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# Cover Page

**Order ID :** P4852

**Project ID :** Webster School

**Client :** Kleinfelder

| Lab Sample Number | Client Sample Number |
|---|---|
| P4852-01 | COMP-1 |
| P4852-02 | COMP-2 |
| P4852-03 | COMP-3 |

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. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 11/26/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value**.** This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **P4852**

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** **SOHIL JODHANI** **Date:** **11/26/2024**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4852 | **OrderDate:** | 11/14/2024 11:23:00 AM |
| **Client:** | Kleinfelder | **Project:** | Webster School |
| **Contact:** | Mark Warchol | **Location:** | L41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4852-01** | **COMP-1** | **SOIL** | | | **11/13/24** | | | **11/14/24** |
| | | | VOCMS Group1 | 8260D | | | 11/21/24 | |
| **P4852-02** | **COMP-2** | **SOIL** | | | **11/13/24** | | | **11/14/24** |
| | | | VOCMS Group1 | 8260D | | | 11/18/24 | |
| **P4852-02RE** | **COMP-2RE** | **SOIL** | | | **11/13/24** | | | **11/14/24** |
| | | | VOCMS Group1 | 8260D | | | 11/21/24 | |
| **P4852-03** | **COMP-3** | **SOIL** | | | **11/13/24** | | | **11/14/24** |
| | | | VOCMS Group1 | 8260D | | | 11/21/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4852

**Client:** Kleinfelder

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID:**

0

**Total Voc :**

**Total Concentration:**


# QC SUMMARY

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# Surrogate Summary

**SDG No.:** P4852

**Client:** Kleinfelder

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|
| P4852-01 | COMP-1 | 1,2-Dichloroethane-d4 | 50 | 58.6 | 117 | | 50 | 163 |
| | | Dibromofluoromethane | 50 | 50.6 | 101 | | 54 | 147 |
| | | Toluene-d8 | 50 | 49.3 | 99 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 49.5 | 99 | | 29 | 146 |
| P4852-02 | COMP-2 | 1,2-Dichloroethane-d4 | 50 | 143 | 286 | * | 50 | 163 |
| | | Dibromofluoromethane | 50 | 87.8 | 176 | * | 54 | 147 |
| | | Toluene-d8 | 50 | 41.6 | 83 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 47.8 | 96 | | 29 | 146 |
| P4852-02RE | COMP-2RE | 1,2-Dichloroethane-d4 | 50 | 50.2 | 100 | | 50 | 163 |
| | | Dibromofluoromethane | 50 | 48.7 | 97 | | 54 | 147 |
| | | Toluene-d8 | 50 | 46.6 | 93 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 43.1 | 86 | | 29 | 146 |
| P4852-03 | COMP-3 | 1,2-Dichloroethane-d4 | 50 | 53.2 | 106 | | 50 | 163 |
| | | Dibromofluoromethane | 50 | 49.3 | 99 | | 54 | 147 |
| | | Toluene-d8 | 50 | 48.7 | 97 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 49.8 | 100 | | 29 | 146 |
| VD1118SBL01 | VD1118SBL01 | 1,2-Dichloroethane-d4 | 50 | 49.5 | 99 | | 50 | 163 |
| | | Dibromofluoromethane | 50 | 48.9 | 98 | | 54 | 147 |
| | | Toluene-d8 | 50 | 44.4 | 89 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 41.2 | 82 | | 29 | 146 |
| VD1118SBS01 | VD1118SBS01 | 1,2-Dichloroethane-d4 | 50 | 49.4 | 99 | | 50 | 163 |
| | | Dibromofluoromethane | 50 | 49.8 | 100 | | 54 | 147 |
| | | Toluene-d8 | 50 | 51.0 | 102 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 50.4 | 101 | | 29 | 146 |
| VD1118SBSD01 | VD1118SBSD01 | 1,2-Dichloroethane-d4 | 50 | 48.0 | 96 | | 50 | 163 |
| | | Dibromofluoromethane | 50 | 50.2 | 100 | | 54 | 147 |
| | | Toluene-d8 | 50 | 50.0 | 100 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 50.4 | 101 | | 29 | 146 |
| VY1121SBL01 | VY1121SBL01 | 1,2-Dichloroethane-d4 | 50 | 51.9 | 104 | | 50 | 163 |
| | | Dibromofluoromethane | 50 | 48.5 | 97 | | 54 | 147 |
| | | Toluene-d8 | 50 | 48.2 | 96 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 47.3 | 95 | | 29 | 146 |
| VY1121SBS01 | VY1121SBS01 | 1,2-Dichloroethane-d4 | 50 | 46.0 | 92 | | 50 | 163 |
| | | Dibromofluoromethane | 50 | 43.7 | 87 | | 54 | 147 |
| | | Toluene-d8 | 50 | 43.4 | 87 | | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 45.0 | 90 | | 29 | 146 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4852

**Client:** Kleinfelder

**Analytical Method:** SW8260D **Datafile :** VD080060.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VD1118SBS01 | cis-1,2-Dichloroethene | 20 | 18.4 | ug/Kg | 92 | | | 82 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 20.8 | ug/Kg | 104 | | | 80 | 126 | |
| | Benzene | 20 | 19.3 | ug/Kg | 97 | | | 84 | 121 | |
| | Trichloroethene | 20 | 19.6 | ug/Kg | 98 | | | 83 | 122 | |
| | Toluene | 20 | 19.5 | ug/Kg | 98 | | | 83 | 122 | |
| | Ethyl Benzene | 20 | 18.5 | ug/Kg | 93 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 38.7 | ug/Kg | 97 | | | 83 | 124 | |
| | o-Xylene | 20 | 19.7 | ug/Kg | 99 | | | 83 | 123 | |
| | Isopropylbenzene | 20 | 18.5 | ug/Kg | 93 | | | 82 | 124 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4852

**Client:** Kleinfelder

**Analytical Method:** SW8260D **Datafile :** VD080061.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VD1118SBSD01 | cis-1,2-Dichloroethene | 20 | 20.3 | ug/Kg | 102 | 10 | | 82 | 123 | 20 |
| | 1,1,1-Trichloroethane | 20 | 20.6 | ug/Kg | 103 | 1 | | 80 | 126 | 20 |
| | Benzene | 20 | 20.8 | ug/Kg | 104 | 7 | | 84 | 121 | 20 |
| | Trichloroethene | 20 | 20.5 | ug/Kg | 103 | 5 | | 83 | 122 | 20 |
| | Toluene | 20 | 21.3 | ug/Kg | 106 | 8 | | 83 | 122 | 20 |
| | Ethyl Benzene | 20 | 19.3 | ug/Kg | 97 | 4 | | 82 | 124 | 20 |
| | m/p-Xylenes | 40 | 39.5 | ug/Kg | 99 | 2 | | 83 | 124 | 20 |
| | o-Xylene | 20 | 19.7 | ug/Kg | 99 | 0 | | 83 | 123 | 20 |
| | Isopropylbenzene | 20 | 19.9 | ug/Kg | 100 | 7 | | 82 | 124 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4852

**Client:** Kleinfelder

**Analytical Method:** SW8260D **Datafile :** VY020375.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1121SBS01 | cis-1,2-Dichloroethene | 20 | 18.9 | ug/Kg | 95 | | | 82 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 20.2 | ug/Kg | 101 | | | 80 | 126 | |
| | Benzene | 20 | 19.6 | ug/Kg | 98 | | | 84 | 121 | |
| | Trichloroethene | 20 | 19.3 | ug/Kg | 97 | | | 83 | 122 | |
| | Toluene | 20 | 19.3 | ug/Kg | 97 | | | 83 | 122 | |
| | Ethyl Benzene | 20 | 19.0 | ug/Kg | 95 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 39.2 | ug/Kg | 98 | | | 83 | 124 | |
| | o-Xylene | 20 | 19.5 | ug/Kg | 98 | | | 83 | 123 | |
| | Isopropylbenzene | 20 | 18.4 | ug/Kg | 92 | | | 82 | 124 | |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD1118SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080059.D Lab Sample ID: VD1118SBL01

Date Analyzed: 11/18/2024 Time Analyzed: 10:27

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VD1118SBS01 | VD1118SBS01 | VD080060.D | 11/18/2024 |
| VD1118SBSD01 | VD1118SBSD01 | VD080061.D | 11/18/2024 |
| COMP-2 | P4852-02 | VD080069.D | 11/18/2024 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1121SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020374.D Lab Sample ID: VY1121SBL01

Date Analyzed: 11/21/2024 Time Analyzed: 09:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY1121SBS01 | VY1121SBS01 | VY020375.D | 11/21/2024 |
| COMP-1 | P4852-01 | VY020377.D | 11/21/2024 |
| COMP-2RE | P4852-02RE | VY020378.D | 11/21/2024 |
| COMP-3 | P4852-03 | VY020379.D | 11/21/2024 |

COMMENTS:

Raw Data: **VD080019.D**

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080019.D BFB Injection Date: 11/15/2024

Instrument ID: MSVOA_D BFB Injection Time: 09:14

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.1 |
| 75 | 30.0 - 60.0% of mass 95 | 50.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 90.2 |
| 175 | 5.0 - 9.0% of mass 174 | 7.3 ( 8.1 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 87.4 ( 97 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.9 ( 6.7 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VD080020.D | 11/15/2024 | 10:04 |
| VSTDICC010 | VSTDICC010 | VD080021.D | 11/15/2024 | 10:31 |
| VSTDICC020 | VSTDICC020 | VD080022.D | 11/15/2024 | 10:58 |
| VSTDICCC050 | VSTDICCC050 | VD080023.D | 11/15/2024 | 11:24 |
| VSTDICC100 | VSTDICC100 | VD080024.D | 11/15/2024 | 11:51 |
| VSTDICC150 | VSTDICC150 | VD080025.D | 11/15/2024 | 12:18 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080057.D BFB Injection Date: 11/18/2024

Instrument ID: MSVOA_D BFB Injection Time: 09:21

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.4 |
| 75 | 30.0 - 60.0% of mass 95 | 49.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.8 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 93 |
| 175 | 5.0 - 9.0% of mass 174 | 7.3 ( 7.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 92 ( 98.9 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.8 ( 6.3 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VD080058.D | 11/18/2024 | 09:51 |
| VD1118SBL01 | VD1118SBL01 | VD080059.D | 11/18/2024 | 10:27 |
| VD1118SBS01 | VD1118SBS01 | VD080060.D | 11/18/2024 | 10:55 |
| VD1118SBSD01 | VD1118SBSD01 | VD080061.D | 11/18/2024 | 11:22 |
| COMP-2 | P4852-02 | VD080069.D | 11/18/2024 | 15:18 |

Raw Data: **VY020337.D**

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020337.D BFB Injection Date: 11/19/2024

Instrument ID: MSVOA_Y BFB Injection Time: 14:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 21.7 |
| 75 | 30.0 - 60.0% of mass 95 | 55.3 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.8 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 81.6 |
| 175 | 5.0 - 9.0% of mass 174 | 6.4 ( 7.8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 79 ( 96.8 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.4 ( 6.8 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY020338.D | 11/19/2024 | 15:49 |
| VSTDICC010 | VSTDICC010 | VY020339.D | 11/19/2024 | 16:12 |
| VSTDICC020 | VSTDICC020 | VY020340.D | 11/19/2024 | 16:35 |
| VSTDICC050 | VSTDICC050 | VY020341.D | 11/19/2024 | 16:57 |
| VSTDICC100 | VSTDICC100 | VY020342.D | 11/19/2024 | 17:20 |
| VSTDICC150 | VSTDICC150 | VY020343.D | 11/19/2024 | 17:42 |

Raw Data: **VY020372.D**

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020372.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:32

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 21.5 |
| 75 | 30.0 - 60.0% of mass 95 | 55.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 73.7 |
| 175 | 5.0 - 9.0% of mass 174 | 5.8 ( 7.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 70.4 ( 95.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.7 ( 6.7 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY020373.D | 11/21/2024 | 09:25 |
| VY1121SBL01 | VY1121SBL01 | VY020374.D | 11/21/2024 | 09:59 |
| VY1121SBS01 | VY1121SBS01 | VY020375.D | 11/21/2024 | 10:39 |
| COMP-1 | P4852-01 | VY020377.D | 11/21/2024 | 11:25 |
| COMP-2RE | P4852-02RE | VY020378.D | 11/21/2024 | 11:49 |
| COMP-3 | P4852-03 | VY020379.D | 11/21/2024 | 12:12 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080058.D Date Analyzed: 11/18/2024

Instrument ID: MSVOA_D Time Analyzed: 09:51

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 175845 | 7.88 | 262205 | 8.78 | 246582 | 11.58 |
| UPPER LIMIT | 351690 | 8.375 | 524410 | 9.281 | 493164 | 12.081 |
| LOWER LIMIT | 87922.5 | 7.375 | 131103 | 8.281 | 123291 | 11.081 |
| EPA SAMPLE NO. | | | | | | |
| COMP-2 | 10618 * | 7.88 | 22667 * | 8.78 | 22496 * | 11.58 |
| VD1118SBL01 | 175706 | 7.88 | 294729 | 8.78 | 273326 | 11.58 |
| VD1118SBS01 | 178101 | 7.88 | 282863 | 8.78 | 258933 | 11.58 |
| VD1118SBSD01 | 185362 | 7.88 | 285036 | 8.78 | 278035 | 11.58 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Fax : 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080058.D Date Analyzed: 11/18/2024

Instrument ID: MSVOA_D Time Analyzed: 09:51

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 138959 | | 13.516 | | | | |
| UPPER LIMIT | 277918 | | 14.016 | | | | |
| LOWER LIMIT | 69479.5 | | 13.016 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| COMP-2 | 10070 | * | 13.52 | | | | |
| VD1118SBL01 | 122131 | | 13.52 | | | | |
| VD1118SBS01 | 141556 | | 13.52 | | | | |
| VD1118SBSD01 | 143766 | | 13.52 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020373.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:25

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 191018 | 7.71 | 313957 | 8.62 | 263957 | 11.42 |
| UPPER LIMIT | 382036 | 8.213 | 627914 | 9.122 | 527914 | 11.92 |
| LOWER LIMIT | 95509 | 7.213 | 156979 | 8.122 | 131979 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| COMP-1 | 137407 | 7.71 | 264667 | 8.62 | 248534 | 11.42 |
| COMP-2RE | 60112 * | 7.71 | 106378 * | 8.62 | 90999 * | 11.42 |
| COMP-3 | 134247 | 7.71 | 257659 | 8.62 | 237210 | 11.41 |
| VY1121SBL01 | 139506 | 7.71 | 270751 | 8.62 | 245370 | 11.42 |
| VY1121SBS01 | 180247 | 7.71 | 303523 | 8.62 | 255135 | 11.42 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020373.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:25

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 121826 | | 13.352 | | | | |
| UPPER LIMIT | 243652 | | 13.852 | | | | |
| LOWER LIMIT | 60913 | | 12.852 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| COMP-1 | 91897 | | 13.35 | | | | |
| COMP-2RE | 32365 | * | 13.35 | | | | |
| COMP-3 | 92815 | | 13.35 | | | | |
| VY1121SBL01 | 89046 | | 13.35 | | | | |
| VY1121SBS01 | 121310 | | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.


# SAMPLE DATA

Raw Data: **VY020377.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | 11/13/24 |
| Project: | Webster School | Date Received: | 11/14/24 |
| Client Sample ID: | COMP-1 | SDG No.: | P4852 |
| Lab Sample ID: | P4852-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 83.2 |
| Sample Wt/Vol: | 5.46 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020377.D | 1 | | 11/21/24 11:25 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.67 | U | 0.67 | 5.50 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.86 | U | 0.86 | 5.50 | ug/Kg |
| 71-43-2 | Benzene | 0.79 | U | 0.79 | 5.50 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.83 | U | 0.83 | 5.50 | ug/Kg |
| 108-88-3 | Toluene | 0.74 | U | 0.74 | 5.50 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.68 | U | 0.68 | 5.50 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.27 | U | 2.27 | 16.5 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.74 | U | 0.74 | 5.50 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 58.6 | | 50 - 163 | 117% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.6 | | 54 - 147 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.3 | | 58 - 134 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.5 | | 29 - 146 | 99% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 137000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 265000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 249000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 91900 | 13.353 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020377.D
Acq On : 21 Nov 2024 11:25
Operator : SY/MD
Sample : P4852-01
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1

Quant Time: Nov 21 13:56:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 137407 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 264667 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 248534 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 91897 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 92476 | 58.579 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 117.160% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 85861 | 50.592 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.180% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 329586 | 49.300 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.600% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 106344 | 49.483 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 98.960% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.879 | 43 | 1196 | 3.160 | ug/l | 96 |

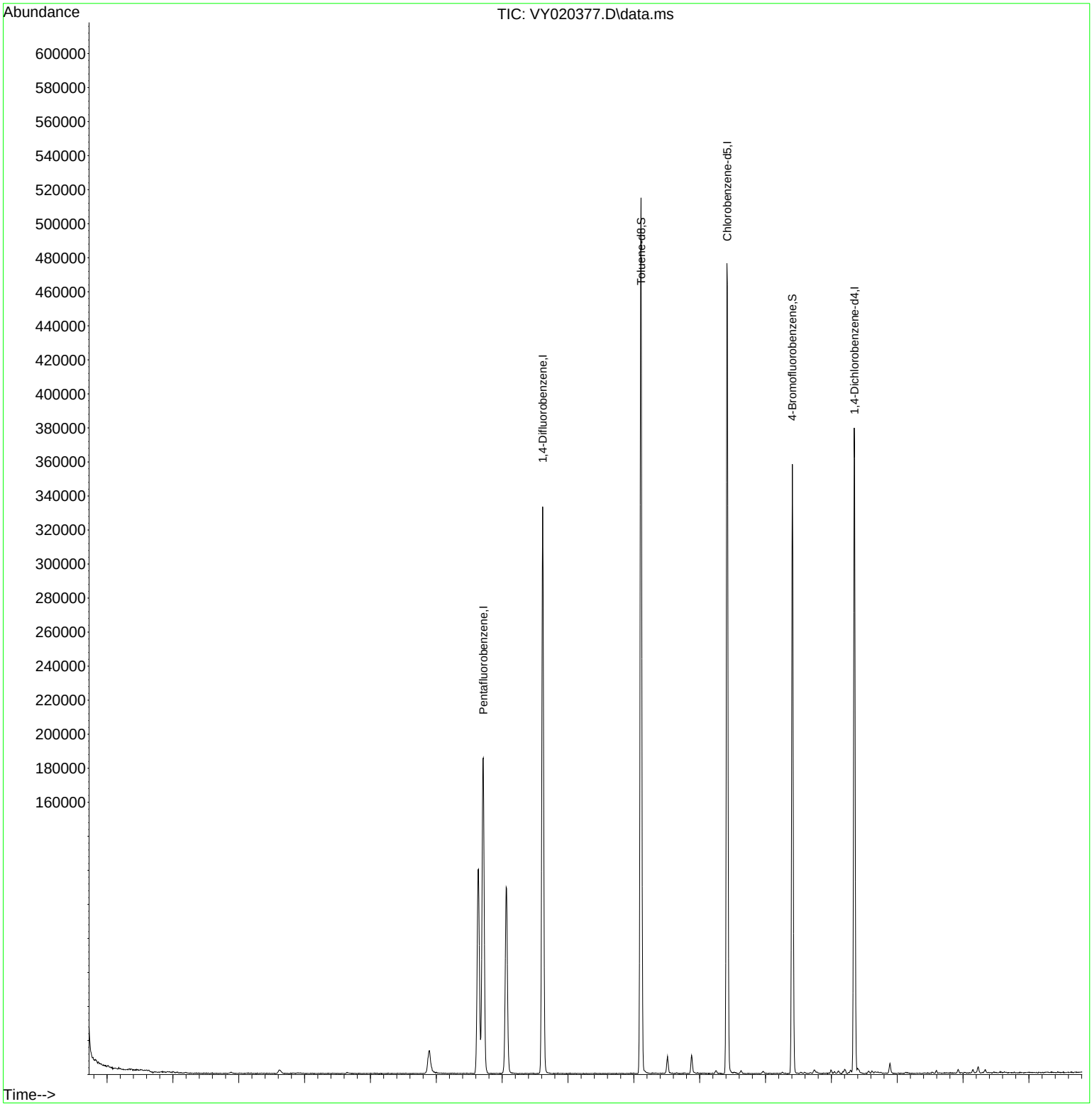
(#) = qualifier out of range (m) = manual integration (+) = signals summed

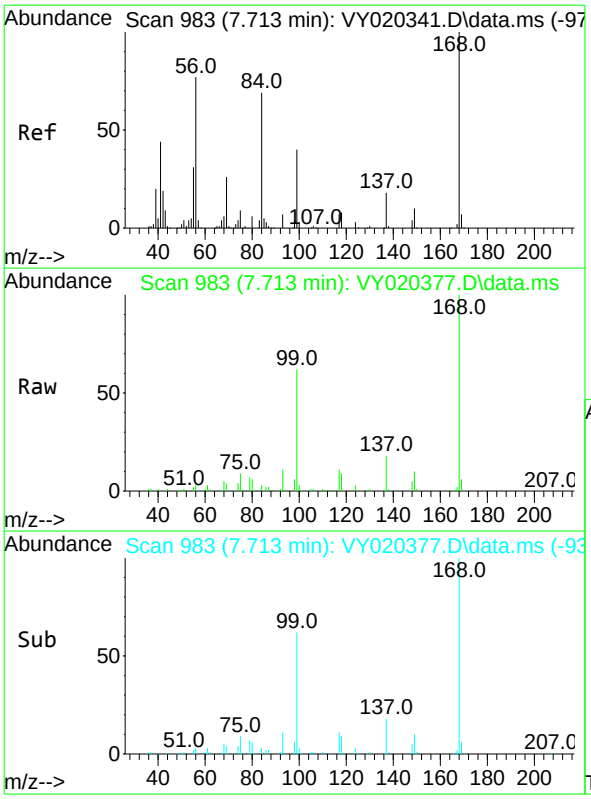
Sample Results: **VY020377.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020377.D
Acq On : 21 Nov 2024 11:25
Operator : SY/MD
Sample : P4852-01
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1

Quant Time: Nov 21 13:56:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



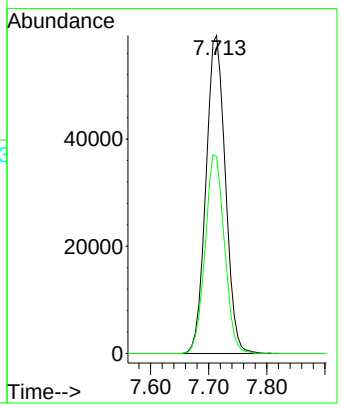


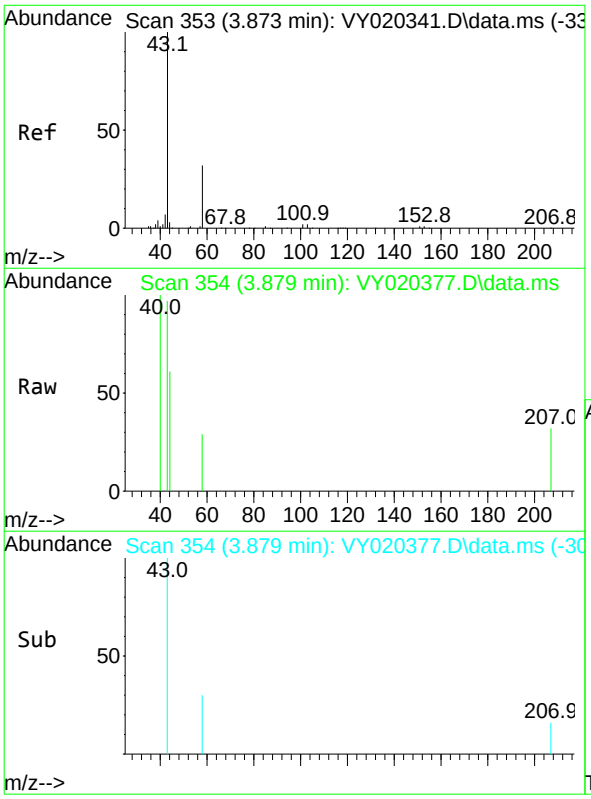

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1

Tgt Ion:168 Resp: 137407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.9 | 46.6 | 69.8 |

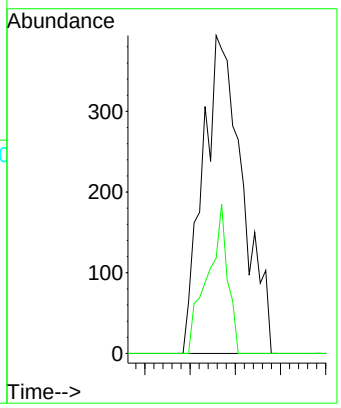


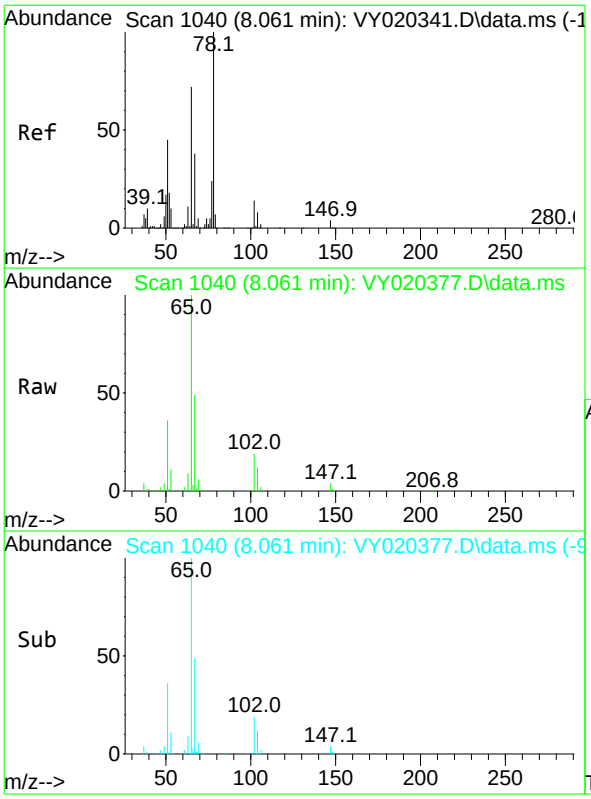




#16
Acetone
Concen: 3.160 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

Tgt Ion: 43 Resp: 1196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.9 | 25.7 | 38.5 |



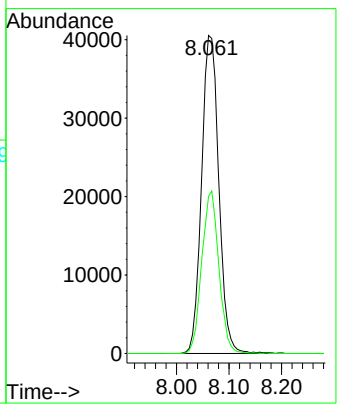


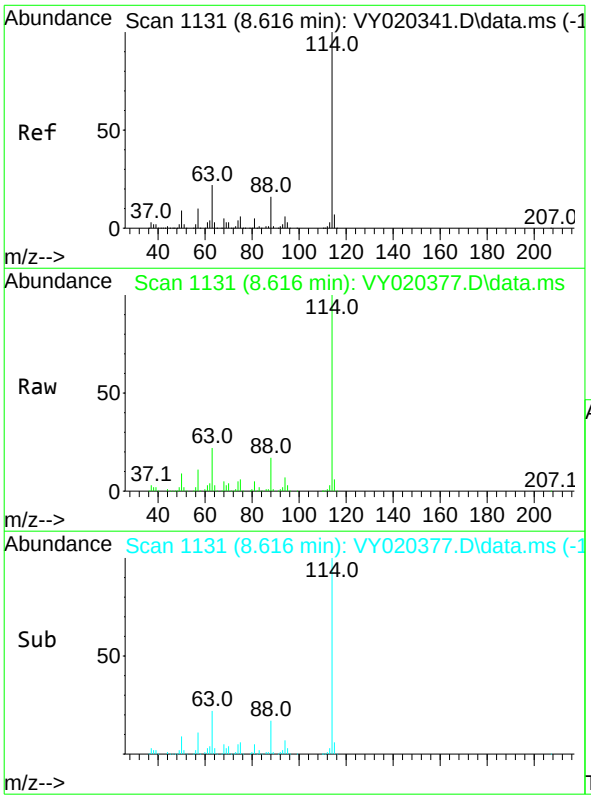

#33
1,2-Dichloroethane-d4
Concen: 58.579 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1

Tgt Ion: 65 Resp: 92476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.6 | 0.0 | 105.8 |

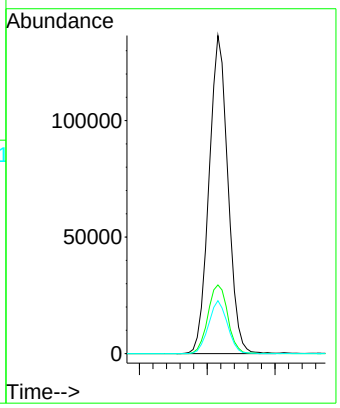


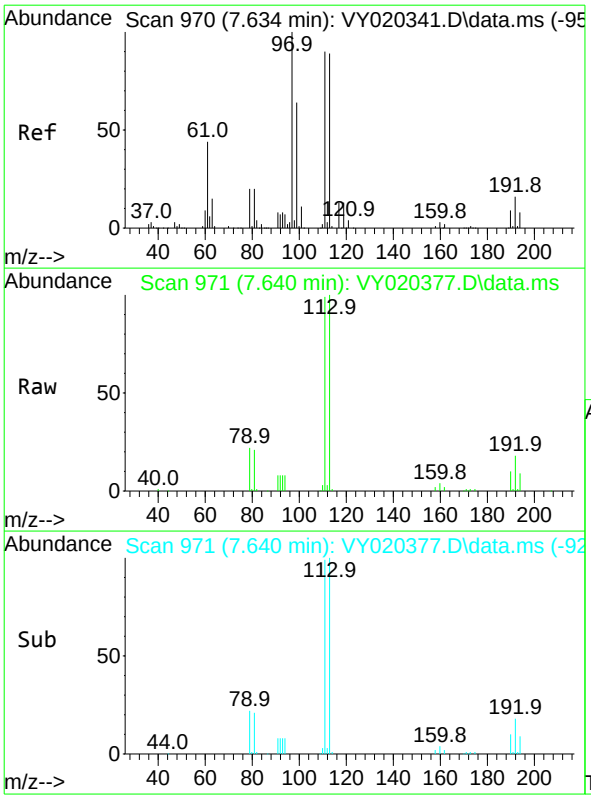




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

Tgt Ion:114 Resp: 264667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 44.8 |
| 88 | 16.6 | 0.0 | 32.0 |



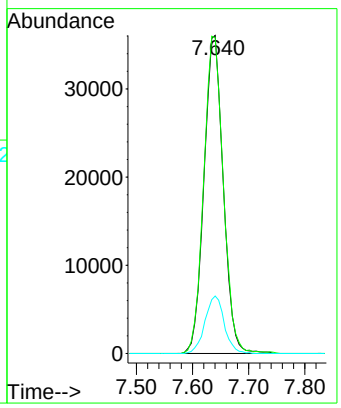


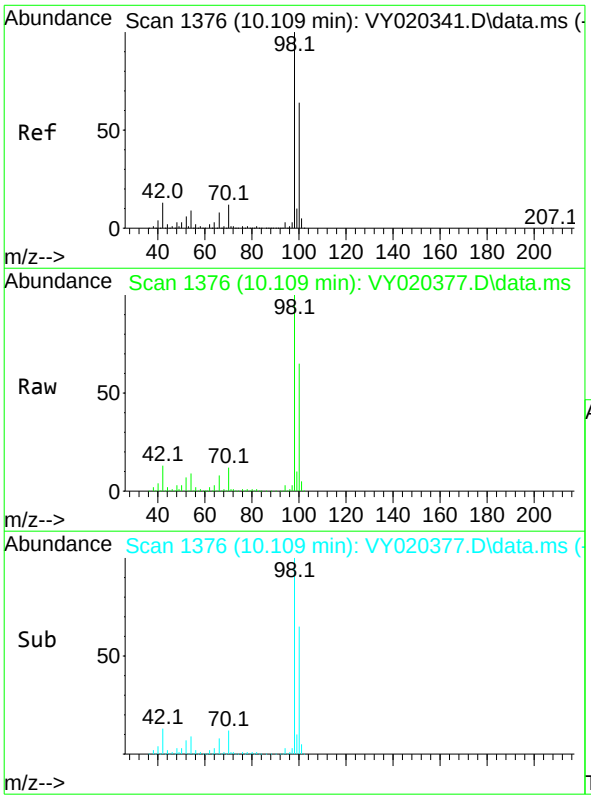

#35
Dibromofluoromethane
Concen: 50.592 ug/l
RT: 7.640 min Scan# 97
Delta R.T. 0.006 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1

Tgt Ion:113 Resp: 85861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 81.4 | 122.0 |
| 192 | 18.1 | 15.1 | 22.7 |

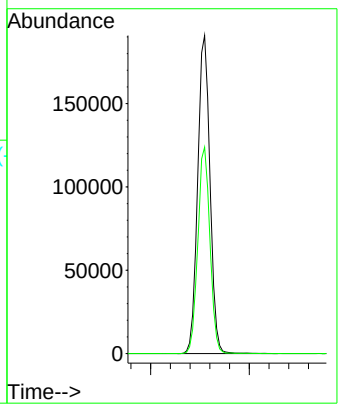


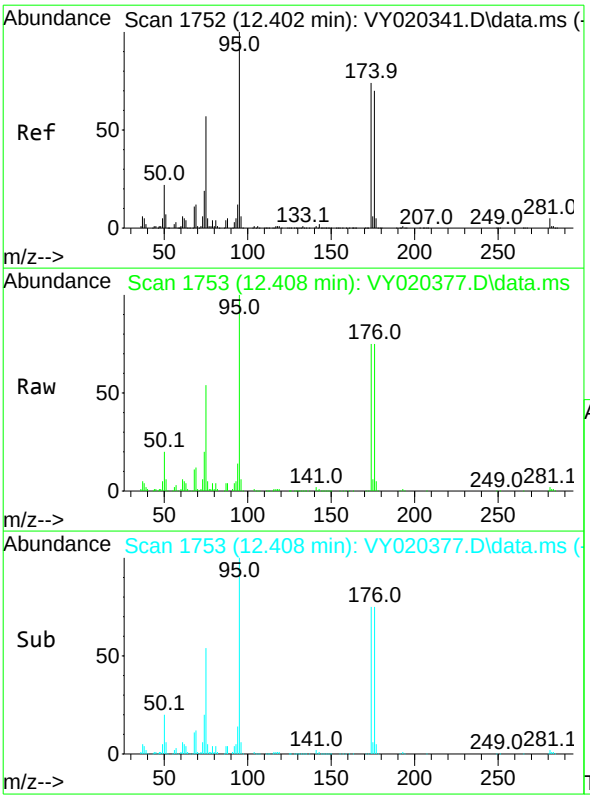




#50
Toluene-d8
Concen: 49.300 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

Tgt Ion: 98 Resp: 329586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.0 | 51.3 | 76.9 |



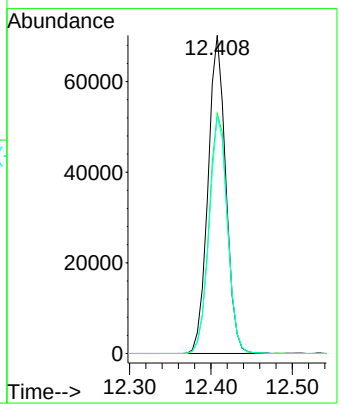


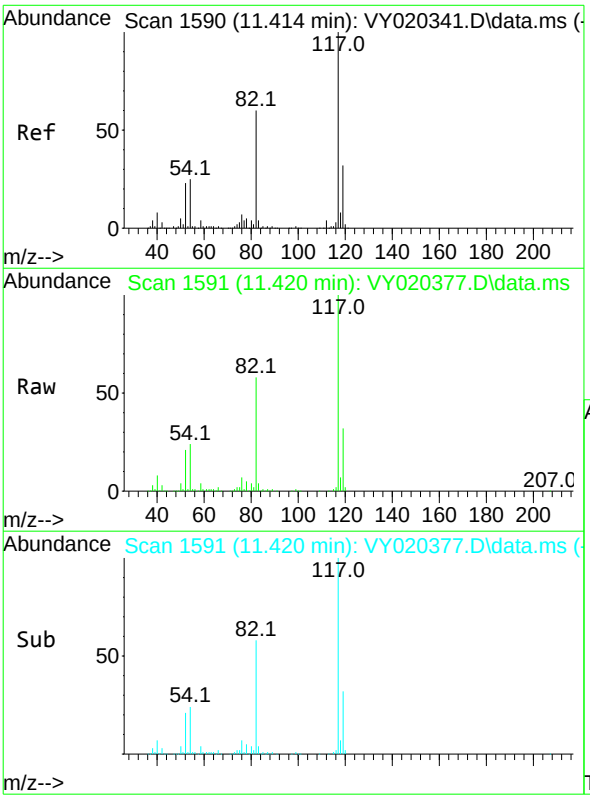

#62
4-Bromofluorobenzene
Concen: 49.483 ug/l
RT: 12.408 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1

Tgt Ion: 95 Resp: 106344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 78.2 | 0.0 | 156.8 |
| 176 | 76.6 | 0.0 | 152.0 |

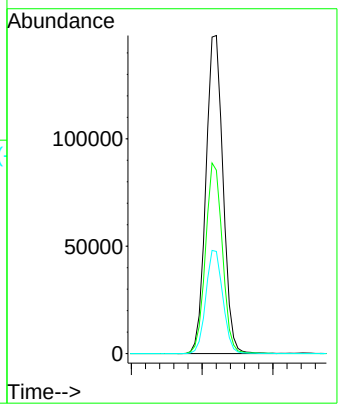


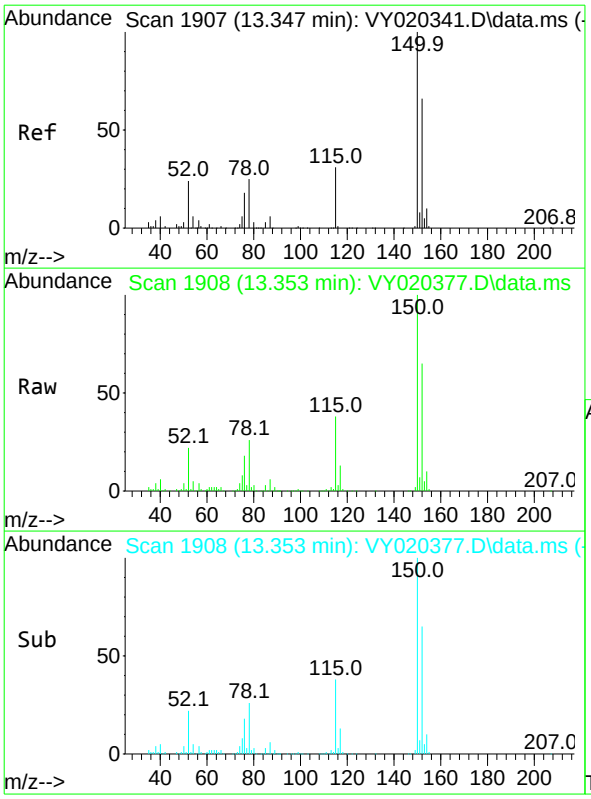




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

Tgt Ion:117 Resp: 248534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.7 | 48.2 | 72.4 |
| 119 | 32.1 | 25.8 | 38.8 |



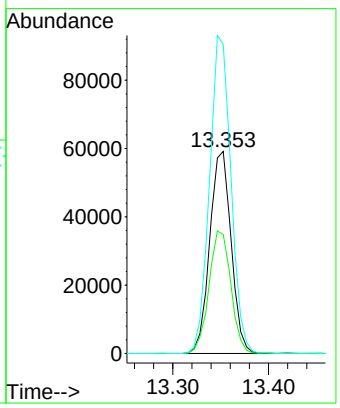



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020377.D
Acq: 21 Nov 2024 11:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1

Tgt Ion:152 Resp: 91897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.0 | 30.0 | 90.0 |
| 150 | 157.6 | 0.0 | 348.2 |



Raw Data: **VD080069.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | 11/13/24 |
| Project: | Webster School | Date Received: | 11/14/24 |
| Client Sample ID: | COMP-2 | SDG No.: | P4852 |
| Lab Sample ID: | P4852-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 81.4 |
| Sample Wt/Vol: | 5.18 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080069.D | 1 | | 11/18/24 15:18 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.72 | U | 0.72 | 5.90 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.92 | U | 0.92 | 5.90 | ug/Kg |
| 71-43-2 | Benzene | 0.85 | U | 0.85 | 5.90 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.89 | U | 0.89 | 5.90 | ug/Kg |
| 108-88-3 | Toluene | 0.79 | U | 0.79 | 5.90 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.74 | U | 0.74 | 5.90 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.43 | U | 2.43 | 17.8 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.79 | U | 0.79 | 5.90 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 140 | * | 50 - 163 | 286% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 87.9 | * | 54 - 147 | 176% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 41.6 | | 58 - 134 | 83% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.8 | | 29 - 146 | 96% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 10600 | 7.881 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 22700 | 8.781 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 22500 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 10100 | 13.516 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080069.D
Acq On : 18 Nov 2024 15:18
Operator : RP/MD
Sample : P4852-02
Misc : 5.18G/5ml/MSVOA_D/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
COMP-2

Quant Time: Nov 19 04:47:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.881 | 168 | 10618 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 22667 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 22496 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 10070 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 15626 | 142.935 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 285.860%# | | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 13253 | 87.852 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 175.700%# | | | |
| 50) Toluene-d8 | 10.269 | 98 | 23672 | 41.634 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 83.260% | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 8925 | 47.844 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.680% | | | |
| Target Compounds | | | | | | Qvalue |

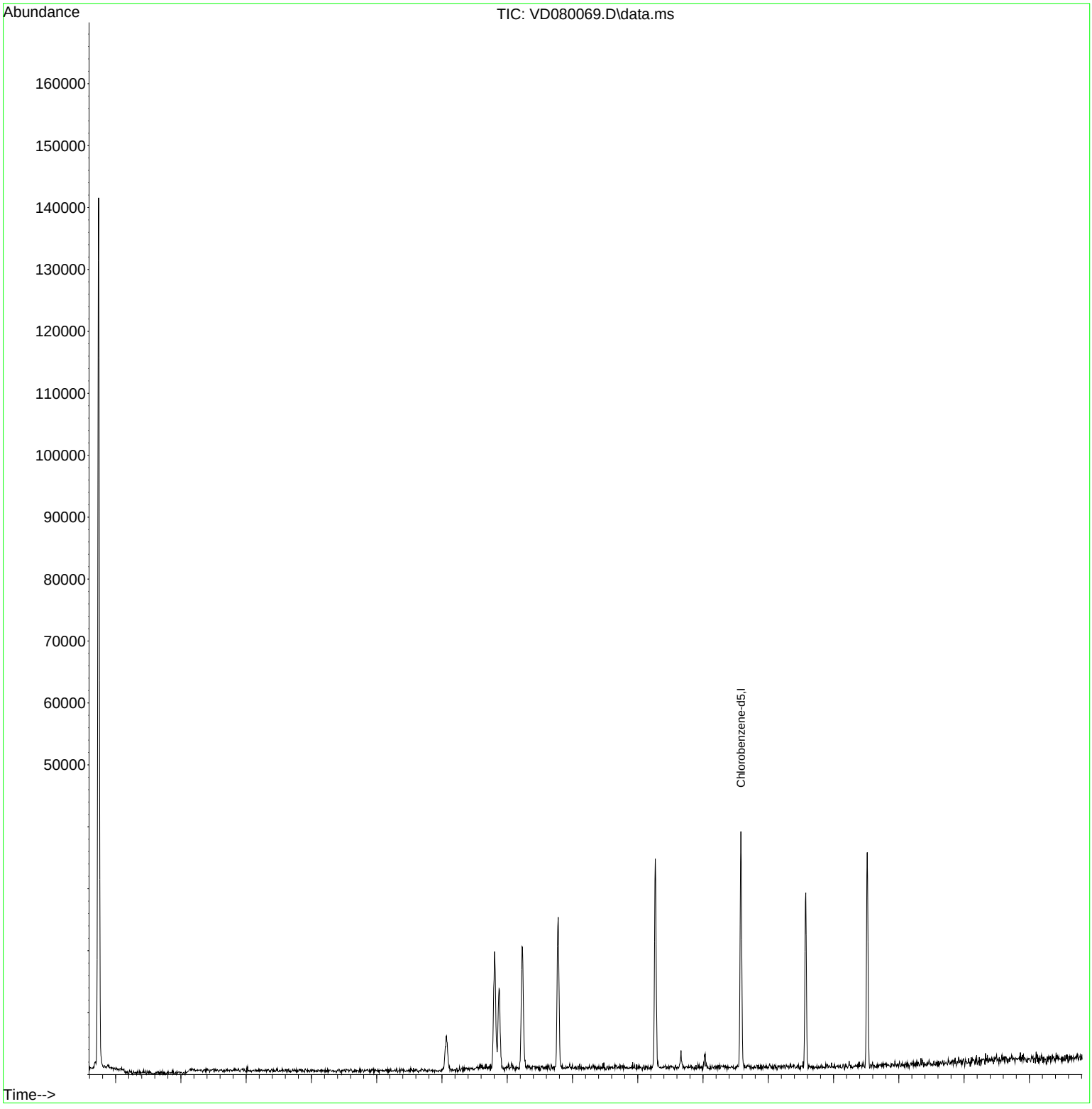
(#) = qualifier out of range (m) = manual integration (+) = signals summed

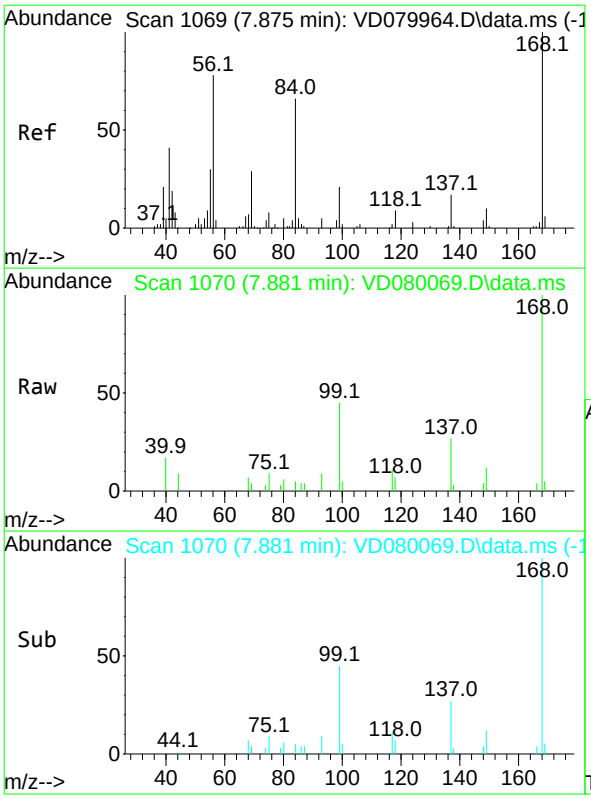
Sample Results: **VD080069.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080069.D
Acq On : 18 Nov 2024 15:18
Operator : RP/MD
Sample : P4852-02
Misc : 5.18G/5ml/MSVOA_D/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
COMP-2

Quant Time: Nov 19 04:47:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



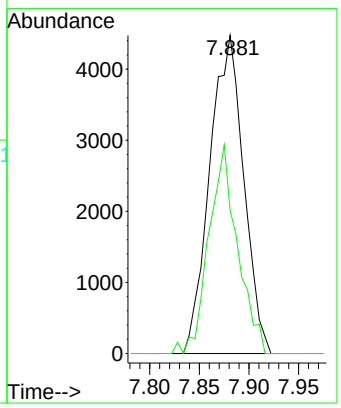


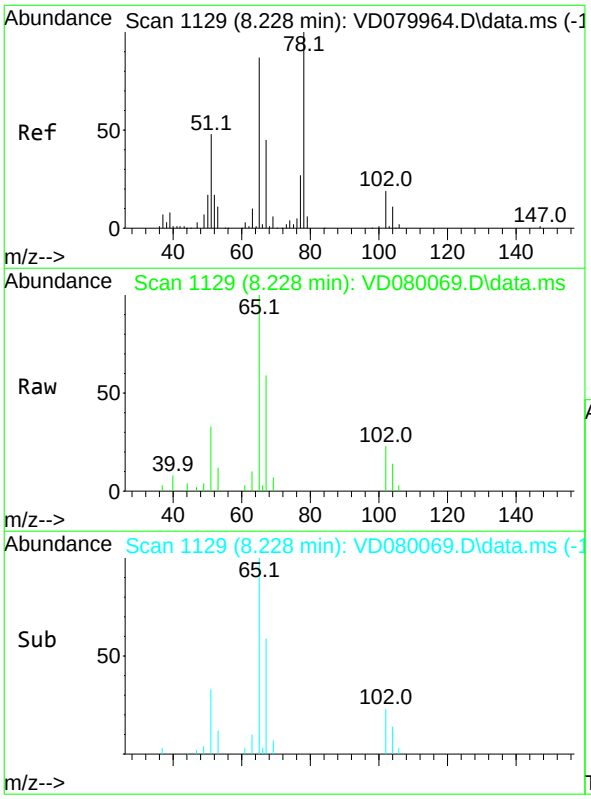

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 10
Delta R.T. 0.006 min
Lab File: VD080069.D
Acq: 18 Nov 2024 15:18

**Instrument :**
MSVOA_D
**ClientSampleId :**
COMP-2

Tgt Ion:168 Resp: 10618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 45.0 | 46.0 | 69.0# |

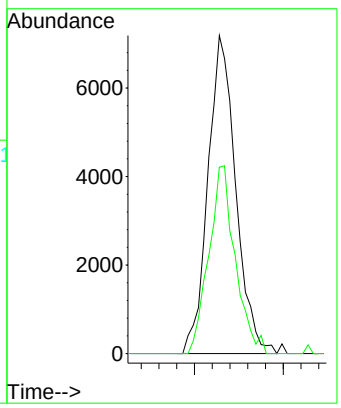


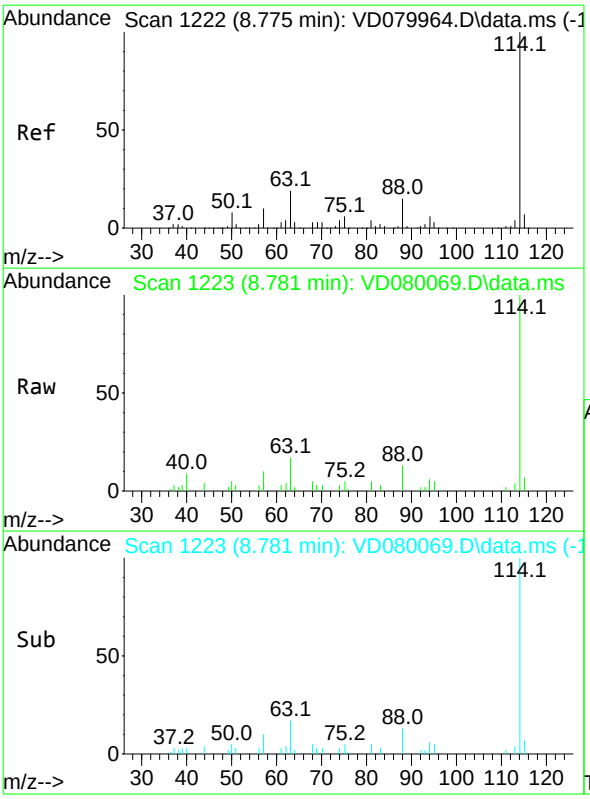




#33
1,2-Dichloroethane-d4
Concen: 142.935 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD080069.D
Acq: 18 Nov 2024 15:18

Tgt Ion: 65 Resp: 15626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 56.1 | 0.0 | 109.2 |



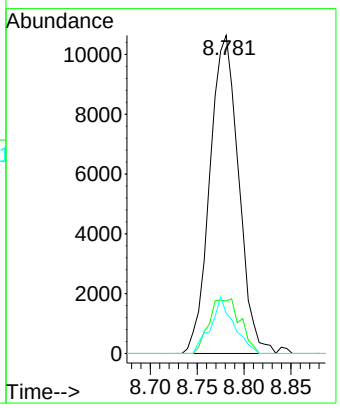


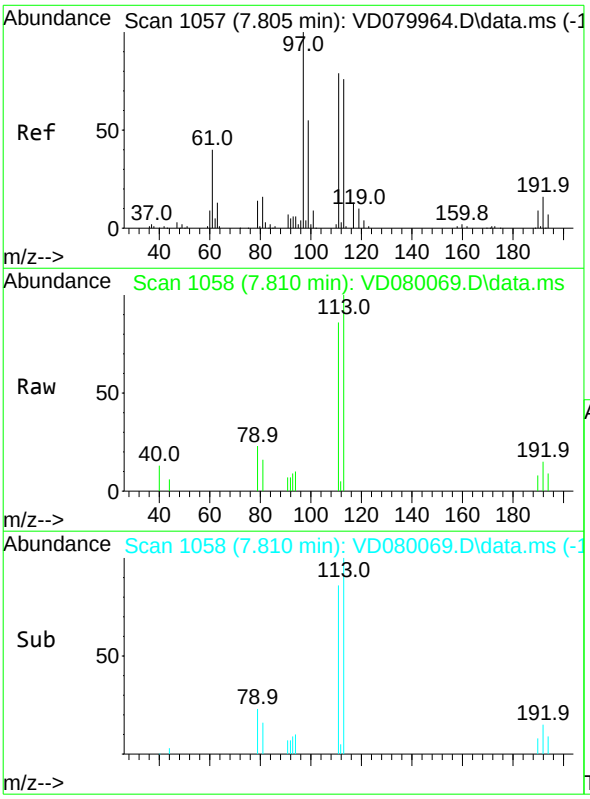

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 12
Delta R.T. 0.006 min
Lab File: VD080069.D
Acq: 18 Nov 2024 15:18

**Instrument :**
MSVOA_D
**ClientSampleId :**
COMP-2

Tgt Ion:114 Resp: 22667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 16.5 | 0.0 | 38.8 |
| 88 | 12.6 | 0.0 | 30.6 |

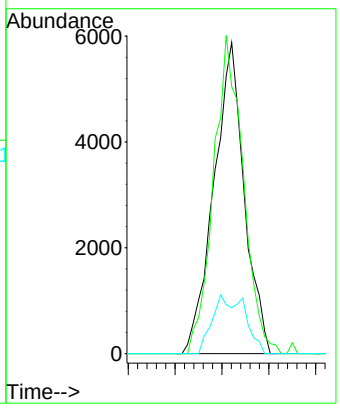


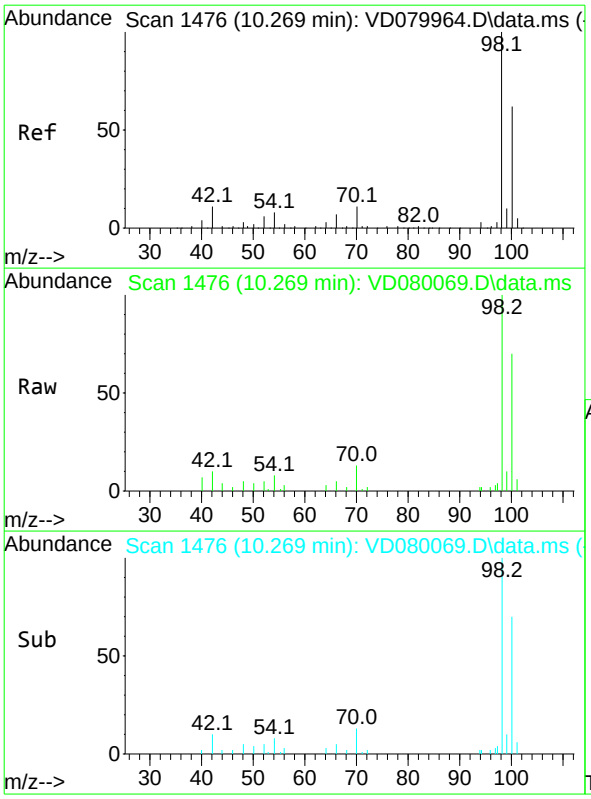




#35
Dibromofluoromethane
Concen: 87.852 ug/l
RT: 7.810 min Scan# 1058
Delta R.T. 0.005 min
Lab File: VD080069.D
Acq: 18 Nov 2024 15:18

Tgt Ion:113 Resp: 13253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 99.8 | 82.5 | 123.7 |
| 192 | 20.1 | 16.6 | 25.0 |



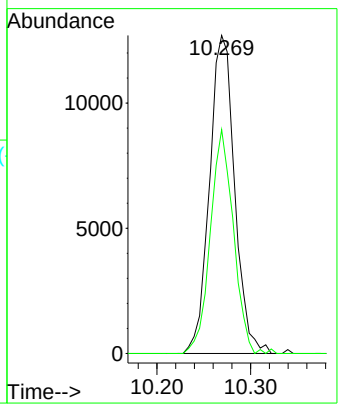


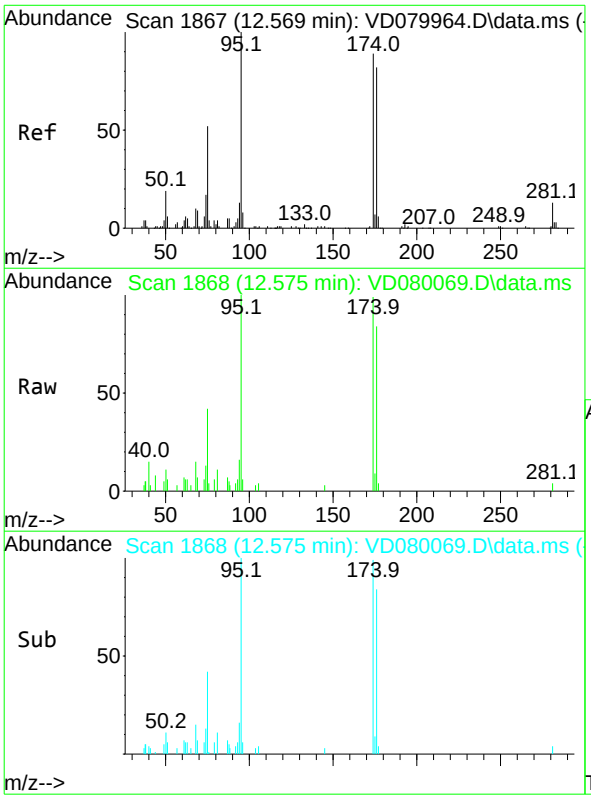

#50
Toluene-d8
Concen: 41.634 ug/l
RT: 10.269 min Scan# 14
Delta R.T. 0.000 min
Lab File: VD080069.D
Acq: 18 Nov 2024 15:18

**Instrument :**
MSVOA_D
**ClientSampleId :**
COMP-2

Tgt Ion: 98 Resp: 23672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 50.2 | 75.4 |

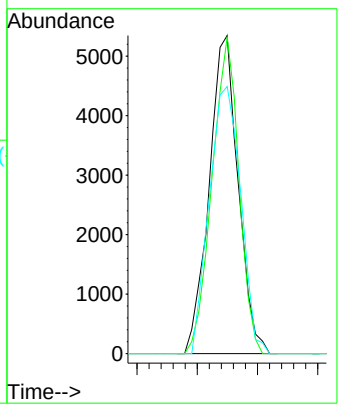


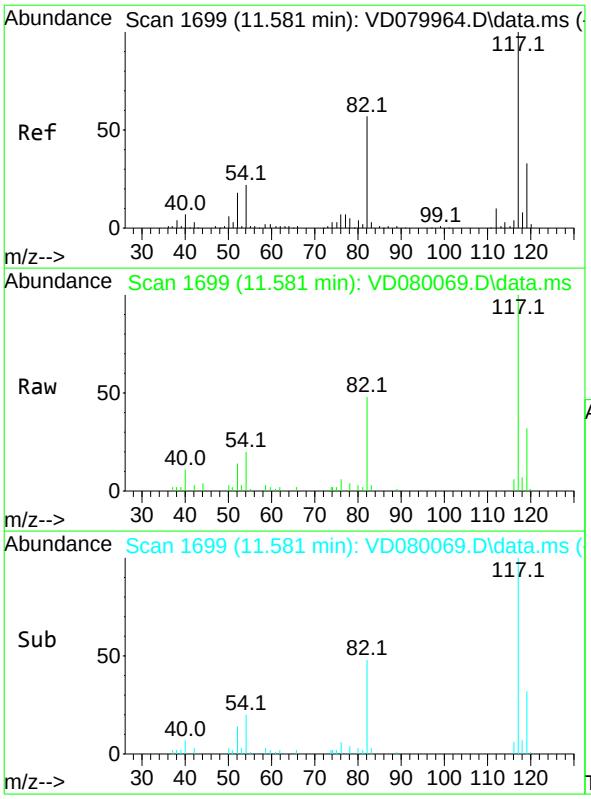




#62
4-Bromofluorobenzene
Concen: 47.844 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD080069.D
Acq: 18 Nov 2024 15:18

Tgt Ion: 95 Resp: 8925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.0 | 0.0 | 173.4 |
| 176 | 91.2 | 0.0 | 166.6 |



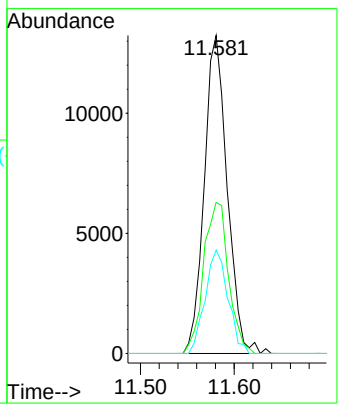


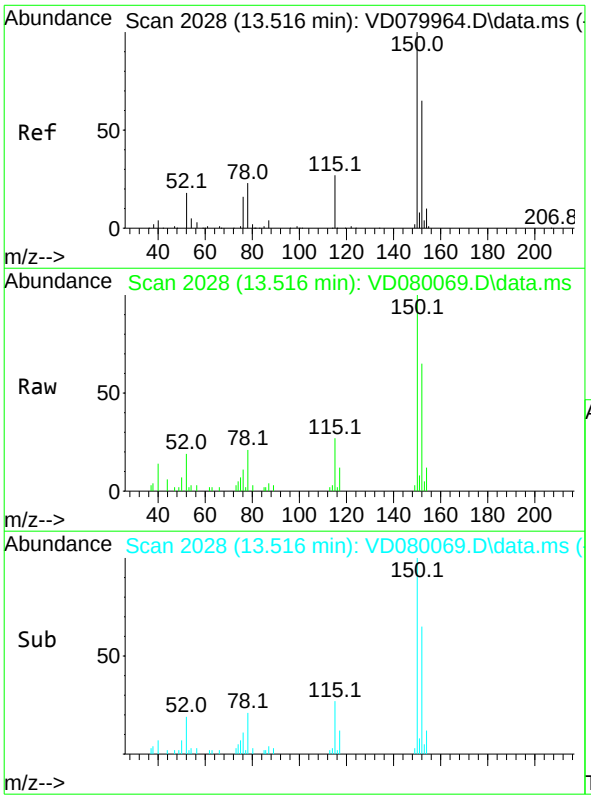

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 16
Delta R.T. -0.000 min
Lab File: VD080069.D
Acq: 18 Nov 2024 15:18

**Instrument :**
MSVOA_D
**ClientSampleId :**
COMP-2

Tgt Ion:117 Resp: 22496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 47.5 | 45.8 | 68.6 |
| 119 | 32.5 | 26.2 | 39.2 |

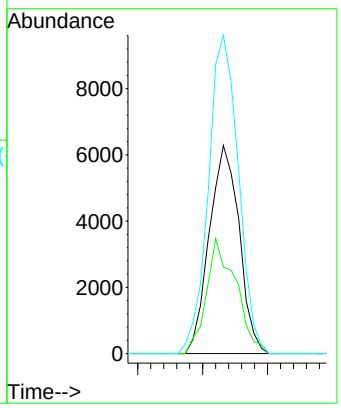



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD080069.D
Acq: 18 Nov 2024 15:18

Tgt Ion:152 Resp: 10070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.5 | 28.9 | 86.8 |
| 150 | 153.9 | 0.0 | 354.8 |



Raw Data: **VY020378.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | 11/13/24 |
| Project: | Webster School | Date Received: | 11/14/24 |
| Client Sample ID: | COMP-2RE | SDG No.: | P4852 |
| Lab Sample ID: | P4852-02RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 81.4 |
| Sample Wt/Vol: | 4.7 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020378.D | 1 | | 11/21/24 11:49 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.80 | U | 0.80 | 6.50 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.00 | U | 1.00 | 6.50 | ug/Kg |
| 71-43-2 | Benzene | 0.94 | U | 0.94 | 6.50 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.98 | U | 0.98 | 6.50 | ug/Kg |
| 108-88-3 | Toluene | 0.88 | U | 0.88 | 6.50 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.81 | U | 0.81 | 6.50 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.71 | U | 2.71 | 19.6 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.88 | U | 0.88 | 6.50 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.2 | | 50 - 163 | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.7 | | 54 - 147 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.6 | | 58 - 134 | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.1 | | 29 - 146 | 86% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 60100 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 106000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 91000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 32400 | 13.352 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VY020378.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020378.D
Acq On : 21 Nov 2024 11:49
Operator : SY/MD
Sample : P4852-02RE
Misc : 4.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2RE

Quant Time: Nov 21 13:56:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

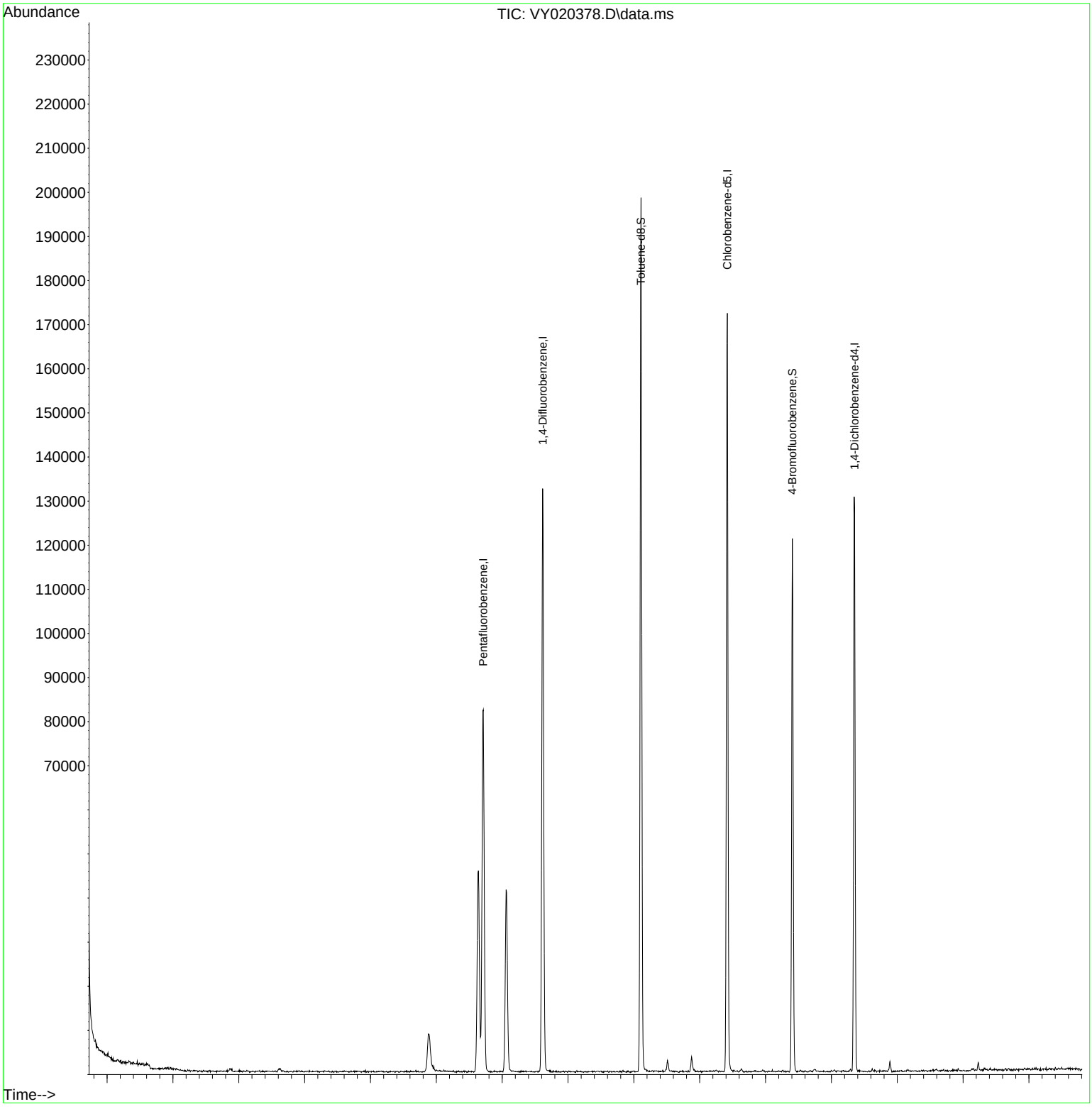
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 60112 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 106378 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 90999 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 32365 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 34672 | 50.204 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.400% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 33206 | 48.680 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 97.360% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 125212 | 46.598 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 93.200% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 37193 | 43.058 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 86.120% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.872 | 43 | 1105 | 6.674 | ug/l # | 82 |

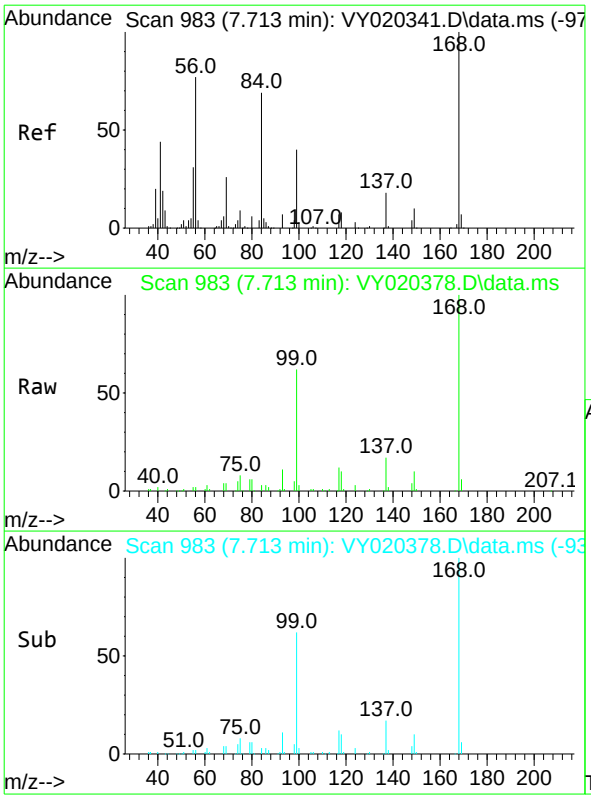
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020378.D
Acq On : 21 Nov 2024 11:49
Operator : SY/MD
Sample : P4852-02RE
Misc : 4.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2RE

Quant Time: Nov 21 13:56:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



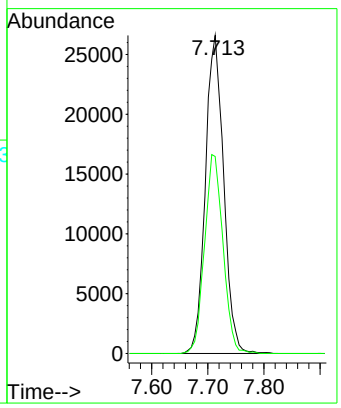


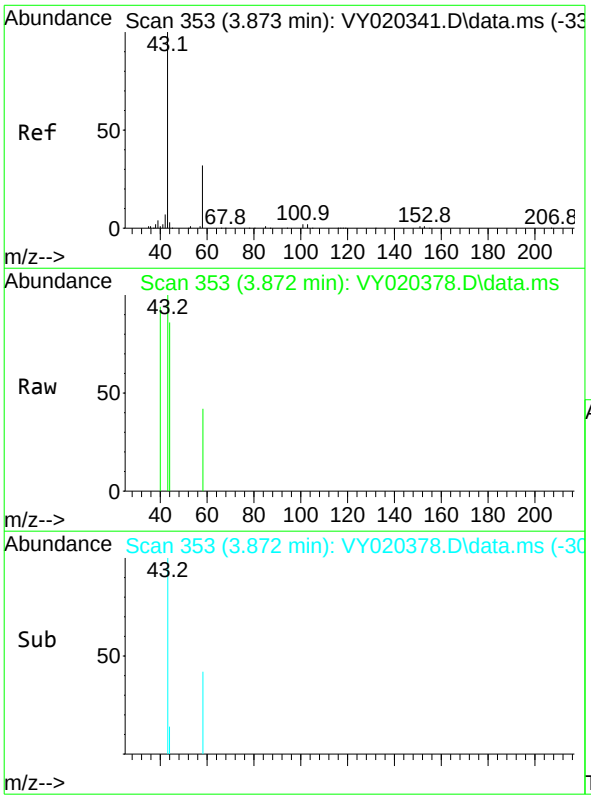

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2RE

Tgt Ion:168 Resp: 60112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.9 | 46.6 | 69.8 |

