

Data File : VF059989.D
Acq On : 17 Aug 2018 23:35
Operator : VA/AP
Sample : J4501-04RE
Misc : 5.06g/5mL/MSVOA_F/SOIL
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
RA-081318-FL-019

Quant Time: Aug 18 01:42:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
Quant Title : SW846 8260
QLast Update : Sat Aug 18 01:11:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	116642	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	154329	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	157366	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	95939	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	95482	42.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.82%	
35) Dibromofluoromethane	4.31	113	74345	47.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.28%	
50) Toluene-d8	7.72	98	156481	44.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.22%	
62) 4-Bromofluorobenzene	11.51	95	87618	40.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.42%	

Target Compounds

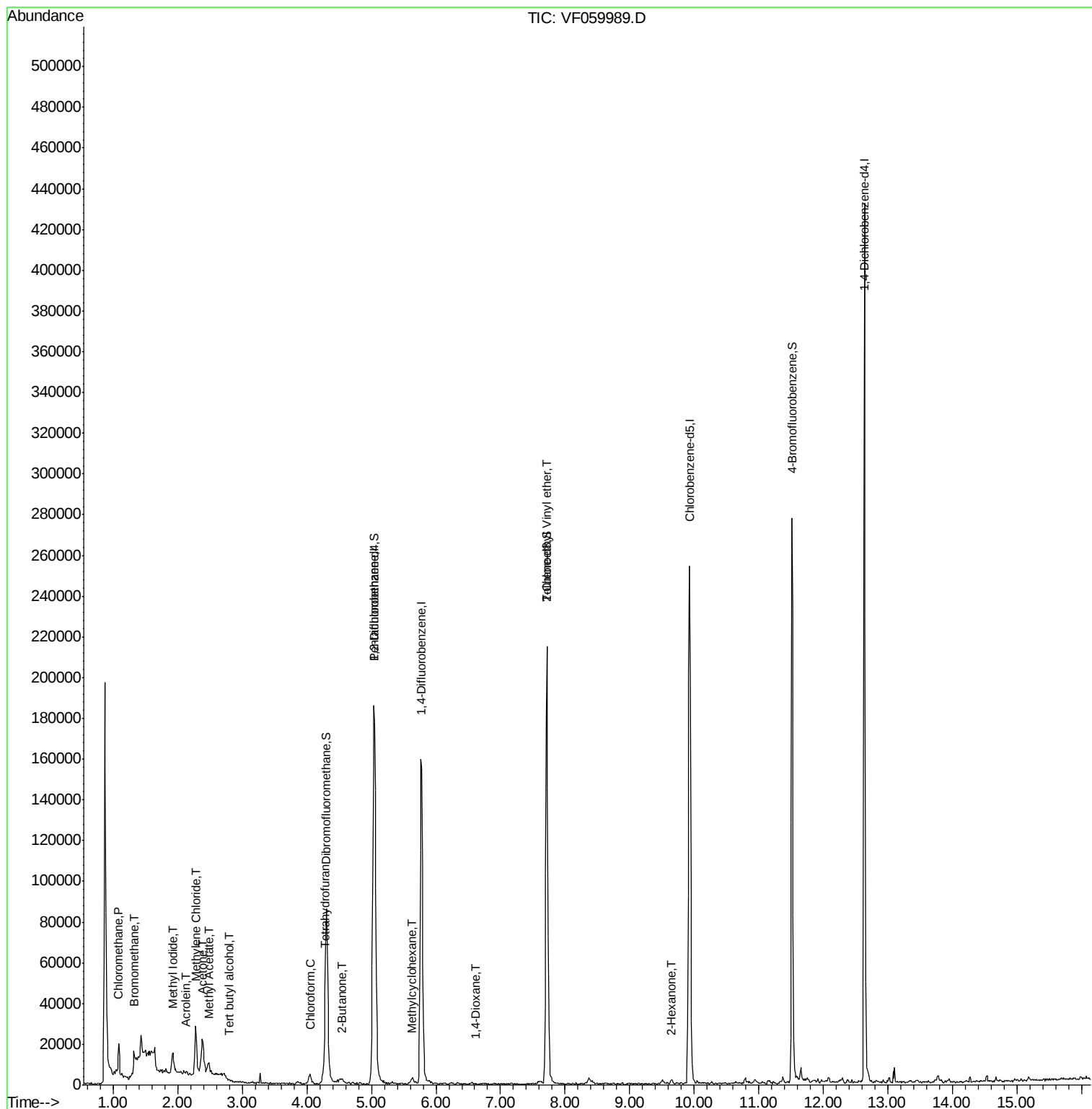
						Qvalue
3) Chloromethane	1.08	50	4656	3.147	ug/l #	69
5) Bromomethane	1.32	94	5637	4.509	ug/l	91
10) Methyl Iodide	1.92	142	11279	5.623	ug/l	88
11) Tert butyl alcohol	2.80	59	148	1.128	ug/l #	76
13) Acrolein	2.14	56	572	20.765	ug/l	82
16) Acetone	2.38	43	28431	36.060	ug/l	97
18) Methyl Acetate	2.48	43	9196	5.316	ug/l #	90
20) Methylene Chloride	2.27	84	10487	4.719	ug/l #	85
25) 2-Butanone	4.54	43	4518	8.301	ug/l #	64
29) Tetrahydrofuran	4.27	42	506	2.605	ug/l #	38
30) Chloroform	4.04	83	5582	1.850	ug/l #	79
39) Methylcyclohexane	5.62	83	1664	1.262	ug/l #	79
49) 1,4-Dioxane	6.61	88	60	65.483	ug/l #	25
58) 2-Chloroethyl Vinyl ether	7.72	63	330	3.802	ug/l	100
59) 2-Hexanone	9.65	43	1654	2.005	ug/l	80

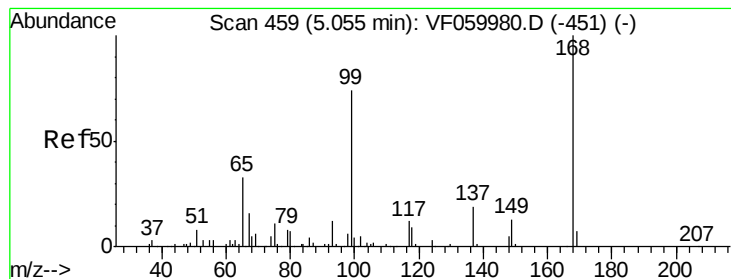
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.01 min

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Acq: 17 Aug 2018 23:35

Instrument :

MSVOA_F

ClientSampleId :

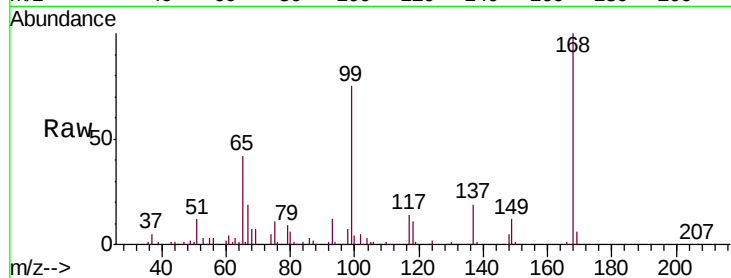
RA-081318-FL-019

Tgt Ion:168 Resp: 116642

Ion Ratio Lower Upper

168 100

99 75.2 59.0 88.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

40000

30000

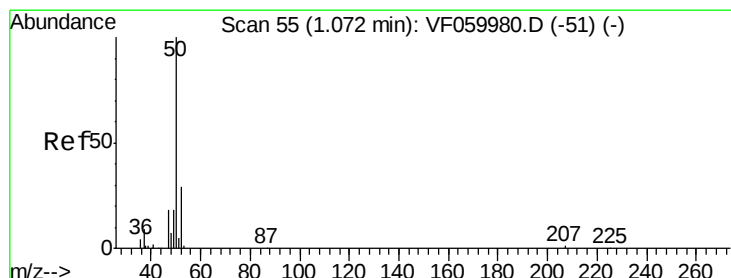
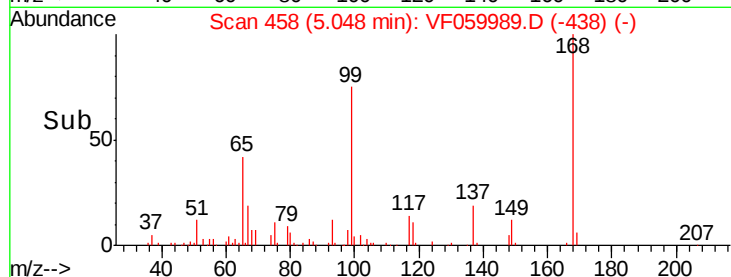
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 3.147 ug/l

