

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF070318\
 Data File : VF059418.D
 Acq On : 3 Jul 2018 18:02
 Operator : VA/AP
 Sample : J3245-23RE
 Misc : 6.10g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-062918-DRE

Quant Time: Jul 04 00:13:06 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

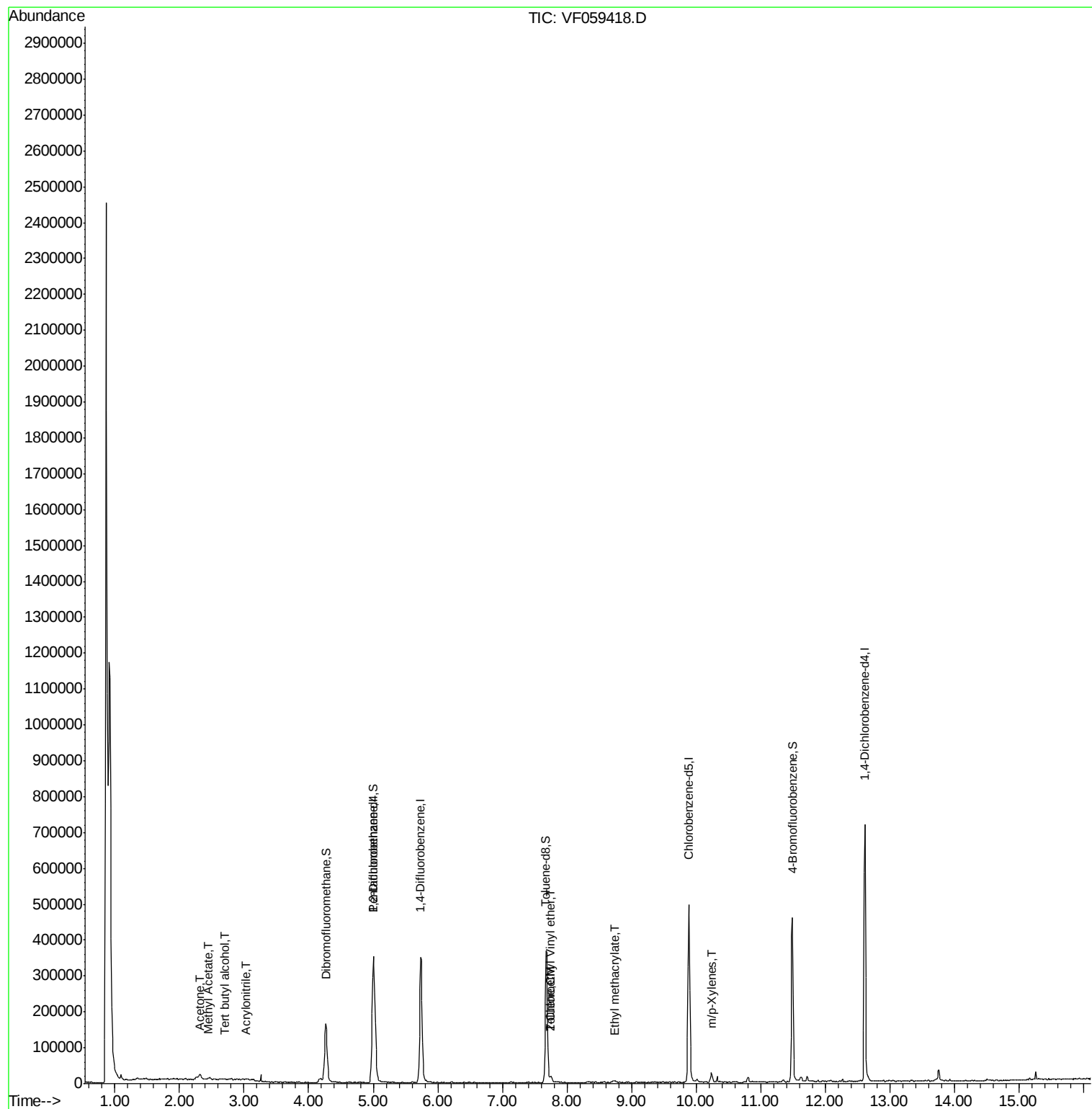
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	229405	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.73	114	361951	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.88	117	343725	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	176499	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	166955	56.33	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	112.66%	
35) Dibromofluoromethane	4.27	113	142916	54.04	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	108.08%	
50) Toluene-d8	7.68	98	304967	46.57	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	93.14%	
62) 4-Bromofluorobenzene	11.49	95	161696	43.78	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	87.56%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.22	94	258	Below Cal		93
11) Tert butyl alcohol	2.70	59	761	3.857 ug/l #		1
13) Acrolein	2.07	56	340	Below Cal		98
15) Acrylonitrile	3.02	53	512	1.474 ug/l #		30
16) Acetone	2.32	43	16376	12.431 ug/l		98
18) Methyl Acetate	2.43	43	4525	2.272 ug/l #		61
20) Methylene Chloride	2.26	84	2990	Below Cal		93
25) 2-Butanone	4.46	43	270	Below Cal #		59
28) Bromochloromethane	3.87	49	85	Below Cal #		6
29) Tetrahydrofuran	4.25	42	1106	Below Cal #		79
37) Ethyl Acetate	4.26	43	432	Below Cal #		26
49) 1,4-Dioxane	6.90	88	150	Below Cal #		20
52) Toluene	7.75	92	7480	1.426 ug/l		87
56) Ethyl methacrylate	8.75	69	2615	1.036 ug/l #		77
58) 2-Chloroethyl Vinyl ether	7.74	63	1751	9.253 ug/l		100
59) 2-Hexanone	9.59	43	529	Below Cal #		30
68) m/p-Xylenes	10.24	106	7837	2.038 ug/l		97
87) 1,3-Dichlorobenzene	12.55	146	357	Below Cal #		58

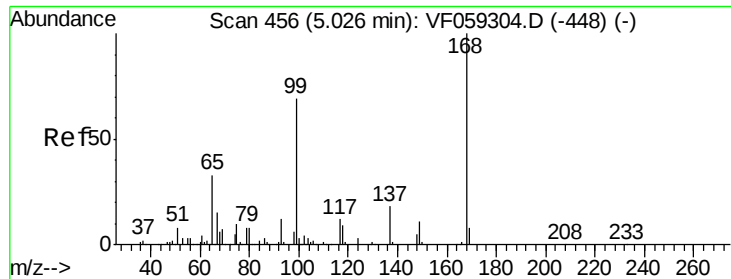
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

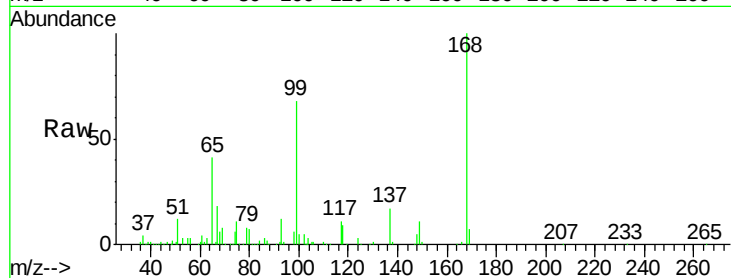
CL-01-062918-DRE

Tgt Ion:168 Resp: 229405

Ion Ratio Lower Upper

168 100

99 68.4 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.01

80000

60000

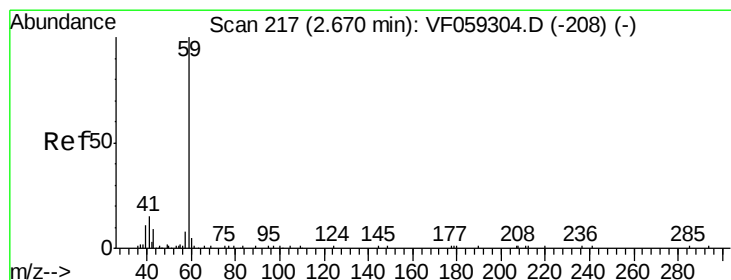
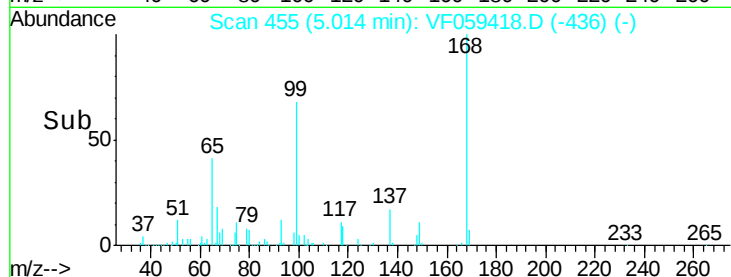
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 3.857 ug/l

