

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\
 Data File : VF060867.D
 Acq On : 29 Nov 2018 15:02
 Operator : VA/AP
 Sample : VF1129SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1129SBL01

Quant Time: Nov 30 05:57:19 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	213330	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	374804	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	329588	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.56	152	194932	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	137831	54.85	ug/l	-0.03
Spiked Amount			Recovery	=	109.70%	
35) Dibromofluoromethane	4.12	113	164722	55.40	ug/l	-0.03
Spiked Amount			Recovery	=	110.80%	
50) Toluene-d8	7.56	98	424476	48.46	ug/l	-0.03
Spiked Amount			Recovery	=	96.92%	
62) 4-Bromofluorobenzene	11.41	95	207224	52.06	ug/l	-0.03
Spiked Amount			Recovery	=	104.12%	

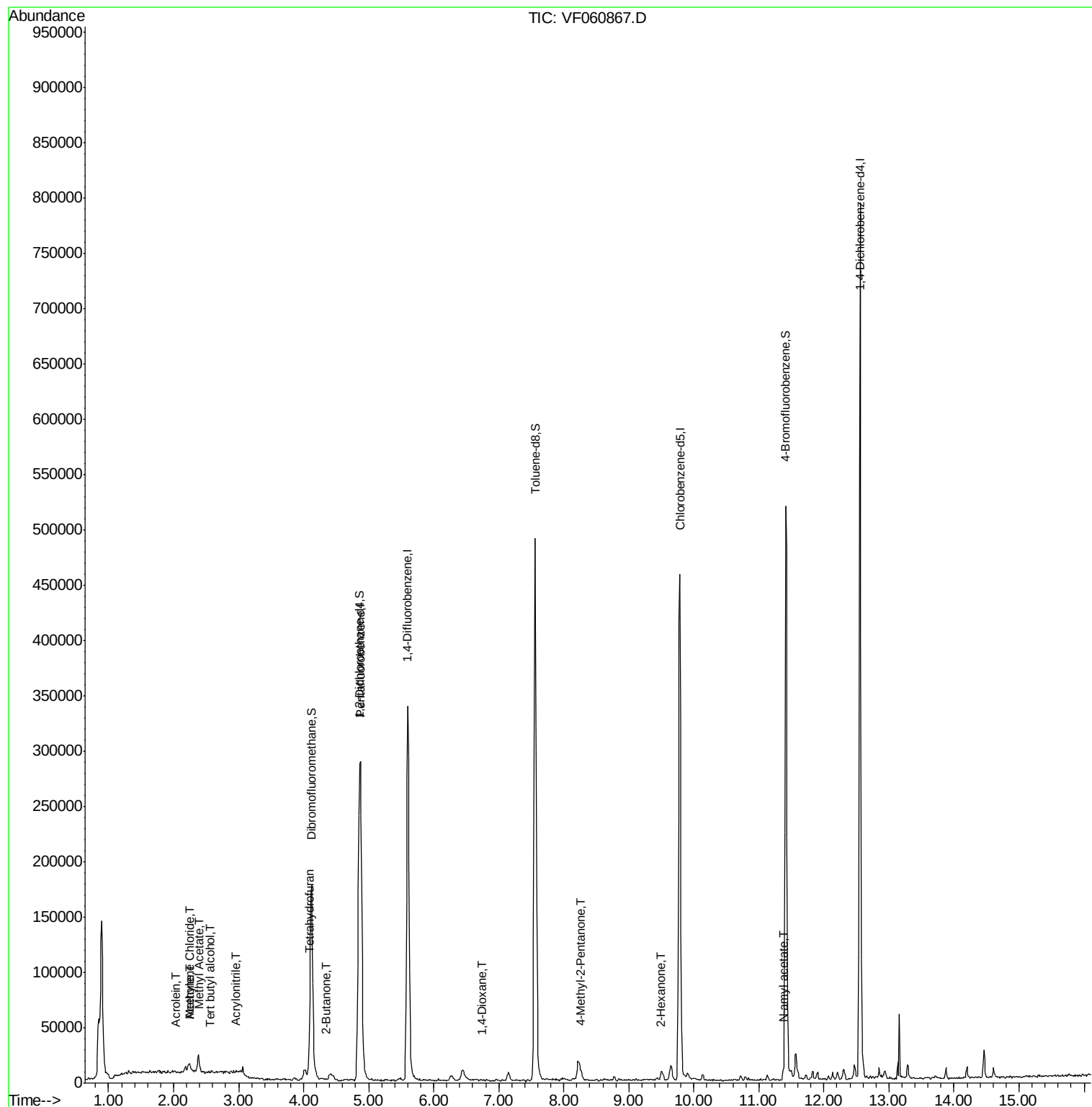
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	421	4.087	ug/l #	1
13) Acrolein	2.04	56	218	2.233	ug/l #	1
15) Acrylonitrile	2.95	53	1564	6.772	ug/l #	50
16) Acetone	2.24	43	2821	6.087	ug/l	98
18) Methyl Acetate	2.39	43	5933	6.184	ug/l #	72
20) Methylene Chloride	2.25	84	4010	2.359	ug/l	93
25) 2-Butanone	4.36	43	2957	3.689	ug/l #	57
29) Tetrahydrofuran	4.08	42	1054	3.102	ug/l #	76
41) Methacrylonitrile	4.75	41	369	Below Cal	#	88
43) Isopropyl Acetate	6.95	43	1523	Below Cal	#	49
49) 1,4-Dioxane	6.74	88	121	10.812	ug/l #	8
51) 4-Methyl-2-Pentanone	8.27	43	5880	3.774	ug/l	96
59) 2-Hexanone	9.50	43	7384	6.756	ug/l	93
74) N-amyl acetate	11.37	43	7073	1.988	ug/l #	91
95) Naphthalene	14.46	128	14969	Below Cal		96

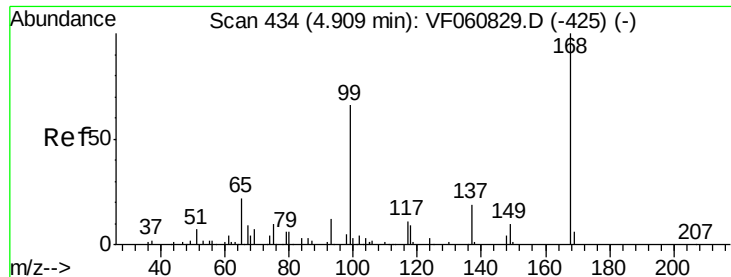
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

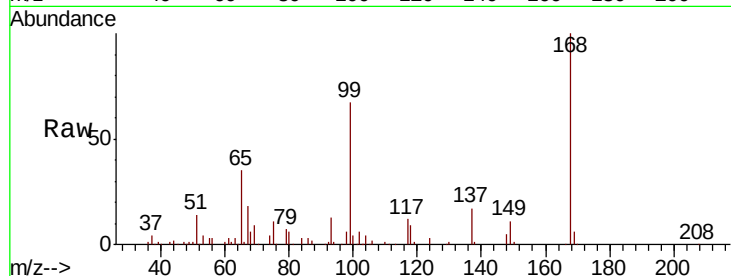
VF1129SBL01

Tot Ion:168 Resp: 213330

Ion Ratio Lower Upper

168 100

99 67.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

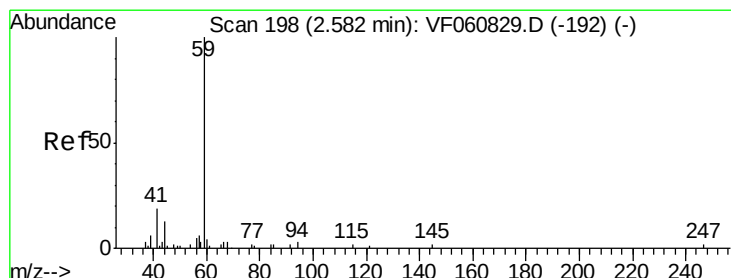
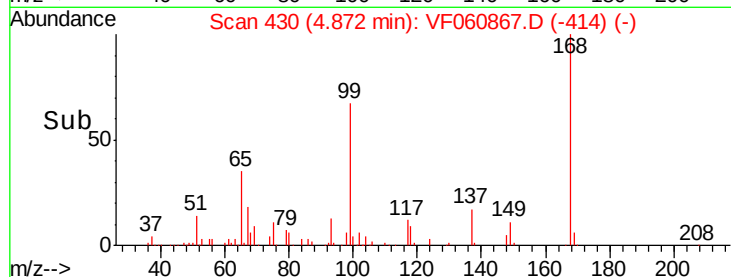
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 4.087 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF060867.D

