

Data File : VU036230.D  
Acq On : 16 Dec 2019 13:37  
Operator : JC/MD  
Sample : K6234-12  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFE63

Quant Time: Dec 17 01:23:18 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121319WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Dec 17 01:19:57 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 217399   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 244150   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 89871    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 87496    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 85276    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 99.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 100317   | 3.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 72.60%  |
| 20) 2-Butanone-d5              | 4.69   | 46    | 183426   | 51.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.28% |
| 24) Chloroform-d               | 5.11   | 84    | 157186   | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.20% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 82905    | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.60% |
| 32) Benzene-d6                 | 5.77   | 84    | 278081   | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 95010    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.40%  |
| 41) Toluene-d8                 | 7.93   | 98    | 232773   | 4.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 80.60%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 36778    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.40%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 155976   | 51.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.54% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 89170    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.80% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 90217    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.80% |

#### Target Compounds

|                             |       |     |        |               | Qvalue |
|-----------------------------|-------|-----|--------|---------------|--------|
| 12) 1,1-Dichloroethene      | 2.61  | 96  | 21907  | 1.358 ug/L #  | 51     |
| 13) Acetone                 | 2.68  | 43  | 5614   | 1.796 ug/L    | 96     |
| 17) Methyl tert-butyl Ether | 3.42  | 73  | 16411  | 0.475 ug/L    | 99     |
| 19) 1,1-Dichloroethane      | 3.92  | 63  | 17348  | 0.556 ug/L    | 92     |
| 22) cis-1,2-Dichloroethene  | 4.72  | 96  | 74050  | 4.087 ug/L    | 95     |
| 25) Chloroform              | 5.14  | 83  | 6252   | 0.185 ug/L    | 97     |
| 29) 1,1,1-Trichloroethane   | 5.36  | 97  | 13081  | 0.435 ug/L    | 99     |
| 34) Trichloroethene         | 6.58  | 95  | 369001 | 19.075 ug/L   | 95     |
| 35) Methylcyclohexane       | 6.73  | 83  | 22454  | 0.816 ug/L #  | 19     |
| 37) 1,2-Dichloropropane     | 6.73  | 63  | 10694  | 0.559 ug/L #  | 87     |
| 39) cis-1,3-Dichloropropene | 7.60  | 75  | 2608   | 0.100 ug/L #  | 56     |
| 45) 1,1,2-Trichloroethane   | 8.58  | 97  | 5164   | 0.360 ug/L #  | 9      |
| 47) Tetrachloroethene       | 8.58  | 164 | 655206 | 37.503 ug/L   | 98     |
| 48) 2-Hexanone              | 8.73  | 43  | 7143   | 0.956 ug/L #  | 74     |
| 49) Dibromochloromethane    | 8.58  | 129 | 577955 | 32.600 ug/L # | 12     |
| 59) 1,2,3-Trichloropropane  | 11.83 | 75  | 10255  | 0.806 ug/L    | 96     |
| 62) 1,3-Dichlorobenzene     | 11.77 | 146 | 2286   | 0.075 ug/L    | 94     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU121619\  
Quantitation Report (Not Reviewed)

Data File : VU036230.D  
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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Dec 17 01:19:57 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

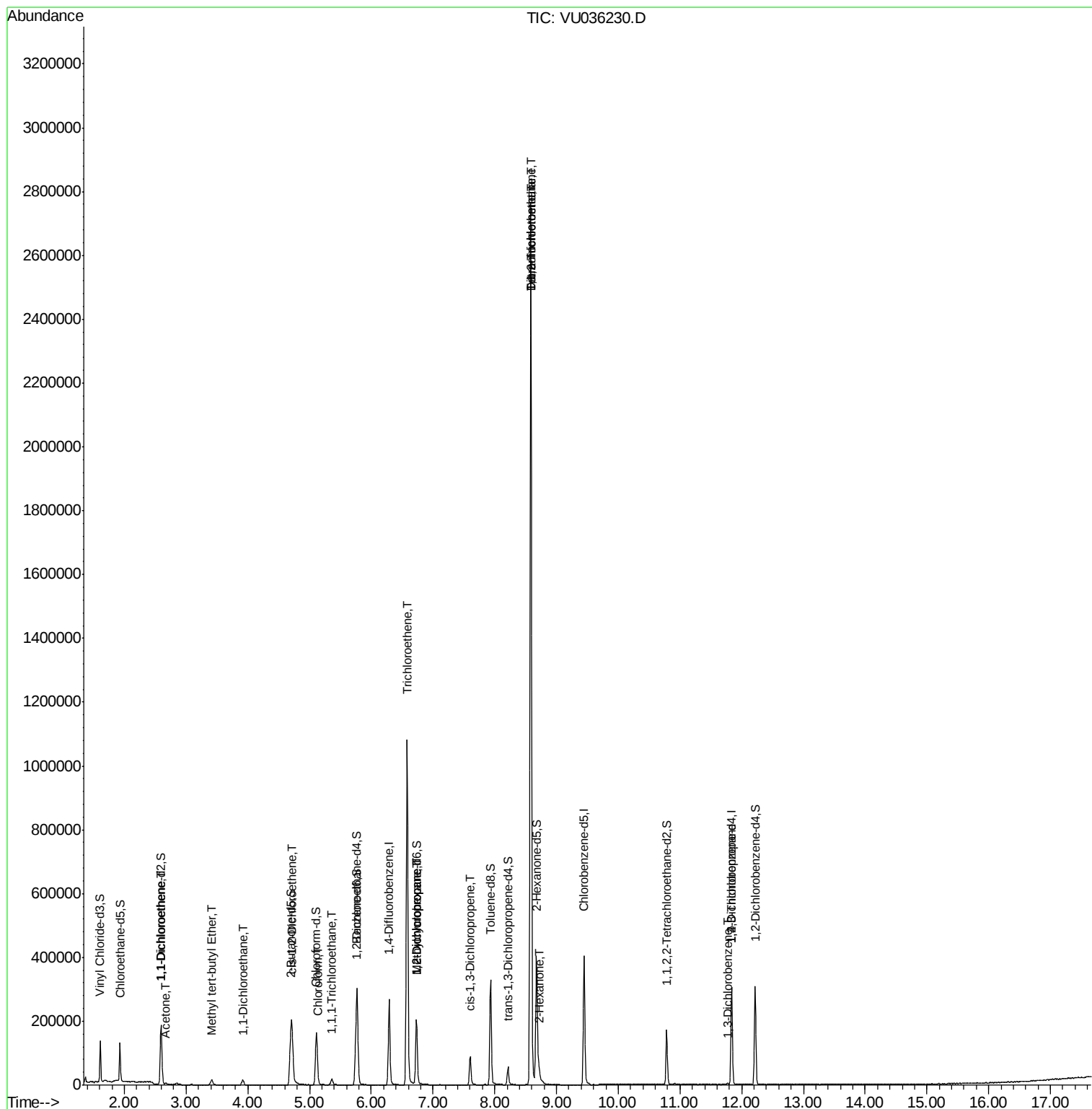
|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |

