

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU040120\  
 Data File : VU037527.D  
 Acq On : 01 Apr 2020 16:09  
 Operator : JC/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV03

Quant Time: Apr 01 18:17:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR040120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Apr 01 15:49:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 91602    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 85839    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 41661    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 36189    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 27791    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 64865    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 95.20%  |
| 20) 2-Butanone-d5              | 4.69   | 46    | 106060   | 50.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.88% |
| 24) Chloroform-d               | 5.11   | 84    | 64967    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 34170    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.00%  |
| 32) Benzene-d6                 | 5.76   | 84    | 125272   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 42047    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.80%  |
| 41) Toluene-d8                 | 7.93   | 98    | 116288   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.80%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 19378    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.20%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 92286    | 48.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 97.46%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 33271    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 40851    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.20%  |

## Target Compounds

|                                |      |     |       |       |      | Qvalue |
|--------------------------------|------|-----|-------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 30314 | 4.28  | ug/L | 98     |
| 3) Chloromethane               | 1.53 | 50  | 33881 | 4.62  | ug/L | 99     |
| 5) Vinyl chloride              | 1.62 | 62  | 34141 | 4.60  | ug/L | 97     |
| 6) Bromomethane                | 1.87 | 94  | 17903 | 5.05  | ug/L | 99     |
| 8) Chloroethane                | 1.95 | 64  | 19608 | 4.33  | ug/L | 96     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 47709 | 4.37  | ug/L | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 27424 | 4.37  | ug/L | 97     |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 27253 | 4.50  | ug/L | 98     |
| 13) Acetone                    | 2.69 | 43  | 52629 | 44.84 | ug/L | 98     |
| 14) Carbon disulfide           | 2.82 | 76  | 91216 | 4.58  | ug/L | 97     |
| 15) Methyl Acetate             | 2.99 | 43  | 14194 | 4.08  | ug/L | 98     |
| 16) Methylene chloride         | 3.08 | 84  | 30950 | 4.35  | ug/L | 95     |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 78153 | 4.59  | ug/L | 98     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 29160 | 4.43  | ug/L | 94     |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 55630 | 4.50  | ug/L | 96     |
| 21) 2-Butanone                 | 4.76 | 43  | 97079 | 47.02 | ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 32259 | 4.49  | ug/L | 96     |

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 Operator : JC/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

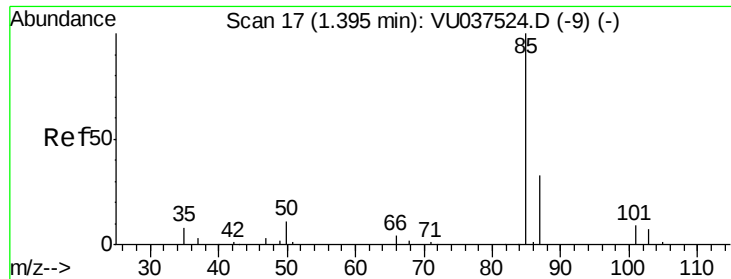
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV03

Quant Time: Apr 01 18:17:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR040120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Apr 01 15:49:36 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane         | 5.02  | 128  | 13846    | 4.43  | ug/L  | 96       |
| 25) Chloroform                 | 5.13  | 83   | 57229    | 4.50  | ug/L  | 95       |
| 27) 1,2-Dichloroethane         | 5.83  | 62   | 37760    | 4.63  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 5.36  | 97   | 49382    | 4.47  | ug/L  | 98       |
| 30) Cyclohexane                | 5.42  | 56   | 50996    | 4.25  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 5.56  | 117  | 40001    | 4.45  | ug/L  | 99       |
| 33) Benzene                    | 5.81  | 78   | 122915   | 4.51  | ug/L  | 100      |
| 34) Trichloroethene            | 6.57  | 95   | 33007    | 4.59  | ug/L  | 94       |
| 35) Methylcyclohexane          | 6.79  | 83   | 51679    | 4.29  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.83  | 63   | 33978    | 4.62  | ug/L  | 99       |
| 38) Bromodichloromethane       | 7.14  | 83   | 43418    | 4.63  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.64  | 75   | 51452    | 4.57  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.82  | 43   | 241062   | 47.06 | ug/L  | 99       |
| 42) Toluene                    | 8.00  | 91   | 130598   | 4.51  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 45331    | 4.59  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 22711    | 4.42  | ug/L  | 96       |
| 47) Tetrachloroethene          | 8.58  | 164  | 21481    | 4.57  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.71  | 43   | 172165   | 46.41 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.83  | 129  | 28095    | 4.59  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 22725    | 4.54  | ug/L  | 97       |
| 51) Chlorobenzene              | 9.47  | 112  | 81439    | 4.56  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.59  | 91   | 148155   | 4.49  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.72  | 106  | 54459    | 4.39  | ug/L  | 94       |
| 54) o-Xylene                   | 10.12 | 106  | 53482    | 4.48  | ug/L  | 97       |
| 55) Styrene                    | 10.13 | 104  | 95083    | 4.61  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.50 | 105  | 143783   | 4.42  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 31427    | 4.54  | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 22392    | 4.64  | ug/L  | 96       |
| 61) Bromoform                  | 10.31 | 173  | 16096    | 4.69  | ug/L  | 96       |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 63673    | 4.62  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 65227    | 4.66  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 12.23 | 146  | 61718    | 4.68  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 6059     | 4.79  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 13.25 | 180  | 45873    | 4.61  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 44051    | 4.76  | ug/L  | 99       |
| 69) Naphthalene                | 14.12 | 128  | 102195   | 4.97  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.37 | 180  | 40610    | 4.95  | ug/L  | 96       |

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





#2

Dichlorodifluoromethane

Concen: 4.28 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

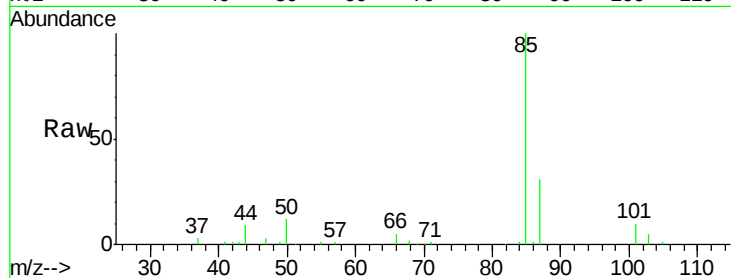
VICV03

Tgt Ion: 85 Resp: 30314

Ion Ratio Lower Upper

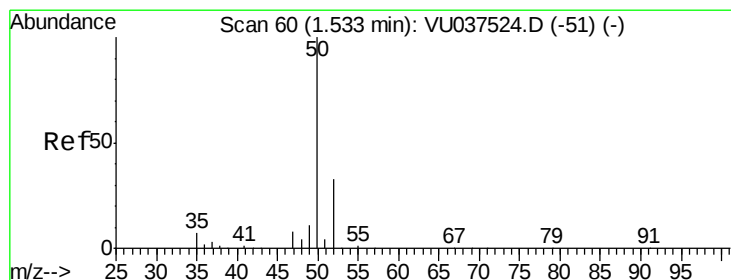
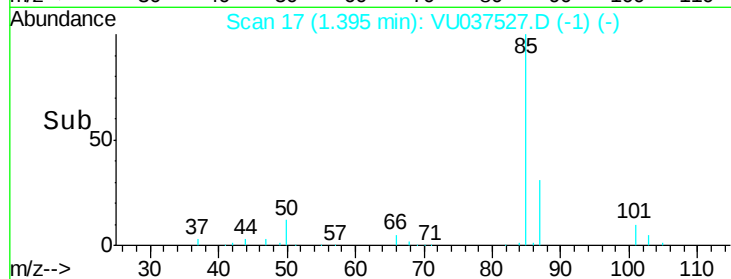
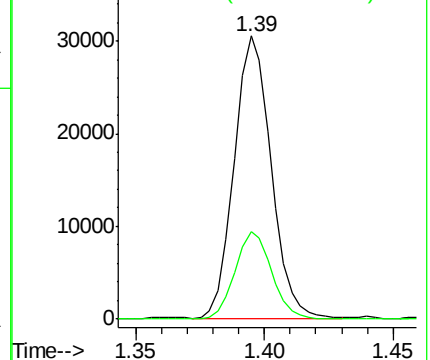
85 100

87 31.0 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.62 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037527.D

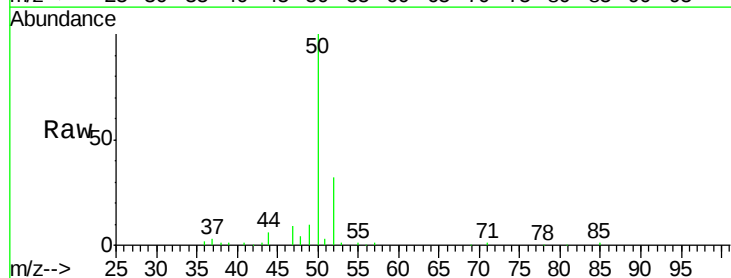
Acq: 01 Apr 2020 16:09

Tgt Ion: 50 Resp: 33881

Ion Ratio Lower Upper

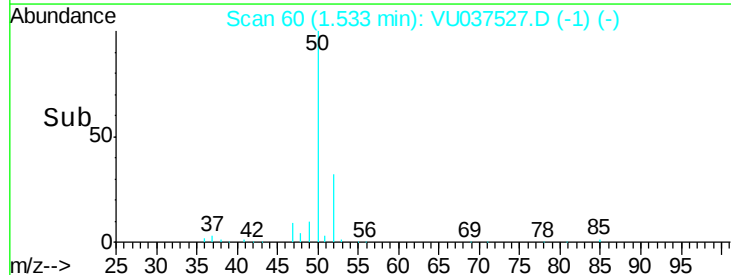
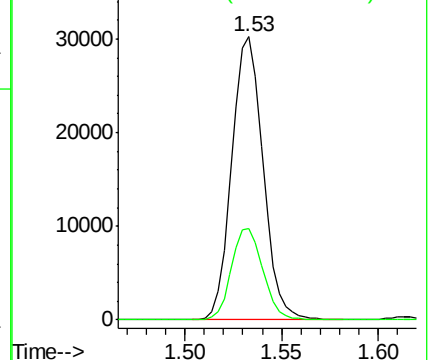
50 100

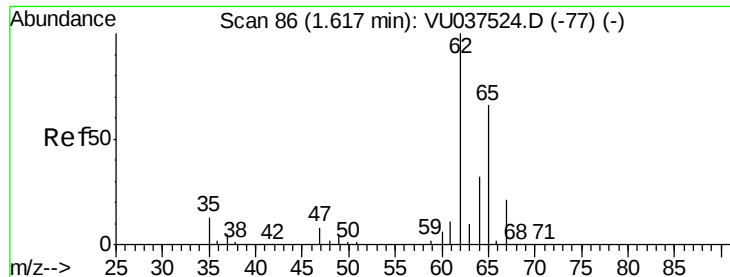
52 32.2 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.60 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

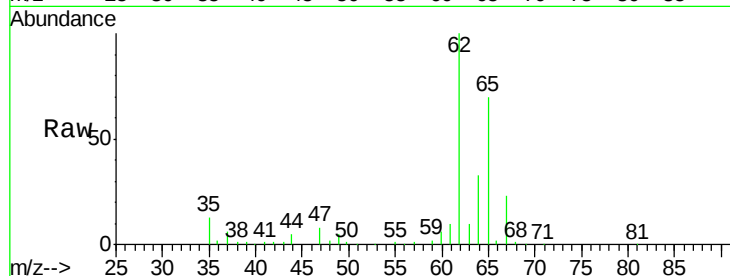
VICV03

Tgt Ion: 62 Resp: 34141

Ion Ratio Lower Upper

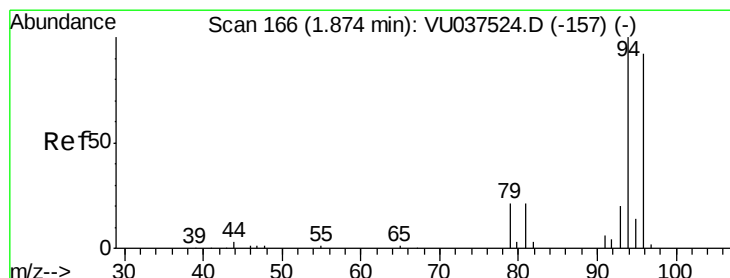
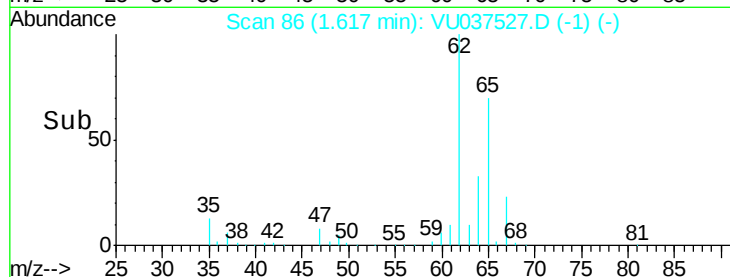
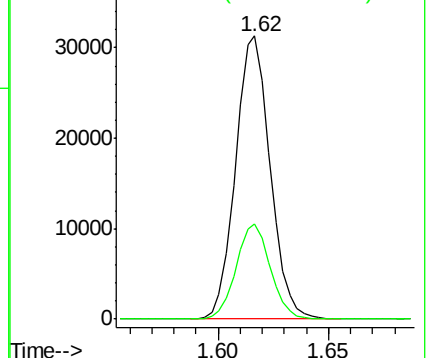
62 100

64 33.4 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 5.05 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU037527.D

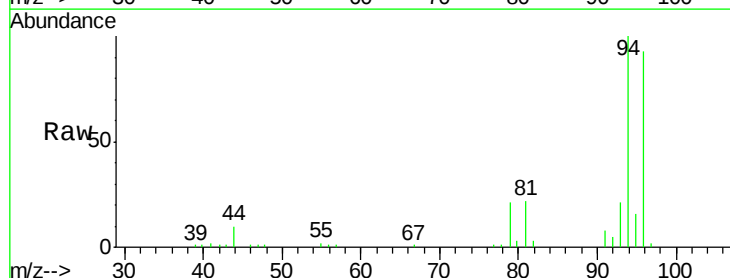
Acq: 01 Apr 2020 16:09

Tgt Ion: 94 Resp: 17903

Ion Ratio Lower Upper

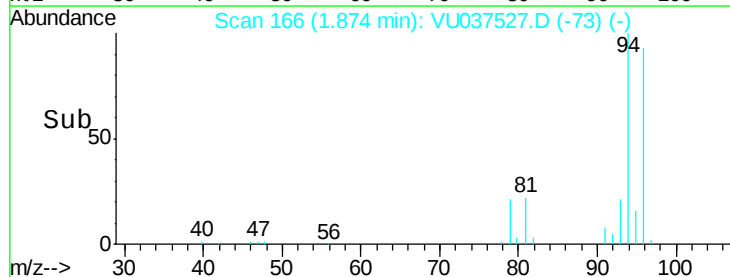
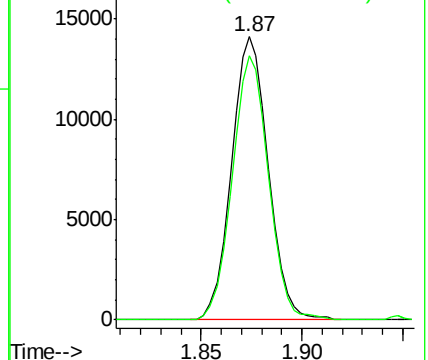
94 100

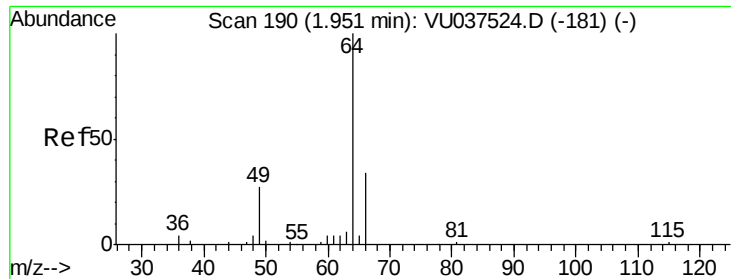
96 93.1 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

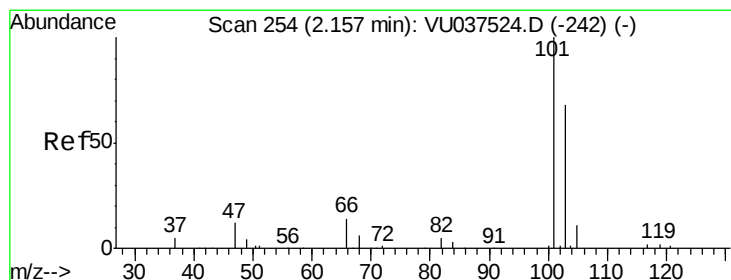
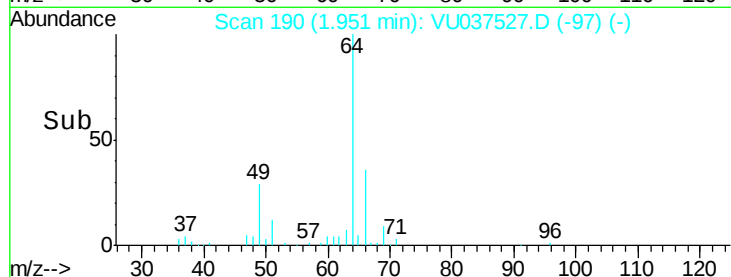
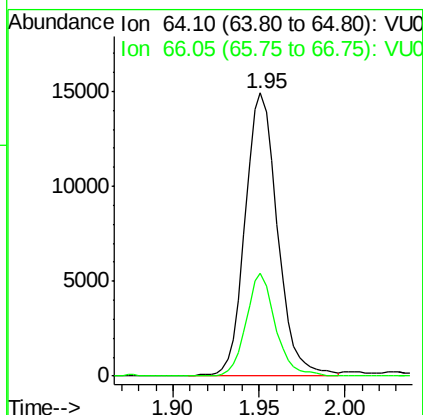
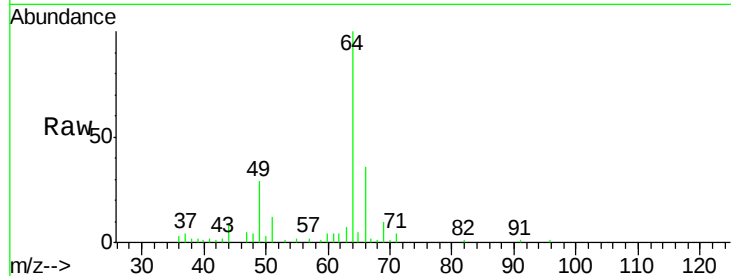




#8  
Chloroethane  
Concen: 4.33 ug/L  
RT: 1.95 min Scan# 190  
Delta R.T. -0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

