

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059346.D
 Acq On : 27 Jun 2018 18:32
 Operator : VA/AP
 Sample : J3677-06
 Misc : 5.05µ/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 28 01:44:10 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	5.04	168	199090	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.76	114	295442	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	301587	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	179883	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	108511	42.19	ug/l	0.01
Spiked Amount			Recovery	=	84.38%	
35) Dibromofluoromethane	4.29	113	96494	44.70	ug/l	0.01
Spiked Amount			Recovery	=	89.40%	
50) Toluene-d8	7.70	98	209046	39.11	ug/l	0.00
Spiked Amount			Recovery	=	78.22%	
62) 4-Bromofluorobenzene	11.50	95	113987	37.81	ug/l	0.00
Spiked Amount			Recovery	=	75.62%	

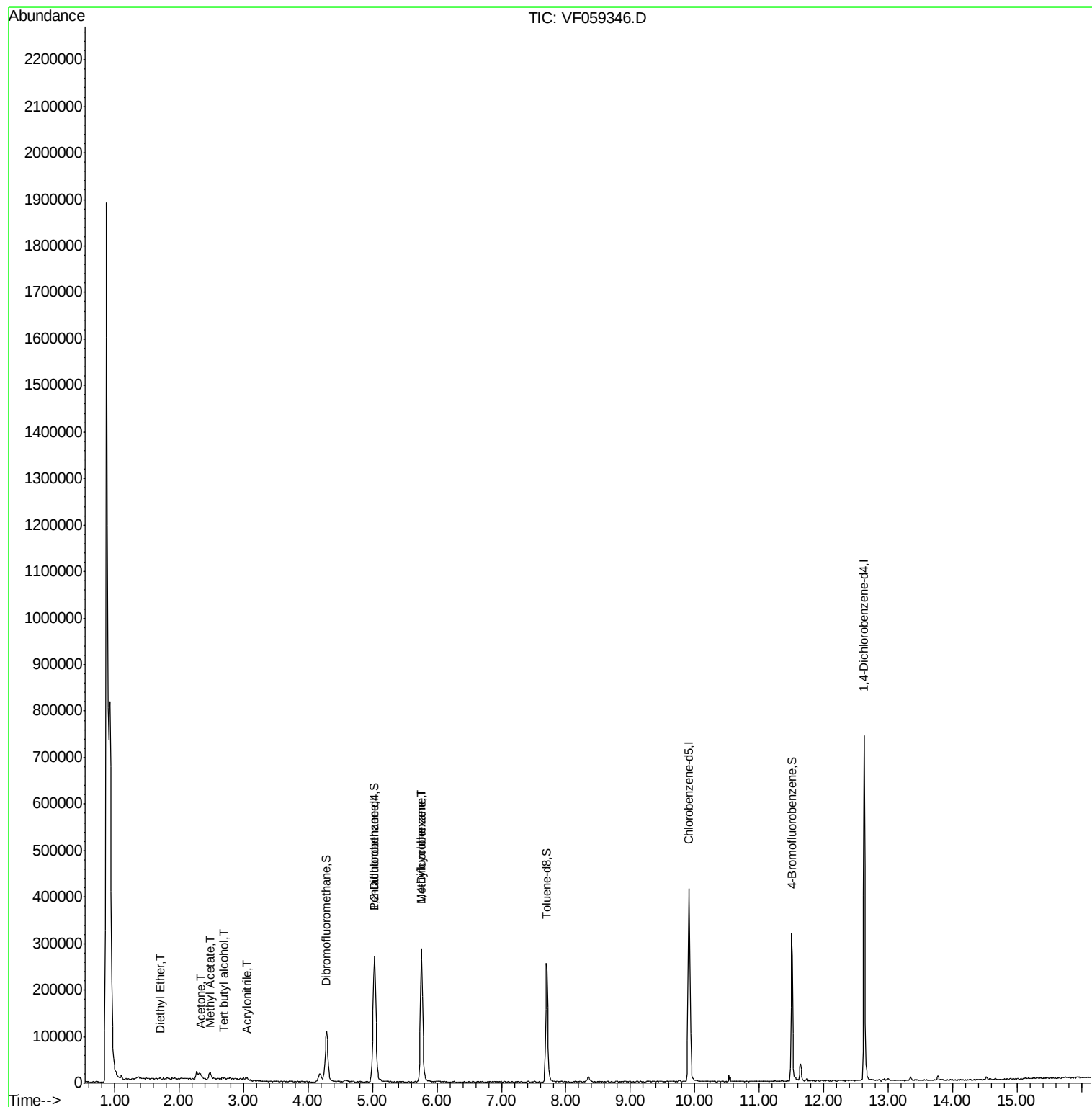
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.35	94	193	Below Cal	#	4
8) Diethyl Ether	1.70	74	782	1.282	ug/l	83
11) Tert butyl alcohol	2.69	59	312	1.822	ug/l #	2
13) Acrolein	2.09	56	792	Below Cal		88
15) Acrylonitrile	3.05	53	483	1.602	ug/l #	93
16) Acetone	2.34	43	7418	1.405	ug/l	97
18) Methyl Acetate	2.48	43	5275	3.460	ug/l #	75
20) Methylene Chloride	2.28	84	5961	Below Cal		94
25) 2-Butanone	4.46	43	451	Below Cal	#	59
28) Bromochloromethane	3.95	49	63	Below Cal	#	6
29) Tetrahydrofuran	4.23	42	418	Below Cal	#	47
37) Ethyl Acetate	4.25	43	227	Below Cal	#	85
39) Methylcyclohexane	5.75	83	3454	1.510	ug/l #	31
49) 1,4-Dioxane	6.99	88	79	Below Cal	#	40
59) 2-Hexanone	9.62	43	623	Below Cal		78
87) 1,3-Dichlorobenzene	12.56	146	252	Below Cal	#	65

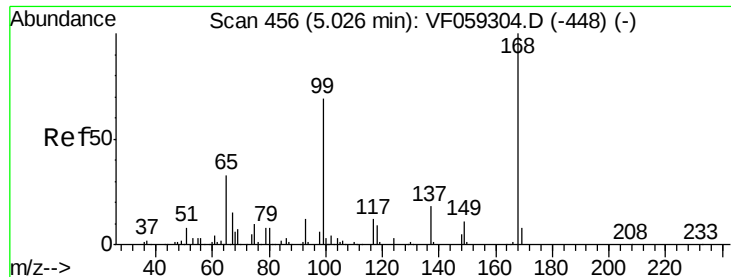
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Instrument :

MSVOA_F

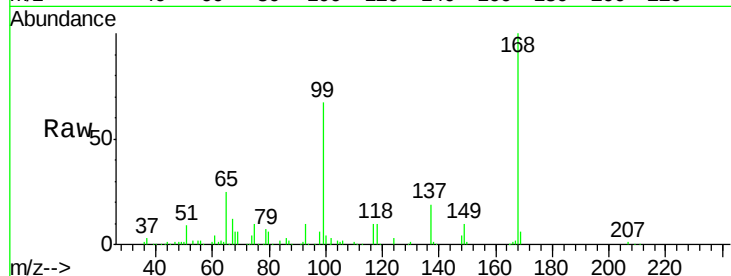
ClientSampled :

Tot Ion:168 Resp: 199090

Ion Ratio Lower Upper

168 100

99 66.9 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

80000

60000

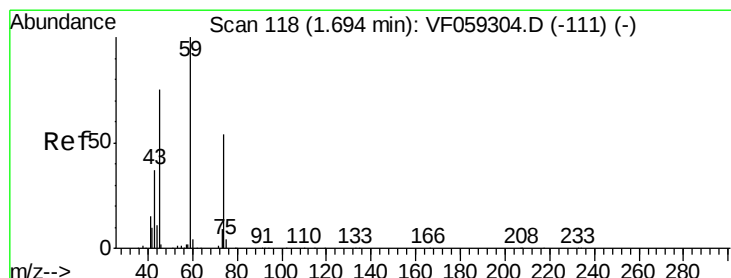
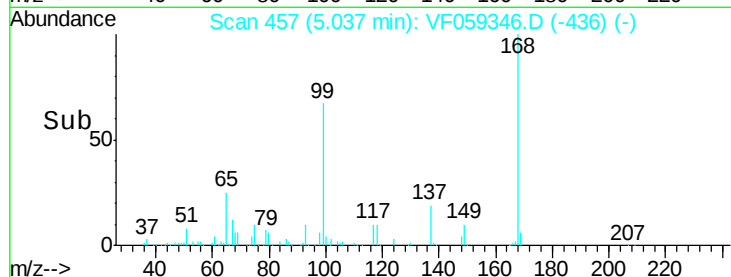
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#8

