

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011419\
 Data File : VF061397.D
 Acq On : 14 Jan 2019 18:59
 Operator : VA/AP
 Sample : K1139-09
 Misc : 4.54g/5mL/MSVOA-F/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jan 14 21:42:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	45417	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	60707	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	30029	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	4656	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	14947	29.57	ug/l	-0.02
Spiked Amount			Recovery	=	59.14%	
35) Dibromofluoromethane	4.09	113	21909	47.17	ug/l	-0.02
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	7.55	98	55932	40.69	ug/l	-0.02
Spiked Amount			Recovery	=	81.38%	
62) 4-Bromofluorobenzene	11.40	95	9331	15.55	ug/l	-0.01
Spiked Amount			Recovery	=	31.10%	

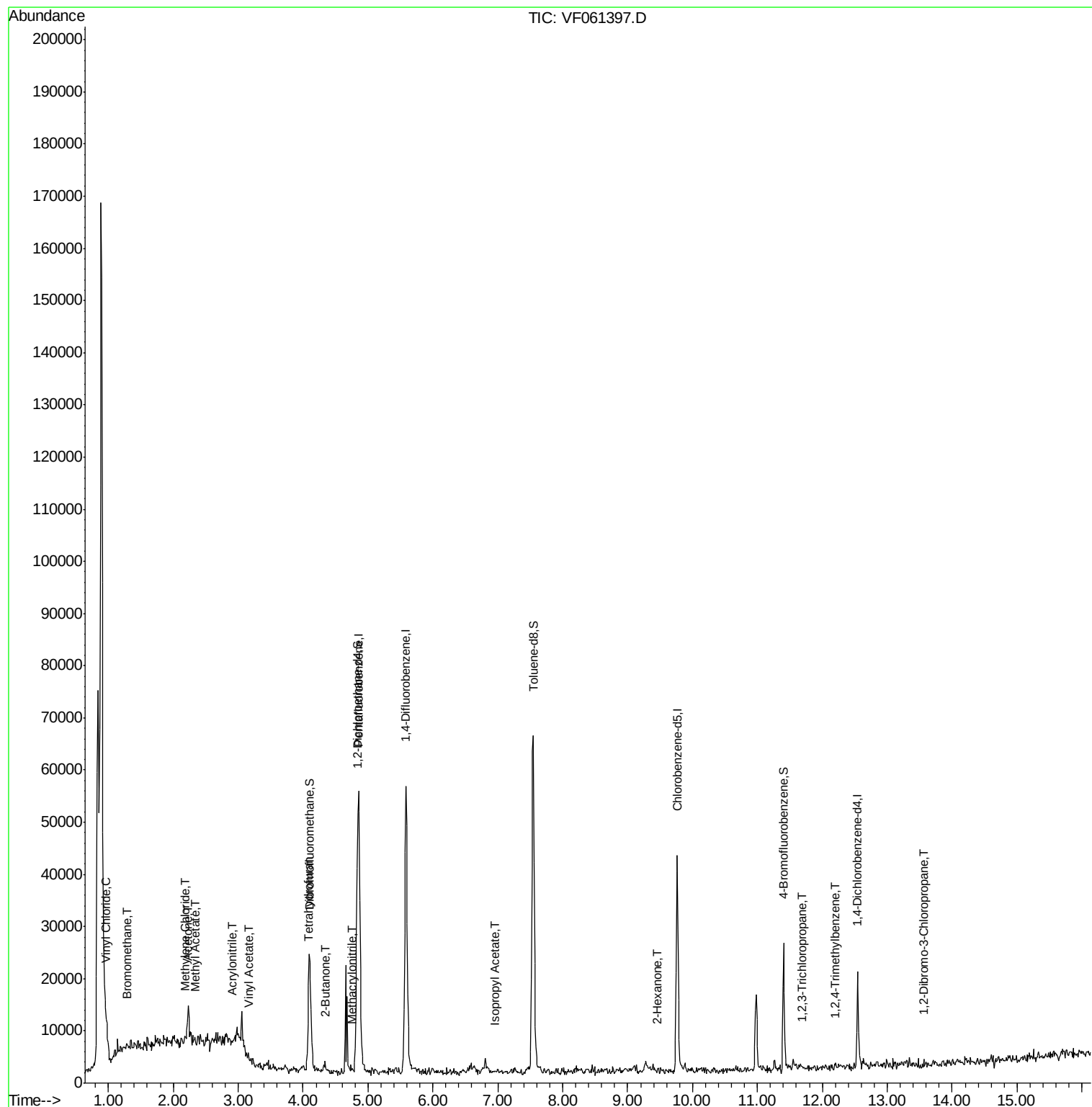
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	0.97	62	722	1.083	ug/l #	43
5) Bromomethane	1.28	94	361	3.496	ug/l #	6
13) Acrolein	1.96	56	379	Below Cal	#	64
15) Acrylonitrile	2.91	53	152	2.118	ug/l #	12
16) Acetone	2.23	43	10672	90.751	ug/l #	83
18) Methyl Acetate	2.35	43	647	2.796	ug/l #	65
20) Methylene Chloride	2.18	84	905	1.819	ug/l #	61
23) Vinyl Acetate	3.16	43	914	1.852	ug/l #	77
25) 2-Butanone	4.34	43	3680	19.443	ug/l #	56
29) Tetrahydrofuran	4.07	42	88	1.112	ug/l #	36
41) Methacrylonitrile	4.76	41	386	2.677	ug/l #	60
43) Isopropyl Acetate	6.95	43	373	1.094	ug/l #	45
59) 2-Hexanone	9.45	43	278	1.525	ug/l #	27
76) 1,2,3-Trichloropropane	11.69	75	72	1.511	ug/l #	40
84) 1,2,4-Trimethylbenzene	12.20	105	388	1.199	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.57	75	67	6.104	ug/l #	1

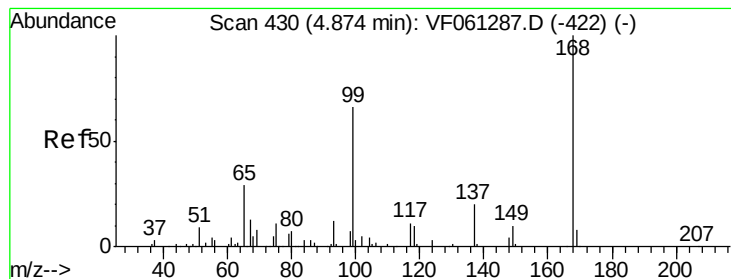
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

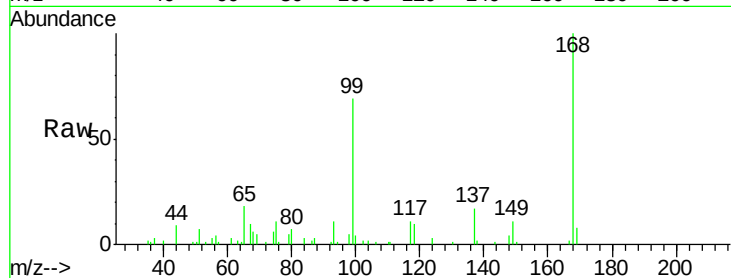
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 45417

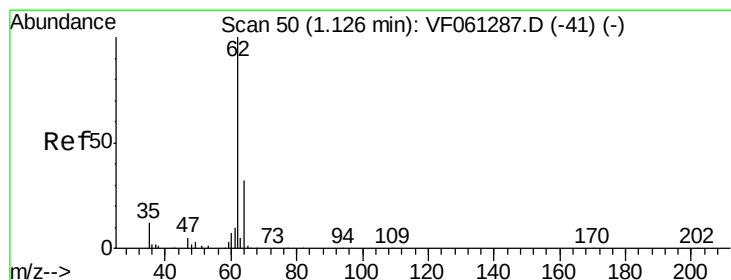
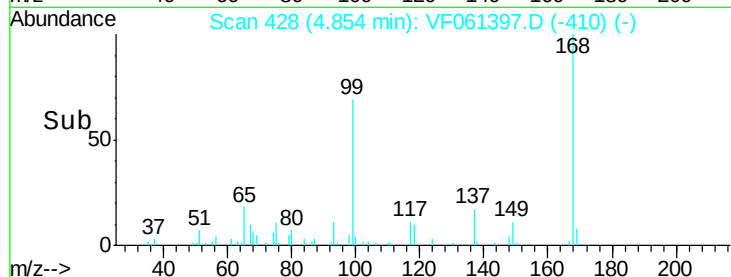
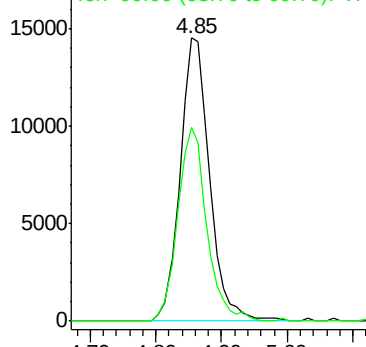
Ion Ratio Lower Upper

