

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY073120\  
 Data File : VY003387.D  
 Acq On : 31 Jul 2020 14:11  
 Operator : SY/MD  
 Sample : VY0731SBL01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0731SBL01

Quant Time: Aug 01 01:24:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y073120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 31 13:09:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 472058   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 734016   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 682407   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 337476   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.14  | 65   | 233861   | 52.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.20% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 228952   | 52.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.90% |          |
| 50) Toluene-d8              | 10.18 | 98   | 895199   | 52.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.74% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 292864   | 50.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.24% |          |

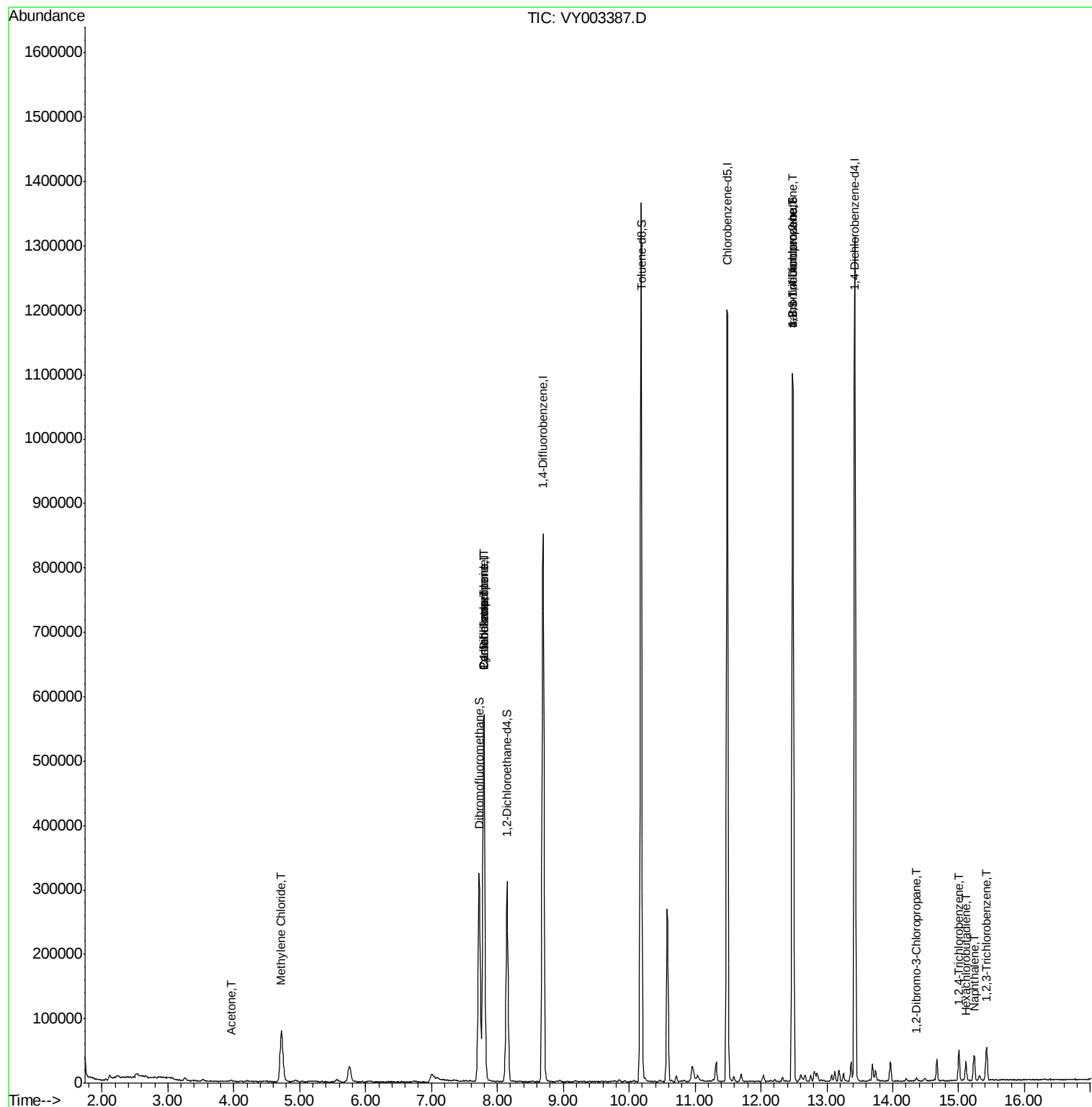
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.93  | 59   | 2062     | Below Cal | #      | 76     |
| 16) Acetone                    | 3.96  | 43   | 3103     | 2.798     | ug/l   | 96     |
| 20) Methylene Chloride         | 4.72  | 84   | 60558    | 2.381     | ug/l   | 98     |
| 31) Cyclohexane                | 7.80  | 56   | 8844     | 1.112     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.79  | 75   | 32262    | 4.645     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 43788    | 6.126     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 151559   | 49.991    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 151559   | 94.546    | ug/l # | 15     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.35 | 75   | 1477     | 2.122     | ug/l   | 77     |
| 93) 1,2,4-Trichlorobenzene     | 15.00 | 180  | 14994    | 2.264     | ug/l   | 96     |
| 94) Hexachlorobutadiene        | 15.11 | 225  | 6351     | 1.448     | ug/l   | 97     |
| 95) Naphthalene                | 15.23 | 128  | 32821    | 2.926     | ug/l   | 100    |
| 96) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 17283    | 3.226     | ug/l   | 98     |

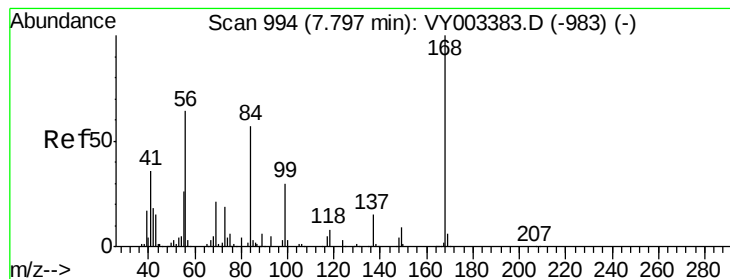
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY073120\  
Data File : VY003387.D  
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Sample : VY0731SBL01  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0731SBL01

Quant Time: Aug 01 01:24:19 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y073120S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 31 13:09:26 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

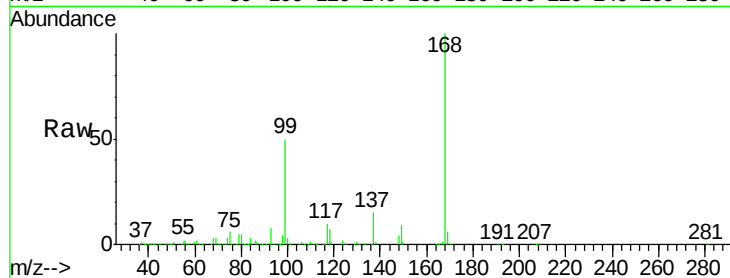
VY0731SBL01

Tot Ion:168 Resp: 472058

Ion Ratio Lower Upper

168 100

99 49.7 38.8 58.2



Abundance Ion 167.90 (167.60 to 168.60): VY003387.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY003387.D (-983) (-)

