

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031419\
 Data File : VF061938.D
 Acq On : 14 Mar 2019 14:50
 Operator : VA/AP
 Sample : VF0314SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0314SBL01

Quant Time: Mar 15 01:16:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	313895	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	461904	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	392779	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	226643	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	119891	52.45	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	104.90%	
35) Dibromofluoromethane	4.10	113	176474	54.75	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	109.50%	
50) Toluene-d8	7.55	98	479245	50.02	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.41	95	204920	54.60	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	109.20%	

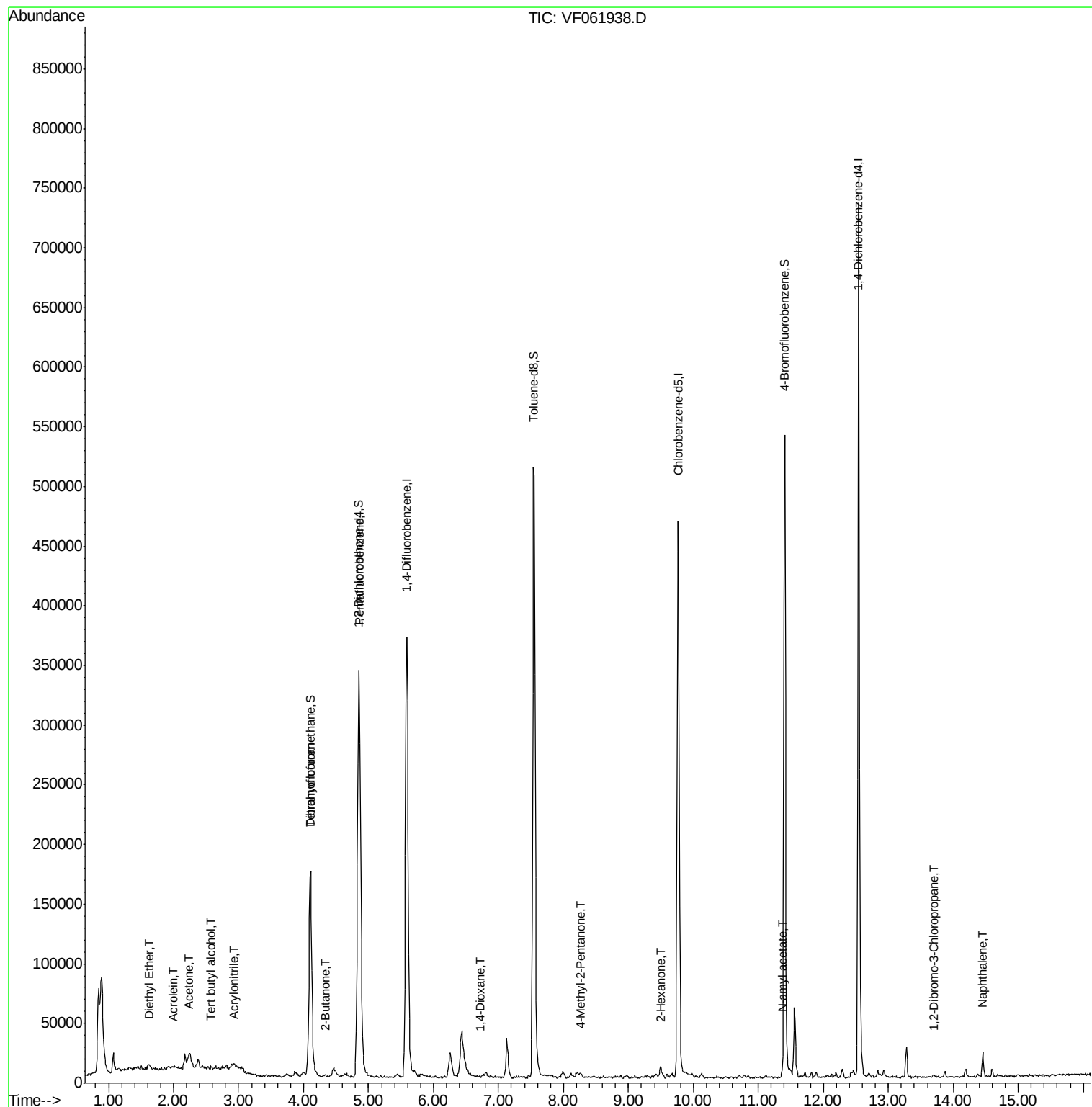
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	1389	1.411	ug/l	79
11) Tert butyl alcohol	2.57	59	305	2.351	ug/l #	3
13) Acrolein	1.99	56	1092	6.642	ug/l #	59
15) Acrylonitrile	2.95	53	1157	2.800	ug/l #	65
16) Acetone	2.24	43	8086	16.887	ug/l	92
18) Methyl Acetate	2.37	43	5717	Below Cal	#	62
20) Methylene Chloride	2.18	84	4607	Below Cal	#	83
25) 2-Butanone	4.33	43	2947	3.026	ug/l	97
29) Tetrahydrofuran	4.10	42	1403	3.340	ug/l #	52
49) 1,4-Dioxane	6.71	88	68	5.207	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	3979	2.550	ug/l	87
59) 2-Hexanone	9.49	43	5751	5.109	ug/l	88
74) N-amyl acetate	11.37	43	4383	1.220	ug/l #	84
92) 1,2-Dibromo-3-Chloropropan	13.68	75	61	3.893	ug/l #	1
95) Naphthalene	14.45	128	11836	1.403	ug/l	98

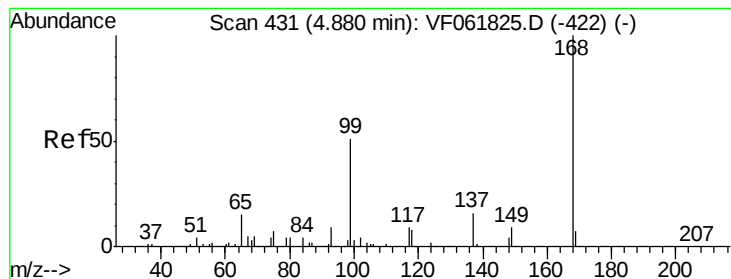
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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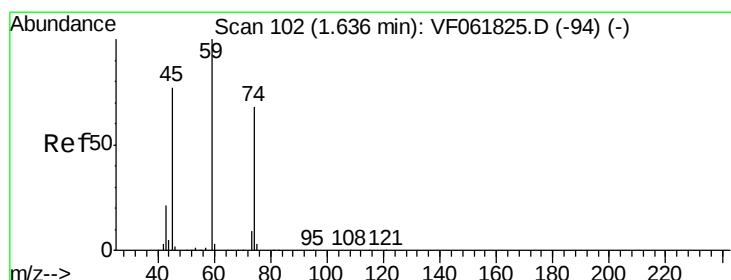
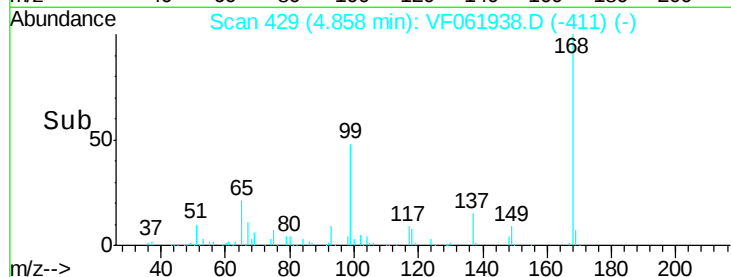
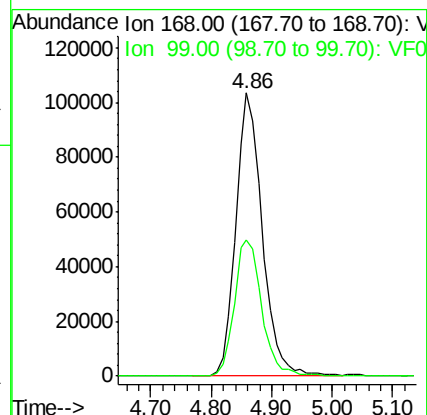
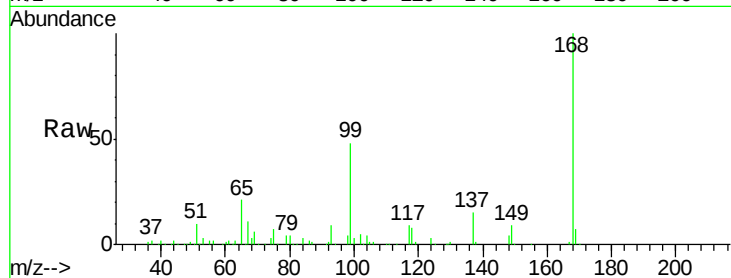




