

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041720\  
 Data File : VX015736.D  
 Acq On : 17 Apr 2020 14:31  
 Operator : JC/SP  
 Sample : VX0417WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0417WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/20/2020 10:06:23 AM

Quant Time: Apr 20 03:27:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 26 02:31:53 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.99  | 128  | 166753   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.84  | 114  | 924624   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 847171   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 372235   | 28.57    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 95.23%  |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 428323   | 29.54    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 98.47%  |
| 63) Toluene-d8            | 8.70   | 98    | 1081994  | 30.06    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.20% |

## Target Compounds

|                               |      |     |        |         | Ovalue     |
|-------------------------------|------|-----|--------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 129703 | 16.288  | ug/l 95    |
| 3) Chloromethane              | 1.31 | 50  | 180505 | 18.366  | ug/l 100   |
| 4) Vinyl Chloride             | 1.39 | 62  | 180521 | 19.094  | ug/l 100   |
| 5) Bromomethane               | 1.63 | 94  | 139668 | 27.750  | ug/l 94    |
| 6) Chloroethane               | 1.72 | 64  | 115982 | 19.663  | ug/l 99    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 254144 | 18.809  | ug/l 95    |
| 8) Diethyl Ether              | 2.17 | 74  | 107723 | 20.722  | ug/l 94    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 172470 | 19.294  | ug/l 99    |
| 10) 1,1-Dichloroethene        | 2.36 | 96  | 167660 | 18.465  | ug/l 99    |
| 11) Methyl Iodide             | 2.49 | 142 | 149309 | 12.374  | ug/l 99    |
| 12) Methyl Acetate            | 2.75 | 43  | 265184 | 19.959  | ug/l 97    |
| 13) Acrolein                  | 2.27 | 56  | 177021 | 102.419 | ug/l 95    |
| 14) Acrylonitrile             | 3.12 | 53  | 570781 | 100.347 | ug/l 99    |
| 15) Acetone                   | 2.42 | 58  | 147553 | 102.017 | ug/l 89    |
| 16) Carbon Disulfide          | 2.55 | 76  | 460748 | 17.358  | ug/l 100   |
| 17) Allyl chloride            | 2.71 | 41  | 370984 | 18.097  | ug/l 98    |
| 18) Methylene Chloride        | 2.84 | 84  | 201931 | 19.809  | ug/l 95    |
| 19) trans-1,2-Dichloroethene  | 3.14 | 96  | 185164 | 18.852  | ug/l 99    |
| 20) Diisopropyl ether         | 3.83 | 45  | 707742 | 19.249  | ug/l 98    |
| 21) 1,1-Dichloroethane        | 3.67 | 63  | 355472 | 18.940  | ug/l 99    |
| 22) cis-1,2-Dichloroethene    | 4.56 | 96  | 220723 | 19.507  | ug/l 96    |
| 23) tert-Butyl Alcohol        | 3.01 | 59  | 258137 | 92.263  | ug/l 100   |
| 24) Methyl tert-Butyl Ether   | 3.17 | 73  | 648752 | 19.244  | ug/l 97    |
| 25) Chloroform                | 5.18 | 83  | 356882 | 19.237  | ug/l 99    |
| 26) Cyclohexane               | 5.55 | 56  | 323788 | 18.056  | ug/l # 100 |
| 29) 1,1-Dichloropropene       | 5.78 | 75  | 268491 | 19.328  | ug/l 100   |
| 30) 2-Butanone                | 4.64 | 43  | 836630 | 100.466 | ug/l 100   |
| 31) 2,2-Dichloropropane       | 4.55 | 77  | 313002 | 18.724  | ug/l 100   |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97  | 317755 | 18.748  | ug/l 99    |
| 33) Carbon Tetrachloride      | 5.76 | 117 | 276131 | 17.878  | ug/l 98    |
| 34) Benzene                   | 6.12 | 78  | 792500 | 19.794  | ug/l 95    |
| 35) Methacrylonitrile         | 5.01 | 41  | 184253 | 19.511  | ug/l 96    |
| 36) 1,2-Dichloroethane        | 6.17 | 62  | 300469 | 19.422  | ug/l 97    |
| 37) Trichloroethene           | 7.20 | 130 | 224508 | 19.915  | ug/l 91    |
| 38) Methylcyclohexane         | 7.44 | 83  | 313092 | 18.385  | ug/l 99    |
| 39) 1,2-Dichloropropane       | 7.49 | 63  | 209699 | 19.500  | ug/l 95    |
| 40) Dibromomethane            | 7.64 | 93  | 138629 | 19.367  | ug/l 98    |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Bromodichloromethane       | 7.88  | 83   | 278539   | 17.905  | ug/l  | 98       |
| 42) Vinyl Acetate              | 3.79  | 43   | 3146943  | 99.735  | ug/l  | 100      |
