

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032519\  
 Data File : VU030418.D  
 Acq On : 25 Mar 2019 21:28  
 Operator : JC/SP  
 Sample : K2070-04  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09A6

Manual Integrations  
 APPROVED

MMDadoda  
 3/26/2019 1:37:07 PM

Quant Time: Mar 26 03:08:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 26 01:25:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 454986   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 430602   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 174287   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 196210   | 53.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 107.18% |
| 7) Chloroethane-d5             | 1.68    | 69    | 151255   | 52.12    | ug/L | 0.01    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 104.24% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 265647   | 38.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.48%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 314774   | 91.45    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.45%  |
| 24) Chloroform-d               | 4.65    | 84    | 302229   | 47.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.82%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 203840   | 49.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.76%  |
| 32) Benzene-d6                 | 5.34    | 84    | 626839   | 50.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.52% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 220721   | 52.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 104.48% |
| 41) Toluene-d8                 | 7.56    | 98    | 541570   | 48.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.66%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 91501    | 46.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.12%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 203350   | 88.82    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.82%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 282382   | 46.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.42%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 177048   | 50.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.40% |

## Target Compounds

|                            |       |     |       |            | Ovalue |
|----------------------------|-------|-----|-------|------------|--------|
| 13) Acetone                | 2.32  | 43  | 16360 | 4.700 ug/L | 97     |
| 33) Benzene                | 5.39  | 78  | 17710 | 1.208 ug/L | 100    |
| 51) Chlorobenzene          | 9.12  | 112 | 43108 | 4.676 ug/L | 96     |
| 63) 1,4-Dichlorobenzene    | 11.50 | 146 | 22983 | 3.917 ug/L | 97     |
| 65) 1,2-Dichlorobenzene    | 11.87 | 146 | 20068 | 3.482 ug/L | 100    |
| 68) 1,2,4-trichlorobenzene | 13.50 | 180 | 13847 | 3.735 ug/L | 93     |
| 70) 1,2,3-Trichlorobenzene | 14.00 | 180 | 5452m | 1.393 ug/L |        |

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

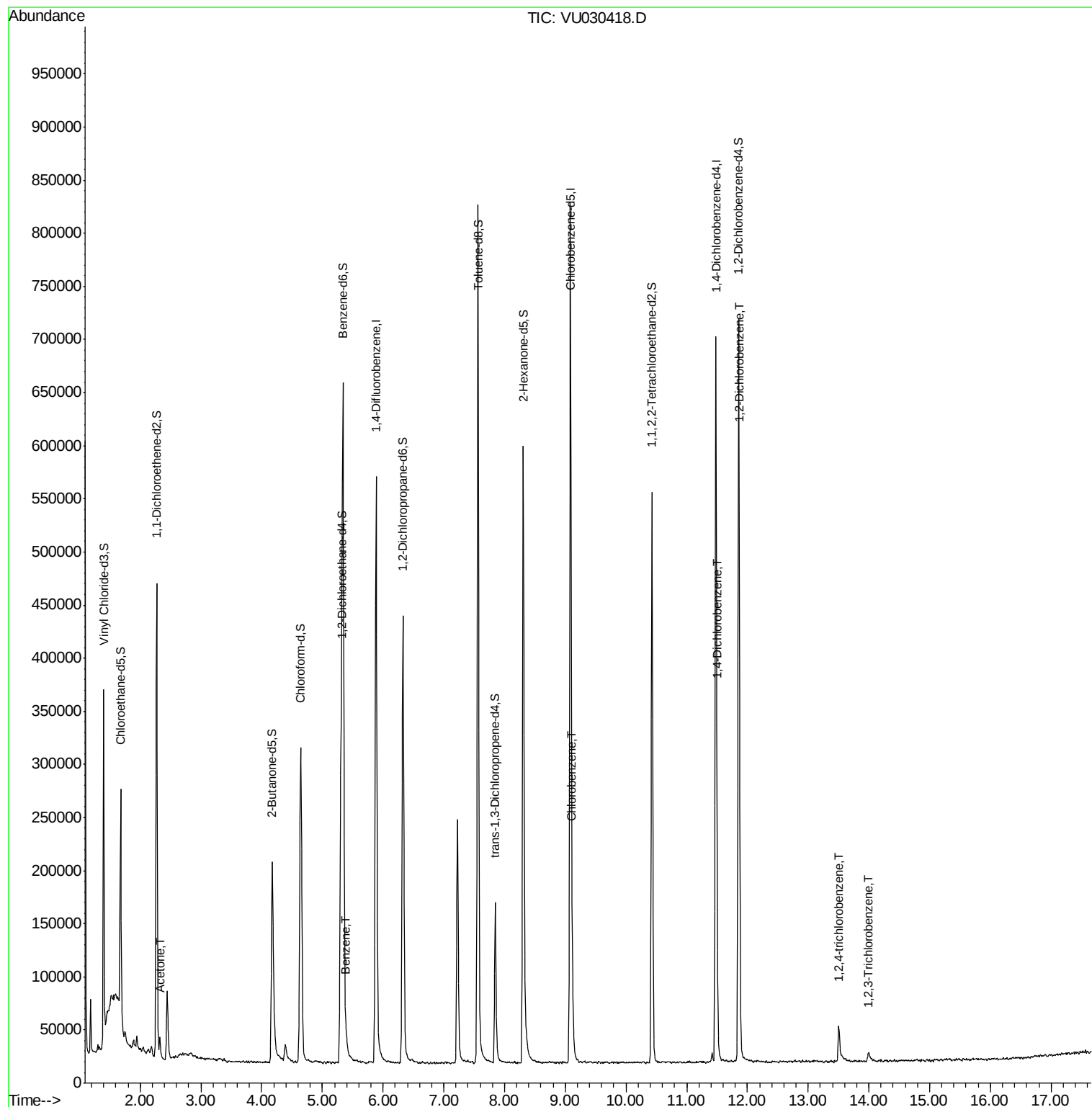
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU032519\  
Data File : VU030418.D  
Acq On : 25 Mar 2019 21:28  
Operator : JC/SP  
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ALS Vial : 17 Sample Multiplier: 1