RT: 2.70 min Scan# 220

Delta R.T. 0.03 min

Lab File: VF059418.D

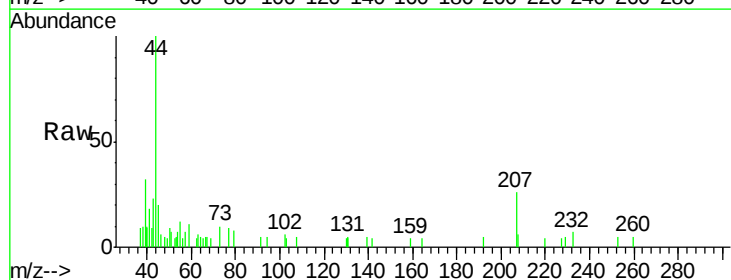
Acq: 3 Jul 2018 18:02

Tgt Ion: 59 Resp: 761

Ion Ratio Lower Upper

59 100

57 70.5 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.70

300

250

200

150

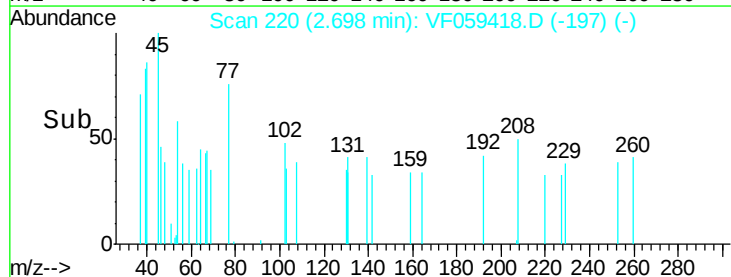
100

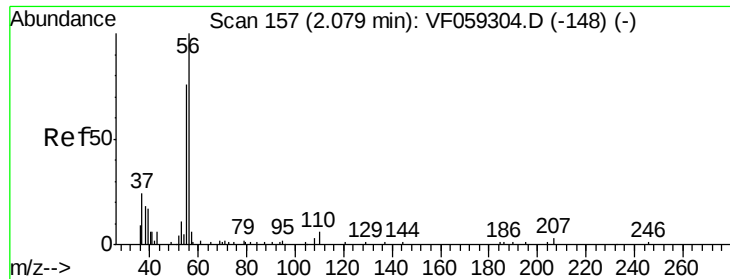
50

0

Time-->

2.60 2.65 2.70





#13

Acrolein

Concen: Below Cal

RT: 2.07 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

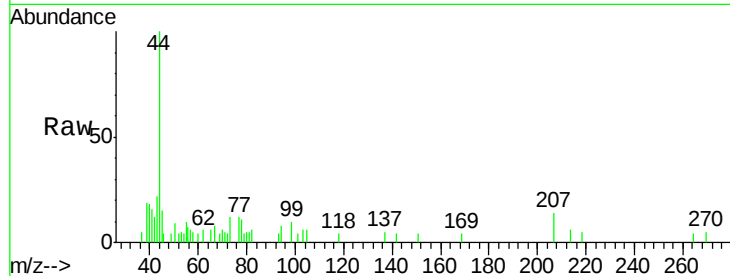
CL-01-062918-DRE

Tgt Ion: 56 Resp: 340

Ion Ratio Lower Upper

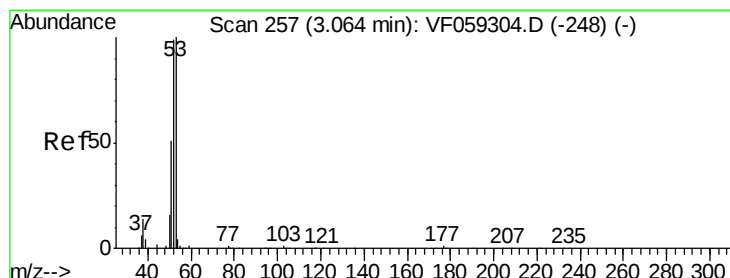
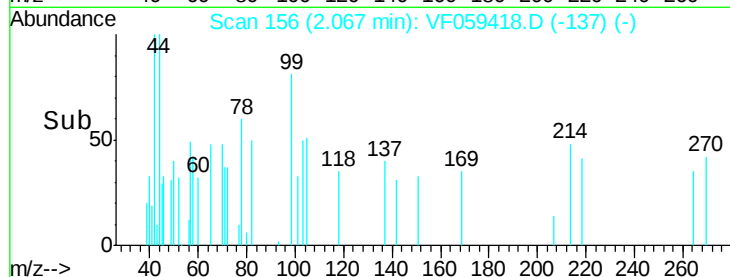
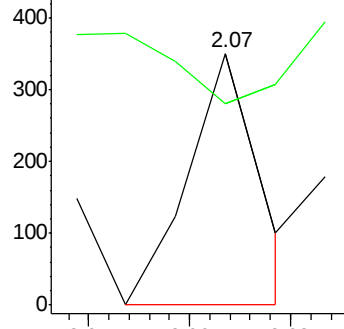
56 100

55 80.0 62.4 93.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.474 ug/l

RT: 3.02 min Scan# 253

Delta R.T. -0.04 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

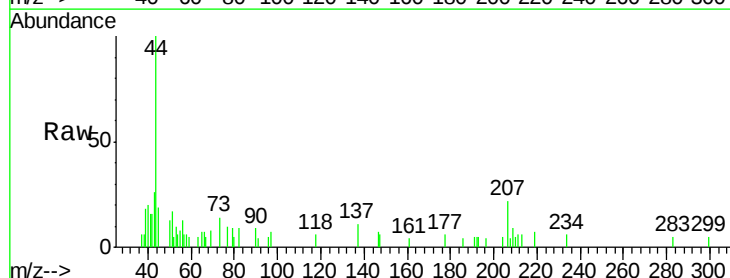
Tgt Ion: 53 Resp: 512

Ion Ratio Lower Upper

53 100

52 33.5 79.2 118.8#

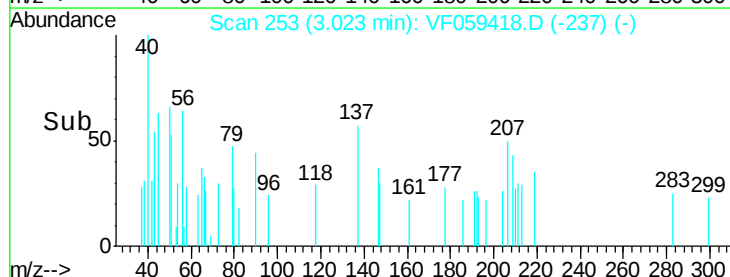
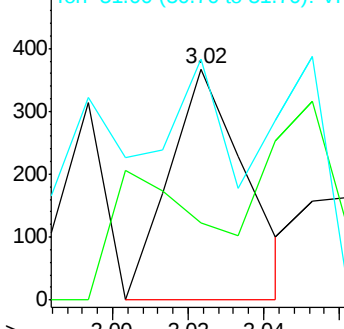
51 104.6 40.9 61.3#

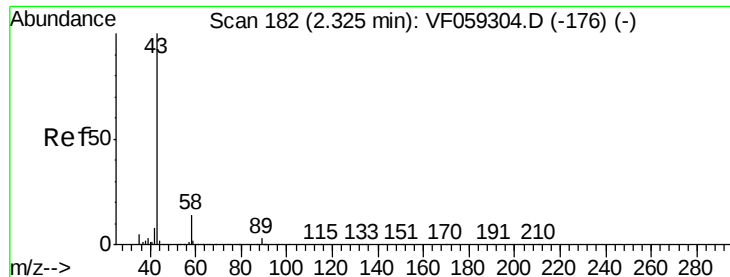


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

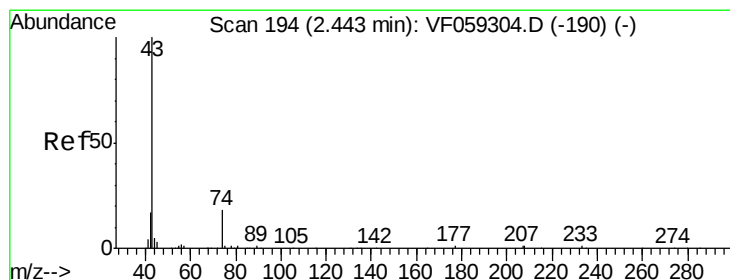
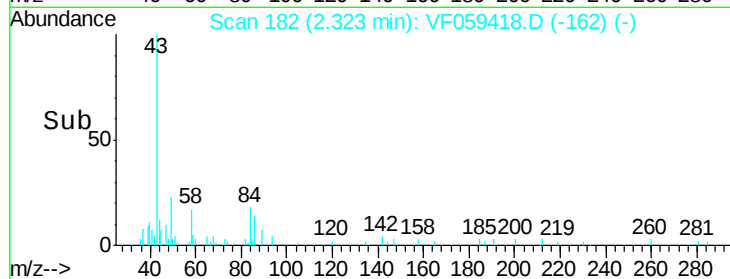
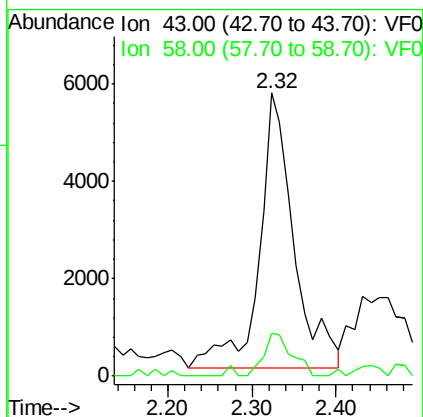
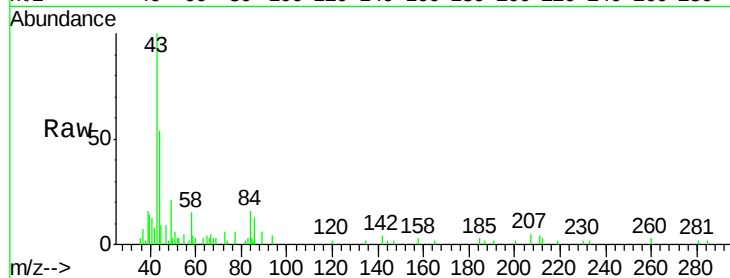