RT: 1.08 min Scan# 55

Delta R.T. 0.00 min

Lab File: VF059989.D

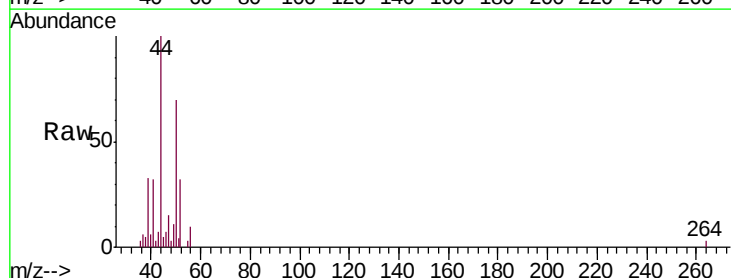
Acq: 17 Aug 2018 23:35

Tgt Ion: 50 Resp: 4656

Ion Ratio Lower Upper

50 100

52 46.0 23.6 35.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

3000

2500

2000

1500

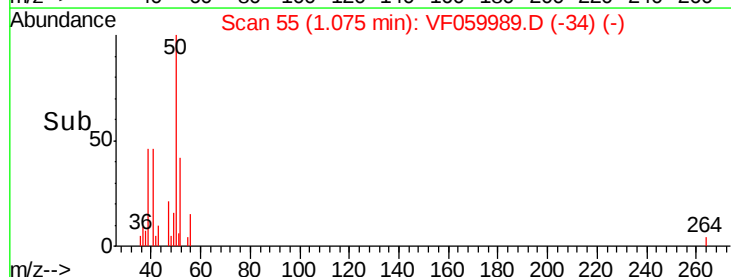
1000

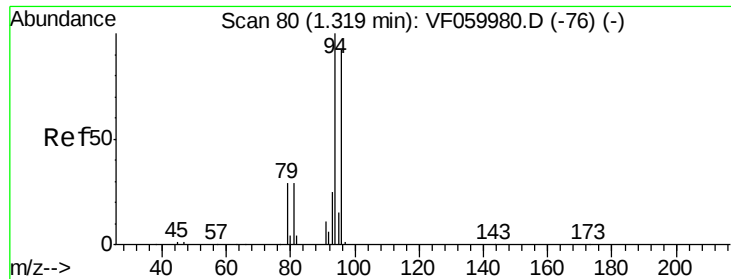
500

0

Time-->

1.00 1.05 1.10 1.15





#5

Bromomethane

Concen: 4.509 ug/l

RT: 1.32 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF059989.D

Acq: 17 Aug 2018 23:35

Instrument :

MSVOA_F

ClientSampleId :

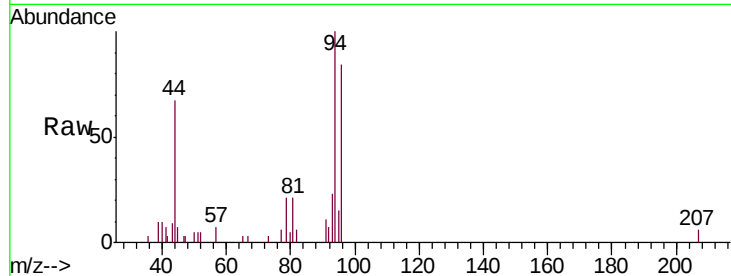
RA-081318-FL-019

Tgt Ion: 94 Resp: 5637

Ion Ratio Lower Upper

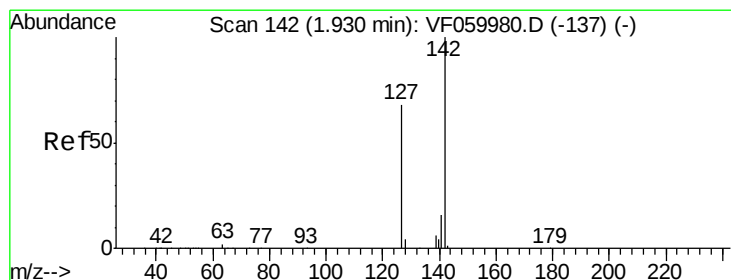
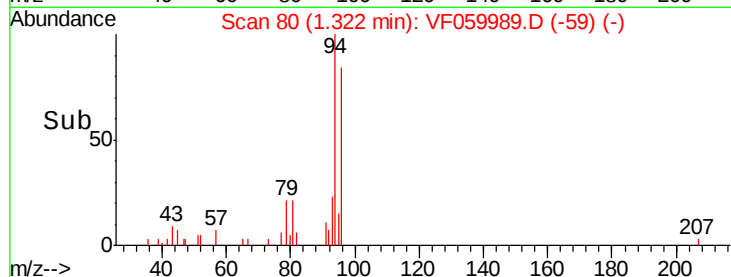
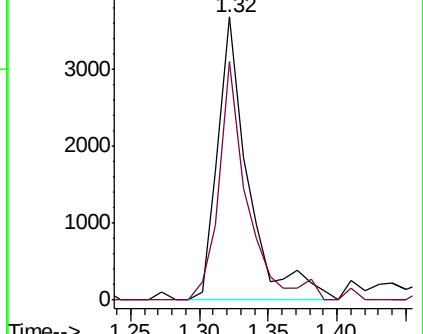
94 100

96 84.1 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#10

Methyl Iodide

Concen: 5.623 ug/l

RT: 1.92 min Scan# 141

Delta R.T. -0.01 min

Lab File: VF059989.D

Acq: 17 Aug 2018 23:35

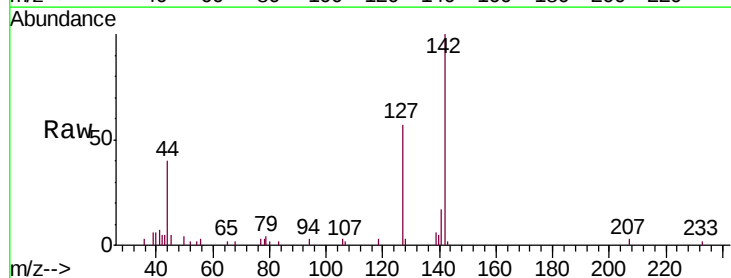
Tgt Ion: 142 Resp: 11279

Ion Ratio Lower Upper

142 100

127 56.1 54.1 81.1

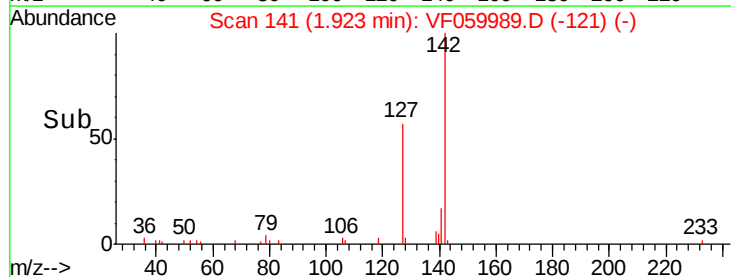
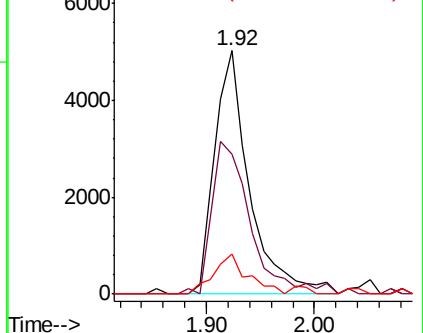
141 16.3 12.5 18.7

