ml) : 1.950
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

[illegible]-Sample comment :

Org. prep comments :

Mass Spec. comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	23514.	15848.

MW	DEBT	SCAN	AREA	NG/GM
[illegible]	P0S	951.	5962.	153.80480000
178.	P1A	1097.	78287.	1496.83400000
178.	P2B	1104.	12901.	364.73360000
178.	P0B	0.	0.	1861.56800000
178.	H1C	1178.	53919.	1230.02000000
178.	H2C	1263.	55123.	1257.48400000
178.	H3C	1335.	50118.	1143.30700000
178.	H4C	0.	0.	846.21630000
178.	H0S	0.	0.	4477.02700000
202.	P1A	1282.	149032.	3157.57200000
202.	P2B	1315.	172838.	3542.32300000
202.	P0B	1315.	326661.	6806.10500000
[illegible]	P1A	1502.	55142.	1547.04900000
[illegible]	P2B	1508.	73612.	2065.26400000
[illegible]	P0B	[illegible]	147510.	4138.53100000
[illegible]	P1A	[illegible]	123699.	3998.68400000
[illegible]	P2B	[illegible]	46635.	1678.28600000
[illegible]	P0B	[illegible]	55154.	1984.89200000
[illegible]	P1A	[illegible]	13205.	476.29300000
[illegible]	P0B	[illegible]	0.	8138.15200000
276.	P1A	1840.	35718.	1433.63700000
276.	P1B	1871.	35788.	1436.41100000
[illegible]	P0B	1871.	108284.	4346.21900000
[illegible]	P1A	1842.	11416.	501.70920000
[illegible]	P0B	1842.	47451.	2085.46400000
300.	P0B	2100.	12004.	578.25470000
302.	P0B	2027.	58787.	2832.41400000

PAH Parent Sum and Centroid :	30940.6100000	243.509
178 Homologs Sum and Centroid	4477.0270000	211.021

NBH-7-CORE

SAMPNUM : 45020 S3002A21 SEDIMENT

ID HANSEN NBH7

as read from list named : GL861028.QL

Run date : 10/28/86
Dry weight or volume (ml) : 1.470
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

GS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	18566.	16938.

MW	DESC	SCAN	AREA	NG/GM
166.	P0S	952.	3774.	163.57510000
178.	P1A	1097.	26924.	864.86280000
178.	P2B	1105.	5290.	251.27340000
178.	P0S	0.	0.	1116.13600000
178.	H1C	1174.	36633.	1404.02500000
178.	H2C	1263.	51327.	1967.16700000
178.	H3C	1335.	43999.	1686.30700000
178.	H4C	0.	0.	974.42290000
178.	H0S	0.	0.	6031.91800000
202.	P1A	1282.	110140.	3461.49700000
202.	P2B	1315.	113816.	3460.17100000
[illegible]	P0S	1315.	229935.	7106.43400000
228.	P1A	1502.	42099.	1465.94600000
228.	P2B	1508.	56450.	1965.66800000
228.	P0S	1508.	110323.	3841.60200000
252.	P1A	1659.	89117.	3575.45700000
252.	P2B	1695.	33618.	1501.60400000
252.	P0S	1701.	40300.	1800.06300000
[illegible]	[illegible]	1712.	9325.	416.50710000
[illegible]	P0S	[illegible]	0.	7293.62900000
276.	P1A	1839.	24485.	1219.74900000
276.	P1B	1871.	24725.	1231.70500000
276.	P0S	1871.	73988.	3685.80000000
[illegible]	P1A	1785.	37.	2.00245800
[illegible]	[illegible]	[illegible]	7369.	401.95460000
[illegible]	[illegible]	[illegible]	9511.	568.73510000
302.	P0S	2027.	38890.	2325.58100000

PAH Parent Sum and Centroid : 26503.4500000 240.617

178 Homologs Sum and Centroid : 6031.9180000 211.178

NBH-8 - COR

SAMPNUM : 45021 S3C02A21 SEDIMENT

NP HANSEN NBH3

as read from list named : GL861028.QL

Run date : 10/28/86
Dry weight or volume (ml) : 1.870
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments : MAY NOT HAVE RECEIVED REC STD. ON 24JAN86 AS

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	22410.	26574.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	1834.	51.76796000
178.	P1A	1097.	23263.	486.66940000
178.	P2B	1106.	2383.	73.70776000
178.	POS	0.	0.	560.37720000
178.	H1C	1178.	21310.	531.90700000
178.	H2C	1262.	24279.	606.02810000
178.	H3C	1334.	19407.	484.41140000
178.	H4C	0.	0.	518.68260000
178.	HOS	0.	0.	2141.02900000
202.	P1A	1281.	74050.	1384.57800000
202.	P2B	1314.	90663.	1639.82300000
202.	POS	1314.	169575.	3118.03700000
228.	P1A	1501.	37352.	651.70020000
228.	P2B	1507.	52256.	911.72310000
228.	POS	1507.	95750.	1670.58000000
252.	P1A	1659.	100478.	2019.88400000
252.	P2B	1694.	40602.	908.67530000
252.	P3B	1701.	48753.	1091.09700000
252.	P4B	1712.	10072.	225.42090000
252.	POS	0.	0.	4245.07800000
276.	P1A	1839.	32247.	804.90820000
276.	P1B	1870.	35000.	873.62450000
276.	POS	1870.	101434.	2531.83400000
278.	P1A	1841.	9816.	268.29640000
278.	POS	1841.	42185.	1152.96700000
300.	POS	2098.	12971.	388.63350000
302.	POS	2026.	55988.	1677.56100000

PAH Parent Sum and Centroid :	15396.8400000	248.841
178 Homologs Sum and Centroid :	2141.0290000	212.473

NBH-9-CORE

SAMPNUM : 45022 S3004A21 SEDIMENT

NT HANSEN NBH9

as read from list named : QL861028.QL

Run date : 10/28/86
Dry weight or volume (ml) : 2.250
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	11959.	12221.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	2656.	116.74640000
178.	P1A	1098.	40491.	1319.25100000
178.	P2B	1106.	6459.	311.20610000
178.	POS	0.	0.	1630.45800000
178.	H1C	1179.	27211.	1057.80200000
178.	H2C	1263.	27604.	1073.06000000
178.	H3C	1336.	19641.	763.50290000
178.	H4C	0.	0.	870.36740000
178.	HOS	0.	0.	3764.73200000
202.	P1A	1282.	84000.	2569.99300000
202.	P2B	1315.	112984.	3343.84100000
202.	POS	1315.	202347.	6088.04700000
228.	P1A	1502.	36554.	1152.60400000
228.	P2B	1508.	50167.	1581.83900000
228.	POS	1508.	101550.	3201.99500000
252.	P1A	1660.	89220.	3241.35500000
252.	P2B	1695.	35171.	1422.51300000
252.	P3B	1702.	42549.	1720.92100000
252.	P4B	1713.	9384.	379.52760000
252.	POS	0.	0.	6764.31600000
276.	P1A	1840.	26987.	1217.36500000
276.	P1B	1872.	27603.	1245.12500000
276.	POS	1872.	80339.	3624.02500000
278.	P1A	1842	8568.	424.20950000
278.	POS	1842.	35717.	1764.21600000
300.	POS	2101.	11520.	623.78690000
302.	POS	2028.	44645.	2417.47100000