7.80

250000

200000

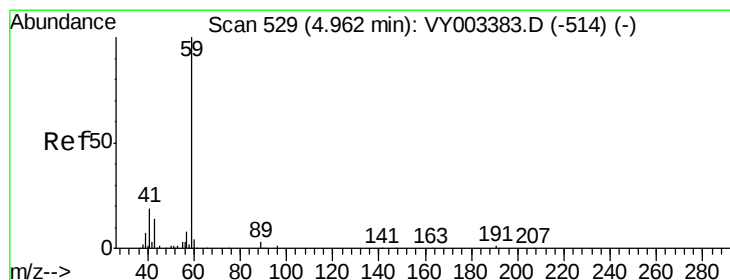
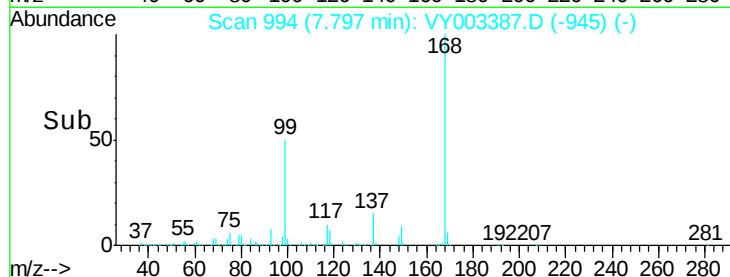
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.93 min Scan# 523

Delta R.T. -0.04 min

Lab File: VY003387.D

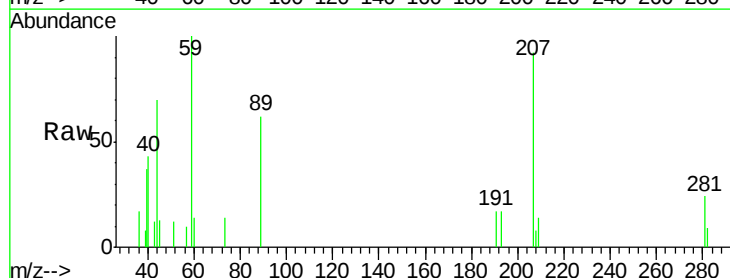
Acq: 31 Jul 2020 14:11

Tgt Ion: 59 Resp: 2062

Ion Ratio Lower Upper

59 100

57 1.2 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY003387.D (-514) (-)

Ion 57.00 (56.70 to 57.70): VY003387.D (-514) (-)

4.93

800

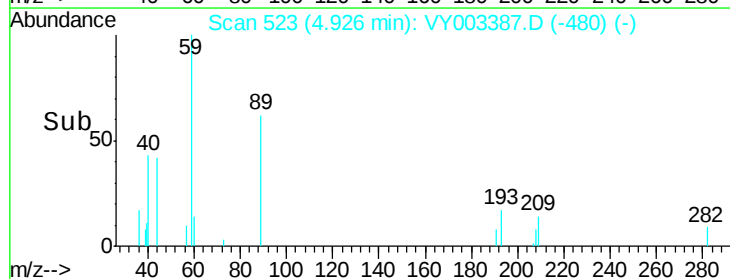
600

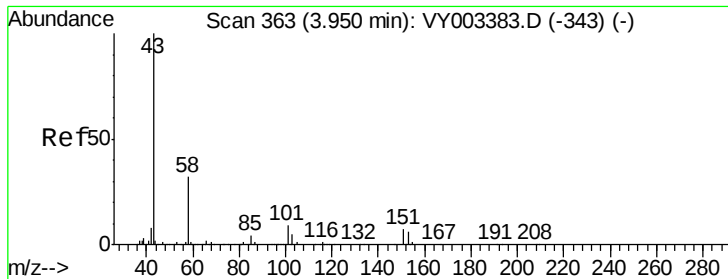
400

200

0

Time-->

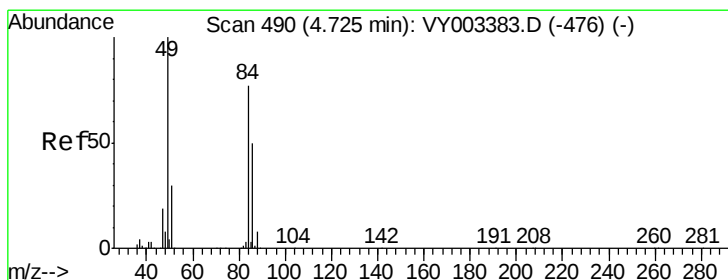
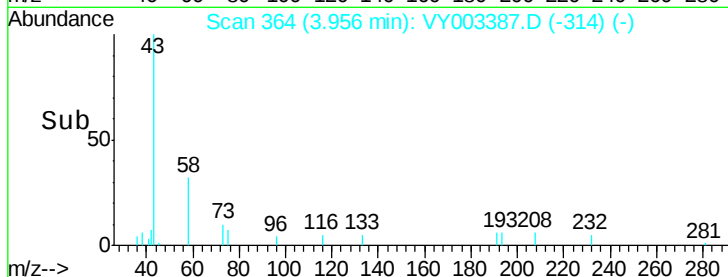
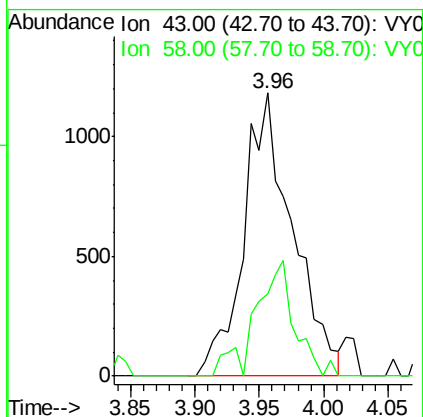
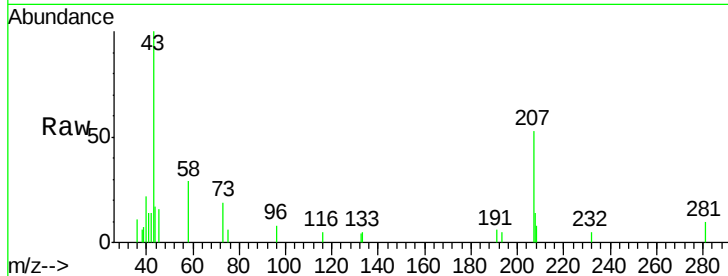




#16  
Acetone  
Concen: 2.798 ug/l  
RT: 3.96 min Scan# 364  
Delta R.T. 0.01 min  
Lab File: VY003387.D  
Acq: 31 Jul 2020 14:11

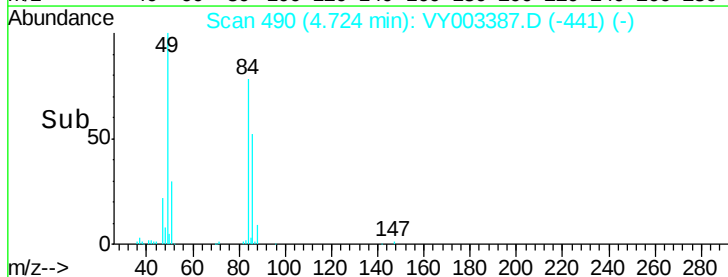
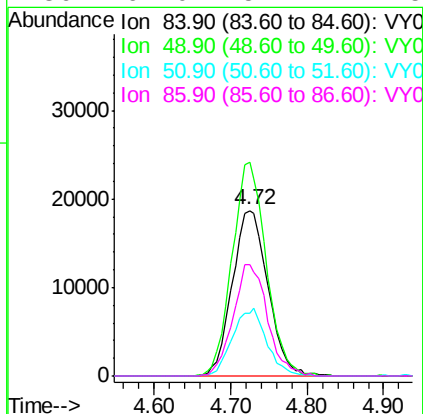
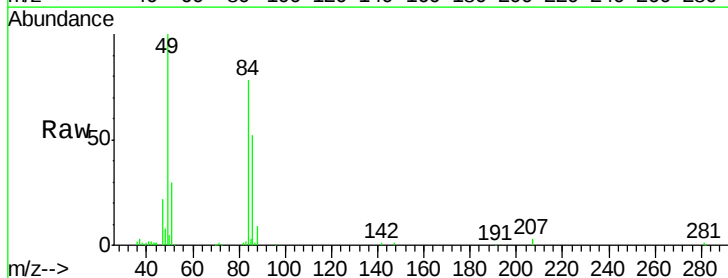
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0731SBL01

