

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059393.D
 Acq On : 2 Jul 2018 18:04
 Operator : VA/AP
 Sample : J3802-07
 Misc : 6.50µ/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-7(3.0)

Quant Time: Jul 03 01:10:05 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	5.03	168	175099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	297920	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	293645	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	173146	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	169776	75.05	ug/l	0.00
Spiked Amount			Recovery	=	150.10%	
35) Dibromofluoromethane	4.28	113	145013	66.62	ug/l	0.00
Spiked Amount			Recovery	=	133.24%	
50) Toluene-d8	7.69	98	345021	64.02	ug/l	0.00
Spiked Amount			Recovery	=	128.04%	
62) 4-Bromofluorobenzene	11.49	95	180257	59.29	ug/l	0.00
Spiked Amount			Recovery	=	118.58%	

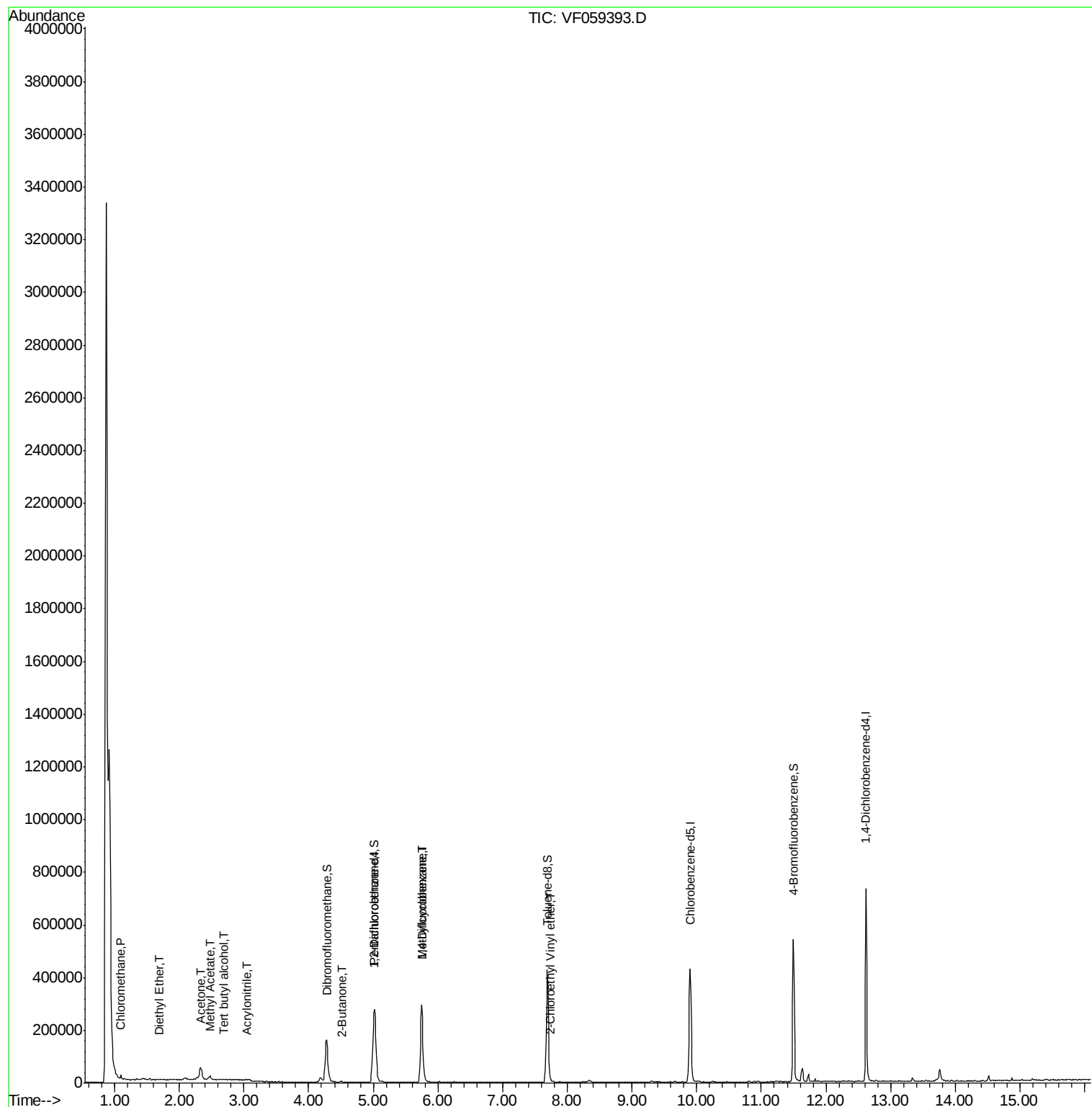
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	1179	1.10	ug/l	99
5) Bromomethane	1.27	94	699	Below	Cal	86
8) Diethyl Ether	1.70	74	567	1.06	ug/l	91
11) Tert butyl alcohol	2.68	59	1209	8.03	ug/l #	66
13) Acrolein	2.14	56	624	Below	Cal	85
15) Acrylonitrile	3.04	53	880	3.32	ug/l #	53
16) Acetone	2.33	43	68295	115.39	ug/l	95
18) Methyl Acetate	2.47	43	10566	9.40	ug/l #	78
20) Methylene Chloride	2.27	84	3230	Below	Cal #	61
25) 2-Butanone	4.51	43	6547	6.90	ug/l #	86
28) Bromochloromethane	3.85	49	68	Below	Cal #	6
29) Tetrahydrofuran	4.20	42	266	Below	Cal #	59
37) Ethyl Acetate	4.28	43	405	Below	Cal #	26
39) Methylcyclohexane	5.75	83	4396	1.91	ug/l #	32
49) 1,4-Dioxane	6.88	88	67	Below	Cal #	38
58) 2-Chloroethyl Vinyl ether	7.75	63	462	2.97	ug/l	100
59) 2-Hexanone	9.60	43	427	Below	Cal #	30
87) 1,3-Dichlorobenzene	12.54	146	219	Below	Cal #	71

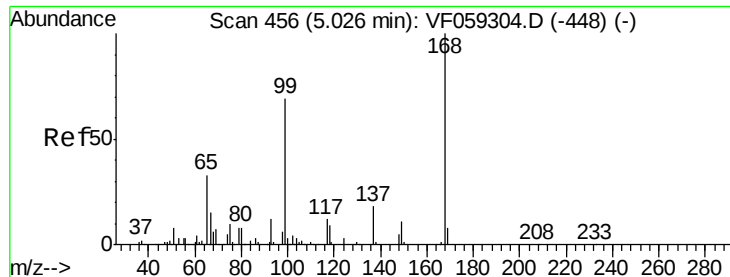
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

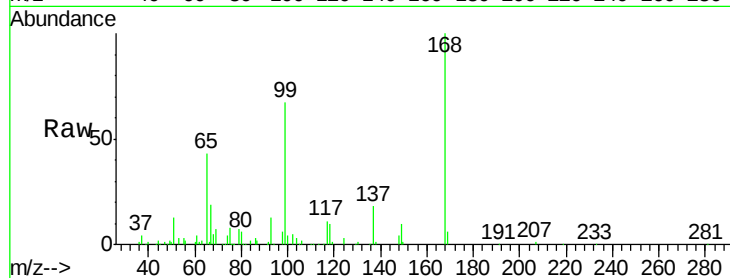
CF-7(3.0)

Tot Ion:168 Resp: 175099

Ion Ratio Lower Upper

168 100

99 67.4 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

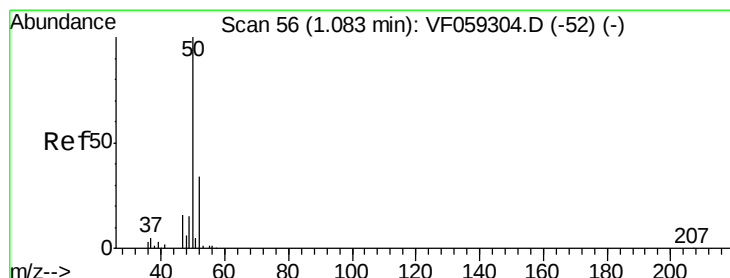
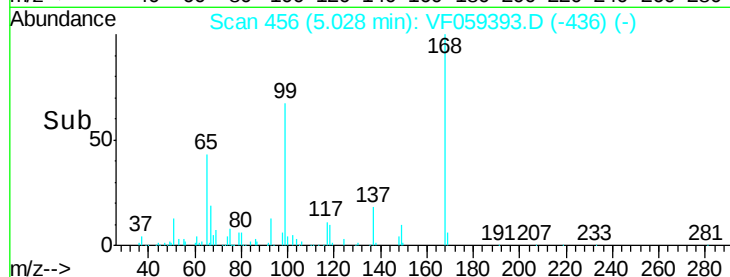
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 1.10 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059393.D

