

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059458.D
 Acq On : 6 Jul 2018 19:13
 Operator : VA/AP
 Sample : J3868-03
 Misc : 5.91g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-7-S

Quant Time: Jul 07 01:51:21 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	5.01	168	204602	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.73	114	328220	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.89	117	337793	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	223099	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.98	65	175173	66.27	ug/l	-0.02
Spiked Amount				50.000		
Recovery						132.54%
35) Dibromofluoromethane	4.27	113	156667	65.33	ug/l	-0.01
Spiked Amount				50.000		
Recovery						130.66%
50) Toluene-d8	7.68	98	324448	54.64	ug/l	-0.02
Spiked Amount				50.000		
Recovery						109.28%
62) 4-Bromofluorobenzene	11.49	95	195596	58.40	ug/l	-0.01
Spiked Amount				50.000		
Recovery						116.80%

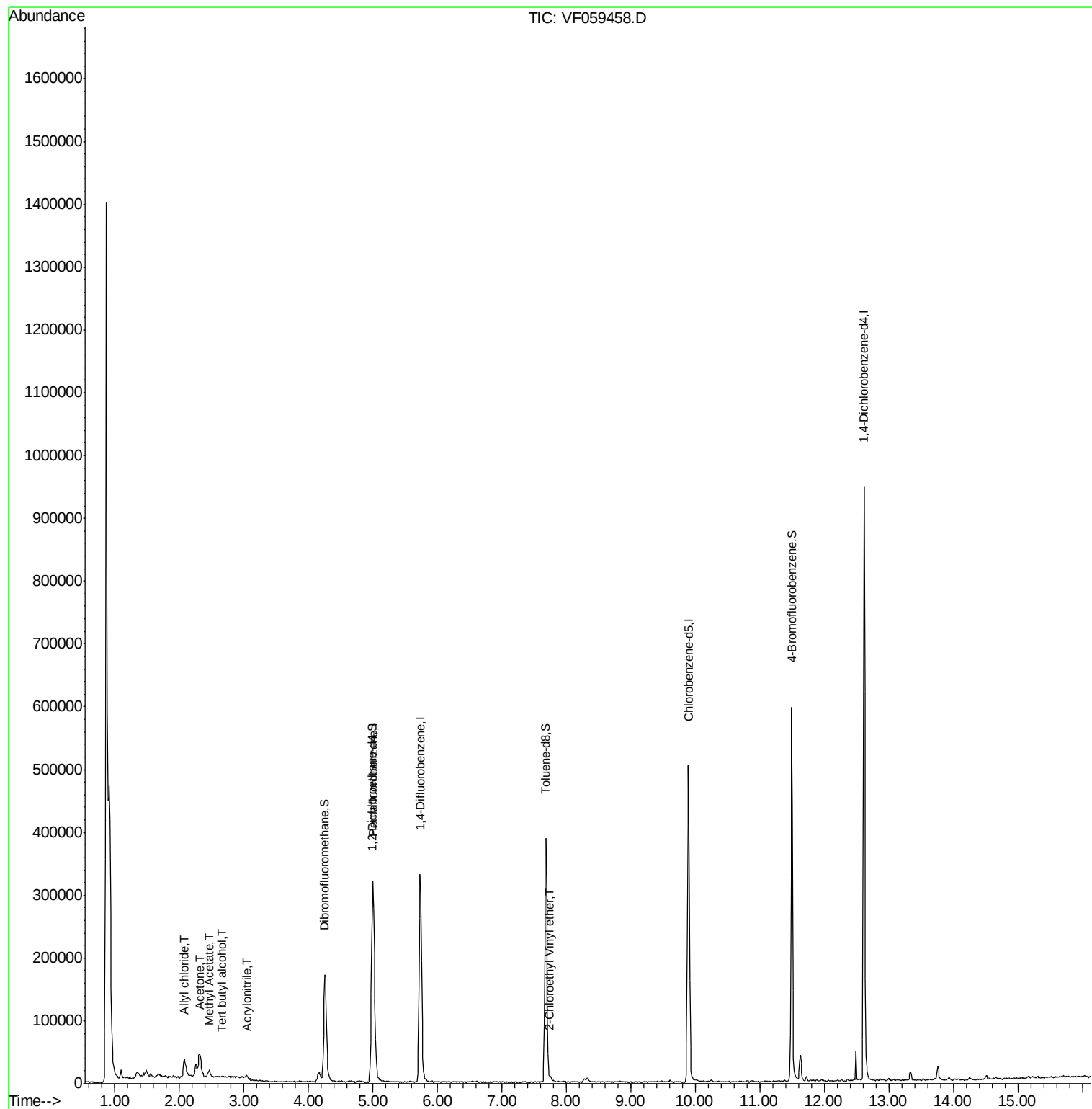
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.33	94	823	Below Cal	#	52
11) Tert butyl alcohol	2.65	59	415	2.358	ug/l #	66
13) Acrolein	1.99	56	612	Below Cal		85
14) Allyl chloride	2.08	41	15543	6.864	ug/l #	91
15) Acrylonitrile	3.04	53	498	1.607	ug/l #	59
16) Acetone	2.32	43	51187	70.199	ug/l	94
18) Methyl Acetate	2.46	43	4876	2.993	ug/l #	61
20) Methylene Chloride	2.26	84	6984	Below Cal	#	93
28) Bromochloromethane	3.95	49	64	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	1029	Below Cal	#	67
37) Ethyl Acetate	4.25	43	381	Below Cal	#	26
49) 1,4-Dioxane	6.97	88	65	Below Cal	#	20
58) 2-Chloroethyl Vinyl ether	7.74	63	675	3.934	ug/l	100
59) 2-Hexanone	9.61	43	1264	Below Cal		77
87) 1,3-Dichlorobenzene	12.55	146	428	Below Cal		83

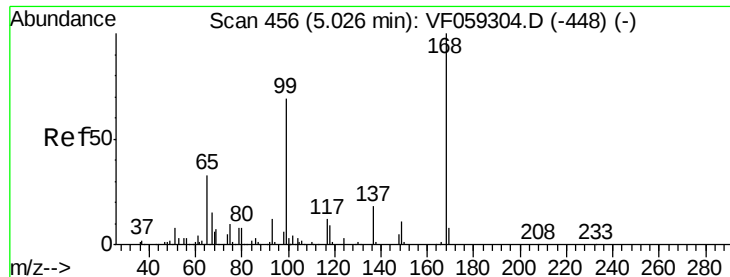
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

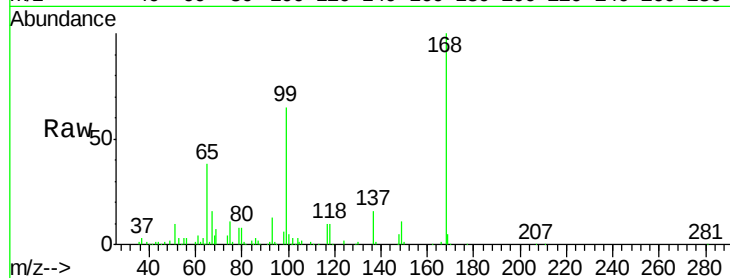
TP-7-S

Tot Ion:168 Resp: 204602

Ion Ratio Lower Upper

168 100

99 65.4 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

5.01

80000

60000

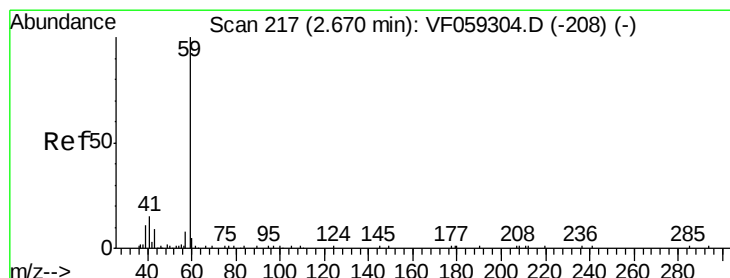
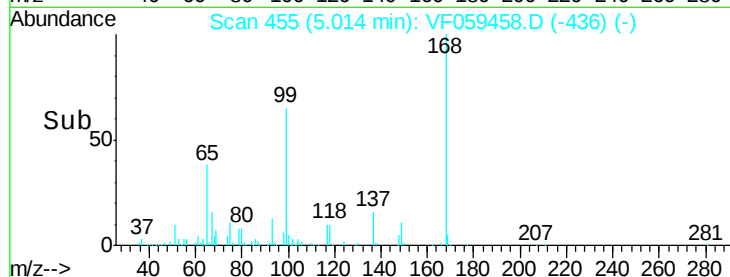
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#11

