

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD100319\  
 Data File : VD063878.D  
 Acq On : 03 Oct 2019 16:26  
 Operator : VA/SY  
 Sample : VD1003SBL07  
 Misc : 5.00g/5.00mL/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1003SBL07

Quant Time: Oct 04 01:36:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 03 04:49:16 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 188083   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 312605   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 292393   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 135596   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.34   | 65  | 92421    | 50.47 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.94% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 90867    | 47.56 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.12%  |      |
| 50) Toluene-d8              | 10.34  | 98  | 367939   | 47.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.90%  |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 115263   | 42.78 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 85.56%  |      |

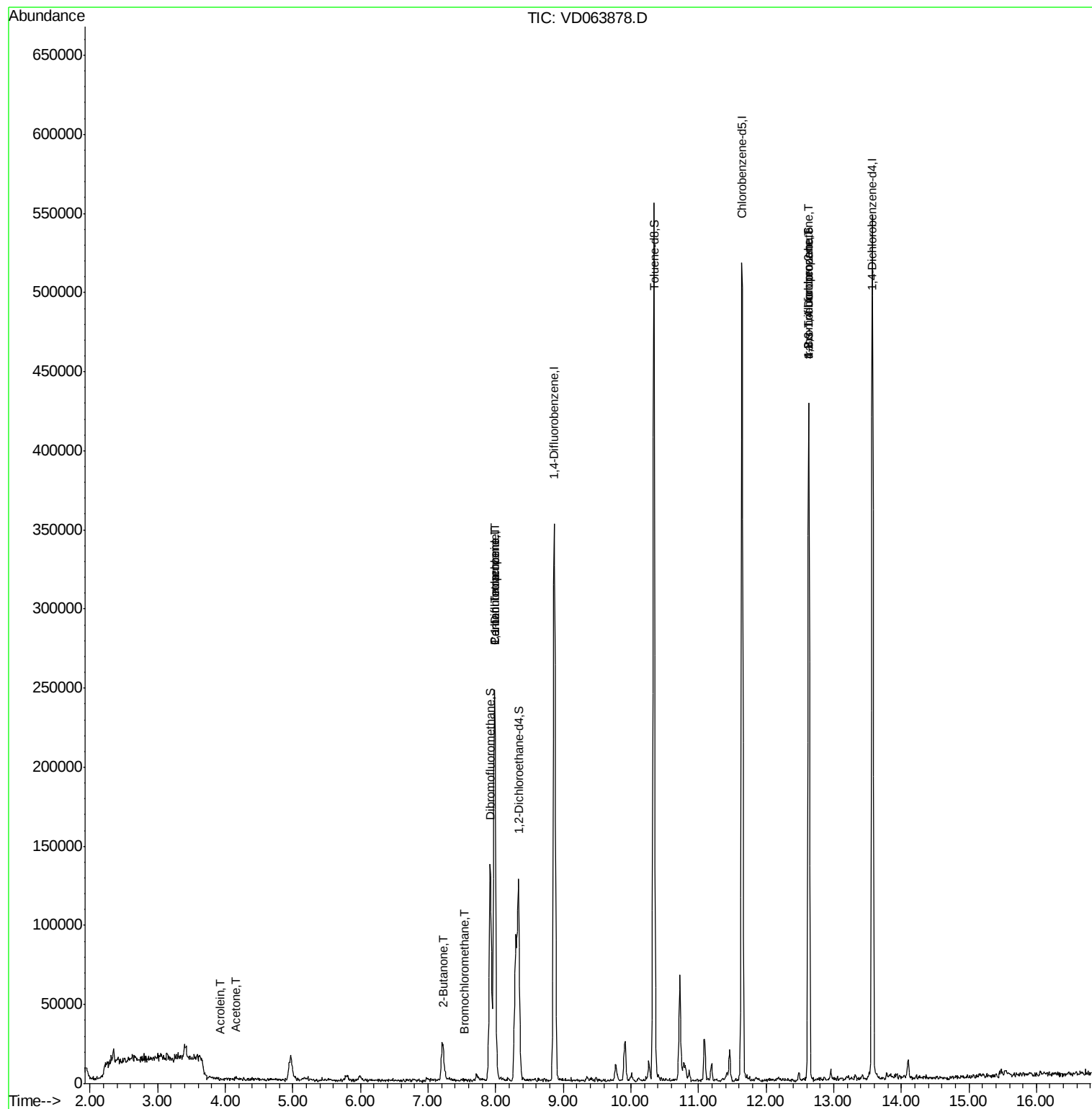
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.21  | 50   | 895      | Below Cal | #      | 86     |
| 11) Tert butyl alcohol         | 5.24  | 59   | 416      | Below Cal | #      | 71     |
| 13) Acrolein                   | 3.93  | 56   | 211      | 1.290     | ug/l # | 49     |
| 16) Acetone                    | 4.16  | 43   | 2420     | 5.076     | ug/l # | 68     |
| 20) Methylene Chloride         | 4.95  | 84   | 4542     | Below Cal | #      | 85     |
| 25) 2-Butanone                 | 7.24  | 43   | 1191     | 2.108     | ug/l # | 90     |
| 28) Bromochloromethane         | 7.54  | 49   | 156      | 1.984     | ug/l # | 10     |
| 31) Cyclohexane                | 7.99  | 56   | 5398     | Below Cal | #      | 72     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 14658    | 5.128     | ug/l # | 41     |
| 37) Ethyl Acetate              | 7.31  | 43   | 1696     | Below Cal | #      | 86     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 20056    | 6.944     | ug/l # | 19     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 65867    | 72.526    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 65867    | 128.342   | ug/l # | 12     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.47 | 75   | 124      | Below Cal | #      | 1      |

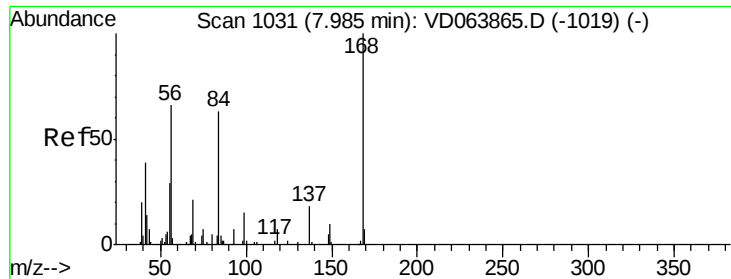
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD100319\  
Data File : VD063878.D  
Acq On : 03 Oct 2019 16:26  
Operator : VA/SY  
Sample : VD1003SBL07  
Misc : 5.00g/5.00mL/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1003SBL07

Quant Time: Oct 04 01:36:43 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 03 04:49:16 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

Instrument :

MSVOA\_D

ClientSampleId :

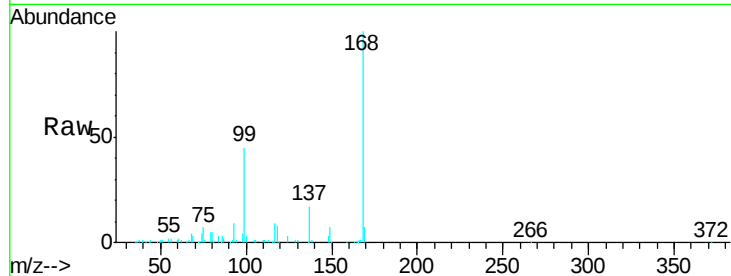
VD1003SBL07

Tgt Ion:168 Resp: 188083

Ion Ratio Lower Upper

168 100

99 45.3 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

100000

80000

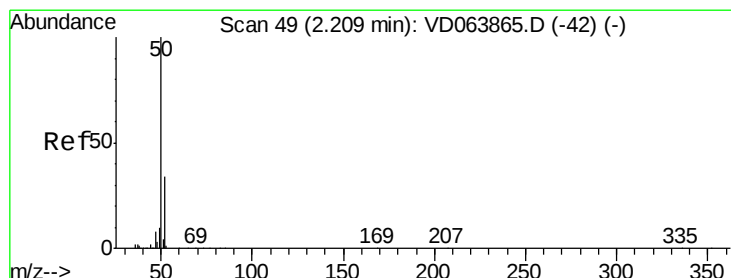
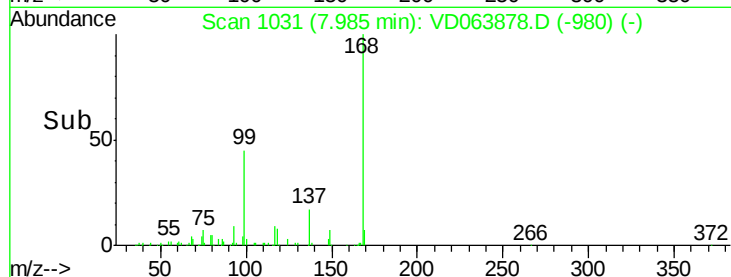
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063878.D

