

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062918\
 Data File : VD059495.D
 Acq On : 29 Jun 2018 16:49
 Operator : VA/AP
 Sample : J3248-09RE
 Misc : 6.69g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 30 00:26:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	614587	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	6.68	114	804106	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.69	117	624965	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	292978	50.00	ug/l	0.00

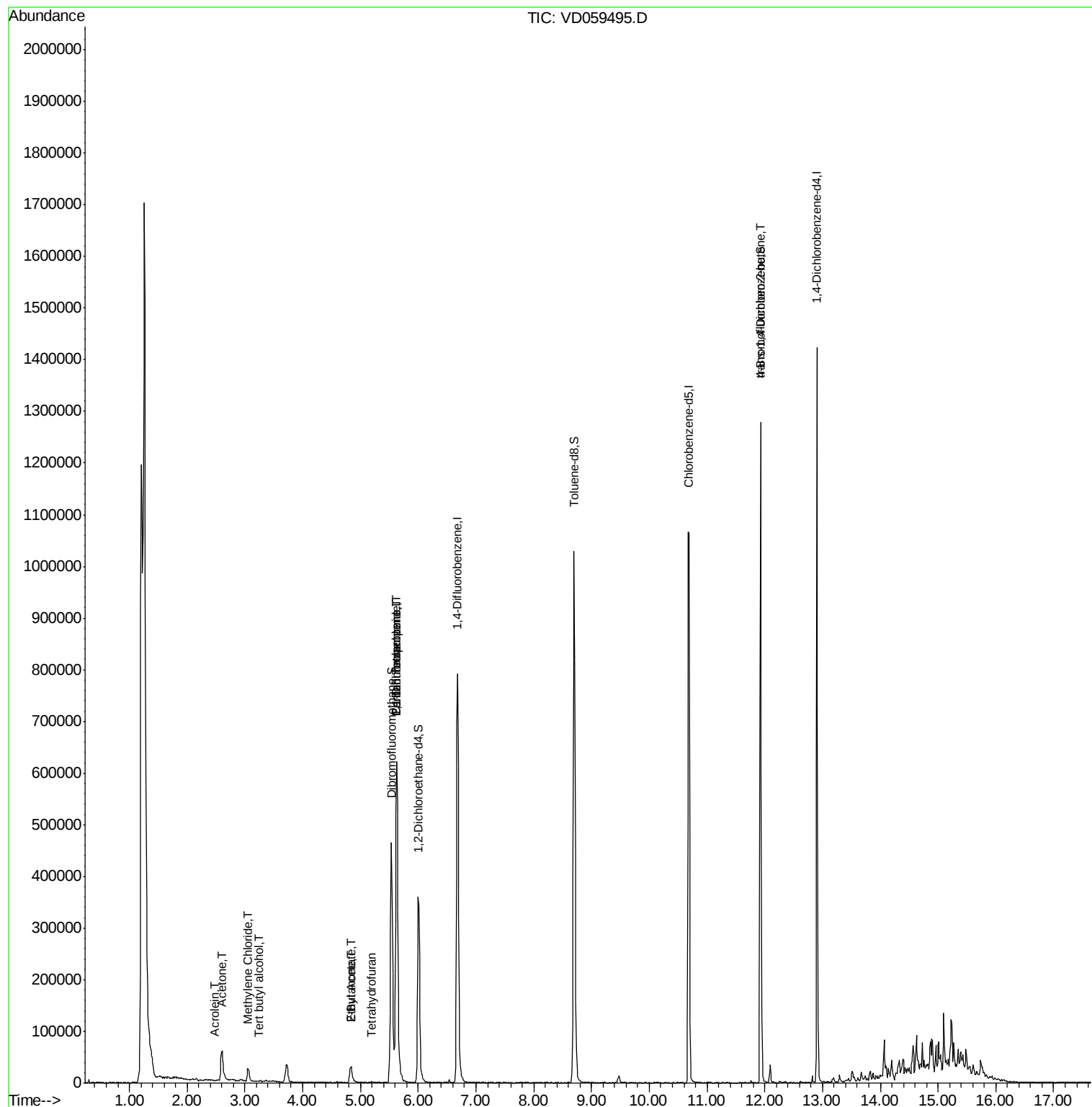
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.00	65	364326	57.97	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	115.94%	
35) Dibromofluoromethane	5.54	113	374840	57.23	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	114.46%	
50) Toluene-d8	8.70	98	814449	53.19	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	106.38%	
62) 4-Bromofluorobenzene	11.93	95	320391	50.31	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.62%	

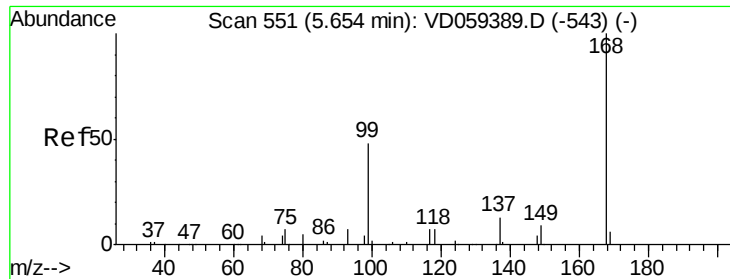
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.82	94	334	Below Cal	#	4
11) Tert butyl alcohol	3.25	59	218	1.003	ug/l #	72
13) Acrolein	2.47	56	216	1.111	ug/l #	16
16) Acetone	2.61	43	123307	155.450	ug/l	98
18) Methyl Acetate	2.93	43	5184	Below Cal	#	66
20) Methylene Chloride	3.05	84	10611	2.451	ug/l #	86
25) 2-Butanone	4.83	43	6539	3.935	ug/l #	57
29) Tetrahydrofuran	5.17	42	1174	1.292	ug/l #	85
31) Cyclohexane	5.62	56	12641	Below Cal	#	1
36) 1,1-Dichloropropene	5.63	75	47639	6.531	ug/l #	51
37) Ethyl Acetate	4.83	43	6539	1.472	ug/l #	89
38) Carbon Tetrachloride	5.63	117	50458	6.709	ug/l #	16
81) trans-1,4-Dichloro-2-buten	11.93	75	157701	171.690	ug/l #	1

