

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
 Data File : VD071402.D  
 Acq On : 21 Dec 2021 09:01  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Dec 21 19:03:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2021  
 Supervised By :Amit Patel 12/24/2021

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 336079     | 50.000   | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 566687     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 503607     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 246794     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 190804     | 48.384   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 96.760%  |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 187856     | 52.058   | ug/l   | -0.01    |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 104.120% |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 641175     | 46.690   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 93.380%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 247536     | 52.001   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 104.000% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 116206     | 40.547   | ug/l   | 94       |
| 3) Chloromethane             | 2.215          | 50   | 159345     | 42.026   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.356          | 62   | 196254     | 46.394   | ug/l   | 100      |
| 5) Bromomethane              | 2.779          | 94   | 140886     | 46.201   | ug/l   | 96       |
| 6) Chloroethane              | 2.926          | 64   | 144725     | 49.743   | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 3.279          | 101  | 298155     | 52.030   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.709          | 74   | 82410      | 53.048   | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 180275     | 53.323   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.303          | 142  | 177025     | 45.494   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.215          | 59   | 59037      | 227.617  | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 155795     | 49.935   | ug/l   | 85       |
| 13) Acrolein                 | 3.926          | 56   | 62066      | 230.313  | ug/l   | 98       |
| 14) Allyl chloride           | 4.715          | 41   | 314925     | 53.142   | ug/l # | 79       |
| 15) Acrylonitrile            | 5.420          | 53   | 211625     | 280.106  | ug/l   | 96       |
| 16) Acetone                  | 4.150          | 43   | 262192     | 250.340  | ug/l # | 85       |
| 17) Carbon Disulfide         | 4.415          | 76   | 384388     | 42.080   | ug/l   | 96       |
| 18) Methyl Acetate           | 4.715          | 43   | 151152     | 51.950   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 424922     | 55.573   | ug/l   | 95       |
| 20) Methylene Chloride       | 4.967          | 84   | 202857     | 51.066   | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 178266     | 50.758   | ug/l   | 85       |
| 22) Diisopropyl ether        | 6.362          | 45   | 668966     | 56.342   | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.303          | 43   | 1580388    | 246.558  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 378622     | 55.442   | ug/l   | 99       |
| 25) 2-Butanone               | 7.209          | 43   | 300791     | 248.855  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 327482     | 52.735   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 215385     | 54.209   | ug/l   | 89       |
| 28) Bromochloromethane       | 7.544          | 49   | 157650     | 53.149   | ug/l   | 92       |
| 29) Tetrahydrofuran          | 7.556          | 42   | 171394     | 273.710  | ug/l   | 92       |
| 30) Chloroform               | 7.703          | 83   | 390885     | 57.032   | ug/l   | 97       |
| 31) Cyclohexane              | 7.979          | 56   | 317453     | 47.326   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 341605     | 55.515   | ug/l   | 94       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 278533     | 52.589   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.285          | 43   | 125493     | 54.852   | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 293394     | 56.195   | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.350          | 83   | 318827     | 50.048   | ug/l   | 97       |
| 40) Benzene                  | 8.350          | 78   | 783763     | 54.479   | ug/l   | 100      |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2021  
 Supervised By :Amit Patel 12/24/2021

Quant Time: Dec 21 19:03:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 83933    | 69.267   | ug/l # | 73       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 246534   | 56.140   | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 256757   | 50.898   | ug/l # | 88       |
| 44) Trichloroethene           | 9.108  | 130  | 207244   | 54.028   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 214988   | 56.824   | ug/l   | 94       |
| 46) Dibromomethane            | 9.467  | 93   | 110387   | 56.237   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.655  | 83   | 300581   | 57.903   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.450  | 41   | 123904   | 55.327   | ug/l # | 79       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 22241    | 1173.789 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 642599   | 249.195  | ug/l   | 91       |
| 52) Toluene                   | 10.397 | 92   | 499023   | 54.669   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 267677   | 56.084   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 314883   | 55.542   | ug/l # | 76       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 151352   | 58.777   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 182247   | 49.262   | ug/l # | 76       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 260046   | 57.487   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 453291   | 258.689  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.979 | 43   | 463047   | 239.833  | ug/l   | 88       |
| 60) Dibromochloromethane      | 11.132 | 129  | 185045   | 57.820   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 138587   | 56.038   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.867 | 164  | 164575   | 51.476   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.667 | 112  | 520057   | 55.656   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 200069   | 58.641   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 987196   | 56.121   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.849 | 106  | 749032   | 112.789  | ug/l   | 97       |
| 69) o-Xylene                  | 12.173 | 106  | 350965   | 56.229   | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 595280   | 56.588   | ug/l   | 96       |
| 71) Bromoform                 | 12.355 | 173  | 100458   | 56.836   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 964153   | 53.954   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 224201   | 46.301   | ug/l   | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 162226   | 55.126   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 110577m  | 47.027   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 205464   | 53.083   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 1201113  | 53.973   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 654143   | 52.372   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 792856   | 53.805   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 48061    | 48.060   | ug/l # | 79       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 690483   | 53.250   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 686953   | 54.282   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 788806   | 54.829   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 1055209  | 54.592   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 876508   | 55.444   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 415968   | 53.987   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 410076   | 53.719   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 852784   | 55.259   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.102 | 117  | 165742   | 55.305   | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 350663   | 53.517   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 25464    | 53.134   | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 213473   | 52.230   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 119175   | 51.534   | ug/l   | 99       |
| 95) Naphthalene               | 15.385 | 128  | 383236   | 53.190   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 181918   | 52.404   | ug/l   | 98       |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

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Quant Time: Dec 21 19:03:09 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
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

