

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111418\
 Data File : VF060724.D
 Acq On : 14 Nov 2018 15:06
 Operator : VA/AP
 Sample : J5860-23RE
 Misc : 5.87g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP2-SB-110(24-28)

Quant Time: Nov 15 06:37:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	229357	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	443933	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.76	117	404500	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	227064	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	129386	49.46	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	98.92%	
35) Dibromofluoromethane	4.09	113	148337	44.45	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	88.90%	
50) Toluene-d8	7.53	98	364899	42.03	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	84.06%	
62) 4-Bromofluorobenzene	11.40	95	185324	46.66	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	93.32%	

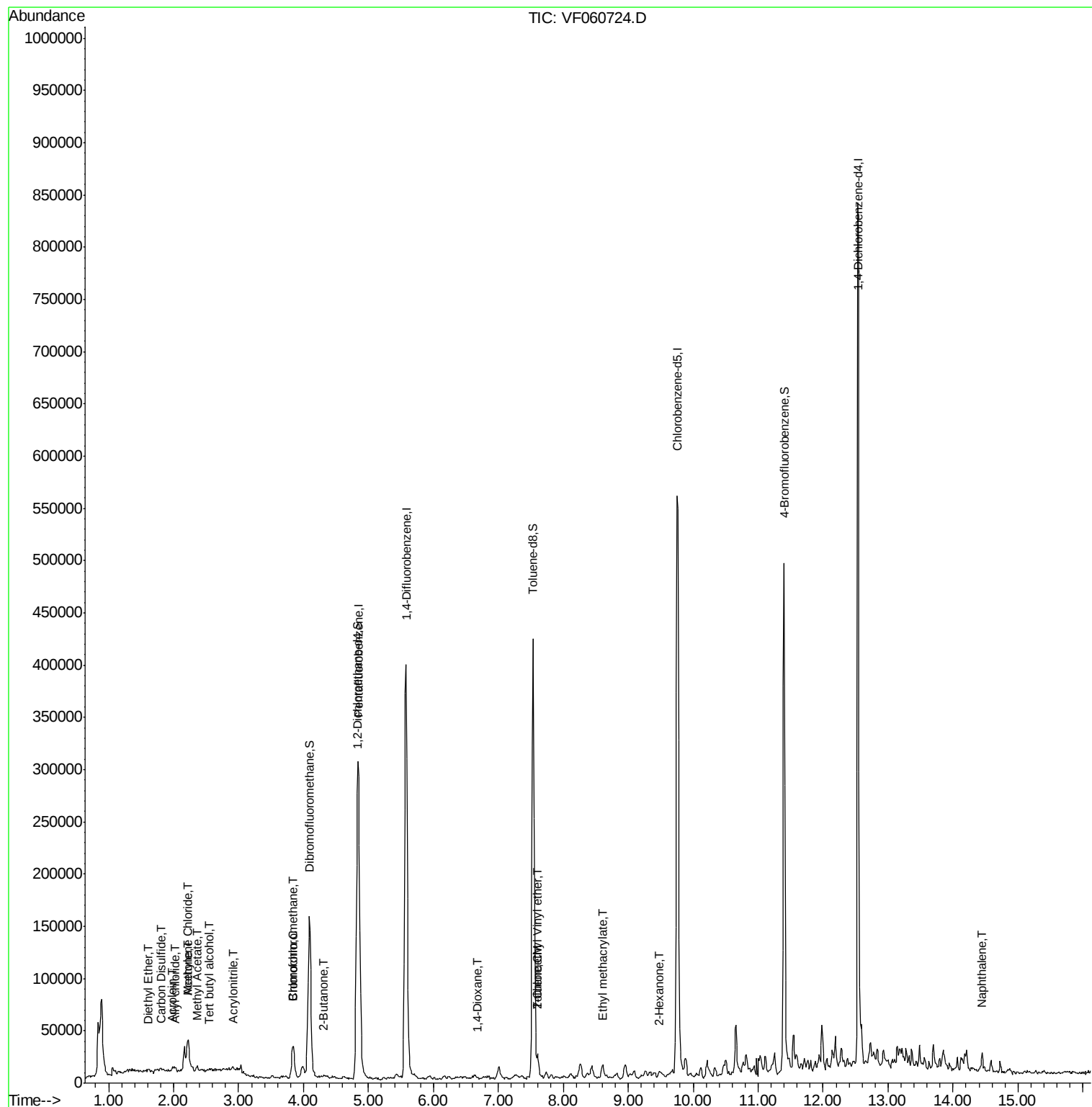
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.61	74	727	1.127	ug/l	76
11) Tert butyl alcohol	2.54	59	398	3.343	ug/l #	1
13) Acrolein	1.98	56	674	6.191	ug/l #	34
14) Allyl chloride	2.03	41	4776	1.457	ug/l #	44
15) Acrylonitrile	2.93	53	722	2.846	ug/l #	13
16) Acetone	2.23	43	19846	35.492	ug/l #	82
17) Carbon Disulfide	1.81	76	6798	1.202	ug/l	95
18) Methyl Acetate	2.36	43	1807	1.968	ug/l #	64
20) Methylene Chloride	2.22	84	9743	2.526	ug/l	94
25) 2-Butanone	4.32	43	3946	4.290	ug/l #	83
28) Bromochloromethane	3.83	49	2781	1.397	ug/l #	12
30) Chloroform	3.83	83	32892	5.350	ug/l	97
41) Methacrylonitrile	4.71	41	293	Below Cal	#	56
49) 1,4-Dioxane	6.67	88	79	5.029	ug/l #	1
52) Toluene	7.61	92	8598	1.118	ug/l	99
56) Ethyl methacrylate	8.60	69	6702	2.685	ug/l #	83
58) 2-Chloroethyl Vinyl ether	7.61	63	1283	5.628	ug/l	100
59) 2-Hexanone	9.48	43	4926	3.819	ug/l	87
95) Naphthalene	14.45	128	9868	1.055	ug/l	97

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF060724.D

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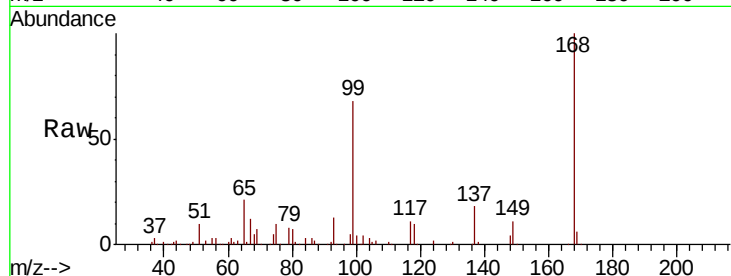
Instrument :
MSVOA_F
ClientSampleId :
EP2-SB-110(24-28)

Tgt Ion: 168 Resp: 229357

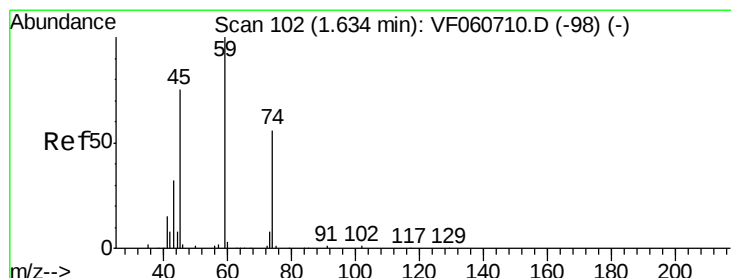
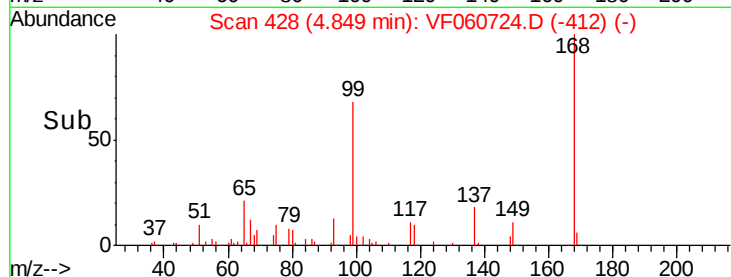
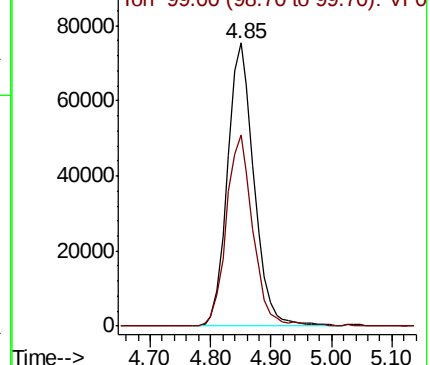
Ion Ratio Lower Upper

168 100

99 67.7 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#8

Diethyl Ether

Concen: 1.127 ug/l

RT: 1.61 min Scan# 100

Delta R.T. -0.02 min

Lab File: VF060724.D

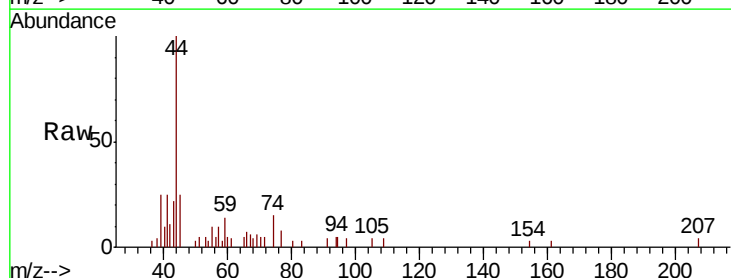
Acq: 14 Nov 2018 15:06

Tgt Ion: 74 Resp: 727

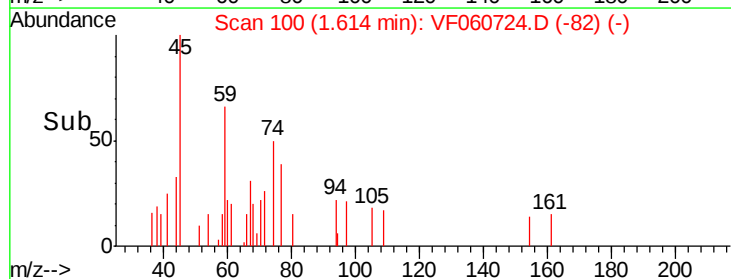
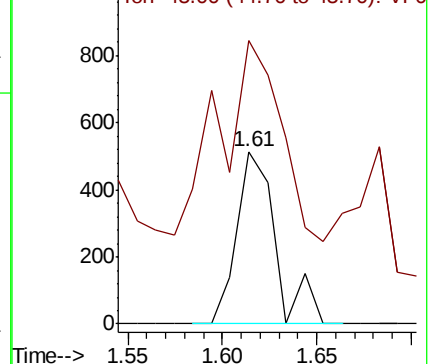
Ion Ratio Lower Upper

