

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059441.D
 Acq On : 5 Jul 2018 18:31
 Operator : VA/AP
 Sample : J3852-11
 Misc : 6.59g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:06:09 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	196706	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.74	114	298621	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.89	117	301350	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	189982	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	162740	64.04	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	128.08%	
35) Dibromofluoromethane	4.26	113	134730	61.75	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	123.50%	
50) Toluene-d8	7.68	98	280058	51.84	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	103.68%	
62) 4-Bromofluorobenzene	11.49	95	172037	56.45	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	112.90%	

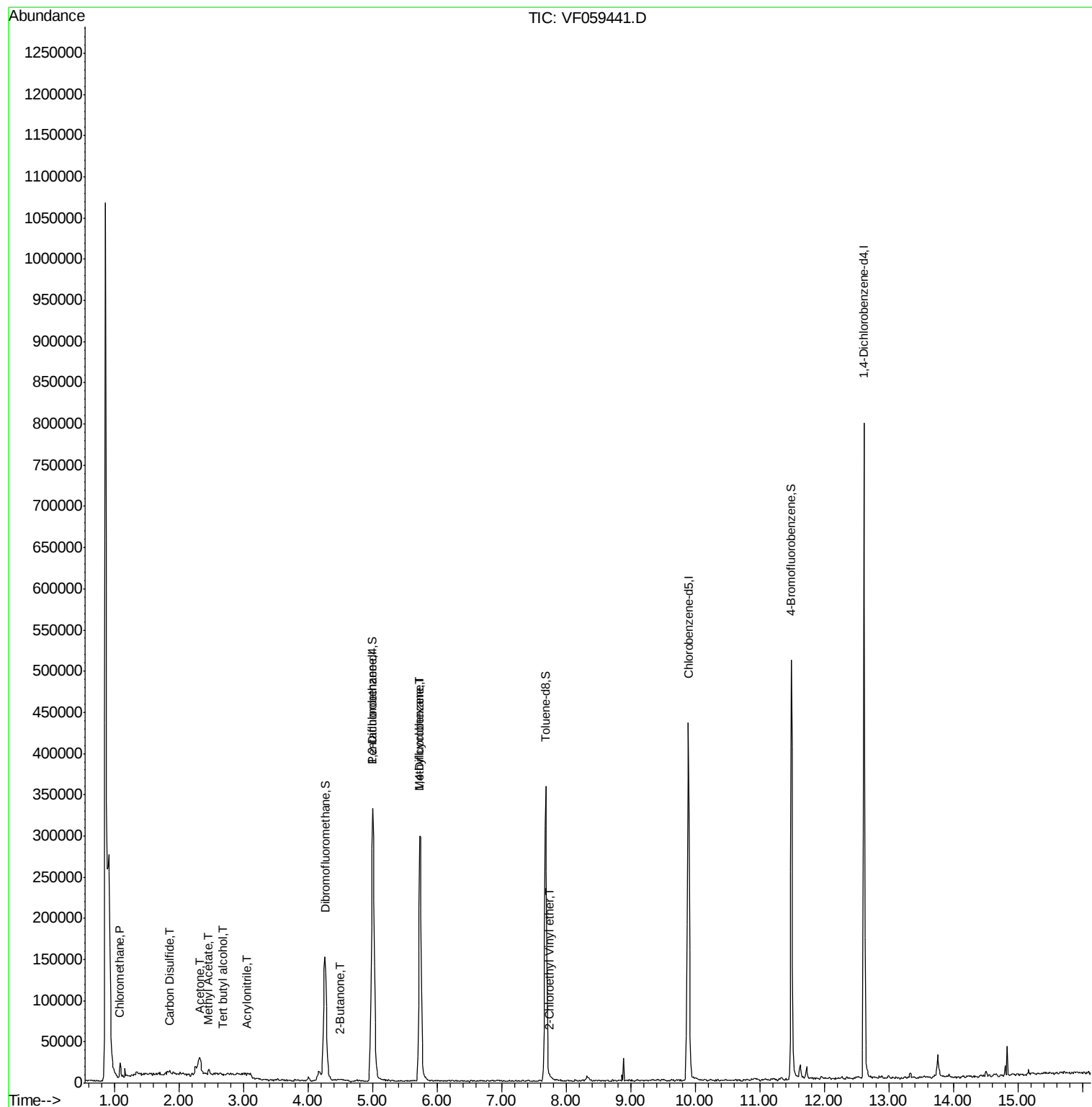
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	2036	1.686	ug/l #	41
5) Bromomethane	1.31	94	274	Below Cal	#	4
11) Tert butyl alcohol	2.67	59	416	2.459	ug/l #	75
13) Acrolein	2.05	56	343	Below Cal		94
15) Acrylonitrile	3.06	53	718	2.410	ug/l #	46
16) Acetone	2.32	43	31072	40.404	ug/l	97
17) Carbon Disulfide	1.86	76	13602	4.986	ug/l	95
18) Methyl Acetate	2.46	43	2540	1.076	ug/l #	61
20) Methylene Chloride	2.27	84	4523	Below Cal	#	48
25) 2-Butanone	4.49	43	3450	1.760	ug/l #	77
28) Bromochloromethane	3.87	49	80	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	380	Below Cal	#	61
37) Ethyl Acetate	4.24	43	342	Below Cal	#	50
39) Methylcyclohexane	5.73	83	4758	2.058	ug/l #	38
49) 1,4-Dioxane	6.95	88	70	Below Cal	#	10
58) 2-Chloroethyl Vinyl ether	7.75	63	342	2.191	ug/l	100
59) 2-Hexanone	9.62	43	806	Below Cal	#	30
87) 1,3-Dichlorobenzene	12.55	146	352	Below Cal	#	23

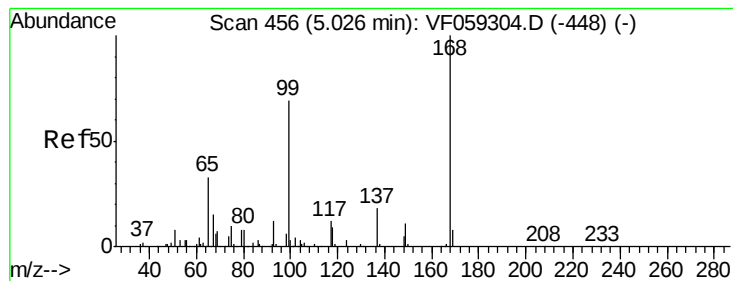
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

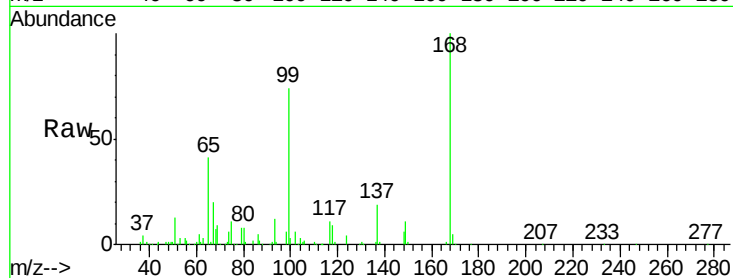
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 196706

Ion Ratio Lower Upper

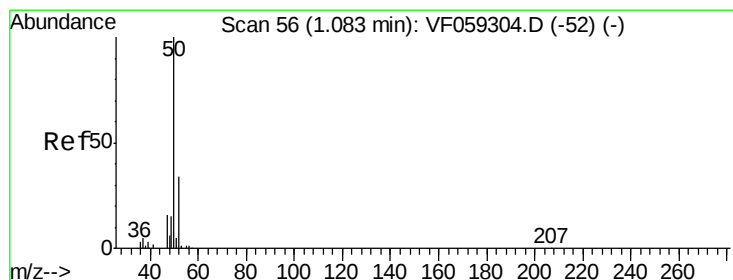
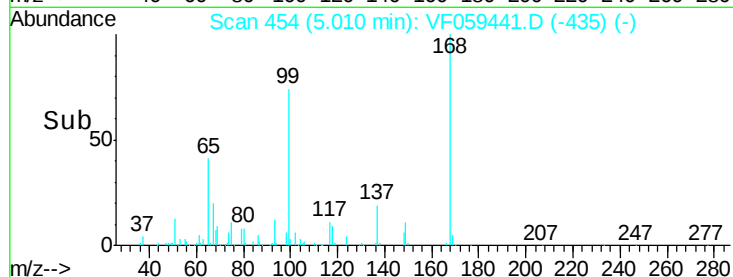
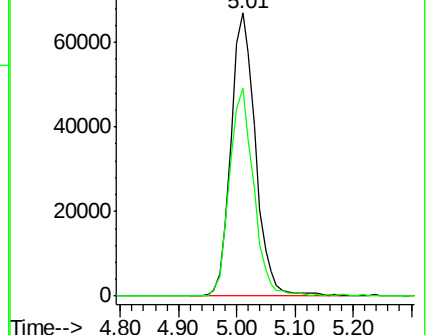
168 100

