

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070620\
 Data File : VY003113.D
 Acq On : 06 Jul 2020 15:13
 Operator : SY/MD
 Sample : L3217-05
 Misc : 5.13G/5ML/MSVOA Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 E3-41-BOILER-ROOM

Quant Time: Jul 07 07:04:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y062920S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 30 04:11:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	231277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	362865	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	262072	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	68814	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	115296	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
35) Dibromofluoromethane	7.72	113	119162	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	
50) Toluene-d8	10.18	98	402887	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
62) 4-Bromofluorobenzene	12.48	95	86457	29.13	ug/l	0.00
Spiked Amount			Recovery	=	58.26%	

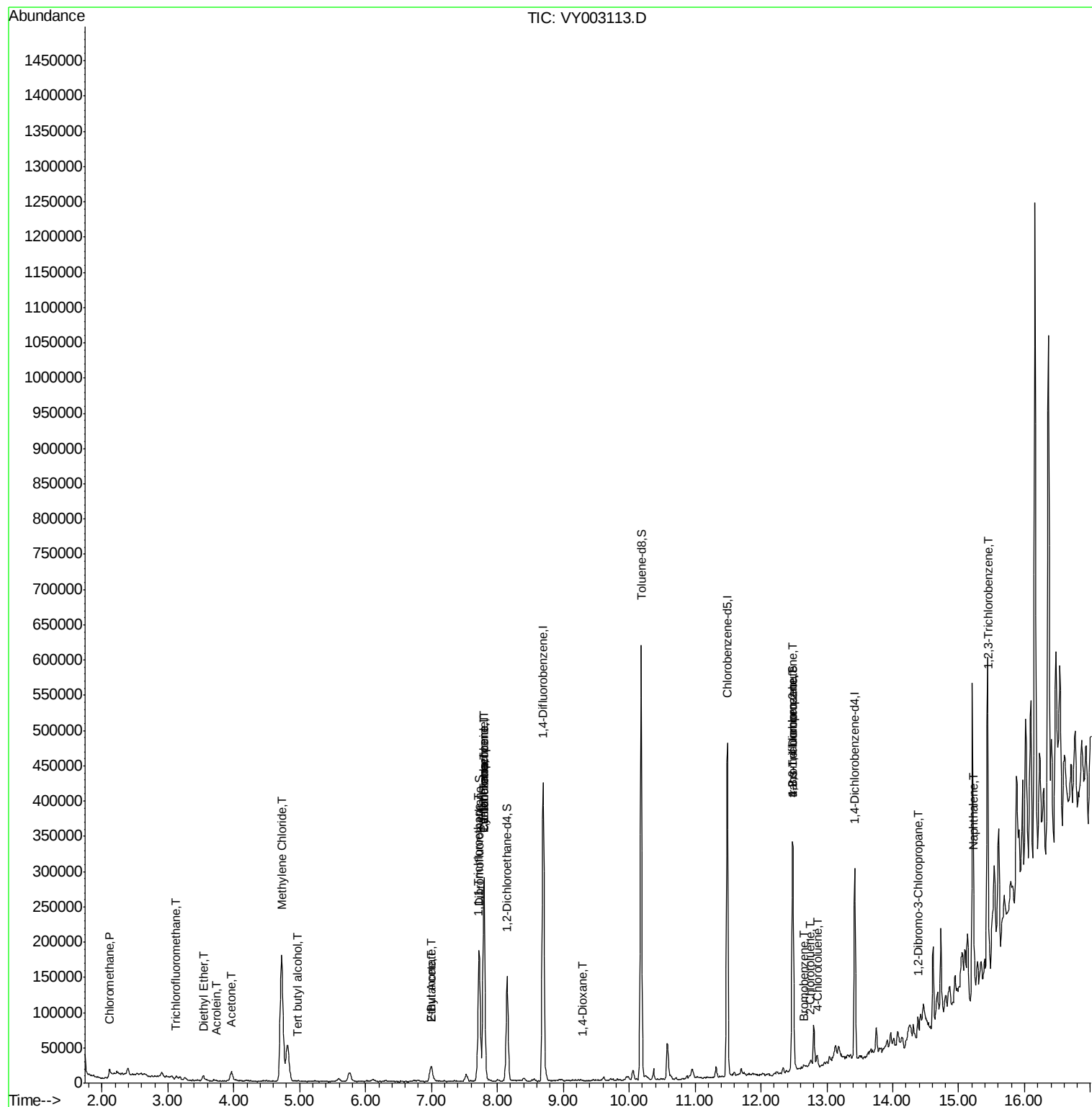
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	5019	1.957	ug/l	88
7) Trichlorofluoromethane	3.13	101	5678	1.608	ug/l	96
8) Diethyl Ether	3.54	74	3864	3.192	ug/l	89
11) Tert butyl alcohol	4.96	59	1321	5.643	ug/l #	73
13) Acrolein	3.73	56	563	2.678	ug/l #	64
16) Acetone	3.96	43	24913	45.986	ug/l #	87
20) Methylene Chloride	4.72	84	141920	60.115	ug/l	93
25) 2-Butanone	7.00	43	10640	12.364	ug/l	99
31) Cyclohexane	7.79	56	4893	1.211	ug/l #	3
32) 1,1,1-Trichloroethane	7.71	97	19120	5.156	ug/l	98
36) 1,1-Dichloropropene	7.80	75	16458	4.709	ug/l #	51
37) Ethyl Acetate	7.00	43	10640	5.063	ug/l #	84
38) Carbon Tetrachloride	7.80	117	21391	5.882	ug/l #	16
49) 1,4-Dioxane	9.30	88	47	2.678	ug/l #	23
76) 1,2,3-Trichloropropane	12.48	75	43687	64.147	ug/l #	100
77) Bromobenzene	12.66	156	2978	2.579	ug/l #	1
79) 2-Chlorotoluene	12.75	91	5938	1.964	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.48	75	43687	124.803	ug/l #	13
82) 4-Chlorotoluene	12.85	91	6615	2.102	ug/l	85
92) 1,2-Dibromo-3-Chloropropan	14.39	75	313	1.945	ug/l	71
95) Naphthalene	15.23	128	5261	2.004	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.45	180	1536	1.231	ug/l #	1

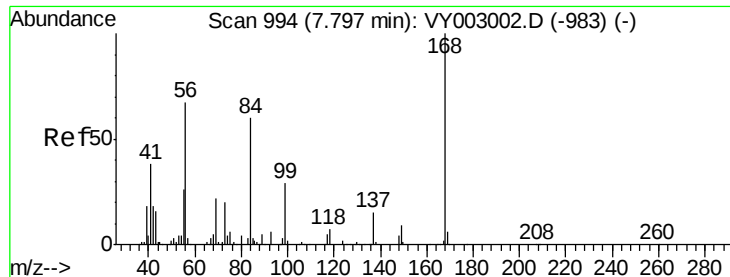
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

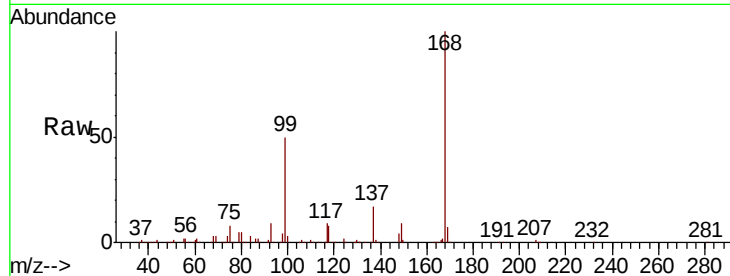
E3-41-BOILER-ROOM

Tot Ion:168 Resp: 231277

Ion Ratio Lower Upper

168 100

99 50.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003113.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003113.D (-945) (-)

7.80

100000

80000

60000

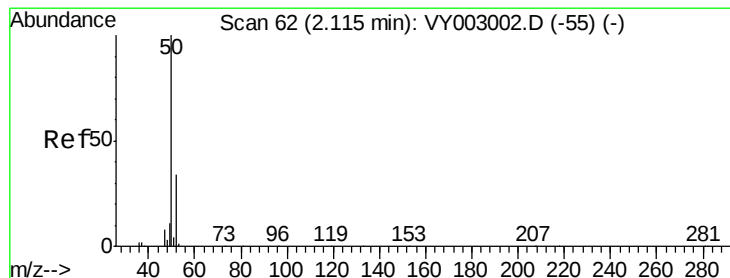
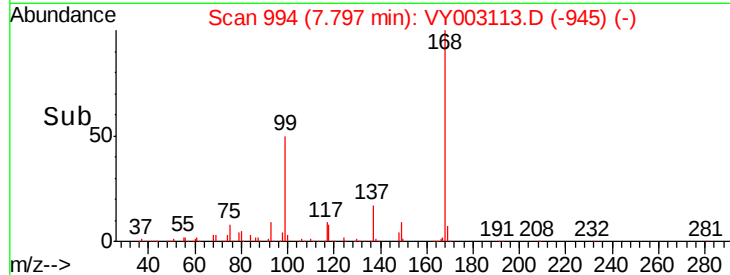
40000

20000

0

7.70 7.80 7.90

Time-->



#3

Chloromethane

Concen: 1.957 ug/l

RT: 2.11 min Scan# 61

Delta R.T. -0.01 min

Lab File: VY003113.D

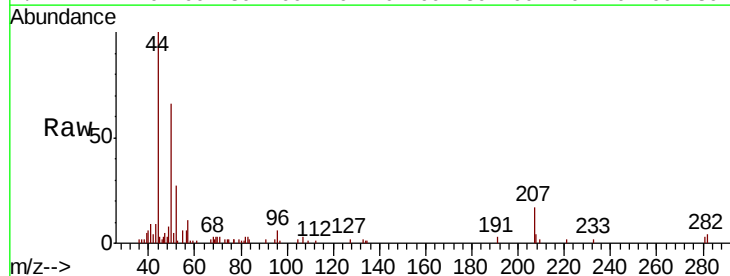
Acq: 06 Jul 2020 15:13

Tgt Ion: 50 Resp: 5019

Ion Ratio Lower Upper

50 100

52 40.3 26.9 40.3



Abundance Ion 49.90 (49.60 to 50.60): VY003113.D (-13) (-)

Ion 51.90 (51.60 to 52.60): VY003113.D (-13) (-)

