



**South Coast  
AQMD**

# **M313 Semi-Volatile Compound Exclusion Pathway**

## **Matrix Determination**

**Christi Schroeder, Ph.D.**

**Air Quality Chemist  
South Coast AQMD**

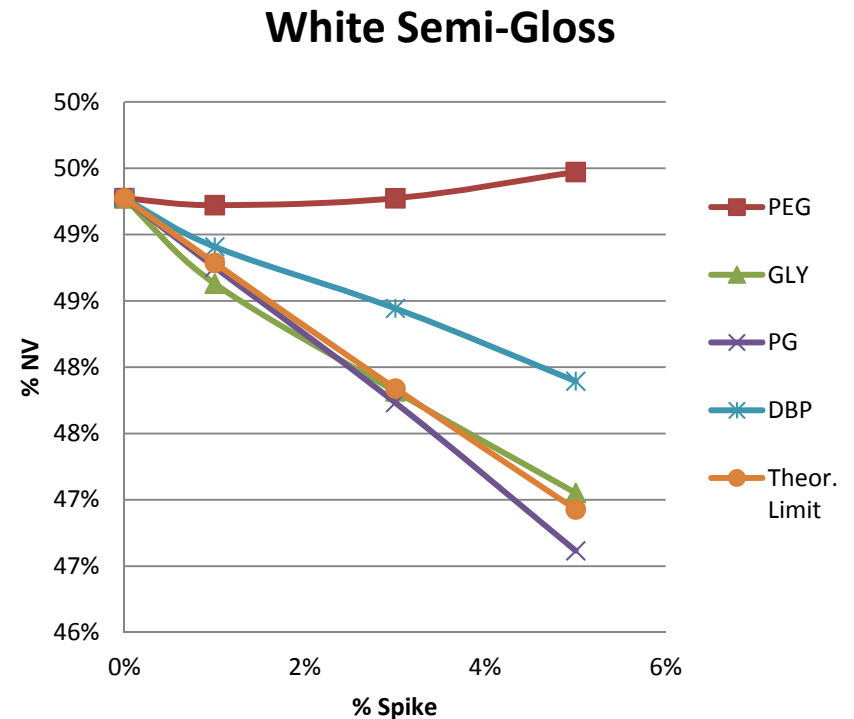
# Method Background

- Purpose

- Establish paradigm for the evaluation of potential M313 excluded compounds

- History

- M24 film spike ext./rec.
- GC-FID
- GC-MS/FID
- **M24 film spiking ( $\Delta$  %NV)  $\rightarrow$  good reproducibility**



# Matrix for Spiked Film Studies

## Matrix Choices to Date

- Fully formulated matrix:
  - Exterior, semi-gloss white, latex base
  - Interior, flat black, latex base, “zero VOC”
- Simplified resin-only matrix:
  - White, vinyl acetate ethylene emulsion

# Current Issues and Next Steps

- EPA has received a preliminary draft method
  - Open to the idea of using 3 different matrices
  - Requiring a much more detailed procedure
- SCAQMD currently revising testing procedures
  - Requesting feedback from industry on matrix selection
  - Flat, non-flat, and ?
  - VOC content
  - Need standardized (non-off the shelf) matrix

# Questions?

**Please contact Heather with any  
feedback regarding matrix  
selection.**

Christi Schroeder, Ph.D.

AQ Chemist

South Coast AQMD

[CSchroeder@aqmd.gov](mailto:CSchroeder@aqmd.gov)

909.396.2211

Heather Farr

AQ Specialist

South Coast AQMD

[Hfarr@aqmd.gov](mailto:Hfarr@aqmd.gov)

909.396.3672