Tert butyl alcohol

Concen: 2.358 ug/l

RT: 2.65 min Scan# 215

Delta R.T. -0.02 min

Lab File: VF059458.D

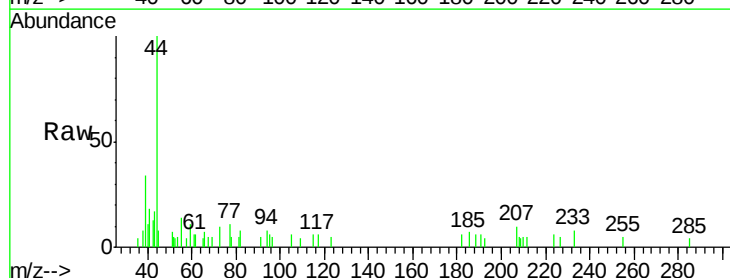
Acq: 6 Jul 2018 19:13

Tgt Ion: 59 Resp: 415

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.65

400

300

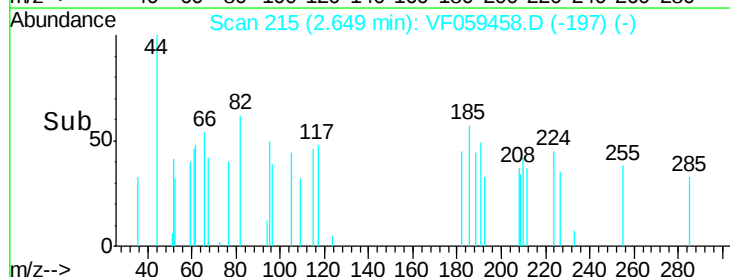
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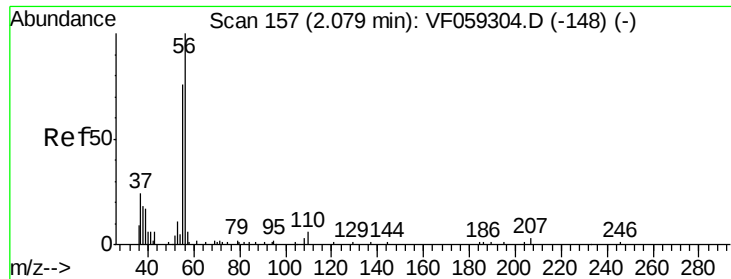
100

0

2.62 2.64 2.66 2.68

Time-->





#13

Acrolein

Concen: Below Cal

RT: 1.99 min Scan# 148

Delta R.T. -0.09 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

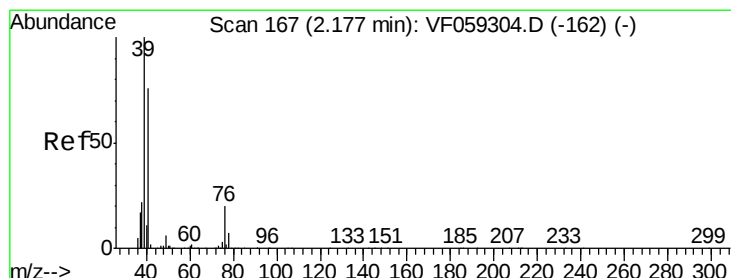
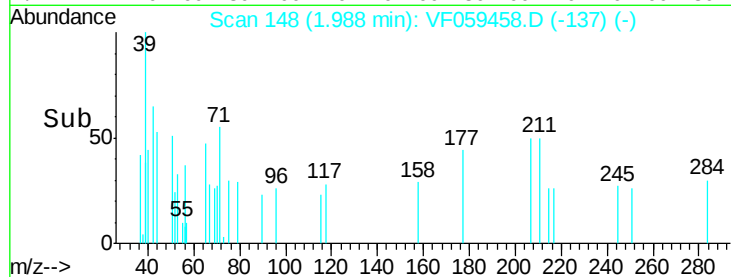
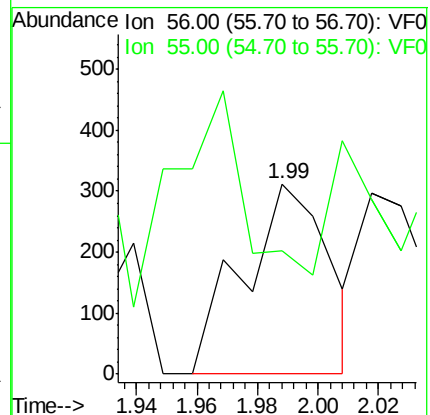
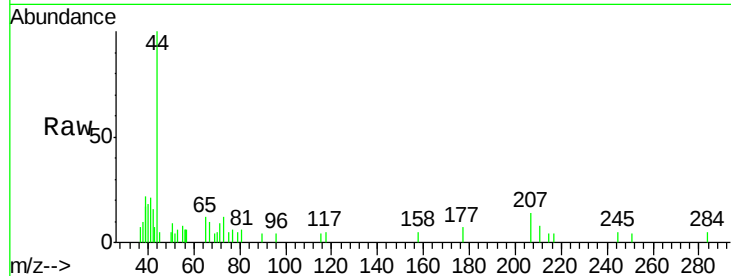
Instrument :
MSVOA_F
ClientSampled :
TP-7-S

Tot Ion: 56 Resp: 612

Ion Ratio Lower Upper

56 100

55 65.1 62.4 93.6



#14

Allyl chloride

Concen: 6.864 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.10 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

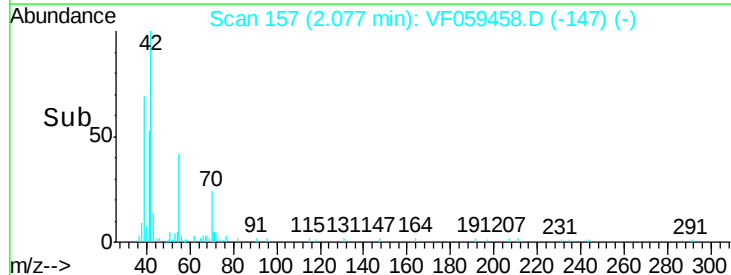
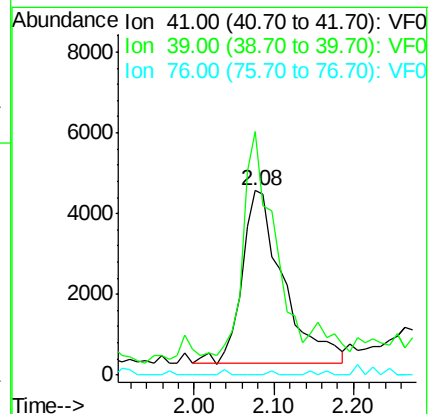
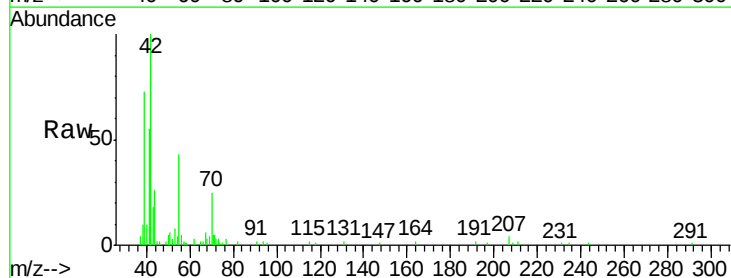
Tgt Ion: 41 Resp: 15543

