

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012524\  
 Data File : VL041032.D  
 Acq On : 25 Jan 2024 16:34  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Jan 26 00:29:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Jan 26 00:23:09 2024  
 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   | 97    | 0.03     |
| 2 T  | Dichlorodifluoromethane     | 2.209 | 2.127 | 3.7   | 106   | 0.02     |
| 3    | Chlorodifluoromethane       | 1.682 | 1.613 | 4.1   | 106   | 0.02     |
| 4    | Chloromethane               | 0.630 | 0.599 | 4.9   | 104   | 0.02     |
| 5 T  | Vinyl Chloride              | 0.618 | 0.626 | -1.3  | 102   | 0.02     |
| 6 T  | Bromomethane                | 0.269 | 0.187 | 30.5# | 74    | 0.02     |
| 7    | Chloroethane                | 0.223 | 0.216 | 3.1   | 104   | 0.02     |
| 8 T  | Dichlorotetrafluoroethane   | 1.650 | 1.571 | 4.8   | 104   | 0.02     |
| 9 T  | Propene                     | 0.552 | 0.542 | 1.8   | 108   | 0.02     |
| 10 T | Heptane                     | 1.358 | 1.340 | 1.3   | 102   | 0.03     |
| 11 T | Trichlorofluoromethane      | 1.780 | 1.699 | 4.6   | 102   | 0.02     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.290 | 1.186 | 8.1   | 99    | 0.02     |
| 13   | Ethanol                     | 0.131 | 0.096 | 26.7  | 86    | 0.02     |
| 14 T | Bromoethene                 | 0.495 | 0.502 | -1.4  | 105   | 0.02     |
| 15 T | Acetone                     | 1.279 | 1.190 | 7.0   | 110   | 0.02     |
| 16 T | 1,3-Butadiene               | 0.612 | 0.614 | -0.3  | 105   | 0.02     |
| 17   | tert-Butyl alcohol          | 1.049 | 1.006 | 4.1   | 93    | 0.03     |
| 18 T | 1,1-Dichloroethene          | 0.552 | 0.527 | 4.5   | 101   | 0.02     |
| 19 T | Isopropyl Alcohol           | 0.740 | 0.686 | 7.3   | 96    | 0.03     |
| 20 T | Methylene Chloride          | 0.492 | 0.431 | 12.4  | 101   | 0.03     |
| 21 T | Allyl Chloride              | 0.777 | 0.691 | 11.1  | 93    | 0.02     |
| 22 T | trans-1,2-Dichloroethene    | 0.569 | 0.527 | 7.4   | 97    | 0.02     |
| 23 T | Vinyl Acetate               | 1.318 | 1.213 | 8.0   | 95    | 0.03     |
| 24 T | 1,1-Dichloroethane          | 1.169 | 1.081 | 7.5   | 98    | 0.03     |
| 25 T | Ethyl Acetate               | 2.319 | 2.278 | 1.8   | 103   | 0.03     |
| 26 T | Hexane                      | 0.988 | 0.977 | 1.1   | 104   | 0.03     |
| 27 T | Carbon Disulfide            | 1.286 | 1.307 | -1.6  | 100   | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 0.820 | 0.726 | 11.5  | 93    | 0.03     |
| 29 T | Chloroform                  | 1.753 | 1.709 | 2.5   | 104   | 0.03     |
| 30 T | Cyclohexane                 | 0.828 | 0.805 | 2.8   | 99    | 0.03     |
| 31 T | cis-1,2-Dichloroethene      | 0.928 | 1.002 | -8.0  | 115   | 0.03     |
| 32 T | 1,1,1-Trichloroethane       | 1.675 | 1.679 | -0.2  | 102   | 0.03     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.03     |
| 34 T | 2-Butanone                  | 0.476 | 0.502 | -5.5  | 101   | 0.03     |
| 35 T | Carbon Tetrachloride        | 0.667 | 0.732 | -9.7  | 102   | 0.03     |
| 36 T | Benzene                     | 0.826 | 0.851 | -3.0  | 100   | 0.03     |
| 37 T | 1,2-Dichloroethane          | 0.504 | 0.527 | -4.6  | 101   | 0.02     |
| 38 T | Trichloroethene             | 0.331 | 0.329 | 0.6   | 97    | 0.03     |
| 39 T | 1,2-Dichloropropane         | 0.325 | 0.334 | -2.8  | 100   | 0.03     |
| 40 T | 1,4-Dioxane                 | 0.135 | 0.135 | 0.0   | 96    | 0.03     |
| 41 T | Tetrahydrofuran             | 0.323 | 0.340 | -5.3  | 96    | 0.03     |
| 42 T | Bromodichloromethane        | 0.721 | 0.780 | -8.2  | 102   | 0.03     |
| 43   | Methyl Methacrylate         | 0.319 | 0.354 | -11.0 | 99    | 0.03     |
| 44 T | 2,2,4-Trimethylpentane      | 1.390 | 1.451 | -4.4  | 103   | 0.03     |
| 45 T | t-1,3-Dichloropropene       | 0.218 | 0.158 | 27.5  | 60    | 0.03     |
| 46 T | cis-1,3-Dichloropropene     | 0.272 | 0.211 | 22.4  | 68    | 0.03     |
| 47 T | 1,1,2-Trichloroethane       | 0.351 | 0.366 | -4.3  | 100   | 0.03     |
| 48 T | Dibromochloromethane        | 0.593 | 0.645 | -8.8  | 100   | 0.03     |