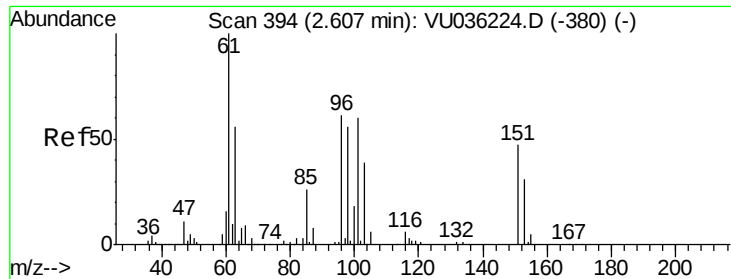
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 17 01:19:57 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 1.358 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036230.D

Acq: 16 Dec 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

BFE63

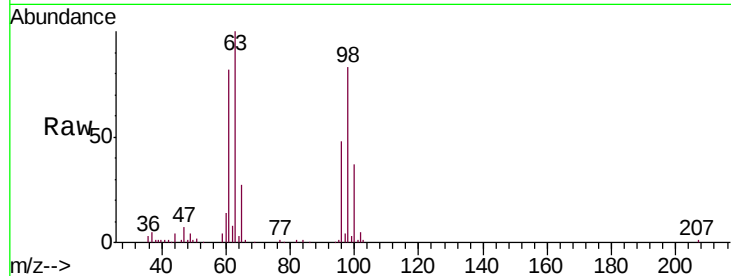
Tgt Ion: 96 Resp: 21907

Ion Ratio Lower Upper

96 100

61 171.4 114.0 211.8

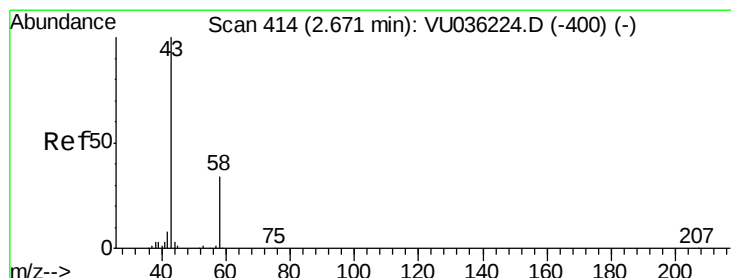
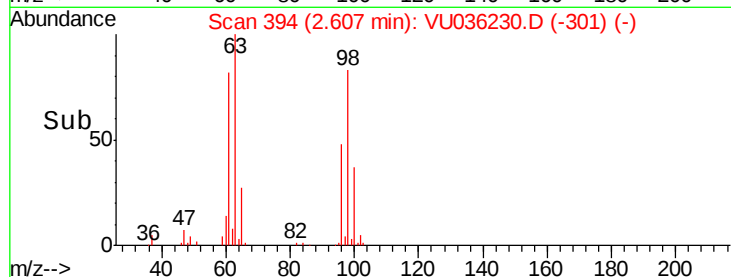
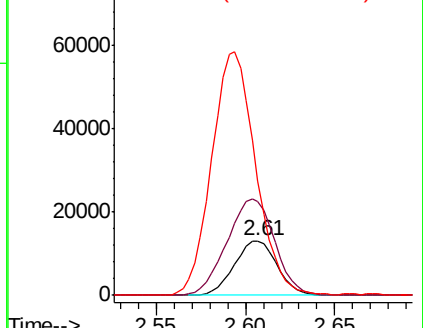
63 209.7 63.6 118.0#



Abundance Ion 96.00 (95.70 to 96.70): VU036230.D (-301) (-)

Ion 61.05 (60.75 to 61.75): VU036230.D (-301) (-)

Ion 63.00 (62.70 to 63.70): VU036230.D (-301) (-)



#13

Acetone

Concen: 1.796 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.01 min

Lab File: VU036230.D

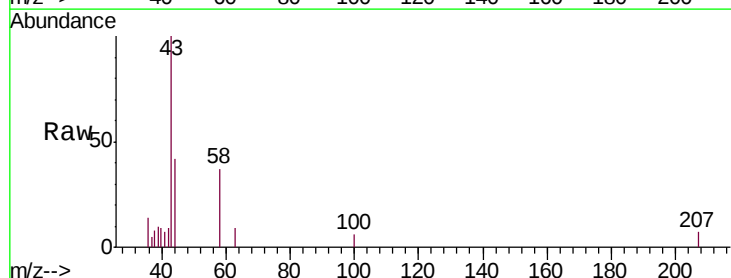
Acq: 16 Dec 2019 13:37

Tgt Ion: 43 Resp: 5614

Ion Ratio Lower Upper

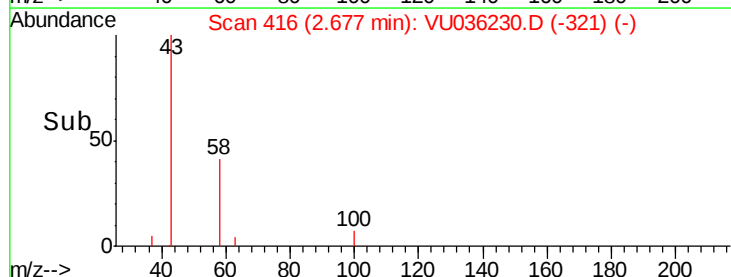
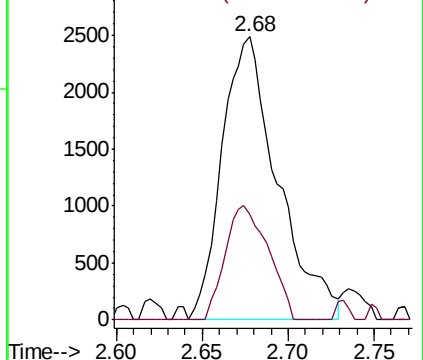
43 100

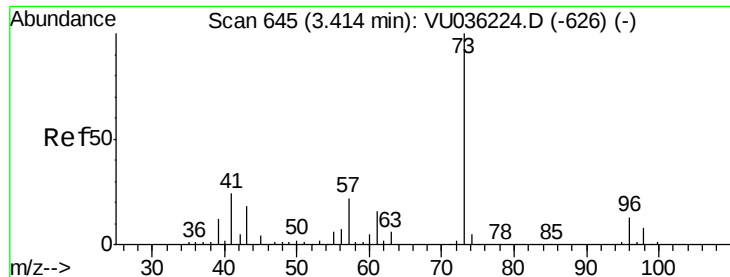
58 31.3 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036230.D (-321) (-)

Ion 58.05 (57.75 to 58.75): VU036230.D (-321) (-)





