

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD092418\
 Data File : VD060080.D
 Acq On : 24 Sep 2018 14:19
 Operator : VA/AP
 Sample : J5017-02RE
 Misc : 5.15g/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-N-FL-056RE

Quant Time: Sep 25 00:59:17 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	6.37	168	626143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.41	114	1020267	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.27	117	770041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	248794	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.75	65	221621	45.39	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	90.78%	
35) Dibromofluoromethane	6.30	113	244054	30.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	61.24%	
50) Toluene-d8	9.43	98	515755	23.35	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	46.70%	
62) 4-Bromofluorobenzene	12.41	95	189262	22.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	44.86%	

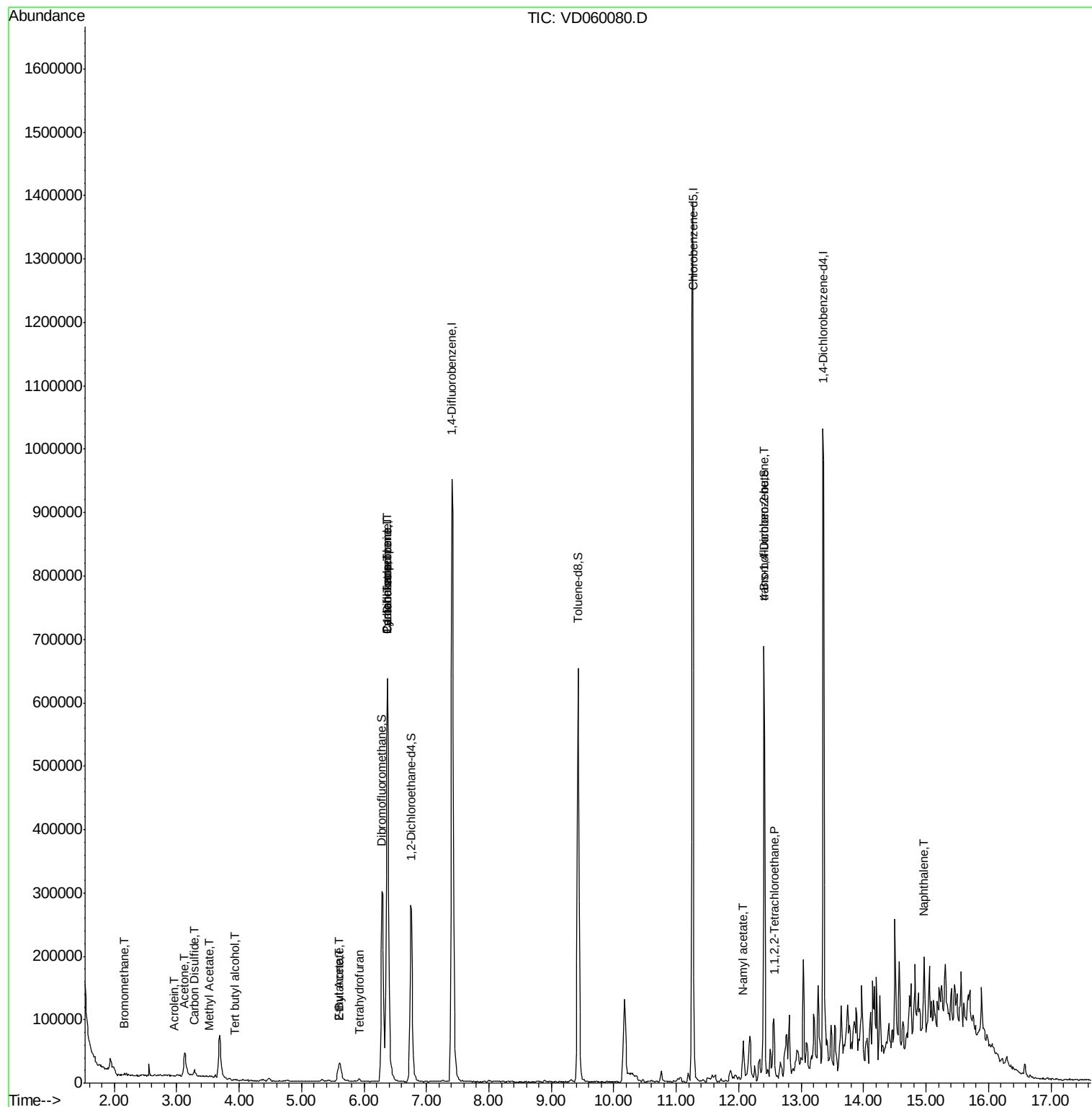
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	870	1.566	ug/l #	1
11) Tert butyl alcohol	3.93	59	422	1.071	ug/l #	74
13) Acrolein	2.95	56	528	2.164	ug/l #	13
16) Acetone	3.13	43	76692	81.350	ug/l	98
17) Carbon Disulfide	3.28	76	11906	1.341	ug/l	100
18) Methyl Acetate	3.51	43	5629	2.936	ug/l #	64
20) Methylene Chloride	3.69	84	41829	Below Cal		99
25) 2-Butanone	5.59	43	41930	16.482	ug/l	92
29) Tetrahydrofuran	5.92	42	3575	2.620	ug/l #	69
31) Cyclohexane	6.36	56	11284	1.041	ug/l #	1
36) 1,1-Dichloropropene	6.37	75	44067	4.348	ug/l #	44
37) Ethyl Acetate	5.59	43	41930	6.016	ug/l #	72
38) Carbon Tetrachloride	6.37	117	50131	5.299	ug/l #	16
51) 4-Methyl-2-Pentanone	9.31	43	5093	Below Cal	#	87
59) 2-Hexanone	10.47	43	3798	Below Cal		75
74) N-amyl acetate	12.07	43	13483	2.086	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.56	83	4370	1.181	ug/l #	39
81) trans-1,4-Dichloro-2-buten	12.41	75	77690	67.732	ug/l #	16
89) n-Butylbenzene	13.64	91	18703	Below Cal		94
91) 1,2-Dichlorobenzene	13.65	146	1832	Below Cal	#	71
95) Naphthalene	14.96	128	11873	1.320	ug/l #	86

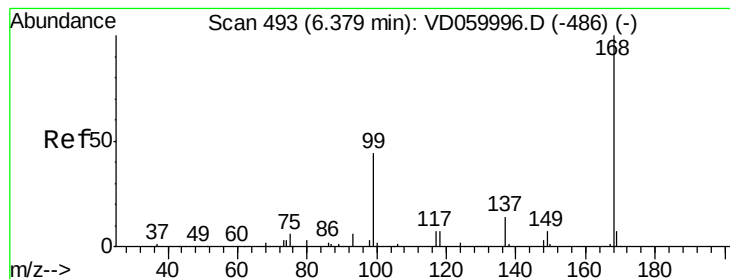
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.00 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

Instrument :

MSVOA_D

ClientSampleId :

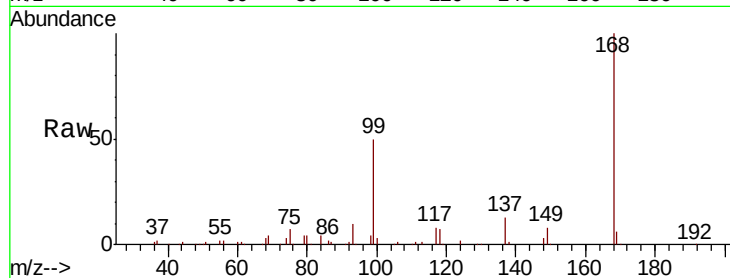
RA-091918-N-FL-056RE

Tgt Ion:168 Resp: 626143

Ion Ratio Lower Upper

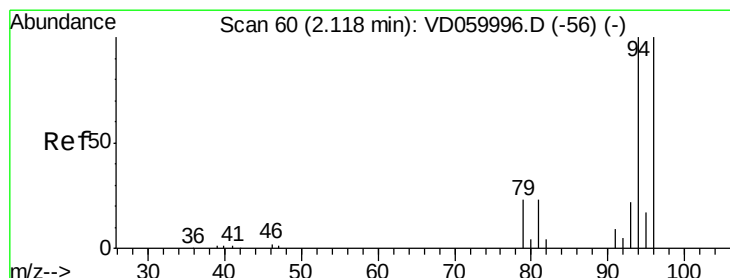
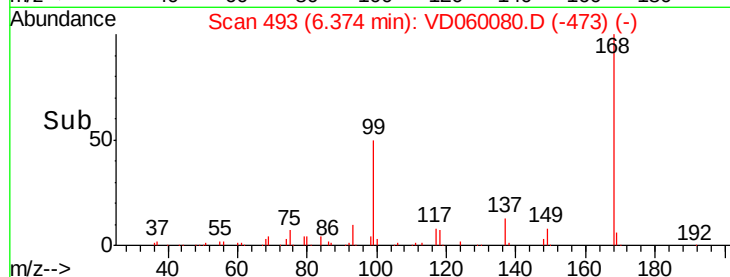
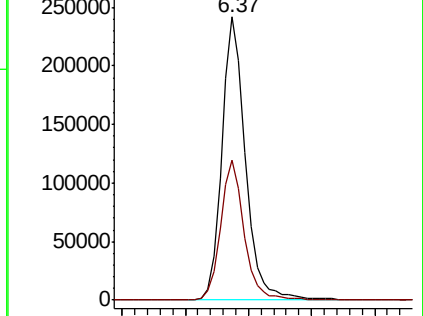
168 100