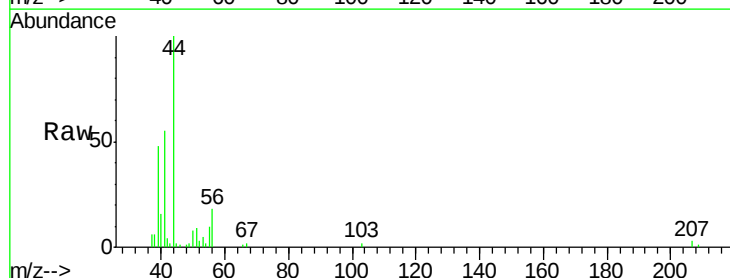
Acq: 2 Jul 2018 18:04

Tgt Ion: 50 Resp: 1179

Ion Ratio Lower Upper

50 100

52 32.6 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.10

800

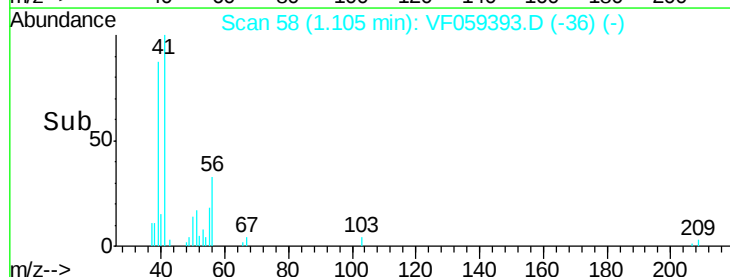
600

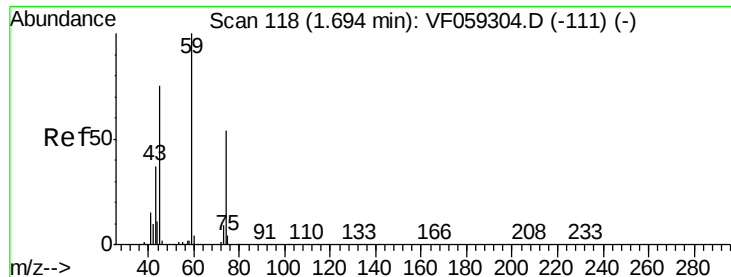
400

200

0

Time-->





#8

Diethyl Ether

Concen: 1.06 ug/l

RT: 1.70 min Scan# 118

Delta R.T. 0.00 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

Instrument :

MSVOA_F

ClientSampled :

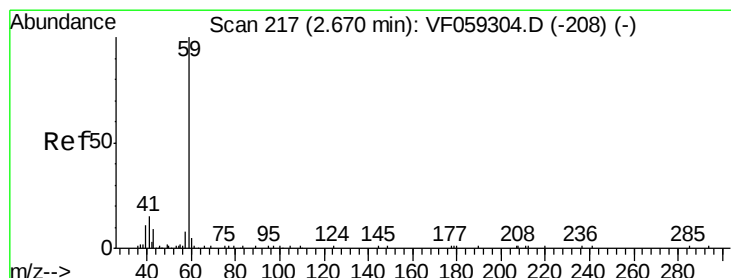
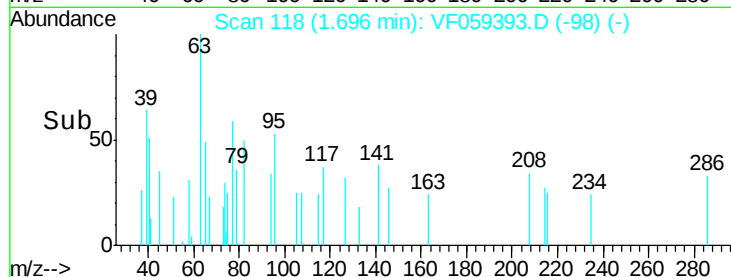
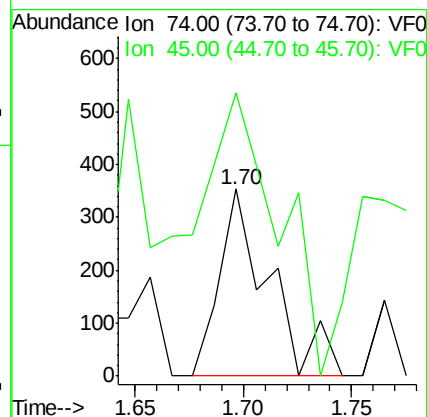
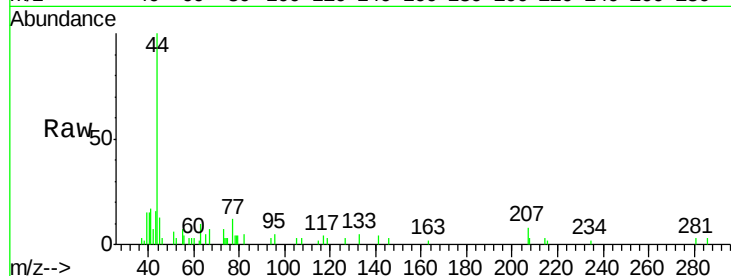
CF-7(3.0)

Tot Ion: 74 Resp: 567

Ion Ratio Lower Upper

74 100

45 151.1 70.0 210.0



#11

Tert butyl alcohol

Concen: 8.03 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059393.D

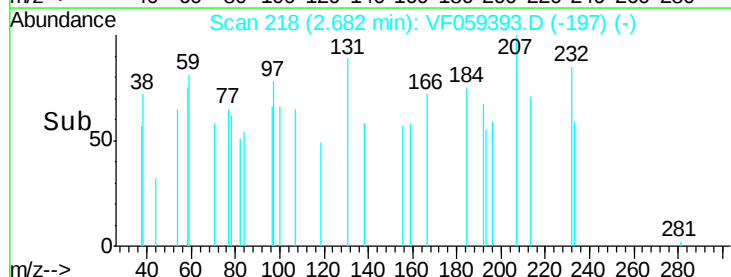
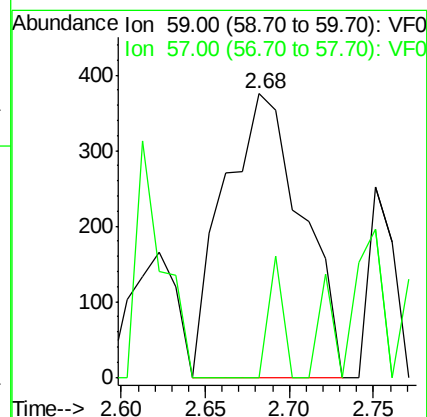
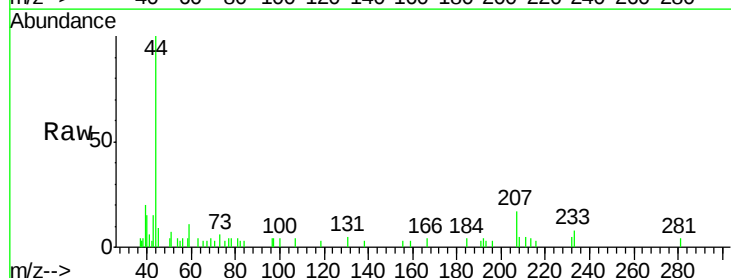
Acq: 2 Jul 2018 18:04

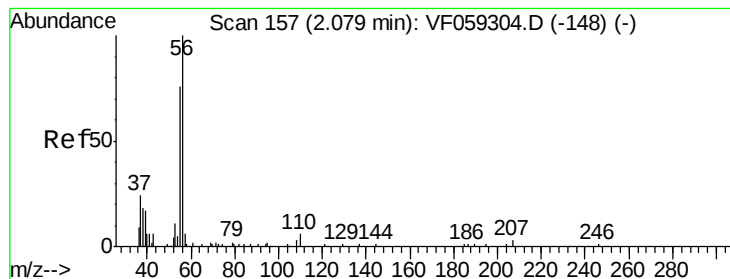
Tgt Ion: 59 Resp: 1209

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#





#13

Acrolein

Concen: Below Cal

RT: 2.14 min Scan# 163

Delta R.T. 0.06 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

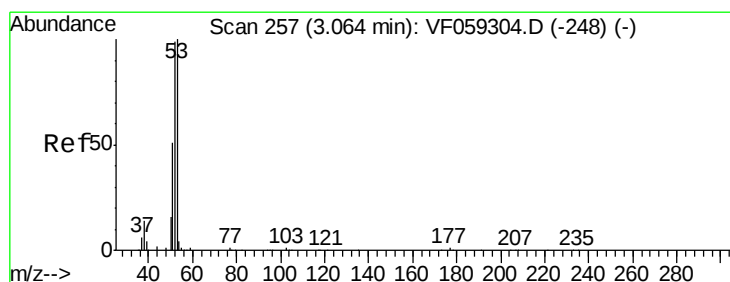
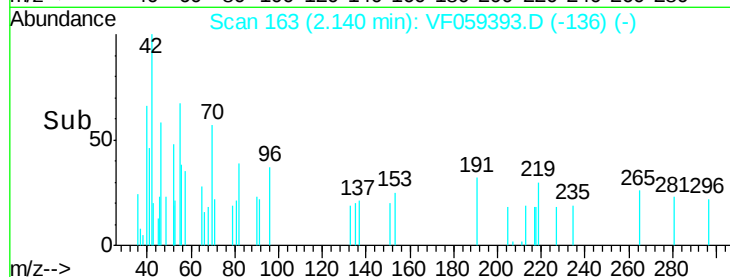
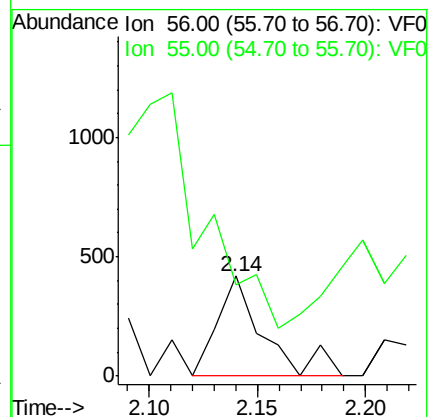
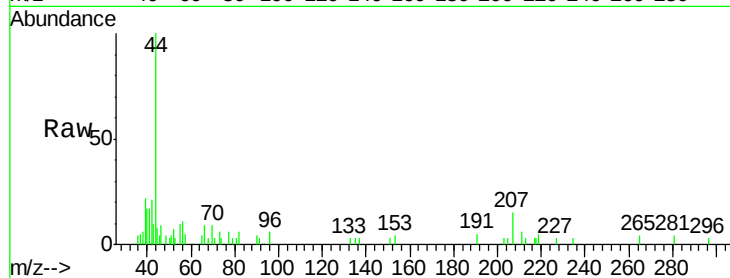
CF-7(3.0)