#16
Acetone
Concen: 12.431 ug/l
RT: 2.32 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF059418.D
Acq: 3 Jul 2018 18:02

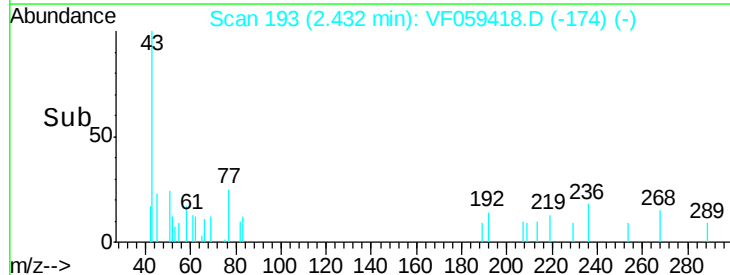
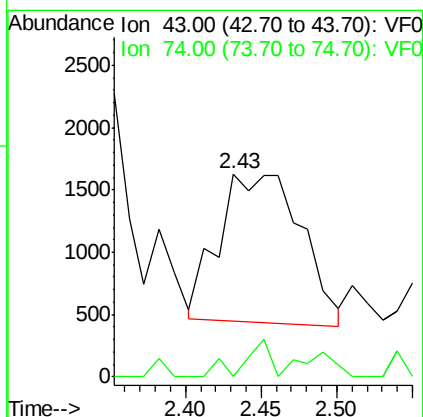
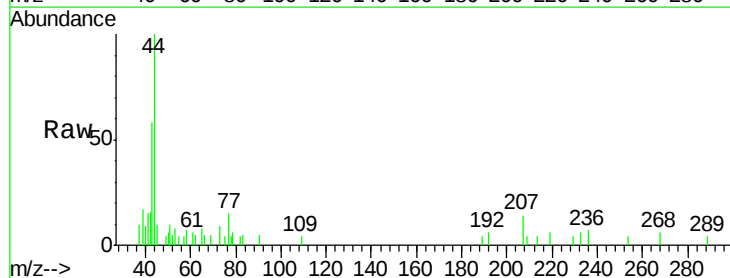
Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-DRE

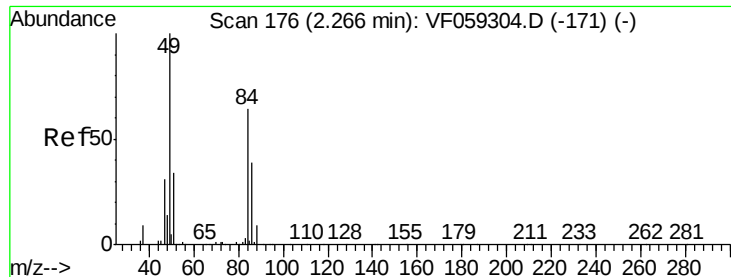
Tgt Ion: 43 Resp: 16376
Ion Ratio Lower Upper
43 100
58 15.1 11.4 17.0



#18
Methyl Acetate
Concen: 2.272 ug/l
RT: 2.43 min Scan# 193
Delta R.T. -0.01 min
Lab File: VF059418.D
Acq: 3 Jul 2018 18:02

Tgt Ion: 43 Resp: 4525
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.26 min Scan# 176

Delta R.T. -0.00 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

CL-01-062918-DRE

Tgt Ion: 84 Resp: 2990

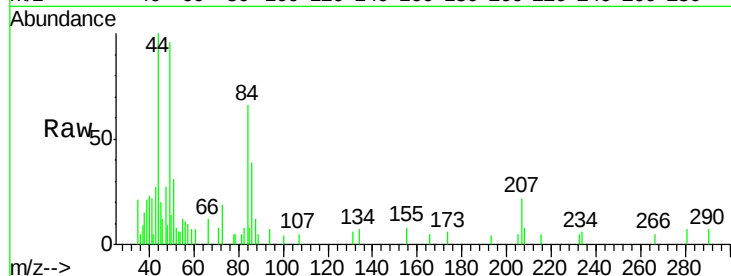
Ion Ratio Lower Upper

84 100

49 145.8 126.5 189.7

51 47.6 42.9 64.3

86 59.7 48.6 73.0

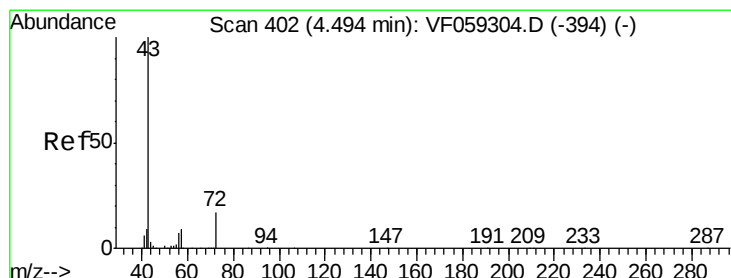
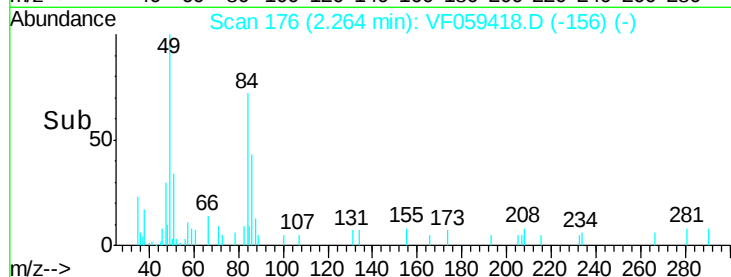
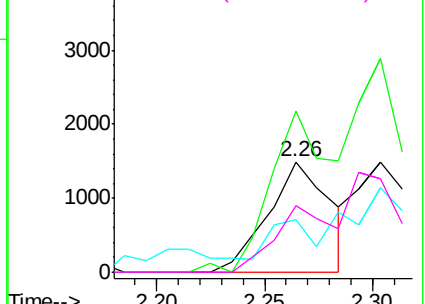


Abundance Ion 84.00 (83.70 to 84.70): VF0

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: VF059418.D

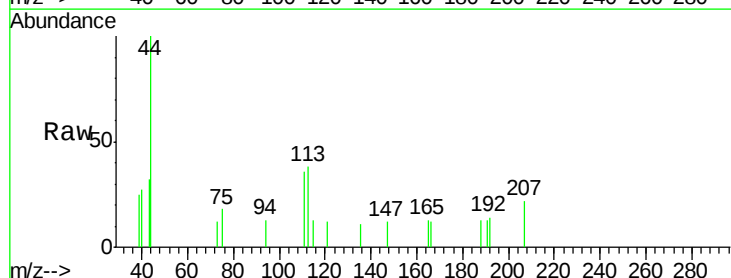
Acq: 3 Jul 2018 18:02

Tgt Ion: 43 Resp: 270

Ion Ratio Lower Upper

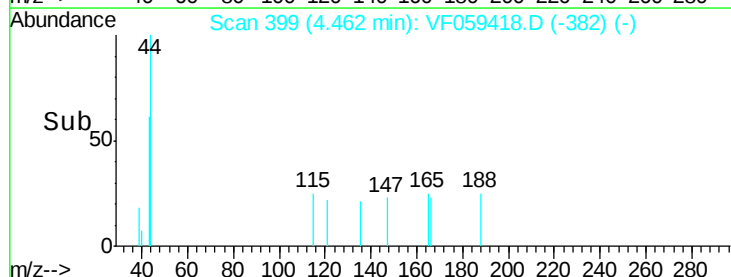
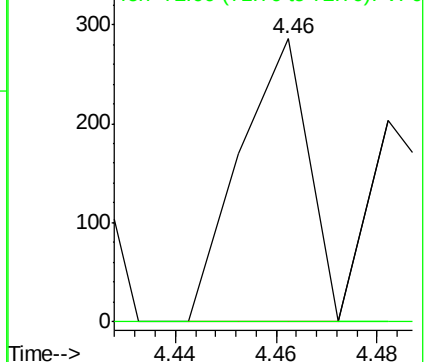
43 100