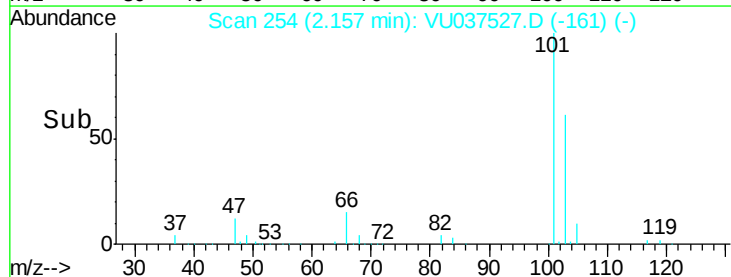
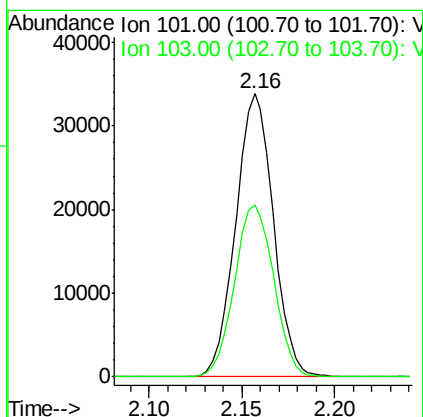
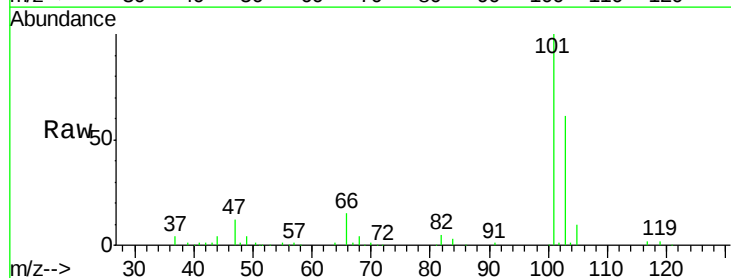
Instrument :  
MSVOA\_U  
ClientSampled :  
VICV03

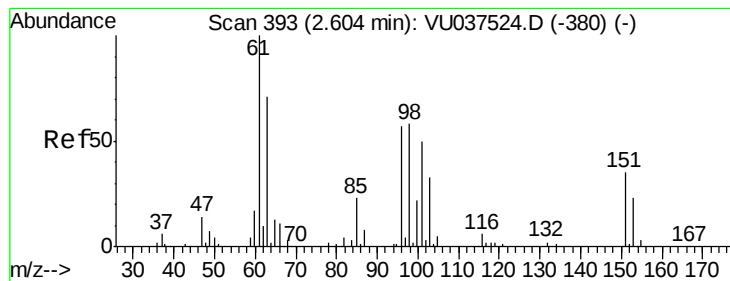
Tgt Ion: 64 Resp: 19608  
Ion Ratio Lower Upper  
64 100  
66 36.4 24.1 44.7



#9  
Trichlorofluoromethane  
Concen: 4.37 ug/L  
RT: 2.16 min Scan# 254  
Delta R.T. -0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

Tgt Ion: 101 Resp: 47709  
Ion Ratio Lower Upper  
101 100  
103 63.3 53.2 79.8





#10

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

Concen: 4.37 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

VICV03

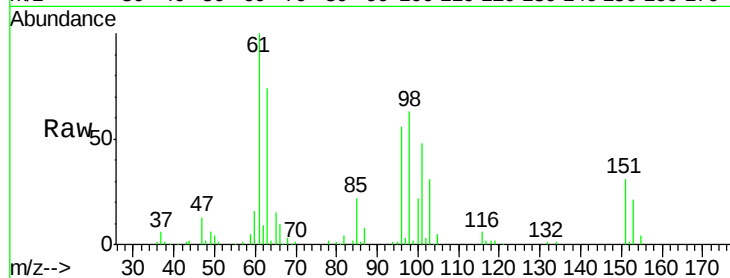
Tgt Ion:101 Resp: 27424

Ion Ratio Lower Upper

101 100

85 46.6 35.8 53.8

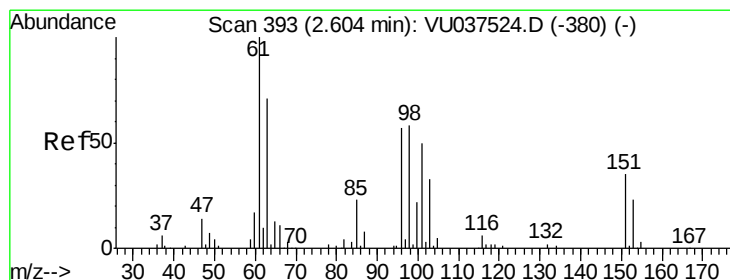
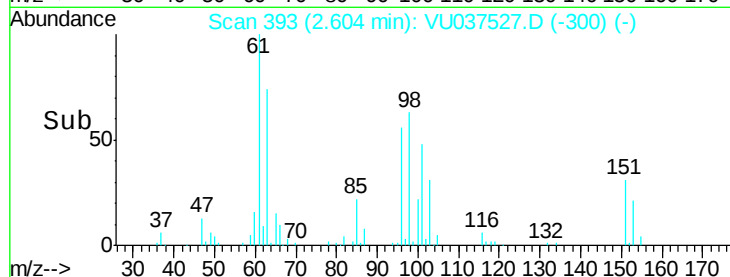
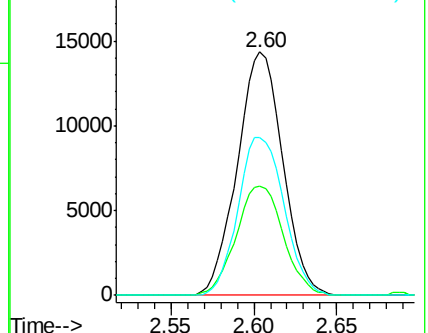
151 65.8 54.7 82.1



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: 4.50 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

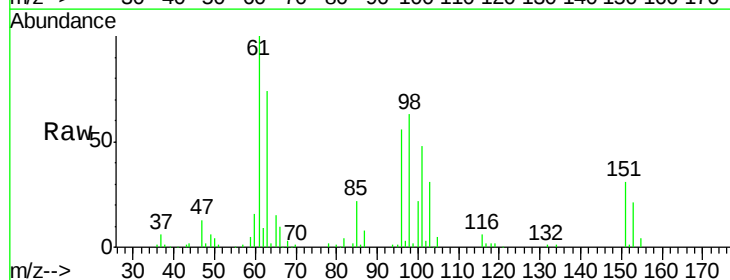
Tgt Ion: 96 Resp: 27253

Ion Ratio Lower Upper

96 100

61 178.3 123.4 229.2

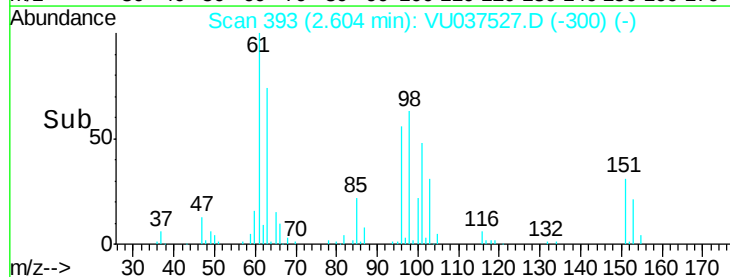
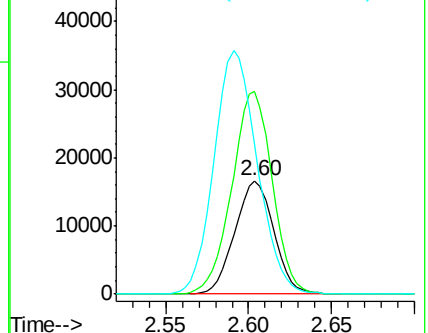
63 132.5 90.4 168.0

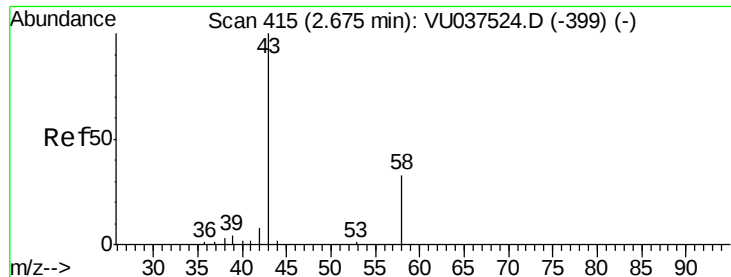


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.84 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.01 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

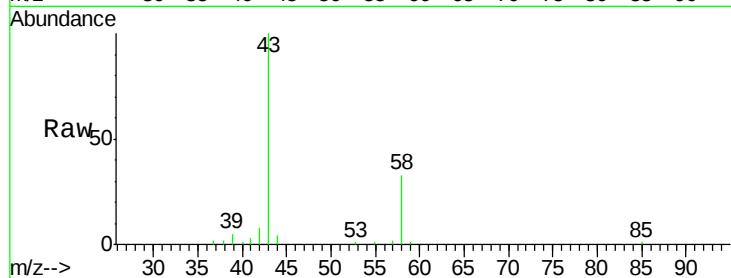
VICV03

Tgt Ion: 43 Resp: 52629

Ion Ratio Lower Upper

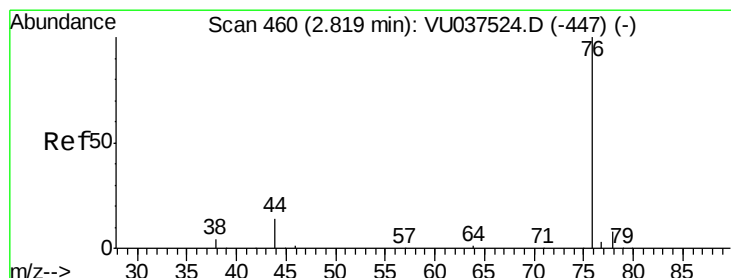
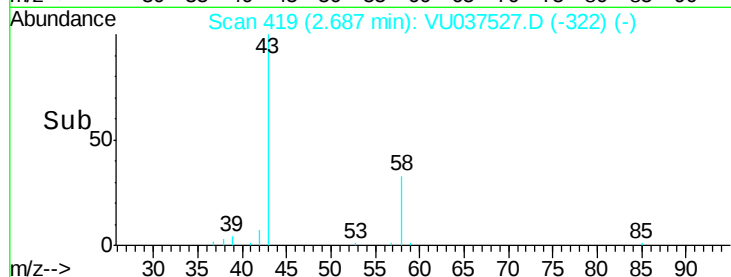
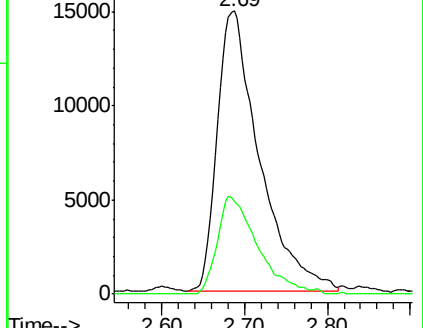
43 100

58 33.0 0.0 68.2



Abundance Ion 43.05 (42.75 to 43.75): VU037527.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU037527.D (-322) (-)



#14

Carbon disulfide

Concen: 4.58 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037527.D

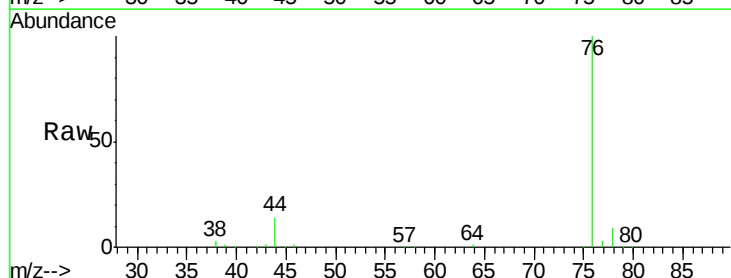
Acq: 01 Apr 2020 16:09

Tgt Ion: 76 Resp: 91216

Ion Ratio Lower Upper

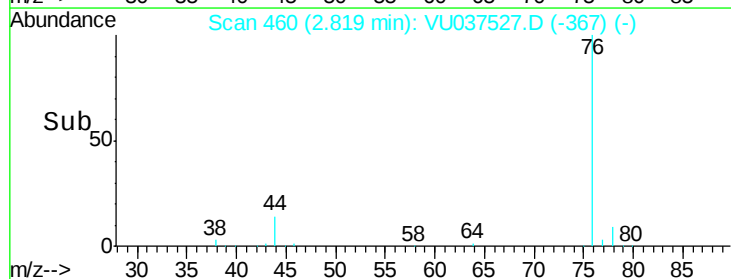
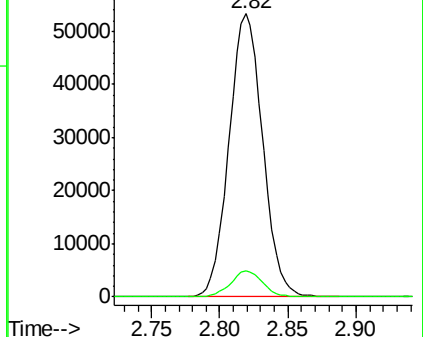
76 100

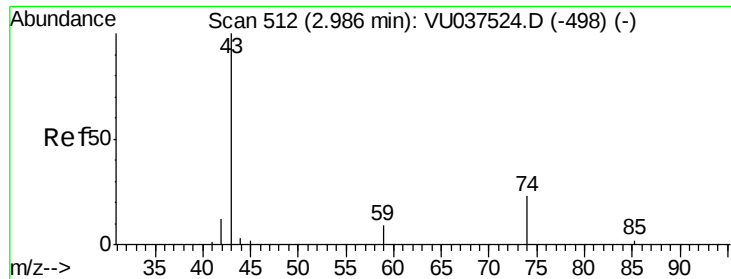
78 9.1 6.3 9.5



Abundance Ion 76.05 (75.75 to 76.75): VU037527.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037527.D (-367) (-)





#15

Methyl Acetate

Concen: 4.08 ug/L

RT: 2.99 min Scan# 513

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

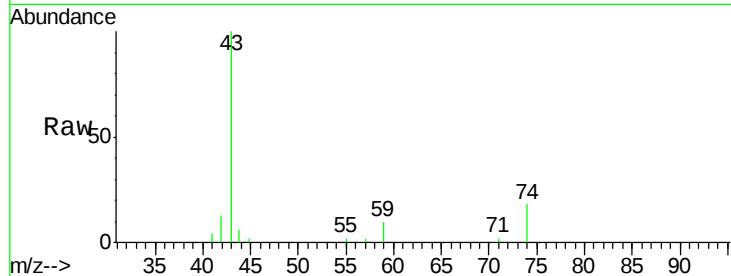
VICV03

Tgt Ion: 43 Resp: 14194

Ion Ratio Lower Upper

43 100

74 21.9 16.8 25.2

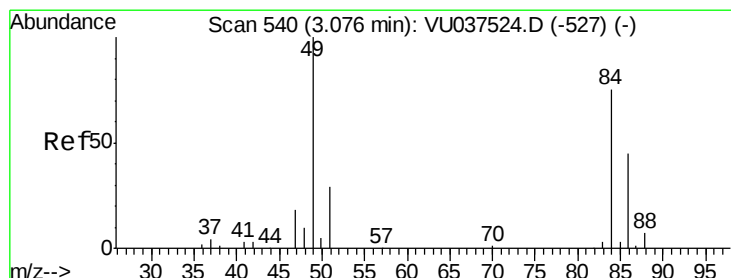
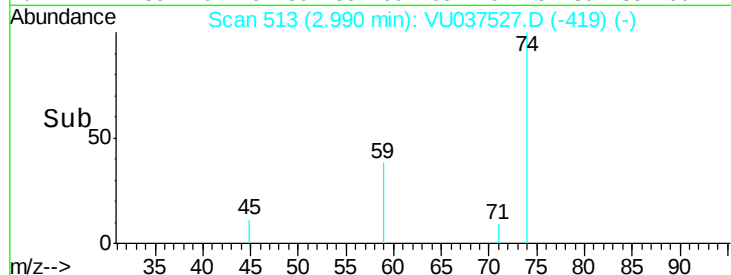


Abundance Ion 43.05 (42.75 to 43.75): VU037527.D (-419) (-)

Ion 74.05 (73.75 to 74.75): VU037527.D (-419) (-)

2.99

Time-->



#16

Methylene chloride

Concen: 4.35 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

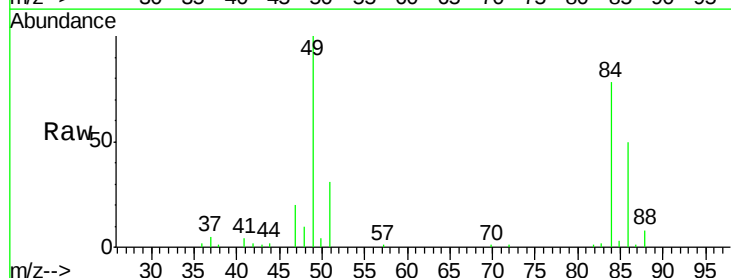
Tgt Ion: 84 Resp: 30950

Ion Ratio Lower Upper

84 100

86 63.9 41.6 77.3

49 133.6 97.0 180.2



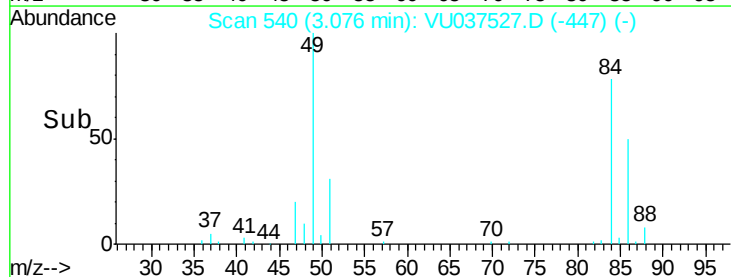
Abundance Ion 84.05 (83.75 to 84.75): VU037527.D (-447) (-)

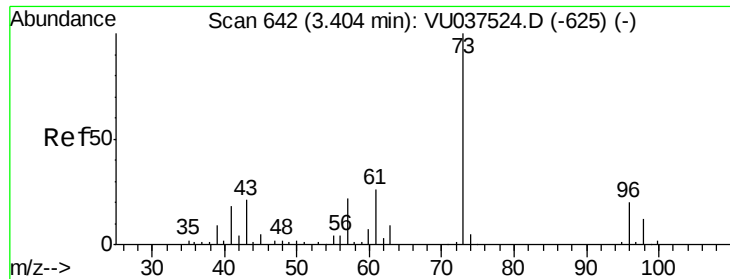
Ion 86.00 (85.70 to 86.70): VU037527.D (-447) (-)

Ion 49.10 (48.80 to 49.80): VU037527.D (-447) (-)