PAH Parent Sum and Centroid : 26231.0600000 243.297

178 Homologs Sum and Centroid : 3764.7320000 211.379

NBH-10-CORE

SAMPNUM : 45023 S3005A22 SEDIMENT

NP HANSEN NBH10

as read from list named : QL861027.QL

Run date : 10/27/86
Dry weight or volume (ml) : 2.330
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	20193.	19205.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	952.	4417.	111.96400000
178.	P1A	1097.	58492.	1146.85800000
178.	P2B	1105.	9452.	258.35990000
178.	POS	0.	0	1405.[illegible]
178.	H1C	1179.	[illegible]	
178.	H2C	1263.	[illegible]	
178.	H3C	1335.	40582.	926.64870000
178.	H4C	0.	0.	713.74340000
178.	HOS	0.	0.	3244.39400000
202.	P1A	1282.	141048.	2513.40600000
202.	P2B	1315.	163149.	2814.26200000
202.	POS	1315.	308328.	5404.97300000
228.	P1A	1503.	63410.	1213.60600000
228.	P2B	1508.	73306.	1403.01100000
228.	POS	1508.	156854.	3002.02900000
252.	P1A	1660.	136570.	2934.97700000
252.	P2B	1696.	50498.	1199.16800000
252.	P3B	1702.	61040.	1449.51300000
252.	P4B	1713.	15396.	365.60010000
252.	POS	0.	0.	5949.25800000
276.	P1A	1840.	41355.	1087.71200000
276.	P1B	1872.	40610.	1068.11700000
276.	POS	1840.	120610.	3172.26300000
278.	P1A	1842.	12245.	344.06980000
278.	POS	1842.	45861.	1288.61700000
300.	POS	2101.	14706.	455.67850000
302.	POS	2027.	68325.	2117.07700000

PAH Parent Sum and Centroid : 22907.0700000 242.459

178 Homologs Sum and Centroid : 3244.3940000 212.665

NBH12-CORE

SAMRNUM : 45027 S3010A22 SEDIMENT

NB HANSEN NBH12

as read from list named : QL861027.QL

Run date : 10/27/86
Dry weight or volume (ml) : 1.200
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments : CENTRIFUGE TUBE CRACKED AFTER 2ND EXTRACTION ACETONITRILE. LOST 5-10MLS OF SAMPLE.

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	5010.	4101.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	8096.	1606.06600000
178.	P1A	1097.	109388.	16784.95000000
178.	P2B	1105.	22147.	4737.33200000
178.	POS	0.	0.	21522.23000000
178.	H1C	1179.	38268.	6838.34000000
178.	H2C	1262.	21258.	4352.75000000
178.	H3C	1326.	17229.	3078.84700000
178.	H4C	0.	0.	2766.82700000
178.	HCS	0.	0.	17036.77000000
202.	P1A	1282.	138468.	20472.73000000
202.	P2B	1315.	135313.	19366.48000000
202.	POS	1282.	276903.	40275.33000000
228.	P1A	1502.	48190.	8385.38300000
228.	P2B	1508.	49704.	8648.86300000
228.	POS	1502.	107195.	18652.57000000
252.	P1A	1659.	80048.	15640.21000000
252.	P2B	1695.	28329.	6116.11300000
252.	P3B	1702.	39034.	8427.40600000
252.	P4B	1712.	9532.	2057.96200000
252.	POS	0.	0.	32241.70000000
276.	P1A	1840.	22554.	5393.39100000
276.	P1B	1871.	22555.	5393.48800000
276.	POS	1871.	70018.	16743.23000000
278.	P1A	1842.	7336.	1873.99800000
278.	POS	1842.	31459.	8036.70700000
300.	POS	2099.	7755.	2184.67700000
302.	POS	2027.	38752.	10916.93000000

PAH Parent Sum and Centroid :	152179.5000000	232.742
178 Homologs Sum and Centroid :	17036.7700000	207.458

NBH13 - CORE

SAMPNUM : 45025 S3008A21 SEDIMENT

NB HANSEN NBH13

as read from list named : GL861027.GL

Run date : 10/27/86
Dry weight or volume (ml) : 0.510
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments : F2 WENT DRY IN ROUND BOTTOM FLASK BEFORE ADDI

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	20045.	15433.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	3738.	436.04810000
178.	P1A	1098.	53077.	4789.60500000
178.	P2B	1106.	6847.	861.32400000
178.	[illegible]	[illegible]	0.	5650.93000000
[illegible]	[illegible]	[illegible]	[illegible]	2052.28400000
[illegible]	[illegible]	[illegible]	[illegible]	1815.66200000
178.	H3C	1336.	24335.	2557.36100000
178.	H4C	0.	0.	2346.93000000
178.	HOS	0.	0.	8772.23800000
202.	P1A	1282.	94810.	8456.54300000
202.	P2B	1316.	97508.	8419.03500000
202.	POS	1316.	192694.	16907.93000000
228.	P1A	1503.	34970.	3804.93000000
228.	P2B	1509.	39971.	4349.07800000
228.	POS	1503.	85569.	9310.41400000
252.	P1A	1660.	76357.	9328.87100000
252.	P2B	1696.	27839.	3758.33400000
252.	P3B	1702.	32790.	4426.64500000
252.	P4B	1713.	8351.	1127.42100000
252.	POS	0.	0.	18641.27000000
276.	P1A	1841.	21074.	3151.08600000
276.	P1B	1872.	21729.	3249.02600000
276.	POS	1872.	62613.	9362.34800000
278.	P1A	1843.	6585.	1051.97000000
278.	POS	1843.	27729.	4429.51600000
300.	POS	2101.	7810.	1375.78200000
302.	POS	2028.	35613.	6273.33200000

