

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120718\
 Data File : VF060934.D
 Acq On : 7 Dec 2018 17:03
 Operator : VA/AP
 Sample : VF1207SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1207SBL01

Quant Time: Dec 08 01:55:57 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	4.85	168	192790	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	341986	50.00	ug/l	-0.06
63) Chlorobenzene-d5	9.76	117	313173	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	182925	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	134759	59.34	ug/l	-0.06
Spiked Amount			Recovery	=	118.68%	
35) Dibromofluoromethane	4.10	113	149167	54.98	ug/l	-0.05
Spiked Amount			Recovery	=	109.96%	
50) Toluene-d8	7.54	98	384339	48.09	ug/l	-0.05
Spiked Amount			Recovery	=	96.18%	
62) 4-Bromofluorobenzene	11.40	95	191867	52.82	ug/l	-0.04
Spiked Amount			Recovery	=	105.64%	

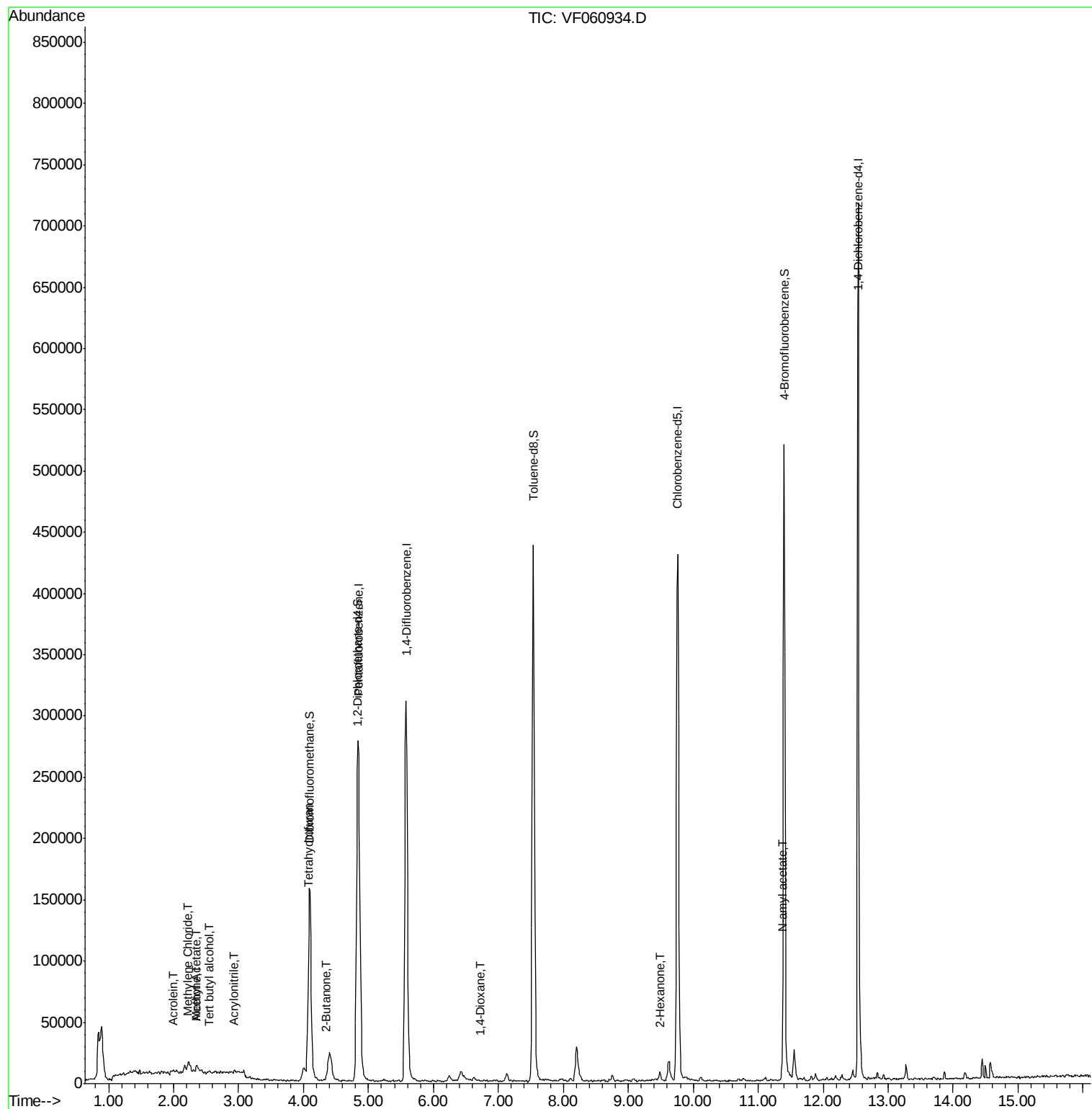
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	293	3.147	ug/l #	1
13) Acrolein	1.98	56	353	4.002	ug/l #	1
15) Acrylonitrile	2.94	53	1091	5.227	ug/l #	81
16) Acetone	2.36	43	2025	4.835	ug/l	96
18) Methyl Acetate	2.36	43	2925	2.598	ug/l #	61
20) Methylene Chloride	2.23	84	4281	2.786	ug/l #	96
25) 2-Butanone	4.34	43	1607	2.218	ug/l #	88
29) Tetrahydrofuran	4.07	42	556	1.811	ug/l #	77
41) Methacrylonitrile	4.72	41	632	Below Cal	#	52
43) Isopropyl Acetate	6.94	43	1154	Below Cal	#	49
49) 1,4-Dioxane	6.73	88	75	7.345	ug/l #	1
59) 2-Hexanone	9.48	43	5843	5.859	ug/l	80
74) N-amyl acetate	11.37	43	5525	1.655	ug/l #	90
95) Naphthalene	14.45	128	9635	Below Cal		99

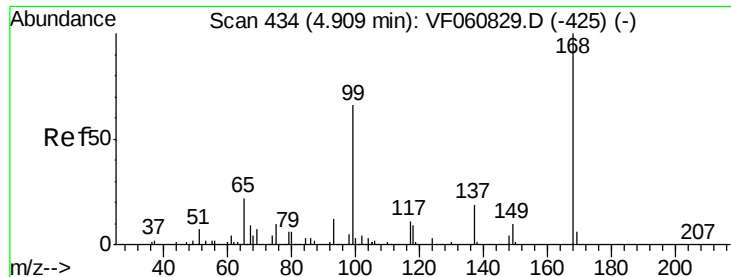
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF120718\
Data File : VF060934.D
Acq On : 7 Dec 2018 17:03
Operator : VA/AP
Sample : VF1207SBL01
Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1207SBL01

Quant Time: Dec 08 01:55:57 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
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: 4.85 min Scan# 428

