

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD110918\
 Data File : VD060318.D
 Acq On : 9 Nov 2018 18:02
 Operator : VA/AP
 Sample : J5876-01RE
 Misc : 4.95g/5ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 48382-47191-47202RE

Quant Time: Nov 12 01:36:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

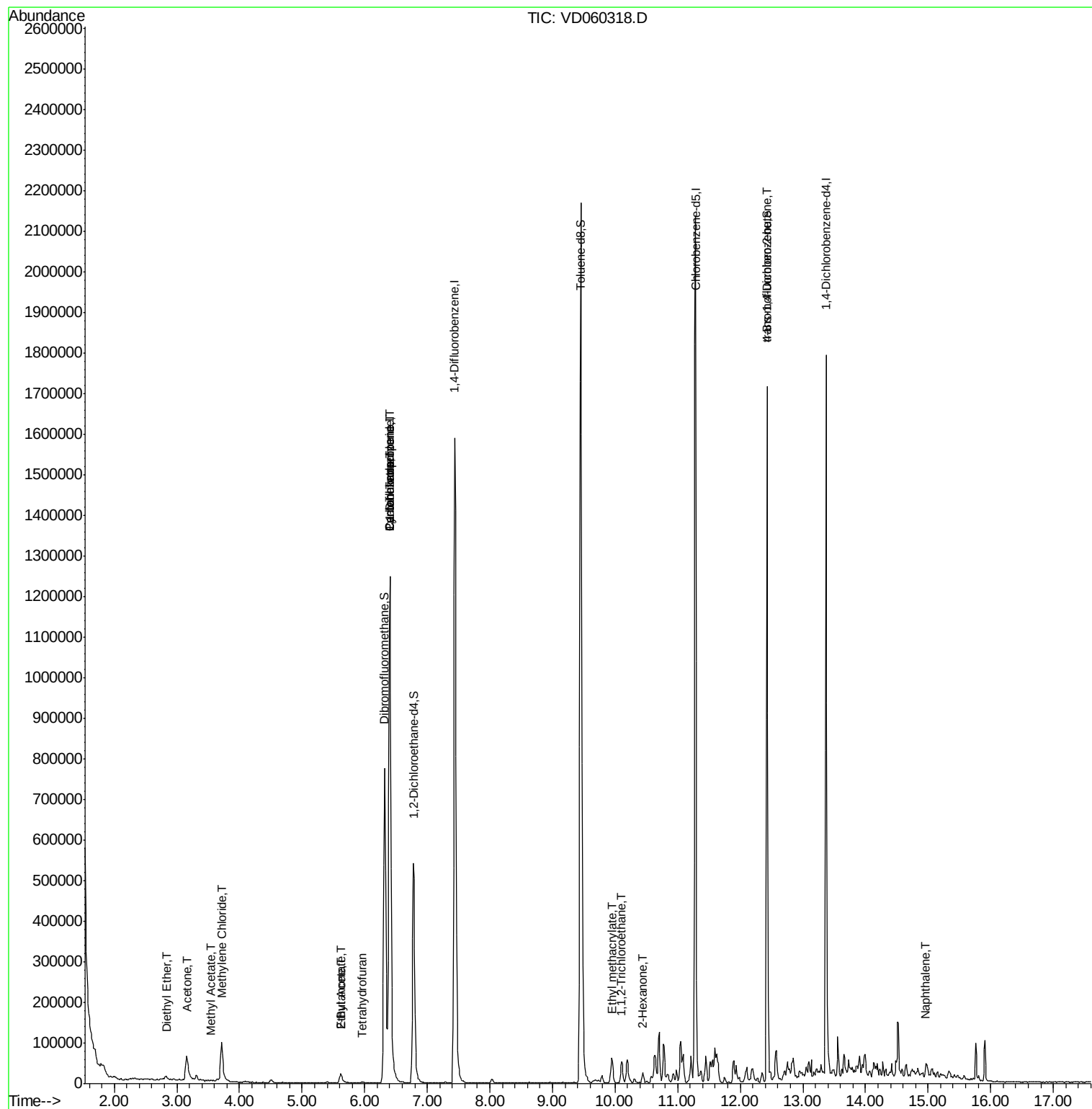
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1199355	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.44	114	1671796	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.29	117	1172358	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	391372	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.78	65	455954	53.09	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	106.18%	
35) Dibromofluoromethane	6.32	113	618762	49.64	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	99.28%	
50) Toluene-d8	9.46	98	1644537	45.07	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	90.14%	
62) 4-Bromofluorobenzene	12.43	95	454107	34.35	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	68.70%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.82	74	3573	1.804	ug/l	77
16) Acetone	3.16	43	136166	91.411	ug/l	100
18) Methyl Acetate	3.55	43	3950	1.244	ug/l #	63
20) Methylene Chloride	3.72	84	61066	4.621	ug/l	98
25) 2-Butanone	5.62	43	48870	15.784	ug/l	95
29) Tetrahydrofuran	5.95	42	2060	1.262	ug/l #	41
31) Cyclohexane	6.40	56	25534	1.245	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	86923	5.263	ug/l #	47
37) Ethyl Acetate	5.62	43	48869	6.430	ug/l #	69
38) Carbon Tetrachloride	6.40	117	94272	6.153	ug/l #	15
55) 1,1,2-Trichloroethane	10.10	97	23876	3.059	ug/l #	19
56) Ethyl methacrylate	9.95	69	8457	1.178	ug/l #	1
59) 2-Hexanone	10.44	43	15623	3.528	ug/l #	31
81) trans-1,4-Dichloro-2-buten	12.43	75	190378	142.832	ug/l #	15
89) n-Butylbenzene	13.65	91	4403	Below Cal		97
95) Naphthalene	14.97	128	20071	1.873	ug/l	100

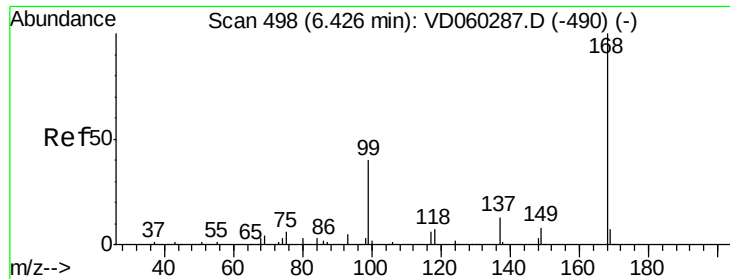
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

Instrument :

MSVOA_D

ClientSampleId :

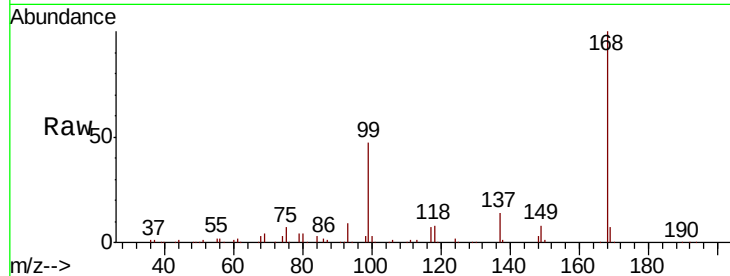
48382-47191-47202RE

Tgt Ion:168 Resp: 1199355

Ion Ratio Lower Upper

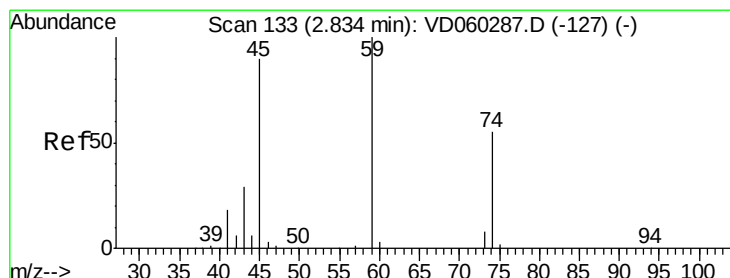
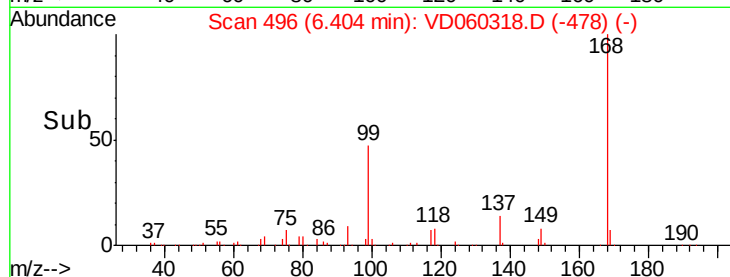
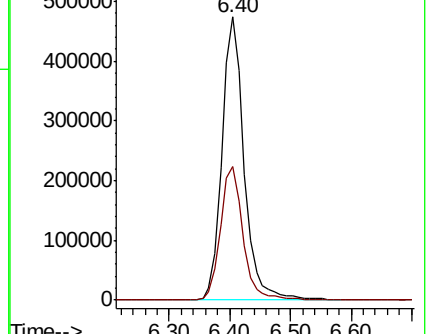
168 100