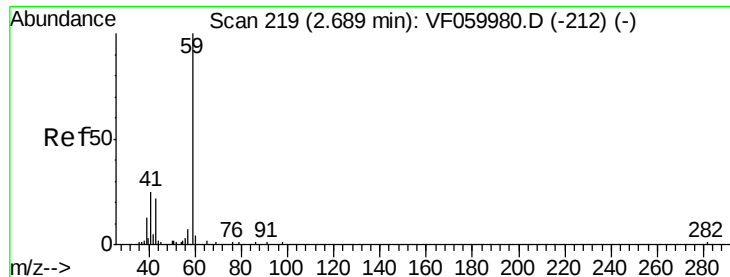


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

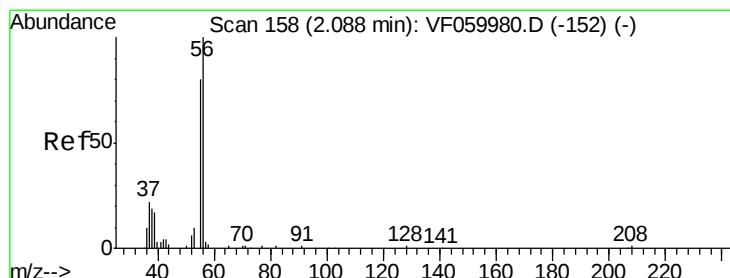
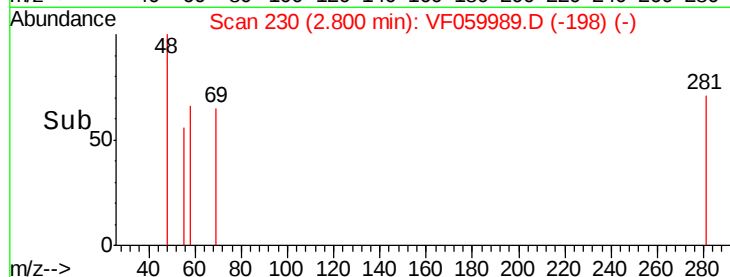
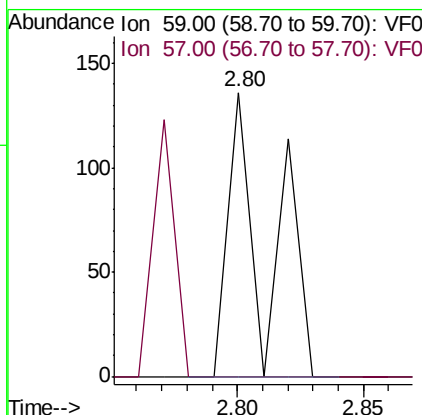
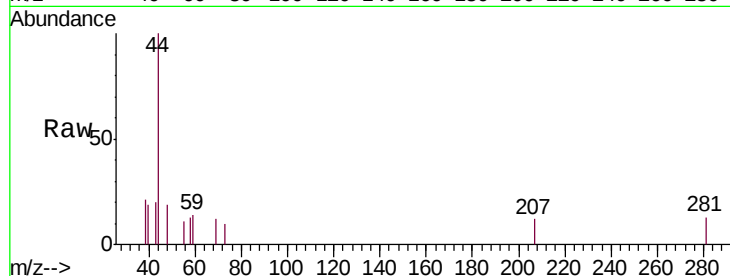




#11
Tert butyl alcohol
Concen: 1.128 ug/l
RT: 2.80 min Scan# 230
Delta R.T. 0.11 min
Lab File: VF059989.D
Acq: 17 Aug 2018 23:35

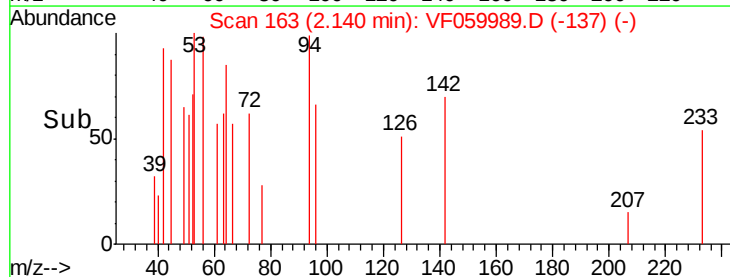
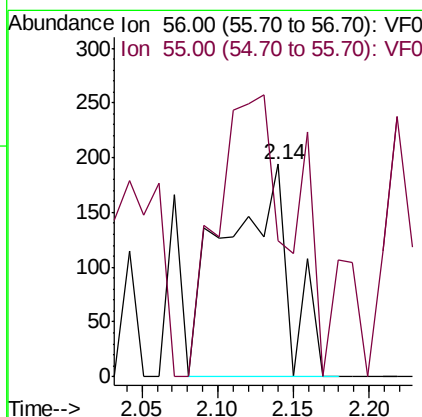
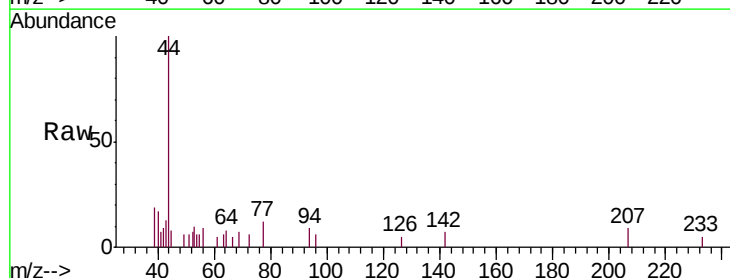
Instrument :
MSVOA_F
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RA-081318-FL-019

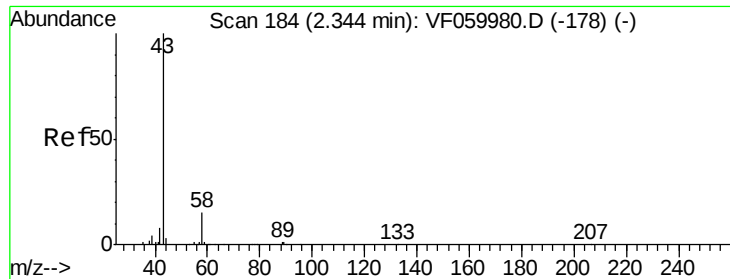
Tgt Ion: 59 Resp: 148
Ion Ratio Lower Upper
59 100
57 0.0 6.8 10.2#



#13
Acrolein
Concen: 20.765 ug/l
RT: 2.14 min Scan# 163
Delta R.T. 0.05 min
Lab File: VF059989.D
Acq: 17 Aug 2018 23:35

Tgt Ion: 56 Resp: 572
Ion Ratio Lower Upper
56 100
55 63.9 63.8 95.6





#16

Acetone

Concen: 36.060 ug/l

RT: 2.38 min Scan# 187

Delta R.T. 0.03 min

Lab File: VF059989.D

Acq: 17 Aug 2018 23:35

Instrument :

MSVOA_F

ClientSampleId :

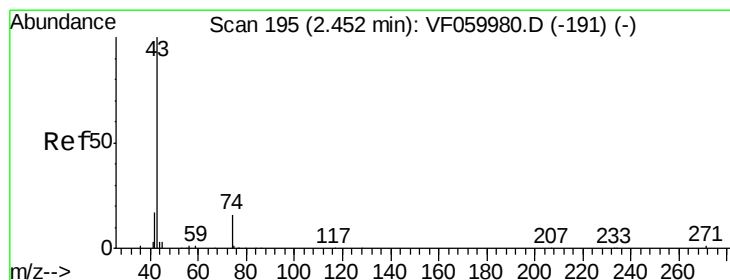
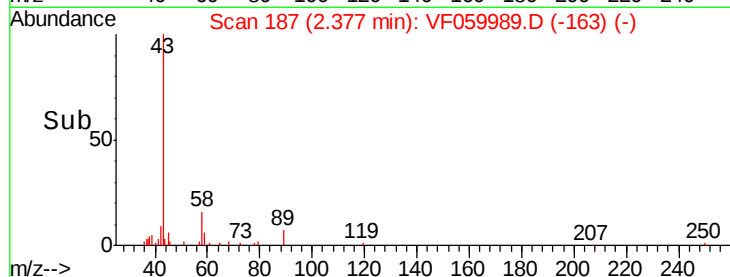
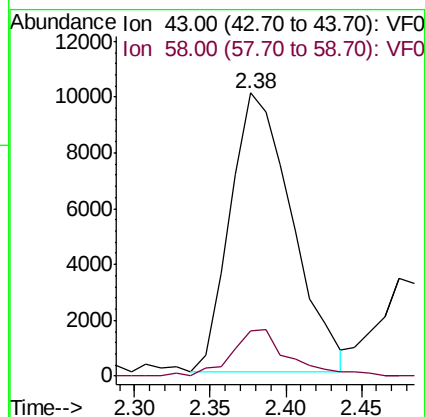
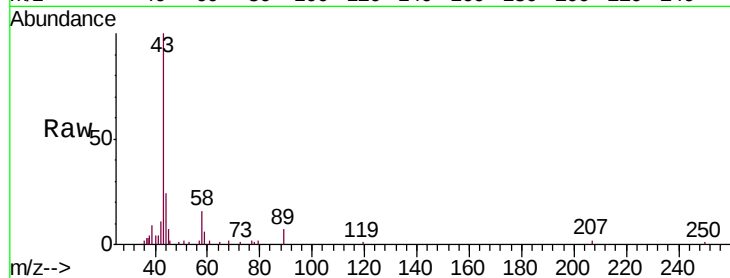
RA-081318-FL-019

