

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011419\
 Data File : VF061392.D
 Acq On : 14 Jan 2019 16:35
 Operator : VA/AP
 Sample : K1128-03
 Misc : 4.79g/5mL/MSVOA-F/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jan 14 21:41:48 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	4.87	168	9345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	12612	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	9255	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	2656	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	2147	20.64	ug/l	-0.02
Spiked Amount			Recovery	=	41.28%	
35) Dibromofluoromethane	4.10	113	3569	36.98	ug/l	-0.01
Spiked Amount			Recovery	=	73.96%	
50) Toluene-d8	7.55	98	12480	43.70	ug/l	-0.02
Spiked Amount			Recovery	=	87.40%	
62) 4-Bromofluorobenzene	11.40	95	3322	26.64	ug/l	-0.01
Spiked Amount			Recovery	=	53.28%	

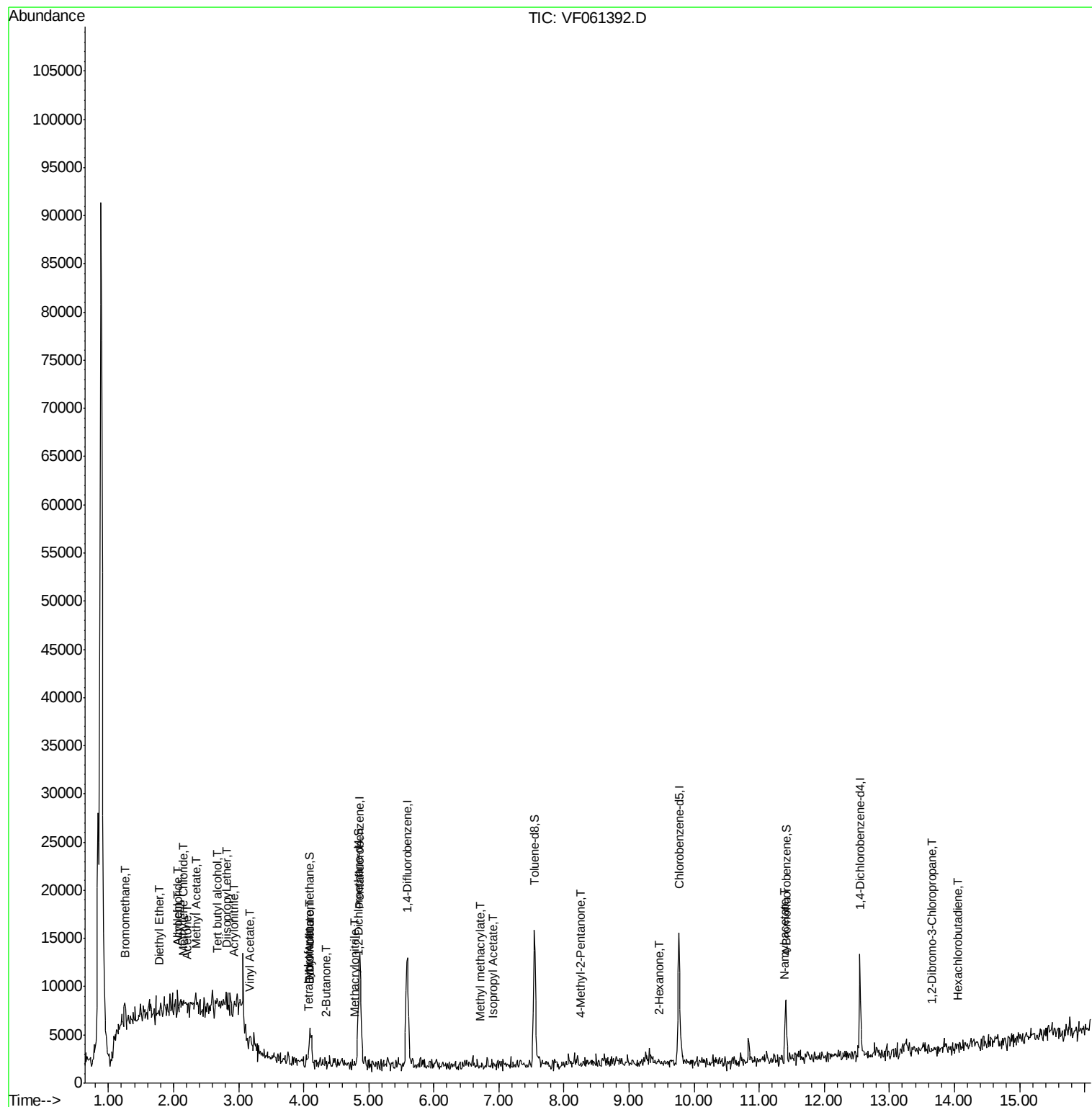
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.25	94	585	7.540	ug/l #	6
8) Diethyl Ether	1.78	74	72	2.108	ug/l	98
11) Tert butyl alcohol	2.67	59	82	19.690	ug/l #	1
13) Acrolein	2.07	56	215	28.717	ug/l	86
14) Allyl chloride	2.06	41	308	1.716	ug/l #	85
15) Acrylonitrile	2.92	53	232	15.715	ug/l #	39
16) Acetone	2.21	43	902	37.278	ug/l #	55
18) Methyl Acetate	2.34	43	794	16.679	ug/l #	65
20) Methylene Chloride	2.16	84	224	2.188	ug/l #	1
22) Diisopropyl ether	2.80	45	391	1.126	ug/l #	1
23) Vinyl Acetate	3.19	43	459	4.520	ug/l #	77
25) 2-Butanone	4.35	43	60	1.541	ug/l #	56
29) Tetrahydrofuran	4.06	42	63	3.869	ug/l #	36
37) Ethyl Acetate	4.09	43	166	3.095	ug/l #	1
41) Methacrylonitrile	4.78	41	63	2.103	ug/l #	24
43) Isopropyl Acetate	6.92	43	316	4.463	ug/l #	45
48) Methyl methacrylate	6.70	41	97	2.110	ug/l #	21
51) 4-Methyl-2-Pentanone	8.27	43	96	1.796	ug/l #	38
59) 2-Hexanone	9.46	43	439	11.594	ug/l #	27
74) N-amyl acetate	11.38	43	112	2.108	ug/l #	48
92) 1,2-Dibromo-3-Chloropropan	13.65	75	76	12.138	ug/l #	1
94) Hexachlorobutadiene	14.04	225	72	1.875	ug/l #	19

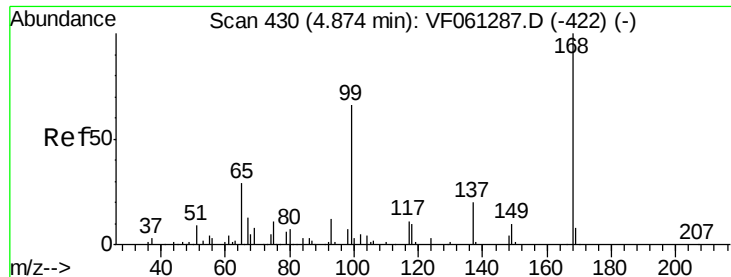
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

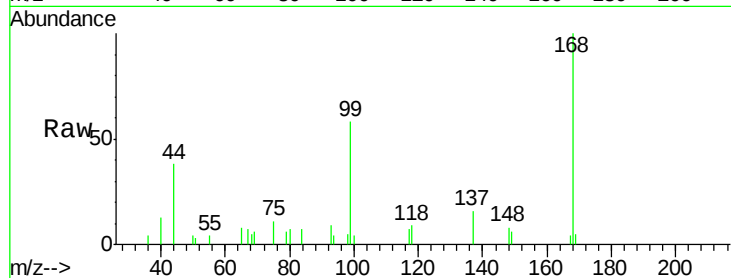
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 9345

Ion Ratio Lower Upper

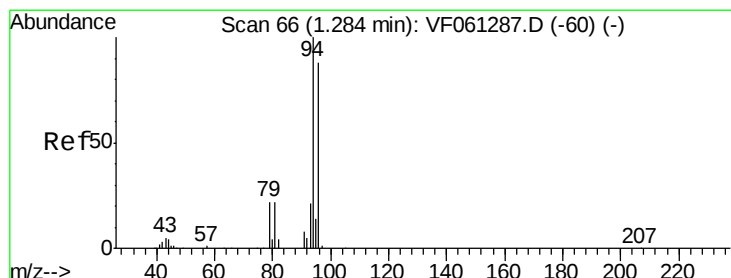
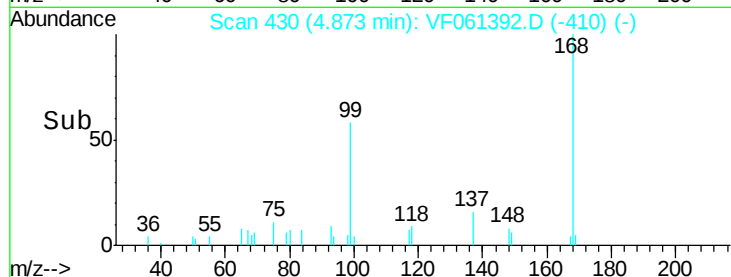
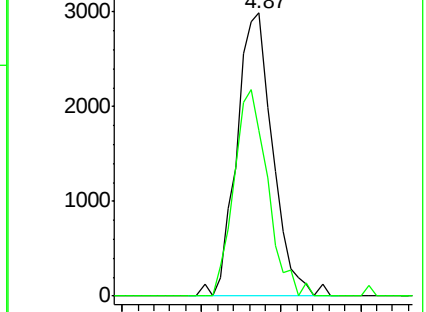
168 100

99 58.3 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#5

Bromomethane

Concen: 7.540 ug/l

RT: 1.25 min Scan# 63

Delta R.T. -0.03 min

Lab File: VF061392.D

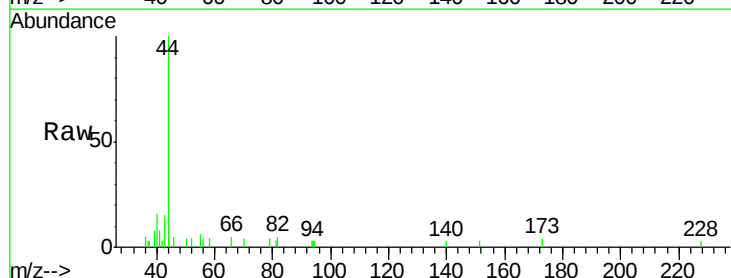
Acq: 14 Jan 2019 16:35

Tgt Ion: 94 Resp: 585

Ion Ratio Lower Upper

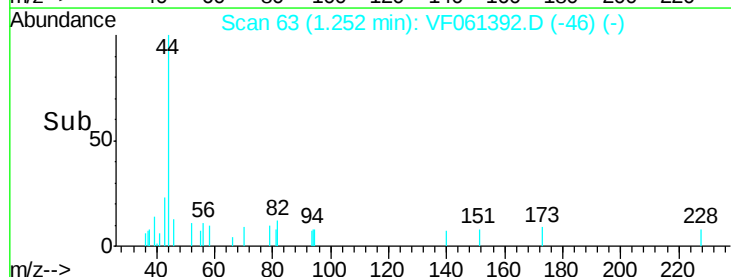
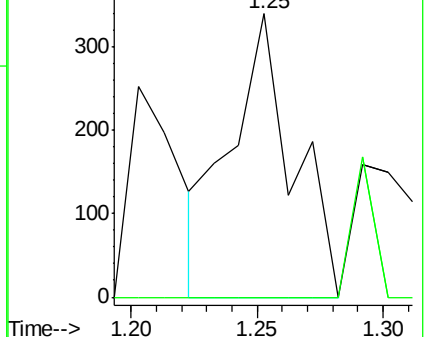
94 100

