

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX103119\  
 Data File : VX013292.D  
 Acq On : 31 Oct 2019 16:18  
 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 11/4/2019 3:40:54 PM

Quant Time: Nov 02 06:04:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 06:36:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 949974   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1418632  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 1256125  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 602990   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |  |
|---------------------------|--------|-----|----------|------|-------|--|
| 33) 1,2-Dichloroethane-d4 | 0.00   | 65  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 35) Dibromofluoromethane  | 0.00   | 113 | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 50) Toluene-d8            | 0.00   | 98  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 62) 4-Bromofluorobenzene  | 0.00   | 95  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |

## Target Compounds

|                               |      |     |        |       |        | Qvalue |
|-------------------------------|------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 9448   | 1.039 | ug/l   | 95     |
| 3) Chloromethane              | 1.31 | 50  | 10234  | 1.098 | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 11832  | 1.212 | ug/l   | 99     |
| 6) Chloroethane               | 1.72 | 64  | 10829  | 1.776 | ug/l # | 87     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 16474  | 1.085 | ug/l   | 97     |
| 8) Diethyl Ether              | 2.18 | 74  | 6939   | 1.252 | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 8419   | 0.971 | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 7483   | 0.878 | ug/l   | 98     |
| 14) Allyl chloride            | 2.71 | 41  | 13954  | 1.079 | ug/l # | 94     |
| 15) Acrylonitrile             | 3.13 | 53  | 21631  | 4.366 | ug/l   | 94     |
| 16) Acetone                   | 2.43 | 43  | 26089  | 5.461 | ug/l # | 88     |
| 17) Carbon Disulfide          | 2.56 | 76  | 20395  | 0.926 | ug/l # | 92     |
| 18) Methyl Acetate            | 2.76 | 43  | 13934  | 1.212 | ug/l # | 78     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 24464  | 0.877 | ug/l   | 93     |
| 20) Methylene Chloride        | 2.84 | 84  | 11188  | 1.141 | ug/l # | 96     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 8520   | 0.937 | ug/l   | 91     |
| 22) Diisopropyl ether         | 3.84 | 45  | 25222  | 0.932 | ug/l # | 61     |
| 23) Vinyl Acetate             | 3.81 | 43  | 109170 | 4.789 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.68 | 63  | 15708  | 1.012 | ug/l   | 97     |
| 25) 2-Butanone                | 4.67 | 43  | 33349  | 4.827 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 12551  | 0.993 | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 9300   | 0.881 | ug/l   | 82     |
| 28) Bromochloromethane        | 5.00 | 49  | 4936   | 0.726 | ug/l # | 93     |
| 29) Tetrahydrofuran           | 5.13 | 42  | 18964  | 4.328 | ug/l   | 96     |
| 30) Chloroform                | 5.20 | 83  | 15166  | 0.916 | ug/l   | 89     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 13687  | 0.962 | ug/l # | 52     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 10017  | 0.845 | ug/l   | 91     |
| 37) Ethyl Acetate             | 4.83 | 43  | 13425  | 1.073 | ug/l # | 93     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 9939   | 0.815 | ug/l   | 97     |
| 39) Methylcyclohexane         | 7.45 | 83  | 14287  | 0.942 | ug/l   | 96     |
| 40) Benzene                   | 6.13 | 78  | 35773  | 0.988 | ug/l   | 94     |
| 41) Methacrylonitrile         | 5.03 | 41  | 7260m  | 1.013 | ug/l   |        |
| 42) 1,2-Dichloroethane        | 6.19 | 62  | 12038  | 0.940 | ug/l   | 92     |
| 43) Isopropyl Acetate         | 6.44 | 43  | 18712  | 0.912 | ug/l # | 87     |

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 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
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MMDadoda  
 11/4/2019 3:40:54 PM

Quant Time: Nov 02 06:04:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 06:36:48 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 44) Trichloroethene            | 7.20  | 130  | 10708    | 1.012  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 8348     | 0.902  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 6106     | 0.934  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.89  | 83   | 10290    | 0.873  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 8518     | 0.843  | ug/l # | 78       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 5081     | 18.798 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 60893    | 4.578  | ug/l   | 97       |
| 52) Toluene                    | 8.78  | 92   | 20702    | 0.877  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 10206    | 0.802  | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 12477    | 0.885  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 8421     | 0.864  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 10601    | 0.737  | ug/l # | 90       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 15077    | 0.964  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 25669    | 3.776  | ug/l   | 94       |
| 59) 2-Hexanone                 | 9.49  | 43   | 43378    | 4.214  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 7736     | 0.787  | ug/l   | 93       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 8893     | 0.862  | ug/l   | 97       |
| 64) Tetrachloroethene          | 9.33  | 164  | 9594     | 0.981  | ug/l   | 92       |
| 65) Chlorobenzene              | 10.13 | 112  | 24435    | 0.944  | ug/l   | 92       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 7840     | 0.861  | ug/l # | 61       |
| 67) Ethyl Benzene              | 10.25 | 91   | 39632    | 0.898  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 27920    | 1.650  | ug/l   | 98       |
| 69) o-Xylene                   | 10.70 | 106  | 14483    | 0.880  | ug/l   | 93       |
| 70) Styrene                    | 10.71 | 104  | 21102    | 0.768  | ug/l   | 97       |
| 71) Bromoform                  | 10.85 | 173  | 5308     | 0.728  | ug/l # | 86       |
| 73) Isopropylbenzene           | 11.01 | 105  | 36084    | 0.879  | ug/l   | 94       |
| 74) N-amyl acetate             | 10.89 | 43   | 13757    | 0.844  | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 13349    | 0.980  | ug/l # | 96       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 11964m   | 1.083  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 10213    | 0.908  | ug/l   | 92       |
| 78) n-propylbenzene            | 11.35 | 91   | 37842    | 0.833  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 24451    | 0.897  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 28695    | 0.839  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 28891    | 0.911  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 27083    | 0.800  | ug/l   | 88       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 28167    | 0.816  | ug/l   | 95       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 34011    | 0.865  | ug/l   | 95       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 28970    | 0.796  | ug/l   | 87       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 17766    | 0.909  | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 19670m   | 0.984  | ug/l   |          |
| 89) n-Butylbenzene             | 12.39 | 91   | 25243    | 0.809  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 5148     | 0.881  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 17223    | 0.889  | ug/l   | 92       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 3981     | 1.370  | ug/l   | 75       |
| 93) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 11812    | 0.896  | ug/l   | 97       |
| 94) Hexachlorobutadiene        | 13.78 | 225  | 6259     | 0.961  | ug/l   | 95       |
| 95) Naphthalene                | 13.83 | 128  | 32155    | 0.811  | ug/l # | 94       |
| 96) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 11197    | 0.851  | ug/l   | 98       |

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Operator : JC/SP  
Sample : VSTDICC001  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001

Manual Integrations  
APPROVED

MMDadoda  
11/4/2019 3:40:54 PM

Quant Time: Nov 02 06:04:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 02 06:36:48 2019  
Response via : Initial Calibration

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

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