Delta R.T. -0.06 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

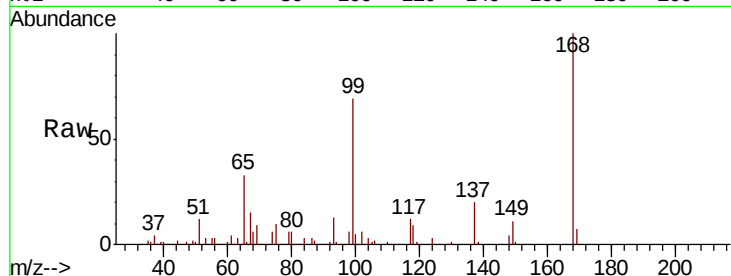
VF1207SBL01

Tot Ion:168 Resp: 192790

Ion Ratio Lower Upper

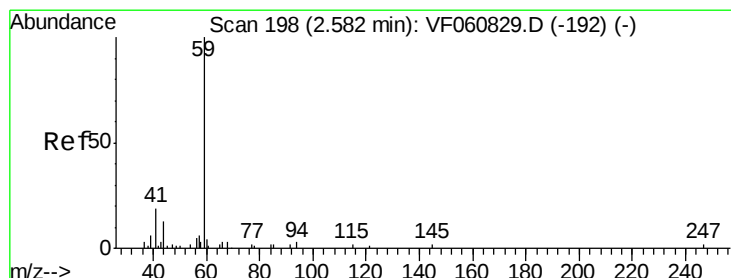
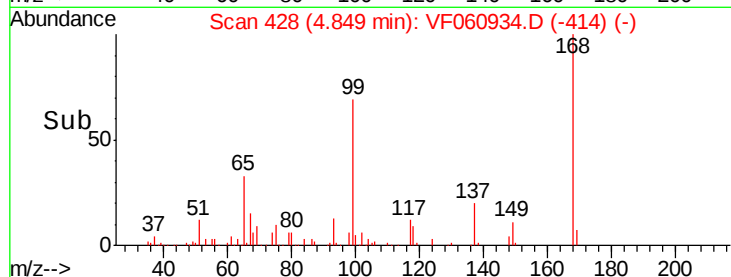
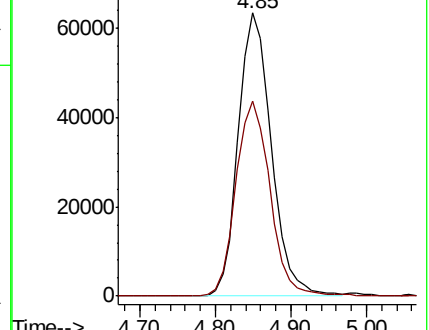
168 100

99 68.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 3.147 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF060934.D

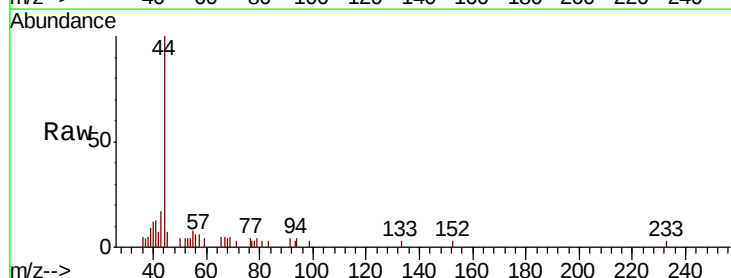
Acq: 7 Dec 2018 17:03

Tgt Ion: 59 Resp: 293

Ion Ratio Lower Upper

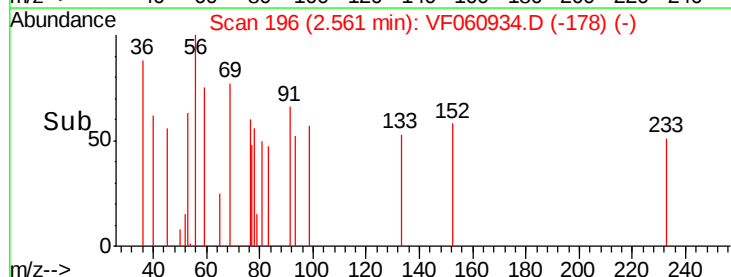
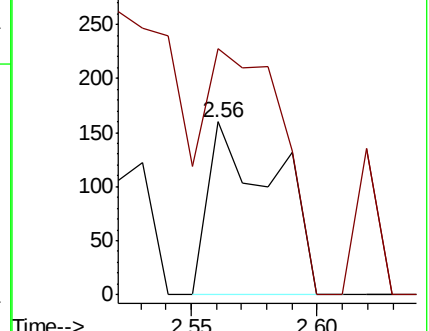
59 100

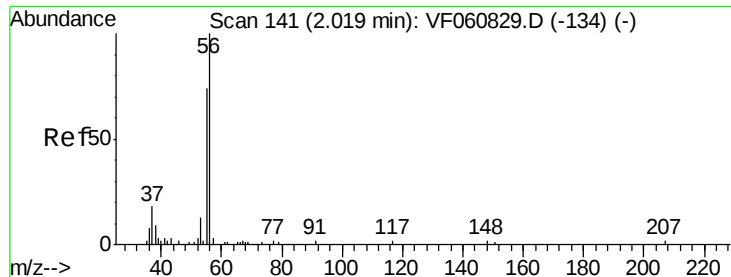
57 142.5 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 4.002 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.04 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

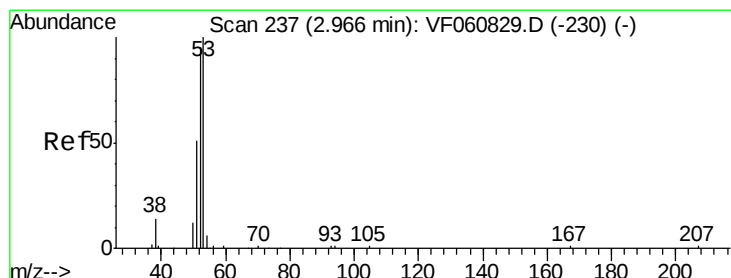
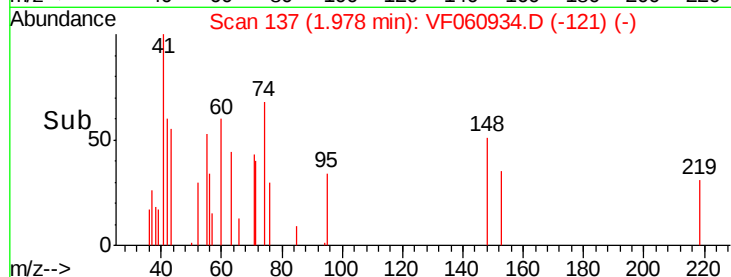
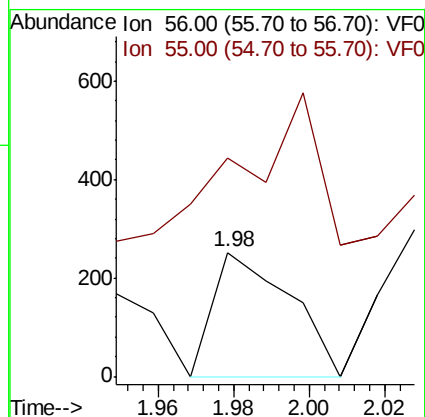
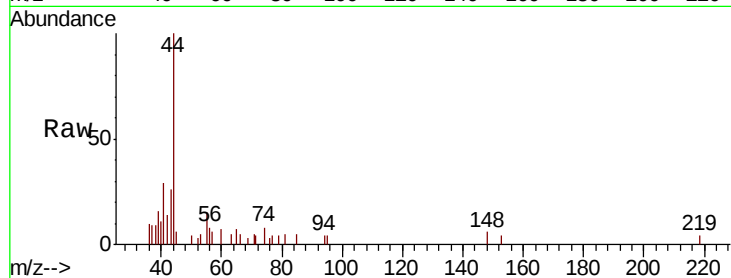
VF1207SBL01

Tot Ion: 56 Resp: 353

Ion Ratio Lower Upper

56 100

55 176.2 61.2 91.8#



#15

Acrylonitrile

Concen: 5.227 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

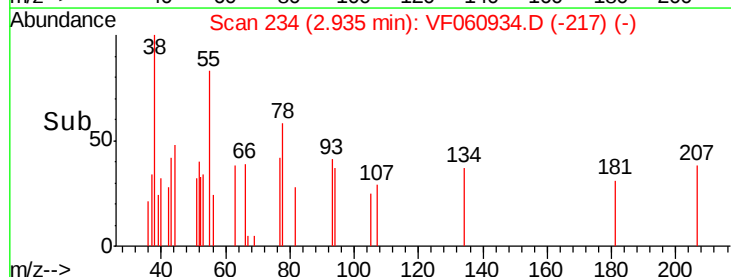
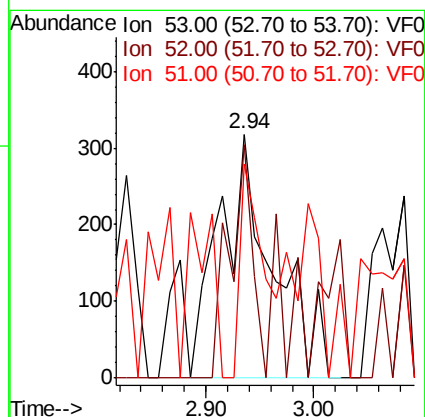
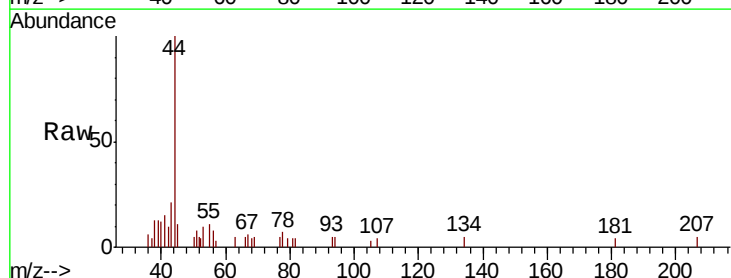
Tgt Ion: 53 Resp: 1091