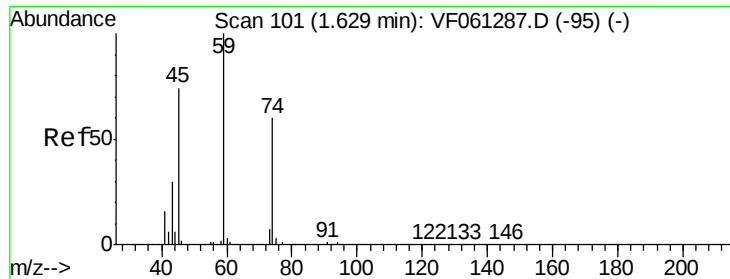
96 0.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#8

Diethyl Ether

Concen: 2.108 ug/l

RT: 1.78 min Scan# 116

Delta R.T. 0.15 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

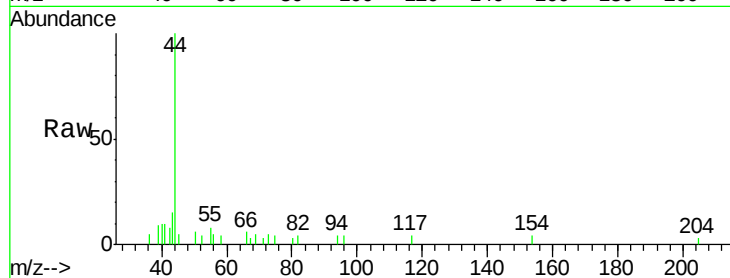
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 72

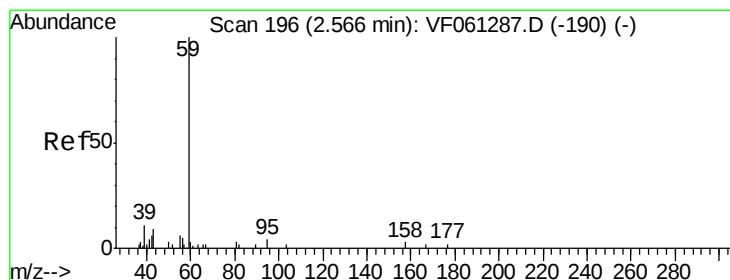
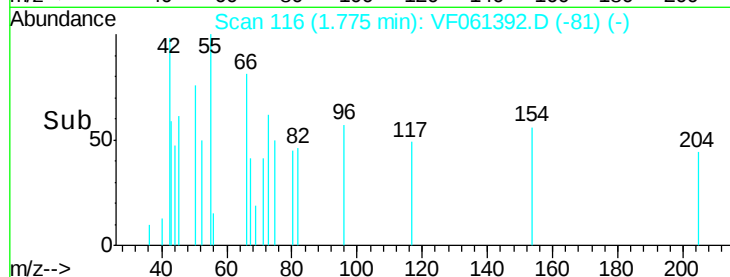
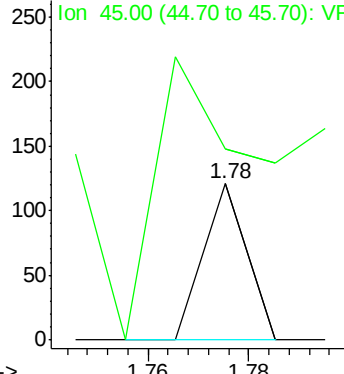
Ion Ratio Lower Upper

74 100

45 122.3 62.1 186.3



Abundance Ion 74.00 (73.70 to 74.70): VF0
Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 19.690 ug/l

RT: 2.67 min Scan# 207

Delta R.T. 0.11 min

Lab File: VF061392.D

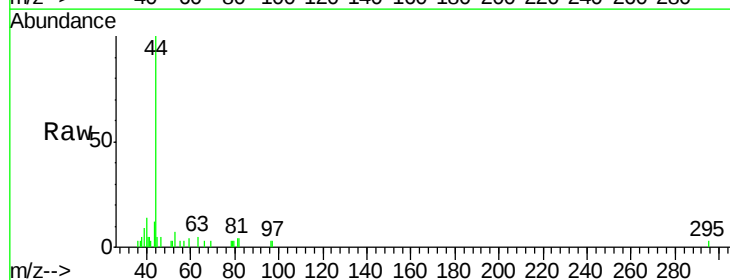
Acq: 14 Jan 2019 16:35

Tgt Ion: 59 Resp: 82

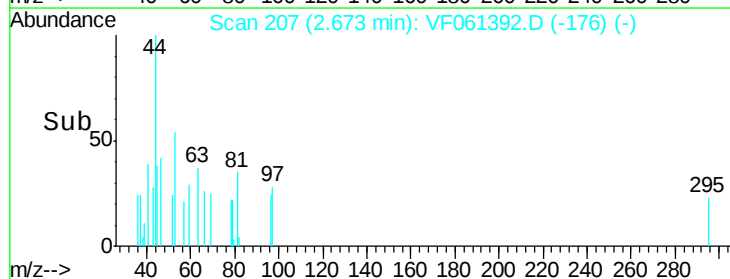
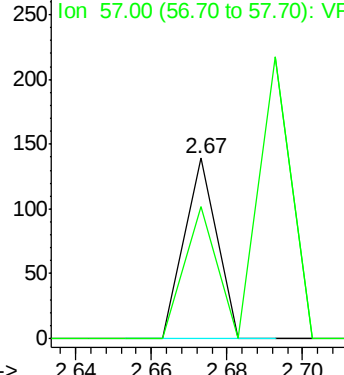
Ion Ratio Lower Upper

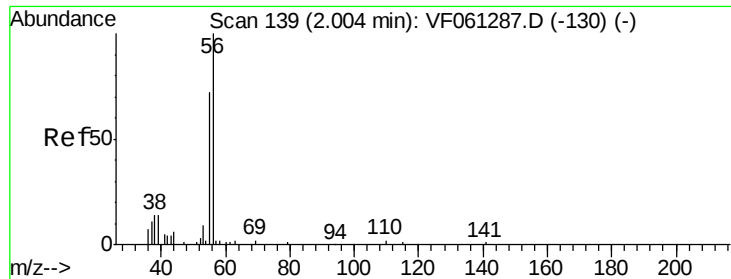
59 100

57 73.4 15.1 22.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0
Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 28.717 ug/l

RT: 2.07 min Scan# 146

Delta R.T. 0.07 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

Instrument :

MSVOA_F

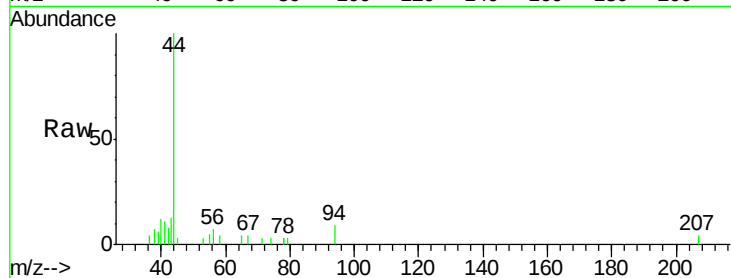
ClientSampled :

Tot Ion: 56 Resp: 215

Ion Ratio Lower Upper

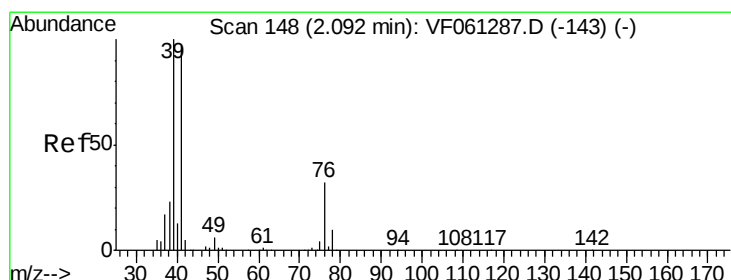
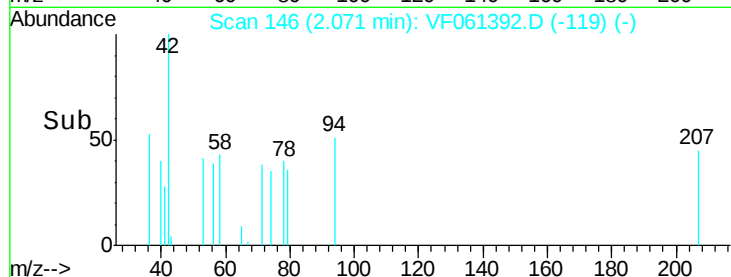
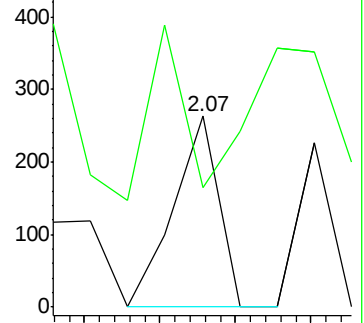
56 100

55 62.7 59.4 89.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 1.716 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.03 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

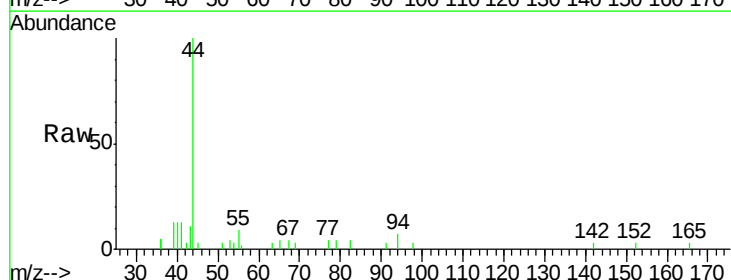
Tgt Ion: 41 Resp: 308

Ion Ratio Lower Upper

41 100

39 103.8 82.6 123.8

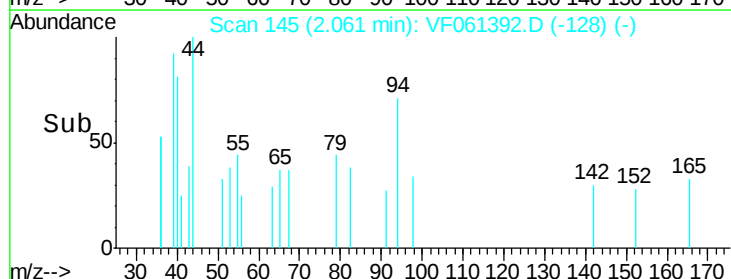
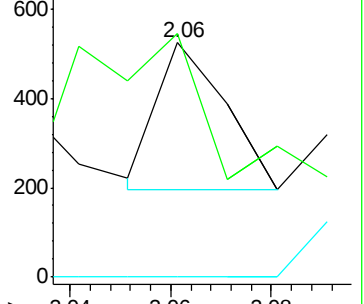
76 0.0 26.9 40.3#