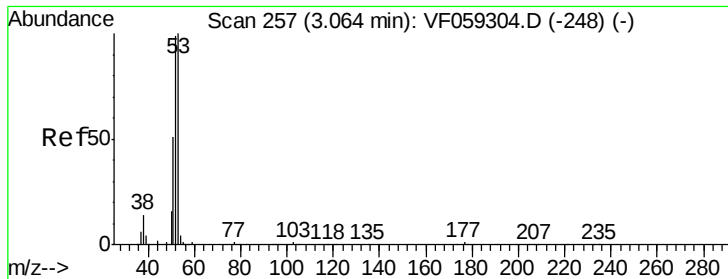
Ion Ratio Lower Upper

41 100

39 132.2 105.6 158.4

76 0.0 21.6 32.4#





#15

Acrylonitrile

Concen: 1.607 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.02 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

TP-7-S

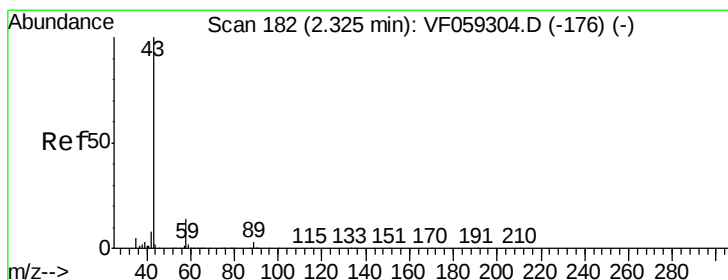
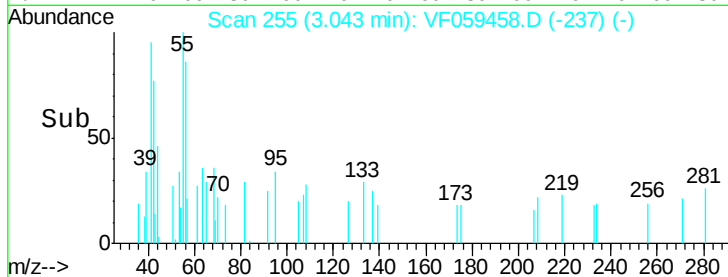
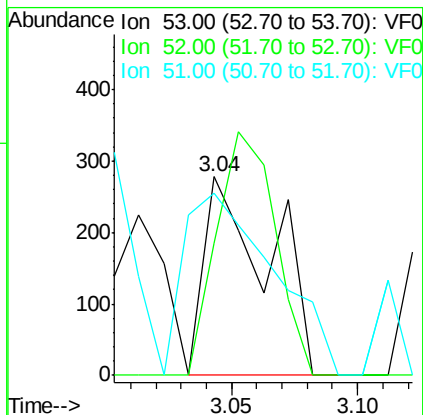
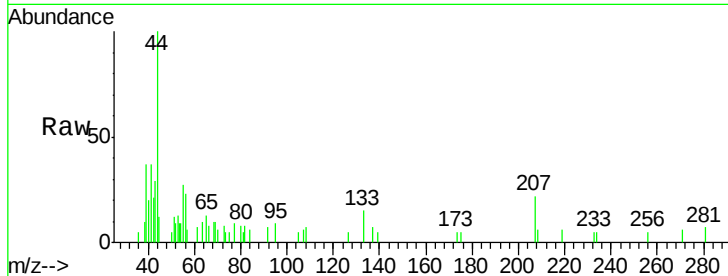
Tot Ion: 53 Resp: 498

Ion Ratio Lower Upper

53 100

52 39.2 79.2 118.8#

51 53.8 40.9 61.3



#16

Acetone

Concen: 70.199 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059458.D

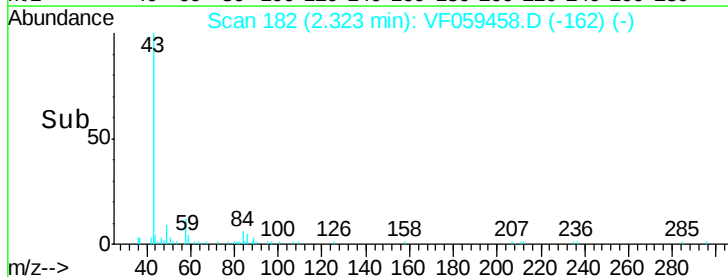
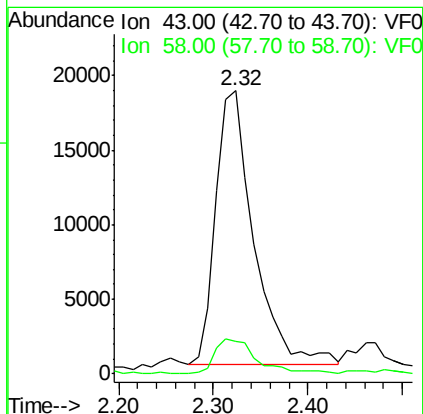
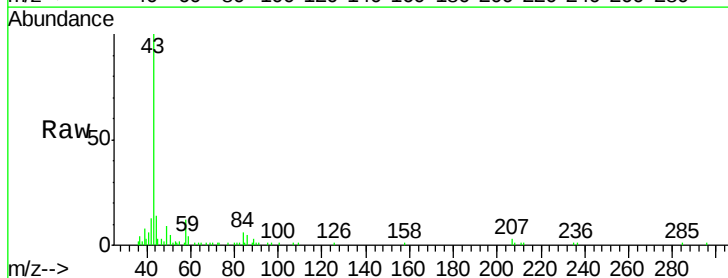
Acq: 6 Jul 2018 19:13

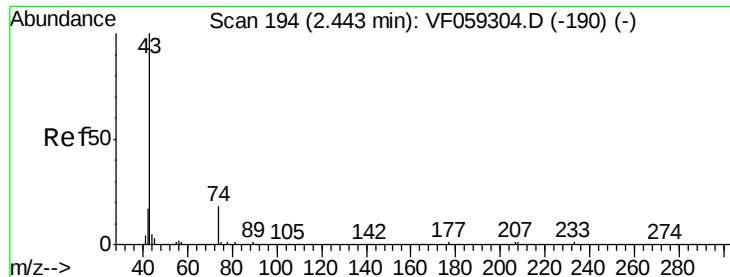
Tgt Ion: 43 Resp: 51187

Ion Ratio Lower Upper

43 100

58 11.6 11.4 17.0

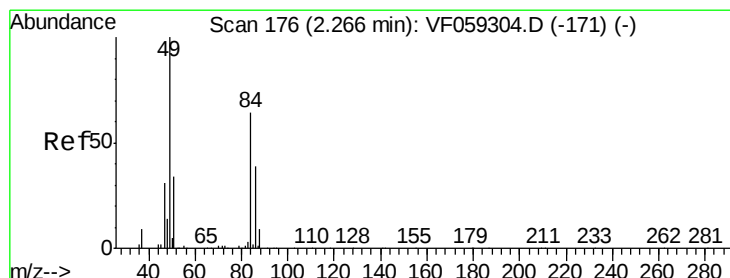
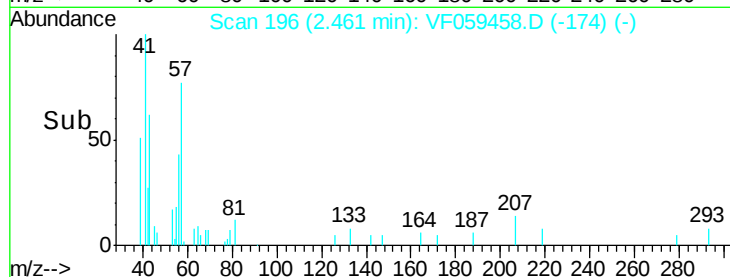
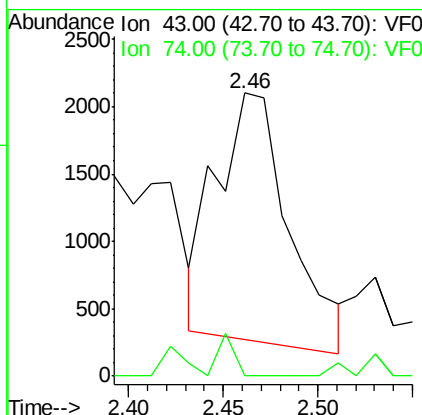
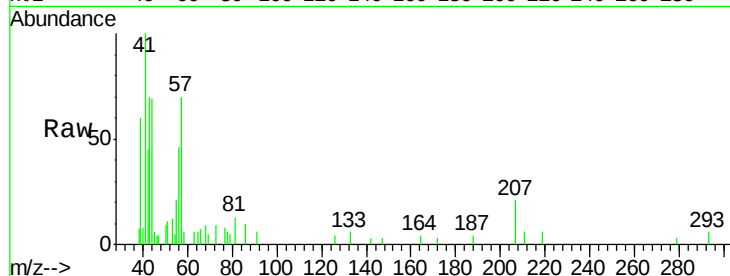




