

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058320.D
 Acq On : 23 Jun 2018 4:16
 Operator : VA/AP
 Sample : J3622-01
 Misc : 5.15g/5ml/MSVOA D/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 275-137-282-284

Quant Time: Jun 23 04:40:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	635980	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	899559	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	556254	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	253407	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	364412	56.73	ug/l	0.02
Spiked Amount			Recovery	=	113.46%	
35) Dibromofluoromethane	5.57	113	384823	52.56	ug/l	0.02
Spiked Amount			Recovery	=	105.12%	
50) Toluene-d8	8.72	98	632597	35.71	ug/l	0.00
Spiked Amount			Recovery	=	71.42%	
62) 4-Bromofluorobenzene	11.93	95	276502	38.21	ug/l	0.00
Spiked Amount			Recovery	=	76.42%	

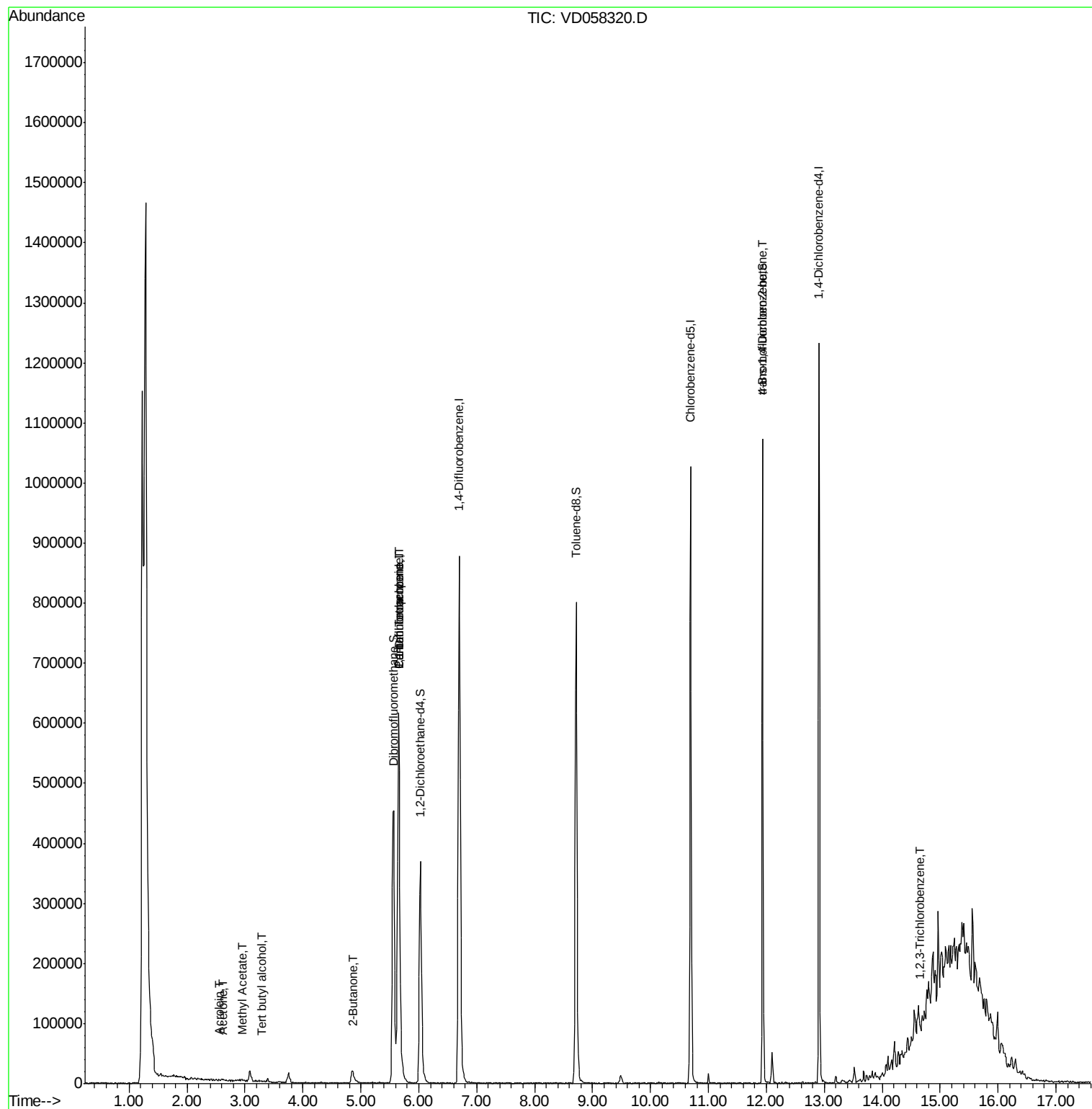
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	859	Below Cal	#	43
3) Chloromethane	1.48	50	596	Below Cal	#	43
5) Bromomethane	1.82	94	273	Below Cal	#	3
11) Tert butyl alcohol	3.28	59	664	3.134	ug/l #	78
13) Acrolein	2.56	56	287	2.373	ug/l #	74
16) Acetone	2.61	43	3006	3.422	ug/l #	62
18) Methyl Acetate	2.94	43	5118	2.732	ug/l #	65
20) Methylene Chloride	3.07	84	7718	Below Cal		94
25) 2-Butanone	4.85	43	2618	1.367	ug/l #	60
31) Cyclohexane	5.65	56	14751	Below Cal	#	1
36) 1,1-Dichloropropene	5.65	75	50836	5.713	ug/l #	50
38) Carbon Tetrachloride	5.65	117	51197	5.790	ug/l #	14
81) trans-1,4-Dichloro-2-buten	11.93	75	134639	149.208	ug/l #	1
82) 4-Chlorotoluene	12.33	91	1346	Below Cal		99
96) 1,2,3-Trichlorobenzene	14.66	180	6974	1.241	ug/l #	72

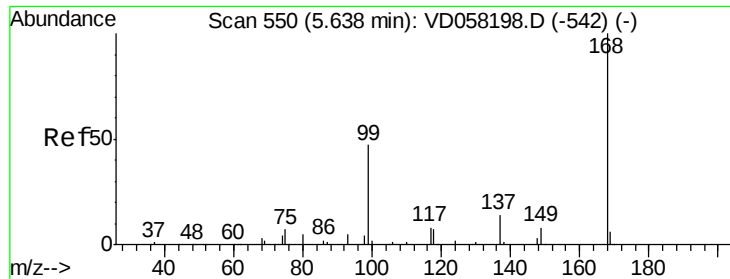
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 20 05:52:56 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.02 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

Instrument :

MSVOA_D

ClientSampleId :

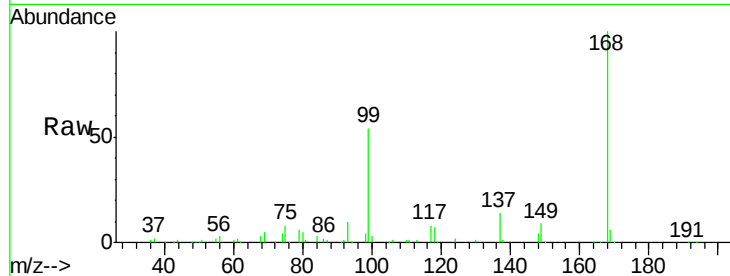
275-137-282-284

Tot Ion:168 Resp: 635980

Ion Ratio Lower Upper

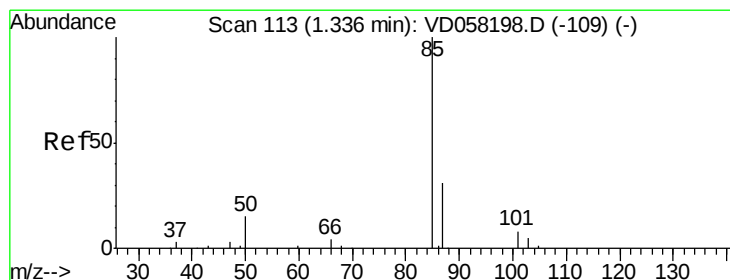
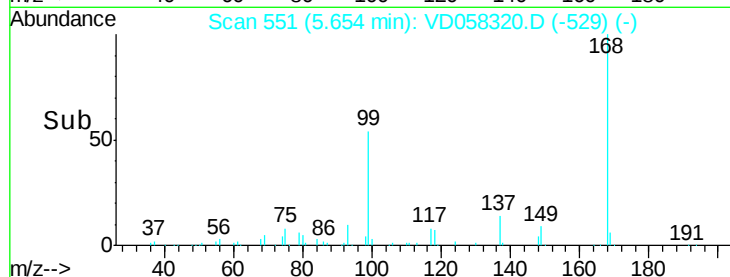
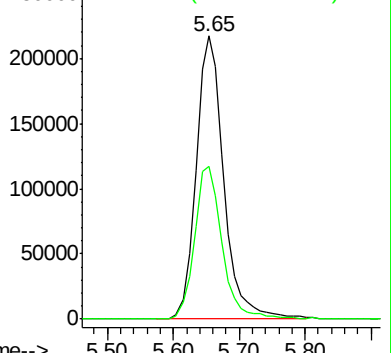
168 100