PAH Parent Sum and Centroid : 72387.5600000 240.880

178 Homologs Sum and Centroid : 8772.2380000 214.297

NBH-14-CORE

SAMPNUM : 45026 S3009A21 SEDIMENT

NB HANSEN NBH14

as read from list named : QL861027.QL

Run date : 10/27/86
Dry weight or volume (ml) : 0.350
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	16561.	12717.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	2665.	548.26440000
178.	P1A	1097.	35461.	5643.80900000
178.	P2B	1105.	6657.	1476.89200000
178.	POS	0.	0.	7120.69900000
178.	H1C	1175.	18289.	3389.72500000
178.	H2C	1263.	25159.	4663.15600000
178.	H3C	1336.	24535.	4547.53100000
178.	H4C	0.	0.	2681.07700000
178.	HOS	0.	0.	15281.49000000
202.	P1A	1282.	100045.	15755.73000000
202.	P2B	1315.	88668.	13517.50000000
202.	POS	1282.	191309.	29639.00000000
228.	P1A	1503.	29205.	5619.26600000
228.	P2B	1509.	34484.	6634.82000000
228.	POS	1503.	72866.	14019.81000000
252.	P1A	1660.	63114.	13635.60000000
252.	P2B	1696.	22454.	5360.48000000
252.	P3B	1702.	26964.	6437.09800000
252.	P4B	1713.	6675.	1593.43400000
252.	POS	0.	0.	27026.61000000
276.	P1A	1841.	18461.	4881.27700000
276.	P1B	1872.	18304.	4839.76600000
276.	POS	1841.	54311.	14360.51000000
278.	P1A	1843.	5890.	1663.90200000
278.	POS	1843.	22602.	6384.40600000
300.	POS	2101.	5746.	1789.98000000
302.	POS	2028.	28084.	8748.08200000

PAH Parent Sum and Centroid :	109637.4000000	239.609
178 Homologs Sum and Centroid :	15281.4900000	211.973

REF

SAMPNUM : 45028 S3082A22 SEDIMENT

NB HANSEN REFS NBH 1 860225 100% REFS

as read from list named : QL861023.QL

Run date : 10/23/86
Dry weight or volume (ml) : 5.620
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	222.000	222.000
measured areas :	12629.	9889.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	2452.	8.34671800
178.	P1A	1098.	50784.	131.09980000
178.	P2B	1106.	4037.	13.43336000
178.	POS	0.	0.	144.53320000
178.	H1C	1179.	31920.	92.80315000
178.	H2C	1263.	28983.	84.26640000
178.	H3C	1335.	18126.	52.70047000
178.	H4C	0.	0.	26.64981000
178.	HOS	0.	0.	256.41990000
202.	P1A	1282.	126871.	323.39840000
202.	P2B	1315.	144098.	358.93430000
202.	POS	1315.	278452.	701.59720000
228.	P1A	1502.	40852.	127.87720000
228.	P2B	1508.	65588.	205.30730000
228.	POS	1508.	117800.	368.74510000
252.	P1A	1660.	137771.	512.85520000
252.	P2B	1695.	53202.	223.19250000
252.	P3B	1702.	58649.	246.04440000
252.	P4B	1712.	16394.	68.77718000
252.	POS	0.	0.	1050.86900000
276.	P1A	1840.	42345.	203.77730000
276.	P1B	1871.	43896.	211.24500000
276.	POS	1871.	119759.	576.32280000
278.	P1A	1842.	9216.	53.58636000
278.	POS	1842.	37008.	215.17870000
300.	POS	2100.	10709.	63.77379000
302.	POS	2027.	26440.	157.46270000

PAH Parent Sum and Centroid :	3286.8290000	244.399
178 Homologs Sum and Centroid :	256.4199000	206.720

REF

SAMPNUM : 45029 S3083A21 SEDIMENT

NP HANSEN REFS NBH 1 860225 100% REFS

as read from list named : QL861023.QL

Run date : 10/23/86
Dry weight or volume (ml) : 5.900
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	222.000	222.000
measured areas :	8032.	7622.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	952.	2049.	10.44674000
178.	P1A	1097.	42363.	163.79120000
178.	P2B	1105.	6460.	32.19167000
178.	POS	0.	0.	195.98280000
178.	H1C	1178.	32880.	143.17300000
178.	H2C	1262.	37348.	162.63080000
178.	H3C	1335.	24799.	107.98480000
178.	H4C	0.	0.	40.71620000
178.	HOS	0.	0.	454.50490000
202.	P1A	1281.	112144.	398.76440000
202.	P2B	1314.	124937.	434.12330000
202.	POS	1314.	244551.	859.55130000
228.	P1A	1502.	43872.	169.71840000
228.	P2B	1507.	63674.	246.32080000
228.	POS	1507.	118066.	456.73610000
252.	P1A	1659.	117164.	539.00240000
252.	P2B	1695.	45580.	236.31340000
252.	P3B	1701.	54904.	284.65210000
252.	P4B	1712.	14906.	77.27832000
252.	POS	0.	0.	1137.24600000
276.	P1A	1839.	37365.	222.22080000
276.	P1B	1871.	38350.	228.07890000
276.	POS	1871.	103866.	617.71880000
278.	P1A	1842.	8519.	61.21455000
278.	POS	1842.	37740.	271.18750000
300.	POS	2100.	10537.	77.55150000
302.	POS	2027.	33025.	243.06060000

PAH Parent Sum and Centroid :	3869.4820000	243.836
178 Homologs Sum and Centroid :	454.5049000	207.424

REF

SAMPNUM : 45030 S3084A21 SEDIMENT

NB HANSEN REFS NBH 1 860225 100% REF

as read from list named : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 6.480
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	222.000	222.000
measured areas :	10463.	8382.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	2490.	8.84214100
178.	P1A	1097.	47822.	128.15970000
178.	P2B	1106.	4325.	16.80794000
178.	POS	0.	0.	144.96760000
178.	H1C	1179.	32546.	103.24530000
178.	H2C	1263.	28043.	88.95865000
178.	H3C	1335.	18124.	57.49438000
178.	H4C	0.	0.	24.49954000
178.	HOS	0.	0.	274.19800000
202.	P1A	1281.	106530.	287.56450000
202.	P2B	1315.	125627.	324.34770000
202.	POS	1315.	237464.	626.73750000
228.	P1A	1502.	38602.	123.18110000
228.	P2B	1508.	58166.	185.61140000
228.	POS	1508.	106246.	339.03960000
252.	P1A	1659.	113837.	417.02440000
252.	P2B	1695.	43842.	177.98200000
252.	P3B	1701.	51921.	210.77820000
252.	P4B	1712.	14987.	60.83992000
252.	POS	0.	0.	866.62430000
276.	P1A	1839.	37612.	166.71420000
276.	P1B	1871.	38959.	172.68150000
276.	POS	1839.	109710.	486.28150000
278.	P1A	1842.	8176.	40.17073000
278.	POS	1842.	36494.	179.31060000
300.	POS	2099.	11321.	59.44421000
302.	POS	2026.	32354.	169.87760000

PAH Parent Sum and Centroid :	2881.1250000	243.919
178 Homologs Sum and Centroid :	274.1980000	206.166