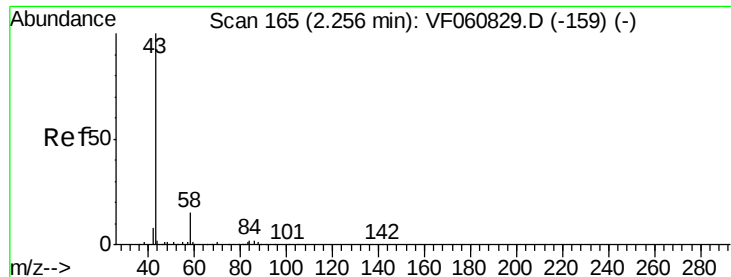
Ion Ratio Lower Upper

53 100

52 95.9 76.5 114.7

51 87.7 40.7 61.1#





#16

Acetone

Concen: 4.835 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.11 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

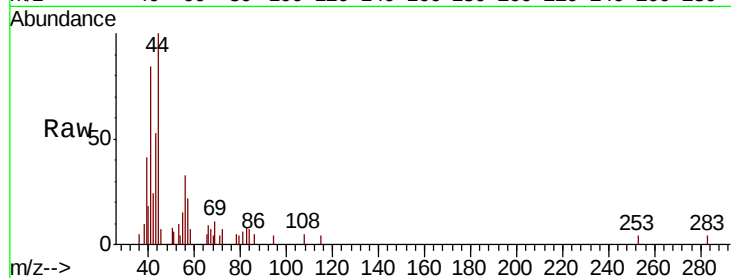
VF1207SBL01

Tot Ion: 43 Resp: 2025

Ion Ratio Lower Upper

43 100

58 12.5 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1500

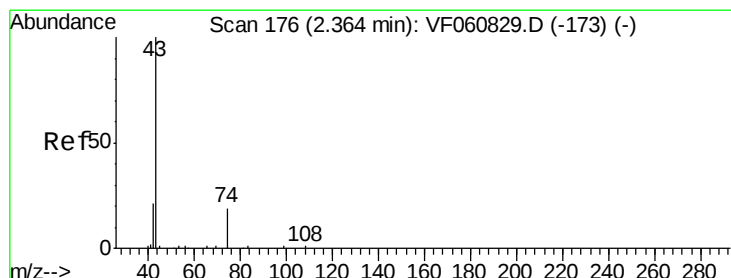
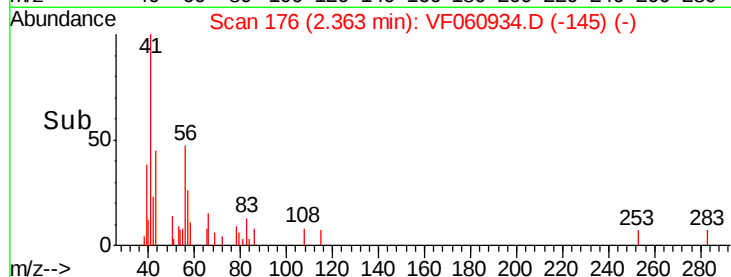
1000

500

0

2.32 2.34 2.36 2.38 2.40

Time-->



#18

Methyl Acetate

Concen: 2.598 ug/l

RT: 2.36 min Scan# 176

Delta R.T. -0.00 min

Lab File: VF060934.D

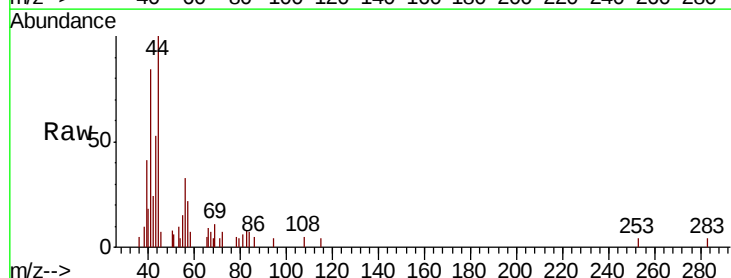
Acq: 7 Dec 2018 17:03

Tgt Ion: 43 Resp: 2925

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

1500

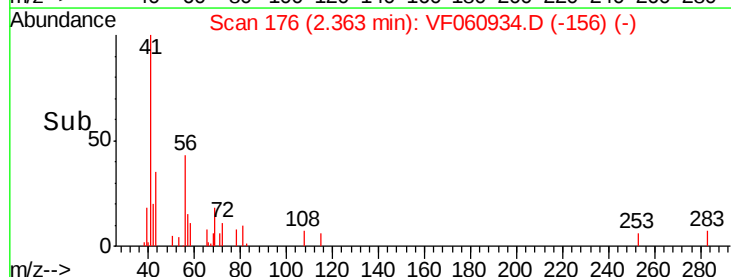
1000

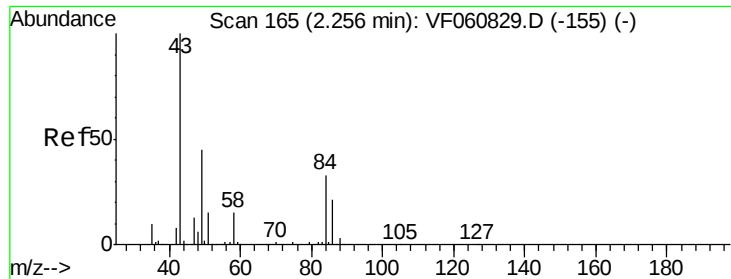
500

0

2.30 2.35 2.40 2.45

Time-->





#20

Methvlene Chloride

Concen: 2.786 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

VF1207SBL01

Tot Ion: 84 Resp: 4281

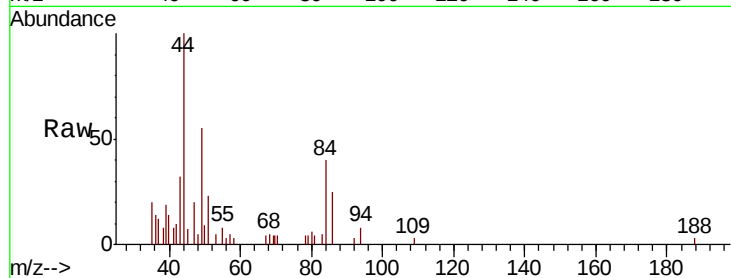
Ion Ratio Lower Upper

84 100

49 137.0 111.3 166.9

51 58.4 38.0 57.0#

86 62.7 49.8 74.8

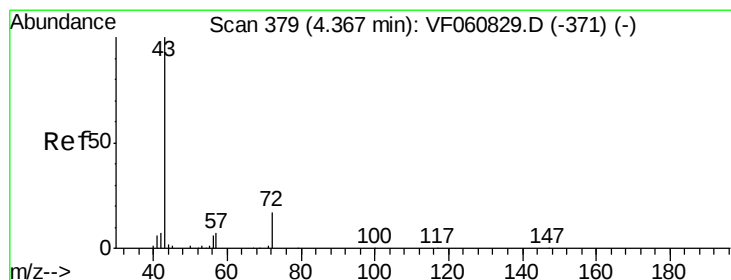
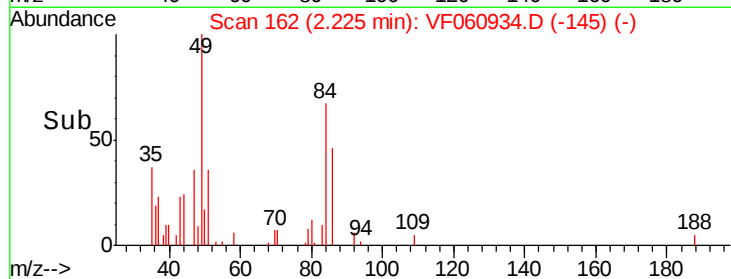
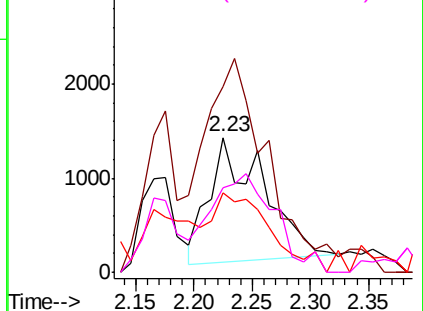


