Agilent Technologies

SUPELCO Analytical

# Certificate of Analysis

## SCD Sample

**Agilent Part Number:** **G2933-85001** **Sample Lot Number:** **LB74963**

This is a test mix for Sulfur Chemiluminescence Detectors (SCD).

Below is a list of the purity and/or grade of the components that are included in the mix.

| Neat Material | | Neat material Purity and/or Grade |
|---|---|---|
| Dimethylsulfide (CAS NO.: 75-18-3) | | minimum purity 99.9% GC |
| Ethyl methyl sulfide (CAS NO.: 624-89-5) | | minimum purity 99.9% GC |
| Thiophene (CAS NO.: 110-02-1) | | minimum purity 99.7% GC |
| **Solvent Composition:** | | |
| Toluene (CAS NO.: 108-88-3) | 99.9% | HPLC Grade |

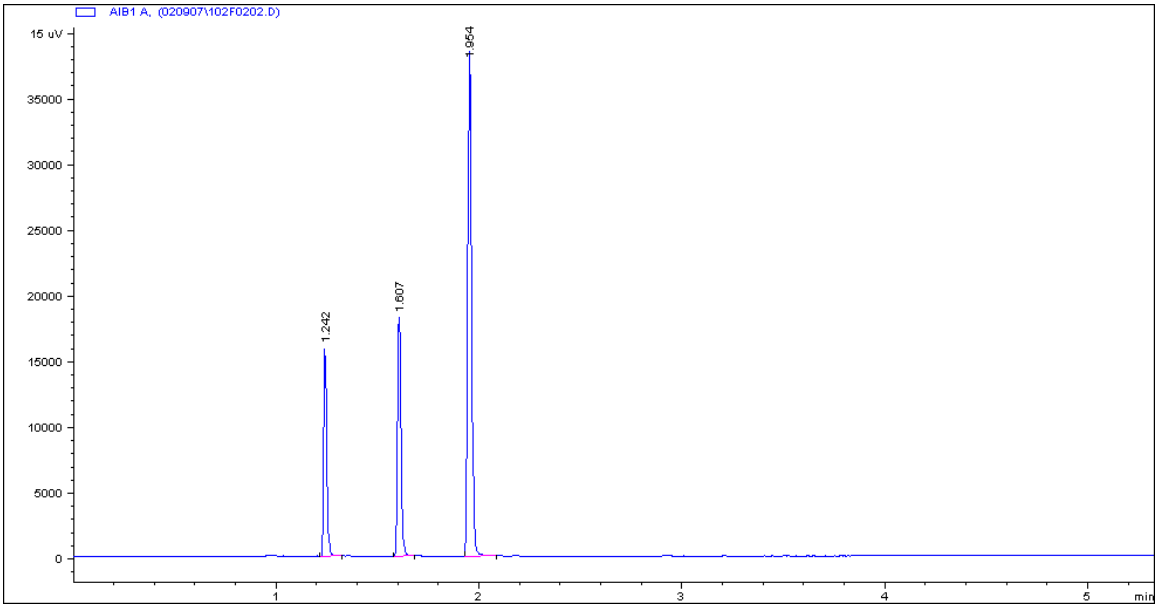
**Traceability:**

These standards have been produced gravimetrically (weight to volume) using ISO9001 quality procedures. Balances used are calibrated regularly and meet the requirements of ISO. Concentration of analytes in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware.

Analytical concentration is +/- 10.0% of the stated concentration.

| Component | Weight Concentration (mg/L) |
|---|---|
| Dimethylsulfide | 11.36 |
| Ethyl methyl sulfide | 19.04 |
| Thiophene | 48.80 |

**Analytical Spectrum :**




**Operating Parameters:**

Model 355 SCD operated according to standard conditions (attenuation = 1);
Agilent Model 6890N GC;
Column : 30m x 0.32mm x 1.0um DB-1
Oven: 65 ºC for 1 minute; 15 ºC/min to 130ºC
12 psi head-pressure
1 uL injection size, split 1:50

**Date of Manufacture:** 07 APRIL 2010
**Date of Expiration**: 07 APRIL 2011

Elwood Doughty
QA Manager
Supelco, Inc.