

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120718\
 Data File : VF060946.D
 Acq On : 7 Dec 2018 23:24
 Operator : VA/AP
 Sample : J6265-01
 Misc : 6.18g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S32-0632

Quant Time: Dec 08 01:59:32 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	4.85	168	225729	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	405357	50.00	ug/l	-0.06
63) Chlorobenzene-d5	9.75	117	372516	50.00	ug/l	-0.06
72) 1,4-Dichlorobenzene-d4	12.53	152	174979	50.00	ug/l	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	120501	45.32	ug/l	-0.06
Spiked Amount			Recovery	=	90.64%	
35) Dibromofluoromethane	4.09	113	127543	39.66	ug/l	-0.06
Spiked Amount			Recovery	=	79.32%	
50) Toluene-d8	7.53	98	313889	33.14	ug/l	-0.06
Spiked Amount			Recovery	=	66.28%	
62) 4-Bromofluorobenzene	11.24	95	5496	1.28	ug/l	-0.20
Spiked Amount			Recovery	=	2.56%	

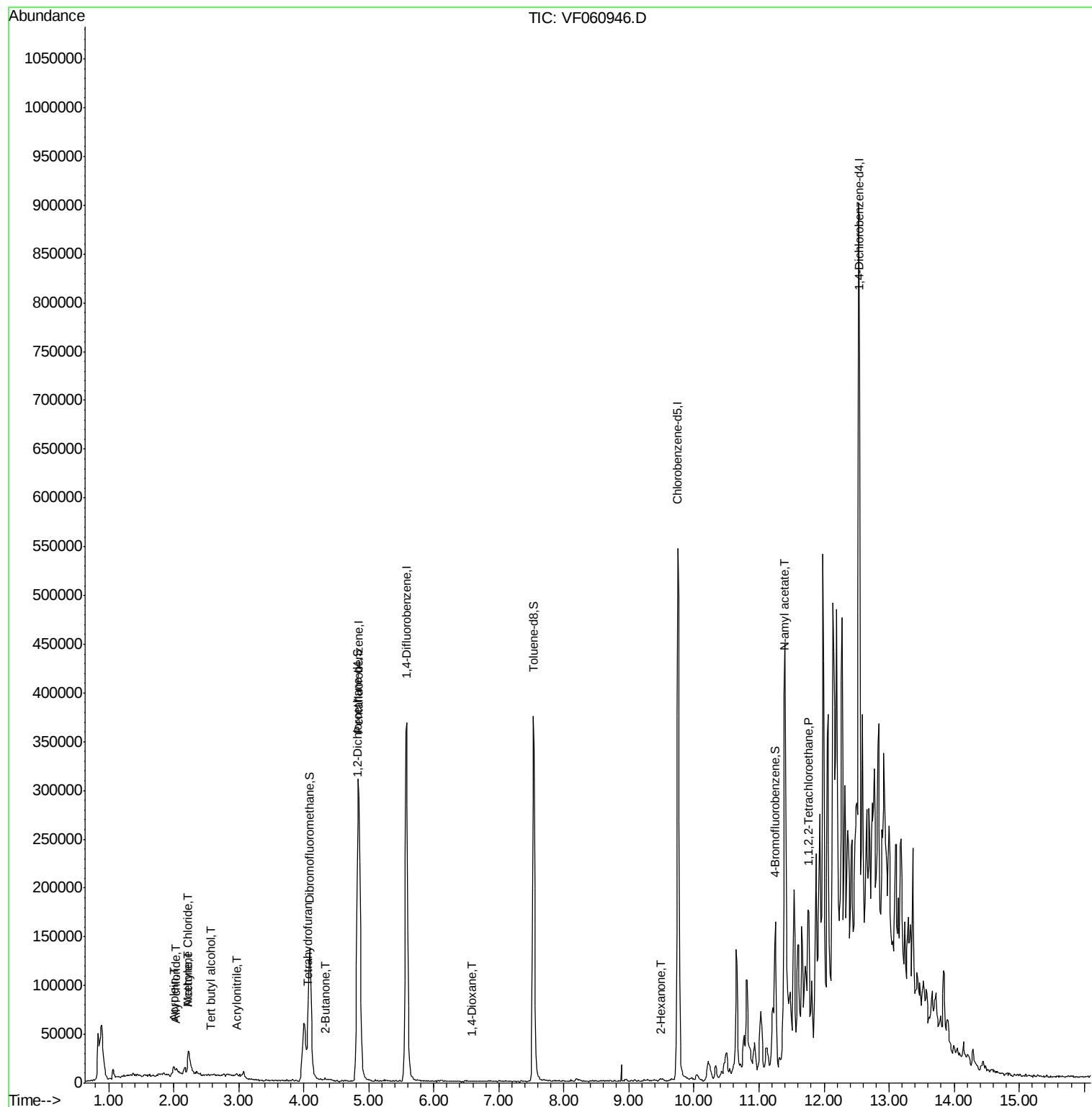
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	447	4.101	ug/l #	1
13) Acrolein	2.01	56	588	5.693	ug/l #	1
14) Allyl chloride	2.04	41	2668	1.198	ug/l #	82
15) Acrylonitrile	2.96	53	538	2.201	ug/l #	11
16) Acetone	2.23	43	28829	58.791	ug/l	100
20) Methylene Chloride	2.24	84	8290	4.608	ug/l #	87
25) 2-Butanone	4.33	43	4765	5.618	ug/l	98
29) Tetrahydrofuran	4.05	42	482	1.341	ug/l #	50
41) Methacrylonitrile	4.75	41	916	Below Cal	#	23
43) Isopropyl Acetate	6.94	43	205	Below Cal	#	49
49) 1,4-Dioxane	6.58	88	63	5.205	ug/l #	17
59) 2-Hexanone	9.48	43	1597	1.351	ug/l	80
74) N-amyl acetate	11.38	43	14565	4.561	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	11.76	83	6481	2.848	ug/l #	66
95) Naphthalene	14.44	128	2418	Below Cal	#	90

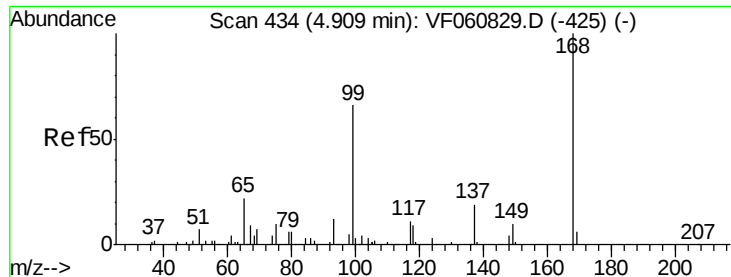
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.85 min Scan# 428

Delta R.T. -0.06 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

Instrument :

MSVOA_F

ClientSampleId :

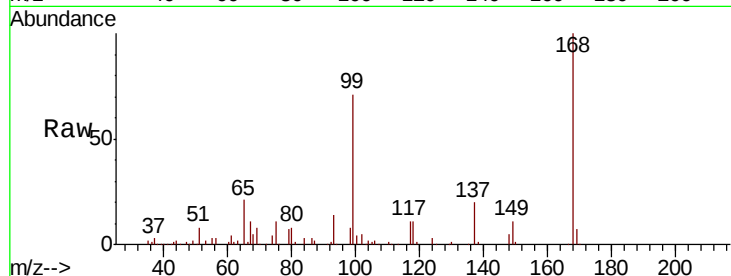
S32-0632

Tot Ion:168 Resp: 225729

Ion Ratio Lower Upper

168 100

99 71.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

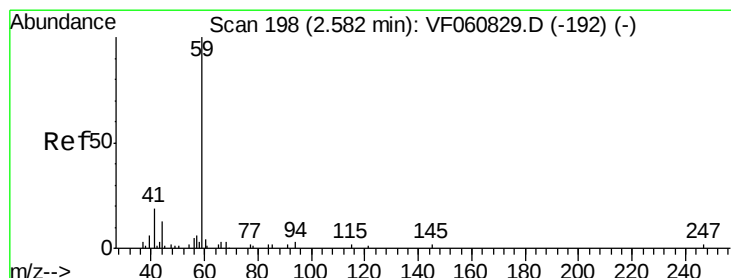
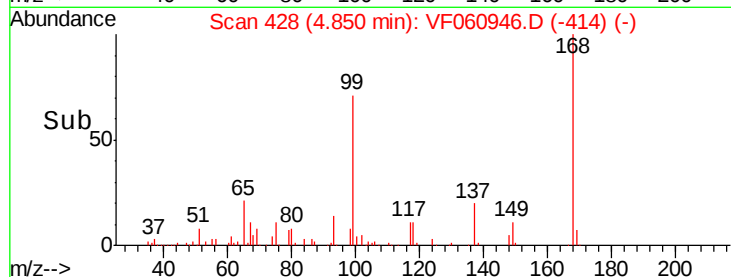
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 4.101 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF060946.D