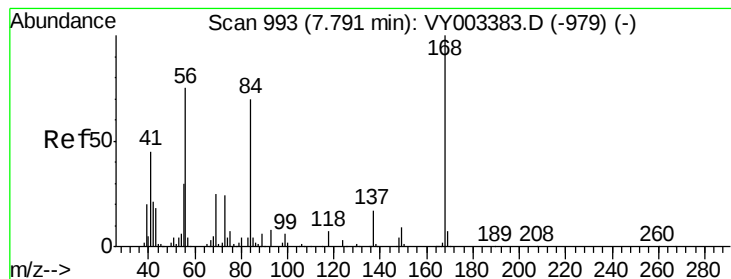
Tot Ion: 43 Resp: 3103  
Ion Ratio Lower Upper  
43 100  
58 29.4 25.4 38.2



#20  
Methylene Chloride  
Concen: 2.381 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY003387.D  
Acq: 31 Jul 2020 14:11

Tgt Ion: 84 Resp: 60558  
Ion Ratio Lower Upper  
84 100  
49 128.9 104.2 156.4  
51 38.2 31.5 47.3  
86 67.0 51.7 77.5





#31

Cyclohexane

Concen: 1.112 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

VY0731SBL01

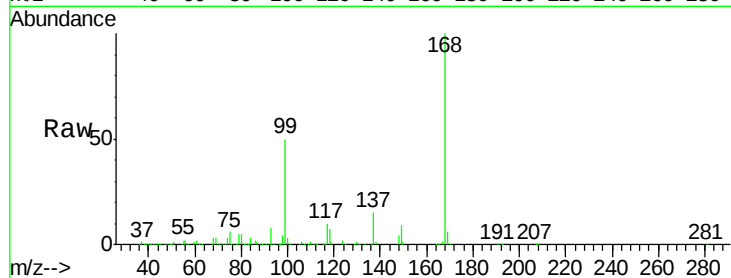
Tot Ion: 56 Resp: 8844

Ion Ratio Lower Upper

56 100

69 156.2 26.1 39.1#

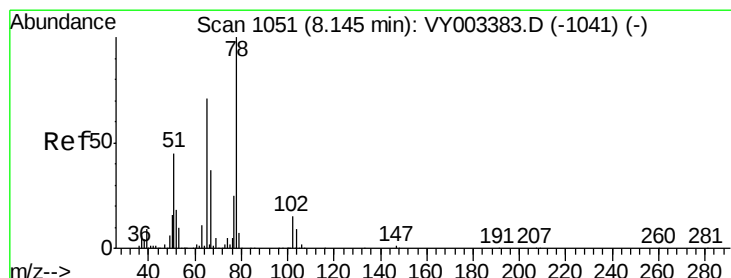
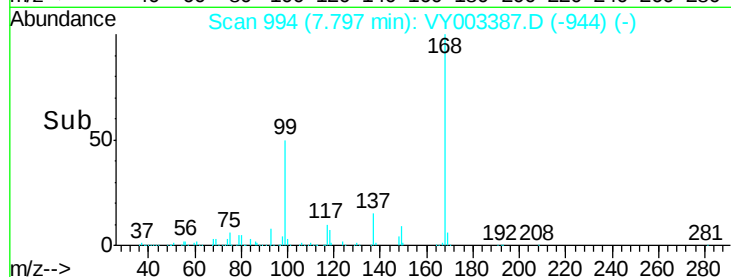
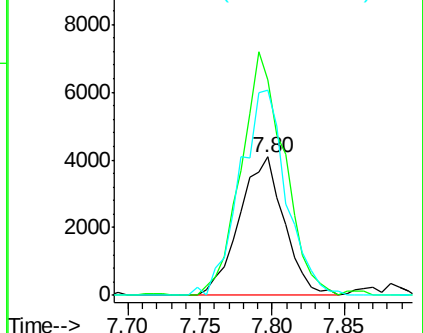
84 148.0 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 52.104 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VY003387.D

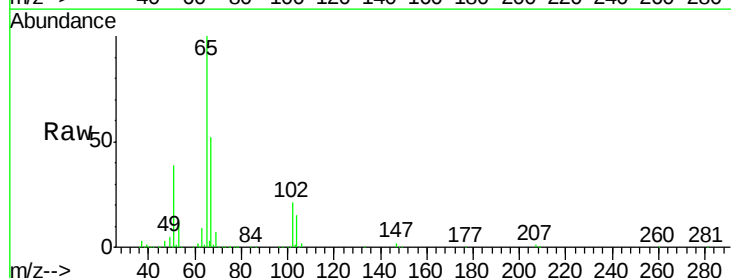
Acq: 31 Jul 2020 14:11

Tgt Ion: 65 Resp: 233861

Ion Ratio Lower Upper

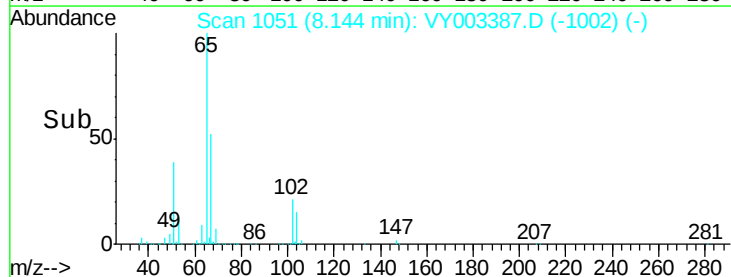
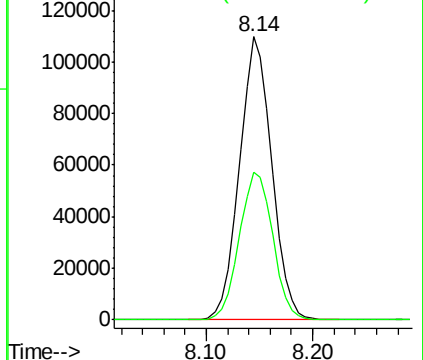
65 100

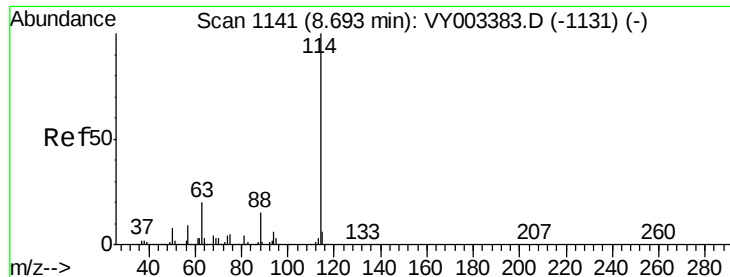
67 54.0 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

