

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\  
 Data File : VL034696.D  
 Acq On : 26 Feb 2020 20:34  
 Operator : SY/AP  
 Sample : L1663-01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EP-104

Manual Integrations  
 APPROVED

MMDadoda

2/27/2020 5:20:03 PM

Quant Time: Feb 27 15:52:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 27 15:52:39 2020  
 QLast Update : Wed Feb 26 06:58:15 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 976801   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2010937  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2082483  | 10.00 | ppbv  | 0.00     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|--------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 1704736  | 9.98     | ppbv | 0.00   |          |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.80% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 3.02  | 85   | 22735m   | 0.148   | ppbv   |        |
| 3) Chlorodifluoromethane   | 2.95  | 51   | 31285m   | 0.297   | ppbv   |        |
| 4) Chloromethane           | 3.11  | 50   | 29818    | 0.505   | ppbv # | 87     |
| 9) Propene                 | 2.99  | 41   | 36965m   | 0.839   | ppbv   |        |
| 10) Heptane                | 8.14  | 43   | 213635   | 1.884   | ppbv   | 98     |
| 11) Trichlorofluoromethane | 3.92  | 101  | 39464m   | 0.292   | ppbv   |        |
| 13) Ethanol                | 3.59  | 45   | 3475338  | 249.659 | ppbv   | 98     |
| 15) Acetone                | 3.82  | 43   | 3250753  | 29.205  | ppbv   | 99     |
| 17) tert-Butyl alcohol     | 4.29  | 59   | 732959   | 8.593   | ppbv   | 98     |
| 19) Isopropyl Alcohol      | 3.97  | 45   | 6233299  | 94.017  | ppbv # | 99     |
| 20) Methylene Chloride     | 4.33  | 84   | 251596   | 6.078   | ppbv   | 96     |
| 26) Hexane                 | 5.68  | 57   | 402015   | 4.427   | ppbv # | 50     |
| 29) Chloroform             | 5.75  | 83   | 17855m   | 0.123   | ppbv   |        |
| 30) Cyclohexane            | 7.14  | 84   | 79756m   | 1.133   | ppbv   |        |
| 34) 2-Butanone             | 5.24  | 43   | 427906   | 3.381   | ppbv   | 98     |
| 35) Carbon Tetrachloride   | 7.04  | 117  | 12965m   | 0.096   | ppbv   |        |
| 36) Benzene                | 6.90  | 78   | 261807   | 1.507   | ppbv   | 95     |
| 38) Trichloroethene        | 7.86  | 130  | 9026m    | 0.135   | ppbv   |        |
| 41) Tetrahydrofuran        | 6.05  | 42   | 177640   | 2.659   | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane | 7.88  | 57   | 453744   | 1.495   | ppbv # | 79     |
| 50) 4-Methyl-2-Pentanone   | 8.76  | 43   | 126851   | 0.708   | ppbv   | 95     |
| 52) Tetrachloroethene      | 11.25 | 164  | 18604m   | 0.292   | ppbv   |        |
| 53) Toluene                | 9.83  | 91   | 2103004  | 11.384  | ppbv   | 99     |
| 58) Ethyl Benzene          | 12.75 | 91   | 518088   | 2.056   | ppbv   | 95     |
| 59) m/p-Xylene             | 13.00 | 91   | 1563751  | 7.116   | ppbv   | 100    |
| 60) o-Xylene               | 13.73 | 91   | 586567   | 2.690   | ppbv   | 98     |
| 61) Styrene                | 13.58 | 104  | 40638    | 0.290   | ppbv   | 95     |
| 62) Isopropylbenzene       | 14.71 | 105  | 31553m   | 0.099   | ppbv   |        |
| 64) n-propylbenzene        | 15.62 | 120  | 28931m   | 0.353   | ppbv   |        |
| 69) p-Isopropyltoluene     | 17.71 | 119  | 814123   | 2.502   | ppbv   | 99     |
| 70) n-Butylbenzene         | 18.62 | 91   | 65963m   | 0.186   | ppbv   |        |
| 72) 4-Ethyltoluene         | 15.89 | 105  | 189681   | 0.782   | ppbv   | 99     |
| 73) 1,3,5-Trimethylbenzene | 16.04 | 105  | 172537m  | 0.739   | ppbv   |        |
| 74) 1,2,4-Trimethylbenzene | 16.81 | 105  | 673242   | 2.611   | ppbv # | 66     |
| 76) 1,4-Dichlorobenzene    | 17.19 | 146  | 49999m   | 0.336   | ppbv   |        |
| 79) Naphthalene            | 22.28 | 128  | 97733m   | 0.431   | ppbv   |        |

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

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