

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\  
 Data File : VL034484.D  
 Acq On : 10 Dec 2019 4:07  
 Operator : SY/AP  
 Sample : K6181-03  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 1A-3

Manual Integrations  
 APPROVED

apatel  
 12/11/2019 2:13:11 PM

Quant Time: Dec 11 12:08:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Nov 19 14:15:35 2019  
 QLast Update : Tue Nov 19 14:15:35 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 821157   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 1668919  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.13 | 117  | 1691136  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.47  | 95    | 1454546  | 10.22    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.20% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.02  | 85   | 30594    | 0.206  | ppbv # | 82     |
| 3) Chlorodifluoromethane   | 2.96  | 51   | 43636m   | 0.426  | ppbv   |        |
| 4) Chloromethane           | 3.11  | 50   | 27944    | 0.462  | ppbv   | 89     |
| 9) Propene                 | 2.98  | 41   | 185770   | 4.084  | ppbv   | 93     |
| 10) Heptane                | 8.15  | 43   | 119547   | 1.018  | ppbv   | 98     |
| 11) Trichlorofluoromethane | 3.93  | 101  | 48229    | 0.326  | ppbv   | 93     |
| 13) Ethanol                | 3.59  | 45   | 586557   | 46.292 | ppbv   | 95     |
| 15) Acetone                | 3.83  | 43   | 904240   | 7.690  | ppbv   | 94     |
| 19) Isopropyl Alcohol      | 3.96  | 45   | 193096   | 2.562  | ppbv # | 93     |
| 20) Methylene Chloride     | 4.33  | 84   | 166007   | 3.981  | ppbv   | 90     |
| 26) Hexane                 | 5.70  | 57   | 257741   | 2.859  | ppbv # | 42     |
| 30) Cyclohexane            | 7.16  | 84   | 42151    | 0.618  | ppbv   | 87     |
| 34) 2-Butanone             | 5.25  | 43   | 178896   | 1.302  | ppbv   | 98     |
| 35) Carbon Tetrachloride   | 7.04  | 117  | 9711m    | 0.068  | ppbv   |        |
| 36) Benzene                | 6.91  | 78   | 505335   | 3.029  | ppbv   | 96     |
| 38) Trichloroethene        | 7.86  | 130  | 38973    | 0.569  | ppbv   | 89     |
| 41) Tetrahydrofuran        | 6.07  | 42   | 24727m   | 0.321  | ppbv   |        |
| 44) 2,2,4-Trimethylpentane | 7.90  | 57   | 372238   | 1.221  | ppbv # | 85     |
| 52) Tetrachloroethene      | 11.27 | 164  | 14042m   | 0.195  | ppbv   |        |
| 53) Toluene                | 9.84  | 91   | 1186955  | 6.264  | ppbv   | 99     |
| 58) Ethyl Benzene          | 12.76 | 91   | 343316   | 1.308  | ppbv   | 95     |
| 59) m/p-Xylene             | 13.01 | 91   | 953243   | 4.202  | ppbv   | 99     |
| 60) o-Xylene               | 13.74 | 91   | 267435   | 1.192  | ppbv   | 100    |
| 72) 4-Ethyltoluene         | 15.90 | 105  | 58181m   | 0.224  | ppbv   |        |
| 73) 1,3,5-Trimethylbenzene | 16.05 | 105  | 64812m   | 0.255  | ppbv   |        |
| 74) 1,2,4-Trimethylbenzene | 16.82 | 105  | 220142m  | 0.817  | ppbv   |        |

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

