

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052323\  
 Data File : VX035805.D  
 Acq On : 23 May 2023 10:05  
 Operator : JC/MD  
 Sample : VSTDICC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/25/2023  
 Supervised By : Mahesh Dadoda 05/25/2023

Quant Time: May 23 11:18:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X052323W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue May 23 11:17:24 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon     | Response | Conc    | Units     | Dev(Min) |
|------------------------------|--------|----------|----------|---------|-----------|----------|
| -----                        |        |          |          |         |           |          |
| Internal Standards           |        |          |          |         |           |          |
| 1) Bromochloromethane        | 4.904  | 128      | 35476    | 30.000  | ug/l      | 0.01     |
| 28) 1,4-Difluorobenzene      | 6.757  | 114      | 211249   | 30.000  | ug/l      | 0.00     |
| 57) Chlorobenzene-d5         | 10.055 | 117      | 182792   | 30.000  | ug/l      | 0.00     |
|                              |        |          |          |         |           |          |
| System Monitoring Compounds  |        |          |          |         |           |          |
| 27) 1,2-Dichloroethane-d4    | 5.952  | 65       | 88961    | 26.767  | ug/l      | 0.00     |
| Spiked Amount 30.000         | Range  | 91 - 110 | Recovery | =       | 89.233%#  |          |
| 60) 4-Bromofluorobenzene     | 11.079 | 95       | 92255    | 25.901  | ug/l      | 0.00     |
| Spiked Amount 30.000         | Range  | 63 - 112 | Recovery | =       | 86.333%   |          |
| 63) Toluene-d8               | 8.647  | 98       | 248450   | 37.742  | ug/l      | 0.00     |
| Spiked Amount 30.000         | Range  | 91 - 112 | Recovery | =       | 125.800%# |          |
|                              |        |          |          |         |           |          |
| Target Compounds             |        |          |          |         |           | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166  | 85       | 109943   | 37.015  | ug/l      | 100      |
| 3) Chloromethane             | 1.294  | 50       | 117054   | 30.187  | ug/l      | 94       |
| 4) Vinyl Chloride            | 1.374  | 62       | 112739   | 29.536  | ug/l      | 98       |
| 5) Bromomethane              | 1.618  | 94       | 70289    | 27.805  | ug/l      | 97       |
| 6) Chloroethane              | 1.691  | 64       | 68494    | 27.464  | ug/l      | 100      |
| 7) Trichlorofluoromethane    | 1.886  | 101      | 173664   | 28.832  | ug/l      | 98       |
| 8) Diethyl Ether             | 2.130  | 74       | 66292    | 29.704  | ug/l      | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331  | 101      | 103675   | 33.810  | ug/l      | 99       |
| 10) 1,1-Dichloroethene       | 2.319  | 96       | 98064    | 31.021  | ug/l      | 97       |
| 11) Methyl Iodide            | 2.453  | 142      | 118490   | 29.389  | ug/l      | 96       |
| 12) Methyl Acetate           | 2.709  | 43       | 259691   | 35.736  | ug/l      | 99       |
| 13) Acrolein                 | 2.239  | 56       | 92123    | 115.714 | ug/l      | 99       |
| 14) Acrylonitrile            | 3.069  | 53       | 325935   | 165.675 | ug/l      | 98       |
| 15) Acetone                  | 2.398  | 58       | 95384    | 175.274 | ug/l      | 100      |
| 16) Carbon Disulfide         | 2.514  | 76       | 216846   | 27.147  | ug/l      | 98       |
| 17) Allyl chloride           | 2.666  | 41       | 194840   | 31.544  | ug/l      | 98       |
| 18) Methylene Chloride       | 2.788  | 84       | 120471   | 31.968  | ug/l      | 99       |
| 19) trans-1,2-Dichloroethene | 3.093  | 96       | 106541   | 30.430  | ug/l      | 98       |
| 20) Diisopropyl ether        | 3.757  | 45       | 403122   | 31.743  | ug/l      | 97       |
| 21) 1,1-Dichloroethane       | 3.611  | 63       | 214574   | 31.659  | ug/l      | 100      |
| 22) cis-1,2-Dichloroethene   | 4.483  | 96       | 130283   | 31.878  | ug/l      | 98       |
| 23) tert-Butyl Alcohol       | 3.032  | 59       | 122777   | 140.916 | ug/l #    | 1        |
| 24) Methyl tert-Butyl Ether  | 3.111  | 73       | 369665   | 31.028  | ug/l      | 99       |
| 25) Chloroform               | 5.093  | 83       | 218389   | 31.548  | ug/l      | 99       |
| 26) Cyclohexane              | 5.471  | 56       | 181336   | 31.390  | ug/l #    | 96       |
| 29) 1,1-Dichloropropene      | 5.696  | 75       | 158192   | 35.427  | ug/l      | 99       |
| 30) 2-Butanone               | 4.568  | 43       | 479393   | 187.325 | ug/l      | 100      |
| 31) 2,2-Dichloropropane      | 4.471  | 77       | 166595   | 36.463  | ug/l      | 99       |
| 32) 1,1,1-Trichloroethane    | 5.385  | 97       | 182414   | 34.819  | ug/l      | 99       |
| 33) Carbon Tetrachloride     | 5.678  | 117      | 147904   | 34.362  | ug/l      | 95       |
| 34) Benzene                  | 6.038  | 78       | 468278   | 35.651  | ug/l      | 99       |
| 35) Methacrylonitrile        | 4.916  | 41       | 102716   | 36.783  | ug/l      | 97       |
| 36) 1,2-Dichloroethane       | 6.086  | 62       | 180436   | 34.816  | ug/l      | 99       |
| 37) Trichloroethene          | 7.123  | 130      | 119973   | 35.800  | ug/l      | 97       |
| 38) Methylcyclohexane        | 7.379  | 83       | 191791   | 40.389  | ug/l      | 99       |
| 39) 1,2-Dichloropropane      | 7.428  | 63       | 124027   | 36.087  | ug/l      | 97       |
| 40) Dibromomethane           | 7.580  | 93       | 84545    | 35.913  | ug/l      | 97       |
| 41) Bromodichloromethane     | 7.824  | 83       | 157755   | 35.604  | ug/l      | 98       |
| 42) Vinyl Acetate            | 3.721  | 43       | 1421421  | 174.383 | ug/l      | 100      |