NBH-5 -BARREL

SAMPNUM : 45032 32086A21 SEDIMENT

NB HANSEN NBH5 NBH 1 860225 100% NBH5

as read from list named : QL861023.QL

Run date : 10/23/86
Dry weight or volume (ml) : 3.780
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	18406.	18815.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	2090.	36.28186000
178.	P1A	1098.	28363.	373.46480000
178.	P2B	1106.	6319.	107.24850000
[illegible]	[illegible]	[illegible]	0.	480.71340000
[illegible]	[illegible]	[illegible]	35742.	381.74850000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
178.	H3C	1336.	33200.	492.03400000
178.	H4C	0.	0.	345.13500000
178.	H0S	0.	0.	1700.01100000
202.	P1A	1282.	87950.	1038.54200000
202.	P2B	1316.	117351.	1354.11600000
202.	POS	1316.	208826.	2437.43900000
228.	P1A	1503.	45227.	553.16820000
228.	P2B	1509.	54822.	670.51340000
228.	POS	1509.	110016.	1345.58900000
252.	P1A	1660.	110242.	1603.46600000
252.	P2B	1696.	41597.	681.84250000
252.	P3B	1702.	46157.	756.59400000
252.	P4B	1713.	10719.	175.70560000
252.	POS	0.	0.	3217.60800000
276.	P1A	1841.	29927.	562.72340000
276.	P1B	1872.	32506.	611.21700000
276.	POS	1872.	93030.	1749.27500000
278.	P1A	1843.	7326.	166.43350000
278.	POS	1843.	33623.	763.85180000
300.	POS	2101.	10322.	240.19590000
302.	POS	2028.	28196.	656.11280000

PAH Parent Sum and Centroid : 10927.0700000 244.067

178 Homologs Sum and Centroid : 1700.0110000 212.595

NBH6- BARREL

SAMPNUM : 45034 S3088A21 SEDIMENT

NP HANSEN NBH6 NBH 1 860225 100% NBH6

as read from list named : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 1.940
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	16452.	15288.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	951.	4054.	152.88740000
178.	P1A	1096.	58610.	1668.26100000
178.	P2B	1104.	9715.	400.98410000
178.	POS	0.	[illegible]	[illegible]
178.	[illegible]	[illegible]	[illegible]	[illegible]
178.	[illegible]	[illegible]	[illegible]	[illegible]
178.	H3C	1334.	35423.	1193.50200000
178.	H4C	0.	0.	1306.15100000
178.	HOS	0.	0.	4860.33200000
202.	P1A	1281.	126192.	3410.37300000
202.	P2B	1314.	154451.	3992.32200000
202.	POS	1314.	282751.	7471.34800000
228.	P1A	1501.	62479.	1825.49400000
228.	P2B	1507.	79471.	2321.98100000
228.	POS	1507.	150209.	4388.79300000
252.	P1A	1659.	152412.	5112.20700000
252.	P2B	1694.	58619.	2178.86800000
252.	P3B	1701.	69950.	2600.04300000
252.	P4B	1711.	13759.	511.43870000
252.	POS	0.	0.	10402.55000000
276.	P1A	1839.	46204.	1875.13500000
276.	P1B	1870.	47669.	1934.57400000
276.	POS	1839.	134557.	5460.84000000
278.	P1A	1841.	13159.	591.98540000
278.	POS	1841.	52737.	2372.51700000
300.	POS	2098.	14603.	702.04690000
302.	POS	2026.	56985.	2739.55400000

PAH Parent Sum and Centroid :	35759.7900000	244.121
178 Homologs Sum and Centroid :	4860.3320000	213.708

NBH6- BARREL

SAMPNUM : 45035 S3090A21 SEDIMENT

NB HANSEN NBH6 NBH 1 860225 100% NBH6

as read from list named : GL861024.GL

Run date : 10/24/86
Dry weight or volume (ml) : 1.620
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	17442.	16161.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	951.	3967.	168.95840000
178.	P1A	1096.	43241.	1390.29600000
178.	P2B	1103.	6832.	318.53370000
178.	POS	0.	0.	1708.83000000
178.	H1C	1177.	26661.	1014.71100000
178.	H2C	1262.	28261.	1075.60600000
178.	H3C	1334.	32103.	1221.82500000
178.	H4C	0.	0.	1092.10600000
178.	HOS	0.	0.	4404.24600000
202.	P1A	1280.	92453.	2825.46200000
202.	P2B	1313.	121470.	3550.59000000
202.	POS	1313.	219761.	6566.62100000
228.	P1A	1501.	43684.	1445.92500000
228.	P2B	1506.	61596.	2038.80600000
228.	POS	1506.	114613.	3793.63000000
252.	P1A	1658.	113891.	4327.63700000
252.	P2B	1694.	43090.	1814.42800000
252.	P3B	1700.	51589.	2172.30600000
252.	P4B	1711.	11257.	474.02000000
252.	POS	0.	0.	8788.39100000
276.	P1A	1838.	33677.	1548.29400000
276.	P1B	1870.	35276.	1621.84100000
276.	POS	1870.	109398.	5029.61300000
278.	P1A	1840.	9994.	509.36600000
278.	POS	1840.	43207.	2202.01600000
300.	POS	2098.	12657.	689.29790000
302.	POS	2025.	57203.	3115.39200000

PAH Parent Sum and Centroid :	32062.7500000	245.964
178 Homologs Sum and Centroid :	4404.2460000	213.602

NBH-6 -BARREL

SAMPNUM : 45036 S3091A21 SEDIMENT

NP HANSEN NBH6 NBH 1 860225 100% NBH6

as read from list named : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 1.800
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	18268.	19956.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	951.	3112.	113.89630000
178.	P1A	1096.	56838.	1570.36500000
178.	P2B	1104.	9147.	366.49270000
178.	POS	0.	0.	1936.85800000
178.	H1C	1178.	34981.	1144.04200000
178.	H2C	1262.	35255.	1153.01000000
178.	H3C	1334.	43154.	1411.33300000
178.	H4C	0.	0.	1236.89400000
178.	HOS	0.	0.	4945.28100000
202.	P1A	1281.	134935.	3338.55100000
202.	P2B	1314.	164975.	3904.05700000
202.	POS	1314.	308065.	7452.47700000
228.	P1A	1501.	65062.	1569.62900000
228.	P2B	1507.	85905.	2072.45800000
228.	POS	1507.	172443.	4160.19500000
252.	P1A	1659.	151424.	4193.75800000
252.	P2B	1694.	56511.	1734.37400000
252.	P3B	1701.	67925.	2084.70700000
252.	P4B	1712.	16038.	492.23100000
252.	POS	0.	0.	8505.07000000
276.	P1A	1839.	43440.	1455.67400000
276.	P1B	1871.	45265.	1516.83300000
276.	POS	1839.	125897.	4218.78900000
278.	P1A	1841.	12798.	475.38550000
278.	POS	1841.	51662.	1919.06400000
300.	POS	2099.	15404.	611.46800000
302.	POS	2026.	64621.	2565.16100000

PAH Parent Sum and Centroid :	31482.9800000	241.936
178 Homologs Sum and Centroid :	4945.2810000	213.760

