

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX043020\  
 Data File : VX015992.D  
 Acq On : 30 Apr 2020 13:32  
 Operator : JC/SP  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX043020

Quant Time: May 01 08:03:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Apr 30 12:42:44 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  | 101   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 2.066 | 1.916  | 7.3  | 92    | 0.00     |
| 3 M  | Chloromethane               | 2.025 | 1.807  | 10.8 | 91    | 0.00     |
| 4 M  | Vinyl Chloride              | 2.300 | 2.002  | 13.0 | 91    | 0.00     |
| 5 M  | Bromomethane                | 1.410 | 1.448  | -2.7 | 96    | 0.00     |
| 6 M  | Chloroethane                | 1.508 | 1.313  | 12.9 | 91    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.295 | 2.970  | 9.9  | 95    | 0.00     |
| 8 T  | Diethyl Ether               | 1.315 | 1.185  | 9.9  | 98    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.701 | 1.499  | 11.9 | 96    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.717 | 1.482  | 13.7 | 93    | 0.00     |
| 11   | Methyl Iodide               | 2.344 | 1.958  | 16.5 | 94    | 0.00     |
| 12   | Methyl Acetate              | 2.997 | 2.805  | 6.4  | 98    | 0.00     |
| 13 M | Acrolein                    | 0.240 | 0.246  | -2.5 | 128   | 0.00     |
| 14 M | Acrylonitrile               | 1.107 | 1.000  | 9.7  | 99    | 0.00     |
| 15 M | Acetone                     | 0.293 | 0.261  | 10.9 | 98    | 0.00     |
| 16 M | Carbon Disulfide            | 5.222 | 4.608  | 11.8 | 96    | 0.00     |
| 17   | Allyl chloride              | 3.185 | 2.780  | 12.7 | 94    | 0.00     |
| 18 M | Methylene Chloride          | 1.923 | 1.721  | 10.5 | 97    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.878 | 1.657  | 11.8 | 96    | 0.00     |
| 20 T | Diisopropyl ether           | 6.140 | 5.440  | 11.4 | 97    | -0.01    |
| 21 M | 1,1-Dichloroethane          | 3.424 | 2.974  | 13.1 | 94    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.131 | 1.851  | 13.1 | 96    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.542 | 0.483  | 10.9 | 97    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 6.165 | 5.670  | 8.0  | 100   | 0.00     |
| 25 M | Chloroform                  | 3.477 | 3.063  | 11.9 | 96    | -0.01    |
| 26   | Cyclohexane                 | 3.131 | 2.707  | 13.5 | 94    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.306 | 2.333  | -1.2 | 99    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0  | 98    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.472 | 0.422  | 10.6 | 96    | 0.00     |
| 30 M | 2-Butanone                  | 0.281 | 0.263  | 6.4  | 99    | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.568 | 0.506  | 10.9 | 94    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.572 | 0.507  | 11.4 | 94    | -0.01    |
| 33 M | Carbon Tetrachloride        | 0.510 | 0.451  | 11.6 | 94    | 0.00     |
| 34 M | Benzene                     | 1.378 | 1.234  | 10.4 | 95    | 0.00     |
| 35   | Methacrylonitrile           | 0.299 | 0.276  | 7.7  | 99    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.526 | 0.486  | 7.6  | 97    | 0.00     |
| 37 M | Trichloroethene             | 0.490 | 0.454  | 7.3  | 93    | 0.00     |
| 38   | Methylcyclohexane           | 0.577 | 0.513  | 11.1 | 96    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.354 | 0.322  | 9.0  | 97    | 0.00     |
| 40   | Dibromomethane              | 0.246 | 0.228  | 7.3  | 97    | 0.00     |
| 41 M | Bromodichloromethane        | 0.506 | 0.446  | 11.9 | 96    | 0.00     |
| 42 M | Vinyl Acetate               | 0.930 | 0.854  | 8.2  | 99    | 0.00     |
| 43   | Ethyl Acetate               | 0.555 | 0.511  | 7.9  | 97    | 0.00     |
| 44   | Isopropyl Acetate           | 0.900 | 0.832  | 7.6  | 98    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.010 | 0.009# | 10.0 | 99    | 0.00     |