99 49.6 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: 1.566 ug/l

RT: 2.16 min Scan# 65

Delta R.T. 0.04 min

Lab File: VD060080.D

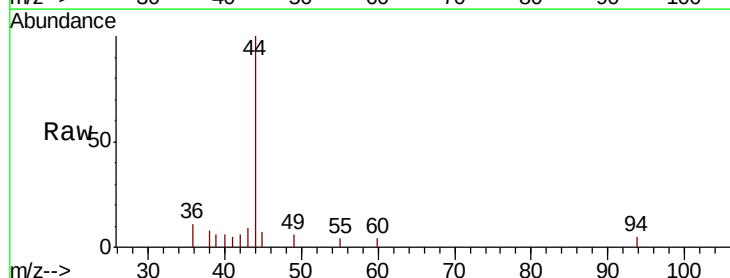
Acq: 24 Sep 2018 14:19

Tgt Ion: 94 Resp: 870

Ion Ratio Lower Upper

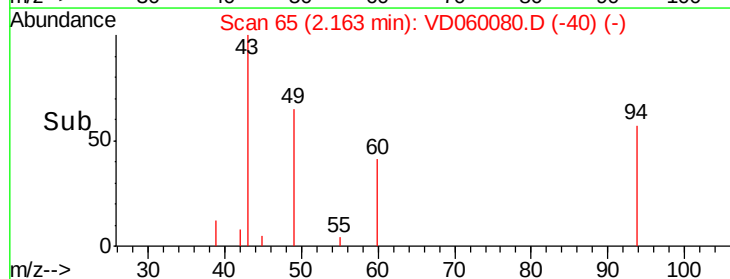
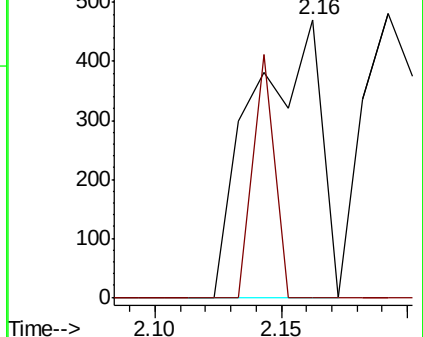
94 100

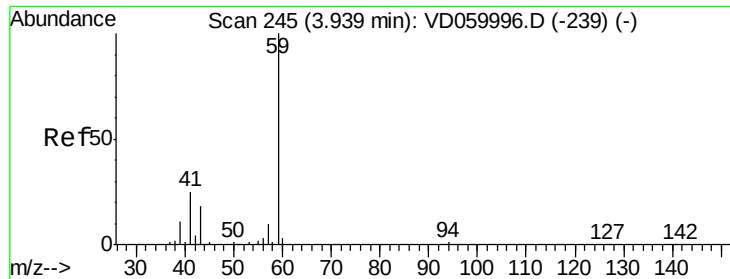
96 0.0 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

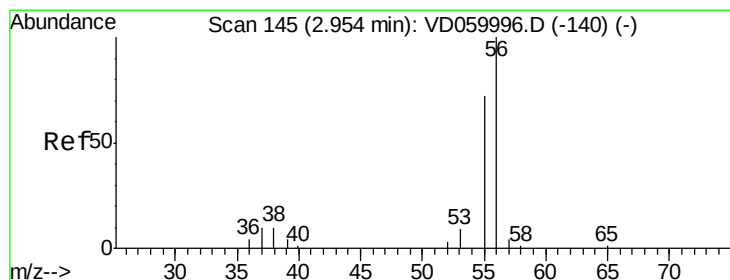
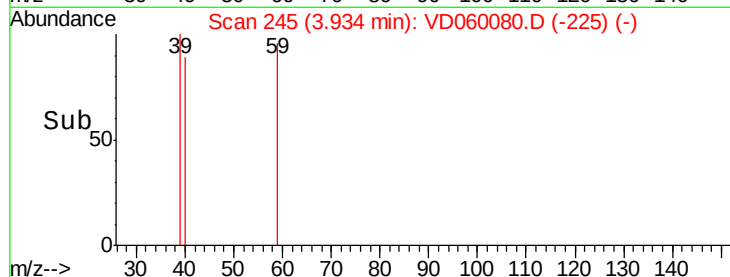
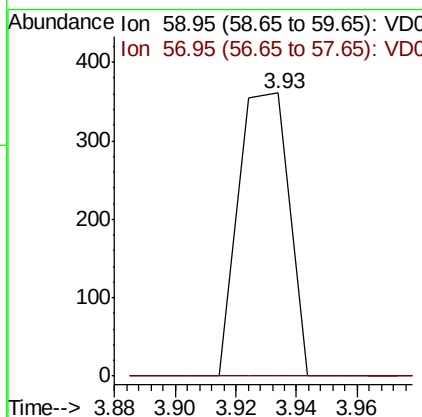
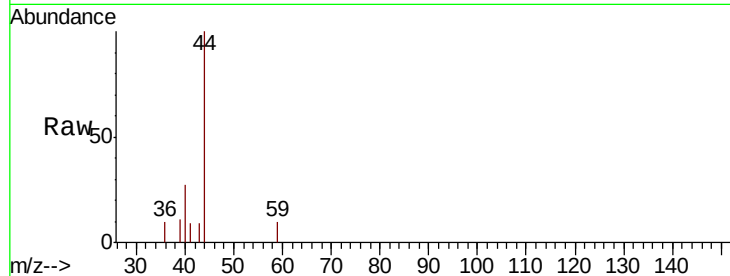




#11
Tert butyl alcohol
Concen: 1.071 ug/l
RT: 3.93 min Scan# 245
Delta R.T. -0.00 min
Lab File: VD060080.D
Acq: 24 Sep 2018 14:19

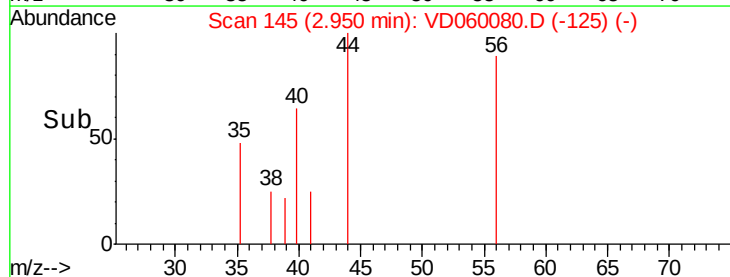
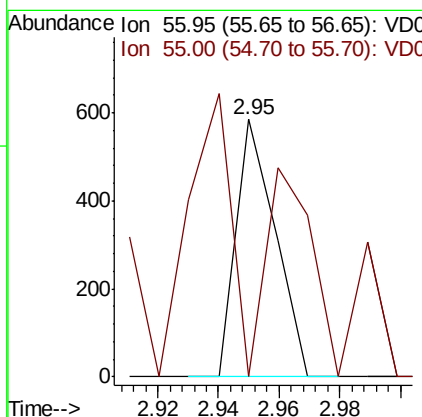
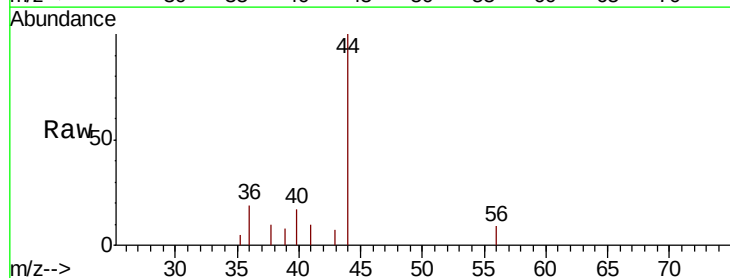
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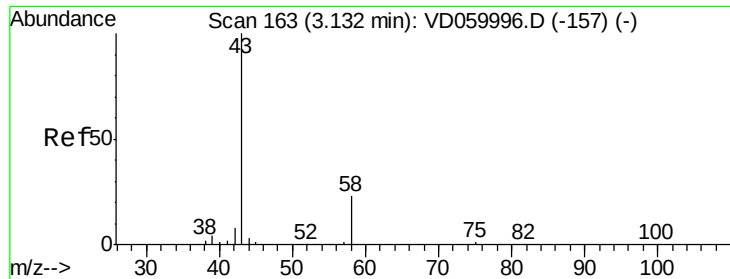
Tgt Ion: 59 Resp: 422
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#13
Acrolein
Concen: 2.164 ug/l
RT: 2.95 min Scan# 145
Delta R.T. -0.00 min
Lab File: VD060080.D
Acq: 24 Sep 2018 14:19

Tgt Ion: 56 Resp: 528
Ion Ratio Lower Upper
56 100
55 0.0 58.3 87.5#





#16

Acetone

Concen: 81.350 ug/l

RT: 3.13 min Scan# 163

Delta R.T. -0.00 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

Instrument :

MSVOA_D

ClientSampleId :

