

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022520\  
 Data File : VL034674.D  
 Acq On : 25 Feb 2020 15:47  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL022520

Quant Time: Feb 26 00:49:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LTue Feb 25 15:47:55 2020  
 QLast Update : Tue Feb 25 15:47:55 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                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0  | 101   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 7.993  | 20.1 | 99    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.072  | 9.3  | 110   | 0.00     |
| 4    | Chloromethane               | 10.000 | 8.437  | 15.6 | 95    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.725  | 12.8 | 98    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.464  | 5.4  | 108   | 0.00     |
| 7    | Chloroethane                | 10.000 | 8.800  | 12.0 | 99    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 8.480  | 15.2 | 101   | 0.00     |
| 9 T  | Propene                     | 10.000 | 9.807  | 1.9  | 106   | 0.00     |
| 10 T | Heptane                     | 10.000 | 9.890  | 1.1  | 102   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 8.260  | 17.4 | 98    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 8.290  | 17.1 | 96    | 0.00     |
| 13   | Ethanol                     | 10.000 | 8.836  | 11.6 | 114   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.161  | 8.4  | 99    | 0.00     |
| 15 T | Acetone                     | 10.000 | 7.709  | 22.9 | 98    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.247  | 7.5  | 99    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 9.546  | 4.5  | 110   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 8.781  | 12.2 | 101   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.307  | 6.9  | 103   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 7.456  | 25.4 | 94    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.154  | 8.5  | 101   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 8.422  | 15.8 | 95    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 10.523 | -5.2 | 112   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 8.845  | 11.5 | 102   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 8.985  | 10.2 | 100   | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.346  | 6.5  | 102   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 9.059  | 9.4  | 93    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.981  | 0.2  | 107   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 8.775  | 12.2 | 100   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.999  | 0.0  | 104   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.720  | 2.8  | 100   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.136  | 8.6  | 102   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0  | 100   | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 9.630  | 3.7  | 103   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 8.974  | 10.3 | 99    | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.694  | 3.1  | 102   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 8.907  | 10.9 | 97    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 9.384  | 6.2  | 100   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.708  | 2.9  | 105   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.816  | 1.8  | 101   | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 10.534 | -5.3 | 105   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.340  | 6.6  | 99    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 10.519 | -5.2 | 102   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.319  | 6.8  | 101   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 10.630 | -6.3 | 97    | 0.00     |

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

|      | Compound                  | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 10.617 | -6.2   | 99    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 9.087  | 9.1    | 101   | 0.00     |
| 48 T | Dibromochloromethane      | 10.000 | 9.789  | 2.1    | 100   | 0.00     |
| 49 T | Bromoform                 | 10.000 | 9.649  | 3.5    | 98    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 10.242 | -2.4   | 104   | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 10.909 | -9.1   | 105   | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 9.154  | 8.5    | 99    | 0.00     |
| 53 T | Toluene                   | 10.000 | 10.152 | -1.5   | 101   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 9.984  | 0.2    | 106   | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 100   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 8.943  | 10.6   | 102   | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 8.554  | 14.5   | 99    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 9.636  | 3.6    | 101   | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 17.825 | 10.9   | 98    | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 8.956  | 10.4   | 101   | 0.00     |
| 61 T | Styrene                   | 10.000 | 9.847  | 1.5    | 98    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 9.228  | 7.7    | 103   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.348  | 16.5   | 104   | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 9.427  | 5.7    | 102   | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 9.295  | 7.1    | 104   | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 11.641 | -16.4  | 112   | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 9.306  | 6.9    | 106   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.610  | 3.9    | 98    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.588  | 4.1    | 106   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.650  | 3.5    | 108   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 9.510  | 4.9    | 104   | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.389  | 6.1    | 101   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.518  | 4.8    | 103   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 9.026  | 9.7    | 104   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 8.557  | 14.4   | 102   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 8.709  | 12.9   | 101   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 8.947  | 10.5   | 107   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.711  | 12.9   | 111   | 0.00     |
| 79 T | Naphthalene               | 10.000 | 10.974 | -9.7   | 109   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 17.462 | -74.6# | 136   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.489  | 5.1    | 103   | 0.00     |

(#) = Out of Range

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