

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\
 Data File : VF059319.D
 Acq On : 26 Jun 2018 16:18
 Operator : VA/AP
 Sample : J3664-16RE
 Misc : 5.82g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP021SB485-27-29-180619RE

Quant Time: Jun 27 02:20:47 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	5.02	168	274759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	421957	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.89	117	416315	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	256372	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	149504	42.12	ug/l	-0.01
Spiked Amount			Recovery	=	84.24%	
35) Dibromofluoromethane	4.27	113	137976	44.75	ug/l	0.00
Spiked Amount			Recovery	=	89.50%	
50) Toluene-d8	7.69	98	324531	42.51	ug/l	-0.01
Spiked Amount			Recovery	=	85.02%	
62) 4-Bromofluorobenzene	11.49	95	197553	45.88	ug/l	-0.01
Spiked Amount			Recovery	=	91.76%	

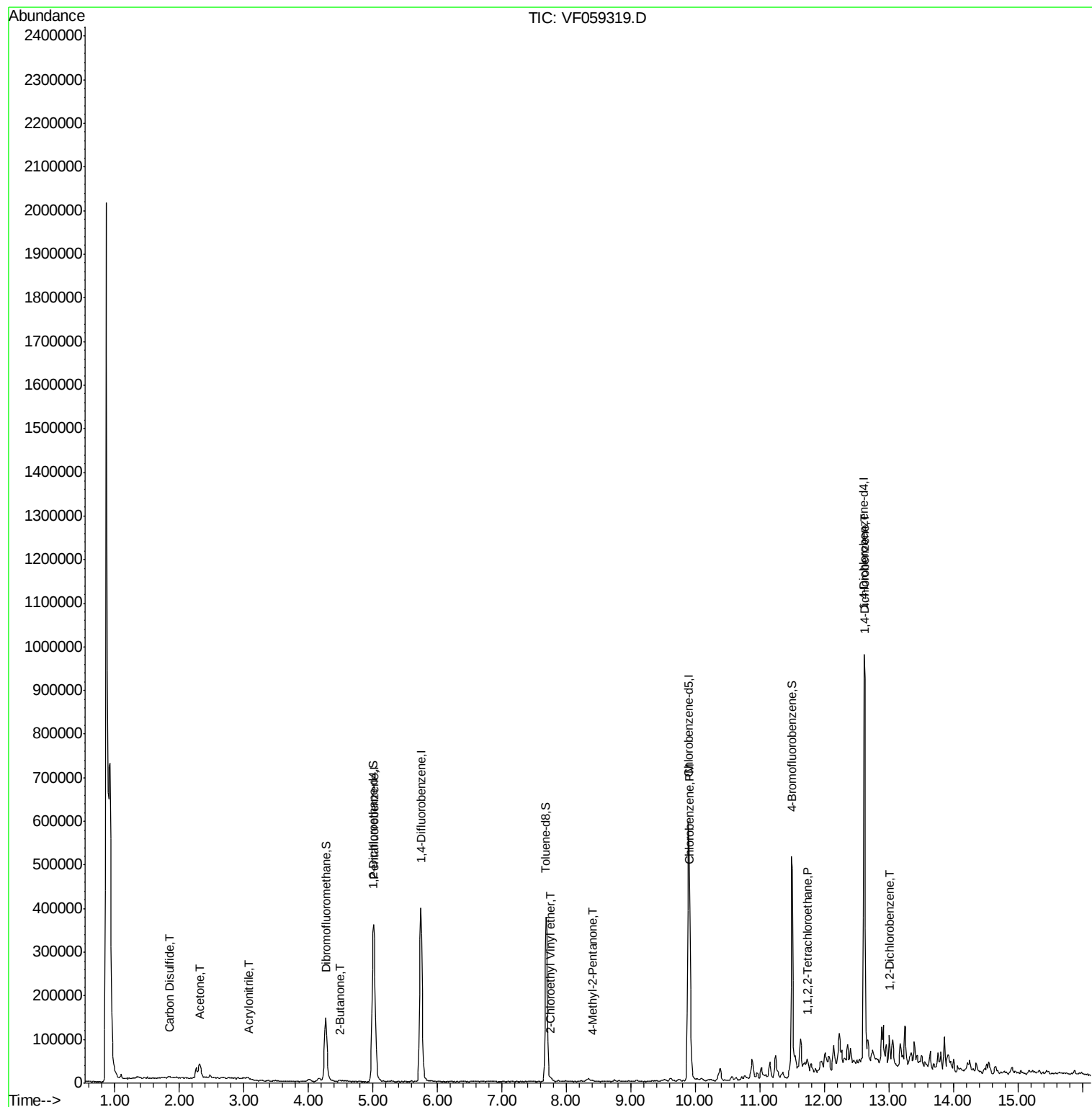
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.34	94	722	Below Cal	#	4
13) Acrolein	2.00	56	551	Below Cal		93
15) Acrylonitrile	3.07	53	433	1.040	ug/l #	23
16) Acetone	2.32	43	36506	32.295	ug/l	98
17) Carbon Disulfide	1.85	76	8879	2.330	ug/l #	88
20) Methylene Chloride	2.26	84	9656	Below Cal		90
25) 2-Butanone	4.49	43	6917	3.735	ug/l	93
28) Bromochloromethane	4.01	49	506	Below Cal	#	6
29) Tetrahydrofuran	4.22	42	1503	Below Cal	#	40
37) Ethyl Acetate	4.24	43	963	Below Cal	#	26
49) 1,4-Dioxane	6.87	88	110	Below Cal	#	57
51) 4-Methyl-2-Pentanone	8.40	43	2778	1.221	ug/l #	64
58) 2-Chloroethyl Vinyl ether	7.76	63	391	1.772	ug/l	100
59) 2-Hexanone	9.62	43	6380	Below Cal		88
65) Chlorobenzene	9.92	112	63193	8.192	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.75	83	4554	1.207	ug/l #	35
87) 1,3-Dichlorobenzene	12.63	146	11916	Below Cal		91
88) 1,4-Dichlorobenzene	12.63	146	11917	1.610	ug/l	90
91) 1,2-Dichlorobenzene	13.01	146	13658	1.816	ug/l	94

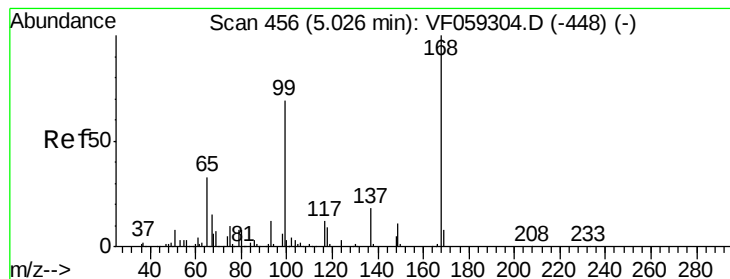
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

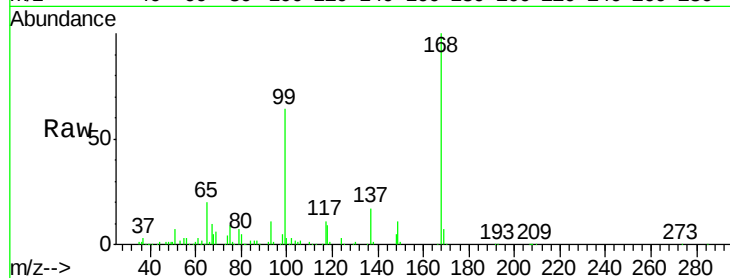
WP021SB485-27-29-180619RE

Tot Ion:168 Resp: 274759

Ion Ratio Lower Upper

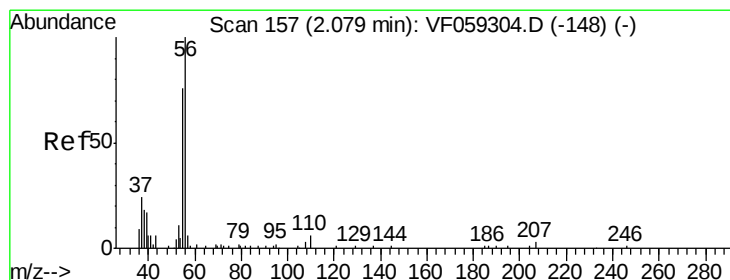
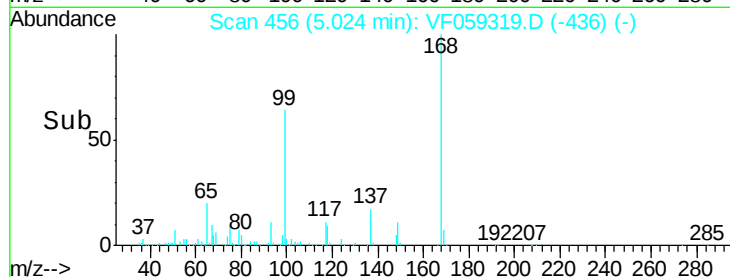
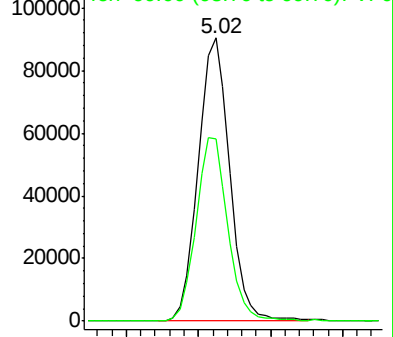
168 100

