Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041321\
Data File : VN066584.D
Acq On : 13 Apr 2021 17:53
Operator : JC/MD
Sample : VN0413WBSD01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0413WBSD01

**Manual Integrations APPROVED**
MMDadoda
4/15/2021 7:48:18 PM

Quant Time: Apr 15 19:31:26 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 15 19:20:03 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 7.099 | 128 | 45838 | 30.00 | ug/l | | 0.00 |
| 28) 1,4-Difluorobenzene | 8.510 | 114 | 226734 | 30.00 | ug/l | | 0.00 |
| 57) Chlorobenzene-d5 | 11.347 | 117 | 223308 | 30.00 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 27) 1,2-Dichloroethane-d4 | 7.944 | 65 | 128053 | 30.30 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 91 - 110 | | Recovery = 101.00% | | | | |
| 60) 4-Bromofluorobenzene | 12.345 | 95 | 102230 | 30.06 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 63 - 112 | | Recovery = 100.20% | | | | |
| 63) Toluene-d8 | 10.025 | 98 | 323522 | 30.23 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 91 - 112 | | Recovery = 100.77% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.816 | 85 | 62006 | 18.75 | ug/l | | 96 |
| 3) Chloromethane | 2.017 | 50 | 89360 | 19.27 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.143 | 62 | 81545 | 19.20 | ug/l | | 98 |
| 5) Bromomethane | 2.505 | 94 | 51789 | 18.24 | ug/l | | 100 |
| 6) Chloroethane | 2.644 | 64 | 54168 | 19.13 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 2.955 | 101 | 113972 | 18.65 | ug/l | | 96 |
| 8) Diethyl Ether | 3.336 | 74 | 41147 | 18.25 | ug/l | | 69 |
| 9) 1,1,2-Trichlorotrifluo... | 3.672 | 101 | 58795 | 18.63 | ug/l | | 90 |
| 10) 1,1-Dichloroethene | 3.653 | 96 | 57525 | 18.70 | ug/l | | 89 |
| 11) Methyl Iodide | 3.862 | 142 | 76134 | 19.95 | ug/l | | 89 |
| 12) Methyl Acetate | 4.227 | 43 | 111652 | 17.48 | ug/l | | 91 |
| 13) Acrolein | 3.527 | 56 | 55486 | 80.95 | ug/l | | 93 |
| 14) Acrylonitrile | 4.876 | 53 | 150337 | 88.78 | ug/l | # | 90 |
| 15) Acetone | 3.731 | 58 | 48779 | 78.19 | ug/l | | 69 |
| 16) Carbon Disulfide | 3.959 | 76 | 187091 | 17.68 | ug/l | | 99 |
| 17) Allyl chloride | 4.219 | 41 | 138812 | 17.08 | ug/l | | 94 |
| 18) Methylene Chloride | 4.439 | 84 | 60390 | 17.33 | ug/l | | 90 |
| 19) trans-1,2-Dichloroethene | 4.924 | 96 | 54705 | 18.60 | ug/l | | 94 |
| 20) Diisopropyl ether | 5.855 | 45 | 227199 | 19.17 | ug/l | | 97 |
| 21) 1,1-Dichloroethane | 5.734 | 63 | 118099 | 18.75 | ug/l | | 97 |
| 22) cis-1,2-Dichloroethene | 6.726 | 96 | 59088 | 18.54 | ug/l | | 88 |
| 23) tert-Butyl Alcohol | 4.712 | 59 | 48859m | 86.66 | ug/l | | |
| 24) Methyl tert-Butyl Ether | 4.940 | 73 | 170580 | 18.45 | ug/l | | 95 |
| 25) Chloroform | 7.279 | 83 | 113371 | 18.33 | ug/l | | 99 |
| 26) Cyclohexane | 7.563 | 56 | 87593 | 16.29 | ug/l | # | 95 |
| 29) 1,1-Dichloropropene | 7.703 | 75 | 76412 | 16.93 | ug/l | | 97 |
| 30) 2-Butanone | 6.740 | 43 | 211922 | 83.07 | ug/l | # | 78 |
| 31) 2,2-Dichloropropane | 6.718 | 77 | 99186 | 18.01 | ug/l | | 94 |
| 32) 1,1,1-Trichloroethane | 7.483 | 97 | 101025 | 18.24 | ug/l | | 96 |
| 33) Carbon Tetrachloride | 7.686 | 117 | 82292 | 17.61 | ug/l | | 92 |
| 34) Benzene | 7.955 | 78 | 245482 | 18.11 | ug/l | # | 91 |
| 35) Methacrylonitrile | 7.072 | 41 | 46632m | 18.85 | ug/l | | |
| 36) 1,2-Dichloroethane | 8.041 | 62 | 97597 | 17.68 | ug/l | | 98 |
| 37) Trichloroethene | 8.759 | 130 | 53495 | 17.40 | ug/l | | 96 |
| 38) Methylcyclohexane | 9.006 | 83 | 77099 | 17.26 | ug/l | | 87 |
| 39) 1,2-Dichloropropane | 9.046 | 63 | 68636 | 17.96 | ug/l | | 99 |
| 40) Dibromomethane | 9.137 | 93 | 43099 | 17.88 | ug/l | | 89 |
| 41) Bromodichloromethane | 9.333 | 83 | 93394 | 17.75 | ug/l | | 99 |
| 42) Vinyl Acetate | 5.790 | 43 | 932455 | 91.38 | ug/l | | 96 |

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Sample : VN0413WBSD01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0413WBSD01

