

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\  
 Data File : VU035958.D  
 Acq On : 03 Dec 2019 19:33  
 Operator : JC/SP  
 Sample : K6105-07  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFE27

Quant Time: Dec 04 05:35:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Dec 04 03:35:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 329990   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 352656   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 109783   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 164493   | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 136839   | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.60   | 63    | 308836   | 5.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 114.40% |
| 20) 2-Butanone-d5              | 4.69   | 46    | 362392   | 54.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 108.80% |
| 24) Chloroform-d               | 5.11   | 84    | 247695   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 132209   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.60%  |
| 32) Benzene-d6                 | 5.77   | 84    | 471039   | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 153532   | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.80%  |
| 41) Toluene-d8                 | 7.93   | 98    | 391790   | 4.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 81.40%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 59896    | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.80%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 281814   | 52.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.92% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 134385   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 114132   | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.60% |

## Target Compounds

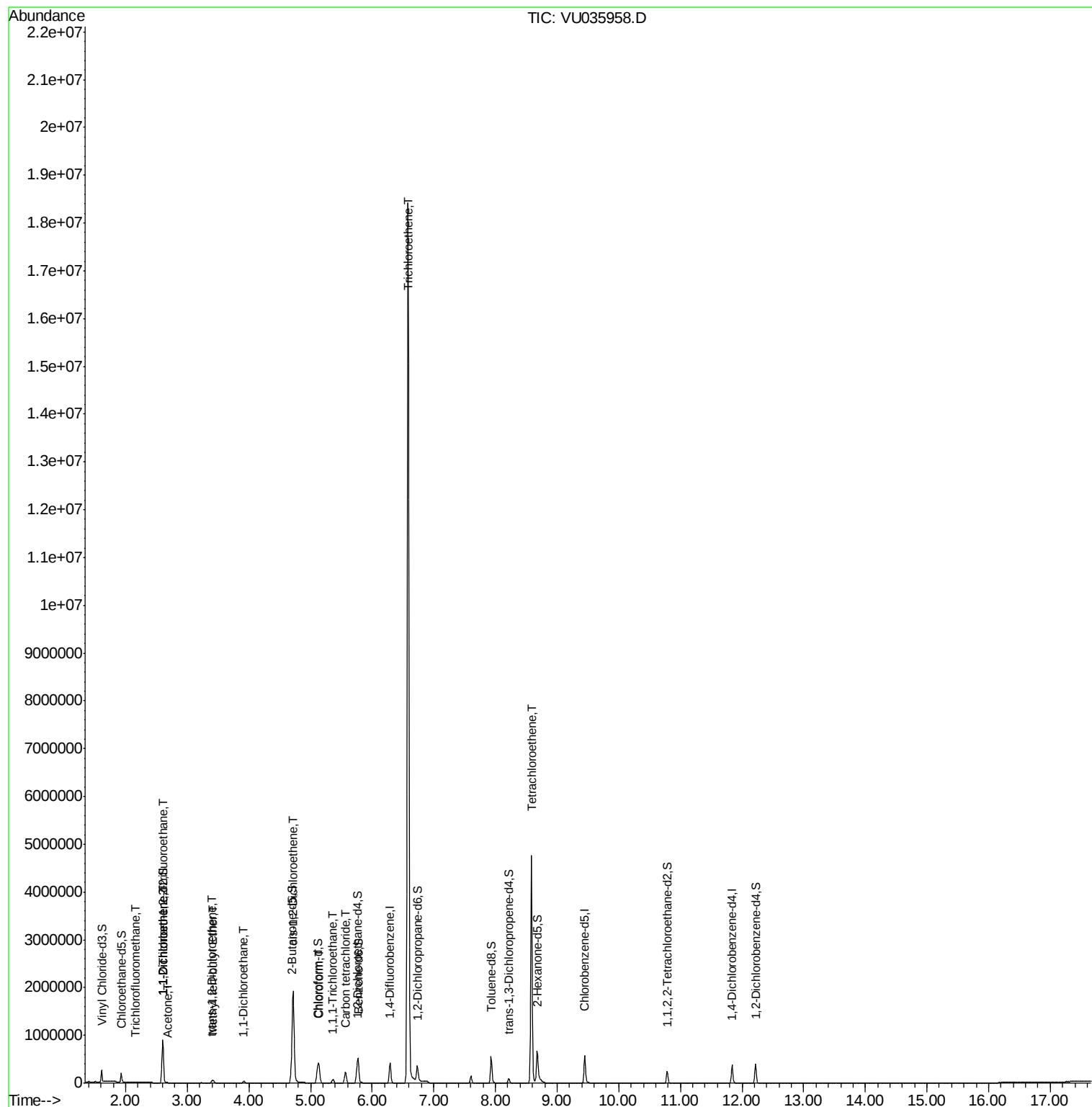
| Target Compounds               | R.T. | QIon | Response | Conc    | Units | Ovalue |
|--------------------------------|------|------|----------|---------|-------|--------|
| 9) Trichlorofluoromethane      | 2.16 | 101  | 5637     | 0.122   | ug/L  | 93     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101  | 24047    | 0.948   | ug/L  | 95     |
| 12) 1,1-Dichloroethene         | 2.61 | 96   | 235026   | 9.938   | ug/L  | 83     |
| 13) Acetone                    | 2.67 | 43   | 7673     | 1.274   | ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 3.42 | 73   | 66232    | 1.195   | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96   | 5746     | 0.229   | ug/L  | 90     |
| 19) 1,1-Dichloroethane         | 3.92 | 63   | 44042    | 0.900   | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96   | 955140   | 36.102  | ug/L  | 96     |
| 25) Chloroform                 | 5.14 | 83   | 303948   | 6.153   | ug/L  | 98     |
| 29) 1,1,1-Trichloroethane      | 5.36 | 97   | 56524    | 1.325   | ug/L  | 99     |
| 31) Carbon tetrachloride       | 5.57 | 117  | 160818   | 4.253   | ug/L  | 99     |
| 34) Trichloroethene            | 6.58 | 95   | 6351236  | 226.468 | ug/L  | 99     |
| 47) Tetrachloroethene          | 8.58 | 164  | 1099605  | 48.241  | ug/L  | 95     |