#18
Methvl Acetate
Concen: 2.993 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.02 min
Lab File: VF059458.D
Acq: 6 Jul 2018 19:13

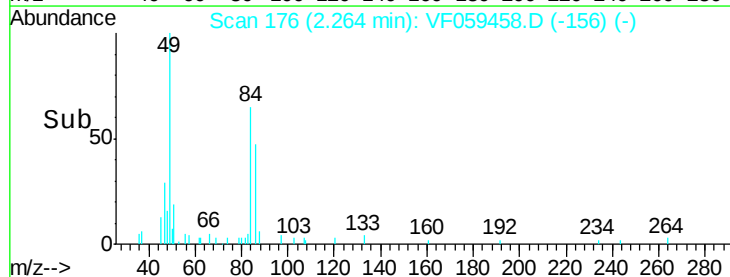
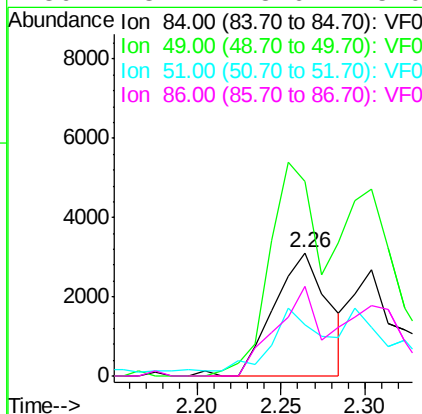
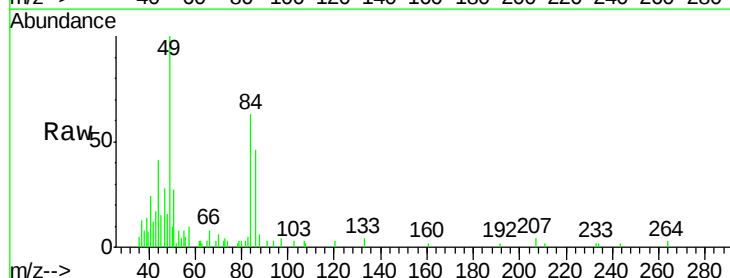
Instrument :
MSVOA_F
ClientSampleId :
TP-7-S

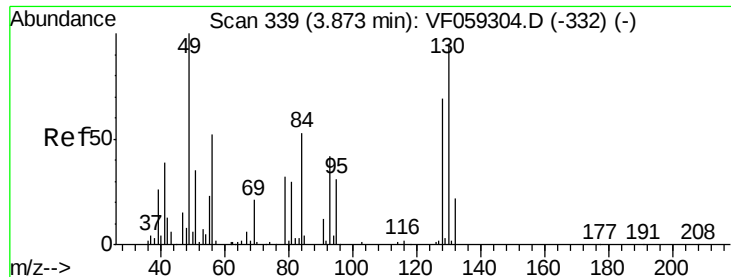
Tot Ion: 43 Resp: 4876
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059458.D
Acq: 6 Jul 2018 19:13

Tgt Ion: 84 Resp: 6984
Ion Ratio Lower Upper
84 100
49 158.2 126.5 189.7
51 42.1 42.9 64.3#
86 73.2 48.6 73.0#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.95 min Scan# 347

Delta R.T. 0.08 min

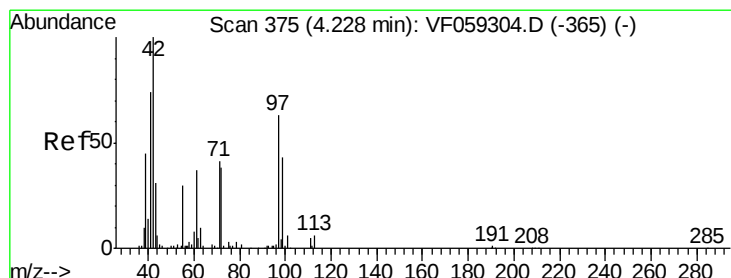
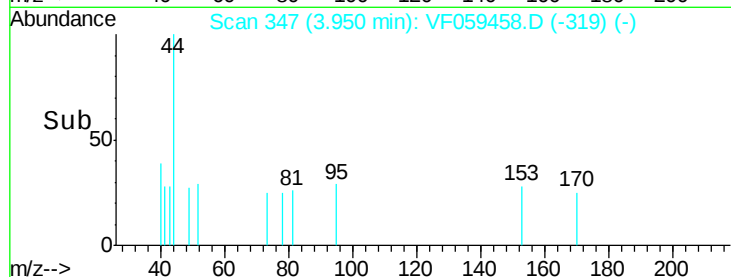
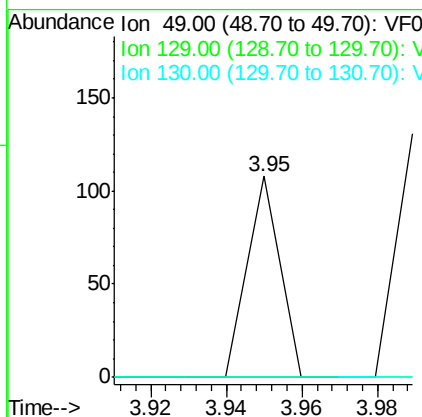
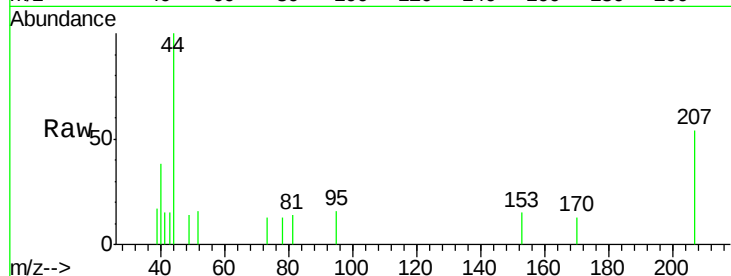
Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

Instrument :
MSVOA_F
ClientSampleId :
TP-7-S

Tot Ion: 49 Resp: 64

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: 4.24 min Scan# 376

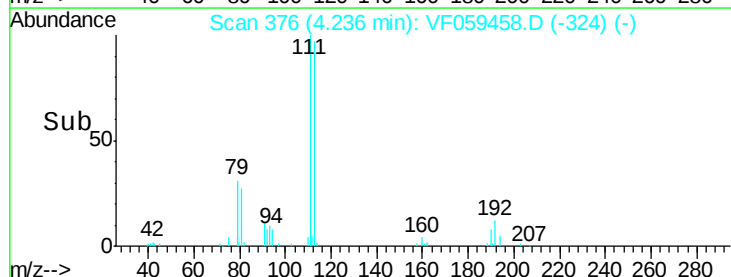
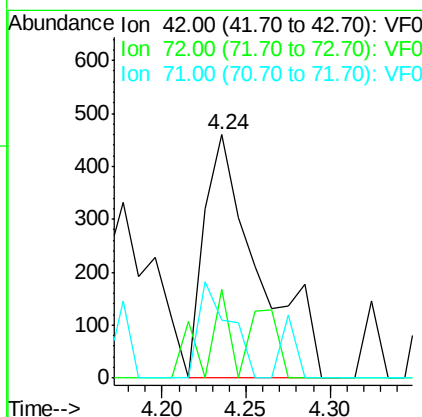
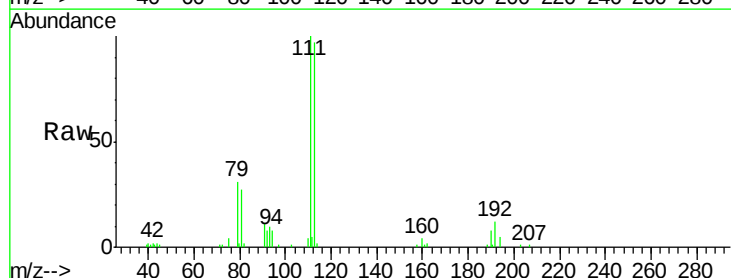
Delta R.T. 0.01 min