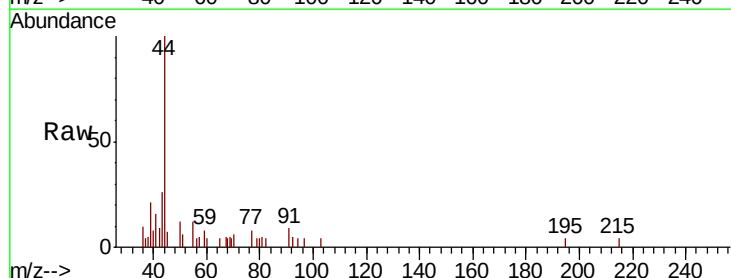
Acq: 29 Nov 2018 15:02

Tgt Ion: 59 Resp: 421

Ion Ratio Lower Upper

59 100

57 68.1 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

150

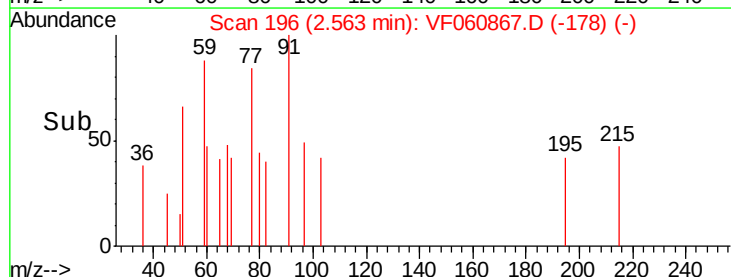
100

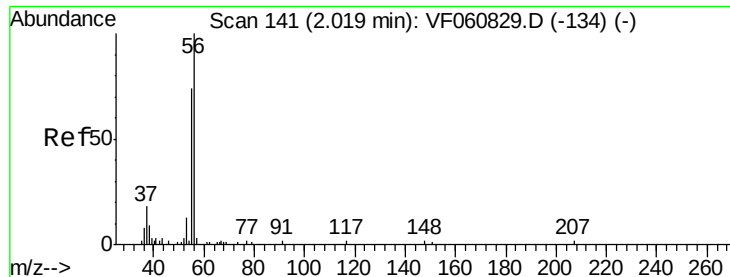
50

0

Time-->

2.50 2.55 2.60





#13

Acrolein

Concen: 2.233 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.02 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

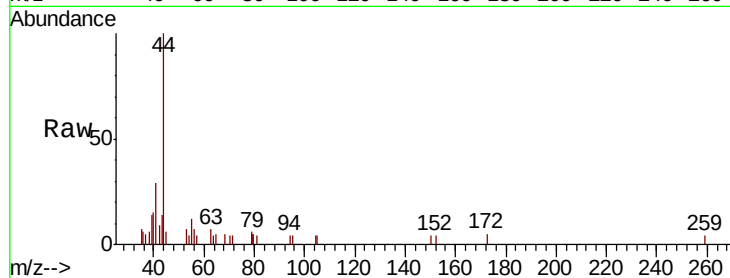
VF1129SBL01

Tot Ion: 56 Resp: 218

Ion Ratio Lower Upper

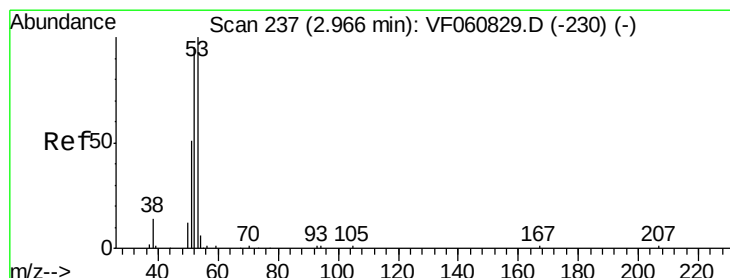
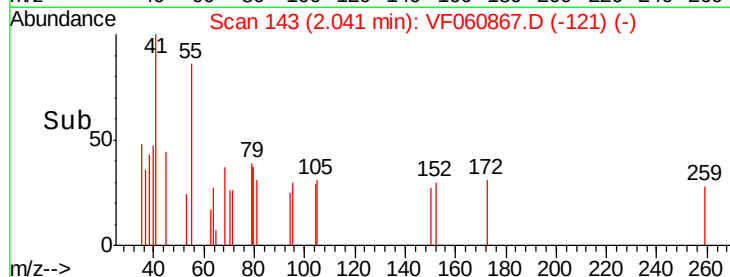
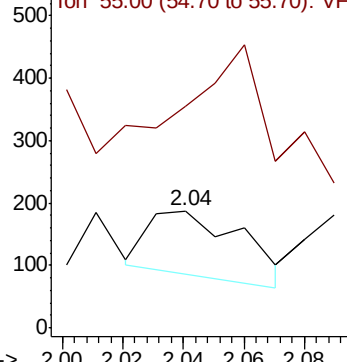
56 100

55 189.4 61.2 91.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 6.772 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

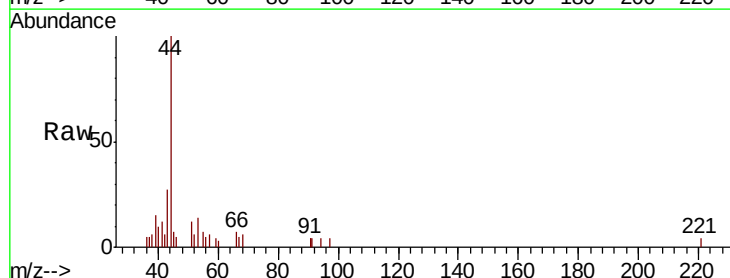
Tgt Ion: 53 Resp: 1564

Ion Ratio Lower Upper

53 100

52 44.5 76.5 114.7#

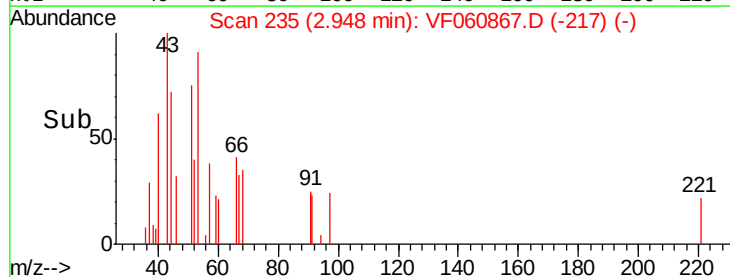
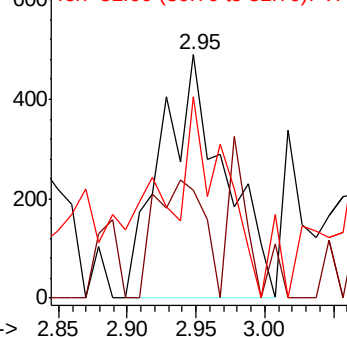
51 82.4 40.7 61.1#

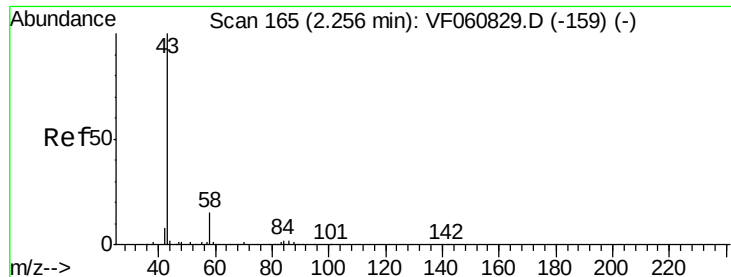


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 6.087 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

