

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120618\
 Data File : VF060915.D
 Acq On : 6 Dec 2018 14:13
 Operator : VA/AP
 Sample : J6194-01RE
 Misc : 6.84g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 06 15:46:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	196202	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	343823	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	309173	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	167687	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	110889	47.98	ug/l	-0.04
Spiked Amount			Recovery	=	95.96%	
35) Dibromofluoromethane	4.11	113	122377	44.87	ug/l	-0.04
Spiked Amount			Recovery	=	89.74%	
50) Toluene-d8	7.55	98	316673	39.41	ug/l	-0.04
Spiked Amount			Recovery	=	78.82%	
62) 4-Bromofluorobenzene	11.41	95	154483	42.30	ug/l	-0.03
Spiked Amount			Recovery	=	84.60%	

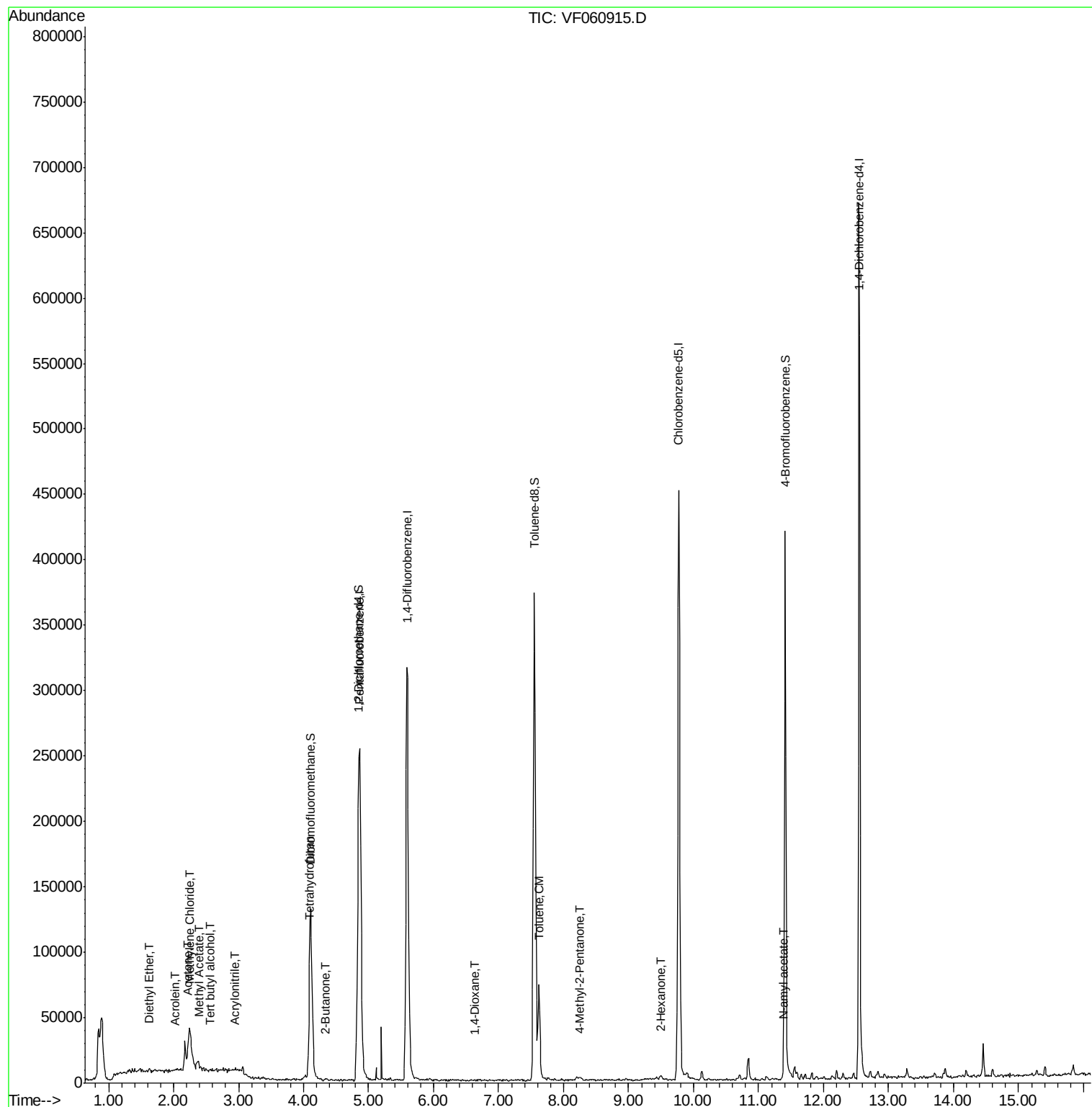
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	939	1.709	ug/l	76
11) Tert butyl alcohol	2.56	59	308	3.251	ug/l #	11
13) Acrolein	2.01	56	1064	11.853	ug/l	91
15) Acrylonitrile	2.94	53	614	2.891	ug/l #	64
16) Acetone	2.22	43	4901	11.499	ug/l #	87
18) Methyl Acetate	2.38	43	2540	1.966	ug/l #	61
20) Methylene Chloride	2.25	84	21648	13.845	ug/l	93
25) 2-Butanone	4.34	43	1575	2.136	ug/l #	57
29) Tetrahydrofuran	4.08	42	1139	3.645	ug/l #	63
41) Methacrylonitrile	4.74	41	179	Below Cal	#	35
43) Isopropyl Acetate	6.95	43	659	Below Cal	#	49
49) 1,4-Dioxane	6.64	88	69	6.721	ug/l #	17
51) 4-Methyl-2-Pentanone	8.26	43	2598	1.818	ug/l #	79
52) Toluene	7.62	92	37583	6.351	ug/l	97
59) 2-Hexanone	9.50	43	3463	3.454	ug/l	82
74) N-amyl acetate	11.37	43	3362	1.099	ug/l #	85
95) Naphthalene	14.46	128	18332	Below Cal		98

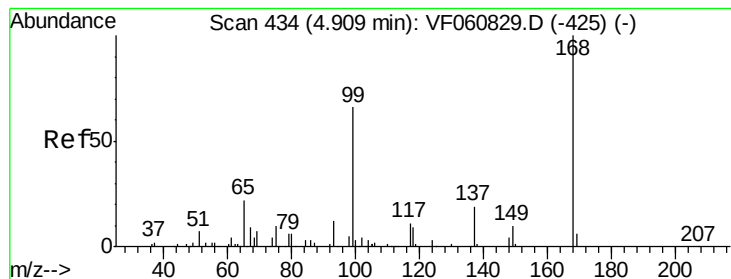
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

Instrument :

MSVOA_F

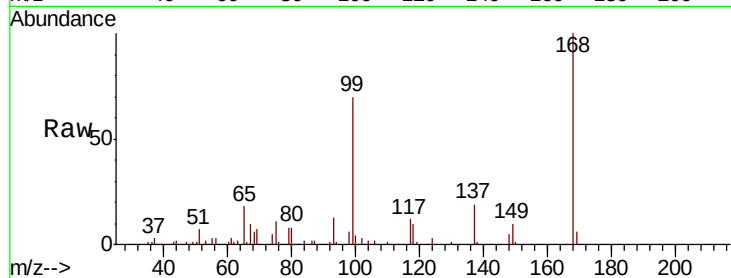
ClientSampleId :

Tot Ion:168 Resp: 196202

Ion Ratio Lower Upper

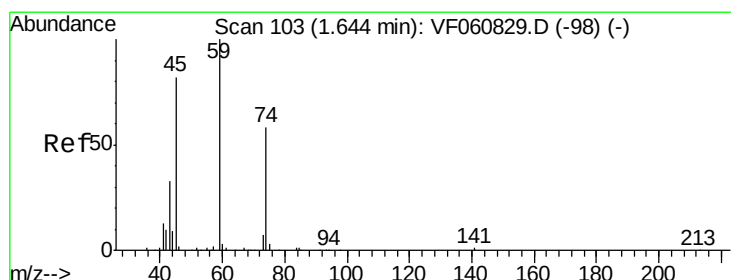
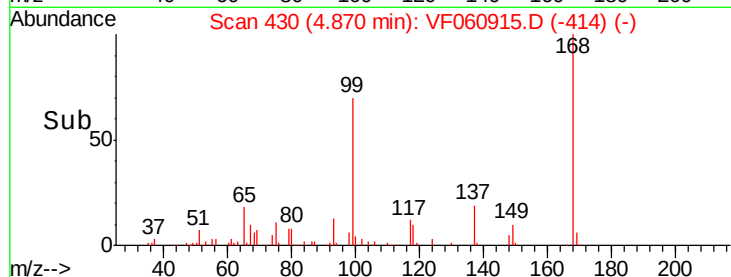
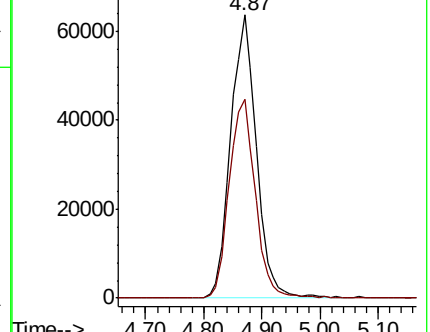
168 100