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 2.218 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060934.D

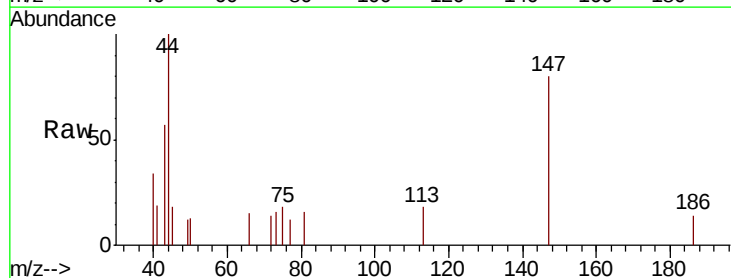
Acq: 7 Dec 2018 17:03

Tgt Ion: 43 Resp: 1607

Ion Ratio Lower Upper

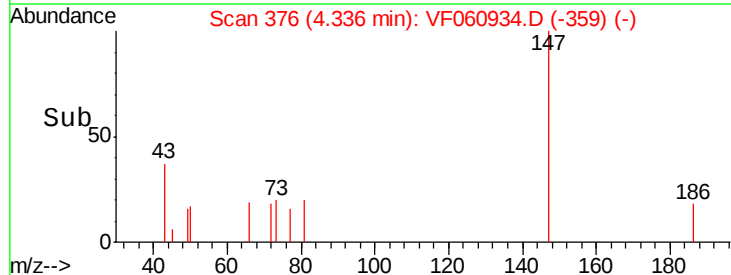
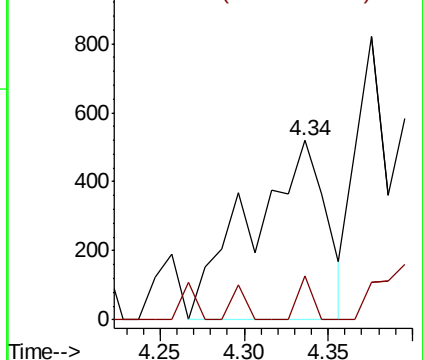
43 100

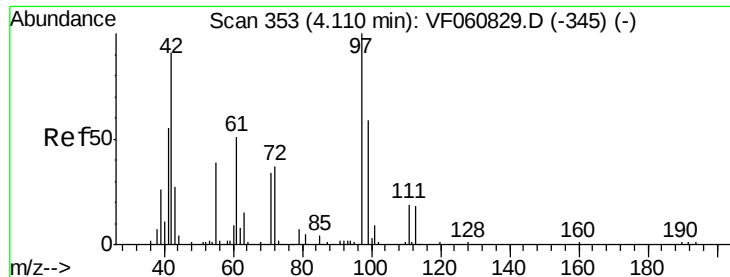
72 24.7 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.811 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

VF1207SBL01

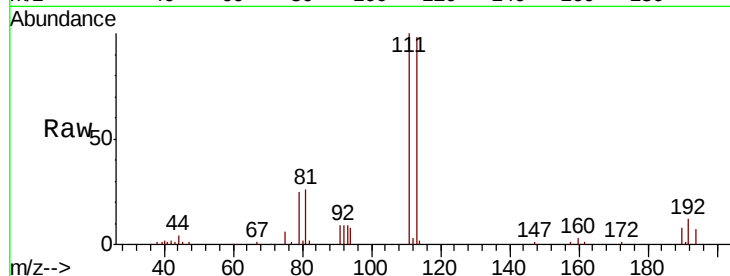
Tot Ion: 42 Resp: 556

Ion Ratio Lower Upper

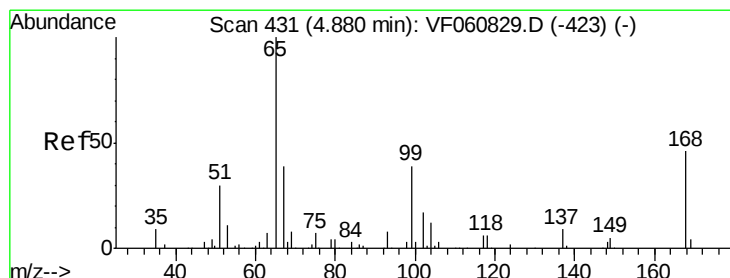
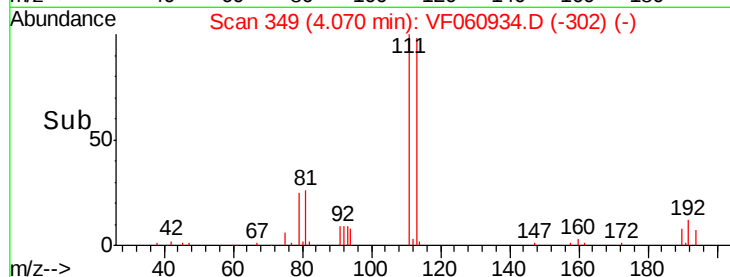
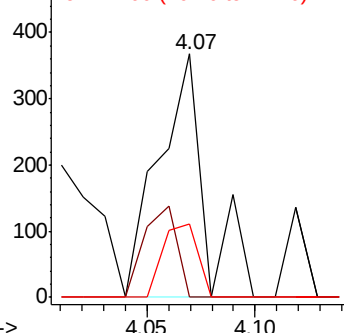
42 100

72 25.9 31.9 47.9#

71 22.5 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: 59.336 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.06 min

Lab File: VF060934.D

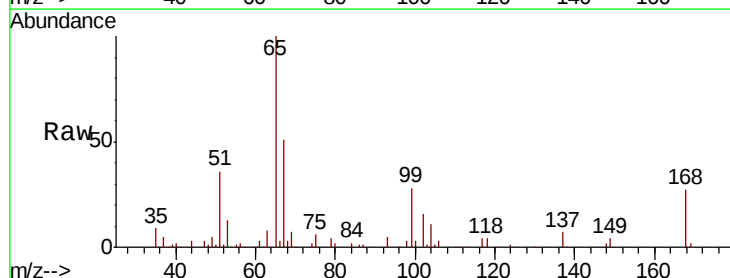
Acq: 7 Dec 2018 17:03

Tgt Ion: 65 Resp: 134759

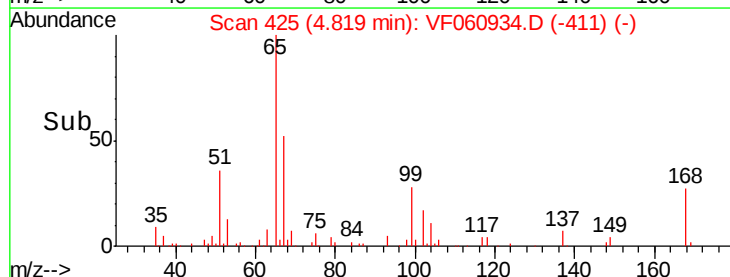
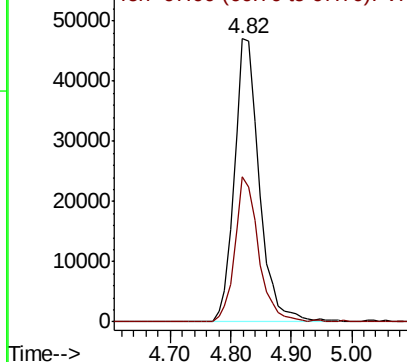
Ion Ratio Lower Upper