Tgt Ion: 43 Resp: 28431

Ion Ratio Lower Upper

43 100

58 16.1 11.9 17.9



#18

Methyl Acetate

Concen: 5.316 ug/l

RT: 2.48 min Scan# 197

Delta R.T. 0.02 min

Lab File: VF059989.D

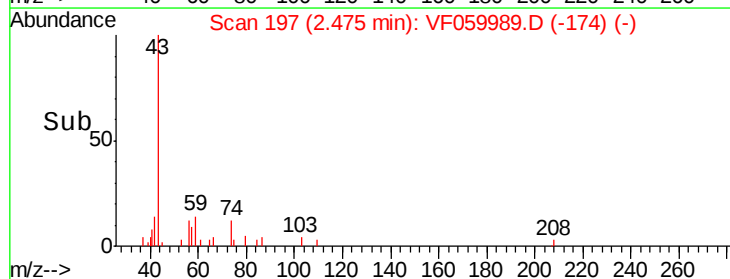
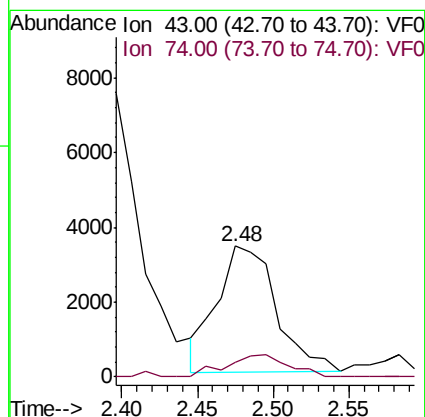
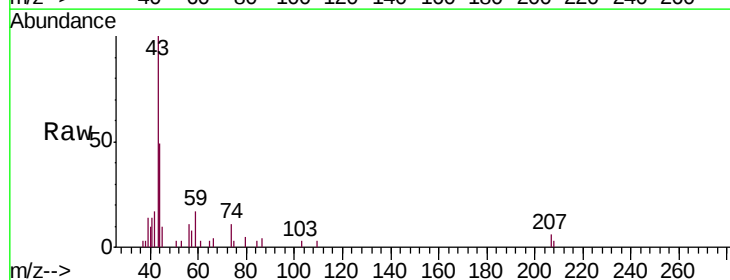
Acq: 17 Aug 2018 23:35

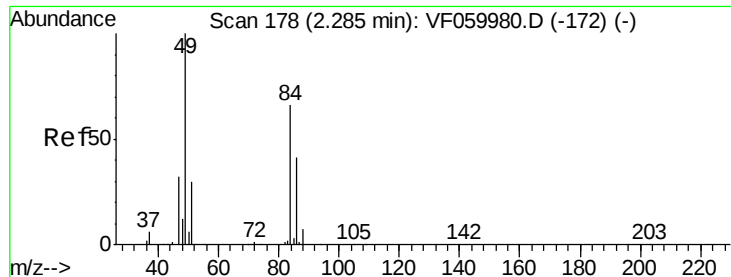
Tgt Ion: 43 Resp: 9196

Ion Ratio Lower Upper

43 100

74 11.3 12.3 18.5#

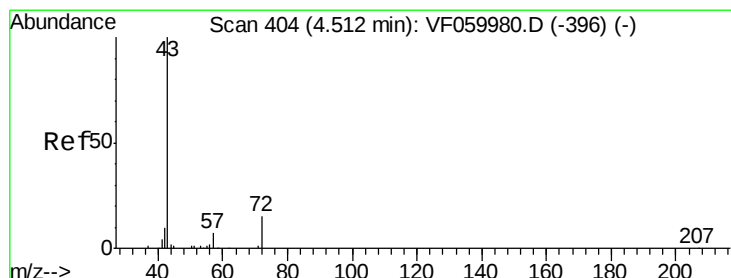
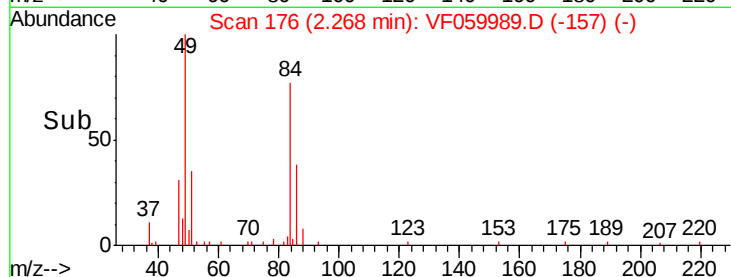
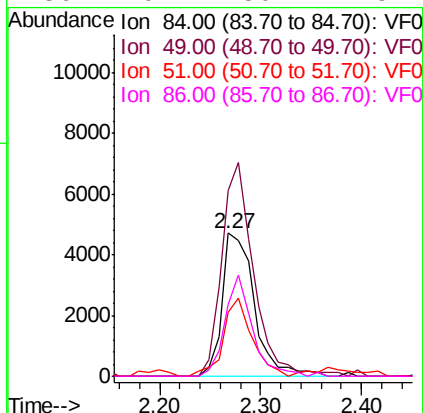
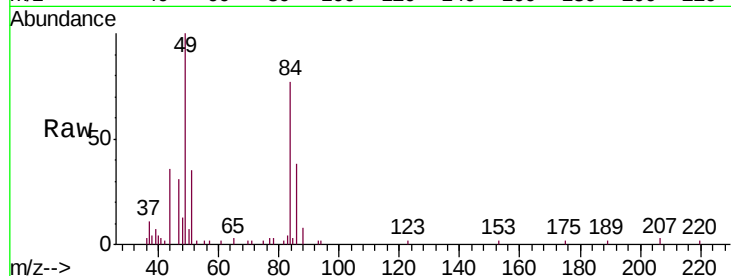




#20
Methylene Chloride
Concen: 4.719 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.02 min
Lab File: VF059989.D
Acq: 17 Aug 2018 23:35

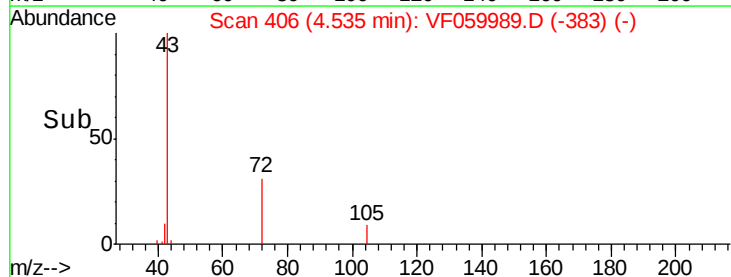
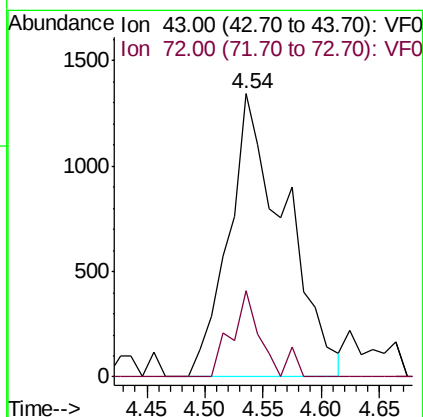
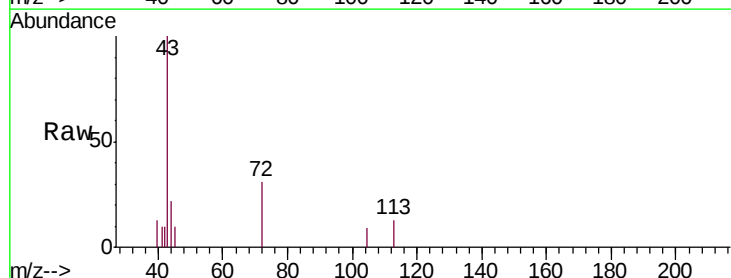
Instrument :
MSVOA_F
ClientSampleId :
RA-081318-FL-019

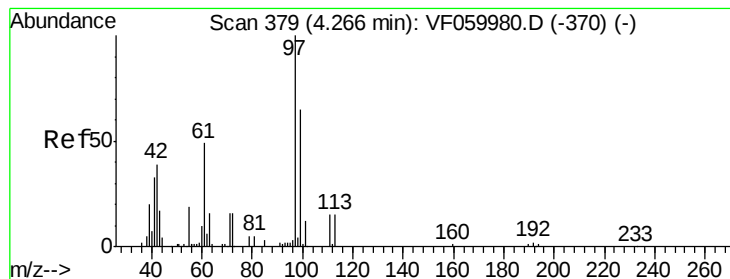
Tgt Ion: 84 Resp: 10487
Ion Ratio Lower Upper
84 100
49 129.8 122.5 183.7
51 45.0 37.1 55.7
86 49.7 50.2 75.2#



#25
2-Butanone
Concen: 8.301 ug/l
RT: 4.54 min Scan# 406
Delta R.T. 0.02 min
Lab File: VF059989.D
Acq: 17 Aug 2018 23:35

Tgt Ion: 43 Resp: 4518
Ion Ratio Lower Upper
43 100
72 30.7 12.5 18.7#





#29

Tetrahydrofuran

Concen: 2.605 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF059989.D

Acq: 17 Aug 2018 23:35

Instrument :

MSVOA_F

ClientSampleId :