99 73.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.686 ug/l

RT: 1.08 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF059441.D

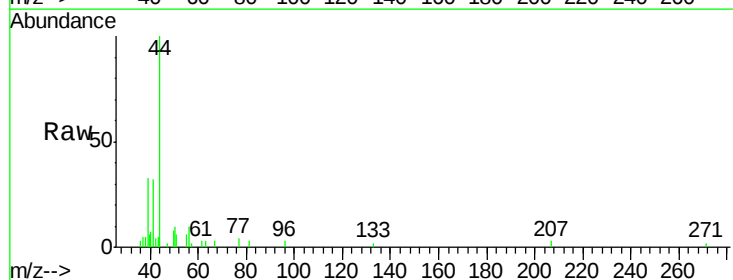
Acq: 5 Jul 2018 18:31

Tgt Ion: 50 Resp: 2036

Ion Ratio Lower Upper

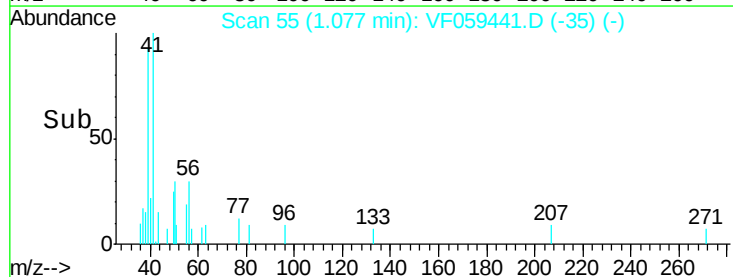
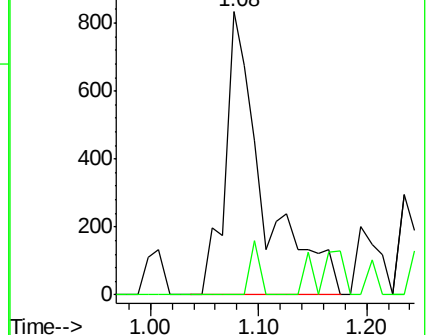
50 100

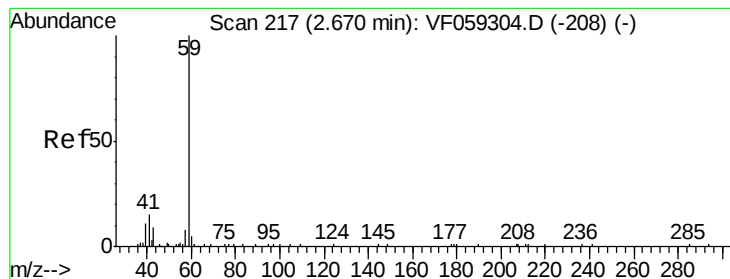
52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



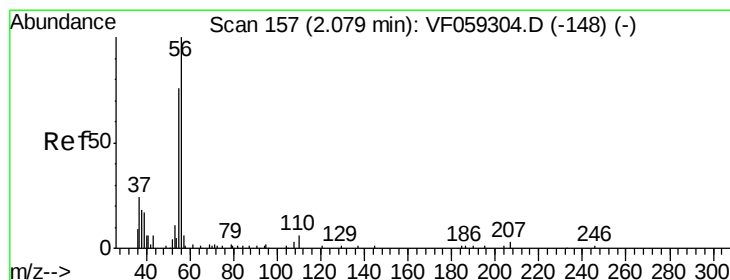
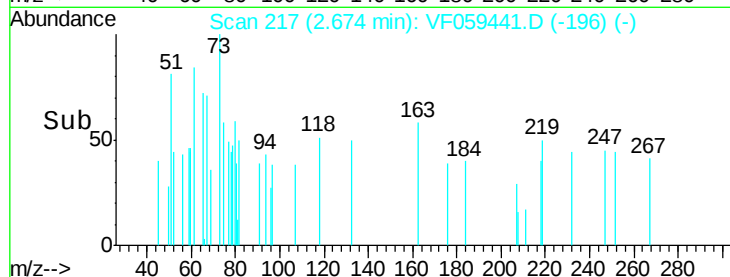
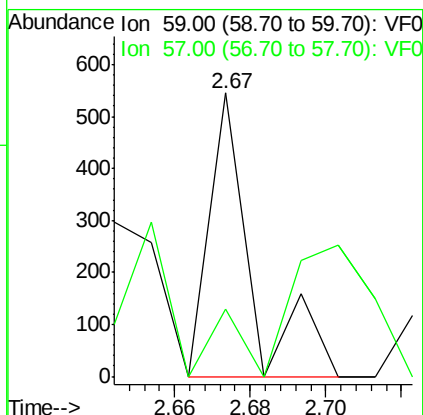
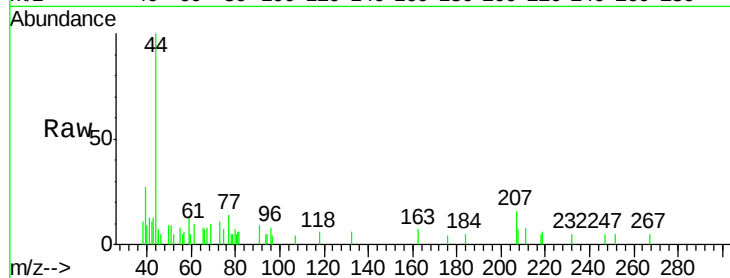


#11

Tert butyl alcohol
 Concen: 2.459 ug/l
 RT: 2.67 min Scan# 217
 Delta R.T. 0.00 min
 Lab File: VF059441.D
 Acq: 5 Jul 2018 18:31

Instrument :
 MSVOA_F
 ClientSampled :

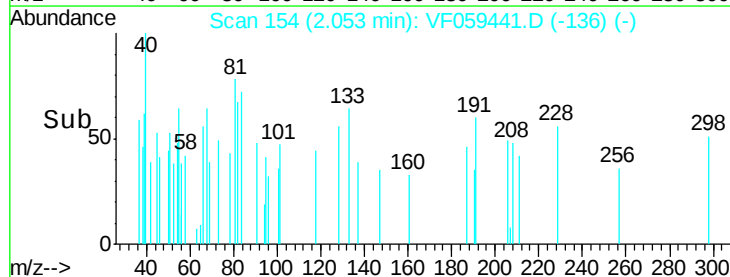
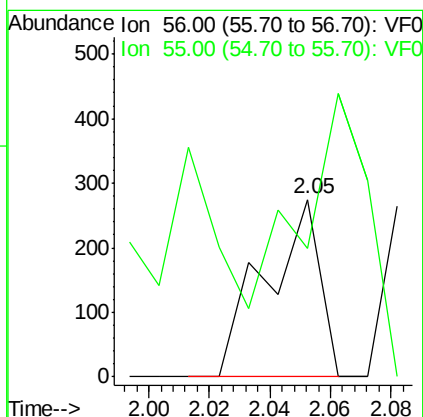
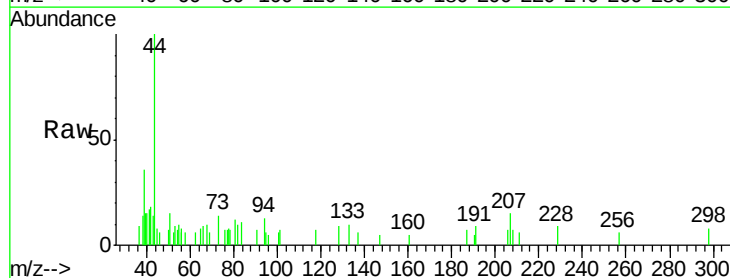
Tot Ion: 59 Resp: 416
 Ion Ratio Lower Upper
 59 100
 57 23.9 11.0 16.4#

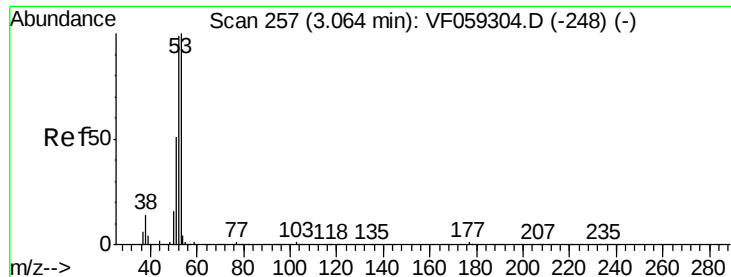


#13

Acrolein
 Concen: Below Cal
 RT: 2.05 min Scan# 154
 Delta R.T. -0.03 min
 Lab File: VF059441.D
 Acq: 5 Jul 2018 18:31

