

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL030420\  
 Data File : VL034788.D  
 Acq On : 4 Mar 2020 14:39  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Mar 04 15:47:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Mar 04 06:36:39 2020  
 QLast Update : Wed Mar 04 06:36:39 2020  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0    | 90    | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 1.632 | 1.105 | 32.3#  | 82    | -0.01    |
| 3    | Chlorodifluoromethane       | 1.139 | 1.017 | 10.7   | 90    | -0.01    |
| 4    | Chloromethane               | 0.614 | 0.566 | 7.8    | 91    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.648 | 0.596 | 8.0    | 99    | 0.00     |
| 6 T  | Bromomethane                | 0.354 | 0.340 | 4.0    | 95    | -0.01    |
| 7    | Chloroethane                | 0.224 | 0.204 | 8.9    | 90    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.418 | 1.271 | 10.4   | 92    | -0.01    |
| 9 T  | Propene                     | 0.448 | 0.404 | 9.8    | 84    | 0.00     |
| 10 T | Heptane                     | 1.140 | 1.267 | -11.1  | 98    | -0.02    |
| 11 T | Trichlorofluoromethane      | 1.460 | 1.351 | 7.5    | 96    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.008 | 0.918 | 8.9    | 96    | -0.01    |
| 13   | Ethanol                     | 0.154 | 0.137 | 11.0   | 98    | 0.00     |
| 14 T | Bromoethene                 | 0.413 | 0.397 | 3.9    | 91    | -0.01    |
| 15 T | Acetone                     | 1.197 | 1.477 | -23.4  | 134   | -0.02    |
| 16 T | 1,3-Butadiene               | 0.542 | 0.527 | 2.8    | 91    | -0.01    |
| 17   | tert-Butyl alcohol          | 0.944 | 0.973 | -3.1   | 89    | -0.02    |
| 18 T | 1,1-Dichloroethene          | 0.444 | 0.431 | 2.9    | 97    | -0.01    |
| 19 T | Isopropyl Alcohol           | 0.717 | 0.780 | -8.8   | 93    | -0.02    |
| 20 T | Methylene Chloride          | 0.427 | 0.376 | 11.9   | 96    | 0.00     |
| 21 T | Allyl Chloride              | 0.758 | 0.741 | 2.2    | 95    | -0.02    |
| 22 T | trans-1,2-Dichloroethene    | 0.434 | 0.417 | 3.9    | 98    | -0.02    |
| 23 T | Vinyl Acetate               | 1.606 | 2.039 | -27.0  | 114   | -0.02    |
| 24 T | 1,1-Dichloroethane          | 1.246 | 1.152 | 7.5    | 91    | -0.01    |
| 25 T | Ethyl Acetate               | 2.069 | 2.304 | -11.4  | 106   | -0.02    |
| 26 T | Hexane                      | 0.904 | 1.378 | -52.4# | 142   | -0.01    |
| 27 T | Carbon Disulfide            | 1.056 | 1.100 | -4.2   | 97    | -0.02    |
| 28 T | Methyl tert-Butyl Ether     | 1.346 | 1.253 | 6.9    | 87    | -0.01    |
| 29 T | Chloroform                  | 1.522 | 1.409 | 7.4    | 93    | -0.02    |
| 30 T | Cyclohexane                 | 0.692 | 0.818 | -18.2  | 102   | -0.02    |
| 31 T | cis-1,2-Dichloroethene      | 0.927 | 0.939 | -1.3   | 92    | -0.02    |
| 32 T | 1,1,1-Trichloroethane       | 1.504 | 1.365 | 9.2    | 92    | -0.02    |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 90    | -0.02    |
| 34 T | 2-Butanone                  | 0.651 | 0.616 | 5.4    | 89    | -0.02    |
| 35 T | Carbon Tetrachloride        | 0.755 | 0.694 | 8.1    | 96    | -0.01    |
| 36 T | Benzene                     | 0.855 | 0.922 | -7.8   | 100   | -0.02    |
| 37 T | 1,2-Dichloroethane          | 0.584 | 0.564 | 3.4    | 94    | -0.02    |
| 38 T | Trichloroethene             | 0.333 | 0.317 | 4.8    | 92    | -0.01    |
| 39 T | 1,2-Dichloropropane         | 0.345 | 0.334 | 3.2    | 91    | -0.02    |
| 40 T | 1,4-Dioxane                 | 0.119 | 0.126 | -5.9   | 93    | -0.02    |
| 41 T | Tetrahydrofuran             | 0.332 | 0.336 | -1.2   | 89    | -0.02    |
| 42 T | Bromodichloromethane        | 0.739 | 0.746 | -0.9   | 93    | -0.02    |
| 43   | Methyl Methacrylate         | 0.362 | 0.392 | -8.3   | 93    | -0.02    |
| 44 T | 2,2,4-Trimethylpentane      | 1.493 | 1.540 | -3.1   | 96    | -0.02    |
| 45 T | t-1,3-Dichloropropene       | 0.380 | 0.471 | -23.9  | 95    | -0.01    |

