

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120718\
 Data File : VF060942.D
 Acq On : 7 Dec 2018 21:29
 Operator : VA/AP
 Sample : J6214-29
 Misc : 5.24g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(12.5-14.5)

Quant Time: Dec 08 01:58:29 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	186879	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.57	114	318624	50.00	ug/l	-0.06
63) Chlorobenzene-d5	9.76	117	261935	50.00	ug/l	-0.06
72) 1,4-Dichlorobenzene-d4	12.54	152	114503	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	98671	44.82	ug/l	-0.06
Spiked Amount			Recovery	=	89.64%	
35) Dibromofluoromethane	4.09	113	106515	42.14	ug/l	-0.06
Spiked Amount			Recovery	=	84.28%	
50) Toluene-d8	7.54	98	240172	32.26	ug/l	-0.06
Spiked Amount			Recovery	=	64.52%	
62) 4-Bromofluorobenzene	11.39	95	111508	32.95	ug/l	-0.05
Spiked Amount			Recovery	=	65.90%	

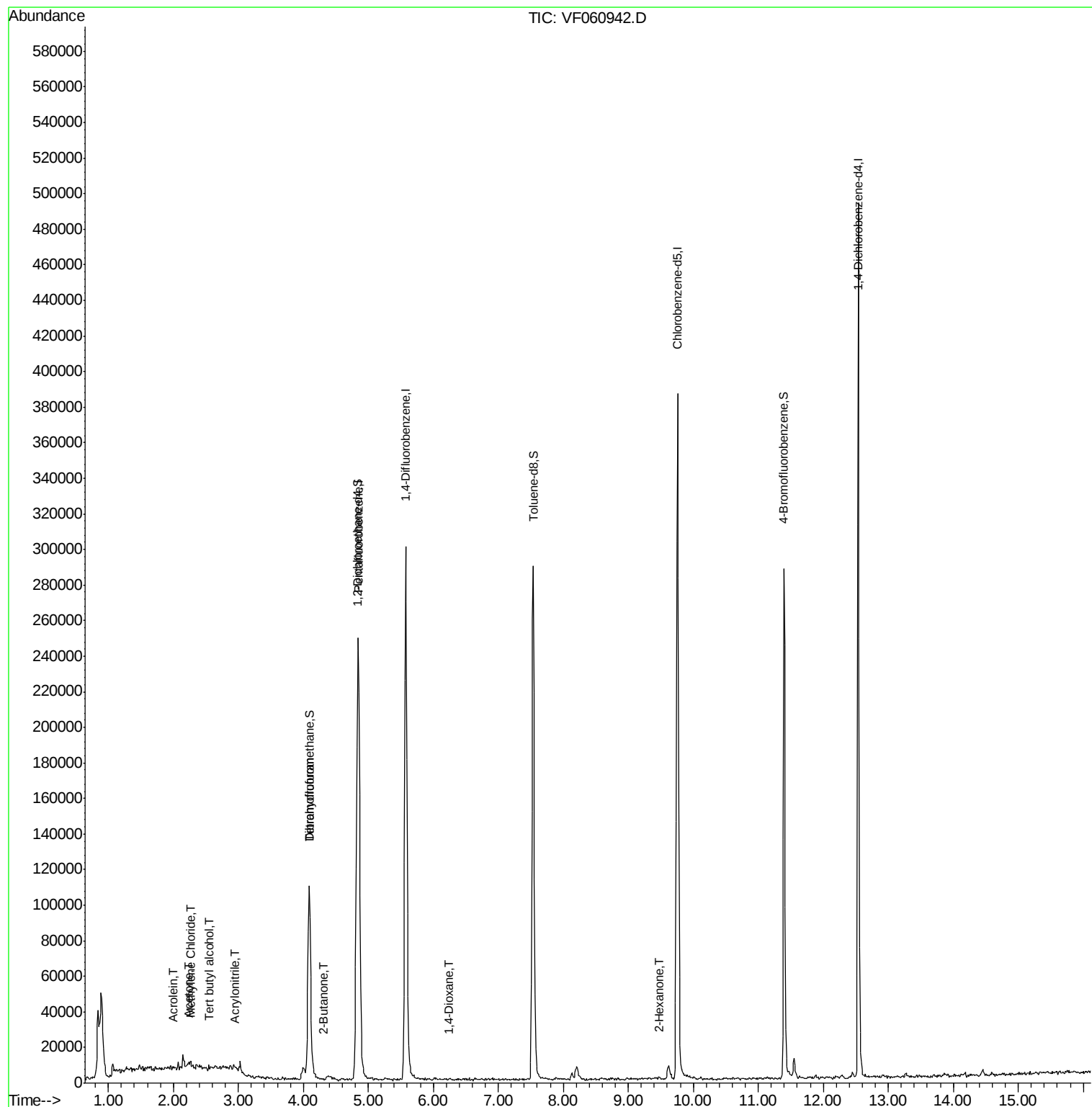
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	91	1.008	ug/l #	1
13) Acrolein	2.00	56	370	4.327	ug/l	96
15) Acrylonitrile	2.96	53	584	2.886	ug/l #	62
16) Acetone	2.24	43	521	1.283	ug/l #	73
18) Methyl Acetate	2.31	43	282	Below Cal	#	61
20) Methylene Chloride	2.25	84	2495	1.675	ug/l #	77
25) 2-Butanone	4.31	43	715	1.018	ug/l #	57
29) Tetrahydrofuran	4.09	42	395	1.327	ug/l #	37
41) Methacrylonitrile	4.68	41	607	Below Cal	#	55
43) Isopropyl Acetate	6.92	43	706	Below Cal	#	49
49) 1,4-Dioxane	6.26	88	80	8.409	ug/l #	1
59) 2-Hexanone	9.48	43	1033	1.112	ug/l	93
95) Naphthalene	14.44	128	1590	Below Cal	#	91

(#) = 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: VF060942.D

Acq: 7 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

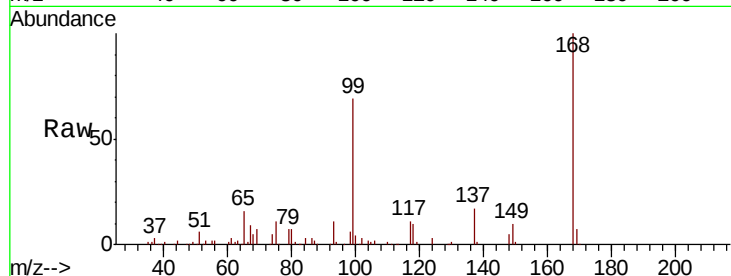
SB-2(12.5-14.5)

Tot Ion:168 Resp: 186879

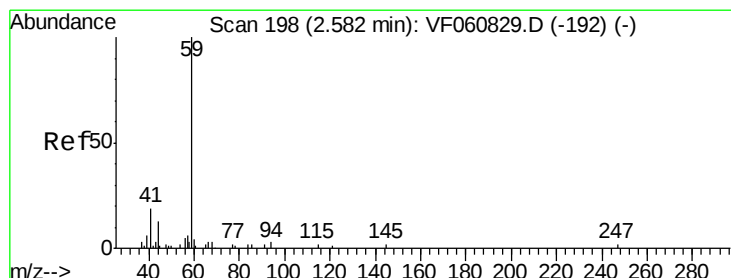
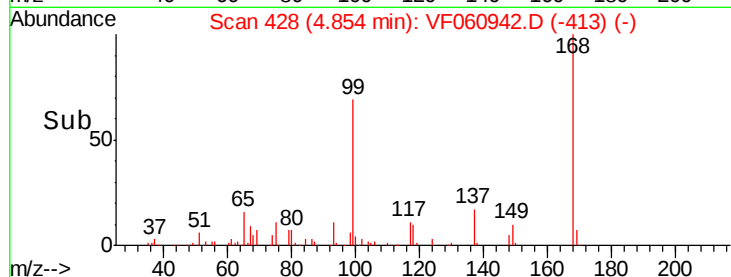
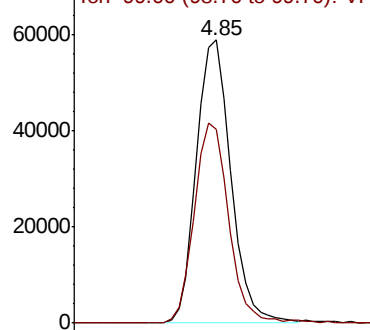
Ion Ratio Lower Upper