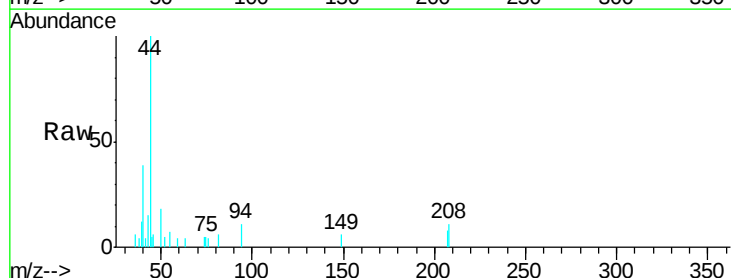
Acq: 03 Oct 2019 16:26

Tgt Ion: 50 Resp: 895

Ion Ratio Lower Upper

50 100

52 26.2 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

800

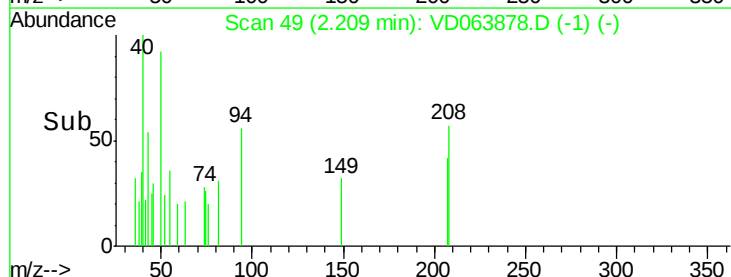
600

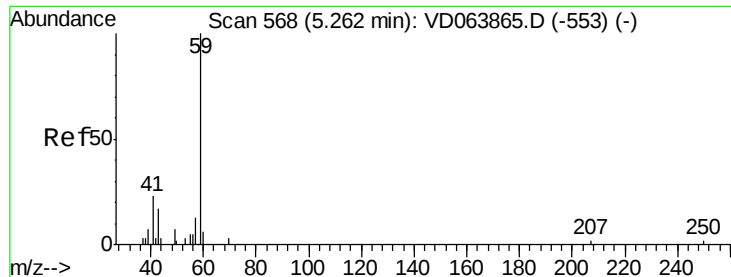
400

200

0

Time-->



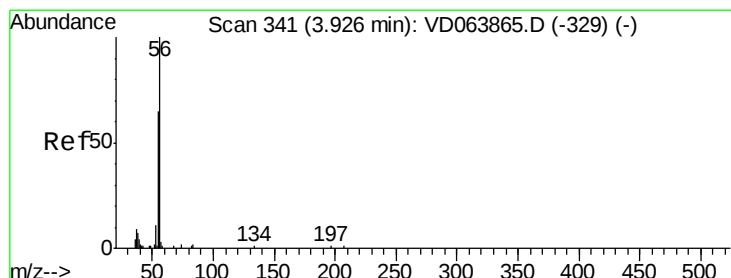
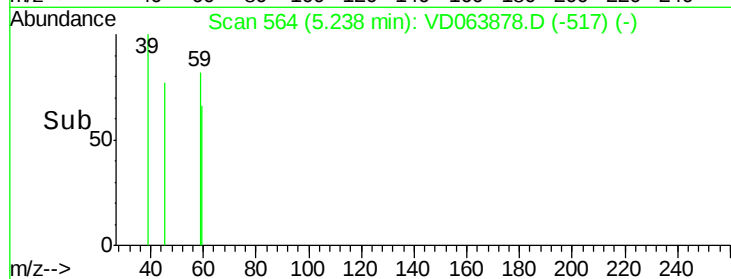
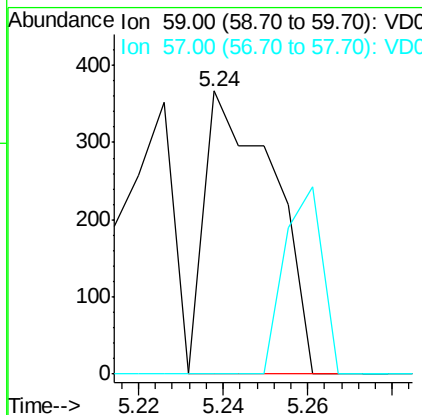
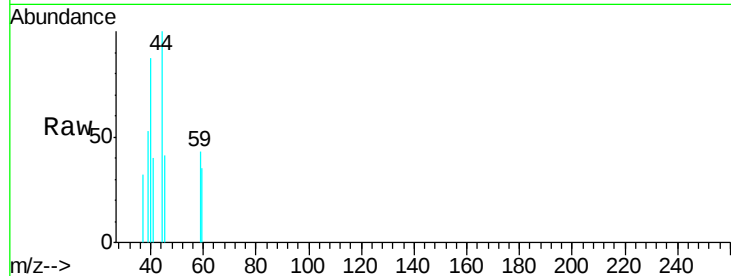


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.24 min Scan# 564  
 Delta R.T. -0.02 min  
 Lab File: VD063878.D  
 Acq: 03 Oct 2019 16:26

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1003SBL07

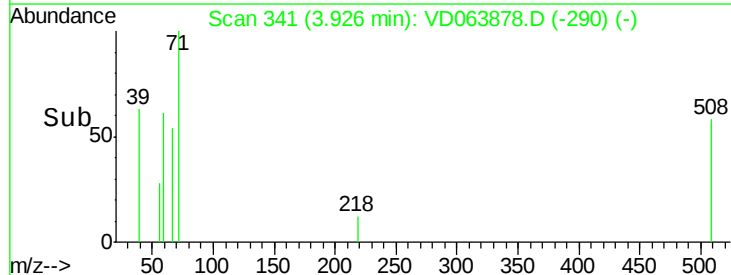
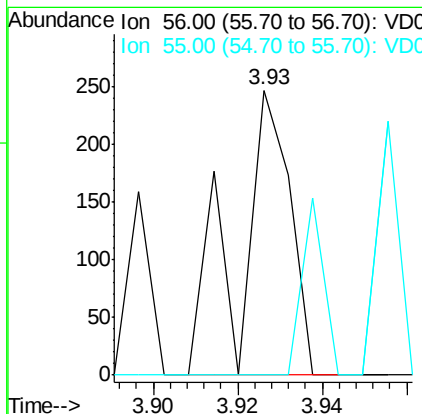
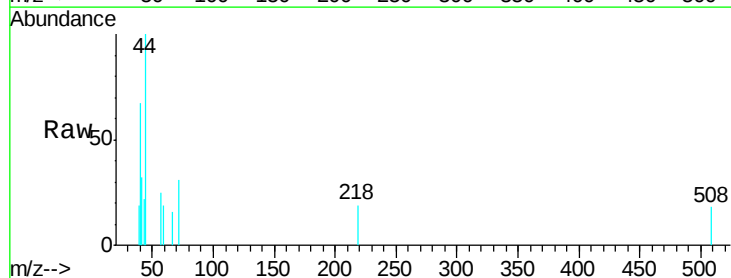
Tgt Ion: 59 Resp: 416  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.8 13.2#