Tot Ion: 56 Resp: 624

Ion Ratio Lower Upper

56 100

55 91.4 62.4 93.6



#15

Acrylonitrile

Concen: 3.32 ug/l

RT: 3.04 min Scan# 254

Delta R.T. -0.03 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

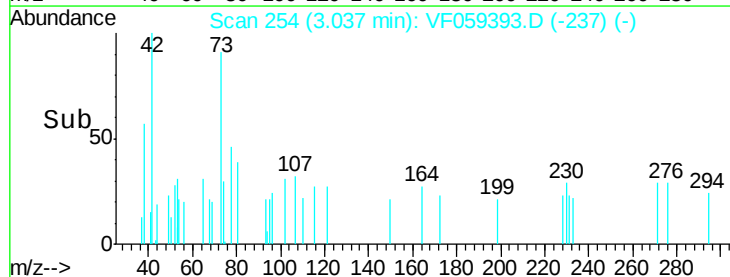
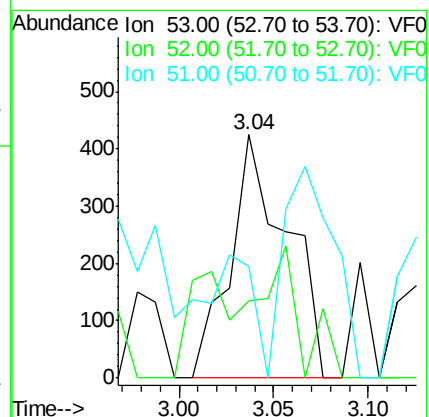
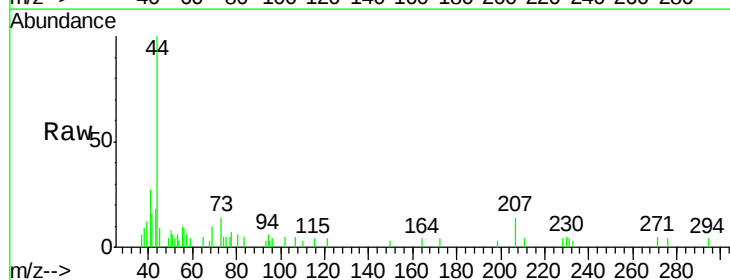
Tgt Ion: 53 Resp: 880

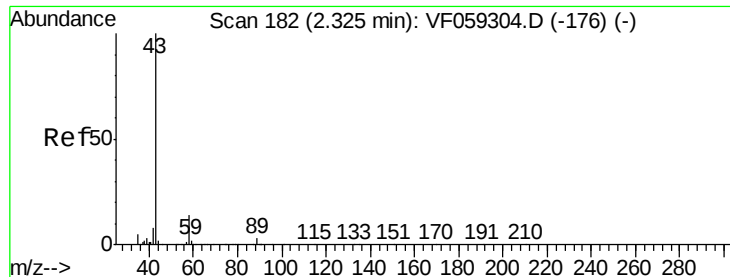
Ion Ratio Lower Upper

53 100

52 31.8 79.2 118.8#

51 45.6 40.9 61.3





#16

Acetone

Concen: 115.39 ug/l

RT: 2.33 min Scan# 182

Delta R.T. 0.00 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

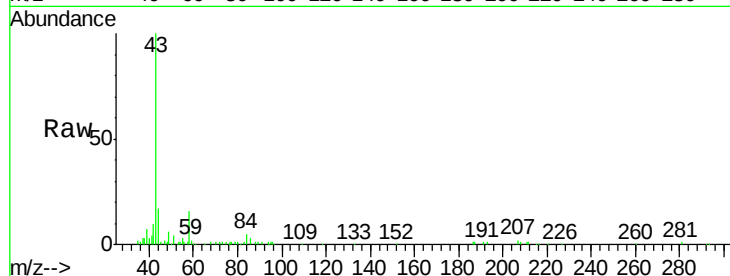
CF-7(3.0)

Tot Ion: 43 Resp: 68295

Ion Ratio Lower Upper

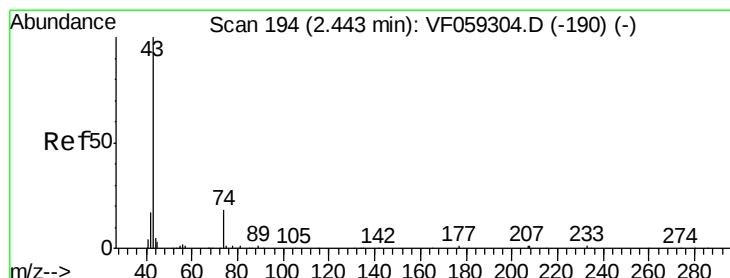
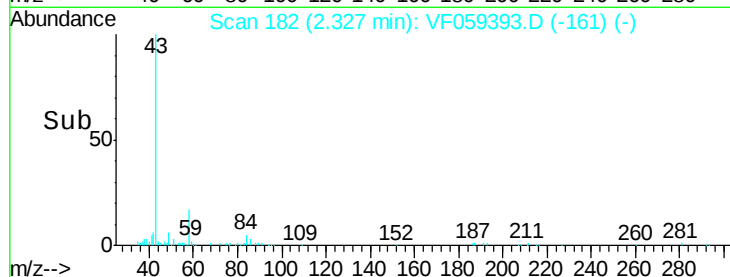
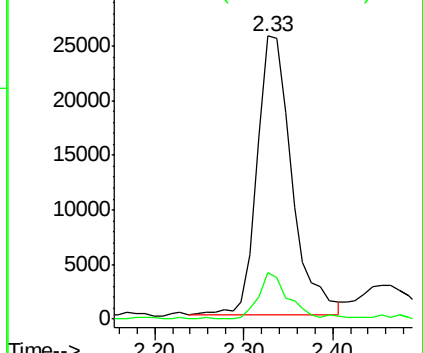
43 100

58 16.3 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 9.40 ug/l

RT: 2.47 min Scan# 196

Delta R.T. 0.02 min

Lab File: VF059393.D

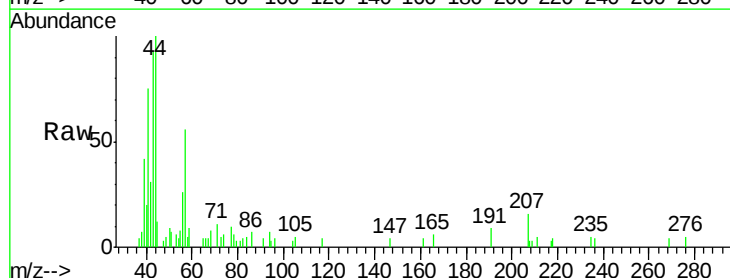
Acq: 2 Jul 2018 18:04

Tgt Ion: 43 Resp: 10566

Ion Ratio Lower Upper

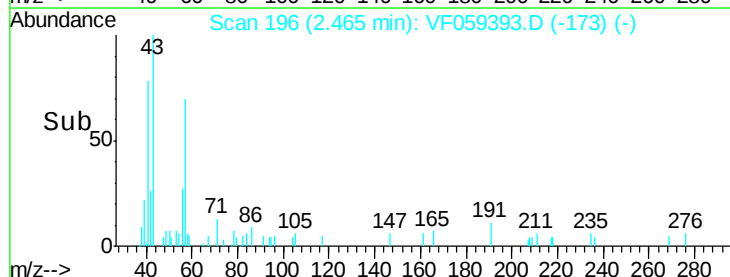
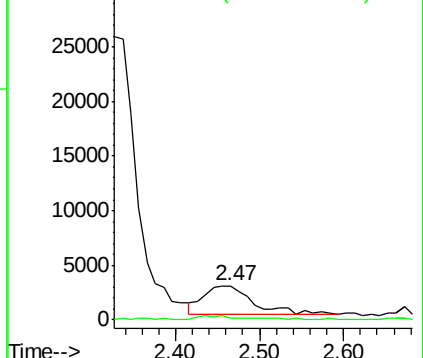
43 100