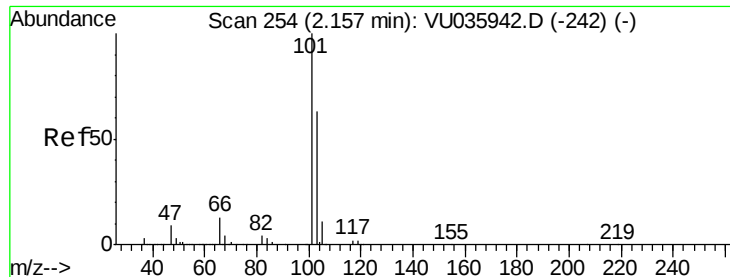
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU120319\  
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Acq On : 03 Dec 2019 19:33  
Operator : JC/SP  
Sample : K6105-07  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFE27

Quant Time: Dec 04 05:35:50 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120319WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Dec 04 03:35:54 2019  
Response via : Initial Calibration





#9

Trichlorofluoromethane

Concen: 0.122 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU035958.D

Acq: 03 Dec 2019 19:33

Instrument :

MSVOA\_U

ClientSampleId :

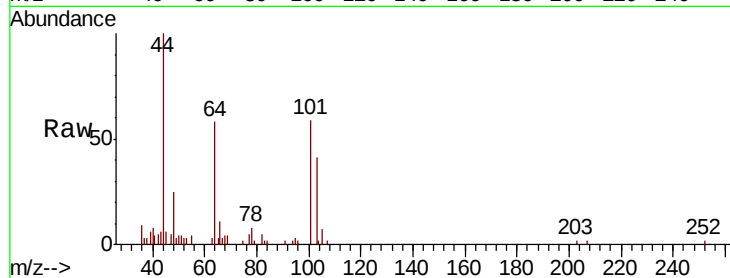
BFE27

Tot Ion:101 Resp: 5637

Ion Ratio Lower Upper

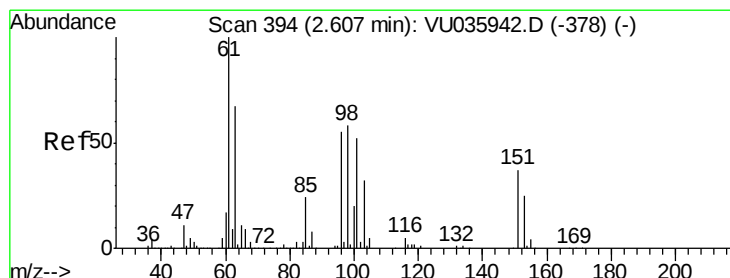
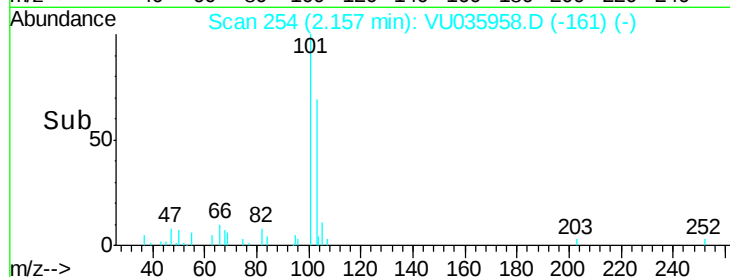
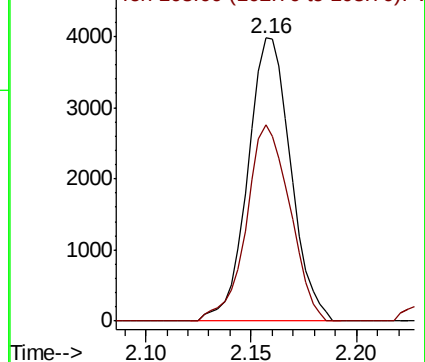
101 100

103 70.4 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.948 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035958.D

