

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072023\  
 Data File : VY014713.D  
 Acq On : 20 Jul 2023 12:09  
 Operator : SY/MD  
 Sample : VY0720SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0720SBS01

Quant Time: Jul 20 14:09:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/21/2023  
 Supervised By : Mahesh Dadoda 07/21/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 230980              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 378579              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 340007              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 172333              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 140821              | 53.501  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 107.000% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 129015              | 53.534  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 107.060% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 465119              | 52.349  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 104.700% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 176597              | 51.836  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 103.680% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 43713               | 23.229  | ug/l   | 99       |
| 3) Chloromethane             | 2.113          | 50   | 54344               | 25.690  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.247          | 62   | 60966               | 25.788  | ug/l   | 94       |
| 5) Bromomethane              | 2.625          | 94   | 42798               | 27.393  | ug/l   | 100      |
| 6) Chloroethane              | 2.778          | 64   | 38454               | 26.040  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 87161               | 21.952  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.528          | 74   | 32051               | 21.695  | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 50431               | 20.722  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.082          | 142  | 48728               | 20.362  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 4.942          | 59   | 73599               | 124.812 | ug/l # | 90       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 47138               | 20.724  | ug/l   | 86       |
| 13) Acrolein                 | 3.723          | 56   | 30550               | 111.048 | ug/l   | 98       |
| 14) Allyl chloride           | 4.472          | 41   | 77688               | 19.236  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.155          | 53   | 91229               | 111.985 | ug/l   | 100      |
| 16) Acetone                  | 3.948          | 43   | 82241               | 98.601  | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.186          | 76   | 134241              | 20.614  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.472          | 43   | 73152               | 22.854  | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 160162              | 21.677  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.710          | 84   | 60562               | 19.800  | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 54204               | 20.999  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.119          | 45   | 168120              | 20.475  | ug/l   | 90       |
| 23) Vinyl Acetate            | 6.051          | 43   | 505641              | 102.906 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 96348               | 20.508  | ug/l   | 97       |
| 25) 2-Butanone               | 6.984          | 43   | 130940              | 107.305 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 88072               | 19.670  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 63679               | 21.194  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.332          | 49   | 46414               | 22.939  | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.338          | 42   | 85504               | 113.796 | ug/l   | 91       |
| 30) Chloroform               | 7.502          | 83   | 101938              | 21.041  | ug/l   | 98       |
| 31) Cyclohexane              | 7.783          | 56   | 85008               | 19.456  | ug/l # | 81       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 90556               | 20.768  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 75295               | 20.892  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.070          | 43   | 55414               | 22.332  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 79805               | 20.948  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.179          | 83   | 95104               | 20.255  | ug/l   | 93       |
| 40) Benzene                  | 8.155          | 78   | 217294              | 21.200  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072023\  
 Data File : VY014713.D  
 Acq On : 20 Jul 2023 12:09  
 Operator : SY/MD  
 Sample : VY0720SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0720SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/21/2023  
 Supervised By : Mahesh Dadoda 07/21/2023

Quant Time: Jul 20 14:09:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 29336m   | 22.985  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 71327    | 21.975  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 101102   | 21.389  | ug/l   | 96       |
| 44) Trichloroethene           | 8.941  | 130  | 60756    | 21.185  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 55147    | 20.604  | ug/l   | 98       |
| 46) Dibromomethane            | 9.301  | 93   | 35674    | 21.971  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 80871    | 21.132  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 44908    | 21.114  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 11586    | 437.607 | ug/l # | 54       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 280641   | 113.082 | ug/l   | 94       |
| 52) Toluene                   | 10.240 | 92   | 137653   | 20.987  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 86898    | 20.759  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 94394    | 20.736  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 49311    | 21.802  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 74197    | 21.486  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 83618    | 21.435  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 192491   | 119.630 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.831 | 43   | 201485   | 111.329 | ug/l   | 92       |
| 60) Dibromochloromethane      | 10.983 | 129  | 60571    | 21.843  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 49297    | 21.848  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.715 | 164  | 59432    | 21.734  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 152094   | 20.992  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 58027    | 21.241  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 271169   | 20.729  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 210221   | 42.098  | ug/l   | 96       |
| 69) o-Xylene                  | 12.026 | 106  | 101181   | 20.803  | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 175245   | 21.378  | ug/l   | 96       |
| 71) Bromoform                 | 12.203 | 173  | 40578    | 21.914  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.325 | 105  | 271625   | 20.130  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 90815    | 20.095  | ug/l # | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 64319    | 20.902  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 47209m   | 21.690  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 63664    | 20.669  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.666 | 91   | 325129   | 19.995  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 186417   | 19.905  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 226694   | 20.116  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 22648    | 20.147  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 191357   | 19.839  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.075 | 119  | 200510   | 20.058  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 222707   | 20.137  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 295387   | 20.143  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 243378   | 20.327  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 124236   | 20.724  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 125523   | 20.895  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 230013   | 19.746  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.959 | 117  | 48499    | 19.721  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 113942   | 20.745  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 12444    | 21.146  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 71191    | 20.419  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 39317    | 20.521  | ug/l   | 97       |
| 95) Naphthalene               | 15.233 | 128  | 167632   | 20.637  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 63197    | 20.395  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072023\  
Data File : VY014713.D  
Acq On : 20 Jul 2023 12:09  
Operator : SY/MD  
Sample : VY0720SBS01  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0720SBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/21/2023  
Supervised By :Mahesh Dadoda 07/21/2023

Quant Time: Jul 20 14:09:02 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 14 02:09:50 2023  
Response via : Initial Calibration

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

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