99 70.2 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.709 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF060915.D

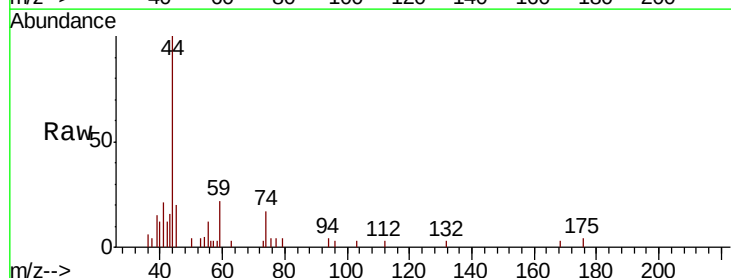
Acq: 6 Dec 2018 14:13

Tgt Ion: 74 Resp: 939

Ion Ratio Lower Upper

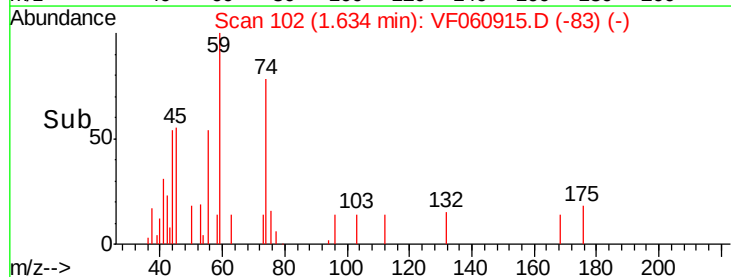
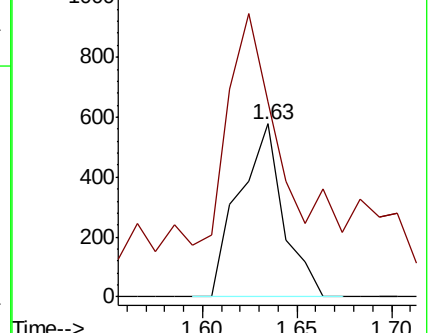
74 100

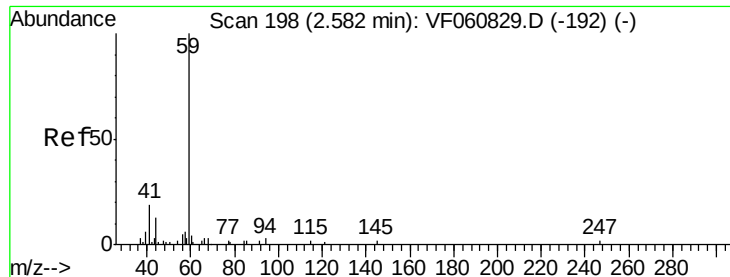
45 113.0 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



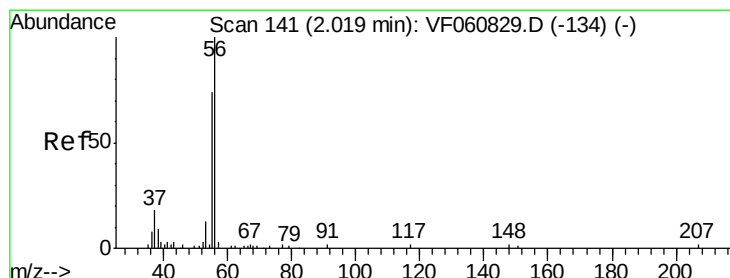
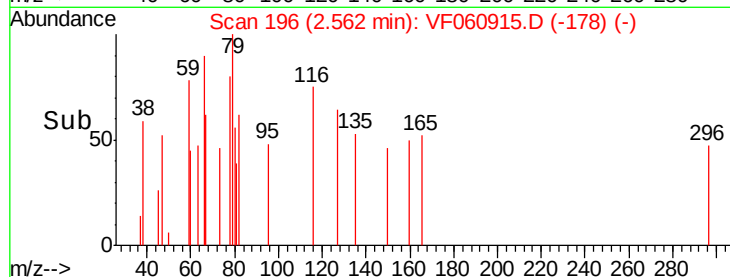
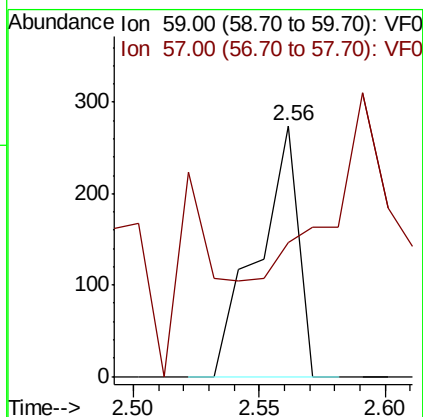
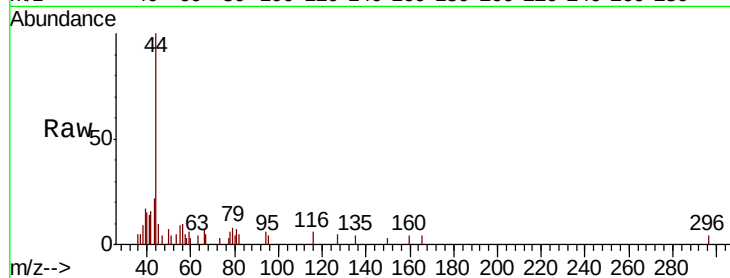


#11

Tert butyl alcohol
 Concen: 3.251 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.02 min
 Lab File: VF060915.D
 Acq: 6 Dec 2018 14:13

Instrument :
 MSVOA_F
 ClientSampled :

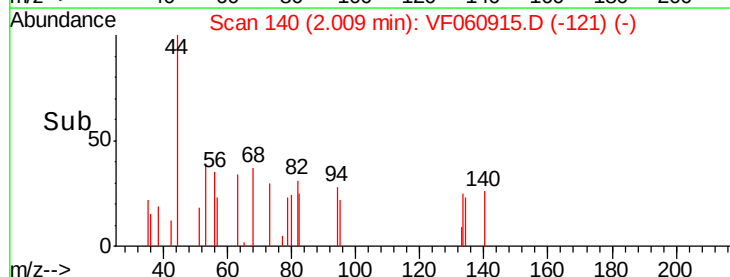
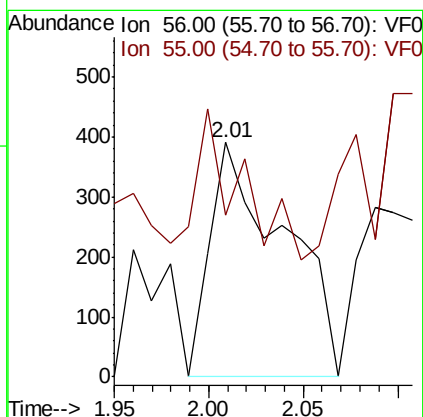
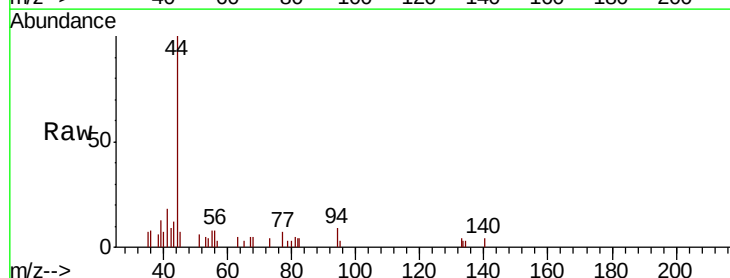
Tot Ion: 59 Resp: 308
 Ion Ratio Lower Upper
 59 100
 57 53.6 12.7 19.1#

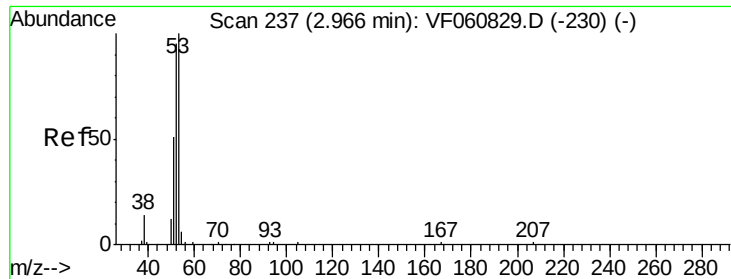


#13

Acrolein
 Concen: 11.853 ug/l
 RT: 2.01 min Scan# 140
 Delta R.T. -0.01 min
 Lab File: VF060915.D
 Acq: 6 Dec 2018 14:13

