

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\
 Data File : VF059314.D
 Acq On : 26 Jun 2018 13:59
 Operator : VA/AP
 Sample : J3664-05RE
 Misc : 6.12g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 DUP-0482-180619RE

Quant Time: Jun 27 02:19:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	260481	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.74	114	400664	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.89	117	397202	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	264199	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	135433	40.24	ug/l	-0.01
Spiked Amount			Recovery	=	80.48%	
35) Dibromofluoromethane	4.27	113	126699	43.28	ug/l	-0.01
Spiked Amount			Recovery	=	86.56%	
50) Toluene-d8	7.69	98	293987	40.56	ug/l	-0.01
Spiked Amount			Recovery	=	81.12%	
62) 4-Bromofluorobenzene	11.49	95	174802	42.75	ug/l	-0.01
Spiked Amount			Recovery	=	85.50%	

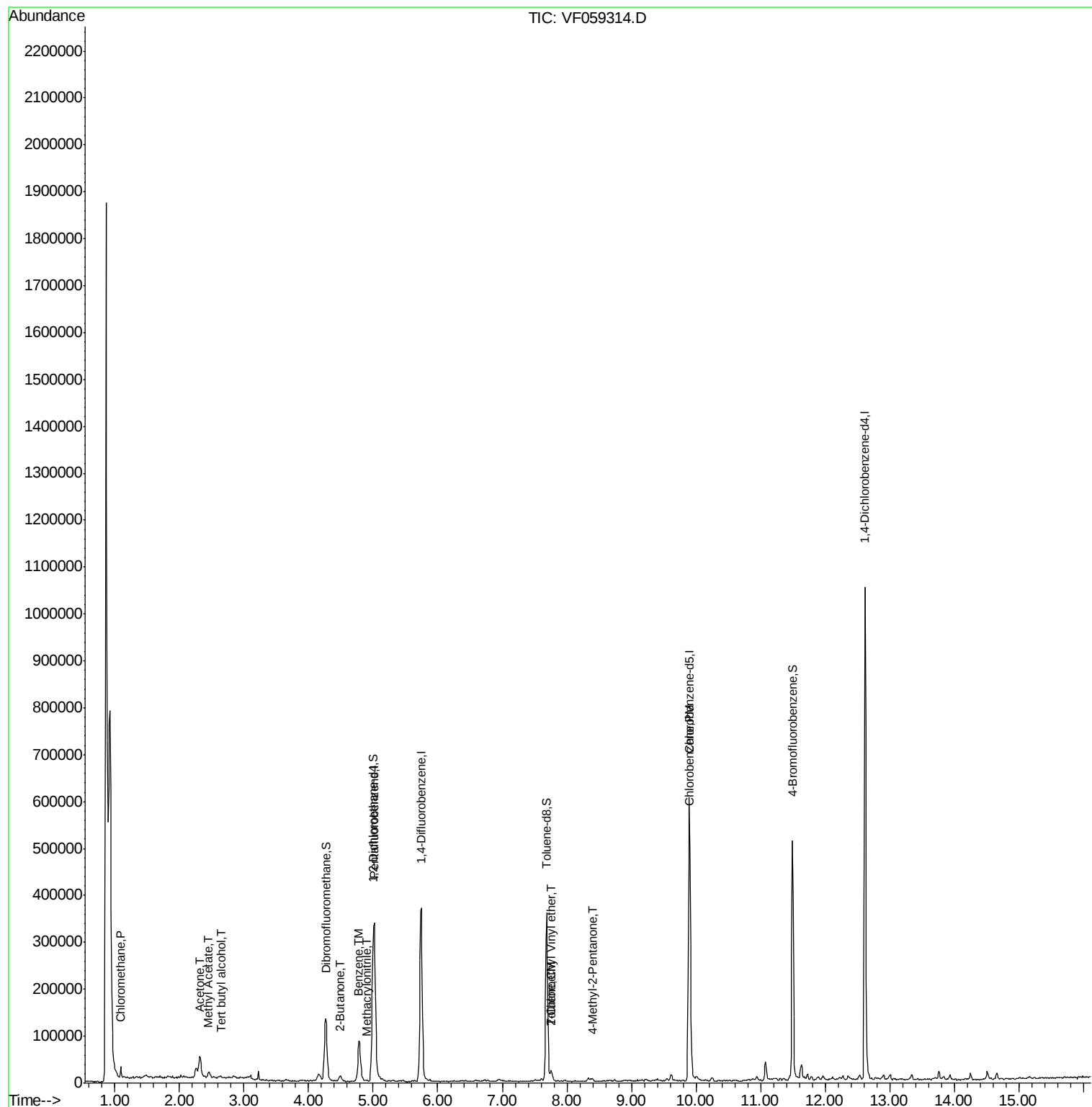
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	1807	1.130	ug/l #	73
5) Bromomethane	1.47	94	150	Below Cal		98
11) Tert butyl alcohol	2.66	59	809	3.611	ug/l #	66
13) Acrolein	1.97	56	250	Below Cal		99
16) Acetone	2.32	43	72953	79.857	ug/l	97
18) Methyl Acetate	2.46	43	5397	2.446	ug/l #	89
20) Methylene Chloride	2.27	84	8900	Below Cal	#	84
25) 2-Butanone	4.48	43	21107	18.185	ug/l	98
28) Bromochloromethane	3.96	49	60	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	499	Below Cal	#	44
37) Ethyl Acetate	4.29	43	516	Below Cal	#	26
40) Benzene	4.78	78	100305	12.925	ug/l	93
41) Methacrylonitrile	4.91	41	1311	1.098	ug/l #	66
49) 1,4-Dioxane	6.84	88	290	Below Cal	#	52
51) 4-Methyl-2-Pentanone	8.39	43	6693	3.099	ug/l #	82
52) Toluene	7.76	92	10185	1.754	ug/l	77
58) 2-Chloroethyl Vinyl ether	7.76	63	1978	9.443	ug/l	100
59) 2-Hexanone	9.61	43	12887	Below Cal		79
65) Chlorobenzene	9.91	112	48899	6.644	ug/l	97
87) 1,3-Dichlorobenzene	12.55	146	2305	Below Cal		95

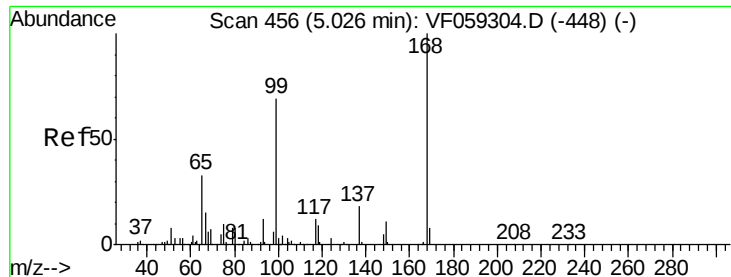
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Instrument :

MSVOA_F

ClientSampleId :

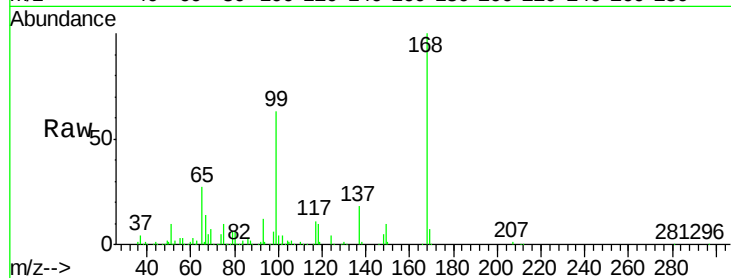
DUP-0482-180619RE

Tot Ion:168 Resp: 260481

Ion Ratio Lower Upper

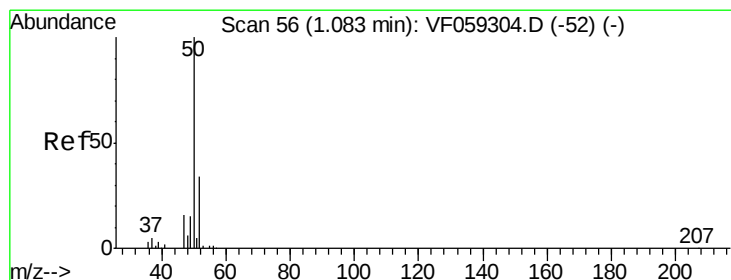
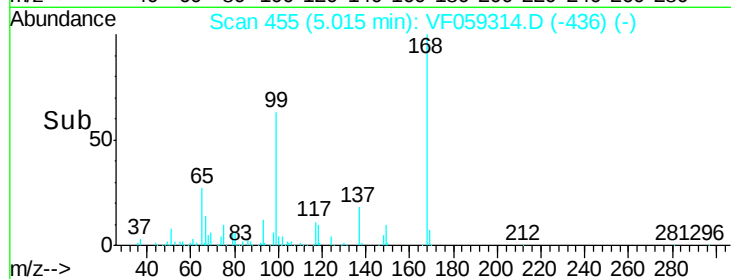
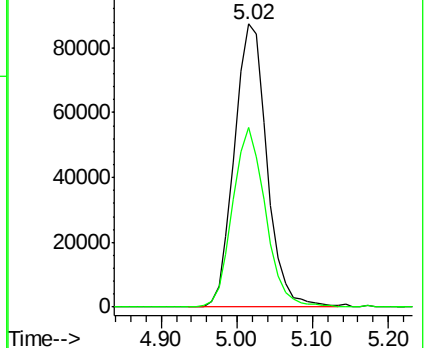
168 100

99 63.4 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.130 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059314.D