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.03 min

Lab File: VD059495.D

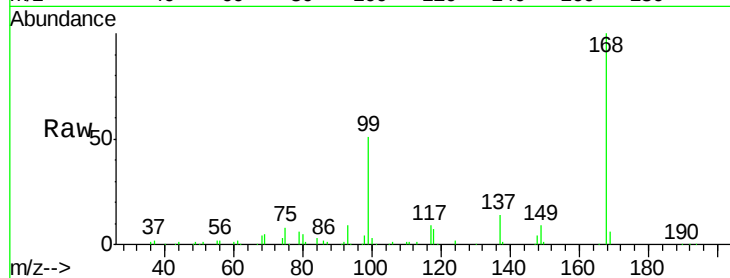
Acq: 29 Jun 2018 16:49

Tot Ion:168 Resp: 614587

Ion Ratio Lower Upper

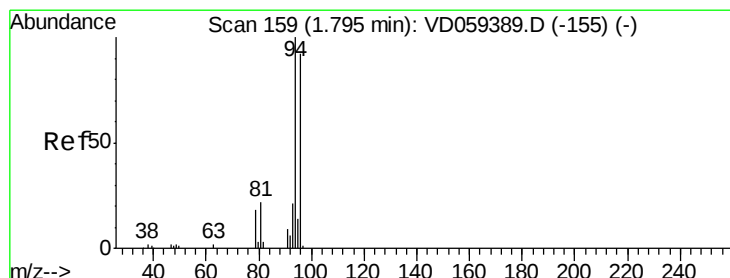
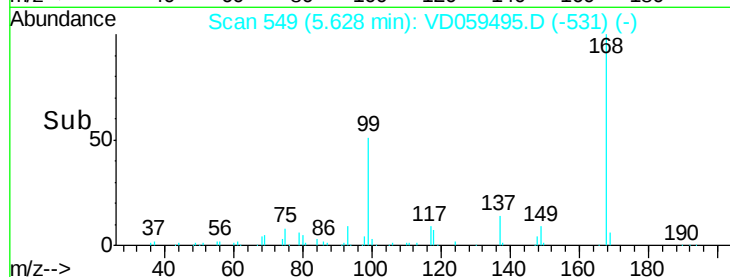
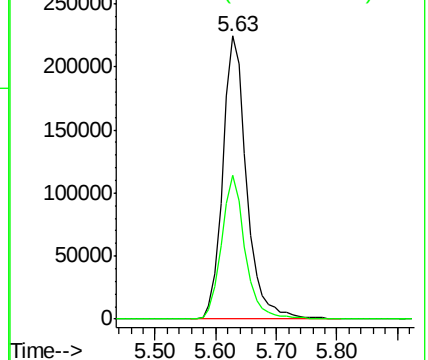
168 100

99 50.6 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 1.82 min Scan# 162

Delta R.T. 0.02 min

Lab File: VD059495.D

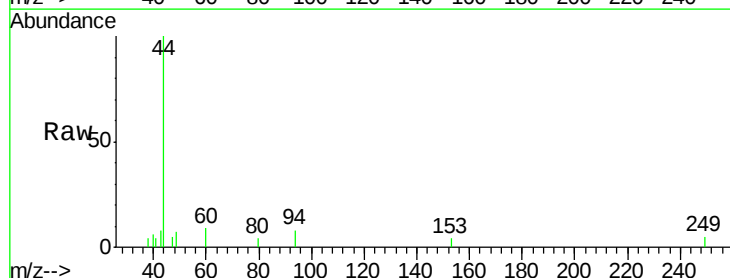
Acq: 29 Jun 2018 16:49

Tgt Ion: 94 Resp: 334

Ion Ratio Lower Upper

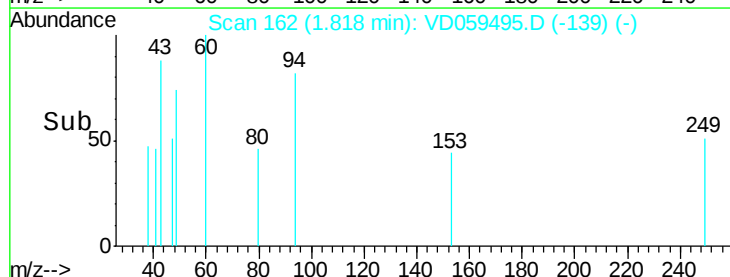
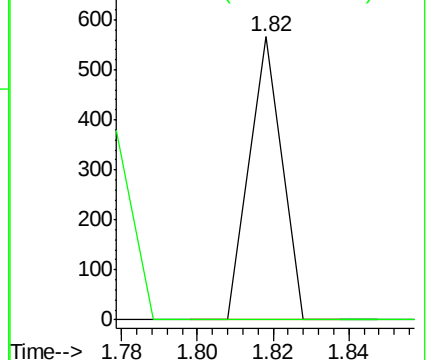
94 100

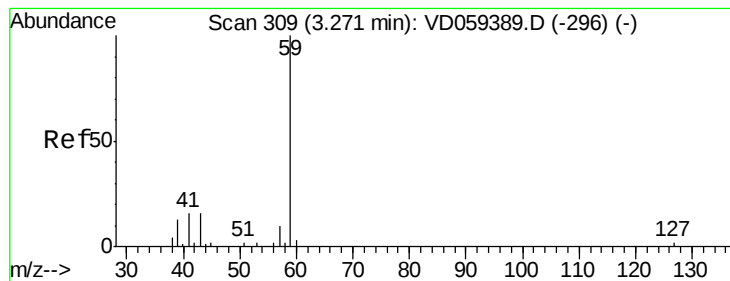
96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

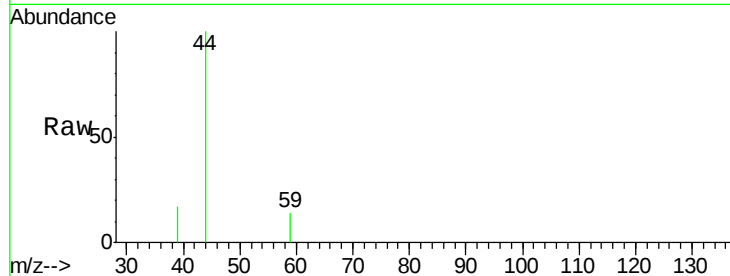




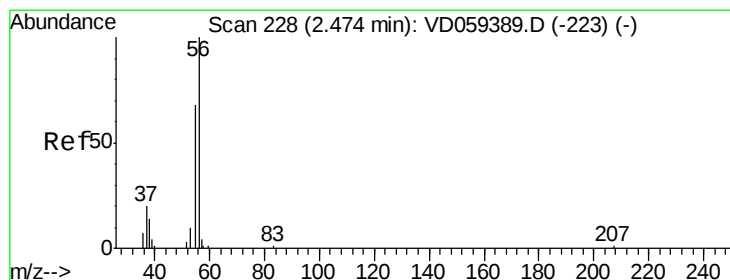
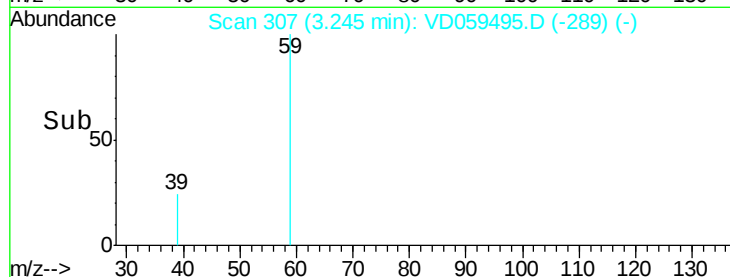
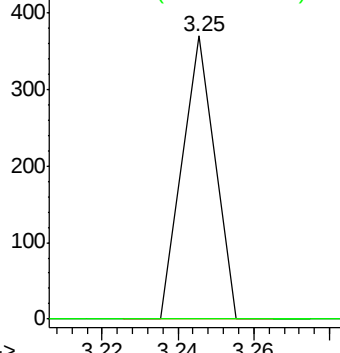
#11

Tert butyl alcohol
 Concen: 1.003 ug/l
 RT: 3.25 min Scan# 307
 Delta R.T. -0.03 min
 Lab File: VD059495.D
 Acq: 29 Jun 2018 16:49

Tot Ion	59	Resp	218
Ion Ratio	100	Lower	Upper
57	0.0	8.3	12.5#



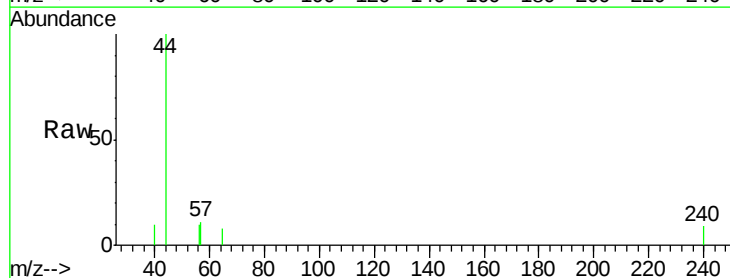
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