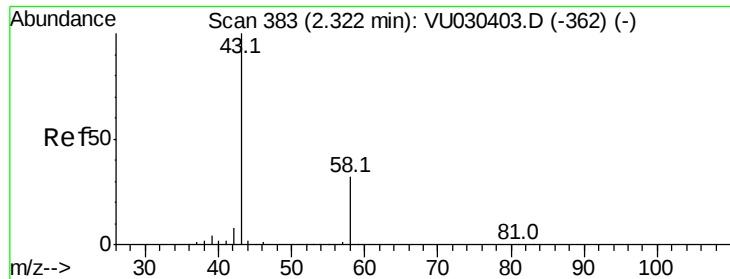
Instrument :  
MSVOA\_U  
ClientSampleId :  
C09A6

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Quant Time: Mar 26 03:08:20 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
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Response via : Initial Calibration





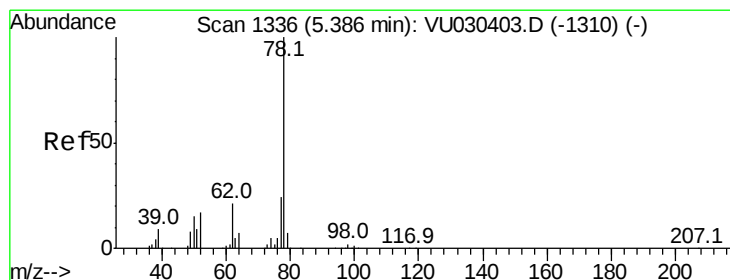
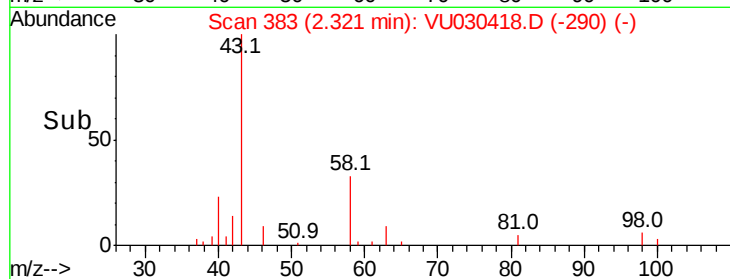
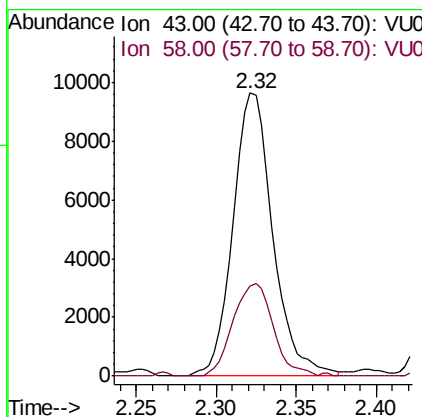
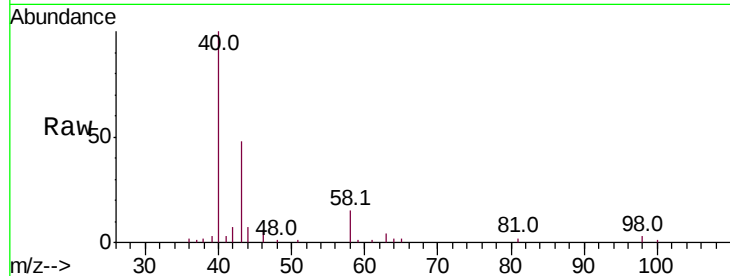
#13  
Acetone  
Concen: 4.700 ug/L  
RT: 2.32 min Scan# 383  
Delta R.T. -0.00 min  
Lab File: VU030418.D  
Acq: 25 Mar 2019 21:28

