

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032019\  
 Data File : VU030245.D  
 Acq On : 20 Mar 2019 23:58  
 Operator : JC/SP  
 Sample : K2017-02  
 Misc : 6.42g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF0D5

Manual Integrations  
 APPROVED

MMDadoda  
 3/22/2019 12:14:51 PM

Quant Time: Mar 22 03:04:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 22 01:27:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 619393   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 625651   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 333273   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 140127   | 33.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 66.92%  |
| 7) Chloroethane-d5             | 1.64    | 69    | 68735m   | 20.52    | ug/L | -0.04   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 41.04%# |
| 11) 1,1-Dichloroethene-d2      | 2.23    | 63    | 210406   | 27.54    | ug/L | -0.05   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 55.08%# |
| 21) 2-Butanone-d5              | 4.19    | 46    | 286518   | 92.21    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.21%  |
| 24) Chloroform-d               | 4.64    | 84    | 309875   | 40.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.64%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 189935   | 43.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.64%  |
| 32) Benzene-d6                 | 5.33    | 84    | 665360   | 40.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.72%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 213399   | 41.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 83.66%  |
| 41) Toluene-d8                 | 7.56    | 98    | 618134   | 39.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 79.74%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 98752    | 39.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.50%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 258376   | 97.67    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.67%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 378831   | 48.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.82%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 292679   | 43.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.48%  |

## Target Compounds

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 34) Trichloroethene        | 6.18  | 95   | 38740    | 8.143 | ug/L  | 97     |
| 51) Chlorobenzene          | 9.12  | 112  | 22968    | 1.767 | ug/L  | 92     |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146  | 56584    | 5.130 | ug/L  | 99     |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146  | 84643    | 7.791 | ug/L  | 98     |
| 68) 1,2,4-trichlorobenzene | 13.50 | 180  | 53982    | 7.346 | ug/L  | 98     |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180  | 7930     | 1.034 | ug/L  | 92     |

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

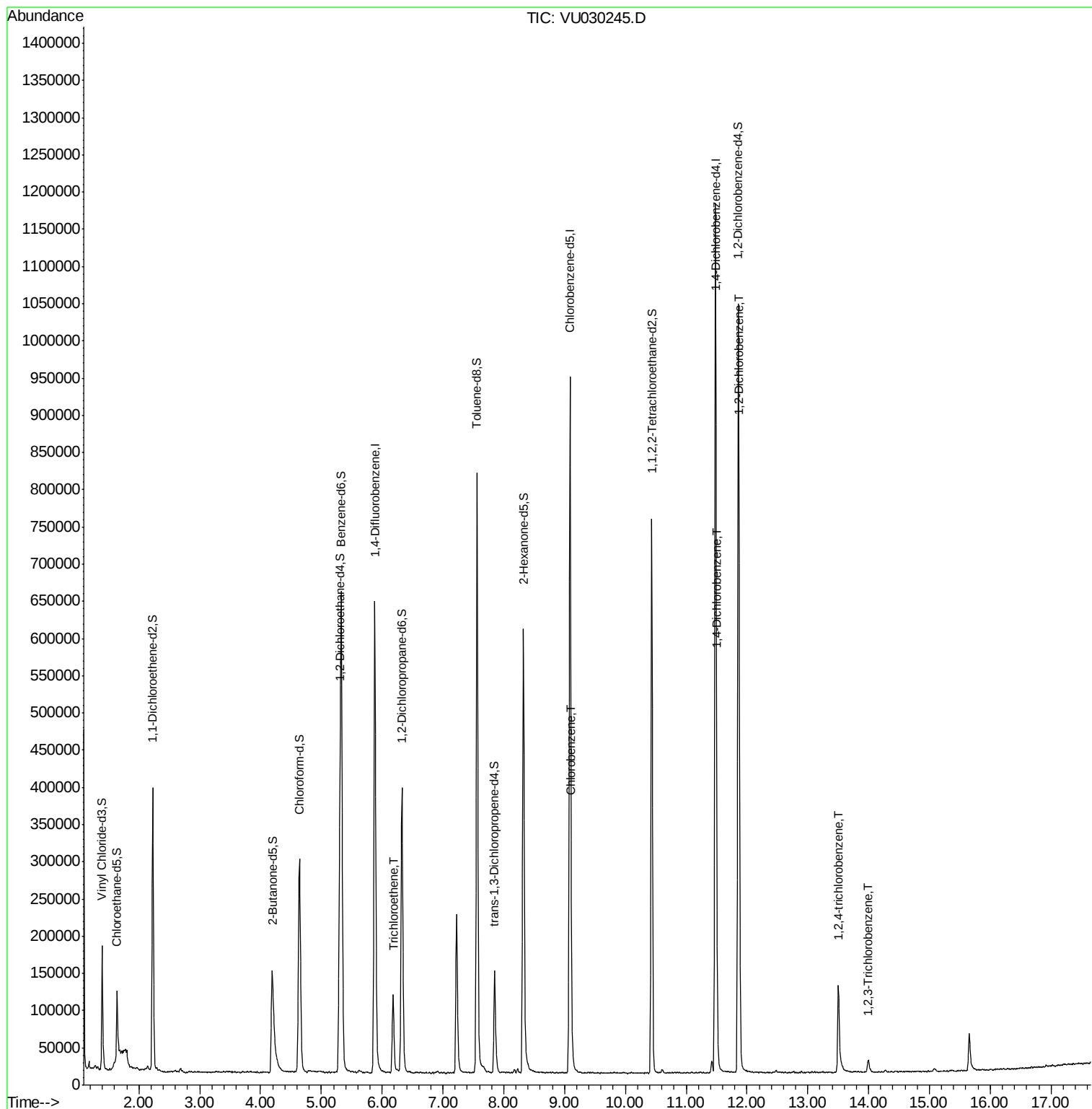
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU032019\  
Data File : VU030245.D  
Acq On : 20 Mar 2019 23:58  
Operator : JC/SP  
Sample : K2017-02  
Misc : 6.42g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 31 Sample Multiplier: 1