168 100

99 68.6 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0



#4

Vinyl Chloride

Concen: 1.083 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.16 min

Lab File: VF061397.D

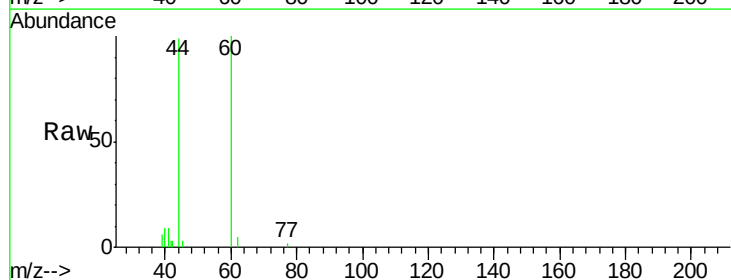
Acq: 14 Jan 2019 18:59

Tgt Ion: 62 Resp: 722

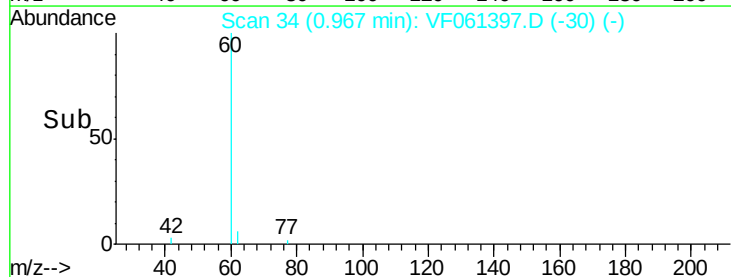
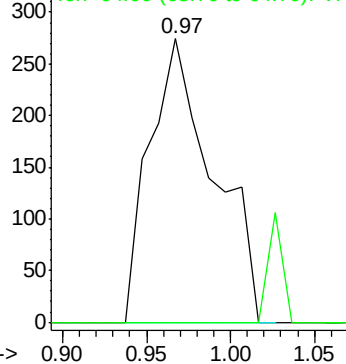
Ion Ratio Lower Upper

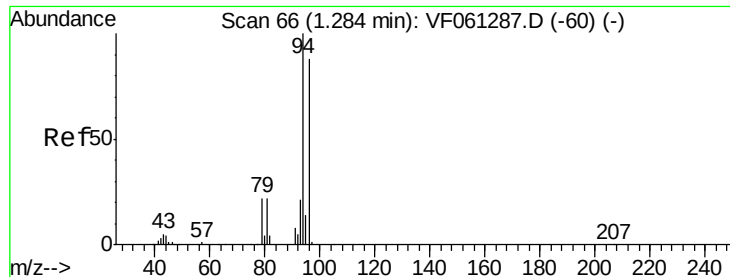
62 100

64 0.0 25.4 38.0#



Abundance Ion 62.00 (61.70 to 62.70): VF0





#5

Bromomethane

Concen: 3.496 ug/l

RT: 1.28 min Scan# 66

Delta R.T. -0.00 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

Instrument :

MSVOA_F

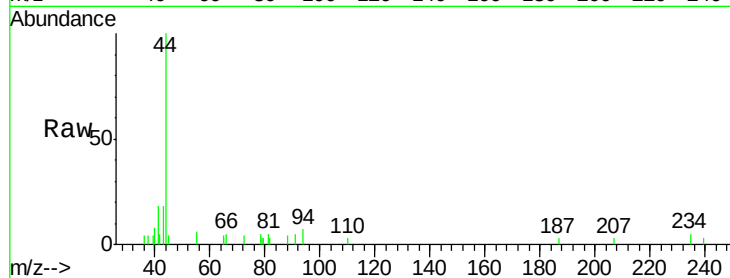
ClientSampleId :

Tot Ion: 94 Resp: 361

Ion Ratio Lower Upper

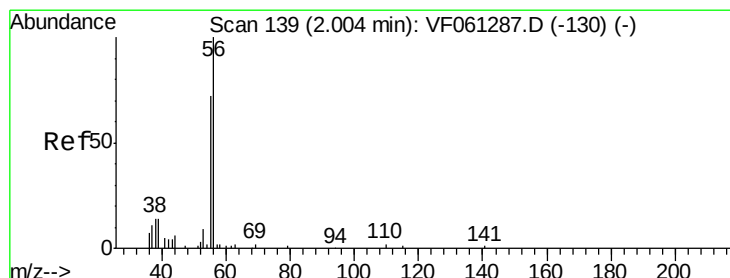
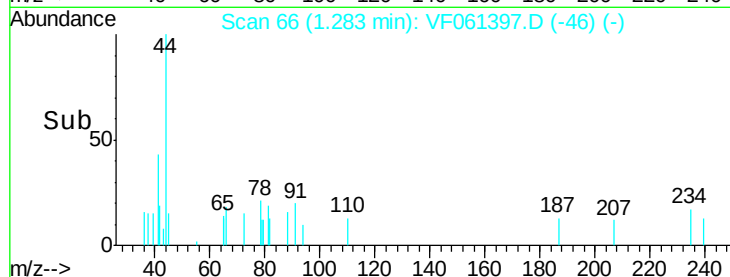
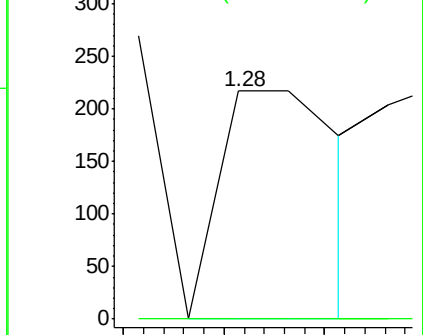
94 100

96 0.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#13

Acrolein

Concen: Below Cal

RT: 1.96 min Scan# 135

Delta R.T. -0.04 min

Lab File: VF061397.D

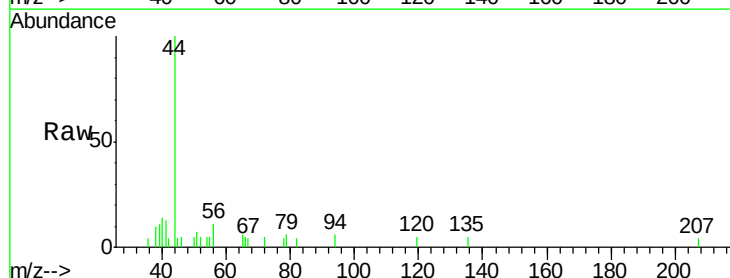
Acq: 14 Jan 2019 18:59

Tgt Ion: 56 Resp: 379

Ion Ratio Lower Upper

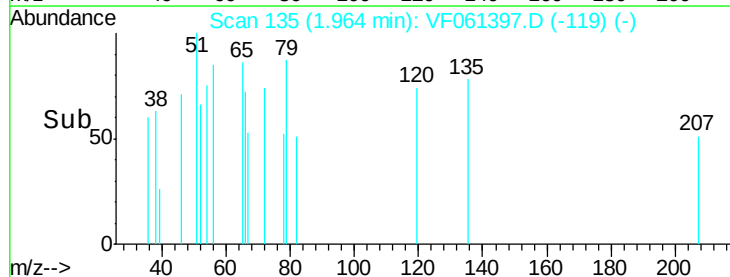
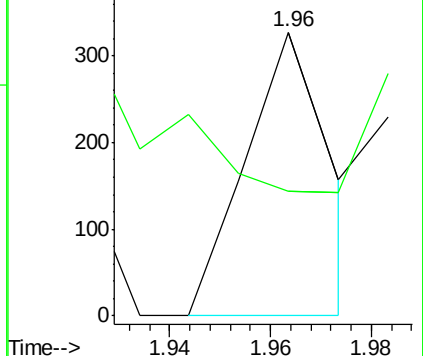
56 100

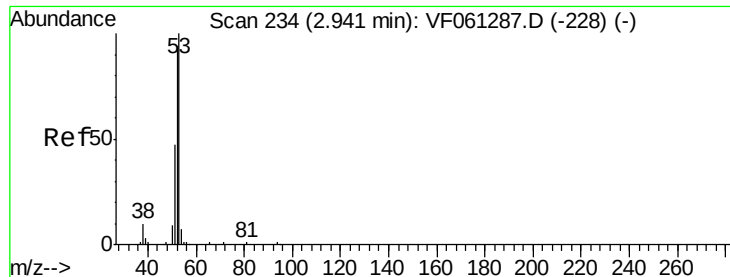
55 44.0 59.4 89.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 2.118 ug/l