99 47.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.804 ug/l

RT: 2.82 min Scan# 132

Delta R.T. -0.01 min

Lab File: VD060318.D

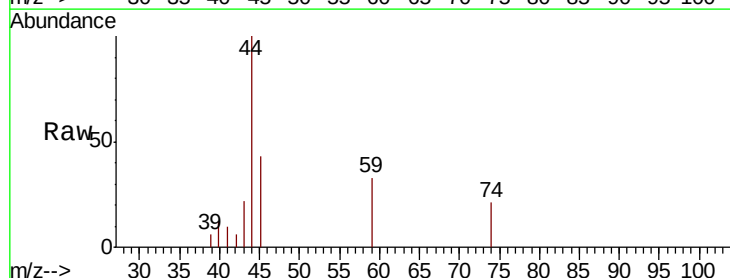
Acq: 9 Nov 2018 18:02

Tgt Ion: 74 Resp: 3573

Ion Ratio Lower Upper

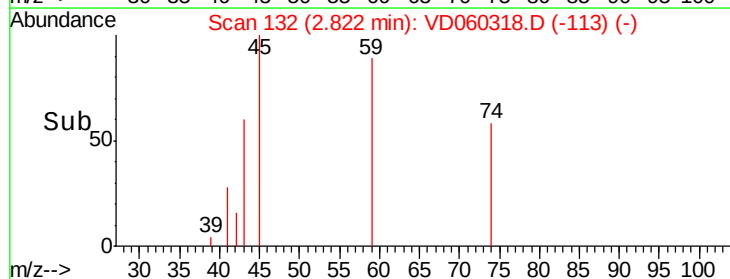
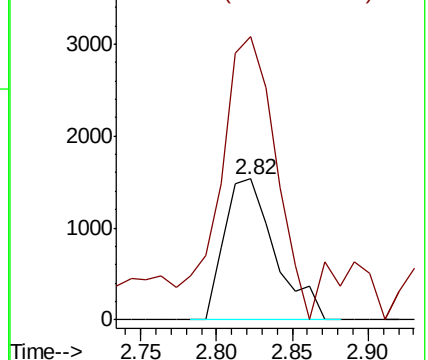
74 100

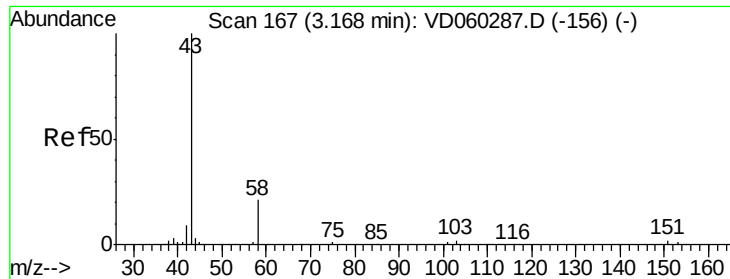
45 200.5 84.8 254.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 91.411 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.01 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

Instrument :

MSVOA_D

ClientSampleId :

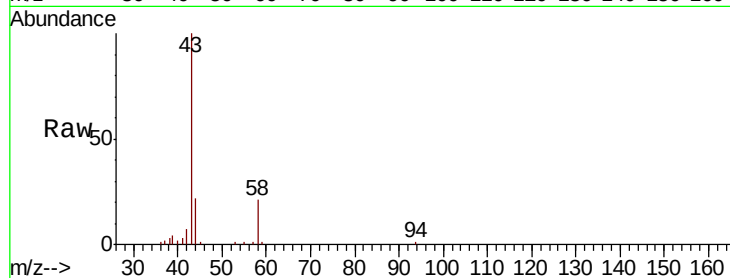
48382-47191-47202RE

Tgt Ion: 43 Resp: 136166

Ion Ratio Lower Upper

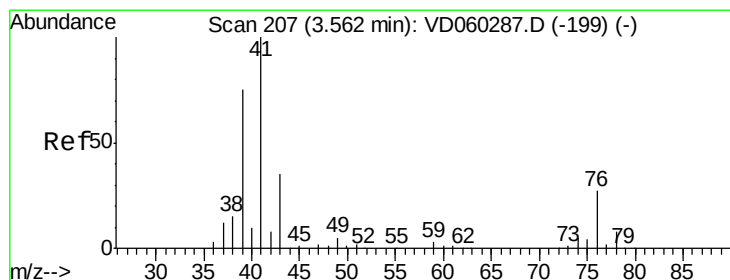
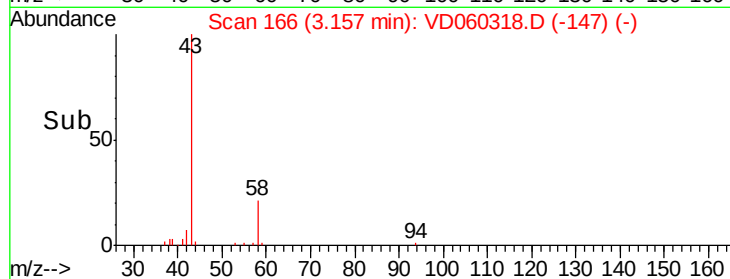
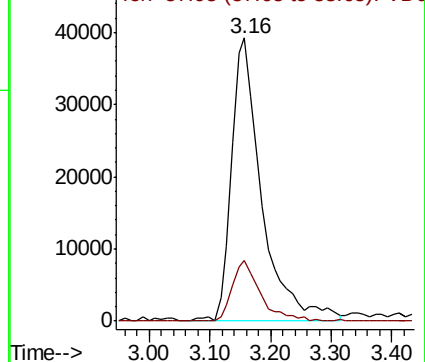
43 100

58 21.2 16.9 25.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.244 ug/l

RT: 3.55 min Scan# 206

Delta R.T. -0.01 min

Lab File: VD060318.D

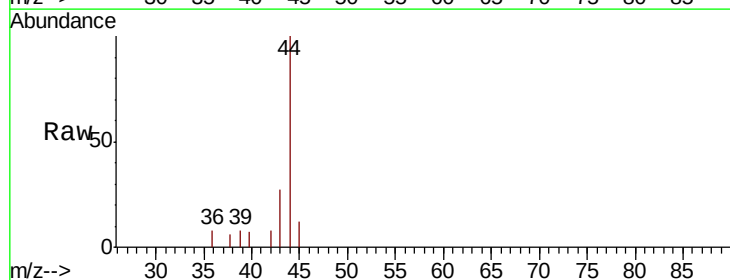
Acq: 9 Nov 2018 18:02

Tgt Ion: 43 Resp: 3950

Ion Ratio Lower Upper

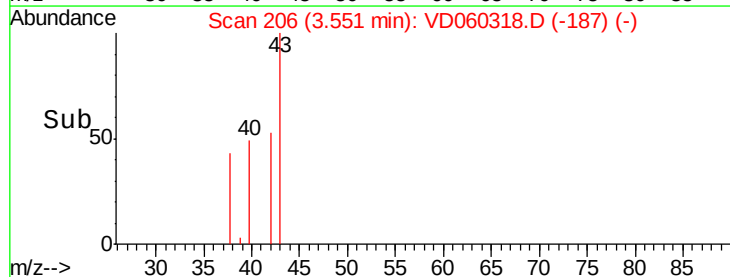
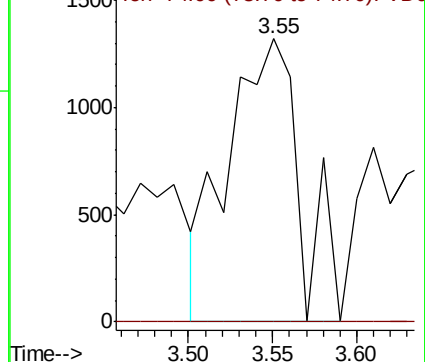
43 100

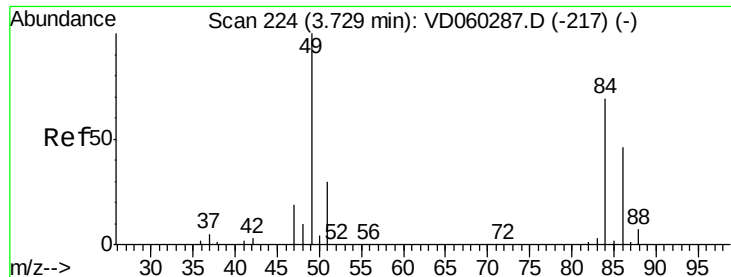
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