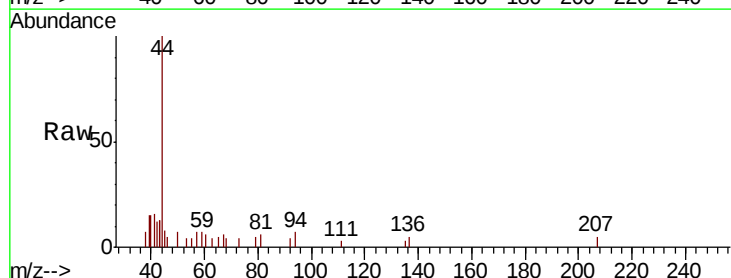
Acq: 7 Dec 2018 23:24

Tgt Ion: 59 Resp: 447

Ion Ratio Lower Upper

59 100

57 92.6 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

250

200

150

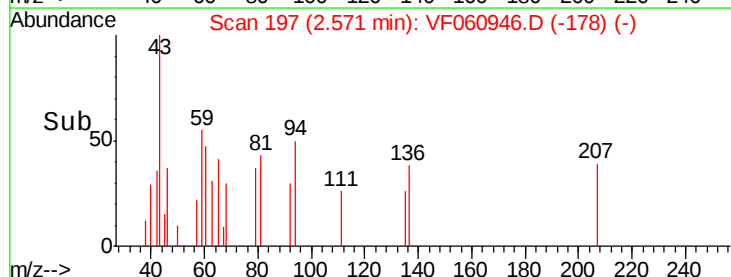
100

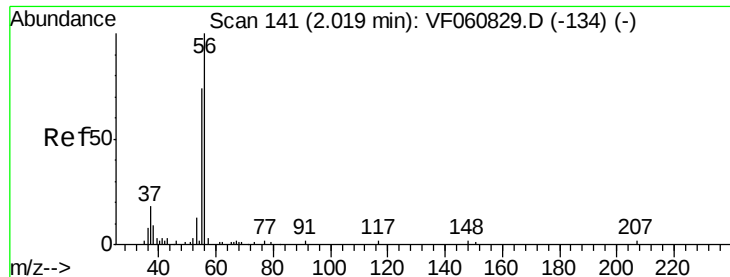
50

0

2.50 2.55 2.60

Time-->





#13

Acrolein

Concen: 5.693 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

Instrument :

MSVOA_F

ClientSampleId :

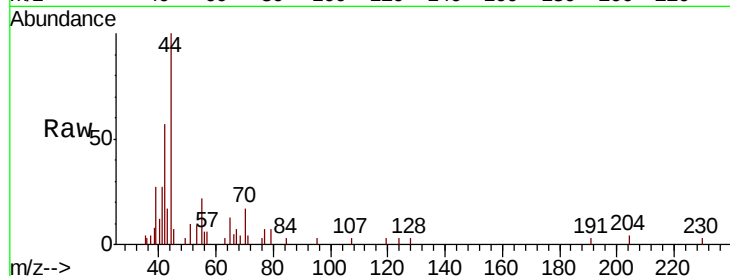
S32-0632

Tot Ion: 56 Resp: 588

Ion Ratio Lower Upper

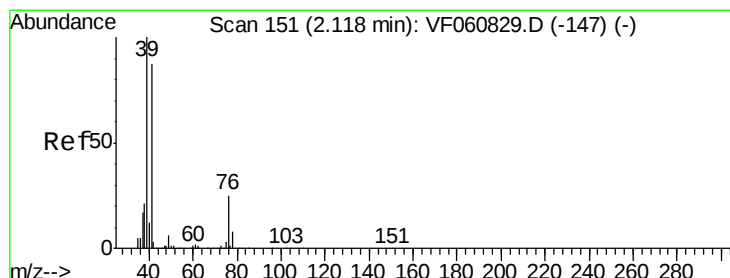
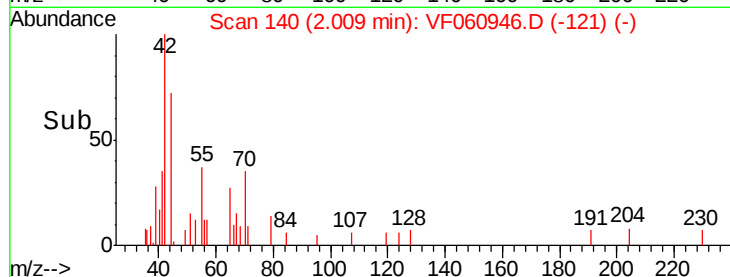
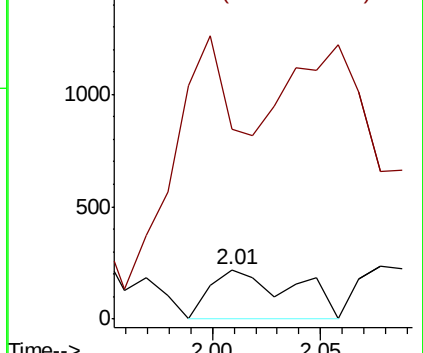
56 100

55 385.8 61.2 91.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 1.198 ug/l

RT: 2.04 min Scan# 143

Delta R.T. -0.08 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

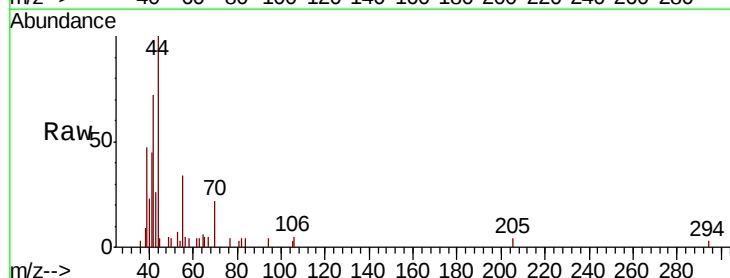
Tgt Ion: 41 Resp: 2668

Ion Ratio Lower Upper

41 100

39 105.2 91.7 137.5

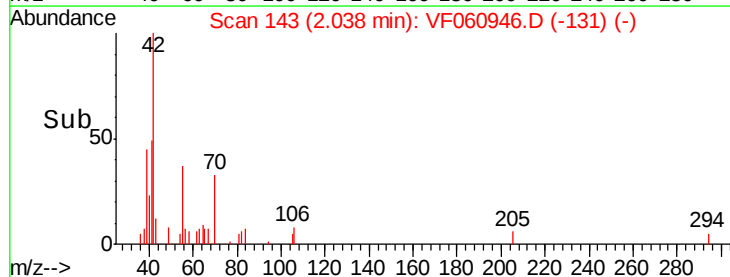
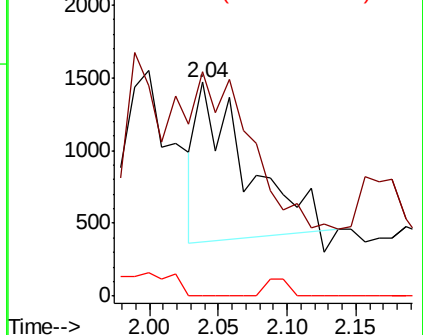
76 0.0 23.5 35.3#

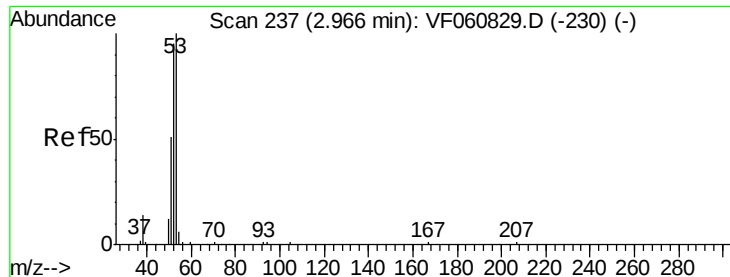


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 2.201 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