#17

Methyl tert-butyl Ether

Concen: 0.475 ug/L

RT: 3.42 min Scan# 646

Delta R.T. 0.00 min

Lab File: VU036230.D

Acq: 16 Dec 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

BFE63

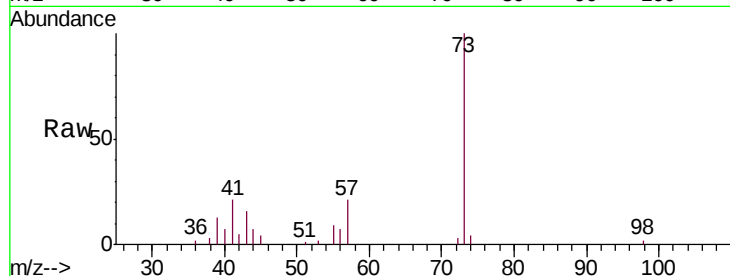
Tgt Ion: 73 Resp: 16411

Ion Ratio Lower Upper

73 100

43 19.4 15.3 22.9

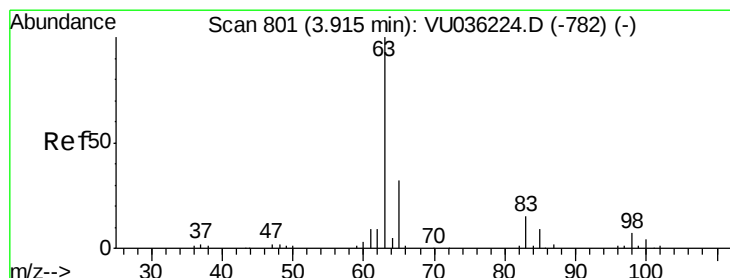
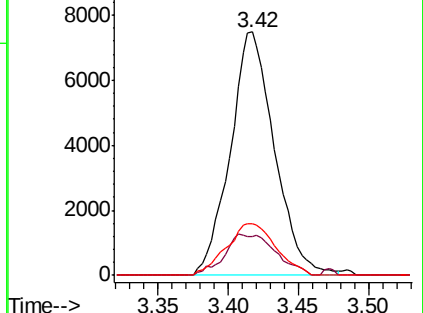
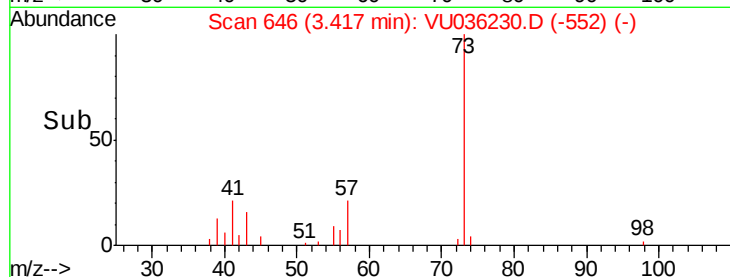
57 23.7 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VU036230.D (-552) (-)

Ion 43.05 (42.75 to 43.75): VU036230.D (-552) (-)

Ion 57.10 (56.80 to 57.80): VU036230.D (-552) (-)



#19

1,1-Dichloroethane

Concen: 0.556 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036230.D

Acq: 16 Dec 2019 13:37

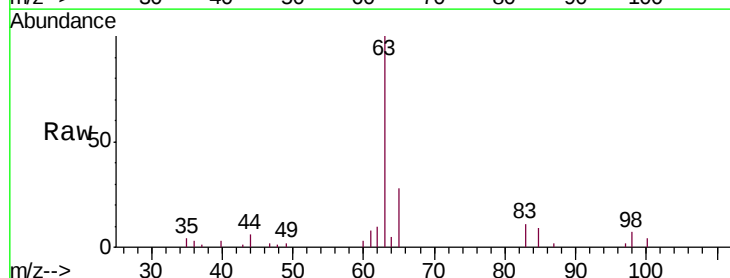
Tgt Ion: 63 Resp: 17348

Ion Ratio Lower Upper

63 100

65 27.6 22.6 42.0

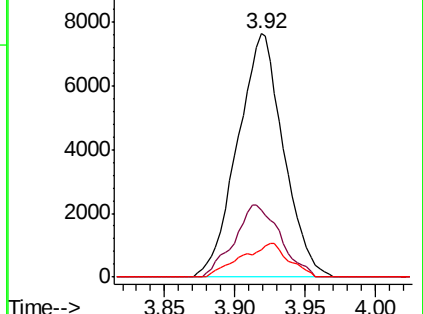
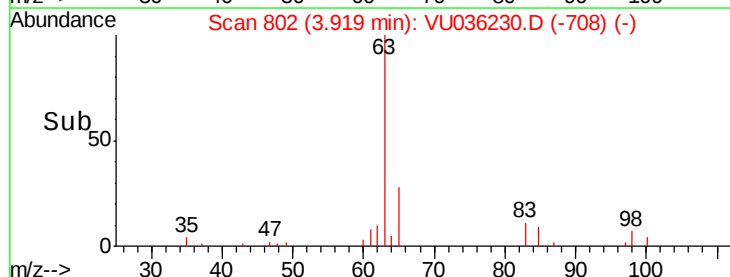
83 11.5 9.7 18.1

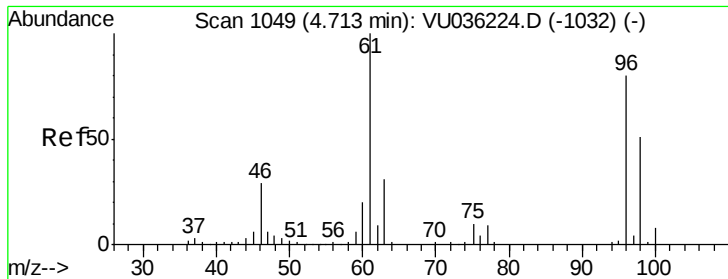


Abundance Ion 63.10 (62.80 to 63.80): VU036230.D (-708) (-)

Ion 65.10 (64.80 to 65.80): VU036230.D (-708) (-)

Ion 83.05 (82.75 to 83.75): VU036230.D (-708) (-)

