

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\
 Data File : VD062667.D
 Acq On : 12 Jun 2019 11:49
 Operator : VA/AP
 Sample : VD0612SBL01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0612SBL01

Quant Time: Jun 13 07:22:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	867535	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1073347	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	911313	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	513333	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	631613	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
35) Dibromofluoromethane	6.92	113	636016	56.19	ug/l	0.00
Spiked Amount			Recovery	=	112.38%	
50) Toluene-d8	10.40	98	1364967	57.32	ug/l	0.00
Spiked Amount			Recovery	=	114.64%	
62) 4-Bromofluorobenzene	13.55	95	591996	53.29	ug/l	0.00
Spiked Amount			Recovery	=	106.58%	

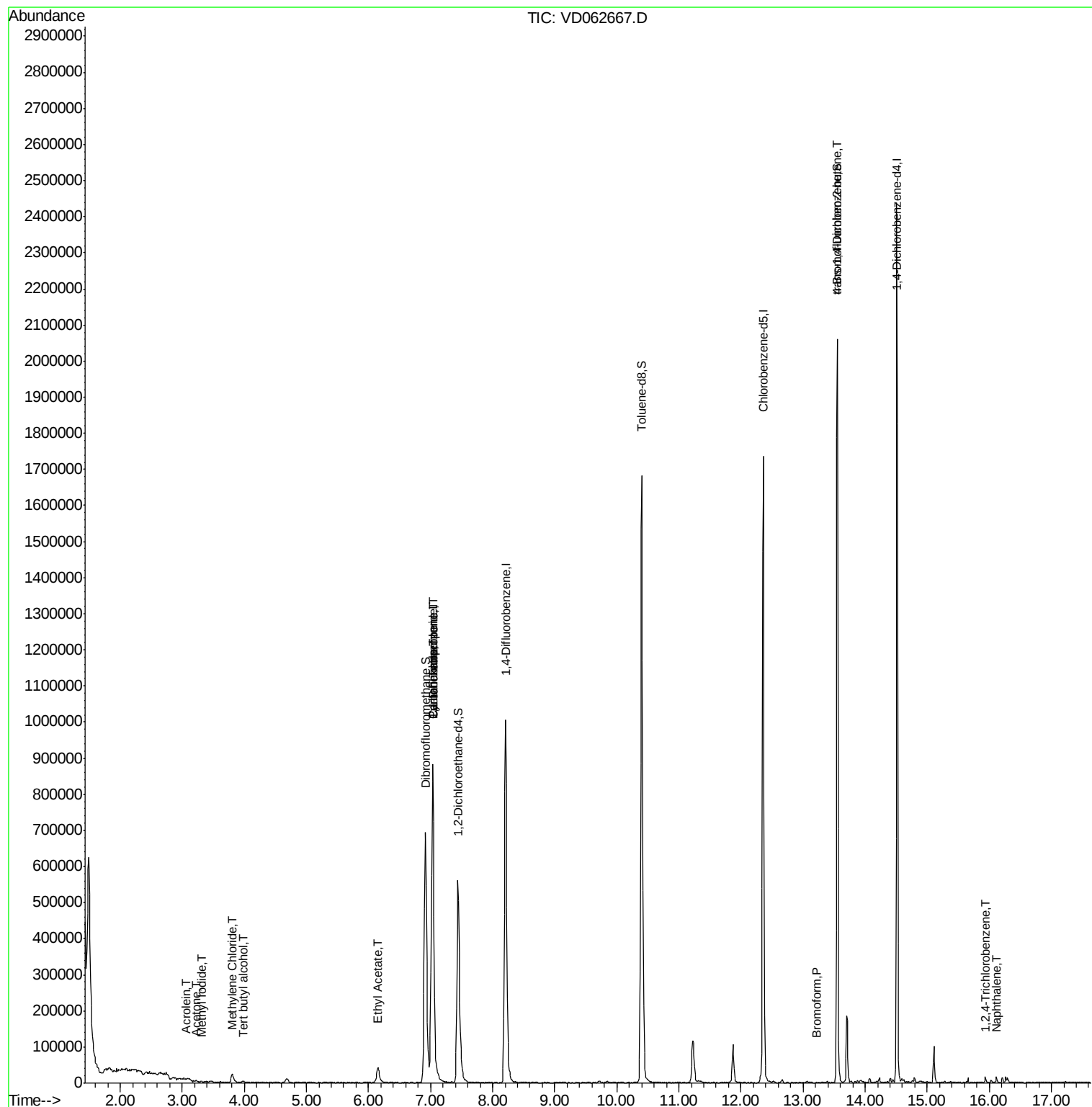
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	2756	Below Cal		100
10) Methyl Iodide	3.30	142	1804	4.116	ug/l #	64
11) Tert butyl alcohol	3.97	59	4473	8.693	ug/l #	61
13) Acrolein	3.06	56	181	1.094	ug/l #	1
16) Acetone	3.23	43	8800	3.839	ug/l #	66
20) Methylene Chloride	3.81	84	13117	1.082	ug/l #	89
31) Cyclohexane	7.03	56	23971	2.426	ug/l #	12
36) 1,1-Dichloropropene	7.03	75	65720	5.350	ug/l #	54
37) Ethyl Acetate	6.15	43	4027	1.951	ug/l #	25
38) Carbon Tetrachloride	7.04	117	90490	4.660	ug/l #	16
71) Bromoform	13.23	173	270	2.866	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.55	75	286303	131.795	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	4230	3.865	ug/l #	72
95) Naphthalene	16.11	128	9894	3.944	ug/l	97

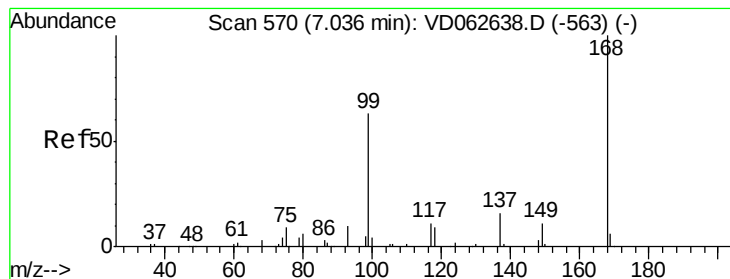
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

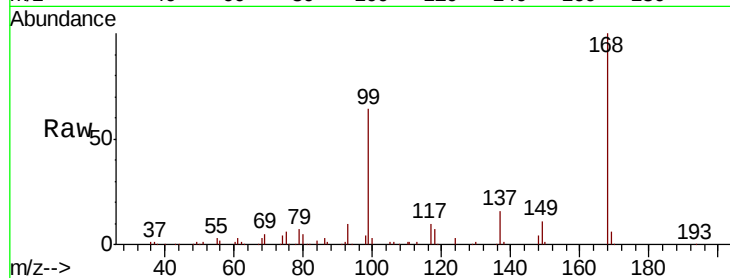
VD0612SBL01

Tot Ion:168 Resp: 867535

Ion Ratio Lower Upper

168 100

99 64.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

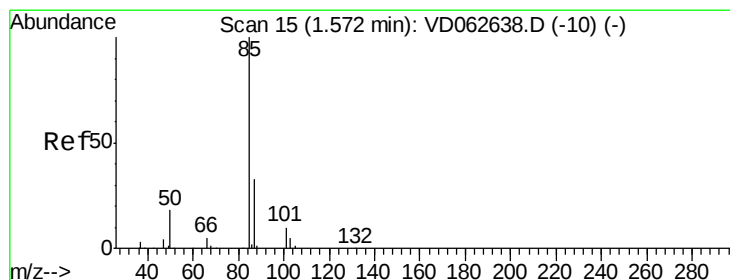
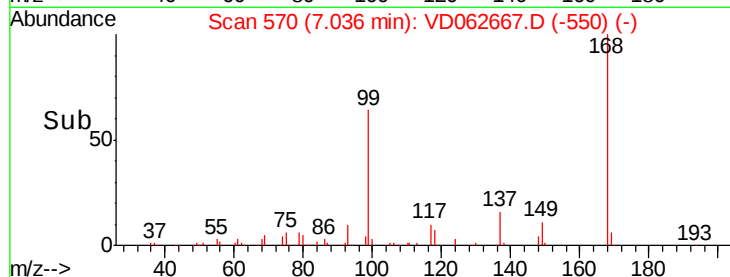
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.56 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD062667.D