Instrument :

MSVOA_F

ClientSampleId :

S32-0632

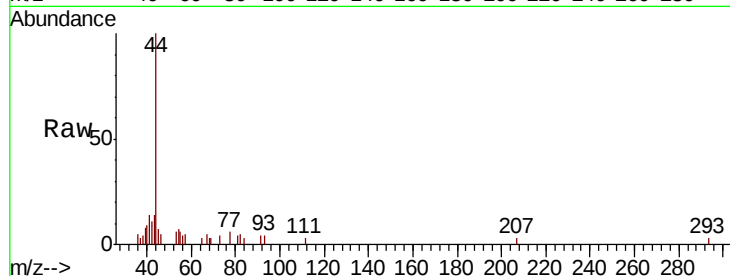
Tot Ion: 53 Resp: 538

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

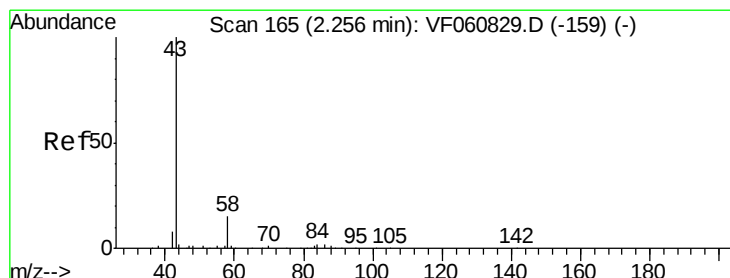
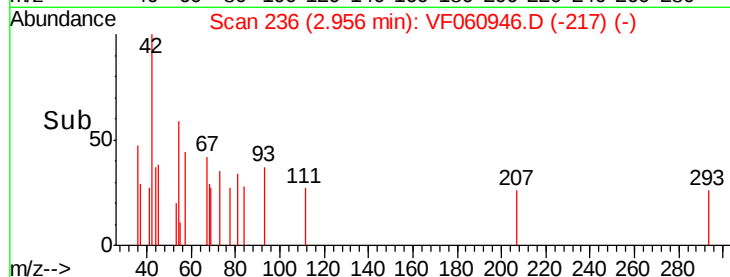
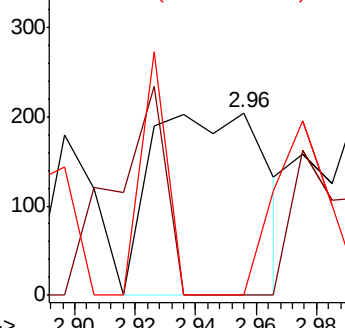
51 0.0 40.7 61.1#



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: 58.791 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF060946.D

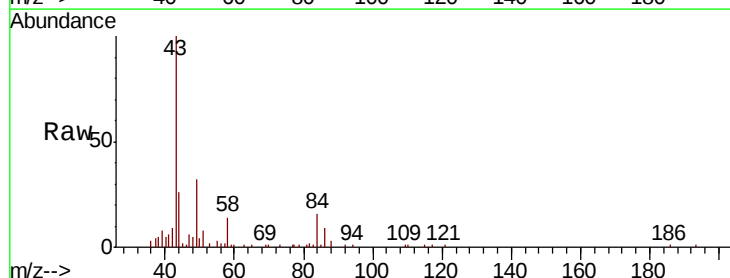
Acq: 7 Dec 2018 23:24

Tgt Ion: 43 Resp: 28829

Ion Ratio Lower Upper

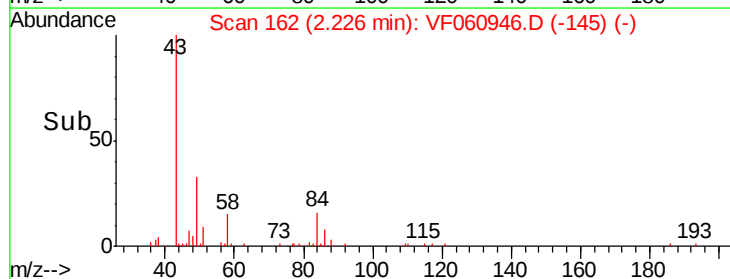
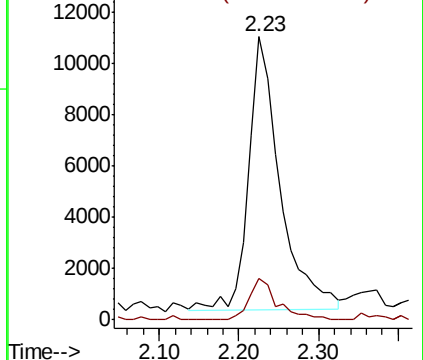
43 100

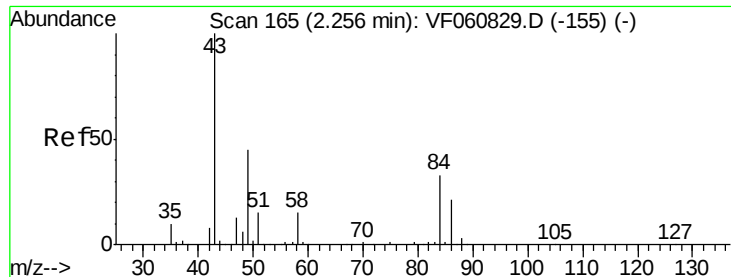
58 14.4 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

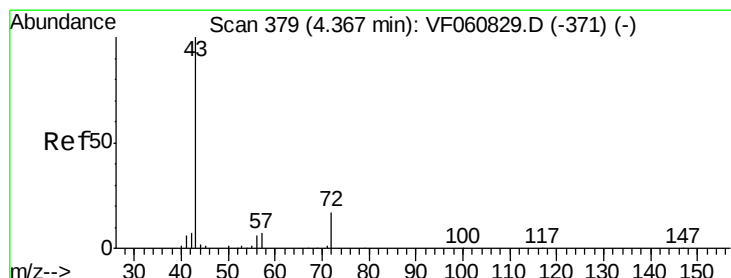
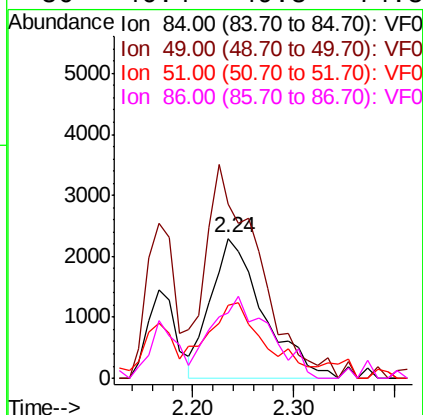
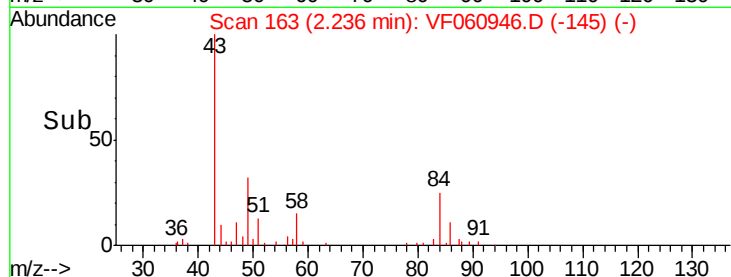
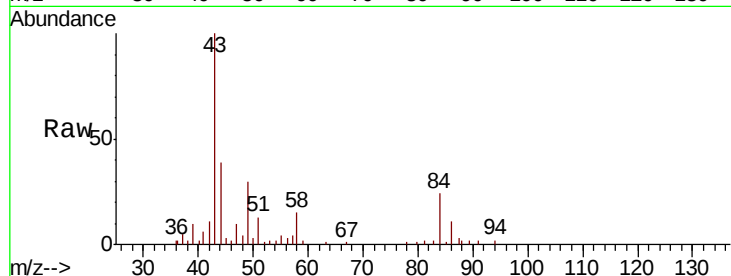




#20
Methvlene Chloride
Concen: 4.608 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