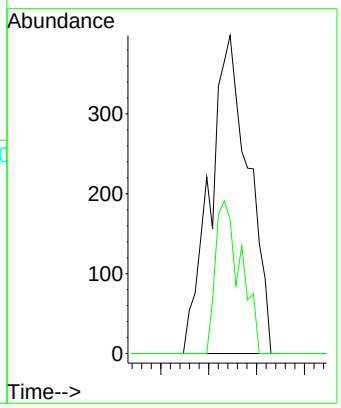


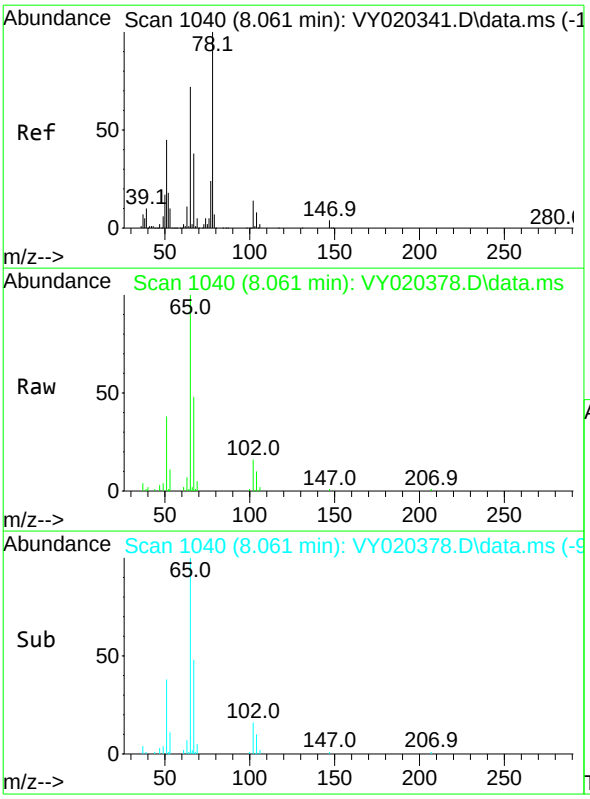




#16
Acetone
Concen: 6.674 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

Tgt Ion: 43 Resp: 1105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.2 | 25.7 | 38.5# |



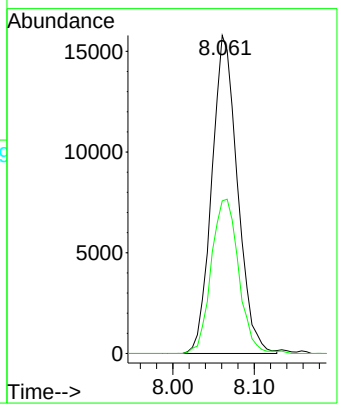


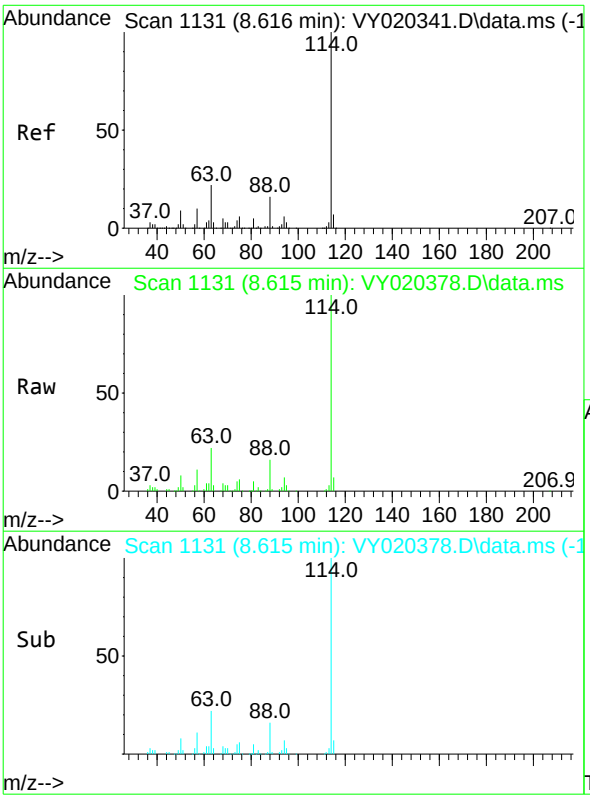

#33
1,2-Dichloroethane-d4
Concen: 50.204 ug/l
RT: 8.061 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2RE

Tgt Ion: 65 Resp: 34672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.7 | 0.0 | 105.8 |

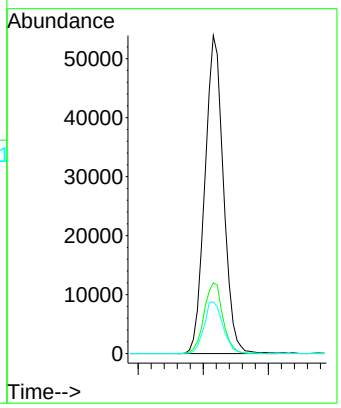


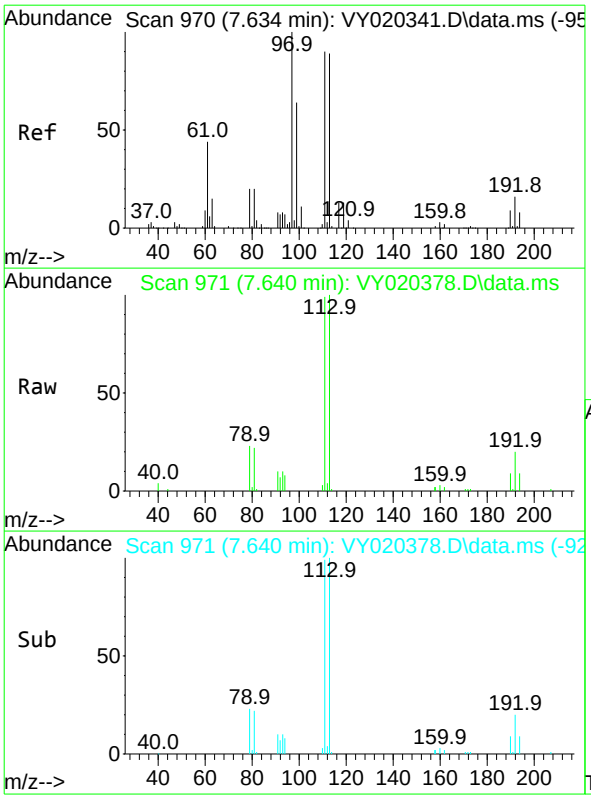




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

Tgt Ion:114 Resp: 106378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.2 | 0.0 | 44.8 |
| 88 | 16.2 | 0.0 | 32.0 |



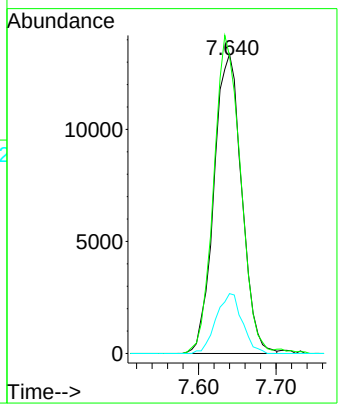


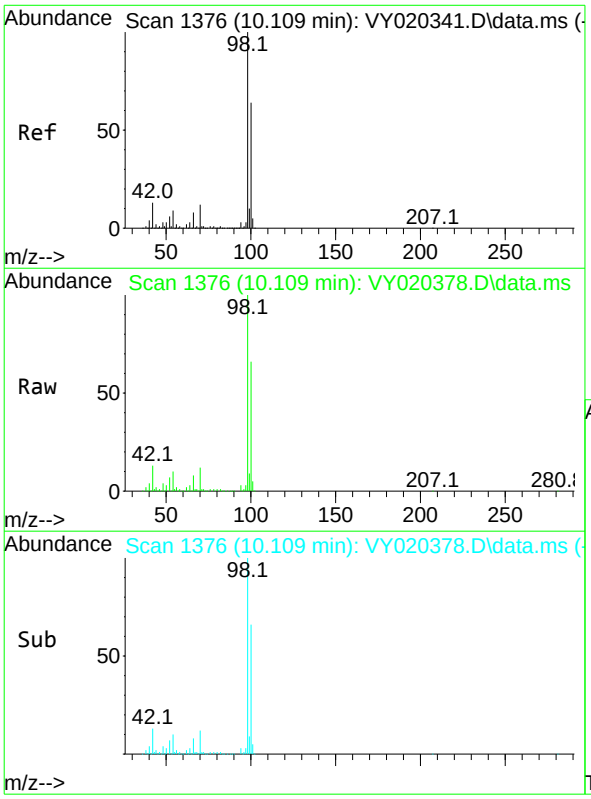

#35
Dibromofluoromethane
Concen: 48.680 ug/l
RT: 7.640 min Scan# 97
Delta R.T. 0.006 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2RE

Tgt Ion:113 Resp: 33206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 81.4 | 122.0 |
| 192 | 18.8 | 15.1 | 22.7 |

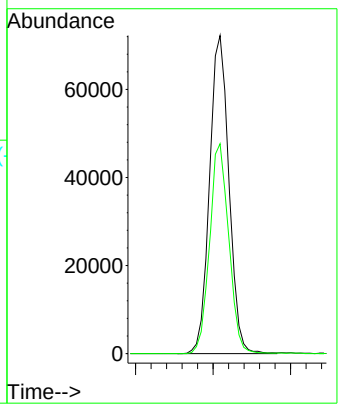


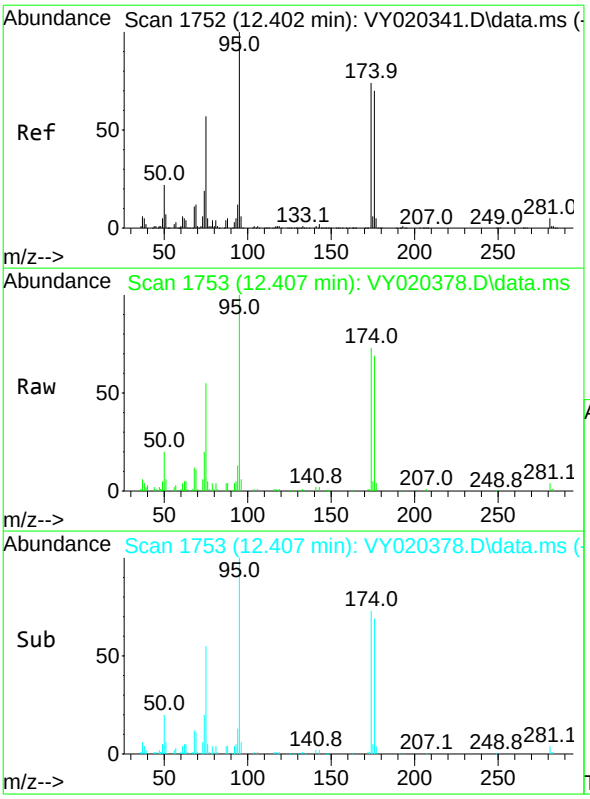




#50
Toluene-d8
Concen: 46.598 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

Tgt Ion: 98 Resp: 125212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 51.3 | 76.9 |



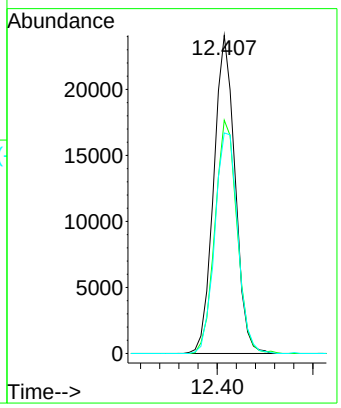


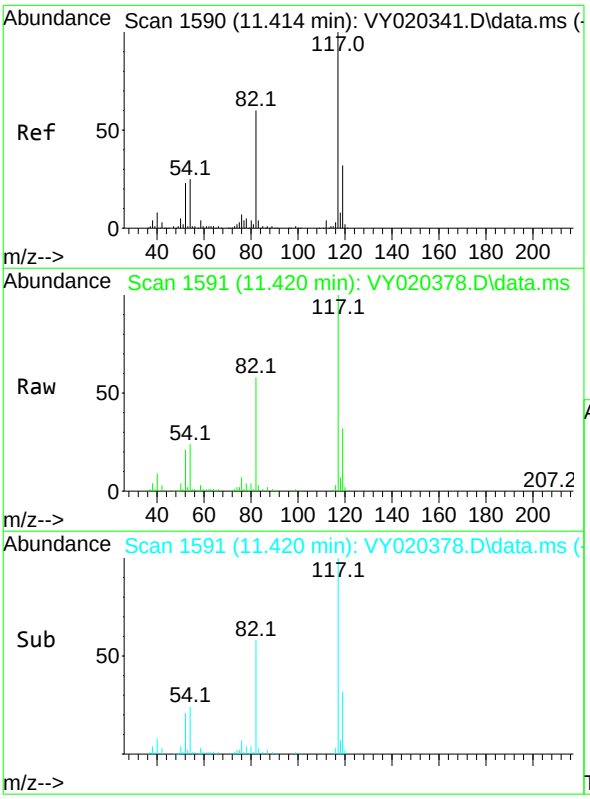

#62
4-Bromofluorobenzene
Concen: 43.058 ug/l
RT: 12.407 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2RE

Tgt Ion: 95 Resp: 37193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.0 | 0.0 | 156.8 |
| 176 | 74.7 | 0.0 | 152.0 |

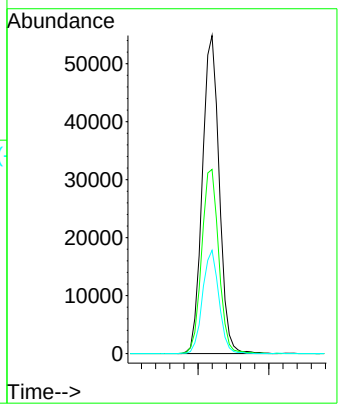


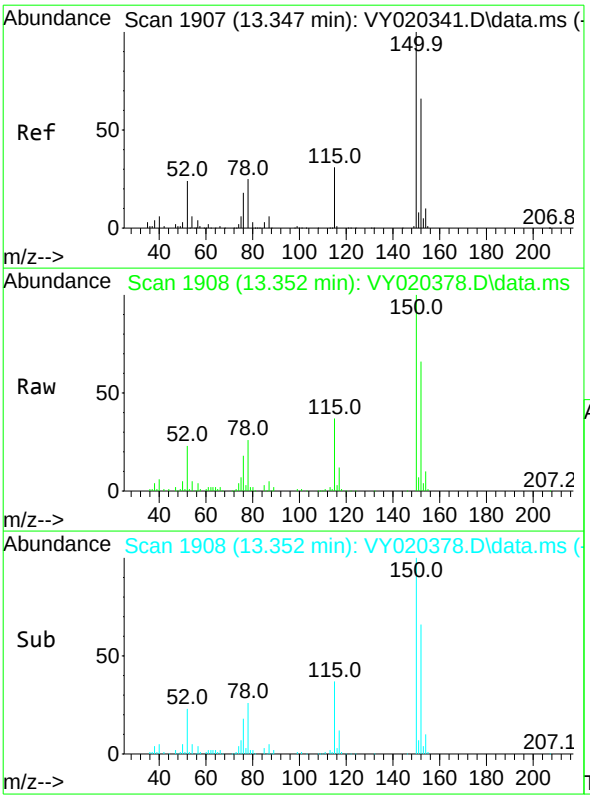




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

Tgt Ion:117 Resp: 90999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.9 | 48.2 | 72.4 |
| 119 | 32.5 | 25.8 | 38.8 |



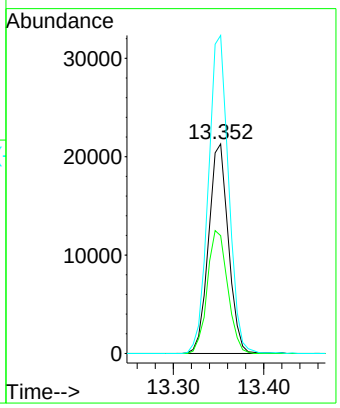



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020378.D
Acq: 21 Nov 2024 11:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2RE

Tgt Ion:152 Resp: 32365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.2 | 30.0 | 90.0 |
| 150 | 155.0 | 0.0 | 348.2 |



Raw Data: **VY020379.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | 11/13/24 |
| Project: | Webster School | Date Received: | 11/14/24 |
| Client Sample ID: | COMP-3 | SDG No.: | P4852 |
| Lab Sample ID: | P4852-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.4 |
| Sample Wt/Vol: | 5.14 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020379.D | 1 | | 11/21/24 12:12 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.67 | U | 0.67 | 5.50 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.86 | U | 0.86 | 5.50 | ug/Kg |
| 71-43-2 | Benzene | 0.79 | U | 0.79 | 5.50 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.83 | U | 0.83 | 5.50 | ug/Kg |
| 108-88-3 | Toluene | 0.74 | U | 0.74 | 5.50 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.68 | U | 0.68 | 5.50 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.27 | U | 2.27 | 16.5 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.74 | U | 0.74 | 5.50 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.2 | | 50 - 163 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.3 | | 54 - 147 | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.7 | | 58 - 134 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.8 | | 29 - 146 | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 134000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 258000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 237000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 92800 | 13.347 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020379.D
Acq On : 21 Nov 2024 12:12
Operator : SY/MD
Sample : P4852-03
Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3

Quant Time: Nov 21 13:57:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 134247 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 257659 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 237210 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 92815 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 82024 | 53.181 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 106.360% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 81524 | 49.343 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.680% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 316937 | 48.697 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.400% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 104261 | 49.833 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 99.660% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.867 | 43 | 2702 | 7.308 | ug/l # | 72 |

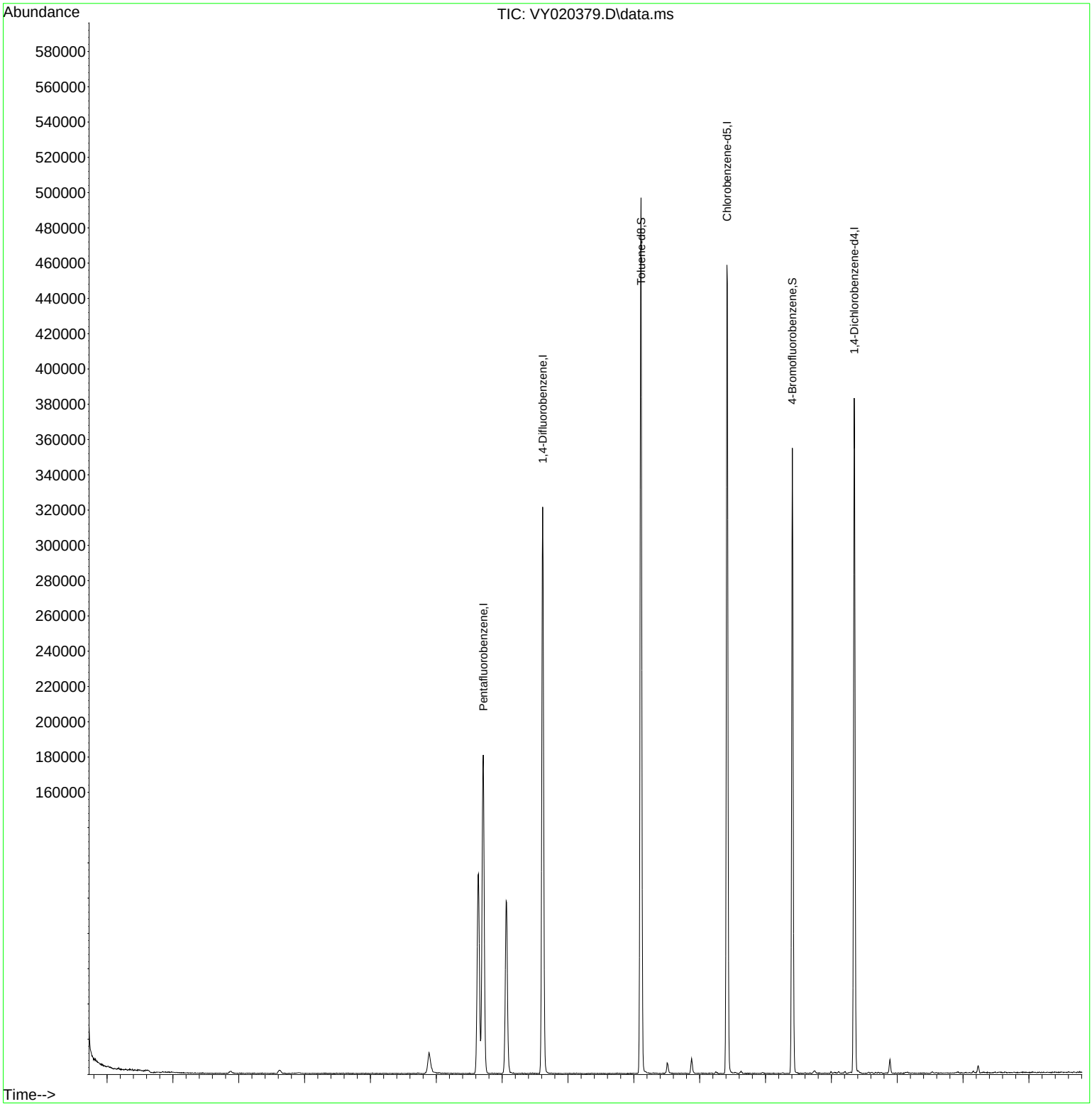
(#) = qualifier out of range (m) = manual integration (+) = signals summed

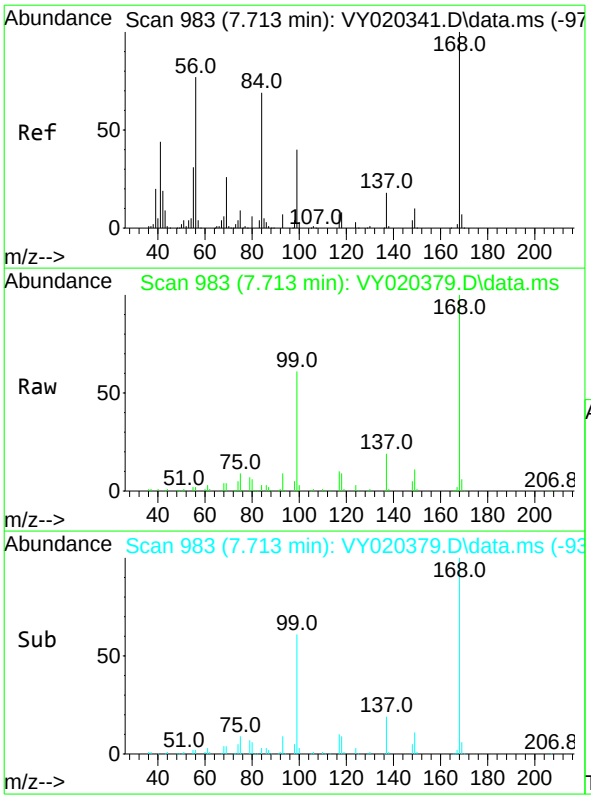
Sample Results: **VY020379.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020379.D
Acq On : 21 Nov 2024 12:12
Operator : SY/MD
Sample : P4852-03
Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3

Quant Time: Nov 21 13:57:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



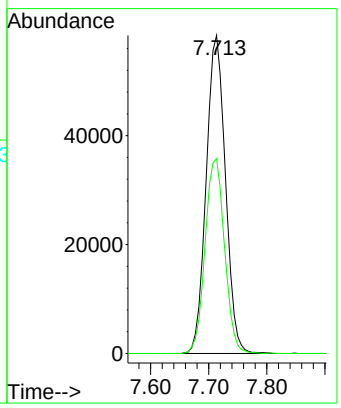


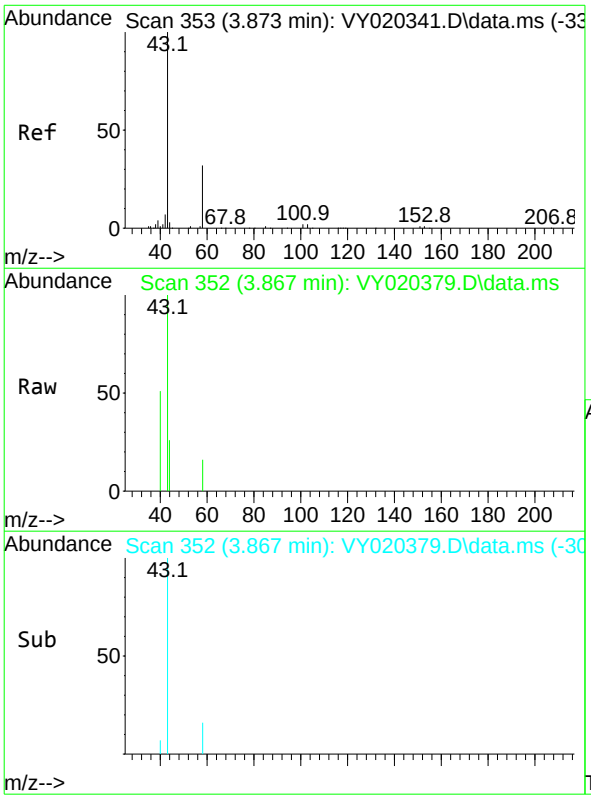

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3

Tgt Ion:168 Resp: 134247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.3 | 46.6 | 69.8 |

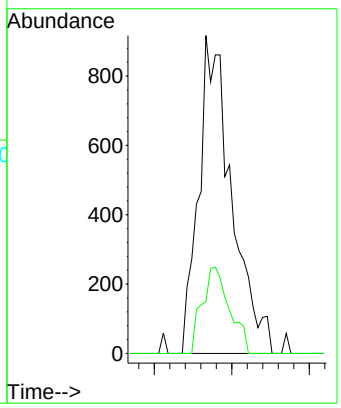


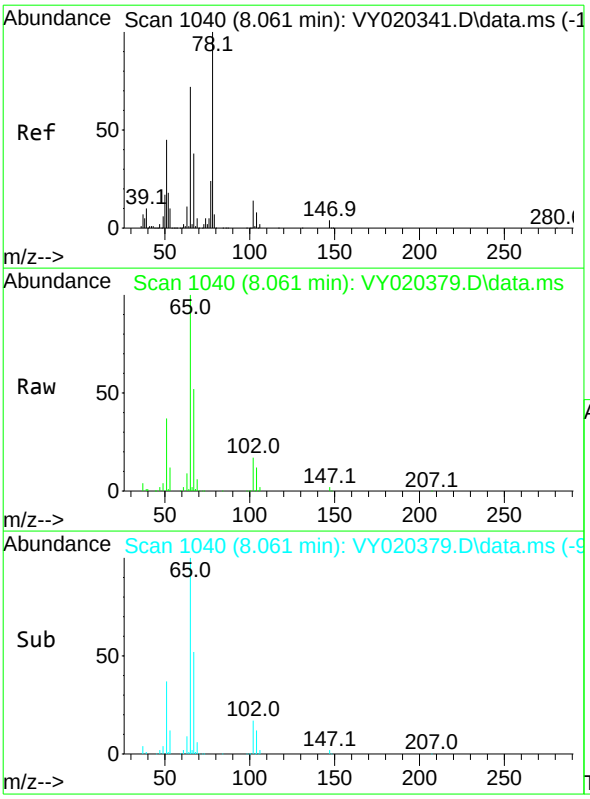




#16
Acetone
Concen: 7.308 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

Tgt Ion: 43 Resp: 2702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 16.2 | 25.7 | 38.5# |



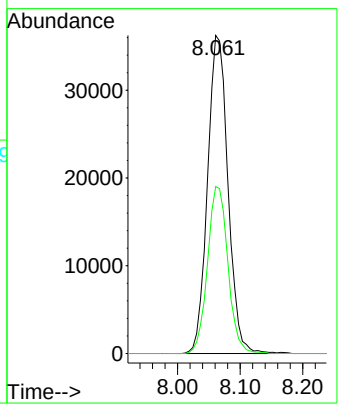


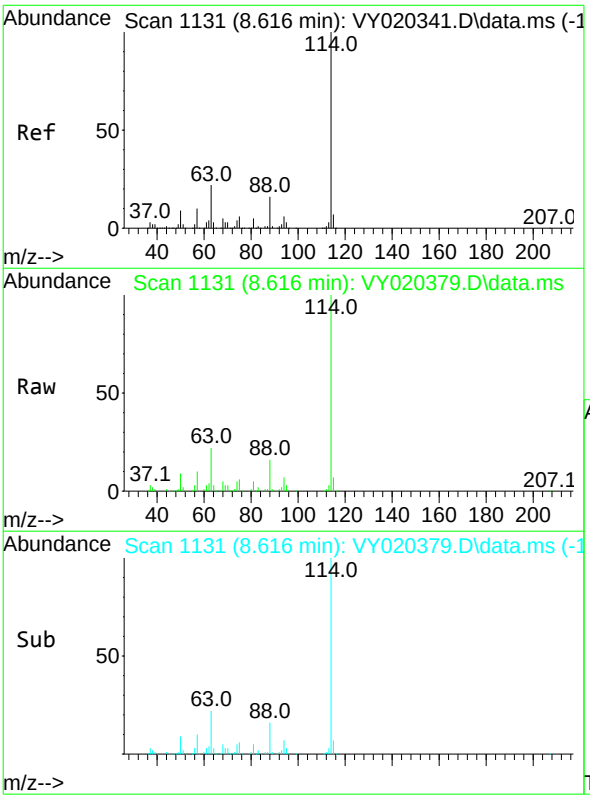

#33
1,2-Dichloroethane-d4
Concen: 53.181 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3

Tgt Ion: 65 Resp: 82024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 105.8 |

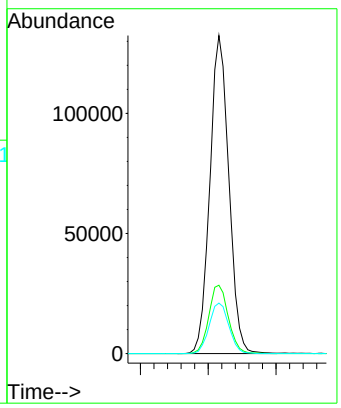


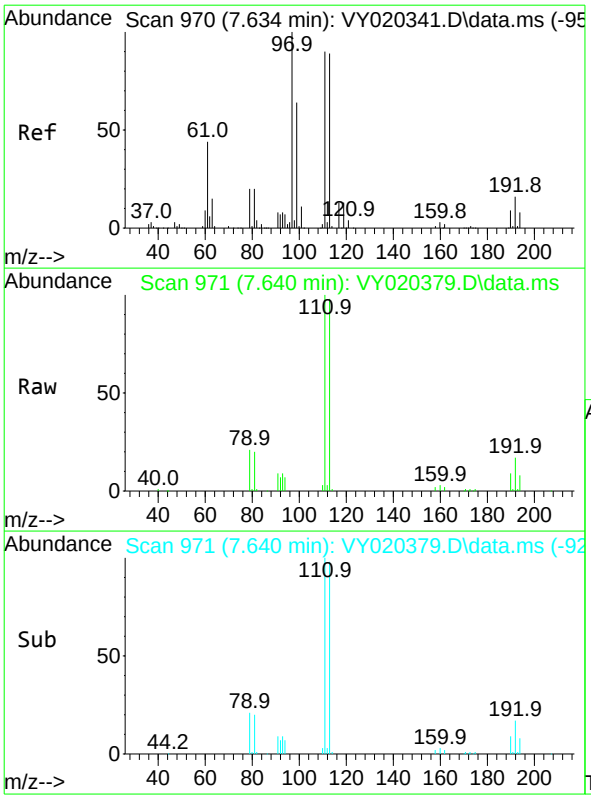




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

Tgt Ion:114 Resp: 257659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.5 | 0.0 | 44.8 |
| 88 | 15.9 | 0.0 | 32.0 |



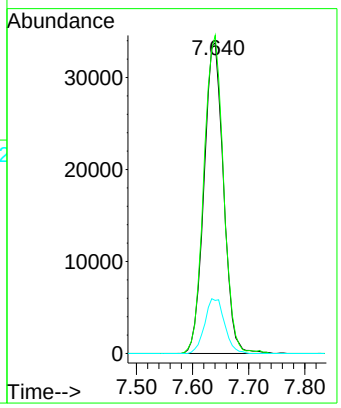


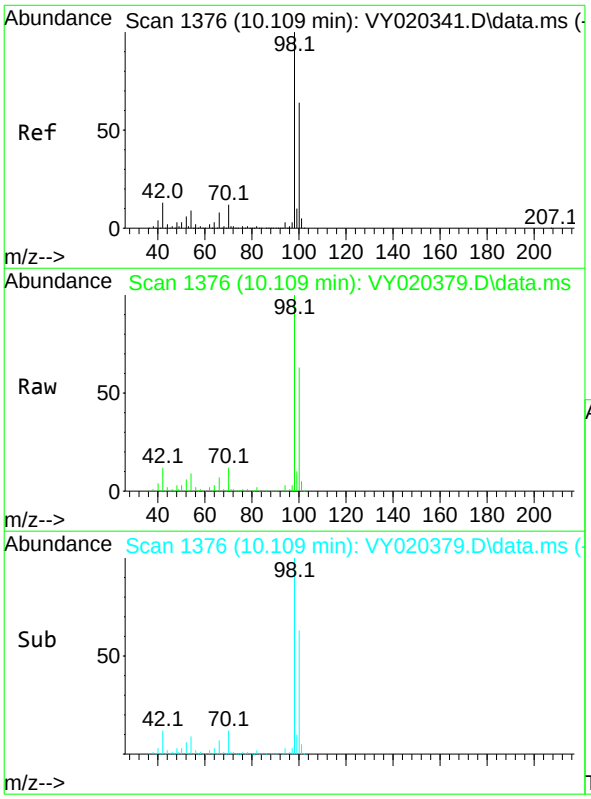

#35
Dibromofluoromethane
Concen: 49.343 ug/l
RT: 7.640 min Scan# 97
Delta R.T. 0.006 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3

Tgt Ion:113 Resp: 81524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 81.4 | 122.0 |
| 192 | 18.0 | 15.1 | 22.7 |

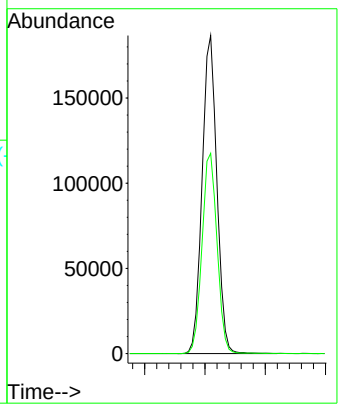


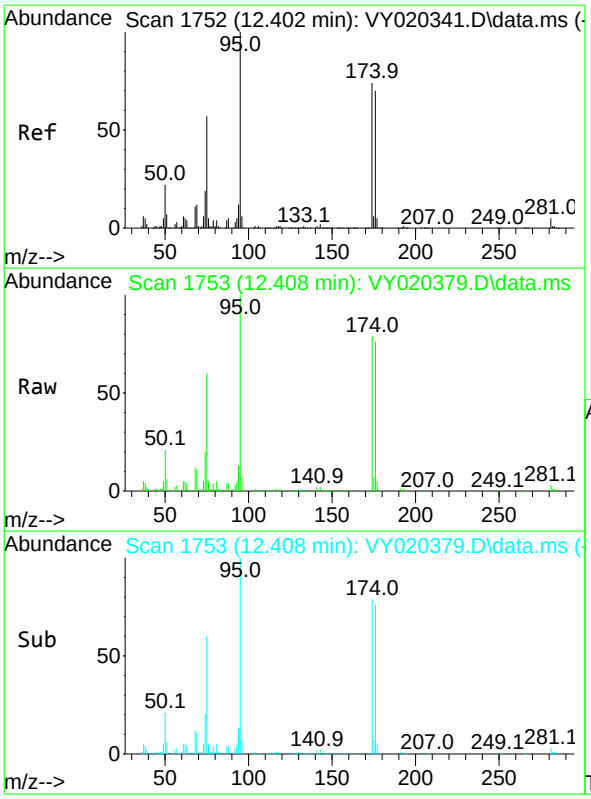




#50
Toluene-d8
Concen: 48.697 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

Tgt Ion: 98 Resp: 316937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 51.3 | 76.9 |



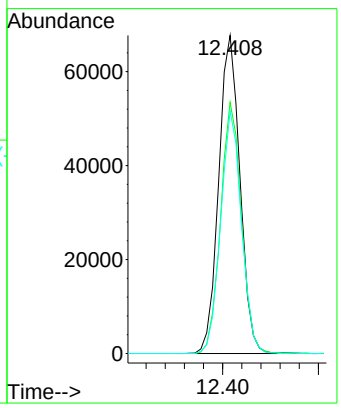


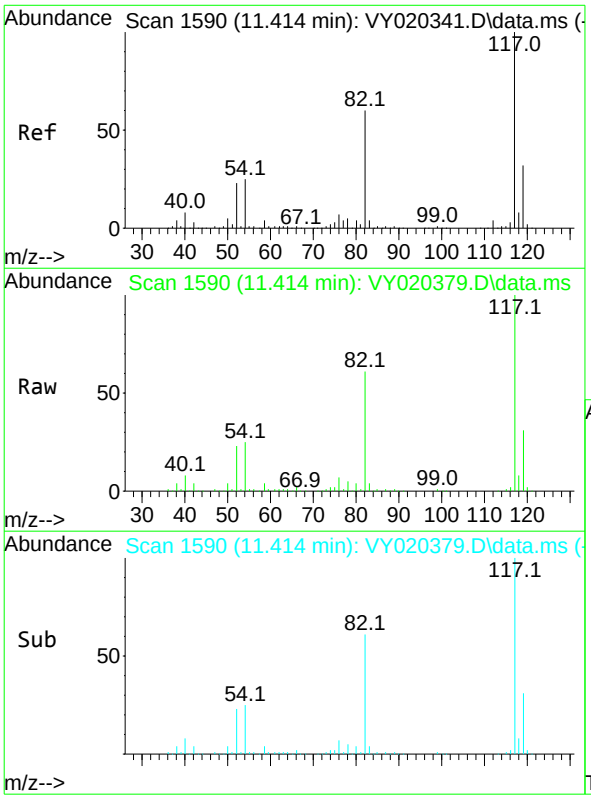

#62
4-Bromofluorobenzene
Concen: 49.833 ug/l
RT: 12.408 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3

Tgt Ion: 95 Resp: 104261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.4 | 0.0 | 156.8 |
| 176 | 74.7 | 0.0 | 152.0 |

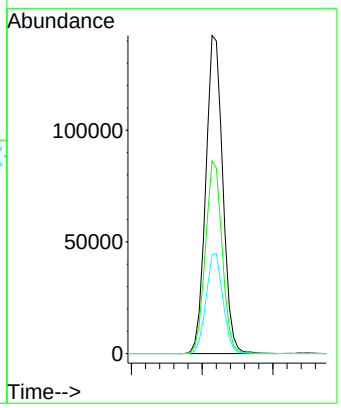


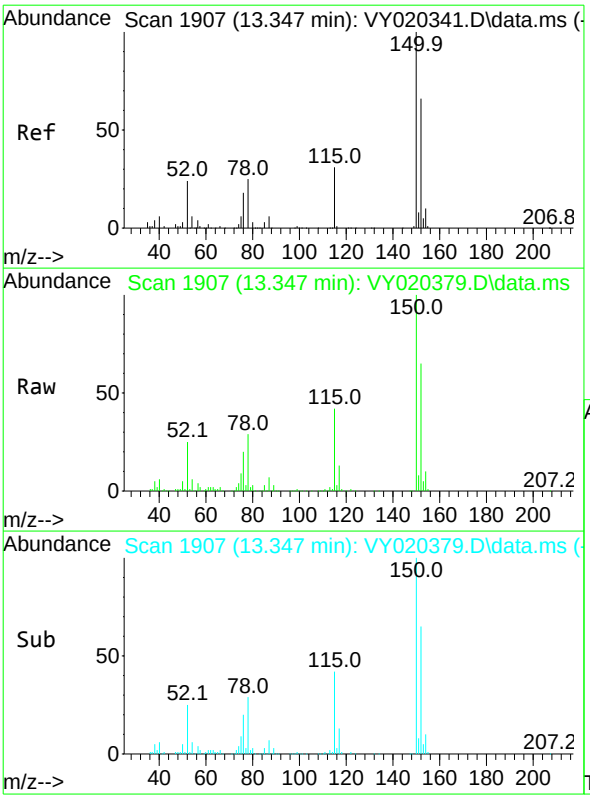




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

Tgt Ion:117 Resp: 237210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.6 | 48.2 | 72.4 |
| 119 | 31.1 | 25.8 | 38.8 |



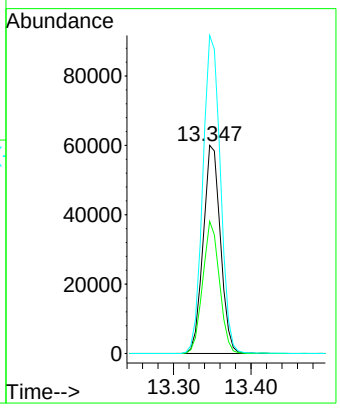



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020379.D
Acq: 21 Nov 2024 12:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3

Tgt Ion:152 Resp: 92815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.3 | 30.0 | 90.0 |
| 150 | 155.5 | 0.0 | 348.2 |



# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: MSVOA_D Calibration Date(s): 11/15/2024 11/15/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:04 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD080020.D RRF010 = VD080021.D RRF020 = VD080022.D
RRF050 = VD080023.D RRF100 = VD080024.D RRF150 = VD080025.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.665 | 0.649 | 0.620 | 0.656 | 0.675 | 0.679 | 0.657 | 3.2 |
| 1,1,1-Trichloroethane | 0.970 | 0.930 | 0.851 | 0.869 | 0.864 | 0.867 | 0.892 | 5.3 |
| Benzene | 1.391 | 1.430 | 1.351 | 1.436 | 1.439 | 1.463 | 1.418 | 2.8 |
| Trichloroethene | 0.378 | 0.389 | 0.341 | 0.361 | 0.361 | 0.372 | 0.367 | 4.5 |
| Toluene | 0.814 | 0.864 | 0.823 | 0.917 | 0.927 | 0.945 | 0.881 | 6.4 |
| Ethyl Benzene | 1.740 | 1.714 | 1.693 | 1.866 | 1.965 | 2.002 | 1.830 | 7.3 |
| m/p-Xylenes | 0.647 | 0.688 | 0.683 | 0.727 | 0.766 | 0.780 | 0.715 | 7.2 |
| o-Xylene | 0.542 | 0.595 | 0.604 | 0.670 | 0.720 | 0.726 | 0.643 | 11.5 |
| Isopropylbenzene | 3.045 | 3.093 | 2.974 | 3.271 | 3.463 | 3.501 | 3.224 | 6.9 |
| 1,2-Dichloroethane-d4 | 0.554 | 0.532 | 0.451 | 0.526 | 0.504 | 0.523 | 0.515 | 6.8 |
| Dibromofluoromethane | 0.335 | 0.357 | 0.285 | 0.338 | 0.329 | 0.354 | 0.333 | 7.8 |
| Toluene-d8 | 1.162 | 1.249 | 1.087 | 1.330 | 1.303 | 1.393 | 1.254 | 9 |
| 4-Bromofluorobenzene | 0.388 | 0.392 | 0.353 | 0.435 | 0.437 | 0.464 | 0.411 | 9.9 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report MSVOA_D

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
Method File : 82D111424S.M
Title : SW846 8260
Last Update : Fri Nov 15 06:28:05 2024
Response Via : Initial Calibration

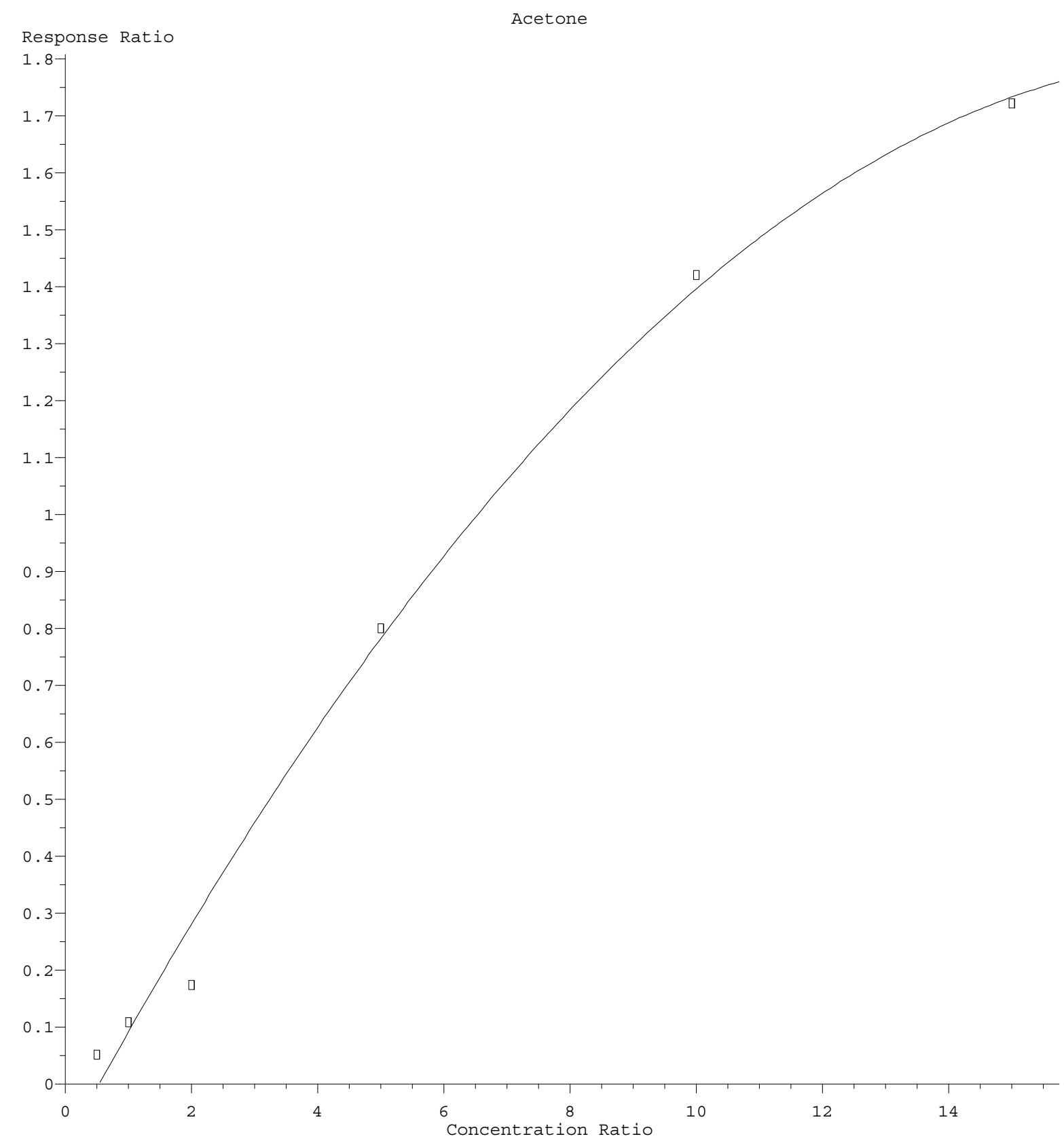
Calibration Files
5 =VD080011.D 10 =VD080012.D 20 =VD080013.D 50 =VD080014.D 100 =VD080015.D 150 =VD080016.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.505 | 0.393 | 0.379 | 0.469 | 0.345 | 0.402 | 0.416 | 14.37 |
| 3) | P | Chloromethane | 0.351 | 0.335 | 0.269 | 0.337 | 0.268 | 0.273 | 0.305 | 12.87 |
| 4) | C | Vinyl Chloride | 0.408 | 0.413 | 0.309 | 0.403 | 0.299 | 0.315 | 0.358 | 15.51# |
| 5) | T | Bromomethane | 0.599 | 0.553 | 0.394 | 0.425 | 0.302 | 0.329 | 0.434 | 27.54 |
| 6) | T | Chloroethane | 0.255 | 0.300 | 0.212 | 0.284 | 0.199 | 0.207 | 0.243 | 17.79 |
| 7) | T | Trichlorofluor... | 1.045 | 0.886 | 0.781 | 0.943 | 0.705 | 0.781 | 0.857 | 14.59 |
| 8) | T | Diethyl Ether | 0.241 | 0.225 | 0.211 | 0.263 | 0.237 | 0.245 | 0.237 | 7.47 |
| 9) | T | 1,1,2-Trichlor... | 0.659 | 0.551 | 0.498 | 0.573 | 0.456 | 0.507 | 0.541 | 13.16 |
| 10) | T | Methyl Iodide | 0.172 | 0.226 | 0.385 | 0.681 | 0.632 | 0.787 | 0.480 | 53.20 |
| 11) | T | Tert butyl alc... | 0.030 | 0.028 | 0.025 | 0.027 | 0.024 | 0.025 | 0.026 | 9.67 |
| 12) | CM | 1,1-Dichloroet... | 0.565 | 0.496 | 0.479 | 0.571 | 0.477 | 0.526 | 0.519 | 8.11# |
| 13) | T | Acrolein | 0.041 | 0.044 | 0.043 | 0.058 | 0.055 | 0.049 | 0.048 | 14.55 |
| 14) | T | Allyl chloride | 0.668 | 0.645 | 0.578 | 0.818 | 0.701 | 0.812 | 0.704 | 13.54 |
| 15) | T | Acrylonitrile | 0.093 | 0.093 | 0.093 | 0.114 | 0.103 | 0.111 | 0.101 | 9.27 |
| 16) | T | Acetone | 0.103 | 0.109 | 0.087 | 0.160 | 0.142 | 0.115 | 0.119 | 22.56 |
| 17) | T | Carbon Disulfide | 1.881 | 1.771 | 1.518 | 1.912 | 1.539 | 1.637 | 1.710 | 9.97 |
| 18) | T | Methyl Acetate | 0.256 | 0.225 | 0.199 | 0.267 | 0.235 | 0.253 | 0.239 | 10.48 |
| 19) | T | Methyl tert-bu... | 0.985 | 0.889 | 0.950 | 1.183 | 1.056 | 1.178 | 1.040 | 11.66 |
| 20) | T | Methylene Chlo... | 0.771 | 0.661 | 0.576 | 0.669 | 0.549 | 0.605 | 0.638 | 12.53 |
| 21) | T | trans-1,2-Dich... | 0.612 | 0.547 | 0.534 | 0.652 | 0.534 | 0.609 | 0.581 | 8.58 |
| 22) | T | Diisopropyl ether | 1.334 | 1.305 | 1.475 | 1.713 | 1.441 | 1.612 | 1.480 | 10.70 |
| 23) | T | Vinyl Acetate | 0.703 | 0.721 | 0.811 | 0.969 | 0.856 | 0.931 | 0.832 | 13.02 |
| 24) | P | 1,1-Dichloroet... | 1.023 | 0.975 | 0.982 | 1.080 | 0.894 | 1.011 | 0.994 | 6.20 |
| 25) | T | 2-Butanone | 0.161 | 0.128 | 0.135 | 0.179 | 0.158 | 0.161 | 0.154 | 12.27 |
| 26) | T | 2,2-Dichloropr... | 1.073 | 0.864 | 0.825 | 0.939 | 0.764 | 0.870 | 0.889 | 12.03 |
| 27) | T | cis-1,2-Dichlo... | 0.738 | 0.592 | 0.610 | 0.736 | 0.622 | 0.709 | 0.668 | 10.04 |
| 28) | T | Bromochloromet... | 0.532 | 0.448 | 0.433 | 0.443 | 0.424 | 0.395 | 0.446 | 10.41 |
| 29) | T | Tetrahydrofuran | 0.087 | 0.068 | 0.077 | 0.088 | 0.079 | 0.083 | 0.080 | 9.14 |
| 30) | C | Chloroform | 1.330 | 1.090 | 1.028 | 1.162 | 0.947 | 1.061 | 1.103 | 11.95# |
| 31) | T | Cyclohexane | 1.004 | 0.798 | 0.765 | 0.901 | 0.732 | 0.847 | 0.841 | 11.85 |
| 32) | T | 1,1,1-Trichlor... | 1.089 | 0.879 | 0.867 | 0.993 | 0.791 | 0.906 | 0.921 | 11.41 |
| 33) | S | 1,2-Dichloroet... | 0.599 | 0.493 | 0.534 | 0.485 | 0.456 | 0.508 | 0.513 | 9.66 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.356 | 0.314 | 0.343 | 0.336 | 0.304 | 0.353 | 0.334 | 6.34 |
| 36) | T | 1,1-Dichloropr... | 0.546 | 0.457 | 0.445 | 0.549 | 0.428 | 0.501 | 0.488 | 10.73 |
| 37) | T | Ethyl Acetate | 0.241 | 0.192 | 0.188 | 0.214 | 0.184 | 0.196 | 0.203 | 10.59 |
| 38) | T | Carbon Tetrach... | 0.636 | 0.534 | 0.500 | 0.572 | 0.444 | 0.529 | 0.536 | 12.12 |
| 39) | T | Methylcyclohexane | 0.600 | 0.498 | 0.510 | 0.645 | 0.519 | 0.642 | 0.569 | 11.95 |
| 40) | TM | Benzene | 1.646 | 1.379 | 1.401 | 1.694 | 1.341 | 1.580 | 1.507 | 10.05 |
| 41) | T | Methacrylonitrile | 0.128 | 0.084 | 0.108 | 0.111 | 0.108 | 0.110 | 0.108 | 13.01 |
| 42) | TM | 1,2-Dichloroet... | 0.459 | 0.370 | 0.380 | 0.430 | 0.342 | 0.387 | 0.395 | 10.77 |
| 43) | T | Isopropyl Acetate | 0.408 | 0.337 | 0.340 | 0.402 | 0.342 | 0.380 | 0.368 | 8.82 |
| 44) | TM | Trichloroethene | 0.433 | 0.364 | 0.370 | 0.425 | 0.340 | 0.399 | 0.389 | 9.38 |
| 45) | C | 1,2-Dichloropr... | 0.387 | 0.328 | 0.340 | 0.404 | 0.322 | 0.370 | 0.359 | 9.32# |
| 46) | T | Dibromomethane | 0.235 | 0.198 | 0.201 | 0.231 | 0.190 | 0.210 | 0.211 | 8.68 |
| 47) | T | Bromodichlorom... | 0.592 | 0.493 | 0.499 | 0.590 | 0.460 | 0.537 | 0.528 | 10.24 |
| 48) | T | Methyl methacr... | 0.172 | 0.120 | 0.151 | 0.191 | 0.165 | 0.188 | 0.165 | 16.12 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 9.81 |
| 50) | S | Toluene-d8 | 1.298 | 1.140 | 1.273 | 1.289 | 1.194 | 1.394 | 1.265 | 7.01 |
| 51) | T | 4-Methyl-2-Pen... | 0.188 | 0.159 | 0.181 | 0.211 | 0.180 | 0.194 | 0.186 | 9.39 |
| 52) | CM | Toluene | 0.946 | 0.834 | 0.872 | 1.085 | 0.871 | 1.022 | 0.938 | 10.49# |
| 53) | T | t-1,3-Dichloro... | 0.462 | 0.415 | 0.425 | 0.515 | 0.429 | 0.501 | 0.458 | 9.17 |
| 54) | T | cis-1,3-Dichlo... | 0.559 | 0.488 | 0.516 | 0.623 | 0.513 | 0.594 | 0.549 | 9.53 |
| 55) | T | 1,1,2-Trichlor... | 0.322 | 0.282 | 0.270 | 0.297 | 0.241 | 0.276 | 0.281 | 9.61 |

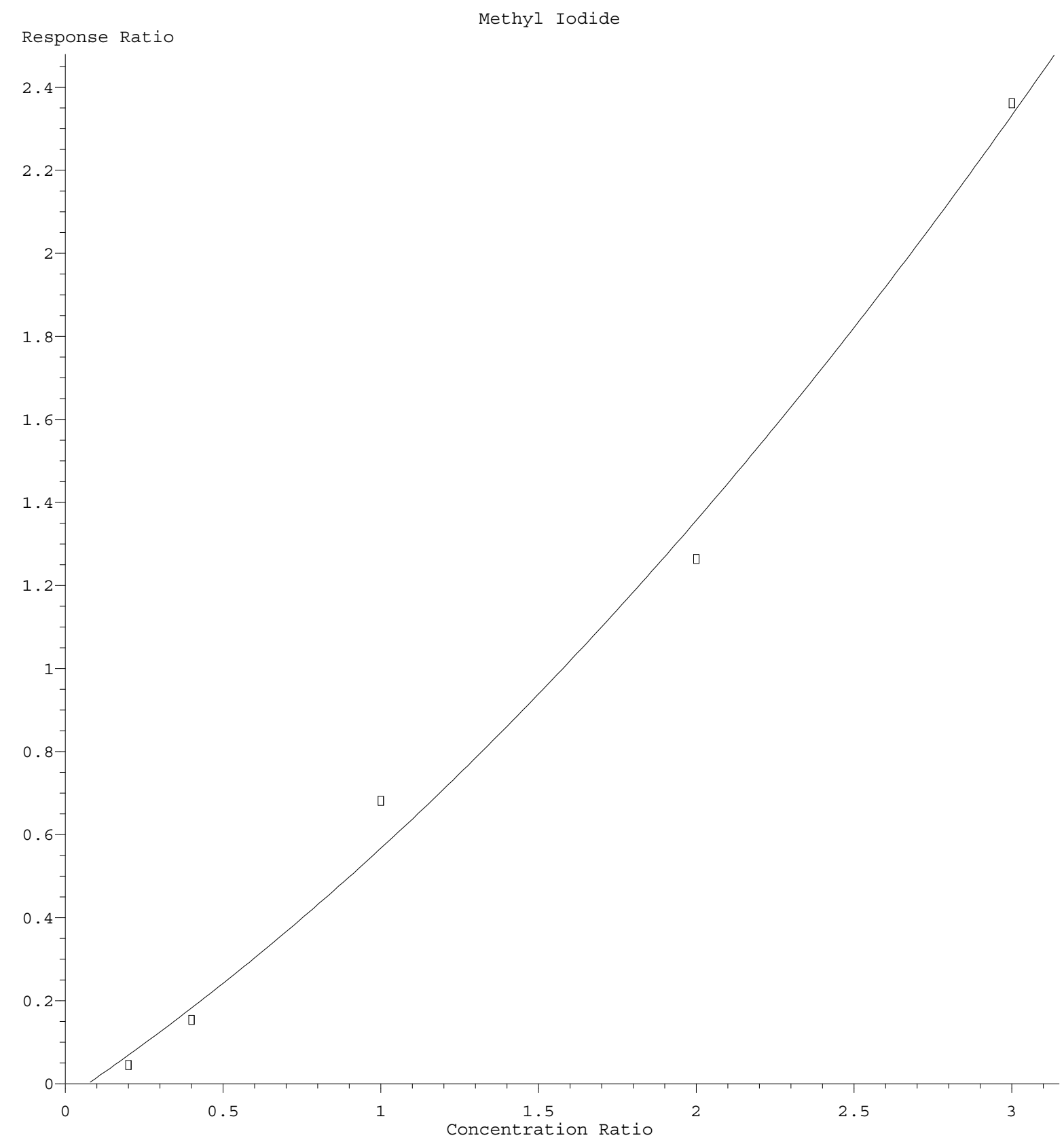
Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
Method File : 82D111424S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 56) | T | Ethyl methacry... | 0.314 | 0.255 | 0.292 | 0.373 | 0.323 | 0.363 | 0.320 | 13.72 |
| 57) | T | 1,3-Dichloropr... | 0.503 | 0.415 | 0.434 | 0.499 | 0.408 | 0.471 | 0.455 | 9.16 |
| 58) | T | 2-Chloroethyl ... | 0.102 | 0.097 | 0.104 | 0.120 | 0.128 | 0.134 | 0.114 | 13.20 |
| 59) | T | 2-Hexanone | 0.137 | 0.112 | 0.130 | 0.173 | 0.149 | 0.152 | 0.142 | 14.56 |
| 60) | T | Dibromochlorom... | 0.429 | 0.345 | 0.354 | 0.403 | 0.332 | 0.374 | 0.373 | 9.94 |
| 61) | T | 1,2-Dibromoethane | 0.298 | 0.240 | 0.255 | 0.286 | 0.238 | 0.268 | 0.264 | 9.26 |
| 62) | S | 4-Bromofluorob... | 0.451 | 0.381 | 0.419 | 0.434 | 0.398 | 0.461 | 0.424 | 7.27 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.437 | 0.360 | 0.342 | 0.409 | 0.338 | 0.379 | 0.377 | 10.43 |
| 65) | PM | Chlorobenzene | 1.308 | 1.066 | 1.046 | 1.242 | 1.028 | 1.183 | 1.146 | 10.10 |
| 66) | T | 1,1,1,2-Tetrac... | 0.457 | 0.390 | 0.372 | 0.448 | 0.358 | 0.418 | 0.407 | 9.88 |
| 67) | C | Ethyl Benzene | 1.893 | 1.624 | 1.732 | 2.189 | 1.807 | 2.131 | 1.896 | 11.78# |
| 68) | T | m/p-Xylenes | 0.742 | 0.644 | 0.696 | 0.872 | 0.711 | 0.822 | 0.748 | 11.32 |
| 69) | T | o-Xylene | 0.642 | 0.589 | 0.616 | 0.788 | 0.660 | 0.779 | 0.679 | 12.48 |
| 70) | T | Styrene | 1.147 | 1.032 | 1.129 | 1.401 | 1.171 | 1.363 | 1.207 | 11.92 |
| 71) | P | Bromoform | 0.256 | 0.220 | 0.219 | 0.251 | 0.206 | 0.228 | 0.230 | 8.57 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.296 | 2.760 | 2.940 | 3.794 | 3.065 | 3.853 | 3.285 | 13.78 |
| 74) | T | N-amyl acetate | 0.740 | 0.578 | 0.658 | 0.780 | 0.673 | 0.777 | 0.701 | 11.28 |
| 75) | P | 1,1,2,2-Tetrac... | 0.763 | 0.591 | 0.600 | 0.675 | 0.551 | 0.631 | 0.635 | 11.83 |
| 76) | T | 1,2,3-Trichlor... | 0.486 | 0.381 | 0.470 | 0.442 | 0.366 | 0.413 | 0.426 | 11.35 |
| 77) | T | Bromobenzene | 0.939 | 0.746 | 0.789 | 0.977 | 0.785 | 0.952 | 0.865 | 11.76 |
| 78) | T | n-propylbenzene | 4.120 | 3.426 | 3.718 | 4.726 | 3.776 | 4.621 | 4.065 | 12.83 |
| 79) | T | 2-Chlorotoluene | 2.558 | 2.121 | 2.195 | 2.718 | 2.194 | 2.709 | 2.416 | 11.45 |
| 80) | T | 1,3,5-Trimethy... | 2.678 | 2.328 | 2.545 | 3.247 | 2.617 | 3.254 | 2.778 | 13.84 |
| 81) | T | trans-1,4-Dich... | 0.239 | 0.194 | 0.211 | 0.242 | 0.202 | 0.234 | 0.220 | 9.32 |
| 82) | T | 4-Chlorotoluene | 2.725 | 2.275 | 2.373 | 2.903 | 2.301 | 2.816 | 2.565 | 10.93 |
| 83) | T | tert-Butylbenzene | 2.428 | 1.964 | 2.140 | 2.805 | 2.272 | 2.774 | 2.397 | 14.20 |
| 84) | T | 1,2,4-Trimethy... | 2.673 | 2.329 | 2.613 | 3.303 | 2.694 | 3.335 | 2.824 | 14.33 |
| 85) | T | sec-Butylbenzene | 3.549 | 3.083 | 3.293 | 4.180 | 3.302 | 4.137 | 3.591 | 12.93 |
| 86) | T | p-Isopropyltol... | 2.997 | 2.535 | 2.749 | 3.554 | 2.871 | 3.573 | 3.047 | 14.07 |
| 87) | T | 1,3-Dichlorobe... | 2.057 | 1.622 | 1.635 | 1.950 | 1.562 | 1.911 | 1.790 | 11.60 |
| 88) | T | 1,4-Dichlorobe... | 2.259 | 1.655 | 1.623 | 1.909 | 1.522 | 1.843 | 1.802 | 14.77 |
| 89) | T | n-Butylbenzene | 2.926 | 2.381 | 2.482 | 3.286 | 2.638 | 3.280 | 2.832 | 13.94 |
| 90) | T | Hexachloroethane | 0.792 | 0.601 | 0.597 | 0.729 | 0.570 | 0.696 | 0.664 | 13.29 |
| 91) | T | 1,2-Dichlorobe... | 1.826 | 1.396 | 1.437 | 1.747 | 1.357 | 1.623 | 1.564 | 12.54 |
| 92) | T | 1,2-Dibromo-3-... | 0.124 | 0.097 | 0.088 | 0.097 | 0.081 | 0.096 | 0.097 | 15.04 |
| 93) | T | 1,2,4-Trichlor... | 1.048 | 0.853 | 0.834 | 1.054 | 0.882 | 1.082 | 0.959 | 11.89 |
| 94) | T | Hexachlorobuta... | 0.612 | 0.475 | 0.479 | 0.574 | 0.452 | 0.566 | 0.526 | 12.49 |
| 95) | T | Naphthalene | 1.623 | 1.298 | 1.408 | 1.812 | 1.615 | 1.931 | 1.615 | 14.71 |
| 96) | T | 1,2,3-Trichlor... | 0.900 | 0.696 | 0.746 | 0.937 | 0.776 | 0.950 | 0.834 | 12.94 |

(#) = Out of Range




R = -5.542e-003 A*A + 2.059e-001 A - 1.088e-001
Coef of Det (r^2) = 0.993807  Curve Fit: Quadratic
Method Name:  Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Calibration Table Last Updated: Fri Nov 15 06:28:05 2024




R = 9.285e-002 A*A + 5.111e-001 A - 3.687e-002
Coef of Det (r^2) = 0.994372  Curve Fit: Quadratic
Method Name:  Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Calibration Table Last Updated: Fri Nov 15 06:28:05 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080011.D
Acq On : 14 Nov 2024 18:02
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:53:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 173599 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 277459 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 256196 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 132946 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 10396 | 5.842 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 11.680%# | | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 9875 | 5.324 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 10.640%# | | | |
| 50) Toluene-d8 | 10.269 | 98 | 36017 | 5.132 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 10.260%# | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 12519 | 5.318 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 10.640%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 8774 | 6.080 | ug/l | | 92 |
| 3) Chloromethane | 2.152 | 50 | 6089 | 5.744 | ug/l | | 96 |
| 4) Vinyl Chloride | 2.287 | 62 | 7090 | 5.706 | ug/l | | 96 |
| 5) Bromomethane | 2.699 | 94 | 10391 | 6.902 | ug/l | | 99 |
| 6) Chloroethane | 2.846 | 64 | 4426 | 5.250 | ug/l | | 94 |
| 7) Trichlorofluoromethane | 3.181 | 101 | 18141 | 6.098 | ug/l | | 99 |
| 8) Diethyl Ether | 3.593 | 74 | 4177 | 5.080 | ug/l | | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.975 | 101 | 11445 | 6.096 | ug/l | | 89 |
| 10) Methyl Iodide | 4.175 | 142 | 2987 | 5.192 | ug/l | # | 90 |
| 11) Tert butyl alcohol | 5.057 | 59 | 2628 | 28.683 | ug/l | # | 81 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 9813 | 5.447 | ug/l | # | 73 |
| 13) Acrolein | 3.799 | 56 | 3530 | 21.053 | ug/l | | 95 |
| 14) Allyl chloride | 4.563 | 41 | 11592 | 4.746 | ug/l | | 96 |
| 15) Acrylonitrile | 5.263 | 53 | 8095 | 23.020 | ug/l | # | 68 |
| 16) Acetone | 4.022 | 43 | 8957 | 39.789 | ug/l | # | 85 |
| 17) Carbon Disulfide | 4.275 | 76 | 32658 | 5.502 | ug/l | | 98 |
| 18) Methyl Acetate | 4.575 | 43 | 4449 | 5.361 | ug/l | # | 89 |
| 19) Methyl tert-butyl Ether | 5.316 | 73 | 17098 | 4.735 | ug/l | | 97 |
| 20) Methylene Chloride | 4.799 | 84 | 13379 | 6.036 | ug/l | # | 90 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 10629 | 5.266 | ug/l | | 90 |
| 22) Diisopropyl ether | 6.222 | 45 | 23150 | 4.506 | ug/l | # | 87 |
| 23) Vinyl Acetate | 6.157 | 43 | 61010 | 21.122 | ug/l | # | 91 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 17759 | 5.145 | ug/l | | 93 |
| 25) 2-Butanone | 7.081 | 43 | 13934 | 26.116 | ug/l | | 96 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 18632 | 6.036 | ug/l | | 93 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 12805 | 5.522 | ug/l | | 96 |
| 28) Bromochloromethane | 7.428 | 49 | 9244 | 5.971 | ug/l | | 92 |
| 29) Tetrahydrofuran | 7.457 | 42 | 7517 | 26.978 | ug/l | | 99 |
| 30) Chloroform | 7.599 | 83 | 23087 | 6.028 | ug/l | | 94 |
| 31) Cyclohexane | 7.881 | 56 | 17432 | 5.968 | ug/l | # | 86 |
| 32) 1,1,1-Trichloroethane | 7.798 | 97 | 18905 | 5.913 | ug/l | | 96 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 15161 | 5.601 | ug/l | | 97 |
| 37) Ethyl Acetate | 7.169 | 43 | 6680 | 5.942 | ug/l | # | 93 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 17634 | 5.932 | ug/l | | 99 |
| 39) Methylcyclohexane | 9.275 | 83 | 16640 | 5.271 | ug/l | # | 88 |
| 40) Benzene | 8.251 | 78 | 45671 | 5.462 | ug/l | | 94 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080011.D
Acq On : 14 Nov 2024 18:02
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:53:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.410 | 41 | 3557 | 5.699 ug/l # | 19 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 12744 | 5.817 ug/l | 98 |
| 43) Isopropyl Acetate | 8.363 | 43 | 11324 | 5.543 ug/l | 97 |
| 44) Trichloroethene | 9.028 | 130 | 12011 | 5.570 ug/l | 86 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 10747 | 5.401 ug/l | 99 |
| 46) Dibromomethane | 9.398 | 93 | 6519 | 5.574 ug/l | 95 |
| 47) Bromodichloromethane | 9.587 | 83 | 16422 | 5.602 ug/l | 95 |
| 48) Methyl methacrylate | 9.381 | 41 | 4776 | 5.231 ug/l | 97 |
| 49) 1,4-Dioxane | 9.387 | 88 | 1105 | 99.167 ug/l | 90 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 26078 | 25.332 ug/l | 100 |
| 52) Toluene | 10.334 | 92 | 26260 | 5.043 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 12830 | 5.048 ug/l | 90 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 15514 | 5.093 ug/l | 93 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 8925 | 5.715 ug/l | 97 |
| 56) Ethyl methacrylate | 10.598 | 69 | 8722 | 4.913 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 13955 | 5.528 ug/l | 95 |
| 58) 2-Chloroethyl Vinyl ether | 9.863 | 63 | 14158 | 22.331 ug/l | 100 |
| 59) 2-Hexanone | 10.922 | 43 | 19062 | 24.129 ug/l | 91 |
| 60) Dibromochloromethane | 11.075 | 129 | 11901 | 5.755 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 8281 | 5.649 ug/l | 93 |
| 64) Tetrachloroethene | 10.810 | 164 | 11194 | 5.789 ug/l | 91 |
| 65) Chlorobenzene | 11.610 | 112 | 33511 | 5.709 ug/l | 91 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 11700 | 5.607 ug/l | 98 |
| 67) Ethyl Benzene | 11.681 | 91 | 48499 | 4.992 ug/l | 90 |
| 68) m/p-Xylenes | 11.792 | 106 | 37997 | 9.918 ug/l | 99 |
| 69) o-Xylene | 12.122 | 106 | 16448 | 4.728 ug/l | 95 |
| 70) Styrene | 12.134 | 104 | 29383 | 4.751 ug/l | 97 |
| 71) Bromoform | 12.298 | 173 | 6557 | 5.565 ug/l # | 95 |
| 73) Isopropylbenzene | 12.422 | 105 | 43814 | 5.017 ug/l | 96 |
| 74) N-amyl acetate | 12.234 | 43 | 9843 | 5.280 ug/l | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83 | 10144 | 6.007 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.728 | 75 | 6466m | 5.704 ug/l | |
| 77) Bromobenzene | 12.704 | 156 | 12479 | 5.427 ug/l | 96 |
| 78) n-propylbenzene | 12.763 | 91 | 54776 | 5.068 ug/l | 98 |
| 79) 2-Chlorotoluene | 12.851 | 91 | 34007 | 5.294 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 35608 | 4.820 ug/l | 94 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 3181 | 5.427 ug/l | 97 |
| 82) 4-Chlorotoluene | 12.951 | 91 | 36227 | 5.311 ug/l | 98 |
| 83) tert-Butylbenzene | 13.163 | 119 | 32276 | 5.063 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 35538 | 4.732 ug/l | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 47185 | 4.942 ug/l | 96 |
| 86) p-Isopropyltoluene | 13.463 | 119 | 39845 | 4.919 ug/l | 97 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 27342 | 5.746 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.539 | 146 | 30031 | 6.269 ug/l | 94 |
| 89) n-Butylbenzene | 13.786 | 91 | 38898 | 5.165 ug/l | 97 |
| 90) Hexachloroethane | 14.051 | 117 | 10531 | 5.962 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 24275 | 5.836 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 1643 | 6.373 ug/l | 85 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 13931 | 5.463 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 8135 | 5.814 ug/l | 97 |
| 95) Naphthalene | 15.333 | 128 | 21571 | 5.025 ug/l | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 11960 | 5.393 ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080011.D
Acq On : 14 Nov 2024 18:02
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:53:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