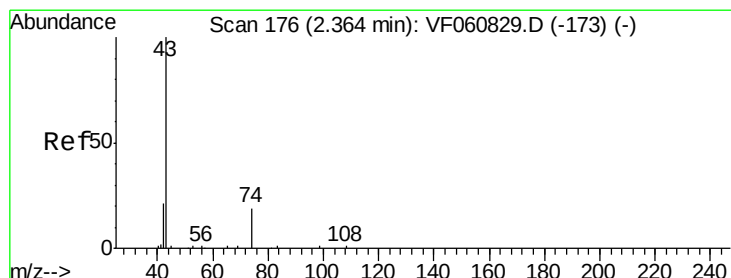
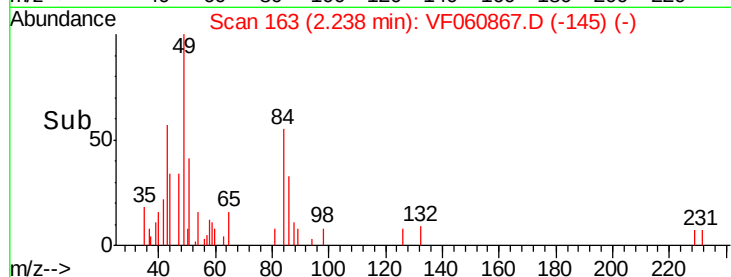
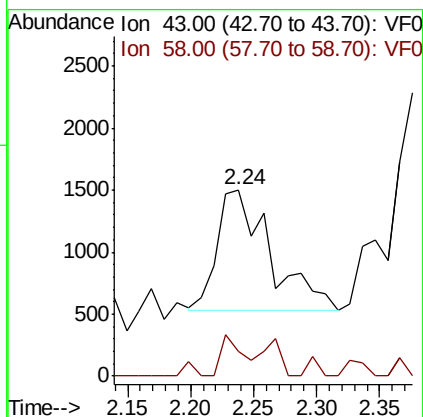
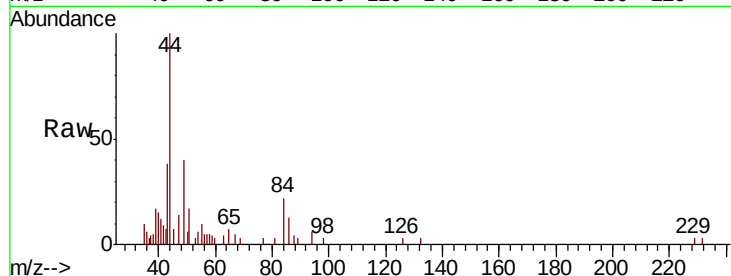
VF1129SBL01

Tot Ion: 43 Resp: 2821

Ion Ratio Lower Upper

43 100

58 13.3 11.4 17.2



#18

Methyl Acetate

Concen: 6.184 ug/l

RT: 2.39 min Scan# 178

Delta R.T. 0.02 min

Lab File: VF060867.D

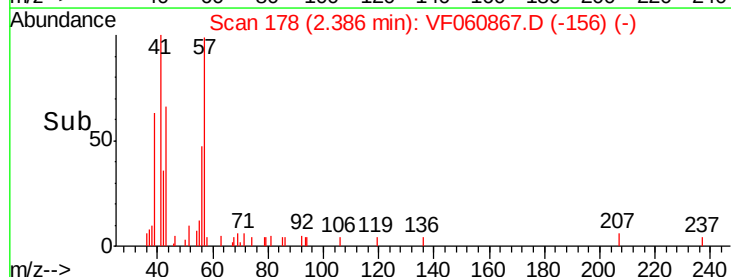
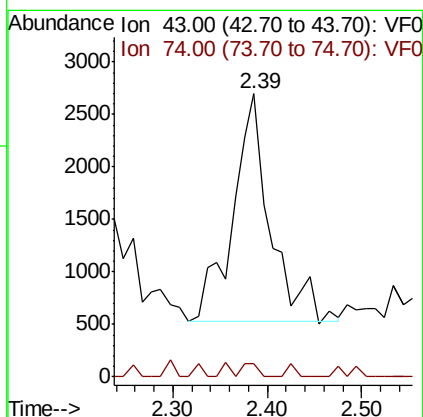
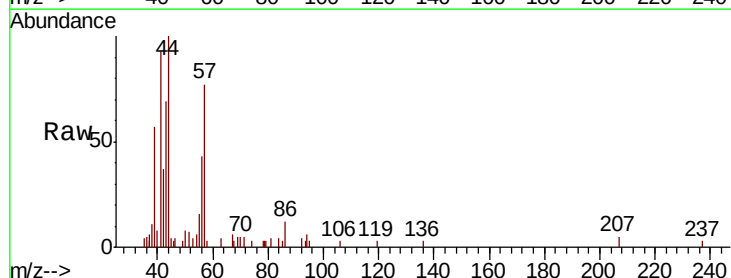
Acq: 29 Nov 2018 15:02

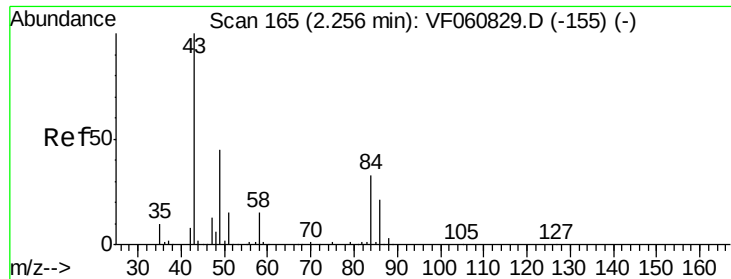
Tgt Ion: 43 Resp: 5933

Ion Ratio Lower Upper

43 100

74 4.6 13.3 19.9#

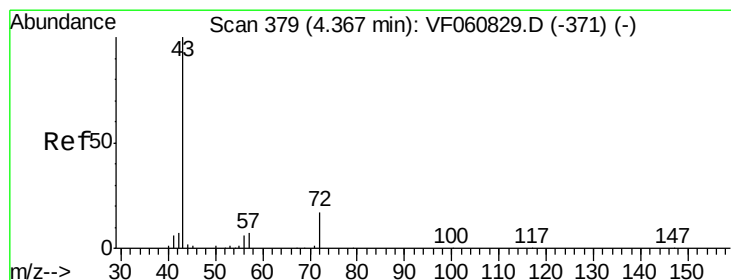
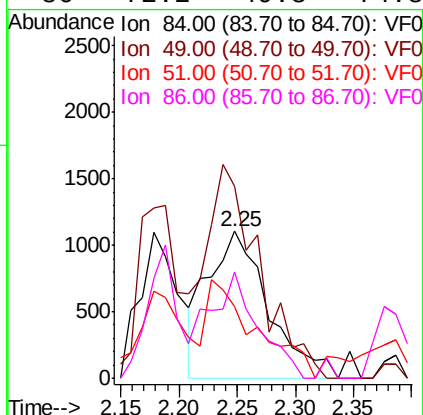
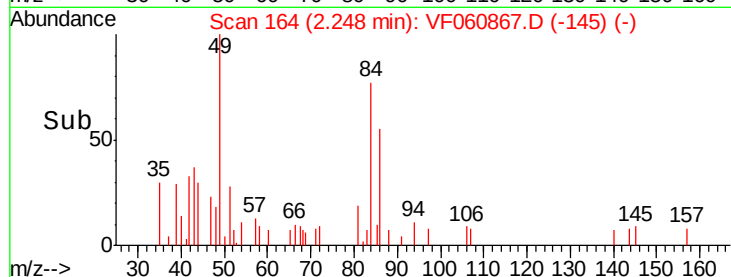
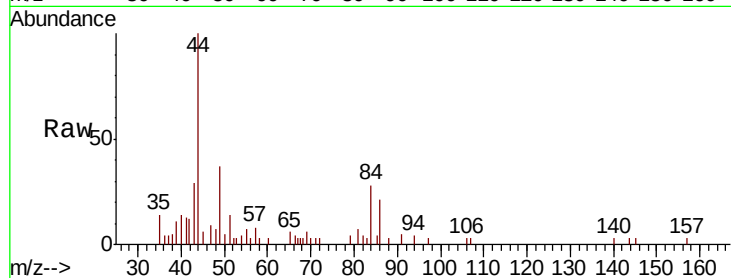




#20
Methvlene Chloride
Concen: 2.359 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060867.D
Acq: 29 Nov 2018 15:02

