

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092118\  
 Data File : VU026931.D  
 Acq On : 20 Sep 2018 12:20  
 Operator : MD/SY  
 Sample : J4893-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08K1

Manual Integrations  
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Quant Time: Sep 27 05:15:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 21 04:24:07 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 282145   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 274270   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 136671   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

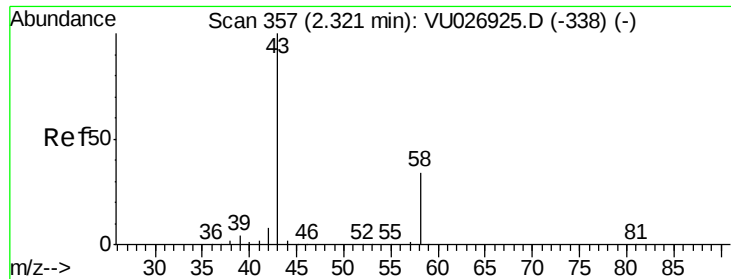
|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 82642    | 39.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.20%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 70553    | 39.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 78.98%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 119430   | 30.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.48%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 114251   | 82.49    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 82.49%  |
| 24) Chloroform-d               | 4.65    | 84    | 142076   | 36.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 73.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 91311    | 37.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 74.92%  |
| 32) Benzene-d6                 | 5.34    | 84    | 293795   | 38.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 76.44%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 96198    | 38.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 77.68%  |
| 41) Toluene-d8                 | 7.57    | 98    | 253803   | 36.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 73.10%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 40076    | 36.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.48%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 76302    | 78.39    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 78.39%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 127367   | 36.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 73.76%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 115913m  | 40.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 81.54%  |

## Target Compounds

|                            |       |     |         |         | Qvalue   |
|----------------------------|-------|-----|---------|---------|----------|
| 13) Acetone                | 2.32  | 43  | 2409    | 1.770   | ug/L 91  |
| 51) Chlorobenzene          | 9.12  | 112 | 1030115 | 176.422 | ug/L 99  |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146 | 85518   | 20.526  | ug/L 97  |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146 | 227965  | 49.690  | ug/L 100 |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 1455209 | 315.440 | ug/L 100 |
| 68) 1,2,4-trichlorobenzene | 13.50 | 180 | 445057  | 160.190 | ug/L 100 |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180 | 133842  | 43.746  | ug/L 99  |

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

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#13

Acetone

Concen: 1.770 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

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Instrument :

MSVOA\_U

ClientSampled :

C08K1

Tgt Ion: 43 Resp: 2409

Ion Ratio Lower Upper

43 100

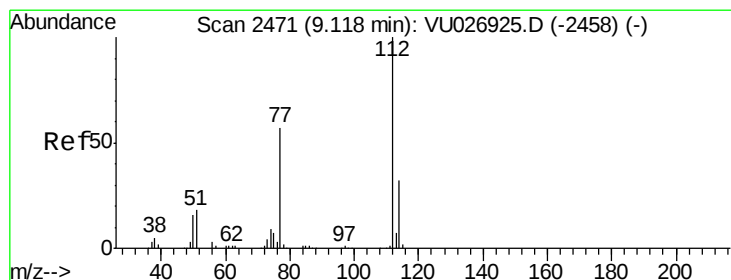
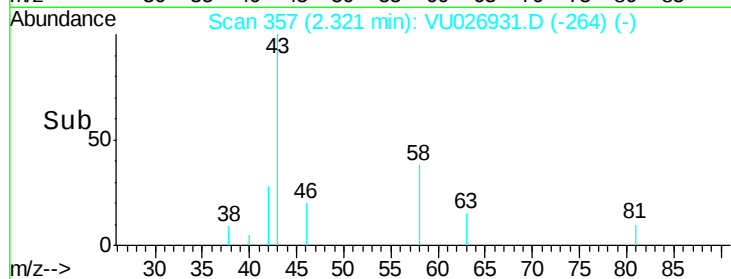
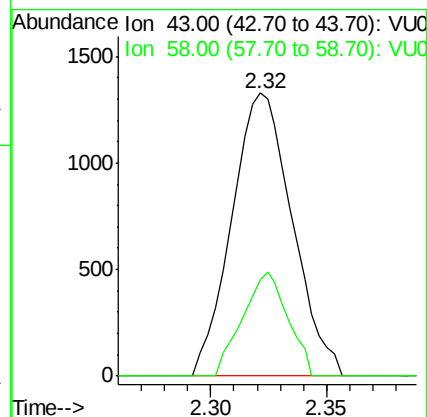
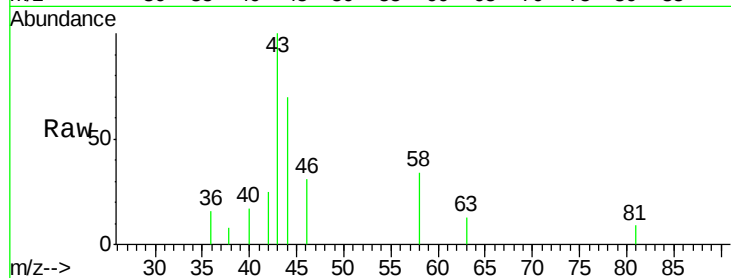
58 27.5 0.0 64.6

