

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011421\  
 Data File : VY003917.D  
 Acq On : 14 Jan 2021 13:03  
 Operator : SY/MD  
 Sample : VY0114SBS02  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0114SBS02

Manual Integrations  
 APPROVED

MMDadoda  
 1/15/2021 5:45:21 PM

Quant Time: Jan 15 00:57:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 12 11:47:10 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 148321     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 215119     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 201472     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 110997     | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 107299     | 46.57   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 93.14%  |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 88176      | 50.16   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 100.32% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 352729     | 49.51   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 99.02%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 130873     | 50.30   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 100.60% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 47618      | 24.88   | ug/l   | 99       |
| 3) Chloromethane             | 2.113          | 50   | 58990      | 23.82   | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.253          | 62   | 63704      | 24.01   | ug/l   | 95       |
| 5) Bromomethane              | 2.643          | 94   | 43216      | 22.64   | ug/l   | 96       |
| 6) Chloroethane              | 2.796          | 64   | 38880      | 23.81   | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 80739      | 23.25   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.534          | 74   | 26859      | 24.11   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 39172      | 21.76   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.094          | 142  | 46362      | 21.65   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.960          | 59   | 26179      | 109.29  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 37706      | 21.45   | ug/l   | 95       |
| 13) Acrolein                 | 3.735          | 56   | 22691      | 99.56   | ug/l   | 99       |
| 14) Allyl chloride           | 4.491          | 41   | 76675      | 20.16   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.173          | 53   | 63256      | 101.56  | ug/l   | 98       |
| 16) Acetone                  | 3.948          | 43   | 55474      | 97.37   | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.198          | 76   | 121471     | 20.75   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.485          | 43   | 30671      | 20.24   | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 112002     | 20.47   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.722          | 84   | 47718      | 22.35   | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 41928      | 20.81   | ug/l   | 85       |
| 22) Diisopropyl ether        | 6.125          | 45   | 153288     | 20.68   | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.070          | 43   | 518278     | 100.93  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 77898      | 20.97   | ug/l   | 99       |
| 25) 2-Butanone               | 6.990          | 43   | 89770      | 101.13  | ug/l # | 89       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 71737      | 20.65   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 46326      | 20.86   | ug/l   | 93       |
| 28) Bromochloromethane       | 7.338          | 49   | 33128      | 19.21   | ug/l   | 83       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 60804      | 101.88  | ug/l   | 95       |
| 30) Chloroform               | 7.515          | 83   | 78434      | 21.03   | ug/l   | 97       |
| 31) Cyclohexane              | 7.789          | 56   | 79757      | 20.64   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 71892      | 20.69   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 60881      | 20.67   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 40763      | 20.57   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 64534      | 20.70   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.185          | 83   | 75566      | 21.33   | ug/l   | 95       |
| 40) Benzene                  | 8.161          | 78   | 170506     | 21.14   | ug/l   | 99       |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
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Manual Integrations  
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MMDadoda  
 1/15/2021 5:45:21 PM

Quant Time: Jan 15 00:57:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 12 11:47:10 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.344  | 41   | 36339m   | 32.61  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 56715    | 20.43  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 77426    | 20.52  | ug/l   | 95       |
| 44) Trichloroethene           | 8.941  | 130  | 47906    | 21.72  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 44280    | 21.17  | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 24309    | 20.92  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 61572    | 21.23  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.289  | 41   | 36504    | 20.44  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 7085     | 450.30 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 205543   | 102.71 | ug/l   | 96       |
| 52) Toluene                   | 10.246 | 92   | 107560   | 21.05  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 65518    | 20.92  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 74096    | 21.69  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 34946    | 22.16  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 49310    | 20.78  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 59477    | 20.73  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 127788   | 108.49 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.831 | 43   | 142333   | 102.16 | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.983 | 129  | 43490    | 21.30  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 33604    | 21.70  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 52784    | 21.55  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.514 | 112  | 113070   | 21.18  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 43127    | 21.17  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 211349   | 21.08  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.697 | 106  | 159012   | 42.79  | ug/l   | 96       |
| 69) o-Xylene                  | 12.026 | 106  | 73437    | 21.08  | ug/l   | 96       |
| 70) Styrene                   | 12.038 | 104  | 127429   | 21.33  | ug/l   | 98       |
| 71) Bromoform                 | 12.203 | 173  | 28480    | 21.27  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.325 | 105  | 205971   | 20.68  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 72161    | 20.25  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 39200    | 20.74  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 26215m   | 17.47  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 49896    | 20.51  | ug/l   | 88       |
| 78) n-propylbenzene           | 12.666 | 91   | 249093   | 20.88  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 140159   | 20.85  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 179304   | 20.81  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 16565    | 20.95  | ug/l # | 97       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 149161   | 20.85  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.068 | 119  | 152214   | 20.86  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 177631   | 20.78  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 210500   | 20.98  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 196870   | 20.83  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 95033    | 20.26  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 97317    | 21.14  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.690 | 91   | 186768   | 20.81  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.958 | 117  | 35668    | 20.84  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.733 | 146  | 86786    | 21.14  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 8164     | 20.52  | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 62966    | 20.82  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.105 | 225  | 41823    | 20.91  | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 115402   | 20.25  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 53223    | 19.98  | ug/l   | 99       |

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ALS Vial : 6 Sample Multiplier: 1

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Manual Integrations  
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1/15/2021 5:45:21 PM

Quant Time: Jan 15 00:57:13 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011221S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 12 11:47:10 2021  
Response via : Initial Calibration

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

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

