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

# Cover Page

**Order ID :** Q1290

**Project ID :** 305 Central Ave, West Caldwell

**Client :** Sciacca General Contractors, LLC

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1290-01 | WASTE |
| Q1290-02 | VOC |
| Q1290-03 | 1 |
| Q1290-04 | 2 |
| Q1290-05 | 3 |
| Q1290-06 | 4 |
| Q1290-07 | 5 |

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: 2/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

# 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 #:** **Q1290**

| | 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:** **NILESH PRAJAPATI** **Date:** **02/11/2025**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1290 | **OrderDate:** | 2/4/2025 2:25:00 PM |
| **Client:** | Sciacca General Contractors, LLC | **Project:** | 305 Central Ave, West Caldwell |
| **Contact:** | Rosanne Scirica | **Location:** | D11,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1290-02** | **VOC** | **SOIL** | | | **02/04/25** | | | **02/04/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 02/07/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1290

**Client:** Sciacca General Contractors, LLC

| 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.:** Q1290

**Client:** Sciacca General Contractors, LLC

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|
| Q1290-02 | VOC | 1,2-Dichloroethane-d4 | 50 | 44.8 | 90 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.0 | 100 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 45.9 | 92 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 23.4 | 47 | * | 70 (29) | 130 (146) |
| VY0207SBL01 | VY0207SBL01 | 1,2-Dichloroethane-d4 | 50 | 51.3 | 103 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.4 | 99 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 49.6 | 99 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 47.6 | 95 | | 70 (29) | 130 (146) |
| VY0207SBS01 | VY0207SBS01 | 1,2-Dichloroethane-d4 | 50 | 45.4 | 91 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 43.2 | 86 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 43.0 | 86 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 44.4 | 89 | | 70 (29) | 130 (146) |
| VY0207SBSD01 | VY0207SBSD01 | 1,2-Dichloroethane-d4 | 50 | 56.6 | 113 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 54.4 | 109 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 54.5 | 109 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 56.1 | 112 | | 70 (29) | 130 (146) |

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**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q1290

**Client:** Sciacca General Contractors, LLC

**Analytical Method:** SW8260D **Datafile :** VY021132.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0207SBS01 | Dichlorodifluoromethane | 20 | 17.4 | ug/Kg | 87 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 18.1 | ug/Kg | 91 | | | 40 (70) | 160 (130) | |
| | Vinyl chloride | 20 | 17.8 | ug/Kg | 89 | | | 70 (72) | 130 (129) | |
| | Bromomethane | 20 | 18.0 | ug/Kg | 90 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 18.6 | ug/Kg | 93 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 18.5 | ug/Kg | 93 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 18.5 | ug/Kg | 93 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 18.3 | ug/Kg | 92 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 100 | ug/Kg | 100 | | | 40 (60) | 160 (131) | |
| | Carbon disulfide | 20 | 15.7 | ug/Kg | 79 | | | 40 (45) | 160 (154) | |
| | Methyl tert-butyl Ether | 20 | 20.0 | ug/Kg | 100 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 20.3 | ug/Kg | 102 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 19.5 | ug/Kg | 98 | | | 70 (56) | 130 (174) | |
| | trans-1,2-Dichloroethene | 20 | 18.4 | ug/Kg | 92 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 19.4 | ug/Kg | 97 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 17.9 | ug/Kg | 90 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 100 | ug/Kg | 100 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 18.1 | ug/Kg | 91 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 19.1 | ug/Kg | 96 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 19.8 | ug/Kg | 99 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 19.6 | ug/Kg | 98 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 19.2 | ug/Kg | 96 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 17.5 | ug/Kg | 88 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 18.5 | ug/Kg | 93 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 19.2 | ug/Kg | 96 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 18.4 | ug/Kg | 92 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 19.1 | ug/Kg | 96 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 19.3 | ug/Kg | 97 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/Kg | 100 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 18.8 | ug/Kg | 94 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 19.3 | ug/Kg | 97 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 19.0 | ug/Kg | 95 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 19.6 | ug/Kg | 98 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 100 | ug/Kg | 100 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 19.2 | ug/Kg | 96 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 19.3 | ug/Kg | 97 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 18.3 | ug/Kg | 92 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 19.1 | ug/Kg | 96 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 19.0 | ug/Kg | 95 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 38.2 | ug/Kg | 96 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 19.3 | ug/Kg | 97 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 19.6 | ug/Kg | 98 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 20.4 | ug/Kg | 102 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 18.5 | ug/Kg | 93 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 19.2 | ug/Kg | 96 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 18.7 | ug/Kg | 94 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 18.8 | ug/Kg | 94 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 19.4 | ug/Kg | 97 | | | 70 (83) | 130 (124) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1290

**Client:** Sciacca General Contractors, LLC

**Analytical Method:** SW8260D **Datafile :** VY021132.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0207SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 20.9 | ug/Kg | 104 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 19.6 | ug/Kg | 98 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 20.1 | ug/Kg | 101 | | | 70 (70) | 130 (137) | |

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**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q1290

**Client:** Sciacca General Contractors, LLC

**Analytical Method:** SW8260D **Datafile :** VY021133.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0207SBSD01 | Dichlorodifluoromethane | 20 | 20.6 | ug/Kg | 103 | 17 | | 40 (64) | 160 (136) | 30 (20) |
| | Chloromethane | 20 | 20.2 | ug/Kg | 101 | 10 | | 40 (70) | 160 (130) | 30 (20) |
| | Vinyl chloride | 20 | 20.3 | ug/Kg | 102 | 14 | | 70 (72) | 130 (129) | 30 (20) |
| | Bromomethane | 20 | 20.6 | ug/Kg | 103 | 13 | | 40 (58) | 160 (141) | 30 (20) |
| | Chloroethane | 20 | 21.6 | ug/Kg | 108 | 15 | | 40 (69) | 160 (130) | 30 (20) |
| | Trichlorofluoromethane | 20 | 21.4 | ug/Kg | 107 | 14 | | 40 (69) | 160 (134) | 30 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 22.2 | ug/Kg | 111 | 18 | | 70 (81) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethene | 20 | 21.0 | ug/Kg | 105 | 13 | | 70 (79) | 130 (121) | 30 (20) |
| | Acetone | 100 | 120 | ug/Kg | 120 | 18 | | 40 (60) | 160 (131) | 30 (20) |
| | Carbon disulfide | 20 | 17.9 | ug/Kg | 90 | 13 | | 40 (45) | 160 (154) | 30 (20) |
| | Methyl tert-butyl Ether | 20 | 23.9 | ug/Kg | 119 | 17 | | 70 (77) | 130 (129) | 30 (20) |
| | Methyl Acetate | 20 | 24.2 | ug/Kg | 121 | 17 | | 70 (69) | 130 (149) | 30 (20) |
| | Methylene Chloride | 20 | 22.9 | ug/Kg | 115 | 16 | | 70 (56) | 130 (174) | 30 (20) |
| | trans-1,2-Dichloroethene | 20 | 21.4 | ug/Kg | 107 | 15 | | 70 (80) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethane | 20 | 22.8 | ug/Kg | 114 | 16 | | 70 (82) | 130 (123) | 30 (20) |
| | Cyclohexane | 20 | 21.1 | ug/Kg | 106 | 16 | | 70 (76) | 130 (122) | 30 (20) |
| | 2-Butanone | 100 | 130 | ug/Kg | 130 | 26 | | 40 (69) | 160 (131) | 30 (20) |
| | Carbon Tetrachloride | 20 | 21.5 | ug/Kg | 108 | 17 | | 70 (76) | 130 (129) | 30 (20) |
| | cis-1,2-Dichloroethene | 20 | 22.7 | ug/Kg | 114 | 17 | | 70 (82) | 130 (123) | 30 (20) |
| | Bromochloromethane | 20 | 23.6 | ug/Kg | 118 | 18 | | 70 (80) | 130 (127) | 30 (20) |
| | Chloroform | 20 | 23.2 | ug/Kg | 116 | 17 | | 70 (82) | 130 (125) | 30 (20) |
| | 1,1,1-Trichloroethane | 20 | 22.3 | ug/Kg | 112 | 15 | | 70 (80) | 130 (126) | 30 (20) |
| | Methylcyclohexane | 20 | 21.0 | ug/Kg | 105 | 18 | | 70 (77) | 130 (123) | 30 (20) |
| | Benzene | 20 | 21.9 | ug/Kg | 110 | 17 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichloroethane | 20 | 22.9 | ug/Kg | 115 | 18 | | 70 (81) | 130 (126) | 30 (20) |
| | Trichloroethene | 20 | 21.3 | ug/Kg | 106 | 14 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,2-Dichloropropane | 20 | 22.7 | ug/Kg | 114 | 17 | | 70 (83) | 130 (122) | 30 (20) |
| | Bromodichloromethane | 20 | 23.2 | ug/Kg | 116 | 18 | | 70 (82) | 130 (123) | 30 (20) |
| | 4-Methyl-2-Pentanone | 100 | 120 | ug/Kg | 120 | 18 | | 40 (70) | 160 (135) | 30 (20) |
| | Toluene | 20 | 22.3 | ug/Kg | 112 | 17 | | 70 (83) | 130 (122) | 30 (20) |
| | t-1,3-Dichloropropene | 20 | 22.6 | ug/Kg | 113 | 15 | | 70 (78) | 130 (124) | 30 (20) |
| | cis-1,3-Dichloropropene | 20 | 22.9 | ug/Kg | 115 | 19 | | 70 (81) | 130 (122) | 30 (20) |
| | 1,1,2-Trichloroethane | 20 | 23.7 | ug/Kg | 119 | 19 | | 70 (82) | 130 (125) | 30 (20) |
| | 2-Hexanone | 100 | 120 | ug/Kg | 120 | 18 | | 40 (66) | 160 (138) | 30 (20) |
| | Dibromochloromethane | 20 | 22.7 | ug/Kg | 114 | 17 | | 70 (79) | 130 (125) | 30 (20) |
| | 1,2-Dibromoethane | 20 | 23.3 | ug/Kg | 117 | 19 | | 70 (80) | 130 (125) | 30 (20) |
| | Tetrachloroethene | 20 | 21.4 | ug/Kg | 107 | 15 | | 70 (83) | 130 (125) | 30 (20) |
| | Chlorobenzene | 20 | 22.3 | ug/Kg | 112 | 15 | | 70 (84) | 130 (122) | 30 (20) |
| | Ethyl Benzene | 20 | 22.2 | ug/Kg | 111 | 16 | | 70 (82) | 130 (124) | 30 (20) |
| | m/p-Xylenes | 40 | 44.7 | ug/Kg | 112 | 15 | | 70 (83) | 130 (124) | 30 (20) |
| | o-Xylene | 20 | 22.8 | ug/Kg | 114 | 16 | | 70 (83) | 130 (123) | 30 (20) |
| | Styrene | 20 | 23.2 | ug/Kg | 116 | 17 | | 70 (82) | 130 (124) | 30 (20) |
| | Bromoform | 20 | 24.0 | ug/Kg | 120 | 16 | | 70 (75) | 130 (127) | 30 (20) |
| | Isopropylbenzene | 20 | 22.2 | ug/Kg | 111 | 18 | | 70 (82) | 130 (124) | 30 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 23.2 | ug/Kg | 116 | 19 | | 70 (77) | 130 (127) | 30 (20) |
| | 1,3-Dichlorobenzene | 20 | 22.7 | ug/Kg | 114 | 19 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,4-Dichlorobenzene | 20 | 22.8 | ug/Kg | 114 | 19 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichlorobenzene | 20 | 22.9 | ug/Kg | 115 | 17 | | 70 (83) | 130 (124) | 30 (20) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1290

**Client:** Sciacca General Contractors, LLC

**Analytical Method:** SW8260D **Datafile :** VY021133.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY0207SBSD01** | 1,2-Dibromo-3-Chloropropane | 20 | 25.0 | ug/Kg | 125 | 18 | | 40 (66) | 160 (134) | 30 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 23.4 | ug/Kg | 117 | 18 | | 70 (78) | 130 (127) | 30 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 24.0 | ug/Kg | 120 | 17 | | 70 (70) | 130 (137) | 30 (20) |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0207SBL01

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG NO.: Q1290

Lab File ID: VY021131.D Lab Sample ID: VY0207SBL01

Date Analyzed: 02/07/2025 Time Analyzed: 10:08

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 |
|---|---|---|---|
| VY0207SBS01 | VY0207SBS01 | VY021132.D | 02/07/2025 |
| VY0207SBSD01 | VY0207SBSD01 | VY021133.D | 02/07/2025 |
| VOC | Q1290-02 | VY021138.D | 02/07/2025 |

COMMENTS:

Raw Data: **VY021019.D**

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

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG NO.: Q1290

Lab File ID: VY021019.D BFB Injection Date: 02/03/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:51

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 | 15.3 |
| 75 | 30.0 - 60.0% of mass 95 | 49 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.3 ( 0.4 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 89.7 |
| 175 | 5.0 - 9.0% of mass 174 | 7 ( 7.8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 87 ( 97 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.9 ( 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 | VY021020.D | 02/03/2025 | 10:35 |
| VSTDICC010 | VSTDICC010 | VY021021.D | 02/03/2025 | 10:57 |
| VSTDICC020 | VSTDICC020 | VY021022.D | 02/03/2025 | 11:20 |
| VSTDICCC050 | VSTDICCC050 | VY021023.D | 02/03/2025 | 11:43 |
| VSTDICC100 | VSTDICC100 | VY021024.D | 02/03/2025 | 12:21 |
| VSTDICC150 | VSTDICC150 | VY021025.D | 02/03/2025 | 12:44 |

Raw Data: **VY021129.D**

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Fax : 908 789 8922

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

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG NO.: Q1290

Lab File ID: VY021129.D BFB Injection Date: 02/07/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:01

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 | 19.6 |
| 75 | 30.0 - 60.0% of mass 95 | 53.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 87.2 |
| 175 | 5.0 - 9.0% of mass 174 | 6.9 ( 7.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 82.9 ( 95 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.6 ( 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 |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY021130.D | 02/07/2025 | 09:31 |
| VY0207SBL01 | VY0207SBL01 | VY021131.D | 02/07/2025 | 10:08 |
| VY0207SBS01 | VY0207SBS01 | VY021132.D | 02/07/2025 | 11:13 |
| VY0207SBSD01 | VY0207SBSD01 | VY021133.D | 02/07/2025 | 11:36 |
| VOC | Q1290-02 | VY021138.D | 02/07/2025 | 14:39 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG NO.: Q1290

Lab File ID: VY021130.D Date Analyzed: 02/07/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:31

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 | 195996 | 7.72 | 297405 | 8.62 | 257416 | 11.43 |
| UPPER LIMIT | 391992 | 8.219 | 594810 | 9.122 | 514832 | 11.926 |
| LOWER LIMIT | 97998 | 7.219 | 148703 | 8.122 | 128708 | 10.926 |
| EPA SAMPLE NO. | | | | | | |
| VOC | 11811 * | 7.71 | 17126 * | 8.62 | 12326 * | 11.42 |
| VY0207SBL01 | 222650 | 7.72 | 403911 | 8.62 | 364645 | 11.43 |
| VY0207SBS01 | 185601 | 7.71 | 293384 | 8.62 | 248895 | 11.42 |
| VY0207SBSD01 | 168157 | 7.71 | 264979 | 8.62 | 227375 | 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: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG NO.: Q1290

Lab File ID: VY021130.D Date Analyzed: 02/07/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:31

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

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 124211 | | 13.352 | | | | |
| UPPER LIMIT | 248422 | | 13.852 | | | | |
| LOWER LIMIT | 62105.5 | | 12.852 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| VOC | 2084 | * | 13.35 | | | | |
| VY0207SBL01 | 133881 | | 13.35 | | | | |
| VY0207SBS01 | 123887 | | 13.35 | | | | |
| VY0207SBSD01 | 111644 | | 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: **VY021138.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | 02/04/25 |
| Project: | 305 Central Ave, West Caldwell | Date Received: | 02/04/25 |
| Client Sample ID: | VOC | SDG No.: | Q1290 |
| Lab Sample ID: | Q1290-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 84.9 |
| Sample Wt/Vol: | 5.03 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021138.D | 1 | | 02/07/25 14:39 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.90 | U | 1.90 | 5.90 | ug/Kg |
| 74-87-3 | Chloromethane | 1.40 | U | 1.40 | 5.90 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.90 | U | 0.90 | 5.90 | ug/Kg |
| 74-83-9 | Bromomethane | 1.20 | U | 1.20 | 5.90 | ug/Kg |
| 75-00-3 | Chloroethane | 1.20 | U | 1.20 | 5.90 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.10 | U | 1.10 | 5.90 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.30 | U | 1.30 | 5.90 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.91 | U | 0.91 | 5.90 | ug/Kg |
| 67-64-1 | Acetone | 7.30 | U | 7.30 | 29.3 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.50 | U | 1.50 | 5.90 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.78 | U | 0.78 | 5.90 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.10 | U | 2.10 | 5.90 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.00 | U | 4.00 | 11.7 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.98 | U | 0.98 | 5.90 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.74 | U | 0.74 | 5.90 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.81 | U | 0.81 | 5.90 | ug/Kg |
| 78-93-3 | 2-Butanone | 6.70 | U | 6.70 | 29.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.00 | U | 1.00 | 5.90 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.71 | U | 0.71 | 5.90 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.80 | U | 2.80 | 5.90 | ug/Kg |
| 67-66-3 | Chloroform | 0.78 | U | 0.78 | 5.90 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.91 | U | 0.91 | 5.90 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.00 | U | 1.00 | 5.90 | ug/Kg |
| 71-43-2 | Benzene | 0.84 | U | 0.84 | 5.90 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.71 | U | 0.71 | 5.90 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.88 | U | 0.88 | 5.90 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.77 | U | 0.77 | 5.90 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.66 | U | 0.66 | 5.90 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.10 | U | 5.10 | 29.3 | ug/Kg |
| 108-88-3 | Toluene | 0.78 | U | 0.78 | 5.90 | ug/Kg |

Raw Data: **VY021138.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | 02/04/25 |
| Project: | 305 Central Ave, West Caldwell | Date Received: | 02/04/25 |
| Client Sample ID: | VOC | SDG No.: | Q1290 |
| Lab Sample ID: | Q1290-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 84.9 |
| Sample Wt/Vol: | 5.03 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021138.D | 1 | | 02/07/25 14:39 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.70 | U | 0.70 | 5.90 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.67 | U | 0.67 | 5.90 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.98 | U | 0.98 | 5.90 | ug/Kg |
| 591-78-6 | 2-Hexanone | 5.60 | U | 5.60 | 29.3 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.76 | U | 0.76 | 5.90 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.92 | U | 0.92 | 5.90 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.00 | U | 1.00 | 5.90 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.87 | U | 0.87 | 5.90 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.73 | U | 0.73 | 5.90 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.60 | U | 1.60 | 11.7 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.90 | ug/Kg |
| 100-42-5 | Styrene | 0.70 | U | 0.70 | 5.90 | ug/Kg |
| 75-25-2 | Bromoform | 0.95 | U | 0.95 | 5.90 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.90 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.30 | U | 1.30 | 5.90 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.87 | U | 0.87 | 5.90 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.94 | U | 0.94 | 5.90 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.69 | U | 0.69 | 5.90 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.90 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.92 | U | 0.92 | 5.90 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.91 | U | 0.91 | 5.90 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 44.8 | | 70 (50) - 130 (163) | 90% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.0 | | 70 (54) - 130 (147) | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.9 | | 70 (58) - 130 (134) | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 23.4 | * | 70 (29) - 130 (146) | 47% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 11800 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 17100 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 12300 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2080 | 13.353 | | | |

Raw Data: **VY021138.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | 02/04/25 |
| Project: | 305 Central Ave, West Caldwell | Date Received: | 02/04/25 |
| Client Sample ID: | VOC | SDG No.: | Q1290 |
| Lab Sample ID: | Q1290-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 84.9 |
| Sample Wt/Vol: | 5.03 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021138.D | 1 | | 02/07/25 14:39 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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\VY020725\
Data File : VY021138.D
Acq On : 07 Feb 2025 14:39
Operator : SY/MD
Sample : Q1290-02
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Quant Time: Feb 08 02:41:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 11811 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 17126 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 12326 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 2084 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 5416 | 44.755 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 89.520% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 5491 | 50.030 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.060% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 19177 | 45.895 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 91.800% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 3199 | 23.435 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 46.860% | | | |

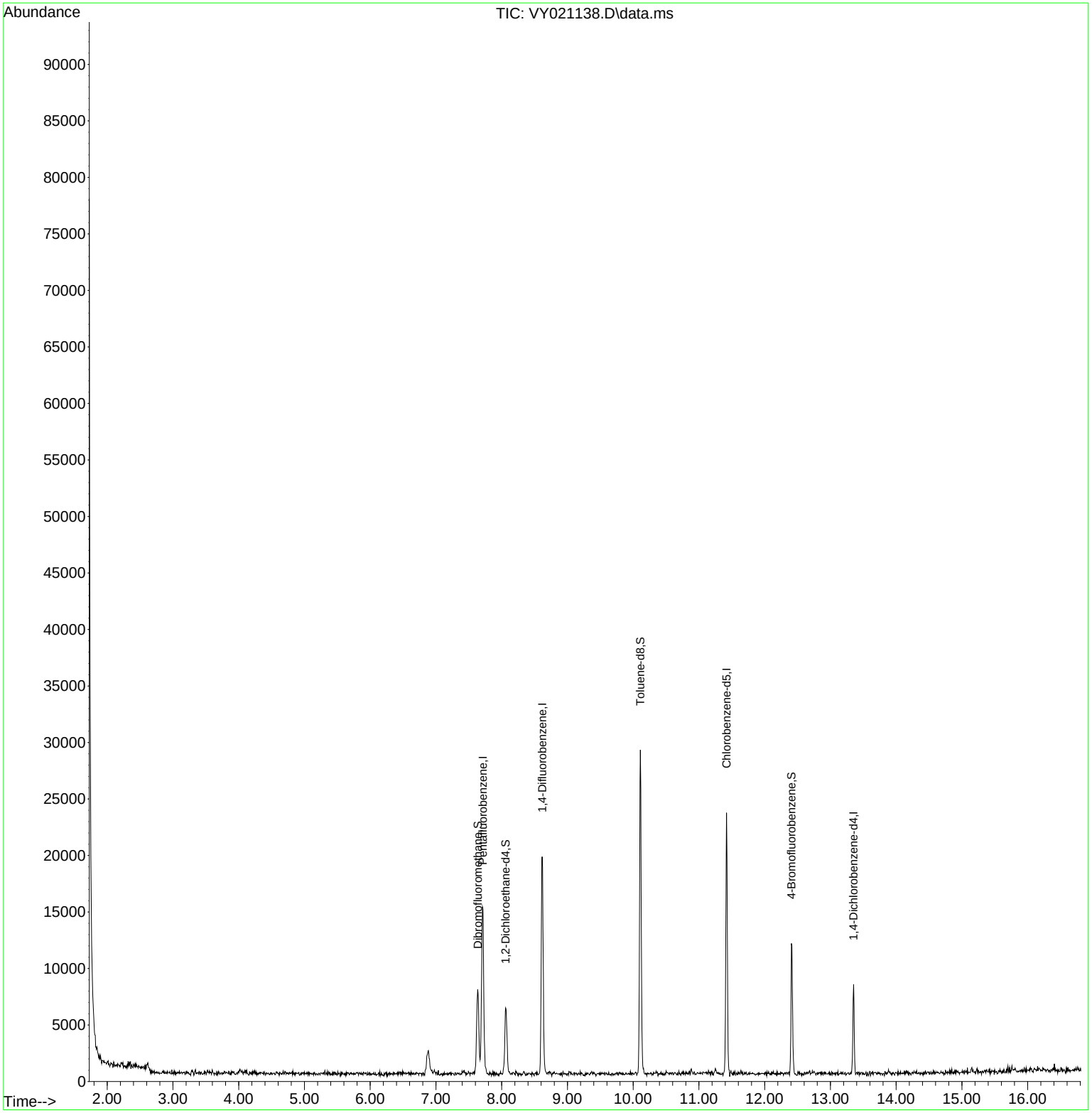
Target Compounds Qvalue

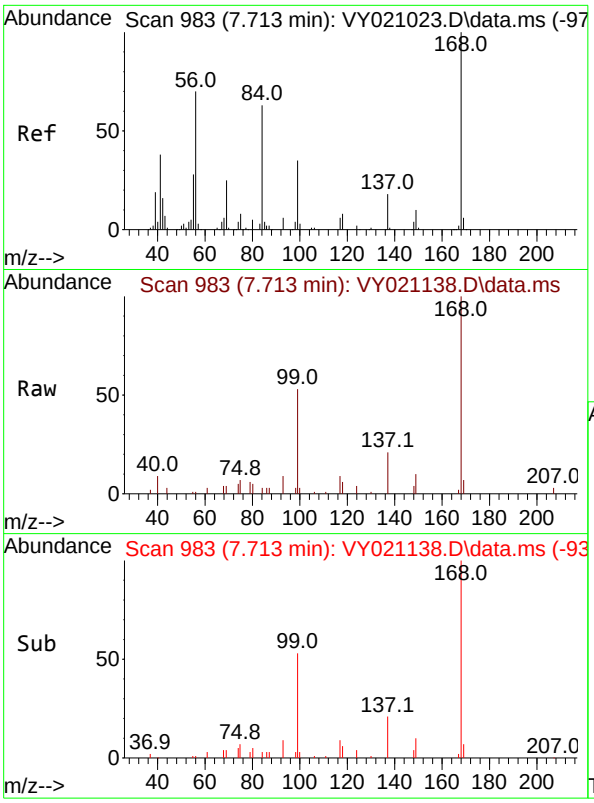
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021138.D
Acq On : 07 Feb 2025 14:39
Operator : SY/MD
Sample : Q1290-02
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Quant Time: Feb 08 02:41:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration



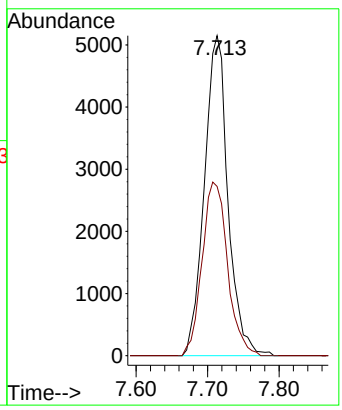


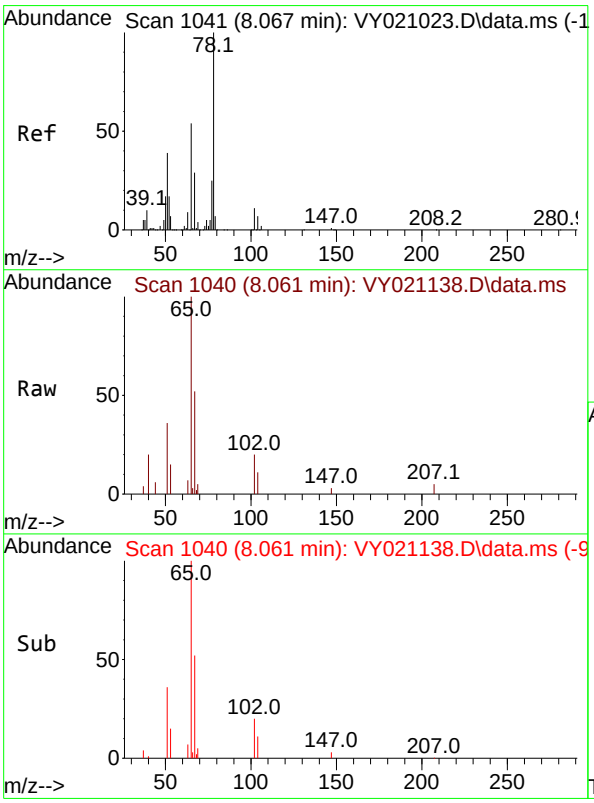

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021138.D
Acq: 07 Feb 2025 14:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Tgt Ion:168 Resp: 11811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.9 | 44.2 | 66.4 |

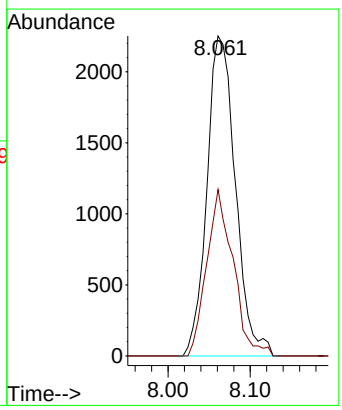


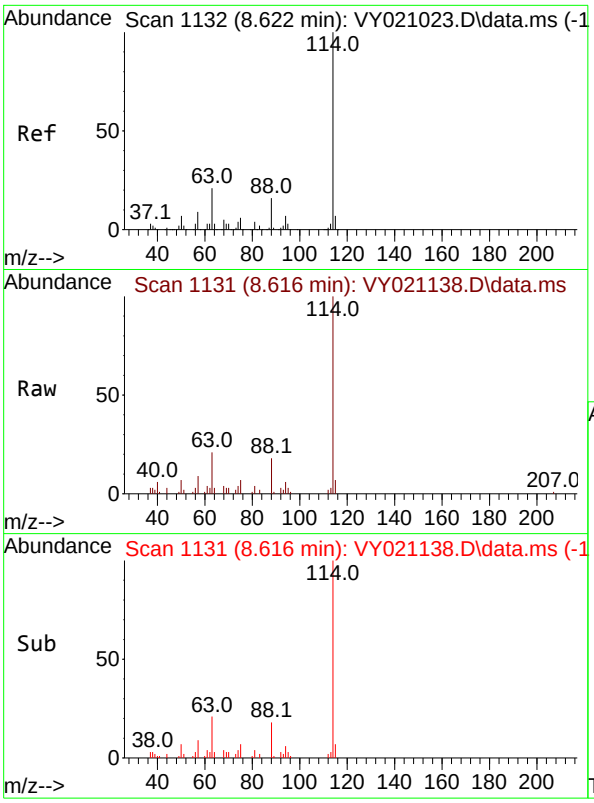




#33
1,2-Dichloroethane-d4
Concen: 44.755 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021138.D
Acq: 07 Feb 2025 14:39

Tgt Ion: 65 Resp: 5416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.4 | 0.0 | 109.0 |



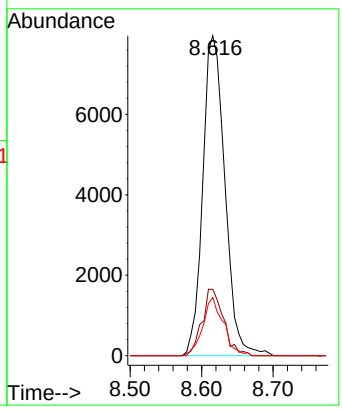


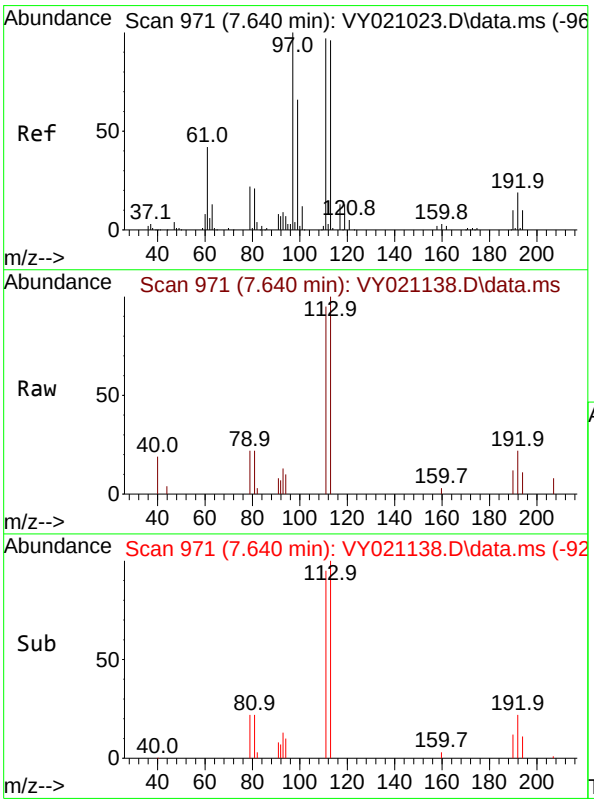

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021138.D
Acq: 07 Feb 2025 14:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Tgt Ion:114 Resp: 17126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 37.4 |
| 88 | 18.2 | 0.0 | 29.0 |