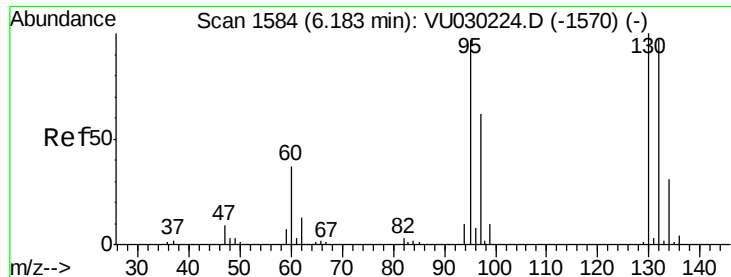
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF0D5

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Quant Time: Mar 22 03:04:01 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 22 01:27:23 2019  
Response via : Initial Calibration





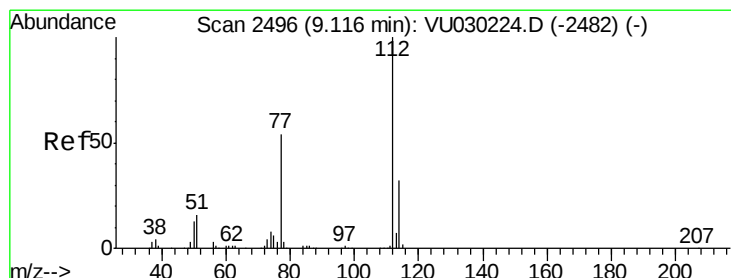
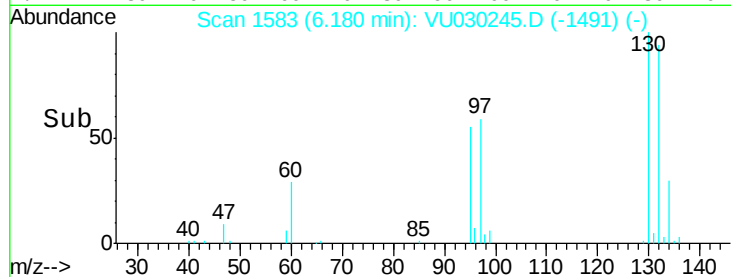
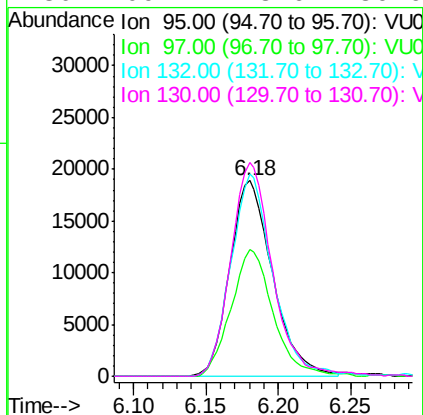
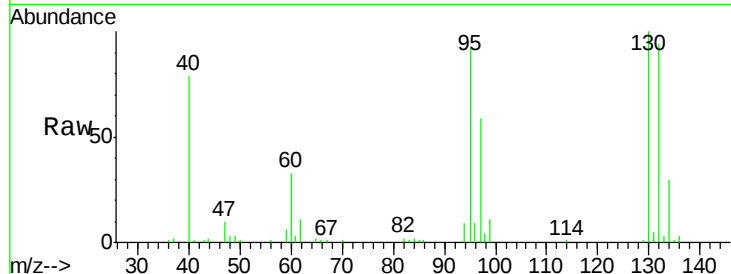
#34  
 Trichloroethene  
 Concen: 8.143 ug/L  
 RT: 6.18 min Scan# 1583  
 Delta R.T. -0.00 min  
 Lab File: VU030245.D  
 Acq: 20 Mar 2019 23:58