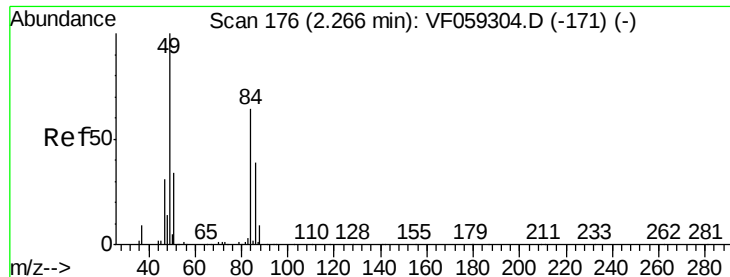
74 7.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

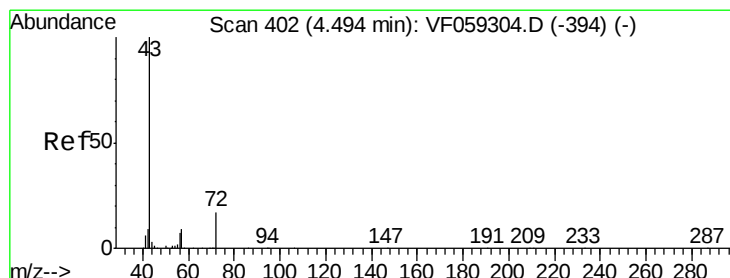
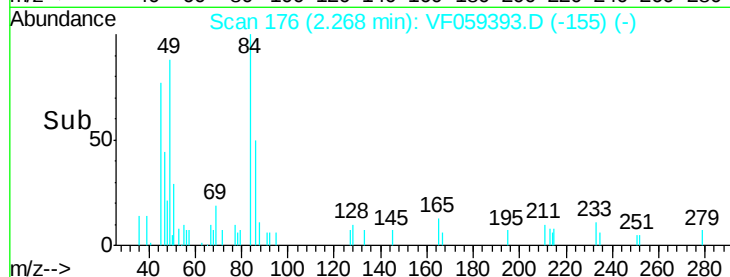
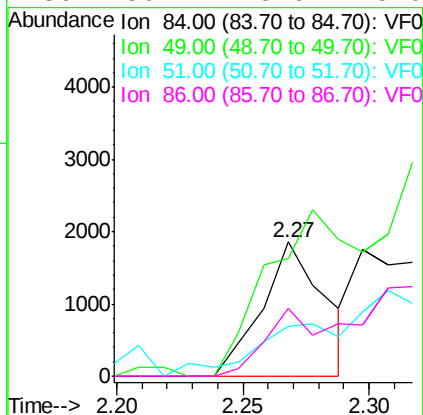
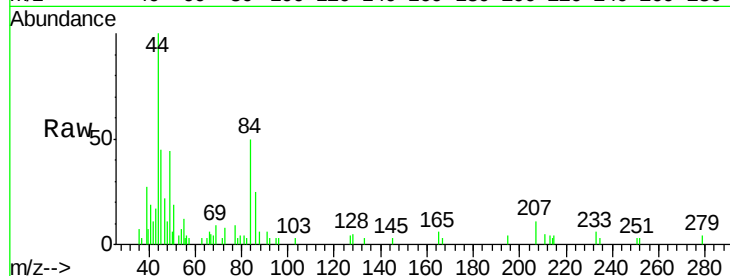




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

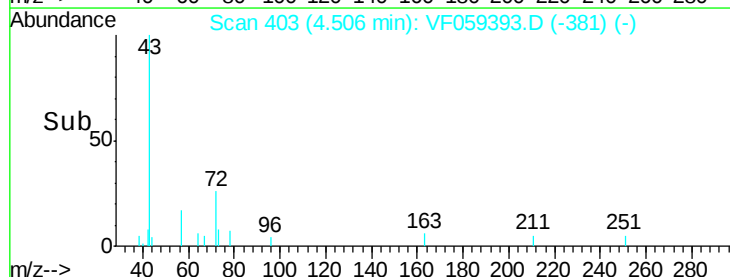
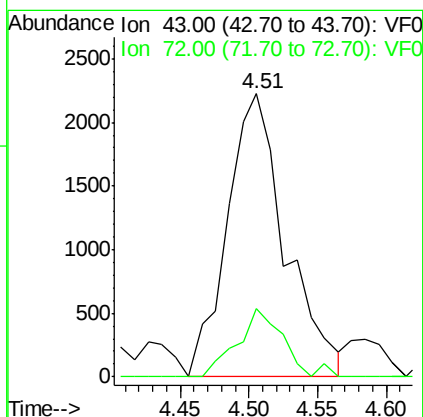
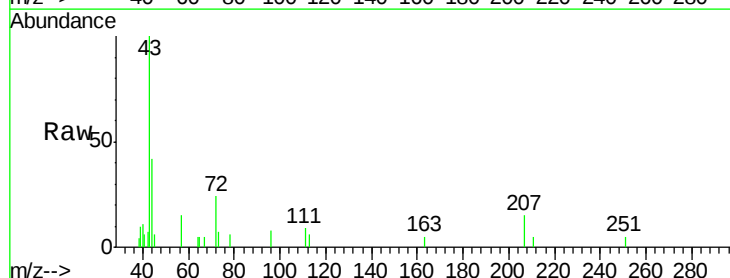
Instrument :
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ClientSampleId :
CF-7(3.0)

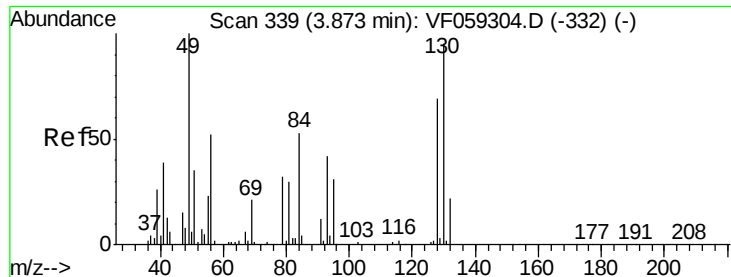
Tot Ion: 84 Resp: 3230
Ion Ratio Lower Upper
84 100
49 87.8 126.5 189.7#
51 37.0 42.9 64.3#
86 50.4 48.6 73.0



#25
2-Butanone
Concen: 6.90 ug/l
RT: 4.51 min Scan# 403
Delta R.T. 0.01 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

Tgt Ion: 43 Resp: 6547
Ion Ratio Lower Upper
43 100
72 24.0 14.4 21.6#

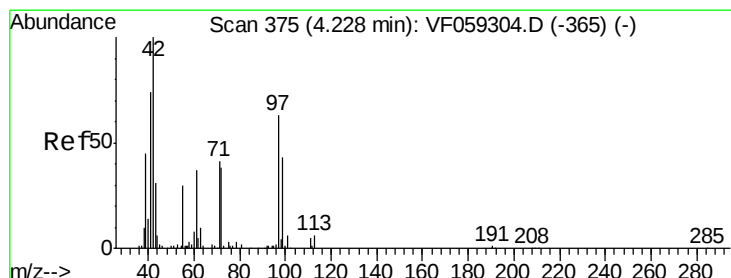
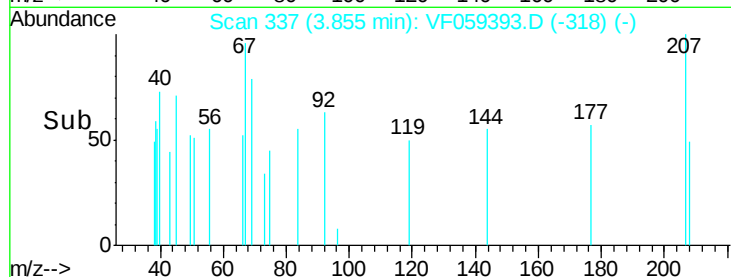
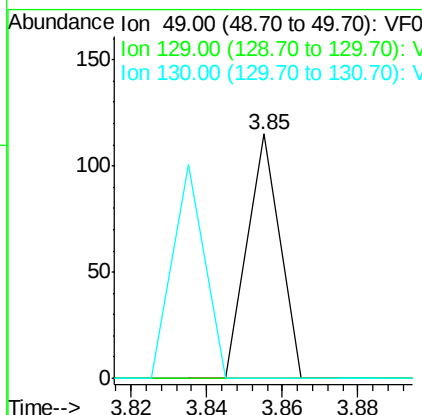
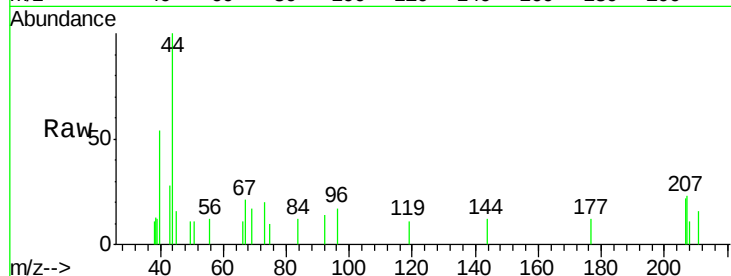




