

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071018\
 Data File : VF059492.D
 Acq On : 10 Jul 2018 18:52
 Operator : VA/AP
 Sample : J3879-18RE
 Misc : 5.20g/5mL/MSVOA F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 11 00:57:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F070718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 07 06:35:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	206047	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.75	114	292937	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.90	117	258841	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	109200	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	125535	35.03	ug/l	0.02
Spiked Amount 50.000			Recovery	=	70.06%	
35) Dibromofluoromethane	4.28	113	109122	38.82	ug/l	0.02
Spiked Amount 50.000			Recovery	=	77.64%	
50) Toluene-d8	7.70	98	211783	32.03	ug/l	0.02
Spiked Amount 50.000			Recovery	=	64.06%	
62) 4-Bromofluorobenzene	11.50	95	93433	25.33	ug/l	0.02
Spiked Amount 50.000			Recovery	=	50.66%	

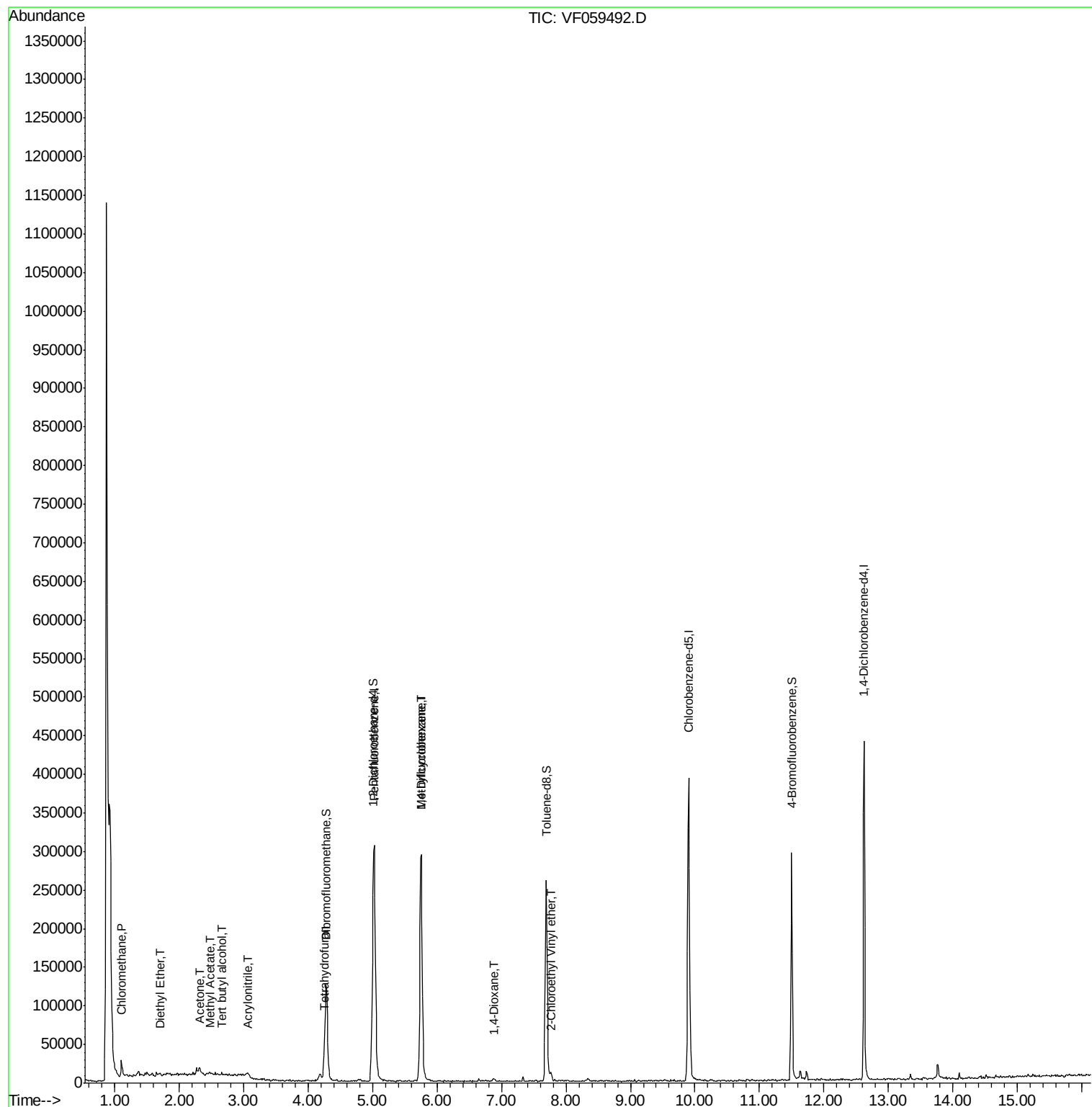
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	2141	1.496	ug/l #	72
8) Diethyl Ether	1.71	74	680	1.022	ug/l	54
11) Tert butyl alcohol	2.65	59	512	3.136	ug/l #	1
15) Acrylonitrile	3.07	53	982	3.294	ug/l #	60
16) Acetone	2.32	43	1788	3.336	ug/l #	60
18) Methyl Acetate	2.46	43	2353	1.891	ug/l #	89
20) Methylene Chloride	2.27	84	3134	Below Cal		85
29) Tetrahydrofuran	4.24	42	1053	3.076	ug/l #	45
39) Methylcyclohexane	5.75	83	4803	1.848	ug/l #	29
49) 1,4-Dioxane	6.90	88	190	28.225	ug/l #	56
58) 2-Chloroethyl Vinyl ether	7.79	63	945	4.937	ug/l	100

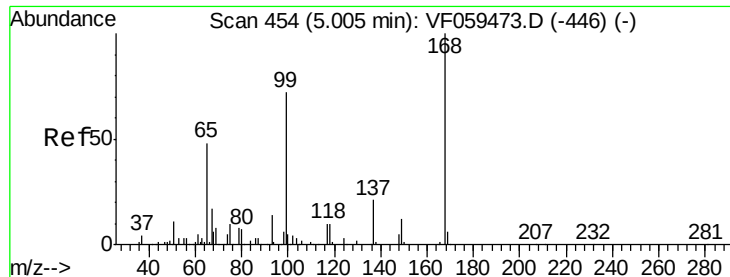
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jul 07 06:35:36 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.02 min

Lab File: VF059492.D

Acq: 10 Jul 2018 18:52

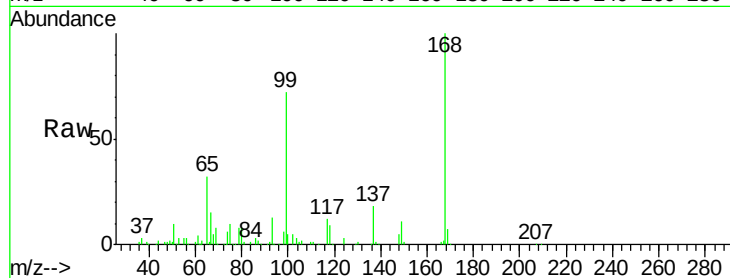
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 206047

