

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060988.D
 Acq On : 11 Dec 2018 20:51
 Operator : VA/AP
 Sample : J6214-50RE
 Misc : 5.17g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-7-(12.5-14.5)RE

Quant Time: Dec 12 06:29:43 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	4.88	168	61921	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.60	114	99585	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	74382	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	29695	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	38155	52.31	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	104.62%	
35) Dibromofluoromethane	4.12	113	39125	49.52	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	99.04%	
50) Toluene-d8	7.56	98	68829	29.58	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	59.16%	
62) 4-Bromofluorobenzene	11.42	95	34641	32.75	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	65.50%	

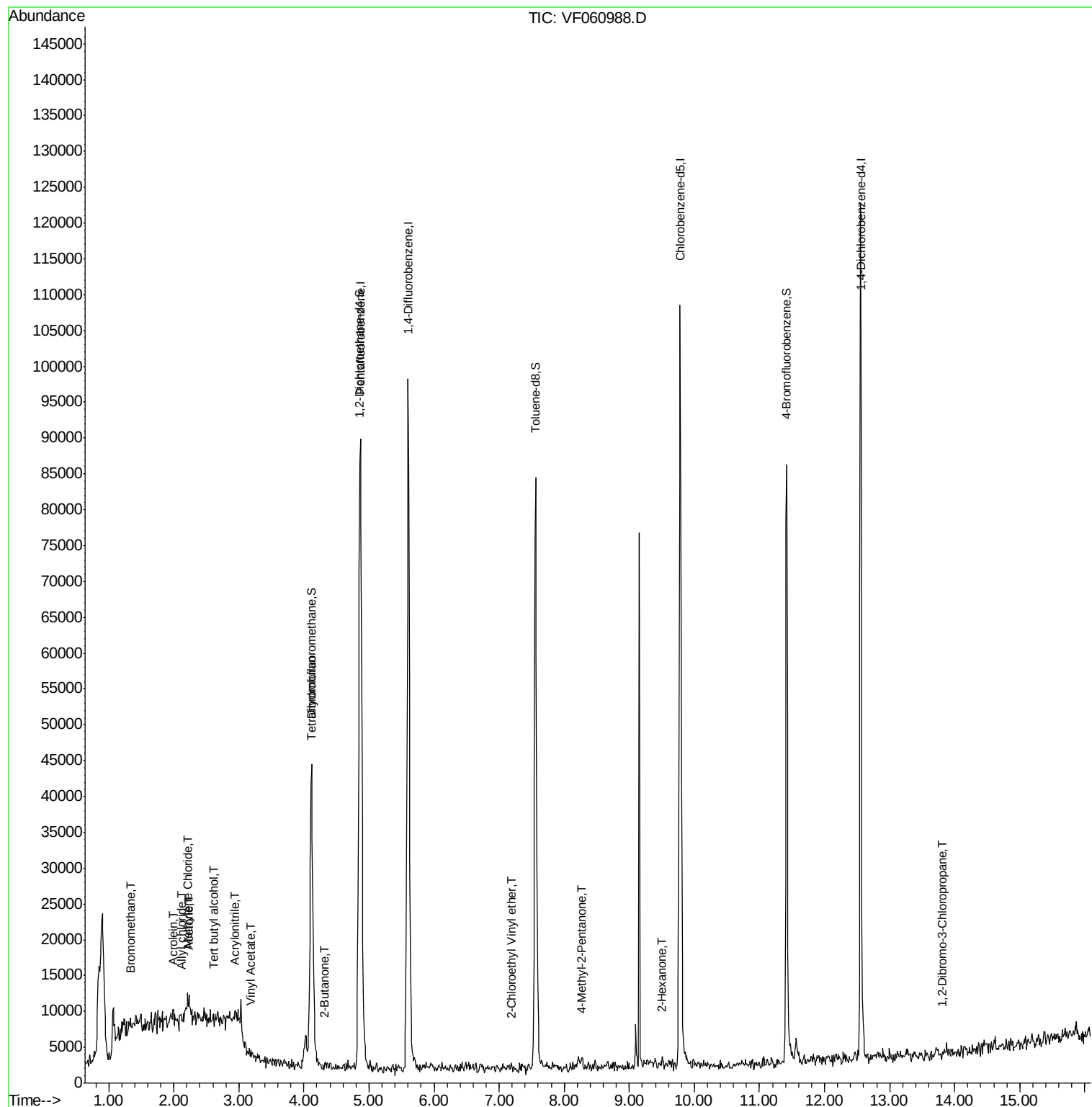
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.33	94	768	1.938	ug/l #	37
11) Tert butyl alcohol	2.60	59	133	4.448	ug/l #	1
13) Acrolein	1.99	56	640	22.590	ug/l	86
14) Allyl chloride	2.11	41	688	1.126	ug/l #	74
15) Acrylonitrile	2.95	53	420	6.265	ug/l #	67
16) Acetone	2.24	43	1279	9.508	ug/l #	65
20) Methylene Chloride	2.22	84	1756	3.558	ug/l #	75
23) Vinyl Acetate	3.18	43	813	1.069	ug/l #	80
25) 2-Butanone	4.32	43	280	1.203	ug/l #	57
29) Tetrahydrofuran	4.10	42	201	2.038	ug/l #	37
41) Methacrylonitrile	4.77	41	426	Below Cal	#	52
43) Isopropyl Acetate	6.96	43	305	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.27	43	1176	2.841	ug/l #	38
58) 2-Chloroethyl Vinyl ether	7.20	63	70	1.233	ug/l #	46
59) 2-Hexanone	9.51	43	1277	4.397	ug/l	72
92) 1,2-Dibromo-3-Chloropropan	13.80	75	76	1.018	ug/l #	1
95) Naphthalene	14.46	128	924	Below Cal	#	69

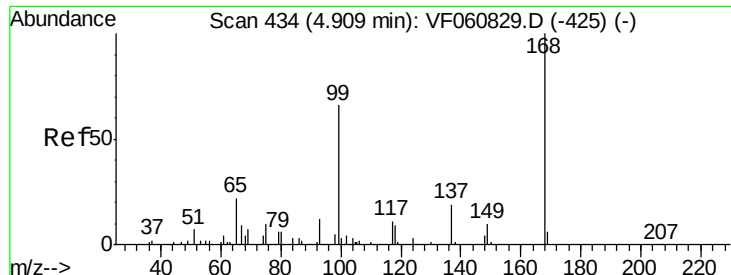
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SB-7-(12.5-14.5)RE

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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: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

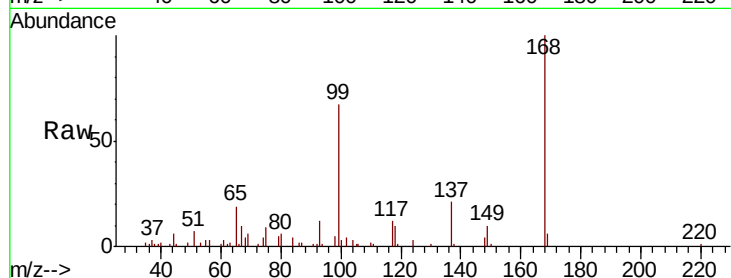
SB-7-(12.5-14.5)RE

Tot Ion:168 Resp: 61921

Ion Ratio Lower Upper

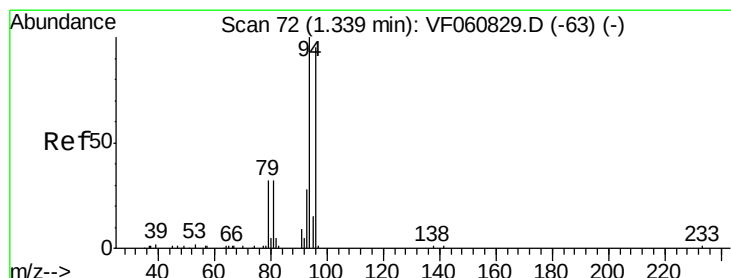
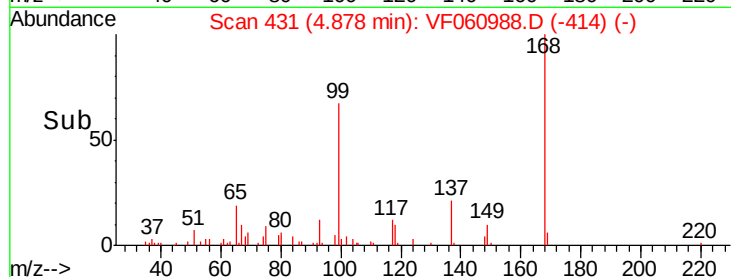
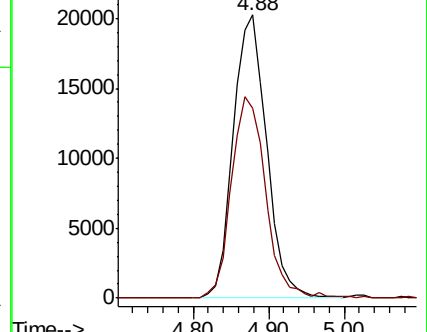
168 100