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 Sample : VSTDICC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC050

Manual Integrations  
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue May 23 11:17:24 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 4.715  | 43   | 181156   | 36.922  | ug/l   | 99       |
| 44) Isopropyl Acetate         | 6.342  | 43   | 297131   | 35.807  | ug/l   | 98       |
| 45) 1,4-Dioxane               | 7.732  | 88   | 58950    | 717.001 | ug/l # | 83       |
| 46) Methyl methacrylate       | 7.690  | 41   | 143000   | 35.302  | ug/l   | 97       |
| 47) n-amyl Acetate            | 10.842 | 43   | 258484   | 35.852  | ug/l   | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 174372   | 36.002  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 193917   | 36.427  | ug/l   | 99       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 120257   | 36.336  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 187058   | 35.249  | ug/l   | 99       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 208511   | 35.793  | ug/l   | 99       |
| 53) Dibromochloromethane      | 9.519  | 129  | 113871   | 35.101  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 125278   | 35.474  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 501156   | 178.469 | ug/l   | 99       |
| 56) Bromoform                 | 10.799 | 173  | 75687    | 33.939  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 930413   | 229.746 | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 707723   | 230.979 | ug/l   | 100      |
| 61) Tetrachloroethene         | 9.275  | 164  | 95675    | 41.048  | ug/l   | 95       |
| 62) Toluene                   | 8.720  | 91   | 499410   | 43.587  | ug/l   | 99       |
| 64) Chlorobenzene             | 10.079 | 112  | 313671   | 44.147  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 110145   | 43.660  | ug/l   | 98       |
| 66) Ethyl Benzene             | 10.195 | 91   | 567873   | 44.559  | ug/l   | 99       |
| 67) m/p-Xylenes               | 10.299 | 106  | 425632   | 87.334  | ug/l   | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 209211   | 43.369  | ug/l   | 99       |
| 69) Styrene                   | 10.653 | 104  | 349824   | 43.886  | ug/l   | 100      |
| 70) Isopropylbenzene          | 10.963 | 105  | 558870   | 44.960  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 189901   | 45.903  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 158739m  | 42.844  | ug/l   |          |
| 73) Bromobenzene              | 11.195 | 156  | 130773   | 43.604  | ug/l   | 97       |
| 74) n-propylbenzene           | 11.305 | 91   | 669342   | 46.080  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 395387   | 43.608  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 467354   | 44.529  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 50709    | 44.131  | ug/l   | 96       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 452504   | 43.394  | ug/l   | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 459814   | 45.925  | ug/l   | 100      |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 473907   | 45.227  | ug/l   | 97       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 592590   | 48.746  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 493524   | 48.028  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 248492   | 43.816  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 250855   | 43.934  | ug/l   | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 450743   | 50.979  | ug/l   | 100      |
| 86) Hexachloroethane          | 12.536 | 117  | 76511    | 45.558  | ug/l   | 94       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 246195   | 44.256  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 37349    | 41.687  | ug/l   | 97       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 153610   | 46.205  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 61712    | 49.629  | ug/l   | 99       |
| 91) Naphthalene               | 13.774 | 128  | 523917   | 44.867  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 149636   | 45.231  | ug/l   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 23 May 2023 10:05  
Operator : JC/MD  
Sample : VSTDIC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050

Quant Time: May 23 11:18:49 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X052323W.M  
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