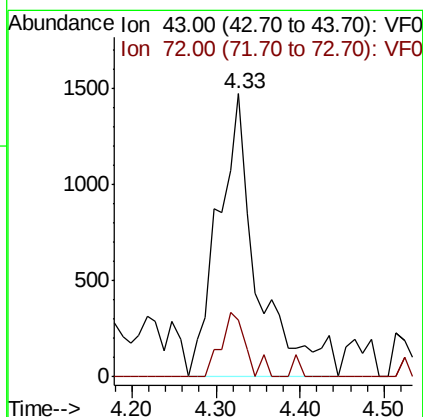
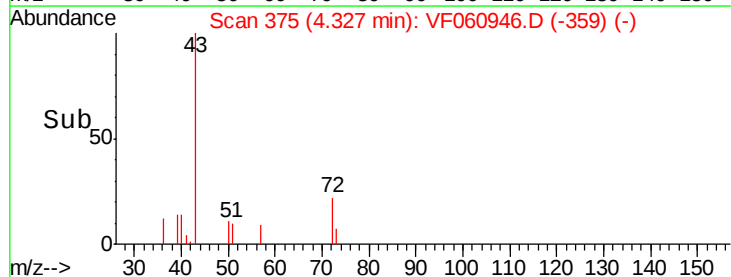
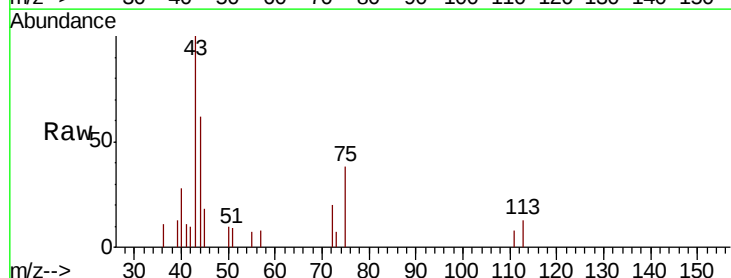
Instrument :
MSVOA_F
ClientSampleId :
S32-0632

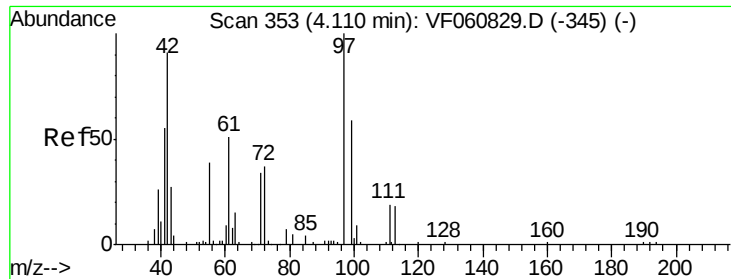
Tot Ion: 84 Resp: 8290
Ion Ratio Lower Upper
84 100
49 124.9 111.3 166.9
51 52.1 38.0 57.0
86 46.4 49.8 74.8#



#25
2-Butanone
Concen: 5.618 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.04 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

Tgt Ion: 43 Resp: 4765
Ion Ratio Lower Upper
43 100
72 20.3 15.4 23.2

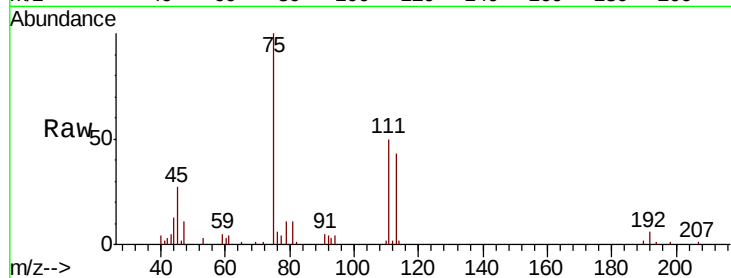




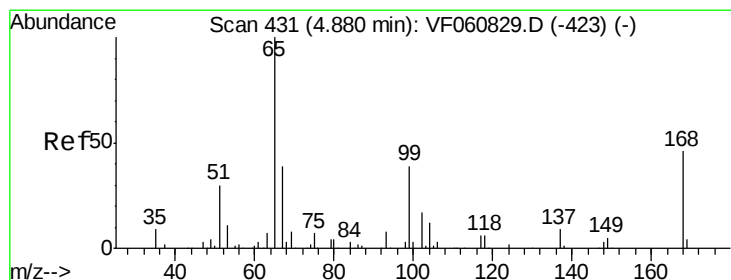
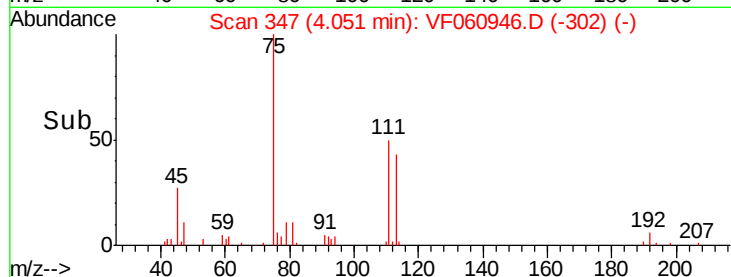
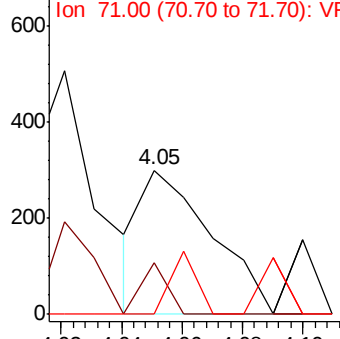
#29
Tetrahydrofuran
Concen: 1.341 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.06 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

Instrument :
MSVOA_F
ClientSampleId :
S32-0632

Tot Ion: 42 Resp: 482
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 16.2 28.7 43.1#

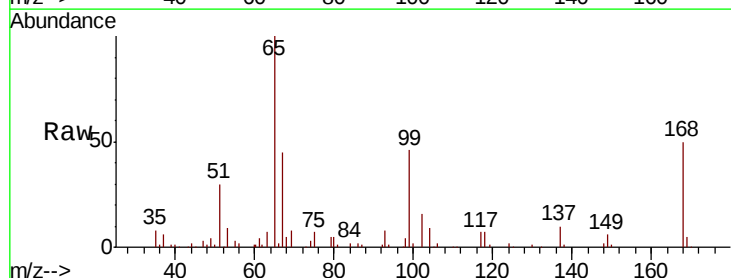


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

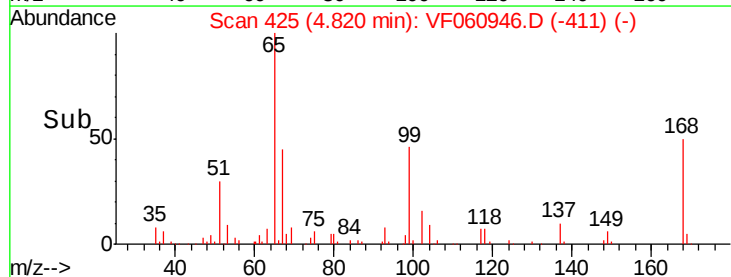
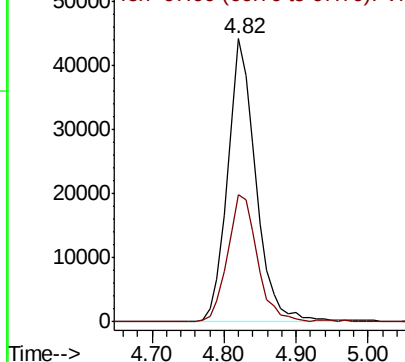


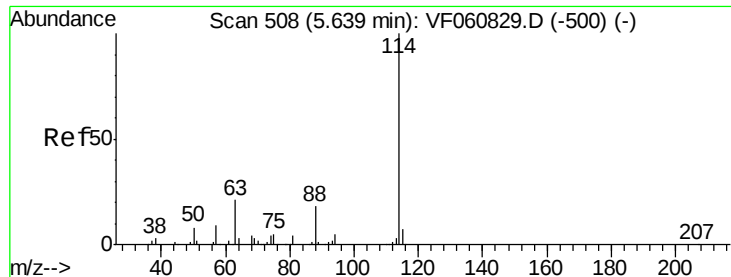
#33
1,2-Dichloroethane-d4
Concen: 45.315 ug/l
RT: 4.82 min Scan# 425
Delta R.T. -0.06 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

Tgt Ion: 65 Resp: 120501
Ion Ratio Lower Upper
65 100
67 45.2 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: 5.58 min Scan# 502