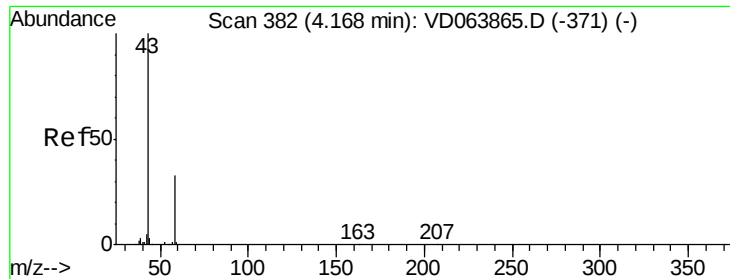


#13

Acrolein  
 Concen: 1.290 ug/l  
 RT: 3.93 min Scan# 341  
 Delta R.T. -0.00 min  
 Lab File: VD063878.D  
 Acq: 03 Oct 2019 16:26

Tgt Ion: 56 Resp: 211  
 Ion Ratio Lower Upper  
 56 100  
 55 25.6 53.0 79.6#





#16

Acetone

Concen: 5.076 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

Instrument :

MSVOA\_D

ClientSampleId :

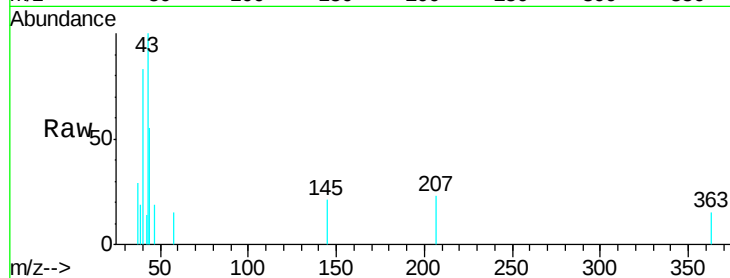
VD1003SBL07

Tgt Ion: 43 Resp: 2420

Ion Ratio Lower Upper

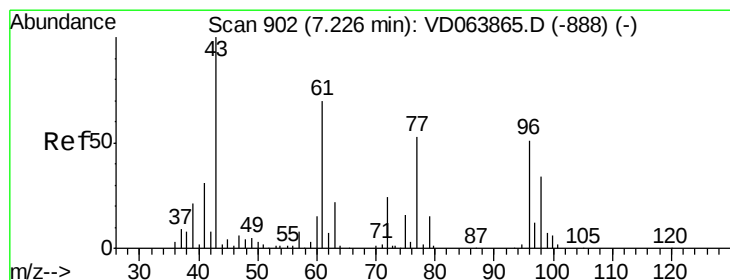
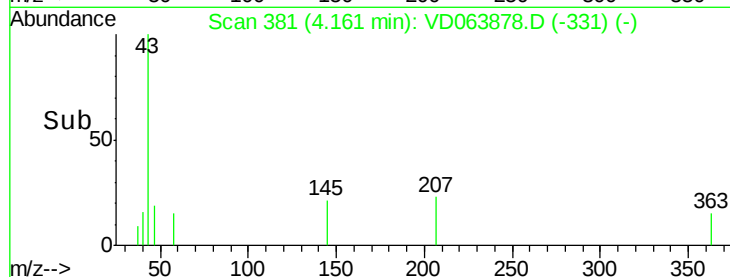
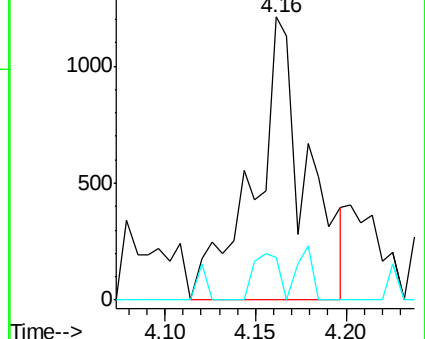
43 100

58 15.0 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 2.108 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.01 min

Lab File: VD063878.D

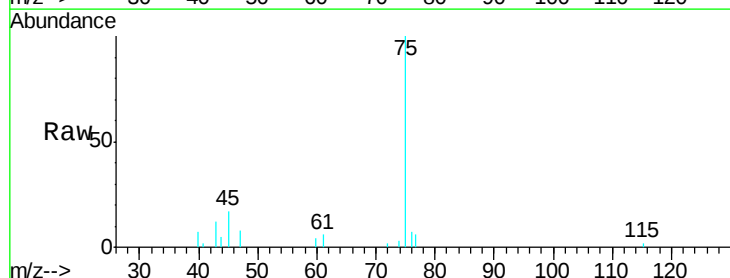
Acq: 03 Oct 2019 16:26

Tgt Ion: 43 Resp: 1191

Ion Ratio Lower Upper

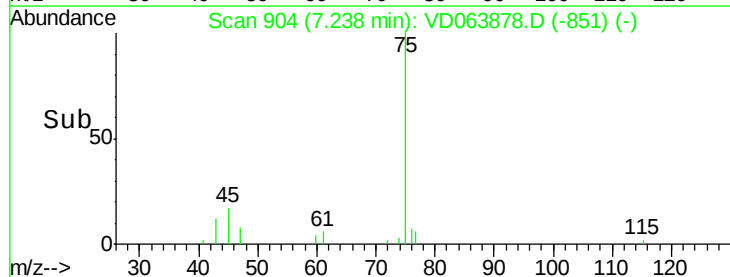
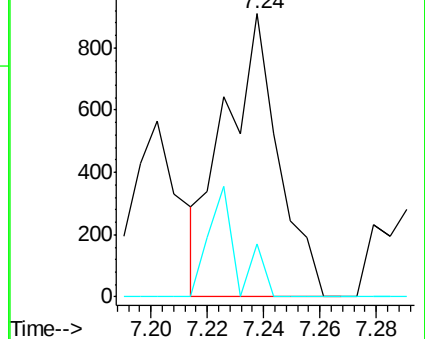
43 100

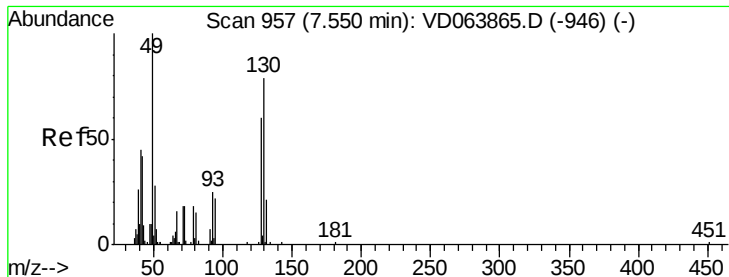
72 18.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#28

Bromochloromethane

Concen: 1.984 ug/l

RT: 7.54 min Scan# 956

Delta R.T. -0.01 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

Instrument :

MSVOA\_D

ClientSampleId :

