

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021121\  
 Data File : VY004018.D  
 Acq On : 11 Feb 2021 21:49  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/12/2021 1:41:02 PM

Quant Time: Feb 12 10:57:49 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y012821S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 01 00:38:02 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|--------|--------|----------|
| -----                        |                |      |            |        |        |          |
| Internal Standards           |                |      |            |        |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 231867     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 364760     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 332558     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 161992     | 50.00  | ug/l   | 0.00     |
|                              |                |      |            |        |        |          |
| System Monitoring Compounds  |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 112925     | 44.29  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 88.58% |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 100963     | 47.34  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 94.68% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 373349     | 44.61  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 89.22% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 139021     | 45.57  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 91.14% |        |          |
|                              |                |      |            |        |        |          |
| Target Compounds             |                |      |            |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 92641      | 40.31  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 113155     | 39.09  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.253          | 62   | 115164     | 38.16  | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 85373      | 39.71  | ug/l   | 95       |
| 6) Chloroethane              | 2.796          | 64   | 76911      | 40.66  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 167423     | 40.03  | ug/l   | 90       |
| 8) Diethyl Ether             | 3.540          | 74   | 58290      | 44.55  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 95518      | 44.25  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.094          | 142  | 123664     | 46.30  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 4.972          | 59   | 51079      | 216.01 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 92549      | 44.22  | ug/l   | 97       |
| 13) Acrolein                 | 3.735          | 56   | 55313      | 235.33 | ug/l   | 98       |
| 14) Allyl chloride           | 4.491          | 41   | 183029     | 47.49  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.173          | 53   | 160862     | 241.57 | ug/l   | 98       |
| 16) Acetone                  | 3.954          | 43   | 115235     | 184.12 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.198          | 76   | 287232     | 41.76  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.485          | 43   | 75408      | 48.34  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 307568     | 48.13  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.722          | 84   | 115620     | 43.51  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 113770     | 47.24  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.125          | 45   | 375412     | 48.96  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.070          | 43   | 1198359    | 229.37 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 189738     | 44.64  | ug/l   | 99       |
| 25) 2-Butanone               | 6.990          | 43   | 218309     | 244.81 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 174160     | 43.00  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 131045     | 49.03  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.338          | 49   | 114228     | 62.38  | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 144069     | 253.47 | ug/l   | 97       |
| 30) Chloroform               | 7.515          | 83   | 212393     | 47.54  | ug/l   | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 192542     | 44.97  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 184692     | 44.82  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 159663     | 43.28  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.076          | 43   | 98185      | 47.05  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 161667     | 40.56  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 193623     | 44.03  | ug/l   | 99       |
| 40) Benzene                  | 8.167          | 78   | 465291     | 45.62  | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021121\  
 Data File : VY004018.D  
 Acq On : 11 Feb 2021 21:49  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/12/2021 1:41:02 PM

Quant Time: Feb 12 10:57:49 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y012821S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 01 00:38:02 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 55440m   | 40.28   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 145871   | 41.55   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 198141   | 48.81   | ug/l   | 99       |
| 44) Trichloroethene           | 8.941  | 130  | 123889   | 43.96   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 124963   | 49.50   | ug/l   | 100      |
| 46) Dibromomethane            | 9.307  | 93   | 66167    | 45.87   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 168940   | 45.29   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 93357    | 47.08   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 16338    | 1065.01 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 509369   | 245.69  | ug/l   | 97       |
| 52) Toluene                   | 10.246 | 92   | 290282   | 45.09   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 178671   | 45.47   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 198783   | 45.62   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 94814    | 47.42   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 138337   | 48.46   | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 165921   | 46.32   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 307534   | 237.60  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.831 | 43   | 350999   | 241.54  | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.983 | 129  | 114494   | 43.93   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 88061    | 44.02   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.715 | 164  | 130921   | 43.90   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 304980   | 45.24   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 119059   | 45.27   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.593 | 91   | 569422   | 45.05   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.697 | 106  | 418032   | 89.25   | ug/l   | 100      |
| 69) o-Xylene                  | 12.026 | 106  | 196160   | 45.02   | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 344755   | 45.86   | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 75068    | 44.60   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.325 | 105  | 547639   | 47.23   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.142 | 43   | 185887   | 54.54   | ug/l # | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 102259   | 48.63   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 79378m   | 48.64   | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 132457   | 46.09   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.666 | 91   | 650592   | 47.16   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 366936   | 46.44   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 464926   | 46.73   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 40451    | 47.37   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 375916   | 44.99   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 388101   | 46.91   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 531185   | 53.26   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 542755   | 47.34   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 487339   | 45.57   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 243202   | 44.90   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 238128   | 44.51   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 477852   | 48.13   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.958 | 117  | 92254    | 47.12   | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.733 | 146  | 220053   | 45.60   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 18683    | 43.10   | ug/l   | 88       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 146411   | 43.83   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 89272    | 41.59   | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 308084   | 49.14   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 129389   | 44.97   | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021121\  
Data File : VY004018.D  
Acq On : 11 Feb 2021 21:49  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
2/12/2021 1:41:02 PM

Quant Time: Feb 12 10:57:49 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y012821S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 01 00:38:02 2021  
Response via : Initial Calibration

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

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