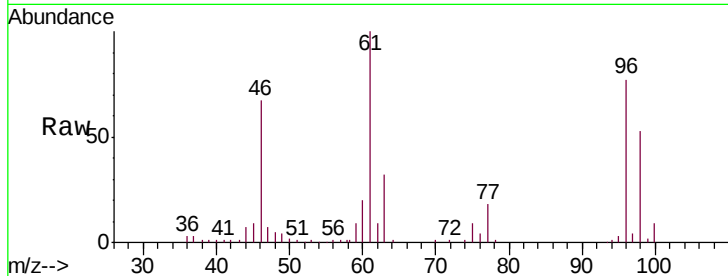




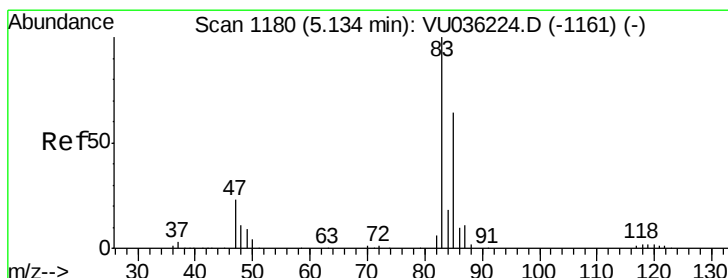
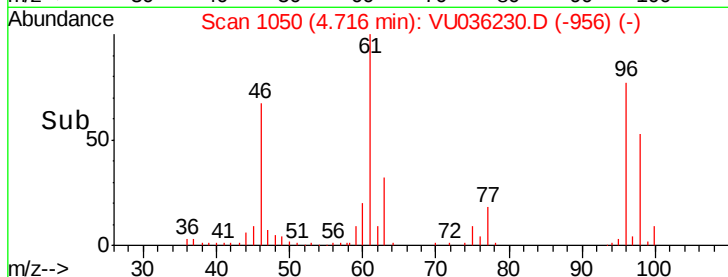
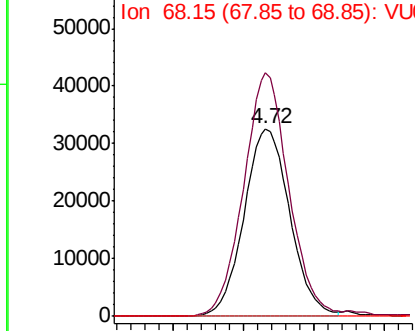
#22  
 cis-1,2-Dichloroethene  
 Concen: 4.087 ug/L  
 RT: 4.72 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VU036230.D  
 Acq: 16 Dec 2019 13:37

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFE63

Tgt Ion: 96 Resp: 74050  
 Ion Ratio Lower Upper  
 96 100  
 61 130.0 86.7 161.1  
 68 0.0 0.0 0.0

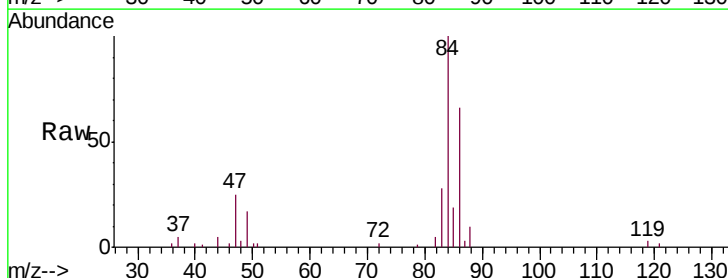


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0

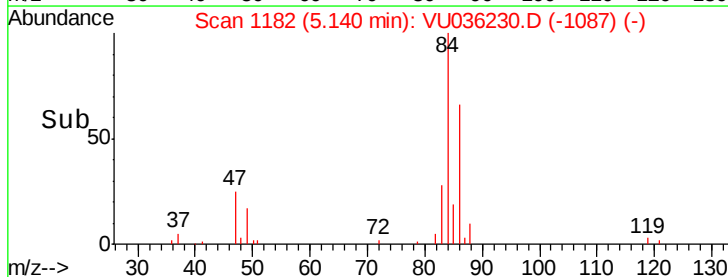
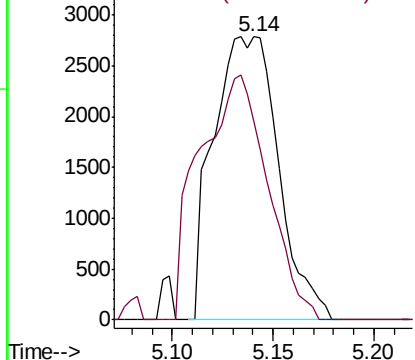


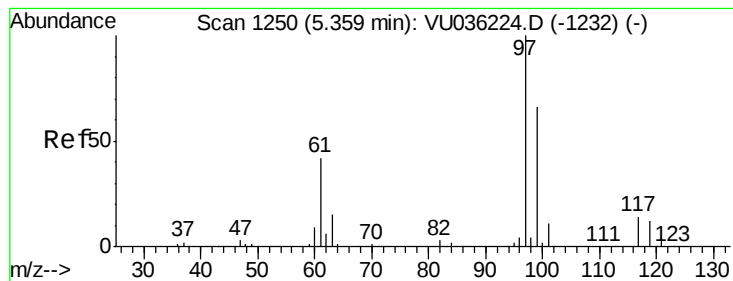
#25  
 Chloroform  
 Concen: 0.185 ug/L  
 RT: 5.14 min Scan# 1182  
 Delta R.T. 0.01 min  
 Lab File: VU036230.D  
 Acq: 16 Dec 2019 13:37

Tgt Ion: 83 Resp: 6252  
 Ion Ratio Lower Upper  
 83 100  
 85 70.4 47.5 88.1



Abundance Ion 83.05 (82.75 to 83.75): VU0  
 Ion 85.00 (84.70 to 85.70): VU0





#29

1,1,1-Trichloroethane

Concen: 0.435 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU036230.D

Acq: 16 Dec 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

BFE63

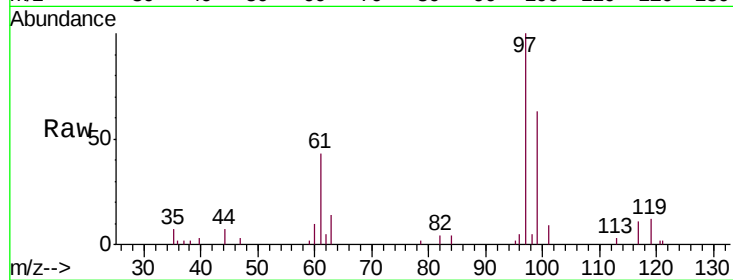
Tgt Ion: 97 Resp: 13081

Ion Ratio Lower Upper

97 100

99 62.8 51.4 77.2

61 43.6 35.0 52.6

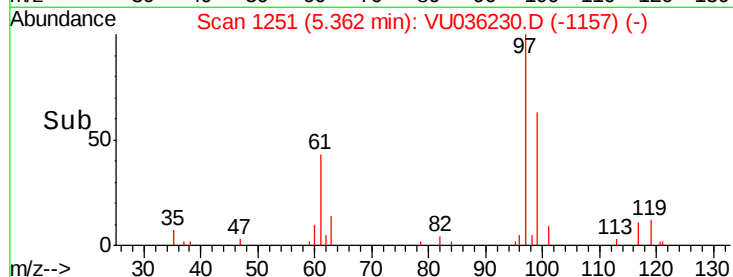


Abundance Ion 96.95 (96.65 to 97.65): VU036224.D (-1232) (-)

Ion 99.05 (98.75 to 99.75): VU036224.D (-1232) (-)

Ion 61.05 (60.75 to 61.75): VU036224.D (-1232) (-)