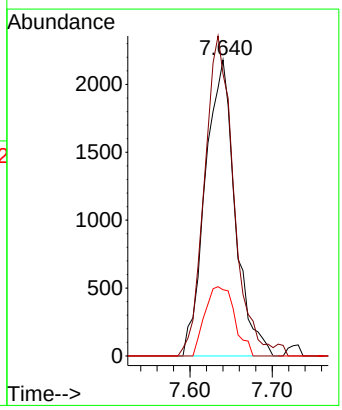


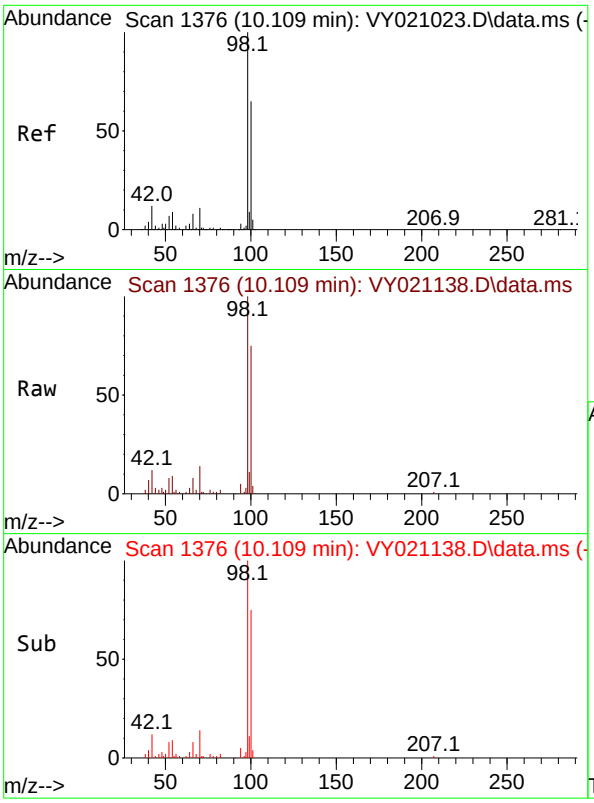




#35
Dibromofluoromethane
Concen: 50.030 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY021138.D
Acq: 07 Feb 2025 14:39

Tgt Ion:113 Resp: 5491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 106.3 | 83.8 | 125.6 |
| 192 | 23.3 | 14.5 | 21.7# |



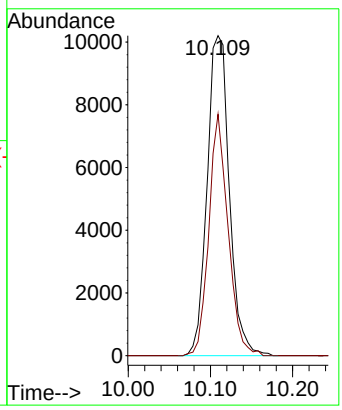


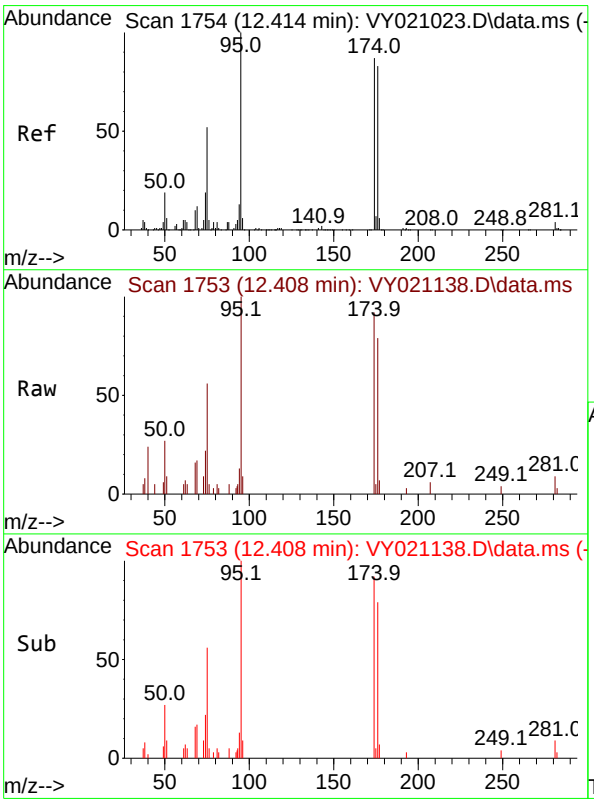

#50
Toluene-d8
Concen: 45.895 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021138.D
Acq: 07 Feb 2025 14:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Tgt Ion: 98 Resp: 19177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.3 | 78.5 |

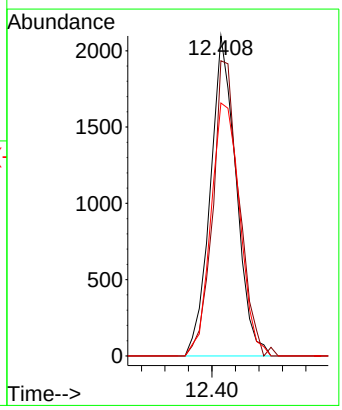


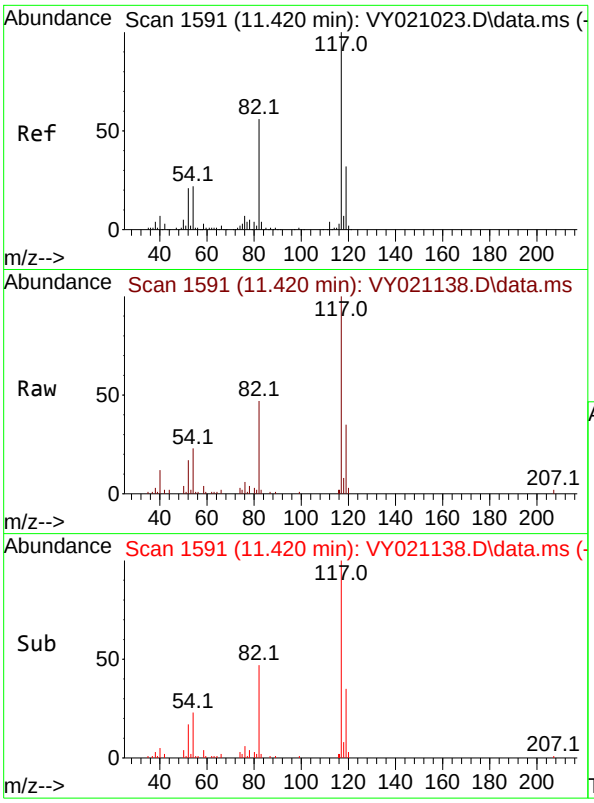




#62
4-Bromofluorobenzene
Concen: 23.435 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021138.D
Acq: 07 Feb 2025 14:39

Tgt Ion: 95 Resp: 3199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 94.3 | 0.0 | 160.0 |
| 176 | 88.4 | 0.0 | 151.8 |



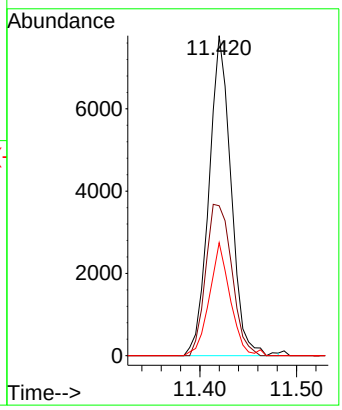


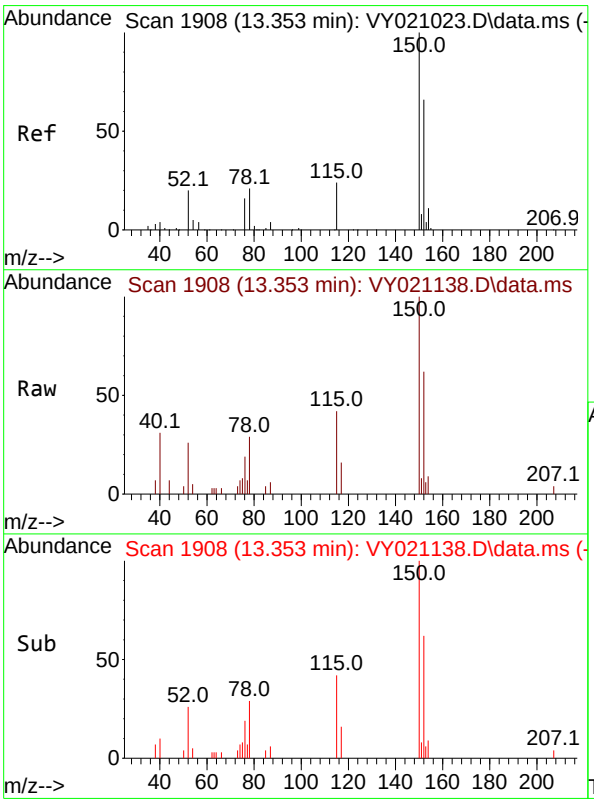

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021138.D
Acq: 07 Feb 2025 14:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Tgt Ion:117 Resp: 12326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 46.8 | 43.8 | 65.8 |
| 119 | 35.3 | 26.5 | 39.7 |

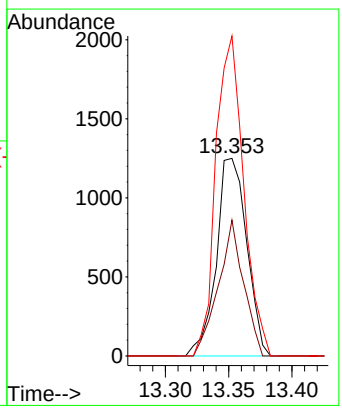



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VY021138.D
Acq: 07 Feb 2025 14:39

Tgt Ion:152 Resp: 2084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.1 | 30.0 | 90.0 |
| 150 | 148.6 | 0.0 | 344.6 |



Sample Results: **VY021138.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021138.D
Acq On : 07 Feb 2025 14:39
Operator : SY/MD
Sample : Q1290-02
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Title : SW846 8260

Signal : TIC: VY021138.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.293 | 254 | 258 | 262 | rVB3 | 478 | 845 | 1.65% | 0.355% |
| 2 | 6.884 | 840 | 847 | 855 | rVB3 | 1777 | 4741 | 9.24% | 1.994% |
| 3 | 7.634 | 962 | 970 | 976 | rBV2 | 7479 | 17994 | 35.06% | 7.570% |
| 4 | 7.707 | 976 | 982 | 994 | rVB2 | 14766 | 34671 | 67.56% | 14.585% |
| 5 | 8.061 | 1031 | 1040 | 1048 | rBV3 | 5873 | 14018 | 27.31% | 5.897% |
| 6 | 8.616 | 1121 | 1131 | 1144 | rBV | 19299 | 40903 | 79.70% | 17.207% |
| 7 | 10.109 | 1367 | 1376 | 1387 | rBV | 28794 | 51322 | 100.00% | 21.590% |
| 8 | 10.883 | 1500 | 1503 | 1508 | rBV2 | 535 | 752 | 1.47% | 0.316% |
| 9 | 11.249 | 1558 | 1563 | 1567 | rBV4 | 594 | 1085 | 2.11% | 0.456% |
| 10 | 11.420 | 1582 | 1591 | 1599 | rVB2 | 23337 | 38819 | 75.64% | 16.330% |
| 11 | 11.487 | 1599 | 1602 | 1606 | rBV2 | 502 | 783 | 1.53% | 0.329% |
| 12 | 12.408 | 1748 | 1753 | 1761 | rBV3 | 11642 | 19657 | 38.30% | 8.269% |
| 13 | 13.353 | 1903 | 1908 | 1913 | rVB2 | 7980 | 11325 | 22.07% | 4.764% |
| 14 | 15.761 | 2299 | 2303 | 2306 | rBV2 | 610 | 798 | 1.55% | 0.336% |

Sum of corrected areas: 237713

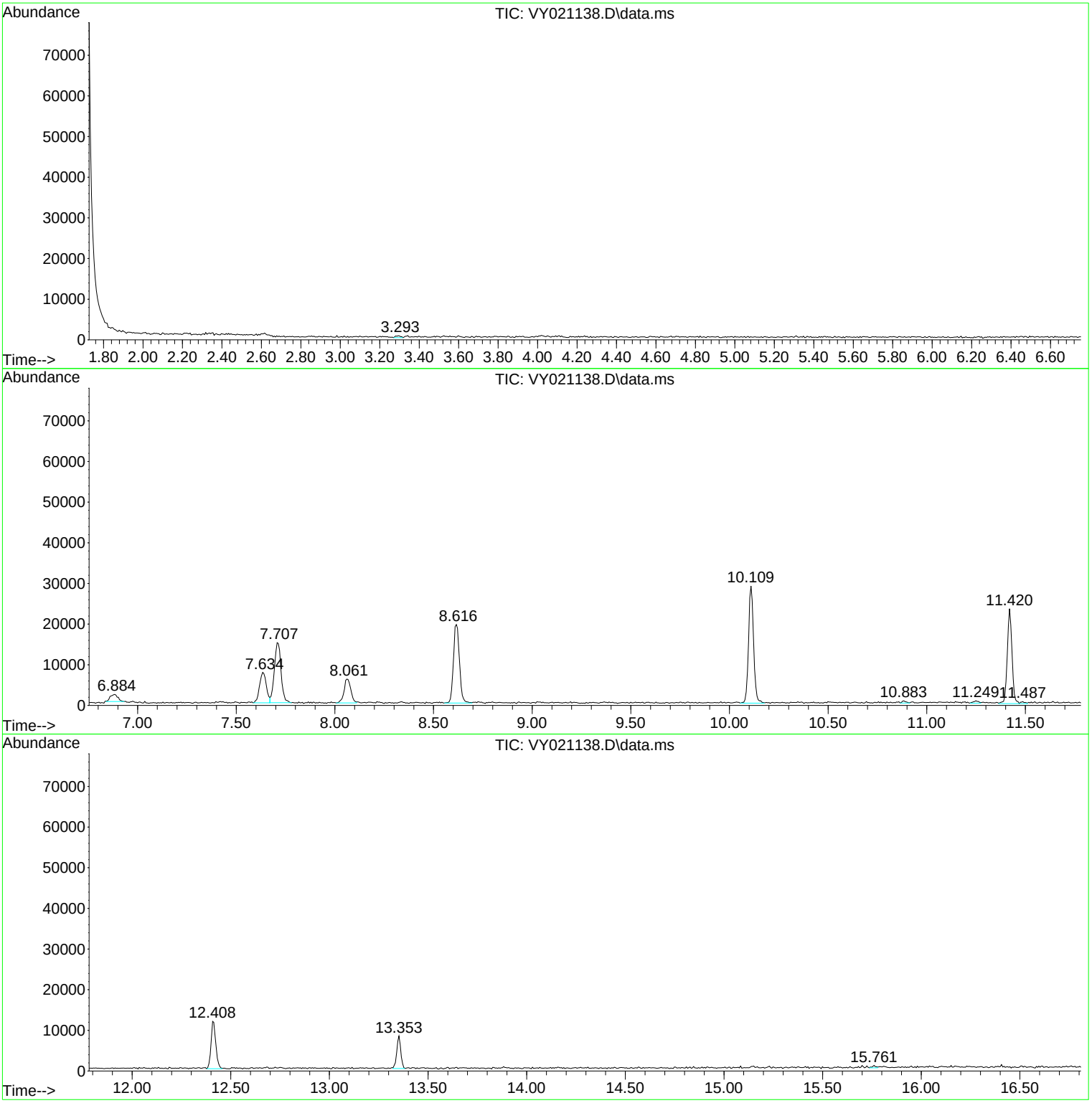
Sample Results: **VY021138.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021138.D
Acq On : 07 Feb 2025 14:39
Operator : SY/MD
Sample : Q1290-02
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021138.D
Acq On : 07 Feb 2025 14:39
Operator : SY/MD
Sample : Q1290-02
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021138.D
Acq On : 07 Feb 2025 14:39
Operator : SY/MD
Sample : Q1290-02
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VOC

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG No.: Q1290

Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44

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

LAB FILE ID: RRF005 = VY021020.D RRF010 = VY021021.D RRF020 = VY021022.D
RRF050 = VY021023.D RRF100 = VY021024.D RRF150 = VY021025.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.503 | 0.438 | 0.413 | 0.445 | 0.419 | 0.457 | 0.446 | 7.2 |
| Chloromethane | 0.524 | 0.445 | 0.408 | 0.421 | 0.404 | 0.437 | 0.440 | 10.1 |
| Vinyl Chloride | 0.535 | 0.441 | 0.404 | 0.424 | 0.408 | 0.443 | 0.443 | 10.9 |
| Bromomethane | 0.356 | 0.275 | 0.249 | 0.258 | 0.246 | 0.257 | 0.274 | 15.2 |
| Chloroethane | 0.316 | 0.270 | 0.240 | 0.255 | 0.239 | 0.261 | 0.263 | 10.7 |
| Trichlorofluoromethane | 0.924 | 0.814 | 0.755 | 0.789 | 0.743 | 0.813 | 0.806 | 8 |
| 1,1,2-Trichlorotrifluoroethane | 0.587 | 0.507 | 0.472 | 0.494 | 0.466 | 0.510 | 0.506 | 8.6 |
| 1,1-Dichloroethene | 0.529 | 0.471 | 0.441 | 0.469 | 0.452 | 0.498 | 0.477 | 6.8 |
| Acetone | 0.087 | 0.083 | 0.078 | 0.077 | 0.070 | 0.083 | 0.080 | 7.5 |
| Carbon Disulfide | 1.673 | 1.456 | 1.389 | 1.475 | 1.421 | 1.556 | 1.495 | 7 |
| Methyl tert-butyl Ether | 1.271 | 1.185 | 1.168 | 1.216 | 1.124 | 1.265 | 1.205 | 4.8 |
| Methyl Acetate | 0.300 | 0.282 | 0.268 | 0.287 | 0.253 | 0.291 | 0.280 | 6.1 |
| Methylene Chloride | 0.570 | 0.506 | 0.473 | 0.485 | 0.452 | 0.494 | 0.497 | 8.2 |
| trans-1,2-Dichloroethene | 0.578 | 0.518 | 0.502 | 0.522 | 0.490 | 0.538 | 0.525 | 5.8 |
| 1,1-Dichloroethane | 1.104 | 0.948 | 0.923 | 0.947 | 0.911 | 0.989 | 0.970 | 7.3 |
| Cyclohexane | 1.093 | 0.885 | 0.807 | 0.827 | 0.779 | 0.852 | 0.874 | 13 |
| 2-Butanone | 0.134 | 0.133 | 0.126 | 0.135 | 0.121 | 0.139 | 0.131 | 5.2 |
| Carbon Tetrachloride | 0.604 | 0.551 | 0.522 | 0.547 | 0.522 | 0.581 | 0.555 | 5.9 |
| cis-1,2-Dichloroethene | 0.662 | 0.584 | 0.577 | 0.599 | 0.575 | 0.626 | 0.604 | 5.7 |
| Bromochloromethane | 0.373 | 0.368 | 0.381 | 0.413 | 0.374 | 0.394 | 0.384 | 4.4 |
| Chloroform | 1.107 | 1.016 | 0.947 | 0.982 | 0.921 | 1.006 | 0.997 | 6.5 |
| 1,1,1-Trichloroethane | 1.067 | 0.901 | 0.867 | 0.912 | 0.863 | 0.949 | 0.927 | 8.2 |
| Methylcyclohexane | 0.609 | 0.550 | 0.536 | 0.588 | 0.570 | 0.629 | 0.581 | 6.1 |
| Benzene | 1.512 | 1.382 | 1.327 | 1.378 | 1.323 | 1.436 | 1.393 | 5.1 |
| 1,2-Dichloroethane | 0.435 | 0.390 | 0.367 | 0.379 | 0.352 | 0.395 | 0.386 | 7.4 |
| Trichloroethene | 0.401 | 0.355 | 0.341 | 0.349 | 0.338 | 0.375 | 0.360 | 6.7 |
| 1,2-Dichloropropane | 0.357 | 0.329 | 0.319 | 0.327 | 0.311 | 0.341 | 0.331 | 5 |
| Bromodichloromethane | 0.528 | 0.500 | 0.469 | 0.482 | 0.459 | 0.506 | 0.491 | 5.2 |
| 4-Methyl-2-Pentanone | 0.202 | 0.211 | 0.202 | 0.216 | 0.194 | 0.224 | 0.208 | 5.2 |
| Toluene | 0.913 | 0.856 | 0.840 | 0.876 | 0.844 | 0.918 | 0.875 | 3.9 |

* 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.

Raw Data

Alliance TECHNICAL GROUP

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG No.: Q1290

Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44

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

LAB FILE ID: RRF005 = VY021020.D RRF010 = VY021021.D RRF020 = VY021022.D
RRF050 = VY021023.D RRF100 = VY021024.D RRF150 = VY021025.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.441 | 0.426 | 0.419 | 0.449 | 0.427 | 0.483 | 0.441 | 5.3 |
| cis-1,3-Dichloropropene | 0.528 | 0.516 | 0.502 | 0.525 | 0.501 | 0.560 | 0.522 | 4.2 |
| 1,1,2-Trichloroethane | 0.261 | 0.235 | 0.231 | 0.235 | 0.217 | 0.242 | 0.237 | 6.1 |
| 2-Hexanone | 0.124 | 0.131 | 0.128 | 0.144 | 0.129 | 0.149 | 0.134 | 7.4 |
| Dibromochloromethane | 0.359 | 0.330 | 0.324 | 0.329 | 0.310 | 0.346 | 0.333 | 5.2 |
| 1,2-Dibromoethane | 0.232 | 0.223 | 0.215 | 0.225 | 0.203 | 0.233 | 0.222 | 5 |
| Tetrachloroethene | 0.409 | 0.367 | 0.352 | 0.361 | 0.351 | 0.387 | 0.371 | 6.2 |
| Chlorobenzene | 1.237 | 1.115 | 1.054 | 1.080 | 1.048 | 1.146 | 1.113 | 6.4 |
| Ethyl Benzene | 2.101 | 1.899 | 1.865 | 1.943 | 1.914 | 2.093 | 1.969 | 5.2 |
| m/p-Xylenes | 0.772 | 0.723 | 0.709 | 0.733 | 0.711 | 0.773 | 0.737 | 3.9 |
| o-Xylene | 0.723 | 0.658 | 0.660 | 0.681 | 0.670 | 0.729 | 0.687 | 4.6 |
| Styrene | 1.154 | 1.118 | 1.105 | 1.156 | 1.128 | 1.208 | 1.145 | 3.2 |
| Bromoform | 0.231 | 0.222 | 0.217 | 0.216 | 0.205 | 0.229 | 0.220 | 4.4 |
| Isopropylbenzene | 4.122 | 3.695 | 3.673 | 3.809 | 3.871 | 4.263 | 3.906 | 6.1 |
| 1,1,2,2-Tetrachloroethane | 0.707 | 0.646 | 0.635 | 0.632 | 0.597 | 0.680 | 0.650 | 6 |
| 1,3-Dichlorobenzene | 1.937 | 1.686 | 1.660 | 1.683 | 1.652 | 1.824 | 1.740 | 6.6 |
| 1,4-Dichlorobenzene | 1.906 | 1.702 | 1.632 | 1.665 | 1.599 | 1.778 | 1.714 | 6.6 |
| 1,2-Dichlorobenzene | 1.668 | 1.524 | 1.440 | 1.460 | 1.405 | 1.567 | 1.510 | 6.4 |
| 1,2-Dibromo-3-Chloropropane | 0.099 | 0.099 | 0.089 | 0.097 | 0.089 | 0.109 | 0.097 | 7.6 |
| 1,2,4-Trichlorobenzene | 0.796 | 0.754 | 0.743 | 0.875 | 0.873 | 1.004 | 0.841 | 11.6 |
| 1,2,3-Trichlorobenzene | 0.641 | 0.640 | 0.626 | 0.733 | 0.726 | 0.832 | 0.700 | 11.4 |
| 1,2-Dichloroethane-d4 | 0.566 | 0.557 | 0.478 | 0.503 | 0.454 | 0.516 | 0.512 | 8.5 |
| Dibromofluoromethane | 0.351 | 0.326 | 0.301 | 0.313 | 0.297 | 0.333 | 0.320 | 6.4 |
| Toluene-d8 | 1.295 | 1.237 | 1.139 | 1.202 | 1.158 | 1.288 | 1.220 | 5.3 |
| 4-Bromofluorobenzene | 0.417 | 0.408 | 0.371 | 0.403 | 0.375 | 0.418 | 0.399 | 5.2 |

* 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 : 82Y020325S.M
Title : SW846 8260
Last Update : Mon Feb 03 13:08:38 2025
Response Via : Initial Calibration