RT: 2.91 min Scan# 231

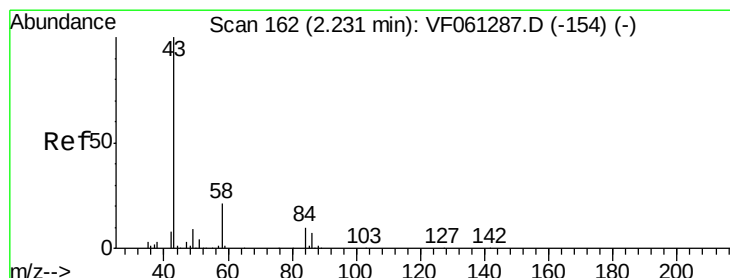
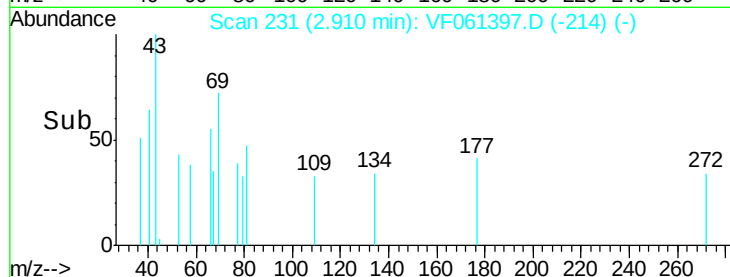
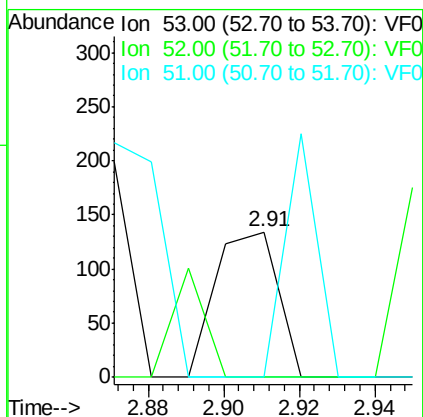
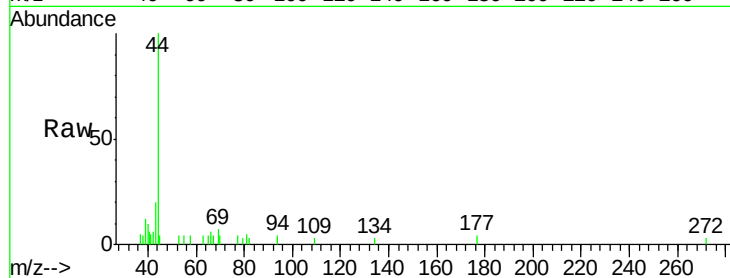
Delta R.T. -0.03 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	152
Ion	Ratio	Lower	Upper
53	100		
52	0.0	74.6	111.8#
51	0.0	37.8	56.6#



#16

Acetone

Concen: 90.751 ug/l

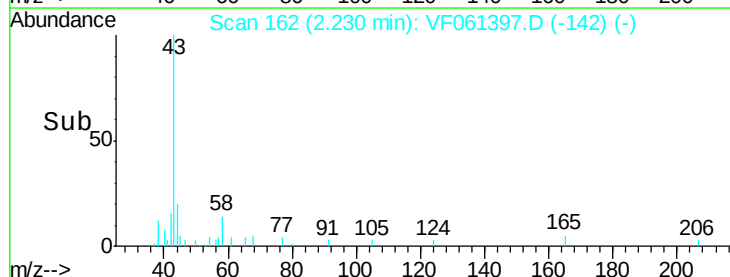
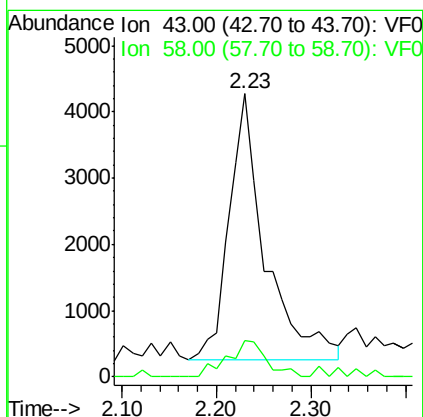
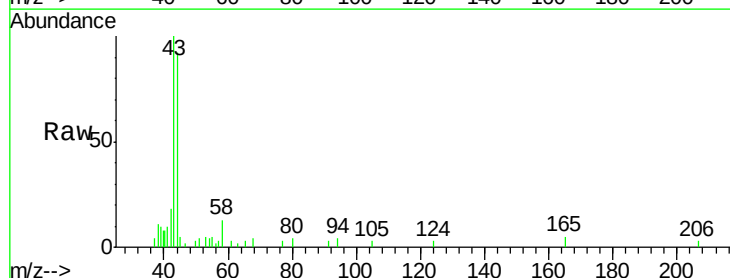
RT: 2.23 min Scan# 162

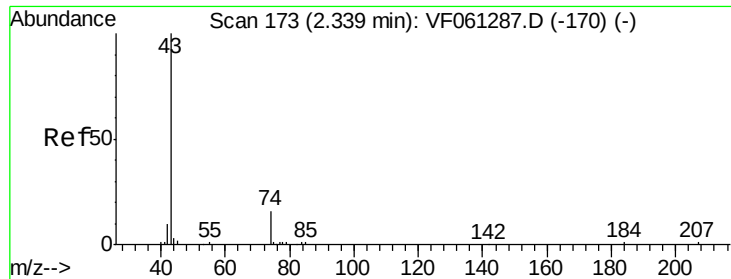
Delta R.T. -0.00 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

Tgt Ion:	43	Resp:	10672
Ion	Ratio	Lower	Upper
43	100		
58	13.1	16.6	25.0#

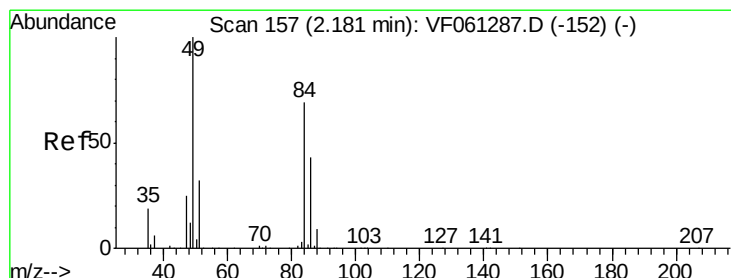
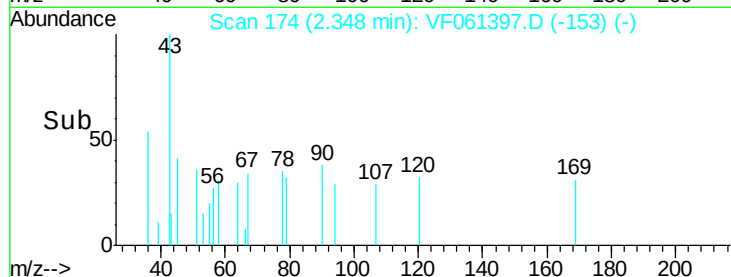
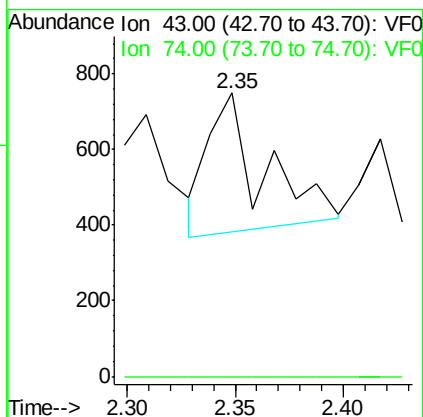
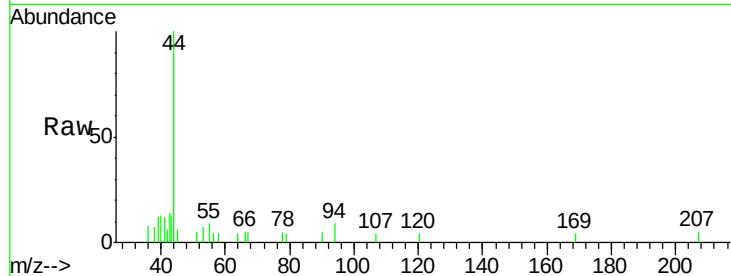




#18
Methyl Acetate
Concen: 2.796 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061397.D
Acq: 14 Jan 2019 18:59

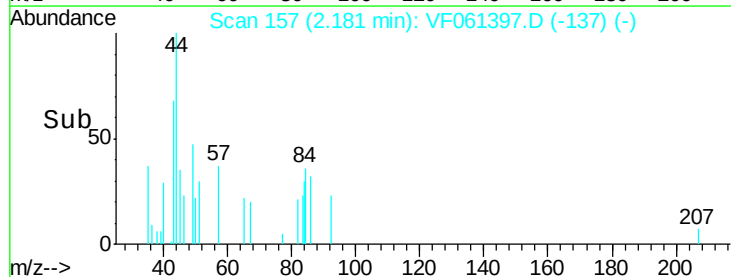
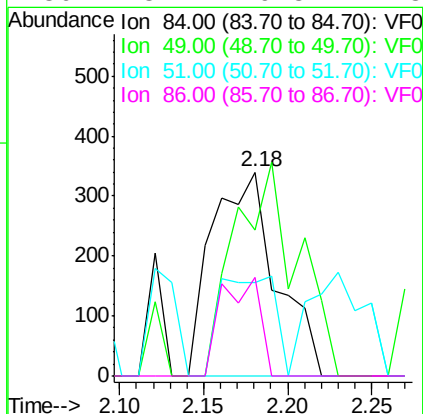
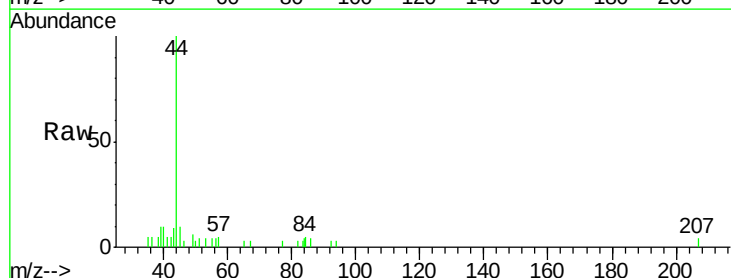
Instrument :
MSVOA_F
ClientSampleId :

