



NATTS Technical Assistance Document & Methods Update

David Shelow
OAQPS/AQAD/AAMG



TAD Updates

- Goal: Guidance document to have consistency across the network/labs.
- Measured by PT samples.
- Updated every couple years.
- Forming a workgroup.
- Updates will focus on Methods portion of TAD.
- Will indicate the “preferred approach”.



VOC Updates Planned

- Canister blank cleanliness levels need lowered to accommodate 10^{-6} risk levels
- Canister cleaning
 - Add heat to cleaning guidance
 - Blank testing over time
- Standards Preparation
 - Higher concentration stds diluted at working levels
 - Measure humidity of diluent gases
 - Discussion on injecting H₂O to increase %RH



VOC Updates Planned cont...

- What is “verified” acrolein?
- MDLs – determining MDLs and reporting MDLs.
- Is the canister still good?
 - How to test canisters
 - VOC stability in canisters
- Discuss subambient vs pressurized sampling.
- Duplicate vs collocated sampling.
- What about adding NATTS compounds?



Carbonyls Updates Planned

- Should we do blank correction/subtraction?
- HPLC coelution should be addressed.
- Issues with 24 hr sampling
 - High %RH
 - Why don't integrated 3@8 hr = 24hr results?
- Duplicate vs collocated sampling.



Semi-Volatiles Updates Planned

- Frit vs Screen in PS-1 sampling cartridge.
- Do we want to add TO-17?

Metals Updates Planned

- Advantage and disadvantage of HF & H₂O₂ addition



Meteorology Updates Planned

- Reporting of wind speed and direction; recommending vector resultants

Cr+6 Updates Planned

- Sonication versus shaking
- New ASTM method.



Methods Updates

- EPA ORD has been tasked to develop a new method for acrolein/carbonyls.
- The workgroup has been formed.
- Literature search has been completed.
- Project plan is being developed
- QAPP is being written.