168 100

99 68.6 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 1.008 ug/l

RT: 2.55 min Scan# 194

Delta R.T. -0.04 min

Lab File: VF060942.D

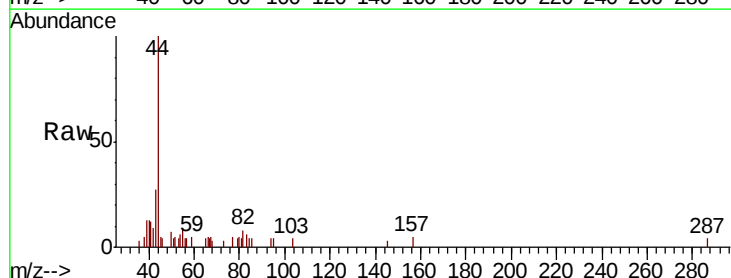
Acq: 7 Dec 2018 21:29

Tgt Ion: 59 Resp: 91

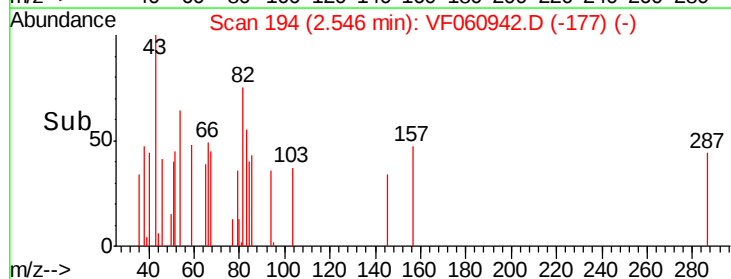
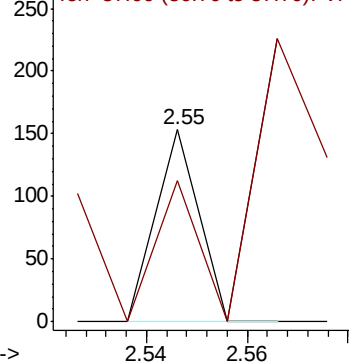
Ion Ratio Lower Upper

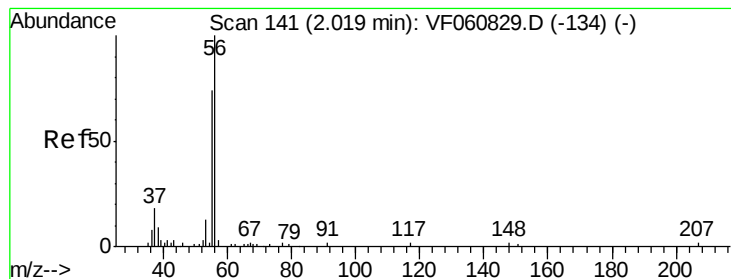
59 100

57 73.9 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 4.327 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF060942.D

Acq: 7 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

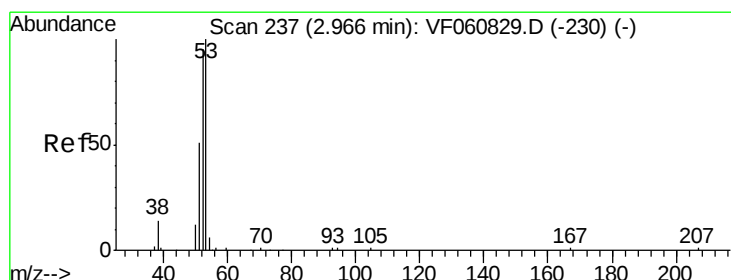
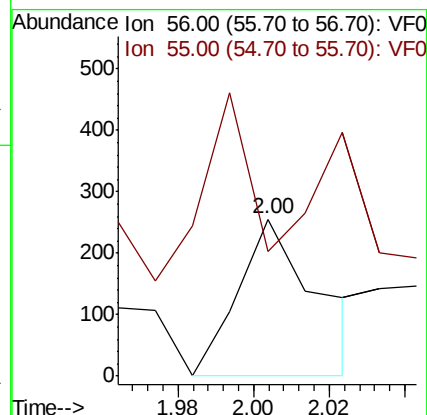
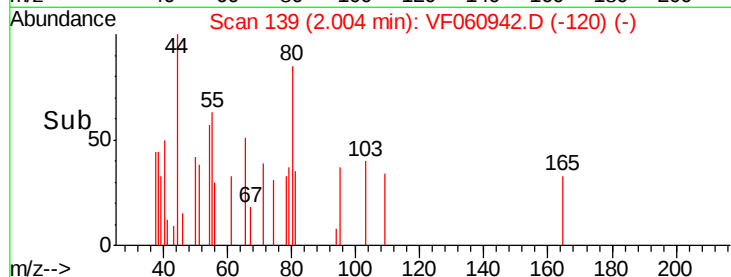
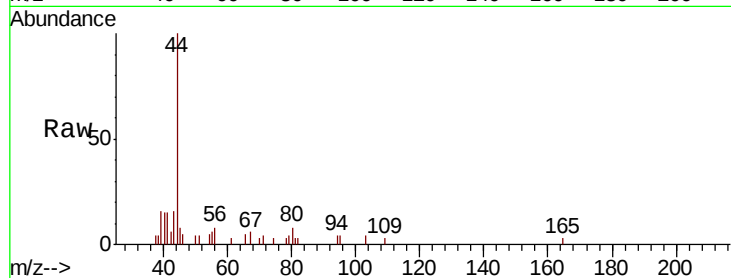
SB-2(12.5-14.5)

Tot Ion: 56 Resp: 370

Ion Ratio Lower Upper

56 100

55 79.6 61.2 91.8



#15

Acrylonitrile

Concen: 2.886 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060942.D

Acq: 7 Dec 2018 21:29

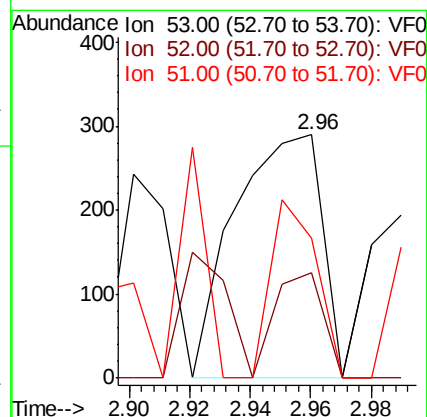
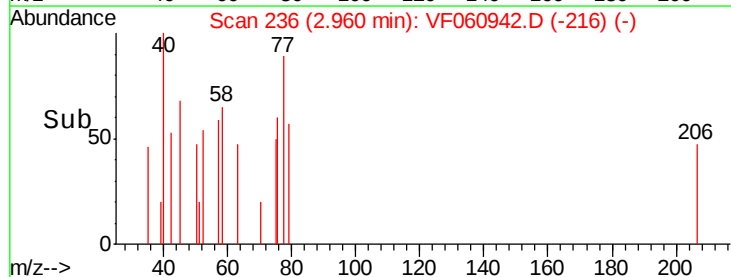
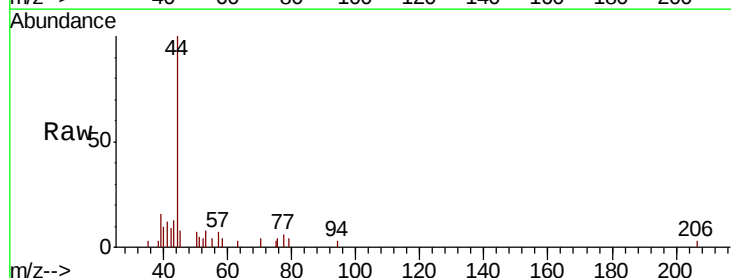
Tgt Ion: 53 Resp: 584