99 67.1 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#5

Bromomethane

Concen: 1.938 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060988.D

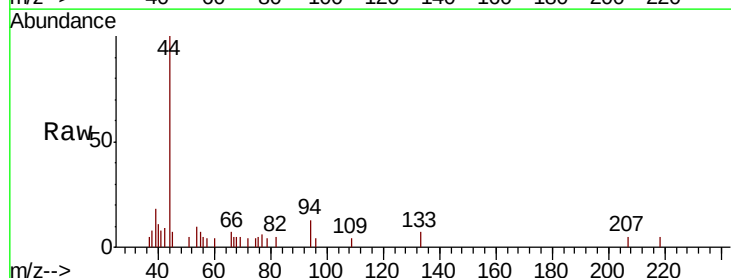
Acq: 11 Dec 2018 20:51

Tgt Ion: 94 Resp: 768

Ion Ratio Lower Upper

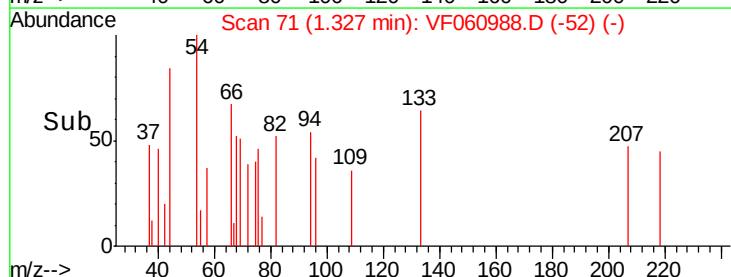
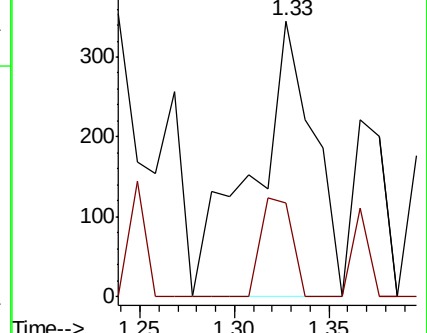
94 100

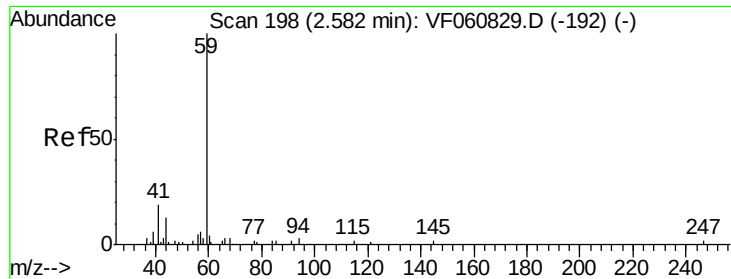
96 34.2 75.9 113.9#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

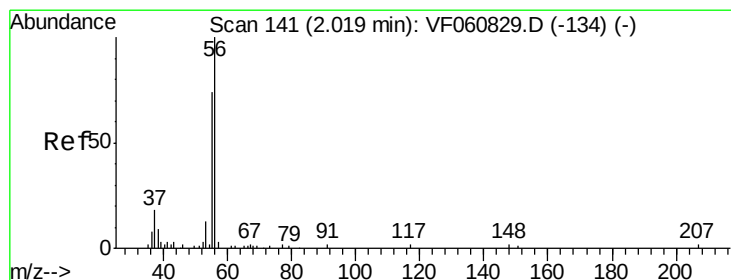
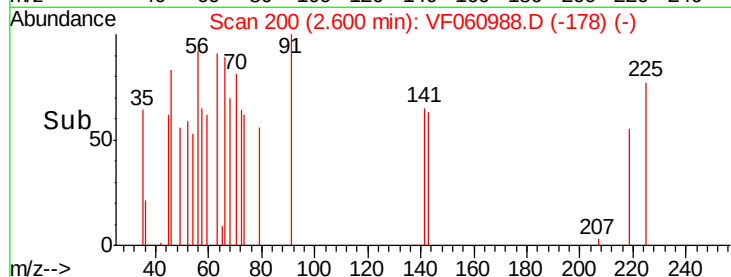
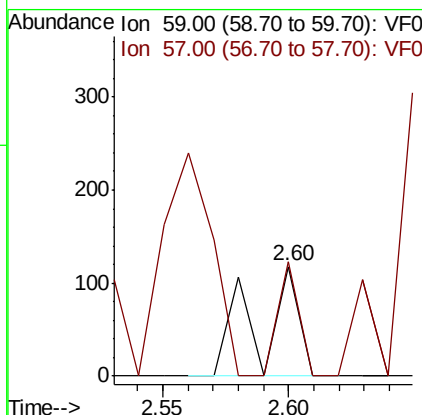
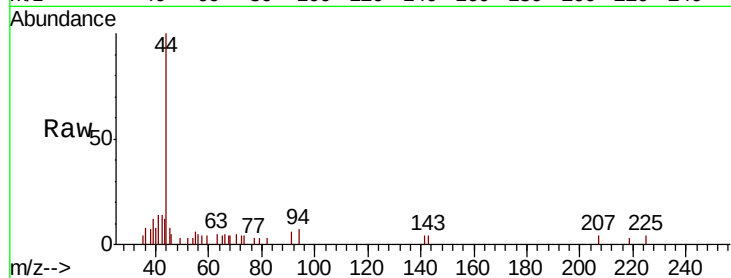




#11
Tert butyl alcohol
Concen: 4.448 ug/l
RT: 2.60 min Scan# 200
Delta R.T. 0.02 min
Lab File: VF060988.D
Acq: 11 Dec 2018 20:51

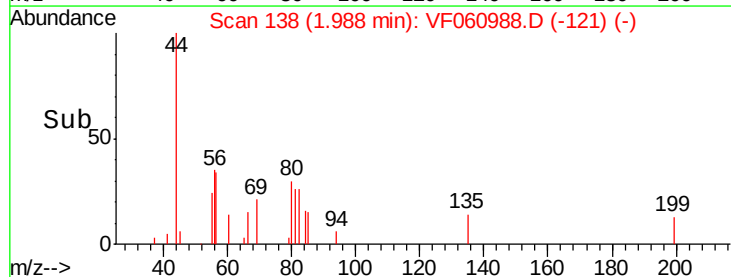
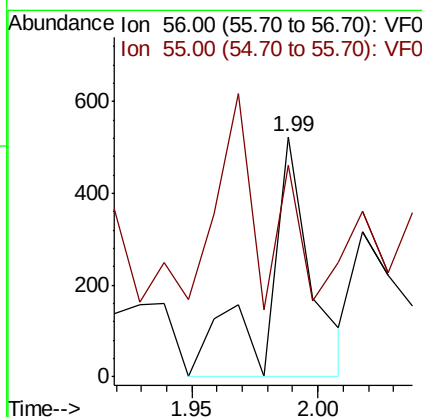
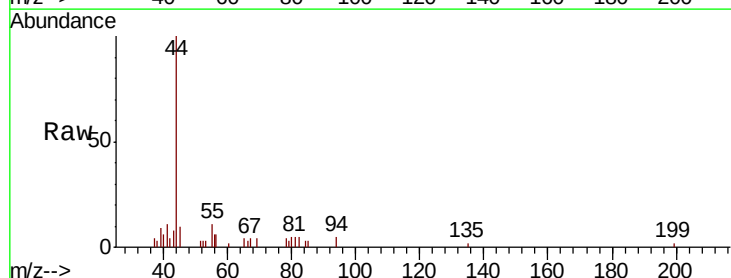
Instrument :
MSVOA_F
ClientSampleId :
SB-7-(12.5-14.5)RE

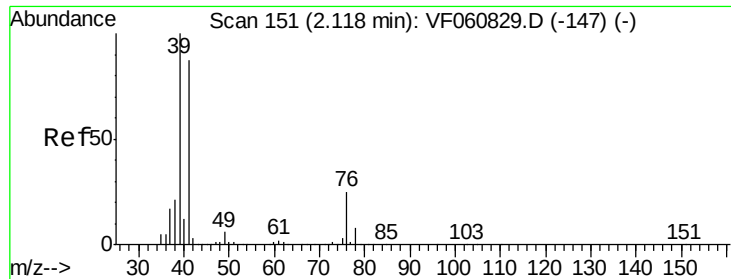
Tot Ion: 59 Resp: 133
Ion Ratio Lower Upper
59 100
57 104.2 12.7 19.1#



#13
Acrolein
Concen: 22.590 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.03 min
Lab File: VF060988.D
Acq: 11 Dec 2018 20:51