#28
Bromochloromethane
Concen: Below Cal
RT: 3.85 min Scan# 337
Delta R.T. -0.02 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

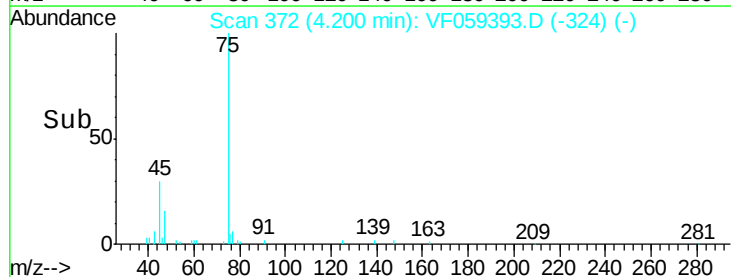
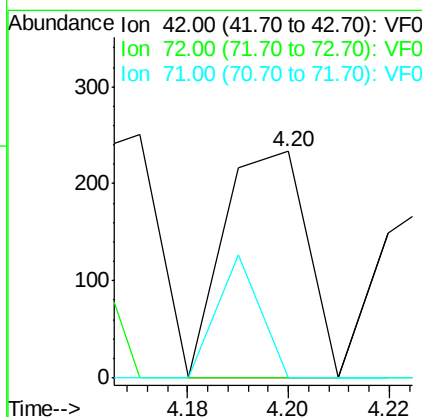
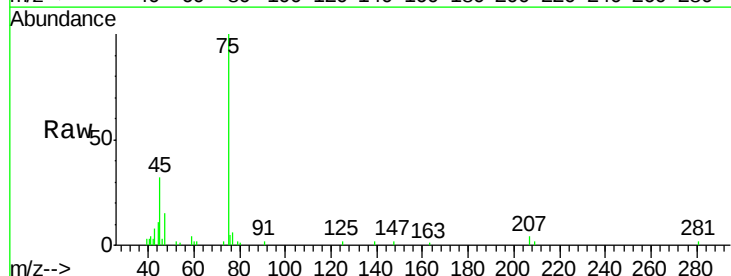
Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)

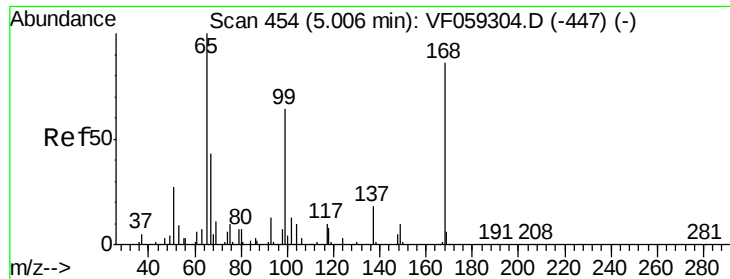
Tot Ion: 49 Resp: 68
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.4
130 0.0 75.1 112.7#



#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.20 min Scan# 372
Delta R.T. -0.03 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

Tgt Ion: 42 Resp: 266
Ion Ratio Lower Upper
42 100
72 0.0 30.5 45.7#
71 28.2 32.5 48.7#





#33

1,2-Dichloroethane-d4

Concen: 75.05 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

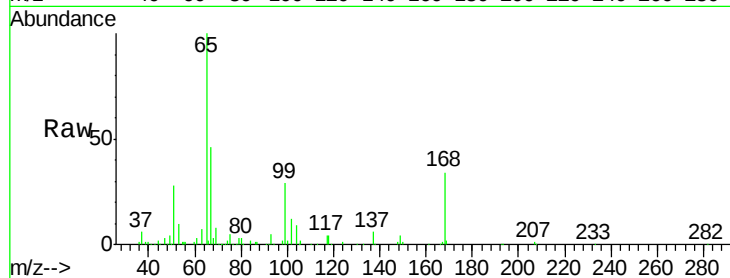
CF-7(3.0)

Tot Ion: 65 Resp: 169776

Ion Ratio Lower Upper

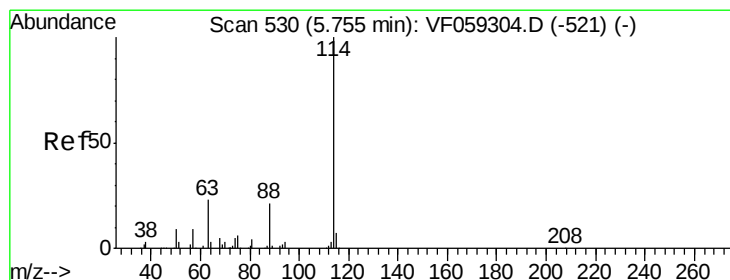
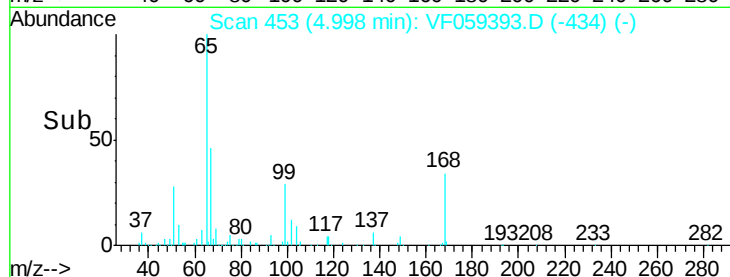
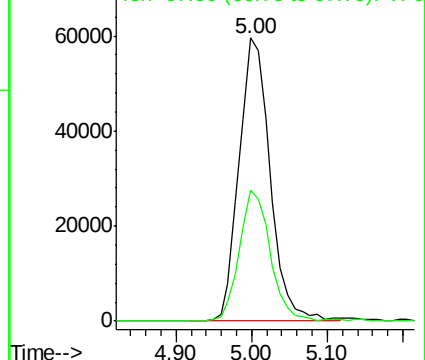
65 100

67 46.1 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

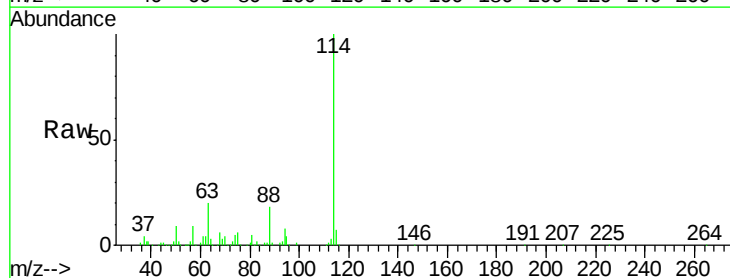
Tgt Ion: 114 Resp: 297920

Ion Ratio Lower Upper

114 100

63 20.5 0.0 45.8

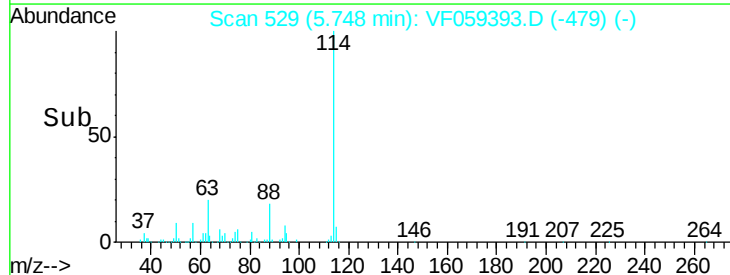
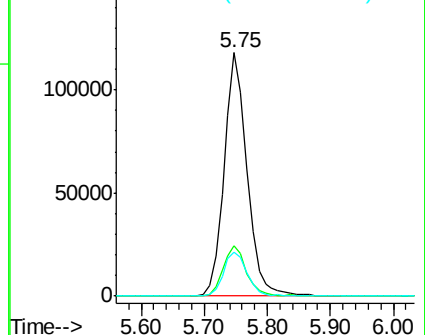
88 17.9 0.0 41.2