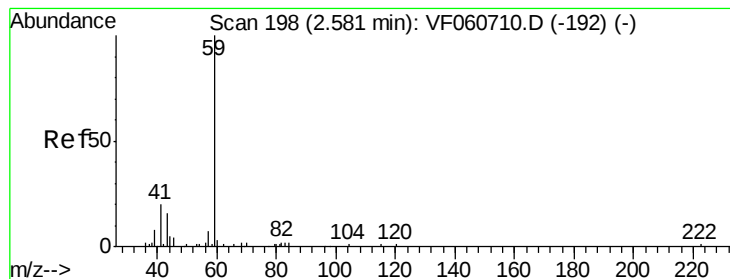
74 100

45 164.2 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0



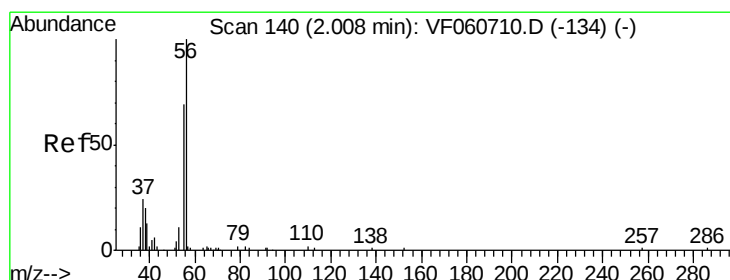
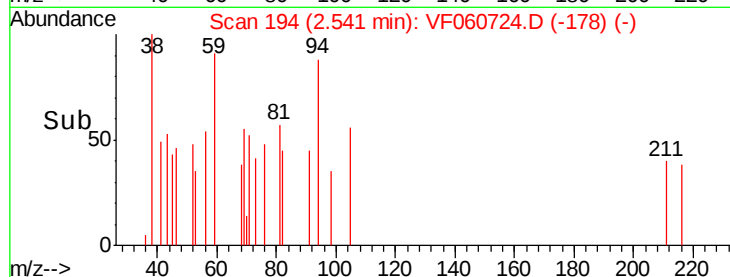
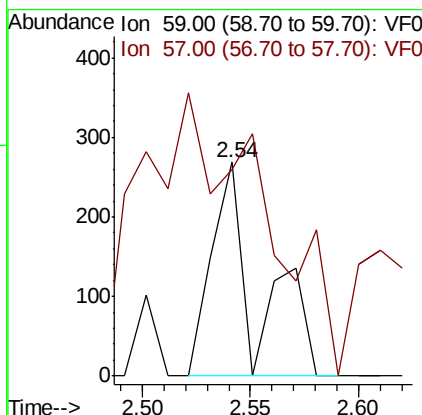
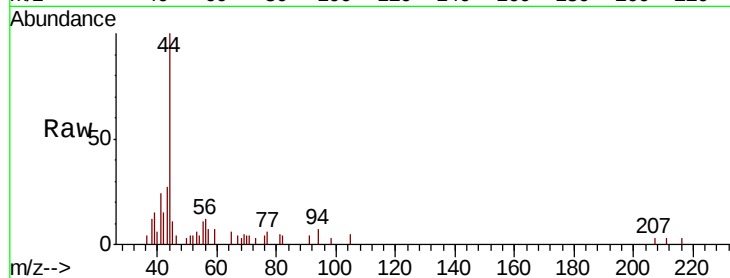


#11

Tert butyl alcohol
Concen: 3.343 ug/l
RT: 2.54 min Scan# 194
Delta R.T. -0.04 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

Instrument :
MSVOA_F
ClientSampleId :
EP2-SB-110(24-28)

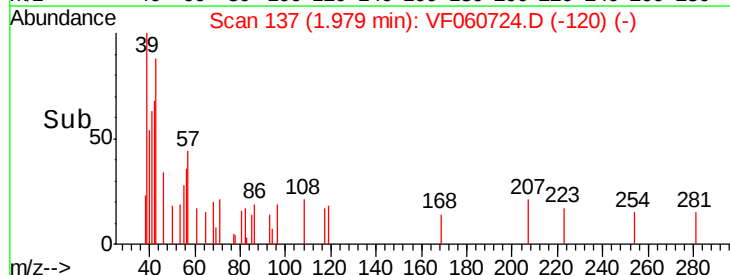
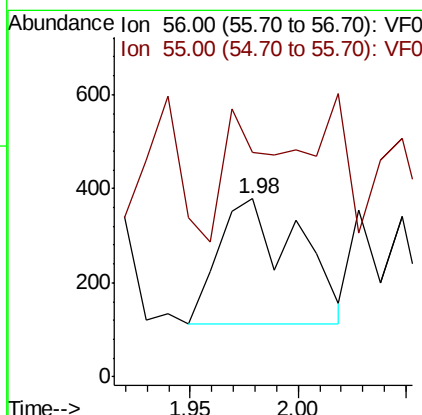
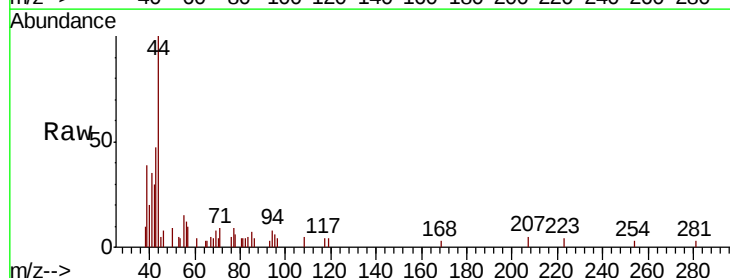
Tgt Ion: 59 Resp: 398
Ion Ratio Lower Upper
59 100
57 96.7 10.5 15.7#

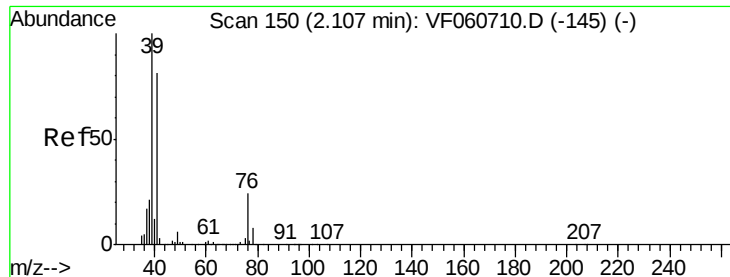


#13

Acrolein
Concen: 6.191 ug/l
RT: 1.98 min Scan# 137
Delta R.T. -0.03 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

Tgt Ion: 56 Resp: 674
Ion Ratio Lower Upper
56 100
55 125.6 56.6 85.0#





#14

Allyl chloride

Concen: 1.457 ug/l

RT: 2.03 min Scan# 142

Delta R.T. -0.08 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

Instrument :

MSVOA_F

ClientSampleId :

EP2-SB-110(24-28)

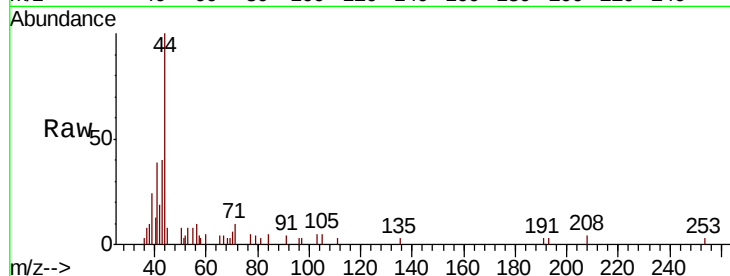
Tgt Ion: 41 Resp: 4776

Ion Ratio Lower Upper

41 100

39 60.6 98.5 147.7#

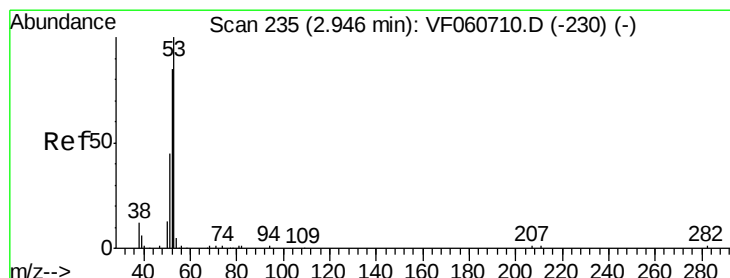
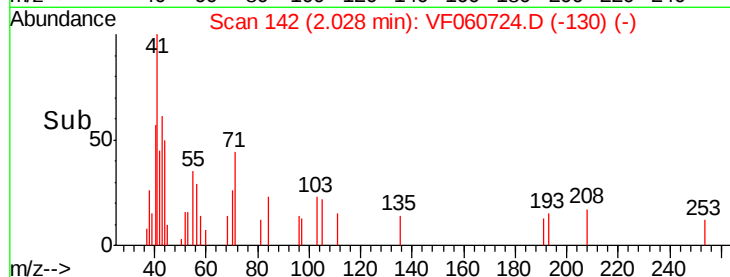
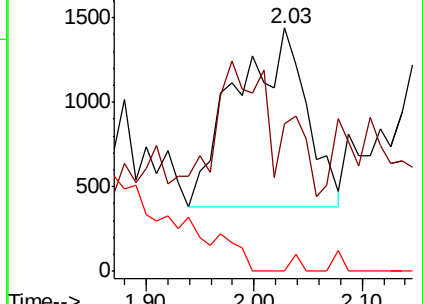
76 0.0 24.5 36.7#



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: 2.846 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