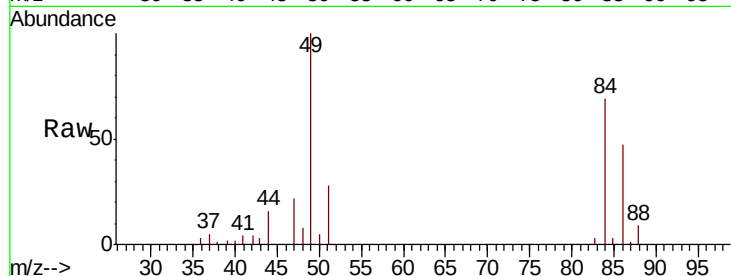




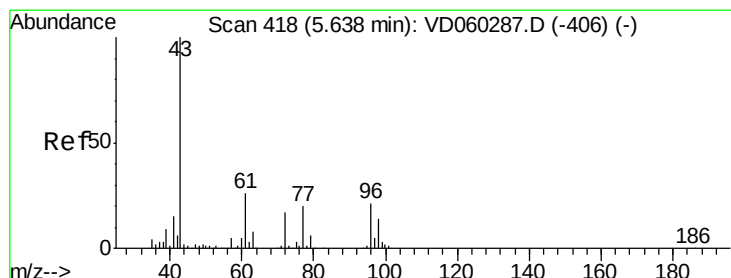
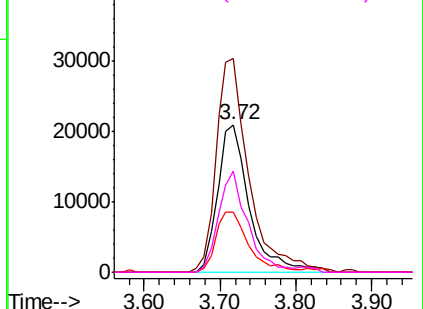
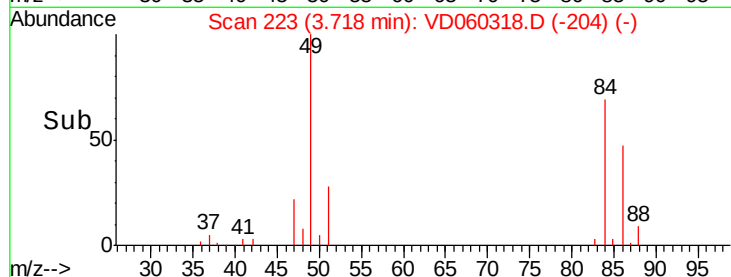
#20
Methylene Chloride
Concen: 4.621 ug/l
RT: 3.72 min Scan# 223
Delta R.T. -0.01 min
Lab File: VD060318.D
Acq: 9 Nov 2018 18:02

Instrument :
MSVOA_D
ClientSampleId :
48382-47191-47202RE

Tgt Ion:	84	Resp:	61066
Ion	Ratio	Lower	Upper
84	100		
49	145.1	115.6	173.4
51	40.6	35.6	53.4
86	68.9	52.3	78.5

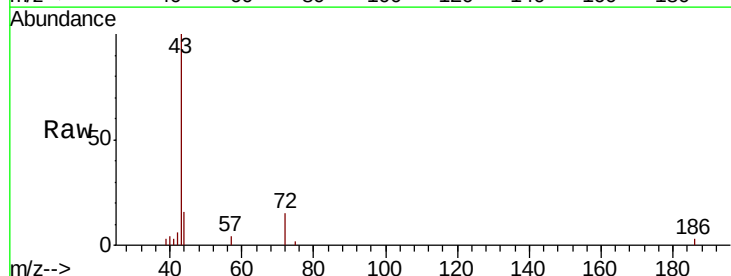


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

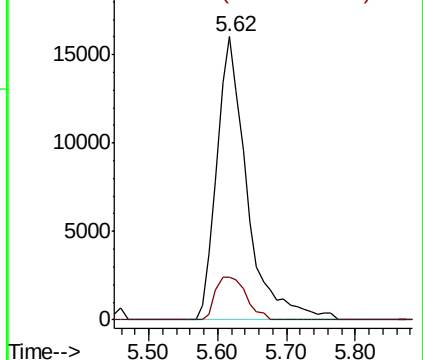
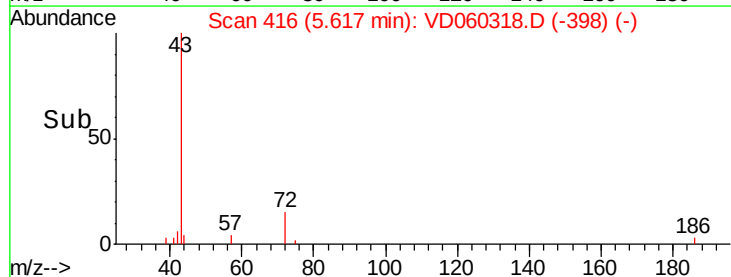


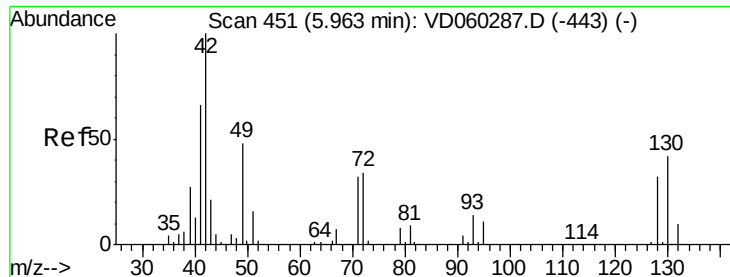
#25
2-Butanone
Concen: 15.784 ug/l
RT: 5.62 min Scan# 416
Delta R.T. -0.02 min
Lab File: VD060318.D
Acq: 9 Nov 2018 18:02

Tgt Ion:	43	Resp:	48870
Ion	Ratio	Lower	Upper
43	100		
72	14.9	13.8	20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 1.262 ug/l

RT: 5.95 min Scan# 450

Delta R.T. -0.01 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

Instrument :

MSVOA_D

ClientSampleId :

48382-47191-47202RE

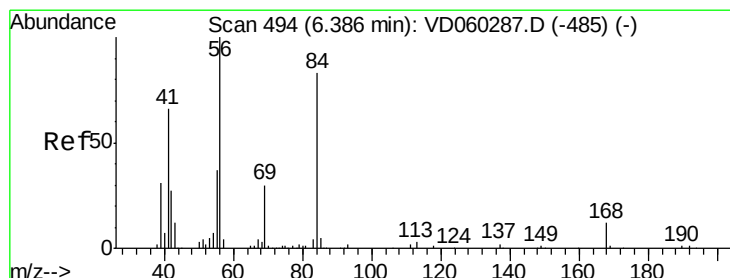
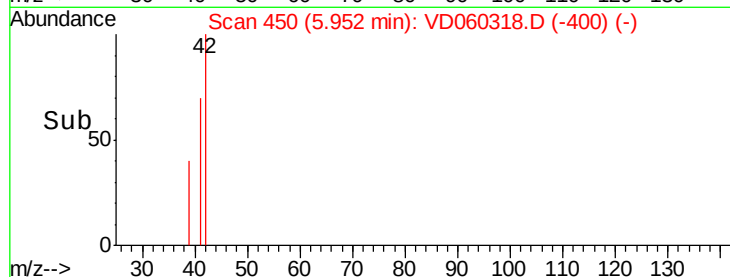
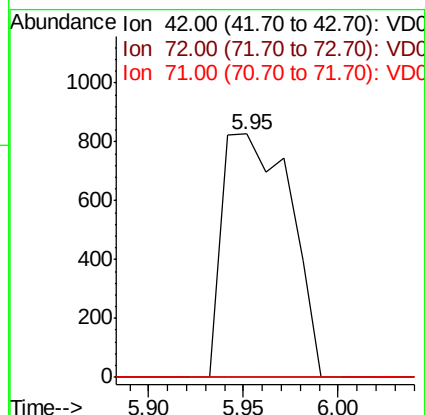
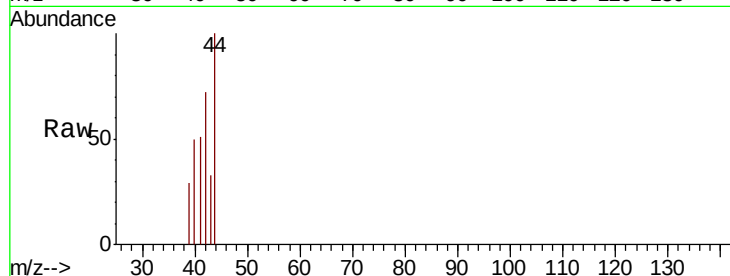
Tgt Ion: 42 Resp: 2060

