

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062718\  
 Data File : VU024931.D  
 Acq On : 26 Jun 2018 19:55  
 Operator : MD/SY  
 Sample : VU0627MBSD01  
 Misc : 5.00µl/10ml/100µl/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0627MBSD01

Manual Integrations  
 APPROVED

apatel  
 6/28/2018 4:38:14 PM

Quant Time: Jun 27 04:33:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 174076   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 264494   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 245201   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 144007   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 136701   | 48.10 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.20% |      |
| 35) Dibromofluoromethane  | 4.89   | 113 | 108088   | 49.24 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.48% |      |
| 50) Toluene-d8            | 7.57   | 98  | 369427   | 46.14 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.28% |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 147116   | 46.28 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.56% |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 38682  | 17.75  | ug/l | 98     |
| 3) Chloromethane              | 1.33 | 50  | 40753  | 18.31  | ug/l | 96     |
| 4) Vinyl Chloride             | 1.40 | 62  | 42742  | 18.62  | ug/l | 99     |
| 5) Bromomethane               | 1.62 | 94  | 27841  | 25.09  | ug/l | 98     |
| 6) Chloroethane               | 1.70 | 64  | 28365  | 21.51  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.89 | 101 | 70028  | 19.99  | ug/l | 100    |
| 8) Diethyl Ether              | 2.10 | 74  | 26928  | 21.51  | ug/l | 87     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.29 | 101 | 41963  | 19.31  | ug/l | 96     |
| 10) Methyl Iodide             | 2.41 | 142 | 39747  | 24.61  | ug/l | 98     |
| 11) Tert butyl alcohol        | 2.82 | 59  | 74207  | 107.37 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.29 | 96  | 38427  | 19.39  | ug/l | 94     |
| 13) Acrolein                  | 2.19 | 56  | 16263  | 44.81  | ug/l | 96     |
| 14) Allyl chloride            | 2.60 | 41  | 68100  | 18.50  | ug/l | 99     |
| 15) Acrylonitrile             | 2.94 | 53  | 142278 | 105.80 | ug/l | 99     |
| 16) Acetone                   | 2.32 | 43  | 159670 | 104.57 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.48 | 76  | 98742  | 15.56  | ug/l | 98     |
| 18) Methyl Acetate            | 2.62 | 43  | 77676  | 23.73  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.00 | 73  | 157231 | 21.10  | ug/l | 96     |
| 20) Methylene Chloride        | 2.70 | 84  | 49501  | 20.66  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 2.99 | 96  | 41668  | 19.09  | ug/l | 94     |
| 22) Diisopropyl ether         | 3.57 | 45  | 148174 | 20.31  | ug/l | 95     |
| 23) Vinyl Acetate             | 3.53 | 43  | 643096 | 98.40  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.45 | 63  | 84611  | 20.16  | ug/l | 99     |
| 25) 2-Butanone                | 4.26 | 43  | 219366 | 106.96 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.23 | 77  | 79169  | 19.87  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.23 | 96  | 51208  | 20.40  | ug/l | 99     |
| 28) Bromochloromethane        | 4.55 | 49  | 38482  | 20.82  | ug/l | 89     |
| 29) Tetrahydrofuran           | 4.63 | 42  | 132732 | 104.50 | ug/l | 97     |
| 30) Chloroform                | 4.68 | 83  | 88511  | 20.84  | ug/l | 100    |
| 31) Cyclohexane               | 5.00 | 56  | 75103  | 18.92  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 4.92 | 97  | 80556  | 20.51  | ug/l | 96     |
| 36) 1,1-Dichloropropene       | 5.14 | 75  | 59937  | 19.28  | ug/l | 95     |
| 37) Ethyl Acetate             | 4.38 | 43  | 76156  | 22.48  | ug/l | 96     |
| 38) Carbon Tetrachloride      | 5.14 | 117 | 69889  | 20.45  | ug/l | 98     |

