

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059401.D
 Acq On : 2 Jul 2018 21:46
 Operator : VA/AP
 Sample : J3802-07RE
 Misc : 6.52g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-7(3.0)RE

Quant Time: Jul 03 01:12:01 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	216000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	328135	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.90	117	335763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	204523	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	172723	61.89	ug/l	0.00
Spiked Amount				50.000		
Recovery						123.78%
35) Dibromofluoromethane	4.27	113	160909	67.11	ug/l	0.00
Spiked Amount				50.000		
Recovery						134.22%
50) Toluene-d8	7.69	98	376804	63.48	ug/l	0.00
Spiked Amount				50.000		
Recovery						126.96%
62) 4-Bromofluorobenzene	11.49	95	199709	59.64	ug/l	0.00
Spiked Amount				50.000		
Recovery						119.28%

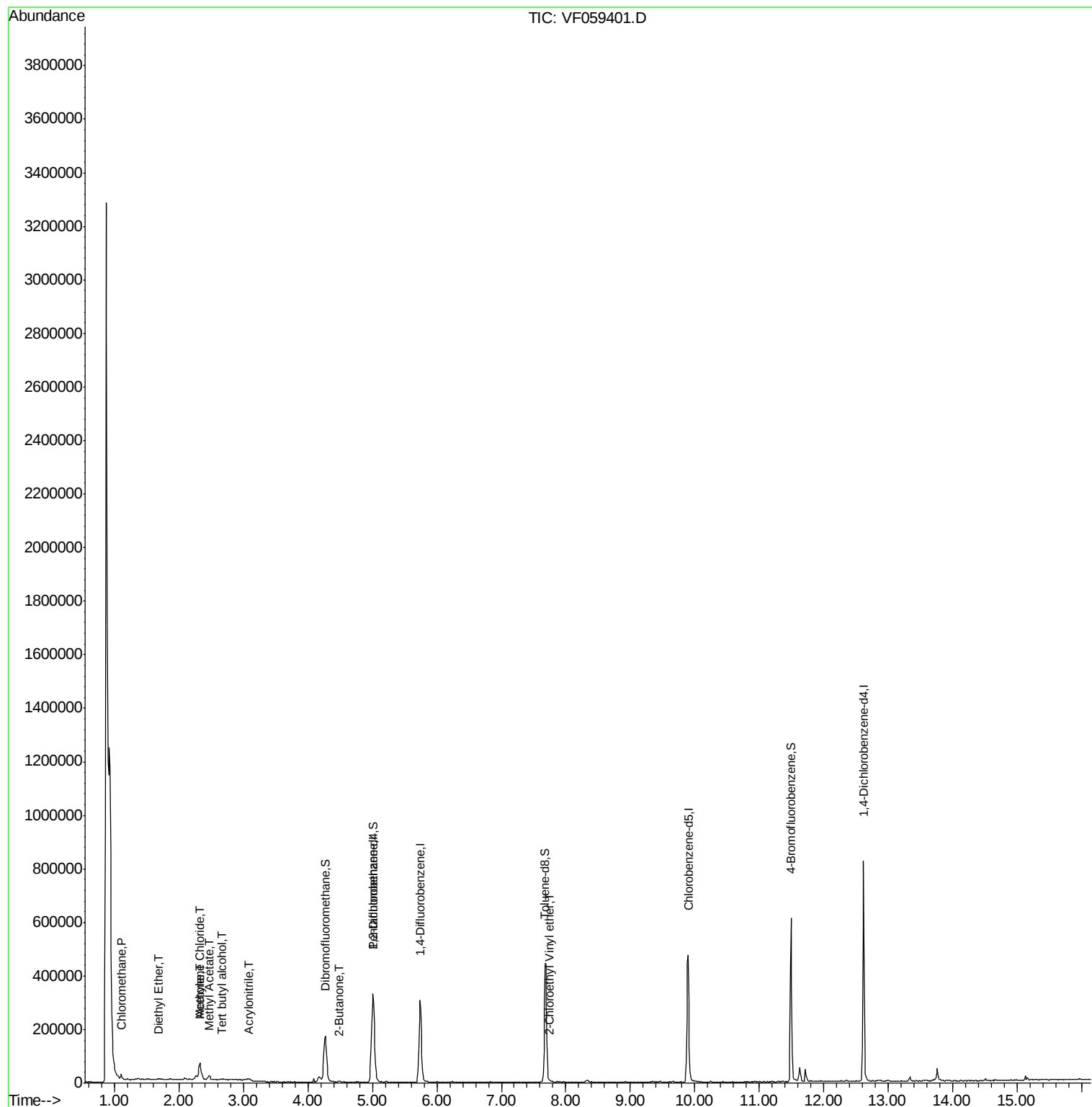
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	2022	1.53	ug/l	# 73
5) Bromomethane	1.33	94	811	Below	Cal	# 59
8) Diethyl Ether	1.68	74	990	1.50	ug/l	58
11) Tert butyl alcohol	2.67	59	941	5.06	ug/l	# 44
15) Acrylonitrile	3.08	53	534	1.63	ug/l	# 47
16) Acetone	2.33	43	97580	135.33	ug/l	# 93
18) Methyl Acetate	2.45	43	7362	4.79	ug/l	# 61
20) Methylene Chloride	2.31	84	14496	2.20	ug/l	83
25) 2-Butanone	4.50	43	7261	5.92	ug/l	# 67
28) Bromochloromethane	3.77	49	164	Below	Cal	# 6
29) Tetrahydrofuran	4.26	42	746	Below	Cal	96
37) Ethyl Acetate	4.24	43	672	Below	Cal	# 87
49) 1,4-Dioxane	6.84	88	80	Below	Cal	# 1
58) 2-Chloroethyl Vinyl ether	7.75	63	370	2.16	ug/l	100
59) 2-Hexanone	9.60	43	721	Below	Cal	# 30
87) 1,3-Dichlorobenzene	12.54	146	298	Below	Cal	# 36

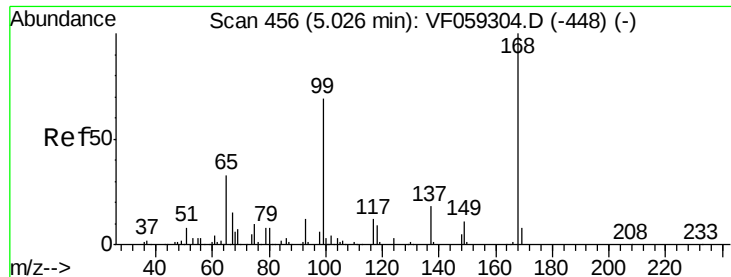
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_F

ClientSampleId :

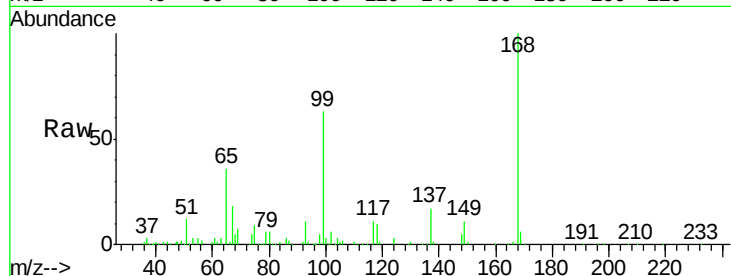
CF-7(3.0)RE

Tot Ion:168 Resp: 216000

Ion Ratio Lower Upper

168 100

99 62.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

60000

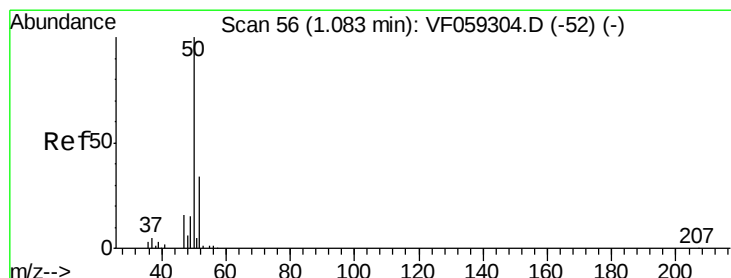
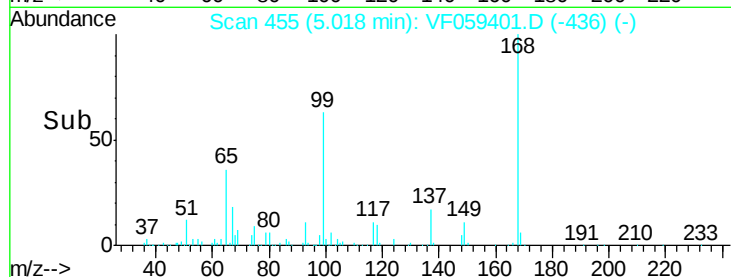
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#3