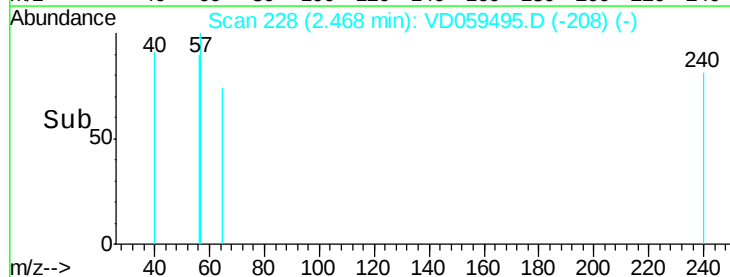
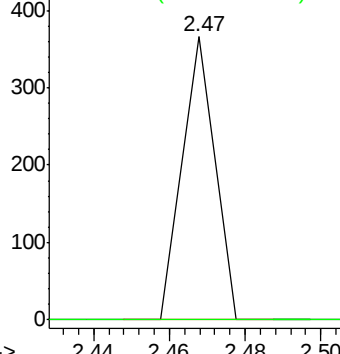
#13

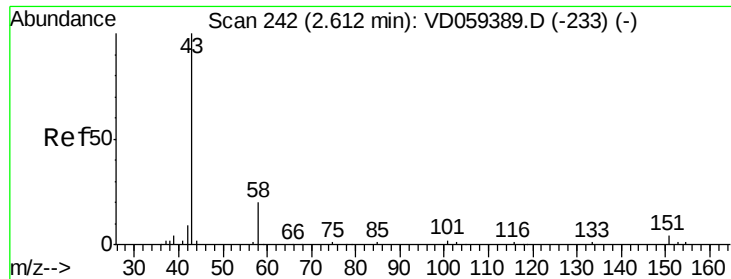
Acrolein
 Concen: 1.111 ug/l
 RT: 2.47 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VD059495.D
 Acq: 29 Jun 2018 16:49

Tgt Ion	56	Resp	216
Ion Ratio	100	Lower	Upper
55	0.0	54.6	82.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC
 Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 155.450 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD059495.D

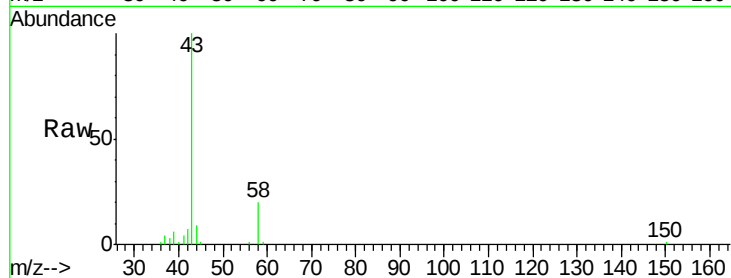
Acq: 29 Jun 2018 16:49

Tot Ion: 43 Resp: 123307

Ion Ratio Lower Upper

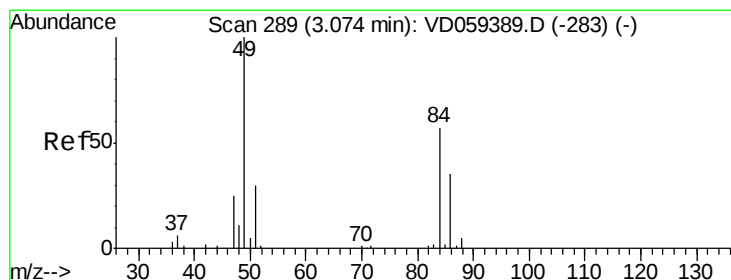
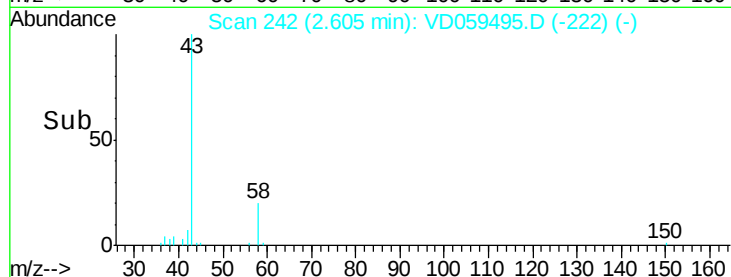
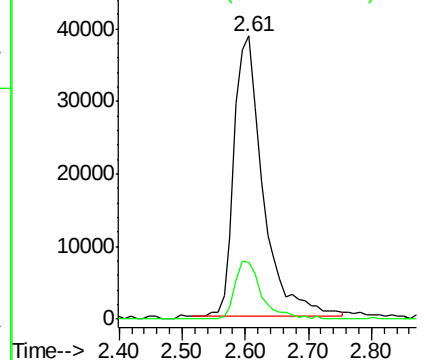
43 100

58 20.0 16.8 25.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.451 ug/l

RT: 3.05 min Scan# 287

Delta R.T. -0.03 min

Lab File: VD059495.D

Acq: 29 Jun 2018 16:49

Tgt Ion: 84 Resp: 10611

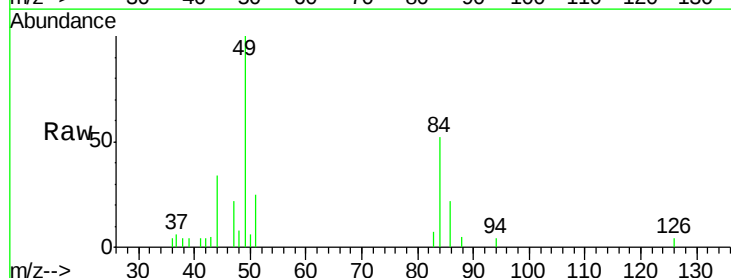
Ion Ratio Lower Upper

84 100

49 193.3 140.3 210.5

51 47.9 41.6 62.4

86 42.4 49.4 74.2#

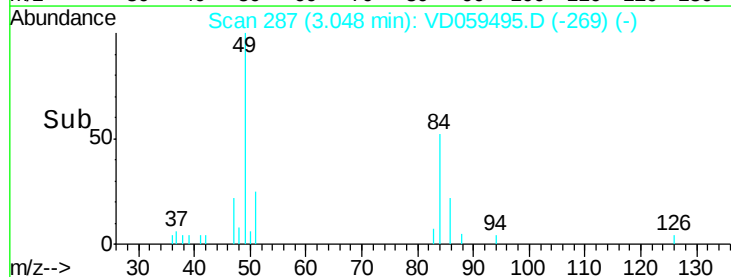
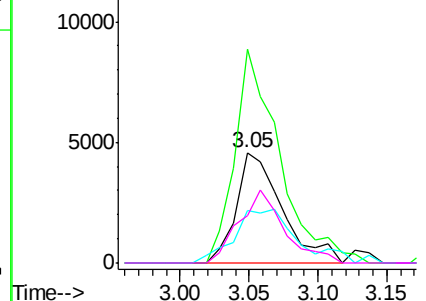