Ion Ratio Lower Upper

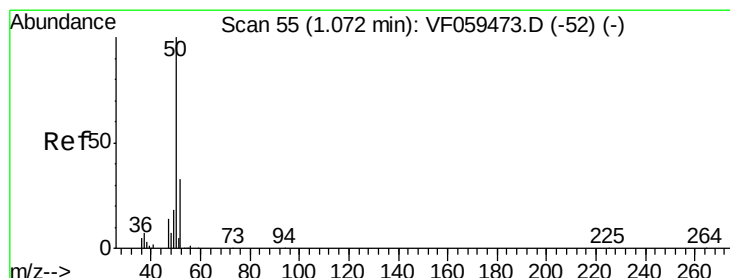
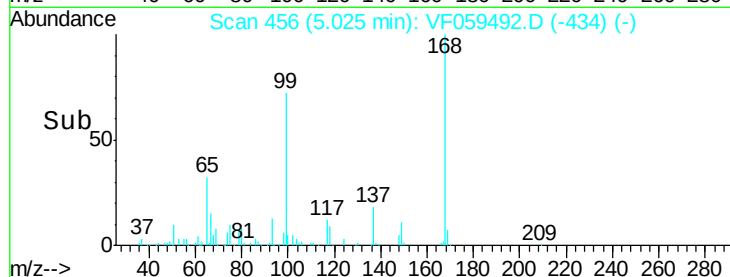
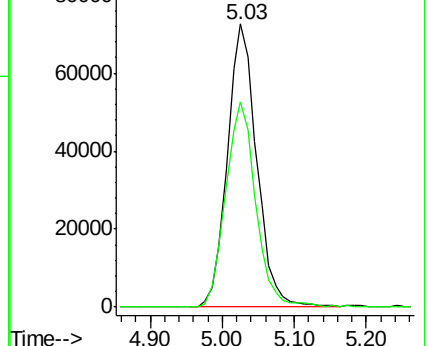
168 100

99 72.5 57.7 86.5



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.496 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.03 min

Lab File: VF059492.D

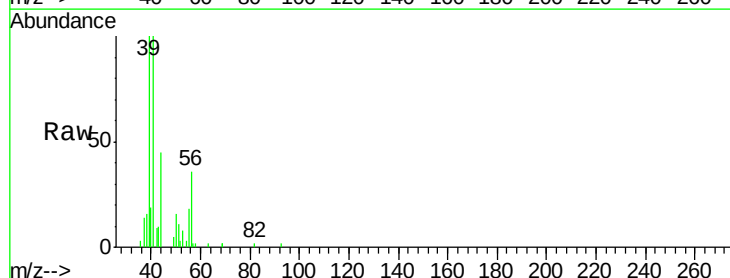
Acq: 10 Jul 2018 18:52

Tgt Ion: 50 Resp: 2141

Ion Ratio Lower Upper

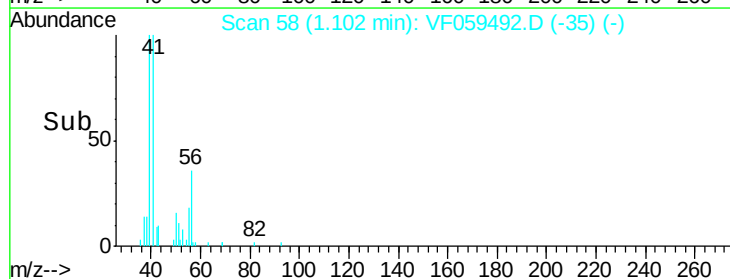
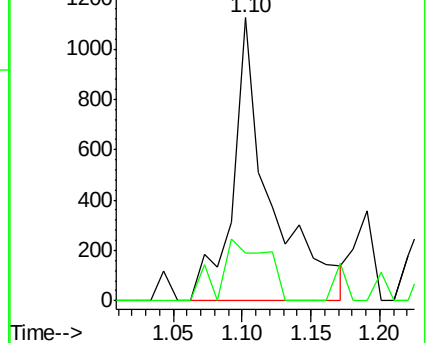
50 100

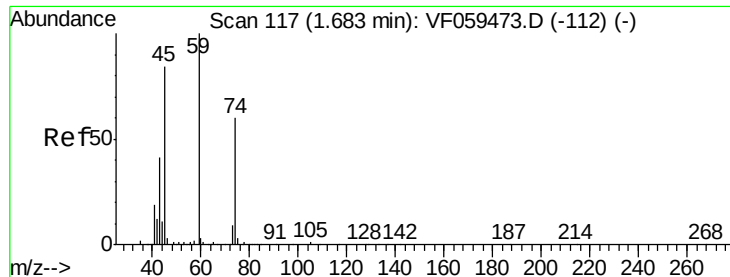
52 16.9 25.9 38.9#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#8

Diethyl Ether

Concen: 1.022 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.03 min

Lab File: VF059492.D

Acq: 10 Jul 2018 18:52

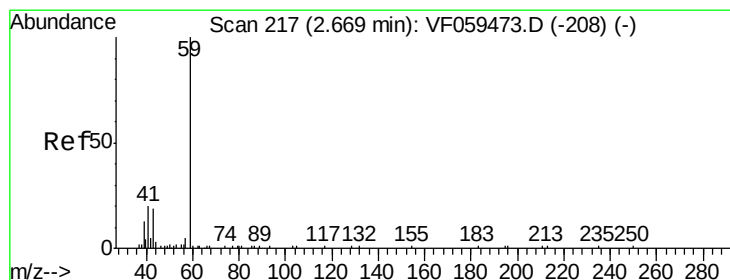
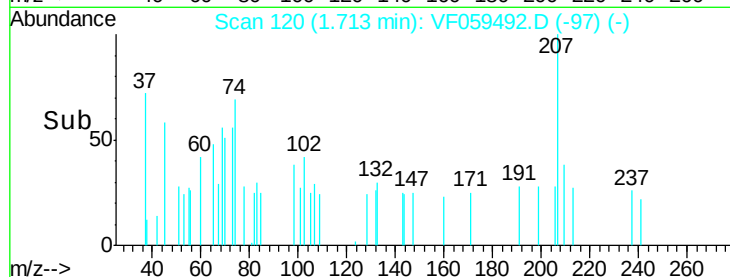
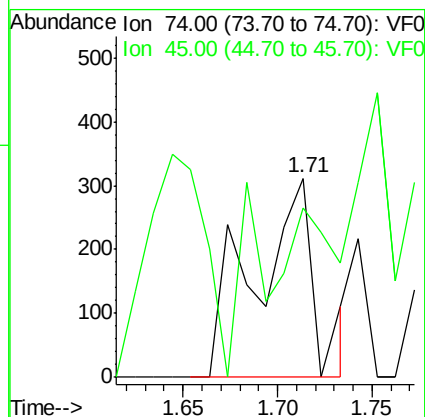
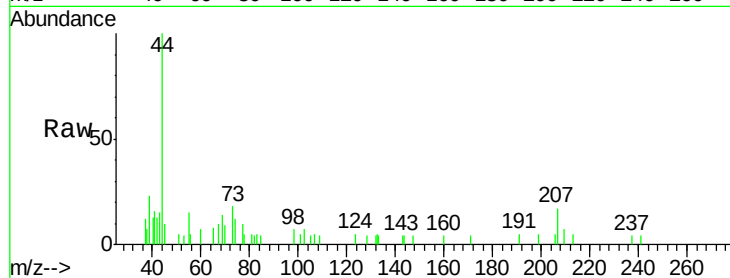
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 680