Chloromethane

Concen: 1.53 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059401.D

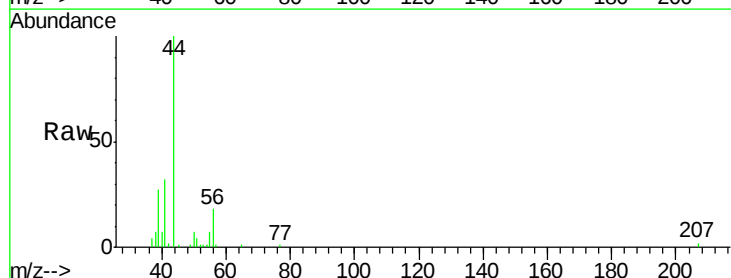
Acq: 2 Jul 2018 21:46

Tgt Ion: 50 Resp: 2022

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

1.09

1000

800

600

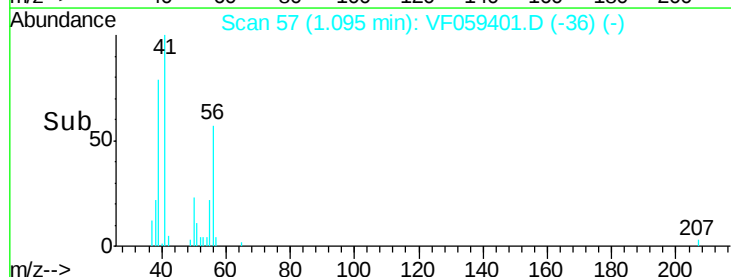
400

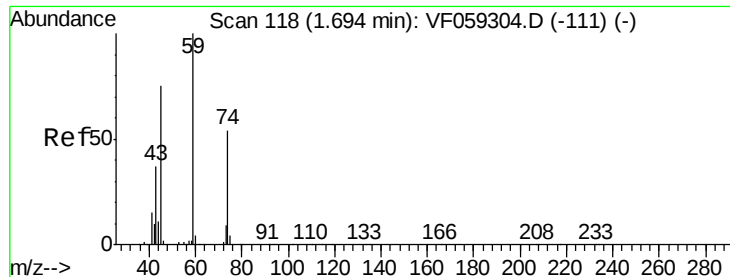
200

0

1.00 1.05 1.10 1.15 1.20

Time-->





#8

Diethyl Ether

Concen: 1.50 ug/l

RT: 1.68 min Scan# 116

Delta R.T. -0.02 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_F

ClientSampled :

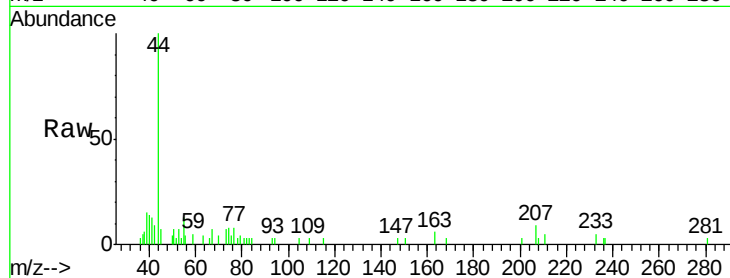
CF-7(3.0)RE

Tot Ion: 74 Resp: 990

Ion Ratio Lower Upper

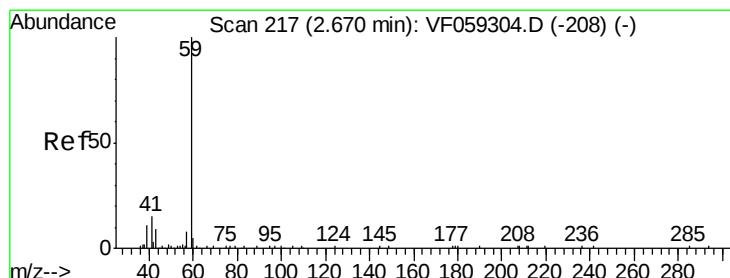
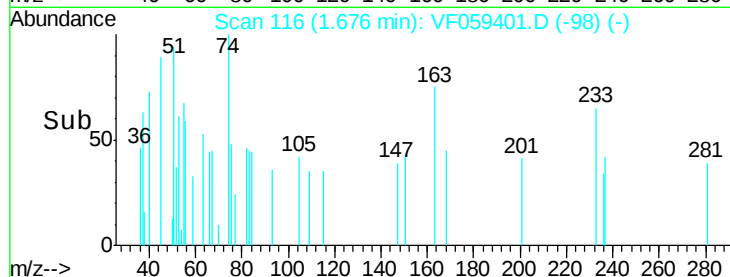
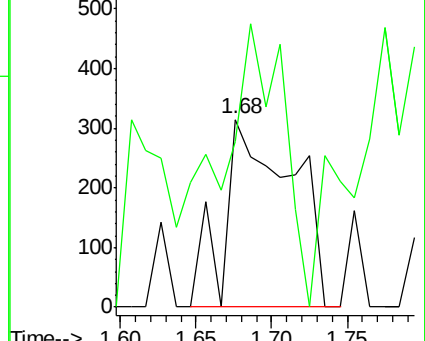
74 100

45 88.5 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 5.06 ug/l

RT: 2.67 min Scan# 217

Delta R.T. 0.00 min

Lab File: VF059401.D

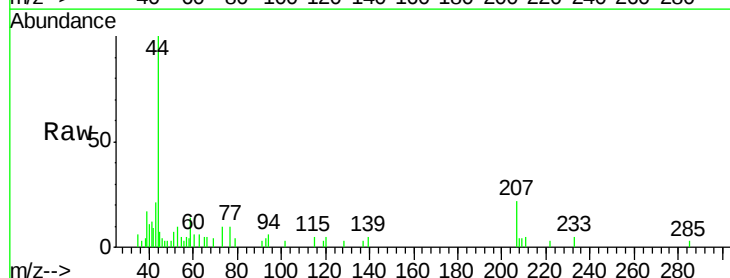
Acq: 2 Jul 2018 21:46

Tgt Ion: 59 Resp: 941

Ion Ratio Lower Upper

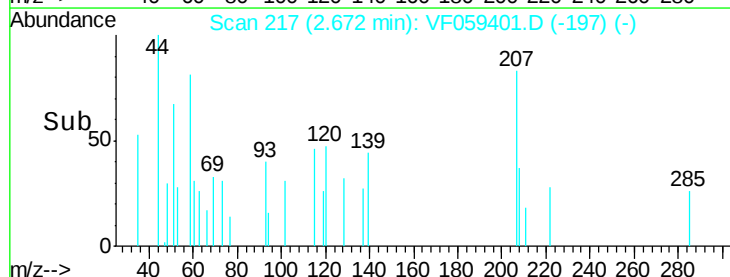
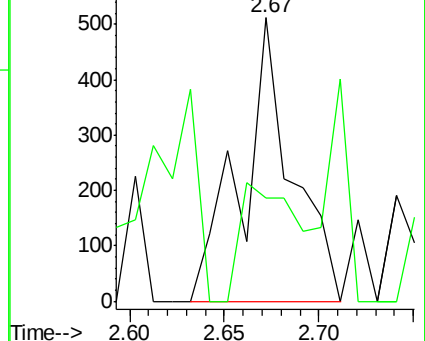
59 100

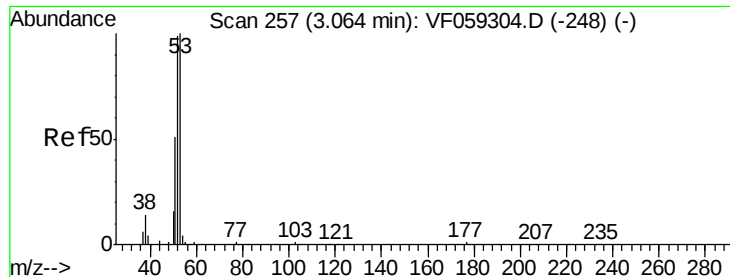
57 36.3 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#15

Acrylonitrile

Concen: 1.63 ug/l

RT: 3.08 min Scan# 258

Delta R.T. 0.01 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_F

ClientSampleId :