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

|      | Compound                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.465 | 0.544 | -17.0 | 102   | 0.03     |
| 50 T | 4-Methyl-2-Pentanone      | 0.839 | 0.939 | -11.9 | 103   | 0.03     |
| 51 T | 2-Hexanone                | 0.605 | 0.664 | -9.8  | 99    | 0.03     |
| 52 T | Tetrachloroethene         | 0.274 | 0.290 | -5.8  | 98    | 0.03     |
| 53 T | Toluene                   | 0.905 | 0.982 | -8.5  | 100   | 0.03     |
| 54 T | 1,2-Dibromoethane         | 0.475 | 0.478 | -0.6  | 91    | 0.03     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 94    | 0.03     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.480 | 0.490 | -2.1  | 103   | 0.03     |
| 57 T | Chlorobenzene             | 0.804 | 0.779 | 3.1   | 100   | 0.03     |
| 58 T | Ethyl Benzene             | 1.343 | 1.383 | -3.0  | 101   | 0.03     |
| 59 T | m/p-Xylene                | 1.171 | 1.192 | -1.8  | 102   | 0.03     |
| 60 T | o-Xylene                  | 1.123 | 1.156 | -2.9  | 103   | 0.03     |
| 61 T | Styrene                   | 0.516 | 0.564 | -9.3  | 98    | 0.03     |
| 62   | Isopropylbenzene          | 1.661 | 1.674 | -0.8  | 103   | 0.03     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.873 | 0.860 | 1.5   | 104   | 0.03     |
| 64   | n-propylbenzene           | 0.420 | 0.426 | -1.4  | 102   | 0.03     |
| 65   | tert-Butylbenzene         | 1.451 | 1.461 | -0.7  | 102   | 0.03     |
| 66 T | Benzyl Chloride           | 0.095 | 0.054 | 43.2# | 53    | 0.03     |
| 67   | sec-Butylbenzene          | 2.113 | 2.092 | 1.0   | 103   | 0.03     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.755 | 0.775 | -2.6  | 97    | 0.03     |
| 69   | p-Isopropyltoluene        | 1.637 | 1.650 | -0.8  | 100   | 0.03     |
| 70   | n-Butylbenzene            | 1.769 | 1.793 | -1.4  | 102   | 0.03     |
| 71   | 2-Chlorotoluene           | 1.282 | 1.292 | -0.8  | 101   | 0.03     |
| 72 T | 4-Ethyltoluene            | 1.255 | 1.293 | -3.0  | 101   | 0.03     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.113 | 1.128 | -1.3  | 101   | 0.03     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.262 | 1.252 | 0.8   | 101   | 0.03     |
| 75 T | 1,3-Dichlorobenzene       | 0.718 | 0.705 | 1.8   | 100   | 0.03     |
| 76 T | 1,4-Dichlorobenzene       | 0.709 | 0.677 | 4.5   | 98    | 0.03     |
| 77 T | 1,2-Dichlorobenzene       | 0.714 | 0.684 | 4.2   | 99    | 0.02     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.460 | 0.380 | 17.4  | 96    | 0.03     |
| 79 T | Naphthalene               | 0.720 | 0.833 | -15.7 | 90    | 0.03     |
| 80 T | Naphthalene,2-methyl-     | 0.126 | 0.147 | -16.7 | 88    | 0.02     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.420 | 0.417 | 0.7   | 93    | 0.03     |

(#) = Out of Range

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