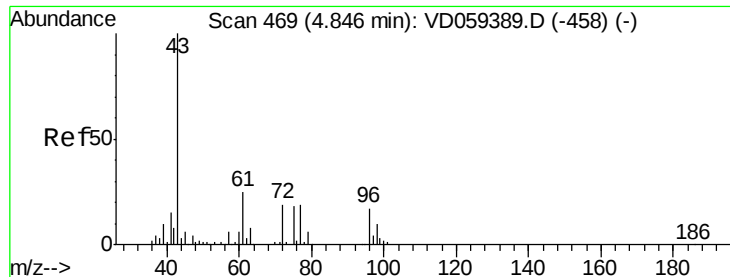
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 3.935 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.02 min

Lab File: VD059495.D

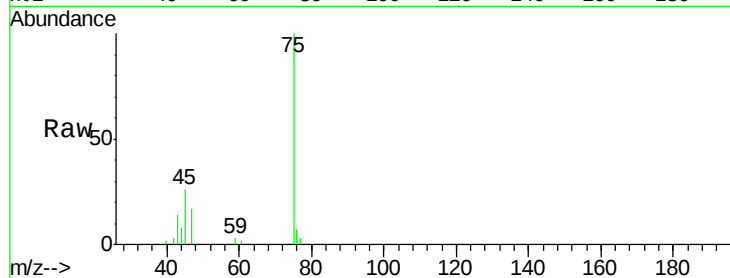
Acq: 29 Jun 2018 16:49

Tot Ion: 43 Resp: 6539

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

2500

2000

1500

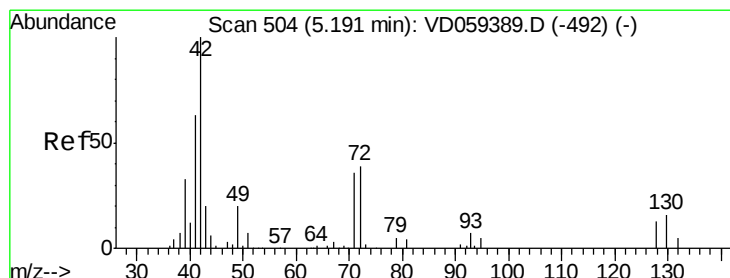
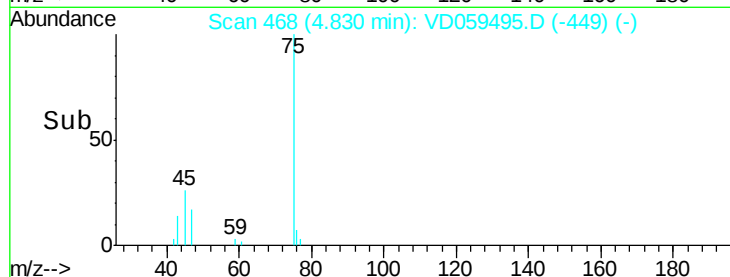
1000

500

0

4.70 4.75 4.80 4.85 4.90

Time-->



#29

Tetrahydrofuran

Concen: 1.292 ug/l

RT: 5.17 min Scan# 503

Delta R.T. -0.02 min

Lab File: VD059495.D

Acq: 29 Jun 2018 16:49

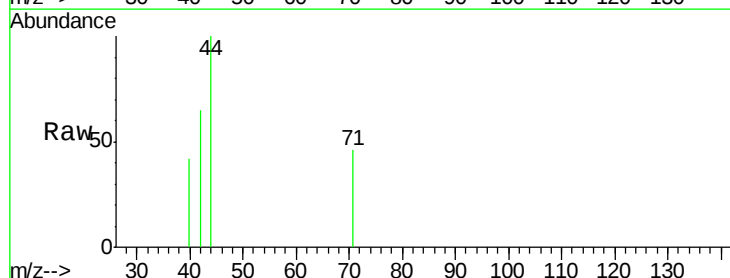
Tgt Ion: 42 Resp: 1174

Ion Ratio Lower Upper

42 100

72 22.1 31.4 47.2#

71 36.8 29.7 44.5



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

600

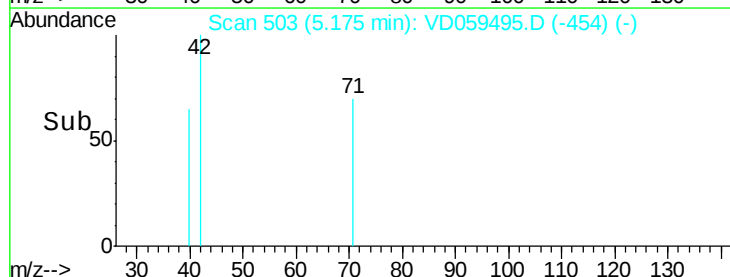
400

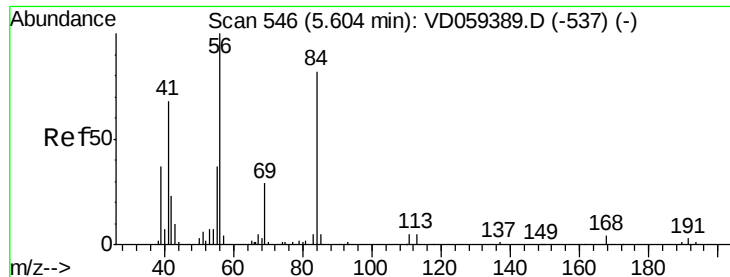
200

0

5.15 5.20 5.25

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 5.62 min Scan# 548

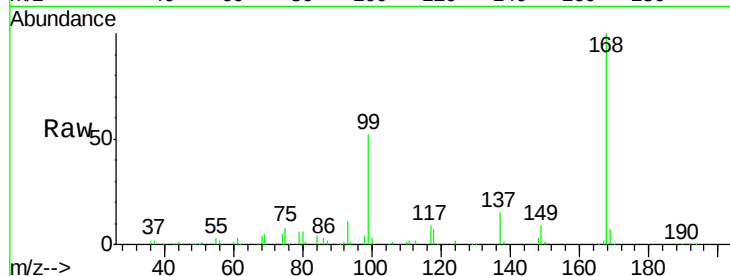
Delta R.T. 0.01 min

Lab File: VD059495.D

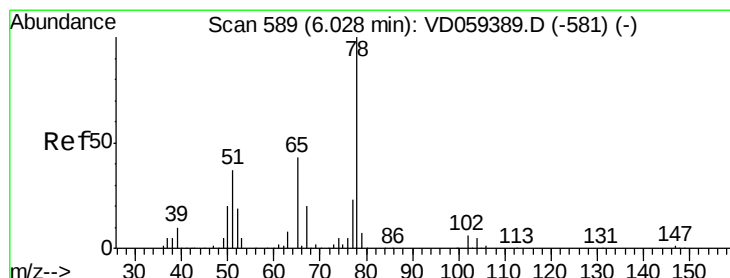
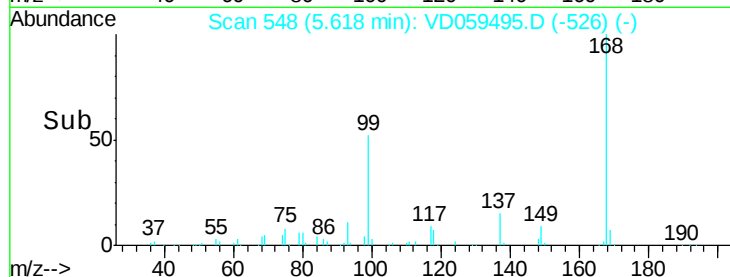
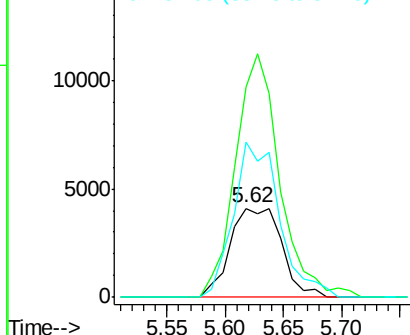
Acq: 29 Jun 2018 16:49