Ion Ratio Lower Upper

42 100

72 0.0 27.6 41.4#

71 0.0 26.5 39.7#



#31

Cyclohexane

Concen: 1.245 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

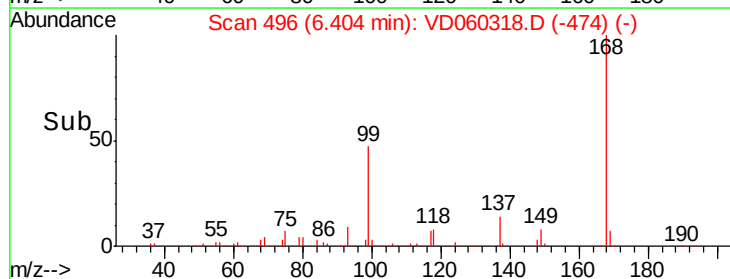
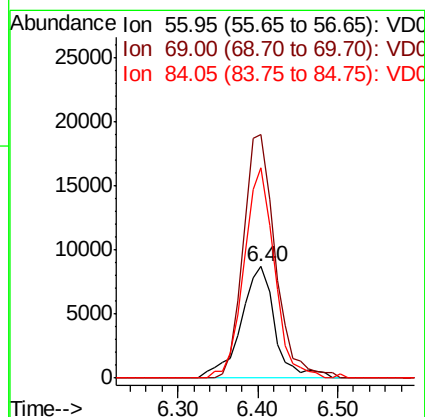
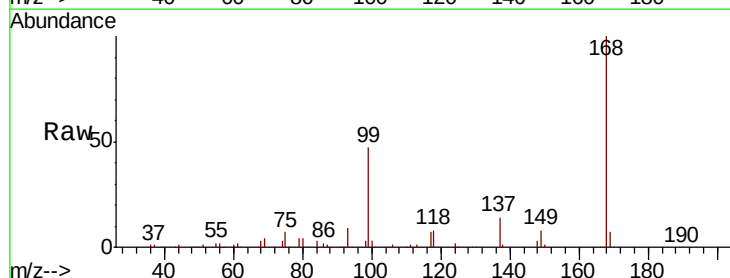
Tgt Ion: 56 Resp: 25534

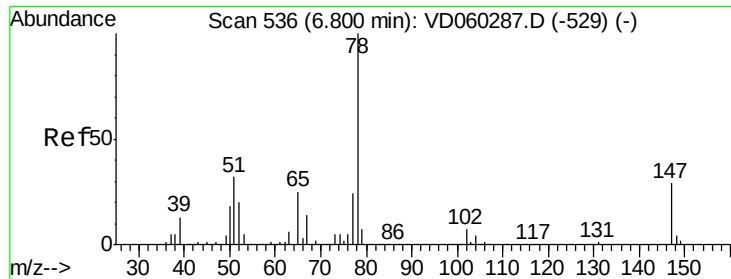
Ion Ratio Lower Upper

56 100

69 218.0 22.2 33.2#

84 188.7 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.78 min Scan# 534

Delta R.T. -0.02 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

Instrument :

MSVOA_D

ClientSampleId :

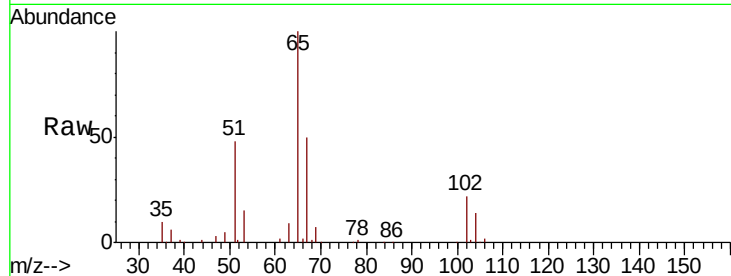
48382-47191-47202RE

Tgt Ion: 65 Resp: 455954

Ion Ratio Lower Upper

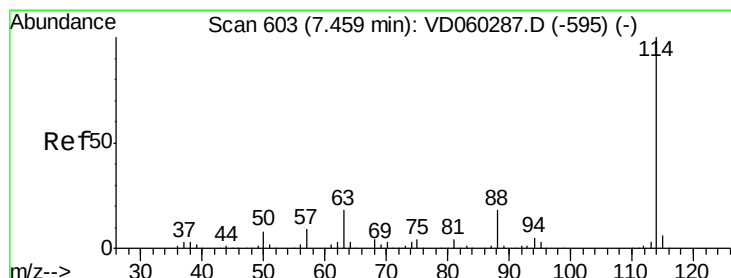
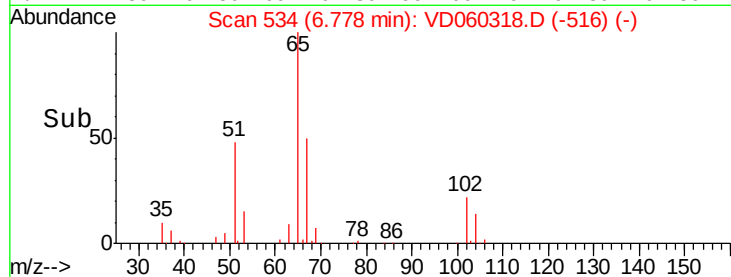
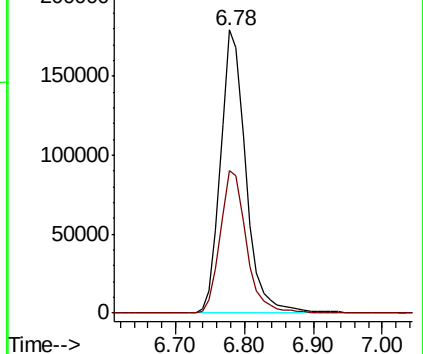
65 100

67 50.2 0.0 109.8



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: 7.44 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

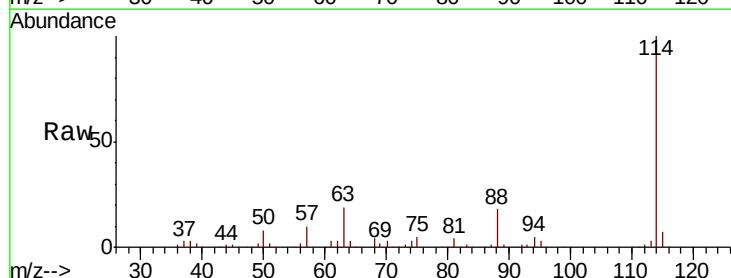
Tgt Ion: 114 Resp: 1671796

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.0

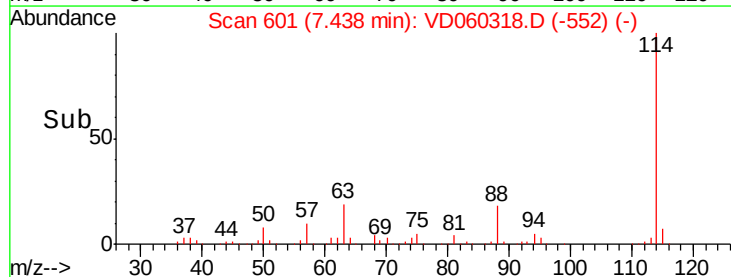
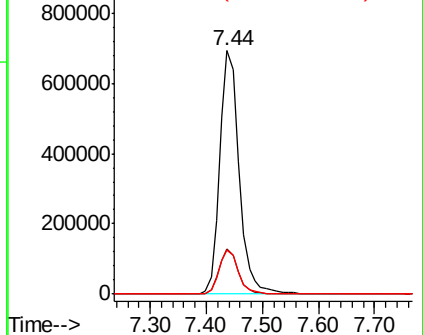
88 18.3 0.0 35.4