Acq: 03 Dec 2019 19:33

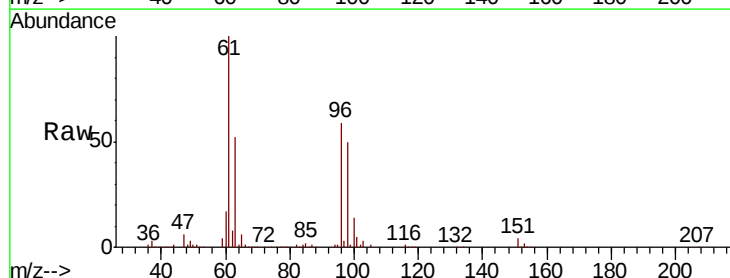
Tgt Ion:101 Resp: 24047

Ion Ratio Lower Upper

101 100

85 39.6 35.5 53.3

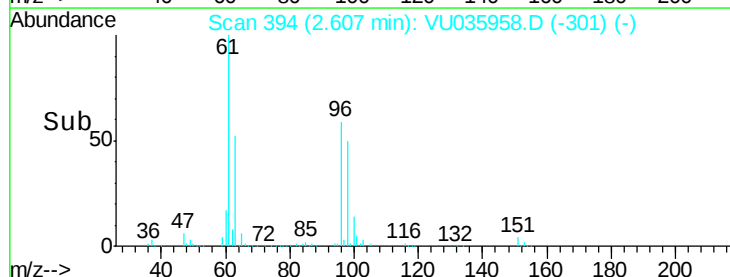
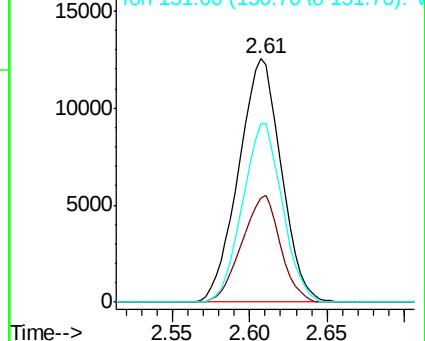
151 68.3 57.5 86.3

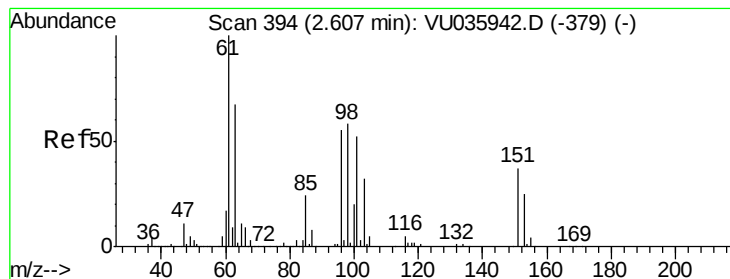


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 9.938 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035958.D

Acq: 03 Dec 2019 19:33

Instrument :

MSVOA\_U

ClientSampleId :

BFE27

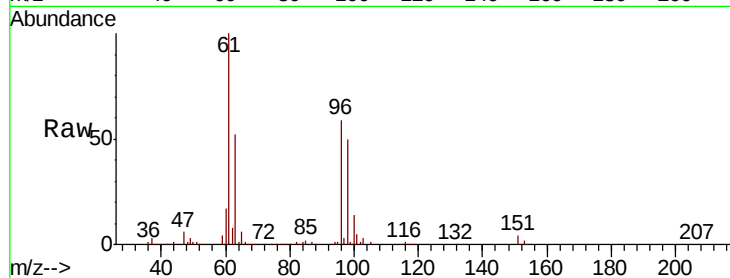
Tot Ion: 96 Resp: 235026

Ion Ratio Lower Upper

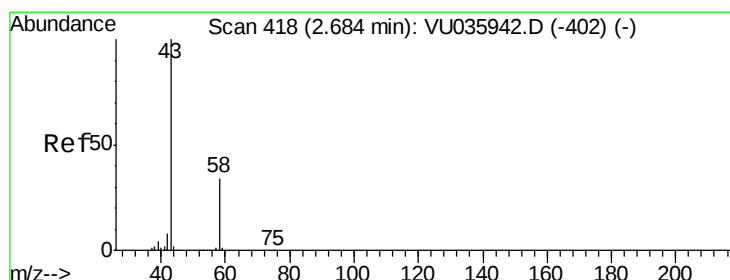
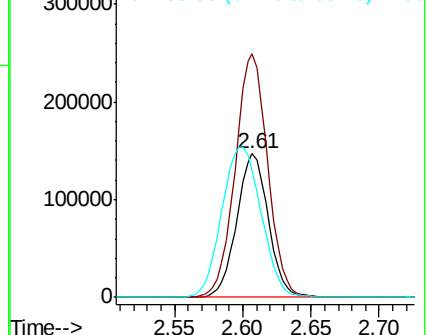
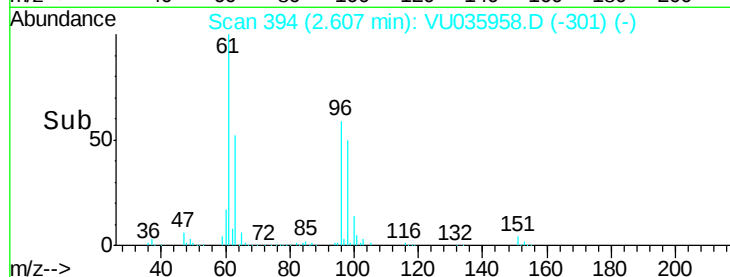
96 100

61 169.9 127.1 236.1

63 88.3 86.0 159.8



Abundance Ion 96.00 (95.70 to 96.70): VU035958.D (-301) (-)