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#51

Chlorobenzene

Concen: 176.422 ug/L

RT: 9.12 min Scan# 2472

Delta R.T. 0.00 min

Lab File: VU026931.D

Acq: 20 Sep 2018 12:20

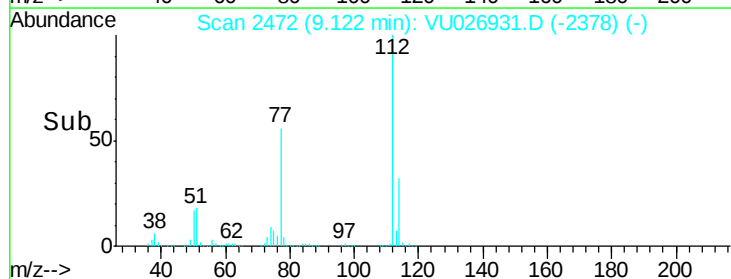
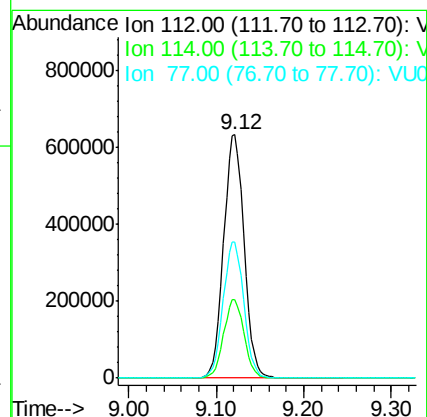
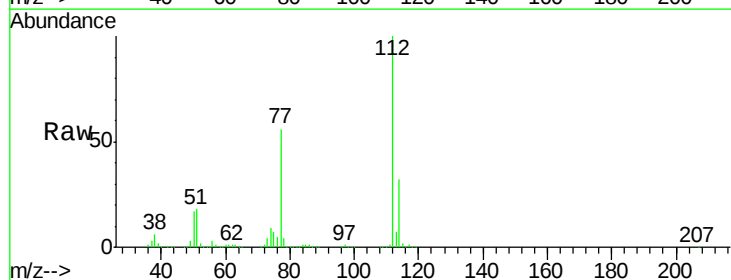
Tgt Ion: 112 Resp: 1030115