VD1003SBL07

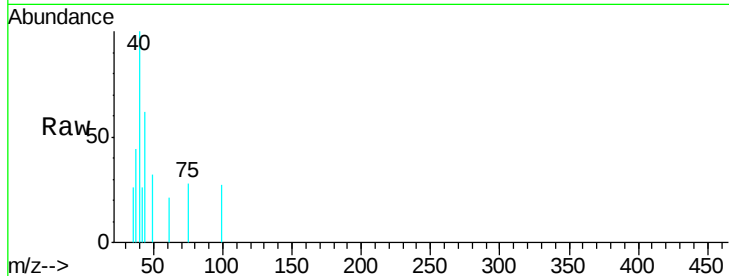
Tgt Ion: 49 Resp: 156

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

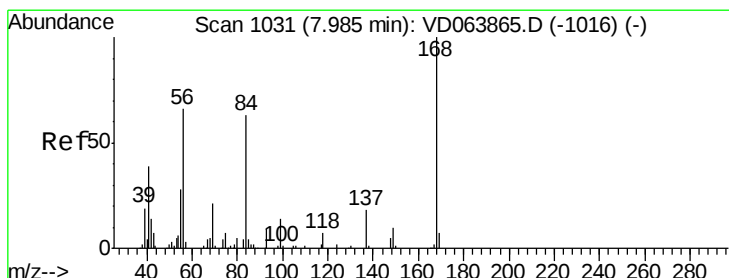
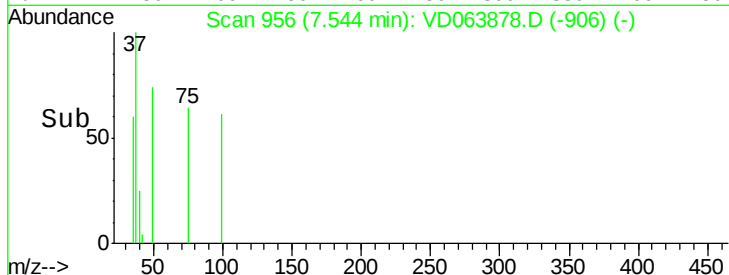
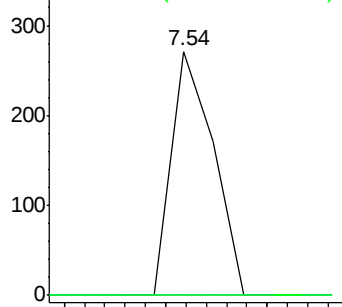
130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

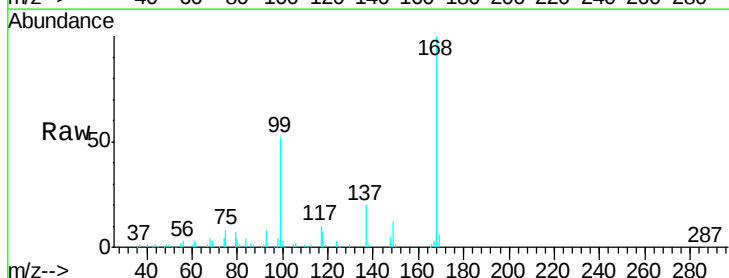
Tgt Ion: 56 Resp: 5398

Ion Ratio Lower Upper

56 100

69 81.6 25.0 37.4#

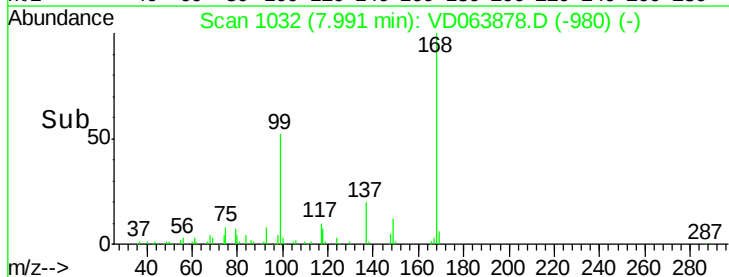
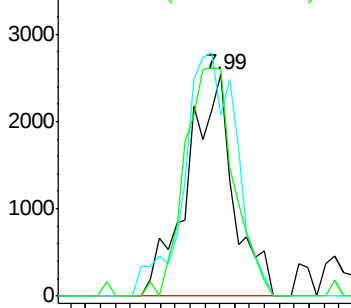
84 102.3 76.3 114.5

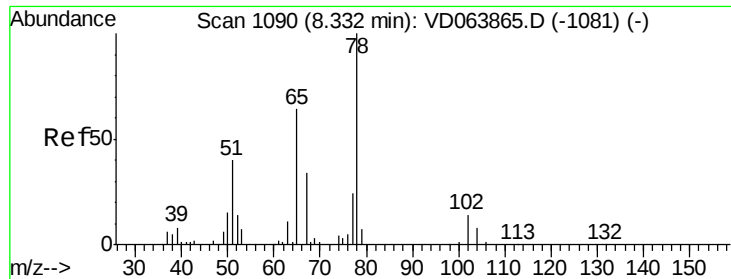


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

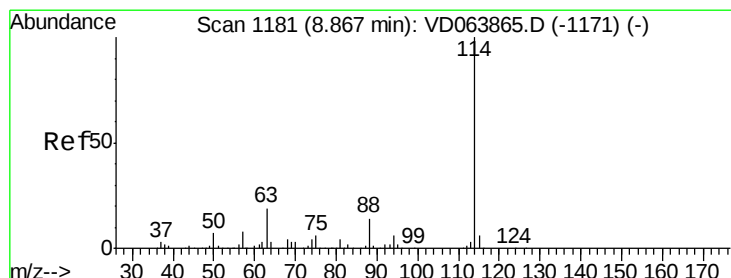
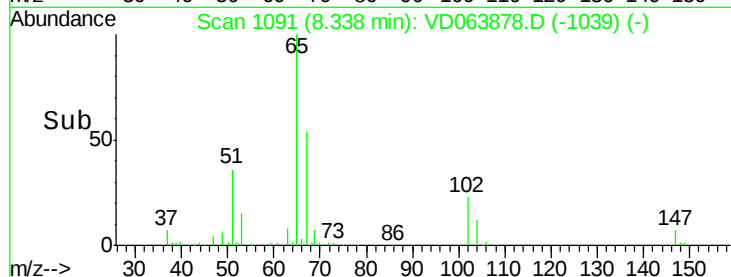
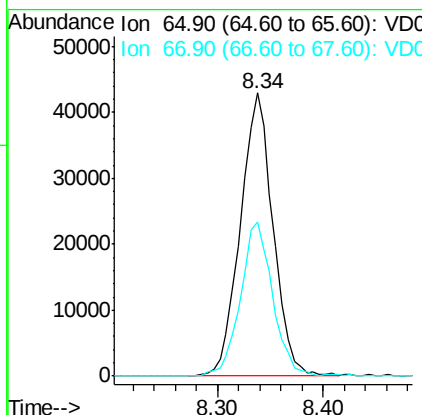
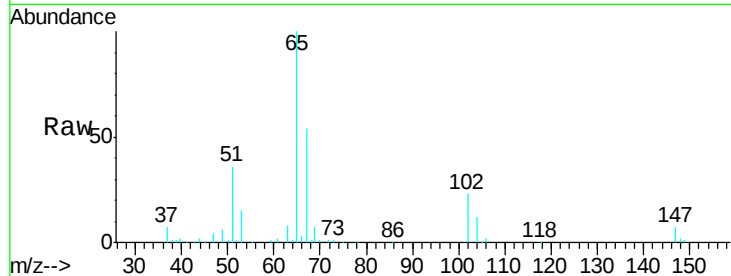




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.472 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.01 min  
 Lab File: VD063878.D  
 Acq: 03 Oct 2019 16:26

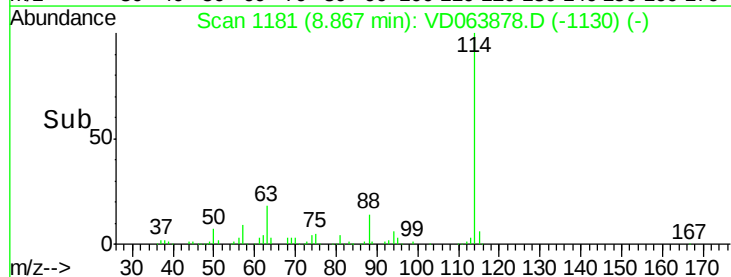
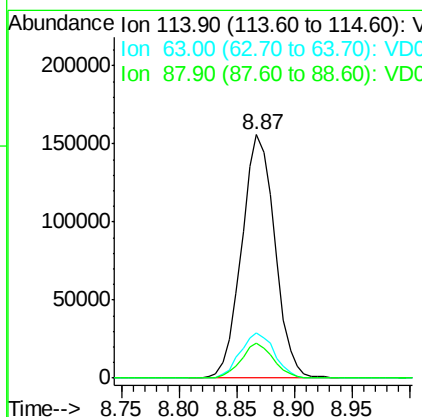
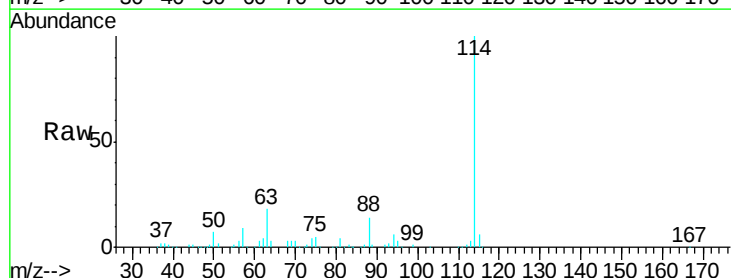
Instrument :  
 MSVOA\_D  
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 VD1003SBL07