Instrument :  
MSVOA\_U  
ClientSampled :  
C09A6

Tot Ion: 43 Resp: 16360  
Ion Ratio Lower Upper  
43 100  
58 33.0 0.0 62.8

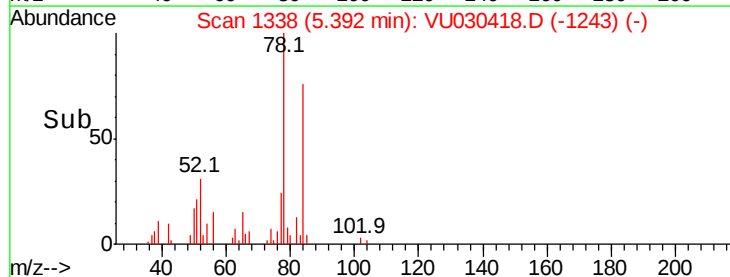
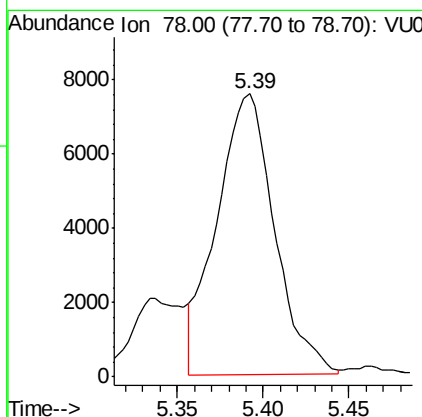
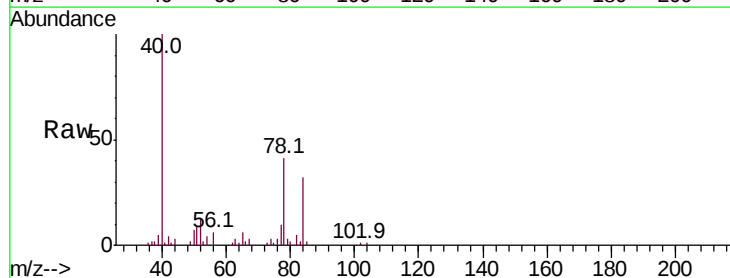
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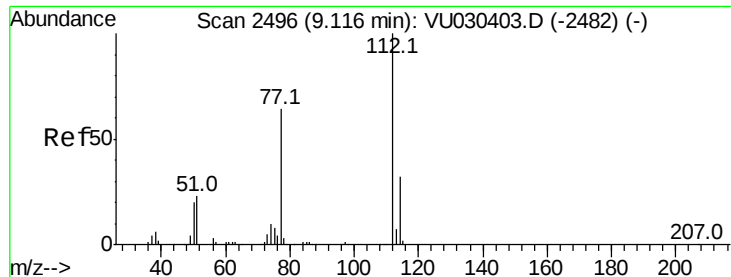
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#33  
Benzene  
Concen: 1.208 ug/L  
RT: 5.39 min Scan# 1338  
Delta R.T. 0.01 min  
Lab File: VU030418.D  
Acq: 25 Mar 2019 21:28

