

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL120718\  
 Data File : VL032951.D  
 Acq On : 8 Dec 2018 2:24  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 08 04:49:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL120718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Dec 07 09:35:17 2018  
 QLast Update : Fri Dec 07 09:35:17 2018  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 121   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.335 | 1.277 | 4.3   | 121   | 0.00     |
| 3    | Chlorodifluoromethane       | 0.757 | 0.735 | 2.9   | 126   | 0.00     |
| 4    | Chloromethane               | 0.441 | 0.414 | 6.1   | 130   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.449 | 0.416 | 7.3   | 125   | 0.00     |
| 6 T  | Bromomethane                | 0.281 | 0.269 | 4.3   | 122   | 0.00     |
| 7    | Chloroethane                | 0.161 | 0.155 | 3.7   | 123   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.109 | 1.017 | 8.3   | 119   | 0.00     |
| 9 T  | Propene                     | 0.299 | 0.324 | -8.4  | 141   | 0.00     |
| 10 T | Heptane                     | 1.125 | 1.254 | -11.5 | 131   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.258 | 1.082 | 14.0  | 110   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.073 | 0.936 | 12.8  | 116   | 0.00     |
| 13   | Ethanol                     | 0.103 | 0.076 | 26.2  | 133   | 0.00     |
| 14 T | Bromoethene                 | 0.356 | 0.336 | 5.6   | 114   | 0.00     |
| 15 T | Acetone                     | 0.858 | 0.695 | 19.0  | 115   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.341 | 0.339 | 0.6   | 123   | 0.00     |
| 17   | tert-Butyl alcohol          | 0.219 | 0.238 | -8.7  | 134   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.420 | 0.435 | -3.6  | 138   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.539 | 0.510 | 5.4   | 122   | 0.00     |
| 20 T | Methylene Chloride          | 0.420 | 0.373 | 11.2  | 118   | 0.00     |
| 21 T | Allyl Chloride              | 0.699 | 0.693 | 0.9   | 121   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.522 | 0.425 | 18.6  | 110   | 0.00     |
| 23 T | Vinyl Acetate               | 1.453 | 1.495 | -2.9  | 128   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.264 | 1.105 | 12.6  | 119   | 0.00     |
| 25 T | Ethyl Acetate               | 2.028 | 2.053 | -1.2  | 124   | 0.00     |
| 26 T | Hexane                      | 0.936 | 0.929 | 0.7   | 120   | 0.00     |
| 27 T | Carbon Disulfide            | 1.170 | 1.181 | -0.9  | 125   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.406 | 1.399 | 0.5   | 122   | 0.00     |
| 29 T | Chloroform                  | 1.670 | 1.550 | 7.2   | 116   | 0.00     |
| 30 T | Cyclohexane                 | 0.776 | 0.815 | -5.0  | 124   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.859 | 0.983 | -14.4 | 136   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.767 | 1.392 | 21.2  | 101   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 117   | 0.00     |
| 34 T | 2-Butanone                  | 0.436 | 0.542 | -24.3 | 145   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.786 | 0.688 | 12.5  | 112   | 0.00     |
| 36 T | Benzene                     | 0.736 | 0.792 | -7.6  | 125   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.501 | 0.445 | 11.2  | 105   | 0.00     |
| 38 T | Trichloroethene             | 0.306 | 0.330 | -7.8  | 122   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.279 | 0.303 | -8.6  | 128   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.103 | 0.109 | -5.8  | 130   | -0.01    |
| 41 T | Tetrahydrofuran             | 0.271 | 0.293 | -8.1  | 120   | 0.00     |
| 42 T | Bromodichloromethane        | 0.694 | 0.688 | 0.9   | 116   | 0.00     |
| 43   | Methyl Methacrylate         | 0.273 | 0.319 | -16.8 | 123   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.249 | 1.349 | -8.0  | 123   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.334 | 0.428 | -28.1 | 119   | 0.00     |

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Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 08 04:49:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL120718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Dec 07 09:35:17 2018  
 QLast Update : Fri Dec 07 09:35:17 2018  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.409 | 0.497 | -21.5  | 123   | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.307 | 0.331 | -7.8   | 124   | 0.00     |
| 48 T | Dibromochloromethane      | 0.576 | 0.605 | -5.0   | 118   | 0.00     |
| 49 T | Bromoform                 | 0.474 | 0.502 | -5.9   | 115   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.697 | 0.768 | -10.2  | 125   | 0.00     |
| 51 T | 2-Hexanone                | 0.472 | 0.577 | -22.2  | 121   | 0.00     |
| 52 T | Tetrachloroethene         | 0.268 | 0.301 | -12.3  | 128   | 0.00     |
| 53 T | Toluene                   | 0.780 | 0.933 | -19.6  | 123   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.480 | 0.515 | -7.3   | 120   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 108   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.446 | 0.432 | 3.1    | 115   | 0.00     |
| 57 T | Chlorobenzene             | 0.722 | 0.711 | 1.5    | 119   | 0.00     |
| 58 T | Ethyl Benzene             | 1.067 | 1.280 | -20.0  | 122   | 0.00     |
| 59 T | m/p-Xylene                | 0.967 | 1.059 | -9.5   | 119   | 0.00     |
| 60 T | o-Xylene                  | 0.977 | 1.095 | -12.1  | 124   | 0.00     |
| 61 T | Styrene                   | 0.650 | 0.797 | -22.6  | 115   | 0.00     |
| 62   | Isopropylbenzene          | 1.363 | 1.600 | -17.4  | 127   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.758 | 0.751 | 0.9    | 125   | 0.00     |
| 64   | n-propylbenzene           | 0.354 | 0.379 | -7.1   | 111   | 0.00     |
| 65   | tert-Butylbenzene         | 1.263 | 1.381 | -9.3   | 111   | 0.00     |
| 66 T | Benzyl Chloride           | 0.700 | 0.798 | -14.0  | 111   | 0.00     |
| 67   | sec-Butylbenzene          | 1.863 | 1.782 | 4.3    | 102   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.739 | 0.736 | 0.4    | 110   | 0.00     |
| 69   | p-Isopropyltoluene        | 1.509 | 1.490 | 1.3    | 104   | 0.00     |
| 70   | n-Butylbenzene            | 1.389 | 1.531 | -10.2  | 113   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.013 | 1.100 | -8.6   | 110   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.090 | 1.221 | -12.0  | 113   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.065 | 1.152 | -8.2   | 117   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.202 | 1.238 | -3.0   | 110   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.708 | 0.703 | 0.7    | 113   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.660 | 0.642 | 2.7    | 104   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.661 | 0.634 | 4.1    | 106   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.364 | 0.414 | -13.7  | 157#  | 0.00     |
| 79 T | Naphthalene               | 0.776 | 0.915 | -17.9  | 118   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.166 | 0.264 | -59.0# | 129   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.412 | 0.451 | -9.5   | 118   | -0.01    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0