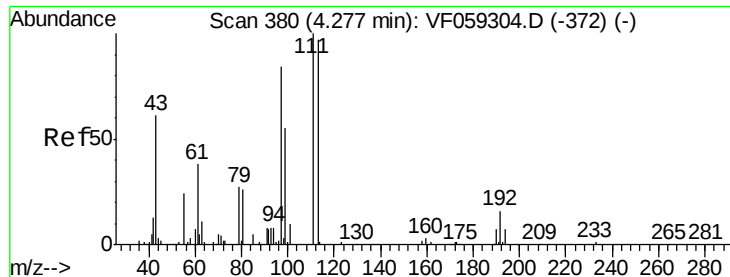


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

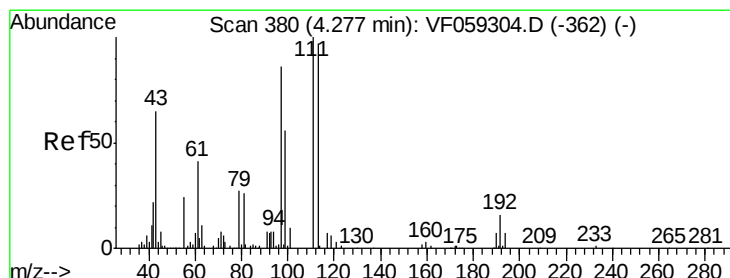
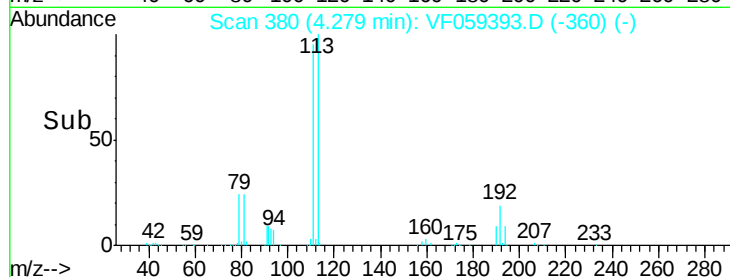
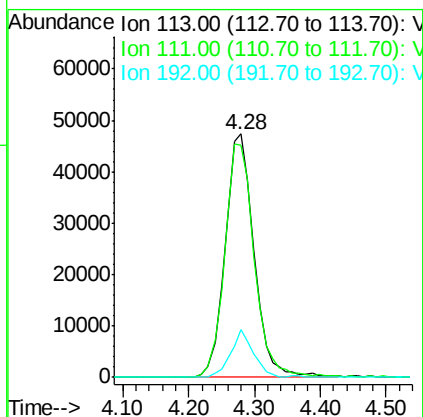
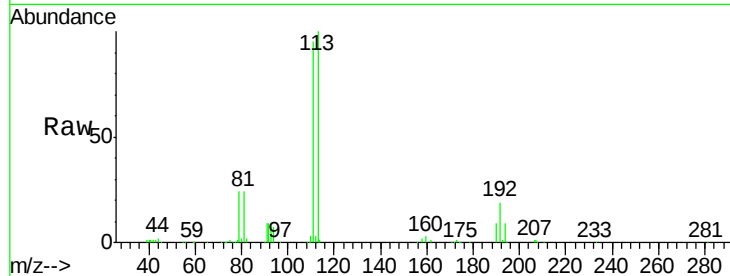




#35
Dibromofluoromethane
Concen: 66.62 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.00 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

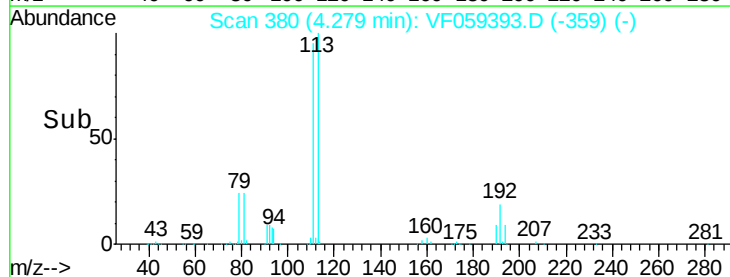
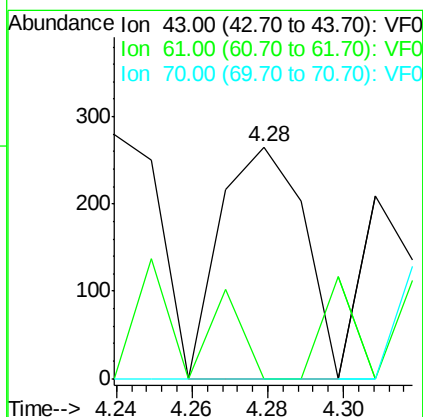
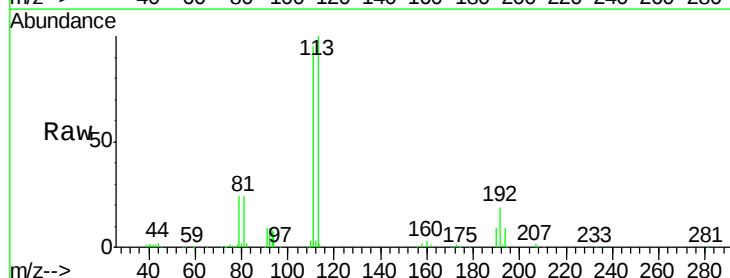
Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)

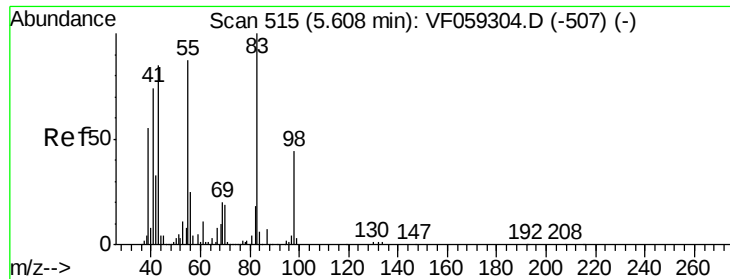
Tot Ion:113 Resp: 145013
Ion Ratio Lower Upper
113 100
111 95.3 82.1 123.1
192 19.6 13.0 19.6#



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 380
Delta R.T. 0.00 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

Tgt Ion: 43 Resp: 405
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#

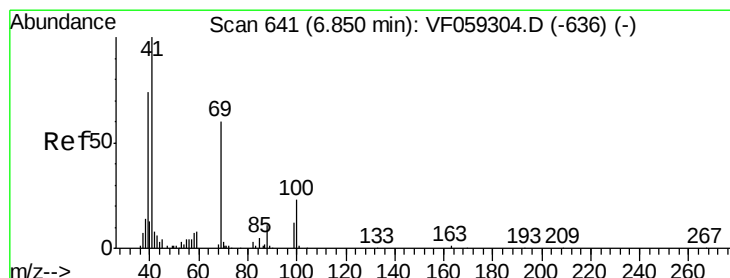
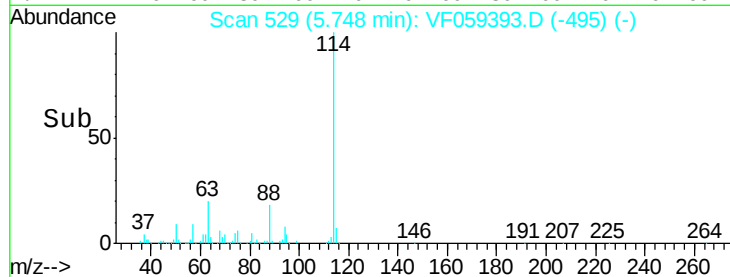
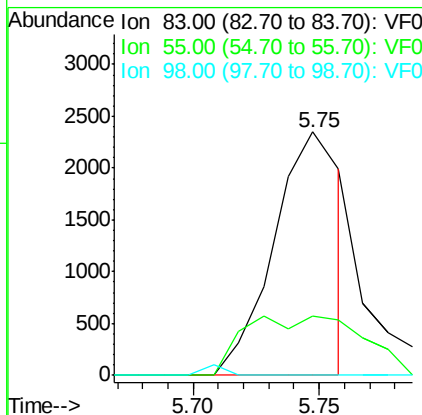
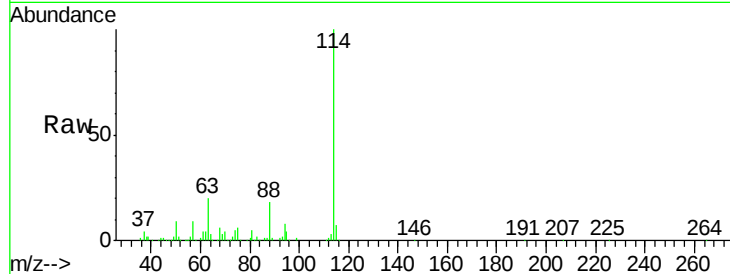




#39
Methylcyclohexane
Concen: 1.91 ug/l
RT: 5.75 min Scan# 529
Delta R.T. 0.14 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

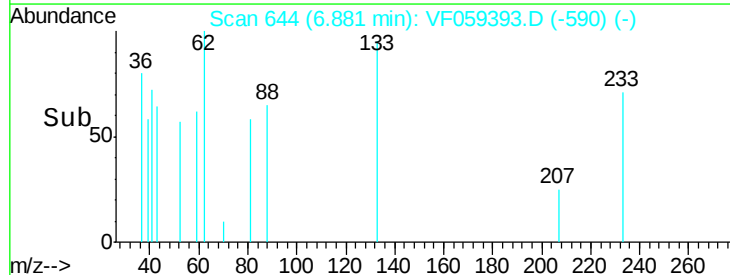
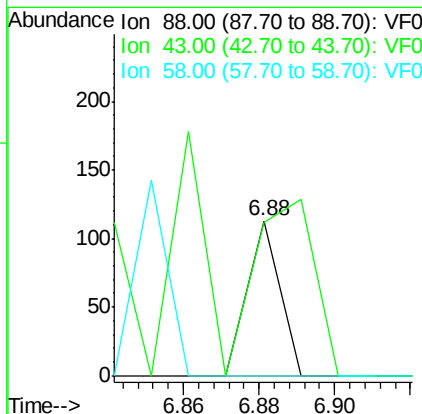
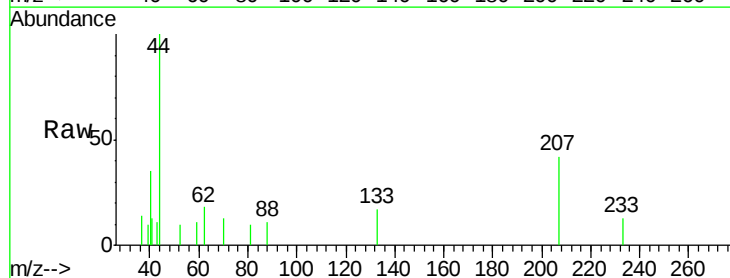
Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)

