

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060987.D
 Acq On : 11 Dec 2018 20:22
 Operator : VA/AP
 Sample : J6214-49RE
 Misc : 4.71g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-7-(0-2)RE

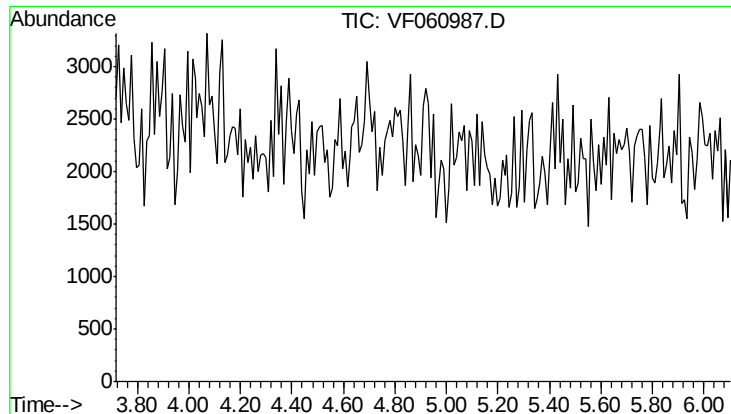
Quant Time: Dec 12 06:29:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.91
34) 1,4-Difluorobenzene	5.61	114	157	50.00	ug/l	-0.03
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.81
72) 1,4-Dichlorobenzene-d4	12.57	152	68	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.27	75	76	43.643	ug/l #	44
37) Ethyl Acetate	4.13	43	700	989.180	ug/l #	14
39) Methylcyclohexane	5.53	83	63	34.522	ug/l #	13
40) Benzene	4.77	78	79	20.535	ug/l #	52
41) Methacrylonitrile	4.77	41	375	1105.382	ug/l #	53
42) 1,2-Dichloroethane	4.80	62	60	42.720	ug/l	76
43) Isopropyl Acetate	6.96	43	231	276.913	ug/l #	49
45) 1,2-Dichloropropane	6.29	63	66	66.057	ug/l #	46
46) Dibromomethane	5.95	93	59	87.049	ug/l #	6
48) Methyl methacrylate	6.72	41	206	321.597	ug/l #	48
51) 4-Methyl-2-Pentanone	8.24	43	308	471.979	ug/l #	38
53) t-1,3-Dichloropropene	8.27	75	60	40.975	ug/l #	40
54) cis-1,3-Dichloropropene	7.21	75	60	33.099	ug/l #	11
55) 1,1,2-Trichloroethane	8.39	97	70	88.900	ug/l #	15
59) 2-Hexanone	9.49	43	101	220.611	ug/l #	27
74) N-amyl acetate	11.40	43	89	71.724	ug/l #	1
76) 1,2,3-Trichloropropane	11.72	75	73	113.559	ug/l #	38
82) 4-Chlorotoluene	11.91	91	95	25.017	ug/l #	45
83) tert-Butylbenzene	12.20	119	63	14.177	ug/l #	29
86) p-Isopropyltoluene	12.61	119	61	11.960	ug/l #	51
87) 1,3-Dichlorobenzene	12.61	146	66	29.451	ug/l #	24
88) 1,4-Dichlorobenzene	12.61	146	66	30.221	ug/l #	25
89) n-Butylbenzene	12.89	91	64	12.410	ug/l #	27
92) 1,2-Dibromo-3-Chloropropan	13.66	75	79	462.020	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.91 min

Lab File: VF060987.D

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Tot Ion: 168

Sig Exp Ratio

168 100

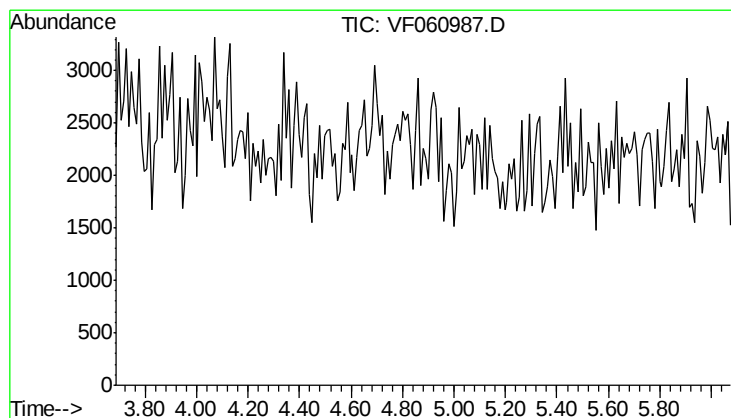
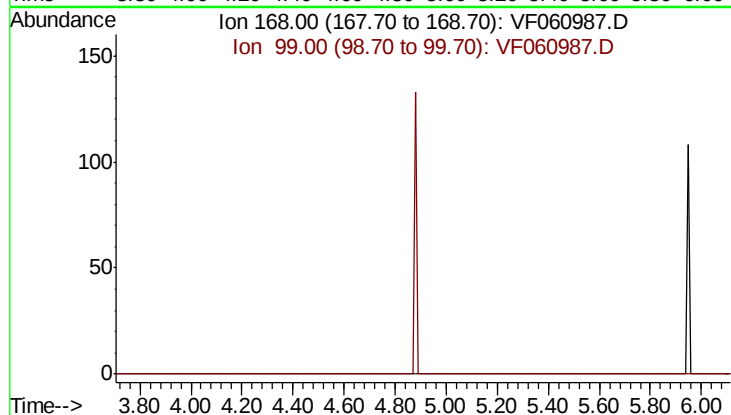
99 65.8

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(0-2)RE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.88 min

Lab File: VF060987.D

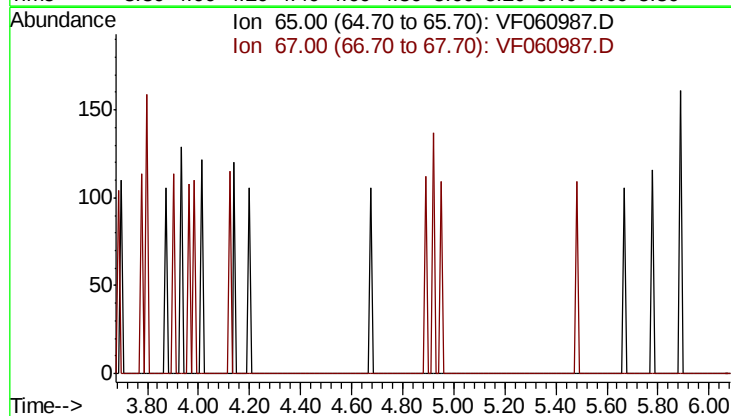
Acq: 11 Dec 2018 20:22

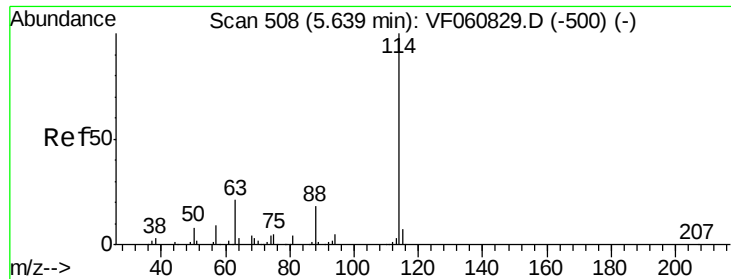
Tgt Ion: 65

Sig Exp Ratio

65 100

67 48.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.03 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

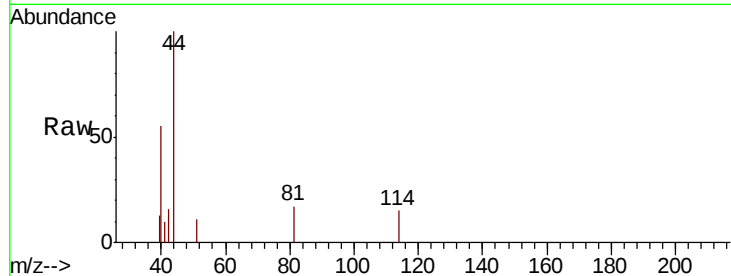
Instrument :

MSVOA_F

ClientSampleId :

SB-7-(0-2)RE

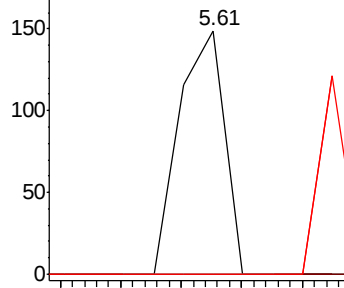
Tot Ion:114	Resp:	157
Ion	Ratio	Lower Upper
114	100	
63	0.0	0.0 41.6
88	0.0	0.0 36.6



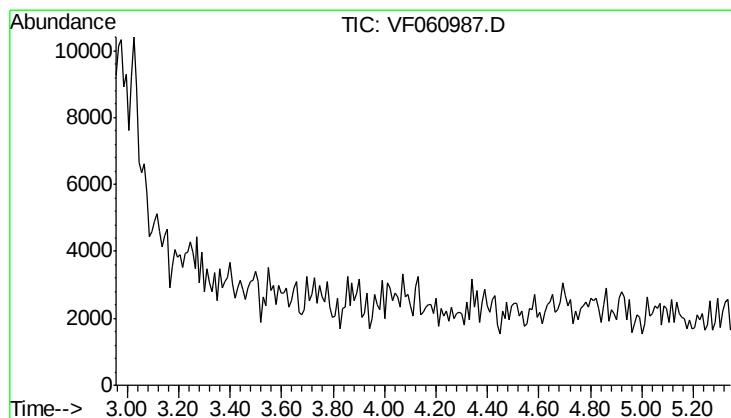
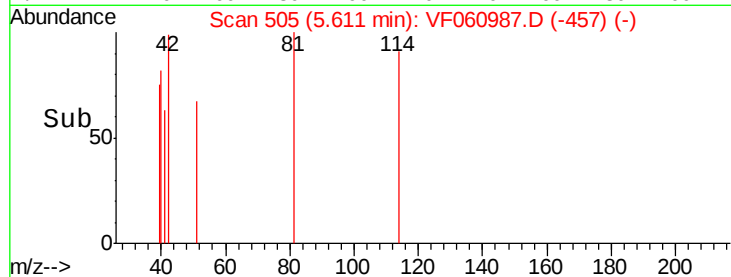
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