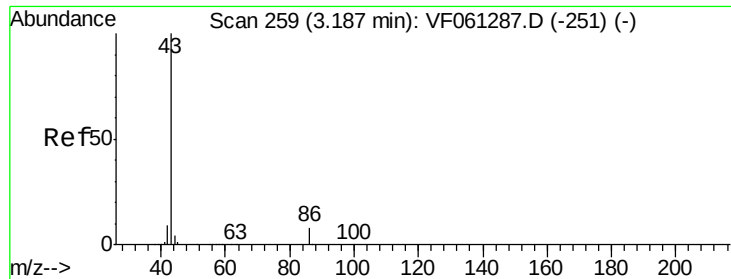
Tot Ion: 43 Resp: 647
Ion Ratio Lower Upper
43 100
74 0.0 11.6 17.4#



#20
Methylene Chloride
Concen: 1.819 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF061397.D
Acq: 14 Jan 2019 18:59

Tgt Ion: 84 Resp: 905
Ion Ratio Lower Upper
84 100
49 71.8 116.6 175.0#
51 45.9 37.7 56.5
86 48.2 49.8 74.8#





#23

Vinyl Acetate

Concen: 1.852 ug/l

RT: 3.16 min Scan# 256

Delta R.T. -0.03 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

Instrument :

MSVOA_F

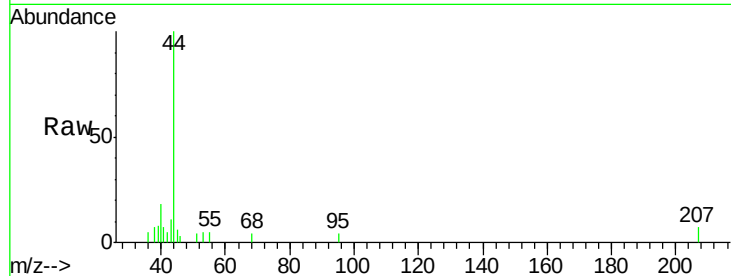
ClientSampleId :

Tot Ion: 43 Resp: 914

Ion Ratio Lower Upper

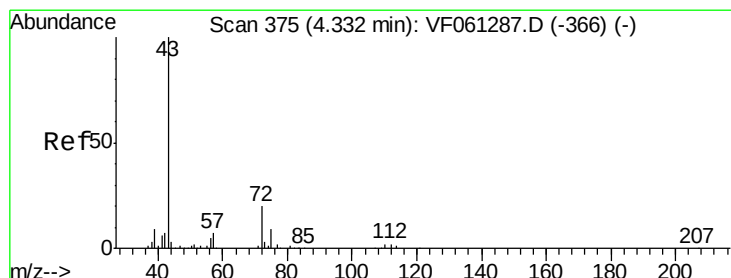
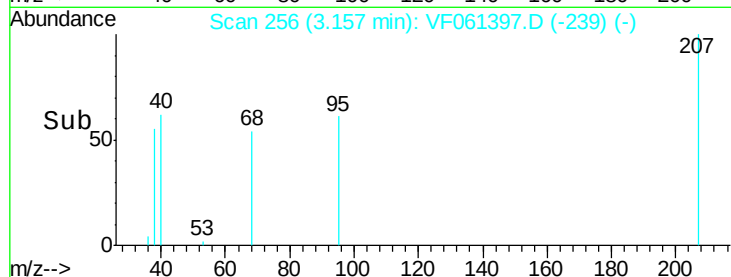
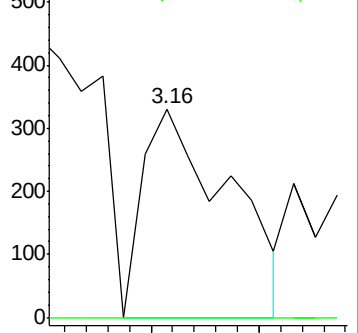
43 100

86 0.0 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 19.443 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061397.D

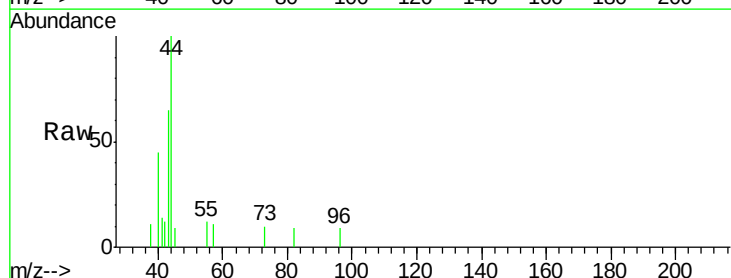
Acq: 14 Jan 2019 18:59

Tgt Ion: 43 Resp: 3680

Ion Ratio Lower Upper

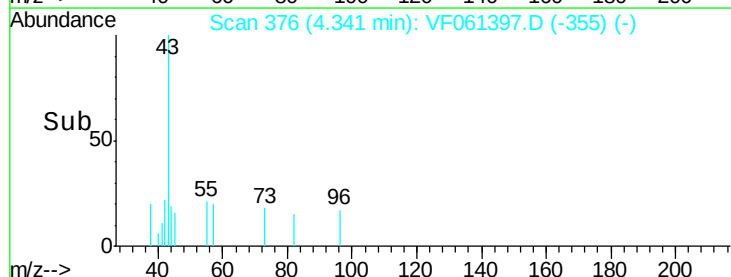
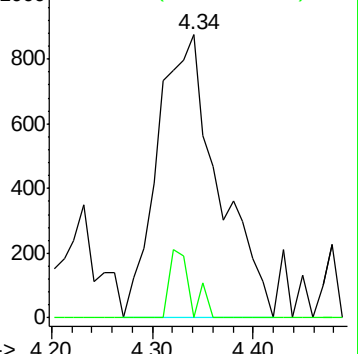
43 100

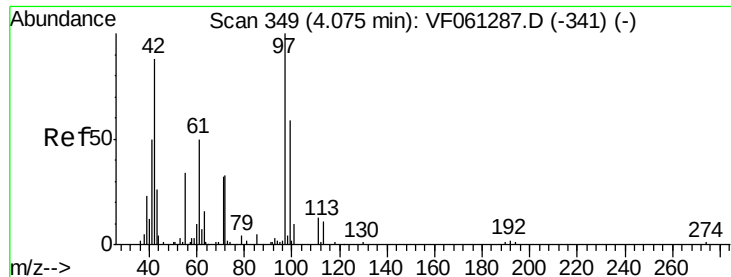
72 0.0 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.112 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.00 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

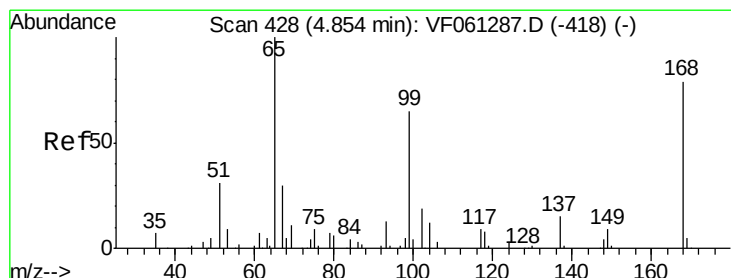
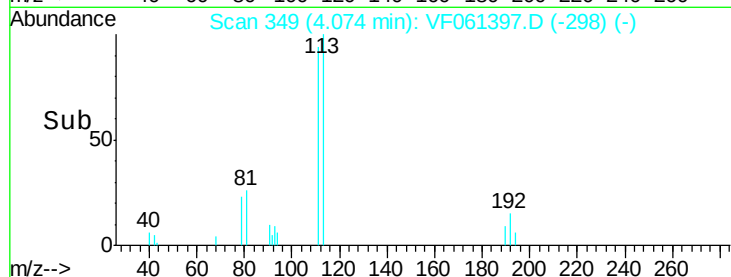
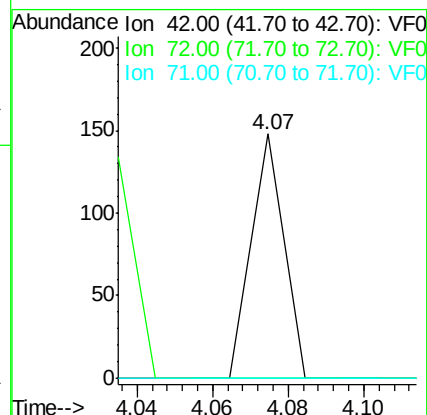
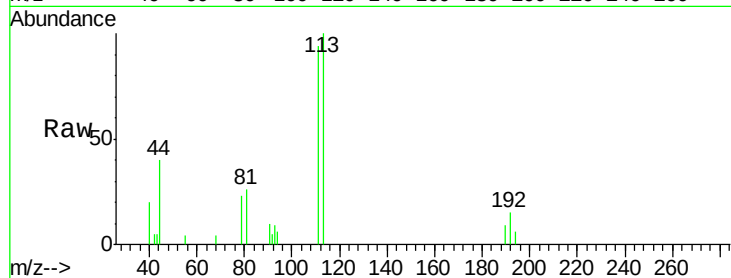
Tot Ion: 42 Resp: 88

Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

71 0.0 29.5 44.3#



#33

1,2-Dichloroethane-d4

Concen: 29.568 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061397.D

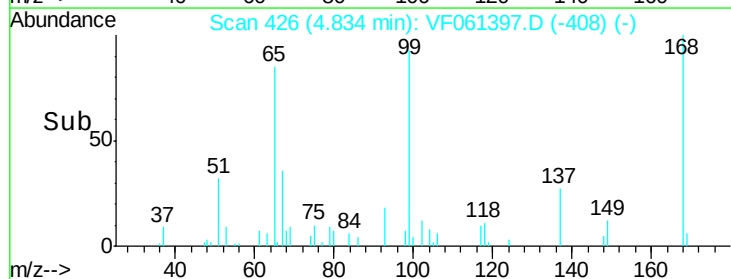
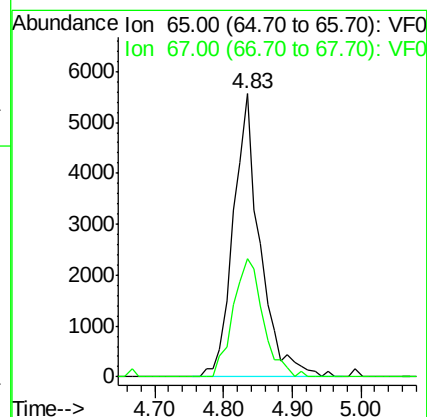
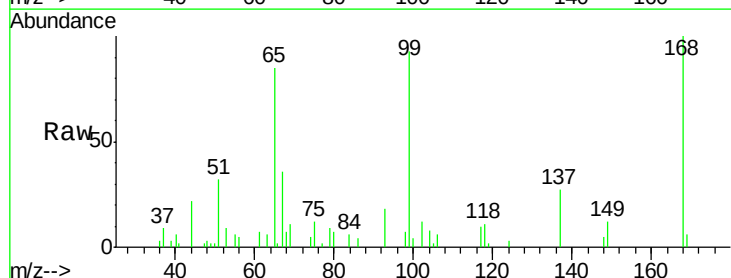
Acq: 14 Jan 2019 18:59

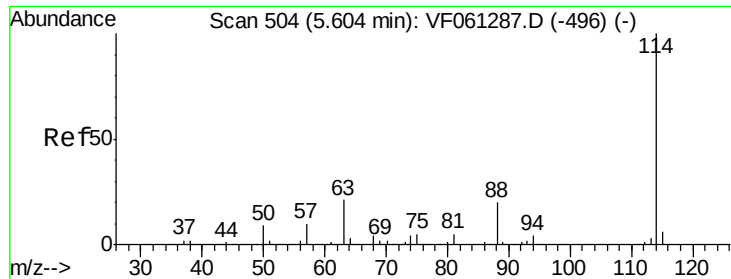
Tgt Ion: 65 Resp: 14947

Ion Ratio Lower Upper

65 100

67 42.0 0.0 98.2

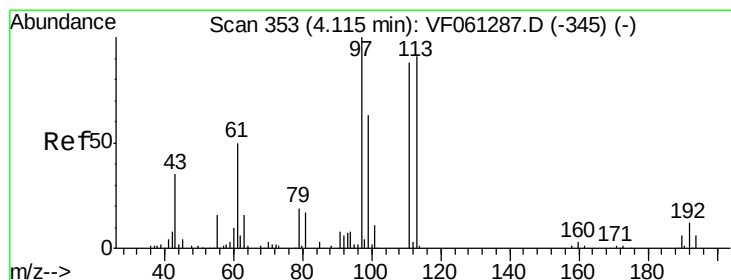
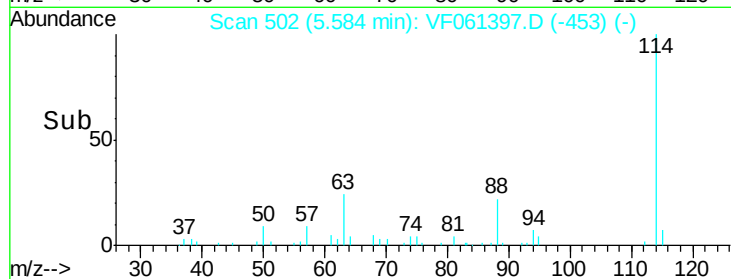
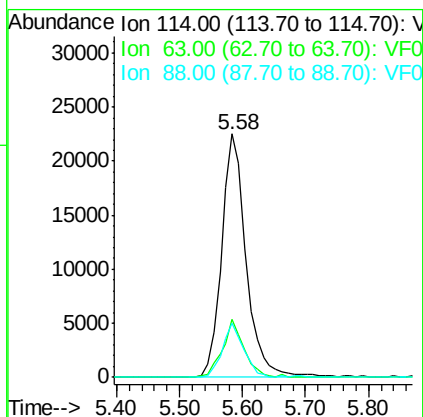
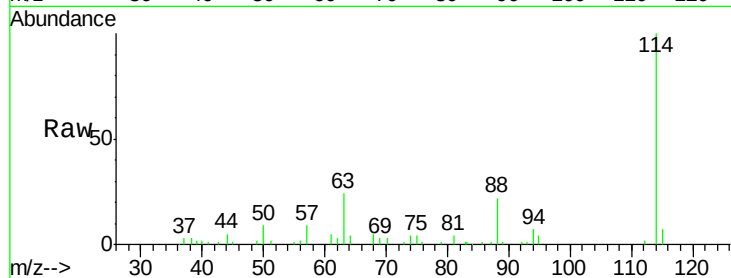




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.02 min
 Lab File: VF061397.D
 Acq: 14 Jan 2019 18:59

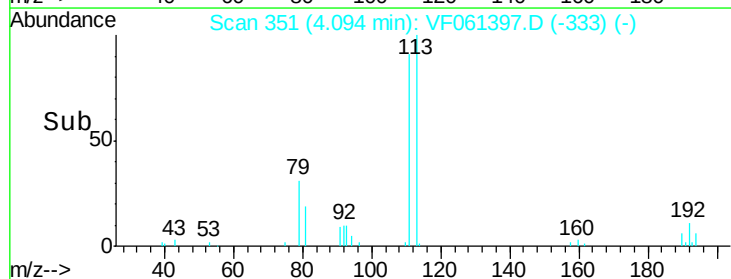
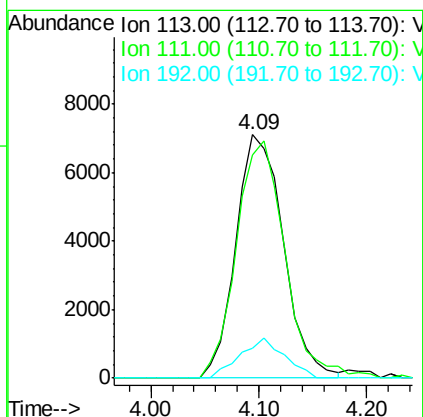
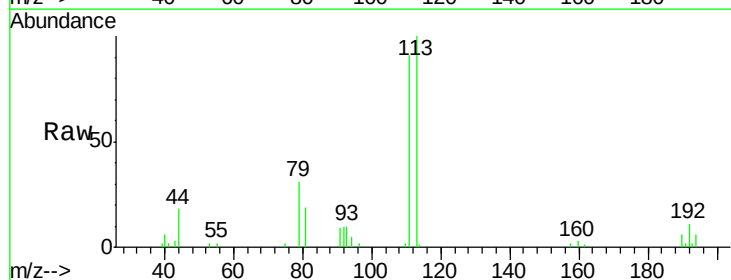
Instrument :
 MSVOA_F
 ClientSampleId :

