

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060058.D
 Acq On : 20 Sep 2018 20:01
 Operator : VA/AP
 Sample : J5017-06
 Misc : 5.05/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-060

Quant Time: Sep 21 01:01:26 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	6.38	168	172937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	258823	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	236353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	119756	50.00	ug/l	0.00

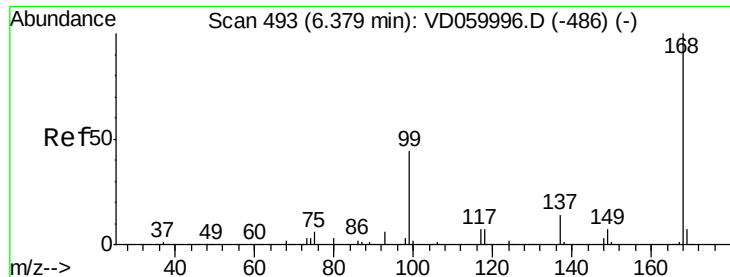
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.76	65	93357	69.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	138.44%	
35) Dibromofluoromethane	6.30	113	96694	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
50) Toluene-d8	9.43	98	217212	38.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.52%	
62) 4-Bromofluorobenzene	12.42	95	94457	44.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.24%	

Target Compounds

						Qvalue
5) Bromomethane	2.15	94	888	5.79	ug/l #	1
13) Acrolein	2.94	56	221	3.28	ug/l #	13
16) Acetone	3.14	43	58230	223.64	ug/l	99
18) Methyl Acetate	3.51	43	1502	2.84	ug/l #	64
20) Methylene Chloride	3.70	84	12992	Below	Cal	98
25) 2-Butanone	5.60	43	25000	35.58	ug/l #	90
29) Tetrahydrofuran	5.93	42	1197	3.18	ug/l #	41
36) 1,1-Dichloropropene	6.38	75	11368	4.42	ug/l #	40
37) Ethyl Acetate	5.60	43	25000	14.14	ug/l #	72
38) Carbon Tetrachloride	6.37	117	13124	5.47	ug/l #	12
41) Methacrylonitrile	5.94	41	945	1.02	ug/l #	56
51) 4-Methyl-2-Pentanone	9.33	43	1122	Below	Cal #	42
59) 2-Hexanone	10.48	43	818	Below	Cal #	30
81) trans-1,4-Dichloro-2-buten	12.42	75	40203	72.82	ug/l #	15
89) n-Butylbenzene	13.64	91	2904	Below	Cal	78
91) 1,2-Dichlorobenzene	13.66	146	517	Below	Cal #	66
95) Naphthalene	14.95	128	9193	2.12	ug/l #	56

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.38 min Scan# 494

Delta R.T. 0.00 min

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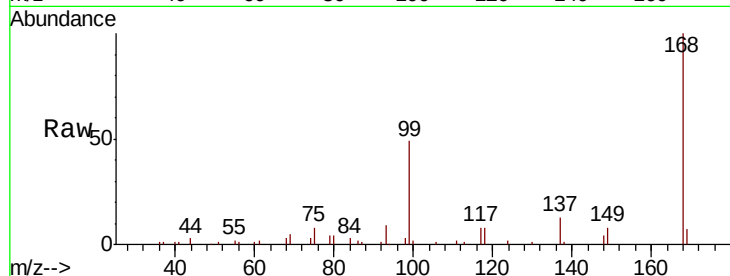
RA-091918-S-NW-060

Tot Ion:168 Resp: 172937

Ion Ratio Lower Upper

168 100

99 49.1 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

80000

60000

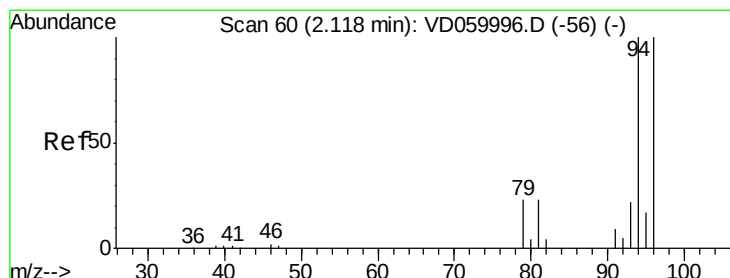
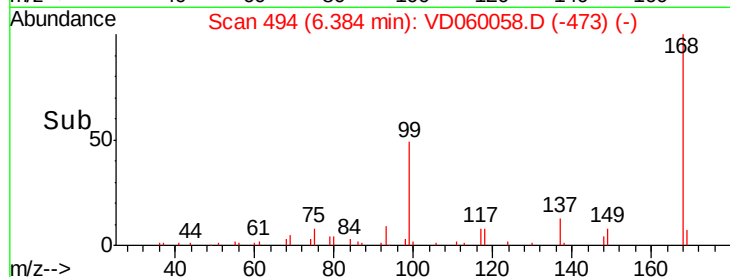
40000

20000

0

6.30 6.40 6.50

Time-->



#5

Bromomethane

Concen: 5.79 ug/l

RT: 2.15 min Scan# 64

Delta R.T. 0.03 min

Lab File: VD060058.D

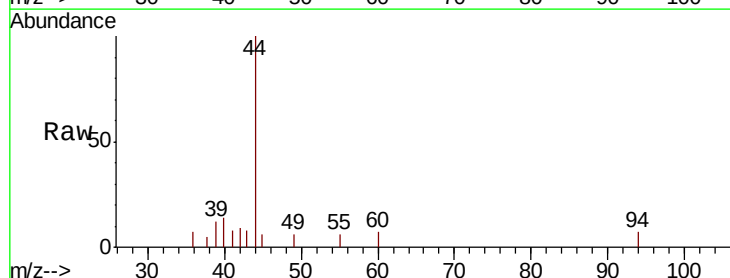
Acq: 20 Sep 2018 20:01

Tgt Ion: 94 Resp: 888

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

2.15

500

400

300

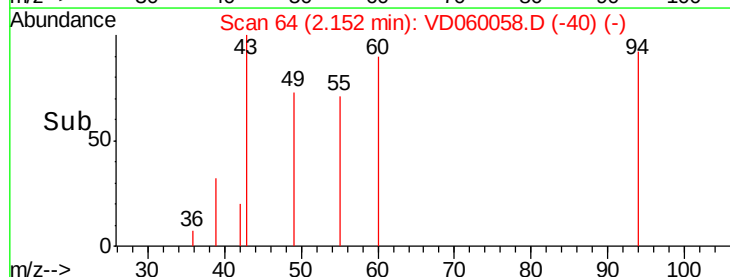
200

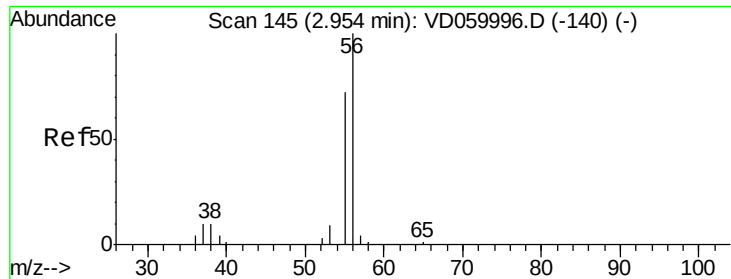
100

0

2.10 2.15 2.20

Time-->





#13

Acrolein

Concen: 3.28 ug/l

RT: 2.94 min Scan# 144

Delta R.T. -0.02 min

Lab File: VD060058.D

Acq: 20 Sep 2018 20:01

Instrument :