Tgt Ion: 56 Resp: 1064
 Ion Ratio Lower Upper
 56 100
 55 68.8 61.2 91.8





#15

Acrylonitrile

Concen: 2.891 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

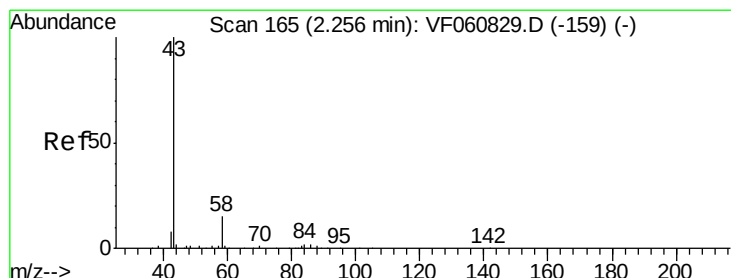
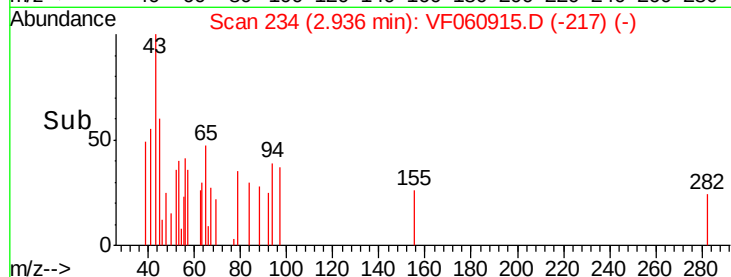
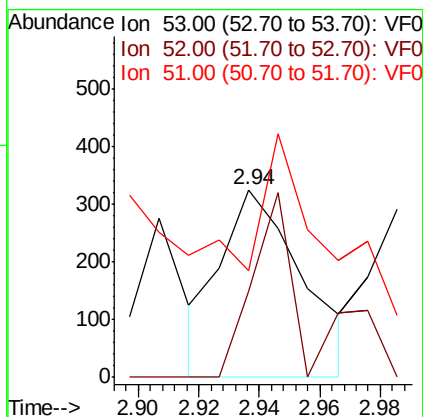
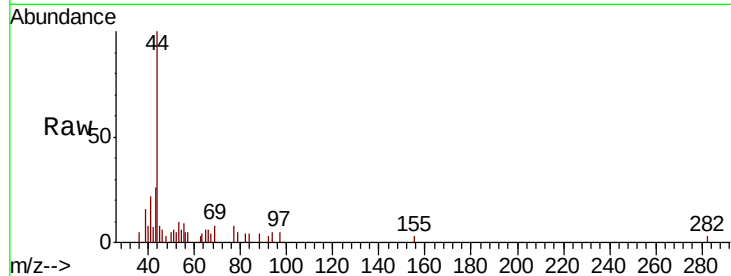
Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 53 Resp: 614

Ion	Ratio	Lower	Upper
53	100		
52	46.0	76.5	114.7#
51	56.7	40.7	61.1



#16

Acetone

Concen: 11.499 ug/l

RT: 2.22 min Scan# 161

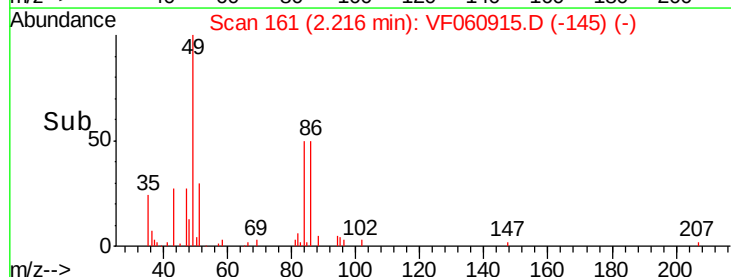
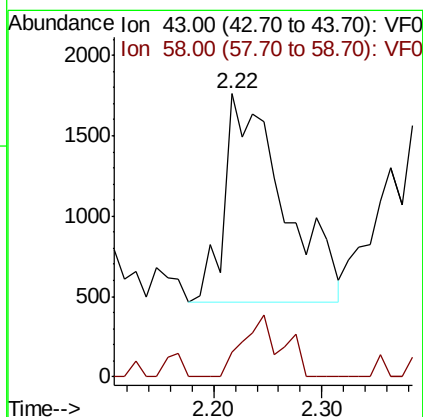
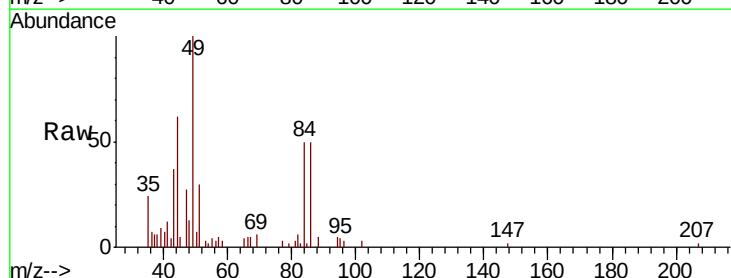
Delta R.T. -0.04 min

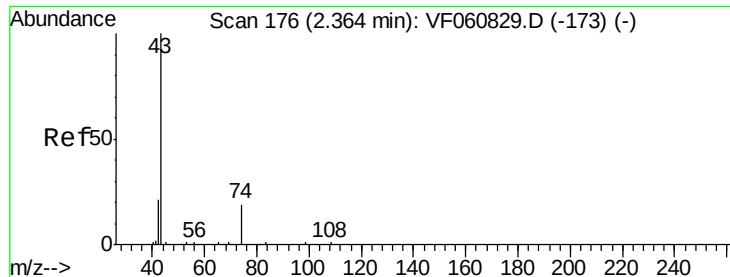
Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

Tgt Ion: 43 Resp: 4901

Ion	Ratio	Lower	Upper
43	100		
58	9.0	11.4	17.2#

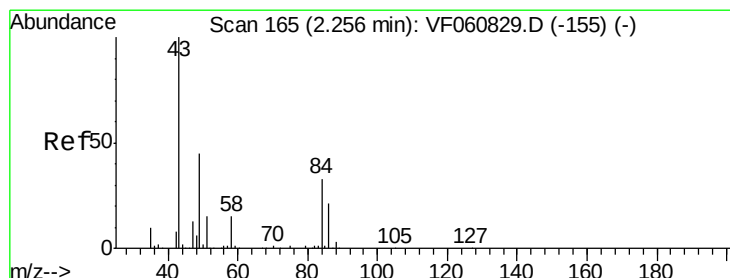
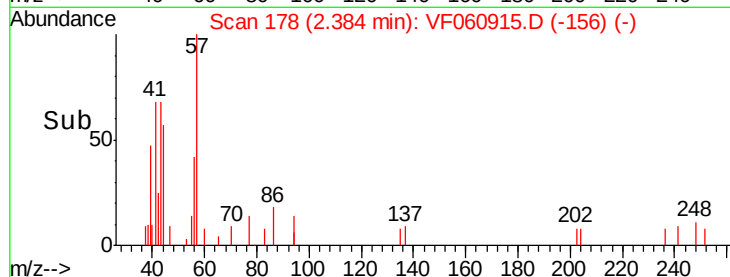
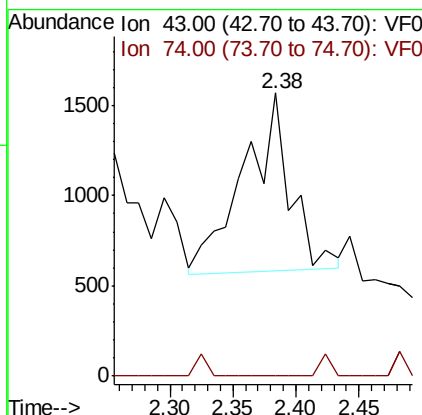
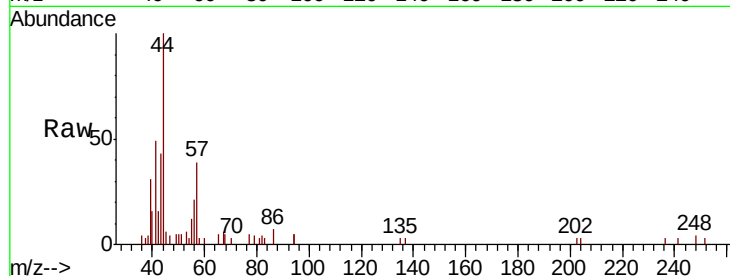




#18
Methyl Acetate
Concen: 1.966 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.02 min
Lab File: VF060915.D
Acq: 6 Dec 2018 14:13