Time--> 5.56 5.58 5.60 5.62 5.64



#35

Dibromofluoromethane

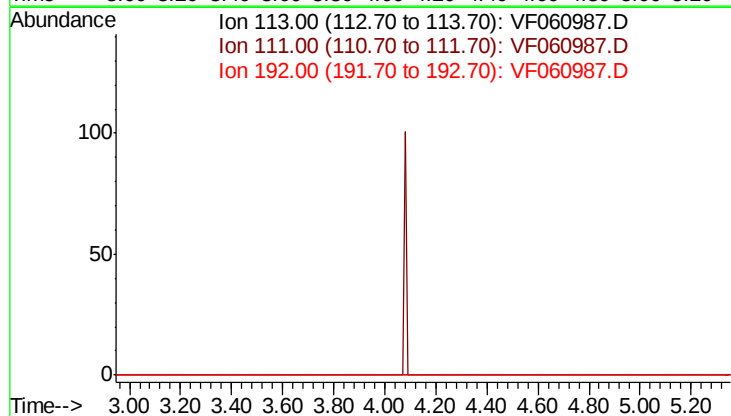
Concen: 0.000 ug/l

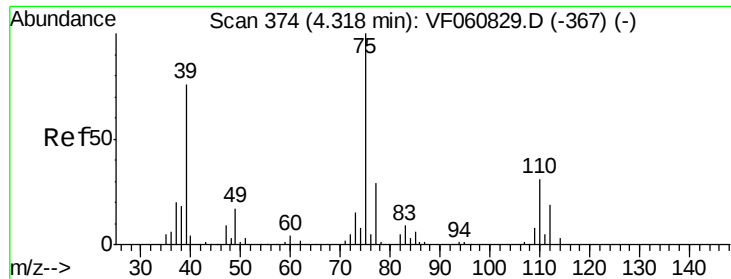
Expected RT: 4.15 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

Tgt Ion: 113	
Sig	Exp Ratio
113	100
111	103.8
192	15.4

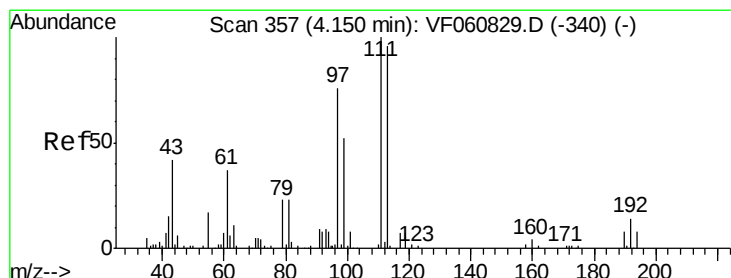
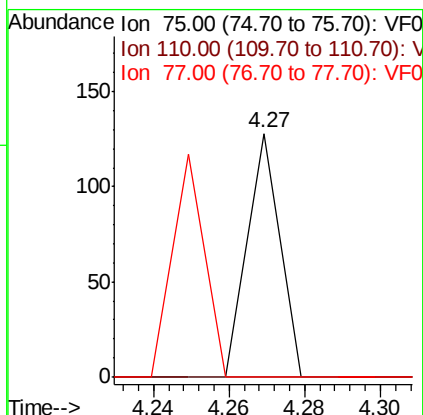
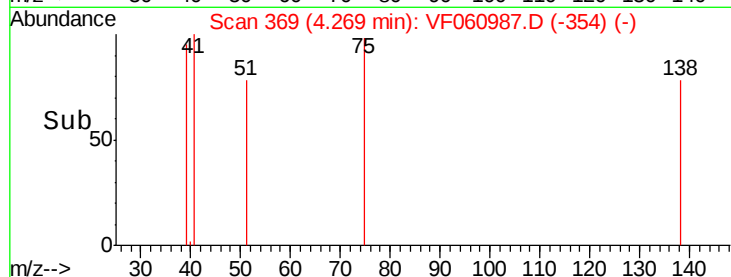
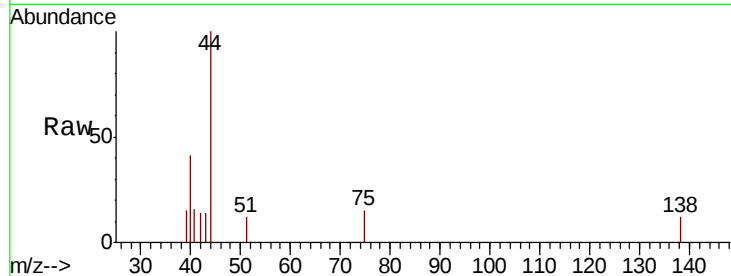




#36
1,1-Dichloropropene
Concen: 43.643 ug/l
RT: 4.27 min Scan# 369
Delta R.T. -0.05 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

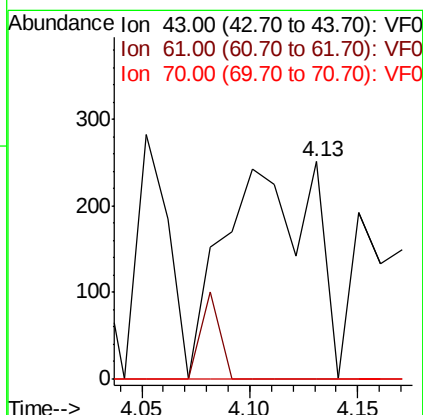
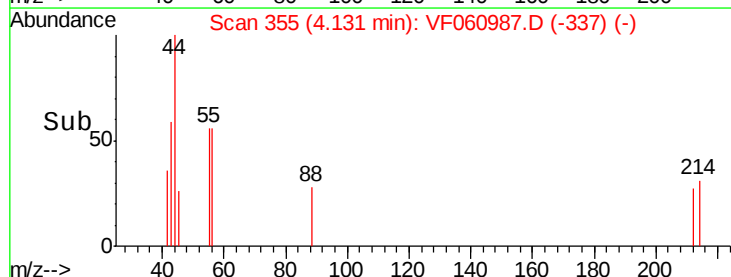
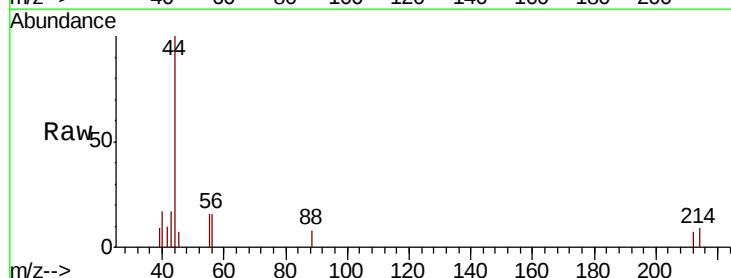
Instrument :
MSVOA_F
ClientSampleId :
SB-7-(0-2)RE

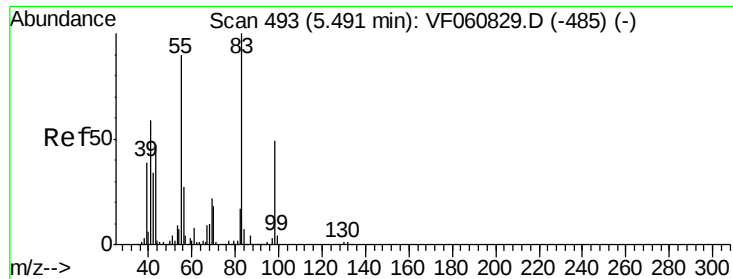
Tot Ion: 75 Resp: 76
Ion Ratio Lower Upper
75 100
110 0.0 15.6 46.8#
77 0.0 23.4 35.0#



#37
Ethyl Acetate
Concen: 989.180 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.02 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

Tgt Ion: 43 Resp: 700
Ion Ratio Lower Upper
43 100
61 0.0 68.6 103.0#
70 0.0 9.0 13.4#





#39

Methvlcvclohexane

Concen: 34.522 ug/l

RT: 5.53 min Scan# 497

Delta R.T. 0.04 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(0-2)RE

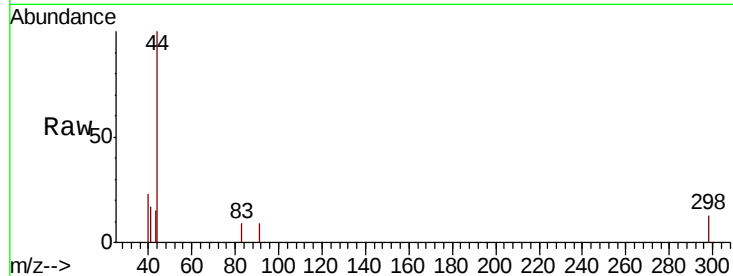
Tot Ion: 83 Resp: 63

Ion Ratio Lower Upper

83 100

55 0.0 72.1 108.1#

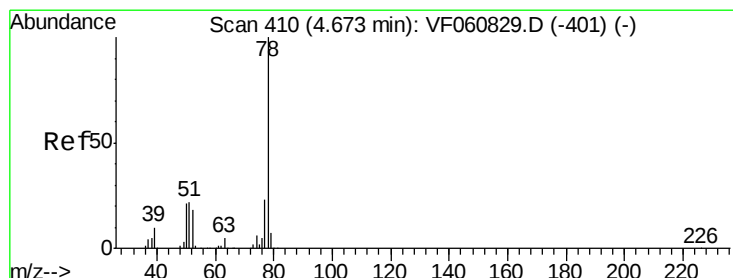
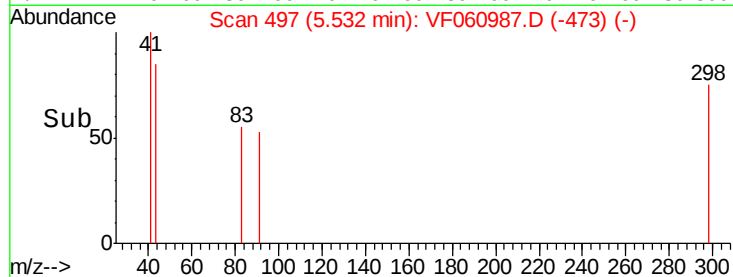
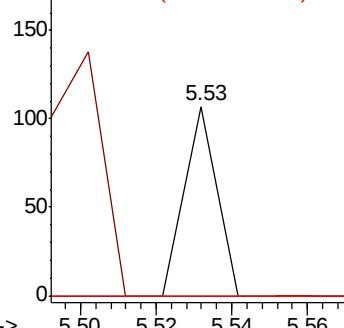
98 0.0 39.1 58.7#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#40