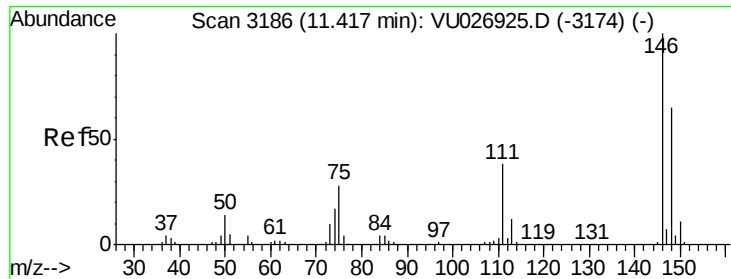
Ion Ratio Lower Upper

112 100

114 32.2 22.3 41.5

77 55.8 45.1 67.7





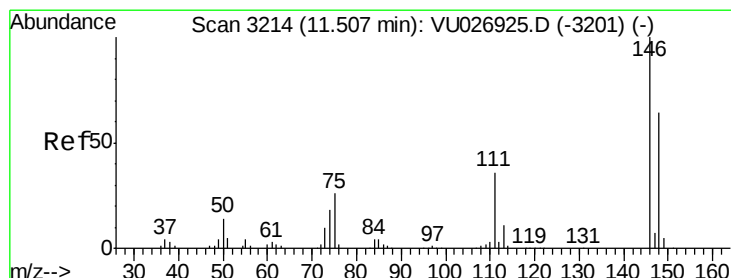
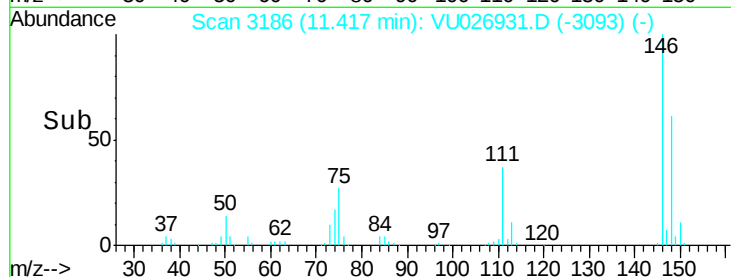
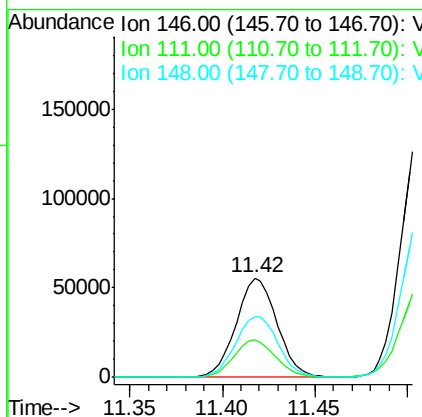
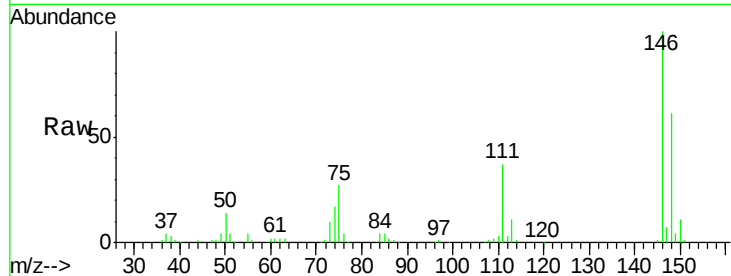
#62  
 1,3-Dichlorobenzene  
 Concen: 20.526 ug/L  
 RT: 11.42 min Scan# 3186  
 Delta R.T. 0.00 min  
 Lab File: VU026931.D  
 Acq: 20 Sep 2018 12:20

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 MSVOA\_U  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.3  | 26.7  | 49.7  |
| 148     | 61.4  | 44.9  | 83.5  |