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 BF0D5

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 95      | 100   |       | 38740 |       |       |
| 97      | 64.6  | 46.2  | 85.8  |       |       |
| 132     | 103.0 | 69.3  | 128.7 |       |       |
| 130     | 109.1 | 73.6  | 136.6 |       |       |

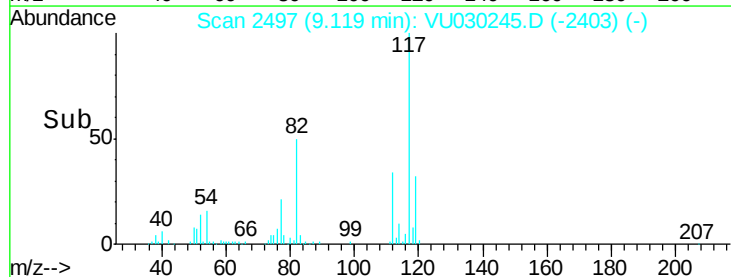
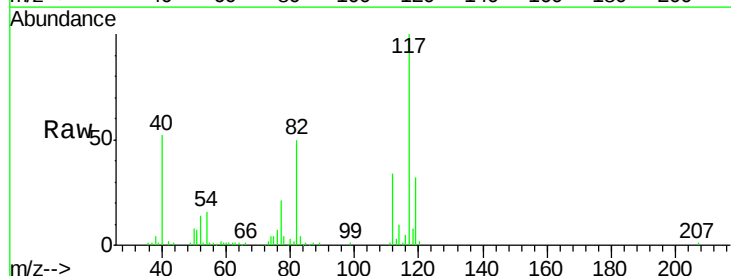
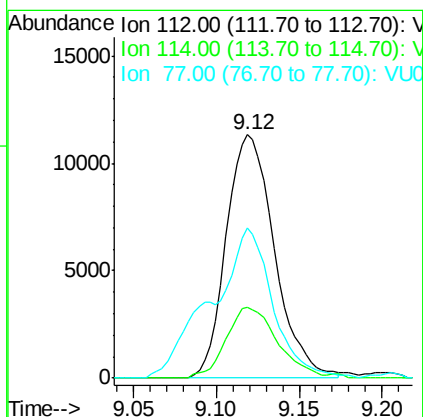
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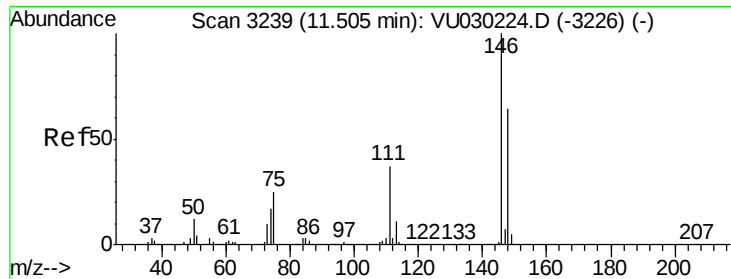
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#51  
 Chlorobenzene  
 Concen: 1.767 ug/L  
 RT: 9.12 min Scan# 2497  
 Delta R.T. 0.00 min  
 Lab File: VU030245.D  
 Acq: 20 Mar 2019 23:58

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 112     | 100  |       | 22968 |       |       |
| 114     | 29.2 | 22.5  | 41.7  |       |       |
| 77      | 61.5 | 43.4  | 65.0  |       |       |