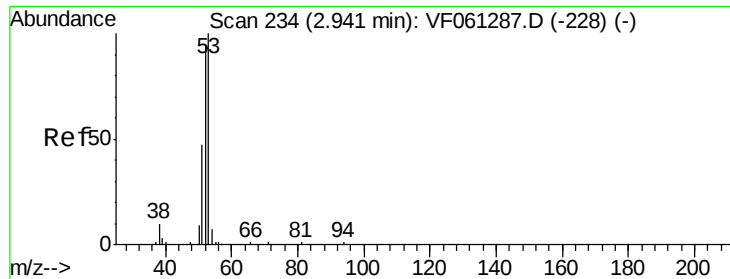


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 15.715 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

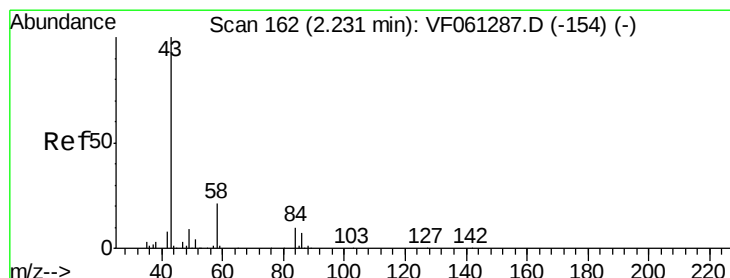
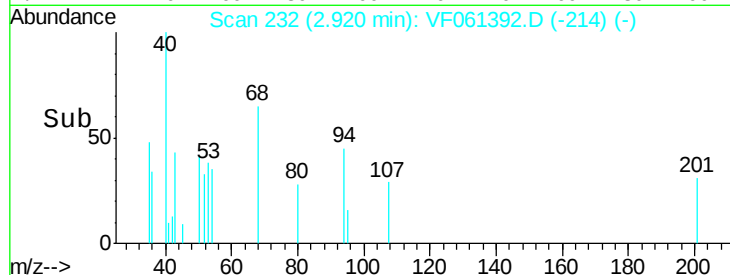
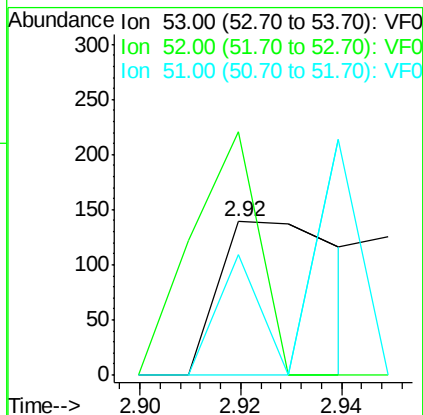
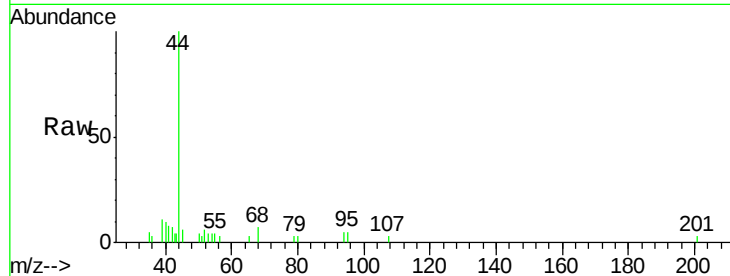
Tot Ion: 53 Resp: 232

Ion Ratio Lower Upper

53 100

52 159.0 74.6 111.8#

51 78.4 37.8 56.6#



#16

Acetone

Concen: 37.278 ug/l

RT: 2.21 min Scan# 160

Delta R.T. -0.02 min

Lab File: VF061392.D

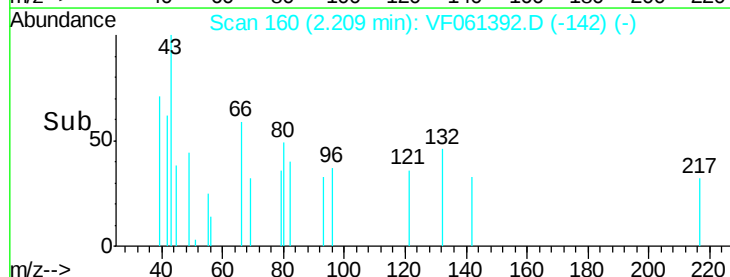
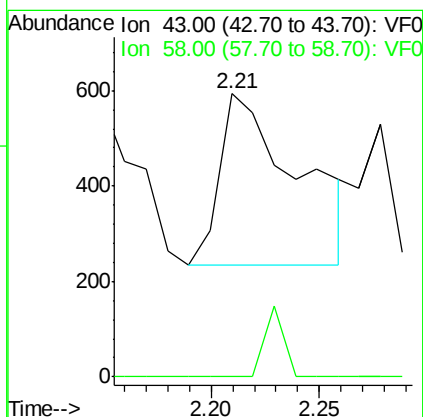
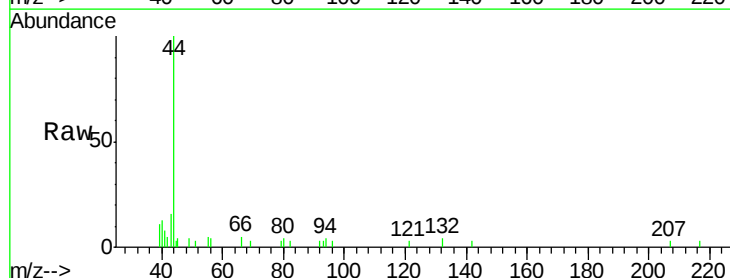
Acq: 14 Jan 2019 16:35

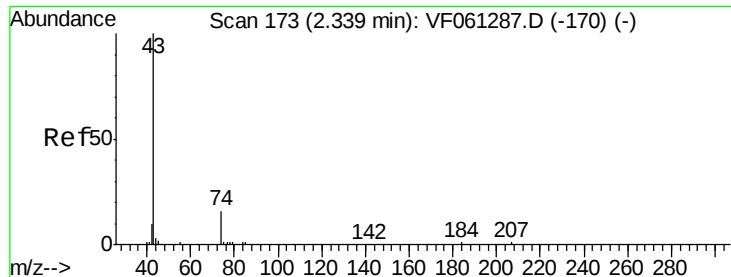
Tgt Ion: 43 Resp: 902

Ion Ratio Lower Upper

43 100

58 0.0 16.6 25.0#

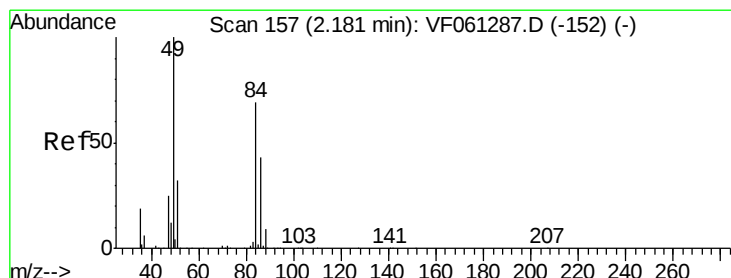
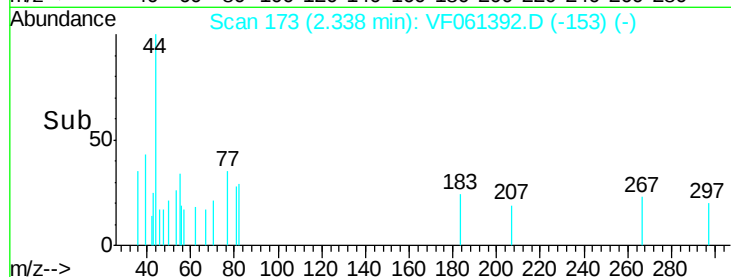
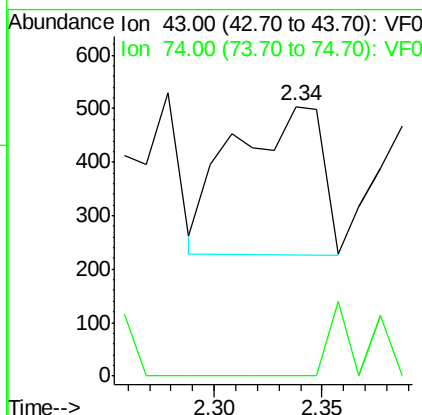
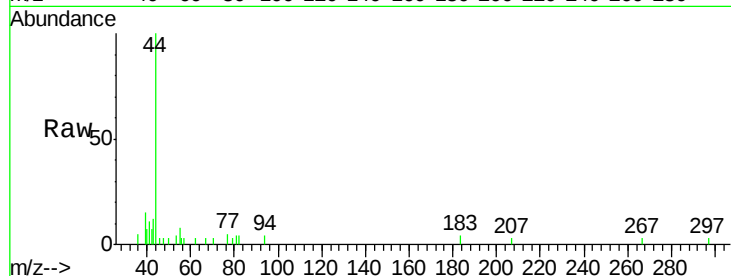




#18
Methyl Acetate
Concen: 16.679 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

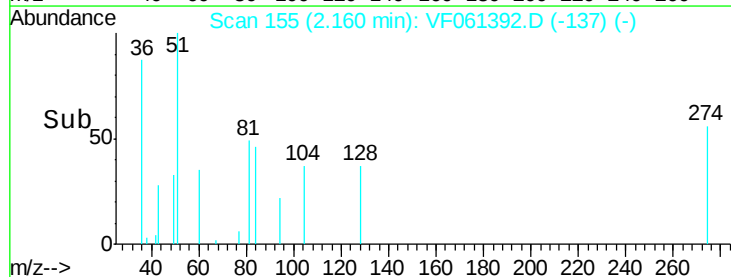
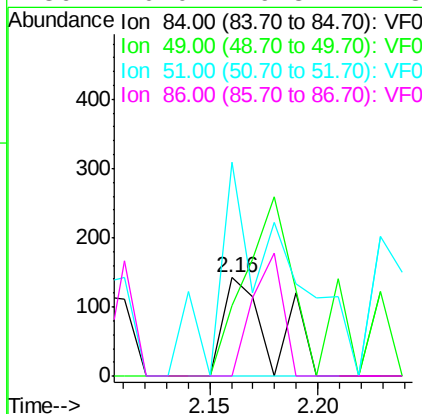
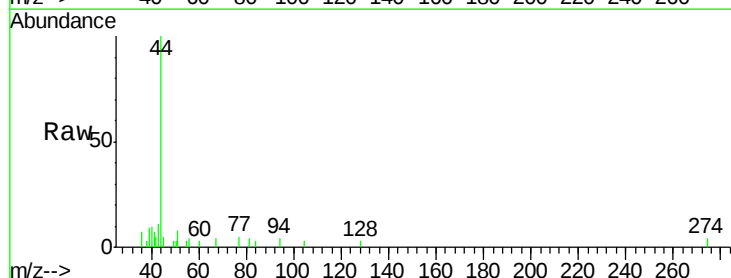
Instrument :
MSVOA_F
ClientSampled :