RA-081318-FL-019

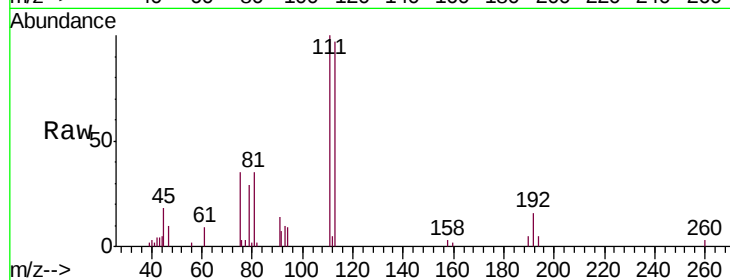
Tgt Ion: 42 Resp: 506

Ion Ratio Lower Upper

42 100

72 0.0 29.8 44.6#

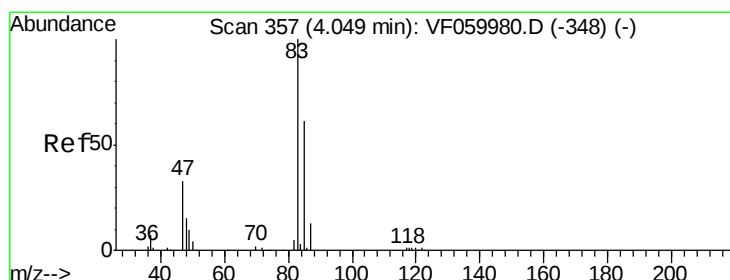
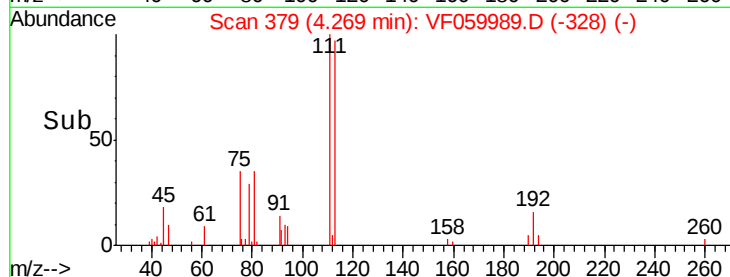
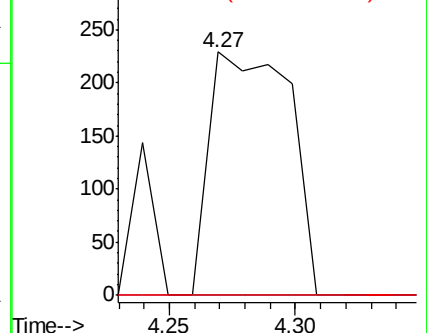
71 0.0 29.0 43.4#



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



#30

Chloroform

Concen: 1.850 ug/l

RT: 4.04 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF059989.D

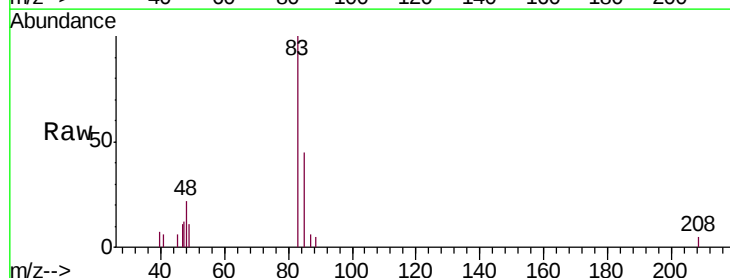
Acq: 17 Aug 2018 23:35

Tgt Ion: 83 Resp: 5582

Ion Ratio Lower Upper

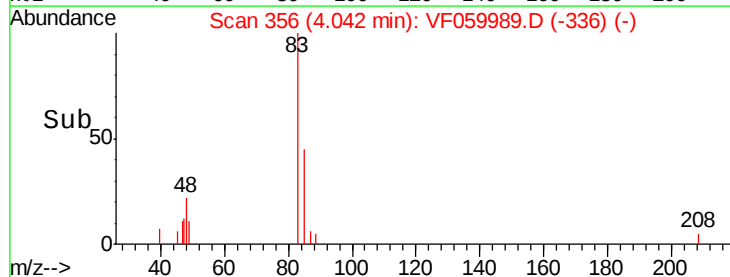
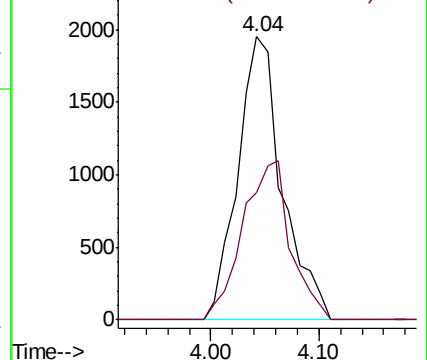
83 100

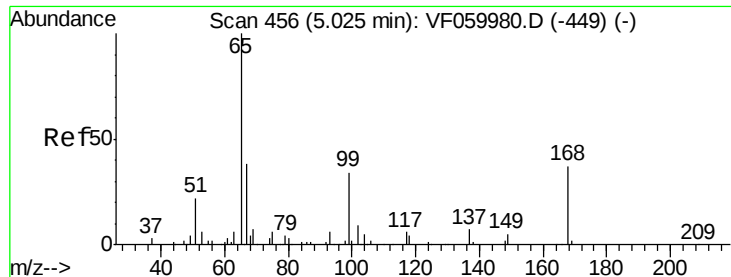
85 45.1 48.8 73.2#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 42.408 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059989.D

Acq: 17 Aug 2018 23:35

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ClientSampleId :

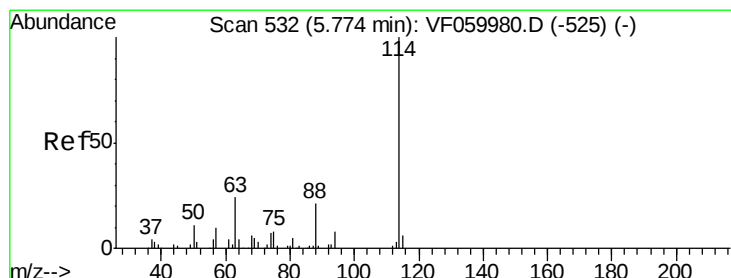
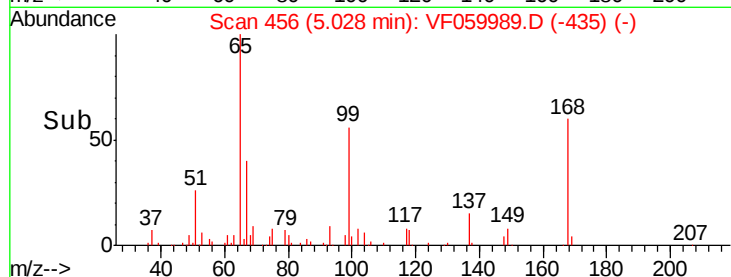
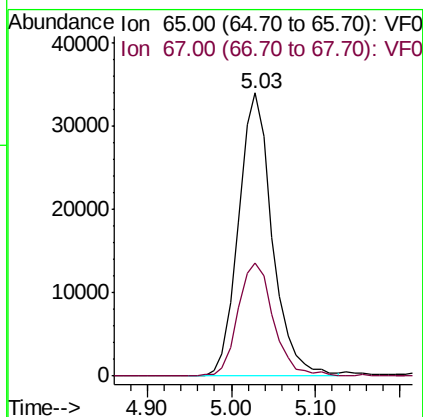
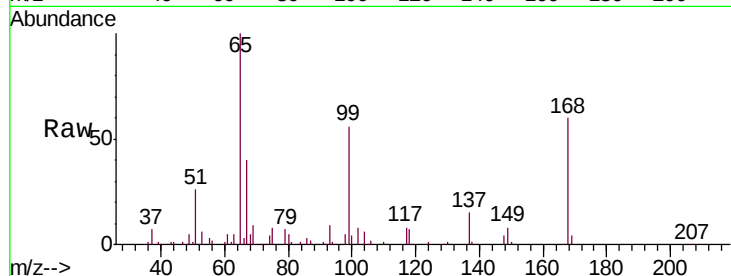
RA-081318-FL-019