Benzene

Concen: 20.535 ug/l

RT: 4.77 min Scan# 420

Delta R.T. 0.10 min

Lab File: VF060987.D

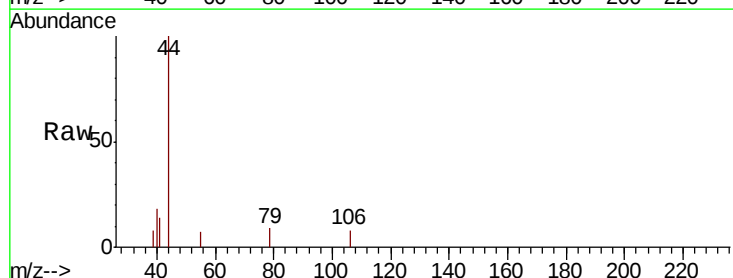
Acq: 11 Dec 2018 20:22

Tgt Ion: 78 Resp: 79

Ion Ratio Lower Upper

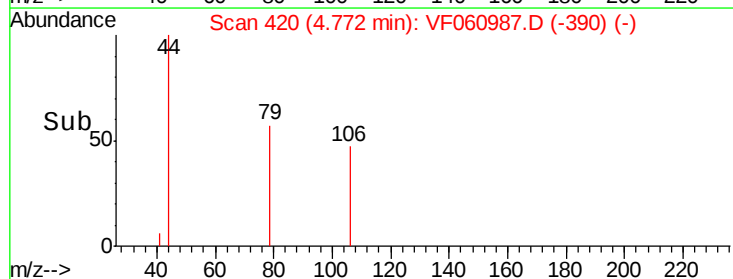
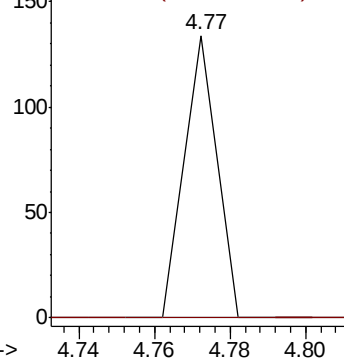
78 100

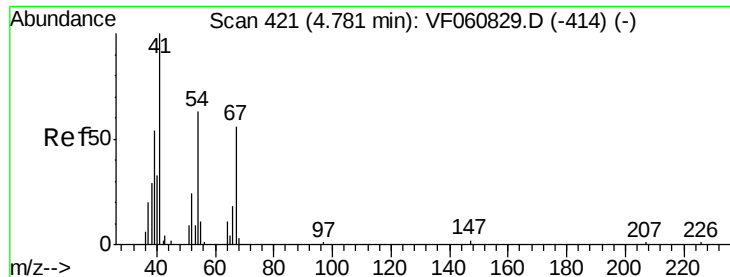
77 0.0 18.7 28.1#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

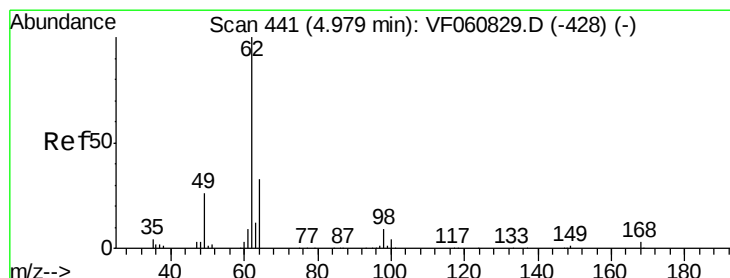
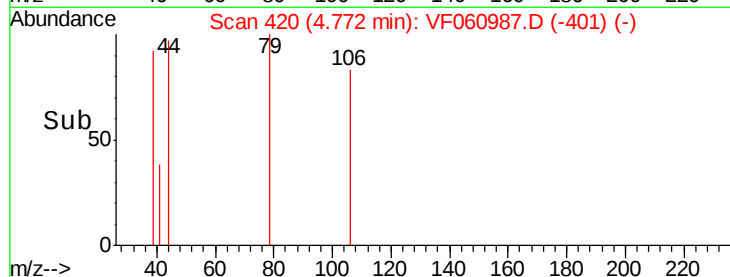
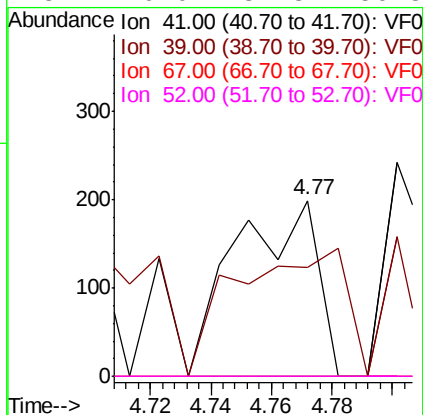
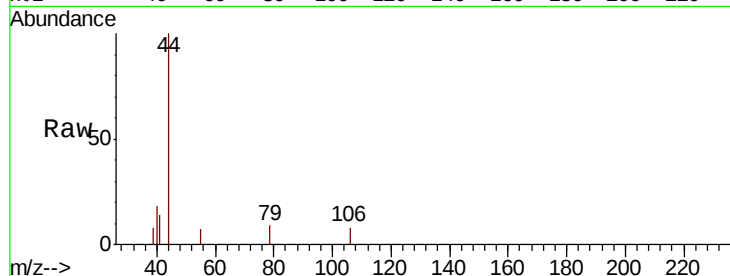




#41
Methacrylonitrile
Concen: 1105.382 ug/l
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

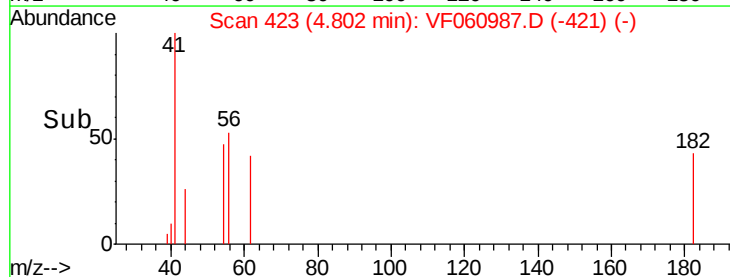
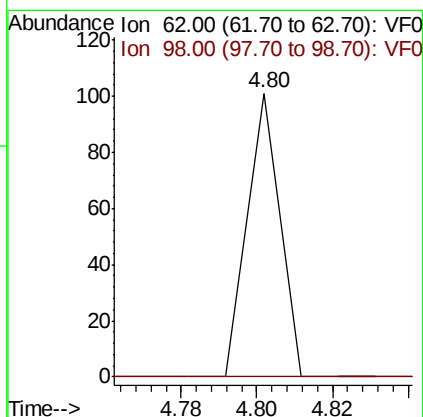
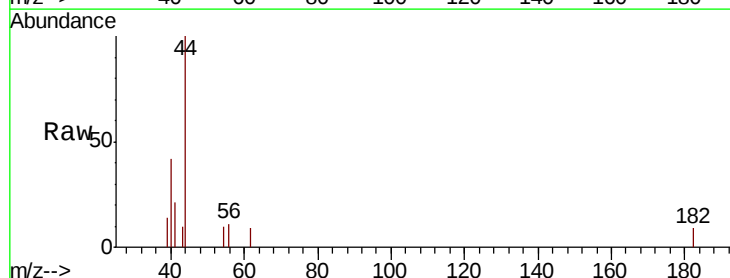
Instrument :
MSVOA_F
ClientSampleId :
SB-7(0-2)RE

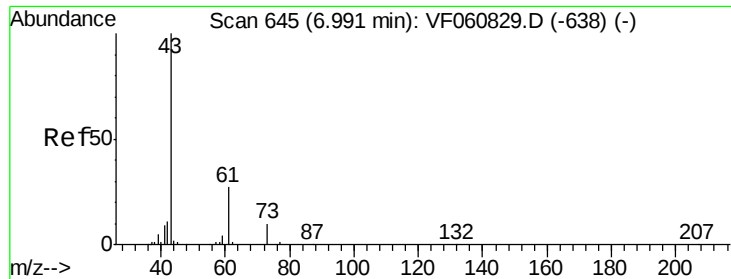
Tot Ion:	41	Resp:	375
Ion	Ratio	Lower	Upper
41	100		
39	61.8	53.0	79.6
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#42
1,2-Dichloroethane
Concen: 42.720 ug/l
RT: 4.80 min Scan# 423
Delta R.T. -0.18 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

Tgt Ion:	62	Resp:	60
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.2





#43

Isopropyl Acetate

Concen: 276.913 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.03 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(0-2)RE

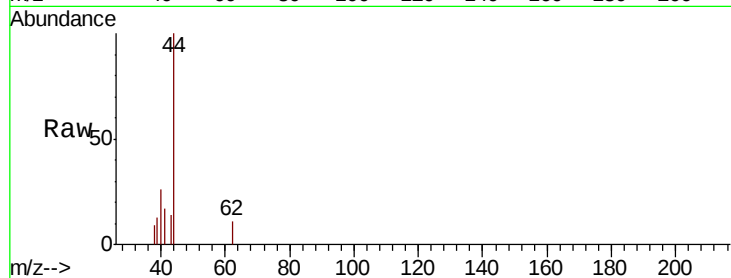
Tot Ion: 43 Resp: 231

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

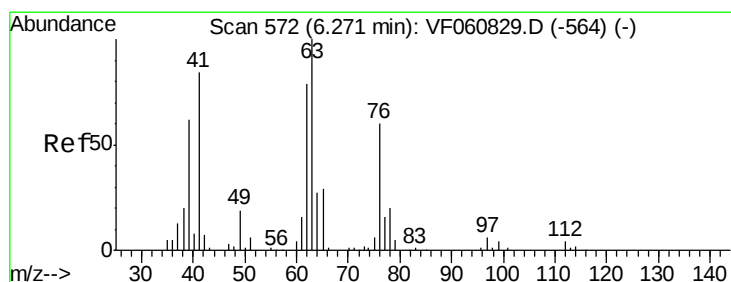
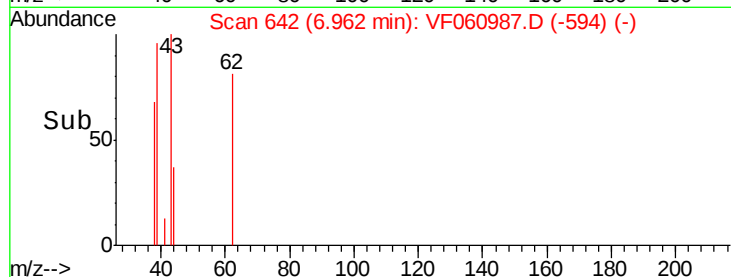
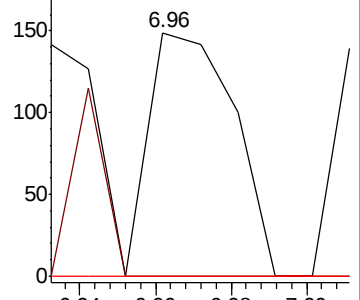
87 0.0 0.2 0.4#