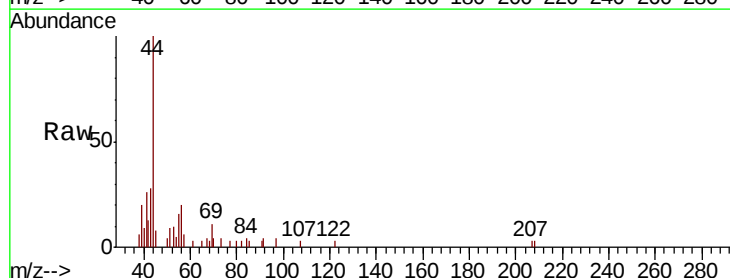
Tgt Ion: 53 Resp: 722

Ion Ratio Lower Upper

53 100

52 0.0 68.8 103.2#

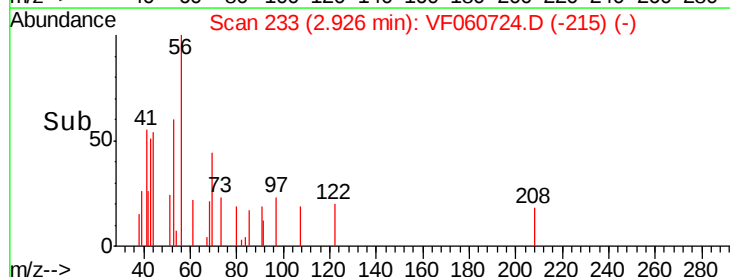
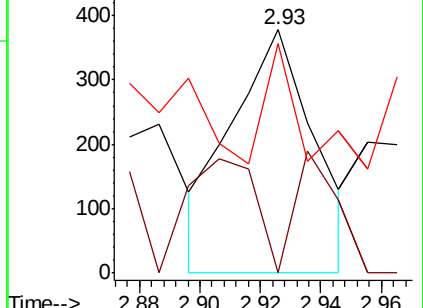
51 94.4 36.7 55.1#

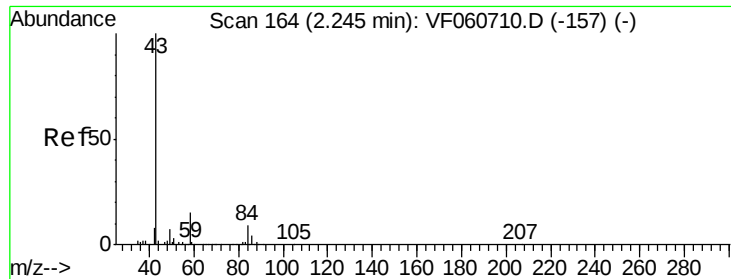


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

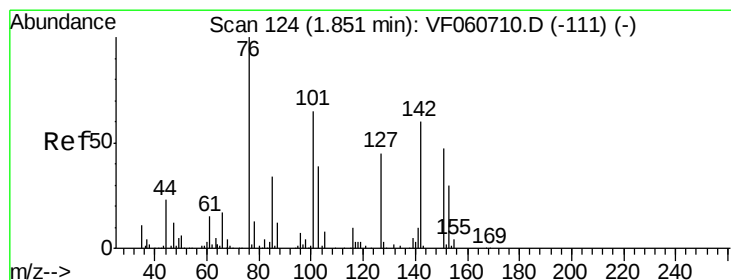
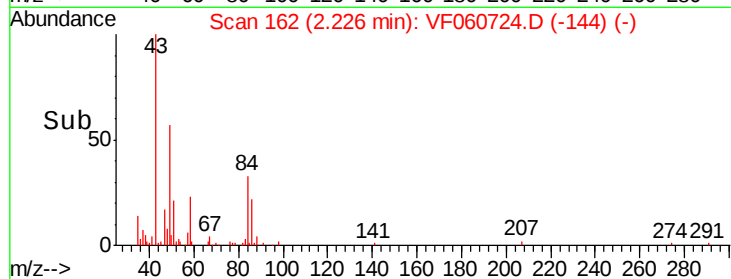
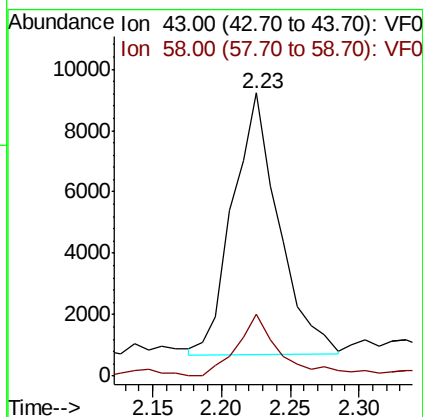
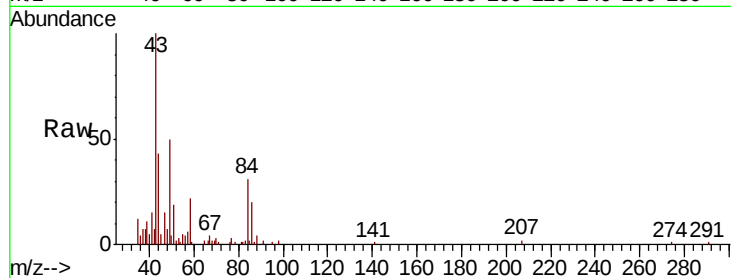




#16
Acetone
Concen: 35.492 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.02 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

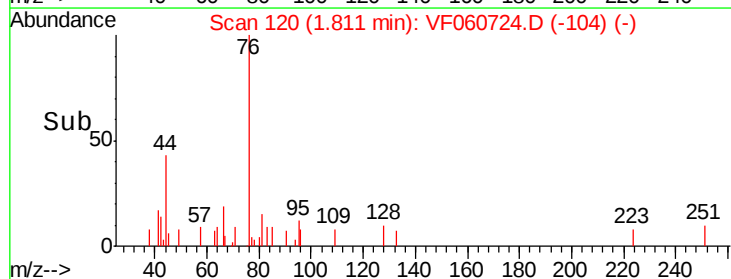
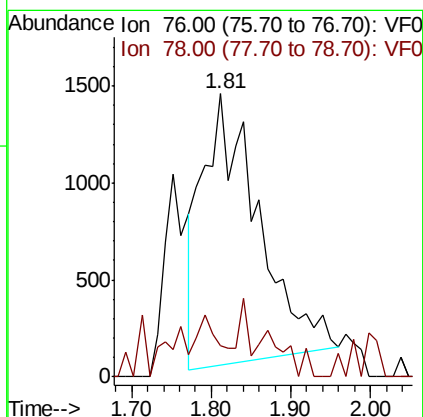
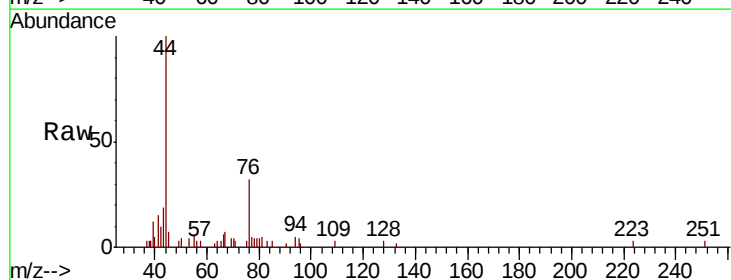
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EP2-SB-110(24-28)

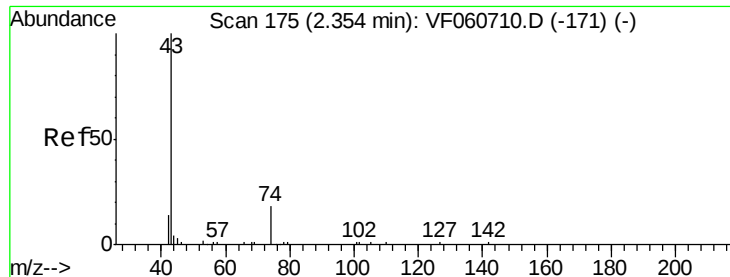
Tgt Ion: 43 Resp: 19846
Ion Ratio Lower Upper
43 100
58 21.8 11.6 17.4#



#17
Carbon Disulfide
Concen: 1.202 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.04 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

Tgt Ion: 76 Resp: 6798
Ion Ratio Lower Upper
76 100
78 11.2 10.5 15.7

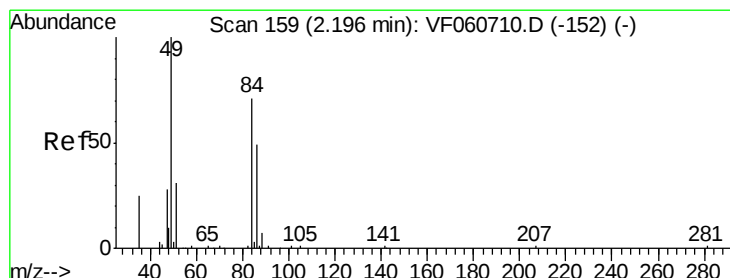
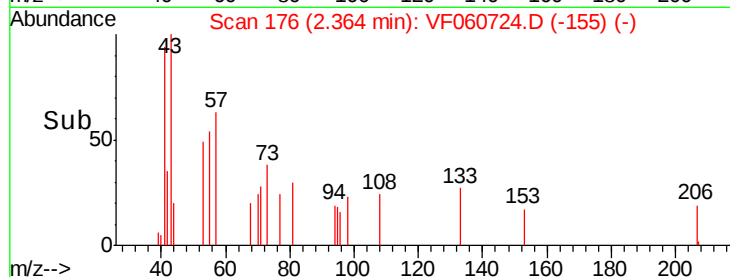
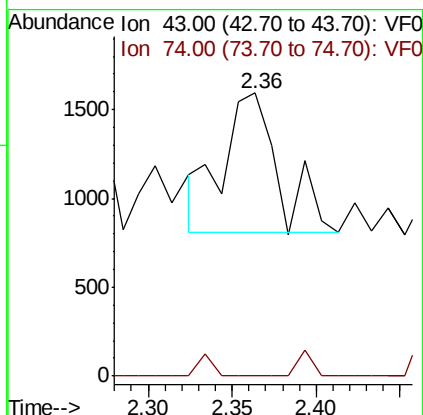
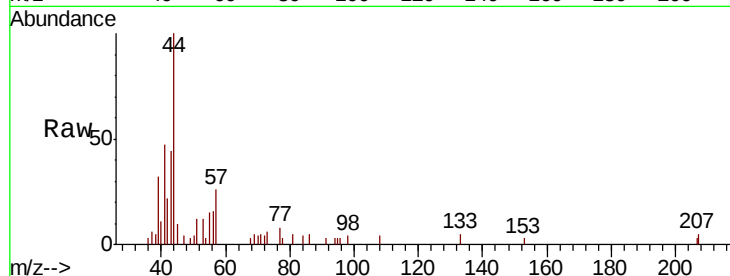