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Quant Time: Apr 15 19:31:26 2021
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 15 19:20:03 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) Ethyl Acetate | 6.836 | 43 | 103111m | 18.14 | ug/l | | |
| 44) Isopropyl Acetate | 8.089 | 43 | 154841m | 17.41 | ug/l | | |
| 45) 1,4-Dioxane | 9.135 | 88 | 16309 | 337.55 | ug/l | # | 83 |
| 46) Methyl methacrylate | 9.132 | 41 | 69589 | 17.14 | ug/l | | 89 |
| 47) n-amyl Acetate | 12.018 | 43 | 45228m | 17.55 | ug/l | | |
| 48) t-1,3-Dichloropropene | 10.320 | 75 | 90811 | 17.76 | ug/l | | 98 |
| 49) cis-1,3-Dichloropropene | 9.773 | 75 | 96035 | 17.64 | ug/l | | 89 |
| 50) 1,1,2-Trichloroethane | 10.497 | 97 | 57795 | 17.76 | ug/l | | 97 |
| 51) Ethyl methacrylate | 10.368 | 69 | 71525 | 17.25 | ug/l | | 83 |
| 52) 1,3-Dichloropropane | 10.642 | 76 | 99358 | 17.82 | ug/l | | 99 |
| 53) Dibromochloromethane | 10.840 | 129 | 64500 | 18.18 | ug/l | | 100 |
| 54) 1,2-Dibromoethane | 10.942 | 107 | 55735 | 17.45 | ug/l | | 98 |
| 55) 2-Chloroethyl vinyl ether | 9.631 | 63 | 34895 | 91.01 | ug/l | | 99 |
| 56) Bromoform | 12.069 | 173 | 39696 | 17.24 | ug/l | # | 98 |
| 58) 4-Methyl-2-Pentanone | 9.921 | 43 | 464185 | 87.96 | ug/l | # | 92 |
| 59) 2-Hexanone | 10.690 | 43 | 296888 | 86.80 | ug/l | | 92 |
| 61) Tetrachloroethene | 10.570 | 164 | 48431 | 17.71 | ug/l | | 93 |
| 62) Toluene | 10.090 | 91 | 248322 | 18.01 | ug/l | | 98 |
| 64) Chlorobenzene | 11.372 | 112 | 143783 | 17.99 | ug/l | | 97 |
| 65) 1,1,1,2-Tetrachloroethane | 11.449 | 131 | 59163 | 17.97 | ug/l | | 100 |
| 66) Ethyl Benzene | 11.452 | 91 | 252306 | 17.89 | ug/l | | 93 |
| 67) m/p-Xylenes | 11.562 | 106 | 188955 | 35.95 | ug/l | | 97 |
| 68) o-Xylene | 11.889 | 106 | 85776 | 17.82 | ug/l | | 93 |
| 69) Styrene | 11.905 | 104 | 142116 | 17.77 | ug/l | | 98 |
| 70) Isopropylbenzene | 12.192 | 105 | 231350 | 18.15 | ug/l | | 98 |
| 71) 1,1,2,2-Tetrachloroethane | 12.447 | 83 | 86377 | 18.01 | ug/l | | 98 |
| 72) 1,2,3-Trichloropropane | 12.495 | 75 | 79728m | 17.81 | ug/l | | |
| 73) Bromobenzene | 12.468 | 156 | 57459 | 18.39 | ug/l | | 90 |
| 74) n-propylbenzene | 12.536 | 91 | 280982 | 18.63 | ug/l | | 96 |
| 75) 2-Chlorotoluene | 12.616 | 91 | 173222 | 18.34 | ug/l | | 94 |
| 76) 1,3,5-Trimethylbenzene | 12.675 | 105 | 194590 | 18.02 | ug/l | | 97 |
| 77) t-1,4-Dichloro-2-butene | 12.246 | 75 | 18434 | 18.14 | ug/l | | 96 |
| 78) 4-Chlorotoluene | 12.715 | 91 | 167035 | 18.97 | ug/l | | 97 |
| 79) tert-butylbenzene | 12.935 | 119 | 159688 | 18.00 | ug/l | | 97 |
| 80) 1,2,4-Trimethylbenzene | 12.983 | 105 | 186227 | 18.30 | ug/l | | 99 |
| 81) sec-Butylbenzene | 13.115 | 105 | 217105 | 17.92 | ug/l | | 97 |
| 82) p-Isopropyltoluene | 13.233 | 119 | 183676 | 18.16 | ug/l | | 97 |
| 83) 1,3-Dichlorobenzene | 13.227 | 146 | 98581 | 18.03 | ug/l | | 98 |
| 84) 1,4-Dichlorobenzene | 13.308 | 146 | 85924 | 15.22 | ug/l | | 95 |
| 85) n-Butylbenzene | 13.560 | 91 | 142314 | 15.90 | ug/l | | 99 |
| 86) Hexachloroethane | 13.815 | 117 | 42989 | 17.60 | ug/l | | 80 |
| 87) 1,2-Dichlorobenzene | 13.598 | 146 | 96973 | 18.15 | ug/l | | 98 |
| 88) 1,2-Dibromo-3-Chloropr... | 14.233 | 75 | 15947m | 17.95 | ug/l | | |
| 89) 1,2,4-Trichlorobenzene | 14.981 | 180 | 50129 | 16.01 | ug/l | | 98 |
| 90) Hexachlorobutadiene | 15.105 | 225 | 31080 | 17.54 | ug/l | | 95 |
| 91) Naphthalene | 15.266 | 128 | 125536 | 14.96 | ug/l | | 99 |
| 92) 1,2,3-Trichlorobenzene | 15.502 | 180 | 51972 | 17.17 | ug/l | | 91 |

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

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