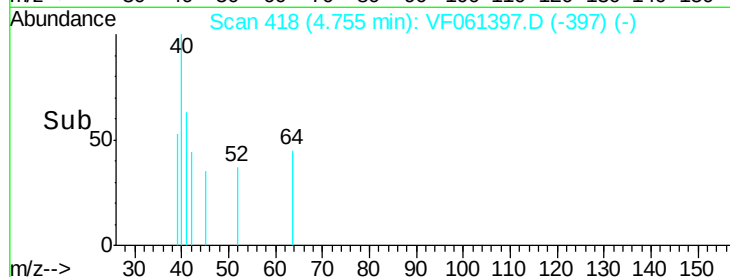
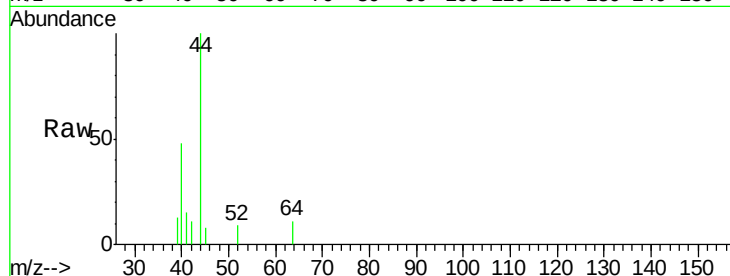
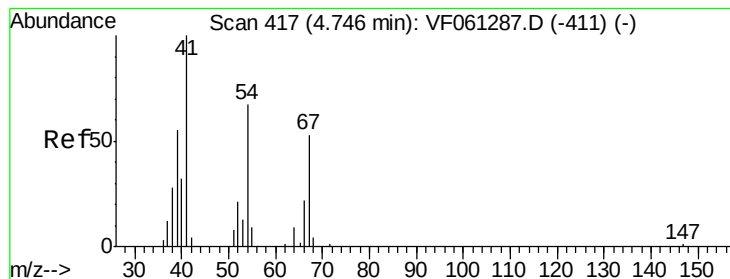
Tot Ion:114 Resp: 60707
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 42.8
 88 22.1 0.0 40.0



#35
 Dibromofluoromethane
 Concen: 47.166 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.02 min
 Lab File: VF061397.D
 Acq: 14 Jan 2019 18:59

Tgt Ion:113 Resp: 21909
 Ion Ratio Lower Upper
 113 100
 111 91.4 78.0 117.0
 192 12.4 10.6 16.0





#41

Methacrylonitrile

Concen: 2.677 ug/l

RT: 4.76 min Scan# 418

Delta R.T. 0.01 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 41 Resp: 386

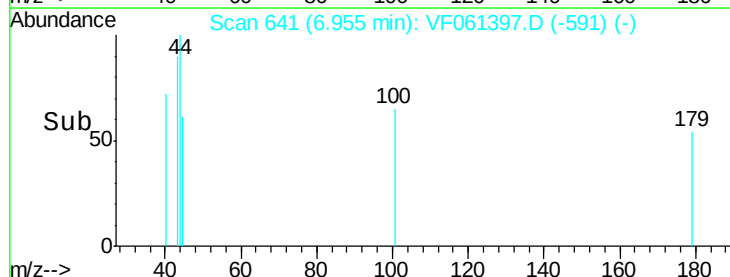
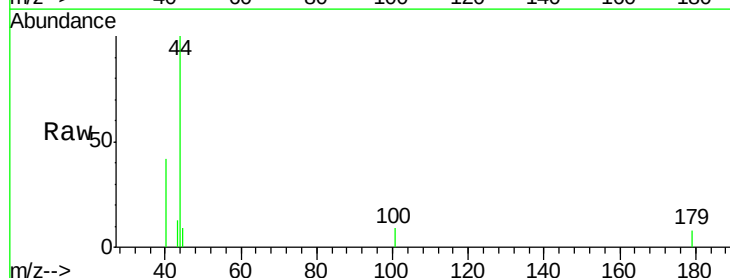
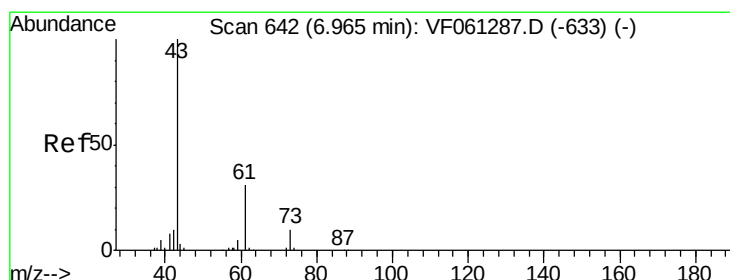
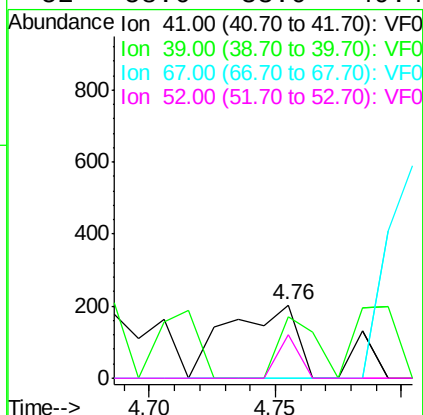
Ion Ratio Lower Upper

41 100

39 83.3 52.7 79.1#

67 0.0 41.4 62.2#

52 58.6 33.0 49.4#



#43

Isopropyl Acetate

Concen: 1.094 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.01 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

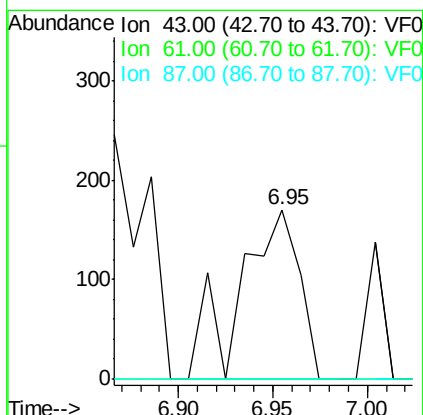
Tgt Ion: 43 Resp: 373

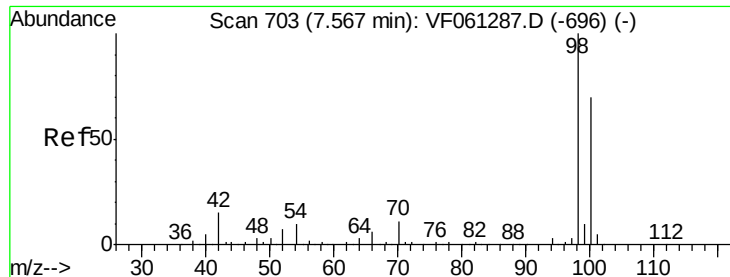
Ion Ratio Lower Upper

43 100

61 0.0 24.3 36.5#

87 0.0 0.2 0.4#

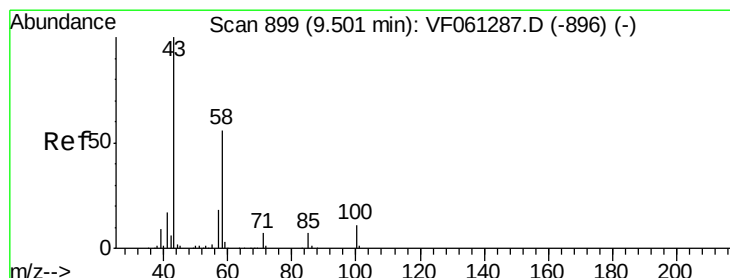
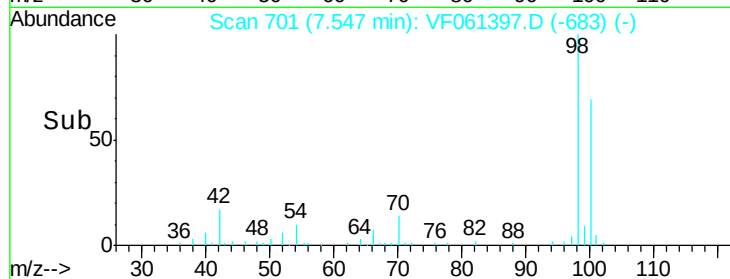
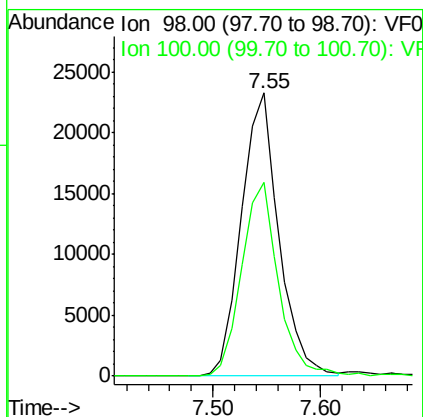
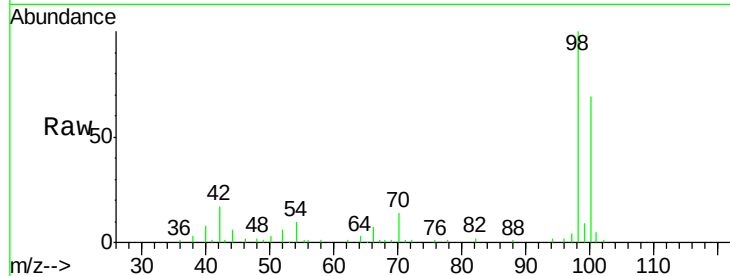