Diethyl Ether

Concen: 1.282 ug/l

RT: 1.70 min Scan# 119

Delta R.T. 0.01 min

Lab File: VF059346.D

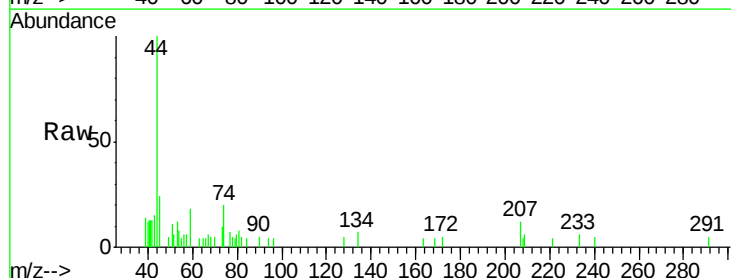
Acq: 27 Jun 2018 18:32

Tgt Ion: 74 Resp: 782

Ion Ratio Lower Upper

74 100

45 118.9 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

800

600

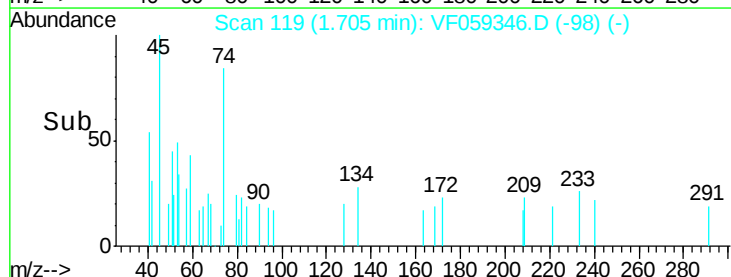
400

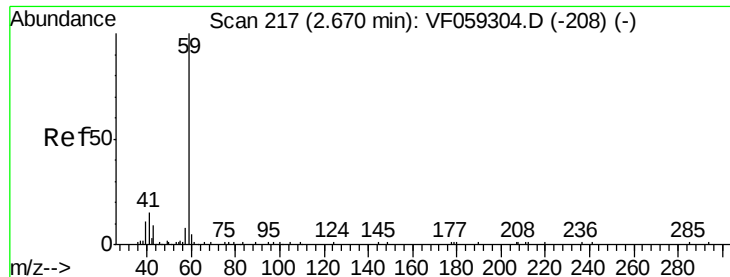
200

0

Time-->

1.65 1.70 1.75



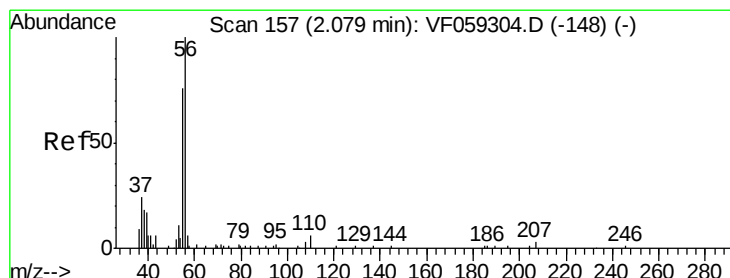
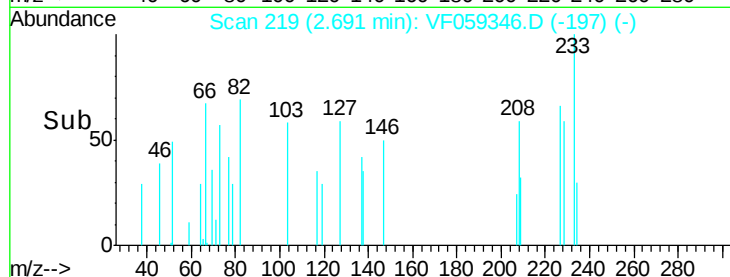
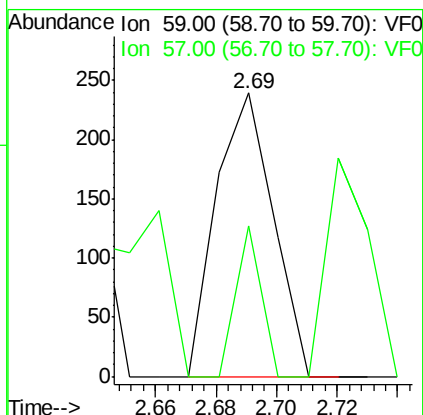
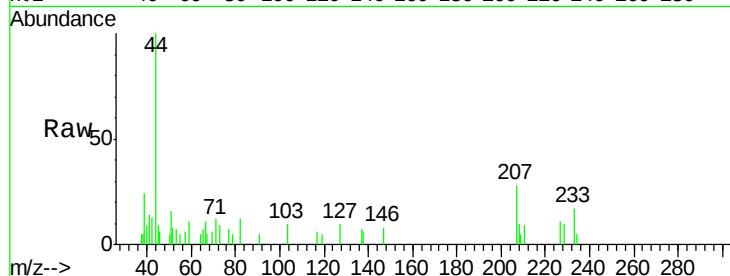


#11

Tert butyl alcohol
Concen: 1.822 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.02 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

Instrument :
MSVOA_F
ClientSampled :

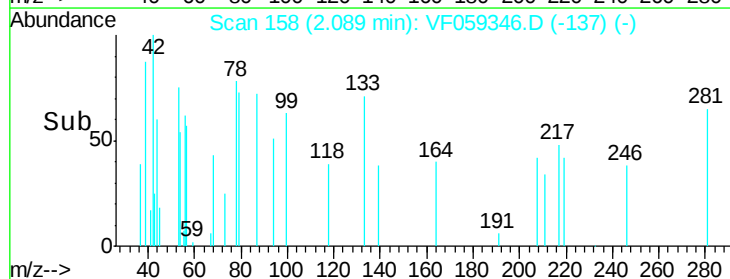
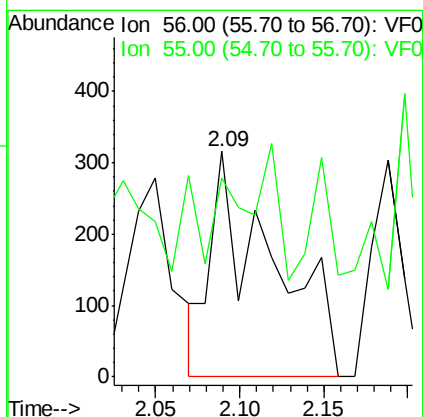
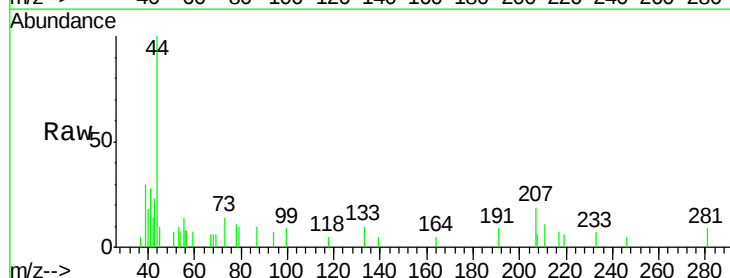
Tot Ion: 59 Resp: 312
Ion Ratio Lower Upper
59 100
57 53.1 11.0 16.4#

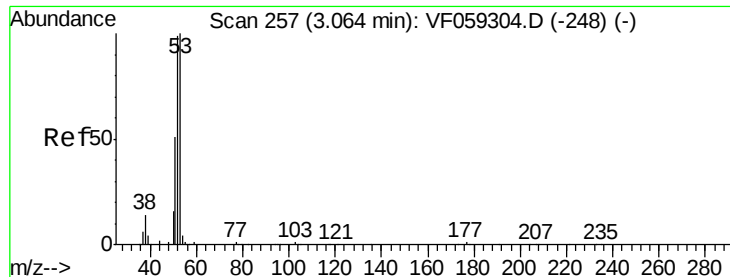


#13

Acrolein
Concen: Below Cal
RT: 2.09 min Scan# 158
Delta R.T. 0.01 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

Tgt Ion: 56 Resp: 792
Ion Ratio Lower Upper
56 100
55 88.3 62.4 93.6





#15

Acrylonitrile

Concen: 1.602 ug/l

RT: 3.05 min Scan# 255

Delta R.T. -0.02 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Instrument :
MSVOA_F
ClientSampled :