3.08

Time-->

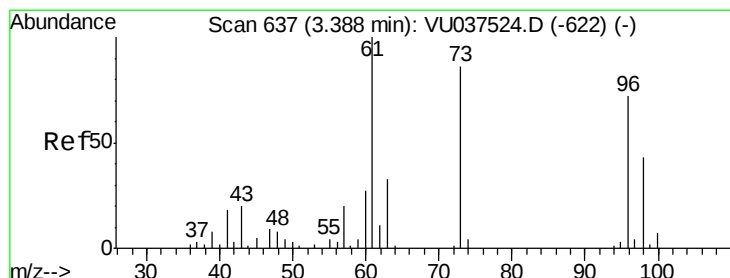
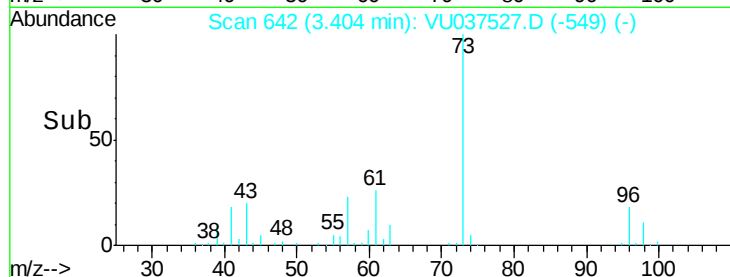
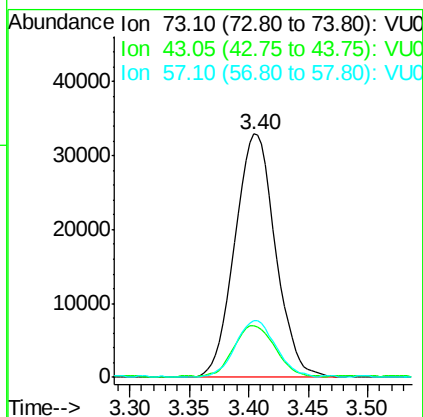
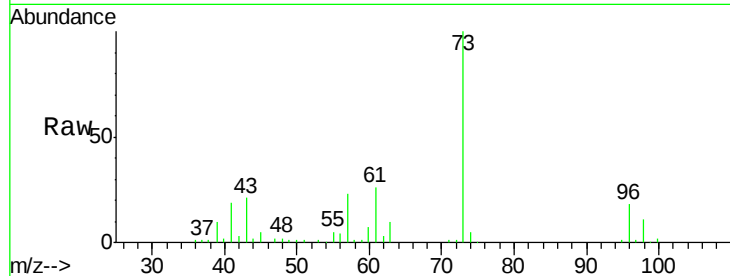




#17  
Methyl tert-butyl Ether  
Concen: 4.59 ug/L  
RT: 3.40 min Scan# 642  
Delta R.T. -0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

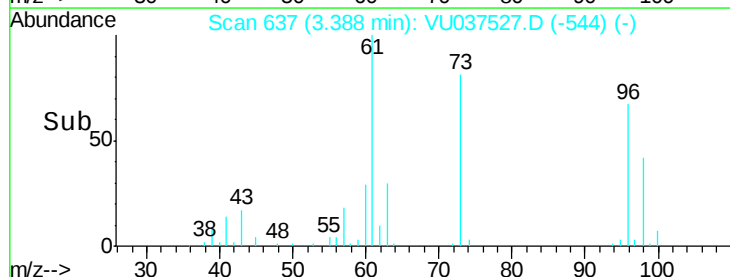
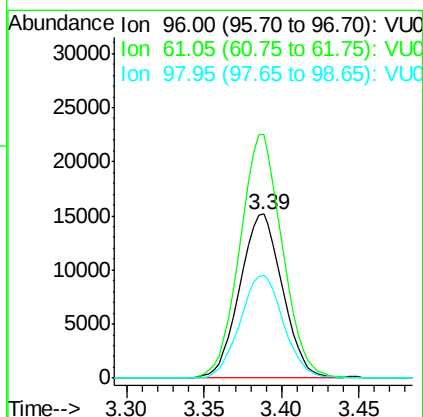
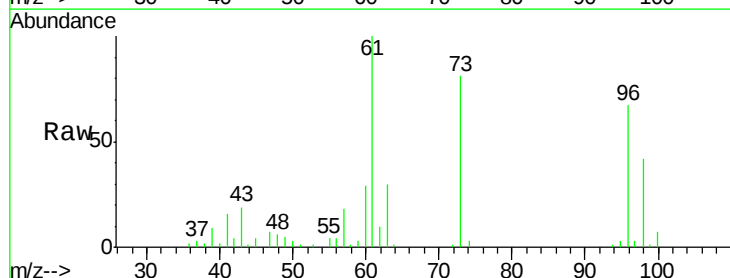
Instrument :  
MSVOA\_U  
ClientSampled :  
VICV03

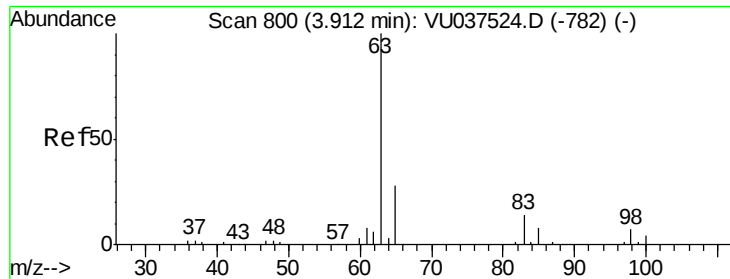
Tgt Ion: 73 Resp: 78153  
Ion Ratio Lower Upper  
73 100  
43 21.0 18.0 27.0  
57 23.3 19.0 28.6



#18  
trans-1,2-Dichloroethene  
Concen: 4.43 ug/L  
RT: 3.39 min Scan# 637  
Delta R.T. -0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

Tgt Ion: 96 Resp: 29160  
Ion Ratio Lower Upper  
96 100  
61 148.7 97.4 181.0  
98 63.0 42.4 78.6

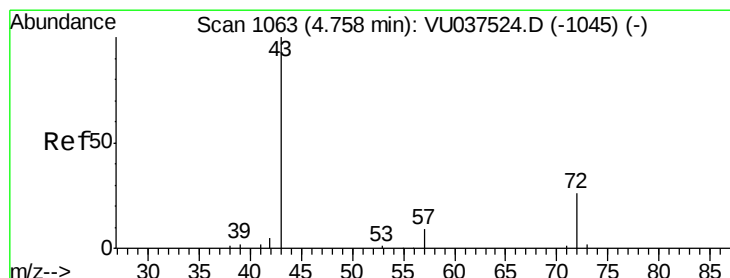
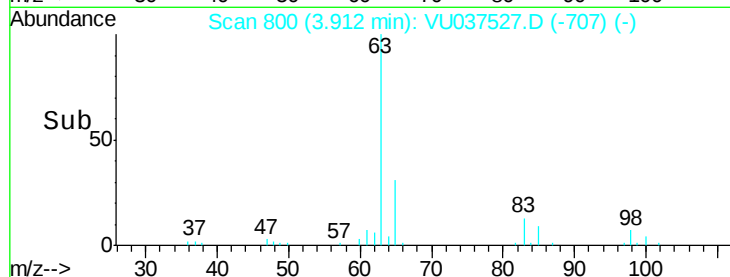
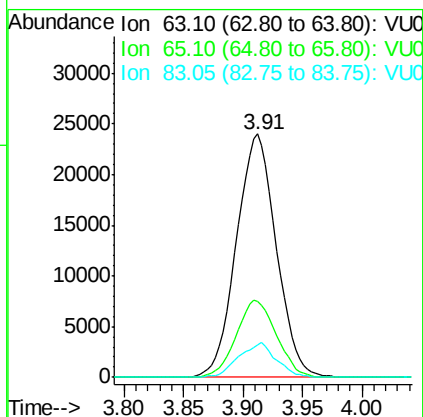
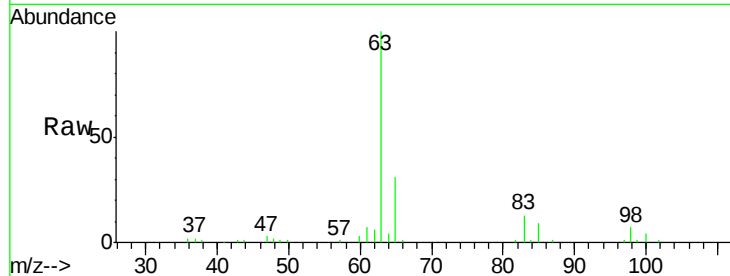




#19  
 1,1-Dichloroethane  
 Concen: 4.50 ug/L  
 RT: 3.91 min Scan# 800  
 Delta R.T. -0.00 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

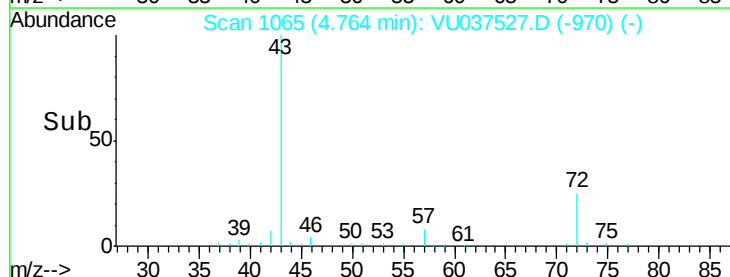
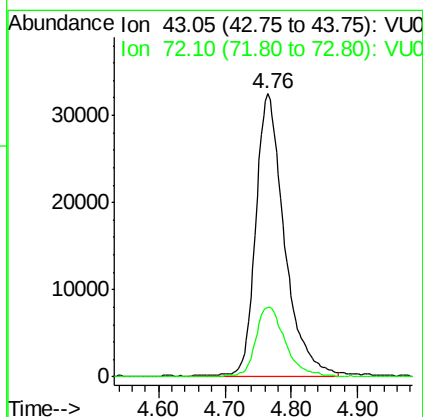
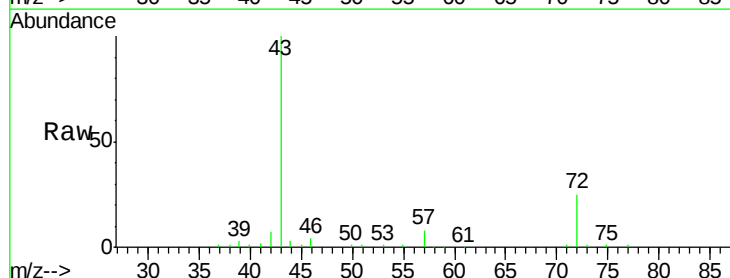
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV03

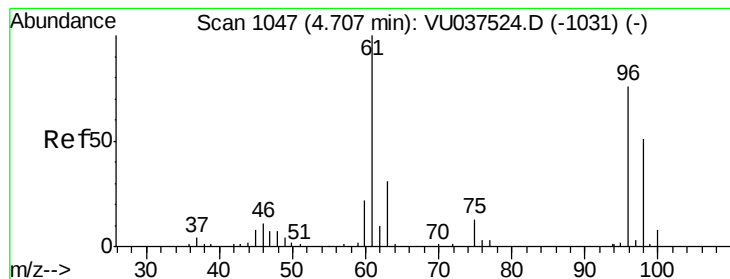
Tgt Ion: 63 Resp: 55630  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 19.9 36.9  
 83 13.4 10.1 18.7



#21  
 2-Butanone  
 Concen: 47.02 ug/L  
 RT: 4.76 min Scan# 1065  
 Delta R.T. 0.01 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

Tgt Ion: 43 Resp: 97079  
 Ion Ratio Lower Upper  
 43 100  
 72 25.7 13.1 39.1





#22

cis-1,2-Dichloroethene

Concen: 4.49 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampled :

VICV03

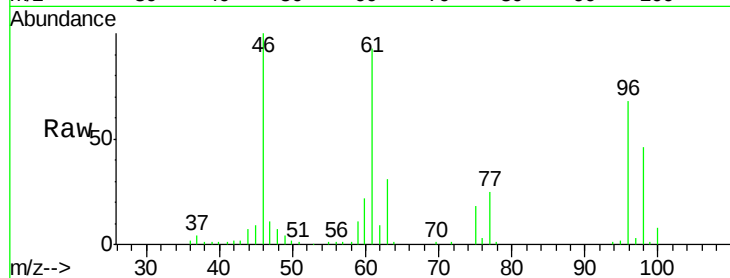
Tgt Ion: 96 Resp: 32259

Ion Ratio Lower Upper

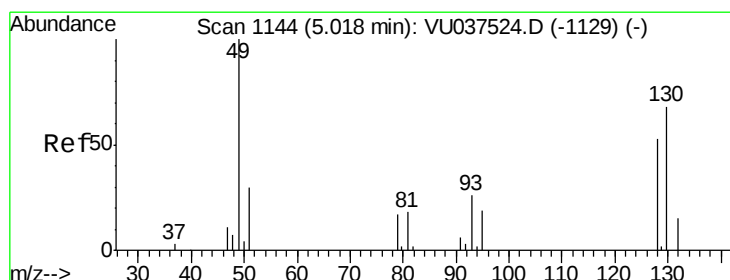
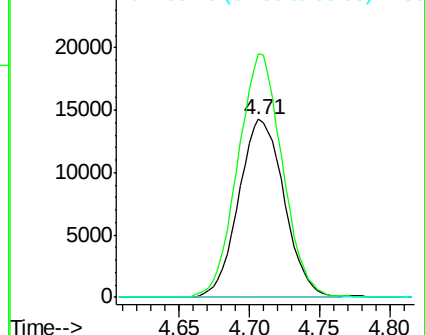
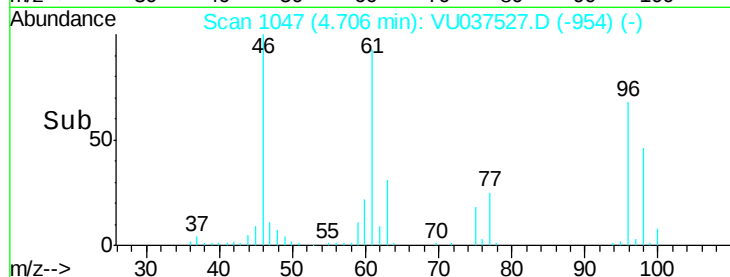
96 100

61 136.6 92.0 170.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037527.D (-954) (-)



#23

Bromochloromethane

Concen: 4.43 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Tgt Ion: 128 Resp: 13846

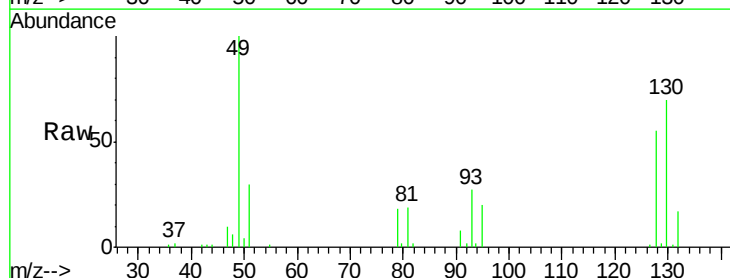
Ion Ratio Lower Upper

128 100

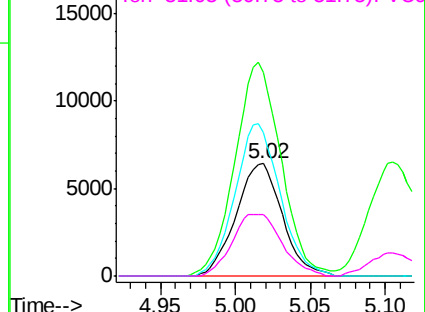
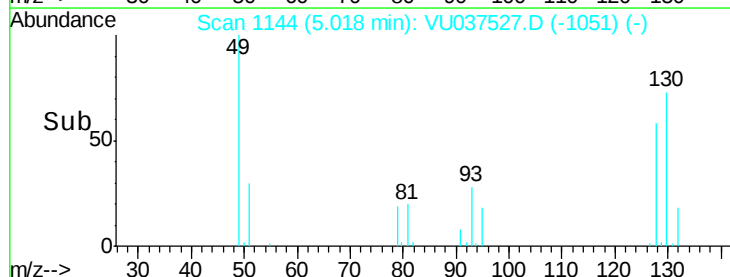
49 181.8 133.7 248.3

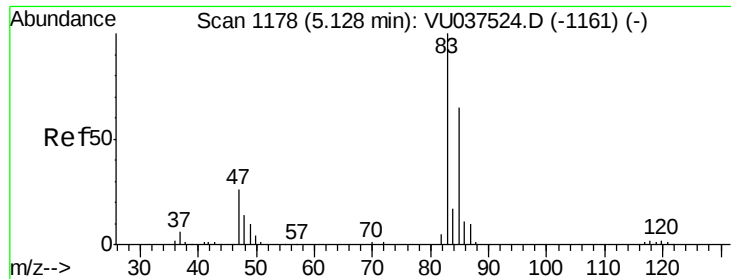
130 127.3 90.6 168.2

51 54.6 45.2 67.8



Abundance Ion 127.90 (127.60 to 128.60): VU037527.D (-1051) (-)

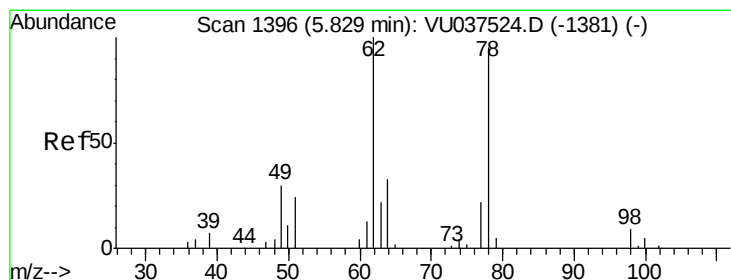
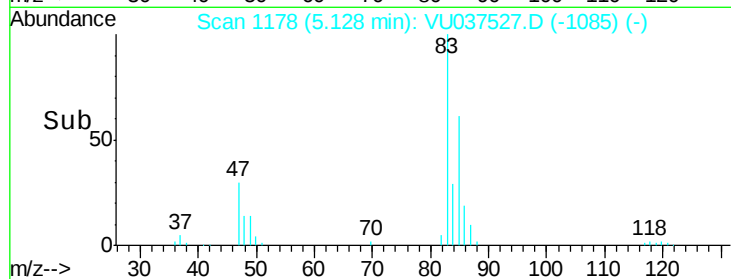
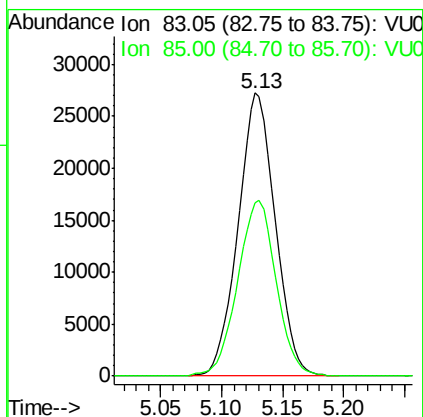
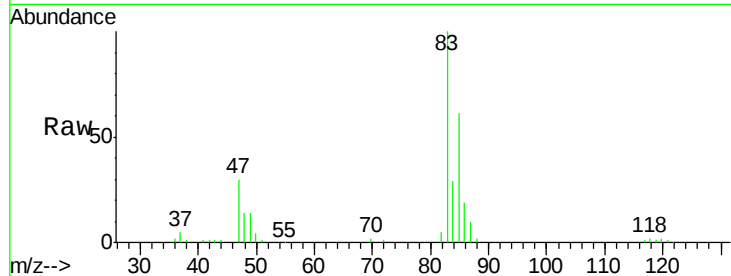