#50
Toluene-d8
Concen: 40.690 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061397.D
Acq: 14 Jan 2019 18:59

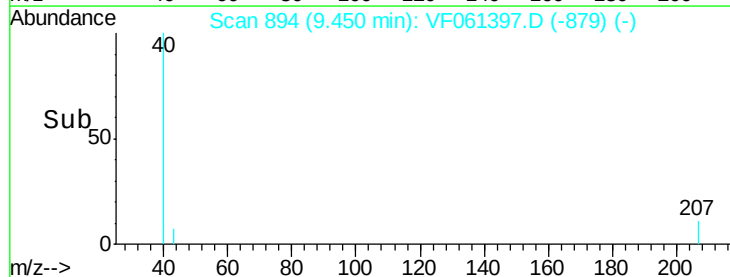
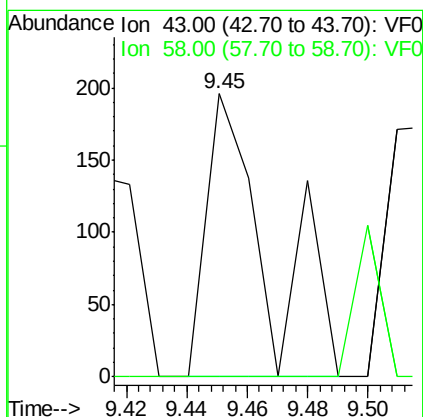
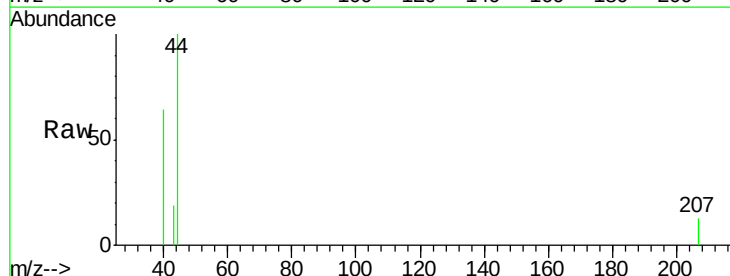
Instrument :
MSVOA_F
ClientSampled :

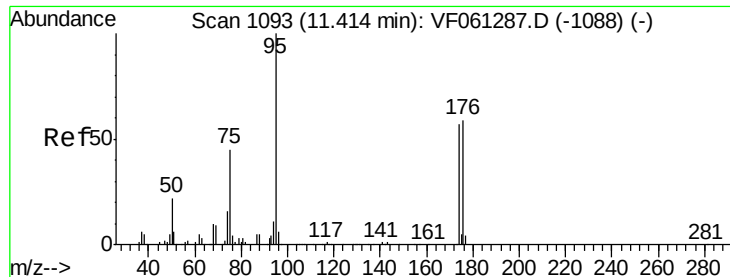
Tot Ion: 98 Resp: 55932
Ion Ratio Lower Upper
98 100
100 68.6 55.6 83.4



#59
2-Hexanone
Concen: 1.525 ug/l
RT: 9.45 min Scan# 894
Delta R.T. -0.05 min
Lab File: VF061397.D
Acq: 14 Jan 2019 18:59

Tgt Ion: 43 Resp: 278
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 15.546 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

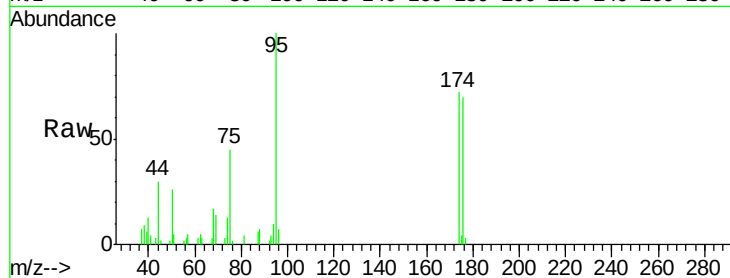
Tot Ion: 95 Resp: 9331

Ion Ratio Lower Upper

95 100

174 71.6 0.0 114.2

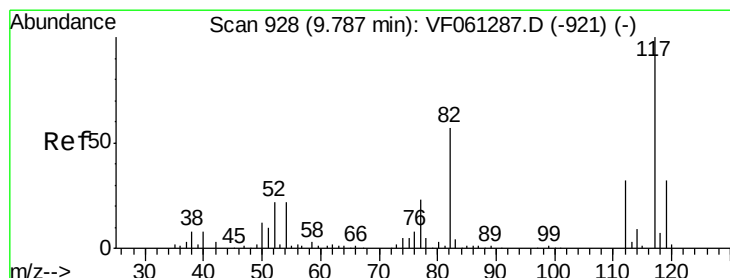
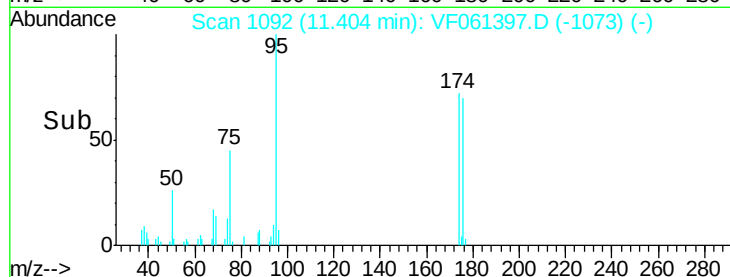
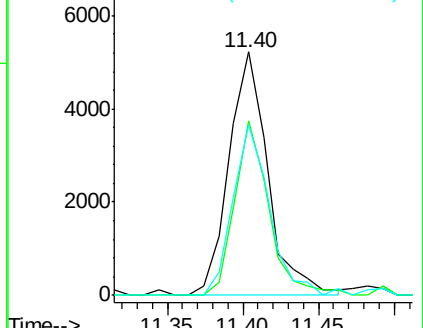
176 69.9 0.0 117.8



Abundance Ion 95.00 (94.70 to 95.70): VF061287.D (-1088) (-)

Ion 174.00 (173.70 to 174.70): VF061287.D (-1088) (-)

Ion 176.00 (175.70 to 176.70): VF061287.D (-1088) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. -0.02 min

Lab File: VF061397.D

Acq: 14 Jan 2019 18:59

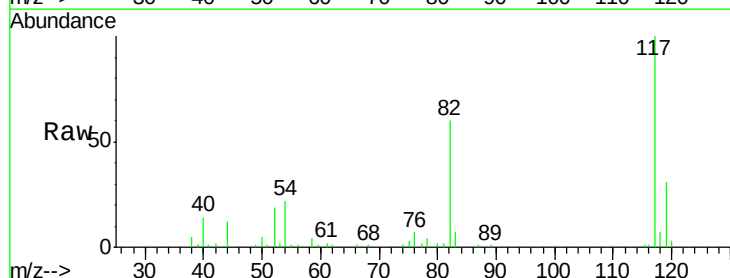
Tgt Ion: 117 Resp: 30029

Ion Ratio Lower Upper

117 100

82 59.8 45.3 67.9

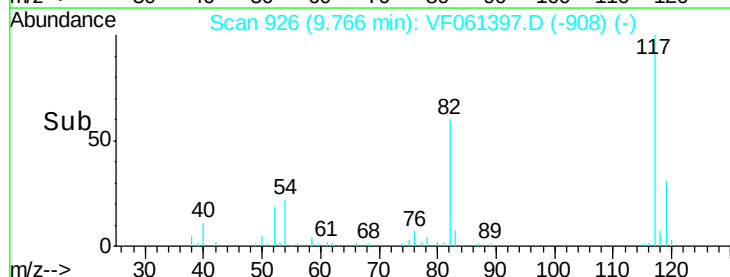
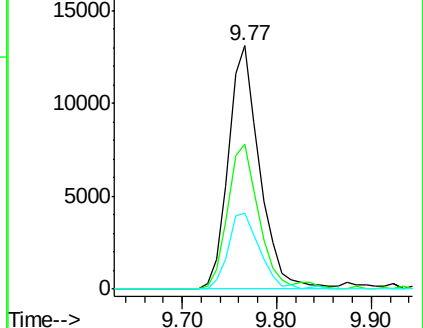
119 31.4 25.4 38.0

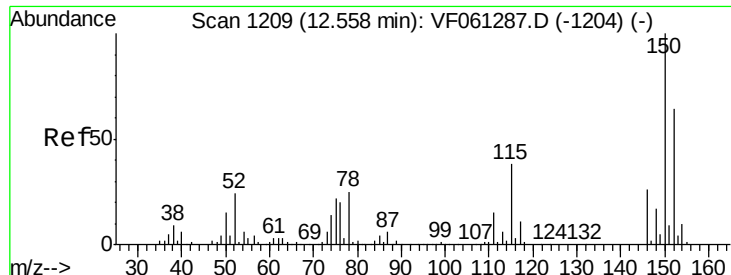


Abundance Ion 117.00 (116.70 to 117.70): VF061287.D (-921) (-)

