Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101419\
Data File : VL034278.D
Acq On : 14 Oct 2019 9:20
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 06:45:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 1
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

**Instrument :** MSVOA_L
**ClientSampleId :** VSTDCCC010

**Manual Integrations APPROVED**
MMDadoda
10/16/2019 12:59:11 AM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.69 | 49 | 918864 | 10.00 | ppbv | -0.01 |
| 33) 1,4-Difluorobenzene | 7.22 | 114 | 1730888 | 10.00 | ppbv | -0.01 |
| 55) Chlorobenzene-d5 | 12.16 | 117 | 1887944m | 10.00 | ppbv | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.49 | 95 | 1514859 | 9.23 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.30% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.03 | 85 | 1606167 | 11.834 | ppbv | 99 |
| 3) Chlorodifluoromethane | 2.97 | 51 | 1052277 | 9.767 | ppbv | 99 |
| 4) Chloromethane | 3.12 | 50 | 659918 | 10.423 | ppbv | 97 |
| 5) Vinyl Chloride | 3.24 | 62 | 588574 | 10.172 | ppbv | 98 |
| 6) Bromomethane | 3.46 | 94 | 296636 | 10.988 | ppbv | 96 |
| 7) Chloroethane | 3.55 | 64 | 214382 | 10.601 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 3.17 | 85 | 1259949 | 10.518 | ppbv | 99 |
| 9) Propene | 2.99 | 41 | 531629 | 10.002 | ppbv | 99 |
| 10) Heptane | 8.17 | 43 | 1390289 | 10.036 | ppbv | 98 |
| 11) Trichlorofluoromethane | 3.94 | 101 | 1319554 | 10.681 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 906029 | 11.206 | ppbv | 98 |
| 13) Ethanol | 3.60 | 45 | 107092 | 8.320 | ppbv | 97 |
| 14) Bromoethene | 3.73 | 108 | 386663 | 11.697 | ppbv | 98 |
| 15) Acetone | 3.84 | 43 | 1084360 | 8.805 | ppbv | 99 |
| 16) 1,3-Butadiene | 3.31 | 39 | 568519 | 10.578 | ppbv | 98 |
| 17) tert-Butyl alcohol | 4.29 | 59 | 871485 | 11.168 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 4.29 | 96 | 412315 | 11.692 | ppbv | 89 |
| 19) Isopropyl Alcohol | 3.97 | 45 | 740233 | 9.775 | ppbv | 100 |
| 20) Methylene Chloride | 4.35 | 84 | 368650 | 10.382 | ppbv | 93 |
| 21) Allyl Chloride | 4.41 | 41 | 785464 | 11.292 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 4.89 | 96 | 420035 | 11.905 | ppbv | 93 |
| 23) Vinyl Acetate | 5.09 | 43 | 1885824 | 10.391 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 5.02 | 63 | 1244954 | 10.188 | ppbv | 99 |
| 25) Ethyl Acetate | 5.70 | 43 | 2290773 | 9.837 | ppbv | 99 |
| 26) Hexane | 5.71 | 57 | 985067 | 10.169 | ppbv | 98 |
| 27) Carbon Disulfide | 4.56 | 76 | 1078601 | 12.073 | ppbv | 98 |
| 28) Methyl tert-Butyl Ether | 5.04 | 73 | 1610660 | 11.195 | ppbv | 98 |
| 29) Chloroform | 5.78 | 83 | 1452191 | 10.490 | ppbv | 99 |
| 30) Cyclohexane | 7.17 | 84 | 775012 | 11.081 | ppbv | 94 |
| 31) cis-1,2-Dichloroethene | 5.57 | 61 | 1044073 | 10.572 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 6.55 | 97 | 1377405 | 10.317 | ppbv | 97 |
| 34) 2-Butanone | 5.26 | 43 | 1569347 | 8.880 | ppbv | 97 |
| 35) Carbon Tetrachloride | 7.06 | 117 | 1329417 | 9.245 | ppbv | 99 |
| 36) Benzene | 6.93 | 78 | 1864243 | 9.752 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 6.34 | 62 | 1222769 | 8.993 | ppbv | 99 |
| 38) Trichloroethene | 7.88 | 130 | 625022 | 9.151 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 7.66 | 63 | 809727 | 9.427 | ppbv | 93 |
| 40) 1,4-Dioxane | 7.87 | 88 | 262297 | 9.437 | ppbv # | 90 |
| 41) Tetrahydrofuran | 6.08 | 42 | 941661 | 9.460 | ppbv | 97 |
| 42) Bromodichloromethane | 7.84 | 83 | 1588793 | 9.736 | ppbv | 98 |
| 43) Methyl Methacrylate | 8.06 | 69 | 797994 | 10.105 | ppbv | 94 |