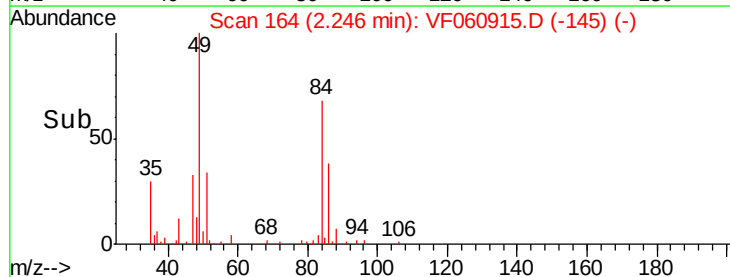
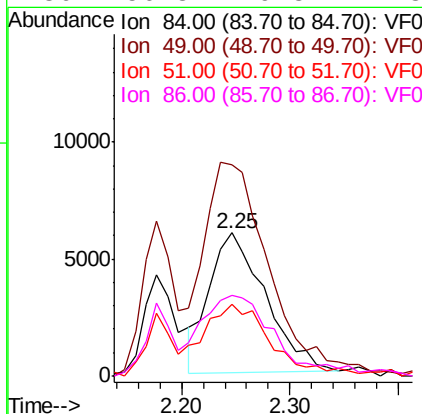
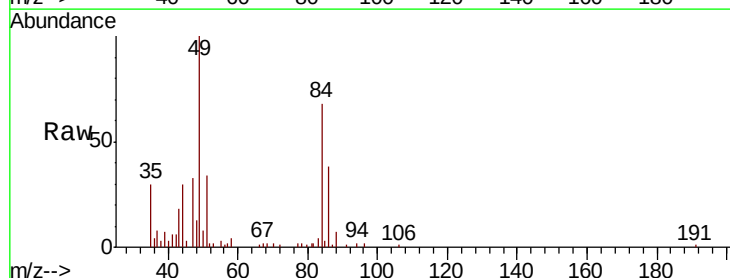
Instrument :
MSVOA_F
ClientSampleId :

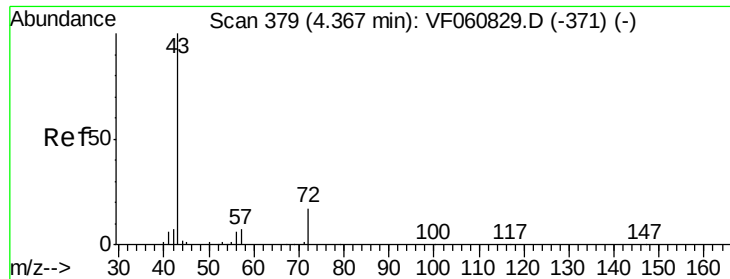
Tot Ion: 43 Resp: 2540
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 13.845 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060915.D
Acq: 6 Dec 2018 14:13

Tgt Ion: 84 Resp: 21648
Ion Ratio Lower Upper
84 100
49 147.9 111.3 166.9
51 50.2 38.0 57.0
86 56.3 49.8 74.8





#25

2-Butanone

Concen: 2.136 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

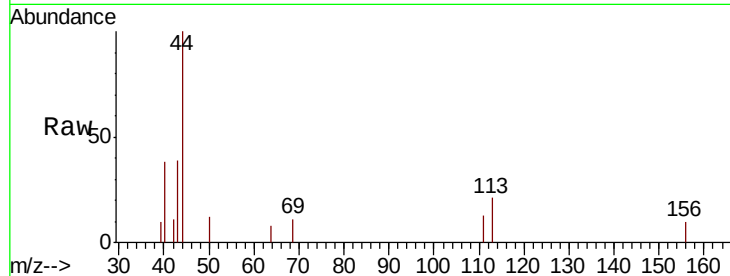
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1575

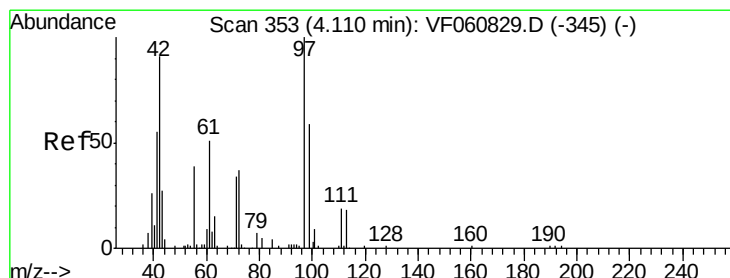
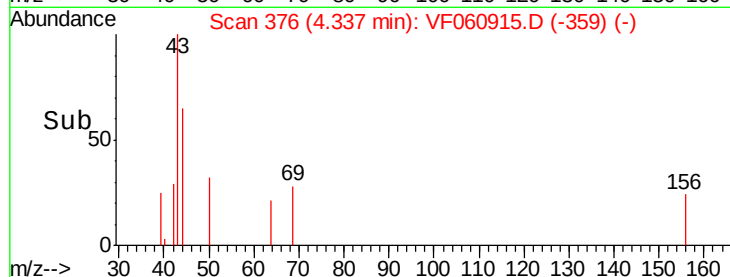
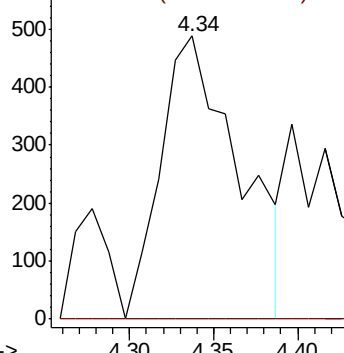
Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 3.645 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

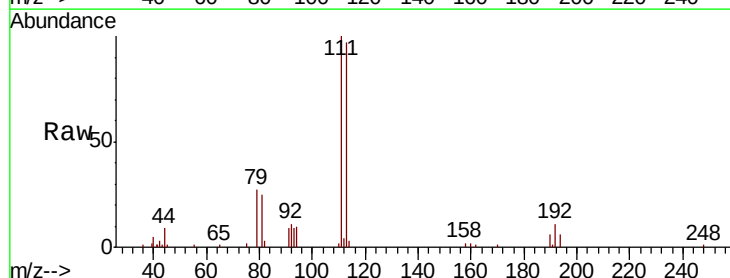
Tgt Ion: 42 Resp: 1139

Ion Ratio Lower Upper

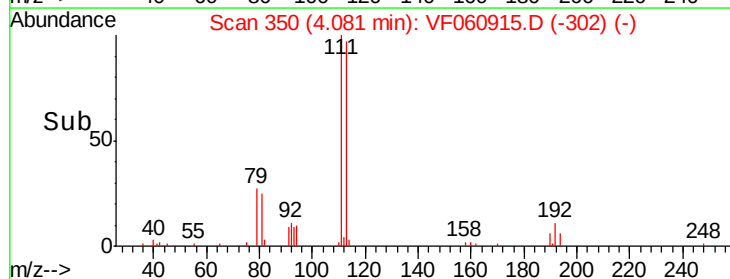
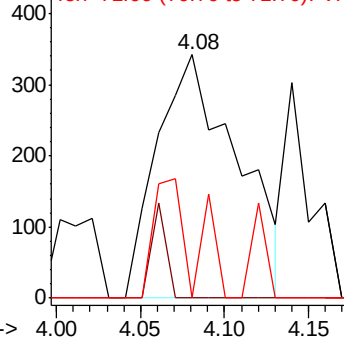
42 100