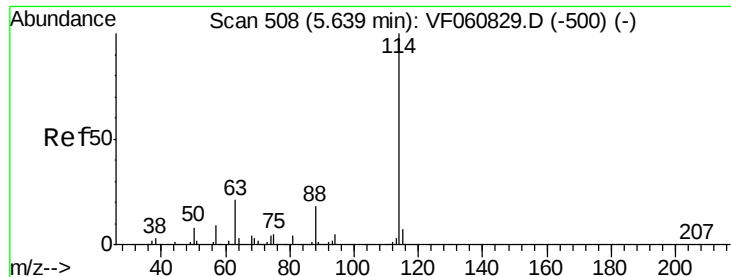
65 100

67 51.4 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: 5.58 min Scan# 502

Delta R.T. -0.06 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

VF1207SBL01

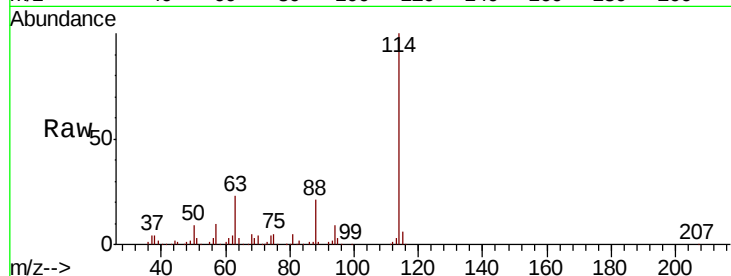
Tot Ion:114 Resp: 341986

Ion Ratio Lower Upper

114 100

63 23.0 0.0 41.6

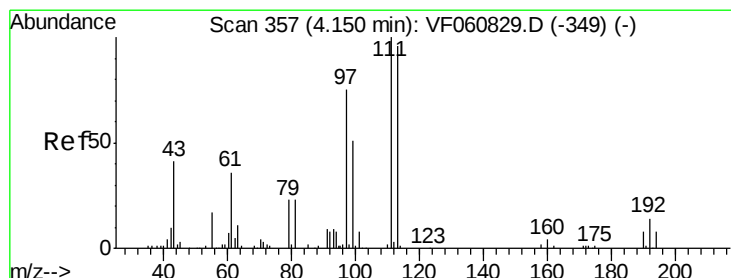
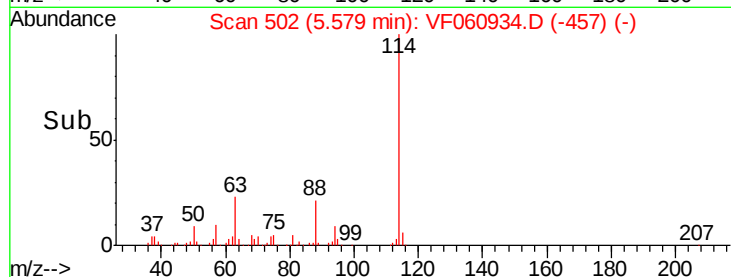
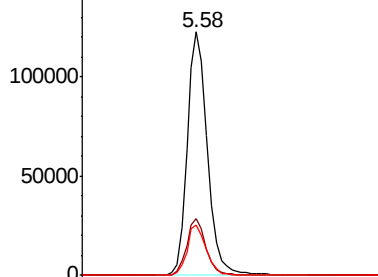
88 20.6 0.0 36.6



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: 54.981 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

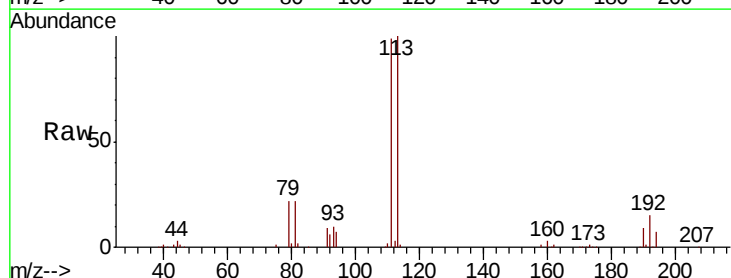
Tgt Ion:113 Resp: 149167

Ion Ratio Lower Upper

113 100

111 98.7 83.0 124.6

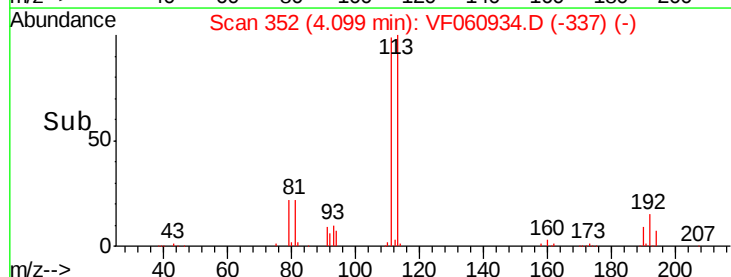
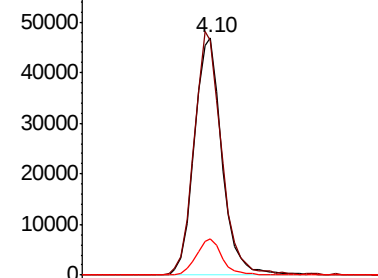
192 15.5 12.3 18.5

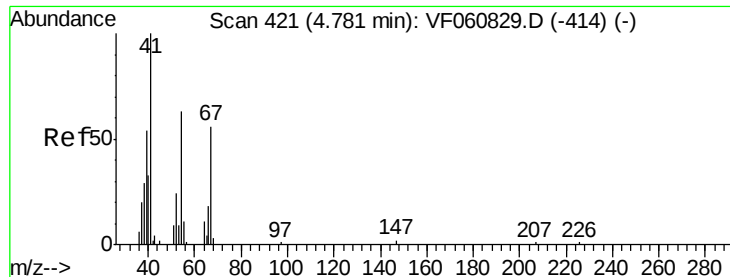


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

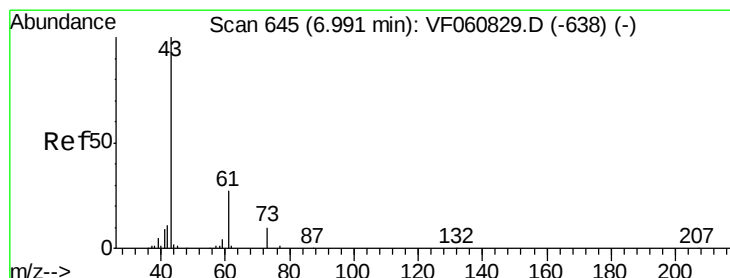
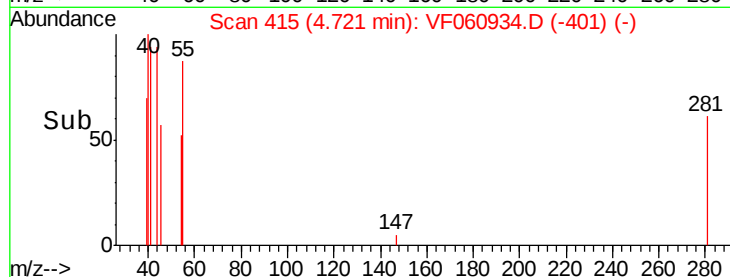
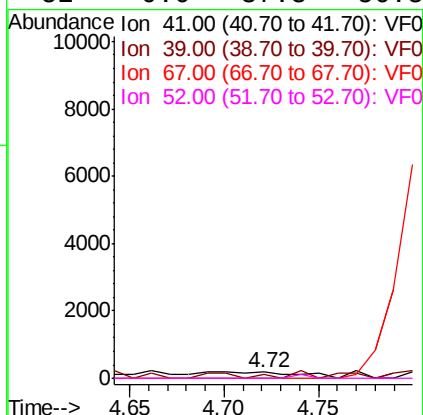
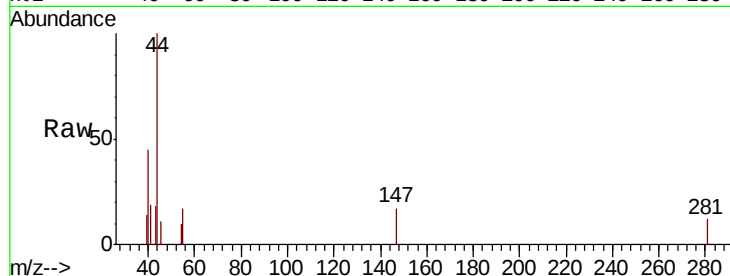