2.11

4000

3000

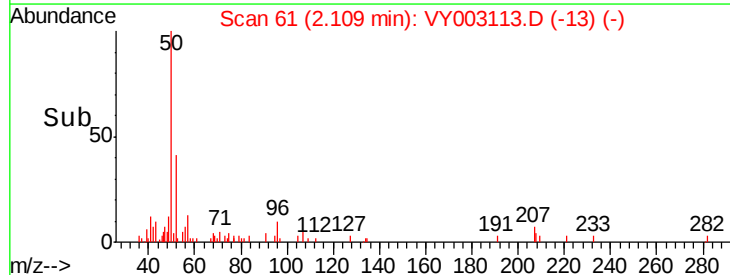
2000

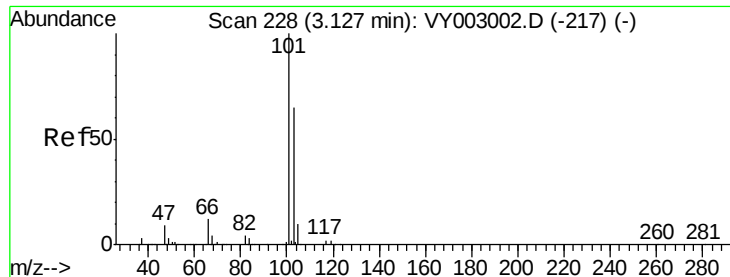
1000

0

2.05 2.10 2.15 2.20

Time-->





#7

Trichlorofluoromethane

Concen: 1.608 ug/l

RT: 3.13 min Scan# 228

Delta R.T. -0.00 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

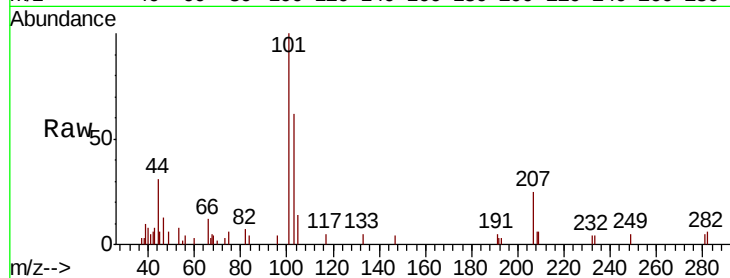
E3-41-BOILER-ROOM

Tot Ion:101 Resp: 5678

Ion Ratio Lower Upper

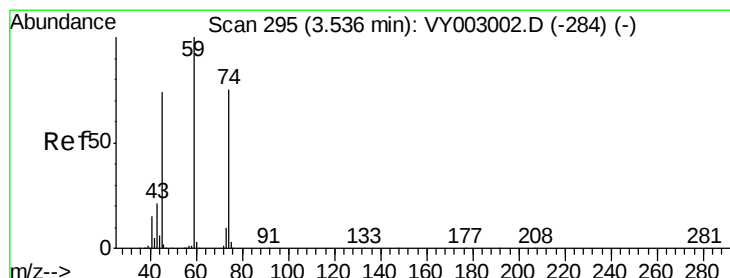
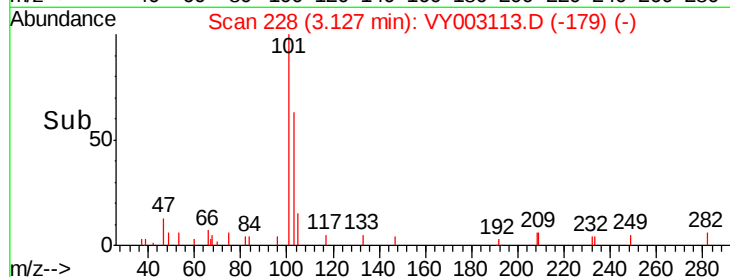
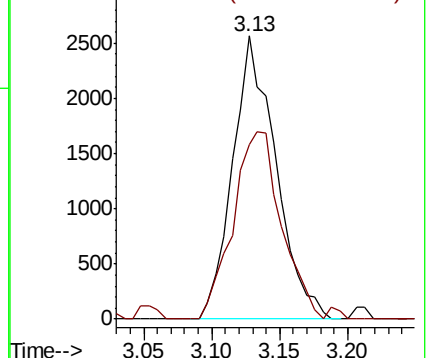
101 100

103 61.5 51.6 77.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 3.192 ug/l

RT: 3.54 min Scan# 296

Delta R.T. 0.01 min

Lab File: VY003113.D

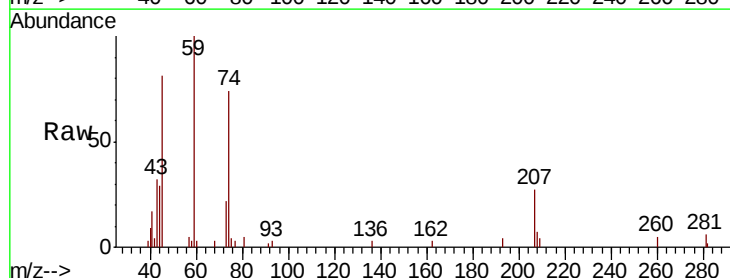
Acq: 06 Jul 2020 15:13

Tgt Ion: 74 Resp: 3864

Ion Ratio Lower Upper

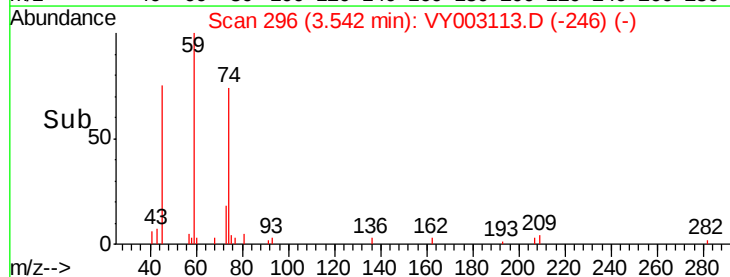
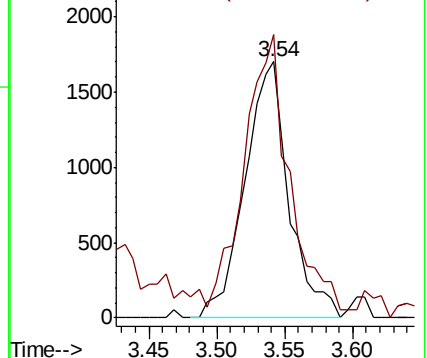
74 100

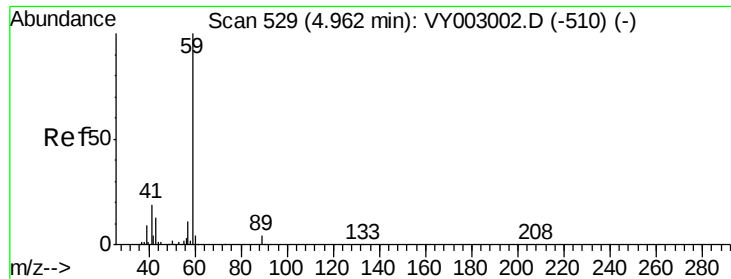
45 109.7 49.3 147.9



Abundance Ion 74.00 (73.70 to 74.70): VY0

Ion 45.00 (44.70 to 45.70): VY0

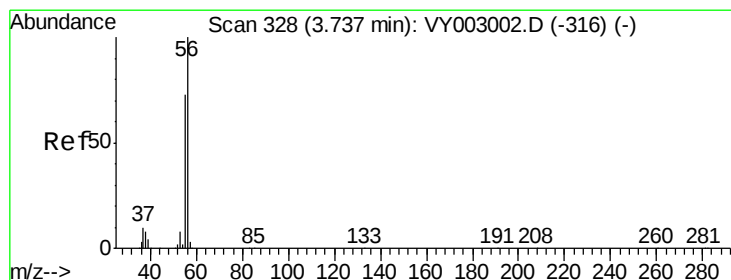
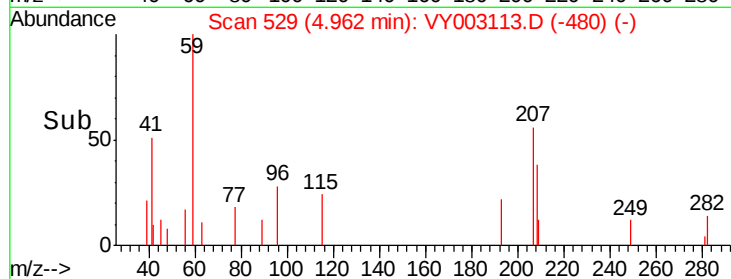
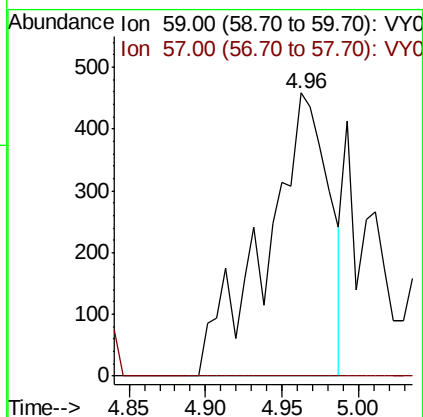
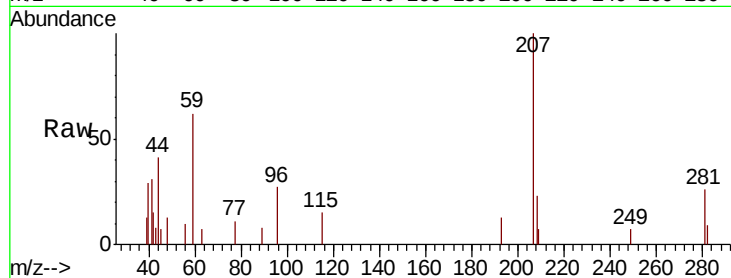




#11
Tert butyl alcohol
Concen: 5.643 ug/l
RT: 4.96 min Scan# 529
Delta R.T. 0.00 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

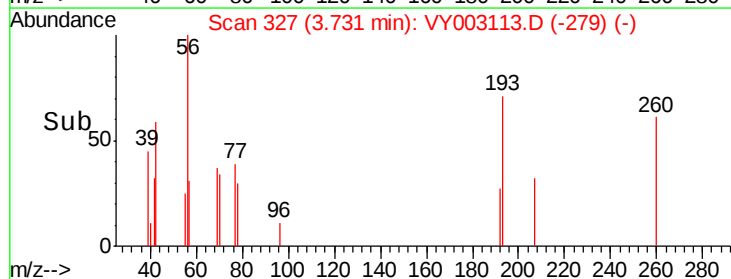
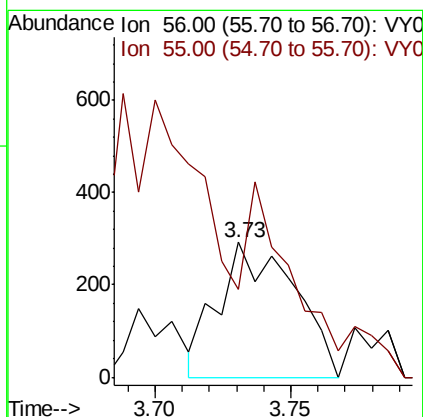
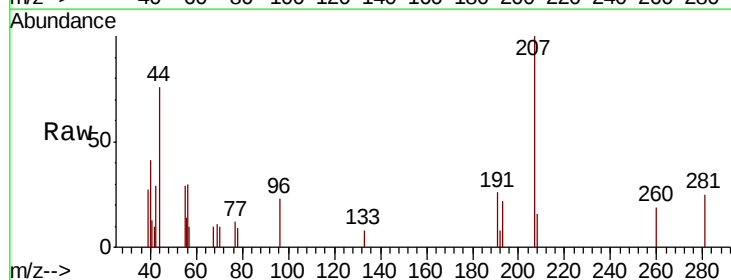
Instrument :
MSVOA_Y
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E3-41-BOILER-ROOM