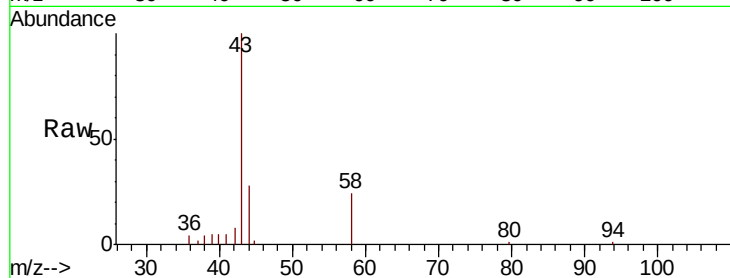
RA-091918-N-FL-056RE

Tgt Ion: 43 Resp: 76692

Ion Ratio Lower Upper

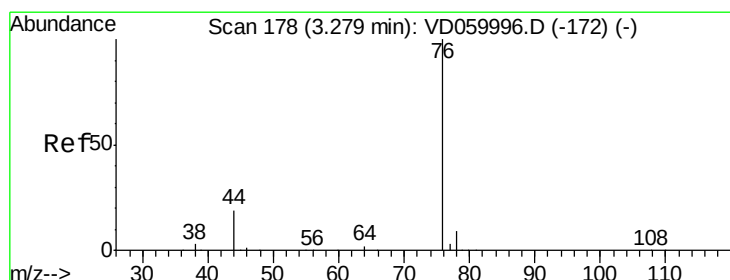
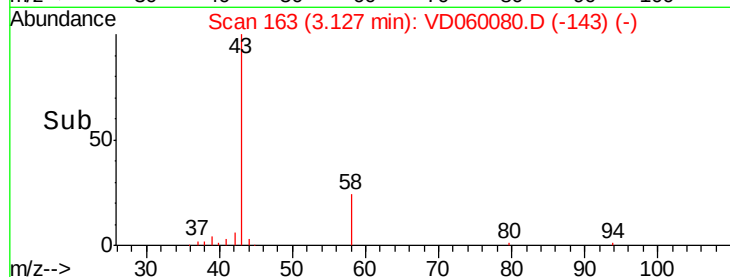
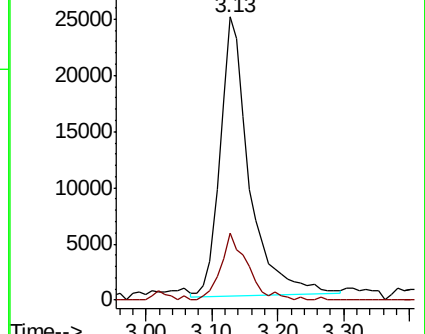
43 100

58 23.8 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 1.341 ug/l

RT: 3.28 min Scan# 179

Delta R.T. 0.01 min

Lab File: VD060080.D

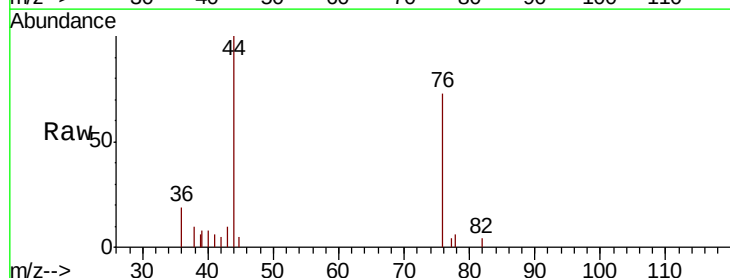
Acq: 24 Sep 2018 14:19

Tgt Ion: 76 Resp: 11906

Ion Ratio Lower Upper

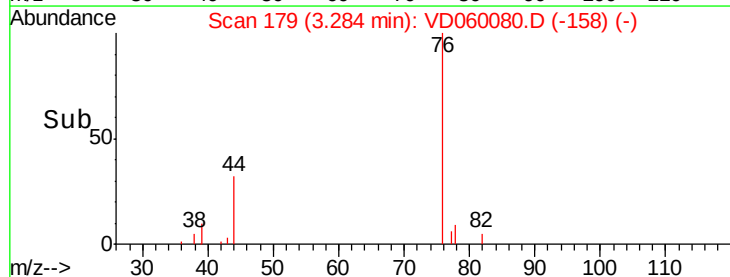
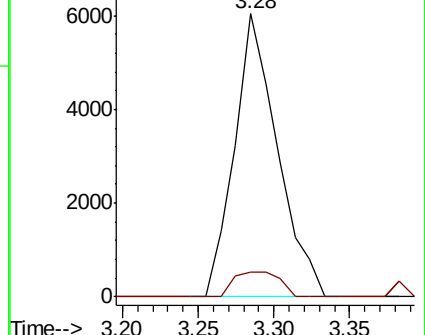
76 100

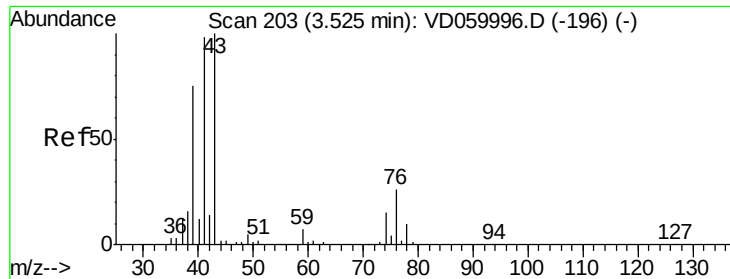
78 8.7 7.0 10.4



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

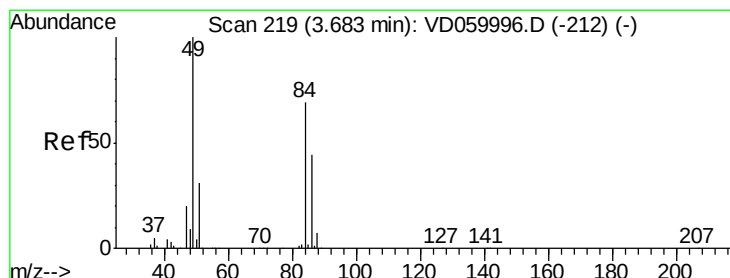
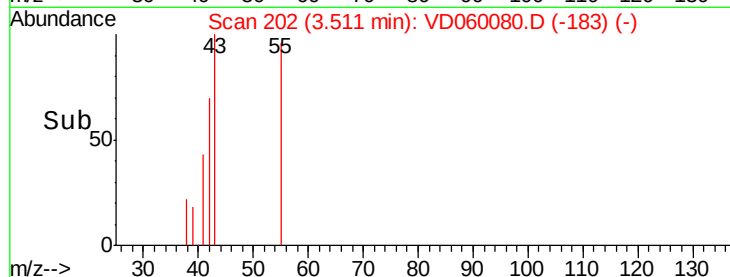
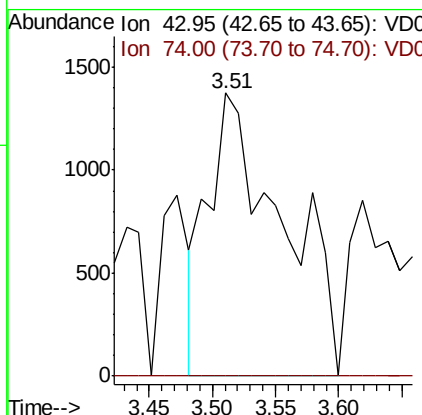
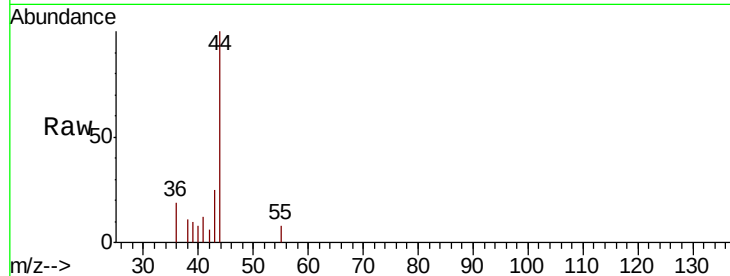




#18
Methyl Acetate
Concen: 2.936 ug/l
RT: 3.51 min Scan# 202
Delta R.T. -0.01 min
Lab File: VD060080.D
Acq: 24 Sep 2018 14:19