Calibration Files
5 =VY021020.D 10 =VY021021.D 20 =VY021022.D 50 =VY021023.D 100 =VY021024.D 150 =VY021025.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.503 | 0.438 | 0.413 | 0.445 | 0.419 | 0.457 | 0.446 | 7.23 |
| 3) | P | Chloromethane | 0.524 | 0.445 | 0.408 | 0.421 | 0.404 | 0.437 | 0.440 | 10.10 |
| 4) | C | Vinyl Chloride | 0.535 | 0.441 | 0.404 | 0.424 | 0.408 | 0.443 | 0.443 | 10.93# |
| 5) | T | Bromomethane | 0.356 | 0.275 | 0.249 | 0.258 | 0.246 | 0.257 | 0.274 | 15.17 |
| 6) | T | Chloroethane | 0.316 | 0.270 | 0.240 | 0.255 | 0.239 | 0.261 | 0.263 | 10.71 |
| 7) | T | Trichlorofluor... | 0.924 | 0.814 | 0.755 | 0.789 | 0.743 | 0.813 | 0.806 | 8.03 |
| 8) | T | Diethyl Ether | 0.274 | 0.256 | 0.248 | 0.242 | 0.230 | 0.260 | 0.252 | 6.02 |
| 9) | T | 1,1,2-Trichlor... | 0.587 | 0.507 | 0.472 | 0.494 | 0.466 | 0.510 | 0.506 | 8.56 |
| 10) | T | Methyl Iodide | 0.534 | 0.532 | 0.527 | 0.587 | 0.576 | 0.618 | 0.562 | 6.59 |
| 11) | T | Tert butyl alc... | 0.042 | 0.039 | 0.035 | 0.032 | 0.028 | 0.032 | 0.035 | 14.80 |
| 12) | CM | 1,1-Dichloroet... | 0.529 | 0.471 | 0.441 | 0.469 | 0.452 | 0.498 | 0.477 | 6.76# |
| 13) | T | Acrolein | 0.055 | 0.057 | 0.056 | 0.052 | 0.047 | 0.053 | 0.053 | 6.61 |
| 14) | T | Allyl chloride | 0.869 | 0.778 | 0.753 | 0.800 | 0.774 | 0.846 | 0.803 | 5.60 |
| 15) | T | Acrylonitrile | 0.109 | 0.105 | 0.105 | 0.106 | 0.095 | 0.109 | 0.105 | 5.06 |
| 16) | T | Acetone | 0.087 | 0.083 | 0.078 | 0.077 | 0.070 | 0.083 | 0.080 | 7.52 |
| 17) | T | Carbon Disulfide | 1.673 | 1.456 | 1.389 | 1.475 | 1.421 | 1.556 | 1.495 | 6.96 |
| 18) | T | Methyl Acetate | 0.300 | 0.282 | 0.268 | 0.287 | 0.253 | 0.291 | 0.280 | 6.13 |
| 19) | T | Methyl tert-bu... | 1.271 | 1.185 | 1.168 | 1.216 | 1.124 | 1.265 | 1.205 | 4.75 |
| 20) | T | Methylene Chlo... | 0.570 | 0.506 | 0.473 | 0.485 | 0.452 | 0.494 | 0.497 | 8.17 |
| 21) | T | trans-1,2-Dich... | 0.578 | 0.518 | 0.502 | 0.522 | 0.490 | 0.538 | 0.525 | 5.83 |
| 22) | T | Diisopropyl ether | 1.741 | 1.643 | 1.638 | 1.665 | 1.573 | 1.677 | 1.656 | 3.33 |
| 23) | T | Vinyl Acetate | 0.937 | 0.913 | 0.903 | 0.948 | 0.869 | 0.970 | 0.923 | 3.86 |
| 24) | P | 1,1-Dichloroet... | 1.104 | 0.948 | 0.923 | 0.947 | 0.911 | 0.989 | 0.970 | 7.27 |
| 25) | T | 2-Butanone | 0.134 | 0.133 | 0.126 | 0.135 | 0.121 | 0.139 | 0.131 | 5.18 |
| 26) | T | 2,2-Dichloropr... | 1.031 | 0.899 | 0.842 | 0.870 | 0.818 | 0.926 | 0.898 | 8.44 |
| 27) | T | cis-1,2-Dichlo... | 0.662 | 0.584 | 0.577 | 0.599 | 0.575 | 0.626 | 0.604 | 5.66 |
| 28) | T | Bromochloromet... | 0.373 | 0.368 | 0.381 | 0.413 | 0.374 | 0.394 | 0.384 | 4.42 |
| 29) | T | Tetrahydrofuran | 0.088 | 0.092 | 0.088 | 0.092 | 0.081 | 0.093 | 0.089 | 5.11 |
| 30) | C | Chloroform | 1.107 | 1.016 | 0.947 | 0.982 | 0.921 | 1.006 | 0.997 | 6.49# |
| 31) | T | Cyclohexane | 1.093 | 0.885 | 0.807 | 0.827 | 0.779 | 0.852 | 0.874 | 12.96 |
| 32) | T | 1,1,1-Trichlor... | 1.067 | 0.901 | 0.867 | 0.912 | 0.863 | 0.949 | 0.927 | 8.18 |
| 33) | S | 1,2-Dichloroet... | 0.566 | 0.557 | 0.478 | 0.503 | 0.454 | 0.516 | 0.512 | 8.52 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.351 | 0.326 | 0.301 | 0.313 | 0.297 | 0.333 | 0.320 | 6.41 |
| 36) | T | 1,1-Dichloropr... | 0.534 | 0.464 | 0.447 | 0.463 | 0.448 | 0.491 | 0.475 | 7.02 |
| 37) | T | Ethyl Acetate | 0.218 | 0.208 | 0.208 | 0.211 | 0.188 | 0.216 | 0.208 | 5.10 |
| 38) | T | Carbon Tetrach... | 0.604 | 0.551 | 0.522 | 0.547 | 0.522 | 0.581 | 0.555 | 5.86 |
| 39) | T | Methylcyclohexane | 0.609 | 0.550 | 0.536 | 0.588 | 0.570 | 0.629 | 0.581 | 6.07 |
| 40) | TM | Benzene | 1.512 | 1.382 | 1.327 | 1.378 | 1.323 | 1.436 | 1.393 | 5.13 |
| 41) | T | Methacrylonitrile | 0.130 | 0.126 | 0.133 | 0.111 | 0.089 | 0.134 | 0.120 | 14.47 |
| 42) | TM | 1,2-Dichloroet... | 0.435 | 0.390 | 0.367 | 0.379 | 0.352 | 0.395 | 0.386 | 7.38 |
| 43) | T | Isopropyl Acetate | 0.404 | 0.417 | 0.400 | 0.422 | 0.389 | 0.451 | 0.414 | 5.25 |
| 44) | TM | Trichloroethene | 0.401 | 0.355 | 0.341 | 0.349 | 0.338 | 0.375 | 0.360 | 6.66 |
| 45) | C | 1,2-Dichloropr... | 0.357 | 0.329 | 0.319 | 0.327 | 0.311 | 0.341 | 0.331 | 4.98# |
| 46) | T | Dibromomethane | 0.201 | 0.184 | 0.179 | 0.181 | 0.166 | 0.187 | 0.183 | 6.17 |
| 47) | T | Bromodichlorom... | 0.528 | 0.500 | 0.469 | 0.482 | 0.459 | 0.506 | 0.491 | 5.18 |
| 48) | T | Methyl methacr... | 0.180 | 0.180 | 0.175 | 0.192 | 0.186 | 0.217 | 0.188 | 7.95 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 6.73 |
| 50) | S | Toluene-d8 | 1.295 | 1.237 | 1.139 | 1.202 | 1.158 | 1.288 | 1.220 | 5.34 |
| 51) | T | 4-Methyl-2-Pen... | 0.202 | 0.211 | 0.202 | 0.216 | 0.194 | 0.224 | 0.208 | 5.18 |
| 52) | CM | Toluene | 0.913 | 0.856 | 0.840 | 0.876 | 0.844 | 0.918 | 0.875 | 3.88# |
| 53) | T | t-1,3-Dichloro... | 0.441 | 0.426 | 0.419 | 0.449 | 0.427 | 0.483 | 0.441 | 5.31 |
| 54) | T | cis-1,3-Dichlo... | 0.528 | 0.516 | 0.502 | 0.525 | 0.501 | 0.560 | 0.522 | 4.19 |
| 55) | T | 1,1,2-Trichlor... | 0.261 | 0.235 | 0.231 | 0.235 | 0.217 | 0.242 | 0.237 | 6.06 |
| 56) | T | Ethyl methacry... | 0.287 | 0.296 | 0.300 | 0.338 | 0.319 | 0.363 | 0.317 | 9.15 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y020325S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.434 | 0.410 | 0.402 | 0.412 | 0.381 | 0.424 | 0.410 | 4.44 |
| 58) | T | 2-Chloroethyl ... | 0.143 | 0.146 | 0.146 | 0.157 | 0.146 | 0.167 | 0.151 | 6.19 |
| 59) | T | 2-Hexanone | 0.124 | 0.131 | 0.128 | 0.144 | 0.129 | 0.149 | 0.134 | 7.42 |
| 60) | T | Dibromochlorom... | 0.359 | 0.330 | 0.324 | 0.329 | 0.310 | 0.346 | 0.333 | 5.17 |
| 61) | T | 1,2-Dibromoethane | 0.232 | 0.223 | 0.215 | 0.225 | 0.203 | 0.233 | 0.222 | 5.04 |
| 62) | S | 4-Bromofluorob... | 0.417 | 0.408 | 0.371 | 0.403 | 0.375 | 0.418 | 0.399 | 5.23 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.409 | 0.367 | 0.352 | 0.361 | 0.351 | 0.387 | 0.371 | 6.17 |
| 65) | PM | Chlorobenzene | 1.237 | 1.115 | 1.054 | 1.080 | 1.048 | 1.146 | 1.113 | 6.40 |
| 66) | T | 1,1,1,2-Tetrac... | 0.434 | 0.401 | 0.376 | 0.382 | 0.374 | 0.407 | 0.396 | 5.86 |
| 67) | C | Ethyl Benzene | 2.101 | 1.899 | 1.865 | 1.943 | 1.914 | 2.093 | 1.969 | 5.20# |
| 68) | T | m/p-Xylenes | 0.772 | 0.723 | 0.709 | 0.733 | 0.711 | 0.773 | 0.737 | 3.93 |
| 69) | T | o-Xylene | 0.723 | 0.658 | 0.660 | 0.681 | 0.670 | 0.729 | 0.687 | 4.57 |
| 70) | T | Styrene | 1.154 | 1.118 | 1.105 | 1.156 | 1.128 | 1.208 | 1.145 | 3.23 |
| 71) | P | Bromoform | 0.231 | 0.222 | 0.217 | 0.216 | 0.205 | 0.229 | 0.220 | 4.43 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 4.122 | 3.695 | 3.673 | 3.809 | 3.871 | 4.263 | 3.906 | 6.09 |
| 74) | T | N-amyl acetate | 0.786 | 0.801 | 0.796 | 0.887 | 0.854 | 1.000 | 0.854 | 9.53 |
| 75) | P | 1,1,2,2-Tetrac... | 0.707 | 0.646 | 0.635 | 0.632 | 0.597 | 0.680 | 0.650 | 5.97 |
| 76) | T | 1,2,3-Trichlor... | 0.527 | 0.393 | 0.469 | 0.462 | 0.378 | 0.492 | 0.454 | 12.69 |
| 77) | T | Bromobenzene | 0.946 | 0.892 | 0.866 | 0.864 | 0.863 | 0.978 | 0.901 | 5.45 |
| 78) | T | n-propylbenzene | 4.862 | 4.419 | 4.410 | 4.581 | 4.590 | 5.054 | 4.653 | 5.50 |
| 79) | T | 2-Chlorotoluene | 2.872 | 2.577 | 2.537 | 2.585 | 2.571 | 2.847 | 2.665 | 5.70 |
| 80) | T | 1,3,5-Trimethy... | 3.321 | 3.032 | 3.042 | 3.109 | 3.100 | 3.395 | 3.167 | 4.84 |
| 81) | T | trans-1,4-Dich... | 0.216 | 0.226 | 0.211 | 0.223 | 0.208 | 0.250 | 0.222 | 6.87 |
| 82) | T | 4-Chlorotoluene | 2.902 | 2.692 | 2.605 | 2.617 | 2.592 | 2.882 | 2.715 | 5.21 |
| 83) | T | tert-Butylbenzene | 2.968 | 2.745 | 2.755 | 2.869 | 2.773 | 3.160 | 2.878 | 5.63 |
| 84) | T | 1,2,4-Trimethy... | 3.184 | 2.935 | 2.981 | 3.059 | 3.047 | 3.371 | 3.096 | 5.13 |
| 85) | T | sec-Butylbenzene | 4.405 | 4.003 | 3.956 | 4.038 | 4.046 | 4.413 | 4.143 | 5.03 |
| 86) | T | p-Isopropyltol... | 3.554 | 3.237 | 3.304 | 3.421 | 3.381 | 3.753 | 3.442 | 5.43 |
| 87) | T | 1,3-Dichlorobe... | 1.937 | 1.686 | 1.660 | 1.683 | 1.652 | 1.824 | 1.740 | 6.61 |
| 88) | T | 1,4-Dichlorobe... | 1.906 | 1.702 | 1.632 | 1.665 | 1.599 | 1.778 | 1.714 | 6.56 |
| 89) | T | n-Butylbenzene | 3.202 | 2.923 | 2.961 | 3.153 | 3.127 | 3.473 | 3.140 | 6.27 |
| 90) | T | Hexachloroethane | 0.757 | 0.693 | 0.680 | 0.696 | 0.699 | 0.784 | 0.718 | 5.86 |
| 91) | T | 1,2-Dichlorobe... | 1.668 | 1.524 | 1.440 | 1.460 | 1.405 | 1.567 | 1.510 | 6.42 |
| 92) | T | 1,2-Dibromo-3-... | 0.099 | 0.099 | 0.089 | 0.097 | 0.089 | 0.109 | 0.097 | 7.64 |
| 93) | T | 1,2,4-Trichlor... | 0.796 | 0.754 | 0.743 | 0.875 | 0.873 | 1.004 | 0.841 | 11.62 |
| 94) | T | Hexachlorobuta... | 0.600 | 0.518 | 0.523 | 0.554 | 0.542 | 0.605 | 0.557 | 6.73 |
| 95) | T | Naphthalene | 1.072 | 1.171 | 1.176 | 1.488 | 1.440 | 1.723 | 1.345 | 18.38 |
| 96) | T | 1,2,3-Trichlor... | 0.641 | 0.640 | 0.626 | 0.733 | 0.726 | 0.832 | 0.700 | 11.36 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021020.D
Acq On : 03 Feb 2025 10:35
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:37:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 185671 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 293189 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 242257 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 113107 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.079 | 65 | 10514 | 6.651 | ug/l | 0.01 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 13.300%# | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 10294 | 5.840 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 11.680%# | | |
| 50) Toluene-d8 | 10.115 | 98 | 37973 | 5.520 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 11.040%# | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 12237 | 5.301 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 10.600%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 9330 | 5.910 | ug/l | 94 |
| 3) Chloromethane | 2.080 | 50 | 9736 | 9.700 | ug/l | 98 |
| 4) Vinyl Chloride | 2.214 | 62 | 9942 | 9.607 | ug/l | 100 |
| 5) Bromomethane | 2.611 | 94 | 6604 | 9.426 | ug/l | 92 |
| 6) Chloroethane | 2.751 | 64 | 5863 | 9.698 | ug/l | 89 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 17163 | 6.872 | ug/l | 96 |
| 8) Diethyl Ether | 3.470 | 74 | 5090 | 6.827 | ug/l | 78 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 10891 | 6.476 | ug/l | 93 |
| 10) Methyl Iodide | 4.019 | 142 | 9923 | 5.156 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.878 | 59 | 3893 | 33.712 | ug/l # | 73 |
| 12) 1,1-Dichloroethene | 3.805 | 96 | 9831 | 6.255 | ug/l | 89 |
| 13) Acrolein | 3.665 | 56 | 5116 | 38.472 | ug/l | 94 |
| 14) Allyl chloride | 4.403 | 41 | 16131 | 7.456 | ug/l | 93 |
| 15) Acrylonitrile | 5.086 | 53 | 10135 | 33.047 | ug/l # | 73 |
| 16) Acetone | 3.891 | 43 | 8118 | 37.678 | ug/l | 99 |
| 17) Carbon Disulfide | 4.123 | 76 | 31063 | 6.417 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 5577 | 7.397 | ug/l | 92 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 23603 | 6.452 | ug/l | 98 |
| 20) Methylene Chloride | 4.635 | 84 | 10585 | 6.661 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.141 | 96 | 10724 | 6.364 | ug/l | 91 |
| 22) Diisopropyl ether | 6.031 | 45 | 32323 | 7.329 | ug/l | 94 |
| 23) Vinyl Acetate | 5.976 | 43 | 87000 | 35.621 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 20490 | 7.202 | ug/l | 96 |
| 25) 2-Butanone | 6.915 | 43 | 12466 | 34.105 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 19144 | 6.834 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.909 | 96 | 12299 | 6.350 | ug/l | 93 |
| 28) Bromochloromethane | 7.256 | 49 | 6919 | 6.527 | ug/l | 85 |
| 29) Tetrahydrofuran | 7.281 | 42 | 8193 | 33.310 | ug/l | 92 |
| 30) Chloroform | 7.439 | 83 | 20552 | 6.669 | ug/l | 96 |
| 31) Cyclohexane | 7.713 | 56 | 20287 | 7.295 | ug/l # | 85 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 19818 | 6.645 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 15667 | 6.231 | ug/l | 95 |
| 37) Ethyl Acetate | 6.994 | 43 | 6383 | 6.809 | ug/l # | 74 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 17709 | 5.691 | ug/l | 99 |
| 39) Methylcyclohexane | 9.116 | 83 | 17860 | 5.287 | ug/l | 93 |
| 40) Benzene | 8.091 | 78 | 44324 | 5.991 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021020.D
Acq On : 03 Feb 2025 10:35
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:37:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.244 | 41 | 3810m | 7.345 ug/l | | |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 12762 | 6.801 ug/l | | 98 |
| 43) Isopropyl Acetate | 8.207 | 43 | 11839 | 6.321 ug/l | # | 86 |
| 44) Trichloroethene | 8.878 | 130 | 11751 | 5.756 ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 10477 | 6.318 ug/l | | 99 |
| 46) Dibromomethane | 9.244 | 93 | 5885 | 6.098 ug/l | | 91 |
| 47) Bromodichloromethane | 9.433 | 83 | 15477 | 6.107 ug/l | | 94 |
| 48) Methyl methacrylate | 9.231 | 41 | 5280 | 5.922 ug/l | | 93 |
| 49) 1,4-Dioxane | 9.250 | 88 | 940 | 91.663 ug/l | # | 93 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 29573 | 30.730 ug/l | | 91 |
| 52) Toluene | 10.182 | 92 | 26760 | 5.572 ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 12933 | 5.639 ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 15488 | 5.650 ug/l | # | 90 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 7651 | 5.961 ug/l | | 92 |
| 56) Ethyl methacrylate | 10.451 | 69 | 8418 | 5.018 ug/l | # | 82 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 12714 | 5.845 ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 21035 | 29.542 ug/l | | 95 |
| 59) 2-Hexanone | 10.774 | 43 | 18159 | 29.030 ug/l | | 90 |
| 60) Dibromochloromethane | 10.920 | 129 | 10511 | 5.744 ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 6810 | 5.555 ug/l | | 96 |
| 64) Tetrachloroethene | 10.652 | 164 | 9915 | 5.426 ug/l | | 96 |
| 65) Chlorobenzene | 11.450 | 112 | 29973 | 5.872 ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 10524 | 5.810 ug/l | | 98 |
| 67) Ethyl Benzene | 11.530 | 91 | 50904 | 5.760 ug/l | | 97 |
| 68) m/p-Xylenes | 11.639 | 106 | 37399 | 11.015 ug/l | | 98 |
| 69) o-Xylene | 11.963 | 106 | 17519 | 5.550 ug/l | | 99 |
| 70) Styrene | 11.981 | 104 | 27946 | 5.333 ug/l | | 99 |
| 71) Bromoform | 12.145 | 173 | 5607 | 5.252 ug/l | # | 97 |
| 73) Isopropylbenzene | 12.261 | 105 | 46625 | 5.869 ug/l | | 100 |
| 74) N-amyl acetate | 12.085 | 43 | 8887 | 6.144 ug/l | | 93 |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83 | 8001 | 6.240 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 5960m | 6.656 ug/l | | |
| 77) Bromobenzene | 12.542 | 156 | 10698 | 5.680 ug/l | | 90 |
| 78) n-propylbenzene | 12.603 | 91 | 54990 | 5.907 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 32479 | 6.123 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.749 | 105 | 37564 | 5.772 ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 2446 | 5.671 ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 32824 | 6.046 ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 33572 | 5.562 ug/l | | 95 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 36016 | 5.665 ug/l | | 100 |
| 85) sec-Butylbenzene | 13.188 | 105 | 49828 | 5.831 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.304 | 119 | 40197 | 5.597 ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 21910 | 5.966 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 21553 | 5.910 ug/l | | 95 |
| 89) n-Butylbenzene | 13.627 | 91 | 36214 | 5.630 ug/l | | 96 |
| 90) Hexachloroethane | 13.895 | 117 | 8559 | 5.891 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 18869 | 5.892 ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 1125 | 5.699 ug/l | | 82 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 9000 | 4.590 ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 6792 | 5.001 ug/l | | 99 |
| 95) Naphthalene | 15.157 | 128 | 12124 | 3.847 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 7255 | 4.375 ug/l | | 95 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021020.D
Acq On : 03 Feb 2025 10:35
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:37:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

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

ICAL Form

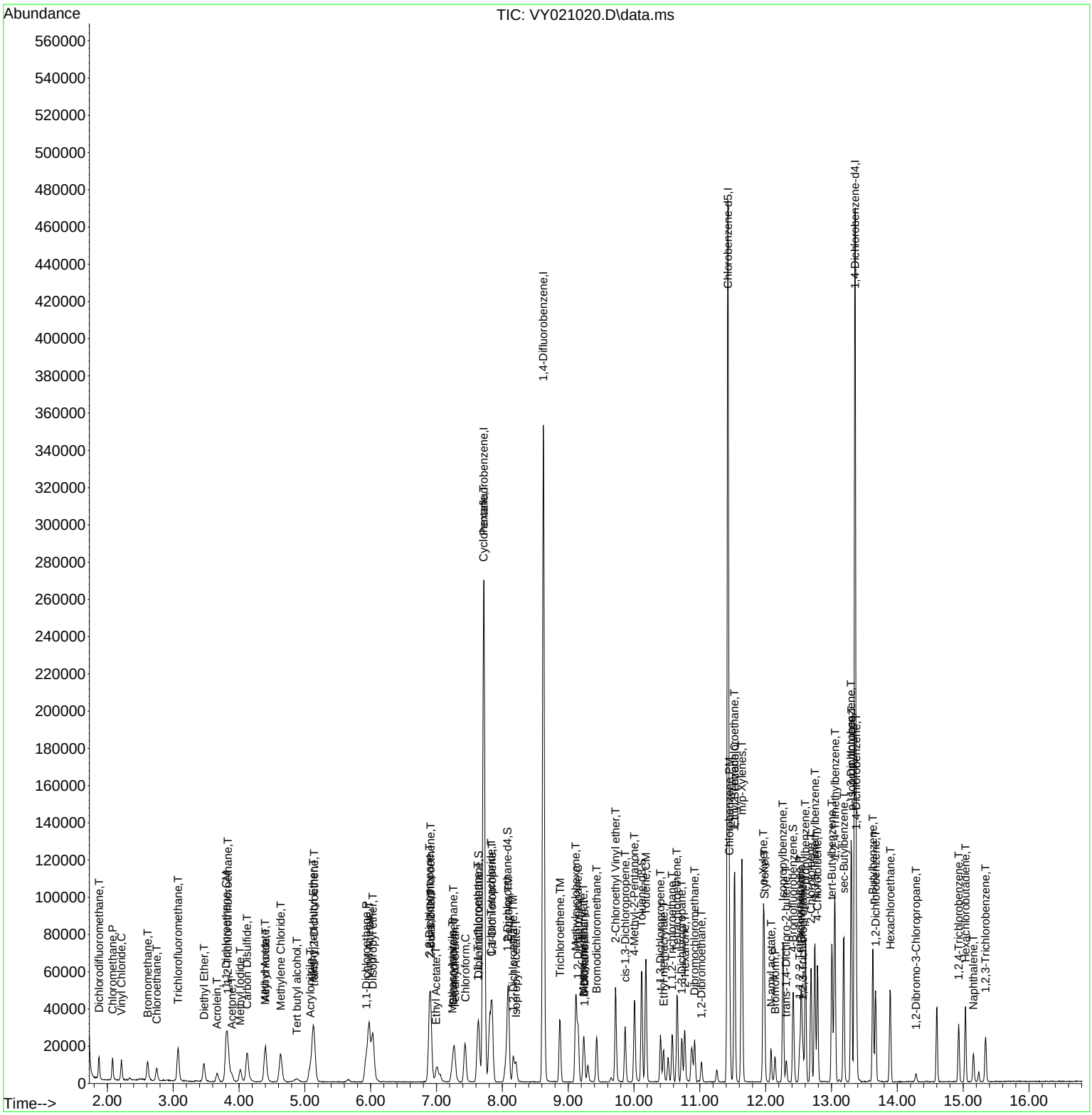
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021020.D
Acq On : 03 Feb 2025 10:35
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 12:37:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021021.D
Acq On : 03 Feb 2025 10:57
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 182294 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 285332 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 239030 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 115682 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 20294 | 13.075 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 26.160%# | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 18627 | 10.859 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 21.720%# | | |
| 50) Toluene-d8 | 10.109 | 98 | 70569 | 10.540 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 21.080%# | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 23279 | 10.362 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 20.720%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 15959 | 10.296 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 16219 | 16.458 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 16094 | 15.839 | ug/l | 93 |
| 5) Bromomethane | 2.604 | 94 | 10042 | 14.599 | ug/l | 99 |
| 6) Chloroethane | 2.745 | 64 | 9830 | 16.561 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 29663 | 12.097 | ug/l | 90 |
| 8) Diethyl Ether | 3.458 | 74 | 9330 | 12.745 | ug/l | 89 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 18483 | 11.194 | ug/l | 96 |
| 10) Methyl Iodide | 4.019 | 142 | 19381 | 10.258 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 7158m | 63.135 | ug/l | |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 17176 | 11.131 | ug/l | 90 |
| 13) Acrolein | 3.665 | 56 | 10409 | 79.726 | ug/l | 96 |
| 14) Allyl chloride | 4.391 | 41 | 28376 | 13.358 | ug/l | 93 |
| 15) Acrylonitrile | 5.074 | 53 | 19104 | 63.446 | ug/l | 97 |
| 16) Acetone | 3.879 | 43 | 15112 | 71.438 | ug/l # | 86 |
| 17) Carbon Disulfide | 4.116 | 76 | 53088 | 11.171 | ug/l | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 10297 | 13.911 | ug/l | 94 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 43216 | 12.033 | ug/l | 96 |
| 20) Methylene Chloride | 4.622 | 84 | 18455 | 11.829 | ug/l | 89 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 18903 | 11.426 | ug/l | 100 |
| 22) Diisopropyl ether | 6.031 | 45 | 59888 | 13.831 | ug/l # | 89 |
| 23) Vinyl Acetate | 5.970 | 43 | 166437 | 69.409 | ug/l | 94 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 34569 | 12.375 | ug/l | 99 |
| 25) 2-Butanone | 6.902 | 43 | 24268 | 67.624 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 32771 | 11.915 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 21309 | 11.206 | ug/l | 91 |
| 28) Bromochloromethane | 7.256 | 49 | 13417 | 12.892 | ug/l | 86 |
| 29) Tetrahydrofuran | 7.274 | 42 | 16758 | 69.395 | ug/l | 92 |
| 30) Chloroform | 7.427 | 83 | 37054 | 12.247 | ug/l | 100 |
| 31) Cyclohexane | 7.707 | 56 | 32272 | 11.819 | ug/l # | 88 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 32862 | 11.223 | ug/l | 95 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 26479 | 10.820 | ug/l | 96 |
| 37) Ethyl Acetate | 6.994 | 43 | 11876 | 13.017 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 31462 | 10.389 | ug/l | 96 |
| 39) Methylcyclohexane | 9.115 | 83 | 31392 | 9.549 | ug/l | 90 |
| 40) Benzene | 8.085 | 78 | 78846 | 10.950 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021021.D
Acq On : 03 Feb 2025 10:57
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.244 | 41 | 7195m | 14.253 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 22281 | 12.201 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 23795 | 13.055 | ug/l | # | 84 |
| 44) Trichloroethene | 8.872 | 130 | 20261 | 10.197 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 18765 | 11.627 | ug/l | | 96 |
| 46) Dibromomethane | 9.237 | 93 | 10511 | 11.191 | ug/l | | 94 |
| 47) Bromodichloromethane | 9.432 | 83 | 28538 | 11.570 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 10297 | 11.866 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.231 | 88 | 1885 | 188.876 | ug/l | # | 89 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 60088 | 64.159 | ug/l | | 94 |
| 52) Toluene | 10.176 | 92 | 48876 | 10.457 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 24301 | 10.888 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 29426 | 11.031 | ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 13425 | 10.748 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.445 | 69 | 16883 | 10.341 | ug/l | # | 86 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 23377 | 11.042 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 41611 | 60.048 | ug/l | | 95 |
| 59) 2-Hexanone | 10.768 | 43 | 37306 | 61.283 | ug/l | | 90 |
| 60) Dibromochloromethane | 10.914 | 129 | 18851 | 10.585 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 12746 | 10.684 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 17544 | 9.730 | ug/l | | 98 |
| 65) Chlorobenzene | 11.450 | 112 | 53298 | 10.583 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 19150 | 10.714 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 90783 | 10.411 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 69094 | 20.624 | ug/l | | 98 |
| 69) o-Xylene | 11.963 | 106 | 31473 | 10.106 | ug/l | | 96 |
| 70) Styrene | 11.975 | 104 | 53436 | 10.334 | ug/l | | 98 |
| 71) Bromoform | 12.139 | 173 | 10627 | 10.088 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.261 | 105 | 85491 | 10.522 | ug/l | | 98 |
| 74) N-amyl acetate | 12.078 | 43 | 18529 | 12.524 | ug/l | | 93 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 14942 | 11.393 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 9090m | 9.926 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 20634 | 10.712 | ug/l | | 94 |
| 78) n-propylbenzene | 12.603 | 91 | 102250 | 10.738 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 59630 | 10.991 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 70161 | 10.541 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 5224 | 11.842 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 62279 | 11.217 | ug/l | | 96 |
| 83) tert-Butylbenzene | 13.005 | 119 | 63506 | 10.287 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 67906 | 10.444 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 92610 | 10.596 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 74892 | 10.196 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 39016 | 10.388 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 39379 | 10.559 | ug/l | | 95 |
| 89) n-Butylbenzene | 13.627 | 91 | 67632 | 10.280 | ug/l | | 97 |
| 90) Hexachloroethane | 13.889 | 117 | 16030 | 10.788 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 35252 | 10.763 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 2296 | 11.372 | ug/l | | 87 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 17451 | 8.702 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 11988 | 8.631 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 27103 | 8.409 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 14804 | 8.729 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021021.D
Acq On : 03 Feb 2025 10:57
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

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

ICAL Form

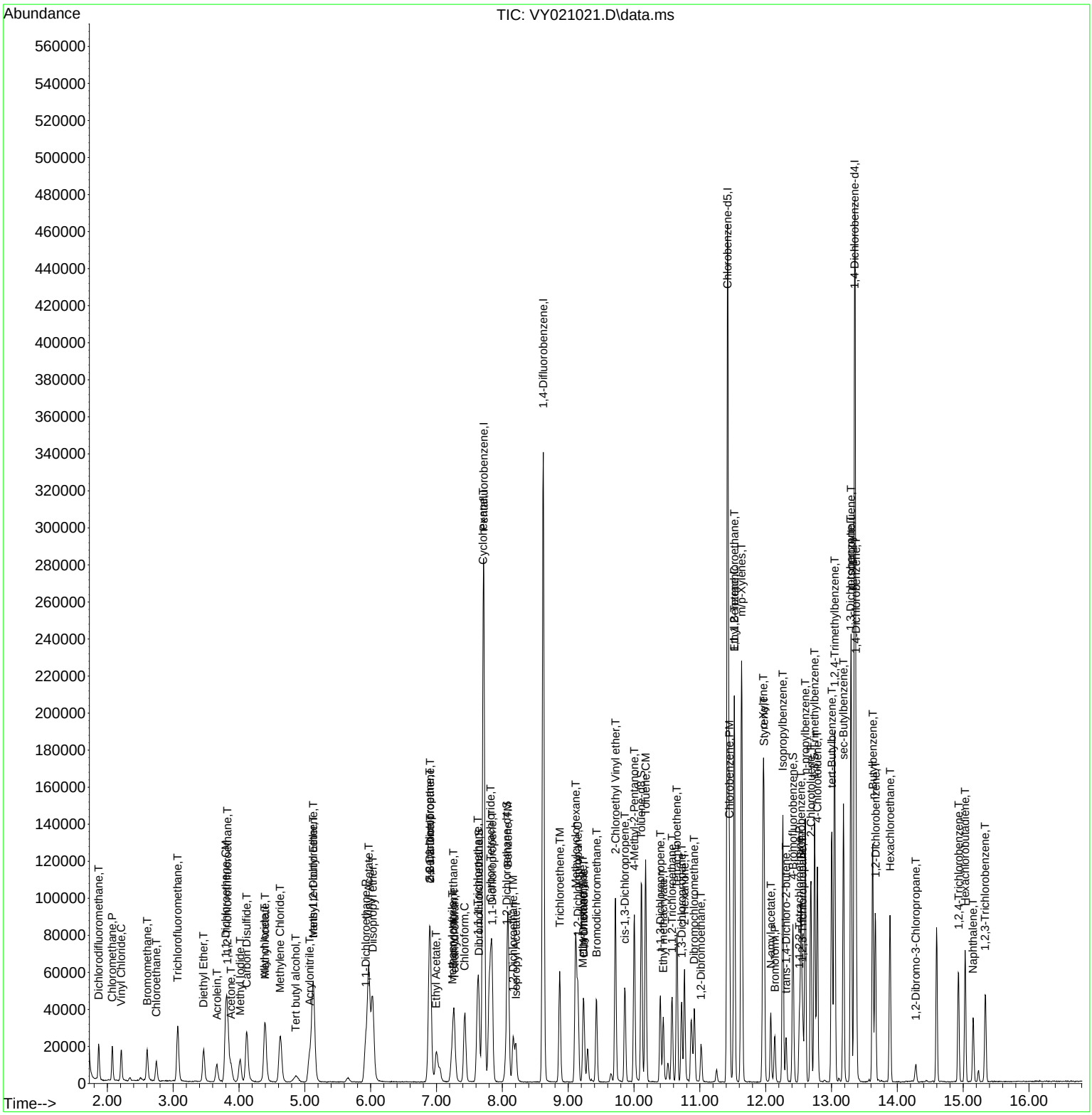
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021021.D
Acq On : 03 Feb 2025 10:57
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 03 12:38:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021022.D
Acq On : 03 Feb 2025 11:20
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 183569 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 284501 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 244590 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 116948 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 35087 | 22.450 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 44.900%# | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 34279 | 20.042 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 40.080%# | | |
| 50) Toluene-d8 | 10.109 | 98 | 129662 | 19.423 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 38.840%# | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 42182 | 18.831 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 37.660% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 30336 | 19.435 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 29923 | 30.154 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 29658 | 28.986 | ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 18302 | 26.423 | ug/l | 90 |
| 6) Chloroethane | 2.739 | 64 | 17634 | 29.503 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 55451 | 22.457 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 18232 | 24.733 | ug/l | 90 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 34675 | 20.855 | ug/l | 95 |
| 10) Methyl Iodide | 4.013 | 142 | 38697 | 20.338 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.878 | 59 | 12889 | 112.894 | ug/l # | 90 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 32389 | 20.845 | ug/l | 90 |
| 13) Acrolein | 3.659 | 56 | 20427 | 155.371 | ug/l | 100 |
| 14) Allyl chloride | 4.391 | 41 | 55315 | 25.859 | ug/l | 92 |
| 15) Acrylonitrile | 5.067 | 53 | 38612 | 127.343 | ug/l | 97 |
| 16) Acetone | 3.873 | 43 | 28518 | 133.874 | ug/l | 95 |
| 17) Carbon Disulfide | 4.116 | 76 | 101973 | 21.308 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 19673 | 26.393 | ug/l | 92 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 85748 | 23.710 | ug/l | 98 |
| 20) Methylene Chloride | 4.629 | 84 | 34701 | 22.087 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 36879 | 22.137 | ug/l | 94 |
| 22) Diisopropyl ether | 6.025 | 45 | 120281 | 27.585 | ug/l | 94 |
| 23) Vinyl Acetate | 5.970 | 43 | 331355 | 137.224 | ug/l | 95 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 67799 | 24.102 | ug/l | 98 |
| 25) 2-Butanone | 6.902 | 43 | 46083 | 127.520 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 61862 | 22.336 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 42356 | 22.120 | ug/l | 93 |
| 28) Bromochloromethane | 7.250 | 49 | 27966 | 26.684 | ug/l | 83 |
| 29) Tetrahydrofuran | 7.268 | 42 | 32271 | 132.707 | ug/l | 90 |
| 30) Chloroform | 7.427 | 83 | 69562 | 22.832 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 59268 | 21.556 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 63645 | 21.585 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 50918 | 20.868 | ug/l | 96 |
| 37) Ethyl Acetate | 6.988 | 43 | 23724 | 26.080 | ug/l # | 96 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 59433 | 19.683 | ug/l | 96 |
| 39) Methylcyclohexane | 9.116 | 83 | 61029 | 18.619 | ug/l | 92 |
| 40) Benzene | 8.085 | 78 | 150967 | 21.027 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021022.D
Acq On : 03 Feb 2025 11:20
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.250 | 41 | 15142m | 30.084 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 41726 | 22.916 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.201 | 43 | 45505 | 25.040 | ug/l | | 97 |
| 44) Trichloroethene | 8.872 | 130 | 38841 | 19.606 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 36268 | 22.538 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 20417 | 21.802 | ug/l | | 93 |
| 47) Bromodichloromethane | 9.426 | 83 | 53424 | 21.723 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.225 | 41 | 19957 | 23.066 | ug/l | | 91 |
| 49) 1,4-Dioxane | 9.237 | 88 | 3939 | 395.839 | ug/l | # | 90 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 114844 | 122.983 | ug/l | | 94 |
| 52) Toluene | 10.176 | 92 | 95614 | 20.517 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 47690 | 21.429 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 57105 | 21.469 | ug/l | # | 89 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 26314 | 21.129 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.445 | 69 | 34126 | 20.963 | ug/l | # | 86 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 45784 | 21.690 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 83057 | 120.208 | ug/l | | 95 |
| 59) 2-Hexanone | 10.768 | 43 | 72555 | 119.535 | ug/l | | 92 |
| 60) Dibromochloromethane | 10.914 | 129 | 36853 | 20.754 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 24505 | 20.600 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.652 | 164 | 34418 | 18.655 | ug/l | | 97 |
| 65) Chlorobenzene | 11.444 | 112 | 103141 | 20.015 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 36817 | 20.130 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 182430 | 20.446 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 138826 | 40.497 | ug/l | | 97 |
| 69) o-Xylene | 11.963 | 106 | 64616 | 20.276 | ug/l | | 98 |
| 70) Styrene | 11.975 | 104 | 108143 | 20.439 | ug/l | | 99 |
| 71) Bromoform | 12.139 | 173 | 21254 | 19.718 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.261 | 105 | 171836 | 20.921 | ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 37235 | 24.896 | ug/l | | 93 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 29712 | 22.410 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 21952m | 23.712 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 40491 | 20.793 | ug/l | | 95 |
| 78) n-propylbenzene | 12.603 | 91 | 206279 | 21.429 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 118673 | 21.638 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 142319 | 21.150 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 9872 | 22.135 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 121872 | 21.712 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 128881 | 20.651 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 139446 | 21.214 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 185044 | 20.943 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 154555 | 20.815 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 77631 | 20.446 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 76342 | 20.248 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.627 | 91 | 138532 | 20.829 | ug/l | | 98 |
| 90) Hexachloroethane | 13.889 | 117 | 31796 | 21.166 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 67363 | 20.344 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 4160 | 20.380 | ug/l | | 88 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 34770 | 17.150 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 24481 | 17.435 | ug/l | | 97 |
| 95) Naphthalene | 15.151 | 128 | 55021 | 16.886 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 29301 | 17.090 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021022.D
Acq On : 03 Feb 2025 11:20
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