Delta R.T. -0.06 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

Instrument :

MSVOA_F

ClientSampleId :

S32-0632

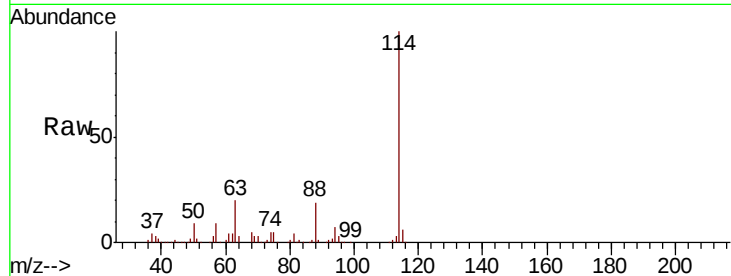
Tot Ion:114 Resp: 405357

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.6

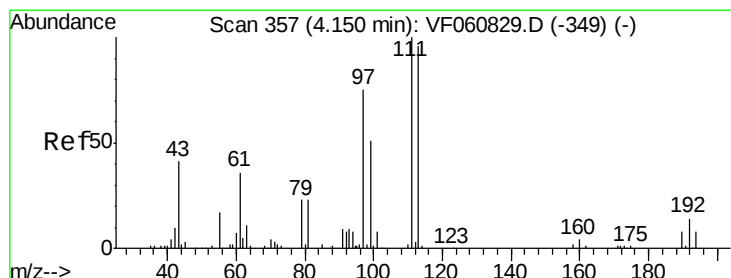
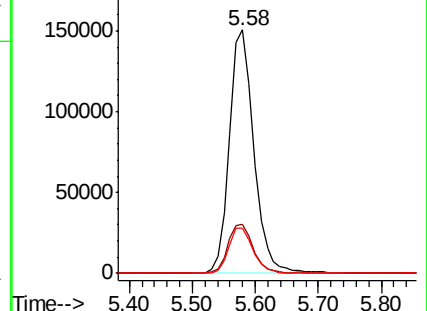
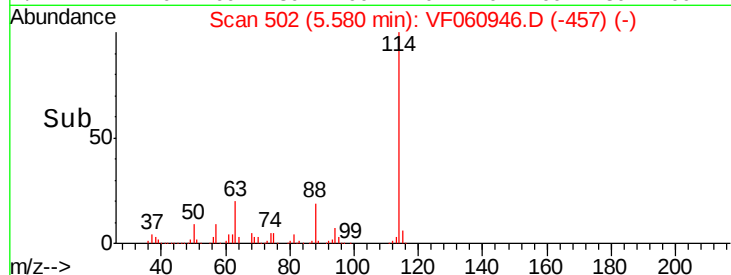
88 18.6 0.0 36.6



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: 39.661 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.06 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

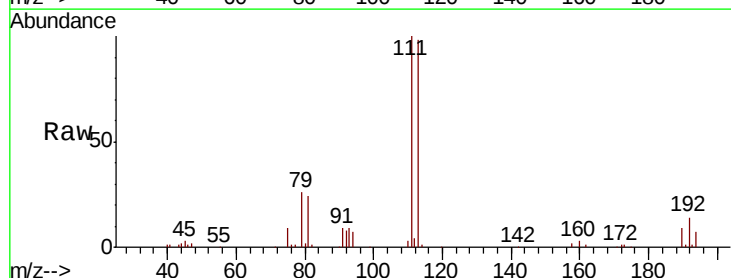
Tgt Ion:113 Resp: 127543

Ion Ratio Lower Upper

113 100

111 102.2 83.0 124.6

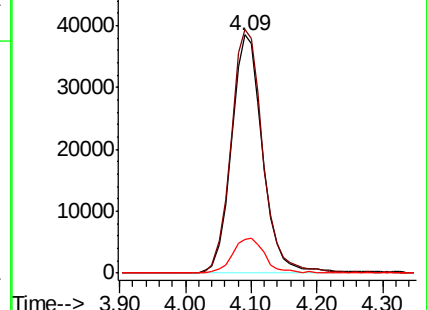
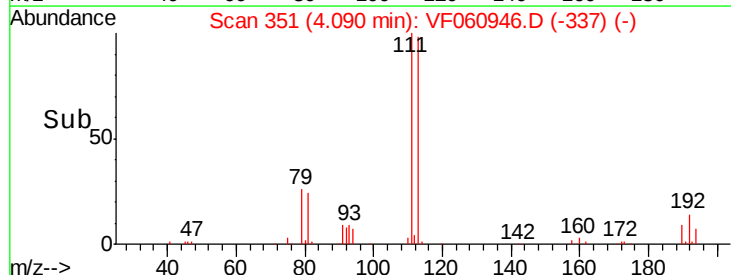
192 14.2 12.3 18.5

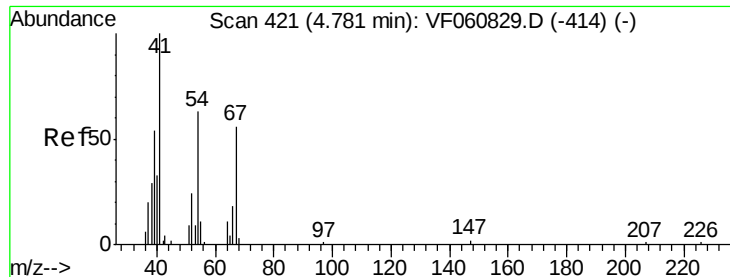


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

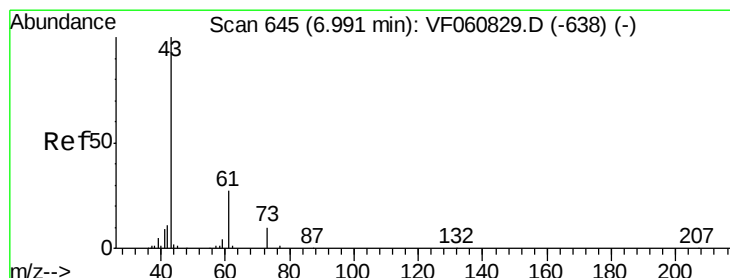
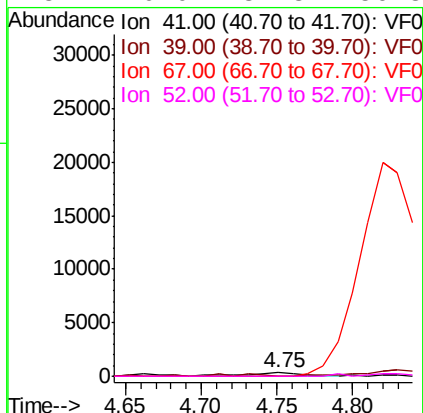
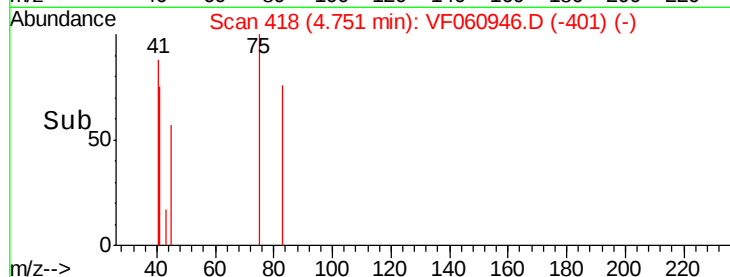
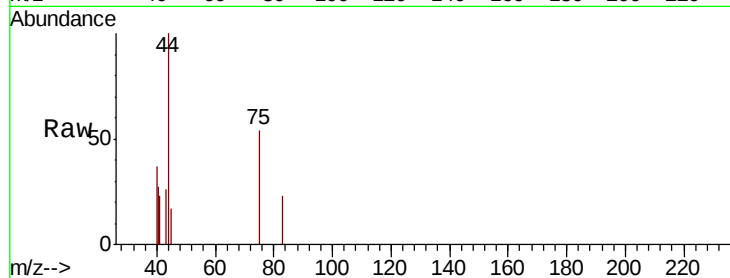