Tgt Ion: 56 Resp: 343
 Ion Ratio Lower Upper
 56 100
 55 72.4 62.4 93.6





#15

Acrylonitrile

Concen: 2.410 ug/l

RT: 3.06 min Scan# 256

Delta R.T. -0.01 min

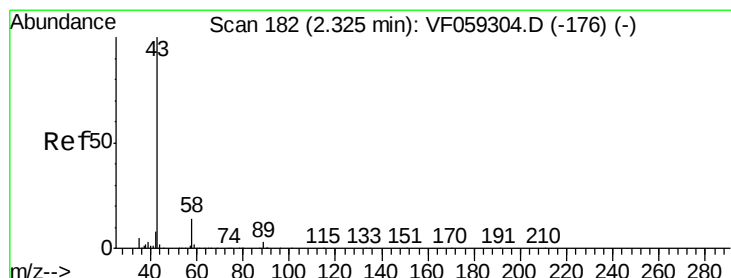
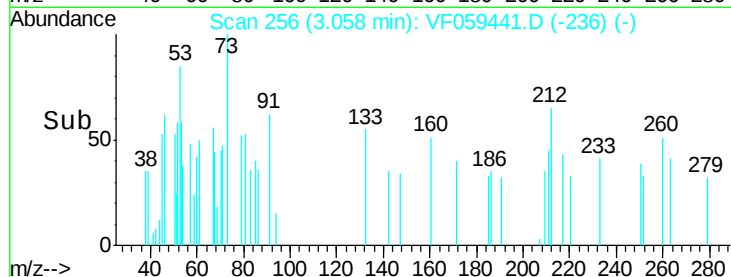
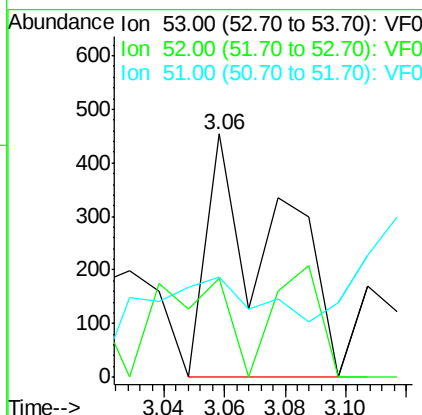
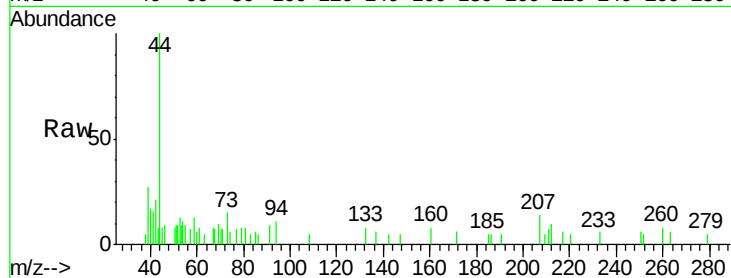
Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 53 Resp: 718

Ion	Ratio	Lower	Upper
53	100		
52	40.5	79.2	118.8#
51	81.7	40.9	61.3#



#16

Acetone

Concen: 40.404 ug/l

RT: 2.32 min Scan# 181

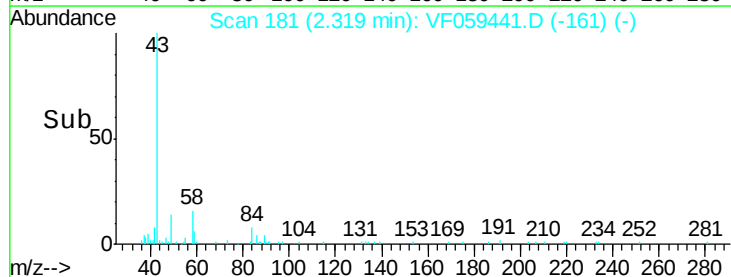
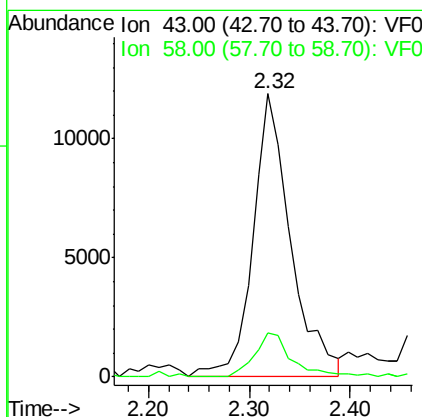
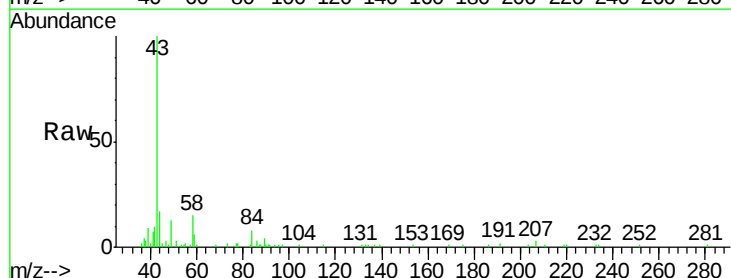
Delta R.T. -0.01 min

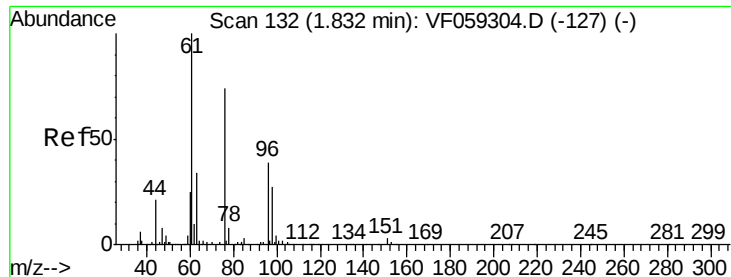
Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

Tgt Ion: 43 Resp: 31072

Ion	Ratio	Lower	Upper
43	100		
58	15.4	11.4	17.0

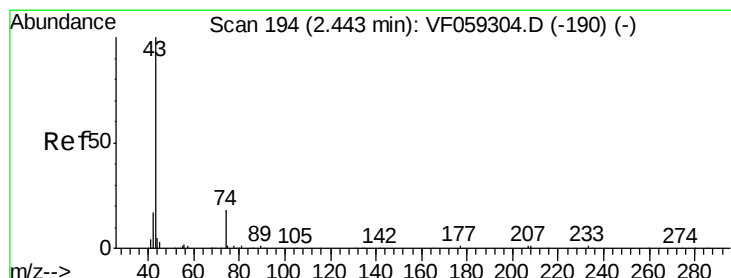
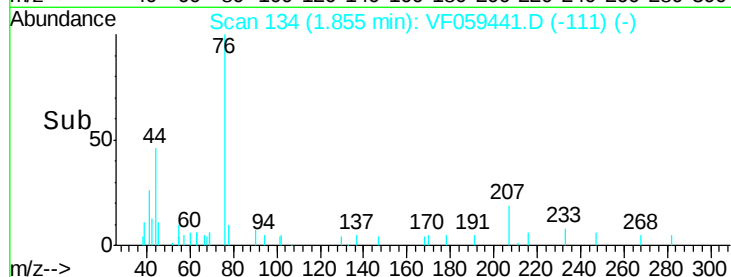
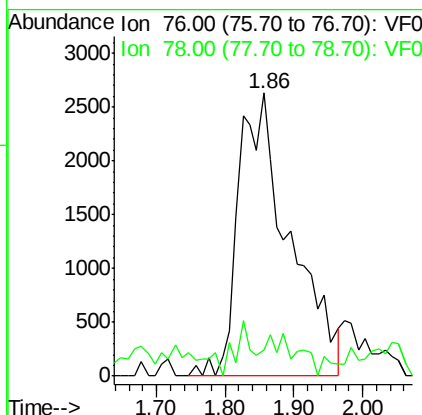
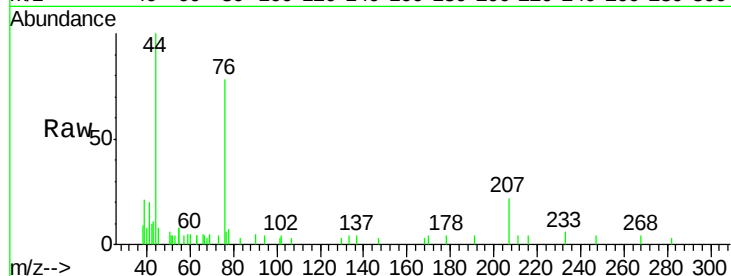




#17
Carbon Disulfide
Concen: 4.986 ug/l
RT: 1.86 min Scan# 134
Delta R.T. 0.02 min
Lab File: VF059441.D
Acq: 5 Jul 2018 18:31

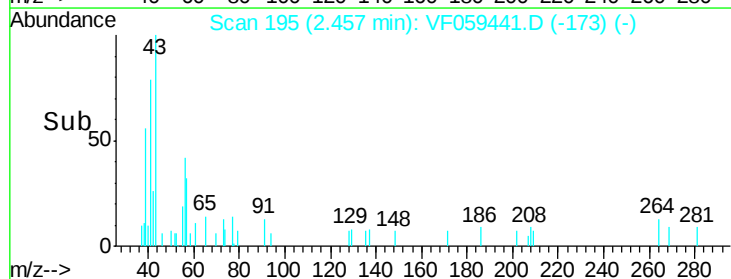
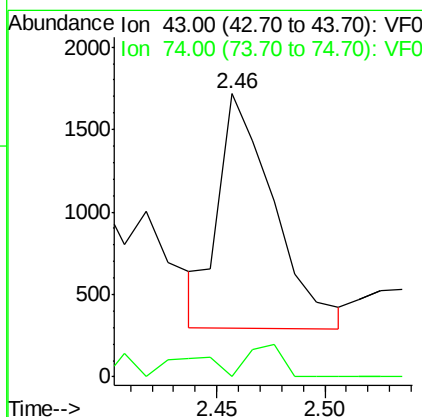
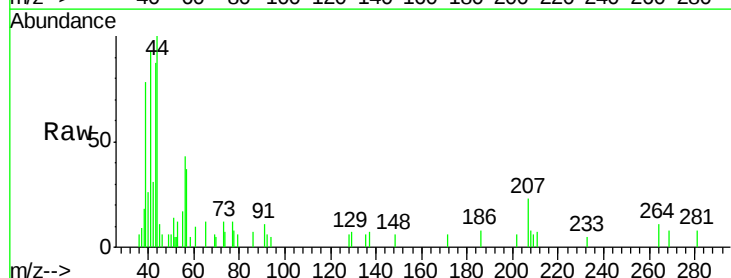
Instrument :
MSVOA_F
ClientSampled :