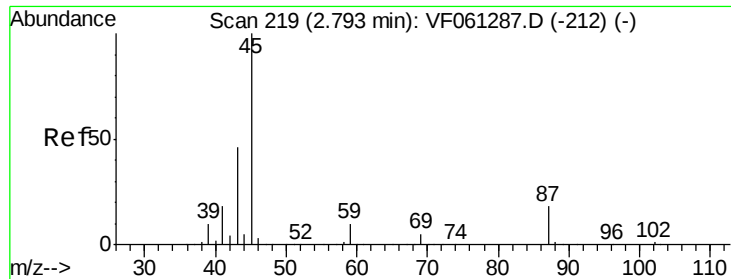
Tot Ion: 43 Resp: 794
Ion Ratio Lower Upper
43 100
74 0.0 11.6 17.4#



#20
Methylene Chloride
Concen: 2.188 ug/l
RT: 2.16 min Scan# 155
Delta R.T. -0.02 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

Tgt Ion: 84 Resp: 224
Ion Ratio Lower Upper
84 100
49 71.8 116.6 175.0#
51 217.6 37.7 56.5#
86 0.0 49.8 74.8#

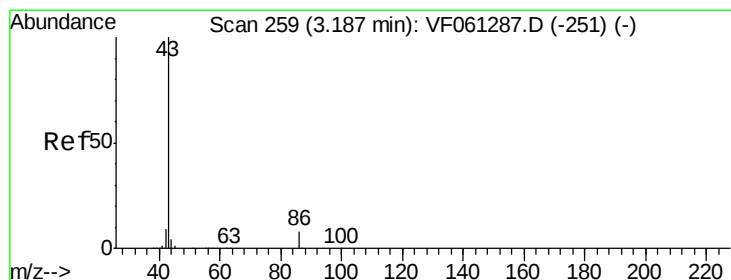
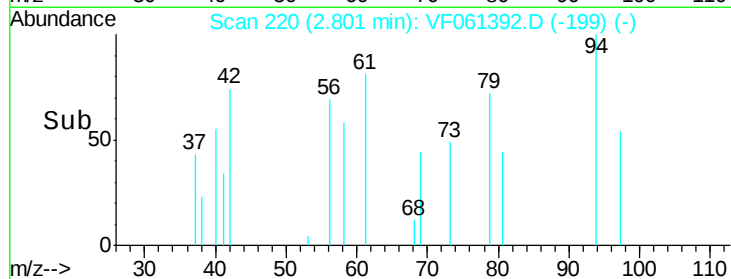
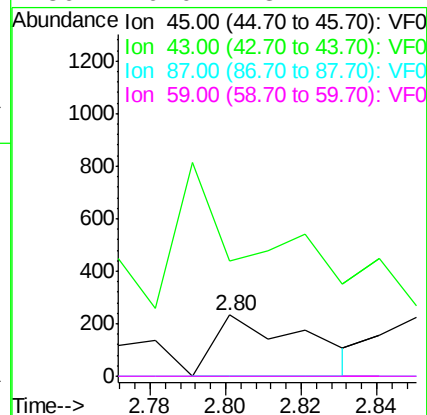
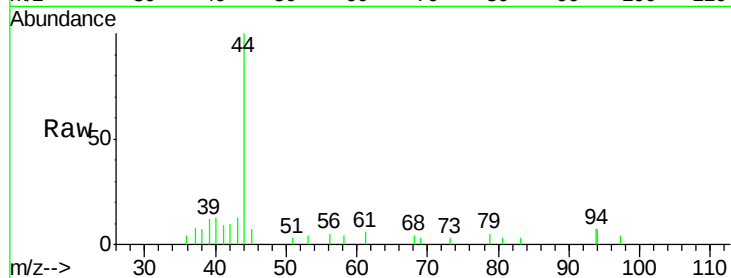




#22
Diisopropyl ether
Concen: 1.126 ug/l
RT: 2.80 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

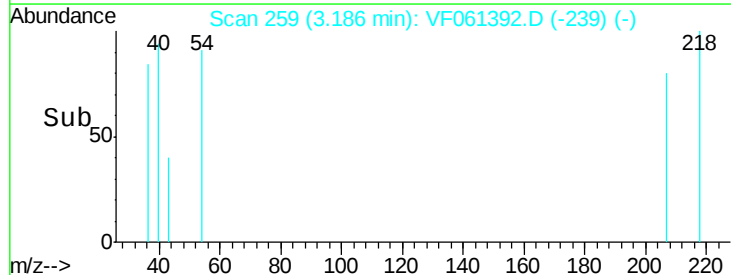
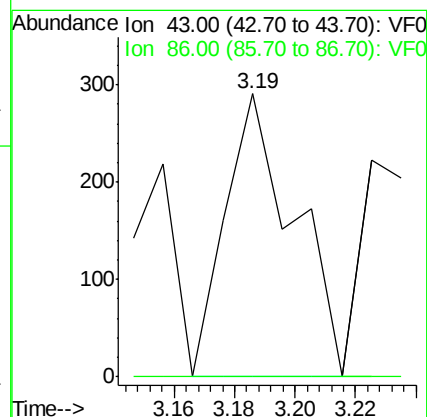
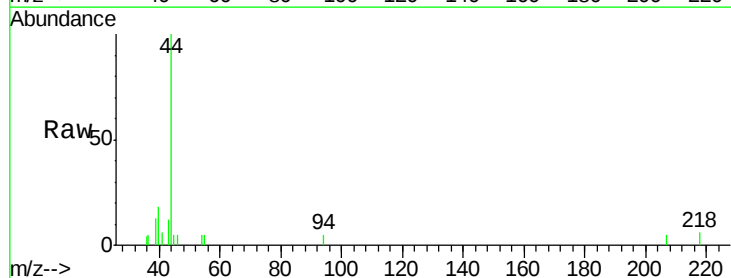
Instrument :
MSVOA_F
ClientSampleId :

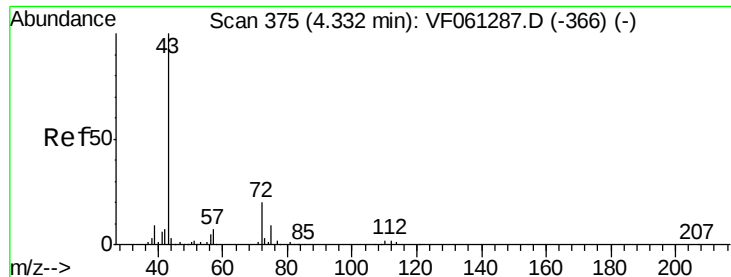
Tot Ion: 45 Resp: 391
Ion Ratio Lower Upper
45 100
43 187.6 37.4 56.2#
87 0.0 14.2 21.2#
59 0.0 8.2 12.2#



#23
Vinyl Acetate
Concen: 4.520 ug/l
RT: 3.19 min Scan# 259
Delta R.T. -0.00 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

Tgt Ion: 43 Resp: 459
Ion Ratio Lower Upper
43 100
86 0.0 6.5 9.7#





#25

2-Butanone

Concen: 1.541 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

Instrument :

MSVOA_F

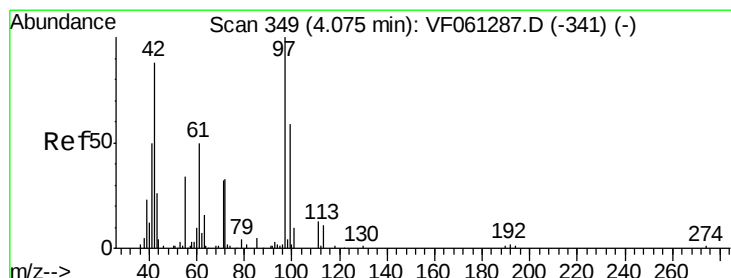
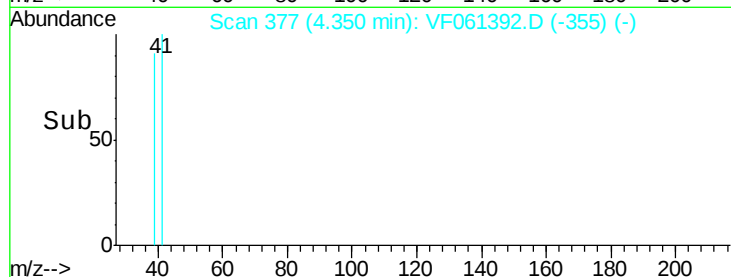
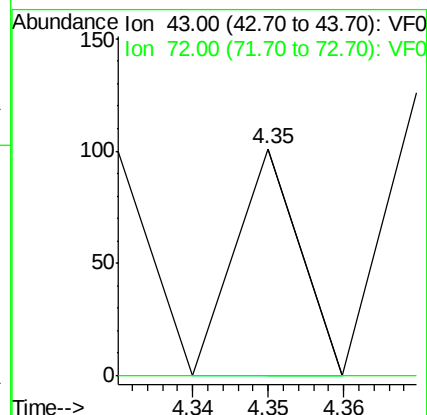
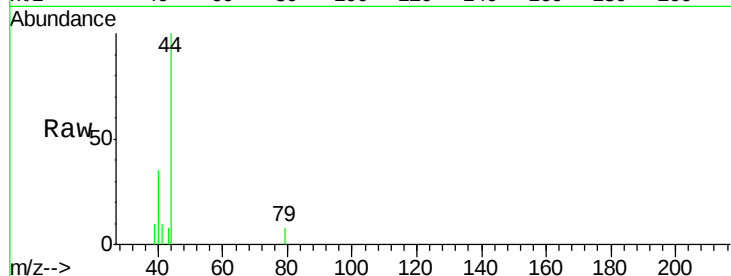
ClientSampleId :

Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

72 0.0 16.5 24.7#



#29

Tetrahydrofuran

Concen: 3.869 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

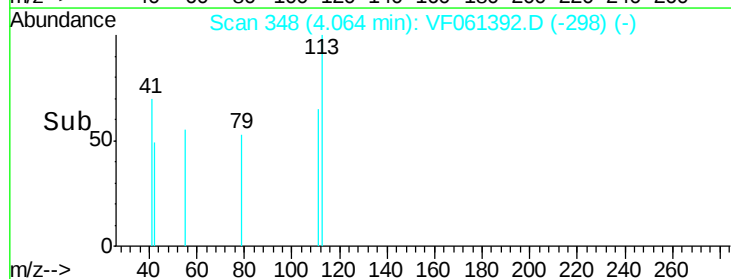
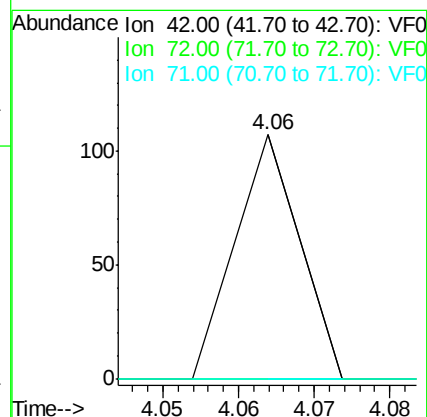
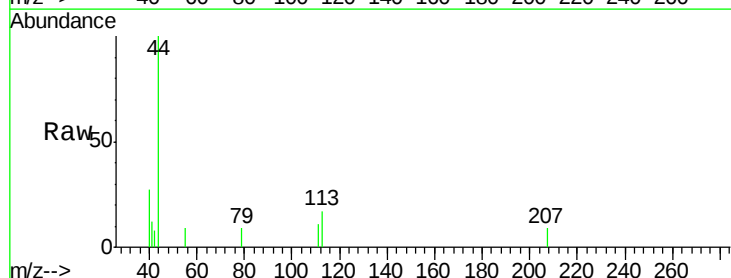
Tgt Ion: 42 Resp: 63