MSVOA_D

ClientSampleId :

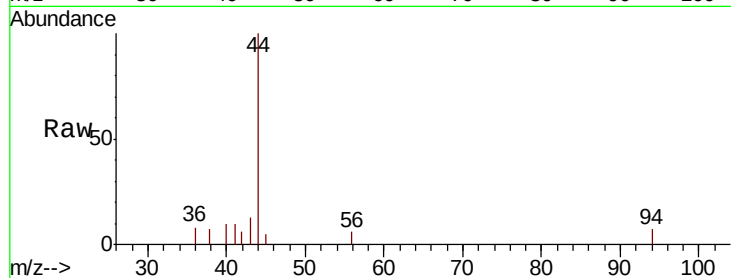
RA-091918-S-NW-060

Tot Ion: 56 Resp: 221

Ion Ratio Lower Upper

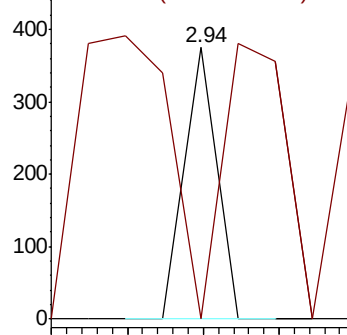
56 100

55 0.0 58.3 87.5#

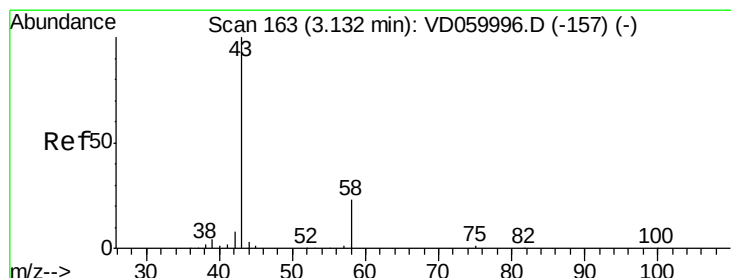
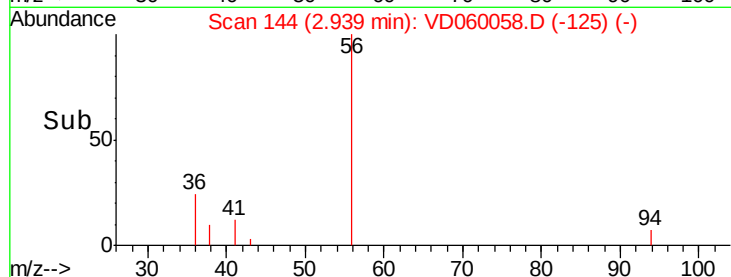


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time--> 2.90 2.92 2.94 2.96



#16

Acetone

Concen: 223.64 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD060058.D

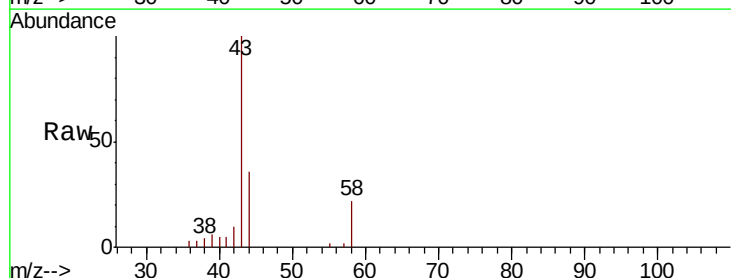
Acq: 20 Sep 2018 20:01

Tgt Ion: 43 Resp: 58230

Ion Ratio Lower Upper

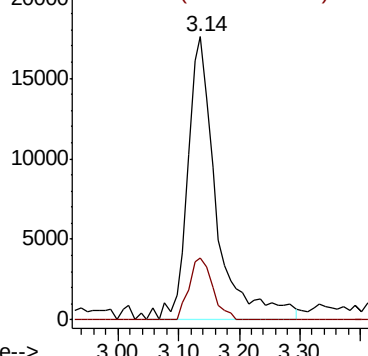
43 100

58 22.0 18.1 27.1

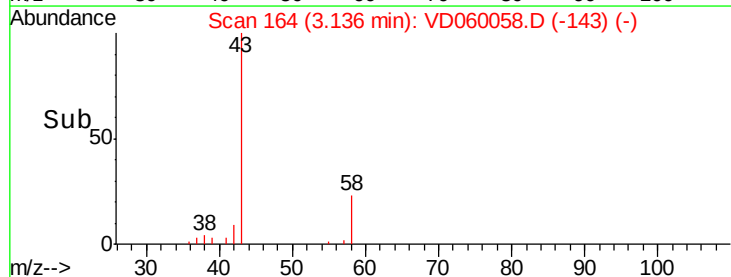


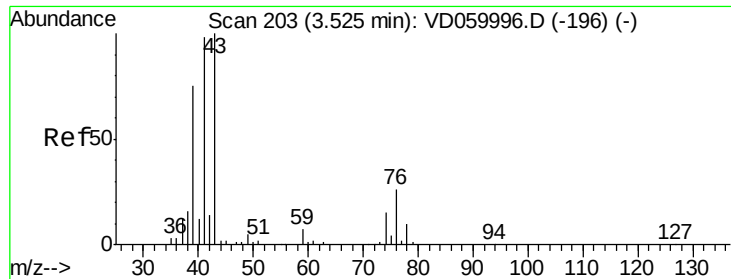
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time--> 3.00 3.10 3.20 3.30