#13

Acetone

Concen: 1.274 ug/L

RT: 2.67 min Scan# 415

Delta R.T. -0.01 min

Lab File: VU035958.D

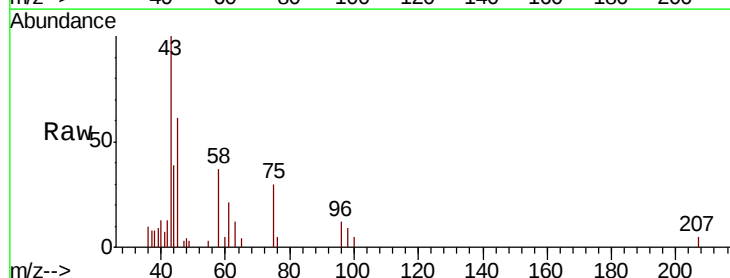
Acq: 03 Dec 2019 19:33

Tgt Ion: 43 Resp: 7673

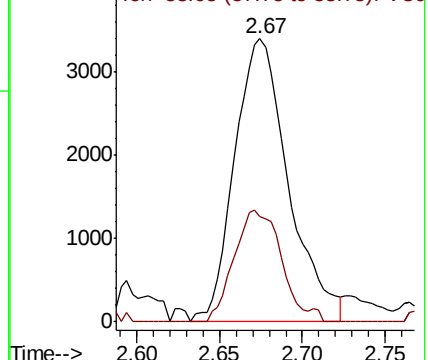
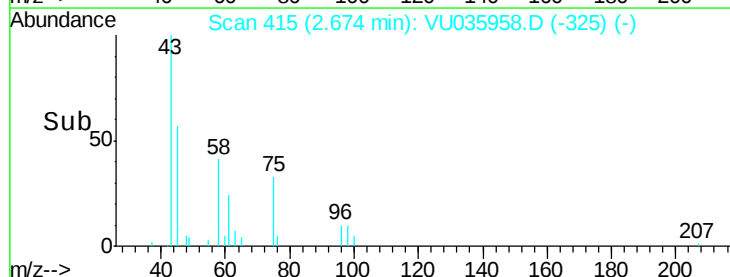
Ion Ratio Lower Upper

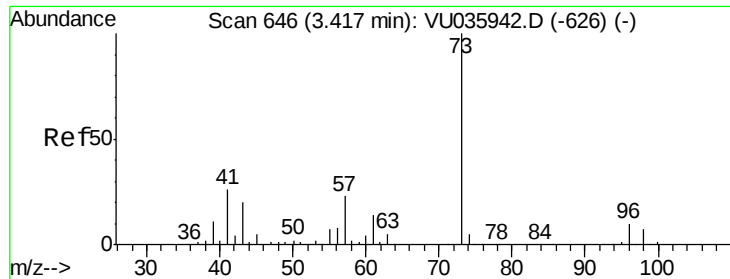
43 100

58 34.9 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU035958.D (-325) (-)

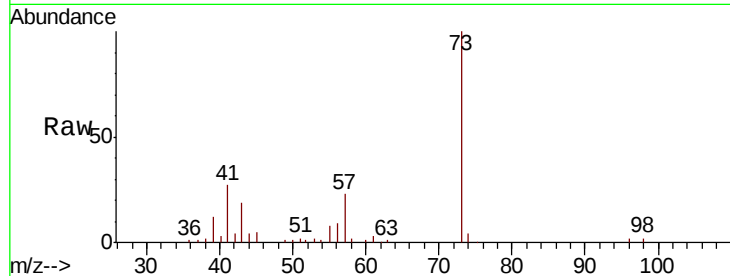




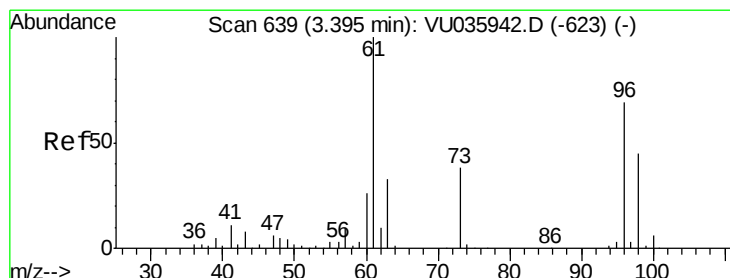
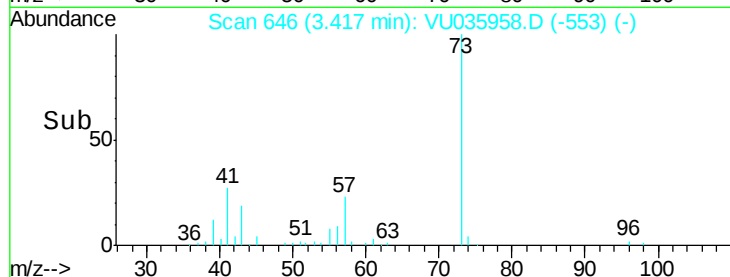
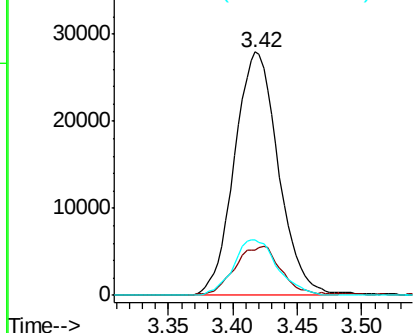
#17  
Methvl tert-butvl Ether  
Concen: 1.195 ug/L  
RT: 3.42 min Scan# 646  
Delta R.T. 0.00 min  
Lab File: VU035958.D  
Acq: 03 Dec 2019 19:33

Instrument :  
MSVOA\_U  
ClientSampled :  
BFE27

Tot Ion: 73 Resp: 66232  
Ion Ratio Lower Upper  
73 100  
43 21.3 15.9 23.9  
57 23.0 18.8 28.2

