

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092118\
 Data File : VD060070.D
 Acq On : 21 Sep 2018 14:39
 Operator : VA/AP
 Sample : J5017-04RE
 Misc : 5.04g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058RE

Quant Time: Sep 22 00:49:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	403704	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.44	114	649125	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.28	117	541114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	238698	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	214340	68.08	ug/l	0.02
Spiked Amount			Recovery	=	136.16%	
35) Dibromofluoromethane	6.32	113	228308	45.02	ug/l	0.02
Spiked Amount			Recovery	=	90.04%	
50) Toluene-d8	9.44	98	508661	36.19	ug/l	0.00
Spiked Amount			Recovery	=	72.38%	
62) 4-Bromofluorobenzene	12.42	95	205633	38.30	ug/l	0.00
Spiked Amount			Recovery	=	76.60%	

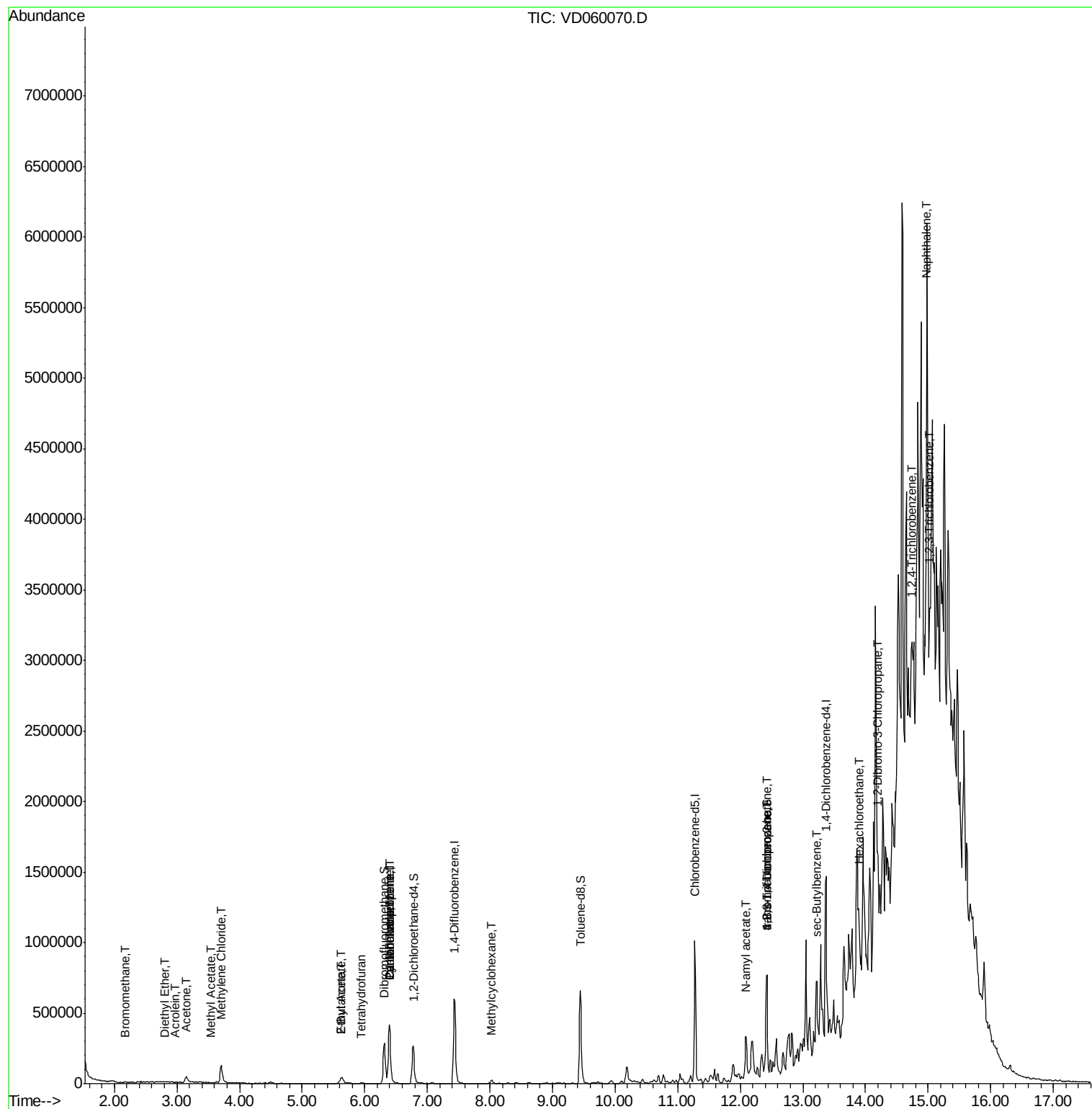
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	637	1.778	ug/l #	1
8) Diethyl Ether	2.81	74	1046	1.477	ug/l	89
13) Acrolein	2.97	56	219	1.392	ug/l #	23
16) Acetone	3.15	43	90462	148.829	ug/l	97
18) Methyl Acetate	3.55	43	2259	1.827	ug/l #	64
20) Methylene Chloride	3.71	84	77053	12.395	ug/l	96
25) 2-Butanone	5.61	43	42883	26.145	ug/l	98
29) Tetrahydrofuran	5.95	42	2487	2.827	ug/l #	41
31) Cyclohexane	6.39	56	8561	1.224	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	29749	4.614	ug/l #	47
37) Ethyl Acetate	5.61	43	42883	9.671	ug/l #	76
38) Carbon Tetrachloride	6.39	117	31061	5.160	ug/l #	14
39) Methylcyclohexane	8.03	83	10643	1.459	ug/l	95
51) 4-Methyl-2-Pentanone	9.33	43	2507	Below Cal	#	42
59) 2-Hexanone	10.44	43	19874	Below Cal	#	30
74) N-amyl acetate	12.08	43	65333	10.536	ug/l #	62
76) 1,2,3-Trichloropropane	12.42	75	72074	19.770	ug/l #	48
81) trans-1,4-Dichloro-2-buten	12.42	75	81545	74.100	ug/l #	20
85) sec-Butylbenzene	13.21	105	29532	1.790	ug/l	86
90) Hexachloroethane	13.90	117	10371	3.137	ug/l #	7
91) 1,2-Dichlorobenzene	13.66	146	972	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.19	75	3096	5.718	ug/l #	38
93) 1,2,4-Trichlorobenzene	14.75	180	15892	2.844	ug/l #	1
95) Naphthalene	14.97	128	31343	3.632	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.02	180	19147	3.888	ug/l	68

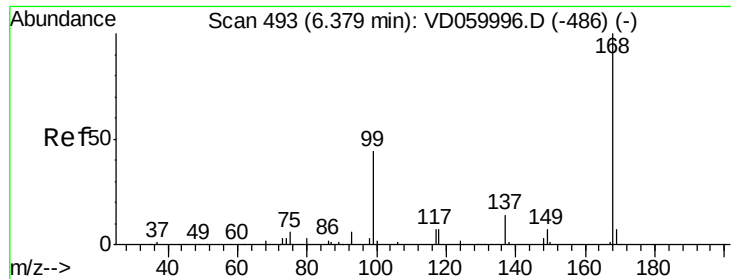
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.02 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

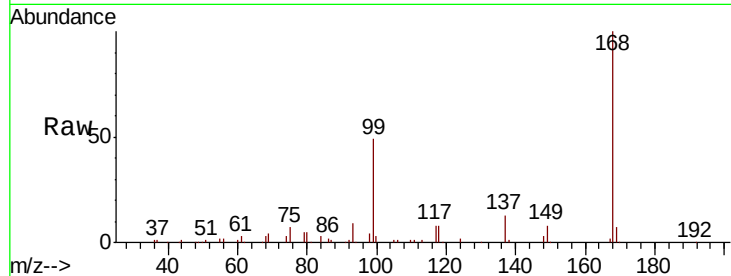
RA-091918-S-SW-058RE

Tot Ion:168 Resp: 403704

Ion Ratio Lower Upper

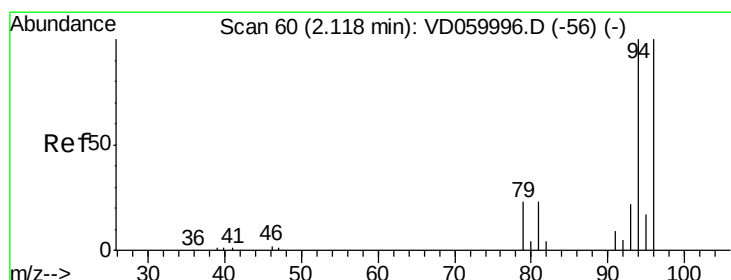
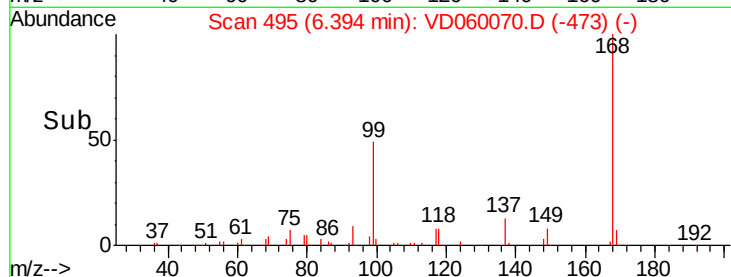
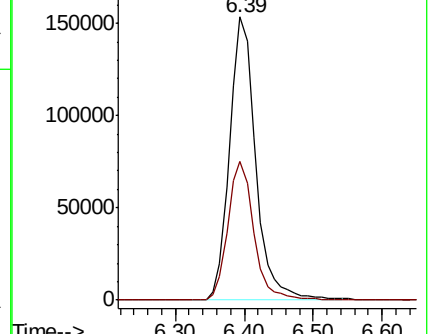
168 100

99 48.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.778 ug/l

RT: 2.16 min Scan# 65

Delta R.T. 0.04 min

Lab File: VD060070.D

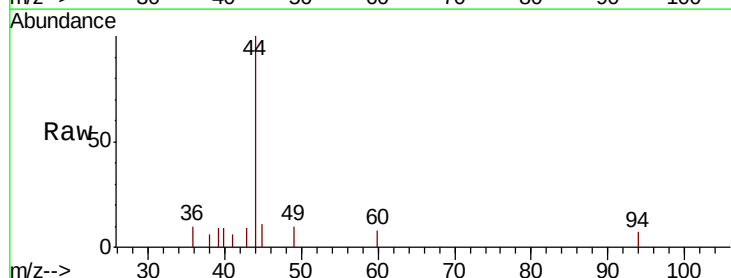
Acq: 21 Sep 2018 14:39

Tgt Ion: 94 Resp: 637

Ion Ratio Lower Upper

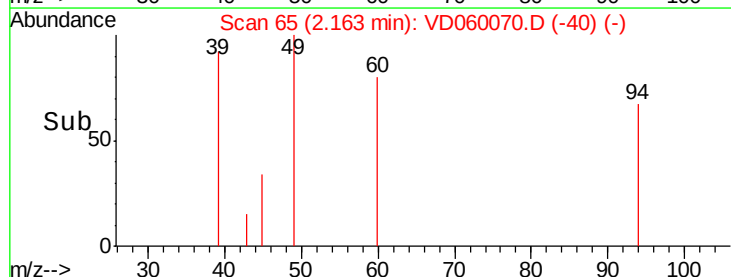
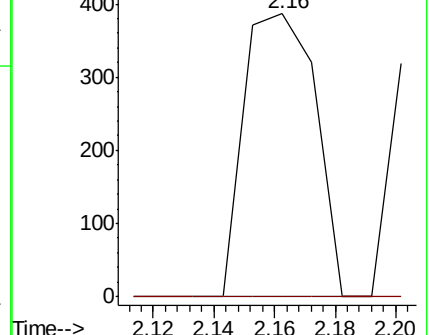
94 100