99 64.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: Below Cal

RT: 2.00 min Scan# 149

Delta R.T. -0.08 min

Lab File: VF059319.D

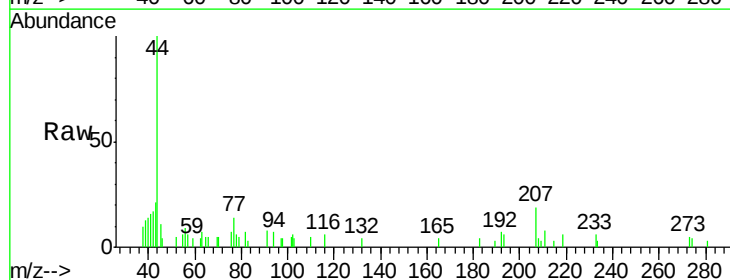
Acq: 26 Jun 2018 16:18

Tgt Ion: 56 Resp: 551

Ion Ratio Lower Upper

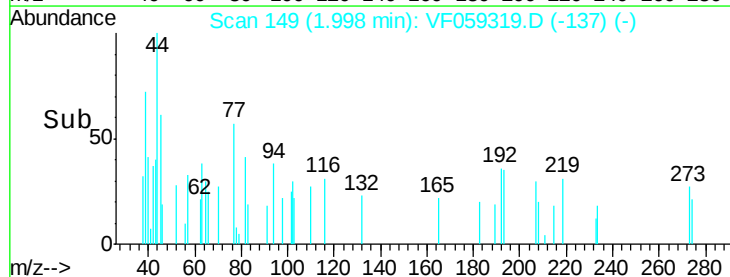
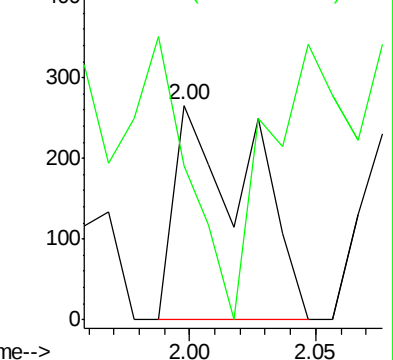
56 100

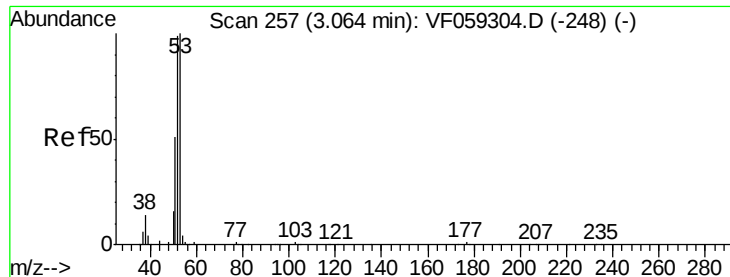
55 71.8 62.4 93.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 1.040 ug/l

RT: 3.07 min Scan# 258

Delta R.T. 0.01 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-27-29-180619RE

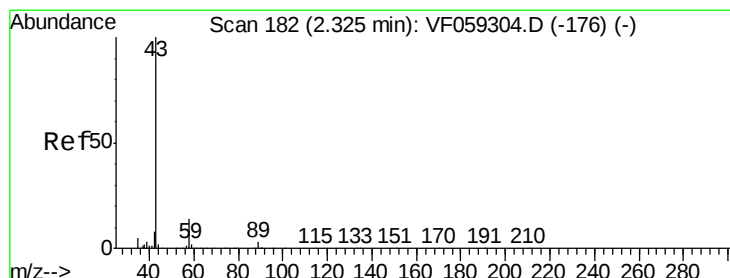
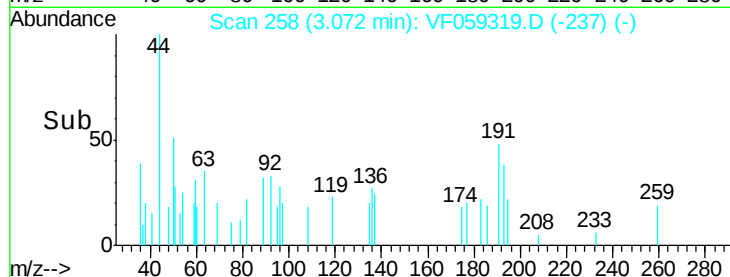
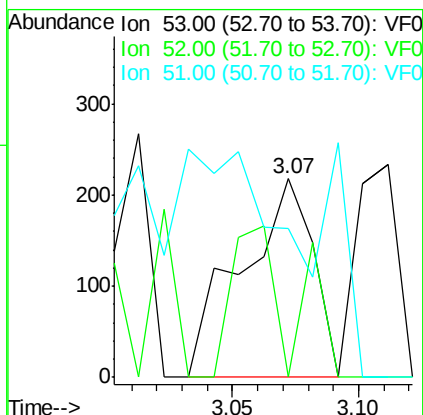
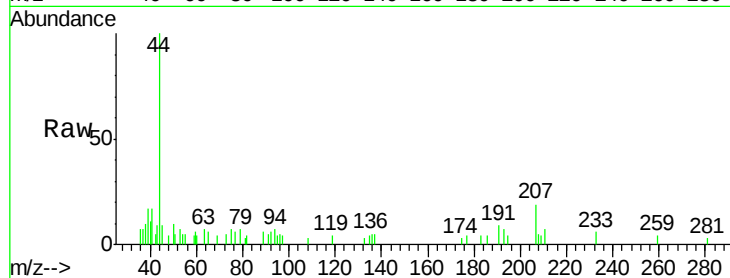
Tot Ion: 53 Resp: 433

Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

51 75.2 40.9 61.3#



#16

Acetone

Concen: 32.295 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059319.D

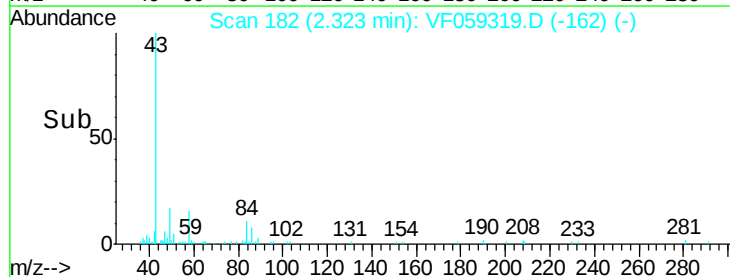
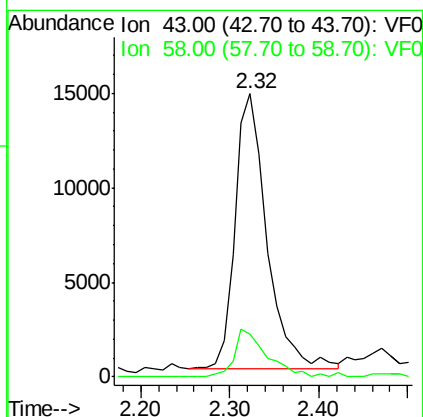
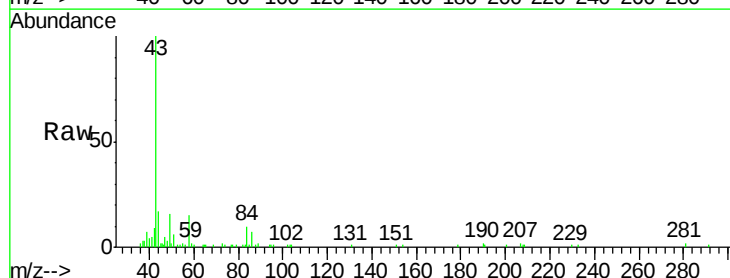
Acq: 26 Jun 2018 16:18