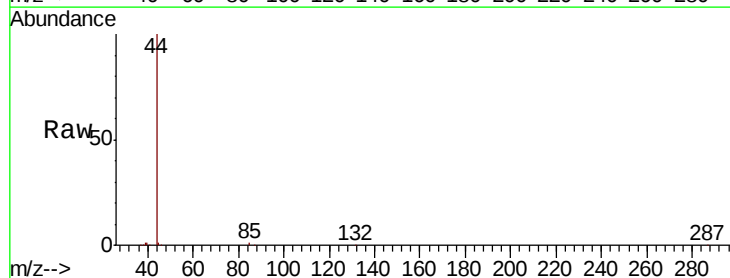
Acq: 12 Jun 2019 11:49

Tgt Ion: 85 Resp: 2756

Ion Ratio Lower Upper

85 100

87 33.0 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.56

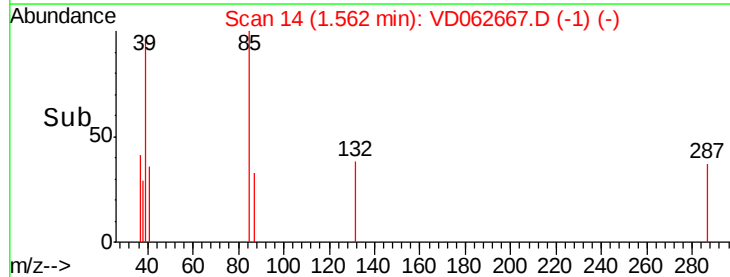
1000

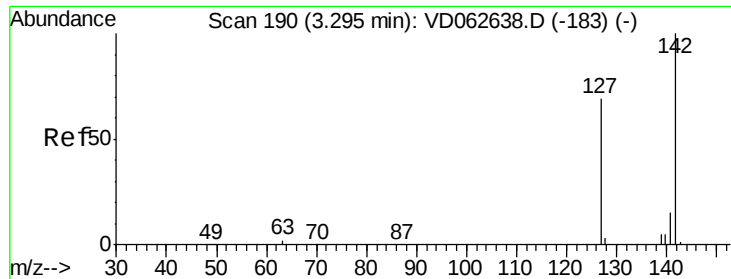
500

0

Time-->

1.55 1.60

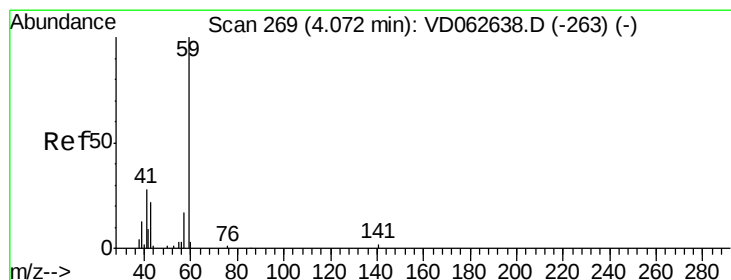
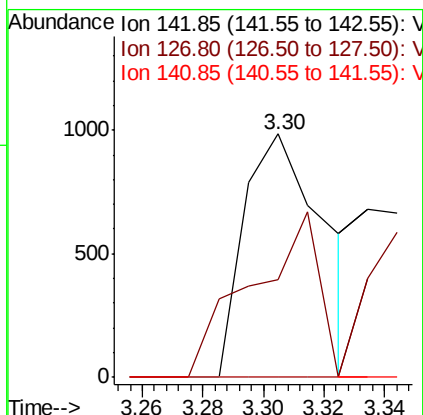
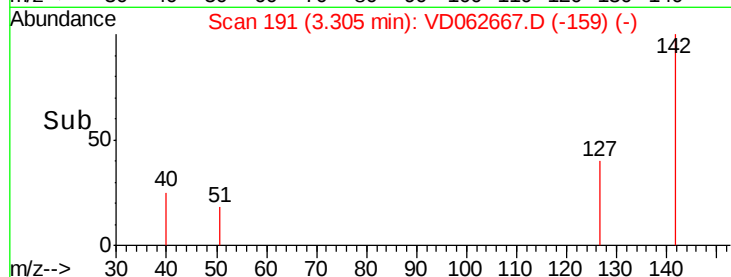
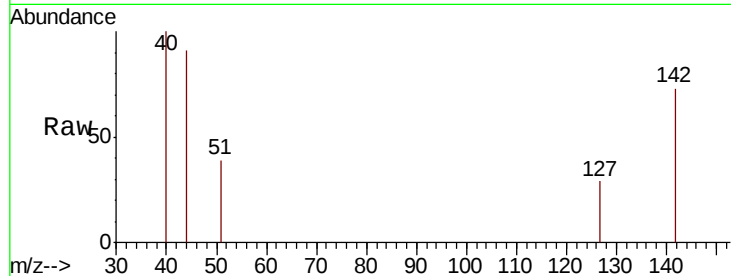




#10
Methvl Iodide
Concen: 4.116 ug/l
RT: 3.30 min Scan# 191
Delta R.T. 0.01 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

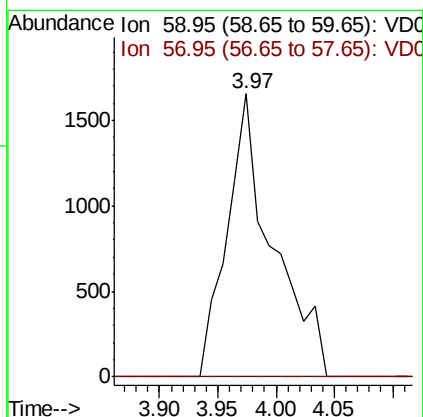
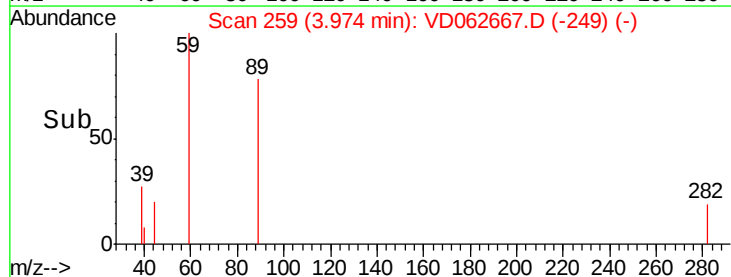
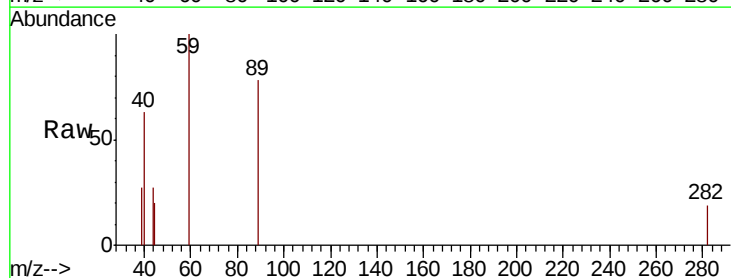
Instrument :
MSVOA_D
ClientSampleId :
VD0612SBL01

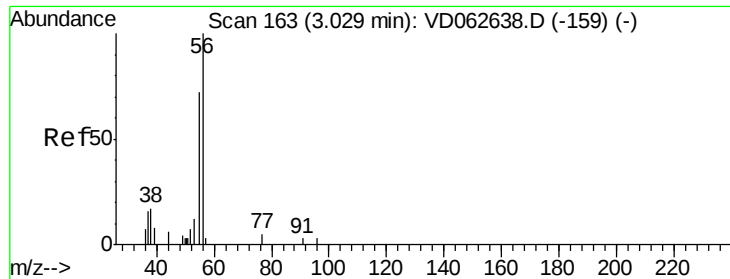
Tot Ion:142 Resp: 1804
Ion Ratio Lower Upper
142 100
127 39.9 55.2 82.8#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 8.693 ug/l
RT: 3.97 min Scan# 259
Delta R.T. -0.10 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