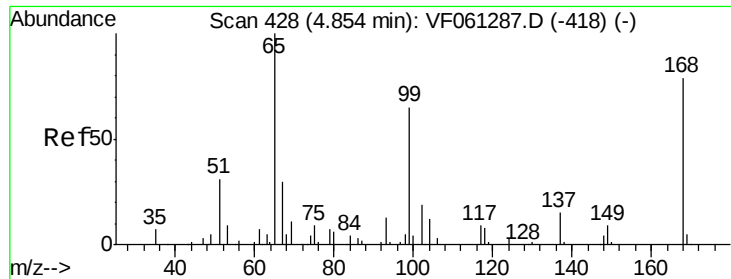
Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

71 0.0 29.5 44.3#

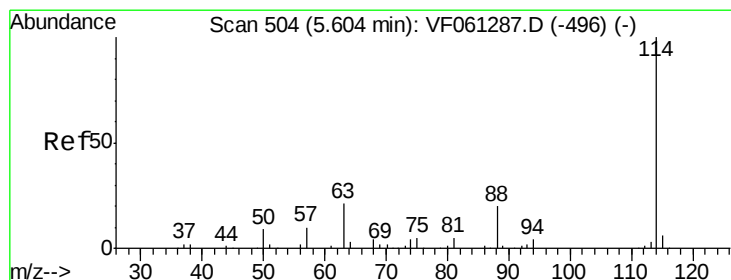
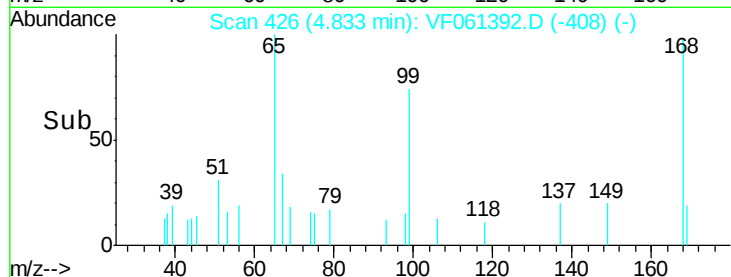
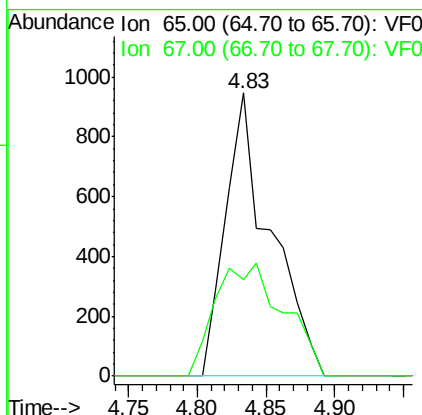
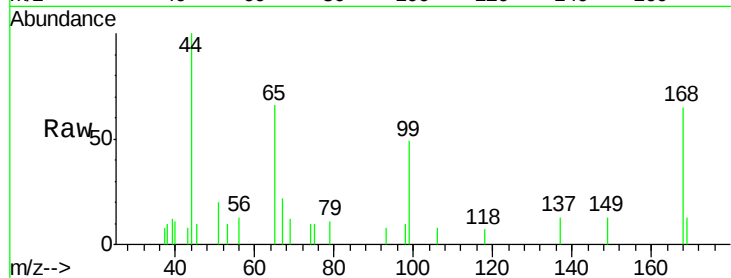




#33
 1,2-Dichloroethane-d4
 Concen: 20.641 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.02 min
 Lab File: VF061392.D
 Acq: 14 Jan 2019 16:35

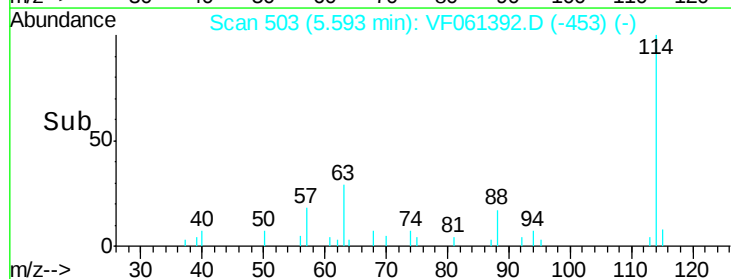
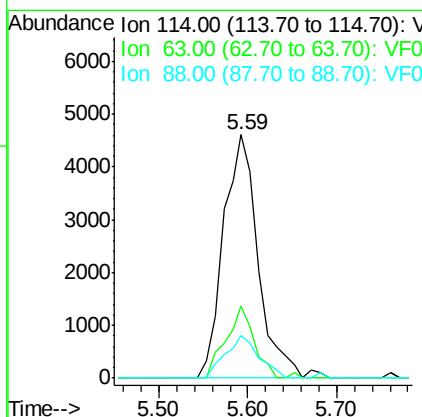
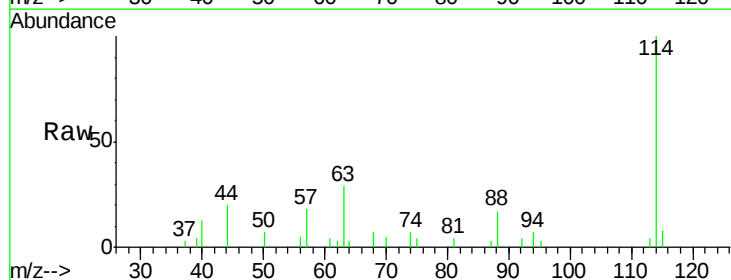
Instrument :
 MSVOA_F
 ClientSampled :

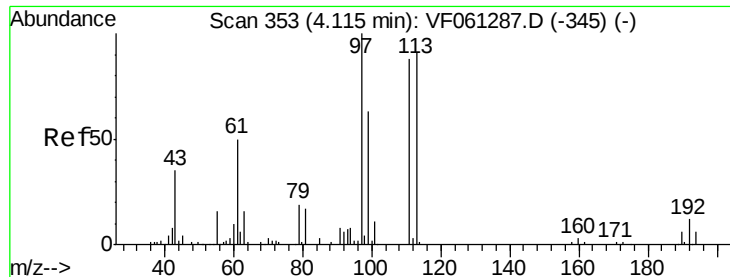
Tot Ion: 65 Resp: 2147
 Ion Ratio Lower Upper
 65 100
 67 33.9 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF061392.D
 Acq: 14 Jan 2019 16:35

Tgt Ion: 114 Resp: 12612
 Ion Ratio Lower Upper
 114 100
 63 29.5 0.0 42.8
 88 17.3 0.0 40.0

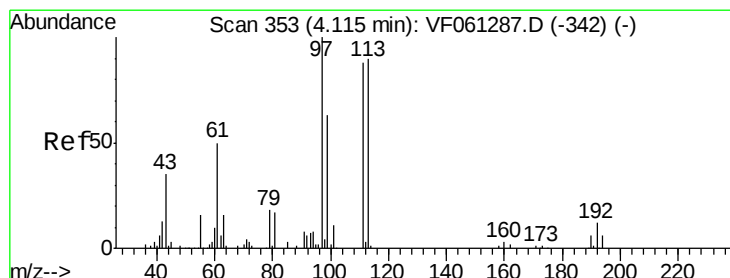
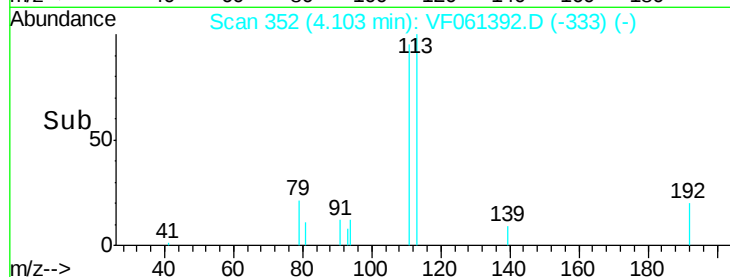
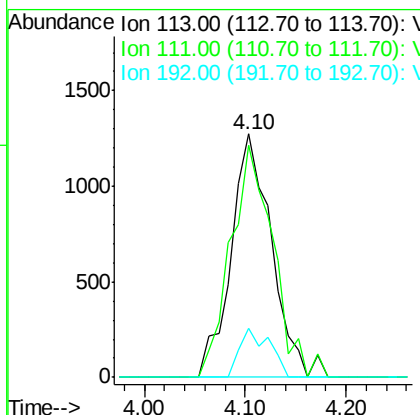
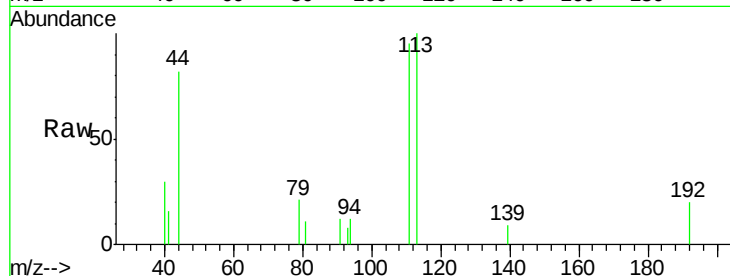




#35
Dibromofluoromethane
Concen: 36.983 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

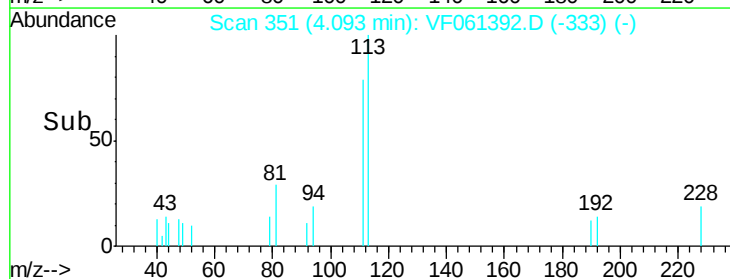
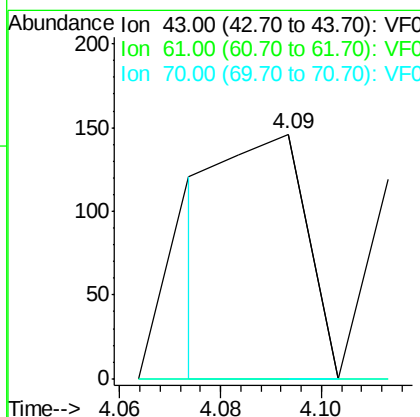
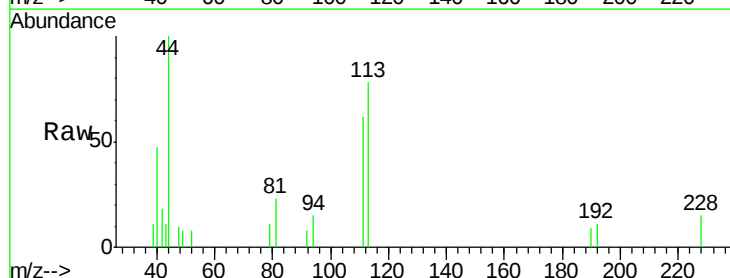
Instrument :
MSVOA_F
ClientSampleId :