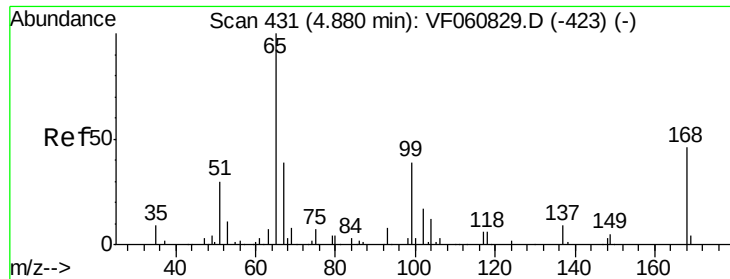
72 6.9 31.9 47.9#

71 24.7 28.7 43.1#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

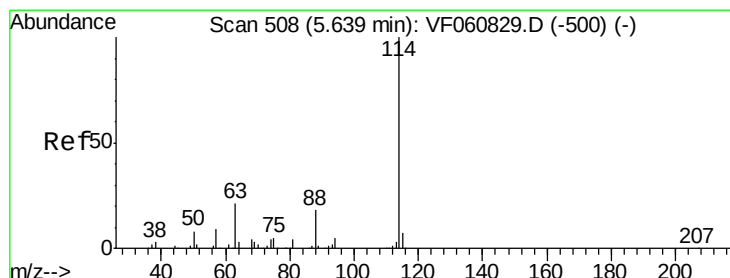
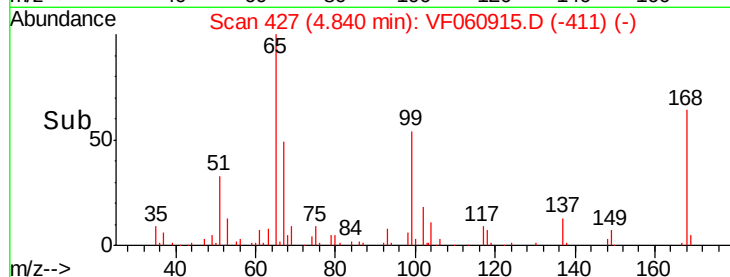
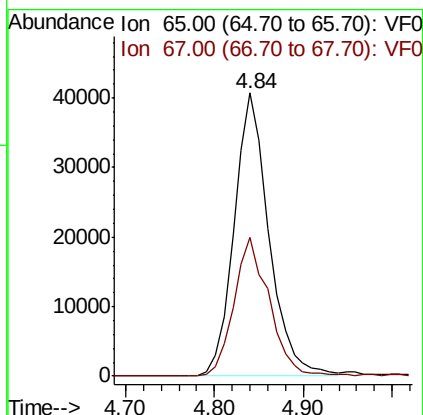
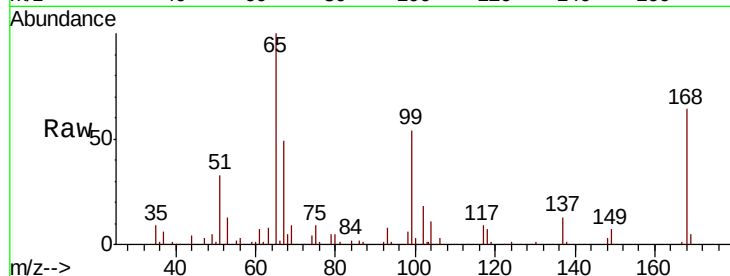




#33
 1,2-Dichloroethane-d4
 Concen: 47.976 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF060915.D
 Acq: 6 Dec 2018 14:13

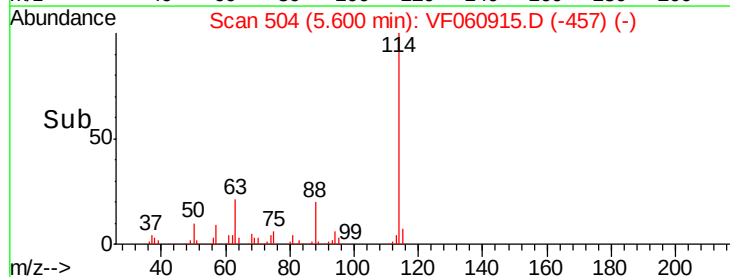
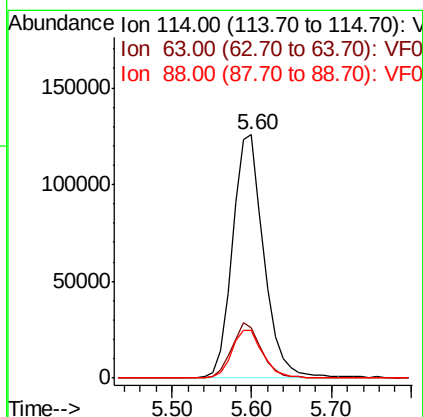
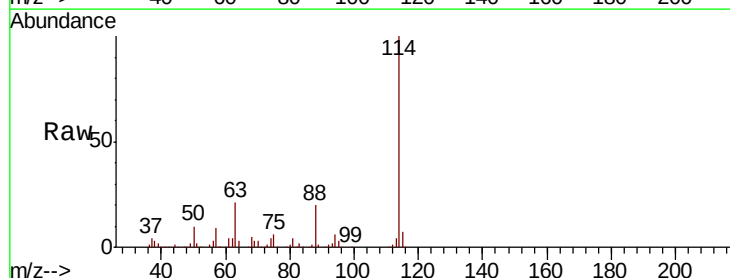
Instrument :
 MSVOA_F
 ClientSampleId :

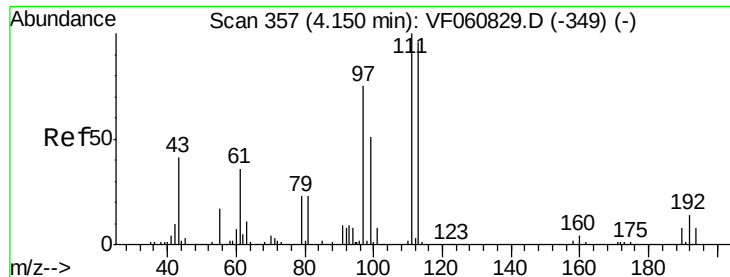
Tot Ion: 65 Resp: 110889
 Ion Ratio Lower Upper
 65 100
 67 49.1 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF060915.D
 Acq: 6 Dec 2018 14:13

Tgt Ion: 114 Resp: 343823
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.6
 88 19.9 0.0 36.6

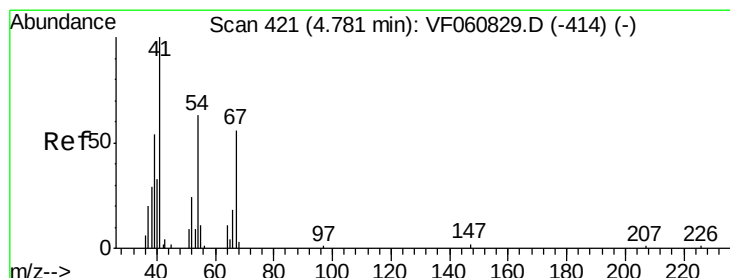
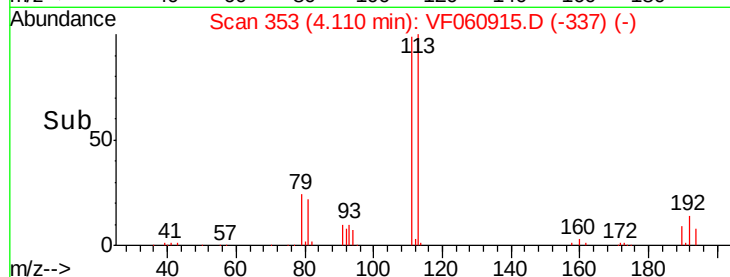
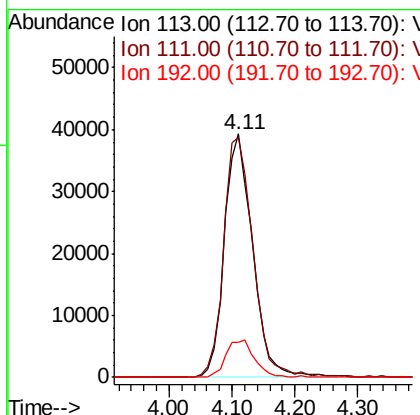
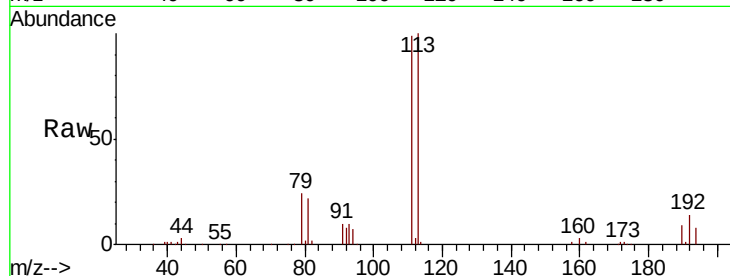




#35
 Dibromofluoromethane
 Concen: 44.866 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF060915.D
 Acq: 6 Dec 2018 14:13

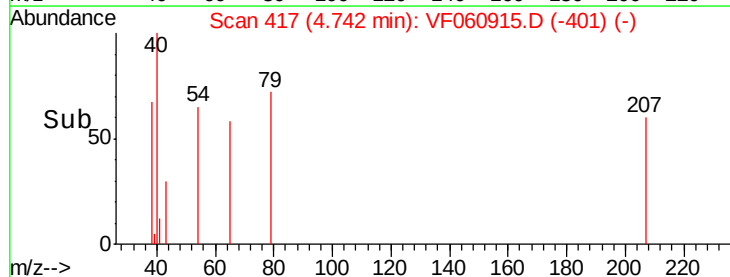
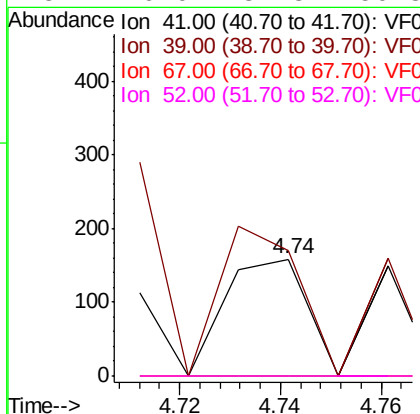
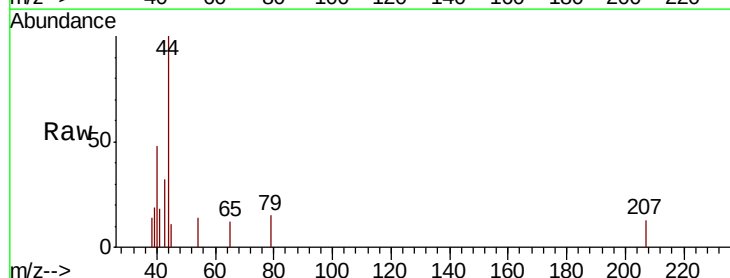
Instrument :
 MSVOA_F
 ClientSampleId :