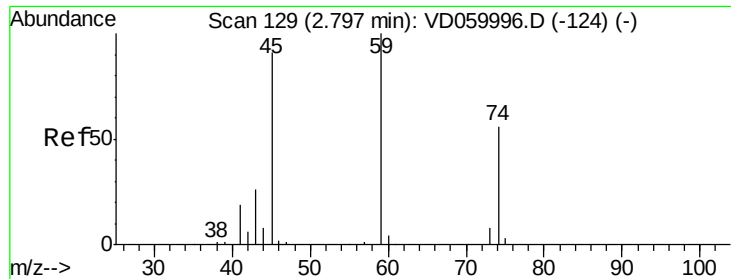
96 0.0 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#8

Diethyl Ether

Concen: 1.477 ug/l

RT: 2.81 min Scan# 131

Delta R.T. 0.02 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

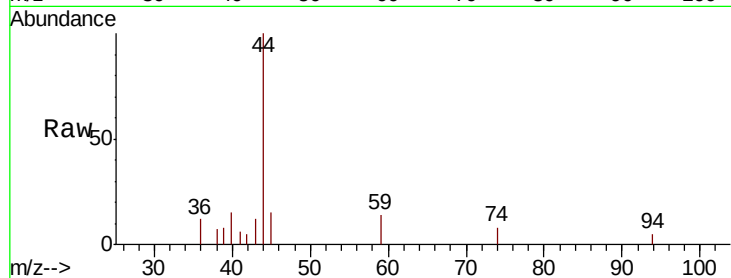
RA-091918-S-SW-058RE

Tot Ion: 74 Resp: 1046

Ion Ratio Lower Upper

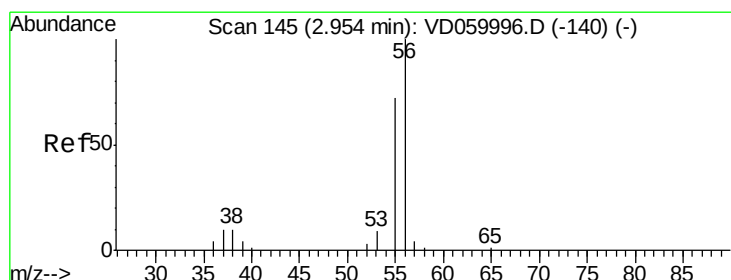
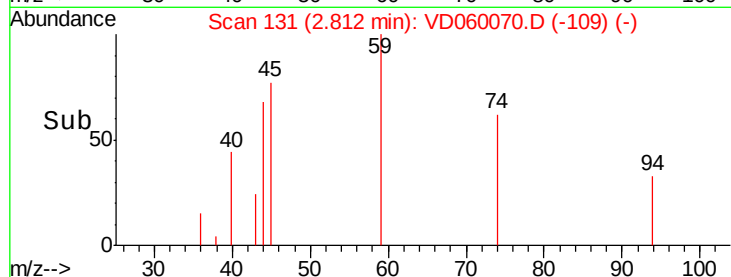
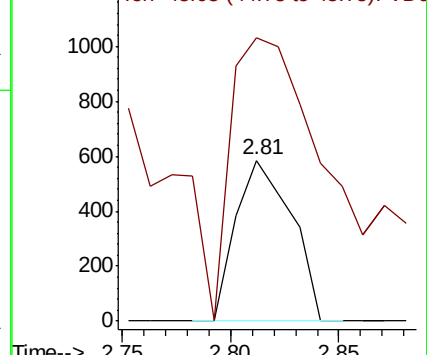
74 100

45 176.4 81.2 243.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#13

Acrolein

Concen: 1.392 ug/l

RT: 2.97 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD060070.D

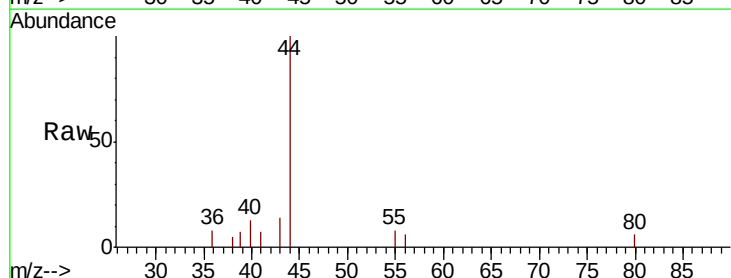
Acq: 21 Sep 2018 14:39

Tgt Ion: 56 Resp: 219

Ion Ratio Lower Upper

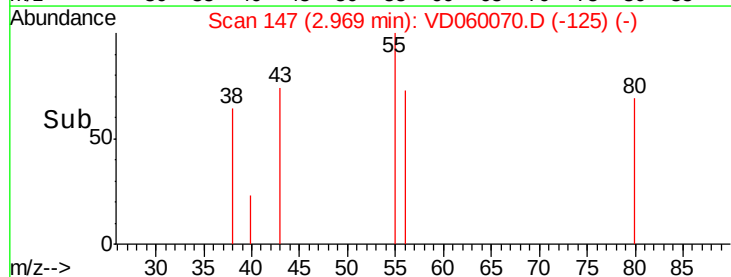
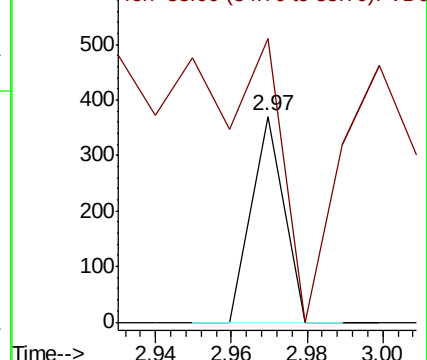
56 100

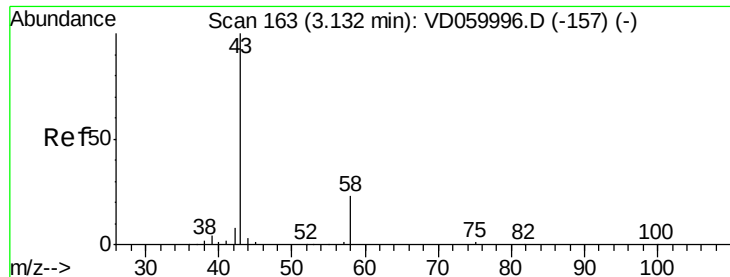
55 137.5 58.3 87.5#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 148.829 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.02 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

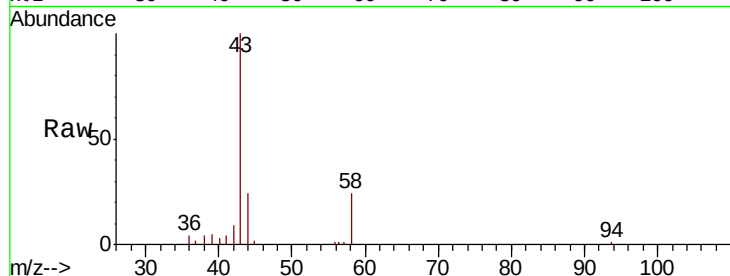
RA-091918-S-SW-058RE

Tot Ion: 43 Resp: 90462

Ion Ratio Lower Upper

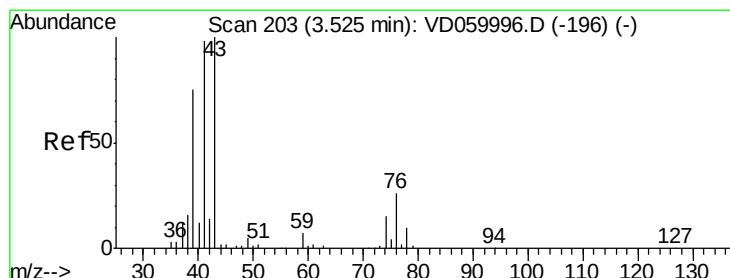
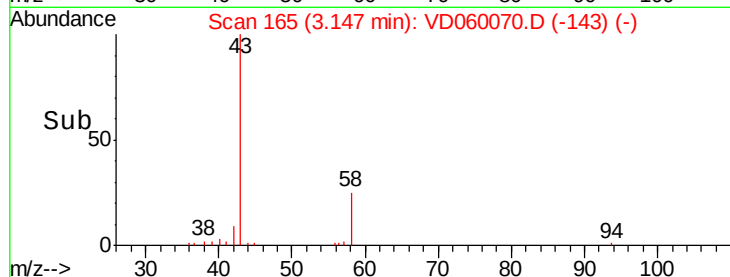
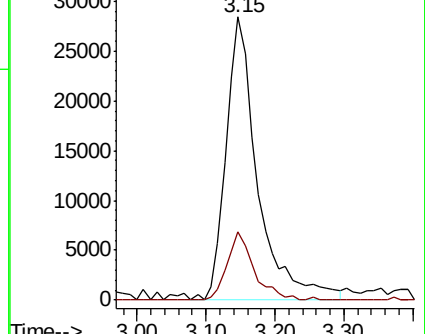
43 100

58 24.2 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.827 ug/l

RT: 3.55 min Scan# 206

Delta R.T. 0.02 min

Lab File: VD060070.D

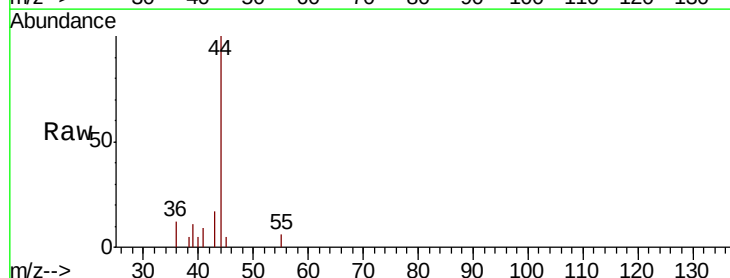
Acq: 21 Sep 2018 14:39

Tgt Ion: 43 Resp: 2259

Ion Ratio Lower Upper

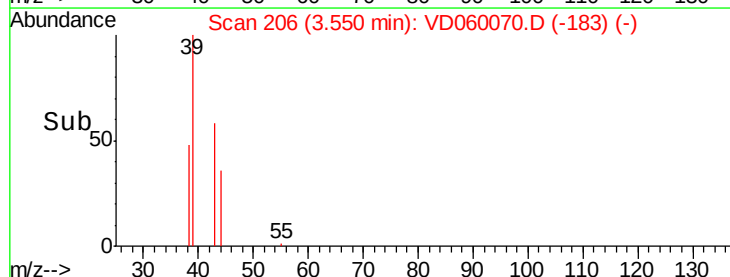
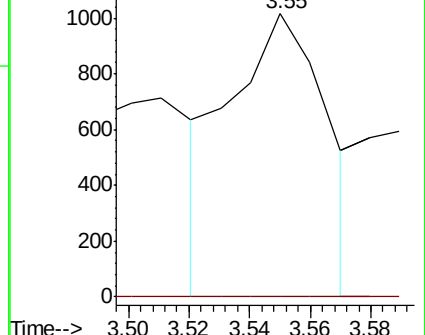
43 100

