Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL073019\
Data File : VL034055.D
Acq On : 30 Jul 2019 7:18
Operator : SY/AP
Sample : VSTDICV010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 08:00:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul 3
QLast Update : Tue Jul 30 06:55:18 2019
Response via : Initial Calibration

**Instrument :** MSVOA_L
**ClientSampleId :** ICVVL073019

**Manual Integrations APPROVED**
MMdadoda
8/2/2019 9:37:41 AM

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.72 | 49 | 1222231 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.25 | 114 | 4516542 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.19 | 117 | 3463908m | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.52 | 95 | 2608548 | 9.53 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.30% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.05 | 85 | 1898877 | 8.088 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 2.99 | 51 | 1300654 | 9.219 | ppbv | | 98 |
| 4) Chloromethane | 3.14 | 50 | 693961 | 8.386 | ppbv | | 96 |
| 5) Vinyl Chloride | 3.26 | 62 | 758081 | 8.313 | ppbv | | 100 |
| 6) Bromomethane | 3.48 | 94 | 486958 | 8.483 | ppbv | | 97 |
| 7) Chloroethane | 3.57 | 64 | 295376 | 7.993 | ppbv | | 95 |
| 8) Dichlorotetrafluoroethane | 3.19 | 85 | 1917880 | 8.201 | ppbv | | 99 |
| 9) Propene | 3.01 | 41 | 499293 | 9.858 | ppbv | | 96 |
| 10) Heptane | 8.20 | 43 | 1445335 | 10.463 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 3.97 | 101 | 2078832 | 7.962 | ppbv | | 97 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.52 | 101 | 1501941 | 8.552 | ppbv | | 99 |
| 13) Ethanol | 3.62 | 45 | 161984 | 8.035 | ppbv | | 97 |
| 14) Bromoethene | 3.76 | 108 | 633741 | 8.545 | ppbv | | 99 |
| 15) Acetone | 3.87 | 43 | 1436938 | 7.733 | ppbv | | 100 |
| 16) 1,3-Butadiene | 3.34 | 39 | 652406 | 9.041 | ppbv | | 98 |
| 17) tert-Butyl alcohol | 4.32 | 59 | 1461826 | 9.568 | ppbv | | 99 |
| 18) 1,1-Dichloroethene | 4.32 | 96 | 674510 | 8.477 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 3.99 | 45 | 1131907 | 8.919 | ppbv | # | 99 |
| 20) Methylene Chloride | 4.37 | 84 | 600964 | 8.456 | ppbv | | 97 |
| 21) Allyl Chloride | 4.44 | 41 | 1032545 | 8.804 | ppbv | | 97 |
| 22) trans-1,2-Dichloroethene | 4.92 | 96 | 656793 | 7.968 | ppbv | | 99 |
| 23) Vinyl Acetate | 5.12 | 43 | 1892471 | 9.510 | ppbv | | 99 |
| 24) 1,1-Dichloroethane | 5.05 | 63 | 1498346 | 8.476 | ppbv | | 99 |
| 25) Ethyl Acetate | 5.73 | 43 | 2590506 | 9.378 | ppbv | | 100 |
| 26) Hexane | 5.74 | 57 | 1199051 | 9.596 | ppbv | | 98 |
| 27) Carbon Disulfide | 4.58 | 76 | 1746661 | 8.977 | ppbv | | 99 |
| 28) Methyl tert-Butyl Ether | 5.07 | 73 | 1935795 | 9.103 | ppbv | | 100 |
| 29) Chloroform | 5.81 | 83 | 2004204 | 8.782 | ppbv | | 97 |
| 30) Cyclohexane | 7.20 | 84 | 1489523 | 11.733 | ppbv | | 99 |
| 31) cis-1,2-Dichloroethene | 5.60 | 61 | 1200474 | 9.858 | ppbv | | 95 |
| 32) 1,1,1-Trichloroethane | 6.57 | 97 | 1916997 | 8.003 | ppbv | | 99 |
| 34) 2-Butanone | 5.29 | 43 | 1487164 | 8.001 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 7.09 | 117 | 3086691 | 9.684 | ppbv | | 98 |
| 36) Benzene | 6.96 | 78 | 3533147 | 11.751 | ppbv | | 99 |
| 37) 1,2-Dichloroethane | 6.37 | 62 | 1447937 | 7.008 | ppbv | | 99 |
| 38) Trichloroethene | 7.91 | 130 | 1068126 | 8.477 | ppbv | | 94 |
| 39) 1,2-Dichloropropane | 7.69 | 63 | 1303333 | 10.682 | ppbv | | 97 |
| 40) 1,4-Dioxane | 7.91 | 88 | 393532 | 8.168 | ppbv | # | 1 |
| 41) Tetrahydrofuran | 6.10 | 42 | 844474 | 8.944 | ppbv | | 98 |
| 42) Bromodichloromethane | 7.87 | 83 | 2315764 | 8.107 | ppbv | | 94 |
| 43) Methyl Methacrylate | 8.09 | 69 | 1022654 | 9.543 | ppbv | | 97 |

