

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF021419\  
 Data File : VF061635.D  
 Acq On : 14 Feb 2019 12:41  
 Operator : VA/AP  
 Sample : VF0214SBS01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0214SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 2/18/2019 12:11:36 AM

Quant Time: Feb 15 01:19:54 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M

Quant Title : SW846 8260

QLast Update : Thu Feb 14 03:27:56 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.86  | 168  | 296590   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 470630   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 411499   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152  | 229592   | 50.00 | ug/l  | -0.02    |

#### System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 4.84   | 65  | 123439   | 56.76 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.52% |       |
| 35) Dibromofluoromethane  | 4.10   | 113 | 185302   | 53.02 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.04% |       |
| 50) Toluene-d8            | 7.54   | 98  | 529699   | 52.72 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.44% |       |
| 62) 4-Bromofluorobenzene  | 11.41  | 95  | 210958   | 51.89 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.78% |       |

#### Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85  | 81082   | 23.805  | ug/l   | 99     |
| 3) Chloromethane              | 1.10 | 50  | 84836   | 23.739  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.14 | 62  | 80402   | 24.202  | ug/l   | 91     |
| 5) Bromomethane               | 1.33 | 94  | 52037   | 22.759  | ug/l   | 86     |
| 6) Chloroethane               | 1.38 | 64  | 39704   | 24.251  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.48 | 101 | 90167   | 22.503  | ug/l   | 99     |
| 8) Diethyl Ether              | 1.63 | 74  | 22694   | 22.474  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.83 | 101 | 65525   | 22.668  | ug/l   | 89     |
| 10) Methyl Iodide             | 1.90 | 142 | 125326m | 22.697  | ug/l   |        |
| 11) Tert butyl alcohol        | 2.58 | 59  | 14332   | 113.862 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 1.80 | 96  | 59322   | 23.341  | ug/l   | 97     |
| 13) Acrolein                  | 2.00 | 56  | 21451   | 135.596 | ug/l   | 92     |
| 14) Allyl chloride            | 2.09 | 41  | 79524   | 25.499  | ug/l   | 98     |
| 15) Acrylonitrile             | 2.94 | 53  | 50046   | 112.092 | ug/l   | 99     |
| 16) Acetone                   | 2.24 | 43  | 54999   | 117.861 | ug/l   | 91     |
| 17) Carbon Disulfide          | 1.82 | 76  | 187565  | 23.479  | ug/l   | 97     |
| 18) Methyl Acetate            | 2.34 | 43  | 23773   | 22.614  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 2.43 | 73  | 98080   | 22.581  | ug/l   | 94     |
| 20) Methylene Chloride        | 2.18 | 84  | 68607m  | 26.239  | ug/l   |        |
| 21) trans-1,2-Dichloroethene  | 2.31 | 96  | 59866   | 21.669  | ug/l   | 96     |
| 22) Diisopropyl ether         | 2.80 | 45  | 173677  | 23.200  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.19 | 43  | 426061  | 116.523 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 2.87 | 63  | 102957  | 22.726  | ug/l   | 99     |
| 25) 2-Butanone                | 4.33 | 43  | 115835  | 113.642 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 3.60 | 77  | 44075   | 22.968  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 3.47 | 96  | 83355   | 22.986  | ug/l   | 100    |
| 28) Bromochloromethane        | 3.71 | 49  | 48631   | 22.372  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 4.07 | 42  | 50925   | 109.923 | ug/l   | 99     |
| 30) Chloroform                | 3.86 | 83  | 110776  | 21.501  | ug/l   | 98     |
| 31) Cyclohexane               | 3.69 | 56  | 109573  | 22.342  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 4.09 | 97  | 77941   | 23.094  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.27 | 75  | 95831   | 20.555  | ug/l   | 90     |
| 37) Ethyl Acetate             | 4.10 | 43  | 44894   | 20.732  | ug/l # | 82     |
| 38) Carbon Tetrachloride      | 3.99 | 117 | 69904   | 21.714  | ug/l   | 92     |

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Quant Time: Feb 15 01:19:54 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M