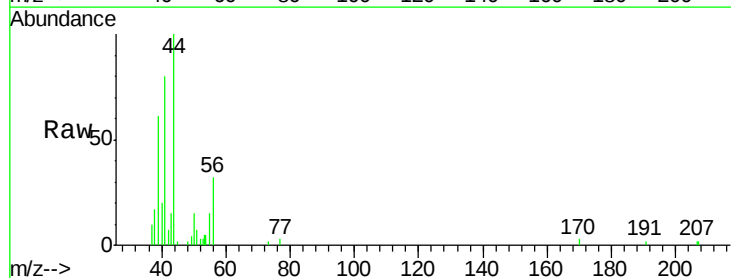
Acq: 26 Jun 2018 13:59

Tgt Ion: 50 Resp: 1807

Ion Ratio Lower Upper

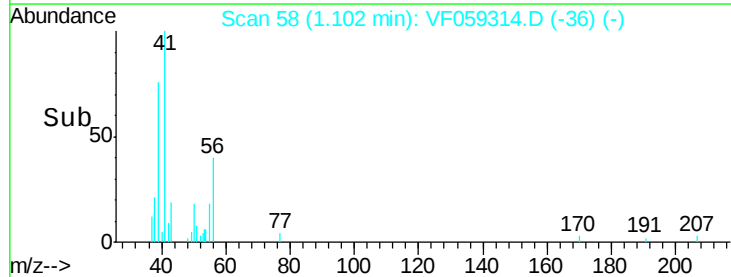
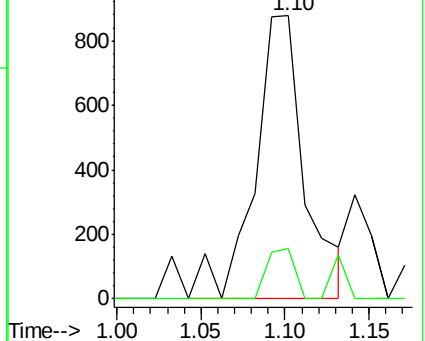
50 100

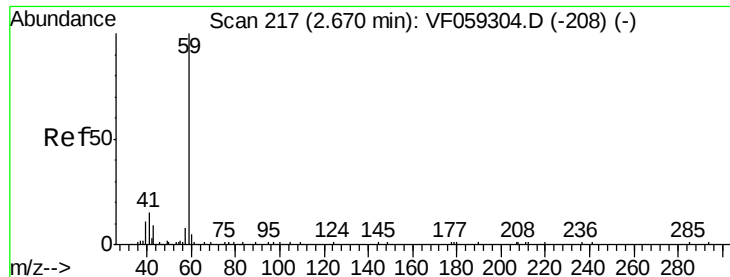
52 18.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

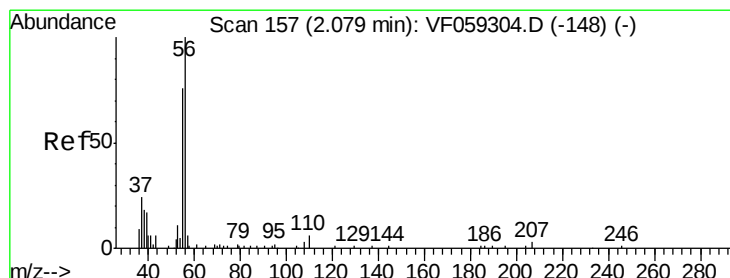
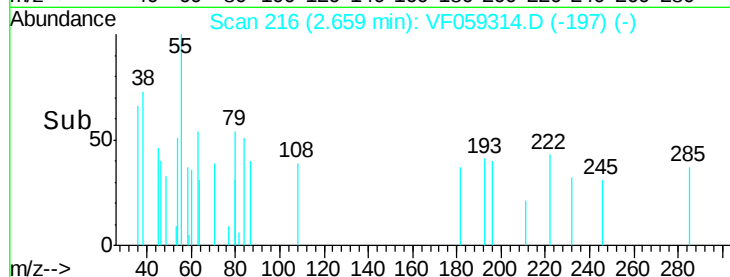
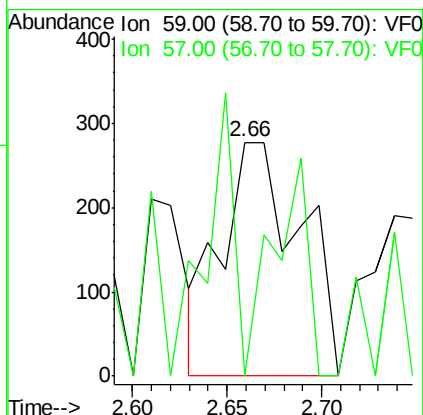
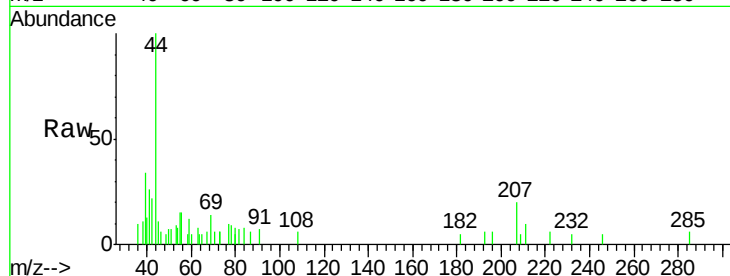




#11
Tert butyl alcohol
Concen: 3.611 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059314.D
Acq: 26 Jun 2018 13:59

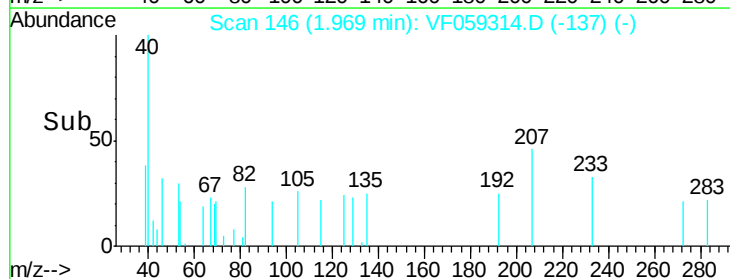
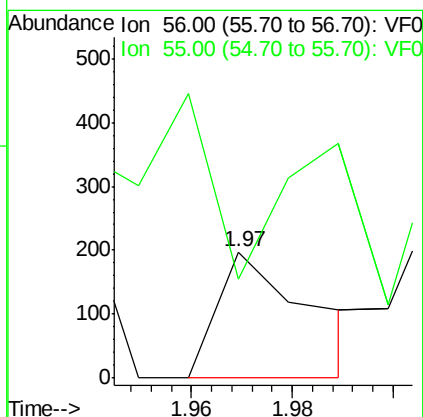
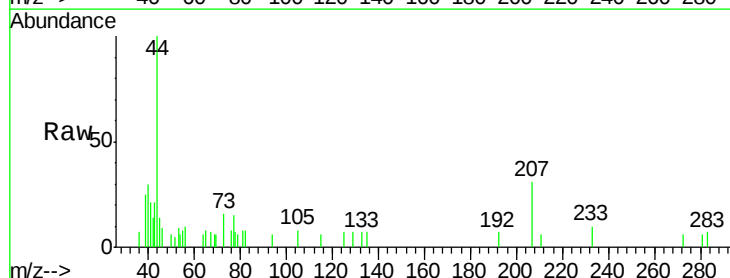
Instrument :
MSVOA_F
ClientSampleId :
DUP-0482-180619RE

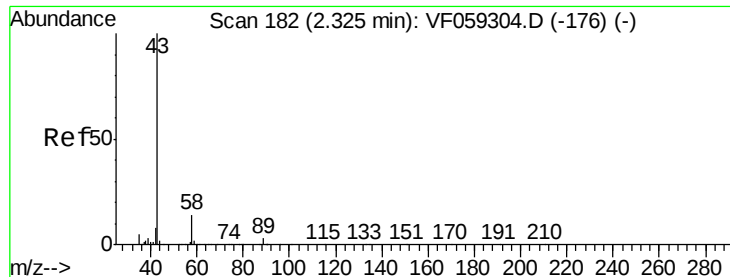
Tot Ion: 59 Resp: 809
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#



#13
Acrolein
Concen: Below Cal
RT: 1.97 min Scan# 146
Delta R.T. -0.11 min
Lab File: VF059314.D
Acq: 26 Jun 2018 13:59

Tgt Ion: 56 Resp: 250
Ion Ratio Lower Upper
56 100
55 78.7 62.4 93.6





#16

Acetone

Concen: 79.857 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Instrument :

MSVOA_F

ClientSampleId :

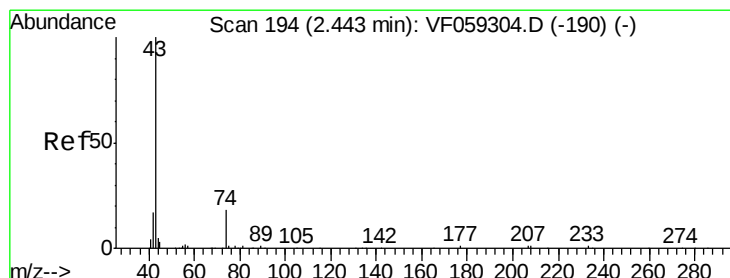
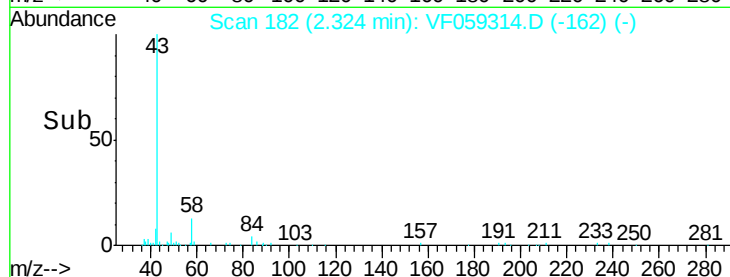
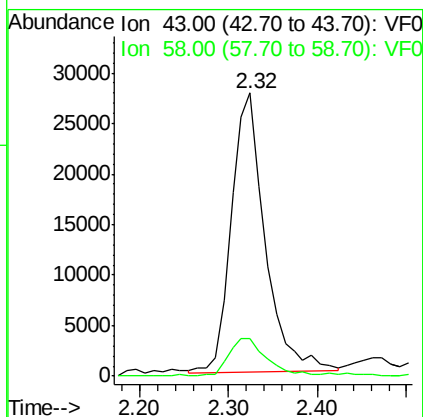
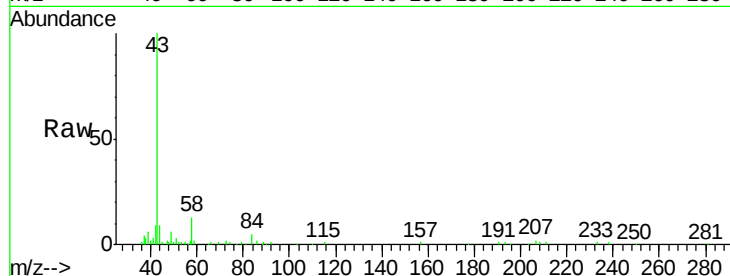
DUP-0482-180619RE