#25  
Chloroform  
Concen: 4.50 ug/L  
RT: 5.13 min Scan# 1178  
Delta R.T. -0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

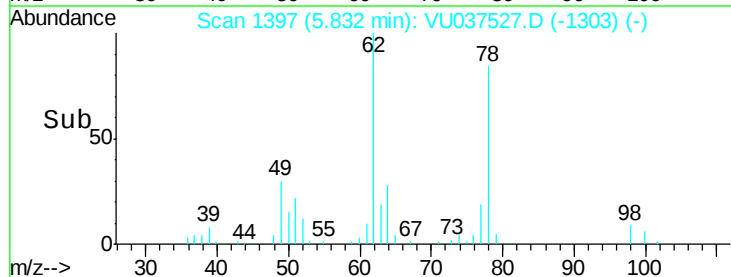
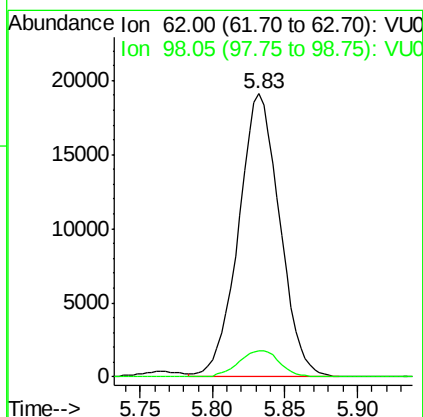
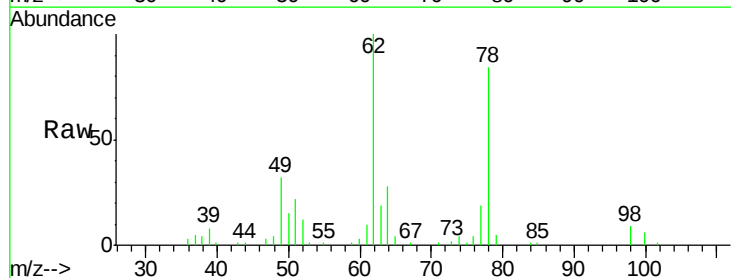
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV03

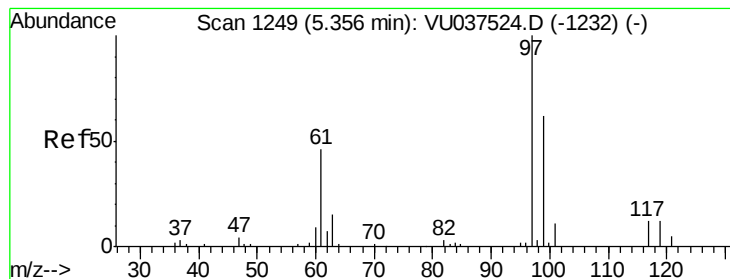
Tgt Ion: 83 Resp: 57229  
Ion Ratio Lower Upper  
83 100  
85 61.2 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 4.63 ug/L  
RT: 5.83 min Scan# 1397  
Delta R.T. 0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

Tgt Ion: 62 Resp: 37760  
Ion Ratio Lower Upper  
62 100  
98 9.3 7.3 10.9





#29

1,1,1-Trichloroethane

Concen: 4.47 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

VICV03

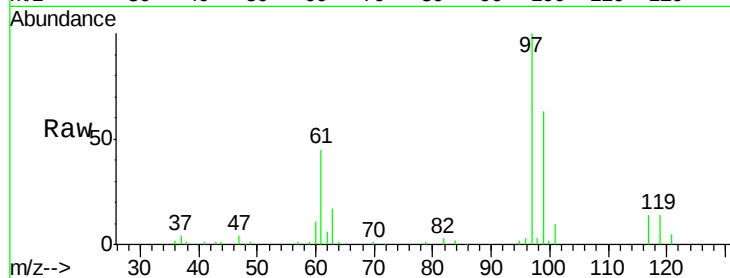
Tgt Ion: 97 Resp: 49382

Ion Ratio Lower Upper

97 100

99 62.9 50.6 76.0

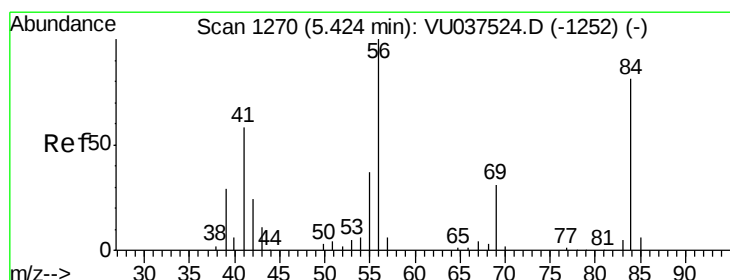
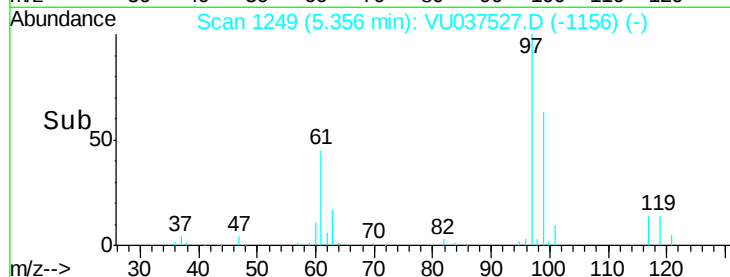
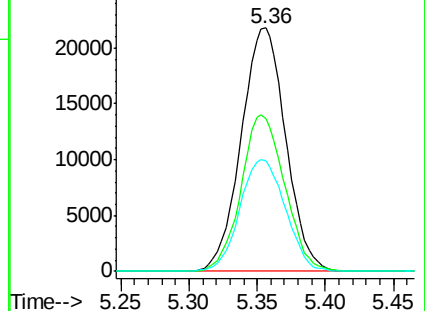
61 46.7 35.2 52.8



Abundance Ion 96.95 (96.65 to 97.65): VU037527.D (-1156) (-)

Ion 99.05 (98.75 to 99.75): VU037527.D (-1156) (-)

Ion 61.05 (60.75 to 61.75): VU037527.D (-1156) (-)



#30

Cyclohexane

Concen: 4.25 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

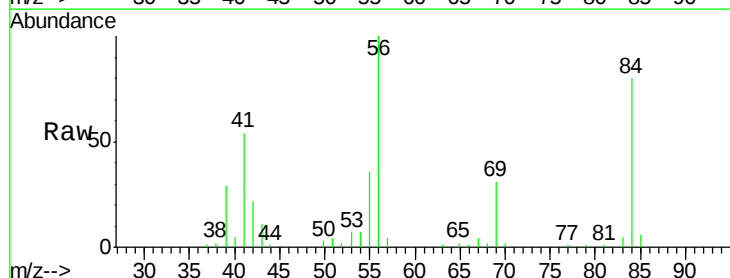
Tgt Ion: 56 Resp: 50996

Ion Ratio Lower Upper

56 100

69 31.9 23.9 35.9

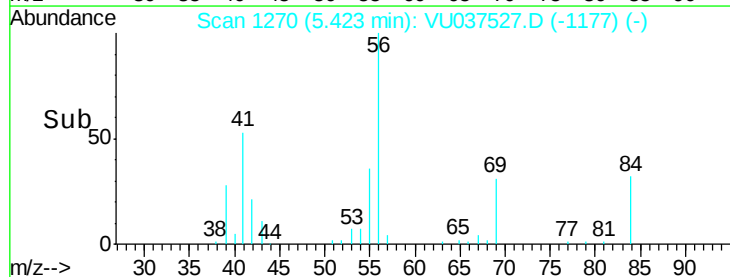
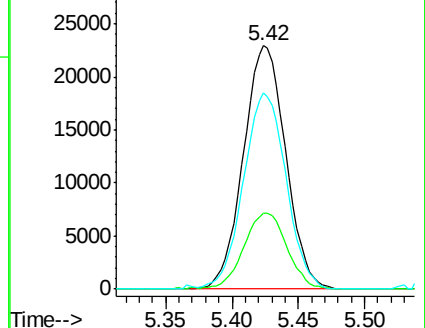
84 81.3 65.6 98.4

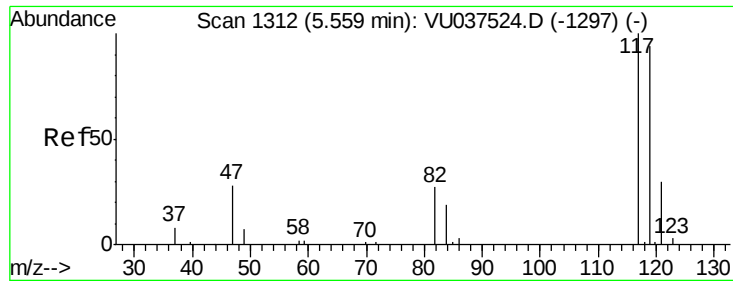


Abundance Ion 56.10 (55.80 to 56.80): VU037527.D (-1177) (-)

Ion 69.15 (68.85 to 69.85): VU037527.D (-1177) (-)

Ion 84.15 (83.85 to 84.85): VU037527.D (-1177) (-)





#31

Carbon tetrachloride

Concen: 4.45 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

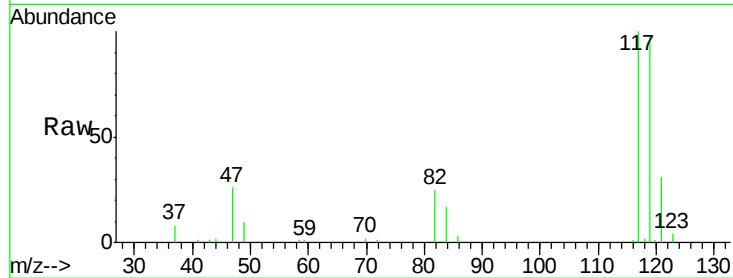
VICV03

Tgt Ion:117 Resp: 40001

Ion Ratio Lower Upper

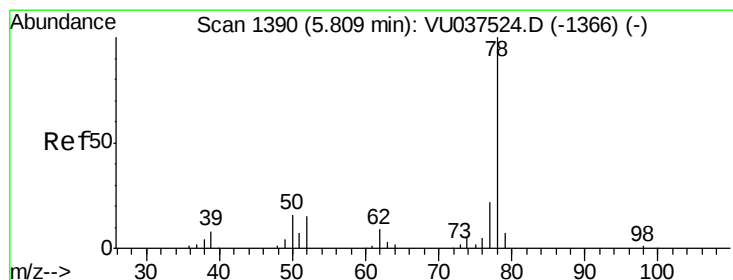
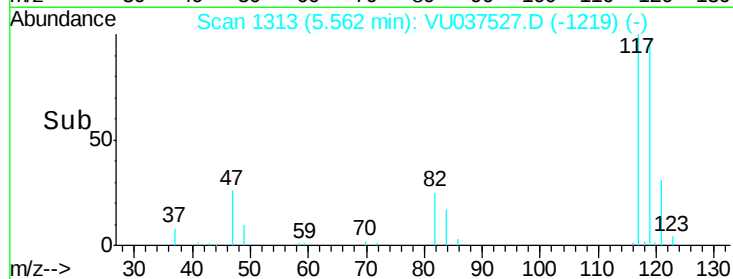
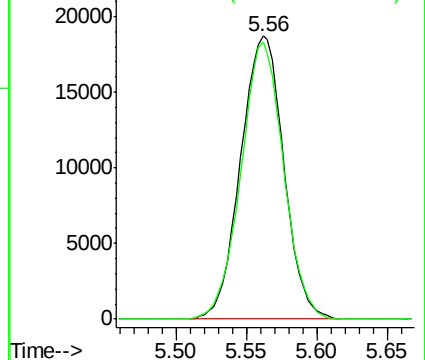
117 100

119 96.6 76.6 114.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.51 ug/L

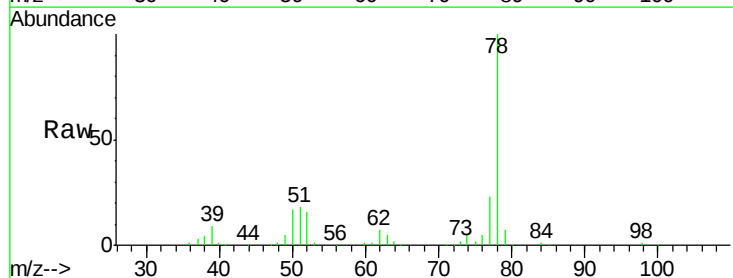
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

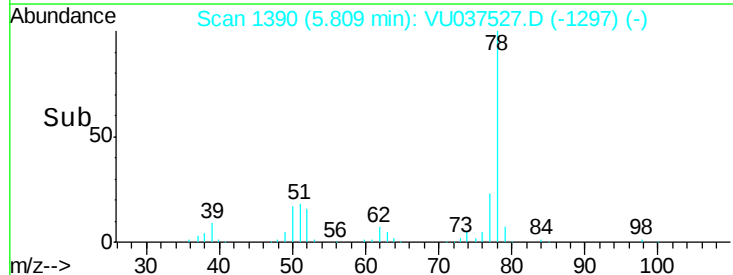
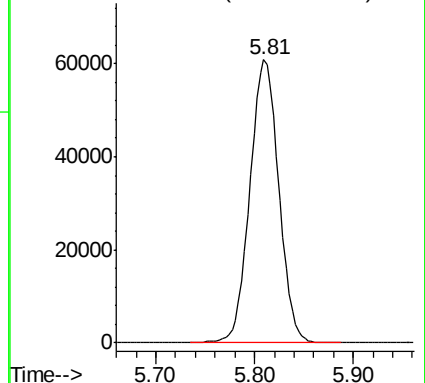
Lab File: VU037527.D

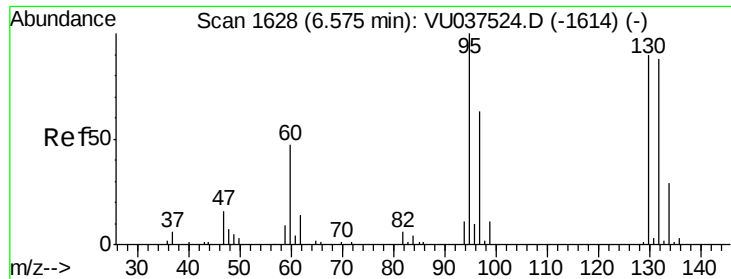
Acq: 01 Apr 2020 16:09

Tgt Ion: 78 Resp: 122915



Abundance Ion 78.10 (77.80 to 78.80): VU0

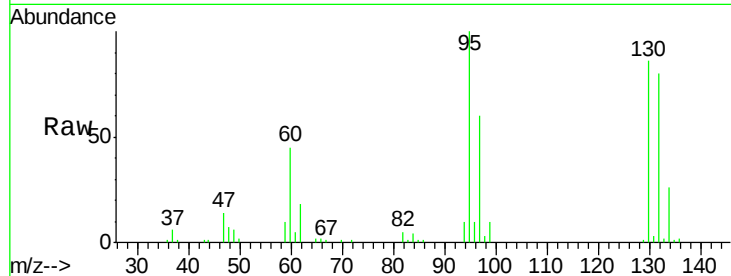




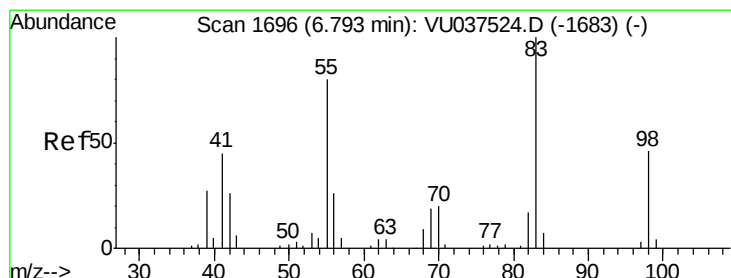
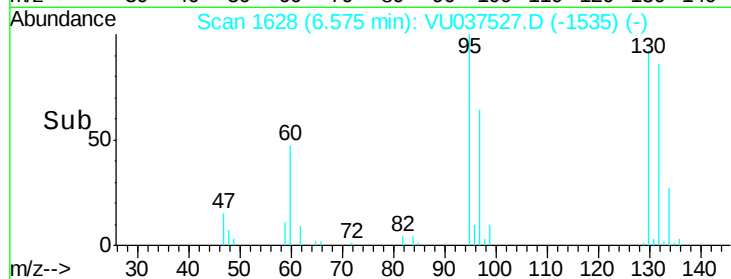
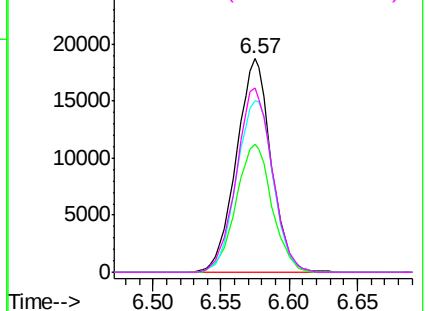
#34  
 Trichloroethene  
 Concen: 4.59 ug/L  
 RT: 6.57 min Scan# 1628  
 Delta R.T. -0.00 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV03

Tgt Ion: 95 Resp: 33007  
 Ion Ratio Lower Upper  
 95 100  
 97 59.7 44.0 81.8  
 132 80.4 61.9 114.9  
 130 86.1 62.7 116.5

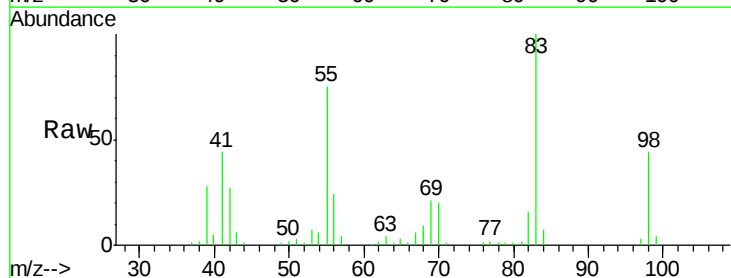


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

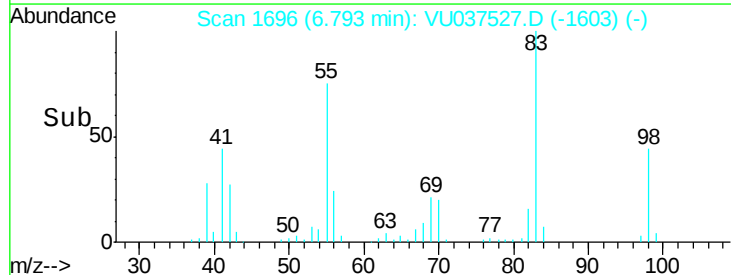
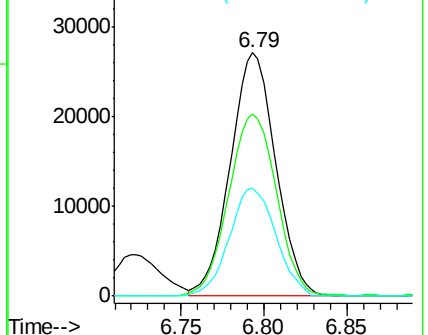