Time-->



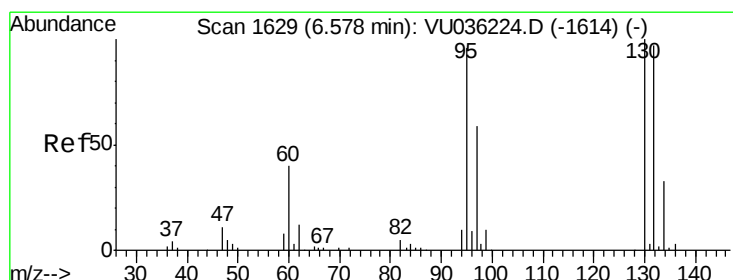
Abundance

Ion 96.95 (96.65 to 97.65): VU036230.D (-1157) (-)

Ion 99.05 (98.75 to 99.75): VU036230.D (-1157) (-)

Ion 61.05 (60.75 to 61.75): VU036230.D (-1157) (-)

Time-->



#34

Trichloroethene

Concen: 19.075 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036230.D

Acq: 16 Dec 2019 13:37

Tgt Ion: 95 Resp: 369001

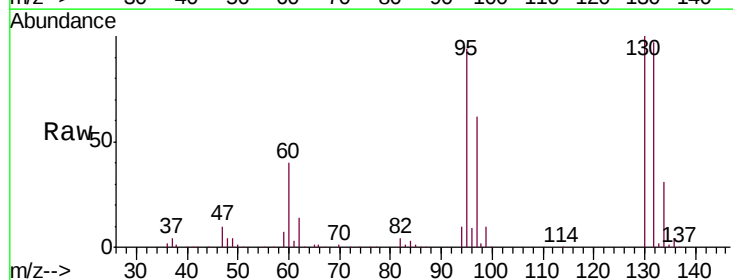
Ion Ratio Lower Upper

95 100

97 66.0 43.6 81.0

132 102.6 69.6 129.2

130 106.3 70.3 130.7



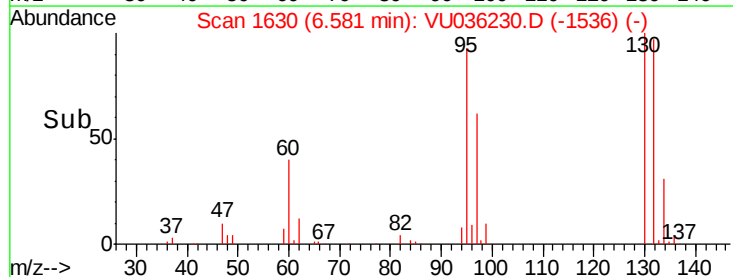
Abundance Ion 95.00 (94.70 to 95.70): VU036224.D (-1614) (-)

Ion 96.95 (96.65 to 97.65): VU036224.D (-1614) (-)

Ion 131.95 (131.65 to 132.65): VU036224.D (-1614) (-)

Ion 129.95 (129.65 to 130.65): VU036224.D (-1614) (-)

Time-->



Abundance

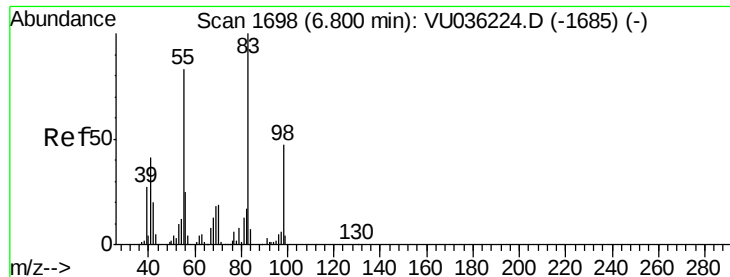
Ion 95.00 (94.70 to 95.70): VU036230.D (-1536) (-)

Ion 96.95 (96.65 to 97.65): VU036230.D (-1536) (-)

Ion 131.95 (131.65 to 132.65): VU036230.D (-1536) (-)

Ion 129.95 (129.65 to 130.65): VU036230.D (-1536) (-)

Time-->



#35

Methylcyclohexane

Concen: 0.816 ug/L

RT: 6.73 min Scan# 1676

Delta R.T. -0.07 min

Lab File: VU036230.D

Acq: 16 Dec 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

BF63

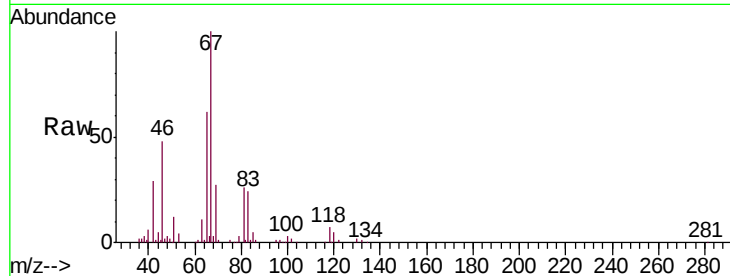
Tgt Ion: 83 Resp: 22454

Ion Ratio Lower Upper

83 100

55 0.5 62.6 94.0#

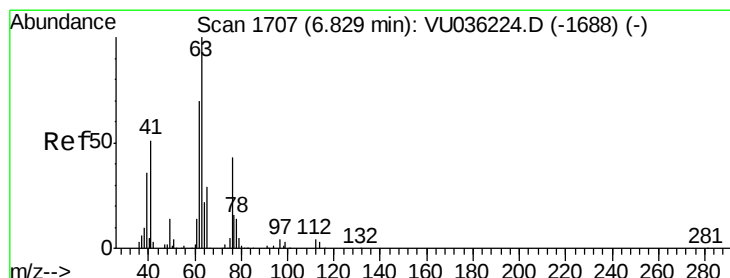
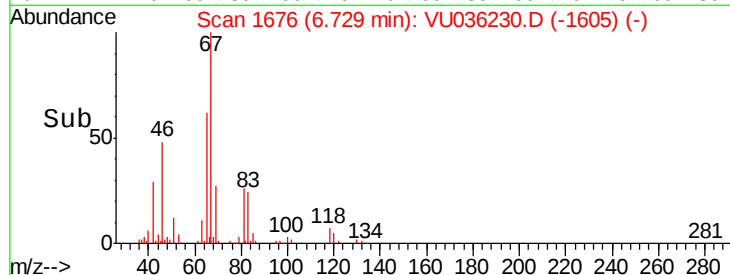
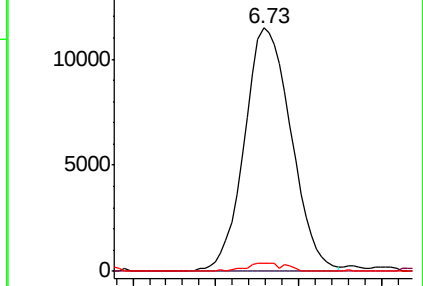
98 2.2 36.2 54.2#



Abundance Ion 83.15 (82.85 to 83.85): VU036230.D (-1676) (-)

Ion 55.10 (54.80 to 55.80): VU036230.D (-1676) (-)

Ion 98.15 (97.85 to 98.85): VU036230.D (-1676) (-)