Tot Ion: 43 Resp: 72953

Ion Ratio Lower Upper

43 100

58 13.2 11.4 17.0



#18

Methyl Acetate

Concen: 2.446 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.02 min

Lab File: VF059314.D

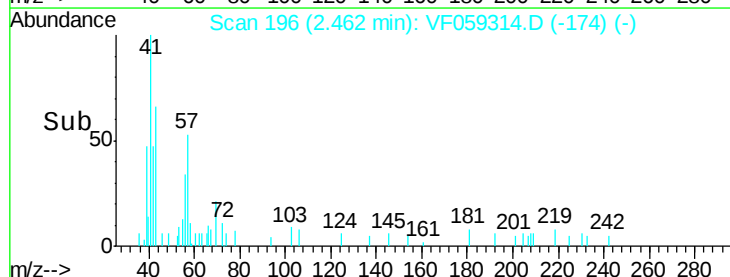
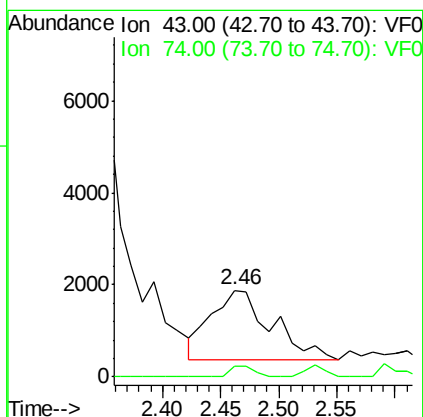
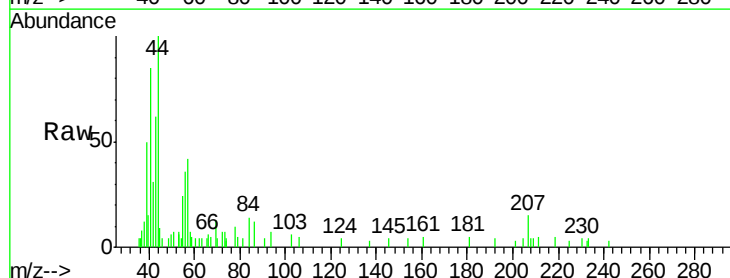
Acq: 26 Jun 2018 13:59

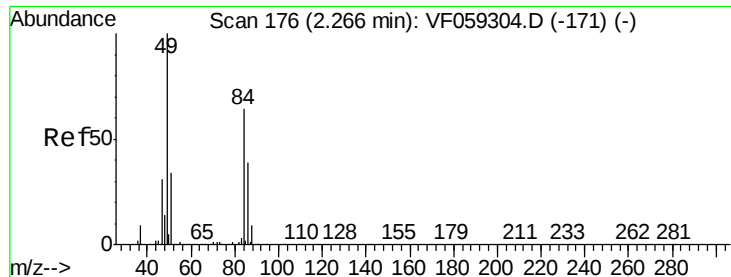
Tgt Ion: 43 Resp: 5397

Ion Ratio Lower Upper

43 100

74 11.7 13.3 19.9#

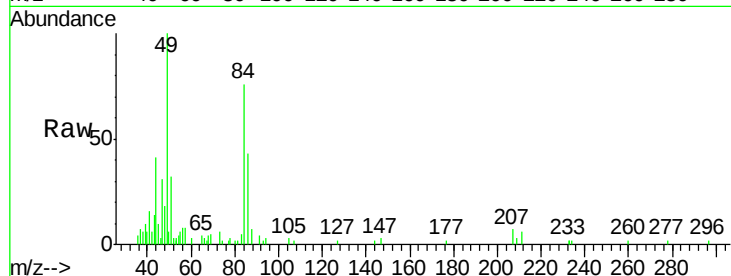




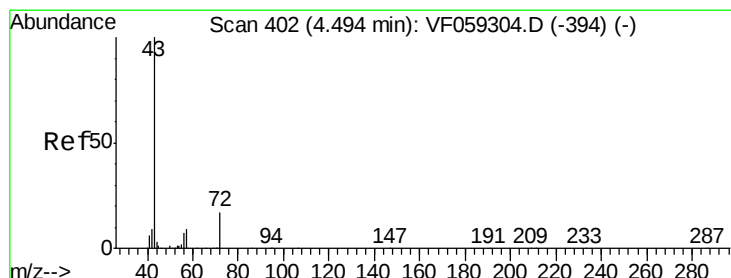
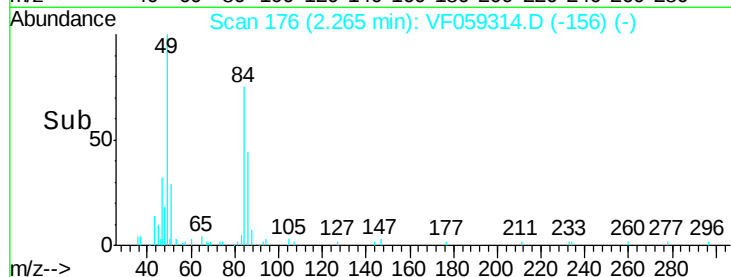
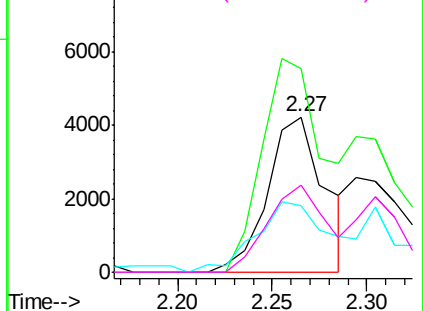
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059314.D
Acq: 26 Jun 2018 13:59

Instrument :
MSVOA_F
ClientSampleId :
DUP-0482-180619RE

Tot Ion: 84 Resp: 8900
Ion Ratio Lower Upper
84 100
49 131.3 126.5 189.7
51 42.6 42.9 64.3#
86 56.3 48.6 73.0

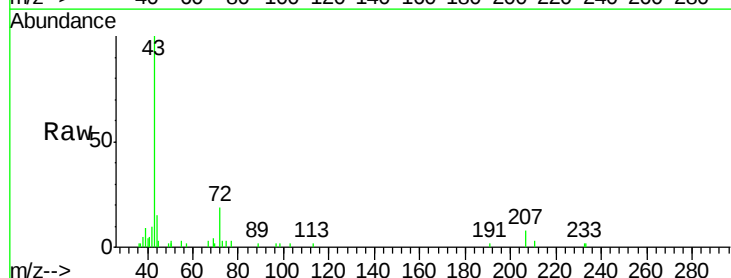


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

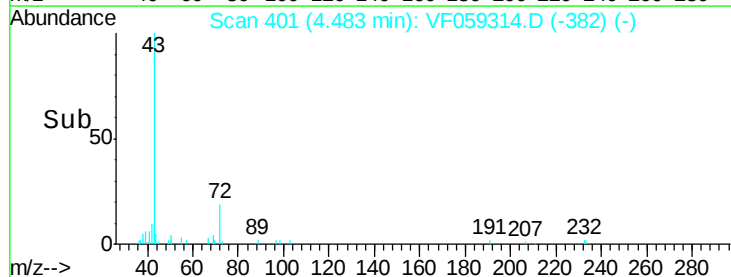
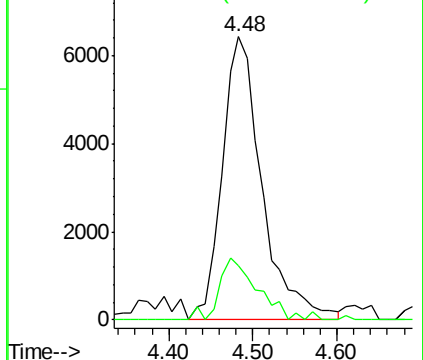


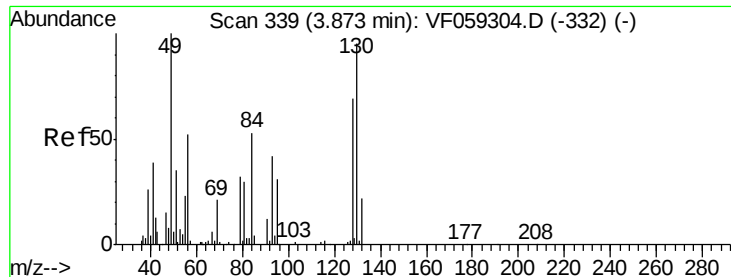
#25
2-Butanone
Concen: 18.185 ug/l
RT: 4.48 min Scan# 401
Delta R.T. -0.01 min
Lab File: VF059314.D
Acq: 26 Jun 2018 13:59

Tgt Ion: 43 Resp: 21107
Ion Ratio Lower Upper
43 100
72 19.0 14.4 21.6



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#28

Bromochloromethane

Concen: Below Cal

RT: 3.96 min Scan# 348

Delta R.T. 0.09 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Instrument :

MSVOA_F

ClientSampleId :