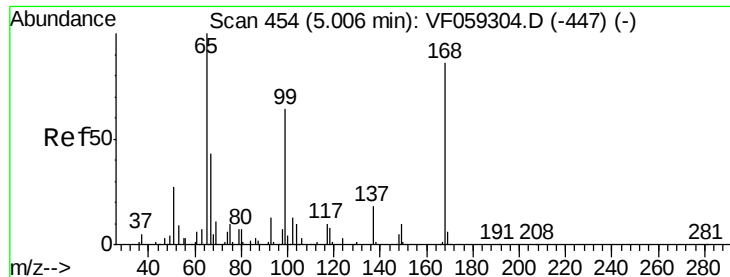
Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

Tgt Ion: 42 Resp: 1029

Ion	Ratio	Lower	Upper
42	100		
72	15.8	30.5	45.7#
71	22.7	32.5	48.7#





#33

1,2-Dichloroethane-d4

Concen: 66.267 ug/l

RT: 4.98 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

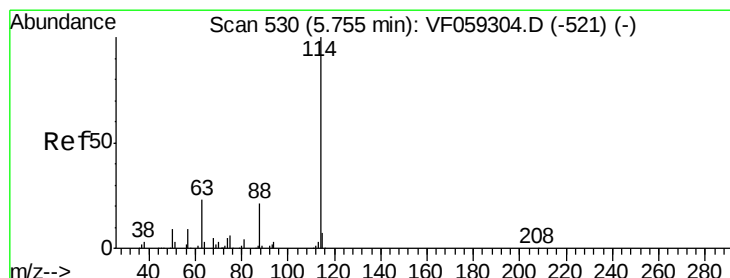
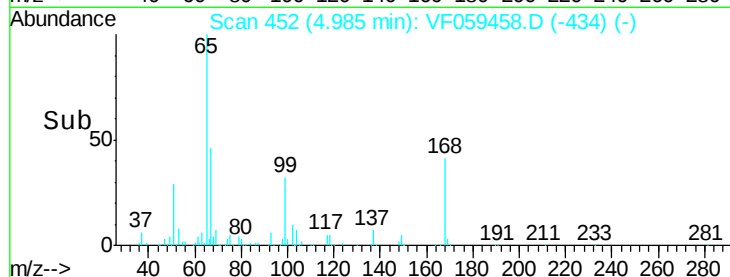
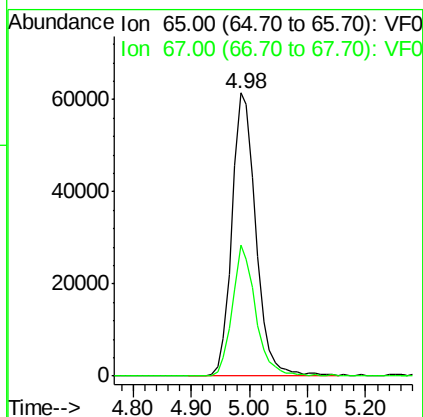
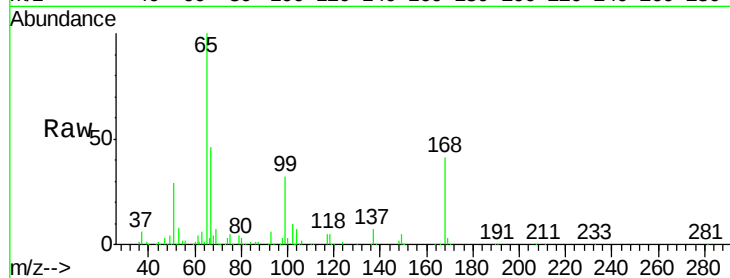
TP-7-S

Tot Ion: 65 Resp: 175173

Ion Ratio Lower Upper

65 100

67 46.3 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

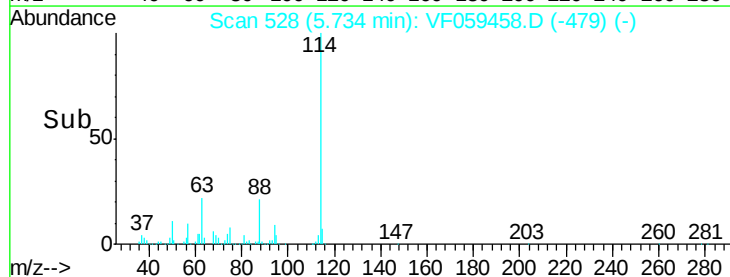
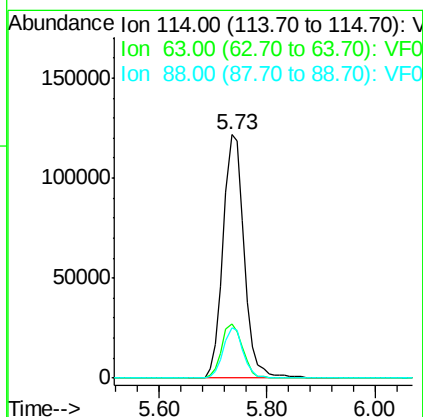
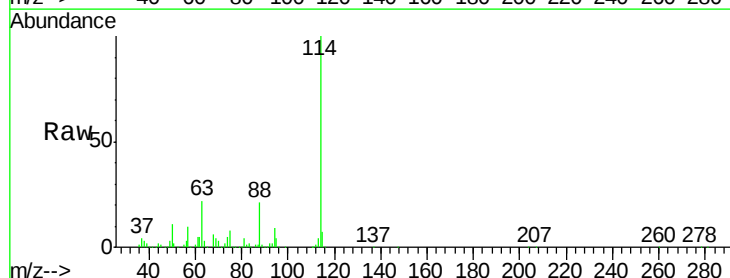
Tgt Ion: 114 Resp: 328220

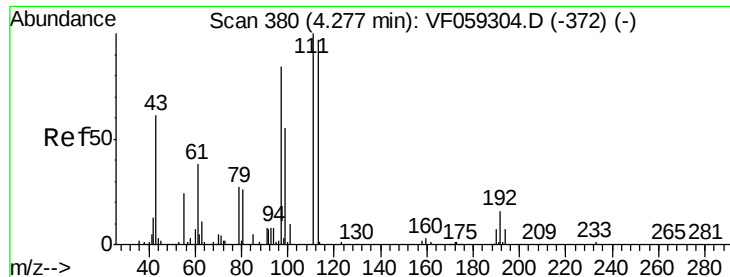
Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.8

