

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071723\  
 Data File : VD076745.D  
 Acq On : 17 Jul 2023 10:19  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/18/2023  
 Supervised By : Mahesh Dadoda 07/18/2023

Quant Time: Jul 18 01:21:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 218354     | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 378281     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 349288     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 160211     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.222          | 65   | 94061      | 43.249  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 86.500% |        |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 112034     | 47.130  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 94.260% |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 388749     | 45.714  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 91.420% |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 126950     | 46.146  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 92.300% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 81408      | 47.677  | ug/l   | 97       |
| 3) Chloromethane             | 2.146          | 50   | 125286     | 42.535  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.281          | 62   | 183785     | 46.807  | ug/l   | 98       |
| 5) Bromomethane              | 2.687          | 94   | 143619     | 44.456  | ug/l   | 99       |
| 6) Chloroethane              | 2.834          | 64   | 137431     | 46.359  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.169          | 101  | 169565     | 48.534  | ug/l   | 90       |
| 8) Diethyl Ether             | 3.587          | 74   | 58875      | 48.944  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.963          | 101  | 113010     | 49.208  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.157          | 142  | 128185     | 49.514  | ug/l   | 92       |
| 11) Tert butyl alcohol       | 5.051          | 59   | 37901      | 233.536 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.934          | 96   | 104093     | 48.243  | ug/l   | 94       |
| 13) Acrolein                 | 3.793          | 56   | 24383      | 220.469 | ug/l   | 98       |
| 14) Allyl chloride           | 4.551          | 41   | 132728     | 46.827  | ug/l   | 92       |
| 15) Acrylonitrile            | 5.246          | 53   | 133288     | 225.606 | ug/l   | 99       |
| 16) Acetone                  | 4.016          | 43   | 137463     | 264.654 | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.263          | 76   | 243607     | 48.339  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.557          | 43   | 85921      | 44.029  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.310          | 73   | 274234     | 47.394  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.793          | 84   | 134482     | 41.791  | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.304          | 96   | 116314     | 46.376  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.210          | 45   | 327116     | 48.736  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.151          | 43   | 788965m    | 237.571 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.104          | 63   | 220922     | 48.818  | ug/l   | 96       |
| 25) 2-Butanone               | 7.081          | 43   | 175747     | 252.820 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.069          | 77   | 201477     | 51.647  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 153611     | 49.683  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.416          | 49   | 49140      | 43.433  | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.440          | 42   | 98581      | 240.021 | ug/l   | 93       |
| 30) Chloroform               | 7.592          | 83   | 252234     | 50.889  | ug/l   | 96       |
| 31) Cyclohexane              | 7.875          | 56   | 159414     | 49.805  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.787          | 97   | 211107     | 52.789  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.004          | 75   | 171849     | 55.323  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.163          | 43   | 67541      | 48.620  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.992          | 117  | 175861     | 59.126  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.275          | 83   | 201284     | 56.120  | ug/l   | 98       |
| 40) Benzene                  | 8.245          | 78   | 525017     | 53.567  | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jul 18 01:21:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/18/2023  
 Supervised By : Mahesh Dadoda 07/18/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.387  | 41   | 43716m   | 51.533  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 133588   | 52.457  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.357  | 43   | 138331   | 51.024  | ug/l   | 93       |
| 44) Trichloroethene           | 9.028  | 130  | 147359   | 55.174  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 134799   | 53.280  | ug/l   | 100      |
| 46) Dibromomethane            | 9.392  | 93   | 79423    | 53.631  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.581  | 83   | 198737   | 53.477  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.381  | 41   | 60268    | 48.843  | ug/l   | 87       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 18804    | 991.059 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 364741   | 252.684 | ug/l   | 94       |
| 52) Toluene                   | 10.334 | 92   | 347087   | 53.919  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 184753   | 53.561  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 217439   | 53.486  | ug/l # | 91       |
| 55) 1,1,2-Trichloroethane     | 10.733 | 97   | 113714   | 52.584  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 130678   | 52.356  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 182643   | 51.862  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 227154   | 235.116 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.922 | 43   | 274778   | 266.781 | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.075 | 129  | 134997   | 53.737  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 104335   | 52.040  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.810 | 164  | 113752   | 57.113  | ug/l   | 90       |
| 65) Chlorobenzene             | 11.604 | 112  | 378462   | 53.874  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 142900   | 54.638  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.681 | 91   | 672164   | 54.483  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.792 | 106  | 525979   | 111.009 | ug/l   | 92       |
| 69) o-Xylene                  | 12.122 | 106  | 249925   | 54.546  | ug/l   | 91       |
| 70) Styrene                   | 12.133 | 104  | 436478   | 54.418  | ug/l   | 97       |
| 71) Bromoform                 | 12.298 | 173  | 80105    | 55.923  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.422 | 105  | 659237   | 56.715  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.233 | 43   | 131194   | 53.576  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 130373   | 52.239  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 69506m   | 45.620  | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 149349   | 55.665  | ug/l   | 89       |
| 78) n-propylbenzene           | 12.763 | 91   | 808722   | 57.391  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 434440   | 56.227  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 542377   | 57.707  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 39790    | 55.582  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 460263   | 57.022  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 481435   | 58.176  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 544496   | 56.691  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 725510   | 57.382  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 602270   | 57.678  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 310312   | 56.231  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 301895   | 55.837  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.786 | 91   | 572839   | 56.063  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.051 | 117  | 113757   | 58.927  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.833 | 146  | 267899   | 55.092  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 17707    | 49.761  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 168304   | 56.692  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 80204    | 56.174  | ug/l   | 99       |
| 95) Naphthalene               | 15.333 | 128  | 349991   | 54.448  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.521 | 180  | 149618   | 56.161  | ug/l   | 98       |

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023

Quant Time: Jul 18 01:21:51 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 17 08:07:52 2023  
Response via : Initial Calibration

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

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

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