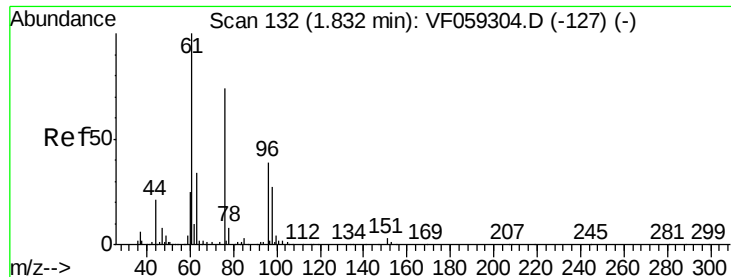
Tgt Ion: 43 Resp: 36506

Ion Ratio Lower Upper

43 100

58 14.9 11.4 17.0





#17

Carbon Disulfide

Concen: 2.330 ug/l

RT: 1.85 min Scan# 134

Delta R.T. 0.02 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

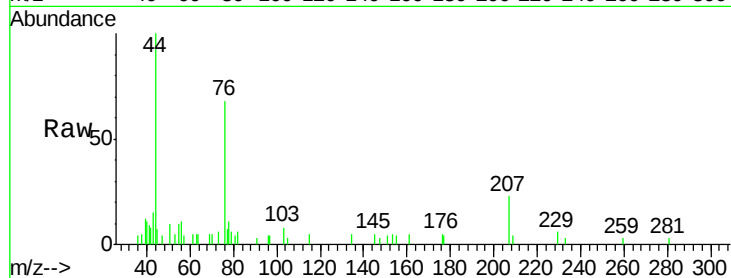
WP021SB485-27-29-180619RE

Tot Ion: 76 Resp: 8879

Ion Ratio Lower Upper

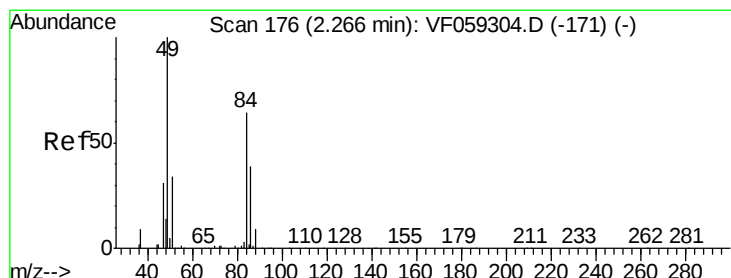
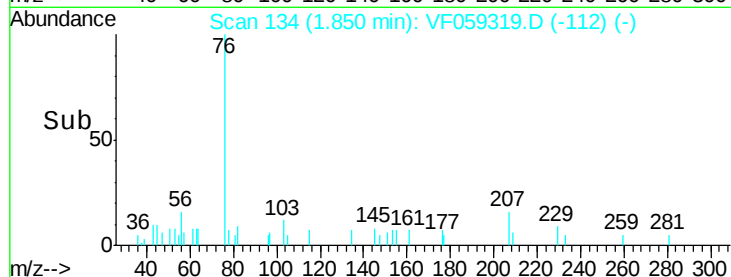
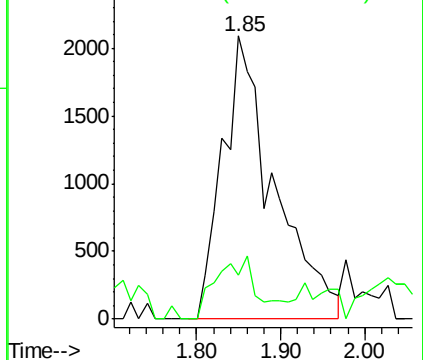
76 100

78 15.7 8.9 13.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.26 min Scan# 176

Delta R.T. -0.00 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Tgt Ion: 84 Resp: 9656

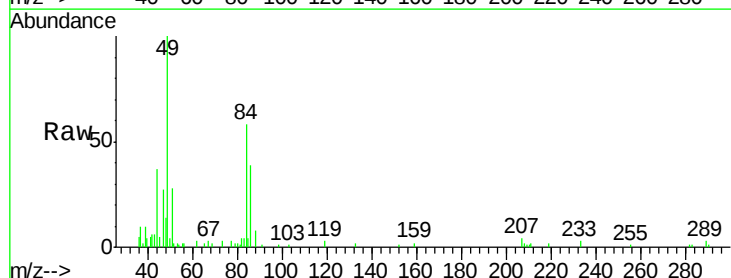
Ion Ratio Lower Upper

84 100

49 173.8 126.5 189.7

51 48.7 42.9 64.3

86 68.3 48.6 73.0

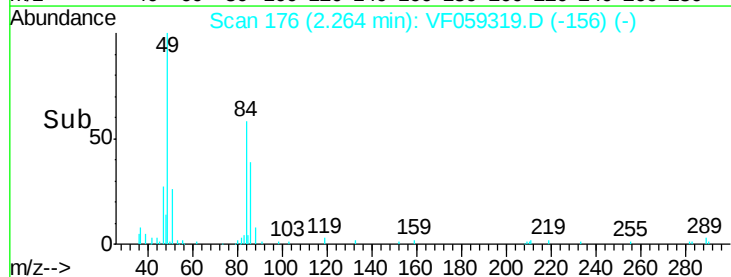
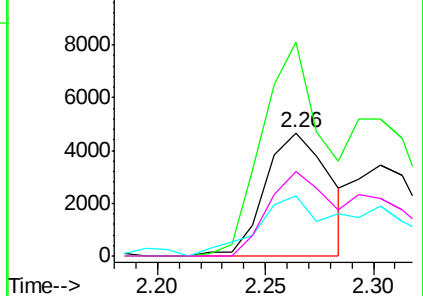


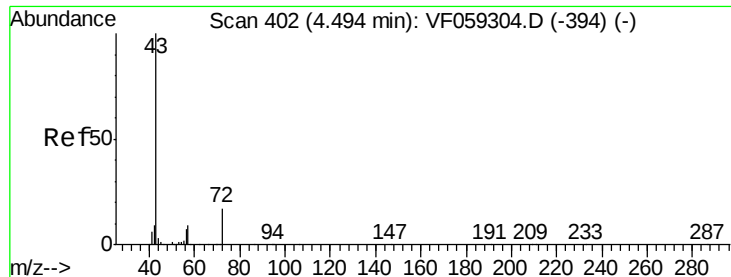
Abundance Ion 84.00 (83.70 to 84.70): VF0

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: 3.735 ug/l

RT: 4.49 min Scan# 402

Delta R.T. -0.00 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

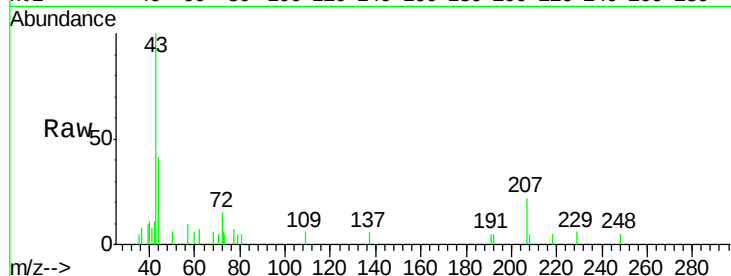
WP021SB485-27-29-180619RE

Tot Ion: 43 Resp: 6917

Ion Ratio Lower Upper

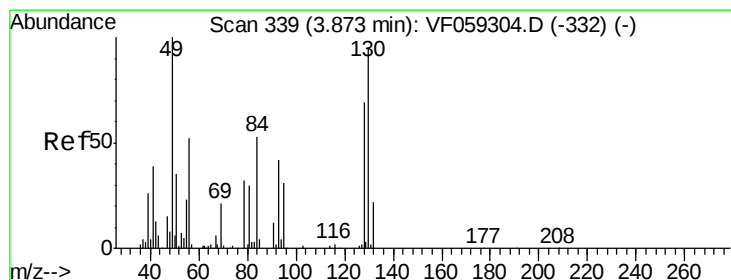
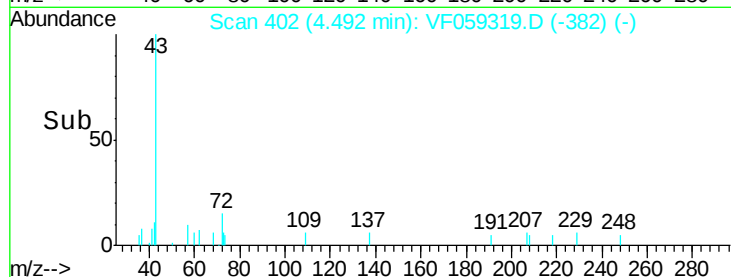
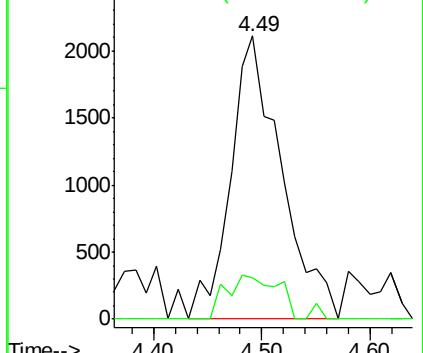
43 100

72 14.8 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: 4.01 min Scan# 353