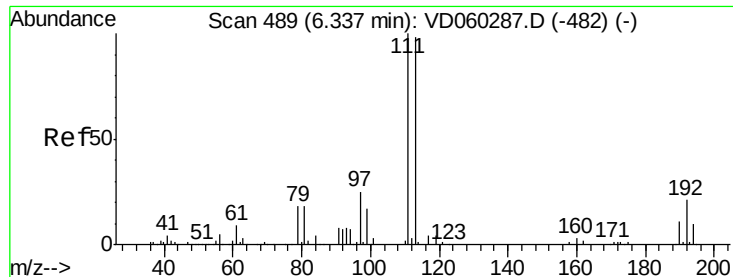


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

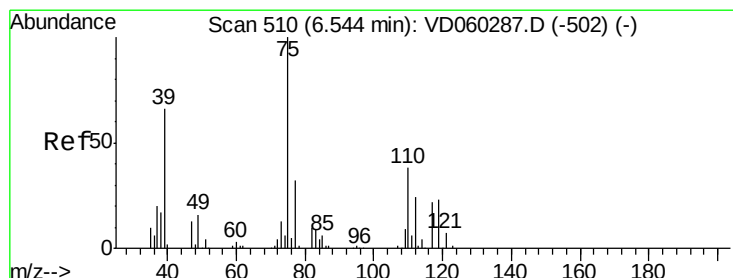
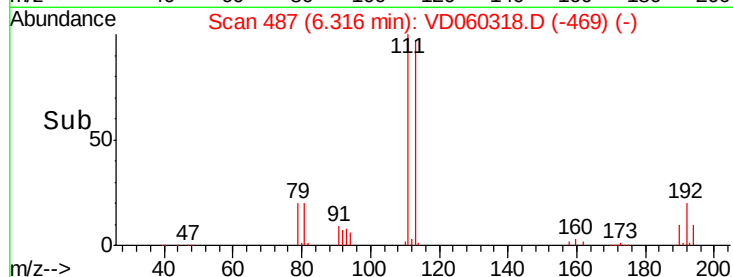
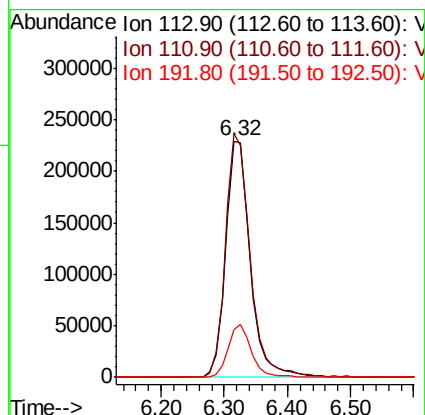
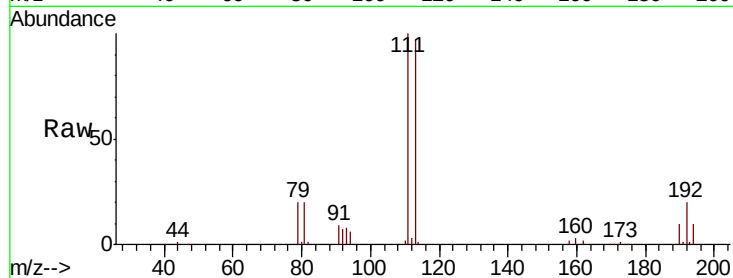




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.32 min Scan# 487
 Delta R.T. -0.02 min
 Lab File: VD060318.D
 Acq: 9 Nov 2018 18:02

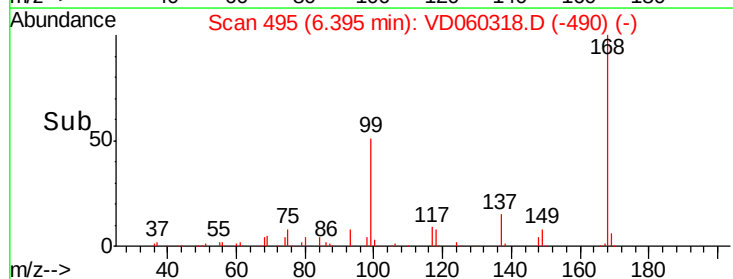
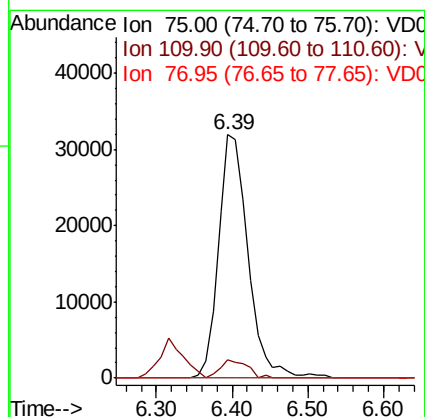
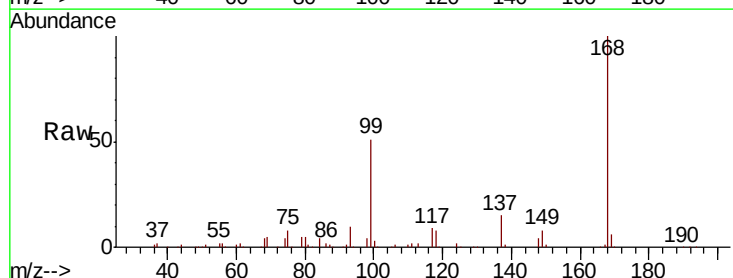
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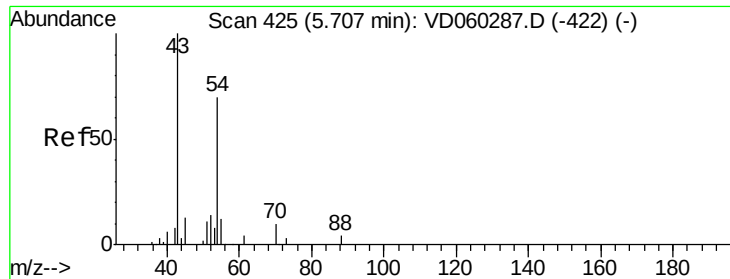
Tgt Ion: 113 Resp: 618762
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.6 122.4
 192 20.4 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 5.263 ug/l
 RT: 6.39 min Scan# 495
 Delta R.T. -0.15 min
 Lab File: VD060318.D
 Acq: 9 Nov 2018 18:02

Tgt Ion: 75 Resp: 86923
 Ion Ratio Lower Upper
 75 100
 110 7.7 18.0 54.0#
 77 0.0 25.6 38.4#

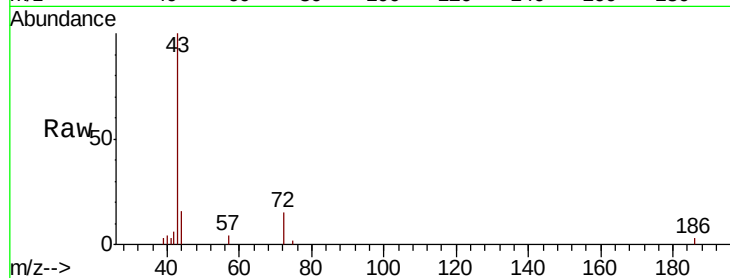




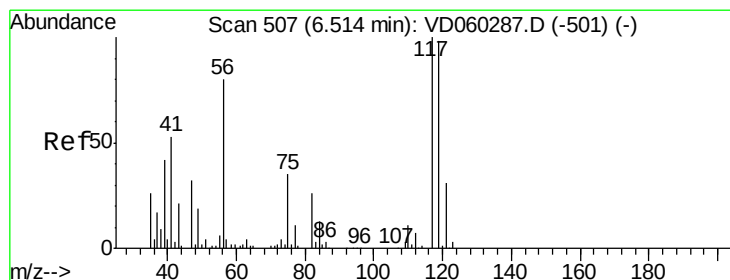
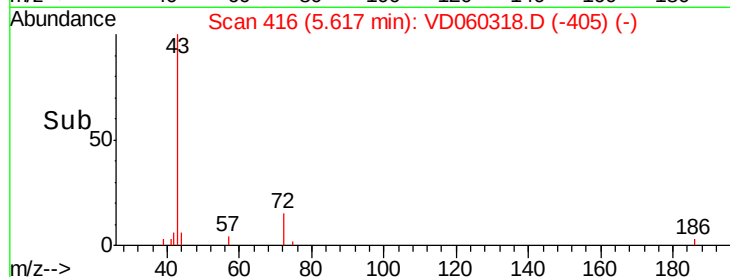
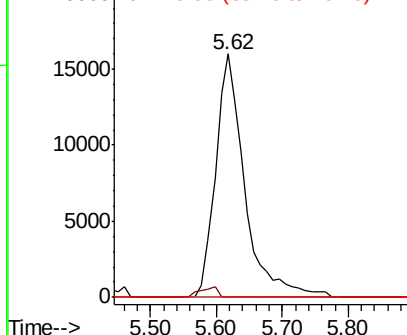
#37
Ethyl Acetate
 Concen: 6.430 ug/l
 RT: 5.62 min Scan# 416
 Delta R.T. -0.09 min
 Lab File: VD060318.D
 Acq: 9 Nov 2018 18:02

Instrument :
 MSVOA_D
 ClientSampleId :
 48382-47191-47202RE

Tgt Ion: 43 Resp: 48869
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.8 17.6#
 70 0.0 6.2 9.4#

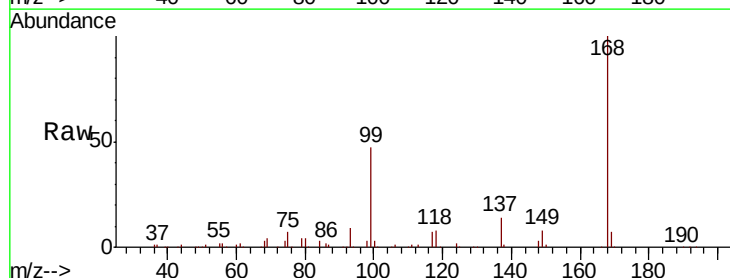


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 70.00 (69.70 to 70.70): VDC