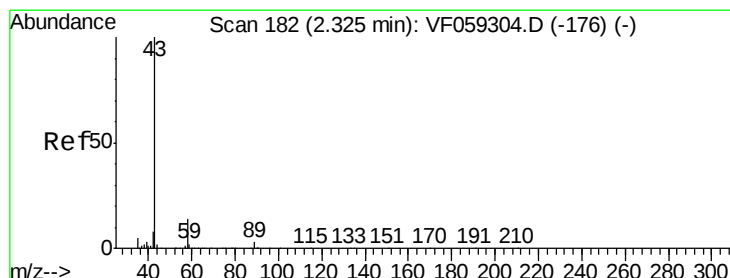
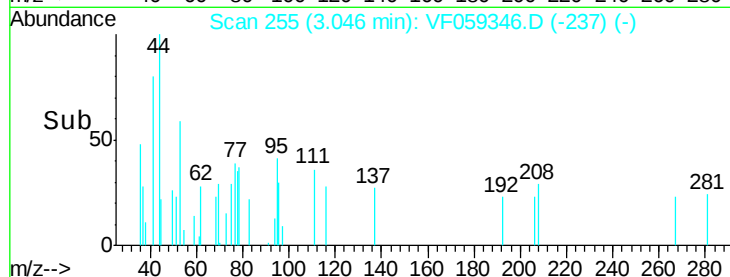
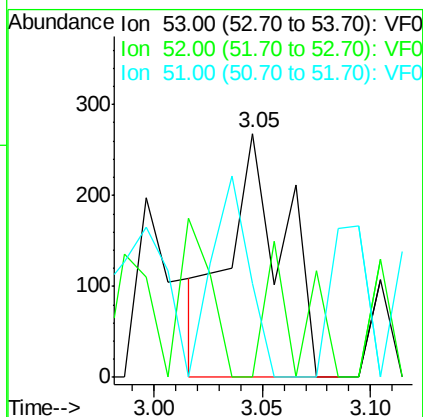
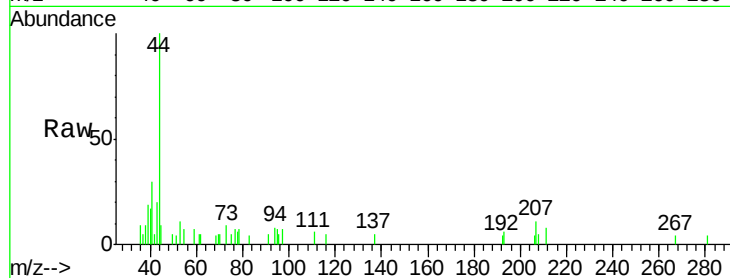
Tot Ion: 53 Resp: 483

Ion Ratio Lower Upper

53 100

52 100.0 79.2 118.8

51 38.4 40.9 61.3#



#16

Acetone

Concen: 1.405 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059346.D

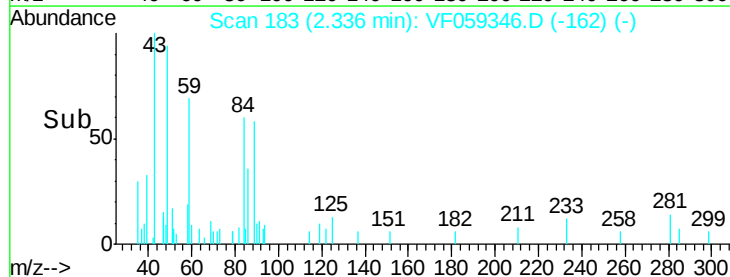
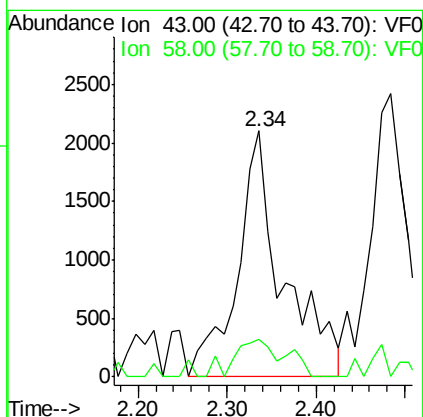
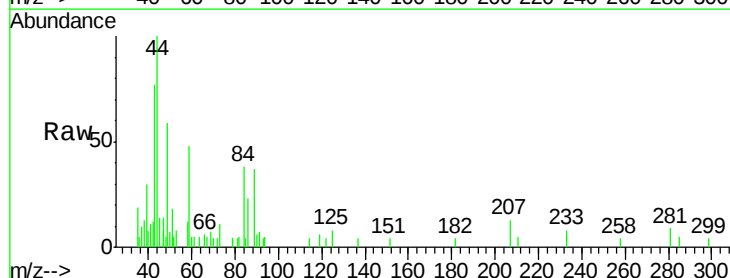
Acq: 27 Jun 2018 18:32

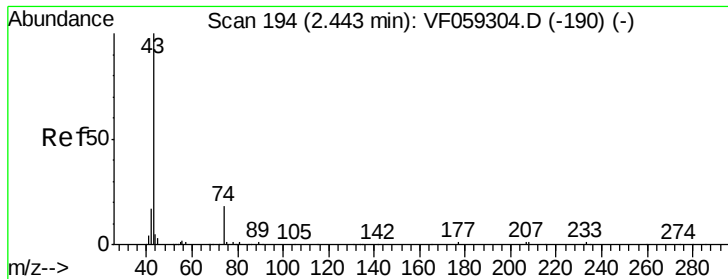
Tgt Ion: 43 Resp: 7418

Ion Ratio Lower Upper

43 100

58 15.4 11.4 17.0





#18

Methyl Acetate

Concen: 3.460 ug/l

RT: 2.48 min Scan# 198

Delta R.T. 0.04 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

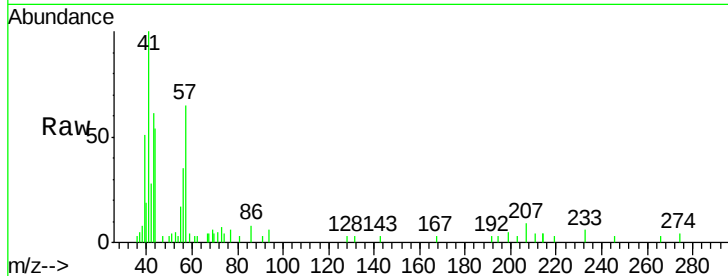
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 5275

Ion Ratio Lower Upper

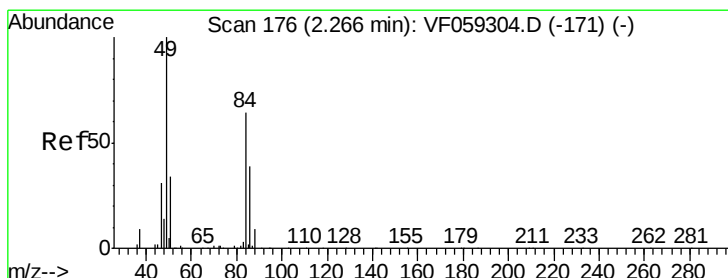
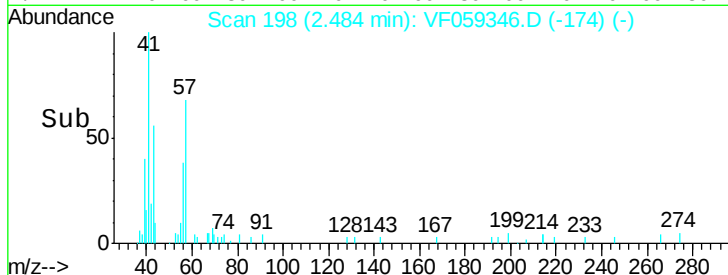
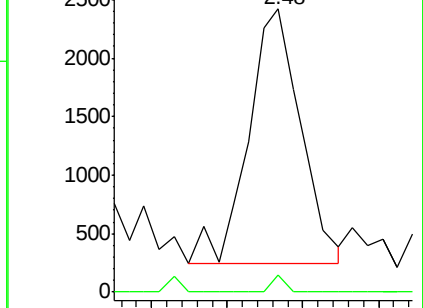
43 100

74 6.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.28 min Scan# 177

Delta R.T. 0.01 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Tgt Ion: 84 Resp: 5961