NBH-7 BARREL

SAMPNUM : 45037 S3092A21 SEDIMENT

NP HANSEN NBH7 NBH 1 860225 100% NBH7

as read from list named : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 1.350
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	10477.	11918.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	951.	2563.	218.07270000
178.	P1A	1096.	19872.	1276.42300000
178.	P2B	1104.	5307.	494.29270000
178.	POS	0.	0.	1770.71600000
178.	H1C	1173.	21027.	1598.73900000
178.	H2C	1262.	27783.	2112.39600000
178.	H3C	1334.	23130.	1758.60600000
178.	H4C	0.	0.	1172.83100000
178.	HOS	0.	0.	6642.57000000
202.	P1A	1280.	76647.	4348.72300000
202.	P2B	1313.	83639.	4538.82000000
202.	POS	1280.	163744.	9083.59800000
228.	P1A	1501.	35243.	1898.15900000
228.	P2B	1506.	47285.	2546.74000000
228.	POS	1506.	93595.	5040.93800000
252.	P1A	1658.	75485.	4667.22300000
252.	P2B	1693.	26984.	1848.85700000
252.	P3B	1700.	35159.	2409.04500000
252.	P4B	1711.	7401.	507.11060000
252.	POS	0.	0.	9432.23800000
276.	P1A	1838.	21276.	1591.63000000
276.	P1B	1869.	22848.	1709.26200000
276.	POS	1838.	68343.	5112.73400000
278.	P1A	1840.	6449.	534.83280000
278.	POS	1840.	27777.	2303.51600000
300.	POS	2098.	7069.	626.42720000
302.	POS	2025.	33675.	2984.23300000

PAH Parent Sum and Centroid :	36572.4700000	242.073
178 Homologs Sum and Centroid :	6642.5700000	211.281

NBH-7 BARREL

SAMPNUM : 45039 S3094A21 SEDIMENT

NP HANSEN NBH7 NBH 1 860225 100% NBH7

as read from list named : GL861024.GL

Run date : 10/24/86
Dry weight or volume (ml) : 1.330
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	16272.	12851.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	3075.	171.02810000
178.	P1A	1097.	37017.	1553.93100000
178.	P2B	1105.	6772.	412.22710000
178.	POS	0.	0.	1966.15800000
178.	H1C	1174.	29028.	1442.44300000
178.	H2C	1262.	35952.	1786.50400000
178.	H3C	1334.	26489.	1316.25300000
178.	H4C	0.	0.	780.40090000
178.	HOS	0.	0.	5325.60200000
202.	P1A	1281.	94478.	4018.63300000
202.	P2B	1314.	96744.	3935.83300000
202.	POS	1281.	197002.	8192.99600000
228.	P1A	1501.	29644.	1502.98900000
228.	P2B	1507.	46502.	2357.67200000
228.	POS	1507.	83077.	4212.05100000
252.	P1A	1659.	70063.	4077.99000000
252.	P2B	1694.	25858.	1667.81500000
252.	P3B	1701.	29961.	1932.47700000
252.	P4B	1712.	6840.	441.15090000
252.	POS	0.	0.	8119.43400000
276.	P1A	1839.	18980.	1336.66900000
276.	P1B	1870.	19512.	1374.12000000
276.	POS	1870.	59019.	4156.34000000
278.	P1A	1841.	5261.	410.71920000
278.	POS	1841.	25562.	1995.55500000
300.	POS	2098.	6722.	560.78030000
302.	POS	2026.	30151.	2515.25700000

PAH Parent Sum and Centroid :	31889.6000000	240.503
178 Homologs Sum and Centroid :	5325.6020000	209.771

NBH-8 - BARREL

SAMPNUM : 45040 S3095A21 SEDIMENT

NB HANSEN NBH8 NBH 1 860225 100% NBH8

as read from list named : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 1.840
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	21371.	16197.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	951.	3999.	122.39450000
178.	P1A	1097.	60909.	1407.21900000
178.	P2B	1104.	10557.	353.67630000
178.	POS	0.	0.	1760.89600000
178.	H1C	1178.	49692.	[illegible]
178.	H2C	1263.	43172.	[illegible]
178.	H3C	1335.	27100.	741.12940000
178.	H4C	0.	0.	758.93850000
178.	HOS	0.	0.	4039.71000000
202.	P1A	1281.	114904.	2737.33800000
202.	P2B	1315.	171853.	3915.75200000
202.	POS	1315.	302387.	7043.38300000
228.	P1A	1502.	49061.	1426.57600000
228.	P2B	1508.	75628.	2199.07500000
228.	POS	1508.	136384.	3965.73400000
252.	P1A	1660.	134509.	4490.05900000
252.	P2B	1696.	53803.	1990.25800000
252.	P3B	1702.	64114.	2371.68800000
252.	P4B	1713.	12507.	462.64530000
252.	POS	0.	0.	9314.64800000
276.	P1A	1840.	41757.	1686.53600000
276.	P1B	1872.	43585.	1760.36700000
276.	POS	1872.	129483.	5229.70300000
278.	P1A	1842.	11586.	518.74100000
278.	POS	1842.	50513.	2261.59200000
300.	POS	2100.	14379.	687.93730000
302.	POS	2027.	62982.	3013.33400000

PAH Parent Sum and Centroid :	33399.6300000	245.408
178 Homologs Sum and Centroid :	4039.7100000	209.119

NBH-8 -BARREL

SAMPNUM : 45041 S3096A21 SEDIMENT

NP HANSEN NBH8 NBH 1 860225 100% NBH8

as read from list named : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 1.810
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments : PF50 WENT DRY IN ROUND BOTTOM FLASK.

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	15957.	13849.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	951.	3349.	139.54290000
178.	P1A	1096.	42727.	1343.98900000
178.	P2B	1104.	7639.	348.46700000
178.	POS	0.	0.	1692.45600000
178.	H1C	1177.	32285.	1202.10100000
178.	H2C	1262.	28339.	1055.19000000
178.	H3C	1334.	18617.	693.19580000
178.	H4C	0.	0.	767.95070000
178.	HOS	0.	0.	3718.43700000
202.	P1A	1280.	79484.	2437.64300000
202.	P2B	1314.	116048.	3404.03100000
202.	POS	1314.	200276.	6005.44100000
228.	P1A	1501.	37088.	1282.14200000
228.	P2B	1507.	55986.	1935.45500000
228.	POS	1507.	100617.	3478.33800000
252.	P1A	1659.	108186.	4293.50400000
252.	P2B	1694.	41760.	1836.56800000
252.	P3B	1701.	49897.	2194.39900000
252.	P4B	1711.	9327.	410.19800000
252.	POS	0.	0.	8734.66800000
276.	P1A	1839.	33364.	1602.06400000
276.	P1B	1870.	35936.	1725.56600000
276.	POS	1870.	103430.	4966.50400000
278.	P1A	1841.	8734.	464.91110000
278.	POS	1841.	40458.	2153.54000000
300.	POS	2098.	11959.	680.22530000
302.	POS	2025.	53776.	3058.89100000