VY0731SBL01

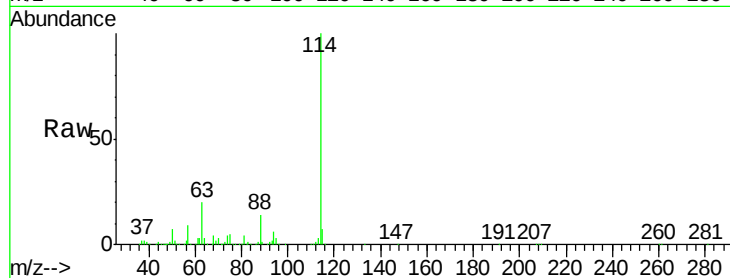
Tot Ion:114 Resp: 734016

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.6

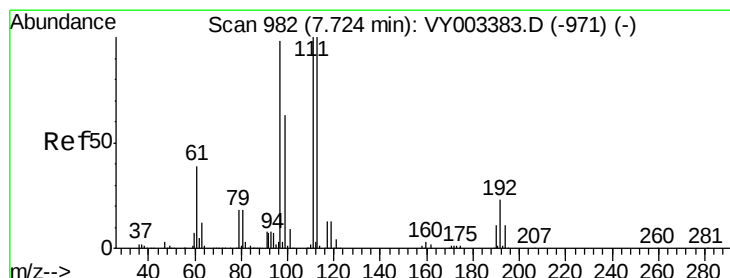
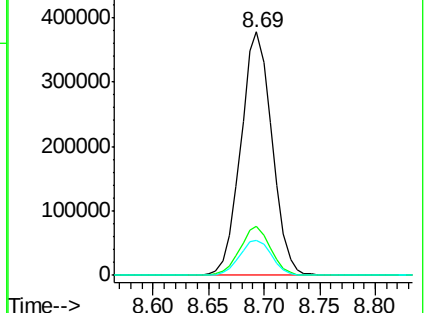
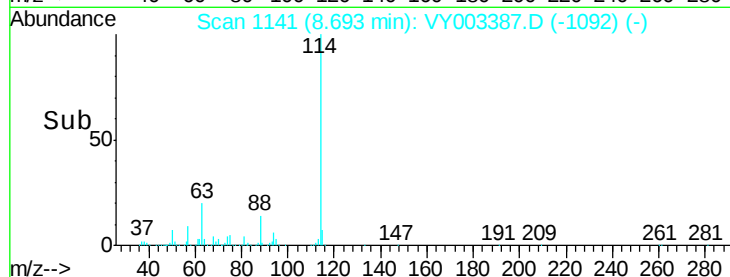
88 14.5 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 52.952 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.00 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

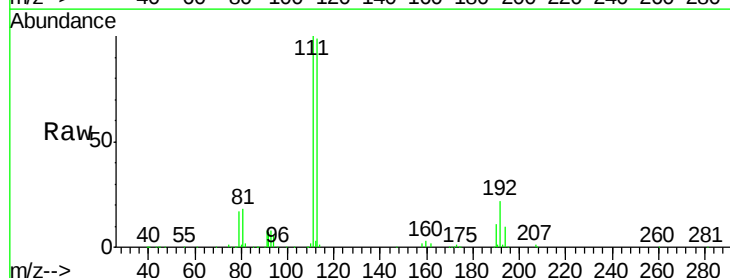
Tgt Ion:113 Resp: 228952

Ion Ratio Lower Upper

113 100

111 102.0 83.0 124.4

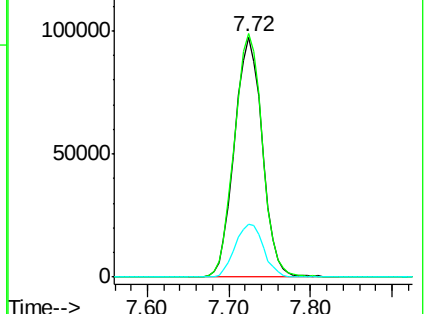
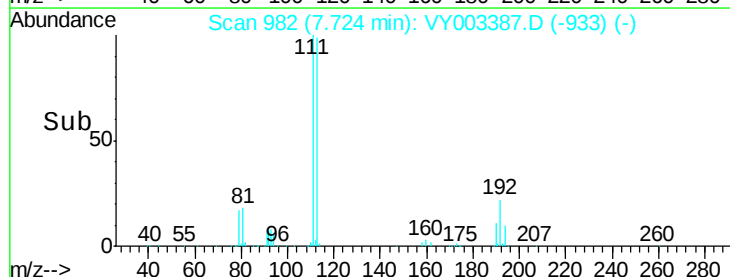
192 22.8 18.8 28.2

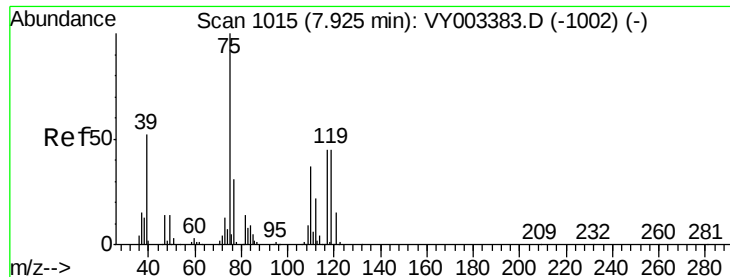


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.645 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.13 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

VY0731SBL01

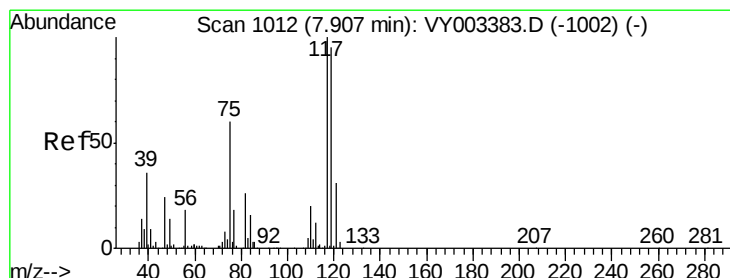
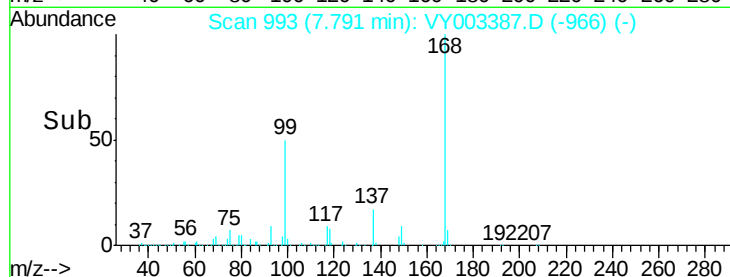
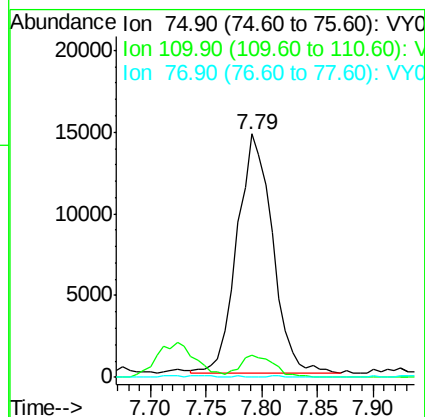
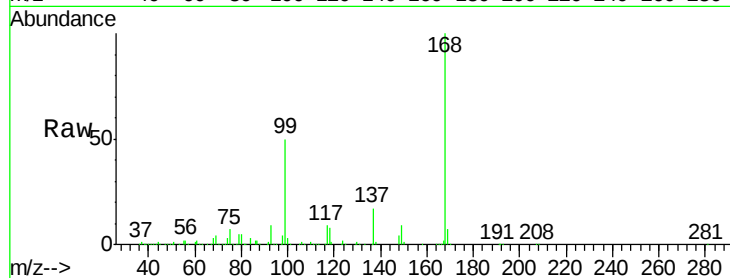
Tot Ion: 75 Resp: 32262

Ion Ratio Lower Upper

75 100

110 9.0 17.8 53.5#

77 0.1 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 6.126 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