88 20.9 0.0 41.2

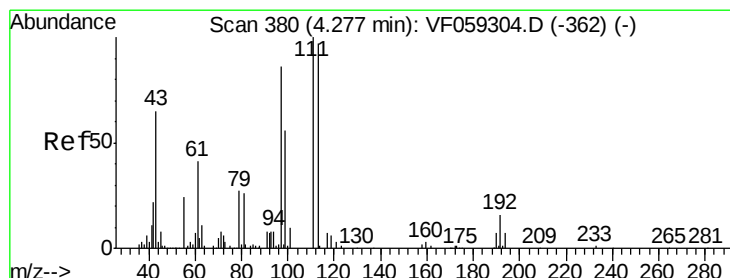
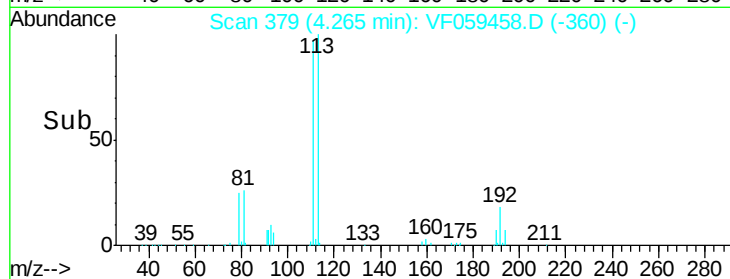
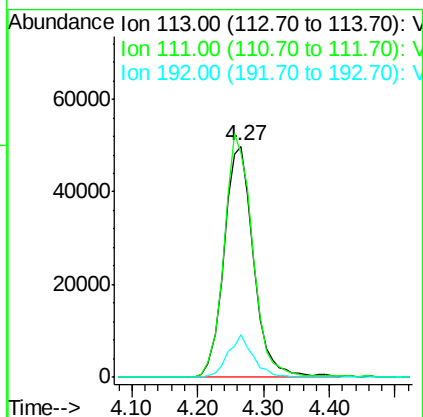
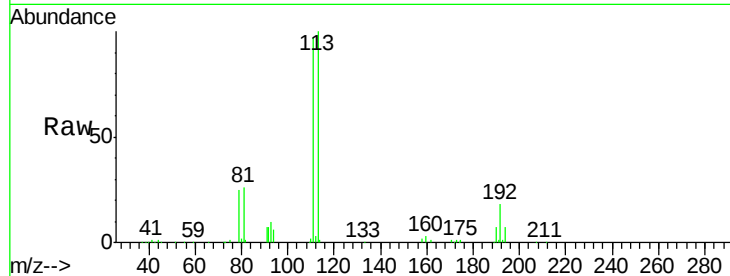




#35
Dibromofluoromethane
Concen: 65.327 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF059458.D
Acq: 6 Jul 2018 19:13

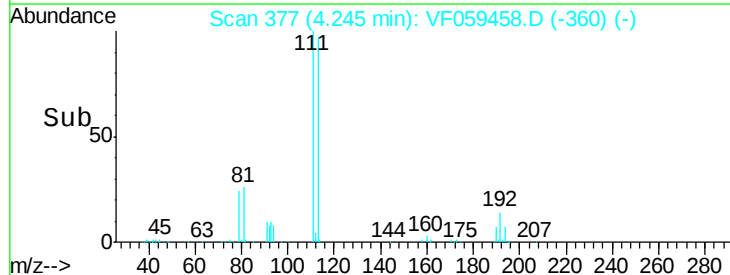
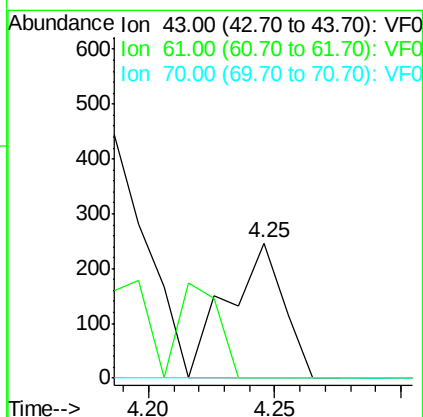
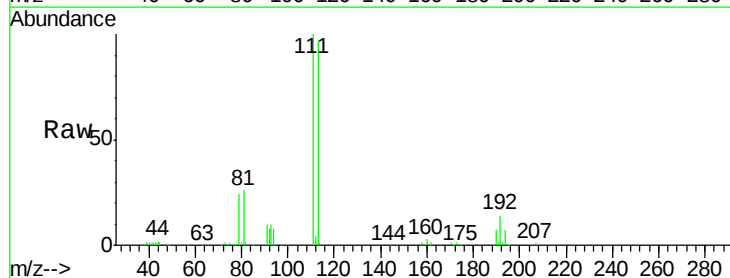
Instrument :
MSVOA_F
ClientSampleId :
TP-7-S

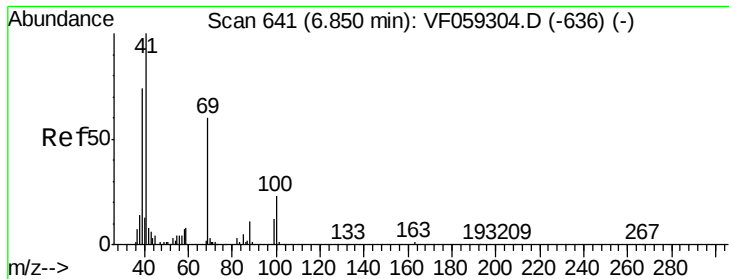
Tot Ion	Ratio	Lower	Upper
113	100		
111	97.1	82.1	123.1
192	18.2	13.0	19.6



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. -0.03 min
Lab File: VF059458.D
Acq: 6 Jul 2018 19:13

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





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.97 min Scan# 653

Delta R.T. 0.12 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

TP-7-S

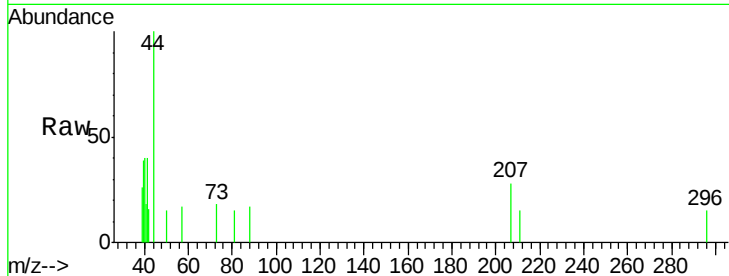
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

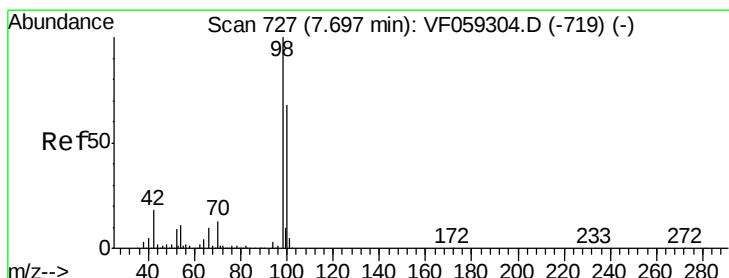
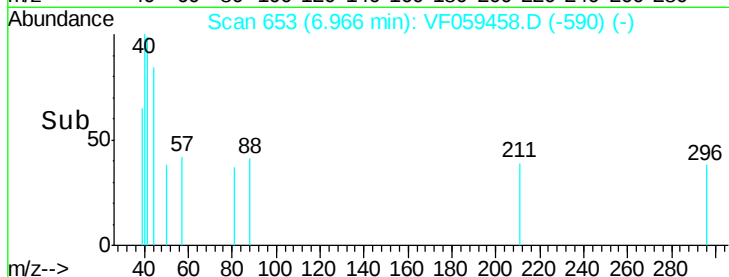
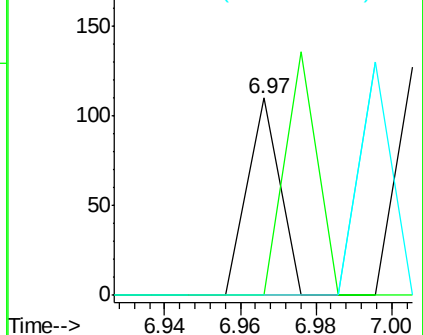
58 0.0 46.6 69.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 54.642 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059458.D