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



#45

1,2-Dichloropropane

Concen: 66.057 ug/l

RT: 6.29 min Scan# 574

Delta R.T. 0.02 min

Lab File: VF060987.D

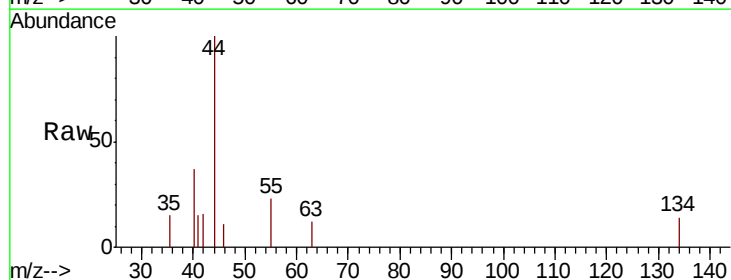
Acq: 11 Dec 2018 20:22

Tgt Ion: 63 Resp: 66

Ion Ratio Lower Upper

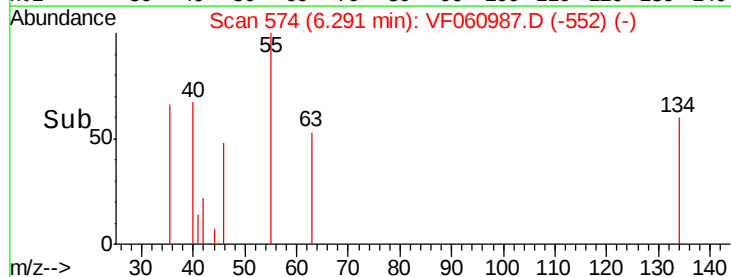
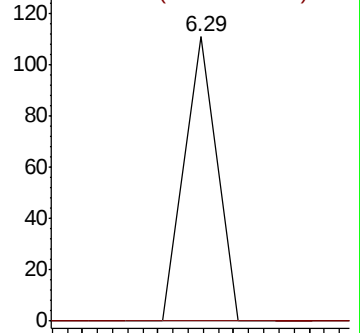
63 100

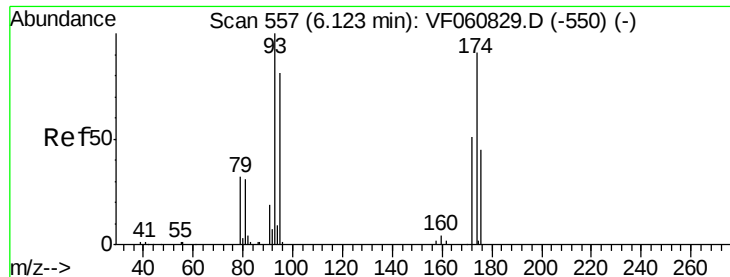
65 0.0 23.2 34.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





#46

Dibromomethane

Concen: 87.049 ug/l

RT: 5.95 min Scan# 539

Delta R.T. -0.18 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(0-2)RE

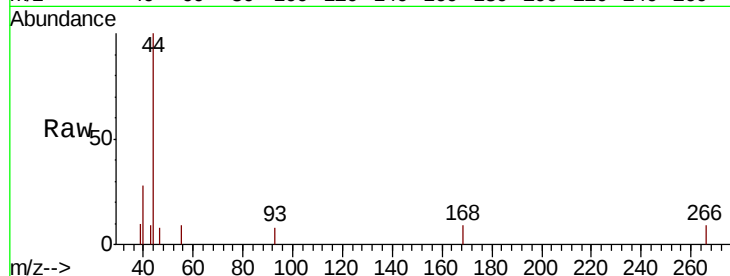
Tot Ion: 93 Resp: 59

Ion Ratio Lower Upper

93 100

95 0.0 64.7 97.1#

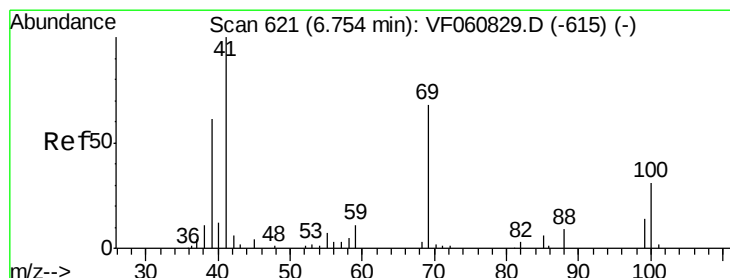
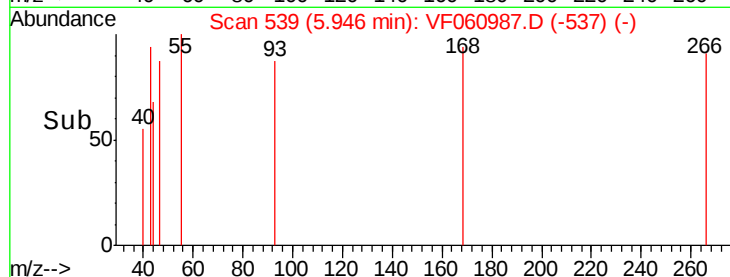
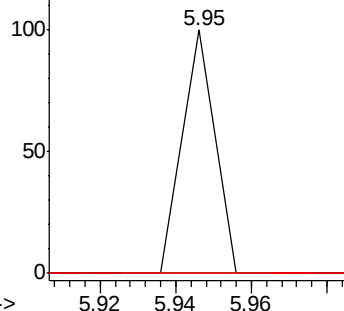
174 0.0 73.0 109.6#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V



#48

Methyl methacrylate

Concen: 321.597 ug/l

RT: 6.72 min Scan# 617

Delta R.T. -0.04 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

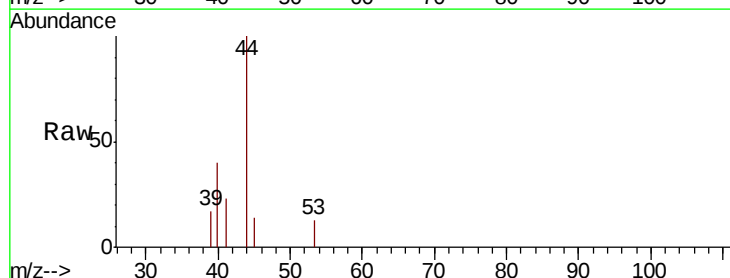
Tgt Ion: 41 Resp: 206

Ion Ratio Lower Upper

41 100

69 0.0 53.9 80.9#

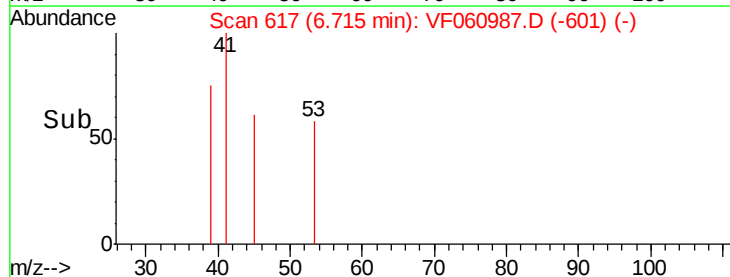
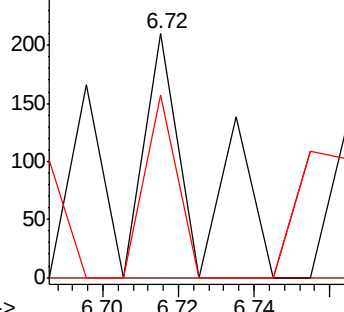
39 74.8 49.0 73.6#

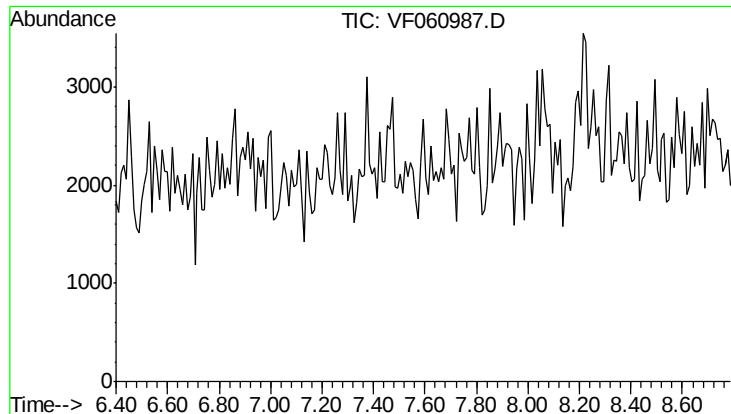


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



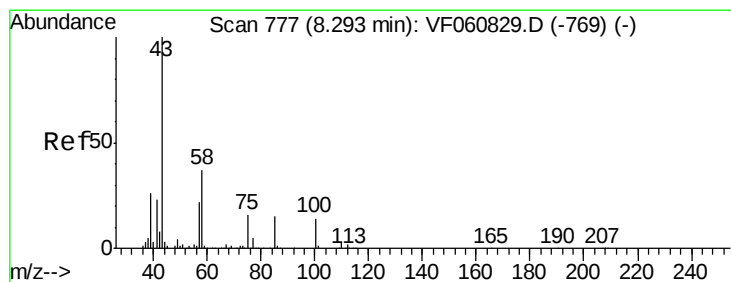
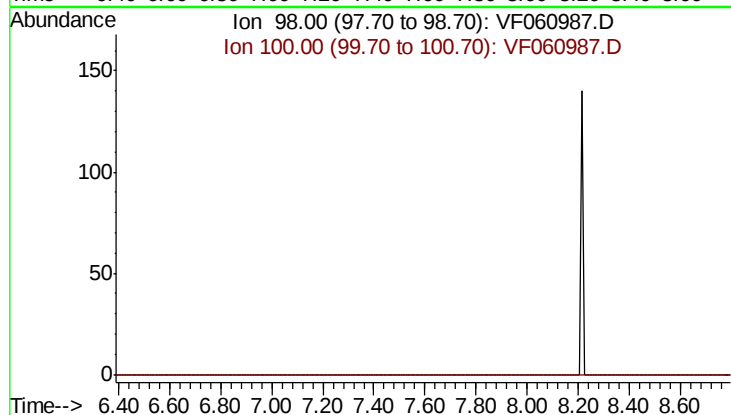