Tot Ion: 56 Resp: 12641

Ion	Ratio	Lower	Upper
56	100		
69	235.9	22.9	34.3#
84	174.8	67.3	100.9#



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: Below ug/l

RT: 6.00 min Scan# 587

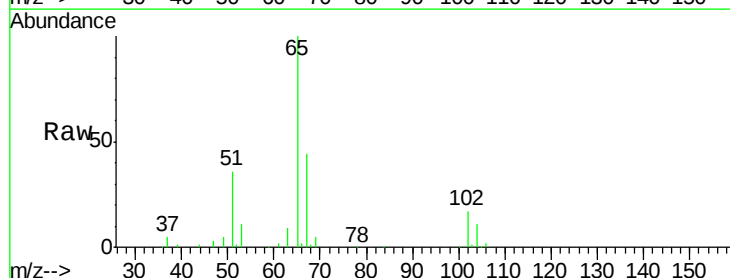
Delta R.T. -0.03 min

Lab File: VD059495.D

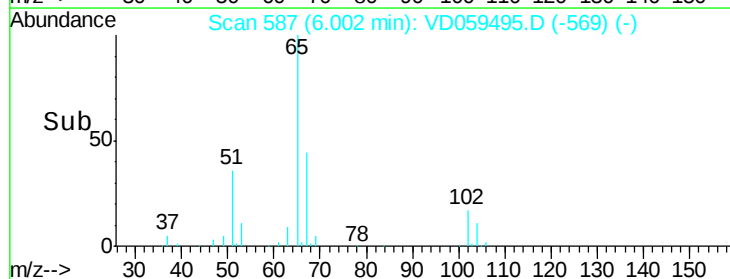
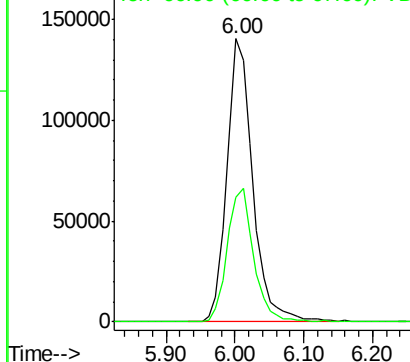
Acq: 29 Jun 2018 16:49

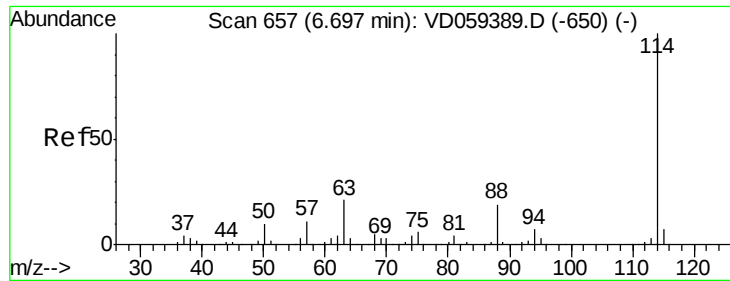
Tgt Ion: 65 Resp: 364326

Ion	Ratio	Lower	Upper
65	100		
67	43.8	0.0	93.8



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: 6.68 min Scan# 656

Delta R.T. -0.02 min

Lab File: VD059495.D

Acq: 29 Jun 2018 16:49

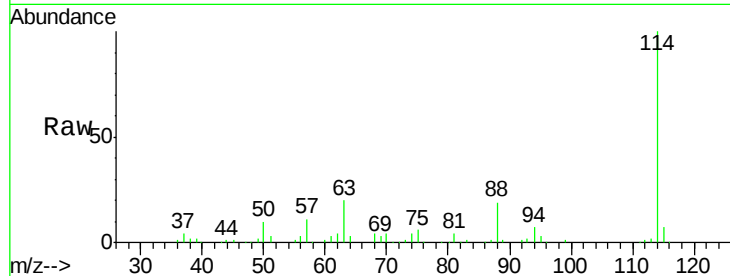
Tot Ion:114 Resp: 804106

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

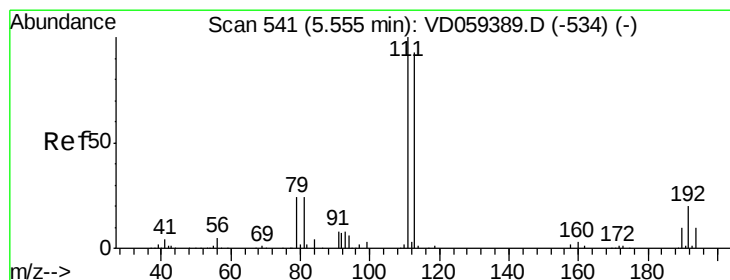
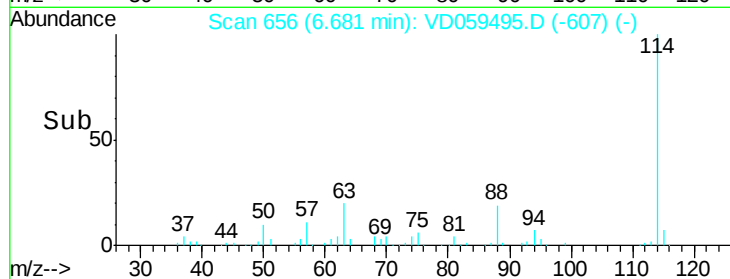
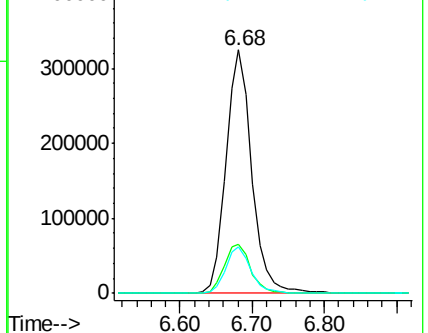
88 19.0 0.0 38.0



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: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD059495.D

Acq: 29 Jun 2018 16:49

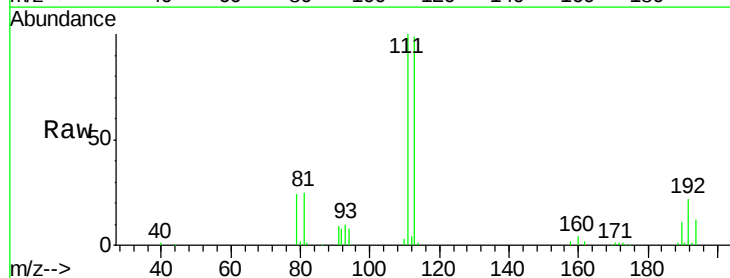
Tgt Ion:113 Resp: 374840

Ion Ratio Lower Upper

113 100

111 100.9 85.7 128.5

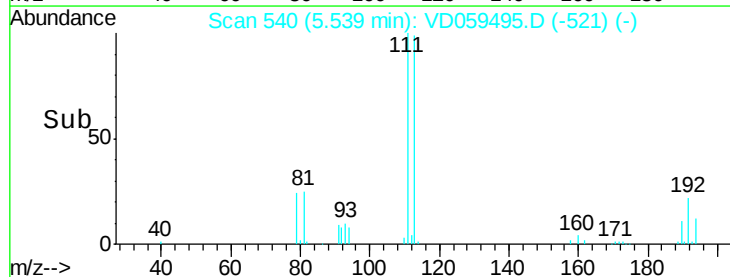
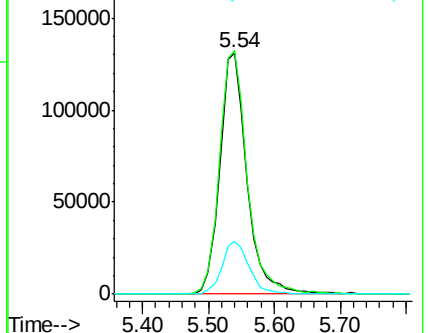
192 21.8 16.9 25.3