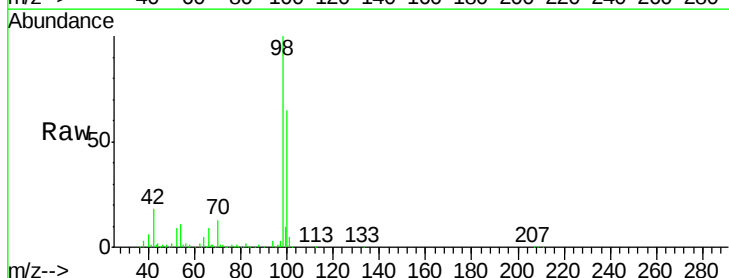
Acq: 6 Jul 2018 19:13

Tgt Ion: 98 Resp: 324448

Ion Ratio Lower Upper

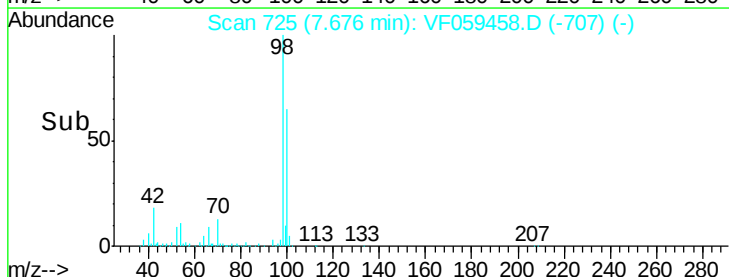
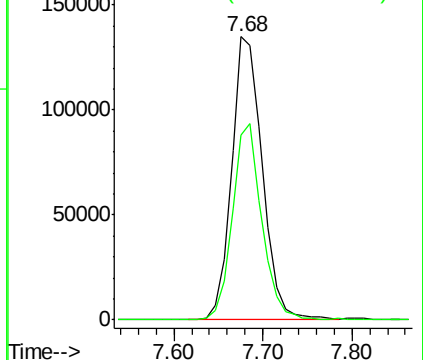
98 100

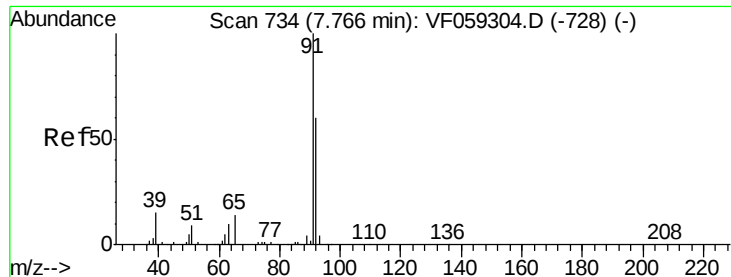
100 65.5 54.6 82.0



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: 3.934 ug/l

RT: 7.74 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_F

ClientSampled :

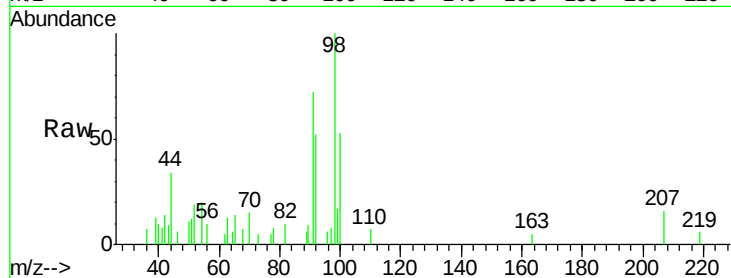
TP-7-S

Tot Ion: 63 Resp: 675

Ion Ratio Lower Upper

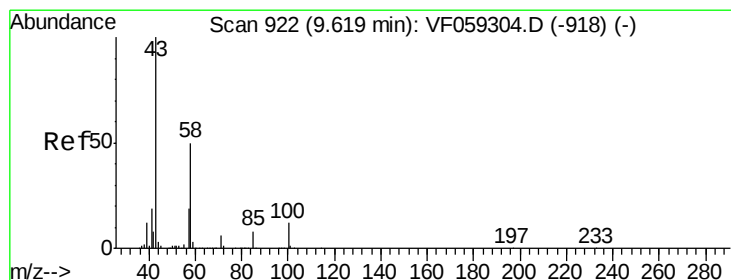
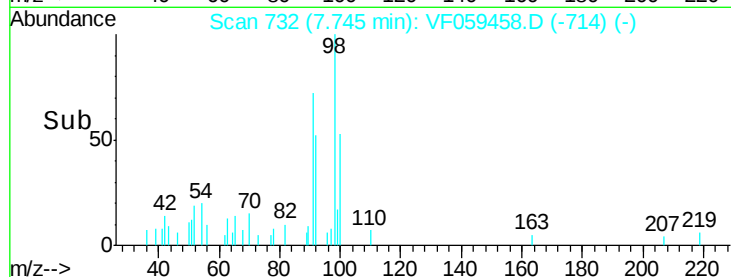
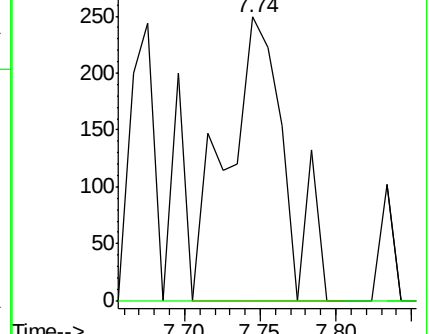
63 100

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: 9.61 min Scan# 921

Delta R.T. -0.01 min

Lab File: VF059458.D

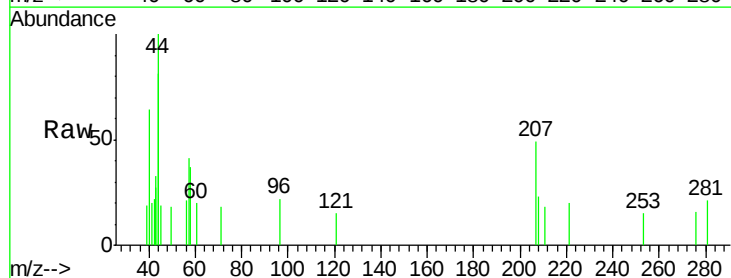
Acq: 6 Jul 2018 19:13

Tgt Ion: 43 Resp: 1264

Ion Ratio Lower Upper

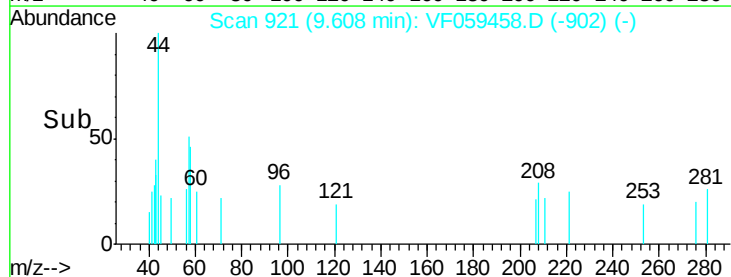
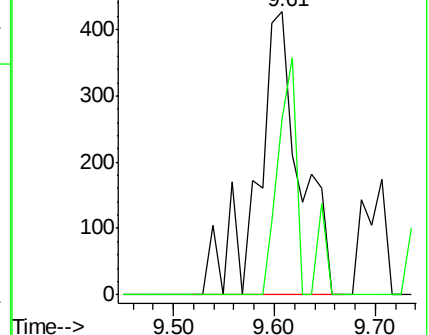
43 100

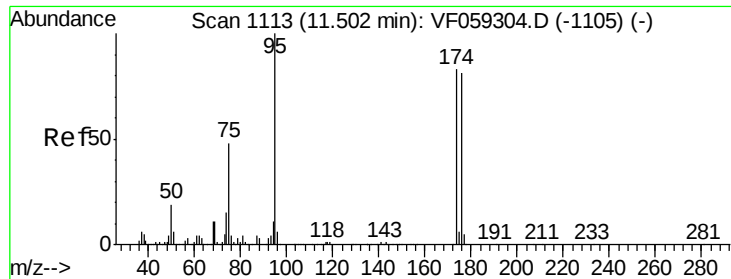
58 62.1 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 58.397 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