PAH Parent Sum and Centroid :	30909.6100000	246.817
178 Homologs Sum and Centroid :	3718.4370000	209.867

NBH-8 -BARREL

SAMPNUM : 45042 S3098A21 SEDIMENT

NP HANSEN NBH8 NBH 1 860225 100% NBH8

as read from list named : QL861024.GL

Run date : 10/24/86
Dry weight or volume (ml) : 1.650
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	18635.	13104.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	949.	3684.	144.18920000
178.	P1A	1095.	44008.	1300.29300000
178.	P2B	1103.	6538.	280.14600000
178.	P3B	[illegible]	[illegible]	1580.43900000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]4200000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]4.62000000
178.	H3C	1334.	19348.	676.69970000
178.	H4C	0.	0.	666.99410000
178.	HOS	0.	0.	3546.05500000
202.	P1A	1280.	79357.	2498.50700000
202.	P2B	1313.	115045.	3464.39700000
202.	POS	1313.	199979.	6156.08200000
228.	P1A	1501.	33460.	1341.04400000
228.	P2B	1506.	47460.	1902.16800000
228.	POS	1506.	87789.	3518.51800000
252.	P1A	1658.	87173.	4010.94300000
252.	P2B	1694.	35561.	1813.15600000
252.	P3B	1700.	40729.	2076.66100000
252.	P4B	1711.	8720.	444.60280000
252.	POS	0.	0.	8345.35900000
276.	P1A	1838.	27644.	1538.93700000
276.	P1B	1870.	31782.	1769.34600000
276.	POS	1870.	86974.	4841.91400000
278.	P1A	1840.	7811.	482.00340000
278.	POS	1840.	37535.	2316.34400000
300.	POS	2098.	10011.	660.21390000
302.	POS	2025.	46427.	3061.70800000

PAH Parent Sum and Centroid :	30624.7700000	246.763
178 Homologs Sum and Centroid :	3546.0550000	209.328

NBH-12 -BARREL

SAMPNUM : 45043 S3099A21 SEDIMENT

NP HANSEN NBH12 NBH 1 860225 100% NBH12

as read from list named : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 0.340
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment : Dry in vial

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	12360.	15120.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	952.	877.	251.03780000
178.	P1A	1096.	26968.	5830.05900000
178.	P2B	1104.	3936.	1233.91900000
178.	POS	0.	0.	7063.97700000
178.	H1C	1173.	15276.	3909.16600000
178.	H2C	1261.	12557.	3213.46900000
178.	H3C	1334.	14196.	3632.69000000
178.	H4C	0.	0.	4523.59000000
178.	HOS	0.	0.	15278.92000000
202.	P1A	1280.	76740.	14311.21000000
202.	P2B	1313.	82708.	14752.54000000
202.	POS	1313.	161697.	29483.70000000
228.	P1A	1500.	30980.	5222.40200000
228.	P2B	1506.	38316.	6459.04700000
228.	POS	1506.	79176.	13346.82000000
252.	P1A	1658.	64225.	12428.84000000
252.	P2B	1693.	22867.	4903.95700000
252.	P3B	1700.	28161.	6039.18000000
252.	P4B	1711.	7593.	1628.34000000
252.	POS	0.	0.	25000.32000000
276.	P1A	1838.	18256.	4274.52000000
276.	P1B	1869.	18432.	4315.70700000
276.	POS	1838.	53022.	12414.85000000
278.	P1A	1840.	5450.	1414.66800000
278.	POS	1840.	24106.	6256.97700000
300.	POS	2098.	7300.	2024.88200000
302.	POS	2025.	32422.	8992.83200000

PAH Parent Sum and Centroid : 104835.4000000 239.300

178 Homologs Sum and Centroid : 15278.9200000 214.037

NBH-12 -BARREL

SAMPNUM : 45044 S3100A21 SEDIMENT

NP HANSEN NBH12 NBH 1 860225 100% NBH12

as read from list named : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 0.460
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	17508.	14653.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	952.	2346.	350.62920000
178.	P1A	1097.	33364.	3763.62500000
178.	P2B	1105.	2597.	424.80520000
178.	POS	0.	0.	4188.43000000
178.	H1C	1174.	12894.	1721.76800000
178.	H2C	1262.	10590.	1414.03600000
178.	H3C	1334.	12458.	1663.48200000
178.	H4C	0.	0.	1727.88700000
178.	HOS	0.	0.	6527.17200000
202.	P1A	1281.	55639.	6209.20300000
202.	P2B	1314.	59031.	6300.87500000
202.	POS	1314.	115565.	12609.88000000
228.	P1A	1466.	22766.	2926.89900000
228.	P2B	1501.	27780.	3571.58400000
228.	POS	1507.	56735.	7294.23400000
252.	P1A	1659.	50667.	7478.16400000
252.	P2B	1694.	18081.	2957.35300000
252.	P3B	1701.	21837.	3571.61300000
252.	P4B	1712.	5275.	862.81910000
252.	POS	0.	0.	14869.95000000
276.	P1A	1839.	14060.	2510.90300000
276.	P1B	1870.	14490.	2587.69300000
276.	POS	1870.	42634.	7613.64500000
278.	P1A	1841.	4703.	931.03150000
278.	POS	1841.	19924.	3944.17600000
300.	POS	2100.	6083.	1286.71900000
302.	POS	2026.	24038.	5085.00800000

PAH Parent Sum and Centroid :	57242.6600000	242.490
178 Homologs Sum and Centroid :	6527.1720000	213.287

NBH-12 -BARREL

SAMPNUM : 45045 S3101A21 SEDIMENT

NB HANSEN NBH12 NBH 1 860225 100% NBH12

as read from list named. : QL861024.QL

Run date : 10/24/86
Dry weight or volume (ml) : 0.360
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	38761.	38667.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	950.	4930.	425.18750000
178.	P1A	1096.	89600.	5833.54300000
178.	P2B	1103.	15085.	1424.19600000
178.	POS	0.	0.	7257.73800000
178.	H1C	1177.	55126.	4248.41000000
178.	H2C	1262.	44979.	3466.42700000
178.	H3C	1334.	39578.	3050.16800000
178.	H4C	0.	0.	3258.29900000
178.	HOS	0.	0.	14023.30000000
202.	P1A	1280.	238391.	14352.44000000
202.	P2B	1314.	262732.	15129.11000000
202.	POS	1314.	507131.	29852.50000000
228.	P1A	1501.	140103.	8721.98800000
228.	P2B	1507.	133369.	8302.76600000
228.	POS	1501.	304737.	18971.13000000
252.	P1A	1659.	247035.	17654.96000000
252.	P2B	1694.	92562.	7330.73000000
252.	P3B	1701.	114125.	9038.44900000
252.	P4B	1711.	24987.	1978.89200000
252.	POS	0.	0.	36003.04000000
276.	P1A	1917.	71092.	6147.44900000
276.	P1B	1839.	65287.	5645.40600000
276.	POS	1870.	210684.	18218.11000000
278.	P1A	1841.	21530.	2063.80700000
278.	POS	1841.	89393.	8568.78100000
300.	POS	2098.	23090.	2365.14700000
302.	POS	2025.	120073.	12299.44000000