Tgt Ion: 78 Resp: 17710





#51

Chlorobenzene

Concen: 4.676 ug/L

RT: 9.12 min Scan# 2497

Delta R.T. 0.00 min

Lab File: VU030418.D

Acq: 25 Mar 2019 21:28

Instrument :

MSVOA\_U

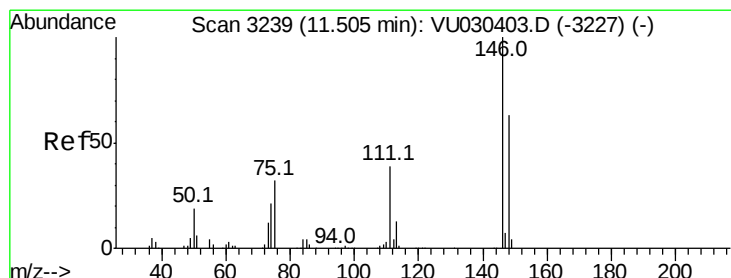
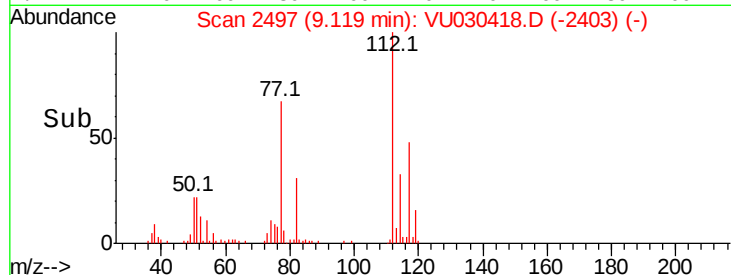
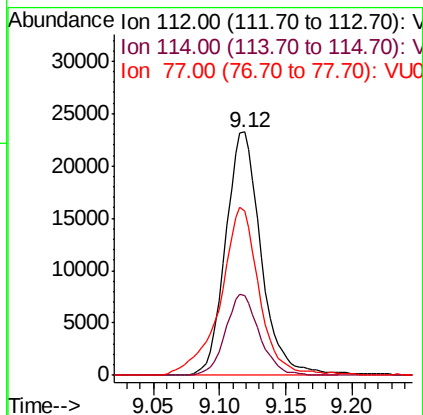
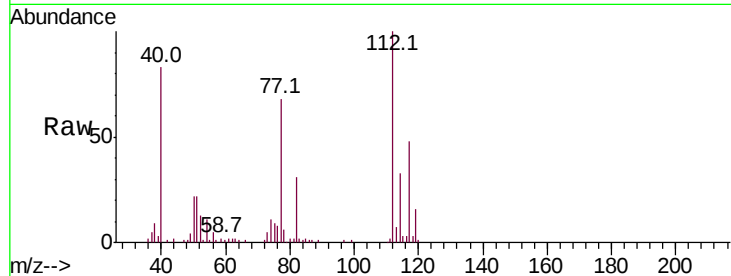
ClientSampleId :

C09A6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 112   | Resp: | 43108 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 114       | 32.6  | 21.5  | 39.9  |
| 77        | 67.7  | 51.4  | 77.0  |