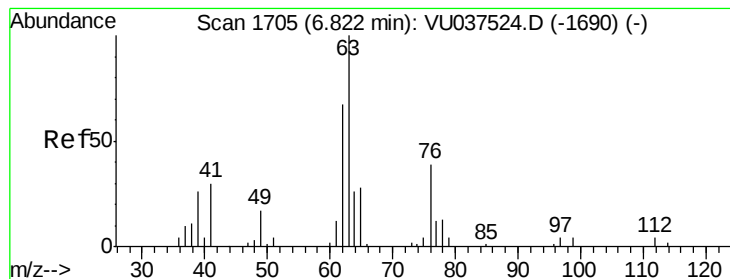
#35  
 Methylcyclohexane  
 Concen: 4.29 ug/L  
 RT: 6.79 min Scan# 1696  
 Delta R.T. -0.00 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

Tgt Ion: 83 Resp: 51679  
 Ion Ratio Lower Upper  
 83 100  
 55 79.2 63.0 94.6  
 98 45.4 35.3 52.9



Abundance Ion 83.15 (82.85 to 83.85): VU0  
 Ion 55.10 (54.80 to 55.80): VU0  
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.62 ug/L

RT: 6.83 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

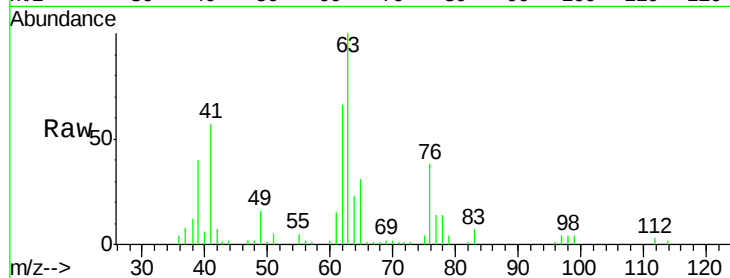
VICV03

Tgt Ion: 63 Resp: 33978

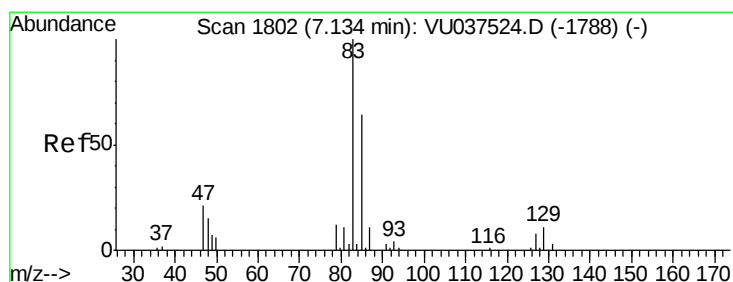
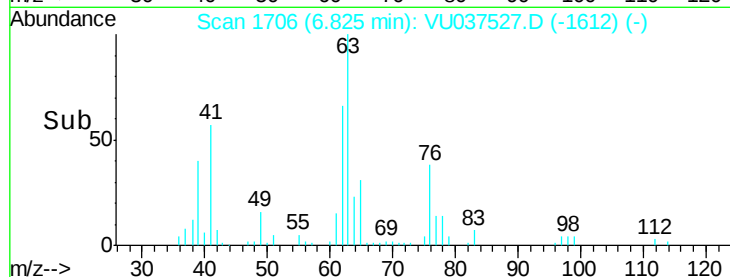
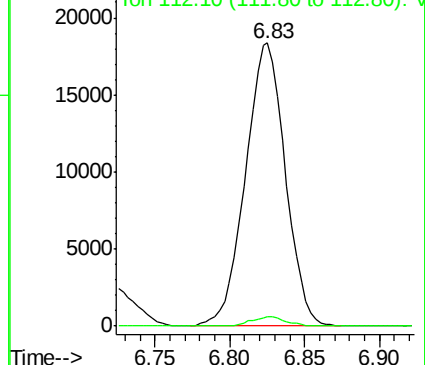
Ion Ratio Lower Upper

63 100

112 2.8 2.6 3.8



Abundance Ion 63.10 (62.80 to 63.80): VU037527.D (-1612) (-)



#38

Bromodichloromethane

Concen: 4.63 ug/L

RT: 7.14 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

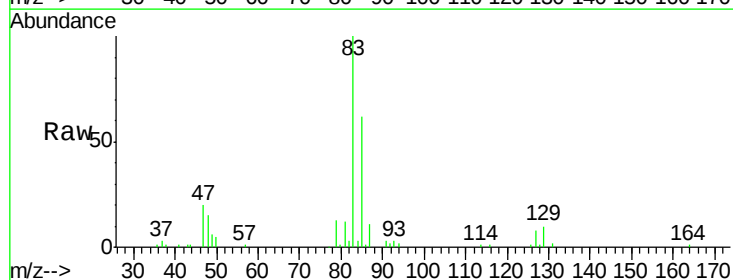
Tgt Ion: 83 Resp: 43418

Ion Ratio Lower Upper

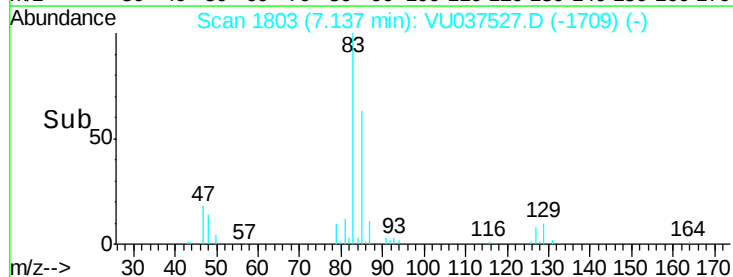
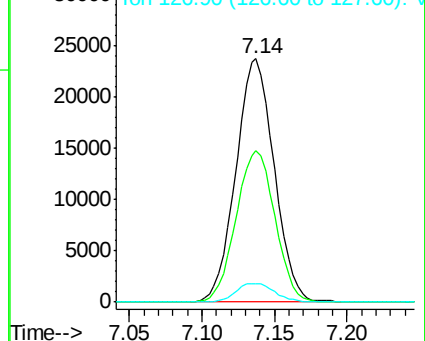
83 100

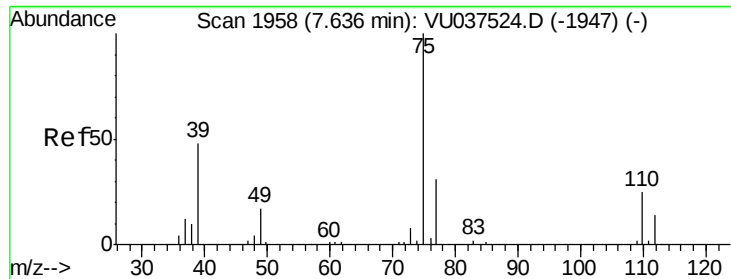
85 62.1 44.4 82.5

127 7.7 6.5 9.7



Abundance Ion 82.95 (82.65 to 83.65): VU037527.D (-1709) (-)

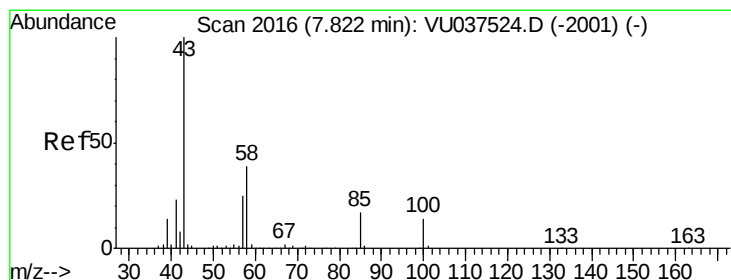
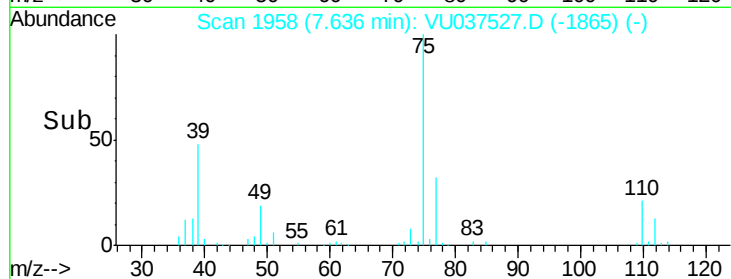
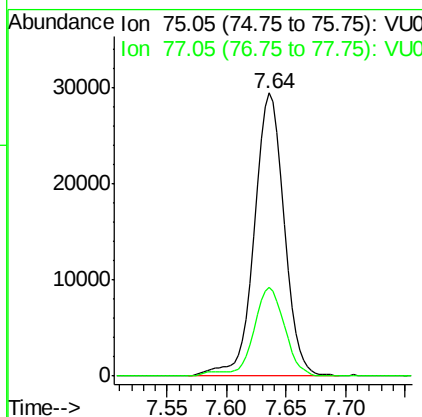
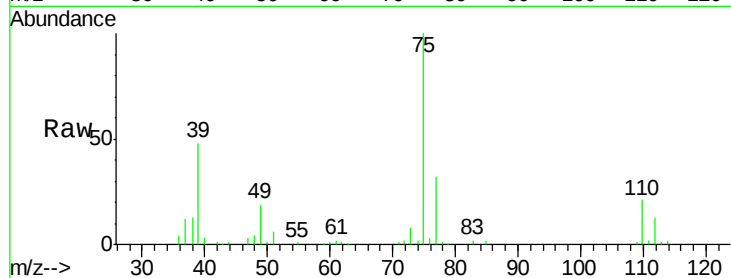




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.57 ug/L  
 RT: 7.64 min Scan# 1958  
 Delta R.T. -0.00 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

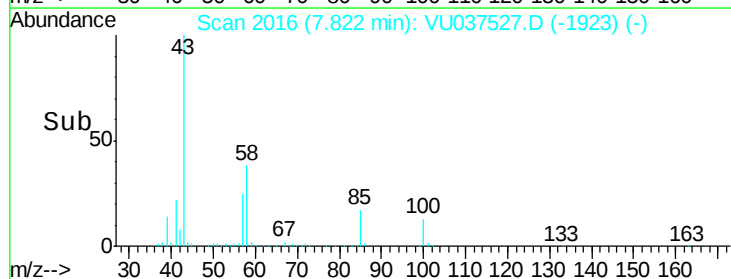
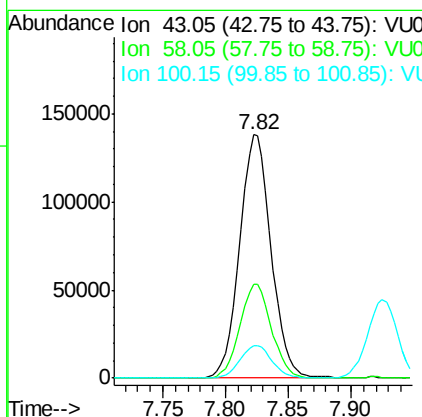
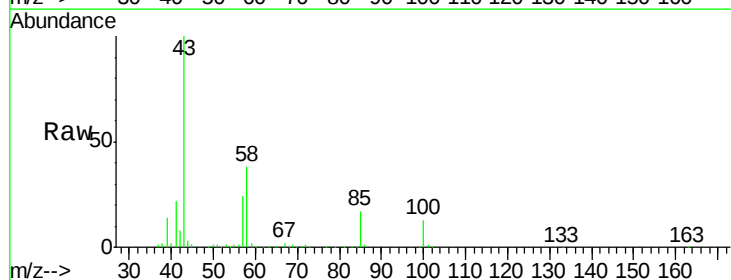
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VICV03

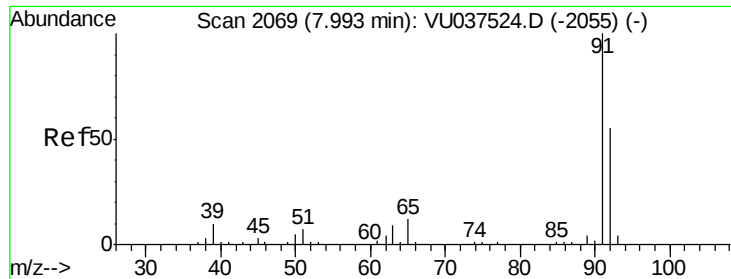
Tgt Ion: 75 Resp: 51452  
 Ion Ratio Lower Upper  
 75 100  
 77 31.5 22.2 41.2



#40  
 4-Methyl-2-pentanone  
 Concen: 47.06 ug/L  
 RT: 7.82 min Scan# 2016  
 Delta R.T. -0.00 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

Tgt Ion: 43 Resp: 241062  
 Ion Ratio Lower Upper  
 43 100  
 58 38.8 31.7 47.5  
 100 13.6 11.0 16.6





#42

Toluene

Concen: 4.51 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

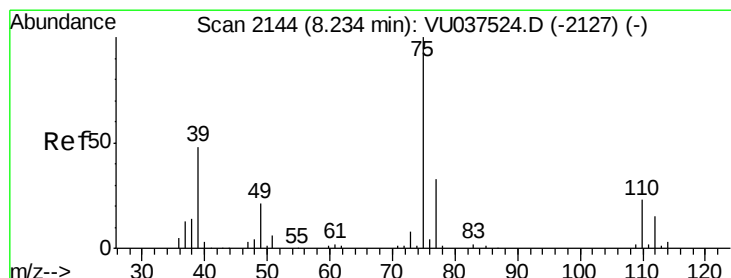
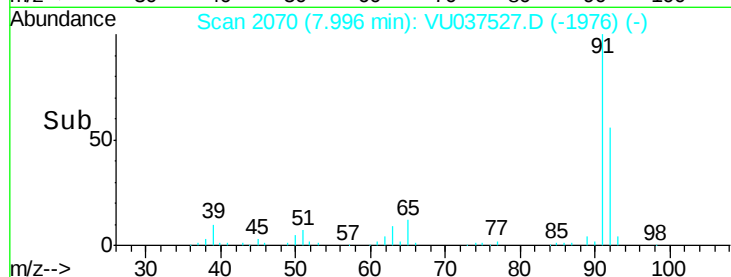
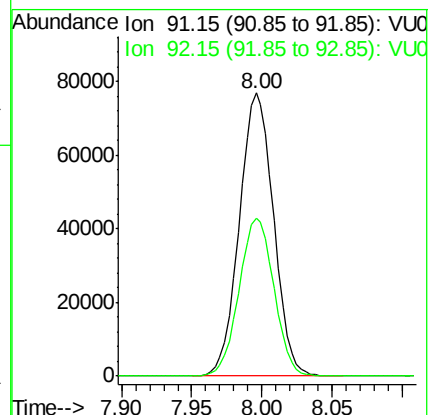
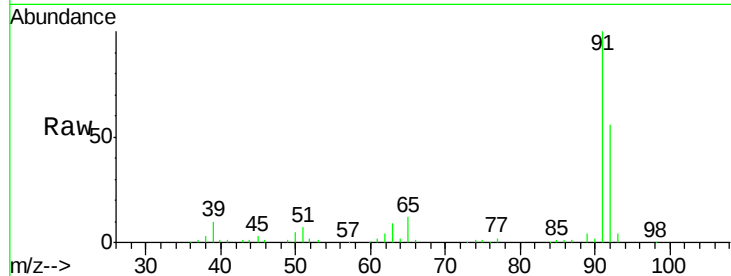
VICV03

Tgt Ion: 91 Resp: 130598

Ion Ratio Lower Upper

91 100

92 56.0 38.6 71.8



#44

trans-1,3-Dichloropropene

Concen: 4.59 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037527.D

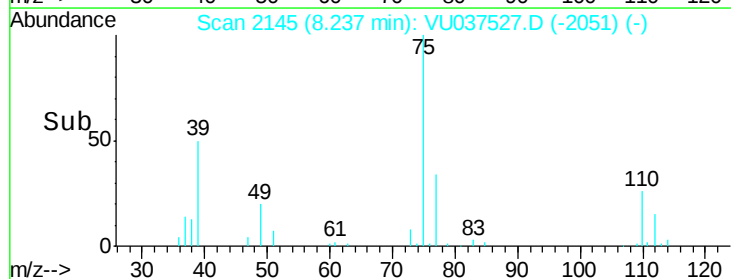
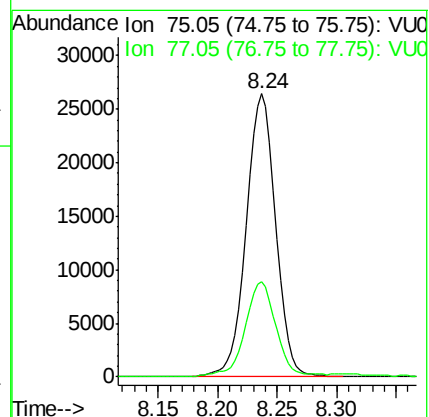
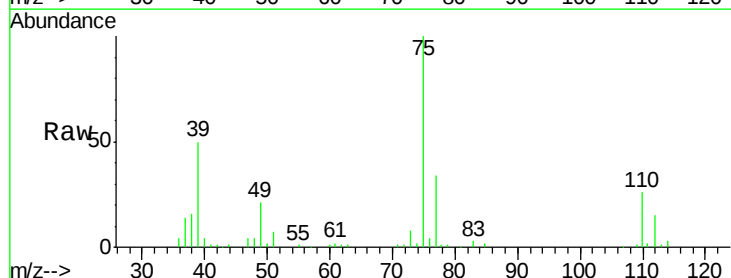
Acq: 01 Apr 2020 16:09

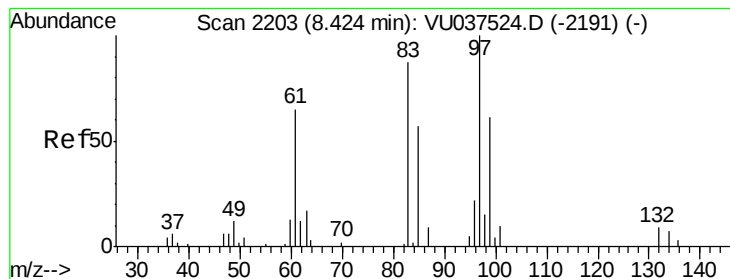
Tgt Ion: 75 Resp: 45331

Ion Ratio Lower Upper

75 100

77 33.6 22.9 42.5





#45

1,1,2-Trichloroethane

Concen: 4.42 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

VICV03

Tgt Ion: 97 Resp: 22711

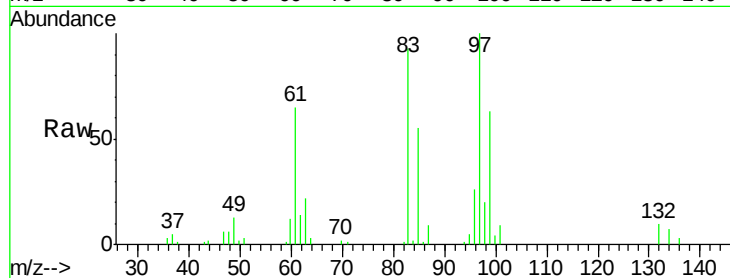
Ion Ratio Lower Upper

97 100

99 62.8 42.8 79.4

83 93.4 61.0 113.4

85 54.7 39.8 73.8

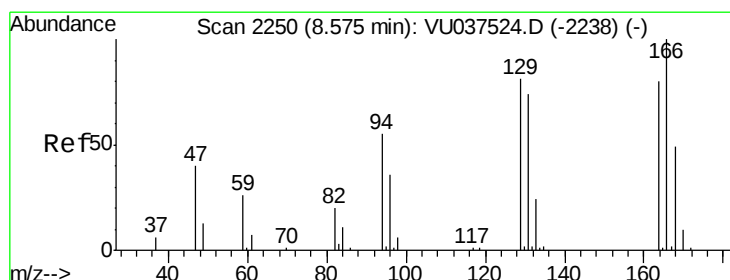
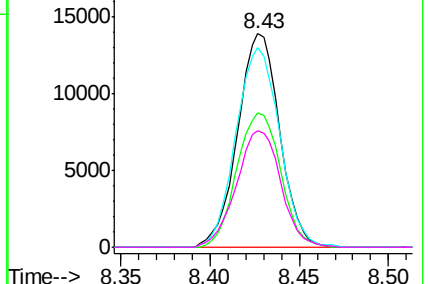
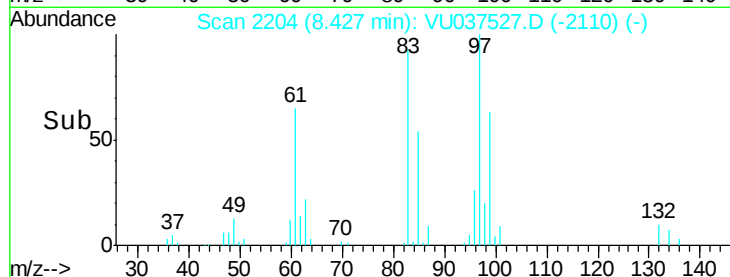