Tgt Ion: 59 Resp: 4473
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#





#13

Acrolein

Concen: 1.094 ug/l

RT: 3.06 min Scan# 166

Delta R.T. 0.03 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

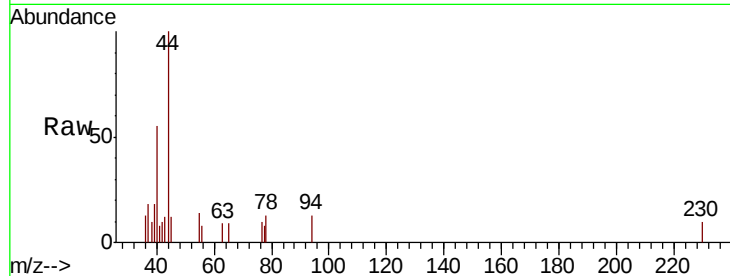
VD0612SBL01

Tot Ion: 56 Resp: 181

Ion Ratio Lower Upper

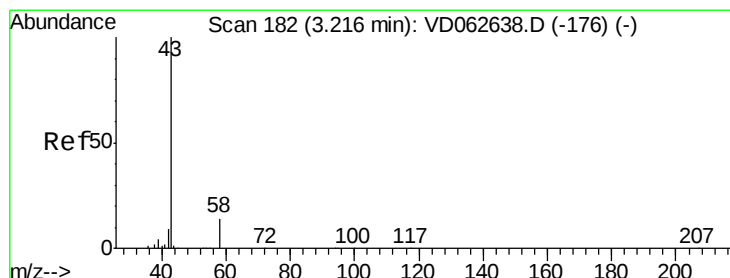
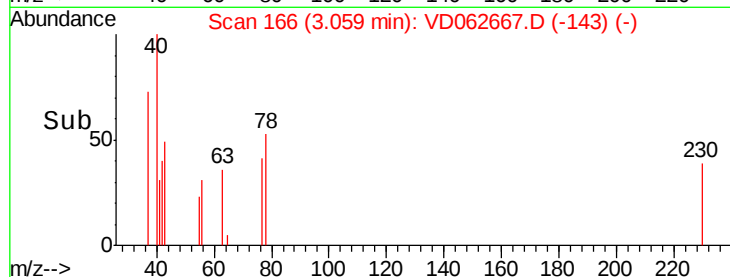
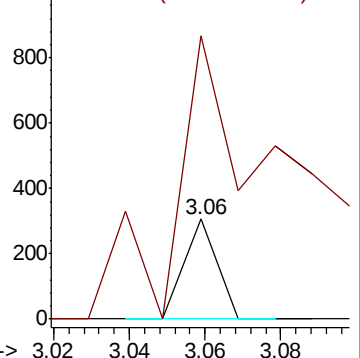
56 100

55 282.4 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 3.839 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062667.D

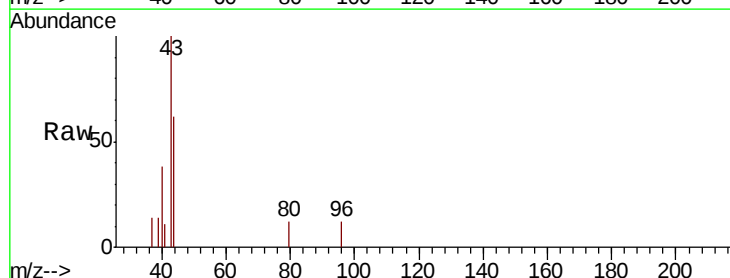
Acq: 12 Jun 2019 11:49

Tgt Ion: 43 Resp: 8800

Ion Ratio Lower Upper

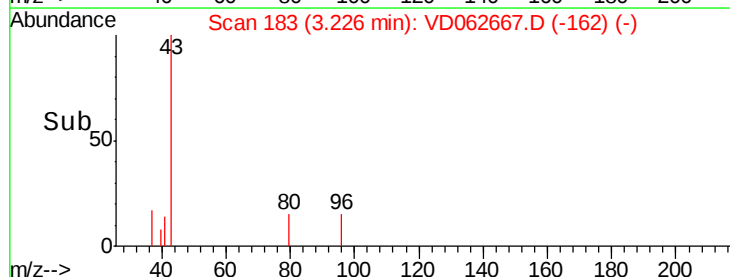
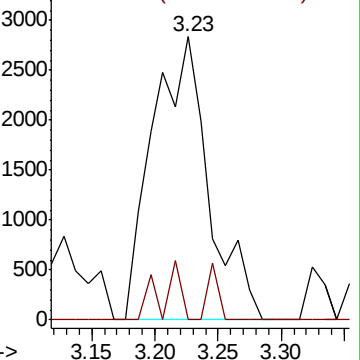
43 100

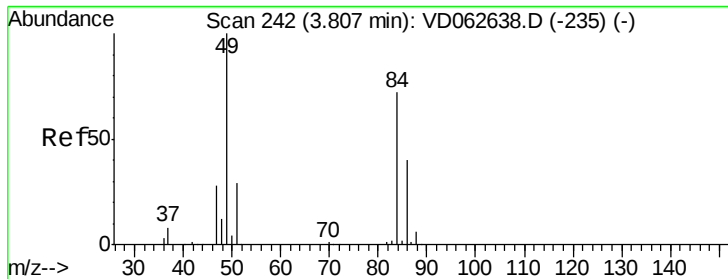
58 0.0 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

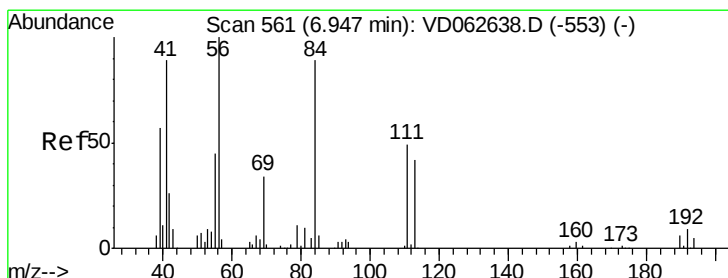
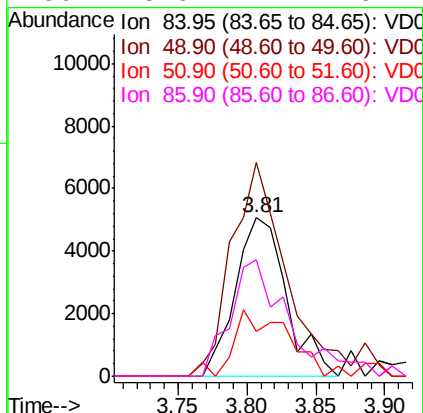
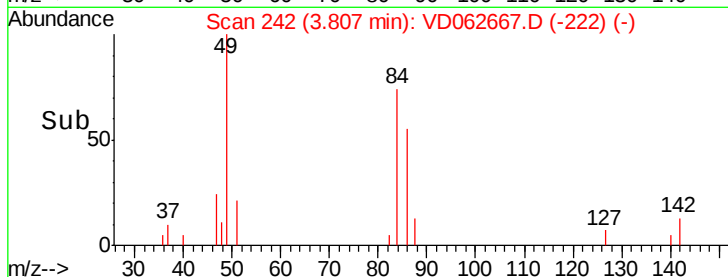
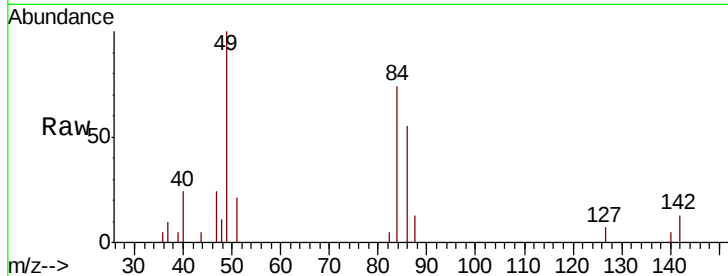