Delta R.T. 0.14 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

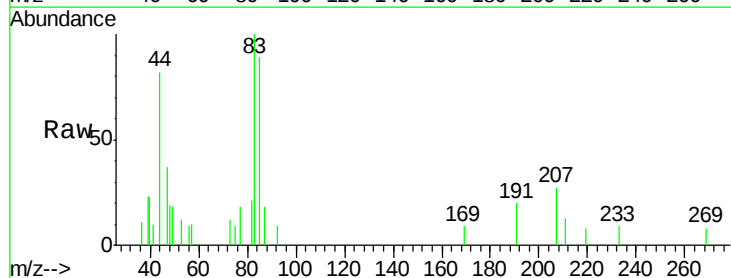
Tgt Ion: 49 Resp: 506

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

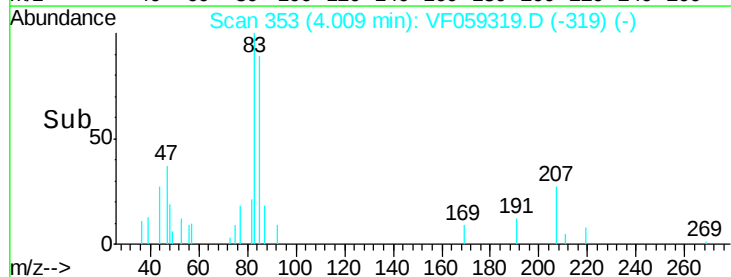
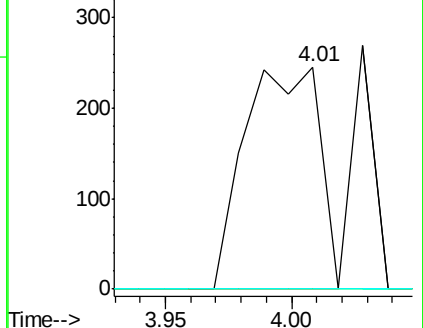
130 0.0 75.1 112.7#

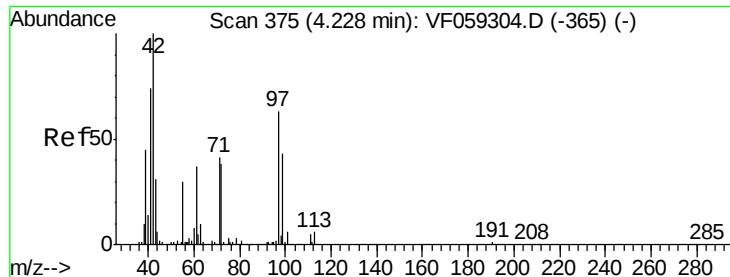


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.22 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

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ClientSampleId :

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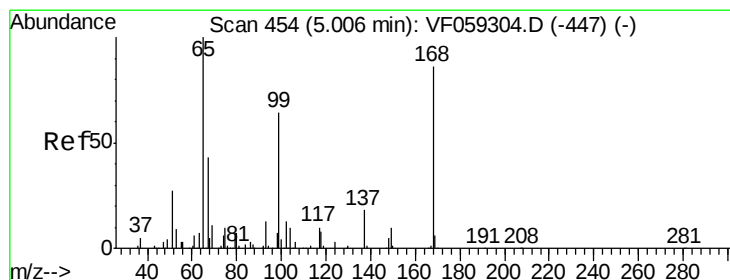
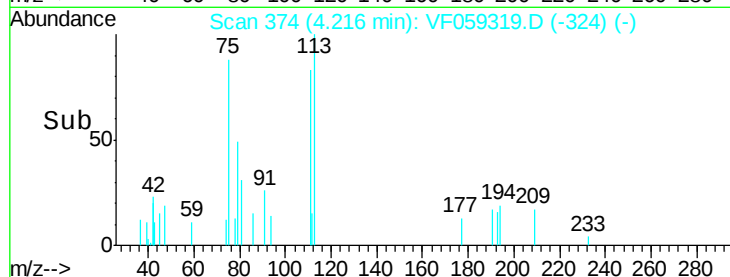
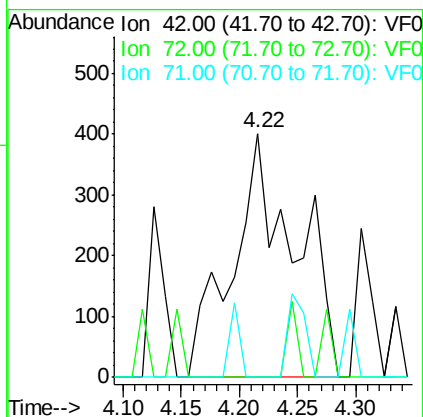
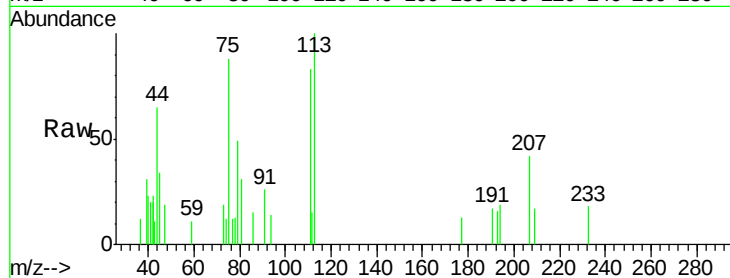
Tot Ion: 42 Resp: 1503

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

71 4.9 32.5 48.7#



#33

1,2-Dichloroethane-d4

Concen: 42.116 ug/l

RT: 4.99 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059319.D

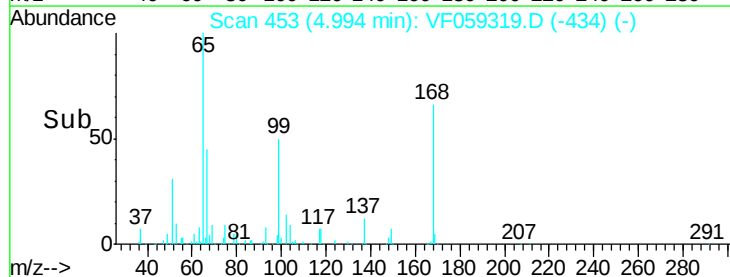
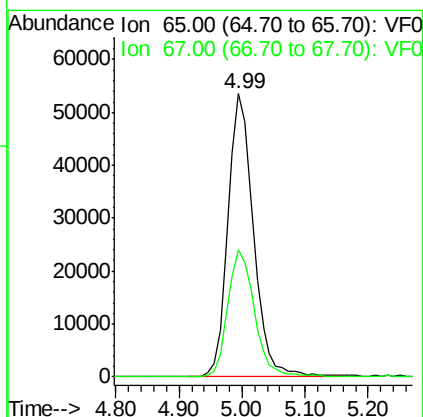
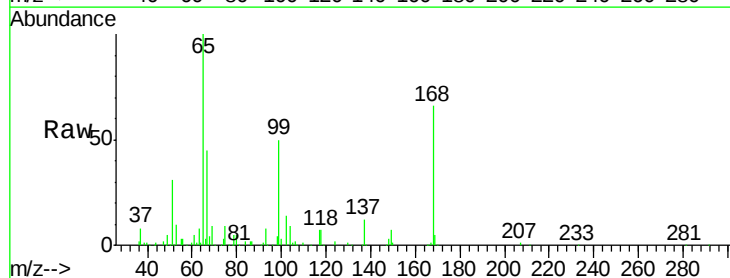
Acq: 26 Jun 2018 16:18

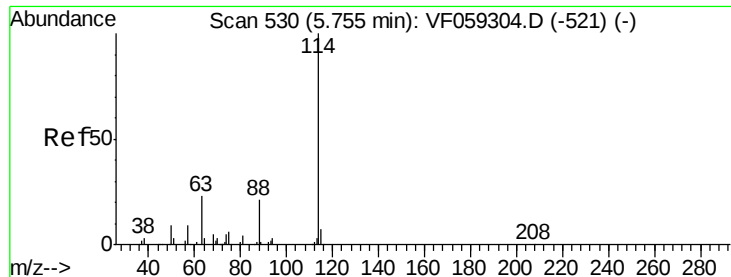
Tgt Ion: 65 Resp: 149504

Ion Ratio Lower Upper

65 100

67 45.0 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

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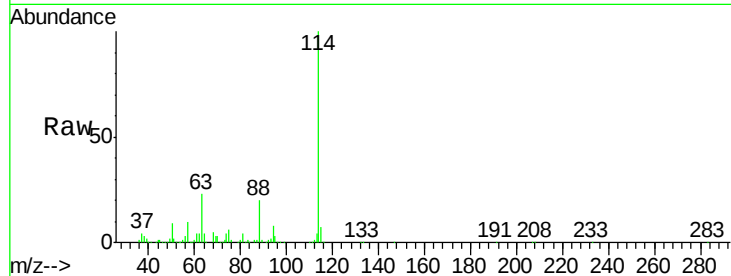
Tot Ion:114 Resp: 421957