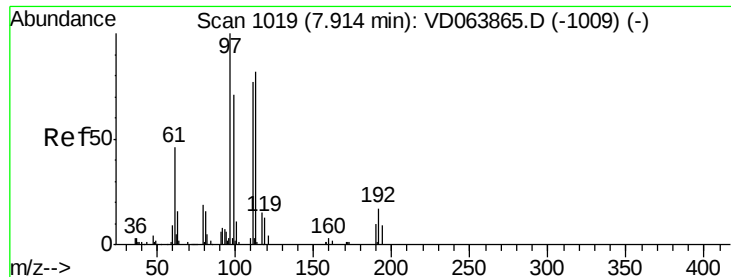
Tgt Ion: 65 Resp: 92421  
 Ion Ratio Lower Upper  
 65 100  
 67 53.3 0.0 106.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD063878.D  
 Acq: 03 Oct 2019 16:26

Tgt Ion: 114 Resp: 312605  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 38.4  
 88 14.2 0.0 27.4

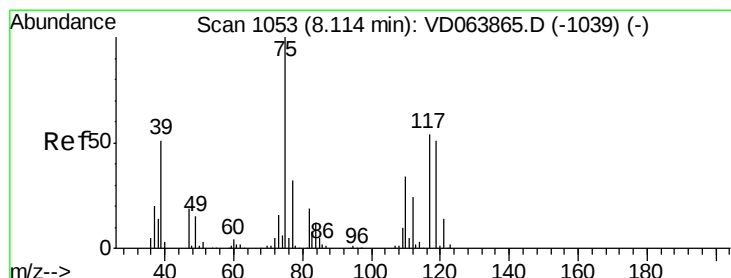
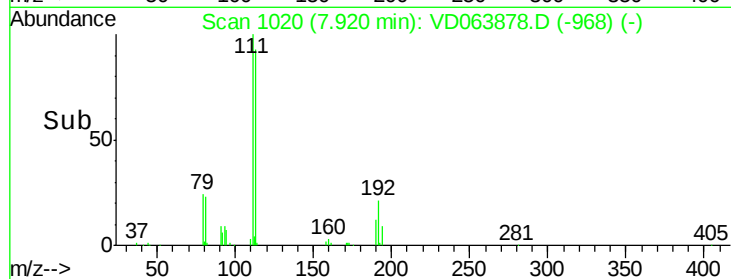
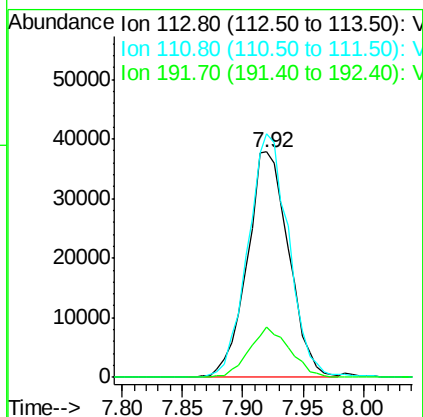
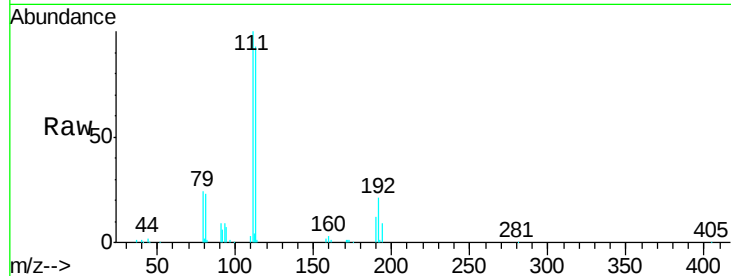




#35  
 Dibromofluoromethane  
 Concen: 47.564 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD063878.D  
 Acq: 03 Oct 2019 16:26

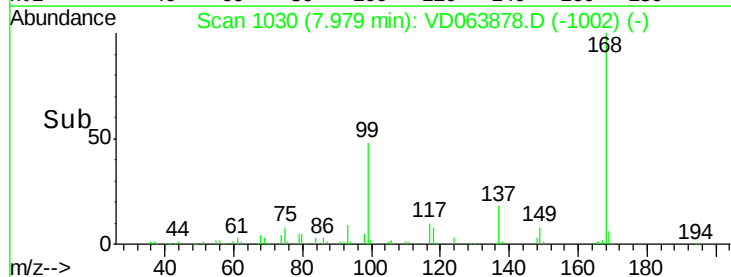
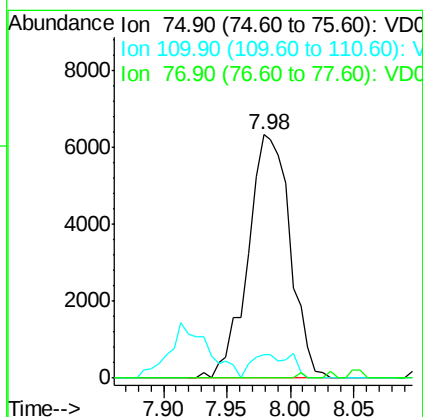
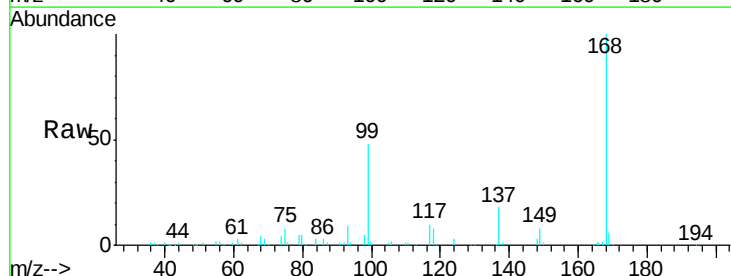
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1003SBL07

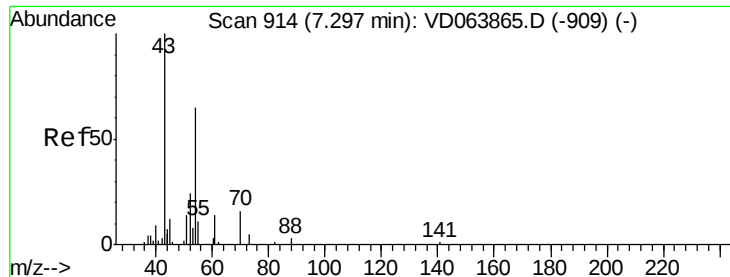
Tgt Ion:113 Resp: 90867  
 Ion Ratio Lower Upper  
 113 100  
 111 106.3 82.6 123.8  
 192 21.5 17.1 25.7



#36  
 1,1-Dichloropropene  
 Concen: 5.128 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD063878.D  
 Acq: 03 Oct 2019 16:26

Tgt Ion: 75 Resp: 14658  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 17.4 52.3#  
 77 0.0 25.4 38.0#