#20
Methvlene Chloride
Concen: 1.082 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

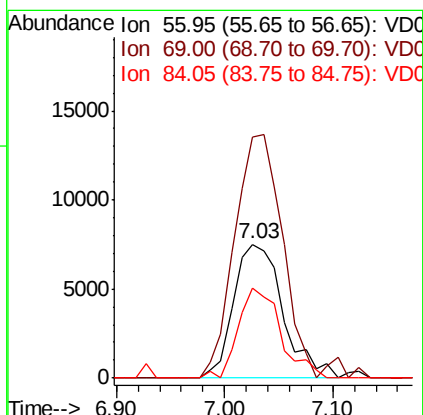
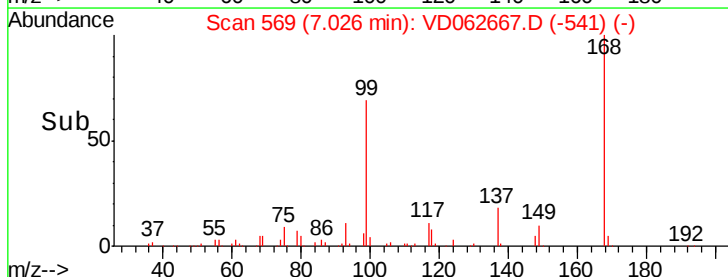
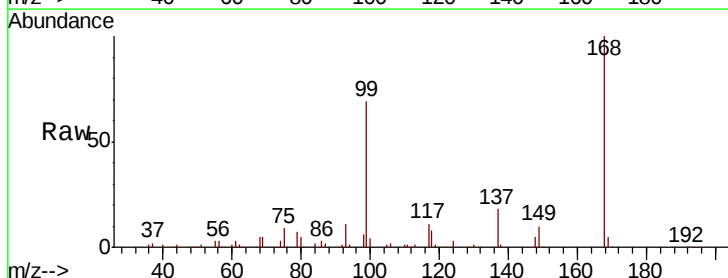
Instrument :
MSVOA_D
ClientSampleId :
VD0612SBL01

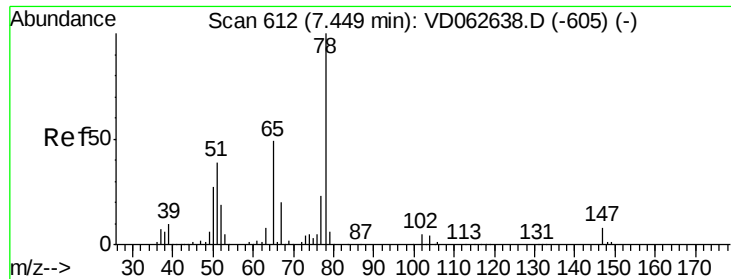
Tot Ion: 84 Resp: 13117
Ion Ratio Lower Upper
84 100
49 134.8 111.2 166.8
51 28.0 31.9 47.9#
86 73.6 44.7 67.1#



#31
Cyclohexane
Concen: 2.426 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.08 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

Tgt Ion: 56 Resp: 23971
Ion Ratio Lower Upper
56 100
69 180.5 26.8 40.2#
84 67.5 73.9 110.9#





#33

1,2-Dichloroethane-d4

Concen: 50.455 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

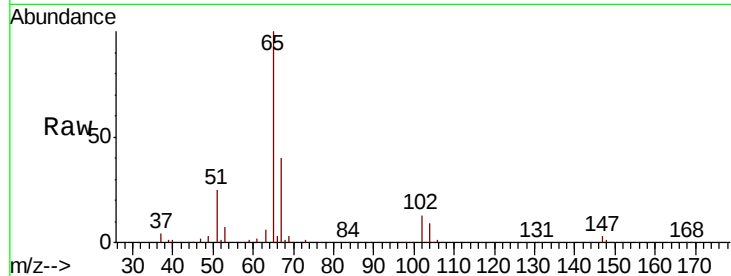
VD0612SBL01

Tot Ion: 65 Resp: 631613

Ion Ratio Lower Upper

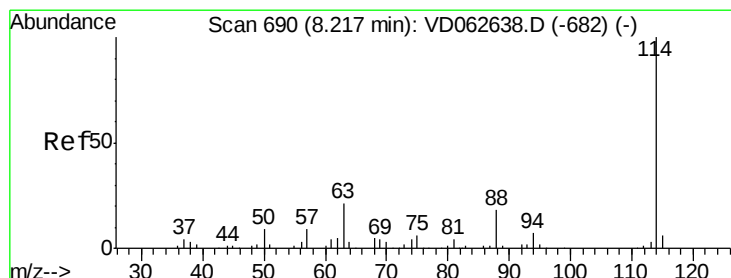
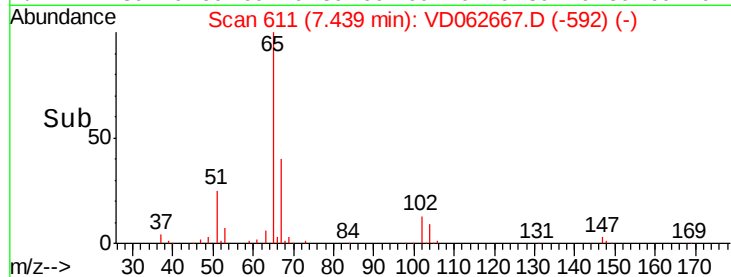
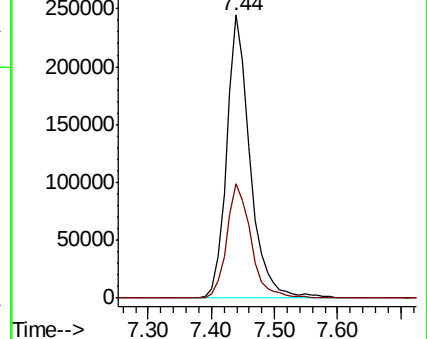
65 100

67 40.5 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

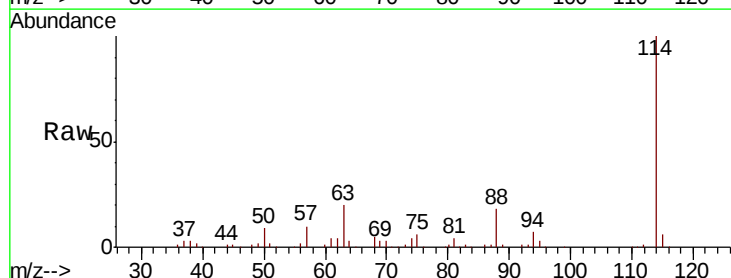
Tgt Ion: 114 Resp: 1073347

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.4

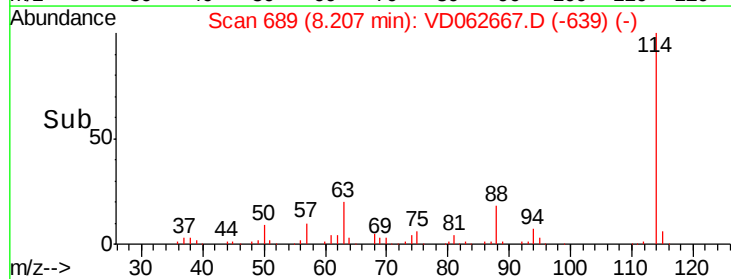
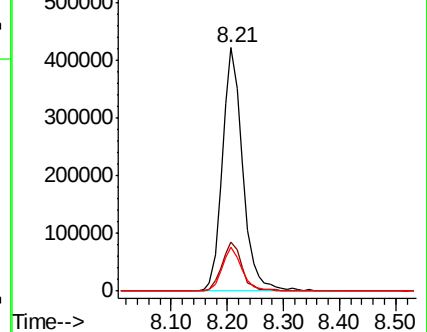
88 18.3 0.0 36.8