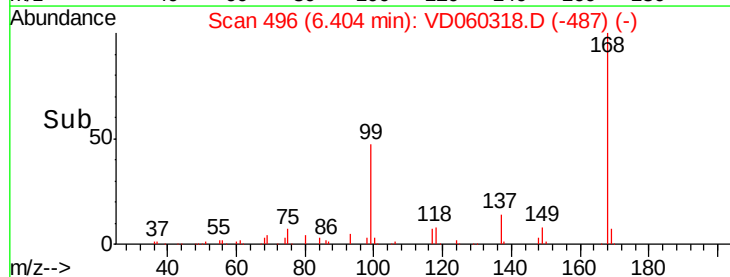
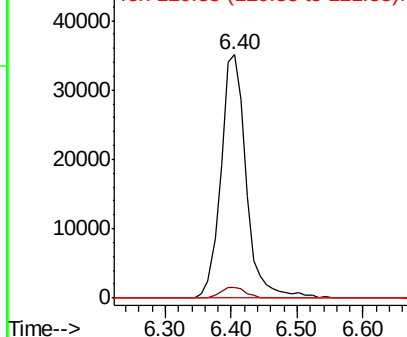


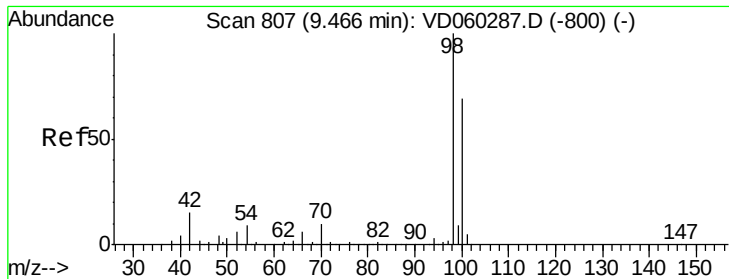
#38
Carbon Tetrachloride
 Concen: 6.153 ug/l
 RT: 6.40 min Scan# 496
 Delta R.T. -0.11 min
 Lab File: VD060318.D
 Acq: 9 Nov 2018 18:02

Tgt Ion: 117 Resp: 94272
 Ion Ratio Lower Upper
 117 100
 119 4.2 76.6 115.0#
 121 0.0 24.3 36.5#



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

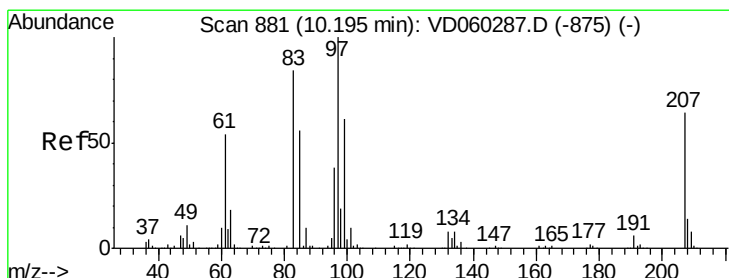
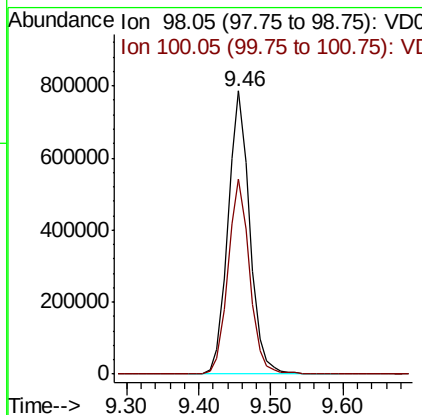
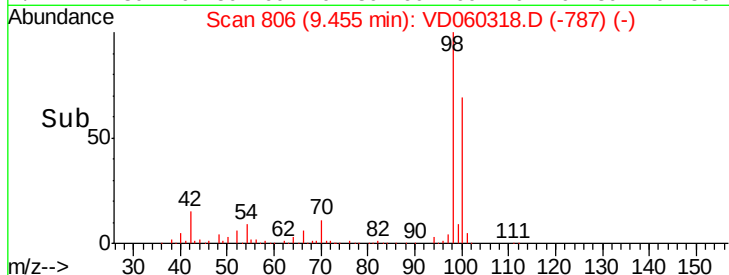
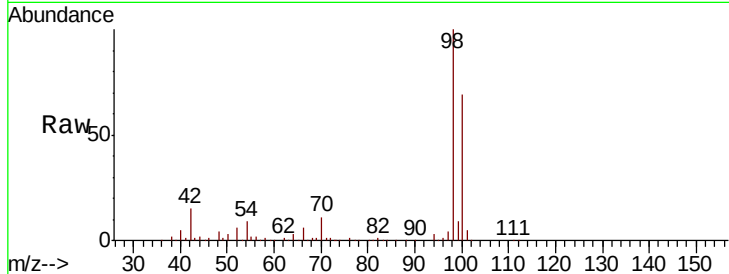




#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060318.D
Acq: 9 Nov 2018 18:02

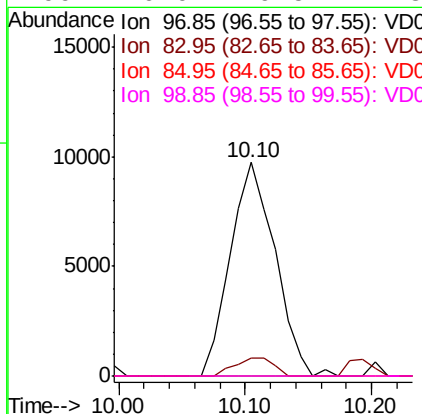
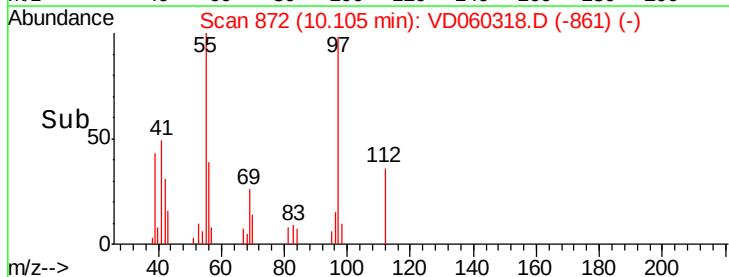
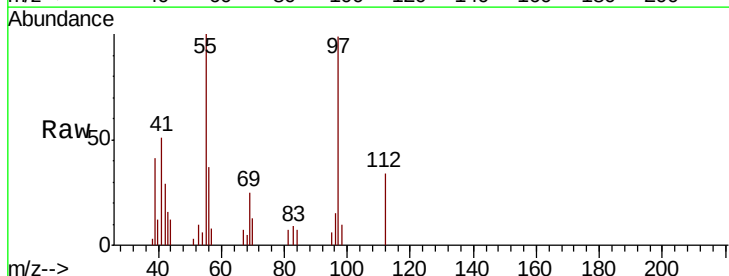
Instrument :
MSVOA_D
ClientSampleId :
48382-47191-47202RE

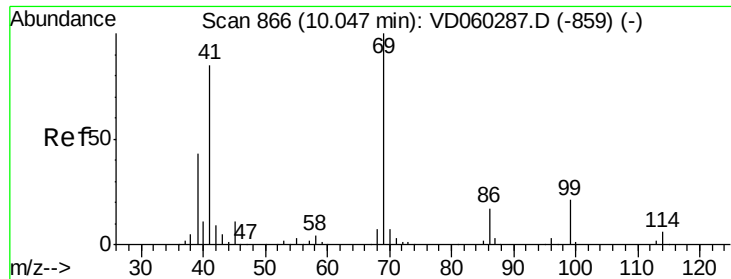
Tgt Ion: 98 Resp: 1644537
Ion Ratio Lower Upper
98 100
100 69.0 55.2 82.8



#55
1,1,2-Trichloroethane
Concen: 3.059 ug/l
RT: 10.10 min Scan# 872
Delta R.T. -0.09 min
Lab File: VD060318.D
Acq: 9 Nov 2018 18:02

Tgt Ion: 97 Resp: 23876
Ion Ratio Lower Upper
97 100
83 8.6 68.4 102.6#
85 0.0 46.8 70.2#
99 0.0 49.5 74.3#





#56

Ethyl methacrylate

Concen: 1.178 ug/l

RT: 9.95 min Scan# 856

Delta R.T. -0.10 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

Instrument :

MSVOA_D

ClientSampleId :