PAH Parent Sum and Centroid :	133961.0000000	243.542
178 Homologs Sum and Centroid :	14023.3000000	211.310

NBH-14 - BARREL

SAMPNUM : 45046 S3102A21 SEDIMENT

NF HANSEN NBH14 NBH 1 860225 100% NBH14

as read from list named : QL861027.QL

Run date : 10/27/86
Dry weight or volume (ml) : 0.230
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	30756.	20631.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	952.	4606.	776.59200000
178.	P1A	1096.	51426.	6706.46900000
178.	P2B	1104.	9670.	1757.92100000
178.	POS	0.	0.	8464.39100000
178.	H1C	1174.	40351.	6128.26600000
178.	H2C	1262.	36380.	5555.52000000
178.	H3C	1335.	27193.	4129.94100000
178.	H4C	0.	0.	2418.09100000
178.	HOS	0.	0.	18231.82000000
202.	P1A	1281.	105220.	14410.60000000
202.	P2B	1314.	104406.	13841.84000000
202.	POS	1281.	213485.	28763.12000000
228.	P1A	1502.	37021.	6681.70700000
228.	P2B	1507.	42720.	7710.19100000
228.	POS	1507.	89455.	16145.19000000
252.	P1A	1659.	71204.	14430.14000000
252.	P2B	1694.	25611.	5735.27700000
252.	P3B	1701.	32658.	7313.35500000
252.	P4B	1712.	7284.	1631.14500000
252.	POS	0.	0.	29109.91000000
276.	P1A	1839.	19592.	4859.39500000
276.	P1B	1871.	20311.	5037.64800000
276.	POS	1871.	58632.	14542.56000000
278.	P1A	1842.	6470.	1714.50400000
278.	POS	1842.	26351.	6982.30100000
300.	POS	2099.	7776.	2272.07700000
302.	POS	2027.	30084.	8790.36300000

PAH Parent Sum and Centroid : 115846.5000000 239.573

178 Homologs Sum and Centroid : 18231.8200000 208.179

NBH-14 - BARREL

SAMPNUM : 45047 S3103A21 SEDIMENT

NT HANSEN NBH14 NBH 1 860225 100% NBH14

as read from list named : GL861027.GL

Run date : 10/27/86
Dry weight or volume (ml) : 0.280
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	28047.	22873.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	2918.	443.20950000
178.	P1A	1098.	49211.	5780.75000000
178.	P2B	1105.	7506.	1229.17800000
[illegible]	[illegible]	[illegible]	0.	7009.93000000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	4799.00800000
178.	H3C	1336.	32121.	4394.22300000
178.	H4C	0.	0.	2474.83900000
178.	HOS	0.	0.	15403.27000000
202.	P1A	1282.	137366.	15572.69000000
202.	P2B	1315.	121189.	13299.41000000
202.	POS	1282.	261851.	29202.73000000
228.	P1A	1503.	46755.	6252.32000000
228.	P2B	1508.	51906.	6941.09400000
228.	POS	1503.	108616.	14524.63000000
252.	P1A	1660.	85410.	12824.76000000
252.	P2B	1696.	31268.	5188.03900000
252.	P3B	1702.	38982.	6467.94500000
252.	P4B	1713.	9867.	1637.15700000
252.	POS	0.	0.	26117.90000000
276.	P1A	1840.	26406.	4852.70300000
276.	P1B	1872.	26538.	4876.92200000
276.	POS	1872.	74584.	13706.36000000
278.	P1A	1842.	8448.	1658.57800000
278.	POS	1842.	33158.	6509.70700000
300.	POS	2101.	8855.	1917.00000000
302.	POS	2028.	40594.	8788.42200000

PAH Parent Sum and Centroid : 108219.9000000 239.655

178 Homologs Sum and Centroid : 15403.2700000 211.098

NBH-14 - BARREL

SAMPNUM# : 45048 S3104A21 SEDIMENT

NB HANSEN NBH14 NBH 1 860225 100% NBH14

as read from list named : QLS61027.QL

Run date : 10/27/86
Dry weight or volume (ml) : 0.220
Lipid factor : 1.000
Fraction of the sample represented by the extract : 1.000

SS-Sample comments :

Org. prep comments :

Mass Spec comment :

Internal standards :

actual nanograms added :	1110.000	1110.000
measured areas :	26025.	16876.

MW	DESC	SCAN	AREA	NG/GM
166.	POS	953.	1698.	353.69260000
178.	P1A	1097.	28127.	4531.82400000
178.	P2B	1105.	3662.	822.43820000
178.	POS	0.	0.	5354.26200000
178.	H1C	1175.	[illegible]	[illegible]
178.	H2C	[illegible]	[illegible]	[illegible]
178.	H3C	[illegible]	[illegible]	[illegible]
178.	H4C	0.	0.	1946.48000000
178.	HOS	0.	0.	13372.70000000
202.	P1A	1282.	80286.	13798.94000000
202.	P2B	1315.	71697.	11928.72000000
202.	POS	1282.	153402.	25937.13000000
228.	P1A	1502.	25875.	5968.70300000
228.	P2B	1508.	30728.	7088.03500000
228.	POS	1502.	63257.	14591.49000000
252.	P1A	1660.	54543.	14127.40000000
252.	P2B	1695.	19493.	5579.01200000
252.	P3B	1702.	22439.	6422.29300000
252.	P4B	1713.	6099.	1745.70000000
252.	POS	0.	0.	27874.40000000
276.	P1A	1840.	14762.	4679.40200000
276.	P1B	1871.	15412.	4885.54300000
276.	POS	1871.	43212.	13698.34000000
278.	P1A	1842.	4401.	1490.53100000
278.	POS	1842.	18347.	6213.37900000
300.	POS	2101.	5135.	1917.52500000
302.	POS	2028.	21818.	8147.88700000

PAH Parent Sum and Centroid :	104088.1000000	241.586
178 Homologs Sum and Centroid :	13372.7000000	210.793