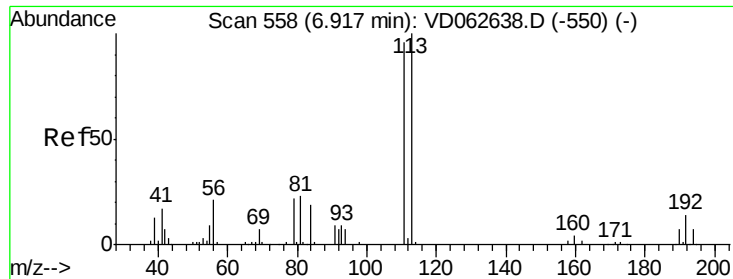


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

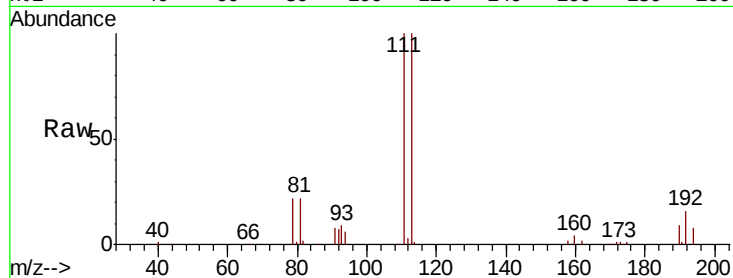




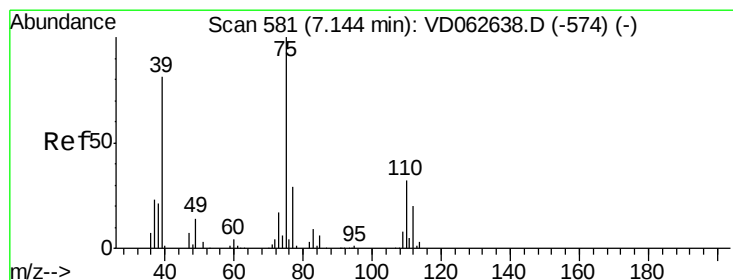
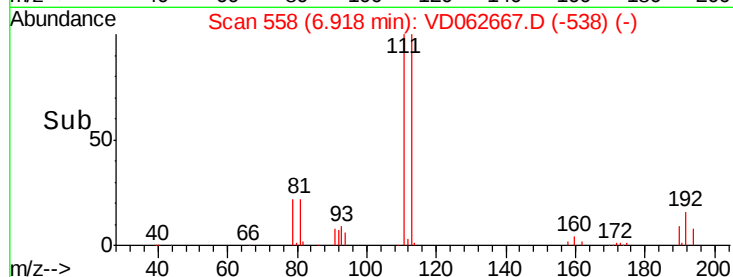
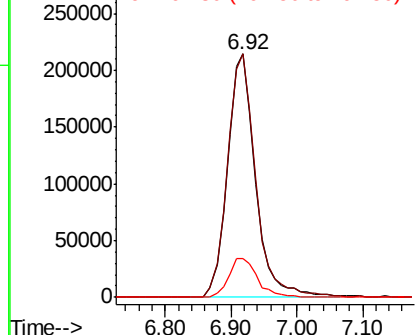
#35
 Dibromofluoromethane
 Concen: 56.186 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.00 min
 Lab File: VD062667.D
 Acq: 12 Jun 2019 11:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0612SBL01

Tot Ion	Ratio	Lower	Upper
113	100		
111	99.9	76.4	114.6
192	15.9	11.4	17.0

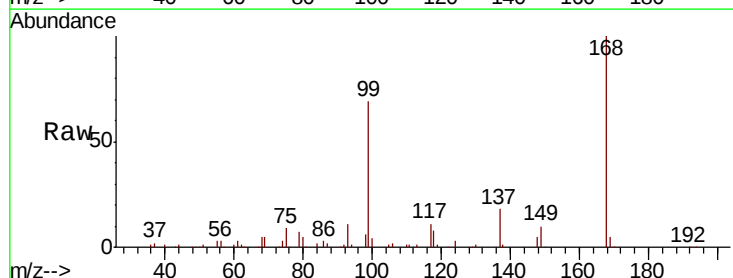


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

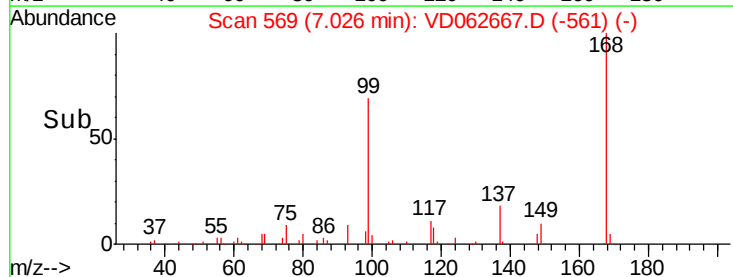
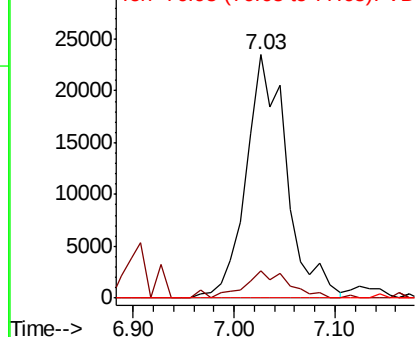


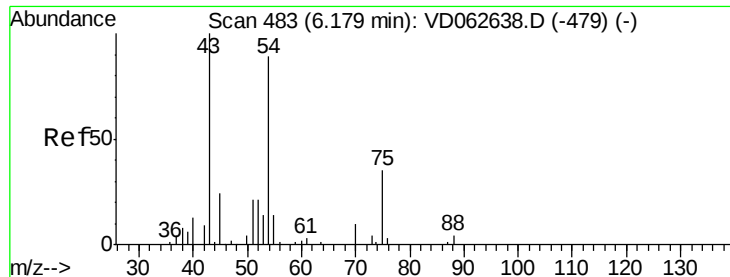
#36
 1,1-Dichloropropene
 Concen: 5.350 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.12 min
 Lab File: VD062667.D
 Acq: 12 Jun 2019 11:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.0	15.9	47.7#
77	0.0	23.3	34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC

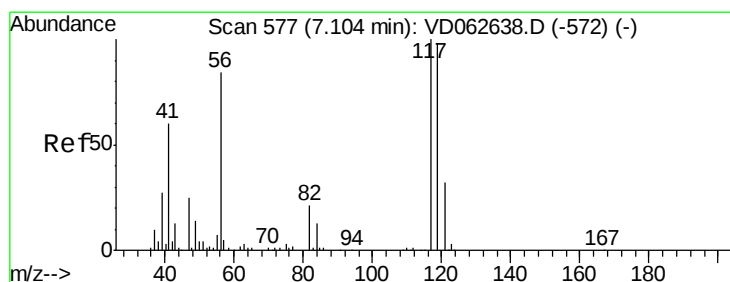
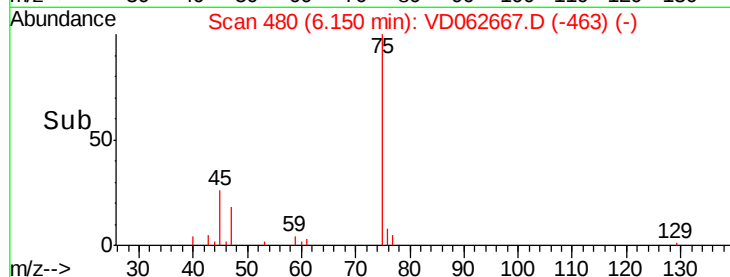
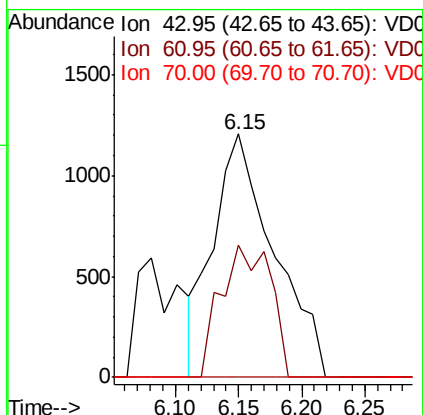
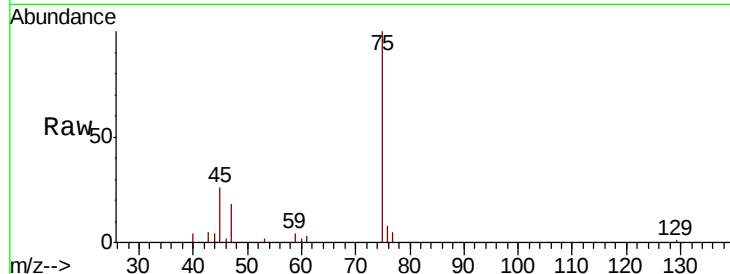