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.57 ug/L

RT: 8.58 min Scan# 2251

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Tgt Ion: 164 Resp: 21481

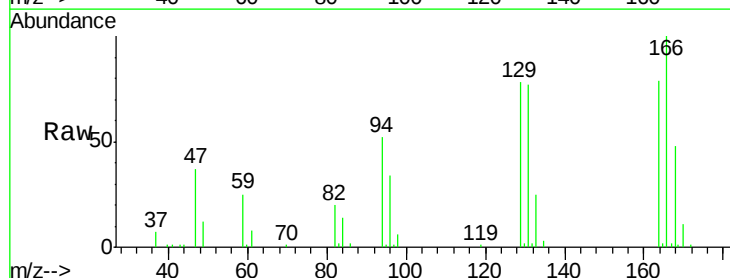
Ion Ratio Lower Upper

164 100

129 98.4 70.4 130.8

131 98.3 64.4 119.6

166 126.8 87.1 161.7

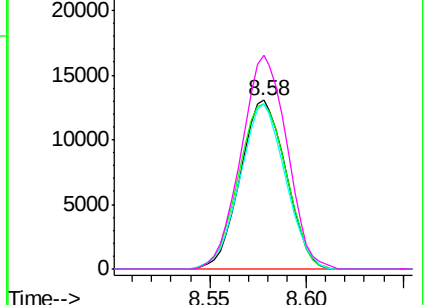
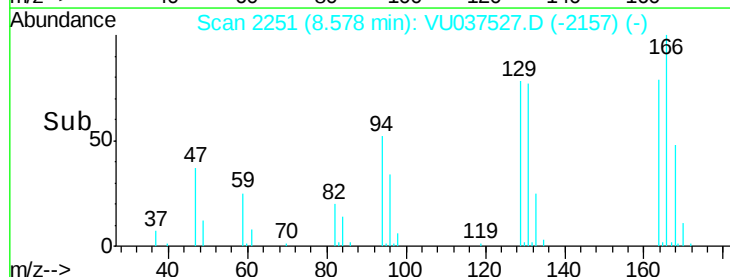


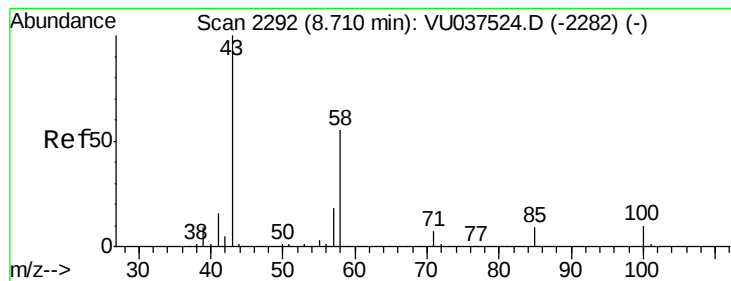
Abundance Ion 163.90 (163.60 to 164.60): V

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





#48

2-Hexanone

Concen: 46.41 ug/L

RT: 8.71 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampled :

VICV03

Tgt Ion: 43 Resp: 172165

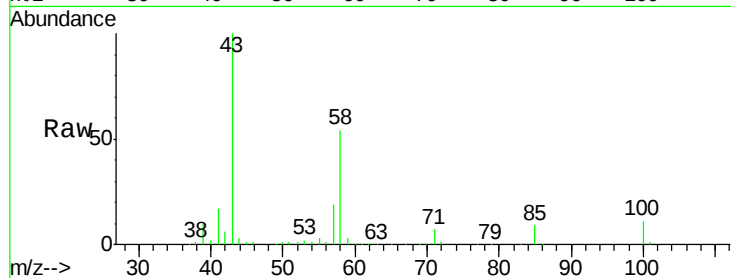
Ion Ratio Lower Upper

43 100

58 54.2 45.0 67.6

57 19.4 14.9 22.3

100 10.6 8.4 12.6

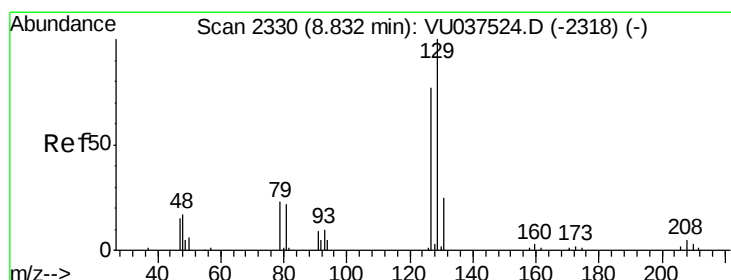
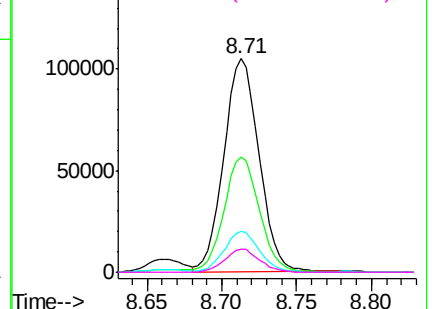
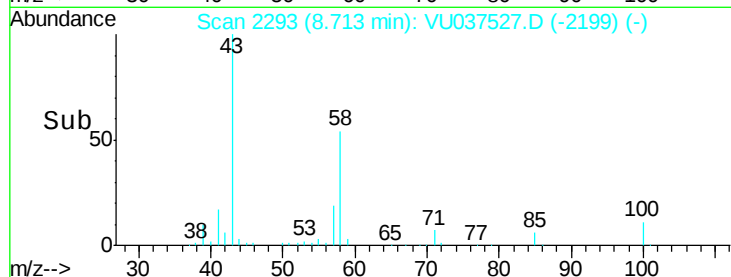


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0



#49

Dibromochloromethane

Concen: 4.59 ug/L

RT: 8.83 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU037527.D

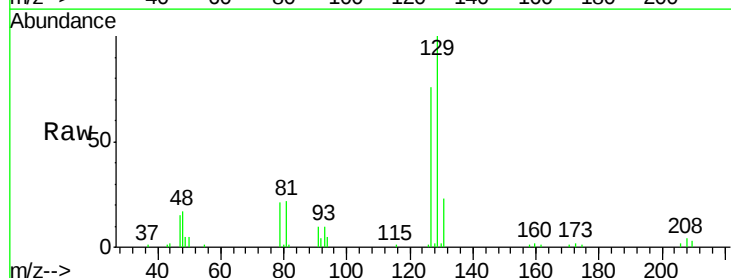
Acq: 01 Apr 2020 16:09

Tgt Ion: 129 Resp: 28095

Ion Ratio Lower Upper

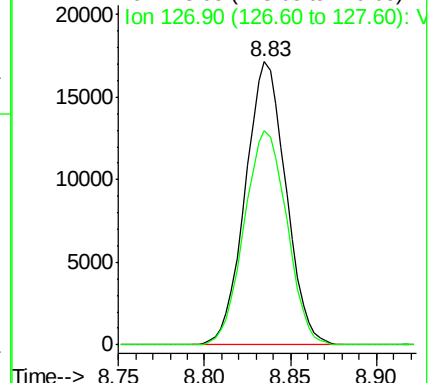
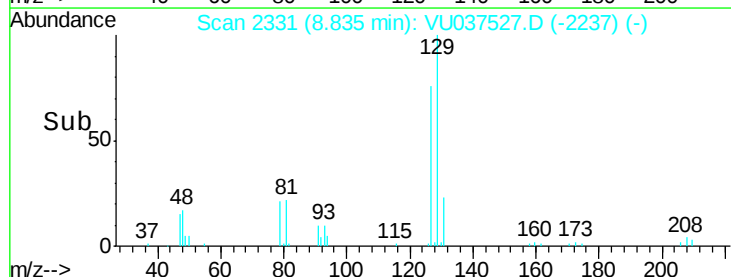
129 100

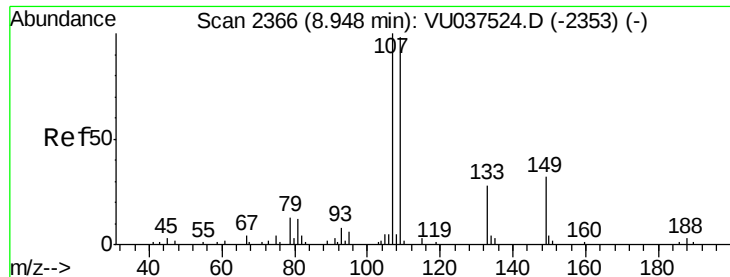
127 75.5 53.6 99.6



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

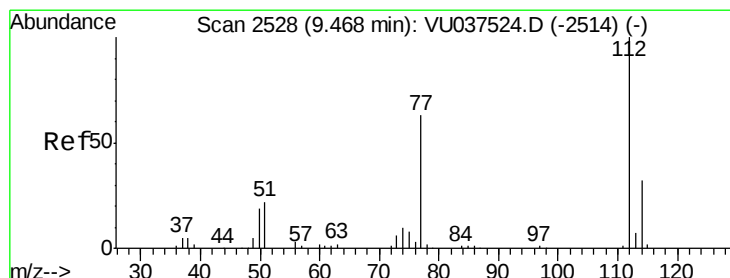
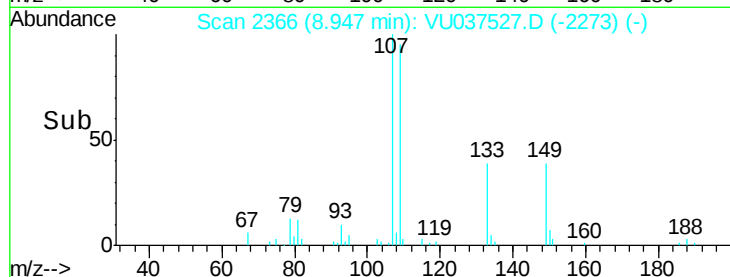
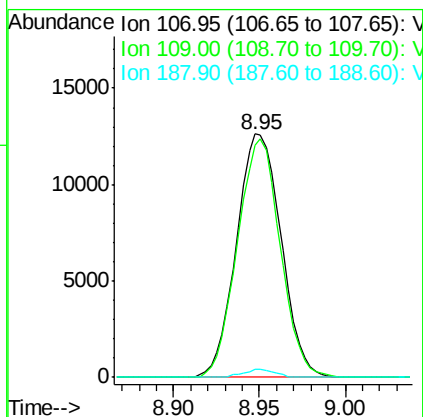
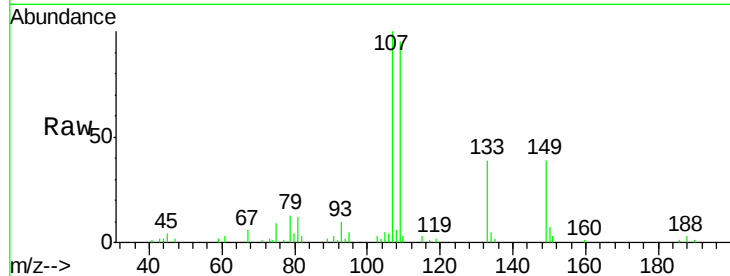




#50  
1,2-Dibromoethane  
Concen: 4.54 ug/L  
RT: 8.95 min Scan# 2366  
Delta R.T. -0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

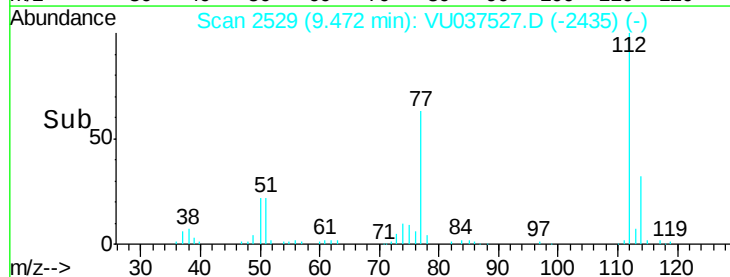
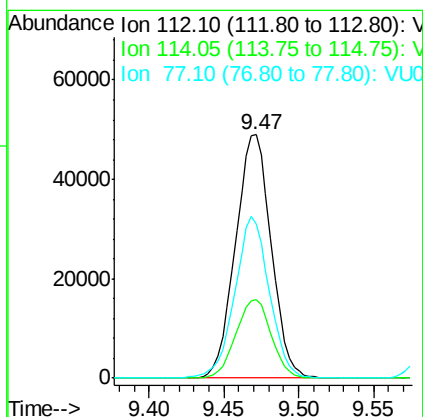
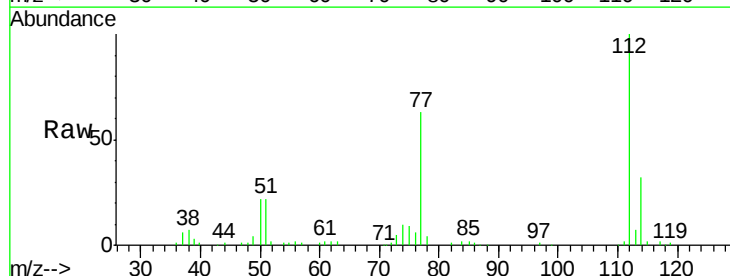
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV03

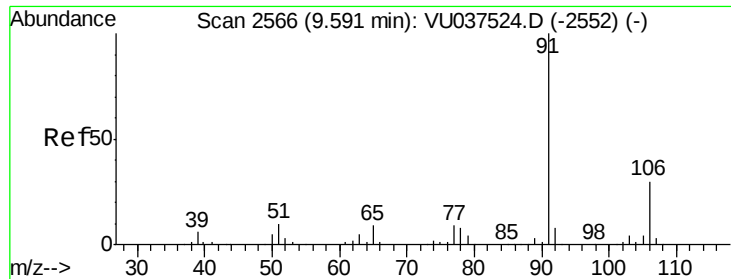
Tgt Ion:107 Resp: 22725  
Ion Ratio Lower Upper  
107 100  
109 95.2 68.9 127.9  
188 3.1 2.2 3.4



#51  
Chlorobenzene  
Concen: 4.56 ug/L  
RT: 9.47 min Scan# 2529  
Delta R.T. 0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

Tgt Ion:112 Resp: 81439  
Ion Ratio Lower Upper  
112 100  
114 32.5 22.4 41.6  
77 63.5 50.7 76.1





#52

Ethylbenzene

Concen: 4.49 ug/L

RT: 9.59 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

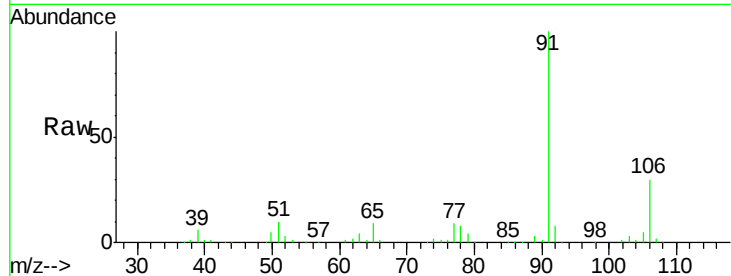
VICV03

Tgt Ion: 91 Resp: 148155

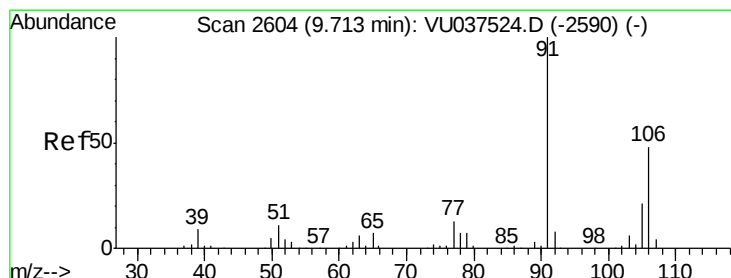
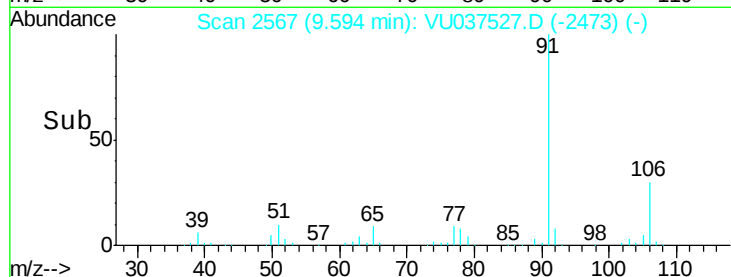
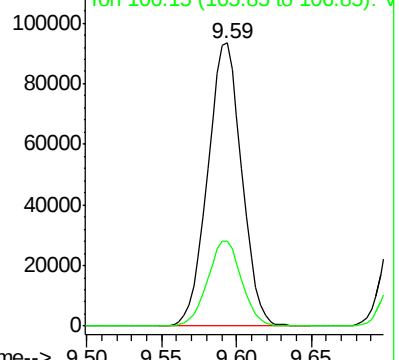
Ion Ratio Lower Upper

91 100

106 29.9 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VU037524.D (-2552) (-)