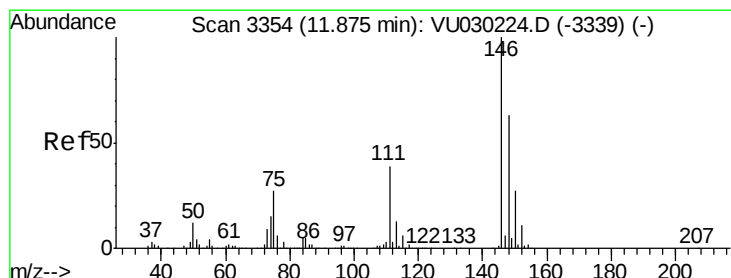
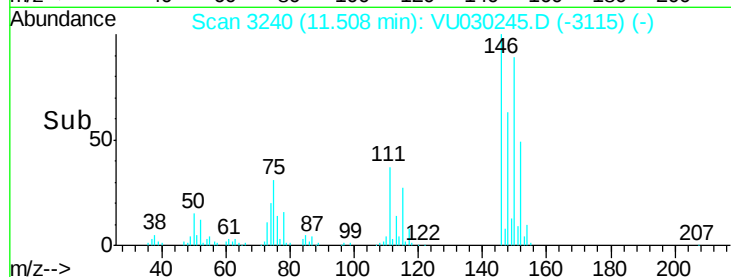
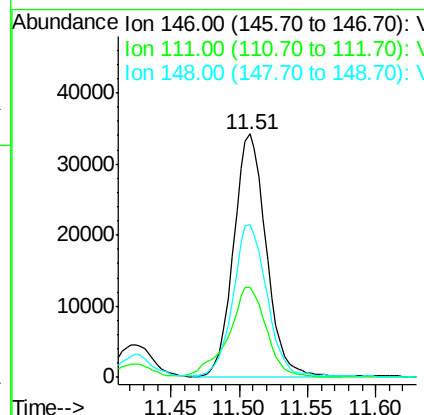
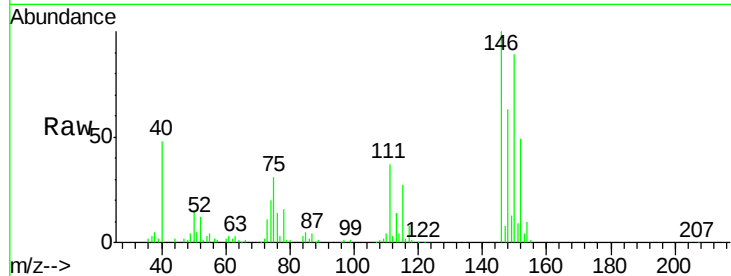
#63  
 1,4-Dichlorobenzene  
 Concen: 5.130 ug/L  
 RT: 11.51 min Scan# 3240  
 Delta R.T. 0.00 min  
 Lab File: VU030245.D  
 Acq: 20 Mar 2019 23:58

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BF0D5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.1  | 25.3  | 46.9  |
| 148     | 62.9  | 44.7  | 82.9  |

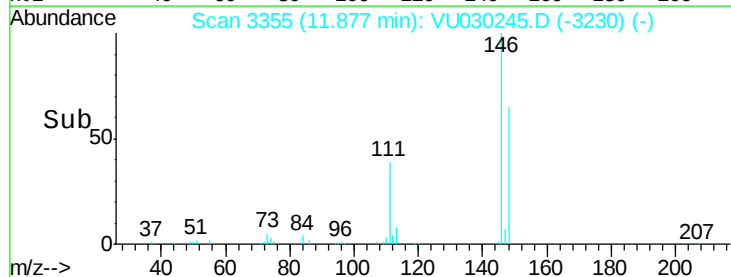
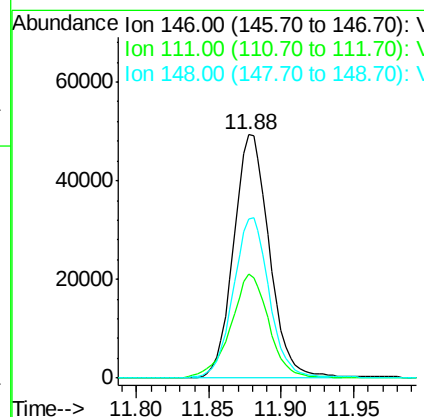
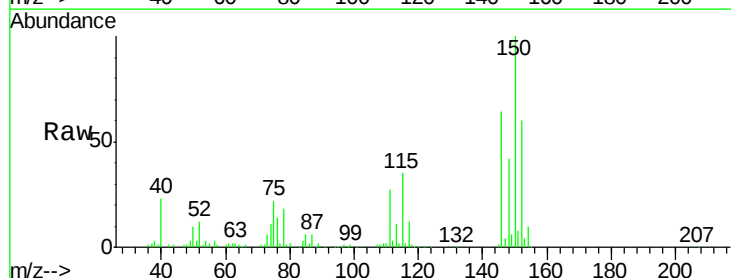
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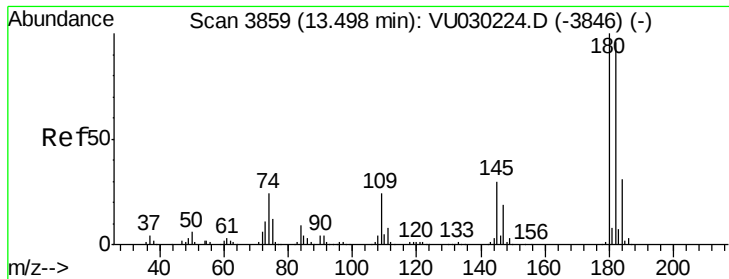
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#65  
 1,2-Dichlorobenzene  
 Concen: 7.791 ug/L  
 RT: 11.88 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VU030245.D  
 Acq: 20 Mar 2019 23:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.6  | 31.7  | 47.5  |
| 148     | 65.3  | 52.0  | 78.0  |