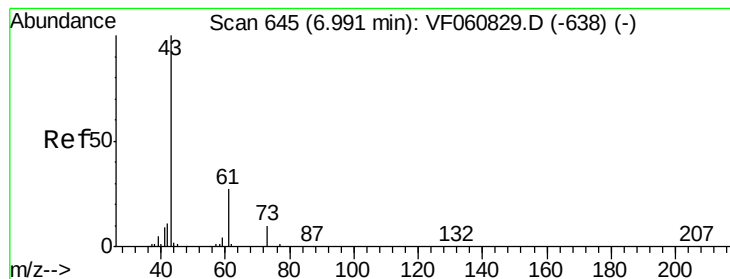
Tot Ion:113 Resp: 122377
 Ion Ratio Lower Upper
 113 100
 111 98.7 83.0 124.6
 192 14.3 12.3 18.5



#41
 Methacrylonitrile
 Concen: Below Cal
 RT: 4.74 min Scan# 417
 Delta R.T. -0.04 min
 Lab File: VF060915.D
 Acq: 6 Dec 2018 14:13

Tgt Ion: 41 Resp: 179
 Ion Ratio Lower Upper
 41 100
 39 108.2 53.0 79.6#
 67 0.0 43.8 65.6#
 52 0.0 37.8 56.8#



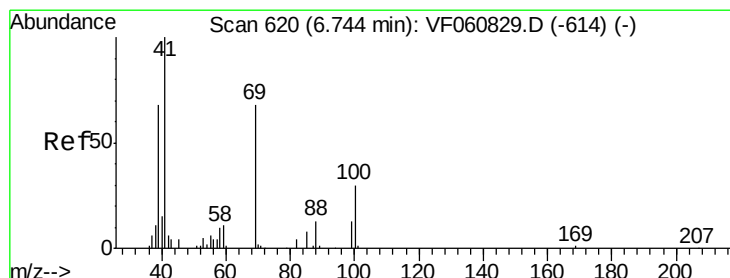
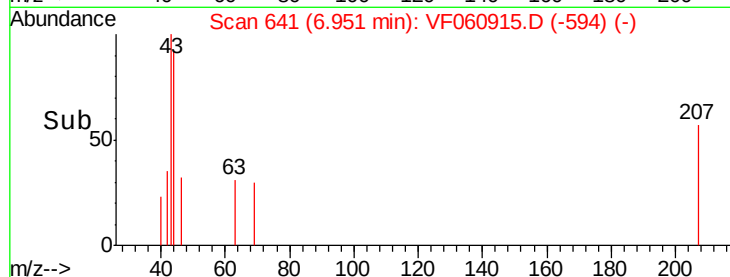
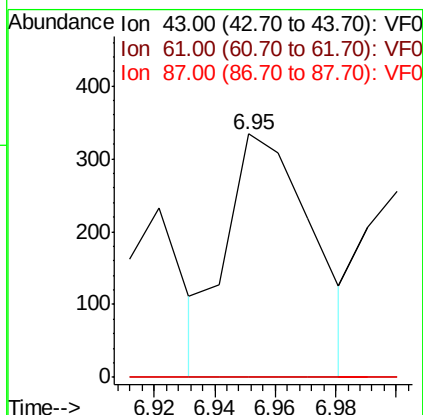
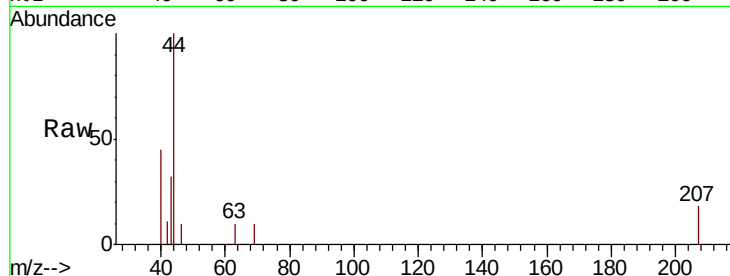


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.95 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: VF060915.D
 Acq: 6 Dec 2018 14:13

Instrument :
 MSVOA_F
 ClientSampleId :

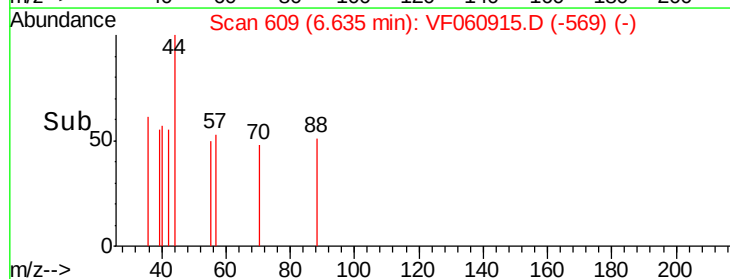
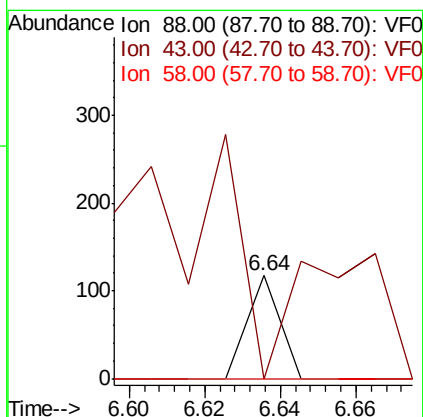
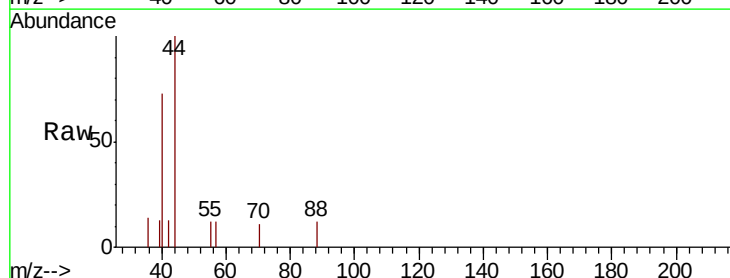
Tot Ion: 43 Resp: 659
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

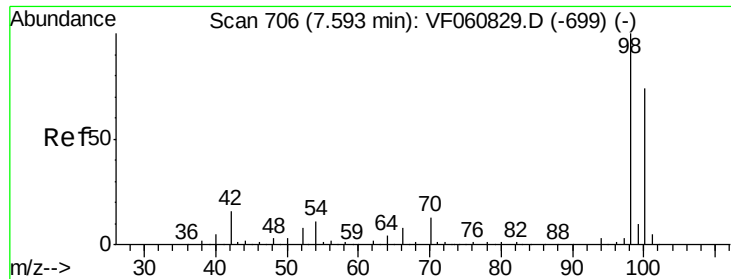


#49

1,4-Dioxane
 Concen: 6.721 ug/l
 RT: 6.64 min Scan# 609
 Delta R.T. -0.11 min
 Lab File: VF060915.D
 Acq: 6 Dec 2018 14:13

Tgt Ion: 88 Resp: 69
 Ion Ratio Lower Upper
 88 100
 43 0.0 42.0 63.0#
 58 0.0 61.8 92.8#





#50

Toluene-d8

Concen: 39.413 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

Instrument :

MSVOA_F

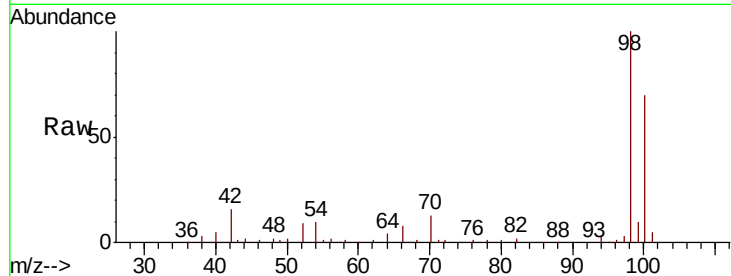
ClientSampleId :

Tot Ion: 98 Resp: 316673

Ion Ratio Lower Upper

98 100

100 70.0 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

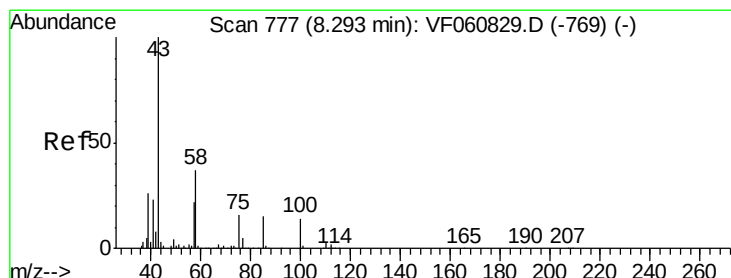
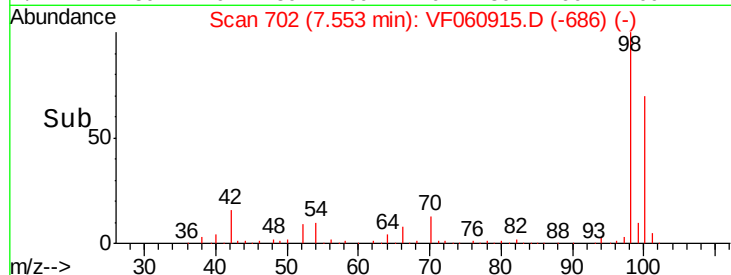
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.818 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060915.D