Ion Ratio Lower Upper

74 100

45 85.3 71.1 213.3



#11

Tert butyl alcohol

Concen: 3.136 ug/l

RT: 2.65 min Scan# 215

Delta R.T. -0.02 min

Lab File: VF059492.D

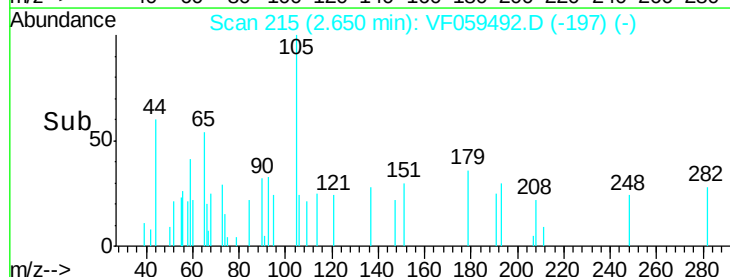
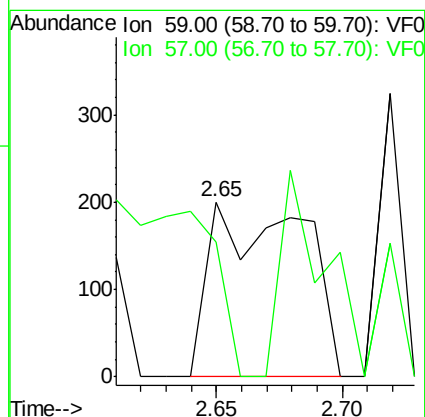
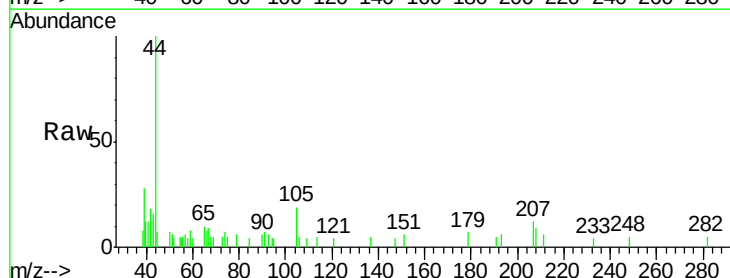
Acq: 10 Jul 2018 18:52

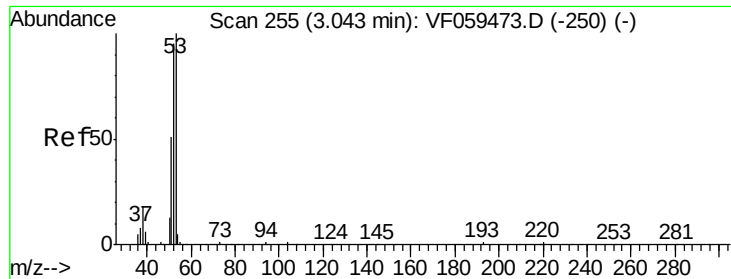
Tgt Ion: 59 Resp: 512

Ion Ratio Lower Upper

59 100

57 77.0 7.8 11.8#





#15

Acrylonitrile

Concen: 3.294 ug/l

RT: 3.07 min Scan# 258

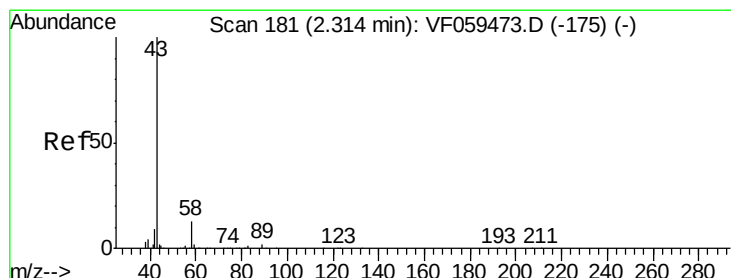
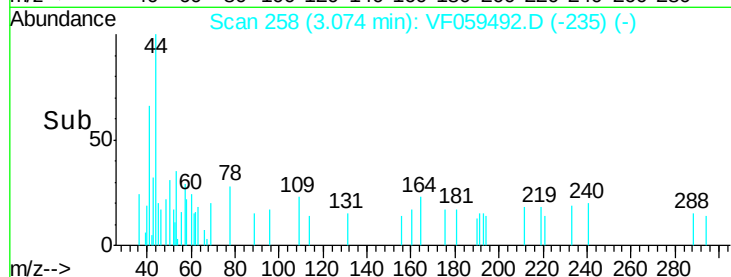
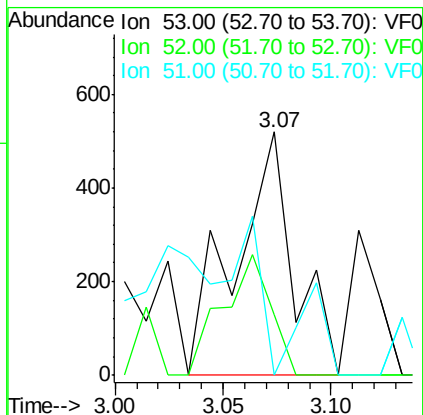
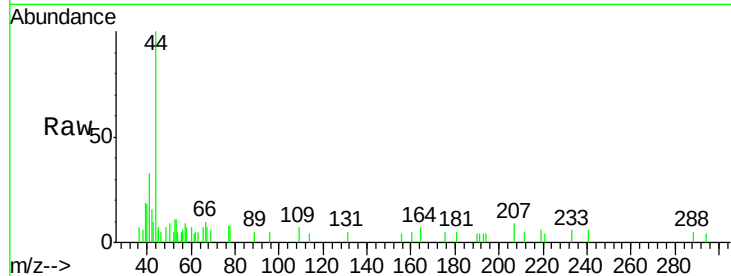
Delta R.T. 0.03 min

Lab File: VF059492.D

Acq: 10 Jul 2018 18:52

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	53	Resp:	982
Ion	Ratio	Lower	Upper
53	100		
52	75.0	76.8	115.2#
51	0.0	41.8	62.8#



#16

Acetone

Concen: 3.336 ug/l

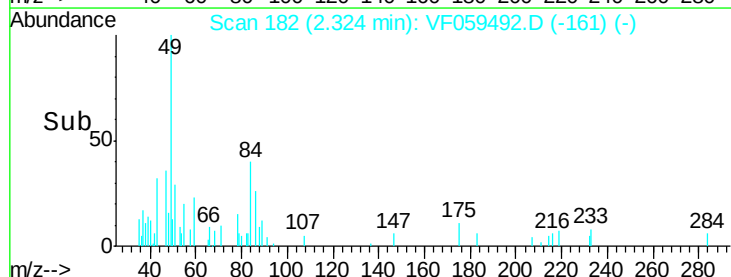
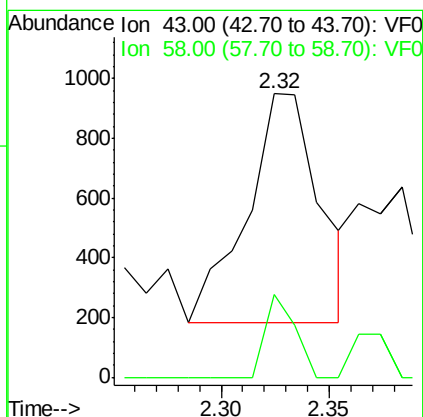
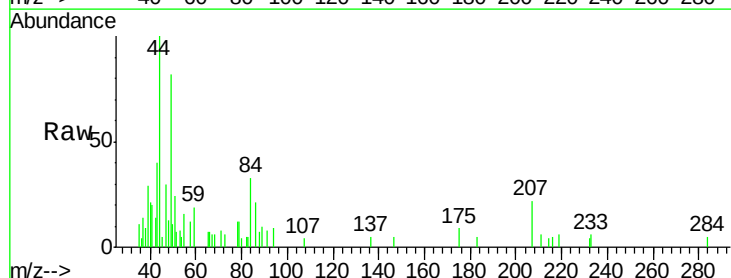
RT: 2.32 min Scan# 182