#18
Methyl Acetate
Concen: 1.968 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

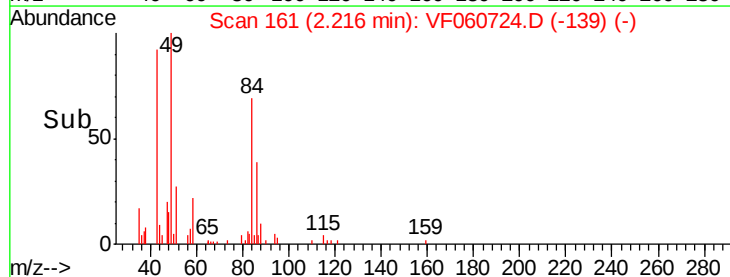
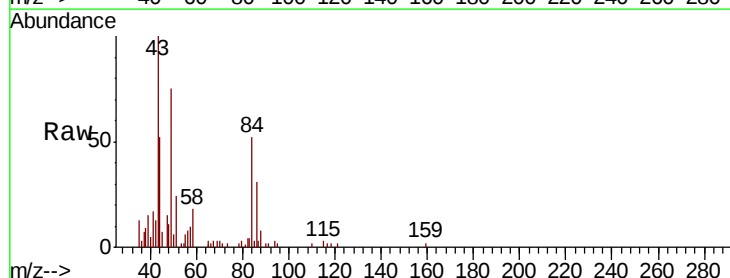
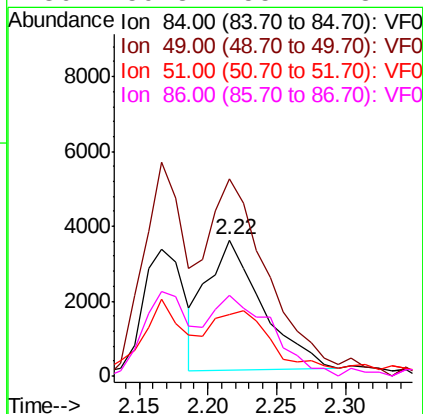
Instrument :
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ClientSampleId :
EP2-SB-110(24-28)

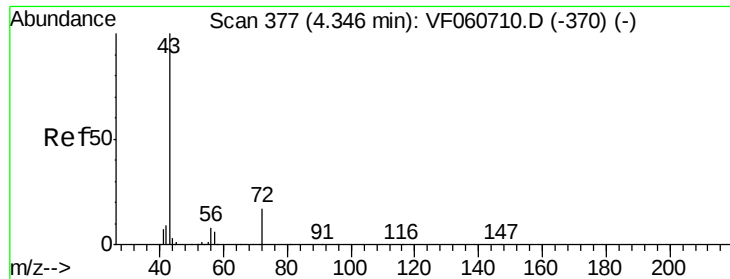
Tgt Ion: 43 Resp: 1807
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#20
Methylene Chloride
Concen: 2.526 ug/l
RT: 2.22 min Scan# 161
Delta R.T. 0.02 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

Tgt Ion: 84 Resp: 9743
Ion Ratio Lower Upper
84 100
49 145.1 120.2 180.4
51 45.6 37.2 55.8
86 59.3 55.1 82.7





#25

2-Butanone

Concen: 4.290 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

Instrument :

MSVOA_F

ClientSampleId :

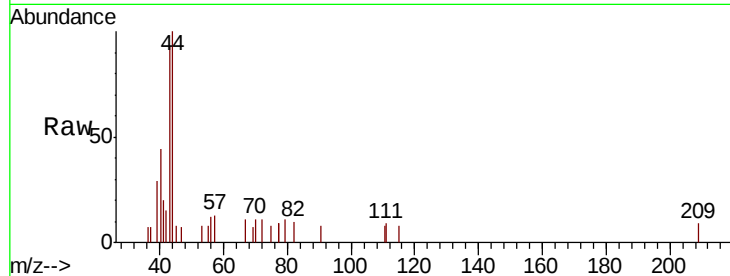
EP2-SB-110(24-28)

Tgt Ion: 43 Resp: 3946

Ion Ratio Lower Upper

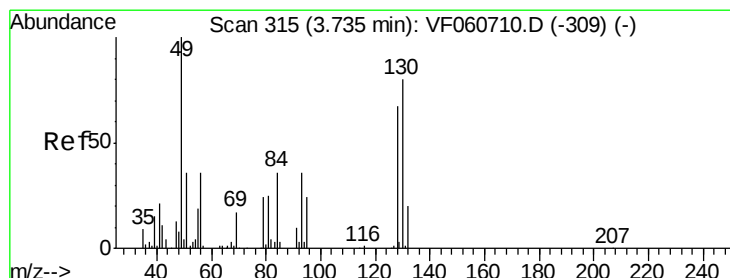
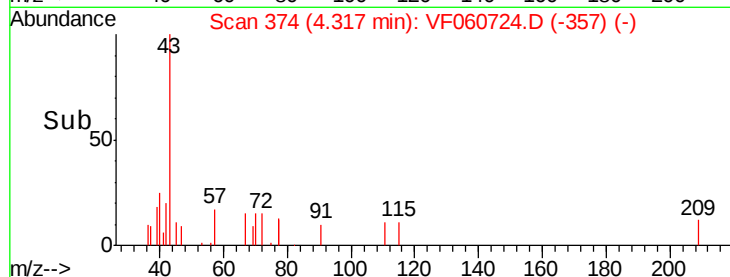
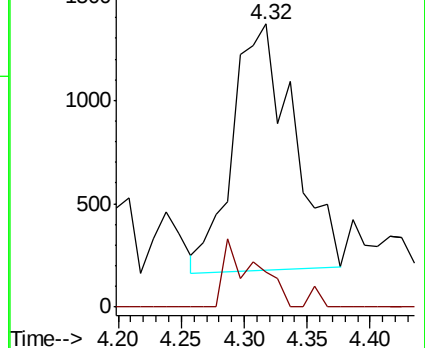
43 100

72 12.2 16.1 24.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#28

Bromochloromethane

Concen: 1.397 ug/l

RT: 3.83 min Scan# 325

Delta R.T. 0.10 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

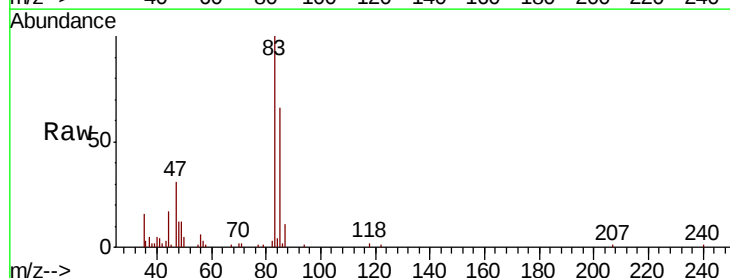
Tgt Ion: 49 Resp: 2781

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.2

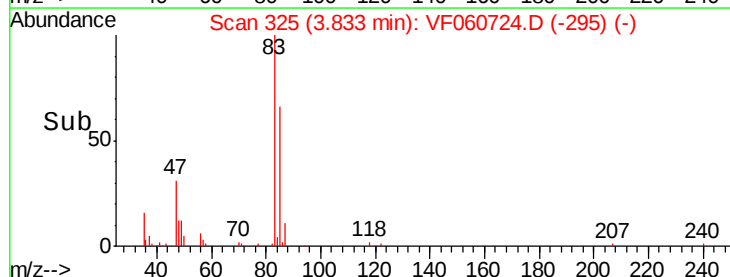
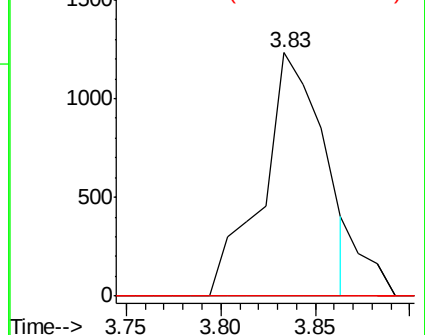
130 0.0 63.9 95.9#