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Instrument :
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Quant Time: Oct 15 06:45:50 2019
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 1
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| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,2,4-Trimethylpentane | 7.91 | 57 | 3401016 | 9.241 | ppbv | | 97 |
| 45) t-1,3-Dichloropropene | 9.34 | 75 | 1036007 | 11.095 | ppbv | | 100 |
| 46) cis-1,3-Dichloropropene | 8.75 | 75 | 1166397 | 10.385 | ppbv | | 92 |
| 47) 1,1,2-Trichloroethane | 9.54 | 97 | 732162 | 9.493 | ppbv | | 95 |
| 48) Dibromochloromethane | 10.37 | 129 | 1203720 | 9.847 | ppbv | | 99 |
| 49) Bromoform | 13.11 | 173 | 1013126 | 10.241 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 8.79 | 43 | 2312143 | 8.989 | ppbv | | 99 |
| 51) 2-Hexanone | 10.19 | 43 | 1924529 | 8.916 | ppbv | # | 97 |
| 52) Tetrachloroethene | 11.29 | 164 | 579795 | 9.180 | ppbv | | 96 |
| 53) Toluene | 9.86 | 91 | 2068131 | 9.899 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 10.67 | 107 | 1099436 | 9.585 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 12.19 | 131 | 778444 | 9.246 | ppbv | | 99 |
| 57) Chlorobenzene | 12.21 | 112 | 1449227 | 8.816 | ppbv | | 97 |
| 58) Ethyl Benzene | 12.78 | 91 | 2819989 | 9.257 | ppbv | | 99 |
| 59) m/p-Xylene | 13.06 | 91 | 4589685m | 18.190 | ppbv | | |
| 60) o-Xylene | 13.77 | 91 | 2254567 | 8.936 | ppbv | | 99 |
| 61) Styrene | 13.60 | 104 | 1689443 | 9.348 | ppbv | | 98 |
| 62) Isopropylbenzene | 14.74 | 105 | 2921833 | 8.946 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 13.75 | 83 | 1624080 | 7.850 | ppbv | | 99 |
| 64) n-propylbenzene | 15.64 | 120 | 734311 | 8.887 | ppbv | | 88 |
| 65) tert-Butylbenzene | 16.82 | 119 | 2493551 | 8.738 | ppbv | | 98 |
| 66) Benzyl Chloride | 17.07 | 91 | 1233986 | 12.222 | ppbv | | 100 |
| 67) sec-Butylbenzene | 17.37 | 105 | 3595372 | 8.811 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 17.73 | 119 | 2908292 | 8.801 | ppbv | | 99 |
| 70) n-Butylbenzene | 18.63 | 91 | 3307493 | 8.596 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 15.53 | 91 | 2357867 | 8.836 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 15.92 | 105 | 2584275 | 9.066 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 16.07 | 105 | 2477233 | 8.996 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 16.84 | 105 | 2488581 | 8.511 | ppbv | | 98 |
| 75) 1,3-Dichlorobenzene | 17.08 | 146 | 1369973 | 8.733 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 17.22 | 146 | 1370163 | 8.528 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 17.90 | 146 | 1333068 | 8.396 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 23.46 | 225 | 1030440 | 9.798 | ppbv | | 100 |
| 79) Naphthalene | 22.30 | 128 | 2217985 | 8.616 | ppbv | | 96 |
| 80) Naphthalene,2-methyl- | 25.04 | 142 | 960832 | 8.026 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 22.04 | 180 | 1241050 | 8.703 | ppbv | | 98 |

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

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