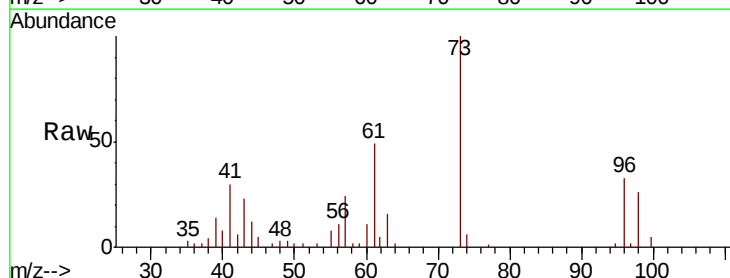


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

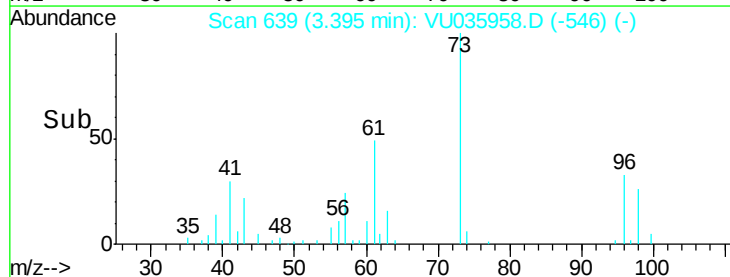
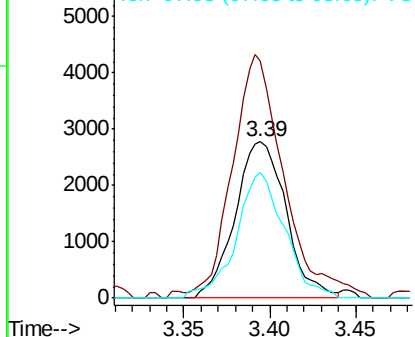


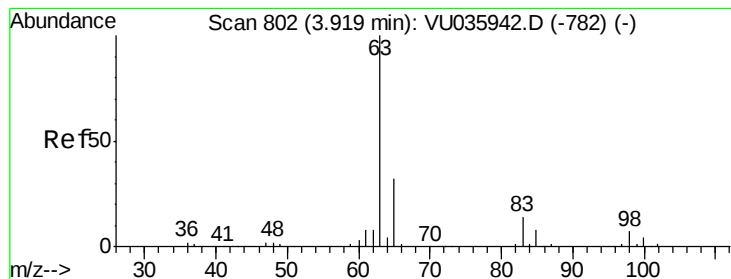
#18  
trans-1,2-Dichloroethene  
Concen: 0.229 ug/L  
RT: 3.39 min Scan# 639  
Delta R.T. 0.00 min  
Lab File: VU035958.D  
Acq: 03 Dec 2019 19:33

Tgt Ion: 96 Resp: 5746  
Ion Ratio Lower Upper  
96 100  
61 151.5 101.2 187.8  
98 80.1 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0

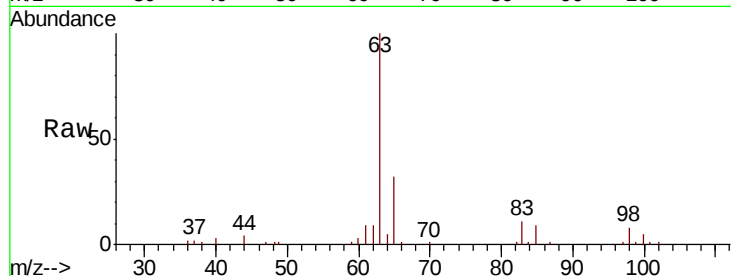




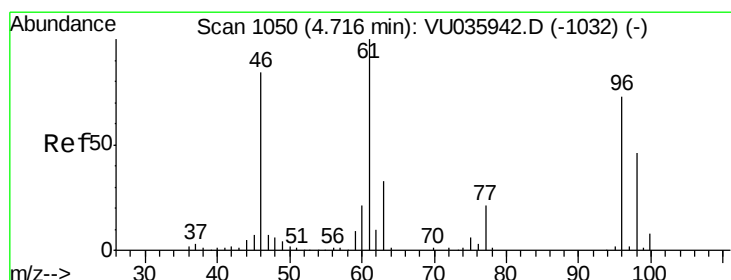
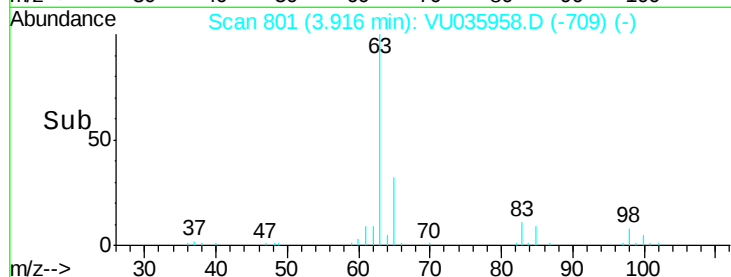
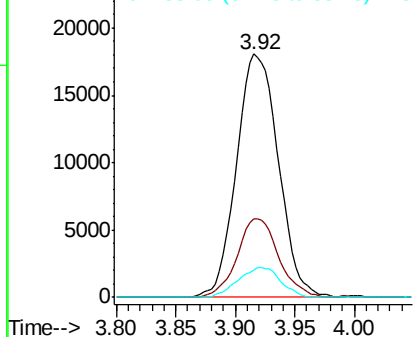
#19  
 1,1-Dichloroethane  
 Concen: 0.900 ug/L  
 RT: 3.92 min Scan# 801  
 Delta R.T. -0.00 min  
 Lab File: VU035958.D  
 Acq: 03 Dec 2019 19:33

