

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\  
 Data File : VX009605.D  
 Acq On : 16 May 2019 14:24  
 Operator : JC/SP  
 Sample : VX0516MBS01  
 Misc : 5.00µg/10mL/100µL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0516MBS01

Manual Integrations  
 APPROVED

MMDadoda  
 5/17/2019 1:09:25 PM

Quant Time: May 17 02:10:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 162220   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 260351   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 236890   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 117214   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 108110   | 48.82 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.64% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 80099    | 48.94 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.88% |          |
| 50) Toluene-d8              | 8.71  | 98   | 316940   | 47.97 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.94% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 117061   | 48.76 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.52% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 26408    | 17.666  | ug/l  | 98     |
| 3) Chloromethane              | 1.32 | 50   | 41882    | 20.521  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.41 | 62   | 39956    | 20.077  | ug/l  | 97     |
| 5) Bromomethane               | 1.64 | 94   | 25507    | 21.354  | ug/l  | 99     |
| 6) Chloroethane               | 1.72 | 64   | 26775    | 20.955  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 50267    | 20.779  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.19 | 74   | 24363    | 21.261  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 30330    | 19.965  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 34831    | 22.514  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.05 | 59   | 57087    | 111.367 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 31373    | 20.612  | ug/l  | 97     |
| 13) Acrolein                  | 2.29 | 56   | 28071    | 60.468  | ug/l  | 98     |
| 14) Allyl chloride            | 2.73 | 41   | 74881    | 20.187  | ug/l  | 98     |
| 15) Acrylonitrile             | 3.14 | 53   | 134965   | 107.683 | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 122597   | 103.101 | ug/l  | 97     |
| 17) Carbon Disulfide          | 2.57 | 76   | 80827    | 18.914  | ug/l  | 100    |
| 18) Methyl Acetate            | 2.78 | 43   | 60704    | 21.466  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 124881   | 21.128  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.85 | 84   | 38751    | 20.127  | ug/l  | 93     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 34088    | 20.650  | ug/l  | 95     |
| 22) Diisopropyl ether         | 3.85 | 45   | 152959   | 21.442  | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.82 | 43   | 671687   | 109.959 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 72910    | 20.719  | ug/l  | 100    |
| 25) 2-Butanone                | 4.67 | 43   | 204002   | 110.401 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 49681    | 18.967  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 40400    | 20.504  | ug/l  | 100    |
| 28) Bromochloromethane        | 5.01 | 49   | 27223    | 17.432  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 5.13 | 42   | 134476   | 113.094 | ug/l  | 99     |
| 30) Chloroform                | 5.21 | 83   | 67494    | 21.206  | ug/l  | 100    |
| 31) Cyclohexane               | 5.58 | 56   | 67745    | 20.692  | ug/l  | 94     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 54681    | 20.638  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 48403    | 20.006  | ug/l  | 97     |
| 37) Ethyl Acetate             | 4.84 | 43   | 74344    | 22.054  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 44449    | 20.220  | ug/l  | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\  
 Data File : VX009605.D  
 Acq On : 16 May 2019 14:24  
 Operator : JC/SP  
 Sample : VX0516MBS01  
 Misc : 5.00µl/10mL/100µL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0516MBS01

Manual Integrations  
 APPROVED

MMDadoda  
 5/17/2019 1:09:25 PM

Quant Time: May 17 02:10:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 60505    | 20.363  | ug/l   | 99       |
| 40) Benzene                    | 6.14  | 78   | 160074   | 21.378  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 42353    | 21.106  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 58701    | 21.854  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.45  | 43   | 117455   | 21.783  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 37109    | 20.500  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 45375    | 21.401  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 25668    | 20.847  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 50805    | 20.686  | ug/l   | 95       |
| 48) Methyl methacrylate        | 7.77  | 41   | 60207    | 22.506  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 23736    | 437.510 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 395357   | 112.176 | ug/l   | 100      |
| 52) Toluene                    | 8.79  | 92   | 96156    | 21.125  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 56395    | 20.338  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 62317    | 20.304  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 40286    | 21.695  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 71485    | 21.566  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 69361    | 21.226  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 162080   | 92.171  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 310419   | 112.144 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.58  | 129  | 36755    | 20.266  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 40386    | 21.545  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 35030    | 21.557  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 100824   | 21.276  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 35806    | 20.841  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 184021   | 21.100  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 134042   | 42.058  | ug/l   | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 65804    | 20.927  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 114403   | 20.932  | ug/l   | 98       |
| 71) Bromoform                  | 10.85 | 173  | 27218    | 19.495  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 175586   | 20.600  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 104821   | 21.093  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 66512    | 20.932  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 58234m   | 21.418  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 43343    | 20.487  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 198898   | 20.432  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 120845   | 20.122  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 147891   | 20.606  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 20518    | 19.308  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 139208   | 20.518  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 141203   | 20.225  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 150468   | 20.887  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 170526   | 20.602  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 154513   | 20.764  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 77830    | 20.637  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 77935    | 20.497  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 137028   | 20.374  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 24208    | 19.095  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 79020    | 20.571  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 15433    | 21.651  | ug/l   | 98       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\  
Data File : VX009605.D  
Acq On : 16 May 2019 14:24  
Operator : JC/SP  
Sample : VX0516MBS01  
Misc : 5.00µ/10mL/100uL/5.0mL/MSVOA\_X/MEOH  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0516MBS01

Manual Integrations  
APPROVED

MMDadoda  
5/17/2019 1:09:25 PM

Quant Time: May 17 02:10:49 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 54449    | 20.728 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 28022    | 20.889 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 184025   | 21.533 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 57231    | 21.493 | ug/l  | 99       |

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