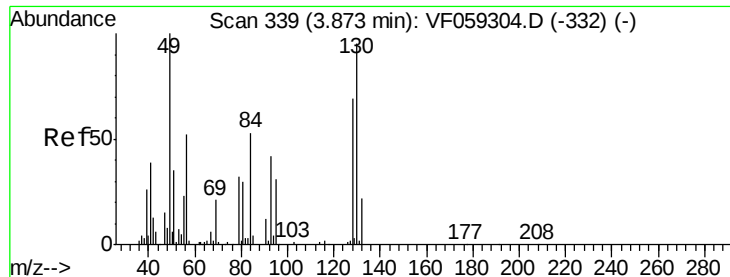
72 0.0 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#28

Bromochloromethane

Concen: Below Cal

RT: 3.87 min Scan# 339

Delta R.T. -0.00 min

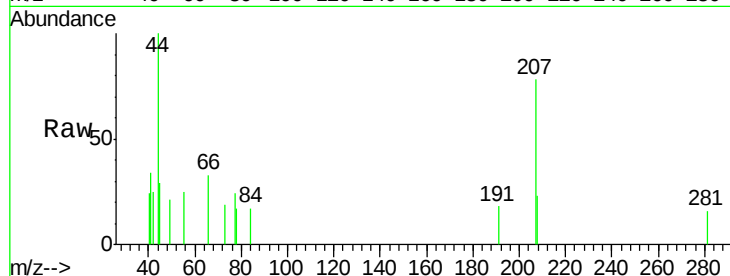
Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-DRE

Tgt Ion: 49 Resp: 85

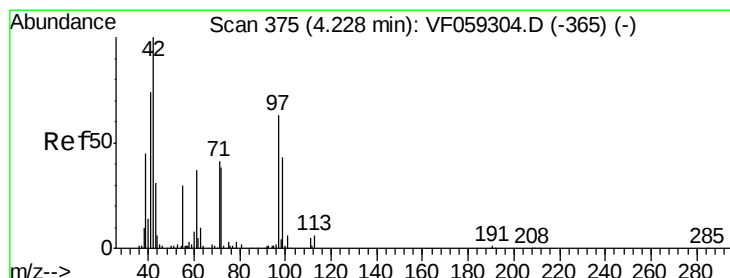
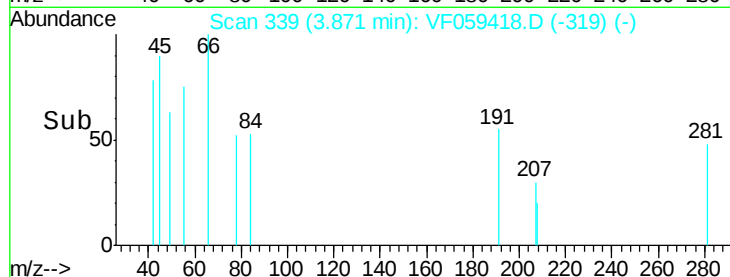
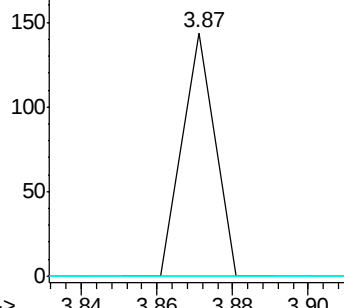
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	6.4
130	0.0	75.1	112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 377

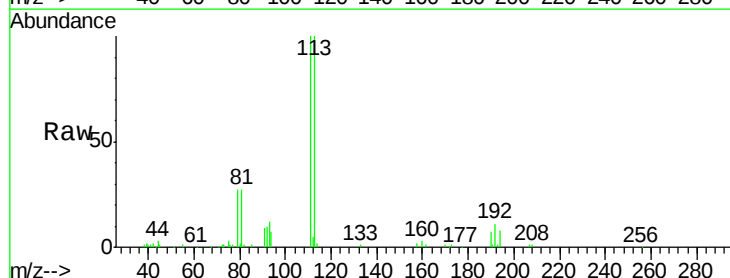
Delta R.T. 0.02 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Tgt Ion: 42 Resp: 1106

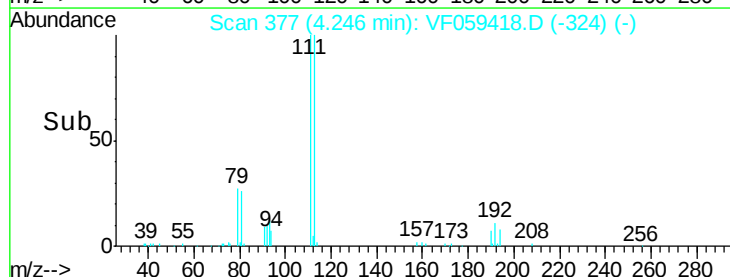
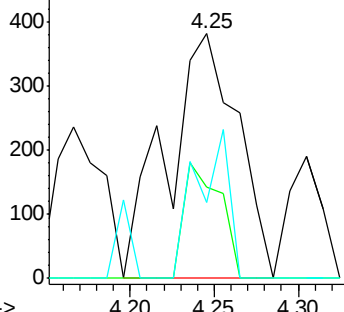
Ion	Ratio	Lower	Upper
42	100		
72	24.2	30.5	45.7#
71	28.3	32.5	48.7#

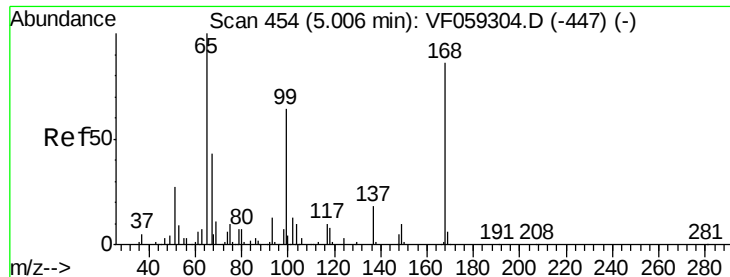


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 56.330 ug/l

RT: 4.99 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

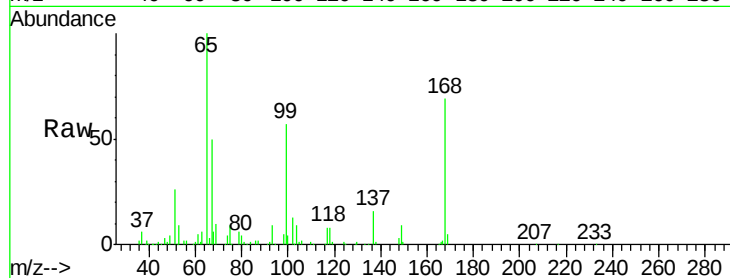
CL-01-062918-DRE

Tgt Ion: 65 Resp: 166955

Ion Ratio Lower Upper

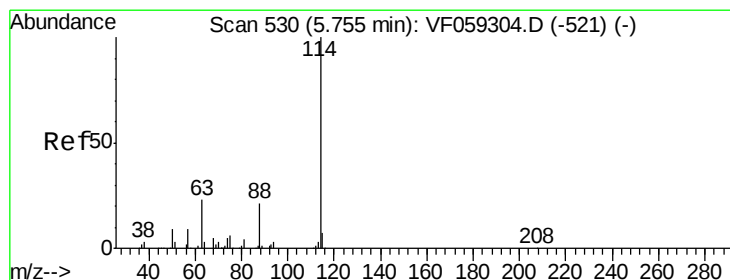
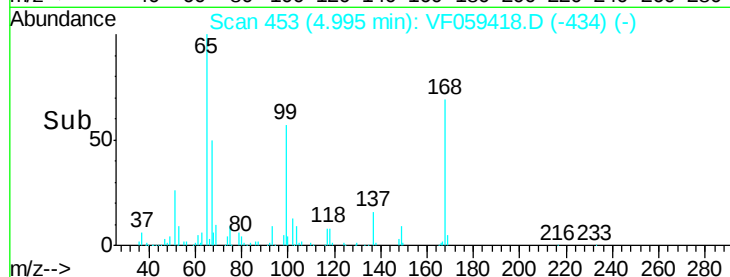
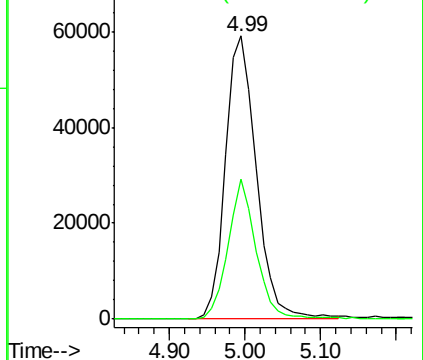
65 100

67 49.7 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: 5.73 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