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.59 min

Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

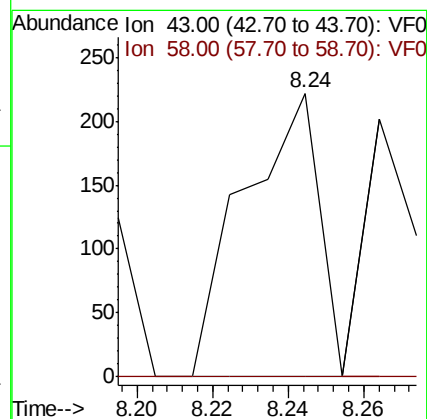
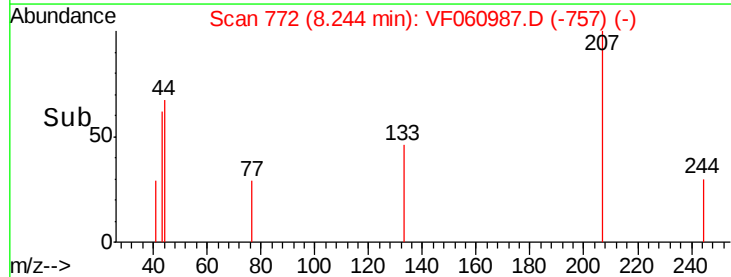
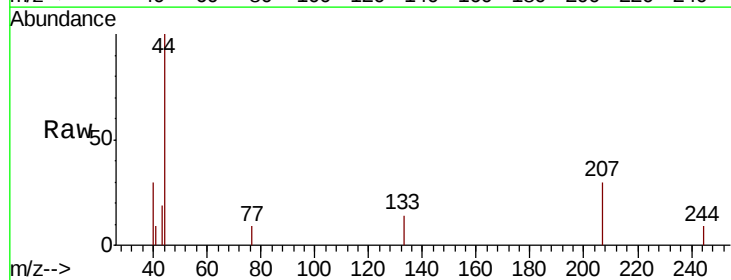
Instrument :
MSVOA_F
ClientSampleId :
SB-7-(0-2)RE

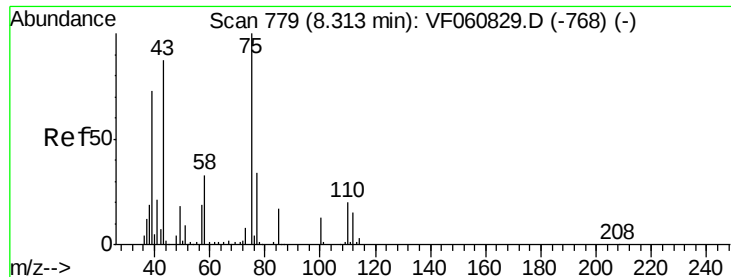
Tot Ion: 98
Sig Exp Ratio
98 100
100 74.1



#51
4-Methyl-2-Pentanone
Concen: 471.979 ug/l
RT: 8.24 min Scan# 772
Delta R.T. -0.05 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

Tgt Ion: 43 Resp: 308
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#





#53

t-1,3-Dichloropropene

Concen: 40.975 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.04 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

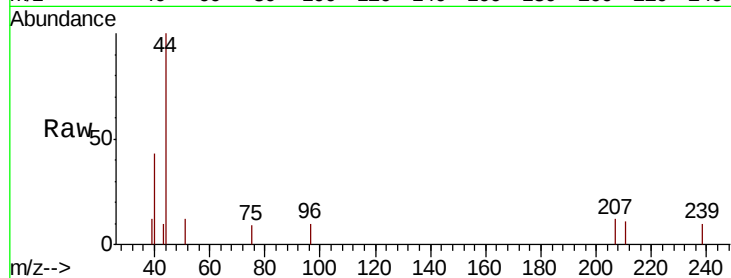
SB-7-(0-2)RE

Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

77 0.0 27.4 41.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

150

100

50

0

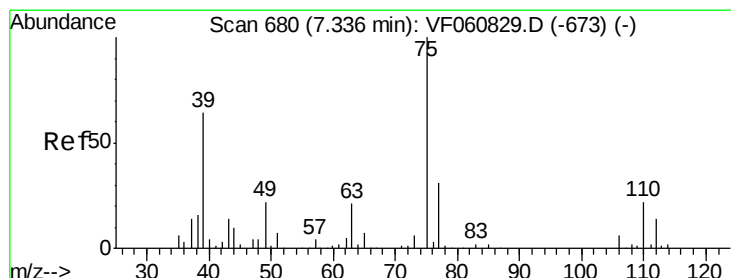
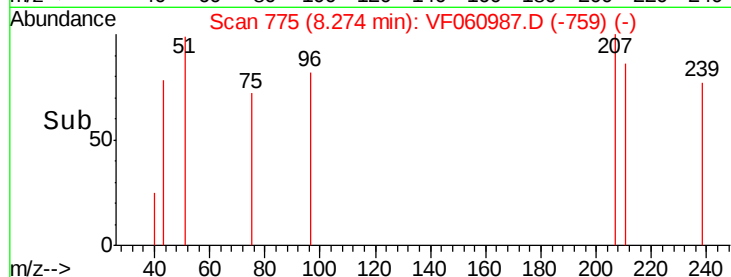
8.24

8.26

8.27

8.30

Time-->



#54

cis-1,3-Dichloropropene

Concen: 33.099 ug/l

RT: 7.21 min Scan# 667

Delta R.T. -0.13 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

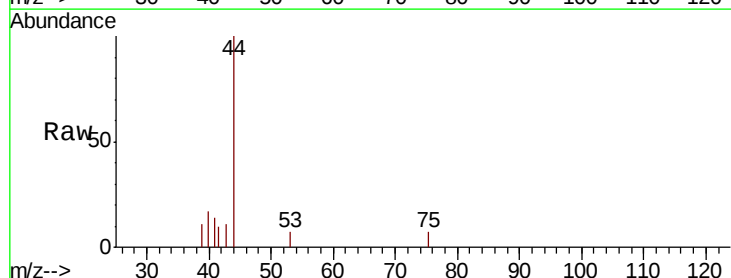
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 145.5 51.1 76.7#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

250

200

150

100

50

0

7.18

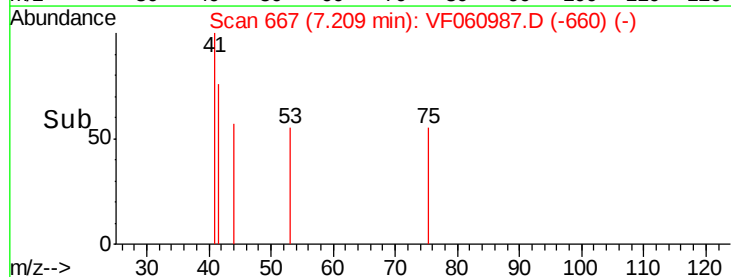
7.20

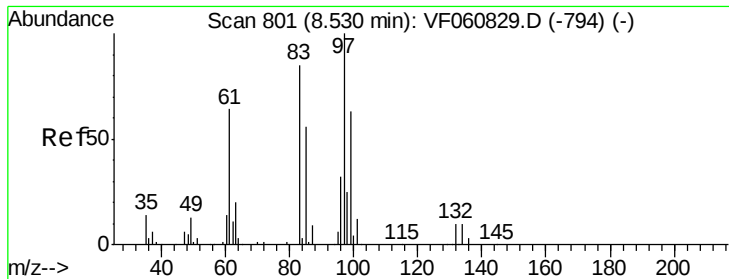
7.21

7.22

7.24

Time-->





#55

1,1,2-Trichloroethane

Concen: 88.900 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.14 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(0-2)RE

Tot Ion: 97 Resp: 70

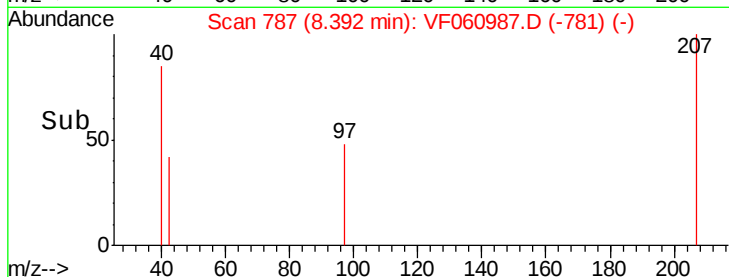
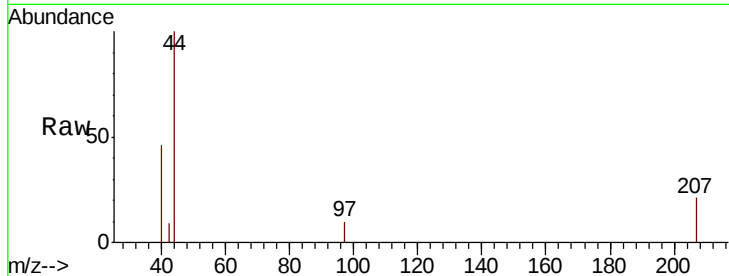
Ion Ratio Lower Upper

97 100

83 0.0 67.8 101.6#

85 0.0 45.0 67.6#

99 0.0 50.5 75.7#

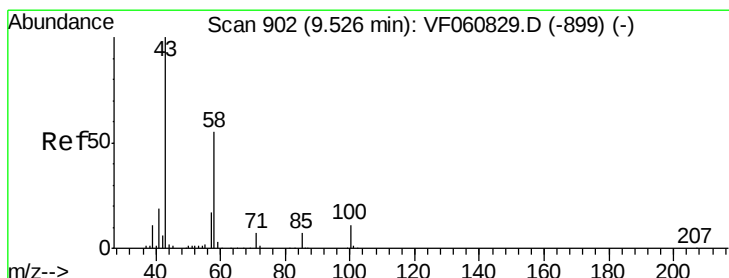
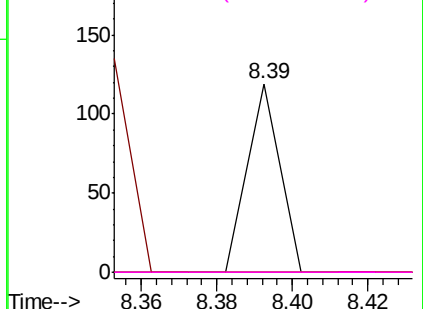


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#59

2-Hexanone

Concen: 220.611 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.04 min

Lab File: VF060987.D

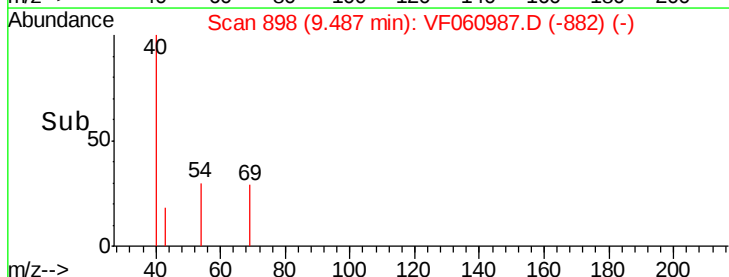
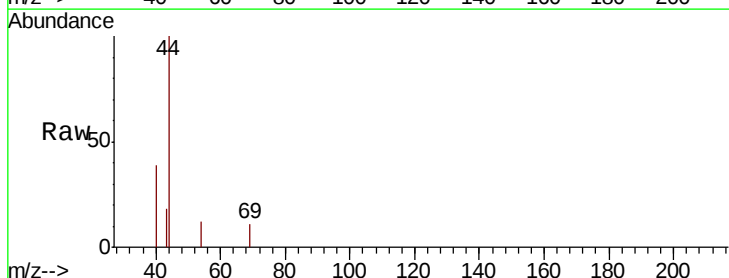
Acq: 11 Dec 2018 20:22