#37

1,2-Dichloropropane

Concen: 0.559 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.10 min

Lab File: VU036230.D

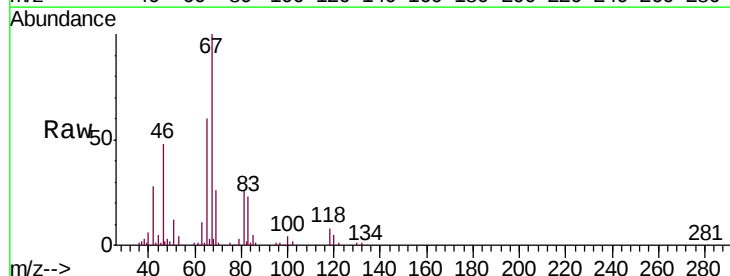
Acq: 16 Dec 2019 13:37

Tgt Ion: 63 Resp: 10694

Ion Ratio Lower Upper

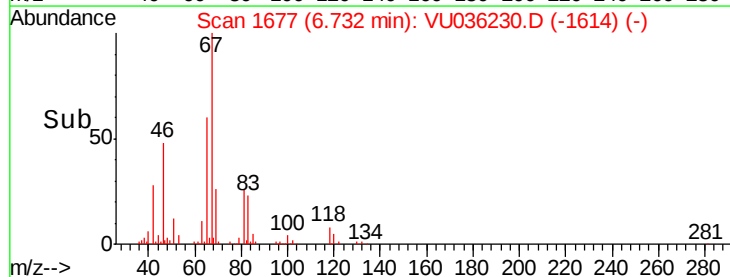
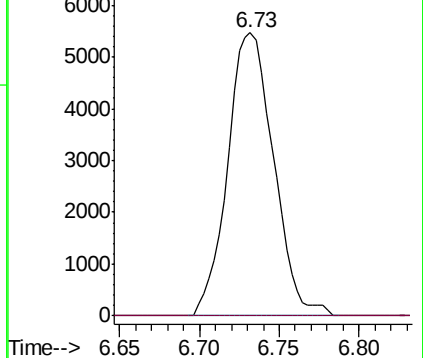
63 100

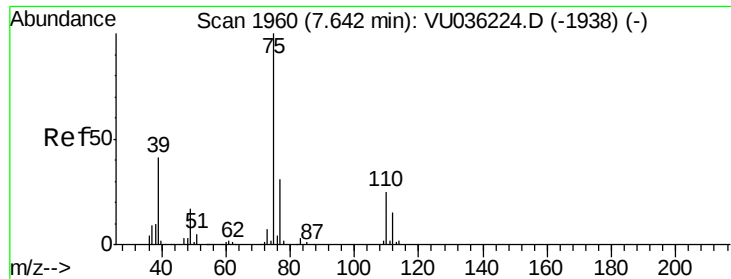
112 0.4 3.8 5.8#



Abundance Ion 63.10 (62.80 to 63.80): VU036230.D (-1677) (-)

Ion 112.10 (111.80 to 112.80): VU036230.D (-1677) (-)

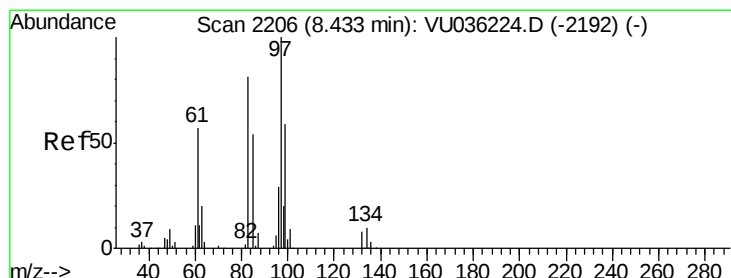
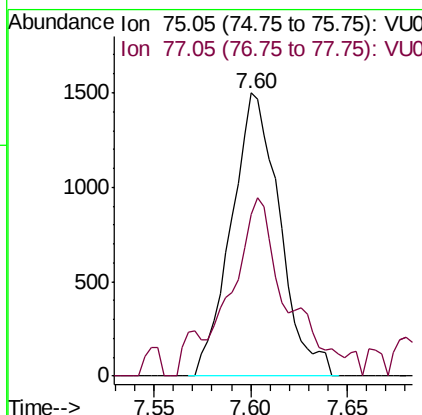
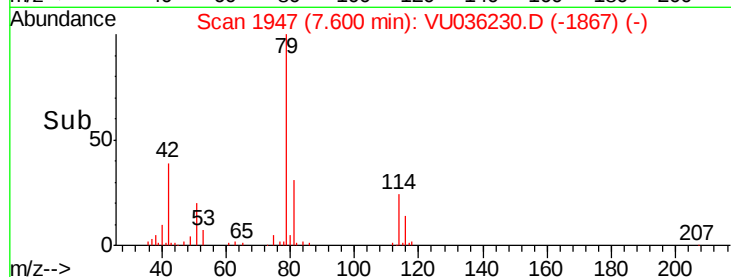
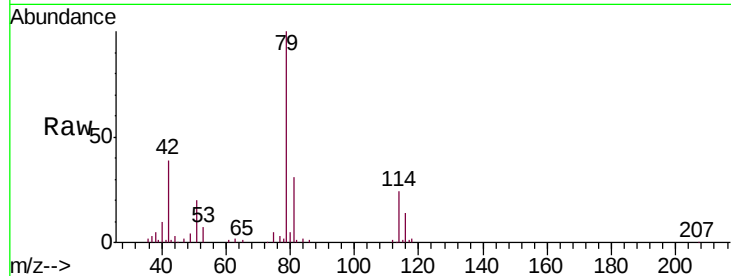




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.100 ug/L  
 RT: 7.60 min Scan# 1947  
 Delta R.T. -0.04 min  
 Lab File: VU036230.D  
 Acq: 16 Dec 2019 13:37

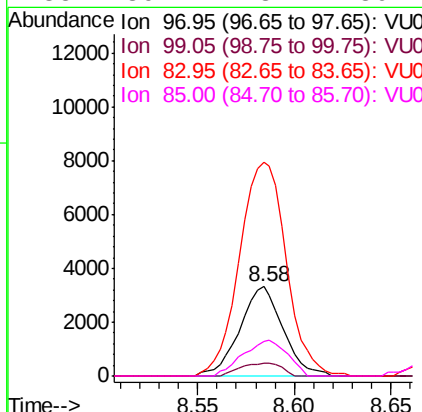
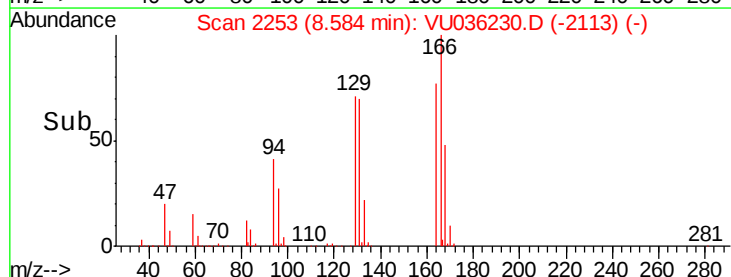
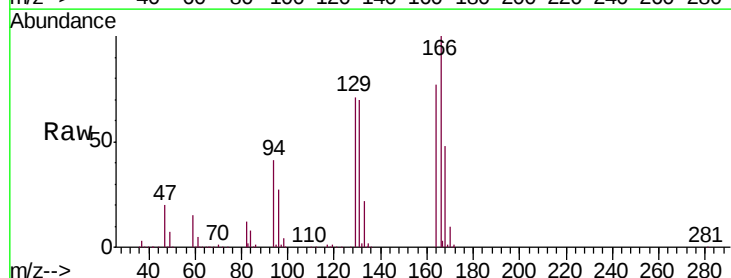
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFE63

