

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112918\  
 Data File : VL032830.D  
 Acq On : 29 Nov 2018 9:47  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Nov 30 06:40:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL111418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 14 07:00:23 2018  
 QLast Update : Wed Nov 14 07:00:23 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   | 95    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.437 | 0.908 | 36.8# | 68    | 0.00     |
| 3    | Chlorodifluoromethane       | 0.793 | 0.685 | 13.6  | 91    | 0.00     |
| 4    | Chloromethane               | 0.440 | 0.367 | 16.6  | 90    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.466 | 0.390 | 16.3  | 93    | 0.00     |
| 6 T  | Bromomethane                | 0.285 | 0.356 | -24.9 | 129   | 0.00     |
| 7    | Chloroethane                | 0.168 | 0.205 | -22.0 | 128   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.133 | 0.984 | 13.2  | 95    | 0.00     |
| 9 T  | Propene                     | 0.317 | 0.276 | 12.9  | 90    | 0.00     |
| 10 T | Heptane                     | 1.211 | 1.177 | 2.8   | 93    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.355 | 1.501 | -10.8 | 127   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.106 | 1.083 | 2.1   | 109   | 0.00     |
| 13   | Ethanol                     | 0.104 | 0.093 | 10.6  | 121   | 0.00     |
| 14 T | Bromoethene                 | 0.367 | 0.456 | -24.3 | 131   | 0.00     |
| 15 T | Acetone                     | 0.913 | 0.957 | -4.8  | 129   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.354 | 0.319 | 9.9   | 83    | 0.00     |
| 17   | tert-Butyl alcohol          | 0.286 | 0.289 | -1.0  | 97    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.544 | 0.530 | 2.6   | 99    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.608 | 0.651 | -7.1  | 120   | 0.00     |
| 20 T | Methylene Chloride          | 0.473 | 0.446 | 5.7   | 99    | 0.00     |
| 21 T | Allyl Chloride              | 0.767 | 0.779 | -1.6  | 108   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.531 | 0.522 | 1.7   | 97    | 0.00     |
| 23 T | Vinyl Acetate               | 1.665 | 1.574 | 5.5   | 86    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.323 | 1.208 | 8.7   | 88    | 0.00     |
| 25 T | Ethyl Acetate               | 2.128 | 2.047 | 3.8   | 99    | 0.00     |
| 26 T | Hexane                      | 0.947 | 0.959 | -1.3  | 101   | 0.00     |
| 27 T | Carbon Disulfide            | 1.201 | 1.312 | -9.2  | 111   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.511 | 1.495 | 1.1   | 89    | 0.00     |
| 29 T | Chloroform                  | 1.689 | 1.621 | 4.0   | 102   | 0.00     |
| 30 T | Cyclohexane                 | 0.829 | 0.820 | 1.1   | 96    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.953 | 0.930 | 2.4   | 94    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.851 | 1.654 | 10.6  | 96    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 34 T | 2-Butanone                  | 0.519 | 0.493 | 5.0   | 91    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.804 | 0.724 | 10.0  | 96    | 0.00     |
| 36 T | Benzene                     | 0.796 | 0.764 | 4.0   | 93    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.536 | 0.491 | 8.4   | 92    | 0.00     |
| 38 T | Trichloroethene             | 0.322 | 0.328 | -1.9  | 98    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.303 | 0.287 | 5.3   | 93    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.108 | 0.105 | 2.8   | 96    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.298 | 0.281 | 5.7   | 87    | 0.00     |
| 42 T | Bromodichloromethane        | 0.727 | 0.704 | 3.2   | 96    | 0.00     |
| 43   | Methyl Methacrylate         | 0.297 | 0.306 | -3.0  | 92    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.331 | 1.299 | 2.4   | 94    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.399 | 0.460 | -15.3 | 92    | 0.00     |

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 Data File : VL032830.D  
 Acq On : 29 Nov 2018 9:47  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Nov 30 06:40:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL111418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 14 07:00:23 2018  
 QLast Update : Wed Nov 14 07:00:23 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   | 0.482 | 0.520 | -7.9  | 91    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.359 | 0.344 | 4.2   | 93    | 0.00     |
| 48 T | Dibromochloromethane      | 0.610 | 0.628 | -3.0  | 91    | 0.00     |
| 49 T | Bromoform                 | 0.504 | 0.528 | -4.8  | 99    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.810 | 0.802 | 1.0   | 91    | 0.00     |
| 51 T | 2-Hexanone                | 0.522 | 0.561 | -7.5  | 89    | 0.00     |
| 52 T | Tetrachloroethene         | 0.277 | 0.286 | -3.2  | 98    | 0.00     |
| 53 T | Toluene                   | 0.831 | 0.893 | -7.5  | 93    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.507 | 0.517 | -2.0  | 96    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.466 | 0.451 | 3.2   | 100   | 0.00     |
| 57 T | Chlorobenzene             | 0.765 | 0.744 | 2.7   | 100   | 0.00     |
| 58 T | Ethyl Benzene             | 1.203 | 1.261 | -4.8  | 95    | 0.00     |
| 59 T | m/p-Xylene                | 1.071 | 1.046 | 2.3   | 95    | 0.00     |
| 60 T | o-Xylene                  | 1.077 | 1.044 | 3.1   | 95    | 0.00     |
| 61 T | Styrene                   | 0.701 | 0.774 | -10.4 | 94    | 0.00     |
| 62   | Isopropylbenzene          | 1.456 | 1.481 | -1.7  | 98    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.840 | 0.714 | 15.0  | 94    | 0.00     |
| 64   | n-propylbenzene           | 0.383 | 0.405 | -5.7  | 100   | 0.00     |
| 65   | tert-Butylbenzene         | 1.305 | 1.323 | -1.4  | 96    | 0.00     |
| 66 T | Benzyl Chloride           | 0.722 | 0.736 | -1.9  | 86    | 0.00     |
| 67   | sec-Butylbenzene          | 1.881 | 1.849 | 1.7   | 95    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.748 | 0.758 | -1.3  | 89    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.496 | 1.502 | -0.4  | 95    | 0.00     |
| 70   | n-Butylbenzene            | 1.519 | 1.485 | 2.2   | 92    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.086 | 1.161 | -6.9  | 98    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.181 | 1.192 | -0.9  | 92    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.154 | 1.147 | 0.6   | 93    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.235 | 1.168 | 5.4   | 94    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.709 | 0.657 | 7.3   | 93    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.662 | 0.642 | 3.0   | 92    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.656 | 0.627 | 4.4   | 95    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.354 | 0.385 | -8.8  | 102   | 0.00     |
| 79 T | Naphthalene               | 0.812 | 0.777 | 4.3   | 80    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.203 | 0.218 | -7.4  | 66    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.408 | 0.401 | 1.7   | 85    | 0.00     |

(#) = Out of Range

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