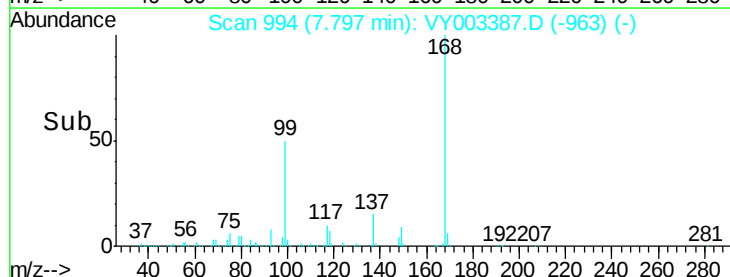
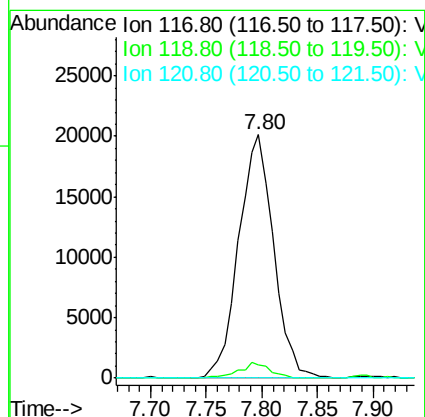
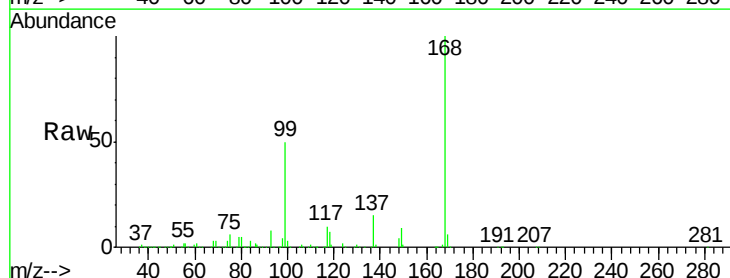
Tgt Ion: 117 Resp: 43788

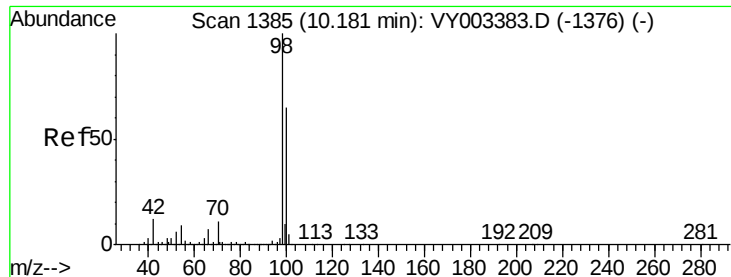
Ion Ratio Lower Upper

117 100

119 5.4 76.1 114.1#

121 0.0 24.5 36.7#





#50

Toluene-d8

Concen: 52.873 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

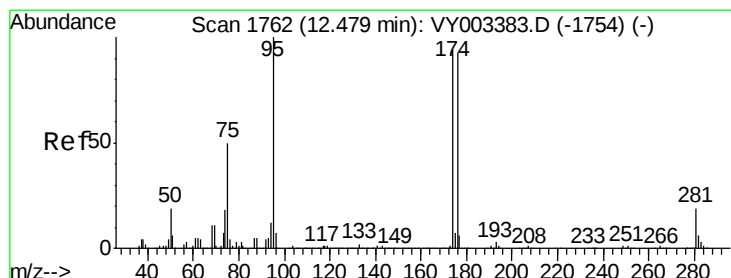
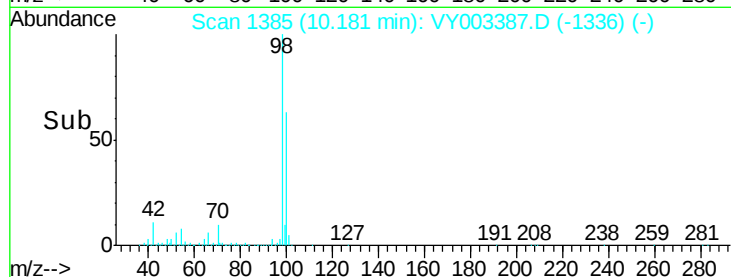
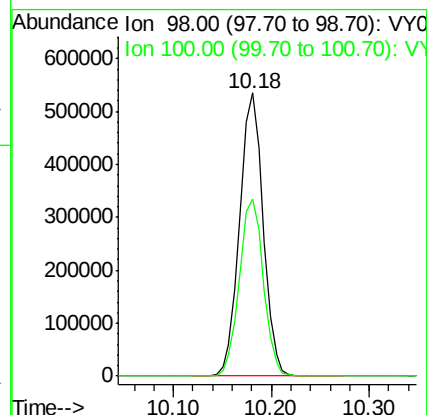
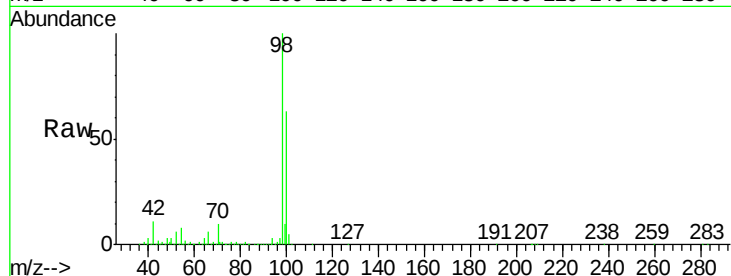
VY0731SBL01

Tot Ion: 98 Resp: 895199

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9



#62

4-Bromofluorobenzene

Concen: 50.625 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

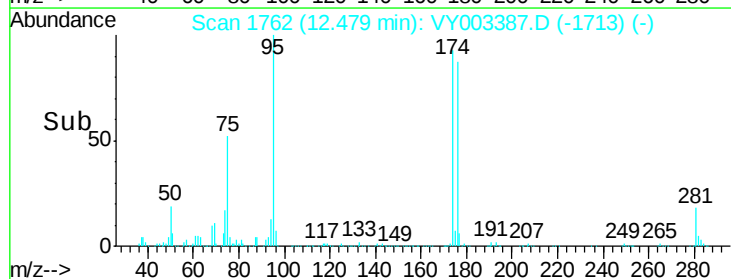
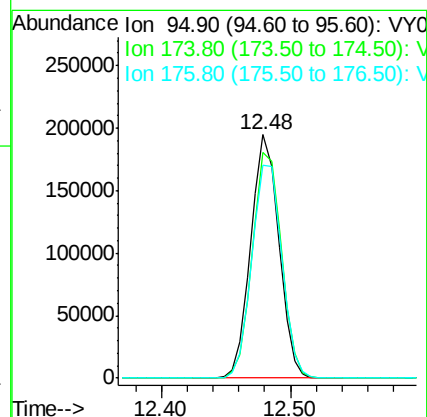
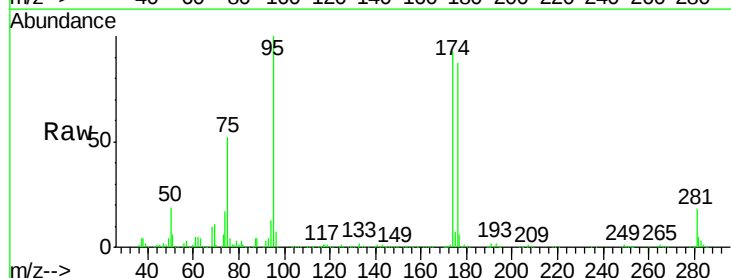
Tgt Ion: 95 Resp: 292864

