

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\  
 Data File : VY002558.D  
 Acq On : 04 May 2020 22:59  
 Operator : SY/MD  
 Sample : VY0504SBSD02  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0504SBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 5/5/2020 11:29:24 AM

Quant Time: May 05 08:56:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 380448   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 593701   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 539520   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 271013   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.17   | 65  | 166479   | 52.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.08% |      |
| 35) Dibromofluoromethane  | 7.75   | 113 | 172295   | 50.74 | ug/l    | 0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.48% |      |
| 50) Toluene-d8            | 10.19  | 98  | 666125   | 50.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.48% |      |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 226922   | 50.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.88% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 44774  | 15.519  | ug/l | 100    |
| 3) Chloromethane              | 2.13 | 50  | 55631  | 18.048  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.27 | 62  | 64832  | 18.216  | ug/l | 98     |
| 5) Bromomethane               | 2.65 | 94  | 47211  | 19.235  | ug/l | 97     |
| 6) Chloroethane               | 2.81 | 64  | 41163  | 19.369  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.15 | 101 | 103778 | 18.813  | ug/l | 99     |
| 8) Diethyl Ether              | 3.55 | 74  | 38475  | 20.756  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.93 | 101 | 65070  | 19.301  | ug/l | 99     |
| 10) Methyl Iodide             | 4.11 | 142 | 88929  | 19.362  | ug/l | 100    |
| 11) Tert butyl alcohol        | 4.99 | 59  | 37426  | 113.719 | ug/l | 96     |
| 12) 1,1-Dichloroethene        | 3.90 | 96  | 63886  | 19.507  | ug/l | 98     |
| 13) Acrolein                  | 3.76 | 56  | 18807  | 82.639  | ug/l | 100    |
| 14) Allyl chloride            | 4.51 | 41  | 98029  | 20.543  | ug/l | 98     |
| 15) Acrylonitrile             | 5.20 | 53  | 91921  | 105.153 | ug/l | 99     |
| 16) Acetone                   | 3.98 | 43  | 65524  | 99.252  | ug/l | 100    |
| 17) Carbon Disulfide          | 4.22 | 76  | 177877 | 18.053  | ug/l | 99     |
| 18) Methyl Acetate            | 4.52 | 43  | 47379  | 21.479  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.25 | 73  | 180943 | 21.176  | ug/l | 99     |
| 20) Methylene Chloride        | 4.75 | 84  | 80616  | 21.837  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.26 | 96  | 73043  | 20.405  | ug/l | 93     |
| 22) Diisopropyl ether         | 6.16 | 45  | 212309 | 21.989  | ug/l | 96     |
| 23) Vinyl Acetate             | 6.10 | 43  | 640630 | 105.503 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.05 | 63  | 120443 | 21.086  | ug/l | 100    |
| 25) 2-Butanone                | 7.02 | 43  | 112432 | 104.039 | ug/l | 95     |
| 26) 2,2-Dichloropropane       | 7.02 | 77  | 99828  | 18.386  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.02 | 96  | 83799  | 21.157  | ug/l | 97     |
| 28) Bromochloromethane        | 7.36 | 49  | 49315  | 21.072  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.38 | 42  | 76753  | 107.348 | ug/l | 98     |
| 30) Chloroform                | 7.53 | 83  | 125389 | 21.112  | ug/l | 99     |
| 31) Cyclohexane               | 7.81 | 56  | 108233 | 18.824  | ug/l | # 95   |
| 32) 1,1,1-Trichloroethane     | 7.73 | 97  | 110894 | 20.088  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.94 | 75  | 94366  | 18.960  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.11 | 43  | 51244  | 20.036  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.93 | 117 | 100896 | 18.568  | ug/l | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\  
 Data File : VY002558.D  
 Acq On : 04 May 2020 22:59  
 Operator : SY/MD  
 Sample : VY0504SBS02  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleID :  
 VY0504SBS02

Manual Integrations  
 APPROVED

MMDadoda  
 5/5/2020 11:29:24 AM

Quant Time: May 05 08:56:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.20  | 83   | 119412   | 18.165  | ug/l   | 97       |
| 40) Benzene                    | 8.19  | 78   | 283750   | 19.739  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.35  | 41   | 33066m   | 24.046  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.26  | 62   | 78537    | 19.478  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.30  | 43   | 97019    | 20.234  | ug/l   | 100      |
| 44) Trichloroethene            | 8.96  | 130  | 87999    | 19.589  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.24  | 63   | 70444    | 20.305  | ug/l   | 99       |
| 46) Dibromomethane             | 9.33  | 93   | 39683    | 19.880  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.52  | 83   | 96823    | 19.949  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.31  | 41   | 43516    | 20.054  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 10661    | 403.385 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43   | 253917   | 102.742 | ug/l   | 100      |
| 52) Toluene                    | 10.26 | 92   | 180254   | 19.512  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.48 | 75   | 98168    | 19.304  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.95  | 75   | 115233   | 19.601  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 58749    | 20.183  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 77426    | 19.995  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 100622   | 20.384  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 205473   | 100.619 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.85 | 43   | 172217   | 101.245 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.00 | 129  | 74074    | 20.008  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 56889    | 19.738  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.74 | 164  | 98220    | 20.490  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.53 | 112  | 203101   | 19.803  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 75870    | 19.928  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.61 | 91   | 353787   | 19.638  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.72 | 106  | 269729   | 38.694  | ug/l   | 99       |
| 69) o-Xylene                   | 12.04 | 106  | 129092   | 19.779  | ug/l   | 99       |
| 70) Styrene                    | 12.06 | 104  | 221291   | 19.833  | ug/l   | 98       |
| 71) Bromoform                  | 12.22 | 173  | 46622    | 19.730  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.34 | 105  | 348820   | 19.860  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.16 | 43   | 86820    | 20.548  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 53858    | 19.281  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 46744m   | 19.409  | ug/l   |          |
| 77) Bromobenzene               | 12.62 | 156  | 89321    | 20.355  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.68 | 91   | 402471   | 19.745  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 226184   | 20.033  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 288005   | 19.781  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 21557    | 17.948  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 235740   | 19.877  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.09 | 119  | 260898   | 20.437  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 289293   | 19.937  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.27 | 105  | 354905   | 20.035  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 326822   | 19.690  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 165696   | 19.950  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 166074   | 20.194  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 292517   | 19.359  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.97 | 117  | 61631    | 20.389  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 149801   | 20.213  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.37 | 75   | 10278    | 19.739  | ug/l   | 99       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY050420\  
Data File : VY002558.D  
Acq On : 04 May 2020 22:59  
Operator : SY/MD  
Sample : VY0504SBSD02  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0504SBSD02

Manual Integrations  
APPROVED

MMDadoda  
5/5/2020 11:29:24 AM

Quant Time: May 05 08:56:02 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 107124   | 19.910 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 65479    | 20.274 | ug/l  | 98       |
| 95) Naphthalene            | 15.25 | 128  | 200680   | 20.446 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.44 | 180  | 90845    | 19.889 | ug/l  | 98       |

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