Tgt Ion: 65 Resp: 95482

Ion Ratio Lower Upper

65 100

67 40.0 0.0 82.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.01 min

Lab File: VF059989.D

Acq: 17 Aug 2018 23:35

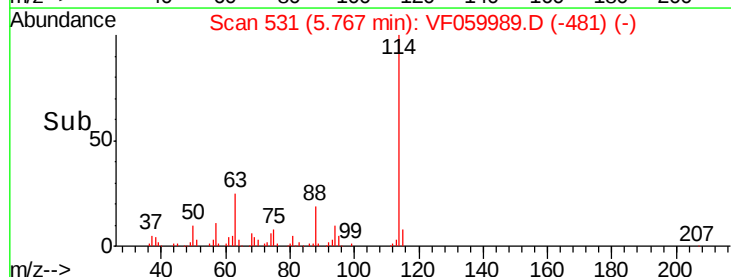
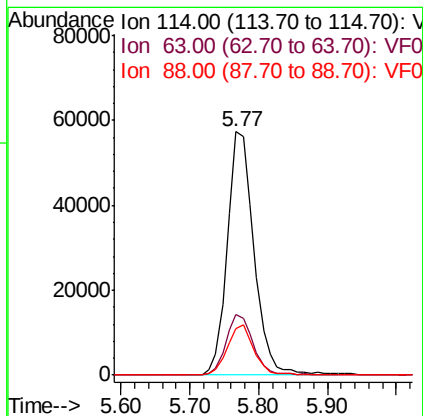
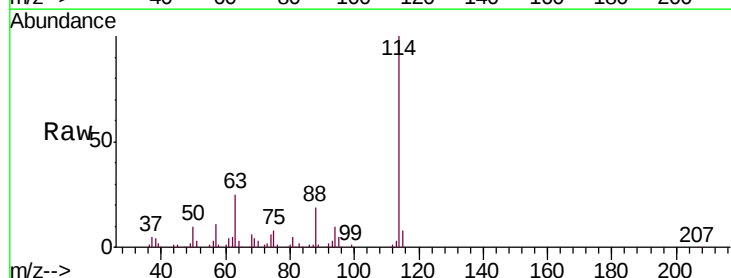
Tgt Ion: 114 Resp: 154329

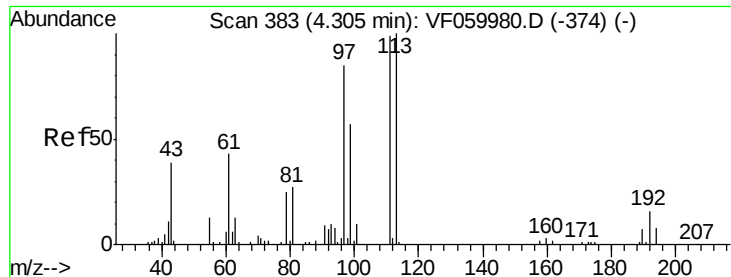
Ion Ratio Lower Upper

114 100

63 25.1 0.0 48.6

88 19.3 0.0 42.8

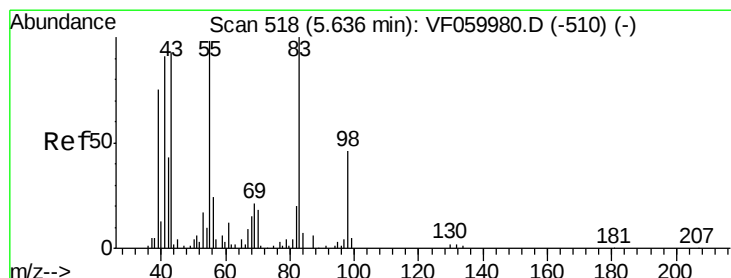
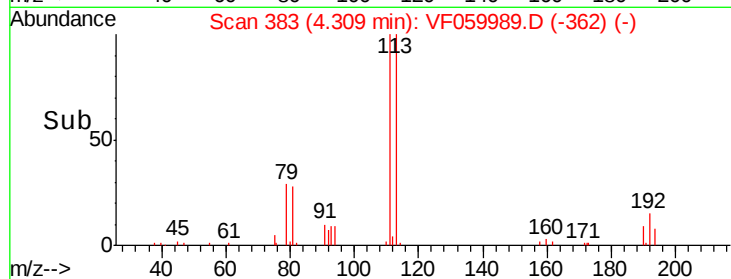
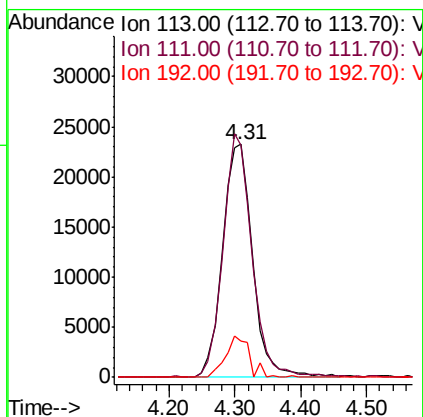
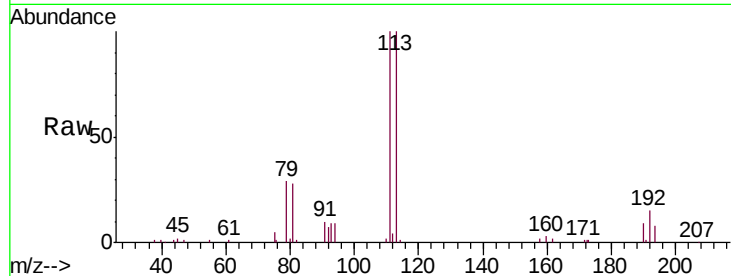




#35
 Dibromofluoromethane
 Concen: 47.135 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VF059989.D
 Acq: 17 Aug 2018 23:35

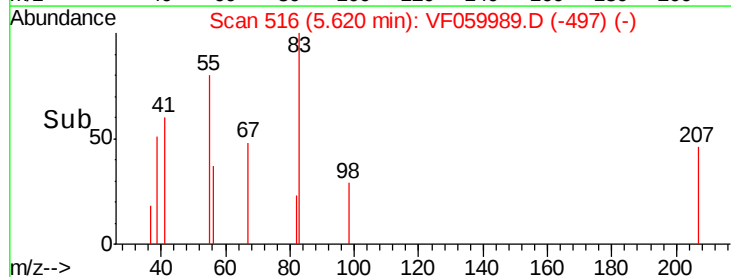
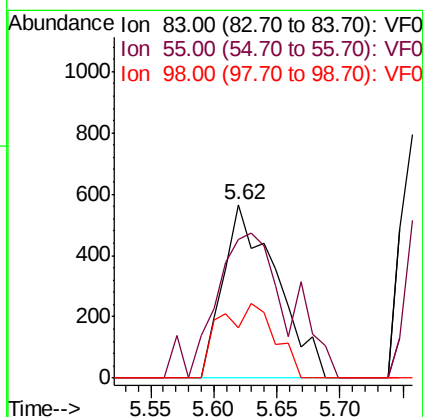
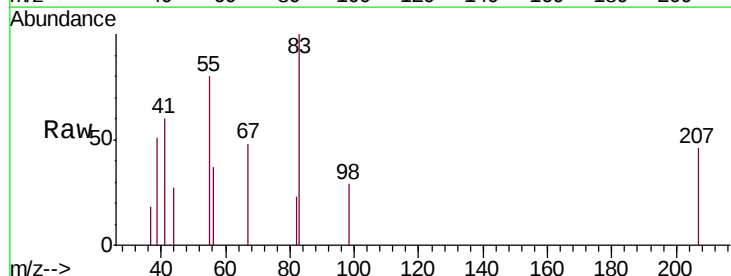
Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081318-FL-019

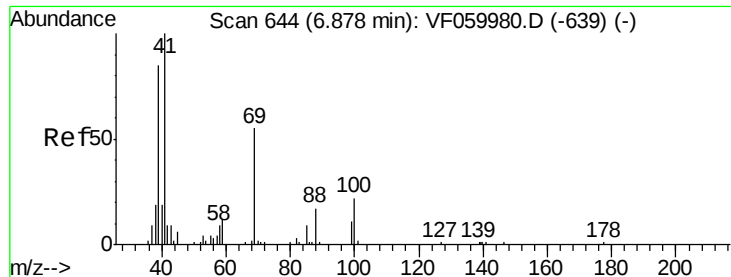
Tgt Ion: 113 Resp: 74345
 Ion Ratio Lower Upper
 113 100
 111 99.6 79.5 119.3
 192 15.5 12.4 18.6



#39
 Methylcyclohexane
 Concen: 1.262 ug/l
 RT: 5.62 min Scan# 516
 Delta R.T. -0.02 min
 Lab File: VF059989.D
 Acq: 17 Aug 2018 23:35

Tgt Ion: 83 Resp: 1664
 Ion Ratio Lower Upper
 83 100
 55 80.0 78.8 118.2
 98 28.8 36.8 55.2#