DUP-0482-180619RE

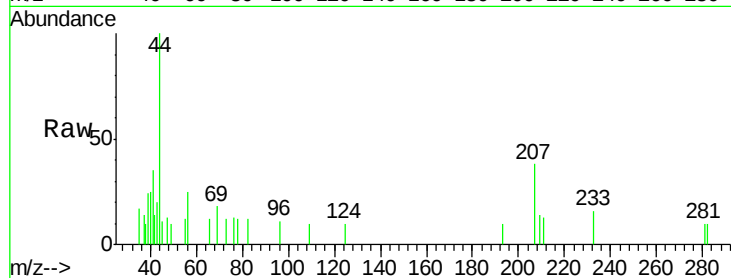
Tot Ion: 49 Resp: 60

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

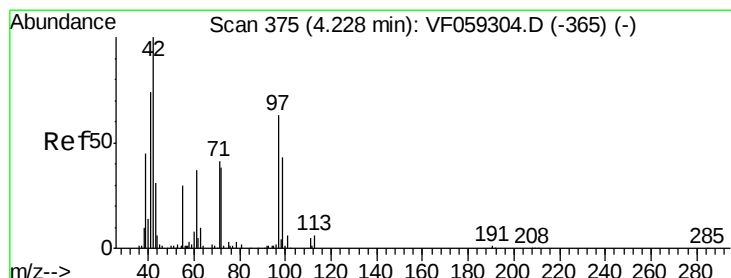
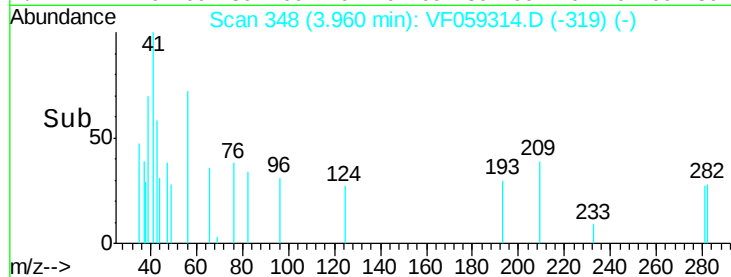
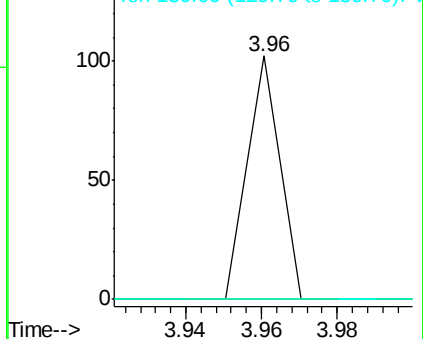
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.24 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

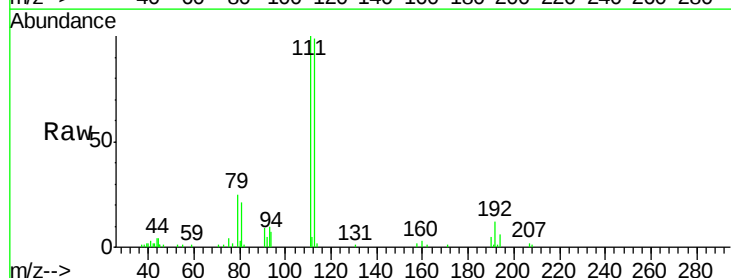
Tgt Ion: 42 Resp: 499

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

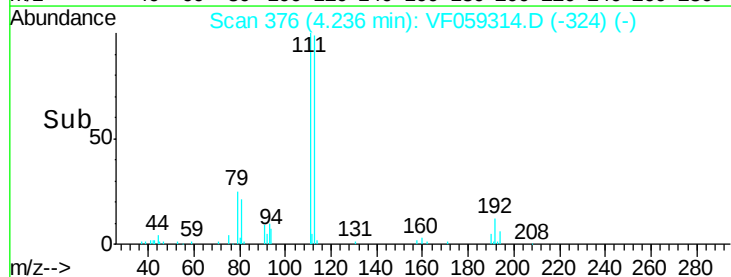
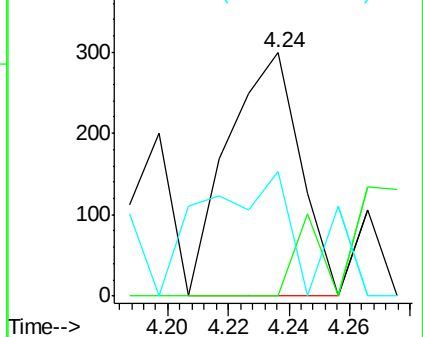
71 71.5 32.5 48.7#

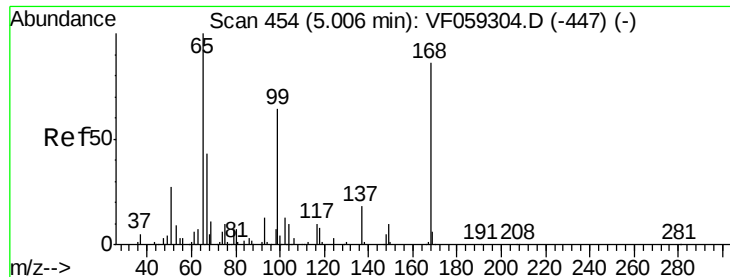


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 40.243 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Instrument :

MSVOA_F

ClientSampleId :

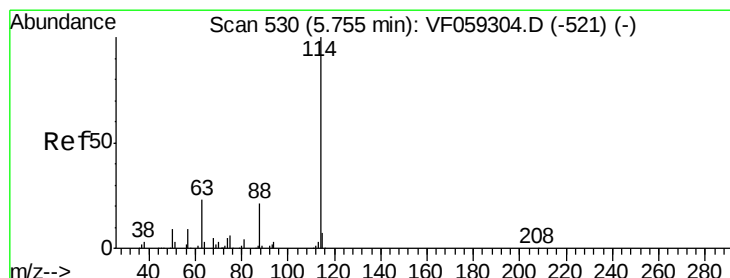
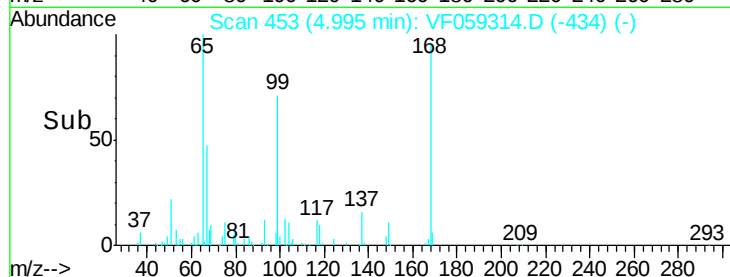
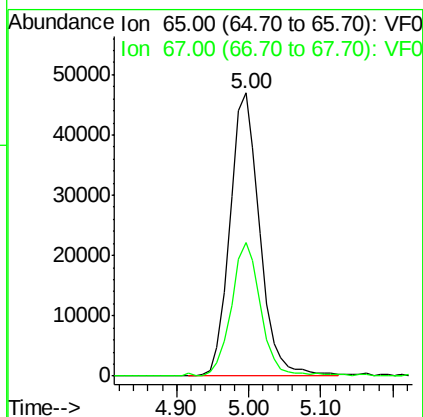
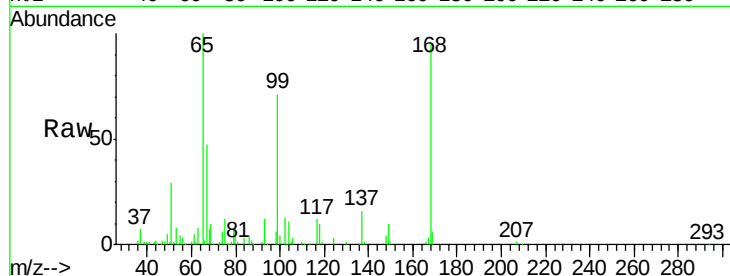
DUP-0482-180619RE

Tot Ion: 65 Resp: 135433

Ion Ratio Lower Upper

65 100

67 47.4 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

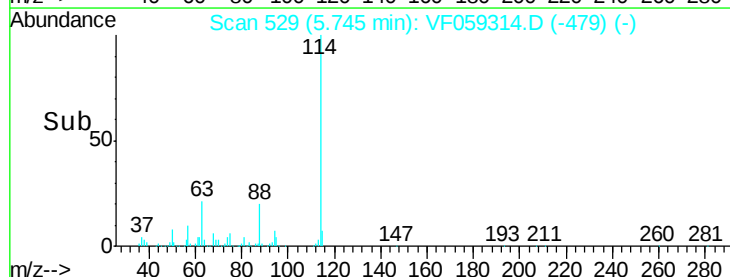
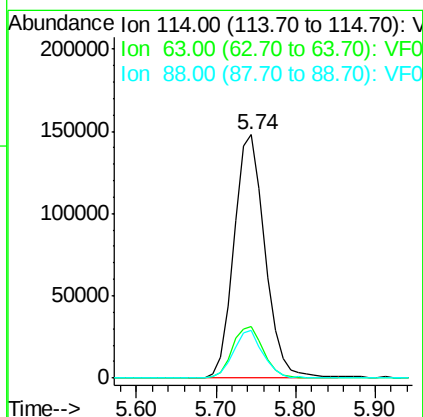
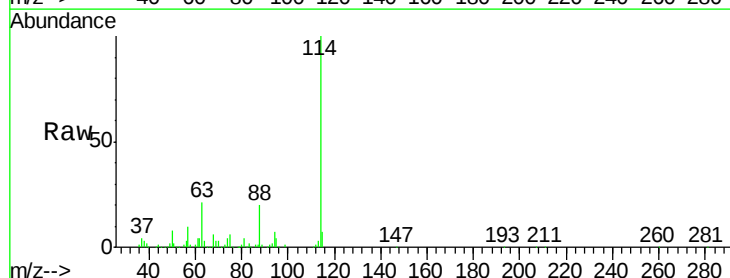
Tgt Ion: 114 Resp: 400664

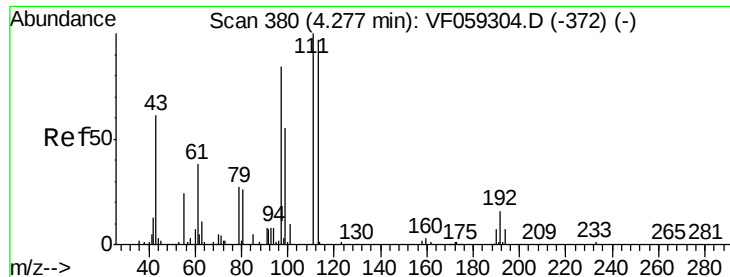
Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.8