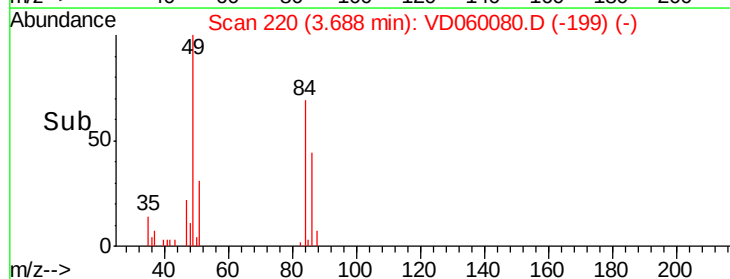
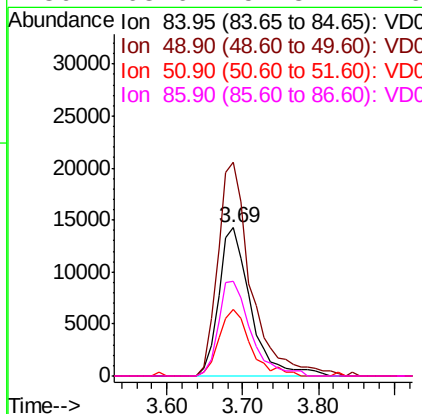
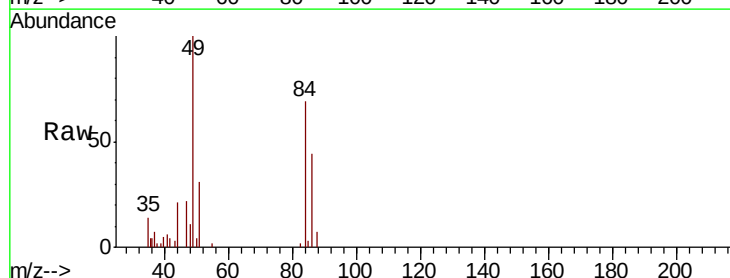
Instrument :
MSVOA_D
ClientSampleId :
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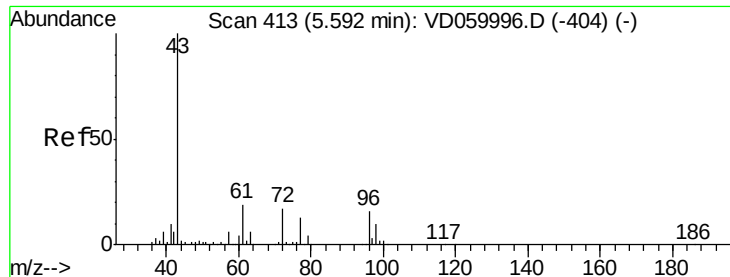
Tgt Ion: 43 Resp: 5629
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.69 min Scan# 220
Delta R.T. 0.01 min
Lab File: VD060080.D
Acq: 24 Sep 2018 14:19

Tgt Ion: 84 Resp: 41829
Ion Ratio Lower Upper
84 100
49 144.0 116.6 175.0
51 44.6 35.9 53.9
86 63.6 51.8 77.6





#25

2-Butanone

Concen: 16.482 ug/l

RT: 5.59 min Scan# 413

Delta R.T. -0.00 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

Instrument :

MSVOA_D

ClientSampleId :

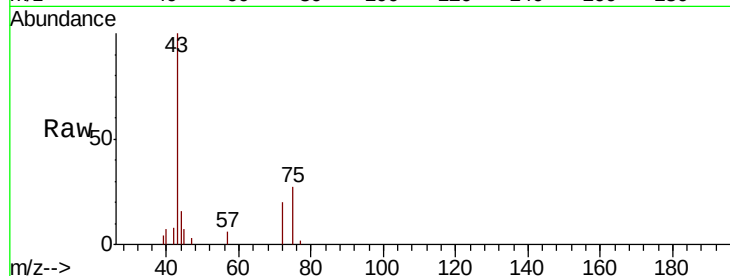
RA-091918-N-FL-056RE

Tgt Ion: 43 Resp: 41930

Ion Ratio Lower Upper

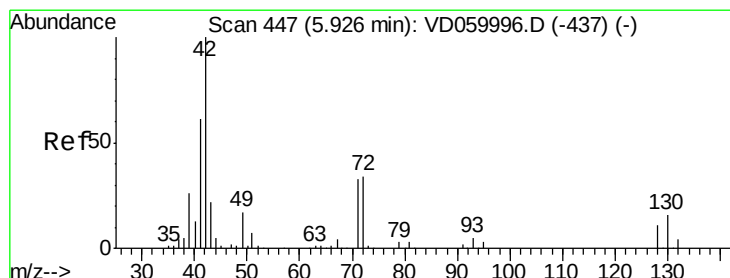
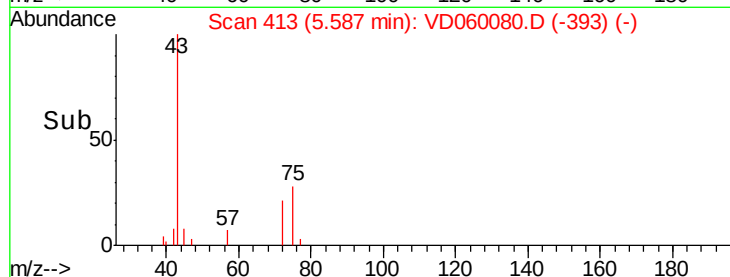
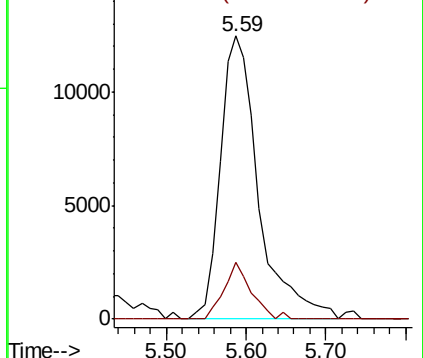
43 100

72 20.3 13.6 20.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 2.620 ug/l

RT: 5.92 min Scan# 447

Delta R.T. -0.00 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

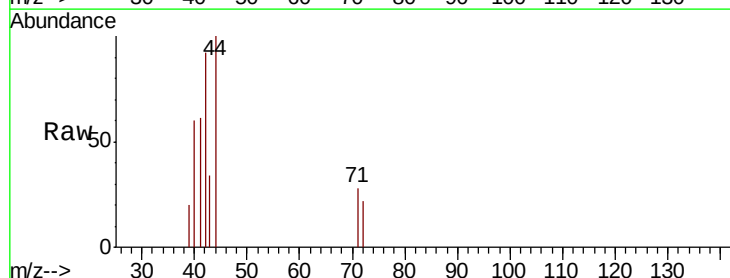
Tgt Ion: 42 Resp: 3575

Ion Ratio Lower Upper

42 100

72 18.2 26.9 40.3#

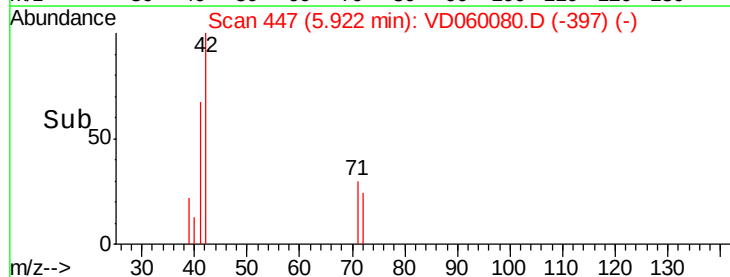
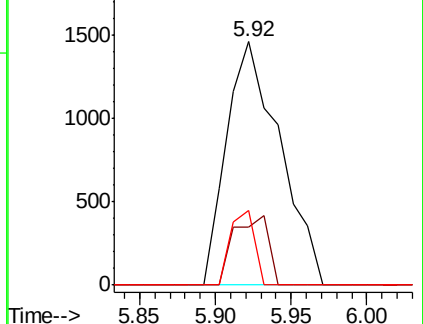
71 13.5 26.2 39.4#

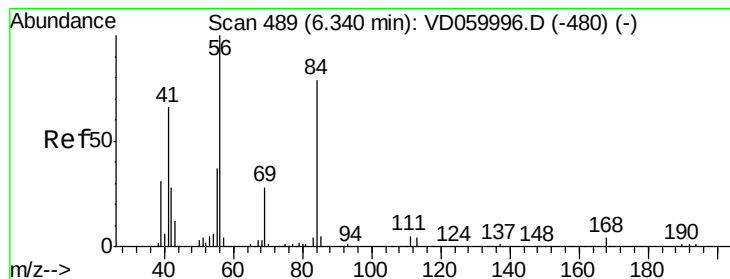


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.041 ug/l

RT: 6.36 min Scan# 492

Delta R.T. 0.02 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

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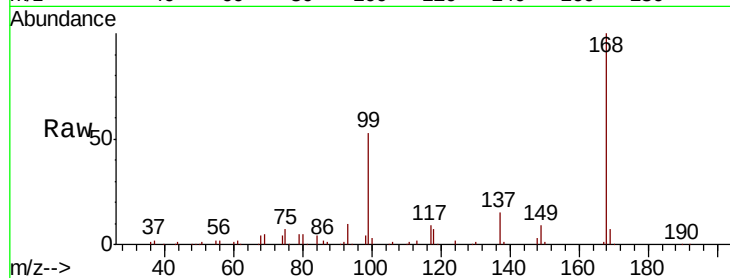
Tgt Ion: 56 Resp: 11284

Ion Ratio Lower Upper

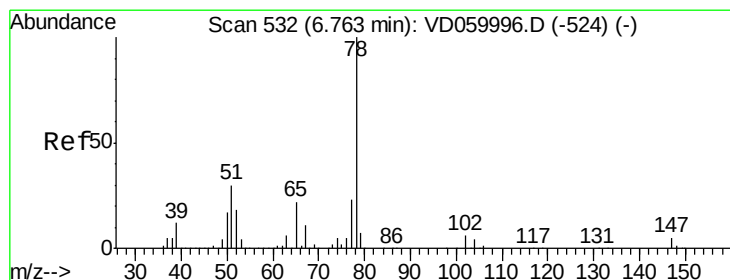
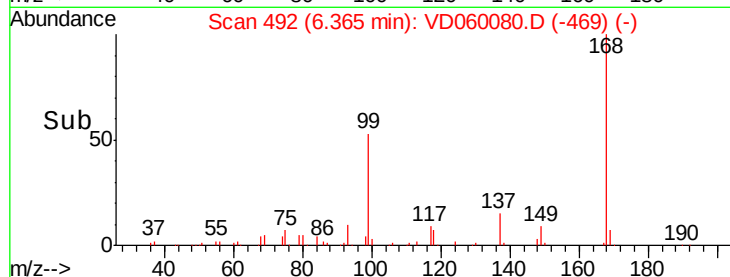
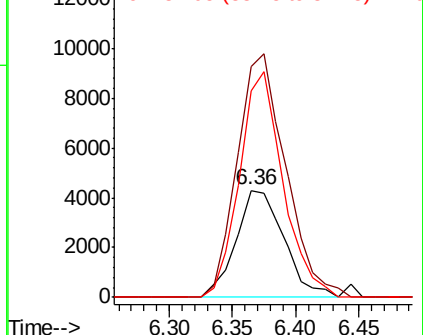
56 100