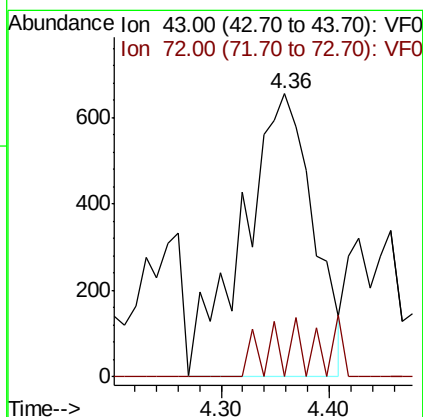
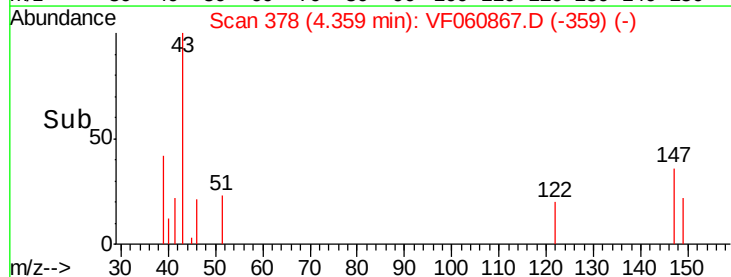
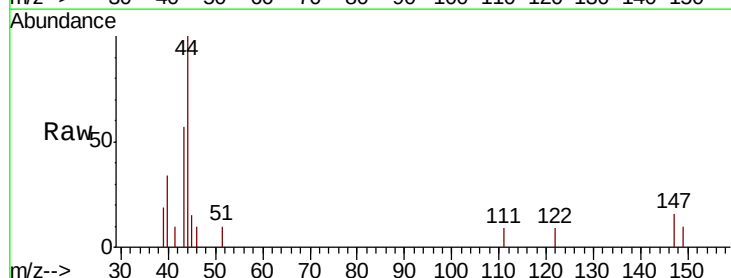
Instrument :
MSVOA_F
ClientSampleId :
VF1129SBL01

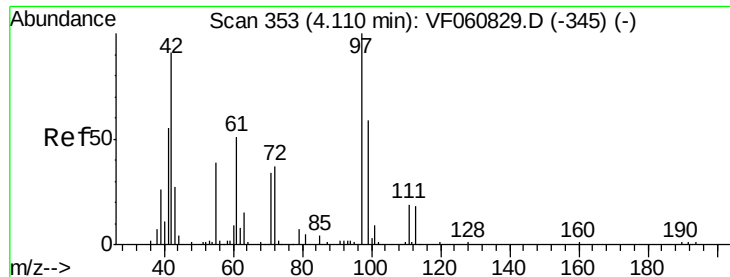
Tot Ion: 84 Resp: 4010
Ion Ratio Lower Upper
84 100
49 130.7 111.3 166.9
51 48.6 38.0 57.0
86 72.2 49.8 74.8



#25
2-Butanone
Concen: 3.689 ug/l
RT: 4.36 min Scan# 378
Delta R.T. -0.01 min
Lab File: VF060867.D
Acq: 29 Nov 2018 15:02

Tgt Ion: 43 Resp: 2957
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#





#29

Tetrahydrofuran

Concen: 3.102 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

VF1129SBL01

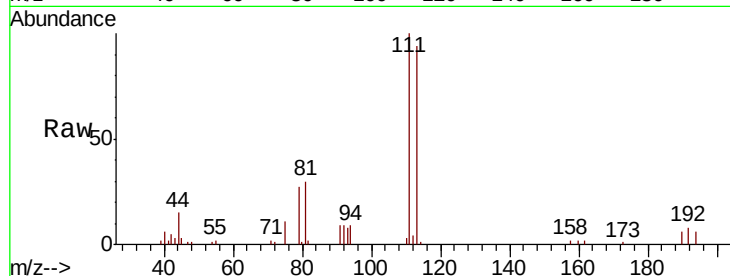
Tot Ion: 42 Resp: 1054

Ion Ratio Lower Upper

42 100

72 23.5 31.9 47.9#

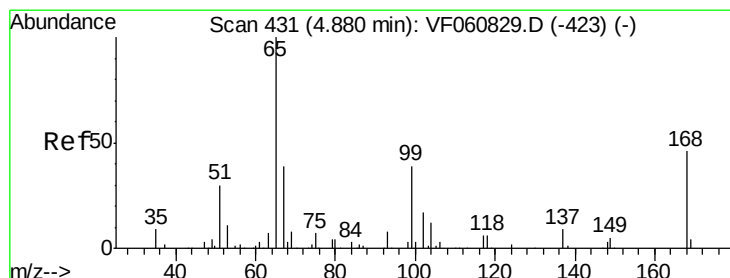
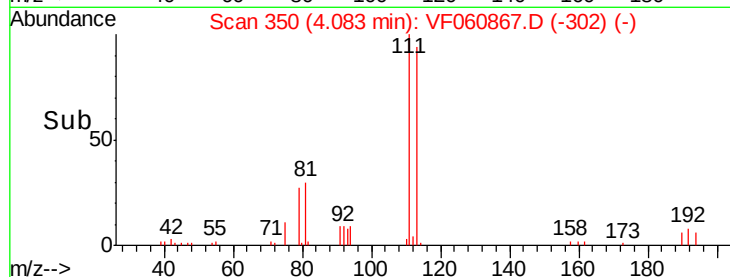
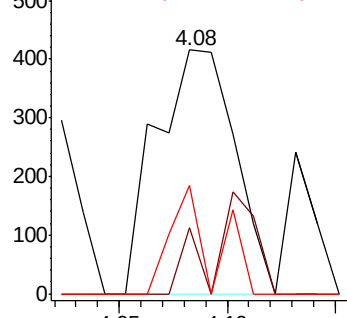
71 24.0 28.7 43.1#



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: 54.845 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060867.D

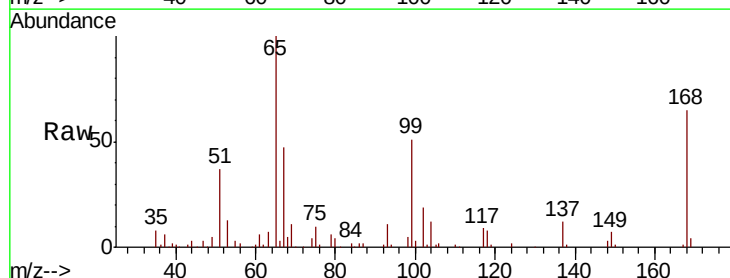
Acq: 29 Nov 2018 15:02

Tgt Ion: 65 Resp: 137831

Ion Ratio Lower Upper

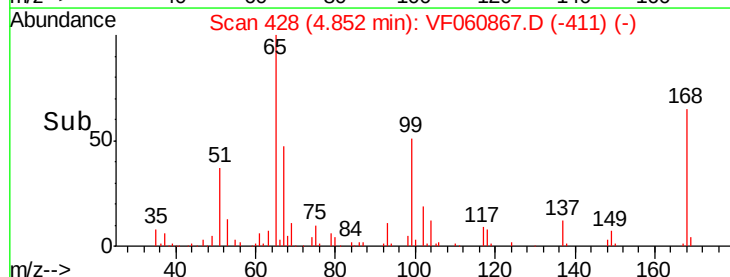
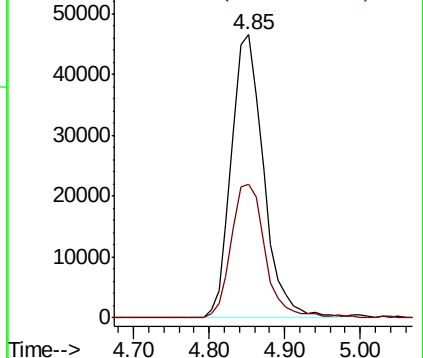
65 100

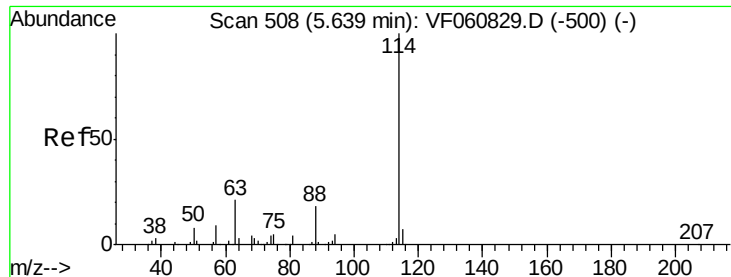
67 47.2 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

