VOLATILE ANALYSIS

Quantitation On-Demand Project

Project Parameters Q&A

Quantitation on-demand ordering allows for up to eight (8) samples per order, and three (3) chemicals per sample. This quantitation procedure is the amount of the quantified chemical in the headspace of the sample. (For more custom projects submit request under Order Now tab.)

When Chem-Sets are created, a calibration curve is constructed for each chemical that will be quantified.

A sample number is assigned to each sample submitted. The material should be labeled based upon the sample number assigned. Please send enough of each material for several analytical procedures. Since each sample requires multiple reps (3) ensure approximately 20-100mL or grams are provided (if in doubt, send 100mL or 100g if possible). The amount needed for analysis may vary depending on the nature of the material. Detail shipping instructions are provided in the next section of this document.

Parameters for Quantitation:

The analytical process utilized will quantify amounts of specified chemicals (defined by the Chem Sets chosen on-line for each sample) in headspace based upon method/ technique detection limit. The standard analysis includes dynamic headspace extraction utilizing an absorbent such as TenaxTA, Activated Carbon with various pore sizes, stir bar sorptive extraction (Twister), or SPME, or other. VAC will choose the appropriate technique/ sorbent based on the nature of the odors and material. VAC will also choose the appropriate GC column with suitable stationary phase.

A standard curve will be established for subsequent sample quantification.

SHIPPING INSTRUCTIONS

1.0 Items Needed

1.1. Printed or clear & legibly written material labels

1.2. Non-spill container(s) (glass jars when applicable)

1.3. Clean, heavy duty aluminum foil

1.4. Bubble wrap

1.5. Sealable plastic bags (i.e. Ziploc storage or freezer bags)

1.6. Packing slip

2.0. **Procedure**:

2.1. Place a printed or clear and legibly written label on outside of each container. It is important to be aware of the odors associated with packaging and shipping supplies and minimize or avoid them if possible. Examples include odorous markers, glues, previously used corrugated packaging.

2.2. Fill container with designated material to levels specified in material shipping instructions. Send sufficient material to conduct analyses (typically between 20-100mL or grams). Please contact VAC with questions.

2.3. If using glass jars (preferably mason jars), fill with material, place foil under jar lid between sample and lid, cover with and secure lid. Please ensure lid is tightly sealed to prevent spillage.

2.4. Wrap each labeled container in aluminum foil and mark with material name on outside of foil. This can be hand written, as long as it is legible, with a permanent marker or a printed label securely attached. Note if materials are sealed inside glass it is okay to print on the outside of glass with permanent marker.

2.5. Wrap each container in bubble wrap. For glass containers, ensure containers are wrapped appropriately to prevent breakage during shipping.

2.6. If concerned about the possibility of spillage, container can be place in a Ziploc bag after steps 3.1 – 3.5 are completed.

2.7. A packing slip must be placed in the box with the containers. If more than one box is used, ensure packing slip includes list of contents of each box.

3.0. Shipping Address

3.1. 29750 US Highway 431, Grant, AL 35747