CF-7(3.0)RE

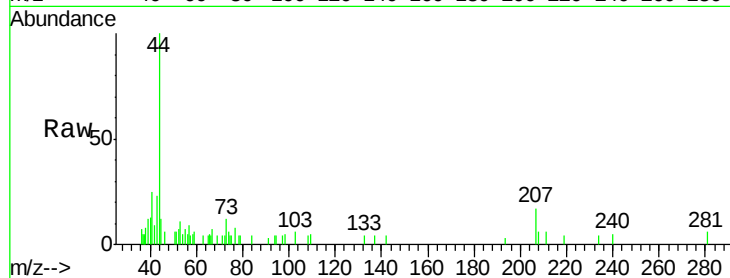
Tot Ion: 53 Resp: 534

Ion Ratio Lower Upper

53 100

52 64.4 79.2 118.8#

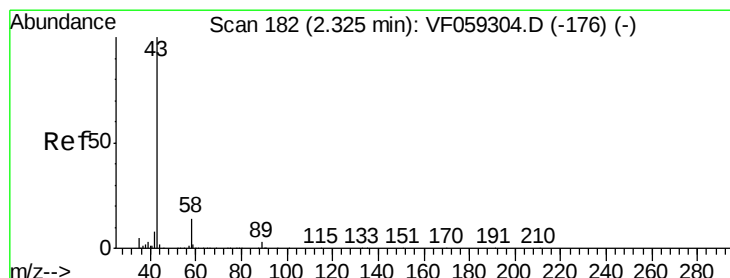
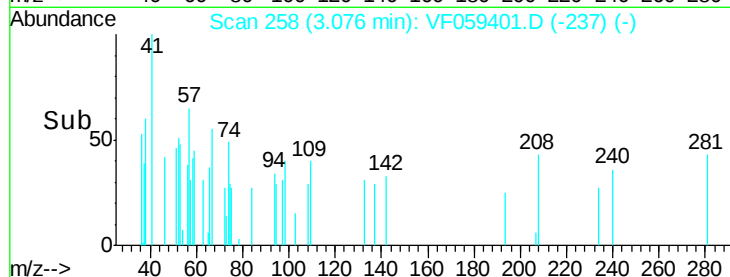
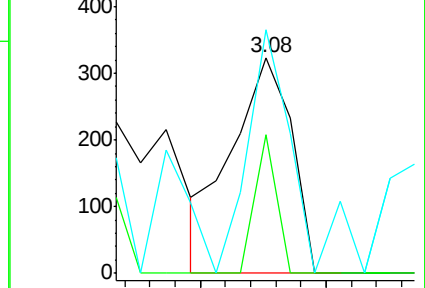
51 113.0 40.9 61.3#



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



#16

Acetone

Concen: 135.33 ug/l

RT: 2.33 min Scan# 182

Delta R.T. 0.00 min

Lab File: VF059401.D

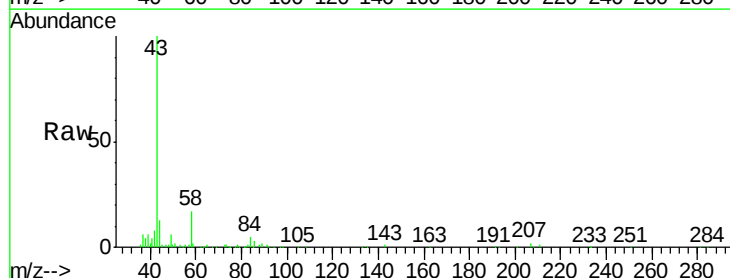
Acq: 2 Jul 2018 21:46

Tgt Ion: 43 Resp: 97580

Ion Ratio Lower Upper

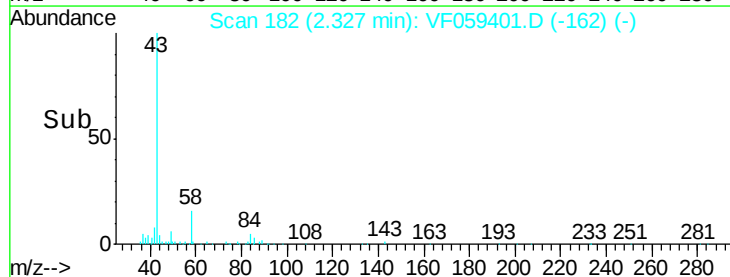
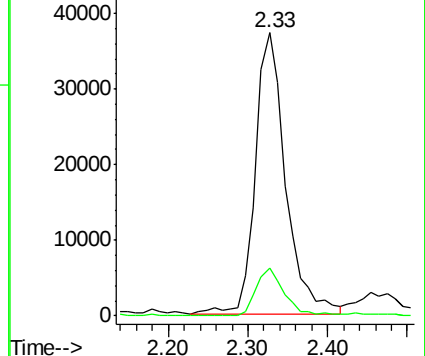
43 100

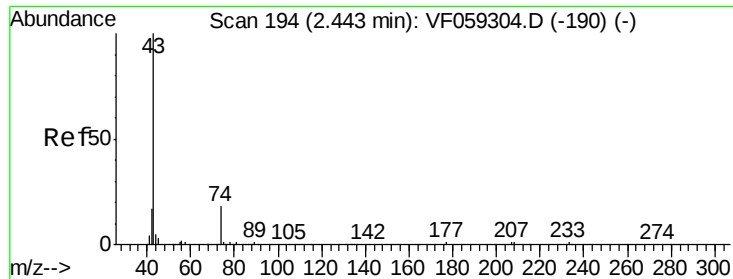
58 17.1 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

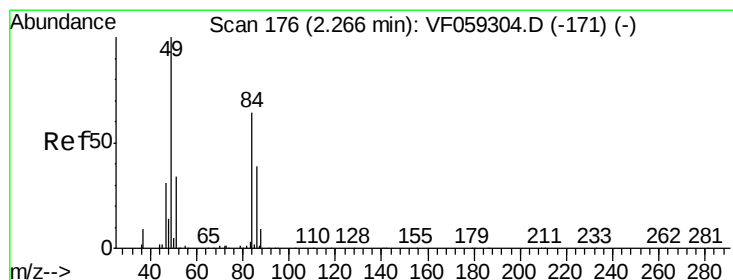
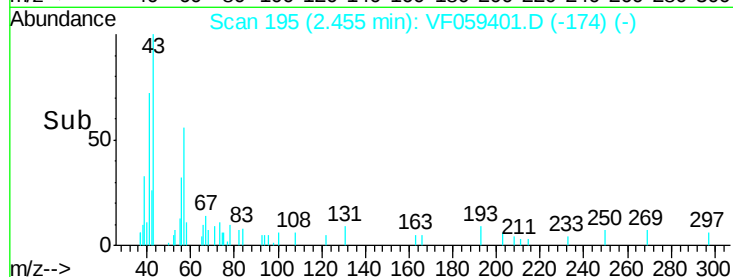
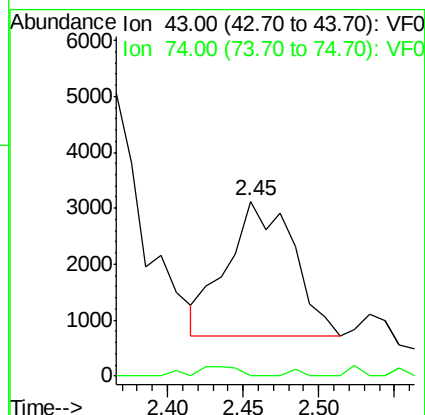
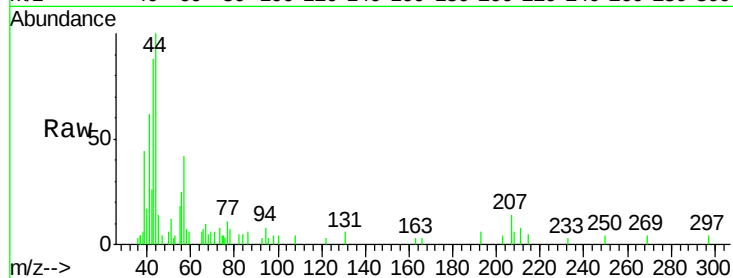




#18
Methyl Acetate
Concen: 4.79 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059401.D
Acq: 2 Jul 2018 21:46