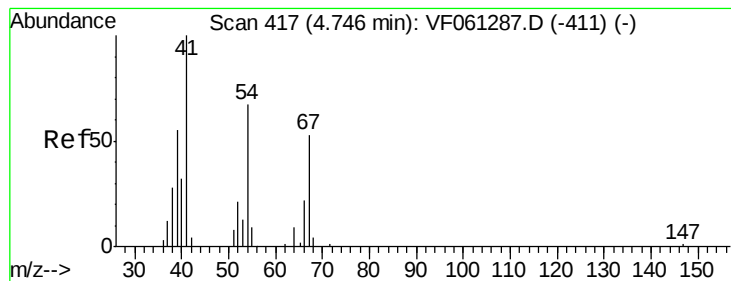
Tot Ion:113 Resp: 3569
Ion Ratio Lower Upper
113 100
111 95.4 78.0 117.0
192 20.1 10.6 16.0#



#37
Ethyl Acetate
Concen: 3.095 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

Tgt Ion: 43 Resp: 166
Ion Ratio Lower Upper
43 100
61 0.0 113.3 169.9#
70 0.0 9.4 14.0#





#41

Methacrylonitrile

Concen: 2.103 ug/l

RT: 4.78 min Scan# 421

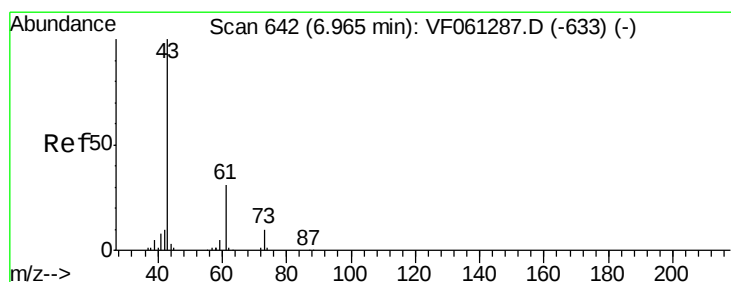
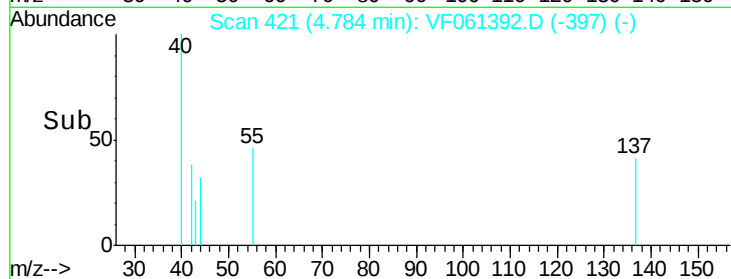
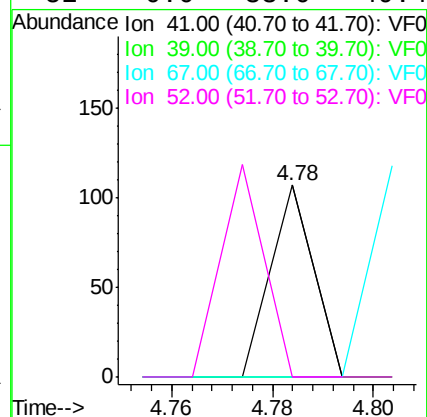
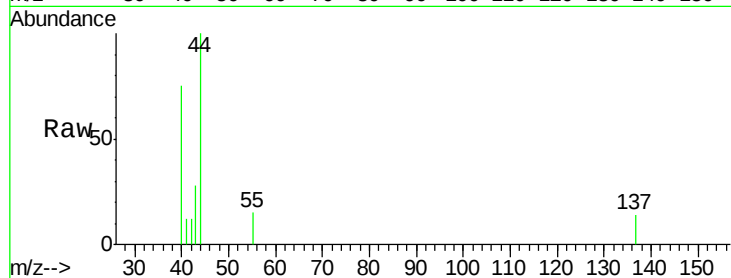
Delta R.T. 0.04 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	63
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.7	79.1#
67	0.0	41.4	62.2#
52	0.0	33.0	49.4#



#43

Isopropyl Acetate

Concen: 4.463 ug/l

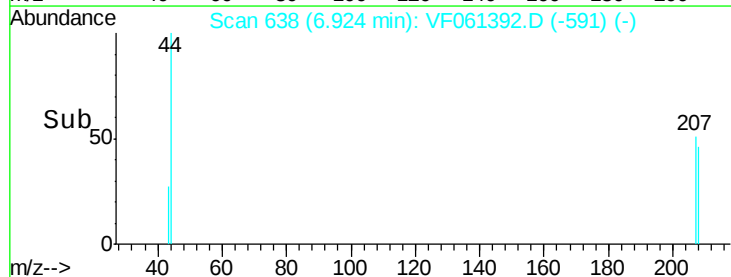
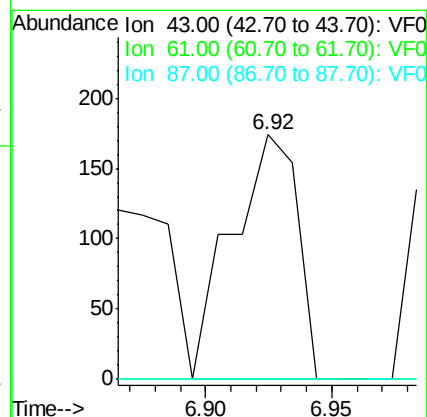
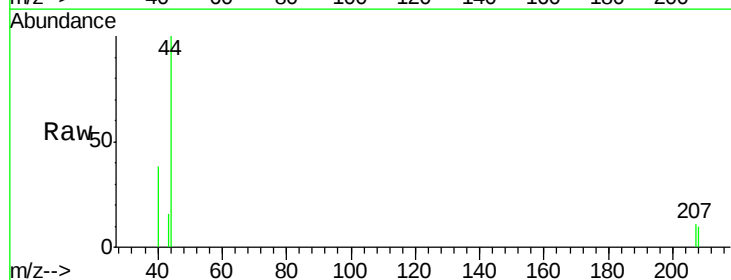
RT: 6.92 min Scan# 638

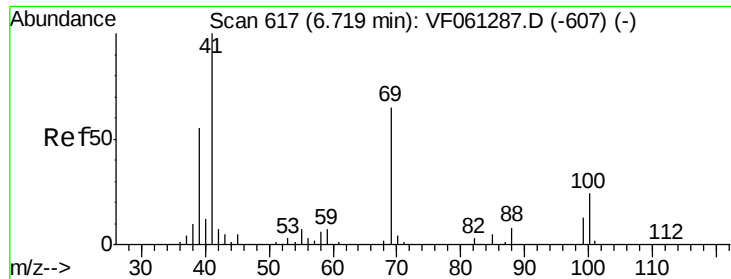
Delta R.T. -0.04 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

Tgt Ion:	43	Resp:	316
Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.3	36.5#
87	0.0	0.2	0.4#

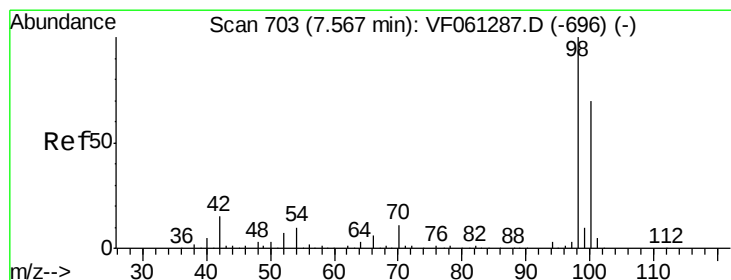
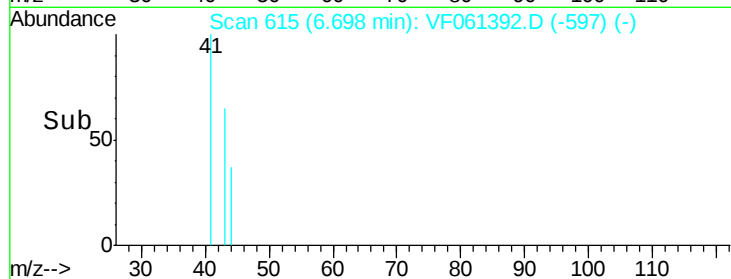
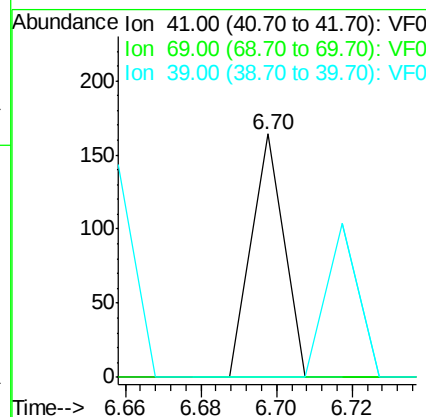
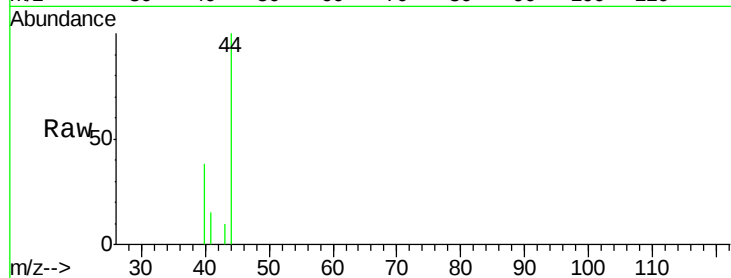




#48
Methvl methacrylate
Concen: 2.110 ug/l
RT: 6.70 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