VF1129SBL01

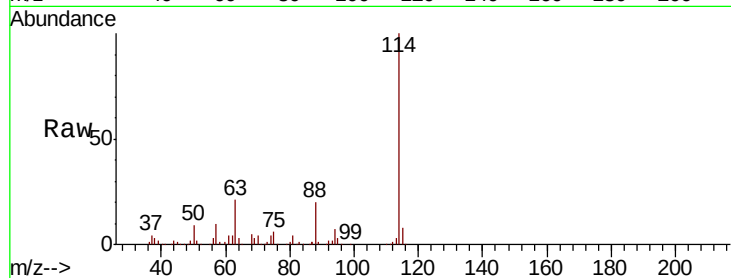
Tot Ion:114 Resp: 374804

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

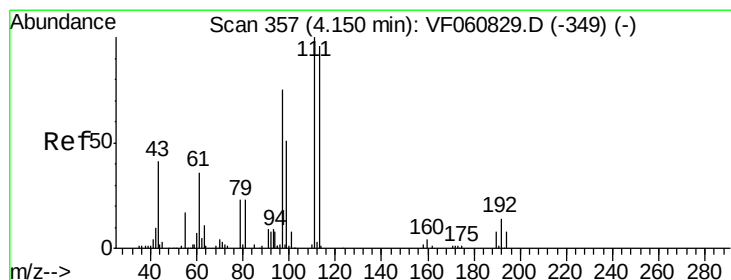
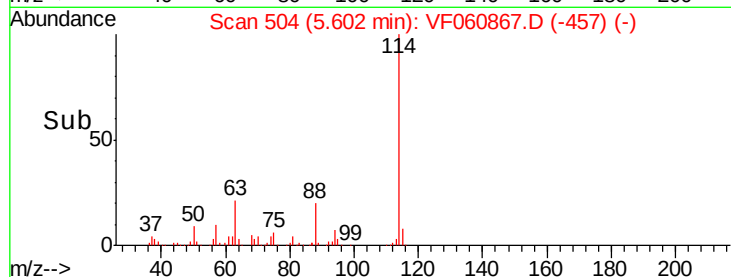
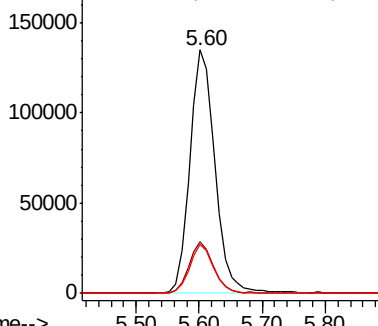
88 20.1 0.0 36.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 55.398 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

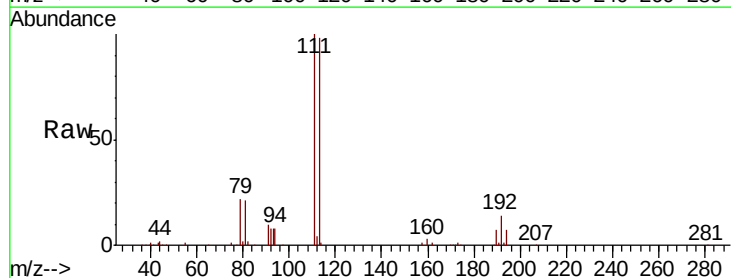
Tgt Ion:113 Resp: 164722

Ion Ratio Lower Upper

113 100

111 102.1 83.0 124.6

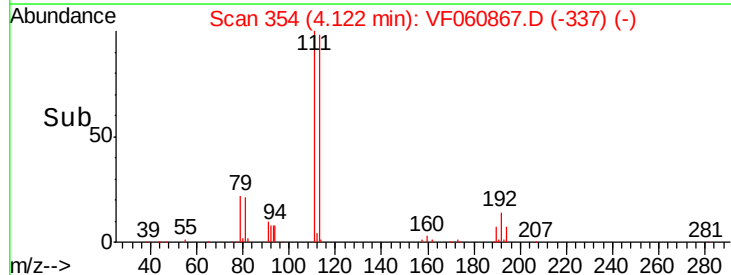
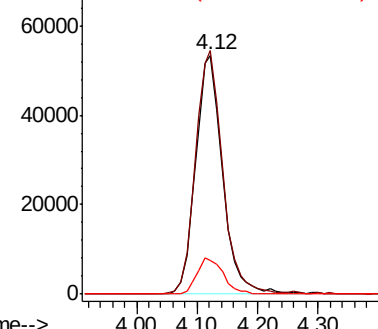
192 14.6 12.3 18.5

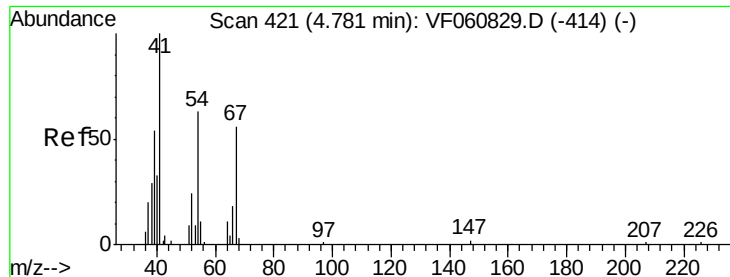


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

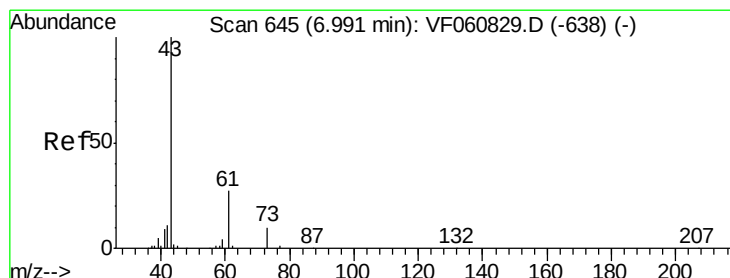
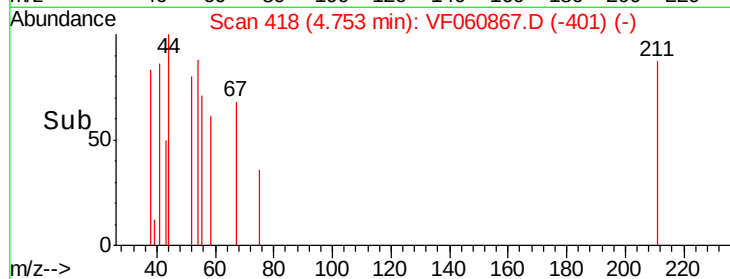
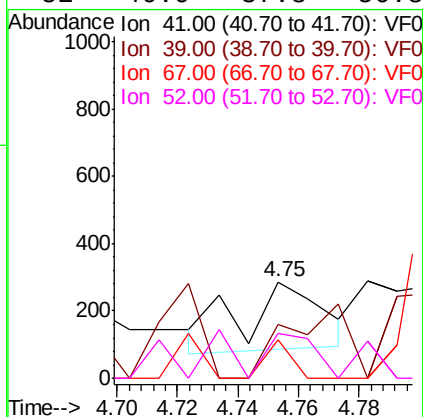
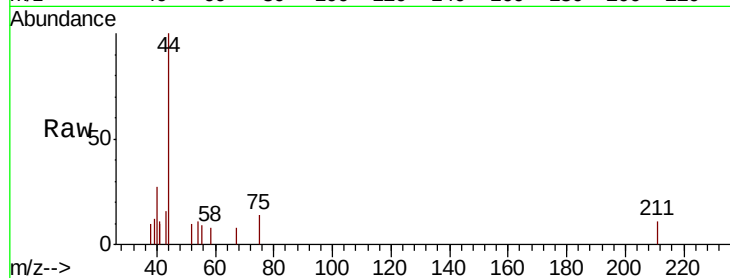




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF060867.D
Acq: 29 Nov 2018 15:02