#53

m,p-Xylene

Concen: 4.39 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VU037527.D

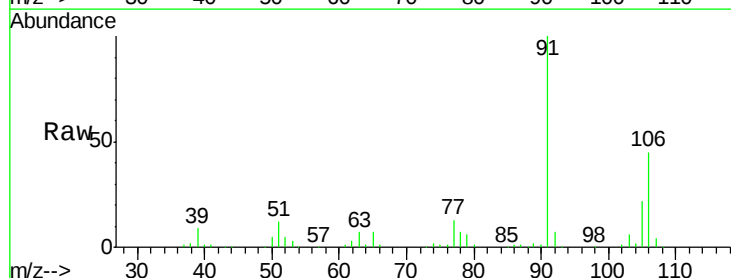
Acq: 01 Apr 2020 16:09

Tgt Ion: 106 Resp: 54459

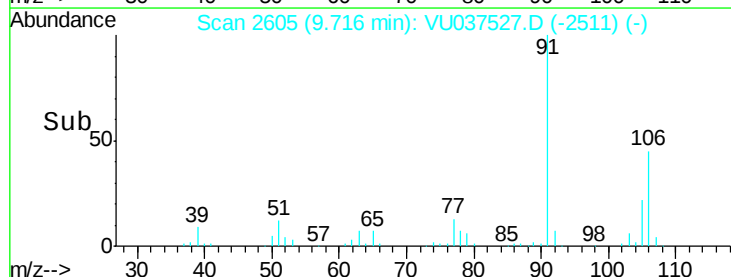
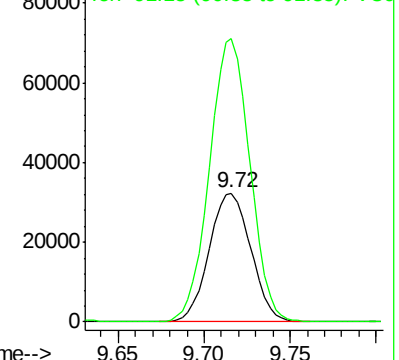
Ion Ratio Lower Upper

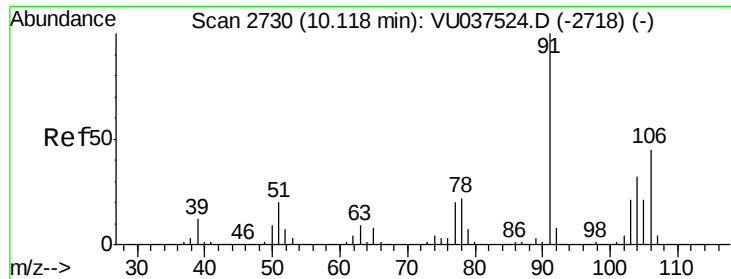
106 100

91 220.0 147.4 273.8



Abundance Ion 106.15 (105.85 to 106.85): VU037527.D (-2511) (-)

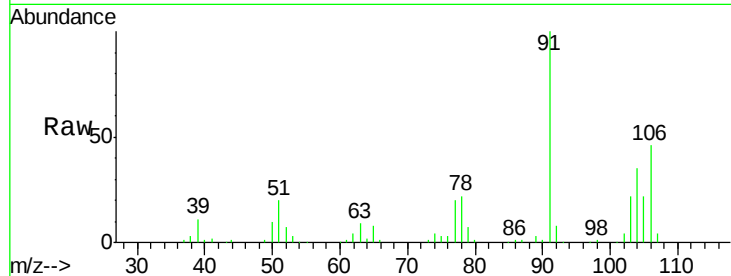




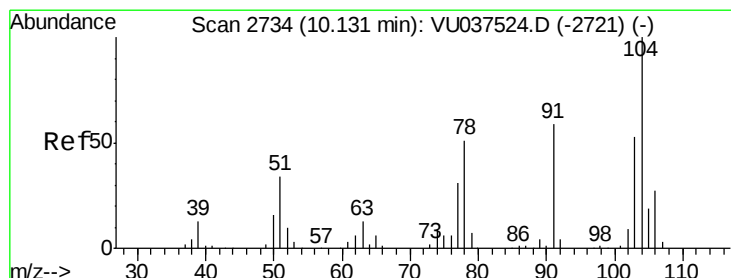
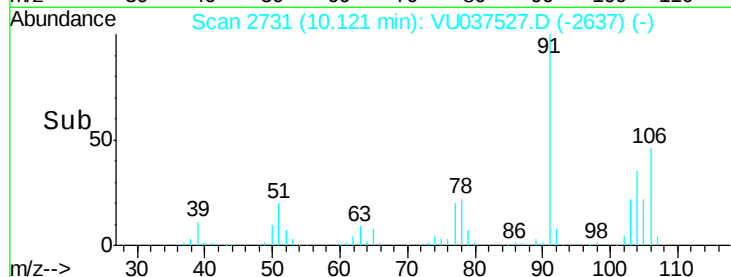
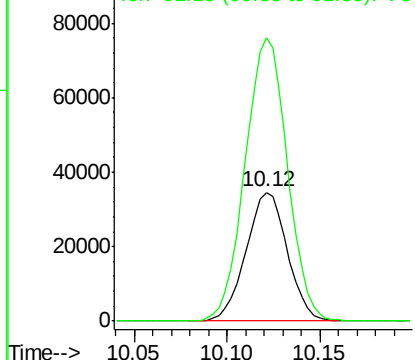
#54  
o-Xylene  
Concen: 4.48 ug/L  
RT: 10.12 min Scan# 2731  
Delta R.T. 0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

Instrument :  
MSVOA\_U  
ClientSampled :  
VICV03

Tgt Ion:106 Resp: 53482  
Ion Ratio Lower Upper  
106 100  
91 219.7 156.8 291.2

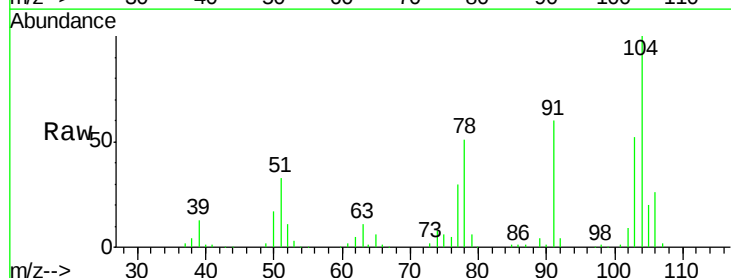


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

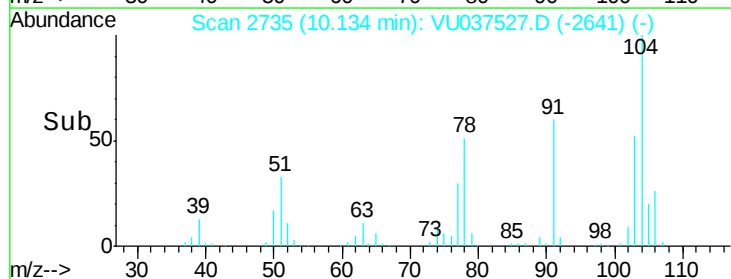
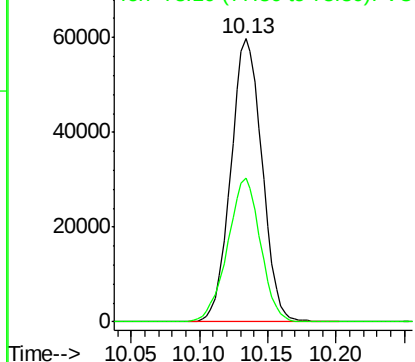


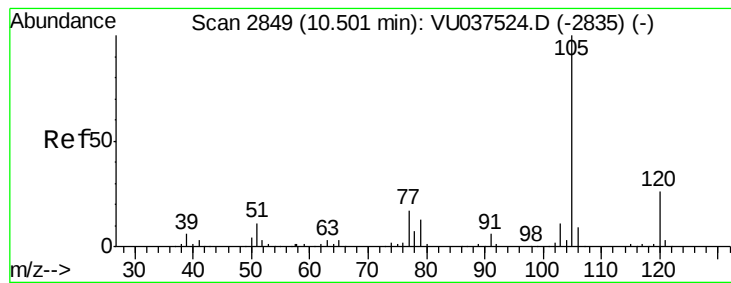
#55  
Styrene  
Concen: 4.61 ug/L  
RT: 10.13 min Scan# 2735  
Delta R.T. 0.00 min  
Lab File: VU037527.D  
Acq: 01 Apr 2020 16:09

Tgt Ion:104 Resp: 95083  
Ion Ratio Lower Upper  
104 100  
78 50.8 36.1 67.1



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.42 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

VICV03

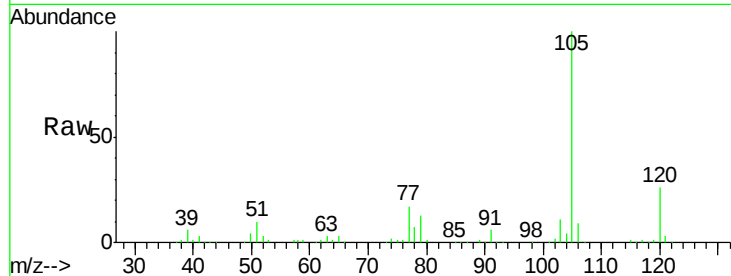
Tgt Ion: 105 Resp: 143783

Ion Ratio Lower Upper

105 100

120 25.9 20.6 31.0

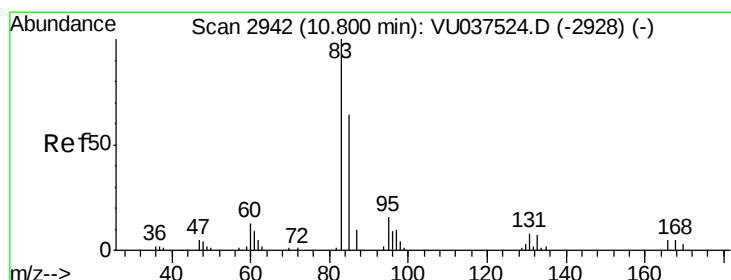
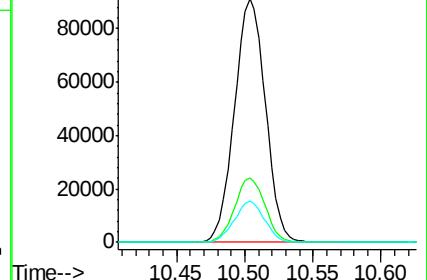
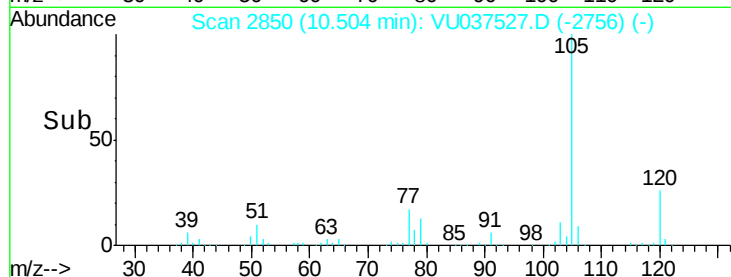
77 16.4 13.5 20.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.54 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

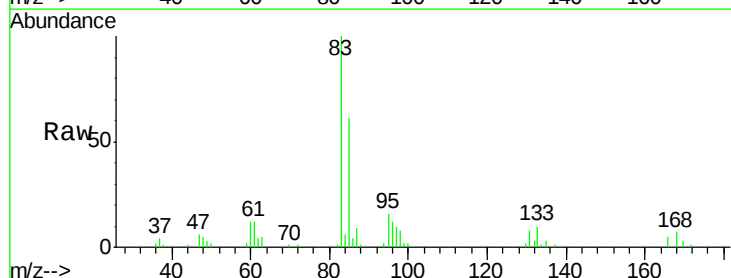
Tgt Ion: 83 Resp: 31427

Ion Ratio Lower Upper

83 100

85 60.5 45.2 84.0

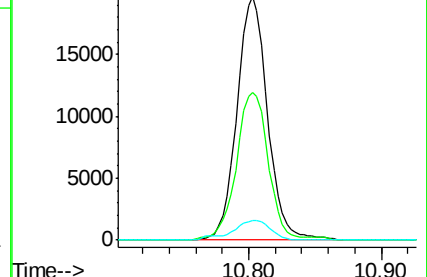
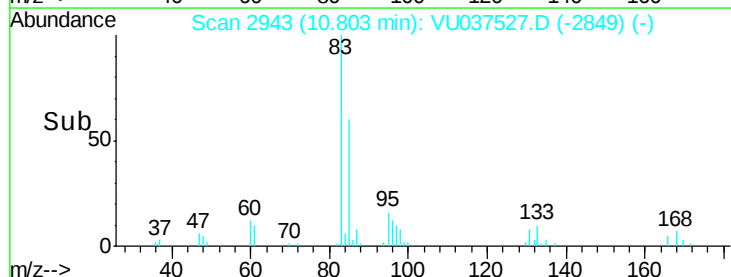
131 7.9 6.6 9.8

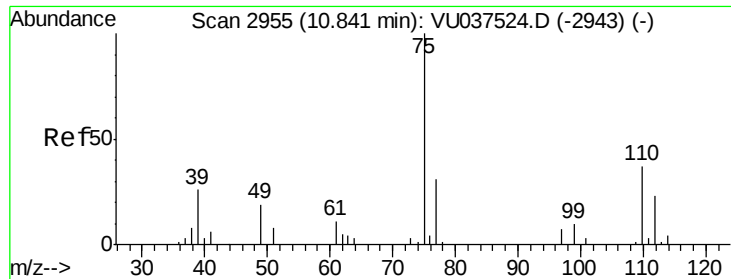


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.64 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

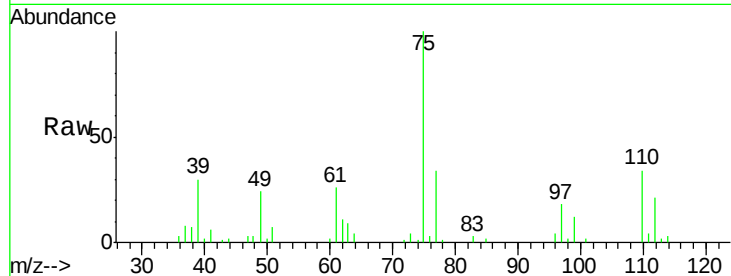
VICV03

Tgt Ion: 75 Resp: 22392

Ion Ratio Lower Upper

75 100

77 34.3 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU037527.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU037527.D (-2943) (-)

10.84

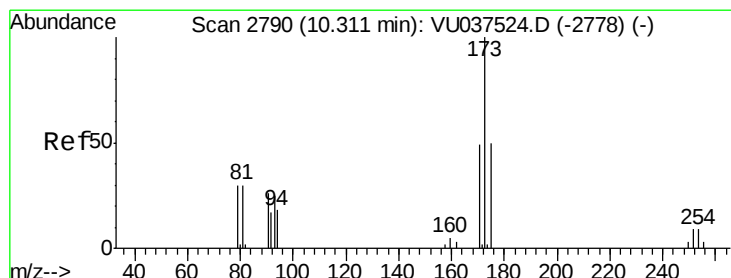
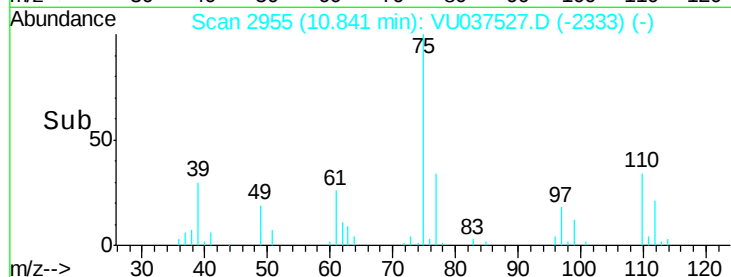
15000

10000

5000

0

Time-->



#61

Bromoform

Concen: 4.69 ug/L

RT: 10.31 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

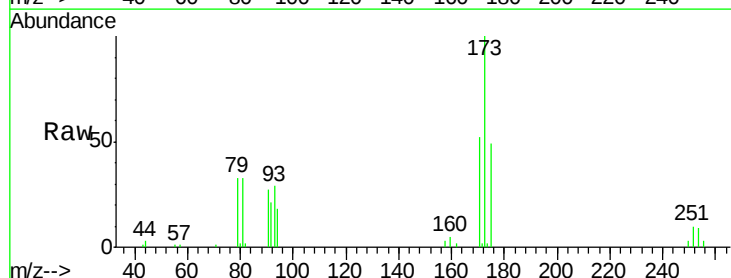
Tgt Ion: 173 Resp: 16096

Ion Ratio Lower Upper

173 100

175 49.2 37.2 55.8

254 8.8 7.7 11.5



Abundance Ion 172.90 (172.60 to 173.60): VU037527.D (-2697) (-)

Ion 174.90 (174.60 to 175.60): VU037527.D (-2697) (-)

Ion 253.75 (253.45 to 254.45): VU037527.D (-2697) (-)

10.31

12000

10000

8000

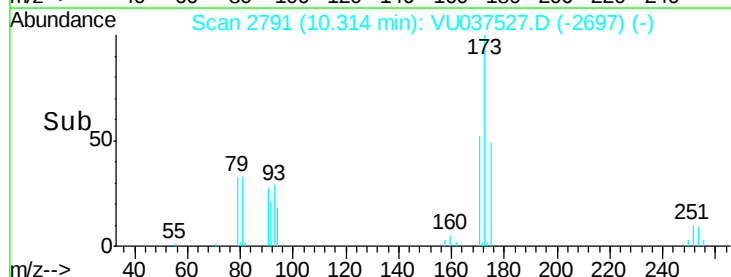
6000

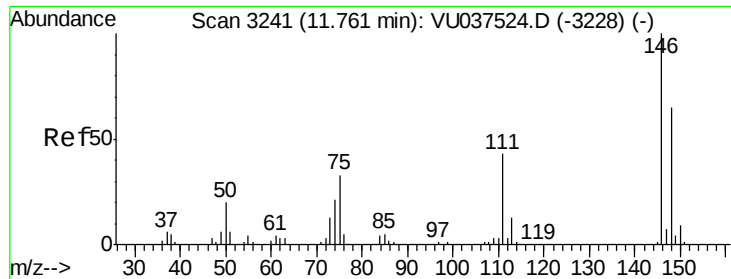
4000

2000

0

Time-->

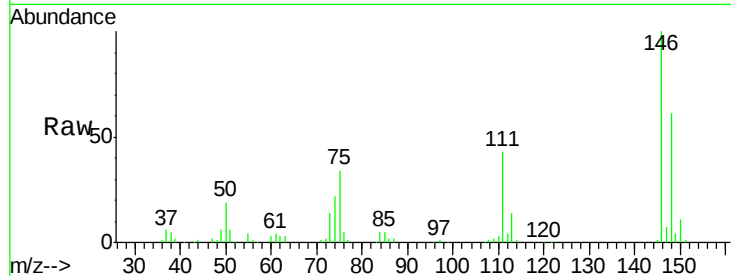




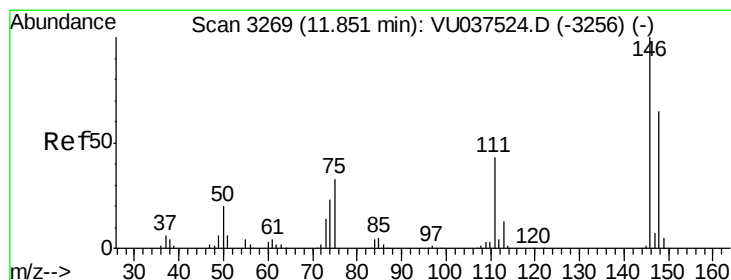
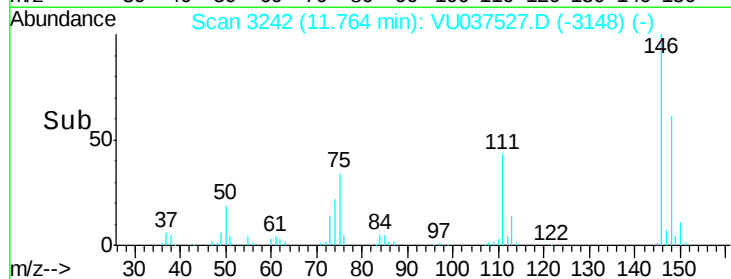
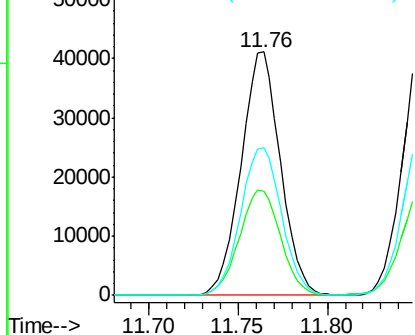
#62  
 1,3-Dichlorobenzene  
 Concen: 4.62 ug/L  
 RT: 11.76 min Scan# 3242  
 Delta R.T. 0.00 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV03