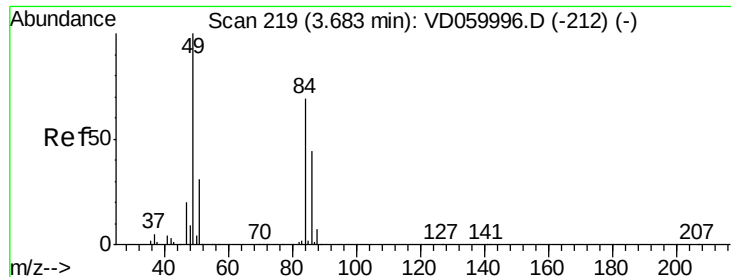
74 0.0 11.8 17.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

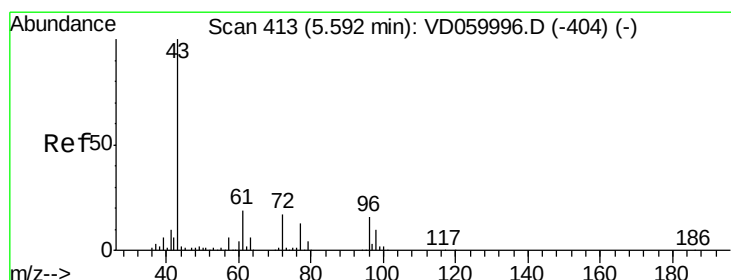
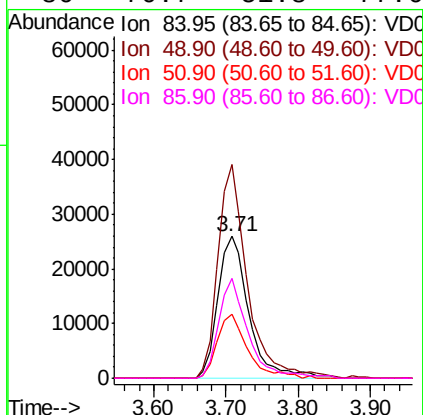
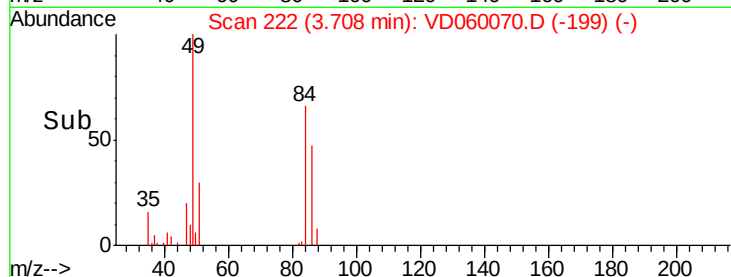
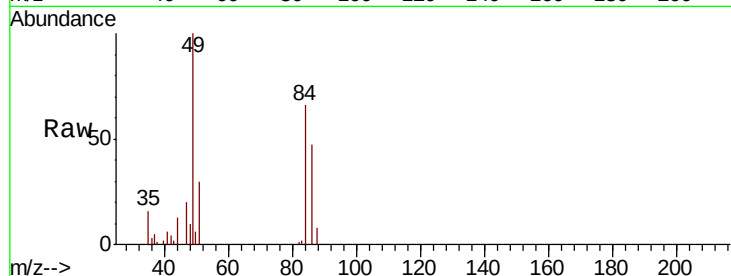




#20
Methylene Chloride
Concen: 12.395 ug/l
RT: 3.71 min Scan# 222
Delta R.T. 0.03 min
Lab File: VD060070.D
Acq: 21 Sep 2018 14:39

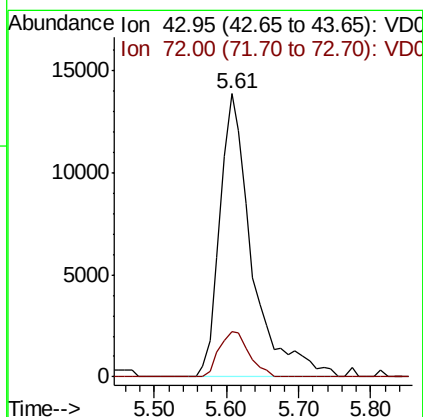
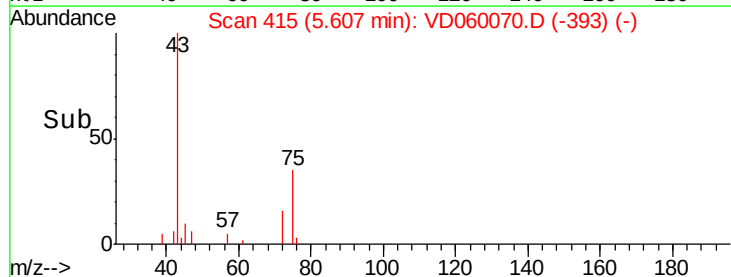
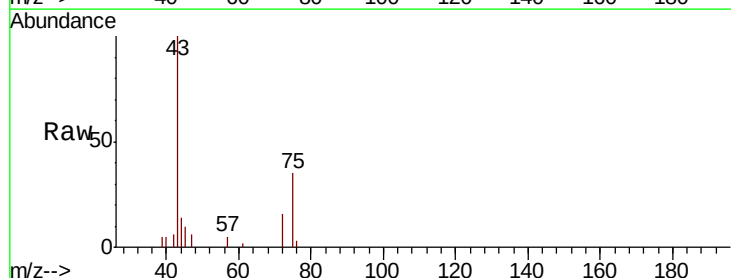
Instrument :
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ClientSampleId :
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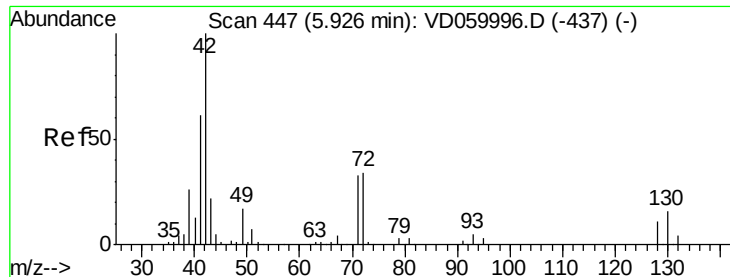
Tot Ion: 84 Resp: 77053
Ion Ratio Lower Upper
84 100
49 150.4 116.6 175.0
51 44.7 35.9 53.9
86 70.7 51.8 77.6



#25
2-Butanone
Concen: 26.145 ug/l
RT: 5.61 min Scan# 415
Delta R.T. 0.02 min
Lab File: VD060070.D
Acq: 21 Sep 2018 14:39

Tgt Ion: 43 Resp: 42883
Ion Ratio Lower Upper
43 100
72 16.2 13.6 20.4





#29

Tetrahydrofuran

Concen: 2.827 ug/l

RT: 5.95 min Scan# 450

Delta R.T. 0.02 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058RE

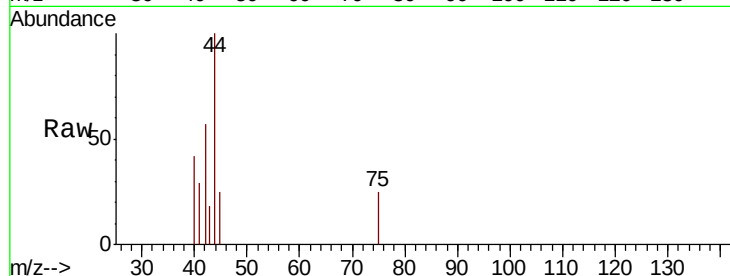
Tot Ion: 42 Resp: 2487

Ion Ratio Lower Upper

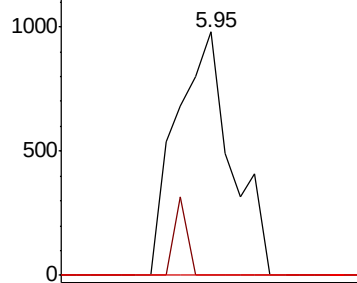
42 100

72 0.0 26.9 40.3#

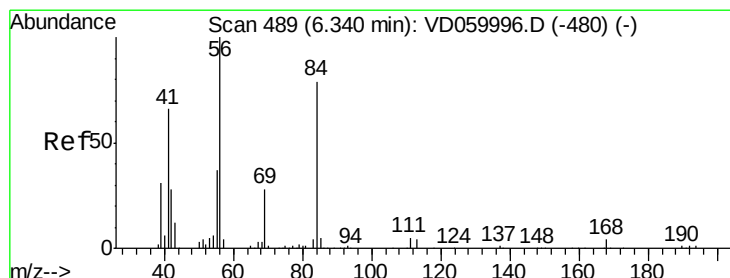
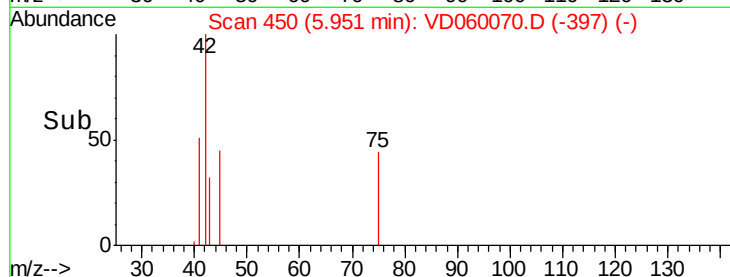
71 0.0 26.2 39.4#



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



Time-->



#31

Cyclohexane

Concen: 1.224 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.05 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