88 19.8 0.0 41.2

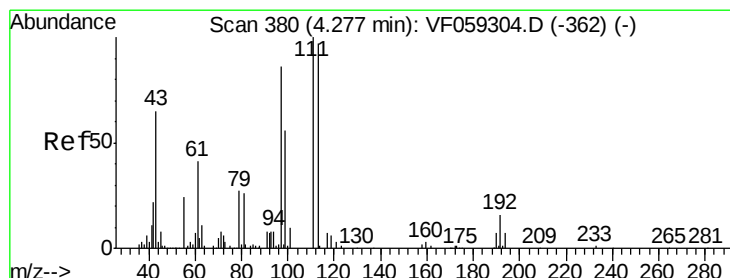
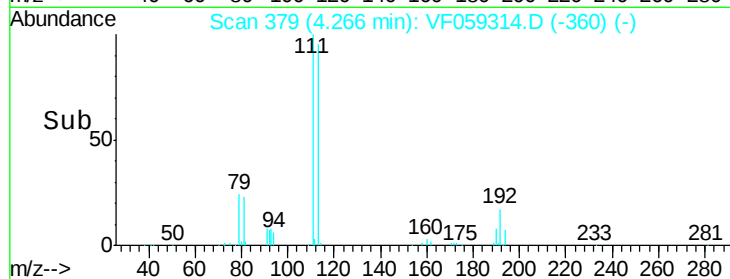
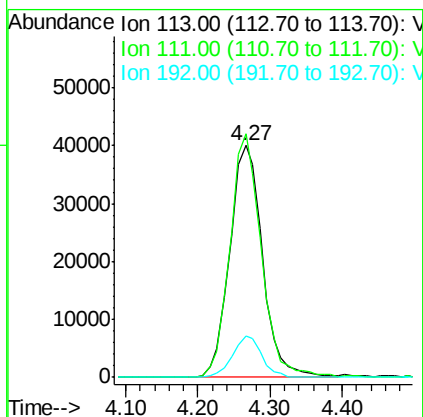
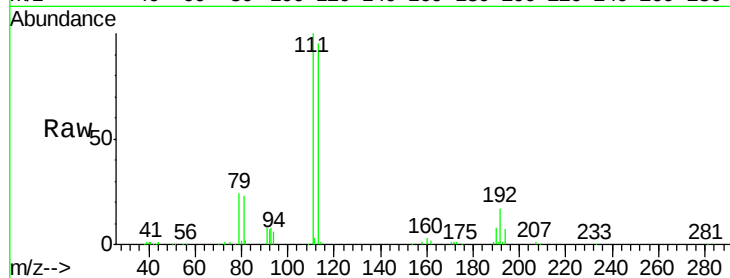




#35
 Dibromofluoromethane
 Concen: 43.279 ug/l
 RT: 4.27 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VF059314.D
 Acq: 26 Jun 2018 13:59

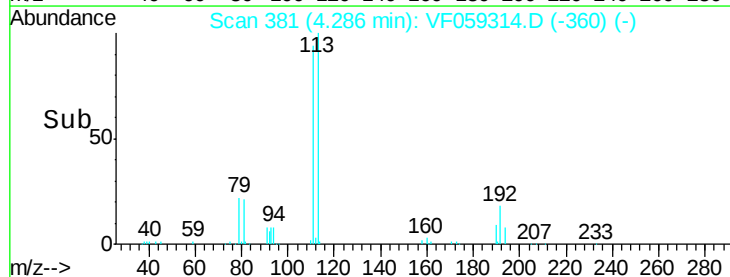
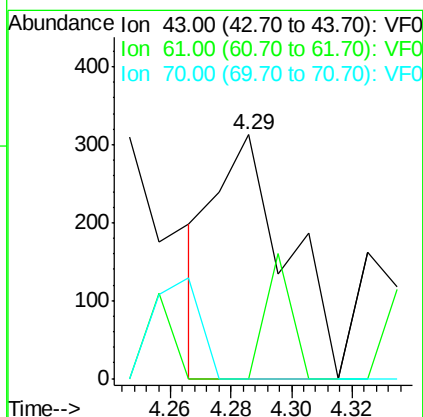
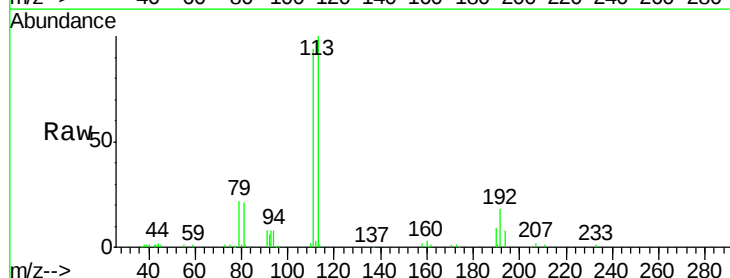
Instrument :
 MSVOA_F
 ClientSampleId :
 DUP-0482-180619RE

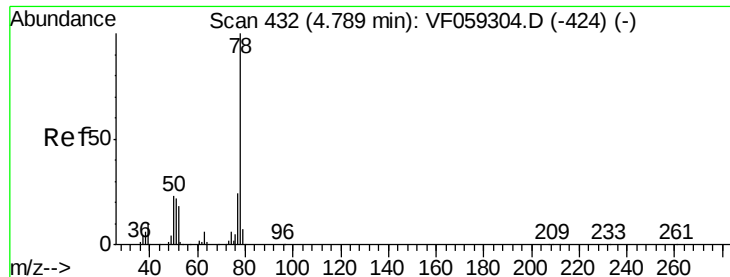
Tot Ion	Ratio	Lower	Upper
113	100		
111	108.1	82.1	123.1
192	18.1	13.0	19.6



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.29 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VF059314.D
 Acq: 26 Jun 2018 13:59

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	50.1	75.1#
70	0.0	6.2	9.4#





#40

Benzene

Concen: 12.925 ug/l

RT: 4.78 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Instrument :

MSVOA_F

ClientSampleId :

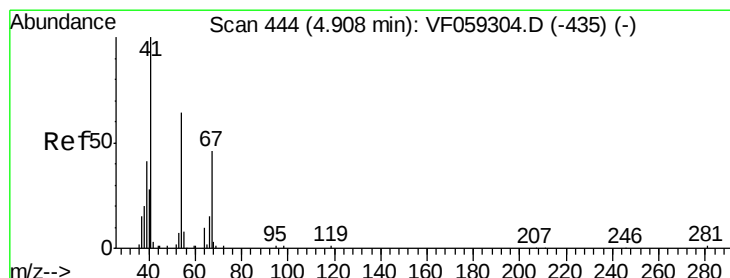
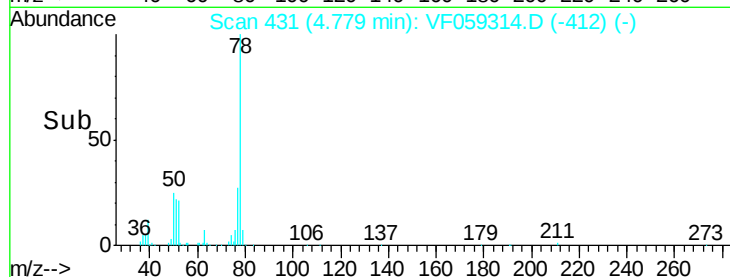
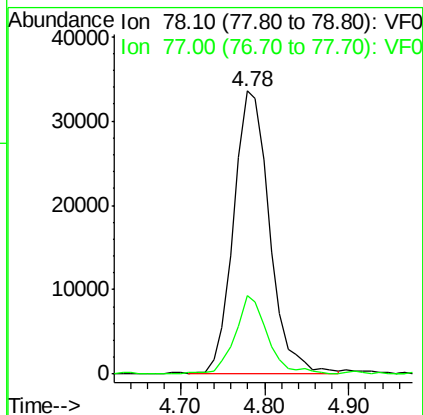
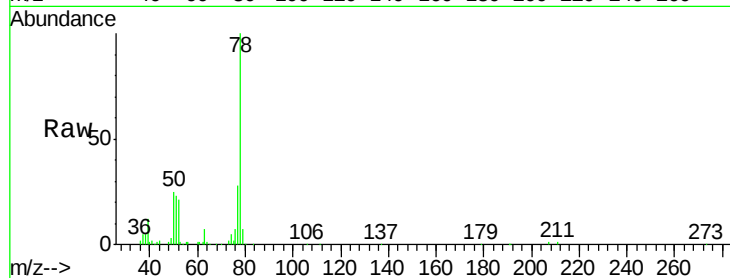
DUP-0482-180619RE

Tot Ion: 78 Resp: 100305

Ion Ratio Lower Upper

78 100

77 27.7 19.6 29.4



#41

Methacrylonitrile

Concen: 1.098 ug/l

RT: 4.91 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Tgt Ion: 41 Resp: 1311

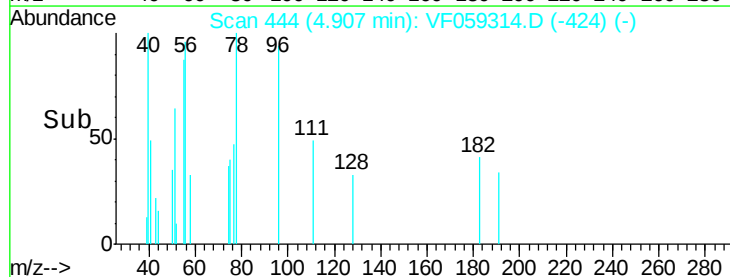
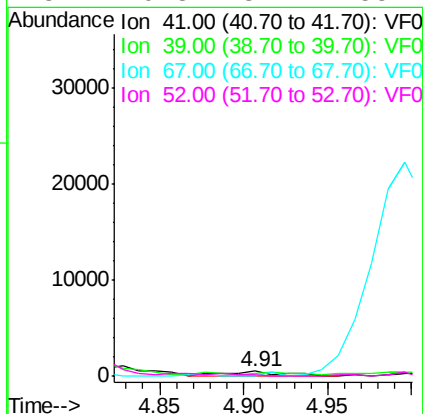
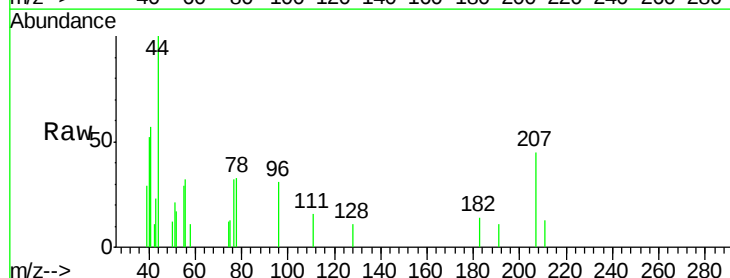
Ion Ratio Lower Upper