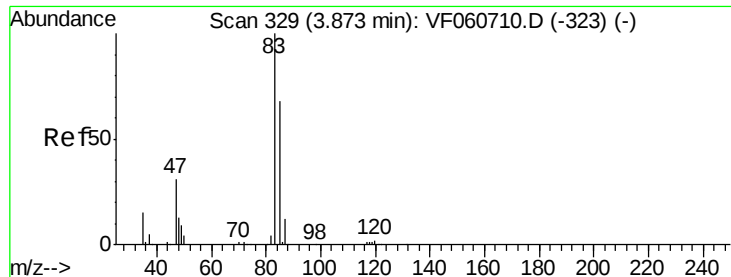


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

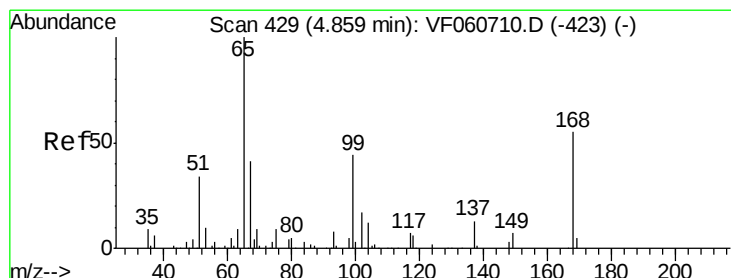
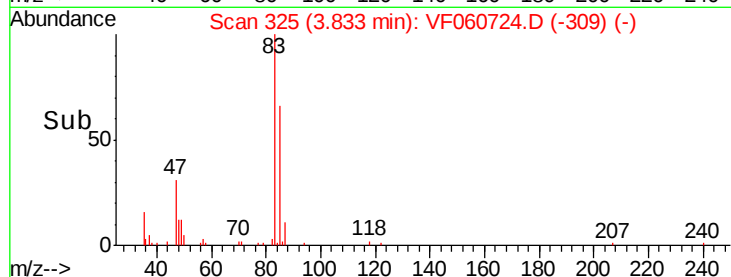
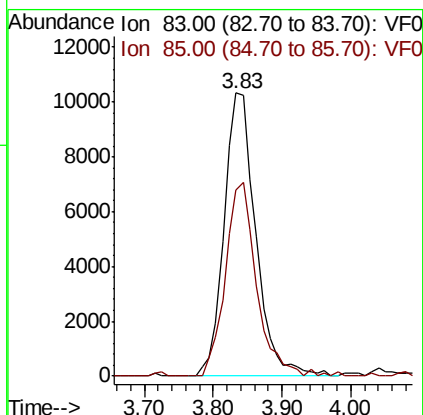
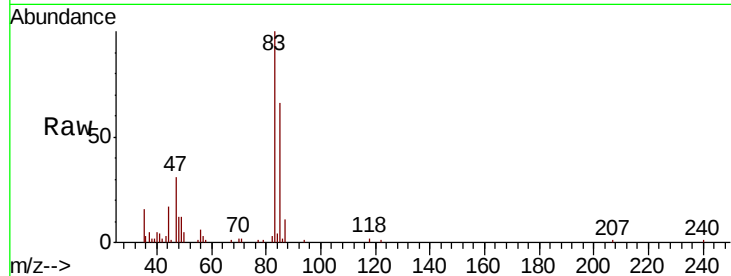




#30
Chloroform
Concen: 5.350 ug/l
RT: 3.83 min Scan# 325
Delta R.T. -0.04 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

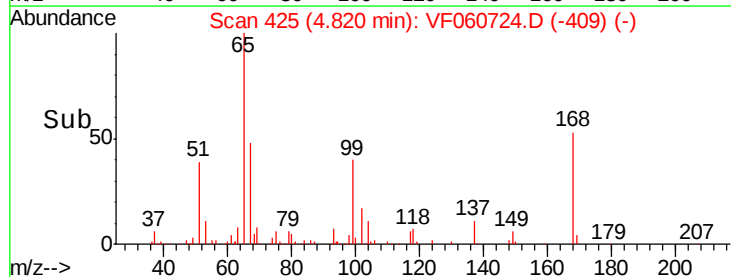
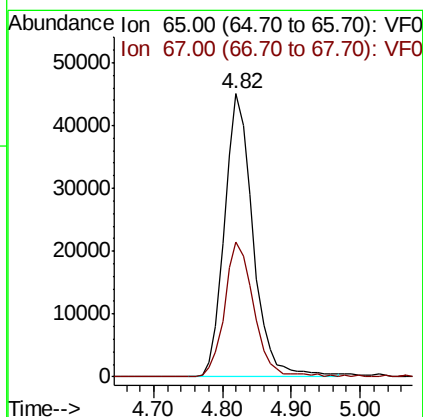
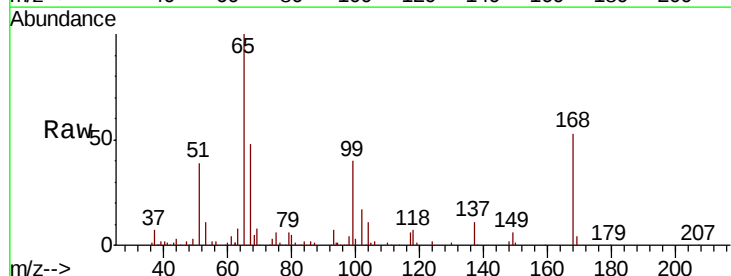
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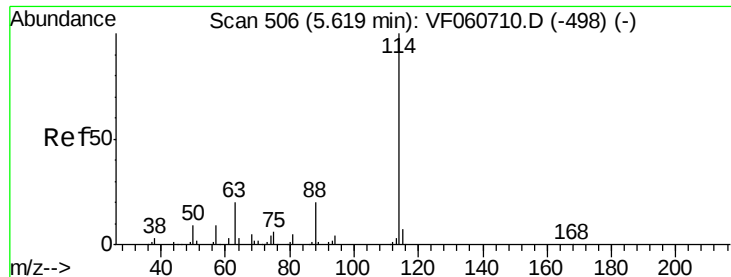
Tgt Ion: 83 Resp: 32892
Ion Ratio Lower Upper
83 100
85 66.0 54.6 82.0



#33
1,2-Dichloroethane-d4
Concen: 49.458 ug/l
RT: 4.82 min Scan# 425
Delta R.T. -0.04 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

Tgt Ion: 65 Resp: 129386
Ion Ratio Lower Upper
65 100
67 47.6 0.0 90.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.04 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

Instrument :

MSVOA_F

ClientSampleId :

EP2-SB-110(24-28)

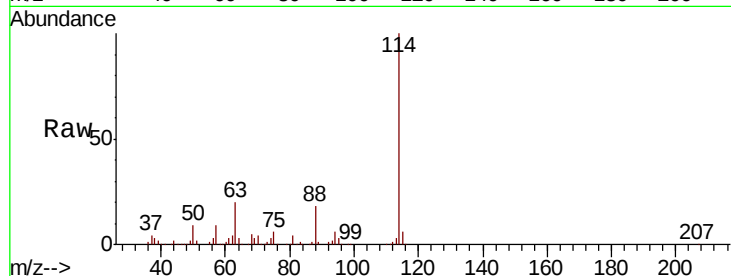
Tgt Ion:114 Resp: 443933

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

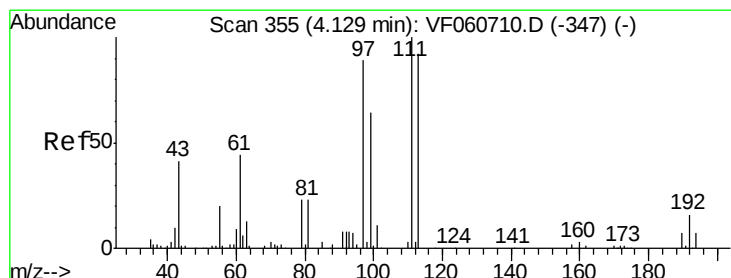
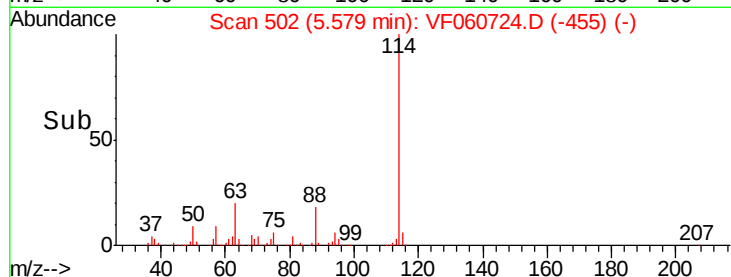
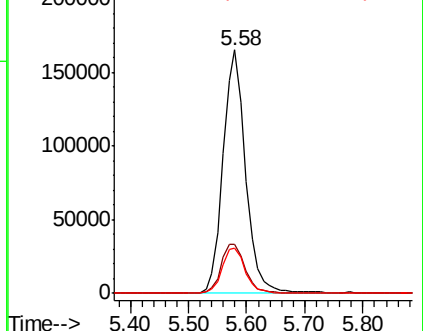
88 18.4 0.0 39.6



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: 44.452 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

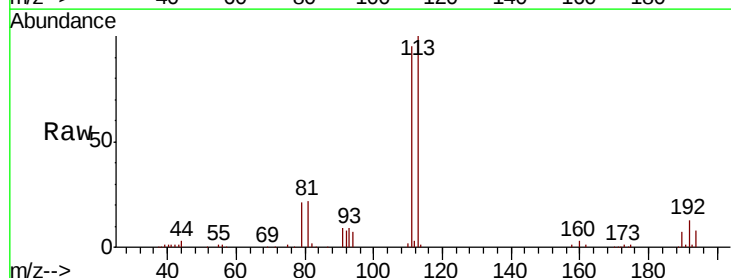
Tgt Ion:113 Resp: 148337

Ion Ratio Lower Upper

113 100

111 94.9 87.1 130.7

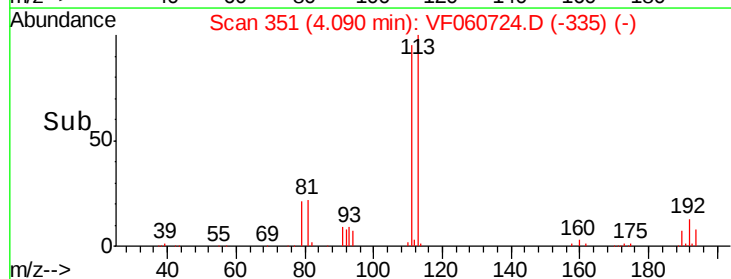
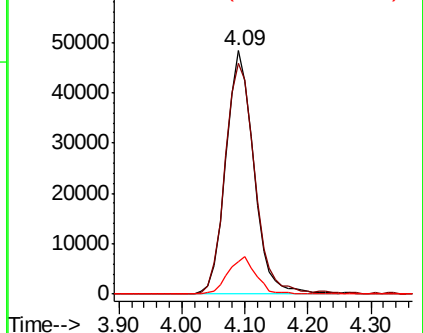
192 13.4 13.8 20.6#