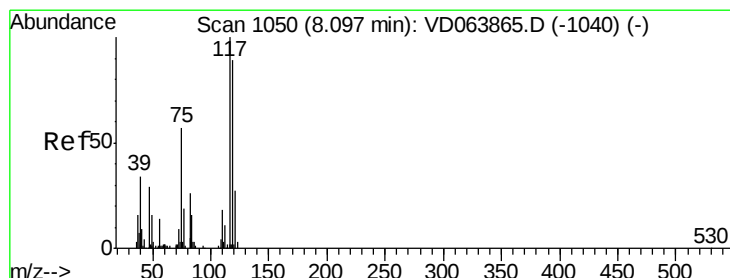
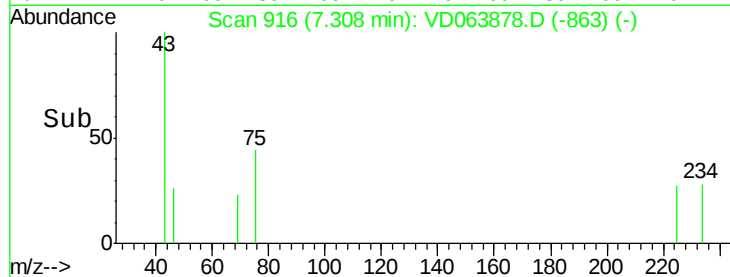
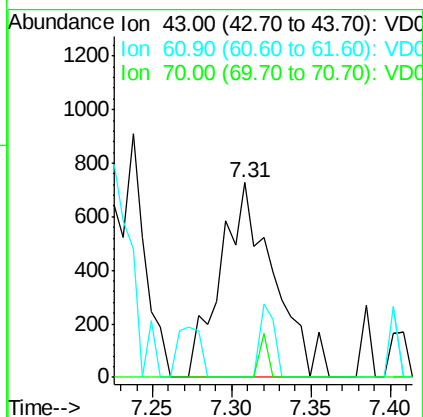
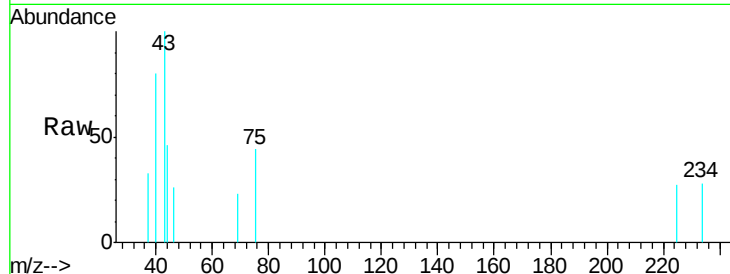




#37  
Ethyl Acetate  
Concen: Below Cal  
RT: 7.31 min Scan# 916  
Delta R.T. 0.01 min  
Lab File: VD063878.D  
Acq: 03 Oct 2019 16:26

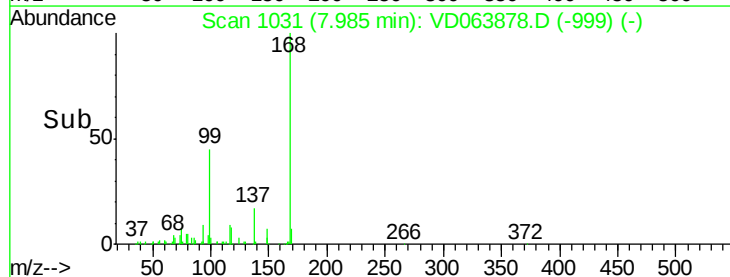
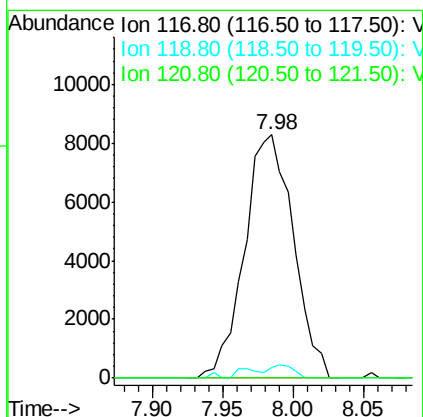
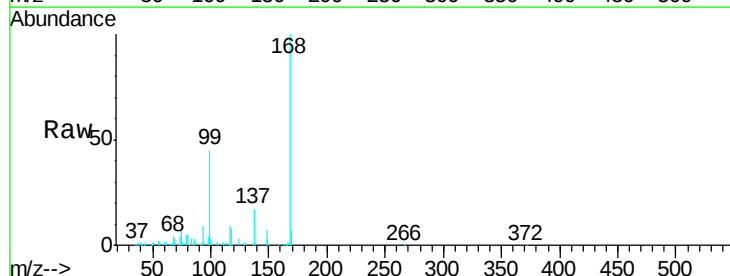
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1003SBL07

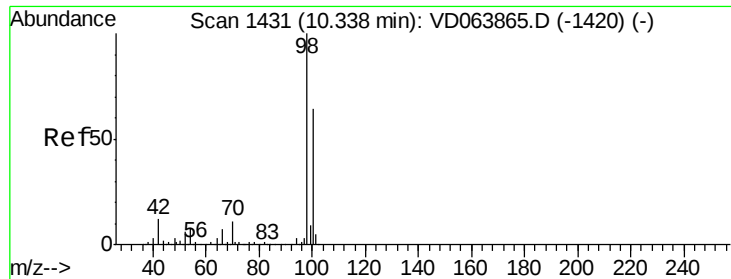
Tgt Ion: 43 Resp: 1696  
Ion Ratio Lower Upper  
43 100  
61 10.2 11.5 17.3#  
70 3.4 8.2 12.4#



#38  
Carbon Tetrachloride  
Concen: 6.944 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD063878.D  
Acq: 03 Oct 2019 16:26

Tgt Ion: 117 Resp: 20056  
Ion Ratio Lower Upper  
117 100  
119 4.6 70.8 106.2#  
121 0.0 21.4 32.0#





#50

Toluene-d8

Concen: 47.451 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

Instrument :

MSVOA\_D

ClientSampleId :

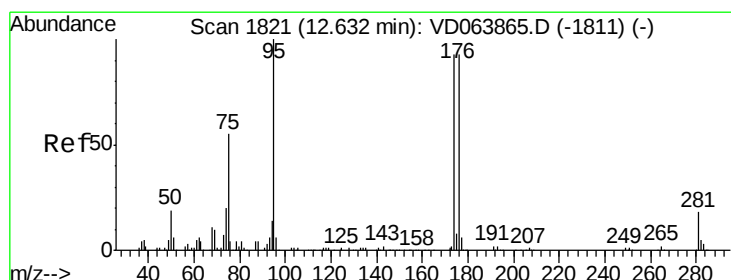
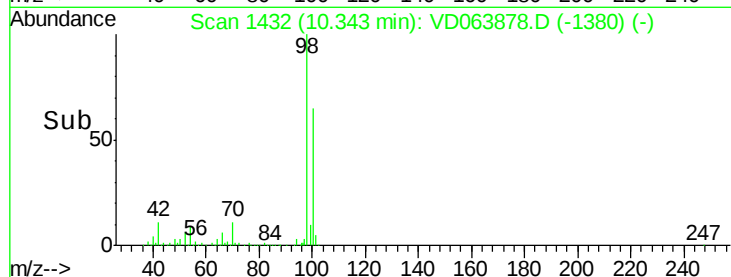
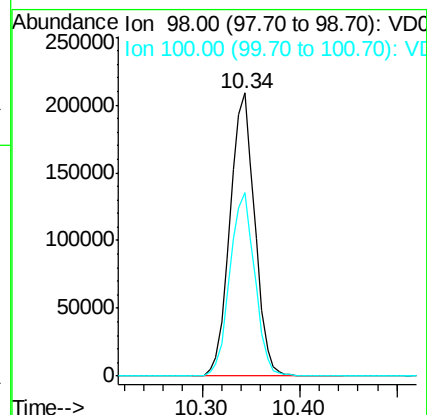
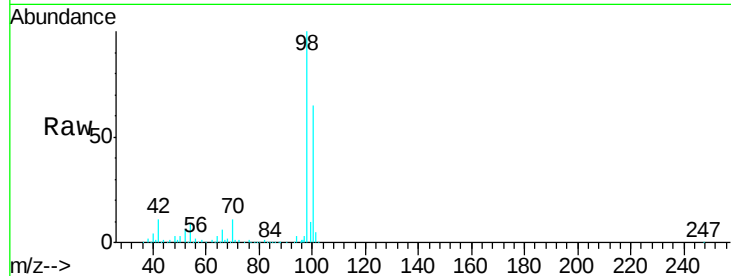
VD1003SBL07