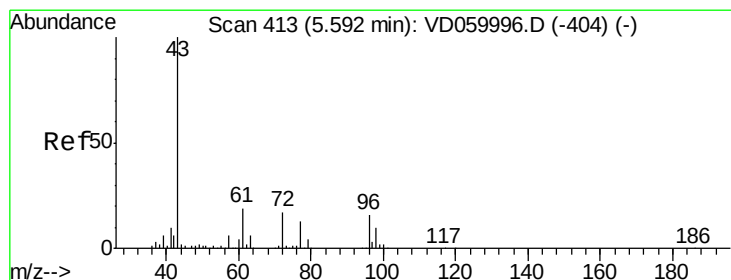
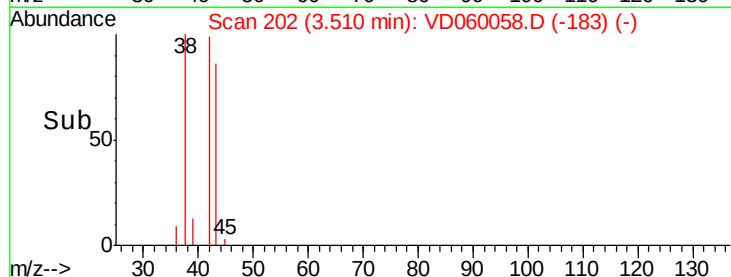
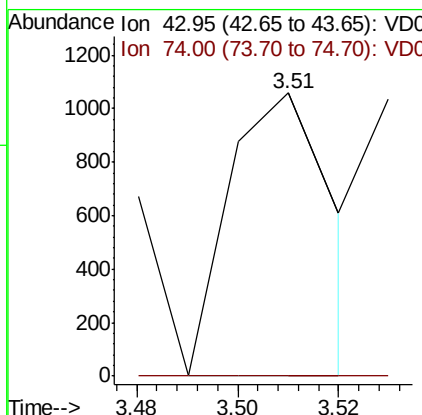
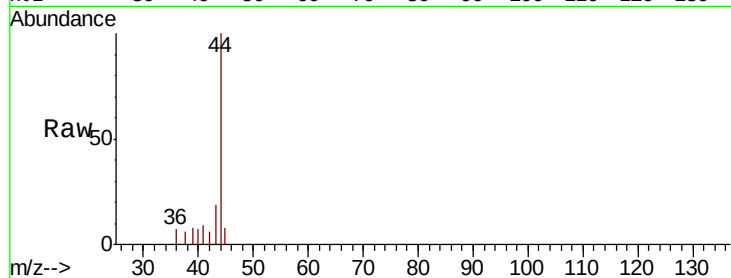




#18
Methyl Acetate
Concen: 2.84 ug/l
RT: 3.51 min Scan# 202
Delta R.T. -0.02 min
Lab File: VD060058.D
Acq: 20 Sep 2018 20:01

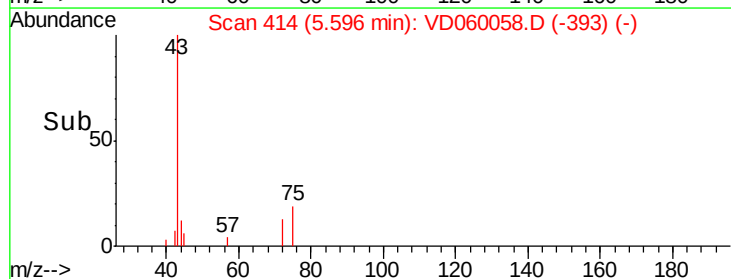
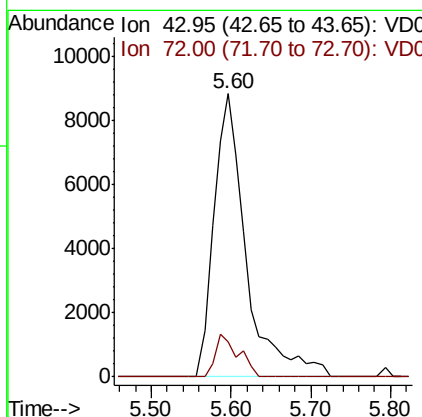
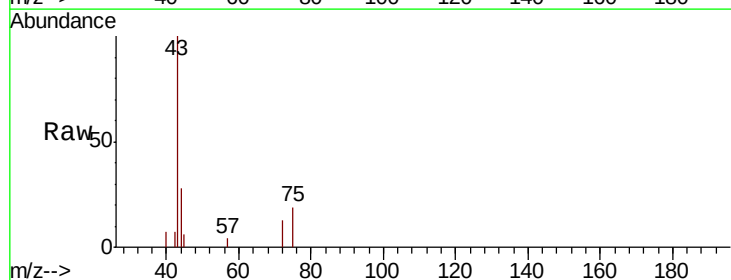
Instrument :
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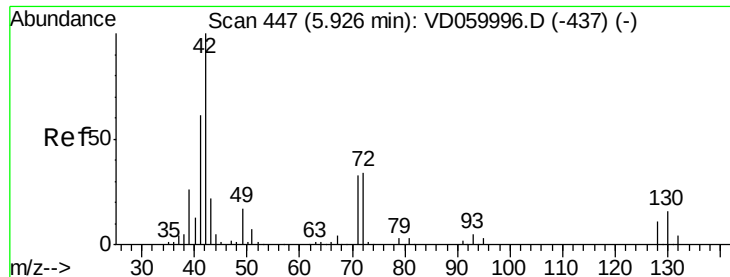
Tot Ion: 43 Resp: 1502
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#25
2-Butanone
Concen: 35.58 ug/l
RT: 5.60 min Scan# 414
Delta R.T. 0.01 min
Lab File: VD060058.D
Acq: 20 Sep 2018 20:01