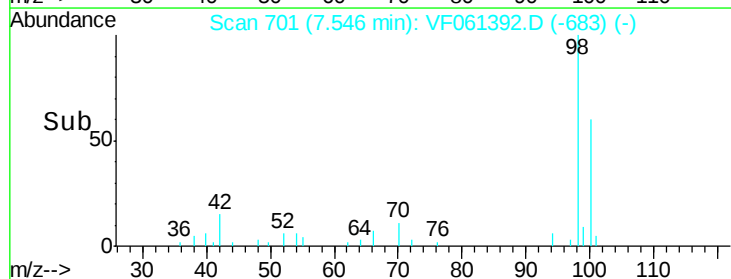
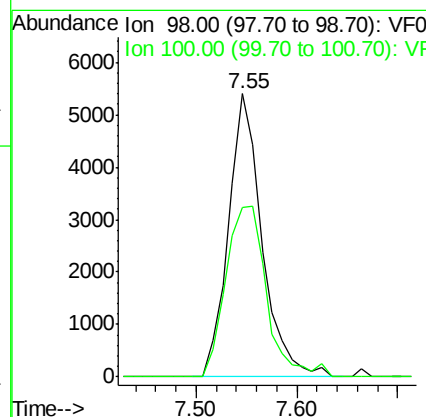
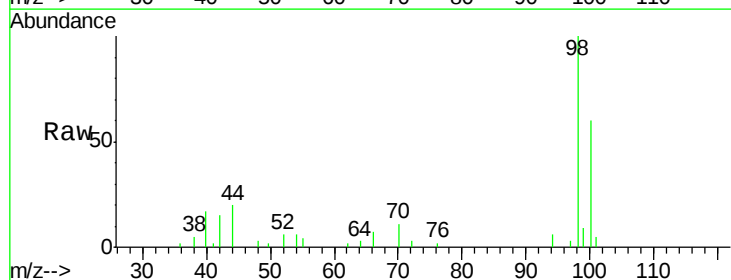
Instrument :
MSVOA_F
ClientSampled :

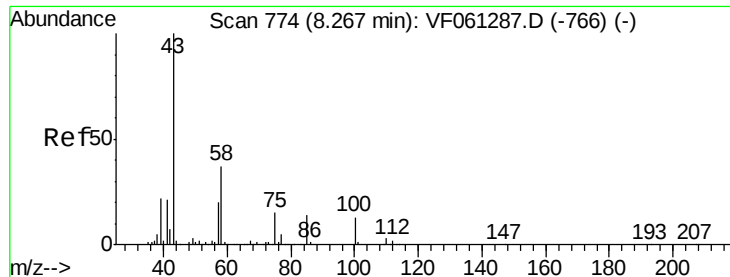
Tot Ion: 41 Resp: 97
Ion Ratio Lower Upper
41 100
69 0.0 51.5 77.3#
39 0.0 44.1 66.1#



#50
Toluene-d8
Concen: 43.701 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

Tgt Ion: 98 Resp: 12480
Ion Ratio Lower Upper
98 100
100 59.9 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 1.796 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

Instrument :

MSVOA_F

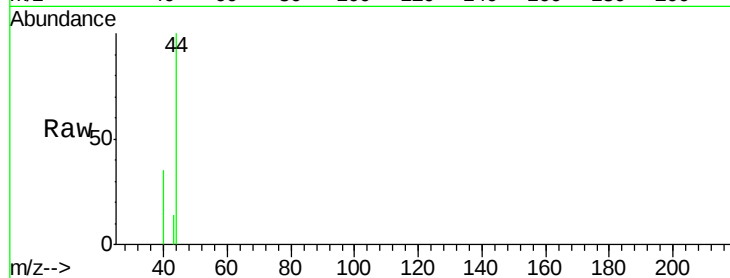
ClientSampleId :

Tot Ion: 43 Resp: 96

Ion Ratio Lower Upper

43 100

58 0.0 29.6 44.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

150

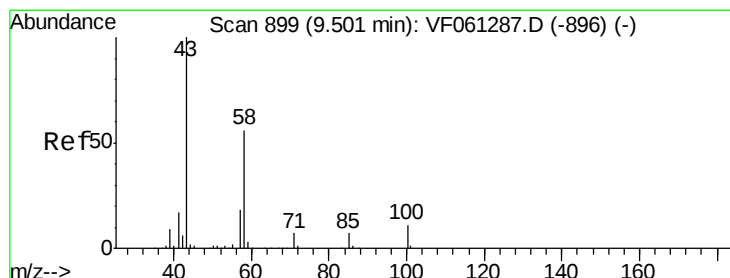
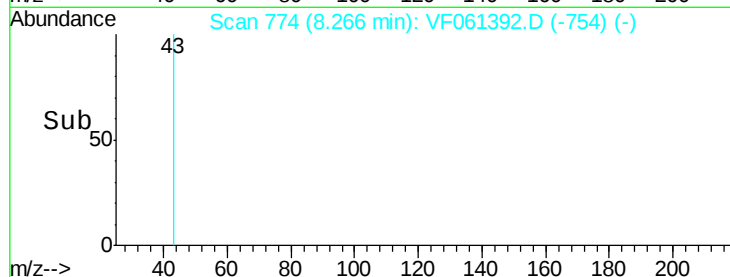
100

50

0

8.24 8.26 8.28 8.30

Time-->



#59

2-Hexanone

Concen: 11.594 ug/l

RT: 9.46 min Scan# 895

Delta R.T. -0.04 min

Lab File: VF061392.D

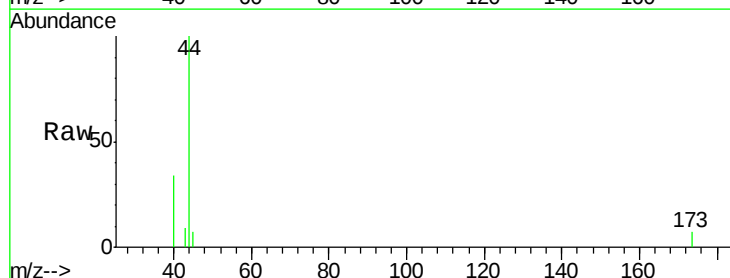
Acq: 14 Jan 2019 16:35

Tgt Ion: 43 Resp: 439

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

200

150

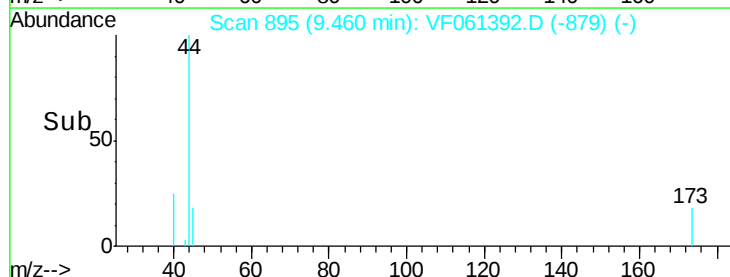
100

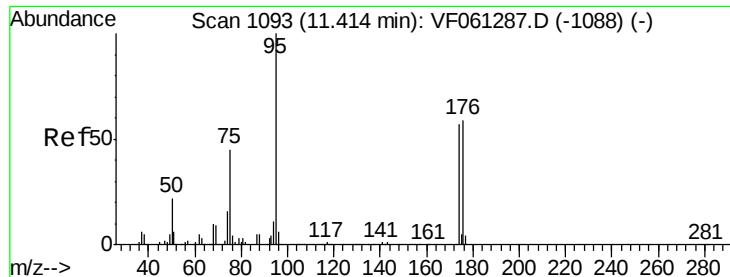
50

0

9.40 9.45 9.50 9.55

Time-->





#62

4-Bromofluorobenzene

Concen: 26.640 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

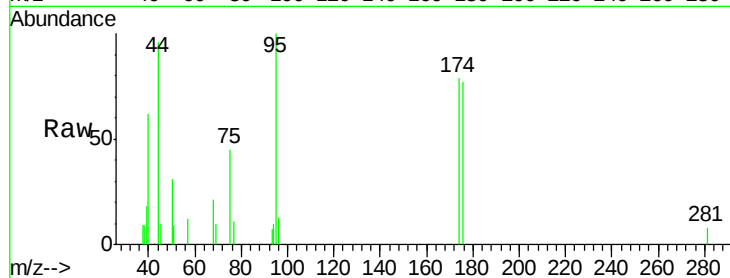
Tot Ion: 95 Resp: 3322

Ion Ratio Lower Upper

95 100

174 78.6 0.0 114.2

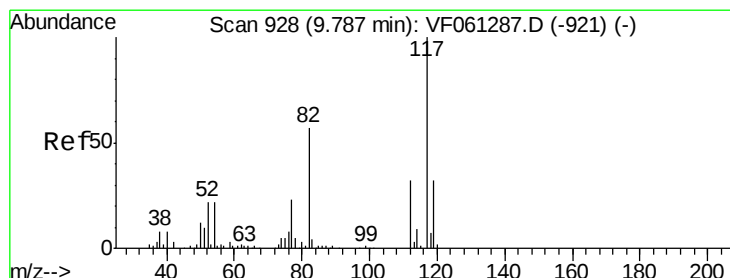
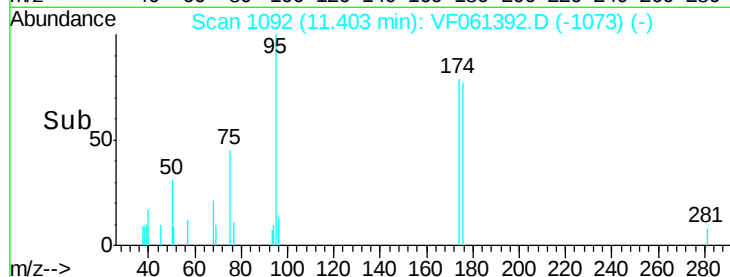
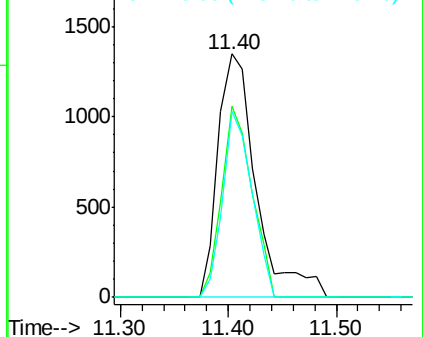
176 76.6 0.0 117.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. -0.02 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

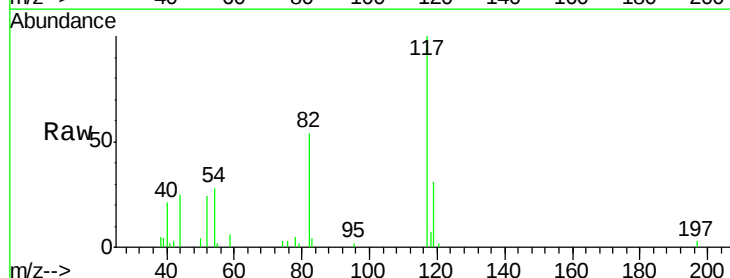
Tgt Ion: 117 Resp: 9255

Ion Ratio Lower Upper

117 100

82 54.5 45.3 67.9

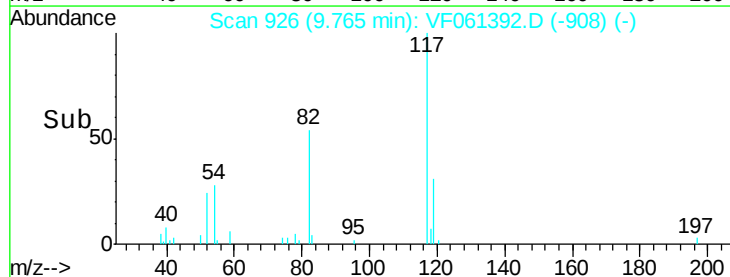
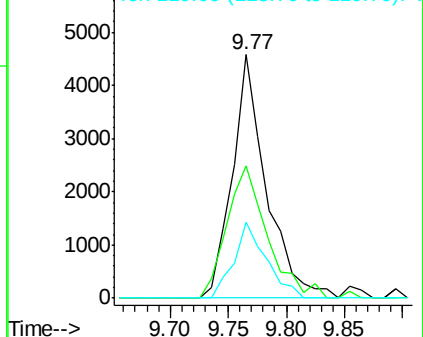
119 31.3 25.4 38.0