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.8

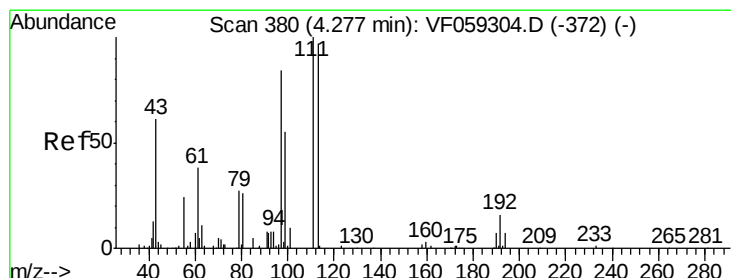
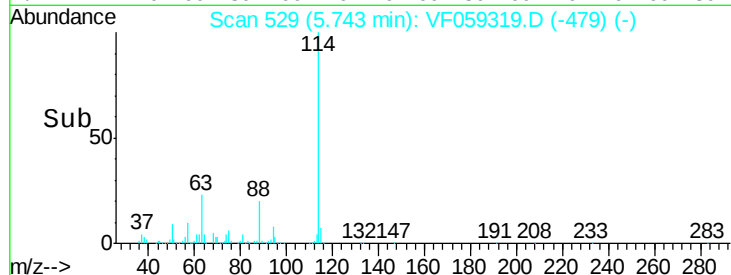
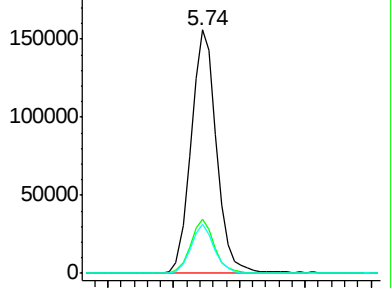
88 20.0 0.0 41.2



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: 44.752 ug/l

RT: 4.27 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

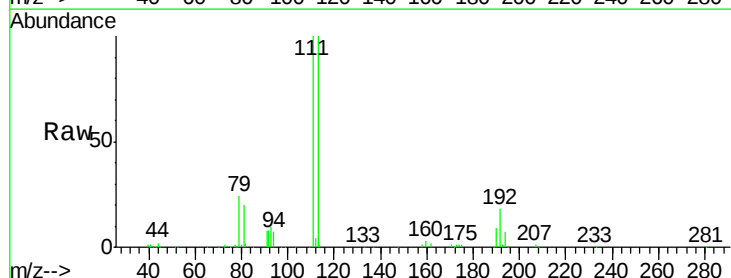
Tgt Ion:113 Resp: 137976

Ion Ratio Lower Upper

113 100

111 100.2 82.1 123.1

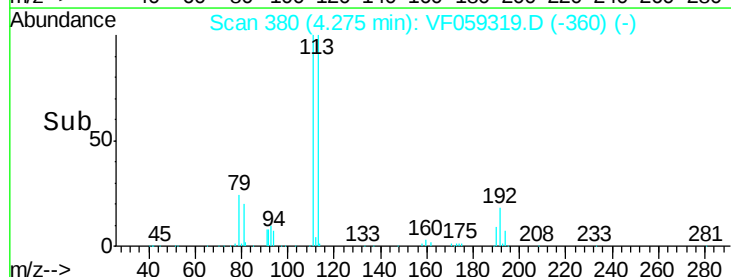
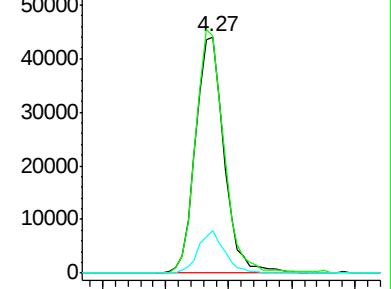
192 18.0 13.0 19.6

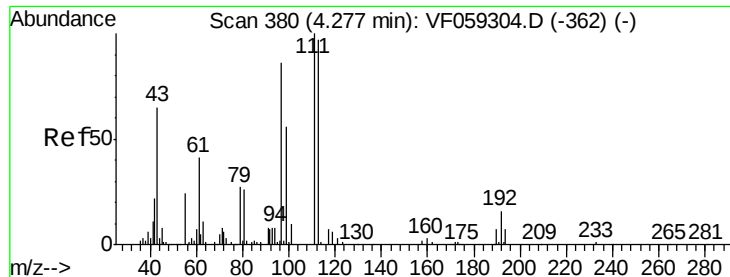


Abundance Ion 113.00 (112.70 to 113.70): V

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: 4.24 min Scan# 376

Delta R.T. -0.04 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

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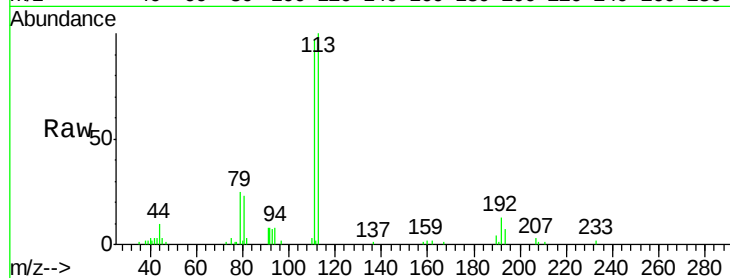
Tot Ion: 43 Resp: 963

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

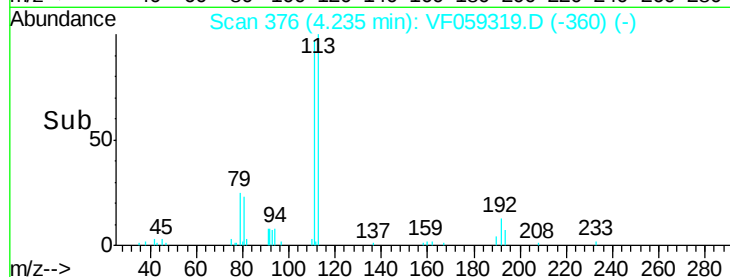
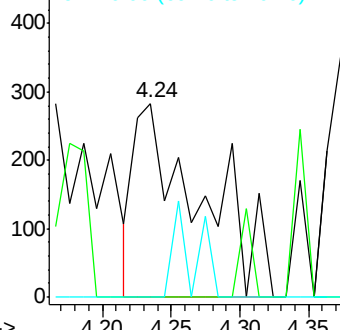
70 0.0 6.2 9.4#



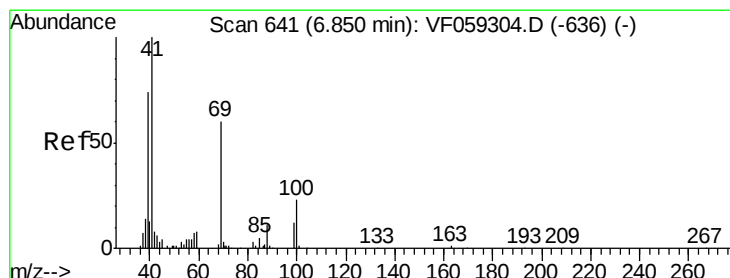
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.87 min Scan# 643

Delta R.T. 0.02 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

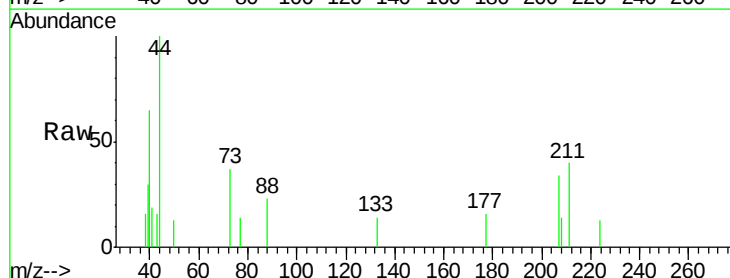
Tgt Ion: 88 Resp: 110

Ion Ratio Lower Upper

88 100

43 72.0 50.6 75.8

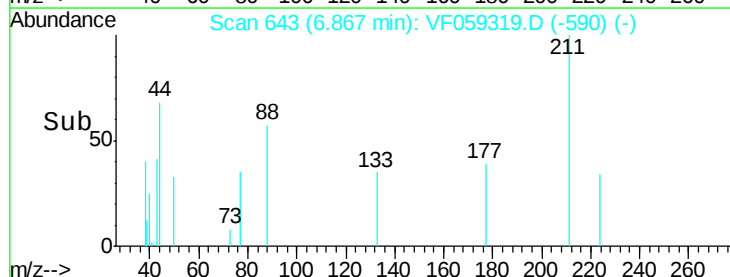
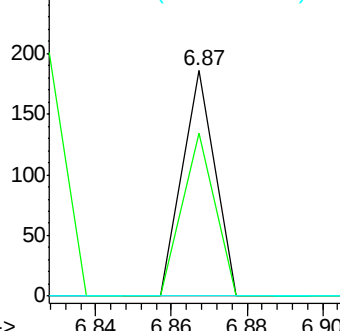
58 0.0 46.6 69.8#

