

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091018\  
 Data File : VN051080.D  
 Acq On : 10 Sep 2018 16:10  
 Operator : MD\SY  
 Sample : VN0910MBS01  
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0910MBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/11/2018 9:40:54 AM

Quant Time: Sep 11 03:51:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:27:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 672153   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 971298   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 865014   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 415983   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 383422   | 51.26 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.52% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 380066   | 52.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.14% |      |
| 50) Toluene-d8            | 10.09  | 98  | 1406272  | 50.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.56% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 451566   | 49.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.58%  |      |

## Target Compounds

|                               |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 118075  | 18.22  | ug/l   | 96     |
| 3) Chloromethane              | 2.06 | 50  | 168924  | 19.85  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.18 | 62  | 169980  | 19.10  | ug/l   | 99     |
| 5) Bromomethane               | 2.56 | 94  | 98119   | 18.93  | ug/l   | 99     |
| 6) Chloroethane               | 2.70 | 64  | 99596   | 18.14  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 223187  | 18.93  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.41 | 74  | 84040   | 19.38  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101 | 143958  | 18.94  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.95 | 142 | 116882  | 20.22  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.79 | 59  | 52346   | 91.62  | ug/l # | 84     |
| 12) 1,1-Dichloroethene        | 3.73 | 96  | 132591  | 18.49  | ug/l   | 96     |
| 13) Acrolein                  | 3.61 | 56  | 72034   | 117.54 | ug/l   | 99     |
| 14) Allyl chloride            | 4.32 | 41  | 203680  | 18.65  | ug/l   | 100    |
| 15) Acrylonitrile             | 5.00 | 53  | 245259  | 96.88  | ug/l   | 100    |
| 16) Acetone                   | 3.82 | 43  | 169245  | 87.72  | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.05 | 76  | 401049  | 19.05  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.33 | 43  | 111317  | 18.58  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 366401  | 19.33  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.55 | 84  | 155591  | 18.83  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96  | 141609  | 18.21  | ug/l   | 94     |
| 22) Diisopropyl ether         | 5.95 | 45  | 435314  | 20.08  | ug/l   | 100    |
| 23) Vinyl Acetate             | 5.90 | 43  | 1434061 | 97.73  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 261785  | 19.03  | ug/l   | 100    |
| 25) 2-Butanone                | 6.84 | 43  | 268516  | 91.30  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 201429  | 17.89  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 160129  | 18.77  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.20 | 49  | 143921  | 23.50  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.22 | 42  | 184471  | 100.45 | ug/l   | 99     |
| 30) Chloroform                | 7.37 | 83  | 264060  | 19.29  | ug/l   | 99     |
| 31) Cyclohexane               | 7.65 | 56  | 237447  | 19.22  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 226109  | 19.39  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 197728  | 18.54  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.93 | 43  | 125826  | 20.37  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.77 | 117 | 199960  | 19.05  | ug/l   | 98     |

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 Sample : VN0910MBS01  
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0910MBS01

Manual Integrations  
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Quant Time: Sep 11 03:51:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:27:09 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 215490   | 18.31  | µg/l   | 98       |
| 40) Benzene                    | 8.04  | 78   | 620009   | 19.29  | µg/l   | 100      |
| 41) Methacrylonitrile          | 7.18  | 41   | 58390    | 18.32  | µg/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 181205   | 19.35  | µg/l   | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 213488   | 19.59  | µg/l   | 99       |
| 44) Trichloroethene            | 8.84  | 130  | 163279   | 18.58  | µg/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 160584   | 19.34  | µg/l   | 100      |
| 46) Dibromomethane             | 9.21  | 93   | 96024    | 18.95  | µg/l   | 99       |
| 47) Bromodichloromethane       | 9.40  | 83   | 198551   | 19.27  | µg/l   | 97       |
| 48) Methyl methacrylate        | 9.20  | 41   | 102598   | 19.32  | µg/l   | 99       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 32238    | 387.11 | µg/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 606984   | 100.72 | µg/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 380464   | 19.42  | µg/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 190853   | 18.51  | µg/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 227735   | 18.84  | µg/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 139364   | 19.58  | µg/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 167864   | 19.17  | µg/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 233803   | 19.81  | µg/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 342645   | 95.36  | µg/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 388356   | 95.02  | µg/l   | 98       |
| 60) Dibromochloromethane       | 10.90 | 129  | 153178   | 19.09  | µg/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 132895   | 19.10  | µg/l   | 98       |
| 64) Tetrachloroethene          | 10.63 | 164  | 149778   | 18.98  | µg/l   | 99       |
| 65) Chlorobenzene              | 11.43 | 112  | 411410   | 18.87  | µg/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 153092   | 19.50  | µg/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 681441   | 19.30  | µg/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 535397   | 39.46  | µg/l   | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 256942   | 19.56  | µg/l   | 99       |
| 70) Styrene                    | 11.96 | 104  | 406909   | 19.97  | µg/l   | 100      |
| 71) Bromoform                  | 12.13 | 173  | 108326   | 19.60  | µg/l # | 99       |
| 73) Isopropylbenzene           | 12.25 | 105  | 668268   | 19.16  | µg/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 162483   | 18.51  | µg/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 176580   | 21.14  | µg/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 146695m  | 21.91  | µg/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 173996   | 18.57  | µg/l   | 98       |
| 78) n-propylbenzene            | 12.59 | 91   | 737374   | 19.23  | µg/l   | 100      |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 461539   | 19.26  | µg/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 548022   | 19.43  | µg/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 40103    | 18.31  | µg/l   | 96       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 450241   | 18.93  | µg/l   | 100      |
| 83) tert-Butylbenzene          | 12.99 | 119  | 472257   | 18.97  | µg/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 551297   | 19.88  | µg/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 612356   | 19.18  | µg/l   | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 527896   | 19.50  | µg/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 291102   | 18.31  | µg/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 279440   | 19.15  | µg/l   | 98       |
| 89) n-Butylbenzene             | 13.62 | 91   | 380052   | 18.04  | µg/l   | 98       |
| 90) Hexachloroethane           | 13.88 | 117  | 97315    | 19.36  | µg/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 286746   | 18.51  | µg/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 23417    | 20.05  | µg/l   | 99       |

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Quant Title : SW846 8260  
QLast Update : Tue Sep 11 02:27:09 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 111261   | 17.66 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 89905    | 18.82 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 215881   | 17.67 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 117457   | 18.40 | ug/l  | 99       |

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

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