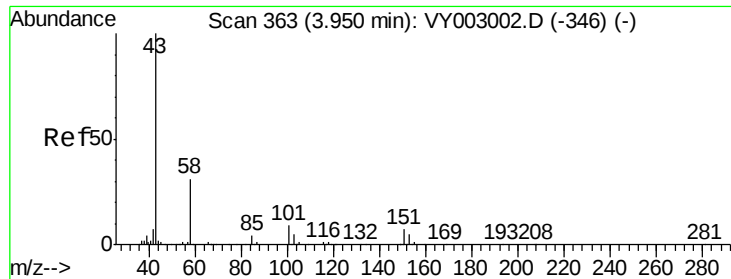
Tot Ion: 59 Resp: 1321
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#13
Acrolein
Concen: 2.678 ug/l
RT: 3.73 min Scan# 327
Delta R.T. -0.01 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

Tgt Ion: 56 Resp: 563
Ion Ratio Lower Upper
56 100
55 100.4 56.4 84.6#





#16

Acetone

Concen: 45.986 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

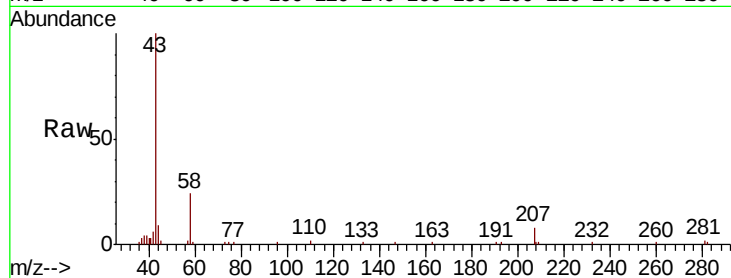
E3-41-BOILER-ROOM

Tot Ion: 43 Resp: 24913

Ion Ratio Lower Upper

43 100

58 23.6 24.7 37.1#



Abundance Ion 43.00 (42.70 to 43.70): VY003113.D (-314) (-)

Ion 58.00 (57.70 to 58.70): VY003113.D (-314) (-)

3.96

10000

8000

6000

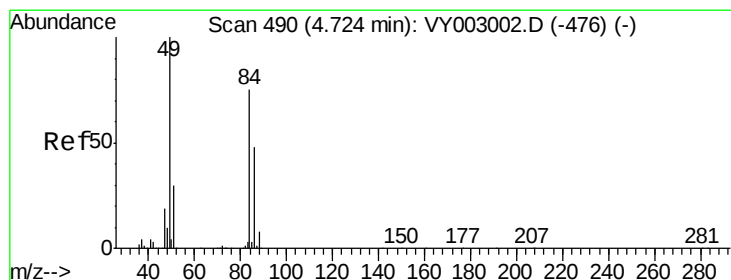
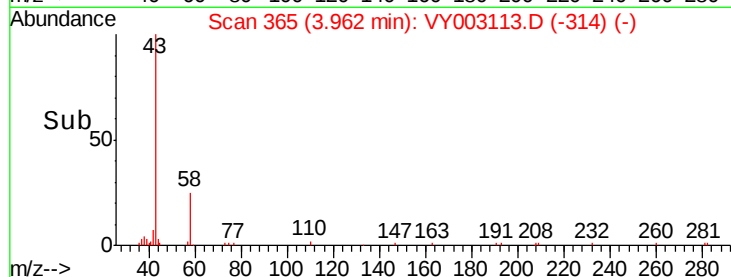
4000

2000

0

Time-->

3.80 3.90 4.00 4.10



#20

Methylene Chloride

Concen: 60.115 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.00 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Tgt Ion: 84 Resp: 141920

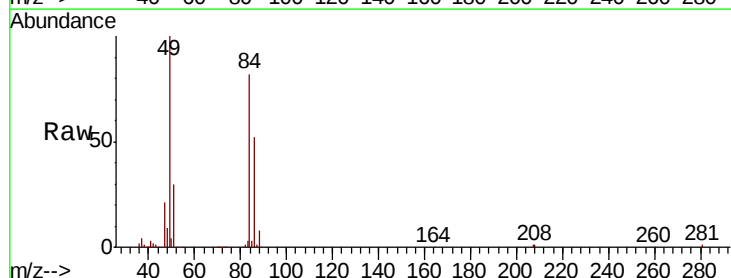
Ion Ratio Lower Upper

84 100

49 121.4 106.8 160.2

51 36.7 32.0 48.0

86 63.2 51.4 77.2



Abundance Ion 83.90 (83.60 to 84.60): VY003113.D (-441) (-)

Ion 48.90 (48.60 to 49.60): VY003113.D (-441) (-)

Ion 50.90 (50.60 to 51.60): VY003113.D (-441) (-)

Ion 85.90 (85.60 to 86.60): VY003113.D (-441) (-)

4.72

80000

60000

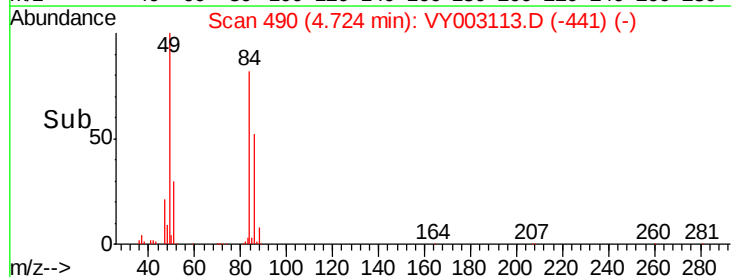
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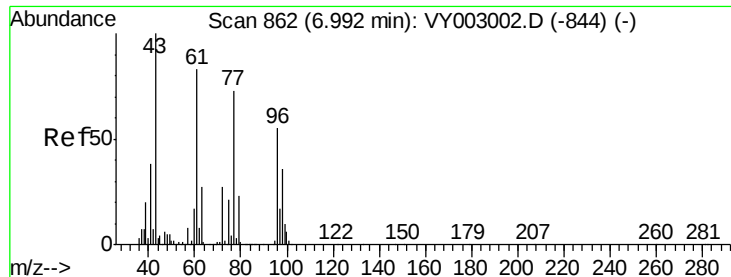
20000

0

Time-->

4.60 4.70 4.80

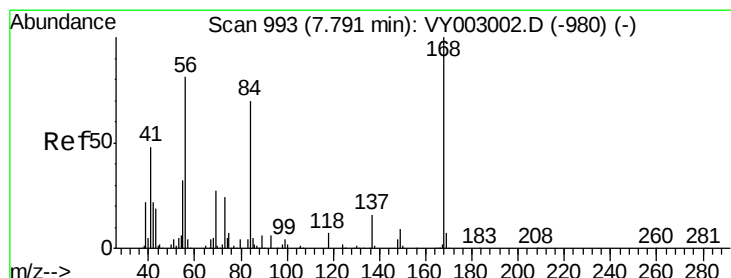
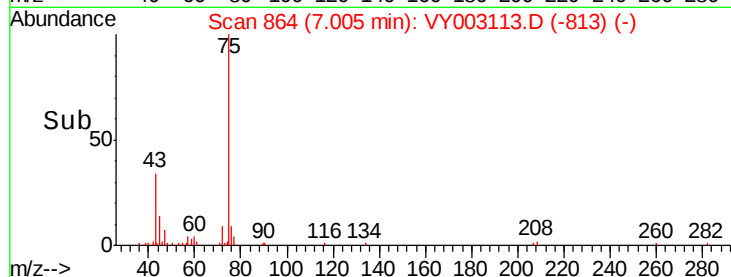
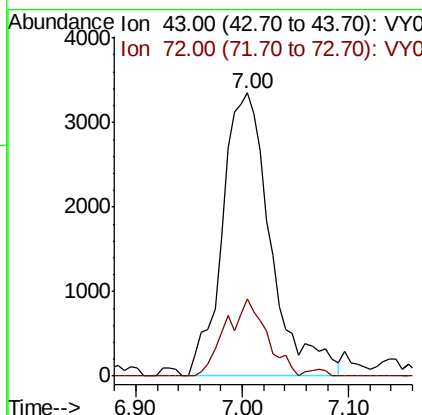
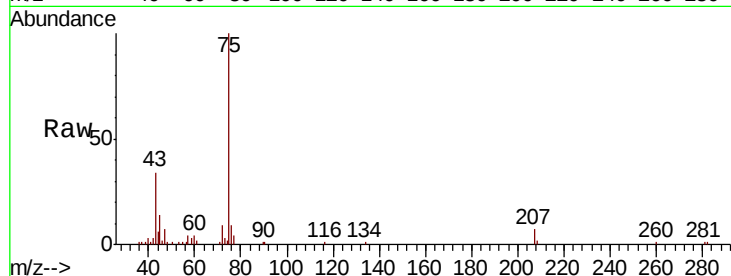




#25
2-Butanone
Concen: 12.364 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.01 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

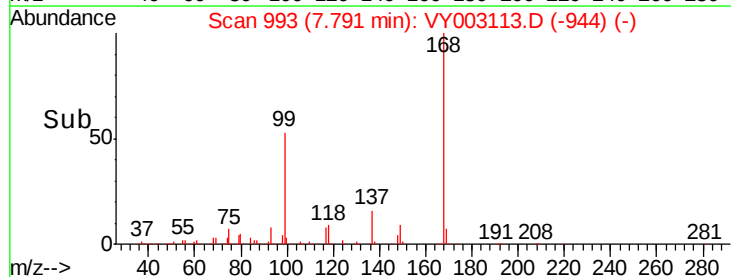
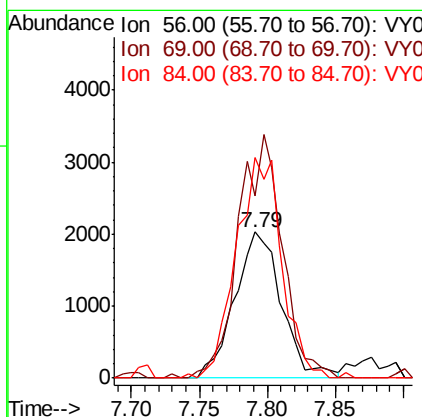
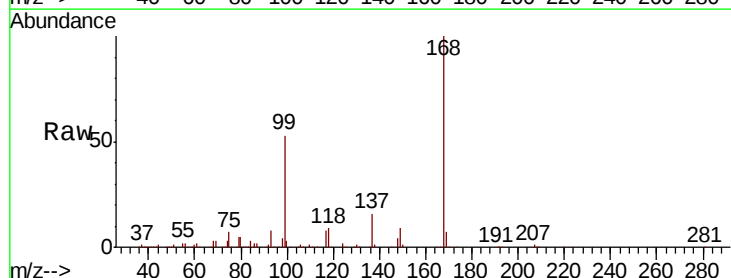
Instrument :
MSVOA_Y
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E3-41-BOILER-ROOM

