

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\  
 Data File : VL033581.D  
 Acq On : 11 Apr 2019 2:17  
 Operator : SY/AP  
 Sample : K2312-04  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A-9

Manual Integrations  
 APPROVED

MMDadoda  
 4/11/2019 1:02:11 PM

Quant Time: Apr 11 05:15:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 2  
 QLast Update : Tue Mar 26 16:00:50 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 794693   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 1888583  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 1869849  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 1516040  | 10.34    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.40% |

| Target Compounds           | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.08 | 85   | 36584    | 0.316  | ppbv   | 98     |
| 3) Chlorodifluoromethane   | 3.01 | 51   | 44202m   | 0.483  | ppbv   |        |
| 4) Chloromethane           | 3.17 | 50   | 21393    | 0.442  | ppbv   | 95     |
| 9) Propene                 | 3.05 | 41   | 23553    | 0.613  | ppbv # | 78     |
| 10) Heptane                | 8.25 | 43   | 16314m   | 0.159  | ppbv   |        |
| 11) Trichlorofluoromethane | 4.01 | 101  | 30175    | 0.211  | ppbv   | 88     |
| 13) Ethanol                | 3.66 | 45   | 709675   | 71.378 | ppbv   | 64     |
| 15) Acetone                | 3.90 | 43   | 1145442  | 11.987 | ppbv   | 98     |
| 19) Isopropyl Alcohol      | 4.04 | 45   | 137168   | 2.270  | ppbv # | 1      |
| 20) Methylene Chloride     | 4.41 | 84   | 1433201  | 35.334 | ppbv   | 93     |
| 26) Hexane                 | 5.78 | 57   | 1875417  | 23.791 | ppbv # | 44     |
| 34) 2-Butanone             | 5.34 | 43   | 46278    | 0.408  | ppbv   | 95     |
| 35) Carbon Tetrachloride   | 7.14 | 117  | 6643m    | 0.050  | ppbv   |        |
| 36) Benzene                | 7.00 | 78   | 20845    | 0.132  | ppbv # | 94     |
| 44) 2,2,4-Trimethylpentane | 7.99 | 57   | 21540m   | 0.078  | ppbv   |        |
| 53) Toluene                | 9.94 | 91   | 552649   | 3.001  | ppbv   | 98     |

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

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