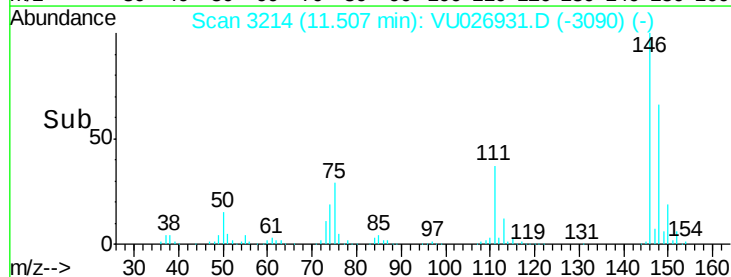
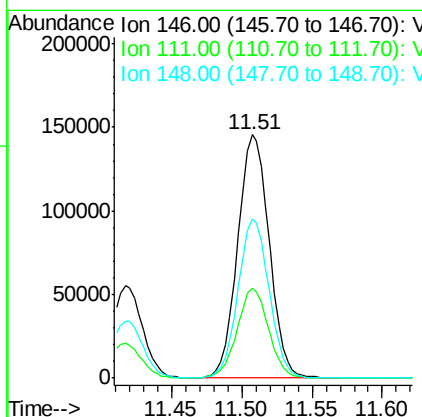
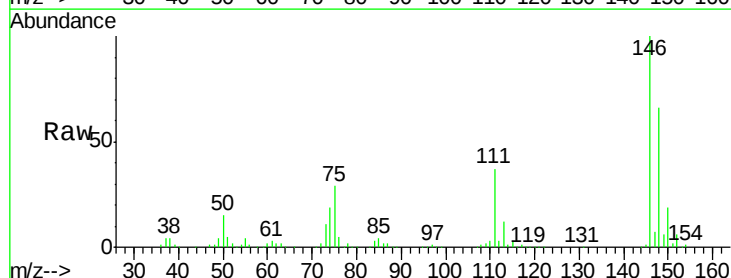
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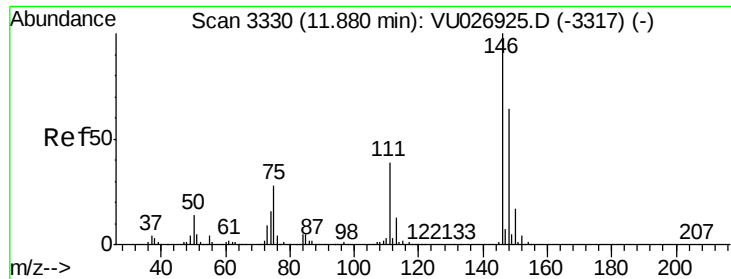
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#63  
 1,4-Dichlorobenzene  
 Concen: 49.690 ug/L  
 RT: 11.51 min Scan# 3214  
 Delta R.T. 0.00 min  
 Lab File: VU026931.D  
 Acq: 20 Sep 2018 12:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.1  | 26.0  | 48.2  |
| 148     | 65.6  | 45.8  | 85.2  |





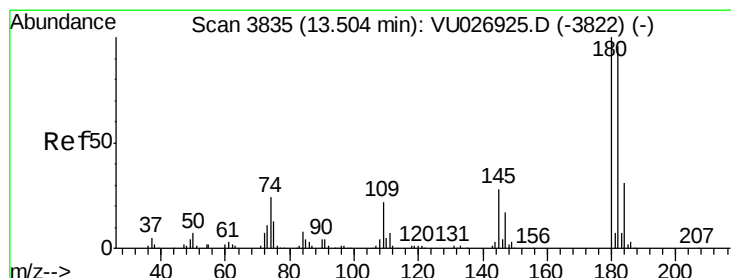
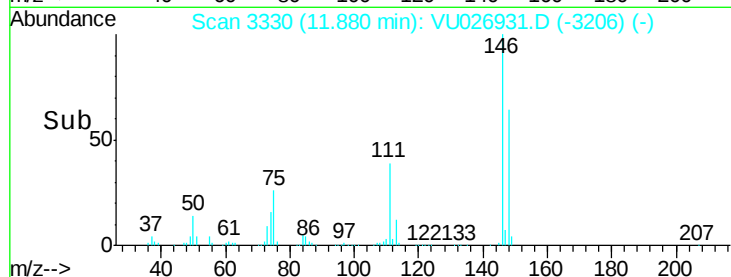
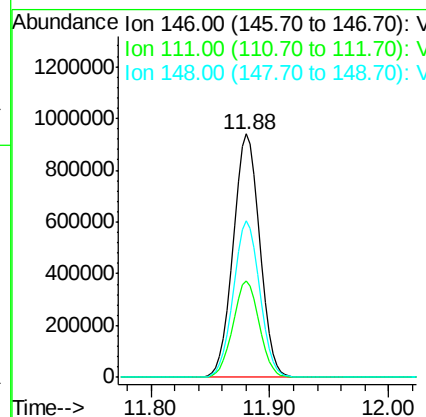
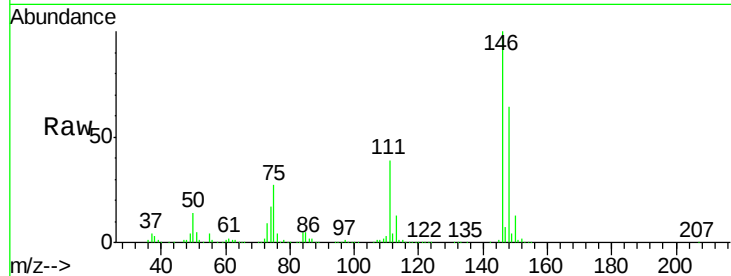
#65  
 1,2-Dichlorobenzene  
 Concen: 315.440 ug/L  
 RT: 11.88 min Scan# 3330  
 Delta R.T. 0.00 min  
 Lab File: VU026931.D  
 Acq: 20 Sep 2018 12:20