Tgt Ion: 43 Resp: 25000
Ion Ratio Lower Upper
43 100
72 12.5 13.6 20.4#





#29

Tetrahydrofuran

Concen: 3.18 ug/l

RT: 5.93 min Scan# 448

Delta R.T. 0.00 min

Lab File: VD060058.D

Acq: 20 Sep 2018 20:01

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-060

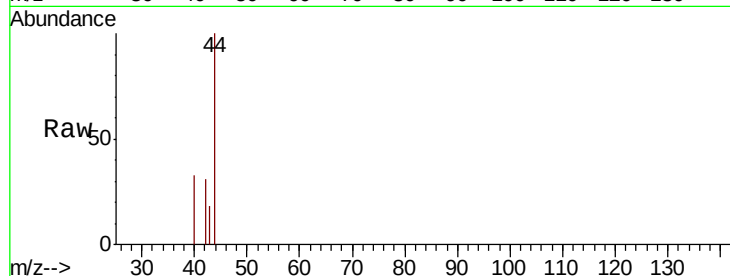
Tot Ion: 42 Resp: 1197

Ion Ratio Lower Upper

42 100

72 0.0 26.9 40.3#

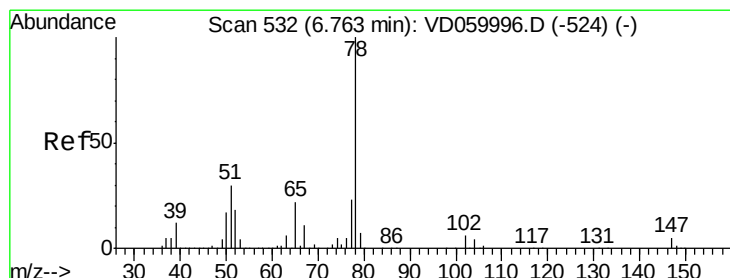
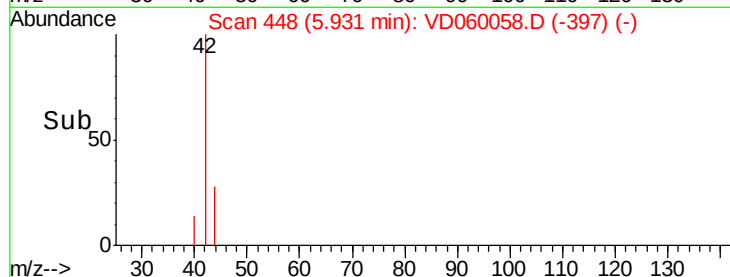
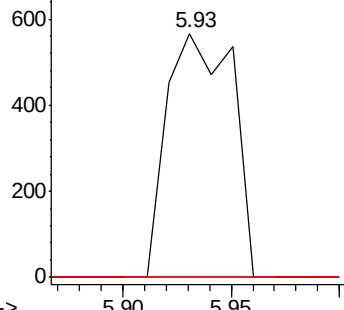
71 0.0 26.2 39.4#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.76 min Scan# 532

Delta R.T. -0.01 min

Lab File: VD060058.D

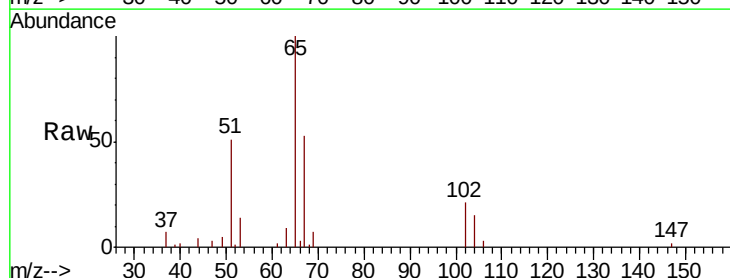
Acq: 20 Sep 2018 20:01

Tgt Ion: 65 Resp: 93357

Ion Ratio Lower Upper

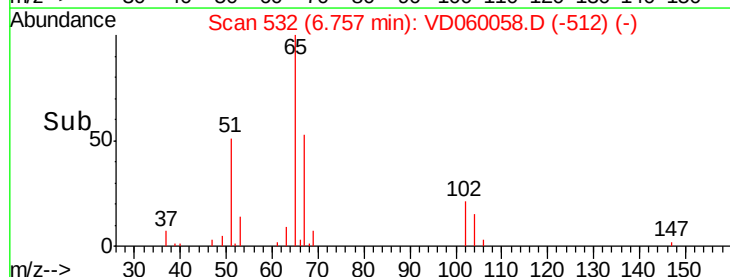
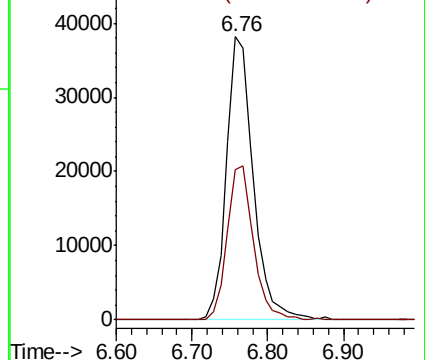
65 100

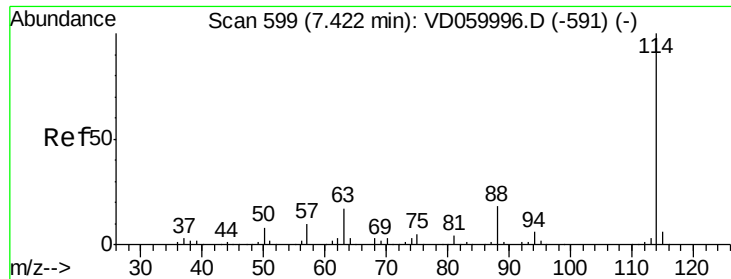
67 53.1 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

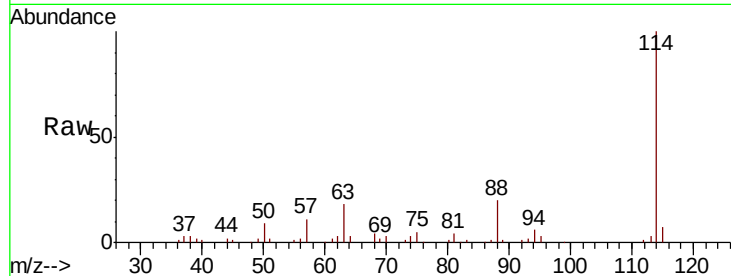




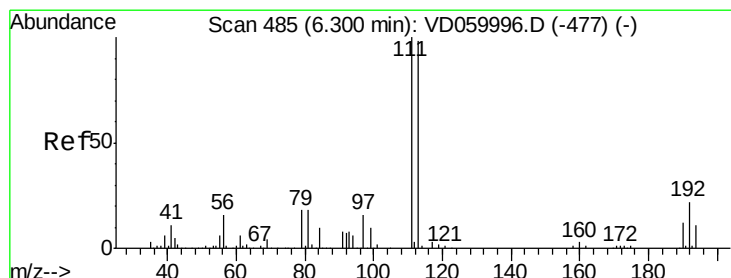
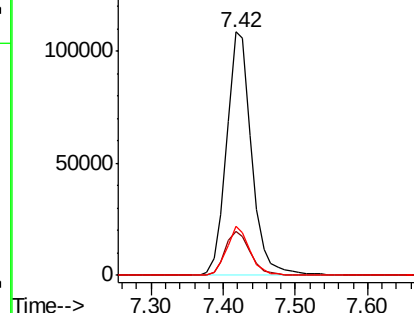
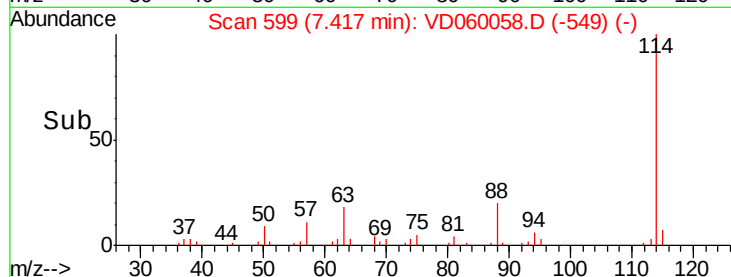
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. -0.01 min
 Lab File: VD060058.D
 Acq: 20 Sep 2018 20:01

Instrument :
 MSVOA_D
 ClientSampleId :
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Tot Ion:114 Resp: 258823
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 34.4
 88 20.2 0.0 35.8