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.72 min Scan# 415
Delta R.T. -0.06 min
Lab File: VF060934.D
Acq: 7 Dec 2018 17:03

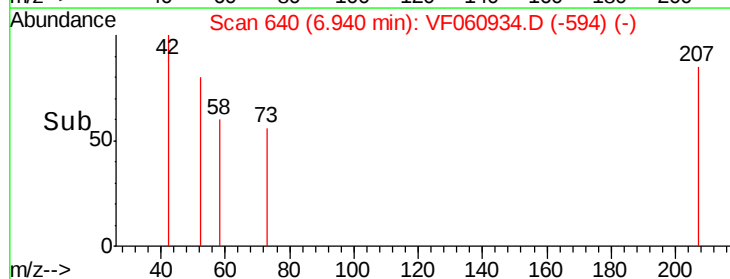
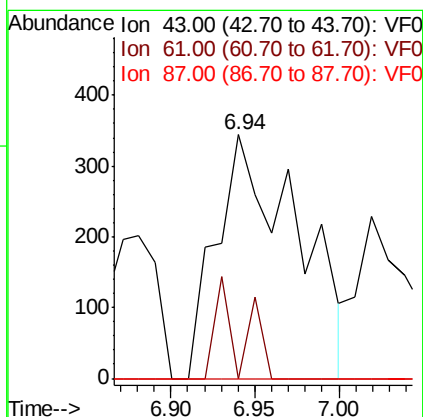
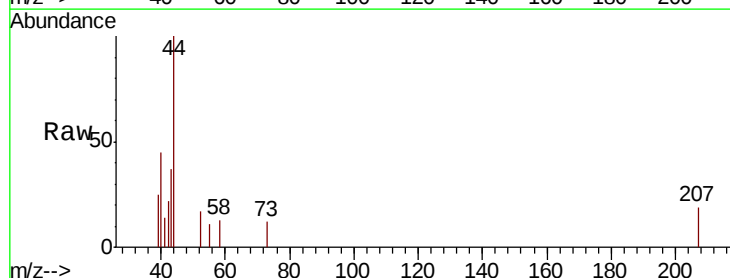
Instrument :
MSVOA_F
ClientSampleId :
VF1207SBL01

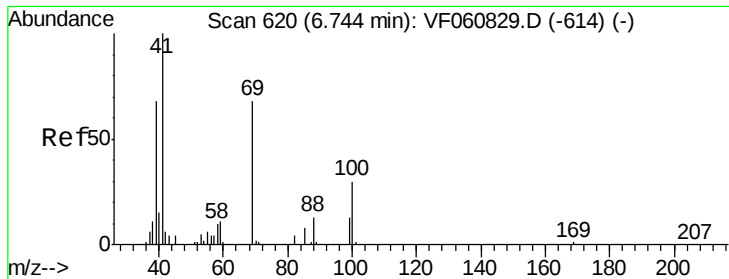
Tot Ion: 41 Resp: 632
Ion Ratio Lower Upper
41 100
39 73.9 53.0 79.6
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.94 min Scan# 640
Delta R.T. -0.05 min
Lab File: VF060934.D
Acq: 7 Dec 2018 17:03

Tgt Ion: 43 Resp: 1154
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: 7.345 ug/l

RT: 6.73 min Scan# 619

Delta R.T. -0.01 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

VF1207SBL01

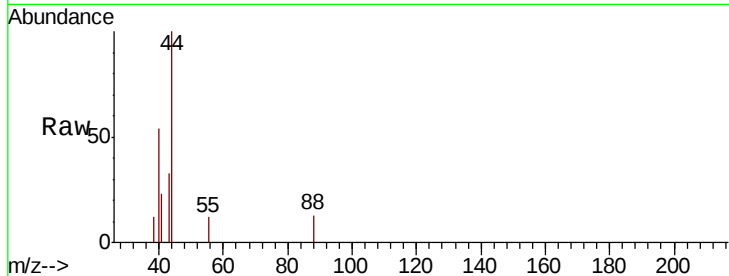
Tot Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 250.8 42.0 63.0#

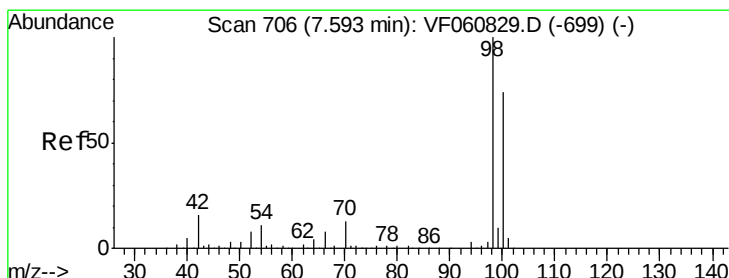
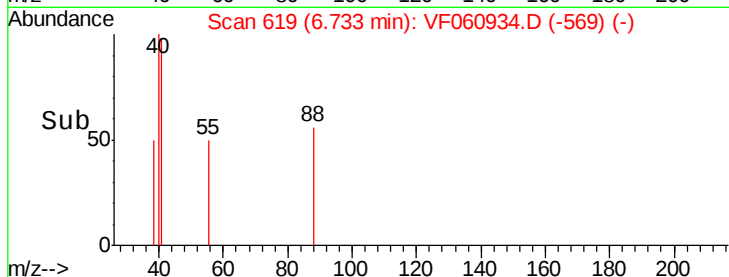
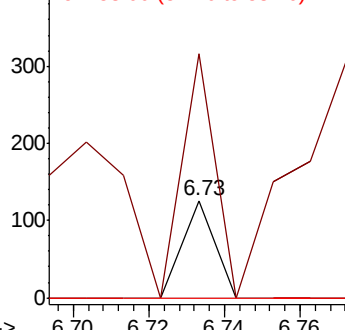
58 0.0 61.8 92.8#



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: 48.091 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.05 min

Lab File: VF060934.D

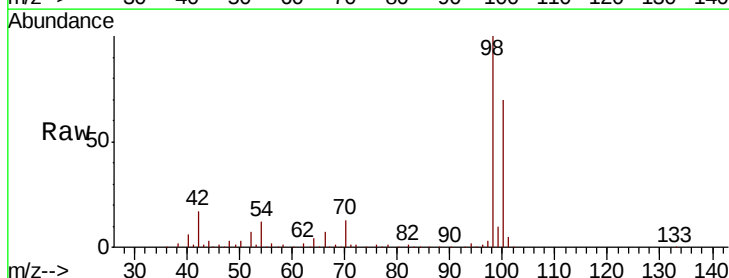
Acq: 7 Dec 2018 17:03

Tgt Ion: 98 Resp: 384339

Ion Ratio Lower Upper

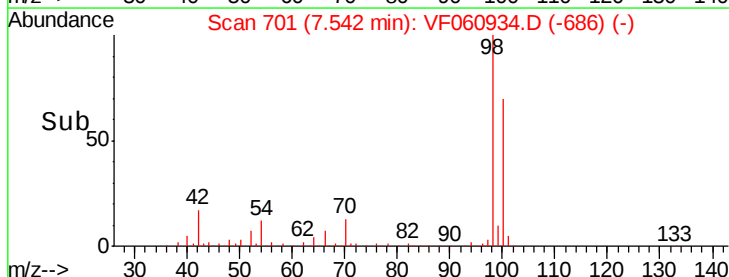
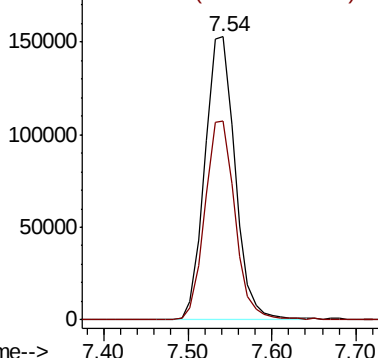
98 100