48382-47191-47202RE

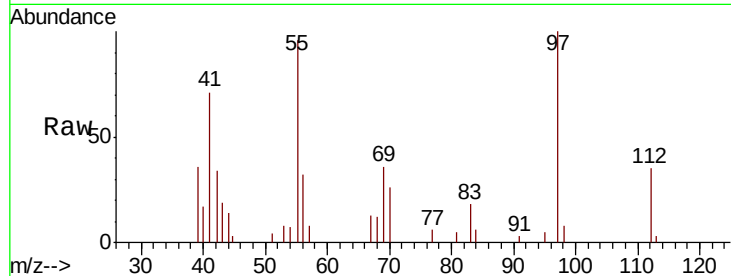
Tgt Ion: 69 Resp: 8457

Ion Ratio Lower Upper

69 100

41 197.9 69.0 103.4#

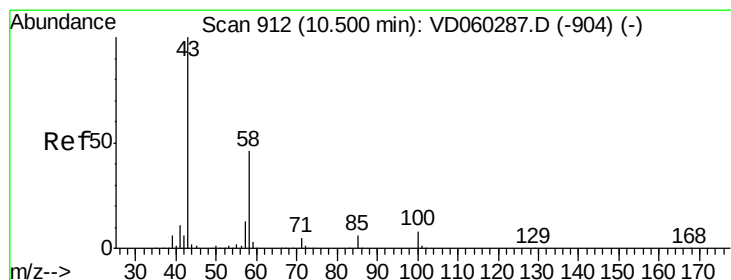
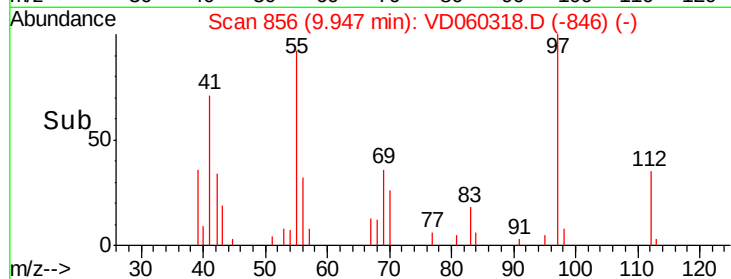
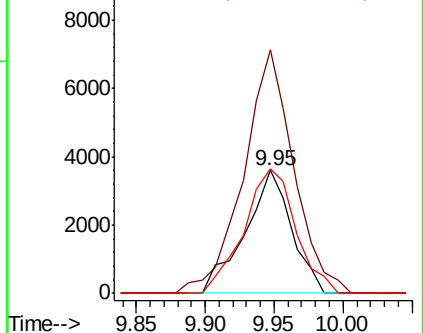
39 101.4 36.6 54.8#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC



#59

2-Hexanone

Concen: 3.528 ug/l

RT: 10.44 min Scan# 906

Delta R.T. -0.06 min

Lab File: VD060318.D

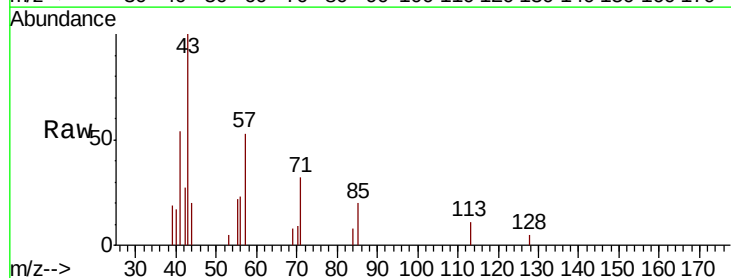
Acq: 9 Nov 2018 18:02

Tgt Ion: 43 Resp: 15623

Ion Ratio Lower Upper

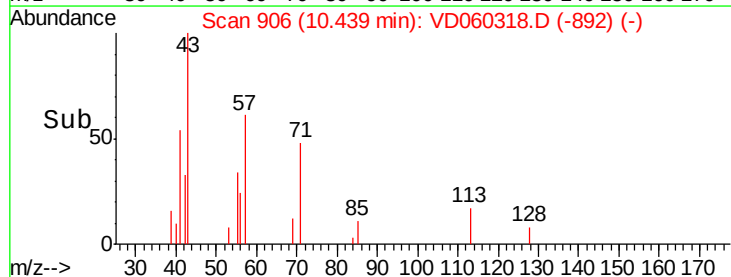
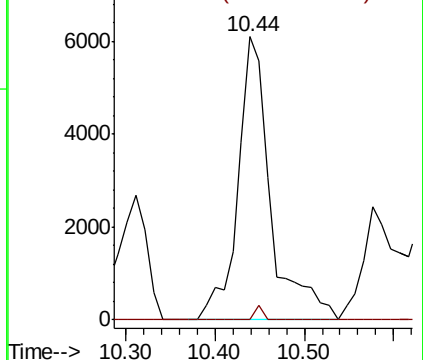
43 100

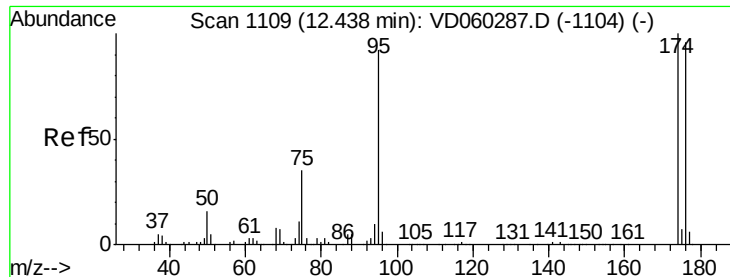
58 0.0 22.9 68.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

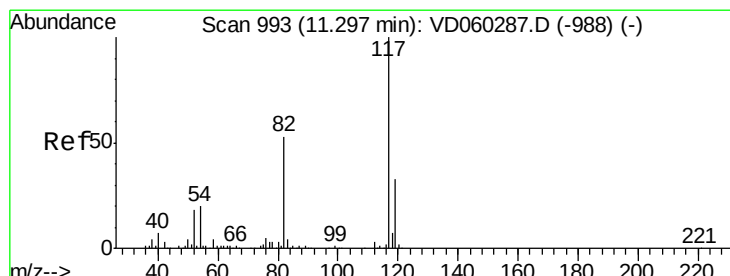
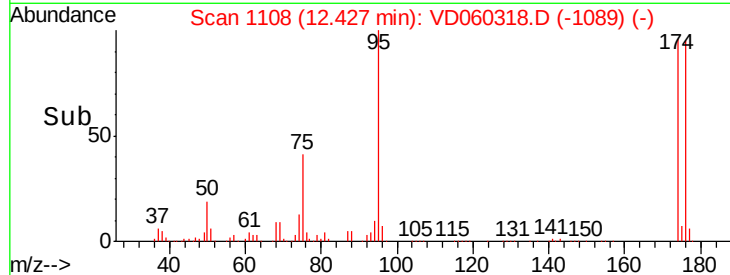
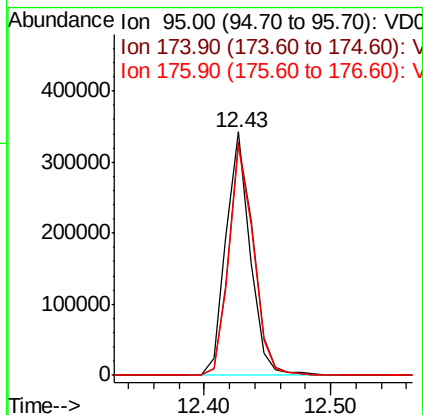
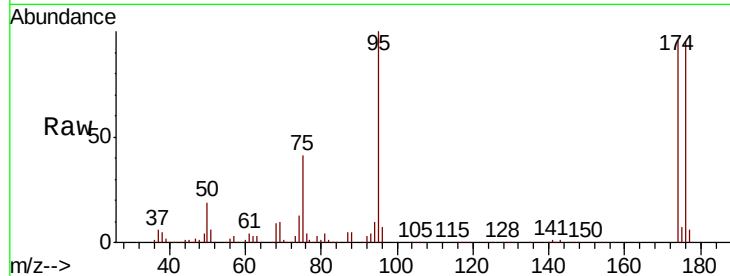




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.43 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VD060318.D
Acq: 9 Nov 2018 18:02