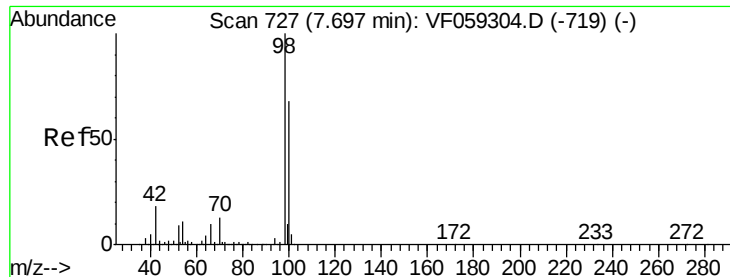


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 42.514 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

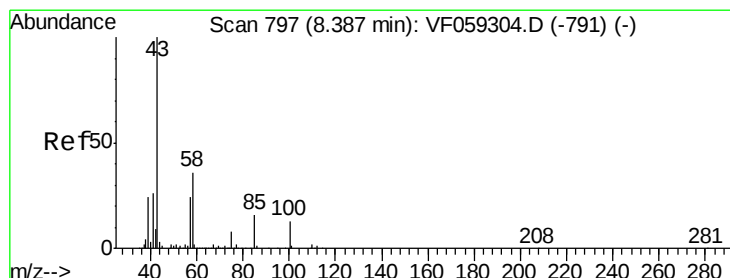
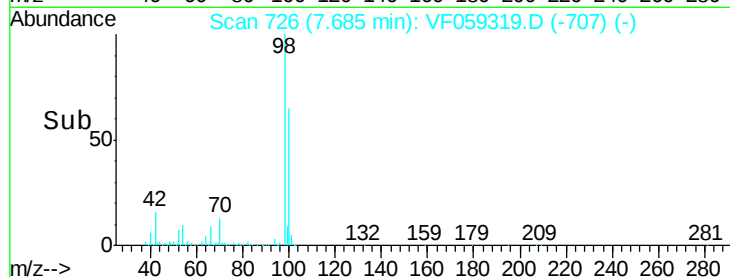
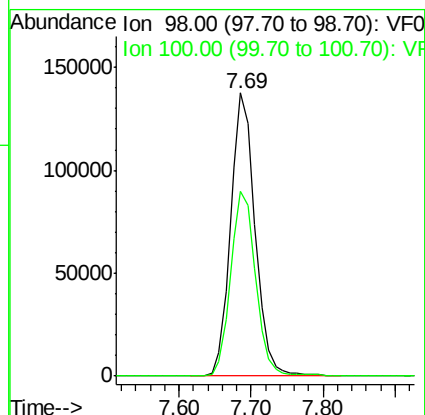
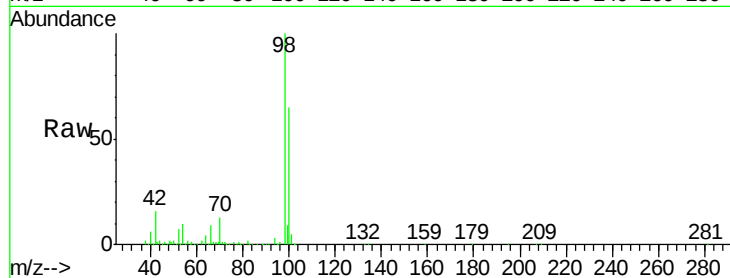
WP021SB485-27-29-180619RE

Tot Ion: 98 Resp: 324531

Ion Ratio Lower Upper

98 100

100 65.3 54.6 82.0



#51

4-Methyl-2-Pentanone

Concen: 1.221 ug/l

RT: 8.40 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF059319.D

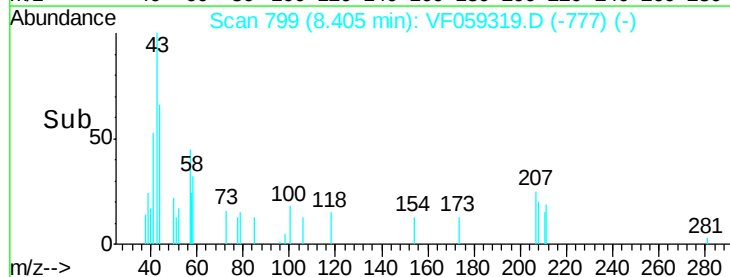
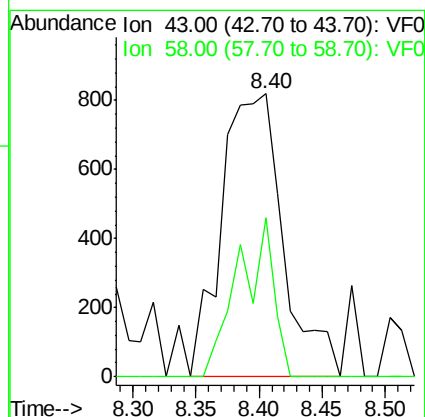
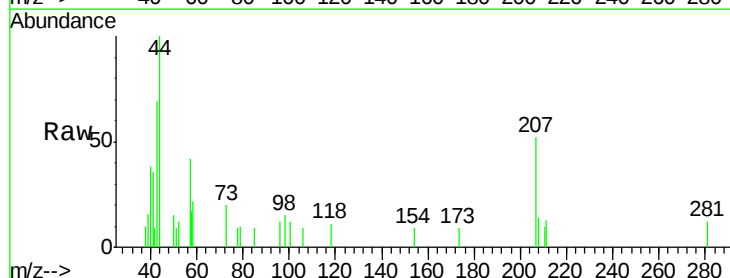
Acq: 26 Jun 2018 16:18

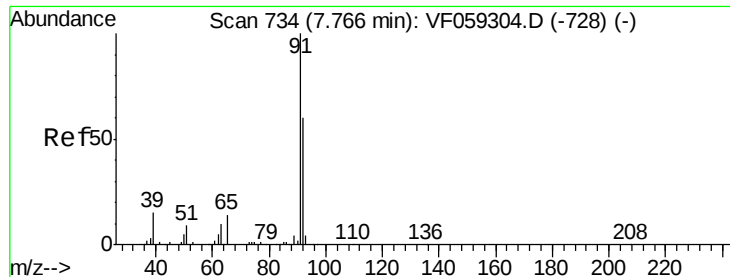
Tgt Ion: 43 Resp: 2778

Ion Ratio Lower Upper

43 100

58 56.3 28.4 42.6#





#58

2-Chloroethyl Vinyl ether

Concen: 1.772 ug/l

RT: 7.76 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

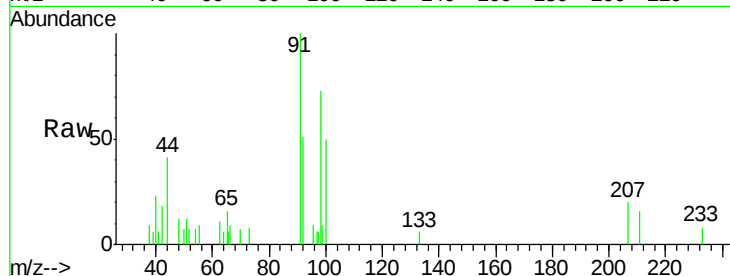
WP021SB485-27-29-180619RE

Tot Ion: 63 Resp: 391

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

7.76

200

150

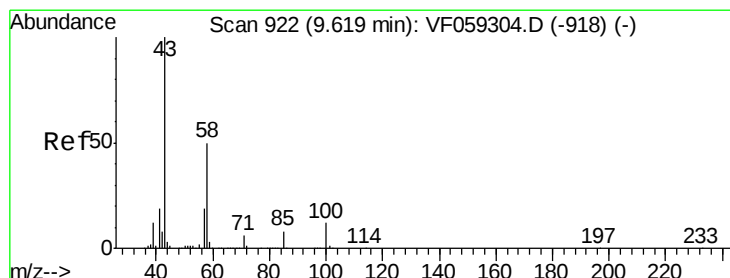
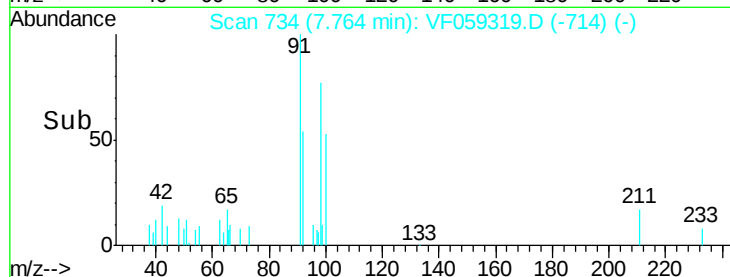
100