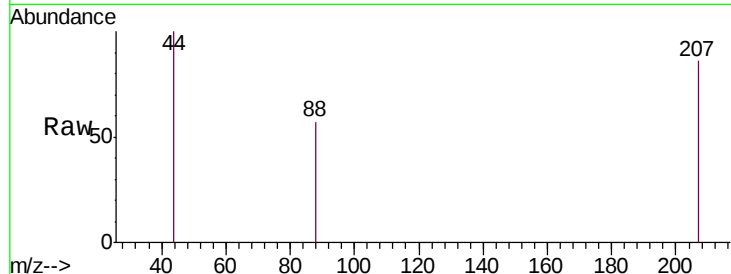




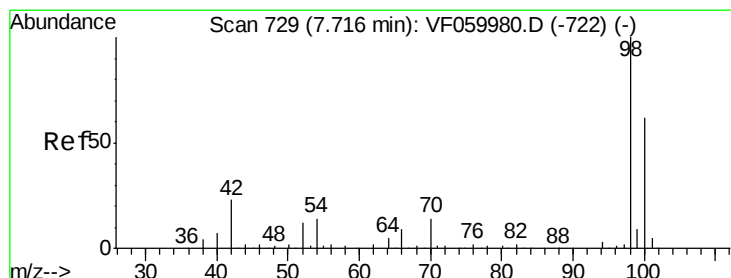
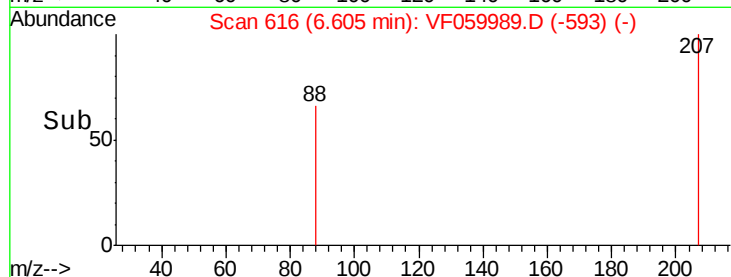
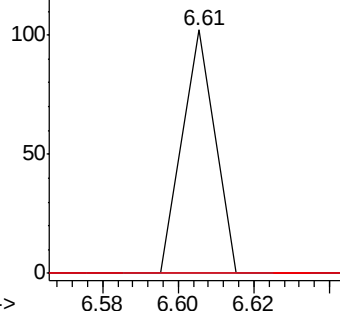
#49
1,4-Dioxane
Concen: 65.483 ug/l
RT: 6.61 min Scan# 616
Delta R.T. -0.27 min
Lab File: VF059989.D
Acq: 17 Aug 2018 23:35

Instrument :
MSVOA_F
ClientSampleId :
RA-081318-FL-019

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 43.2 64.8#
58 0.0 42.0 63.0#

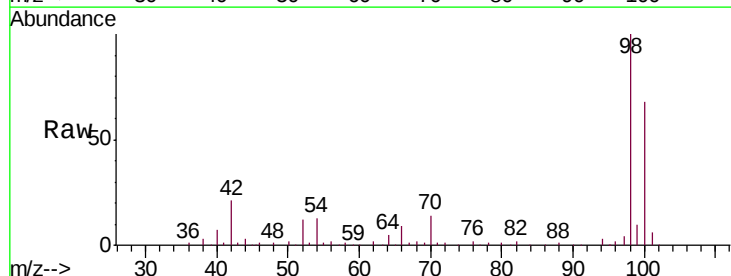


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

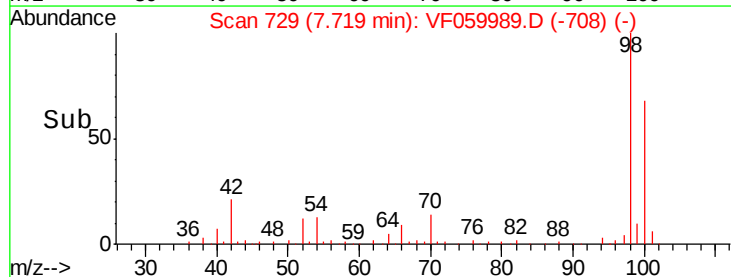
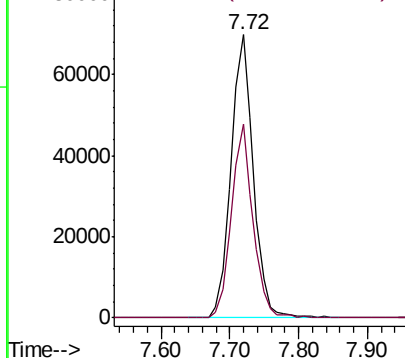


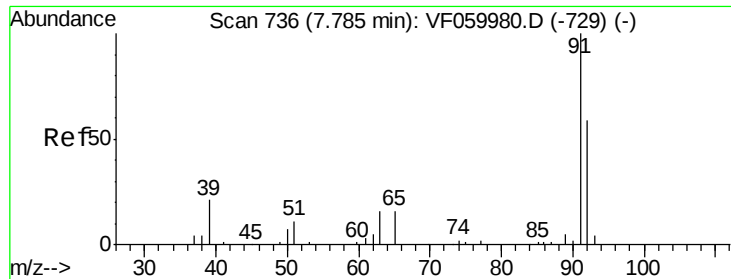
#50
Toluene-d8
Concen: 44.613 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF059989.D
Acq: 17 Aug 2018 23:35

Tgt Ion: 98 Resp: 156481
Ion Ratio Lower Upper
98 100
100 68.3 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

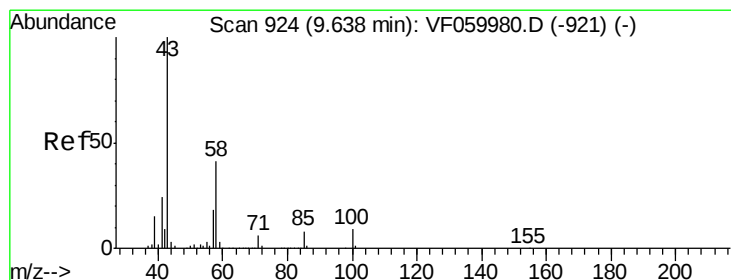
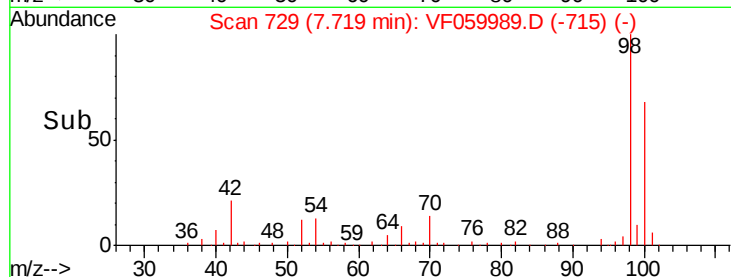
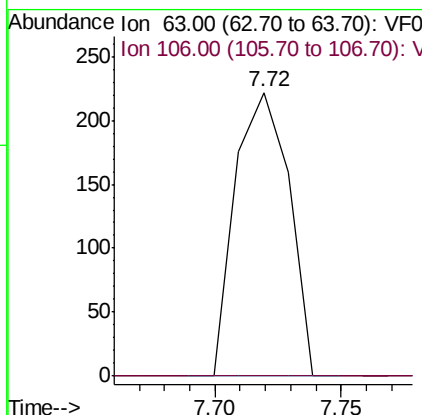
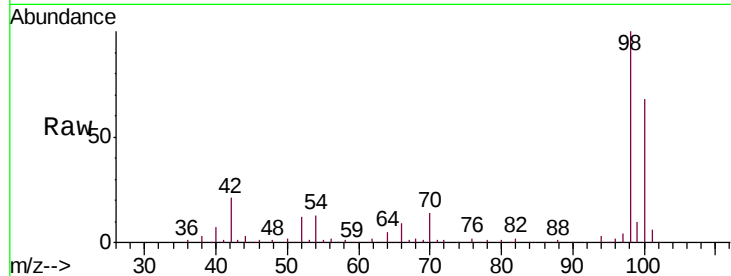




#58
 2-Chloroethyl Vinyl ether
 Concen: 3.802 ug/l
 RT: 7.72 min Scan# 729
 Delta R.T. -0.07 min
 Lab File: VF059989.D
 Acq: 17 Aug 2018 23:35