Ion 82.00 (81.70 to 82.70): VF061287.D (-921) (-)

Ion 119.00 (118.70 to 119.70): VF061287.D (-921) (-)



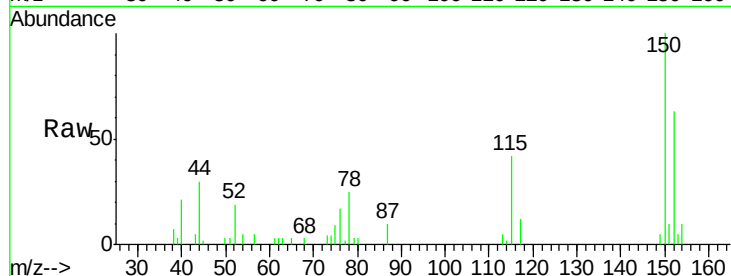


#72

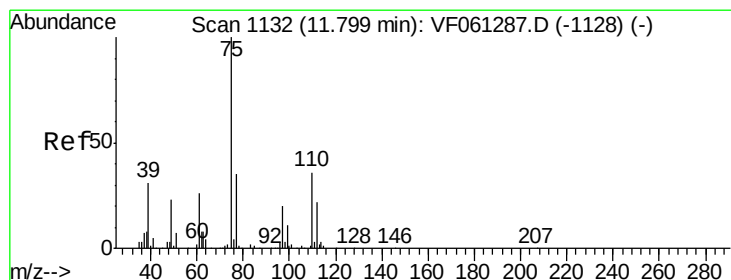
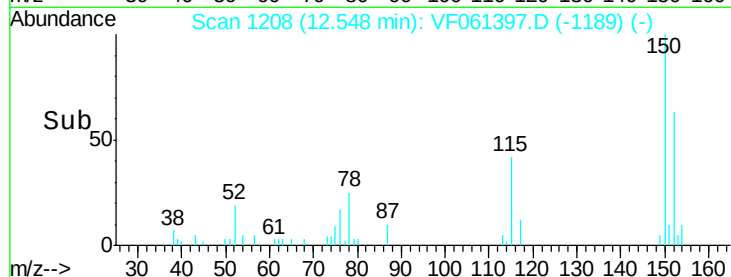
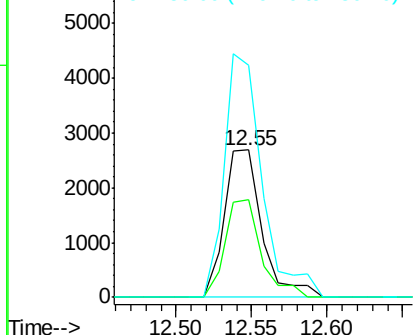
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061397.D
Acq: 14 Jan 2019 18:59

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 4656
Ion Ratio Lower Upper
152 100
115 66.3 29.6 88.9
150 157.6 0.0 315.4



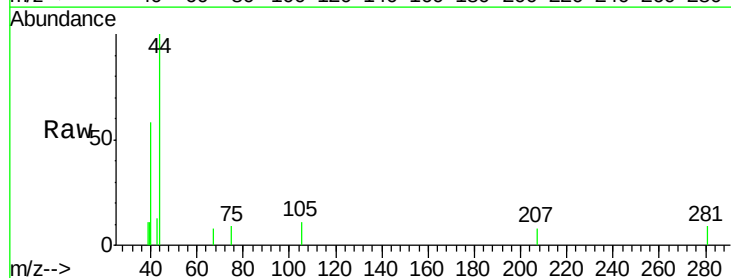
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



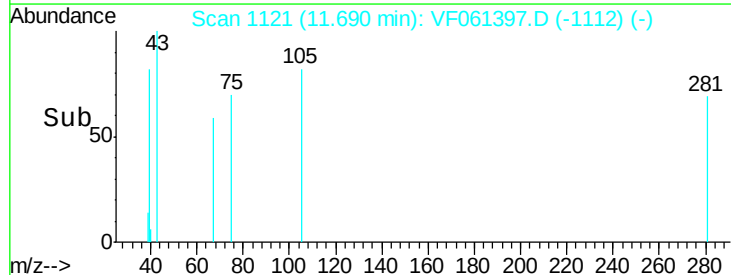
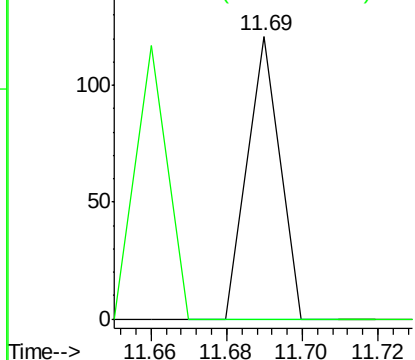
#76

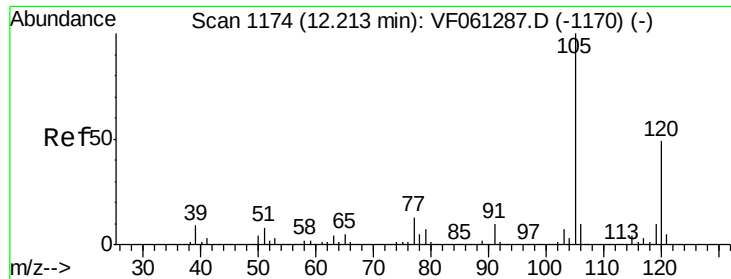
1,2,3-Trichloropropane
Concen: 1.511 ug/l
RT: 11.69 min Scan# 1121
Delta R.T. -0.11 min
Lab File: VF061397.D
Acq: 14 Jan 2019 18:59

Tgt Ion: 75 Resp: 72
Ion Ratio Lower Upper
75 100
77 0.0 17.5 52.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0

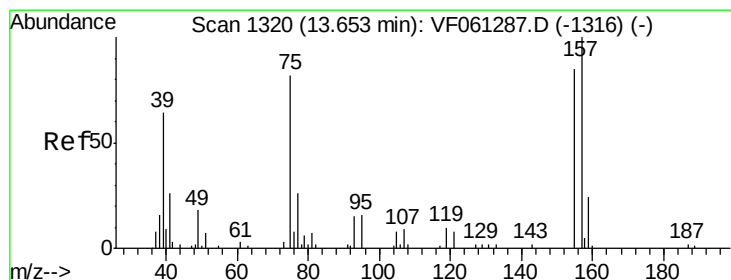
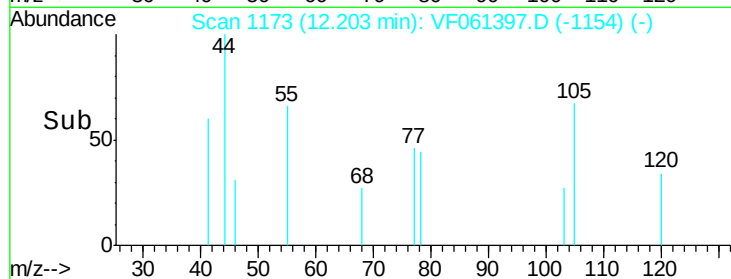
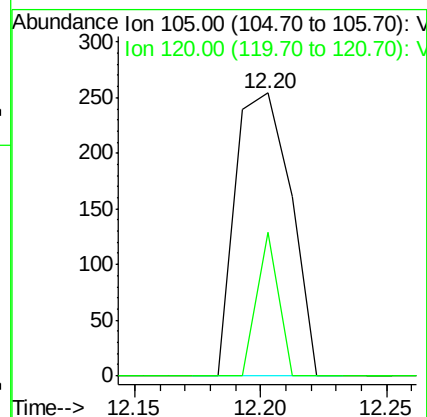
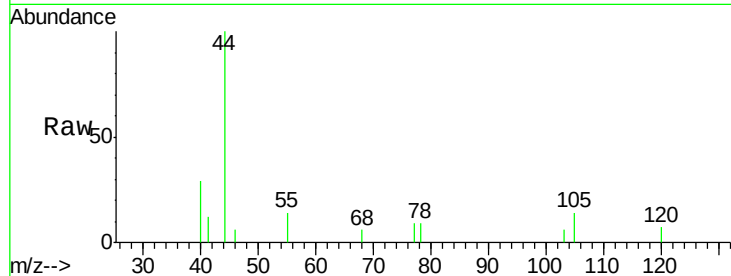




#84
 1,2,4-Trimethylbenzene
 Concen: 1.199 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: VF061397.D
 Acq: 14 Jan 2019 18:59

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:105 Resp: 388
 Ion Ratio Lower Upper
 105 100
 120 50.8 24.7 74.1



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 6.104 ug/l
 RT: 13.57 min Scan# 1312
 Delta R.T. -0.08 min
 Lab File: VF061397.D
 Acq: 14 Jan 2019 18:59

Tgt Ion: 75 Resp: 67
 Ion Ratio Lower Upper
 75 100
 155 0.0 51.3 154.0#
 157 0.0 60.7 182.0#