Tgt Ion: 98 Resp: 367939

Ion Ratio Lower Upper

98 100

100 65.0 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 42.776 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

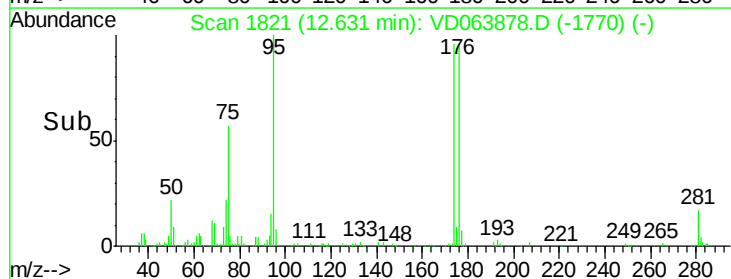
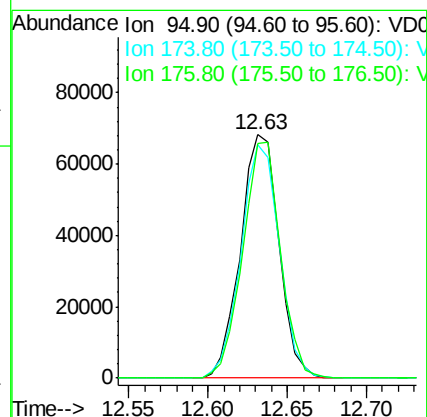
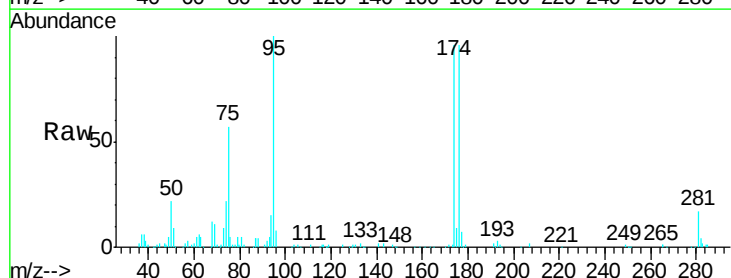
Tgt Ion: 95 Resp: 115263

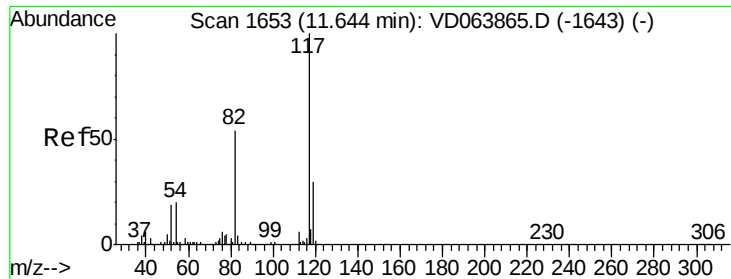
Ion Ratio Lower Upper

95 100

174 96.0 0.0 186.4

176 95.1 0.0 184.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

Instrument :

MSVOA\_D

ClientSampleId :

VD1003SBL07

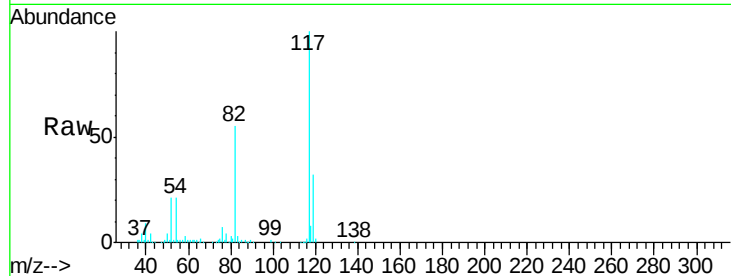
Tgt Ion:117 Resp: 292393

Ion Ratio Lower Upper

117 100

82 54.5 42.8 64.2

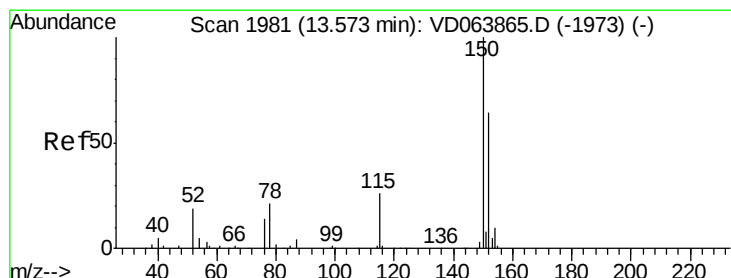
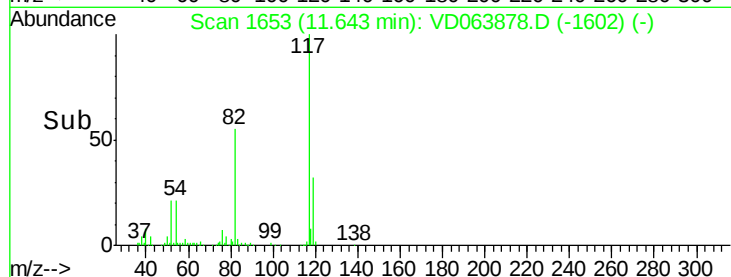
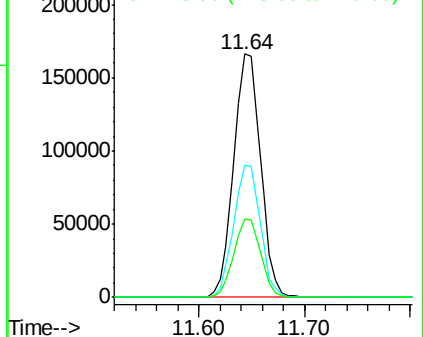
119 32.3 24.4 36.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

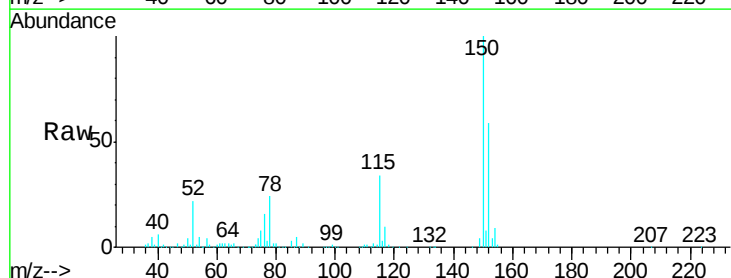
Tgt Ion:152 Resp: 135596

Ion Ratio Lower Upper

152 100

115 57.7 25.9 77.7

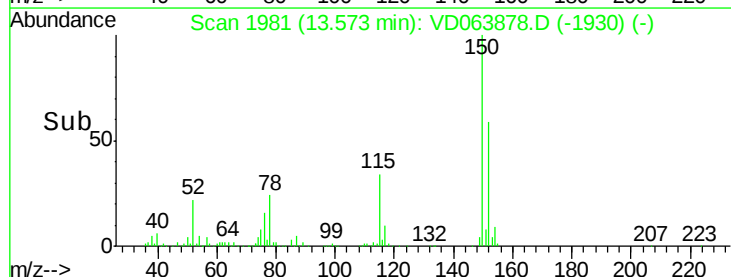
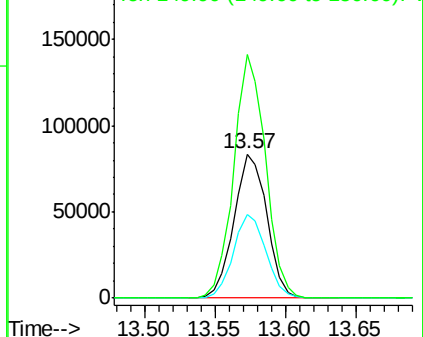
150 163.4 0.0 344.2