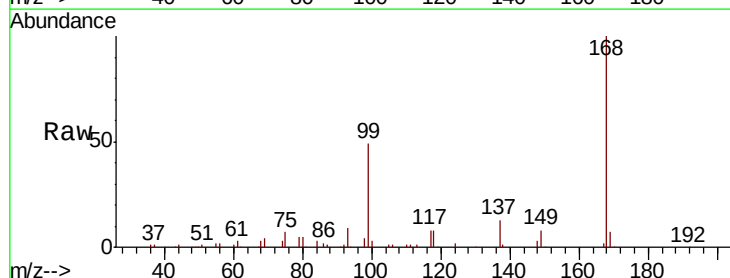
Tgt Ion: 56 Resp: 8561

Ion Ratio Lower Upper

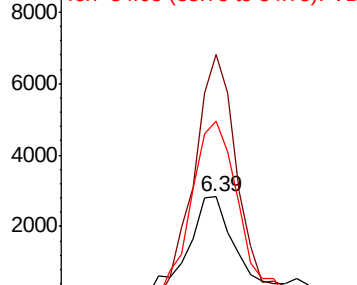
56 100

69 240.8 22.7 34.1#

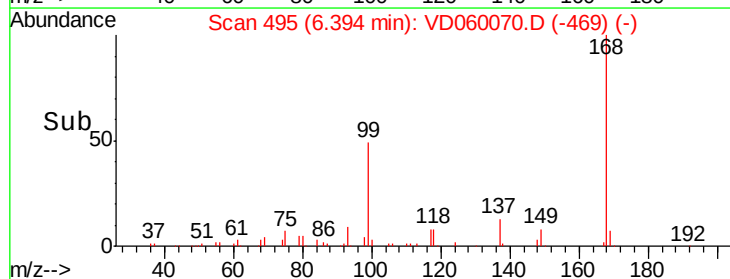
84 175.8 64.0 96.0#

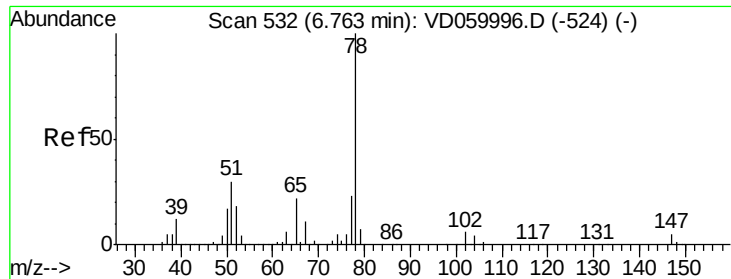


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



Time-->

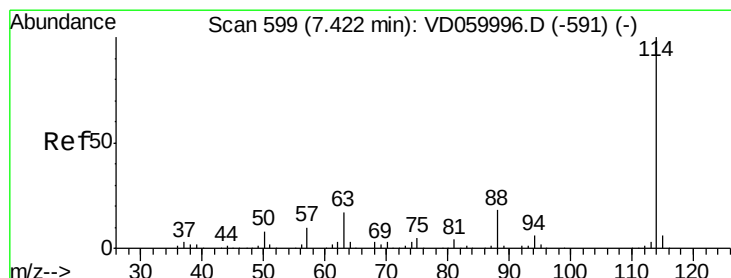
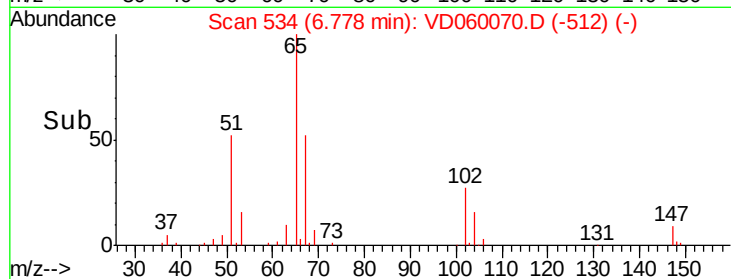
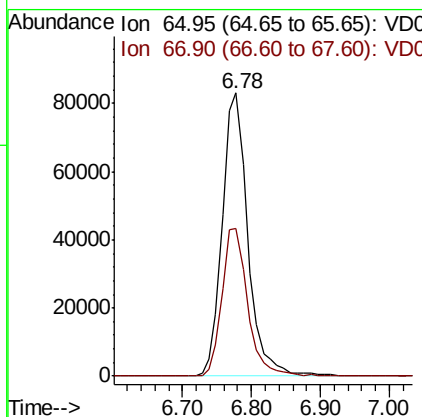
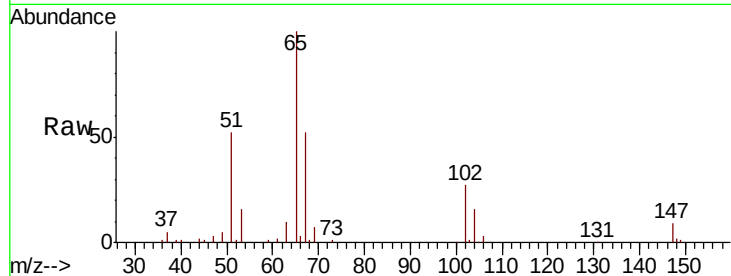




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.78 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VD060070.D
 Acq: 21 Sep 2018 14:39

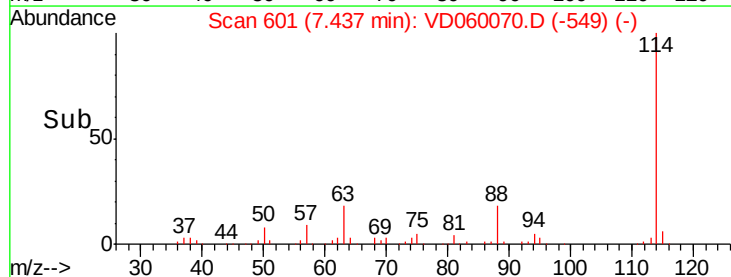
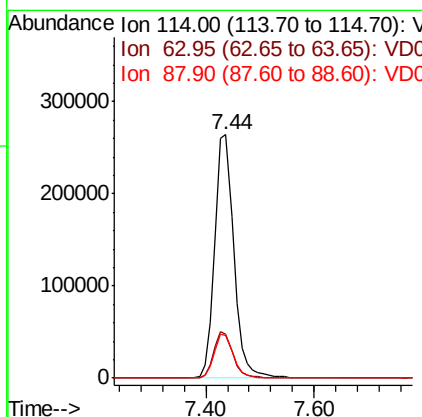
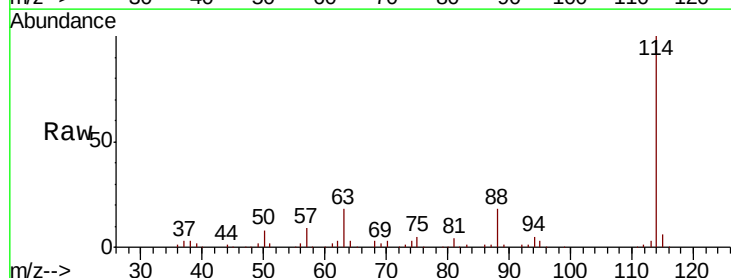
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 MSVOA_D
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 RA-091918-S-SW-058RE

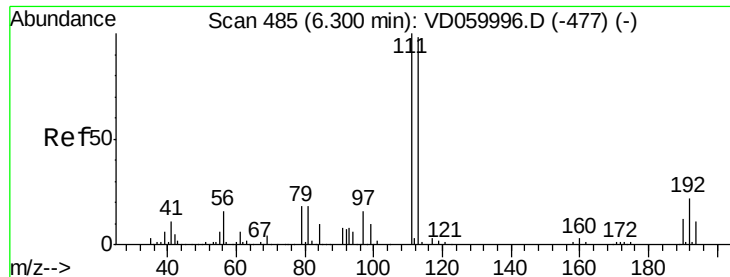
Tot Ion: 65 Resp: 214340
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. 0.02 min
 Lab File: VD060070.D
 Acq: 21 Sep 2018 14:39

Tgt Ion: 114 Resp: 649125
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 34.4
 88 17.6 0.0 35.8

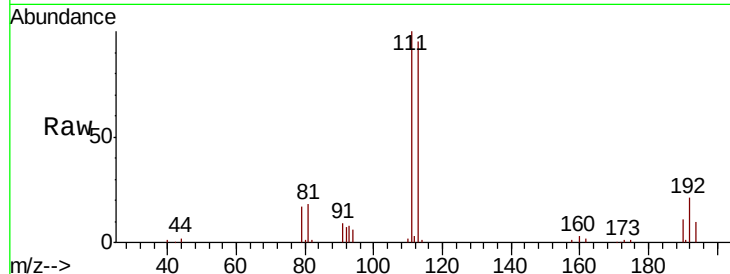




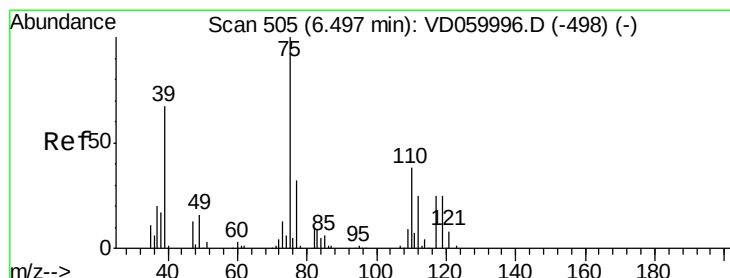
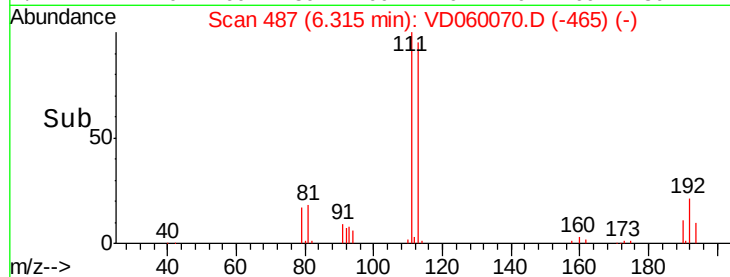
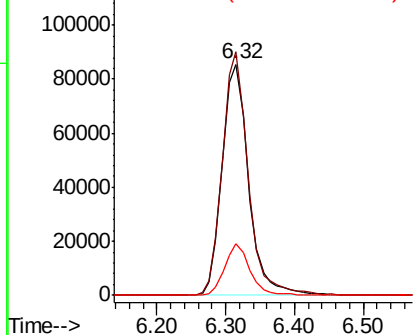
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.32 min Scan# 487
 Delta R.T. 0.02 min
 Lab File: VD060070.D
 Acq: 21 Sep 2018 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058RE

Tot Ion	Ratio	Lower	Upper
113	100		
111	105.5	81.3	121.9
192	22.1	18.1	27.1

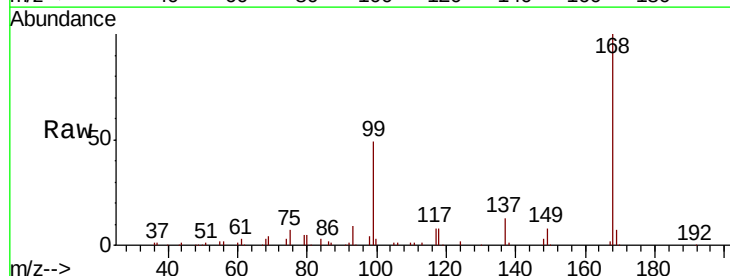


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

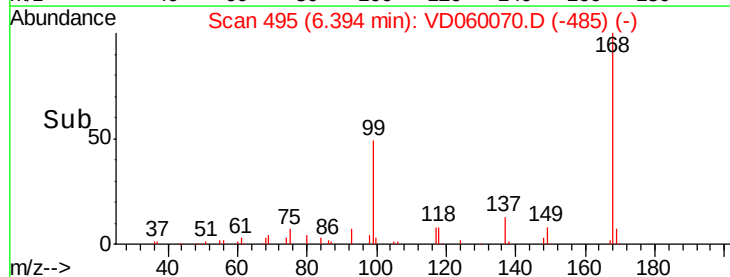
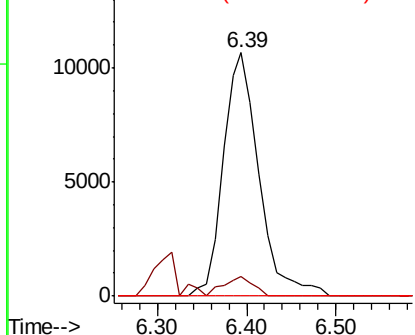