Manual Integrations  
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#63

1,4-Dichlorobenzene

Concen: 3.917 ug/L

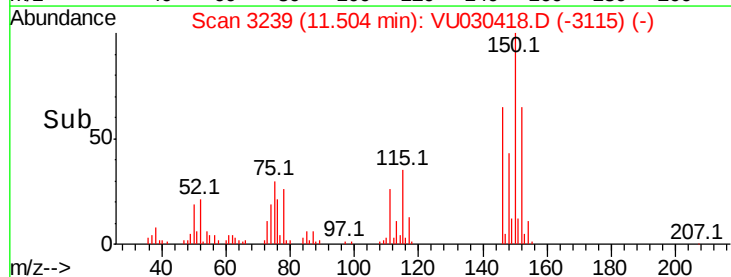
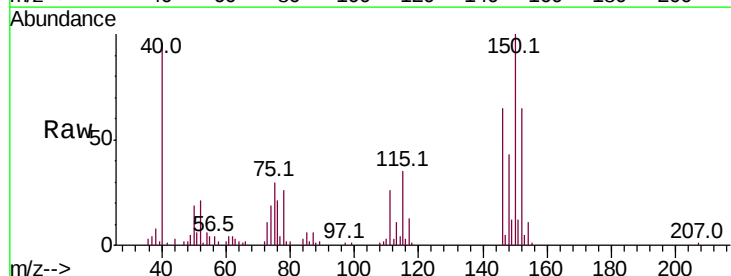
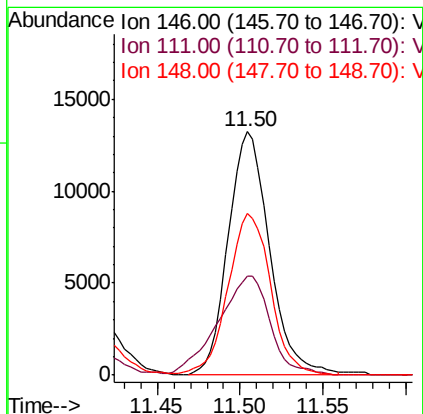
RT: 11.50 min Scan# 3239

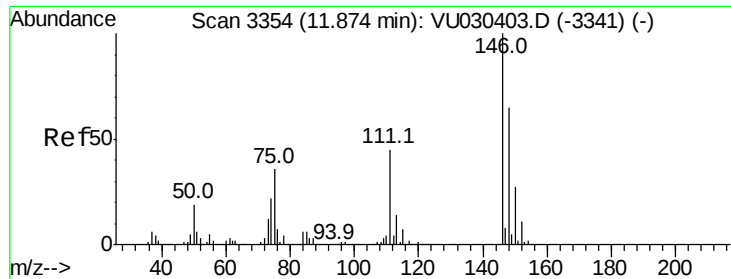
Delta R.T. -0.00 min

Lab File: VU030418.D

Acq: 25 Mar 2019 21:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 22983 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 40.4  | 28.7  | 53.3  |
| 148       | 66.2  | 44.3  | 82.3  |





#65

1,2-Dichlorobenzene

Concen: 3.482 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU030418.D

Acq: 25 Mar 2019 21:28

Instrument :

MSVOA\_U

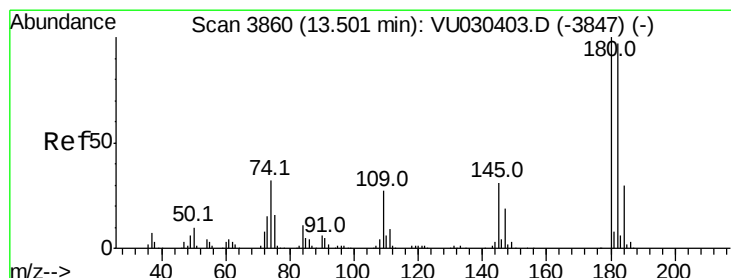
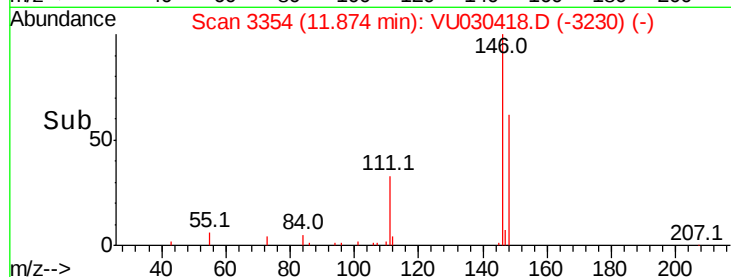
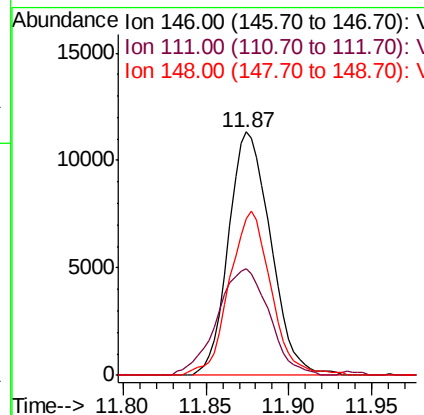
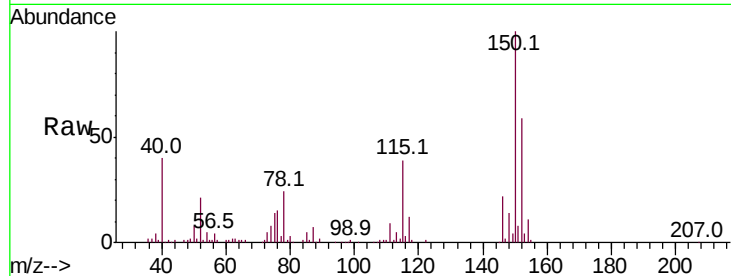
ClientSampleId :