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

ICAL Form

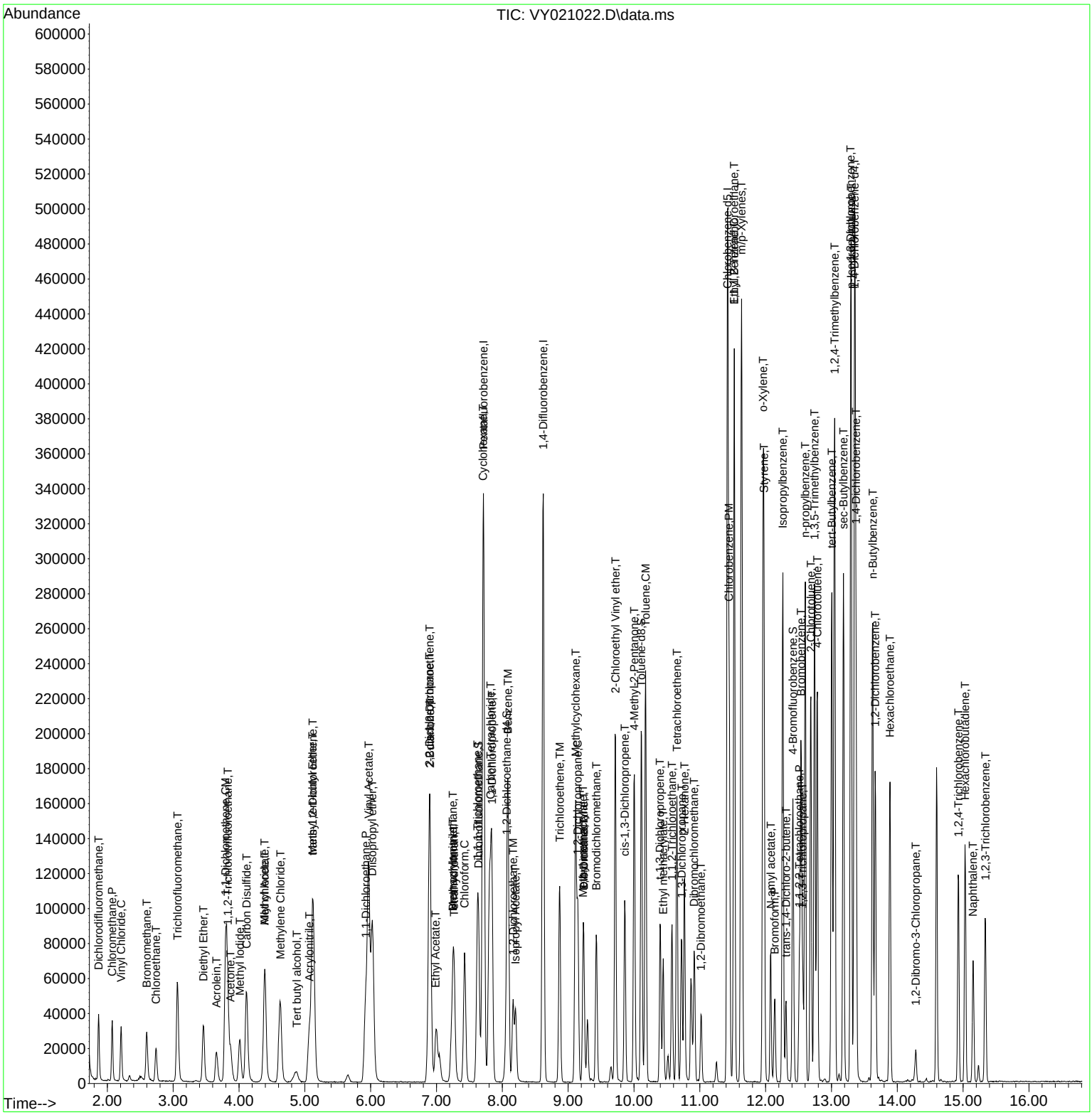
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021022.D
Acq On : 03 Feb 2025 11:20
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 03 12:38:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021023.D
Acq On : 03 Feb 2025 11:43
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 03 12:39:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 185055 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 285755 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 250150 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 121069 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 93084 | 59.079 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 118.160% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 89515 | 52.107 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.220% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 343592 | 51.243 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.480% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 115197 | 51.200 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 102.400% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 82341 | 52.329 | ug/l | 100 |
| 3) Chloromethane | 2.074 | 50 | 77828 | 77.798 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 78456 | 76.063 | ug/l | 100 |
| 5) Bromomethane | 2.605 | 94 | 47661 | 68.257 | ug/l | 99 |
| 6) Chloroethane | 2.739 | 64 | 47159 | 78.268 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 146090 | 58.690 | ug/l | 98 |
| 8) Diethyl Ether | 3.464 | 74 | 44796 | 60.281 | ug/l | 86 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 91456 | 54.564 | ug/l | 95 |
| 10) Methyl Iodide | 4.013 | 142 | 108576 | 56.607 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.872 | 59 | 29518 | 256.470 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.800 | 96 | 86860 | 55.452 | ug/l | 92 |
| 13) Acrolein | 3.659 | 56 | 48444 | 365.513 | ug/l | 98 |
| 14) Allyl chloride | 4.391 | 41 | 148096 | 68.676 | ug/l | 93 |
| 15) Acrylonitrile | 5.061 | 53 | 98437 | 322.040 | ug/l | 99 |
| 16) Acetone | 3.879 | 43 | 71701 | 333.889 | ug/l | 93 |
| 17) Carbon Disulfide | 4.117 | 76 | 272934 | 56.574 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 53193 | 70.789 | ug/l | 92 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 225045 | 61.726 | ug/l | 99 |
| 20) Methylene Chloride | 4.623 | 84 | 89716 | 56.645 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 96653 | 57.552 | ug/l | 92 |
| 22) Diisopropyl ether | 6.025 | 45 | 308181 | 70.111 | ug/l | 96 |
| 23) Vinyl Acetate | 5.970 | 43 | 876749 | 360.173 | ug/l | 96 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 175291 | 61.815 | ug/l | 100 |
| 25) 2-Butanone | 6.903 | 43 | 124949 | 342.981 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 160962 | 57.651 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.897 | 96 | 110873 | 57.437 | ug/l | 94 |
| 28) Bromochloromethane | 7.250 | 49 | 76460 | 72.370 | ug/l | 84 |
| 29) Tetrahydrofuran | 7.262 | 42 | 84863 | 346.176 | ug/l | 91 |
| 30) Chloroform | 7.427 | 83 | 181725 | 59.167 | ug/l | 96 |
| 31) Cyclohexane | 7.707 | 56 | 153013 | 55.203 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 168751 | 56.771 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 132425 | 54.034 | ug/l | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 60168 | 65.852 | ug/l | 95 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 156282 | 51.530 | ug/l | 99 |
| 39) Methylcyclohexane | 9.116 | 83 | 168118 | 51.064 | ug/l | 95 |
| 40) Benzene | 8.085 | 78 | 393690 | 54.594 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021023.D
Acq On : 03 Feb 2025 11:43
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 03 12:39:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 31701 | 62.707 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 108251 | 59.191 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 120630 | 66.087 | ug/l | | 96 |
| 44) Trichloroethene | 8.872 | 130 | 99733 | 50.121 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 93348 | 57.754 | ug/l | | 99 |
| 46) Dibromomethane | 9.238 | 93 | 51734 | 55.001 | ug/l | | 95 |
| 47) Bromodichloromethane | 9.427 | 83 | 137852 | 55.807 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.225 | 41 | 54848 | 63.113 | ug/l | | 91 |
| 49) 1,4-Dioxane | 9.231 | 88 | 10030 | 1003.514 | ug/l | # | 91 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 308616 | 329.038 | ug/l | | 95 |
| 52) Toluene | 10.176 | 92 | 250280 | 53.469 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 128314 | 57.403 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 149965 | 56.133 | ug/l | # | 91 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 67249 | 53.761 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.445 | 69 | 96579 | 59.067 | ug/l | # | 88 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 117634 | 55.483 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 224134 | 322.966 | ug/l | | 95 |
| 59) 2-Hexanone | 10.768 | 43 | 205217 | 336.612 | ug/l | | 92 |
| 60) Dibromochloromethane | 10.914 | 129 | 93957 | 52.680 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 64333 | 53.845 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 90228 | 47.817 | ug/l | | 98 |
| 65) Chlorobenzene | 11.445 | 112 | 270176 | 51.263 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 95653 | 51.137 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.524 | 91 | 486059 | 53.265 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.633 | 106 | 366509 | 104.538 | ug/l | | 98 |
| 69) o-Xylene | 11.963 | 106 | 170229 | 52.229 | ug/l | | 96 |
| 70) Styrene | 11.975 | 104 | 289102 | 53.426 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 54130 | 49.101 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 461198 | 54.240 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 107371 | 69.346 | ug/l | | 92 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 76500 | 55.736 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 55904m | 58.330 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 104605 | 51.889 | ug/l | | 93 |
| 78) n-propylbenzene | 12.603 | 91 | 554600 | 55.653 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 312917 | 55.113 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 376397 | 54.032 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 26957 | 58.386 | ug/l | | 91 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 316855 | 54.527 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 347315 | 53.757 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 370408 | 54.433 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 488820 | 53.440 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 414156 | 53.878 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 203767 | 51.839 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 201529 | 51.631 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.621 | 91 | 381707 | 55.439 | ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 84237 | 54.167 | ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 176718 | 51.554 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 11716 | 55.445 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 105932 | 50.473 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 67092 | 46.155 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 180166 | 53.412 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 88730 | 49.991 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021023.D
Acq On : 03 Feb 2025 11:43
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:39:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

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

ICAL Form

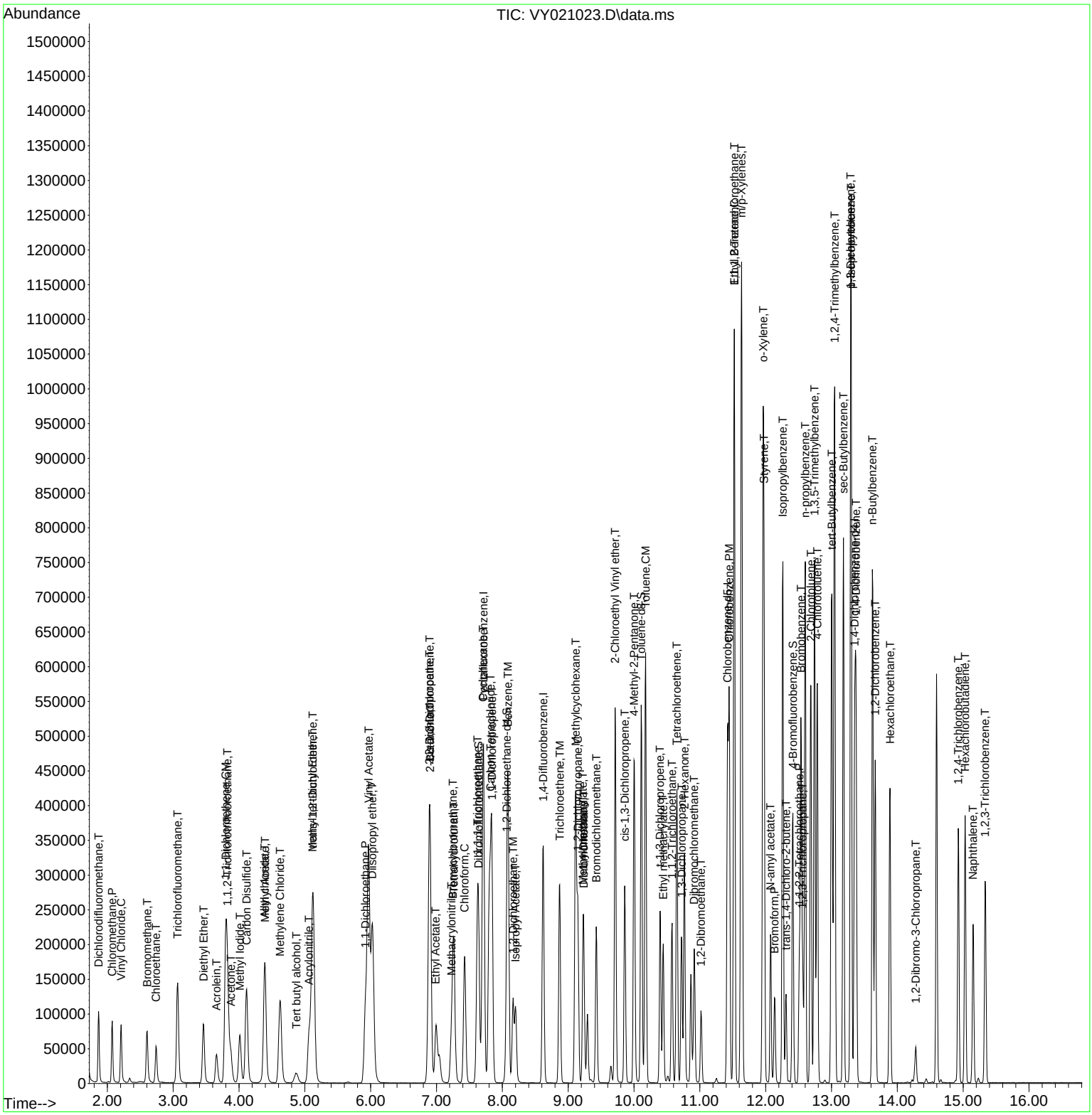
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021023.D
Acq On : 03 Feb 2025 11:43
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 03 12:39:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021024.D
Acq On : 03 Feb 2025 12:21
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:39:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 190137 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 289157 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 248171 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 115163 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 172797 | 106.741 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 213.480%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 171851 | 98.858 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 197.720%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 669691 | 98.702 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 197.400%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 216644 | 95.157 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 190.320%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 159301 | 98.533 | ug/l | 100 |
| 3) Chloromethane | 2.074 | 50 | 153706 | 149.541 | ug/l | 98 |
| 4) Vinyl Chloride | 2.214 | 62 | 155011 | 146.266 | ug/l | 99 |
| 5) Bromomethane | 2.604 | 94 | 93622 | 130.495 | ug/l | 96 |
| 6) Chloroethane | 2.745 | 64 | 91012 | 147.011 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 282462 | 110.443 | ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 87561 | 114.680 | ug/l | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 177279 | 102.939 | ug/l | 95 |
| 10) Methyl Iodide | 4.019 | 142 | 218905 | 111.078 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.872 | 59 | 53461 | 452.085 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 171787 | 106.739 | ug/l | 88 |
| 13) Acrolein | 3.659 | 56 | 89546 | 657.572 | ug/l | 99 |
| 14) Allyl chloride | 4.397 | 41 | 294317 | 132.835 | ug/l | 92 |
| 15) Acrylonitrile | 5.067 | 53 | 179975 | 573.057 | ug/l | 99 |
| 16) Acetone | 3.879 | 43 | 133780 | 606.320 | ug/l | 90 |
| 17) Carbon Disulfide | 4.116 | 76 | 540251 | 108.991 | ug/l | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 96229 | 124.639 | ug/l | 93 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 427571 | 114.141 | ug/l | 99 |
| 20) Methylene Chloride | 4.628 | 84 | 171778 | 105.558 | ug/l | 89 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 186520 | 108.095 | ug/l | 93 |
| 22) Diisopropyl ether | 6.031 | 45 | 598063 | 132.422 | ug/l | 97 |
| 23) Vinyl Acetate | 5.970 | 43 | 1653156 | 660.973 | ug/l | 95 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 346367 | 118.878 | ug/l | 98 |
| 25) 2-Butanone | 6.902 | 43 | 229517 | 613.177 | ug/l | 92 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 311254 | 108.502 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 218816 | 110.326 | ug/l | 94 |
| 28) Bromochloromethane | 7.256 | 49 | 142156 | 130.955 | ug/l | 83 |
| 29) Tetrahydrofuran | 7.274 | 42 | 153104 | 607.855 | ug/l | 92 |
| 30) Chloroform | 7.433 | 83 | 350416 | 111.040 | ug/l | 99 |
| 31) Cyclohexane | 7.713 | 56 | 296243 | 104.021 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 328296 | 107.493 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 258833 | 104.370 | ug/l | 97 |
| 37) Ethyl Acetate | 6.994 | 43 | 108807 | 117.685 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 302001 | 98.406 | ug/l | 98 |
| 39) Methylcyclohexane | 9.115 | 83 | 329865 | 99.014 | ug/l | 94 |
| 40) Benzene | 8.091 | 78 | 765340 | 104.883 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021024.D
Acq On : 03 Feb 2025 12:21
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:39:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 51586 | 100.841 | ug/l | | 90 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 203840 | 110.147 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.207 | 43 | 224883 | 121.752 | ug/l | # | 86 |
| 44) Trichloroethene | 8.872 | 130 | 195403 | 97.046 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 179965 | 110.034 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 95968 | 100.827 | ug/l | | 95 |
| 47) Bromodichloromethane | 9.432 | 83 | 265518 | 106.226 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.225 | 41 | 107661 | 122.427 | ug/l | | 90 |
| 49) 1,4-Dioxane | 9.237 | 88 | 18378 | 1817.108 | ug/l | # | 95 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 562082 | 592.226 | ug/l | | 94 |
| 52) Toluene | 10.176 | 92 | 488296 | 103.090 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 246769 | 109.097 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 289643 | 107.141 | ug/l | # | 91 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 125626 | 99.248 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.445 | 69 | 184212 | 111.337 | ug/l | | 88 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 220204 | 102.639 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 421206 | 599.795 | ug/l | | 95 |
| 59) 2-Hexanone | 10.768 | 43 | 373249 | 605.028 | ug/l | | 92 |
| 60) Dibromochloromethane | 10.920 | 129 | 179036 | 99.202 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 117576 | 97.250 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 174223 | 93.066 | ug/l | | 97 |
| 65) Chlorobenzene | 11.450 | 112 | 519942 | 99.441 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 185418 | 99.917 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 950017 | 104.939 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.639 | 106 | 705393 | 202.801 | ug/l | | 97 |
| 69) o-Xylene | 11.963 | 106 | 332346 | 102.783 | ug/l | | 97 |
| 70) Styrene | 11.975 | 104 | 559633 | 104.245 | ug/l | | 98 |
| 71) Bromoform | 12.139 | 173 | 101615 | 92.910 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 891697 | 110.247 | ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 196809 | 133.629 | ug/l | | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83 | 137599 | 105.393 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 87097m | 95.537 | ug/l | | |
| 77) Bromobenzene | 12.542 | 156 | 198715 | 103.627 | ug/l | | 93 |
| 78) n-propylbenzene | 12.603 | 91 | 1057216 | 111.529 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 592096 | 109.632 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 713935 | 107.741 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 47846 | 108.944 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 597047 | 108.014 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 638740 | 103.933 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 701716 | 108.409 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 931799 | 107.093 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.304 | 119 | 778814 | 106.512 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 380481 | 101.760 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 368361 | 99.212 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.627 | 91 | 720257 | 109.974 | ug/l | | 98 |
| 90) Hexachloroethane | 13.889 | 117 | 160918 | 108.782 | ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 323508 | 99.218 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 20553 | 102.253 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 201024 | 100.693 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 124879 | 90.315 | ug/l | | 100 |
| 95) Naphthalene | 15.157 | 128 | 331641 | 103.361 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 167187 | 99.024 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021024.D
Acq On : 03 Feb 2025 12:21
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:39:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

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

ICAL Form

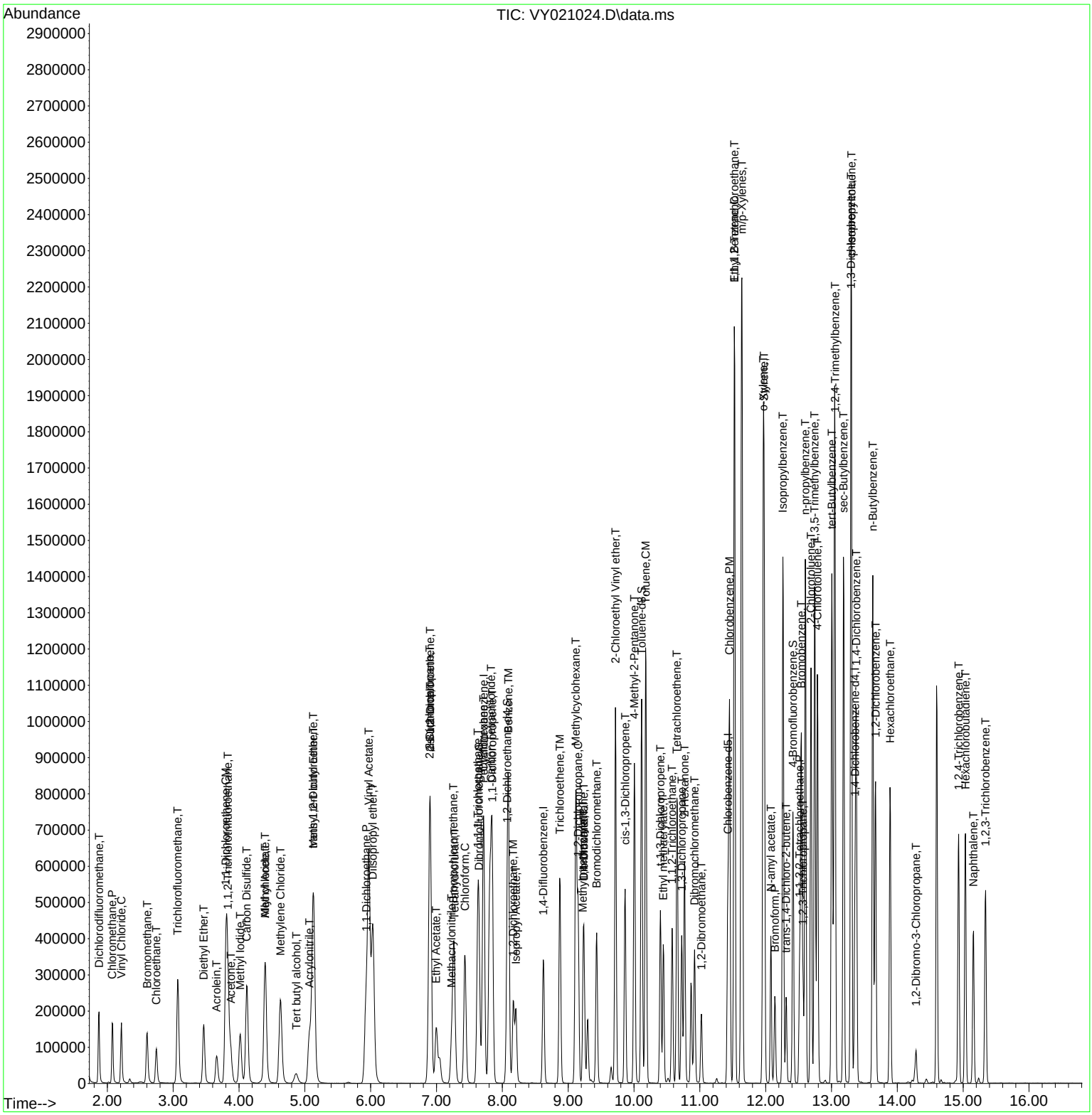
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021024.D
Acq On : 03 Feb 2025 12:21
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 12:39:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021025.D
Acq On : 03 Feb 2025 12:44
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 13:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:05:07 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 189855 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 287697 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 248527 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 112575 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 293662 | 145.336 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 290.680%# | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 287798 | 155.917 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 311.840%# | | | |
| 50) Toluene-d8 | 10.109 | 98 | 1111573 | 156.140 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 312.280%# | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 360358 | 162.912 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 325.820%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 260067 | 160.872 | ug/l | 97 |
| 3) Chloromethane | 2.074 | 50 | 248885 | 87.825 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 252501 | 75.880 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 146541 | 62.028 | ug/l | 99 |
| 6) Chloroethane | 2.739 | 64 | 148751 | 70.352 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 462994 | 129.223 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 147927 | 142.521 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 290713 | 133.999 | ug/l | 95 |
| 10) Methyl Iodide | 4.013 | 142 | 352076 | 163.787 | ug/l | 94 |
| 11) Tert butyl alcohol | 4.872 | 59 | 91037 | 651.581 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 283433 | 141.825 | ug/l | 94 |
| 13) Acrolein | 3.659 | 56 | 152214 | 707.118 | ug/l | 98 |
| 14) Allyl chloride | 4.391 | 41 | 481954 | 159.438 | ug/l | 96 |
| 15) Acrylonitrile | 5.061 | 53 | 309767 | 696.889 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 237711 | 483.636 | ug/l | 96 |
| 17) Carbon Disulfide | 4.116 | 76 | 886308 | 139.070 | ug/l | 100 |
| 18) Methyl Acetate | 4.391 | 43 | 166019 | 134.682 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 720513 | 159.427 | ug/l | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 281630 | 109.728 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 306161 | 134.636 | ug/l | 94 |
| 22) Diisopropyl ether | 6.025 | 45 | 955213 | 148.878 | ug/l | 97 |
| 23) Vinyl Acetate | 5.970 | 43 | 2761423 | 786.547 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 563116 | 141.610 | ug/l | 98 |
| 25) 2-Butanone | 6.902 | 43 | 395886 | 620.601 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 527500 | 153.065 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 356495 | 144.373 | ug/l | 94 |
| 28) Bromochloromethane | 7.256 | 49 | 224174 | 131.225 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.268 | 42 | 263943 | 736.644 | ug/l | 96 |
| 30) Chloroform | 7.427 | 83 | 572890 | 143.739 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 485167 | 128.899 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 540513 | 151.377 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 423720 | 143.160 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 186661 | 153.217 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 501205 | 170.502 | ug/l | 99 |
| 39) Methylcyclohexane | 9.115 | 83 | 542900 | 152.474 | ug/l | 98 |
| 40) Benzene | 8.085 | 78 | 1239229 | 148.429 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021025.D
Acq On : 03 Feb 2025 12:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 03 13:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:05:07 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 115234 | 185.120 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 340547 | 158.367 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.201 | 43 | 388966 | 175.917 | ug/l | # | 86 |
| 44) Trichloroethene | 8.872 | 130 | 323716 | 150.703 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 294150 | 147.060 | ug/l | | 100 |
| 46) Dibromomethane | 9.237 | 93 | 161341 | 154.118 | ug/l | | 95 |
| 47) Bromodichloromethane | 9.426 | 83 | 437119 | 160.591 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.225 | 41 | 187040 | 167.251 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.231 | 88 | 32704 | 3078.544 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 965506 | 814.397 | ug/l | | 98 |
| 52) Toluene | 10.176 | 92 | 792134 | 155.591 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 416872 | 166.270 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 483429 | 158.232 | ug/l | | 92 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 209006 | 146.925 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.444 | 69 | 313458 | 200.500 | ug/l | | 93 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 365553 | 149.005 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 721923 | 788.766 | ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 642448 | 763.675 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.914 | 129 | 298751 | 175.351 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 200840 | 153.273 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.652 | 164 | 288752 | 156.856 | ug/l | | 96 |
| 65) Chlorobenzene | 11.444 | 112 | 854481 | 161.190 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 303176 | 159.942 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.524 | 91 | 1560654 | 161.195 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.633 | 106 | 1152452 | 314.841 | ug/l | | 97 |
| 69) o-Xylene | 11.963 | 106 | 543425 | 163.662 | ug/l | | 97 |
| 70) Styrene | 11.975 | 104 | 900989 | 172.776 | ug/l | | 97 |
| 71) Bromoform | 12.139 | 173 | 170929 | 181.883 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.261 | 105 | 1439642 | 154.780 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 337562 | 180.383 | ug/l | | 94 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 229575 | 139.062 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 166289m | 149.965 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 330230 | 166.838 | ug/l | | 92 |
| 78) n-propylbenzene | 12.603 | 91 | 1706799 | 149.261 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 961670 | 153.047 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 1146647 | 156.334 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 84506 | 165.703 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 973177 | 151.120 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 1067144 | 164.670 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 1138490 | 157.248 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 1490237 | 152.184 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 1267584 | 159.829 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 615944 | 153.896 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 600370 | 153.567 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 1172760 | 153.276 | ug/l | | 98 |
| 90) Hexachloroethane | 13.883 | 117 | 264877 | 160.566 | ug/l | | 86 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 529143 | 159.648 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 36737 | 173.904 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 338957 | 199.568 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 204211 | 192.252 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 581994 | 199.946 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 280907 | 197.311 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021025.D
Acq On : 03 Feb 2025 12:44
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 :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 13:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:05:07 2025
Response via : Initial Calibration

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

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

ICAL Form

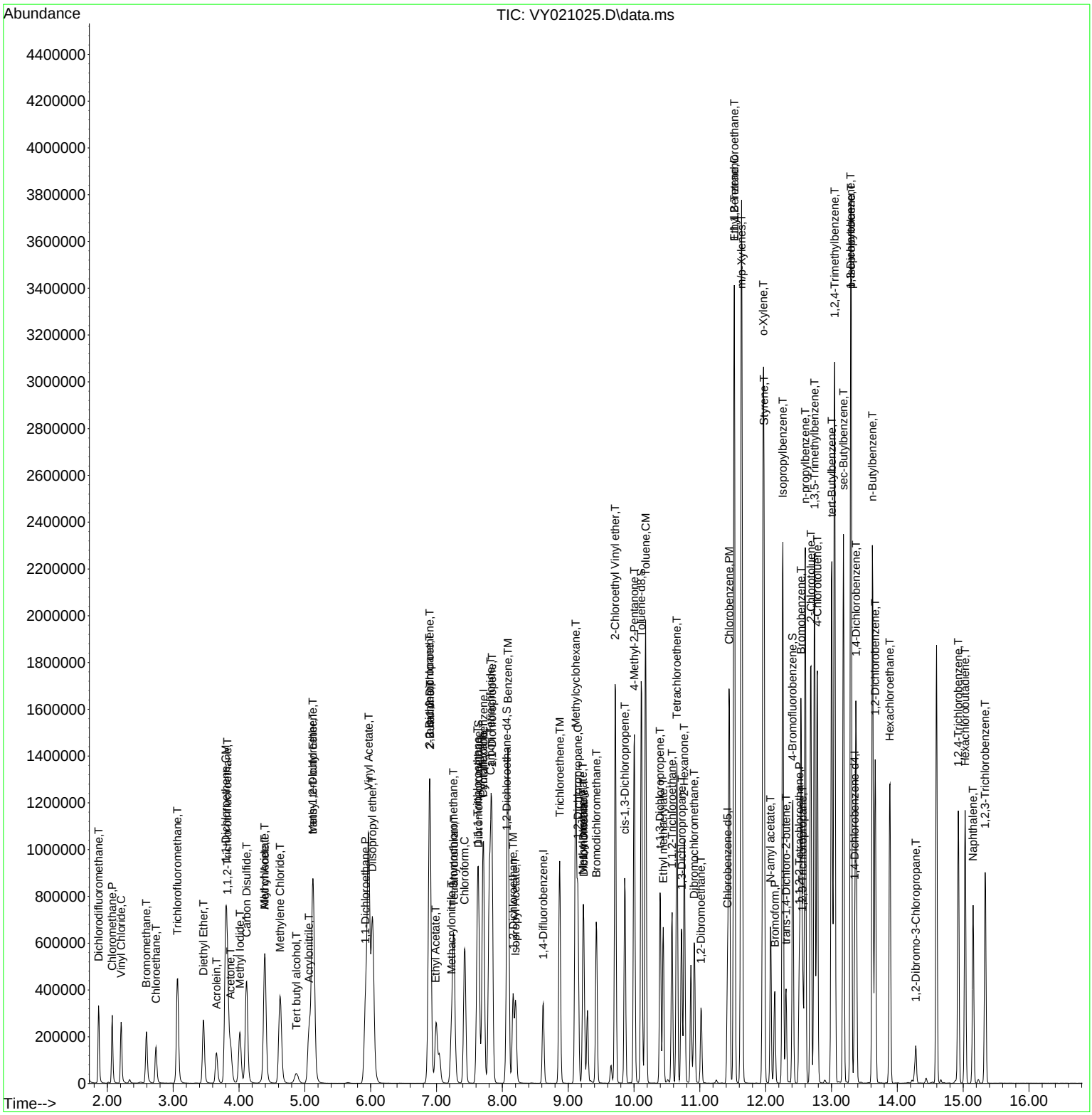
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021025.D
Acq On : 03 Feb 2025 12:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 03 13:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:05:07 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 186133 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 280950 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 237569 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 112062 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 104134 | 54.604 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 109.200% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 104051 | 57.790 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 115.580% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 411045 | 59.966 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 119.940% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 131943 | 58.919 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 117.840% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 86748 | 52.290 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 85135 | 52.006 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 84130 | 51.058 | ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 53592 | 52.624 | ug/l | 94 |
| 6) Chloroethane | 2.738 | 64 | 48969 | 49.925 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 155690 | 51.864 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 43771 | 46.708 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 97040 | 51.507 | ug/l | 95 |
| 10) Methyl Iodide | 4.013 | 142 | 102264 | 48.858 | ug/l | 95 |
| 11) Tert butyl alcohol | 4.860 | 59 | 27677 | 214.161 | ug/l | 96 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 91949 | 51.810 | ug/l | 92 |
| 13) Acrolein | 3.653 | 56 | 46827 | 235.305 | ug/l | 100 |
| 14) Allyl chloride | 4.391 | 41 | 151536 | 50.663 | ug/l | 96 |
| 15) Acrylonitrile | 5.061 | 53 | 89881 | 230.328 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 72566 | 243.997 | ug/l | 96 |
| 17) Carbon Disulfide | 4.110 | 76 | 289409 | 52.004 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 48057 | 46.031 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 213244 | 47.538 | ug/l | 100 |
| 20) Methylene Chloride | 4.628 | 84 | 91358 | 49.414 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 98665 | 50.506 | ug/l | 94 |
| 22) Diisopropyl ether | 6.024 | 45 | 304603 | 49.407 | ug/l | 98 |
| 23) Vinyl Acetate | 5.964 | 43 | 819243 | 238.370 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 179904 | 49.806 | ug/l | 97 |
| 25) 2-Butanone | 6.896 | 43 | 114117 | 233.503 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 169757 | 50.791 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 111947 | 49.785 | ug/l | 94 |
| 28) Bromochloromethane | 7.250 | 49 | 78173 | 54.731 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 75445 | 228.139 | ug/l | 96 |
| 30) Chloroform | 7.427 | 83 | 181229 | 48.846 | ug/l | 97 |
| 31) Cyclohexane | 7.707 | 56 | 162806 | 50.051 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 174612 | 50.620 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 140344 | 52.625 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 54994 | 47.006 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 161137 | 51.711 | ug/l | 100 |
| 39) Methylcyclohexane | 9.115 | 83 | 176554 | 54.123 | ug/l | 97 |
| 40) Benzene | 8.085 | 78 | 399547 | 51.052 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 29193 | 43.131 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 104015 | 47.910 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.201 | 43 | 110476 | 47.523 | ug/l | | 98 |
| 44) Trichloroethene | 8.872 | 130 | 102671 | 50.777 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 92259 | 49.666 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 48251 | 46.914 | ug/l | | 95 |
| 47) Bromodichloromethane | 9.426 | 83 | 134607 | 48.799 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.225 | 41 | 52480 | 49.560 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.231 | 88 | 9588 | 1001.398 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 276605 | 236.615 | ug/l | | 97 |
| 52) Toluene | 10.176 | 92 | 251287 | 51.135 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 123718 | 49.950 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 148244 | 50.550 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 62357 | 46.820 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.444 | 69 | 87450 | 49.082 | ug/l | | 93 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 110606 | 47.980 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 213481 | 251.852 | ug/l | | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 180455 | 239.750 | ug/l | | 96 |
| 60) Dibromochloromethane | 10.914 | 129 | 90009 | 48.123 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 59039 | 47.325 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 92493 | 52.446 | ug/l | | 95 |
| 65) Chlorobenzene | 11.444 | 112 | 268544 | 50.766 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131 | 94662 | 50.356 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.523 | 91 | 492537 | 52.642 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 367445 | 104.978 | ug/l | | 98 |
| 69) o-Xylene | 11.956 | 106 | 169897 | 52.062 | ug/l | | 96 |
| 70) Styrene | 11.975 | 104 | 282879 | 52.009 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 50400 | 48.166 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 467245 | 53.377 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 94701 | 49.483 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 68636 | 47.145 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 47988m | 47.207 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 101991 | 50.490 | ug/l | | 93 |
| 78) n-propylbenzene | 12.596 | 91 | 558013 | 53.513 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 310097 | 51.922 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 375018 | 52.840 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 24332 | 48.841 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 313949 | 51.594 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 348046 | 53.952 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 370353 | 53.370 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 494957 | 53.301 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 411332 | 53.325 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.291 | 146 | 198405 | 50.868 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 193207 | 50.309 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 384473 | 54.636 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 82908 | 51.521 | ug/l | | 84 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 168238 | 49.696 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 10000 | 45.965 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 98409 | 52.224 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 65883 | 52.760 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 154493 | 51.245 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 79793 | 50.882 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

