Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL052819\
Data File : VL033838.D
Acq On : 29 May 2019 14:59
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Manual Integrations APPROVED
apatel
5/30/2019 3:34:33 PM

Quant Time: May 30 02:04:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri May 1
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.76 | 49 | 804541 | 10.00 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 7.29 | 114 | 2173217 | 10.00 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 12.24 | 117 | 2221409m | 10.00 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.57 | 95 | 1676315 | 9.31 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.10% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.07 | 85 | 1366466 | 8.059 | ppbv | 98 |
| 3) Chlorodifluoromethane | 3.01 | 51 | 966878 | 10.492 | ppbv | 98 |
| 4) Chloromethane | 3.17 | 50 | 592921 | 11.249 | ppbv | 100 |
| 5) Vinyl Chloride | 3.29 | 62 | 580948 | 10.820 | ppbv | 99 |
| 6) Bromomethane | 3.51 | 94 | 365676 | 11.162 | ppbv | 98 |
| 7) Chloroethane | 3.60 | 64 | 210359 | 11.024 | ppbv | 96 |
| 8) Dichlorotetrafluoroethane | 3.22 | 85 | 1447640 | 10.590 | ppbv | 97 |
| 9) Propene | 3.03 | 41 | 460688 | 11.753 | ppbv | 99 |
| 10) Heptane | 8.24 | 43 | 1155509 | 10.410 | ppbv | 100 |
| 11) Trichlorofluoromethane | 4.00 | 101 | 1593448 | 9.847 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101 | 1084745 | 9.599 | ppbv | 97 |
| 13) Ethanol | 3.65 | 45 | 96536 | 7.620 | ppbv | 99 |
| 14) Bromoethene | 3.78 | 108 | 482073 | 11.604 | ppbv | 99 |
| 15) Acetone | 3.90 | 43 | 1020624 | 9.143 | ppbv | 100 |
| 16) 1,3-Butadiene | 3.36 | 39 | 509131 | 11.454 | ppbv | 100 |
| 17) tert-Butyl alcohol | 4.35 | 59 | 1014197 | 11.236 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 4.35 | 96 | 495579 | 10.390 | ppbv | 97 |
| 19) Isopropyl Alcohol | 4.02 | 45 | 765930 | 10.642 | ppbv | 100 |
| 20) Methylene Chloride | 4.41 | 84 | 414143 | 9.636 | ppbv | 97 |
| 21) Allyl Chloride | 4.47 | 41 | 717009 | 10.298 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 4.96 | 96 | 509694 | 10.425 | ppbv | 97 |
| 23) Vinyl Acetate | 5.15 | 43 | 1657530 | 11.262 | ppbv | 99 |
| 24) 1,1-Dichloroethane | 5.09 | 63 | 1163377 | 10.398 | ppbv | 99 |
| 25) Ethyl Acetate | 5.77 | 43 | 1983371 | 10.115 | ppbv | 100 |
| 26) Hexane | 5.78 | 57 | 891344 | 10.574 | ppbv | 98 |
| 27) Carbon Disulfide | 4.62 | 76 | 1196805 | 10.348 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 5.11 | 73 | 1574407 | 11.456 | ppbv | 100 |
| 29) Chloroform | 5.85 | 83 | 1523086 | 9.809 | ppbv | 99 |
| 30) Cyclohexane | 7.24 | 84 | 823480 | 11.619 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 5.64 | 61 | 901968 | 10.791 | ppbv | 95 |
| 32) 1,1,1-Trichloroethane | 6.62 | 97 | 1611705 | 10.395 | ppbv | 99 |
| 34) 2-Butanone | 5.33 | 43 | 1315846 | 9.768 | ppbv | 98 |
| 35) Carbon Tetrachloride | 7.13 | 117 | 1673634 | 9.614 | ppbv | 99 |
| 36) Benzene | 7.00 | 78 | 2043216 | 10.336 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 6.41 | 62 | 1125354 | 8.825 | ppbv | 98 |
| 38) Trichloroethene | 7.96 | 130 | 769259 | 10.487 | ppbv | 99 |
| 39) 1,2-Dichloropropane | 7.73 | 63 | 717280 | 9.732 | ppbv | 95 |
| 40) 1,4-Dioxane | 7.95 | 88 | 300516 | 9.747 | ppbv # | 93 |
| 41) Tetrahydrofuran | 6.14 | 42 | 774704 | 10.264 | ppbv | 98 |
| 42) Bromodichloromethane | 7.91 | 83 | 1652586 | 9.466 | ppbv | 97 |
| 43) Methyl Methacrylate | 8.13 | 69 | 751012 | 10.323 | ppbv | 98 |

