

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD101121\  
 Data File : VD070652.D  
 Acq On : 11 Oct 2021 11:26  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/15/2021 1:18:13 AM

Quant Time: Oct 12 05:37:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100521S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 06 09:10:31 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|--------|--------|----------|
| -----                        |                |      |            |        |        |          |
| Internal Standards           |                |      |            |        |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 368639     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 620614     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 570422     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 265202     | 50.00  | ug/l   | 0.00     |
|                              |                |      |            |        |        |          |
| System Monitoring Compounds  |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 177752     | 40.97  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 81.94% |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 194715     | 47.19  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 94.38% |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 768966     | 48.75  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 97.50% |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 250858     | 47.58  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 95.16% |        |          |
|                              |                |      |            |        |        |          |
| Target Compounds             |                |      |            |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 212666     | 47.30  | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 245662     | 44.01  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 297116     | 48.03  | ug/l   | 97       |
| 5) Bromomethane              | 2.762          | 94   | 186769     | 49.70  | ug/l   | 100      |
| 6) Chloroethane              | 2.921          | 64   | 168765     | 42.73  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 385384     | 48.07  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.709          | 74   | 99737      | 47.81  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 232178     | 47.78  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.297          | 142  | 232499     | 46.86  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 45641      | 212.37 | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 217698     | 50.32  | ug/l   | 88       |
| 13) Acrolein                 | 3.920          | 56   | 49727      | 241.00 | ug/l   | 100      |
| 14) Allyl chloride           | 4.715          | 41   | 291758     | 48.45  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.415          | 53   | 208832     | 230.76 | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 212953     | 289.06 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.409          | 76   | 720641     | 45.63  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.715          | 43   | 126935     | 44.65  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 435254     | 50.51  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.962          | 84   | 257729     | 46.94  | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 248447     | 48.83  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.362          | 45   | 606696     | 49.04  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.303          | 43   | 1385734    | 246.38 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 416812     | 45.75  | ug/l   | 99       |
| 25) 2-Butanone               | 7.214          | 43   | 232349     | 240.88 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 381954     | 50.65  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 256202     | 47.92  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.544          | 49   | 134478     | 42.39  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 147232     | 236.81 | ug/l   | 99       |
| 30) Chloroform               | 7.709          | 83   | 436287     | 46.03  | ug/l   | 98       |
| 31) Cyclohexane              | 7.985          | 56   | 389961     | 48.54  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 397950     | 48.74  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 346864     | 52.62  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.291          | 43   | 102228     | 46.68  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 362811     | 52.60  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.350          | 83   | 427888     | 56.45  | ug/l   | 97       |
| 40) Benzene                  | 8.350          | 78   | 973601     | 50.12  | ug/l   | 98       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 10/15/2021 1:18:13 AM

Quant Time: Oct 12 05:37:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100521S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 06 09:10:31 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 55994    | 49.58   | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 237461   | 47.26   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.450  | 43   | 193159   | 48.14   | ug/l   | 97       |
| 44) Trichloroethene           | 9.108  | 130  | 243780   | 50.89   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 232423   | 46.88   | ug/l   | 99       |
| 46) Dibromomethane            | 9.467  | 93   | 121414   | 47.71   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.655  | 83   | 310897   | 47.34   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 95224    | 50.63   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 25912    | 1002.12 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 524617   | 253.42  | ug/l   | 99       |
| 52) Toluene                   | 10.397 | 92   | 619642   | 51.92   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 287607   | 50.04   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 346577   | 50.09   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 168240   | 48.53   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 199636   | 48.27   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 288050   | 48.84   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 430085   | 257.50  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.979 | 43   | 380082   | 253.35  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.132 | 129  | 202393   | 48.46   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 156601   | 48.52   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 192368   | 52.59   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.661 | 112  | 625892   | 51.46   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 229079   | 50.63   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.738 | 91   | 1184288  | 56.42   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.844 | 106  | 926876   | 112.13  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 417386   | 56.77   | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 720685   | 55.64   | ug/l   | 99       |
| 71) Bromoform                 | 12.349 | 173  | 106280   | 50.03   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.467 | 105  | 1122730  | 58.07   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 188815   | 51.82   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 183170   | 48.46   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 139186m  | 57.99   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 227183   | 52.56   | ug/l   | 97       |
| 78) n-propylbenzene           | 12.808 | 91   | 1419095  | 58.00   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 796363   | 55.48   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 955201   | 57.93   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 54103    | 50.04   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 824887   | 54.97   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 808793   | 59.35   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 949464   | 57.87   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 1247752  | 59.06   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 1025782  | 59.45   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 485196   | 53.45   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 470039   | 52.23   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 980720   | 59.54   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 193869   | 51.96   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 406753   | 52.55   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.491 | 75   | 27312    | 50.04   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 234859   | 56.37   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 153806   | 58.41   | ug/l   | 99       |
| 95) Naphthalene               | 15.385 | 128  | 423191   | 50.30   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 198935   | 54.20   | ug/l   | 97       |

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ALS Vial : 2 Sample Multiplier: 1

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10/15/2021 1:18:13 AM

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Quant Title : SW846 8260  
QLast Update : Wed Oct 06 09:10:31 2021  
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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