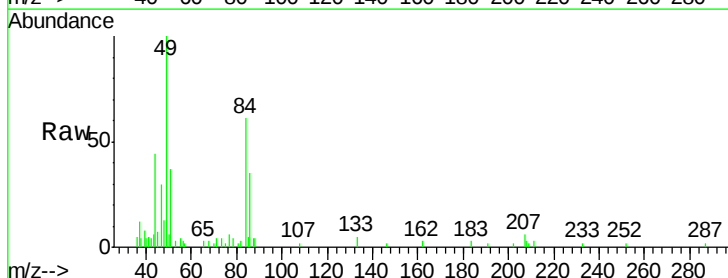
Ion Ratio Lower Upper

84 100

49 163.7 126.5 189.7

51 61.3 42.9 64.3

86 57.5 48.6 73.0

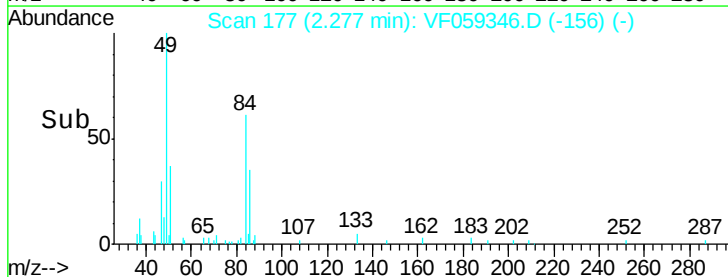
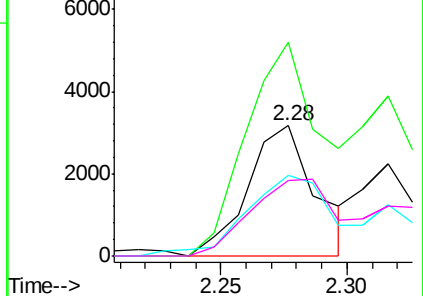


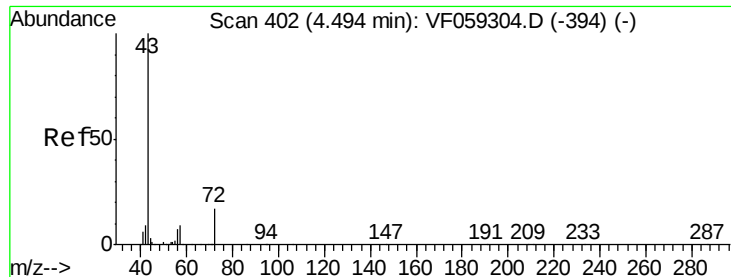
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

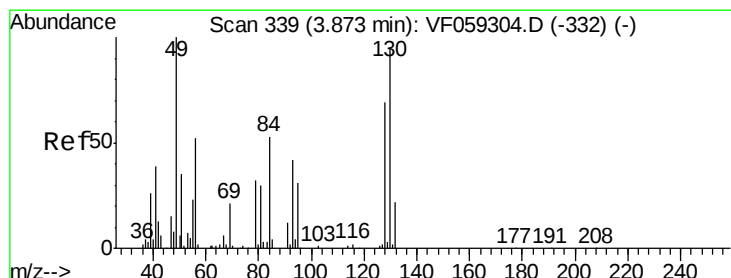
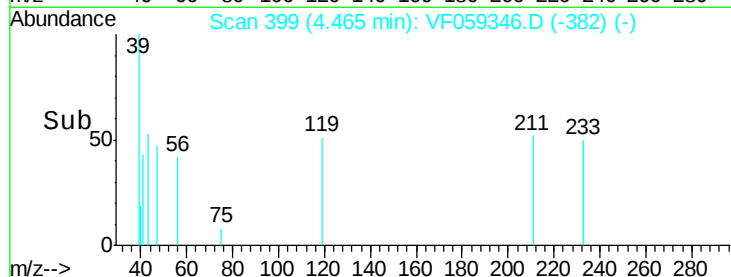
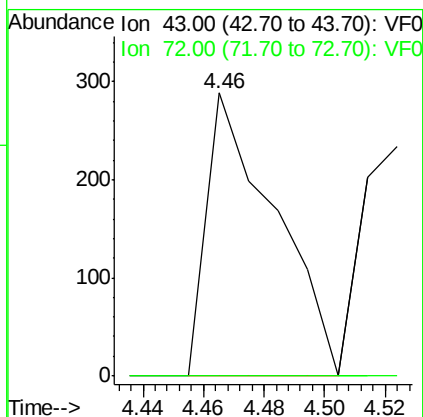
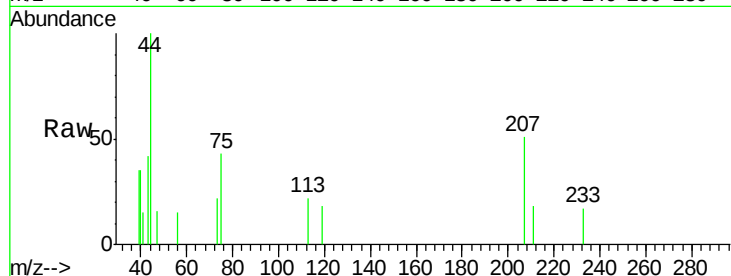




#25
2-Butanone
Concen: Below Cal
RT: 4.46 min Scan# 399
Delta R.T. -0.03 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

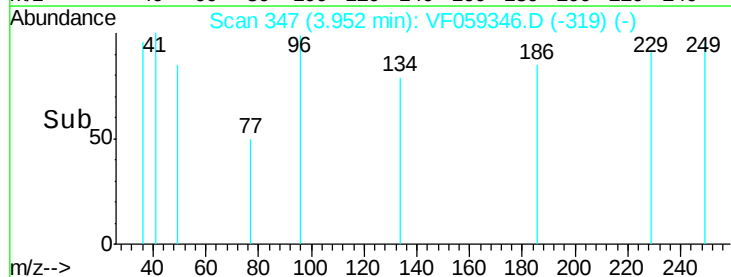
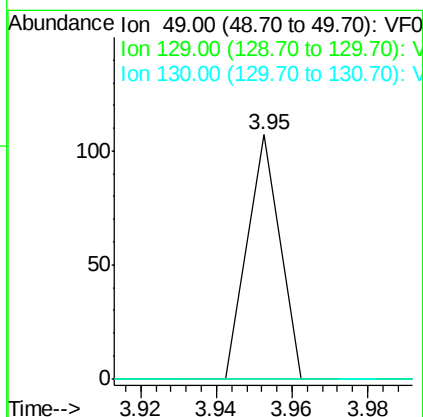
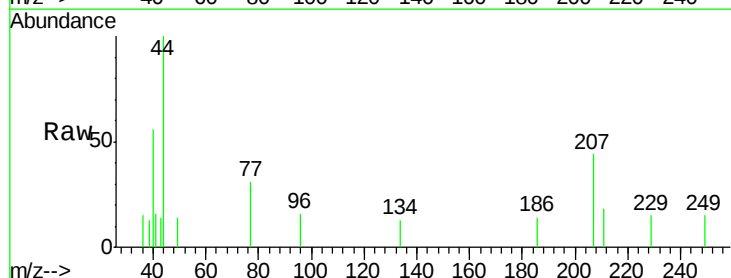
Instrument :
MSVOA_F
ClientSampleId :

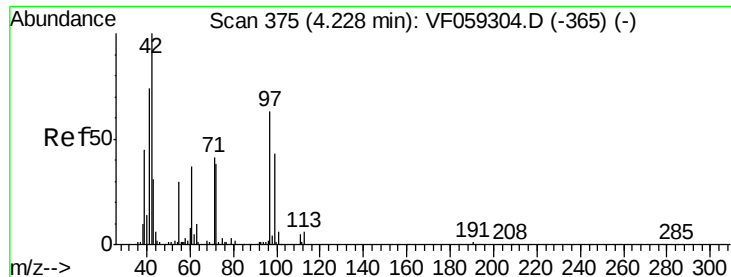
Tot Ion: 43 Resp: 451
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#



#28
Bromochloromethane
Concen: Below Cal
RT: 3.95 min Scan# 347
Delta R.T. 0.08 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

Tgt Ion: 49 Resp: 63
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: 4.23 min Scan# 375