99 53.9 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.35 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD058320.D

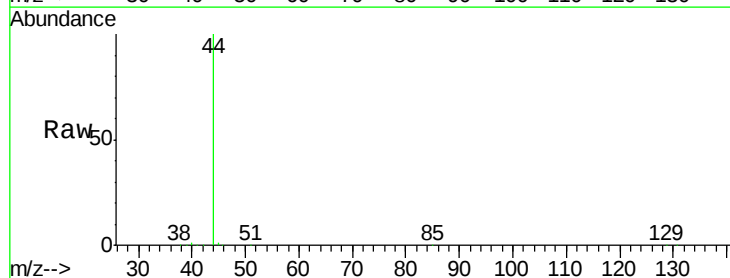
Acq: 23 Jun 2018 4:16

Tgt Ion: 85 Resp: 859

Ion Ratio Lower Upper

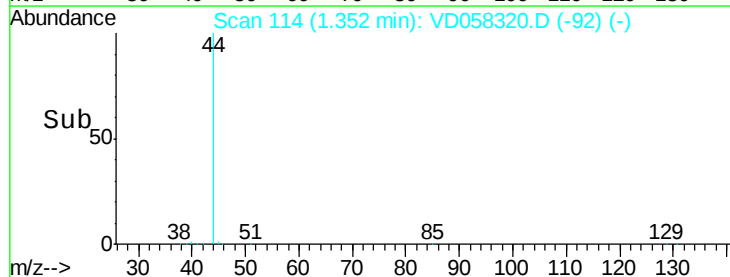
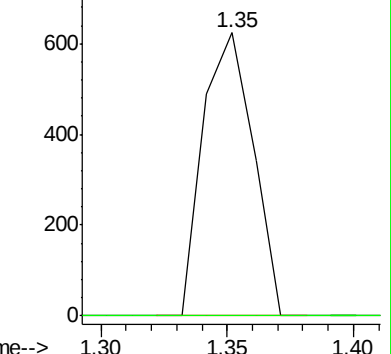
85 100

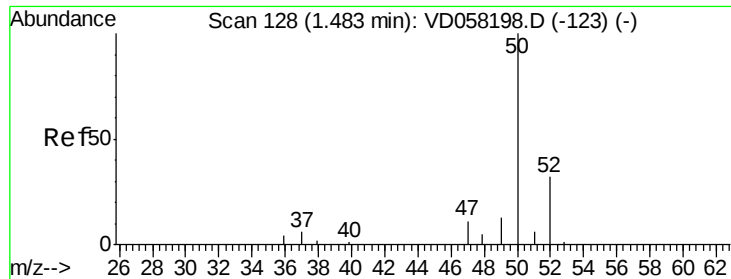
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 1.48 min Scan# 127

Delta R.T. -0.00 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

Instrument :

MSVOA_D

ClientSampleId :

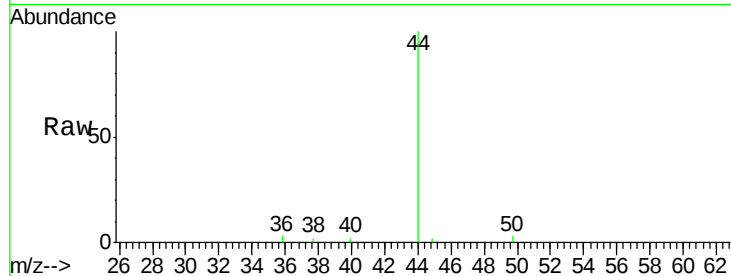
275-137-282-284

Tot Ion: 50 Resp: 596

Ion Ratio Lower Upper

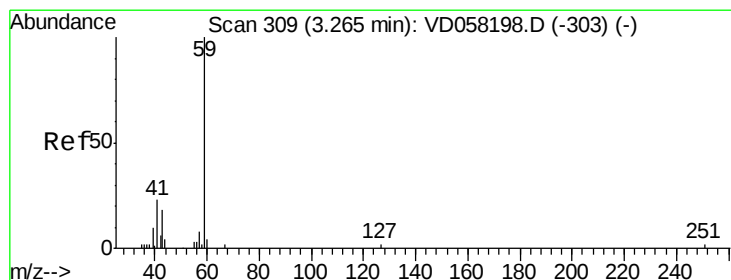
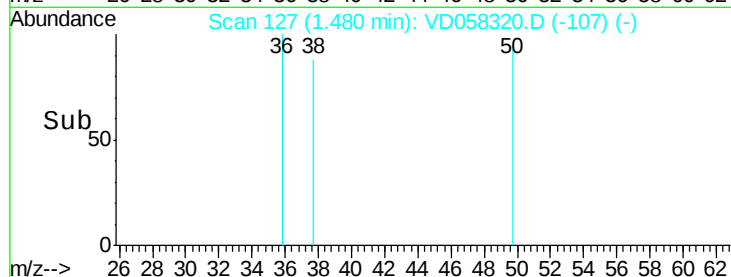
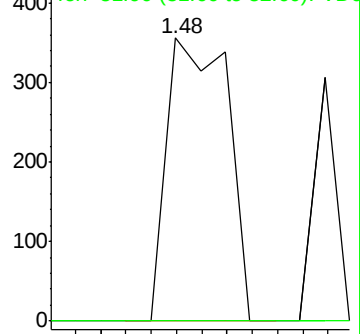
50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#11

Tert butyl alcohol

Concen: 3.134 ug/l

RT: 3.28 min Scan# 310

Delta R.T. 0.02 min

Lab File: VD058320.D

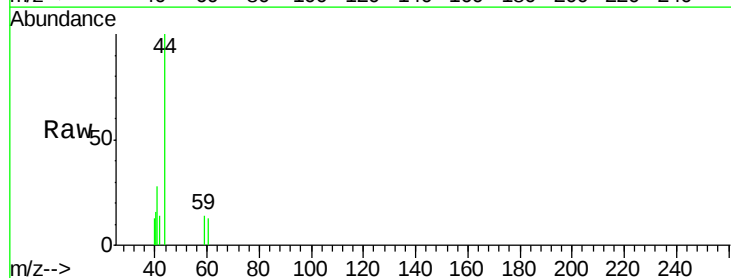
Acq: 23 Jun 2018 4:16

Tgt Ion: 59 Resp: 664

Ion Ratio Lower Upper

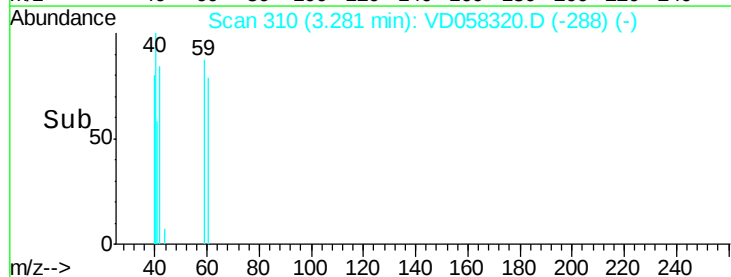
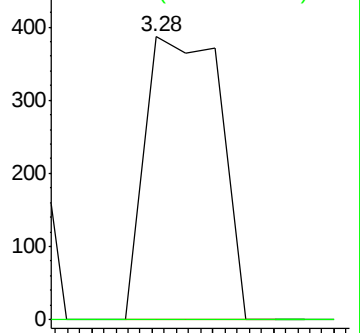
59 100

