



284 Sheffield Street, Mountainside, NJ 07092  
Phone: 908 789 8900 Fax: 908 789 8922

## **CASE NARRATIVE**

**Weston Solutions, Inc.**

**Project Name: RFP 905**

**Project # N/A**

**Chemtech Project # Q1664**

**Test Name: SPLP VOA**

### **A. Number of Samples and Date of Receipt:**

22 Solid samples were received on 03/27/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SPLP VOA.

### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of SPLP VOA was based on method 8260D.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1664-05MS} with File ID: VN086163.D recoveries met the requirements for all compounds except for 1,1,2,2-Tetrachloroethane[33%], due to matrix interference.

The MSD {Q1664-06MSD} with File ID: VN086164.D recoveries met the acceptable requirements except for 1,1,2,2-Tetrachloroethane[35%] and Tetrachloroethene[161%], due to matrix interference.

The RPD for {Q1664-06MSD} with File ID: VN086164.D met criteria except for Bromomethane[32%], due to difference in results of MS and MSD.

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.



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The Continuous Calibration File ID VN086140.D met the requirements except for 2-Hexanone and 4-Methyl-2-Pentanone, are failing high but no positive hit in associate samples therefore no corrective action taken.  
The Tuning criteria met requirements.

**E. Calculation:**

Water Calculation in ug/L

$$\frac{(A_x)(I_s)(Df)}{(A_{is})(RRF)(V_0)}$$

Where,

A<sub>x</sub> = Area for the compound to be measured

A<sub>is</sub> = Area for the specific internal standard

I<sub>s</sub> = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the initial calibration curve standard.

V<sub>o</sub> = Volume of water purged in milliliters (mL)

Df = Dilution factor.

**F. Additional Comments:**

Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**G. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_