

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\  
 Data File : VL032364.D  
 Acq On : 15 Aug 2018 23:15  
 Operator : SY/AP  
 Sample : J4457-02  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SS08-MIVI

Manual Integrations  
 APPROVED

MMDadoda  
 8/17/2018 2:06:44 PM

Quant Time: Aug 16 07:20:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 15 14:58:02 2018  
 QLast Update : Wed Aug 15 14:58:02 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.82  | 49   | 1942944  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.36  | 114  | 4107790  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.34 | 117  | 4272019  | 10.00 | ppbv  | 0.03     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.67  | 95    | 3957280  | 12.14    | ppbv | 0.02    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 121.40% |

| Target Compounds               | R.T.  | QIon | Response  | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|-----------|--------|--------|--------|
| 3) Chlorodifluoromethane       | 3.04  | 51   | 45286m    | 0.25   | ppbv   |        |
| 4) Chloromethane               | 3.21  | 50   | 38732     | 0.36   | ppbv # | 84     |
| 9) Propene                     | 3.09  | 41   | 2330072m  | 30.25  | ppbv   |        |
| 10) Heptane                    | 8.33  | 43   | 18803523  | 81.05  | ppbv   | 93     |
| 11) Trichlorofluoromethane     | 4.05  | 101  | 104732    | 0.48   | ppbv   | 88     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.61  | 101  | 17580     | 0.12   | ppbv   | 98     |
| 13) Ethanol                    | 3.70  | 45   | 2558909   | 129.34 | ppbv   | 97     |
| 15) Acetone                    | 3.94  | 43   | 5539621   | 30.01  | ppbv # | 71     |
| 19) Isopropyl Alcohol          | 4.08  | 45   | 2138991   | 17.21  | ppbv # | 1      |
| 20) Methylene Chloride         | 4.46  | 84   | 177693    | 2.55   | ppbv   | 91     |
| 26) Hexane                     | 5.85  | 57   | 17106233  | 96.99  | ppbv # | 44     |
| 27) Carbon Disulfide           | 4.67  | 76   | 942308    | 5.72   | ppbv   | 99     |
| 30) Cyclohexane                | 7.32  | 84   | 14925665  | 111.10 | ppbv   | 90     |
| 34) 2-Butanone                 | 5.38  | 43   | 3089294   | 11.05  | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.21  | 117  | 19159     | 0.08   | ppbv   | 86     |
| 36) Benzene                    | 7.07  | 78   | 9336251   | 26.81  | ppbv   | 97     |
| 38) Trichloroethene            | 8.03  | 130  | 64344     | 0.53   | ppbv # | 78     |
| 41) Tetrahydrofuran            | 6.21  | 42   | 226118    | 1.51   | ppbv   | 96     |
| 52) Tetrachloroethene          | 11.53 | 164  | 51119021m | 497.71 | ppbv   |        |
| 53) Toluene                    | 10.03 | 91   | 32037482m | 83.92  | ppbv   |        |
| 58) Ethyl Benzene              | 12.97 | 91   | 18936041  | 36.84  | ppbv   | 89     |
| 59) m/p-Xylene                 | 13.23 | 91   | 33657838  | 77.09  | ppbv # | 86     |
| 60) o-Xylene                   | 13.95 | 91   | 16064378  | 37.43  | ppbv   | 94     |
| 61) Styrene                    | 13.78 | 104  | 644590    | 2.15   | ppbv   | 99     |
| 62) Isopropylbenzene           | 14.92 | 105  | 2921178   | 4.78   | ppbv   | 99     |
| 64) n-propylbenzene            | 15.81 | 120  | 1060042   | 6.70   | ppbv   | 96     |
| 67) sec-Butylbenzene           | 17.55 | 105  | 822780    | 1.06   | ppbv   | 100    |
| 69) p-Isopropyltoluene         | 17.90 | 119  | 1258171   | 2.12   | ppbv # | 90     |
| 70) n-Butylbenzene             | 18.80 | 91   | 2100067   | 3.23   | ppbv # | 41     |
| 72) 4-Ethyltoluene             | 16.09 | 105  | 8035712   | 16.79  | ppbv   | 99     |
| 73) 1,3,5-Trimethylbenzene     | 16.24 | 105  | 7529026   | 16.35  | ppbv   | 98     |
| 74) 1,2,4-Trimethylbenzene     | 17.02 | 105  | 16225110  | 33.12  | ppbv # | 74     |
| 79) Naphthalene                | 22.50 | 128  | 388808    | 1.15   | ppbv   | 99     |

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

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