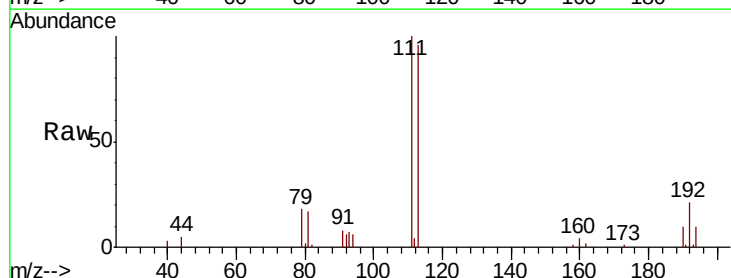


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

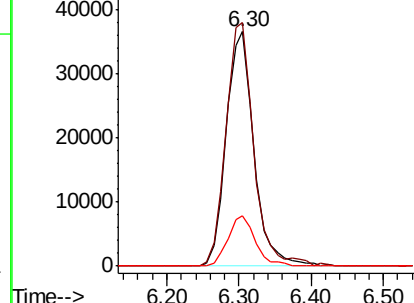
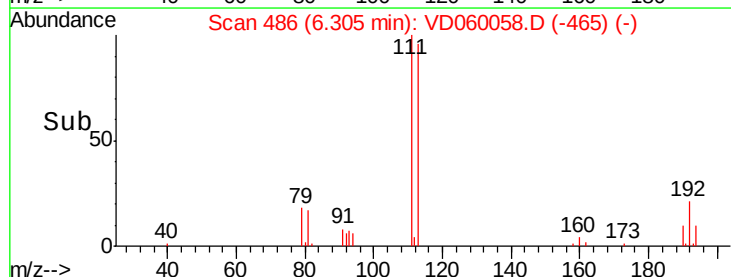


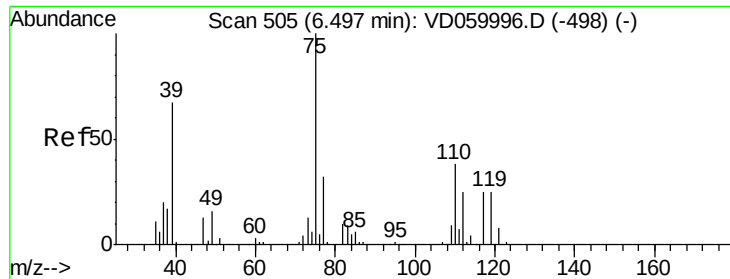
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.30 min Scan# 486
 Delta R.T. 0.00 min
 Lab File: VD060058.D
 Acq: 20 Sep 2018 20:01

Tgt Ion:113 Resp: 96694
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.3 121.9
 192 21.7 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

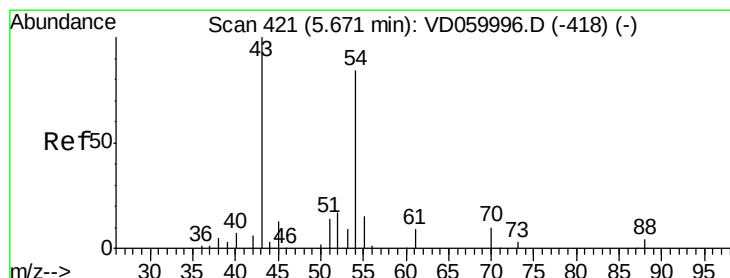
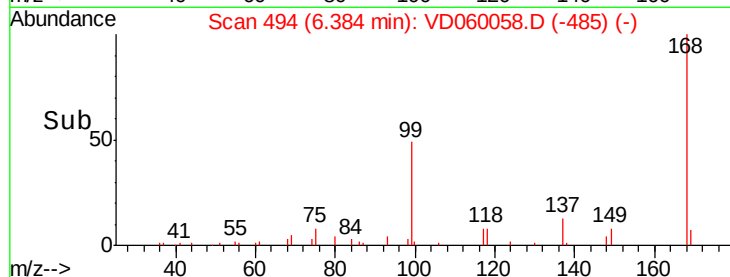
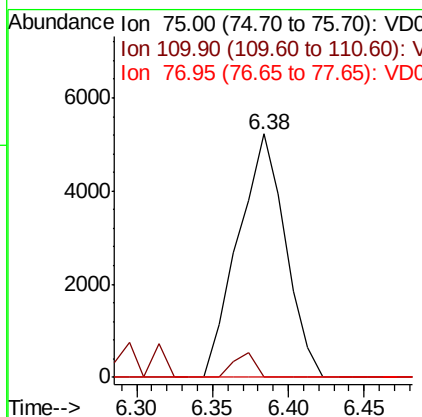
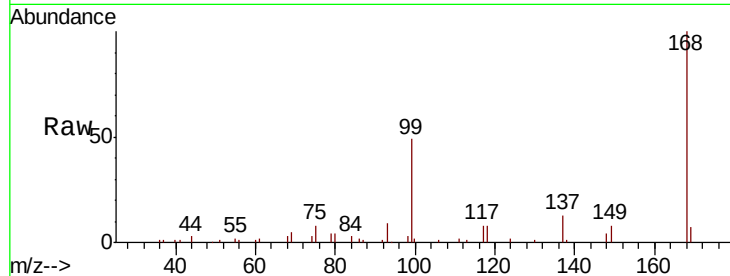




#36
 1,1-Dichloropropene
 Concen: 4.42 ug/l
 RT: 6.38 min Scan# 494
 Delta R.T. -0.11 min
 Lab File: VD060058.D
 Acq: 20 Sep 2018 20:01

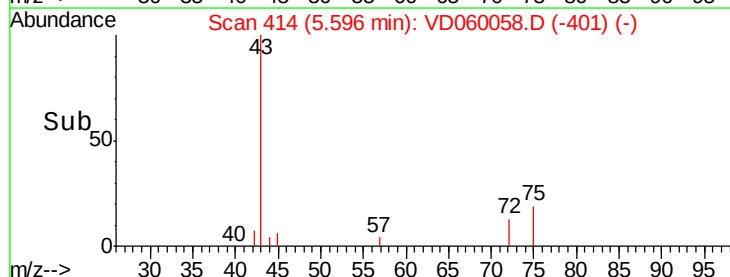
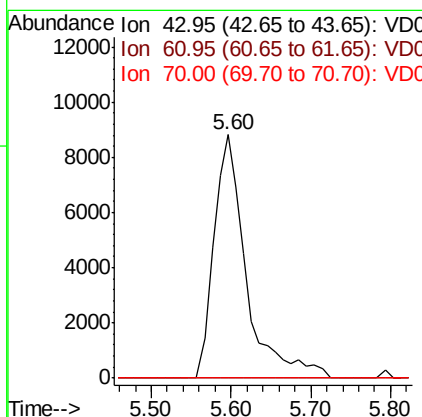
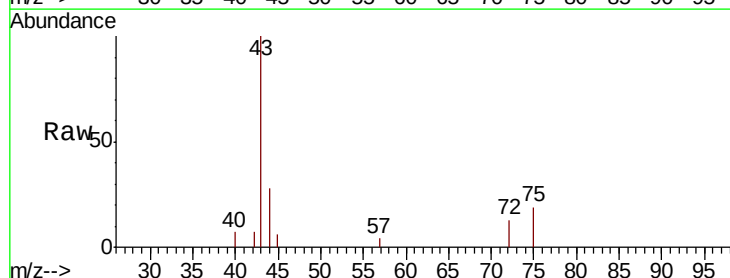
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-060