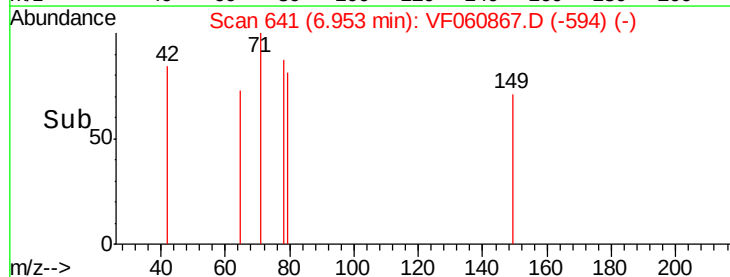
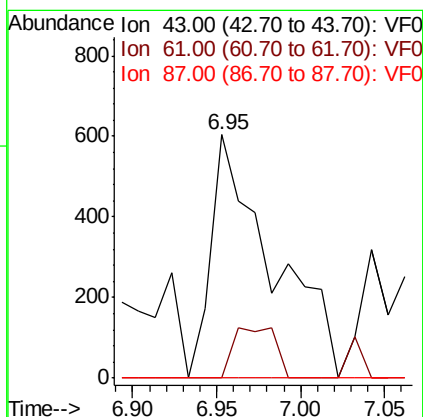
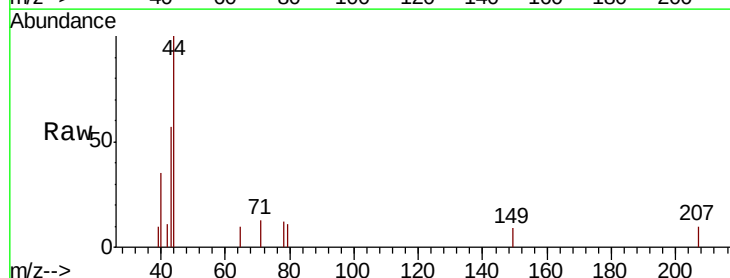
Instrument :
MSVOA_F
ClientSampleId :
VF1129SBL01

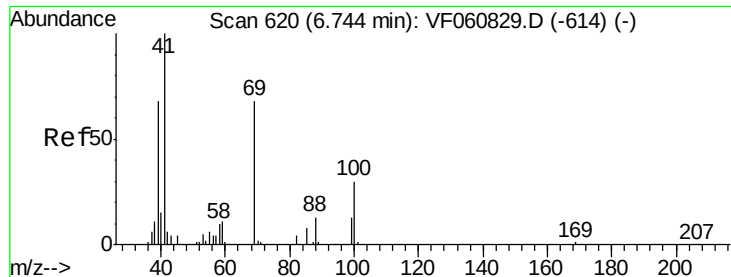
Tot Ion:	41	Resp:	369
Ion	Ratio	Lower	Upper
41	100		
39	56.3	53.0	79.6
67	39.9	43.8	65.6#
52	46.9	37.8	56.8



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.95 min Scan# 641
Delta R.T. -0.04 min
Lab File: VF060867.D
Acq: 29 Nov 2018 15:02

Tgt Ion:	43	Resp:	1523
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: 10.812 ug/l

RT: 6.74 min Scan# 619

Delta R.T. -0.01 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

VF1129SBL01

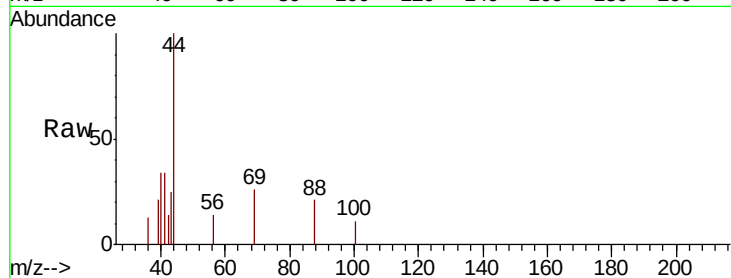
Tot Ion: 88 Resp: 121

Ion Ratio Lower Upper

88 100

43 120.1 42.0 63.0#

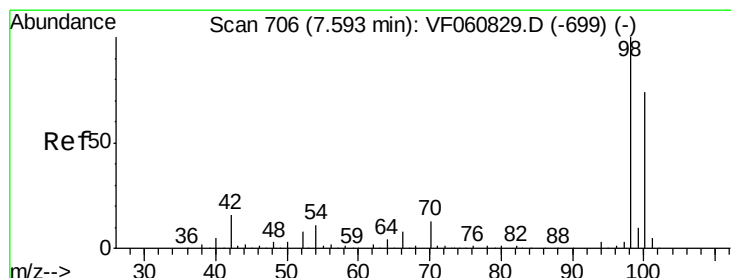
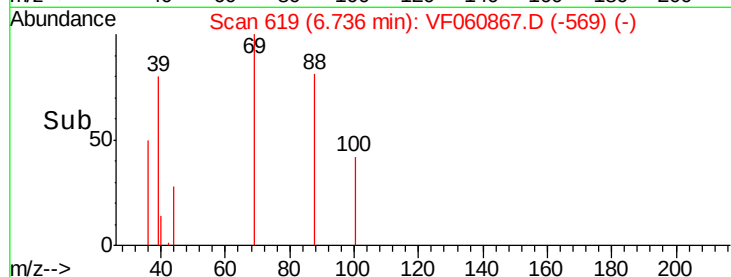
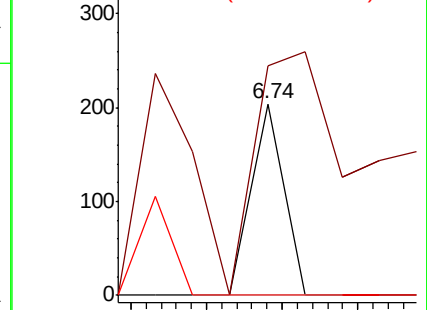
58 0.0 61.8 92.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 48.463 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF060867.D

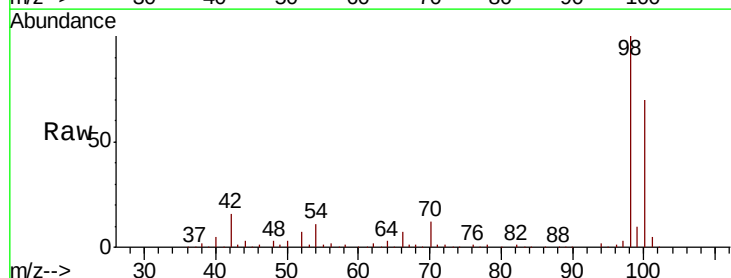
Acq: 29 Nov 2018 15:02

Tgt Ion: 98 Resp: 424476

Ion Ratio Lower Upper

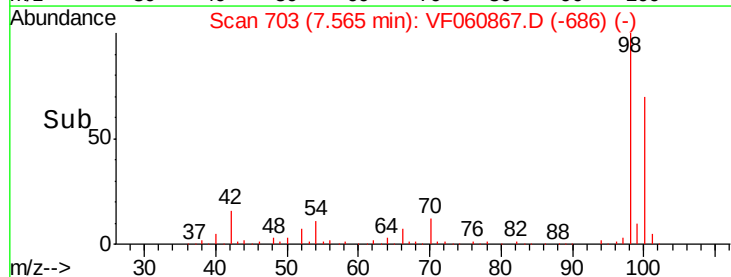
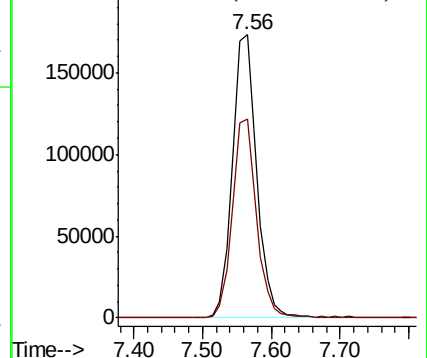
98 100

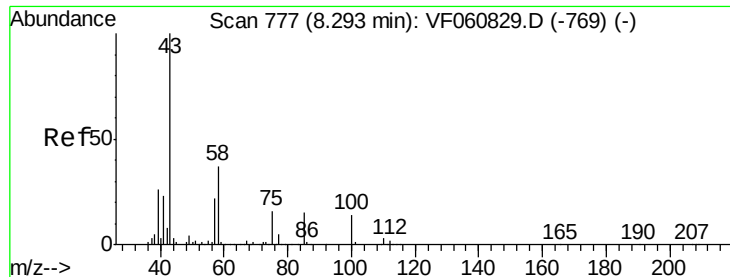
100 70.5 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 3.774 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