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL073019\
Data File : VL034055.D
Acq On : 30 Jul 2019 7:18
Operator : SY/AP
Sample : VSTDICV010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** ICVVL073019

**Manual Integrations APPROVED**
MMdadoda
8/2/2019 9:37:41 AM

Quant Time: Jul 30 08:00:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul 3
QLast Update : Tue Jul 30 06:55:18 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,2,4-Trimethylpentane | 7.94 | 57 | 4246168 | 8.506 | ppbv | | 99 |
| 45) t-1,3-Dichloropropene | 9.36 | 75 | 1332029 | 9.660 | ppbv | | 98 |
| 46) cis-1,3-Dichloropropene | 8.79 | 75 | 1512959 | 9.763 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 9.57 | 97 | 1115599 | 8.790 | ppbv | | 99 |
| 48) Dibromochloromethane | 10.40 | 129 | 1963724 | 8.104 | ppbv | | 99 |
| 49) Bromoform | 13.15 | 173 | 1860402 | 8.807 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 8.82 | 43 | 2526309 | 9.155 | ppbv | | 99 |
| 51) 2-Hexanone | 10.22 | 43 | 2075565 | 9.044 | ppbv | # | 99 |
| 52) Tetrachloroethene | 11.32 | 164 | 1053241 | 8.934 | ppbv | | 98 |
| 53) Toluene | 9.89 | 91 | 3090175 | 9.851 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 10.71 | 107 | 1721955 | 9.141 | ppbv | | 95 |
| 56) 1,1,1,2-Tetrachloroethane | 12.23 | 131 | 1402077 | 9.058 | ppbv | | 97 |
| 57) Chlorobenzene | 12.25 | 112 | 2414619 | 8.997 | ppbv | | 99 |
| 58) Ethyl Benzene | 12.81 | 91 | 4289441 | 10.463 | ppbv | | 100 |
| 59) m/p-Xylene | 13.10 | 91 | 7185288m | 19.281 | ppbv | | |
| 60) o-Xylene | 13.79 | 91 | 3573124 | 9.647 | ppbv | | 100 |
| 61) Styrene | 13.63 | 104 | 2565950 | 10.491 | ppbv | | 99 |
| 62) Isopropylbenzene | 14.77 | 105 | 4742529 | 9.557 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 13.79 | 83 | 2523055 | 8.876 | ppbv | | 100 |
| 64) n-propylbenzene | 15.67 | 120 | 1193842 | 9.291 | ppbv | | 97 |
| 65) tert-Butylbenzene | 16.86 | 119 | 4248520 | 9.288 | ppbv | | 99 |
| 66) Benzyl Chloride | 17.10 | 91 | 1944587 | 8.472 | ppbv | | 100 |
| 67) sec-Butylbenzene | 17.41 | 105 | 6045160 | 9.297 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 17.77 | 119 | 4956384 | 9.352 | ppbv | | 99 |
| 70) n-Butylbenzene | 18.66 | 91 | 5293981 | 9.436 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 15.56 | 91 | 3629311 | 10.074 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 15.95 | 105 | 4089469 | 9.765 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 16.11 | 105 | 3947918 | 9.262 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 16.87 | 105 | 4060280 | 8.671 | ppbv | # | 85 |
| 75) 1,3-Dichlorobenzene | 17.11 | 146 | 2380459 | 8.149 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 17.25 | 146 | 2352242 | 8.531 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 17.94 | 146 | 2330739 | 8.666 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 23.49 | 225 | 1750840 | 7.076 | ppbv | | 98 |
| 79) Naphthalene | 22.34 | 128 | 3523532 | 8.633 | ppbv | | 97 |
| 80) Naphthalene,2-methyl- | 25.07 | 142 | 674210 | 4.737 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 22.07 | 180 | 2053900m | 7.806 | ppbv | | |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL073019\
Data File : VL034055.D
Acq On : 30 Jul 2019 7:18
Operator : SY/AP
Sample : VSTDICV010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 08:00:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul
QLast Update : Tue Jul 30 06:55:18 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL073019

**Manual Integrations APPROVED**
MMdadoda
8/2/2019 9:37:41 AM