69 215.9 22.7 34.1#

84 192.8 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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.75 min Scan# 531

Delta R.T. -0.01 min

Lab File: VD060080.D

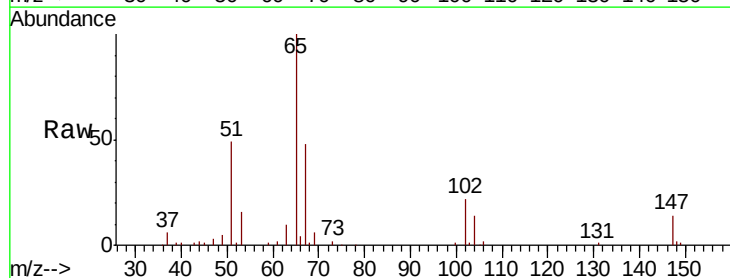
Acq: 24 Sep 2018 14:19

Tgt Ion: 65 Resp: 221621

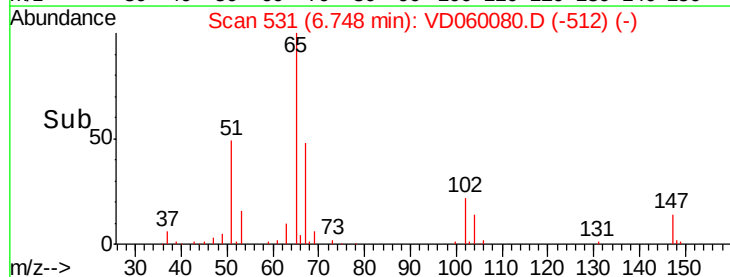
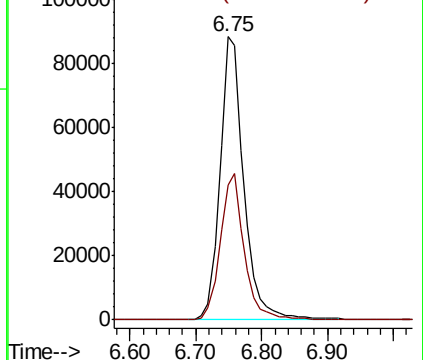
Ion Ratio Lower Upper

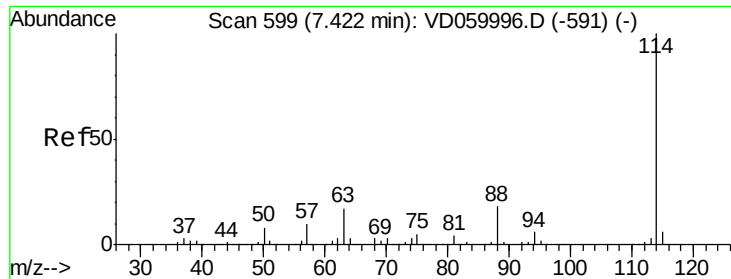
65 100

67 47.7 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

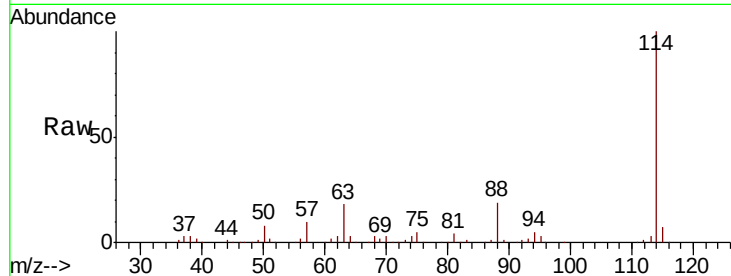




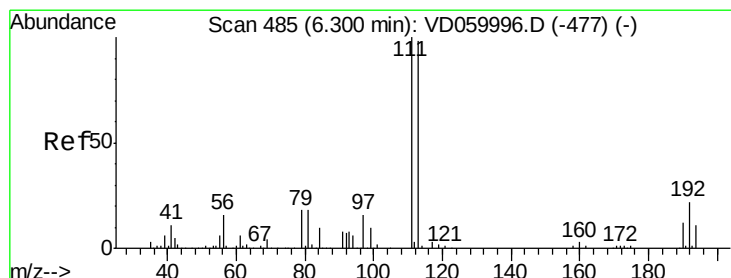
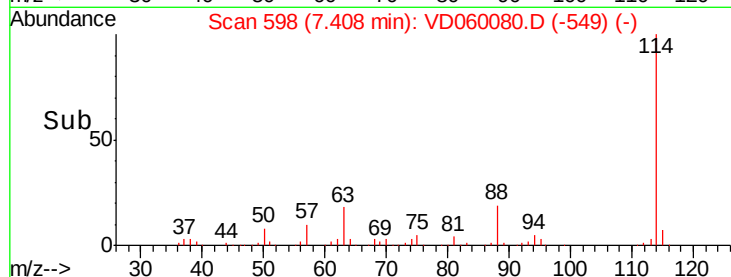
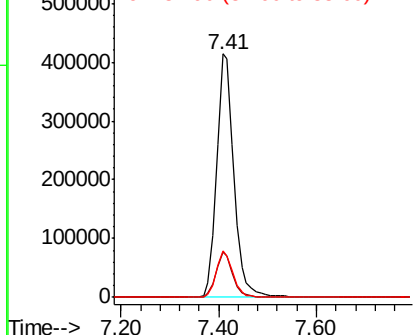
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.41 min Scan# 598
 Delta R.T. -0.01 min
 Lab File: VD060080.D
 Acq: 24 Sep 2018 14:19

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Tgt Ion:114 Resp: 1020267
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 34.4
 88 18.9 0.0 35.8

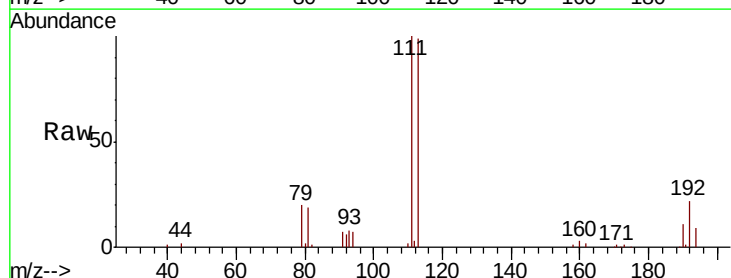


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

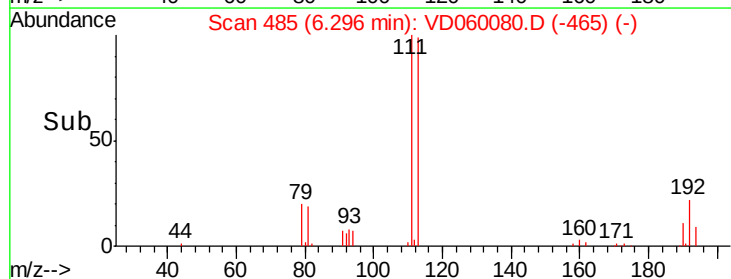
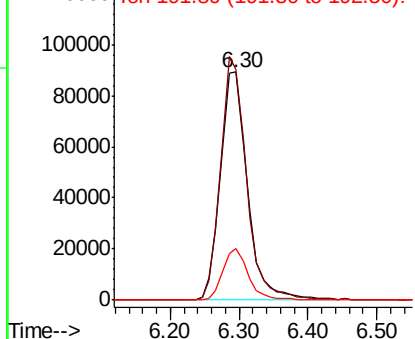


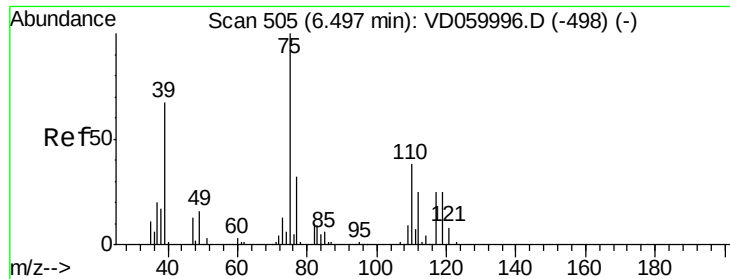
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.30 min Scan# 485
 Delta R.T. -0.00 min
 Lab File: VD060080.D
 Acq: 24 Sep 2018 14:19

Tgt Ion:113 Resp: 244054
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.3 121.9
 192 22.7 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