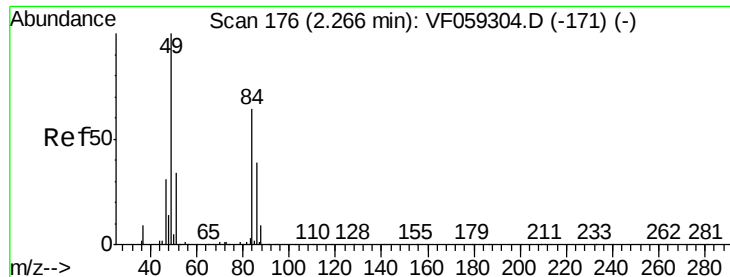
Tot Ion: 76 Resp: 13602
Ion Ratio Lower Upper
76 100
78 9.0 8.9 13.3



#18
Methyl Acetate
Concen: 1.076 ug/l
RT: 2.46 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059441.D
Acq: 5 Jul 2018 18:31

Tgt Ion: 43 Resp: 2540
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#

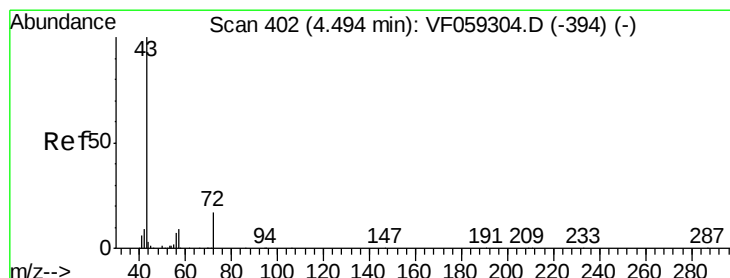
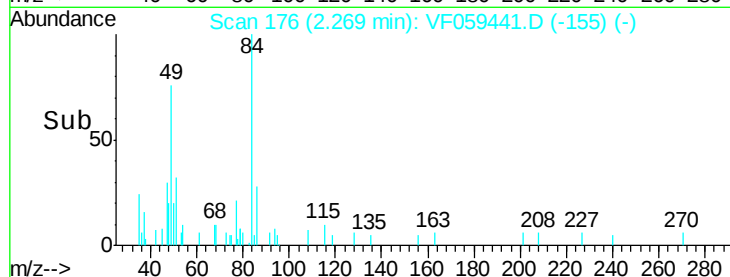
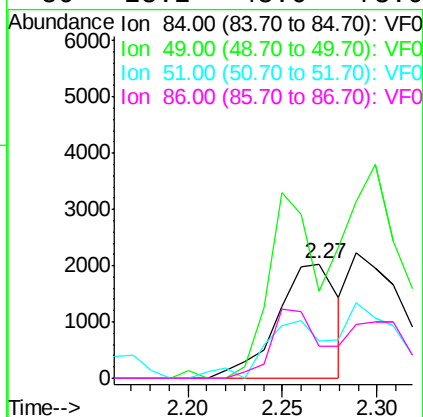
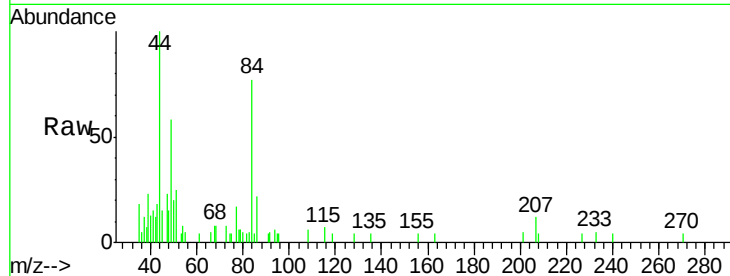




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059441.D
Acq: 5 Jul 2018 18:31

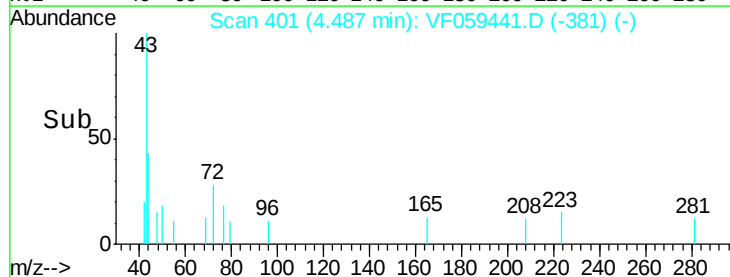
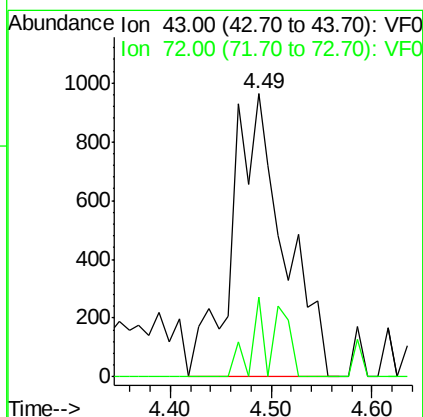
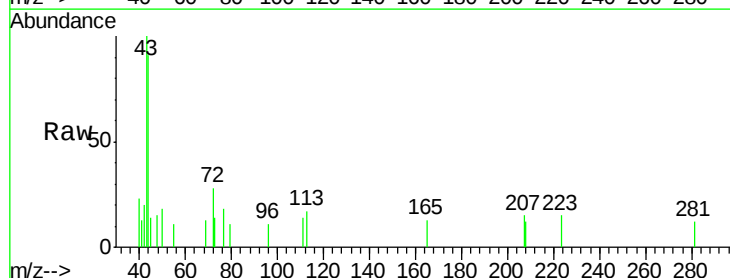
Instrument :
MSVOA_F
ClientSampleId :

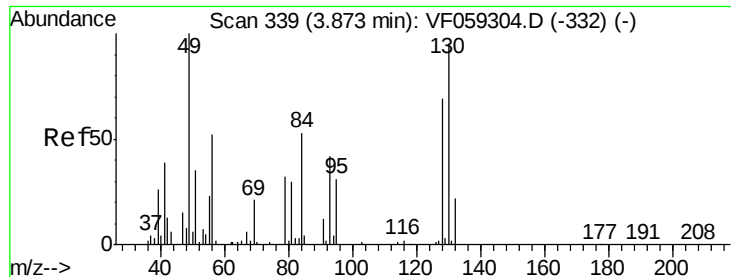
Tot Ion: 84 Resp: 4523
Ion Ratio Lower Upper
84 100
49 76.0 126.5 189.7#
51 31.9 42.9 64.3#
86 28.2 48.6 73.0#



#25
2-Butanone
Concen: 1.760 ug/l
RT: 4.49 min Scan# 401
Delta R.T. -0.01 min
Lab File: VF059441.D
Acq: 5 Jul 2018 18:31

Tgt Ion: 43 Resp: 3450
Ion Ratio Lower Upper
43 100
72 28.1 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.87 min Scan# 338

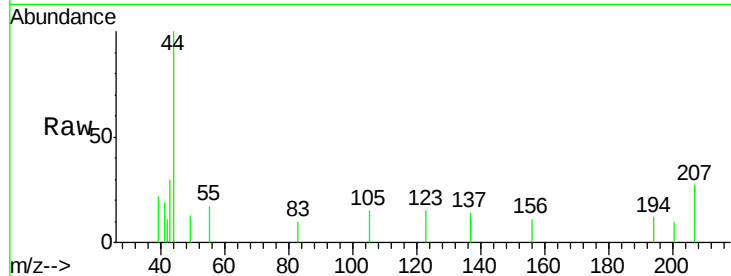
Delta R.T. -0.01 min

Lab File: VF059441.D

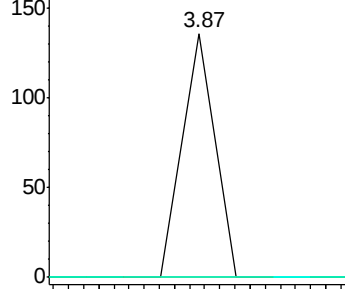
Acq: 5 Jul 2018 18:31

Instrument :
MSVOA_F
ClientSampleId :

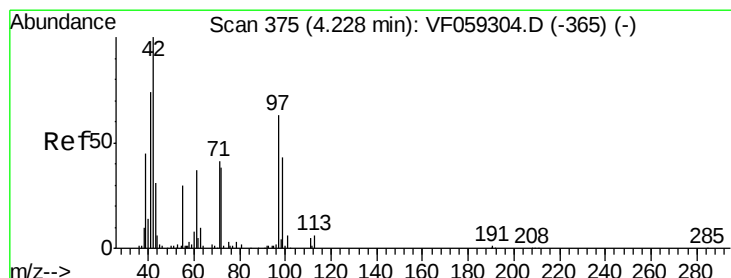
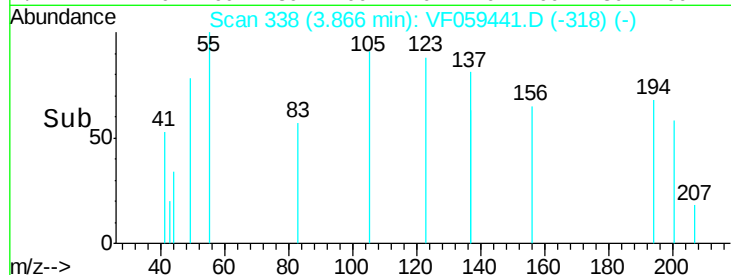
Tot Ion: 49 Resp: 80
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.4
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V