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.86 min Scan# 429
Delta R.T. -0.02 min
Lab File: VF061938.D
Acq: 14 Mar 2019 14:50

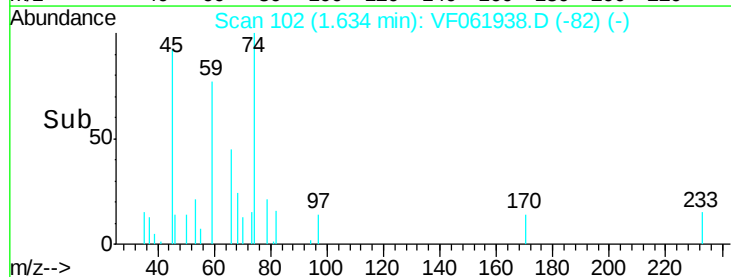
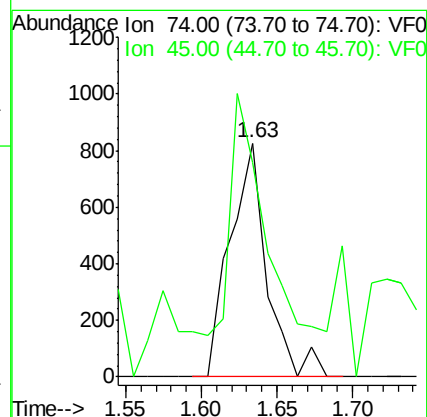
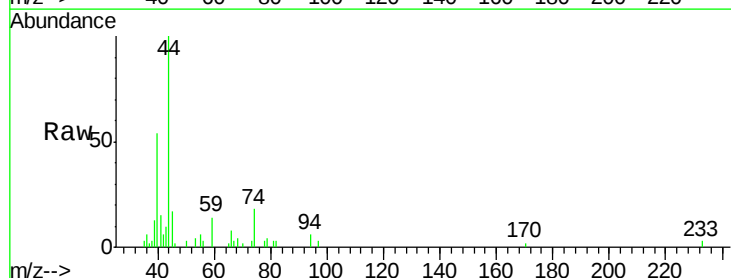
Instrument :
MSVOA_F
ClientSampleId :
VF0314SBL01

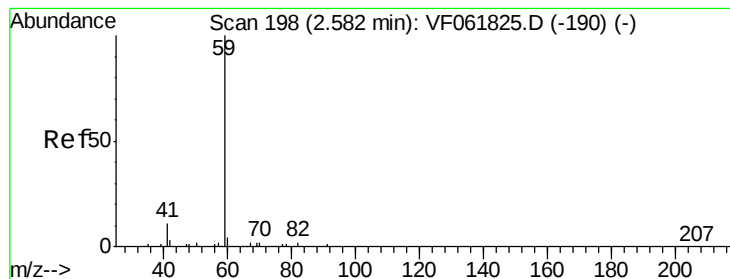
Tot Ion:168 Resp: 313895
Ion Ratio Lower Upper
168 100
99 48.1 40.8 61.2



#8
Diethyl Ether
Concen: 1.411 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
Lab File: VF061938.D
Acq: 14 Mar 2019 14:50

Tgt Ion: 74 Resp: 1389
Ion Ratio Lower Upper
74 100
45 91.8 57.2 171.6



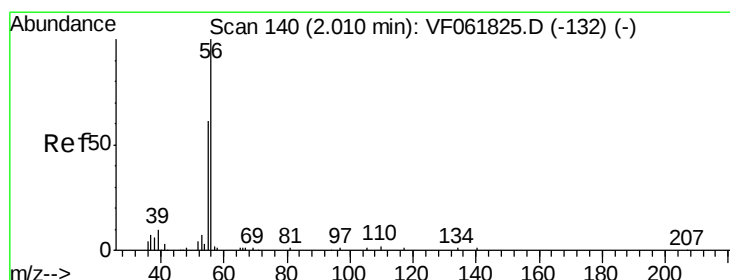
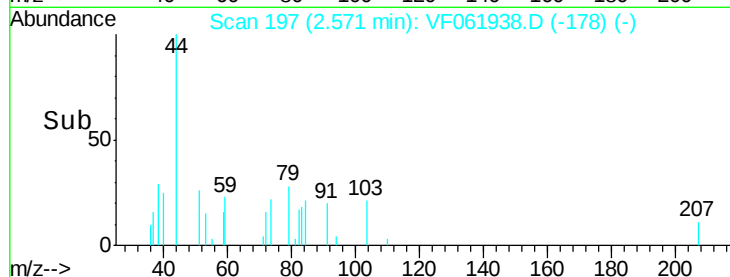
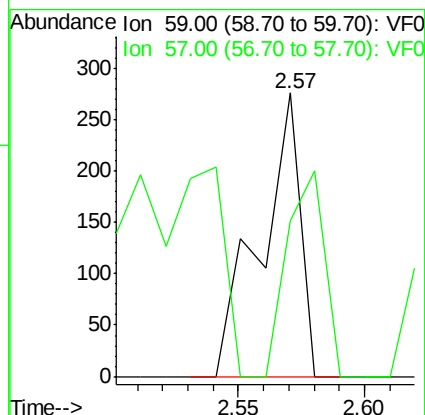
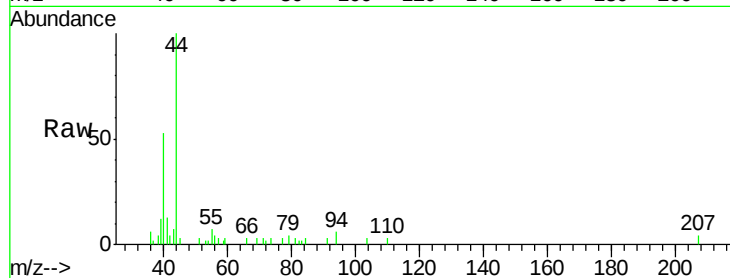


#11

Tert butyl alcohol
Concen: 2.351 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061938.D
Acq: 14 Mar 2019 14:50

Instrument :
MSVOA_F
ClientSampleId :
VF0314SBL01

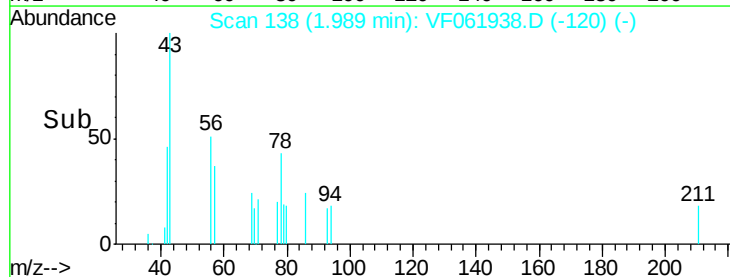
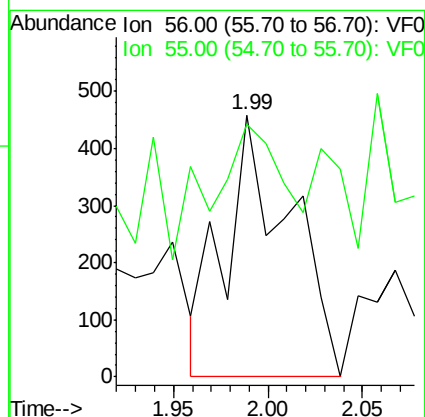
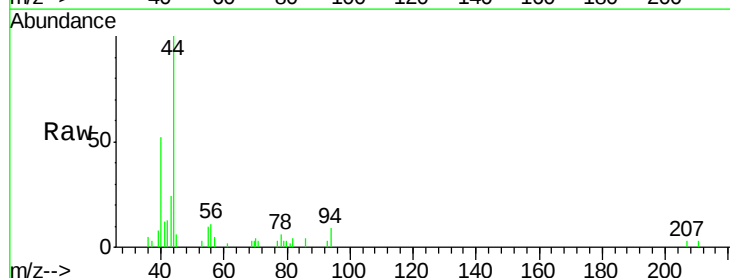
Tot Ion: 59 Resp: 305
Ion Ratio Lower Upper
59 100
57 54.7 11.8 17.6#