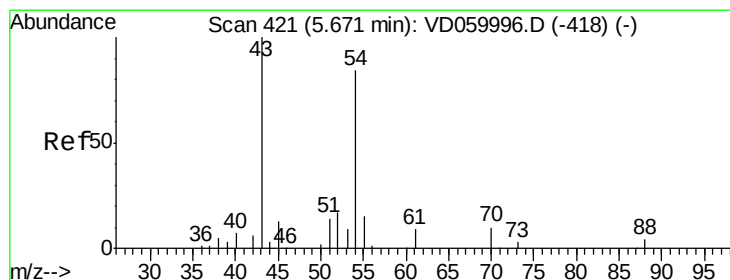
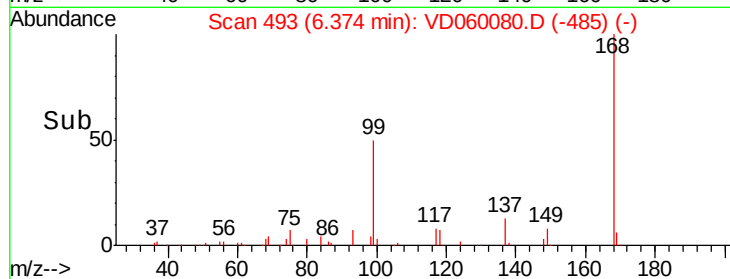
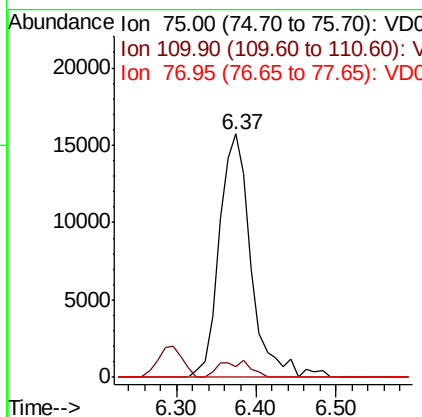
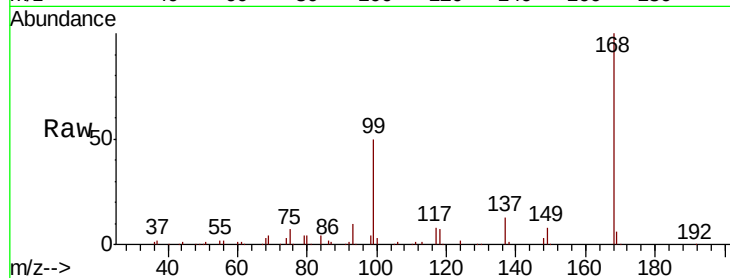




#36
 1,1-Dichloropropene
 Concen: 4.348 ug/l
 RT: 6.37 min Scan# 493
 Delta R.T. -0.12 min
 Lab File: VD060080.D
 Acq: 24 Sep 2018 14:19

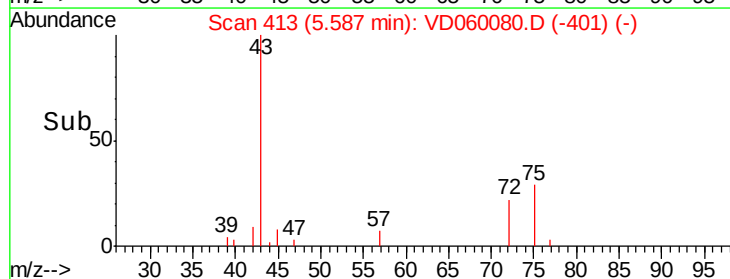
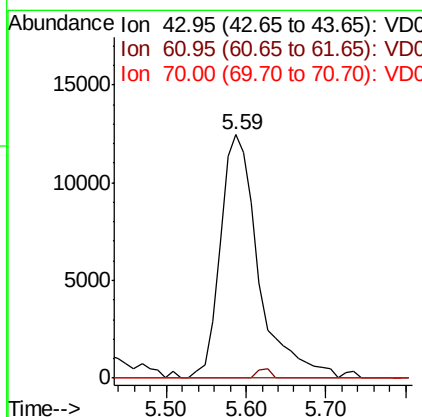
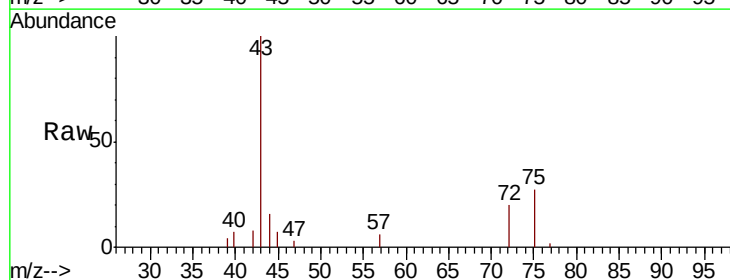
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-N-FL-056RE

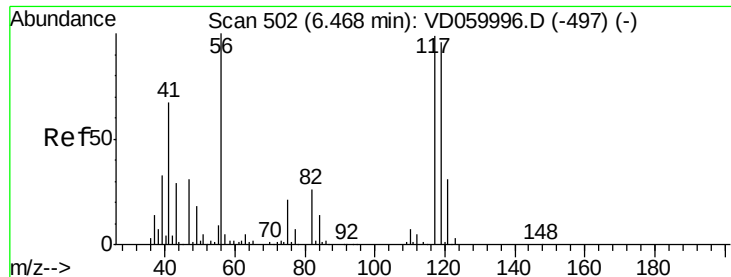
Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.4	18.9	56.9#
77	0.0	25.3	37.9#



#37
 Ethyl Acetate
 Concen: 6.016 ug/l
 RT: 5.59 min Scan# 413
 Delta R.T. -0.08 min
 Lab File: VD060080.D
 Acq: 24 Sep 2018 14:19

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.2	15.2#
70	0.0	6.1	9.1#

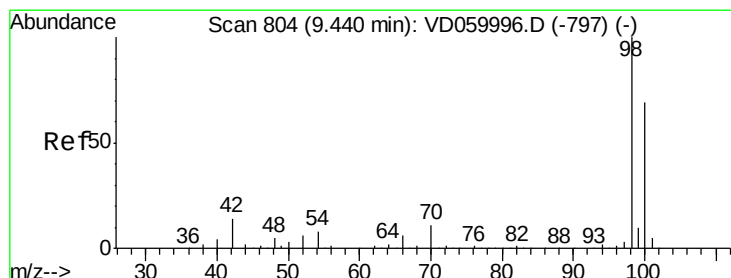
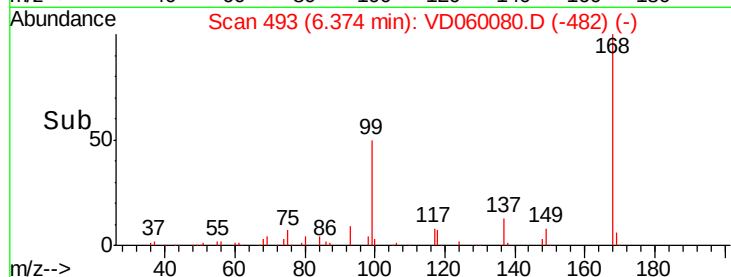
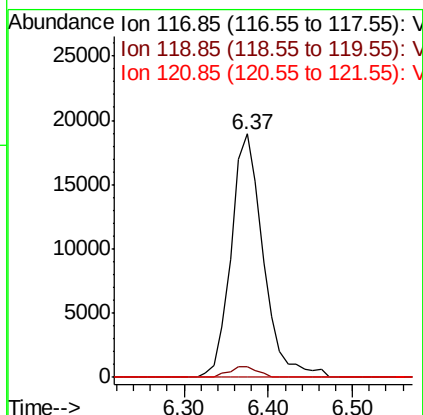
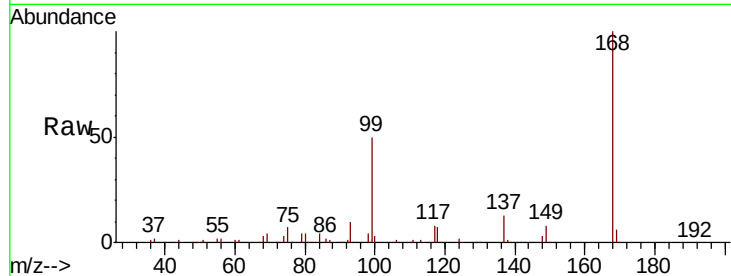




#38
Carbon Tetrachloride
Concen: 5.299 ug/l
RT: 6.37 min Scan# 493
Delta R.T. -0.09 min
Lab File: VD060080.D
Acq: 24 Sep 2018 14:19

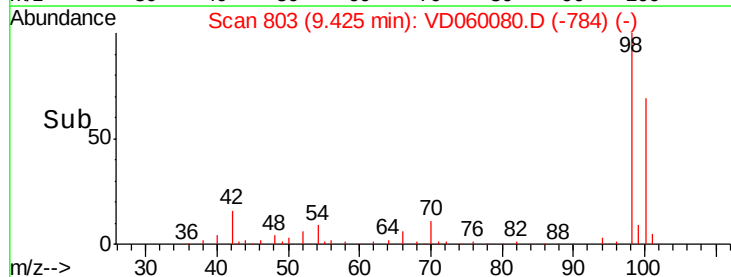
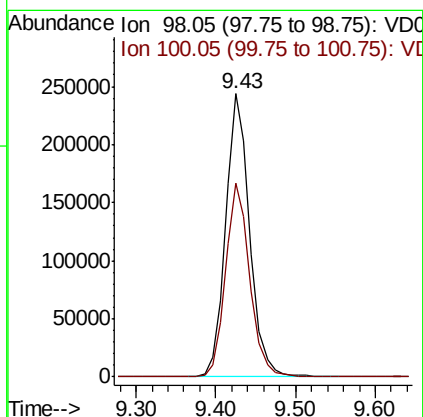
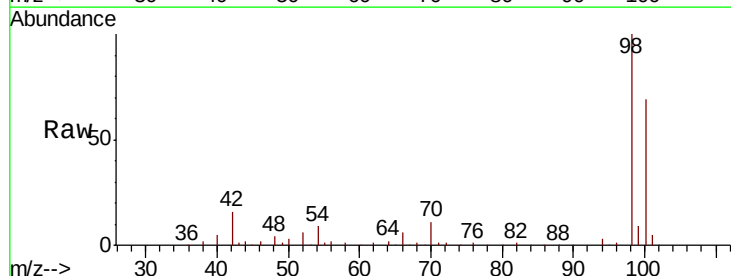
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-N-FL-056RE