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

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

ICAL Form

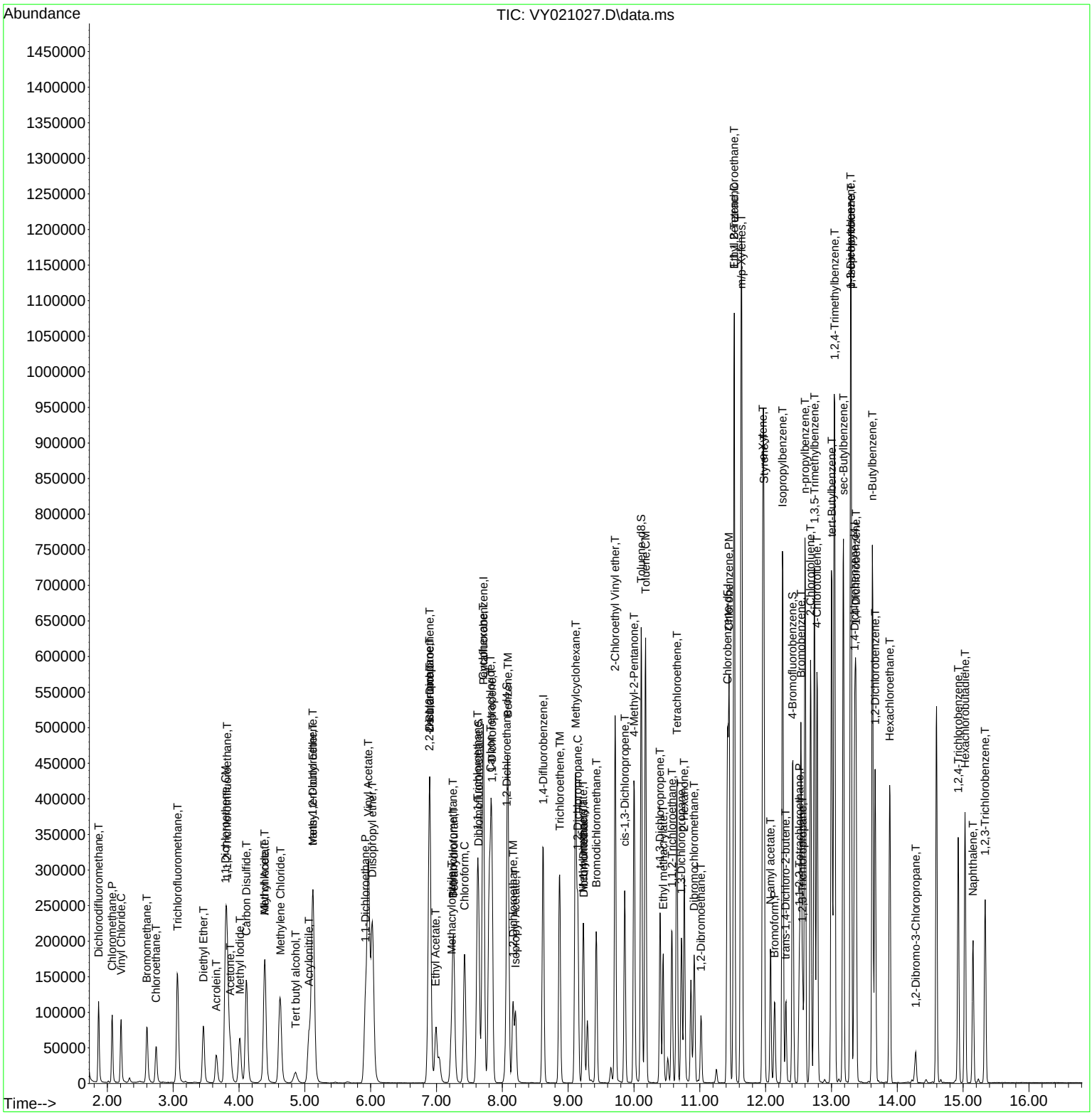
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.446 | 0.466 | -4.5 | 105 | 0.00 |
| 3 | P | Chloromethane | 0.440 | 0.457 | -3.9 | 109 | 0.00 |
| 4 | C | Vinyl Chloride | 0.443 | 0.452 | -2.0# | 107 | 0.00 |
| 5 | T | Bromomethane | 0.274 | 0.288 | -5.1 | 112 | 0.00 |
| 6 | T | Chloroethane | 0.263 | 0.263 | 0.0 | 104 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.806 | 0.836 | -3.7 | 107 | 0.00 |
| 8 | T | Diethyl Ether | 0.252 | 0.235 | 6.7 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.506 | 0.521 | -3.0 | 106 | 0.00 |
| 10 | T | Methyl Iodide | 0.562 | 0.549 | 2.3 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.035 | 0.030 | 14.3 | 94 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.477 | 0.494 | -3.6# | 106 | 0.00 |
| 13 | T | Acrolein | 0.053 | 0.050 | 5.7 | 97 | 0.00 |
| 14 | T | Allyl chloride | 0.803 | 0.814 | -1.4 | 102 | 0.00 |
| 15 | T | Acrylonitrile | 0.105 | 0.097 | 7.6 | 91 | 0.00 |
| 16 | T | Acetone | 0.080 | 0.078 | 2.5 | 101 | -0.01 |
| 17 | T | Carbon Disulfide | 1.495 | 1.555 | -4.0 | 106 | 0.00 |
| 18 | T | Methyl Acetate | 0.280 | 0.258 | 7.9 | 90 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.205 | 1.146 | 4.9 | 95 | 0.00 |
| 20 | T | Methylene Chloride | 0.497 | 0.491 | 1.2 | 102 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.525 | 0.530 | -1.0 | 102 | 0.00 |
| 22 | T | Diisopropyl ether | 1.656 | 1.636 | 1.2 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 0.923 | 0.880 | 4.7 | 93 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.970 | 0.967 | 0.3 | 103 | 0.00 |
| 25 | T | 2-Butanone | 0.131 | 0.123 | 6.1 | 91 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.898 | 0.912 | -1.6 | 105 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.604 | 0.601 | 0.5 | 101 | 0.00 |
| 28 | T | Bromochloromethane | 0.384 | 0.420 | -9.4 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.089 | 0.081 | 9.0 | 89 | 0.00 |
| 30 | C | Chloroform | 0.997 | 0.974 | 2.3# | 100 | 0.00 |
| 31 | T | Cyclohexane | 0.874 | 0.875 | -0.1 | 106 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.927 | 0.938 | -1.2 | 103 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.512 | 0.559 | -9.2 | 112 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.320 | 0.370 | -15.6 | 116 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.475 | 0.500 | -5.3 | 106 | 0.00 |
| 37 | T | Ethyl Acetate | 0.208 | 0.196 | 5.8 | 91 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.555 | 0.574 | -3.4 | 103 | 0.00 |
| 39 | T | Methylcyclohexane | 0.581 | 0.628 | -8.1 | 105 | 0.00 |
| 40 | TM | Benzene | 1.393 | 1.422 | -2.1 | 101 | 0.00 |
| 41 | T | Methacrylonitrile | 0.120 | 0.104 | 13.3 | 92 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.386 | 0.370 | 4.1 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.414 | 0.393 | 5.1 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 0.360 | 0.365 | -1.4 | 103 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.331 | 0.328 | 0.9# | 99 | 0.00 |
| 46 | T | Dibromomethane | 0.183 | 0.172 | 6.0 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 0.491 | 0.479 | 2.4 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.188 | 0.187 | 0.5 | 96 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 96 | 0.00 |
| 50 | S | Toluene-d8 | 1.220 | 1.463 | -19.9 | 120 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.208 | 0.197 | 5.3 | 90 | 0.00 |
| 52 | CM | Toluene | 0.875 | 0.894 | -2.2# | 100 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.441 | 0.440 | 0.2 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.522 | 0.528 | -1.1 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.237 | 0.222 | 6.3 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.317 | 0.311 | 1.9 | 91 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.410 | 0.394 | 3.9 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.151 | 0.152 | -0.7 | 95 | 0.00 |
| 59 | T | 2-Hexanone | 0.134 | 0.128 | 4.5 | 88 | 0.00 |
| 60 | T | Dibromochloromethane | 0.333 | 0.320 | 3.9 | 96 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.222 | 0.210 | 5.4 | 92 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.399 | 0.470 | -17.8 | 115 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 64 | T | Tetrachloroethene | 0.371 | 0.389 | -4.9 | 103 | 0.00 |
| 65 | PM | Chlorobenzene | 1.113 | 1.130 | -1.5 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.396 | 0.398 | -0.5 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 1.969 | 2.073 | -5.3# | 101 | 0.00 |
| 68 | T | m/p-Xylenes | 0.737 | 0.773 | -4.9 | 100 | 0.00 |
| 69 | T | o-Xylene | 0.687 | 0.715 | -4.1 | 100 | 0.00 |
| 70 | T | Styrene | 1.145 | 1.191 | -4.0 | 98 | 0.00 |
| 71 | P | Bromoform | 0.220 | 0.212 | 3.6 | 93 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 73 | T | Isopropylbenzene | 3.906 | 4.170 | -6.8 | 101 | 0.00 |
| 74 | T | N-amyl acetate | 0.854 | 0.845 | 1.1 | 88 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.650 | 0.612 | 5.8 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.454 | 0.428 | 5.7 | 86 | 0.00 |
| 77 | T | Bromobenzene | 0.901 | 0.910 | -1.0 | 98 | 0.00 |
| 78 | T | n-propylbenzene | 4.653 | 4.980 | -7.0 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.665 | 2.767 | -3.8 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.167 | 3.347 | -5.7 | 100 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.222 | 0.217 | 2.3 | 90 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.715 | 2.802 | -3.2 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.878 | 3.106 | -7.9 | 100 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.096 | 3.305 | -6.8 | 100 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.143 | 4.417 | -6.6 | 101 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.442 | 3.671 | -6.7 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.740 | 1.770 | -1.7 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.714 | 1.724 | -0.6 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 3.140 | 3.431 | -9.3 | 101 | 0.00 |
| 90 | T | Hexachloroethane | 0.718 | 0.740 | -3.1 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.510 | 1.501 | 0.6 | 95 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.097 | 0.089 | 8.2 | 85 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.841 | 0.878 | -4.4 | 93 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.557 | 0.588 | -5.6 | 98 | 0.00 |
| 95 | T | Naphthalene | 1.345 | 1.379 | -2.5 | 86 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 0.700 | 0.712 | -1.7 | 90 | 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\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 52.290 | -4.6 | 105 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 52.006 | -4.0 | 109 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.058 | -2.1# | 107 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 52.624 | -5.2 | 112 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 49.925 | 0.2 | 104 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.864 | -3.7 | 107 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 46.708 | 6.6 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.507 | -3.0 | 106 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 48.858 | 2.3 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 214.161 | 14.3 | 94 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.810 | -3.6# | 106 | 0.00 |
| 13 | T | Acrolein | 250.000 | 235.305 | 5.9 | 97 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.663 | -1.3 | 102 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 230.328 | 7.9 | 91 | 0.00 |
| 16 | T | Acetone | 250.000 | 243.997 | 2.4 | 101 | -0.01 |
| 17 | T | Carbon Disulfide | 50.000 | 52.004 | -4.0 | 106 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 46.031 | 7.9 | 90 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 47.538 | 4.9 | 95 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 49.414 | 1.2 | 102 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.506 | -1.0 | 102 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 49.407 | 1.2 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 238.370 | 4.7 | 93 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.806 | 0.4 | 103 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 233.503 | 6.6 | 91 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 50.791 | -1.6 | 105 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.785 | 0.4 | 101 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 54.731 | -9.5 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 228.139 | 8.7 | 89 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.846 | 2.3# | 100 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.051 | -0.1 | 106 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.620 | -1.2 | 103 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 54.604 | -9.2 | 112 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 57.790 | -15.6 | 116 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 52.625 | -5.3 | 106 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 47.006 | 6.0 | 91 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 51.711 | -3.4 | 103 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 54.123 | -8.2 | 105 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.052 | -2.1 | 101 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 43.131 | 13.7 | 92 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 47.910 | 4.2 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 47.523 | 5.0 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.777 | -1.6 | 103 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.666 | 0.7# | 99 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 46.914 | 6.2 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.799 | 2.4 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 49.560 | 0.9 | 96 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 1001.398 | -0.1 | 96 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 59.966 | -19.9 | 120 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 236.615 | 5.4 | 90 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.135 | -2.3# | 100 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.950 | 0.1 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.550 | -1.1 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 46.820 | 6.4 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 49.082 | 1.8 | 91 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 47.980 | 4.0 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 251.852 | -0.7 | 95 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 239.750 | 4.1 | 88 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.123 | 3.8 | 96 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.325 | 5.3 | 92 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 58.919 | -17.8 | 115 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 52.446 | -4.9 | 103 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.766 | -1.5 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.356 | -0.7 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.642 | -5.3# | 101 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 104.978 | -5.0 | 100 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.062 | -4.1 | 100 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.009 | -4.0 | 98 | 0.00 |
| 71 | P | Bromoform | 50.000 | 48.166 | 3.7 | 93 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.377 | -6.8 | 101 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.483 | 1.0 | 88 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.145 | 5.7 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.207 | 5.6 | 86 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.490 | -1.0 | 98 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.513 | -7.0 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.922 | -3.8 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.840 | -5.7 | 100 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 48.841 | 2.3 | 90 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.594 | -3.2 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.952 | -7.9 | 100 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 53.370 | -6.7 | 100 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 53.301 | -6.6 | 101 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.325 | -6.7 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.868 | -1.7 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.309 | -0.6 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.636 | -9.3 | 101 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 51.521 | -3.0 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.696 | 0.6 | 95 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.965 | 8.1 | 85 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.224 | -4.4 | 93 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 52.760 | -5.5 | 98 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 51.245 | -2.5 | 86 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 50.882 | -1.8 | 90 | 0.00 |

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

Raw Data: **VY021130.D**

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: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG No.: Q1290

Instrument ID: MSVOA_Y Calibration Date/Time: 02/07/2025 09:31

Lab File ID: VY021130.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.446 | 0.435 | | -2.47 | 20 |
| Chloromethane | 0.440 | 0.445 | 0.1 | 1.14 | 20 |
| Vinyl Chloride | 0.443 | 0.463 | | 4.51 | 20 |
| Bromomethane | 0.274 | 0.266 | | -2.92 | 20 |
| Chloroethane | 0.263 | 0.274 | | 4.18 | 20 |
| Trichlorofluoromethane | 0.806 | 0.811 | | 0.62 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.506 | 0.498 | | -1.58 | 20 |
| 1,1-Dichloroethene | 0.477 | 0.468 | | -1.89 | 20 |
| Acetone | 0.080 | 0.087 | | 8.75 | 20 |
| Carbon Disulfide | 1.495 | 1.448 | | -3.14 | 20 |
| Methyl tert-butyl Ether | 1.205 | 1.236 | | 2.57 | 20 |
| Methyl Acetate | 0.280 | 0.299 | | 6.79 | 20 |
| Methylene Chloride | 0.497 | 0.490 | | -1.41 | 20 |
| trans-1,2-Dichloroethene | 0.525 | 0.514 | | -2.1 | 20 |
| 1,1-Dichloroethane | 0.970 | 0.959 | 0.1 | -1.13 | 20 |
| Cyclohexane | 0.874 | 0.826 | | -5.49 | 20 |
| 2-Butanone | 0.131 | 0.143 | | 9.16 | 20 |
| Carbon Tetrachloride | 0.555 | 0.551 | | -0.72 | 20 |
| cis-1,2-Dichloroethene | 0.604 | 0.601 | | -0.5 | 20 |
| Bromochloromethane | 0.384 | 0.417 | | 8.59 | 20 |
| Chloroform | 0.997 | 0.986 | | -1.1 | 20 |
| 1,1,1-Trichloroethane | 0.927 | 0.895 | | -3.45 | 20 |
| Methylcyclohexane | 0.581 | 0.590 | | 1.55 | 20 |
| Benzene | 1.393 | 1.387 | | -0.43 | 20 |
| 1,2-Dichloroethane | 0.386 | 0.388 | | 0.52 | 20 |
| Trichloroethene | 0.360 | 0.351 | | -2.5 | 20 |
| 1,2-Dichloropropane | 0.331 | 0.332 | | 0.3 | 20 |
| Bromodichloromethane | 0.491 | 0.493 | | 0.41 | 20 |
| 4-Methyl-2-Pentanone | 0.208 | 0.226 | | 8.65 | 20 |
| Toluene | 0.875 | 0.881 | | 0.69 | 20 |
| t-1,3-Dichloropropene | 0.441 | 0.457 | | 3.63 | 20 |
| cis-1,3-Dichloropropene | 0.522 | 0.535 | | 2.49 | 20 |
| 1,1,2-Trichloroethane | 0.237 | 0.235 | | -0.84 | 20 |
| 2-Hexanone | 0.134 | 0.149 | | 11.19 | 20 |
| Dibromochloromethane | 0.333 | 0.335 | | 0.6 | 20 |
| 1,2-Dibromoethane | 0.222 | 0.225 | | 1.35 | 20 |
| Tetrachloroethene | 0.371 | 0.358 | | -3.5 | 20 |
| Chlorobenzene | 1.113 | 1.096 | 0.3 | -1.53 | 20 |

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

Raw Data: **VY021130.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG No.: Q1290

Instrument ID: MSVOA_Y Calibration Date/Time: 02/07/2025 09:31

Lab File ID: VY021130.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.969 | 1.957 | | -0.61 | 20 |
| m/p-Xylenes | 0.737 | 0.743 | | 0.81 | 20 |
| o-Xylene | 0.687 | 0.691 | | 0.58 | 20 |
| Styrene | 1.145 | 1.163 | | 1.57 | 20 |
| Bromoform | 0.220 | 0.223 | 0.1 | 1.36 | 20 |
| Isopropylbenzene | 3.906 | 3.858 | | -1.23 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.650 | 0.647 | 0.3 | -0.46 | 20 |
| 1,3-Dichlorobenzene | 1.740 | 1.684 | | -3.22 | 20 |
| 1,4-Dichlorobenzene | 1.714 | 1.650 | | -3.73 | 20 |
| 1,2-Dichlorobenzene | 1.510 | 1.457 | | -3.51 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.097 | 0.097 | | 0 | 20 |
| 1,2,4-Trichlorobenzene | 0.841 | 0.867 | | 3.09 | 20 |
| 1,2,3-Trichlorobenzene | 0.700 | 0.712 | | 1.71 | 20 |
| 1,2-Dichloroethane-d4 | 0.512 | 0.471 | | -8.01 | 20 |
| Dibromofluoromethane | 0.320 | 0.301 | | -5.94 | 20 |
| Toluene-d8 | 1.220 | 1.134 | | -7.05 | 20 |
| 4-Bromofluorobenzene | 0.399 | 0.383 | | -4.01 | 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\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 195996 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 297405 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 257416 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 124211 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 92231 | 45.929 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 91.860% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 89545 | 46.981 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 93.960% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 337295 | 46.484 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 92.960% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 113858 | 48.030 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 96.060% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 85162 | 48.751 | ug/l | 97 |
| 3) Chloromethane | 2.074 | 50 | 87176 | 50.573 | ug/l | 99 |
| 4) Vinyl Chloride | 2.214 | 62 | 90658 | 52.252 | ug/l | 98 |
| 5) Bromomethane | 2.604 | 94 | 52224 | 48.700 | ug/l | 93 |
| 6) Chloroethane | 2.745 | 64 | 53770 | 52.061 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 158921 | 50.276 | ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 50250 | 50.924 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 97643 | 49.219 | ug/l | 97 |
| 10) Methyl Iodide | 4.013 | 142 | 108711 | 49.324 | ug/l | 94 |
| 11) Tert butyl alcohol | 4.872 | 59 | 32899 | 241.758 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 91761 | 49.102 | ug/l | 95 |
| 13) Acrolein | 3.659 | 56 | 47341 | 225.916 | ug/l | 99 |
| 14) Allyl chloride | 4.397 | 41 | 158977 | 50.476 | ug/l | 96 |
| 15) Acrylonitrile | 5.067 | 53 | 108957 | 265.161 | ug/l | 100 |
| 16) Acetone | 3.879 | 43 | 85639 | 273.463 | ug/l | 95 |
| 17) Carbon Disulfide | 4.116 | 76 | 283752 | 48.422 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 58539 | 53.249 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 242279 | 51.293 | ug/l | 100 |
| 20) Methylene Chloride | 4.628 | 84 | 96039 | 49.332 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 100664 | 48.936 | ug/l | 95 |
| 22) Diisopropyl ether | 6.031 | 45 | 334597 | 51.541 | ug/l | 97 |
| 23) Vinyl Acetate | 5.970 | 43 | 948138 | 261.991 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 187948 | 49.414 | ug/l | 100 |
| 25) 2-Butanone | 6.902 | 43 | 139680 | 271.427 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 172382 | 48.981 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 117862 | 49.778 | ug/l | 94 |
| 28) Bromochloromethane | 7.256 | 49 | 81724 | 54.337 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.268 | 42 | 93366 | 268.123 | ug/l | 95 |
| 30) Chloroform | 7.433 | 83 | 193238 | 49.462 | ug/l | 97 |
| 31) Cyclohexane | 7.707 | 56 | 161942 | 47.281 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 175381 | 48.284 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 140035 | 49.603 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 66015 | 53.304 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 163777 | 49.650 | ug/l | 99 |
| 39) Methylcyclohexane | 9.115 | 83 | 175495 | 50.822 | ug/l | 98 |
| 40) Benzene | 8.085 | 78 | 412595 | 49.802 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 36819 | 51.388 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 115389 | 50.209 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.201 | 43 | 130921 | 53.202 | ug/l | | 97 |
| 44) Trichloroethene | 8.872 | 130 | 104381 | 48.766 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 98859 | 50.274 | ug/l | | 97 |
| 46) Dibromomethane | 9.237 | 93 | 54188 | 49.771 | ug/l | | 95 |
| 47) Bromodichloromethane | 9.432 | 83 | 146544 | 50.187 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.231 | 41 | 59763 | 53.316 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.237 | 88 | 11187 | 1103.757 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 10.005 | 43 | 335635 | 271.225 | ug/l | | 97 |
| 52) Toluene | 10.176 | 92 | 262159 | 50.396 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 135953 | 51.853 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 159108 | 51.253 | ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 69843 | 49.539 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.444 | 69 | 101325 | 53.723 | ug/l | | 92 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 125517 | 51.435 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 240699 | 268.251 | ug/l | | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 222179 | 278.852 | ug/l | | 96 |
| 60) Dibromochloromethane | 10.920 | 129 | 99592 | 50.301 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 66876 | 50.641 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.652 | 164 | 92137 | 48.216 | ug/l | | 98 |
| 65) Chlorobenzene | 11.450 | 112 | 282230 | 49.239 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 99431 | 48.814 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.524 | 91 | 503852 | 49.699 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.639 | 106 | 382420 | 100.832 | ug/l | | 99 |
| 69) o-Xylene | 11.962 | 106 | 177959 | 50.328 | ug/l | | 97 |
| 70) Styrene | 11.975 | 104 | 299339 | 50.792 | ug/l | | 98 |
| 71) Bromoform | 12.139 | 173 | 57383 | 50.611 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 479265 | 49.395 | ug/l | | 99 |
| 74) N-amyl acetate | 12.078 | 43 | 111245 | 52.442 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 80421 | 49.837 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 52676m | 46.751 | ug/l | | |
| 77) Bromobenzene | 12.542 | 156 | 108924 | 48.648 | ug/l | | 94 |
| 78) n-propylbenzene | 12.603 | 91 | 579395 | 50.129 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 324838 | 49.070 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 389821 | 49.554 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 28108 | 50.902 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 333089 | 49.386 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 350735 | 49.051 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 386069 | 50.193 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 506564 | 49.216 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 423069 | 49.482 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 209195 | 48.388 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 204979 | 48.154 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.627 | 91 | 396714 | 50.861 | ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 87392 | 48.996 | ug/l | | 88 |
| 91) 1,2-Dichlorobenzene | 13.669 | 146 | 181015 | 48.240 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 12060 | 50.012 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 107696 | 51.562 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 66832 | 48.285 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 181117 | 54.200 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 88483 | 50.905 | ug/l | | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

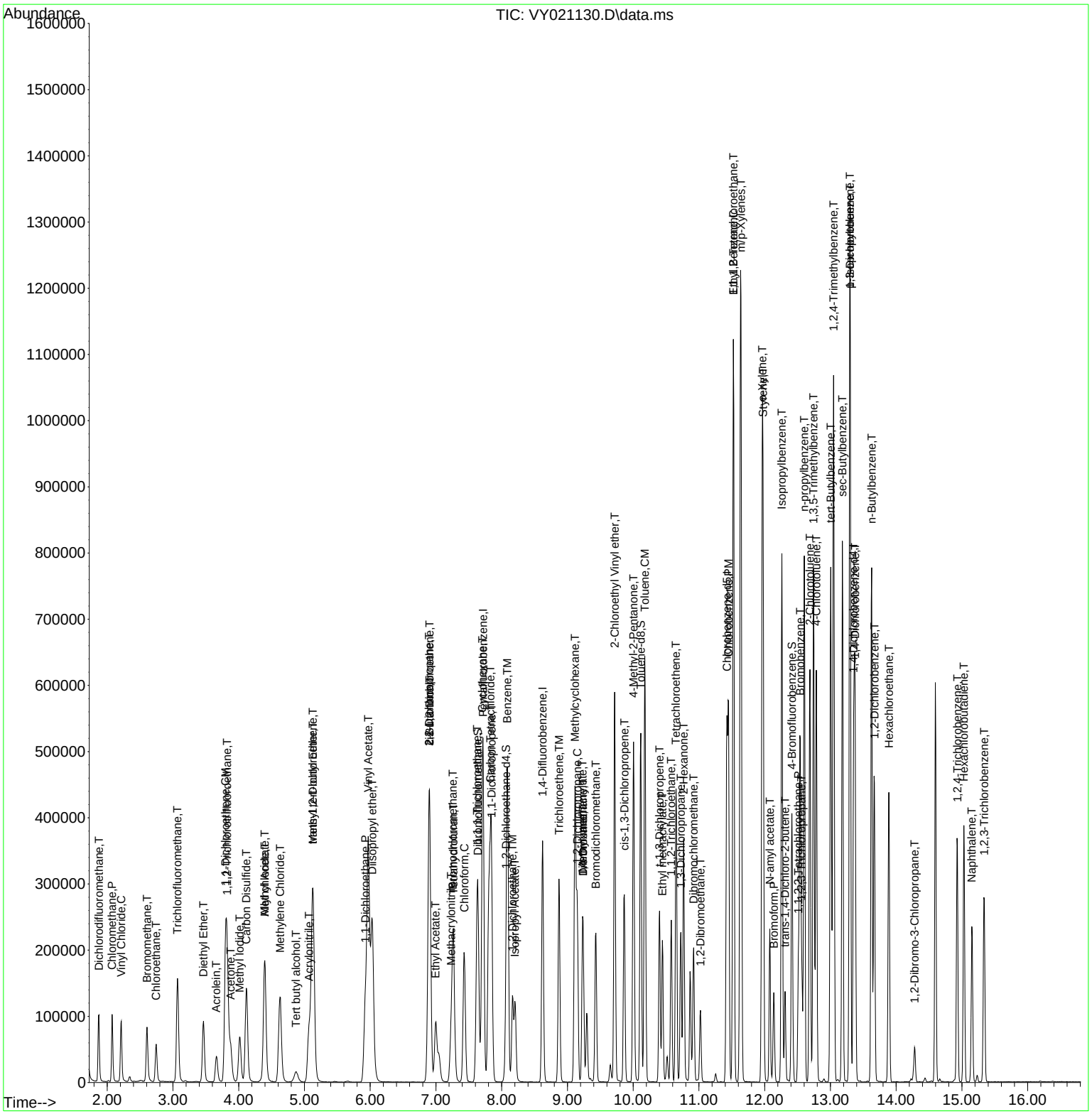
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration



