

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012920\  
 Data File : VY001416.D  
 Acq On : 29 Jan 2020 12:20  
 Operator : SY/MD  
 Sample : VY0129SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0129SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/30/2020 10:27:28 AM

Quant Time: Jan 29 15:28:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.83  | 168  | 197584   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.72  | 114  | 346319   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 308913   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 148665   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 109720   | 51.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.06% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 104017   | 51.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.34% |          |
| 50) Toluene-d8              | 10.19 | 98   | 421865   | 53.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.84% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 158111   | 50.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.56% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.92 | 85   | 36559    | 23.463  | ug/l  | 97     |
| 3) Chloromethane              | 2.13 | 50   | 52855    | 22.444  | ug/l  | 96     |
| 4) Vinyl Chloride             | 2.27 | 62   | 54438    | 22.169  | ug/l  | 95     |
| 5) Bromomethane               | 2.66 | 94   | 35201    | 21.285  | ug/l  | 98     |
| 6) Chloroethane               | 2.82 | 64   | 35128    | 22.388  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 3.15 | 101  | 72660    | 23.127  | ug/l  | 98     |
| 8) Diethyl Ether              | 3.56 | 74   | 28433    | 21.438  | ug/l  | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.94 | 101  | 46484    | 23.233  | ug/l  | 99     |
| 10) Methyl Iodide             | 4.13 | 142  | 56130    | 21.270  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 5.00 | 59   | 32734    | 110.267 | ug/l  | 97     |
| 12) 1,1-Dichloroethene        | 3.91 | 96   | 47405    | 22.597  | ug/l  | 97     |
| 13) Acrolein                  | 3.76 | 56   | 19607    | 116.035 | ug/l  | 98     |
| 14) Allyl chloride            | 4.52 | 41   | 83555    | 22.334  | ug/l  | 99     |
| 15) Acrylonitrile             | 5.22 | 53   | 75369    | 111.018 | ug/l  | 100    |
| 16) Acetone                   | 3.99 | 43   | 65425    | 111.311 | ug/l  | 95     |
| 17) Carbon Disulfide          | 4.23 | 76   | 147042   | 22.287  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.52 | 43   | 39285    | 21.667  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.27 | 73   | 131377   | 21.388  | ug/l  | 95     |
| 20) Methylene Chloride        | 4.76 | 84   | 67850    | 23.292  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.27 | 96   | 53215    | 21.838  | ug/l  | 99     |
| 22) Diisopropyl ether         | 6.16 | 45   | 169984   | 21.397  | ug/l  | 95     |
| 23) Vinyl Acetate             | 6.11 | 43   | 560335   | 108.646 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 6.07 | 63   | 91512    | 21.854  | ug/l  | 97     |
| 25) 2-Butanone                | 7.03 | 43   | 101783   | 108.766 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 7.03 | 77   | 81423    | 21.830  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 7.03 | 96   | 59274    | 21.765  | ug/l  | 100    |
| 28) Bromochloromethane        | 7.38 | 49   | 32071    | 18.572  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 7.39 | 42   | 67223    | 110.416 | ug/l  | 99     |
| 30) Chloroform                | 7.55 | 83   | 87446    | 21.306  | ug/l  | 99     |
| 31) Cyclohexane               | 7.82 | 56   | 95227    | 22.905  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 7.74 | 97   | 77337    | 22.316  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 7.96 | 75   | 74740    | 22.843  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.11 | 43   | 45030    | 22.526  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 7.94 | 117  | 66877    | 22.935  | ug/l  | 98     |

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Quant Time: Jan 29 15:28:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.21  | 83   | 98295    | 23.452  | ug/l   | 100      |
| 40) Benzene                    | 8.19  | 78   | 217729   | 22.194  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.35  | 41   | 17484m   | 16.949  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.27  | 62   | 59904    | 21.853  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.30  | 43   | 87091    | 22.406  | ug/l   | 99       |
| 44) Trichloroethene            | 8.96  | 130  | 54944    | 21.825  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.24  | 63   | 55047    | 22.196  | ug/l   | 97       |
| 46) Dibromomethane             | 9.33  | 93   | 28514    | 21.417  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.52  | 83   | 69532    | 21.847  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.31  | 41   | 38557    | 21.820  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.32  | 88   | 8244     | 439.086 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43   | 220155   | 109.980 | ug/l   | 100      |
| 52) Toluene                    | 10.26 | 92   | 136568   | 21.960  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.48 | 75   | 77036    | 21.837  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 88881    | 21.951  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 43144    | 21.955  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 64635    | 21.762  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 75592    | 22.082  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 113663   | 110.592 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.85 | 43   | 158820   | 113.966 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.00 | 129  | 47556    | 21.637  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 41089    | 22.118  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.73 | 164  | 43638    | 22.115  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.53 | 112  | 141895   | 21.792  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 49279    | 22.176  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.61 | 91   | 267009   | 22.251  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.71 | 106  | 200039   | 44.634  | ug/l   | 100      |
| 69) o-Xylene                   | 12.04 | 106  | 94763    | 21.979  | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 166449   | 22.003  | ug/l   | 99       |
| 71) Bromoform                  | 12.22 | 173  | 27828    | 20.979  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.34 | 105  | 257940   | 21.988  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.16 | 43   | 82406    | 21.460  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 54310    | 21.617  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 37297m   | 20.820  | ug/l   |          |
| 77) Bromobenzene               | 12.62 | 156  | 56426    | 21.717  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.68 | 91   | 315404   | 22.338  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 176995   | 21.942  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 215405   | 21.998  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 20192    | 21.330  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 187112   | 21.716  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 180680   | 21.890  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 218036   | 22.179  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.27 | 105  | 266570   | 22.731  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 235566   | 22.794  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 111122   | 22.206  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 111521   | 21.949  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 239095   | 22.988  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.97 | 117  | 44142    | 22.534  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 100286   | 21.731  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 9880     | 22.790  | ug/l   | 94       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 67979    | 21.947 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 34152    | 22.645 | ug/l  | 99       |
| 95) Naphthalene            | 15.25 | 128  | 158945   | 22.442 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.44 | 180  | 60538    | 22.281 | ug/l  | 99       |

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

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