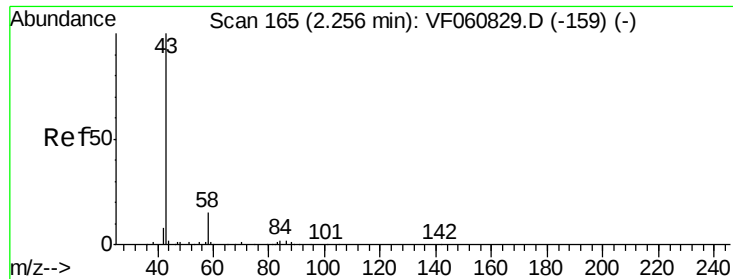
Ion Ratio Lower Upper

53 100

52 43.1 76.5 114.7#

51 57.2 40.7 61.1





#16

Acetone

Concen: 1.283 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060942.D

Acq: 7 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

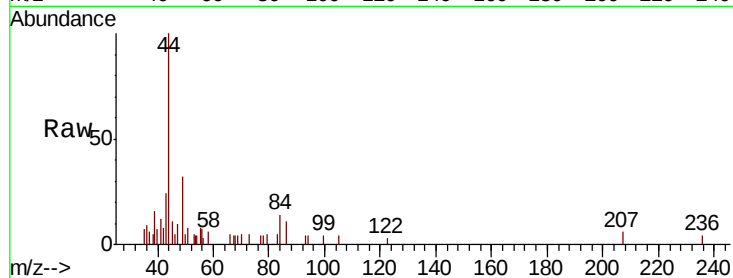
SB-2(12.5-14.5)

Tot Ion: 43 Resp: 521

Ion Ratio Lower Upper

43 100

58 25.4 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.24

600

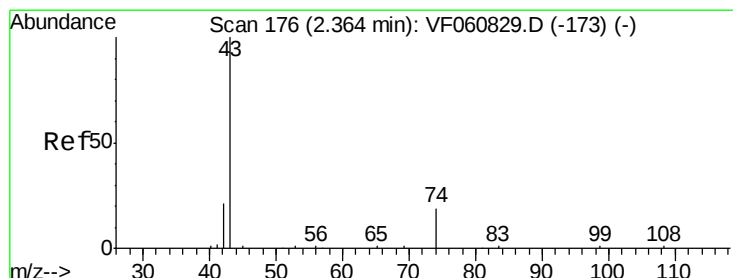
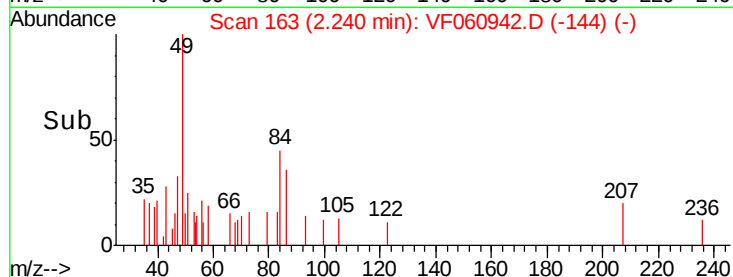
400