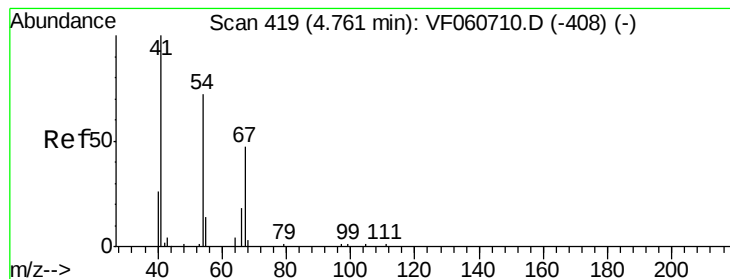


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.71 min Scan# 414

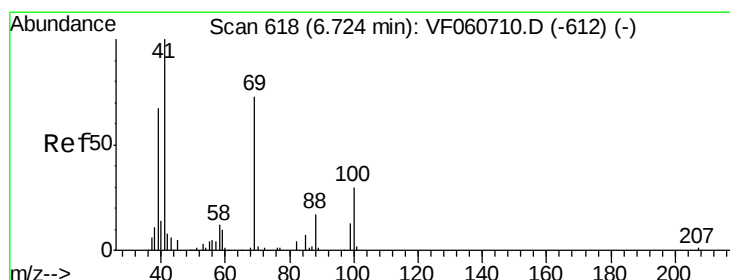
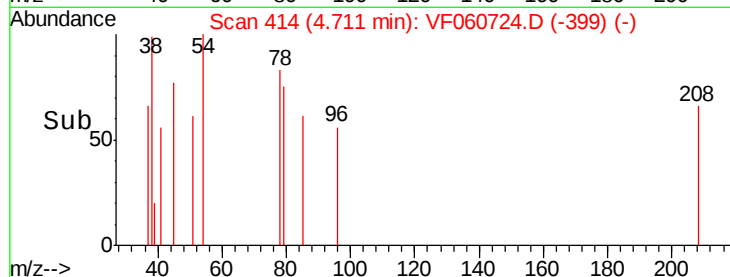
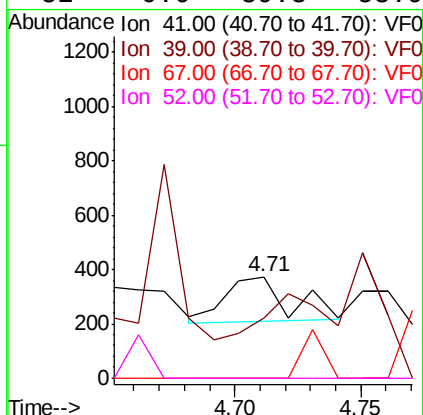
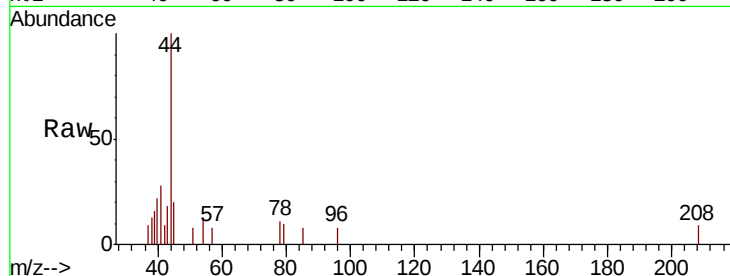
Delta R.T. -0.05 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

Instrument :
MSVOA_F
ClientSampleId :
EP2-SB-110(24-28)

Tgt Ion:	41	Resp:	293
Ion	Ratio	Lower	Upper
41	100		
39	58.9	47.1	70.7
67	0.0	37.1	55.7#
52	0.0	39.3	58.9#



#49

1,4-Dioxane

Concen: 5.029 ug/l

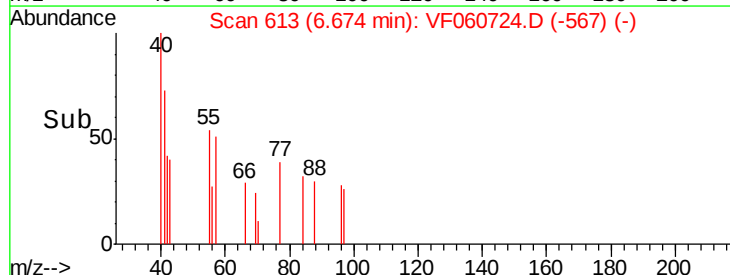
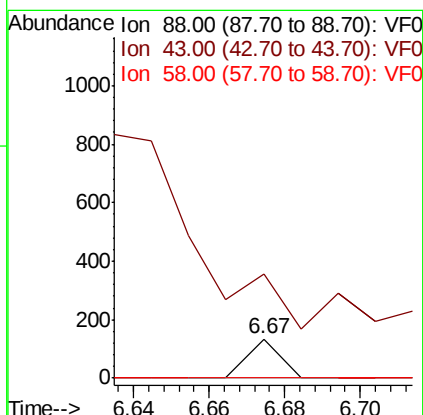
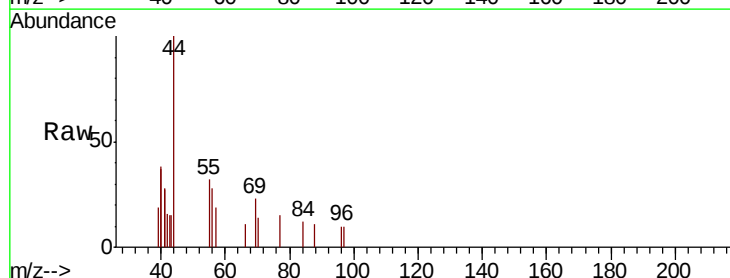
RT: 6.67 min Scan# 613

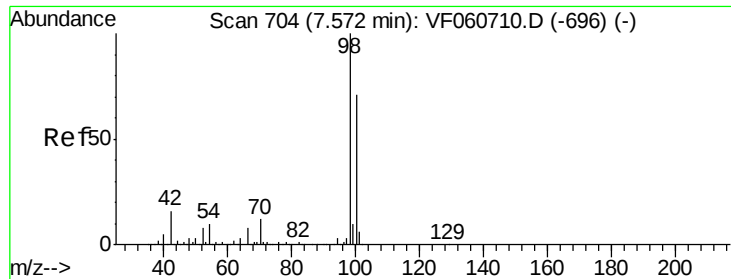
Delta R.T. -0.05 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

Tgt Ion:	88	Resp:	79
Ion	Ratio	Lower	Upper
88	100		
43	268.4	44.6	66.8#
58	0.0	54.5	81.7#

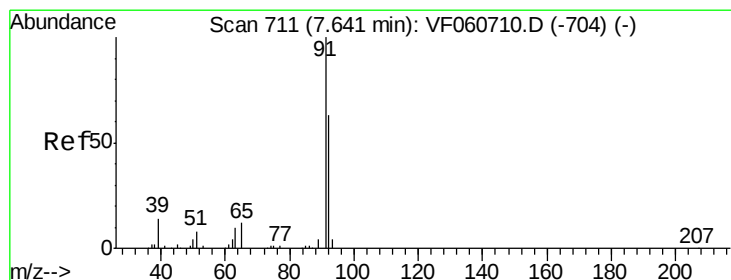
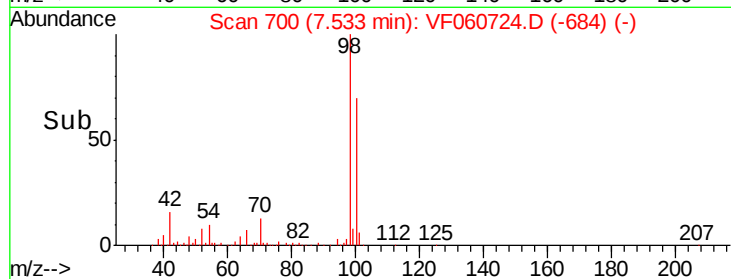
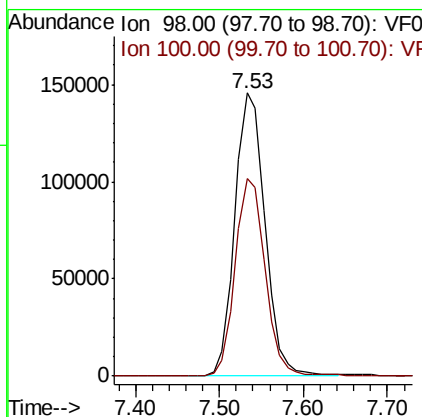
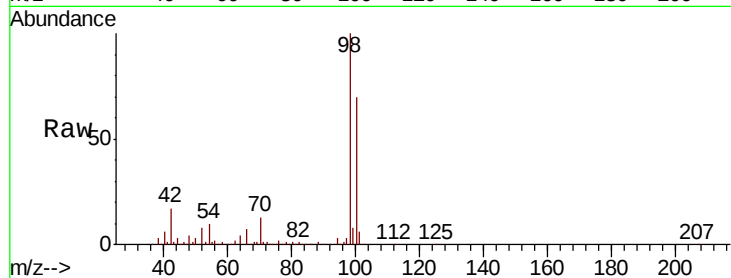




#50
Toluene-d8
Concen: 42.026 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.04 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

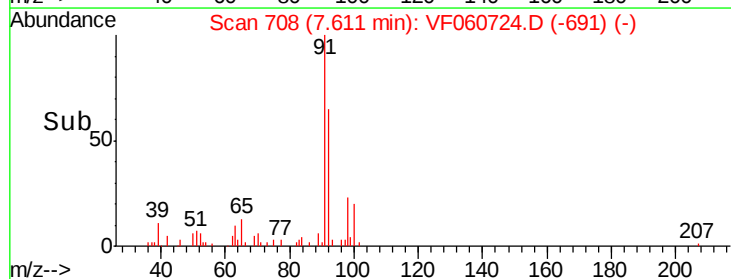
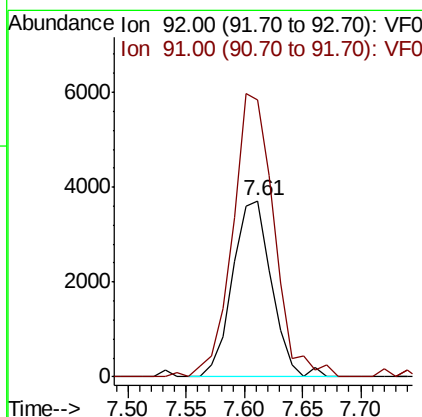
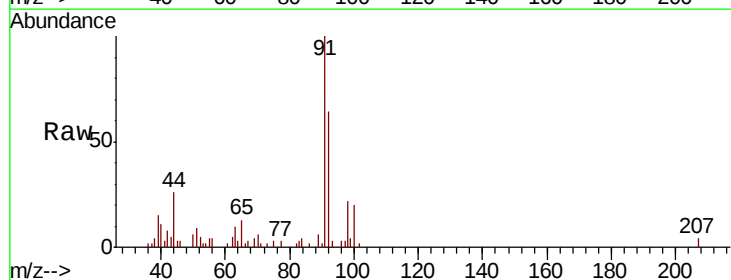
Instrument :
MSVOA_F
ClientSampleId :
EP2-SB-110(24-28)