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFE27

Tot Ion: 63 Resp: 44042  
 Ion Ratio Lower Upper  
 63 100  
 65 32.2 22.4 41.6  
 83 11.4 9.8 18.2

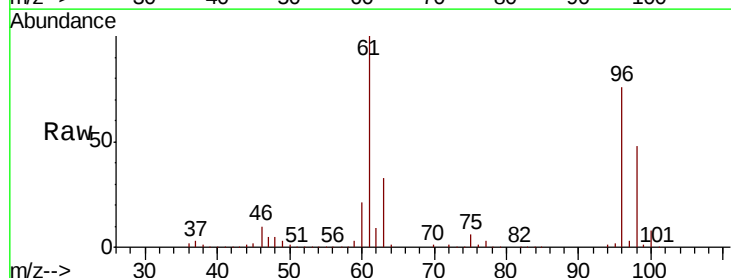


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

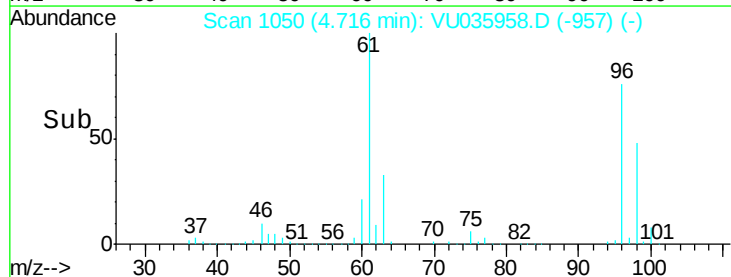
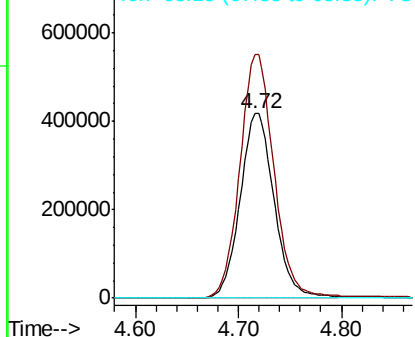


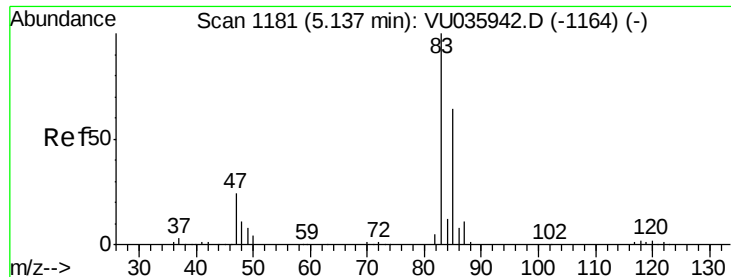
#22  
 cis-1,2-Dichloroethene  
 Concen: 36.102 ug/L  
 RT: 4.72 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VU035958.D  
 Acq: 03 Dec 2019 19:33

Tgt Ion: 96 Resp: 955140  
 Ion Ratio Lower Upper  
 96 100  
 61 131.9 95.7 177.7  
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0

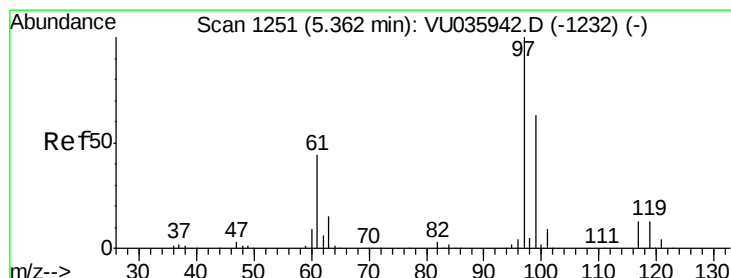
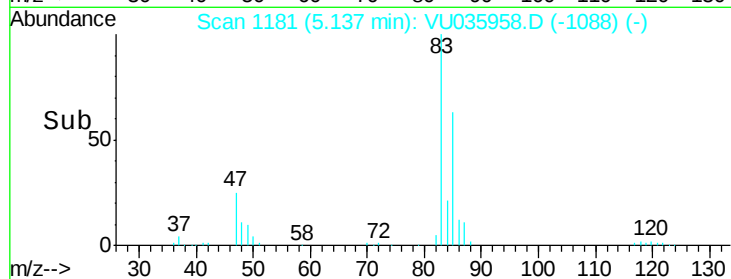
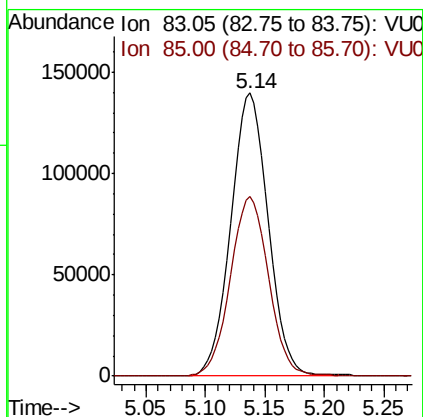
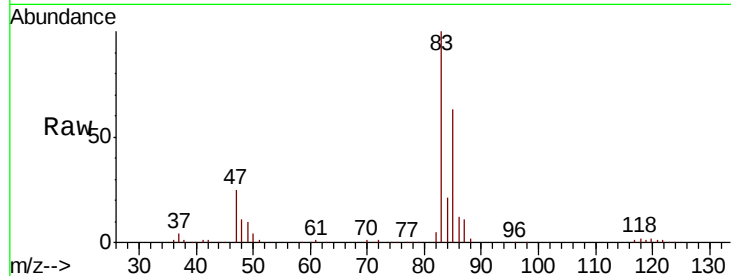