200

0

2.22 2.24 2.26 2.28

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 2.31 min Scan# 170

Delta R.T. -0.05 min

Lab File: VF060942.D

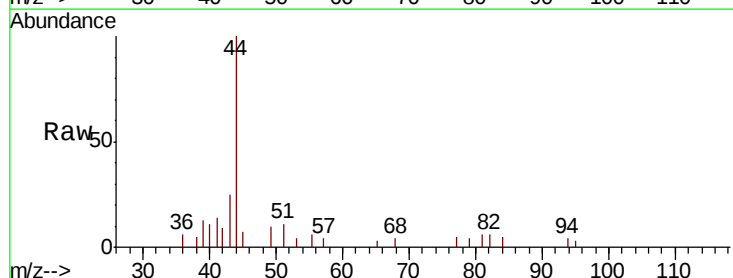
Acq: 7 Dec 2018 21:29

Tgt Ion: 43 Resp: 282

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

2.31

800

600

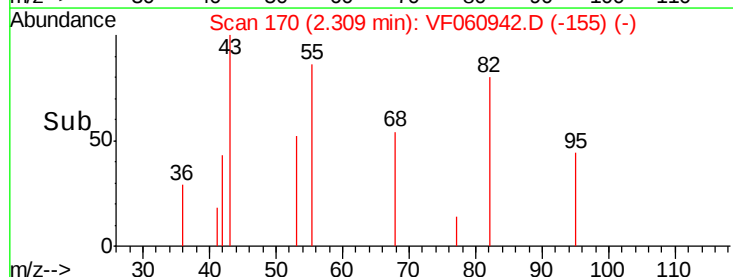
400

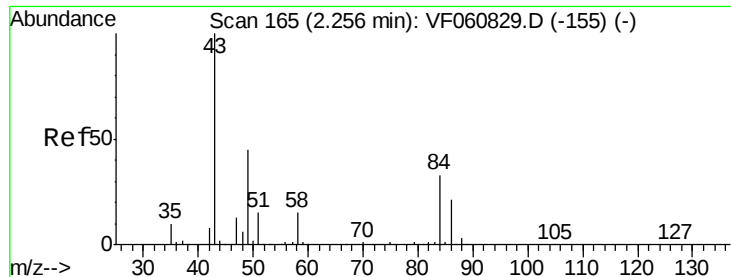
200

0

2.30 2.32

Time-->

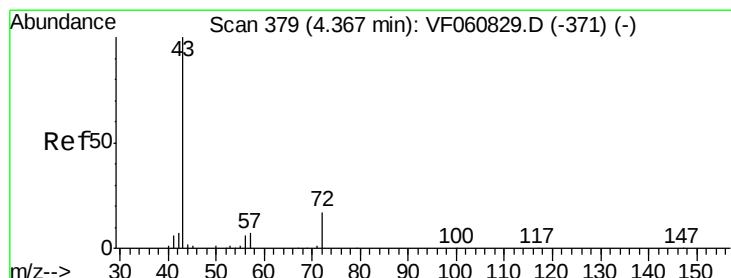
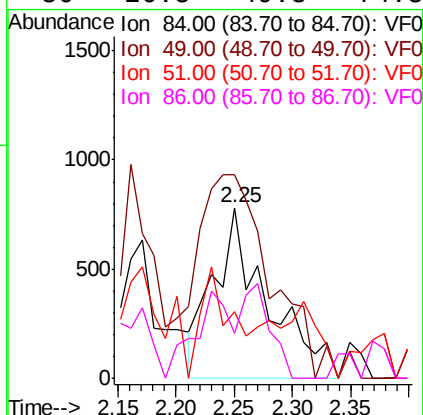
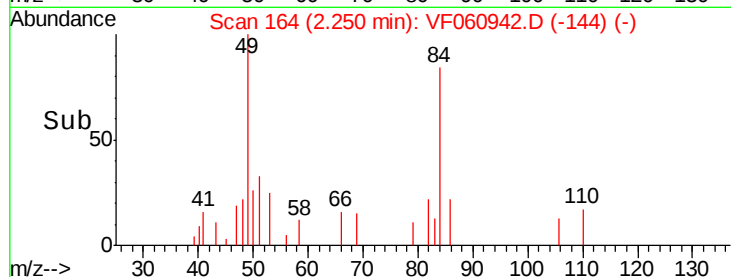
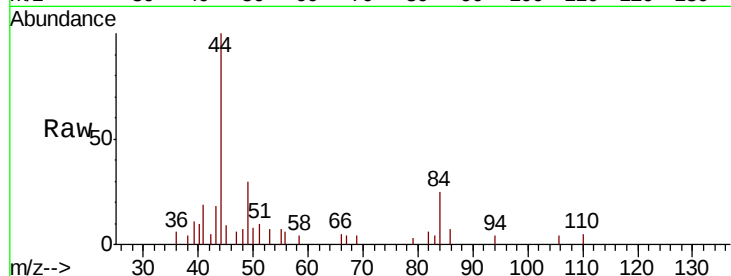




#20
Methvlene Chloride
Concen: 1.675 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

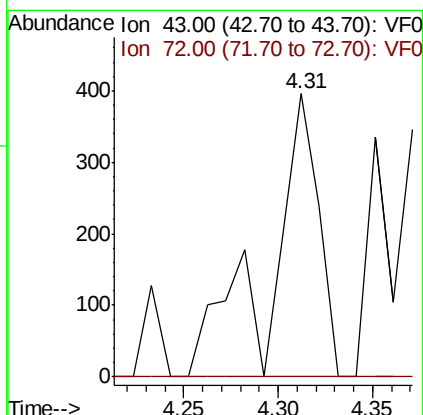
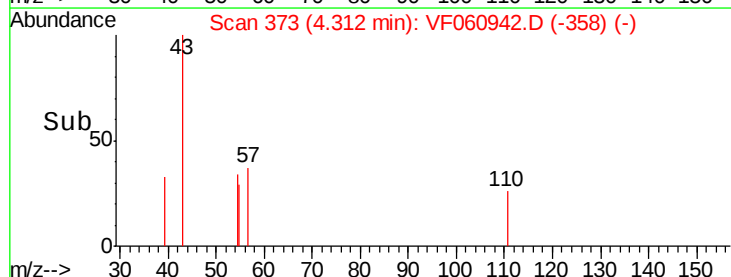
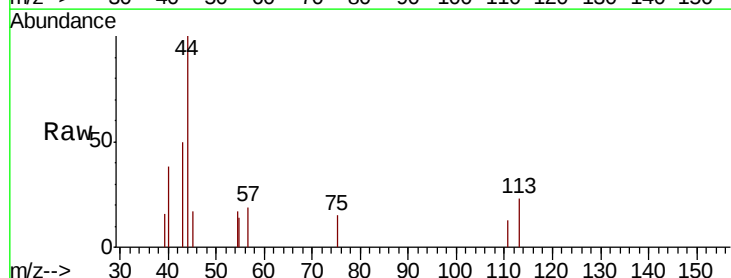
Instrument :
MSVOA_F
ClientSampleId :
SB-2(12.5-14.5)

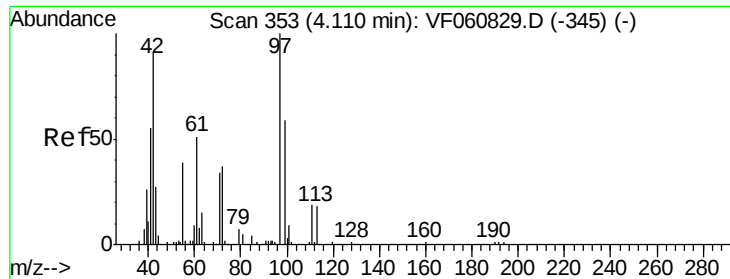
Tot Ion	Ratio	Lower	Upper
84	100		
49	119.7	111.3	166.9
51	39.3	38.0	57.0
86	26.5	49.8	74.8#



#25
2-Butanone
Concen: 1.018 ug/l
RT: 4.31 min Scan# 373
Delta R.T. -0.06 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

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





#29

Tetrahydrofuran

Concen: 1.327 ug/l

RT: 4.09 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF060942.D

Acq: 7 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

SB-2(12.5-14.5)

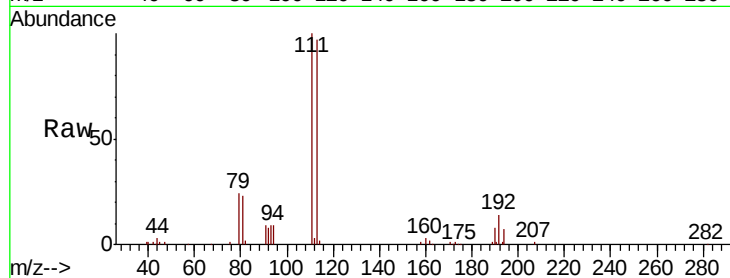
Tot Ion: 42 Resp: 395

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

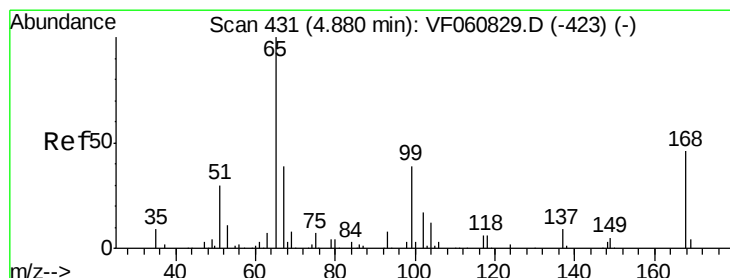
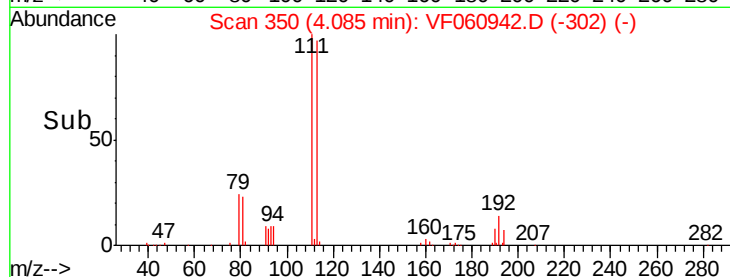
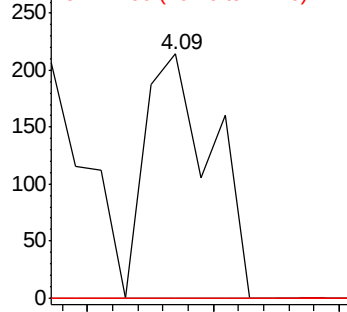
71 0.0 28.7 43.1#



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: 44.820 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.06 min