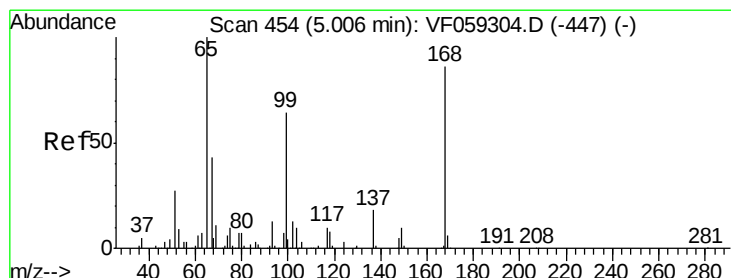
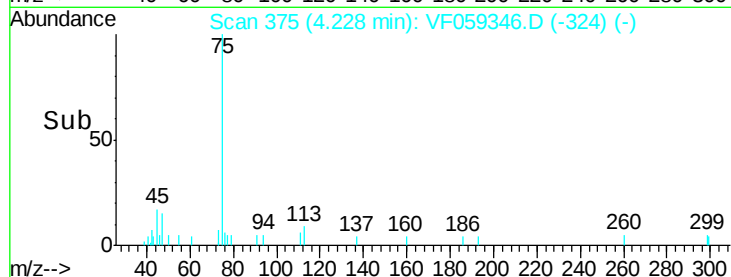
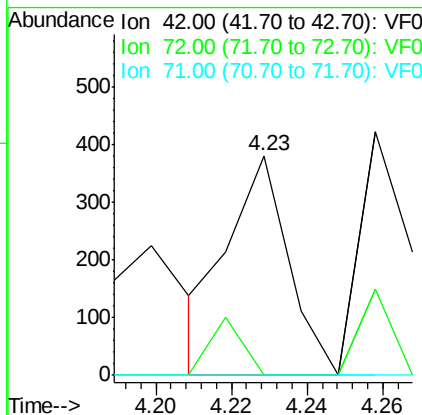
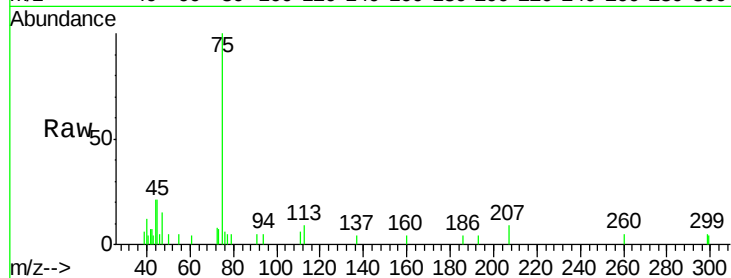
Delta R.T. 0.00 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	42	Resp:	418
Ion	Ratio	Lower	Upper
42	100		
72	14.4	30.5	45.7#
71	0.0	32.5	48.7#



#33

1,2-Dichloroethane-d4

Concen: 42.186 ug/l

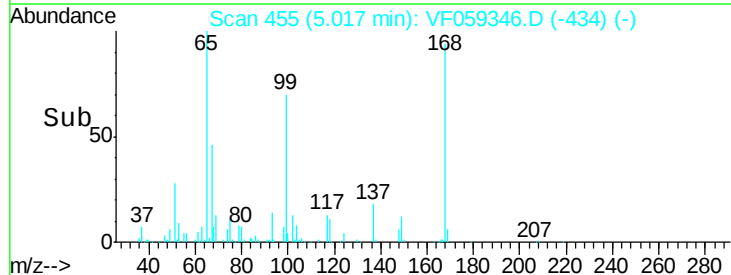
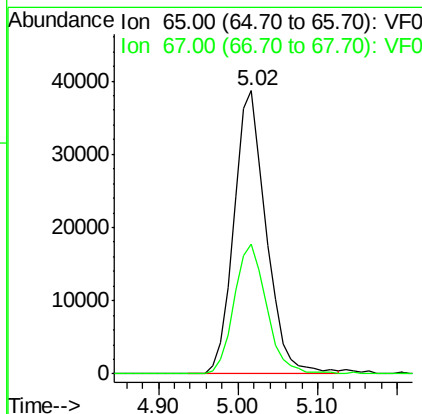
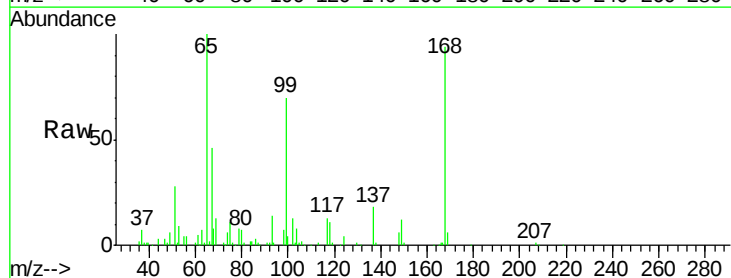
RT: 5.02 min Scan# 455

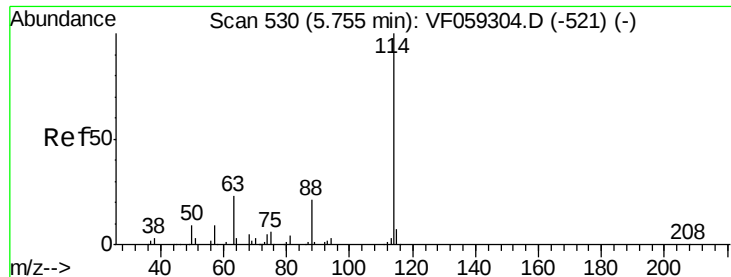
Delta R.T. 0.01 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Tgt Ion:	65	Resp:	108511
Ion	Ratio	Lower	Upper
65	100		
67	45.7	0.0	96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.00 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

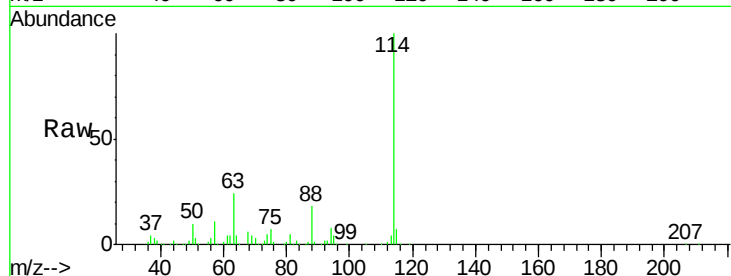
Tot Ion:114 Resp: 295442

Ion Ratio Lower Upper

114 100

63 23.9 0.0 45.8

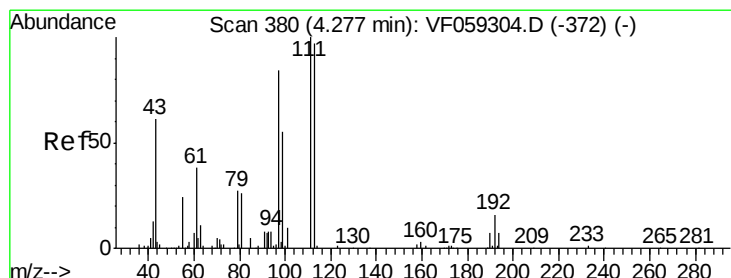
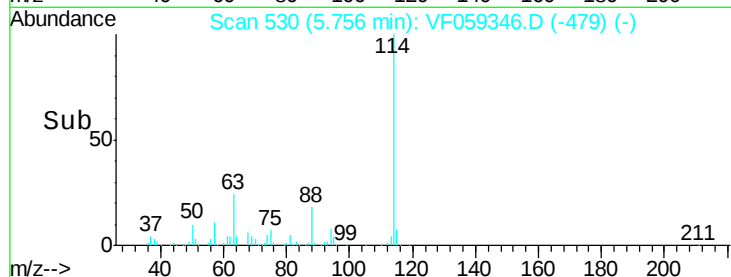
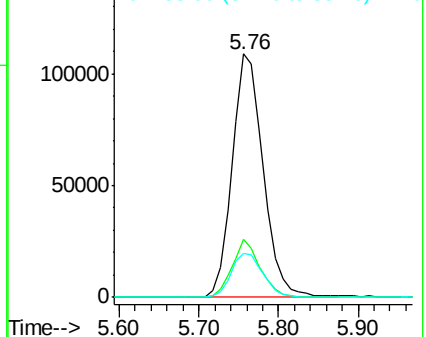
88 18.3 0.0 41.2



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: 44.700 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