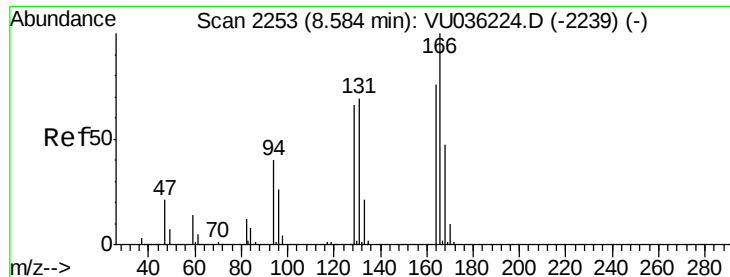
Tgt Ion: 75 Resp: 2608  
 Ion Ratio Lower Upper  
 75 100  
 77 57.2 22.7 42.1#



#45  
 1,1,2-Trichloroethane  
 Concen: 0.360 ug/L  
 RT: 8.58 min Scan# 2253  
 Delta R.T. 0.15 min  
 Lab File: VU036230.D  
 Acq: 16 Dec 2019 13:37

Tgt Ion: 97 Resp: 5164  
 Ion Ratio Lower Upper  
 97 100  
 99 14.4 46.1 85.5#  
 83 239.3 65.9 122.3#  
 85 39.2 43.1 80.1#

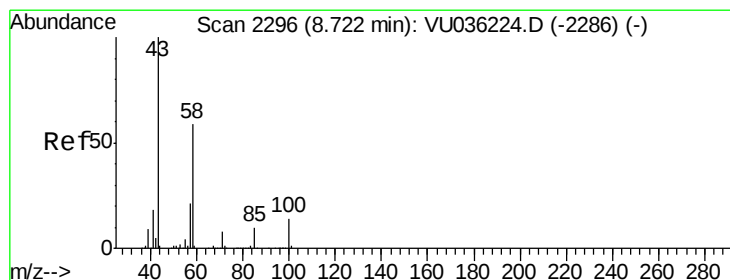
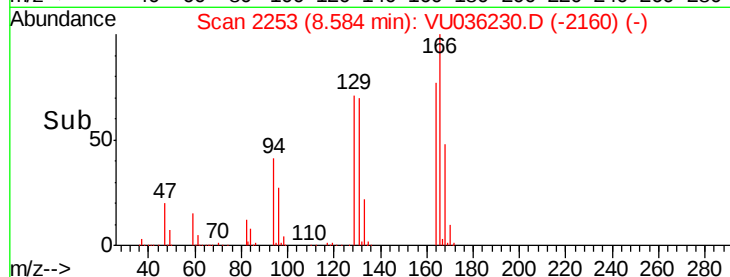
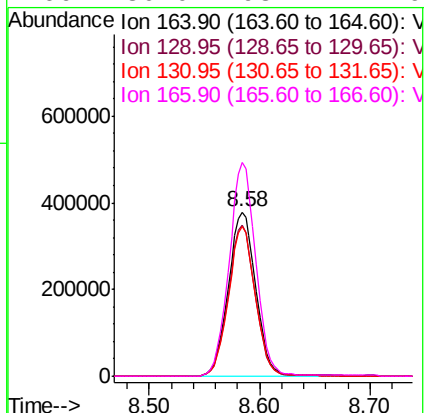
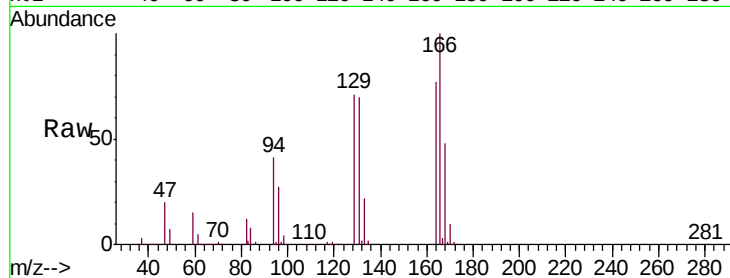




#47  
Tetrachloroethene  
Concen: 37.503 ug/L  
RT: 8.58 min Scan# 2253  
Delta R.T. -0.00 min  
Lab File: VU036230.D  
Acq: 16 Dec 2019 13:37

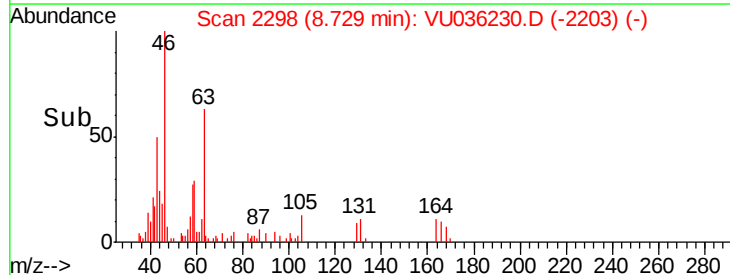
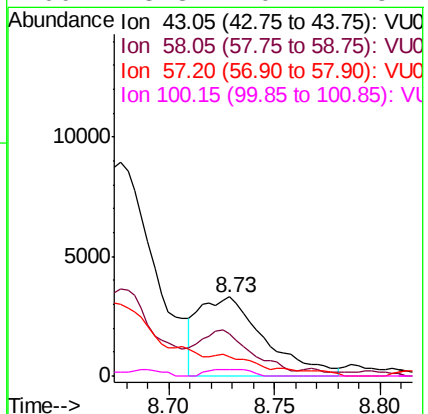
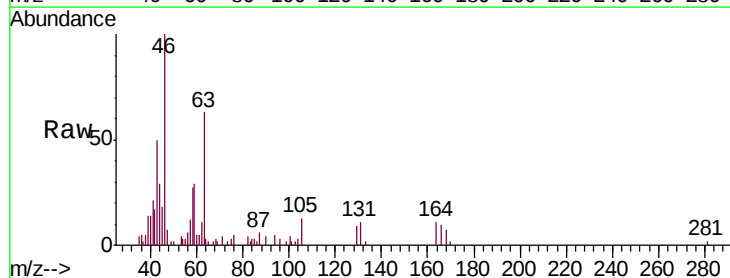
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFE63

