

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\  
 Data File : VL035508.D  
 Acq On : 27 Aug 2020 4:06  
 Operator : SY/AP  
 Sample : VSTDIC0.5  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Manual Integrations  
 APPROVED

MMDadoda  
 8/28/2020 3:17:30 PM

Quant Time: Aug 27 05:50:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug 27 2020  
 QLast Update : Thu Aug 27 05:32:47 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1089304  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 4709132  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 4729757  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 3430107  | 10.23    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.30% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85   | 123122   | 0.618 | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 2.99 | 51   | 62073    | 0.505 | ppbv   | 97     |
| 4) Chloromethane               | 3.14 | 50   | 32720    | 0.511 | ppbv   | 91     |
| 5) Vinyl Chloride              | 3.26 | 62   | 37235    | 0.495 | ppbv   | 94     |
| 6) Bromomethane                | 3.48 | 94   | 33743    | 0.489 | ppbv   | 92     |
| 7) Chloroethane                | 3.56 | 64   | 14211    | 0.494 | ppbv   | 90     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85   | 124739   | 0.527 | ppbv   | 100    |
| 9) Propene                     | 3.02 | 41   | 24197    | 0.506 | ppbv   | 99     |
| 10) Heptane                    | 8.15 | 43   | 59773    | 0.469 | ppbv   | 96     |
| 11) Trichlorofluoromethane     | 3.96 | 101  | 143092   | 0.498 | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101  | 108691   | 0.507 | ppbv   | 100    |
| 13) Ethanol                    | 3.62 | 45   | 6379m    | 0.475 | ppbv   |        |
| 14) Bromoethene                | 3.74 | 108  | 42352    | 0.454 | ppbv   | 95     |
| 15) Acetone                    | 3.87 | 43   | 66121    | 0.566 | ppbv   | 91     |
| 16) 1,3-Butadiene              | 3.33 | 39   | 21595    | 0.465 | ppbv   | 99     |
| 17) tert-Butyl alcohol         | 4.31 | 59   | 71335    | 0.480 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96   | 44180    | 0.465 | ppbv   | 96     |
| 19) Isopropyl Alcohol          | 3.99 | 45   | 35221    | 0.466 | ppbv # | 93     |
| 20) Methylene Chloride         | 4.35 | 84   | 52617    | 0.422 | ppbv   | 96     |
| 21) Allyl Chloride             | 4.42 | 41   | 26094    | 0.443 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96   | 48366    | 0.482 | ppbv   | 92     |
| 23) Vinyl Acetate              | 5.09 | 43   | 72137m   | 0.469 | ppbv   |        |
| 24) 1,1-Dichloroethane         | 5.02 | 63   | 80777    | 0.501 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.70 | 43   | 108352m  | 0.490 | ppbv   |        |
| 26) Hexane                     | 5.70 | 57   | 59885    | 0.445 | ppbv   | 95     |
| 27) Carbon Disulfide           | 4.56 | 76   | 71352    | 0.399 | ppbv   | 96     |
| 28) Methyl tert-Butyl Ether    | 5.06 | 73   | 97548    | 0.447 | ppbv   | 99     |
| 29) Chloroform                 | 5.76 | 83   | 124862   | 0.489 | ppbv   | 93     |
| 30) Cyclohexane                | 7.15 | 84   | 56265    | 0.417 | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61   | 57460    | 0.452 | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97   | 108211   | 0.465 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.27 | 43   | 66958    | 0.481 | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.04 | 117  | 107183   | 0.468 | ppbv   | 98     |
| 36) Benzene                    | 6.91 | 78   | 146814   | 0.474 | ppbv   | 95     |
| 37) 1,2-Dichloroethane         | 6.32 | 62   | 74141    | 0.505 | ppbv   | 98     |
| 38) Trichloroethene            | 7.85 | 130  | 79394    | 0.464 | ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 7.63 | 63   | 50839    | 0.490 | ppbv   | 98     |
| 40) 1,4-Dioxane                | 7.89 | 88   | 22963m   | 0.449 | ppbv   |        |
| 41) Tetrahydrofuran            | 6.09 | 42   | 32849    | 0.435 | ppbv   | 97     |
| 42) Bromodichloromethane       | 7.81 | 83   | 106238   | 0.443 | ppbv # | 91     |
| 43) Methyl Methacrylate        | 8.04 | 69   | 49791    | 0.415 | ppbv   | 93     |

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|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 197189   | 0.486 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 42974m   | 0.350 | ppbv   |          |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 58027    | 0.382 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 75143    | 0.485 | ppbv   | 94       |
| 48) Dibromochloromethane      | 10.33 | 129  | 98064    | 0.398 | ppbv   | 98       |
| 49) Bromoform                 | 13.07 | 173  | 78375    | 0.344 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.78  | 43   | 91663    | 0.457 | ppbv   | 97       |
| 51) 2-Hexanone                | 10.18 | 43   | 69698    | 0.424 | ppbv # | 94       |
| 52) Tetrachloroethene         | 11.25 | 164  | 86547m   | 0.481 | ppbv   |          |
| 53) Toluene                   | 9.83  | 91   | 174869   | 0.446 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 10.64 | 107  | 114977   | 0.467 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 12.16 | 131  | 92653    | 0.469 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.17 | 112  | 192050   | 0.546 | ppbv # | 92       |
| 58) Ethyl Benzene             | 12.74 | 91   | 234902   | 0.469 | ppbv   | 94       |
| 59) m/p-Xylene                | 13.02 | 91   | 410211m  | 0.963 | ppbv   |          |
| 60) o-Xylene                  | 13.72 | 91   | 202527   | 0.483 | ppbv   | 100      |
| 61) Styrene                   | 13.55 | 104  | 134247   | 0.416 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.70 | 105  | 341202   | 0.503 | ppbv   | 93       |
| 63) 1,1,2,2-Tetrachloroethane | 13.71 | 83   | 156970   | 0.512 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.60 | 120  | 96635    | 0.468 | ppbv # | 67       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 294548   | 0.457 | ppbv   | 97       |
| 66) Benzyl Chloride           | 17.02 | 91   | 47555m   | 0.304 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.33 | 105  | 407407   | 0.476 | ppbv   | 93       |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 352986   | 0.473 | ppbv   | 92       |
| 70) n-Butylbenzene            | 18.59 | 91   | 341077   | 0.476 | ppbv   | 93       |
| 71) 2-Chlorotoluene           | 15.49 | 91   | 233276   | 0.475 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 15.88 | 105  | 244848   | 0.458 | ppbv   | 96       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 225026   | 0.455 | ppbv   | 87       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 268386   | 0.494 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 206207   | 0.507 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 197353   | 0.486 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 196660   | 0.491 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 121547   | 0.442 | ppbv   | 98       |
| 79) Naphthalene               | 22.26 | 128  | 254034   | 0.376 | ppbv # | 91       |
| 80) Naphthalene, 2-methyl-    | 25.01 | 142  | 61673    | 0.232 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 165988   | 0.418 | ppbv   | 98       |
| -----                         |       |      |          |       |        |          |

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