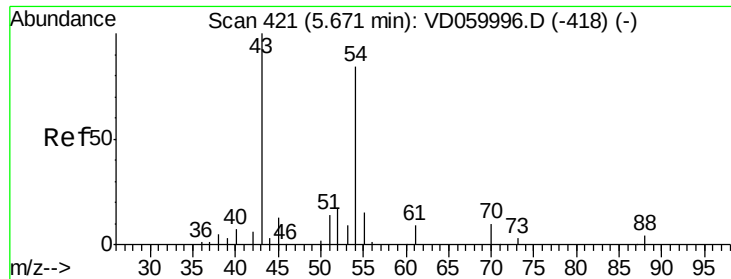
#36
 1,1-Dichloropropene
 Concen: 4.614 ug/l
 RT: 6.39 min Scan# 495
 Delta R.T. -0.10 min
 Lab File: VD060070.D
 Acq: 21 Sep 2018 14:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.9	56.9#
77	0.0	25.3	37.9#



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

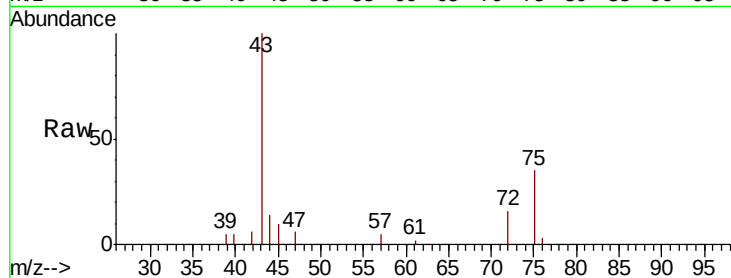




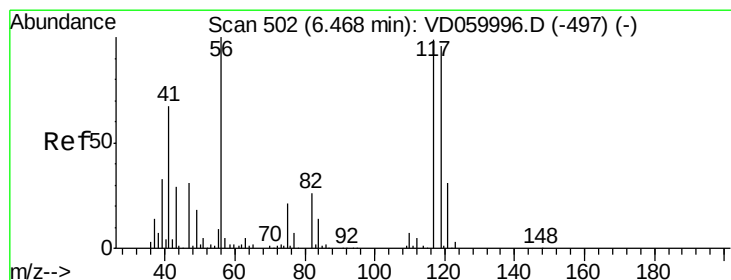
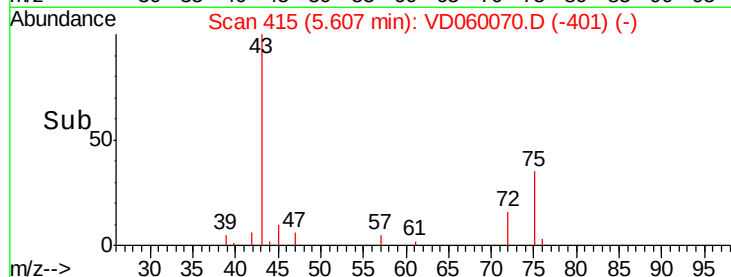
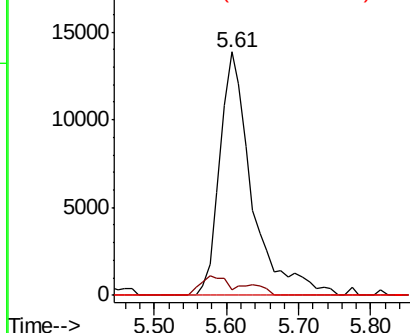
#37
Ethyl Acetate
Concen: 9.671 ug/l
RT: 5.61 min Scan# 415
Delta R.T. -0.06 min
Lab File: VD060070.D
Acq: 21 Sep 2018 14:39

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-SW-058RE

Tot Ion: 43 Resp: 42883
Ion Ratio Lower Upper
43 100
61 2.4 10.2 15.2#
70 0.0 6.1 9.1#

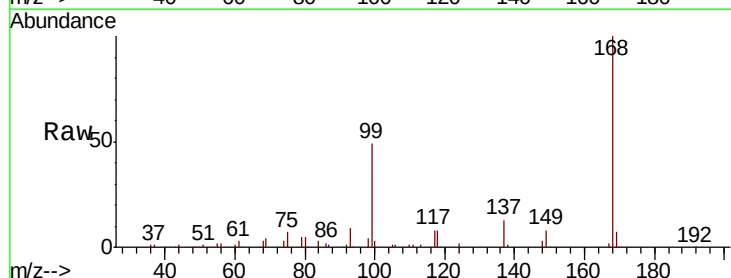


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

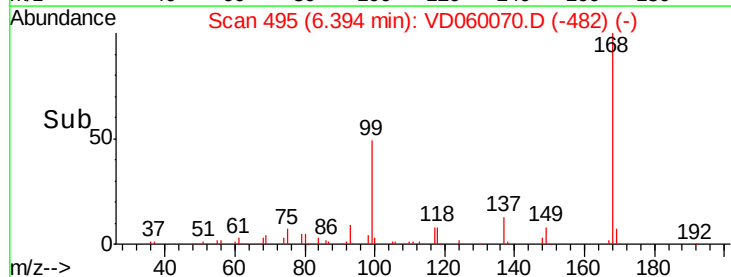
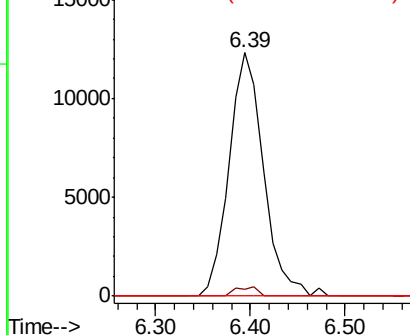


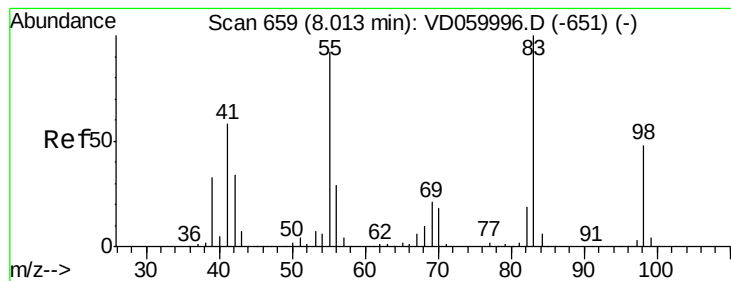
#38
Carbon Tetrachloride
Concen: 5.160 ug/l
RT: 6.39 min Scan# 495
Delta R.T. -0.07 min
Lab File: VD060070.D
Acq: 21 Sep 2018 14:39

Tgt Ion: 117 Resp: 31061
Ion Ratio Lower Upper
117 100
119 3.0 76.7 115.1#
121 0.0 24.9 37.3#



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





#39

Methylcyclohexane

Concen: 1.459 ug/l

RT: 8.03 min Scan# 661

Delta R.T. 0.02 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058RE

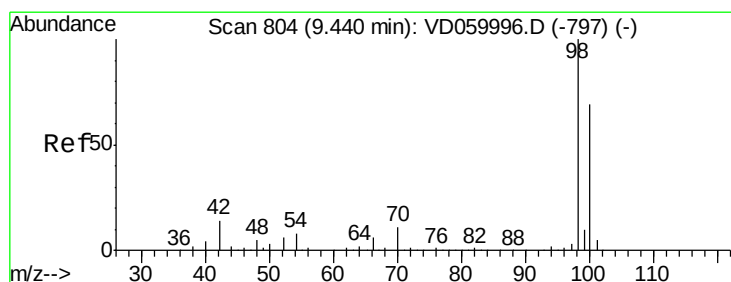
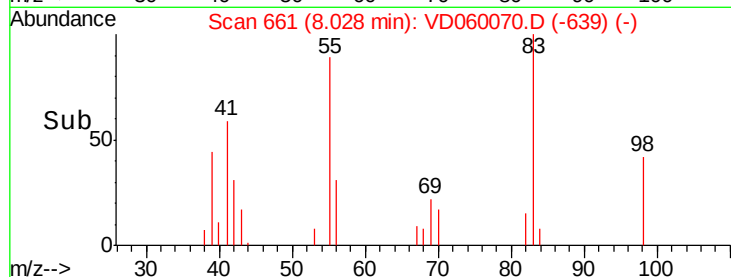
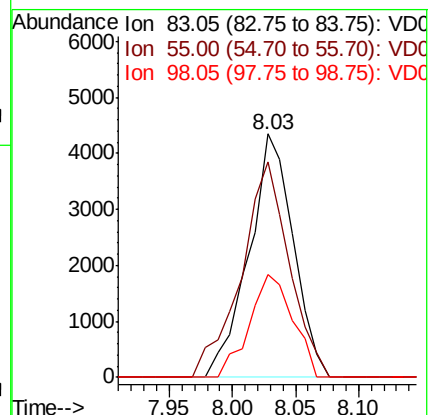
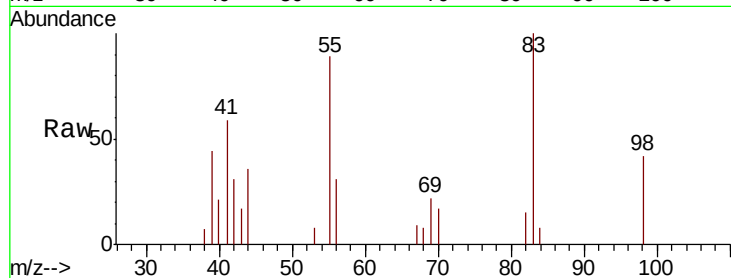
Tot Ion: 83 Resp: 10643