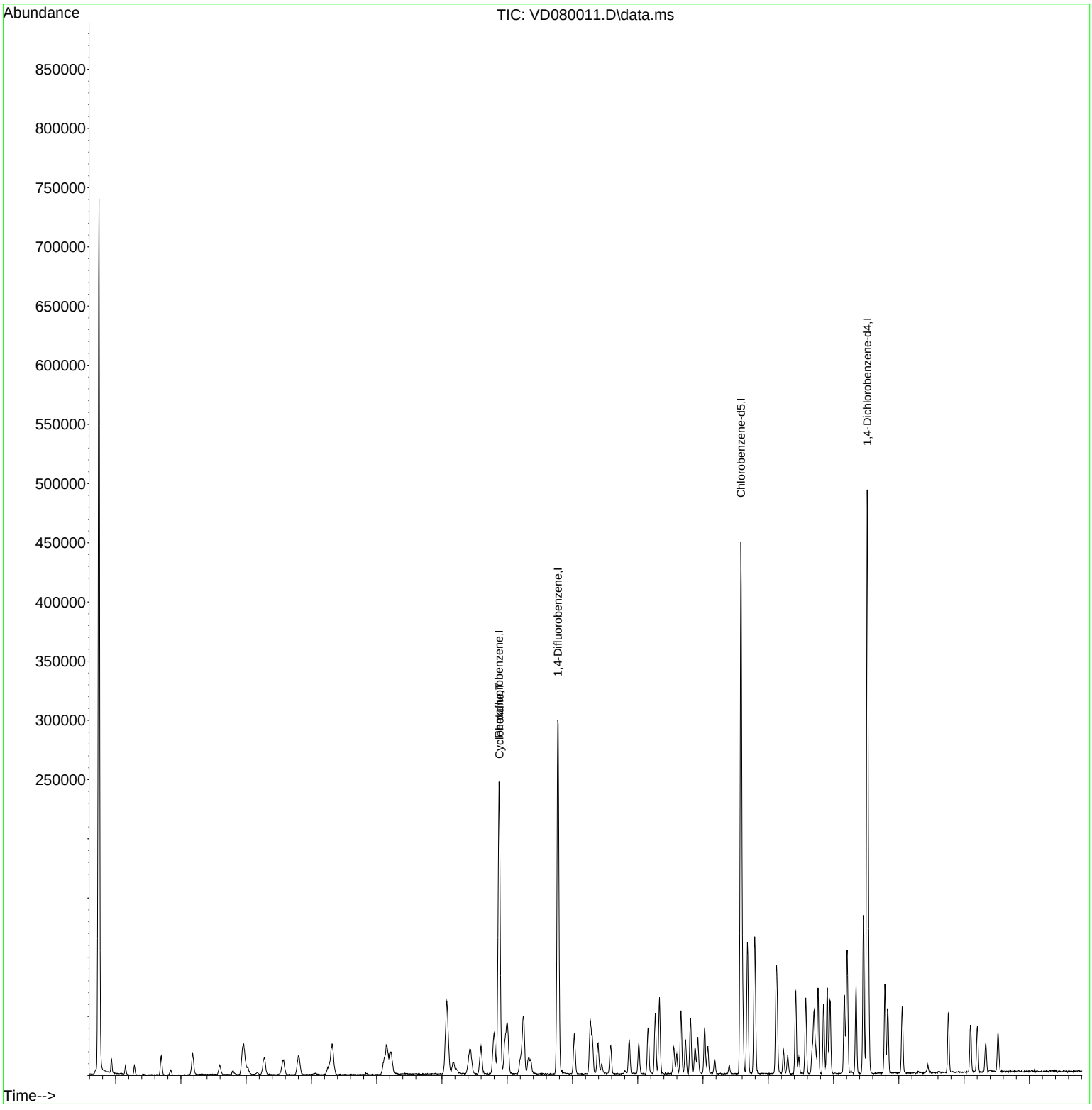
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080011.D
Acq On : 14 Nov 2024 18:02
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 05:53:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080012.D
Acq On : 14 Nov 2024 18:29
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:54:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 188864 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 301399 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 276644 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 152917 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 18620 | 9.618 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 19.240%# | | |
| 35) Dibromofluoromethane | 7.805 | 113 | 18920 | 9.390 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 18.780%# | | |
| 50) Toluene-d8 | 10.269 | 98 | 68700 | 9.012 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 18.020%# | | |
| 62) 4-Bromofluorobenzene | 12.569 | 95 | 22972 | 8.984 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 17.960%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 14855 | 9.461 | ug/l | 92 |
| 3) Chloromethane | 2.152 | 50 | 12638 | 10.958 | ug/l | 90 |
| 4) Vinyl Chloride | 2.287 | 62 | 15614 | 11.550 | ug/l | 92 |
| 5) Bromomethane | 2.693 | 94 | 20874 | 12.745 | ug/l | 100 |
| 6) Chloroethane | 2.834 | 64 | 11346 | 12.370 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 33472 | 10.342 | ug/l # | 83 |
| 8) Diethyl Ether | 3.593 | 74 | 8481 | 9.482 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 20804 | 10.185 | ug/l | 98 |
| 10) Methyl Iodide | 4.169 | 142 | 8521 | 7.800 | ug/l | 96 |
| 11) Tert butyl alcohol | 5.063 | 59 | 5303 | 53.202 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 3.946 | 96 | 18753 | 9.568 | ug/l | 85 |
| 13) Acrolein | 3.793 | 56 | 8307 | 45.539 | ug/l | 98 |
| 14) Allyl chloride | 4.558 | 41 | 24380 | 9.174 | ug/l | 98 |
| 15) Acrylonitrile | 5.252 | 53 | 17652 | 46.140 | ug/l | 94 |
| 16) Acetone | 4.028 | 43 | 20494 | 54.347 | ug/l | 98 |
| 17) Carbon Disulfide | 4.275 | 76 | 66891 | 10.358 | ug/l | 97 |
| 18) Methyl Acetate | 4.569 | 43 | 8501 | 9.415 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.316 | 73 | 33581 | 8.547 | ug/l | 94 |
| 20) Methylene Chloride | 4.799 | 84 | 24973 | 10.355 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 20643 | 9.400 | ug/l | 94 |
| 22) Diisopropyl ether | 6.216 | 45 | 49275 | 8.816 | ug/l # | 98 |
| 23) Vinyl Acetate | 6.158 | 43 | 136208 | 43.344 | ug/l | 94 |
| 24) 1,1-Dichloroethane | 6.110 | 63 | 36813 | 9.804 | ug/l | 97 |
| 25) 2-Butanone | 7.087 | 43 | 24162 | 41.625 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 32630 | 9.716 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 22375 | 8.870 | ug/l | 94 |
| 28) Bromochloromethane | 7.428 | 49 | 16935 | 10.055 | ug/l | 94 |
| 29) Tetrahydrofuran | 7.452 | 42 | 12870 | 42.457 | ug/l | 97 |
| 30) Chloroform | 7.605 | 83 | 41191 | 9.885 | ug/l | 89 |
| 31) Cyclohexane | 7.881 | 56 | 30155 | 9.490 | ug/l # | 89 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 33186 | 9.541 | ug/l | 95 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 27533 | 9.364 | ug/l | 98 |
| 37) Ethyl Acetate | 7.169 | 43 | 11588 | 9.489 | ug/l # | 67 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 32176 | 9.965 | ug/l | 95 |
| 39) Methylcyclohexane | 9.269 | 83 | 30045 | 8.761 | ug/l | 92 |
| 40) Benzene | 8.252 | 78 | 83153 | 9.154 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080012.D
Acq On : 14 Nov 2024 18:29
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:54:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.405 | 41 | 5071 | 7.479 ug/l # | 93 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 22285 | 9.365 ug/l | 99 |
| 43) Isopropyl Acetate | 8.363 | 43 | 20332 | 9.162 ug/l | 98 |
| 44) Trichloroethene | 9.028 | 130 | 21961 | 9.375 ug/l | 84 |
| 45) 1,2-Dichloropropane | 9.310 | 63 | 19790 | 9.155 ug/l | 91 |
| 46) Dibromomethane | 9.393 | 93 | 11930 | 9.390 ug/l | 97 |
| 47) Bromodichloromethane | 9.587 | 83 | 29718 | 9.332 ug/l | 95 |
| 48) Methyl methacrylate | 9.381 | 41 | 7220 | 7.280 ug/l # | 83 |
| 49) 1,4-Dioxane | 9.387 | 88 | 1995 | 164.817 ug/l # | 86 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 47814 | 42.756 ug/l | 98 |
| 52) Toluene | 10.334 | 92 | 50256 | 8.885 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 25038 | 9.068 ug/l | 91 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 29430 | 8.894 ug/l | 96 |
| 55) 1,1,2-Trichloroethane | 10.728 | 97 | 17004 | 10.024 ug/l | 96 |
| 56) Ethyl methacrylate | 10.593 | 69 | 15381 | 7.975 ug/l | 97 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 25036 | 9.130 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 29386 | 42.668 ug/l | 99 |
| 59) 2-Hexanone | 10.922 | 43 | 33905 | 39.508 ug/l | 93 |
| 60) Dibromochloromethane | 11.075 | 129 | 20772 | 9.246 ug/l | 96 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 14496 | 9.104 ug/l | 96 |
| 64) Tetrachloroethene | 10.810 | 164 | 19899 | 9.530 ug/l | 95 |
| 65) Chlorobenzene | 11.604 | 112 | 58988 | 9.307 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.675 | 131 | 21586 | 9.580 ug/l | 96 |
| 67) Ethyl Benzene | 11.681 | 91 | 89875 | 8.567 ug/l | 96 |
| 68) m/p-Xylenes | 11.793 | 106 | 71270 | 17.228 ug/l | 99 |
| 69) o-Xylene | 12.122 | 106 | 32570 | 8.670 ug/l | 99 |
| 70) Styrene | 12.134 | 104 | 57105 | 8.550 ug/l | 98 |
| 71) Bromoform | 12.293 | 173 | 12167 | 9.563 ug/l # | 98 |
| 73) Isopropylbenzene | 12.422 | 105 | 84410 | 8.403 ug/l | 100 |
| 74) N-amyl acetate | 12.228 | 43 | 17671 | 8.242 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83 | 18080 | 9.309 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 11661m | 8.943 ug/l | |
| 77) Bromobenzene | 12.698 | 156 | 22830 | 8.631 ug/l | 96 |
| 78) n-propylbenzene | 12.763 | 91 | 104775 | 8.429 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 64878 | 8.781 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 71192 | 8.379 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.463 | 75 | 5933 | 8.800 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 69585 | 8.869 ug/l | 98 |
| 83) tert-Butylbenzene | 13.163 | 119 | 60076 | 8.194 ug/l | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 71231 | 8.246 ug/l | 98 |
| 85) sec-Butylbenzene | 13.345 | 105 | 94287 | 8.585 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.463 | 119 | 77523 | 8.320 ug/l | 98 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 49592 | 9.061 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 50618 | 9.186 ug/l | 99 |
| 89) n-Butylbenzene | 13.787 | 91 | 72813 | 8.406 ug/l | 97 |
| 90) Hexachloroethane | 14.051 | 117 | 18383 | 9.048 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 42705 | 8.926 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 2968 | 10.009 ug/l | 85 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 26082 | 8.893 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 14524 | 9.024 ug/l | 95 |
| 95) Naphthalene | 15.334 | 128 | 39697 | 8.039 ug/l | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 21297 | 8.349 ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080012.D
Acq On : 14 Nov 2024 18:29
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:54:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

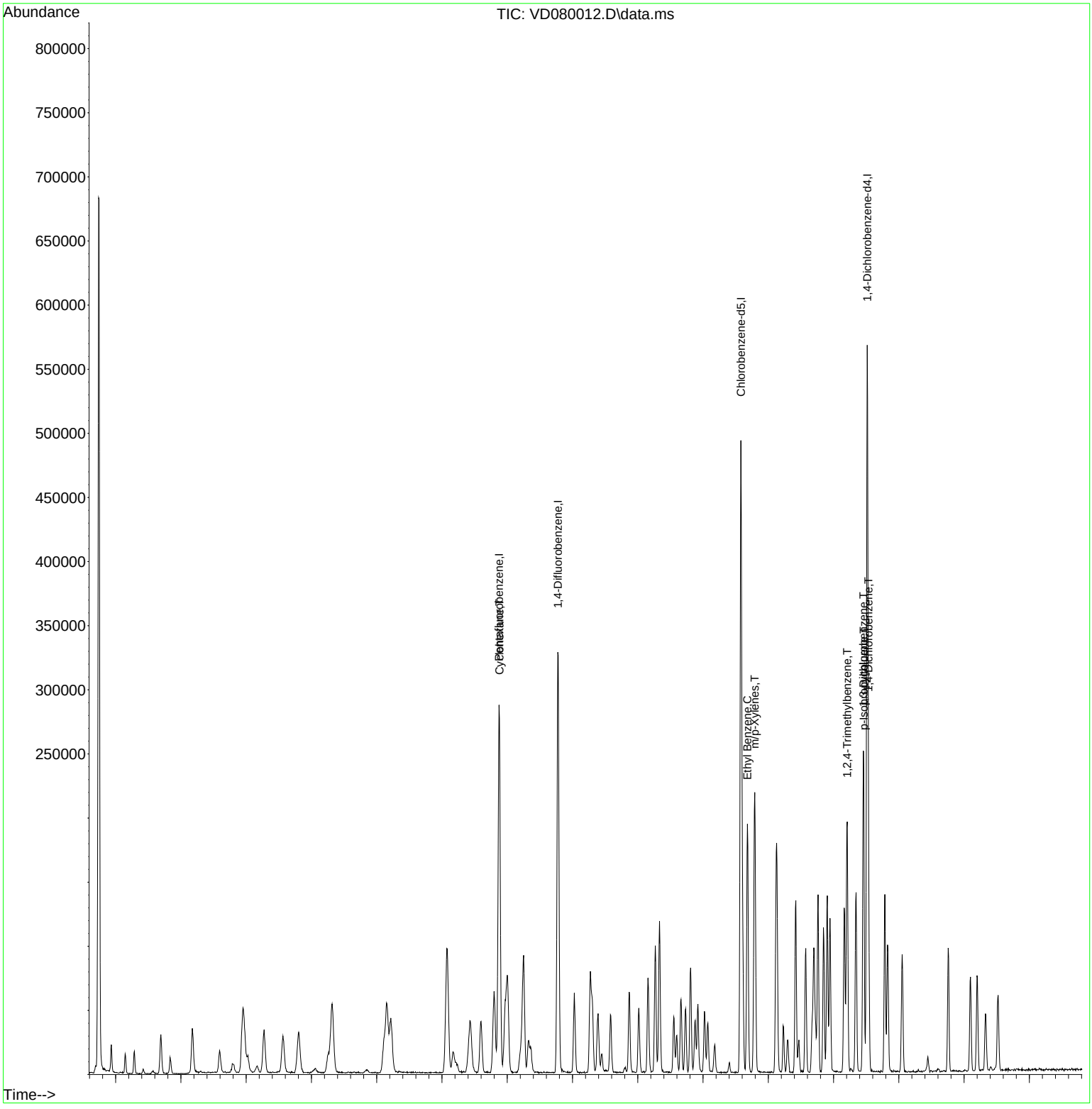
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080012.D
Acq On : 14 Nov 2024 18:29
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 05:54:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080013.D
Acq On : 14 Nov 2024 18:56
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:55:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 197988 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 310792 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 289410 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 158312 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 42292 | 20.838 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 41.680%# | | |
| 35) Dibromofluoromethane | 7.805 | 113 | 42661 | 20.532 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 41.060%# | | |
| 50) Toluene-d8 | 10.269 | 98 | 158316 | 20.140 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 40.280%# | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 52082 | 19.753 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 39.500% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 30037 | 18.249 | ug/l | 97 |
| 3) Chloromethane | 2.146 | 50 | 21292 | 17.611 | ug/l | 100 |
| 4) Vinyl Chloride | 2.287 | 62 | 24432 | 17.240 | ug/l | 97 |
| 5) Bromomethane | 2.681 | 94 | 31236 | 18.193 | ug/l | 98 |
| 6) Chloroethane | 2.834 | 64 | 16810 | 17.483 | ug/l | 91 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 61842 | 18.228 | ug/l | 96 |
| 8) Diethyl Ether | 3.599 | 74 | 16718 | 17.829 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.964 | 101 | 39444 | 18.420 | ug/l | 96 |
| 10) Methyl Iodide | 4.164 | 142 | 30454 | 17.537 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.052 | 59 | 9736 | 93.174 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 3.946 | 96 | 37897 | 18.444 | ug/l # | 78 |
| 13) Acrolein | 3.793 | 56 | 17095 | 89.396 | ug/l | 97 |
| 14) Allyl chloride | 4.564 | 41 | 45743 | 16.420 | ug/l | 94 |
| 15) Acrylonitrile | 5.258 | 53 | 36871 | 91.935 | ug/l | 97 |
| 16) Acetone | 4.022 | 43 | 34437 | 71.386 | ug/l | 89 |
| 17) Carbon Disulfide | 4.269 | 76 | 120227 | 17.759 | ug/l | 99 |
| 18) Methyl Acetate | 4.575 | 43 | 15721 | 16.610 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 5.328 | 73 | 75246 | 18.270 | ug/l | 94 |
| 20) Methylene Chloride | 4.805 | 84 | 45590 | 18.033 | ug/l | 89 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 42325 | 18.385 | ug/l | 98 |
| 22) Diisopropyl ether | 6.210 | 45 | 116833 | 19.939 | ug/l | 95 |
| 23) Vinyl Acetate | 6.158 | 43 | 321142 | 97.485 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.110 | 63 | 77768 | 19.756 | ug/l | 97 |
| 25) 2-Butanone | 7.087 | 43 | 53471 | 87.872 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 65340 | 18.559 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 48278 | 18.256 | ug/l | 98 |
| 28) Bromochloromethane | 7.428 | 49 | 34258 | 19.404 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.452 | 42 | 30397 | 95.655 | ug/l | 98 |
| 30) Chloroform | 7.599 | 83 | 81408 | 18.637 | ug/l | 99 |
| 31) Cyclohexane | 7.881 | 56 | 60562 | 18.180 | ug/l # | 91 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 68689 | 18.839 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 55306 | 18.240 | ug/l | 98 |
| 37) Ethyl Acetate | 7.169 | 43 | 23323 | 18.522 | ug/l # | 79 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 62170 | 18.672 | ug/l | 95 |
| 39) Methylcyclohexane | 9.275 | 83 | 63363 | 17.918 | ug/l | 99 |
| 40) Benzene | 8.252 | 78 | 174136 | 18.591 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080013.D
Acq On : 14 Nov 2024 18:56
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:55:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.405 | 41 | 13402 | 19.170 | ug/l | | 90 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 47231 | 19.248 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.363 | 43 | 42249 | 18.464 | ug/l | | 98 |
| 44) Trichloroethene | 9.028 | 130 | 46010 | 19.047 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 42265 | 18.961 | ug/l | | 95 |
| 46) Dibromomethane | 9.393 | 93 | 25016 | 19.096 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.587 | 83 | 61993 | 18.878 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.381 | 41 | 18730 | 18.314 | ug/l | | 92 |
| 49) 1,4-Dioxane | 9.387 | 88 | 5199 | 416.536 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 112478 | 97.541 | ug/l | | 99 |
| 52) Toluene | 10.334 | 92 | 108403 | 18.585 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 52881 | 18.573 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 64194 | 18.814 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 33594 | 19.206 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.598 | 69 | 36283 | 18.245 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.875 | 76 | 53909 | 19.064 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 64674 | 91.067 | ug/l | | 98 |
| 59) 2-Hexanone | 10.922 | 43 | 80833 | 91.344 | ug/l | | 97 |
| 60) Dibromochloromethane | 11.075 | 129 | 44014 | 19.000 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 31735 | 19.328 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.810 | 164 | 39538 | 18.100 | ug/l | | 93 |
| 65) Chlorobenzene | 11.604 | 112 | 121125 | 18.268 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 43115 | 18.290 | ug/l | | 96 |
| 67) Ethyl Benzene | 11.681 | 91 | 200511 | 18.270 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.793 | 106 | 161089 | 37.223 | ug/l | | 99 |
| 69) o-Xylene | 12.122 | 106 | 71286 | 18.138 | ug/l | | 99 |
| 70) Styrene | 12.134 | 104 | 130692 | 18.705 | ug/l | | 99 |
| 71) Bromoform | 12.298 | 173 | 25340 | 19.038 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.422 | 105 | 186183 | 17.902 | ug/l | | 100 |
| 74) N-amyl acetate | 12.234 | 43 | 41691 | 18.782 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83 | 37992 | 18.894 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 29790m | 22.069 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 49984 | 18.253 | ug/l | | 95 |
| 78) n-propylbenzene | 12.763 | 91 | 235470 | 18.297 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 138993 | 18.171 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 161145 | 18.319 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 13378 | 19.167 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 150243 | 18.497 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.163 | 119 | 135502 | 17.852 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 165467 | 18.503 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 208556 | 18.343 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.463 | 119 | 174095 | 18.048 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 103564 | 18.277 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.540 | 146 | 102782 | 18.017 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.787 | 91 | 157177 | 17.528 | ug/l | | 98 |
| 90) Hexachloroethane | 14.051 | 117 | 37826 | 17.983 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.834 | 146 | 91029 | 18.377 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 5547 | 18.068 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 52828 | 17.399 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 30325 | 18.199 | ug/l | | 97 |
| 95) Naphthalene | 15.328 | 128 | 89192 | 17.447 | ug/l | | 96 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 47228 | 17.884 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080013.D
Acq On : 14 Nov 2024 18:56
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:55:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

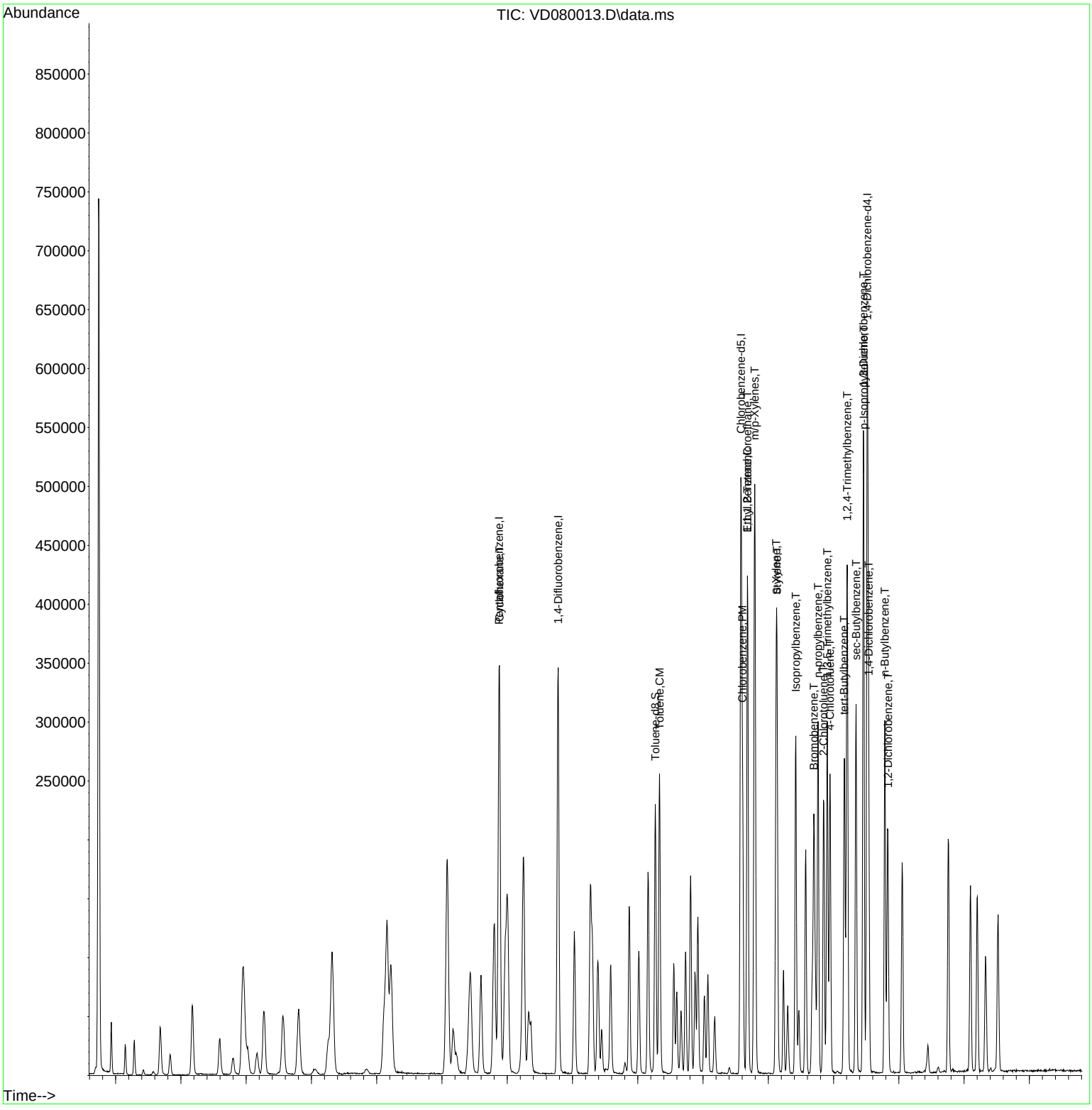
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080013.D
Acq On : 14 Nov 2024 18:56
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 05:55:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080014.D
Acq On : 14 Nov 2024 19:22
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 203594 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 307136 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 286067 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 153548 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 98786 | 47.333 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 94.660% | | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 103336 | 50.327 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.660% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 395754 | 50.944 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.880% | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 133282 | 51.151 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 102.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 95399 | 56.365 | ug/l | 100 |
| 3) Chloromethane | 2.146 | 50 | 68640 | 55.209 | ug/l | 100 |
| 4) Vinyl Chloride | 2.287 | 62 | 82062 | 56.311 | ug/l | 100 |
| 5) Bromomethane | 2.693 | 94 | 86551 | 49.023 | ug/l | 100 |
| 6) Chloroethane | 2.840 | 64 | 57797 | 58.456 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 191890 | 55.002 | ug/l | 100 |
| 8) Diethyl Ether | 3.599 | 74 | 53508 | 55.492 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.975 | 101 | 116702 | 52.999 | ug/l | 100 |
| 10) Methyl Iodide | 4.169 | 142 | 138709 | 58.026 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.052 | 59 | 27629 | 257.130 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.946 | 96 | 116273 | 55.029 | ug/l | 100 |
| 13) Acrolein | 3.799 | 56 | 59183 | 300.967 | ug/l | 100 |
| 14) Allyl chloride | 4.563 | 41 | 166537 | 58.135 | ug/l | 100 |
| 15) Acrylonitrile | 5.252 | 53 | 115925 | 281.091 | ug/l | 100 |
| 16) Acetone | 4.028 | 43 | 162927 | 256.001 | ug/l | 100 |
| 17) Carbon Disulfide | 4.269 | 76 | 389298 | 55.921 | ug/l | 100 |
| 18) Methyl Acetate | 4.569 | 43 | 54410 | 55.902 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 240796 | 56.856 | ug/l | 100 |
| 20) Methylene Chloride | 4.805 | 84 | 136297 | 52.428 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 132838 | 56.114 | ug/l | 100 |
| 22) Diisopropyl ether | 6.216 | 45 | 348707 | 57.873 | ug/l | 100 |
| 23) Vinyl Acetate | 6.157 | 43 | 986672 | 291.263 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 219907 | 54.326 | ug/l | 100 |
| 25) 2-Butanone | 7.081 | 43 | 182222 | 291.212 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 191212 | 52.815 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 149937 | 55.137 | ug/l | 100 |
| 28) Bromochloromethane | 7.428 | 49 | 90226 | 49.697 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.446 | 42 | 89754 | 274.667 | ug/l | 100 |
| 30) Chloroform | 7.599 | 83 | 236677 | 52.690 | ug/l | 100 |
| 31) Cyclohexane | 7.881 | 56 | 183450 | 53.554 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 202158 | 53.917 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 168598 | 56.267 | ug/l | 100 |
| 37) Ethyl Acetate | 7.175 | 43 | 65831 | 52.901 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.999 | 117 | 175596 | 53.365 | ug/l | 100 |
| 39) Methylcyclohexane | 9.275 | 83 | 198178 | 56.708 | ug/l | 100 |
| 40) Benzene | 8.251 | 78 | 520262 | 56.205 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080014.D
Acq On : 14 Nov 2024 19:22
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.399 | 41 | 34218 | 49.527 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 132004 | 54.436 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.363 | 43 | 123358 | 54.552 | ug/l | | 100 |
| 44) Trichloroethene | 9.028 | 130 | 130474 | 54.656 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 123960 | 56.274 | ug/l | | 100 |
| 46) Dibromomethane | 9.393 | 93 | 70822 | 54.705 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.587 | 83 | 181086 | 55.800 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.381 | 41 | 58637 | 58.018 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.387 | 88 | 13757 | 1115.309 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 324338 | 284.613 | ug/l | | 100 |
| 52) Toluene | 10.334 | 92 | 333240 | 57.813 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 158093 | 56.187 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 191431 | 56.774 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 91309 | 52.822 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.598 | 69 | 114491 | 58.256 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 153189 | 54.818 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 184640 | 263.086 | ug/l | | 100 |
| 59) 2-Hexanone | 10.922 | 43 | 265697 | 303.822 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.075 | 129 | 123658 | 54.015 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 87716 | 54.058 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.810 | 164 | 117139 | 54.251 | ug/l | | 100 |
| 65) Chlorobenzene | 11.604 | 112 | 355230 | 54.200 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 128096 | 54.976 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.681 | 91 | 626197 | 57.724 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.792 | 106 | 498847 | 116.616 | ug/l | | 100 |
| 69) o-Xylene | 12.122 | 106 | 225557 | 58.063 | ug/l | | 100 |
| 70) Styrene | 12.134 | 104 | 400659 | 58.013 | ug/l | | 100 |
| 71) Bromoform | 12.298 | 173 | 71816 | 54.587 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.422 | 105 | 582614 | 57.759 | ug/l | | 100 |
| 74) N-amyl acetate | 12.234 | 43 | 119763 | 55.626 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 103619 | 53.130 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 67844m | 51.819 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 150049 | 56.495 | ug/l | | 100 |
| 78) n-propylbenzene | 12.763 | 91 | 725594 | 58.130 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 417350 | 56.254 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 498642 | 58.445 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 37130 | 54.847 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 445736 | 56.578 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.163 | 119 | 430772 | 58.512 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 507108 | 58.466 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.345 | 105 | 641879 | 58.207 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 545762 | 58.333 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 299441 | 54.486 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 293078 | 52.968 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.786 | 91 | 504535 | 58.009 | ug/l | | 100 |
| 90) Hexachloroethane | 14.051 | 117 | 111967 | 54.883 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 268206 | 55.826 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 14909 | 50.070 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 161904 | 54.977 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 88187 | 54.566 | ug/l | | 100 |
| 95) Naphthalene | 15.328 | 128 | 278279 | 56.123 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 143832 | 56.154 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080014.D
Acq On : 14 Nov 2024 19:22
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

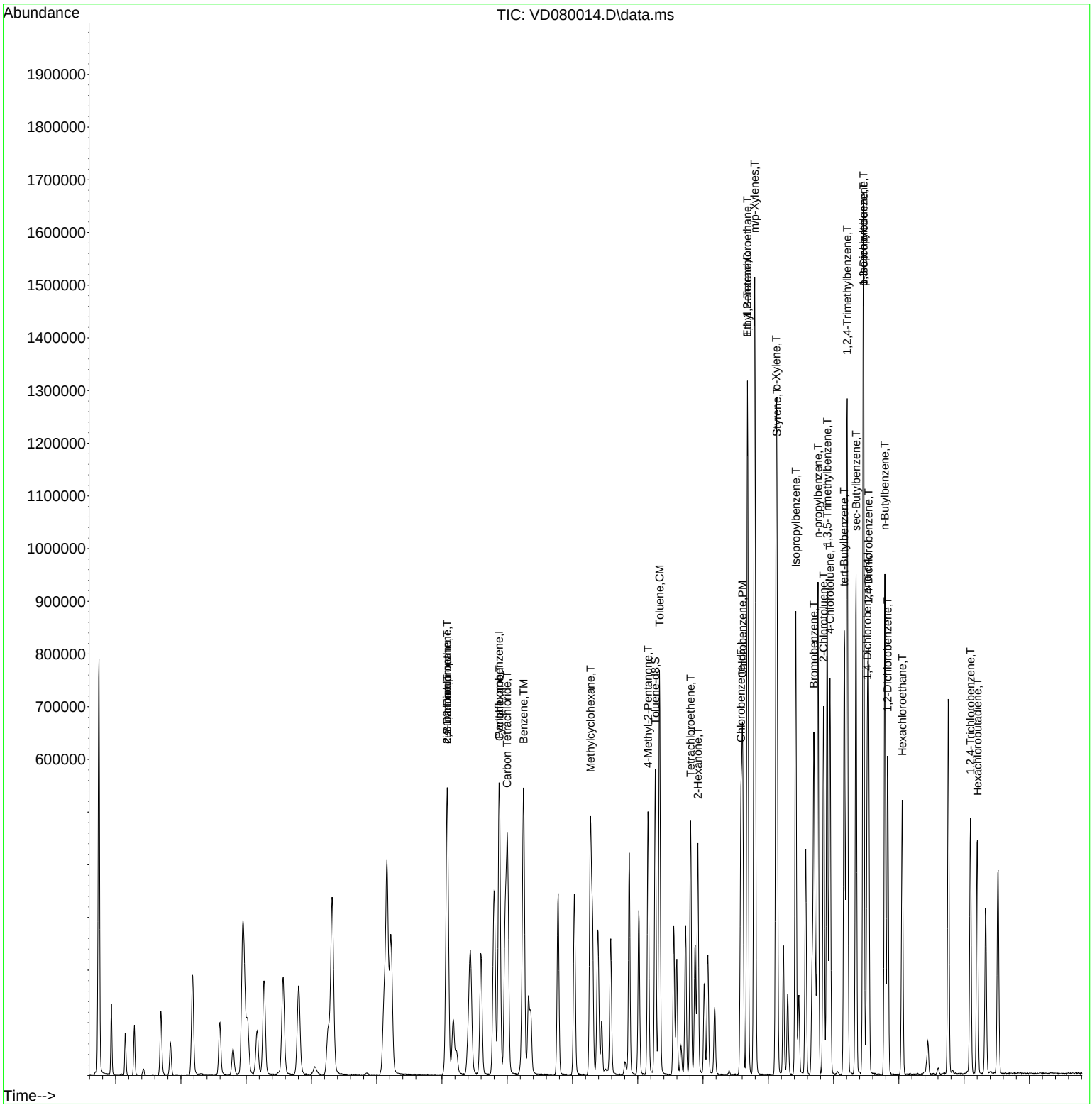
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080014.D
Acq On : 14 Nov 2024 19:22
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 05:56:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080015.D
Acq On : 14 Nov 2024 19:49
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Pentafluorobenzene | 7.881 | 168 | 227638 | 50.000 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 354140 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 325872 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 176457 | 50.000 ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 207566 | 88.950 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 177.900%# | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 215046 | 90.832 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 181.660%# | | |
| 50) Toluene-d8 | 10.269 | 98 | 845419 | 94.384 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 188.760%# | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 282236 | 93.939 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 187.880%# | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 157159 | 83.047 ug/l | 97 |
| 3) Chloromethane | 2.152 | 50 | 122026 | 87.782 ug/l | 93 |
| 4) Vinyl Chloride | 2.287 | 62 | 136246 | 83.617 ug/l | 96 |
| 5) Bromomethane | 2.687 | 94 | 137625 | 69.718 ug/l | 100 |
| 6) Chloroethane | 2.840 | 64 | 90515 | 81.878 ug/l | 95 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 321011 | 82.293 ug/l | 90 |
| 8) Diethyl Ether | 3.593 | 74 | 107991 | 100.167 ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 207655 | 84.343 ug/l | 99 |
| 10) Methyl Iodide | 4.163 | 142 | 287677 | 94.674 ug/l | 99 |
| 11) Tert butyl alcohol | 5.058 | 59 | 53743 | 447.331 ug/l # | 85 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 216968 | 91.839 ug/l | 95 |
| 13) Acrolein | 3.799 | 56 | 125521 | 570.898 ug/l | 99 |
| 14) Allyl chloride | 4.563 | 41 | 318947 | 99.578 ug/l | 98 |
| 15) Acrylonitrile | 5.258 | 53 | 235465 | 510.642 ug/l | 99 |
| 16) Acetone | 4.022 | 43 | 323382 | 513.022 ug/l | 99 |
| 17) Carbon Disulfide | 4.275 | 76 | 700569 | 90.005 ug/l | 100 |
| 18) Methyl Acetate | 4.563 | 43 | 106769 | 98.111 ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 480732 | 101.520 ug/l | 99 |
| 20) Methylene Chloride | 4.805 | 84 | 250052 | 86.025 ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 242989 | 91.803 ug/l | 97 |
| 22) Diisopropyl ether | 6.222 | 45 | 655948 | 97.366 ug/l | 97 |
| 23) Vinyl Acetate | 6.157 | 43 | 1948609 | 514.468 ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.110 | 63 | 407199 | 89.970 ug/l | 97 |
| 25) 2-Butanone | 7.081 | 43 | 360034 | 514.602 ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 347740 | 85.905 ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 283175 | 93.134 ug/l | 99 |
| 28) Bromochloromethane | 7.428 | 49 | 192869 | 95.013 ug/l | 99 |
| 29) Tetrahydrofuran | 7.446 | 42 | 180129 | 493.011 ug/l | 98 |
| 30) Chloroform | 7.599 | 83 | 431094 | 85.836 ug/l | 98 |
| 31) Cyclohexane | 7.881 | 56 | 333447 | 87.060 ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 360229 | 85.928 ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 303389 | 87.813 ug/l | 99 |
| 37) Ethyl Acetate | 7.169 | 43 | 130465 | 90.924 ug/l | 97 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 314177 | 82.808 ug/l | 91 |
| 39) Methylcyclohexane | 9.275 | 83 | 367349 | 91.163 ug/l | 97 |
| 40) Benzene | 8.251 | 78 | 949953 | 89.004 ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080015.D
Acq On : 14 Nov 2024 19:49
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.404 | 41 | 76720 | 96.305 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 242536 | 86.742 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.363 | 43 | 242475 | 92.996 | ug/l | | 99 |
| 44) Trichloroethene | 9.028 | 130 | 241045 | 87.573 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 228088 | 89.802 | ug/l | | 96 |
| 46) Dibromomethane | 9.393 | 93 | 134444 | 90.065 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.587 | 83 | 325889 | 87.091 | ug/l | | 95 |
| 48) Methyl methacrylate | 9.381 | 41 | 117113 | 100.497 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.387 | 88 | 27994 | 1968.303 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 637277 | 485.000 | ug/l | | 99 |
| 52) Toluene | 10.334 | 92 | 616844 | 92.811 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 303989 | 93.699 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 363193 | 93.418 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 170740 | 85.664 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.598 | 69 | 228662 | 100.907 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 289077 | 89.715 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 452869 | 559.630 | ug/l | | 100 |
| 59) 2-Hexanone | 10.922 | 43 | 528686 | 524.307 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.075 | 129 | 235025 | 89.036 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 168291 | 89.950 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.810 | 164 | 220152 | 89.506 | ug/l | | 97 |
| 65) Chlorobenzene | 11.604 | 112 | 670292 | 89.780 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 233621 | 88.018 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.681 | 91 | 1177961 | 95.323 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.792 | 106 | 926258 | 190.083 | ug/l | | 99 |
| 69) o-Xylene | 12.122 | 106 | 429993 | 97.168 | ug/l | | 100 |
| 70) Styrene | 12.134 | 104 | 763058 | 96.990 | ug/l | | 99 |
| 71) Bromoform | 12.298 | 173 | 133968 | 89.391 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.422 | 105 | 1081697 | 93.315 | ug/l | | 99 |
| 74) N-amyl acetate | 12.234 | 43 | 237673 | 96.060 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 194365 | 86.720 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 129018m | 85.749 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 277137 | 90.798 | ug/l | | 96 |
| 78) n-propylbenzene | 12.763 | 91 | 1332748 | 92.910 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 774118 | 90.796 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 923689 | 94.208 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 71380 | 91.750 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 812011 | 89.689 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.163 | 119 | 801892 | 94.781 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 950637 | 95.373 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 1165410 | 91.962 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 1013231 | 94.237 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 551352 | 87.299 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 537021 | 84.455 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.786 | 91 | 931105 | 93.155 | ug/l | | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 201104 | 85.778 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 478970 | 86.753 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 28468 | 83.194 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 311311 | 91.985 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.198 | 225 | 159481 | 85.867 | ug/l | | 99 |
| 95) Naphthalene | 15.328 | 128 | 569973 | 100.027 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 273965 | 93.074 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080015.D
Acq On : 14 Nov 2024 19:49
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

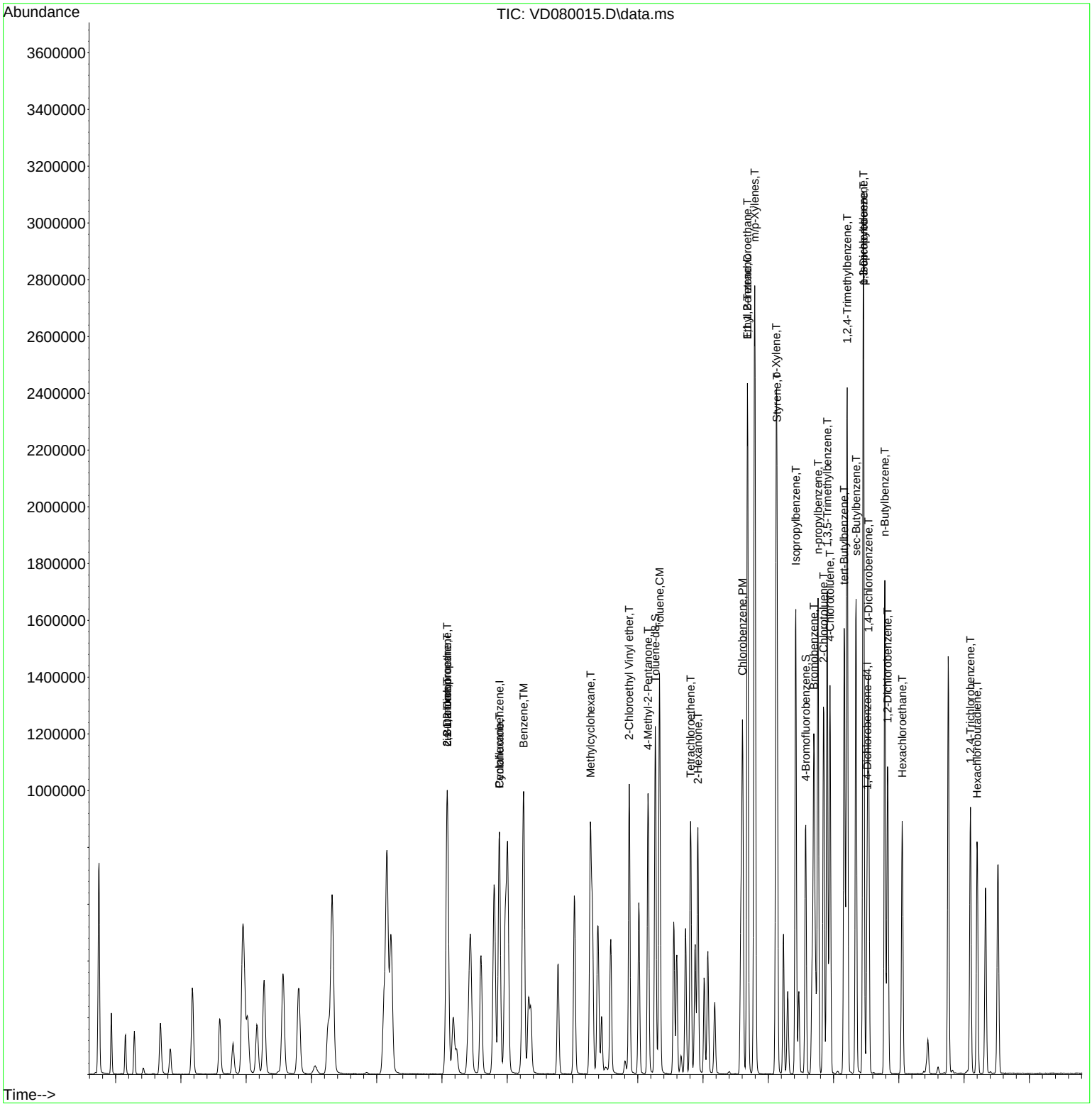
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080015.D
Acq On : 14 Nov 2024 19:49
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 15 05:56:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080016.D
Acq On : 14 Nov 2024 20:16
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:57:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 226312 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 341604 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 319279 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 162875 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 345148 | 148.775 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 297.560%# | | | |
| 35) Dibromofluoromethane | 7.805 | 113 | 361322 | 158.217 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 316.440%# | | | |
| 50) Toluene-d8 | 10.269 | 98 | 1429048 | 165.396 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 330.800%# | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 472915 | 163.181 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 326.360%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 273099 | 145.158 | ug/l | 99 |
| 3) Chloromethane | 2.146 | 50 | 185111 | 133.943 | ug/l | 98 |
| 4) Vinyl Chloride | 2.287 | 62 | 213698 | 131.919 | ug/l | 98 |
| 5) Bromomethane | 2.675 | 94 | 223047 | 113.653 | ug/l | 99 |
| 6) Chloroethane | 2.834 | 64 | 140279 | 127.637 | ug/l | 94 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 530381 | 136.763 | ug/l | 91 |
| 8) Diethyl Ether | 3.593 | 74 | 166050 | 154.921 | ug/l | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 344387 | 140.699 | ug/l | 93 |
| 10) Methyl Iodide | 4.164 | 142 | 534381 | 151.365 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.063 | 59 | 83643 | 700.284 | ug/l # | 86 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 356804 | 151.915 | ug/l | 88 |
| 13) Acrolein | 3.799 | 56 | 165166 | 755.613 | ug/l | 99 |
| 14) Allyl chloride | 4.564 | 41 | 551174 | 173.090 | ug/l | 100 |
| 15) Acrylonitrile | 5.258 | 53 | 375246 | 818.547 | ug/l | 100 |
| 16) Acetone | 4.022 | 43 | 389707 | 736.544 | ug/l | 95 |
| 17) Carbon Disulfide | 4.275 | 76 | 1111288 | 143.609 | ug/l | 100 |
| 18) Methyl Acetate | 4.564 | 43 | 171485 | 158.502 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.316 | 73 | 799746 | 169.877 | ug/l | 98 |
| 20) Methylene Chloride | 4.805 | 84 | 410444 | 142.033 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 413373 | 157.090 | ug/l | 98 |
| 22) Diisopropyl ether | 6.216 | 45 | 1094236 | 163.375 | ug/l | 99 |
| 23) Vinyl Acetate | 6.158 | 43 | 3161389 | 839.554 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 686131 | 152.487 | ug/l | 97 |
| 25) 2-Butanone | 7.081 | 43 | 547803 | 787.571 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 590404 | 146.706 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 481387 | 159.251 | ug/l | 99 |
| 28) Bromochloromethane | 7.428 | 49 | 268169 | 132.883 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.446 | 42 | 280733 | 772.865 | ug/l | 98 |
| 30) Chloroform | 7.599 | 83 | 720418 | 144.284 | ug/l | 98 |
| 31) Cyclohexane | 7.881 | 56 | 575006 | 151.009 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 614937 | 147.545 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 513871 | 154.193 | ug/l | 100 |
| 37) Ethyl Acetate | 7.175 | 43 | 201245 | 145.400 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 542420 | 148.213 | ug/l | 94 |
| 39) Methylcyclohexane | 9.275 | 83 | 657730 | 169.216 | ug/l | 99 |
| 40) Benzene | 8.252 | 78 | 1619312 | 157.286 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080016.D
Acq On : 14 Nov 2024 20:16
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:57:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.399 | 41 | 112669 | 146.621 ug/l | 98 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 397083 | 147.226 ug/l | 99 |
| 43) Isopropyl Acetate | 8.363 | 43 | 388928 | 154.638 ug/l | 99 |
| 44) Trichloroethene | 9.028 | 130 | 409177 | 154.111 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 379540 | 154.915 ug/l | 98 |
| 46) Dibromomethane | 9.393 | 93 | 215256 | 149.493 ug/l | 99 |
| 47) Bromodichloromethane | 9.587 | 83 | 549939 | 152.360 ug/l | 99 |
| 48) Methyl methacrylate | 9.381 | 41 | 193027 | 171.718 ug/l | 98 |
| 49) 1,4-Dioxane | 9.387 | 88 | 42945 | 3130.342 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 995981 | 785.808 ug/l | 98 |
| 52) Toluene | 10.334 | 92 | 1047478 | 163.389 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 513701 | 164.149 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 608395 | 162.230 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 282953 | 147.173 ug/l | 97 |
| 56) Ethyl methacrylate | 10.598 | 69 | 371648 | 170.025 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 482430 | 155.216 ug/l | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 685621 | 878.344 ug/l | 99 |
| 59) 2-Hexanone | 10.922 | 43 | 778628 | 800.515 ug/l | 98 |
| 60) Dibromochloromethane | 11.075 | 129 | 383395 | 150.574 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 274148 | 151.906 ug/l | 99 |
| 64) Tetrachloroethene | 10.810 | 164 | 362996 | 150.628 ug/l | 95 |
| 65) Chlorobenzene | 11.604 | 112 | 1132662 | 154.843 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 400399 | 153.967 ug/l | 99 |
| 67) Ethyl Benzene | 11.681 | 91 | 2040746 | 168.552 ug/l | 98 |
| 68) m/p-Xylenes | 11.793 | 106 | 1574982 | 329.885 ug/l | 99 |
| 69) o-Xylene | 12.122 | 106 | 746360 | 172.143 ug/l | 100 |
| 70) Styrene | 12.134 | 104 | 1305941 | 169.422 ug/l | 98 |
| 71) Bromoform | 12.298 | 173 | 218732 | 148.964 ug/l # | 99 |
| 73) Isopropylbenzene | 12.416 | 105 | 1882432 | 175.935 ug/l | 99 |
| 74) N-amyl acetate | 12.234 | 43 | 379420 | 166.138 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 308208 | 148.981 ug/l | 97 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 201561m | 145.135 ug/l | |
| 77) Bromobenzene | 12.698 | 156 | 465296 | 165.156 ug/l | 99 |
| 78) n-propylbenzene | 12.763 | 91 | 2258034 | 170.541 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 1323867 | 168.224 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 1589836 | 175.671 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 114374 | 159.273 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 1375857 | 164.640 ug/l | 99 |
| 83) tert-Butylbenzene | 13.163 | 119 | 1355624 | 173.592 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 1629451 | 177.107 ug/l | 100 |
| 85) sec-Butylbenzene | 13.345 | 105 | 2021516 | 172.819 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 1745948 | 175.926 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 933982 | 160.215 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 900608 | 153.445 ug/l | 99 |
| 89) n-Butylbenzene | 13.787 | 91 | 1602847 | 173.733 ug/l | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 340255 | 157.232 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 792989 | 155.606 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 46800 | 148.171 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 528877 | 169.303 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.198 | 225 | 276433 | 161.248 ug/l | 99 |
| 95) Naphthalene | 15.328 | 128 | 943663 | 179.418 ug/l | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.516 | 180 | 463992 | 170.776 ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080016.D
Acq On : 14 Nov 2024 20:16
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:57:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

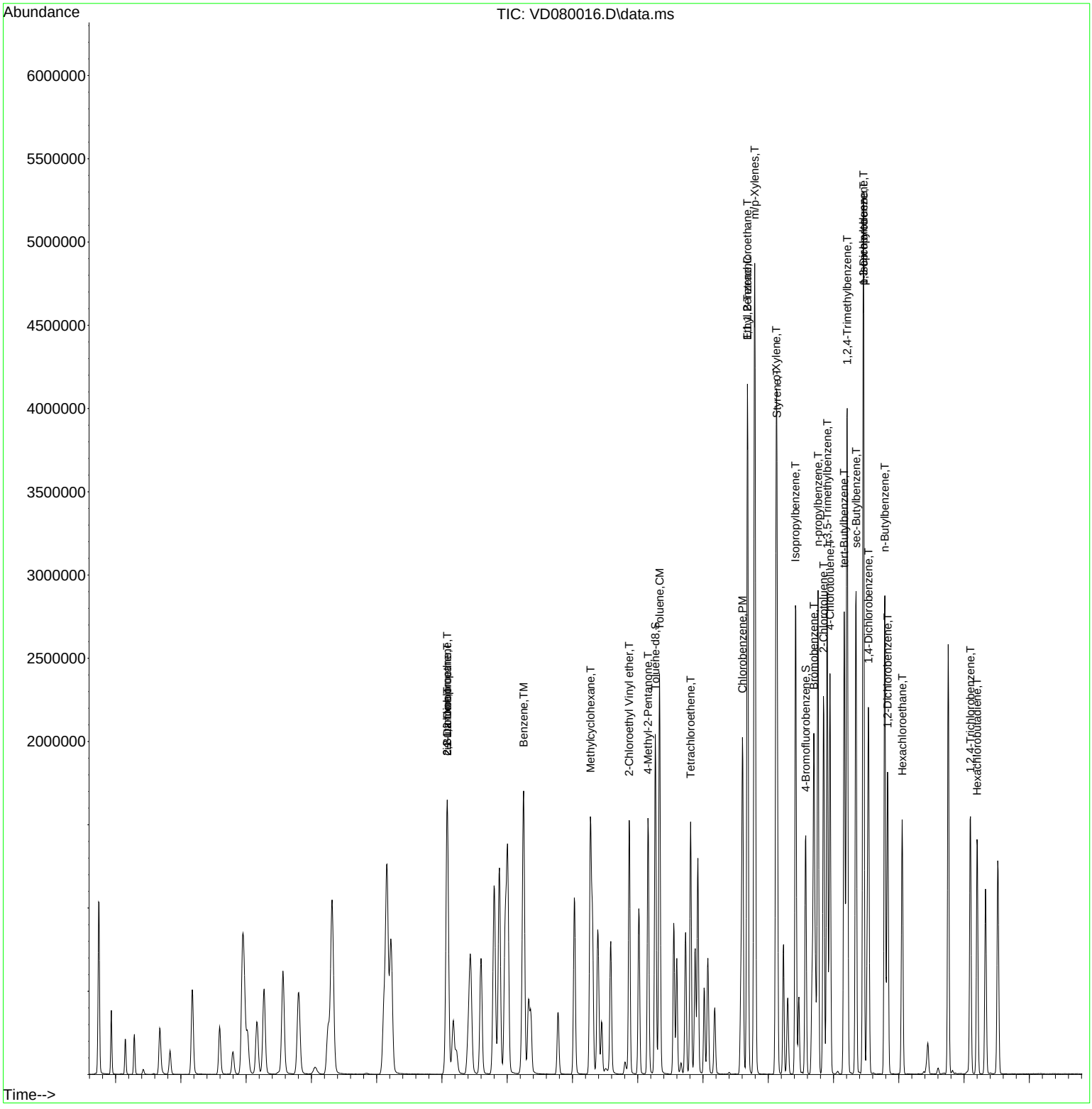
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080016.D
Acq On : 14 Nov 2024 20:16
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 05:57:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 244193 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 389195 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 361884 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 183572 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 116101 | 46.380 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 92.760% | | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 122552 | 47.101 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 94.200% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 474473 | 48.200 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.400% | | | |
| 62) 4-Bromofluorobenzene | 12.569 | 95 | 156455 | 47.384 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 94.760% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 101338 | 49.919 | ug/l | 99 |
| 3) Chloromethane | 2.146 | 50 | 68439 | 45.895 | ug/l | 100 |
| 4) Vinyl Chloride | 2.287 | 62 | 78620 | 44.980 | ug/l | 97 |
| 5) Bromomethane | 2.693 | 94 | 82968 | 39.180 | ug/l | 98 |
| 6) Chloroethane | 2.840 | 64 | 53701 | 45.283 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.181 | 101 | 206816 | 49.424 | ug/l | 92 |
| 8) Diethyl Ether | 3.593 | 74 | 63983 | 55.324 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 130426 | 49.384 | ug/l | 99 |
| 10) Methyl Iodide | 4.169 | 142 | 166750 | 58.133 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.052 | 59 | 33408 | 259.221 | ug/l # | 86 |
| 12) 1,1-Dichloroethene | 3.946 | 96 | 134459 | 53.056 | ug/l | 92 |
| 13) Acrolein | 3.799 | 56 | 74316 | 315.091 | ug/l | 100 |
| 14) Allyl chloride | 4.569 | 41 | 189573 | 55.174 | ug/l | 99 |
| 15) Acrylonitrile | 5.252 | 53 | 137933 | 278.850 | ug/l | 99 |
| 16) Acetone | 4.022 | 43 | 179902 | 235.032 | ug/l | 100 |
| 17) Carbon Disulfide | 4.275 | 76 | 431645 | 51.696 | ug/l | 98 |
| 18) Methyl Acetate | 4.564 | 43 | 64239 | 55.028 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.316 | 73 | 282228 | 55.559 | ug/l | 97 |
| 20) Methylene Chloride | 4.805 | 84 | 151056 | 48.445 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 146575 | 51.623 | ug/l | 99 |
| 22) Diisopropyl ether | 6.222 | 45 | 387995 | 53.688 | ug/l | 97 |
| 23) Vinyl Acetate | 6.158 | 43 | 1126759 | 277.317 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 245718 | 50.610 | ug/l | 98 |
| 25) 2-Butanone | 7.081 | 43 | 202634 | 269.993 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 205770 | 47.387 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.087 | 96 | 167299 | 51.293 | ug/l | 100 |
| 28) Bromochloromethane | 7.428 | 49 | 99887 | 45.871 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.446 | 42 | 105150 | 268.283 | ug/l | 97 |
| 30) Chloroform | 7.599 | 83 | 256281 | 47.569 | ug/l | 99 |
| 31) Cyclohexane | 7.881 | 56 | 204292 | 49.723 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.799 | 97 | 214106 | 47.610 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 182476 | 48.059 | ug/l | 99 |
| 37) Ethyl Acetate | 7.175 | 43 | 75498 | 47.877 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 191752 | 45.988 | ug/l | 95 |
| 39) Methylcyclohexane | 9.275 | 83 | 231781 | 52.339 | ug/l | 99 |
| 40) Benzene | 8.252 | 78 | 563121 | 48.008 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.405 | 41 | 45652 | 54.155 | ug/l | | 90 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 143676 | 46.757 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.363 | 43 | 142627 | 49.774 | ug/l | | 100 |
| 44) Trichloroethene | 9.034 | 130 | 143864 | 47.559 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 133589 | 47.859 | ug/l | | 95 |
| 46) Dibromomethane | 9.393 | 93 | 78959 | 48.131 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.587 | 83 | 193303 | 47.006 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.381 | 41 | 68420 | 53.424 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.381 | 88 | 14666 | 938.310 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 369264 | 255.716 | ug/l | | 98 |
| 52) Toluene | 10.334 | 92 | 356677 | 48.832 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 176151 | 49.405 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 209186 | 48.959 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 101783 | 46.467 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.599 | 69 | 130374 | 52.351 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 171963 | 48.562 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 213360 | 239.910 | ug/l | | 99 |
| 59) 2-Hexanone | 10.922 | 43 | 294115 | 265.407 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.075 | 129 | 134532 | 46.375 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 99426 | 48.356 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.810 | 164 | 127975 | 46.852 | ug/l | | 96 |
| 65) Chlorobenzene | 11.604 | 112 | 401764 | 48.458 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 135431 | 45.947 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.681 | 91 | 669802 | 48.808 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.793 | 106 | 528345 | 97.635 | ug/l | | 98 |
| 69) o-Xylene | 12.116 | 106 | 245639 | 49.985 | ug/l | | 100 |
| 70) Styrene | 12.134 | 104 | 434113 | 49.688 | ug/l | | 99 |
| 71) Bromoform | 12.298 | 173 | 77620 | 46.638 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.416 | 105 | 635429 | 52.692 | ug/l | | 100 |
| 74) N-amyl acetate | 12.234 | 43 | 137462 | 53.405 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 112154 | 48.101 | ug/l | | 96 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 70975m | 45.344 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 160689 | 50.606 | ug/l | | 98 |
| 78) n-propylbenzene | 12.763 | 91 | 778795 | 52.188 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 452375 | 51.002 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 538503 | 52.794 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 40839 | 50.459 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 479247 | 50.883 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.163 | 119 | 450778 | 51.215 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 542659 | 52.332 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.340 | 105 | 694307 | 52.664 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 588614 | 52.623 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 317472 | 48.319 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 309159 | 46.736 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.787 | 91 | 549076 | 52.805 | ug/l | | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 115994 | 47.558 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 276853 | 48.201 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 17466 | 49.064 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 183105 | 52.006 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.198 | 225 | 99172 | 51.326 | ug/l | | 98 |
| 95) Naphthalene | 15.328 | 128 | 325827 | 54.965 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.516 | 180 | 162524 | 53.074 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

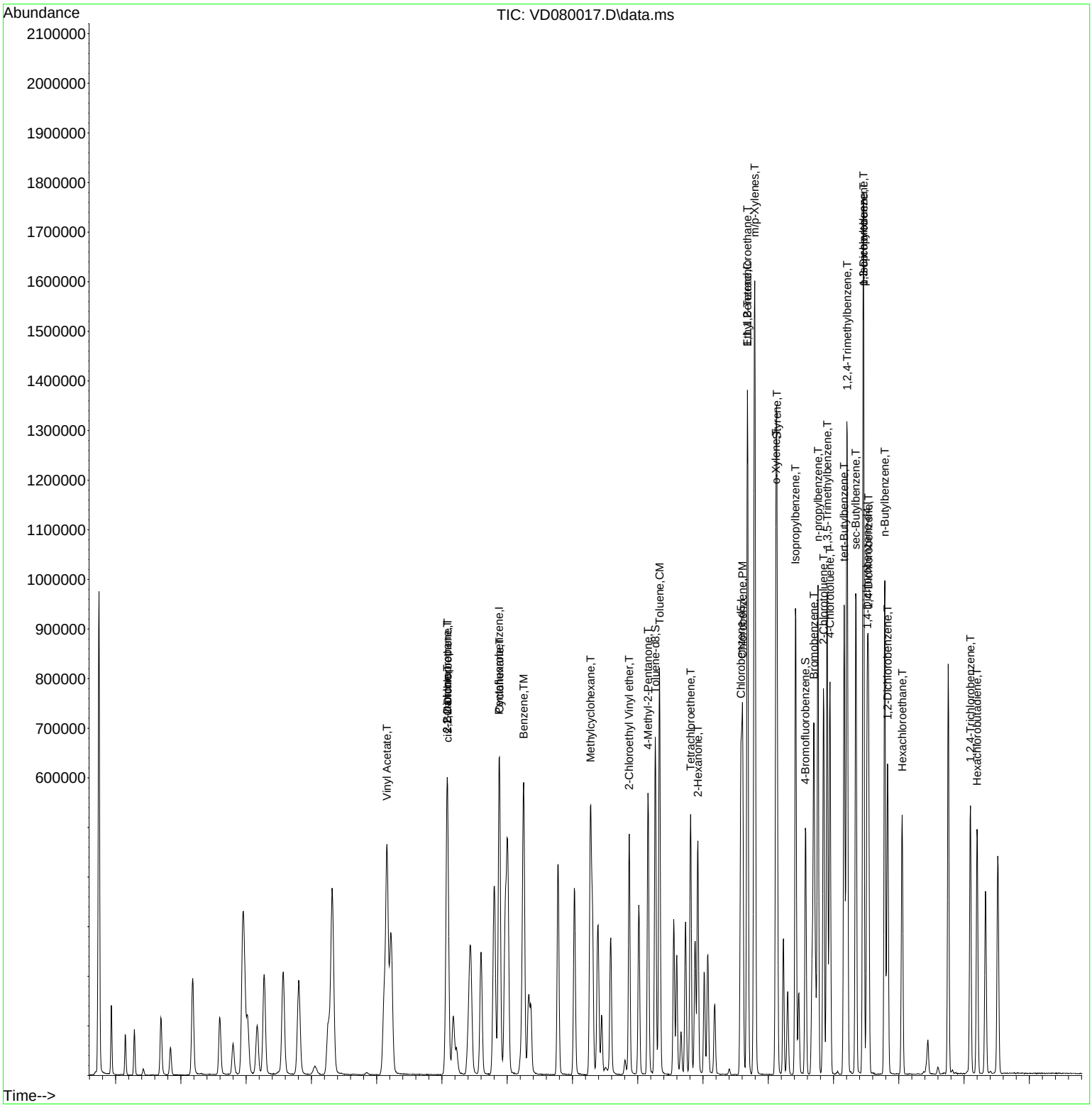
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 120 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.416 | 0.415 | 0.2 | 106 | 0.00 |
| 3 | P | Chloromethane | 0.305 | 0.280 | 8.2 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 0.358 | 0.322 | 10.1# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.434 | 0.340 | 21.7 | 96 | 0.00 |
| 6 | T | Chloroethane | 0.243 | 0.220 | 9.5 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.857 | 0.847 | 1.2 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 0.237 | 0.262 | -10.5 | 120 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.541 | 0.534 | 1.3 | 112 | 0.00 |
| 10 | T | Methyl Iodide | 0.480 | 0.683 | -42.3# | 120 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.026 | 0.027 | -3.8 | 121 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.519 | 0.551 | -6.2# | 116 | 0.00 |
| 13 | T | Acrolein | 0.048 | 0.061 | -27.1# | 126 | 0.00 |
| 14 | T | Allyl chloride | 0.704 | 0.776 | -10.2 | 114 | 0.00 |
| 15 | T | Acrylonitrile | 0.101 | 0.113 | -11.9 | 119 | 0.00 |
| 16 | T | Acetone | 0.119 | 0.147 | -23.5 | 110 | 0.00 |
| 17 | T | Carbon Disulfide | 1.710 | 1.768 | -3.4 | 111 | 0.00 |
| 18 | T | Methyl Acetate | 0.239 | 0.263 | -10.0 | 118 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.040 | 1.156 | -11.2 | 117 | 0.00 |
| 20 | T | Methylene Chloride | 0.638 | 0.619 | 3.0 | 111 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.581 | 0.600 | -3.3 | 110 | 0.00 |
| 22 | T | Diisopropyl ether | 1.480 | 1.589 | -7.4 | 111 | 0.00 |
| 23 | T | Vinyl Acetate | 0.832 | 0.923 | -10.9 | 114 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.994 | 1.006 | -1.2 | 112 | 0.00 |
| 25 | T | 2-Butanone | 0.154 | 0.166 | -7.8 | 111 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.889 | 0.843 | 5.2 | 108 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.668 | 0.685 | -2.5 | 112 | 0.00 |
| 28 | T | Bromochloromethane | 0.446 | 0.409 | 8.3 | 111 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.080 | 0.086 | -7.5 | 117 | 0.00 |
| 30 | C | Chloroform | 1.103 | 1.050 | 4.8# | 108 | 0.00 |
| 31 | T | Cyclohexane | 0.841 | 0.837 | 0.5 | 111 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.921 | 0.877 | 4.8 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.513 | 0.475 | 7.4 | 118 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 127 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.334 | 0.315 | 5.7 | 119 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.488 | 0.469 | 3.9 | 108 | 0.00 |
| 37 | T | Ethyl Acetate | 0.203 | 0.194 | 4.4 | 115 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.536 | 0.493 | 8.0 | 109 | 0.00 |
| 39 | T | Methylcyclohexane | 0.569 | 0.596 | -4.7 | 117 | 0.00 |
| 40 | TM | Benzene | 1.507 | 1.447 | 4.0 | 108 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.117 | -8.3 | 133 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.395 | 0.369 | 6.6 | 109 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.368 | 0.366 | 0.5 | 116 | 0.00 |
| 44 | TM | Trichloroethene | 0.389 | 0.370 | 4.9 | 110 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.359 | 0.343 | 4.5# | 108 | 0.00 |
| 46 | T | Dibromomethane | 0.211 | 0.203 | 3.8 | 111 | 0.00 |
| 47 | T | Bromodichloromethane | 0.528 | 0.497 | 5.9 | 107 | 0.00 |
| 48 | T | Methyl methacrylate | 0.165 | 0.176 | -6.7 | 117 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 107 | 0.00 |
| 50 | S | Toluene-d8 | 1.265 | 1.219 | 3.6 | 120 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.186 | 0.190 | -2.2 | 114 | 0.00 |
| 52 | CM | Toluene | 0.938 | 0.916 | 2.3# | 107 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.458 | 0.453 | 1.1 | 111 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.549 | 0.537 | 2.2 | 109 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.281 | 0.262 | 6.8 | 111 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.320 | 0.335 | -4.7 | 114 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.455 | 0.442 | 2.9 | 112 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.114 | 0.110 | 3.5 | 116 | 0.00 |
| 59 | T | 2-Hexanone | 0.142 | 0.151 | -6.3 | 111 | 0.00 |
| 60 | T | Dibromochloromethane | 0.373 | 0.346 | 7.2 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.264 | 0.255 | 3.4 | 113 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.424 | 0.402 | 5.2 | 117 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 127 | 0.00 |
| 64 | T | Tetrachloroethene | 0.377 | 0.354 | 6.1 | 109 | 0.00 |
| 65 | PM | Chlorobenzene | 1.146 | 1.110 | 3.1 | 113 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.407 | 0.374 | 8.1 | 106 | 0.00 |
| 67 | C | Ethyl Benzene | 1.896 | 1.851 | 2.4# | 107 | 0.00 |
| 68 | T | m/p-Xylenes | 0.748 | 0.730 | 2.4 | 106 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.679 | 0.0 | 109 | 0.00 |
| 70 | T | Styrene | 1.207 | 1.200 | 0.6 | 108 | 0.00 |
| 71 | P | Bromoform | 0.230 | 0.214 | 7.0 | 108 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 120 | 0.00 |
| 73 | T | Isopropylbenzene | 3.285 | 3.461 | -5.4 | 109 | 0.00 |
| 74 | T | N-amyl acetate | 0.701 | 0.749 | -6.8 | 115 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.635 | 0.611 | 3.8 | 108 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.426 | 0.387 | 9.2 | 105 | 0.00 |
| 77 | T | Bromobenzene | 0.865 | 0.875 | -1.2 | 107 | 0.00 |
| 78 | T | n-propylbenzene | 4.065 | 4.242 | -4.4 | 107 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.416 | 2.464 | -2.0 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.778 | 2.933 | -5.6 | 108 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.220 | 0.222 | -0.9 | 110 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.565 | 2.611 | -1.8 | 108 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.397 | 2.456 | -2.5 | 105 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.824 | 2.956 | -4.7 | 107 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.591 | 3.782 | -5.3 | 108 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.047 | 3.206 | -5.2 | 108 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.790 | 1.729 | 3.4 | 106 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.802 | 1.684 | 6.5 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 2.832 | 2.991 | -5.6 | 109 | 0.00 |
| 90 | T | Hexachloroethane | 0.664 | 0.632 | 4.8 | 104 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.564 | 1.508 | 3.6 | 103 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.097 | 0.095 | 2.1 | 117 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.959 | 0.997 | -4.0 | 113 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.526 | 0.540 | -2.7 | 112 | 0.00 |
| 95 | T | Naphthalene | 1.615 | 1.775 | -9.9 | 117 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.834 | 0.885 | -6.1 | 113 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 120 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.919 | 0.2 | 106 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 45.895 | 8.2 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 44.980 | 10.0# | 96 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 39.180 | 21.6 | 96 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 45.283 | 9.4 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.424 | 1.2 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 55.324 | -10.6 | 120 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 49.384 | 1.2 | 112 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 58.133 | -16.3 | 120 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 259.221 | -3.7 | 121 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.056 | -6.1# | 116 | 0.00 |
| 13 | T | Acrolein | 250.000 | 315.091 | -26.0# | 126 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 55.174 | -10.3 | 114 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 278.850 | -11.5 | 119 | 0.00 |
| 16 | T | Acetone | 250.000 | 235.032 | 6.0 | 110 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 51.696 | -3.4 | 111 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 55.028 | -10.1 | 118 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 55.559 | -11.1 | 117 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 48.445 | 3.1 | 111 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.623 | -3.2 | 110 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 53.688 | -7.4 | 111 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 277.317 | -10.9 | 114 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.610 | -1.2 | 112 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 269.993 | -8.0 | 111 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 47.387 | 5.2 | 108 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.293 | -2.6 | 112 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 45.871 | 8.3 | 111 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 268.283 | -7.3 | 117 | 0.00 |
| 30 | C | Chloroform | 50.000 | 47.569 | 4.9# | 108 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 49.723 | 0.6 | 111 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 47.610 | 4.8 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 46.380 | 7.2 | 118 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 127 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 47.101 | 5.8 | 119 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.059 | 3.9 | 108 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 47.877 | 4.2 | 115 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 45.988 | 8.0 | 109 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 52.339 | -4.7 | 117 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.008 | 4.0 | 108 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 54.155 | -8.3 | 133 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.757 | 6.5 | 109 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 49.774 | 0.5 | 116 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 47.559 | 4.9 | 110 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 47.859 | 4.3# | 108 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 48.131 | 3.7 | 111 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 47.006 | 6.0 | 107 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 53.424 | -6.8 | 117 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 938.310 | 6.2 | 107 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.200 | 3.6 | 120 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 255.716 | -2.3 | 114 | 0.00 |
| 52 | CM | Toluene | 50.000 | 48.832 | 2.3# | 107 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.405 | 1.2 | 111 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.959 | 2.1 | 109 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 46.467 | 7.1 | 111 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 52.351 | -4.7 | 114 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 48.562 | 2.9 | 112 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 239.910 | 4.0 | 116 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 265.407 | -6.2 | 111 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 46.375 | 7.2 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 48.356 | 3.3 | 113 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 47.384 | 5.2 | 117 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 127 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.852 | 6.3 | 109 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.458 | 3.1 | 113 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 45.947 | 8.1 | 106 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 48.808 | 2.4# | 107 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 97.635 | 2.4 | 106 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.985 | 0.0 | 109 | 0.00 |
| 70 | T | Styrene | 50.000 | 49.688 | 0.6 | 108 | 0.00 |
| 71 | P | Bromoform | 50.000 | 46.638 | 6.7 | 108 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 120 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 52.692 | -5.4 | 109 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 53.405 | -6.8 | 115 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 48.101 | 3.8 | 108 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 45.344 | 9.3 | 105 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.606 | -1.2 | 107 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.188 | -4.4 | 107 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.002 | -2.0 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.794 | -5.6 | 108 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 50.459 | -0.9 | 110 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.883 | -1.8 | 108 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.215 | -2.4 | 105 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 52.332 | -4.7 | 107 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 52.664 | -5.3 | 108 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.623 | -5.2 | 108 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.319 | 3.4 | 106 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 46.736 | 6.5 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.805 | -5.6 | 109 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 47.558 | 4.9 | 104 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.201 | 3.6 | 103 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.064 | 1.9 | 117 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.006 | -4.0 | 113 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.326 | -2.7 | 112 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 54.965 | -9.9 | 117 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 53.074 | -6.1 | 113 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080020.D
Acq On : 15 Nov 2024 10:04
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:08:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.881 | 168 | 189713 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 311169 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 273942 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.522 | 152 | 133328 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 10505 | 5.378 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 10.760%# | | | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 10411 | 5.027 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 10.060%# | | | | |
| 50) Toluene-d8 | 10.269 | 98 | 36171 | 4.634 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 9.260%# | | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 12083 | 4.718 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 9.440%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.940 | 85 | 8819 | 5.792 | ug/l | | 99 |
| 3) Chloromethane | 2.152 | 50 | 6261 | 5.592 | ug/l | | 100 |
| 4) Vinyl Chloride | 2.293 | 62 | 7155 | 5.597 | ug/l | | 97 |
| 5) Bromomethane | 2.699 | 94 | 8552 | 5.560 | ug/l | | 94 |
| 6) Chloroethane | 2.846 | 64 | 4824 | 5.280 | ug/l | # | 70 |
| 7) Trichlorofluoromethane | 3.181 | 101 | 17739 | 5.650 | ug/l | | 88 |
| 8) Diethyl Ether | 3.599 | 74 | 4370 | 4.768 | ug/l | | 89 |
| 9) 1,1,2-Trichlorotrifluo... | 3.981 | 101 | 10831 | 5.522 | ug/l | | 89 |
| 10) Methyl Iodide | 4.175 | 142 | 9847 | 4.056 | ug/l | | 98 |
| 11) Tert butyl alcohol | 5.046 | 59 | 2903m | 28.440 | ug/l | | |
| 12) 1,1-Dichloroethene | 3.958 | 96 | 10151 | 5.164 | ug/l | # | 69 |
| 13) Acrolein | 3.799 | 56 | 4412 | 22.621 | ug/l | | 93 |
| 14) Allyl chloride | 4.564 | 41 | 14457 | 5.188 | ug/l | | 96 |
| 15) Acrylonitrile | 5.264 | 53 | 9914 | 24.349 | ug/l | | 98 |
| 16) Acetone | 4.028 | 43 | 9552 | 22.539 | ug/l | | 97 |
| 17) Carbon Disulfide | 4.281 | 76 | 32712 | 5.168 | ug/l | | 95 |
| 18) Methyl Acetate | 4.564 | 43 | 5121 | 5.448 | ug/l | # | 76 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 16640 | 4.149 | ug/l | | 92 |
| 20) Methylene Chloride | 4.799 | 84 | 12192 | 5.359 | ug/l | | 94 |
| 21) trans-1,2-Dichloroethene | 5.322 | 96 | 11170 | 5.140 | ug/l | | 96 |
| 22) Diisopropyl ether | 6.216 | 45 | 24542 | 4.349 | ug/l | # | 94 |
| 23) Vinyl Acetate | 6.164 | 43 | 68903 | 21.313 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 19262 | 5.133 | ug/l | | 97 |
| 25) 2-Butanone | 7.081 | 43 | 12819 | 23.147 | ug/l | | 95 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 17908 | 5.490 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 7.087 | 96 | 12614 | 5.058 | ug/l | | 97 |
| 28) Bromochloromethane | 7.422 | 49 | 9601 | 5.749 | ug/l | | 99 |
| 29) Tetrahydrofuran | 7.452 | 42 | 6647 | 21.911 | ug/l | | 95 |
| 30) Chloroform | 7.593 | 83 | 20052 | 5.072 | ug/l | | 99 |
| 31) Cyclohexane | 7.881 | 56 | 17921 | 5.634 | ug/l | # | 70 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 18407 | 5.440 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 8.005 | 75 | 14449 | 5.102 | ug/l | | 97 |
| 37) Ethyl Acetate | 7.169 | 43 | 5908 | 4.854 | ug/l | # | 93 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 16203 | 5.237 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.275 | 83 | 16077 | 4.769 | ug/l | | 93 |
| 40) Benzene | 8.258 | 78 | 43278 | 4.903 | ug/l | | 96 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080020.D
Acq On : 15 Nov 2024 10:04
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:08:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.399 | 41 | 3000 | 2.038 ug/l | 93 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 11688 | 5.117 ug/l | 99 |
| 43) Isopropyl Acetate | 8.363 | 43 | 9952 | 4.510 ug/l # | 83 |
| 44) Trichloroethene | 9.034 | 130 | 11762 | 5.150 ug/l | 79 |
| 45) 1,2-Dichloropropane | 9.305 | 63 | 10360 | 4.884 ug/l # | 88 |
| 46) Dibromomethane | 9.393 | 93 | 6271 | 5.083 ug/l | 96 |
| 47) Bromodichloromethane | 9.581 | 83 | 15961 | 5.168 ug/l | 97 |
| 48) Methyl methacrylate | 9.387 | 41 | 4647 | 4.412 ug/l | 96 |
| 49) 1,4-Dioxane | 9.393 | 88 | 837 | 73.952 ug/l # | 86 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 24839 | 22.189 ug/l | 94 |
| 52) Toluene | 10.334 | 92 | 25315 | 4.615 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.557 | 75 | 12479 | 4.533 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 15257 | 4.681 ug/l | 96 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 7959 | 4.876 ug/l | 93 |
| 56) Ethyl methacrylate | 10.599 | 69 | 7483 | 3.942 ug/l | 93 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 12699 | 4.782 ug/l | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 15740 | 21.926 ug/l | 93 |
| 59) 2-Hexanone | 10.922 | 43 | 16817 | 20.424 ug/l | 96 |
| 60) Dibromochloromethane | 11.075 | 129 | 9857 | 4.692 ug/l | 95 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 7272 | 4.725 ug/l | 96 |
| 64) Tetrachloroethene | 10.810 | 164 | 10583 | 5.425 ug/l # | 89 |
| 65) Chlorobenzene | 11.604 | 112 | 31166 | 5.215 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 10052 | 4.832 ug/l | 100 |
| 67) Ethyl Benzene | 11.687 | 91 | 47656 | 4.753 ug/l | 93 |
| 68) m/p-Xylenes | 11.799 | 106 | 35452 | 9.047 ug/l | 97 |
| 69) o-Xylene | 12.122 | 106 | 14859 | 4.218 ug/l | 97 |
| 70) Styrene | 12.140 | 104 | 26554 | 4.224 ug/l | 99 |
| 71) Bromoform | 12.298 | 173 | 6576 | 5.362 ug/l # | 88 |
| 73) Isopropylbenzene | 12.422 | 105 | 40600 | 4.722 ug/l | 98 |
| 74) N-amyl acetate | 12.234 | 43 | 9048 | 4.776 ug/l | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 8815 | 5.335 ug/l | 97 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 7306m | 3.576 ug/l | |
| 77) Bromobenzene | 12.698 | 156 | 11390 | 5.097 ug/l | 94 |
| 78) n-propylbenzene | 12.763 | 91 | 51645 | 4.860 ug/l | 97 |
| 79) 2-Chlorotoluene | 12.851 | 91 | 30791 | 4.941 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 34062 | 4.681 ug/l | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 2833 | 4.925 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 32543 | 4.885 ug/l | 96 |
| 83) tert-Butylbenzene | 13.169 | 119 | 30017 | 4.763 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.216 | 105 | 31817 | 4.352 ug/l | 100 |
| 85) sec-Butylbenzene | 13.345 | 105 | 43895 | 4.712 ug/l | 95 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 35736 | 4.538 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 22815 | 5.042 ug/l | 97 |
| 88) 1,4-Dichlorobenzene | 13.540 | 146 | 24118 | 5.307 ug/l | 96 |
| 89) n-Butylbenzene | 13.787 | 91 | 35402 | 4.779 ug/l | 98 |
| 90) Hexachloroethane | 14.051 | 117 | 9043 | 5.357 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.834 | 146 | 20003 | 5.070 ug/l | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75 | 1113 | 4.454 ug/l | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 12171 | 4.919 ug/l | 94 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 6909 | 5.167 ug/l | 96 |
| 95) Naphthalene | 15.334 | 128 | 18467 | 4.394 ug/l | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.516 | 180 | 10212 | 4.700 ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080020.D
Acq On : 15 Nov 2024 10:04
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:08:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