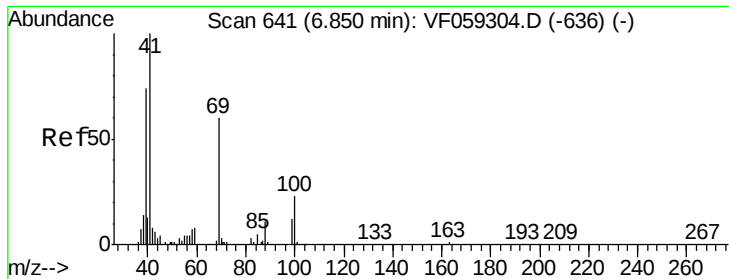
41 100

39 50.9 50.0 75.0

67 0.0 37.0 55.6#

52 29.8 37.1 55.7#

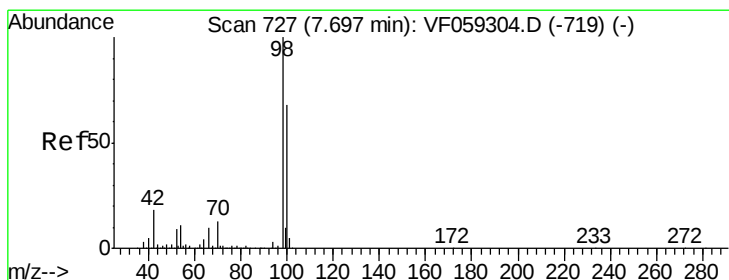
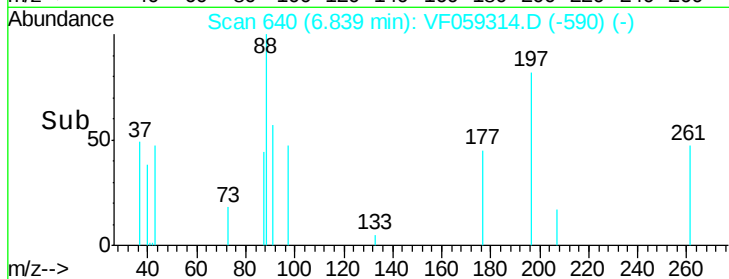
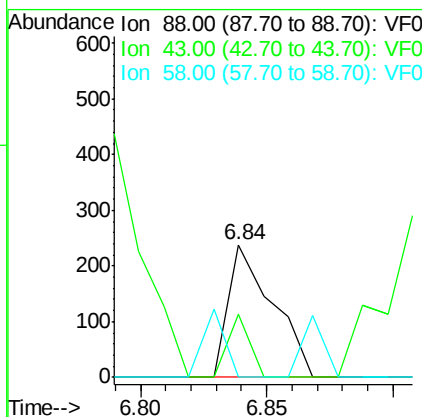
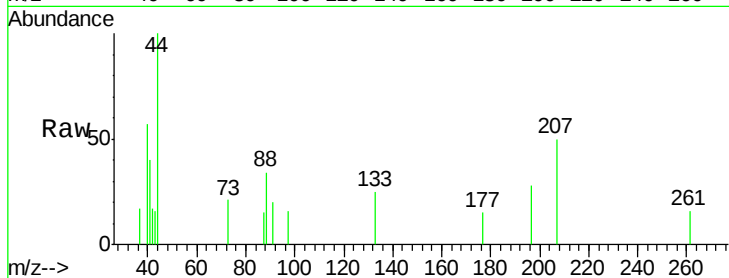




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.84 min Scan# 640
Delta R.T. -0.01 min
Lab File: VF059314.D
Acq: 26 Jun 2018 13:59

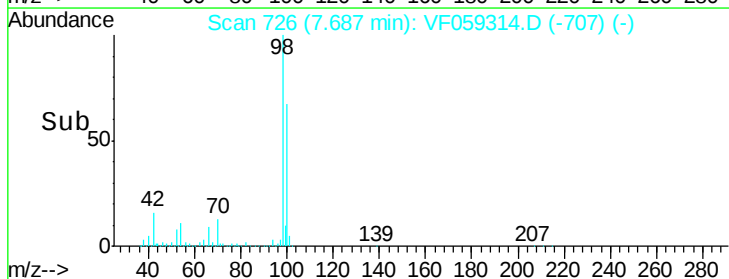
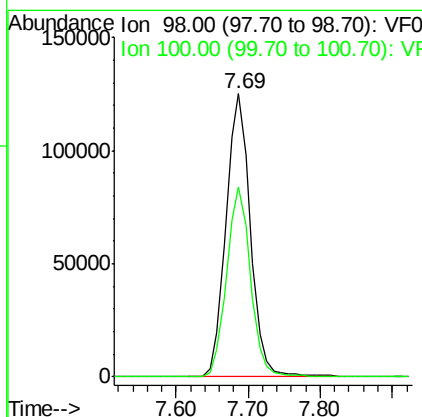
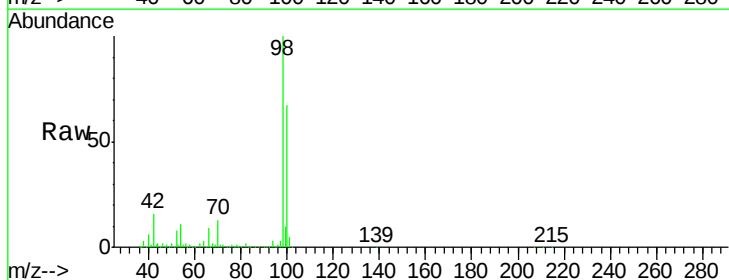
Instrument :
MSVOA_F
ClientSampleId :
DUP-0482-180619RE

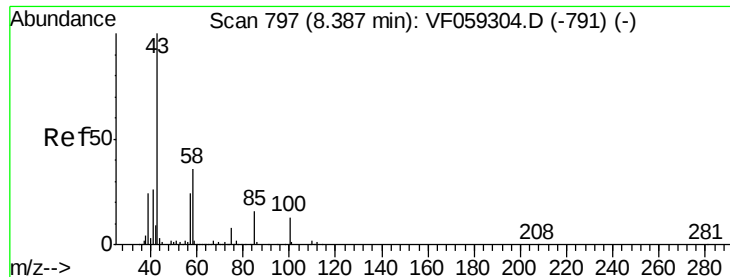
Tot Ion: 88 Resp: 290
Ion Ratio Lower Upper
88 100
43 47.5 50.6 75.8#
58 0.0 46.6 69.8#



#50
Toluene-d8
Concen: 40.560 ug/l
RT: 7.69 min Scan# 726
Delta R.T. -0.01 min
Lab File: VF059314.D
Acq: 26 Jun 2018 13:59

Tgt Ion: 98 Resp: 293987
Ion Ratio Lower Upper
98 100
100 67.2 54.6 82.0





#51

4-Methyl-2-Pentanone

Concen: 3.099 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Instrument :

MSVOA_F

ClientSampleId :

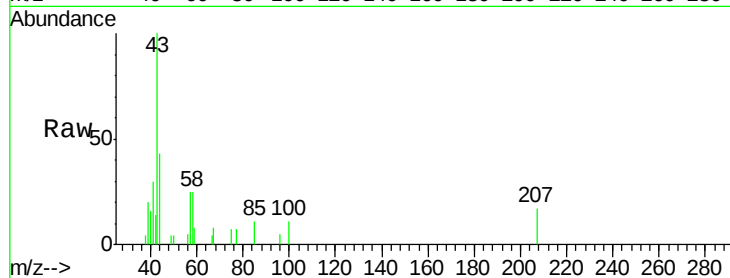
DUP-0482-180619RE

Tot Ion: 43 Resp: 6693

Ion Ratio Lower Upper

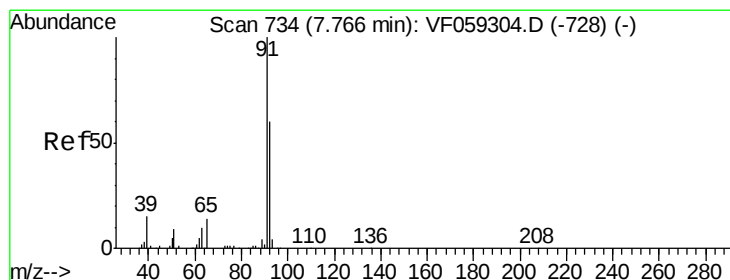
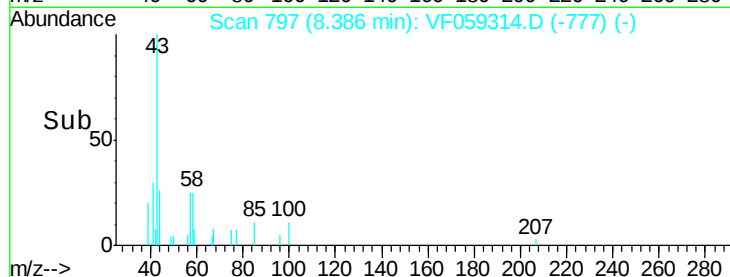
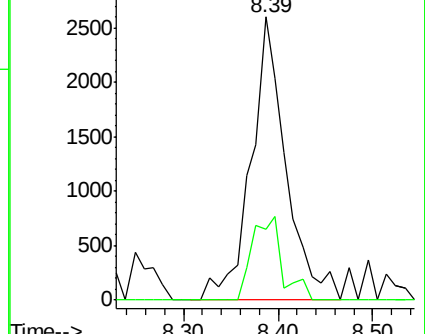
43 100