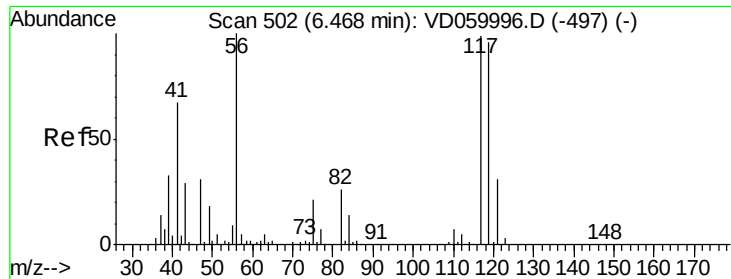
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.9	56.9#
77	0.0	25.3	37.9#



#37
 Ethyl Acetate
 Concen: 14.14 ug/l
 RT: 5.60 min Scan# 414
 Delta R.T. -0.07 min
 Lab File: VD060058.D
 Acq: 20 Sep 2018 20:01

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: 5.47 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.09 min

Lab File: VD060058.D

Acq: 20 Sep 2018 20:01

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-060

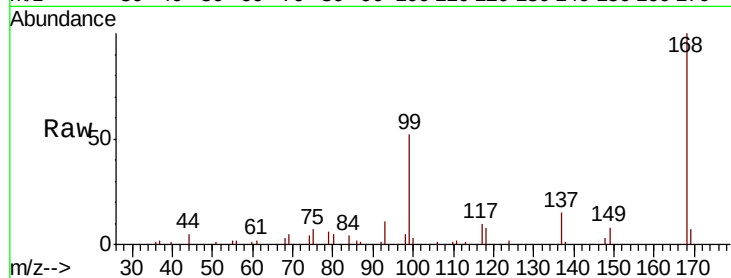
Tot Ion:117 Resp: 13124

Ion Ratio Lower Upper

117 100

119 0.0 76.7 115.1#

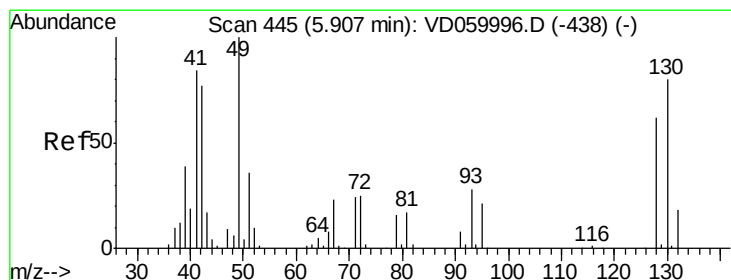
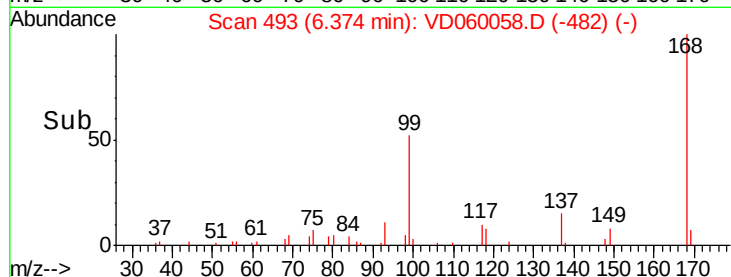
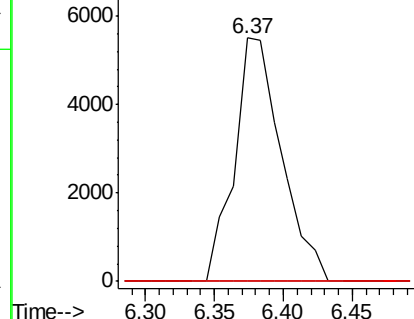
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 1.02 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.03 min

Lab File: VD060058.D

Acq: 20 Sep 2018 20:01

Tgt Ion: 41 Resp: 945

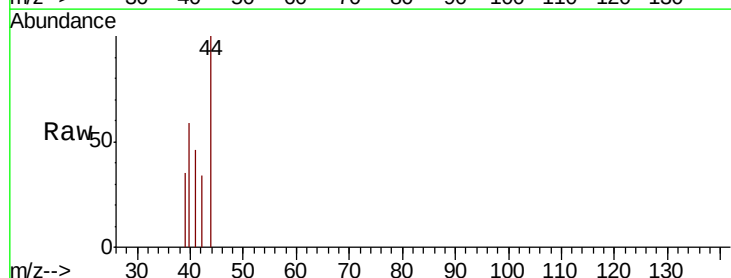
Ion Ratio Lower Upper

41 100

39 76.0 37.5 56.3#

67 0.0 21.5 32.3#

52 0.0 9.2 13.8#

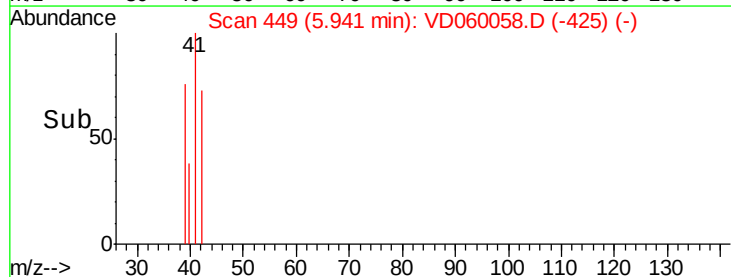
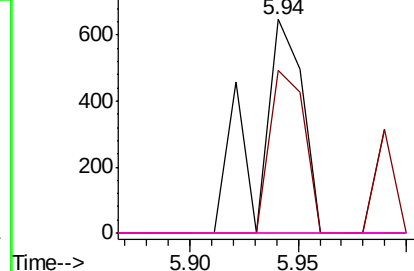


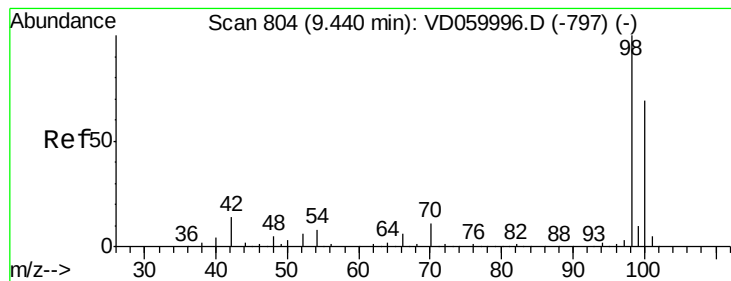
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.43 min Scan# 804