Tgt Ion: 56 Resp: 640
Ion Ratio Lower Upper
56 100
55 88.3 61.2 91.8

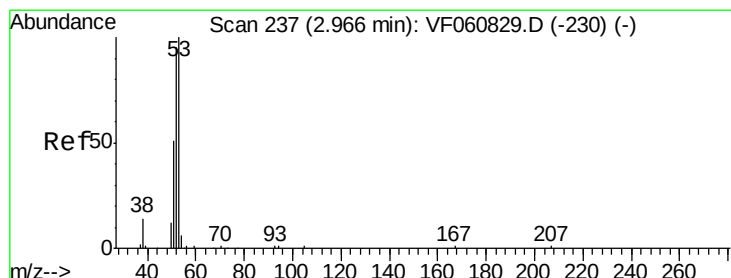
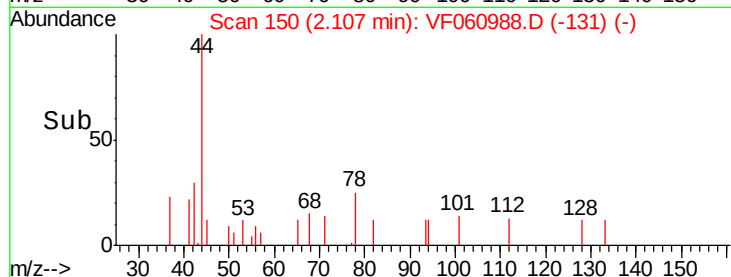
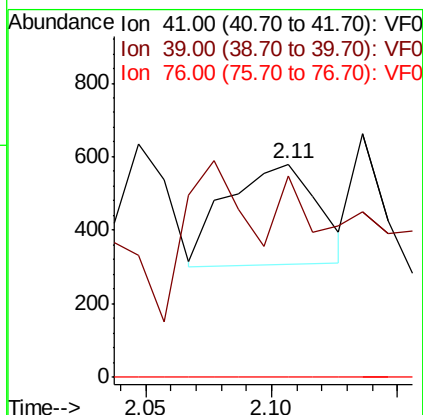
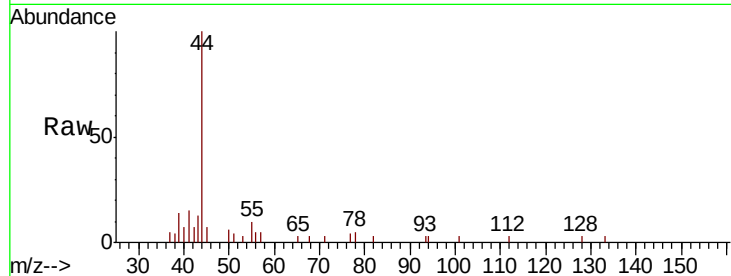




#14
Allvl chloride
Concen: 1.126 ug/l
RT: 2.11 min Scan# 150
Delta R.T. -0.01 min
Lab File: VF060988.D
Acq: 11 Dec 2018 20:51

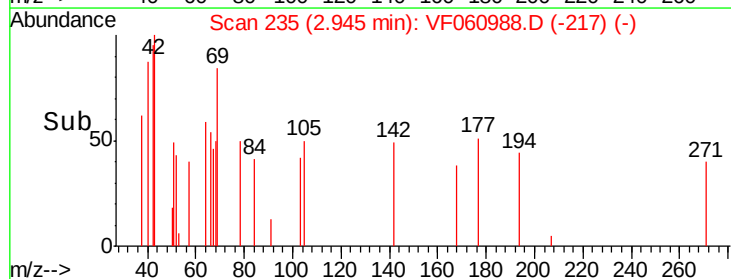
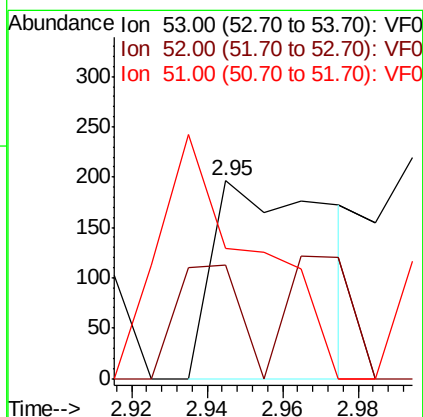
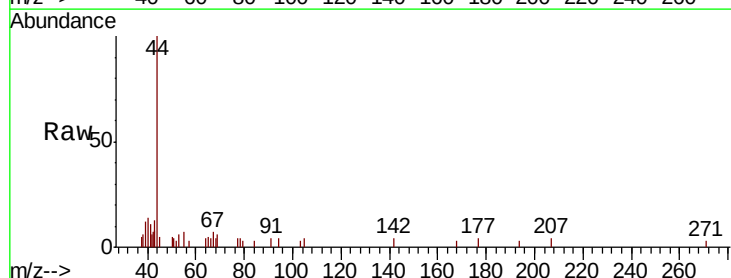
Instrument :
MSVOA_F
ClientSampleId :
SB-7-(12.5-14.5)RE

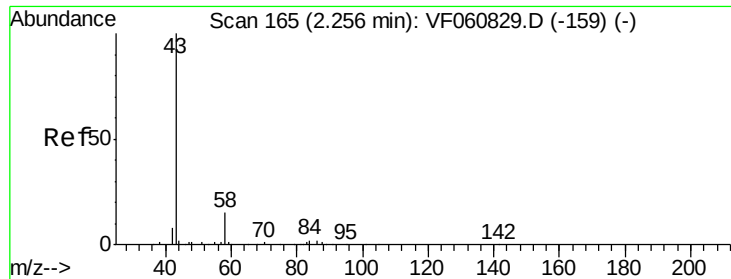
Tot Ion: 41 Resp: 688
Ion Ratio Lower Upper
41 100
39 94.3 91.7 137.5
76 0.0 23.5 35.3#



#15
Acrylonitrile
Concen: 6.265 ug/l
RT: 2.95 min Scan# 235
Delta R.T. -0.02 min
Lab File: VF060988.D
Acq: 11 Dec 2018 20:51

Tgt Ion: 53 Resp: 420
Ion Ratio Lower Upper
53 100
52 57.1 76.5 114.7#
51 65.8 40.7 61.1#





#16

Acetone

Concen: 9.508 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

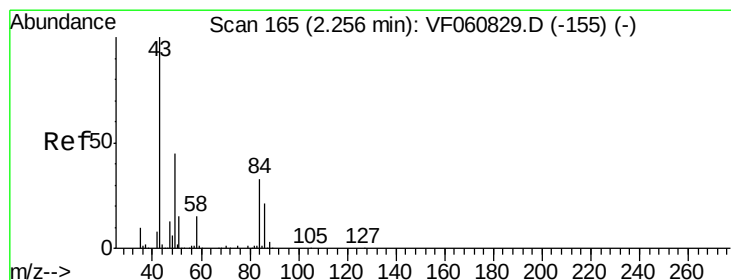
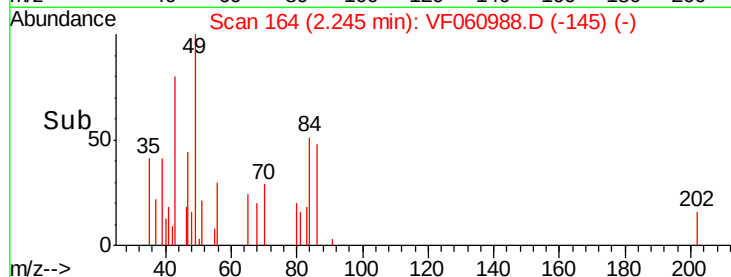
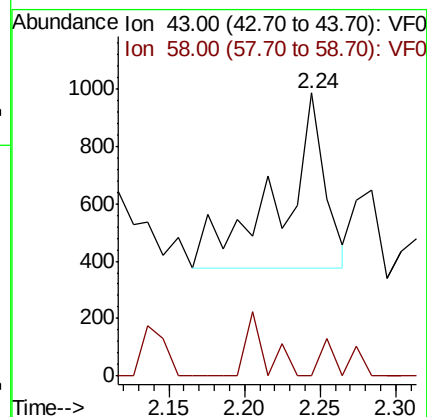
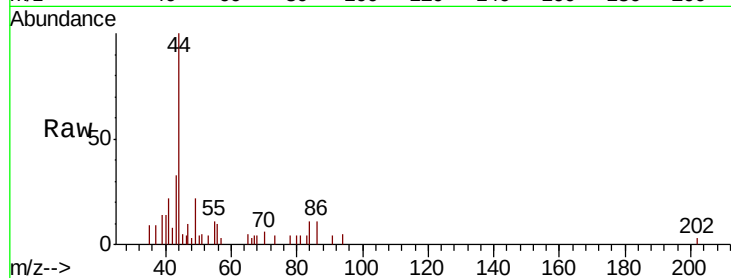
SB-7-(12.5-14.5)RE

Tot Ion: 43 Resp: 1279

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#



#20

Methylene Chloride

Concen: 3.558 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.04 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Tgt Ion: 84 Resp: 1756

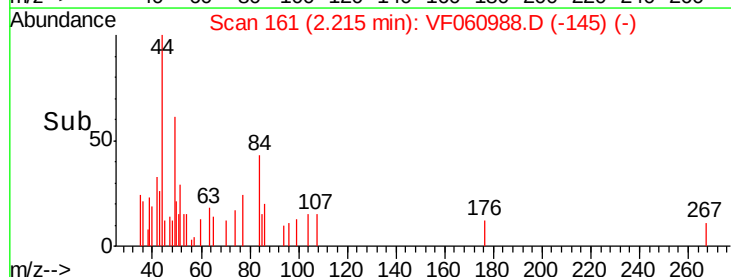
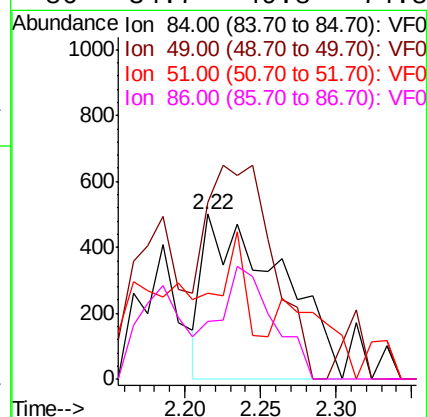
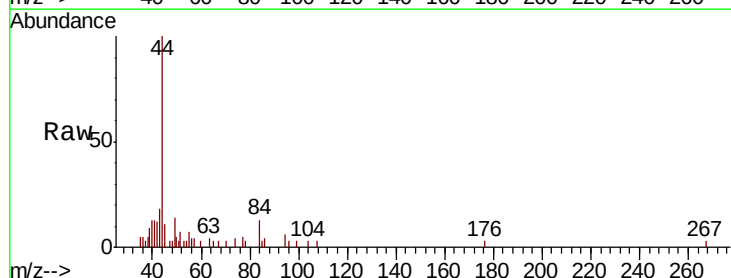
Ion Ratio Lower Upper