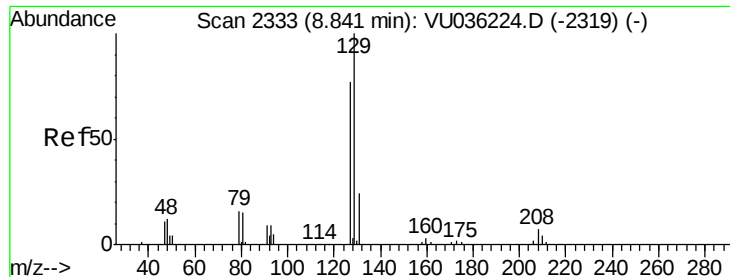
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 655206 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 91.9  | 64.2  | 119.2  |
| 131      | 91.2  | 66.6  | 123.8  |
| 166      | 130.0 | 93.1  | 172.9  |



#48  
2-Hexanone  
Concen: 0.956 ug/L  
RT: 8.73 min Scan# 2298  
Delta R.T. 0.01 min  
Lab File: VU036230.D  
Acq: 16 Dec 2019 13:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 7143  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 42.6  | 46.2  | 69.2# |
| 57       | 0.0   | 16.2  | 24.4# |
| 100      | 3.3   | 10.2  | 15.4# |





#49

Dibromochloromethane

Concen: 32.600 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU036230.D

Acq: 16 Dec 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

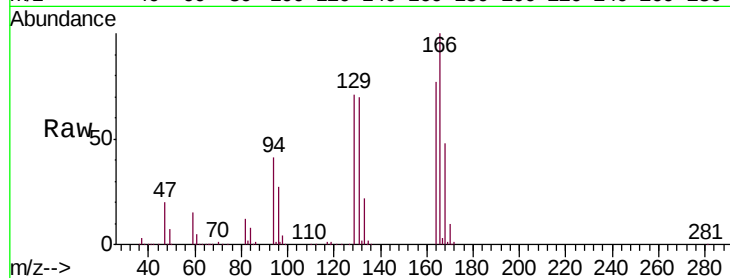
BFE63

Tgt Ion:129 Resp: 577955

Ion Ratio Lower Upper

129 100

127 0.1 52.6 97.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.58

400000

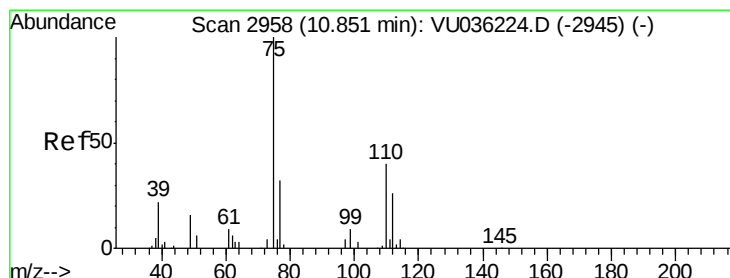
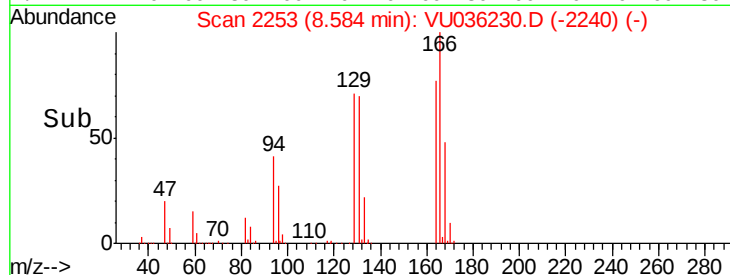
300000

200000

100000

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.806 ug/L

RT: 11.83 min Scan# 3264

Delta R.T. 0.98 min

Lab File: VU036230.D

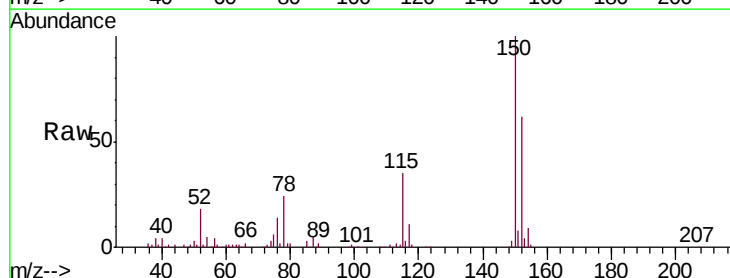
Acq: 16 Dec 2019 13:37

Tgt Ion: 75 Resp: 10255

Ion Ratio Lower Upper

75 100

77 36.1 27.2 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.83

6000

5000

4000

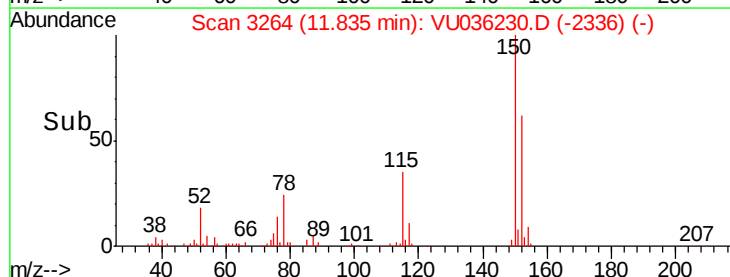
3000

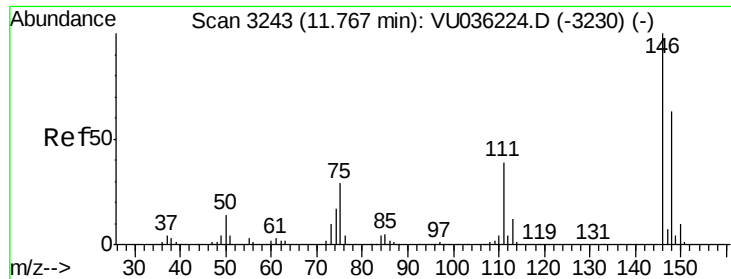
2000

1000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 0.075 ug/L

RT: 11.77 min Scan# 3245

Delta R.T. 0.01 min

Lab File: VU036230.D

Acq: 16 Dec 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

BF63

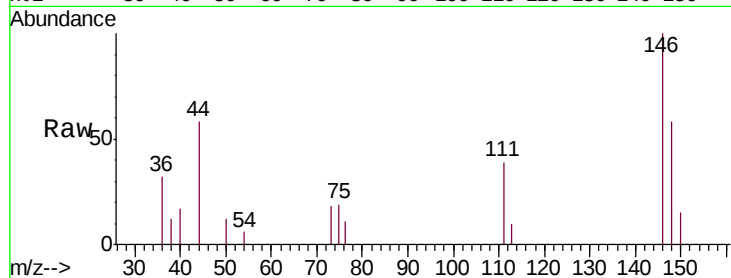
Tgt Ion:146 Resp: 2286

Ion Ratio Lower Upper

146 100

111 38.9 26.3 48.9

148 58.4 45.1 83.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