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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) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 46   | Methyl methacrylate         | 0.427 | 0.388 | 9.1  | 98    | 0.00     |
| 47   | n-amyl Acetate              | 0.787 | 0.692 | 12.1 | 96    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.588 | 0.522 | 11.2 | 97    | 0.00     |
| 49 T | cis-1,3-Dichloropropene     | 0.608 | 0.549 | 9.7  | 97    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.346 | 0.311 | 10.1 | 96    | 0.00     |
| 51   | Ethyl methacrylate          | 0.572 | 0.510 | 10.8 | 99    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.598 | 0.551 | 7.9  | 98    | 0.00     |
| 53 M | Dibromochloromethane        | 0.394 | 0.349 | 11.4 | 98    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.380 | 0.343 | 9.7  | 99    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.311 | 0.275 | 11.6 | 99    | 0.00     |
| 56 M | Bromoform                   | 0.297 | 0.250 | 15.8 | 96    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 99    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.592 | 0.547 | 7.6  | 98    | 0.00     |
| 59 M | 2-Hexanone                  | 0.457 | 0.419 | 8.3  | 98    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.503 | 0.491 | 2.4  | 97    | 0.00     |
| 61 M | Tetrachloroethene           | 0.593 | 0.548 | 7.6  | 94    | 0.00     |
| 62 M | Toluene                     | 1.603 | 1.449 | 9.6  | 96    | 0.00     |
| 63 S | Toluene-d8                  | 1.287 | 1.304 | -1.3 | 98    | 0.00     |
| 64 M | Chlorobenzene               | 1.021 | 0.911 | 10.8 | 96    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.387 | 0.346 | 10.6 | 97    | 0.00     |
| 66 M | Ethyl Benzene               | 1.825 | 1.646 | 9.8  | 96    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.695 | 0.617 | 11.2 | 96    | 0.00     |
| 68 M | o-Xylene                    | 0.670 | 0.598 | 10.7 | 98    | 0.00     |
| 69 M | Styrene                     | 1.147 | 0.989 | 13.8 | 95    | 0.00     |
| 70   | Isopropylbenzene            | 1.810 | 1.604 | 11.4 | 96    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.336 | 0.274 | 18.5 | 110   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.545 | 0.501 | 8.1  | 99    | 0.00     |
| 73   | Bromobenzene                | 0.456 | 0.404 | 11.4 | 96    | 0.00     |
| 74   | n-propylbenzene             | 2.102 | 1.858 | 11.6 | 96    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.236 | 1.089 | 11.9 | 96    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.536 | 1.328 | 13.5 | 95    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.234 | 0.204 | 12.8 | 97    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.462 | 1.287 | 12.0 | 96    | 0.00     |
| 79   | tert-butylbenzene           | 1.312 | 1.151 | 12.3 | 98    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.535 | 1.349 | 12.1 | 96    | 0.00     |
| 81   | sec-Butylbenzene            | 1.770 | 1.551 | 12.4 | 96    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.640 | 1.430 | 12.8 | 96    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.822 | 0.729 | 11.3 | 98    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.817 | 0.732 | 10.4 | 100   | 0.00     |
| 85   | n-Butylbenzene              | 1.498 | 1.296 | 13.5 | 97    | 0.00     |
| 86 T | Hexachloroethane            | 0.289 | 0.246 | 14.9 | 98    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.795 | 0.720 | 9.4  | 98    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.141 | 0.122 | 13.5 | 97    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.586 | 0.502 | 14.3 | 94    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.252 | 0.228 | 9.5  | 96    | 0.00     |

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|------|------------------------|-------|-------|------|-------|----------|
| 91 M | Naphthalene            | 1.865 | 1.668 | 10.6 | 97    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene | 0.563 | 0.499 | 11.4 | 98    | 0.00     |

(#) = Out of Range

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