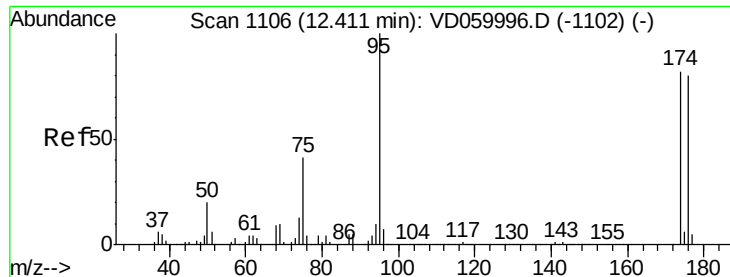
Tgt Ion: 117 Resp: 50131
Ion Ratio Lower Upper
117 100
119 4.6 76.7 115.1#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.43 min Scan# 803
Delta R.T. -0.01 min
Lab File: VD060080.D
Acq: 24 Sep 2018 14:19

Tgt Ion: 98 Resp: 515755
Ion Ratio Lower Upper
98 100
100 68.7 55.8 83.6





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.41 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-N-FL-056RE

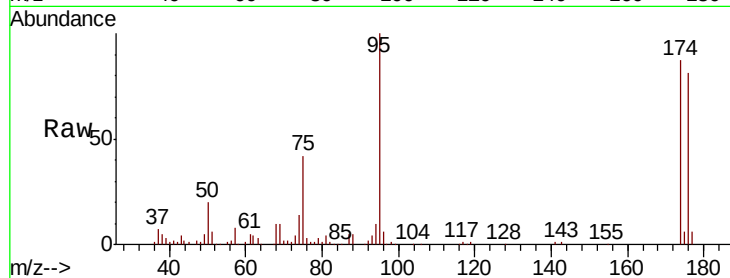
Tgt Ion: 95 Resp: 189262

Ion Ratio Lower Upper

95 100

174 86.6 0.0 165.0

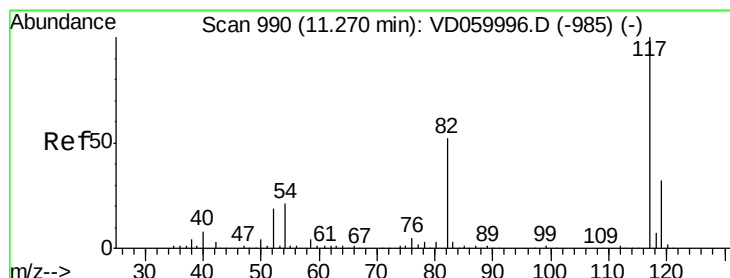
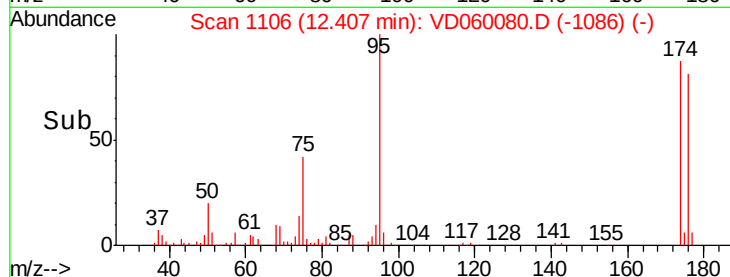
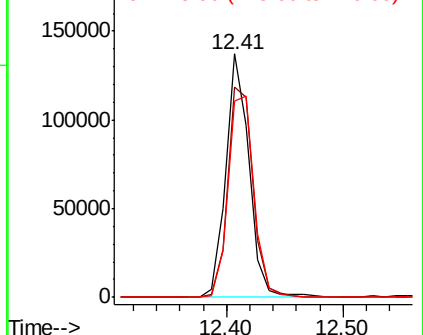
176 80.7 0.0 160.2



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: 11.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

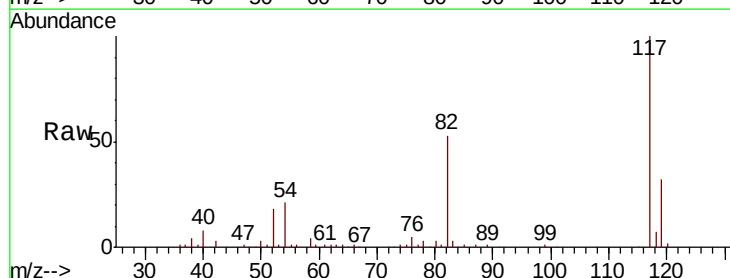
Tgt Ion: 117 Resp: 770041

Ion Ratio Lower Upper

117 100

82 52.7 41.7 62.5

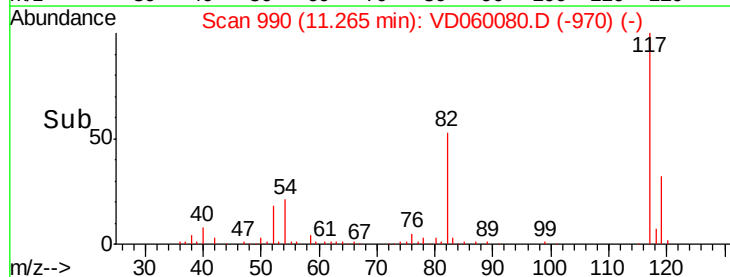
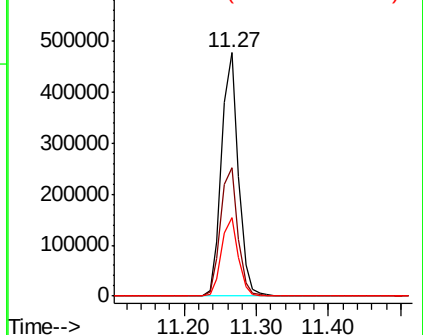
119 32.3 26.0 39.0

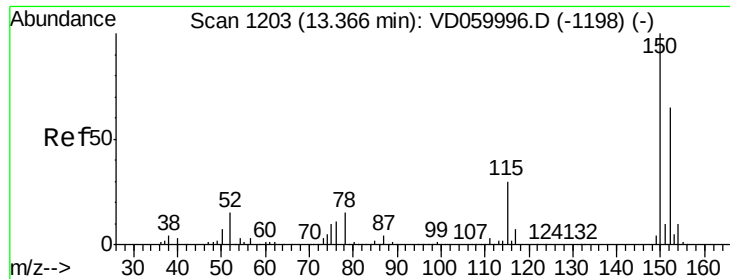


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.36 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-N-FL-056RE

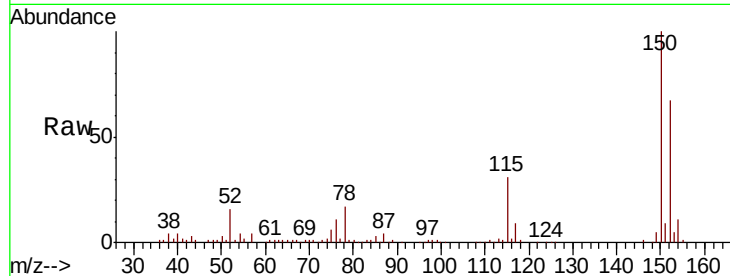
Tgt Ion:152 Resp: 248794

Ion Ratio Lower Upper

152 100

115 46.2 24.6 73.8

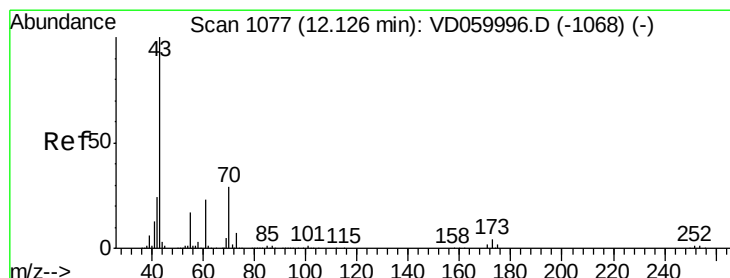
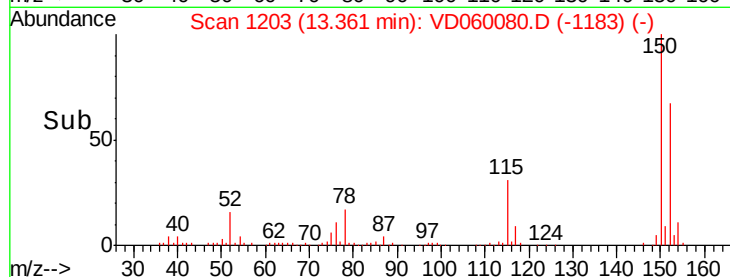
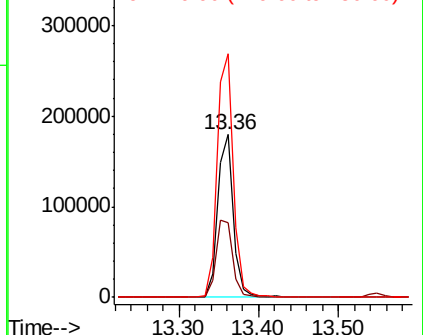
150 149.6 0.0 313.4