C09A6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 20068 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 43.6  | 34.9  | 52.3  |
| 148       | 64.3  | 51.2  | 76.8  |

Manual Integrations  
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#68

1,2,4-trichlorobenzene

Concen: 3.735 ug/L

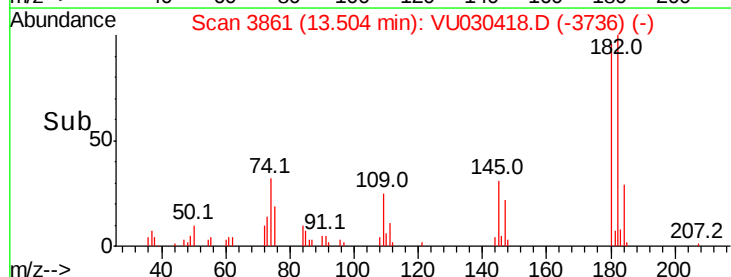
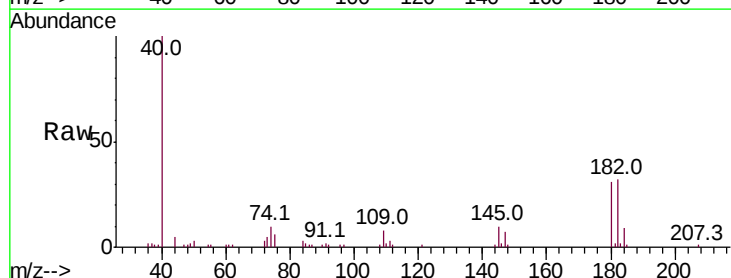
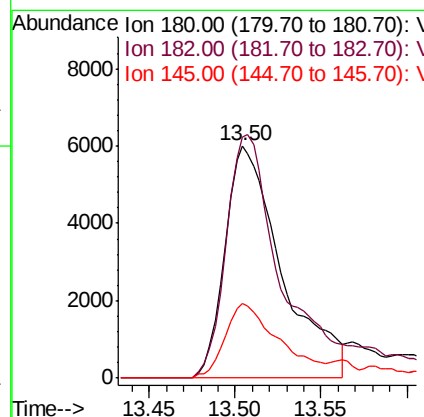
RT: 13.50 min Scan# 3861

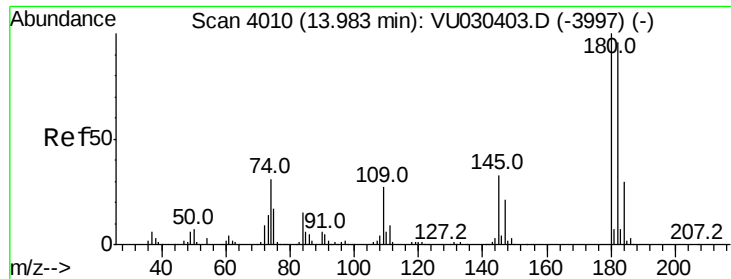
Delta R.T. 0.00 min

Lab File: VU030418.D

Acq: 25 Mar 2019 21:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 13847 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 103.9 | 76.1  | 114.1 |
| 145       | 30.6  | 24.5  | 36.7  |





#70  
 1,2,3-Trichlorobenzene  
 Concen: 1.393 ug/L m  
 RT: 14.00 min Scan# 4016  
 Delta R.T. 0.02 min  
 Lab File: VU030418.D  
 Acq: 25 Mar 2019 21:28

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09A6

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 50.3  | 77.4  | 116.2# |
| 145     | 22.3  | 25.9  | 38.9#  |

Manual Integrations  
 APPROVED

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 3/26/2019 1:37:07 PM