Tgt Ion: 43 Resp: 101

Ion Ratio Lower Upper

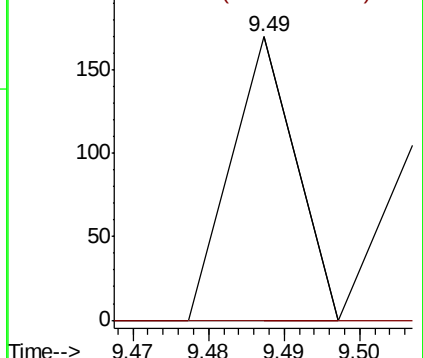
43 100

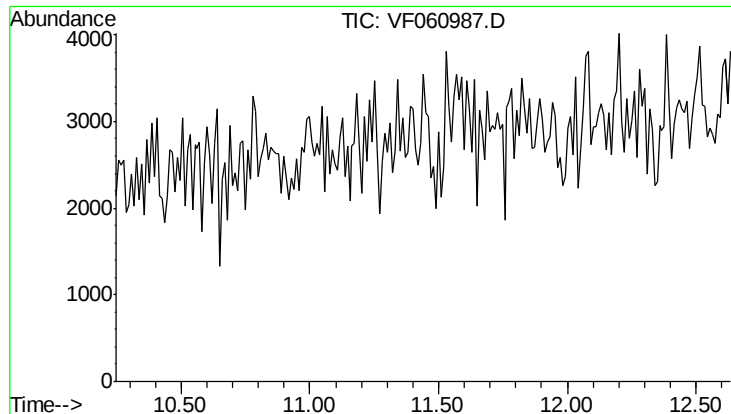
58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

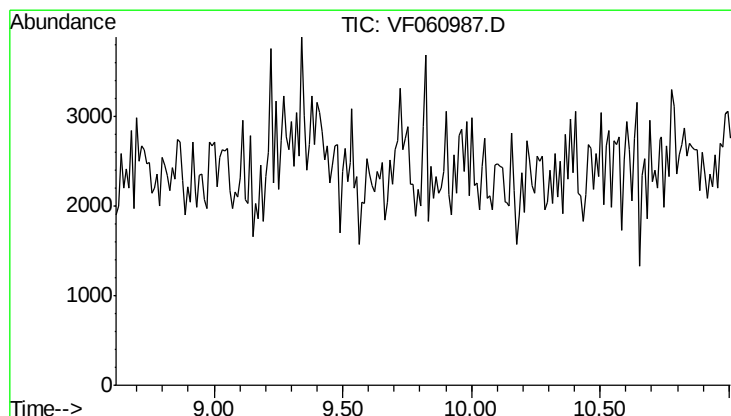
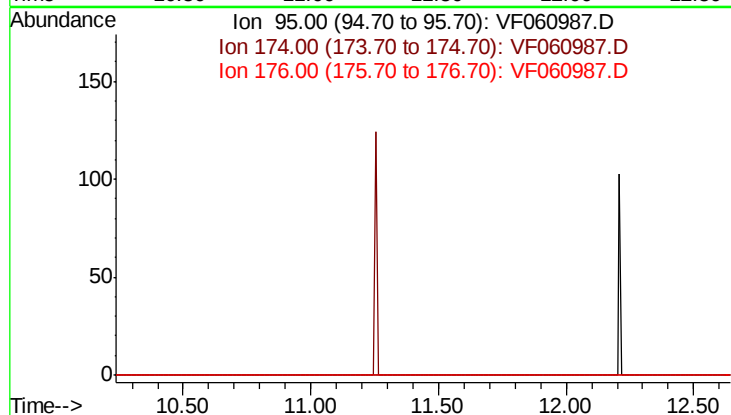




#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 11.44 min
 Lab File: VF060987.D
 Acq: 11 Dec 2018 20:22

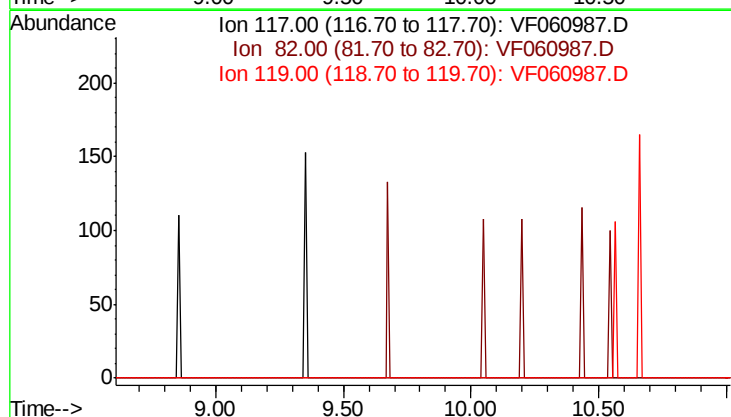
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-7-(0-2)RE

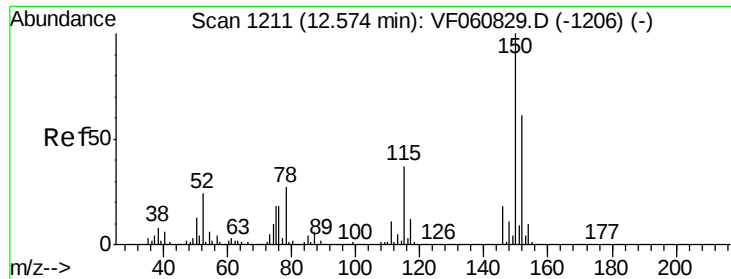
Tot Ion	95
Sig	Exp Ratio
95	100
174	69.1
176	73.1



#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.81 min
 Lab File: VF060987.D
 Acq: 11 Dec 2018 20:22

Tgt Ion	117
Sig	Exp Ratio
117	100
82	58.2
119	33.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. 0.00 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

SB-7-(0-2)RE

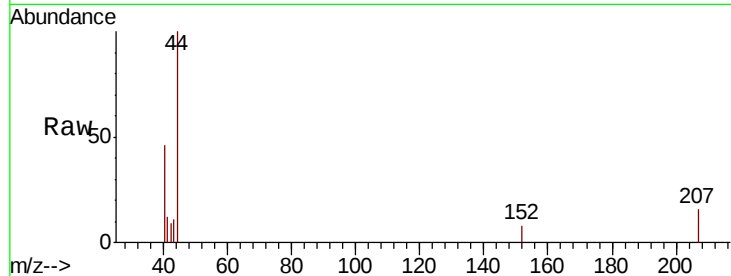
Tot Ion:152 Resp: 68

Ion Ratio Lower Upper

152 100

115 0.0 30.1 90.5#

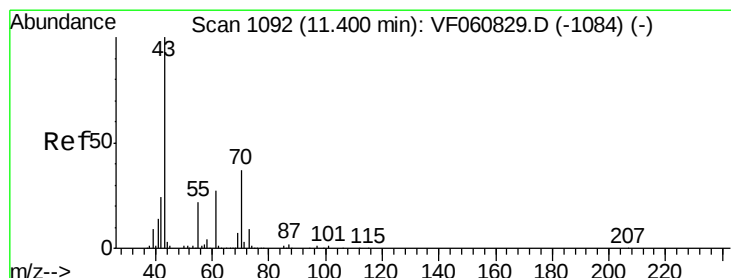
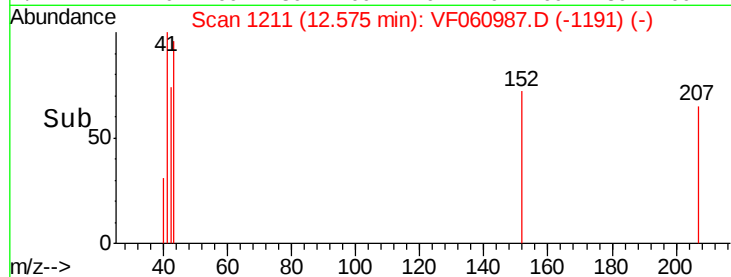
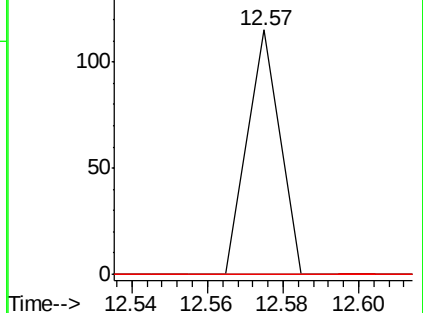
150 0.0 0.0 327.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 71.724 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

Tgt Ion: 43 Resp: 89

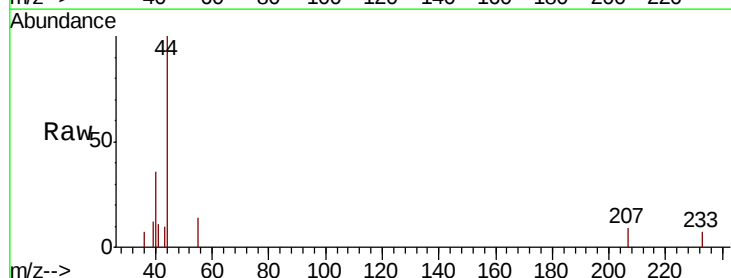
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 142.7 17.2 25.8#

61 0.0 21.8 32.6#

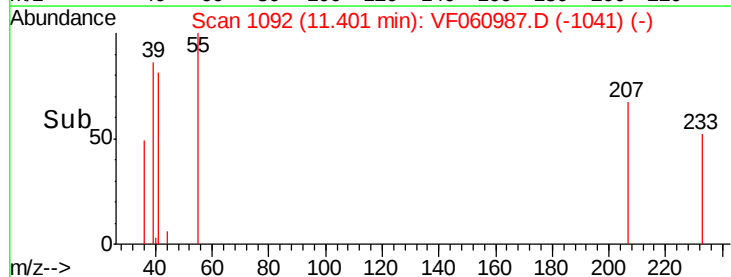
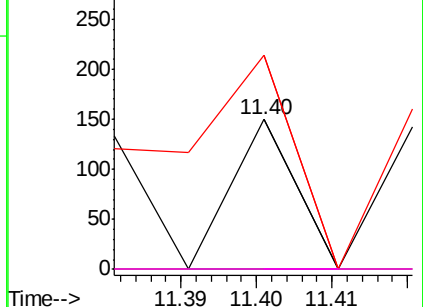


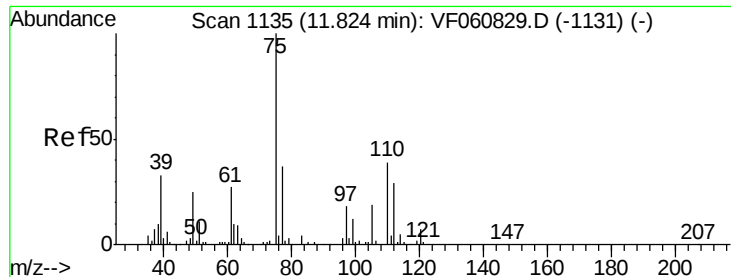
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