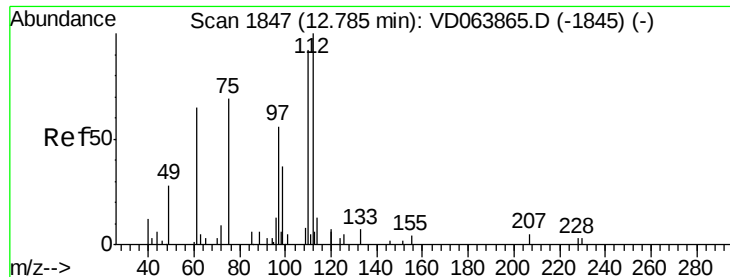


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

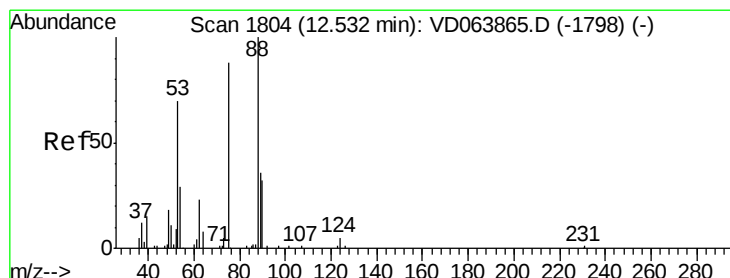
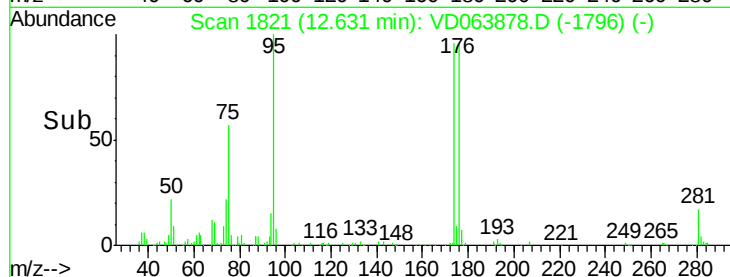
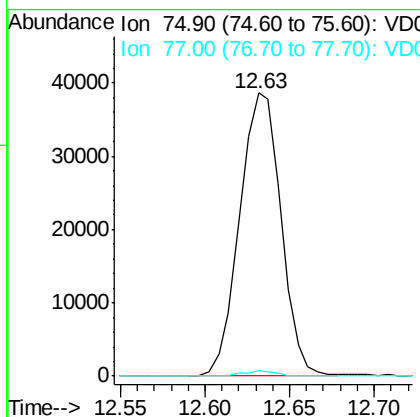
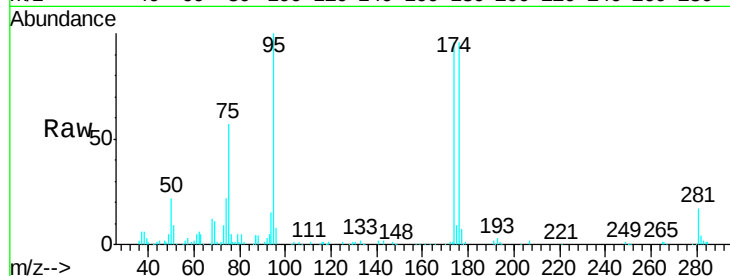




#76  
 1,2,3-Trichloropropane  
 Concen: 72.526 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. -0.15 min  
 Lab File: VD063878.D  
 Acq: 03 Oct 2019 16:26

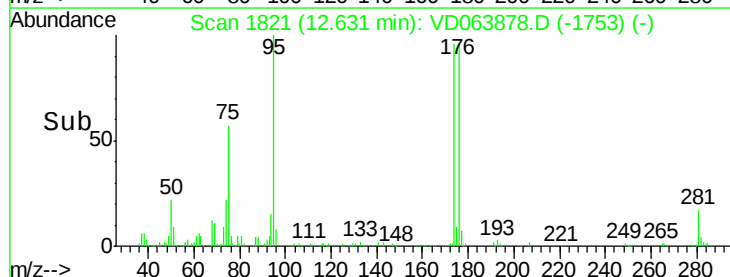
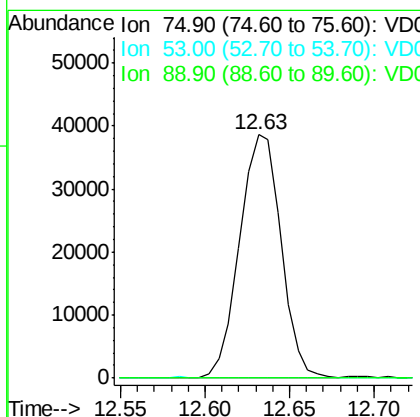
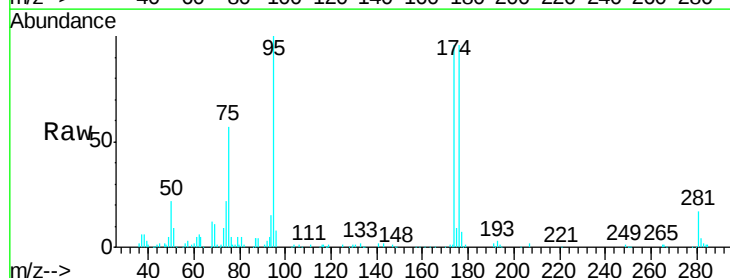
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1003SBL07

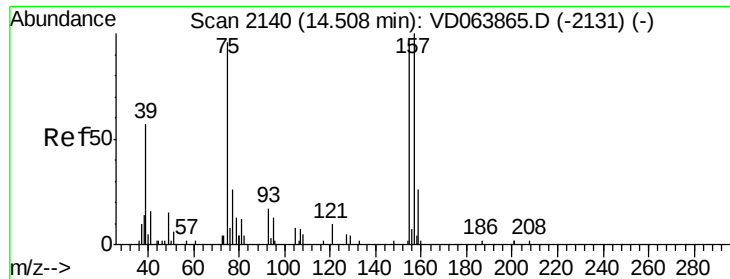
Tgt Ion: 75 Resp: 65867  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 128.342 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. 0.10 min  
 Lab File: VD063878.D  
 Acq: 03 Oct 2019 16:26

Tgt Ion: 75 Resp: 65867  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 75.0 112.6#  
 89 0.0 38.2 57.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.47 min Scan# 2133

Delta R.T. -0.04 min

Lab File: VD063878.D

Acq: 03 Oct 2019 16:26

Instrument :

MSVOA\_D

ClientSampleId :

VD1003SBL07

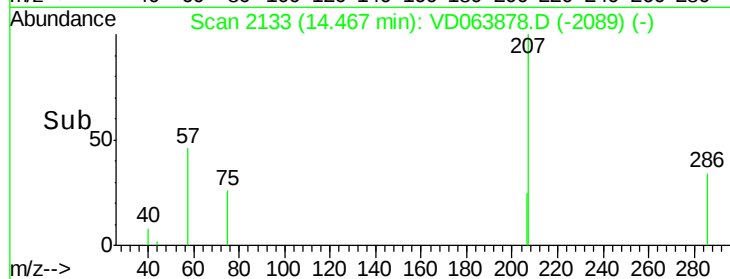
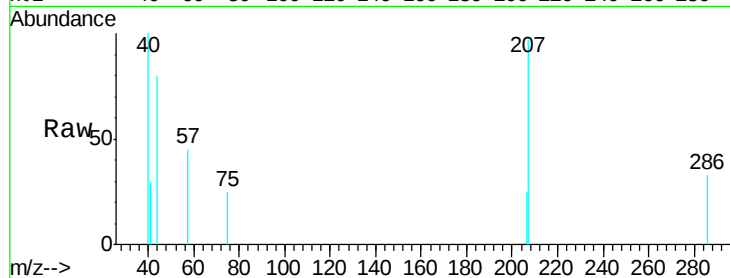
Tgt Ion: 75 Resp: 124

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