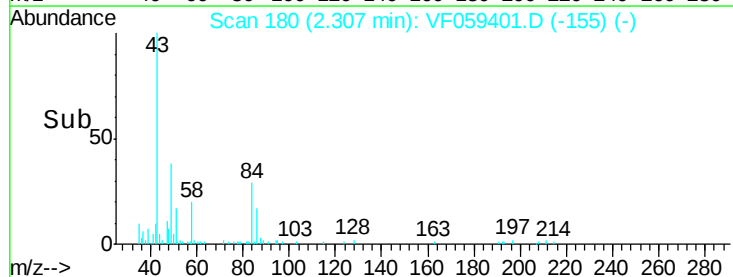
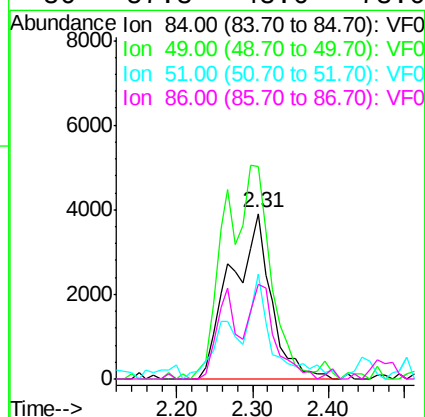
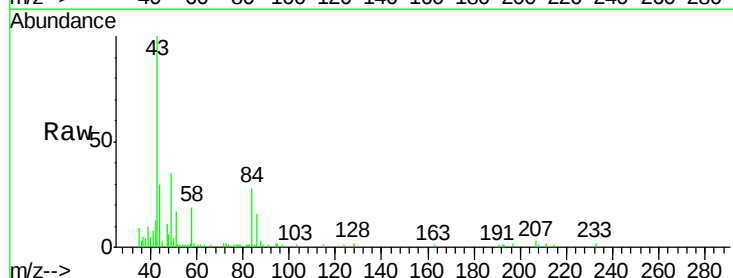
Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)RE

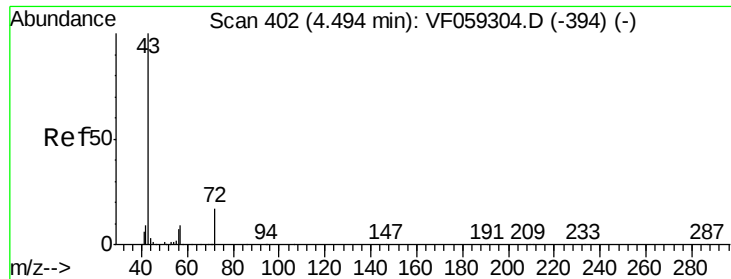
Tot Ion: 43 Resp: 7362
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 2.20 ug/l
RT: 2.31 min Scan# 180
Delta R.T. 0.04 min
Lab File: VF059401.D
Acq: 2 Jul 2018 21:46

Tgt Ion: 84 Resp: 14496
Ion Ratio Lower Upper
84 100
49 128.6 126.5 189.7
51 63.3 42.9 64.3
86 57.3 48.6 73.0





#25

2-Butanone

Concen: 5.92 ug/l

RT: 4.50 min Scan# 402

Delta R.T. 0.00 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_F

ClientSampleId :

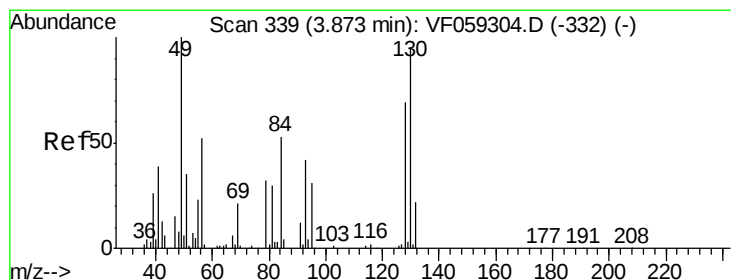
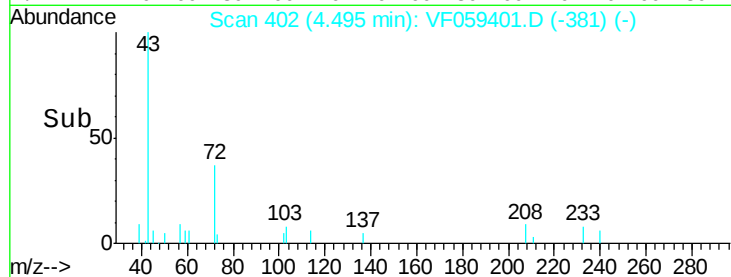
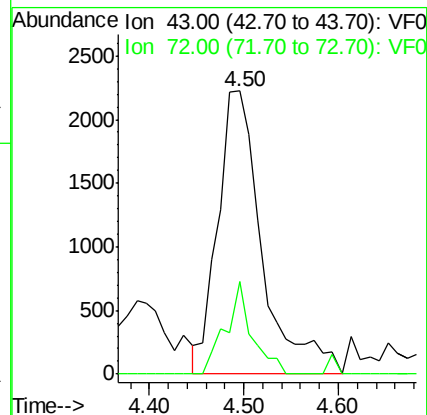
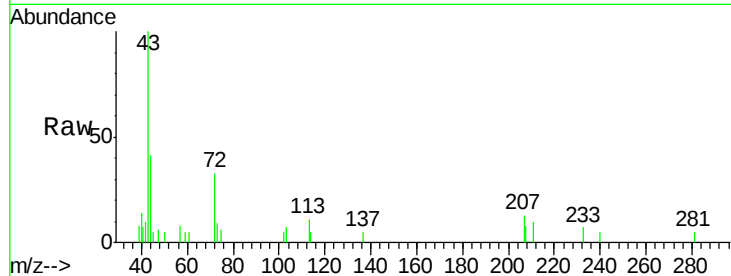
CF-7(3.0)RE

Tot Ion: 43 Resp: 7261

Ion Ratio Lower Upper

43 100

72 32.6 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 3.77 min Scan# 328

Delta R.T. -0.11 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

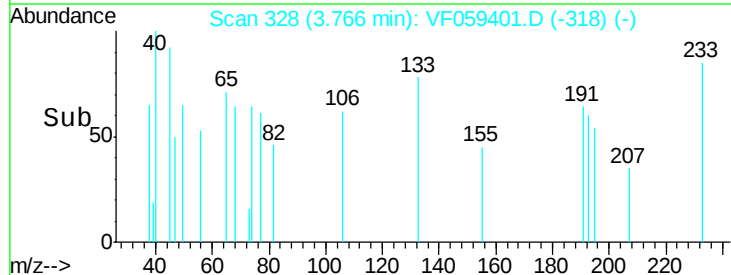
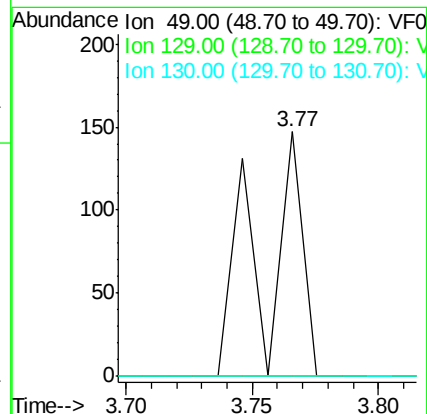
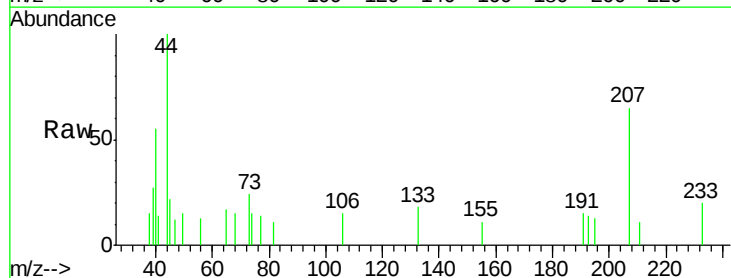
Tgt Ion: 49 Resp: 164

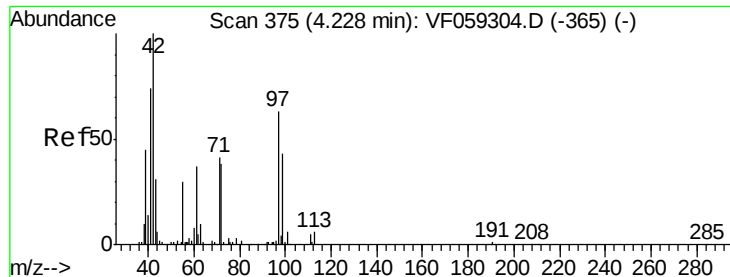
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