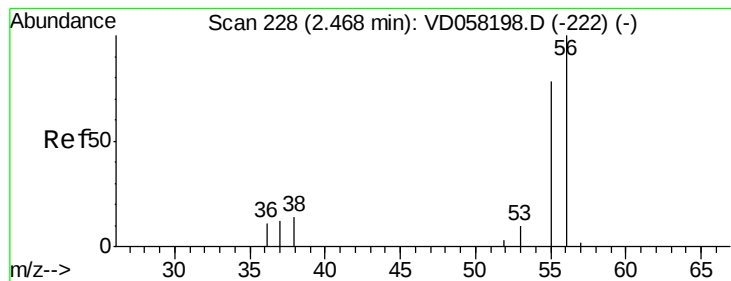
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 2.373 ug/l

RT: 2.56 min Scan# 237

Delta R.T. 0.09 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

Instrument :

MSVOA_D

ClientSampleId :

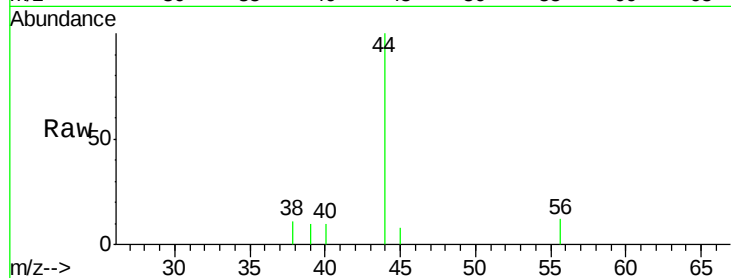
275-137-282-284

Tot Ion: 56 Resp: 287

Ion Ratio Lower Upper

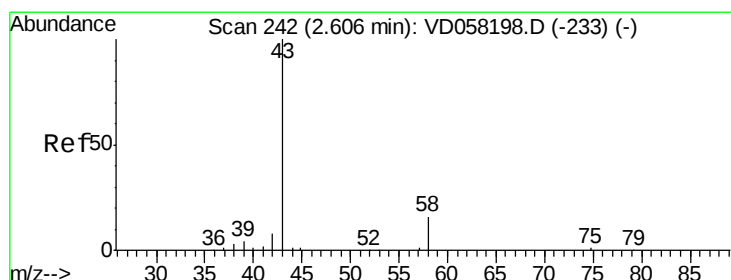
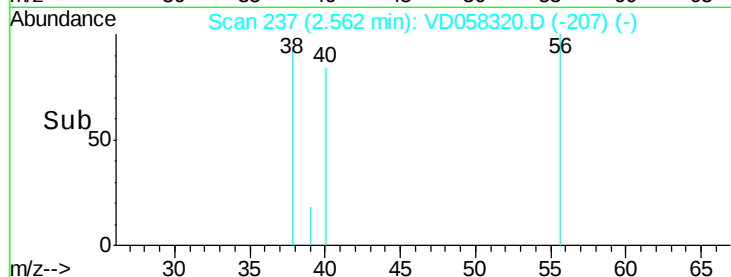
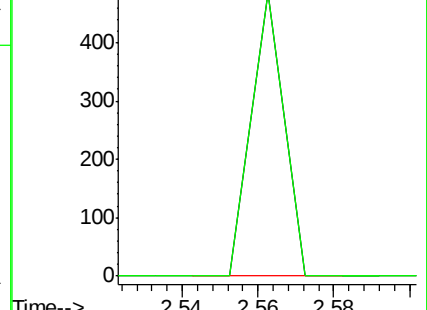
56 100

55 100.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 3.422 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD058320.D

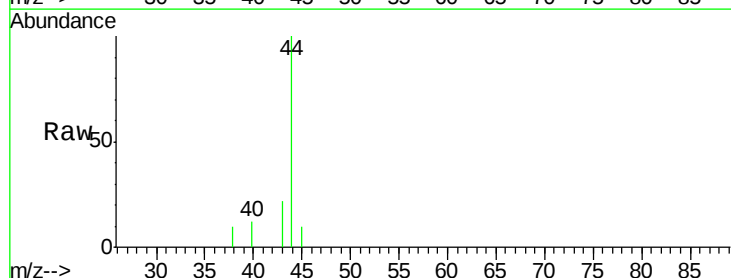
Acq: 23 Jun 2018 4:16

Tgt Ion: 43 Resp: 3006

Ion Ratio Lower Upper

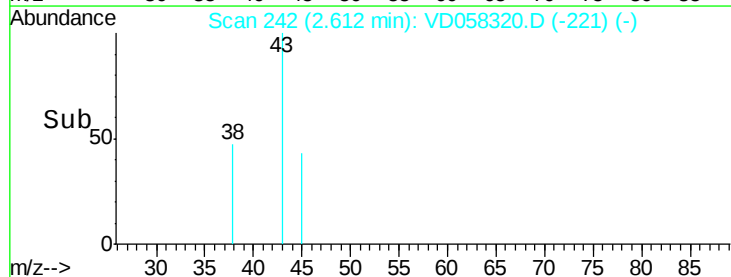
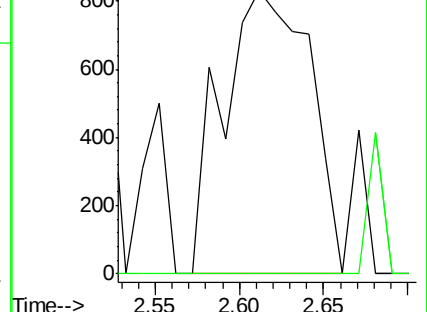
43 100

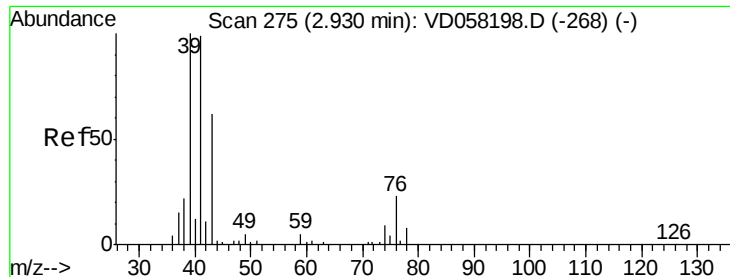
58 0.0 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

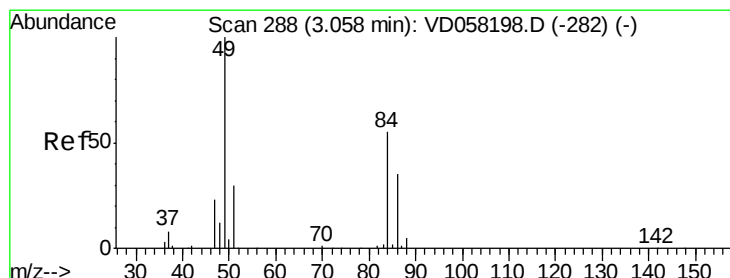
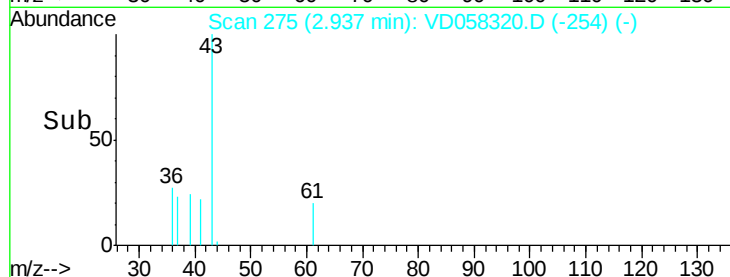
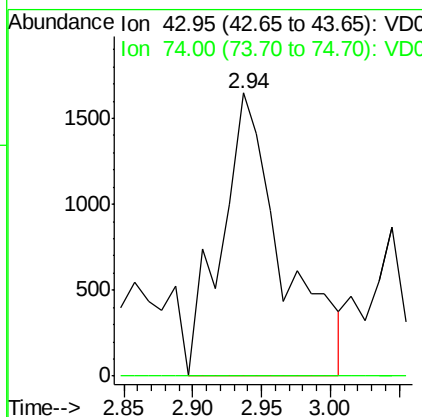
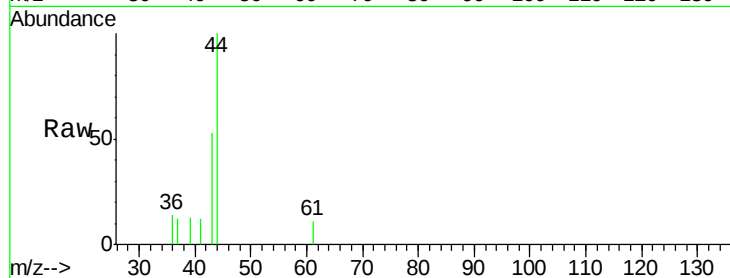