| 43) Ethyl Acetate              | 4.80  | 43   | 326324   | 18.015  | ug/l  | 97       |
| 44) Isopropyl Acetate          | 6.42  | 43   | 535495   | 18.369  | ug/l  | 97       |
| 45) 1,4-Dioxane                | 7.72  | 88   | 110191   | 410.309 | ug/l  | 95       |
| 46) Methyl methacrylate        | 7.75  | 41   | 271728   | 18.679  | ug/l  | 98       |
| 47) n-amyl Acetate             | 10.88 | 43   | 456313   | 18.154  | ug/l  | 97       |
| 48) t-1,3-Dichloropropene      | 9.03  | 75   | 316096   | 17.602  | ug/l  | 97       |
| 49) cis-1,3-Dichloropropene    | 8.42  | 75   | 346110   | 18.672  | ug/l  | 96       |
| 50) 1,1,2-Trichloroethane      | 9.20  | 97   | 201564   | 19.622  | ug/l  | 96       |
| 51) Ethyl methacrylate         | 9.16  | 69   | 334465   | 18.932  | ug/l  | 98       |
| 52) 1,3-Dichloropropane        | 9.36  | 76   | 350271   | 19.742  | ug/l  | 99       |
| 53) Dibromochloromethane       | 9.57  | 129  | 224018   | 17.691  | ug/l  | 99       |
| 54) 1,2-Dibromoethane          | 9.65  | 107  | 212347   | 19.265  | ug/l  | 98       |
| 55) 2-Chloroethyl vinyl ether  | 8.29  | 63   | 792710   | 95.002  | ug/l  | 100      |
| 56) Bromoform                  | 10.84 | 173  | 176972   | 16.997  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1640019  | 101.150 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 1226873  | 99.464  | ug/l  | 98       |
| 61) Tetrachloroethene          | 9.32  | 164  | 213660   | 19.621  | ug/l  | 95       |
| 62) Toluene                    | 8.77  | 91   | 853964   | 19.901  | ug/l  | 99       |
| 64) Chlorobenzene              | 10.12 | 112  | 557456   | 20.206  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 208939   | 18.533  | ug/l  | 98       |
| 66) Ethyl Benzene              | 10.24 | 91   | 970247   | 19.793  | ug/l  | 99       |
| 67) m/p-Xylenes                | 10.34 | 106  | 732748   | 39.493  | ug/l  | 99       |
| 68) o-Xylene                   | 10.68 | 106  | 356568   | 19.662  | ug/l  | 97       |
| 69) Styrene                    | 10.70 | 104  | 624478   | 19.764  | ug/l  | 98       |
| 70) Isopropylbenzene           | 11.00 | 105  | 946984   | 19.697  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 305756   | 19.622  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane     | 11.28 | 75   | 282175m  | 19.353  | ug/l  |          |
| 73) Bromobenzene               | 11.24 | 156  | 251698   | 19.503  | ug/l  | 97       |
| 74) n-propylbenzene            | 11.34 | 91   | 1086874  | 19.710  | ug/l  | 100      |
| 75) 2-Chlorotoluene            | 11.40 | 91   | 659918   | 19.676  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 809063   | 19.596  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene    | 11.06 | 75   | 99450    | 15.828  | ug/l  | 96       |
| 78) 4-Chlorotoluene            | 11.49 | 91   | 769319   | 19.828  | ug/l  | 99       |
| 79) tert-butylbenzene          | 11.76 | 119  | 799799   | 19.383  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 814215   | 19.468  | ug/l  | 98       |
| 81) sec-Butylbenzene           | 11.93 | 105  | 919094   | 19.417  | ug/l  | 100      |
| 82) p-Isopropyltoluene         | 12.05 | 119  | 888068   | 19.906  | ug/l  | 98       |
| 83) 1,3-Dichlorobenzene        | 12.01 | 146  | 464543   | 20.018  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene        | 12.09 | 146  | 455155   | 19.654  | ug/l  | 98       |
| 85) n-Butylbenzene             | 12.37 | 91   | 763797   | 19.208  | ug/l  | 99       |
| 86) Hexachloroethane           | 12.58 | 117  | 140757   | 16.324  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene        | 12.38 | 146  | 437024   | 19.303  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 71890    | 17.516  | ug/l  | 96       |
| 89) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 347824   | 19.072  | ug/l  | 98       |
| 90) Hexachlorobutadiene        | 13.77 | 225  | 169491   | 17.642  | ug/l  | 98       |
| 91) Naphthalene                | 13.82 | 128  | 1045762  | 19.802  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 336363   | 18.566  | ug/l  | 98       |

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ALS Vial : 8 Sample Multiplier: 1

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