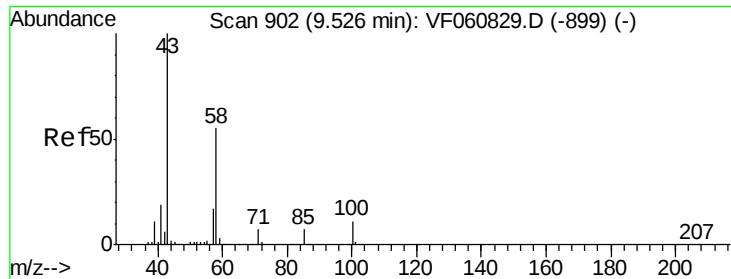
100 70.3 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

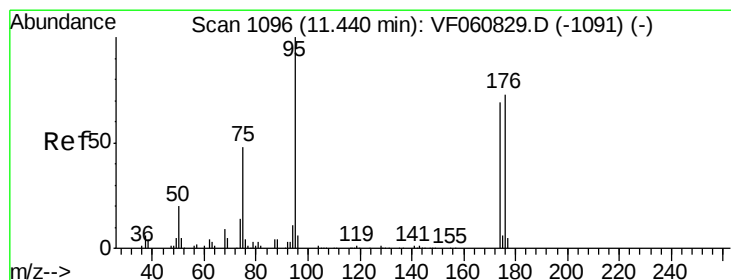
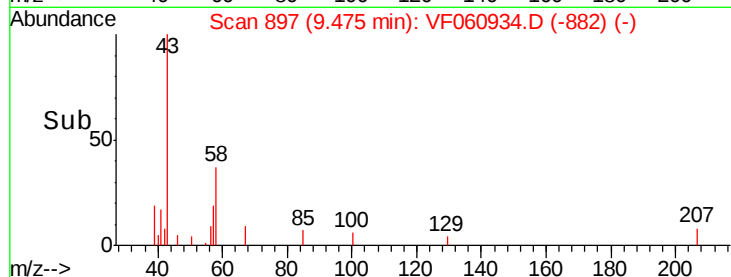
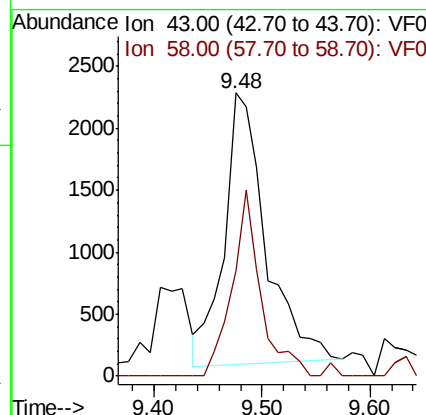
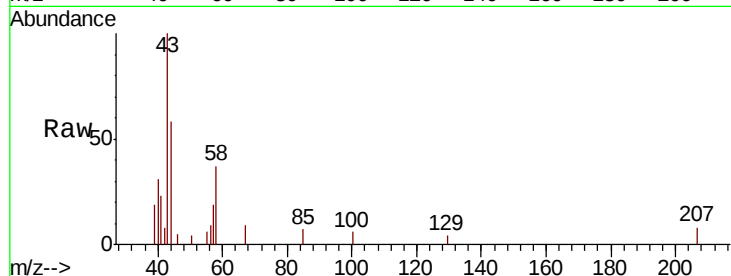




#59
2-Hexanone
Concen: 5.859 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.05 min
Lab File: VF060934.D
Acq: 7 Dec 2018 17:03

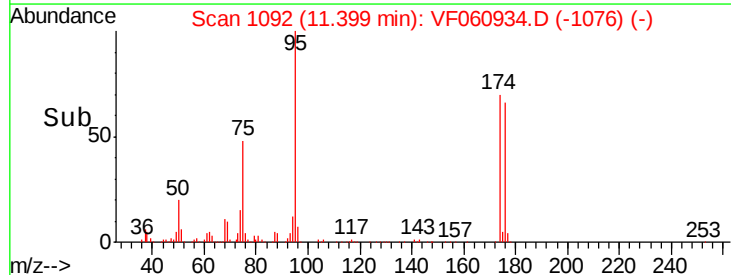
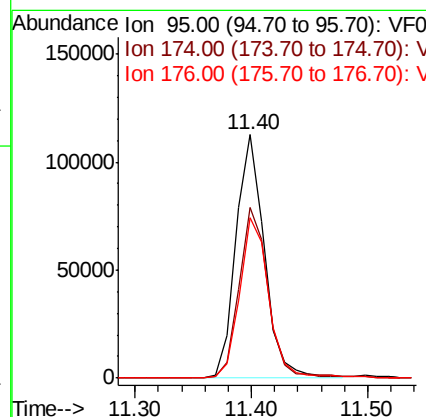
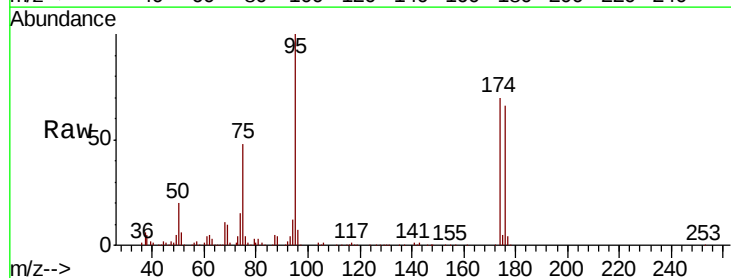
Instrument :
MSVOA_F
ClientSampleId :
VF1207SBL01

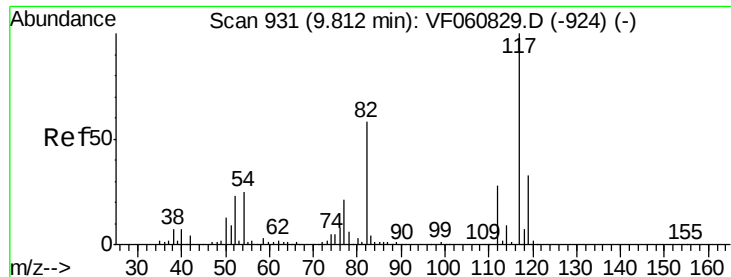
Tot Ion: 43 Resp: 5843
Ion Ratio Lower Upper
43 100
58 37.1 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 52.824 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.04 min
Lab File: VF060934.D
Acq: 7 Dec 2018 17:03

Tgt Ion: 95 Resp: 191867
Ion Ratio Lower Upper
95 100
174 70.1 0.0 138.2
176 66.1 0.0 146.2