Delta R.T. -0.01 min

Lab File: VD060058.D

Acq: 20 Sep 2018 20:01

Instrument :

MSVOA_D

ClientSampleId :

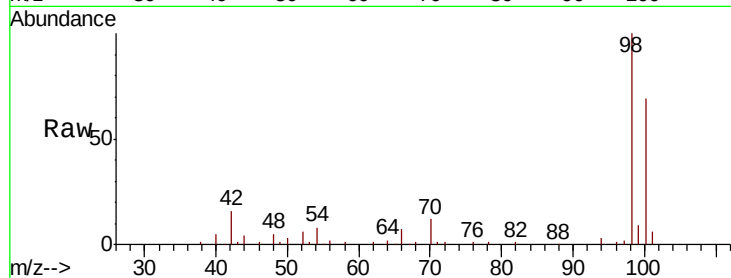
RA-091918-S-NW-060

Tot Ion: 98 Resp: 217212

Ion Ratio Lower Upper

98 100

100 69.0 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): VD0

Ion 100.05 (99.75 to 100.75): VD

9.43

100000

80000

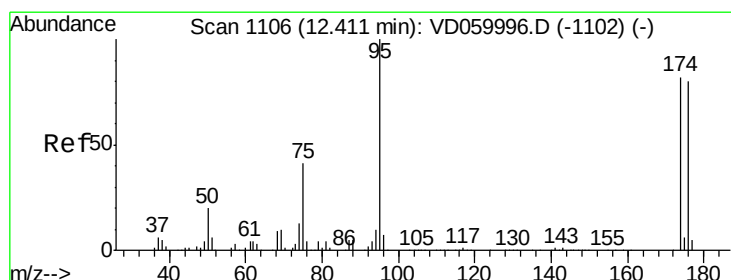
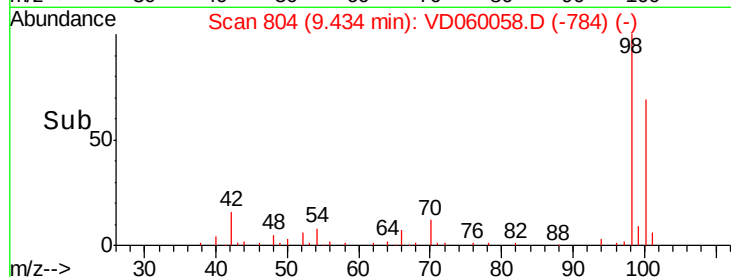
60000

40000

20000

0

Time--> 9.30 9.40 9.50 9.60



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD060058.D

Acq: 20 Sep 2018 20:01

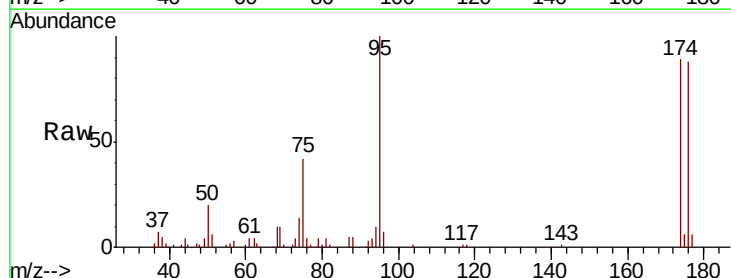
Tgt Ion: 95 Resp: 94457

Ion Ratio Lower Upper

95 100

174 89.3 0.0 165.0

176 88.3 0.0 160.2



Abundance Ion 95.00 (94.70 to 95.70): VD0

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

12.42

80000

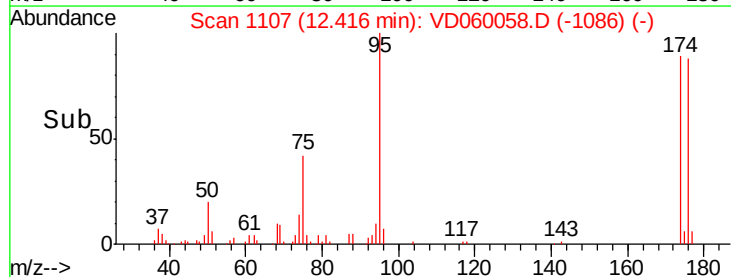
60000

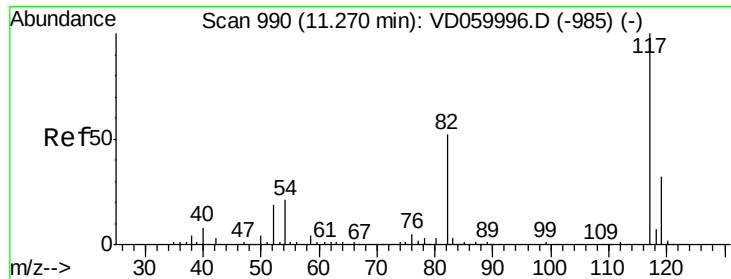
40000

20000

0

Time--> 12.40 12.50

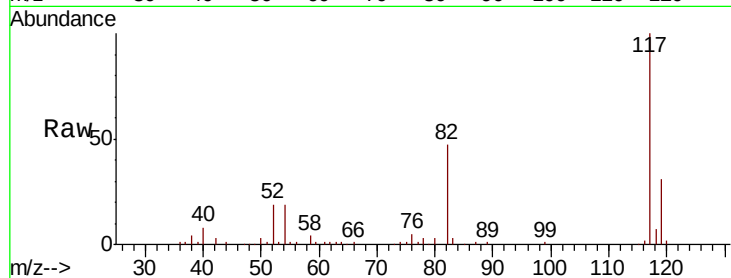




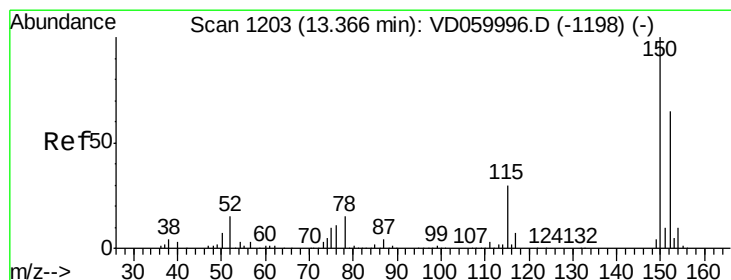
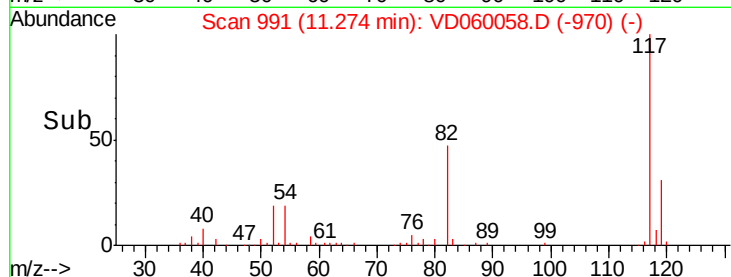
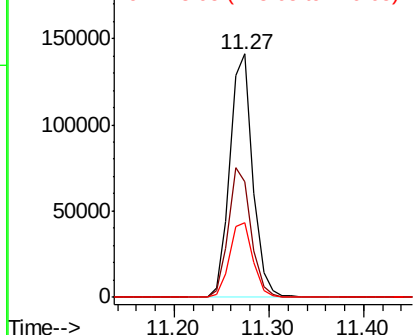
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.27 min Scan# 991
Delta R.T. 0.00 min
Lab File: VD060058.D
Acq: 20 Sep 2018 20:01