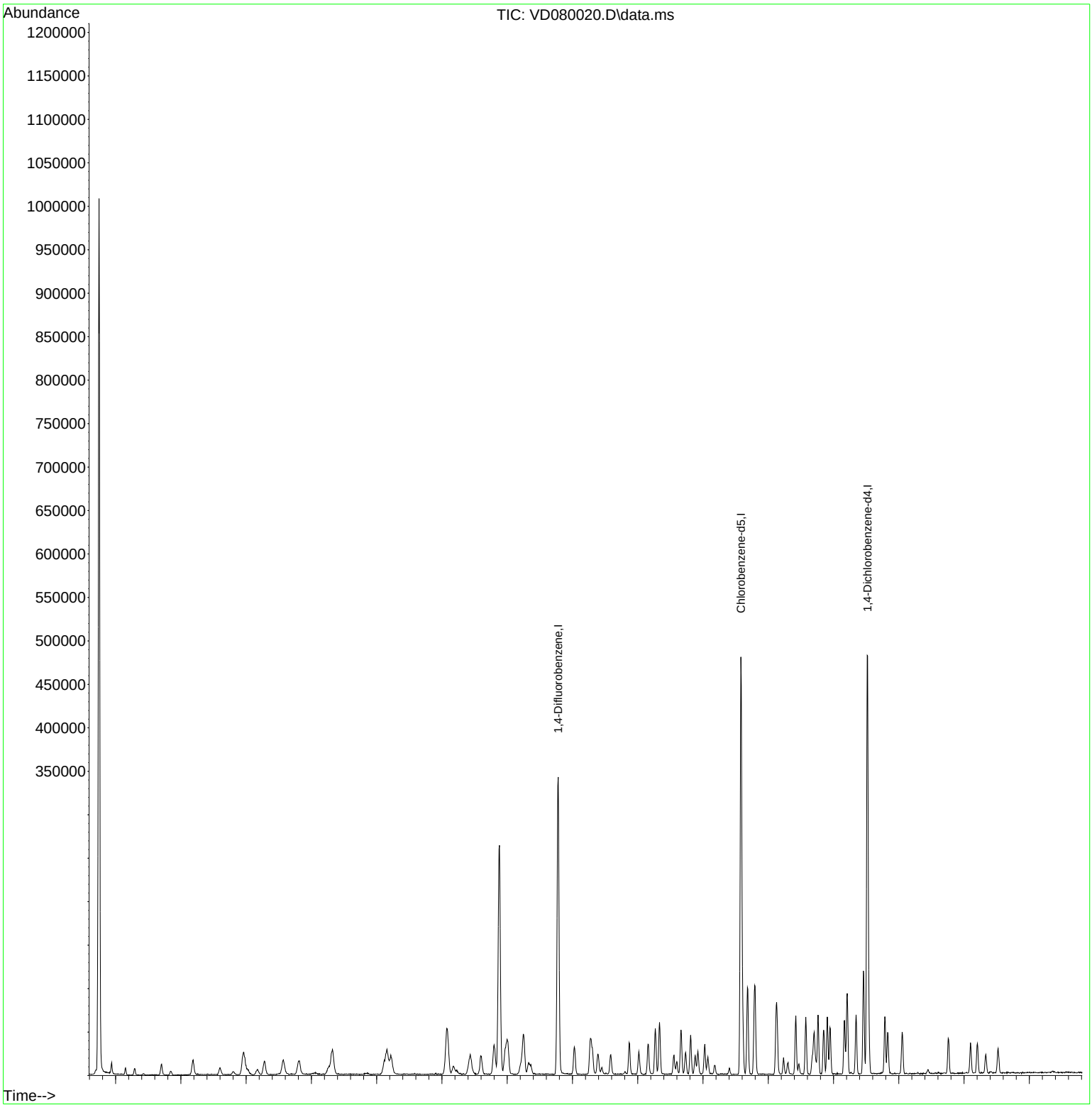
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080020.D
Acq On : 15 Nov 2024 10:04
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 16:08:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080021.D
Acq On : 15 Nov 2024 10:31
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.881 | 168 | 178175 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 287986 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 263426 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 138277 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 18952 | 10.331 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 20.660%# | | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 20553 | 10.723 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 21.440%# | | | |
| 50) Toluene-d8 | 10.269 | 98 | 71954 | 9.961 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 19.920%# | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 22552 | 9.515 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 19.040%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 13842 | 9.680 | ug/l | | 97 |
| 3) Chloromethane | 2.146 | 50 | 12401 | 11.793 | ug/l | | 89 |
| 4) Vinyl Chloride | 2.287 | 62 | 13900 | 11.578 | ug/l | | 93 |
| 5) Bromomethane | 2.693 | 94 | 17750 | 13.111 | ug/l | | 99 |
| 6) Chloroethane | 2.846 | 64 | 11012 | 12.832 | ug/l | | 92 |
| 7) Trichlorofluoromethane | 3.181 | 101 | 32750 | 11.106 | ug/l | | 94 |
| 8) Diethyl Ether | 3.599 | 74 | 8996 | 10.451 | ug/l | | 93 |
| 9) 1,1,2-Trichlorotrifluo... | 3.975 | 101 | 20048 | 10.884 | ug/l | | 97 |
| 10) Methyl Iodide | 4.163 | 142 | 20009 | 8.776 | ug/l | | 94 |
| 11) Tert butyl alcohol | 5.052 | 59 | 5055 | 52.729 | ug/l | | 97 |
| 12) 1,1-Dichloroethene | 3.946 | 96 | 19251 | 10.427 | ug/l | | 87 |
| 13) Acrolein | 3.793 | 56 | 10204 | 55.704 | ug/l | | 99 |
| 14) Allyl chloride | 4.569 | 41 | 25997 | 9.934 | ug/l | | 95 |
| 15) Acrylonitrile | 5.263 | 53 | 19646 | 51.375 | ug/l | | 99 |
| 16) Acetone | 4.022 | 43 | 20727 | 52.074 | ug/l | | 92 |
| 17) Carbon Disulfide | 4.275 | 76 | 63880 | 10.745 | ug/l | | 100 |
| 18) Methyl Acetate | 4.563 | 43 | 8941 | 10.128 | ug/l | | 95 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 37661 | 9.999 | ug/l | | 90 |
| 20) Methylene Chloride | 4.805 | 84 | 22377 | 10.474 | ug/l | | 92 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 20646 | 10.116 | ug/l | | 96 |
| 22) Diisopropyl ether | 6.222 | 45 | 52123 | 9.835 | ug/l | # | 98 |
| 23) Vinyl Acetate | 6.157 | 43 | 142667 | 46.988 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 6.110 | 63 | 37065 | 10.516 | ug/l | | 97 |
| 25) 2-Butanone | 7.087 | 43 | 25198 | 48.445 | ug/l | | 97 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 31976 | 10.437 | ug/l | | 94 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 23130 | 9.875 | ug/l | | 98 |
| 28) Bromochloromethane | 7.422 | 49 | 17639 | 11.245 | ug/l | # | 97 |
| 29) Tetrahydrofuran | 7.451 | 42 | 13995 | 49.120 | ug/l | | 98 |
| 30) Chloroform | 7.598 | 83 | 40716 | 10.965 | ug/l | | 94 |
| 31) Cyclohexane | 7.881 | 56 | 30954 | 10.362 | ug/l | # | 89 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 33127 | 10.424 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 26012 | 9.925 | ug/l | | 98 |
| 37) Ethyl Acetate | 7.169 | 43 | 11927 | 10.588 | ug/l | # | 92 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 29687 | 10.368 | ug/l | | 89 |
| 39) Methylcyclohexane | 9.269 | 83 | 29657 | 9.505 | ug/l | | 93 |
| 40) Benzene | 8.251 | 78 | 82374 | 10.084 | ug/l | | 95 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080021.D
Acq On : 15 Nov 2024 10:31
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.404 | 41 | 6209 | 4.557 ug/l | 94 |
| 42) 1,2-Dichloroethane | 8.322 | 62 | 22011 | 10.411 ug/l | 96 |
| 43) Isopropyl Acetate | 8.357 | 43 | 20152 | 9.869 ug/l # | 89 |
| 44) Trichloroethene | 9.028 | 130 | 22404 | 10.598 ug/l | 91 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 19870 | 10.121 ug/l | 99 |
| 46) Dibromomethane | 9.398 | 93 | 12139 | 10.631 ug/l | 97 |
| 47) Bromodichloromethane | 9.587 | 83 | 29028 | 10.156 ug/l | 93 |
| 48) Methyl methacrylate | 9.387 | 41 | 9439 | 9.682 ug/l | 96 |
| 49) 1,4-Dioxane | 9.375 | 88 | 1935 | 184.728 ug/l # | 90 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 47364 | 45.717 ug/l | 98 |
| 52) Toluene | 10.334 | 92 | 49756 | 9.801 ug/l | 97 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 25333 | 9.943 ug/l | 95 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 28831 | 9.558 ug/l | 96 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 15900 | 10.525 ug/l | 94 |
| 56) Ethyl methacrylate | 10.598 | 69 | 16022 | 9.121 ug/l # | 94 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 25080 | 10.205 ug/l | 94 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 29009 | 43.662 ug/l | 98 |
| 59) 2-Hexanone | 10.922 | 43 | 35730 | 46.887 ug/l | 99 |
| 60) Dibromochloromethane | 11.075 | 129 | 20069 | 10.321 ug/l | 96 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 14443 | 10.140 ug/l | 97 |
| 64) Tetrachloroethene | 10.810 | 164 | 19229 | 10.250 ug/l | 94 |
| 65) Chlorobenzene | 11.604 | 112 | 58061 | 10.104 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 20899 | 10.448 ug/l | 96 |
| 67) Ethyl Benzene | 11.681 | 91 | 90326 | 9.368 ug/l | 97 |
| 68) m/p-Xylenes | 11.792 | 106 | 72455 | 19.228 ug/l | 96 |
| 69) o-Xylene | 12.122 | 106 | 31339 | 9.252 ug/l | 100 |
| 70) Styrene | 12.134 | 104 | 56244 | 9.303 ug/l | 99 |
| 71) Bromoform | 12.304 | 173 | 11693 | 9.915 ug/l # | 99 |
| 73) Isopropylbenzene | 12.422 | 105 | 85547 | 9.593 ug/l | 98 |
| 74) N-amyl acetate | 12.234 | 43 | 18256 | 9.291 ug/l | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83 | 18144 | 10.587 ug/l | 93 |
| 76) 1,2,3-Trichloropropane | 12.716 | 75 | 13718m | 6.474 ug/l | |
| 77) Bromobenzene | 12.698 | 156 | 22784 | 9.832 ug/l | 99 |
| 78) n-propylbenzene | 12.763 | 91 | 103220 | 9.366 ug/l | 97 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 61833 | 9.568 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 69449 | 9.202 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.463 | 75 | 5550 | 9.303 ug/l | 93 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 67897 | 9.828 ug/l | 96 |
| 83) tert-Butylbenzene | 13.169 | 119 | 59728 | 9.138 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 71367 | 9.413 ug/l | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 90478 | 9.365 ug/l | 97 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 74836 | 9.164 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 45718 | 9.742 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.533 | 146 | 48934 | 10.383 ug/l | 98 |
| 89) n-Butylbenzene | 13.786 | 91 | 72926 | 9.492 ug/l | 98 |
| 90) Hexachloroethane | 14.051 | 117 | 17927 | 10.240 ug/l | 94 |
| 91) 1,2-Dichlorobenzene | 13.833 | 146 | 41526 | 10.148 ug/l | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75 | 3003 | 11.588 ug/l | 86 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 23795 | 9.273 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 13622 | 9.823 ug/l | 95 |
| 95) Naphthalene | 15.328 | 128 | 39060 | 8.962 ug/l # | 93 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 21630 | 9.599 ug/l | 96 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080021.D
Acq On : 15 Nov 2024 10:31
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 16:09:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

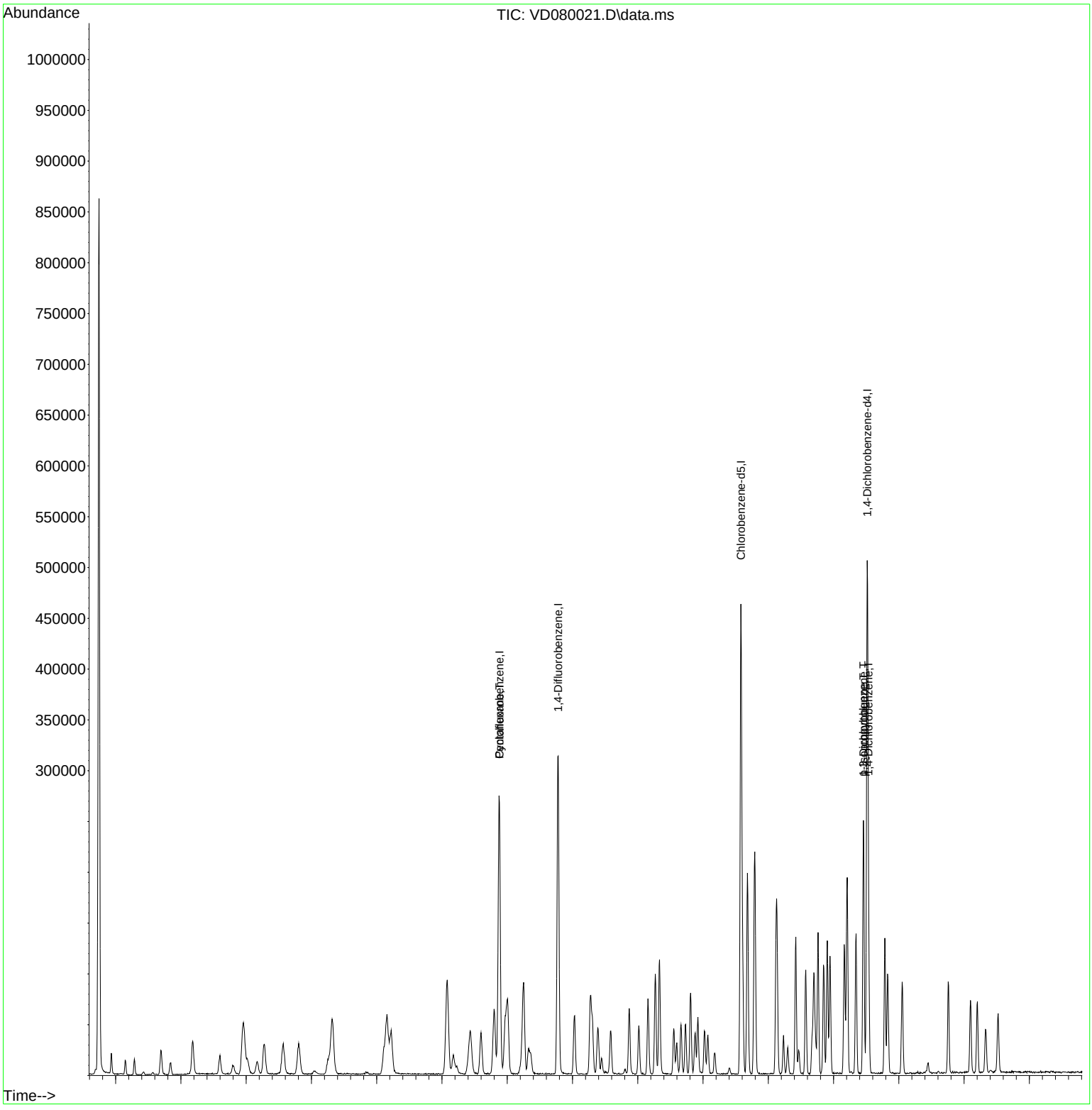
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080021.D
Acq On : 15 Nov 2024 10:31
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 16:09:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080022.D
Acq On : 15 Nov 2024 10:58
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.881 | 168 | 207470 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 333694 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.580 | 117 | 304255 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 161583 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 37444 | 17.529 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 35.060%# | | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 38063 | 17.139 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 34.280%# | | | |
| 50) Toluene-d8 | 10.269 | 98 | 145147 | 17.341 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 34.680%# | | | |
| 62) 4-Bromofluorobenzene | 12.574 | 95 | 47117 | 17.157 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 34.320% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 30221 | 18.150 | ug/l | | 98 |
| 3) Chloromethane | 2.151 | 50 | 23156 | 18.911 | ug/l | | 99 |
| 4) Vinyl Chloride | 2.287 | 62 | 25882 | 18.515 | ug/l | | 95 |
| 5) Bromomethane | 2.687 | 94 | 28616 | 18.506 | ug/l | | 95 |
| 6) Chloroethane | 2.840 | 64 | 18938 | 18.953 | ug/l | | 91 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 63352 | 18.451 | ug/l | | 96 |
| 8) Diethyl Ether | 3.598 | 74 | 18096 | 18.054 | ug/l | | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 40293 | 18.785 | ug/l | | 91 |
| 10) Methyl Iodide | 4.163 | 142 | 49960 | 18.818 | ug/l | | 98 |
| 11) Tert butyl alcohol | 5.057 | 59 | 10999 | 98.531 | ug/l | # | 92 |
| 12) 1,1-Dichloroethene | 3.951 | 96 | 41001 | 19.072 | ug/l | | 83 |
| 13) Acrolein | 3.798 | 56 | 17828 | 83.582 | ug/l | | 94 |
| 14) Allyl chloride | 4.569 | 41 | 59125 | 19.402 | ug/l | | 98 |
| 15) Acrylonitrile | 5.263 | 53 | 43596 | 97.907 | ug/l | | 99 |
| 16) Acetone | 4.022 | 43 | 37909 | 81.793 | ug/l | # | 86 |
| 17) Carbon Disulfide | 4.275 | 76 | 128786 | 18.604 | ug/l | | 99 |
| 18) Methyl Acetate | 4.563 | 43 | 20590 | 20.031 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 83889 | 19.127 | ug/l | | 94 |
| 20) Methylene Chloride | 4.804 | 84 | 50759 | 20.403 | ug/l | | 94 |
| 21) trans-1,2-Dichloroethene | 5.322 | 96 | 44449 | 18.703 | ug/l | | 94 |
| 22) Diisopropyl ether | 6.216 | 45 | 123437 | 20.003 | ug/l | | 97 |
| 23) Vinyl Acetate | 6.157 | 43 | 338859 | 95.846 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 79716 | 19.423 | ug/l | | 99 |
| 25) 2-Butanone | 7.087 | 43 | 57703 | 95.273 | ug/l | | 92 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 68644 | 19.241 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 51492 | 18.880 | ug/l | | 99 |
| 28) Bromochloromethane | 7.422 | 49 | 34556 | 18.920 | ug/l | # | 96 |
| 29) Tetrahydrofuran | 7.451 | 42 | 30913 | 93.178 | ug/l | | 96 |
| 30) Chloroform | 7.598 | 83 | 83979 | 19.422 | ug/l | | 92 |
| 31) Cyclohexane | 7.881 | 56 | 64750 | 18.615 | ug/l | | 95 |
| 32) 1,1,1-Trichloroethane | 7.792 | 97 | 70650 | 19.093 | ug/l | | 97 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 57538 | 18.947 | ug/l | | 100 |
| 37) Ethyl Acetate | 7.175 | 43 | 24232 | 18.565 | ug/l | # | 82 |
| 38) Carbon Tetrachloride | 7.992 | 117 | 64398 | 19.409 | ug/l | | 98 |
| 39) Methylcyclohexane | 9.275 | 83 | 63504 | 17.564 | ug/l | | 95 |
| 40) Benzene | 8.251 | 78 | 180359 | 19.054 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080022.D
Acq On : 15 Nov 2024 10:58
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.398 | 41 | 13991 | 8.863 | ug/l | # | 90 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 46713 | 19.069 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.363 | 43 | 45489 | 19.225 | ug/l | | 99 |
| 44) Trichloroethene | 9.028 | 130 | 45515 | 18.582 | ug/l | | 92 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 43886 | 19.293 | ug/l | | 99 |
| 46) Dibromomethane | 9.398 | 93 | 25318 | 19.135 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.586 | 83 | 63022 | 19.030 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.380 | 41 | 21459 | 18.997 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.386 | 88 | 4525 | 372.814 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 114924 | 95.733 | ug/l | | 98 |
| 52) Toluene | 10.333 | 92 | 109805 | 18.667 | ug/l | | 95 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 56000 | 18.969 | ug/l | | 91 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 67497 | 19.312 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.733 | 97 | 33419 | 19.092 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.598 | 69 | 37039 | 18.197 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 10.880 | 76 | 54029 | 18.974 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 66445 | 86.309 | ug/l | | 96 |
| 59) 2-Hexanone | 10.922 | 43 | 81441 | 92.232 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.075 | 129 | 42654 | 18.931 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.180 | 107 | 31586 | 19.138 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.810 | 164 | 40964 | 18.906 | ug/l | | 98 |
| 65) Chlorobenzene | 11.604 | 112 | 124572 | 18.769 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.680 | 131 | 44230 | 19.145 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.686 | 91 | 206092 | 18.506 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.792 | 106 | 166351 | 38.223 | ug/l | | 98 |
| 69) o-Xylene | 12.122 | 106 | 73527 | 18.794 | ug/l | | 94 |
| 70) Styrene | 12.133 | 104 | 134490 | 19.260 | ug/l | | 99 |
| 71) Bromoform | 12.298 | 173 | 26209 | 19.241 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.422 | 105 | 192187 | 18.444 | ug/l | | 100 |
| 74) N-amyl acetate | 12.227 | 43 | 41904 | 18.251 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 37794 | 18.873 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.716 | 75 | 25503m | 10.300 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 50581 | 18.678 | ug/l | | 98 |
| 78) n-propylbenzene | 12.763 | 91 | 240557 | 18.680 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 143286 | 18.974 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 167256 | 18.965 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 13278 | 19.046 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 155234 | 19.228 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.163 | 119 | 139175 | 18.222 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 167670 | 18.926 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.345 | 105 | 211232 | 18.710 | ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 177158 | 18.564 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 105146 | 19.174 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.533 | 146 | 103949 | 18.875 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.786 | 91 | 160004 | 17.822 | ug/l | | 98 |
| 90) Hexachloroethane | 14.051 | 117 | 38237 | 18.691 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.827 | 146 | 90973 | 19.026 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75 | 5811 | 19.190 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 55280 | 18.436 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 28314 | 17.472 | ug/l | | 96 |
| 95) Naphthalene | 15.327 | 128 | 90760 | 17.821 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.521 | 180 | 48547 | 18.437 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080022.D
Acq On : 15 Nov 2024 10:58
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

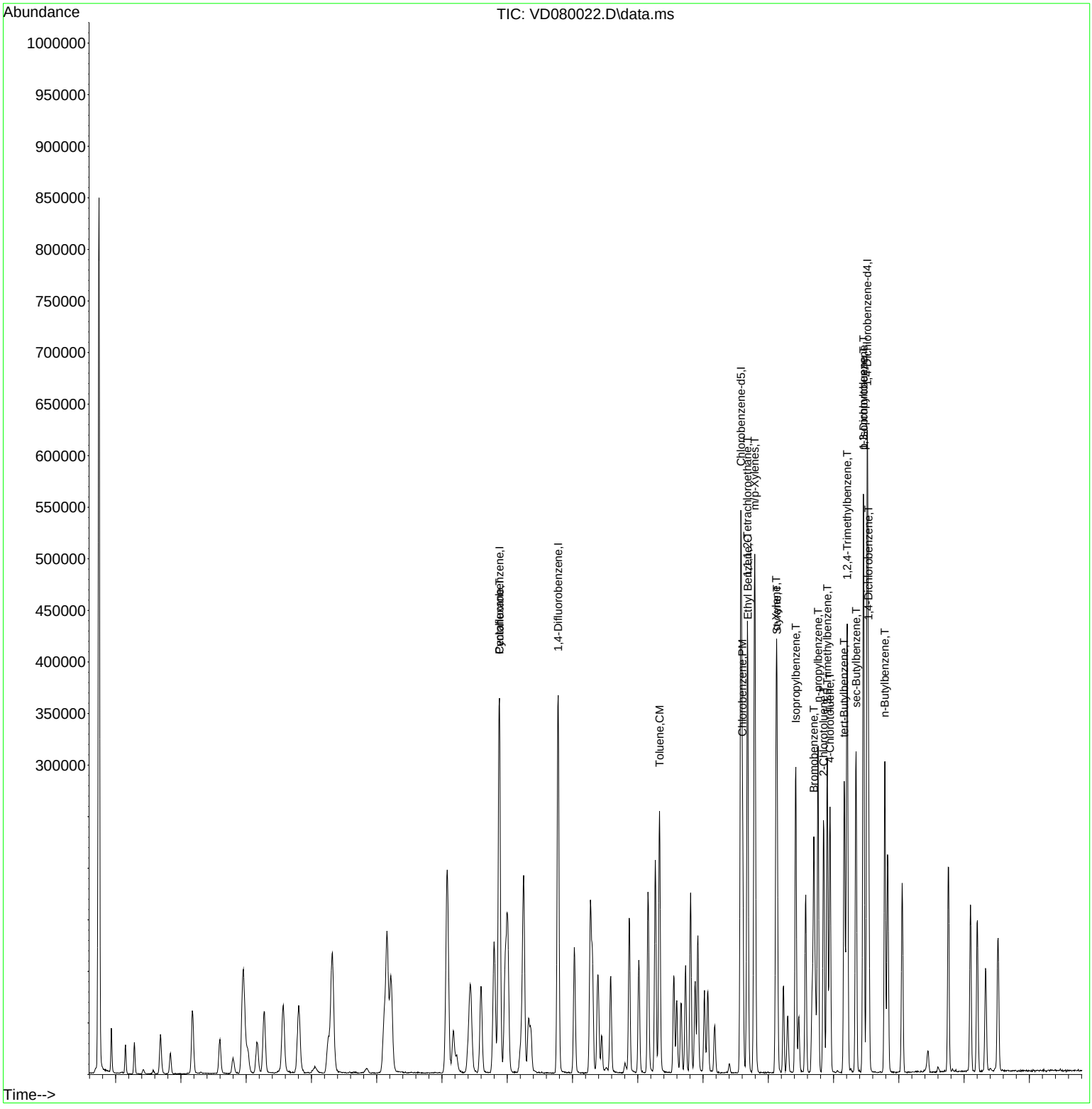
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080022.D
Acq On : 15 Nov 2024 10:58
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 16:09:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080023.D
Acq On : 15 Nov 2024 11:24
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.881 | 168 | 204238 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 319923 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 297995 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 156257 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 107370 | 51.060 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.120% | | | |
| 35) Dibromofluoromethane | 7.805 | 113 | 107989 | 50.718 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.440% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 425425 | 53.013 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 106.020% | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 139246 | 52.887 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 105.780% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 80818 | 49.304 | ug/l | 100 |
| 3) Chloromethane | 2.146 | 50 | 56320 | 46.722 | ug/l | 98 |
| 4) Vinyl Chloride | 2.287 | 62 | 65705 | 47.745 | ug/l | 95 |
| 5) Bromomethane | 2.693 | 94 | 62276 | 42.995 | ug/l | 96 |
| 6) Chloroethane | 2.840 | 64 | 42381 | 43.085 | ug/l | 91 |
| 7) Trichlorofluoromethane | 3.181 | 101 | 156382 | 46.266 | ug/l | 93 |
| 8) Diethyl Ether | 3.599 | 74 | 46243 | 46.866 | ug/l | 88 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 98328 | 46.568 | ug/l | 93 |
| 10) Methyl Iodide | 4.164 | 142 | 142220 | 54.416 | ug/l | 95 |
| 11) Tert butyl alcohol | 5.058 | 59 | 23347 | 212.457 | ug/l # | 94 |
| 12) 1,1-Dichloroethene | 3.946 | 96 | 100281 | 47.385 | ug/l | 86 |
| 13) Acrolein | 3.799 | 56 | 49036 | 233.531 | ug/l | 99 |
| 14) Allyl chloride | 4.564 | 41 | 130216 | 43.407 | ug/l | 92 |
| 15) Acrylonitrile | 5.252 | 53 | 102327 | 233.440 | ug/l | 99 |
| 16) Acetone | 4.022 | 43 | 107778 | 236.223 | ug/l # | 87 |
| 17) Carbon Disulfide | 4.275 | 76 | 317309 | 46.563 | ug/l | 100 |
| 18) Methyl Acetate | 4.564 | 43 | 43628 | 43.116 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 5.316 | 73 | 222163 | 51.457 | ug/l | 96 |
| 20) Methylene Chloride | 4.805 | 84 | 113580 | 46.377 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 5.311 | 96 | 117961 | 50.420 | ug/l | 89 |
| 22) Diisopropyl ether | 6.216 | 45 | 317583 | 52.280 | ug/l | 98 |
| 23) Vinyl Acetate | 6.158 | 43 | 930999 | 267.500 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.111 | 63 | 198703 | 49.181 | ug/l | 97 |
| 25) 2-Butanone | 7.081 | 43 | 157148 | 263.573 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 170966 | 48.681 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 133902 | 49.873 | ug/l | 99 |
| 28) Bromochloromethane | 7.422 | 49 | 83020 | 46.174 | ug/l # | 95 |
| 29) Tetrahydrofuran | 7.446 | 42 | 86841 | 265.900 | ug/l | 99 |
| 30) Chloroform | 7.599 | 83 | 208157 | 48.903 | ug/l | 98 |
| 31) Cyclohexane | 7.881 | 56 | 162733 | 47.523 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 177442 | 48.712 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 145755 | 50.063 | ug/l | 99 |
| 37) Ethyl Acetate | 7.169 | 43 | 62266 | 49.756 | ug/l # | 96 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 157125 | 49.395 | ug/l | 97 |
| 39) Methylcyclohexane | 9.275 | 83 | 177825 | 51.301 | ug/l | 97 |
| 40) Benzene | 8.252 | 78 | 459376 | 50.620 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080023.D
Acq On : 15 Nov 2024 11:24
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 16:10:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.393 | 41 | 33252 | 21.970 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 117850 | 50.179 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.363 | 43 | 117454 | 51.776 | ug/l | | 99 |
| 44) Trichloroethene | 9.028 | 130 | 115522 | 49.194 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.305 | 63 | 112751 | 51.700 | ug/l | | 98 |
| 46) Dibromomethane | 9.393 | 93 | 62584 | 49.337 | ug/l | | 94 |
| 47) Bromodichloromethane | 9.587 | 83 | 159563 | 50.254 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.381 | 41 | 56346 | 52.029 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.381 | 88 | 13386 | 1150.344 | ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 308499 | 268.045 | ug/l | | 100 |
| 52) Toluene | 10.334 | 92 | 293358 | 52.018 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.552 | 75 | 146694 | 51.828 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 173261 | 51.706 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 85516 | 50.957 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.599 | 69 | 105685 | 54.157 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 140185 | 51.349 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 197220 | 267.207 | ug/l | | 98 |
| 59) 2-Hexanone | 10.922 | 43 | 234554 | 277.067 | ug/l | | 97 |
| 60) Dibromochloromethane | 11.075 | 129 | 111533 | 51.633 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 80516 | 50.886 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.810 | 164 | 101766 | 47.954 | ug/l | | 96 |
| 65) Chlorobenzene | 11.604 | 112 | 318924 | 49.062 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 112677 | 49.796 | ug/l | | 95 |
| 67) Ethyl Benzene | 11.681 | 91 | 556007 | 50.976 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.793 | 106 | 433218 | 101.632 | ug/l | | 100 |
| 69) o-Xylene | 12.122 | 106 | 199568 | 52.084 | ug/l | | 94 |
| 70) Styrene | 12.134 | 104 | 361279 | 52.826 | ug/l | | 98 |
| 71) Bromoform | 12.298 | 173 | 66498 | 49.843 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.422 | 105 | 511101 | 50.721 | ug/l | | 100 |
| 74) N-amyl acetate | 12.234 | 43 | 117234 | 52.801 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 94989 | 49.050 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 64068m | 26.758 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 130507 | 49.836 | ug/l | | 99 |
| 78) n-propylbenzene | 12.763 | 91 | 636265 | 51.092 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 369010 | 50.529 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 439937 | 51.586 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 34451 | 51.101 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 392567 | 50.283 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.163 | 119 | 375905 | 50.893 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 446723 | 52.143 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 552940 | 50.646 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 473021 | 51.257 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 263700 | 49.727 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 259510 | 48.727 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.787 | 91 | 440220 | 50.705 | ug/l | | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 95003 | 48.022 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 230112 | 49.764 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 14287 | 48.788 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 144289 | 49.762 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 77123 | 49.213 | ug/l | | 96 |
| 95) Naphthalene | 15.328 | 128 | 253577 | 51.487 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 128967 | 50.648 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080023.D
Acq On : 15 Nov 2024 11:24
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

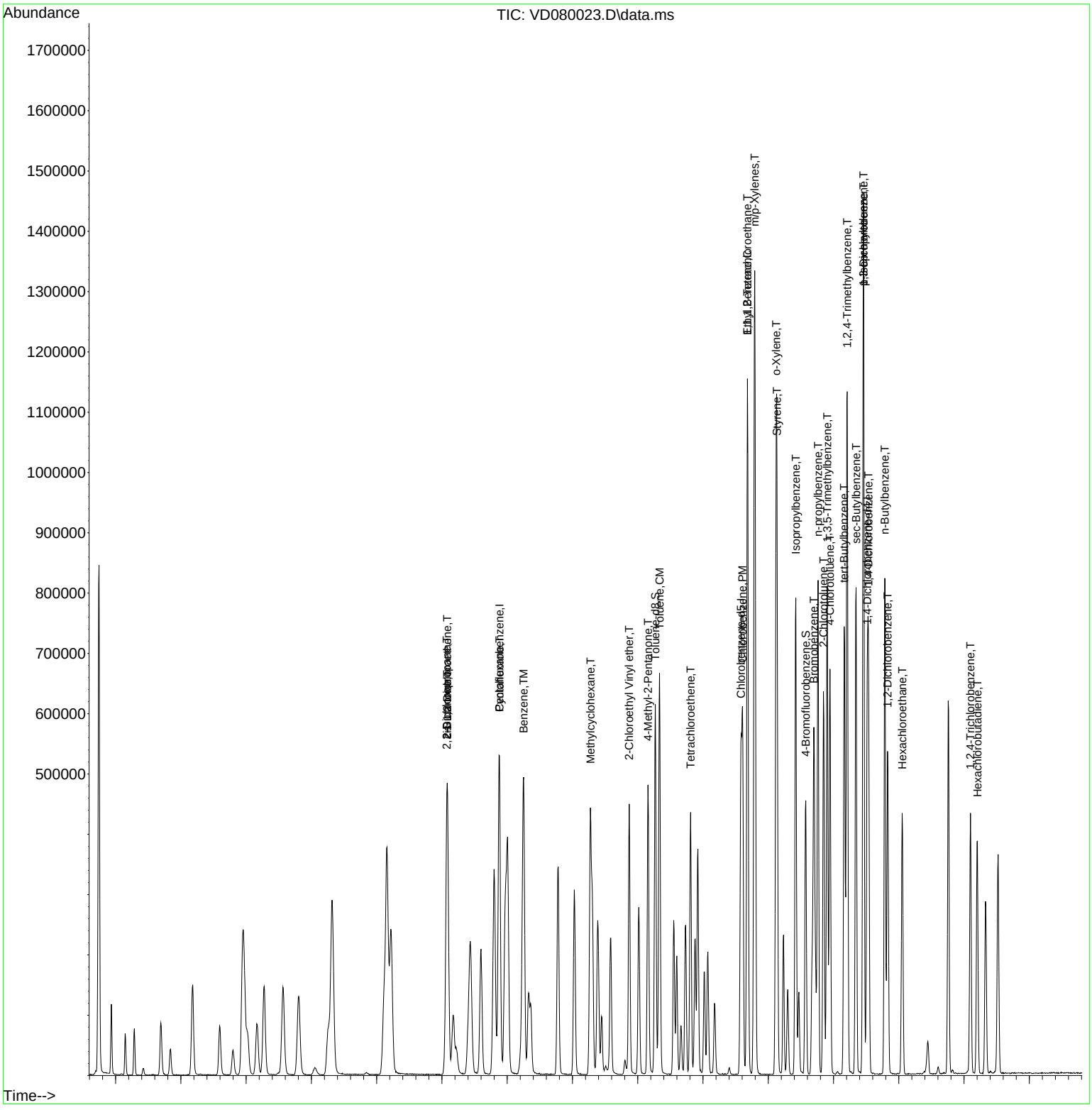
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080023.D
Acq On : 15 Nov 2024 11:24
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 16:10:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080024.D
Acq On : 15 Nov 2024 11:51
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 213987 | 50.000 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 334359 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 305672 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 161470 | 50.000 ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 215523 | 97.823 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 195.640%# | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 219736 | 98.746 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 197.500%# | | |
| 50) Toluene-d8 | 10.269 | 98 | 871600 | 103.923 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 207.840%# | | |
| 62) 4-Bromofluorobenzene | 12.569 | 95 | 292418 | 106.269 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 212.540%# | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 169485 | 98.686 ug/l | 98 |
| 3) Chloromethane | 2.146 | 50 | 120374 | 95.311 ug/l | 96 |
| 4) Vinyl Chloride | 2.287 | 62 | 141364 | 98.044 ug/l | 93 |
| 5) Bromomethane | 2.687 | 94 | 148540 | 108.149 ug/l | 99 |
| 6) Chloroethane | 2.834 | 64 | 107437 | 104.245 ug/l | 97 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 352620 | 99.570 ug/l | 97 |
| 8) Diethyl Ether | 3.593 | 74 | 110272 | 106.666 ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 213116 | 96.333 ug/l | 97 |
| 10) Methyl Iodide | 4.163 | 142 | 313697 | 114.559 ug/l | 96 |
| 11) Tert butyl alcohol | 5.058 | 59 | 55887 | 485.400 ug/l # | 87 |
| 12) 1,1-Dichloroethene | 3.946 | 96 | 222161 | 100.193 ug/l | 94 |
| 13) Acrolein | 3.799 | 56 | 114581 | 520.823 ug/l | 99 |
| 14) Allyl chloride | 4.563 | 41 | 333079 | 105.973 ug/l | 97 |
| 15) Acrylonitrile | 5.257 | 53 | 242417 | 527.834 ug/l | 99 |
| 16) Acetone | 4.022 | 43 | 282176 | 590.285 ug/l | 95 |
| 17) Carbon Disulfide | 4.269 | 76 | 726481 | 101.750 ug/l | 98 |
| 18) Methyl Acetate | 4.563 | 43 | 109084 | 102.891 ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.316 | 73 | 494834 | 109.391 ug/l | 96 |
| 20) Methylene Chloride | 4.799 | 84 | 248753 | 96.944 ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.310 | 96 | 247853 | 101.113 ug/l | 94 |
| 22) Diisopropyl ether | 6.216 | 45 | 664677 | 104.433 ug/l | 98 |
| 23) Vinyl Acetate | 6.152 | 43 | 2000852 | 548.704 ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 416823 | 98.467 ug/l | 98 |
| 25) 2-Butanone | 7.081 | 43 | 331025 | 529.910 ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 350945 | 95.376 ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 288934 | 102.713 ug/l | 97 |
| 28) Bromochloromethane | 7.428 | 49 | 172243 | 91.433 ug/l # | 94 |
| 29) Tetrahydrofuran | 7.446 | 42 | 185474 | 542.033 ug/l | 99 |
| 30) Chloroform | 7.599 | 83 | 430697 | 96.575 ug/l | 99 |
| 31) Cyclohexane | 7.881 | 56 | 347253 | 96.789 ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 369773 | 96.887 ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 307357 | 101.011 ug/l | 99 |
| 37) Ethyl Acetate | 7.163 | 43 | 135547 | 103.638 ug/l | 98 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 322998 | 97.157 ug/l | 96 |
| 39) Methylcyclohexane | 9.275 | 83 | 389740 | 107.583 ug/l | 98 |
| 40) Benzene | 8.251 | 78 | 962021 | 101.430 ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080024.D
Acq On : 15 Nov 2024 11:51
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.399 | 41 | 72210 | 45.650 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 245353 | 99.958 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.357 | 43 | 249535 | 105.250 | ug/l | | 98 |
| 44) Trichloroethene | 9.028 | 130 | 241612 | 98.445 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 228930 | 100.439 | ug/l | | 99 |
| 46) Dibromomethane | 9.393 | 93 | 132059 | 99.612 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.587 | 83 | 329294 | 99.233 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.381 | 41 | 122491 | 108.222 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.387 | 88 | 26852 | 2207.934 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 659252 | 548.072 | ug/l | | 100 |
| 52) Toluene | 10.334 | 92 | 619581 | 105.120 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 310735 | 105.046 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 367453 | 104.923 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 174957 | 99.751 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.598 | 69 | 234226 | 114.843 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 10.875 | 76 | 290227 | 101.719 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 432592 | 560.800 | ug/l | | 97 |
| 59) 2-Hexanone | 10.916 | 43 | 496488 | 561.155 | ug/l | | 96 |
| 60) Dibromochloromethane | 11.075 | 129 | 229588 | 101.696 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 170888 | 103.337 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.810 | 164 | 215063 | 98.797 | ug/l | | 98 |
| 65) Chlorobenzene | 11.604 | 112 | 669342 | 100.383 | ug/l | | 94 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 234719 | 101.126 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.681 | 91 | 1201503 | 107.390 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.792 | 106 | 936727 | 214.234 | ug/l | | 99 |
| 69) o-Xylene | 12.122 | 106 | 440333 | 112.033 | ug/l | | 94 |
| 70) Styrene | 12.134 | 104 | 769949 | 109.754 | ug/l | | 99 |
| 71) Bromoform | 12.298 | 173 | 135759 | 99.202 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.422 | 105 | 1118214 | 107.387 | ug/l | | 100 |
| 74) N-amyl acetate | 12.234 | 43 | 249128 | 108.581 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 197534 | 98.708 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 133250m | 53.854 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 276526 | 102.186 | ug/l | | 97 |
| 78) n-propylbenzene | 12.763 | 91 | 1365890 | 106.140 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 787564 | 104.361 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 949326 | 107.721 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 74312 | 106.669 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 832316 | 103.168 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.163 | 119 | 829100 | 108.627 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 965843 | 109.097 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.345 | 105 | 1221229 | 108.246 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 1047476 | 109.841 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 560219 | 102.233 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 546394 | 99.281 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.786 | 91 | 975494 | 108.731 | ug/l | | 98 |
| 90) Hexachloroethane | 14.051 | 117 | 204284 | 99.928 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 484966 | 101.494 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 30992 | 102.416 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 323341 | 107.913 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 172695 | 106.640 | ug/l | | 99 |
| 95) Naphthalene | 15.328 | 128 | 577937 | 113.557 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 281865 | 107.120 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080024.D
Acq On : 15 Nov 2024 11:51
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

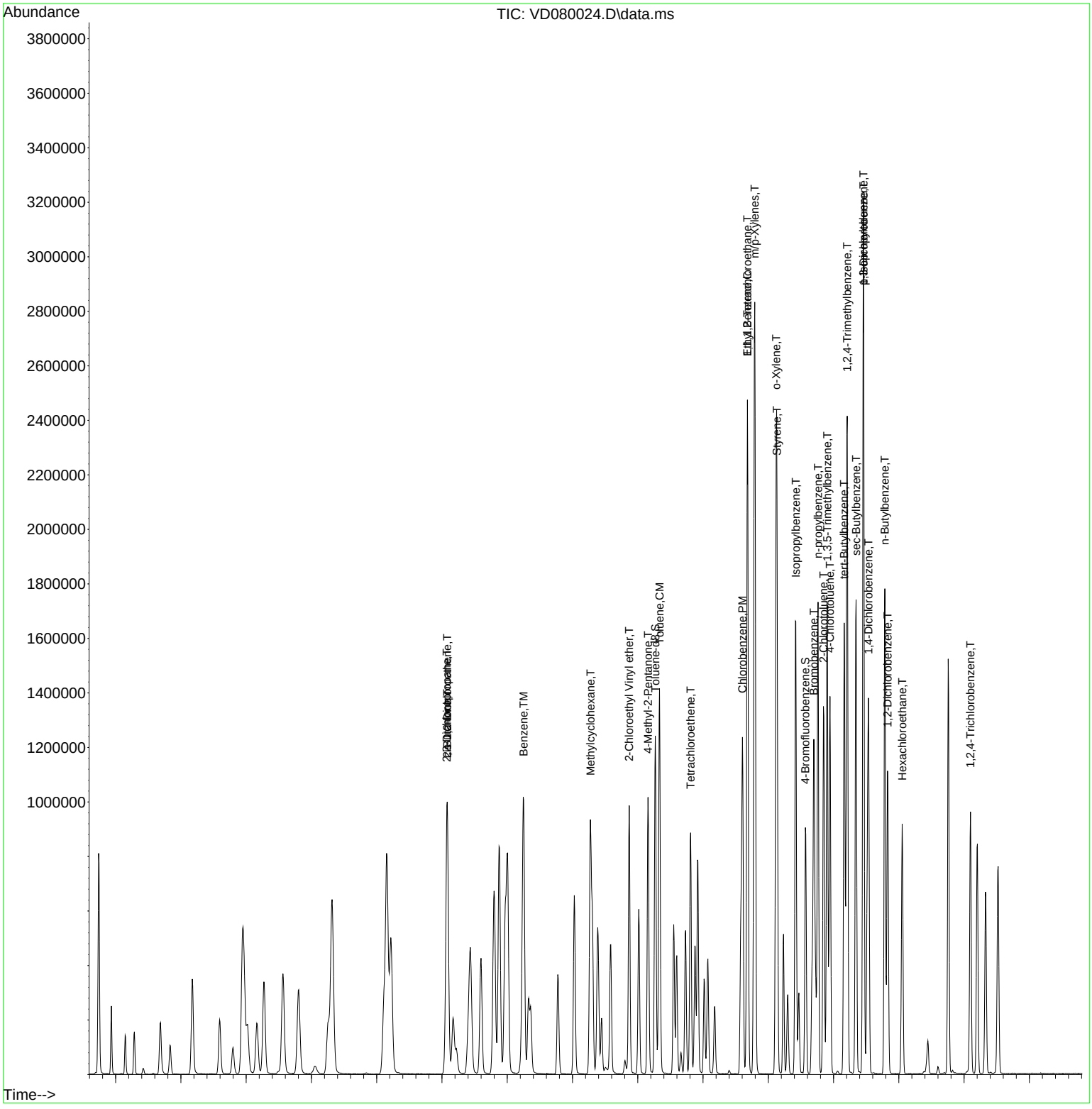
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080024.D
Acq On : 15 Nov 2024 11:51
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 15 16:10:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080025.D
Acq On : 15 Nov 2024 12:18
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 221376 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 344352 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 317754 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 166794 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 347158 | 152.310 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 304.620%# | | | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 365575 | 159.516 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 319.040%# | | | | |
| 50) Toluene-d8 | 10.269 | 98 | 1438917 | 166.586 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 333.180%# | | | | |
| 62) 4-Bromofluorobenzene | 12.569 | 95 | 478859 | 168.974 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 337.940%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 264686 | 148.975 | ug/l | | 97 |
| 3) Chloromethane | 2.146 | 50 | 170375 | 130.398 | ug/l | | 96 |
| 4) Vinyl Chloride | 2.281 | 62 | 192789 | 129.247 | ug/l | | 99 |
| 5) Bromomethane | 2.669 | 94 | 196455 | 146.841 | ug/l | | 99 |
| 6) Chloroethane | 2.828 | 64 | 129394 | 121.359 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 3.169 | 101 | 503283 | 137.370 | ug/l | | 100 |
| 8) Diethyl Ether | 3.593 | 74 | 175609 | 164.197 | ug/l | | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 334103 | 145.982 | ug/l | | 98 |
| 10) Methyl Iodide | 4.163 | 142 | 482887 | 170.459 | ug/l | | 96 |
| 11) Tert butyl alcohol | 5.052 | 59 | 87262 | 732.606 | ug/l | # | 88 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 351408 | 153.193 | ug/l | | 94 |
| 13) Acrolein | 3.793 | 56 | 199631 | 877.127 | ug/l | | 98 |
| 14) Allyl chloride | 4.558 | 41 | 522371 | 160.651 | ug/l | | 96 |
| 15) Acrylonitrile | 5.252 | 53 | 367058 | 772.549 | ug/l | | 99 |
| 16) Acetone | 4.022 | 43 | 413036 | 835.192 | ug/l | | 98 |
| 17) Carbon Disulfide | 4.269 | 76 | 1122269 | 151.938 | ug/l | | 98 |
| 18) Methyl Acetate | 4.563 | 43 | 165292 | 150.705 | ug/l | | 98 |
| 19) Methyl tert-butyl Ether | 5.316 | 73 | 765741 | 163.628 | ug/l | | 96 |
| 20) Methylene Chloride | 4.805 | 84 | 381592 | 143.750 | ug/l | | 98 |
| 21) trans-1,2-Dichloroethene | 5.310 | 96 | 382577 | 150.866 | ug/l | | 97 |
| 22) Diisopropyl ether | 6.216 | 45 | 1043460 | 158.474 | ug/l | | 97 |
| 23) Vinyl Acetate | 6.152 | 43 | 3060849 | 811.376 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 6.110 | 63 | 645380 | 147.371 | ug/l | | 99 |
| 25) 2-Butanone | 7.081 | 43 | 503300 | 778.798 | ug/l | | 98 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 553285 | 145.347 | ug/l | | 98 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 450627 | 154.847 | ug/l | | 98 |
| 28) Bromochloromethane | 7.422 | 49 | 275355 | 141.290 | ug/l | # | 92 |
| 29) Tetrahydrofuran | 7.446 | 42 | 281886 | 796.293 | ug/l | | 98 |
| 30) Chloroform | 7.593 | 83 | 674259 | 146.143 | ug/l | | 100 |
| 31) Cyclohexane | 7.875 | 56 | 549994 | 148.182 | ug/l | | 99 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 575523 | 145.764 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 483352 | 154.240 | ug/l | | 99 |
| 37) Ethyl Acetate | 7.163 | 43 | 204212 | 151.608 | ug/l | | 98 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 506324 | 147.881 | ug/l | | 96 |
| 39) Methylcyclohexane | 9.275 | 83 | 624424 | 167.362 | ug/l | | 98 |
| 40) Benzene | 8.251 | 78 | 1511558 | 154.746 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080025.D
Acq On : 15 Nov 2024 12:18
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 16:10:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.399 | 41 | 116055 | 71.239 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.322 | 62 | 371202 | 146.841 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.357 | 43 | 388891 | 159.269 | ug/l | | 100 |
| 44) Trichloroethene | 9.028 | 130 | 383998 | 151.920 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 354943 | 151.206 | ug/l | | 98 |
| 46) Dibromomethane | 9.393 | 93 | 200861 | 147.112 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.581 | 83 | 513563 | 150.272 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.381 | 41 | 188276 | 161.517 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.387 | 88 | 43230 | 3451.477 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 996425 | 804.342 | ug/l | | 99 |
| 52) Toluene | 10.334 | 92 | 976028 | 160.791 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 486056 | 159.546 | ug/l | | 95 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 572950 | 158.854 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 271248 | 150.163 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.598 | 69 | 364866 | 173.706 | ug/l | | 94 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 454045 | 154.516 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 712742 | 897.165 | ug/l | | 95 |
| 59) 2-Hexanone | 10.922 | 43 | 746557 | 819.309 | ug/l | | 95 |
| 60) Dibromochloromethane | 11.069 | 129 | 360409 | 155.011 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 263889 | 154.944 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.810 | 164 | 338630 | 149.648 | ug/l | | 97 |
| 65) Chlorobenzene | 11.604 | 112 | 1063606 | 153.447 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 370700 | 153.640 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.681 | 91 | 1908343 | 164.082 | ug/l | | 95 |
| 68) m/p-Xylenes | 11.792 | 106 | 1487407 | 327.243 | ug/l | | 97 |
| 69) o-Xylene | 12.122 | 106 | 692154 | 169.407 | ug/l | | 95 |
| 70) Styrene | 12.134 | 104 | 1211907 | 166.184 | ug/l | | 99 |
| 71) Bromoform | 12.298 | 173 | 210245 | 147.789 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.422 | 105 | 1751890 | 162.871 | ug/l | | 100 |
| 74) N-amyl acetate | 12.234 | 43 | 377305 | 159.197 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 298492 | 144.396 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 194071m | 75.932 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 438109 | 156.729 | ug/l | | 97 |
| 78) n-propylbenzene | 12.763 | 91 | 2141654 | 161.110 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 1230210 | 157.812 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 1483510 | 162.962 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 112664 | 156.558 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 1301823 | 156.214 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.163 | 119 | 1322689 | 167.764 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 1519971 | 166.208 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.345 | 105 | 1905911 | 163.541 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 1661152 | 168.632 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 884500 | 156.258 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 843528 | 148.379 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.786 | 91 | 1532671 | 165.382 | ug/l | | 97 |
| 90) Hexachloroethane | 14.051 | 117 | 320022 | 151.545 | ug/l | | 92 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 747568 | 151.457 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 46462 | 148.637 | ug/l | | 92 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 507254 | 163.889 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 266007 | 159.018 | ug/l | | 99 |
| 95) Naphthalene | 15.328 | 128 | 921526 | 175.288 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 446072 | 164.113 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080025.D
Acq On : 15 Nov 2024 12:18
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

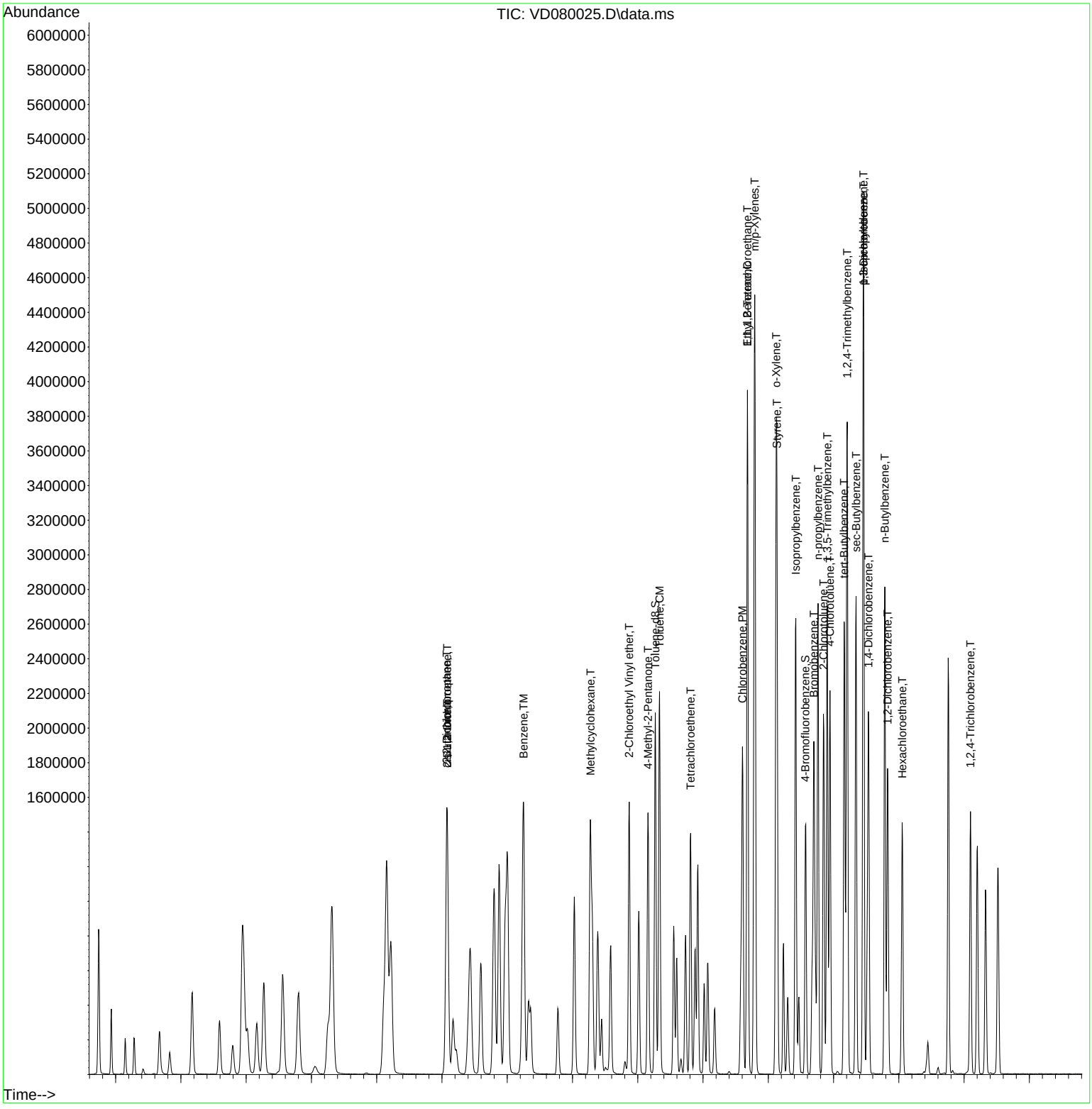
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080025.D
Acq On : 15 Nov 2024 12:18
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 16:10:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 215478 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 329489 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.580 | 117 | 296784 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 153938 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 113355 | 51.094 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.180% | | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 114809 | 52.356 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.720% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 453807 | 54.908 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 109.820% | | | |
| 62) 4-Bromofluorobenzene | 12.574 | 95 | 150030 | 55.329 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 110.660% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 87603 | 50.656 | ug/l | 100 |
| 3) Chloromethane | 2.146 | 50 | 55831 | 43.901 | ug/l | 94 |
| 4) Vinyl Chloride | 2.287 | 62 | 65423 | 45.061 | ug/l | 98 |
| 5) Bromomethane | 2.693 | 94 | 62774 | 40.938 | ug/l | 97 |
| 6) Chloroethane | 2.834 | 64 | 46643 | 44.944 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 181138 | 50.795 | ug/l | 93 |
| 8) Diethyl Ether | 3.593 | 74 | 52244 | 50.186 | ug/l | 90 |
| 9) 1,1,2-Trichlorotrifluo... | 3.963 | 101 | 119769 | 53.764 | ug/l | 97 |
| 10) Methyl Iodide | 4.163 | 142 | 147950 | 53.656 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.051 | 59 | 28951 | 250.759 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 120448 | 53.945 | ug/l | 97 |
| 13) Acrolein | 3.804 | 56 | 55642 | 251.168 | ug/l | 95 |
| 14) Allyl chloride | 4.557 | 41 | 169922 | 53.689 | ug/l | 97 |
| 15) Acrylonitrile | 5.251 | 53 | 118713 | 256.695 | ug/l | 100 |
| 16) Acetone | 4.022 | 43 | 138091 | 286.874 | ug/l | 94 |
| 17) Carbon Disulfide | 4.269 | 76 | 393902 | 54.788 | ug/l | 97 |
| 18) Methyl Acetate | 4.563 | 43 | 54694 | 51.232 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 241030 | 52.915 | ug/l | 99 |
| 20) Methylene Chloride | 4.798 | 84 | 130898 | 50.705 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.310 | 96 | 128235 | 51.952 | ug/l | 94 |
| 22) Diisopropyl ether | 6.216 | 45 | 346151 | 54.010 | ug/l | 99 |
| 23) Vinyl Acetate | 6.157 | 43 | 1000805 | 272.557 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.110 | 63 | 215239 | 50.495 | ug/l | 97 |
| 25) 2-Butanone | 7.081 | 43 | 159263 | 253.186 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 189500 | 51.144 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 145314 | 51.300 | ug/l | 98 |
| 28) Bromochloromethane | 7.422 | 49 | 93627 | 49.357 | ug/l # | 94 |
| 29) Tetrahydrofuran | 7.445 | 42 | 91293 | 264.950 | ug/l | 99 |
| 30) Chloroform | 7.598 | 83 | 228856 | 50.961 | ug/l | 99 |
| 31) Cyclohexane | 7.881 | 56 | 187203 | 51.818 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.792 | 97 | 198982 | 51.776 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 166277 | 55.453 | ug/l | 98 |
| 37) Ethyl Acetate | 7.169 | 43 | 66430 | 51.543 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.986 | 117 | 175856 | 53.679 | ug/l | 98 |
| 39) Methylcyclohexane | 9.275 | 83 | 206276 | 57.781 | ug/l | 97 |
| 40) Benzene | 8.251 | 78 | 496606 | 53.133 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.398 | 41 | 37264 | 53.575 ug/l | 96 |
| 42) 1,2-Dichloroethane | 8.322 | 62 | 125602 | 51.927 ug/l | 98 |
| 43) Isopropyl Acetate | 8.357 | 43 | 125392 | 53.670 ug/l | 99 |
| 44) Trichloroethene | 9.028 | 130 | 125426 | 51.860 ug/l | 100 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 120579 | 53.684 ug/l | 99 |
| 46) Dibromomethane | 9.392 | 93 | 68791 | 52.656 ug/l | 96 |
| 47) Bromodichloromethane | 9.586 | 83 | 171349 | 52.399 ug/l | 99 |
| 48) Methyl methacrylate | 9.381 | 41 | 62738 | 56.249 ug/l | 95 |
| 49) 1,4-Dioxane | 9.386 | 88 | 14046 | 1172.018 ug/l | 95 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 332433 | 280.454 ug/l | 100 |
| 52) Toluene | 10.333 | 92 | 321271 | 55.314 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 154500 | 53.002 ug/l | 96 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 184499 | 53.461 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.733 | 97 | 89211 | 51.615 ug/l | 97 |
| 56) Ethyl methacrylate | 10.598 | 69 | 113207 | 56.327 ug/l | 96 |
| 57) 1,3-Dichloropropane | 10.880 | 76 | 147929 | 52.612 ug/l | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 236427 | 311.027 ug/l | 98 |
| 59) 2-Hexanone | 10.922 | 43 | 245472 | 281.545 ug/l | 95 |
| 60) Dibromochloromethane | 11.075 | 129 | 117958 | 53.022 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.180 | 107 | 86507 | 53.084 ug/l | 99 |
| 64) Tetrachloroethene | 10.810 | 164 | 114603 | 54.224 ug/l | 96 |
| 65) Chlorobenzene | 11.604 | 112 | 343629 | 53.078 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.680 | 131 | 118466 | 52.568 ug/l | 98 |
| 67) Ethyl Benzene | 11.680 | 91 | 603986 | 55.601 ug/l | 98 |
| 68) m/p-Xylenes | 11.792 | 106 | 479092 | 112.852 ug/l | 99 |
| 69) o-Xylene | 12.122 | 106 | 216945 | 56.850 ug/l | 95 |
| 70) Styrene | 12.133 | 104 | 384068 | 56.387 ug/l | 99 |
| 71) Bromoform | 12.298 | 173 | 69459 | 52.275 ug/l # | 99 |
| 73) Isopropylbenzene | 12.422 | 105 | 569454 | 57.363 ug/l | 100 |
| 74) N-amyl acetate | 12.233 | 43 | 121269 | 55.441 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.674 | 83 | 100457 | 52.655 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 69028m | 50.782 ug/l | |
| 77) Bromobenzene | 12.698 | 156 | 140663 | 54.523 ug/l | 98 |
| 78) n-propylbenzene | 12.763 | 91 | 714370 | 58.228 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.851 | 91 | 403695 | 56.111 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 483027 | 57.491 ug/l | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 37189 | 55.994 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 424664 | 55.214 ug/l | 98 |
| 83) tert-Butylbenzene | 13.169 | 119 | 420400 | 57.775 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 485565 | 57.531 ug/l | 100 |
| 85) sec-Butylbenzene | 13.345 | 105 | 633219 | 58.873 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.463 | 119 | 540021 | 59.399 ug/l | 98 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 281797 | 53.941 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.539 | 146 | 275706 | 52.548 ug/l | 99 |
| 89) n-Butylbenzene | 13.786 | 91 | 499923 | 58.449 ug/l | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 106998 | 54.900 ug/l | 95 |
| 91) 1,2-Dichlorobenzene | 13.833 | 146 | 242366 | 53.204 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 15553 | 53.911 ug/l | 94 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 154858 | 54.212 ug/l | 100 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 89007 | 57.652 ug/l | 99 |
| 95) Naphthalene | 15.333 | 128 | 265493 | 54.718 ug/l | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.521 | 180 | 135495 | 54.013 ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