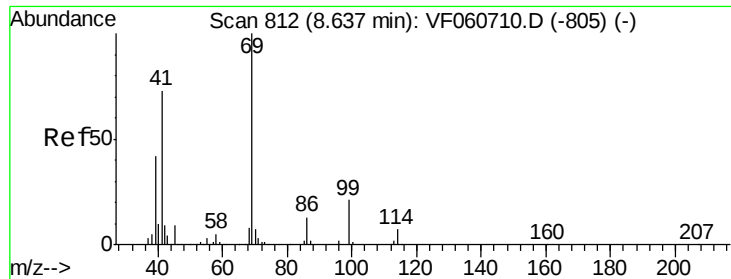
Tgt Ion: 98 Resp: 364899
Ion Ratio Lower Upper
98 100
100 70.0 56.5 84.7



#52
Toluene
Concen: 1.118 ug/l
RT: 7.61 min Scan# 708
Delta R.T. -0.03 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

Tgt Ion: 92 Resp: 8598
Ion Ratio Lower Upper
92 100
91 157.2 126.7 190.1





#56

Ethyl methacrylate

Concen: 2.685 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.04 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

Instrument :

MSVOA_F

ClientSampleId :

EP2-SB-110(24-28)

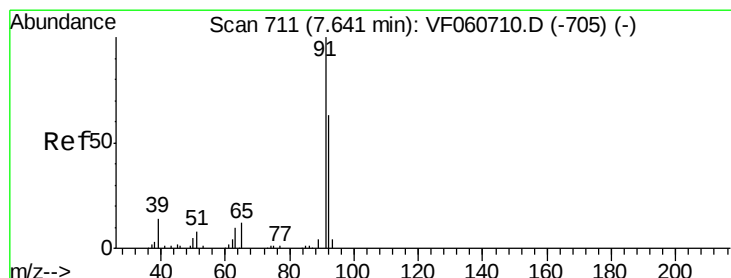
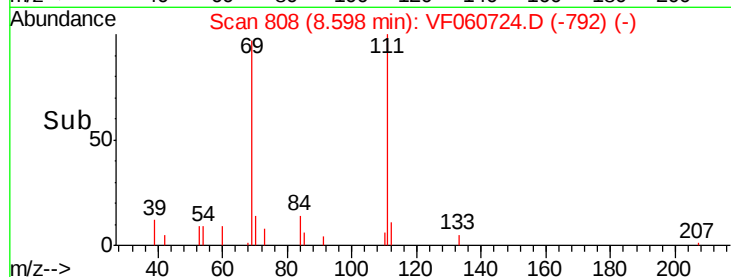
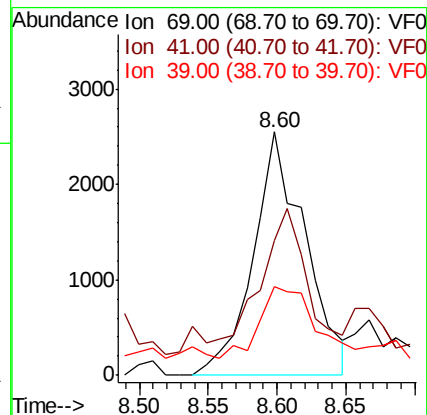
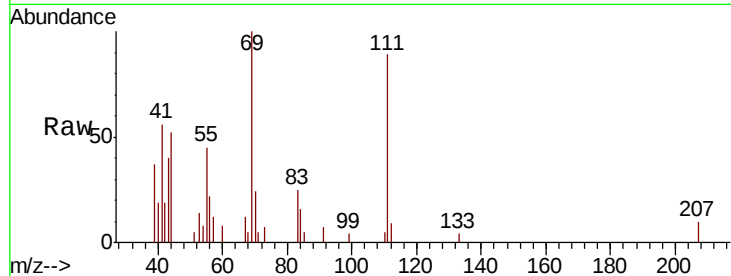
Tgt Ion: 69 Resp: 6702

Ion Ratio Lower Upper

69 100

41 55.6 59.0 88.6#

39 36.6 34.0 51.0



#58

2-Chloroethyl Vinyl ether

Concen: 5.628 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.03 min

Lab File: VF060724.D

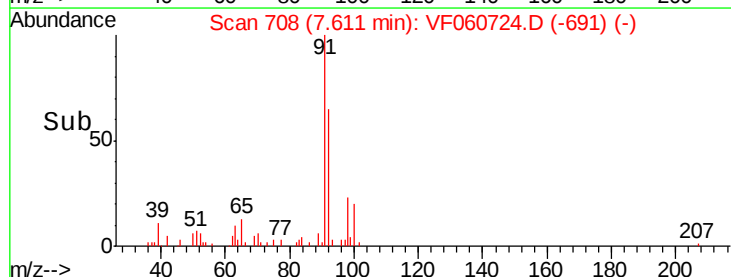
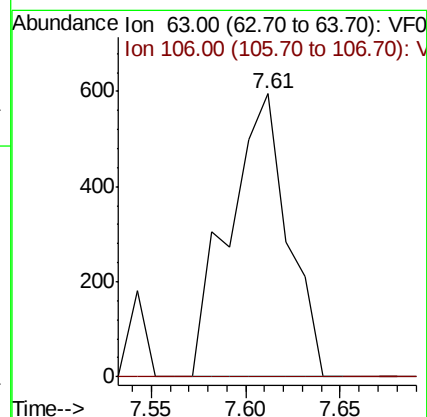
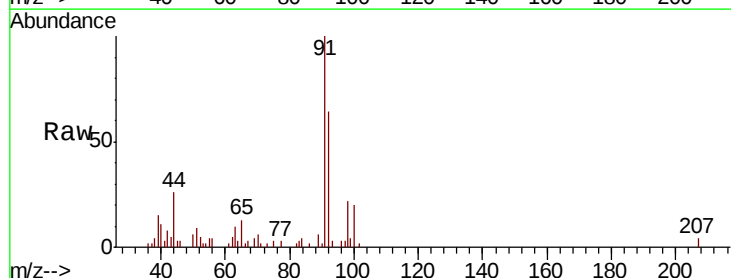
Acq: 14 Nov 2018 15:06

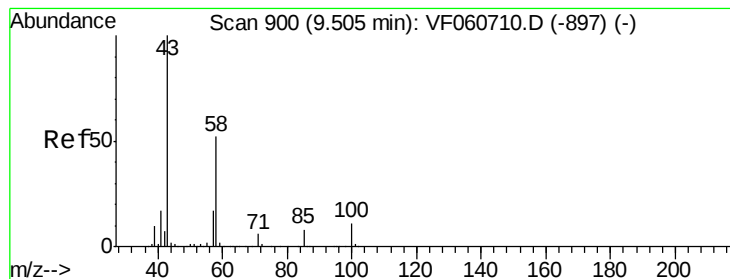
Tgt Ion: 63 Resp: 1283

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#59

2-Hexanone

Concen: 3.819 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

Instrument :

MSVOA_F

ClientSampleId :

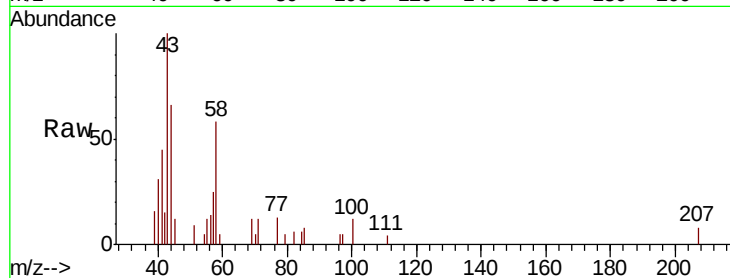
EP2-SB-110(24-28)

Tgt Ion: 43 Resp: 4926

Ion Ratio Lower Upper

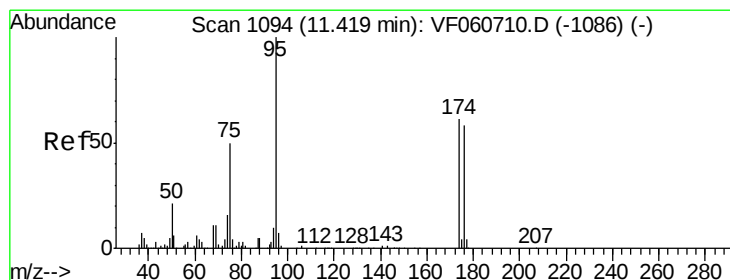
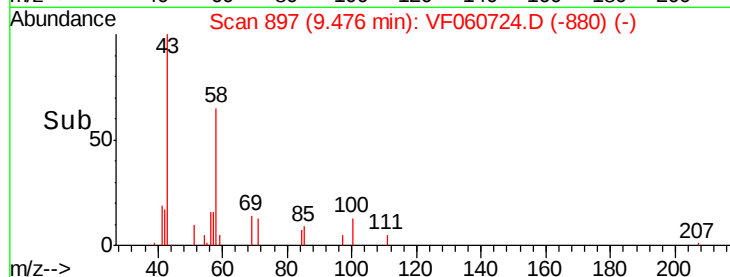
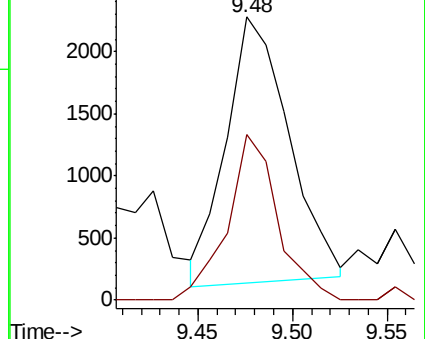
43 100