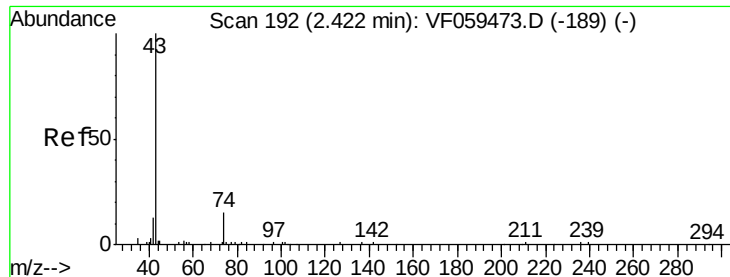
Delta R.T. 0.01 min

Lab File: VF059492.D

Acq: 10 Jul 2018 18:52

Tgt Ion:	43	Resp:	1788
Ion	Ratio	Lower	Upper
43	100		
58	29.1	10.5	15.7#





#18

Methyl Acetate

Concen: 1.891 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.04 min

Lab File: VF059492.D

Acq: 10 Jul 2018 18:52

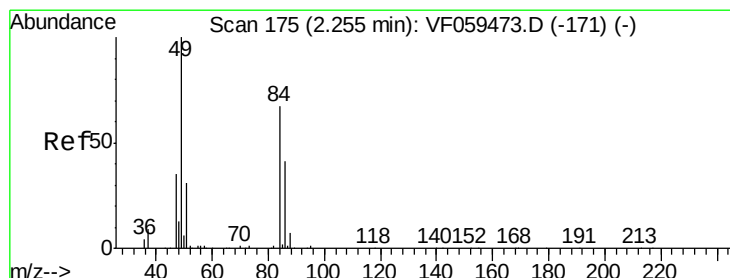
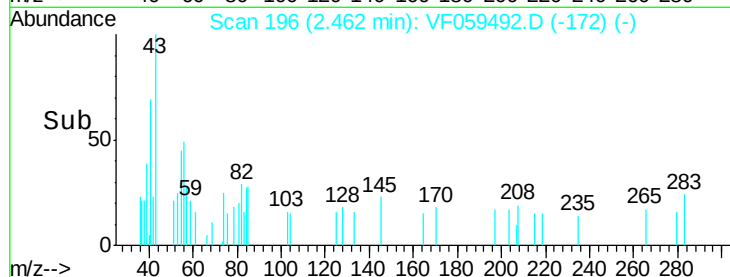
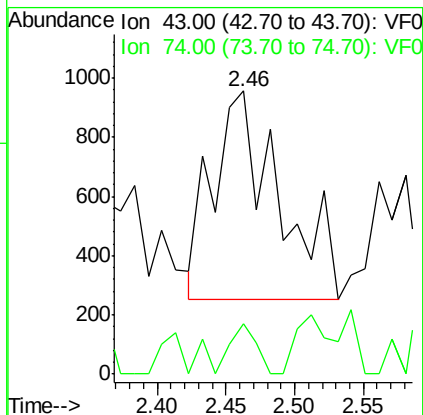
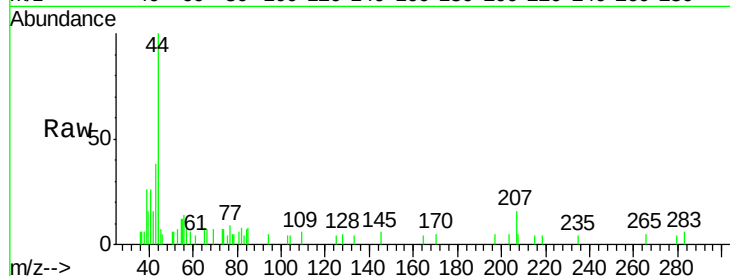
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 2353

Ion Ratio Lower Upper

43 100

74 17.8 10.8 16.2#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF059492.D

Acq: 10 Jul 2018 18:52

Tgt Ion: 84 Resp: 3134

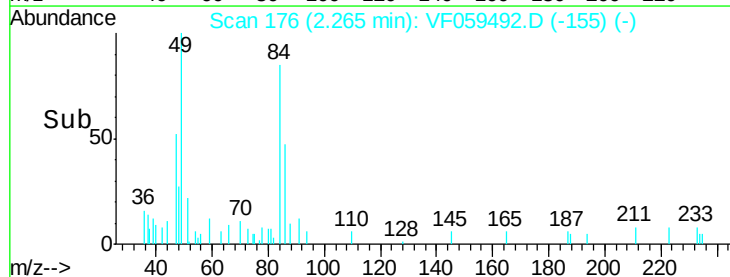
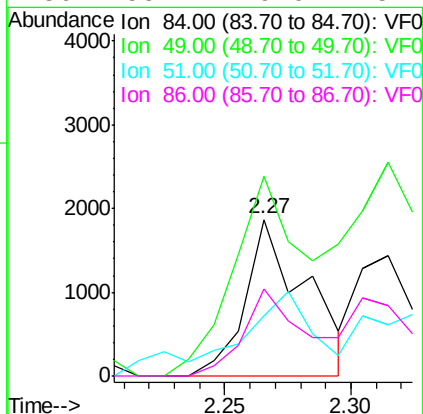
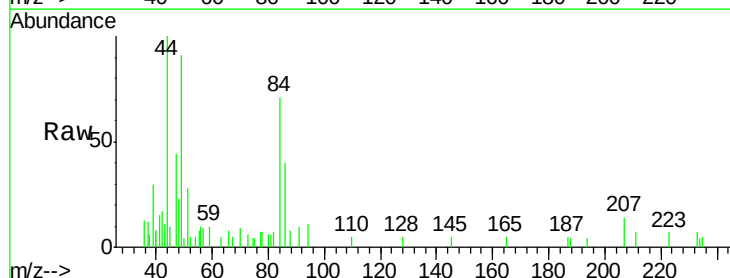
Ion Ratio Lower Upper