Lab File: VF060942.D

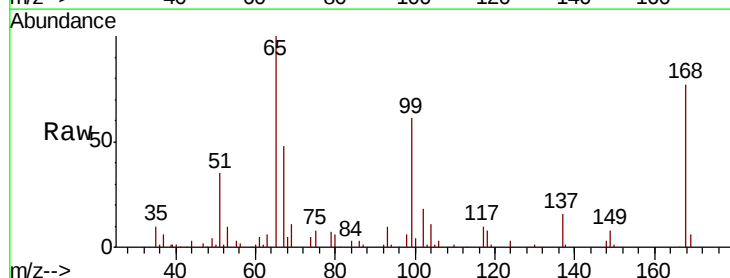
Acq: 7 Dec 2018 21:29

Tgt Ion: 65 Resp: 98671

Ion Ratio Lower Upper

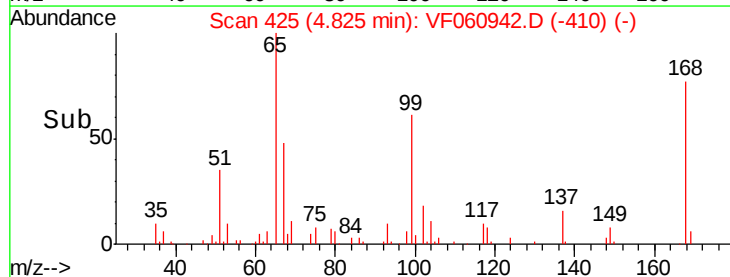
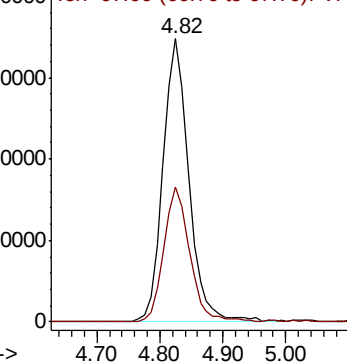
65 100

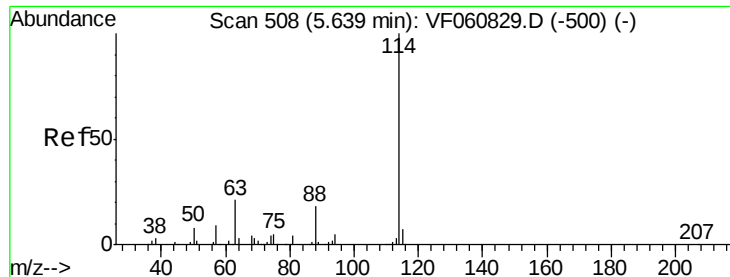
67 47.8 0.0 96.4



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: 5.57 min Scan# 501

Delta R.T. -0.06 min

Lab File: VF060942.D

Acq: 7 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

SB-2(12.5-14.5)

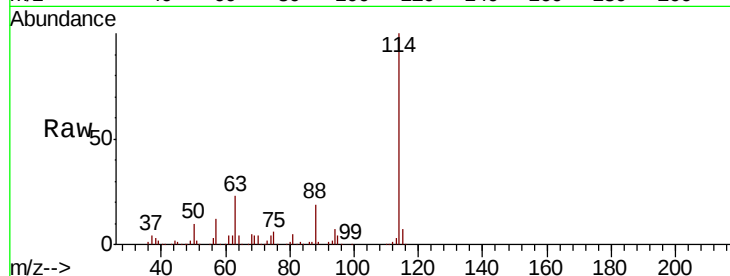
Tot Ion:114 Resp: 318624

Ion Ratio Lower Upper

114 100

63 23.0 0.0 41.6

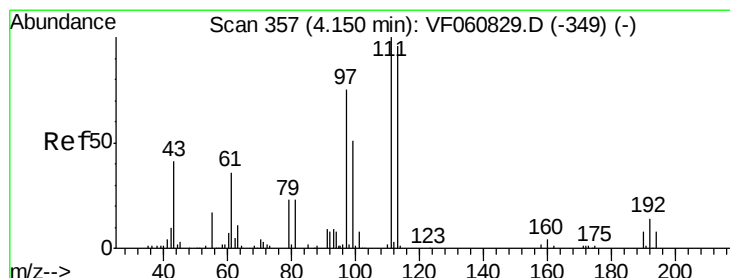
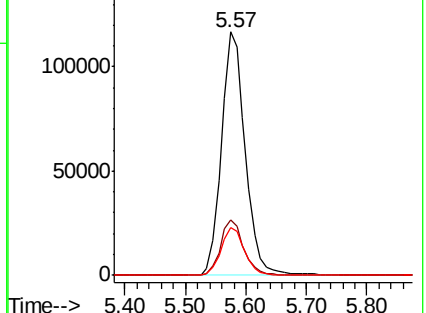
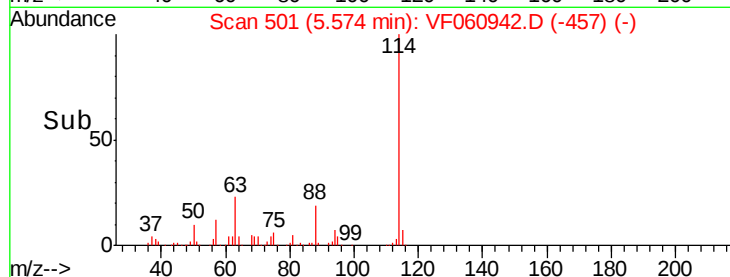
88 19.5 0.0 36.6



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: 42.139 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.06 min

Lab File: VF060942.D

Acq: 7 Dec 2018 21:29

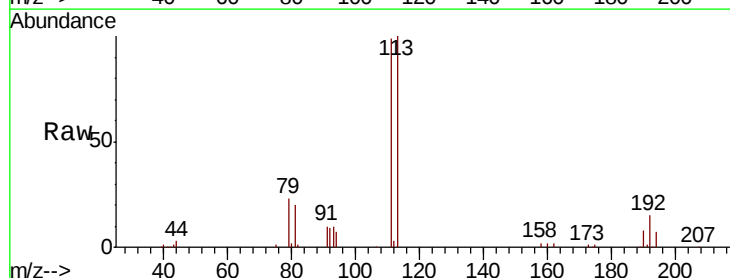
Tgt Ion:113 Resp: 106515

Ion Ratio Lower Upper

113 100

111 98.6 83.0 124.6

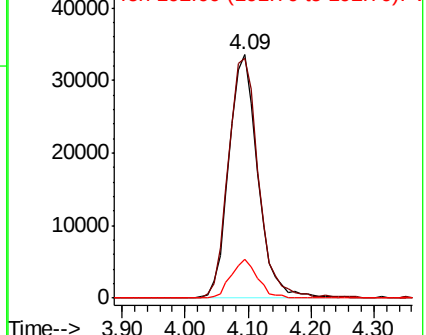
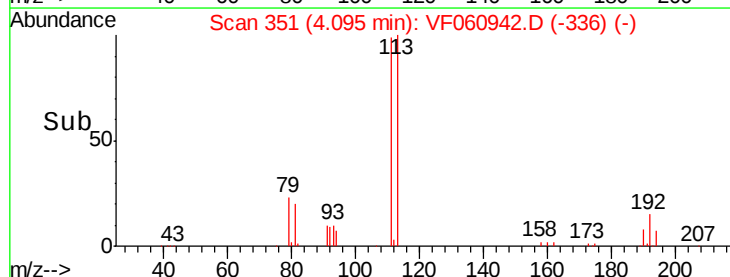
192 15.7 12.3 18.5