Sample Results: **VY021130.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 0.446 | 0.435 | 2.5 | 103 | 0.00 |
| 3 | P | Chloromethane | 0.440 | 0.445 | -1.1 | 112 | 0.00 |
| 4 | C | Vinyl Chloride | 0.443 | 0.463 | -4.5# | 116 | 0.00 |
| 5 | T | Bromomethane | 0.274 | 0.266 | 2.9 | 110 | 0.00 |
| 6 | T | Chloroethane | 0.263 | 0.274 | -4.2 | 114 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.806 | 0.811 | -0.6 | 109 | 0.00 |
| 8 | T | Diethyl Ether | 0.252 | 0.256 | -1.6 | 112 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.506 | 0.498 | 1.6 | 107 | 0.00 |
| 10 | T | Methyl Iodide | 0.562 | 0.555 | 1.2 | 100 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.035 | 0.034 | 2.9 | 111 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.477 | 0.468 | 1.9# | 106 | 0.00 |
| 13 | T | Acrolein | 0.053 | 0.048 | 9.4 | 98 | 0.00 |
| 14 | T | Allyl chloride | 0.803 | 0.811 | -1.0 | 107 | 0.00 |
| 15 | T | Acrylonitrile | 0.105 | 0.111 | -5.7 | 111 | 0.00 |
| 16 | T | Acetone | 0.080 | 0.087 | -8.7 | 119 | 0.00 |
| 17 | T | Carbon Disulfide | 1.495 | 1.448 | 3.1 | 104 | 0.00 |
| 18 | T | Methyl Acetate | 0.280 | 0.299 | -6.8 | 110 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.205 | 1.236 | -2.6 | 108 | 0.01 |
| 20 | T | Methylene Chloride | 0.497 | 0.490 | 1.4 | 107 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.525 | 0.514 | 2.1 | 104 | 0.00 |
| 22 | T | Diisopropyl ether | 1.656 | 1.707 | -3.1 | 109 | 0.00 |
| 23 | T | Vinyl Acetate | 0.923 | 0.968 | -4.9 | 108 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.970 | 0.959 | 1.1 | 107 | 0.00 |
| 25 | T | 2-Butanone | 0.131 | 0.143 | -9.2 | 112 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.898 | 0.880 | 2.0 | 107 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.604 | 0.601 | 0.5 | 106 | 0.00 |
| 28 | T | Bromochloromethane | 0.384 | 0.417 | -8.6 | 107 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.089 | 0.095 | -6.7 | 110 | 0.00 |
| 30 | C | Chloroform | 0.997 | 0.986 | 1.1# | 106 | 0.00 |
| 31 | T | Cyclohexane | 0.874 | 0.826 | 5.5 | 106 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.927 | 0.895 | 3.5 | 104 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.512 | 0.471 | 8.0 | 99 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.320 | 0.301 | 5.9 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.475 | 0.471 | 0.8 | 106 | 0.00 |
| 37 | T | Ethyl Acetate | 0.208 | 0.222 | -6.7 | 110 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.555 | 0.551 | 0.7 | 105 | 0.00 |
| 39 | T | Methylcyclohexane | 0.581 | 0.590 | -1.5 | 104 | 0.00 |
| 40 | TM | Benzene | 1.393 | 1.387 | 0.4 | 105 | 0.00 |
| 41 | T | Methacrylonitrile | 0.120 | 0.124 | -3.3 | 116 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.386 | 0.388 | -0.5 | 107 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.414 | 0.440 | -6.3 | 109 | 0.00 |
| 44 | TM | Trichloroethene | 0.360 | 0.351 | 2.5 | 105 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.331 | 0.332 | -0.3# | 106 | 0.00 |
| 46 | T | Dibromomethane | 0.183 | 0.182 | 0.5 | 105 | 0.00 |
| 47 | T | Bromodichloromethane | 0.491 | 0.493 | -0.4 | 106 | 0.00 |
| 48 | T | Methyl methacrylate | 0.188 | 0.201 | -6.9 | 109 | 0.00 |

Sample Results: **VY021130.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 112 | 0.00 |
| 50 | S | Toluene-d8 | 1.220 | 1.134 | 7.0 | 98 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.208 | 0.226 | -8.7 | 109 | 0.00 |
| 52 | CM | Toluene | 0.875 | 0.881 | -0.7# | 105 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.441 | 0.457 | -3.6 | 106 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.522 | 0.535 | -2.5 | 106 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.237 | 0.235 | 0.8 | 104 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.317 | 0.341 | -7.6 | 105 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.410 | 0.422 | -2.9 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.151 | 0.162 | -7.3 | 107 | 0.00 |
| 59 | T | 2-Hexanone | 0.134 | 0.149 | -11.2 | 108 | 0.00 |
| 60 | T | Dibromochloromethane | 0.333 | 0.335 | -0.6 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.222 | 0.225 | -1.4 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.399 | 0.383 | 4.0 | 99 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 64 | T | Tetrachloroethene | 0.371 | 0.358 | 3.5 | 102 | 0.00 |
| 65 | PM | Chlorobenzene | 1.113 | 1.096 | 1.5 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.396 | 0.386 | 2.5 | 104 | 0.00 |
| 67 | C | Ethyl Benzene | 1.969 | 1.957 | 0.6# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 0.737 | 0.743 | -0.8 | 104 | 0.00 |
| 69 | T | o-Xylene | 0.687 | 0.691 | -0.6 | 105 | 0.00 |
| 70 | T | Styrene | 1.145 | 1.163 | -1.6 | 104 | 0.00 |
| 71 | P | Bromoform | 0.220 | 0.223 | -1.4 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 73 | T | Isopropylbenzene | 3.906 | 3.858 | 1.2 | 104 | 0.00 |
| 74 | T | N-amyl acetate | 0.854 | 0.896 | -4.9 | 104 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.650 | 0.647 | 0.5 | 105 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.454 | 0.424 | 6.6 | 94 | 0.00 |
| 77 | T | Bromobenzene | 0.901 | 0.877 | 2.7 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 4.653 | 4.665 | -0.3 | 104 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.665 | 2.615 | 1.9 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.167 | 3.138 | 0.9 | 104 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.222 | 0.226 | -1.8 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.715 | 2.682 | 1.2 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.878 | 2.824 | 1.9 | 101 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.096 | 3.108 | -0.4 | 104 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.143 | 4.078 | 1.6 | 104 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.442 | 3.406 | 1.0 | 102 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.740 | 1.684 | 3.2 | 103 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.714 | 1.650 | 3.7 | 102 | 0.00 |
| 89 | T | n-Butylbenzene | 3.140 | 3.194 | -1.7 | 104 | 0.00 |
| 90 | T | Hexachloroethane | 0.718 | 0.704 | 1.9 | 104 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.510 | 1.457 | 3.5 | 102 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.097 | 0.097 | 0.0 | 103 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.841 | 0.867 | -3.1 | 102 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.557 | 0.538 | 3.4 | 100 | 0.00 |
| 95 | T | Naphthalene | 1.345 | 1.458 | -8.4 | 101 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 0.700 | 0.712 | -1.7 | 100 | 0.00 |

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

Sample Results: **VY021130.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 48.751 | 2.5 | 103 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 50.573 | -1.1 | 112 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 52.252 | -4.5# | 116 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 48.700 | 2.6 | 110 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 52.061 | -4.1 | 114 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.276 | -0.6 | 109 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.924 | -1.8 | 112 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 49.219 | 1.6 | 107 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.324 | 1.4 | 100 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 241.758 | 3.3 | 111 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.102 | 1.8# | 106 | 0.00 |
| 13 | T | Acrolein | 250.000 | 225.916 | 9.6 | 98 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.476 | -1.0 | 107 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 265.161 | -6.1 | 111 | 0.00 |
| 16 | T | Acetone | 250.000 | 273.463 | -9.4 | 119 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.422 | 3.2 | 104 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 53.249 | -6.5 | 110 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 51.293 | -2.6 | 108 | 0.01 |
| 20 | T | Methylene Chloride | 50.000 | 49.332 | 1.3 | 107 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.936 | 2.1 | 104 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 51.541 | -3.1 | 109 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 261.991 | -4.8 | 108 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.414 | 1.2 | 107 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 271.427 | -8.6 | 112 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 48.981 | 2.0 | 107 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.778 | 0.4 | 106 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 54.337 | -8.7 | 107 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 268.123 | -7.2 | 110 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.462 | 1.1# | 106 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.281 | 5.4 | 106 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.284 | 3.4 | 104 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 45.929 | 8.1 | 99 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 46.981 | 6.0 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.603 | 0.8 | 106 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.304 | -6.6 | 110 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 49.650 | 0.7 | 105 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.822 | -1.6 | 104 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.802 | 0.4 | 105 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 51.388 | -2.8 | 116 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.209 | -0.4 | 107 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.202 | -6.4 | 109 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 48.766 | 2.5 | 105 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.274 | -0.5# | 106 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.771 | 0.5 | 105 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.187 | -0.4 | 106 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 53.316 | -6.6 | 109 | 0.00 |

Sample Results: **VY021130.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 1103.757 | -10.4 | 112 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 46.484 | 7.0 | 98 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 271.225 | -8.5 | 109 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.396 | -0.8# | 105 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.853 | -3.7 | 106 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.253 | -2.5 | 106 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.539 | 0.9 | 104 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.723 | -7.4 | 105 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.435 | -2.9 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 268.251 | -7.3 | 107 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 278.852 | -11.5 | 108 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.301 | -0.6 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.641 | -1.3 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 48.030 | 3.9 | 99 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.216 | 3.6 | 102 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.239 | 1.5 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.814 | 2.4 | 104 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.699 | 0.6# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 100.832 | -0.8 | 104 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.328 | -0.7 | 105 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.792 | -1.6 | 104 | 0.00 |
| 71 | P | Bromoform | 50.000 | 50.611 | -1.2 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.395 | 1.2 | 104 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.442 | -4.9 | 104 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.837 | 0.3 | 105 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 46.751 | 6.5 | 94 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.648 | 2.7 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.129 | -0.3 | 104 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.070 | 1.9 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.554 | 0.9 | 104 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 50.902 | -1.8 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.386 | 1.2 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.051 | 1.9 | 101 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 50.193 | -0.4 | 104 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.216 | 1.6 | 104 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 49.482 | 1.0 | 102 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.388 | 3.2 | 103 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.154 | 3.7 | 102 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.861 | -1.7 | 104 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 48.996 | 2.0 | 104 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.240 | 3.5 | 102 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.012 | -0.0 | 103 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.562 | -3.1 | 102 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.285 | 3.4 | 100 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 54.200 | -8.4 | 101 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021130.D
Acq On : 07 Feb 2025 09:31
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: Feb 08 02:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
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 | 50.905 | -1.8 | 100 | 0.00 |

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

# QC SAMPLE DATA

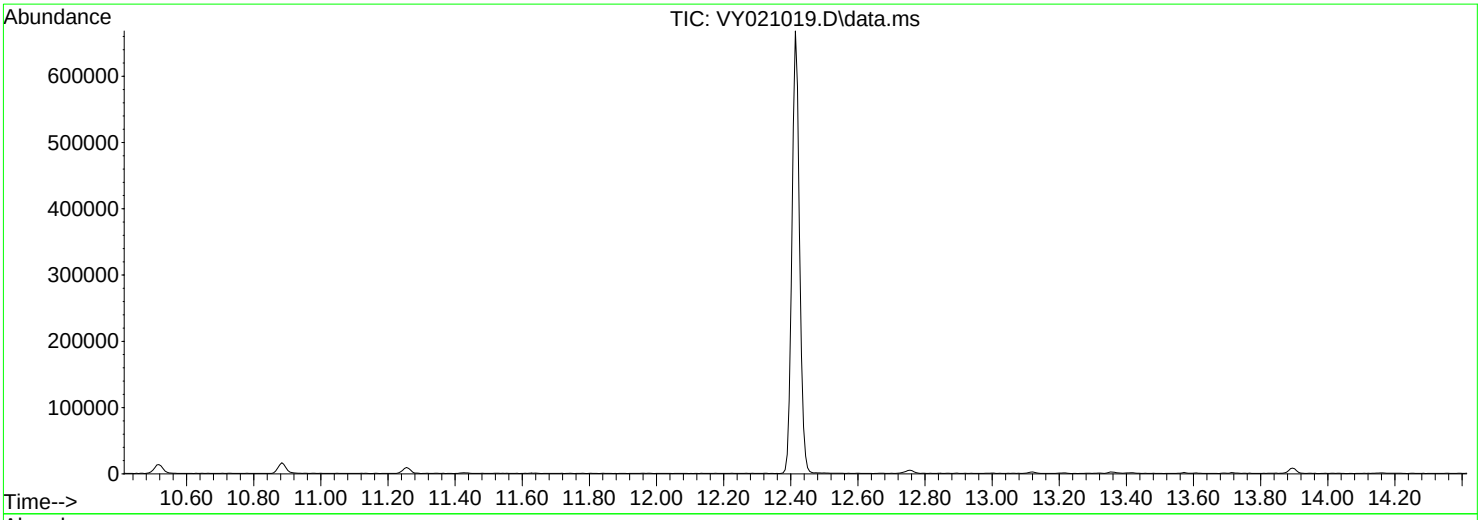
Sample Results: **VY021019.D**

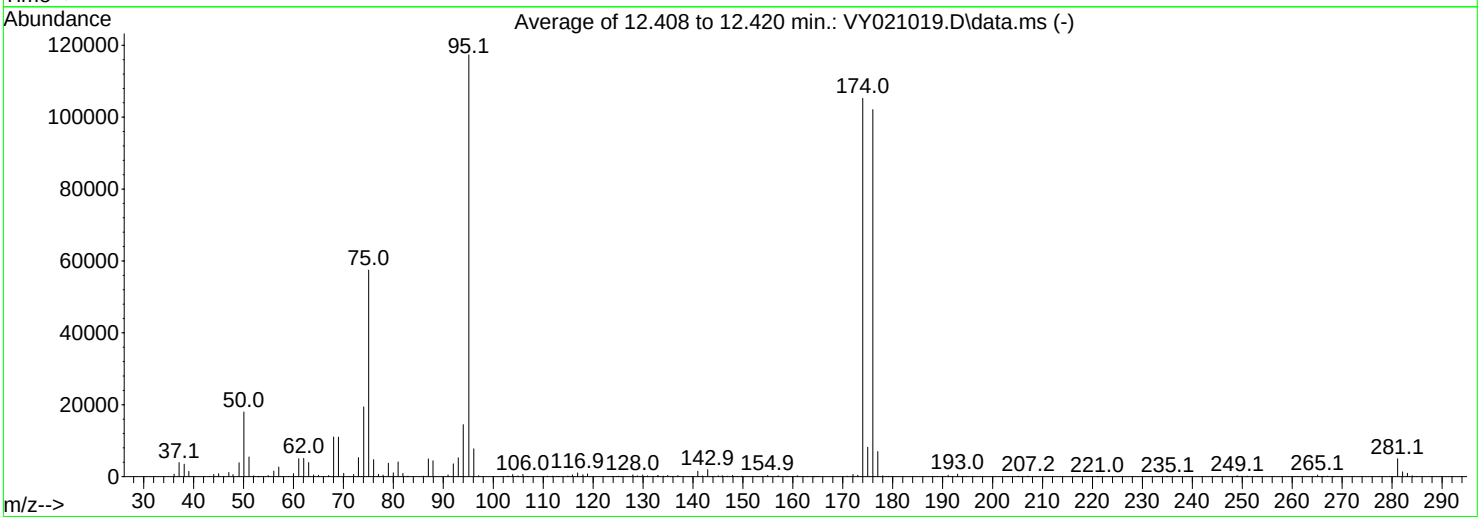
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021019.D
Acq On : 03 Feb 2025 09:51
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Title : SW846 8260
Last Update : Mon Feb 03 13:08:38 2025




AutoFind: Scans 1753, 1754, 1755; 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 | 15.3 | 17983 | PASS |
| 75 | 95 | 30 | 60 | 49.0 | 57469 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 117333 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 7767 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 390 | PASS |
| 174 | 95 | 50 | 100 | 89.7 | 105227 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 8179 | PASS |
| 176 | 174 | 95 | 101 | 97.0 | 102091 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 6972 | PASS |

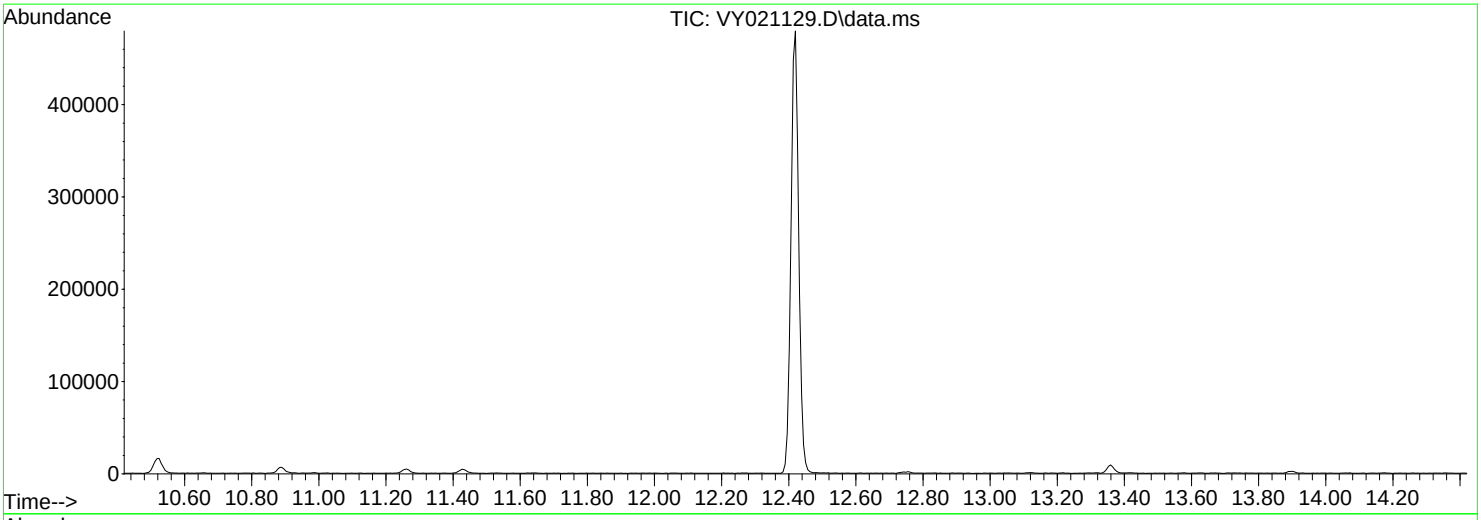
Sample Results: **VY021129.D**

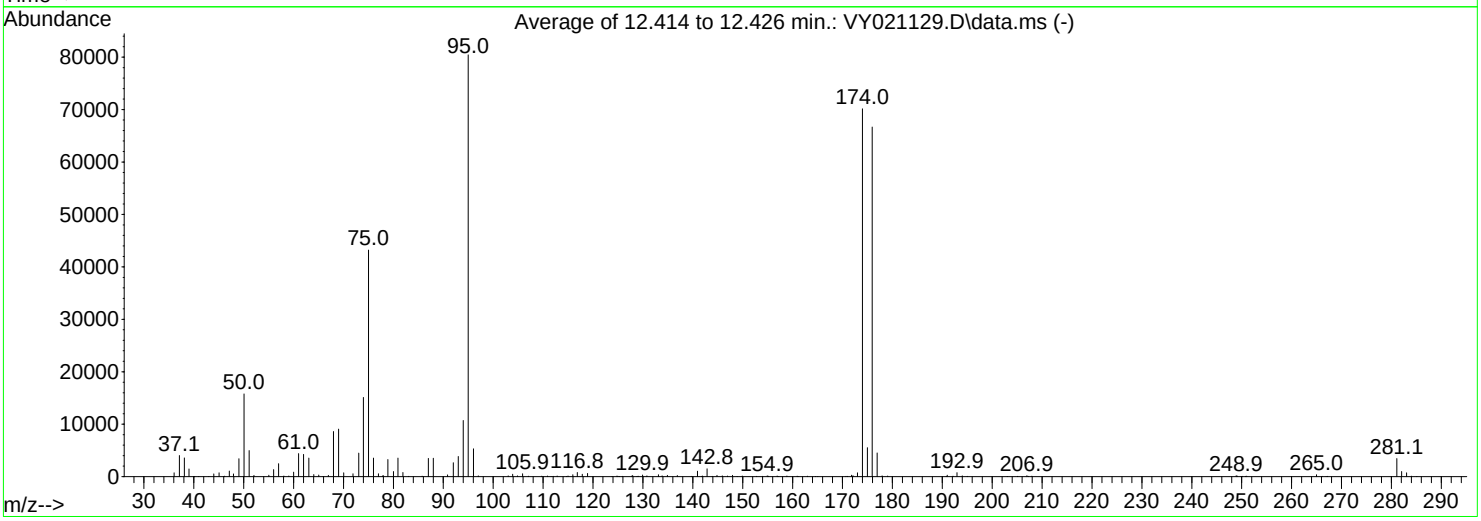
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021129.D
Acq On : 07 Feb 2025 09:01
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Title : SW846 8260
Last Update : Mon Feb 03 13:08:38 2025




AutoFind: Scans 1754, 1755, 1756; Background Corrected with Scan 1746

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.6 | 15776 | PASS |
| 75 | 95 | 30 | 60 | 53.7 | 43211 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 80435 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 5322 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 732 | PASS |
| 174 | 95 | 50 | 100 | 87.2 | 70152 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 5516 | PASS |
| 176 | 174 | 95 | 101 | 95.0 | 66669 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 4515 | PASS |

Raw Data: **VY021131.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBL01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021131.D | 1 | | 02/07/25 10:08 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.77 | U | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 6.20 | U | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.30 | U | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 3.40 | U | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.63 | U | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.69 | U | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 5.70 | U | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.40 | U | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.66 | U | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.56 | U | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.40 | U | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 0.67 | U | 0.67 | 5.00 | ug/Kg |

Raw Data: **VY021131.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBL01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021131.D | 1 | | 02/07/25 10:08 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.57 | U | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.80 | U | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.89 | U | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.70 | U | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.81 | U | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.80 | U | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.59 | U | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.3 | | 70 (50) - 130 (163) | 103% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.4 | | 70 (54) - 130 (147) | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.6 | | 70 (58) - 130 (134) | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.6 | | 70 (29) - 130 (146) | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 223000 | 7.719 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 404000 | 8.622 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 365000 | 11.426 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 134000 | 13.352 | | | |

Raw Data: **VY021131.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBL01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021131.D | 1 | | 02/07/25 10:08 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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\VY020725\
Data File : VY021131.D
Acq On : 07 Feb 2025 10:08
Operator : SY/MD
Sample : VY0207SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Quant Time: Feb 08 02:36:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

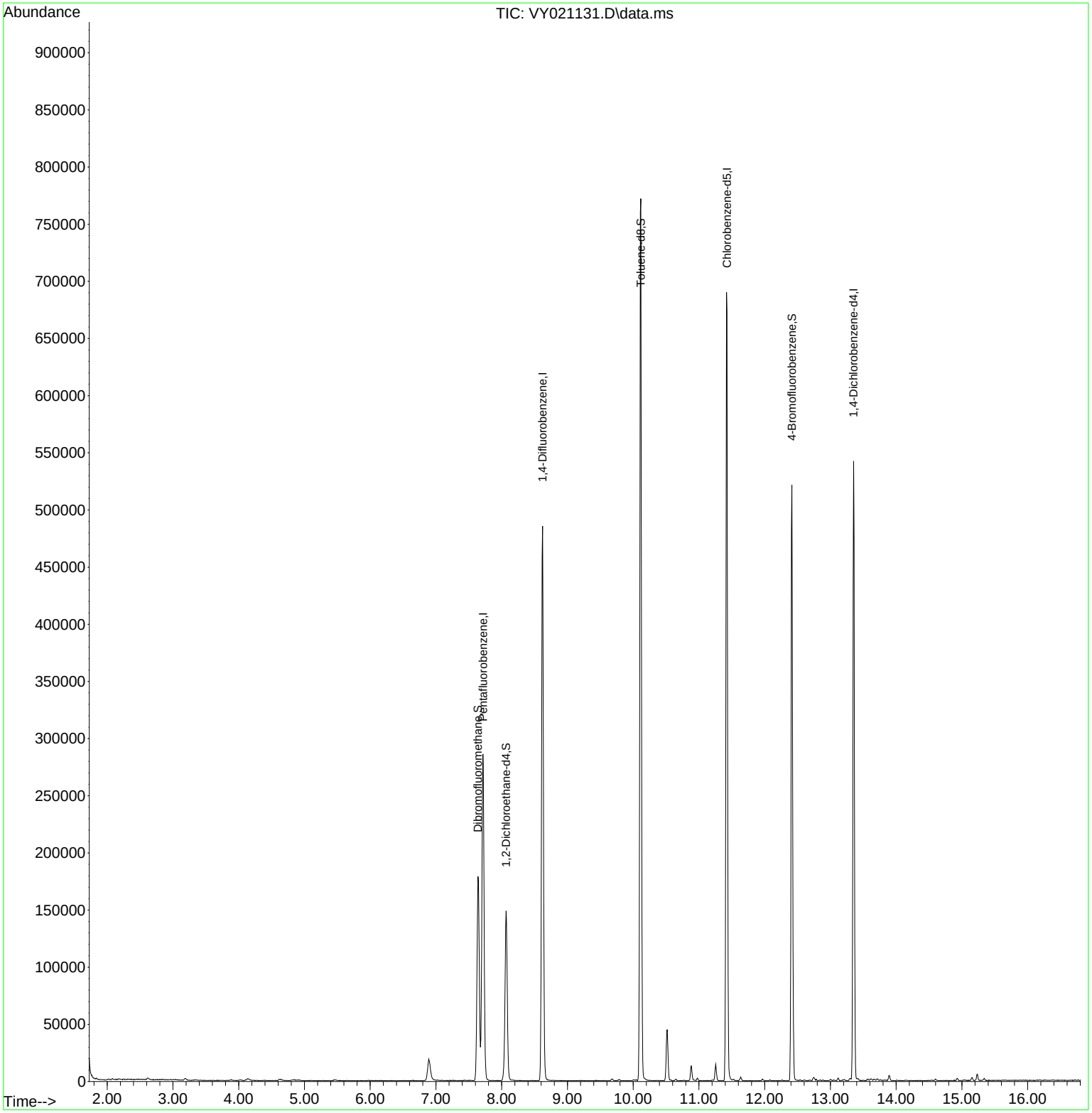
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 222650 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 403911 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 364645 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 133881 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 116979 | 51.279 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.560% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 127961 | 49.434 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.860% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 488700 | 49.590 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.180% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 153343 | 47.630 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.260% | | | |
| Target Compounds | | | | | | Qvalue |

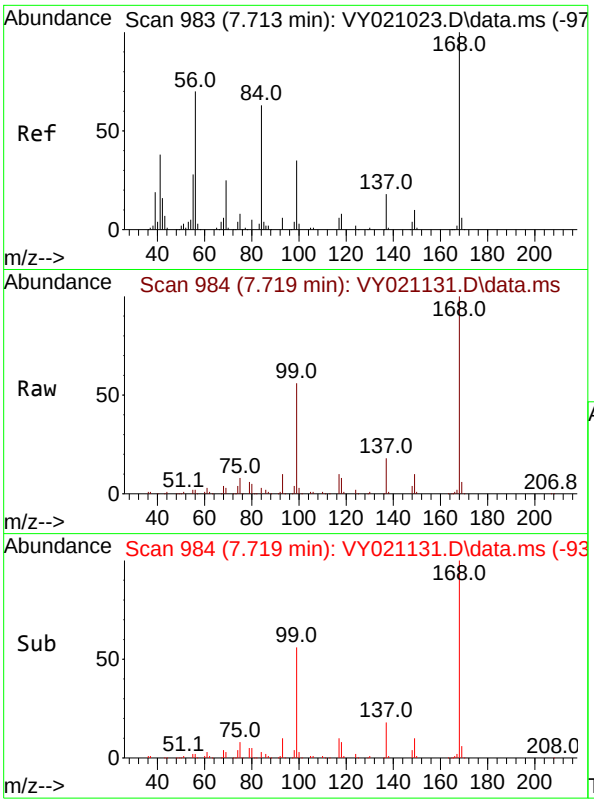
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021131.D
Acq On : 07 Feb 2025 10:08
Operator : SY/MD
Sample : VY0207SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Quant Time: Feb 08 02:36:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration



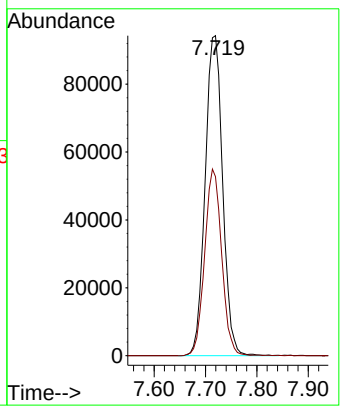


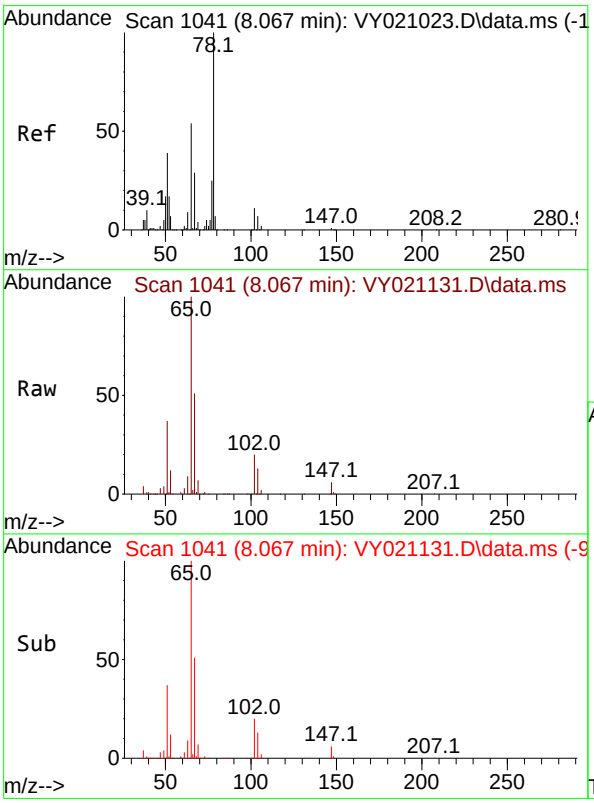

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021131.D
Acq: 07 Feb 2025 10:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Tgt Ion:168 Resp: 222650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.9 | 44.2 | 66.4 |

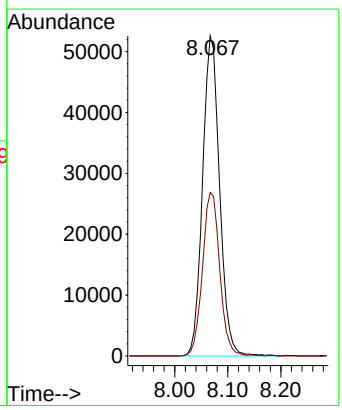


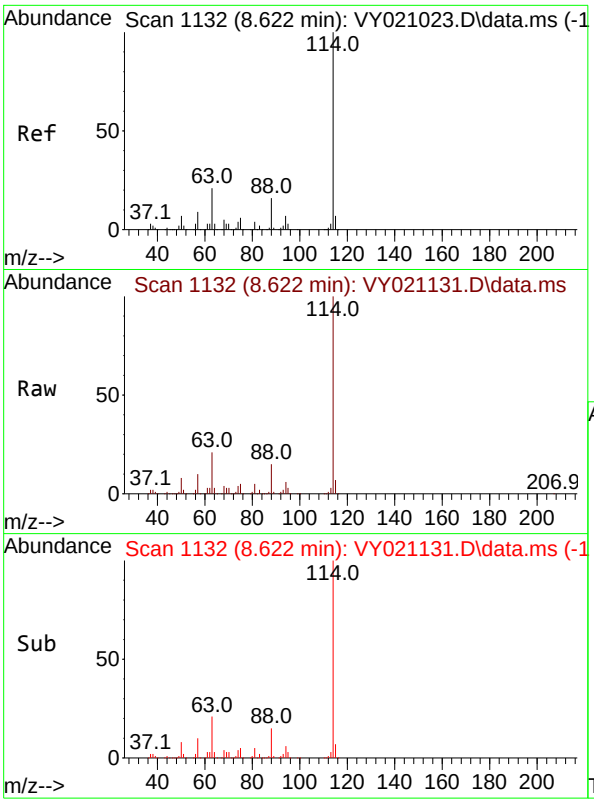




#33
1,2-Dichloroethane-d4
Concen: 51.279 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY021131.D
Acq: 07 Feb 2025 10:08

Tgt Ion: 65 Resp: 116979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.9 | 0.0 | 109.0 |