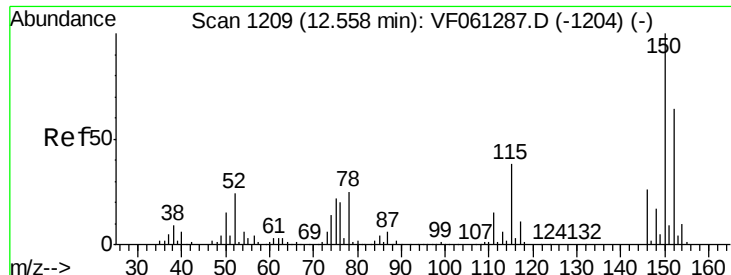


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



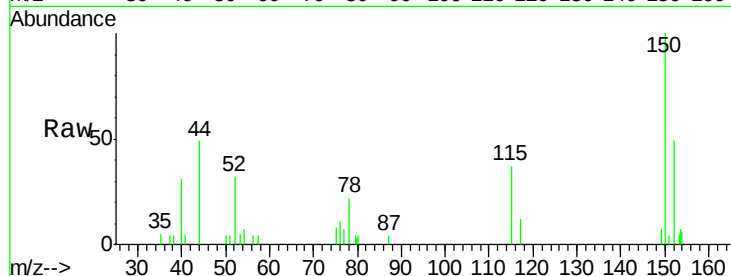


#72

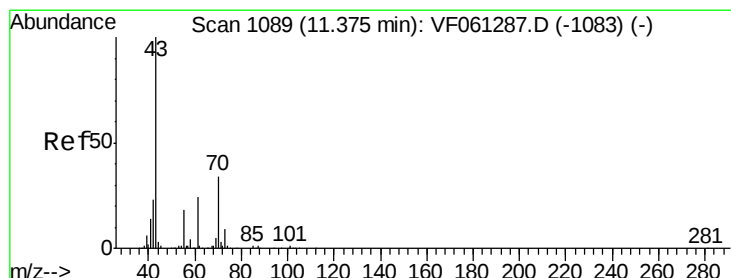
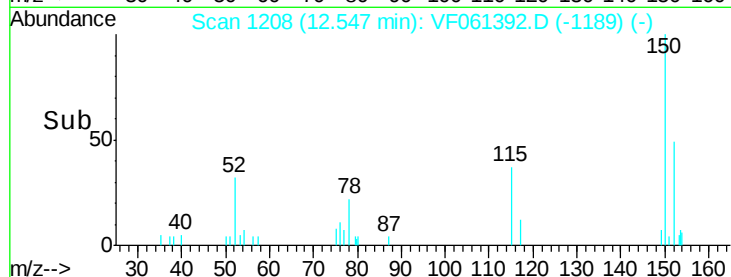
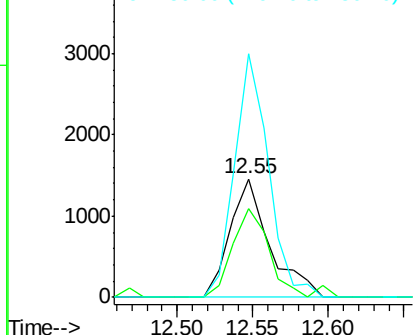
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 2656
Ion Ratio Lower Upper
152 100
115 75.2 29.6 88.9
150 205.2 0.0 315.4



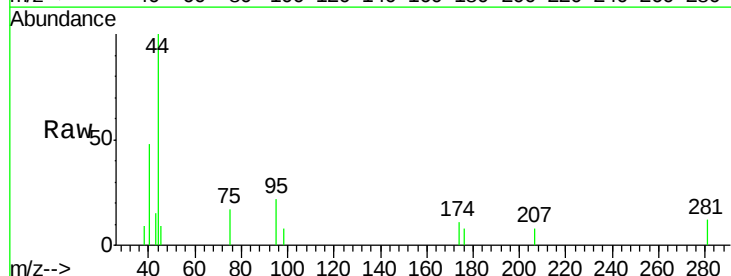
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



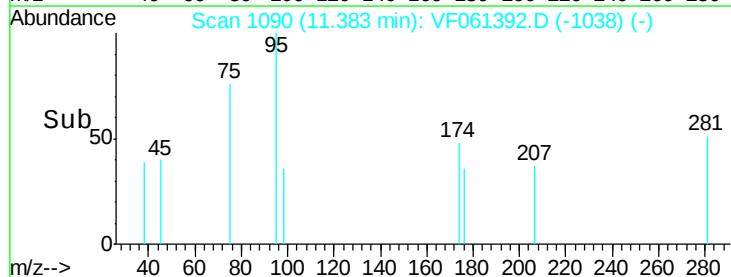
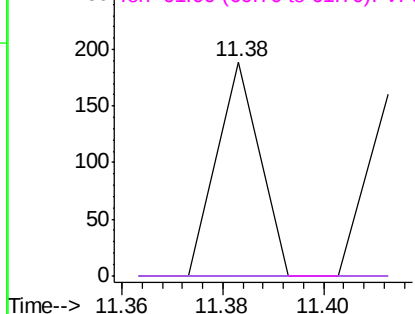
#74

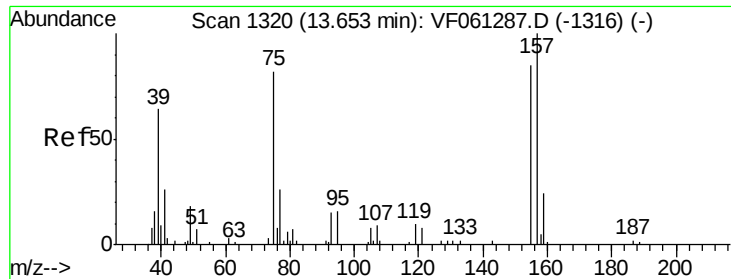
N-ethyl acetate
Concen: 2.108 ug/l
RT: 11.38 min Scan# 1090
Delta R.T. 0.01 min
Lab File: VF061392.D
Acq: 14 Jan 2019 16:35

Tgt Ion: 43 Resp: 112
Ion Ratio Lower Upper
43 100
70 0.0 27.4 41.0#
55 0.0 14.7 22.1#
61 0.0 19.0 28.4#



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





#92

1,2-Dibromo-3-Chloropropane

Concen: 12.138 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

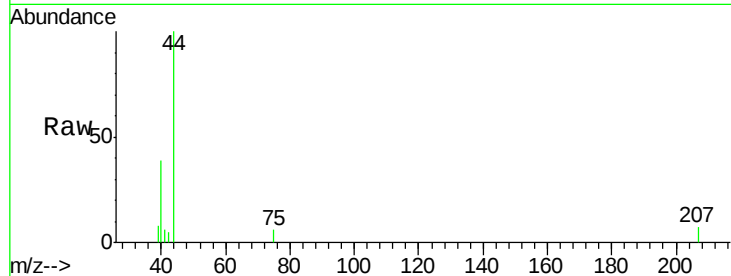
Tot Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

155 0.0 51.3 154.0#

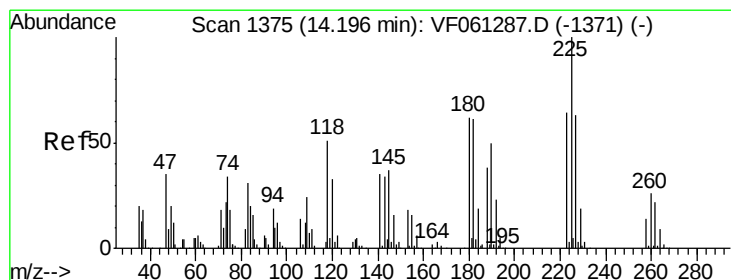
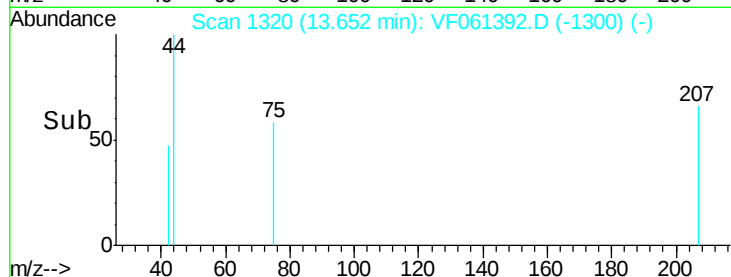
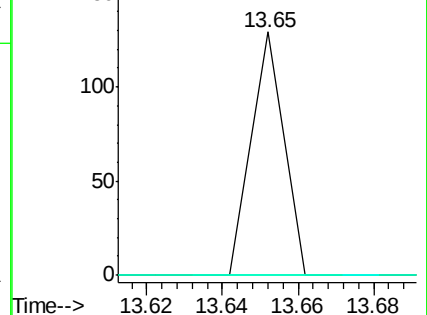
157 0.0 60.7 182.0#



Abundance Ion 75.00 (74.70 to 75.70): VF061287.D (-1316) (-)

Ion 155.00 (154.70 to 155.70): VF061287.D (-1316) (-)

Ion 157.00 (156.70 to 157.70): VF061287.D (-1316) (-)



#94

Hexachlorobutadiene

Concen: 1.875 ug/l

RT: 14.04 min Scan# 1359

Delta R.T. -0.16 min

Lab File: VF061392.D

Acq: 14 Jan 2019 16:35

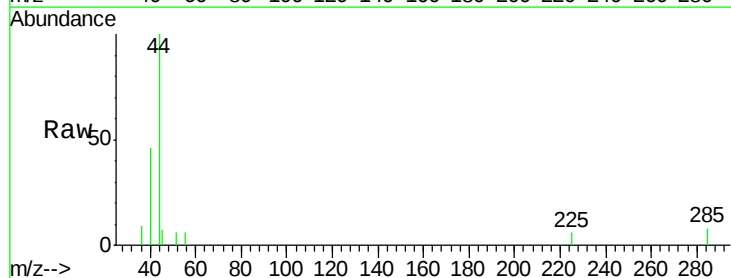
Tgt Ion: 225 Resp: 72

Ion Ratio Lower Upper

225 100

223 0.0 31.8 95.4#

227 0.0 31.3 93.9#



Abundance Ion 225.00 (224.70 to 225.70): VF061287.D (-1371) (-)

Ion 223.00 (222.70 to 223.70): VF061287.D (-1371) (-)

Ion 227.00 (226.70 to 227.70): VF061287.D (-1371) (-)