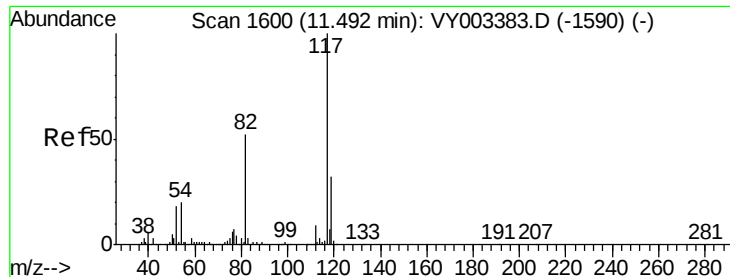
Ion Ratio Lower Upper

95 100

174 95.8 0.0 190.0

176 93.3 0.0 184.4

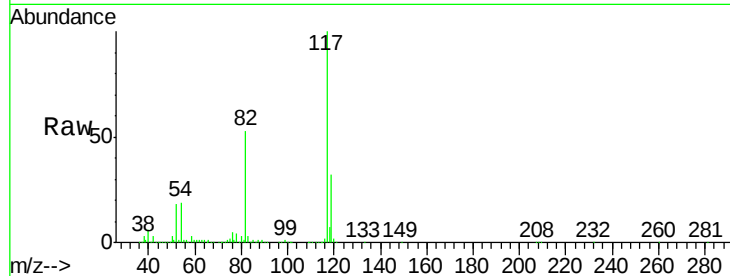




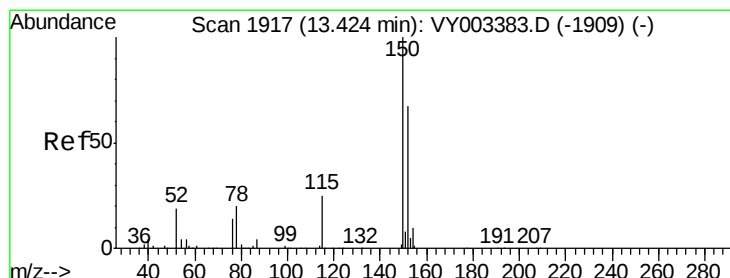
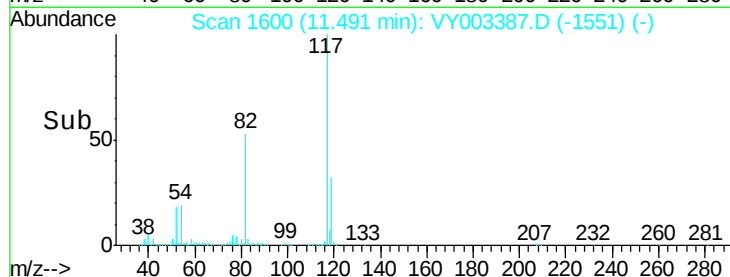
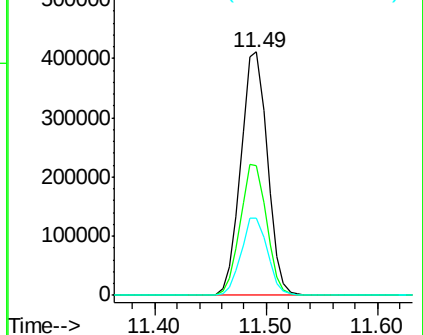
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY003387.D  
Acq: 31 Jul 2020 14:11

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0731SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.3  | 41.9  | 62.9  |
| 119     | 31.8  | 25.4  | 38.0  |

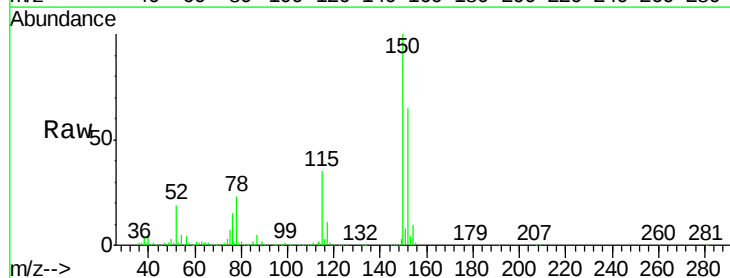


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

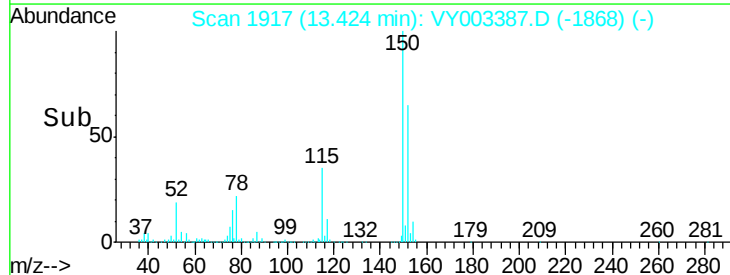
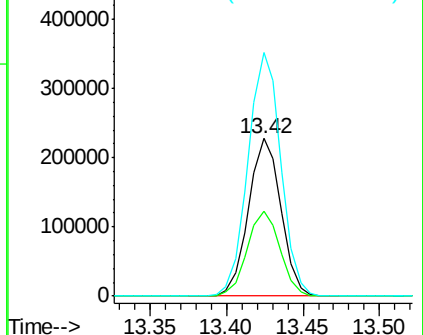


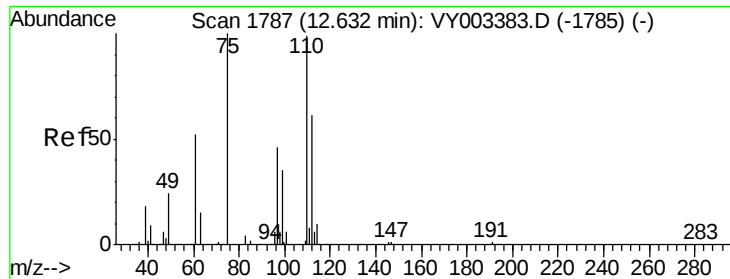
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY003387.D  
Acq: 31 Jul 2020 14:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.2  | 27.2  | 81.5  |
| 150     | 156.1 | 0.0   | 346.8 |



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: 49.991 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

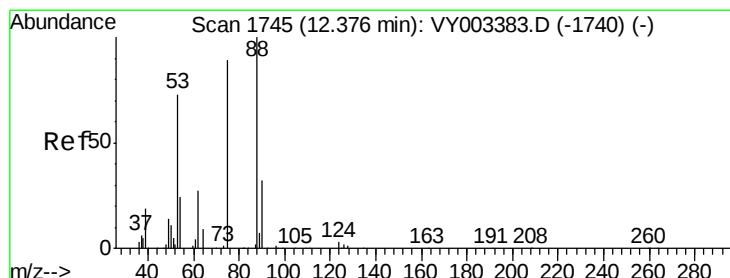
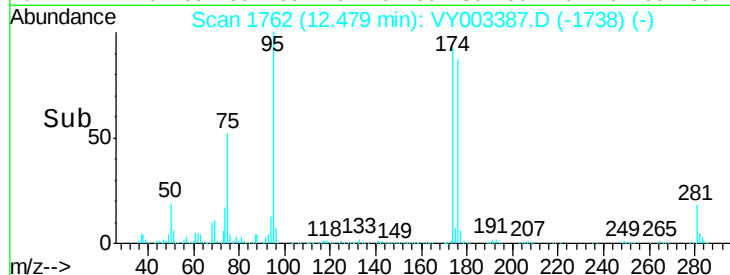
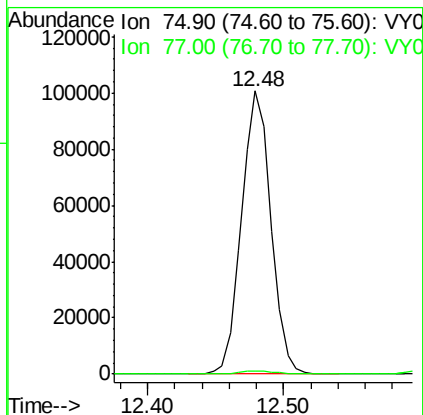
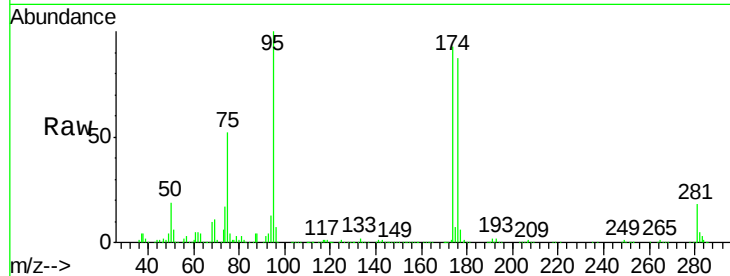
VY0731SBL01

