EPA Method 8270:
Semi Volatile Organics by GC/MS

I. Materials

Strata SPE Phase: SDBL 500mg/6mL
Part Number: 8B-S014-HCH
Conditioning Solvent: Methanol, DI Water
Wash Solvent: DI Water
Extraction Solvent: Acetone, Ethyl Acetate

II. Sample Preparation

Prepare the sample for analysis by acidifying the matrix to pH 2 using 50% H_2SO_4 and adding 10% NaCl. Fortify the solution with the desired analytes and surrogate analytes dissolved in MeOH.

III. Method

A. Condition:

1. 5mL of Methanol
2. 15mL of DI Water

B. Load:

Load sample into syringe barrel.

C. Wash:

Wash the sample with three 5mL portions of DI Water. Dry thoroughly for 30 – 60 seconds to insure removal of aqueous wash.

D. Elute:

1. Fill the syringe barrel with 5mL of Acetone and pull it through at a rate not to exceed 3 ml/min.
2. Rinse the sample bottle with two 5mL of Ethyl Acetate and decant the portions into the syringe barrel. Pull the volumes through under vacuum each time at a rate that is not to exceed 3 ml/min.

IV. Analysis

A. Sample should be dried and diluted to a final volume as specified by EPA method 8270.
B. Analyze by GC using a Zebron ZB-5.