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

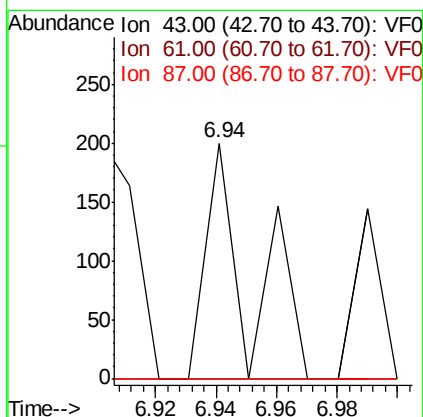
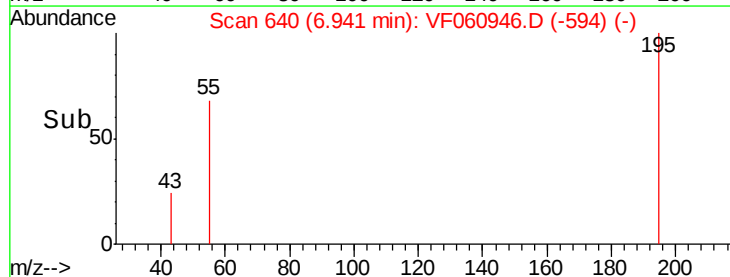
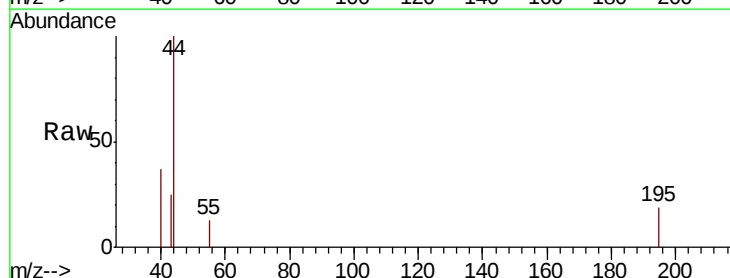
Instrument :
MSVOA_F
ClientSampleId :
S32-0632

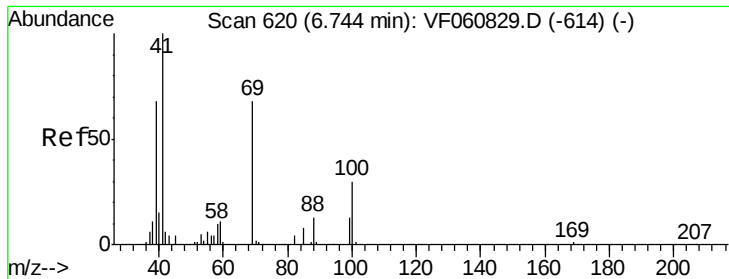
Tot Ion: 41 Resp: 916
Ion Ratio Lower Upper
41 100
39 0.0 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.94 min Scan# 640
Delta R.T. -0.05 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

Tgt Ion: 43 Resp: 205
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: 5.205 ug/l

RT: 6.58 min Scan# 603

Delta R.T. -0.17 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

Instrument :

MSVOA_F

ClientSampleId :

S32-0632

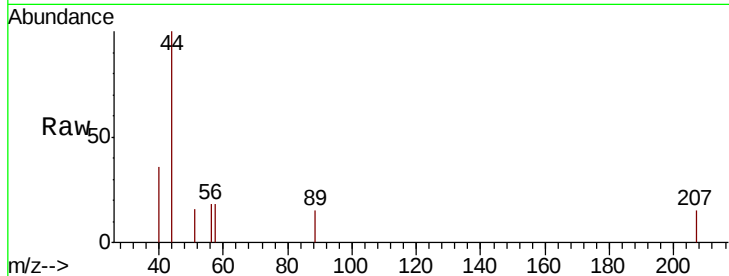
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 42.0 63.0#

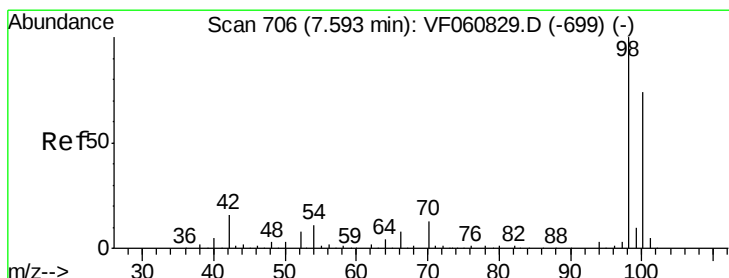
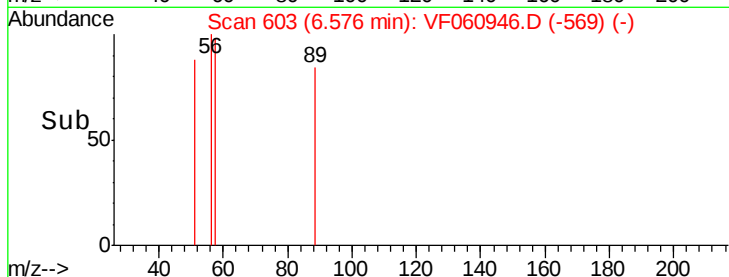
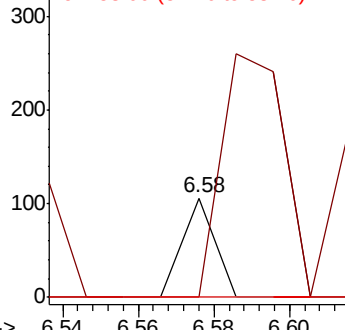
58 0.0 61.8 92.8#



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: 33.136 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.06 min