Tot Ion: 75 Resp: 151559

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 94.546 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

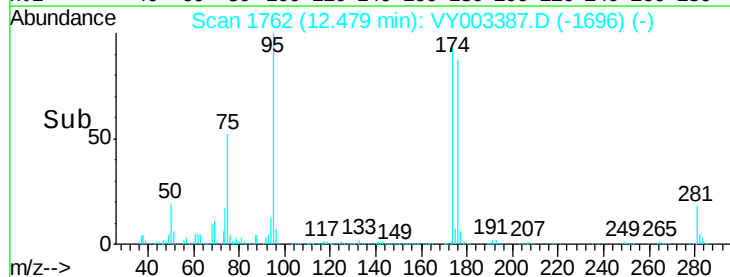
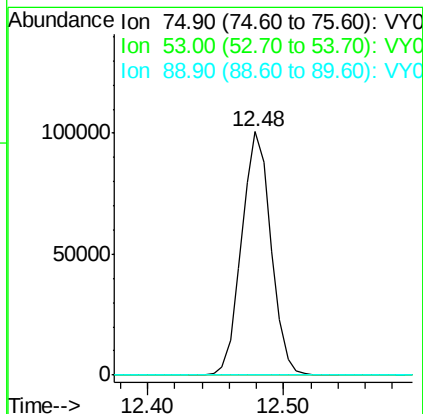
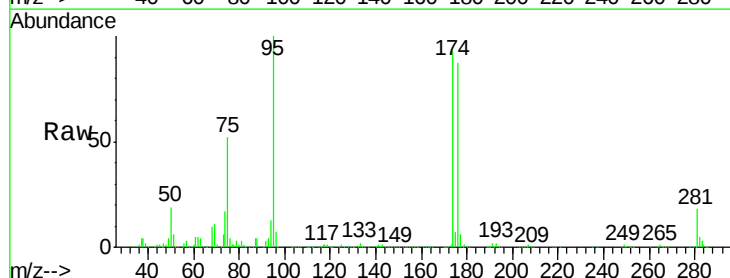
Tgt Ion: 75 Resp: 151559

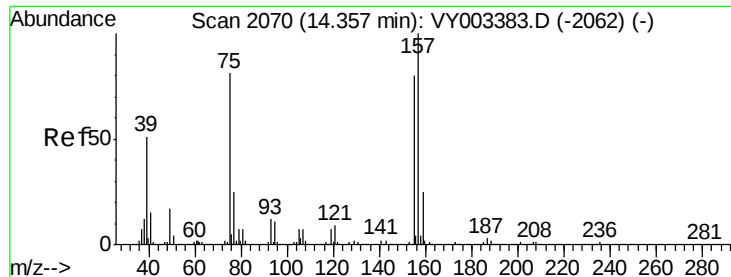
Ion Ratio Lower Upper

75 100

53 0.0 69.5 104.3#

89 0.3 33.8 50.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.122 ug/l

RT: 14.35 min Scan# 2069

Delta R.T. -0.01 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

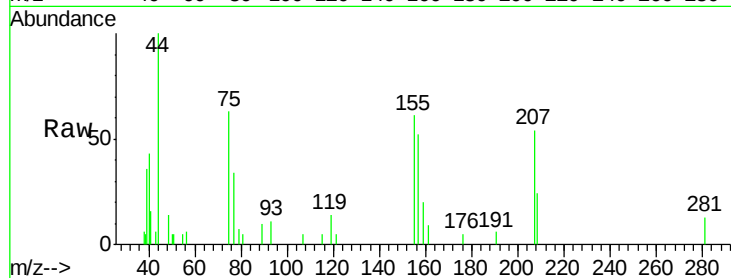
MSVOA\_Y

ClientSampled :

VY0731SBL01

Tot Ion: 75 Resp: 1477

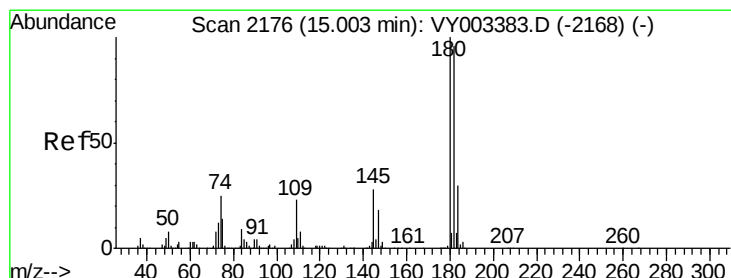
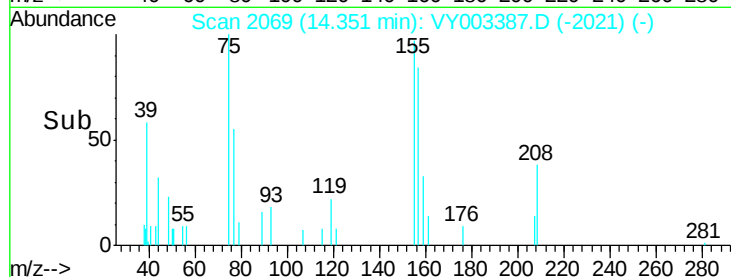
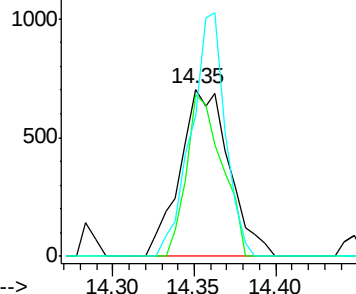
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 155 | 69.7  | 48.8  | 146.4 |
| 157 | 101.3 | 60.9  | 182.6 |



Abundance Ion 74.90 (74.60 to 75.60): VY003387.D (-2062) (-)

Ion 154.80 (154.50 to 155.50): VY003387.D (-2062) (-)

Ion 156.80 (156.50 to 157.50): VY003387.D (-2062) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.264 ug/l

RT: 15.00 min Scan# 2176

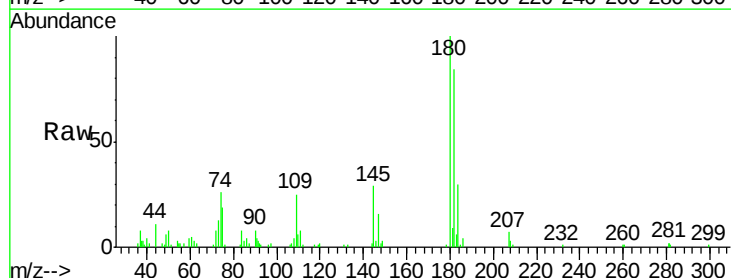
Delta R.T. -0.00 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Tgt Ion: 180 Resp: 14994

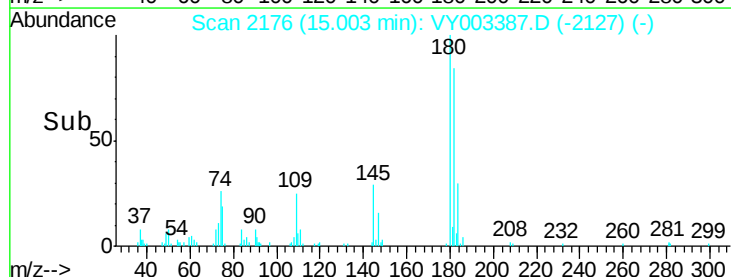
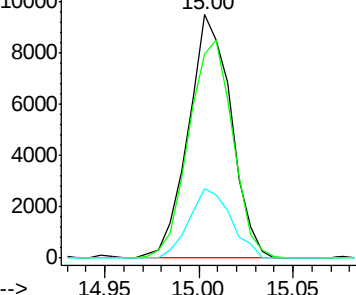
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 92.0  | 48.2  | 144.6 |
| 145 | 27.7  | 13.8  | 41.3  |