50

0

7.70 7.75 7.80

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: VF059319.D

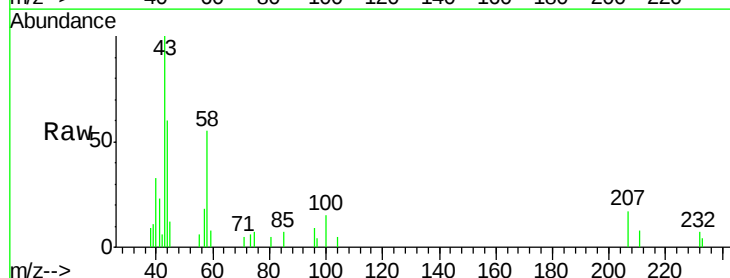
Acq: 26 Jun 2018 16:18

Tgt Ion: 43 Resp: 6380

Ion Ratio Lower Upper

43 100

58 54.7 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.62

2500

2000

1500

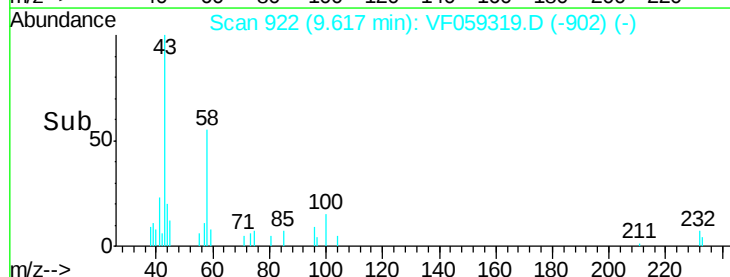
1000

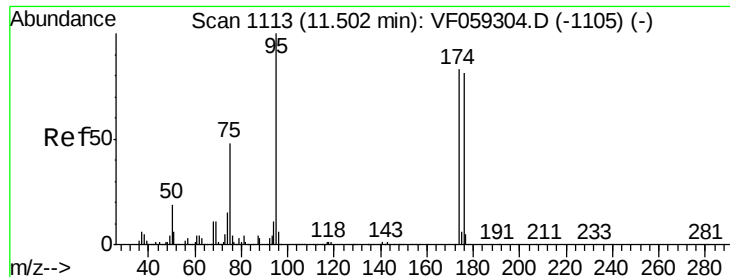
500

0

9.55 9.60 9.65 9.70

Time-->





#62

4-Bromofluorobenzene

Concen: 45.879 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-27-29-180619RE

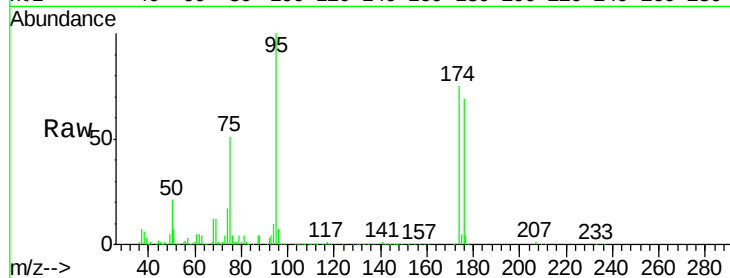
Tot Ion: 95 Resp: 197553

Ion Ratio Lower Upper

95 100

174 75.0 0.0 165.2

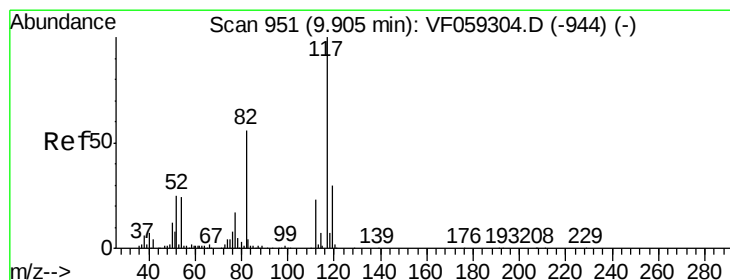
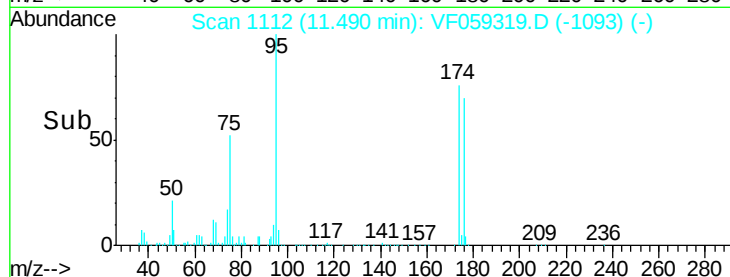
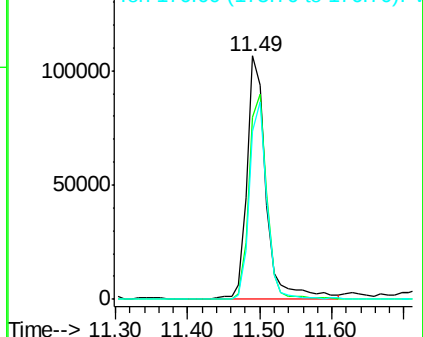
176 68.8 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.89 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

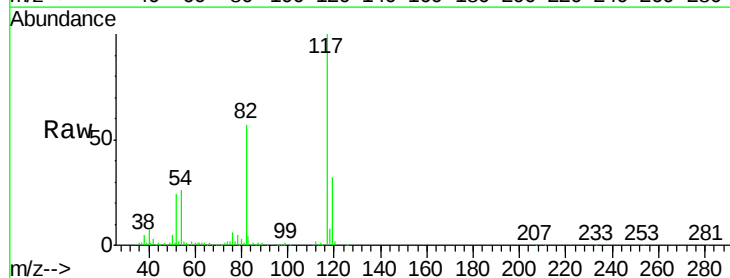
Tgt Ion: 117 Resp: 416315

Ion Ratio Lower Upper

117 100

82 56.8 44.6 66.8

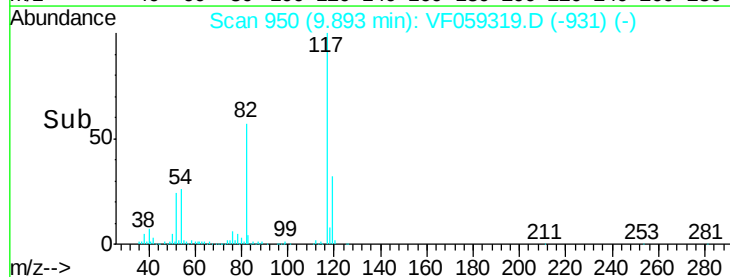
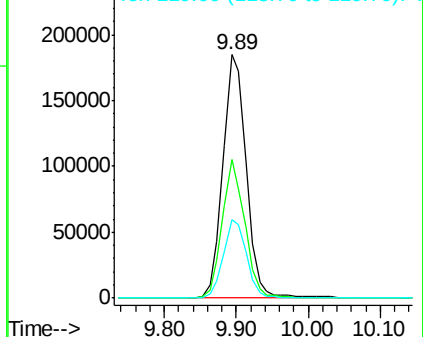
119 32.3 24.1 36.1

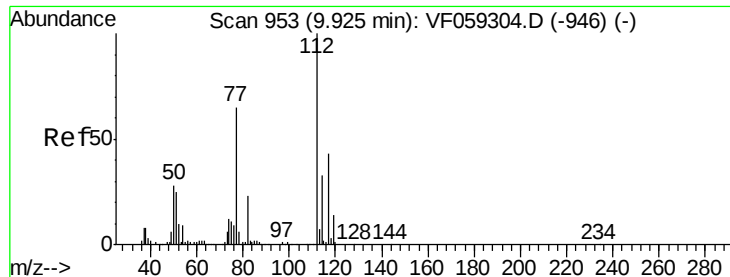


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

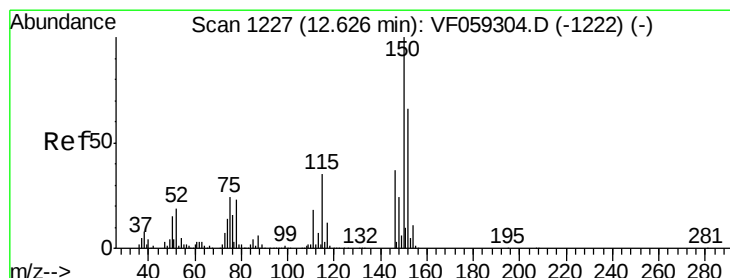
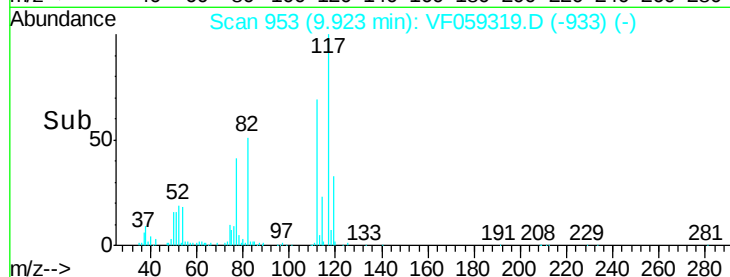
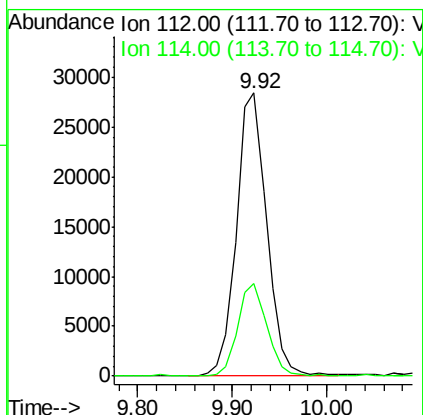
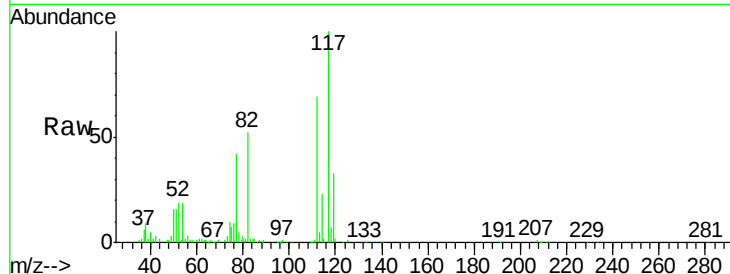