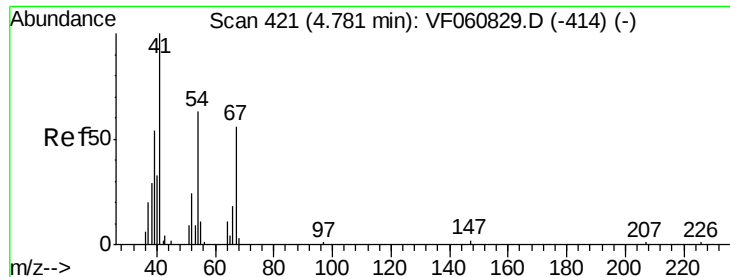


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

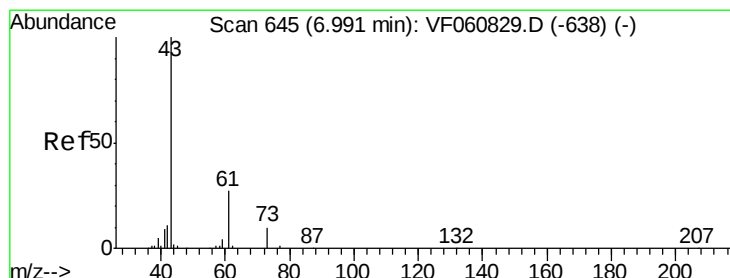
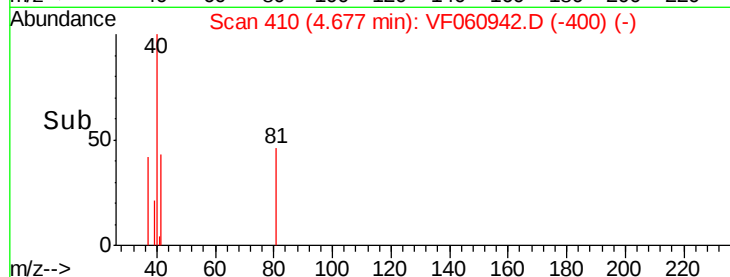
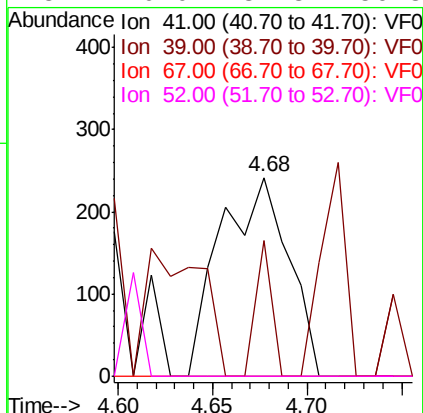
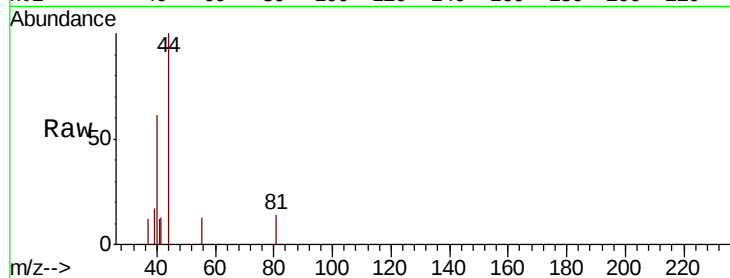




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.68 min Scan# 410
Delta R.T. -0.10 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

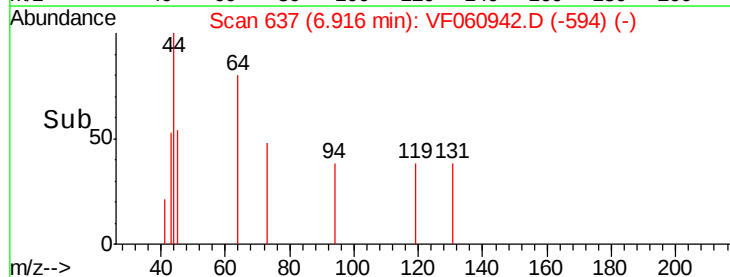
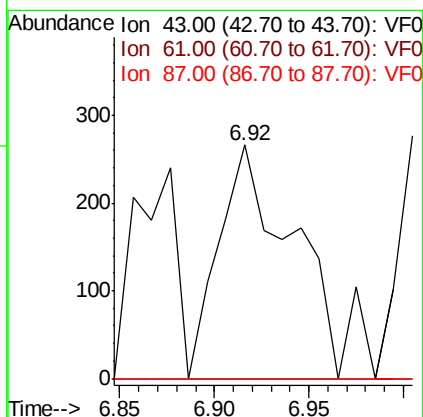
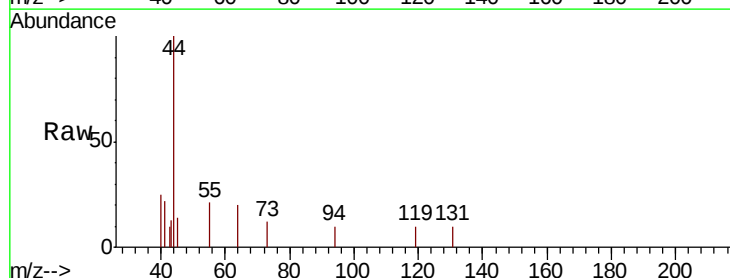
Instrument :
MSVOA_F
ClientSampleId :
SB-2(12.5-14.5)

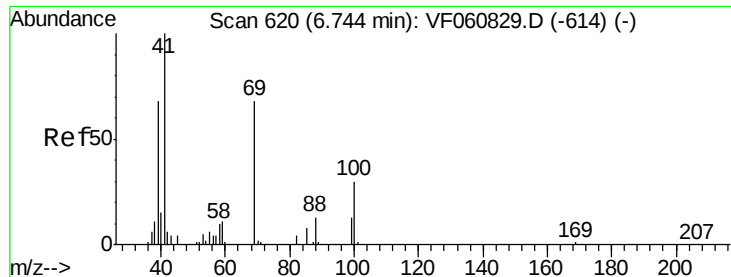
Tot Ion: 41 Resp: 607
Ion Ratio Lower Upper
41 100
39 68.2 53.0 79.6
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.92 min Scan# 637
Delta R.T. -0.07 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

Tgt Ion: 43 Resp: 706
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: 8.409 ug/l

RT: 6.26 min Scan# 570

Delta R.T. -0.49 min

Lab File: VF060942.D

Acq: 7 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

SB-2(12.5-14.5)

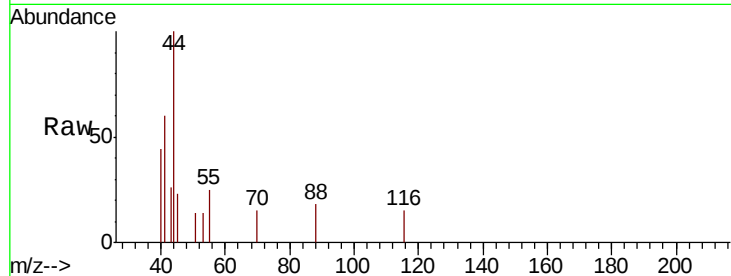
Tot Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