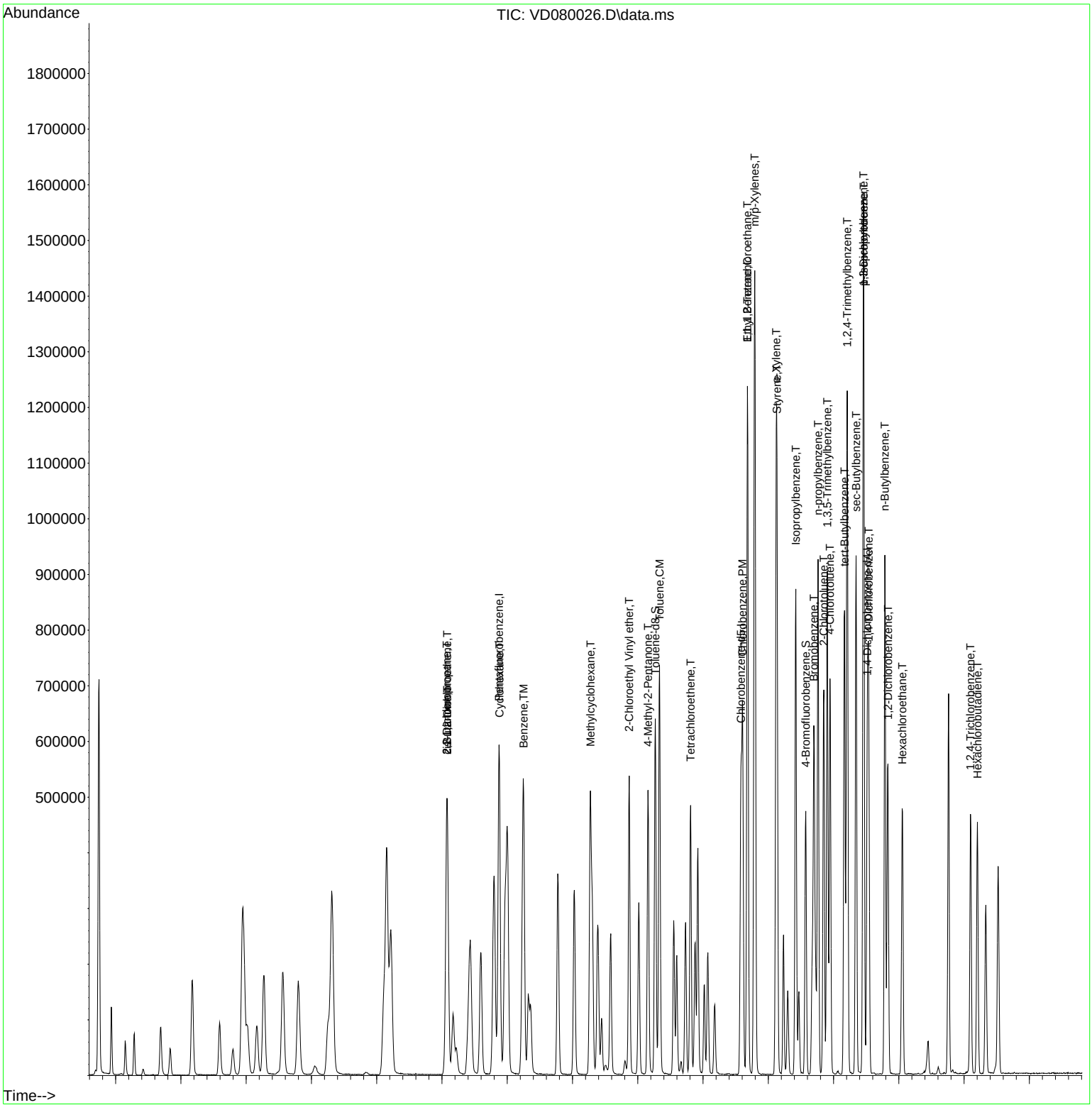
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.401 | 0.407 | -1.5 | 108 | 0.00 |
| 3 | P | Chloromethane | 0.295 | 0.259 | 12.2 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 0.337 | 0.304 | 9.8# | 100 | 0.00 |
| 5 | T | Bromomethane | 0.374 | 0.291 | 22.2 | 101 | 0.00 |
| 6 | T | Chloroethane | 0.241 | 0.216 | 10.4 | 110 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.827 | 0.841 | -1.7 | 116 | 0.00 |
| 8 | T | Diethyl Ether | 0.242 | 0.242 | 0.0 | 113 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.517 | 0.556 | -7.5 | 122 | 0.00 |
| 10 | T | Methyl Iodide | 0.640 | 0.687 | -7.3 | 104 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.027 | 0.027 | 0.0 | 124 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.518 | 0.559 | -7.9# | 120 | 0.00 |
| 13 | T | Acrolein | 0.051 | 0.052 | -2.0 | 113 | 0.01 |
| 14 | T | Allyl chloride | 0.734 | 0.789 | -7.5 | 130 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.110 | -2.8 | 116 | 0.00 |
| 16 | T | Acetone | 0.112 | 0.128 | -14.3 | 128 | 0.00 |
| 17 | T | Carbon Disulfide | 1.668 | 1.828 | -9.6 | 124 | 0.00 |
| 18 | T | Methyl Acetate | 0.248 | 0.254 | -2.4 | 125 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.057 | 1.119 | -5.9 | 108 | 0.00 |
| 20 | T | Methylene Chloride | 0.599 | 0.607 | -1.3 | 115 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.573 | 0.595 | -3.8 | 109 | 0.00 |
| 22 | T | Diisopropyl ether | 1.487 | 1.606 | -8.0 | 109 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.929 | -9.0 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.989 | 0.999 | -1.0 | 108 | 0.00 |
| 25 | T | 2-Butanone | 0.146 | 0.148 | -1.4 | 101 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.860 | 0.879 | -2.2 | 111 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.657 | 0.674 | -2.6 | 109 | 0.00 |
| 28 | T | Bromochloromethane | 0.440 | 0.435 | 1.1 | 113 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.080 | 0.085 | -6.3 | 105 | 0.00 |
| 30 | C | Chloroform | 1.042 | 1.062 | -1.9# | 110 | 0.00 |
| 31 | T | Cyclohexane | 0.838 | 0.869 | -3.7 | 115 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.892 | 0.923 | -3.5 | 112 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.515 | 0.526 | -2.1 | 106 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.333 | 0.348 | -4.5 | 106 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.455 | 0.505 | -11.0 | 114 | 0.00 |
| 37 | T | Ethyl Acetate | 0.196 | 0.202 | -3.1 | 107 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.497 | 0.534 | -7.4 | 112 | 0.00 |
| 39 | T | Methylcyclohexane | 0.542 | 0.626 | -15.5 | 116 | 0.00 |
| 40 | TM | Benzene | 1.418 | 1.507 | -6.3 | 108 | 0.00 |
| 41 | T | Methacrylonitrile | 0.106 | 0.113 | -6.6 | 112 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.367 | 0.381 | -3.8 | 107 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.355 | 0.381 | -7.3 | 107 | 0.00 |
| 44 | TM | Trichloroethene | 0.367 | 0.381 | -3.8 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.341 | 0.366 | -7.3# | 107 | 0.00 |
| 46 | T | Dibromomethane | 0.198 | 0.209 | -5.6 | 110 | 0.00 |
| 47 | T | Bromodichloromethane | 0.496 | 0.520 | -4.8 | 107 | 0.00 |
| 48 | T | Methyl methacrylate | 0.169 | 0.190 | -12.4 | 111 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 105 | 0.00 |
| 50 | S | Toluene-d8 | 1.254 | 1.377 | -9.8 | 107 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.180 | 0.202 | -12.2 | 108 | 0.00 |
| 52 | CM | Toluene | 0.881 | 0.975 | -10.7# | 110 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.442 | 0.469 | -6.1 | 105 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.524 | 0.560 | -6.9 | 106 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.262 | 0.271 | -3.4 | 104 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.305 | 0.344 | -12.8 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.427 | 0.449 | -5.2 | 106 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.115 | 0.144 | -25.2# | 120 | 0.00 |
| 59 | T | 2-Hexanone | 0.132 | 0.149 | -12.9 | 105 | 0.00 |
| 60 | T | Dibromochloromethane | 0.338 | 0.358 | -5.9 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.247 | 0.263 | -6.5 | 107 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.411 | 0.455 | -10.7 | 108 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 0.356 | 0.386 | -8.4 | 113 | 0.00 |
| 65 | PM | Chlorobenzene | 1.091 | 1.158 | -6.1 | 108 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.380 | 0.399 | -5.0 | 105 | 0.00 |
| 67 | C | Ethyl Benzene | 1.830 | 2.035 | -11.2# | 109 | 0.00 |
| 68 | T | m/p-Xylenes | 0.715 | 0.807 | -12.9 | 111 | 0.00 |
| 69 | T | o-Xylene | 0.643 | 0.731 | -13.7 | 109 | 0.00 |
| 70 | T | Styrene | 1.148 | 1.294 | -12.7 | 106 | 0.00 |
| 71 | P | Bromoform | 0.224 | 0.234 | -4.5 | 104 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 3.224 | 3.699 | -14.7 | 111 | 0.00 |
| 74 | T | N-amyl acetate | 0.710 | 0.788 | -11.0 | 103 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.620 | 0.653 | -5.3 | 106 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.442 | 0.448 | -1.4 | 108 | 0.00 |
| 77 | T | Bromobenzene | 0.838 | 0.914 | -9.1 | 108 | 0.00 |
| 78 | T | n-propylbenzene | 3.985 | 4.641 | -16.5 | 112 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.337 | 2.622 | -12.2 | 109 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.729 | 3.138 | -15.0 | 110 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.216 | 0.242 | -12.0 | 108 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.498 | 2.759 | -10.4 | 108 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.363 | 2.731 | -15.6 | 112 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.741 | 3.154 | -15.1 | 109 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.494 | 4.113 | -17.7 | 115 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.953 | 3.508 | -18.8 | 114 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.697 | 1.831 | -7.9 | 107 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.704 | 1.791 | -5.1 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 2.778 | 3.248 | -16.9 | 114 | 0.00 |
| 90 | T | Hexachloroethane | 0.633 | 0.695 | -9.8 | 113 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.480 | 1.574 | -6.4 | 105 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.101 | -7.4 | 109 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.928 | 1.006 | -8.4 | 107 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.501 | 0.578 | -15.4 | 115 | 0.00 |
| 95 | T | Naphthalene | 1.576 | 1.725 | -9.5 | 105 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.815 | 0.880 | -8.0 | 105 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 106 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 50.656 | -1.3 | 108 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.901 | 12.2 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.061 | 9.9# | 100 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 40.938 | 18.1 | 101 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 44.944 | 10.1 | 110 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.795 | -1.6 | 116 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.186 | -0.4 | 113 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 53.764 | -7.5 | 122 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 53.656 | -7.3 | 104 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 250.759 | -0.3 | 124 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.945 | -7.9# | 120 | 0.00 |
| 13 | T | Acrolein | 250.000 | 251.168 | -0.5 | 113 | 0.01 |
| 14 | T | Allyl chloride | 50.000 | 53.689 | -7.4 | 130 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 256.695 | -2.7 | 116 | 0.00 |
| 16 | T | Acetone | 250.000 | 286.874 | -14.7 | 128 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 54.788 | -9.6 | 124 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 51.232 | -2.5 | 125 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.915 | -5.8 | 108 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.705 | -1.4 | 115 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.952 | -3.9 | 109 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 54.010 | -8.0 | 109 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 272.557 | -9.0 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.495 | -1.0 | 108 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 253.186 | -1.3 | 101 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.144 | -2.3 | 111 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.300 | -2.6 | 109 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.357 | 1.3 | 113 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 264.950 | -6.0 | 105 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.961 | -1.9# | 110 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 51.818 | -3.6 | 115 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.776 | -3.6 | 112 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.094 | -2.2 | 106 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 52.356 | -4.7 | 106 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 55.453 | -10.9 | 114 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 51.543 | -3.1 | 107 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 53.679 | -7.4 | 112 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 57.781 | -15.6 | 116 | 0.00 |
| 40 | TM | Benzene | 50.000 | 53.133 | -6.3 | 108 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 53.575 | -7.2 | 112 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.927 | -3.9 | 107 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.670 | -7.3 | 107 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.860 | -3.7 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 53.684 | -7.4# | 107 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 52.656 | -5.3 | 110 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.399 | -4.8 | 107 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 56.249 | -12.5 | 111 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1172.018 | -17.2 | 105 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 54.908 | -9.8 | 107 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 280.454 | -12.2 | 108 | 0.00 |
| 52 | CM | Toluene | 50.000 | 55.314 | -10.6# | 110 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.002 | -6.0 | 105 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.461 | -6.9 | 106 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.615 | -3.2 | 104 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 56.327 | -12.7 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.612 | -5.2 | 106 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 311.027 | -24.4 | 120 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 281.545 | -12.6 | 105 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 53.022 | -6.0 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.084 | -6.2 | 107 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 55.329 | -10.7 | 108 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 54.224 | -8.4 | 113 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 53.078 | -6.2 | 108 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.568 | -5.1 | 105 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 55.601 | -11.2# | 109 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 112.852 | -12.9 | 111 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 56.850 | -13.7 | 109 | 0.00 |
| 70 | T | Styrene | 50.000 | 56.387 | -12.8 | 106 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.275 | -4.5 | 104 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 57.363 | -14.7 | 111 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 55.441 | -10.9 | 103 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 52.655 | -5.3 | 106 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 50.782 | -1.6 | 108 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 54.523 | -9.0 | 108 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 58.228 | -16.5 | 112 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 56.111 | -12.2 | 109 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 57.491 | -15.0 | 110 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 55.994 | -12.0 | 108 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 55.214 | -10.4 | 108 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 57.775 | -15.5 | 112 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 57.531 | -15.1 | 109 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 58.873 | -17.7 | 115 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 59.399 | -18.8 | 114 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 53.941 | -7.9 | 107 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 52.548 | -5.1 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 58.449 | -16.9 | 114 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 54.900 | -9.8 | 113 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 53.204 | -6.4 | 105 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.911 | -7.8 | 109 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 54.212 | -8.4 | 107 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 57.652 | -15.3 | 115 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 54.718 | -9.4 | 105 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
ICVVD111524

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 54.013 | -8.0 | 105 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: MSVOA_Y Calibration Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Calibration Time(s): 15:49 17:42

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY020338.D RRF010 = VY020339.D RRF020 = VY020340.D
RRF050 = VY020341.D RRF100 = VY020342.D RRF150 = VY020343.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.710 | 0.664 | 0.643 | 0.687 | 0.647 | 0.653 | 0.667 | 3.9 |
| 1,1,1-Trichloroethane | 1.068 | 1.042 | 0.941 | 0.997 | 0.940 | 0.982 | 0.995 | 5.3 |
| Benzene | 1.632 | 1.376 | 1.440 | 1.348 | 1.378 | 1.435 | 1.435 | 7.2 |
| Trichloroethene | 0.388 | 0.331 | 0.343 | 0.320 | 0.318 | 0.339 | 0.340 | 7.5 |
| Toluene | 0.970 | 0.836 | 0.890 | 0.850 | 0.829 | 0.889 | 0.877 | 6 |
| Ethyl Benzene | 2.319 | 1.973 | 2.002 | 2.051 | 1.932 | 2.063 | 2.057 | 6.7 |
| m/p-Xylenes | 0.829 | 0.725 | 0.742 | 0.708 | 0.696 | 0.745 | 0.741 | 6.4 |
| o-Xylene | 0.770 | 0.694 | 0.711 | 0.668 | 0.666 | 0.706 | 0.703 | 5.4 |
| Isopropylbenzene | 4.851 | 4.028 | 4.070 | 4.314 | 3.899 | 4.251 | 4.236 | 8 |
| 1,2-Dichloroethane-d4 | 0.609 | 0.523 | 0.545 | 0.636 | 0.563 | 0.571 | 0.574 | 7.3 |
| Dibromofluoromethane | 0.346 | 0.347 | 0.307 | 0.323 | 0.288 | 0.312 | 0.321 | 7.2 |
| Toluene-d8 | 1.397 | 1.186 | 1.208 | 1.398 | 1.130 | 1.259 | 1.263 | 8.9 |
| 4-Bromofluorobenzene | 0.459 | 0.381 | 0.384 | 0.430 | 0.369 | 0.413 | 0.406 | 8.5 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y111924S.M
Title : SW846 8260
Last Update : Wed Nov 20 04:38:24 2024
Response Via : Initial Calibration

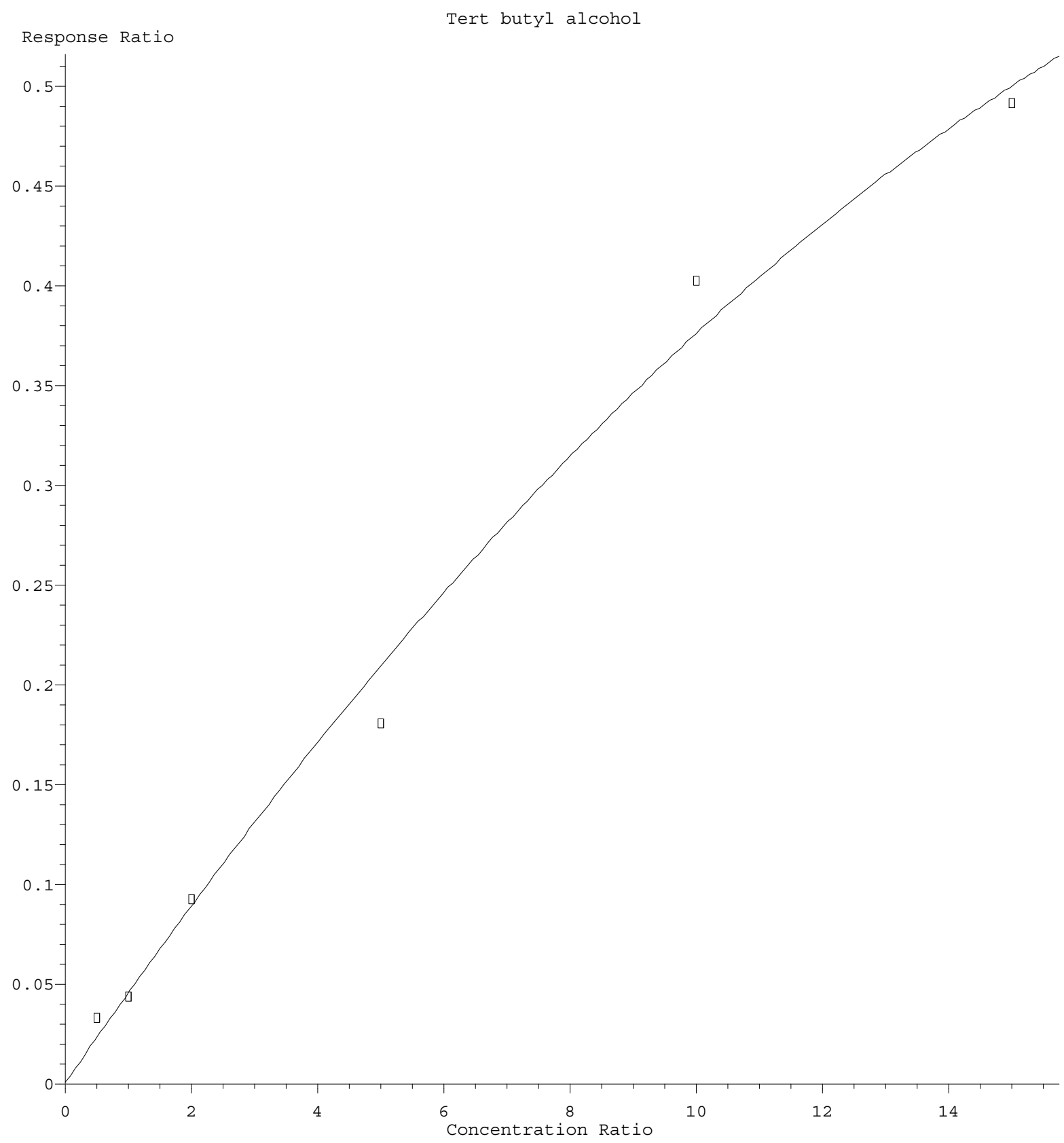
Calibration Files
5 =VY020338.D 10 =VY020339.D 20 =VY020340.D 50 =VY020341.D 100 =VY020342.D 150 =VY020343.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.573 | 0.448 | 0.467 | 0.454 | 0.465 | 0.506 | 0.485 | 9.77 |
| 3) | P | Chloromethane | 0.989 | 0.788 | 0.765 | 0.681 | 0.589 | 0.599 | 0.735 | 20.27 |
| 4) | C | Vinyl Chloride | 0.816 | 0.722 | 0.664 | 0.622 | 0.572 | 0.599 | 0.666 | 13.59# |
| 5) | T | Bromomethane | 0.415 | 0.391 | 0.293 | 0.314 | 0.280 | 0.302 | 0.333 | 16.91 |
| 6) | T | Chloroethane | 0.531 | 0.376 | 0.362 | 0.370 | 0.334 | 0.357 | 0.388 | 18.34 |
| 7) | T | Trichlorofluor... | 1.130 | 0.863 | 0.896 | 0.931 | 0.821 | 0.910 | 0.925 | 11.61 |
| 8) | T | Diethyl Ether | 0.319 | 0.262 | 0.294 | 0.306 | 0.286 | 0.285 | 0.292 | 6.73 |
| 9) | T | 1,1,2-Trichlor... | 0.666 | 0.508 | 0.536 | 0.592 | 0.479 | 0.525 | 0.551 | 12.27 |
| 10) | T | Methyl Iodide | 0.846 | 0.657 | 0.727 | 0.826 | 0.670 | 0.703 | 0.738 | 10.80 |
| 11) | T | Tert butyl alc... | 0.066 | 0.044 | 0.046 | 0.036 | 0.040 | 0.033 | 0.044 | 26.83 |
| 12) | CM | 1,1-Dichloroet... | 0.647 | 0.492 | 0.536 | 0.586 | 0.488 | 0.524 | 0.545 | 11.22# |
| 13) | T | Acrolein | 0.038 | 0.031 | 0.035 | 0.036 | 0.036 | 0.037 | 0.036 | 6.69 |
| 14) | T | Allyl chloride | 1.289 | 0.978 | 1.079 | 0.946 | 0.999 | 1.039 | 1.055 | 11.72 |
| 15) | T | Acrylonitrile | 0.143 | 0.116 | 0.139 | 0.124 | 0.133 | 0.119 | 0.129 | 8.54 |
| 16) | T | Acetone | 0.160 | 0.110 | 0.132 | 0.160 | 0.141 | 0.123 | 0.138 | 14.66 |
| 17) | T | Carbon Disulfide | 2.169 | 1.635 | 1.750 | 2.073 | 1.647 | 1.753 | 1.838 | 12.35 |
| 18) | T | Methyl Acetate | 0.388 | 0.283 | 0.339 | 0.302 | 0.327 | 0.288 | 0.321 | 12.22 |
| 19) | T | Methyl tert-bu... | 1.574 | 1.297 | 1.482 | 1.399 | 1.404 | 1.346 | 1.417 | 6.97 |
| 20) | T | Methylene Chlo... | 0.693 | 0.546 | 0.595 | 0.571 | 0.543 | 0.552 | 0.583 | 9.77 |
| 21) | T | trans-1,2-Dich... | 0.721 | 0.563 | 0.627 | 0.601 | 0.552 | 0.571 | 0.606 | 10.41 |
| 22) | T | Diisopropyl ether | 2.561 | 2.032 | 1.887 | 2.014 | 2.022 | 1.955 | 2.079 | 11.67 |
| 23) | T | Vinyl Acetate | 1.344 | 1.107 | 1.066 | 1.147 | 1.203 | 1.101 | 1.162 | 8.67 |
| 24) | P | 1,1-Dichloroet... | 1.461 | 1.141 | 1.083 | 1.137 | 1.101 | 1.117 | 1.173 | 12.15 |
| 25) | T | 2-Butanone | 0.179 | 0.176 | 0.168 | 0.180 | 0.197 | 0.165 | 0.177 | 6.49 |
| 26) | T | 2,2-Dichloropr... | 1.105 | 0.981 | 0.898 | 0.958 | 0.919 | 0.958 | 0.970 | 7.51 |
| 27) | T | cis-1,2-Dichlo... | 0.710 | 0.664 | 0.643 | 0.687 | 0.647 | 0.653 | 0.667 | 3.92 |
| 28) | T | Bromochloromet... | 0.534 | 0.553 | 0.441 | 0.509 | 0.450 | 0.476 | 0.494 | 9.25 |
| 29) | T | Tetrahydrofuran | 0.099 | 0.110 | 0.100 | 0.107 | 0.120 | 0.100 | 0.106 | 7.54 |
| 30) | C | Chloroform | 1.198 | 1.161 | 1.069 | 1.236 | 1.064 | 1.072 | 1.133 | 6.64# |
| 31) | T | Cyclohexane | 1.318 | 1.107 | 1.004 | 1.035 | 0.969 | 0.991 | 1.071 | 12.17 |
| 32) | T | 1,1,1-Trichlor... | 1.068 | 1.042 | 0.941 | 0.997 | 0.940 | 0.982 | 0.995 | 5.27 |
| 33) | S | 1,2-Dichloroet... | 0.609 | 0.523 | 0.545 | 0.636 | 0.563 | 0.571 | 0.574 | 7.26 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.346 | 0.347 | 0.307 | 0.323 | 0.288 | 0.312 | 0.321 | 7.16 |
| 36) | T | 1,1-Dichloropr... | 0.583 | 0.478 | 0.485 | 0.454 | 0.453 | 0.486 | 0.490 | 9.77 |
| 37) | T | Ethyl Acetate | 0.209 | 0.244 | 0.224 | 0.212 | 0.244 | 0.213 | 0.224 | 7.19 |
| 38) | T | Carbon Tetrach... | 0.575 | 0.500 | 0.500 | 0.478 | 0.483 | 0.533 | 0.511 | 7.16 |
| 39) | T | Methylcyclohexane | 0.695 | 0.587 | 0.612 | 0.583 | 0.570 | 0.630 | 0.613 | 7.47 |
| 40) | TM | Benzene | 1.632 | 1.376 | 1.440 | 1.348 | 1.378 | 1.435 | 1.435 | 7.18 |
| 41) | T | Methacrylonitrile | 0.137 | 0.131 | 0.119 | 0.118 | 0.136 | 0.126 | 0.128 | 6.61 |
| 42) | TM | 1,2-Dichloroet... | 0.416 | 0.372 | 0.398 | 0.364 | 0.386 | 0.389 | 0.387 | 4.78 |
| 43) | T | Isopropyl Acetate | 0.428 | 0.389 | 0.442 | 0.423 | 0.492 | 0.442 | 0.436 | 7.70 |
| 44) | TM | Trichloroethene | 0.388 | 0.331 | 0.343 | 0.320 | 0.318 | 0.339 | 0.340 | 7.54 |
| 45) | C | 1,2-Dichloropr... | 0.374 | 0.331 | 0.348 | 0.319 | 0.334 | 0.347 | 0.342 | 5.52# |
| 46) | T | Dibromomethane | 0.185 | 0.173 | 0.177 | 0.172 | 0.175 | 0.171 | 0.175 | 3.01 |
| 47) | T | Bromodichlorom... | 0.525 | 0.458 | 0.479 | 0.492 | 0.463 | 0.490 | 0.484 | 4.96 |
| 48) | T | Methyl methacr... | 0.208 | 0.184 | 0.206 | 0.201 | 0.234 | 0.219 | 0.209 | 8.07 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 5.32 |
| 50) | S | Toluene-d8 | 1.397 | 1.186 | 1.208 | 1.398 | 1.130 | 1.259 | 1.263 | 8.88 |
| 51) | T | 4-Methyl-2-Pen... | 0.210 | 0.190 | 0.219 | 0.246 | 0.245 | 0.219 | 0.221 | 9.68 |
| 52) | CM | Toluene | 0.970 | 0.836 | 0.890 | 0.850 | 0.829 | 0.889 | 0.877 | 5.99# |
| 53) | T | t-1,3-Dichloro... | 0.534 | 0.401 | 0.446 | 0.448 | 0.456 | 0.463 | 0.458 | 9.46 |
| 54) | T | cis-1,3-Dichlo... | 0.541 | 0.493 | 0.527 | 0.505 | 0.530 | 0.551 | 0.524 | 4.14 |
| 55) | T | 1,1,2-Trichlor... | 0.250 | 0.223 | 0.263 | 0.219 | 0.222 | 0.221 | 0.233 | 8.10 |

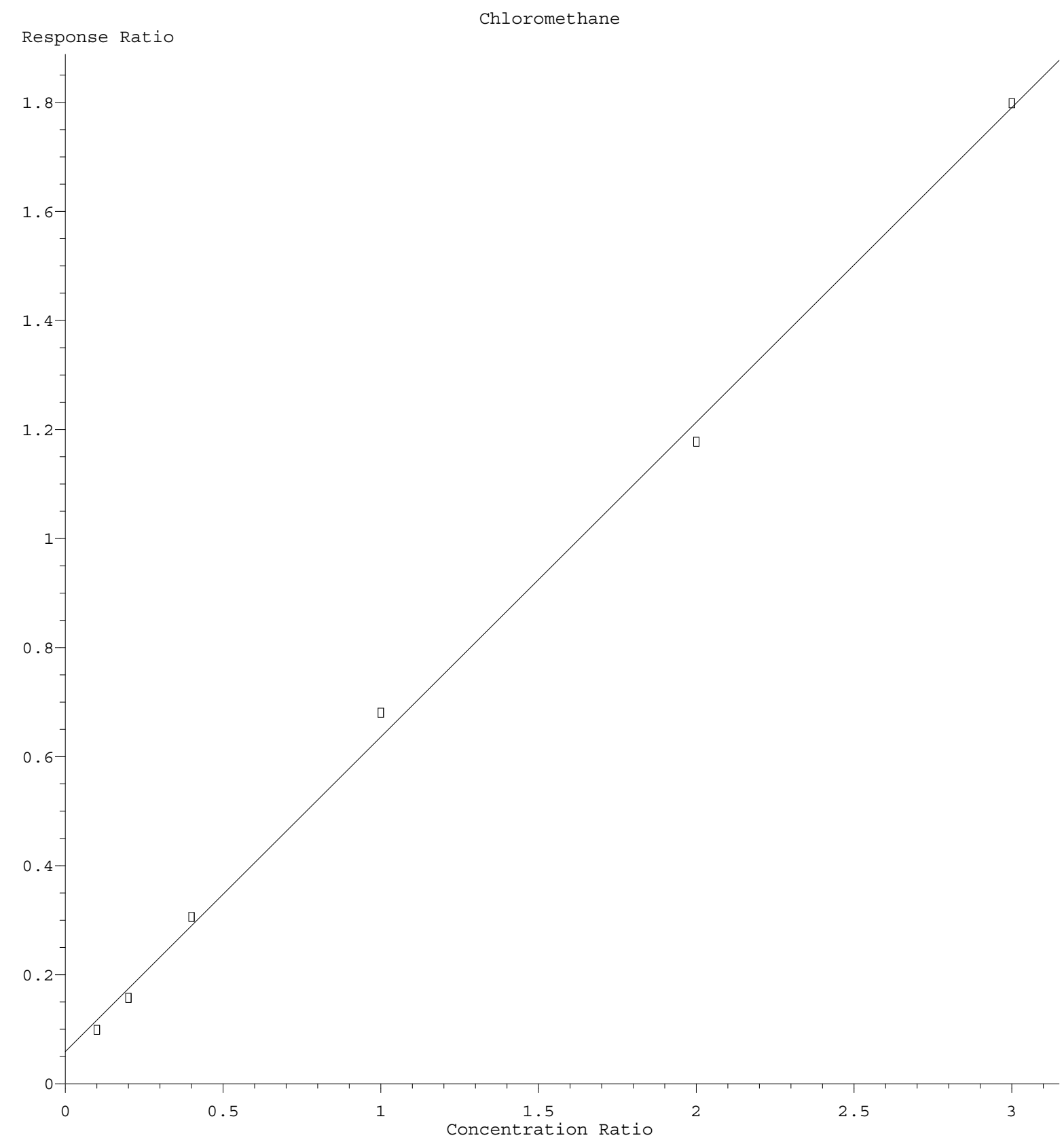
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y111924S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 56) | T | Ethyl methacry... | 0.378 | 0.307 | 0.339 | 0.354 | 0.367 | 0.354 | 0.350 | 7.09 |
| 57) | T | 1,3-Dichloropr... | 0.435 | 0.390 | 0.444 | 0.417 | 0.417 | 0.409 | 0.419 | 4.51 |
| 58) | T | 2-Chloroethyl ... | 0.178 | 0.162 | 0.160 | 0.156 | 0.167 | 0.172 | 0.166 | 4.96 |
| 59) | T | 2-Hexanone | 0.142 | 0.135 | 0.160 | 0.171 | 0.177 | 0.155 | 0.157 | 10.27 |
| 60) | T | Dibromochlorom... | 0.319 | 0.273 | 0.307 | 0.305 | 0.297 | 0.300 | 0.300 | 5.06 |
| 61) | T | 1,2-Dibromoethane | 0.247 | 0.200 | 0.221 | 0.217 | 0.204 | 0.206 | 0.216 | 8.07 |
| 62) | S | 4-Bromofluorob... | 0.459 | 0.381 | 0.384 | 0.430 | 0.369 | 0.413 | 0.406 | 8.52 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.402 | 0.344 | 0.401 | 0.331 | 0.333 | 0.350 | 0.360 | 9.08 |
| 65) | PM | Chlorobenzene | 1.258 | 1.079 | 1.083 | 1.144 | 1.040 | 1.085 | 1.115 | 6.97 |
| 66) | T | 1,1,1,2-Tetrac... | 0.428 | 0.351 | 0.360 | 0.369 | 0.354 | 0.372 | 0.372 | 7.60 |
| 67) | C | Ethyl Benzene | 2.319 | 1.973 | 2.002 | 2.051 | 1.932 | 2.063 | 2.057 | 6.69# |
| 68) | T | m/p-Xylenes | 0.829 | 0.725 | 0.742 | 0.708 | 0.696 | 0.745 | 0.741 | 6.35 |
| 69) | T | o-Xylene | 0.770 | 0.694 | 0.711 | 0.668 | 0.666 | 0.706 | 0.703 | 5.42 |
| 70) | T | Styrene | 1.261 | 1.128 | 1.165 | 1.131 | 1.131 | 1.188 | 1.167 | 4.45 |
| 71) | P | Bromoform | 0.207 | 0.180 | 0.195 | 0.189 | 0.199 | 0.194 | 0.194 | 4.68 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 4.851 | 4.028 | 4.070 | 4.314 | 3.899 | 4.251 | 4.236 | 7.96 |
| 74) | T | N-amyl acetate | 0.918 | 0.878 | 1.001 | 1.094 | 1.164 | 1.085 | 1.024 | 10.82 |
| 75) | P | 1,1,2,2-Tetrac... | 0.729 | 0.646 | 0.683 | 0.728 | 0.676 | 0.646 | 0.685 | 5.44 |
| 76) | T | 1,2,3-Trichlor... | 0.415 | 0.455 | 0.479 | 0.511 | 0.503 | 0.465 | 0.471 | 7.45 |
| 77) | T | Bromobenzene | 0.973 | 0.840 | 0.858 | 0.923 | 0.847 | 0.883 | 0.887 | 5.84 |
| 78) | T | n-propylbenzene | 5.602 | 4.857 | 4.973 | 5.199 | 4.722 | 5.146 | 5.083 | 6.10 |
| 79) | T | 2-Chlorotoluene | 3.136 | 2.687 | 3.201 | 2.886 | 2.706 | 2.920 | 2.923 | 7.28 |
| 80) | T | 1,3,5-Trimethy... | 3.622 | 3.162 | 3.792 | 3.392 | 3.156 | 3.414 | 3.423 | 7.34 |
| 81) | T | trans-1,4-Dich... | 0.235 | 0.214 | 0.230 | 0.256 | 0.257 | 0.252 | 0.241 | 7.14 |
| 82) | T | 4-Chlorotoluene | 3.301 | 2.810 | 3.266 | 2.948 | 2.773 | 3.000 | 3.016 | 7.42 |
| 83) | T | tert-Butylbenzene | 3.233 | 2.921 | 3.004 | 3.092 | 2.801 | 3.073 | 3.021 | 4.94 |
| 84) | T | 1,2,4-Trimethy... | 3.600 | 3.376 | 3.453 | 3.404 | 3.134 | 3.395 | 3.394 | 4.45 |
| 85) | T | sec-Butylbenzene | 5.836 | 4.237 | 4.948 | 5.073 | 4.046 | 4.434 | 4.762 | 13.87 |
| 86) | T | p-Isopropyltol... | 4.038 | 3.365 | 3.793 | 3.854 | 3.357 | 3.687 | 3.682 | 7.43 |
| 87) | T | 1,3-Dichlorobe... | 2.072 | 1.668 | 1.839 | 1.848 | 1.621 | 1.719 | 1.794 | 9.11 |
| 88) | T | 1,4-Dichlorobe... | 1.938 | 1.651 | 1.709 | 1.730 | 1.579 | 1.679 | 1.714 | 7.10 |
| 89) | T | n-Butylbenzene | 3.853 | 3.314 | 3.479 | 3.661 | 3.259 | 3.589 | 3.526 | 6.31 |
| 90) | T | Hexachloroethane | 0.756 | 0.650 | 0.719 | 0.771 | 0.654 | 0.715 | 0.711 | 7.07 |
| 91) | T | 1,2-Dichlorobe... | 1.630 | 1.401 | 1.506 | 1.547 | 1.414 | 1.474 | 1.495 | 5.75 |
| 92) | T | 1,2-Dibromo-3-... | 0.130 | 0.098 | 0.108 | 0.119 | 0.113 | 0.105 | 0.112 | 9.98 |
| 93) | T | 1,2,4-Trichlor... | 0.974 | 0.841 | 0.856 | 0.894 | 0.900 | 0.958 | 0.904 | 5.92 |
| 94) | T | Hexachlorobuta... | 0.603 | 0.519 | 0.530 | 0.539 | 0.529 | 0.590 | 0.552 | 6.46 |
| 95) | T | Naphthalene | 1.445 | 1.394 | 1.453 | 1.636 | 1.720 | 1.691 | 1.557 | 9.11 |
| 96) | T | 1,2,3-Trichlor... | 0.817 | 0.784 | 0.721 | 0.748 | 0.762 | 0.806 | 0.773 | 4.69 |

(#) = Out of Range




R = -8.522e-004 A*A + 4.609e-002 A + 5.442e-004
Coef of Det (r^2) = 0.990971  Curve Fit: Quadratic
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y111924S.M
Calibration Table Last Updated: Wed Nov 20 04:38:24 2024




Response = 5.772e-001 * Amt + 5.864e-002
Coef of Det (r^2) = 0.998139  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y111924S.M
Calibration Table Last Updated: Wed Nov 20 04:38:24 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:33:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 227223 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 374127 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 306982 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 140473 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 13832 | 5.299 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 10.600%# | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 12960 | 5.402 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 10.800%# | | | | |
| 50) Toluene-d8 | 10.109 | 98 | 52284 | 5.533 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 11.060%# | | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 17179 | 5.655 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 11.300%# | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 13013 | 5.900 | ug/l | | 93 |
| 3) Chloromethane | 2.068 | 50 | 22477 | 3.541 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 18543 | 6.128 | ug/l | | 99 |
| 5) Bromomethane | 2.605 | 94 | 9432 | 6.242 | ug/l | | 98 |
| 6) Chloroethane | 2.745 | 64 | 12063 | 6.834 | ug/l | | 94 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 25672 | 6.106 | ug/l | | 97 |
| 8) Diethyl Ether | 3.452 | 74 | 7250 | 5.465 | ug/l | | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 15136 | 6.045 | ug/l | | 99 |
| 10) Methyl Iodide | 4.013 | 142 | 19213 | 5.728 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 7536m | 35.866 | ug/l | | |
| 12) 1,1-Dichloroethene | 3.800 | 96 | 14708 | 5.934 | ug/l | | 94 |
| 13) Acrolein | 3.659 | 56 | 4362 | 26.985 | ug/l | | 95 |
| 14) Allyl chloride | 4.391 | 41 | 29279 | 6.108 | ug/l | | 93 |
| 15) Acrylonitrile | 5.061 | 53 | 16245 | 27.700 | ug/l | | 97 |
| 16) Acetone | 3.867 | 43 | 18219 | 29.112 | ug/l | | 92 |
| 17) Carbon Disulfide | 4.110 | 76 | 49286 | 5.902 | ug/l | | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 8805 | 6.036 | ug/l | | 94 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 35762 | 5.554 | ug/l | | 100 |
| 20) Methylene Chloride | 4.623 | 84 | 15740 | 5.939 | ug/l | | 93 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 16393 | 5.955 | ug/l | | 93 |
| 22) Diisopropyl ether | 6.019 | 45 | 58191 | 6.160 | ug/l | | 98 |
| 23) Vinyl Acetate | 5.964 | 43 | 152663 | 28.920 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 33199 | 6.226 | ug/l | | 98 |
| 25) 2-Butanone | 6.890 | 43 | 20288 | 25.181 | ug/l | | 96 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 25115 | 5.698 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.897 | 96 | 16128 | 5.319 | ug/l | | 92 |
| 28) Bromochloromethane | 7.244 | 49 | 12131 | 5.405 | ug/l | | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 11283 | 23.431 | ug/l | | 96 |
| 30) Chloroform | 7.421 | 83 | 27219 | 5.286 | ug/l | | 100 |
| 31) Cyclohexane | 7.707 | 56 | 29956 | 6.156 | ug/l | # | 79 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 24268 | 5.367 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 21801 | 5.950 | ug/l | | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 7806 | 4.569 | ug/l | # | 79 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 21497 | 5.619 | ug/l | | 93 |
| 39) Methylcyclohexane | 9.110 | 83 | 26014 | 5.673 | ug/l | | 93 |
| 40) Benzene | 8.079 | 78 | 61067 | 5.687 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:33:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 5114 | 5.355 | ug/l | | 92 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 15552 | 5.366 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 16024 | 4.909 | ug/l | # | 87 |
| 44) Trichloroethene | 8.866 | 130 | 14519 | 5.707 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 13999 | 5.464 | ug/l | | 94 |
| 46) Dibromomethane | 9.231 | 93 | 6930 | 5.278 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 19627 | 5.415 | ug/l | | 95 |
| 48) Methyl methacrylate | 9.225 | 41 | 7791 | 4.992 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.238 | 88 | 1421 | 105.186 | ug/l | # | 86 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 39329 | 23.742 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 36298 | 5.530 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 19995 | 5.833 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 20222 | 5.153 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 9364 | 5.372 | ug/l | | 94 |
| 56) Ethyl methacrylate | 10.439 | 69 | 14134 | 5.399 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 16257 | 5.190 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 33342 | 26.863 | ug/l | | 98 |
| 59) 2-Hexanone | 10.762 | 43 | 26616 | 22.690 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 11937 | 5.313 | ug/l | | 95 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 9249 | 5.726 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 12352 | 5.582 | ug/l | | 95 |
| 65) Chlorobenzene | 11.444 | 112 | 38618 | 5.642 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 13130 | 5.742 | ug/l | | 95 |
| 67) Ethyl Benzene | 11.518 | 91 | 71195 | 5.638 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 50872 | 11.185 | ug/l | | 97 |
| 69) o-Xylene | 11.957 | 106 | 23650 | 5.482 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 38724 | 5.403 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 6352 | 5.330 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.255 | 105 | 68143 | 5.726 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 12902 | 4.487 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 10246 | 5.328 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 5823m | 4.398 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 13674 | 5.485 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 78696 | 5.511 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 44055 | 5.365 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 50883 | 5.291 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 3305 | 4.891 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 46376 | 5.473 | ug/l | | 97 |
| 83) tert-Butylbenzene | 12.999 | 119 | 45414 | 5.351 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 50575 | 5.304 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 81980 | 6.127 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 56716 | 5.483 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 29101 | 5.773 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 27229 | 5.653 | ug/l | | 93 |
| 89) n-Butylbenzene | 13.621 | 91 | 54128 | 5.464 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 10618 | 5.318 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 22894 | 5.451 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 1828 | 5.792 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 13686 | 5.389 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 8471 | 5.465 | ug/l | | 100 |
| 95) Naphthalene | 15.151 | 128 | 20303 | 4.642 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 11474 | 5.284 | ug/l | | 98 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:33:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

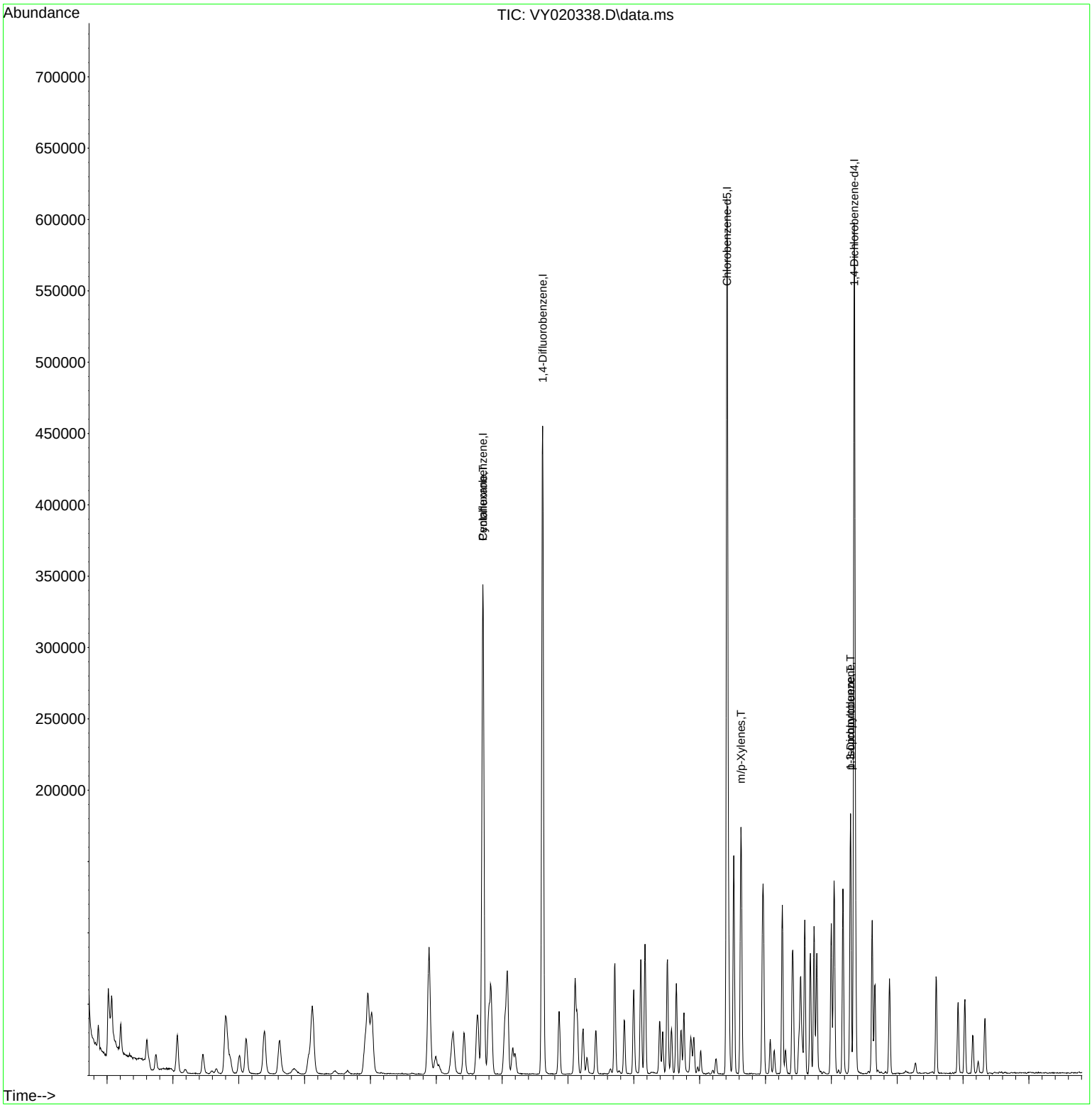
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 20 04:33:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 244176 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 390316 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 319281 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 146946 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 25534 | 9.102 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 18.200%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 27064 | 10.813 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 21.620%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 92555 | 9.388 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 18.780%# | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 29715 | 9.376 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 18.760%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 21870 | 9.227 | ug/l | | 97 |
| 3) Chloromethane | 2.068 | 50 | 38473 | 8.570 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 35263 | 10.845 | ug/l | | 94 |
| 5) Bromomethane | 2.598 | 94 | 19085 | 11.753 | ug/l | | 95 |
| 6) Chloroethane | 2.739 | 64 | 18368 | 9.684 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 42149 | 9.328 | ug/l | | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 12779 | 8.964 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 24798 | 9.215 | ug/l | | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 32100 | 8.906 | ug/l | | 96 |
| 11) Tert butyl alcohol | 4.884 | 59 | 10698 | 47.785 | ug/l | # | 73 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 24035 | 9.023 | ug/l | | 98 |
| 13) Acrolein | 3.659 | 56 | 7635 | 43.953 | ug/l | | 96 |
| 14) Allyl chloride | 4.385 | 41 | 47740 | 9.268 | ug/l | | 93 |
| 15) Acrylonitrile | 5.067 | 53 | 28314 | 44.928 | ug/l | | 100 |
| 16) Acetone | 3.872 | 43 | 26883 | 39.974 | ug/l | | 93 |
| 17) Carbon Disulfide | 4.110 | 76 | 79822 | 8.895 | ug/l | | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 13811 | 8.810 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 63324 | 9.152 | ug/l | | 99 |
| 20) Methylene Chloride | 4.616 | 84 | 26668 | 9.364 | ug/l | | 94 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 27492 | 9.293 | ug/l | | 91 |
| 22) Diisopropyl ether | 6.018 | 45 | 99254 | 9.778 | ug/l | | 96 |
| 23) Vinyl Acetate | 5.964 | 43 | 270395 | 47.667 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 55718 | 9.723 | ug/l | | 98 |
| 25) 2-Butanone | 6.896 | 43 | 42909 | 49.561 | ug/l | | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 47901 | 10.114 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 32422 | 9.950 | ug/l | | 95 |
| 28) Bromochloromethane | 7.244 | 49 | 27023 | 11.205 | ug/l | | 94 |
| 29) Tetrahydrofuran | 7.262 | 42 | 26874 | 51.935 | ug/l | | 94 |
| 30) Chloroform | 7.421 | 83 | 56708 | 10.248 | ug/l | | 93 |
| 31) Cyclohexane | 7.701 | 56 | 54063 | 10.338 | ug/l | # | 91 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 50897 | 10.475 | ug/l | | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 37302 | 9.758 | ug/l | | 98 |
| 37) Ethyl Acetate | 6.982 | 43 | 19056 | 10.691 | ug/l | | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 38996 | 9.770 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.103 | 83 | 45833 | 9.580 | ug/l | | 99 |
| 40) Benzene | 8.079 | 78 | 107451 | 9.592 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Nov 20 00:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 10243 | 10.280 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 29009 | 9.593 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 30398 | 8.926 | ug/l | # | 88 |
| 44) Trichloroethene | 8.865 | 130 | 25870 | 9.747 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 25874 | 9.680 | ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 13498 | 9.853 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 35727 | 9.447 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 14343 | 8.809 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.237 | 88 | 2821 | 200.157 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 74041 | 42.842 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 65234 | 9.527 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 31288 | 8.749 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 38511 | 9.407 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 17413 | 9.576 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 23973 | 8.778 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 30481 | 9.327 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 63051 | 48.691 | ug/l | | 100 |
| 59) 2-Hexanone | 10.761 | 43 | 52821 | 43.163 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 21348 | 9.108 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 15582 | 9.247 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 21998 | 9.558 | ug/l | | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 68874 | 9.675 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 22433 | 9.433 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 126010 | 9.595 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.627 | 106 | 92641 | 19.583 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 44303 | 9.874 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 72003 | 9.659 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 11513 | 9.289 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 118383 | 9.510 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 25808 | 8.579 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 18981 | 9.435 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 13381m | 9.631 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 24689 | 9.467 | ug/l | | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 142756 | 9.556 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 78983 | 9.195 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 92937 | 9.238 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 6286 | 8.893 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 82594 | 9.317 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 85832 | 9.668 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 99218 | 9.948 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 124529 | 8.898 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 98901 | 9.139 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 49013 | 9.295 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 48510 | 9.628 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 97403 | 9.399 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 19103 | 9.146 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 41163 | 9.369 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 2892 | 8.760 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 24704 | 9.299 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 15256 | 9.408 | ug/l | | 98 |
| 95) Naphthalene | 15.145 | 128 | 40980 | 8.957 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 23029 | 10.139 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

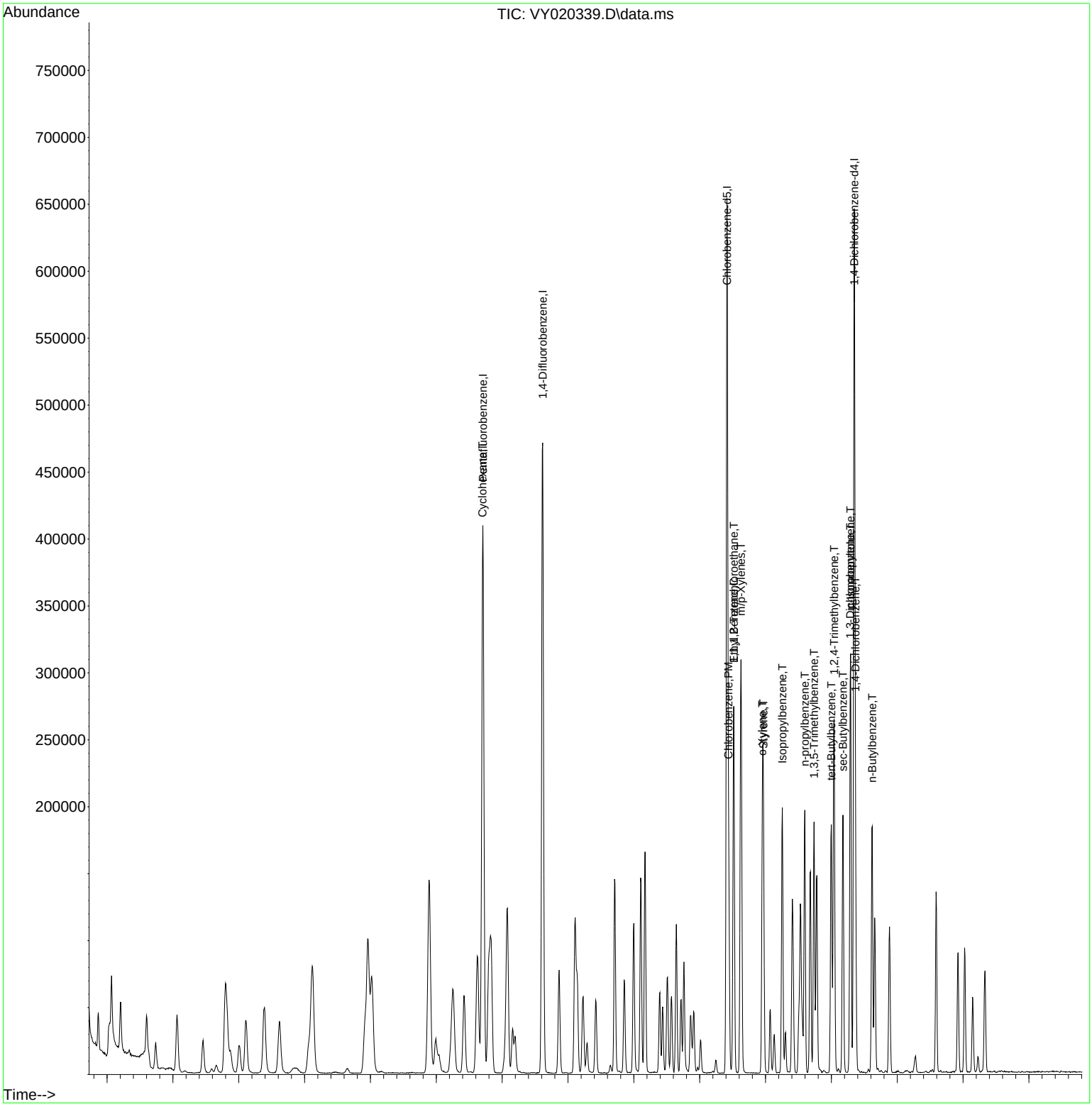
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 00:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 236844 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 387251 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 330555 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 152521 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 51590 | 18.960 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 37.920%# | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 47609 | 19.173 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 38.340%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 187150 | 19.133 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 38.260%# | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 59520 | 18.928 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 37.860% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 44219 | 19.234 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 72456 | 21.422 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 62913 | 19.948 | ug/l | 94 |
| 5) Bromomethane | 2.598 | 94 | 27790 | 17.643 | ug/l | 98 |
| 6) Chloroethane | 2.739 | 64 | 34289 | 18.637 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 84918 | 19.375 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 27857 | 20.145 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 50736 | 19.438 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 68857 | 19.695 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.879 | 59 | 21940 | 103.899 | ug/l | 96 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 50747 | 19.641 | ug/l | 96 |
| 13) Acrolein | 3.665 | 56 | 16692 | 99.067 | ug/l | 93 |
| 14) Allyl chloride | 4.385 | 41 | 102220 | 20.460 | ug/l | 92 |
| 15) Acrylonitrile | 5.061 | 53 | 66014 | 107.992 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 62372 | 95.616 | ug/l | 95 |
| 17) Carbon Disulfide | 4.110 | 76 | 165744 | 19.041 | ug/l | 98 |
| 18) Methyl Acetate | 4.385 | 43 | 32091 | 21.105 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 140395 | 20.918 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 56330 | 20.392 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 59438 | 20.713 | ug/l | 91 |
| 22) Diisopropyl ether | 6.019 | 45 | 178817 | 18.162 | ug/l | 95 |
| 23) Vinyl Acetate | 5.964 | 43 | 505150 | 91.808 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 102627 | 18.464 | ug/l | 98 |
| 25) 2-Butanone | 6.903 | 43 | 79554 | 94.731 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 85051 | 18.513 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 60883 | 19.263 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 41798 | 17.867 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 47318 | 94.274 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 101251 | 18.864 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 95143 | 18.757 | ug/l # | 91 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 89105 | 18.907 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 75098 | 19.801 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 34643 | 19.590 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 77388 | 19.543 | ug/l | 96 |
| 39) Methylcyclohexane | 9.109 | 83 | 94807 | 19.974 | ug/l | 98 |
| 40) Benzene | 8.085 | 78 | 223070 | 20.070 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Nov 20 01:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 18360 | 18.572 ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 61623 | 20.540 ug/l | | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 68510 | 20.277 ug/l | # | 86 |
| 44) Trichloroethene | 8.866 | 130 | 53189 | 20.198 ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 53935 | 20.339 ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 27481 | 20.219 ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 74220 | 19.781 ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 31955 | 19.782 ug/l | | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 5466 | 390.895 ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 169490 | 98.848 ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 137874 | 20.295 ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 69154 | 19.491 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 81594 | 20.089 ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 40747 | 22.585 ug/l | | 97 |
| 56) Ethyl methacrylate | 10.439 | 69 | 52436 | 19.353 ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 68770 | 21.210 ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 123646 | 96.241 ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 123944 | 102.083 ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 47578 | 20.459 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 34244 | 20.483 ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 53034 | 22.257 ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 143190 | 19.428 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 47541 | 19.309 ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 264743 | 19.471 ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 196288 | 40.078 ug/l | | 100 |
| 69) o-Xylene | 11.950 | 106 | 94022 | 20.240 ug/l | | 97 |
| 70) Styrene | 11.969 | 104 | 154055 | 19.960 ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 25826 | 20.127 ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 248304 | 19.218 ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 61053 | 19.554 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 41646 | 19.944 ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 29239m | 20.276 ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 52340 | 19.335 ug/l | | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 303366 | 19.564 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 195281 | 21.904 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 231329 | 22.154 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 14013 | 19.100 ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 199278 | 21.658 ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 183294 | 19.892 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 210671 | 20.350 ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 301882 | 20.781 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 231391 | 20.601 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 112176 | 20.495 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 104265 | 19.938 ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 212277 | 19.735 ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 43848 | 20.226 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 91859 | 20.143 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 6596 | 19.250 ug/l | | 91 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 52226 | 18.941 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 32319 | 19.202 ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 88652 | 18.669 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 43998 | 18.662 ug/l | | 97 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

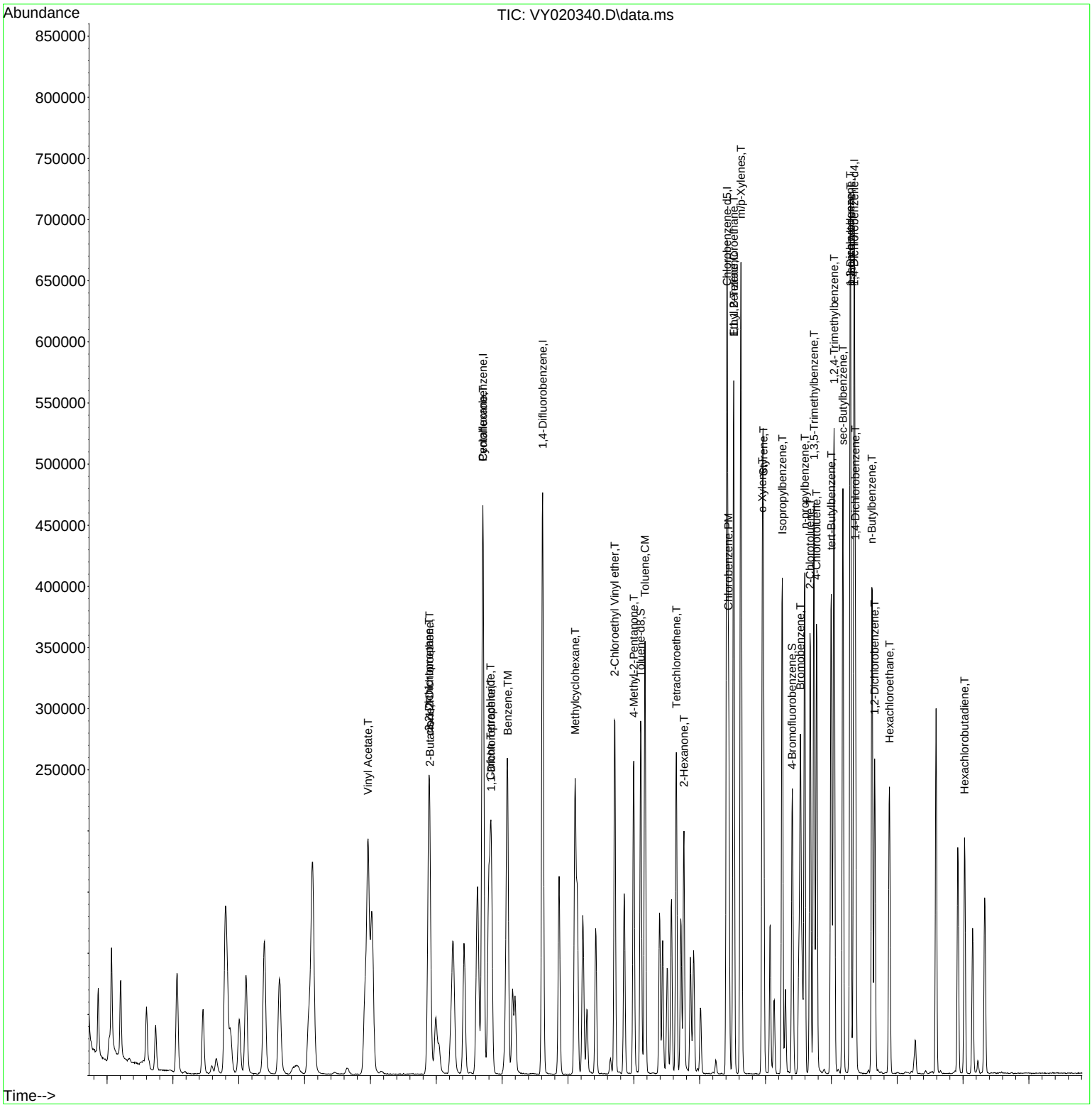
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 01:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:01:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 227113 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 420316 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 360842 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 149547 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 144497 | 55.378 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 110.760% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 135608 | 50.315 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.620% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 587453 | 55.332 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 110.660% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 180882 | 52.998 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 106.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 103026 | 46.735 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 154573 | 53.880 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 141208 | 46.691 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 71314 | 47.214 | ug/l | 100 |
| 6) Chloroethane | 2.739 | 64 | 83973 | 47.597 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 211527 | 50.331 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 69448 | 52.373 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 134494 | 53.736 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 187546 | 55.942 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.879 | 59 | 41051 | 212.148 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 133044 | 53.701 | ug/l | 100 |
| 13) Acrolein | 3.659 | 56 | 41213 | 255.080 | ug/l | 100 |
| 14) Allyl chloride | 4.391 | 41 | 214855 | 44.846 | ug/l | 100 |
| 15) Acrylonitrile | 5.061 | 53 | 140610 | 239.879 | ug/l | 100 |
| 16) Acetone | 3.873 | 43 | 181648 | 290.397 | ug/l | 100 |
| 17) Carbon Disulfide | 4.110 | 76 | 470701 | 56.393 | ug/l | 100 |
| 18) Methyl Acetate | 4.391 | 43 | 68494 | 46.975 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 317819 | 49.382 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 129583 | 48.919 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 136395 | 49.567 | ug/l | 100 |
| 22) Diisopropyl ether | 6.025 | 45 | 457338 | 48.440 | ug/l | 100 |
| 23) Vinyl Acetate | 5.964 | 43 | 1302817 | 246.924 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 258252 | 48.453 | ug/l | 100 |
| 25) 2-Butanone | 6.896 | 43 | 203885 | 253.183 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 217639 | 49.403 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 156034 | 51.482 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 115631 | 51.546 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.268 | 42 | 121226 | 251.872 | ug/l | 100 |
| 30) Chloroform | 7.421 | 83 | 280651 | 54.528 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 235065 | 48.327 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 226463 | 50.111 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 190663 | 46.316 | ug/l | 100 |
| 37) Ethyl Acetate | 6.988 | 43 | 89102 | 46.422 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 200826 | 46.725 | ug/l | 100 |
| 39) Methylcyclohexane | 9.110 | 83 | 245019 | 47.559 | ug/l | 100 |
| 40) Benzene | 8.079 | 78 | 566676 | 46.974 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:01:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 49407 | 46.047 ug/l | 100 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 152946 | 46.970 ug/l | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 177802 | 48.484 ug/l | 100 |
| 44) Trichloroethene | 8.866 | 130 | 134577 | 47.083 ug/l | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 134142 | 46.606 ug/l | 100 |
| 46) Dibromomethane | 9.231 | 93 | 72212 | 48.950 ug/l | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 206587 | 50.729 ug/l | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 84404 | 48.140 ug/l | 100 |
| 49) 1,4-Dioxane | 9.238 | 88 | 14757 | 972.312 ug/l | 100 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 516270 | 277.407 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 357134 | 48.435 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 188307 | 48.898 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 212293 | 48.156 ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 91951 | 46.957 ug/l | 100 |
| 56) Ethyl methacrylate | 10.439 | 69 | 148986 | 50.661 ug/l | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 175316 | 49.817 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 328825 | 235.811 ug/l | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 358788 | 272.258 ug/l | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 128210 | 50.796 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 91358 | 50.347 ug/l | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 119531 | 45.954 ug/l | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 412910 | 51.322 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 133303 | 49.598 ug/l | 100 |
| 67) Ethyl Benzene | 11.518 | 91 | 740094 | 49.862 ug/l | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 510631 | 95.509 ug/l | 100 |
| 69) o-Xylene | 11.957 | 106 | 241061 | 47.538 ug/l | 100 |
| 70) Styrene | 11.969 | 104 | 408085 | 48.436 ug/l | 100 |
| 71) Bromoform | 12.133 | 173 | 68064 | 48.591 ug/l | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 645114 | 50.923 ug/l | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 163678 | 53.464 ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 108812 | 53.145 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 76443m | 54.065 ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 137993 | 51.991 ug/l | 100 |
| 78) n-propylbenzene | 12.597 | 91 | 777424 | 51.134 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 431579 | 49.371 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 507211 | 49.541 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 38276 | 53.209 ug/l | 100 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 440797 | 48.859 ug/l | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 462472 | 51.187 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 508985 | 50.144 ug/l | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 758609 | 53.259 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 576317 | 52.331 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 276359 | 51.496 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 258732 | 50.459 ug/l | 100 |
| 89) n-Butylbenzene | 13.621 | 91 | 547533 | 51.917 ug/l | 100 |
| 90) Hexachloroethane | 13.877 | 117 | 115268 | 54.229 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 231279 | 51.724 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 17802 | 52.987 ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 133647 | 49.434 ug/l | 100 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 80673 | 48.885 ug/l | 100 |
| 95) Naphthalene | 15.145 | 128 | 244680 | 52.551 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 111791 | 48.361 ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:01:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