Ion Ratio Lower Upper

83 100

55 88.6 73.8 110.6

98 42.1 38.1 57.1



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.44 min Scan# 805

Delta R.T. 0.01 min

Lab File: VD060070.D

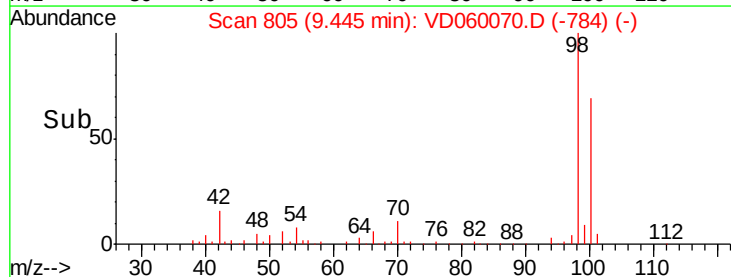
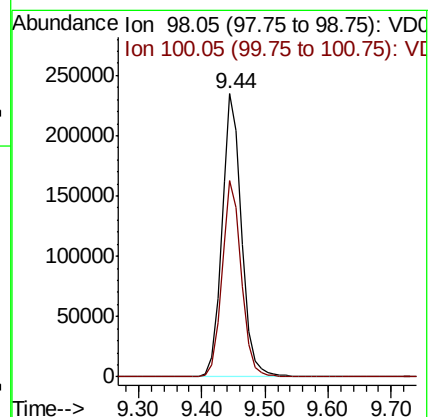
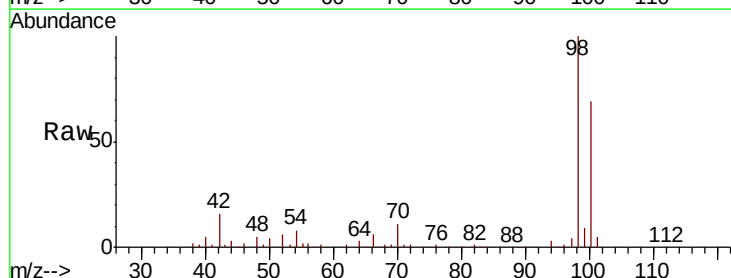
Acq: 21 Sep 2018 14:39

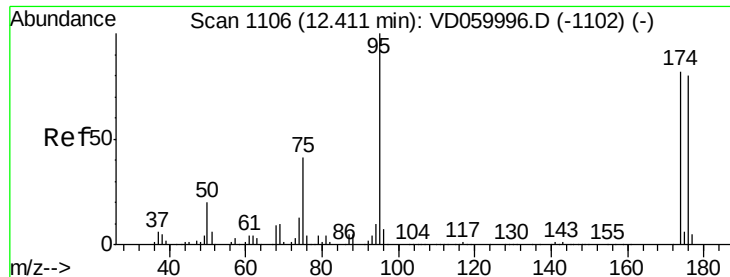
Tgt Ion: 98 Resp: 508661

Ion Ratio Lower Upper

98 100

100 69.4 55.8 83.6

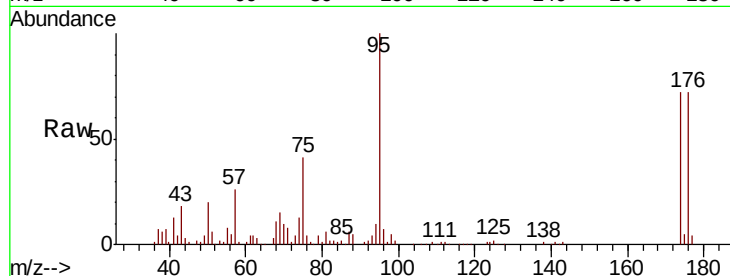




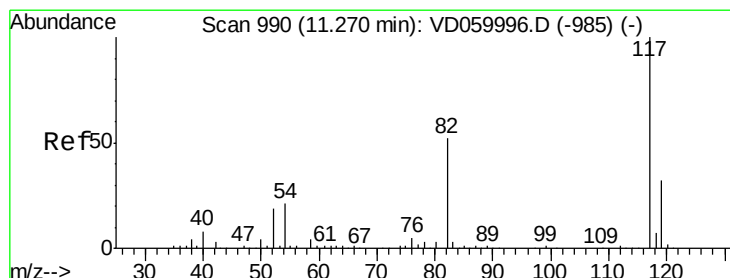
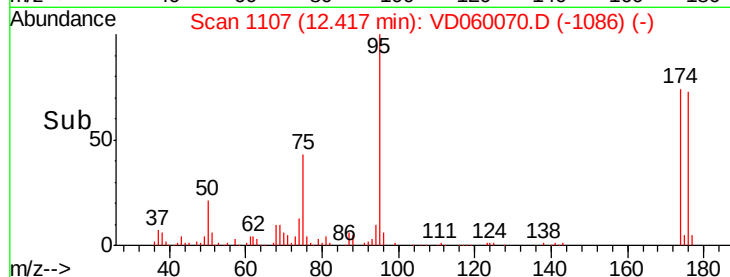
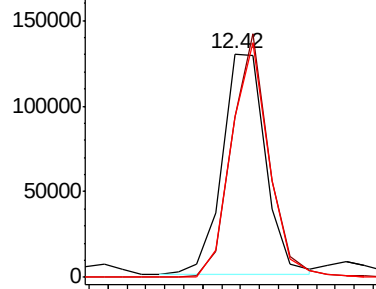
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD060070.D
Acq: 21 Sep 2018 14:39

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-SW-058RE

Tot Ion: 95 Resp: 205633
Ion Ratio Lower Upper
95 100
174 72.0 0.0 165.0
176 71.5 0.0 160.2

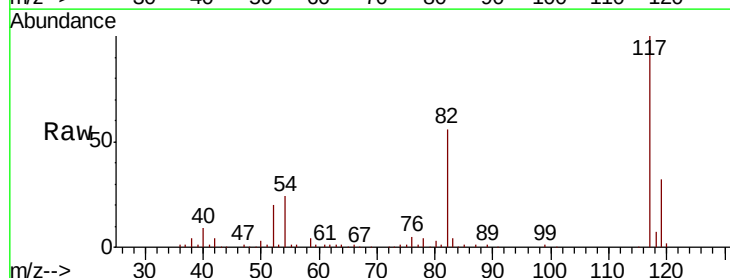


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

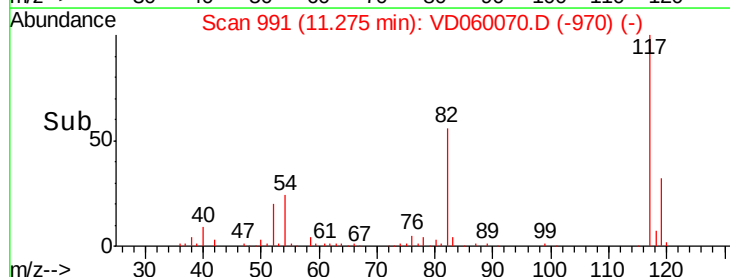
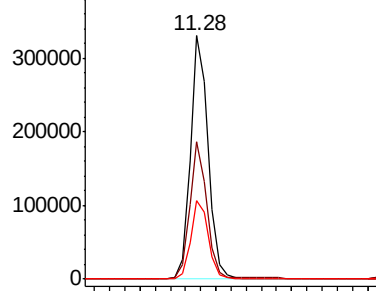


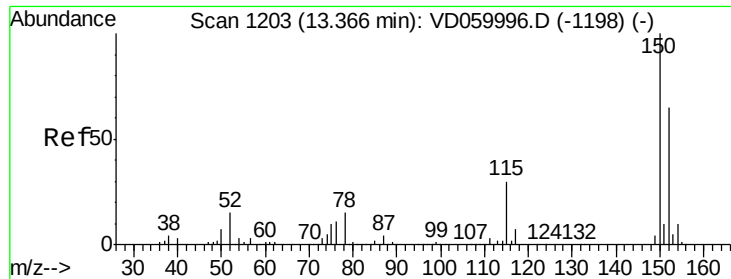
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060070.D
Acq: 21 Sep 2018 14:39

Tgt Ion: 117 Resp: 541114
Ion Ratio Lower Upper
117 100
82 56.4 41.7 62.5
119 32.0 26.0 39.0



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: 13.37 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058RE

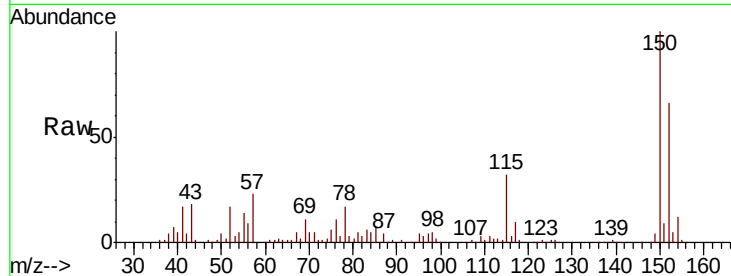
Tot Ion:152 Resp: 238698

Ion Ratio Lower Upper

152 100

115 48.6 24.6 73.8

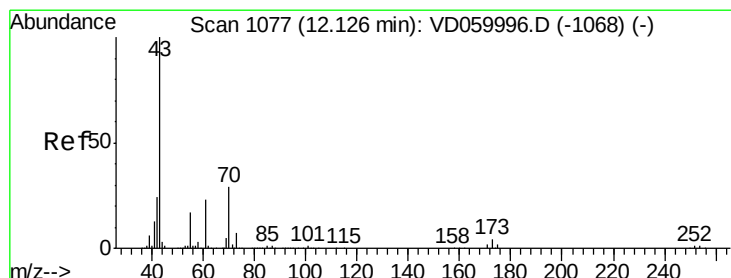
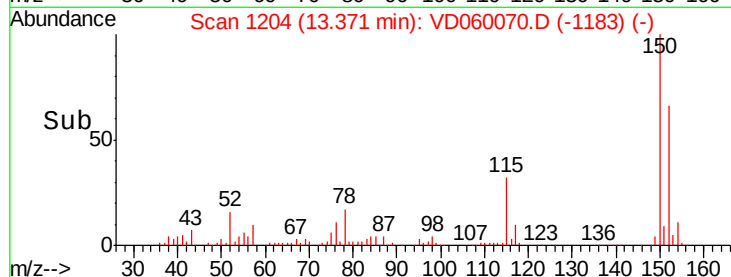
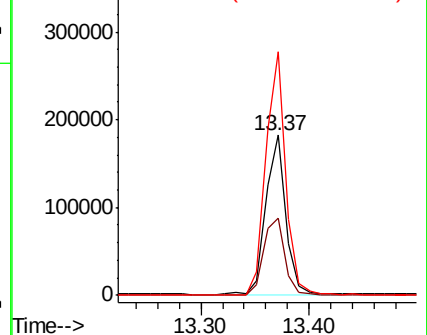
150 152.2 0.0 313.4



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



#74

N-amil acetate

Concen: 10.536 ug/l

RT: 12.08 min Scan# 1073

Delta R.T. -0.04 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Tgt Ion: 43 Resp: 65333