43 142.2 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

400

300

200

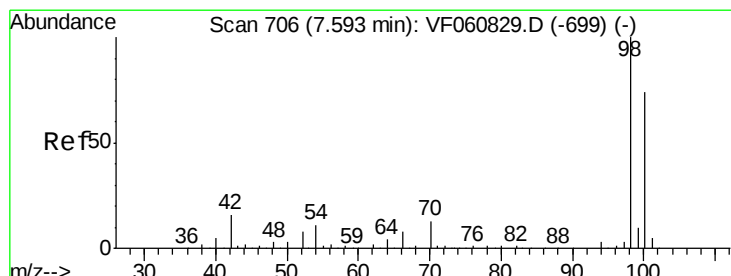
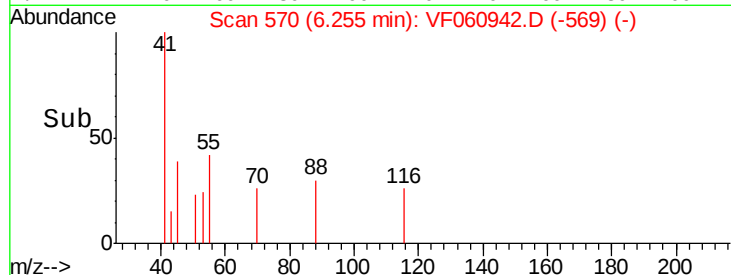
100

0

6.26

6.22 6.24 6.26 6.28

Time-->



#50

Toluene-d8

Concen: 32.256 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.06 min

Lab File: VF060942.D

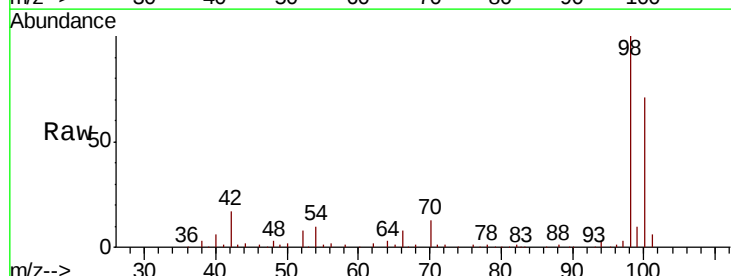
Acq: 7 Dec 2018 21:29

Tgt Ion: 98 Resp: 240172

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

120000

100000

80000

60000

40000

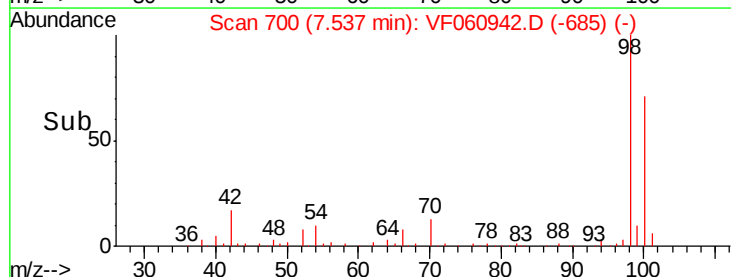
20000

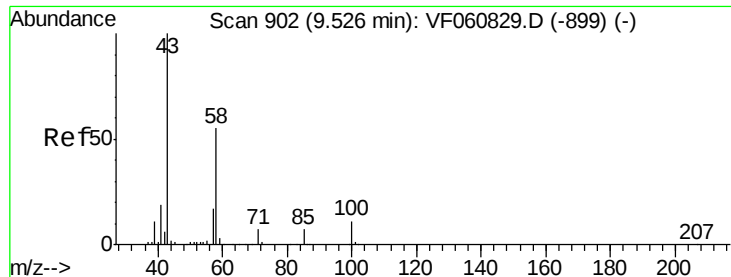
0

7.54

7.40 7.50 7.60 7.70

Time-->

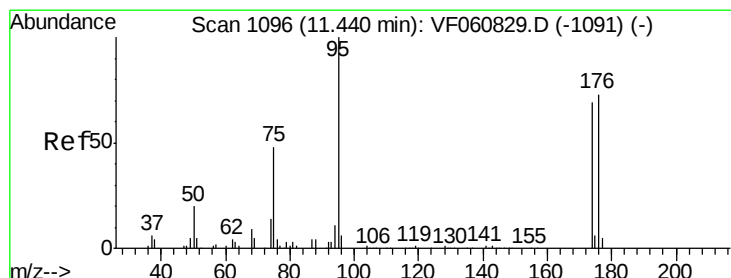
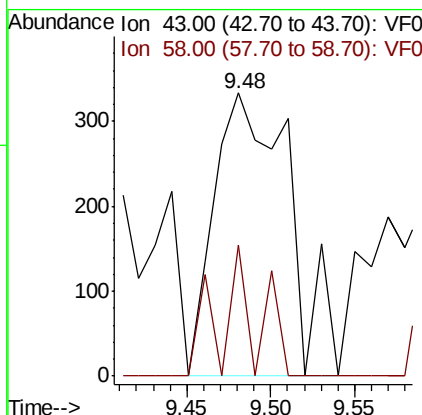
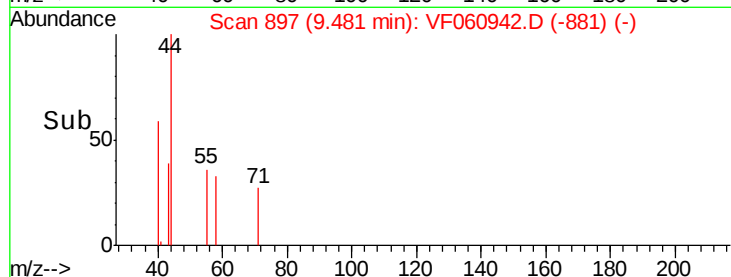
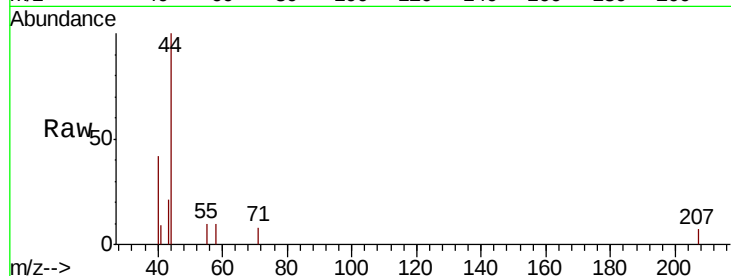




#59
2-Hexanone
Concen: 1.112 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.05 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

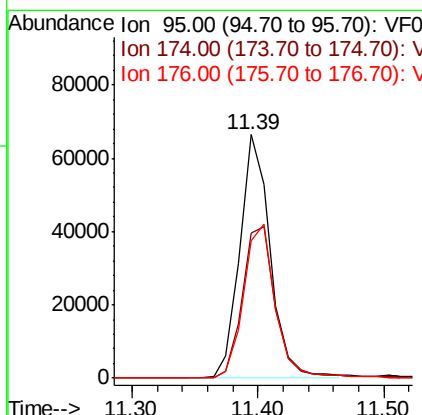
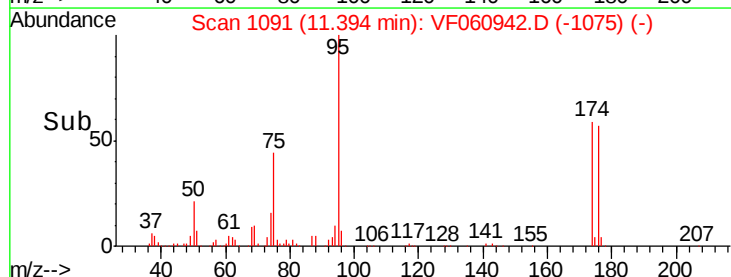
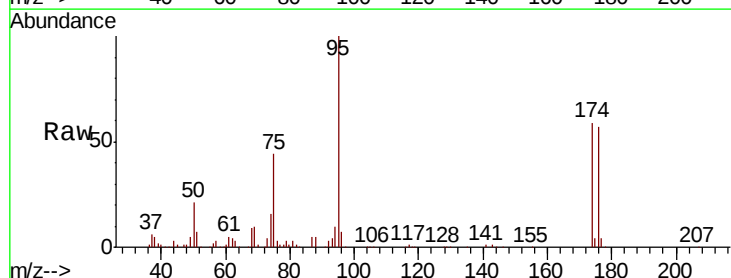
Instrument :
MSVOA_F
ClientSampleId :
SB-2(12.5-14.5)