#25  
Chloroform  
Concen: 6.153 ug/L  
RT: 5.14 min Scan# 1181  
Delta R.T. 0.00 min  
Lab File: VU035958.D  
Acq: 03 Dec 2019 19:33

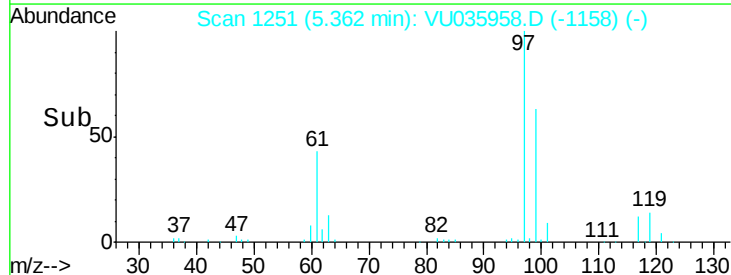
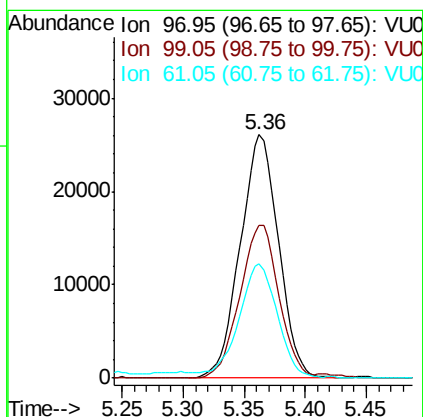
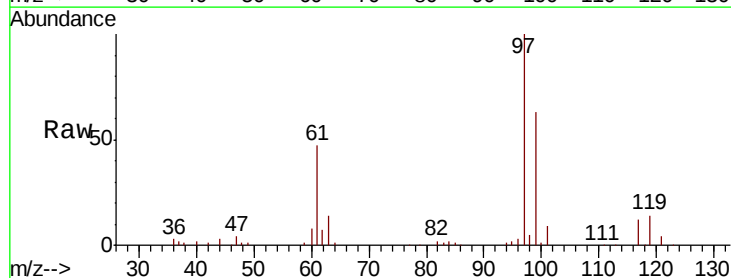
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFE27

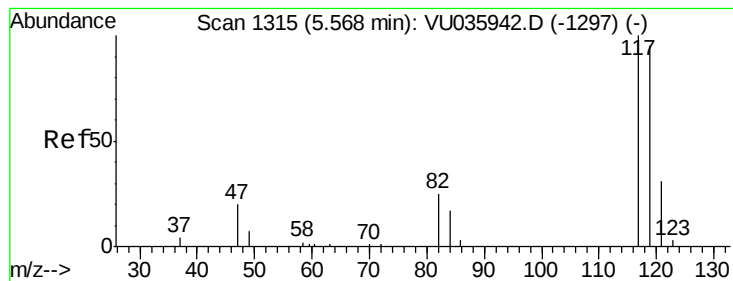
Tot Ion: 83 Resp: 303948  
Ion Ratio Lower Upper  
83 100  
85 63.4 45.4 84.2



#29  
1,1,1-Trichloroethane  
Concen: 1.325 ug/L  
RT: 5.36 min Scan# 1251  
Delta R.T. 0.00 min  
Lab File: VU035958.D  
Acq: 03 Dec 2019 19:33

Tgt Ion: 97 Resp: 56524  
Ion Ratio Lower Upper  
97 100  
99 63.9 51.8 77.8  
61 46.3 37.6 56.4





#31

Carbon tetrachloride

Concen: 4.253 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035958.D

Acq: 03 Dec 2019 19:33

Instrument :

MSVOA\_U

ClientSampleId :