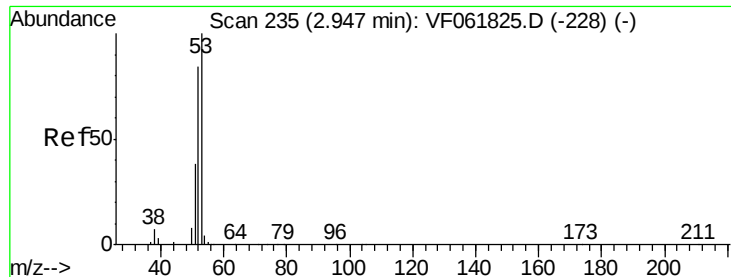


#13

Acrolein
Concen: 6.642 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF061938.D
Acq: 14 Mar 2019 14:50

Tgt Ion: 56 Resp: 1092
Ion Ratio Lower Upper
56 100
55 96.3 51.3 76.9#





#15

Acrylonitrile

Concen: 2.800 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBL01

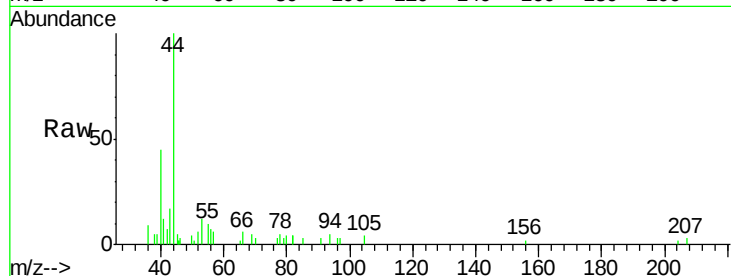
Tot Ion: 53 Resp: 1157

Ion Ratio Lower Upper

53 100

52 51.6 67.4 101.0#

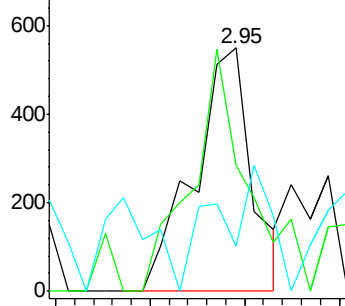
51 18.5 30.7 46.1#



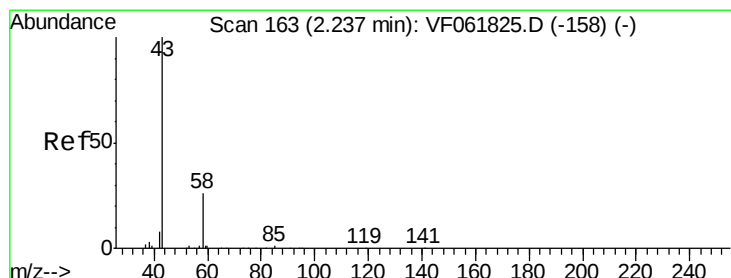
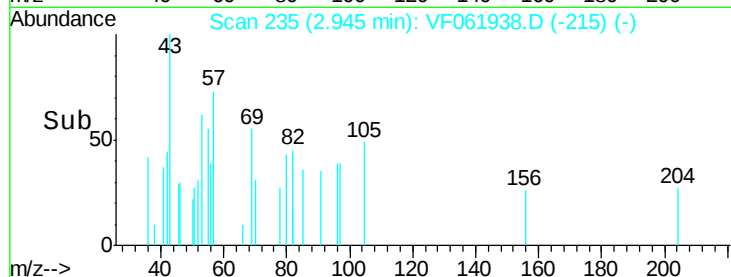
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 16.887 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061938.D

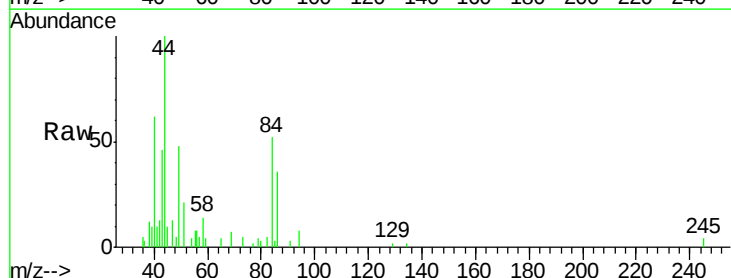
Acq: 14 Mar 2019 14:50

Tgt Ion: 43 Resp: 8086

Ion Ratio Lower Upper

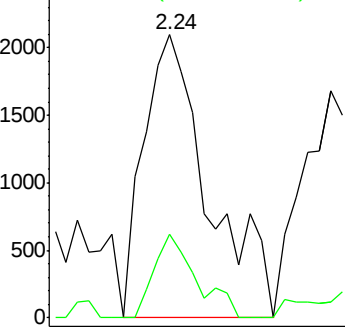
43 100

58 29.4 20.3 30.5

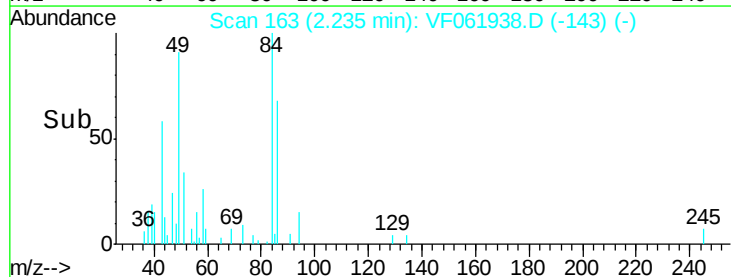


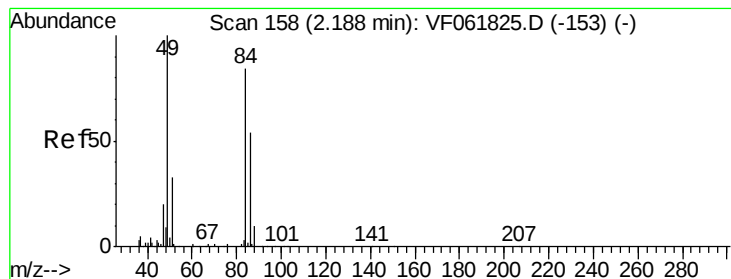
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 2.18 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBL01