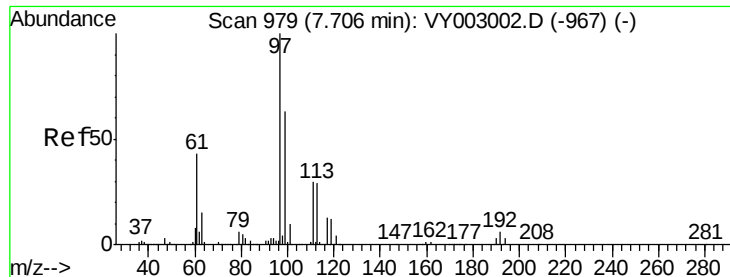
Tot Ion: 43 Resp: 10640
Ion Ratio Lower Upper
43 100
72 27.5 21.4 32.0



#31
Cyclohexane
Concen: 1.211 ug/l
RT: 7.79 min Scan# 993
Delta R.T. -0.00 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

Tgt Ion: 56 Resp: 4893
Ion Ratio Lower Upper
56 100
69 125.3 27.0 40.4#
84 151.1 68.1 102.1#





#32

1,1,1-Trichloroethane

Concen: 5.156 ug/l

RT: 7.71 min Scan# 980

Delta R.T. 0.01 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-BOILER-ROOM

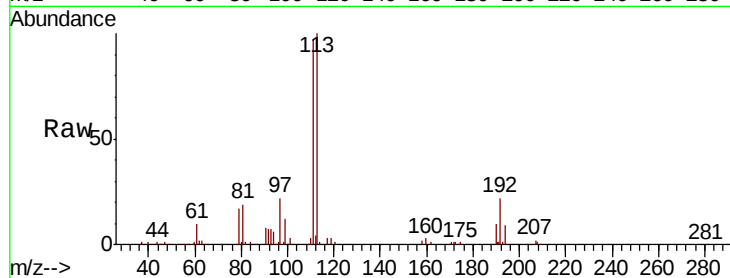
Tot Ion: 97 Resp: 19120

Ion Ratio Lower Upper

97 100

99 64.4 51.4 77.2

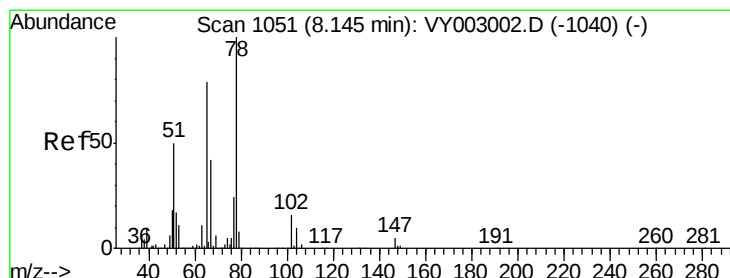
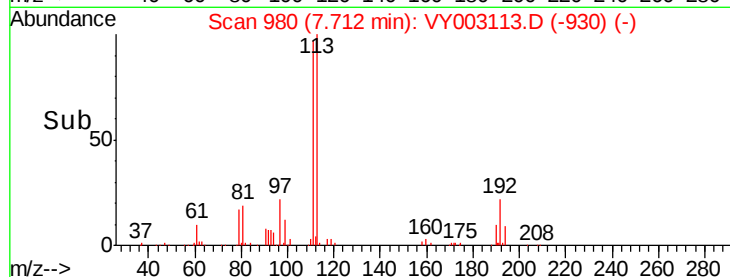
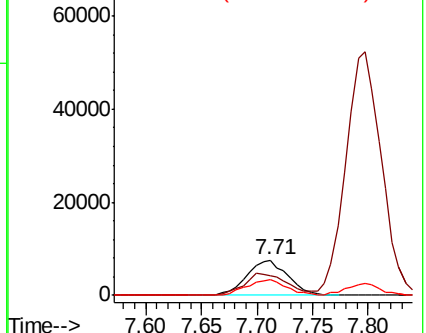
61 45.1 33.9 50.9



Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Ion 60.90 (60.60 to 61.60): VY0



#33

1,2-Dichloroethane-d4

Concen: 50.193 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003113.D

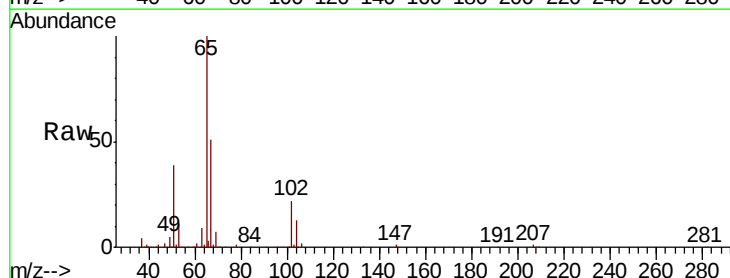
Acq: 06 Jul 2020 15:13

Tgt Ion: 65 Resp: 115296

Ion Ratio Lower Upper

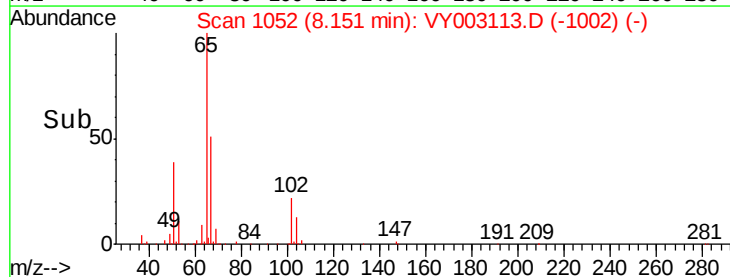
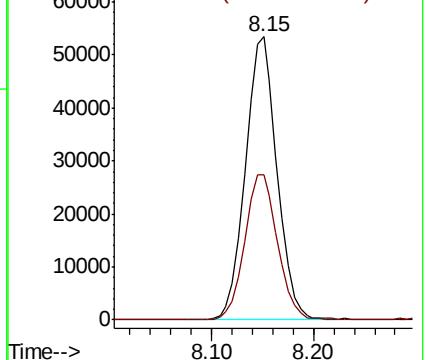
65 100

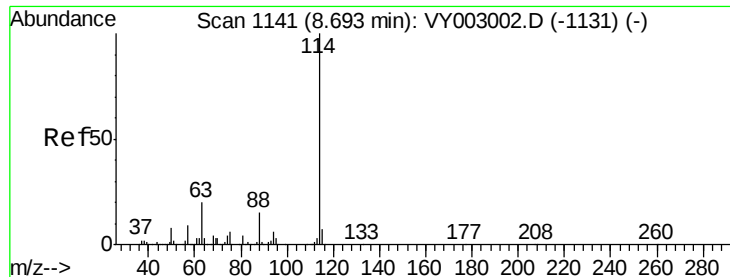
67 53.2 0.0 105.6



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: VY003113.D

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E3-41-BOILER-ROOM

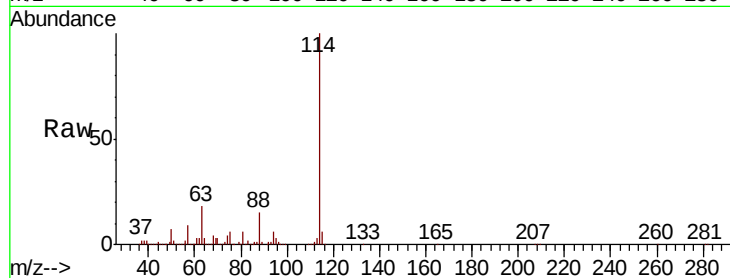
Tot Ion:114 Resp: 362865

Ion Ratio Lower Upper

114 100

63 18.2 0.0 40.6

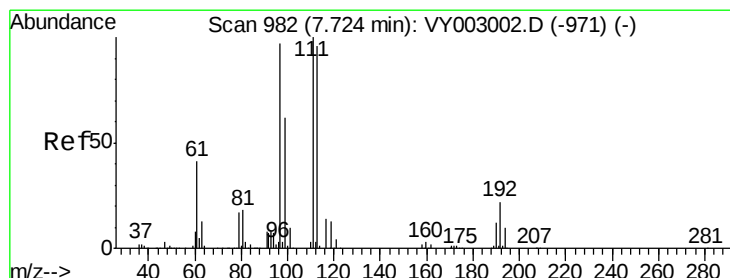
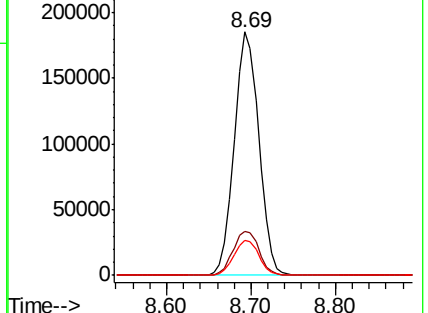
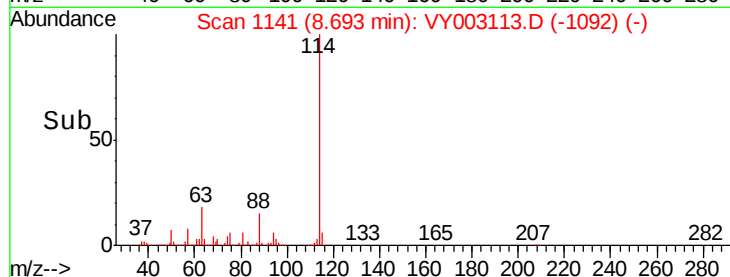
88 14.5 0.0 30.0



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: 52.642 ug/l

RT: 7.72 min Scan# 982

Delta R.T. 0.00 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

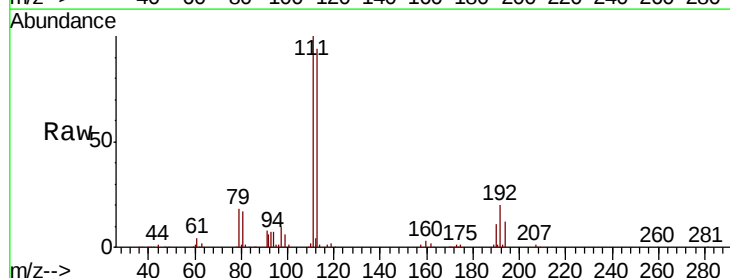
Tgt Ion:113 Resp: 119162

Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

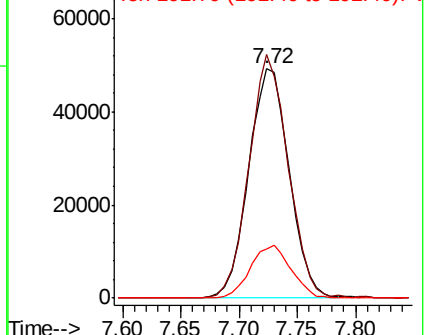
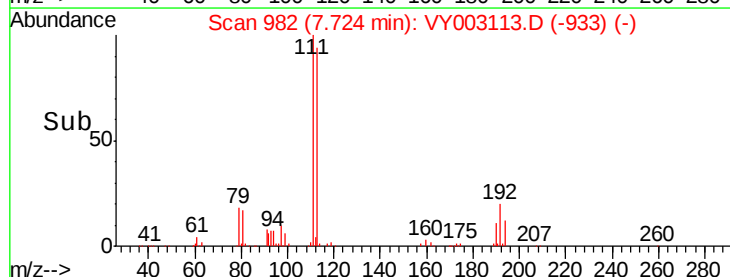
192 23.2 18.1 27.1