Tgt Ion:146 Resp: 63673  
 Ion Ratio Lower Upper  
 146 100  
 111 42.8 29.8 55.4  
 148 60.6 45.2 84.0

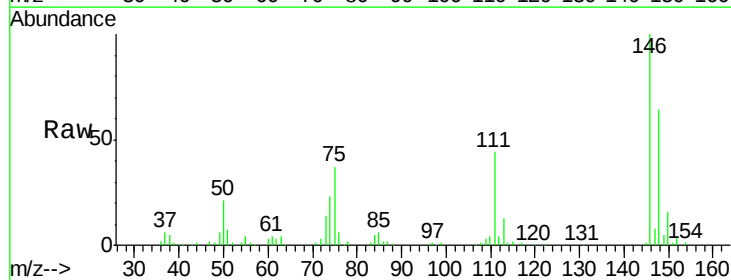


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

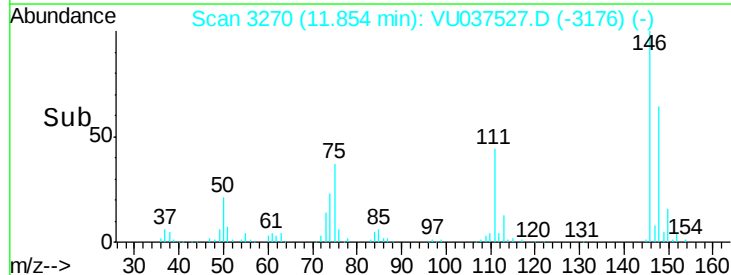
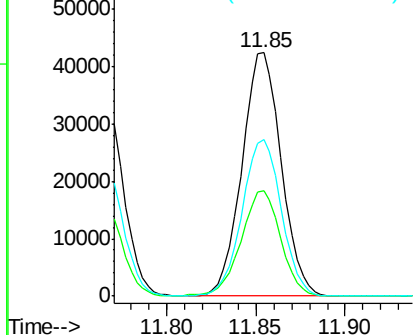


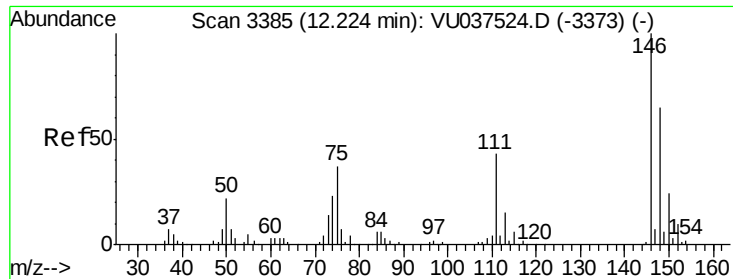
#63  
 1,4-Dichlorobenzene  
 Concen: 4.66 ug/L  
 RT: 11.85 min Scan# 3270  
 Delta R.T. 0.00 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

Tgt Ion:146 Resp: 65227  
 Ion Ratio Lower Upper  
 146 100  
 111 43.5 29.9 55.5  
 148 64.3 45.6 84.8



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





#65

1,2-Dichlorobenzene

Concen: 4.68 ug/L

RT: 12.23 min Scan# 3387

Delta R.T. 0.01 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

VICV03

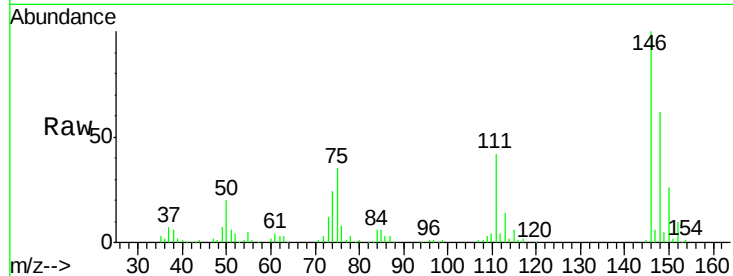
Tgt Ion:146 Resp: 61718

Ion Ratio Lower Upper

146 100

111 42.0 34.2 51.4

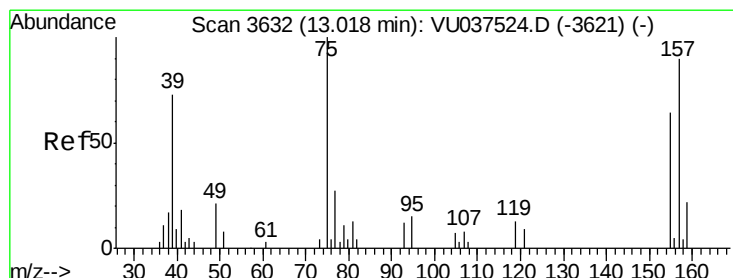
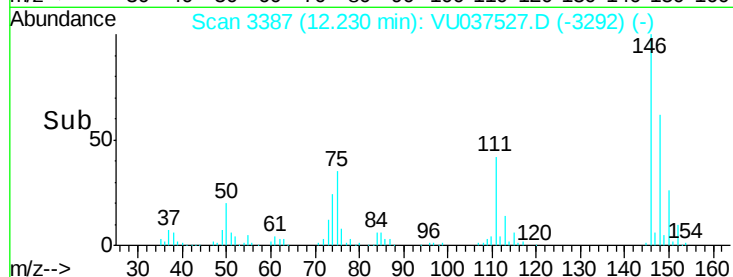
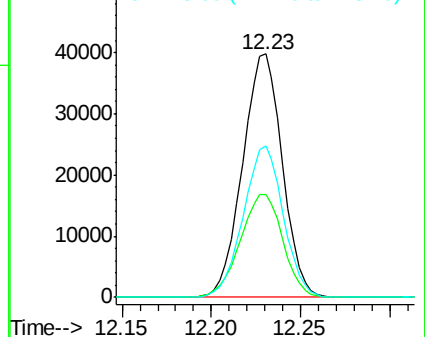
148 62.4 52.2 78.4



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.79 ug/L

RT: 13.02 min Scan# 3634

Delta R.T. 0.01 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

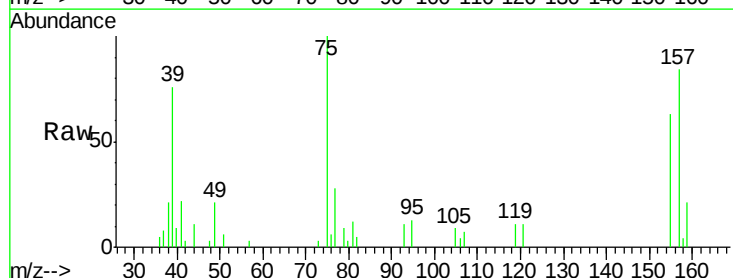
Tgt Ion: 75 Resp: 6059

Ion Ratio Lower Upper

75 100

155 63.0 51.0 76.4

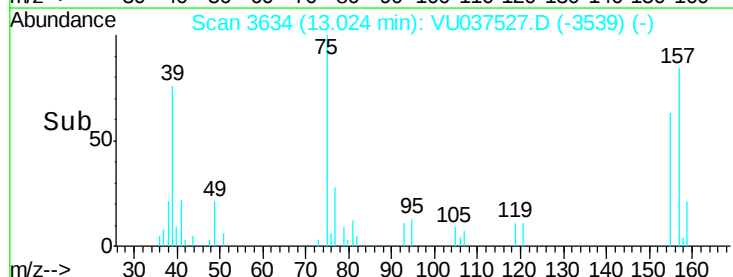
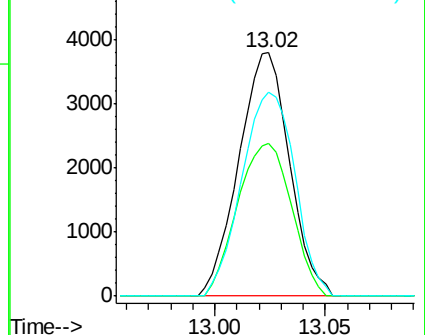
157 83.8 72.0 108.0

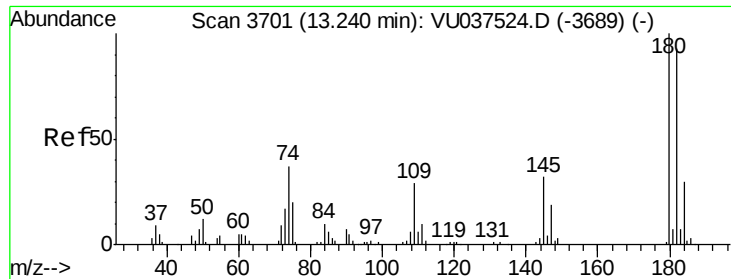


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

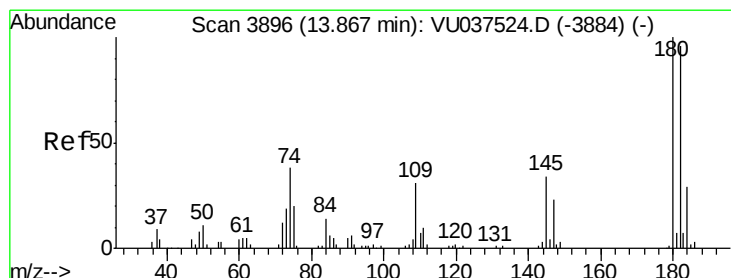
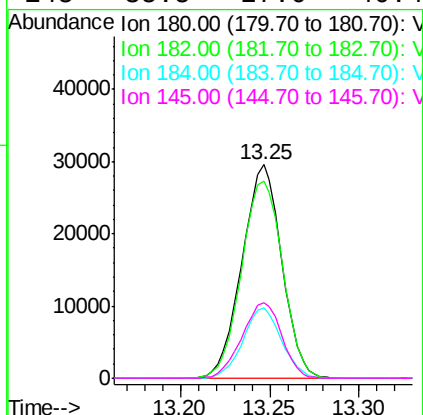
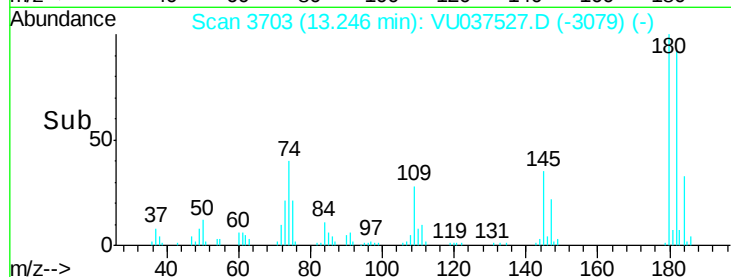
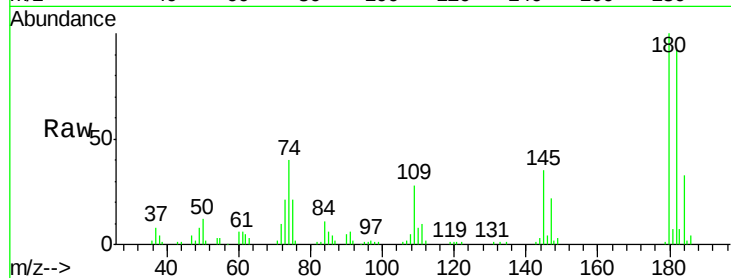




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.61 ug/L  
 RT: 13.25 min Scan# 3703  
 Delta R.T. 0.01 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

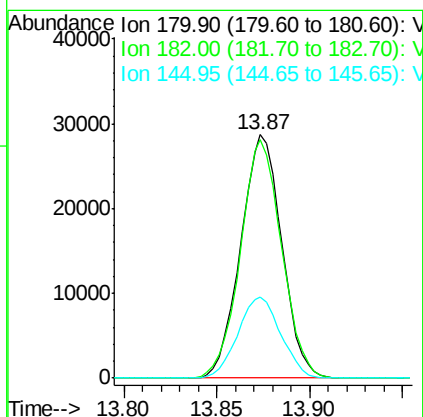
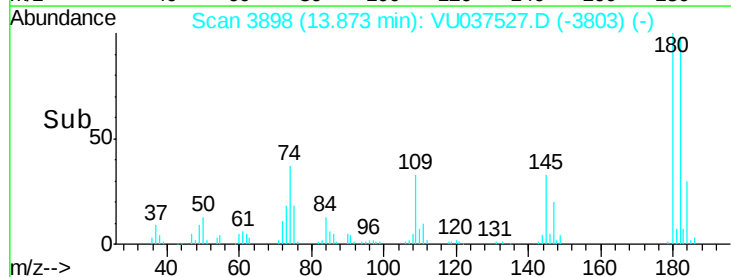
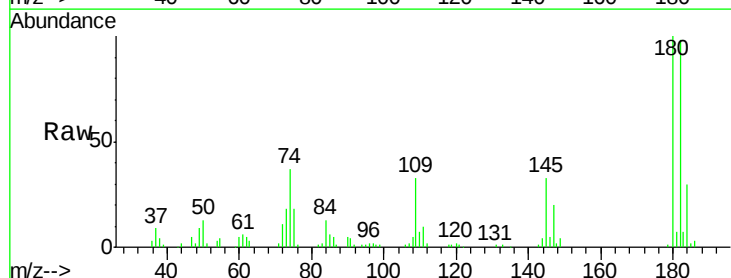
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV03

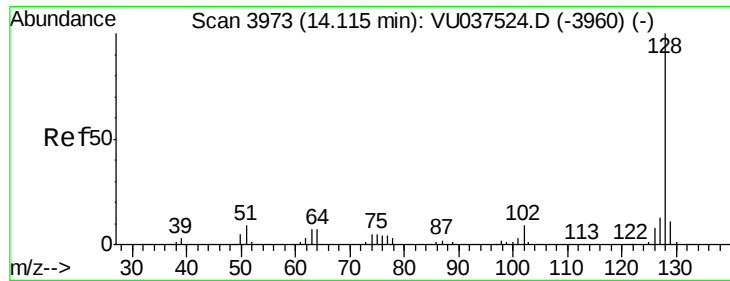
Tgt Ion:180 Resp: 45873  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 77.9 116.9  
 184 31.9 25.0 37.6  
 145 35.5 27.0 40.4



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.76 ug/L  
 RT: 13.87 min Scan# 3898  
 Delta R.T. 0.01 min  
 Lab File: VU037527.D  
 Acq: 01 Apr 2020 16:09

Tgt Ion:180 Resp: 44051  
 Ion Ratio Lower Upper  
 180 100  
 182 98.2 77.4 116.2  
 145 34.6 27.5 41.3





#69

Naphthalene

Concen: 4.97 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

VICV03

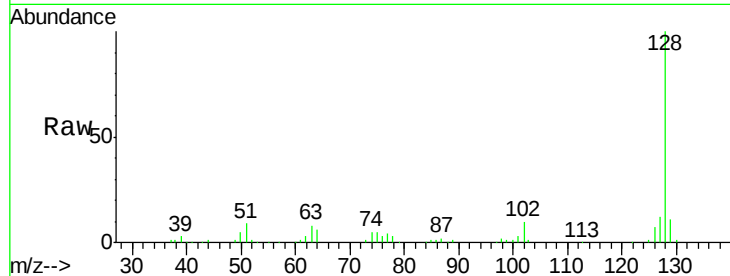
Tgt Ion:128 Resp: 102195

Ion Ratio Lower Upper

128 100

129 11.0 8.4 12.6

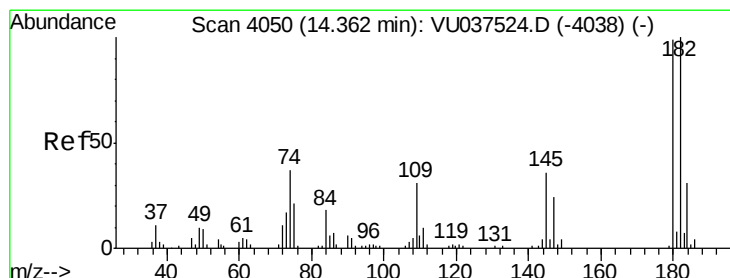
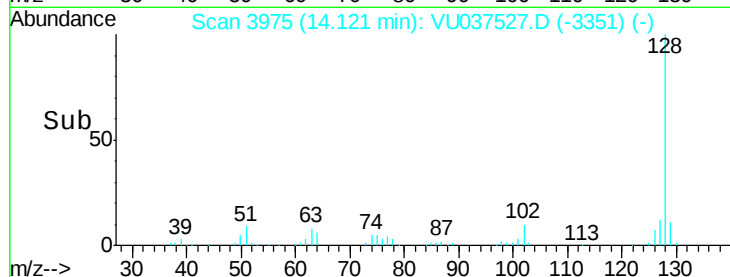
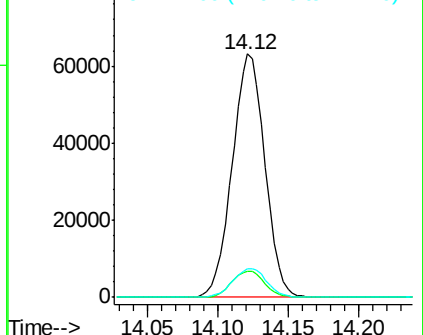
127 12.3 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.95 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. 0.00 min

Lab File: VU037527.D

Acq: 01 Apr 2020 16:09

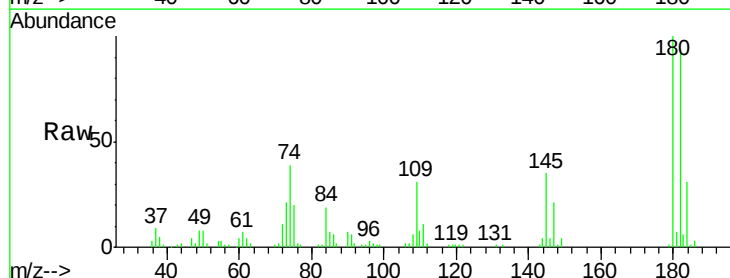
Tgt Ion:180 Resp: 40610

Ion Ratio Lower Upper

180 100

182 95.1 78.7 118.1

145 34.7 30.2 45.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