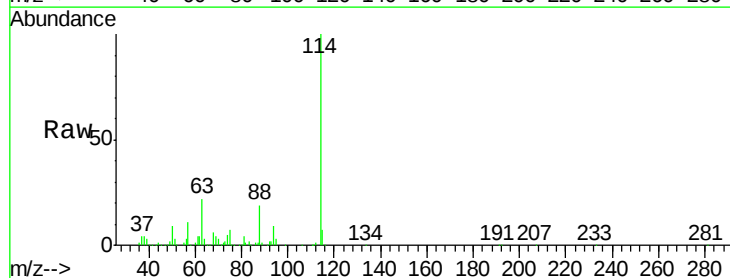
Tgt Ion: 114 Resp: 361951

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.8

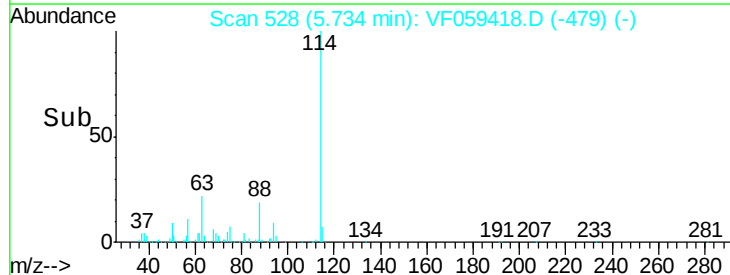
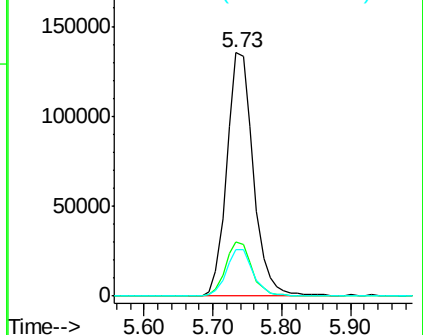
88 19.0 0.0 41.2

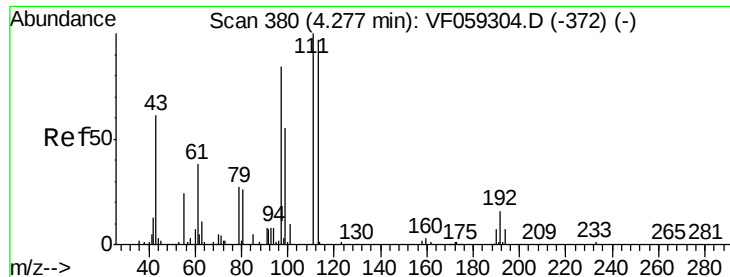


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

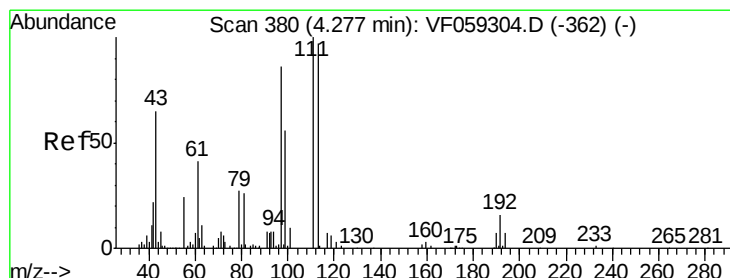
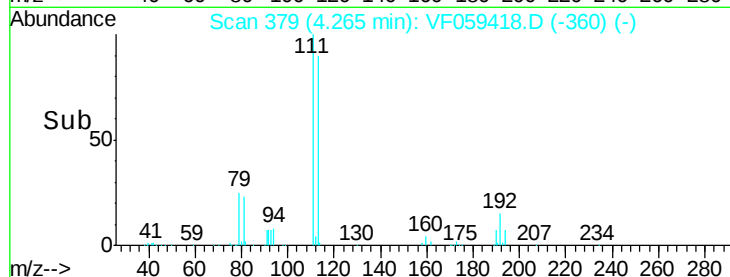
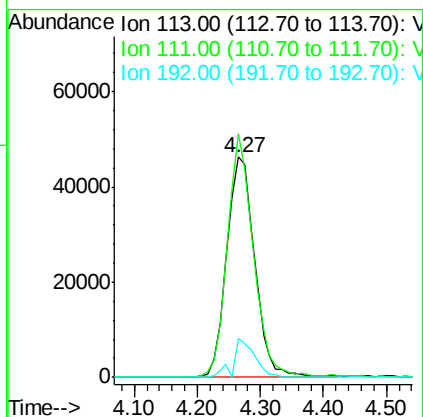
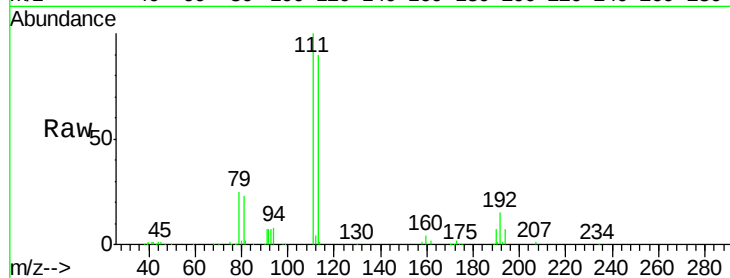




#35
Dibromofluoromethane
Concen: 54.039 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF059418.D
Acq: 3 Jul 2018 18:02

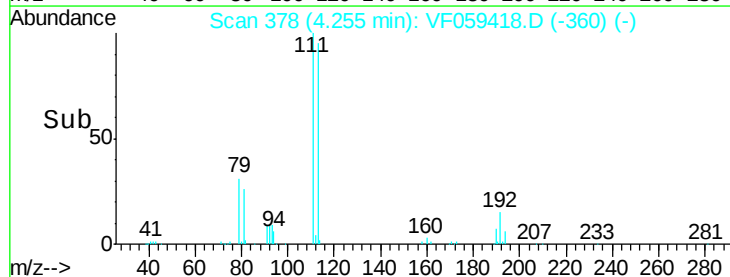
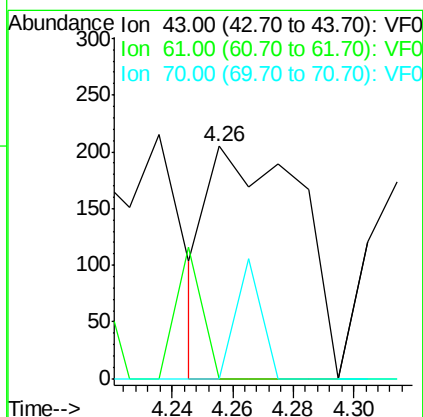
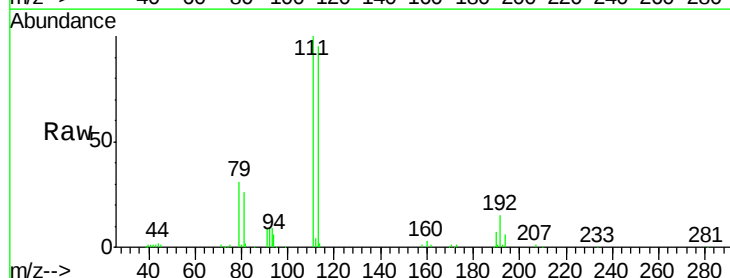
Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-DRE

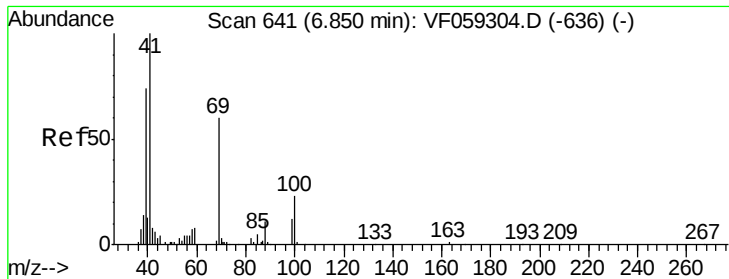
Tgt Ion: 113 Resp: 142916
Ion Ratio Lower Upper
113 100
111 110.7 82.1 123.1
192 17.5 13.0 19.6



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF059418.D
Acq: 3 Jul 2018 18:02

Tgt Ion: 43 Resp: 432
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.90 min Scan# 646