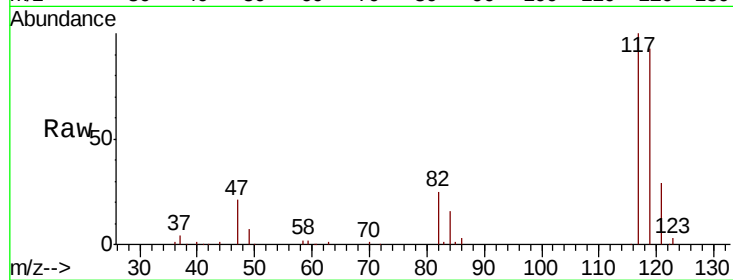
BFE27

Tot Ion:117 Resp: 160818

Ion Ratio Lower Upper

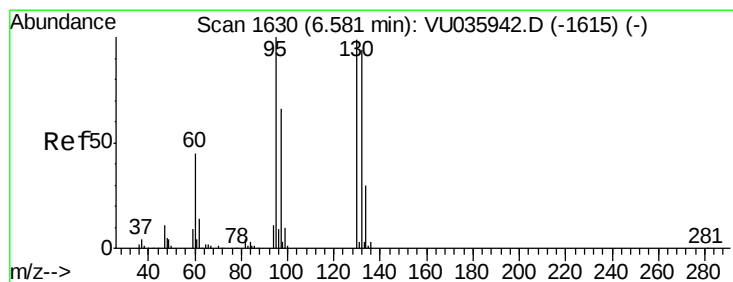
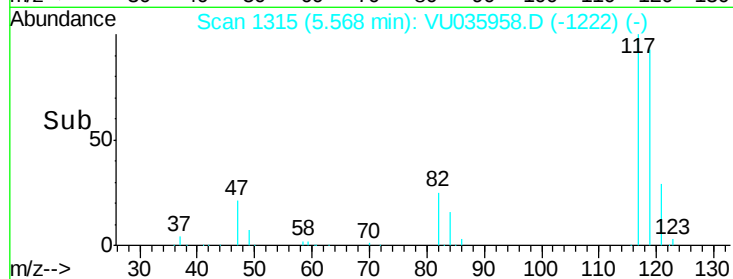
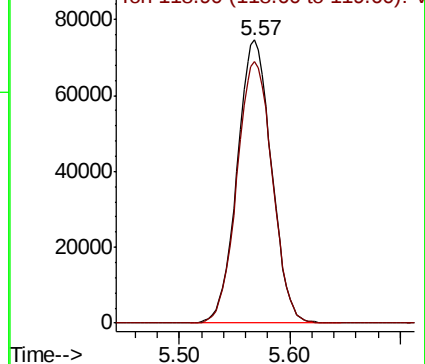
117 100

119 95.3 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 226.468 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035958.D

Acq: 03 Dec 2019 19:33

Tgt Ion: 95 Resp: 6351236

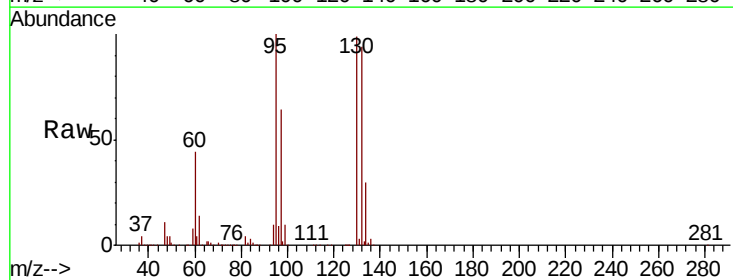
Ion Ratio Lower Upper

95 100

97 63.6 46.3 85.9

132 93.9 65.7 122.1

130 98.6 69.2 128.6

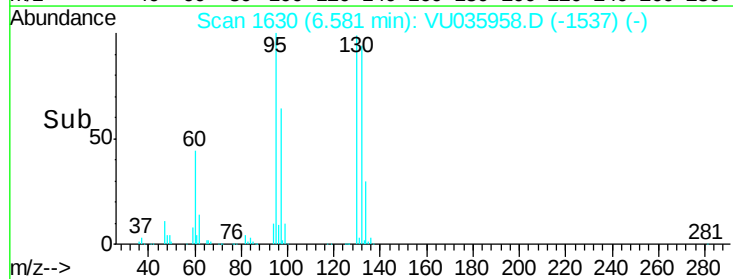
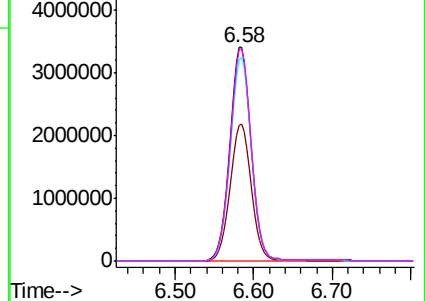


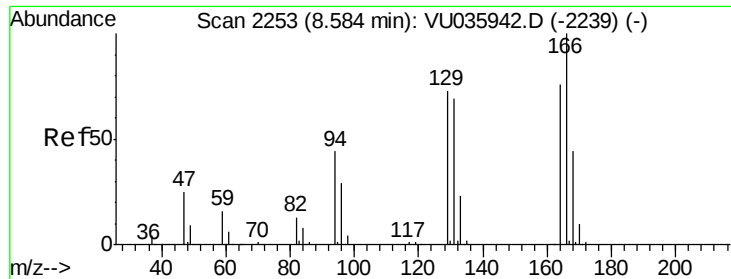
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0





#47

Tetrachloroethene

Concen: 48.241 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035958.D

Acq: 03 Dec 2019 19:33

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFE27

Tot Ion:164 Resp: 1099605

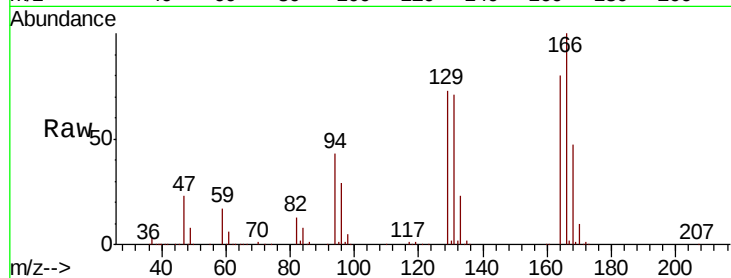
Ion Ratio Lower Upper

164 100

129 91.6 67.9 126.1

131 89.5 64.1 119.1

166 125.2 92.6 172.0



Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