Explanation of codes used in the PAH raw data plots and printouts

#	Label	Description of PAH compound(s) measured
1	P0S166	Concentration of MW=166 parent PAH : Fluorene
2	P1A178	Conc of MW=178 Parent : Phenanthrene
3	P2B178	Conc of MW=178 parent : Anthracene
	P0S178	Sum of the concs of MW=178 parents (Phenanthrene+Anthracene)
4	H1C178	Conc of C-1 Homologs of MW=178 parent PAHs
5	H2C178	Conc of C-2 Homologs of MW=178 parent PAHs
6	H3C178	Conc of C-3 Homologs of MW=178 parent PAHs
7	H4C178	Conc of C-4 Homologs of MW=178 parent PAHs
	H0S178	Sum of the concs of Homologs of MW=178 parent PAHs
8	P1A202	Conc of MW=202 parent : Fluoranthene
9	P2B202	Conc of MW=202 paent : Pyrene
	P0S202	Sum of the concs of MW=202 parents : Fluoranthene + Pyr + ..
10	P1A228	Conc of MW=228 parent : Benz(a)anthracene
11	P2B228	Conc of MW=228 parent : Chrysene + Triphenylene
	P0S228	Sum of conc of MW=228 parents : Benz(a)anthracene + Chrysene + Triphenylene + ...
12	P1A252	Conc of MW=252 parent : Benzofluoranthenes
13	P2B252	Conc of MW=252 parent : Benzo(e)pyrene
14	P3B252	Conc of MW=252 parent : Benzo(a)pyrene
15	P4B252	Conc of MW=252 parent : Perylene
	P0S252	Sum of concs of MW=252 parents : Benzofluoranthenes + B(e)P + B(a)P + Perylene
16	P1A276	Conc of MW=276 parent : Indeno(1,2,3-cd)pyrene
17	P2B276	Conc of MW=276 parent : Benzo(ghi)perylene
18	P0S276	Sum of concs of MW=276 parents : Indenopyrene + Benzoperylene
19	P1A278	Conc of MW=278 parent : Dibenz(a,h)anthracene
20	P0S278	Sum of concs of MW=278 parents : Dibenzanthracenes + ...
21	P0S300	Conc of MW=300 parent PAH : Coronene
22	P0S302	Sum of concs of MW=302 parent PAHs : Dibenzochrysenes + ...
	PSUM	Sum of all the measured concs of Parent PAHs
	PCENT	Molecular weight centroid for the Parent PAHs
	CH178	Molecular weight centroid for the C-1 thru C-4 Homologs of MW=178 parents

Numbers refer to the peak position in the plots of the data.

Labels are used in the raw data output and in the databases.

U.S. Environmental Protection Agency
Environmental Research Laboratory
Narragansett, R.I.

Date: December 20, 1986

Subject: Omission of map from PAH memo of 12/19/86

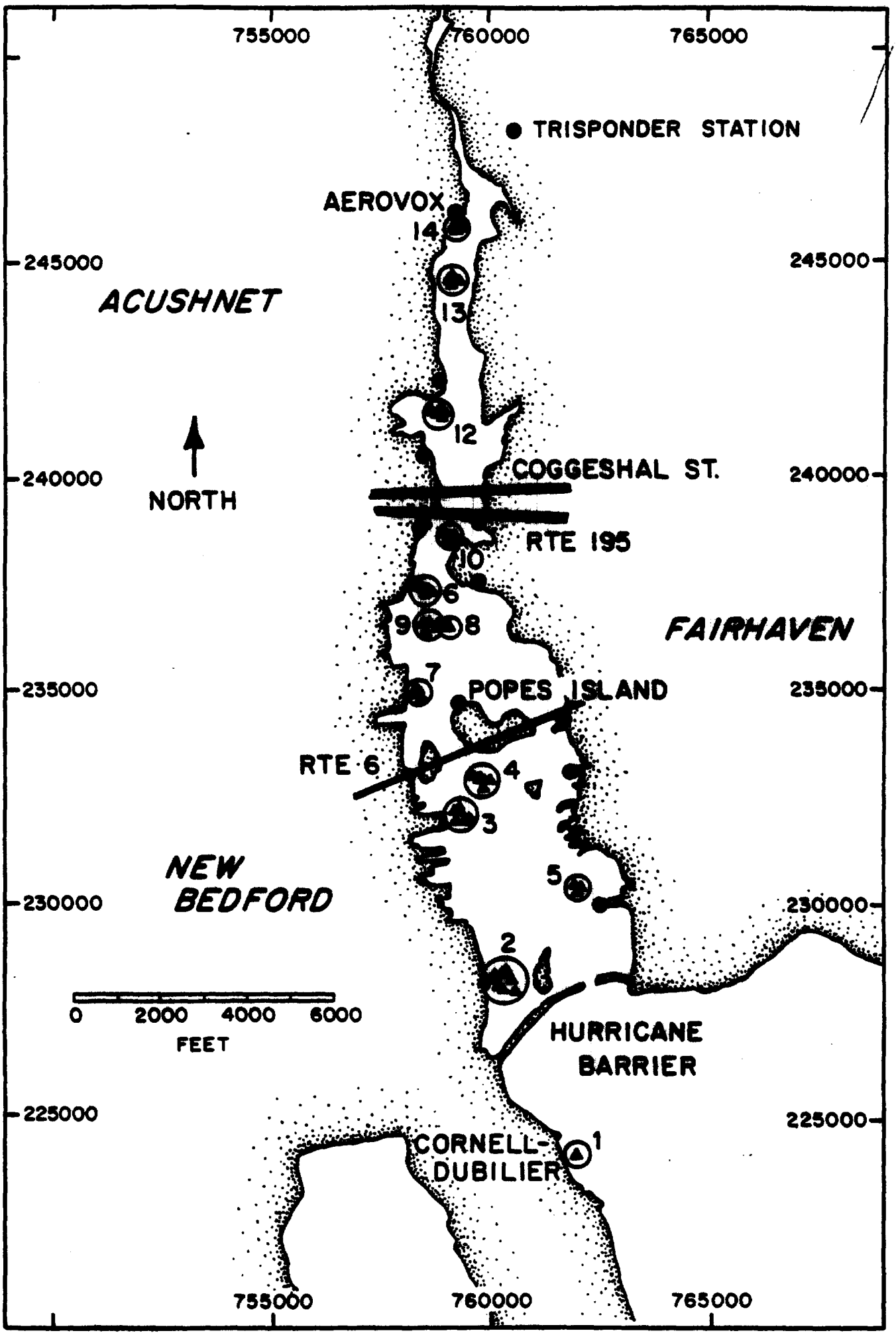
From: Walter Berry WB

To: Leroy Folmar

It would seem that in the rush to get the New Bedford Harbor PAH package out to you before you got too bored with your vacation we left out the map of the harbor promised in the memo. Please include this copy of said map with the package. Thanks.

RECEIVED
DEC 4 1986
REGION I
OFFICE OF REGIONAL COUNSEL

c.c. Charles Bering
Frank Ciavattieri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AEROVOX
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13
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ACUSHNET
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NORTH
240000
COGGESHAL ST.
RTE 195
10
6
9
8
FAIRHAVEN
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235000
POPES ISLAND
RTE 6
4
3
NEW
BEDFORD
5
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FEET
HURRICANE
BARRIER
225000
CORNELL-
DUBILIER
1