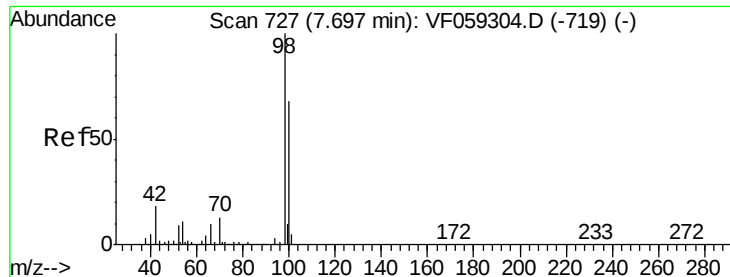
Tot Ion: 83 Resp: 4396
Ion Ratio Lower Upper
83 100
55 24.4 69.2 103.8#
98 0.0 35.0 52.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.88 min Scan# 644
Delta R.T. 0.03 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 99.1 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 64.02 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

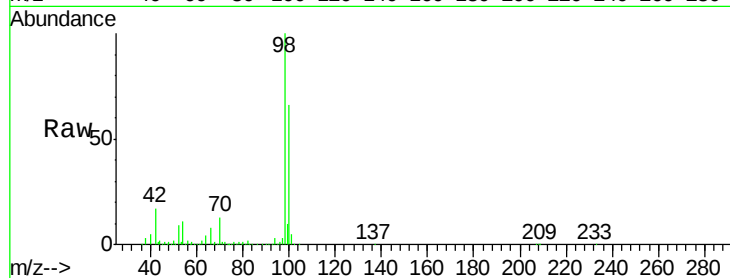
CF-7(3.0)

Tot Ion: 98 Resp: 345021

Ion Ratio Lower Upper

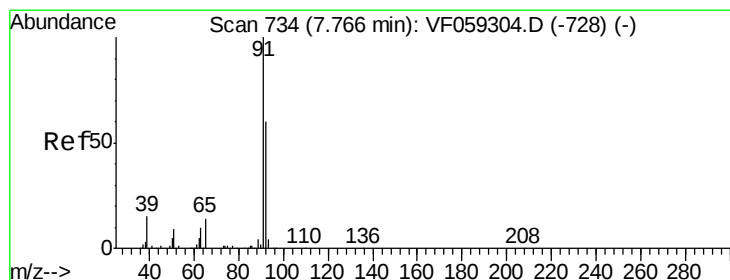
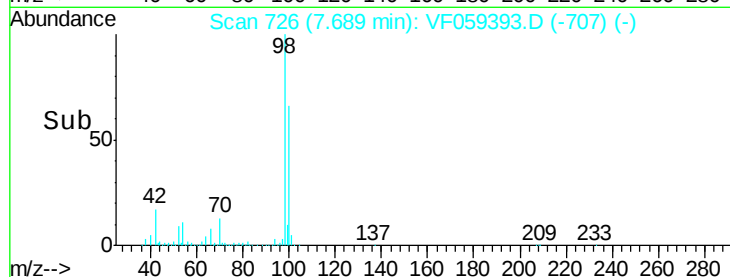
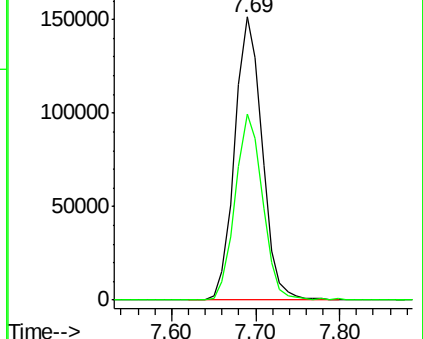
98 100

100 65.7 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 2.97 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059393.D

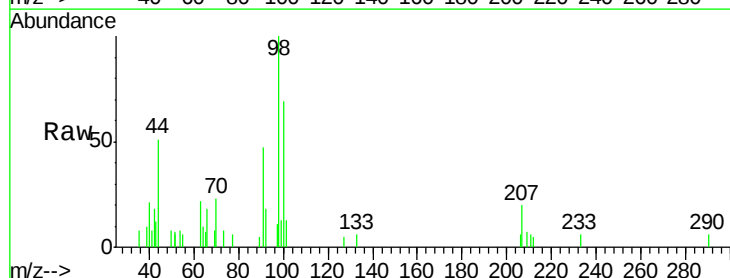
Acq: 2 Jul 2018 18:04

Tgt Ion: 63 Resp: 462

Ion Ratio Lower Upper

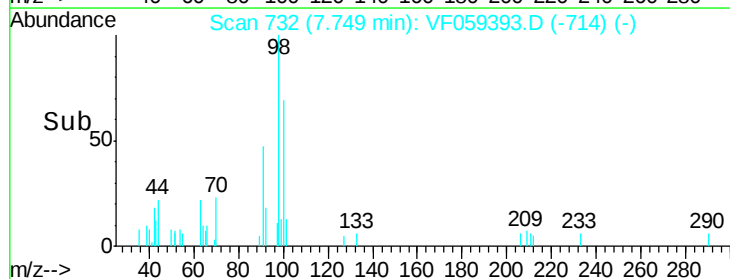
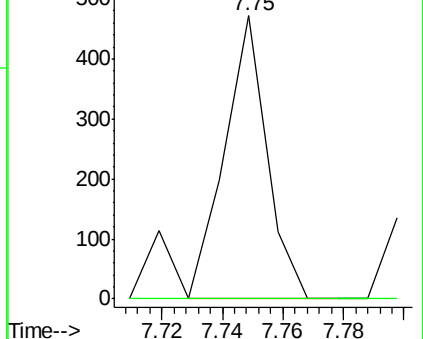
63 100

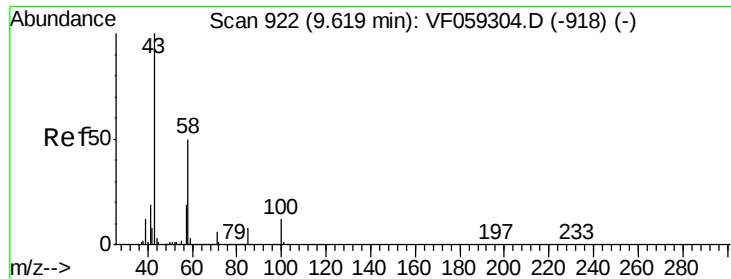
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

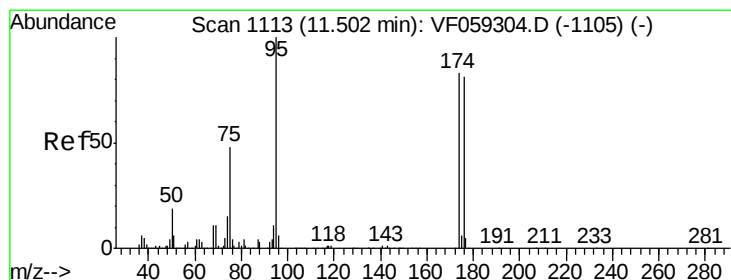
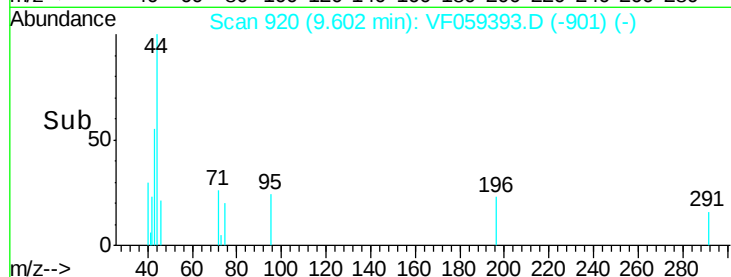
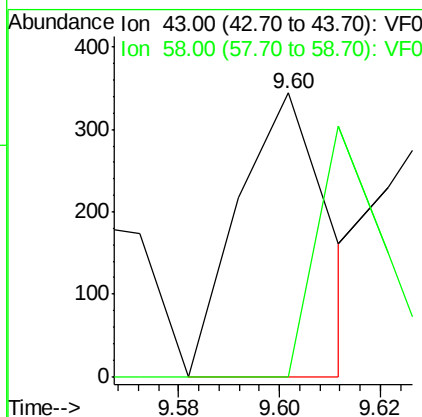
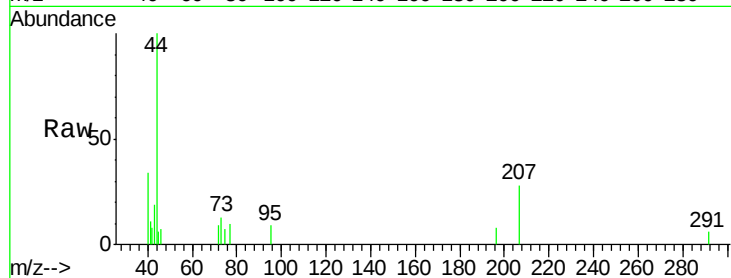