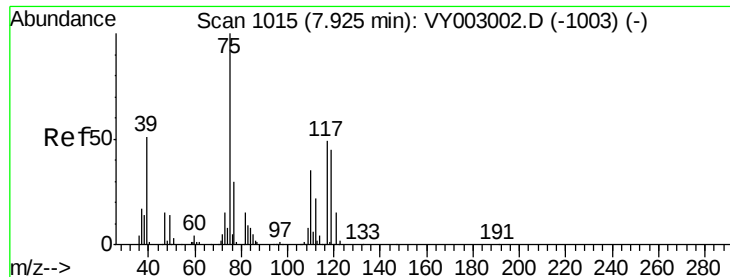


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

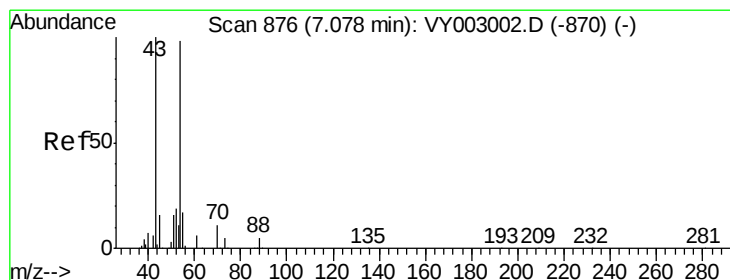
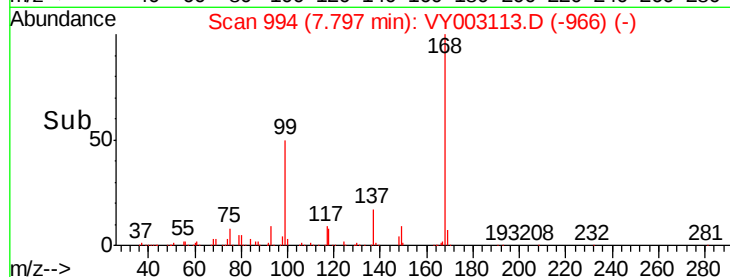
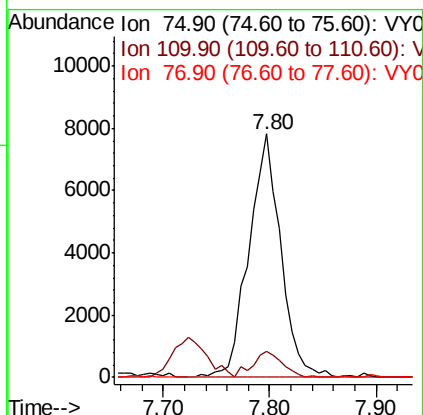
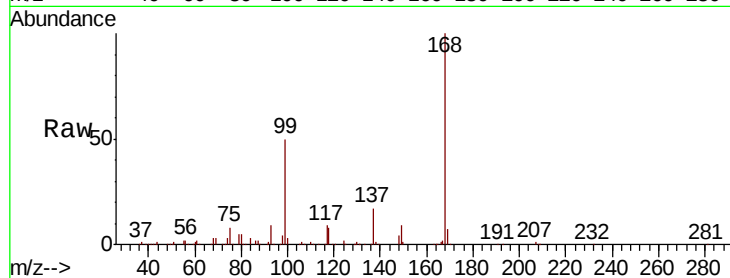




#36
 1,1-Dichloropropene
 Concen: 4.709 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY003113.D
 Acq: 06 Jul 2020 15:13

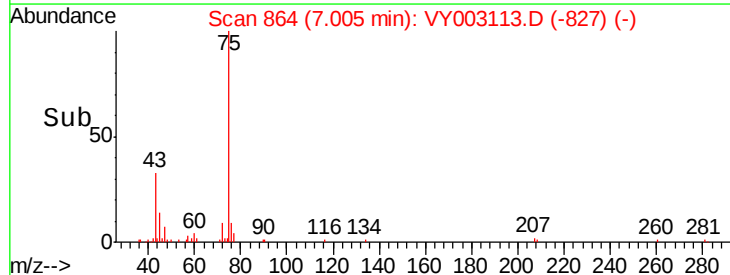
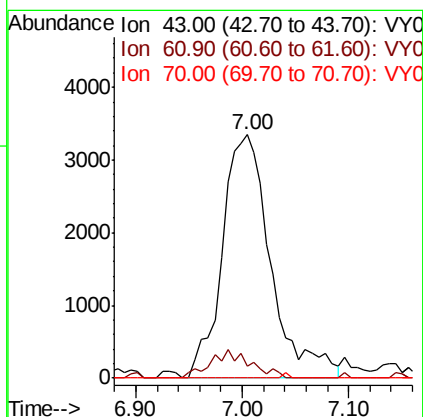
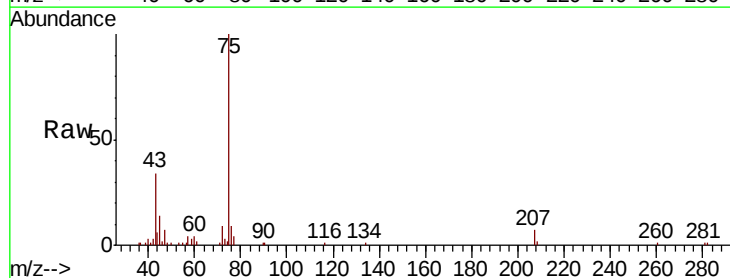
Instrument :
 MSVOA_Y
 ClientSampleId :
 E3-41-BOILER-ROOM

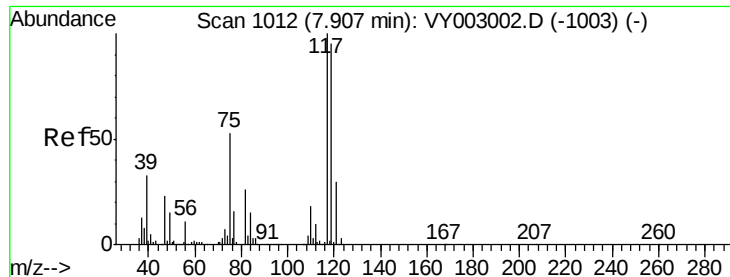
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	17.1	51.2#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 5.063 ug/l
 RT: 7.00 min Scan# 864
 Delta R.T. -0.07 min
 Lab File: VY003113.D
 Acq: 06 Jul 2020 15:13

Tgt Ion	Ratio	Lower	Upper
43	100		
61	9.4	10.4	15.6#
70	0.0	7.7	11.5#





#38

Carbon Tetrachloride

Concen: 5.882 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-BOILER-ROOM

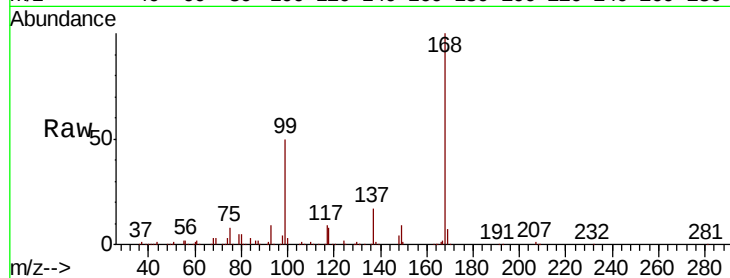
Tot Ion:117 Resp: 21391

Ion Ratio Lower Upper

117 100

119 4.0 75.7 113.5#

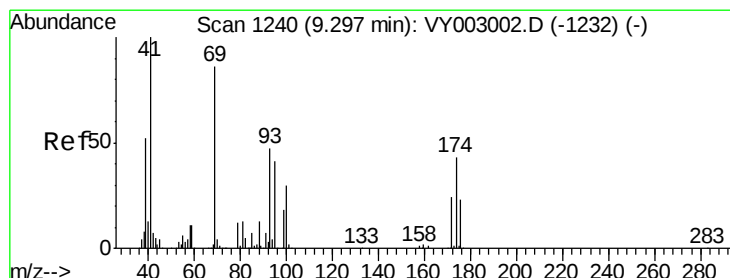
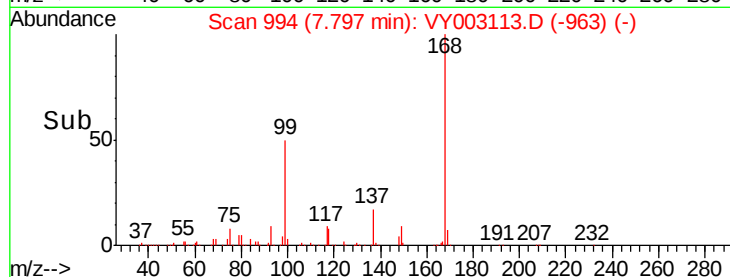
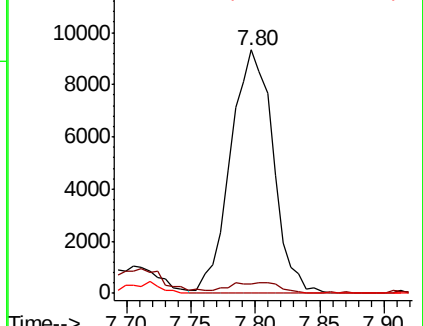
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 2.678 ug/l

RT: 9.30 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

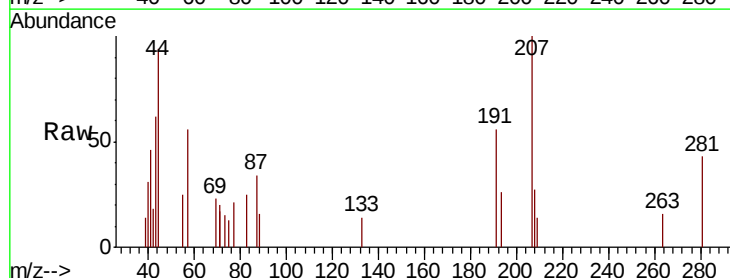
Tgt Ion: 88 Resp: 47

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

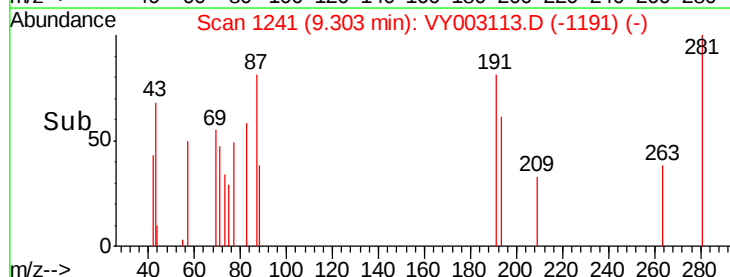
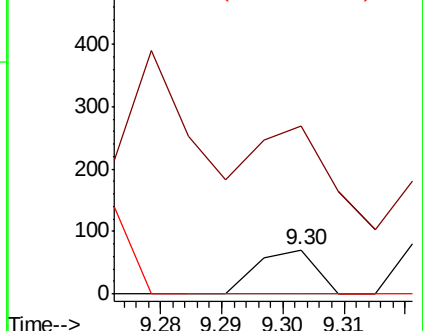
58 0.0 56.7 85.1#