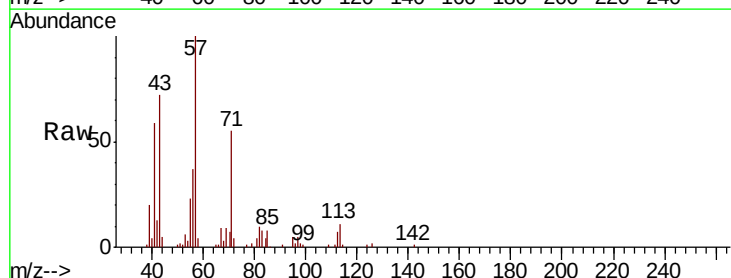
Ion Ratio Lower Upper

43 100

70 10.3 22.9 34.3#

55 31.5 14.0 21.0#

61 0.0 18.7 28.1#

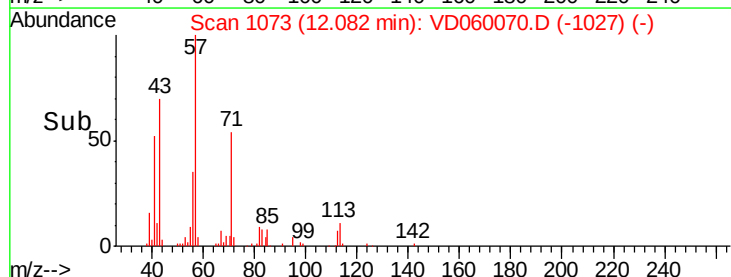
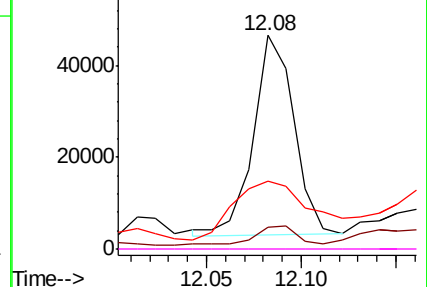


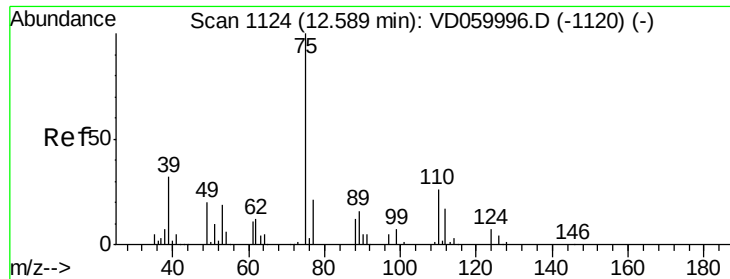
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#76

1,2,3-Trichloropropane

Concen: 19.770 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.17 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

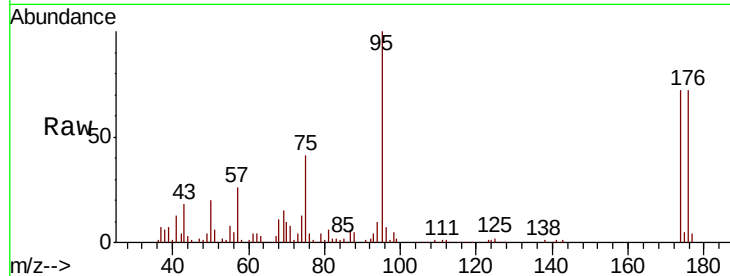
RA-091918-S-SW-058RE

Tot Ion: 75 Resp: 72074

Ion Ratio Lower Upper

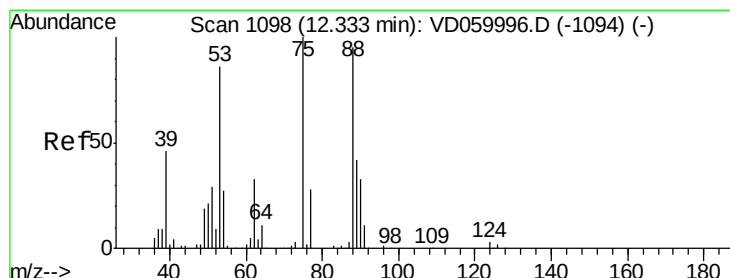
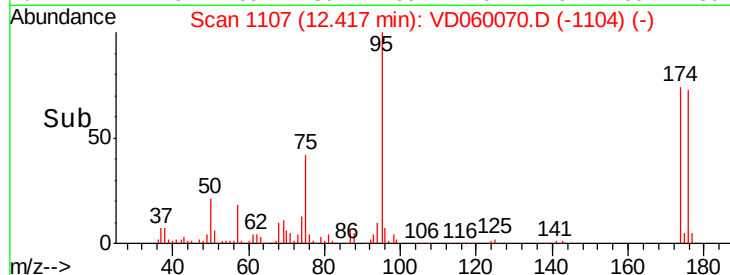
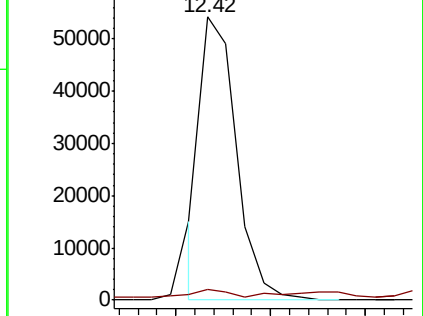
75 100

77 3.6 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 74.100 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.08 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

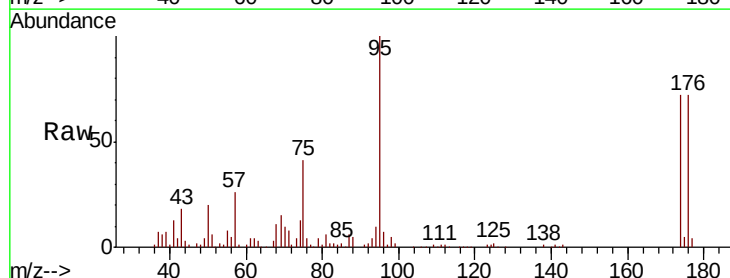
Tgt Ion: 75 Resp: 81545

Ion Ratio Lower Upper

75 100

53 5.6 68.4 102.6#

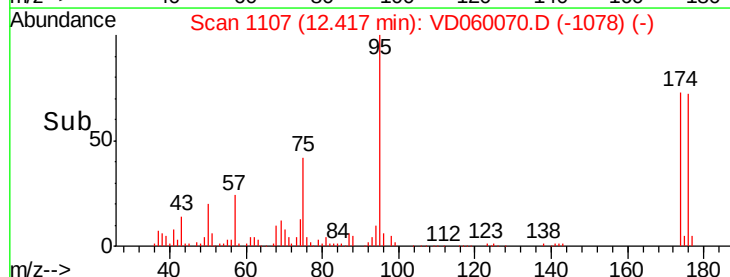
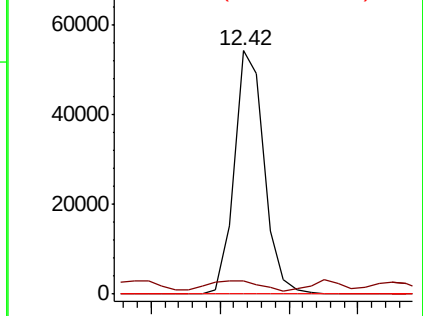
89 0.0 33.8 50.6#

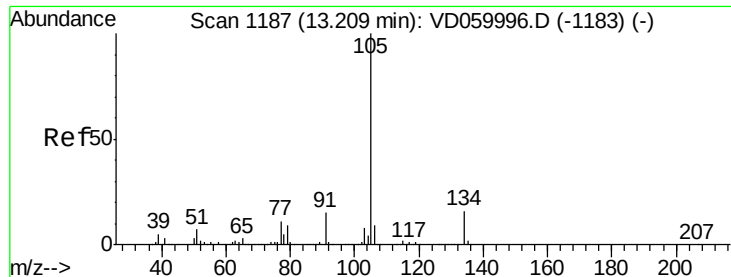


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#85

sec-Butylbenzene

Concen: 1.790 ug/l

RT: 13.21 min Scan# 1188

Delta R.T. 0.01 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument:

MSVOA_D

ClientSampleId:

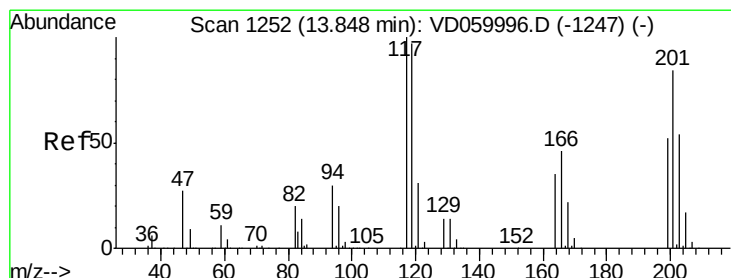
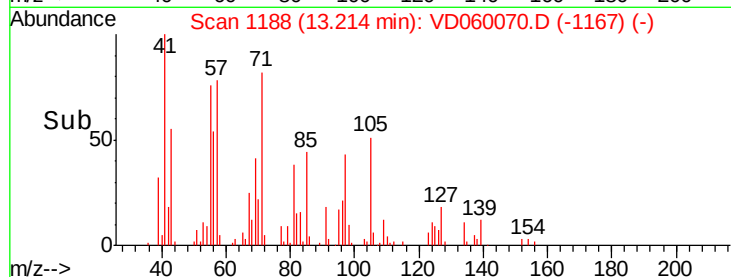
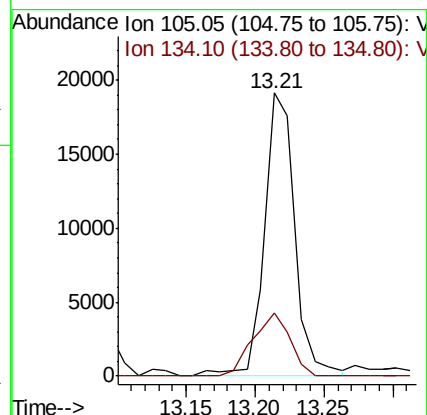
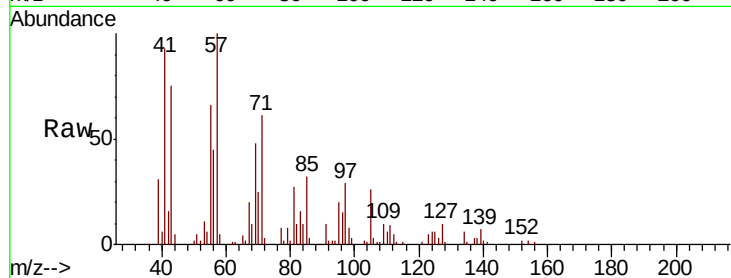
RA-091918-S-SW-058RE