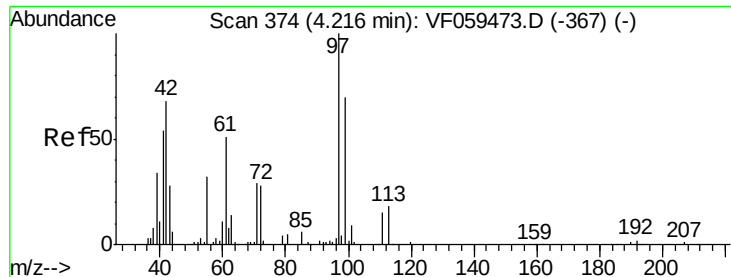
84 100

49 127.7 120.4 180.6

51 38.8 38.1 57.1

86 55.4 49.0 73.4





#29

Tetrahydrofuran

Concen: 3.076 ug/l

RT: 4.24 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF059492.D

Acq: 10 Jul 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

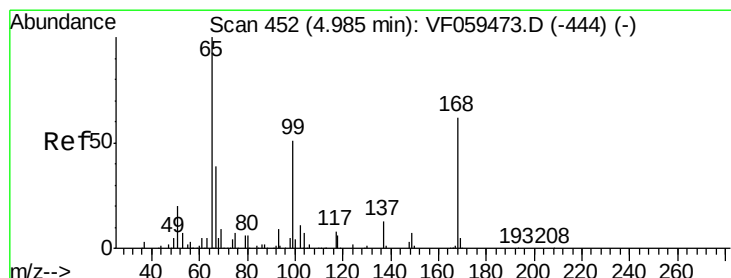
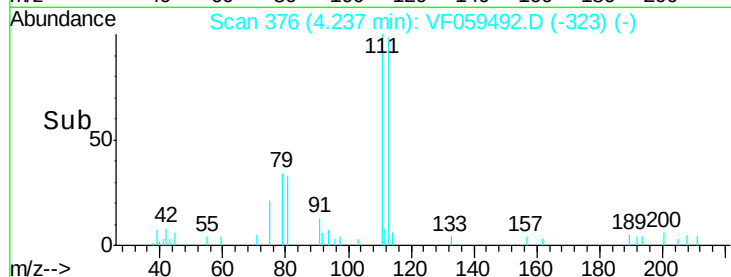
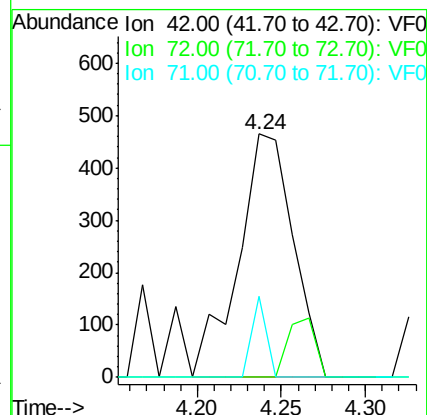
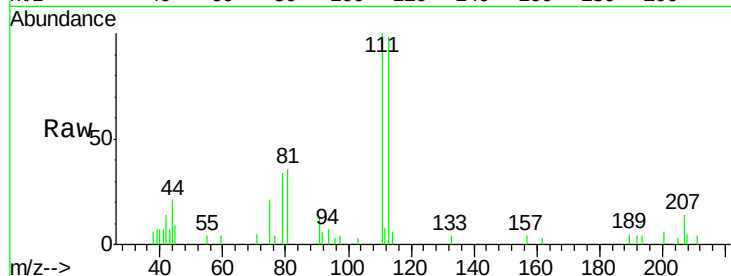
Tot Ion: 42 Resp: 1053

Ion Ratio Lower Upper

42 100

72 0.0 29.2 43.8#

71 8.6 30.1 45.1#



#33

1,2-Dichloroethane-d4

Concen: 35.029 ug/l

RT: 5.01 min Scan# 454

Delta R.T. 0.02 min

Lab File: VF059492.D

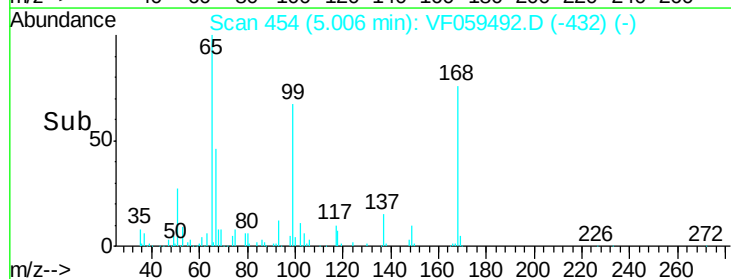
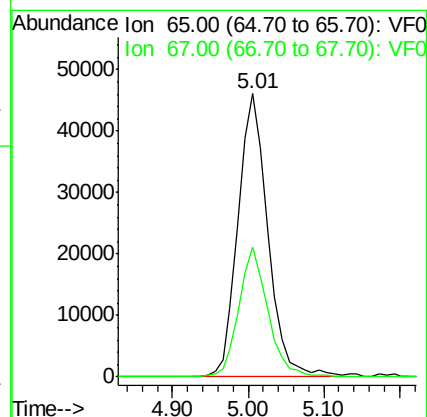
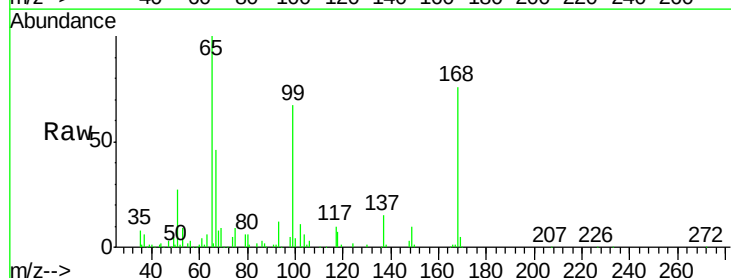
Acq: 10 Jul 2018 18:52