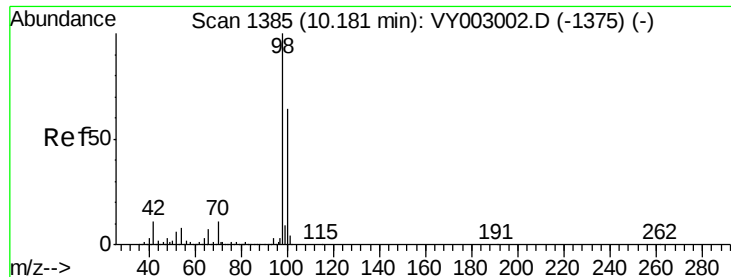


Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#50

Toluene-d8

Concen: 47.775 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

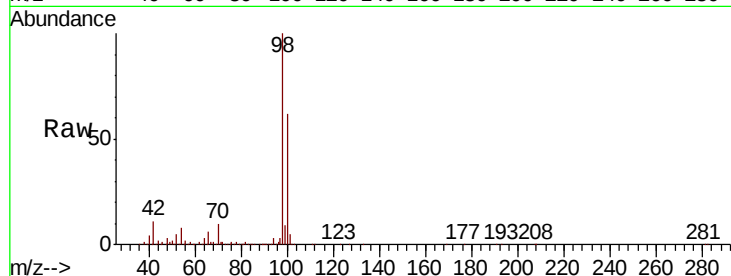
E3-41-BOILER-ROOM

Tot Ion: 98 Resp: 402887

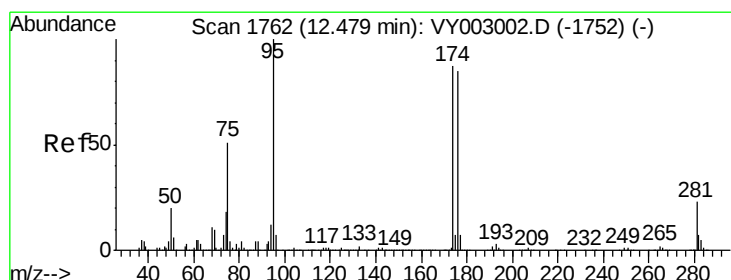
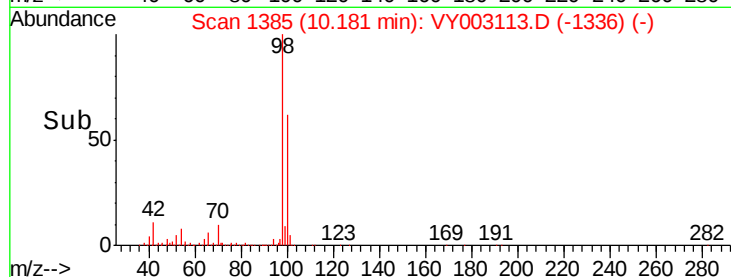
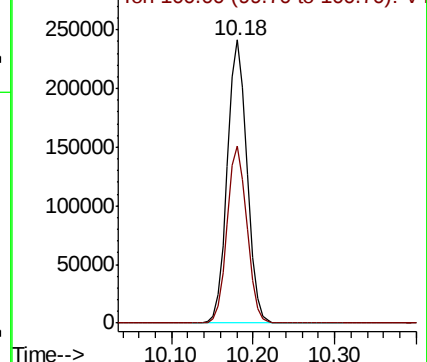
Ion Ratio Lower Upper

98 100

100 62.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY003113.D (-1336) (-)



#62

4-Bromofluorobenzene

Concen: 29.126 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

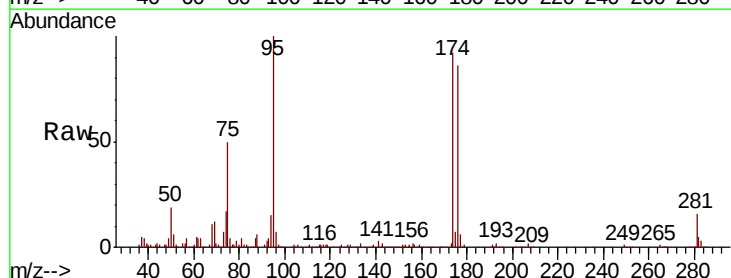
Tgt Ion: 95 Resp: 86457

Ion Ratio Lower Upper

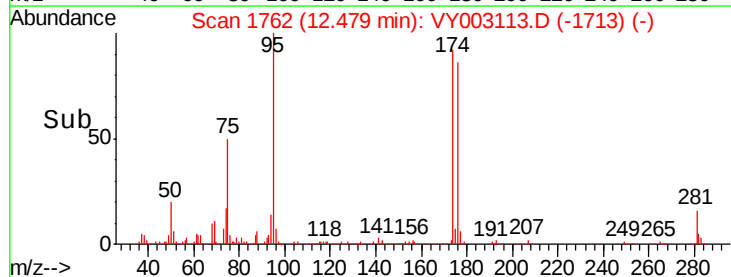
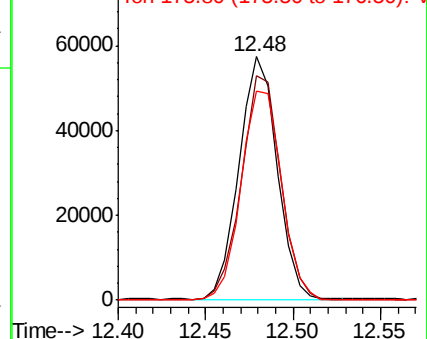
95 100

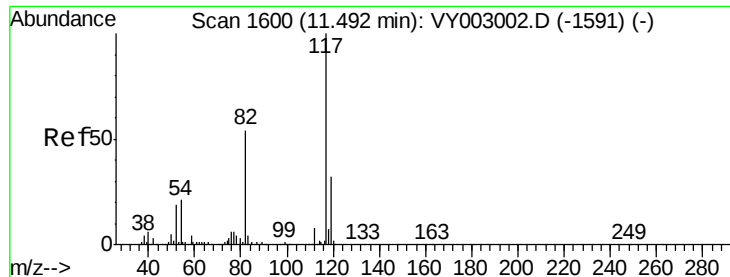
174 95.8 0.0 184.8

176 92.2 0.0 183.0



Abundance Ion 94.90 (94.60 to 95.60): VY003113.D (-1713) (-)

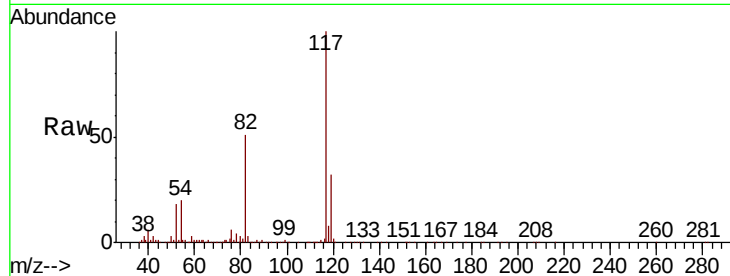




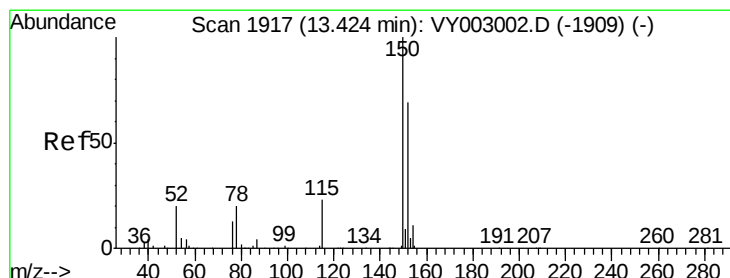
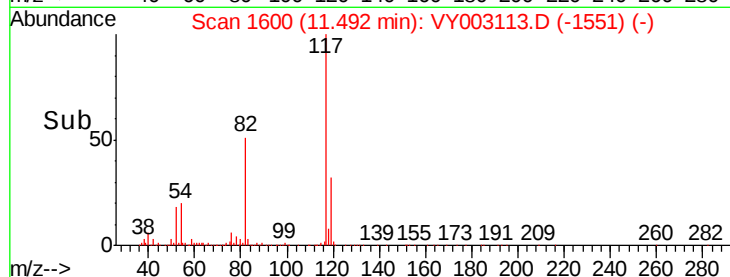
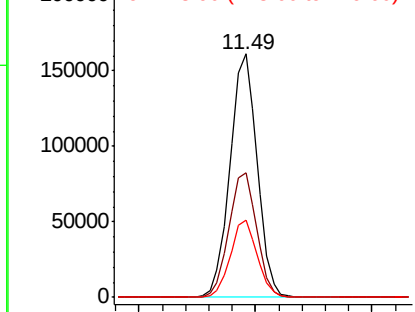
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

Instrument :
MSVOA_Y
ClientSampleId :
E3-41-BOILER-ROOM

Tot Ion:117 Resp: 262072
Ion Ratio Lower Upper
117 100
82 50.9 43.0 64.6
119 31.5 25.8 38.8

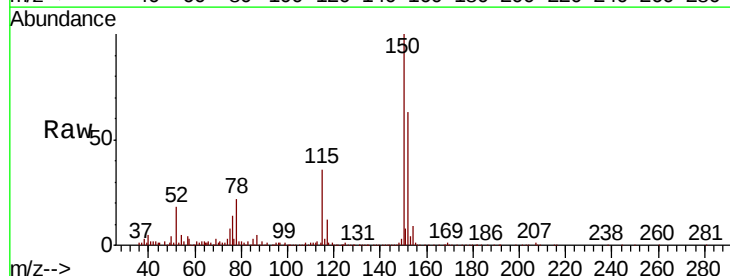


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

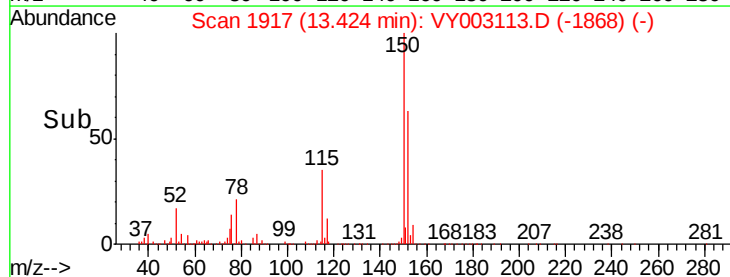
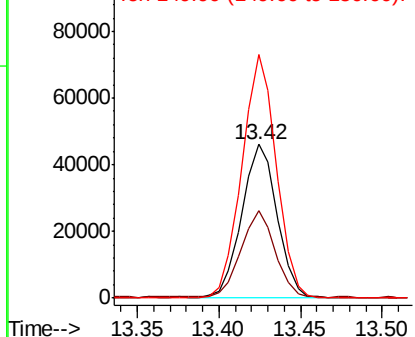