130 0.0 75.1 112.7#

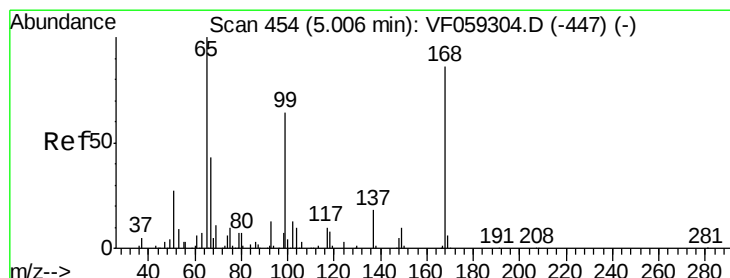
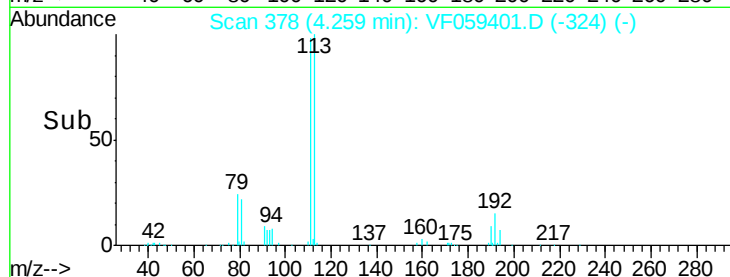
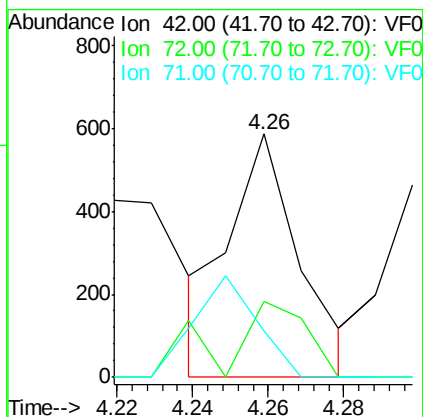
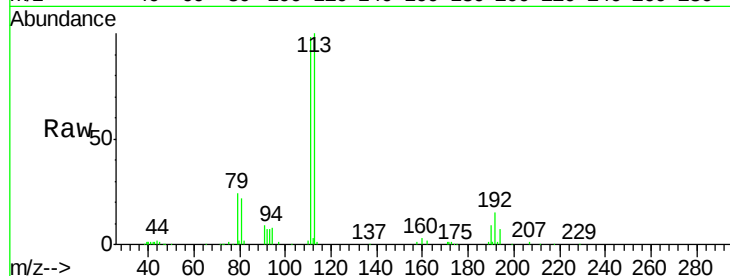




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.26 min Scan# 378
Delta R.T. 0.03 min
Lab File: VF059401.D
Acq: 2 Jul 2018 21:46

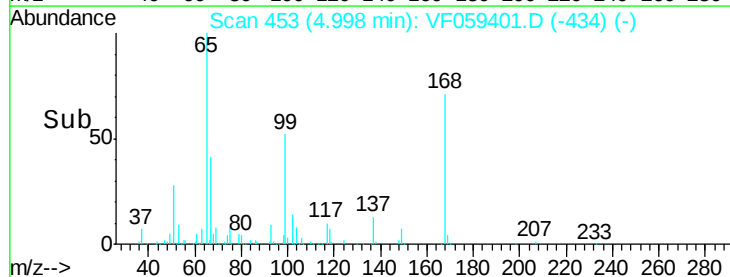
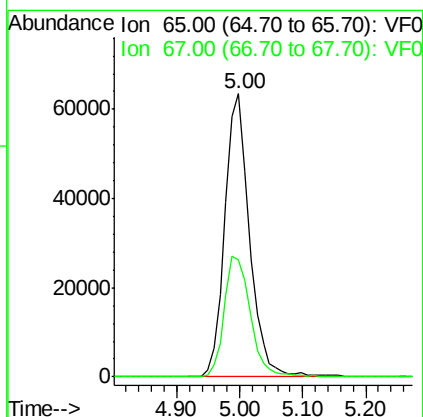
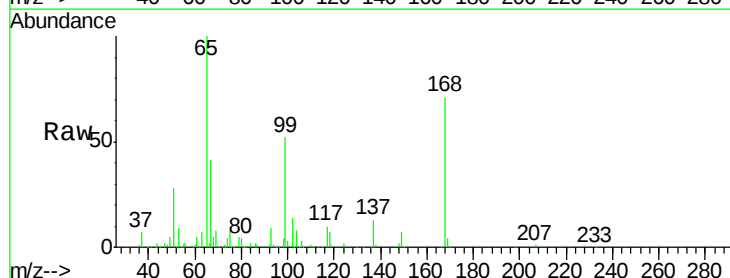
Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)RE

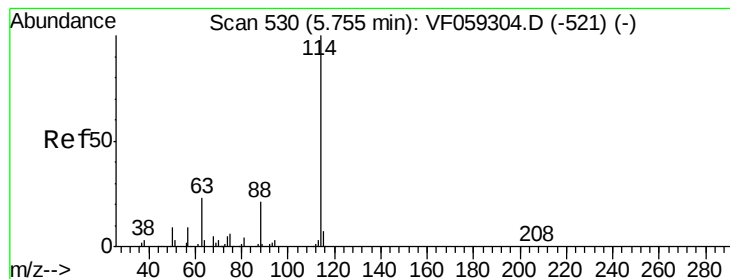
Tot Ion: 42 Resp: 746
Ion Ratio Lower Upper
42 100
72 36.6 30.5 45.7
71 37.5 32.5 48.7



#33
1,2-Dichloroethane-d4
Concen: 61.89 ug/l
RT: 5.00 min Scan# 453
Delta R.T. -0.01 min
Lab File: VF059401.D
Acq: 2 Jul 2018 21:46

Tgt Ion: 65 Resp: 172723
Ion Ratio Lower Upper
65 100
67 41.2 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.74 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_F

ClientSampleId :

CF-7(3.0)RE

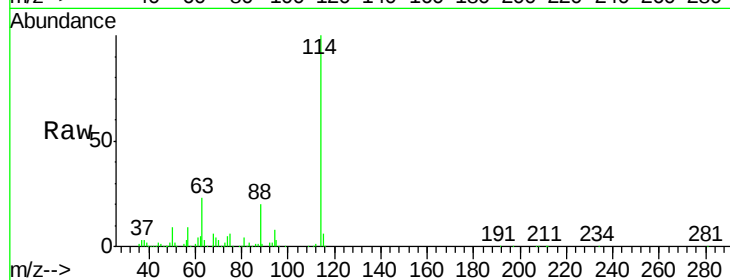
Tot Ion:114 Resp: 328135

Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.8

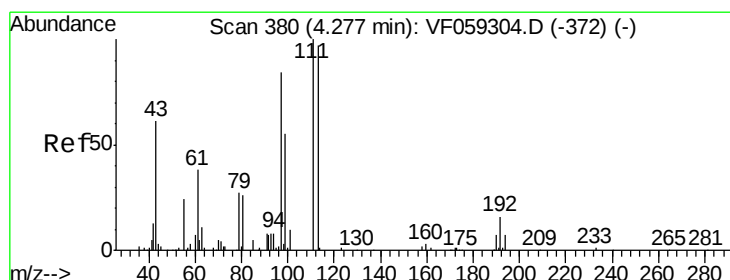
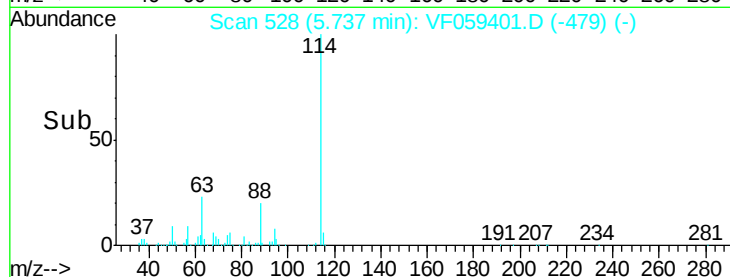
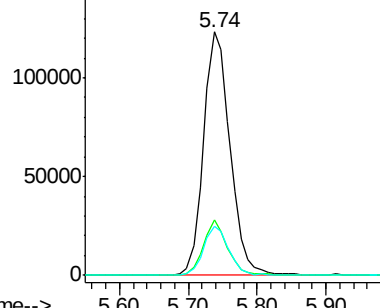
88 19.9 0.0 41.2