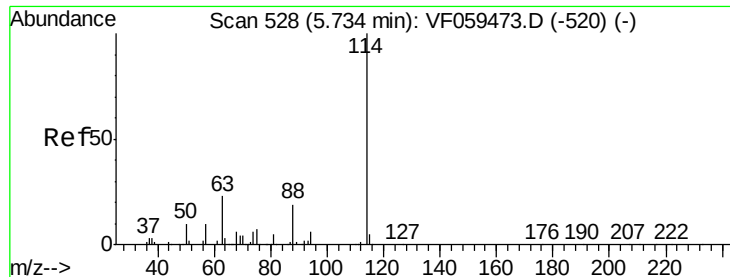
Tgt Ion: 65 Resp: 125535

Ion Ratio Lower Upper

65 100

67 46.0 0.0 88.6

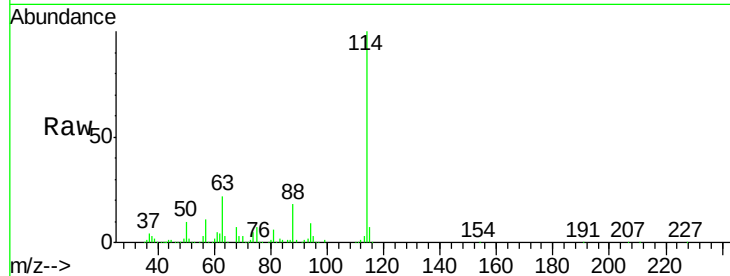




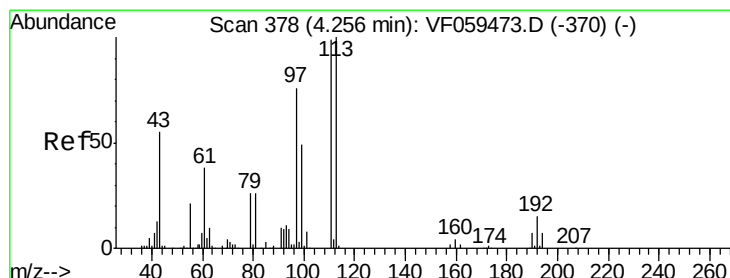
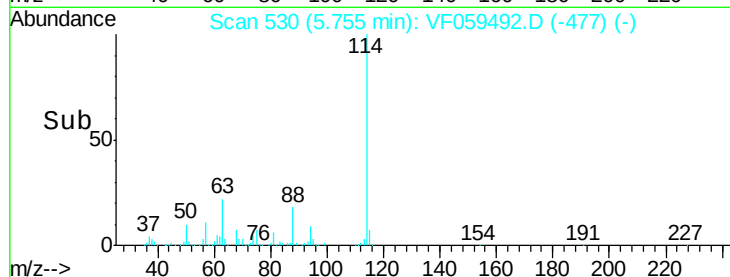
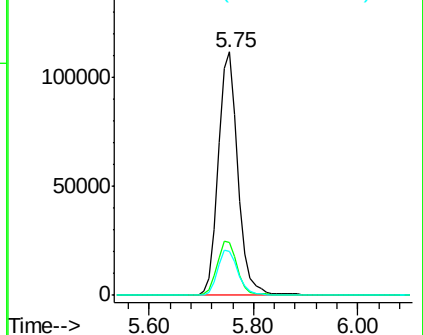
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. 0.02 min
 Lab File: VF059492.D
 Acq: 10 Jul 2018 18:52

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	47.2
88	18.3	0.0	38.0

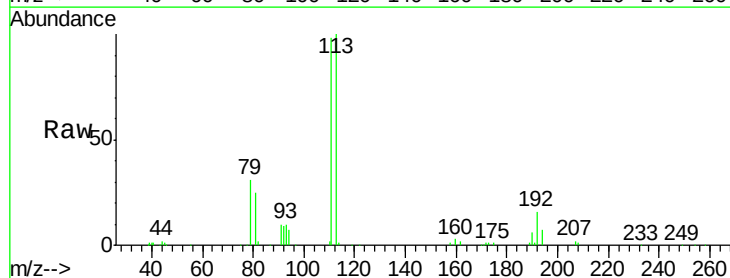


Abundance Ion 114.00 (113.70 to 114.70): V

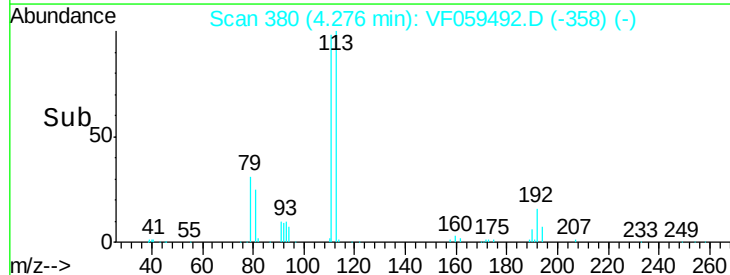
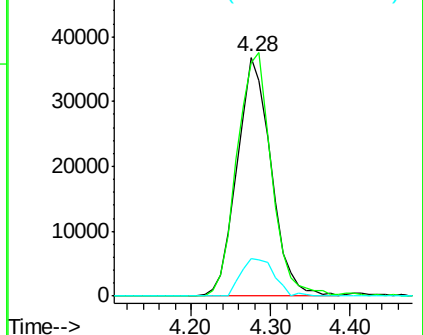


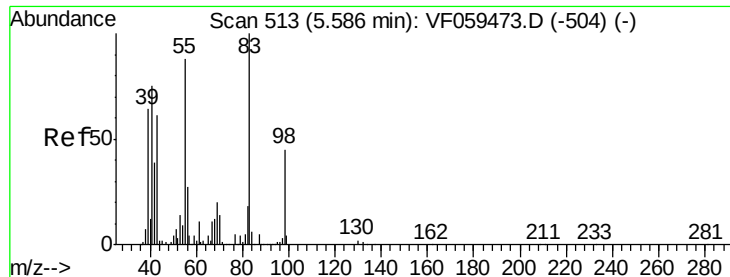
#35
 Dibromofluoromethane
 Concen: 38.823 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. 0.02 min
 Lab File: VF059492.D
 Acq: 10 Jul 2018 18:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	97.5	79.3	118.9
192	15.9	12.0	18.0



Abundance Ion 113.00 (112.70 to 113.70): V

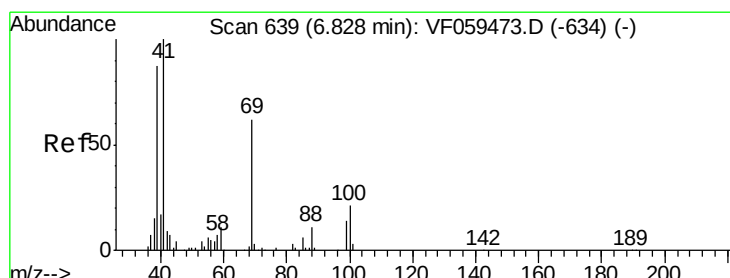
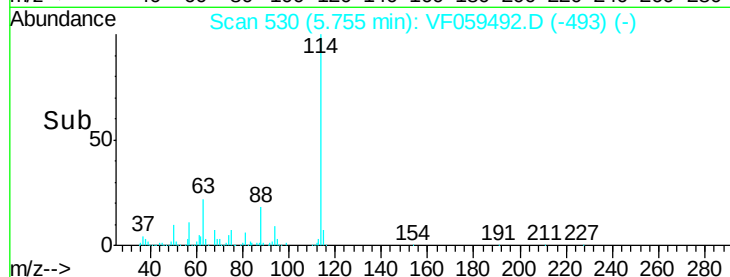
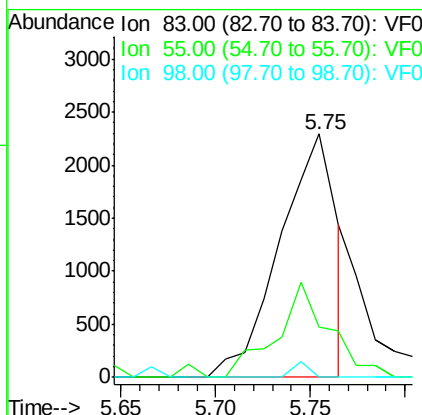
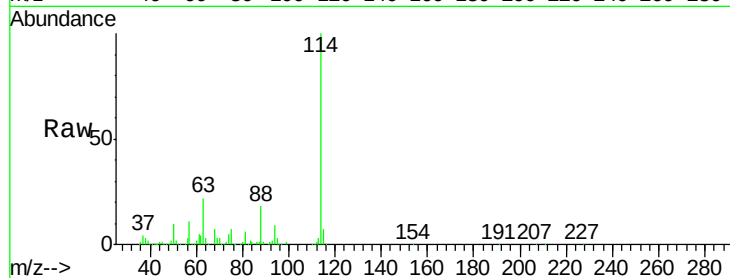