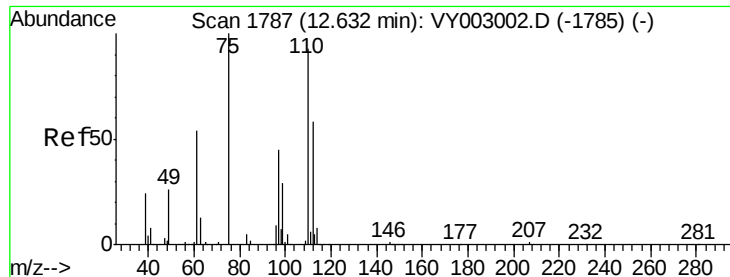
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

Tgt Ion:152 Resp: 68814
Ion Ratio Lower Upper
152 100
115 54.2 27.3 81.9
150 156.2 0.0 343.4



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: 64.147 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

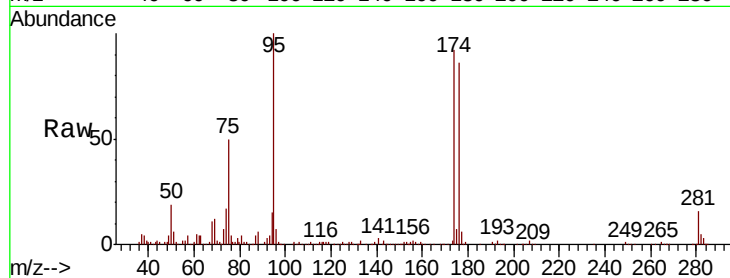
E3-41-BOILER-ROOM

Tot Ion: 75 Resp: 43687

Ion Ratio Lower Upper

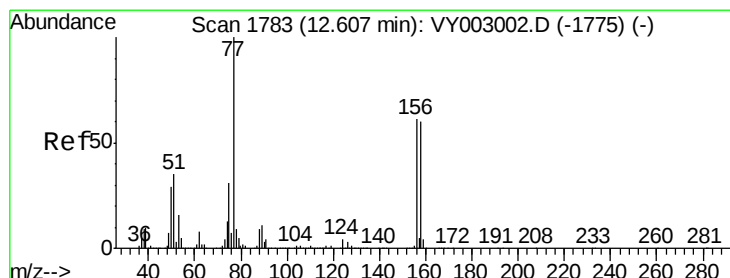
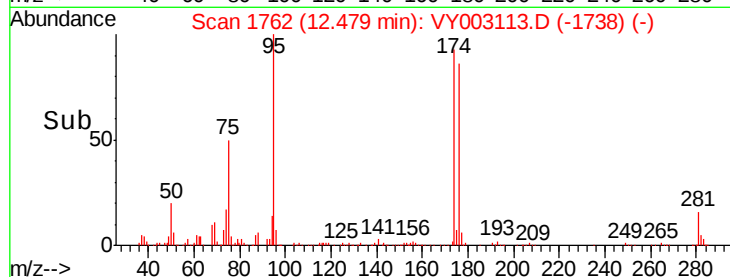
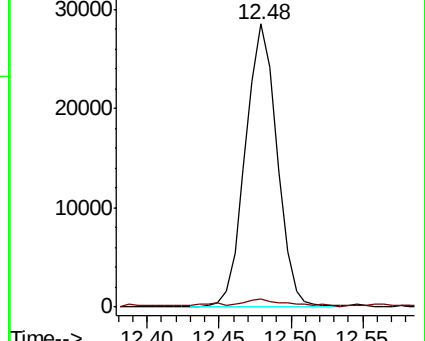
75 100

77 3.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#77

Bromobenzene

Concen: 2.579 ug/l

RT: 12.66 min Scan# 1792

Delta R.T. 0.05 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

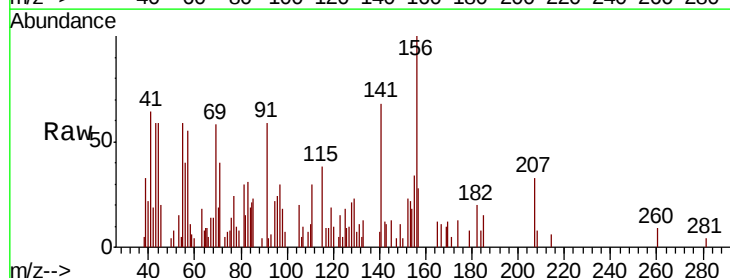
Tgt Ion: 156 Resp: 2978

Ion Ratio Lower Upper

156 100

77 17.9 90.0 270.0#

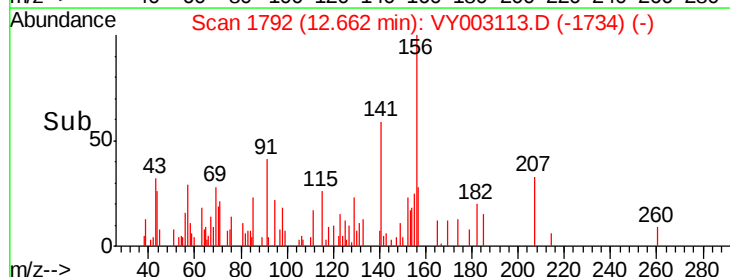
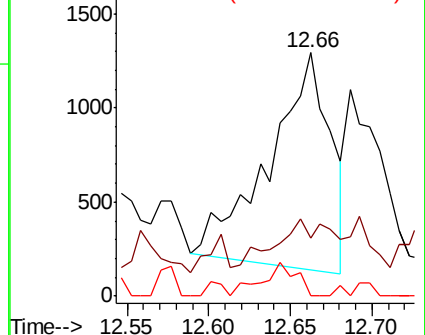
158 8.5 48.5 145.5#

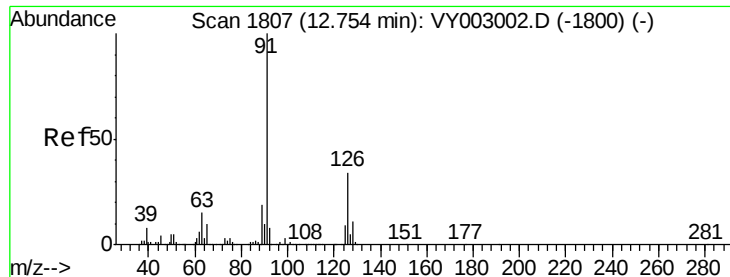


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V

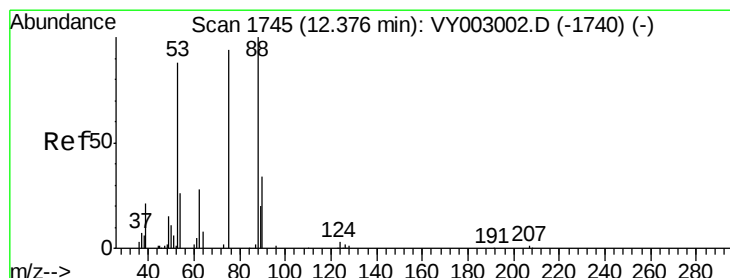
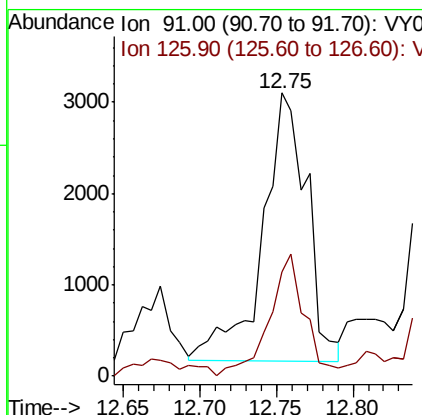
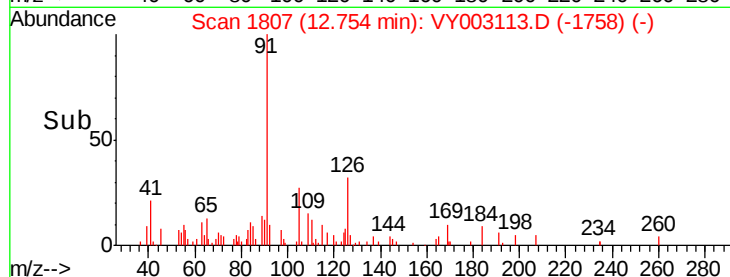
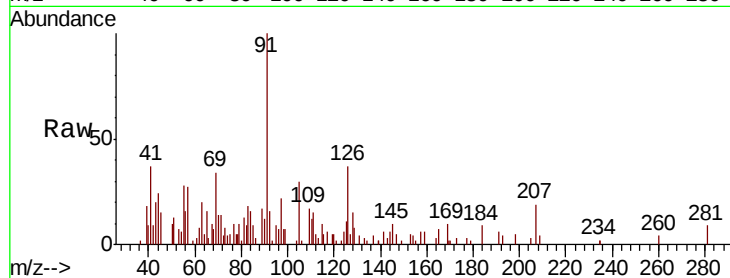




#79
2-Chlorotoluene
Concen: 1.964 ug/l
RT: 12.75 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

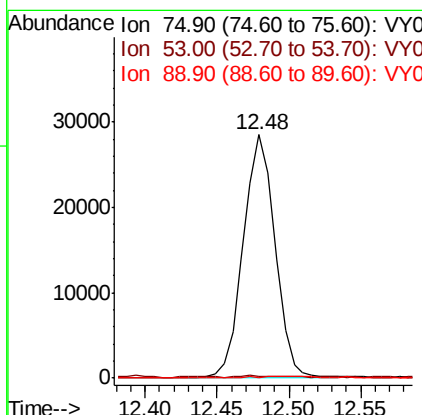
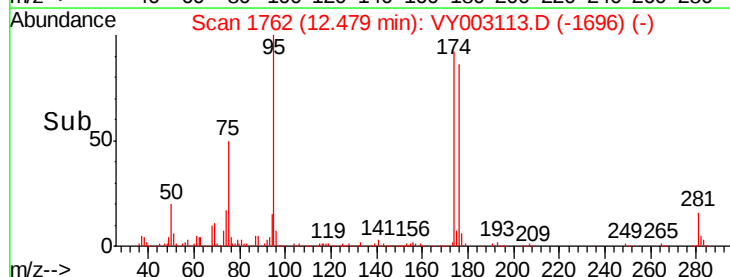
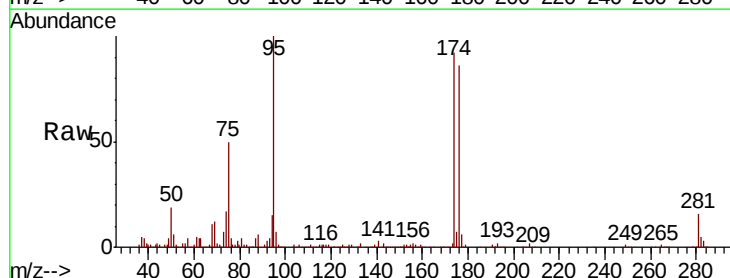
Instrument :
MSVOA_Y
ClientSampleId :
E3-41-BOILER-ROOM