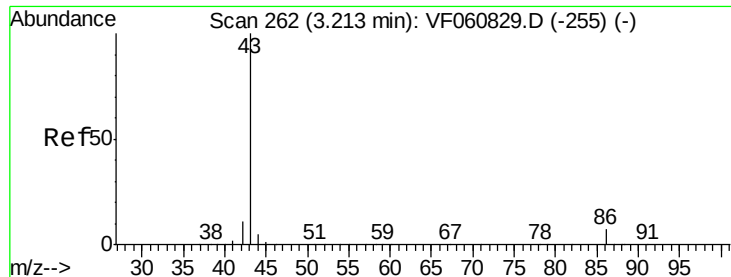
84 100

49 107.4 111.3 166.9#

51 51.7 38.0 57.0

86 34.7 49.8 74.8#





#23

Vinyl Acetate

Concen: 1.069 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

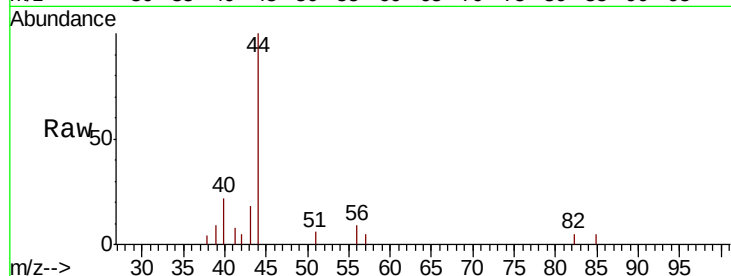
SB-7-(12.5-14.5)RE

Tot Ion: 43 Resp: 813

Ion Ratio Lower Upper

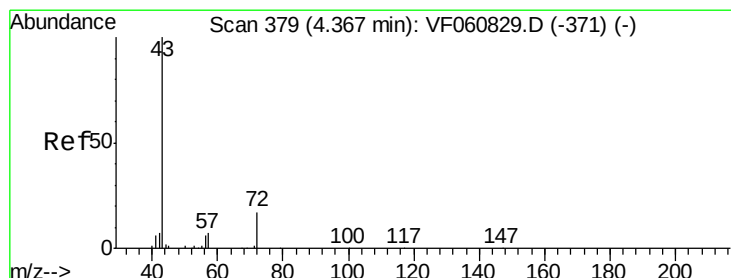
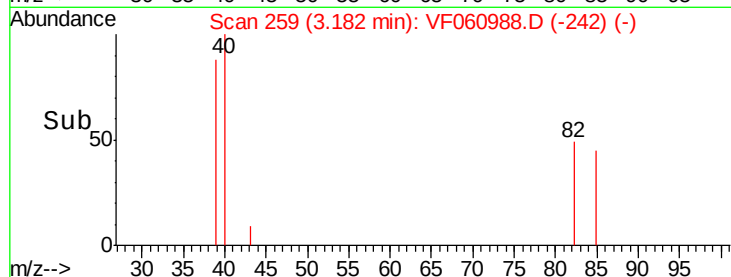
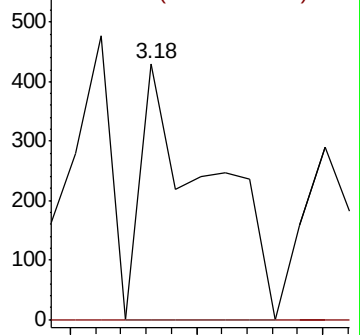
43 100

86 0.0 5.4 8.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.203 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.05 min

Lab File: VF060988.D

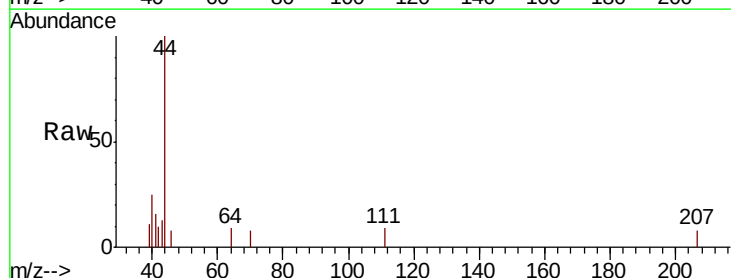
Acq: 11 Dec 2018 20:51

Tgt Ion: 43 Resp: 280

Ion Ratio Lower Upper

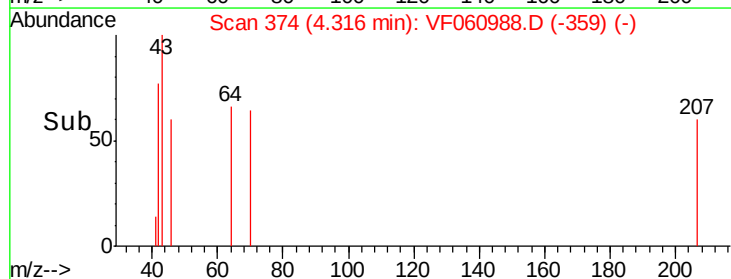
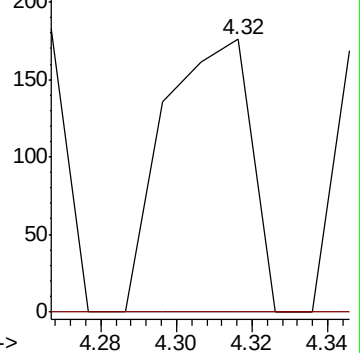
43 100

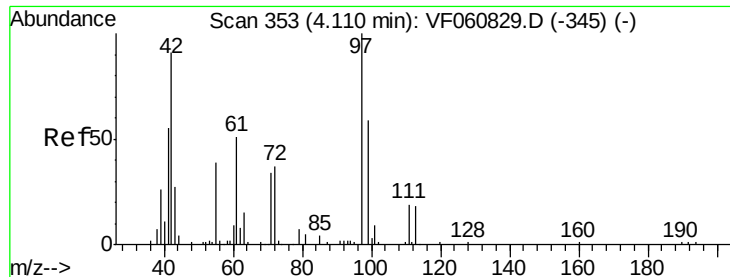
72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.038 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(12.5-14.5)RE

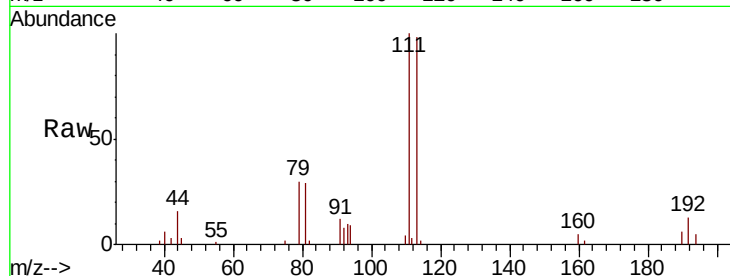
Tot Ion: 42 Resp: 201

Ion Ratio Lower Upper

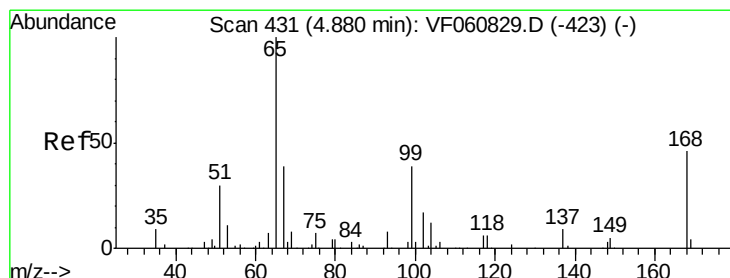
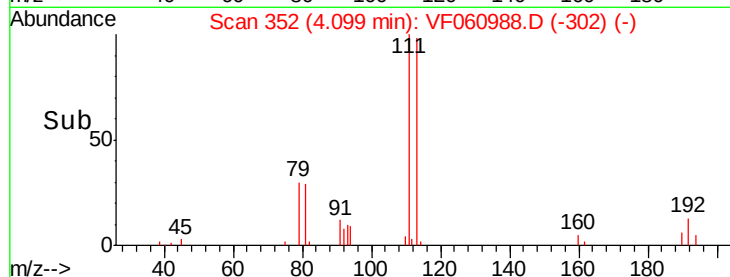
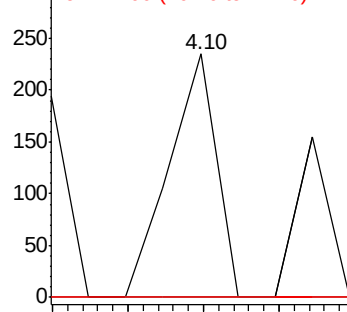
42 100