58 25.1 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.754 ug/l

RT: 7.76 min Scan# 733

Delta R.T. -0.01 min

Lab File: VF059314.D

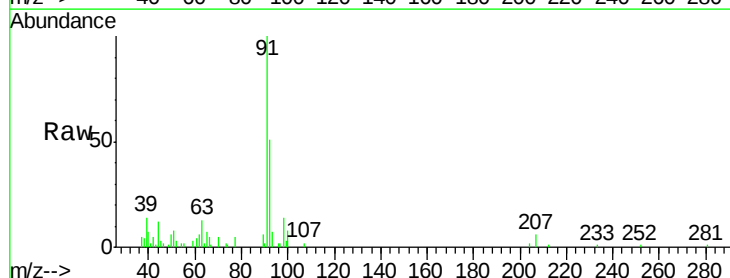
Acq: 26 Jun 2018 13:59

Tgt Ion: 92 Resp: 10185

Ion Ratio Lower Upper

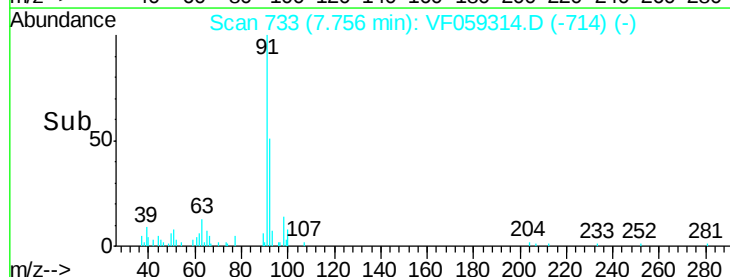
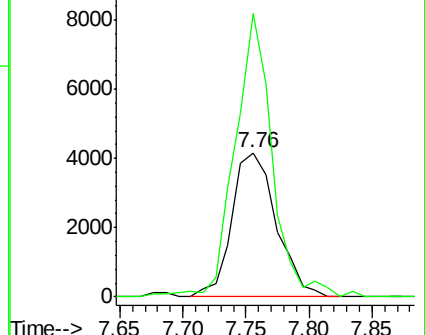
92 100

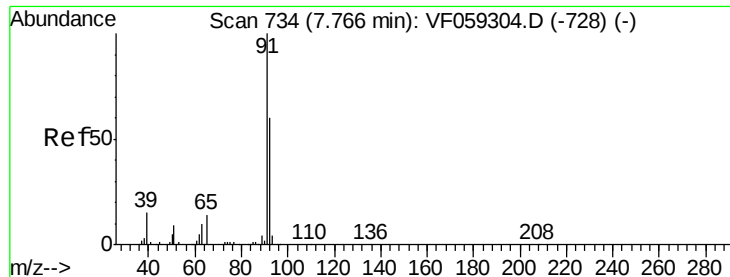
91 196.7 132.8 199.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

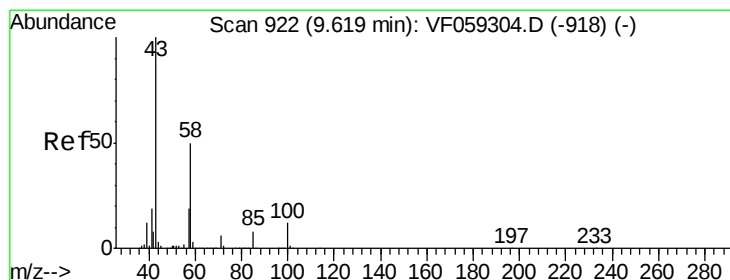
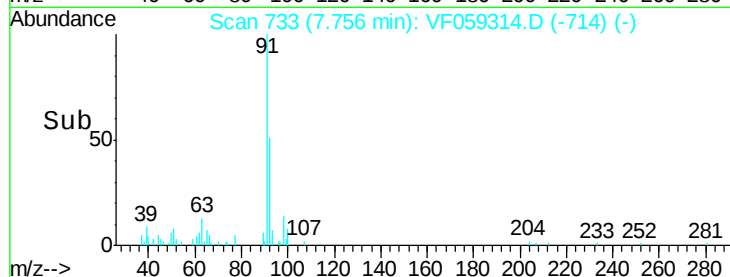
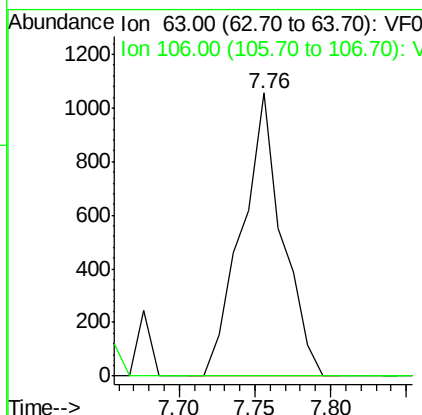
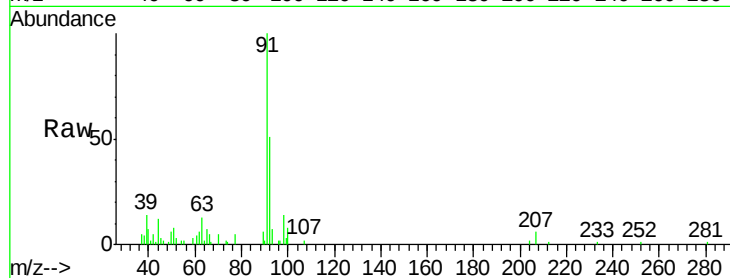




#58
 2-Chloroethyl Vinyl ether
 Concen: 9.443 ug/l
 RT: 7.76 min Scan# 733
 Delta R.T. -0.01 min
 Lab File: VF059314.D
 Acq: 26 Jun 2018 13:59

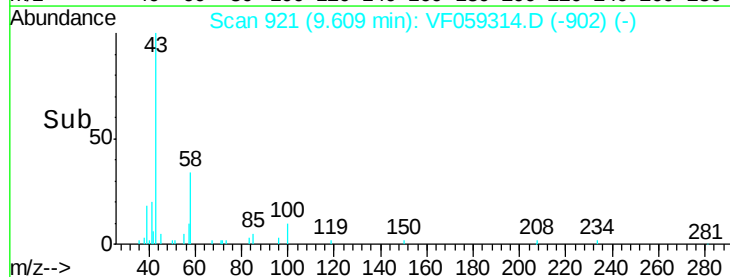
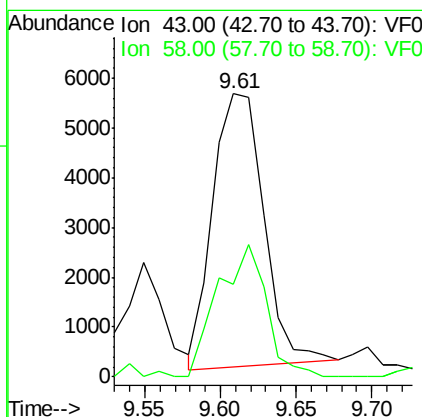
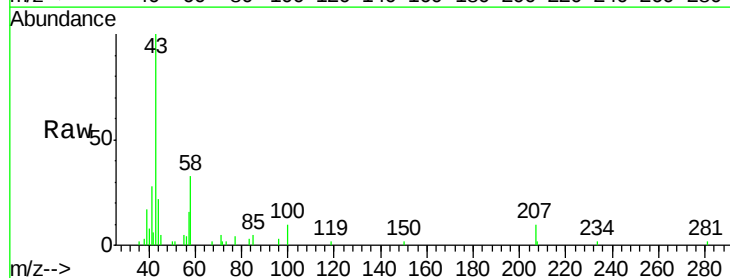
Instrument :
 MSVOA_F
 ClientSampleId :
 DUP-0482-180619RE

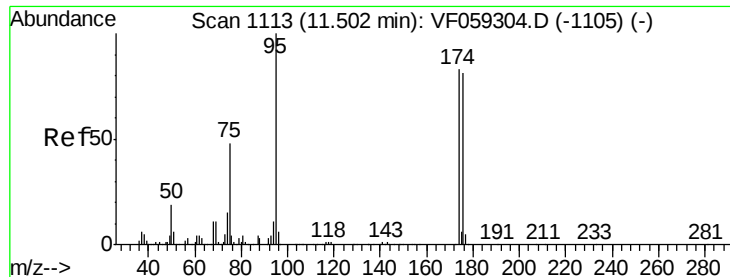
Tot Ion: 63 Resp: 1978
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.61 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: VF059314.D
 Acq: 26 Jun 2018 13:59

Tgt Ion: 43 Resp: 12887
 Ion Ratio Lower Upper
 43 100
 58 32.6 23.3 69.9





#62

4-Bromofluorobenzene

Concen: 42.753 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Instrument :

MSVOA_F

ClientSampleId :

DUP-0482-180619RE

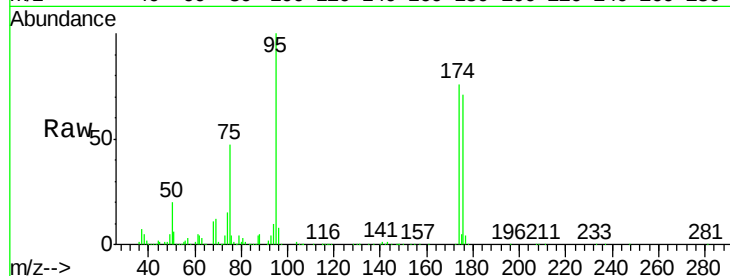
Tot Ion: 95 Resp: 174802

Ion Ratio Lower Upper

95 100

174 75.6 0.0 165.2

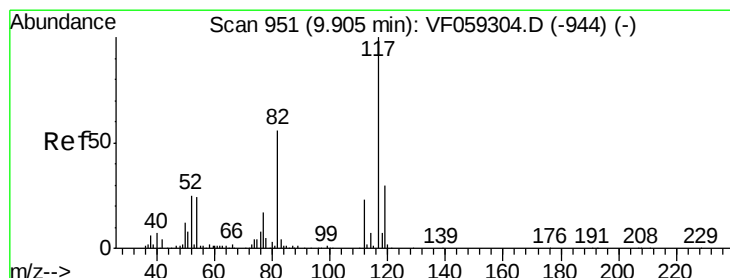
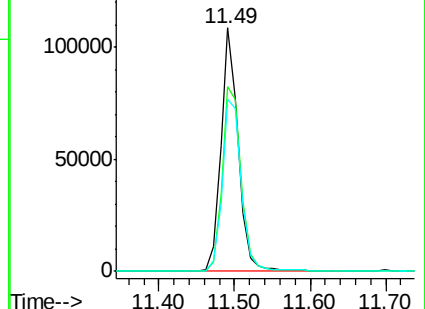
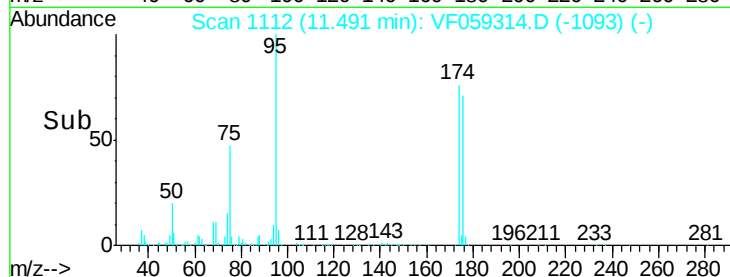
176 70.6 0.0 161.0