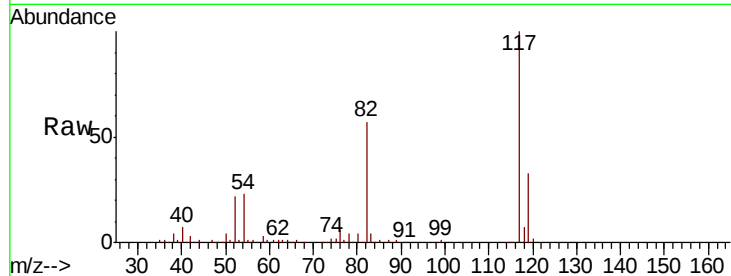




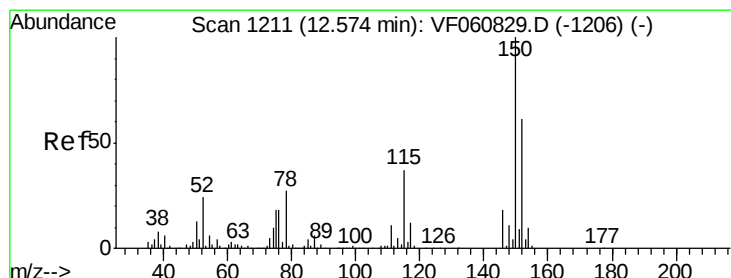
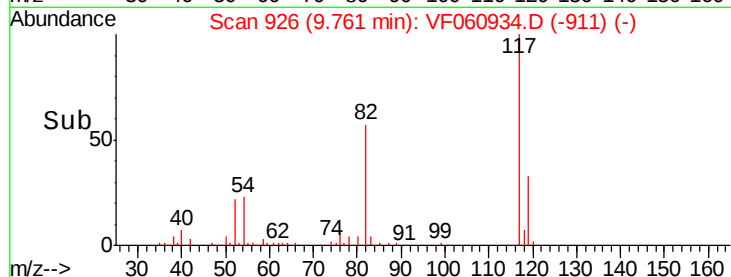
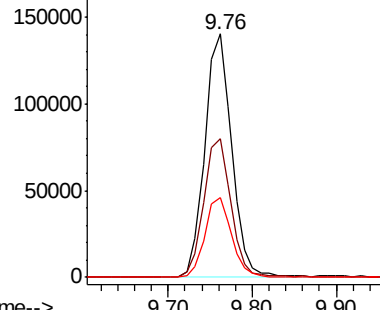
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.05 min
Lab File: VF060934.D
Acq: 7 Dec 2018 17:03

Instrument :
MSVOA_F
ClientSampleId :
VF1207SBL01

Tot Ion:117 Resp: 313173
Ion Ratio Lower Upper
117 100
82 56.7 46.6 69.8
119 32.5 26.4 39.6

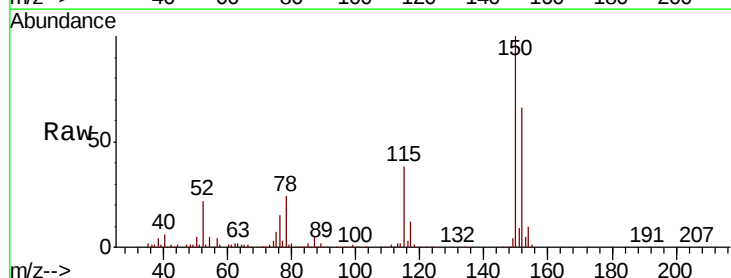


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

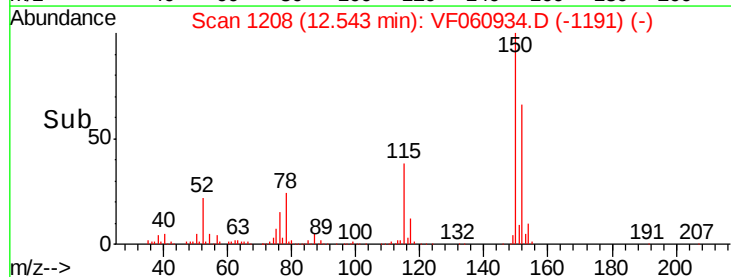
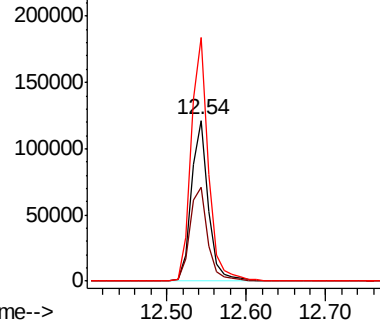


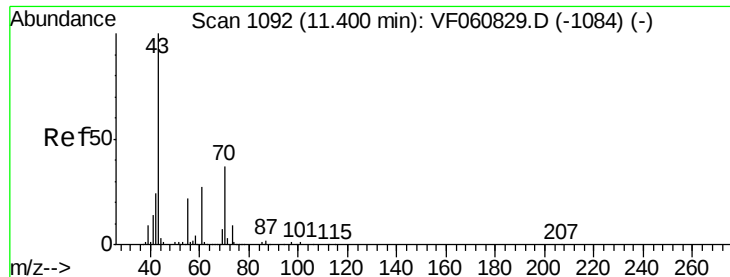
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF060934.D
Acq: 7 Dec 2018 17:03

Tgt Ion:152 Resp: 182925
Ion Ratio Lower Upper
152 100
115 58.2 30.1 90.5
150 151.5 0.0 327.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 1.655 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Instrument :

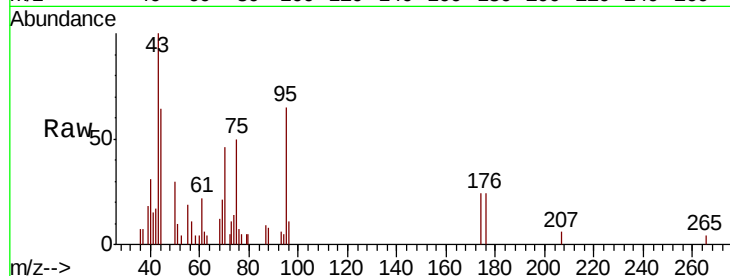
MSVOA_F

ClientSampleId :

VF1207SBL01

Tot Ion: 43 Resp: 5525

Ion	Ratio	Lower	Upper
43	100		
70	45.6	29.6	44.4#
55	19.0	17.2	25.8
61	22.5	21.8	32.6

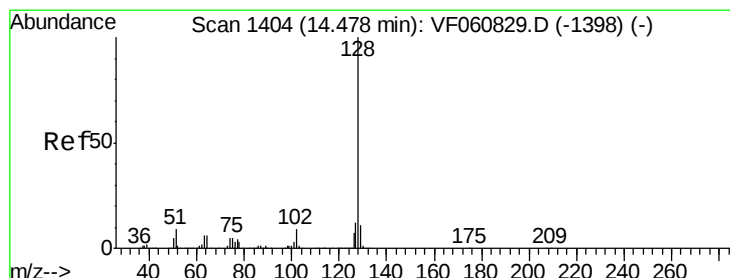
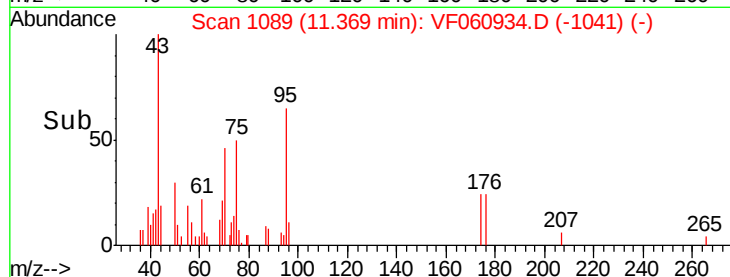
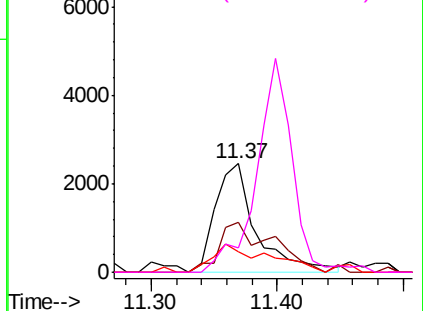


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#95

Naphthalene

Concen: Below Cal

RT: 14.45 min Scan# 1401

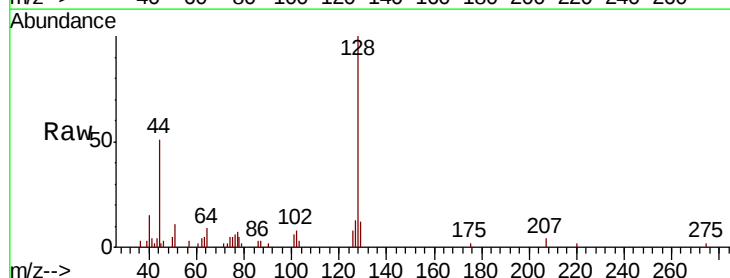
Delta R.T. -0.03 min

Lab File: VF060934.D

Acq: 7 Dec 2018 17:03

Tgt Ion: 128 Resp: 9635

Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.9	14.9
129	11.6	9.1	13.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