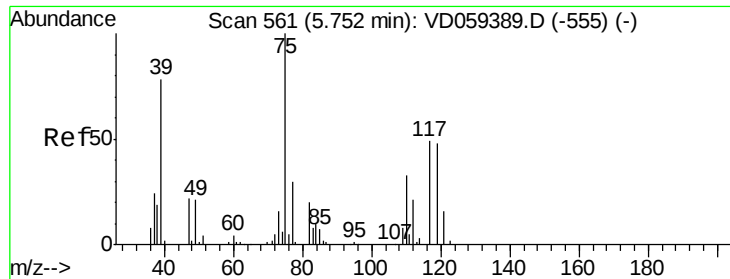


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.531 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD059495.D

Acq: 29 Jun 2018 16:49

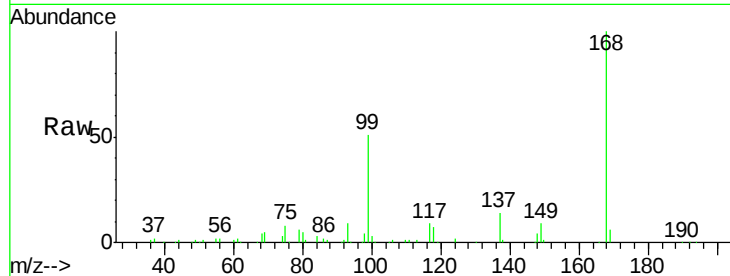
Tot Ion: 75 Resp: 47639

Ion Ratio Lower Upper

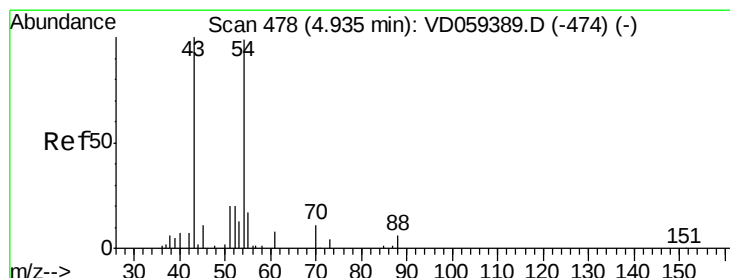
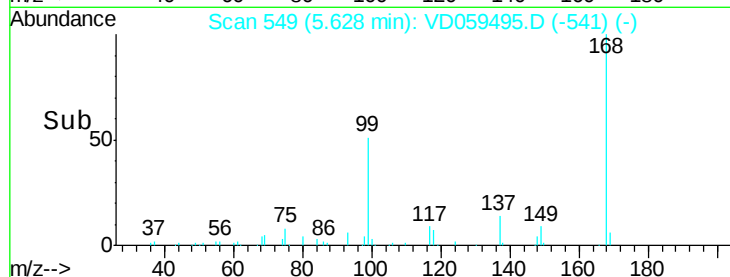
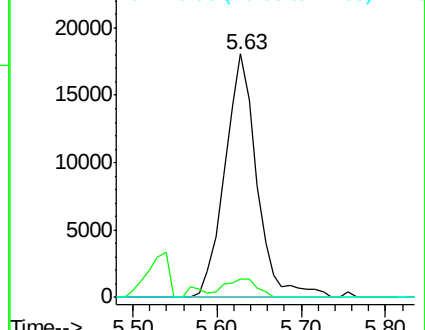
75 100

110 7.3 16.1 48.2#

77 0.0 23.4 35.2#



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



#37

Ethyl Acetate

Concen: 1.472 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.10 min

Lab File: VD059495.D

Acq: 29 Jun 2018 16:49

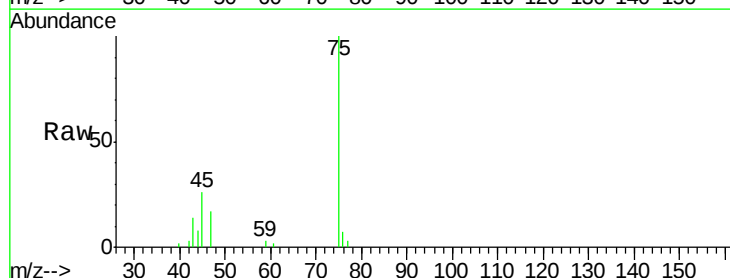
Tgt Ion: 43 Resp: 6539

Ion Ratio Lower Upper

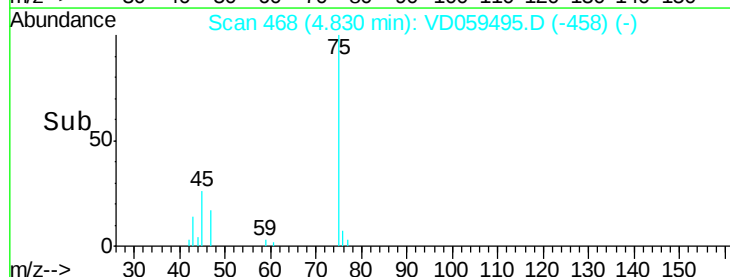
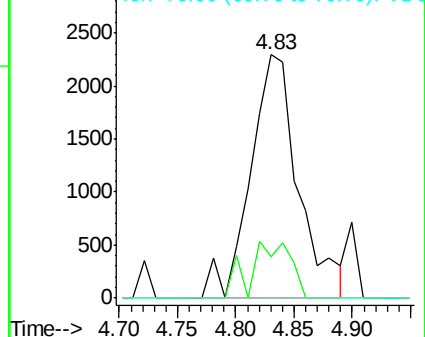
43 100

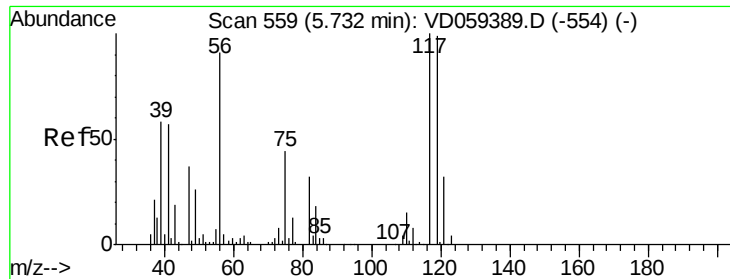
61 16.9 11.8 17.8

70 0.0 6.1 9.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.709 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.10 min