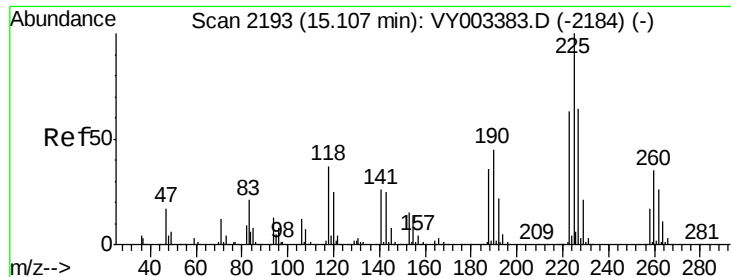


Abundance Ion 179.80 (179.50 to 180.50): VY003387.D (-2168) (-)

Ion 181.80 (181.50 to 182.50): VY003387.D (-2168) (-)

Ion 144.80 (144.50 to 145.50): VY003387.D (-2168) (-)





#94

Hexachlorobutadiene

Concen: 1.448 ug/l

RT: 15.11 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

VY0731SBL01

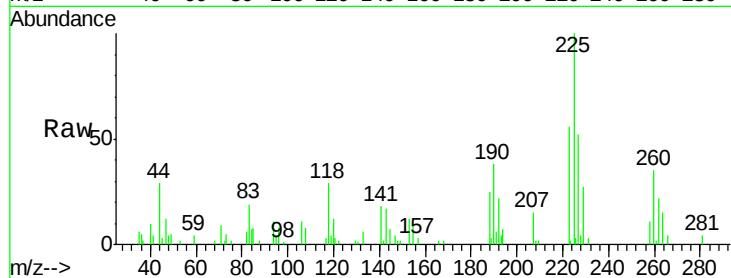
Tot Ion:225 Resp: 6351

Ion Ratio Lower Upper

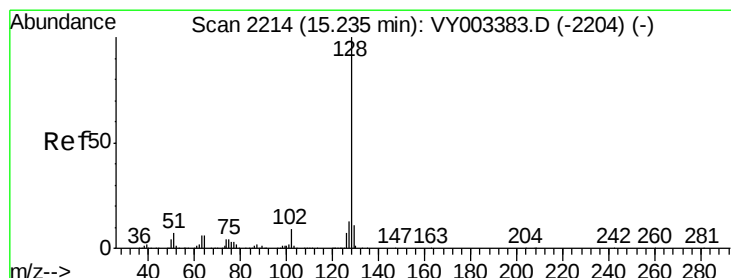
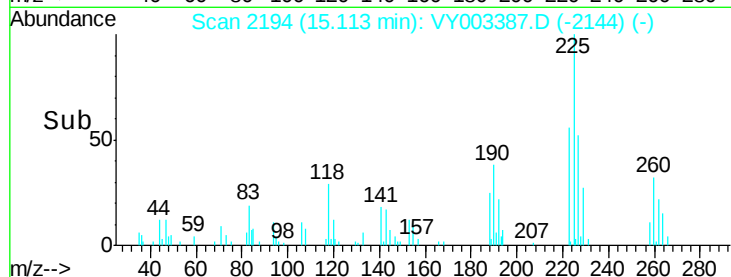
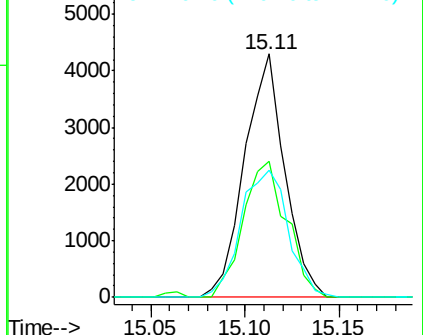
225 100

223 60.5 31.6 94.8

227 61.8 32.0 96.2



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.926 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

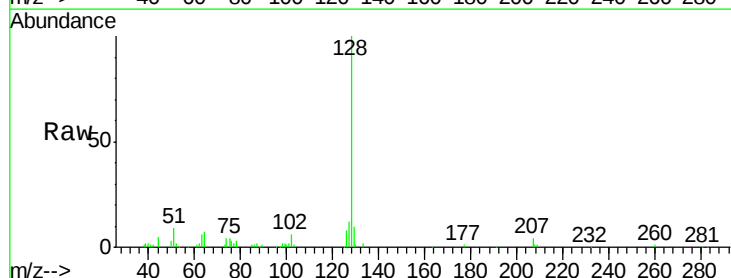
Tgt Ion:128 Resp: 32821

Ion Ratio Lower Upper

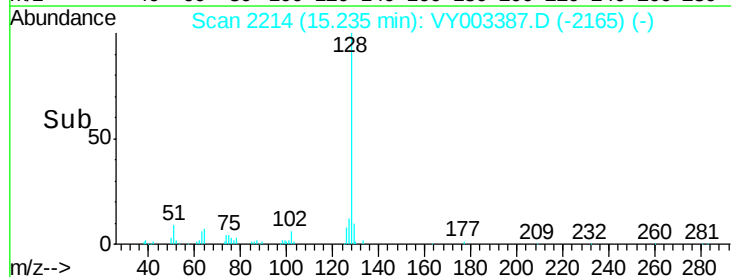
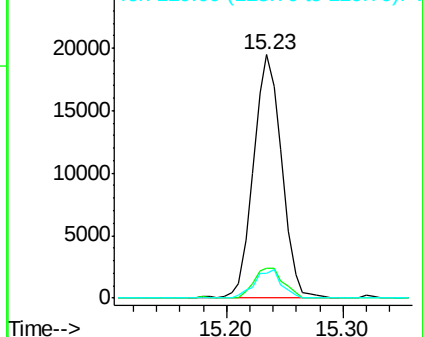
128 100

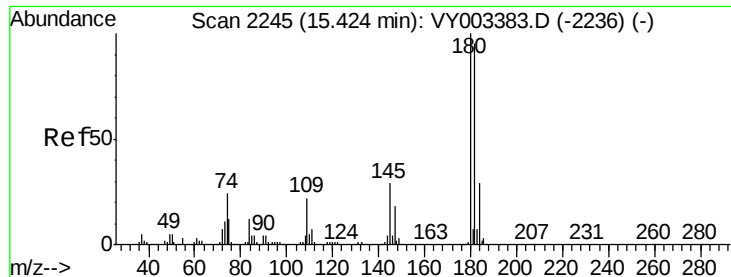
127 12.9 10.4 15.6

129 11.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 3.226 ug/l

RT: 15.42 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VY003387.D

Acq: 31 Jul 2020 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

VY0731SBL01

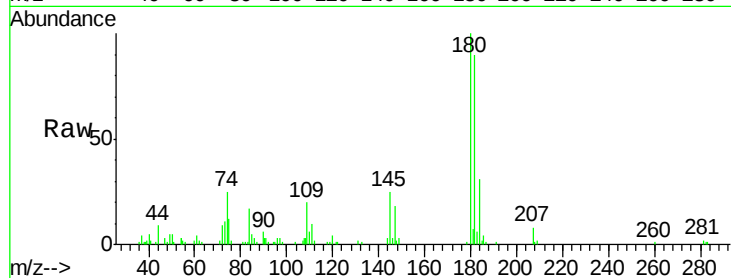
Tot Ion:180 Resp: 17283

Ion Ratio Lower Upper

180 100

182 92.8 47.4 142.2

145 28.7 14.5 43.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