Time-->



#29

Tetrahydrofuran

Concen: Below Cal

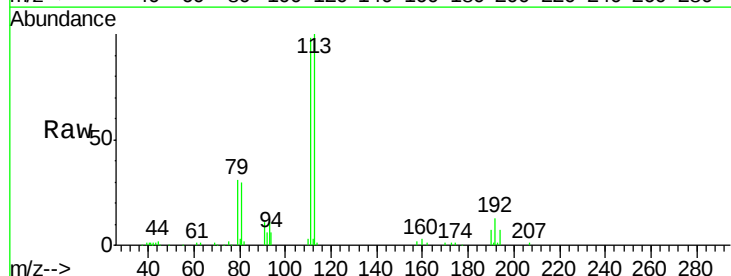
RT: 4.24 min Scan# 376

Delta R.T. 0.01 min

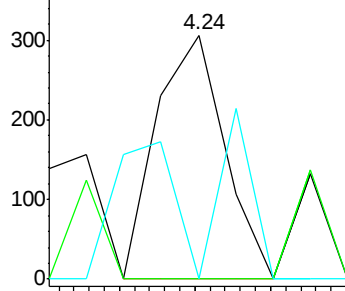
Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

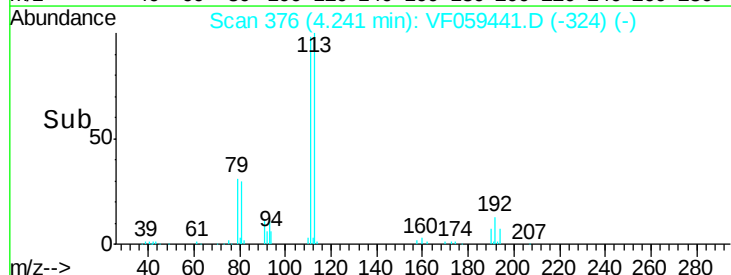
Tgt Ion: 42 Resp: 380
Ion Ratio Lower Upper
42 100
72 0.0 30.5 45.7#
71 51.1 32.5 48.7#

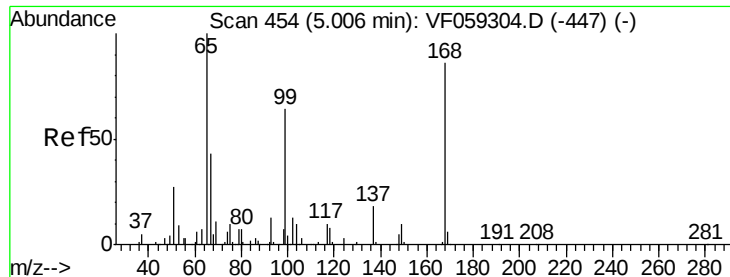


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 64.035 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

Instrument :

MSVOA_F

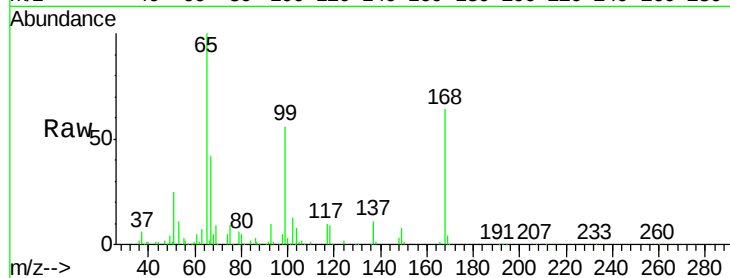
ClientSampleId :

Tot Ion: 65 Resp: 162740

Ion Ratio Lower Upper

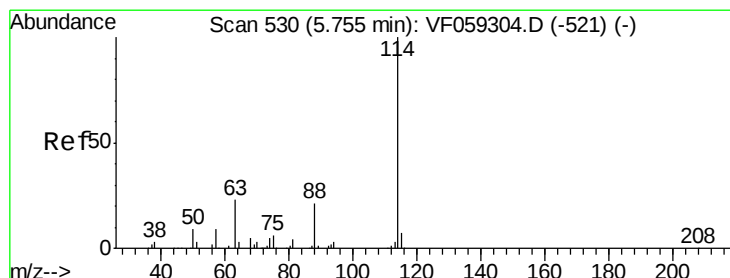
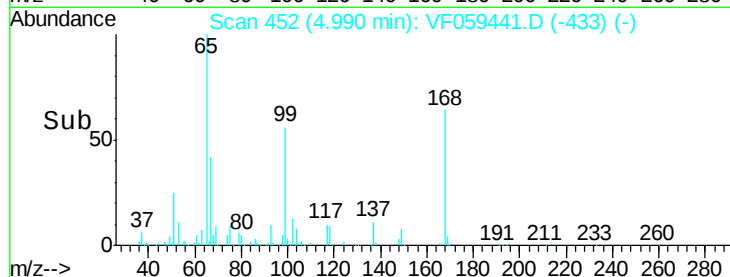
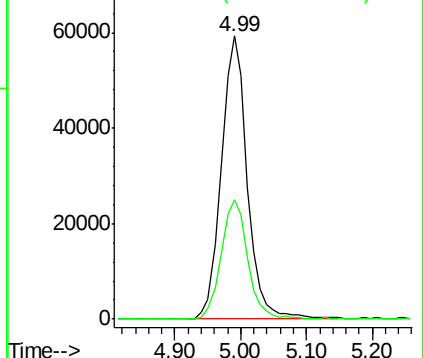
65 100

67 42.2 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: 50.000 ug/l

RT: 5.74 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

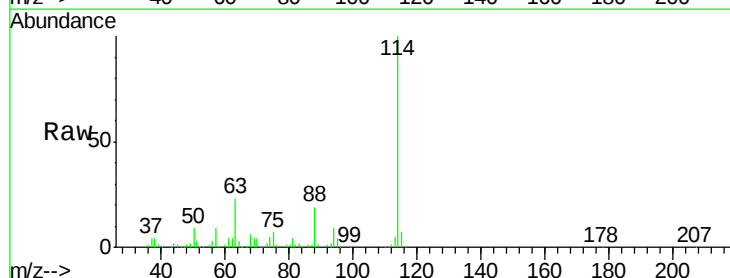
Tgt Ion: 114 Resp: 298621

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.8

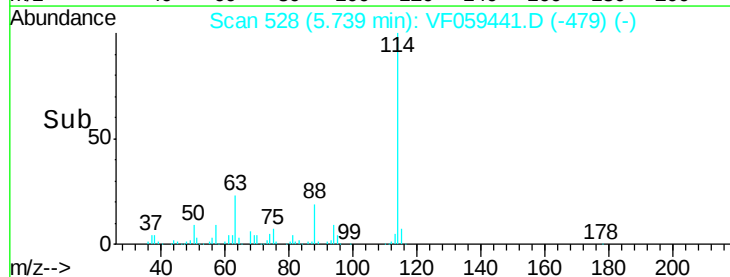
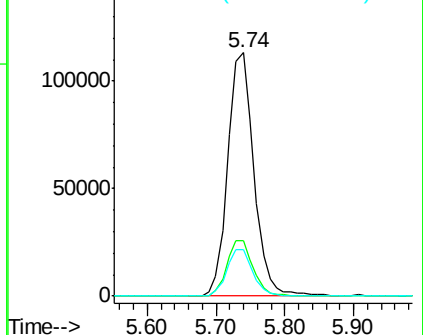
88 19.3 0.0 41.2