#18
Methyl Acetate
Concen: 2.732 ug/l
RT: 2.94 min Scan# 275
Delta R.T. 0.01 min
Lab File: VD058320.D
Acq: 23 Jun 2018 4:16

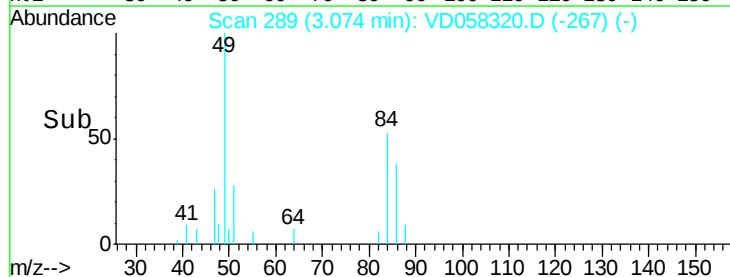
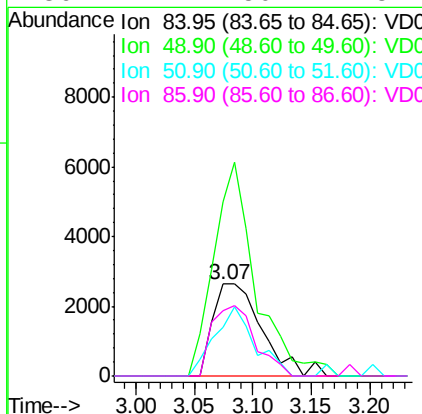
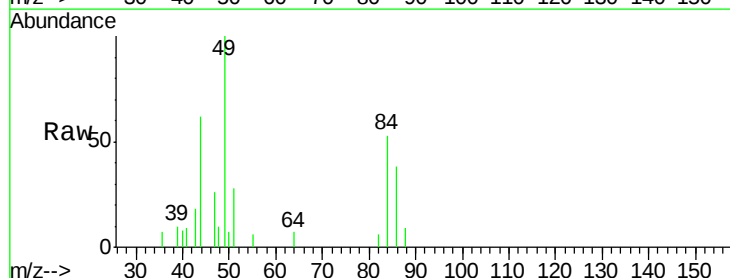
Instrument :
MSVOA_D
ClientSampleId :
275-137-282-284

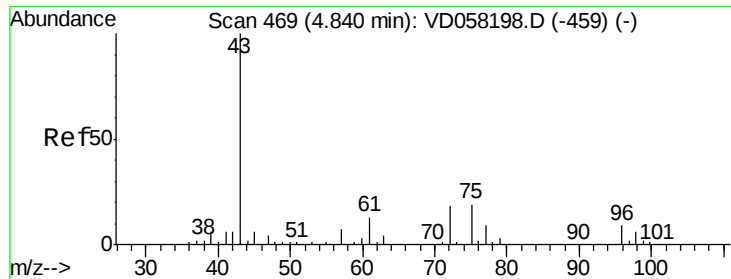
Tot Ion: 43 Resp: 5118
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.07 min Scan# 289
Delta R.T. 0.02 min
Lab File: VD058320.D
Acq: 23 Jun 2018 4:16

Tgt Ion: 84 Resp: 7718
Ion Ratio Lower Upper
84 100
49 189.3 145.0 217.6
51 52.7 42.9 64.3
86 71.1 50.1 75.1





#25

2-Butanone

Concen: 1.367 ug/l

RT: 4.85 min Scan# 469

Delta R.T. 0.01 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

Instrument :

MSVOA_D

ClientSampleId :

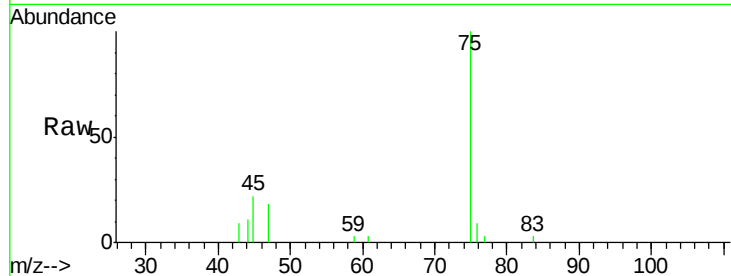
275-137-282-284

Tot Ion: 43 Resp: 2618

Ion Ratio Lower Upper

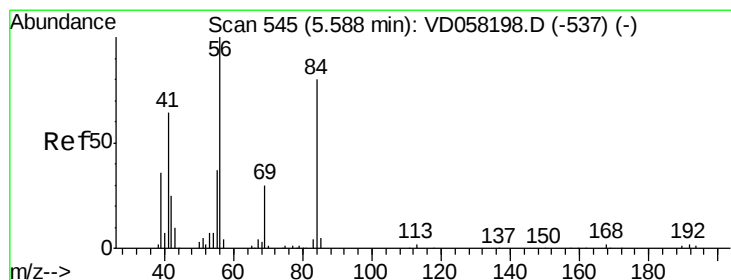
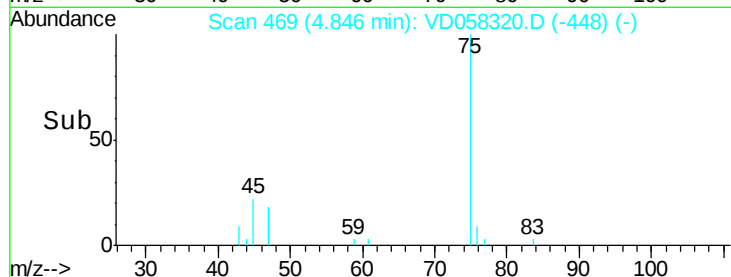
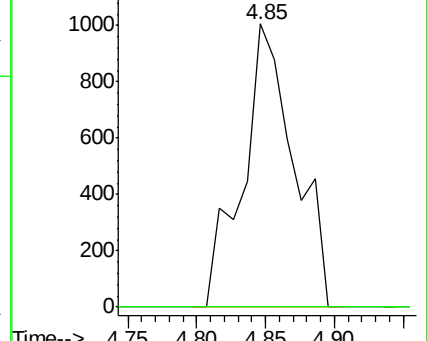
43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.07 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