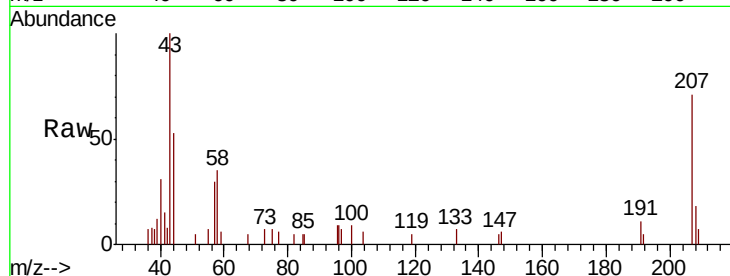
VF1129SBL01

Tot Ion: 43 Resp: 5880

Ion Ratio Lower Upper

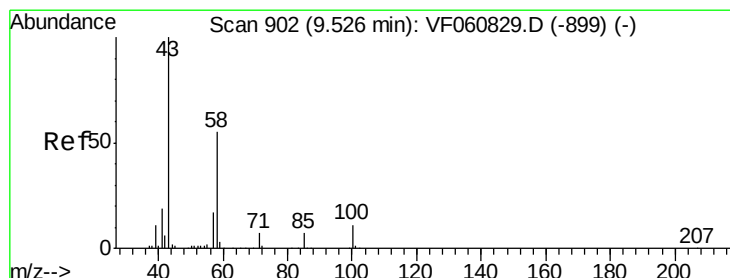
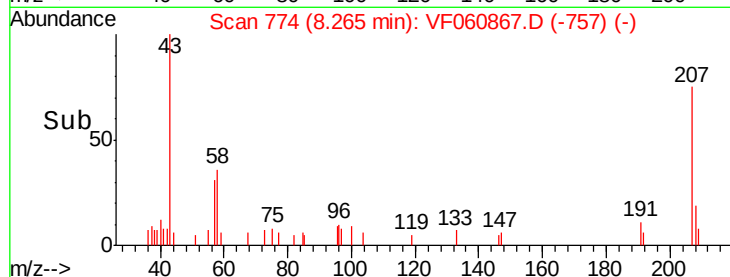
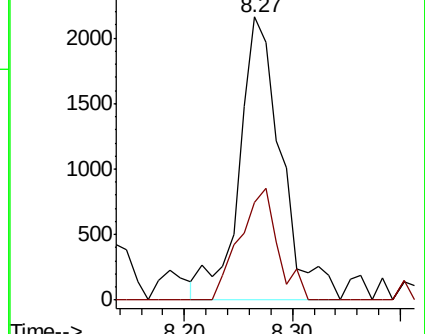
43 100

58 34.6 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 6.756 ug/l

RT: 9.50 min Scan# 899

Delta R.T. -0.03 min

Lab File: VF060867.D

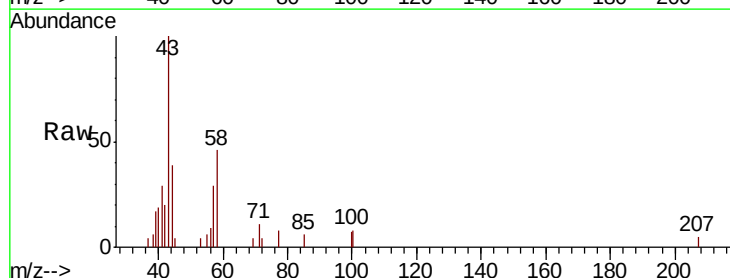
Acq: 29 Nov 2018 15:02

Tgt Ion: 43 Resp: 7384

Ion Ratio Lower Upper

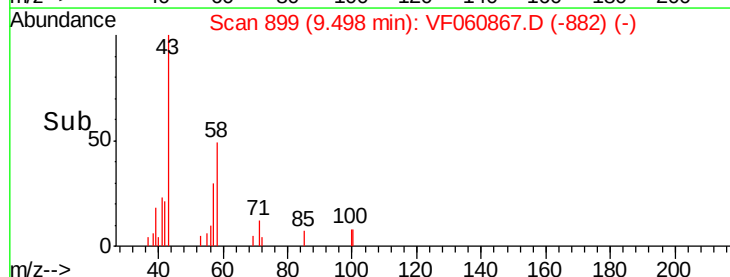
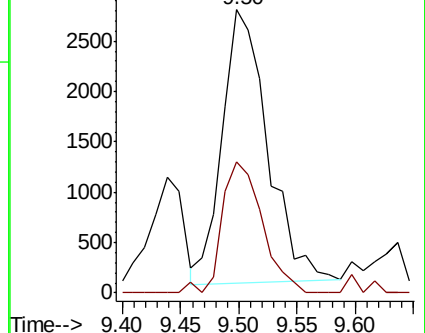
43 100

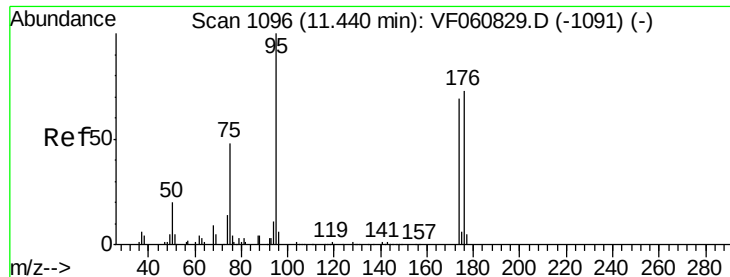
58 46.1 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

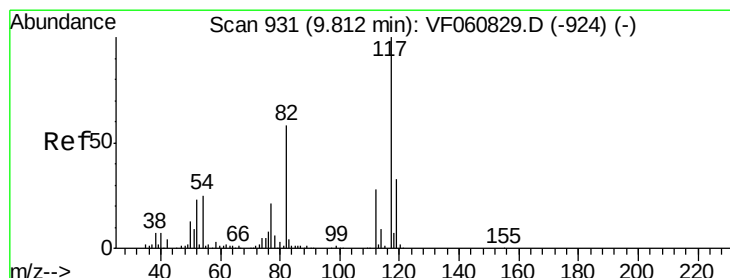
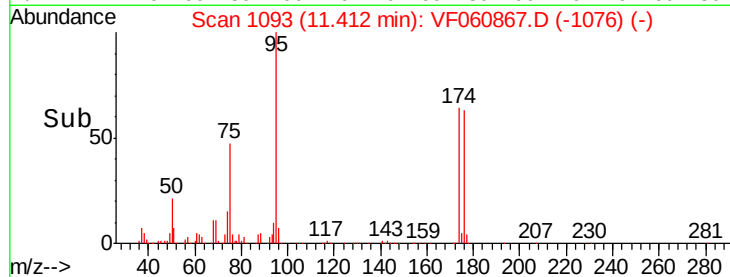
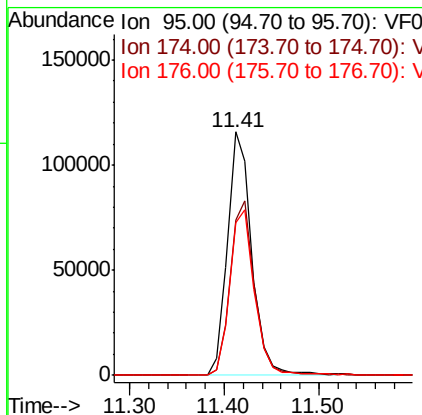
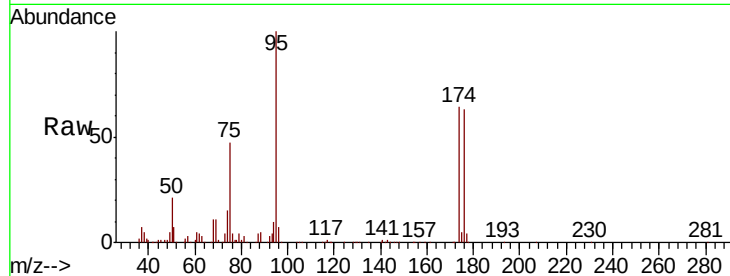




#62
4-Bromofluorobenzene
Concen: 52.057 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF060867.D
Acq: 29 Nov 2018 15:02