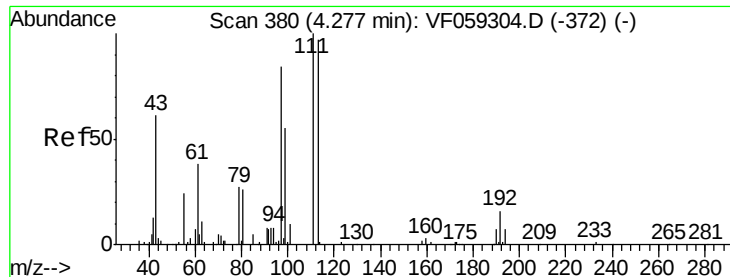


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

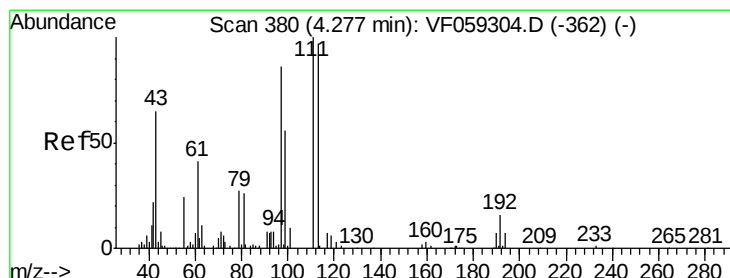
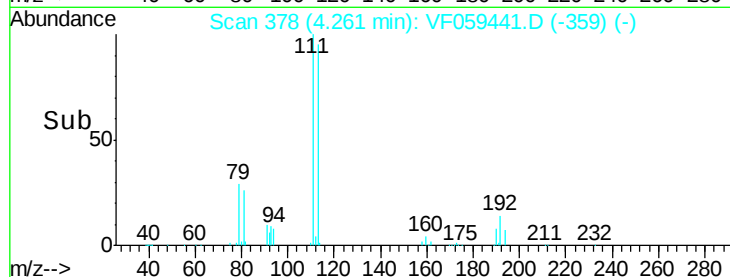
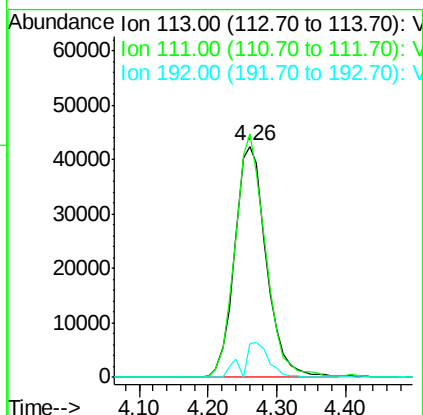
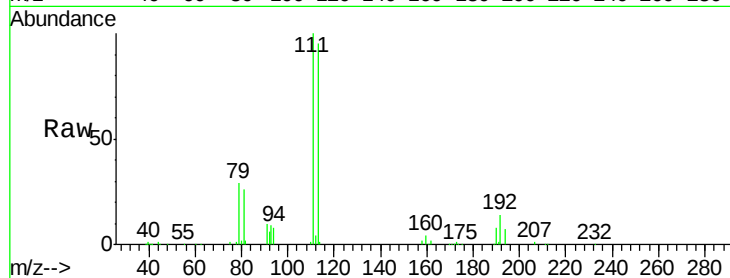




#35
 Dibromofluoromethane
 Concen: 61.748 ug/l
 RT: 4.26 min Scan# 378
 Delta R.T. -0.02 min
 Lab File: VF059441.D
 Acq: 5 Jul 2018 18:31

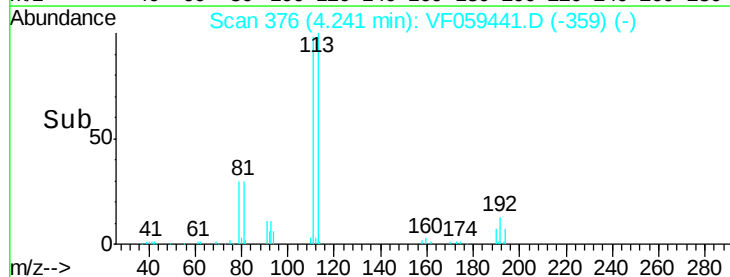
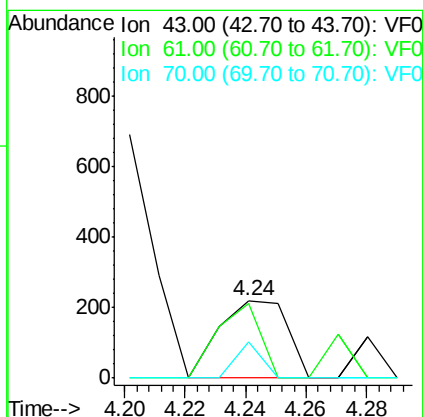
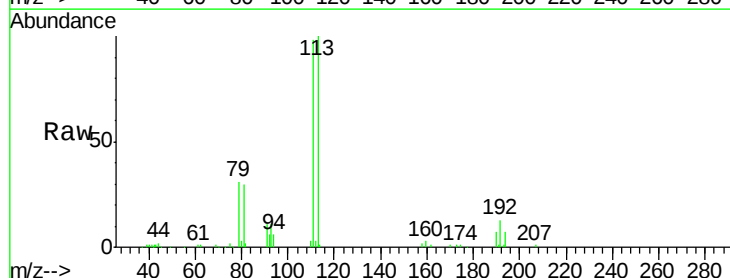
Instrument :
 MSVOA_F
 ClientSampleId :

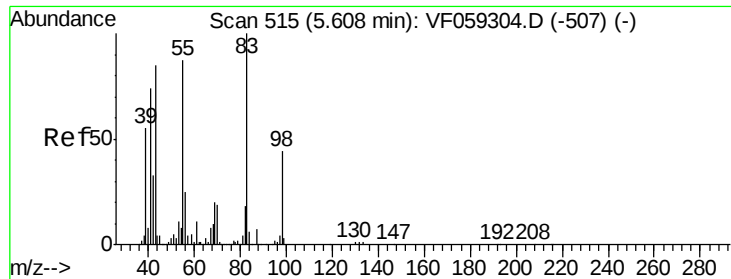
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.3	82.1	123.1
192	14.4	13.0	19.6



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.24 min Scan# 376
 Delta R.T. -0.04 min
 Lab File: VF059441.D
 Acq: 5 Jul 2018 18:31

Tgt Ion	Ratio	Lower	Upper
43	100		
61	95.5	50.1	75.1#
70	46.4	6.2	9.4#

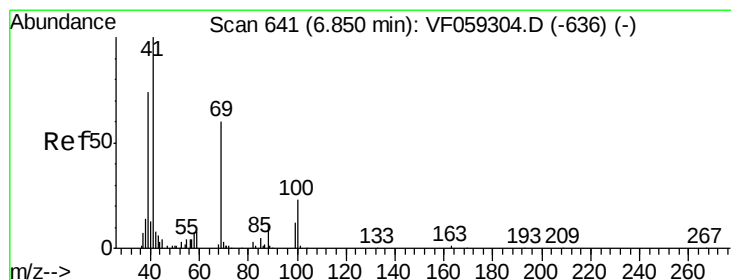
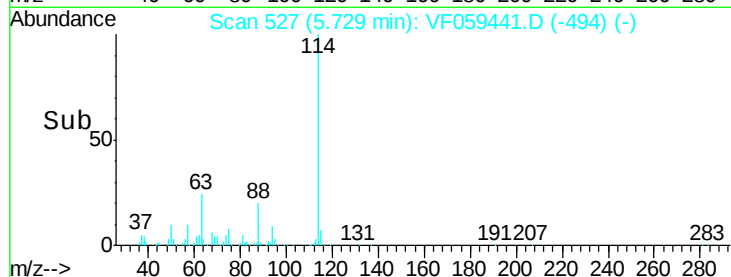
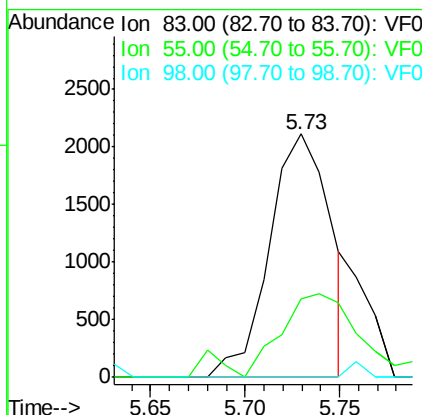
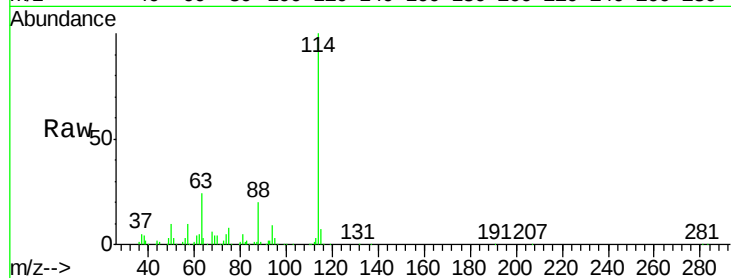




#39
Methylcyclohexane
Concen: 2.058 ug/l
RT: 5.73 min Scan# 527
Delta R.T. 0.12 min
Lab File: VF059441.D
Acq: 5 Jul 2018 18:31

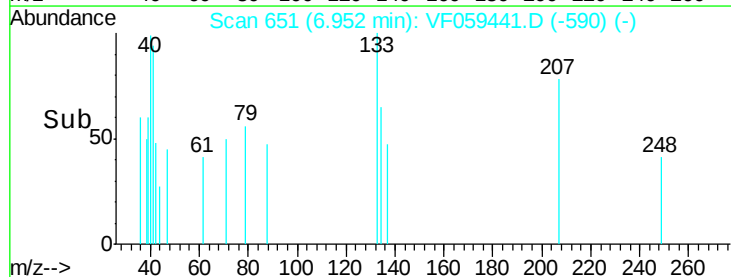
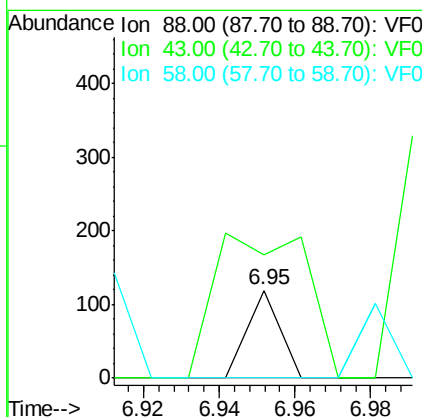
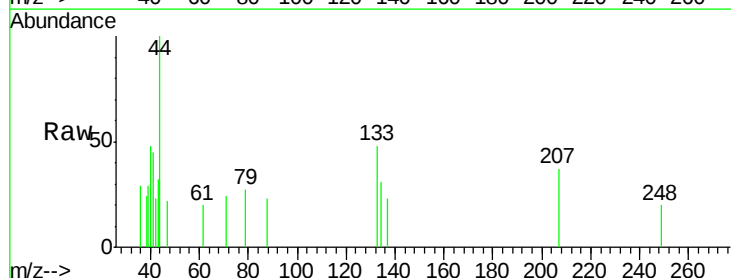
Instrument :
MSVOA_F
ClientSampleId :