Tot Ion: 84 Resp: 4607

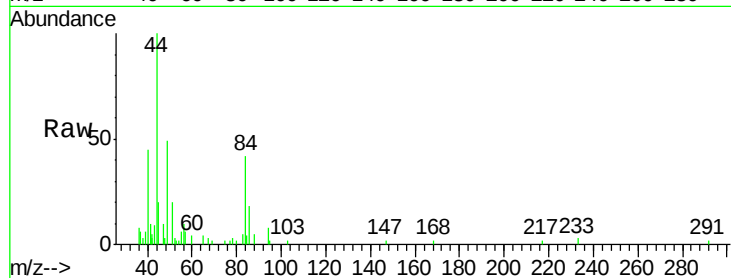
Ion Ratio Lower Upper

84 100

49 107.5 96.8 145.2

51 43.9 31.8 47.6

86 39.0 51.6 77.4#

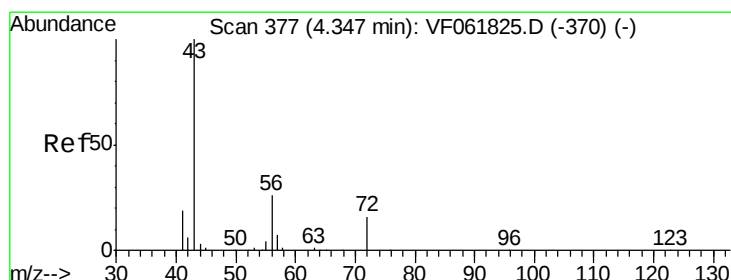
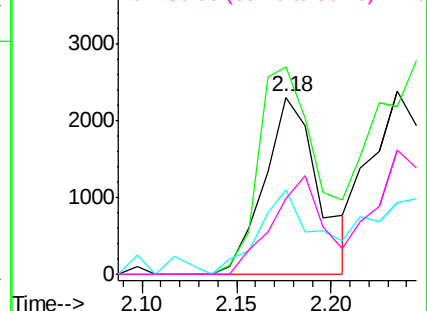
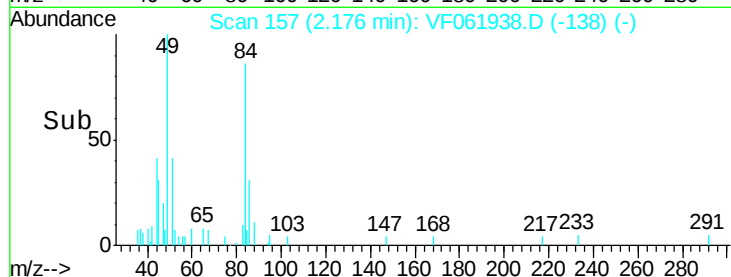


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 3.026 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.02 min

Lab File: VF061938.D

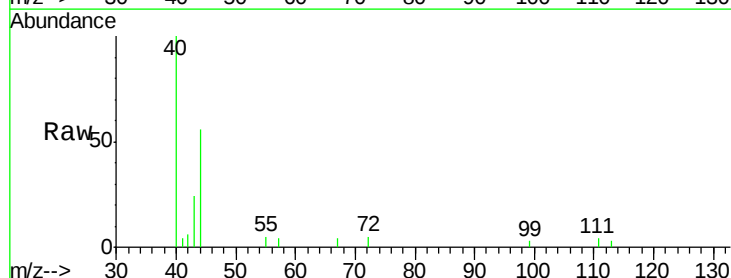
Acq: 14 Mar 2019 14:50

Tgt Ion: 43 Resp: 2947

Ion Ratio Lower Upper

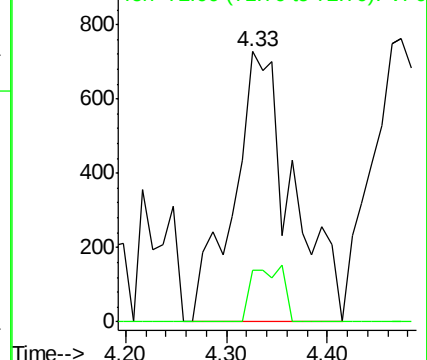
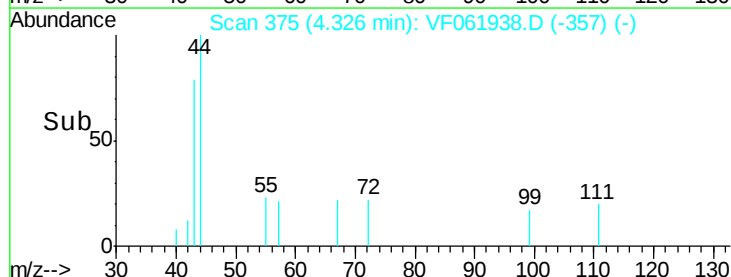
43 100

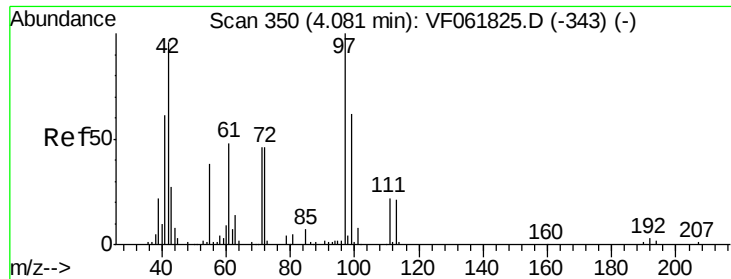
72 19.1 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.340 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.02 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBL01

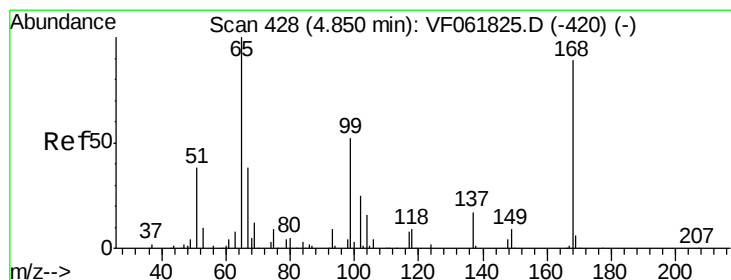
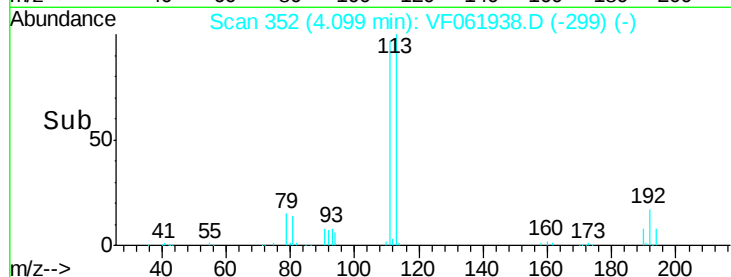
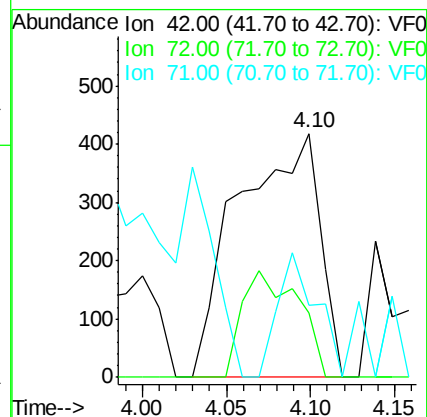
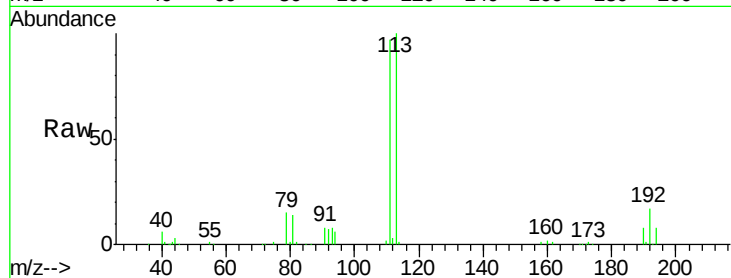
Tot Ion: 42 Resp: 1403

Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

71 24.3 34.6 52.0#



#33

1,2-Dichloroethane-d4

Concen: 52.447 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061938.D

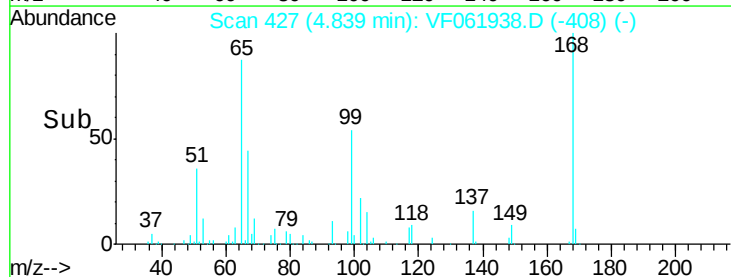
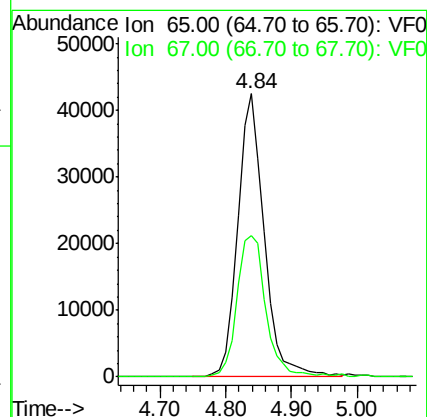
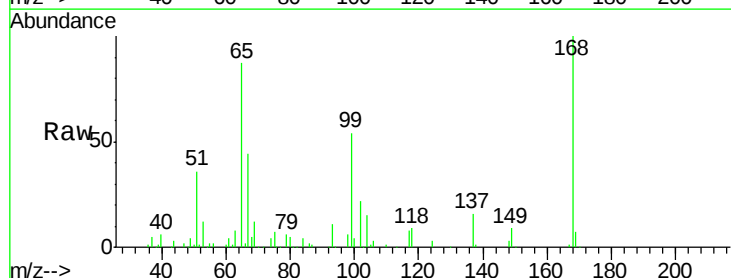
Acq: 14 Mar 2019 14:50