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: 52.307 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060988.D

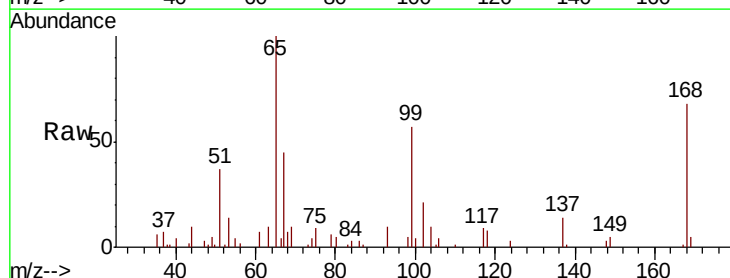
Acq: 11 Dec 2018 20:51

Tgt Ion: 65 Resp: 38155

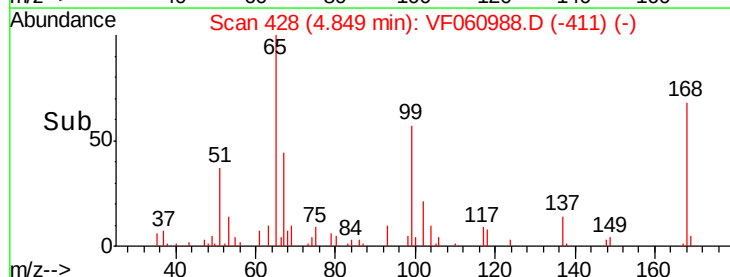
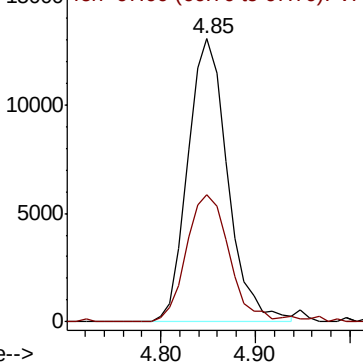
Ion Ratio Lower Upper

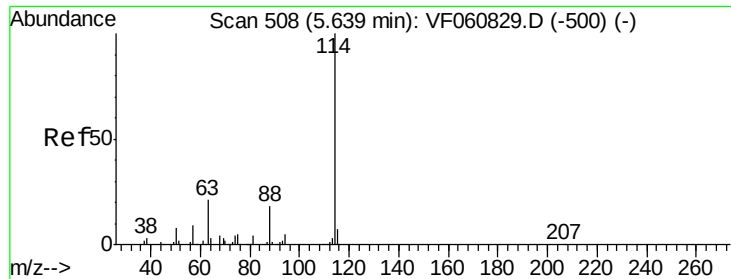
65 100

67 45.1 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

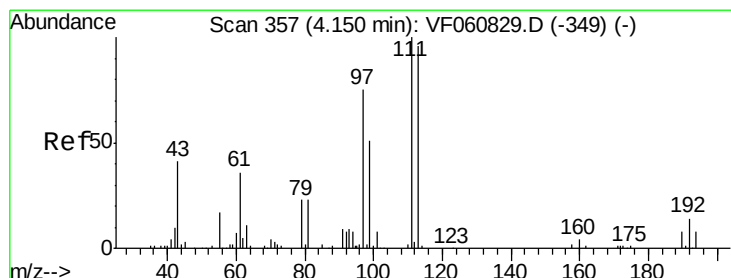
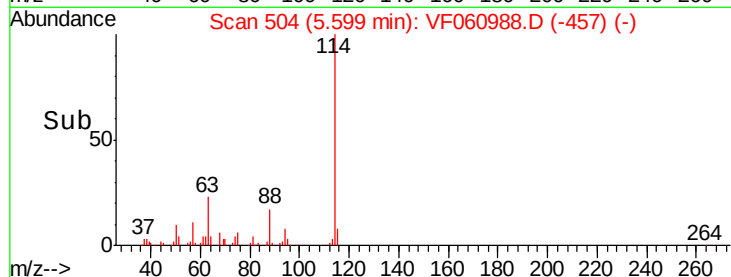
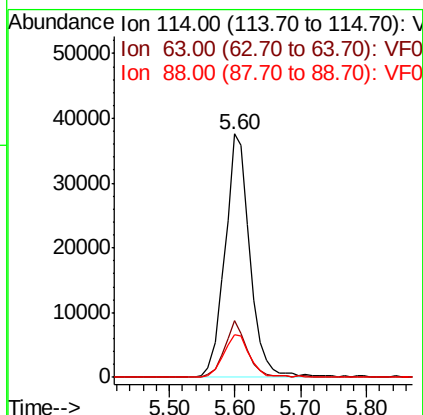
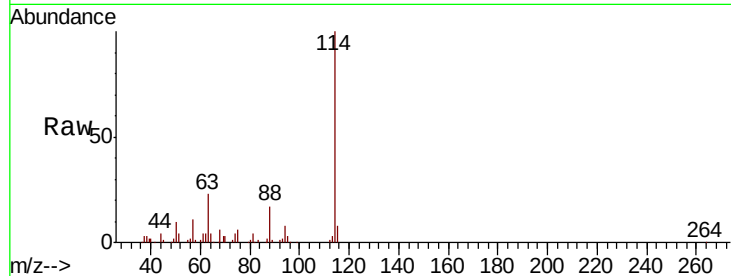




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF060988.D
 Acq: 11 Dec 2018 20:51

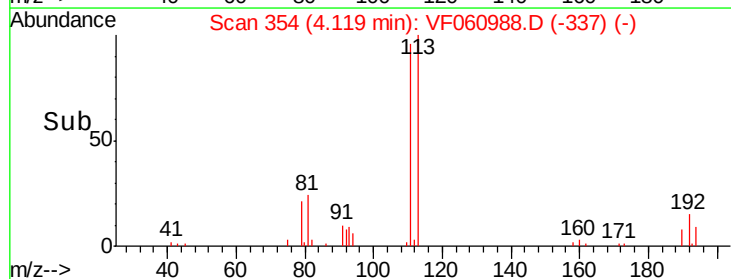
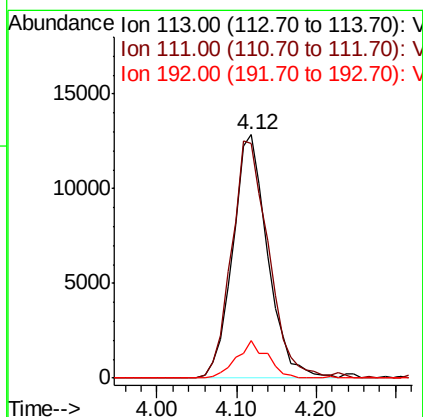
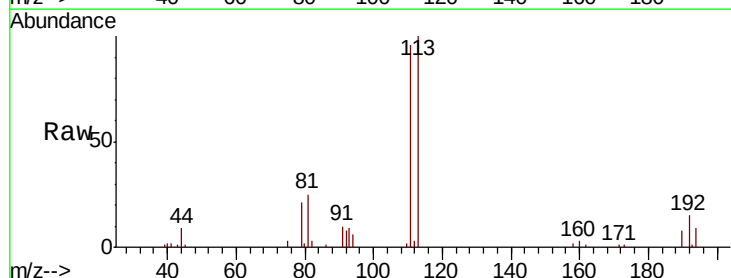
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-7-(12.5-14.5)RE

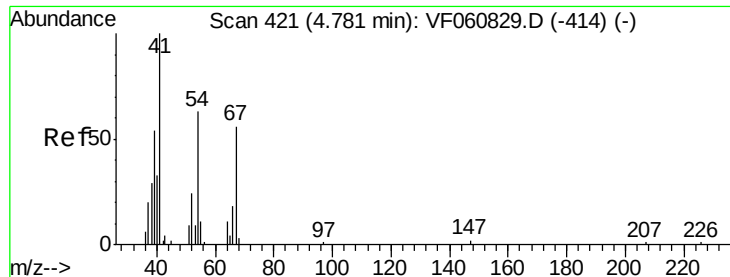
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	41.6
88	17.5	0.0	36.6



#35
 Dibromofluoromethane
 Concen: 49.523 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: VF060988.D
 Acq: 11 Dec 2018 20:51

Tgt Ion	Ratio	Lower	Upper
113	100		
111	96.3	83.0	124.6
192	15.5	12.3	18.5





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.77 min Scan# 420

Delta R.T. -0.01 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(12.5-14.5)RE