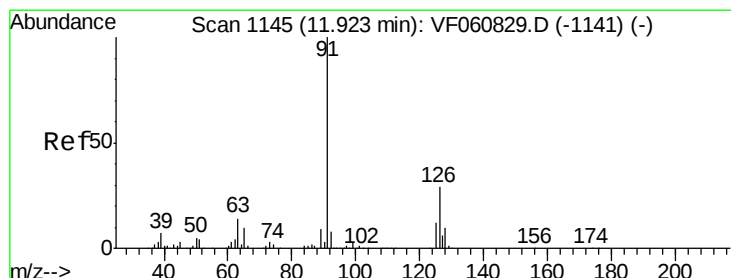
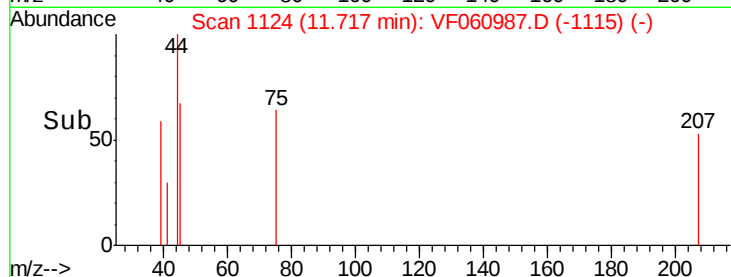
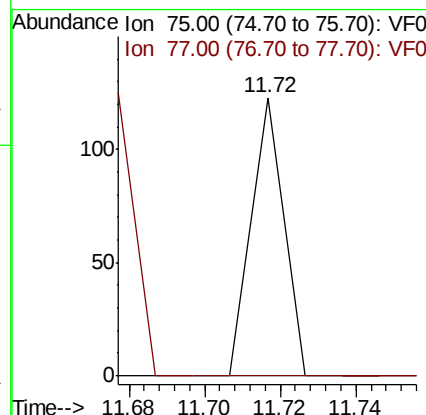
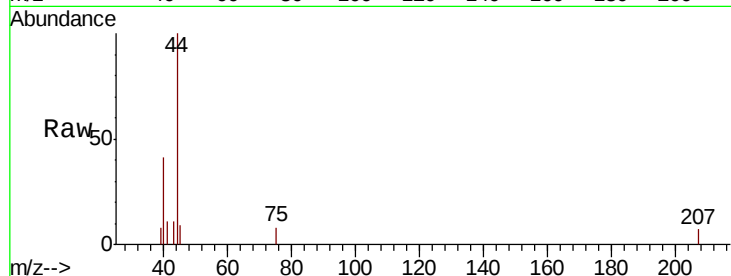




#76
 1,2,3-Trichloropropane
 Concen: 113.559 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. -0.11 min
 Lab File: VF060987.D
 Acq: 11 Dec 2018 20:22

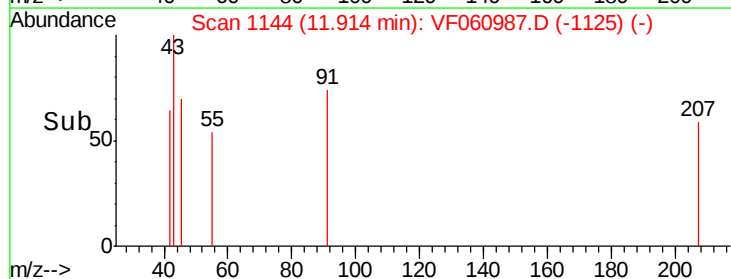
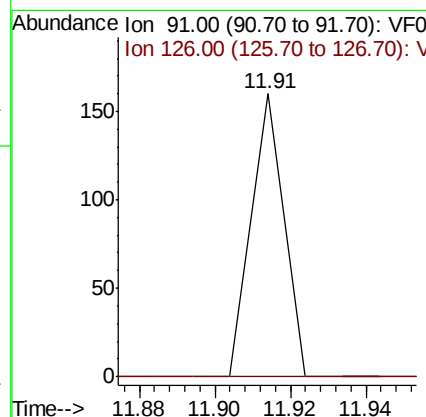
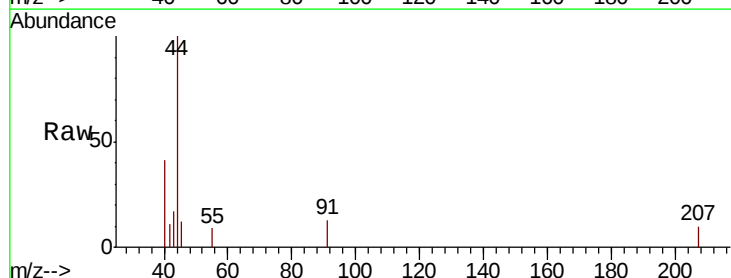
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-7-(0-2)RE

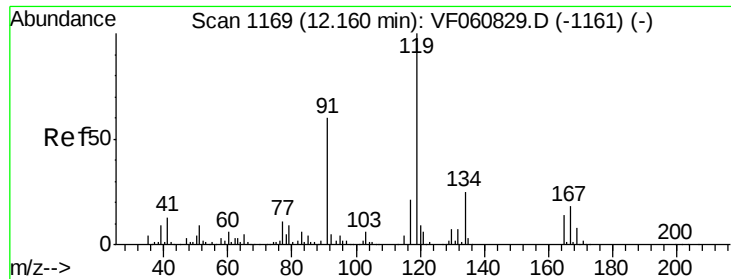
Tot Ion: 75 Resp: 73
 Ion Ratio Lower Upper
 75 100
 77 0.0 18.4 55.4#



#82
 4-Chlorotoluene
 Concen: 25.017 ug/l
 RT: 11.91 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VF060987.D
 Acq: 11 Dec 2018 20:22

Tgt Ion: 91 Resp: 95
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.8 44.4#

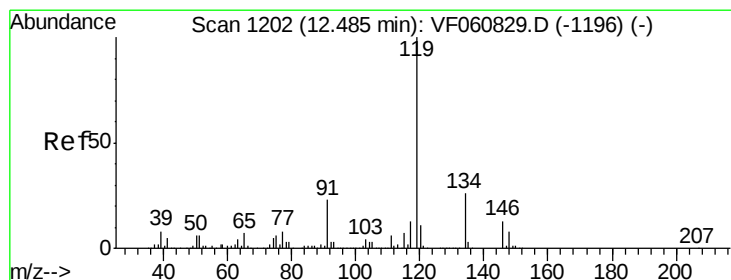
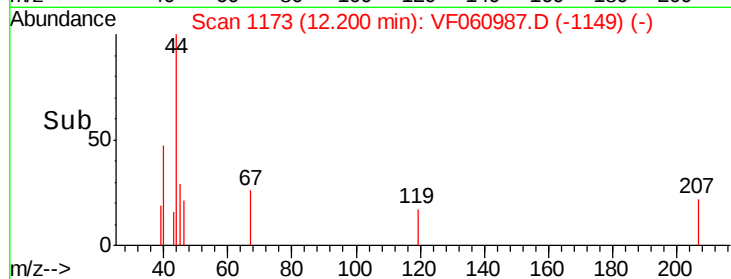
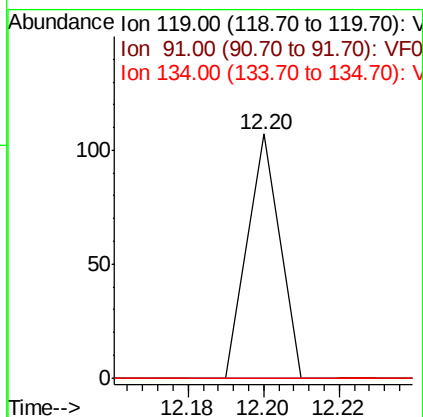
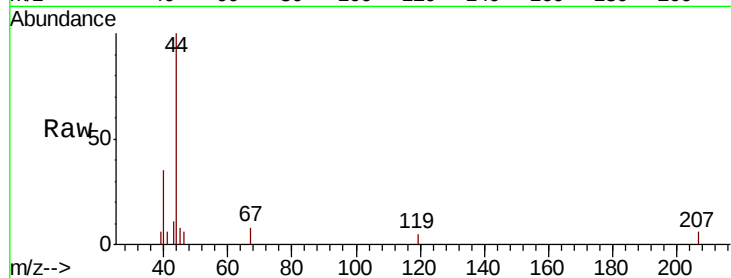




#83
tert-Butylbenzene
Concen: 14.177 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. 0.04 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

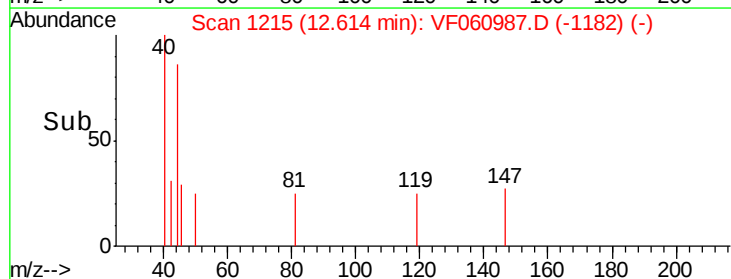
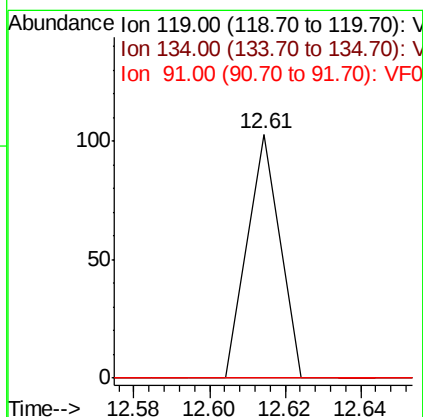
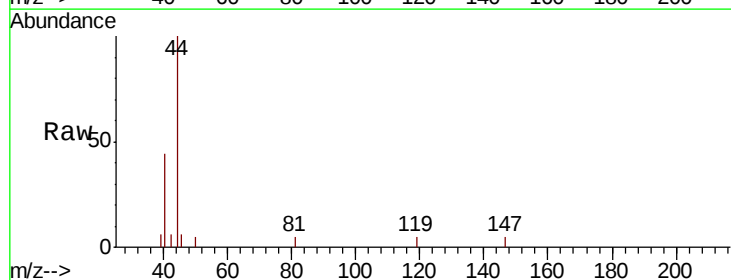
Instrument :
MSVOA_F
ClientSampleId :
SB-7-(0-2)RE