Lab File: VD059495.D

Acq: 29 Jun 2018 16:49

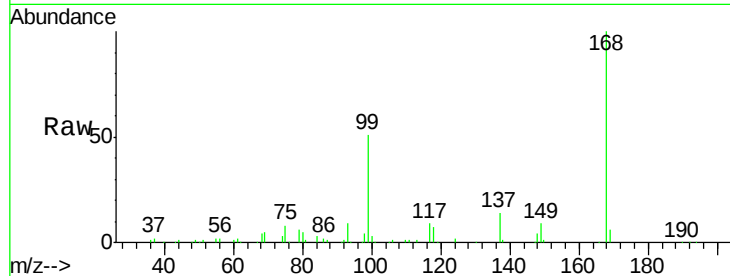
Tot Ion:117 Resp: 50458

Ion Ratio Lower Upper

117 100

119 4.7 76.6 115.0#

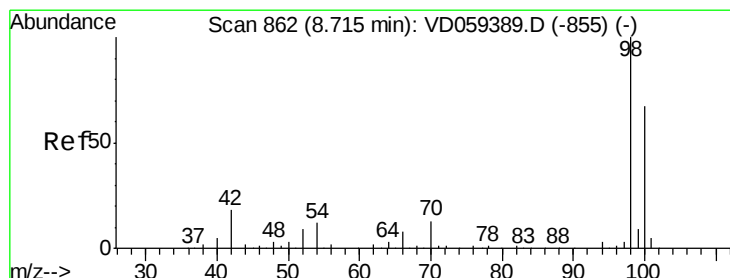
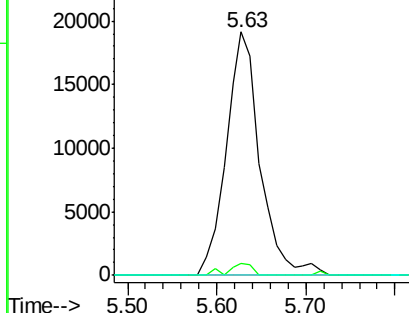
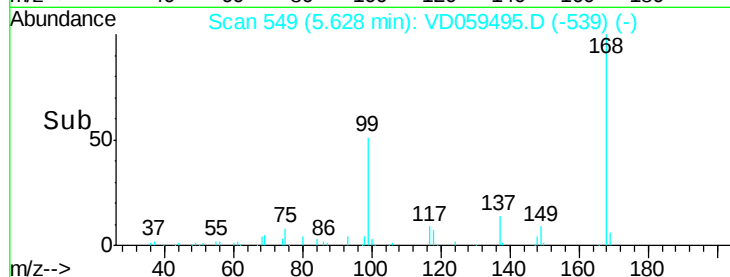
121 0.0 25.0 37.4#



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: 8.70 min Scan# 861

Delta R.T. -0.02 min

Lab File: VD059495.D

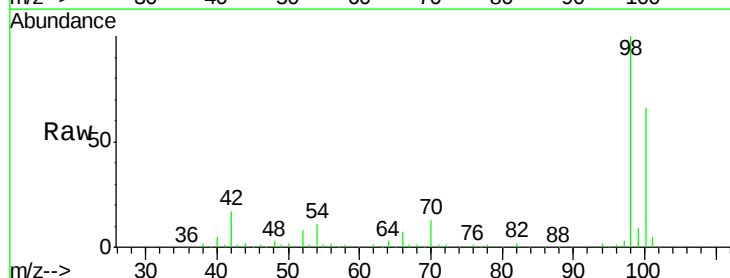
Acq: 29 Jun 2018 16:49

Tgt Ion: 98 Resp: 814449

Ion Ratio Lower Upper

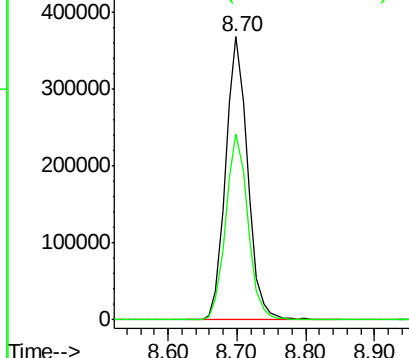
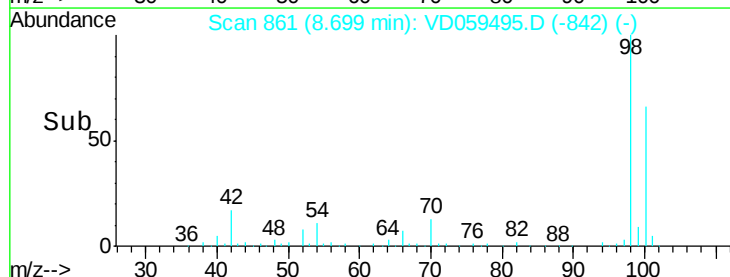
98 100

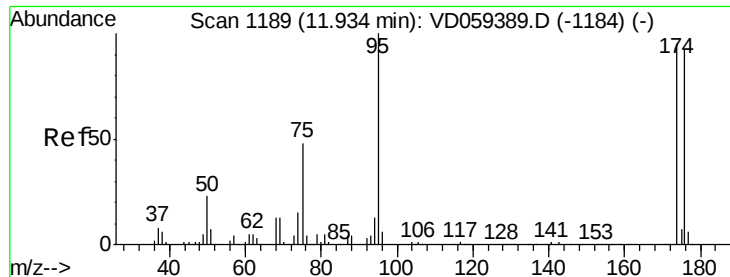
100 65.7 54.4 81.6



Abundance Ion 98.05 (97.75 to 98.75): V

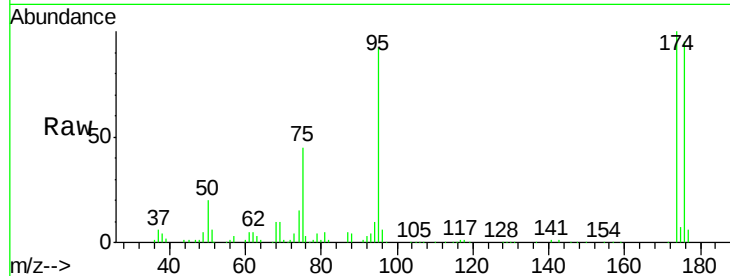
Ion 100.05 (99.75 to 100.75): V



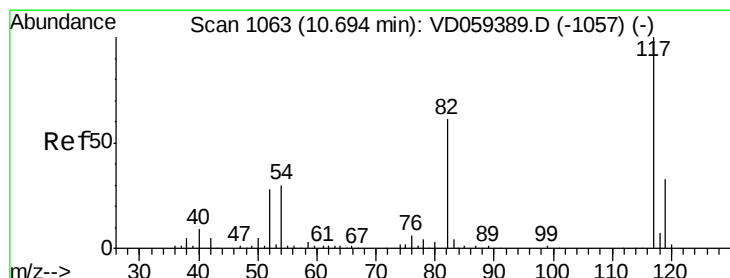
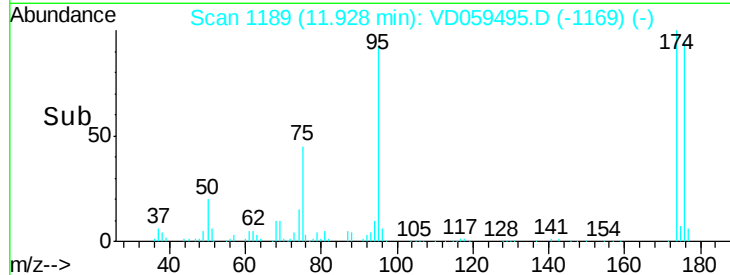
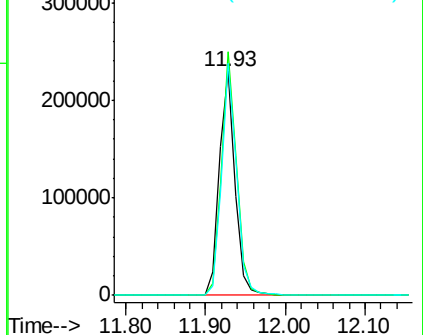