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: 67.11 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

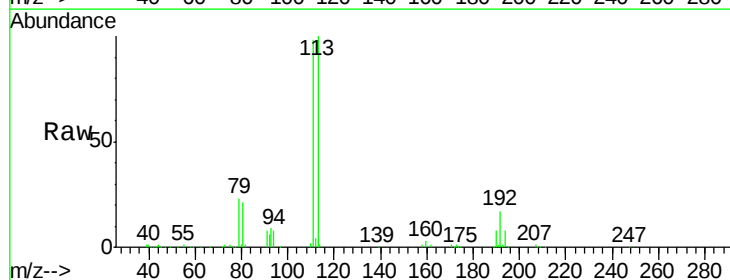
Tgt Ion:113 Resp: 160909

Ion Ratio Lower Upper

113 100

111 97.6 82.1 123.1

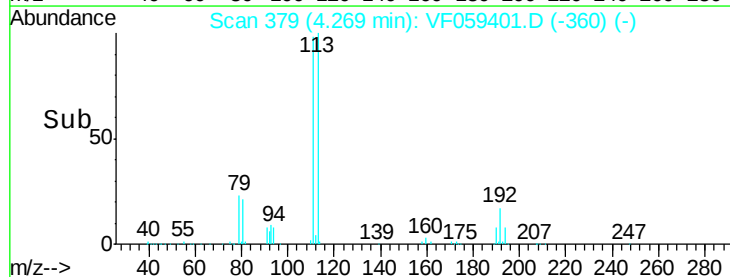
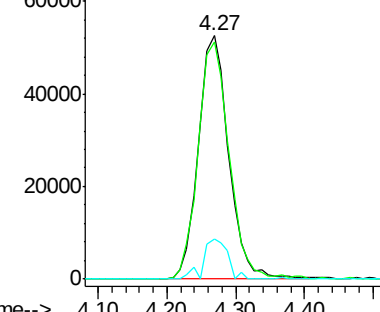
192 16.6 13.0 19.6

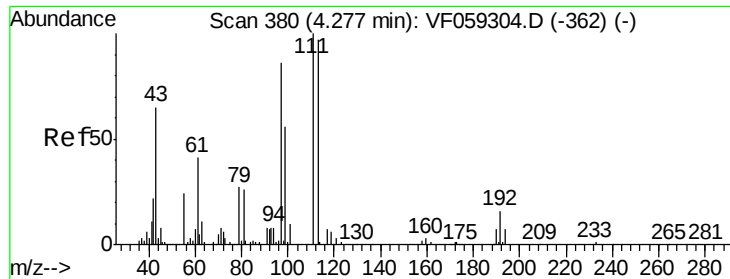


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

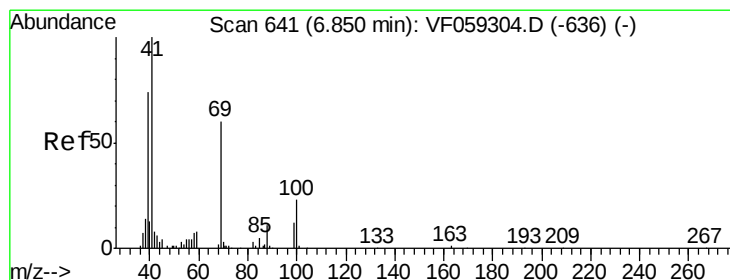
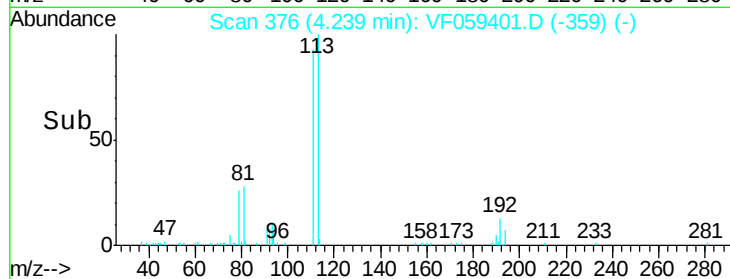
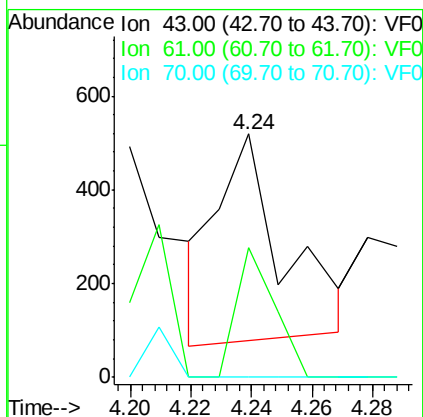
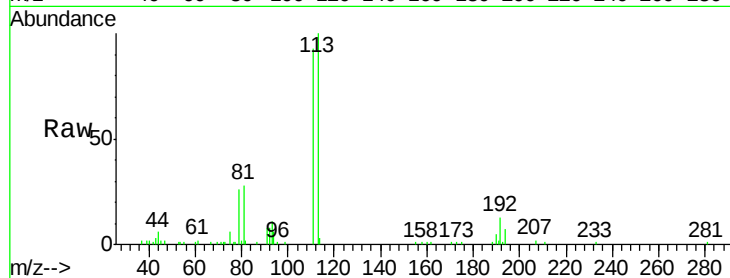




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.24 min Scan# 376
Delta R.T. -0.04 min
Lab File: VF059401.D
Acq: 2 Jul 2018 21:46

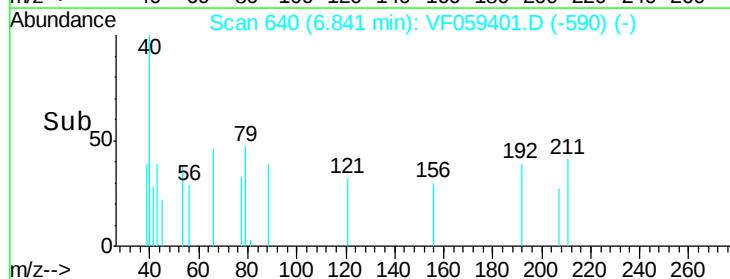
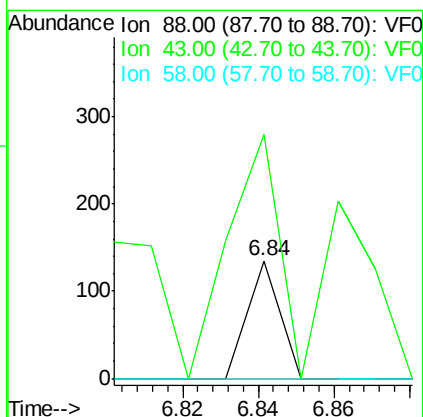
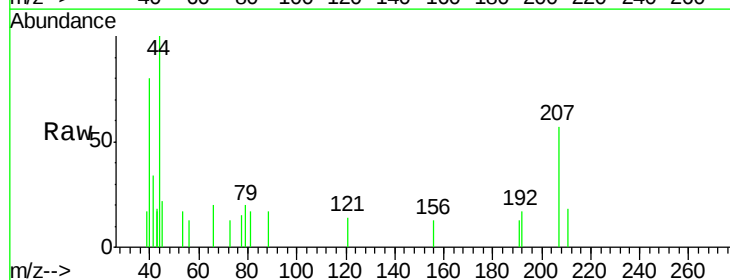
Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)RE

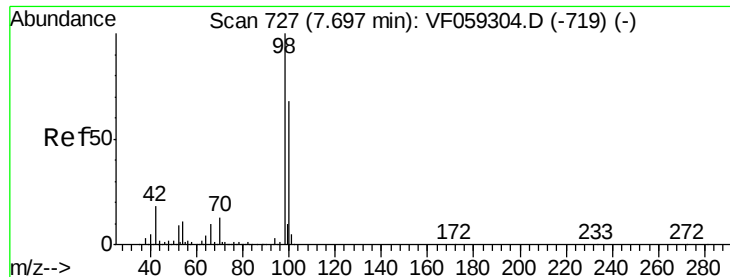
Tot Ion: 43 Resp: 672
Ion Ratio Lower Upper
43 100
61 53.2 50.1 75.1
70 0.0 6.2 9.4#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.84 min Scan# 640
Delta R.T. -0.01 min
Lab File: VF059401.D
Acq: 2 Jul 2018 21:46