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 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvqRF | CCRF  | %Dev    | Area% | Dev(min) |
|------|---------------------------|-------|-------|---------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.464 | 0.542 | -16.8   | 94    | -0.02    |
| 47 T | 1,1,2-Trichloroethane     | 0.364 | 0.348 | 4.4     | 91    | -0.02    |
| 48 T | Dibromochloromethane      | 0.569 | 0.589 | -3.5    | 91    | -0.02    |
| 49 T | Bromoform                 | 0.497 | 0.505 | -1.6    | 87    | -0.02    |
| 50 T | 4-Methyl-2-Pentanone      | 0.932 | 0.952 | -2.1    | 92    | -0.02    |
| 51 T | 2-Hexanone                | 0.731 | 0.786 | -7.5    | 91    | -0.02    |
| 52 T | Tetrachloroethene         | 0.316 | 0.308 | 2.5     | 95    | -0.02    |
| 53 T | Toluene                   | 0.904 | 1.001 | -10.7   | 95    | -0.02    |
| 54 T | 1,2-Dibromoethane         | 0.538 | 0.534 | 0.7     | 91    | -0.02    |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0     | 90    | -0.02    |
| 56   | 1,1,1,2-Tetrachloroethane | 0.443 | 0.405 | 8.6     | 90    | -0.02    |
| 57 T | Chlorobenzene             | 0.764 | 0.682 | 10.7    | 92    | -0.02    |
| 58 T | Ethyl Benzene             | 1.232 | 1.242 | -0.8    | 92    | -0.02    |
| 59 T | m/p-Xylene                | 1.067 | 1.018 | 4.6     | 92    | -0.02    |
| 60 T | o-Xylene                  | 1.079 | 1.000 | 7.3     | 91    | -0.02    |
| 61 T | Styrene                   | 0.670 | 0.699 | -4.3    | 89    | -0.02    |
| 62   | Isopropylbenzene          | 1.589 | 1.424 | 10.4    | 89    | -0.02    |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.851 | 0.698 | 18.0    | 88    | -0.02    |
| 64   | n-propylbenzene           | 0.398 | 0.362 | 9.0     | 85    | -0.01    |
| 65   | tert-Butylbenzene         | 1.342 | 1.231 | 8.3     | 88    | -0.02    |
| 66 T | Benzyl Chloride           | 0.434 | 0.538 | -24.0   | 95    | -0.02    |
| 67   | sec-Butylbenzene          | 1.956 | 1.775 | 9.3     | 88    | -0.02    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.834 | 0.814 | 2.4     | 93    | -0.01    |
| 69   | p-Isopropyltoluene        | 1.583 | 1.454 | 8.1     | 87    | -0.02    |
| 70   | n-Butylbenzene            | 1.731 | 1.589 | 8.2     | 87    | -0.02    |
| 71   | 2-Chlorotoluene           | 1.200 | 1.104 | 8.0     | 86    | -0.02    |
| 72 T | 4-Ethyltoluene            | 1.202 | 1.148 | 4.5     | 88    | -0.02    |
| 73 T | 1,3,5-Trimethylbenzene    | 1.153 | 1.078 | 6.5     | 87    | -0.02    |
| 74 T | 1,2,4-Trimethylbenzene    | 1.253 | 1.127 | 10.1    | 88    | -0.02    |
| 75 T | 1,3-Dichlorobenzene       | 0.742 | 0.647 | 12.8    | 88    | -0.02    |
| 76 T | 1,4-Dichlorobenzene       | 0.710 | 0.643 | 9.4     | 87    | -0.02    |
| 77 T | 1,2-Dichlorobenzene       | 0.710 | 0.640 | 9.9     | 90    | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 0.592 | 0.562 | 5.1     | 102   | 0.00     |
| 79 T | Naphthalene               | 0.942 | 1.118 | -18.7   | 90    | -0.02    |
| 80 T | Naphthalene,2-methyl-     | 0.225 | 0.498 | -121.3# | 147   | -0.01    |
| 81 T | 1,2,4-Trichlorobenzene    | 0.595 | 0.640 | -7.6    | 90    | -0.02    |

(#) = Out of Range

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