

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091819\  
 Data File : VN058152.D  
 Acq On : 18 Sep 2019 9:21  
 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 9/20/2019 1:14:09 PM

Quant Time: Sep 19 01:54:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 01:40:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 563932   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 957566   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 823388   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 371819   | 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    | 1.83 | 85  | 4881   | 0.677 ug/l   | 99     |
| 3) Chloromethane              | 2.04 | 50  | 6118   | 0.838 ug/l # | 84     |
| 4) Vinyl Chloride             | 2.17 | 62  | 5777   | 0.749 ug/l # | 88     |
| 6) Chloroethane               | 2.69 | 64  | 4048   | 0.819 ug/l   | 94     |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 7493   | 0.763 ug/l   | 91     |
| 8) Diethyl Ether              | 3.40 | 74  | 3298   | 0.790 ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 5333   | 0.850 ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 3.71 | 96  | 4964   | 0.882 ug/l   | 86     |
| 14) Allyl chloride            | 4.29 | 41  | 7852   | 0.710 ug/l   | 88     |
| 15) Acrylonitrile             | 4.98 | 53  | 12167m | 3.403 ug/l   |        |
| 16) Acetone                   | 3.80 | 43  | 15853  | 4.511 ug/l   | 97     |
| 17) Carbon Disulfide          | 4.03 | 76  | 8342   | 0.813 ug/l   | 98     |
| 18) Methyl Acetate            | 4.31 | 43  | 8696   | 0.925 ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.02 | 73  | 17693  | 0.752 ug/l   | 93     |
| 20) Methylene Chloride        | 4.53 | 84  | 6615   | 0.866 ug/l # | 86     |
| 21) trans-1,2-Dichloroethene  | 5.02 | 96  | 5093   | 0.837 ug/l # | 72     |
| 22) Diisopropyl ether         | 5.93 | 45  | 19472  | 0.751 ug/l # | 82     |
| 23) Vinyl Acetate             | 5.88 | 43  | 65724  | 3.596 ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 5.82 | 63  | 11078m | 0.783 ug/l   |        |
| 25) 2-Butanone                | 6.82 | 43  | 17509  | 3.440 ug/l   | 92     |
| 26) 2,2-Dichloropropane       | 6.80 | 77  | 9921m  | 0.883 ug/l   |        |
| 27) cis-1,2-Dichloroethene    | 6.81 | 96  | 6087   | 0.743 ug/l   | 83     |
| 28) Bromochloromethane        | 7.17 | 49  | 5416   | 0.766 ug/l # | 92     |
| 29) Tetrahydrofuran           | 7.20 | 42  | 11660  | 3.717 ug/l   | 93     |
| 30) Chloroform                | 7.35 | 83  | 12665  | 0.853 ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 7.56 | 97  | 8175   | 0.695 ug/l # | 52     |
| 36) 1,1-Dichloropropene       | 7.78 | 75  | 8288   | 0.796 ug/l   | 97     |
| 37) Ethyl Acetate             | 6.91 | 43  | 7140m  | 0.662 ug/l   |        |
| 38) Carbon Tetrachloride      | 7.76 | 117 | 7721m  | 0.809 ug/l   |        |
| 39) Methylcyclohexane         | 9.07 | 83  | 8640   | 0.792 ug/l   | 94     |
| 40) Benzene                   | 8.03 | 78  | 23161  | 0.739 ug/l   | 98     |
| 41) Methacrylonitrile         | 7.17 | 41  | 4158m  | 0.850 ug/l   |        |
| 42) 1,2-Dichloroethane        | 8.11 | 62  | 9633   | 0.766 ug/l   | 95     |
| 43) Isopropyl Acetate         | 8.16 | 43  | 14194  | 0.782 ug/l # | 78     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 44) Trichloroethene            | 8.82  | 130  | 5241     | 0.680  | ug/l   | 83       |
| 45) 1,2-Dichloropropane        | 9.11  | 63   | 6319     | 0.691  | ug/l   | 90       |
| 46) Dibromomethane             | 9.20  | 93   | 3952     | 0.715  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.39  | 83   | 7527     | 0.684  | ug/l # | 96       |
| 48) Methyl methacrylate        | 9.19  | 41   | 5595     | 0.611  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 9.19  | 88   | 2017     | 12.968 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 34845    | 3.282  | ug/l   | 97       |
| 52) Toluene                    | 10.15 | 92   | 13905    | 0.705  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 7065     | 0.611  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.83  | 75   | 8303     | 0.650  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 5751     | 0.688  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 6919     | 0.552  | ug/l # | 84       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 10299    | 0.715  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 18497    | 3.165  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 24817    | 3.126  | ug/l   | 96       |
| 60) Dibromochloromethane       | 10.90 | 129  | 4528     | 0.584  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 5229     | 0.663  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 4566     | 0.795  | ug/l   | 91       |
| 65) Chlorobenzene              | 11.43 | 112  | 15672    | 0.773  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 4840     | 0.686  | ug/l # | 63       |
| 67) Ethyl Benzene              | 11.51 | 91   | 26963    | 0.760  | ug/l   | 91       |
| 68) m/p-Xylenes                | 11.62 | 106  | 19794    | 1.523  | ug/l   | 98       |
| 69) o-Xylene                   | 11.95 | 106  | 9269     | 0.720  | ug/l   | 95       |
| 70) Styrene                    | 11.97 | 104  | 14330    | 0.647  | ug/l   | 97       |
| 71) Bromoform                  | 12.13 | 173  | 2406     | 0.549  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.25 | 105  | 25056    | 0.899  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 7934     | 0.658  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 8089     | 0.863  | ug/l # | 95       |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 7002m    | 0.868  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 6641     | 0.951  | ug/l   | 90       |
| 78) n-propylbenzene            | 12.60 | 91   | 27662    | 0.866  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 16596    | 0.820  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 19141    | 0.812  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 17647    | 0.849  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.00 | 119  | 17446    | 0.833  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 13.05 | 105  | 19169    | 0.802  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.18 | 105  | 23157    | 0.835  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 19235    | 0.789  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 10374    | 0.813  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 11408m   | 0.878  | ug/l   |          |
| 89) n-Butylbenzene             | 13.62 | 91   | 18444    | 0.798  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.88 | 117  | 2556     | 0.701  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 10487    | 0.820  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.28 | 75   | 1155     | 0.743  | ug/l # | 22       |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 6046     | 0.716  | ug/l   | 98       |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 3061     | 0.845  | ug/l   | 97       |
| 95) Naphthalene                | 15.13 | 128  | 14966    | 0.619  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 5615     | 0.680  | ug/l   | 96       |

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| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

