

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070721\  
 Data File : VY005362.D  
 Acq On : 07 Jul 2021 13:39  
 Operator : SY/MD  
 Sample : VY0707SBS01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0707SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2021 6:44:52 PM

Quant Time: Jul 08 02:03:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062221S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 07:57:52 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 256057              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 376178              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.495         | 117  | 350714              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 187074              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.148          | 65   | 123763              | 58.244  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 116.480% |         |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 116664              | 52.586  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 105.180% |         |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 462016              | 52.075  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 104.160% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 159825              | 54.060  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 108.120% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 36217               | 21.510  | ug/l   | 98       |
| 3) Chloromethane             | 2.119          | 50   | 53757               | 23.973  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.253          | 62   | 64534               | 25.171  | ug/l   | 97       |
| 5) Bromomethane              | 2.637          | 94   | 49283               | 30.306  | ug/l   | 95       |
| 6) Chloroethane              | 2.790          | 64   | 43714               | 26.073  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 78872               | 23.012  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.533          | 74   | 27504               | 21.450  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 46022               | 21.932  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.094          | 142  | 51421               | 17.226  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.978          | 59   | 44703               | 143.771 | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 44473               | 20.978  | ug/l   | 95       |
| 13) Acrolein                 | 3.735          | 56   | 12044               | 115.352 | ug/l   | 92       |
| 14) Allyl chloride           | 4.484          | 41   | 69292               | 22.754  | ug/l   | 92       |
| 15) Acrylonitrile            | 5.173          | 53   | 66002               | 110.812 | ug/l   | 99       |
| 16) Acetone                  | 3.960          | 43   | 54568               | 111.163 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.198          | 76   | 140102              | 21.011  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.491          | 43   | 30586               | 23.445  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.240          | 73   | 124123              | 21.414  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.722          | 84   | 64831               | 19.655  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 51334               | 21.746  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.131          | 45   | 156161              | 24.668  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.070          | 43   | 488363              | 119.210 | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 90896               | 23.135  | ug/l   | 99       |
| 25) 2-Butanone               | 7.002          | 43   | 82365               | 115.070 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 78993               | 23.056  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 57818               | 21.777  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.344          | 49   | 36116               | 22.975  | ug/l   | 89       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 55370               | 117.574 | ug/l   | 93       |
| 30) Chloroform               | 7.514          | 83   | 92628               | 23.168  | ug/l   | 96       |
| 31) Cyclohexane              | 7.789          | 56   | 84161               | 22.185  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 79686               | 22.346  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 70939               | 21.416  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.088          | 43   | 37433               | 21.914  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 71047               | 20.489  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.185          | 83   | 85714               | 19.994  | ug/l   | 97       |
| 40) Benzene                  | 8.167          | 78   | 210991              | 21.601  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070721\  
 Data File : VY005362.D  
 Acq On : 07 Jul 2021 13:39  
 Operator : SY/MD  
 Sample : VY0707SBS01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0707SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2021 6:44:52 PM

Quant Time: Jul 08 02:03:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062221S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 07:57:52 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.325  | 41   | 19339m   | 20.414  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 61400    | 23.143  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 70695    | 22.516  | ug/l   | 96       |
| 44) Trichloroethene           | 8.941  | 130  | 57320    | 20.757  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.221  | 63   | 51718    | 22.128  | ug/l   | 97       |
| 46) Dibromomethane            | 9.313  | 93   | 28923    | 21.279  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.502  | 83   | 70173    | 22.018  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.301  | 41   | 31219    | 22.664  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 7452     | 416.907 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 187397   | 114.031 | ug/l   | 95       |
| 52) Toluene                   | 10.246 | 92   | 133661   | 21.409  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 75646    | 21.683  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 84743    | 21.545  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 42199    | 21.259  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 54861    | 20.360  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 71482    | 21.501  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 137953   | 116.078 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.837 | 43   | 127993   | 113.238 | ug/l   | 93       |
| 60) Dibromochloromethane      | 10.989 | 129  | 51160    | 21.040  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 40838    | 21.150  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 53168    | 20.544  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 146437   | 21.066  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 53810    | 20.856  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 250522   | 20.900  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 202721   | 42.213  | ug/l   | 100      |
| 69) o-Xylene                  | 12.032 | 106  | 94113    | 20.696  | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 158876   | 20.778  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 35236    | 20.071  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 244205   | 20.126  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 63823    | 22.226  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 50233    | 21.010  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.635 | 75   | 33728m   | 20.329  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 65115    | 20.224  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 299720   | 20.949  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 169128   | 20.955  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 207212   | 20.644  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 17768    | 19.981  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 177451   | 21.252  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 181296   | 20.260  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 208058   | 20.966  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.257 | 105  | 272755   | 20.951  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 230322   | 20.504  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 127751   | 20.783  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 127592   | 20.990  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 209711   | 21.253  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.964 | 117  | 44048    | 21.708  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 113868   | 20.896  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 8061     | 20.241  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 77029    | 20.056  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 48334    | 20.108  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 134424   | 18.963  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 66794    | 19.747  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070721\  
Data File : VY005362.D  
Acq On : 07 Jul 2021 13:39  
Operator : SY/MD  
Sample : VY0707SBSD01  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0707SBSD01

Manual Integrations  
APPROVED

MMDadoda  
7/8/2021 6:44:52 PM

Quant Time: Jul 08 02:03:47 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062221S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 23 07:57:52 2021  
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070721\  
 Data File : VY005362.D  
 Acq On : 07 Jul 2021 13:39  
 Operator : SY/MD  
 Sample : VY0707SBSD01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 Client Sample Id :  
 VY0707SBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2021 6:44:52 PM

Quant Time: Jul 08 02:03:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062221S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 07:57:52 2021  
 Response via : Initial Calibration