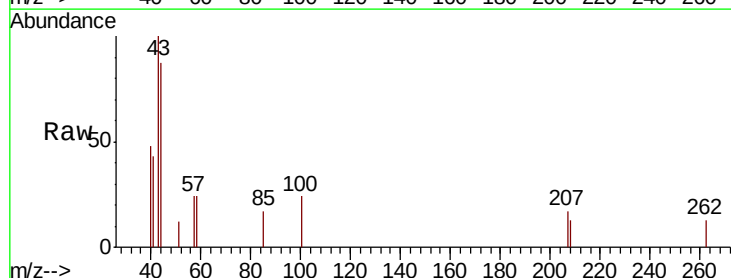
Acq: 6 Dec 2018 14:13

Tgt Ion: 43 Resp: 2598

Ion Ratio Lower Upper

43 100

58 24.3 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1200

1000

800

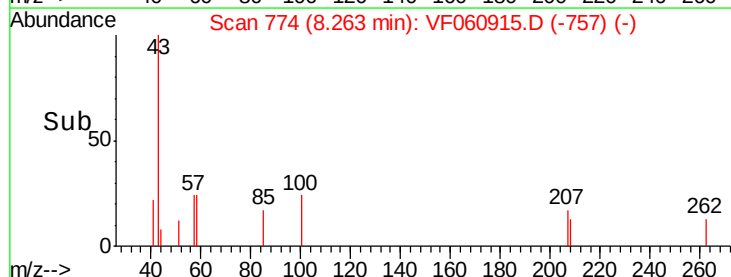
600

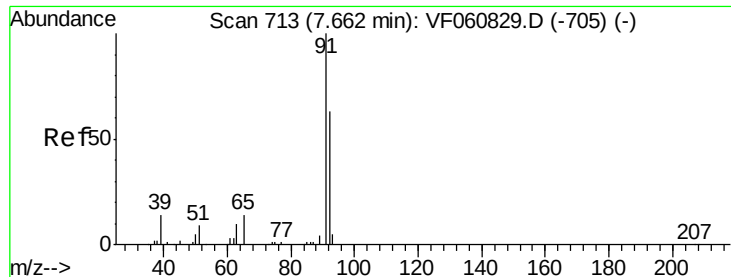
400

200

0

Time-->





#52

Toluene

Concen: 6.351 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

Instrument :

MSVOA_F

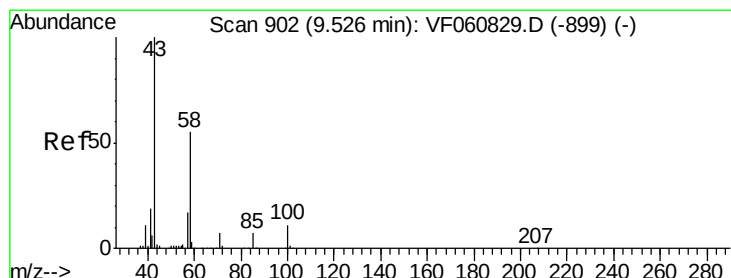
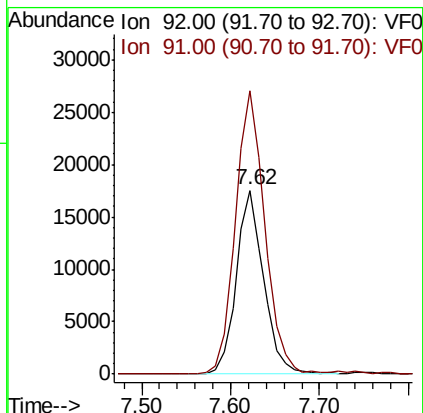
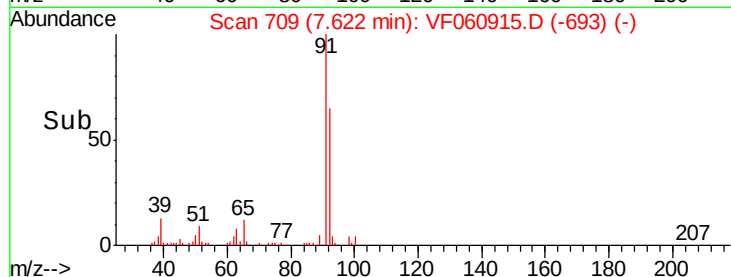
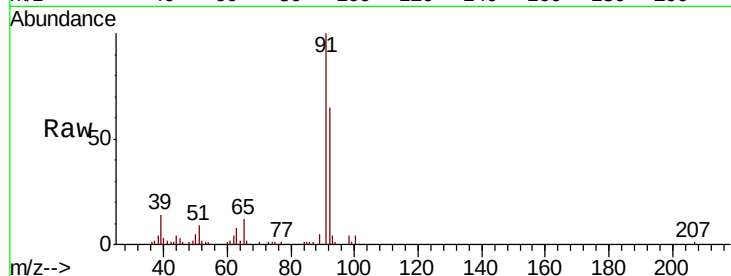
ClientSampleId :

Tot Ion: 92 Resp: 37583

Ion Ratio Lower Upper

92 100

91 154.2 126.2 189.2



#59

2-Hexanone

Concen: 3.454 ug/l

RT: 9.50 min Scan# 899

Delta R.T. -0.03 min

Lab File: VF060915.D

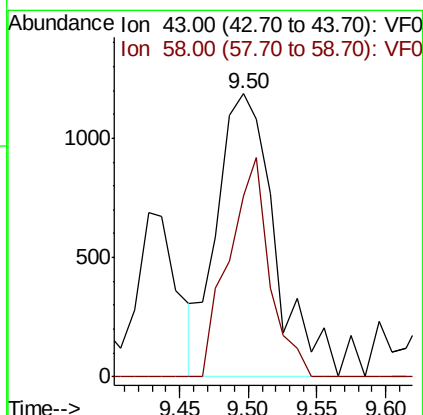
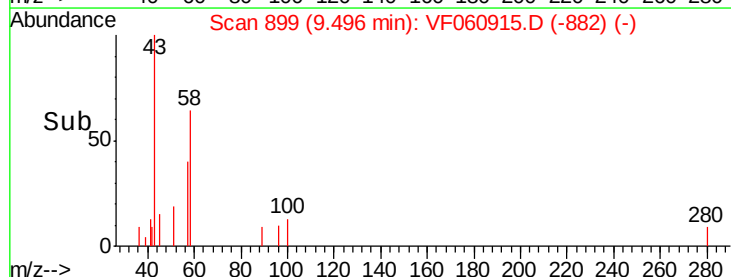
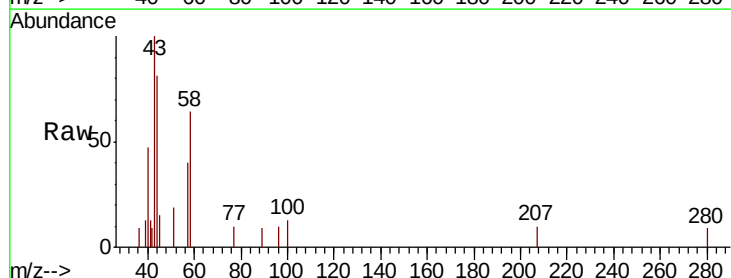
Acq: 6 Dec 2018 14:13

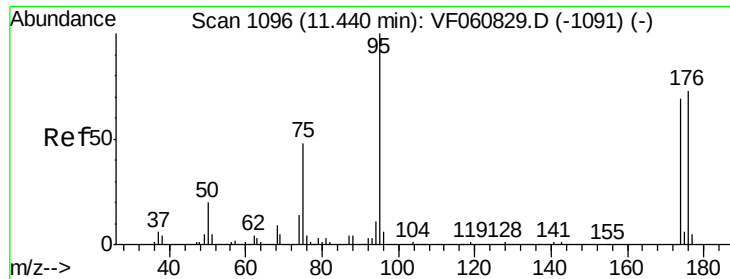
Tgt Ion: 43 Resp: 3463

Ion Ratio Lower Upper

43 100

58 63.7 25.6 76.6





#62

4-Bromofluorobenzene

Concen: 42.304 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

Instrument :

MSVOA_F

ClientSampleId :