Instrument :  
 MSVOA\_U  
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 C08K1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.5  | 31.4  | 47.0  |
| 148     | 64.3  | 51.4  | 77.2  |

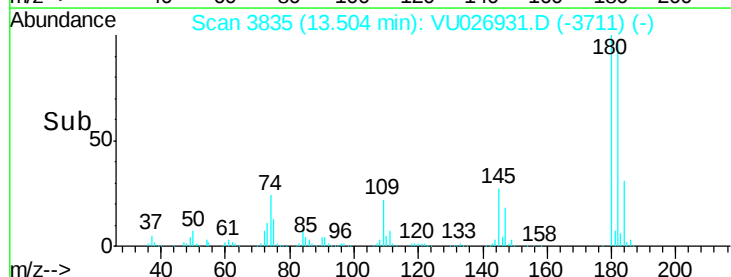
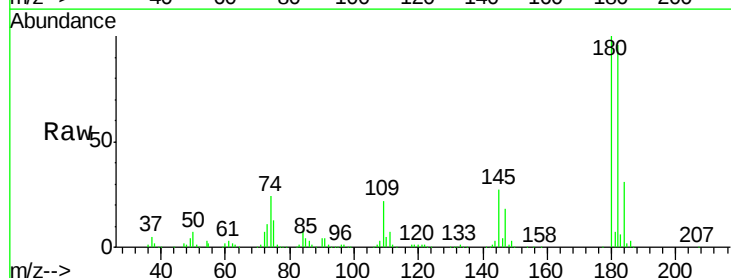
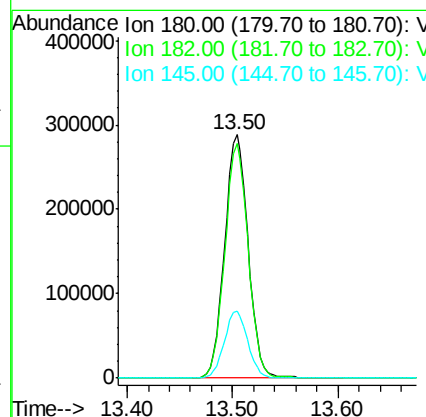
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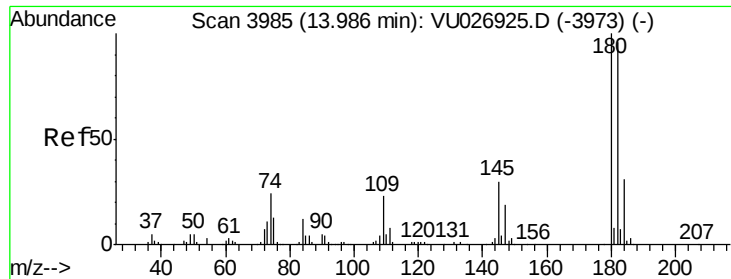
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#68  
 1,2,4-trichlorobenzene  
 Concen: 160.190 ug/L  
 RT: 13.50 min Scan# 3835  
 Delta R.T. 0.00 min  
 Lab File: VU026931.D  
 Acq: 20 Sep 2018 12:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.0  | 76.8  | 115.2 |
| 145     | 27.5  | 22.2  | 33.2  |





#70  
 1,2,3-Trichlorobenzene  
 Concen: 43.746 ug/L  
 RT: 13.99 min Scan# 3985  
 Delta R.T. 0.00 min  
 Lab File: VU026931.D  
 Acq: 20 Sep 2018 12:20

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08K1

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 133842 |       |       |
| 182     | 95.1  | 75.6   | 113.4 |       |
| 145     | 28.7  | 23.8   | 35.6  |       |

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