Tot Ion: 41 Resp: 426

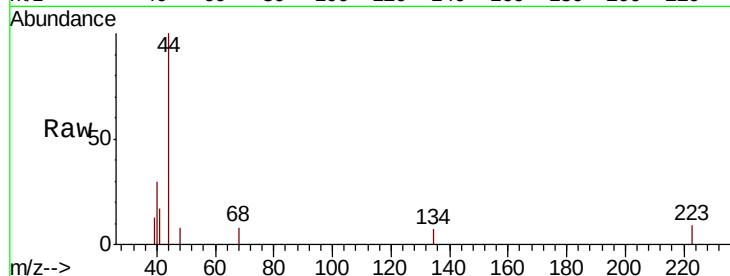
Ion Ratio Lower Upper

41 100

39 73.4 53.0 79.6

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

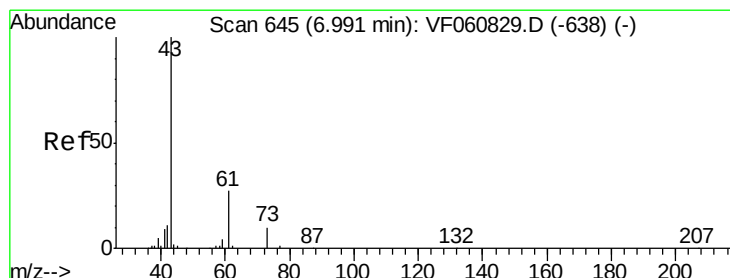
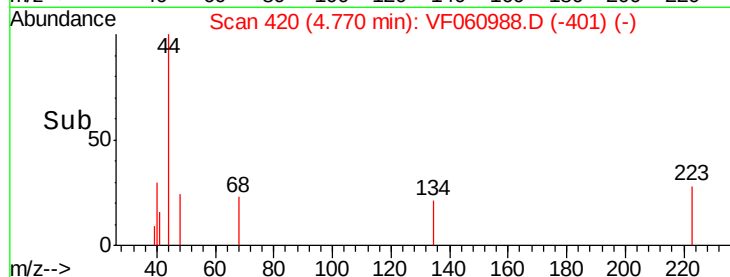
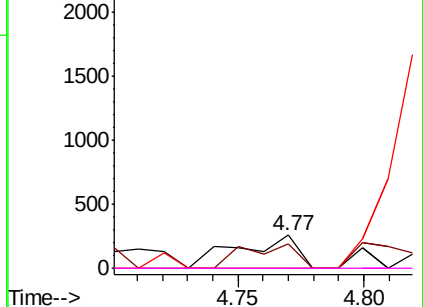


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: Below Cal

RT: 6.96 min Scan# 642

Delta R.T. -0.03 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

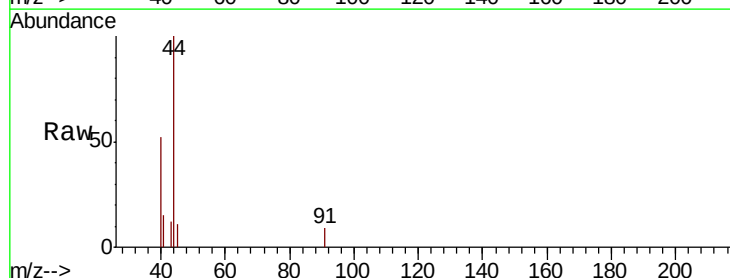
Tgt Ion: 43 Resp: 305

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

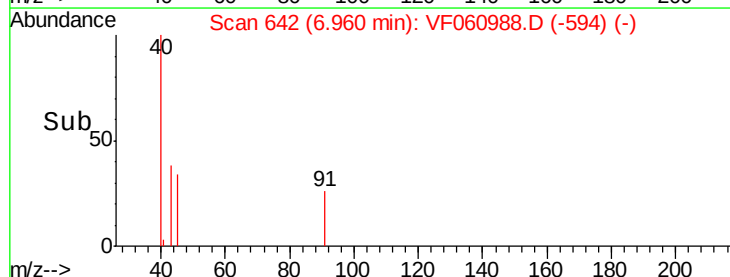
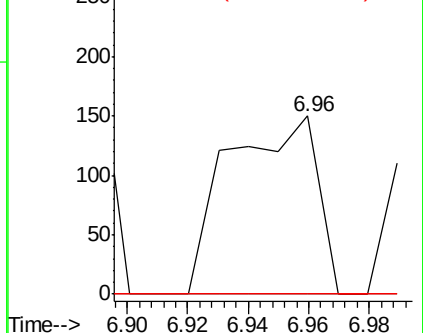
87 0.0 0.2 0.4#

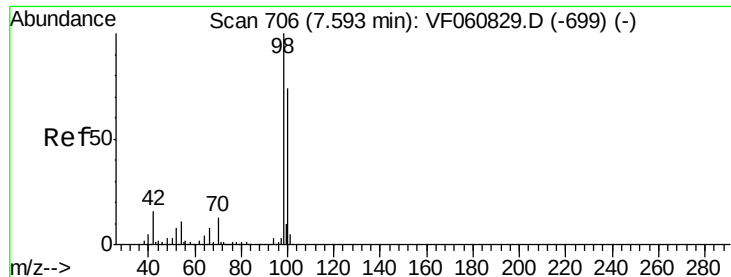


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#50

Toluene-d8

Concen: 29.576 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

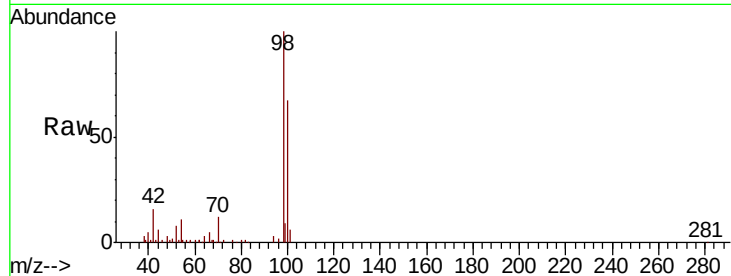
SB-7-(12.5-14.5)RE

Tot Ion: 98 Resp: 68829

Ion Ratio Lower Upper

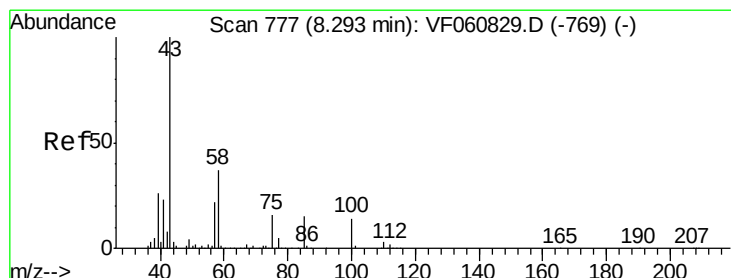
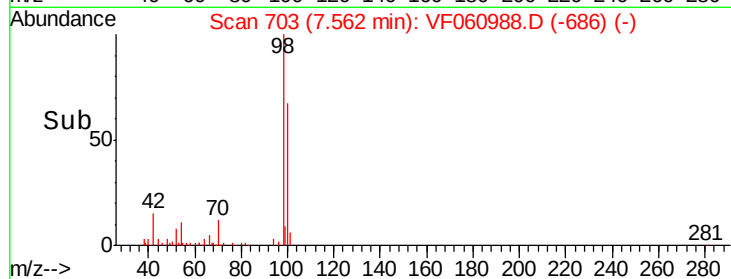
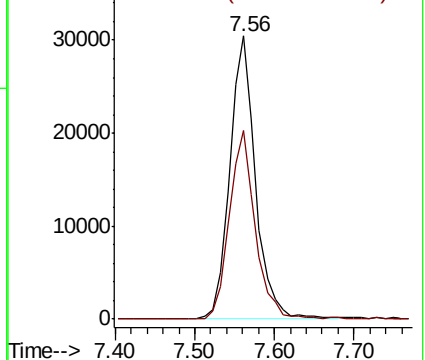
98 100

100 66.5 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: 2.841 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF060988.D

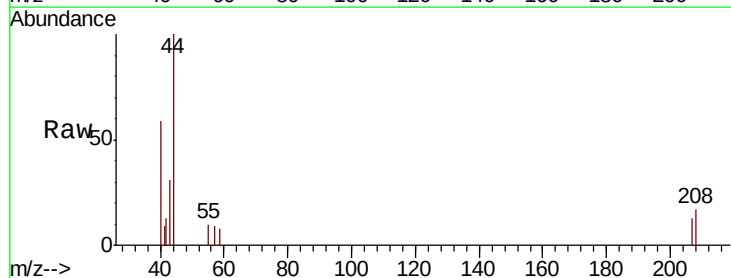
Acq: 11 Dec 2018 20:51

Tgt Ion: 43 Resp: 1176

Ion Ratio Lower Upper

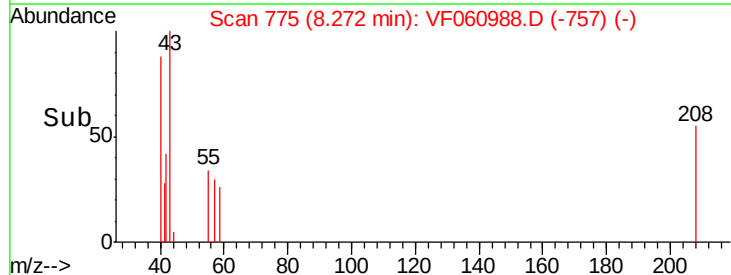
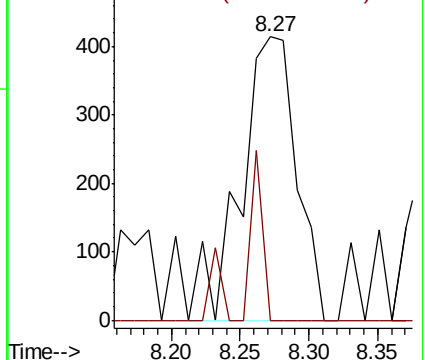
43 100