#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. -0.01 min
Lab File: VD059495.D
Acq: 29 Jun 2018 16:49

Tot Ion: 95 Resp: 320391
Ion Ratio Lower Upper
95 100
174 108.8 0.0 190.4
176 103.8 0.0 183.2

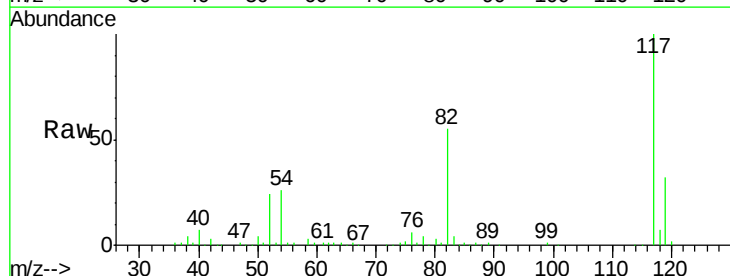


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

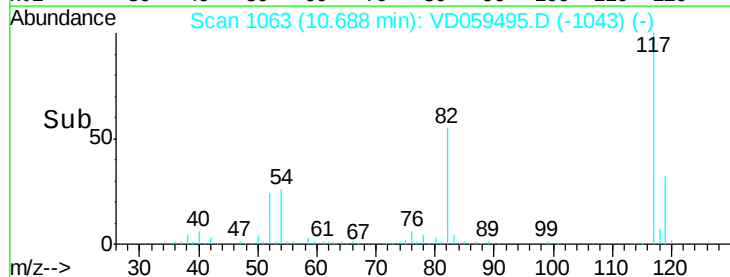
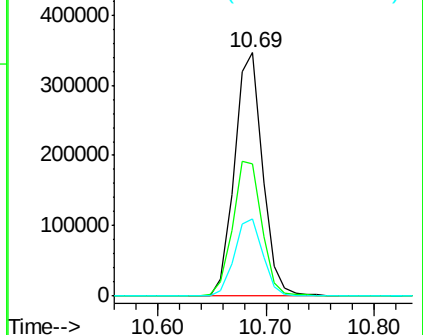


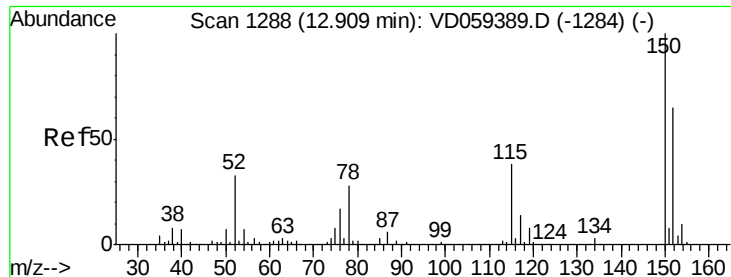
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. -0.01 min
Lab File: VD059495.D
Acq: 29 Jun 2018 16:49

Tgt Ion: 117 Resp: 624965
Ion Ratio Lower Upper
117 100
82 54.5 49.0 73.6
119 31.6 26.2 39.4



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

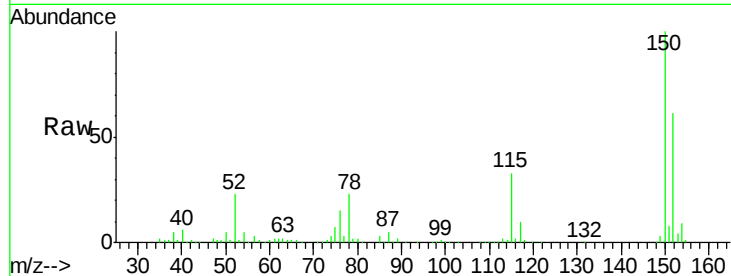




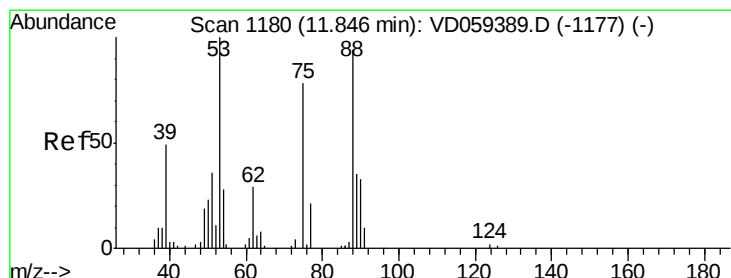
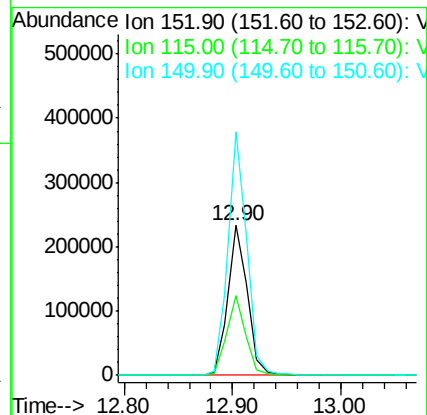
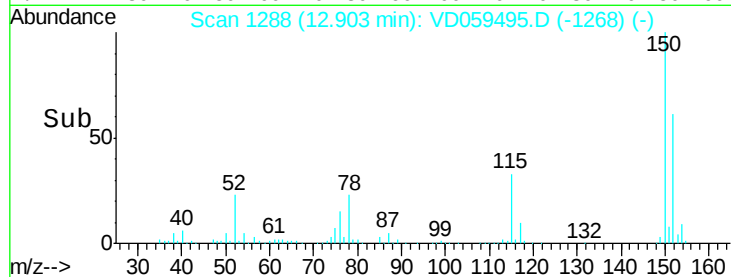
#72

1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.90 min Scan# 1288
 Delta R.T. -0.01 min
 Lab File: VD059495.D
 Acq: 29 Jun 2018 16:49

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.0	29.4	88.3
150	162.7	0.0	308.2



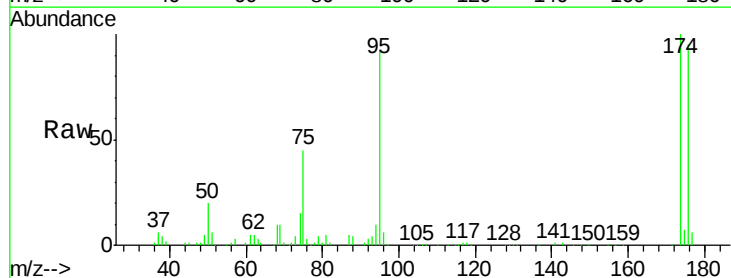
Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
 Concen: 171.690 ug/l
 RT: 11.93 min Scan# 1189
 Delta R.T. 0.08 min
 Lab File: VD059495.D
 Acq: 29 Jun 2018 16:49

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	102.6	154.0#
89	0.0	35.9	53.9#



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