#37
Ethyl Acetate
Concen: 1.951 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.03 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

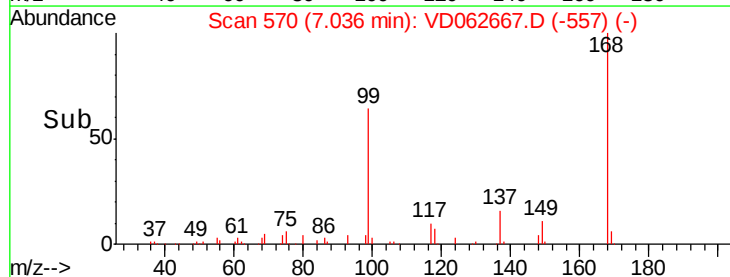
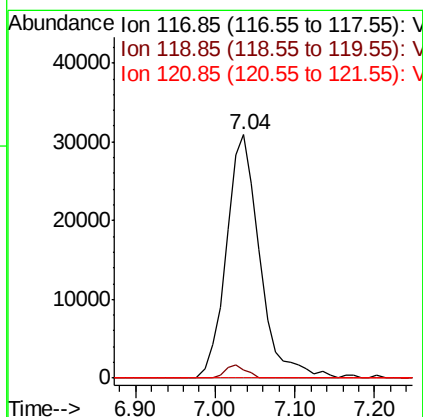
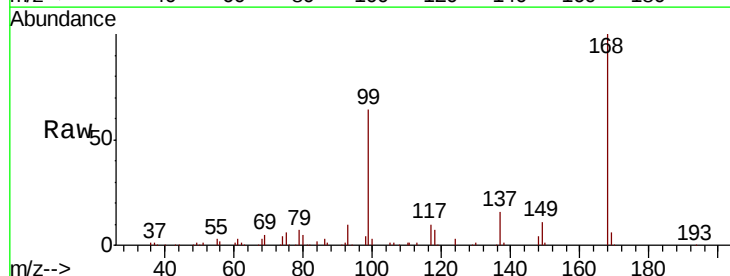
Instrument :
MSVOA_D
ClientSampleId :
VD0612SBL01

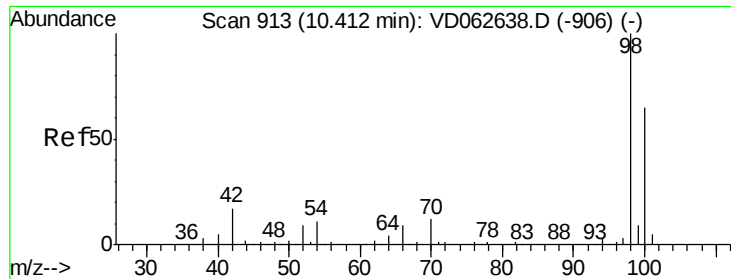
Tot Ion: 43 Resp: 4027
Ion Ratio Lower Upper
43 100
61 54.1 8.7 13.1#
70 0.0 6.5 9.7#



#38
Carbon Tetrachloride
Concen: 4.660 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

Tgt Ion: 117 Resp: 90490
Ion Ratio Lower Upper
117 100
119 3.5 73.5 110.3#
121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 57.320 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.01 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

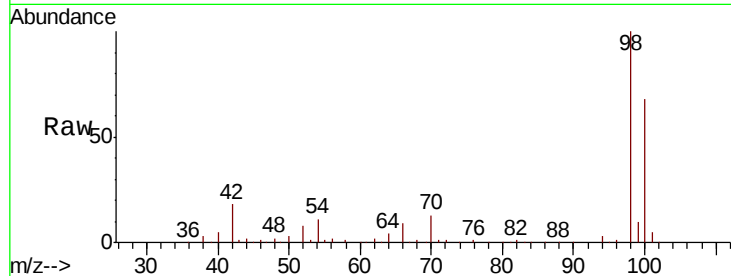
VD0612SBL01

Tot Ion: 98 Resp: 1364967

Ion Ratio Lower Upper

98 100

100 67.5 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): VD062638.D (-906) (-)

Ion 100.05 (99.75 to 100.75): VD062638.D (-906) (-)

10.40

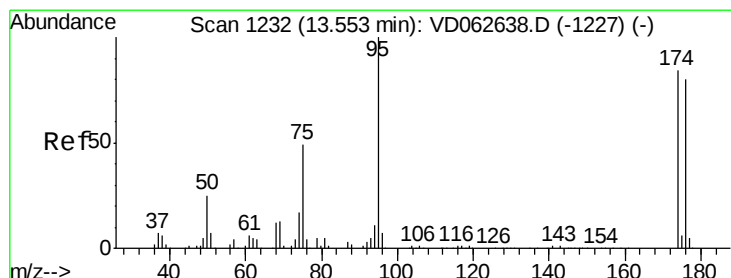
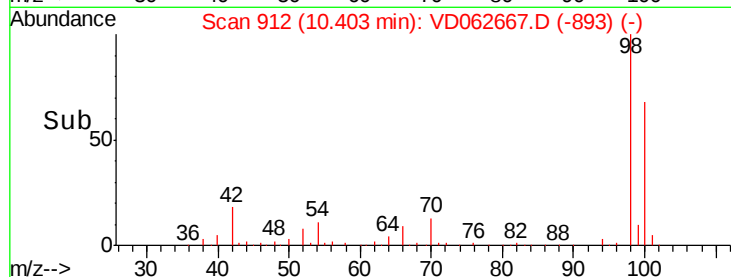
600000

400000

200000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.287 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

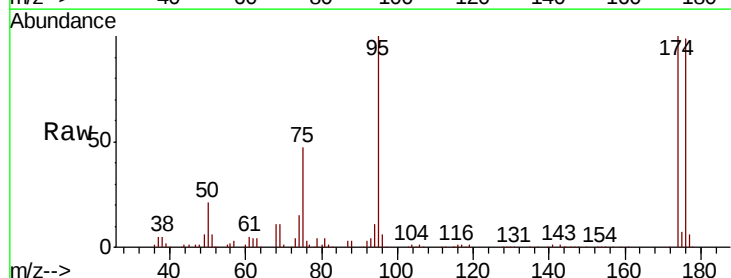
Tgt Ion: 95 Resp: 591996

Ion Ratio Lower Upper

95 100

174 100.2 0.0 167.0

176 99.2 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VD062638.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD062638.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD062638.D (-1227) (-)