#59
2-Hexanone
Concen: Below Cal
RT: 9.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

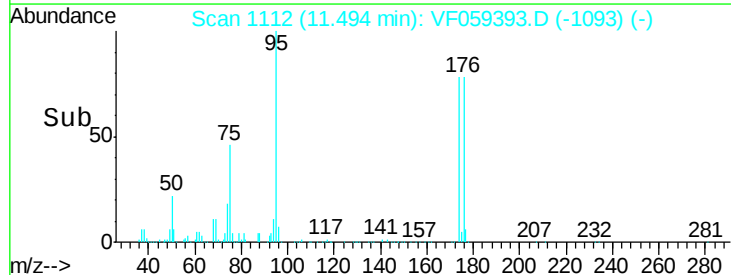
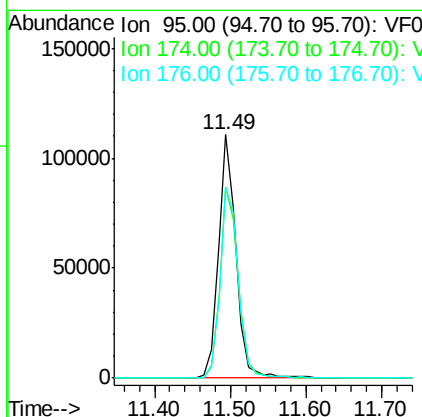
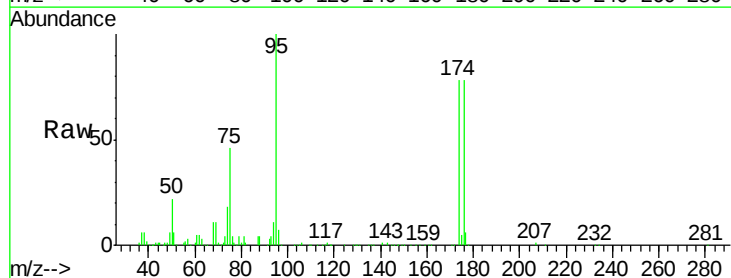
Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)

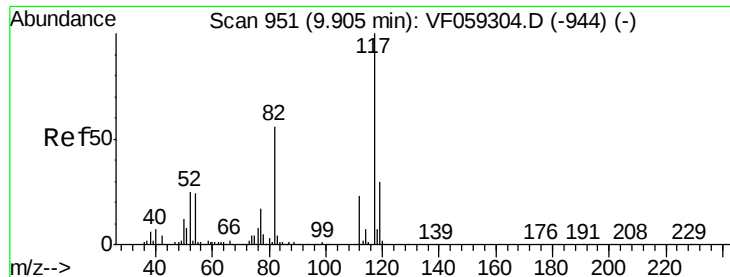
Tot Ion: 43 Resp: 427
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 59.29 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

Tgt Ion: 95 Resp: 180257
Ion Ratio Lower Upper
95 100
174 78.3 0.0 165.2
176 78.4 0.0 161.0

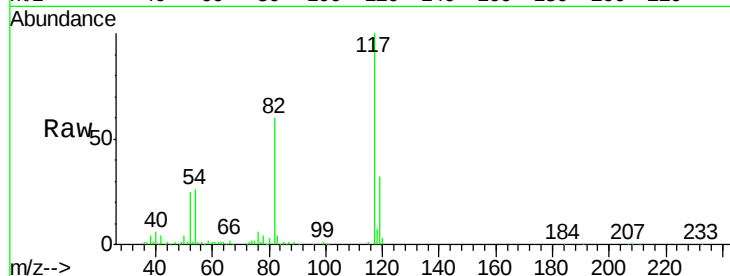




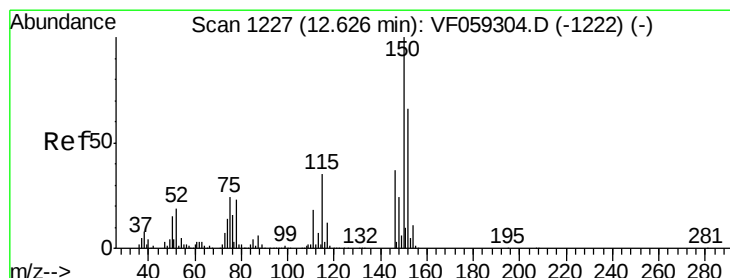
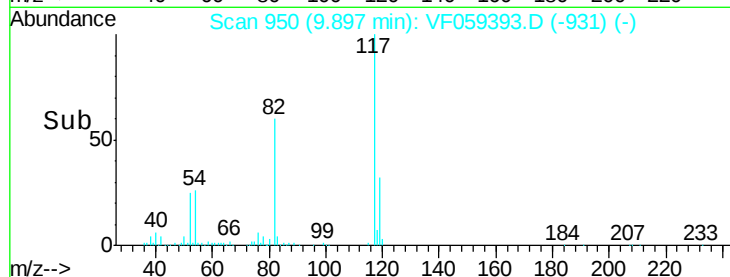
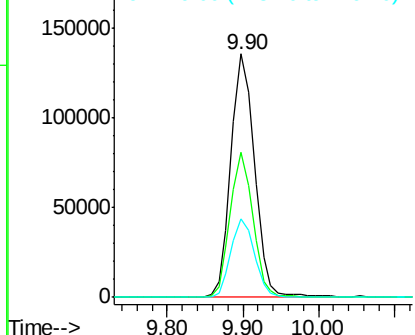
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.7	44.6	66.8
119	32.2	24.1	36.1

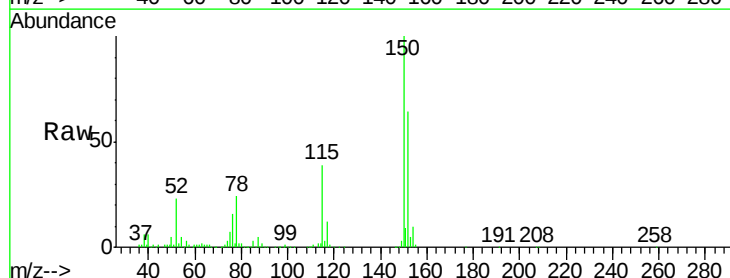


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

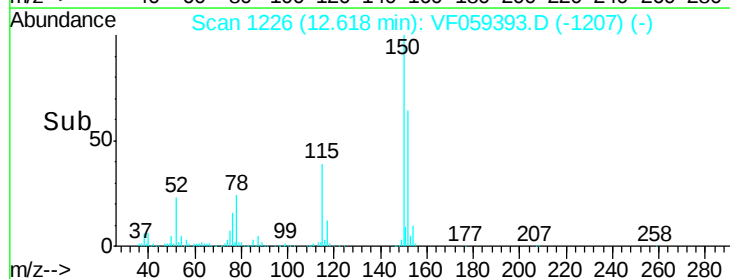
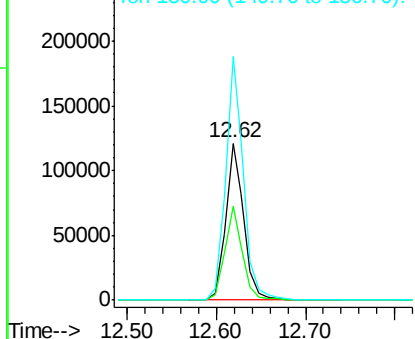


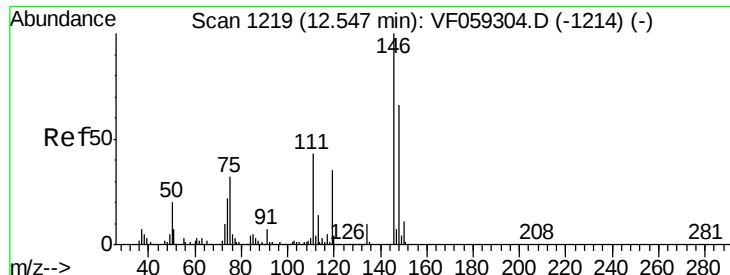
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059393.D
Acq: 2 Jul 2018 18:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.1	27.1	81.3
150	155.3	0.0	305.2



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





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059393.D

Acq: 2 Jul 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

CF-7(3.0)

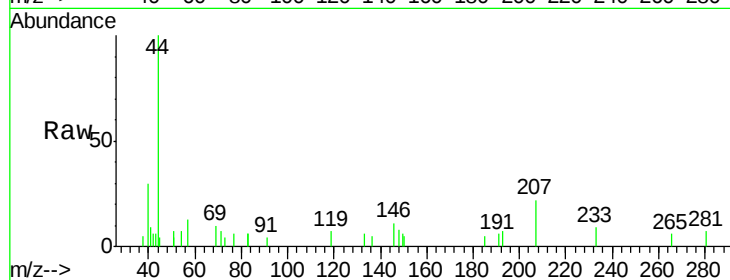
Tot Ion:146 Resp: 219

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

148 69.1 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