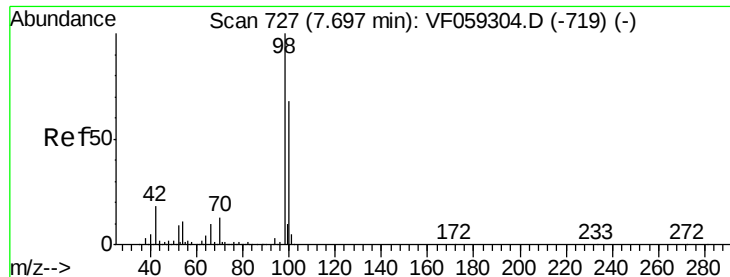
Tot Ion: 83 Resp: 4758
Ion Ratio Lower Upper
83 100
55 32.2 69.2 103.8#
98 0.0 35.0 52.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.95 min Scan# 651
Delta R.T. 0.10 min
Lab File: VF059441.D
Acq: 5 Jul 2018 18:31

Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 141.2 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 51.841 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

Instrument :

MSVOA_F

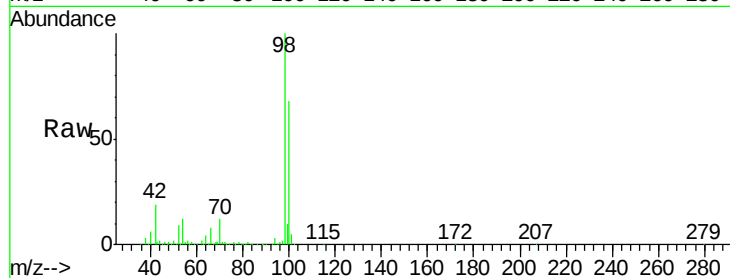
ClientSampleId :

Tot Ion: 98 Resp: 280058

Ion Ratio Lower Upper

98 100

100 67.9 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

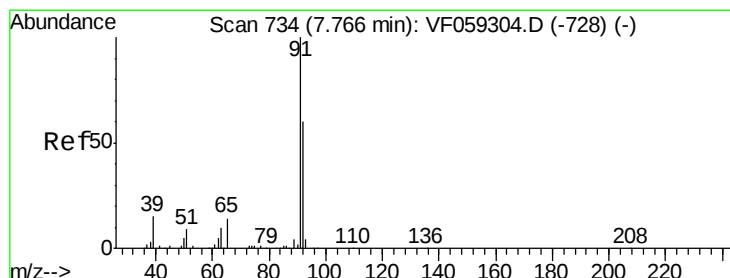
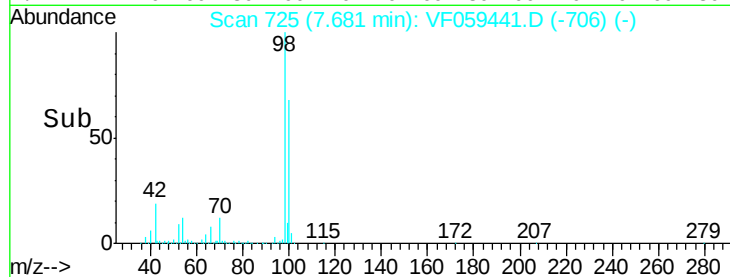
7.68

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 2.191 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059441.D

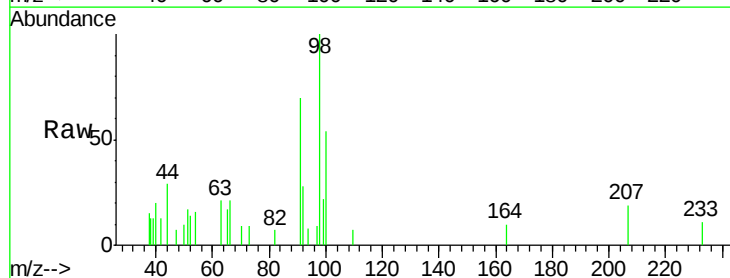
Acq: 5 Jul 2018 18:31

Tgt Ion: 63 Resp: 342

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

7.75

400

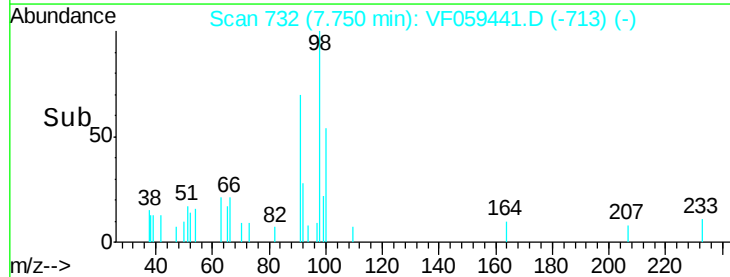
300

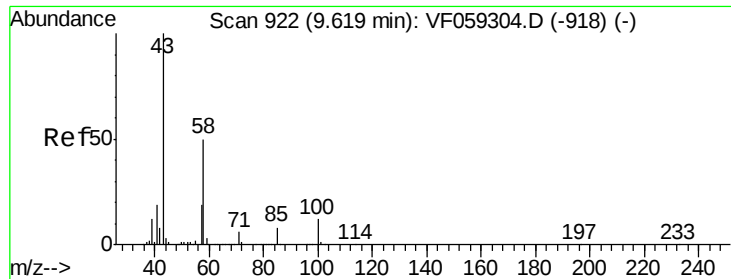
200

100

0

Time-->

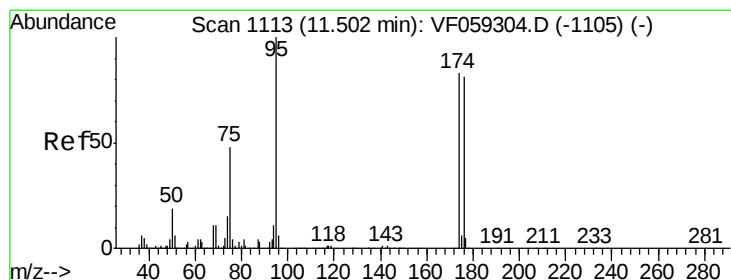
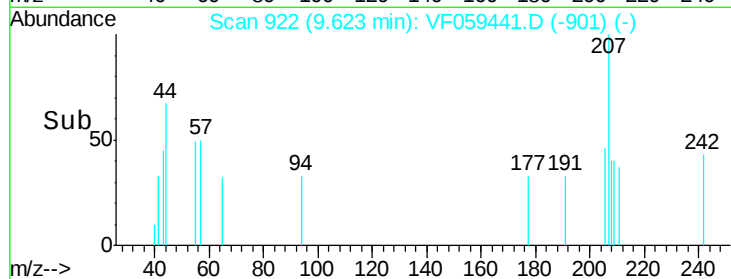
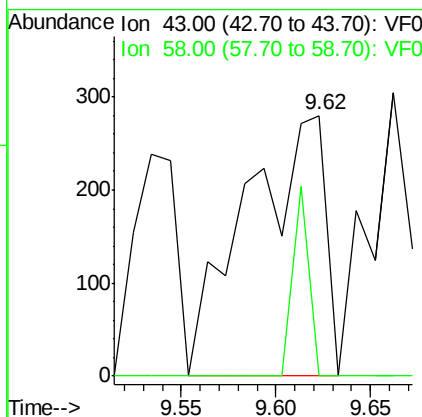
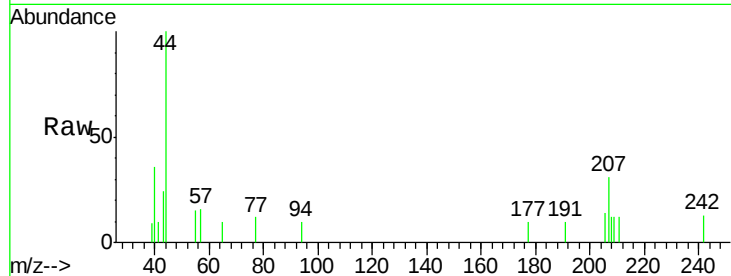




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF059441.D
Acq: 5 Jul 2018 18:31