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-ethyl acetate

Concen: 2.086 ug/l

RT: 12.07 min Scan# 1072

Delta R.T. -0.05 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

Tgt Ion: 43 Resp: 13483

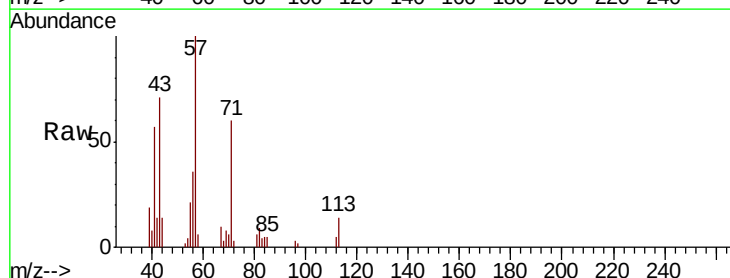
Ion Ratio Lower Upper

43 100

70 8.4 22.9 34.3#

55 29.7 14.0 21.0#

61 0.0 18.7 28.1#

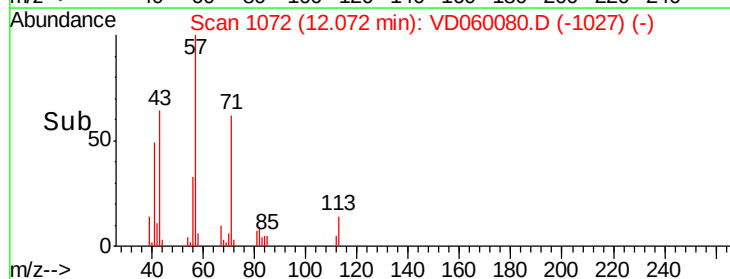
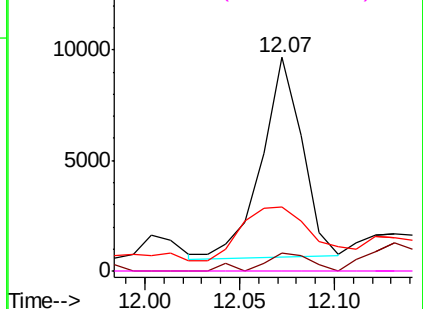


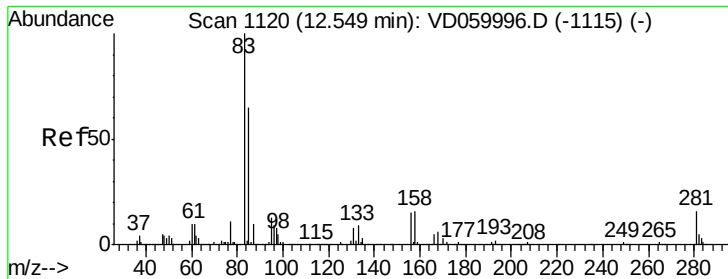
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 1.181 ug/l

RT: 12.56 min Scan# 1122

Delta R.T. 0.02 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

Instrument :

MSVOA_D

ClientSampleId :

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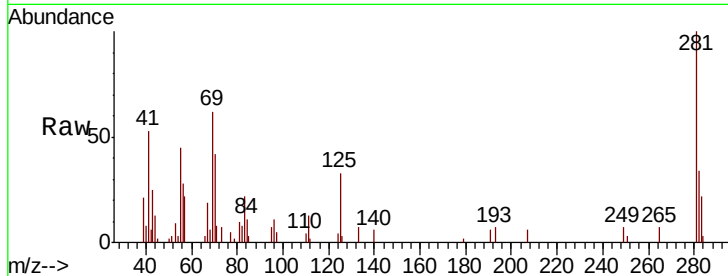
Tgt Ion: 83 Resp: 4370

Ion Ratio Lower Upper

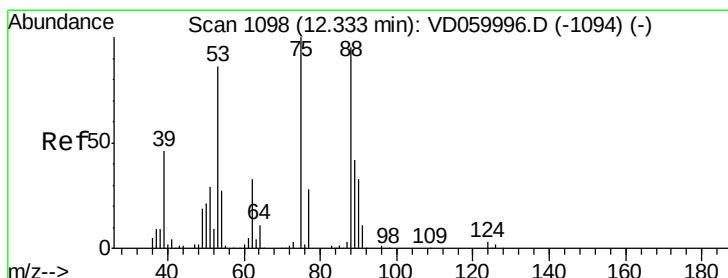
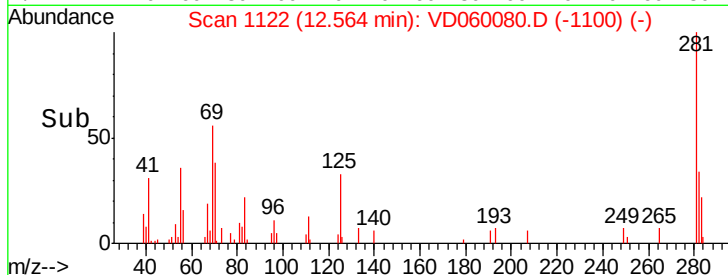
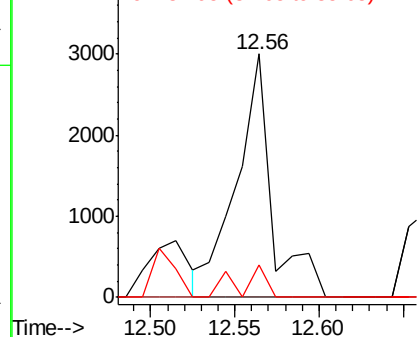
83 100

131 0.0 4.1 12.3#

85 13.2 32.4 97.2#



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 67.732 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.07 min

Lab File: VD060080.D

Acq: 24 Sep 2018 14:19

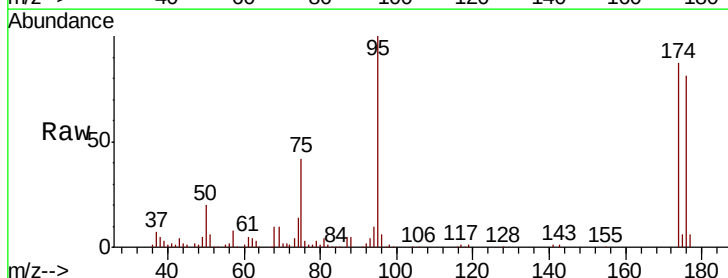
Tgt Ion: 75 Resp: 77690

Ion Ratio Lower Upper

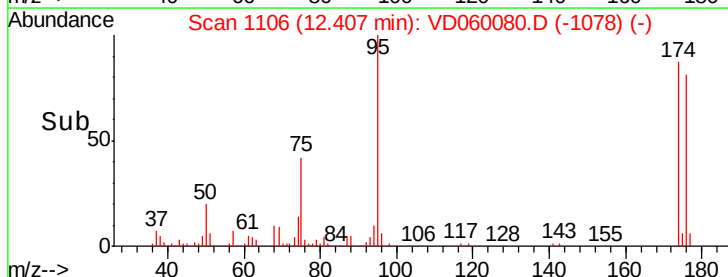
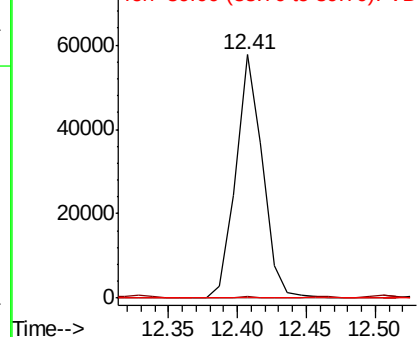
75 100

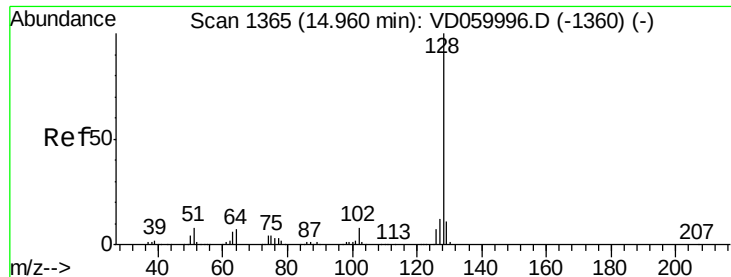
53 0.9 68.4 102.6#

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





#95
Naphthalene
Concen: 1.320 ug/l
RT: 14.96 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VD060080.D
Acq: 24 Sep 2018 14:19

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-N-FL-056RE

Tgt Ion:128 Resp: 11873
Ion Ratio Lower Upper
128 100
127 16.7 9.7 14.5#
129 17.3 8.9 13.3#