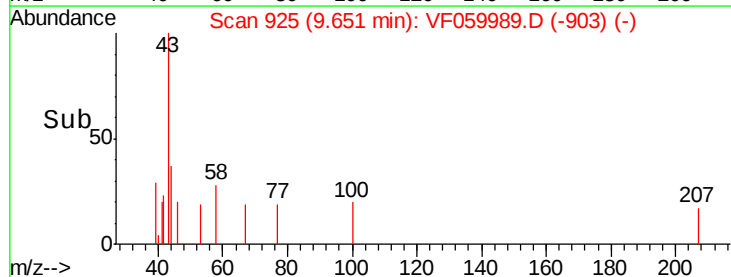
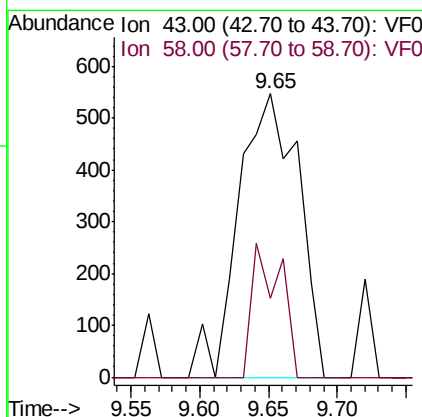
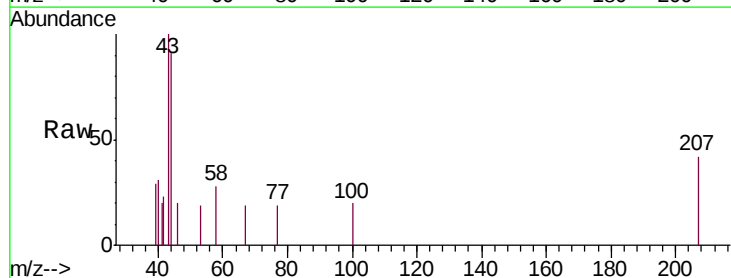
Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081318-FL-019

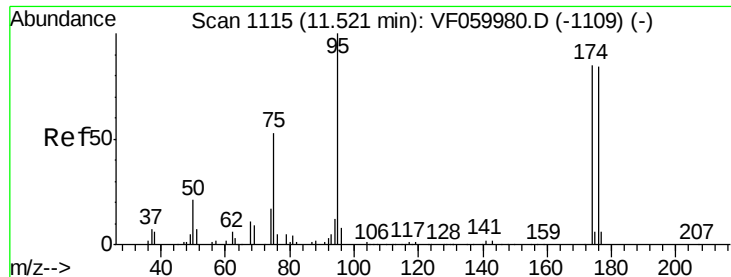
Tgt Ion: 63 Resp: 330
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 2.005 ug/l
 RT: 9.65 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: VF059989.D
 Acq: 17 Aug 2018 23:35

Tgt Ion: 43 Resp: 1654
 Ion Ratio Lower Upper
 43 100
 58 28.0 20.1 60.3

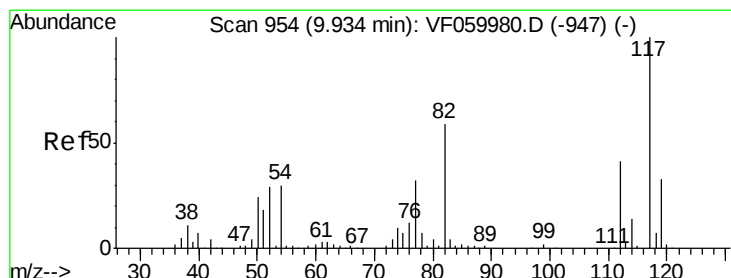
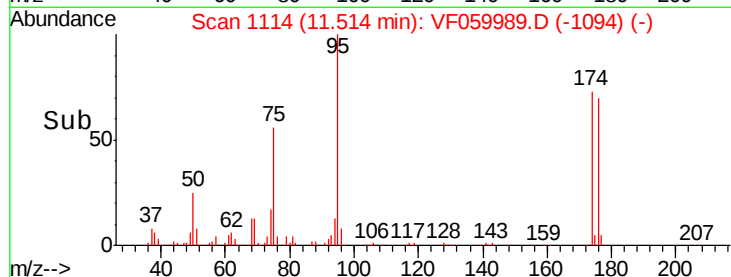
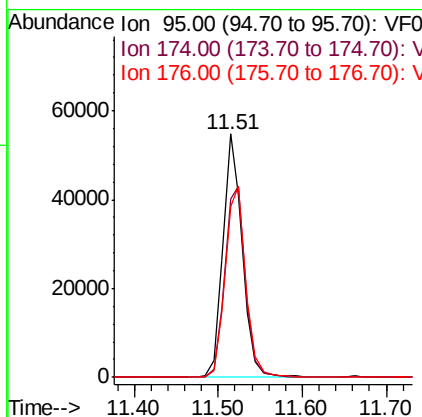
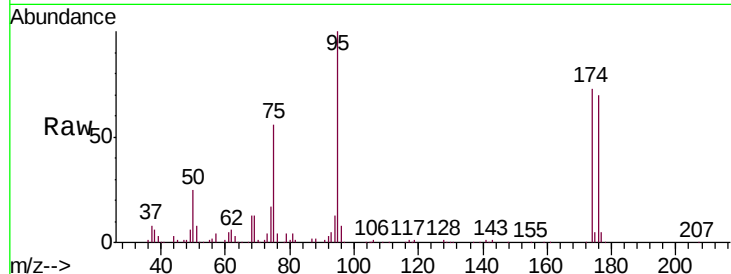




#62
4-Bromofluorobenzene
Concen: 40.706 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VF059989.D
Acq: 17 Aug 2018 23:35

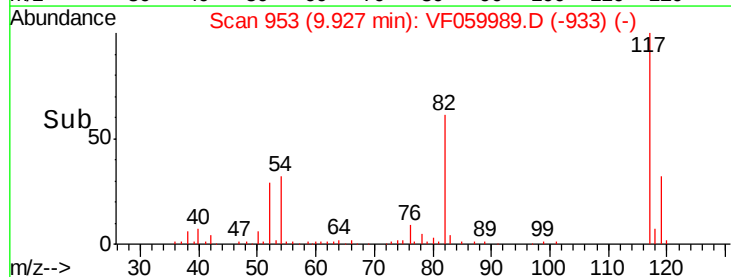
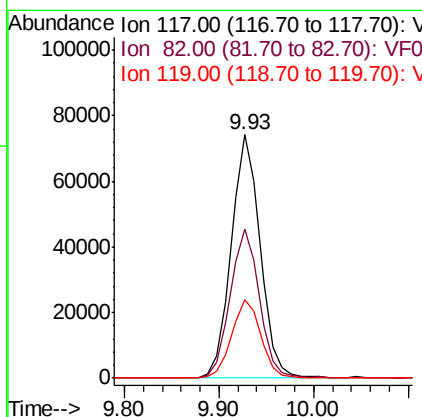
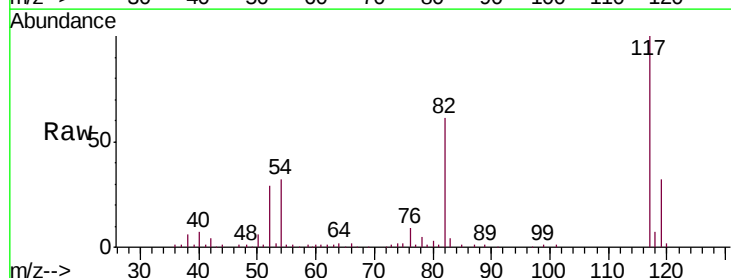
Instrument :
MSVOA_F
ClientSampleId :
RA-081318-FL-019

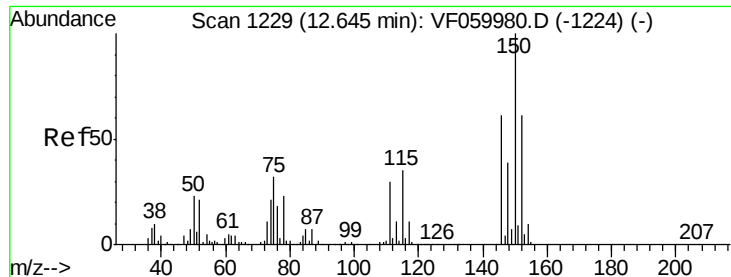
Tgt Ion: 95 Resp: 87618
Ion Ratio Lower Upper
95 100
174 73.4 0.0 169.8
176 69.9 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. -0.01 min
Lab File: VF059989.D
Acq: 17 Aug 2018 23:35

Tgt Ion: 117 Resp: 157366
Ion Ratio Lower Upper
117 100
82 61.4 47.2 70.8
119 32.3 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VF059989.D

Acq: 17 Aug 2018 23:35

Instrument :

MSVOA_F

ClientSampleId :

RA-081318-FL-019

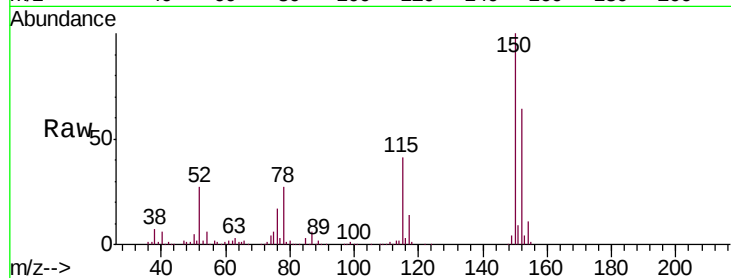
Tgt Ion:152 Resp: 95939

Ion Ratio Lower Upper

152 100

115 63.7 29.1 87.3

150 156.7 0.0 330.2



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