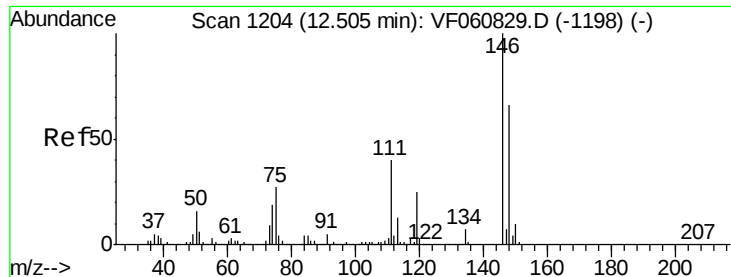
Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	30.1	90.3#
134	0.0	12.6	37.8#



#86
p-Isopropyltoluene
Concen: 11.960 ug/l
RT: 12.61 min Scan# 1215
Delta R.T. 0.13 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.9	38.6#
91	0.0	11.8	35.3#





#87

1,3-Dichlorobenzene

Concen: 29.451 ug/l

RT: 12.61 min Scan# 1215

Delta R.T. 0.11 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

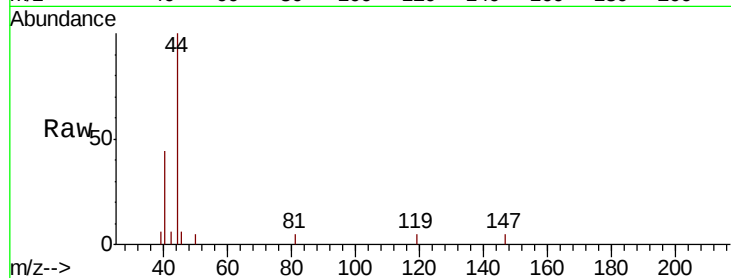
Instrument :

MSVOA_F

ClientSampleId :

SB-7-(0-2)RE

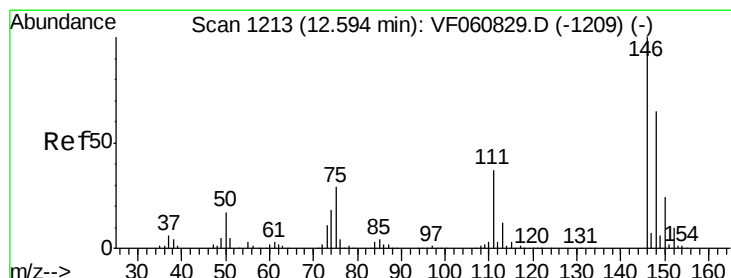
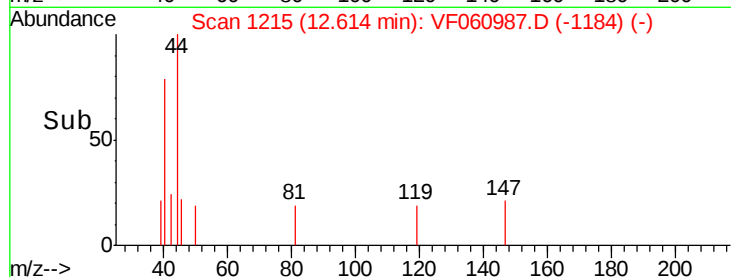
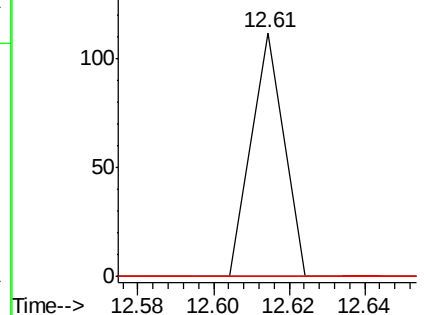
Tot Ion:146	Resp:	66
Ion Ratio	Lower	Upper
146	100	
111	0.0	20.0 59.9#
148	0.0	32.9 98.6#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 30.221 ug/l

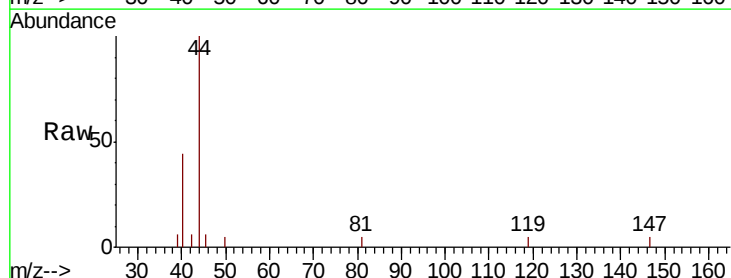
RT: 12.61 min Scan# 1215

Delta R.T. 0.02 min

Lab File: VF060987.D

Acq: 11 Dec 2018 20:22

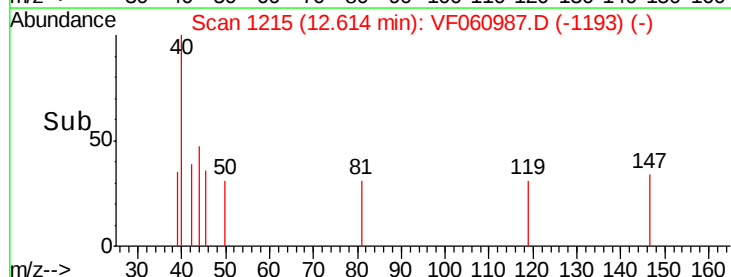
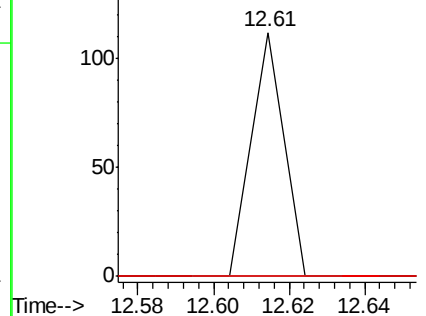
Tgt Ion:146	Resp:	66
Ion Ratio	Lower	Upper
146	100	
111	0.0	18.9 56.7#
148	0.0	32.3 96.9#

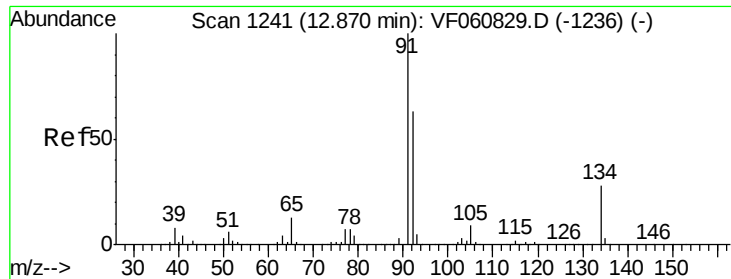


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

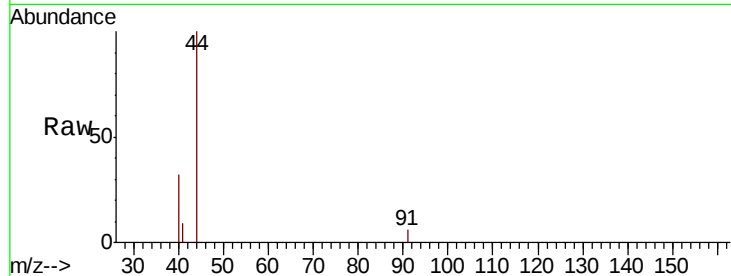




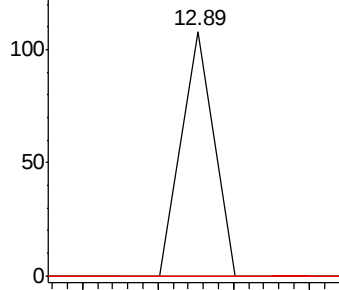
#89
n-Butylbenzene
Concen: 12.410 ug/l
RT: 12.89 min Scan# 1243
Delta R.T. 0.02 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

Instrument :
MSVOA_F
ClientSampleId :
SB-7-(0-2)RE

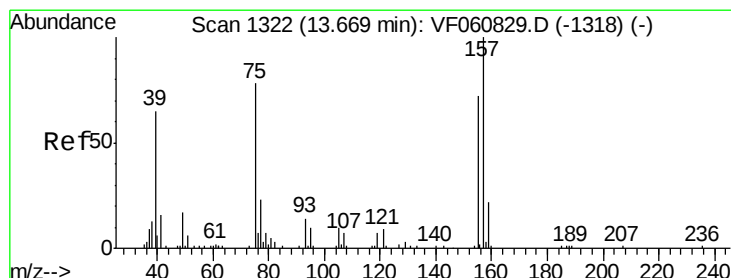
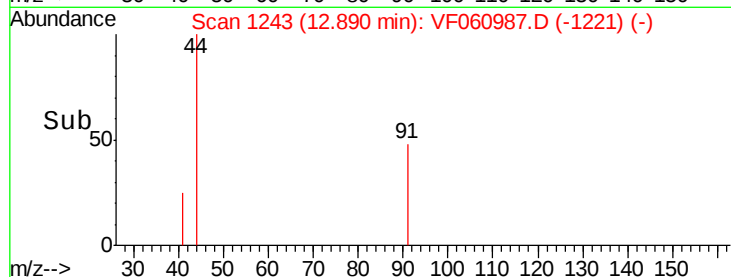
Tot Ion: 91 Resp: 64
Ion Ratio Lower Upper
91 100
92 0.0 31.6 94.7#
134 0.0 13.8 41.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 92.00 (91.70 to 92.70): VF0
Ion 134.00 (133.70 to 134.70): V

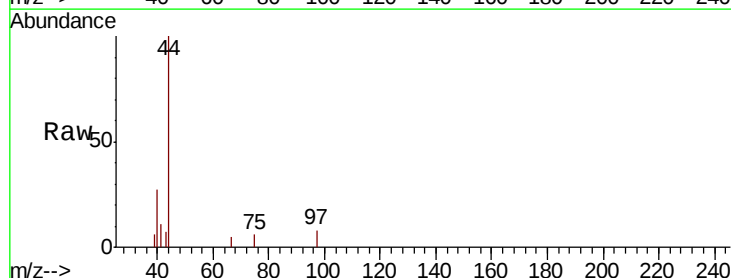


Time-->

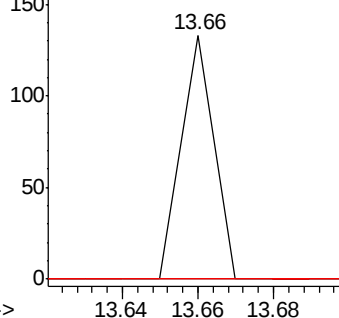


#92
1,2-Dibromo-3-Chloropropane
Concen: 462.020 ug/l
RT: 13.66 min Scan# 1321
Delta R.T. -0.01 min
Lab File: VF060987.D
Acq: 11 Dec 2018 20:22

Tgt Ion: 75 Resp: 79
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



Time-->