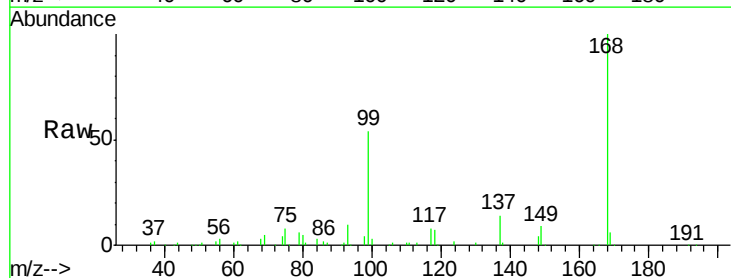
Tgt Ion: 56 Resp: 14751

Ion Ratio Lower Upper

56 100

69 174.4 23.6 35.4#

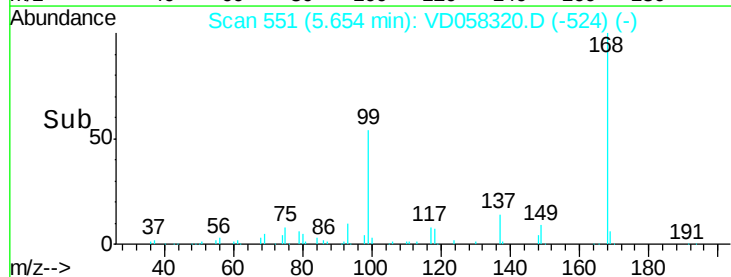
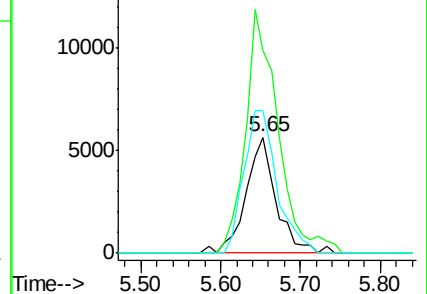
84 122.5 65.2 97.8#

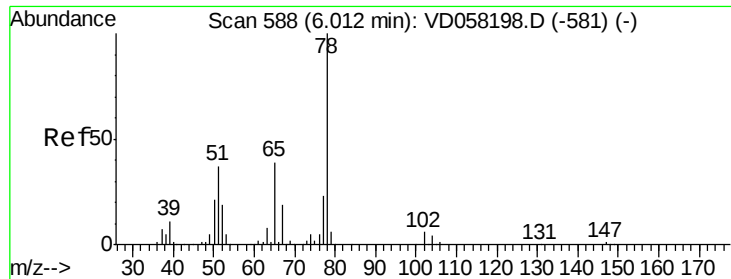


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.03 min Scan# 589

Delta R.T. 0.02 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

Instrument :

MSVOA_D

ClientSampleId :

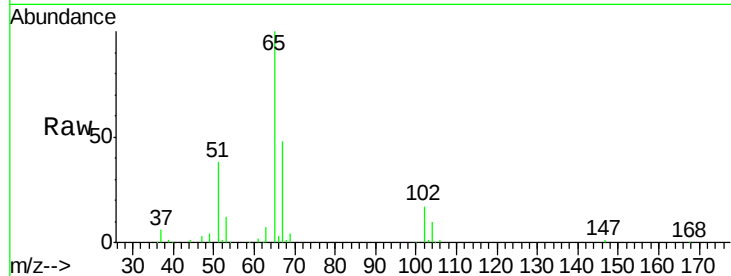
275-137-282-284

Tot Ion: 65 Resp: 364412

Ion Ratio Lower Upper

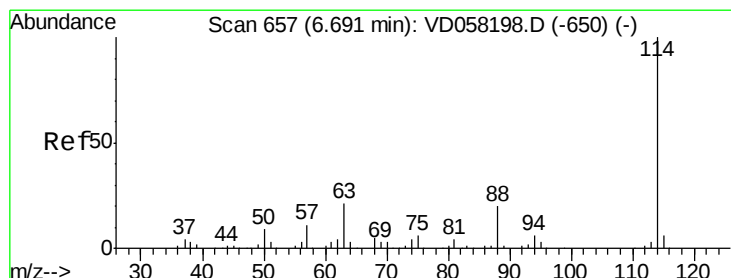
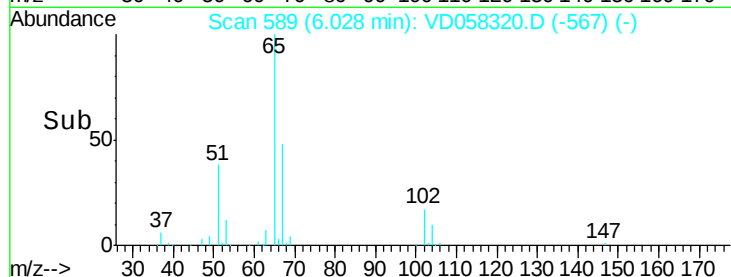
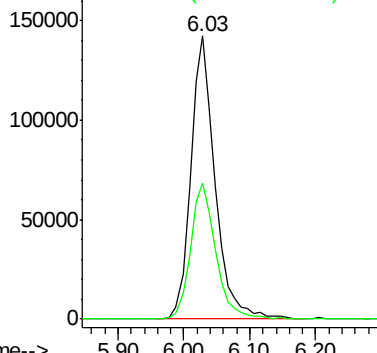
65 100

67 48.0 0.0 97.8



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: 6.70 min Scan# 657

Delta R.T. 0.01 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

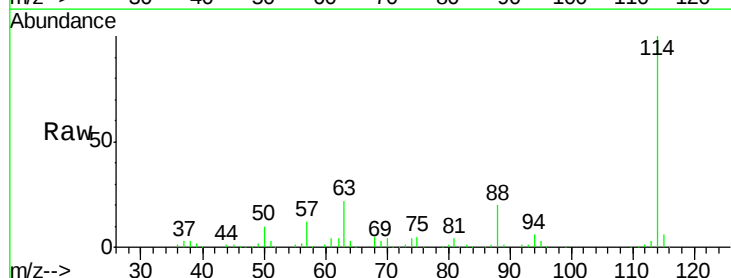
Tgt Ion: 114 Resp: 899559

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.6

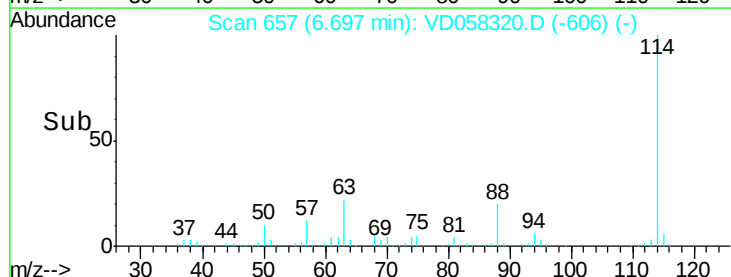
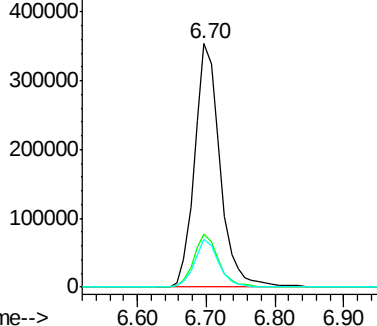
88 19.5 0.0 40.6