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 Sample : VU0627MBSD01  
 Misc : 5.00µl/100µl/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
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Manual Integrations  
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apatel  
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Quant Time: Jun 27 04:33:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 6.42  | 83   | 73564    | 18.97  | ug/l   | 95       |
| 40) Benzene                    | 5.39  | 78   | 181985   | 20.55  | ug/l   | 98       |
| 41) Methacrylonitrile          | 4.54  | 41   | 41863    | 22.92  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 5.41  | 62   | 74796    | 22.18  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 5.55  | 43   | 121094   | 20.68  | ug/l   | 99       |
| 44) Trichloroethene            | 6.19  | 130  | 50144    | 19.89  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 6.44  | 63   | 50094    | 21.20  | ug/l   | 99       |
| 46) Dibromomethane             | 6.56  | 93   | 36444    | 21.96  | ug/l   | 96       |
| 47) Bromodichloromethane       | 6.76  | 83   | 69392    | 20.99  | ug/l   | 96       |
| 48) Methyl methacrylate        | 6.62  | 41   | 61046    | 21.41  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.62  | 88   | 29055    | 521.07 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 406705   | 110.56 | ug/l   | 99       |
| 52) Toluene                    | 7.64  | 92   | 115926   | 20.35  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 7.88  | 75   | 72940    | 19.65  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 75424    | 19.07  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 49416    | 21.34  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 8.02  | 69   | 80701    | 20.82  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 8.25  | 76   | 83517    | 21.38  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.13  | 63   | 32647    | 21.98  | ug/l   | 96       |
| 59) 2-Hexanone                 | 8.36  | 43   | 327638   | 109.09 | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.48  | 129  | 55499    | 19.22  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 8.59  | 107  | 54341    | 21.08  | ug/l   | 99       |
| 64) Tetrachloroethene          | 8.23  | 164  | 47311    | 20.30  | ug/l   | 95       |
| 65) Chlorobenzene              | 9.12  | 112  | 132207   | 21.11  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 51390    | 21.59  | ug/l   | 97       |
| 67) Ethyl Benzene              | 9.25  | 91   | 232904   | 21.21  | ug/l   | 99       |
| 68) m/p-Xylenes                | 9.38  | 106  | 179382   | 42.54  | ug/l   | 99       |
| 69) o-Xylene                   | 9.78  | 106  | 89382    | 21.42  | ug/l   | 98       |
| 70) Styrene                    | 9.80  | 104  | 141647   | 20.65  | ug/l   | 99       |
| 71) Bromoform                  | 9.96  | 173  | 42576    | 18.82  | ug/l # | 100      |
| 73) Isopropylbenzene           | 10.17 | 105  | 239295   | 21.64  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.01 | 43   | 106216   | 20.20  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 84026    | 22.68  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 10.50 | 75   | 72796m   | 22.96  | ug/l   |          |
| 77) Bromobenzene               | 10.45 | 156  | 61727    | 22.05  | ug/l   | 95       |
| 78) n-propylbenzene            | 10.59 | 91   | 267388   | 20.53  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 165978   | 21.61  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 10.78 | 105  | 204489   | 21.34  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75   | 27204m   | 19.86  | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.78 | 91   | 186866   | 20.90  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.10 | 119  | 209086   | 22.68  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 207826   | 21.28  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.33 | 105  | 244808   | 21.22  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 216723   | 20.97  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146  | 108662   | 21.01  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 109287   | 21.00  | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.89 | 91   | 173561   | 18.92  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.15 | 117  | 37895    | 18.80  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 114450   | 22.10  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 22310    | 21.82  | ug/l   | 97       |

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Sample : VU0627MBSD01  
Misc : 5.00g/10ml/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0627MBSD01

Manual Integrations  
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apatel  
6/28/2018 4:38:14 PM

Quant Time: Jun 27 04:33:10 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.51 | 180  | 72658    | 22.72 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.70 | 225  | 39331    | 21.85 | ug/l  | 99       |
| 95) Naphthalene            | 13.74 | 128  | 246639   | 23.66 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 76496    | 24.00 | ug/l  | 100      |

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