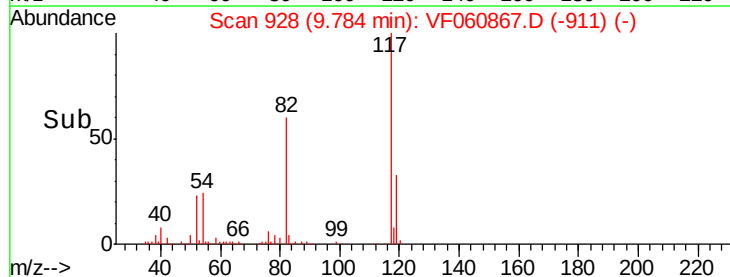
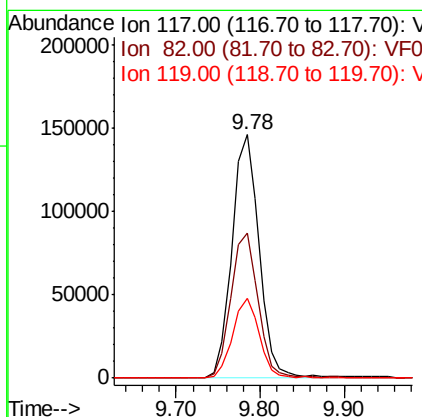
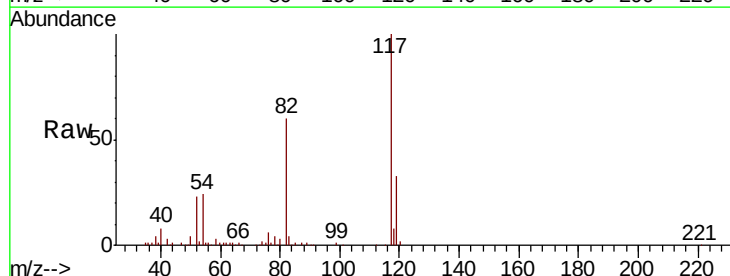
Instrument :
MSVOA_F
ClientSampleId :
VF1129SBL01

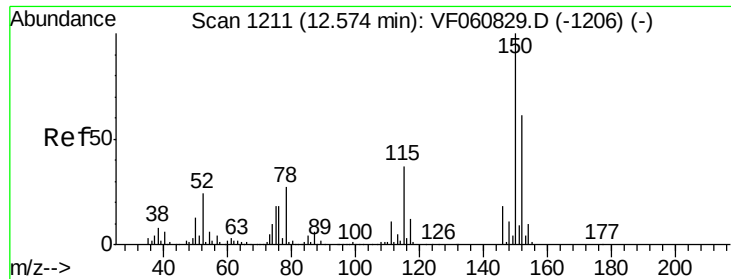
Tot Ion: 95 Resp: 207224
Ion Ratio Lower Upper
95 100
174 63.8 0.0 138.2
176 62.7 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060867.D
Acq: 29 Nov 2018 15:02

Tgt Ion: 117 Resp: 329588
Ion Ratio Lower Upper
117 100
82 59.8 46.6 69.8
119 33.0 26.4 39.6

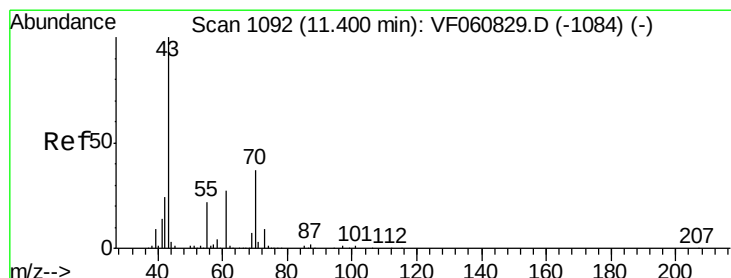
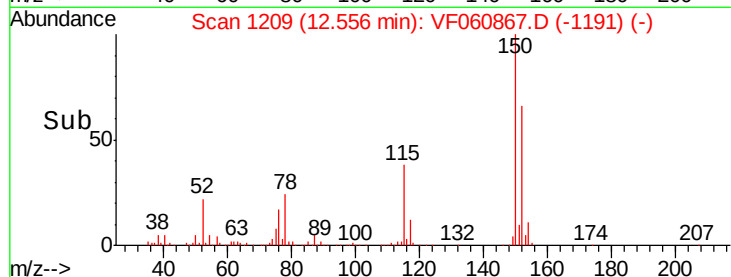
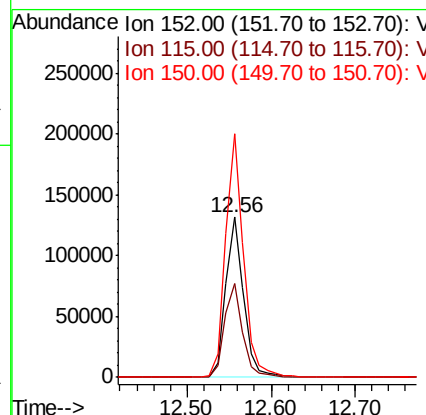
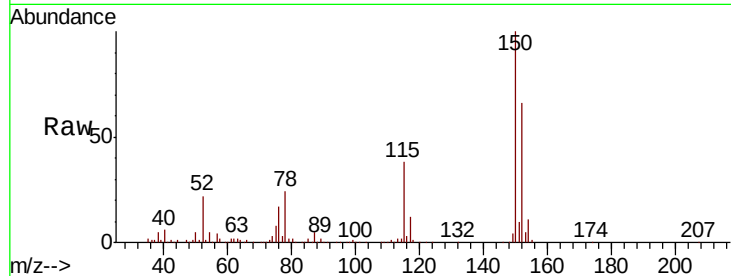




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.56 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF060867.D
 Acq: 29 Nov 2018 15:02

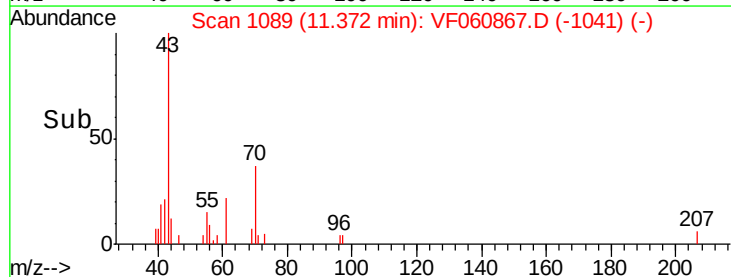
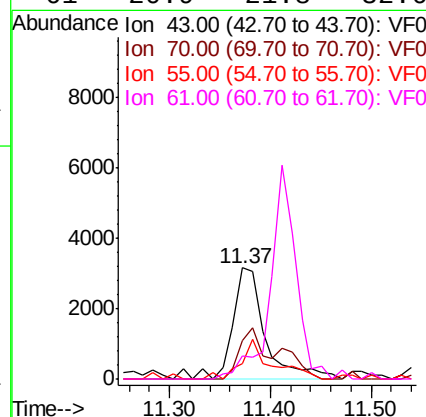
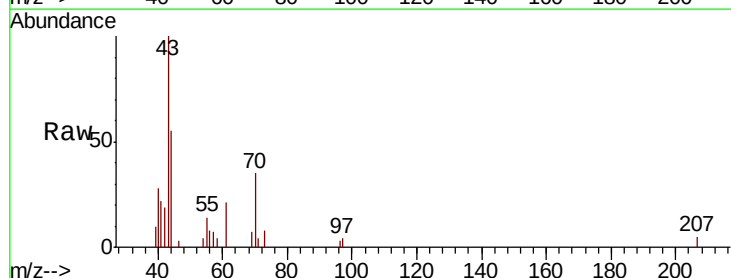
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1129SBL01

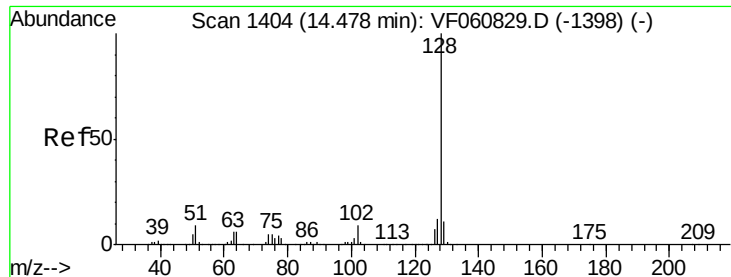
Tot Ion:152 Resp: 194932
 Ion Ratio Lower Upper
 152 100
 115 58.4 30.1 90.5
 150 152.1 0.0 327.6



#74
 N-ethyl acetate
 Concen: 1.988 ug/l
 RT: 11.37 min Scan# 1089
 Delta R.T. -0.03 min
 Lab File: VF060867.D
 Acq: 29 Nov 2018 15:02

Tgt Ion: 43 Resp: 7073
 Ion Ratio Lower Upper
 43 100
 70 35.0 29.6 44.4
 55 14.1 17.2 25.8#
 61 20.9 21.8 32.6#





#95
Naphthalene
Concen: Below Cal
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060867.D
Acq: 29 Nov 2018 15:02

Instrument :
MSVOA_F
ClientSampleId :
VF1129SBL01

Tot Ion:128	Resp:	14969
Ion	Ratio	Lower Upper
128	100	
127	11.3	9.9 14.9
129	9.2	9.1 13.7

