

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030920\  
 Data File : VY001907.D  
 Acq On : 09 Mar 2020 13:23  
 Operator : SY/MD  
 Sample : VY0309SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0309SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 3/10/2020 2:56:47 PM

Quant Time: Mar 10 12:09:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 180919   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 324372   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 293652   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 139226   | 50.00 | ug/l  | -0.01    |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 99416    | 51.47 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.94% |       |
| 35) Dibromofluoromethane  | 7.73   | 113 | 91388    | 51.60 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.20% |       |
| 50) Toluene-d8            | 10.18  | 98  | 383607   | 51.36 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.72% |       |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 134149   | 51.65 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.30% |       |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.90 | 85  | 32688  | 19.574  | ug/l   | 95     |
| 3) Chloromethane              | 2.12 | 50  | 46482  | 20.644  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.26 | 62  | 44894  | 19.602  | ug/l   | 99     |
| 5) Bromomethane               | 2.65 | 94  | 30459  | 19.161  | ug/l   | 96     |
| 6) Chloroethane               | 2.79 | 64  | 28638  | 19.906  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 62055  | 19.979  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.54 | 74  | 25269  | 20.642  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101 | 41649  | 20.848  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.10 | 142 | 45541  | 19.713  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.96 | 59  | 36973  | 177.393 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 40771  | 20.269  | ug/l   | 97     |
| 13) Acrolein                  | 3.74 | 56  | 24881  | 91.673  | ug/l   | 96     |
| 14) Allyl chloride            | 4.49 | 41  | 73286  | 20.551  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.18 | 53  | 66526  | 101.699 | ug/l   | 100    |
| 16) Acetone                   | 3.96 | 43  | 53923  | 95.855  | ug/l   | 93     |
| 17) Carbon Disulfide          | 4.20 | 76  | 135108 | 19.981  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.49 | 43  | 29167  | 20.179  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.24 | 73  | 113109 | 20.750  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.73 | 84  | 50156  | 20.803  | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene  | 5.23 | 96  | 47104  | 20.632  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.13 | 45  | 151300 | 20.699  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.07 | 43  | 487410 | 101.714 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.03 | 63  | 81056  | 20.477  | ug/l   | 100    |
| 25) 2-Butanone                | 7.00 | 43  | 86591  | 101.219 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 69158  | 21.286  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96  | 51557  | 20.760  | ug/l   | 100    |
| 28) Bromochloromethane        | 7.35 | 49  | 36146  | 20.259  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.36 | 42  | 55506  | 97.705  | ug/l   | 97     |
| 30) Chloroform                | 7.52 | 83  | 76160  | 20.478  | ug/l   | 98     |
| 31) Cyclohexane               | 7.79 | 56  | 84869  | 19.996  | ug/l   | 93     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 64630  | 20.619  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.93 | 75  | 64445  | 20.646  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.08 | 43  | 38612  | 21.283  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 54616  | 20.482  | ug/l   | 95     |

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 ALS Vial : 5 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 85438    | 20.637  | ug/l   | 94       |
| 40) Benzene                    | 8.16  | 78   | 192462   | 20.802  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.34  | 41   | 24773m   | 30.342  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 49861    | 20.914  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.28  | 43   | 69833    | 20.331  | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 46167    | 20.489  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 49414    | 21.246  | ug/l   | 98       |
| 46) Dibromomethane             | 9.31  | 93   | 25087    | 20.931  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 58371    | 20.936  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.30  | 41   | 31926    | 20.947  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.30  | 88   | 6453     | 392.928 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 182983   | 103.430 | ug/l   | 99       |
| 52) Toluene                    | 10.24 | 92   | 118600   | 21.102  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 63231    | 20.817  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 74716    | 20.663  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 37071    | 21.135  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 52662    | 20.483  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 65310    | 20.888  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 133076   | 133.025 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.83 | 43   | 126904   | 100.499 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 38870    | 21.030  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 34414    | 20.713  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.72 | 164  | 38048    | 20.661  | ug/l   | 93       |
| 65) Chlorobenzene              | 11.52 | 112  | 121645   | 20.790  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 40060    | 20.878  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.59 | 91   | 226072   | 20.717  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 166435   | 41.254  | ug/l   | 98       |
| 69) o-Xylene                   | 12.03 | 106  | 79696    | 20.959  | ug/l   | 98       |
| 70) Styrene                    | 12.05 | 104  | 136143   | 20.904  | ug/l   | 100      |
| 71) Bromoform                  | 12.20 | 173  | 21099    | 20.276  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.33 | 105  | 211676   | 19.917  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 63790    | 19.529  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 45205    | 19.723  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 32983m   | 19.965  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 46036    | 20.444  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.67 | 91   | 266573   | 20.330  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 144856   | 19.996  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 178192   | 20.366  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 15787    | 19.303  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 153937   | 20.409  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 151531   | 20.851  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 180442   | 20.781  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 223173   | 20.835  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 192924   | 20.879  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 89713    | 20.331  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 89695    | 20.037  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.70 | 91   | 200362   | 20.900  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 36265    | 20.804  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 81809    | 20.408  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 7331     | 20.498  | ug/l   | 93       |

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ALS Vial : 5 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Thu Mar 05 04:05:33 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 54504    | 20.965 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 26285    | 20.738 | ug/l  | 99       |
| 95) Naphthalene            | 15.23 | 128  | 124169   | 20.136 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 47470    | 20.727 | ug/l  | 99       |

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