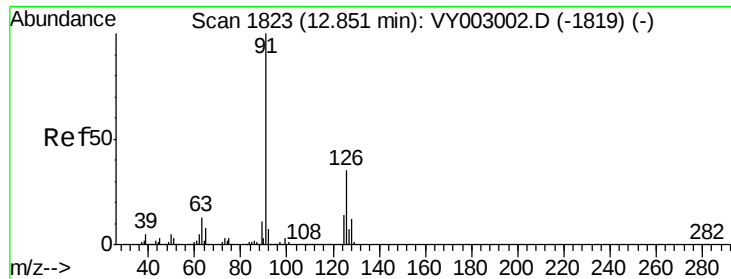
Tot Ion: 91 Resp: 5938
Ion Ratio Lower Upper
91 100
126 36.5 17.1 51.3



#81
trans-1,4-Dichloro-2-butene
Concen: 124.803 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.10 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

Tgt Ion: 75 Resp: 43687
Ion Ratio Lower Upper
75 100
53 0.9 73.9 110.9#
89 1.1 37.5 56.3#

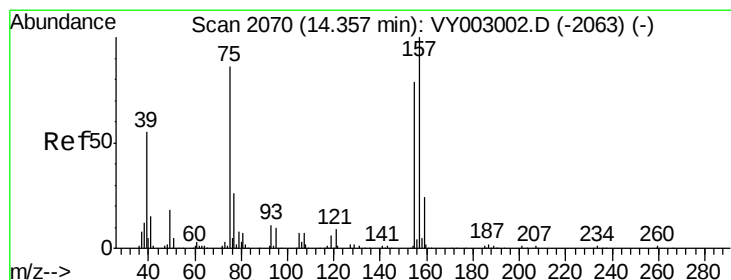
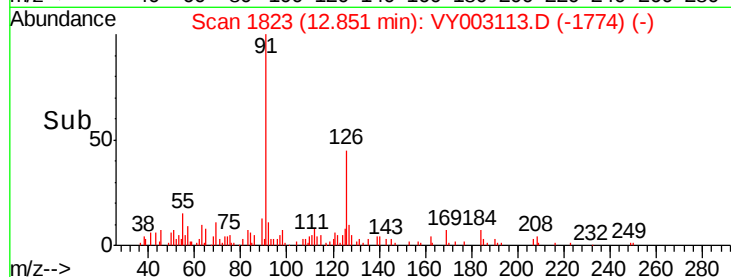
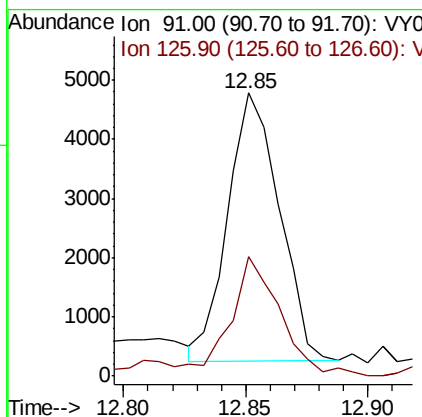
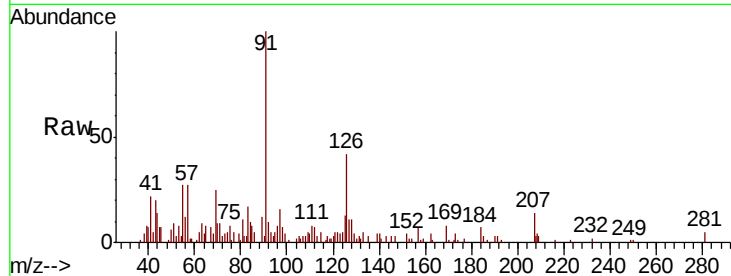




#82
4-Chlorotoluene
Concen: 2.102 ug/l
RT: 12.85 min Scan# 1823
Delta R.T. -0.00 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

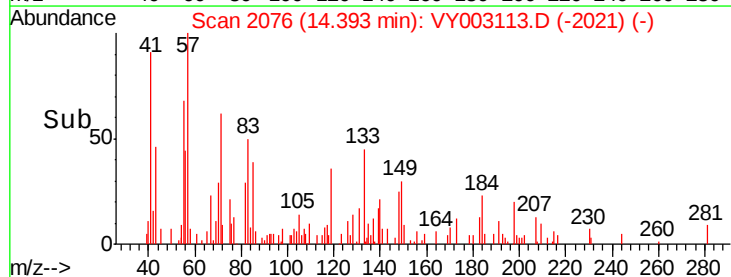
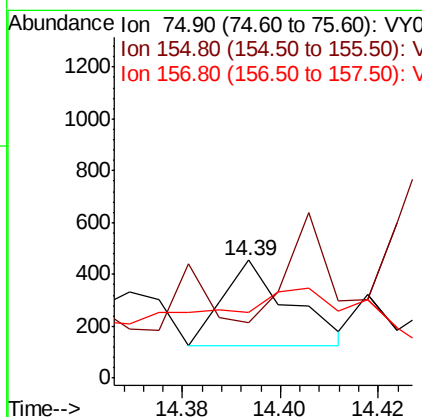
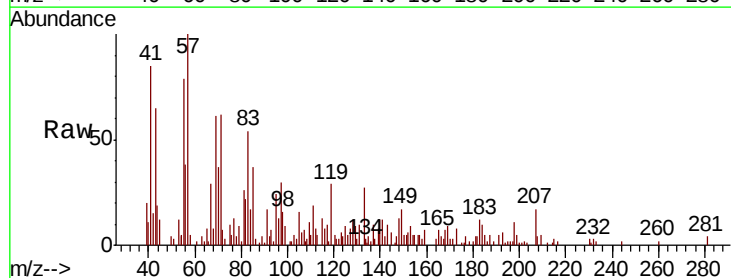
Instrument :
MSVOA_Y
ClientSampleId :
E3-41-BOILER-ROOM

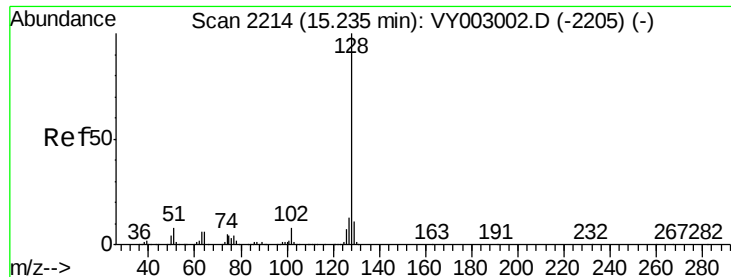
Tot Ion: 91 Resp: 6615
Ion Ratio Lower Upper
91 100
126 43.8 17.4 52.3



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.945 ug/l
RT: 14.39 min Scan# 2076
Delta R.T. 0.04 min
Lab File: VY003113.D
Acq: 06 Jul 2020 15:13

Tgt Ion: 75 Resp: 313
Ion Ratio Lower Upper
75 100
155 72.8 46.5 139.3
157 157.2 59.2 177.5





#95

Naphthalene

Concen: 2.004 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-BOILER-ROOM

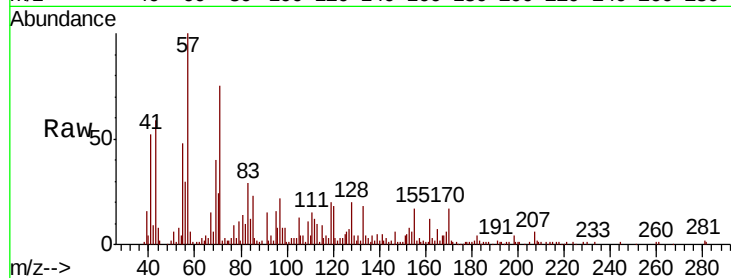
Tot Ion:128 Resp: 5261

Ion Ratio Lower Upper

128 100

127 77.0 10.8 16.2#

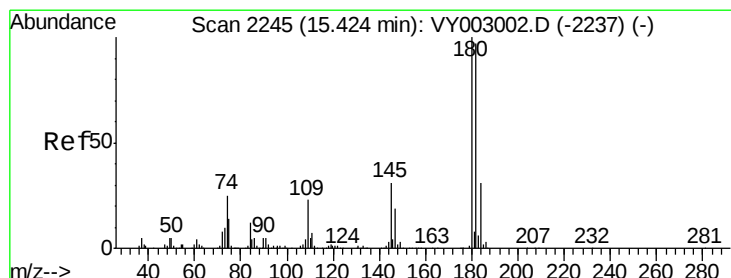
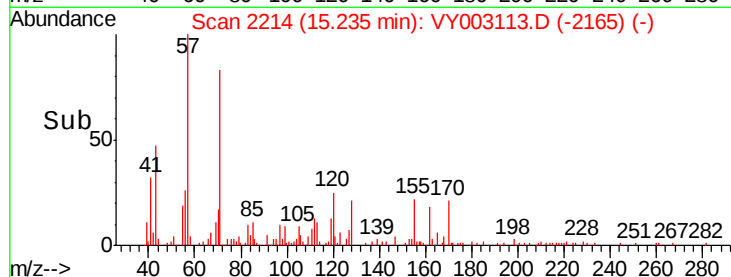
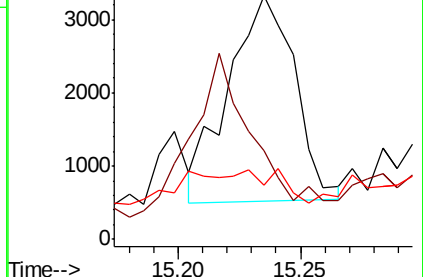
129 0.0 8.8 13.2#



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: 1.231 ug/l

RT: 15.45 min Scan# 2249

Delta R.T. 0.02 min

Lab File: VY003113.D

Acq: 06 Jul 2020 15:13

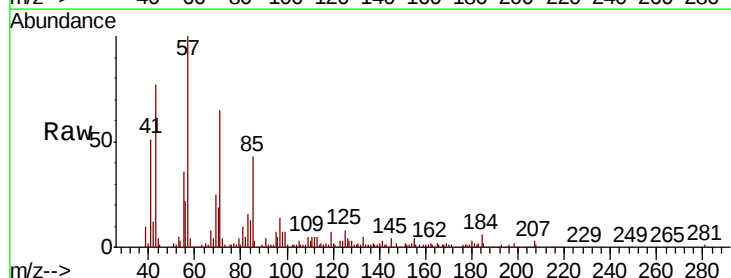
Tgt Ion:180 Resp: 1536

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.3#

145 487.4 14.7 44.1#



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