500000

400000

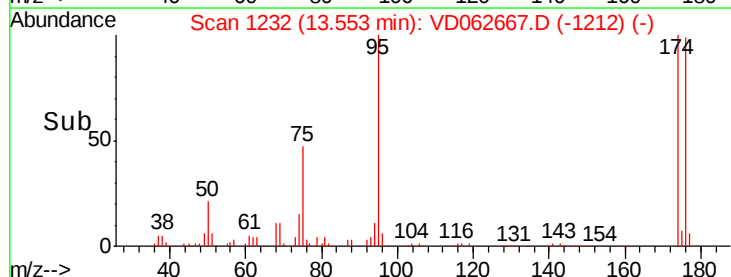
300000

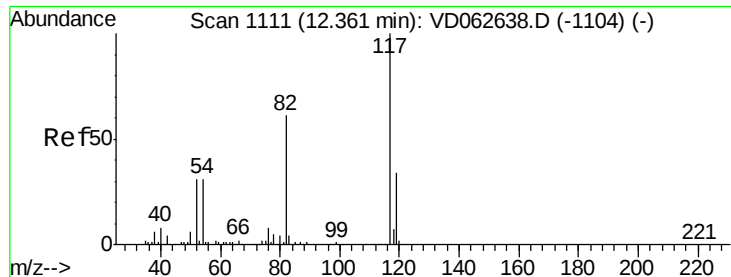
200000

100000

0

Time-->

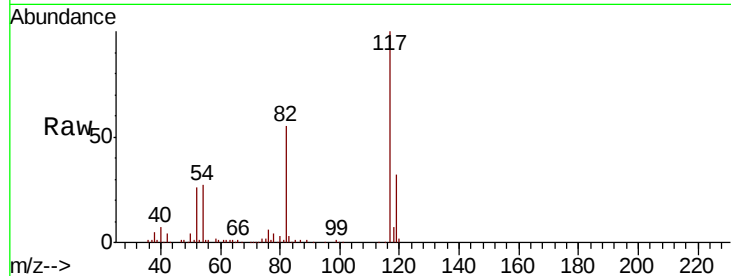




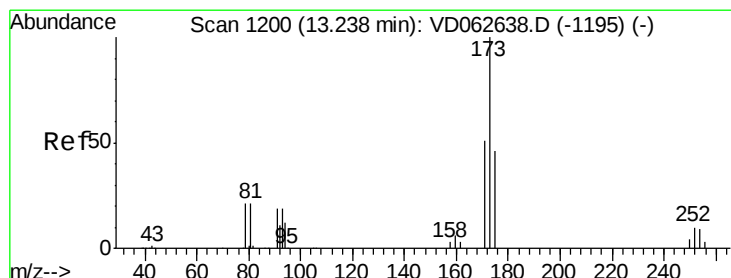
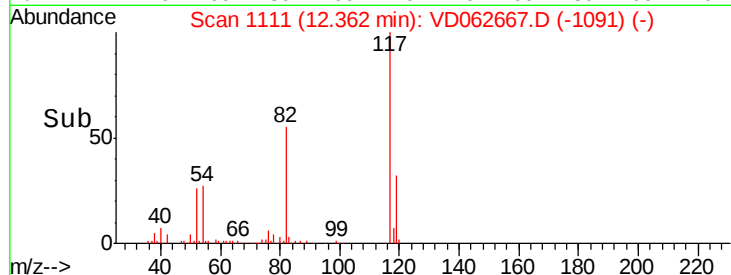
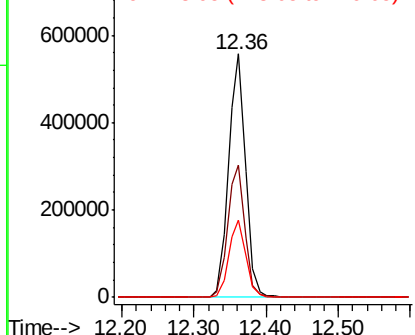
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

Instrument :
MSVOA_D
ClientSampleId :
VD0612SBL01

Tot Ion:117 Resp: 911313
Ion Ratio Lower Upper
117 100
82 54.6 48.7 73.1
119 31.5 27.0 40.6

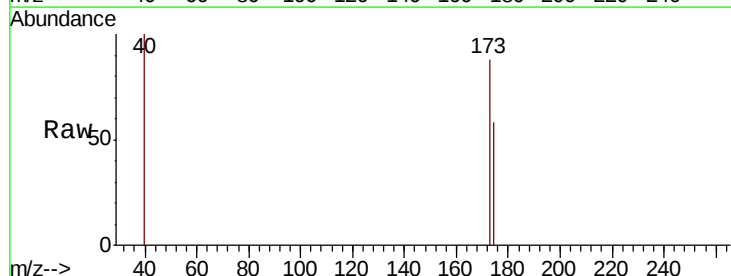


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

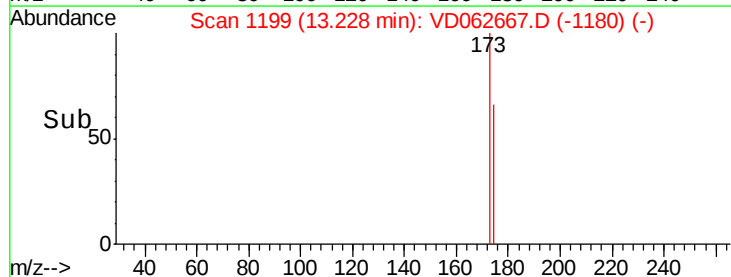
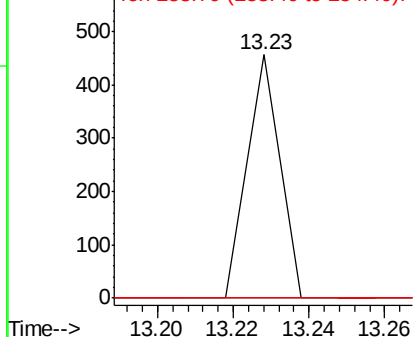


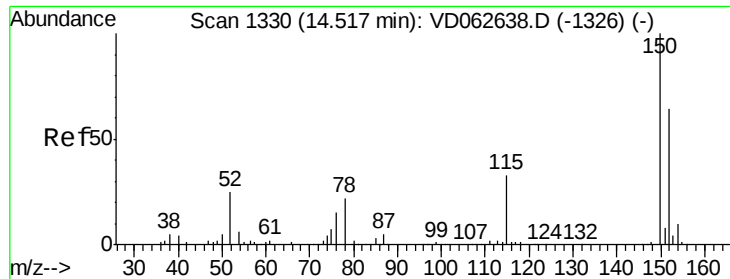
#71
Bromoform
Concen: 2.866 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. -0.01 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

Tgt Ion:173 Resp: 270
Ion Ratio Lower Upper
173 100
175 0.0 22.9 68.7#
254 0.0 7.0 10.4#



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



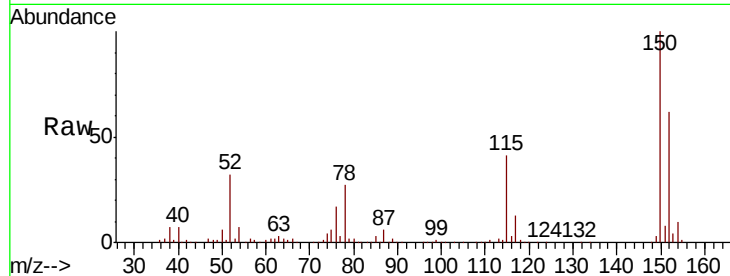


#72

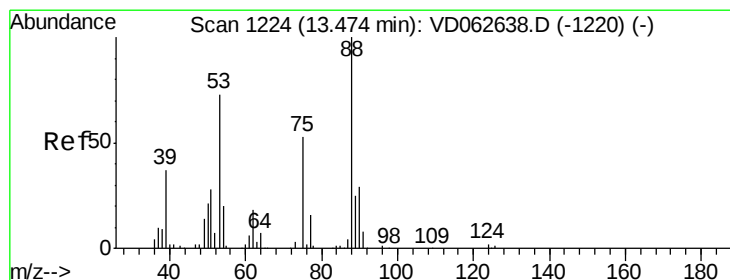
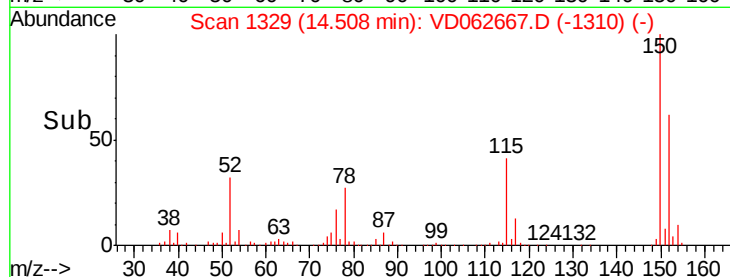
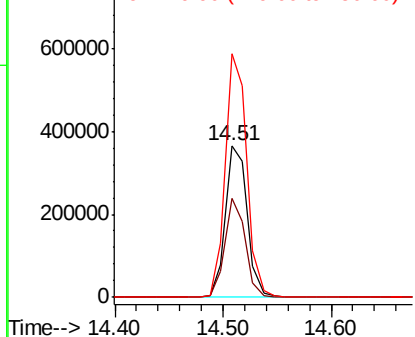
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