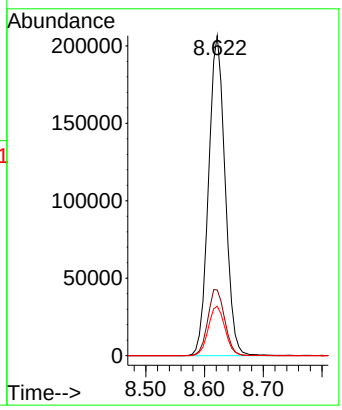


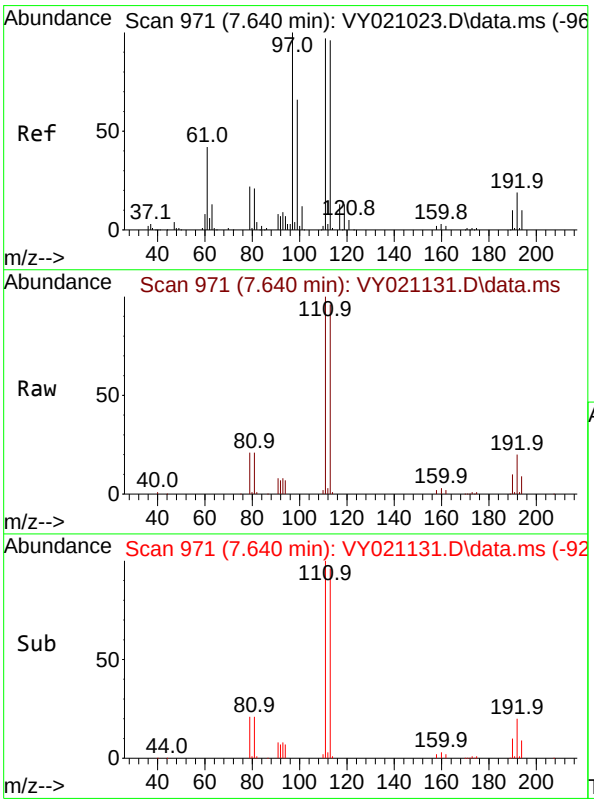

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021131.D
Acq: 07 Feb 2025 10:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Tgt Ion:114 Resp: 403911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 37.4 |
| 88 | 15.4 | 0.0 | 29.0 |

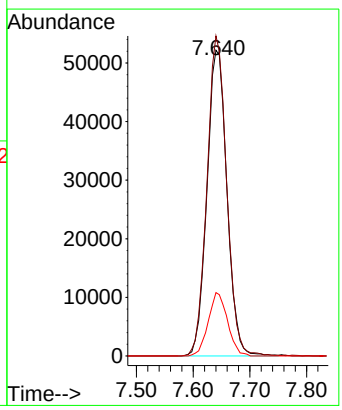


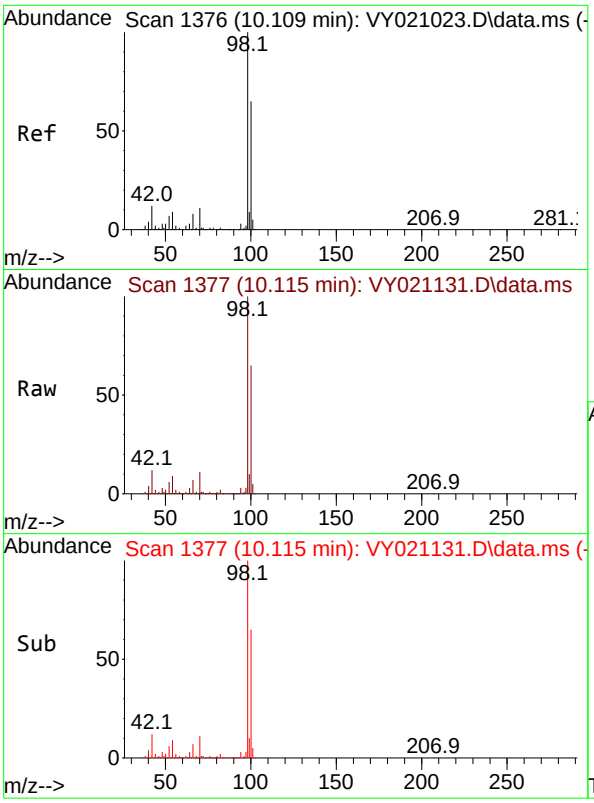




#35
Dibromofluoromethane
Concen: 49.434 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY021131.D
Acq: 07 Feb 2025 10:08

Tgt Ion:113 Resp: 127961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 83.8 | 125.6 |
| 192 | 20.0 | 14.5 | 21.7 |



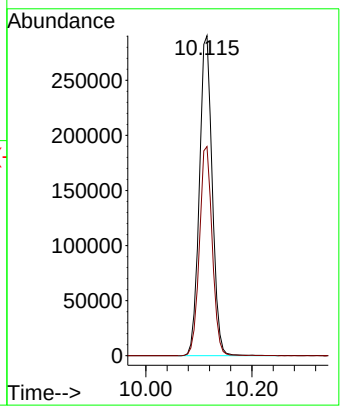


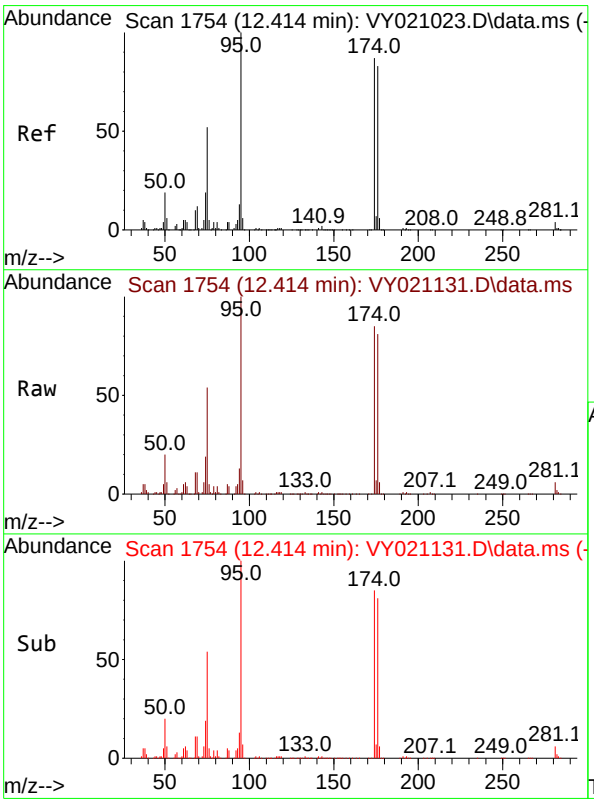

#50
Toluene-d8
Concen: 49.590 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021131.D
Acq: 07 Feb 2025 10:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Tgt Ion: 98 Resp: 488700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |

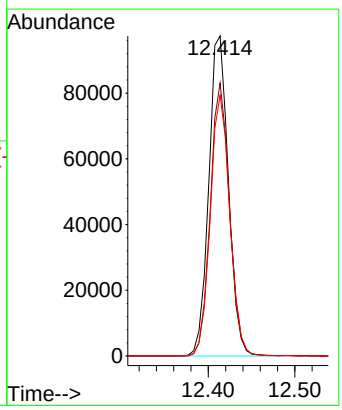


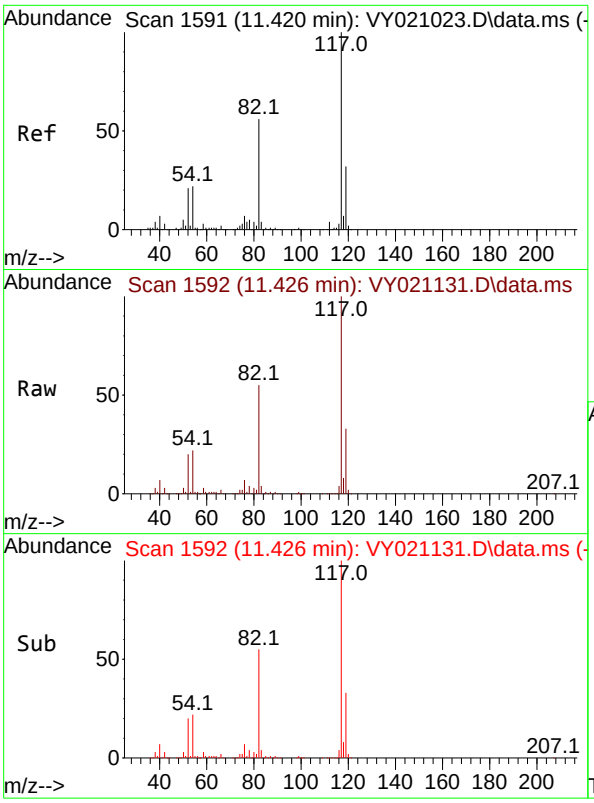




#62
4-Bromofluorobenzene
Concen: 47.630 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY021131.D
Acq: 07 Feb 2025 10:08

Tgt Ion: 95 Resp: 153343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 83.6 | 0.0 | 160.0 |
| 176 | 80.6 | 0.0 | 151.8 |



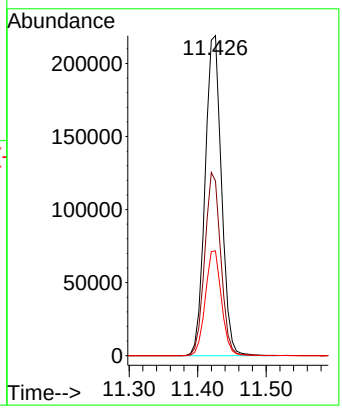


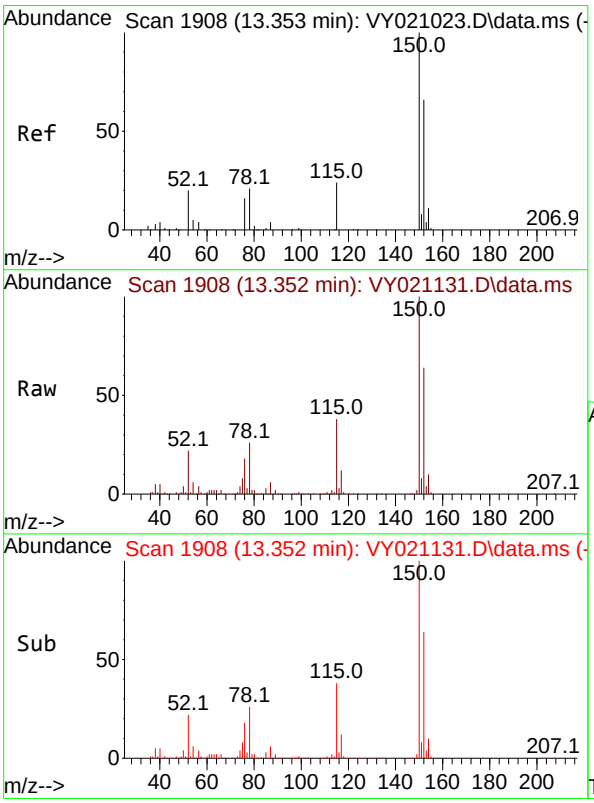

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021131.D
Acq: 07 Feb 2025 10:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Tgt Ion:117 Resp: 364645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.6 | 43.8 | 65.8 |
| 119 | 32.8 | 26.5 | 39.7 |

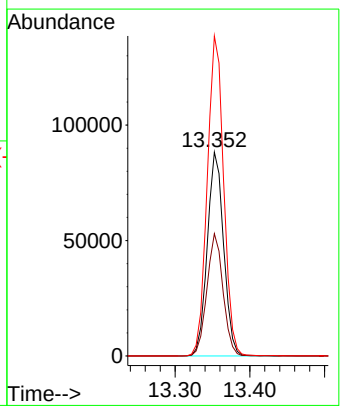



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VY021131.D
Acq: 07 Feb 2025 10:08

Tgt Ion:152 Resp: 133881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.2 | 30.0 | 90.0 |
| 150 | 157.7 | 0.0 | 344.6 |



Sample Results: **VY021131.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021131.D
Acq On : 07 Feb 2025 10:08
Operator : SY/MD
Sample : VY0207SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Title : SW846 8260

Signal : TIC: VY021131.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.890 | 835 | 848 | 862 | rBV | 18881 | 58619 | 4.46% | 0.872% |
| 2 | 7.640 | 958 | 971 | 977 | rBV | 178739 | 431361 | 32.82% | 6.417% |
| 3 | 7.713 | 977 | 983 | 999 | rVB | 285696 | 663111 | 50.45% | 9.865% |
| 4 | 8.067 | 1027 | 1041 | 1054 | rBV2 | 148467 | 351381 | 26.73% | 5.227% |
| 5 | 8.622 | 1121 | 1132 | 1142 | rBV | 485329 | 957760 | 72.87% | 14.248% |
| 6 | 10.115 | 1369 | 1377 | 1397 | rBV | 771574 | 1314392 | 100.00% | 19.553% |
| 7 | 10.518 | 1435 | 1443 | 1450 | rBV | 44739 | 82581 | 6.28% | 1.229% |
| 8 | 10.883 | 1495 | 1503 | 1515 | rBV2 | 12870 | 22719 | 1.73% | 0.338% |
| 9 | 11.255 | 1558 | 1564 | 1573 | rVB2 | 14169 | 23191 | 1.76% | 0.345% |
| 10 | 11.420 | 1583 | 1591 | 1604 | rBV | 689785 | 1150067 | 87.50% | 17.109% |
| 11 | 12.414 | 1747 | 1754 | 1765 | rBV2 | 520954 | 845783 | 64.35% | 12.582% |
| 12 | 13.352 | 1902 | 1908 | 1916 | rBV | 540637 | 821119 | 62.47% | 12.215% |

Sum of corrected areas: 6722084

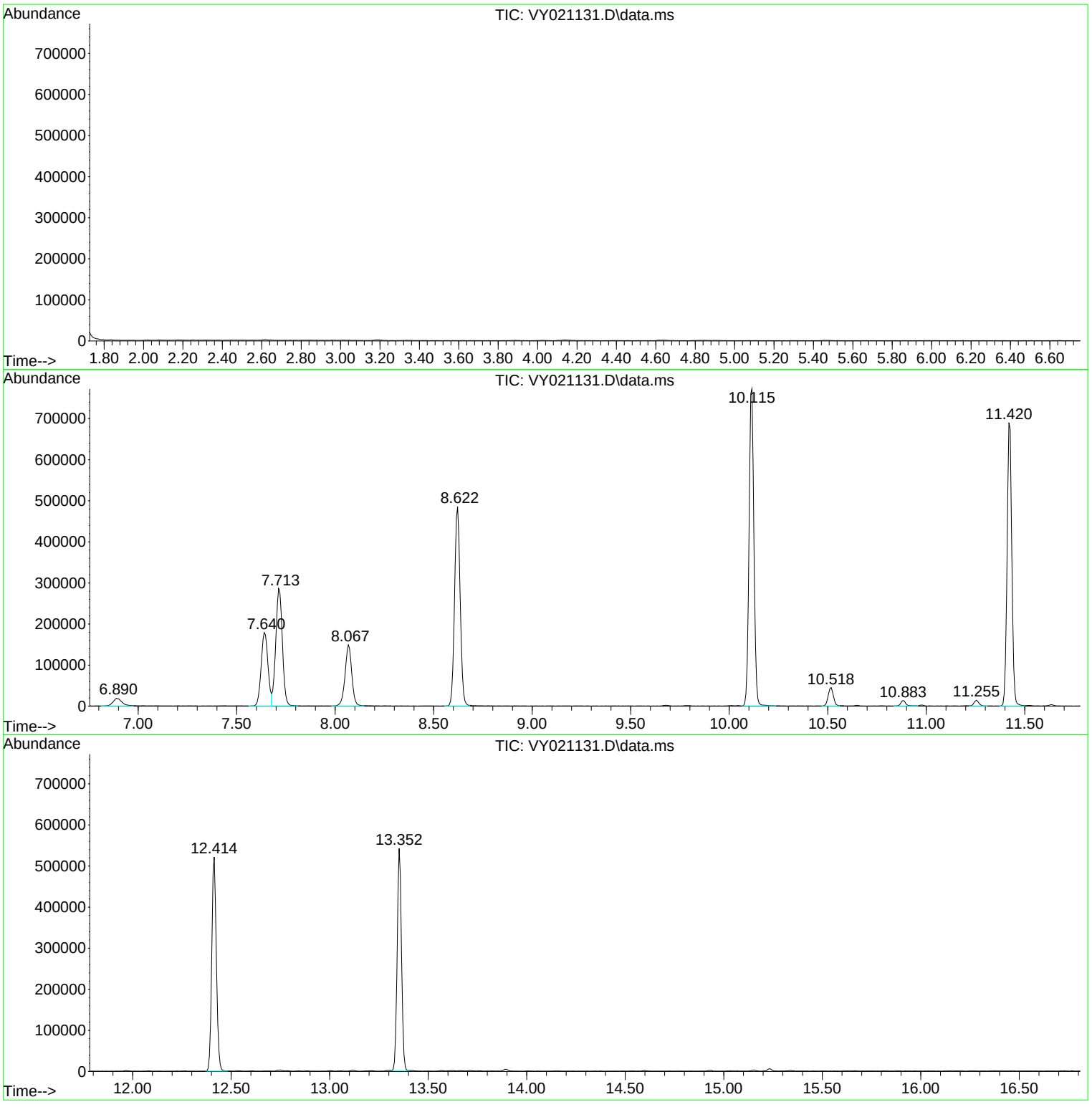
Sample Results: **VY021131.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021131.D
Acq On : 07 Feb 2025 10:08
Operator : SY/MD
Sample : VY0207SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VY021131.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021131.D
Acq On : 07 Feb 2025 10:08
Operator : SY/MD
Sample : VY0207SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021131.D
Acq On : 07 Feb 2025 10:08
Operator : SY/MD
Sample : VY0207SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Raw Data: **VY021132.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBS01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021132.D | 1 | | 02/07/25 11:13 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.4 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 18.1 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 17.8 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 18.0 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 18.6 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 18.5 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 18.5 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 18.3 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 100 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 15.7 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 20.0 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 20.3 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 19.5 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 18.4 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 19.4 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 17.9 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 100 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 18.1 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 19.1 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 19.8 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 19.6 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 19.2 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 17.5 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 18.5 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 19.2 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 18.4 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 19.1 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 19.3 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 18.8 | | 0.67 | 5.00 | ug/Kg |

Raw Data: **VY021132.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBS01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021132.D | 1 | | 02/07/25 11:13 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.3 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.0 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 19.6 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 100 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 19.2 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 19.3 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 18.3 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 19.1 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.0 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 38.2 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 19.3 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.6 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 20.4 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 18.5 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19.2 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 18.7 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 18.8 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 19.4 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 20.9 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.6 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.1 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 45.4 | | 70 (50) - 130 (163) | 91% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 43.2 | | 70 (54) - 130 (147) | 86% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 43.0 | | 70 (58) - 130 (134) | 86% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.4 | | 70 (29) - 130 (146) | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 186000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 293000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 249000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 124000 | 13.352 | | | |

Raw Data: **VY021132.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBS01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021132.D | 1 | | 02/07/25 11:13 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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\VY020725\
Data File : VY021132.D
Acq On : 07 Feb 2025 11:13
Operator : SY/MD
Sample : VY0207SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBS01

Quant Time: Feb 08 02:37:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 185601 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 293384 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 248895 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 123887 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 86302 | 45.383 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 90.760% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 81221 | 43.198 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 86.400% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 307683 | 42.984 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 85.960% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 103797 | 44.386 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 88.780% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 28855 | 17.443 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 29498 | 18.071 | ug/l | 97 |
| 4) Vinyl Chloride | 2.208 | 62 | 29262 | 17.810 | ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 18271 | 17.992 | ug/l | 95 |
| 6) Chloroethane | 2.739 | 64 | 18235 | 18.644 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 55344 | 18.489 | ug/l | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 18175 | 19.450 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 34826 | 18.538 | ug/l | 95 |
| 10) Methyl Iodide | 4.013 | 142 | 34071 | 16.324 | ug/l | 95 |
| 11) Tert butyl alcohol | 4.860 | 59 | 14119 | 109.564 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 32363 | 18.288 | ug/l | 91 |
| 13) Acrolein | 3.659 | 56 | 18582 | 93.642 | ug/l | 96 |
| 14) Allyl chloride | 4.391 | 41 | 56562 | 18.965 | ug/l | 95 |
| 15) Acrylonitrile | 5.067 | 53 | 40421 | 103.879 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 30986 | 104.486 | ug/l | 97 |
| 17) Carbon Disulfide | 4.110 | 76 | 87096 | 15.695 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 21178 | 20.343 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 89466 | 20.002 | ug/l | 98 |
| 20) Methylene Chloride | 4.622 | 84 | 35893 | 19.469 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 35825 | 18.391 | ug/l | 96 |
| 22) Diisopropyl ether | 6.018 | 45 | 125739 | 20.453 | ug/l | 94 |
| 23) Vinyl Acetate | 5.964 | 43 | 342973 | 100.079 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 69855 | 19.395 | ug/l | 100 |
| 25) 2-Butanone | 6.902 | 43 | 50527 | 103.683 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 63816 | 19.148 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 42796 | 19.087 | ug/l | 94 |
| 28) Bromochloromethane | 7.250 | 49 | 28243 | 19.830 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.268 | 42 | 34165 | 103.608 | ug/l | 95 |
| 30) Chloroform | 7.421 | 83 | 72352 | 19.557 | ug/l | 99 |
| 31) Cyclohexane | 7.707 | 56 | 58004 | 17.883 | ug/l # | 95 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 65960 | 19.177 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 49301 | 17.703 | ug/l | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 25115 | 20.557 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 59004 | 18.133 | ug/l | 95 |
| 39) Methylcyclohexane | 9.109 | 83 | 59616 | 17.501 | ug/l | 95 |
| 40) Benzene | 8.085 | 78 | 151388 | 18.524 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021132.D
Acq On : 07 Feb 2025 11:13
Operator : SY/MD
Sample : VY0207SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBS01

Quant Time: Feb 08 02:37:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 10762 | 15.226 ug/l # | 77 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 43576 | 19.221 ug/l | 97 |
| 43) Isopropyl Acetate | 8.201 | 43 | 47673 | 19.638 ug/l # | 85 |
| 44) Trichloroethene | 8.865 | 130 | 38891 | 18.419 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 37001 | 19.075 ug/l | 99 |
| 46) Dibromomethane | 9.237 | 93 | 19948 | 18.573 ug/l | 94 |
| 47) Bromodichloromethane | 9.426 | 83 | 55524 | 19.276 ug/l | 98 |
| 48) Methyl methacrylate | 9.225 | 41 | 21635 | 19.565 ug/l | 95 |
| 49) 1,4-Dioxane | 9.231 | 88 | 4603 | 460.376 ug/l | 96 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 123974 | 101.556 ug/l | 96 |
| 52) Toluene | 10.176 | 92 | 96246 | 18.755 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 49912 | 19.298 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 58181 | 18.998 ug/l | 92 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 27296 | 19.626 ug/l | 98 |
| 56) Ethyl methacrylate | 10.444 | 69 | 36177 | 19.444 ug/l | 92 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 47240 | 19.624 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 86112 | 97.284 ug/l | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 80844 | 102.856 ug/l | 96 |
| 60) Dibromochloromethane | 10.914 | 129 | 37596 | 19.249 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 25174 | 19.324 ug/l | 99 |
| 64) Tetrachloroethene | 10.652 | 164 | 33725 | 18.253 ug/l | 96 |
| 65) Chlorobenzene | 11.444 | 112 | 105975 | 19.122 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 37674 | 19.129 ug/l | 96 |
| 67) Ethyl Benzene | 11.524 | 91 | 186196 | 18.995 ug/l | 97 |
| 68) m/p-Xylenes | 11.633 | 106 | 140132 | 38.213 ug/l | 96 |
| 69) o-Xylene | 11.956 | 106 | 65995 | 19.303 ug/l | 98 |
| 70) Styrene | 11.975 | 104 | 111864 | 19.631 ug/l | 98 |
| 71) Bromoform | 12.133 | 173 | 22337 | 20.376 ug/l # | 100 |
| 73) Isopropylbenzene | 12.261 | 105 | 178698 | 18.466 ug/l | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 41674 | 19.697 ug/l | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 30969 | 19.242 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 22239m | 19.789 ug/l | |
| 77) Bromobenzene | 12.536 | 156 | 41376 | 18.528 ug/l | 95 |
| 78) n-propylbenzene | 12.597 | 91 | 217301 | 18.850 ug/l | 98 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 123446 | 18.697 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 147542 | 18.805 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 10041 | 18.231 ug/l | 95 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 128335 | 19.077 ug/l | 98 |
| 83) tert-Butylbenzene | 13.005 | 119 | 137035 | 19.215 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 147568 | 19.236 ug/l | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 193366 | 18.836 ug/l | 98 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 160120 | 18.777 ug/l | 98 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 80694 | 18.714 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 79923 | 18.825 ug/l | 97 |
| 89) n-Butylbenzene | 13.621 | 91 | 148310 | 19.064 ug/l | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 33034 | 18.569 ug/l | 87 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 72622 | 19.404 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 5018 | 20.864 ug/l | 92 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 40892 | 19.629 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 26899 | 19.485 ug/l | 98 |
| 95) Naphthalene | 15.151 | 128 | 67643 | 20.296 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 34771 | 20.056 ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021132.D
Acq On : 07 Feb 2025 11:13
Operator : SY/MD
Sample : VY0207SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBS01

Quant Time: Feb 08 02:37:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

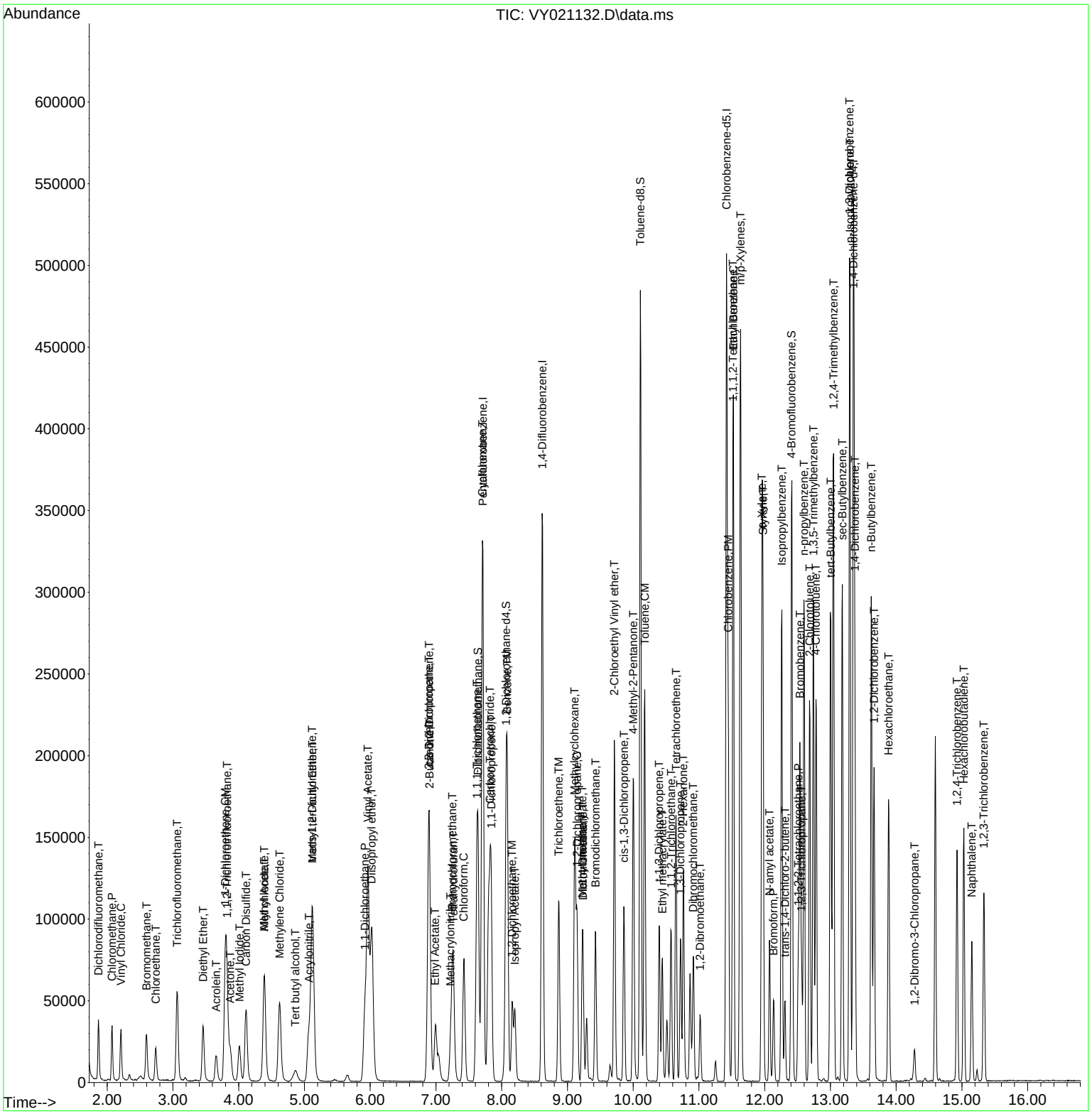
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021132.D
Acq On : 07 Feb 2025 11:13
Operator : SY/MD
Sample : VY0207SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBS01

Quant Time: Feb 08 02:37:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration



Raw Data: **VY021133.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBSD01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021133.D | 1 | | 02/07/25 11:36 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.6 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 20.2 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.3 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 20.6 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 21.6 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.4 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 22.2 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.0 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 17.9 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 23.9 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 24.2 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 22.9 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.4 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 22.8 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 21.1 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 130 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.5 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 22.7 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 23.6 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 23.2 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 22.3 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 21.0 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.9 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 22.9 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.3 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 22.7 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 23.2 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 120 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 22.3 | | 0.67 | 5.00 | ug/Kg |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBSD01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021133.D | 1 | | 02/07/25 11:36 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 22.6 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 22.9 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 23.7 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 120 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 22.7 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 23.3 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.4 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 22.3 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 22.2 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 44.7 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 22.8 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 23.2 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 24.0 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 22.2 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 23.2 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 22.7 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 22.8 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 22.9 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 25.0 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 23.4 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 24.0 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.6 | | 70 (50) - 130 (163) | 113% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.4 | | 70 (54) - 130 (147) | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.5 | | 70 (58) - 130 (134) | 109% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 56.2 | | 70 (29) - 130 (146) | 112% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 168000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 265000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 227000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 112000 | 13.347 | | | |

Raw Data: **VY021133.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Sciacca General Contractors, LLC | Date Collected: | |
| Project: | 305 Central Ave, West Caldwell | Date Received: | |
| Client Sample ID: | VY0207SBSD01 | SDG No.: | Q1290 |
| Lab Sample ID: | VY0207SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021133.D | 1 | | 02/07/25 11:36 | VY020725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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\VY020725\
Data File : VY021133.D
Acq On : 07 Feb 2025 11:36
Operator : SY/MD
Sample : VY0207SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBSD01

Quant Time: Feb 08 02:37:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 168157 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 264979 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 227375 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 111644 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 97547 | 56.618 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 113.240% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 92440 | 54.435 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 108.880% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 352498 | 54.524 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 109.040% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 118594 | 56.150 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 112.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 30884 | 20.606 | ug/l | 100 |
| 3) Chloromethane | 2.074 | 50 | 29889 | 20.210 | ug/l | 96 |
| 4) Vinyl Chloride | 2.208 | 62 | 30192 | 20.282 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 18980 | 20.629 | ug/l | 97 |
| 6) Chloroethane | 2.739 | 64 | 19127 | 21.585 | ug/l | 93 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 58127 | 21.434 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 19265 | 22.755 | ug/l | 93 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 37825 | 22.223 | ug/l | 96 |
| 10) Methyl Iodide | 4.007 | 142 | 38612 | 20.419 | ug/l | 94 |
| 11) Tert butyl alcohol | 4.866 | 59 | 15053 | 128.930 | ug/l # | 89 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 33707 | 21.023 | ug/l | 94 |
| 13) Acrolein | 3.659 | 56 | 20593 | 114.541 | ug/l | 99 |
| 14) Allyl chloride | 4.391 | 41 | 60551 | 22.408 | ug/l | 96 |
| 15) Acrylonitrile | 5.061 | 53 | 42714 | 121.159 | ug/l | 98 |
| 16) Acetone | 3.873 | 43 | 33163 | 123.428 | ug/l | 98 |
| 17) Carbon Disulfide | 4.110 | 76 | 89871 | 17.875 | ug/l | 98 |
| 18) Methyl Acetate | 4.385 | 43 | 22803 | 24.176 | ug/l | 95 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 97051 | 23.948 | ug/l | 97 |
| 20) Methylene Chloride | 4.622 | 84 | 38226 | 22.886 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 37738 | 21.383 | ug/l | 90 |
| 22) Diisopropyl ether | 6.025 | 45 | 133301 | 23.933 | ug/l | 98 |
| 23) Vinyl Acetate | 5.964 | 43 | 372364 | 119.926 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 74378 | 22.792 | ug/l | 96 |
| 25) 2-Butanone | 6.903 | 43 | 55514 | 125.734 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 66916 | 22.162 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 46143 | 22.714 | ug/l | 96 |
| 28) Bromochloromethane | 7.250 | 49 | 30481 | 23.622 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.268 | 42 | 37455 | 125.368 | ug/l | 95 |
| 30) Chloroform | 7.421 | 83 | 77645 | 23.165 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 61998 | 21.098 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 69623 | 22.341 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 53949 | 21.448 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 26542 | 24.054 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 63256 | 21.523 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 64474 | 20.956 | ug/l | 95 |
| 40) Benzene | 8.079 | 78 | 161958 | 21.941 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021133.D
Acq On : 07 Feb 2025 11:36
Operator : SY/MD
Sample : VY0207SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBSD01