#68

1,2,4-trichlorobenzene

Concen: 7.346 ug/L

RT: 13.50 min Scan# 3861

Delta R.T. 0.01 min

Lab File: VU030245.D

Acq: 20 Mar 2019 23:58

Instrument :

MSVOA\_U

ClientSampleId :

BF0D5

Tot Ion:180 Resp: 53982

Ion Ratio Lower Upper

180 100

182 97.8 76.4 114.6

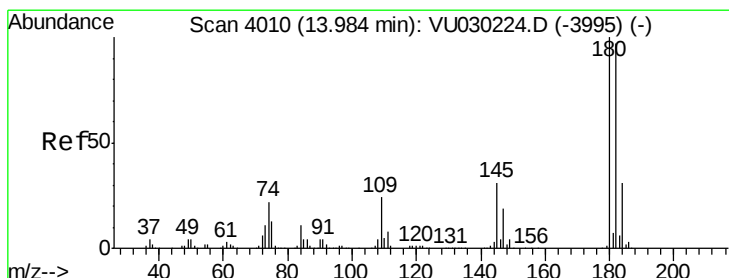
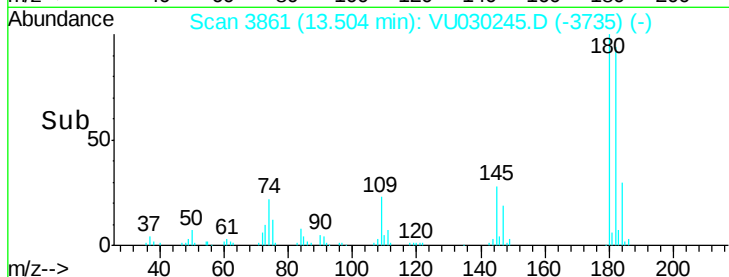
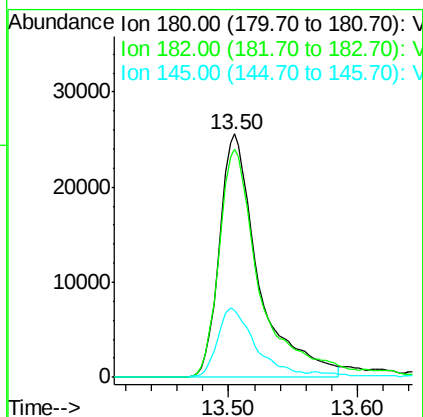
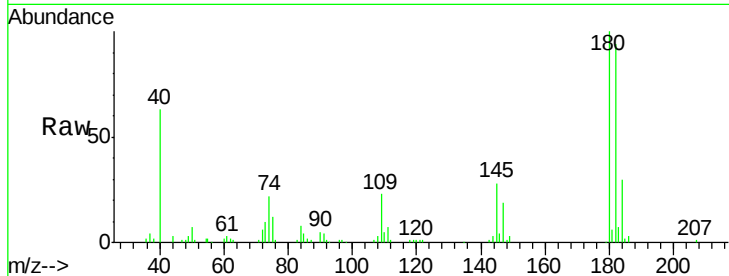
145 27.7 22.7 34.1

Manual Integrations

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#70

1,2,3-Trichlorobenzene

Concen: 1.034 ug/L

RT: 13.99 min Scan# 4013

Delta R.T. 0.01 min

Lab File: VU030245.D

Acq: 20 Mar 2019 23:58

Tgt Ion:180 Resp: 7930

Ion Ratio Lower Upper

180 100

182 104.2 75.9 113.9

145 28.8 24.1 36.1