Tgt Ion: 88 Resp: 80
Ion Ratio Lower Upper
88 100
43 206.7 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 63.48 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_F

ClientSampleId :

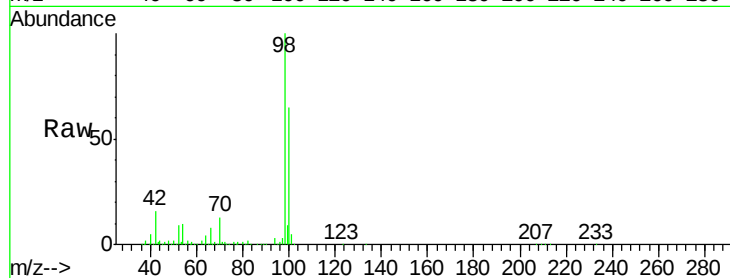
CF-7(3.0)RE

Tot Ion: 98 Resp: 376804

Ion Ratio Lower Upper

98 100

100 65.0 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.69

150000

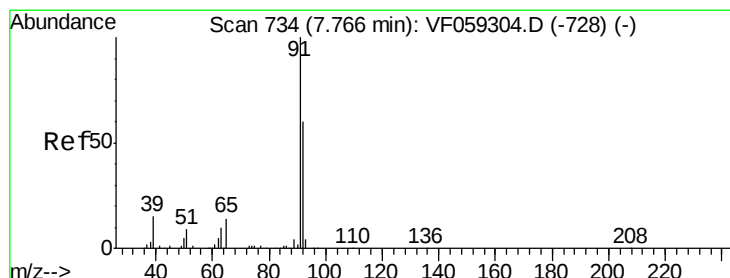
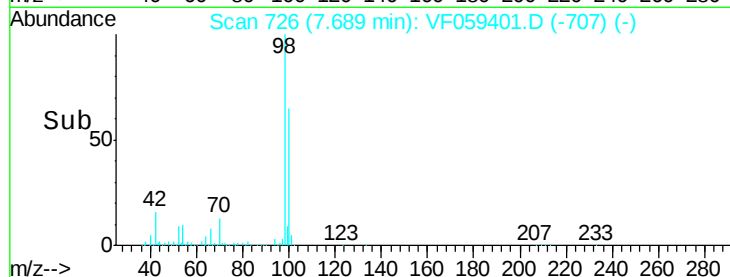
100000

50000

0

Time-->

7.60 7.70 7.80



#58

2-Chloroethyl Vinyl ether

Concen: 2.16 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059401.D

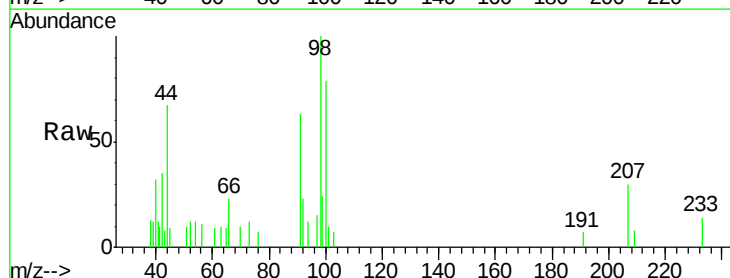
Acq: 2 Jul 2018 21:46

Tgt Ion: 63 Resp: 370

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

300

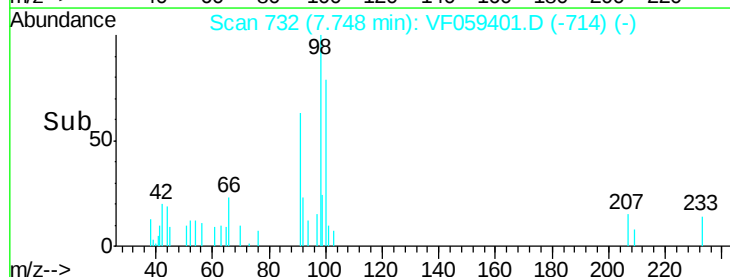
200

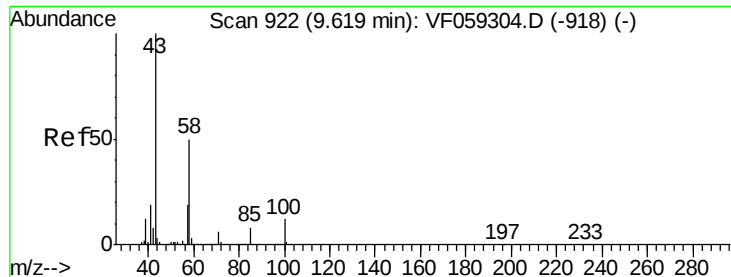
100

0

Time-->

7.70 7.75 7.80

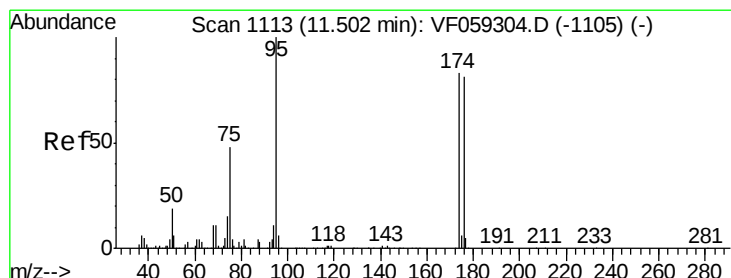
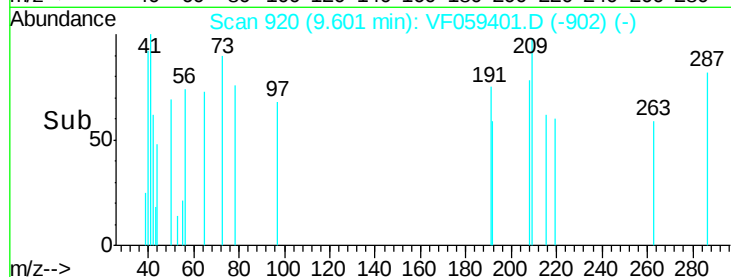
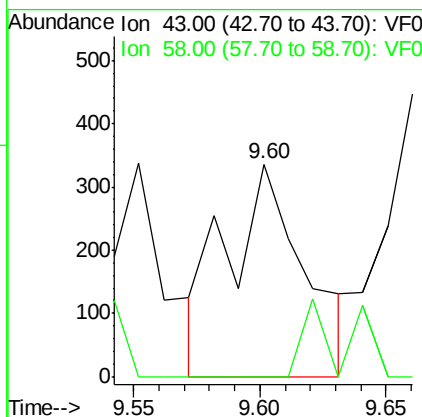
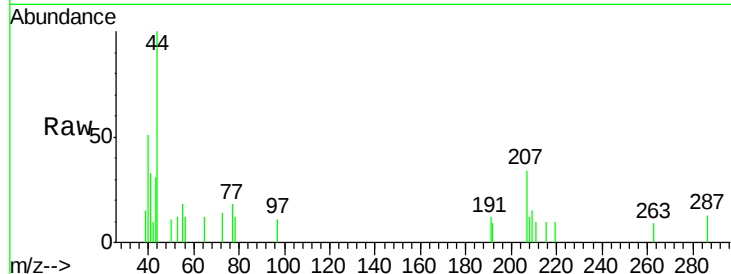




#59
2-Hexanone
Concen: Below Cal
RT: 9.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: VF059401.D
Acq: 2 Jul 2018 21:46