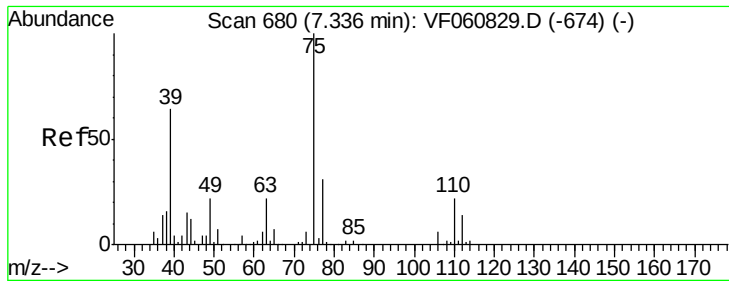
58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 1.233 ug/l

RT: 7.20 min Scan# 666

Delta R.T. -0.14 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

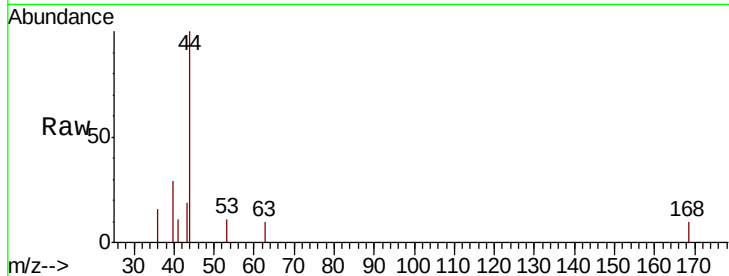
SB-7-(12.5-14.5)RE

Tot Ion: 63 Resp: 70

Ion Ratio Lower Upper

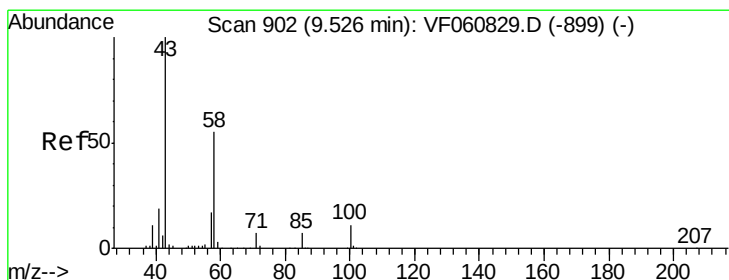
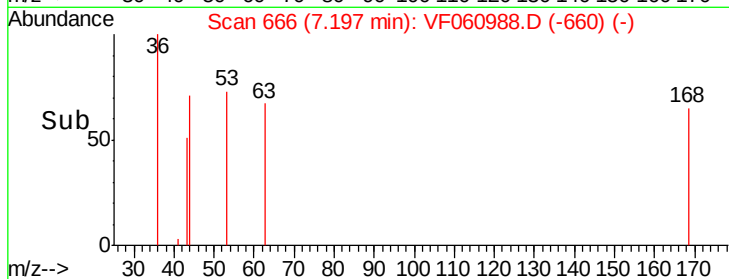
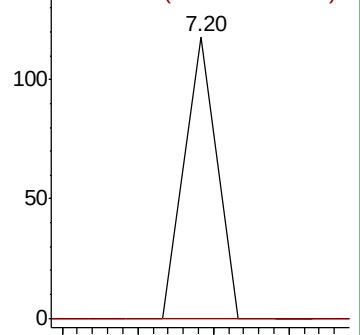
63 100

106 0.0 23.0 34.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0



#59

2-Hexanone

Concen: 4.397 ug/l

RT: 9.51 min Scan# 901

Delta R.T. -0.01 min

Lab File: VF060988.D

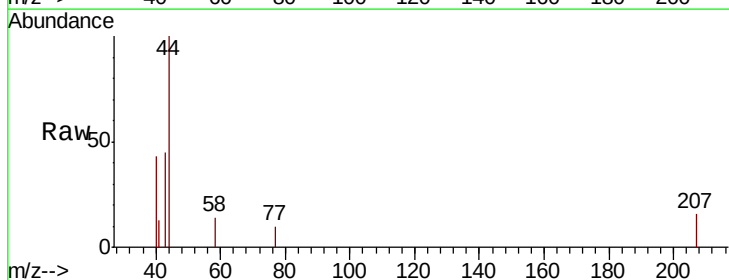
Acq: 11 Dec 2018 20:51

Tgt Ion: 43 Resp: 1277

Ion Ratio Lower Upper

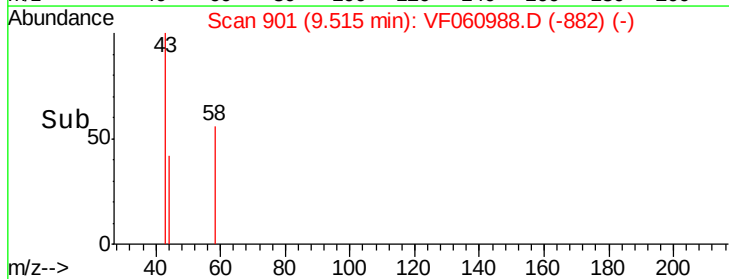
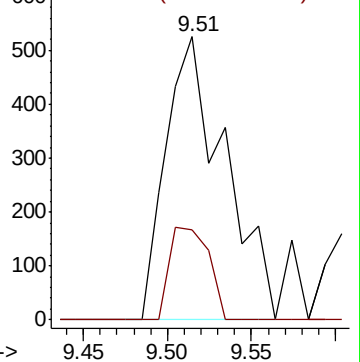
43 100

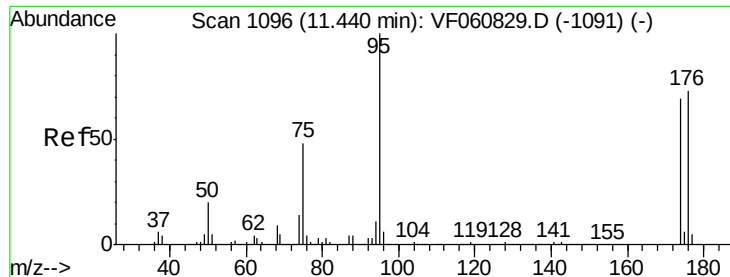
58 31.8 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 32.752 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(12.5-14.5)RE

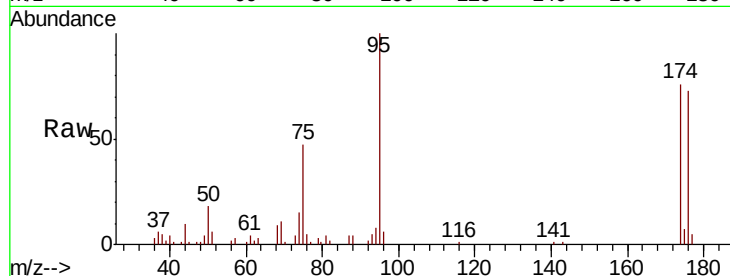
Tot Ion: 95 Resp: 34641

Ion Ratio Lower Upper

95 100

174 76.0 0.0 138.2

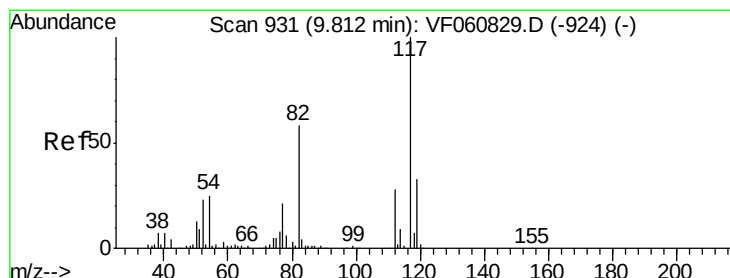
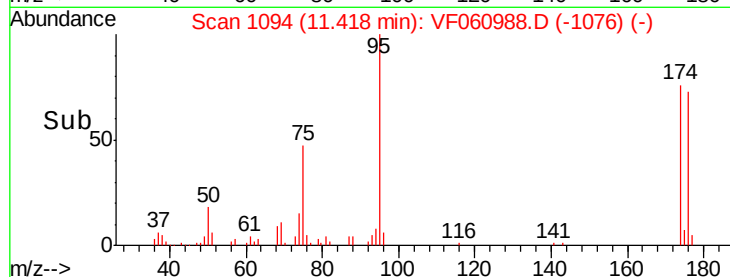
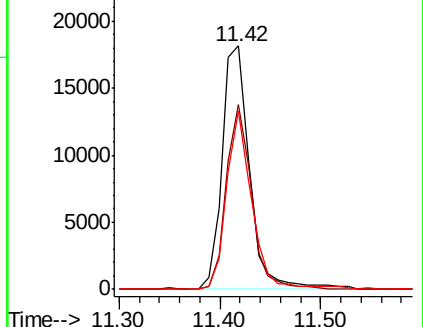
176 73.3 0.0 146.2



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

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

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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF060988.D