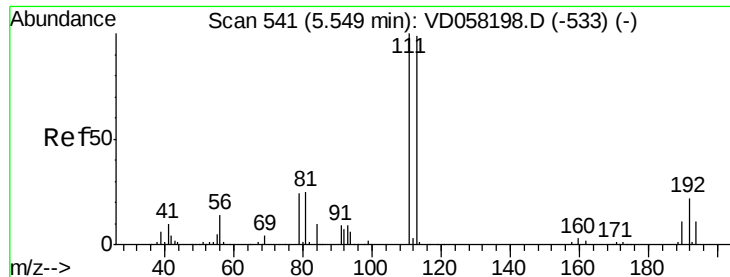


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.57 min Scan# 542

Delta R.T. 0.02 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

Instrument :
MSVOA_D
ClientSampleId :
275-137-282-284

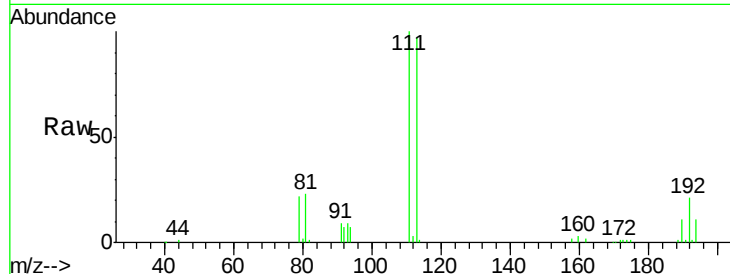
Tot Ion:113 Resp: 384823

Ion Ratio Lower Upper

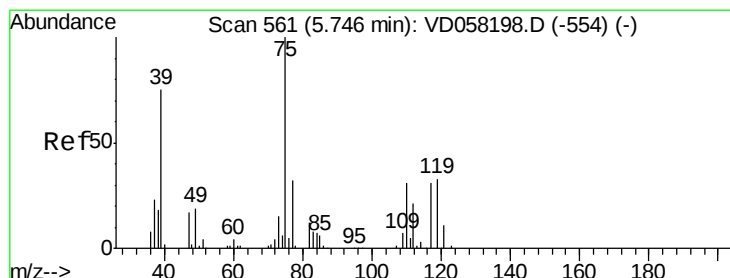
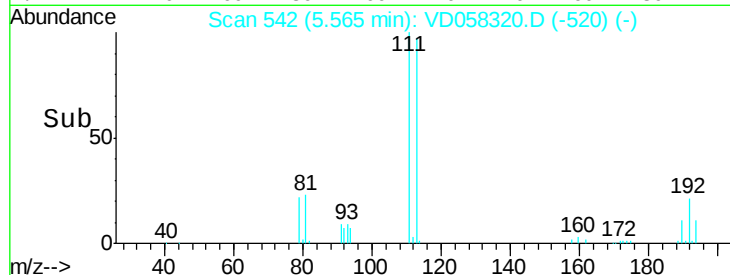
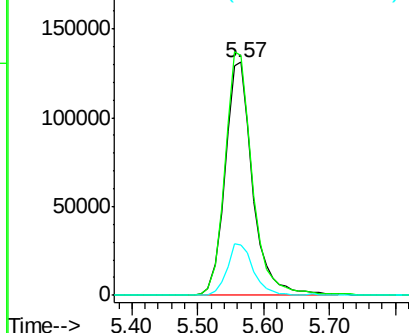
113 100

111 103.1 80.6 121.0

192 21.5 17.8 26.6



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: 5.713 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.09 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

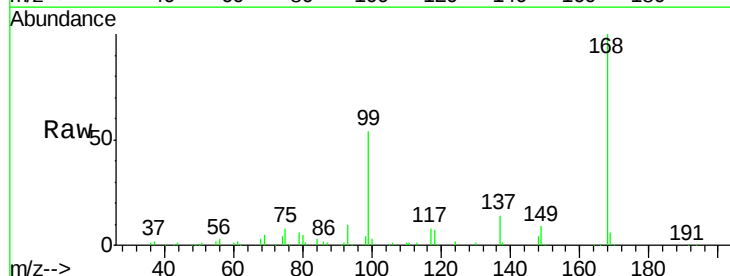
Tgt Ion: 75 Resp: 50836

Ion Ratio Lower Upper

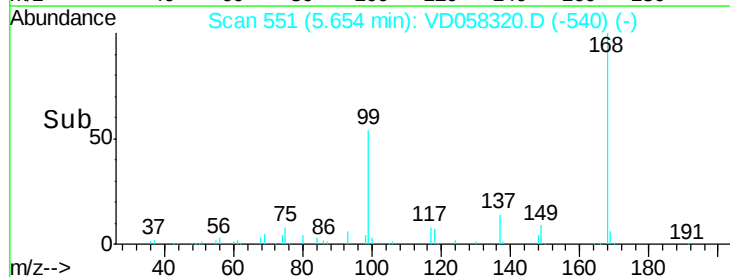
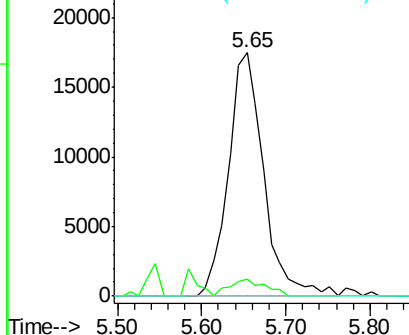
75 100

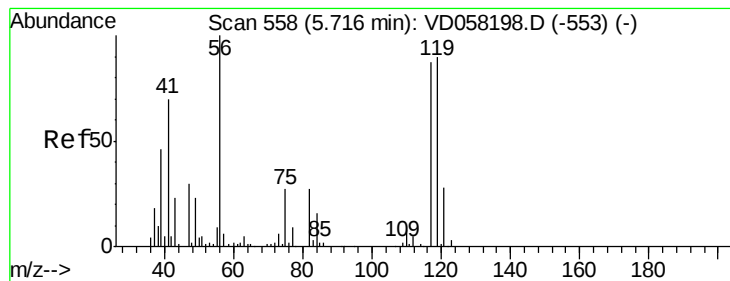
110 7.2 15.4 46.4#

77 0.0 25.4 38.2#



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





#38

Carbon Tetrachloride

Concen: 5.790 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.06 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

Instrument :

MSVOA_D

ClientSampleId :

275-137-282-284

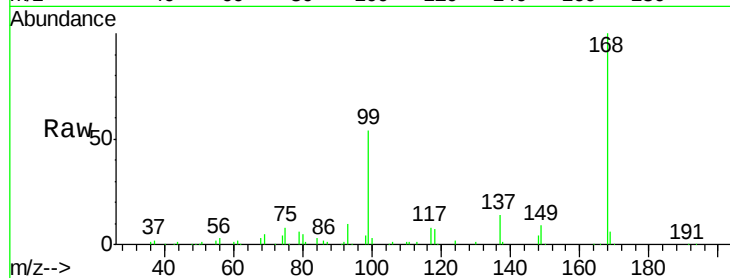
Tot Ion:117 Resp: 51197

Ion Ratio Lower Upper

117 100

119 3.8 78.8 118.2#

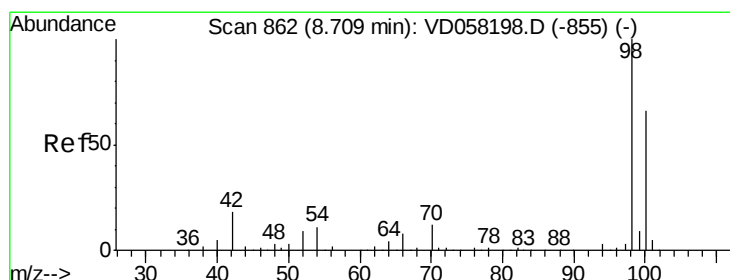
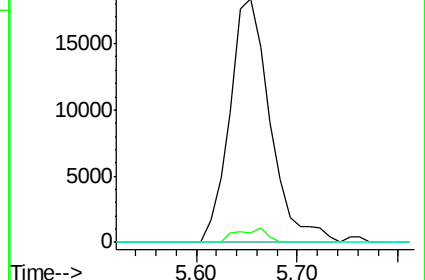
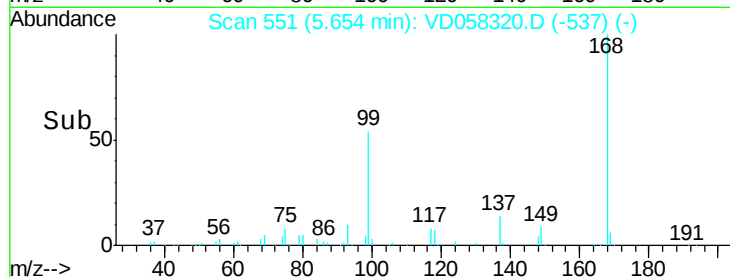
121 0.0 25.0 37.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 862