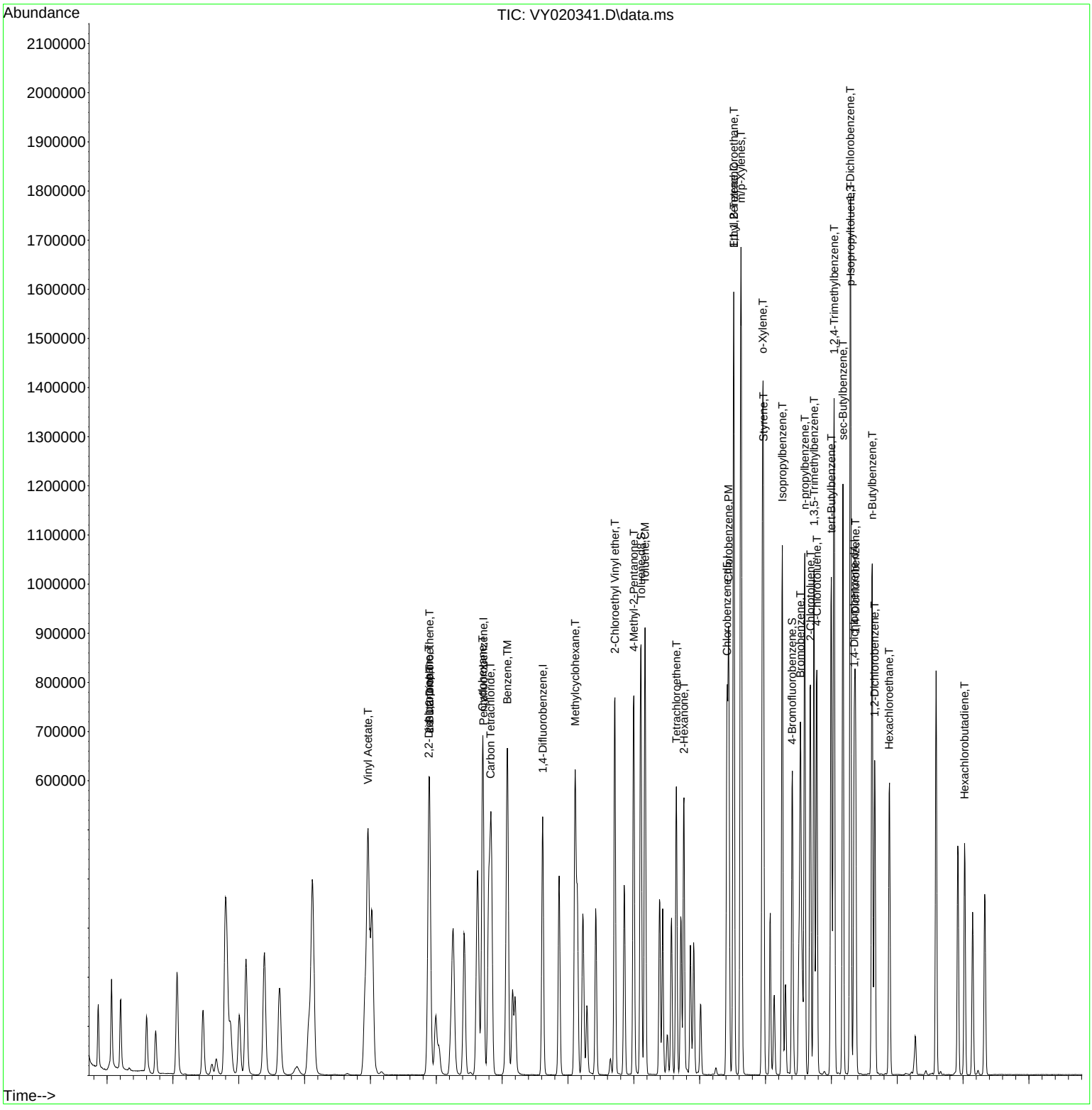
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 01:01:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:02:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 242950 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 418120 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 343084 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 154843 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.060 | 65 | 273625 | 98.031 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 196.060%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 241148 | 89.944 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 179.880%# | | | |
| 50) Toluene-d8 | 10.109 | 98 | 944968 | 89.473 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 178.940%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 308231 | 90.785 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 181.580%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.866 | 85 | 225851 | 95.772 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 286074 | 96.926 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 278011 | 85.934 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 135928 | 84.127 | ug/l | 99 |
| 6) Chloroethane | 2.738 | 64 | 162455 | 86.079 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.061 | 101 | 399021 | 88.755 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 138894 | 97.917 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 232946 | 87.004 | ug/l | 100 |
| 10) Methyl Iodide | 4.006 | 142 | 325705 | 90.820 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.890 | 59 | 97795 | 546.604 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 236992 | 89.422 | ug/l | 99 |
| 13) Acrolein | 3.659 | 56 | 86380 | 499.781 | ug/l | 97 |
| 14) Allyl chloride | 4.384 | 41 | 485310 | 94.695 | ug/l | 92 |
| 15) Acrylonitrile | 5.061 | 53 | 322609 | 514.491 | ug/l | 99 |
| 16) Acetone | 3.878 | 43 | 343146 | 512.820 | ug/l | 98 |
| 17) Carbon Disulfide | 4.110 | 76 | 800247 | 89.624 | ug/l | 99 |
| 18) Methyl Acetate | 4.390 | 43 | 159022 | 101.952 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 681962 | 99.054 | ug/l | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 264054 | 93.186 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 267977 | 91.038 | ug/l | 91 |
| 22) Diisopropyl ether | 6.024 | 45 | 982564 | 97.286 | ug/l | 98 |
| 23) Vinyl Acetate | 5.963 | 43 | 2923388 | 517.954 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 535189 | 93.866 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 479489 | 556.614 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 446478 | 94.743 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 314285 | 96.937 | ug/l | 98 |
| 28) Bromochloromethane | 7.250 | 49 | 218420 | 91.020 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.268 | 42 | 290644 | 564.509 | ug/l | 96 |
| 30) Chloroform | 7.420 | 83 | 516773 | 93.860 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 470793 | 90.481 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 456631 | 94.454 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 379162 | 92.591 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 204144 | 106.917 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 403792 | 94.441 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 476688 | 93.013 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 1152457 | 96.033 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Nov 20 01:02:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 113838 | 106.653 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 322641 | 99.603 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 411623 | 112.833 | ug/l | | 99 |
| 44) Trichloroethene | 8.865 | 130 | 265744 | 93.462 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 279709 | 97.691 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 145980 | 99.474 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 387534 | 95.661 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 195485 | 112.081 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.243 | 88 | 32314 | 2140.293 | ug/l | # | 82 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 1025042 | 553.677 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 692884 | 94.463 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.389 | 75 | 380932 | 99.436 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 442841 | 100.981 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 185332 | 95.141 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.438 | 69 | 307069 | 104.964 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.712 | 76 | 348373 | 99.512 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 700335 | 504.870 | ug/l | | 98 |
| 59) 2-Hexanone | 10.761 | 43 | 741041 | 565.275 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 248066 | 98.797 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 170430 | 94.416 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 228791 | 92.512 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 713827 | 93.316 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 243130 | 95.143 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1325393 | 93.917 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 955240 | 187.918 | ug/l | | 97 |
| 69) o-Xylene | 11.956 | 106 | 457290 | 94.846 | ug/l | | 98 |
| 70) Styrene | 11.968 | 104 | 776130 | 96.888 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 136679 | 102.627 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 1207507 | 92.057 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 360546 | 113.742 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 209284 | 98.722 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 155715m | 106.363 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 262304 | 95.447 | ug/l | | 96 |
| 78) n-propylbenzene | 12.596 | 91 | 1462491 | 92.904 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 837998 | 92.584 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.736 | 105 | 977514 | 92.211 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 79441 | 106.658 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 858743 | 91.930 | ug/l | | 97 |
| 83) tert-Butylbenzene | 12.999 | 119 | 867475 | 92.729 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 970690 | 92.360 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.175 | 105 | 1252922 | 84.955 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 1039560 | 91.166 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 502006 | 90.342 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.364 | 146 | 489016 | 92.108 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.620 | 91 | 1009278 | 92.426 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 202571 | 92.042 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 437794 | 94.562 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 35093 | 100.881 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 278868 | 99.621 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 163774 | 95.847 | ug/l | | 98 |
| 95) Naphthalene | 15.145 | 128 | 532709 | 110.498 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 235988 | 98.597 | ug/l | | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:02:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

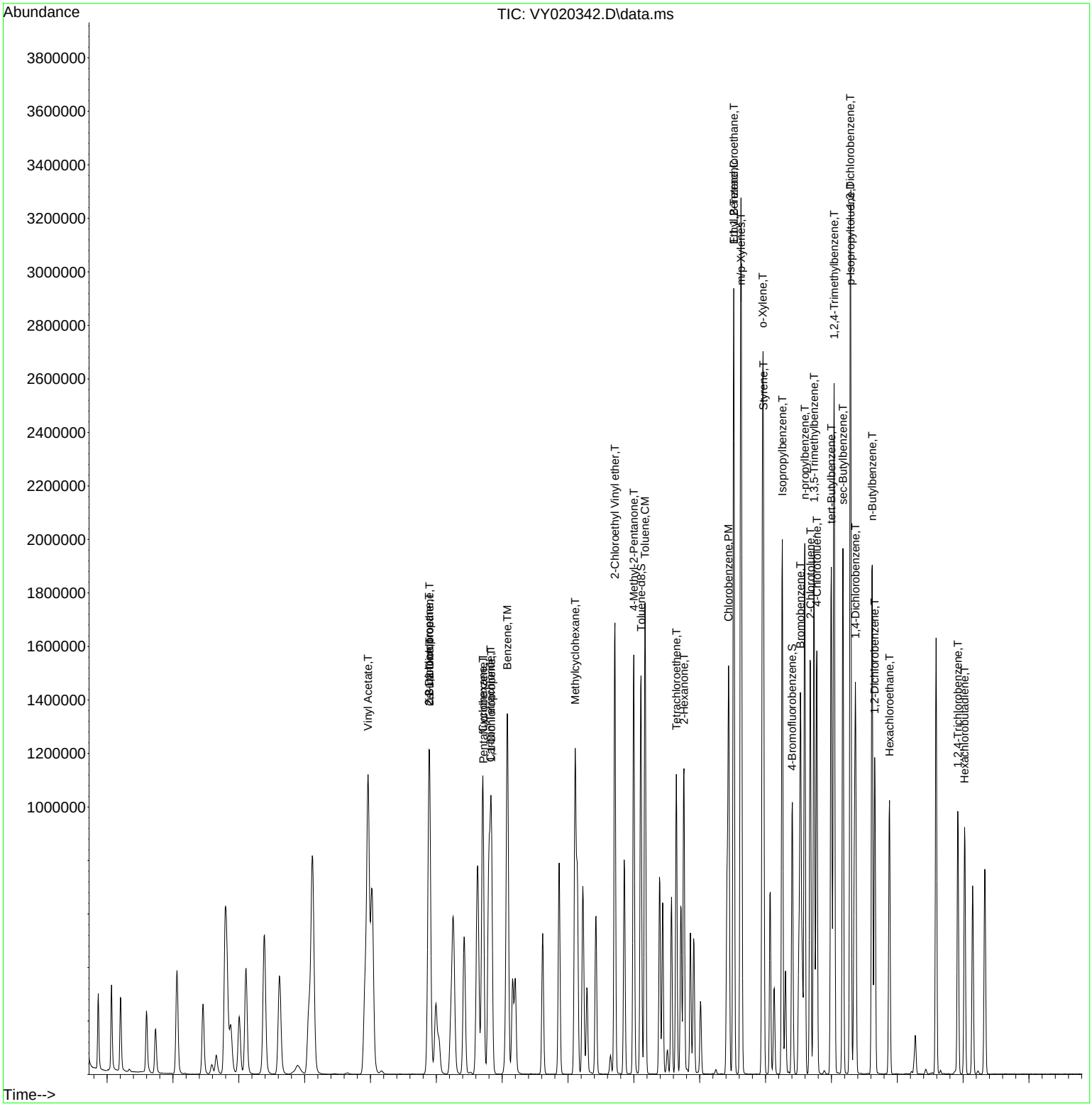
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 20 01:02:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020343.D
Acq On : 19 Nov 2024 17:42
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:03:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 211886 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 350739 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 296115 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 130996 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 363043 | 149.135 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 298.280%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 328532 | 146.077 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 292.160%# | | | |
| 50) Toluene-d8 | 10.109 | 98 | 1324547 | 149.507 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 299.020%# | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 434570 | 152.587 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 305.180%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 321802 | 156.466 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 381050 | 150.712 | ug/l | 97 |
| 4) Vinyl Chloride | 2.208 | 62 | 380588 | 134.887 | ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 192082 | 136.310 | ug/l | 98 |
| 6) Chloroethane | 2.738 | 64 | 227195 | 138.032 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 578218 | 147.470 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 181261 | 146.519 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 333758 | 142.933 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 446636 | 142.799 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.891 | 59 | 104155 | 729.517 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 333059 | 144.094 | ug/l | 100 |
| 13) Acrolein | 3.659 | 56 | 116557 | 773.250 | ug/l | 100 |
| 14) Allyl chloride | 4.384 | 41 | 660146 | 147.694 | ug/l | 93 |
| 15) Acrylonitrile | 5.061 | 53 | 379392 | 693.752 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 390697 | 669.485 | ug/l | 97 |
| 17) Carbon Disulfide | 4.110 | 76 | 1114337 | 143.098 | ug/l | 100 |
| 18) Methyl Acetate | 4.384 | 43 | 183151 | 134.637 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 855630 | 142.499 | ug/l | 98 |
| 20) Methylene Chloride | 4.616 | 84 | 350664 | 141.893 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 362921 | 141.368 | ug/l | 93 |
| 22) Diisopropyl ether | 6.024 | 45 | 1242472 | 141.056 | ug/l | 97 |
| 23) Vinyl Acetate | 5.963 | 43 | 3500470 | 711.125 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 709814 | 142.745 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 523049 | 696.197 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 608998 | 148.175 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 415289 | 146.869 | ug/l | 98 |
| 28) Bromochloromethane | 7.250 | 49 | 302639 | 144.606 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.268 | 42 | 318185 | 708.605 | ug/l | 96 |
| 30) Chloroform | 7.427 | 83 | 681143 | 141.851 | ug/l | 99 |
| 31) Cyclohexane | 7.701 | 56 | 630214 | 138.877 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 624176 | 148.040 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 511136 | 148.798 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 224596 | 140.226 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 561195 | 156.470 | ug/l | 97 |
| 39) Methylcyclohexane | 9.109 | 83 | 662542 | 154.113 | ug/l | 95 |
| 40) Benzene | 8.085 | 78 | 1510257 | 150.024 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020343.D
Acq On : 19 Nov 2024 17:42
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Nov 20 01:03:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 132286 | 147.746 ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 409666 | 150.765 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 465329 | 152.060 ug/l | # | 89 |
| 44) Trichloroethene | 8.865 | 130 | 356988 | 149.672 ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 365003 | 151.971 ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 179946 | 146.176 ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 515924 | 151.819 ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 229979 | 157.189 ug/l | | 95 |
| 49) 1,4-Dioxane | 9.237 | 88 | 35246 | 2782.975 ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 1150805 | 741.026 ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 935063 | 151.970 ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 487634 | 151.743 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 580042 | 157.678 ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 232403 | 142.225 ug/l | | 99 |
| 56) Ethyl methacrylate | 10.438 | 69 | 372428 | 151.763 ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 430536 | 146.608 ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 904374 | 777.210 ug/l | | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 815456 | 741.541 ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 315843 | 149.957 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 216859 | 143.217 ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 310822 | 145.616 ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 963689 | 145.962 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 330635 | 149.908 ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 1832488 | 150.446 ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 1323776 | 301.724 ug/l | | 97 |
| 69) o-Xylene | 11.956 | 106 | 627311 | 150.747 ug/l | | 97 |
| 70) Styrene | 11.968 | 104 | 1055739 | 152.698 ug/l | | 98 |
| 71) Bromoform | 12.127 | 173 | 172522 | 150.087 ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 1670748 | 150.561 ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 426531 | 159.054 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 253871 | 141.554 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 182550m | 147.393 ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 347120 | 149.303 ug/l | | 97 |
| 78) n-propylbenzene | 12.596 | 91 | 2022361 | 151.856 ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 1147443 | 149.851 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1341749 | 149.611 ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 98926 | 156.997 ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 1178773 | 149.162 ug/l | | 97 |
| 83) tert-Butylbenzene | 12.999 | 119 | 1207733 | 152.603 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 1334165 | 150.053 ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 1742388 | 139.651 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 1448758 | 150.180 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 675457 | 143.686 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 659854 | 146.911 ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 1410591 | 152.692 ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 280814 | 150.820 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 579091 | 147.851 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 41248 | 140.161 ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 376647 | 159.045 ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 232003 | 160.494 ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 664631 | 162.960 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 316780 | 156.446 ug/l | | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020343.D
Acq On : 19 Nov 2024 17:42
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:03:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

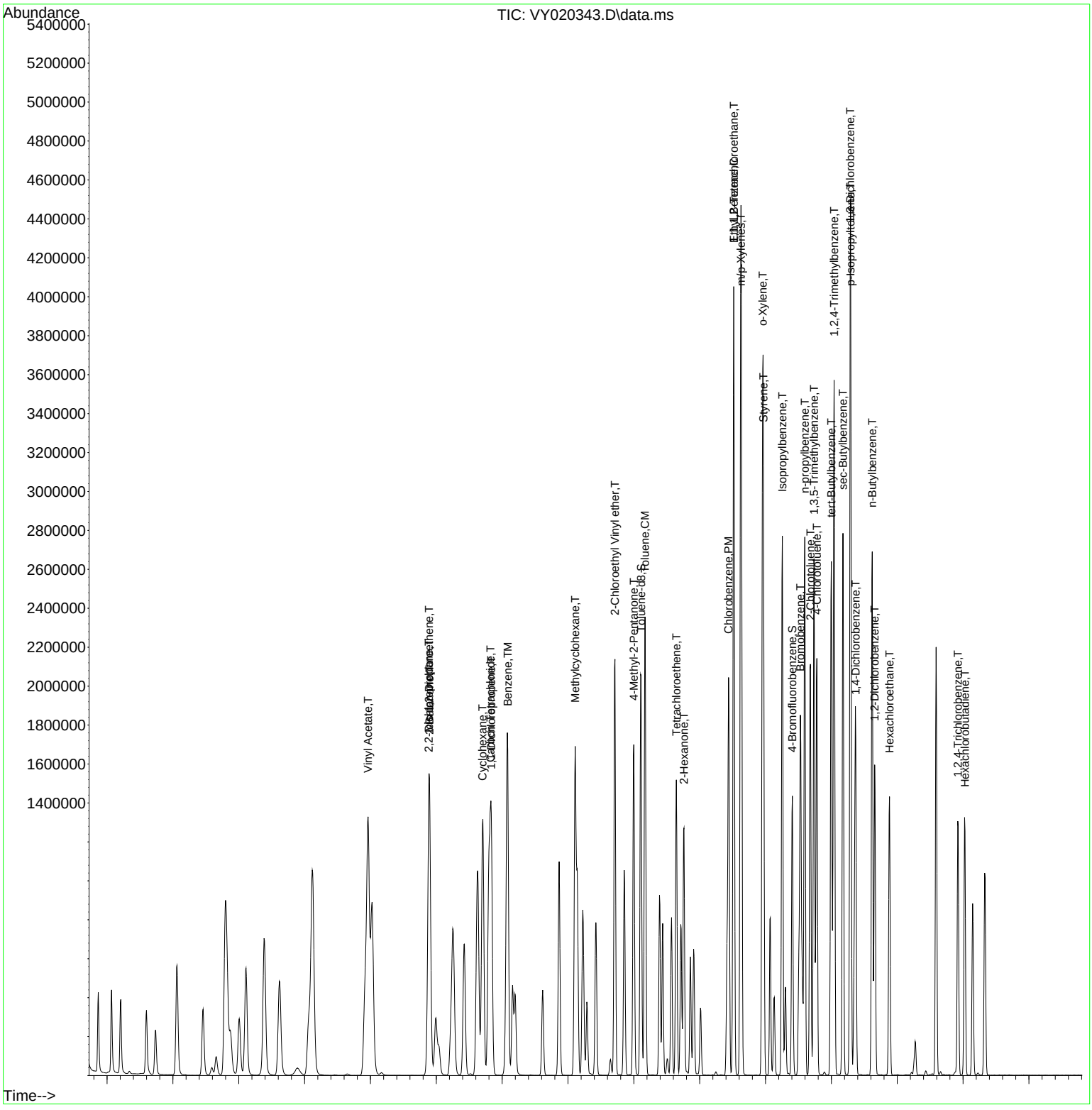
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020343.D
Acq On : 19 Nov 2024 17:42
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 20 01:03:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 218521 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 364341 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 309693 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 141489 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 110537 | 44.029 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 88.060% | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 97280 | 41.639 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 83.280% | | |
| 50) Toluene-d8 | 10.103 | 98 | 388428 | 42.207 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 84.420% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 130125 | 43.984 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 87.960% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 111072 | 52.365 | ug/l | 97 |
| 3) Chloromethane | 2.068 | 50 | 125077 | 44.505 | ug/l | 99 |
| 4) Vinyl Chloride | 2.208 | 62 | 123286 | 42.368 | ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 68717 | 47.284 | ug/l | 99 |
| 6) Chloroethane | 2.739 | 64 | 75903 | 44.715 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 199645 | 49.372 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 62415 | 48.920 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 113049 | 46.944 | ug/l | 98 |
| 10) Methyl Iodide | 4.007 | 142 | 155561 | 48.226 | ug/l | 96 |
| 11) Tert butyl alcohol | 4.872 | 59 | 41539 | 224.231 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 112225 | 47.078 | ug/l | 95 |
| 13) Acrolein | 3.659 | 56 | 41518 | 267.071 | ug/l | 100 |
| 14) Allyl chloride | 4.385 | 41 | 220954 | 47.933 | ug/l | 94 |
| 15) Acrylonitrile | 5.061 | 53 | 143447 | 254.341 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 143018 | 237.630 | ug/l | 98 |
| 17) Carbon Disulfide | 4.110 | 76 | 373607 | 46.520 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 70746 | 50.427 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 308971 | 49.895 | ug/l | 98 |
| 20) Methylene Chloride | 4.616 | 84 | 123291 | 48.374 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 124677 | 47.091 | ug/l | 92 |
| 22) Diisopropyl ether | 6.025 | 45 | 437612 | 48.173 | ug/l | 97 |
| 23) Vinyl Acetate | 5.964 | 43 | 1280046 | 252.147 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 244354 | 47.648 | ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 202028 | 260.742 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 205933 | 48.584 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 145516 | 49.900 | ug/l | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 103614 | 48.005 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 124725 | 269.331 | ug/l | 97 |
| 30) Chloroform | 7.421 | 83 | 238810 | 48.223 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 224125 | 47.890 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 219357 | 50.447 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 177989 | 49.880 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 89280 | 54.618 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 194915 | 52.317 | ug/l | 99 |
| 39) Methylcyclohexane | 9.110 | 83 | 229207 | 51.325 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 531435 | 50.820 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 51821 | 55.717 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 148909 | 52.755 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 177020 | 55.687 | ug/l | | 99 |
| 44) Trichloroethene | 8.866 | 130 | 124155 | 50.110 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 126442 | 50.680 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 64729 | 50.618 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 180213 | 51.051 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 84558 | 55.637 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.238 | 88 | 13548 | 1029.795 | ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 442279 | 274.160 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 326653 | 51.107 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 172434 | 51.655 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 202123 | 52.893 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 85673 | 50.472 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.439 | 69 | 136602 | 53.587 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 159236 | 52.199 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 300898 | 248.935 | ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 313607 | 274.534 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 114042 | 52.124 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 79188 | 50.344 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 109940 | 49.247 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 338718 | 49.054 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 115723 | 50.168 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 635246 | 49.867 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 465220 | 101.387 | ug/l | | 97 |
| 69) o-Xylene | 11.957 | 106 | 221747 | 50.951 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 371095 | 51.321 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 63418 | 52.752 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 592489 | 49.433 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 158787 | 54.821 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 97478 | 50.321 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 71473m | 53.595 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 124523 | 49.588 | ug/l | | 96 |
| 78) n-propylbenzene | 12.597 | 91 | 717478 | 49.879 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 407383 | 49.257 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 478483 | 49.396 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 34976 | 51.391 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 419222 | 49.114 | ug/l | | 97 |
| 83) tert-Butylbenzene | 12.999 | 119 | 433770 | 50.744 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 475972 | 49.562 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 620804 | 46.067 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 516099 | 49.532 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 242241 | 47.709 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 239050 | 49.275 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 497286 | 49.838 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 97244 | 48.355 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 212235 | 50.169 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 15688 | 49.354 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 133013 | 52.001 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 82641 | 52.929 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 250875 | 56.950 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 112500 | 51.439 | ug/l | | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

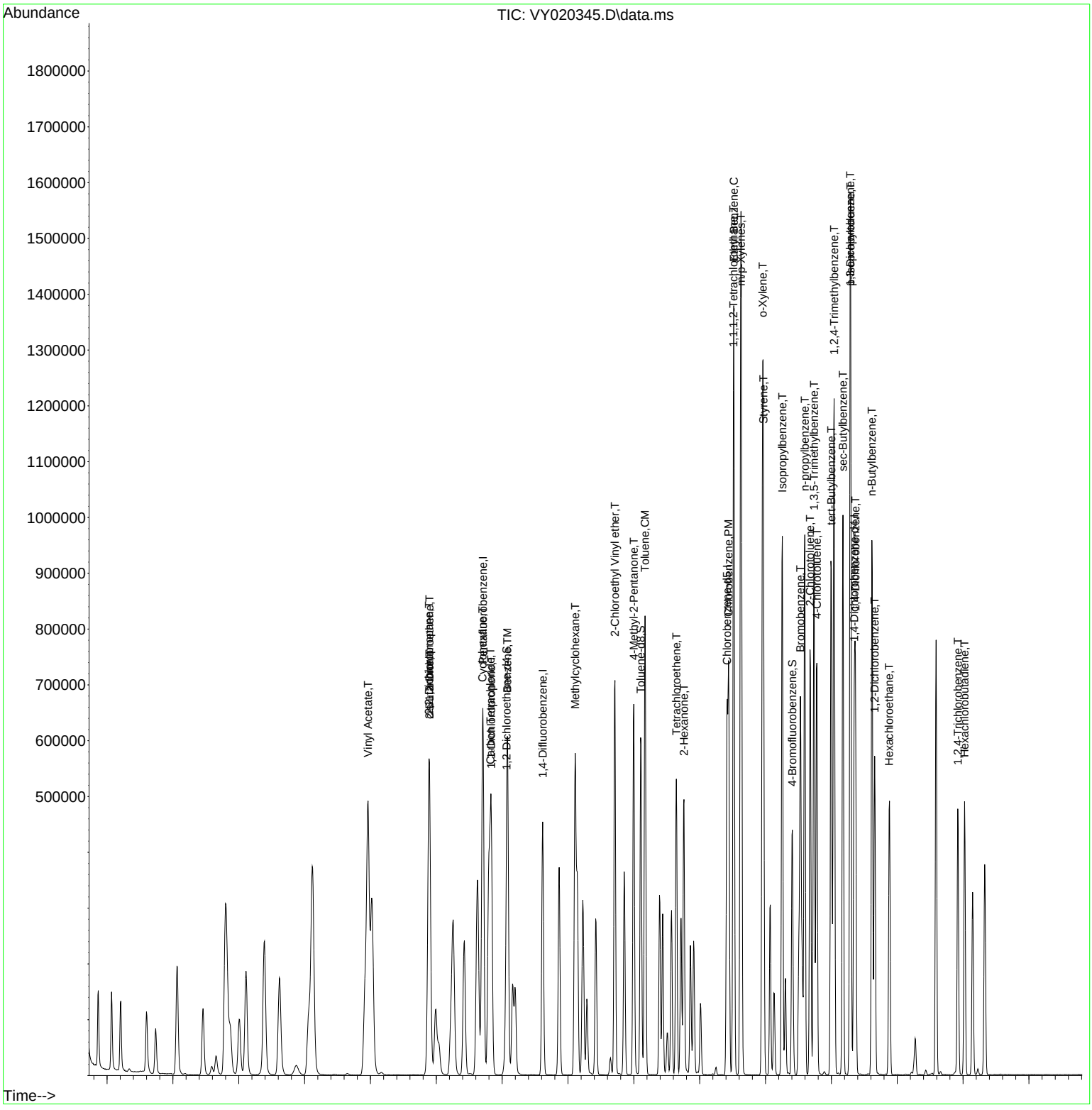
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.485 | 0.508 | -4.7 | 108 | 0.00 |
| 3 | P | Chloromethane | 0.735 | 0.572 | 22.2 | 81 | 0.00 |
| 4 | C | Vinyl Chloride | 0.666 | 0.564 | 15.3# | 87 | 0.00 |
| 5 | T | Bromomethane | 0.333 | 0.314 | 5.7 | 96 | 0.00 |
| 6 | T | Chloroethane | 0.388 | 0.347 | 10.6 | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.925 | 0.914 | 1.2 | 94 | 0.00 |
| 8 | T | Diethyl Ether | 0.292 | 0.286 | 2.1 | 90 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.517 | 6.2 | 84 | 0.00 |
| 10 | T | Methyl Iodide | 0.738 | 0.712 | 3.5 | 83 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.044 | 0.038 | 13.6 | 101 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.545 | 0.514 | 5.7# | 84 | 0.00 |
| 13 | T | Acrolein | 0.036 | 0.038 | -5.6 | 101 | 0.00 |
| 14 | T | Allyl chloride | 1.055 | 1.011 | 4.2 | 103 | 0.00 |
| 15 | T | Acrylonitrile | 0.129 | 0.131 | -1.6 | 102 | 0.00 |
| 16 | T | Acetone | 0.138 | 0.131 | 5.1 | 79 | 0.00 |
| 17 | T | Carbon Disulfide | 1.838 | 1.710 | 7.0 | 79 | 0.00 |
| 18 | T | Methyl Acetate | 0.321 | 0.324 | -0.9 | 103 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.417 | 1.414 | 0.2 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 0.583 | 0.564 | 3.3 | 95 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.606 | 0.571 | 5.8 | 91 | 0.00 |
| 22 | T | Diisopropyl ether | 2.079 | 2.003 | 3.7 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 1.162 | 1.172 | -0.9 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.173 | 1.118 | 4.7 | 95 | 0.00 |
| 25 | T | 2-Butanone | 0.177 | 0.185 | -4.5 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.970 | 0.942 | 2.9 | 95 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.667 | 0.666 | 0.1 | 93 | 0.00 |
| 28 | T | Bromochloromethane | 0.494 | 0.474 | 4.0 | 90 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.106 | 0.114 | -7.5 | 103 | 0.00 |
| 30 | C | Chloroform | 1.133 | 1.093 | 3.5# | 85 | 0.00 |
| 31 | T | Cyclohexane | 1.071 | 1.026 | 4.2 | 95 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.995 | 1.004 | -0.9 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.574 | 0.506 | 11.8 | 76 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.321 | 0.267 | 16.8 | 72 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.490 | 0.489 | 0.2 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 0.224 | 0.245 | -9.4 | 100 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.511 | 0.535 | -4.7 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.613 | 0.629 | -2.6 | 94 | 0.00 |
| 40 | TM | Benzene | 1.435 | 1.459 | -1.7 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 0.128 | 0.142 | -10.9 | 105 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.387 | 0.409 | -5.7 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.436 | 0.486 | -11.5 | 100 | 0.00 |
| 44 | TM | Trichloroethene | 0.340 | 0.341 | -0.3 | 92 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.342 | 0.347 | -1.5# | 94 | 0.00 |
| 46 | T | Dibromomethane | 0.175 | 0.178 | -1.7 | 90 | 0.00 |
| 47 | T | Bromodichloromethane | 0.484 | 0.495 | -2.3 | 87 | 0.00 |
| 48 | T | Methyl methacrylate | 0.209 | 0.232 | -11.0 | 100 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 92 | 0.00 |
| 50 | S | Toluene-d8 | 1.263 | 1.066 | 15.6 | 66 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.221 | 0.243 | -10.0 | 86 | 0.00 |
| 52 | CM | Toluene | 0.877 | 0.897 | -2.3# | 91 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.458 | 0.473 | -3.3 | 92 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.524 | 0.555 | -5.9 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.233 | 0.235 | -0.9 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.350 | 0.375 | -7.1 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.419 | 0.437 | -4.3 | 91 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.166 | 0.165 | 0.6 | 92 | 0.00 |
| 59 | T | 2-Hexanone | 0.157 | 0.172 | -9.6 | 87 | 0.00 |
| 60 | T | Dibromochloromethane | 0.300 | 0.313 | -4.3 | 89 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.216 | 0.217 | -0.5 | 87 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.406 | 0.357 | 12.1 | 72 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 64 | T | Tetrachloroethene | 0.360 | 0.355 | 1.4 | 92 | 0.00 |
| 65 | PM | Chlorobenzene | 1.115 | 1.094 | 1.9 | 82 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.372 | 0.374 | -0.5 | 87 | 0.00 |
| 67 | C | Ethyl Benzene | 2.057 | 2.051 | 0.3# | 86 | 0.00 |
| 68 | T | m/p-Xylenes | 0.741 | 0.751 | -1.3 | 91 | 0.00 |
| 69 | T | o-Xylene | 0.703 | 0.716 | -1.8 | 92 | 0.00 |
| 70 | T | Styrene | 1.167 | 1.198 | -2.7 | 91 | 0.00 |
| 71 | P | Bromoform | 0.194 | 0.205 | -5.7 | 93 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 4.236 | 4.188 | 1.1 | 92 | 0.00 |
| 74 | T | N-amyl acetate | 1.024 | 1.122 | -9.6 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.685 | 0.689 | -0.6 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.471 | 0.505 | -7.2 | 93 | 0.00 |
| 77 | T | Bromobenzene | 0.887 | 0.880 | 0.8 | 90 | 0.00 |
| 78 | T | n-propylbenzene | 5.083 | 5.071 | 0.2 | 92 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.923 | 2.879 | 1.5 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.423 | 3.382 | 1.2 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.241 | 0.247 | -2.5 | 91 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.016 | 2.963 | 1.8 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.021 | 3.066 | -1.5 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.394 | 3.364 | 0.9 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.762 | 4.388 | 7.9 | 82 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.682 | 3.648 | 0.9 | 90 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.794 | 1.712 | 4.6 | 88 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.714 | 1.690 | 1.4 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 3.526 | 3.515 | 0.3 | 91 | 0.00 |
| 90 | T | Hexachloroethane | 0.711 | 0.687 | 3.4 | 84 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.495 | 1.500 | -0.3 | 92 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.111 | 0.9 | 88 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.904 | 0.940 | -4.0 | 100 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.552 | 0.584 | -5.8 | 102 | 0.00 |
| 95 | T | Naphthalene | 1.557 | 1.773 | -13.9 | 103 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.773 | 0.795 | -2.8 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 52.365 | -4.7 | 108 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 44.505 | 11.0 | 81 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 42.368 | 15.3# | 87 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.284 | 5.4 | 96 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 44.715 | 10.6 | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.372 | 1.3 | 94 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 48.920 | 2.2 | 90 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 46.944 | 6.1 | 84 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 48.226 | 3.5 | 83 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 224.231 | 10.3 | 101 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.078 | 5.8# | 84 | 0.00 |
| 13 | T | Acrolein | 250.000 | 267.071 | -6.8 | 101 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 47.933 | 4.1 | 103 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 254.341 | -1.7 | 102 | 0.00 |
| 16 | T | Acetone | 250.000 | 237.630 | 4.9 | 79 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.520 | 7.0 | 79 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.427 | -0.9 | 103 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.895 | 0.2 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 48.374 | 3.3 | 95 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 47.091 | 5.8 | 91 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.173 | 3.7 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 252.147 | -0.9 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 47.648 | 4.7 | 95 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 260.742 | -4.3 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 48.584 | 2.8 | 95 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.900 | 0.2 | 93 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 48.005 | 4.0 | 90 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 269.331 | -7.7 | 103 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.223 | 3.6# | 85 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.890 | 4.2 | 95 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.447 | -0.9 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 44.029 | 11.9 | 76 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 87 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 41.639 | 16.7 | 72 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.880 | 0.2 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 54.618 | -9.2 | 100 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.317 | -4.6 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.325 | -2.7 | 94 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.820 | -1.6 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.717 | -11.4 | 105 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 52.755 | -5.5 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.687 | -11.4 | 100 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.110 | -0.2 | 92 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.680 | -1.4# | 94 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.618 | -1.2 | 90 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.051 | -2.1 | 87 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.637 | -11.3 | 100 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1029.795 | -3.0 | 92 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 42.207 | 15.6 | 66 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 274.160 | -9.7 | 86 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.107 | -2.2# | 91 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.655 | -3.3 | 92 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.893 | -5.8 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.472 | -0.9 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.587 | -7.2 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.199 | -4.4 | 91 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 248.935 | 0.4 | 92 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 274.534 | -9.8 | 87 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.124 | -4.2 | 89 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.344 | -0.7 | 87 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 43.984 | 12.0 | 72 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 86 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.247 | 1.5 | 92 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.054 | 1.9 | 82 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.168 | -0.3 | 87 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.867 | 0.3# | 86 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.387 | -1.4 | 91 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.951 | -1.9 | 92 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.321 | -2.6 | 91 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.752 | -5.5 | 93 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.433 | 1.1 | 92 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 54.821 | -9.6 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 50.321 | -0.6 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 53.595 | -7.2 | 93 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.588 | 0.8 | 90 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 49.879 | 0.2 | 92 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.257 | 1.5 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.396 | 1.2 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 51.391 | -2.8 | 91 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.114 | 1.8 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.744 | -1.5 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.562 | 0.9 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 46.067 | 7.9 | 82 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 49.532 | 0.9 | 90 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 47.709 | 4.6 | 88 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.275 | 1.5 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.838 | 0.3 | 91 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 48.355 | 3.3 | 84 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.169 | -0.3 | 92 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.354 | 1.3 | 88 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.001 | -4.0 | 100 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 52.929 | -5.9 | 102 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 56.950 | -13.9 | 103 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 51.439 | -2.9 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VD080058.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: MSVOA_D Calibration Date/Time: 11/18/2024 09:51

Lab File ID: VD080058.D Init. Calib. Date(s): 11/14/2024 11/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 18:02 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.663 | 0.682 | | 2.87 | 20 |
| 1,1,1-Trichloroethane | 0.906 | 0.953 | | 5.19 | 20 |
| Benzene | 1.463 | 1.574 | | 7.59 | 20 |
| Trichloroethene | 0.378 | 0.403 | | 6.61 | 20 |
| Toluene | 0.910 | 1.039 | | 14.18 | 20 |
| Ethyl Benzene | 1.863 | 2.115 | | 13.53 | 20 |
| m/p-Xylenes | 0.731 | 0.835 | | 14.23 | 20 |
| o-Xylene | 0.661 | 0.755 | | 14.22 | 20 |
| Isopropylbenzene | 3.255 | 3.560 | | 9.37 | 20 |
| 1,2-Dichloroethane-d4 | 0.514 | 0.514 | | 0 | 20 |
| Dibromofluoromethane | 0.334 | 0.359 | | 7.49 | 20 |
| Toluene-d8 | 1.259 | 1.382 | | 9.77 | 20 |
| 4-Bromofluorobenzene | 0.418 | 0.467 | | 11.72 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VD080058.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**
Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 175845 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 262205 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 246582 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 138959 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 90463 | 49.966 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 99.940% | | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 94082 | 53.913 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 107.820% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 362288 | 55.083 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 110.160% | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 122559 | 56.796 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 113.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 72174 | 51.140 | ug/l | 98 |
| 3) Chloromethane | 2.152 | 50 | 46527 | 44.830 | ug/l | 97 |
| 4) Vinyl Chloride | 2.287 | 62 | 54184 | 45.731 | ug/l | 97 |
| 5) Bromomethane | 2.693 | 94 | 56553 | 45.537 | ug/l | 97 |
| 6) Chloroethane | 2.840 | 64 | 36206 | 42.750 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 149797 | 51.474 | ug/l | 95 |
| 8) Diethyl Ether | 3.599 | 74 | 42441 | 49.958 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 101018 | 55.567 | ug/l | 98 |
| 10) Methyl Iodide | 4.163 | 142 | 114469 | 50.870 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.058 | 59 | 23131 | 245.505 | ug/l # | 83 |
| 12) 1,1-Dichloroethene | 3.946 | 96 | 94809 | 52.033 | ug/l | 98 |
| 13) Acrolein | 3.799 | 56 | 34993 | 193.560 | ug/l | 99 |
| 14) Allyl chloride | 4.563 | 41 | 123500 | 47.816 | ug/l | 97 |
| 15) Acrylonitrile | 5.258 | 53 | 97655 | 258.754 | ug/l | 99 |
| 16) Acetone | 4.022 | 43 | 119781 | 304.921 | ug/l | 95 |
| 17) Carbon Disulfide | 4.269 | 76 | 306403 | 52.223 | ug/l | 98 |
| 18) Methyl Acetate | 4.563 | 43 | 44231 | 50.769 | ug/l | 95 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 200071 | 53.822 | ug/l | 95 |
| 20) Methylene Chloride | 4.805 | 84 | 106824 | 50.706 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.316 | 96 | 107672 | 53.453 | ug/l | 95 |
| 22) Diisopropyl ether | 6.216 | 45 | 274840 | 52.549 | ug/l | 98 |
| 23) Vinyl Acetate | 6.157 | 43 | 792020 | 264.312 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.110 | 63 | 176897 | 50.853 | ug/l | 98 |
| 25) 2-Butanone | 7.081 | 43 | 141021 | 274.715 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 154180 | 50.990 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 119911 | 51.873 | ug/l | 96 |
| 28) Bromochloromethane | 7.428 | 49 | 71856 | 46.417 | ug/l | 86 |
| 29) Tetrahydrofuran | 7.446 | 42 | 77873 | 276.941 | ug/l | 96 |
| 30) Chloroform | 7.599 | 83 | 196141 | 53.520 | ug/l | 98 |
| 31) Cyclohexane | 7.875 | 56 | 149798 | 50.809 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 167583 | 53.434 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 137895 | 57.789 | ug/l | 98 |
| 37) Ethyl Acetate | 7.169 | 43 | 55961 | 54.562 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 149546 | 57.362 | ug/l | 96 |
| 39) Methylcyclohexane | 9.275 | 83 | 169555 | 59.683 | ug/l | 99 |
| 40) Benzene | 8.251 | 78 | 412833 | 55.505 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.404 | 41 | 32188 | 58.153 | ug/l | # | 88 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 108671 | 56.456 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.363 | 43 | 104260 | 56.077 | ug/l | | 98 |
| 44) Trichloroethene | 9.028 | 130 | 105658 | 54.897 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 99745 | 55.804 | ug/l | | 99 |
| 46) Dibromomethane | 9.398 | 93 | 59252 | 56.992 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.581 | 83 | 147223 | 56.575 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.381 | 41 | 50991 | 57.448 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.387 | 88 | 12518 | 1312.552 | ug/l | | 89 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 290646 | 308.122 | ug/l | | 98 |
| 52) Toluene | 10.334 | 92 | 272513 | 58.959 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 132147 | 56.966 | ug/l | | 95 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 156470 | 56.974 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 78335 | 56.953 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.598 | 69 | 97292 | 60.830 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 129067 | 57.683 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 182651 | 301.942 | ug/l | | 93 |
| 59) 2-Hexanone | 10.922 | 43 | 225753 | 325.372 | ug/l | | 97 |
| 60) Dibromochloromethane | 11.069 | 129 | 105481 | 59.580 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 76497 | 58.988 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.810 | 164 | 98994 | 56.375 | ug/l | | 96 |
| 65) Chlorobenzene | 11.610 | 112 | 294337 | 54.721 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 105301 | 56.240 | ug/l | | 96 |
| 67) Ethyl Benzene | 11.681 | 91 | 521593 | 57.792 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.792 | 106 | 411810 | 116.753 | ug/l | | 100 |
| 69) o-Xylene | 12.122 | 106 | 186146 | 58.710 | ug/l | | 95 |
| 70) Styrene | 12.134 | 104 | 333504 | 58.932 | ug/l | | 99 |
| 71) Bromoform | 12.298 | 173 | 64595 | 58.512 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.422 | 105 | 494625 | 55.196 | ug/l | | 99 |
| 74) N-amyl acetate | 12.234 | 43 | 107015 | 54.198 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83 | 93217 | 54.127 | ug/l | | 96 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 62314m | 50.784 | ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 127393 | 54.702 | ug/l | | 95 |
| 78) n-propylbenzene | 12.763 | 91 | 622903 | 56.246 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 350353 | 53.946 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 424889 | 56.023 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 33885 | 56.519 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 379418 | 54.649 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.163 | 119 | 368273 | 56.067 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 433821 | 56.940 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.345 | 105 | 549366 | 56.582 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 473074 | 57.644 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 255878 | 54.259 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.539 | 146 | 253429 | 53.508 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.786 | 91 | 440006 | 56.989 | ug/l | | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 94669 | 53.810 | ug/l | | 92 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 221390 | 53.838 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 13498 | 51.831 | ug/l | | 80 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 155321 | 60.235 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 86408 | 62.001 | ug/l | | 98 |
| 95) Naphthalene | 15.333 | 128 | 264830 | 60.465 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 128996 | 56.965 | ug/l | | 100 |

Sample Results: **VD080058.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

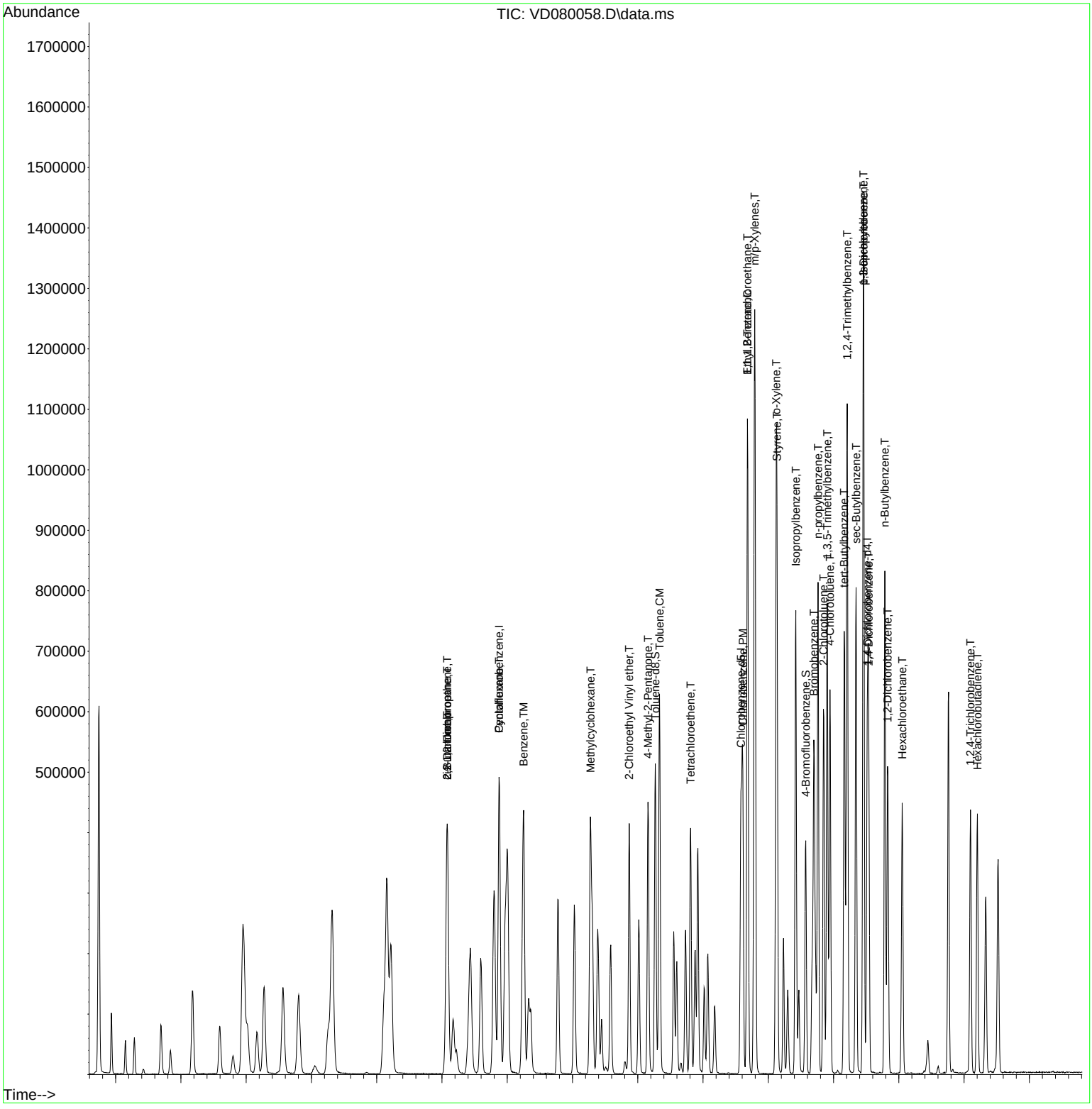
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



Evaluate Continuing Calibration Report

Sample Results: **VD080058.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.401 | 0.410 | -2.2 | 89 | 0.00 |
| 3 | P | Chloromethane | 0.295 | 0.265 | 10.2 | 83 | 0.00 |
| 4 | C | Vinyl Chloride | 0.337 | 0.308 | 8.6# | 82 | 0.00 |
| 5 | T | Bromomethane | 0.374 | 0.322 | 13.9 | 91 | 0.00 |
| 6 | T | Chloroethane | 0.241 | 0.206 | 14.5 | 85 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.827 | 0.852 | -3.0 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 0.242 | 0.241 | 0.4 | 92 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.517 | 0.574 | -11.0 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 0.640 | 0.651 | -1.7 | 80 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.027 | 0.026 | 3.7 | 99 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.518 | 0.539 | -4.1# | 95 | 0.00 |
| 13 | T | Acrolein | 0.051 | 0.040 | 21.6 | 71 | 0.00 |
| 14 | T | Allyl chloride | 0.734 | 0.702 | 4.4 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.111 | -3.7 | 95 | 0.00 |
| 16 | T | Acetone | 0.112 | 0.136 | -21.4 | 111 | 0.00 |
| 17 | T | Carbon Disulfide | 1.668 | 1.742 | -4.4 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 0.248 | 0.252 | -1.6 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.057 | 1.138 | -7.7 | 90 | 0.00 |
| 20 | T | Methylene Chloride | 0.599 | 0.607 | -1.3 | 94 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.573 | 0.612 | -6.8 | 91 | 0.00 |
| 22 | T | Diisopropyl ether | 1.487 | 1.563 | -5.1 | 87 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.901 | -5.8 | 85 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.989 | 1.006 | -1.7 | 89 | 0.00 |
| 25 | T | 2-Butanone | 0.146 | 0.160 | -9.6 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.860 | 0.877 | -2.0 | 90 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.657 | 0.682 | -3.8 | 90 | 0.00 |
| 28 | T | Bromochloromethane | 0.440 | 0.409 | 7.0 | 87 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.080 | 0.089 | -11.2 | 90 | 0.00 |
| 30 | C | Chloroform | 1.042 | 1.115 | -7.0# | 94 | 0.00 |
| 31 | T | Cyclohexane | 0.838 | 0.852 | -1.7 | 92 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.892 | 0.953 | -6.8 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.515 | 0.514 | 0.2 | 84 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 82 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.333 | 0.359 | -7.8 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.455 | 0.526 | -15.6 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 0.196 | 0.213 | -8.7 | 90 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.497 | 0.570 | -14.7 | 95 | 0.00 |
| 39 | T | Methylcyclohexane | 0.542 | 0.647 | -19.4 | 95 | 0.00 |
| 40 | TM | Benzene | 1.418 | 1.574 | -11.0 | 90 | 0.00 |
| 41 | T | Methacrylonitrile | 0.106 | 0.123 | -16.0 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.367 | 0.414 | -12.8 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.355 | 0.398 | -12.1 | 89 | 0.00 |
| 44 | TM | Trichloroethene | 0.367 | 0.403 | -9.8 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.341 | 0.380 | -11.4# | 88 | 0.00 |
| 46 | T | Dibromomethane | 0.198 | 0.226 | -14.1 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 0.496 | 0.561 | -13.1 | 92 | 0.00 |
| 48 | T | Methyl methacrylate | 0.169 | 0.194 | -14.8 | 90 | 0.00 |

Sample Results: **VD080058.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 94 | 0.00 |
| 50 | S | Toluene-d8 | 1.254 | 1.382 | -10.2 | 85 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.180 | 0.222 | -23.3 | 94 | 0.00 |
| 52 | CM | Toluene | 0.881 | 1.039 | -17.9# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.442 | 0.504 | -14.0 | 90 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.524 | 0.597 | -13.9 | 90 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.262 | 0.299 | -14.1 | 92 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.305 | 0.371 | -21.6 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.427 | 0.492 | -15.2 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.115 | 0.139 | -20.9 | 93 | 0.00 |
| 59 | T | 2-Hexanone | 0.132 | 0.172 | -30.3# | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 0.338 | 0.402 | -18.9 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.247 | 0.292 | -18.2 | 95 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.411 | 0.467 | -13.6 | 88 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 83 | 0.00 |
| 64 | T | Tetrachloroethene | 0.356 | 0.401 | -12.6 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 1.091 | 1.194 | -9.4 | 92 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.380 | 0.427 | -12.4 | 93 | 0.00 |
| 67 | C | Ethyl Benzene | 1.830 | 2.115 | -15.6# | 94 | 0.00 |
| 68 | T | m/p-Xylenes | 0.715 | 0.835 | -16.8 | 95 | 0.00 |
| 69 | T | o-Xylene | 0.643 | 0.755 | -17.4 | 93 | 0.00 |
| 70 | T | Styrene | 1.148 | 1.353 | -17.9 | 92 | 0.00 |
| 71 | P | Bromoform | 0.224 | 0.262 | -17.0 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 73 | T | Isopropylbenzene | 3.224 | 3.560 | -10.4 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 0.710 | 0.770 | -8.5 | 91 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.620 | 0.671 | -8.2 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.442 | 0.448 | -1.4 | 97 | 0.00 |
| 77 | T | Bromobenzene | 0.838 | 0.917 | -9.4 | 98 | 0.00 |
| 78 | T | n-propylbenzene | 3.985 | 4.483 | -12.5 | 98 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.337 | 2.521 | -7.9 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.729 | 3.058 | -12.1 | 97 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.216 | 0.244 | -13.0 | 98 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.498 | 2.730 | -9.3 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.363 | 2.650 | -12.1 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.741 | 3.122 | -13.9 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.494 | 3.953 | -13.1 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.953 | 3.404 | -15.3 | 100 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.697 | 1.841 | -8.5 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.704 | 1.824 | -7.0 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 2.778 | 3.166 | -14.0 | 100 | 0.00 |
| 90 | T | Hexachloroethane | 0.633 | 0.681 | -7.6 | 100 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.480 | 1.593 | -7.6 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.097 | -3.2 | 94 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.928 | 1.118 | -20.5 | 108 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.501 | 0.622 | -24.2 | 112 | 0.00 |
| 95 | T | Naphthalene | 1.576 | 1.906 | -20.9 | 104 | 0.00 |

Sample Results: **VD080058.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.815 | 0.928 | -13.9 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VD080058.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 86 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 51.140 | -2.3 | 89 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 44.830 | 10.3 | 83 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.731 | 8.5# | 82 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 45.537 | 8.9 | 91 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 42.750 | 14.5 | 85 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.474 | -2.9 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.958 | 0.1 | 92 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 55.567 | -11.1 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.870 | -1.7 | 80 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 245.505 | 1.8 | 99 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 52.033 | -4.1# | 95 | 0.00 |
| 13 | T | Acrolein | 250.000 | 193.560 | 22.6 | 71 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 47.816 | 4.4 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 258.754 | -3.5 | 95 | 0.00 |
| 16 | T | Acetone | 250.000 | 304.921 | -22.0 | 111 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 52.223 | -4.4 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.769 | -1.5 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 53.822 | -7.6 | 90 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.706 | -1.4 | 94 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 53.453 | -6.9 | 91 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.549 | -5.1 | 87 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 264.312 | -5.7 | 85 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.853 | -1.7 | 89 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 274.715 | -9.9 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 50.990 | -2.0 | 90 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.873 | -3.7 | 90 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 46.417 | 7.2 | 87 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 276.941 | -10.8 | 90 | 0.00 |
| 30 | C | Chloroform | 50.000 | 53.520 | -7.0# | 94 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.809 | -1.6 | 92 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 53.434 | -6.9 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.966 | 0.1 | 84 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 82 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 53.913 | -7.8 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 57.789 | -15.6 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 54.562 | -9.1 | 90 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 57.362 | -14.7 | 95 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 59.683 | -19.4 | 95 | 0.00 |
| 40 | TM | Benzene | 50.000 | 55.505 | -11.0 | 90 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 58.153 | -16.3 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 56.456 | -12.9 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 56.077 | -12.2 | 89 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 54.897 | -9.8 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 55.804 | -11.6# | 88 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 56.992 | -14.0 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 56.575 | -13.2 | 92 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 57.448 | -14.9 | 90 | 0.00 |

Sample Results: **VD080058.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1312.552 | -31.3# | 94 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 55.083 | -10.2 | 85 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 308.122 | -23.2 | 94 | 0.00 |
| 52 | CM | Toluene | 50.000 | 58.959 | -17.9# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 56.966 | -13.9 | 90 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 56.974 | -13.9 | 90 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 56.953 | -13.9 | 92 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 60.830 | -21.7 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 57.683 | -15.4 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 301.942 | -20.8 | 93 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 325.372 | -30.1# | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 59.580 | -19.2 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 58.988 | -18.0 | 95 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 56.796 | -13.6 | 88 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 83 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 56.375 | -12.8 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 54.721 | -9.4 | 92 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 56.240 | -12.5 | 93 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 57.792 | -15.6# | 94 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 116.753 | -16.8 | 95 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 58.710 | -17.4 | 93 | 0.00 |
| 70 | T | Styrene | 50.000 | 58.932 | -17.9 | 92 | 0.00 |
| 71 | P | Bromoform | 50.000 | 58.512 | -17.0 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 89 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 55.196 | -10.4 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 54.198 | -8.4 | 91 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 54.127 | -8.3 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 50.784 | -1.6 | 97 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 54.702 | -9.4 | 98 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 56.246 | -12.5 | 98 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 53.946 | -7.9 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 56.023 | -12.0 | 97 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 56.519 | -13.0 | 98 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 54.649 | -9.3 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 56.067 | -12.1 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 56.940 | -13.9 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 56.582 | -13.2 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 57.644 | -15.3 | 100 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 54.259 | -8.5 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 53.508 | -7.0 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 56.989 | -14.0 | 100 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 53.810 | -7.6 | 100 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 53.838 | -7.7 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.831 | -3.7 | 94 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 60.235 | -20.5 | 108 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 62.001 | -24.0 | 112 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 60.465 | -20.9 | 104 | 0.00 |

Sample Results: **VD080058.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 56.965 | -13.9 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: MSVOA_Y Calibration Date/Time: 11/21/2024 09:25

Lab File ID: VY020373.D Init. Calib. Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.667 | 0.667 | | 0 | 20 |
| 1,1,1-Trichloroethane | 0.995 | 1.042 | | 4.72 | 20 |
| Benzene | 1.435 | 1.479 | | 3.07 | 20 |
| Trichloroethene | 0.340 | 0.348 | | 2.35 | 20 |
| Toluene | 0.877 | 0.905 | | 3.19 | 20 |
| Ethyl Benzene | 2.057 | 2.103 | | 2.24 | 20 |
| m/p-Xylenes | 0.741 | 0.763 | | 2.97 | 20 |
| o-Xylene | 0.703 | 0.723 | | 2.85 | 20 |
| Isopropylbenzene | 4.236 | 4.245 | | 0.21 | 20 |
| 1,2-Dichloroethane-d4 | 0.574 | 0.598 | | 4.18 | 20 |
| Dibromofluoromethane | 0.321 | 0.316 | | -1.56 | 20 |
| Toluene-d8 | 1.263 | 1.242 | | -1.66 | 20 |
| 4-Bromofluorobenzene | 0.406 | 0.415 | | 2.22 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 191018 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 313957 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 263957 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 121826 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 114241 | 52.056 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 104.120% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 99082 | 49.217 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.440% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 389849 | 49.159 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.320% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 130147 | 51.051 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 102.100% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 105756 | 57.038 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 110402 | 44.989 | ug/l | 98 |
| 4) Vinyl Chloride | 2.214 | 62 | 108241 | 42.554 | ug/l | 99 |
| 5) Bromomethane | 2.604 | 94 | 58141 | 45.767 | ug/l | 100 |
| 6) Chloroethane | 2.745 | 64 | 64064 | 43.174 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 183733 | 51.979 | ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 55454 | 49.722 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 101743 | 48.332 | ug/l | 100 |
| 10) Methyl Iodide | 4.019 | 142 | 134068 | 47.547 | ug/l | 94 |
| 11) Tert butyl alcohol | 4.872 | 59 | 36712 | 226.965 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 101210 | 48.571 | ug/l | 91 |
| 13) Acrolein | 3.665 | 56 | 41887 | 308.240 | ug/l | 97 |
| 14) Allyl chloride | 4.391 | 41 | 194056 | 48.159 | ug/l | 94 |
| 15) Acrylonitrile | 5.067 | 53 | 127193 | 257.993 | ug/l | 100 |
| 16) Acetone | 3.879 | 43 | 156029 | 296.575 | ug/l | 93 |
| 17) Carbon Disulfide | 4.116 | 76 | 334637 | 47.667 | ug/l | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 62427 | 50.904 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 276461 | 51.073 | ug/l | 100 |
| 20) Methylene Chloride | 4.628 | 84 | 108400 | 48.655 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 111034 | 47.976 | ug/l | 95 |
| 22) Diisopropyl ether | 6.025 | 45 | 379634 | 47.808 | ug/l | 98 |
| 23) Vinyl Acetate | 5.970 | 43 | 1113464 | 250.913 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 215234 | 48.013 | ug/l | 99 |
| 25) 2-Butanone | 6.902 | 43 | 194697 | 287.460 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 191447 | 51.670 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 127322 | 49.947 | ug/l | 98 |
| 28) Bromochloromethane | 7.250 | 49 | 88109 | 46.699 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.268 | 42 | 109090 | 269.487 | ug/l | 98 |
| 30) Chloroform | 7.427 | 83 | 210274 | 48.574 | ug/l | 99 |
| 31) Cyclohexane | 7.707 | 56 | 194230 | 47.477 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 199027 | 52.361 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 159083 | 51.736 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 78302 | 55.589 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 181264 | 56.460 | ug/l | 97 |
| 39) Methylcyclohexane | 9.115 | 83 | 198413 | 51.560 | ug/l | 96 |
| 40) Benzene | 8.085 | 78 | 464288 | 51.524 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 45520 | 56.796 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 132760 | 54.582 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.201 | 43 | 152400 | 55.636 | ug/l | # | 90 |
| 44) Trichloroethene | 8.872 | 130 | 109148 | 51.123 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 109335 | 50.856 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 58050 | 52.680 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 159849 | 52.549 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.225 | 41 | 72620 | 55.450 | ug/l | | 96 |
| 49) 1,4-Dioxane | 9.237 | 88 | 11733 | 1034.957 | ug/l | # | 88 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 382611 | 275.235 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 284192 | 51.599 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 150684 | 52.384 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 175444 | 53.280 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 73941 | 50.551 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.444 | 69 | 117267 | 53.384 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 138386 | 52.644 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 287613 | 276.129 | ug/l | | 98 |
| 59) 2-Hexanone | 10.762 | 43 | 289969 | 294.578 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 100432 | 53.270 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 69299 | 51.128 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 95629 | 50.259 | ug/l | | 97 |
| 65) Chlorobenzene | 11.444 | 112 | 292282 | 49.663 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 101973 | 51.867 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 554988 | 51.115 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.633 | 106 | 402780 | 102.989 | ug/l | | 97 |
| 69) o-Xylene | 11.956 | 106 | 190779 | 51.431 | ug/l | | 97 |
| 70) Styrene | 11.975 | 104 | 324962 | 52.727 | ug/l | | 98 |
| 71) Bromoform | 12.139 | 173 | 56258 | 54.905 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 517205 | 50.117 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 134142 | 53.787 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 85136 | 51.044 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 63029m | 54.892 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 108458 | 50.161 | ug/l | | 97 |
| 78) n-propylbenzene | 12.603 | 91 | 622006 | 50.221 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 352846 | 49.548 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 423200 | 50.741 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 31947 | 54.517 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 360361 | 49.033 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.005 | 119 | 377510 | 51.291 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 413969 | 50.063 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.182 | 105 | 539489 | 46.494 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 447545 | 49.885 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 213276 | 48.784 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 207020 | 49.561 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.627 | 91 | 426701 | 49.666 | ug/l | | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 85124 | 49.160 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 184340 | 50.608 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 13654 | 49.889 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 112273 | 50.977 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 69051 | 51.363 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 205233 | 54.108 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 93604 | 49.707 | ug/l | | 99 |

Sample Results: **VY020373.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

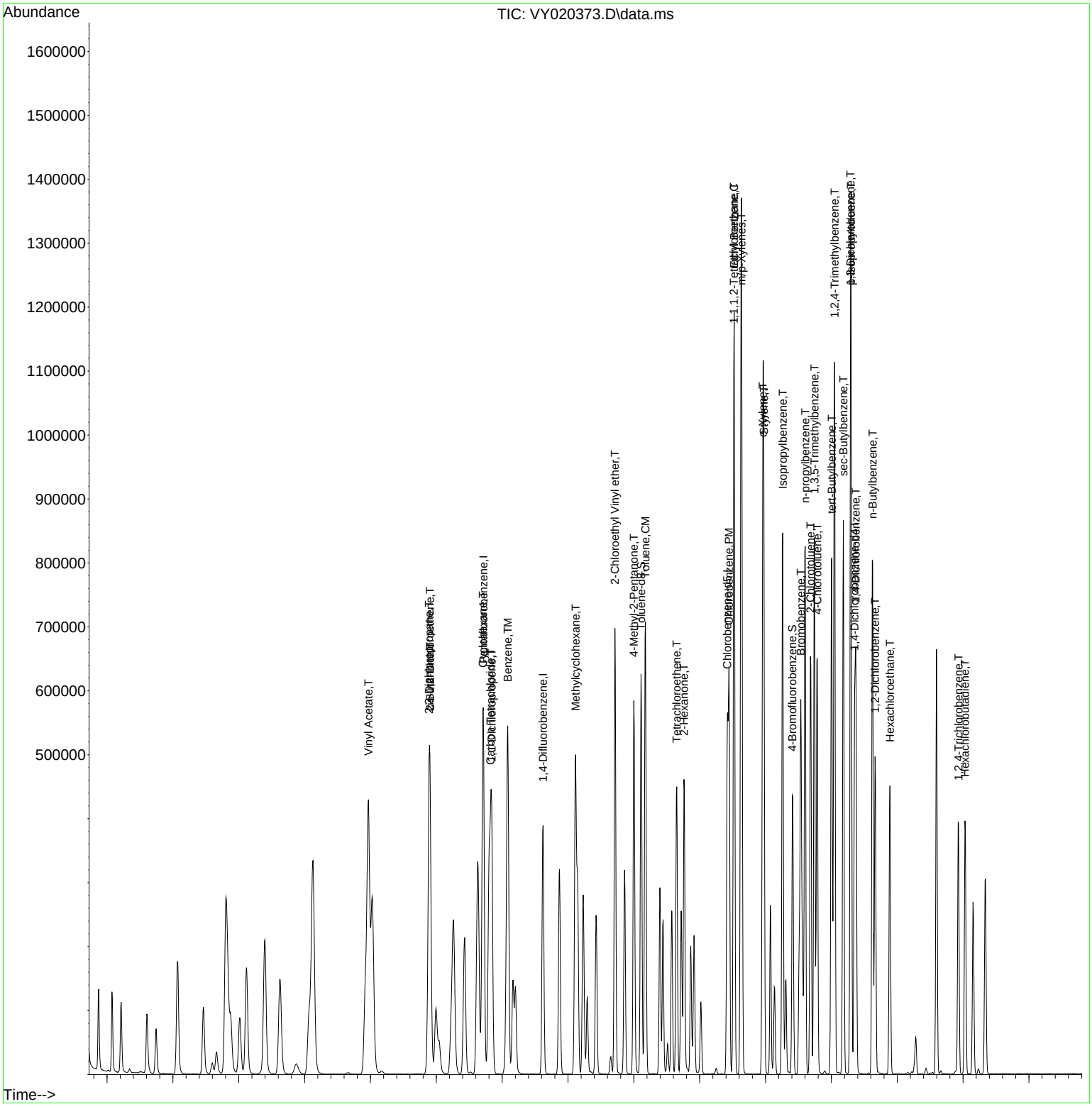
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Sample Results: **VY020373.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.485 | 0.554 | -14.2 | 103 | 0.00 |
| 3 | P | Chloromethane | 0.735 | 0.578 | 21.4 | 71 | 0.00 |
| 4 | C | Vinyl Chloride | 0.666 | 0.567 | 14.9# | 77 | 0.00 |
| 5 | T | Bromomethane | 0.333 | 0.304 | 8.7 | 82 | 0.00 |
| 6 | T | Chloroethane | 0.388 | 0.335 | 13.7 | 76 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.925 | 0.962 | -4.0 | 87 | 0.00 |
| 8 | T | Diethyl Ether | 0.292 | 0.290 | 0.7 | 80 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.533 | 3.3 | 76 | 0.00 |
| 10 | T | Methyl Iodide | 0.738 | 0.702 | 4.9 | 71 | 0.01 |
| 11 | T | Tert butyl alcohol | 0.044 | 0.038 | 13.6 | 89 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.545 | 0.530 | 2.8# | 76 | 0.00 |
| 13 | T | Acrolein | 0.036 | 0.044 | -22.2 | 102 | 0.00 |
| 14 | T | Allyl chloride | 1.055 | 1.016 | 3.7 | 90 | 0.00 |
| 15 | T | Acrylonitrile | 0.129 | 0.133 | -3.1 | 90 | 0.00 |
| 16 | T | Acetone | 0.138 | 0.163 | -18.1 | 86 | 0.00 |
| 17 | T | Carbon Disulfide | 1.838 | 1.752 | 4.7 | 71 | 0.00 |
| 18 | T | Methyl Acetate | 0.321 | 0.327 | -1.9 | 91 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.417 | 1.447 | -2.1 | 87 | 0.00 |
| 20 | T | Methylene Chloride | 0.583 | 0.567 | 2.7 | 84 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.606 | 0.581 | 4.1 | 81 | 0.00 |
| 22 | T | Diisopropyl ether | 2.079 | 1.987 | 4.4 | 83 | 0.00 |
| 23 | T | Vinyl Acetate | 1.162 | 1.166 | -0.3 | 85 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.173 | 1.127 | 3.9 | 83 | 0.00 |
| 25 | T | 2-Butanone | 0.177 | 0.204 | -15.3 | 95 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.970 | 1.002 | -3.3 | 88 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.667 | 0.667 | 0.0 | 82 | 0.00 |
| 28 | T | Bromochloromethane | 0.494 | 0.461 | 6.7 | 76 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.106 | 0.114 | -7.5 | 90 | 0.00 |
| 30 | C | Chloroform | 1.133 | 1.101 | 2.8# | 75 | 0.00 |
| 31 | T | Cyclohexane | 1.071 | 1.017 | 5.0 | 83 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.995 | 1.042 | -4.7 | 88 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.574 | 0.598 | -4.2 | 79 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 75 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.321 | 0.316 | 1.6 | 73 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.490 | 0.507 | -3.5 | 83 | 0.00 |
| 37 | T | Ethyl Acetate | 0.224 | 0.249 | -11.2 | 88 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.511 | 0.577 | -12.9 | 90 | 0.00 |
| 39 | T | Methylcyclohexane | 0.613 | 0.632 | -3.1 | 81 | 0.00 |
| 40 | TM | Benzene | 1.435 | 1.479 | -3.1 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 0.128 | 0.145 | -13.3 | 92 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.387 | 0.423 | -9.3 | 87 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.436 | 0.485 | -11.2 | 86 | 0.00 |
| 44 | TM | Trichloroethene | 0.340 | 0.348 | -2.4 | 81 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.342 | 0.348 | -1.8# | 82 | 0.00 |
| 46 | T | Dibromomethane | 0.175 | 0.185 | -5.7 | 80 | 0.00 |
| 47 | T | Bromodichloromethane | 0.484 | 0.509 | -5.2 | 77 | 0.00 |
| 48 | T | Methyl methacrylate | 0.209 | 0.231 | -10.5 | 86 | 0.00 |

Sample Results: **VY020373.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 80 | 0.00 |
| 50 | S | Toluene-d8 | 1.263 | 1.242 | 1.7 | 66 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.221 | 0.244 | -10.4 | 74 | 0.00 |
| 52 | CM | Toluene | 0.877 | 0.905 | -3.2# | 80 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.458 | 0.480 | -4.8 | 80 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.524 | 0.559 | -6.7 | 83 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.233 | 0.236 | -1.3 | 80 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.350 | 0.374 | -6.9 | 79 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.419 | 0.441 | -5.3 | 79 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.166 | 0.183 | -10.2 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 0.157 | 0.185 | -17.8 | 81 | 0.00 |
| 60 | T | Dibromochloromethane | 0.300 | 0.320 | -6.7 | 78 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.216 | 0.221 | -2.3 | 76 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.406 | 0.415 | -2.2 | 72 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 73 | 0.00 |
| 64 | T | Tetrachloroethene | 0.360 | 0.362 | -0.6 | 80 | 0.00 |
| 65 | PM | Chlorobenzene | 1.115 | 1.107 | 0.7 | 71 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.372 | 0.386 | -3.8 | 76 | 0.00 |
| 67 | C | Ethyl Benzene | 2.057 | 2.103 | -2.2# | 75 | 0.00 |
| 68 | T | m/p-Xylenes | 0.741 | 0.763 | -3.0 | 79 | 0.00 |
| 69 | T | o-Xylene | 0.703 | 0.723 | -2.8 | 79 | 0.00 |
| 70 | T | Styrene | 1.167 | 1.231 | -5.5 | 80 | 0.00 |
| 71 | P | Bromoform | 0.194 | 0.213 | -9.8 | 83 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 73 | T | Isopropylbenzene | 4.236 | 4.245 | -0.2 | 80 | 0.00 |
| 74 | T | N-amyl acetate | 1.024 | 1.101 | -7.5 | 82 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.685 | 0.699 | -2.0 | 78 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.471 | 0.517 | -9.8 | 82 | 0.00 |
| 77 | T | Bromobenzene | 0.887 | 0.890 | -0.3 | 79 | 0.00 |
| 78 | T | n-propylbenzene | 5.083 | 5.106 | -0.5 | 80 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.923 | 2.896 | 0.9 | 82 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.423 | 3.474 | -1.5 | 83 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.241 | 0.262 | -8.7 | 83 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.016 | 2.958 | 1.9 | 82 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.021 | 3.099 | -2.6 | 82 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.394 | 3.398 | -0.1 | 81 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.762 | 4.428 | 7.0 | 71 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.682 | 3.674 | 0.2 | 78 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.794 | 1.751 | 2.4 | 77 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.714 | 1.699 | 0.9 | 80 | 0.00 |
| 89 | T | n-Butylbenzene | 3.526 | 3.503 | 0.7 | 78 | 0.00 |
| 90 | T | Hexachloroethane | 0.711 | 0.699 | 1.7 | 74 | 0.01 |
| 91 | T | 1,2-Dichlorobenzene | 1.495 | 1.513 | -1.2 | 80 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.112 | 0.0 | 77 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.904 | 0.922 | -2.0 | 84 | 0.01 |
| 94 | T | Hexachlorobutadiene | 0.552 | 0.567 | -2.7 | 86 | 0.00 |
| 95 | T | Naphthalene | 1.557 | 1.685 | -8.2 | 84 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.773 | 0.768 | 0.6 | 84 | 0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY020373.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 84 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 57.038 | -14.1 | 103 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 44.989 | 10.0 | 71 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 42.554 | 14.9# | 77 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 45.767 | 8.5 | 82 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 43.174 | 13.7 | 76 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.979 | -4.0 | 87 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.722 | 0.6 | 80 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.332 | 3.3 | 76 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 47.547 | 4.9 | 71 | 0.01 |
| 11 | T | Tert butyl alcohol | 250.000 | 226.965 | 9.2 | 89 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 48.571 | 2.9# | 76 | 0.00 |
| 13 | T | Acrolein | 250.000 | 308.240 | -23.3 | 102 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 48.159 | 3.7 | 90 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 257.993 | -3.2 | 90 | 0.00 |
| 16 | T | Acetone | 250.000 | 296.575 | -18.6 | 86 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 47.667 | 4.7 | 71 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.904 | -1.8 | 91 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 51.073 | -2.1 | 87 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 48.655 | 2.7 | 84 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 47.976 | 4.0 | 81 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 47.808 | 4.4 | 83 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 250.913 | -0.4 | 85 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.013 | 4.0 | 83 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 287.460 | -15.0 | 95 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.670 | -3.3 | 88 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.947 | 0.1 | 82 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 46.699 | 6.6 | 76 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 269.487 | -7.8 | 90 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.574 | 2.9# | 75 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.477 | 5.0 | 83 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.361 | -4.7 | 88 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.056 | -4.1 | 79 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 75 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.217 | 1.6 | 73 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 51.736 | -3.5 | 83 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.589 | -11.2 | 88 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 56.460 | -12.9 | 90 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.560 | -3.1 | 81 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.524 | -3.0 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 56.796 | -13.6 | 92 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 54.582 | -9.2 | 87 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.636 | -11.3 | 86 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.123 | -2.2 | 81 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.856 | -1.7# | 82 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 52.680 | -5.4 | 80 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.549 | -5.1 | 77 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.450 | -10.9 | 86 | 0.00 |