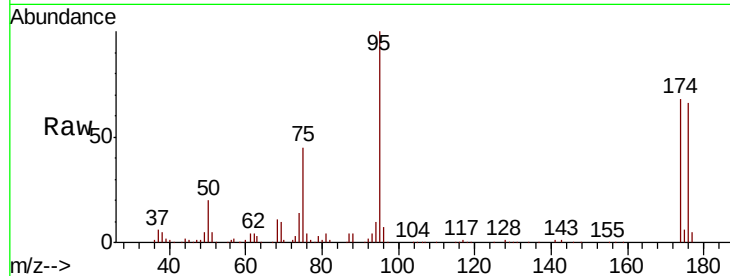
Tot Ion: 95 Resp: 154483

Ion Ratio Lower Upper

95 100

174 67.7 0.0 138.2

176 66.2 0.0 146.2

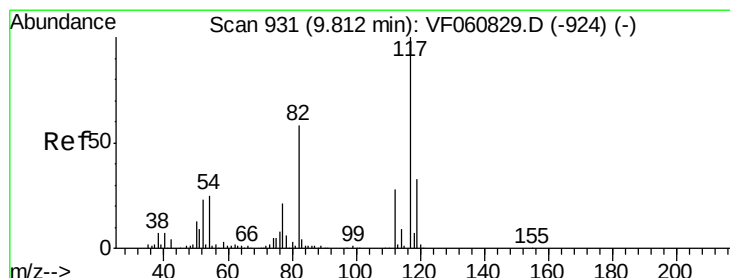
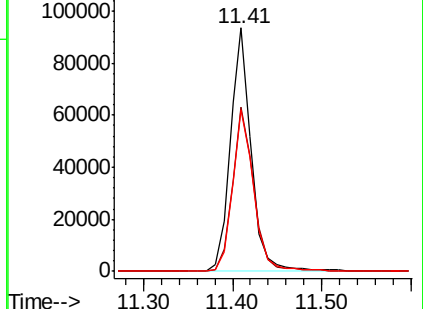
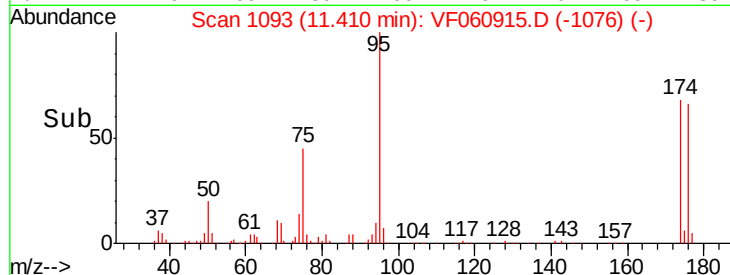


Abundance Ion 95.00 (94.70 to 95.70): VF060829.D (-1091) (-)

Ion 174.00 (173.70 to 174.70): VF060829.D (-1091) (-)

Ion 176.00 (175.70 to 176.70): VF060829.D (-1091) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF060915.D

Acq: 6 Dec 2018 14:13

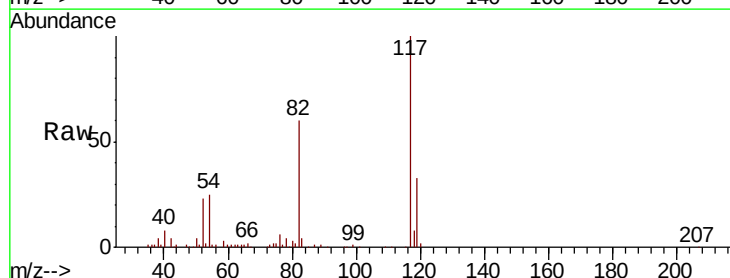
Tgt Ion: 117 Resp: 309173

Ion Ratio Lower Upper

117 100

82 60.2 46.6 69.8

119 33.3 26.4 39.6

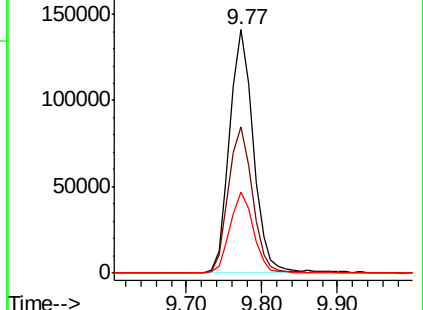
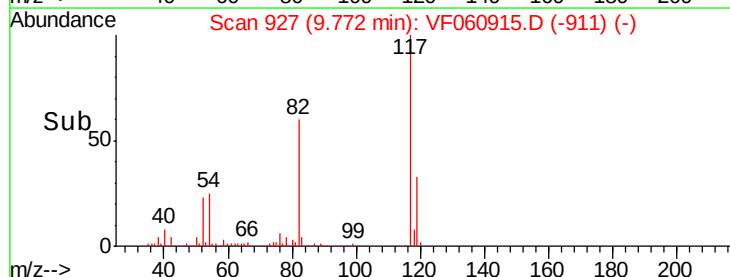


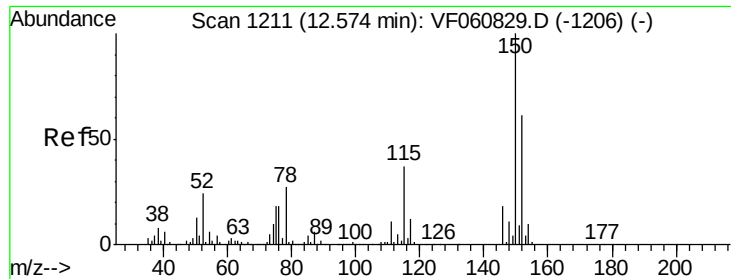
Abundance Ion 117.00 (116.70 to 117.70): VF060829.D (-924) (-)

Ion 82.00 (81.70 to 82.70): VF060829.D (-924) (-)

Ion 119.00 (118.70 to 119.70): VF060829.D (-924) (-)

Time-->



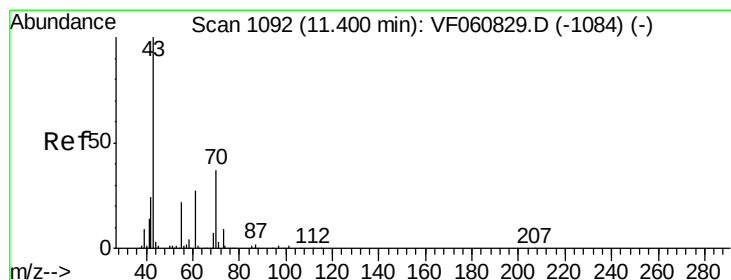
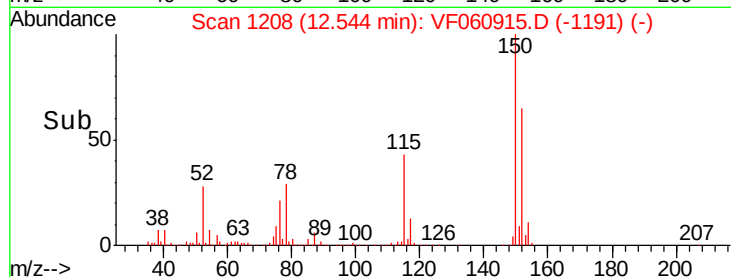
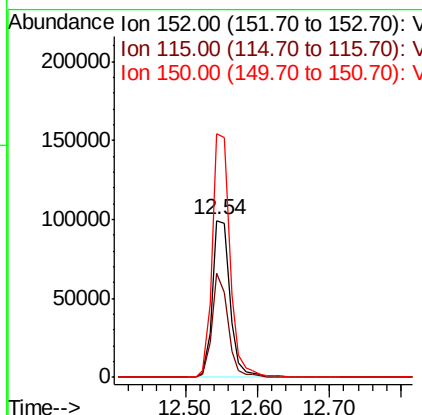
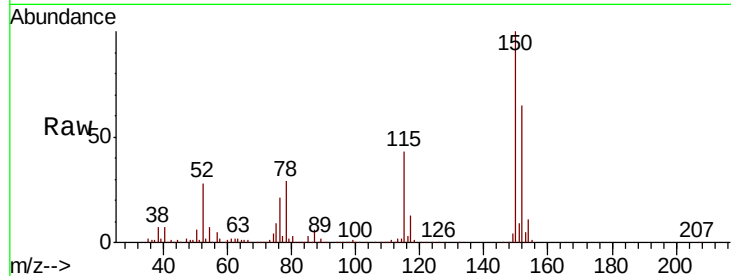


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF060915.D
Acq: 6 Dec 2018 14:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 167687
Ion Ratio Lower Upper
152 100
115 65.9 30.1 90.5
150 154.9 0.0 327.6



#74

N-amil acetate
Concen: 1.099 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.03 min
Lab File: VF060915.D
Acq: 6 Dec 2018 14:13

Tgt Ion: 43 Resp: 3362
Ion Ratio Lower Upper
43 100
70 20.0 29.6 44.4#
55 18.8 17.2 25.8
61 29.8 21.8 32.6