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-060

Tot Ion:117 Resp: 236353
Ion Ratio Lower Upper
117 100
82 47.4 41.7 62.5
119 30.9 26.0 39.0

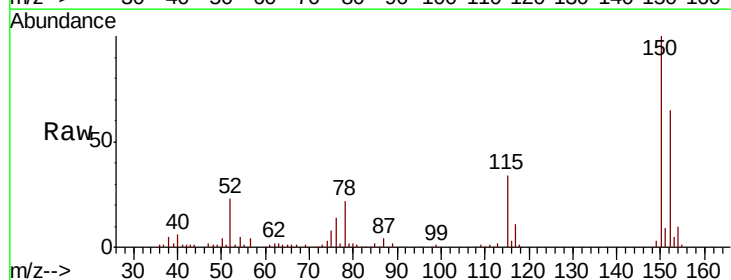


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

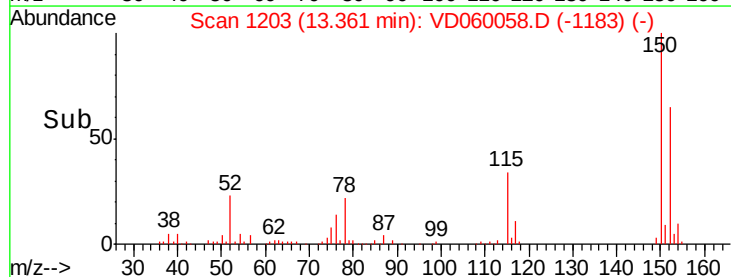
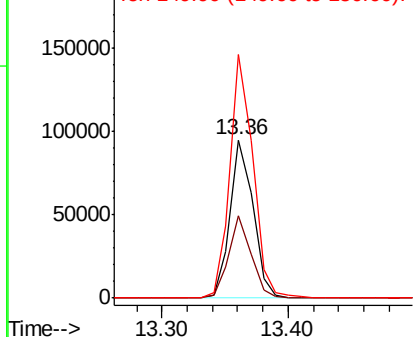


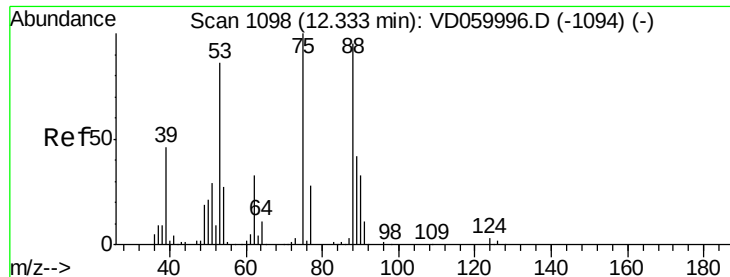
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.36 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VD060058.D
Acq: 20 Sep 2018 20:01

Tgt Ion:152 Resp: 119756
Ion Ratio Lower Upper
152 100
115 52.3 24.6 73.8
150 154.0 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

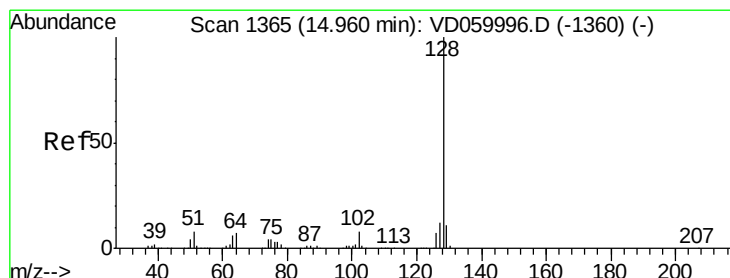
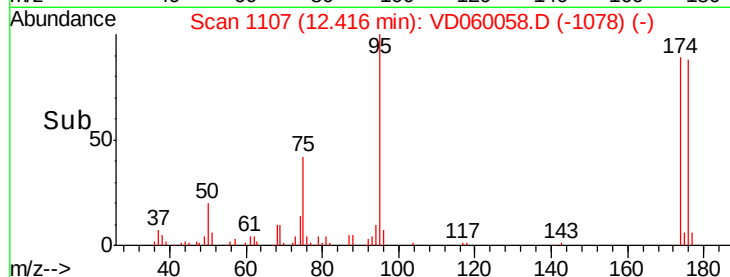
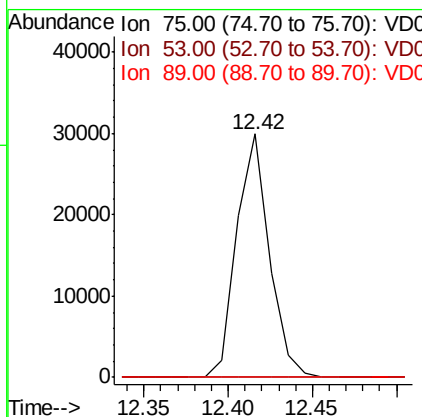
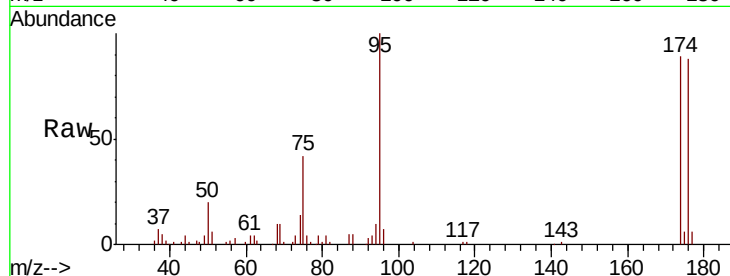




#81
trans-1,4-Dichloro-2-butene
Concen: 72.82 ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.08 min
Lab File: VD060058.D
Acq: 20 Sep 2018 20:01

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-060

Tot Ion: 75 Resp: 40203
Ion Ratio Lower Upper
75 100
53 0.0 68.4 102.6#
89 0.0 33.8 50.6#



#95
Naphthalene
Concen: 2.12 ug/l
RT: 14.95 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VD060058.D
Acq: 20 Sep 2018 20:01

Tgt Ion:128 Resp: 9193
Ion Ratio Lower Upper
128 100
127 17.2 9.7 14.5#
129 40.5 8.9 13.3#