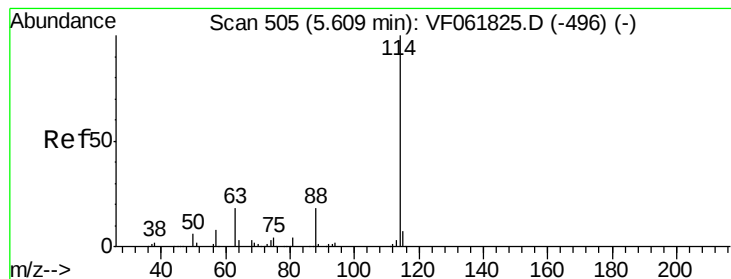
Tgt Ion: 65 Resp: 119891

Ion Ratio Lower Upper

65 100

67 50.1 0.0 108.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBL01

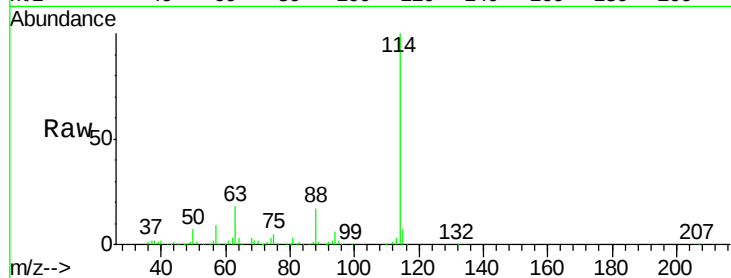
Tot Ion:114 Resp: 461904

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.6

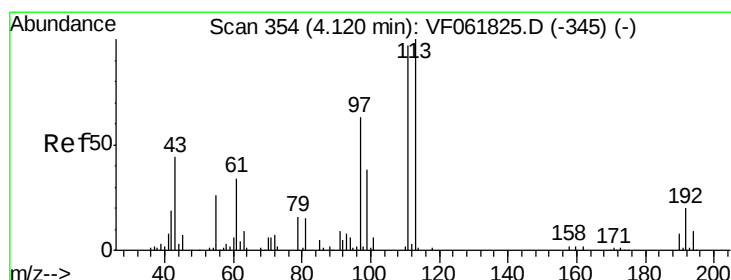
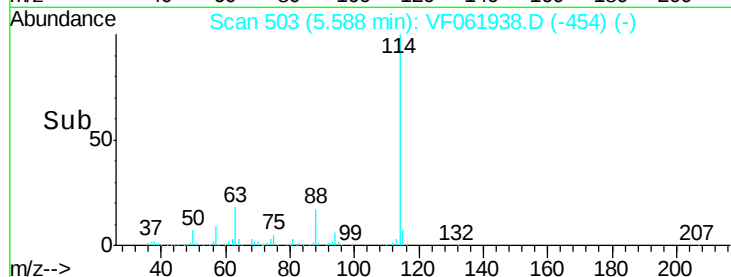
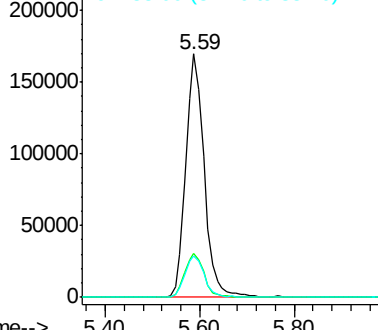
88 17.2 0.0 35.6



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: 54.746 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

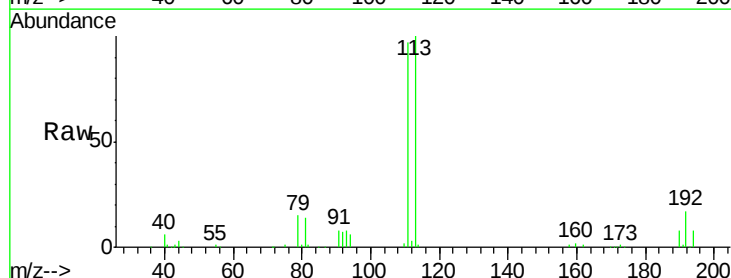
Tgt Ion:113 Resp: 176474

Ion Ratio Lower Upper

113 100

111 97.4 77.6 116.4

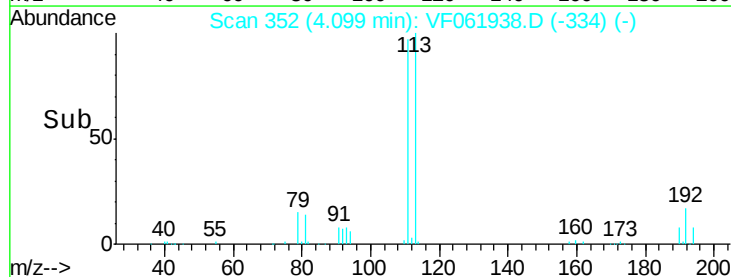
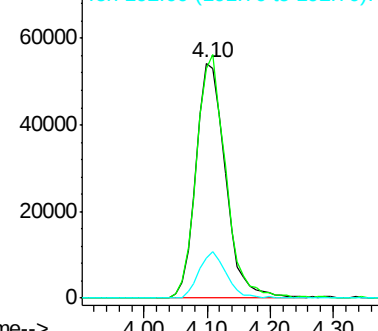
192 17.3 15.9 23.9