Sample Results: **VY020373.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1034.957 | -3.5 | 80 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.159 | 1.7 | 66 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 275.235 | -10.1 | 74 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.599 | -3.2# | 80 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.384 | -4.8 | 80 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.280 | -6.6 | 83 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.551 | -1.1 | 80 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.384 | -6.8 | 79 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.644 | -5.3 | 79 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 276.129 | -10.5 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 294.578 | -17.8 | 81 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 53.270 | -6.5 | 78 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.128 | -2.3 | 76 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.051 | -2.1 | 72 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 73 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.259 | -0.5 | 80 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.663 | 0.7 | 71 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.867 | -3.7 | 76 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.115 | -2.2# | 75 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 102.989 | -3.0 | 79 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.431 | -2.9 | 79 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.727 | -5.5 | 80 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.905 | -9.8 | 83 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 81 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.117 | -0.2 | 80 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 53.787 | -7.6 | 82 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.044 | -2.1 | 78 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 54.892 | -9.8 | 82 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.161 | -0.3 | 79 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.221 | -0.4 | 80 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.548 | 0.9 | 82 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.741 | -1.5 | 83 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.517 | -9.0 | 83 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.033 | 1.9 | 82 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.291 | -2.6 | 82 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 50.063 | -0.1 | 81 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 46.494 | 7.0 | 71 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 49.885 | 0.2 | 78 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.784 | 2.4 | 77 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.561 | 0.9 | 80 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.666 | 0.7 | 78 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.160 | 1.7 | 74 | 0.01 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.608 | -1.2 | 80 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.889 | 0.2 | 77 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 50.977 | -2.0 | 84 | 0.01 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.363 | -2.7 | 86 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 54.108 | -8.2 | 84 | 0.00 |

Sample Results: **VY020373.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.707 | 0.6 | 84 | 0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# QC SAMPLE DATA

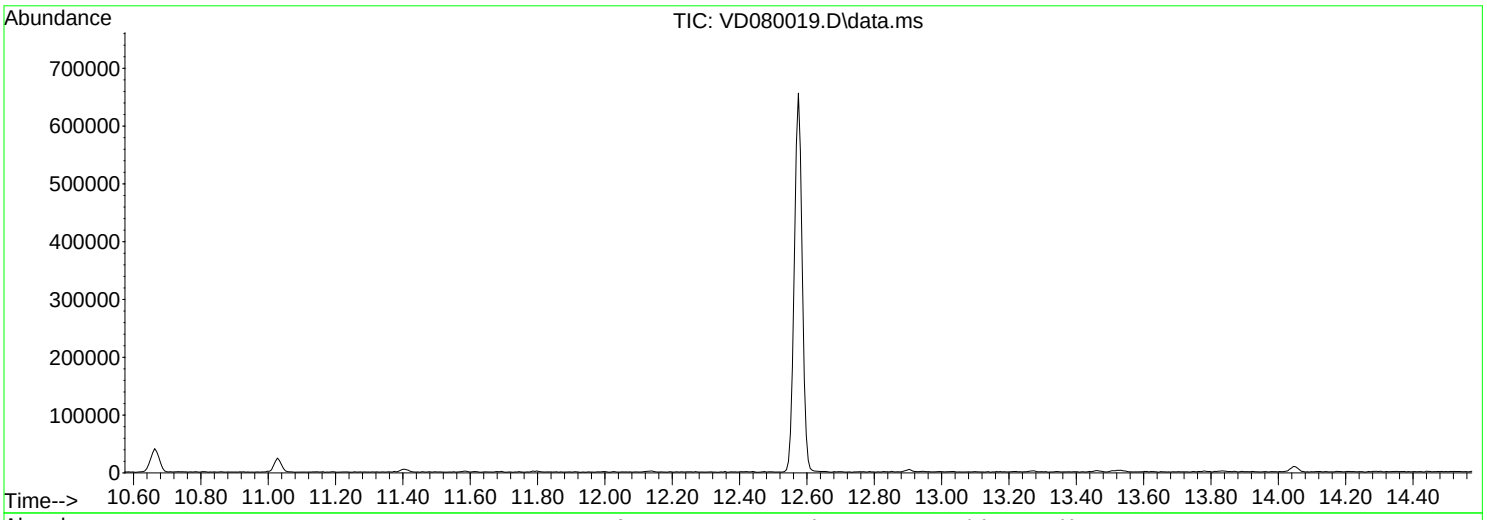
Sample Results: **VD080019.D**

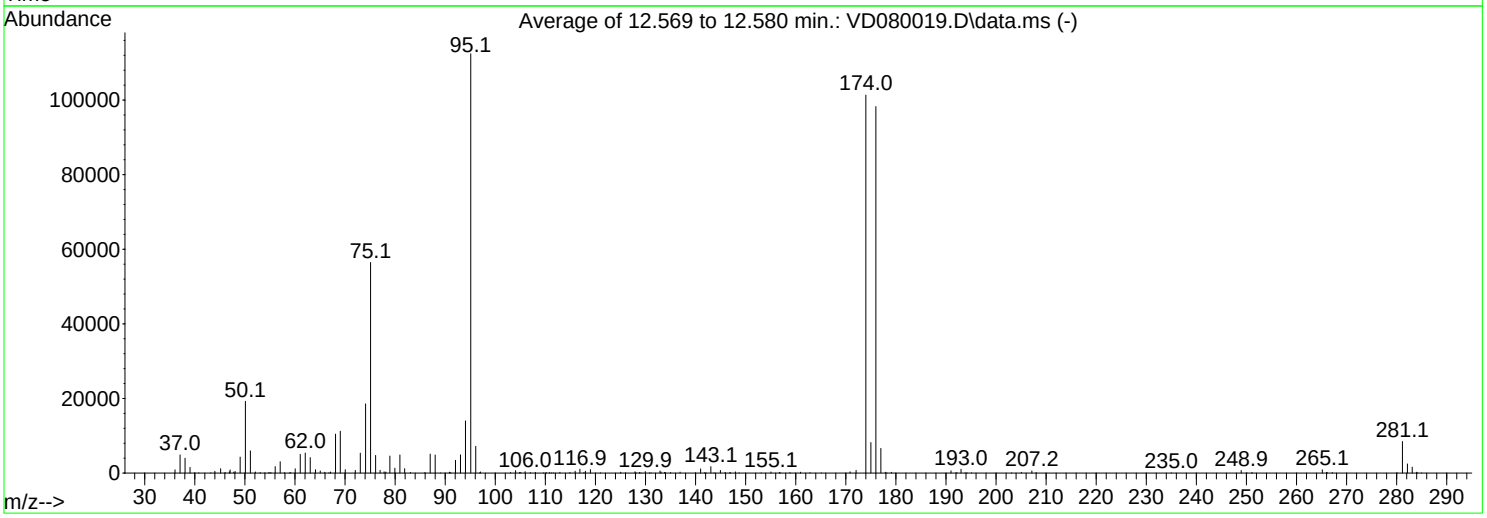
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080019.D
Acq On : 15 Nov 2024 09:14
Operator : RP/MD
Sample : BFB
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Title : SW846 8260
Last Update : Fri Nov 15 06:28:05 2024




AutoFind: Scans 1867, 1868, 1869; Background Corrected with Scan 1858

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 17.1 | 19237 | PASS |
| 75 | 95 | 30 | 60 | 50.2 | 56475 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 112421 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 7176 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 90.2 | 101355 | PASS |
| 175 | 174 | 5 | 9 | 8.1 | 8188 | PASS |
| 176 | 174 | 95 | 101 | 97.0 | 98264 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 6617 | PASS |

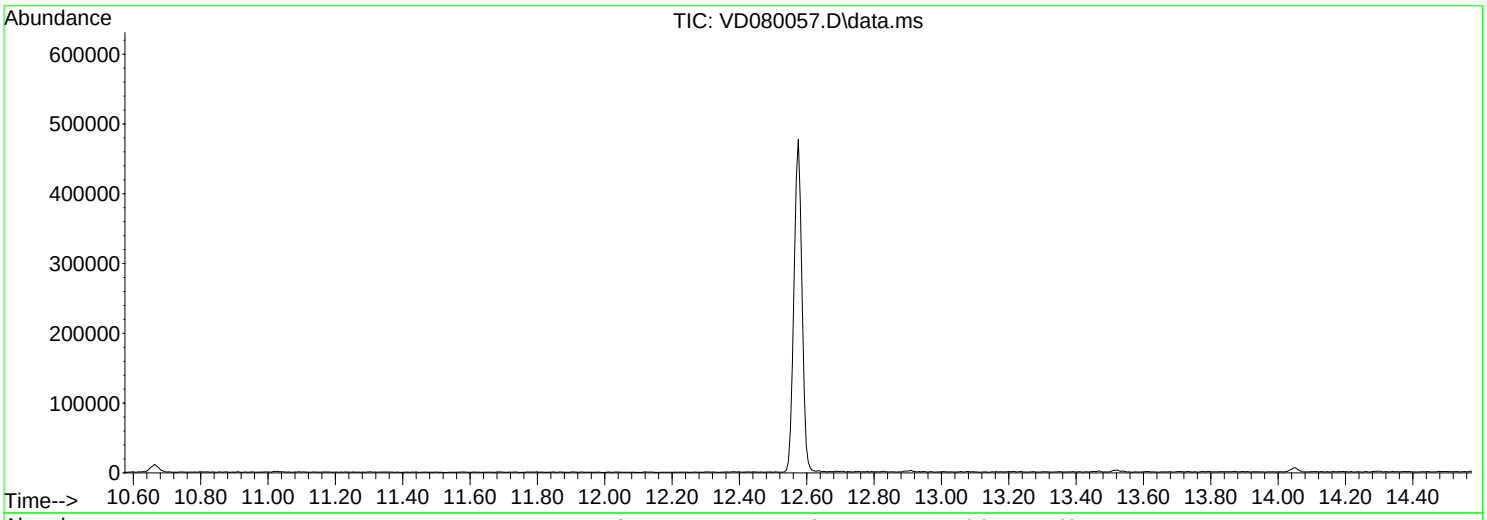
Sample Results: **VD080057.D**

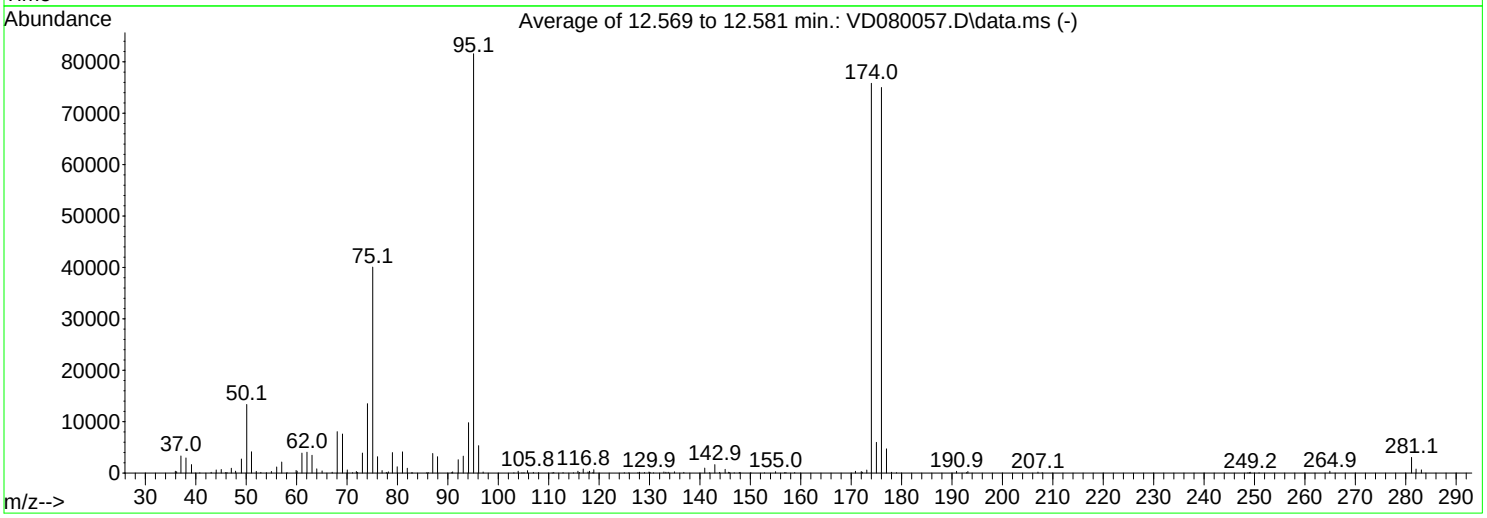
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080057.D
Acq On : 18 Nov 2024 09:21
Operator : RP/MD
Sample : BFB
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Title : SW846 8260
Last Update : Fri Nov 15 16:25:47 2024




AutoFind: Scans 1867, 1868, 1869; Background Corrected with Scan 1859

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.4 | 13343 | PASS |
| 75 | 95 | 30 | 60 | 49.1 | 40069 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 81573 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 5338 | PASS |
| 173 | 174 | 0.00 | 2 | 0.8 | 585 | PASS |
| 174 | 95 | 50 | 100 | 93.0 | 75827 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 5977 | PASS |
| 176 | 174 | 95 | 101 | 98.9 | 75008 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 4717 | PASS |

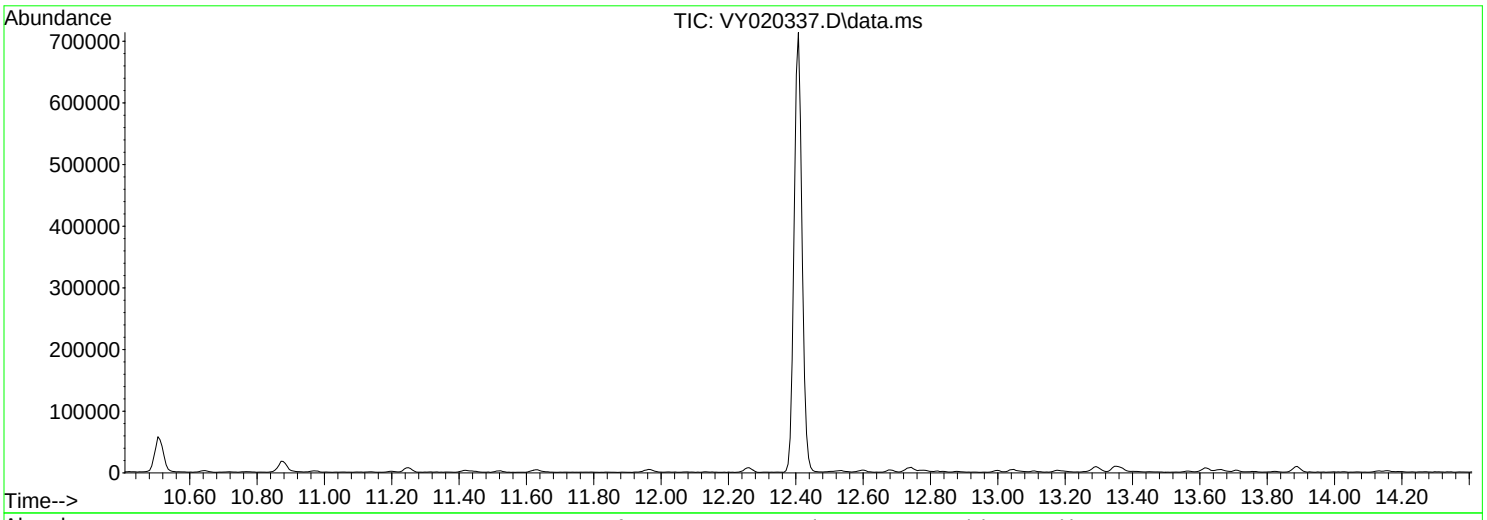
Sample Results: **VY020337.D**

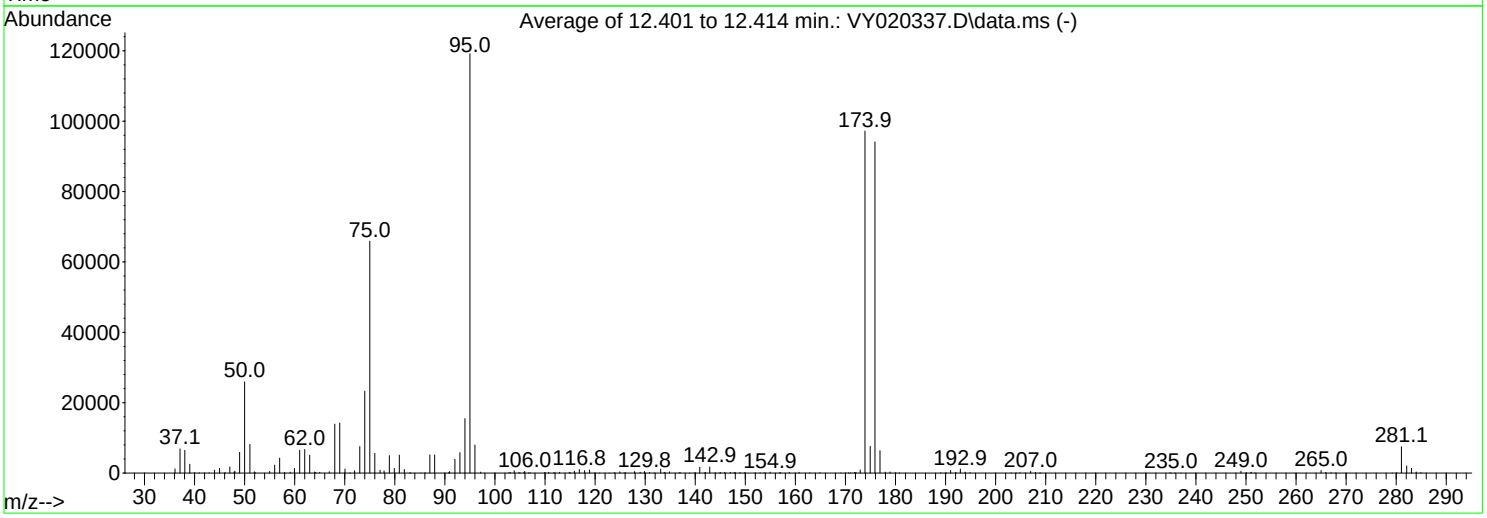
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020337.D
Acq On : 19 Nov 2024 14:40
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Title : SW846 8260
Last Update : Wed Nov 20 04:38:24 2024




AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.7 | 25915 | PASS |
| 75 | 95 | 30 | 60 | 55.3 | 65907 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 119168 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 7986 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 895 | PASS |
| 174 | 95 | 50 | 100 | 81.6 | 97187 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 7585 | PASS |
| 176 | 174 | 95 | 101 | 96.8 | 94104 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 6392 | PASS |

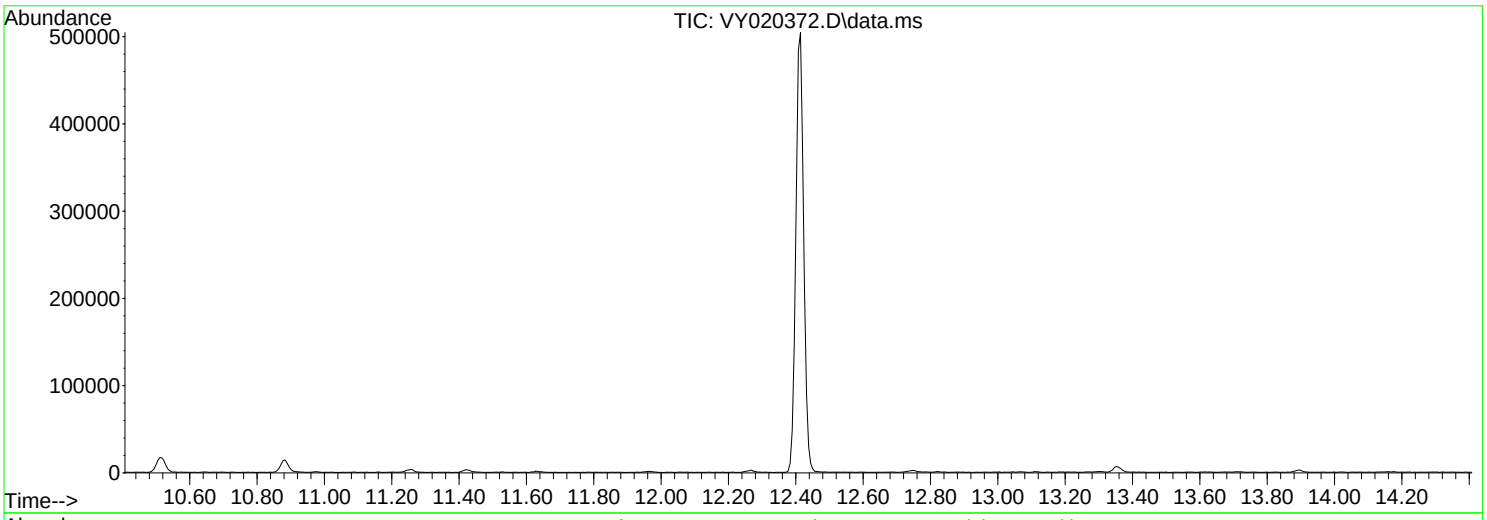
Sample Results: **VY020372.D**

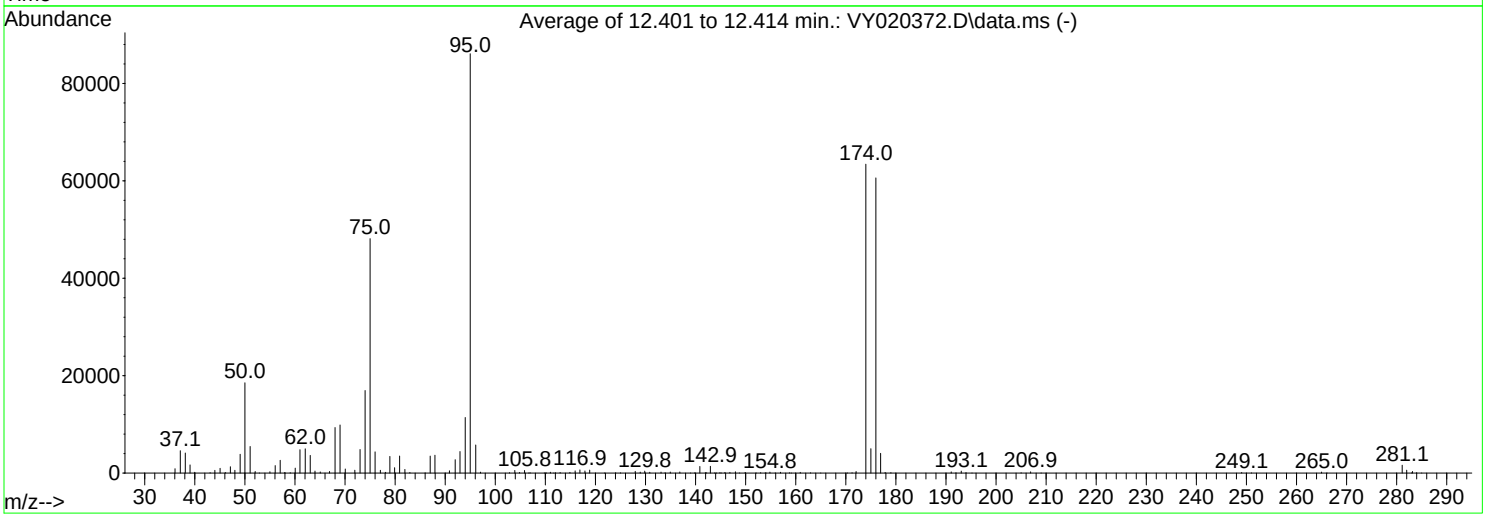
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020372.D
Acq On : 21 Nov 2024 08:32
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Title : SW846 8260
Last Update : Wed Nov 20 04:38:24 2024




AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1745

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.5 | 18537 | PASS |
| 75 | 95 | 30 | 60 | 55.9 | 48139 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 86101 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 5771 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 73.7 | 63419 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 5005 | PASS |
| 176 | 174 | 95 | 101 | 95.6 | 60600 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 4051 | PASS |

Raw Data: **VD080059.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Webster School | Date Received: | |
| Client Sample ID: | VD1118SBL01 | SDG No.: | P4852 |
| Lab Sample ID: | VD1118SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080059.D | 1 | | 11/18/24 10:27 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.10 | U | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.5 | | 50 - 163 | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.9 | | 54 - 147 | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 44.4 | | 58 - 134 | 89% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 41.2 | | 29 - 146 | 82% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 176000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 295000 | 8.781 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 273000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 122000 | 13.516 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Quant Time: Nov 19 04:43:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

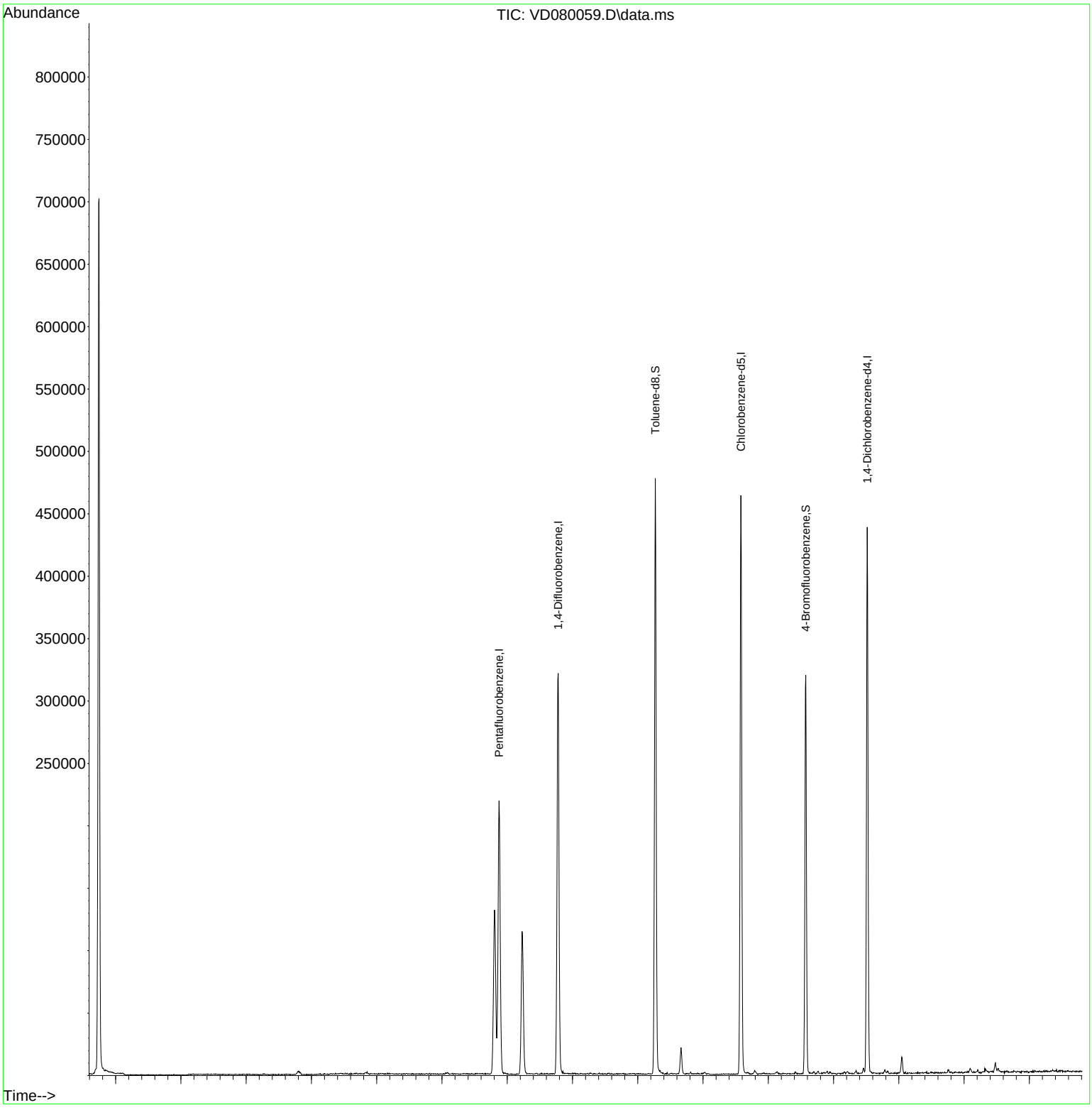
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 175706 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 294729 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 273326 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 122131 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 89573 | 49.513 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 99.020% | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 95998 | 48.941 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 97.880% | | |
| 50) Toluene-d8 | 10.269 | 98 | 328392 | 44.420 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 88.840% | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 99895 | 41.185 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 82.360% | | |
| Target Compounds | | | | | | Qvalue |

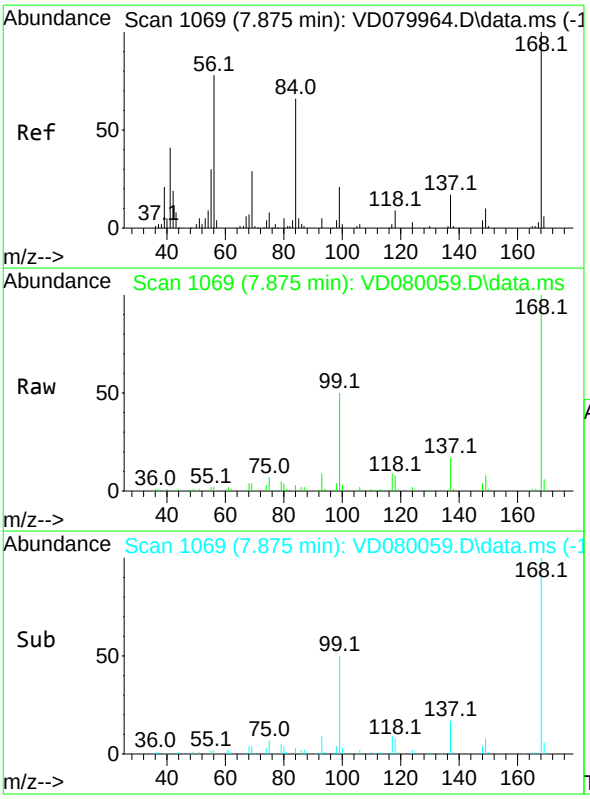
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Quant Time: Nov 19 04:43:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



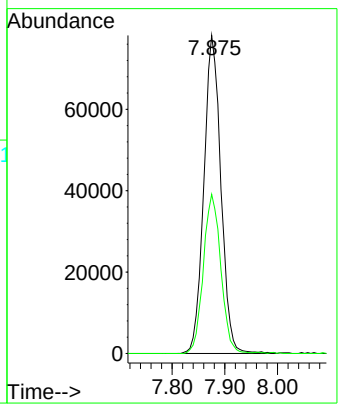


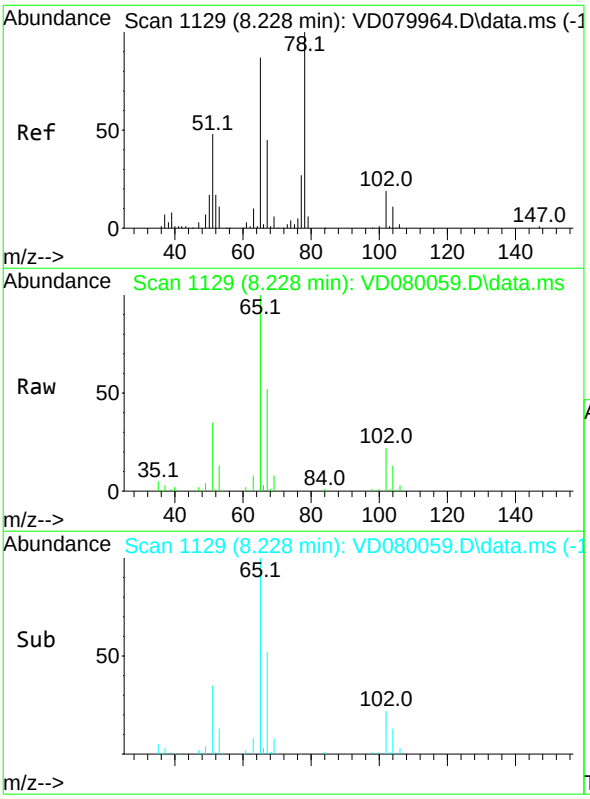

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Tgt Ion:168 Resp: 175706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.0 | 46.0 | 69.0 |

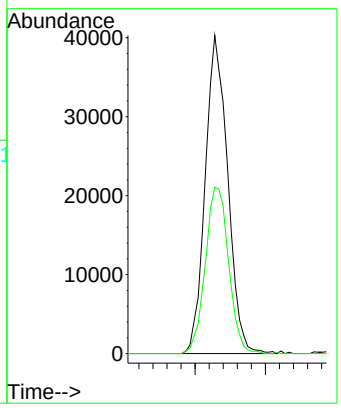


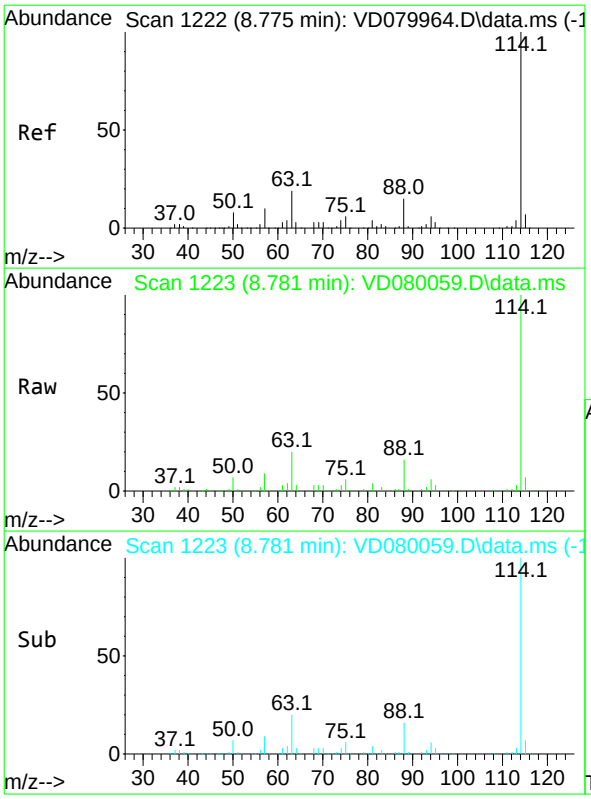




#33
1,2-Dichloroethane-d4
Concen: 49.513 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion: 65 Resp: 89573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.3 | 0.0 | 109.2 |



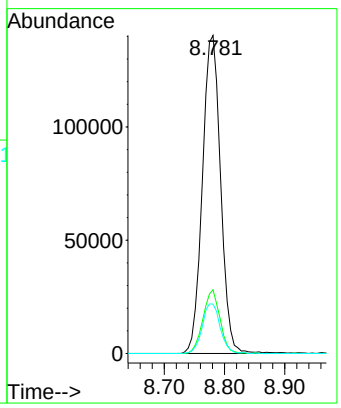


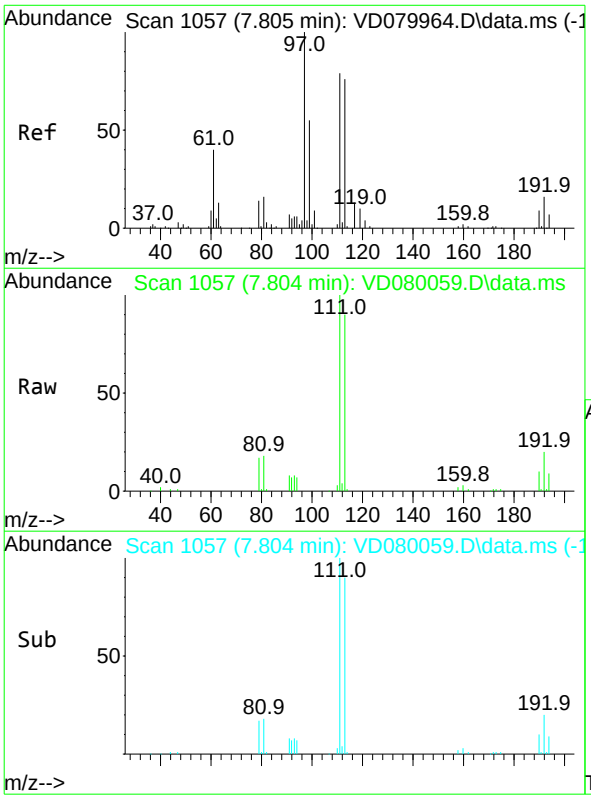

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 12
Delta R.T. 0.006 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Tgt Ion:114 Resp: 294729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.0 | 0.0 | 38.8 |
| 88 | 15.5 | 0.0 | 30.6 |

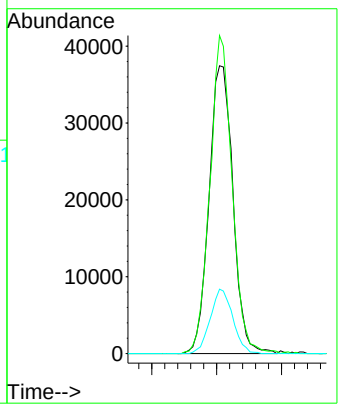


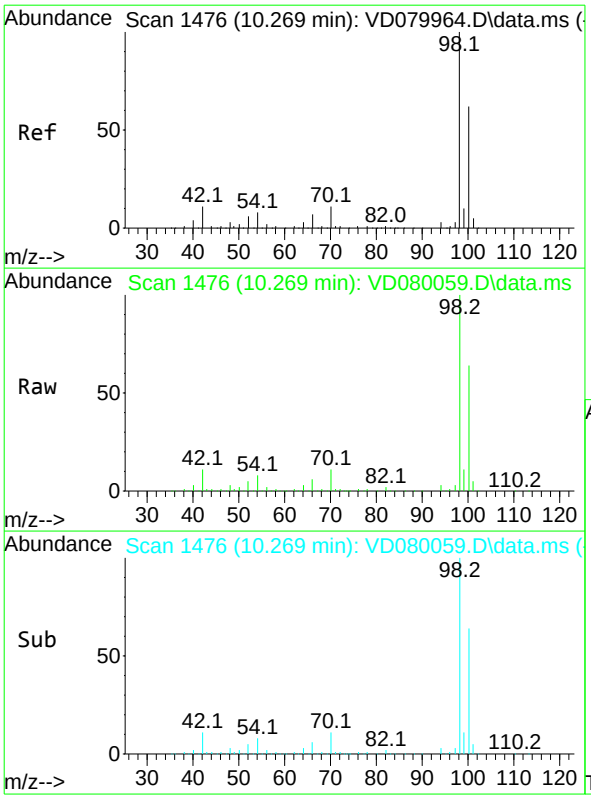




#35
Dibromofluoromethane
Concen: 48.941 ug/l
RT: 7.804 min Scan# 1057
Delta R.T. -0.001 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion:113 Resp: 95998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 82.5 | 123.7 |
| 192 | 21.1 | 16.6 | 25.0 |



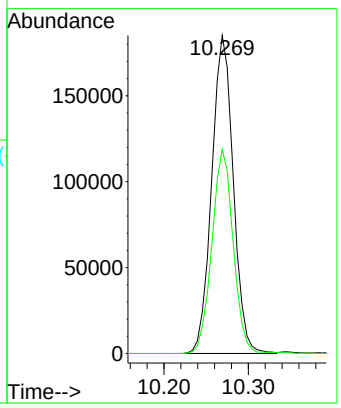


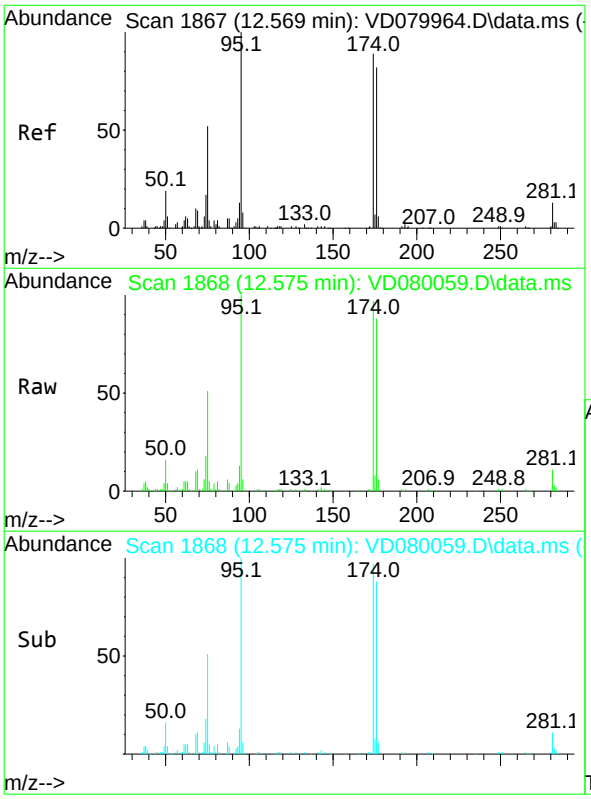

#50
Toluene-d8
Concen: 44.420 ug/l
RT: 10.269 min Scan# 14
Delta R.T. 0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Tgt Ion: 98 Resp: 328392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.5 | 50.2 | 75.4 |

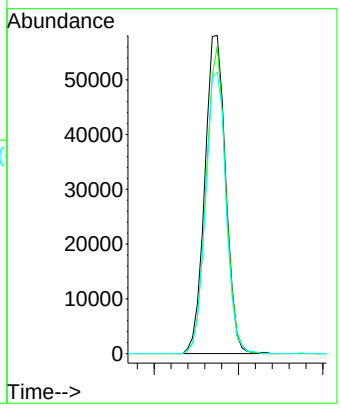


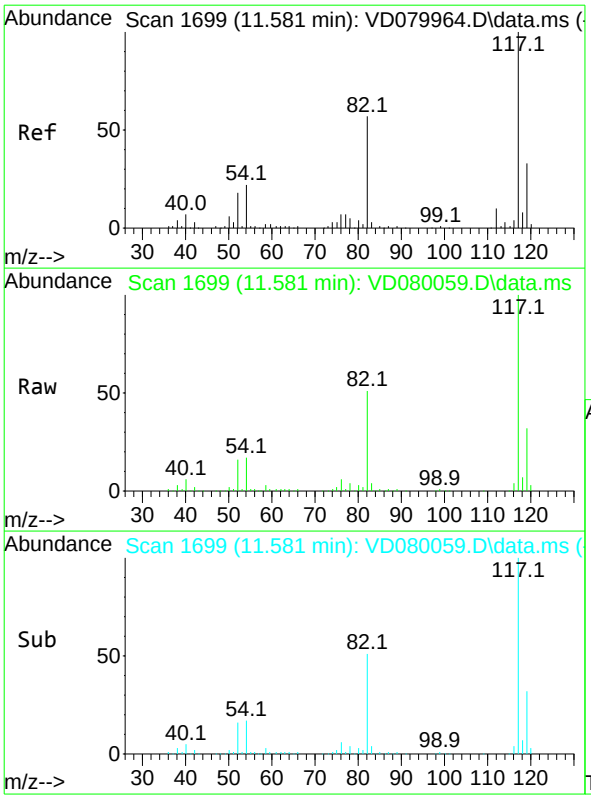




#62
4-Bromofluorobenzene
Concen: 41.185 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion: 95 Resp: 99895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 90.8 | 0.0 | 173.4 |
| 176 | 86.6 | 0.0 | 166.6 |



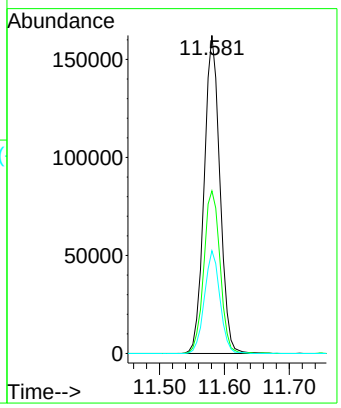


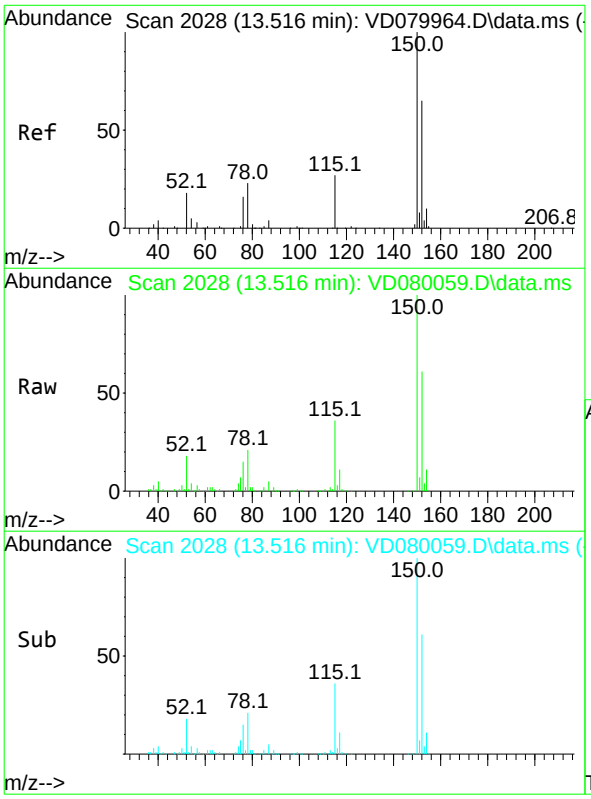

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 16
Delta R.T. -0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Tgt Ion:117 Resp: 273326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.1 | 45.8 | 68.6 |
| 119 | 32.3 | 26.2 | 39.2 |

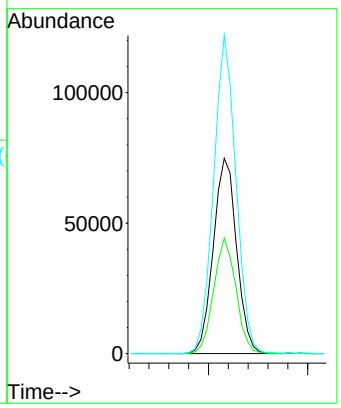



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion:152 Resp: 122131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.3 | 28.9 | 86.8 |
| 150 | 156.9 | 0.0 | 354.8 |



Raw Data: **VY020374.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Webster School | Date Received: | |
| Client Sample ID: | VY1121SBL01 | SDG No.: | P4852 |
| Lab Sample ID: | VY1121SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020374.D | 1 | | 11/21/24 09:59 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.10 | U | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.9 | | 50 - 163 | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.5 | | 54 - 147 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.2 | | 58 - 134 | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.3 | | 29 - 146 | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 140000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 271000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 245000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 89000 | 13.353 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

Quant Time: Nov 21 13:56:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 139506 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 270751 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 245370 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 89046 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 83114 | 51.857 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 103.720% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 84115 | 48.450 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 96.900% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 329763 | 48.218 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.440% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 104043 | 47.324 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 94.640% | | | |
| Target Compounds | | | | | | Qvalue |

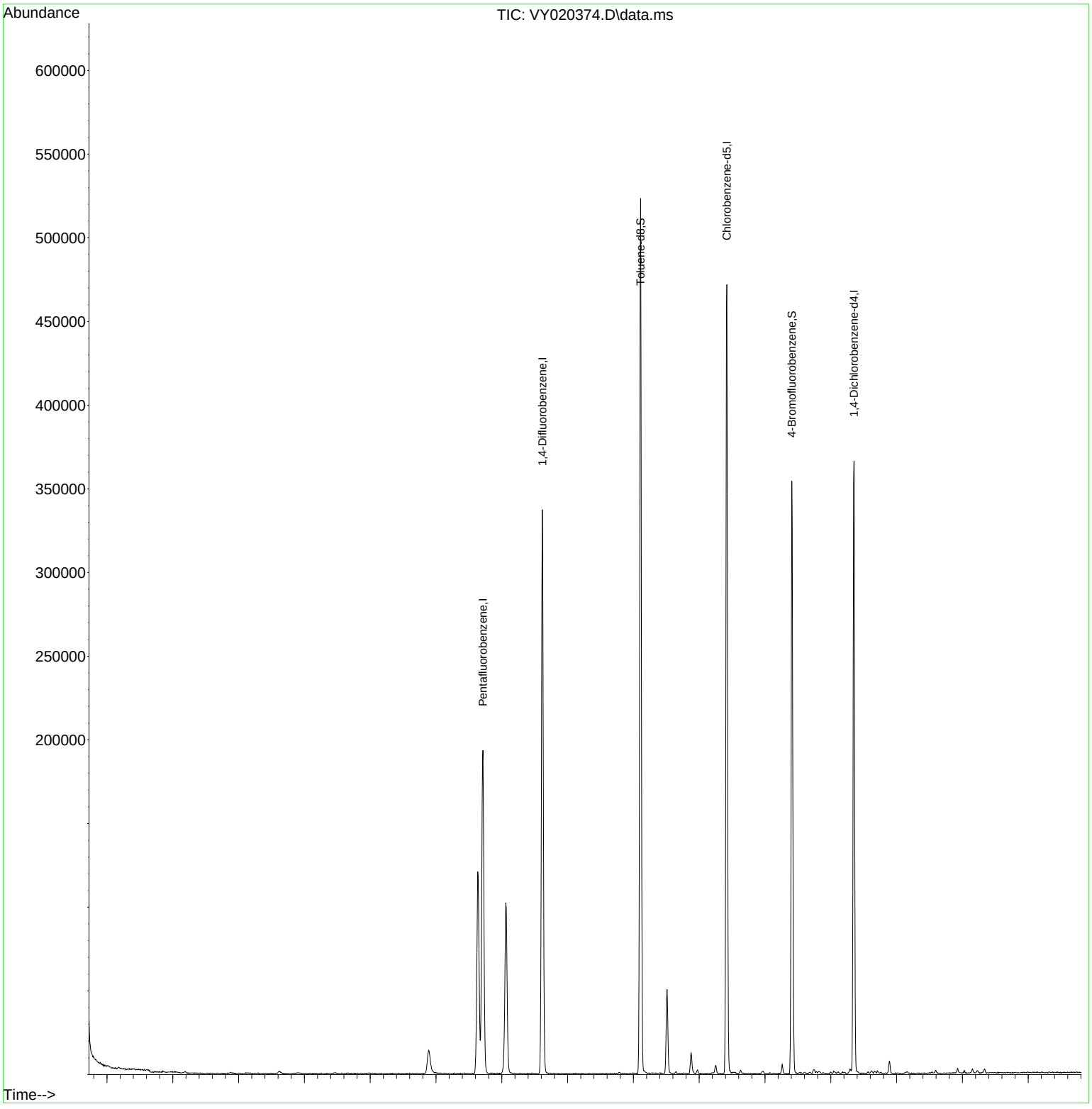
(#) = qualifier out of range (m) = manual integration (+) = signals summed

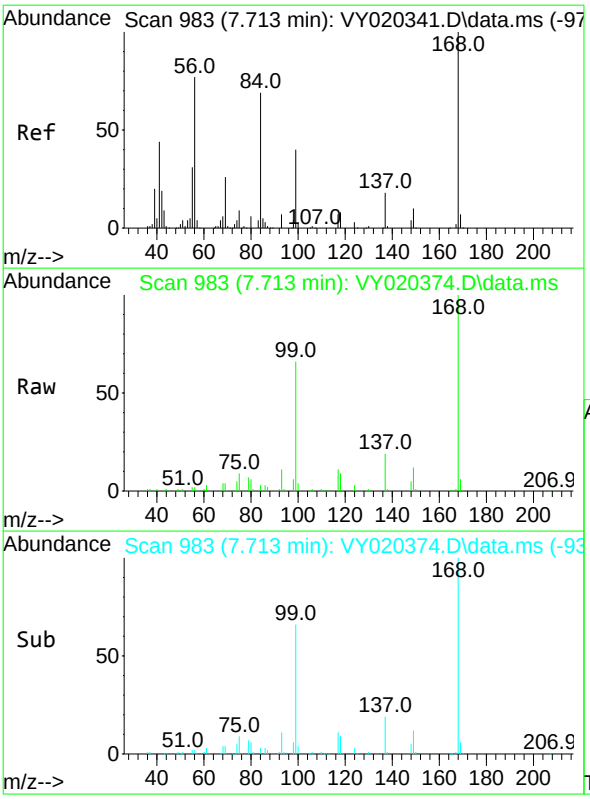
Sample Results: **VY020374.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

Quant Time: Nov 21 13:56:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



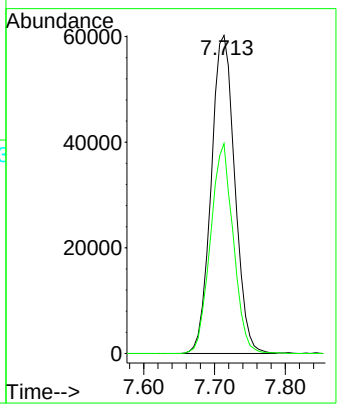


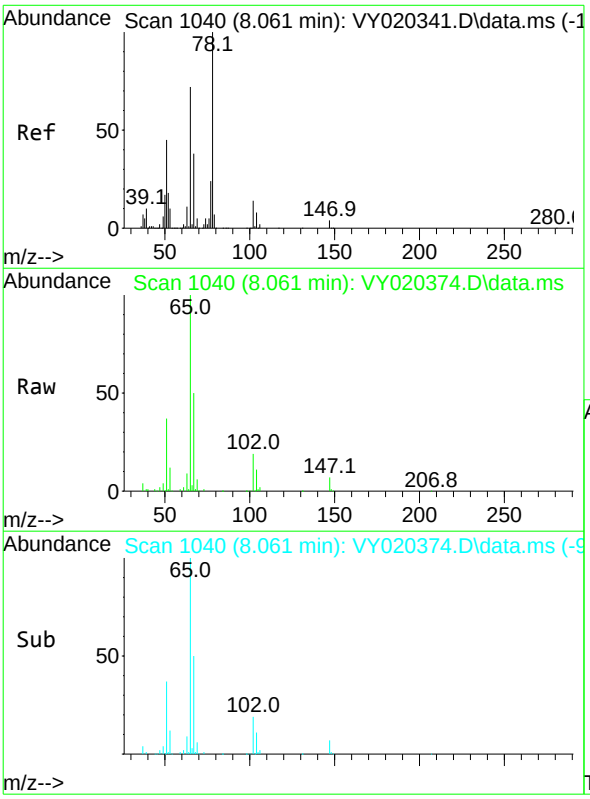

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

Tgt Ion:168 Resp: 139506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.0 | 46.6 | 69.8 |

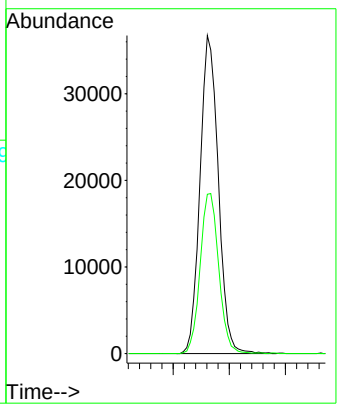


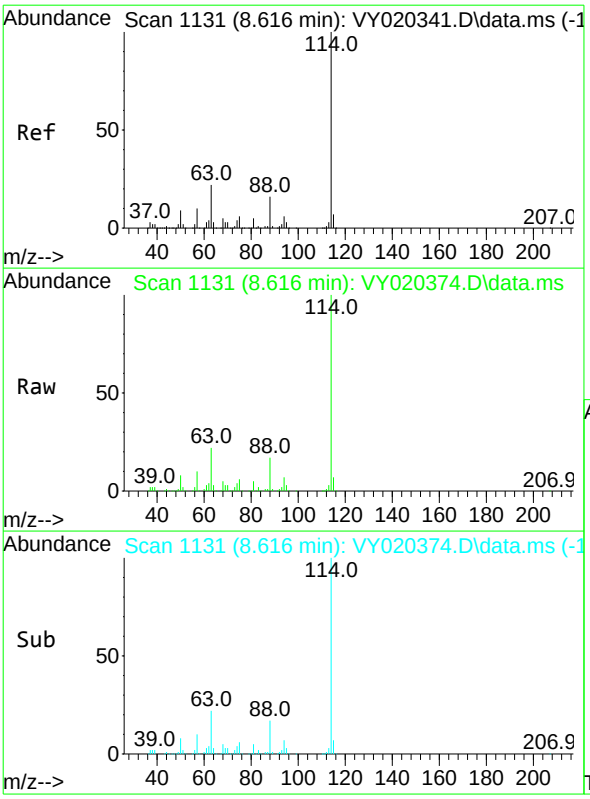




#33
1,2-Dichloroethane-d4
Concen: 51.857 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion: 65 Resp: 83114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 105.8 |



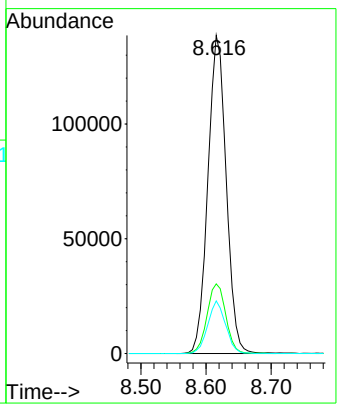


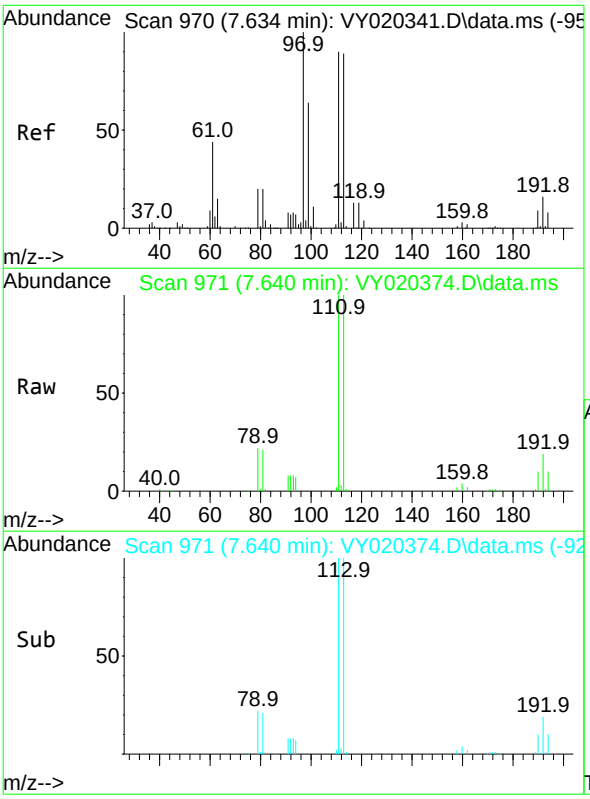

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

Tgt Ion:114 Resp: 270751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.9 | 0.0 | 44.8 |
| 88 | 16.5 | 0.0 | 32.0 |

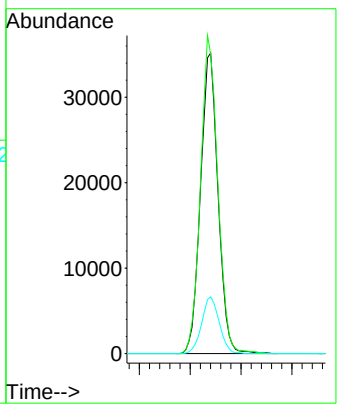


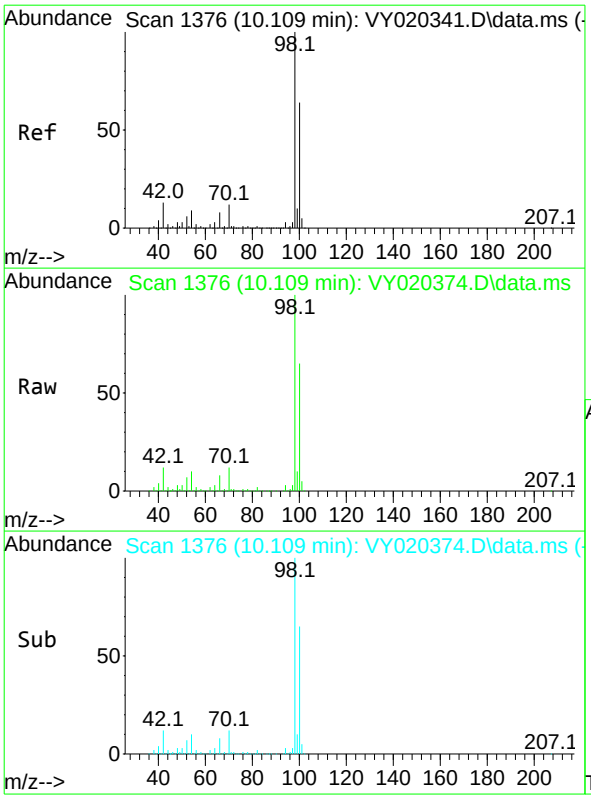




#35
Dibromofluoromethane
Concen: 48.450 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion:113 Resp: 84115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.4 | 81.4 | 122.0 |
| 192 | 18.9 | 15.1 | 22.7 |



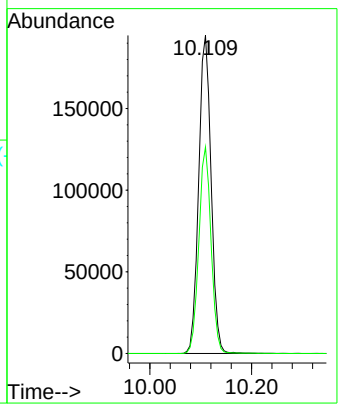


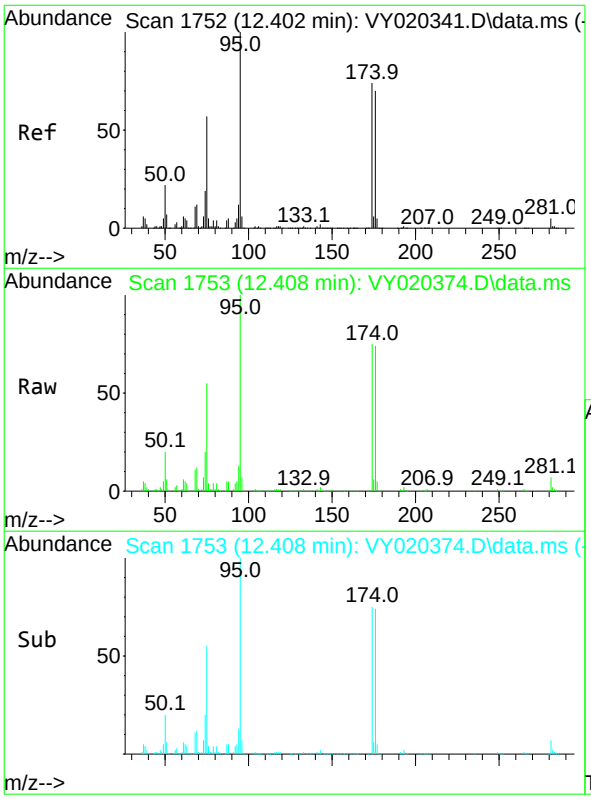

#50
Toluene-d8
Concen: 48.218 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

Tgt Ion: 98 Resp: 329763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.3 | 76.9 |

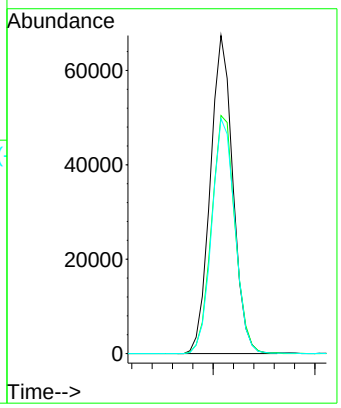


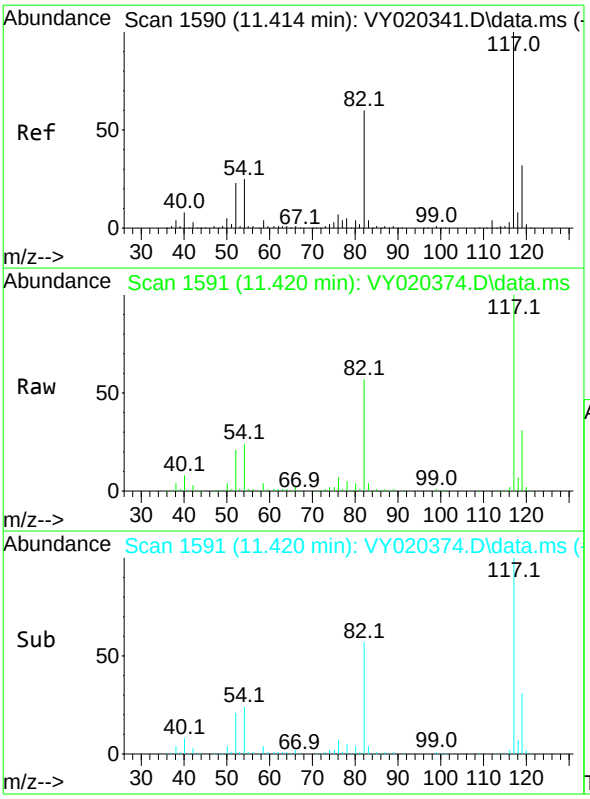




#62
4-Bromofluorobenzene
Concen: 47.324 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion: 95 Resp: 104043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.3 | 0.0 | 156.8 |
| 176 | 75.4 | 0.0 | 152.0 |



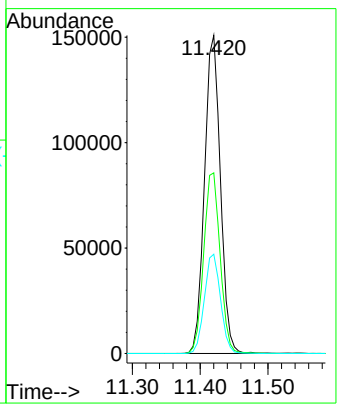


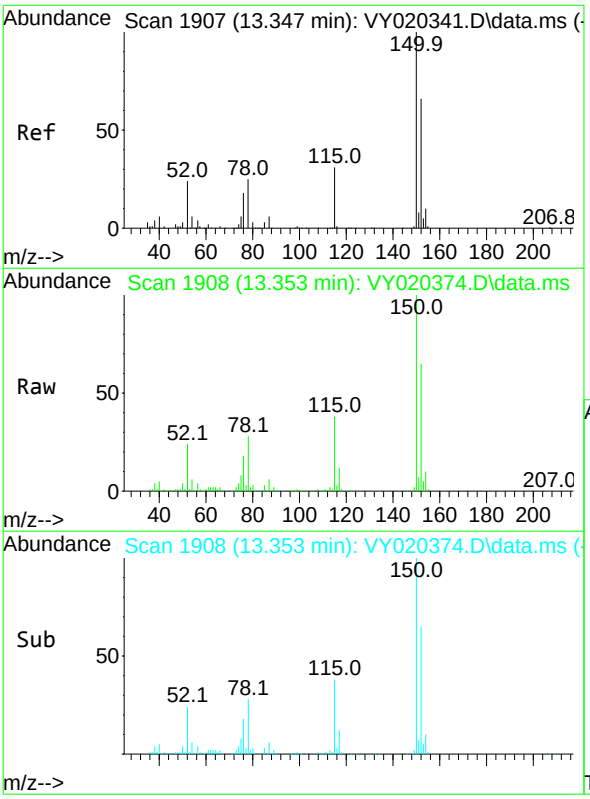

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

Tgt Ion:117 Resp: 245370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.8 | 48.2 | 72.4 |
| 119 | 31.2 | 25.8 | 38.8 |

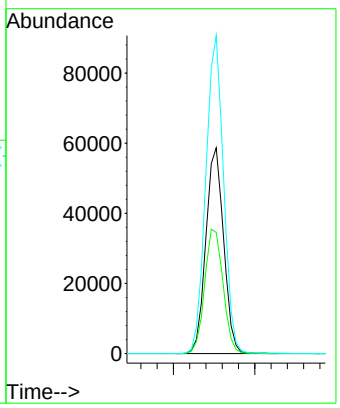



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion:152 Resp: 89046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.6 | 30.0 | 90.0 |
| 150 | 154.3 | 0.0 | 348.2 |



Raw Data: **VD080060.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Webster School | Date Received: | |
| Client Sample ID: | VD1118SBS01 | SDG No.: | P4852 |
| Lab Sample ID: | VD1118SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080060.D | 1 | | 11/18/24 10:55 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 18.4 | | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.8 | | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.3 | | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.6 | | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 19.5 | | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 18.5 | | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 58.4 | | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 18.5 | | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.4 | | 50 - 163 | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.8 | | 54 - 147 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.0 | | 58 - 134 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.4 | | 29 - 146 | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 178000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 283000 | 8.775 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 259000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 142000 | 13.516 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VD080060.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 178101 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 282863 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 258933 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 141556 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 90569 | 49.391 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.780% | | | |
| 35) Dibromofluoromethane | 7.805 | 113 | 93698 | 49.772 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.540% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 361952 | 51.013 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.020% | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 117407 | 50.435 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.880% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 26054 | 18.227 | ug/l | 89 |
| 3) Chloromethane | 2.146 | 50 | 20830 | 19.816 | ug/l | 97 |
| 4) Vinyl Chloride | 2.281 | 62 | 24350 | 20.291 | ug/l | 96 |
| 5) Bromomethane | 2.687 | 94 | 28089 | 21.323 | ug/l | 95 |
| 6) Chloroethane | 2.834 | 64 | 19340 | 22.547 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 62694 | 21.270 | ug/l | 98 |
| 8) Diethyl Ether | 3.593 | 74 | 15504 | 18.019 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.970 | 101 | 37911 | 20.590 | ug/l | 97 |
| 10) Methyl Iodide | 4.164 | 142 | 40594 | 17.811 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.058 | 59 | 9009 | 94.407 | ug/l # | 96 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 35104 | 19.022 | ug/l | 95 |
| 13) Acrolein | 3.793 | 56 | 15145 | 82.712 | ug/l | 99 |
| 14) Allyl chloride | 4.569 | 41 | 46809 | 17.894 | ug/l | 97 |
| 15) Acrylonitrile | 5.264 | 53 | 34894 | 91.286 | ug/l | 98 |
| 16) Acetone | 4.022 | 43 | 38546 | 96.882 | ug/l | 97 |
| 17) Carbon Disulfide | 4.275 | 76 | 111711 | 18.799 | ug/l | 96 |
| 18) Methyl Acetate | 4.569 | 43 | 16953 | 19.213 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 68637 | 18.231 | ug/l | 93 |
| 20) Methylene Chloride | 4.805 | 84 | 42508 | 19.922 | ug/l | 91 |
| 21) trans-1,2-Dichloroethene | 5.311 | 96 | 37754 | 18.505 | ug/l | 93 |
| 22) Diisopropyl ether | 6.222 | 45 | 98725 | 18.637 | ug/l # | 97 |
| 23) Vinyl Acetate | 6.158 | 43 | 260471 | 85.823 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.111 | 63 | 67114 | 19.049 | ug/l | 97 |
| 25) 2-Butanone | 7.087 | 43 | 43277 | 83.238 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 57476 | 18.768 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 43193 | 18.449 | ug/l | 93 |
| 28) Bromochloromethane | 7.428 | 49 | 28037 | 17.882 | ug/l | 93 |
| 29) Tetrahydrofuran | 7.452 | 42 | 26750 | 93.926 | ug/l | 99 |
| 30) Chloroform | 7.599 | 83 | 74516 | 20.075 | ug/l | 100 |
| 31) Cyclohexane | 7.875 | 56 | 54643 | 18.299 | ug/l # | 85 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 65921 | 20.753 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.005 | 75 | 50832 | 19.747 | ug/l | 99 |
| 37) Ethyl Acetate | 7.169 | 43 | 18960 | 17.136 | ug/l # | 94 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 55666 | 19.793 | ug/l | 93 |
| 39) Methylcyclohexane | 9.275 | 83 | 56196 | 18.336 | ug/l | 92 |
| 40) Benzene | 8.252 | 78 | 154630 | 19.271 | ug/l | 99 |