Lab File: VF060946.D

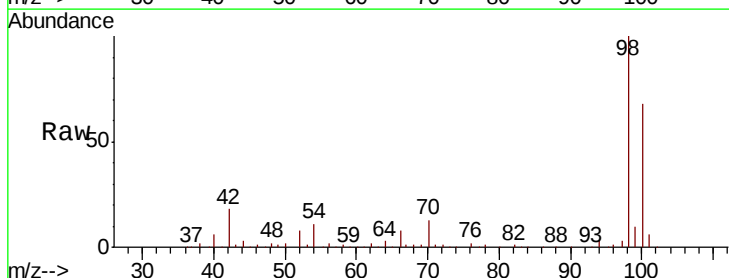
Acq: 7 Dec 2018 23:24

Tgt Ion: 98 Resp: 313889

Ion Ratio Lower Upper

98 100

100 68.1 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

150000

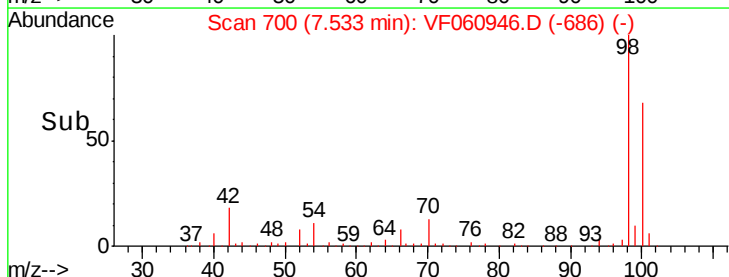
100000

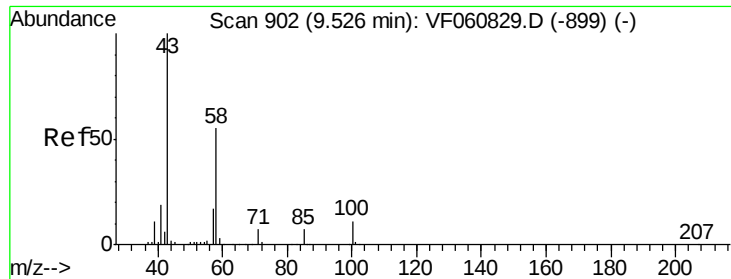
50000

0

7.40 7.50 7.60 7.70

Time-->

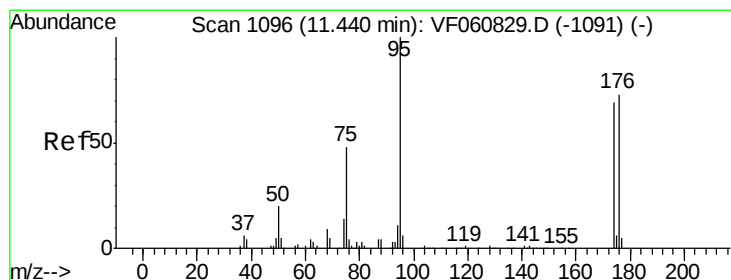
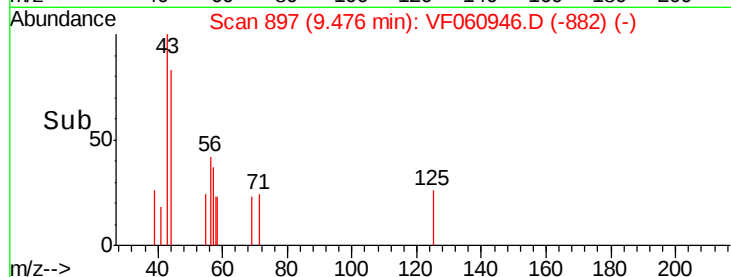
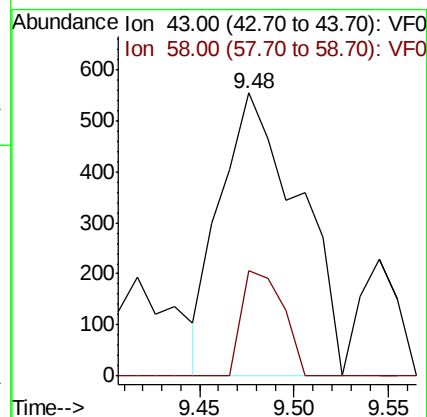
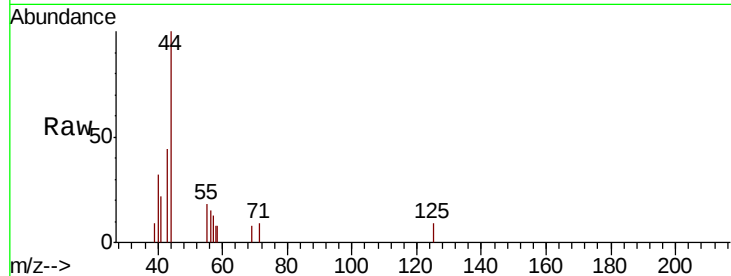




#59
2-Hexanone
Concen: 1.351 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.05 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

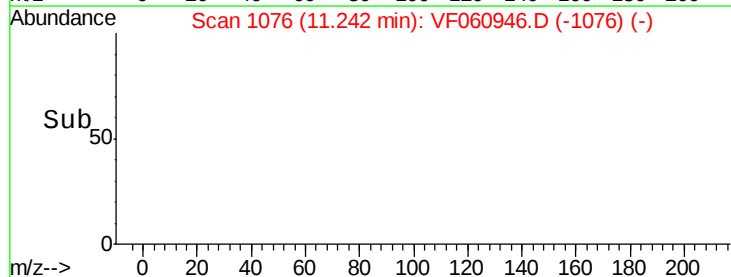
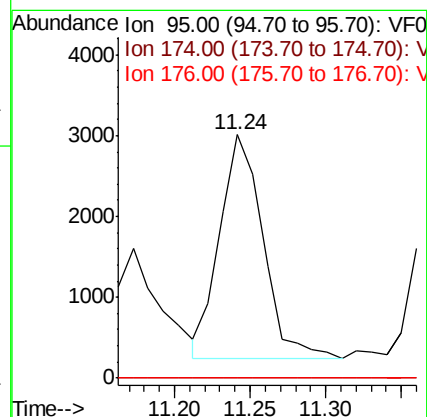
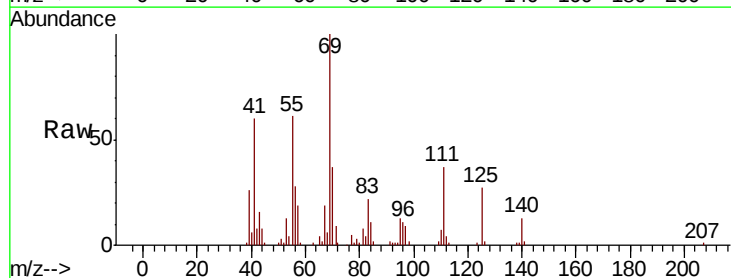
Instrument :
MSVOA_F
ClientSampleId :
S32-0632

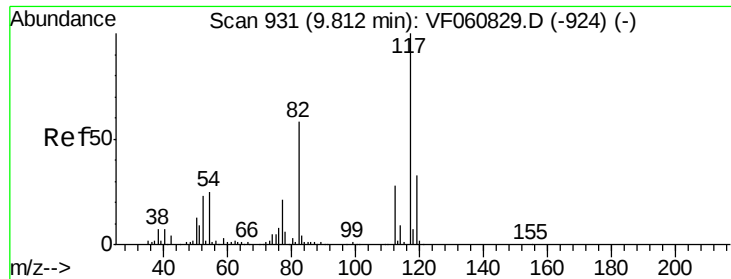
Tot Ion: 43 Resp: 1597
Ion Ratio Lower Upper
43 100
58 37.0 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 1.277 ug/l
RT: 11.24 min Scan# 1076
Delta R.T. -0.20 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

Tgt Ion: 95 Resp: 5496
Ion Ratio Lower Upper
95 100
174 0.0 0.0 138.2
176 0.0 0.0 146.2

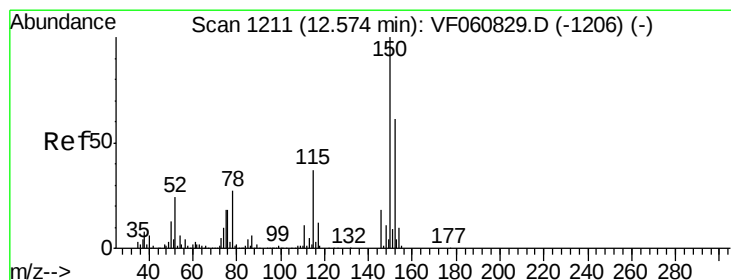
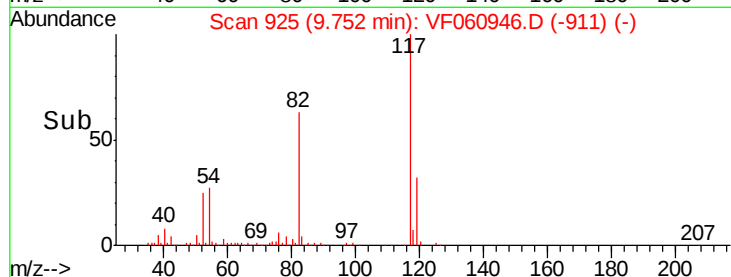
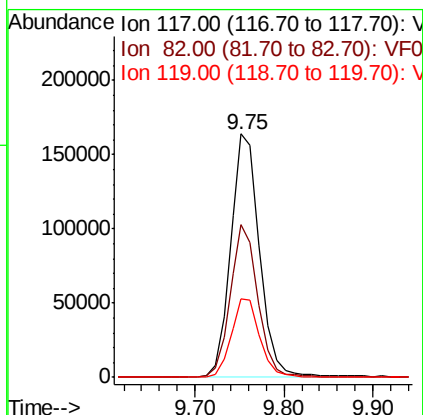
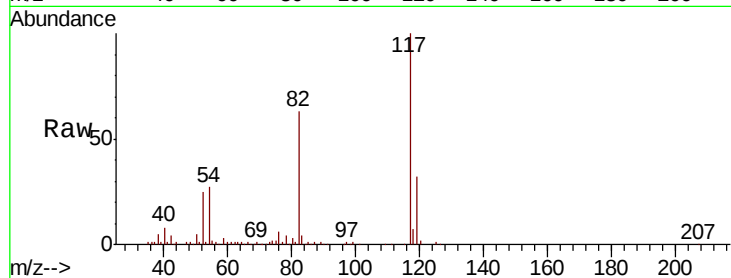




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.06 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