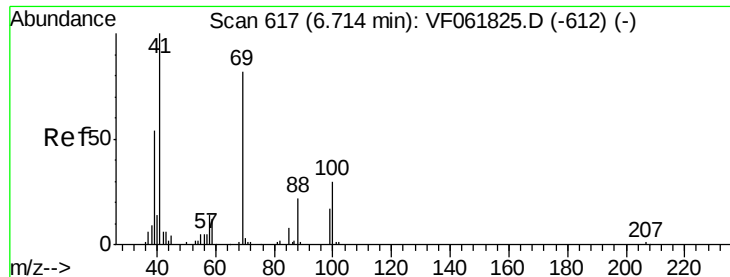


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

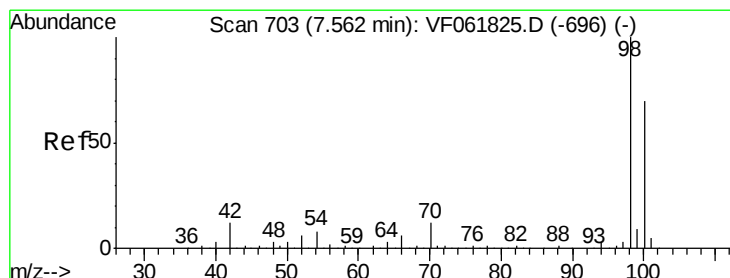
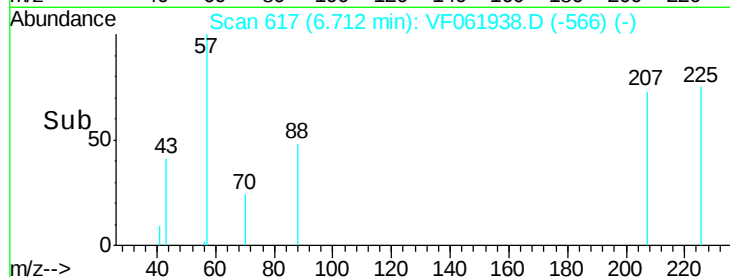
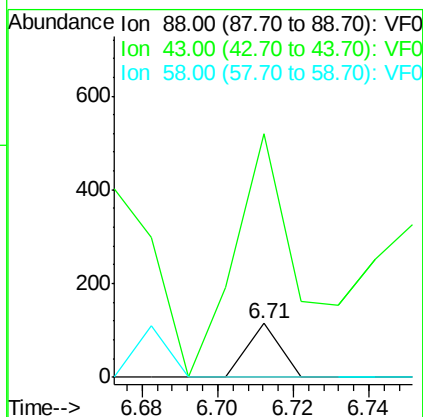
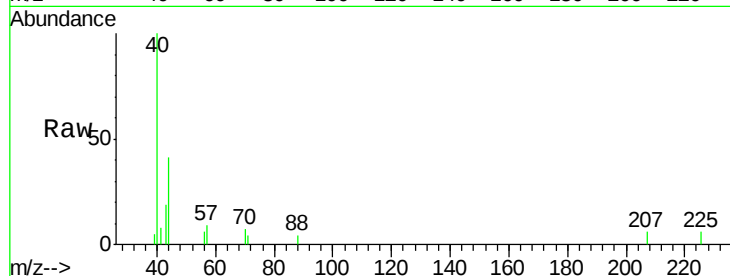




#49
1,4-Dioxane
Concen: 5.207 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.00 min
Lab File: VF061938.D
Acq: 14 Mar 2019 14:50

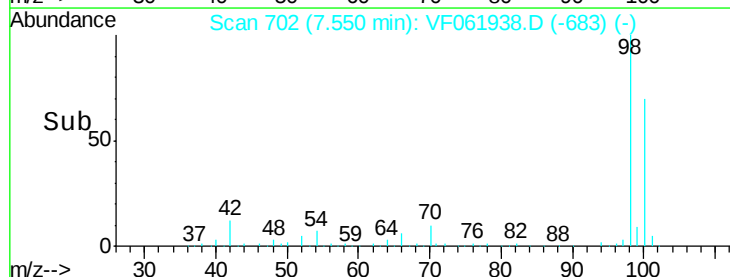
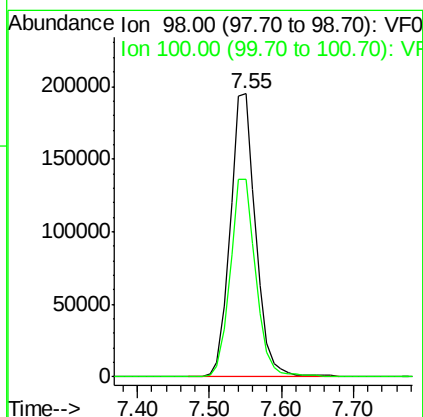
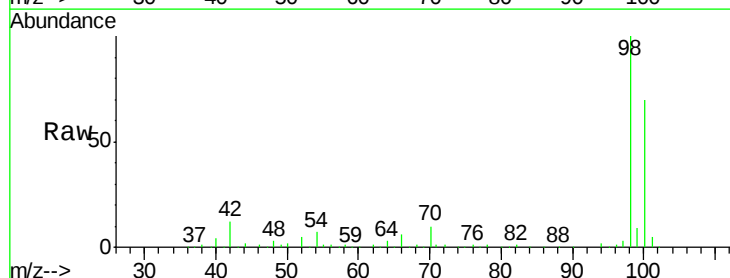
Instrument :
MSVOA_F
ClientSampleId :
VF0314SBL01

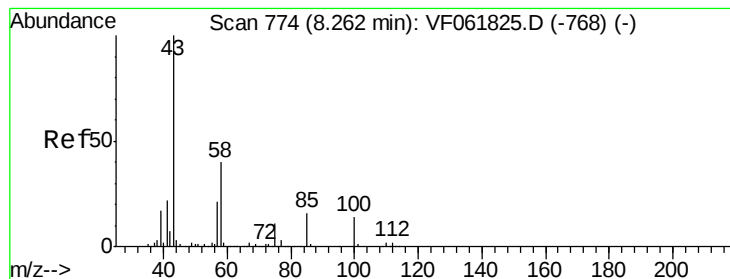
Tot Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 451.3 28.4 42.6#
58 0.0 50.7 76.1#



#50
Toluene-d8
Concen: 50.019 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061938.D
Acq: 14 Mar 2019 14:50

Tgt Ion: 98 Resp: 479245
Ion Ratio Lower Upper
98 100
100 69.9 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 2.550 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

Instrument :

MSVOA_F

ClientSampleId :

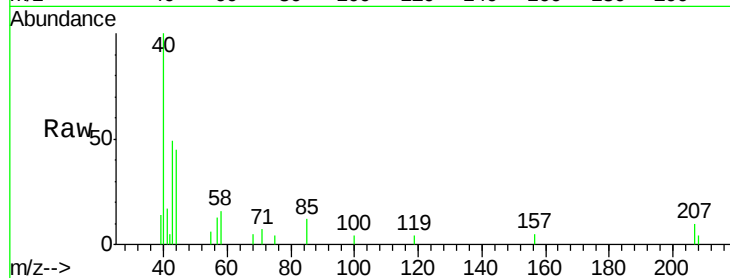
VF0314SBL01

Tot Ion: 43 Resp: 3979

Ion Ratio Lower Upper

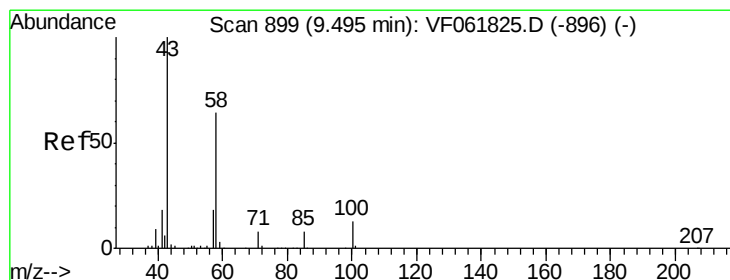
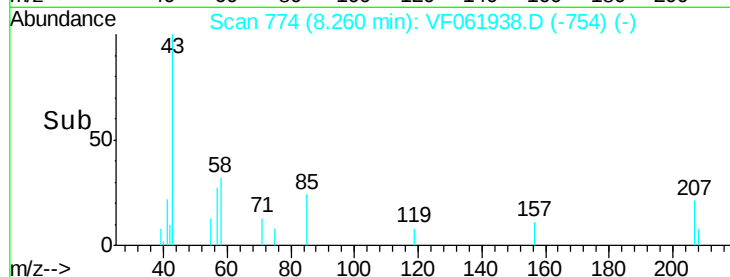
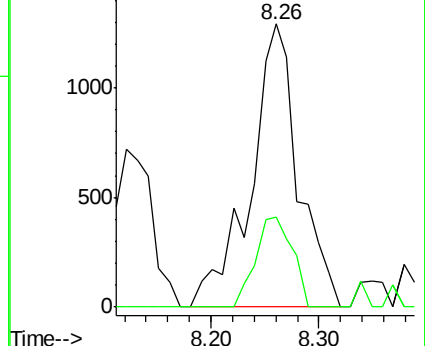
43 100

58 31.9 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 5.109 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.00 min