Delta R.T. 0.01 min

Lab File: VD058320.D

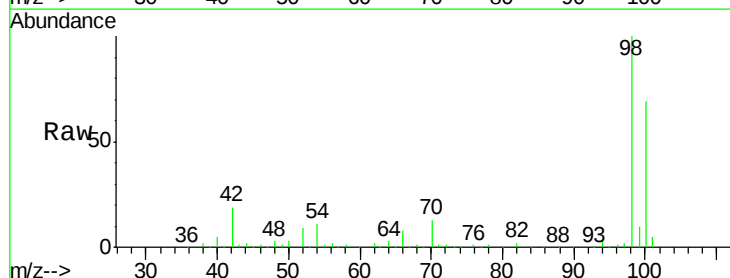
Acq: 23 Jun 2018 4:16

Tgt Ion: 98 Resp: 632597

Ion Ratio Lower Upper

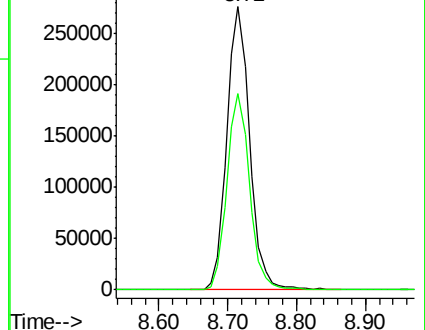
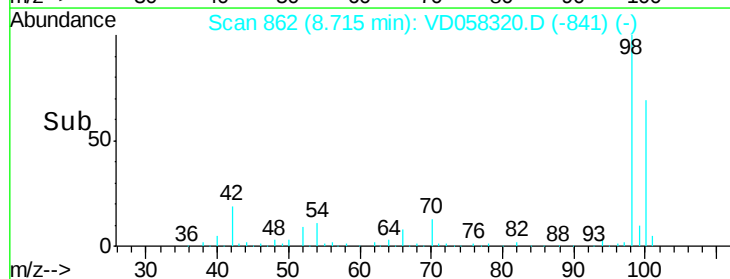
98 100

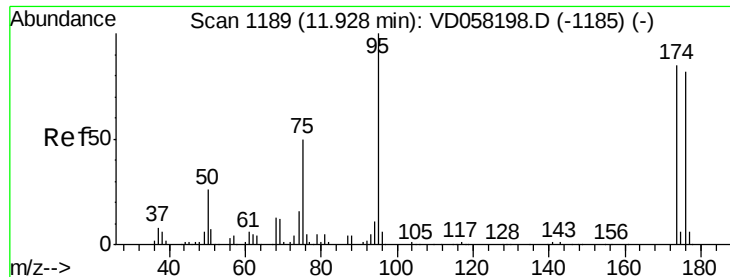
100 69.4 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

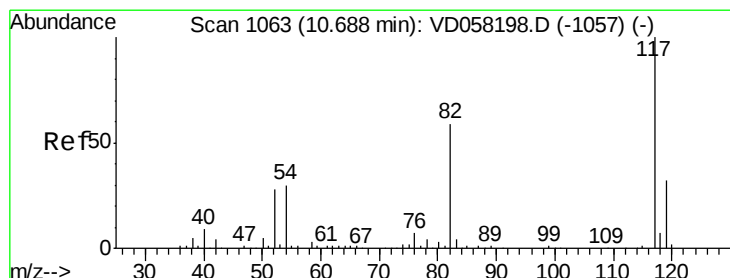
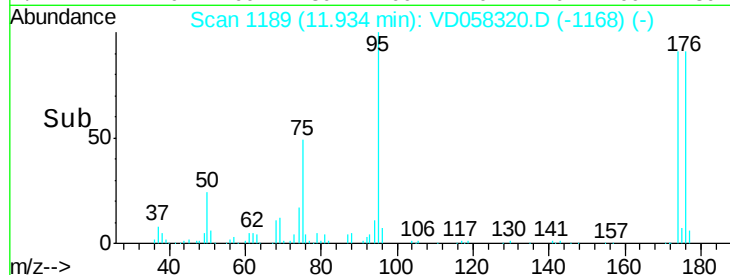
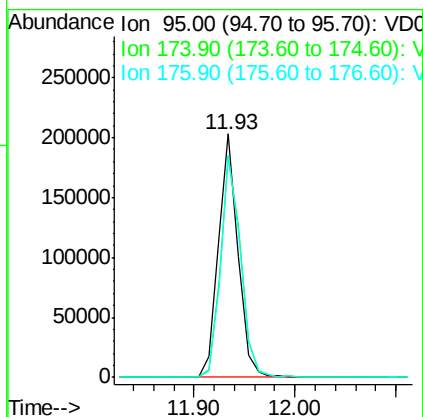
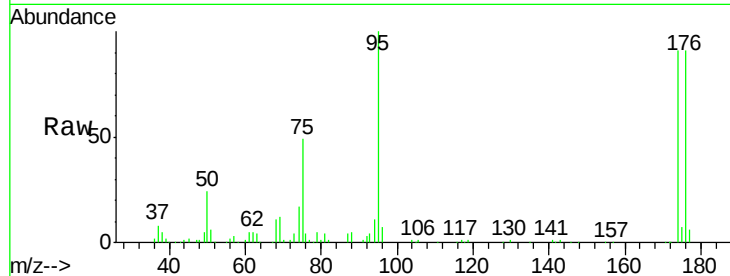




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.01 min
Lab File: VD058320.D
Acq: 23 Jun 2018 4:16

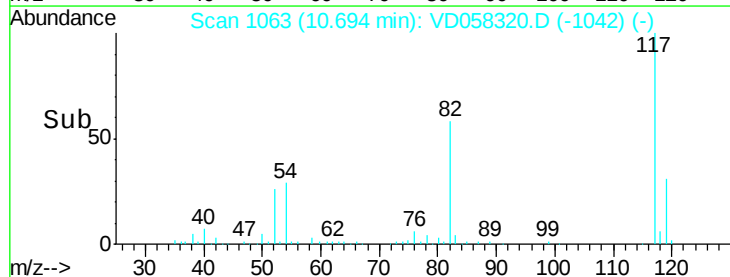
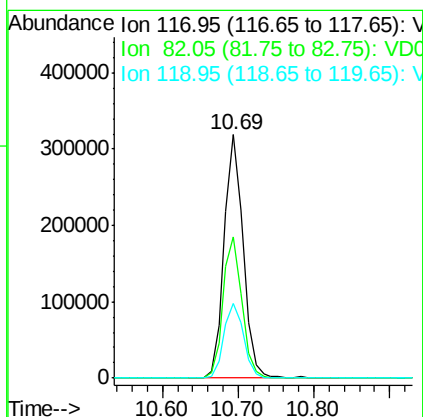
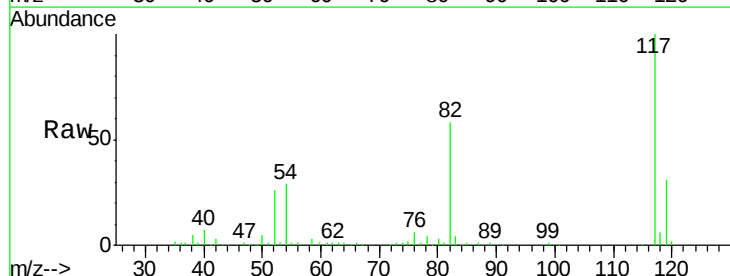
Instrument :
MSVOA_D
ClientSampleId :
275-137-282-284

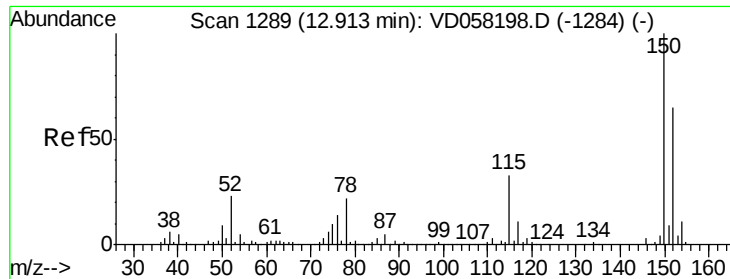
Tot Ion: 95 Resp: 276502
Ion Ratio Lower Upper
95 100
174 90.7 0.0 170.2
176 91.1 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.01 min
Lab File: VD058320.D
Acq: 23 Jun 2018 4:16

Tgt Ion: 117 Resp: 556254
Ion Ratio Lower Upper
117 100
82 57.9 47.0 70.6
119 30.7 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

Instrument :

MSVOA_D

ClientSampleId :

