

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092221\  
 Data File : VD070435.D  
 Acq On : 22 Sep 2021 19:12  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 9/23/2021 11:35:37 AM

Quant Time: Sep 23 05:35:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 363329     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 645405     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 637754     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 301302     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 207773     | 44.537  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 89.080% |        |          |
| 35) Dibromofluoromethane     | 7.909          | 113  | 215337     | 46.873  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 93.740% |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 818907     | 49.095  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 98.200% |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 283712     | 48.669  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 97.340% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 149082     | 40.170  | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 219687     | 44.230  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.344          | 62   | 236755     | 41.416  | ug/l   | 99       |
| 5) Bromomethane              | 2.762          | 94   | 153493     | 43.547  | ug/l   | 97       |
| 6) Chloroethane              | 2.915          | 64   | 159744     | 45.861  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 311315     | 41.174  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.709          | 74   | 93077      | 44.531  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 196231     | 41.781  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.291          | 142  | 195905     | 43.704  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.203          | 59   | 97682m     | 185.183 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 4.068          | 96   | 176253     | 41.668  | ug/l   | 98       |
| 13) Acrolein                 | 3.921          | 56   | 34559      | 149.015 | ug/l   | 94       |
| 14) Allyl chloride           | 4.715          | 41   | 265533     | 42.719  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.415          | 53   | 227161     | 228.099 | ug/l   | 99       |
| 16) Acetone                  | 4.150          | 43   | 154008     | 184.904 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.409          | 76   | 617606     | 39.573  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.715          | 43   | 111003     | 48.515  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 431465     | 47.200  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.962          | 84   | 282674     | 55.225  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.468          | 96   | 230810     | 45.839  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.362          | 45   | 628507     | 47.242  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.309          | 43   | 1395976    | 226.499 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 416329     | 44.228  | ug/l   | 96       |
| 25) 2-Butanone               | 7.214          | 43   | 239656     | 216.153 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 313022     | 41.140  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 253157     | 46.803  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.544          | 49   | 182989     | 48.993  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.562          | 42   | 162964     | 228.967 | ug/l   | 97       |
| 30) Chloroform               | 7.709          | 83   | 440998     | 45.697  | ug/l   | 100      |
| 31) Cyclohexane              | 7.985          | 56   | 319602     | 39.770  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 359258     | 44.229  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 308511     | 44.721  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 119165     | 46.195  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 306655     | 44.946  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.356          | 83   | 336754     | 43.696  | ug/l   | 96       |
| 40) Benzene                  | 8.344          | 78   | 968711     | 47.918  | ug/l   | 98       |

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 Sample : VSTDCCC050  
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 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
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MMDadoda  
 9/23/2021 11:35:37 AM

Quant Time: Sep 23 05:35:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 69293m   | 51.055   | ug/l  |          |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 249790   | 46.133   | ug/l  | 99       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 211737   | 44.392   | ug/l  | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 227766   | 47.141   | ug/l  | 91       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 249690   | 47.076   | ug/l  | 95       |
| 46) Dibromomethane            | 9.473  | 93   | 129108   | 47.270   | ug/l  | 97       |
| 47) Bromodichloromethane      | 9.656  | 83   | 328663   | 47.168   | ug/l  | 96       |
| 48) Methyl methacrylate       | 9.456  | 41   | 104282   | 47.353   | ug/l  | 97       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 27909    | 1020.206 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 576865   | 233.726  | ug/l  | 99       |
| 52) Toluene                   | 10.397 | 92   | 598569   | 49.002   | ug/l  | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 283955   | 47.375   | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 341920   | 46.874   | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 178898   | 47.613   | ug/l  | 96       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 201556   | 49.139   | ug/l  | 98       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 305436   | 47.749   | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 537841   | 272.057  | ug/l  | 100      |
| 59) 2-Hexanone                | 10.979 | 43   | 385679   | 234.209  | ug/l  | 99       |
| 60) Dibromochloromethane      | 11.132 | 129  | 209711   | 47.959   | ug/l  | 97       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 167484   | 48.469   | ug/l  | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 185950   | 47.889   | ug/l  | 97       |
| 65) Chlorobenzene             | 11.661 | 112  | 628049   | 47.537   | ug/l  | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 229864   | 47.504   | ug/l  | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 1118875  | 49.105   | ug/l  | 100      |
| 68) m/p-Xylenes               | 11.844 | 106  | 873616   | 99.273   | ug/l  | 97       |
| 69) o-Xylene                  | 12.173 | 106  | 400923   | 50.854   | ug/l  | 98       |
| 70) Styrene                   | 12.185 | 104  | 720675   | 52.328   | ug/l  | 99       |
| 71) Bromoform                 | 12.355 | 173  | 113807   | 47.587   | ug/l  | 97       |
| 73) Isopropylbenzene          | 12.473 | 105  | 1023922  | 48.458   | ug/l  | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 199877   | 43.415   | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 198896   | 43.949   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 156029m  | 51.196   | ug/l  |          |
| 77) Bromobenzene              | 12.749 | 156  | 233732   | 47.945   | ug/l  | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 1329054  | 48.461   | ug/l  | 100      |
| 79) 2-Chlorotoluene           | 12.897 | 91   | 770987   | 48.230   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 897715   | 49.227   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 55360    | 45.513   | ug/l  | 98       |
| 82) 4-Chlorotoluene           | 12.997 | 91   | 813220   | 48.222   | ug/l  | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 737944   | 50.455   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 905344   | 50.415   | ug/l  | 100      |
| 85) sec-Butylbenzene          | 13.391 | 105  | 1128960  | 48.561   | ug/l  | 98       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 914885   | 48.979   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 485189   | 47.804   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 465896   | 45.732   | ug/l  | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 875389   | 47.004   | ug/l  | 100      |
| 90) Hexachloroethane          | 14.096 | 117  | 186600   | 43.640   | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 414780   | 46.318   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.491 | 75   | 29331    | 43.276   | ug/l  | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 224438   | 46.412   | ug/l  | 97       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 133052   | 44.856   | ug/l  | 97       |
| 95) Naphthalene               | 15.385 | 128  | 417880   | 47.548   | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 196043   | 45.948   | ug/l  | 99       |

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ALS Vial : 22 Sample Multiplier: 1

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Manual Integrations  
APPROVED

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9/23/2021 11:35:37 AM

Quant Time: Sep 23 05:35:37 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 09 03:07:09 2021  
Response via : Initial Calibration

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

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

