

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071823\  
 Data File : VD076766.D  
 Acq On : 18 Jul 2023 09:13  
 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 07/19/2023  
 Supervised By : Mahesh Dadoda 07/19/2023

Quant Time: Jul 19 06:39:18 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  | 206994     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 357390     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 317730     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 151547     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 86314      | 41.865  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 83.720% |        |          |
| 35) Dibromofluoromethane     | 7.799          | 113  | 101723     | 45.293  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 90.580% |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 362809     | 45.157  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 90.320% |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 117661     | 45.270  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 90.540% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 78298      | 48.372  | ug/l   | 97       |
| 3) Chloromethane             | 2.146          | 50   | 117704     | 42.154  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.275          | 62   | 172622     | 46.377  | ug/l   | 99       |
| 5) Bromomethane              | 2.681          | 94   | 129352     | 42.238  | ug/l   | 98       |
| 6) Chloroethane              | 2.828          | 64   | 123956     | 44.108  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.163          | 101  | 162660     | 49.112  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.593          | 74   | 49669      | 43.557  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.963          | 101  | 109164     | 50.142  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.158          | 142  | 113705     | 46.332  | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.058          | 59   | 33429      | 217.285 | ug/l   | 95       |
| 12) 1,1-Dichloroethene       | 3.934          | 96   | 95079      | 46.484  | ug/l   | 87       |
| 13) Acrolein                 | 3.793          | 56   | 22776      | 217.241 | ug/l   | 94       |
| 14) Allyl chloride           | 4.558          | 41   | 117358     | 43.677  | ug/l   | 93       |
| 15) Acrylonitrile            | 5.252          | 53   | 115829     | 206.814 | ug/l   | 97       |
| 16) Acetone                  | 4.022          | 43   | 124515     | 252.882 | ug/l # | 85       |
| 17) Carbon Disulfide         | 4.263          | 76   | 214753     | 44.952  | ug/l   | 96       |
| 18) Methyl Acetate           | 4.558          | 43   | 79950      | 43.217  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 235770     | 42.983  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.799          | 84   | 129924     | 42.838  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.299          | 96   | 105624     | 44.425  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.210          | 45   | 275982     | 43.375  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.152          | 43   | 657248     | 208.770 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.110          | 63   | 193763     | 45.166  | ug/l   | 96       |
| 25) 2-Butanone               | 7.081          | 43   | 153029     | 232.220 | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 7.069          | 77   | 175551     | 47.471  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 133115     | 45.416  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.428          | 49   | 44424      | 41.419  | ug/l   | 88       |
| 29) Tetrahydrofuran          | 7.446          | 42   | 82403      | 211.642 | ug/l   | 92       |
| 30) Chloroform               | 7.593          | 83   | 216645     | 46.107  | ug/l   | 97       |
| 31) Cyclohexane              | 7.875          | 56   | 141776     | 46.726  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 186326     | 49.149  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.004          | 75   | 147530     | 50.270  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.169          | 43   | 58584      | 44.637  | ug/l # | 74       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 148479     | 52.838  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.269          | 83   | 173962     | 51.337  | ug/l   | 93       |
| 40) Benzene                  | 8.251          | 78   | 440177     | 47.536  | ug/l   | 96       |

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

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Reviewed By : John Carlone 07/19/2023  
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Quant Time: Jul 19 06:39:18 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) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 35111    | 43.809  | ug/l # | 90       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 114911   | 47.761  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 114825   | 44.830  | ug/l   | 93       |
| 44) Trichloroethene           | 9.022  | 130  | 120854   | 47.895  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 113629   | 47.538  | ug/l   | 97       |
| 46) Dibromomethane            | 9.393  | 93   | 65194    | 46.596  | ug/l   | 90       |
| 47) Bromodichloromethane      | 9.587  | 83   | 163562   | 46.585  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.381  | 41   | 51113    | 43.845  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.393  | 88   | 16250    | 906.515 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 314543   | 230.646 | ug/l   | 91       |
| 52) Toluene                   | 10.334 | 92   | 287911   | 47.341  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 151771   | 46.571  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 175663   | 45.736  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 94451    | 46.230  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 106701   | 45.248  | ug/l # | 90       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 151776   | 45.616  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 183978   | 201.558 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.922 | 43   | 229648   | 235.998 | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.075 | 129  | 117059   | 49.320  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 85487    | 45.131  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.810 | 164  | 96706    | 53.377  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.604 | 112  | 314409   | 49.202  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 117679   | 49.463  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.681 | 91   | 567577   | 50.575  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.792 | 106  | 440686   | 102.245 | ug/l   | 93       |
| 69) o-Xylene                  | 12.122 | 106  | 210041   | 50.394  | ug/l   | 94       |
| 70) Styrene                   | 12.134 | 104  | 366407   | 50.219  | ug/l   | 98       |
| 71) Bromoform                 | 12.298 | 173  | 66142    | 50.761  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.422 | 105  | 562077   | 51.121  | ug/l   | 95       |
| 74) N-amyl acetate            | 12.234 | 43   | 106604   | 46.023  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 112823   | 47.792  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 72397m   | 50.234  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 123742   | 48.757  | ug/l   | 90       |
| 78) n-propylbenzene           | 12.763 | 91   | 694977   | 52.138  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 369231   | 50.520  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 456191   | 51.312  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 32212    | 47.568  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 383404   | 50.215  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 413203   | 52.785  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 455738   | 50.163  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 640965   | 53.593  | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 521228   | 52.771  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 261515   | 50.098  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 250890   | 49.056  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.786 | 91   | 504562   | 52.204  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.051 | 117  | 100782   | 55.191  | ug/l   | 83       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 222753   | 48.427  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 14543    | 43.206  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 135551   | 48.270  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 70538    | 52.229  | ug/l   | 97       |
| 95) Naphthalene               | 15.333 | 128  | 283742   | 46.665  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 121217   | 48.102  | ug/l   | 98       |

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ALS Vial : 2 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/19/2023  
Supervised By :Mahesh Dadoda 07/19/2023

Quant Time: Jul 19 06:39:18 2023  
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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) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