275-137-282-284

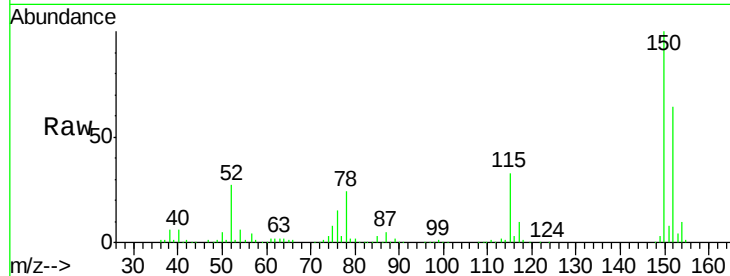
Tot Ion:152 Resp: 253407

Ion Ratio Lower Upper

152 100

115 52.5 25.1 75.3

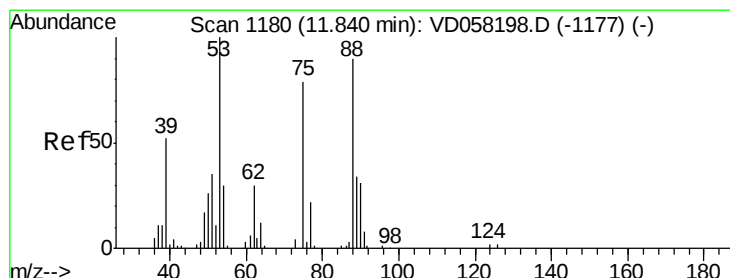
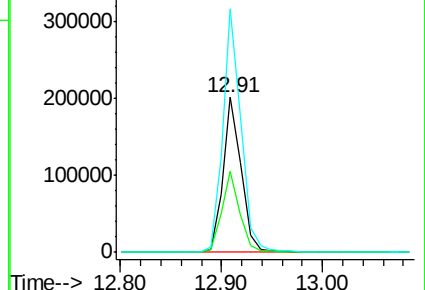
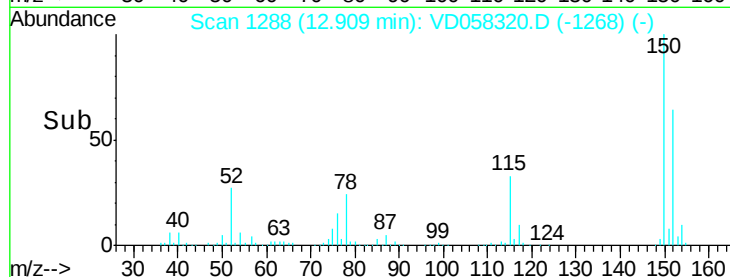
150 157.1 0.0 308.8



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: 149.208 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058320.D

Acq: 23 Jun 2018 4:16

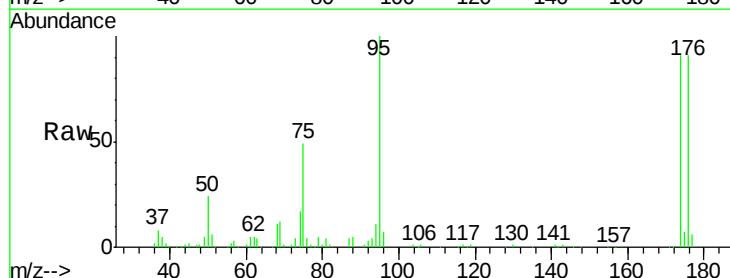
Tgt Ion: 75 Resp: 134639

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

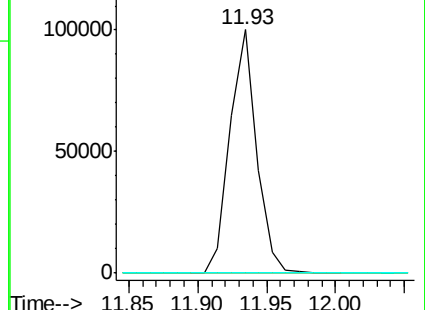
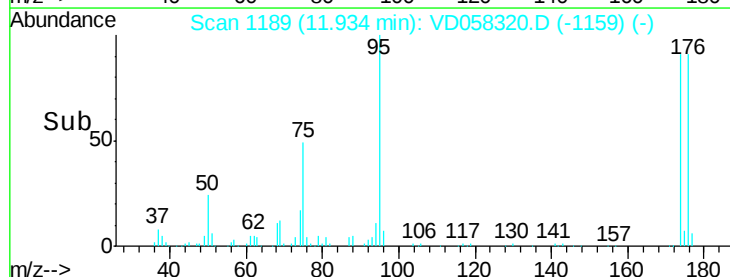
89 0.0 34.6 52.0#

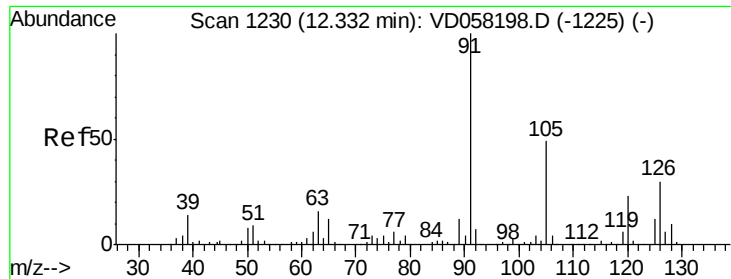


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

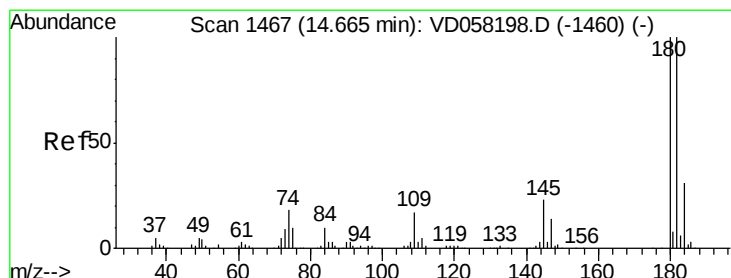
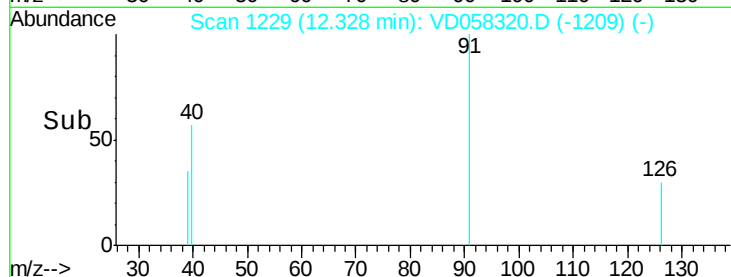
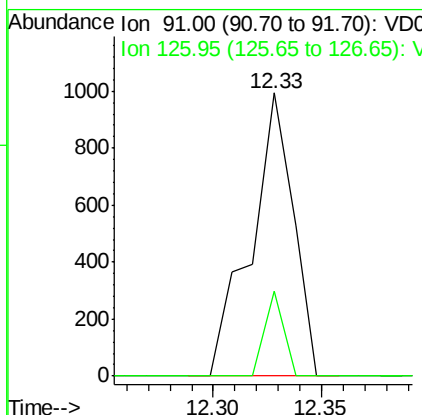
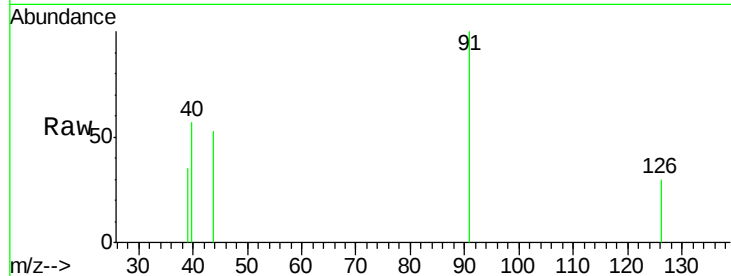




#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.33 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VD058320.D
 Acq: 23 Jun 2018 4:16

Instrument :
 MSVOA_D
 ClientSampleId :
 275-137-282-284

Tot Ion: 91 Resp: 1346
 Ion Ratio Lower Upper
 91 100
 126 30.2 14.9 44.9



#96
 1,2,3-Trichlorobenzene
 Concen: 1.241 ug/l
 RT: 14.66 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VD058320.D
 Acq: 23 Jun 2018 4:16

Tgt Ion: 180 Resp: 6974
 Ion Ratio Lower Upper
 180 100
 182 76.4 49.9 149.6
 145 47.4 11.7 35.1#