#39
Methylvlcyclohexane
Concen: 1.848 ug/l
RT: 5.75 min Scan# 530
Delta R.T. 0.17 min
Lab File: VF059492.D
Acq: 10 Jul 2018 18:52

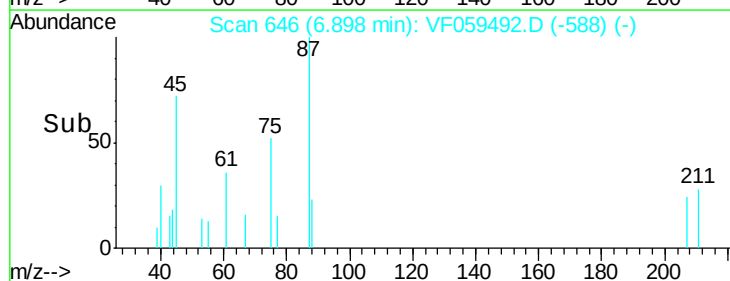
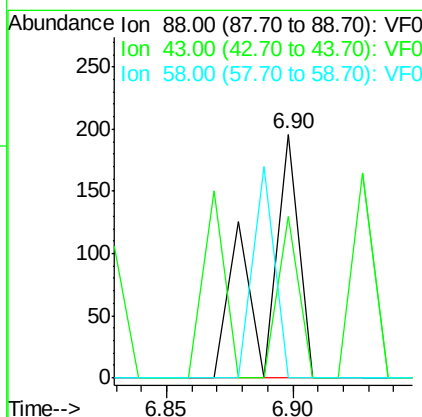
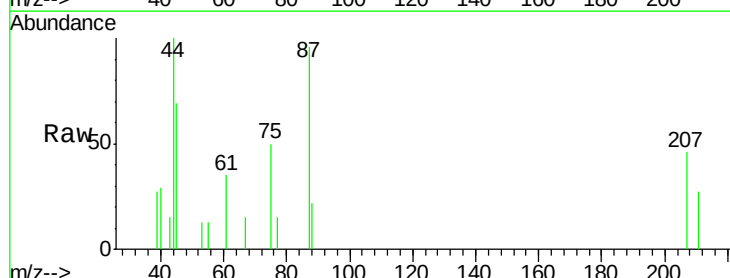
Instrument :
MSVOA_F
ClientSampleId :

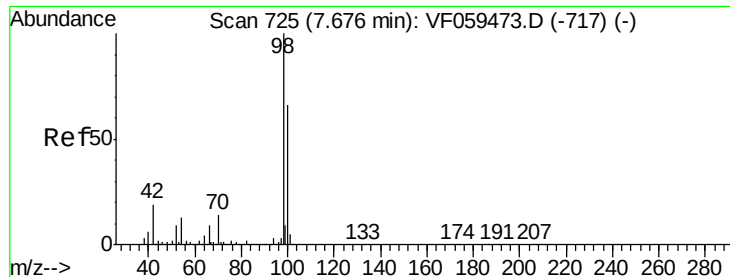
Tot Ion: 83 Resp: 4803
Ion Ratio Lower Upper
83 100
55 20.8 70.6 105.8#
98 0.0 36.3 54.5#



#49
1,4-Dioxane
Concen: 28.225 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.07 min
Lab File: VF059492.D
Acq: 10 Jul 2018 18:52

Tgt Ion: 88 Resp: 190
Ion Ratio Lower Upper
88 100
43 66.3 57.3 85.9
58 0.0 54.6 81.8#





#50

Toluene-d8

Concen: 32.029 ug/l

RT: 7.70 min Scan# 727

Delta R.T. 0.02 min

Lab File: VF059492.D

Acq: 10 Jul 2018 18:52

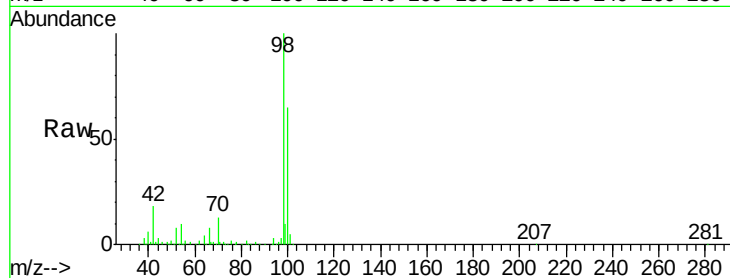
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 211783

Ion Ratio Lower Upper

98 100

100 65.5 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.70

100000

80000

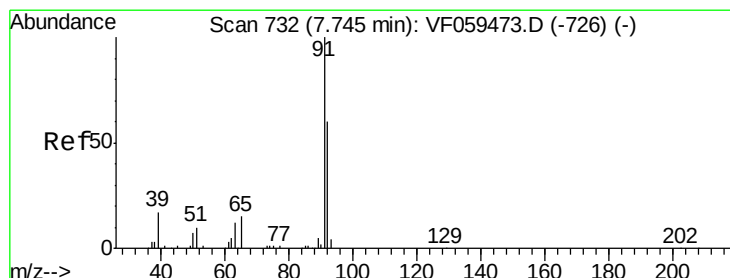
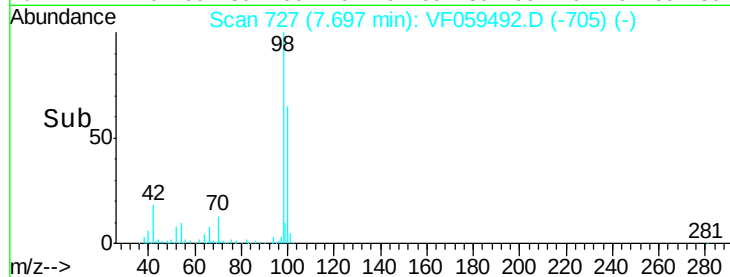
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 4.937 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.04 min