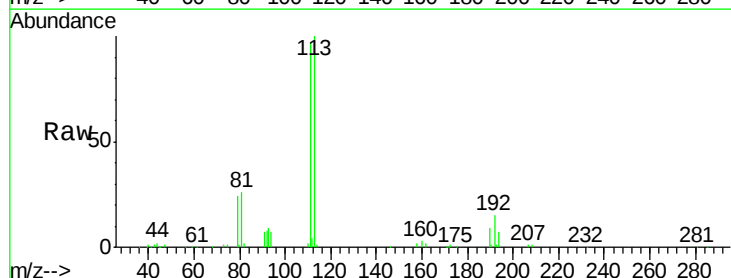
Tgt Ion:113 Resp: 96494

Ion Ratio Lower Upper

113 100

111 96.8 82.1 123.1

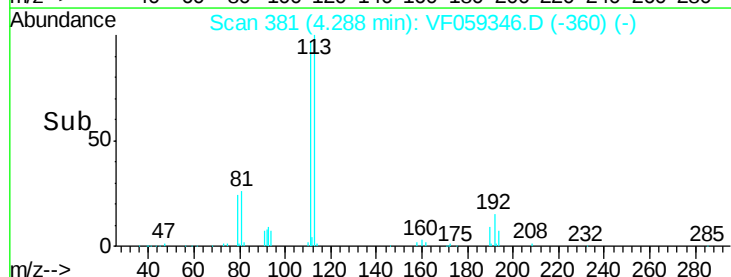
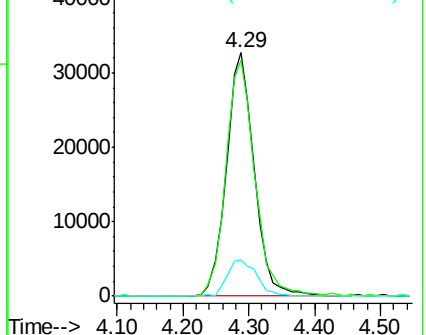
192 15.0 13.0 19.6

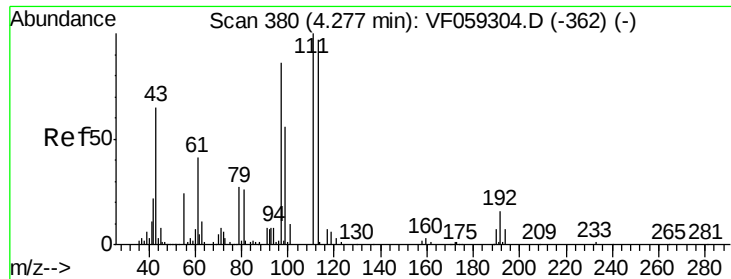


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

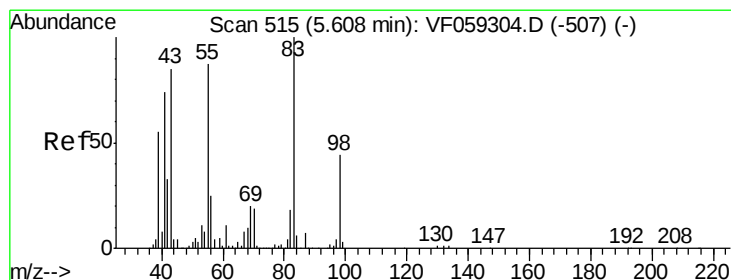
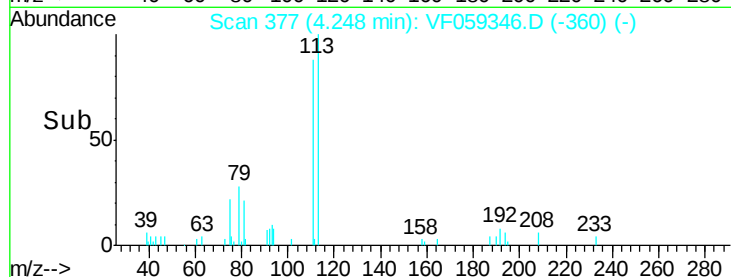
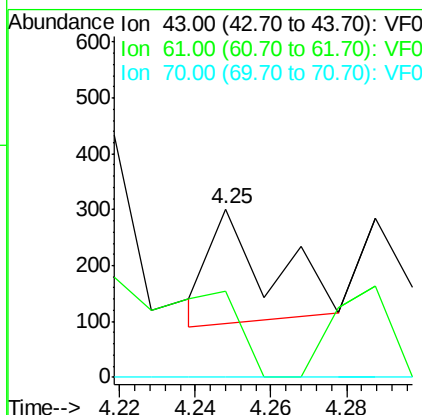
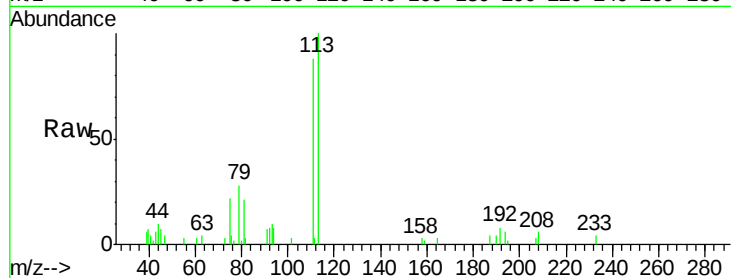




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. -0.03 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

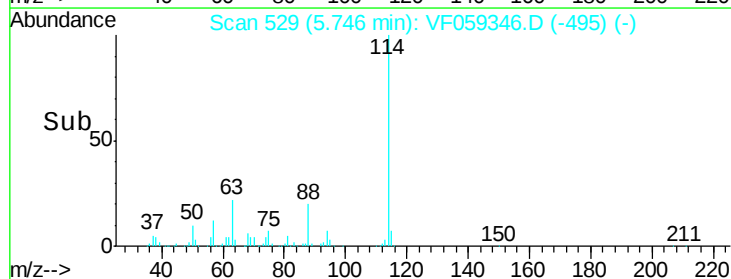
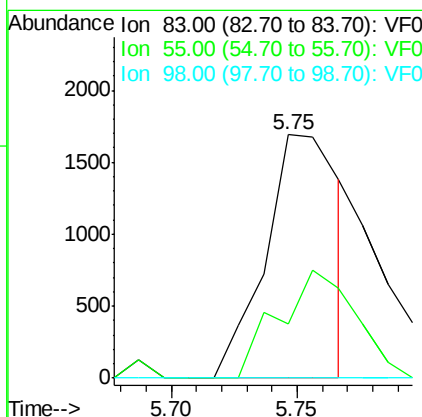
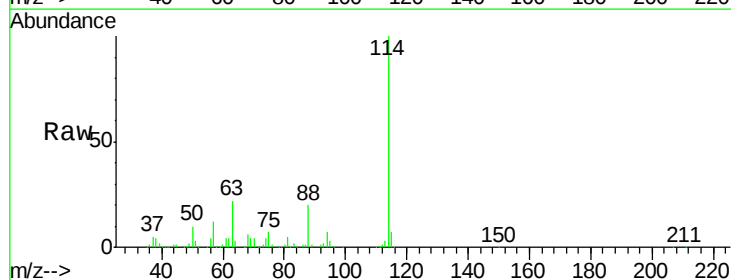
Instrument :
MSVOA_F
ClientSampled :

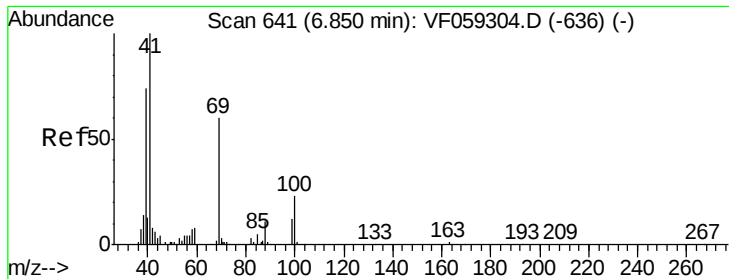
Tot Ion: 43 Resp: 227
Ion Ratio Lower Upper
43 100
61 51.3 50.1 75.1
70 0.0 6.2 9.4#



#39
Methylcyclohexane
Concen: 1.510 ug/l
RT: 5.75 min Scan# 529
Delta R.T. 0.14 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

Tgt Ion: 83 Resp: 3454
Ion Ratio Lower Upper
83 100
55 22.5 69.2 103.8#
98 0.0 35.0 52.6#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.99 min Scan# 655

