

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\  
 Data File : VL033940.D  
 Acq On : 24 Jun 2019 17:18  
 Operator : SY/AP  
 Sample : K3481-08  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 TZC-SSDS-AREA-D-2

Manual Integrations  
 APPROVED

MMDadoda  
 7/1/2019 5:01:19 PM

Quant Time: Jun 25 21:28:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 0  
 QLast Update : Fri Jun 07 08:53:27 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.74  | 49   | 948239   | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.27  | 114  | 2392895  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.21 | 117  | 2401035  | 10.00 | ppbv  | -0.02    |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|--------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.54  | 95    | 1930399  | 9.79     | ppbv | -0.02  |          |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.90% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.07  | 85   | 52100    | 0.339  | ppbv   | 97     |
| 3) Chlorodifluoromethane   | 3.01  | 51   | 222494m  | 1.993  | ppbv   |        |
| 4) Chloromethane           | 3.17  | 50   | 39996    | 0.628  | ppbv # | 88     |
| 9) Propene                 | 3.04  | 41   | 25293    | 0.606  | ppbv # | 82     |
| 11) Trichlorofluoromethane | 3.99  | 101  | 42554    | 0.214  | ppbv   | 94     |
| 13) Ethanol                | 3.64  | 45   | 153838   | 11.320 | ppbv   | 99     |
| 15) Acetone                | 3.89  | 43   | 803048   | 5.807  | ppbv   | 99     |
| 17) tert-Butyl alcohol     | 4.35  | 59   | 63511    | 0.587  | ppbv   | 100    |
| 19) Isopropyl Alcohol      | 4.02  | 45   | 115457   | 1.461  | ppbv # | 1      |
| 20) Methylene Chloride     | 4.39  | 84   | 132706   | 2.461  | ppbv   | 97     |
| 26) Hexane                 | 5.76  | 57   | 210388   | 2.194  | ppbv # | 41     |
| 34) 2-Butanone             | 5.32  | 43   | 110175   | 0.816  | ppbv   | 94     |
| 35) Carbon Tetrachloride   | 7.11  | 117  | 11620m   | 0.063  | ppbv   |        |
| 36) Benzene                | 6.98  | 78   | 34121    | 0.187  | ppbv   | 96     |
| 44) 2,2,4-Trimethylpentane | 7.97  | 57   | 34261m   | 0.105  | ppbv   |        |
| 52) Tetrachloroethene      | 11.34 | 164  | 3073m    | 0.048  | ppbv   |        |
| 53) Toluene                | 9.92  | 91   | 3198555  | 15.813 | ppbv   | 98     |
| 58) Ethyl Benzene          | 12.83 | 91   | 1413939  | 5.223  | ppbv   | 97     |
| 59) m/p-Xylene             | 13.09 | 91   | 5009912  | 20.352 | ppbv   | 97     |
| 60) o-Xylene               | 13.82 | 91   | 1546176  | 6.083  | ppbv   | 98     |
| 74) 1,2,4-Trimethylbenzene | 16.89 | 105  | 70514m   | 0.215  | ppbv   |        |

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

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