Lab File: VF061938.D

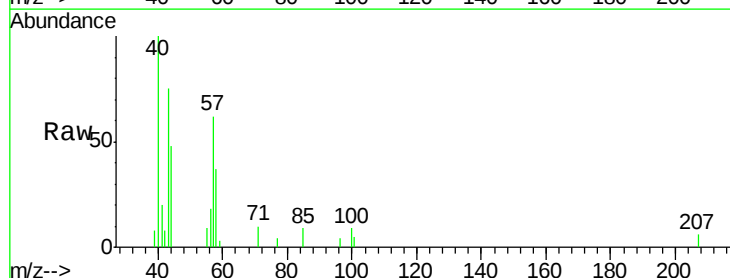
Acq: 14 Mar 2019 14:50

Tgt Ion: 43 Resp: 5751

Ion Ratio Lower Upper

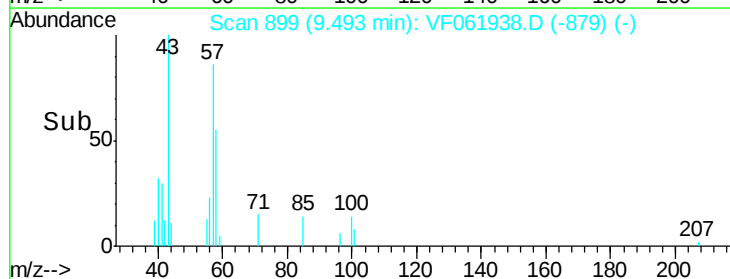
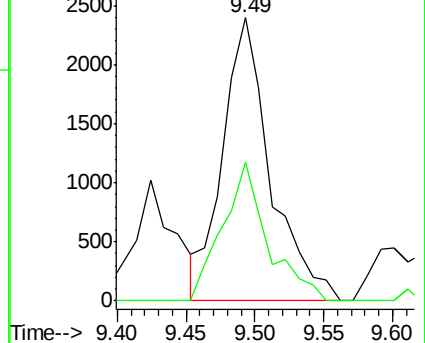
43 100

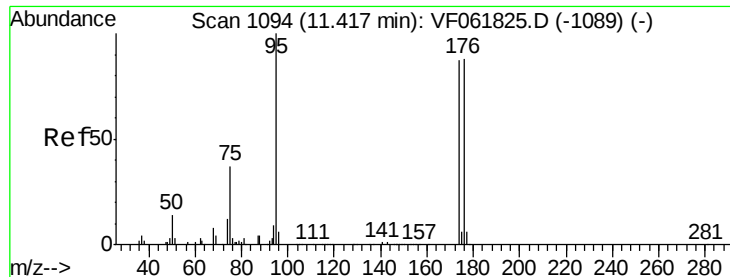
58 49.0 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 54.599 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBL01

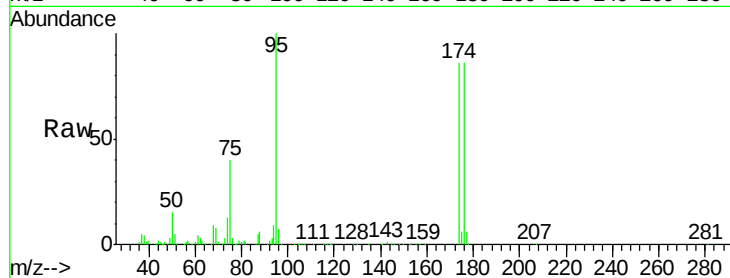
Tot Ion: 95 Resp: 204920

Ion Ratio Lower Upper

95 100

174 86.3 0.0 174.0

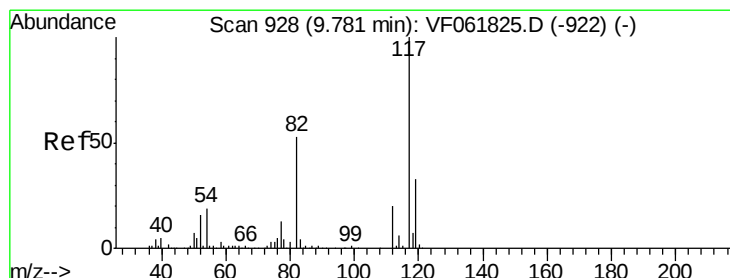
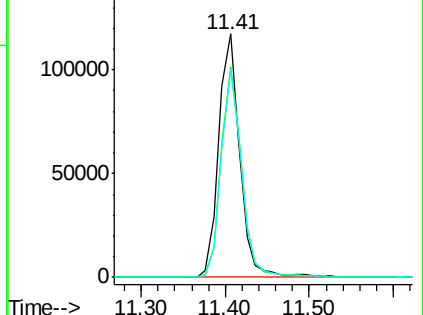
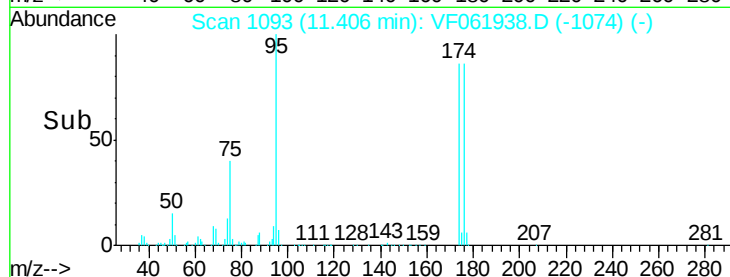
176 85.6 0.0 175.2



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# 927

Delta R.T. -0.01 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

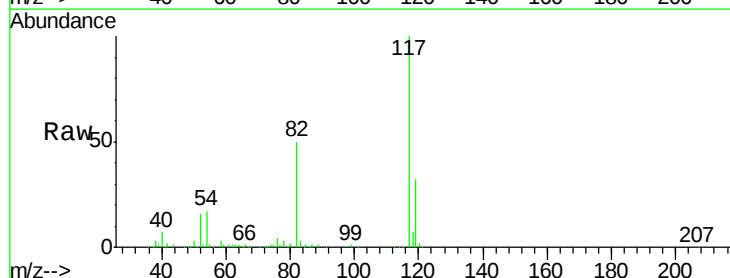
Tgt Ion: 117 Resp: 392779

Ion Ratio Lower Upper

117 100

82 50.2 42.6 63.8

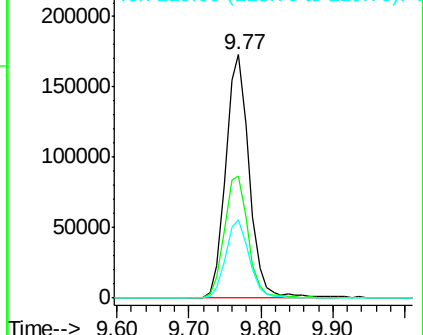
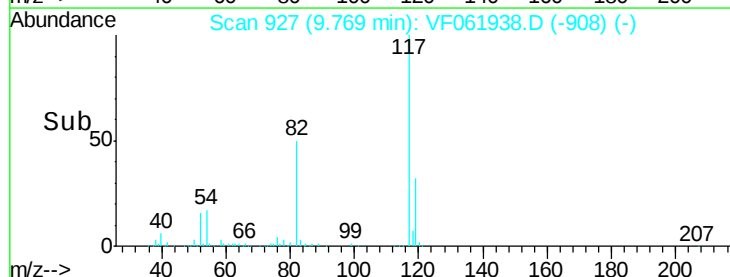
119 32.5 26.0 39.0