Delta R.T. 0.05 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

CL-01-062918-DRE

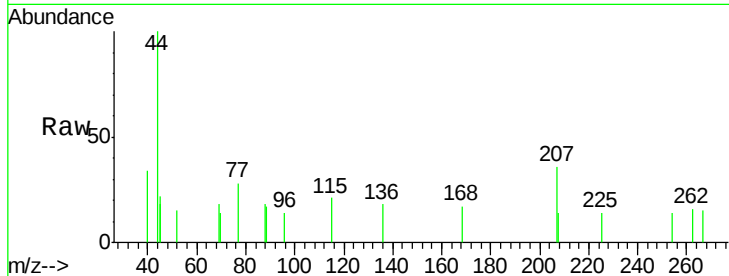
Tgt Ion: 88 Resp: 150

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

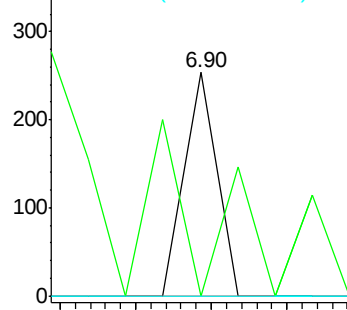
58 0.0 46.6 69.8#



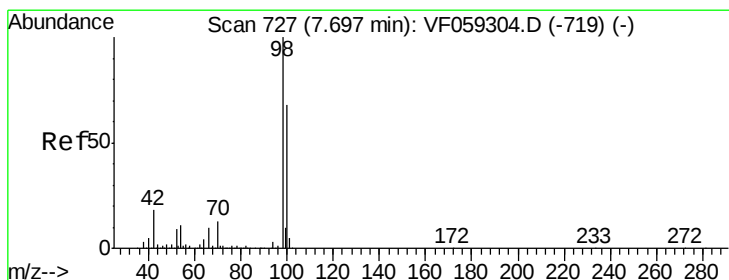
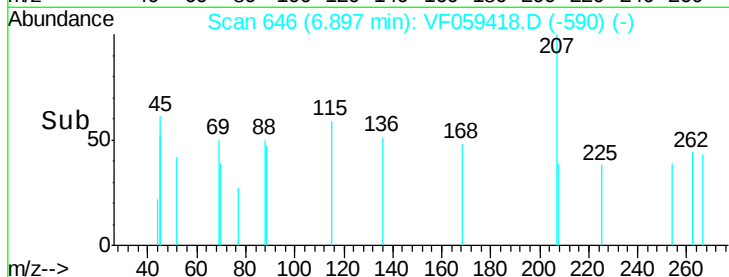
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 46.575 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059418.D

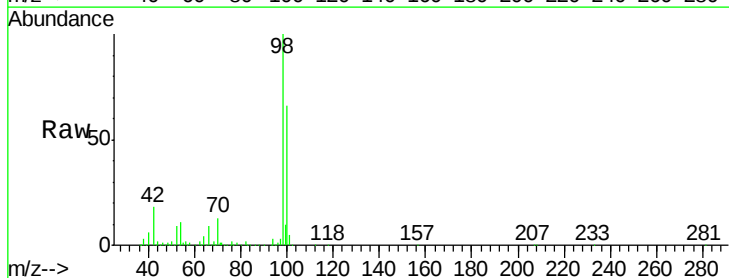
Acq: 3 Jul 2018 18:02

Tgt Ion: 98 Resp: 304967

Ion Ratio Lower Upper

98 100

100 66.3 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

150000

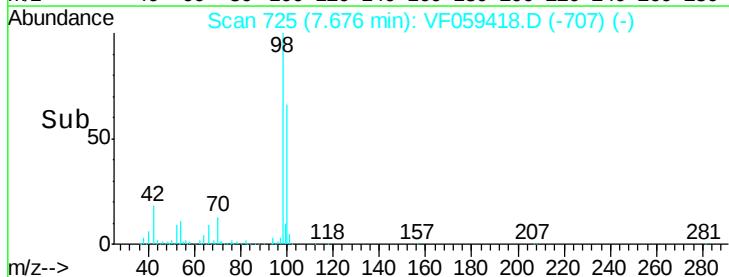
100000

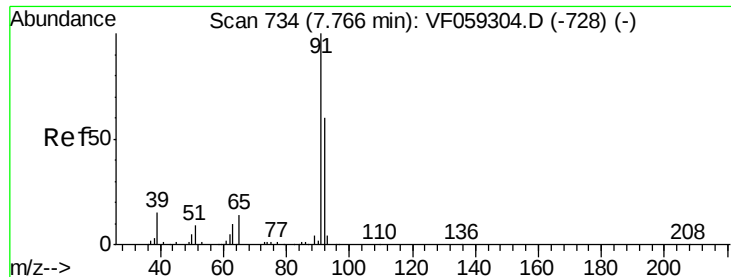
50000

0

7.50 7.60 7.70 7.80 7.90

Time-->





#52

Toluene

Concen: 1.426 ug/l

RT: 7.75 min Scan# 733

Delta R.T. -0.01 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

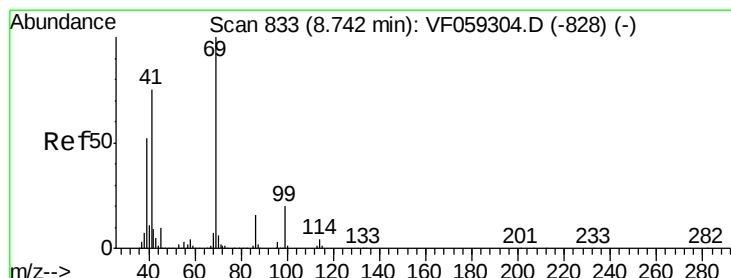
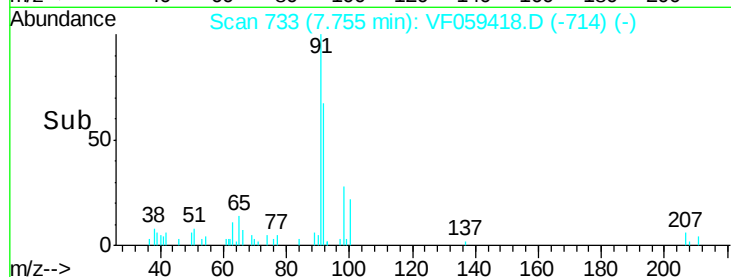
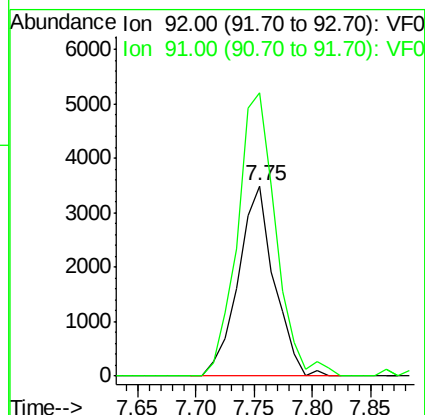
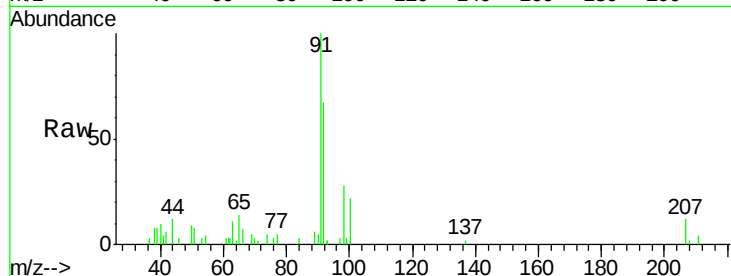
CL-01-062918-DRE

Tgt Ion: 92 Resp: 7480

Ion Ratio Lower Upper

92 100

91 148.9 132.8 199.2



#56

Ethyl methacrylate

Concen: 1.036 ug/l

RT: 8.75 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

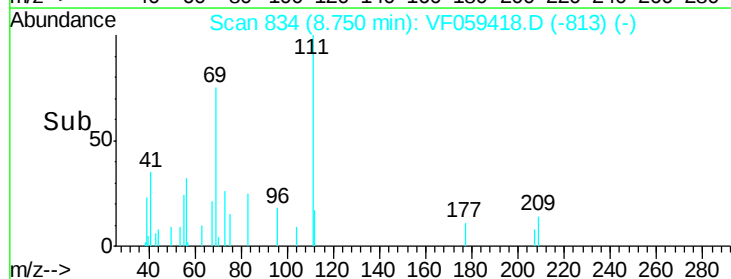
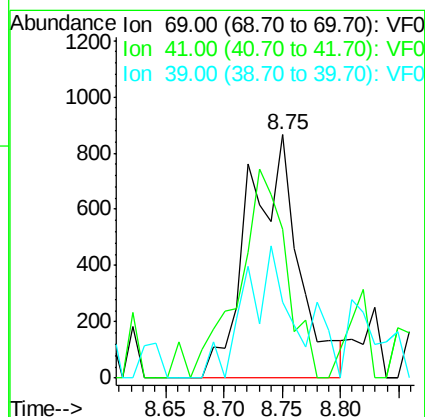
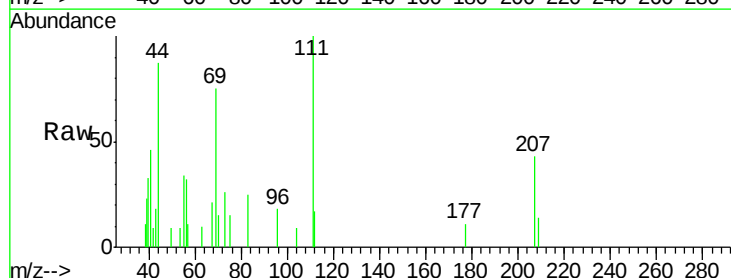
Tgt Ion: 69 Resp: 2615