TP-7-S

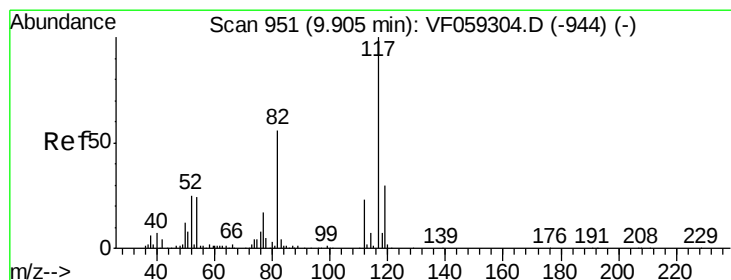
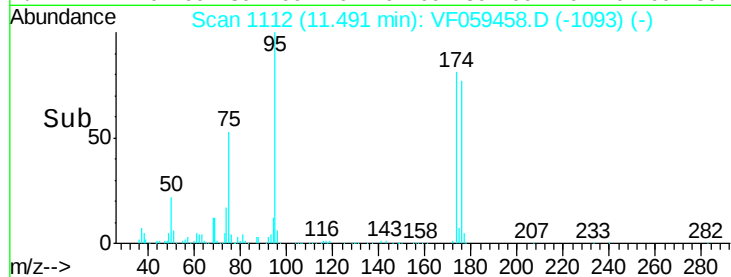
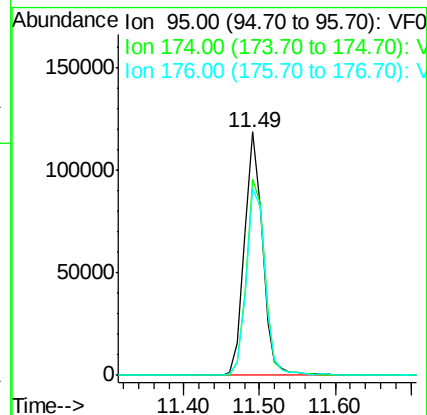
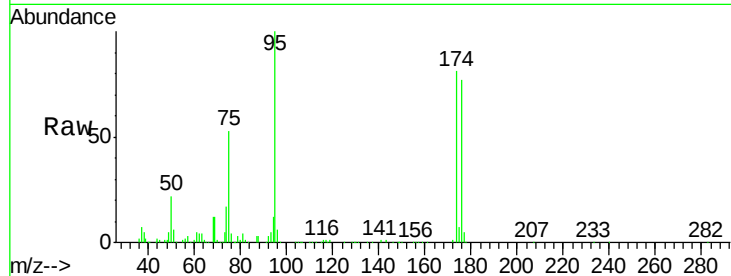
Tot Ion: 95 Resp: 195596

Ion Ratio Lower Upper

95 100

174 80.6 0.0 165.2

176 77.0 0.0 161.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.89 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059458.D

Acq: 6 Jul 2018 19:13

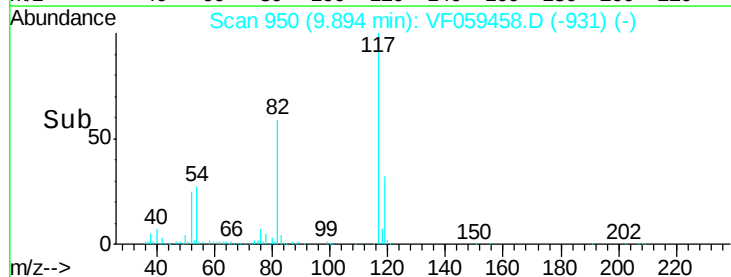
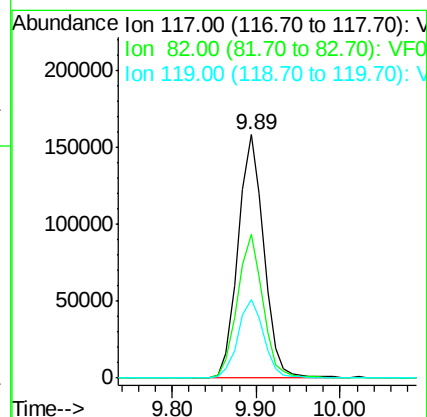
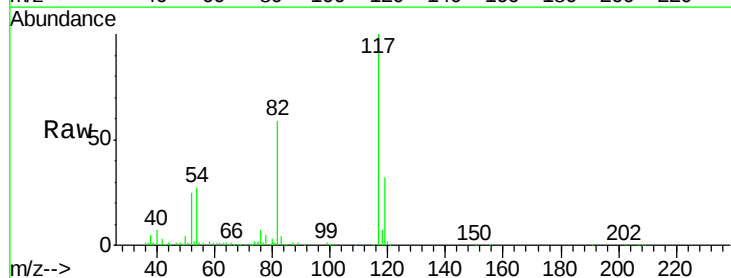
Tgt Ion: 117 Resp: 337793

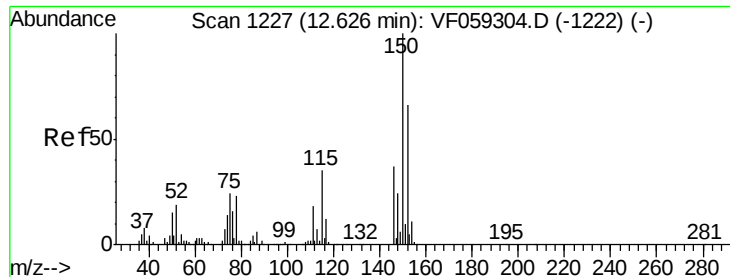
Ion Ratio Lower Upper

117 100

82 58.9 44.6 66.8

119 32.3 24.1 36.1



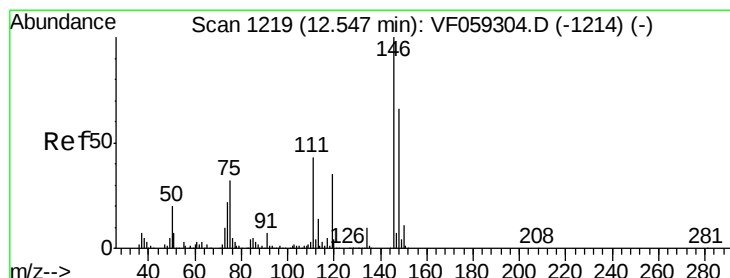
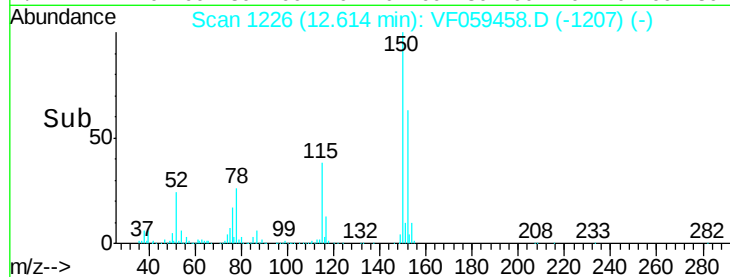
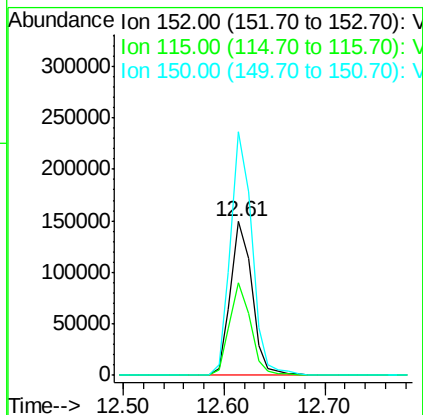
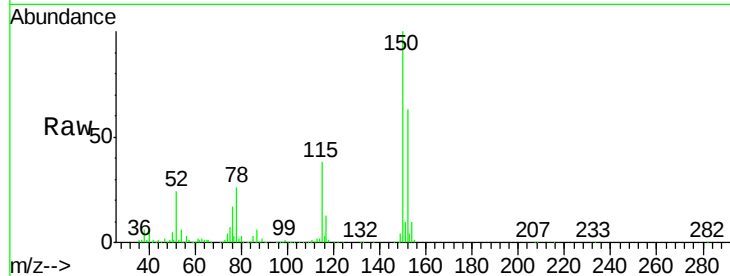


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059458.D
Acq: 6 Jul 2018 19:13

Instrument :
MSVOA_F
ClientSampleId :
TP-7-S

Tot Ion	152	Resp	223099
Ion	Ratio	Lower	Upper
152	100		
115	60.0	27.1	81.3
150	158.3	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: VF059458.D
Acq: 6 Jul 2018 19:13

Tgt Ion	146	Resp	428
Ion	Ratio	Lower	Upper
146	100		
111	49.3	21.4	64.2
148	82.6	32.8	98.4