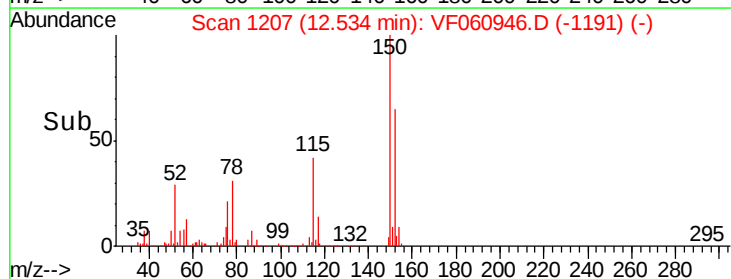
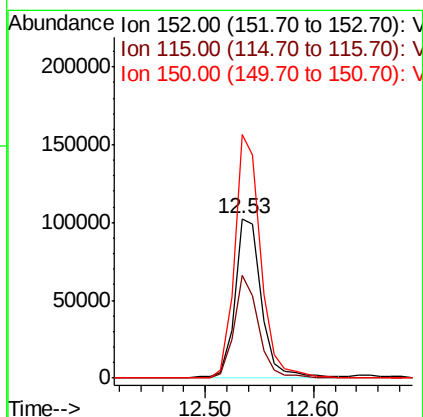
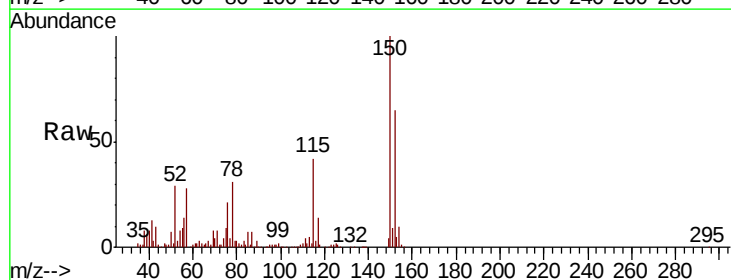
Instrument :
MSVOA_F
ClientSampleId :
S32-0632

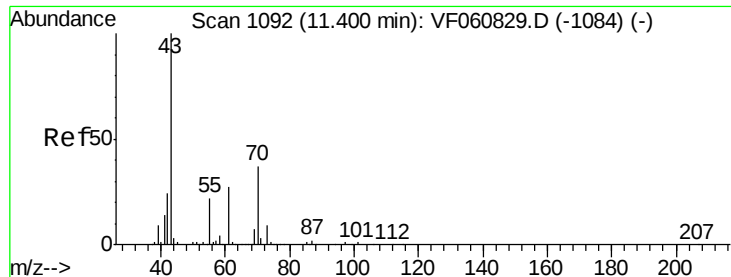
Tot Ion	Ratio	Lower	Upper
117	100		
82	62.8	46.6	69.8
119	32.1	26.4	39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.04 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.7	30.1	90.5
150	152.9	0.0	327.6





#74

N-amvl acetate

Concen: 4.561 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

Instrument :

MSVOA_F

ClientSampled :

S32-0632

Tot Ion: 43 Resp: 14565

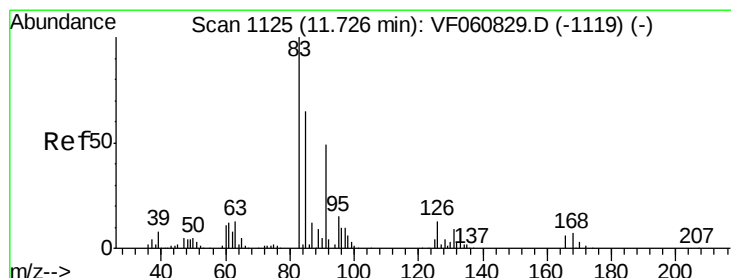
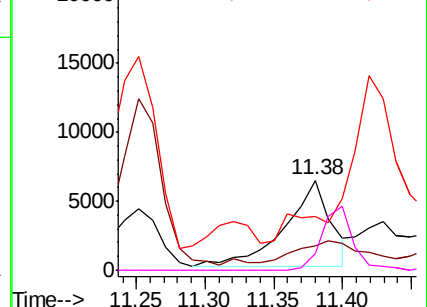
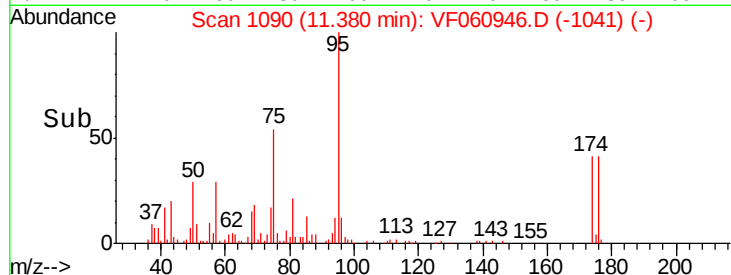
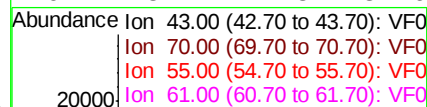
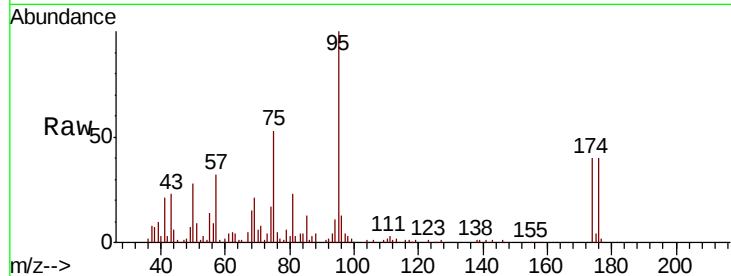
Ion Ratio Lower Upper

43 100

70 26.7 29.6 44.4#

55 60.5 17.2 25.8#

61 18.2 21.8 32.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.848 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. 0.04 min

Lab File: VF060946.D

Acq: 7 Dec 2018 23:24

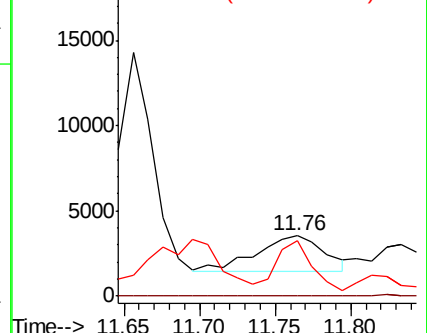
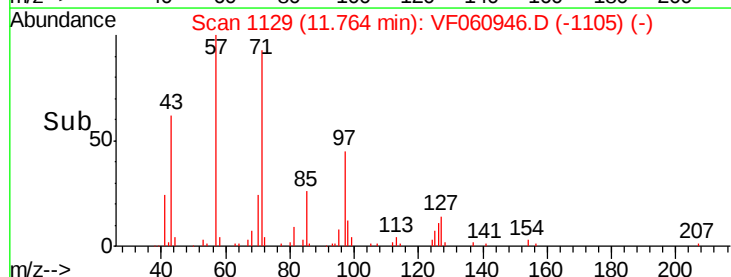
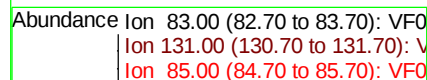
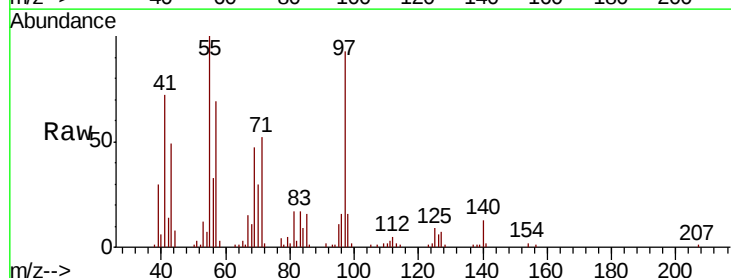
Tgt Ion: 83 Resp: 6481

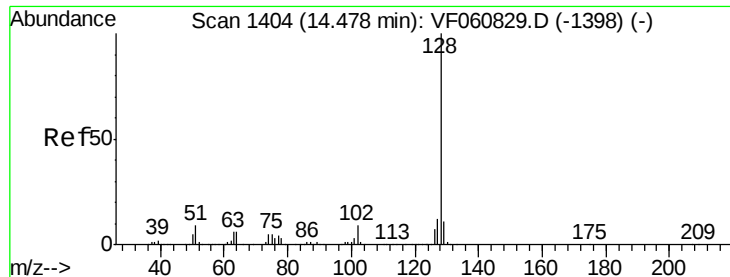
Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

85 92.8 32.6 97.8





#95
Naphthalene
Concen: Below Cal
RT: 14.44 min Scan# 1400
Delta R.T. -0.04 min
Lab File: VF060946.D
Acq: 7 Dec 2018 23:24

Instrument :
MSVOA_F
ClientSampleId :
S32-0632

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.8	9.9	14.9
129	17.1	9.1	13.7