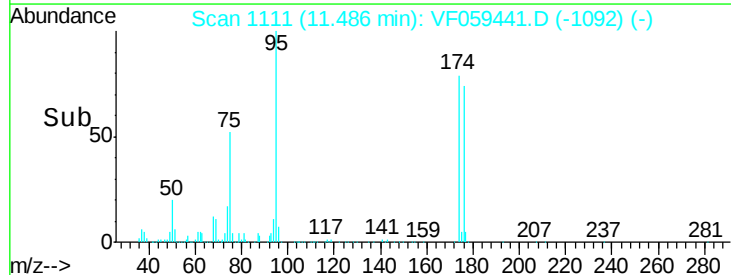
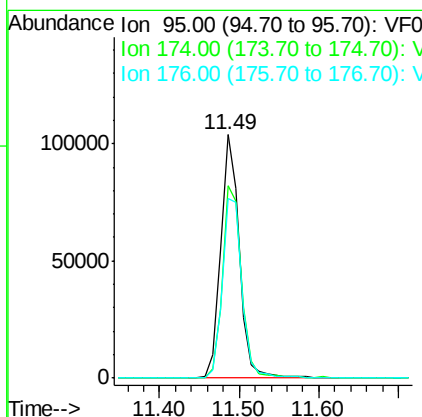
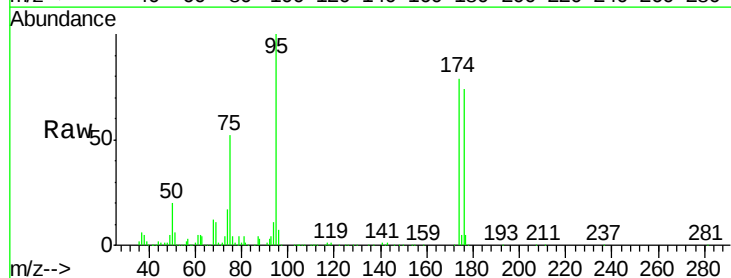
Instrument :
MSVOA_F
ClientSampleId :

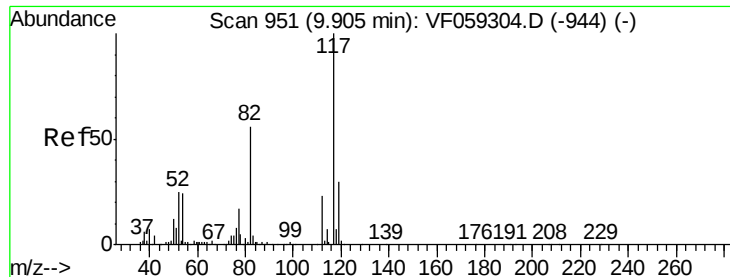
Tot Ion: 43 Resp: 806
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 56.455 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF059441.D
Acq: 5 Jul 2018 18:31

Tgt Ion: 95 Resp: 172037
Ion Ratio Lower Upper
95 100
174 79.2 0.0 165.2
176 73.7 0.0 161.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.89 min Scan# 949

Delta R.T. -0.02 min

Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

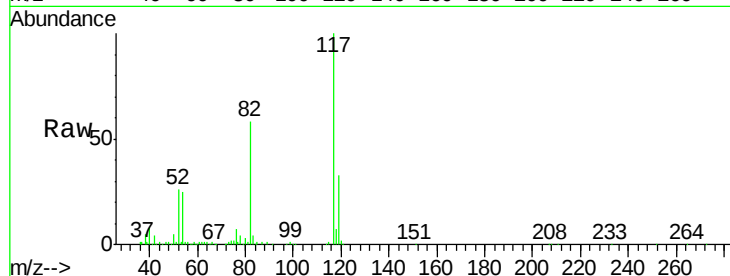
Tot Ion:117 Resp: 301350

Ion Ratio Lower Upper

117 100

82 58.5 44.6 66.8

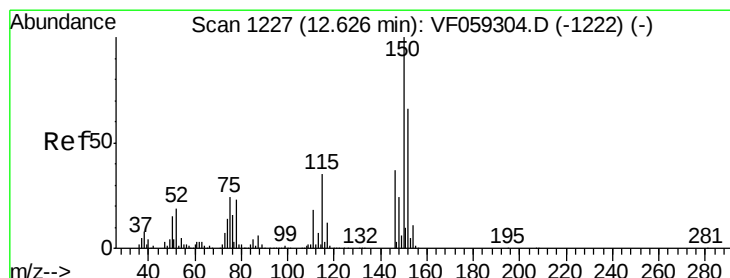
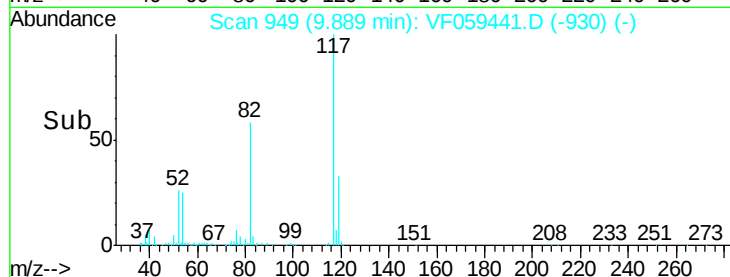
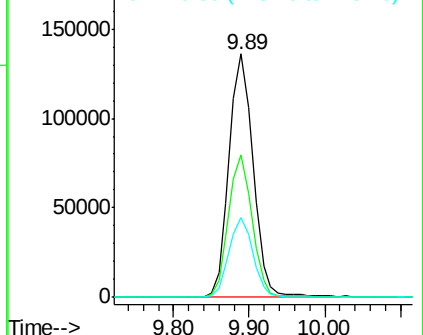
119 32.7 24.1 36.1



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

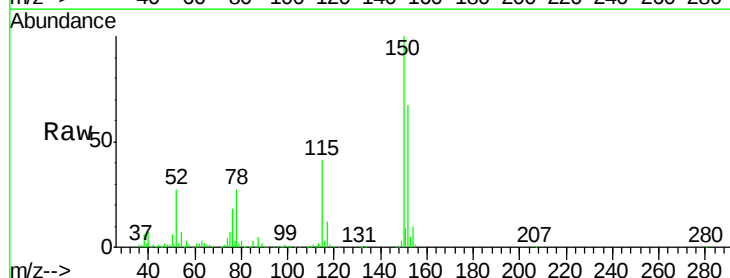
Tgt Ion:152 Resp: 189982

Ion Ratio Lower Upper

152 100

115 61.6 27.1 81.3

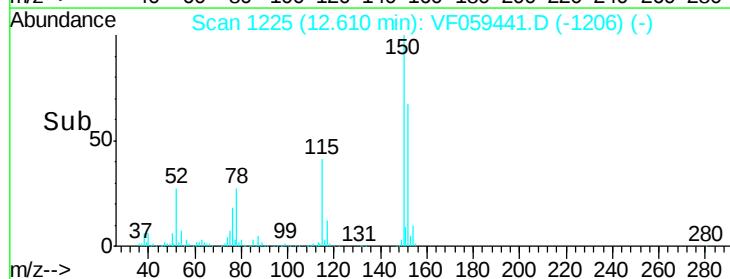
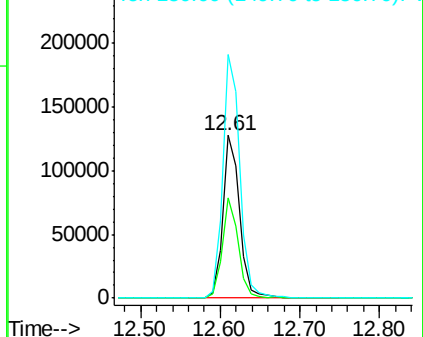
150 149.9 0.0 305.2

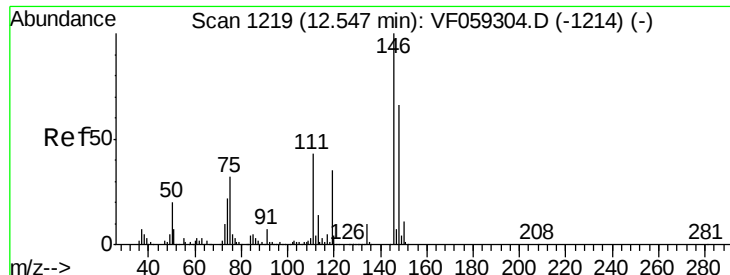


Abundance Ion 152.00 (151.70 to 152.70): V

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: 12.55 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF059441.D

Acq: 5 Jul 2018 18:31

Instrument :

MSVOA_F

ClientSampleId :

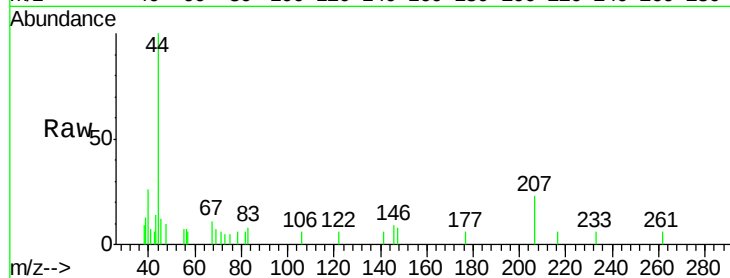
Tot Ion:146 Resp: 352

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

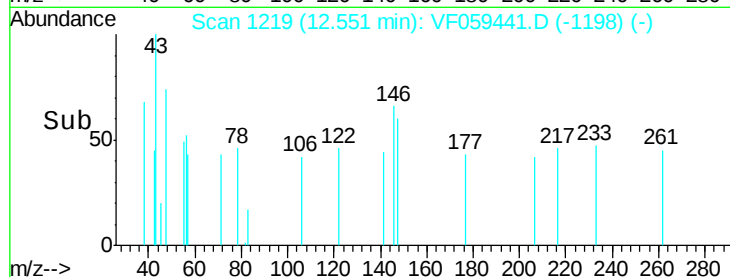
148 0.0 32.8 98.4#



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-->