Quant Time: Feb 08 02:37:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 14094 | 22.078 | ug/l | # | 94 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 46951 | 22.930 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 51749 | 23.602 | ug/l | # | 87 |
| 44) Trichloroethene | 8.866 | 130 | 40564 | 21.270 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 39719 | 22.671 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 22462 | 23.156 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.426 | 83 | 60268 | 23.166 | ug/l | | 94 |
| 48) Methyl methacrylate | 9.225 | 41 | 23439 | 23.469 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.231 | 88 | 4692 | 519.582 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 135632 | 123.016 | ug/l | | 98 |
| 52) Toluene | 10.176 | 92 | 103458 | 22.322 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 52828 | 22.615 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 63303 | 22.887 | ug/l | | 94 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 29784 | 23.711 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.445 | 69 | 40284 | 23.972 | ug/l | | 93 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 51321 | 23.604 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 87475 | 109.418 | ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 88700 | 124.948 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.914 | 129 | 40091 | 22.727 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 27368 | 23.260 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 36180 | 21.435 | ug/l | | 97 |
| 65) Chlorobenzene | 11.444 | 112 | 112712 | 22.262 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 40066 | 22.269 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.524 | 91 | 199131 | 22.237 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.633 | 106 | 149607 | 44.658 | ug/l | | 96 |
| 69) o-Xylene | 11.957 | 106 | 71094 | 22.762 | ug/l | | 97 |
| 70) Styrene | 11.975 | 104 | 120889 | 23.223 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 24015 | 23.980 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 193580 | 22.197 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 46724 | 24.506 | ug/l | | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 33683 | 23.223 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 22149m | 21.870 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 44844 | 22.283 | ug/l | | 95 |
| 78) n-propylbenzene | 12.597 | 91 | 232850 | 22.414 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 132212 | 22.220 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 159685 | 22.584 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 11629 | 23.430 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 139549 | 23.019 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 141391 | 22.000 | ug/l | | 95 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 158368 | 22.907 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 209149 | 22.607 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 175264 | 22.806 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 88081 | 22.667 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 87146 | 22.777 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 161016 | 22.967 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 35164 | 21.934 | ug/l | | 86 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 77257 | 22.906 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 5410 | 24.960 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 43900 | 23.384 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 29146 | 23.428 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 74286 | 24.733 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 37525 | 24.019 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021133.D
Acq On : 07 Feb 2025 11:36
Operator : SY/MD
Sample : VY0207SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBSD01

Quant Time: Feb 08 02:37:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

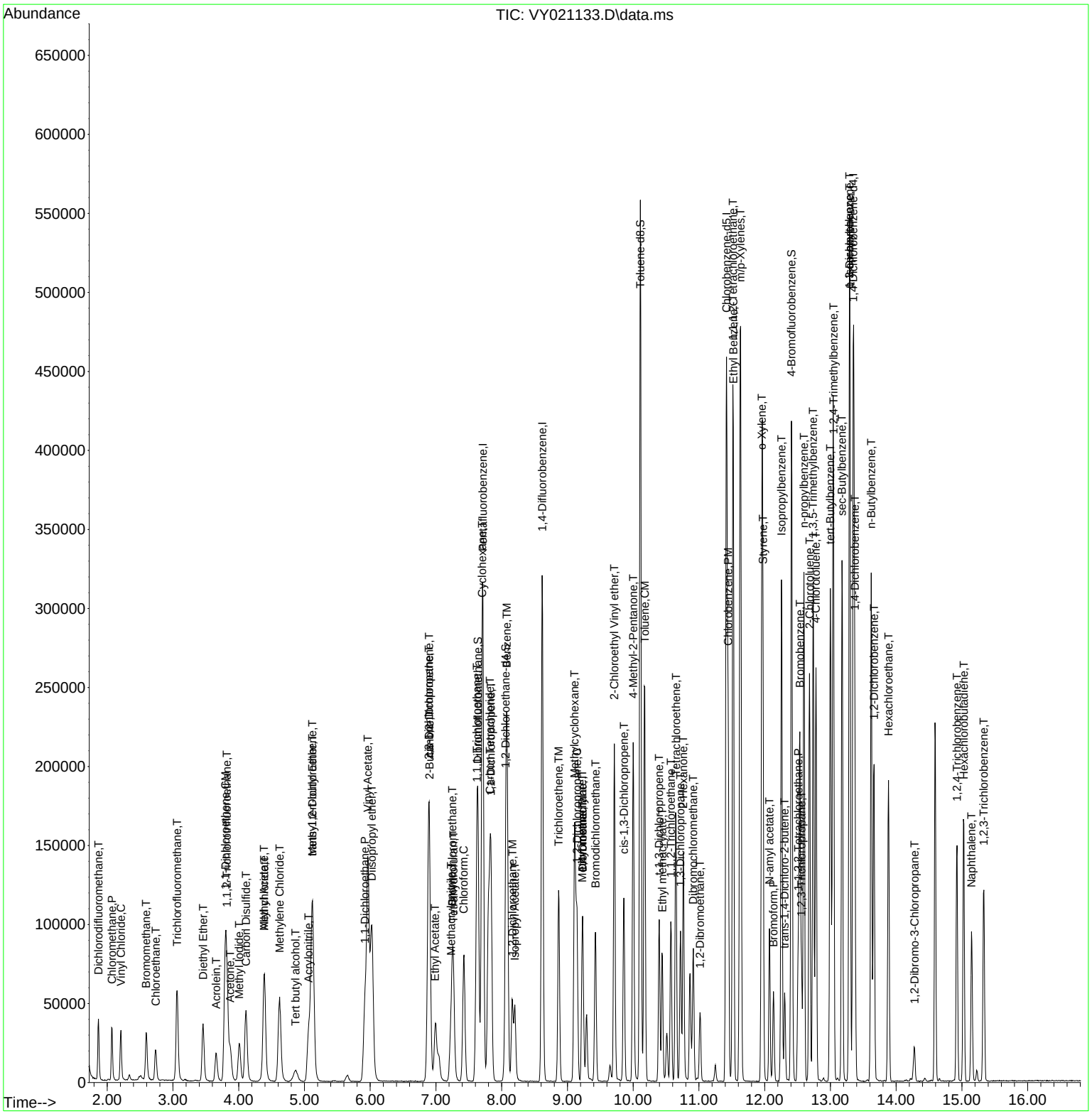
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020725\
Data File : VY021133.D
Acq On : 07 Feb 2025 11:36
Operator : SY/MD
Sample : VY0207SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0207SBSD01

Quant Time: Feb 08 02:37:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration



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

# Manual Integration Report

| Sequence: | VY020325 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY021020.D | 1,2,3-Trichloropropane | MMDadoda | 2/4/2025 3:47:43 PM | SAM | 2/4/2025 3:52:46 PM | Peak Integrated by Software |
| VSTDICC005 | VY021020.D | Methacrylonitrile | MMDadoda | 2/4/2025 3:47:43 PM | SAM | 2/4/2025 3:52:46 PM | Peak Integrated by Software |
| VSTDICC010 | VY021021.D | 1,2,3-Trichloropropane | MMDadoda | 2/4/2025 3:47:41 PM | SAM | 2/4/2025 3:52:44 PM | Peak Integrated by Software |
| VSTDICC010 | VY021021.D | Methacrylonitrile | MMDadoda | 2/4/2025 3:47:41 PM | SAM | 2/4/2025 3:52:44 PM | Peak Integrated by Software |
| VSTDICC010 | VY021021.D | Tert butyl alcohol | MMDadoda | 2/4/2025 3:47:41 PM | SAM | 2/4/2025 3:52:44 PM | Peak Integrated by Software |
| VSTDICC020 | VY021022.D | 1,2,3-Trichloropropane | MMDadoda | 2/4/2025 3:47:39 PM | SAM | 2/4/2025 3:52:43 PM | Peak Integrated by Software |
| VSTDICC020 | VY021022.D | Methacrylonitrile | MMDadoda | 2/4/2025 3:47:39 PM | SAM | 2/4/2025 3:52:43 PM | Peak Integrated by Software |
| VSTDICCC050 | VY021023.D | 1,2,3-Trichloropropane | MMDadoda | 2/4/2025 3:47:37 PM | SAM | 2/4/2025 3:52:39 PM | Peak Integrated by Software |
| VSTDICC100 | VY021024.D | 1,2,3-Trichloropropane | MMDadoda | 2/4/2025 3:47:36 PM | SAM | 2/4/2025 3:53:02 PM | Peak Integrated by Software |
| VSTDICC150 | VY021025.D | 1,2,3-Trichloropropane | MMDadoda | 2/4/2025 3:47:34 PM | SAM | 2/4/2025 3:53:04 PM | Peak Integrated by Software |
| VSTDICV050 | VY021027.D | 1,2,3-Trichloropropane | MMDadoda | 2/4/2025 3:47:32 PM | SAM | 2/4/2025 3:53:10 PM | Peak Integrated by Software |
| VSTDCCC050 | VY021044.D | 1,2,3-Trichloropropane | MMDadoda | 2/4/2025 3:47:27 PM | SAM | 2/4/2025 3:53:15 PM | Peak Integrated by Software |

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# Manual Integration Report

| | | | |
|---|---|---|---|
| Sequence: | VY020325 | Instrument | MSVOA_y |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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# Manual Integration Report

| Sequence: | VY020725 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY021130.D | 1,2,3-Trichloropropane | MMDadoda | 2/10/2025 10:22:26 AM | SAM | 2/10/2025 10:24:18 AM | Peak Integrated by Software |
| VY0207SBS01 | VY021132.D | 1,2,3-Trichloropropane | MMDadoda | 2/10/2025 10:22:27 AM | SAM | 2/10/2025 10:24:19 AM | Peak Integrated by Software |
| VY0207SBSD01 | VY021133.D | 1,2,3-Trichloropropane | MMDadoda | 2/10/2025 10:22:29 AM | SAM | 2/10/2025 10:24:22 AM | Peak Integrated by Software |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY020325

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 2/4/2025 3:47:24 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 2/4/2025 3:53:22 PM | | | | |
| SubDirectory | VY020325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y020325s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132839 |
| Initial Calibration Stds | VP132837,VP132841,VP132843,VP132845,VP132847,VP132849 |
| CCC | VP132853 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132851 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY021019.D | 03 Feb 2025 09:51 | SY/MD | Ok |
| 2 | VSTDICC005 | VY021020.D | 03 Feb 2025 10:35 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VY021021.D | 03 Feb 2025 10:57 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY021022.D | 03 Feb 2025 11:20 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VY021023.D | 03 Feb 2025 11:43 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VY021024.D | 03 Feb 2025 12:21 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VY021025.D | 03 Feb 2025 12:44 | SY/MD | Ok,M |
| 8 | VIBLK | VY021026.D | 03 Feb 2025 13:11 | SY/MD | Ok |
| 9 | VSTDICV050 | VY021027.D | 03 Feb 2025 13:37 | SY/MD | Ok,M |
| 10 | VY0203SBL01 | VY021028.D | 03 Feb 2025 14:13 | SY/MD | Ok |
| 11 | VY0203SBS01 | VY021029.D | 03 Feb 2025 14:55 | SY/MD | Ok,M |
| 12 | VY0203SBSD01 | VY021030.D | 03 Feb 2025 15:17 | SY/MD | Ok,M |
| 13 | Q1239-10 | VY021031.D | 03 Feb 2025 15:50 | SY/MD | Not Ok |
| 14 | Q1215-01 | VY021032.D | 03 Feb 2025 16:14 | SY/MD | Ok |
| 15 | Q1215-05 | VY021033.D | 03 Feb 2025 16:37 | SY/MD | Not Ok |
| 16 | Q1216-01 | VY021034.D | 03 Feb 2025 17:01 | SY/MD | ReRun |
| 17 | Q1216-05 | VY021035.D | 03 Feb 2025 17:24 | SY/MD | Ok |
| 18 | IBLK | VY021036.D | 03 Feb 2025 17:47 | SY/MD | Not Ok |
| 19 | IBLK | VY021037.D | 03 Feb 2025 18:11 | SY/MD | Not Ok |
| 20 | Q1216-17 | VY021038.D | 03 Feb 2025 18:34 | SY/MD | Ok |
| 21 | Q1206-01 | VY021039.D | 03 Feb 2025 18:58 | SY/MD | Ok |

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Fax : 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY020325

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 2/4/2025 3:47:24 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 2/4/2025 3:53:22 PM | | | | |
| SubDirectory | VY020325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y020325s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132839 |
| Initial Calibration Stds | VP132837,VP132841,VP132843,VP132845,VP132847,VP132849 |
| CCC | VP132853 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132851 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1206-05 | VY021040.D | 03 Feb 2025 19:21 | SY/MD | Ok |
| 23 | Q1207-01 | VY021041.D | 03 Feb 2025 19:44 | SY/MD | Ok |
| 24 | Q1207-05 | VY021042.D | 03 Feb 2025 20:08 | SY/MD | Ok |
| 25 | Q1207-09 | VY021043.D | 03 Feb 2025 20:31 | SY/MD | Ok |
| 26 | VSTDCCC050 | VY021044.D | 03 Feb 2025 20:54 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY020725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 2/10/2025 10:22:43 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 2/10/2025 10:24:34 AM | | |
| SubDirectory | VY020725 | HP Acquire Method | | HP Processing Method | 82y020325s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132944 |
| Initial Calibration Stds | |
| CCC | VP132946,VP132947,MDL-VP132951,VP132952 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY021129.D | 07 Feb 2025 09:01 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY021130.D | 07 Feb 2025 09:31 | SY/MD | Ok,M |
| 3 | VY0207SBL01 | VY021131.D | 07 Feb 2025 10:08 | SY/MD | Ok |
| 4 | VY0207SBS01 | VY021132.D | 07 Feb 2025 11:13 | SY/MD | Ok,M |
| 5 | VY0207SBSD01 | VY021133.D | 07 Feb 2025 11:36 | SY/MD | Ok,M |
| 6 | Q1168-03 2.5PPB | VY021134.D | 07 Feb 2025 12:44 | SY/MD | Not Ok |
| 7 | Q1168-03 | VY021135.D | 07 Feb 2025 13:07 | SY/MD | Not Ok |
| 8 | Q1168-03 4PPB | VY021136.D | 07 Feb 2025 13:30 | SY/MD | Not Ok |
| 9 | Q1288-05 | VY021137.D | 07 Feb 2025 14:15 | SY/MD | Not Ok |
| 10 | Q1290-02 | VY021138.D | 07 Feb 2025 14:39 | SY/MD | Ok |
| 11 | Q1304-01 | VY021139.D | 07 Feb 2025 15:02 | SY/MD | Ok |
| 12 | Q1309-23RE | VY021140.D | 07 Feb 2025 15:26 | SY/MD | Confirms |
| 13 | Q1309-15 | VY021141.D | 07 Feb 2025 15:49 | SY/MD | Ok |
| 14 | Q1309-11 | VY021142.D | 07 Feb 2025 16:13 | SY/MD | Ok |
| 15 | Q1287-09 | VY021143.D | 07 Feb 2025 16:36 | SY/MD | Ok |
| 16 | Q1287-07 | VY021144.D | 07 Feb 2025 16:59 | SY/MD | Not Ok |
| 17 | Q1287-03 | VY021145.D | 07 Feb 2025 17:23 | SY/MD | Not Ok |
| 18 | Q1287-01 | VY021146.D | 07 Feb 2025 17:46 | SY/MD | Ok |

M : Manual Integration

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

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY020325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 2/4/2025 3:47:24 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 2/4/2025 3:53:22 PM | | |
| SubDirectory | VY020325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y020325s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132839 |
| Initial Calibration Stds | VP132837,VP132841,VP132843,VP132845,VP132847,VP132849 |
| CCC | VP132853 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132851 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY021019.D | 03 Feb 2025 09:51 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY021020.D | 03 Feb 2025 10:35 | Good for DOD | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VY021021.D | 03 Feb 2025 10:57 | | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY021022.D | 03 Feb 2025 11:20 | | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VY021023.D | 03 Feb 2025 11:43 | | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VY021024.D | 03 Feb 2025 12:21 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VY021025.D | 03 Feb 2025 12:44 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY021026.D | 03 Feb 2025 13:11 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVY020325 | VY021027.D | 03 Feb 2025 13:37 | | SY/MD | Ok,M |
| 10 | VY0203SBL01 | VY0203SBL01 | VY021028.D | 03 Feb 2025 14:13 | | SY/MD | Ok |
| 11 | VY0203SBS01 | VY0203SBS01 | VY021029.D | 03 Feb 2025 14:55 | | SY/MD | Ok,M |
| 12 | VY0203SBSD01 | VY0203SBSD01 | VY021030.D | 03 Feb 2025 15:17 | | SY/MD | Ok,M |
| 13 | Q1239-10 | 357 | VY021031.D | 03 Feb 2025 15:50 | vial B Not purged | SY/MD | Not Ok |
| 14 | Q1215-01 | JPP-29.1-012825 | VY021032.D | 03 Feb 2025 16:14 | vial A ISTD Fail | SY/MD | Ok |
| 15 | Q1215-05 | JPP-29.2-012825 | VY021033.D | 03 Feb 2025 16:37 | Not purged vial-A | SY/MD | Not Ok |
| 16 | Q1216-01 | JPP-18.1-012825 | VY021034.D | 03 Feb 2025 17:01 | vial A Internal Standard Fail | SY/MD | ReRun |
| 17 | Q1216-05 | JPP-21.1-012825 | VY021035.D | 03 Feb 2025 17:24 | vial B ISTD Fail | SY/MD | Ok |
| 18 | IBLK | IBLK | VY021036.D | 03 Feb 2025 17:47 | Not purged | SY/MD | Not Ok |

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

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY020325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 2/4/2025 3:47:24 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 2/4/2025 3:53:22 PM | | |
| SubDirectory | VY020325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y020325s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132839 |
| Initial Calibration Stds | VP132837,VP132841,VP132843,VP132845,VP132847,VP132849 |
| CCC | VP132853 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132851 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | IBLK | IBLK | VY021037.D | 03 Feb 2025 18:11 | Not purged | SY/MD | Not Ok |
| 20 | Q1216-17 | JPP-26.2-012825 | VY021038.D | 03 Feb 2025 18:34 | vial B Internal Standard Fail | SY/MD | Ok |
| 21 | Q1206-01 | JPP-20.1-012725 | VY021039.D | 03 Feb 2025 18:58 | vial B | SY/MD | Ok |
| 22 | Q1206-05 | JPP-16.3-012725 | VY021040.D | 03 Feb 2025 19:21 | vial B | SY/MD | Ok |
| 23 | Q1207-01 | JPP-2.1-012725 | VY021041.D | 03 Feb 2025 19:44 | vial-B | SY/MD | Ok |
| 24 | Q1207-05 | JPP-5.1-012725 | VY021042.D | 03 Feb 2025 20:08 | vial-B | SY/MD | Ok |
| 25 | Q1207-09 | JPP-4.5-012725 | VY021043.D | 03 Feb 2025 20:31 | vial-B | SY/MD | Ok |
| 26 | VSTDCCC050 | VSTDCCC050EC | VY021044.D | 03 Feb 2025 20:54 | | SY/MD | Ok,M |

M : Manual Integration

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

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY020725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 2/10/2025 10:22:43 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 2/10/2025 10:24:34 AM | | |
| SubDirectory | VY020725 | HP Acquire Method | | HP Processing Method | 82y020325s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132944 |
| Initial Calibration Stds | |
| CCC | VP132946,VP132947,MDL-VP132951,VP132952 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY021129.D | 07 Feb 2025 09:01 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY021130.D | 07 Feb 2025 09:31 | | SY/MD | Ok,M |
| 3 | VY0207SBL01 | VY0207SBL01 | VY021131.D | 07 Feb 2025 10:08 | | SY/MD | Ok |
| 4 | VY0207SBS01 | VY0207SBS01 | VY021132.D | 07 Feb 2025 11:13 | | SY/MD | Ok,M |
| 5 | VY0207SBSD01 | VY0207SBSD01 | VY021133.D | 07 Feb 2025 11:36 | | SY/MD | Ok,M |
| 6 | Q1168-03 2.5PPB | MDL-SOIL-03-QT1-202 | VY021134.D | 07 Feb 2025 12:44 | END CCC missing | SY/MD | Not Ok |
| 7 | Q1168-03 | MDL | VY021135.D | 07 Feb 2025 13:07 | END CCC missing | SY/MD | Not Ok |
| 8 | Q1168-03 4PPB | MDL-SOIL-03-QT1-202 | VY021136.D | 07 Feb 2025 13:30 | END CCC missing | SY/MD | Not Ok |
| 9 | Q1288-05 | HR-04-020425 | VY021137.D | 07 Feb 2025 14:15 | vial-B Not Match for comp.#52 | SY/MD | Not Ok |
| 10 | Q1290-02 | VOC | VY021138.D | 07 Feb 2025 14:39 | Internal Standard Fail vial-B | SY/MD | Ok |
| 11 | Q1304-01 | RB21140 | VY021139.D | 07 Feb 2025 15:02 | Internal Standard Fail vial-B | SY/MD | Ok |
| 12 | Q1309-23RE | WC-8-VOC | VY021140.D | 07 Feb 2025 15:26 | Internal Standard Fail vial-B | SY/MD | Confirms |
| 13 | Q1309-15 | WC-5-VOC | VY021141.D | 07 Feb 2025 15:49 | vial-B | SY/MD | Ok |
| 14 | Q1309-11 | WC-4-VOC | VY021142.D | 07 Feb 2025 16:13 | vial-B | SY/MD | Ok |
| 15 | Q1287-09 | BAY-DRUMS-E | VY021143.D | 07 Feb 2025 16:36 | vial-B | SY/MD | Ok |
| 16 | Q1287-07 | BAY-DRUMS-D | VY021144.D | 07 Feb 2025 16:59 | NOT PURGE vial-B | SY/MD | Not Ok |
| 17 | Q1287-03 | BAY-DRUMS-B | VY021145.D | 07 Feb 2025 17:23 | NOT PURGE vial-B | SY/MD | Not Ok |
| 18 | Q1287-01 | BAY-DRUMS-A | VY021146.D | 07 Feb 2025 17:46 | Internal Standard Fail; vial-B | SY/MD | Ok |

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Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY020725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 2/10/2025 10:22:43 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 2/10/2025 10:24:34 AM | | |
| SubDirectory | VY020725 | HP Acquire Method | | HP Processing Method | 82y020325s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132944 |
| Initial Calibration Stds | |
| CCC | VP132946,VP132947,MDL-VP132951,VP132952 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 2/5/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:15
**In Date:** 02/04/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:22
**Out Date:** 02/05/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB134555

| 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 |
|---|---|---|---|---|---|---|---|---|
| Q1284-01 | SU-03-2-4-2025 | 1 | 1.15 | 8.51 | 9.66 | 8.65 | 88.1 | |
| Q1284-02 | SU-03-2-4-2025 | 2 | 1.15 | 8.77 | 9.92 | 9.28 | 92.7 | |
| Q1285-01 | 72-11977 | 19 | 1.15 | 8.73 | 9.88 | 7.57 | 73.5 | GEL MARTIX |
| Q1286-01 | NB-07-020425 | 3 | 1.16 | 8.63 | 9.79 | 9.21 | 93.3 | |
| Q1286-02 | NB-07-020425-VOC | 4 | 1.15 | 8.65 | 9.8 | 9.09 | 91.8 | |
| Q1286-03 | NB-07-020425-E2 | 5 | 1.16 | 8.50 | 9.66 | 8.96 | 91.8 | |
| Q1287-01 | BAY-DRUMS-A | 20 | 1.16 | 8.82 | 9.98 | 8.96 | 88.4 | |
| Q1287-03 | BAY-DRUMS-B | 21 | 1.13 | 8.64 | 9.77 | 8.61 | 86.6 | |
| Q1287-05 | BAY-DRUMS-C | 22 | 1.18 | 8.40 | 9.58 | 8.37 | 85.6 | |
| Q1287-07 | BAY-DRUMS-D | 23 | 1.12 | 8.47 | 9.59 | 8.49 | 87.0 | |
| Q1287-09 | BAY-DRUMS-E | 24 | 1.16 | 8.83 | 9.99 | 8.67 | 85.1 | |
| Q1288-01 | HR-01-020425 | 6 | 1.14 | 8.85 | 9.99 | 9.02 | 89.0 | |
| Q1288-02 | HR-01-020425 | 7 | 1.13 | 8.77 | 9.9 | 8.95 | 89.2 | |
| Q1288-03 | HR-01-020425-E2 | 8 | 1.19 | 8.57 | 9.76 | 9.02 | 91.4 | |
| Q1288-04 | HR-04-020425 | 9 | 1.15 | 8.37 | 9.52 | 8.8 | 91.4 | |
| Q1288-05 | HR-04-020425 | 10 | 1.18 | 8.62 | 9.8 | 9.25 | 93.6 | |
| Q1288-06 | HR-04-020425-E2 | 11 | 1.17 | 8.60 | 9.77 | 9.13 | 92.6 | |
| Q1289-01 | FL-OILY DEBRIS | 25 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oily-debris |
| Q1289-02 | FL-DRUMS-A | 26 | 1.18 | 8.48 | 9.66 | 8.53 | 86.7 | |
| Q1289-04 | FL-DRUMS-B | 27 | 1.15 | 8.81 | 9.96 | 9.41 | 93.8 | |
| Q1290-01 | WASTE | 12 | 1.14 | 8.68 | 9.82 | 8.74 | 87.6 | |
| Q1290-02 | VOC | 13 | 1.15 | 8.62 | 9.77 | 8.47 | 84.9 | |
| Q1290-03 | 1 | 14 | 1.16 | 8.52 | 9.68 | 8.35 | 84.4 | |
| Q1290-04 | 2 | 15 | 1.18 | 8.51 | 9.69 | 8.53 | 86.4 | |
| Q1290-05 | 3 | 16 | 1.19 | 8.53 | 9.72 | 8.6 | 86.9 | |
| Q1290-06 | 4 | 17 | 1.15 | 8.82 | 9.97 | 8.94 | 88.3 | |
| Q1290-07 | 5 | 18 | 1.13 | 8.73 | 9.86 | 8.69 | 86.6 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 2/5/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:15
**In Date:** 02/04/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:22
**Out Date:** 02/05/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB134555

| 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 |
|---|---|---|---|---|---|---|---|---|

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

VB 134555

**WorkList Name :** %1-020425 **WorkList ID :** 187436 **Department :** Wet-Chemistry **Date :** 02-04-2025 07:57:46

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1284-01 | SU-03-2-4-2025 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 02/04/2025 | Chemtech -SO |
| Q1284-02 | SU-03-2-4-2025 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 02/04/2025 | Chemtech -SO |
| Q1285-01 | 72-11977 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1286-01 | NB-07-020425 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | | 02/04/2025 | Chemtech -SO |
| Q1286-02 | NB-07-020425-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 02/04/2025 | Chemtech -SO |
| Q1286-03 | NB-07-020425-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | | 02/04/2025 | Chemtech -SO |
| Q1287-01 | BAY-DRUMS-A | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1287-03 | BAY-DRUMS-B | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1287-05 | BAY-DRUMS-C | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1287-07 | BAY-DRUMS-D | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1287-09 | BAY-DRUMS-E | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1288-01 | HR-01-020425 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | | 02/04/2025 | Chemtech -SO |
| Q1288-02 | HR-01-020425 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 02/04/2025 | Chemtech -SO |
| Q1288-03 | HR-01-020425-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | | 02/04/2025 | Chemtech -SO |
| Q1288-04 | HR-04-020425 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | | 02/04/2025 | Chemtech -SO |
| Q1288-05 | HR-04-020425 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 02/04/2025 | Chemtech -SO |
| Q1288-06 | HR-04-020425-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | | 02/04/2025 | Chemtech -SO |
| Q1289-01 | FL-OILY DEBRIS | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1289-02 | FL-DRUMS-A | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1289-04 | FL-DRUMS-B | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 02/04/2025 | Chemtech -SO |
| Q1290-01 | WASTE | Solid | Percent Solids | Cool 4 deg C | SCIA01 | D11 | 02/04/2025 | Chemtech -SO |

**Date/Time** 02/04/25 15:45

**Raw Sample Received by:** JB (WC)

**Raw Sample Relinquished by:** SM

**Date/Time** 02/04/25 17:20

**Raw Sample Received by:** SM

**Raw Sample Relinquished by:** JB (WC)

# WORKLIST(Hardcopy Internal Chain)

VB 134555

**WorkList Name :** %1-020425 **WorkList ID :** 187436 **Department :** Wet-Chemistry **Date :** 02-04-2025 07:57:46

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1290-02 | VOC | Solid | Percent Solids | Cool 4 deg C | SCIA01 | D11 | 02/04/2025 | Chemtech -SO |
| Q1290-03 | 1 | Solid | Percent Solids | Cool 4 deg C | SCIA01 | D11 | 02/04/2025 | Chemtech -SO |
| Q1290-04 | 2 | Solid | Percent Solids | Cool 4 deg C | SCIA01 | D11 | 02/04/2025 | Chemtech -SO |
| Q1290-05 | 3 | Solid | Percent Solids | Cool 4 deg C | SCIA01 | D11 | 02/04/2025 | Chemtech -SO |
| Q1290-06 | 4 | Solid | Percent Solids | Cool 4 deg C | SCIA01 | D11 | 02/04/2025 | Chemtech -SO |
| Q1290-07 | 5 | Solid | Percent Solids | Cool 4 deg C | SCIA01 | D11 | 02/04/2025 | Chemtech -SO |

**Date/Time** 02/04/25 1545
**Raw Sample Received by:** JB (WC)
**Raw Sample Relinquished by:** SR



**Date/Time** 02/04/25 17:20
**Raw Sample Received by:** SR
**Raw Sample Relinquished by:** JB (WC)


# SHIPPING DOCUMENTS

305 Centeral AVE

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number: West Caldwell Q1290
COC Number:

### CLIENT INFORMATION
Report to be sent to:
COMPANY:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION:
PHONE: FAX:

### PROJECT INFORMATION
PROJECT NAME:
PROJECT #: LOCATION:
PROJECT MANAGER:
E-MAIL:
PHONE: FAX:

### BILLING INFORMATION
BILL TO: PO#
ADDRESS: Same
CITY: STATE: ZIP:
ATTENTION:
PHONE:

### DATA TURNAROUND INFORMATION
FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ 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
1 TPH 1,2,6
2 VOC
3 TPH 1,2
4 5 6 7 8 9

| 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. | WASTE | | | X | 2/4 | 7:[illegible] | 1 | X | | | | | | | | | |
| 2. | VOC | | | X | | 7:[illegible] | 1 | | X | | | | | | | | |
| 3. | 1 | | | X | | 8:45 | 1 | | | X | | | | | | | |
| 4. | 2 | | | X | | 9:15 | 1 | | | X | | | | | | | |
| 5. | 3 | | | X | | 9:30 | 1 | | | X | | | | | | | |
| 6. | 4 | | | X | | 10:[illegible] | 1 | | | X | | | | | | | |
| 7. | 5 | | | X | | 10:15 | 1 | | | X | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

Specify Preservatives: A-HCl, B-HNO3, C-H2SO4, D-NaOH, E-ICE, F-OTHER

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY |
|---|---|---|
| 1. | 2-4-25 1417 | 1. 2-4-25 1417 |
| RELINQUISHED BY | DATE/TIME | RECEIVED BY |
| 2. | | 2. |
| RELINQUISHED BY | DATE/TIME 2-4-25 1500 | RECEIVED FOR LAB BY |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON-COMPLIANT ☐ COOLER TEMP 3.6°C
Comments:

Page _____ of _____

CLIENT: ☐ Hand Delivered ☐ Other:
CHEMTECH: ☐ Picked Up

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

10/2018

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 :** Q1290 SCIA01
**Client Name :** Sciacca General Contractor
**Client Contact :** Rosanne Scirica
**Invoice Name :** Sciacca General Contractor
**Invoice Contact :** Rosanne Scirica

**Order Date :** 2/4/2025 2:25:00 PM
**Project Name :** 305 Central Ave, West Cald
**Receive DateTime :** 2/4/2025 ~~12:00:00 AM~~ 3:30 PM.
**Purchase Order :**

**Project Mgr :**
**Report Type :** Results Only
**EDD Type :** EXCEL NJCLEANUP
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q1290-02 | VOC | Solid | 02/04/2025 | 08:15 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 2-4-25 1520

**Received By :** Sam
**Date / Time :** 02/04/25 15:20
**Storage Area :** VOA Refridgerator Room