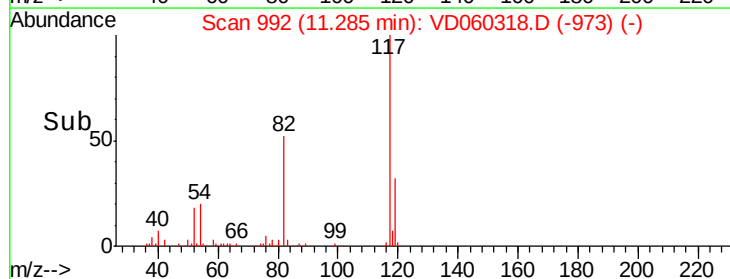
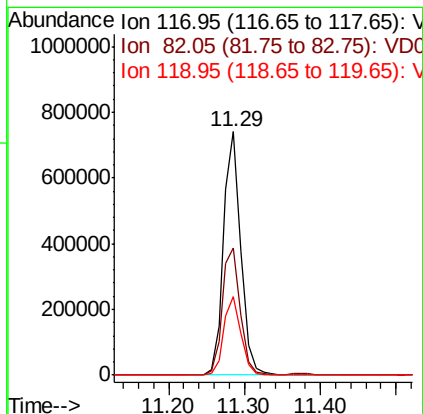
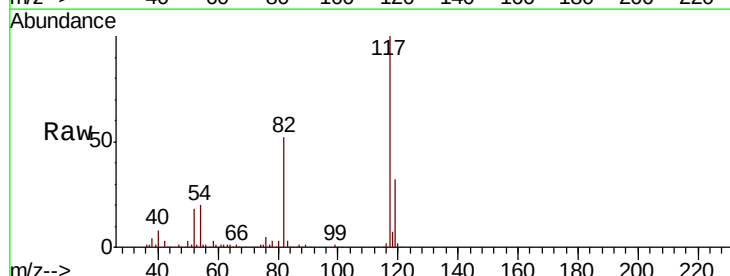
Instrument :
MSVOA_D
ClientSampleId :
48382-47191-47202RE

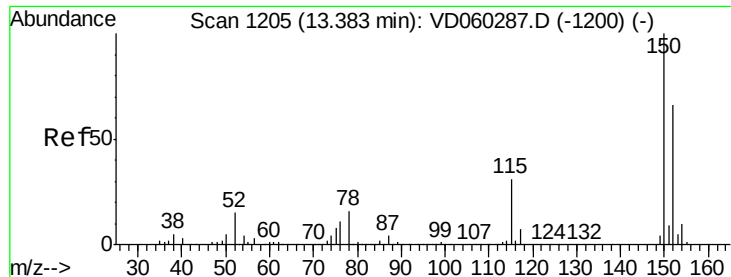
Tgt Ion: 95 Resp: 454107
Ion Ratio Lower Upper
95 100
174 96.0 0.0 160.8
176 94.5 0.0 154.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 992
Delta R.T. -0.01 min
Lab File: VD060318.D
Acq: 9 Nov 2018 18:02

Tgt Ion: 117 Resp: 1172358
Ion Ratio Lower Upper
117 100
82 52.4 43.7 65.5
119 32.4 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

Instrument :

MSVOA_D

ClientSampleId :

48382-47191-47202RE

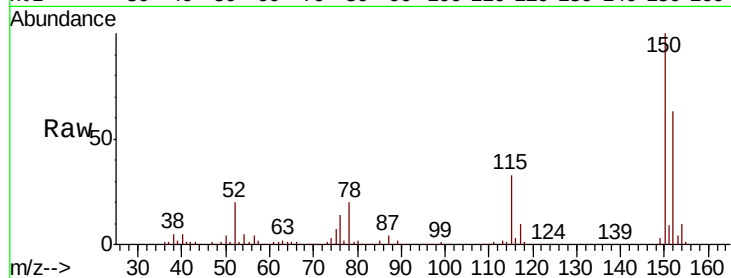
Tgt Ion:152 Resp: 391372

Ion Ratio Lower Upper

152 100

115 52.0 24.1 72.3

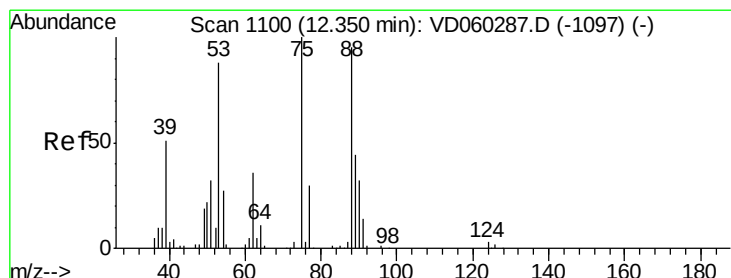
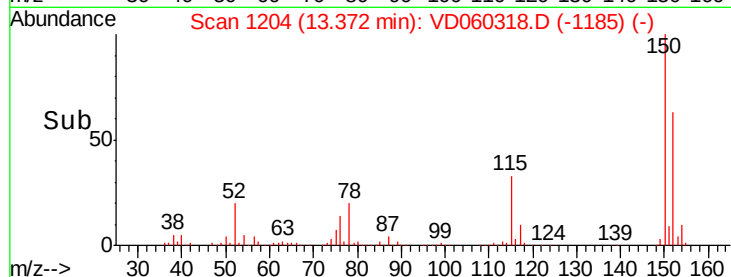
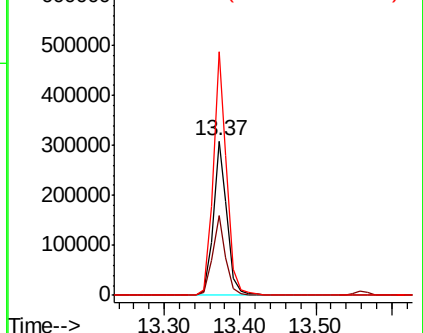
150 158.1 0.0 310.6



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: 142.832 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060318.D

Acq: 9 Nov 2018 18:02

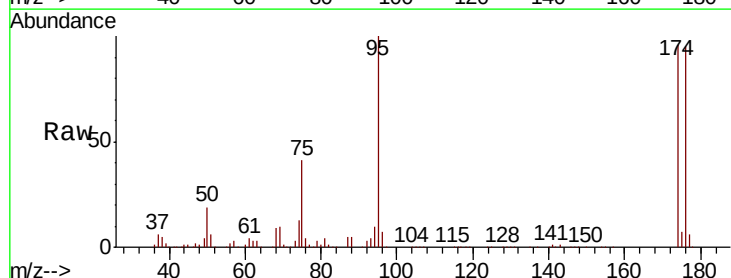
Tgt Ion: 75 Resp: 190378

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

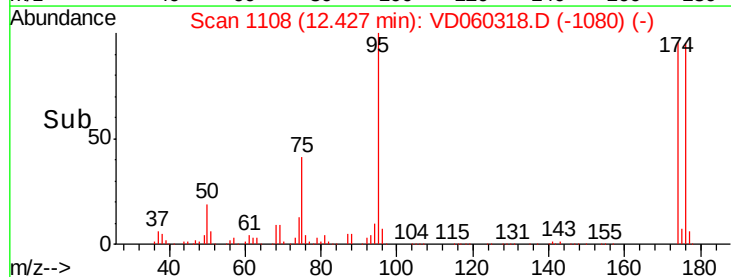
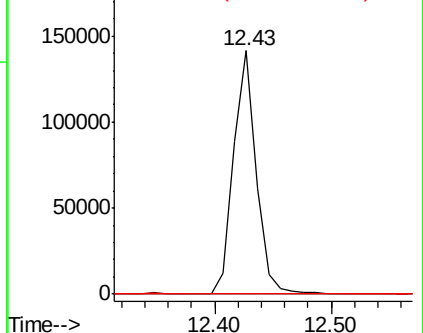
89 0.0 34.1 51.1#

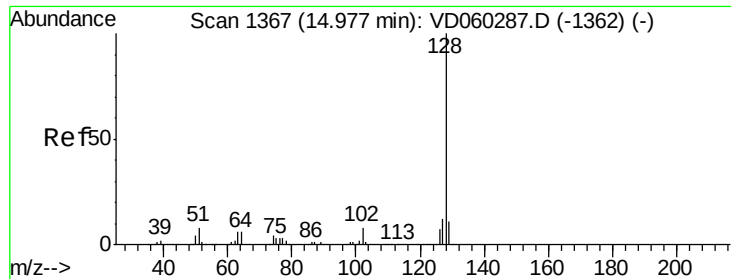


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

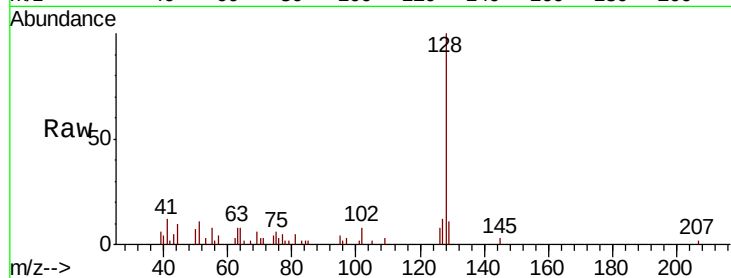




#95
Naphthalene
Concen: 1.873 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060318.D
Acq: 9 Nov 2018 18:02

Instrument :
MSVOA_D
ClientSampleId :
48382-47191-47202RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.6	14.4
129	10.7	8.6	12.8



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