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| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,2,4-Trimethylpentane | 7.98 | 57 | 3099303 | 9.276 | ppbv | | 99 |
| 45) t-1,3-Dichloropropene | 9.41 | 75 | 1059910 | 11.492 | ppbv | | 98 |
| 46) cis-1,3-Dichloropropene | 8.83 | 75 | 1133592 | 10.497 | ppbv | | 95 |
| 47) 1,1,2-Trichloroethane | 9.61 | 97 | 806685 | 9.634 | ppbv | | 98 |
| 48) Dibromochloromethane | 10.44 | 129 | 1395031 | 9.616 | ppbv | | 99 |
| 49) Bromoform | 13.20 | 173 | 1324443 | 10.850 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 8.87 | 43 | 1958235 | 9.451 | ppbv | | 99 |
| 51) 2-Hexanone | 10.26 | 43 | 1645325 | 10.175 | ppbv | # | 99 |
| 52) Tetrachloroethene | 11.37 | 164 | 755000 | 10.865 | ppbv | | 95 |
| 53) Toluene | 9.94 | 91 | 2244445 | 10.526 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 10.76 | 107 | 1262112 | 9.877 | ppbv | | 99 |
| 56) 1,1,1,2-Tetrachloroethane | 12.27 | 131 | 974745 | 9.483 | ppbv | | 97 |
| 57) Chlorobenzene | 12.30 | 112 | 1735829 | 9.493 | ppbv | | 97 |
| 58) Ethyl Benzene | 12.86 | 91 | 3190282 | 10.845 | ppbv | | 98 |
| 59) m/p-Xylene | 13.15 | 91 | 5292285m | 20.581 | ppbv | | |
| 60) o-Xylene | 13.84 | 91 | 2592282 | 10.000 | ppbv | | 98 |
| 61) Styrene | 13.68 | 104 | 2009487 | 11.514 | ppbv | | 98 |
| 62) Isopropylbenzene | 14.82 | 105 | 3549095 | 10.166 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 13.83 | 83 | 1818178 | 9.645 | ppbv | | 100 |
| 64) n-propylbenzene | 15.72 | 120 | 921189 | 10.201 | ppbv | | 100 |
| 65) tert-Butylbenzene | 16.91 | 119 | 3111617 | 9.762 | ppbv | | 99 |
| 66) Benzyl Chloride | 17.15 | 91 | 1569184 | 10.337 | ppbv | | 99 |
| 67) sec-Butylbenzene | 17.45 | 105 | 4507385 | 10.104 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 17.81 | 119 | 3768689 | 10.221 | ppbv | | 99 |
| 70) n-Butylbenzene | 18.71 | 91 | 3837582 | 9.705 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 15.61 | 91 | 2795363 | 10.793 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 15.99 | 105 | 3137054 | 10.584 | ppbv | | 100 |
| 73) 1,3,5-Trimethylbenzene | 16.15 | 105 | 2962235 | 10.243 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 16.92 | 105 | 2973916 | 9.449 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 17.16 | 146 | 1791067 | 9.287 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 17.30 | 146 | 1791130 | 9.772 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 17.98 | 146 | 1738737 | 9.595 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 23.54 | 225 | 1190791 | 8.691 | ppbv | | 99 |
| 79) Naphthalene | 22.40 | 128 | 2361764 | 8.079 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 25.11 | 142 | 919003 | 8.274 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 22.13 | 180 | 1379209 | 8.057 | ppbv | | 100 |

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

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