Lab File: VF059492.D

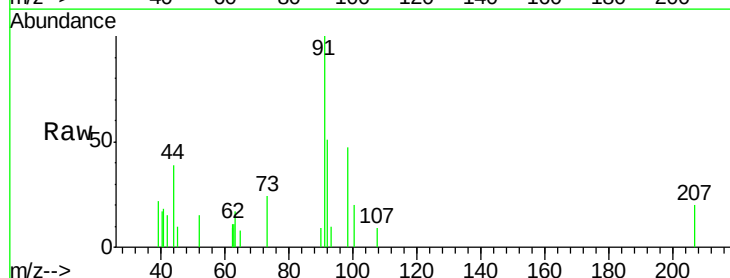
Acq: 10 Jul 2018 18:52

Tgt Ion: 63 Resp: 945

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

7.79

400

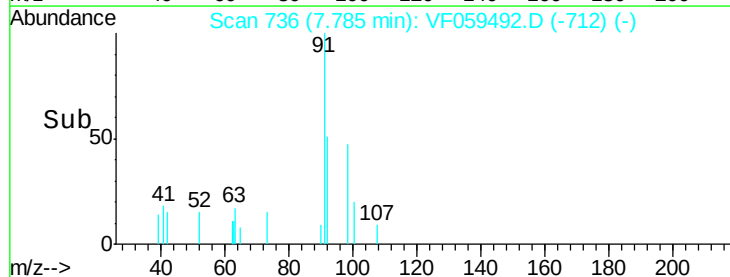
300

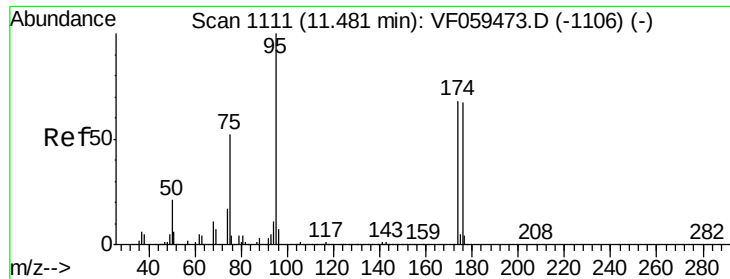
200

100

0

Time-->

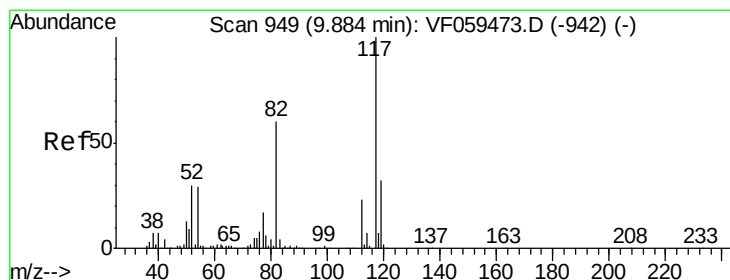
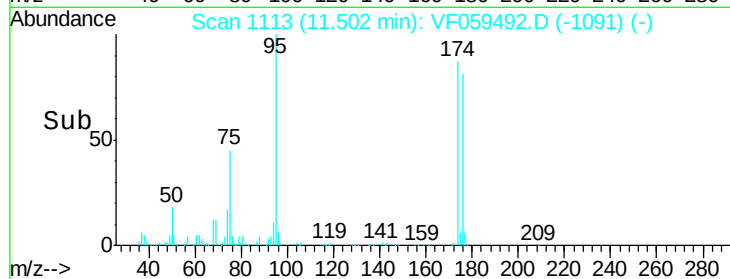
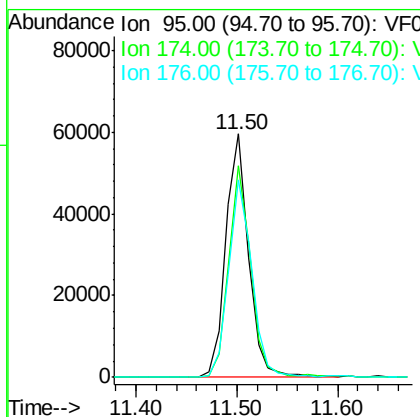
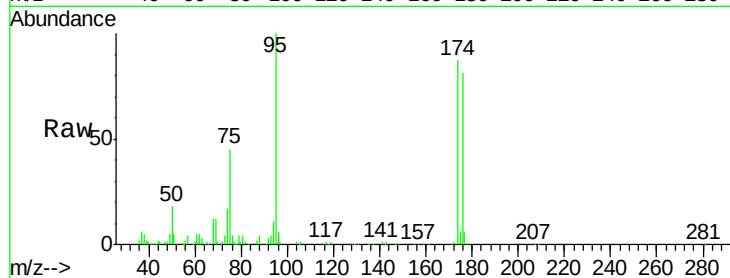




#62
4-Bromofluorobenzene
Concen: 25.331 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF059492.D
Acq: 10 Jul 2018 18:52

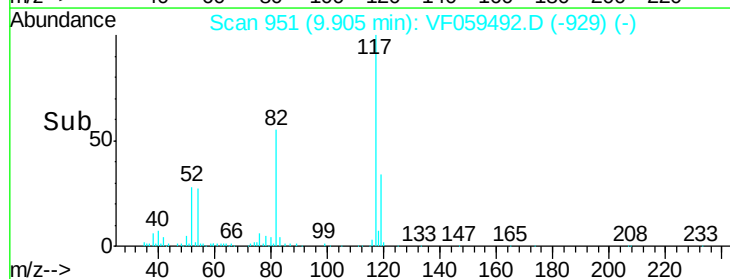
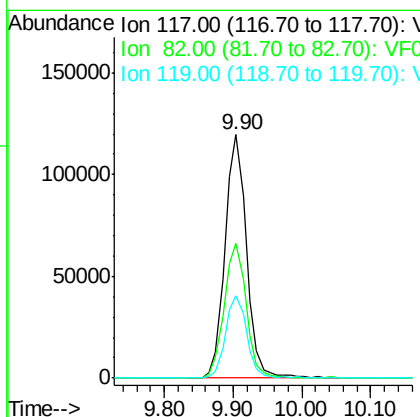
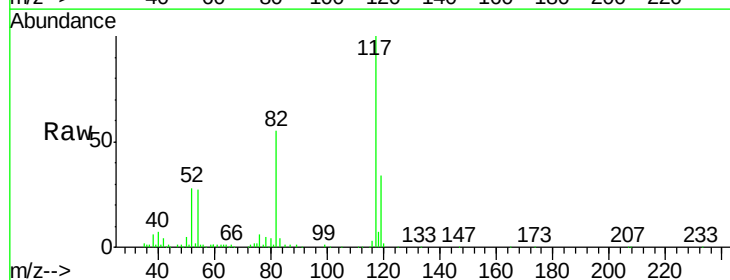
Instrument :
MSVOA_F
ClientSampleId :

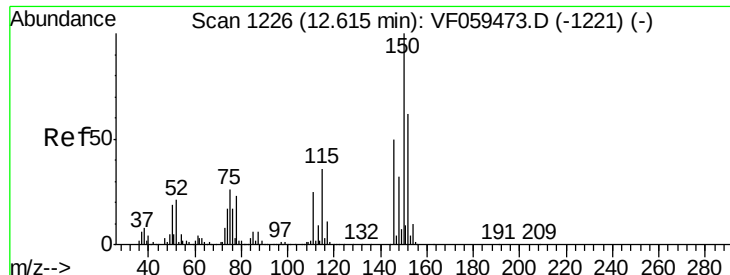
Tot Ion	95	Resp	93433
Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	137.0
176	81.3	0.0	133.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. 0.02 min
Lab File: VF059492.D
Acq: 10 Jul 2018 18:52

Tgt Ion	117	Resp	258841
Ion	Ratio	Lower	Upper
117	100		
82	55.3	48.2	72.4
119	33.8	25.7	38.5



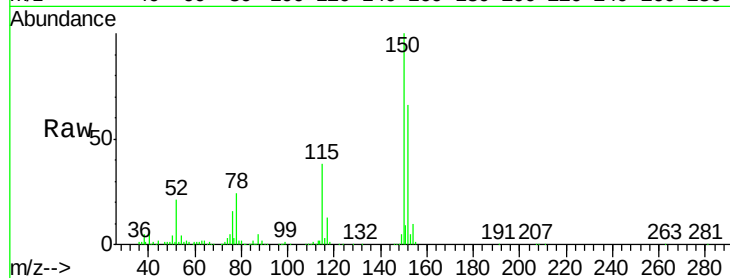


#72

1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF059492.D
 Acq: 10 Jul 2018 18:52

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.7	86.3
150	151.6	0.0	323.8



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

