

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121719\  
 Data File : VL034496.D  
 Acq On : 17 Dec 2019 17:13  
 Operator : SY/AP  
 Sample : K6319-01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LIHA-IAH

Manual Integrations  
 APPROVED

MMDadoda  
 12/19/2019 3:47:00 PM

Quant Time: Dec 18 05:03:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LTue 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   | 903945   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 1803352  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.13 | 117  | 1798530m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.47  | 95    | 1558517  | 10.30    | ppbv | -0.01   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.00% |

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 3.02  | 85   | 83763    | 0.512   | ppbv   | 98     |
| 3) Chlorodifluoromethane   | 2.96  | 51   | 34880m   | 0.309   | ppbv   |        |
| 4) Chloromethane           | 3.11  | 50   | 28750    | 0.432   | ppbv   | 98     |
| 9) Propene                 | 3.00  | 41   | 89314m   | 1.784   | ppbv   |        |
| 10) Heptane                | 8.15  | 43   | 37364    | 0.289   | ppbv   | 99     |
| 11) Trichlorofluoromethane | 3.94  | 101  | 41723    | 0.256   | ppbv   | 91     |
| 13) Ethanol                | 3.60  | 45   | 5520784  | 395.806 | ppbv   | 92     |
| 15) Acetone                | 3.83  | 43   | 869321   | 6.716   | ppbv   | 92     |
| 17) tert-Butyl alcohol     | 4.31  | 59   | 28705m   | 0.264   | ppbv   |        |
| 19) Isopropyl Alcohol      | 3.98  | 45   | 102664   | 1.237   | ppbv # | 89     |
| 20) Methylene Chloride     | 4.34  | 84   | 55740    | 1.214   | ppbv # | 94     |
| 26) Hexane                 | 5.70  | 57   | 32970    | 0.332   | ppbv # | 64     |
| 29) Chloroform             | 5.76  | 83   | 111181   | 0.692   | ppbv   | 97     |
| 34) 2-Butanone             | 5.26  | 43   | 34315m   | 0.231   | ppbv   |        |
| 35) Carbon Tetrachloride   | 7.04  | 117  | 12387m   | 0.080   | ppbv   |        |
| 36) Benzene                | 6.92  | 78   | 33577    | 0.186   | ppbv   | 97     |
| 52) Tetrachloroethene      | 11.27 | 164  | 7328m    | 0.094   | ppbv   |        |
| 53) Toluene                | 9.84  | 91   | 172430   | 0.842   | ppbv   | 97     |
| 59) m/p-Xylene             | 13.01 | 91   | 36932m   | 0.153   | ppbv   |        |

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

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