

**EPA's APTI**  
**Course #450/468**

***Monitoring Compliance Testing  
and  
Source Test Observations***

***Problem Set 4***

1. What USEPA Federal Reference Method determines volatile organic compounds (VOC), measured as total gaseous nonmethane organics (TGNMO) and reported as carbon?
  - a. FRM 25
  - b. FRM 25A
  - c. FRM 18
  - d. SW-846 0030
  - e. All the above
  
2. When using FRM 25, when carbon dioxide (CO<sub>2</sub>) and water vapor are present stack gas stream, they can produce a positive bias in the sample. The bias can be considered insignificant when?
  - a. The percent moisture is less than 10%
  - b. The CO<sub>2</sub> is less than 10%
  - c. The gas stream has 10% CO<sub>2</sub> and 5% water vapor
  - d. The gas stream has 20% CO<sub>2</sub> and 10% water vapor
  - e. None of the above
  
3. Of the following FRM: 25, 25A, or 18, which does not respond equally to all VOC?
  - a. FRM 25
  - b. FRM 25A
  - c. FRM 18
  - d. All the above
  
4. Which is not a valid collection media for FRM 18?
  - a. Flask
  - b. Flexible Bag
  - c. Direct Interface
  - d. Summa Canister
  - e. Sorbent Tube