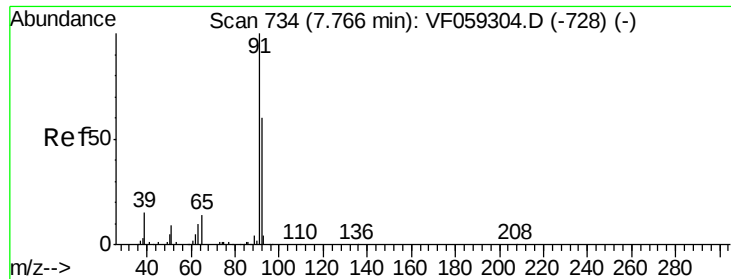
Ion Ratio Lower Upper

69 100

41 61.0 60.3 90.5

39 31.1 42.2 63.4#





#58

2-Chloroethyl Vinyl ether

Concen: 9.253 ug/l

RT: 7.74 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

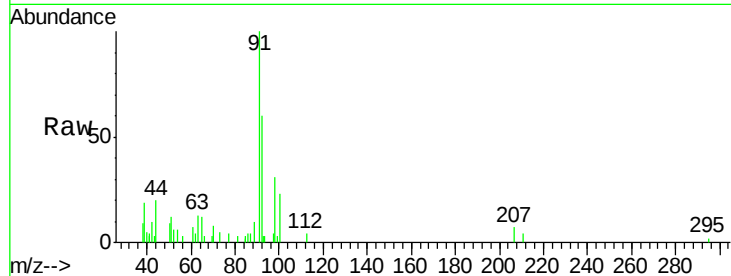
CL-01-062918-DRE

Tgt Ion: 63 Resp: 1751

Ion Ratio Lower Upper

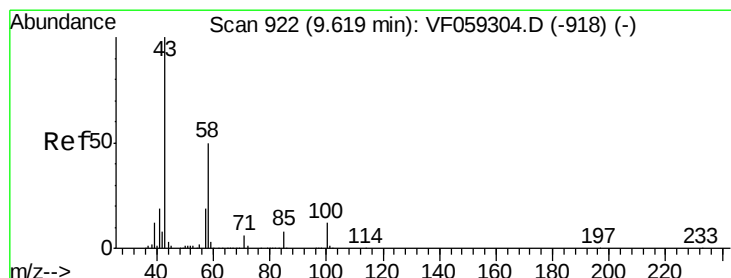
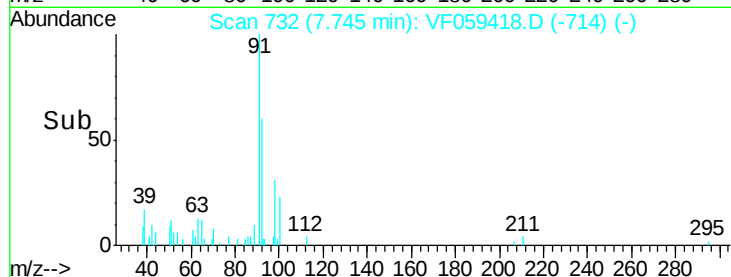
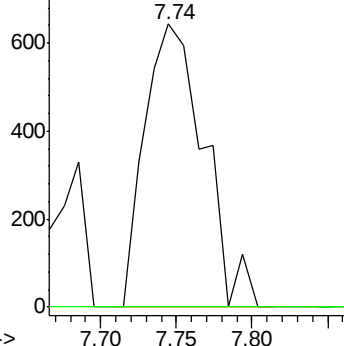
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: Below Cal

RT: 9.59 min Scan# 919

Delta R.T. -0.03 min

Lab File: VF059418.D

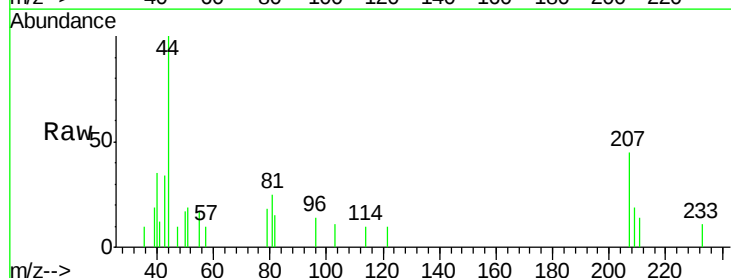
Acq: 3 Jul 2018 18:02

Tgt Ion: 43 Resp: 529

Ion Ratio Lower Upper

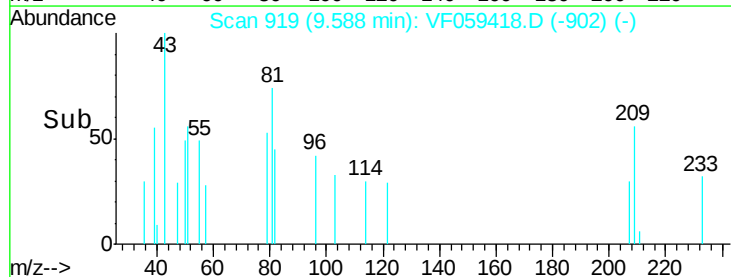
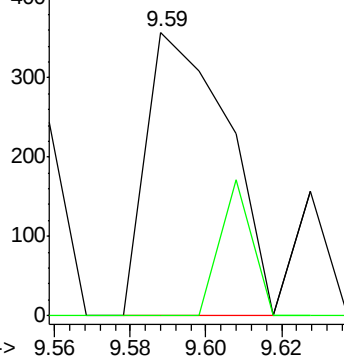
43 100

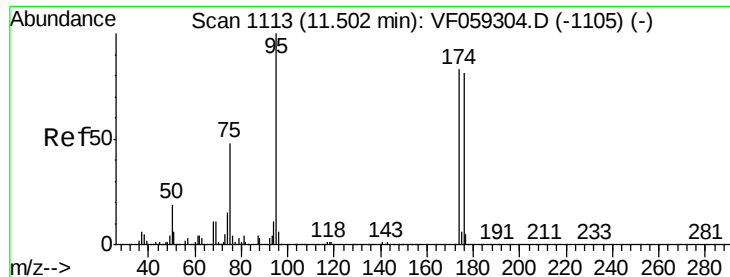
58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 43.777 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

CL-01-062918-DRE

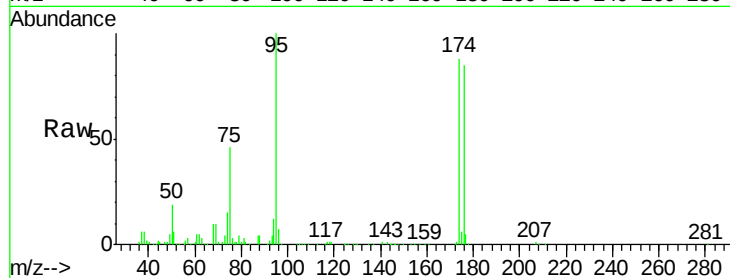
Tgt Ion: 95 Resp: 161696

Ion Ratio Lower Upper

95 100

174 88.1 0.0 165.2

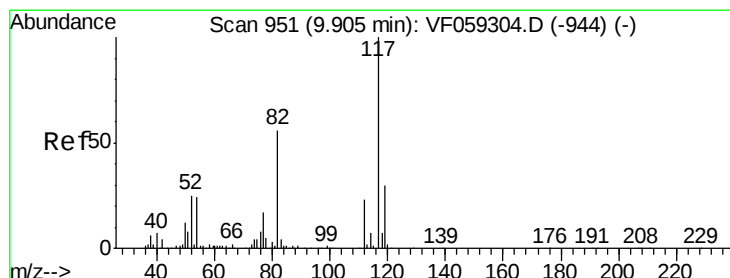
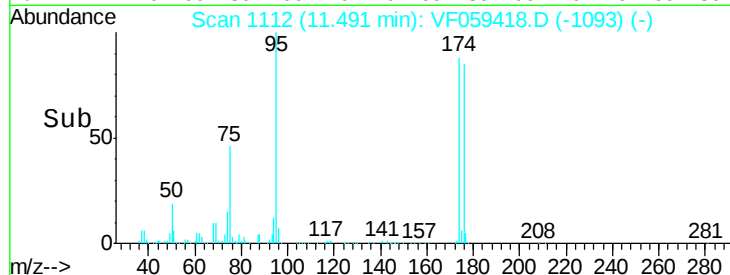
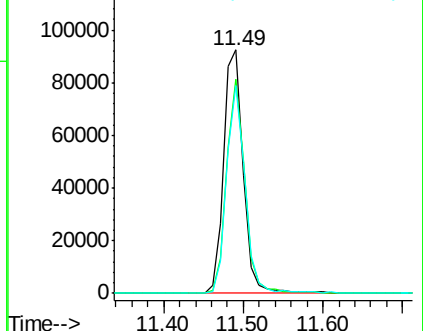
176 85.2 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.88 min Scan# 949