Quant Title : SW846 8260

QLast Update : Thu Feb 14 03:27:56 2019

Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.44  | 83   | 122231   | 22.168  | ug/l   | 97       |
| 40) Benzene                    | 4.63  | 78   | 255806   | 20.977  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.74  | 41   | 23754    | 21.450  | ug/l # | 93       |
| 42) 1,2-Dichloroethane         | 4.94  | 62   | 59193    | 20.292  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.95  | 43   | 52326    | 20.414  | ug/l # | 89       |
| 44) Trichloroethene            | 5.49  | 130  | 83087    | 21.070  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 6.23  | 63   | 63555    | 21.561  | ug/l   | 96       |
| 46) Dibromomethane             | 6.09  | 93   | 37017    | 20.396  | ug/l   | 88       |
| 47) Bromodichloromethane       | 6.38  | 83   | 81692    | 20.555  | ug/l   | 99       |
| 48) Methyl methacrylate        | 6.72  | 41   | 32324    | 20.955  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 6.71  | 88   | 5633     | 388.469 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.25  | 43   | 196975   | 107.548 | ug/l   | 100      |
| 52) Toluene                    | 7.62  | 92   | 151618   | 20.500  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 8.27  | 75   | 72131    | 21.807  | ug/l   | 90       |
| 54) cis-1,3-Dichloropropene    | 7.30  | 75   | 96917    | 21.997  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 8.48  | 97   | 45862    | 21.106  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 8.62  | 69   | 52722    | 21.792  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 8.85  | 76   | 74656    | 20.584  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 7.29  | 63   | 44936    | 107.653 | ug/l   | 95       |
| 59) 2-Hexanone                 | 9.49  | 43   | 142879   | 111.290 | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.71  | 129  | 62541    | 20.678  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 8.98  | 107  | 49231    | 20.888  | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.15  | 164  | 65679    | 19.527  | ug/l   | 94       |
| 65) Chlorobenzene              | 9.79  | 112  | 171341   | 20.519  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.92  | 131  | 68535    | 20.946  | ug/l   | 97       |
| 67) Ethyl Benzene              | 9.89  | 91   | 294136   | 21.182  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.13 | 106  | 231037   | 43.473  | ug/l   | 98       |
| 69) o-Xylene                   | 10.71 | 106  | 123977   | 21.862  | ug/l   | 99       |
| 70) Styrene                    | 10.78 | 104  | 175429   | 21.867  | ug/l   | 98       |
| 71) Bromoform                  | 10.77 | 173  | 37420    | 21.061  | ug/l   | 99       |
| 73) Isopropylbenzene           | 11.12 | 105  | 340212   | 20.812  | ug/l   | 98       |
| 74) N-amyl acetate             | 11.37 | 43   | 84930    | 21.646  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.69 | 83   | 60432    | 20.636  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.79 | 75   | 39988    | 20.084  | ug/l   | 96       |
| 77) Bromobenzene               | 11.49 | 156  | 85800    | 21.246  | ug/l   | 95       |
| 78) n-propylbenzene            | 11.59 | 91   | 393954   | 21.002  | ug/l   | 95       |
| 79) 2-Chlorotoluene            | 11.72 | 91   | 219041   | 20.850  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.81 | 105  | 286216   | 21.907  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-buten | 11.86 | 75   | 19610m   | 20.544  | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.89 | 91   | 224729   | 20.610  | ug/l   | 95       |
| 83) tert-Butylbenzene          | 12.13 | 119  | 306422   | 21.175  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.20 | 105  | 283191   | 21.818  | ug/l   | 95       |
| 85) sec-Butylbenzene           | 12.30 | 105  | 395864   | 21.155  | ug/l   | 94       |
| 86) p-Isopropyltoluene         | 12.46 | 119  | 354329   | 22.562  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.47 | 146  | 168460   | 21.398  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.56 | 146  | 161872   | 21.379  | ug/l   | 97       |
| 89) n-Butylbenzene             | 12.84 | 91   | 330876   | 22.312  | ug/l   | 96       |
| 90) Hexachloroethane           | 12.91 | 117  | 76672    | 20.992  | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene        | 12.94 | 146  | 153887   | 20.551  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.64 | 75   | 9870     | 21.257  | ug/l   | 90       |

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Quant Title : SW846 8260  
QLast Update : Thu Feb 14 03:27:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.20 | 180  | 115519   | 21.522 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.19 | 225  | 73143    | 22.065 | ug/l  | 93       |
| 95) Naphthalene            | 14.46 | 128  | 197168   | 20.996 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.60 | 180  | 105592   | 21.434 | ug/l  | 98       |

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

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