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: 9.89 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

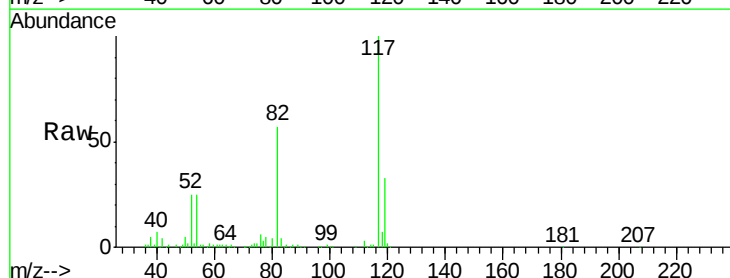
Tgt Ion: 117 Resp: 397202

Ion Ratio Lower Upper

117 100

82 57.0 44.6 66.8

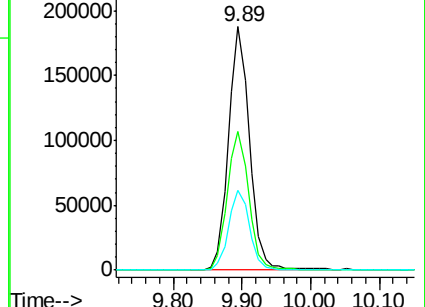
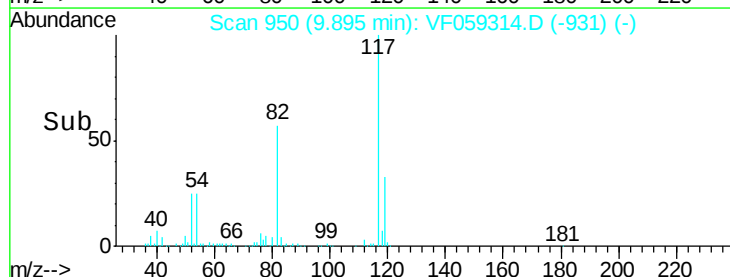
119 32.5 24.1 36.1

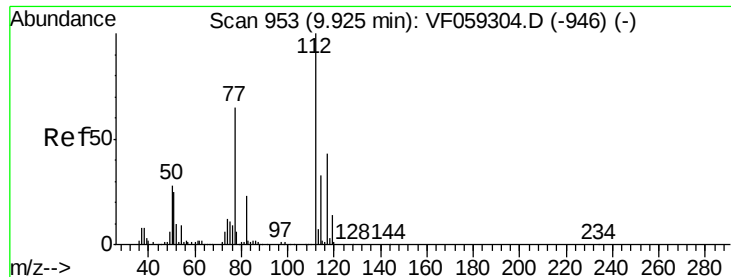


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

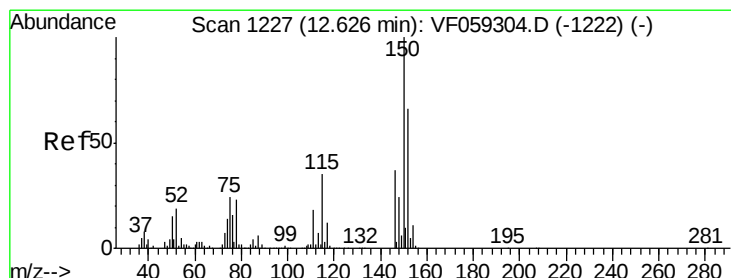
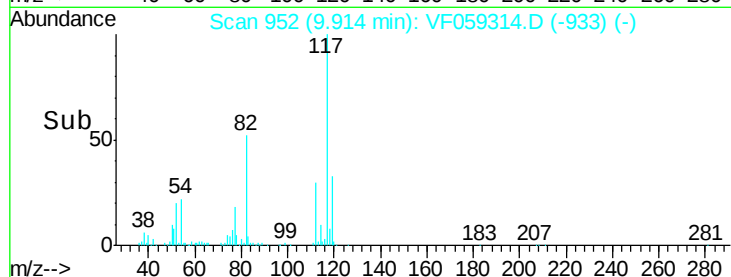
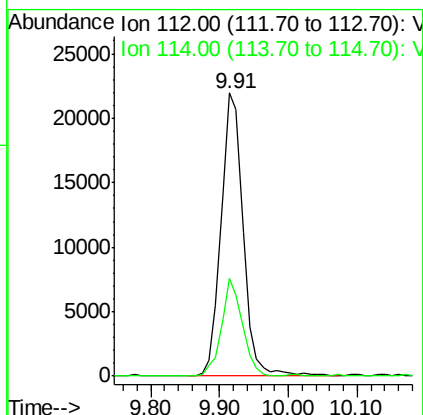
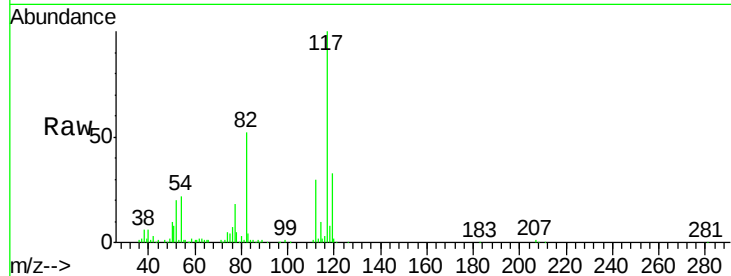




#65
Chlorobenzene
Concen: 6.644 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF059314.D
Acq: 26 Jun 2018 13:59

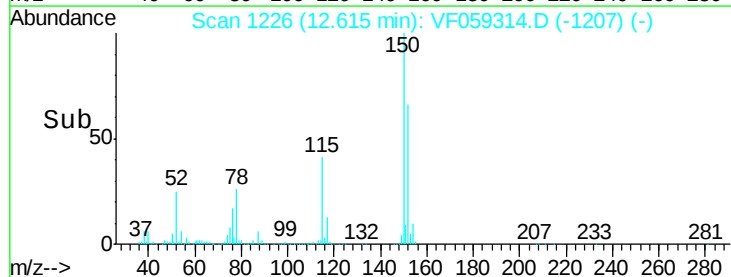
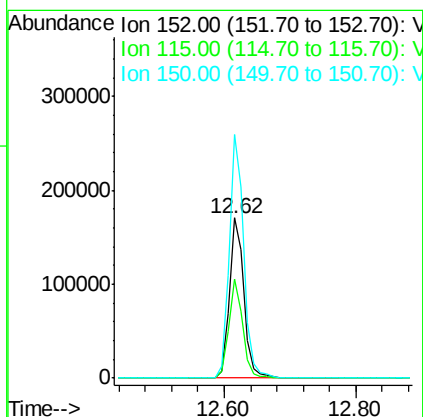
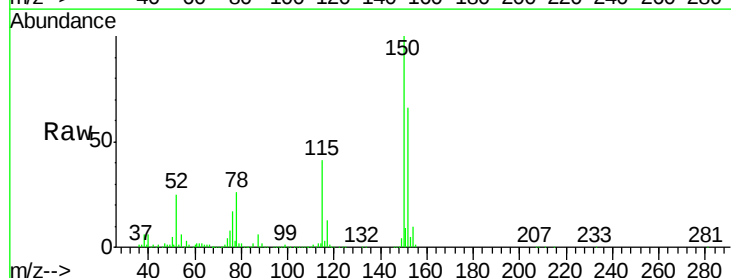
Instrument :
MSVOA_F
ClientSampleId :
DUP-0482-180619RE

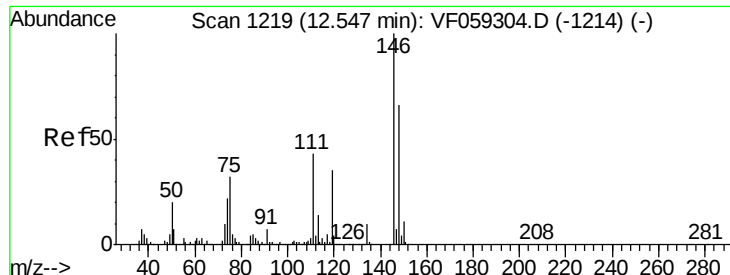
Tot Ion:112 Resp: 48899
Ion Ratio Lower Upper
112 100
114 34.7 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059314.D
Acq: 26 Jun 2018 13:59

Tgt Ion:152 Resp: 264199
Ion Ratio Lower Upper
152 100
115 62.0 27.1 81.3
150 152.0 0.0 305.2





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF059314.D

Acq: 26 Jun 2018 13:59

Instrument :

MSVOA_F

ClientSampleId :

DUP-0482-180619RE

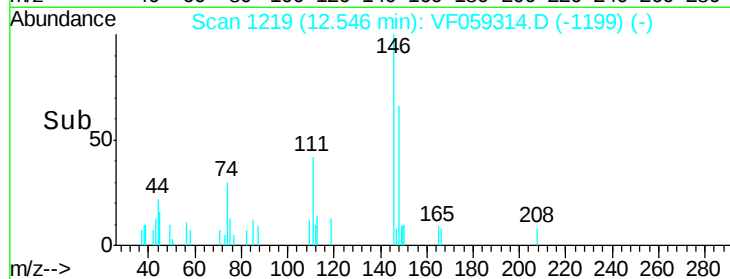
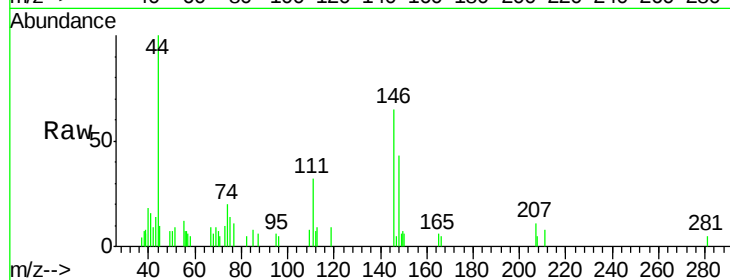
Tot Ion:146 Resp: 2305

Ion Ratio Lower Upper

146 100

111 49.1 21.4 64.2

148 66.4 32.8 98.4



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