Tot Ion:105 Resp: 29532

Ion Ratio Lower Upper

105 100

134 22.2 8.2 24.6



#90

Hexachloroethane

Concen: 3.137 ug/l

RT: 13.90 min Scan# 1258

Delta R.T. 0.05 min

Lab File: VD060070.D

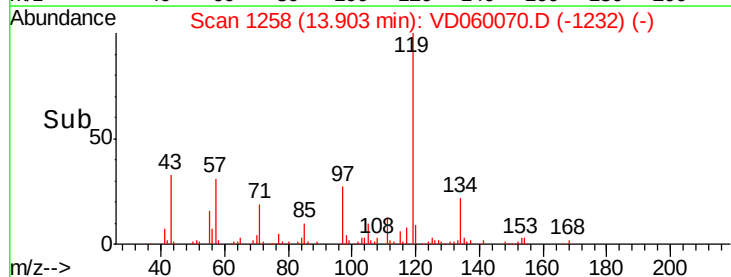
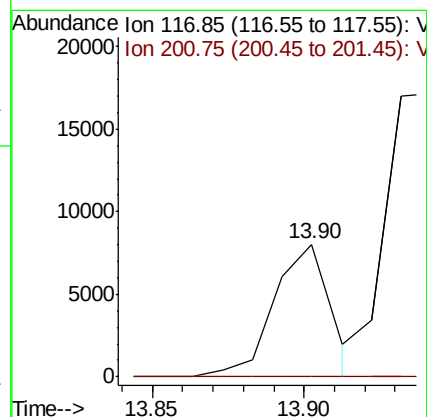
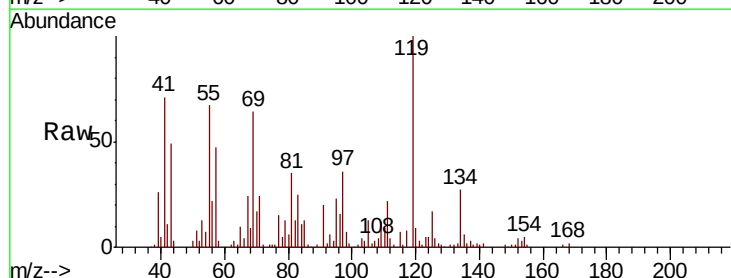
Acq: 21 Sep 2018 14:39

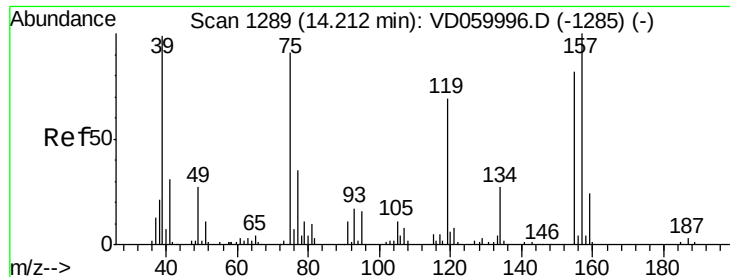
Tgt Ion:117 Resp: 10371

Ion Ratio Lower Upper

117 100

201 0.0 42.1 126.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.718 ug/l

RT: 14.19 min Scan# 1287

Delta R.T. -0.02 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058RE

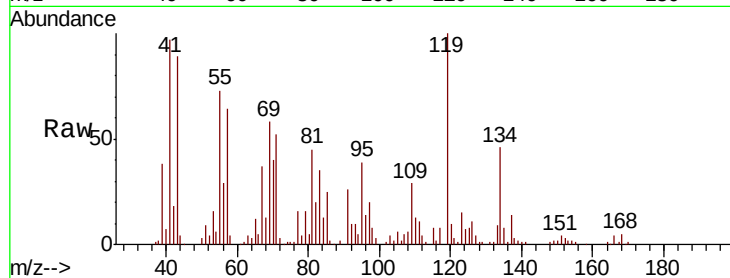
Tot Ion: 75 Resp: 3096

Ion Ratio Lower Upper

75 100

155 79.5 44.7 134.1

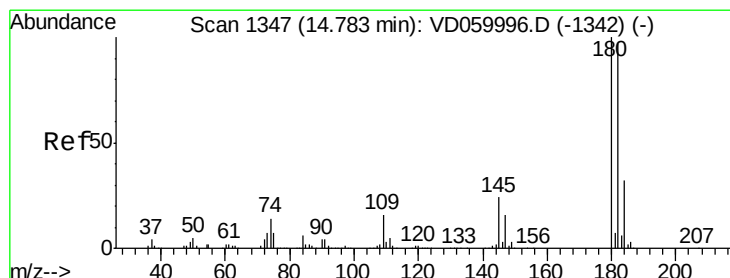
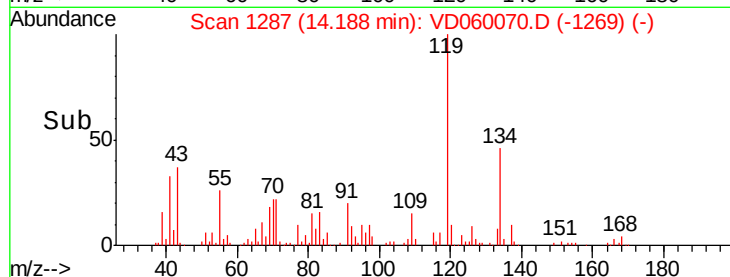
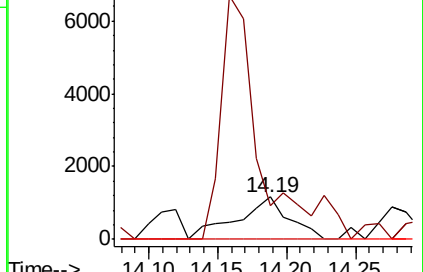
157 0.0 54.7 164.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#93

1,2,4-Trichlorobenzene

Concen: 2.844 ug/l

RT: 14.75 min Scan# 1344

Delta R.T. -0.03 min

Lab File: VD060070.D

Acq: 21 Sep 2018 14:39

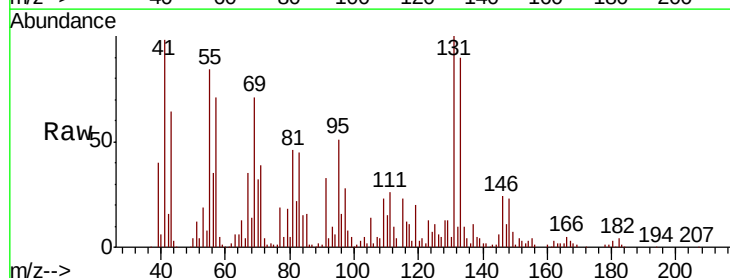
Tgt Ion: 180 Resp: 15892

Ion Ratio Lower Upper

180 100

182 130.9 48.5 145.6

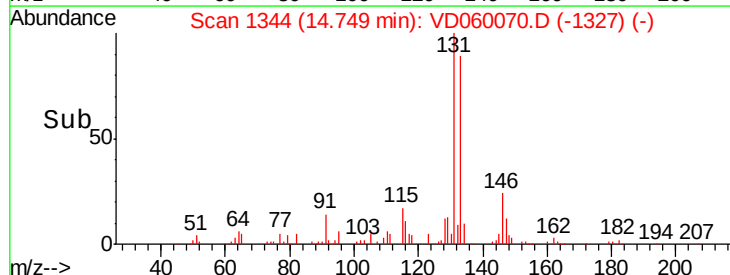
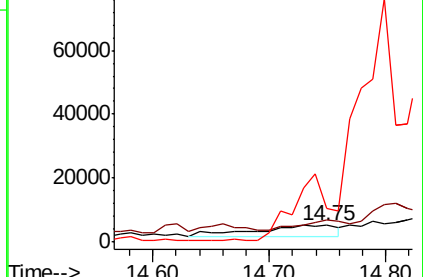
145 202.0 11.9 35.7#

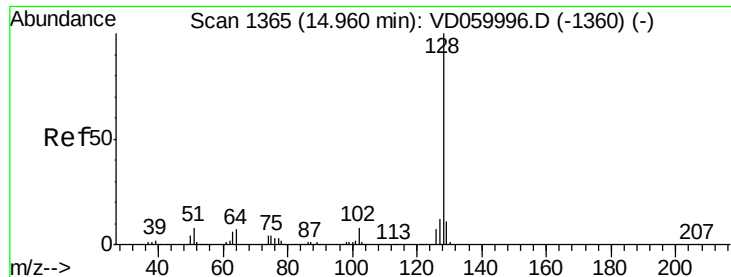


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

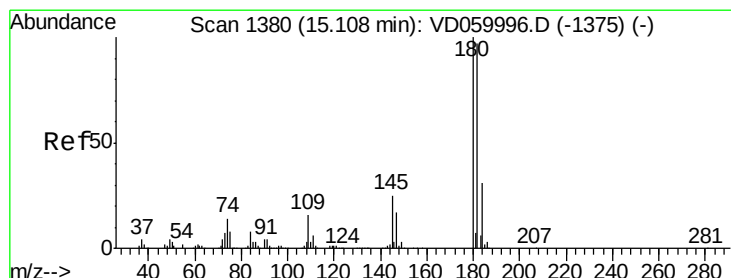
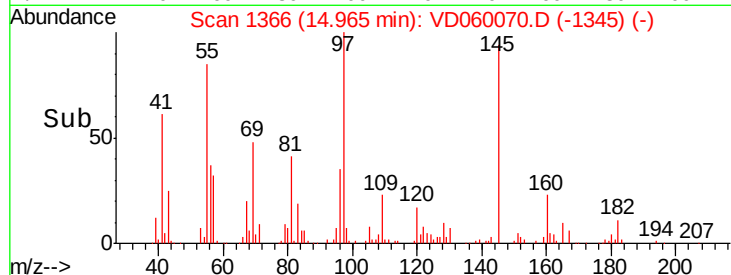
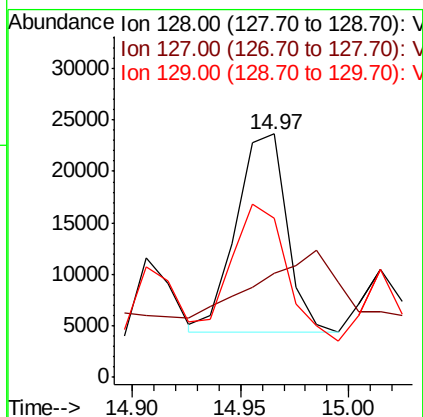
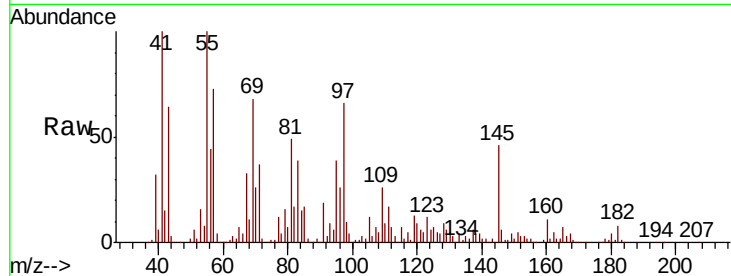




#95
Naphthalene
Concen: 3.632 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060070.D
Acq: 21 Sep 2018 14:39

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-SW-058RE

Tot Ion:128 Resp: 31343
Ion Ratio Lower Upper
128 100
127 42.6 9.7 14.5#
129 65.6 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 3.888 ug/l
RT: 15.02 min Scan# 1372
Delta R.T. -0.08 min
Lab File: VD060070.D
Acq: 21 Sep 2018 14:39

Tgt Ion:180 Resp: 19147
Ion Ratio Lower Upper
180 100
182 61.6 48.6 145.9
145 33.0 12.7 38.1