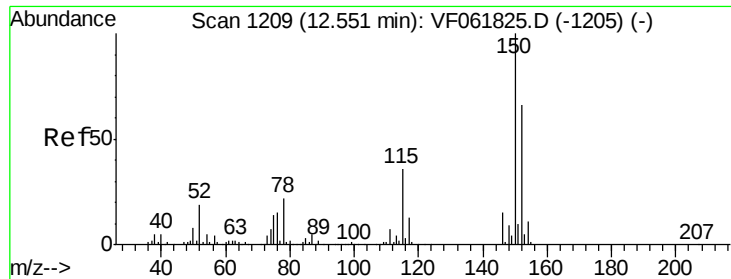


Abundance Ion 117.00 (116.70 to 117.70): VF0

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# 1209

Delta R.T. -0.00 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBL01

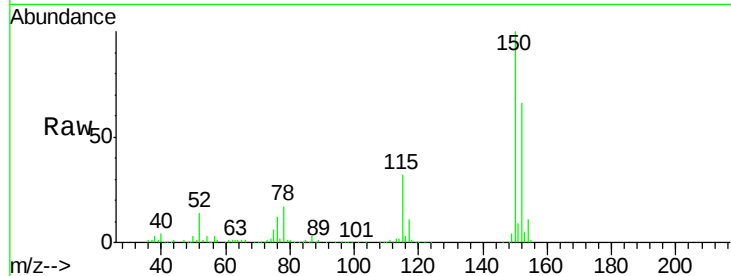
Tot Ion:152 Resp: 226643

Ion Ratio Lower Upper

152 100

115 48.1 27.7 83.1

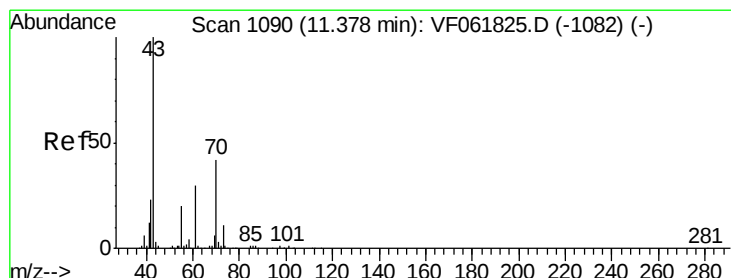
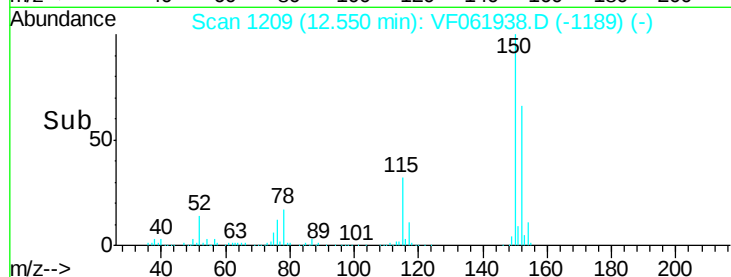
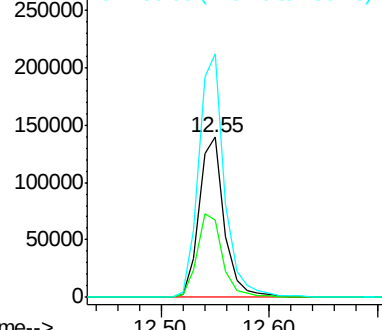
150 151.9 0.0 304.2



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: 1.220 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061938.D

Acq: 14 Mar 2019 14:50

Tgt Ion: 43 Resp: 4383

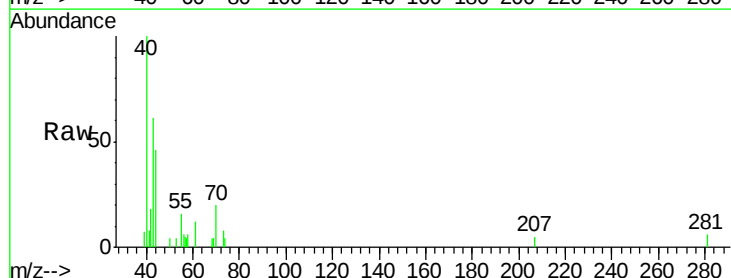
Ion Ratio Lower Upper

43 100

70 32.1 33.4 50.0#

55 25.7 16.3 24.5#

61 19.7 24.0 36.0#

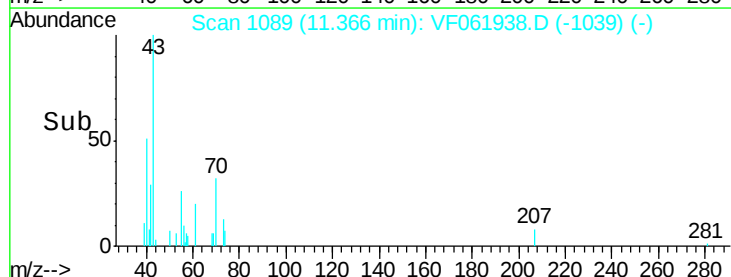
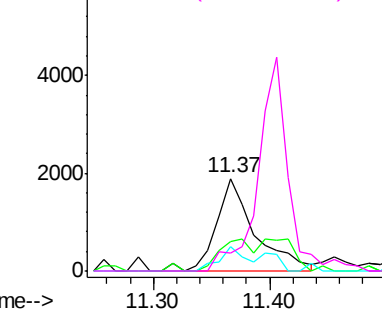


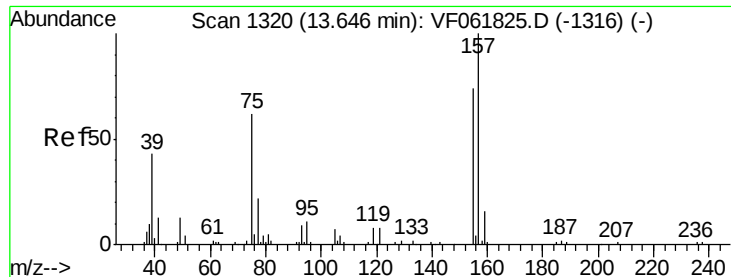
Abundance Ion 43.00 (42.70 to 43.70): VF0

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

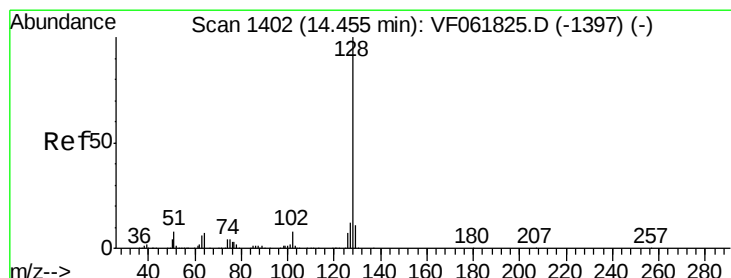
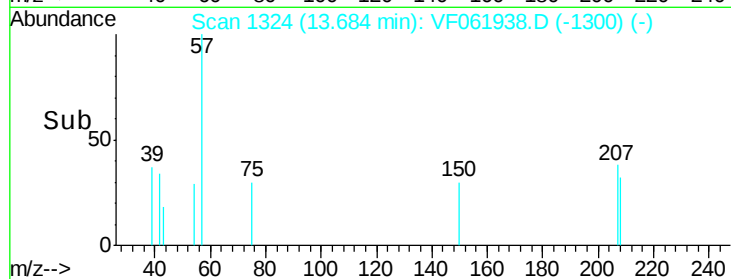
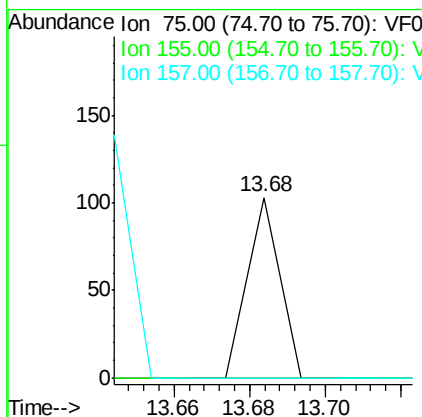
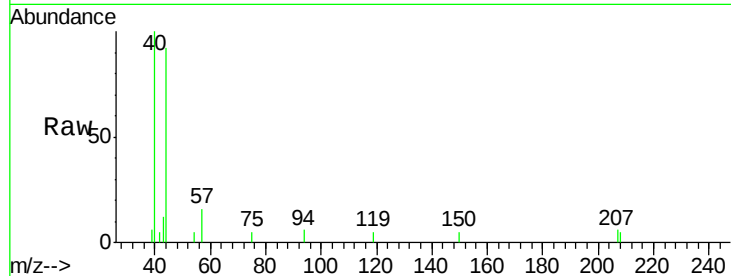




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.893 ug/l
 RT: 13.68 min Scan# 1324
 Delta R.T. 0.04 min
 Lab File: VF061938.D
 Acq: 14 Mar 2019 14:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0314SBL01

Tot Ion: 75 Resp: 61
 Ion Ratio Lower Upper
 75 100
 155 0.0 59.8 179.4#
 157 0.0 81.2 243.4#



#95
 Naphthalene
 Concen: 1.403 ug/l
 RT: 14.45 min Scan# 1402
 Delta R.T. -0.00 min
 Lab File: VF061938.D
 Acq: 14 Mar 2019 14:50

Tgt Ion: 128 Resp: 11836
 Ion Ratio Lower Upper
 128 100
 127 10.1 9.3 13.9
 129 11.2 8.8 13.2