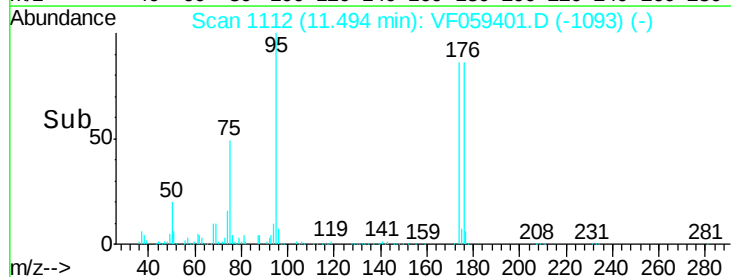
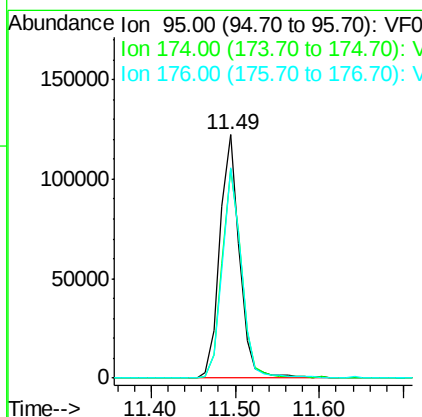
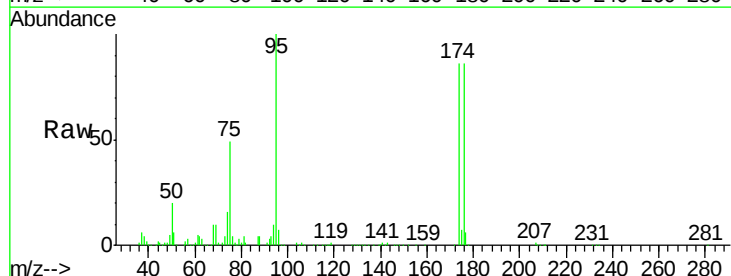
Instrument :
MSVOA_F
ClientSampleId :
CF-7(3.0)RE

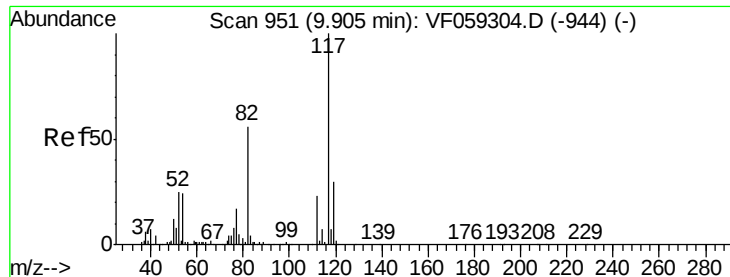
Tot Ion: 43 Resp: 721
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 59.64 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059401.D
Acq: 2 Jul 2018 21:46

Tgt Ion: 95 Resp: 199709
Ion Ratio Lower Upper
95 100
174 86.0 0.0 165.2
176 86.2 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: VF059401.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_F

ClientSampleId :

CF-7(3.0)RE

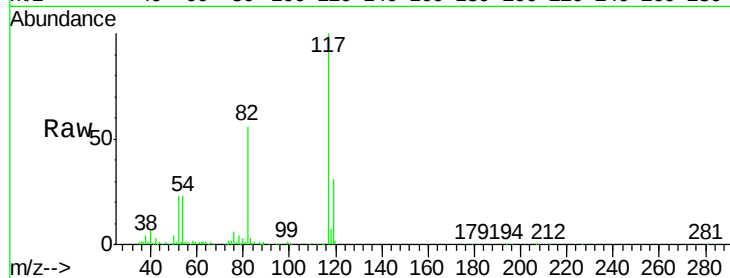
Tot Ion:117 Resp: 335763

Ion Ratio Lower Upper

117 100

82 55.6 44.6 66.8

119 31.3 24.1 36.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

200000

150000

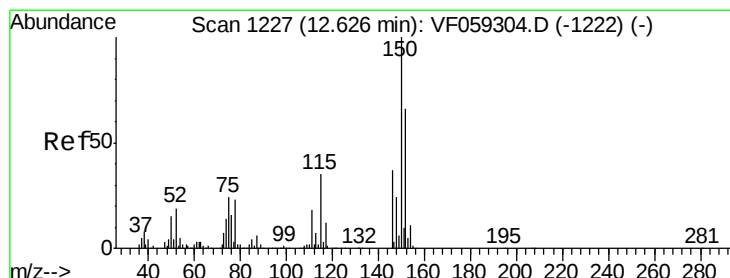
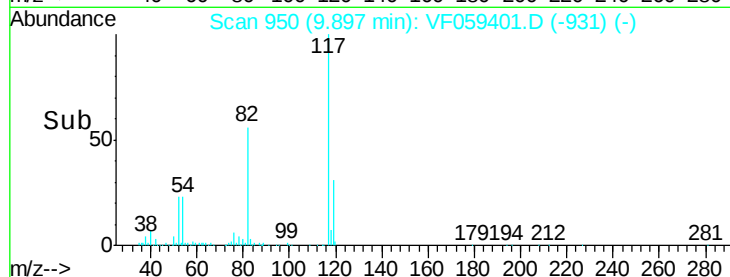
100000

50000

0

9.80 9.90 10.00

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

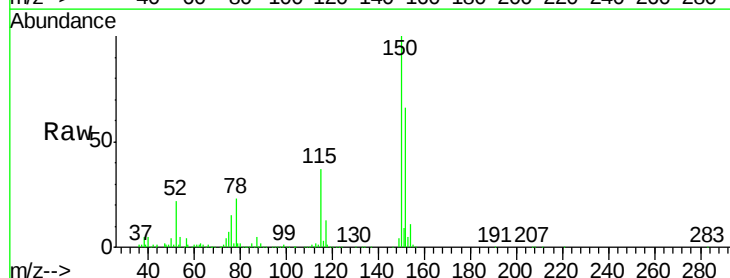
Tgt Ion:152 Resp: 204523

Ion Ratio Lower Upper

152 100

115 55.3 27.1 81.3

150 150.8 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

300000

250000

200000

150000

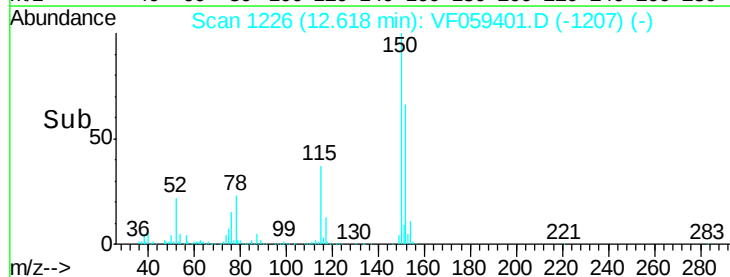
100000

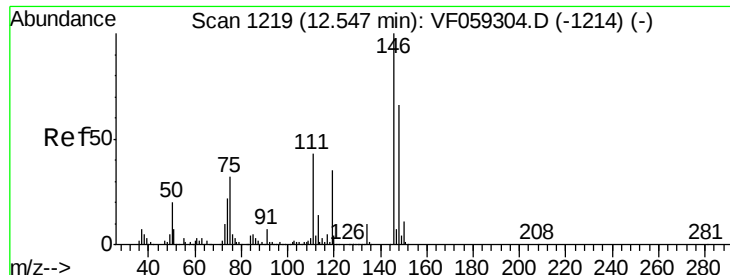
50000

0

12.50 12.60 12.70

Time-->





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059401.D

Acq: 2 Jul 2018 21:46

Instrument :

MSVOA_F

ClientSampleId :

CF-7(3.0)RE

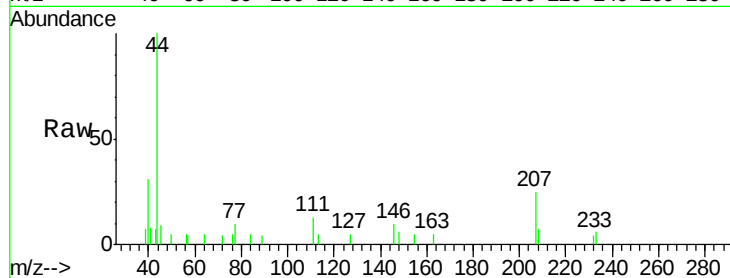
Tot Ion:146 Resp: 298

Ion Ratio Lower Upper

146 100

111 138.7 21.4 64.2#

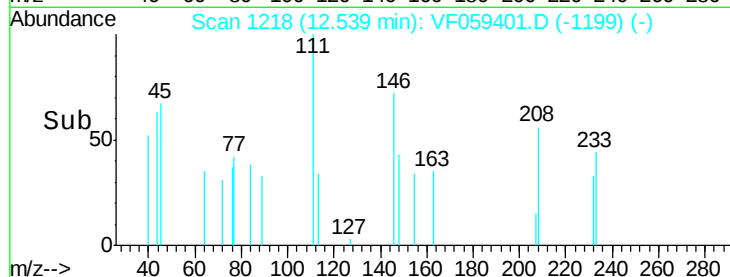
148 60.1 32.8 98.4



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



Time--> 12.50 12.55