Instrument :
MSVOA_D
ClientSampleId :
VD0612SBL01

Tot Ion:152 Resp: 513333
Ion Ratio Lower Upper
152 100
115 65.2 30.1 90.5
150 160.2 0.0 314.0



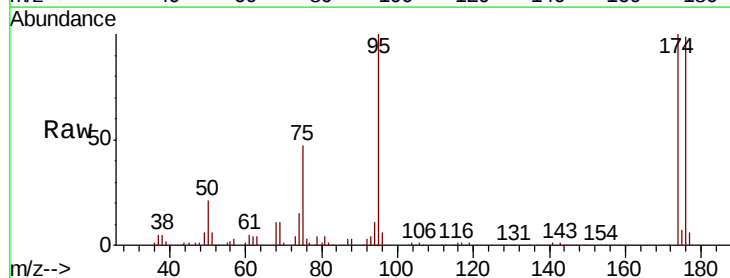
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



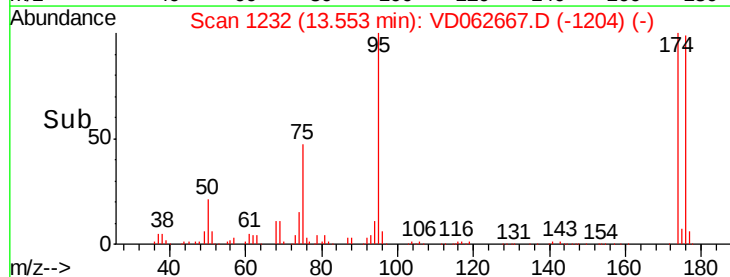
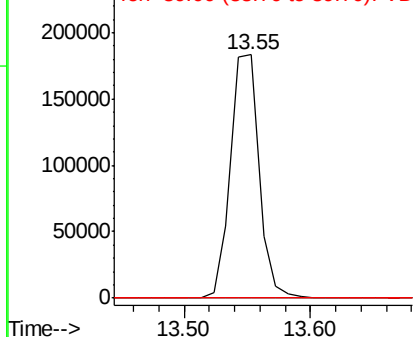
#81

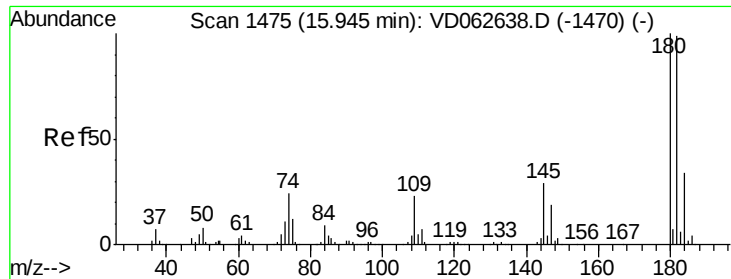
trans-1,4-Dichloro-2-butene
Concen: 131.795 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.08 min
Lab File: VD062667.D
Acq: 12 Jun 2019 11:49

Tgt Ion: 75 Resp: 286303
Ion Ratio Lower Upper
75 100
53 0.0 109.4 164.2#
89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

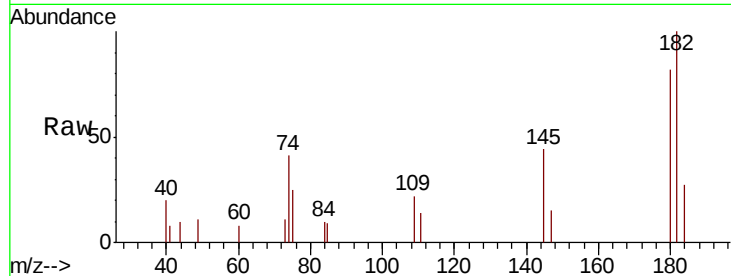




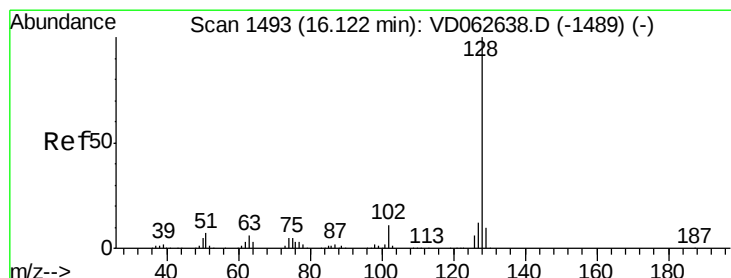
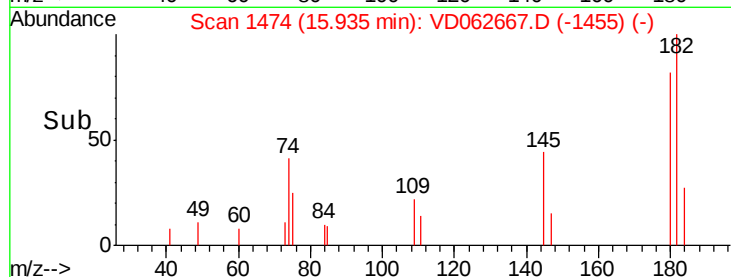
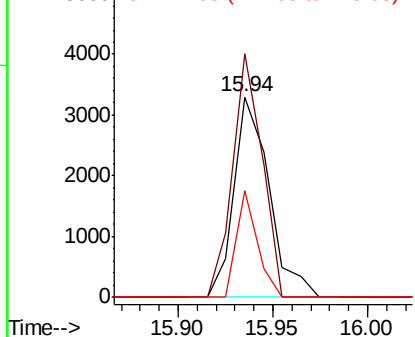
#93
 1,2,4-Trichlorobenzene
 Concen: 3.865 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD062667.D
 Acq: 12 Jun 2019 11:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0612SBL01

Tot Ion:180 Resp: 4230
 Ion Ratio Lower Upper
 180 100
 182 121.7 49.4 148.2
 145 53.4 14.5 43.6#

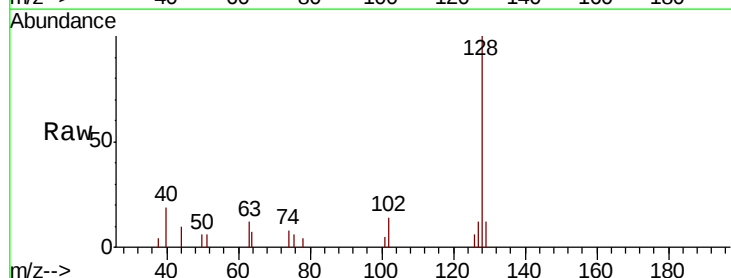


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.944 ug/l
 RT: 16.11 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VD062667.D
 Acq: 12 Jun 2019 11:49

Tgt Ion:128 Resp: 9894
 Ion Ratio Lower Upper
 128 100
 127 11.8 9.7 14.5
 129 12.1 8.1 12.1



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

