

## **CASE NARRATIVE**

**Garden State Laboratories, Inc.**

**Project Name: Waste Water 2024**

**Project # N/A**

**Chemtech Project # P4844**

**Test Name: VOCMS Group2**

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

2 Water samples were received on 11/14/2024.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1 and VOCMS Group2. This data package contains results for VOCMS Group2.

### **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 VOCMS Group2 was based on method 8260-Low.

### **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 RPD met criteria .

The Blank Spike for {VN1114WBS02} with File ID: VN084846.D met requirements for all samples except for o-Xylene[113%] . But associated samples have not positive hit for this compound therefore no corrective action was taken.

The Blank Spike Duplicate for {VN1114WBSD02} with File ID: VN084847.D met requirements for all samples except for Dibromochloromethane[111%], o-Xylene[111%] . But associated samples have not positive hit for these compounds therefore no corrective action was taken.

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

The %RSD is greater than 20% in the Initial Calibration method (82N103024W.M) for Methyl Acetate, Acetone, Chloroethane, Chloromethane these compounds are passing on Linear Regression while, 1,4-Dichlorobenzene this compound is passing on Quadratic Regression.

The Continuous Calibration File ID VN084935.D met the requirements except for 1,2,4-Trichlorobenzene and Carbon Disulfide. But associated samples have not positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.



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**E. Additional Comments:**

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The pH value of the samples was 6.0 as samples received unpreserved.

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.

**F. 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\_\_\_\_\_