Delta R.T. -0.02 min

Lab File: VF059418.D

Acq: 3 Jul 2018 18:02

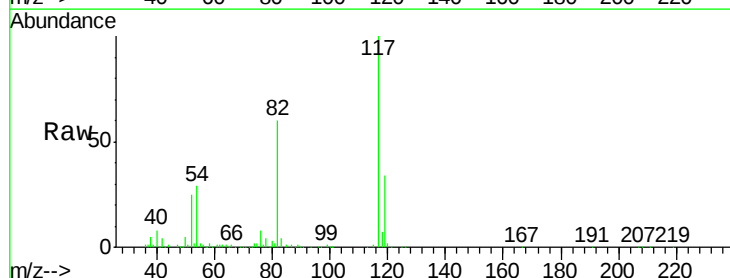
Tgt Ion: 117 Resp: 343725

Ion Ratio Lower Upper

117 100

82 60.2 44.6 66.8

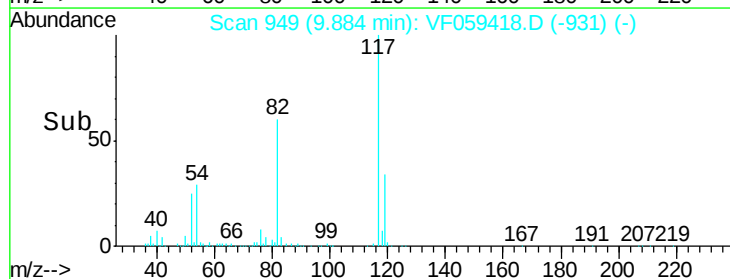
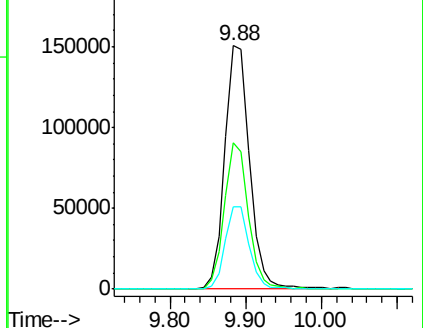
119 33.6 24.1 36.1

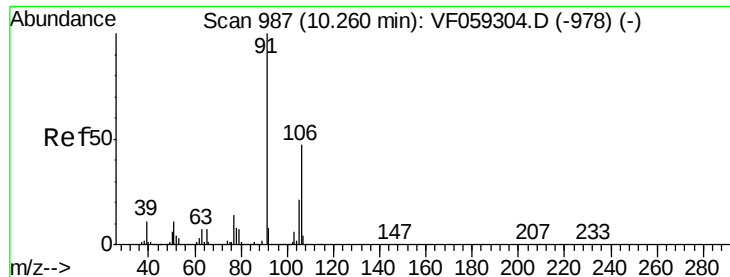


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

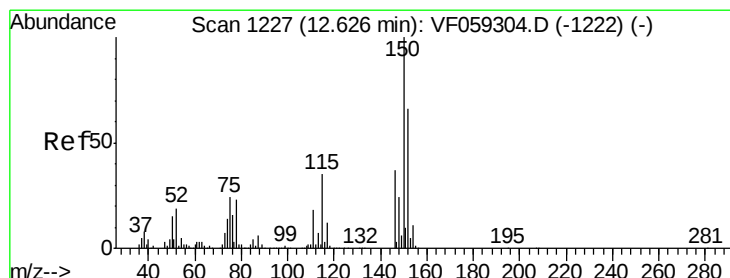
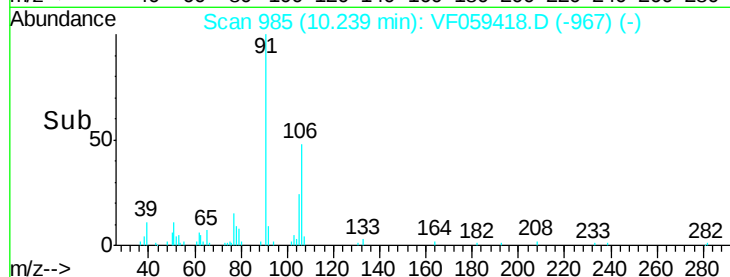
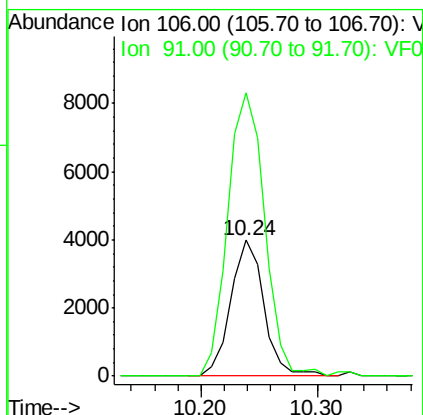
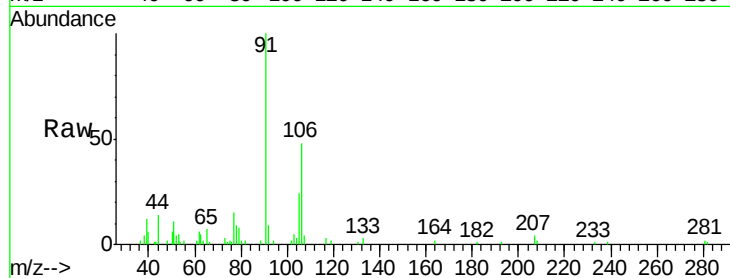




#68
m/p-Xylenes
Concen: 2.038 ug/l
RT: 10.24 min Scan# 985
Delta R.T. -0.02 min
Lab File: VF059418.D
Acq: 3 Jul 2018 18:02

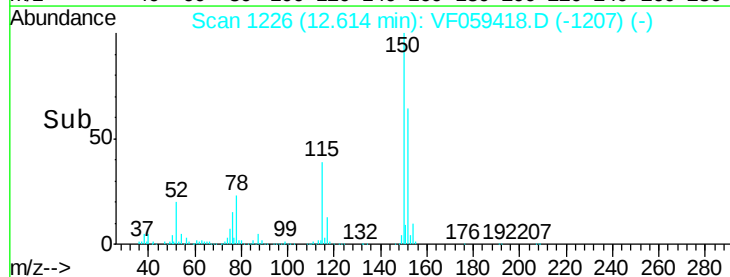
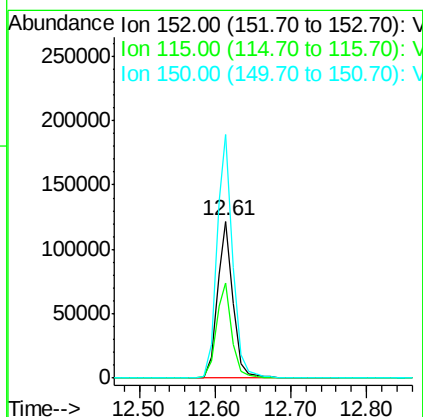
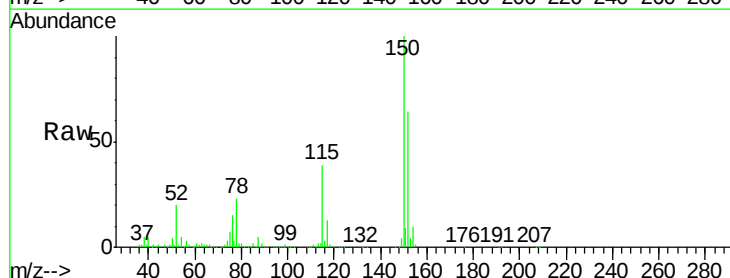
Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-DRE

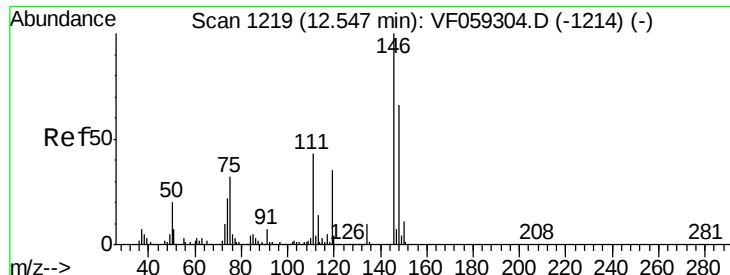
Tgt Ion:106 Resp: 7837
Ion Ratio Lower Upper
106 100
91 208.2 170.8 256.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059418.D
Acq: 3 Jul 2018 18:02

Tgt Ion:152 Resp: 176499
Ion Ratio Lower Upper
152 100
115 60.7 27.1 81.3
150 155.5 0.0 305.2

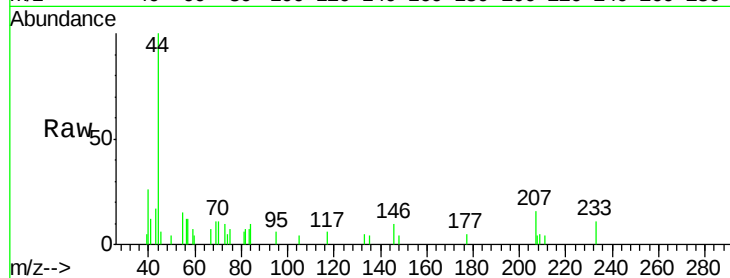




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF059418.D
 Acq: 3 Jul 2018 18:02

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-062918-DRE

Tgt Ion:146 Resp: 357
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.4 64.2#
 148 45.7 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

