

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081925\  
 Data File : VY023160.D  
 Acq On : 19 Aug 2025 19:08  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/20/2025  
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 20 01:34:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 453917     | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 726912     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 647238     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 333557     | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 213375     | 49.322   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 98.640%  |       |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 217058     | 49.903   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.800%  |       |          |
| 50) Toluene-d8               | 10.103         | 98   | 864097     | 50.853   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 101.700% |       |          |
| 62) 4-Bromofluorobenzene     | 12.401         | 95   | 274917     | 50.308   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 100.620% |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 145094     | 39.160   | ug/l  | 98       |
| 3) Chloromethane             | 2.068          | 50   | 276875     | 46.137   | ug/l  | 97       |
| 4) Vinyl Chloride            | 2.202          | 62   | 354948     | 47.848   | ug/l  | 100      |
| 5) Bromomethane              | 2.592          | 94   | 278901     | 50.342   | ug/l  | 100      |
| 6) Chloroethane              | 2.732          | 64   | 250831     | 50.860   | ug/l  | 100      |
| 7) Trichlorofluoromethane    | 3.049          | 101  | 405455     | 44.950   | ug/l  | 99       |
| 8) Diethyl Ether             | 3.452          | 74   | 111202     | 46.597   | ug/l  | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.812          | 101  | 200633     | 45.085   | ug/l  | 99       |
| 10) Methyl Iodide            | 4.001          | 142  | 263764     | 54.928   | ug/l  | 98       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 62641      | 211.323  | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 3.787          | 96   | 206109     | 47.120   | ug/l  | 97       |
| 13) Acrolein                 | 3.647          | 56   | 48005      | 110.581  | ug/l  | 97       |
| 14) Allyl chloride           | 4.378          | 41   | 288345     | 44.800   | ug/l  | 97       |
| 15) Acrylonitrile            | 5.049          | 53   | 228651     | 235.673  | ug/l  | 98       |
| 16) Acetone                  | 3.866          | 43   | 175331     | 187.073  | ug/l  | 97       |
| 17) Carbon Disulfide         | 4.104          | 76   | 657020     | 46.066   | ug/l  | 100      |
| 18) Methyl Acetate           | 4.385          | 43   | 140261     | 50.290   | ug/l  | 97       |
| 19) Methyl tert-butyl Ether  | 5.116          | 73   | 538168     | 47.480   | ug/l  | 99       |
| 20) Methylene Chloride       | 4.610          | 84   | 244646     | 50.247   | ug/l  | 97       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 246365     | 50.119   | ug/l  | 99       |
| 22) Diisopropyl ether        | 6.018          | 45   | 670200     | 47.919   | ug/l  | 99       |
| 23) Vinyl Acetate            | 5.957          | 43   | 1726827    | 223.289  | ug/l  | 98       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 423462     | 49.522   | ug/l  | 99       |
| 25) 2-Butanone               | 6.896          | 43   | 268264     | 210.456  | ug/l  | 97       |
| 26) 2,2-Dichloropropane      | 6.884          | 77   | 330025     | 44.729   | ug/l  | 98       |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 286353     | 50.390   | ug/l  | 97       |
| 28) Bromochloromethane       | 7.244          | 49   | 168646     | 49.712   | ug/l  | 96       |
| 29) Tetrahydrofuran          | 7.256          | 42   | 176959     | 223.965  | ug/l  | 96       |
| 30) Chloroform               | 7.421          | 83   | 447102     | 50.699   | ug/l  | 98       |
| 31) Cyclohexane              | 7.701          | 56   | 338813     | 42.047   | ug/l  | 99       |
| 32) 1,1,1-Trichloroethane    | 7.616          | 97   | 386894     | 49.443   | ug/l  | 100      |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 308640     | 47.746   | ug/l  | 99       |
| 37) Ethyl Acetate            | 6.982          | 43   | 120682     | 44.444   | ug/l  | 99       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 341297     | 48.612   | ug/l  | 99       |
| 39) Methylcyclohexane        | 9.109          | 83   | 387997     | 45.580   | ug/l  | 95       |
| 40) Benzene                  | 8.079          | 78   | 999546     | 50.170   | ug/l  | 99       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.219  | 41   | 65626    | 41.877  | ug/l   | 87       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 253049   | 48.835  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.195  | 43   | 245293   | 44.694  | ug/l   | 97       |
| 44) Trichloroethene           | 8.865  | 130  | 266609   | 51.782  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 228425   | 49.829  | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 131481   | 49.971  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.420  | 83   | 343279   | 50.703  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 118237   | 45.021  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 29199    | 946.444 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 9.993  | 43   | 656710   | 231.971 | ug/l   | 98       |
| 52) Toluene                   | 10.170 | 92   | 647611   | 51.179  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 296104   | 48.297  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 353426   | 48.751  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 176672   | 50.180  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 217938   | 48.375  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 292293   | 48.952  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.707  | 63   | 551100   | 259.330 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.755 | 43   | 435049   | 225.681 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.908 | 129  | 238623   | 51.365  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 164095   | 49.588  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 323963   | 56.055  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.438 | 112  | 704107   | 50.434  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131  | 243596   | 51.411  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.517 | 91   | 1222605  | 50.888  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.627 | 106  | 966978   | 103.051 | ug/l   | 98       |
| 69) o-Xylene                  | 11.950 | 106  | 455236   | 51.799  | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 763639   | 53.132  | ug/l   | 98       |
| 71) Bromoform                 | 12.127 | 173  | 135638   | 48.980  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.249 | 105  | 1161331  | 49.330  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.066 | 43   | 217737   | 43.613  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 172951   | 43.025  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 155632m  | 48.345  | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 273466   | 48.690  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.590 | 91   | 1387452  | 49.502  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 784149   | 48.829  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.731 | 105  | 954748   | 50.180  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 57362    | 43.134  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 816232   | 48.995  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 12.993 | 119  | 857857   | 49.921  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 956661   | 50.510  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.170 | 105  | 1249164  | 49.485  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.285 | 119  | 1065308  | 50.842  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 549837   | 49.644  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 534086   | 48.611  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 957330   | 49.746  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 214503   | 50.008  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 477680   | 49.177  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 28063    | 44.839  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 14.913 | 180  | 261664   | 45.553  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.017 | 225  | 153359   | 45.434  | ug/l   | 98       |
| 95) Naphthalene               | 15.139 | 128  | 452211   | 46.168  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 224276   | 45.311  | ug/l   | 99       |

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

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