Sample Results: **VD080060.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.399 | 41 | 10823 | 18.125 ug/l # | 86 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 42056 | 20.253 ug/l | 99 |
| 43) Isopropyl Acetate | 8.358 | 43 | 37665 | 18.779 ug/l # | 88 |
| 44) Trichloroethene | 9.028 | 130 | 40613 | 19.560 ug/l | 97 |
| 45) 1,2-Dichloropropane | 9.305 | 63 | 38653 | 20.046 ug/l | 96 |
| 46) Dibromomethane | 9.393 | 93 | 22400 | 19.972 ug/l | 96 |
| 47) Bromodichloromethane | 9.587 | 83 | 54740 | 19.499 ug/l # | 98 |
| 48) Methyl methacrylate | 9.381 | 41 | 17744 | 18.531 ug/l | 93 |
| 49) 1,4-Dioxane | 9.387 | 88 | 4518 | 439.129 ug/l # | 88 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 100223 | 98.490 ug/l | 99 |
| 52) Toluene | 10.334 | 92 | 97423 | 19.538 ug/l | 94 |
| 53) t-1,3-Dichloropropene | 10.552 | 75 | 45844 | 18.319 ug/l | 92 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 57049 | 19.256 ug/l | 94 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 30157 | 20.324 ug/l | 97 |
| 56) Ethyl methacrylate | 10.599 | 69 | 29695 | 17.210 ug/l | 90 |
| 57) 1,3-Dichloropropane | 10.875 | 76 | 46019 | 19.065 ug/l | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 62492 | 95.761 ug/l | 96 |
| 59) 2-Hexanone | 10.922 | 43 | 68836 | 91.966 ug/l | 99 |
| 60) Dibromochloromethane | 11.075 | 129 | 39861 | 20.871 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 29169 | 20.850 ug/l | 98 |
| 64) Tetrachloroethene | 10.810 | 164 | 39119 | 21.215 ug/l | 95 |
| 65) Chlorobenzene | 11.604 | 112 | 111434 | 19.729 ug/l | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 39681 | 20.182 ug/l | 96 |
| 67) Ethyl Benzene | 11.681 | 91 | 175565 | 18.524 ug/l | 97 |
| 68) m/p-Xylenes | 11.793 | 106 | 143395 | 38.715 ug/l | 99 |
| 69) o-Xylene | 12.116 | 106 | 65428 | 19.651 ug/l | 93 |
| 70) Styrene | 12.134 | 104 | 114050 | 19.192 ug/l | 99 |
| 71) Bromoform | 12.298 | 173 | 23467 | 20.243 ug/l # | 98 |
| 73) Isopropylbenzene | 12.422 | 105 | 168564 | 18.465 ug/l | 99 |
| 74) N-amyl acetate | 12.234 | 43 | 37701 | 18.743 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83 | 34967 | 19.931 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 21810m | 17.448 ug/l | |
| 77) Bromobenzene | 12.698 | 156 | 45573 | 19.210 ug/l | 96 |
| 78) n-propylbenzene | 12.763 | 91 | 215707 | 19.120 ug/l | 98 |
| 79) 2-Chlorotoluene | 12.846 | 91 | 125865 | 19.025 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 146186 | 18.921 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 11793 | 19.309 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 135386 | 19.142 ug/l | 99 |
| 83) tert-Butylbenzene | 13.163 | 119 | 122734 | 18.342 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 149083 | 19.209 ug/l | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 194603 | 19.676 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 163152 | 19.515 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 94084 | 19.585 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 94116 | 19.507 ug/l | 98 |
| 89) n-Butylbenzene | 13.787 | 91 | 149507 | 19.009 ug/l | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 35475 | 19.794 ug/l | 97 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 81242 | 19.394 ug/l | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.440 | 75 | 4950 | 18.659 ug/l | 85 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 53659 | 20.428 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.198 | 225 | 29847 | 21.024 ug/l | 93 |
| 95) Naphthalene | 15.328 | 128 | 83816 | 18.786 ug/l | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.516 | 180 | 47186 | 20.455 ug/l | 97 |

Sample Results: **VD080060.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VD080060.D**

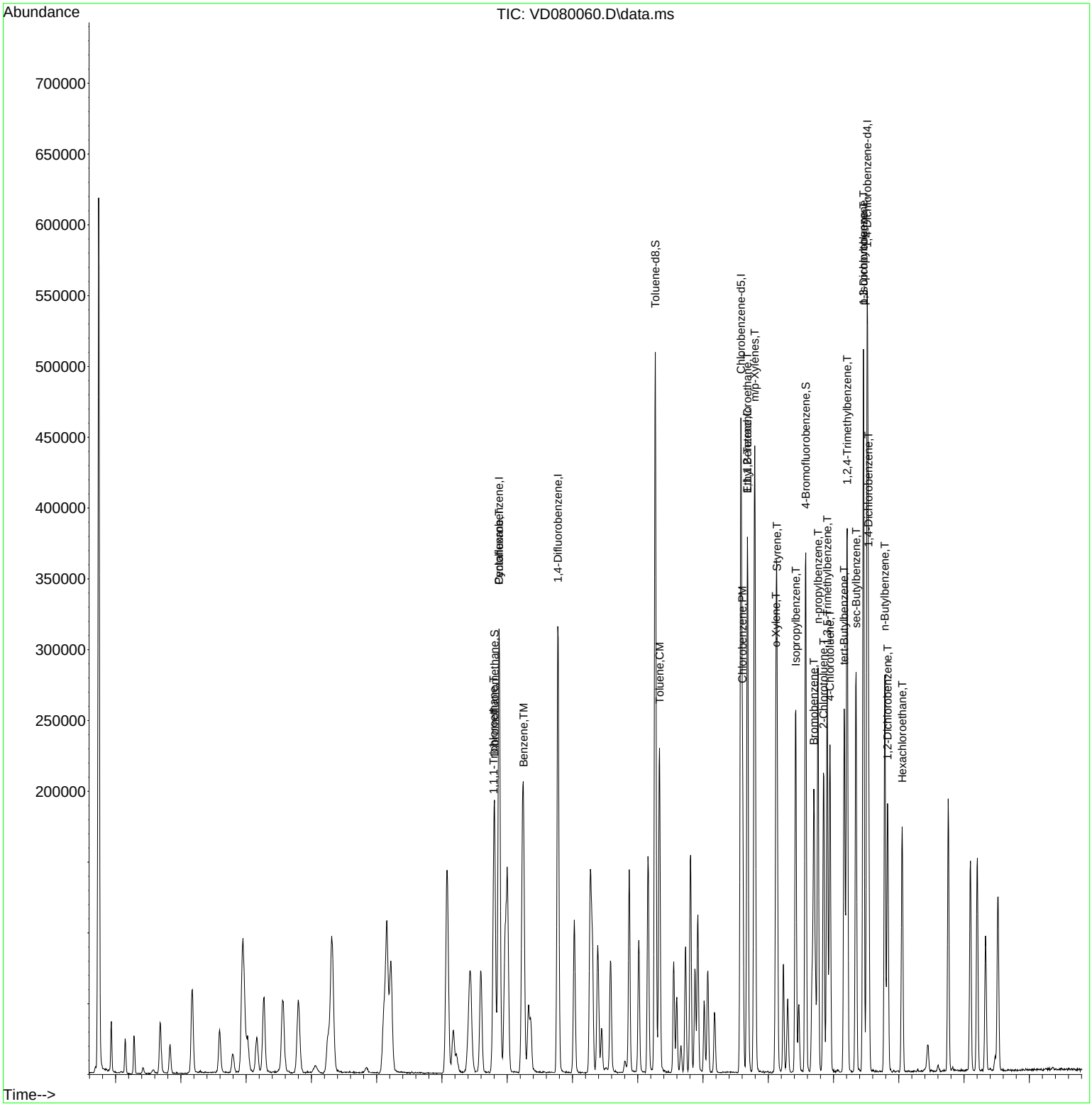
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



Raw Data: **VY020375.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Webster School | Date Received: | |
| Client Sample ID: | VY1121SBS01 | SDG No.: | P4852 |
| Lab Sample ID: | VY1121SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020375.D | 1 | | 11/21/24 10:39 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 18.9 | | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.2 | | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.6 | | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.3 | | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 19.3 | | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.0 | | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 58.7 | | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 18.4 | | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.0 | | 50 - 163 | 92% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 43.7 | | 54 - 147 | 87% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 43.3 | | 58 - 134 | 87% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.0 | | 29 - 146 | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 180000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 304000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 255000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 121000 | 13.352 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VY020375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 180247 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 303523 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 255135 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 121310 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 95330 | 46.035 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 92.060% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 85002 | 43.674 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 87.340% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 332344 | 43.348 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 86.700% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 110943 | 45.014 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 90.020% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 38946 | 22.260 | ug/l | 97 |
| 3) Chloromethane | 2.074 | 50 | 40357 | 14.316 | ug/l | 96 |
| 4) Vinyl Chloride | 2.208 | 62 | 37886 | 15.784 | ug/l | 98 |
| 5) Bromomethane | 2.604 | 94 | 20743 | 17.304 | ug/l | 100 |
| 6) Chloroethane | 2.739 | 64 | 23745 | 16.958 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 66071 | 19.809 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 19799 | 18.813 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 36345 | 18.297 | ug/l | 100 |
| 10) Methyl Iodide | 4.013 | 142 | 47517 | 17.859 | ug/l | 95 |
| 11) Tert butyl alcohol | 4.872 | 59 | 14695 | 90.913 | ug/l | 95 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 35988 | 18.303 | ug/l | 98 |
| 13) Acrolein | 3.659 | 56 | 18523 | 144.453 | ug/l | 99 |
| 14) Allyl chloride | 4.391 | 41 | 68363 | 17.979 | ug/l | 95 |
| 15) Acrylonitrile | 5.067 | 53 | 43974 | 94.525 | ug/l | 99 |
| 16) Acetone | 3.879 | 43 | 46611 | 93.891 | ug/l | 94 |
| 17) Carbon Disulfide | 4.110 | 76 | 114597 | 17.299 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 20960 | 18.113 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 98615 | 19.307 | ug/l | 97 |
| 20) Methylene Chloride | 4.622 | 84 | 39953 | 19.004 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 39135 | 17.920 | ug/l | 94 |
| 22) Diisopropyl ether | 6.031 | 45 | 137248 | 18.317 | ug/l | 98 |
| 23) Vinyl Acetate | 5.970 | 43 | 388407 | 92.756 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 78285 | 18.507 | ug/l | 96 |
| 25) 2-Butanone | 6.902 | 43 | 63764 | 99.770 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 69511 | 19.881 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 45476 | 18.906 | ug/l | 96 |
| 28) Bromochloromethane | 7.256 | 49 | 32189 | 18.080 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.268 | 42 | 37676 | 98.633 | ug/l | 98 |
| 30) Chloroform | 7.427 | 83 | 77412 | 18.951 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 72133 | 18.686 | ug/l # | 95 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 72285 | 20.154 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 57076 | 19.200 | ug/l | 98 |
| 37) Ethyl Acetate | 6.994 | 43 | 27101 | 19.901 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 65629 | 21.145 | ug/l | 98 |
| 39) Methylcyclohexane | 9.115 | 83 | 69833 | 18.771 | ug/l | 97 |
| 40) Benzene | 8.085 | 78 | 171136 | 19.645 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 13680 | 17.656 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 48620 | 20.677 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.201 | 43 | 53412 | 20.169 | ug/l | # | 87 |
| 44) Trichloroethene | 8.865 | 130 | 39835 | 19.299 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 39715 | 19.108 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 20413 | 19.162 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.426 | 83 | 58594 | 19.924 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.225 | 41 | 24591 | 19.422 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.231 | 88 | 4188 | 382.119 | ug/l | # | 93 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 133986 | 99.697 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 102921 | 19.329 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 53363 | 19.189 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 63347 | 19.899 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 26820 | 18.966 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.438 | 69 | 39987 | 18.829 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 50296 | 19.791 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 100485 | 99.789 | ug/l | | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 97031 | 101.962 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 36034 | 19.770 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 24532 | 18.722 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 34140 | 18.563 | ug/l | | 96 |
| 65) Chlorobenzene | 11.444 | 112 | 105916 | 18.619 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 37863 | 19.924 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.524 | 91 | 199885 | 19.046 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.633 | 106 | 148141 | 39.189 | ug/l | | 98 |
| 69) o-Xylene | 11.956 | 106 | 70006 | 19.525 | ug/l | | 98 |
| 70) Styrene | 11.975 | 104 | 117883 | 19.789 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 20512 | 20.711 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 189065 | 18.398 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 45544 | 18.339 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 30208 | 18.188 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 21691m | 18.971 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 39097 | 18.159 | ug/l | | 95 |
| 78) n-propylbenzene | 12.597 | 91 | 228254 | 18.508 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 128274 | 18.090 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 153707 | 18.507 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 10525 | 18.037 | ug/l | | 95 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 130788 | 17.871 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.005 | 119 | 134252 | 18.318 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 150805 | 18.315 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 197873 | 17.126 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 162886 | 18.233 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 77470 | 17.796 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 76598 | 18.416 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 153757 | 17.973 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 31013 | 17.986 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 67451 | 18.596 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 4936 | 18.112 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 39202 | 17.875 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 24790 | 18.518 | ug/l | | 98 |
| 95) Naphthalene | 15.151 | 128 | 69552 | 18.415 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 32957 | 17.576 | ug/l | | 100 |

Sample Results: **VY020375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

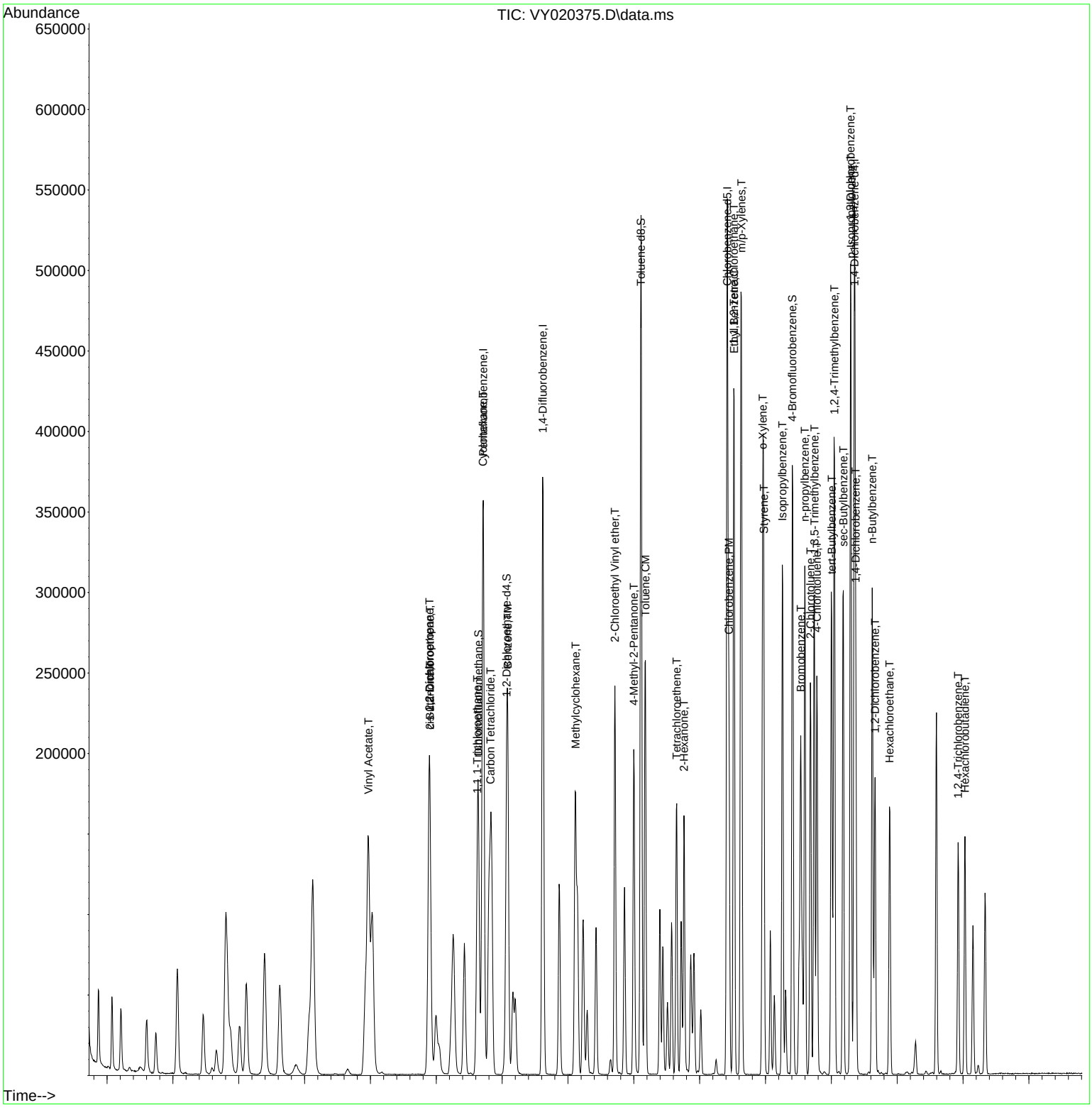
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Raw Data: **VD080061.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Webster School | Date Received: | |
| Client Sample ID: | VD1118SBSD01 | SDG No.: | P4852 |
| Lab Sample ID: | VD1118SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080061.D | 1 | | 11/18/24 11:22 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 20.3 | | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.6 | | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.8 | | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.5 | | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 21.3 | | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.3 | | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 59.2 | | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.9 | | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.0 | | 50 - 163 | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.2 | | 54 - 147 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.0 | | 58 - 134 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.4 | | 29 - 146 | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 185000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 285000 | 8.781 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 278000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 144000 | 13.516 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VD080061.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 185362 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 285036 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 278035 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 143766 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 91520 | 47.954 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 95.900% | | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 95269 | 50.221 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.440% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 357642 | 50.021 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 100.040% | | | |
| 62) 4-Bromofluorobenzene | 12.569 | 95 | 118231 | 50.402 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.800% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 27711 | 18.627 | ug/l | 96 |
| 3) Chloromethane | 2.146 | 50 | 18864 | 17.243 | ug/l | 98 |
| 4) Vinyl Chloride | 2.287 | 62 | 22305 | 17.859 | ug/l | 95 |
| 5) Bromomethane | 2.681 | 94 | 23735 | 17.107 | ug/l | 99 |
| 6) Chloroethane | 2.828 | 64 | 15612 | 17.487 | ug/l | 94 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 60472 | 19.713 | ug/l | 98 |
| 8) Diethyl Ether | 3.593 | 74 | 18549 | 20.713 | ug/l | 91 |
| 9) 1,1,2-Trichlorotrifluo... | 3.963 | 101 | 40273 | 21.016 | ug/l | 96 |
| 10) Methyl Iodide | 4.163 | 142 | 44539 | 18.777 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.058 | 59 | 11246 | 113.233 | ug/l # | 89 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 38601 | 20.097 | ug/l | 92 |
| 13) Acrolein | 3.805 | 56 | 19112 | 100.288 | ug/l | 97 |
| 14) Allyl chloride | 4.569 | 41 | 52572 | 19.309 | ug/l | 97 |
| 15) Acrylonitrile | 5.263 | 53 | 40436 | 101.641 | ug/l | 99 |
| 16) Acetone | 4.016 | 43 | 46288 | 111.783 | ug/l | 96 |
| 17) Carbon Disulfide | 4.269 | 76 | 121638 | 19.667 | ug/l | 98 |
| 18) Methyl Acetate | 4.563 | 43 | 19954 | 21.728 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 81837 | 20.885 | ug/l | 97 |
| 20) Methylene Chloride | 4.811 | 84 | 47572 | 21.422 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.310 | 96 | 42829 | 20.171 | ug/l # | 81 |
| 22) Diisopropyl ether | 6.216 | 45 | 113961 | 20.670 | ug/l # | 98 |
| 23) Vinyl Acetate | 6.157 | 43 | 321354 | 101.736 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 74136 | 20.218 | ug/l | 98 |
| 25) 2-Butanone | 7.087 | 43 | 55369 | 102.323 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 63815 | 20.021 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 49363 | 20.258 | ug/l | 95 |
| 28) Bromochloromethane | 7.428 | 49 | 29656 | 18.174 | ug/l | 89 |
| 29) Tetrahydrofuran | 7.446 | 42 | 31093 | 104.899 | ug/l | 97 |
| 30) Chloroform | 7.593 | 83 | 81001 | 20.968 | ug/l | 100 |
| 31) Cyclohexane | 7.881 | 56 | 59148 | 19.032 | ug/l # | 84 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 68251 | 20.645 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 52869 | 20.382 | ug/l | 99 |
| 37) Ethyl Acetate | 7.169 | 43 | 25388 | 22.770 | ug/l | 96 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 60997 | 21.523 | ug/l | 98 |
| 39) Methylcyclohexane | 9.275 | 83 | 60473 | 19.581 | ug/l | 96 |
| 40) Benzene | 8.252 | 78 | 167798 | 20.753 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.404 | 41 | 12073 | 20.065 ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.322 | 62 | 46347 | 22.149 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.363 | 43 | 44072 | 21.806 ug/l | | 96 |
| 44) Trichloroethene | 9.028 | 130 | 42979 | 20.542 ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 40991 | 21.096 ug/l | | 99 |
| 46) Dibromomethane | 9.399 | 93 | 24900 | 22.032 ug/l | | 98 |
| 47) Bromodichloromethane | 9.587 | 83 | 61171 | 21.624 ug/l | # | 97 |
| 48) Methyl methacrylate | 9.381 | 41 | 19015 | 19.707 ug/l | | 90 |
| 49) 1,4-Dioxane | 9.387 | 88 | 5756 | 555.192 ug/l | | 93 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 117209 | 114.304 ug/l | | 99 |
| 52) Toluene | 10.334 | 92 | 107229 | 21.341 ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 52751 | 20.919 ug/l | | 94 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 65369 | 21.896 ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 33823 | 22.621 ug/l | | 95 |
| 56) Ethyl methacrylate | 10.598 | 69 | 38127 | 21.929 ug/l | | 94 |
| 57) 1,3-Dichloropropane | 10.875 | 76 | 51094 | 21.006 ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 64512 | 98.103 ug/l | | 93 |
| 59) 2-Hexanone | 10.922 | 43 | 80591 | 106.850 ug/l | | 96 |
| 60) Dibromochloromethane | 11.075 | 129 | 45076 | 23.421 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 31528 | 22.364 ug/l | | 95 |
| 64) Tetrachloroethene | 10.810 | 164 | 40493 | 20.451 ug/l | | 97 |
| 65) Chlorobenzene | 11.604 | 112 | 122987 | 20.278 ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.675 | 131 | 43662 | 20.681 ug/l | | 96 |
| 67) Ethyl Benzene | 11.681 | 91 | 196392 | 19.298 ug/l | | 98 |
| 68) m/p-Xylenes | 11.793 | 106 | 157181 | 39.521 ug/l | | 100 |
| 69) o-Xylene | 12.122 | 106 | 70536 | 19.730 ug/l | | 95 |
| 70) Styrene | 12.134 | 104 | 130977 | 20.526 ug/l | | 97 |
| 71) Bromoform | 12.298 | 173 | 26906 | 21.615 ug/l | # | 96 |
| 73) Isopropylbenzene | 12.422 | 105 | 184445 | 19.894 ug/l | | 100 |
| 74) N-amyl acetate | 12.234 | 43 | 43046 | 21.072 ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 38953 | 21.862 ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 30446m | 23.983 ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 48840 | 20.271 ug/l | | 100 |
| 78) n-propylbenzene | 12.763 | 91 | 230120 | 20.084 ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 136085 | 20.253 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 159585 | 20.338 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 13854 | 22.335 ug/l | | 93 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 146095 | 20.339 ug/l | | 97 |
| 83) tert-Butylbenzene | 13.163 | 119 | 129416 | 19.044 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 164138 | 20.823 ug/l | | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 205507 | 20.459 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 175424 | 20.661 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 100617 | 20.622 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.539 | 146 | 100511 | 20.512 ug/l | | 98 |
| 89) n-Butylbenzene | 13.787 | 91 | 159355 | 19.949 ug/l | | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 37599 | 20.657 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 88869 | 20.889 ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 6099 | 22.637 ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 52820 | 19.799 ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.198 | 225 | 29372 | 20.371 ug/l | | 98 |
| 95) Naphthalene | 15.328 | 128 | 93898 | 20.722 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.516 | 180 | 48809 | 20.834 ug/l | | 99 |

Sample Results: **VD080061.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VD080061.D**

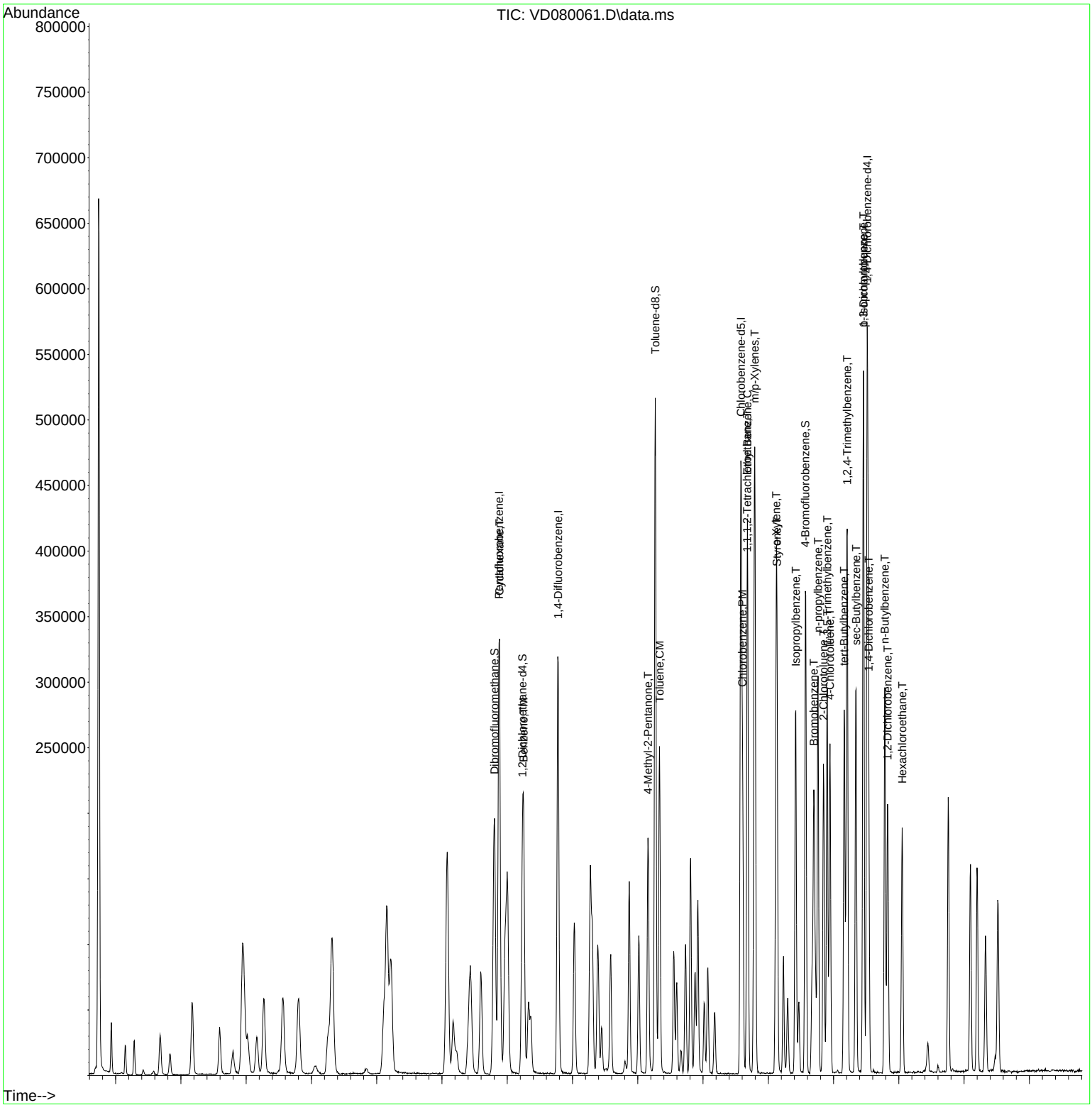
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



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

# Manual Integration Report

| Sequence: | VD111524 | Instrument | MSVOA_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICV050 | VD080017.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:00 PM | SAM | 11/18/2024 3:16:37 PM | Peak Integrated by Software |
| VSTDICC005 | VD080020.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:02 PM | SAM | 11/18/2024 3:16:39 PM | Peak Integrated by Software |
| VSTDICC005 | VD080020.D | Tert butyl alcohol | MMDadoda | 11/18/2024 3:13:02 PM | SAM | 11/18/2024 3:16:39 PM | Peak Integrated by Software |
| VSTDICC010 | VD080021.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:04 PM | SAM | 11/18/2024 3:16:41 PM | Peak Integrated by Software |
| VSTDICC020 | VD080022.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:06 PM | SAM | 11/18/2024 3:16:42 PM | Peak Integrated by Software |
| VSTDICCC050 | VD080023.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:07 PM | SAM | 11/18/2024 3:16:45 PM | Peak Integrated by Software |
| VSTDICC100 | VD080024.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:09 PM | SAM | 11/18/2024 3:16:46 PM | Peak Integrated by Software |
| VSTDICC150 | VD080025.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:11 PM | SAM | 11/18/2024 3:16:48 PM | Peak Integrated by Software |
| VSTDICV050 | VD080026.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:13 PM | SAM | 11/18/2024 3:16:50 PM | Peak Integrated by Software |
| VSTDCCC050 | VD080036.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:20 PM | SAM | 11/18/2024 3:16:56 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VD111824 | Instrument | MSVOA_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VD080058.D | 1,2,3-Trichloropropane | Romaben | 11/19/2024 11:04:19 AM | MMDadoda | 11/19/2024 1:21:28 PM | Peak Integrated by Software |
| VD1118SBS01 | VD080060.D | 1,2,3-Trichloropropane | Romaben | 11/19/2024 11:04:25 AM | MMDadoda | 11/19/2024 1:21:28 PM | Peak Integrated by Software |
| VD1118SBSD01 | VD080061.D | 1,2,3-Trichloropropane | Romaben | 11/19/2024 11:04:30 AM | MMDadoda | 11/19/2024 1:21:29 PM | Peak Integrated by Software |
| VSTDCCC050 | VD080080.D | 1,2,3-Trichloropropane | Romaben | 11/19/2024 11:04:35 AM | MMDadoda | 11/19/2024 1:21:31 PM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | VY111924 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY020338.D | 1,2,3-Trichloropropane | Romaben | 11/20/2024 9:16:52 AM | MMDadoda | 11/20/2024 1:00:46 PM | Peak Integrated by Software |
| VSTDICC005 | VY020338.D | Ethyl Acetate | Romaben | 11/20/2024 9:16:52 AM | MMDadoda | 11/20/2024 1:00:46 PM | Peak Integrated by Software |
| VSTDICC005 | VY020338.D | Tert butyl alcohol | Romaben | 11/20/2024 9:16:52 AM | MMDadoda | 11/20/2024 1:00:46 PM | Peak Integrated by Software |
| VSTDICC010 | VY020339.D | 1,2,3-Trichloropropane | Romaben | 11/20/2024 9:16:57 AM | MMDadoda | 11/20/2024 1:00:48 PM | Peak Integrated by Software |
| VSTDICC020 | VY020340.D | 1,2,3-Trichloropropane | Romaben | 11/20/2024 9:17:07 AM | MMDadoda | 11/20/2024 1:00:52 PM | Peak Integrated by Software |
| VSTDICC050 | VY020341.D | 1,2,3-Trichloropropane | Romaben | 11/20/2024 9:18:09 AM | MMDadoda | 11/20/2024 1:00:53 PM | Peak Integrated by Software |
| VSTDICC100 | VY020342.D | 1,2,3-Trichloropropane | Romaben | 11/20/2024 9:17:14 AM | MMDadoda | 11/20/2024 1:00:55 PM | Peak Integrated by Software |
| VSTDICC150 | VY020343.D | 1,2,3-Trichloropropane | Romaben | 11/20/2024 9:17:19 AM | MMDadoda | 11/20/2024 1:00:56 PM | Peak Integrated by Software |
| VSTDICV050 | VY020345.D | 1,2,3-Trichloropropane | Romaben | 11/20/2024 9:17:24 AM | MMDadoda | 11/20/2024 1:00:58 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY112124 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY020373.D | 1,2,3-Trichloropropane | Romaben | 11/22/2024 11:06:56 AM | MMDadoda | 11/22/2024 3:31:17 PM | Peak Integrated by Software |
| VY1121SBS01 | VY020375.D | 1,2,3-Trichloropropane | Romaben | 11/22/2024 11:07:00 AM | MMDadoda | 11/22/2024 3:31:16 PM | Peak Integrated by Software |
| VSTDCCC050 | VY020399.D | 1,2,3-Trichloropropane | Romaben | 11/22/2024 11:11:47 AM | MMDadoda | 11/22/2024 3:31:21 PM | Peak Integrated by Software |

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**Instrument ID: MSVOA_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/18/2024 3:13:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/18/2024 3:17:20 PM | | |
| SubDirectory | VD111524 | HP Acquire Method | | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131514 |
| Initial Calibration Stds | VP131516,VP131518,VP131520,VP131522,VP131524,VP131526 |
| CCC | VP131535,VP131536 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP131528 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VD080010.D | 14 Nov 2024 17:14 | RP/MD | Not Ok |
| 2 | VSTDICC005 | VD080011.D | 14 Nov 2024 18:02 | RP/MD | Not Ok |
| 3 | VSTDICC010 | VD080012.D | 14 Nov 2024 18:29 | RP/MD | Not Ok |
| 4 | VSTDICC020 | VD080013.D | 14 Nov 2024 18:56 | RP/MD | Not Ok |
| 5 | VSTDICCC050 | VD080014.D | 14 Nov 2024 19:22 | RP/MD | Not Ok |
| 6 | VSTDICC100 | VD080015.D | 14 Nov 2024 19:49 | RP/MD | Not Ok |
| 7 | VSTDICC150 | VD080016.D | 14 Nov 2024 20:16 | RP/MD | Not Ok |
| 8 | VSTDICV050 | VD080017.D | 14 Nov 2024 20:43 | RP/MD | Not Ok |
| 9 | VIBLK | VD080018.D | 14 Nov 2024 21:36 | RP/MD | Not Ok |
| 10 | BFB | VD080019.D | 15 Nov 2024 09:14 | RP/MD | Ok |
| 11 | VSTDICC005 | VD080020.D | 15 Nov 2024 10:04 | RP/MD | Ok,M |
| 12 | VSTDICC010 | VD080021.D | 15 Nov 2024 10:31 | RP/MD | Ok,M |
| 13 | VSTDICC020 | VD080022.D | 15 Nov 2024 10:58 | RP/MD | Ok,M |
| 14 | VSTDICCC050 | VD080023.D | 15 Nov 2024 11:24 | RP/MD | Ok,M |
| 15 | VSTDICC100 | VD080024.D | 15 Nov 2024 11:51 | RP/MD | Ok,M |
| 16 | VSTDICC150 | VD080025.D | 15 Nov 2024 12:18 | RP/MD | Ok,M |
| 17 | VSTDICV050 | VD080026.D | 15 Nov 2024 15:44 | RP/MD | Ok,M |
| 18 | VD1115SBL01 | VD080027.D | 15 Nov 2024 16:19 | RP/MD | Ok |
| 19 | VD1115SBS01 | VD080028.D | 15 Nov 2024 16:46 | RP/MD | Ok,M |
| 20 | P4837-03 | VD080029.D | 15 Nov 2024 17:13 | RP/MD | Ok |
| 21 | P4836-03 | VD080030.D | 15 Nov 2024 17:40 | RP/MD | ReRun |

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**Instrument ID: MSVOA_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/18/2024 3:13:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/18/2024 3:17:20 PM | | |
| SubDirectory | VD111524 | HP Acquire Method | | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131514 |
| Initial Calibration Stds | VP131516,VP131518,VP131520,VP131522,VP131524,VP131526 |
| CCC | VP131535,VP131536 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP131528 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4835-03 | VD080031.D | 15 Nov 2024 18:07 | RP/MD | Ok |
| 23 | P4834-03 | VD080032.D | 15 Nov 2024 18:34 | RP/MD | ReRun |
| 24 | P4838-03 | VD080033.D | 15 Nov 2024 19:01 | RP/MD | ReRun |
| 25 | P4833-03 | VD080034.D | 15 Nov 2024 19:28 | RP/MD | Not Ok |
| 26 | VD1115SBSD01 | VD080035.D | 15 Nov 2024 19:55 | RP/MD | Ok,M |
| 27 | VSTDCCC050 | VD080036.D | 15 Nov 2024 20:22 | RP/MD | Ok,M |

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**Instrument ID: MSVOA_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111824

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/19/2024 1:21:34 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/19/2024 1:22:24 PM | | | | |
| SubDirectory | VD111824 | HP Acquire Method | MSVOA_D | HP Processing Method | 82d111424s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131590 |
| Initial Calibration Stds | |
| CCC | VP131593,VP131594 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VD080057.D | 18 Nov 2024 09:21 | RP/MD | Ok |
| 2 | VSTDCCC050 | VD080058.D | 18 Nov 2024 09:51 | RP/MD | Ok,M |
| 3 | VD1118SBL01 | VD080059.D | 18 Nov 2024 10:27 | RP/MD | Ok |
| 4 | VD1118SBS01 | VD080060.D | 18 Nov 2024 10:55 | RP/MD | Ok,M |
| 5 | VD1118SBSD01 | VD080061.D | 18 Nov 2024 11:22 | RP/MD | Ok,M |
| 6 | P4825-01RE | VD080062.D | 18 Nov 2024 12:08 | RP/MD | Confirms |
| 7 | P4824-01RE | VD080063.D | 18 Nov 2024 12:35 | RP/MD | Confirms |
| 8 | P4857-03RE | VD080064.D | 18 Nov 2024 13:02 | RP/MD | Confirms |
| 9 | P4859-01 | VD080065.D | 18 Nov 2024 13:30 | RP/MD | Ok |
| 10 | P4869-01 | VD080066.D | 18 Nov 2024 13:57 | RP/MD | Ok |
| 11 | P4848-01 | VD080067.D | 18 Nov 2024 14:24 | RP/MD | ReRun |
| 12 | P4852-01 | VD080068.D | 18 Nov 2024 14:51 | RP/MD | ReRun |
| 13 | P4852-02 | VD080069.D | 18 Nov 2024 15:18 | RP/MD | ReRun |
| 14 | P4852-03 | VD080070.D | 18 Nov 2024 15:45 | RP/MD | ReRun |
| 15 | P4850-01 | VD080071.D | 18 Nov 2024 16:12 | RP/MD | Ok |
| 16 | P4860-01 | VD080072.D | 18 Nov 2024 16:39 | RP/MD | Ok |
| 17 | P4860-02 | VD080073.D | 18 Nov 2024 17:06 | RP/MD | Ok |
| 18 | P4860-03 | VD080074.D | 18 Nov 2024 17:33 | RP/MD | ReRun |
| 19 | P4860-04 | VD080075.D | 18 Nov 2024 18:00 | RP/MD | Ok |
| 20 | P4860-05 | VD080076.D | 18 Nov 2024 18:28 | RP/MD | Ok |
| 21 | P4860-06 | VD080077.D | 18 Nov 2024 18:55 | RP/MD | Not Ok |

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**Instrument ID: MSVOA_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111824

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/19/2024 1:21:34 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/19/2024 1:22:24 PM | | | | |
| SubDirectory | VD111824 | HP Acquire Method | MSVOA_D | HP Processing Method | 82d111424s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131590 |
| Initial Calibration Stds | |
| CCC | VP131593,VP131594 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4860-07 | VD080078.D | 18 Nov 2024 19:22 | RP/MD | Ok |
| 23 | P4860-08 | VD080079.D | 18 Nov 2024 19:49 | RP/MD | Ok |
| 24 | VSTDCCC050 | VD080080.D | 18 Nov 2024 20:16 | RP/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY111924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/20/2024 1:01:03 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/20/2024 1:03:18 PM | | |
| SubDirectory | VY111924 | HP Acquire Method | | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131638 |
| Initial Calibration Stds | VP131639,VP131640,VP131641,VP131642,VP131643,VP131644 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP131645 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020337.D | 19 Nov 2024 14:40 | SY/MD | Ok |
| 2 | VSTDICC005 | VY020338.D | 19 Nov 2024 15:49 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VY020339.D | 19 Nov 2024 16:12 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY020340.D | 19 Nov 2024 16:35 | SY/MD | Ok,M |
| 5 | VSTDICC050 | VY020341.D | 19 Nov 2024 16:57 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VY020342.D | 19 Nov 2024 17:20 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VY020343.D | 19 Nov 2024 17:42 | SY/MD | Ok,M |
| 8 | VIBLK | VY020344.D | 19 Nov 2024 18:06 | SY/MD | Ok |
| 9 | VSTDICV050 | VY020345.D | 19 Nov 2024 18:52 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/22/2024 3:31:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/22/2024 3:36:07 PM | | |
| SubDirectory | VY112124 | HP Acquire Method | | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131692 |
| Initial Calibration Stds | |
| CCC | VP131693,VP131694 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020372.D | 21 Nov 2024 08:32 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY020373.D | 21 Nov 2024 09:25 | SY/MD | Ok,M |
| 3 | VY1121SBL01 | VY020374.D | 21 Nov 2024 09:59 | SY/MD | Ok |
| 4 | VY1121SBS01 | VY020375.D | 21 Nov 2024 10:39 | SY/MD | Ok,M |
| 5 | VY1121SBSD01 | VY020376.D | 21 Nov 2024 11:02 | SY/MD | Ok,M |
| 6 | P4852-01 | VY020377.D | 21 Nov 2024 11:25 | SY/MD | Ok |
| 7 | P4852-02RE | VY020378.D | 21 Nov 2024 11:49 | SY/MD | Confirms |
| 8 | P4852-03 | VY020379.D | 21 Nov 2024 12:12 | SY/MD | Ok |
| 9 | P4908-03 | VY020380.D | 21 Nov 2024 12:36 | SY/MD | Ok |
| 10 | P4909-02 | VY020381.D | 21 Nov 2024 12:59 | SY/MD | Ok |
| 11 | P4929-01RE | VY020382.D | 21 Nov 2024 13:23 | SY/MD | Confirms |
| 12 | P4910-07 | VY020383.D | 21 Nov 2024 13:46 | SY/MD | Ok |
| 13 | P4910-03 | VY020384.D | 21 Nov 2024 14:09 | SY/MD | Ok |
| 14 | P4870-03 | VY020385.D | 21 Nov 2024 14:33 | SY/MD | Ok |
| 15 | P4870-06 | VY020386.D | 21 Nov 2024 14:56 | SY/MD | Ok |
| 16 | P4870-12 | VY020387.D | 21 Nov 2024 15:20 | SY/MD | Ok |
| 17 | P4892-02 | VY020388.D | 21 Nov 2024 15:43 | SY/MD | ReRun |
| 18 | P4860-10 | VY020389.D | 21 Nov 2024 16:06 | SY/MD | Ok |
| 19 | P4860-09 | VY020390.D | 21 Nov 2024 16:30 | SY/MD | Ok |
| 20 | P4925-03 | VY020391.D | 21 Nov 2024 16:53 | SY/MD | Ok |
| 21 | P4893-03 | VY020392.D | 21 Nov 2024 17:17 | SY/MD | Ok |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/22/2024 3:31:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/22/2024 3:36:07 PM | | |
| SubDirectory | VY112124 | HP Acquire Method | | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131692 |
| Initial Calibration Stds | |
| CCC | VP131693,VP131694 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4893-07 | VY020393.D | 21 Nov 2024 17:40 | SY/MD | Ok |
| 23 | P4925-07 | VY020394.D | 21 Nov 2024 18:04 | SY/MD | Ok |
| 24 | P4892-01 | VY020395.D | 21 Nov 2024 18:27 | SY/MD | Ok |
| 25 | P4938-07 | VY020396.D | 21 Nov 2024 18:50 | SY/MD | Ok |
| 26 | P4938-03 | VY020397.D | 21 Nov 2024 19:14 | SY/MD | Ok |
| 27 | P4936-01 | VY020398.D | 21 Nov 2024 19:37 | SY/MD | ReRun |
| 28 | VSTDCCC050 | VY020399.D | 21 Nov 2024 20:00 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_D

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/18/2024 3:13:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/18/2024 3:17:20 PM | | |
| SubDirectory | VD111524 | HP Acquire Method | | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131514 |
| Initial Calibration Stds | VP131516,VP131518,VP131520,VP131522,VP131524,VP131526 |
| CCC | VP131535,VP131536 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP131528 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VD080010.D | 14 Nov 2024 17:14 | Method failed for Comp. #05 | RP/MD | Not Ok |
| 2 | VSTDICC005 | VSTDICC005 | VD080011.D | 14 Nov 2024 18:02 | %D failed for Comp. #16 in 05PPB | RP/MD | Not Ok |
| 3 | VSTDICC010 | VSTDICC010 | VD080012.D | 14 Nov 2024 18:29 | | RP/MD | Not Ok |
| 4 | VSTDICC020 | VSTDICC020 | VD080013.D | 14 Nov 2024 18:56 | | RP/MD | Not Ok |
| 5 | VSTDICCC050 | VSTDICCC050 | VD080014.D | 14 Nov 2024 19:22 | Comp. #10,16 are on Quadratic Regression | RP/MD | Not Ok |
| 6 | VSTDICC100 | VSTDICC100 | VD080015.D | 14 Nov 2024 19:49 | | RP/MD | Not Ok |
| 7 | VSTDICC150 | VSTDICC150 | VD080016.D | 14 Nov 2024 20:16 | | RP/MD | Not Ok |
| 8 | VSTDICV050 | ICVVD111524 | VD080017.D | 14 Nov 2024 20:43 | ICV Failed for comp. #13 | RP/MD | Not Ok |
| 9 | VIBLK | VIBLK | VD080018.D | 14 Nov 2024 21:36 | | RP/MD | Not Ok |
| 10 | BFB | BFB | VD080019.D | 15 Nov 2024 09:14 | | RP/MD | Ok |
| 11 | VSTDICC005 | VSTDICC005 | VD080020.D | 15 Nov 2024 10:04 | QR @ comp #05 | RP/MD | Ok,M |
| 12 | VSTDICC010 | VSTDICC010 | VD080021.D | 15 Nov 2024 10:31 | %D fail for comp #05 in 10PPB | RP/MD | Ok,M |
| 13 | VSTDICC020 | VSTDICC020 | VD080022.D | 15 Nov 2024 10:58 | | RP/MD | Ok,M |
| 14 | VSTDICCC050 | VSTDICCC050 | VD080023.D | 15 Nov 2024 11:24 | | RP/MD | Ok,M |
| 15 | VSTDICC100 | VSTDICC100 | VD080024.D | 15 Nov 2024 11:51 | | RP/MD | Ok,M |
| 16 | VSTDICC150 | VSTDICC150 | VD080025.D | 15 Nov 2024 12:18 | | RP/MD | Ok,M |
| 17 | VSTDICV050 | ICVVD111524 | VD080026.D | 15 Nov 2024 15:44 | | RP/MD | Ok,M |

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**Instrument ID:** MSVOA_D

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/18/2024 3:13:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/18/2024 3:17:20 PM | | |
| SubDirectory | VD111524 | HP Acquire Method | | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131514 |
| Initial Calibration Stds | VP131516,VP131518,VP131520,VP131522,VP131524,VP131526 |
| CCC | VP131535,VP131536 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP131528 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | VD1115SBL01 | VBLK21 | VD080027.D | 15 Nov 2024 16:19 | | RP/MD | Ok |
| 19 | VD1115SBS01 | VD1115SBS01 | VD080028.D | 15 Nov 2024 16:46 | | RP/MD | Ok,M |
| 20 | P4837-03 | 3TRK-STONE | VD080029.D | 15 Nov 2024 17:13 | vial-A | RP/MD | Ok |
| 21 | P4836-03 | T3-STONE | VD080030.D | 15 Nov 2024 17:40 | ISTD Fail vial-A | RP/MD | ReRun |
| 22 | P4835-03 | 345-2-STONE | VD080031.D | 15 Nov 2024 18:07 | vial-A | RP/MD | Ok |
| 23 | P4834-03 | SLP-1-STONE | VD080032.D | 15 Nov 2024 18:34 | Internal Standard and Surrogate Fail VIAL- A | RP/MD | ReRun |
| 24 | P4838-03 | T1-STONE | VD080033.D | 15 Nov 2024 19:01 | ISTD Fail :Vial- A | RP/MD | ReRun |
| 25 | P4833-03 | MH-731-VOC | VD080034.D | 15 Nov 2024 19:28 | Internal not spike; Surrogate fail Vial- A | RP/MD | Not Ok |
| 26 | VD1115SBSD01 | VD1115SBSD01 | VD080035.D | 15 Nov 2024 19:55 | | RP/MD | Ok,M |
| 27 | VSTDCCC050 | VSTD05021 | VD080036.D | 15 Nov 2024 20:22 | | RP/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_D

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/19/2024 1:21:34 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/19/2024 1:22:24 PM | | |
| SubDirectory | VD111824 | HP Acquire Method | MSVOA_D | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131590 |
| Initial Calibration Stds | |
| CCC | VP131593,VP131594 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VD080057.D | 18 Nov 2024 09:21 | | RP/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VD080058.D | 18 Nov 2024 09:51 | | RP/MD | Ok,M |
| 3 | VD1118SBL01 | VD1118SBL01 | VD080059.D | 18 Nov 2024 10:27 | | RP/MD | Ok |
| 4 | VD1118SBS01 | VD1118SBS01 | VD080060.D | 18 Nov 2024 10:55 | | RP/MD | Ok,M |
| 5 | VD1118SBSD01 | VD1118SBSD01 | VD080061.D | 18 Nov 2024 11:22 | | RP/MD | Ok,M |
| 6 | P4825-01RE | STOCK-PILERE | VD080062.D | 18 Nov 2024 12:08 | Internal Standard Fail ;Surrogate fail VIAL- B | RP/MD | Confirms |
| 7 | P4824-01RE | T-20RE | VD080063.D | 18 Nov 2024 12:35 | Internal Standard Fail ;Surrogate fail VIAL- B | RP/MD | Confirms |
| 8 | P4857-03RE | VNJ-226RE | VD080064.D | 18 Nov 2024 13:02 | ISTD Fail vial-B | RP/MD | Confirms |
| 9 | P4859-01 | NB-08-111424 | VD080065.D | 18 Nov 2024 13:30 | vial-B | RP/MD | Ok |
| 10 | P4869-01 | EO-02-11152024 | VD080066.D | 18 Nov 2024 13:57 | vial-A | RP/MD | Ok |
| 11 | P4848-01 | TP-1 | VD080067.D | 18 Nov 2024 14:24 | Internal Standard Fail ;Surrogate fail VIAL- A | RP/MD | ReRun |
| 12 | P4852-01 | COMP-1 | VD080068.D | 18 Nov 2024 14:51 | Internal Standard Fail ;Surrogate fail VIAL- A | RP/MD | ReRun |
| 13 | P4852-02 | COMP-2 | VD080069.D | 18 Nov 2024 15:18 | Internal Standard Fail ;Surrogate fail VIAL- A | RP/MD | ReRun |
| 14 | P4852-03 | COMP-3 | VD080070.D | 18 Nov 2024 15:45 | Internal Standard Fail ;Surrogate fail VIAL- A | RP/MD | ReRun |
| 15 | P4850-01 | OR-03-11142024 | VD080071.D | 18 Nov 2024 16:12 | vial-A | RP/MD | Ok |
| 16 | P4860-01 | DUP-01 | VD080072.D | 18 Nov 2024 16:39 | vial-A | RP/MD | Ok |

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

**Instrument ID:** MSVOA_D

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/19/2024 1:21:34 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/19/2024 1:22:24 PM | | |
| SubDirectory | VD111824 | HP Acquire Method | MSVOA_D | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131590 |
| Initial Calibration Stds | |
| CCC | VP131593,VP131594 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | P4860-02 | PH2-BOT-001 | VD080073.D | 18 Nov 2024 17:06 | vial-A | RP/MD | Ok |
| 18 | P4860-03 | PH2-BOT-002 | VD080074.D | 18 Nov 2024 17:33 | Internal Standard Fail vial-A | RP/MD | ReRun |
| 19 | P4860-04 | PH2-BPT-003 | VD080075.D | 18 Nov 2024 18:00 | vial-A | RP/MD | Ok |
| 20 | P4860-05 | PH2-BPT-004 | VD080076.D | 18 Nov 2024 18:28 | vial-A | RP/MD | Ok |
| 21 | P4860-06 | PH2-BPT-009 | VD080077.D | 18 Nov 2024 18:55 | vial-A comp.#81 is out of range | RP/MD | Not Ok |
| 22 | P4860-07 | PH2-BOT-008 | VD080078.D | 18 Nov 2024 19:22 | vial-A | RP/MD | Ok |
| 23 | P4860-08 | PH2-BOT-007 | VD080079.D | 18 Nov 2024 19:49 | vial-A | RP/MD | Ok |
| 24 | VSTDCCC050 | VSTDCCC050EC | VD080080.D | 18 Nov 2024 20:16 | | RP/MD | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY111924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/20/2024 1:01:03 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/20/2024 1:03:18 PM | | |
| SubDirectory | VY111924 | HP Acquire Method | | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131638 |
| Initial Calibration Stds | VP131639,VP131640,VP131641,VP131642,VP131643,VP131644 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP131645 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020337.D | 19 Nov 2024 14:40 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY020338.D | 19 Nov 2024 15:49 | | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VY020339.D | 19 Nov 2024 16:12 | | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY020340.D | 19 Nov 2024 16:35 | | SY/MD | Ok,M |
| 5 | VSTDICC050 | VSTDICC050 | VY020341.D | 19 Nov 2024 16:57 | Comp.#3 is on Linear Regression | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VY020342.D | 19 Nov 2024 17:20 | Comp.#11 is on Quadratic Regression | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VY020343.D | 19 Nov 2024 17:42 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY020344.D | 19 Nov 2024 18:06 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVY111924 | VY020345.D | 19 Nov 2024 18:52 | | SY/MD | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/22/2024 3:31:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/22/2024 3:36:07 PM | | |
| SubDirectory | VY112124 | HP Acquire Method | | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131692 |
| Initial Calibration Stds | |
| CCC | VP131693,VP131694 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020372.D | 21 Nov 2024 08:32 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY020373.D | 21 Nov 2024 09:25 | | SY/MD | Ok,M |
| 3 | VY1121SBL01 | VY1121SBL01 | VY020374.D | 21 Nov 2024 09:59 | | SY/MD | Ok |
| 4 | VY1121SBS01 | VY1121SBS01 | VY020375.D | 21 Nov 2024 10:39 | | SY/MD | Ok,M |
| 5 | VY1121SBSD01 | VY1121SBSD01 | VY020376.D | 21 Nov 2024 11:02 | | SY/MD | Ok,M |
| 6 | P4852-01 | COMP-1 | VY020377.D | 21 Nov 2024 11:25 | vial-B | SY/MD | Ok |
| 7 | P4852-02RE | COMP-2RE | VY020378.D | 21 Nov 2024 11:49 | ISTD Fail vial-B | SY/MD | Confirms |
| 8 | P4852-03 | COMP-3 | VY020379.D | 21 Nov 2024 12:12 | vial-B | SY/MD | Ok |
| 9 | P4908-03 | SP-2 | VY020380.D | 21 Nov 2024 12:36 | Vial-B | SY/MD | Ok |
| 10 | P4909-02 | BU-02-111824 | VY020381.D | 21 Nov 2024 12:59 | Vial-B | SY/MD | Ok |
| 11 | P4929-01RE | ARS520RE | VY020382.D | 21 Nov 2024 13:23 | Internal Standard Fail vial-B | SY/MD | Confirms |
| 12 | P4910-07 | MH-759-VOC | VY020383.D | 21 Nov 2024 13:46 | vial-B | SY/MD | Ok |
| 13 | P4910-03 | MH-COTTAGE-VOC | VY020384.D | 21 Nov 2024 14:09 | vial-B | SY/MD | Ok |
| 14 | P4870-03 | TP-1-VOC | VY020385.D | 21 Nov 2024 14:33 | vial-B | SY/MD | Ok |
| 15 | P4870-06 | MH-735-VOC | VY020386.D | 21 Nov 2024 14:56 | vial-B | SY/MD | Ok |
| 16 | P4870-12 | TP-15-VOC | VY020387.D | 21 Nov 2024 15:20 | vial-B | SY/MD | Ok |
| 17 | P4892-02 | WB-310-BOT | VY020388.D | 21 Nov 2024 15:43 | Internal Standard Fail vial-B | SY/MD | ReRun |
| 18 | P4860-10 | PH2-BOT-005 | VY020389.D | 21 Nov 2024 16:06 | vial-A | SY/MD | Ok |

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Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/22/2024 3:31:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/22/2024 3:36:07 PM | | |
| SubDirectory | VY112124 | HP Acquire Method | | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131692 |
| Initial Calibration Stds | |
| CCC | VP131693,VP131694 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4860-09 | PH2-BOT-006 | VY020390.D | 21 Nov 2024 16:30 | vial-A | SY/MD | Ok |
| 20 | P4925-03 | MH-741-VOC | VY020391.D | 21 Nov 2024 16:53 | vial-A | SY/MD | Ok |
| 21 | P4893-03 | MH-763-VOC | VY020392.D | 21 Nov 2024 17:17 | vial-A | SY/MD | Ok |
| 22 | P4893-07 | MH-762-VOC | VY020393.D | 21 Nov 2024 17:40 | vial-A | SY/MD | Ok |
| 23 | P4925-07 | MH-758-VOC | VY020394.D | 21 Nov 2024 18:04 | vial-A | SY/MD | Ok |
| 24 | P4892-01 | WB-310-TOP | VY020395.D | 21 Nov 2024 18:27 | vial-A | SY/MD | Ok |
| 25 | P4938-07 | MH-734-VOC | VY020396.D | 21 Nov 2024 18:50 | vial-A | SY/MD | Ok |
| 26 | P4938-03 | MH-732-VOC | VY020397.D | 21 Nov 2024 19:14 | vial-A | SY/MD | Ok |
| 27 | P4936-01 | PL-01-11202024 | VY020398.D | 21 Nov 2024 19:37 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 28 | VSTDCCC050 | VSTDCCC050EC | VY020399.D | 21 Nov 2024 20:00 | | SY/MD | Ok,M |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 11/15/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 16:50
**In Date:** 11/14/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:14
**Out Date:** 11/15/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133451

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P4839-01 | EX-9-TPH-9 | 1 | 1.14 | 8.58 | 9.72 | 8.44 | 85.1 | |
| P4839-02 | EX-9-TPH-10 | 2 | 1.15 | 8.54 | 9.69 | 8.61 | 87.4 | |
| P4839-03 | EX-9-TPH-11 | 3 | 1.18 | 8.53 | 9.71 | 8.55 | 86.4 | |
| P4839-04 | EX-9-TPH-12 | 4 | 1.15 | 8.82 | 9.97 | 8.85 | 87.3 | |
| P4839-05 | EX-9-TPH-13 | 5 | 1.12 | 8.70 | 9.82 | 8.64 | 86.4 | |
| P4839-06 | EX-9-TPH-14 | 6 | 1.15 | 8.82 | 9.97 | 8.9 | 87.9 | |
| P4839-07 | EX-9-TPH-15 | 7 | 1.15 | 8.40 | 9.55 | 8.1 | 82.7 | |
| P4839-08 | EX-9-TPH-16 | 8 | 1.15 | 8.83 | 9.98 | 8.54 | 83.7 | |
| P4839-09 | EX-9-TPH-17 | 9 | 1.15 | 8.82 | 9.97 | 9.06 | 89.7 | |
| P4839-10 | EX-9-TPH-18 | 10 | 1.12 | 8.87 | 9.99 | 8.13 | 79.0 | |
| P4839-11 | EX-9-TPH-19 | 11 | 1.16 | 8.73 | 9.89 | 8.43 | 83.3 | |
| P4839-12 | EX-9-TPH-20 | 12 | 1.14 | 8.80 | 9.94 | 8.11 | 79.2 | |
| P4839-13 | EX-9-TPH-21 | 13 | 1.16 | 8.47 | 9.63 | 7.99 | 80.6 | |
| P4839-14 | EX-10-TPH-1 | 14 | 1.14 | 8.56 | 9.7 | 8.41 | 84.9 | |
| P4839-15 | EX-10-TPH-2 | 15 | 1.18 | 8.80 | 9.98 | 8.57 | 84.0 | |
| P4839-16 | EX-10-TPH-3 | 16 | 1.17 | 8.60 | 9.77 | 7.84 | 77.6 | |
| P4839-17 | EX-4-TPH-1 | 17 | 1.13 | 8.80 | 9.93 | 8.51 | 83.9 | |
| P4839-18 | EX-4-TPH-2 | 18 | 1.13 | 8.81 | 9.94 | 8.69 | 85.8 | |
| P4839-19 | EX-4-TPH-3 | 19 | 1.15 | 8.82 | 9.97 | 8.58 | 84.2 | |
| P4839-20 | EX-4-TPH-4 | 20 | 1.17 | 8.40 | 9.57 | 8.22 | 83.9 | |
| P4839-21 | EX-4-TPH-5 | 21 | 1.18 | 8.81 | 9.99 | 8.65 | 84.8 | |
| P4839-22 | EX-4-TPH-6 | 22 | 1.15 | 8.82 | 9.97 | 9.04 | 89.5 | |
| P4848-01 | TP-1 | 26 | 1.17 | 8.58 | 9.75 | 8.49 | 85.3 | |
| P4849-01 | RR-1 | 27 | 1.18 | 8.64 | 9.82 | 8.88 | 89.1 | |
| P4850-01 | OR-03-11142024 | 28 | 1.15 | 8.53 | 9.68 | 9.11 | 93.3 | |
| P4850-02 | OR-03-11142024-E2 | 29 | 1.18 | 8.60 | 9.78 | 8.81 | 88.7 | |
| P4852-01 | COMP-1 | 23 | 1.16 | 8.45 | 9.61 | 8.19 | 83.2 | |
| P4852-02 | COMP-2 | 24 | 1.17 | 8.60 | 9.77 | 8.17 | 81.4 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 11/15/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 16:50
**In Date:** 11/14/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:14
**Out Date:** 11/15/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133451

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P4852-03 | COMP-3 | 25 | 1.15 | 8.81 | 9.96 | 8.94 | 88.4 | |
| P4857-01 | ETGI-328 | 30 | 1.16 | 8.50 | 9.66 | 8.75 | 89.3 | |
| P4857-02 | ETGI-328-E2 | 31 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| P4857-03 | VNJ-226 | 32 | 1.18 | 8.72 | 9.9 | 9.37 | 93.9 | |
| P4857-04 | VNJ-226-E2 | 33 | 1.15 | 8.76 | 9.91 | 9.38 | 93.9 | |
| P4858-01 | BC258780-1-1 | 34 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-02 | BC258780-1-2 | 35 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-03 | BC258780-2-1 | 36 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-04 | BC258780-2-2 | 37 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-05 | HIH269B-1-1 | 38 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-06 | HIH269B-1-2 | 39 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-07 | BC225734-1-1 | 40 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-08 | BC225734-1-2 | 41 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-09 | BC225734-2-1 | 42 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-10 | BC225734-2-2 | 43 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-11 | BC248150-1-1 | 44 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-12 | BC248150-1-2 | 45 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-13 | Y2309-0044-1-1 | 46 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-14 | Y2309-0044-1-2 | 47 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-15 | BC274768-1-1 | 48 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-16 | BC274768-1-2 | 49 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-17 | BC274601-1-1 | 50 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4858-18 | BC274601-1-2 | 51 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4859-01 | NB-08-111424 | 52 | 1.18 | 8.54 | 9.72 | 9.03 | 91.9 | |
| P4859-02 | NB-08-111424-E2 | 53 | 1.19 | 8.52 | 9.71 | 9.04 | 92.1 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

VB 133451

**WorkList Name :** %1-111424 **WorkList ID :** 185415 **Department :** Wet-Chemistry **Date :** 11-14-2024 07:57:24

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4839-01 | EX-9-TPH-9 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-02 | EX-9-TPH-10 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-03 | EX-9-TPH-11 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-04 | EX-9-TPH-12 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-05 | EX-9-TPH-13 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-06 | EX-9-TPH-14 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-07 | EX-9-TPH-15 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-08 | EX-9-TPH-16 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-09 | EX-9-TPH-17 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-10 | EX-9-TPH-18 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-11 | EX-9-TPH-19 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-12 | EX-9-TPH-20 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-13 | EX-9-TPH-21 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-14 | EX-10-TPH-1 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-15 | EX-10-TPH-2 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-16 | EX-10-TPH-3 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-17 | EX-4-TPH-1 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-18 | EX-4-TPH-2 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-19 | EX-4-TPH-3 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-20 | EX-4-TPH-4 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4839-21 | EX-4-TPH-5 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |

**Date/Time** 11-14-24 16:10

**Raw Sample Received by:** JD (WC)

**Raw Sample Relinquished by:** RS (Ext-Lab)

**Date/Time** 11-14-24 17:10

**Raw Sample Received by:** RS (Ext-Lab)

**Raw Sample Relinquished by:** JD (WC)

# WORKLIST(Hardcopy Internal Chain)

VB 133451

**WorkList Name :** %1-111424 **WorkList ID :** 185415 **Department :** Wet-Chemistry **Date :** 11-14-2024 07:57:24

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4839-22 | EX-4-TPH-6 | Solid | Percent Solids | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | Chemtech -SO |
| P4848-01 | TP-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 11/14/2024 | Chemtech -SO |
| P4849-01 | RR-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L51 | 11/14/2024 | Chemtech -SO |
| P4850-01 | OR-03-11142024 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | L11 | 11/14/2024 | Chemtech -SO |
| P4850-02 | OR-03-11142024-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | L11 | 11/14/2024 | Chemtech -SO |
| P4852-01 | COMP-1 | Solid | Percent Solids | Cool 4 deg C | POWE02 | L41 | 11/13/2024 | Chemtech -SO |
| P4852-02 | COMP-2 | Solid | Percent Solids | Cool 4 deg C | POWE02 | L41 | 11/13/2024 | Chemtech -SO |
| P4852-03 | COMP-3 | Solid | Percent Solids | Cool 4 deg C | POWE02 | L41 | 11/13/2024 | Chemtech -SO |
| P4857-01 | ETGI-328 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 11/14/2024 | Chemtech -SO |
| P4857-02 | ETGI-328-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 11/14/2024 | Chemtech -SO |
| P4857-03 | VNJ-226 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 11/14/2024 | Chemtech -SO |
| P4857-04 | VNJ-226-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 11/14/2024 | Chemtech -SO |
| P4858-01 | BC258780-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-02 | BC258780-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-03 | BC258780-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-04 | BC258780-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-05 | HIH269B-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-06 | HIH269B-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-07 | BC225734-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-08 | BC225734-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-09 | BC225734-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |

**Date/Time** 11-14-24 16:10

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** RS (ESC Lab)

**Date/Time** 11-24-24 17:10

**Raw Sample Received by:** RS (ESC Lab)

**Raw Sample Relinquished by:** [signature]

# WORKLIST(Hardcopy Internal Chain)

JB 133451

**WorkList Name :** %1-111424 **WorkList ID :** 185415 **Department :** Wet-Chemistry **Date :** 11-14-2024 07:57:24

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4858-10 | BC225734-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-11 | BC248150-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-12 | BC248150-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-13 | Y2309-0044-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-14 | Y2309-0044-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-15 | BC274768-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-16 | BC274768-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-17 | BC274601-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4858-18 | BC274601-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/14/2024 | Chemtech -SO |
| P4859-01 | NB-08-111424 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | L41 | 11/14/2024 | Chemtech -SO |
| P4859-02 | NB-08-111424-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | L41 | 11/14/2024 | Chemtech -SO |

**Date/Time** 11-14-24 1610

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** RS (Ext-Lab)

**Date/Time** 11-14-24 1710

**Raw Sample Received by:** RS (Ext-Lab)

**Raw Sample Relinquished by:** [signature]


# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. QUOTE NO. P4852
COC Number 2042294

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 2 S Gold Drive
CITY Hamilton STATE: NJ ZIP: 08691
ATTENTION: Mark Warchol
PHONE: 609-584-5271 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: Webster School
PROJECT NO.: 25001986.001A LOCATION: Philadelphia, PA
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

### CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☑ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other

### ANALYSIS

PA TPC Clean Parameters Hold

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | COMP-1 | Soil | ✓ | | 11/13/24 | 9:40 | 3 | ✓ | | | | | | | | | |
| 2. | COMP-2 | ↓ | ↓ | | ↓ | 10:20 | ↓ | ↓ | | | | | | | | | |
| 3. | COMP-3 | ↓ | ↓ | | ↓ | 10:50 | ↓ | ↓ | | | | | | | | | |
| 4. | ~~SB-1~~ JC | ↓ | | ✓ | ↓ | | 1 | | ✓ | | | | | | | | |
| 5. | SB-2 | ↓ | | ↓ | ↓ | 9:25 | ↓ | | ↓ | | | | | | | | |
| 6. | SB-3 | ↓ | | ↓ | ↓ | 9:30 | ↓ | | ↓ | | | | | | | | |
| 7. | SB-4 | ↓ | | ↓ | ↓ | 9:35 | ↓ | | ↓ | | | | | | | | |
| 8. | SB-5 | ↓ | | ↓ | ↓ | 9:45 | ↓ | | ↓ | | | | | | | | |
| 9. | SB-6 | ↓ | | ↓ | ↓ | 9:50 | ↓ | | ↓ | | | | | | | | |
| 10. | SB-7 | ↓ | | ↓ | ↓ | 9:55 | ↓ | | ↓ | | | | | | | | |

PRESERVATIVES: 1 = E, 2 = E

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| | RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|---|
| 1. | | 11/13/24 15:15 | |
| 2. | | 11-14-24 1049 | |
| 3. | | | |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.3 °C
Comments: Place all grab samples on hold, no analysis until further notice
TR Cont #1

Page 1 of 2

CLIENT: ☐ Hand Delivered ✓ Other FedEx
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO



WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4852
QUOTE NO.
COC Number 2042293

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 2 S Gold Drive
CITY Hamilton STATE: NJ ZIP: 08691
ATTENTION: Mark Warchol
PHONE: 609-584-5271 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: Webster School
PROJECT NO.: 20001986.001A LOCATION: Philadelphia, PA
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

### CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 4 (QC + Full Raw Data)
- ☑ Level 2 (Results + QC)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

### ANALYSIS

PRESERVATIVES: E

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| Hold | | | | | | | | |

COMMENTS: ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | SB-8 | Soil | | ✓ | 11/13/24 | 10:15 | 1 | ✓ | | | | | | | | | |
| 2. | SB-9 | ↓ | | ↓ | ↓ | 10:25 | ↓ | ↓ | | | | | | | | | |
| 3. | SB-10 | | | | | 10:30 | | | | | | | | | | | |
| 4. | SB-11 | | | | | 10:40 | | | | | | | | | | | |
| 5. | SB-12 | | | ↓ | ↓ | 10:45 | ↓ | ↓ | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 11/13/24 15:15 | 1. |
| 2. | 11-14-24 1049 | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.3-C °C
Comments: Place all grab samples on hold, no analysis until further notice

Page 2 of 2

CLIENT: ☐ Hand Delivered ☑ Other Fed Ex
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO



WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255424 Rev 1 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | T104704488 |

Alliance TECHNICAL GROUP

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P4852 POWE02
**Client Name :** Kleinfelder
**Client Contact :** Mark Warchol
**Invoice Name :** Kleinfelder
**Invoice Contact :** Mark Warchol

**Order Date :** 11/14/2024 11:23:00 AM
**Project Name :** Webster School
**Receive DateTime :** 11/14/2024 10:49:00 AM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Results+QC
**EDD Type :** EXCEL NOCLEANUP
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P4852-01 | COMP-1 | Solid | 11/13/2024 | 09:40 | | | | | |
| | | | | | VOCMS Group1 | | 8260D | | 5 Bus. Days |
| P4852-02 | COMP-2 | Solid | 11/13/2024 | 10:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260D | | 5 Bus. Days |
| P4852-03 | COMP-3 | Solid | 11/13/2024 | 10:50 | | | | | |
| | | | | | VOCMS Group1 | | 8260D | | 5 Bus. Days |

**Relinguished By :** _____
**Date / Time :** 11-14-24 1233

**Received By :** _____
**Date / Time :** 11-14-24 12:33

**Storage Area :** VOA Refridgerator Room