Delta R.T. 0.14 min

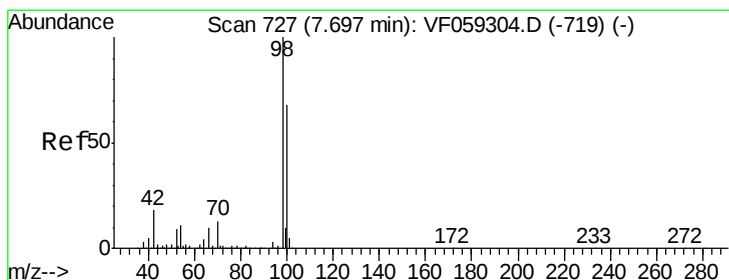
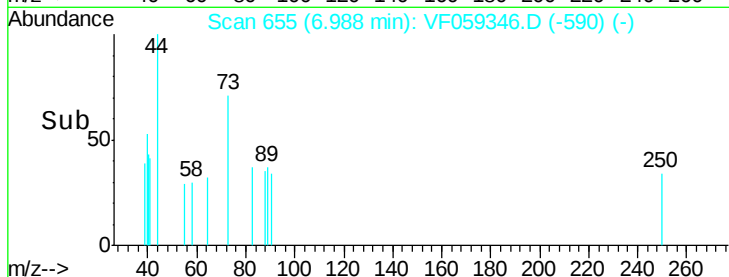
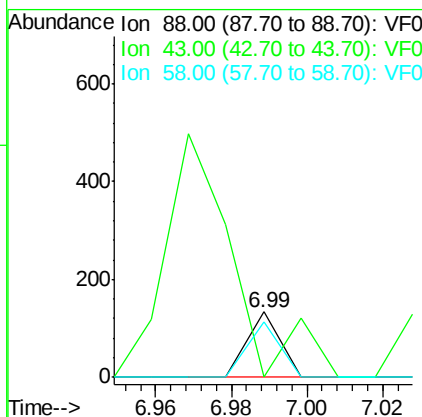
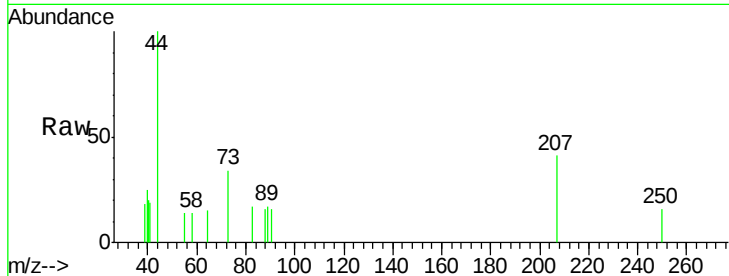
Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 79

Ion	Ratio	Lower	Upper
88	100		
43	0.0	50.6	75.8#
58	85.7	46.6	69.8#



#50

Toluene-d8

Concen: 39.113 ug/l

RT: 7.70 min Scan# 727

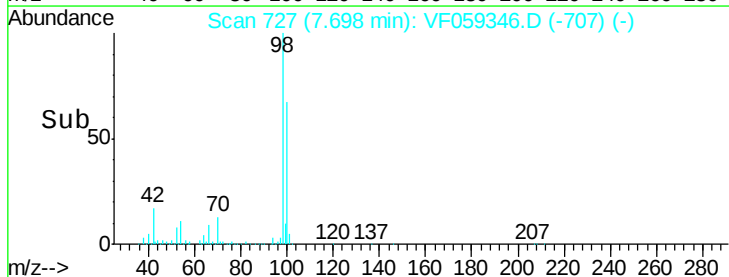
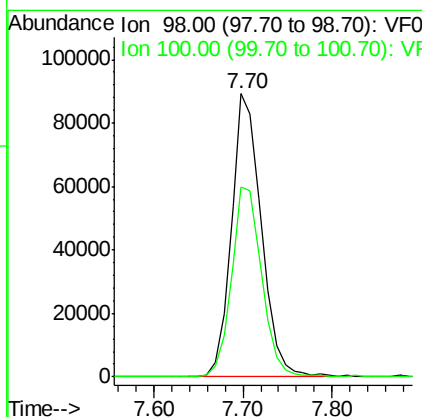
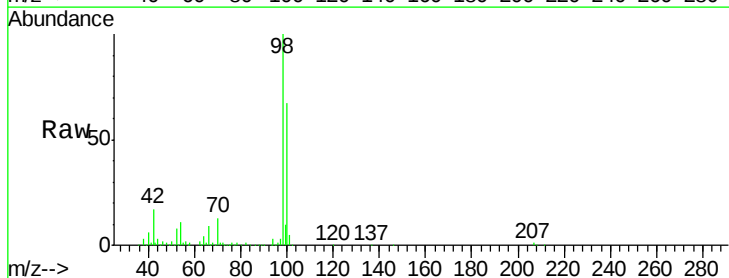
Delta R.T. 0.00 min

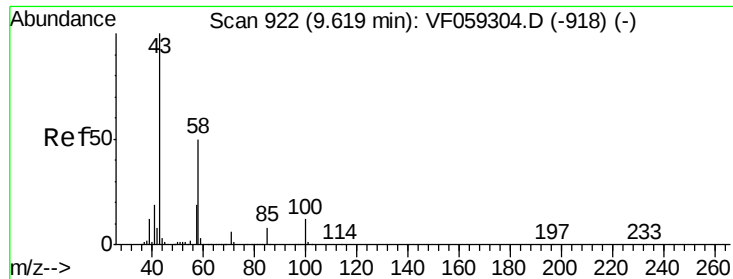
Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Tgt Ion: 98 Resp: 209046

Ion	Ratio	Lower	Upper
98	100		
100	67.3	54.6	82.0

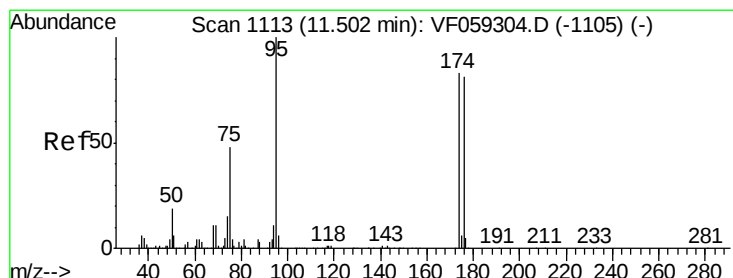
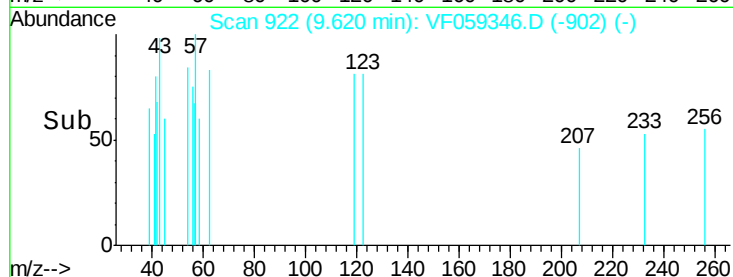
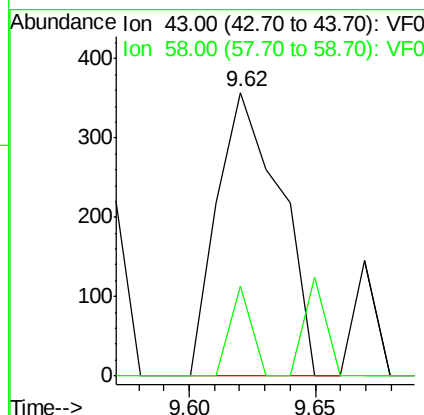
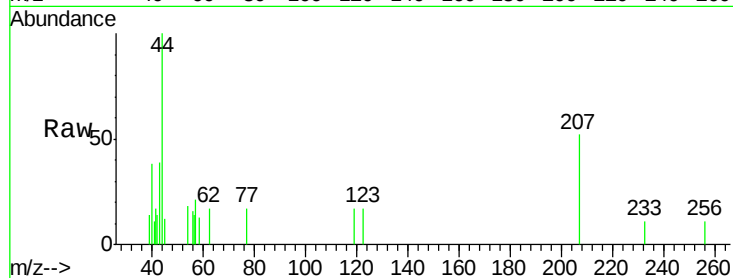