Acq: 11 Dec 2018 20:51

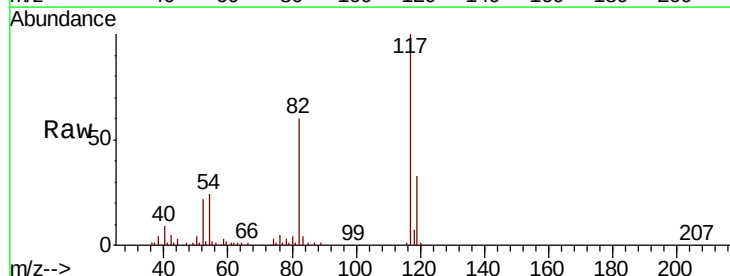
Tgt Ion: 117 Resp: 74382

Ion Ratio Lower Upper

117 100

82 59.7 46.6 69.8

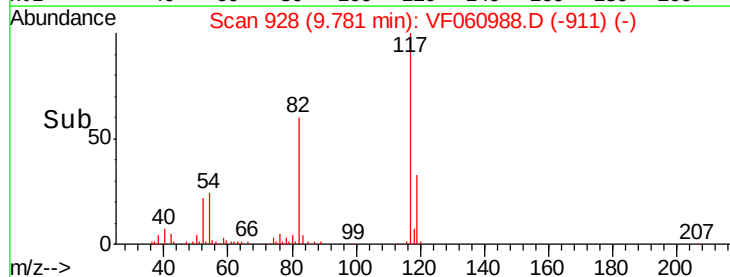
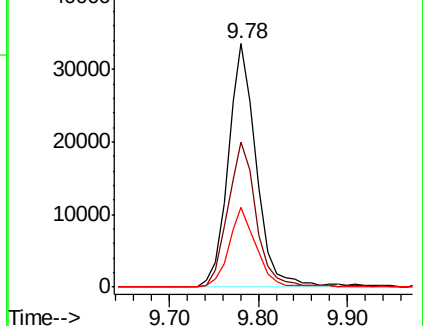
119 32.9 26.4 39.6

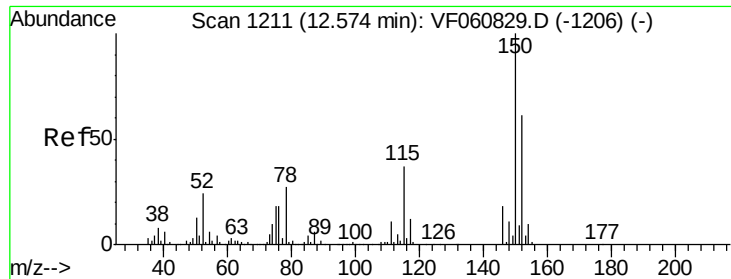


Abundance Ion 117.00 (116.70 to 117.70): VF060829.D (-924) (-)

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

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



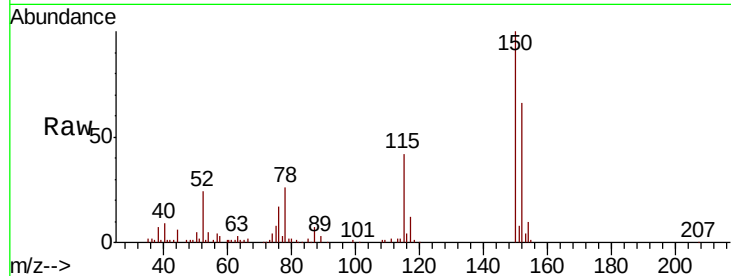


#72

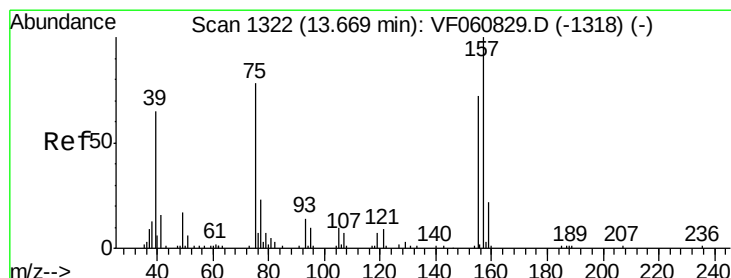
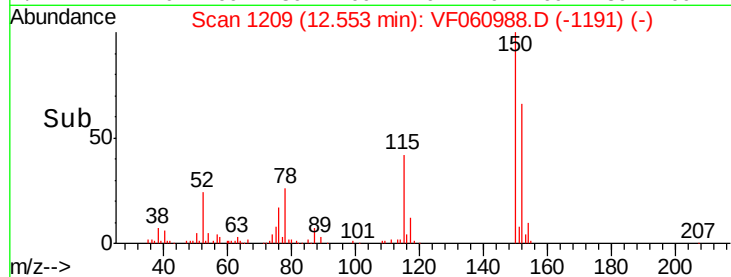
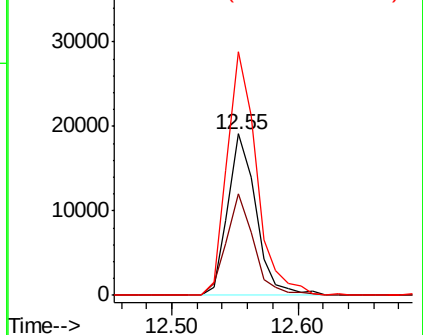
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060988.D
Acq: 11 Dec 2018 20:51

Instrument :
MSVOA_F
ClientSampleId :
SB-7-(12.5-14.5)RE

Tot Ion:152 Resp: 29695
Ion Ratio Lower Upper
152 100
115 62.8 30.1 90.5
150 150.8 0.0 327.6



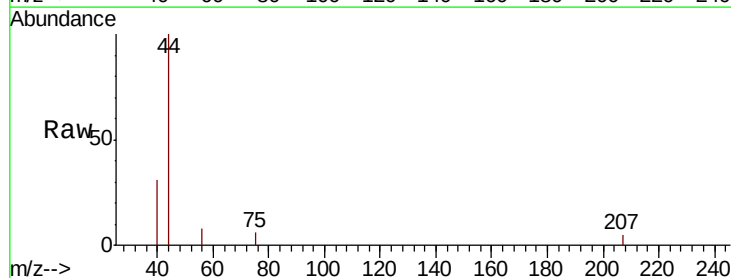
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



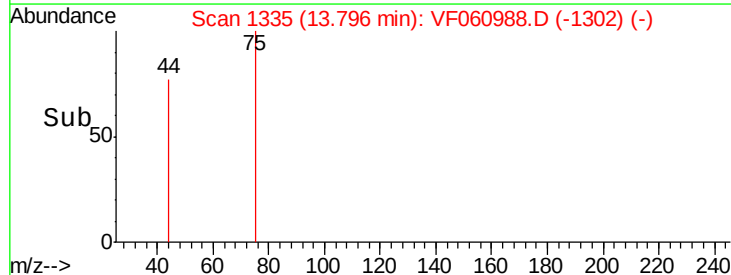
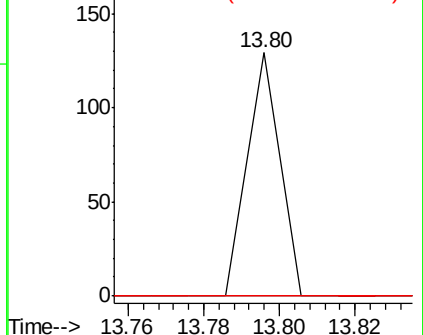
#92

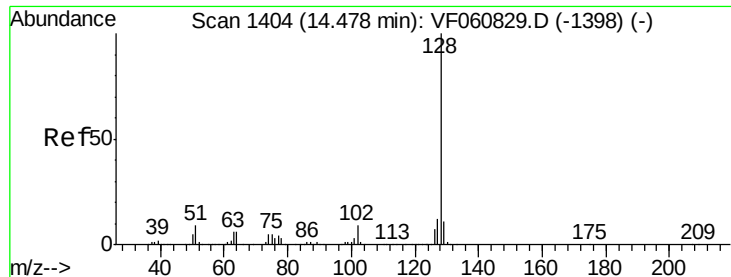
1,2-Dibromo-3-Chloropropane
Concen: 1.018 ug/l
RT: 13.80 min Scan# 1335
Delta R.T. 0.13 min
Lab File: VF060988.D
Acq: 11 Dec 2018 20:51

Tgt Ion: 75 Resp: 76
Ion Ratio Lower Upper
75 100
155 0.0 45.6 136.9#
157 0.0 63.8 191.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V

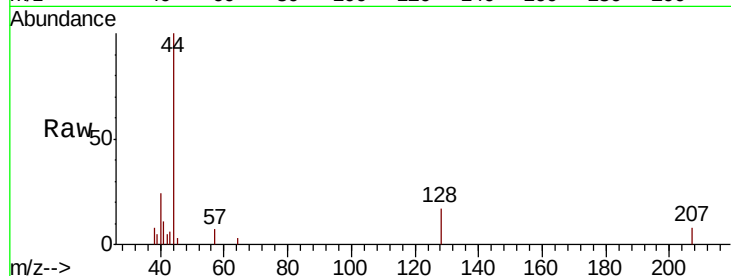




#95
 Naphthalene
 Concen: Below Cal
 RT: 14.46 min Scan# 1402
 Delta R.T. -0.02 min
 Lab File: VF060988.D
 Acq: 11 Dec 2018 20:51

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-7-(12.5-14.5)RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.9	14.9#
129	0.0	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