58 58.5 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 46.660 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF060724.D

Acq: 14 Nov 2018 15:06

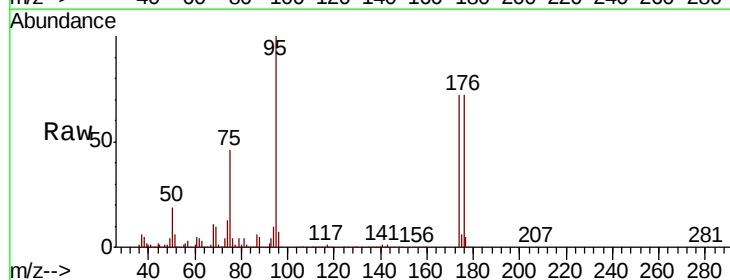
Tgt Ion: 95 Resp: 185324

Ion Ratio Lower Upper

95 100

174 71.6 0.0 121.6

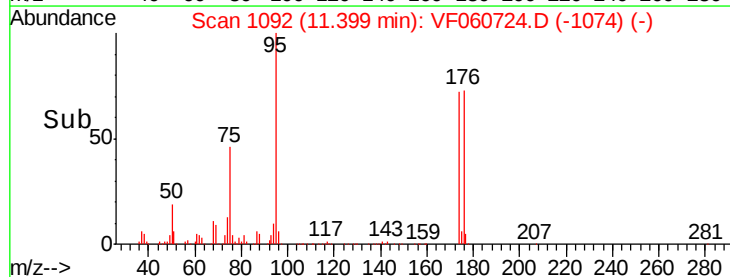
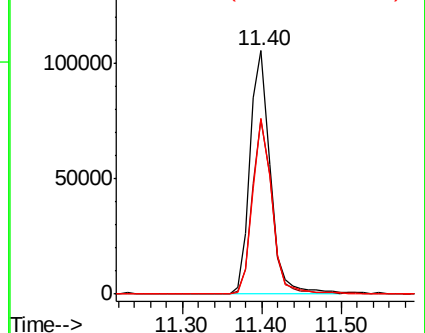
176 72.5 0.0 115.2

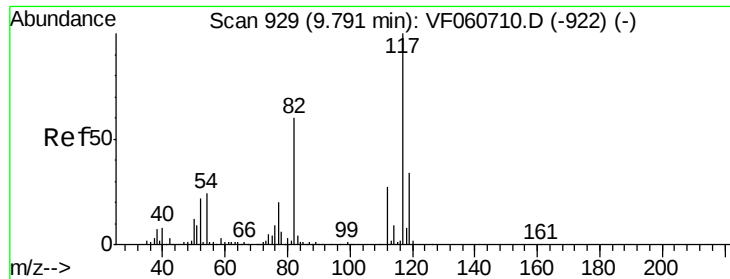


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

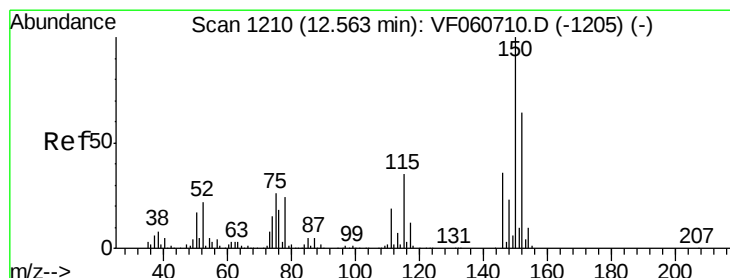
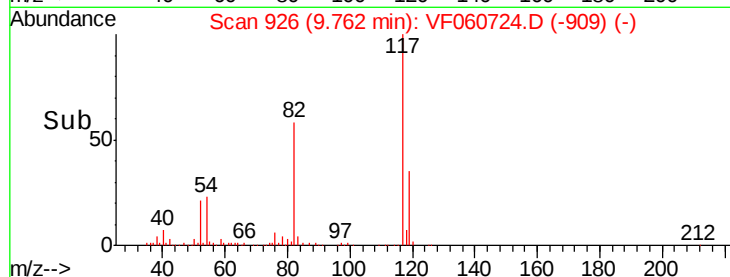
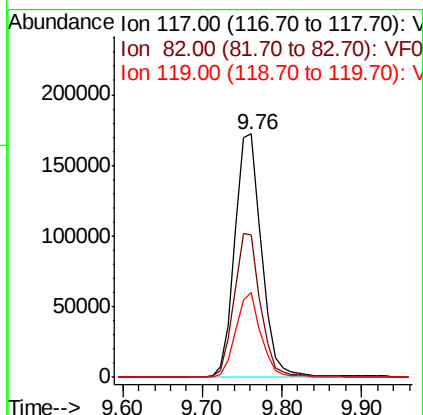
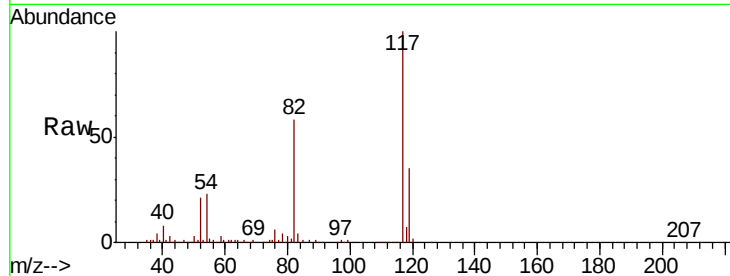




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

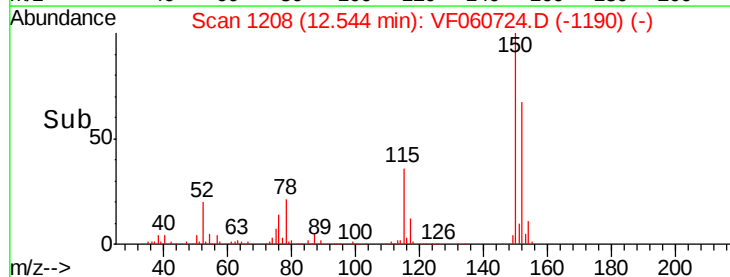
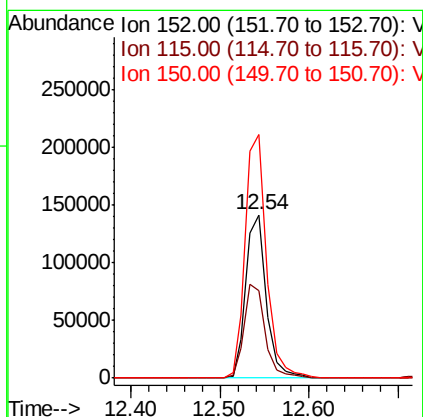
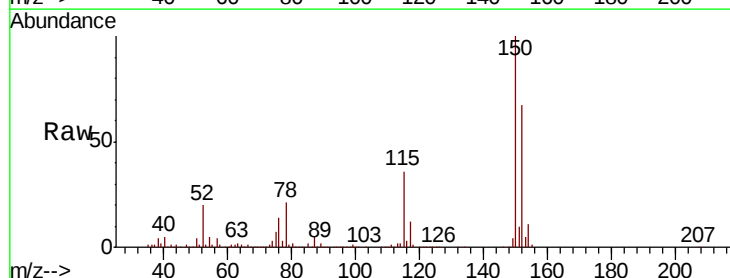
Instrument :
MSVOA_F
ClientSampleId :
EP2-SB-110(24-28)

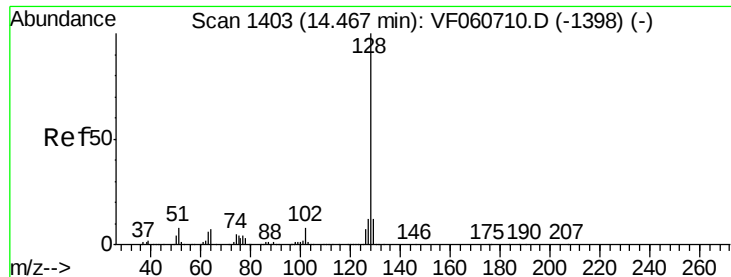
Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.9	71.9
119	34.9	26.8	40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF060724.D
Acq: 14 Nov 2018 15:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.9	27.9	83.7
150	149.1	0.0	316.4





#95

Naphthalene

Concen: 1.055 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF060724.D

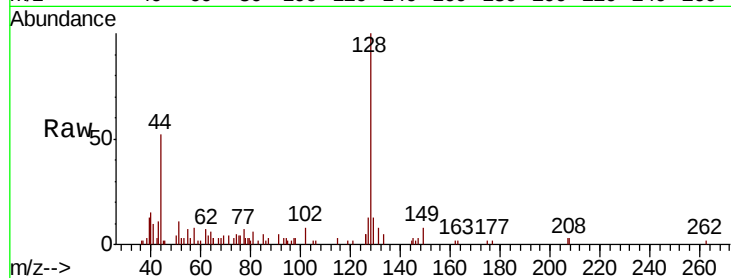
Acq: 14 Nov 2018 15:06

Instrument :

MSVOA_F

ClientSampleId :

EP2-SB-110(24-28)



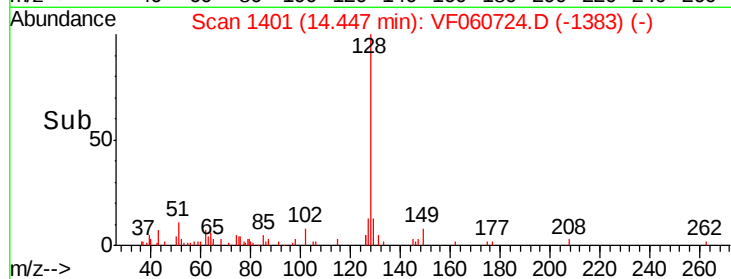
Tgt Ion:128 Resp: 9868

Ion Ratio Lower Upper

128 100

127 13.0 9.8 14.6

129 13.3 9.3 13.9



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