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

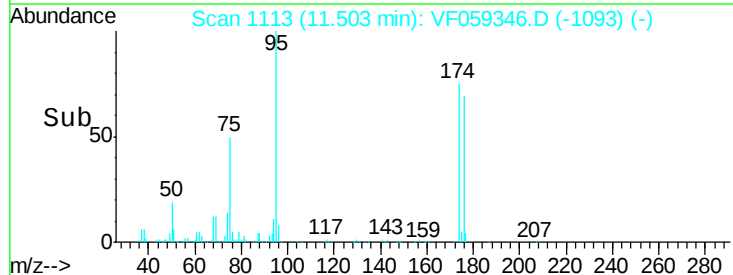
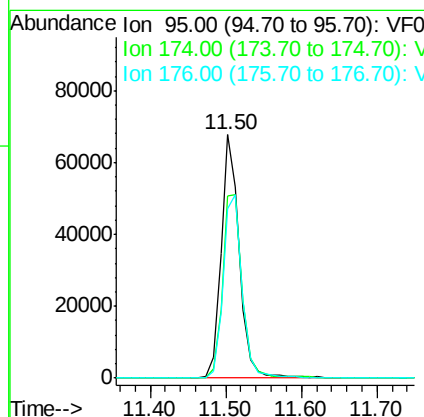
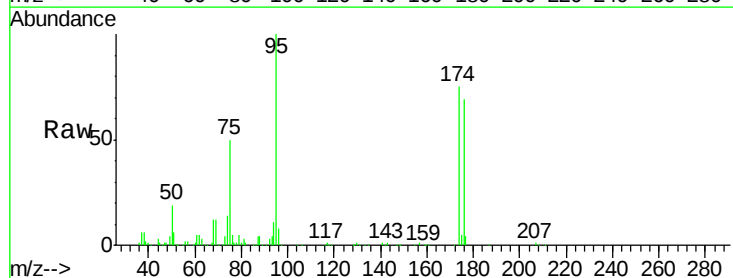
Instrument :
MSVOA_F
ClientSampleId :

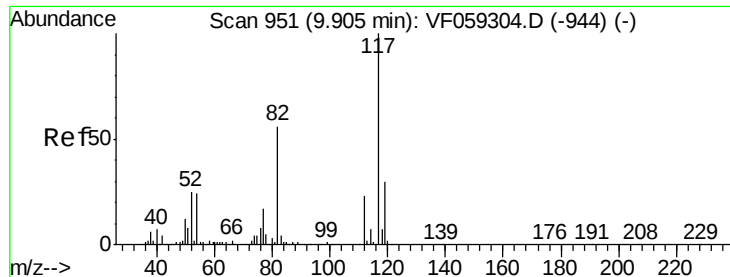
Tot Ion: 43 Resp: 623
Ion Ratio Lower Upper
43 100
58 31.9 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 37.808 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

Tgt Ion: 95 Resp: 113987
Ion Ratio Lower Upper
95 100
174 75.0 0.0 165.2
176 69.4 0.0 161.0

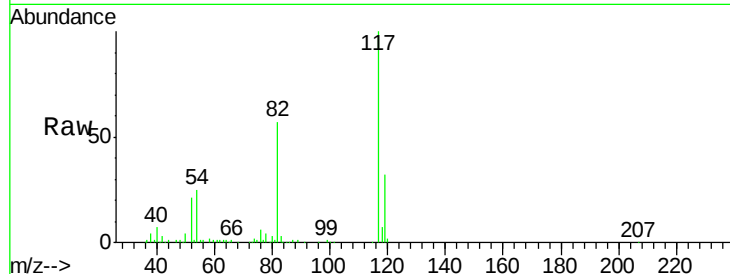




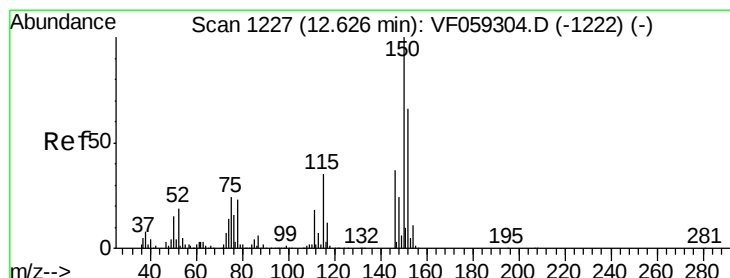
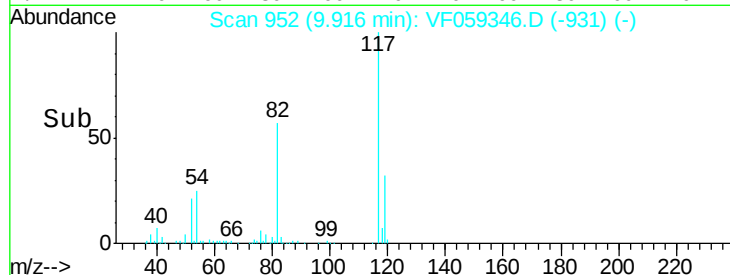
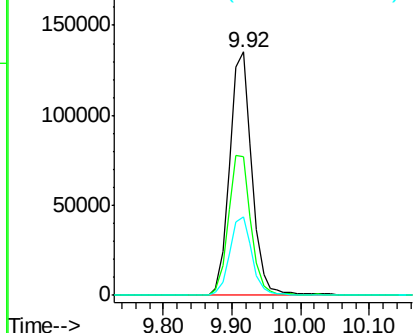
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.6	66.8
119	32.0	24.1	36.1

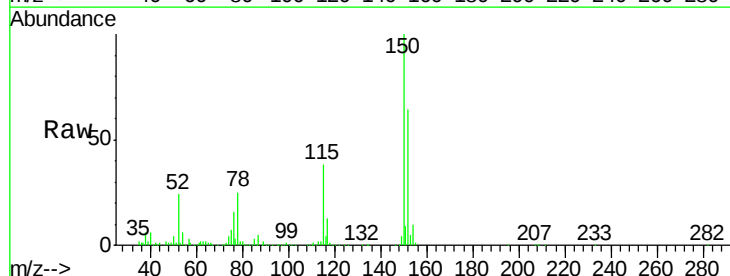


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

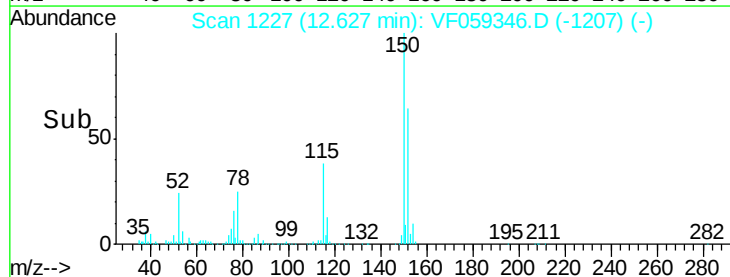
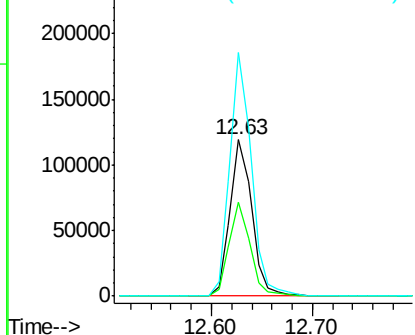


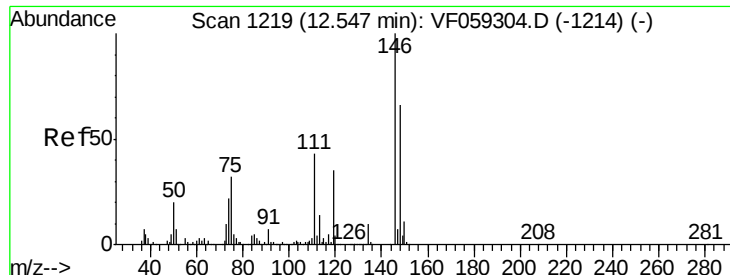
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. 0.00 min
Lab File: VF059346.D
Acq: 27 Jun 2018 18:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.8	27.1	81.3
150	156.1	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: 12.56 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VF059346.D

Acq: 27 Jun 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

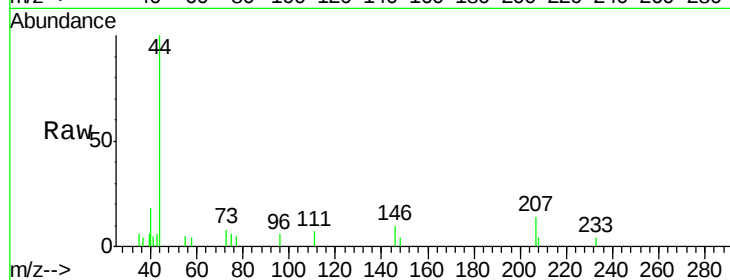
Tot Ion:146 Resp: 252

Ion Ratio Lower Upper

146 100

111 68.4 21.4 64.2#

148 40.3 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