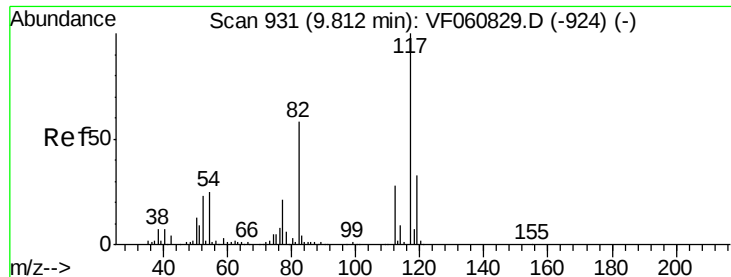
Tot Ion: 43 Resp: 1033
Ion Ratio Lower Upper
43 100
58 46.5 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 32.951 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. -0.05 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

Tgt Ion: 95 Resp: 111508
Ion Ratio Lower Upper
95 100
174 59.5 0.0 138.2
176 56.6 0.0 146.2

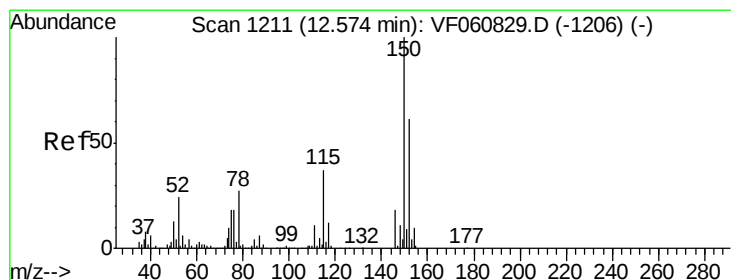
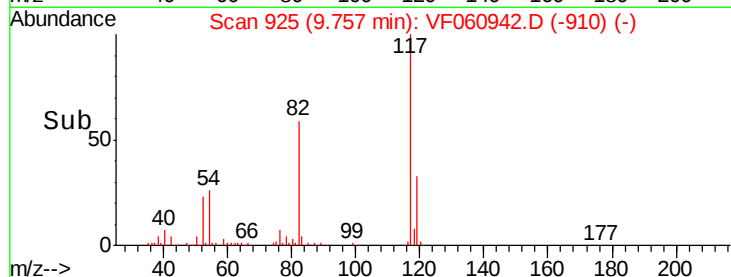
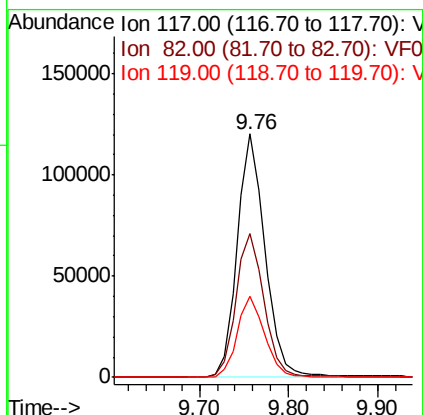
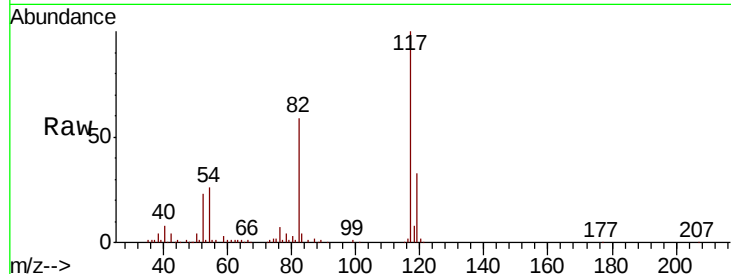




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 925
Delta R.T. -0.06 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

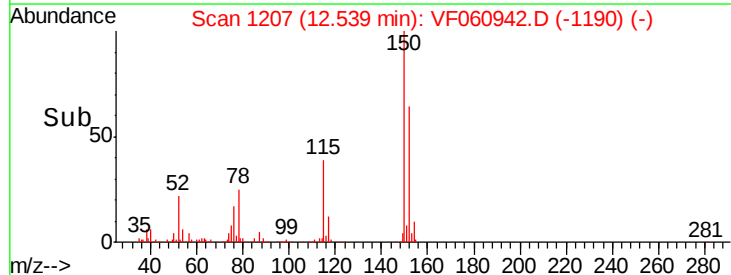
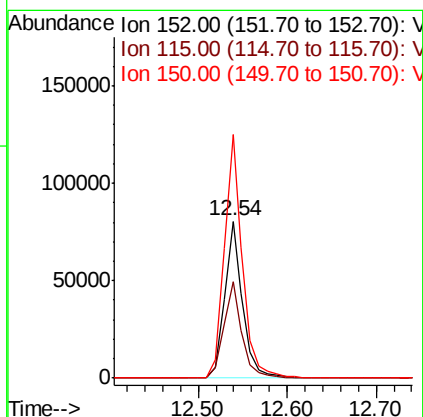
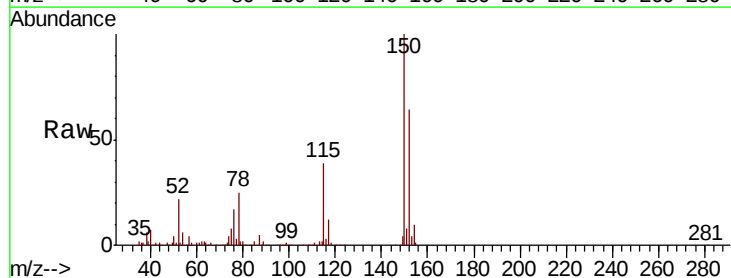
Instrument :
MSVOA_F
ClientSampleId :
SB-2(12.5-14.5)

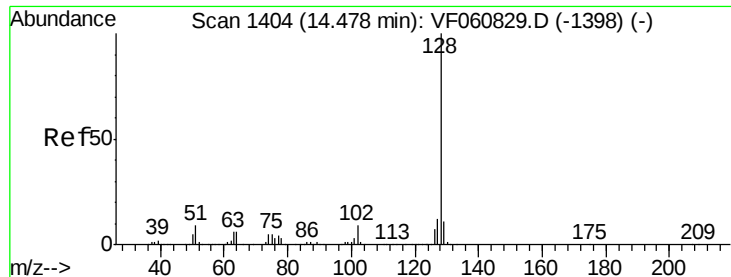
Tot Ion	Ratio	Lower	Upper
117	100		
82	59.1	46.6	69.8
119	33.1	26.4	39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.04 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.1	90.5
150	155.2	0.0	327.6





#95
Naphthalene
Concen: Below Cal
RT: 14.44 min Scan# 1400
Delta R.T. -0.03 min
Lab File: VF060942.D
Acq: 7 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
SB-2(12.5-14.5)

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.3	9.9	14.9
129	16.3	9.1	13.7