#65
Chlorobenzene
Concen: 8.192 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF059319.D
Acq: 26 Jun 2018 16:18

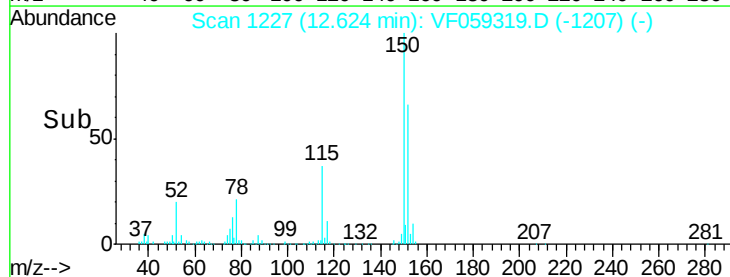
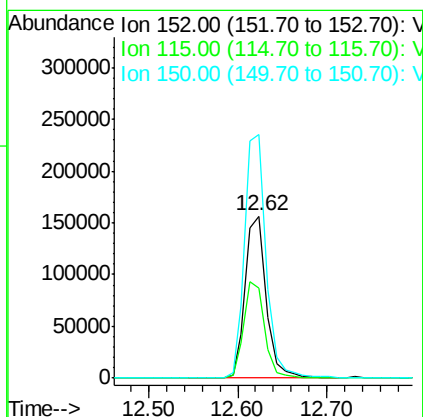
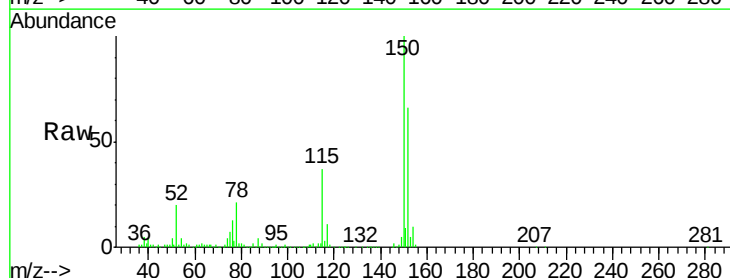
Instrument :
MSVOA_F
ClientSampleId :
WP021SB485-27-29-180619RE

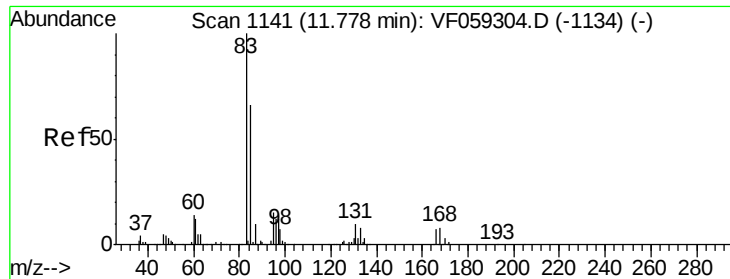
Tot Ion:112 Resp: 63193
Ion Ratio Lower Upper
112 100
114 32.8 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059319.D
Acq: 26 Jun 2018 16:18

Tgt Ion:152 Resp: 256372
Ion Ratio Lower Upper
152 100
115 55.8 27.1 81.3
150 150.4 0.0 305.2





#75

1,1,2,2-Tetrachloroethane

Concen: 1.207 ug/l

RT: 11.75 min Scan# 1138

Delta R.T. -0.03 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-27-29-180619RE

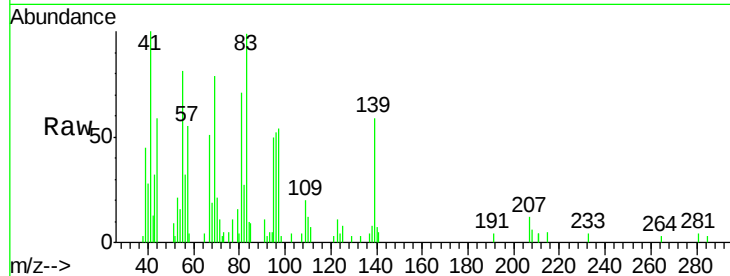
Tot Ion: 83 Resp: 4554

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

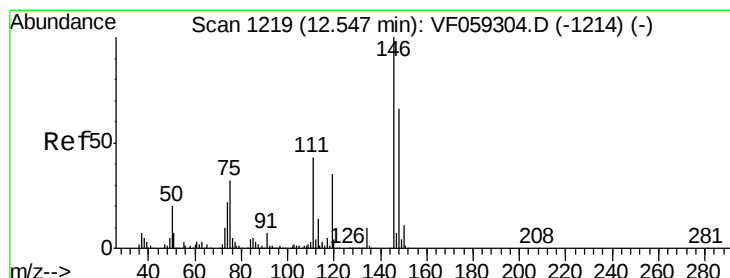
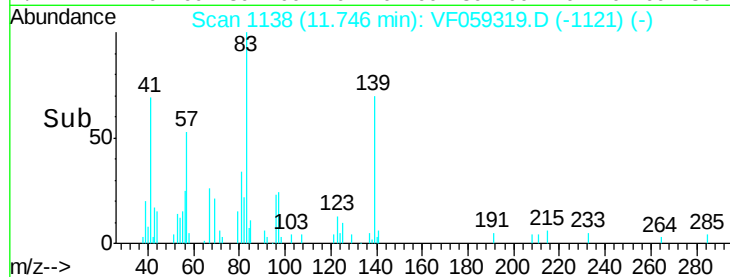
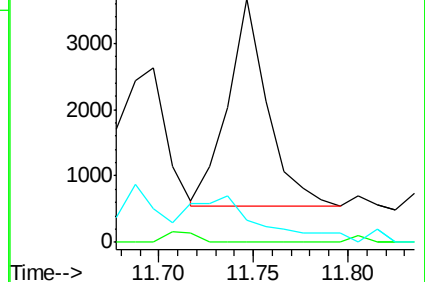
85 9.3 32.8 98.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.63 min Scan# 1228

Delta R.T. 0.09 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

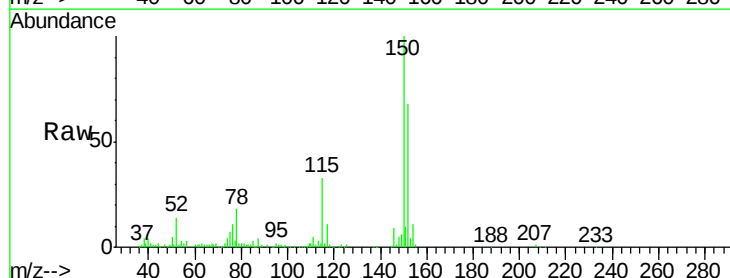
Tgt Ion: 146 Resp: 11916

Ion Ratio Lower Upper

146 100

111 49.0 21.4 64.2

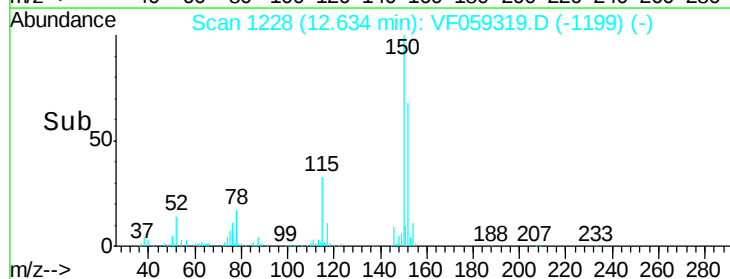
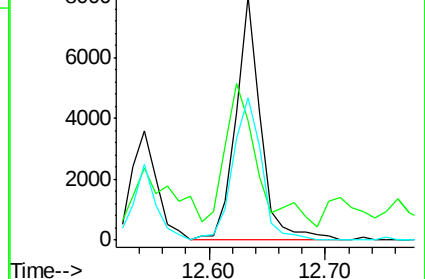
148 58.4 32.8 98.4

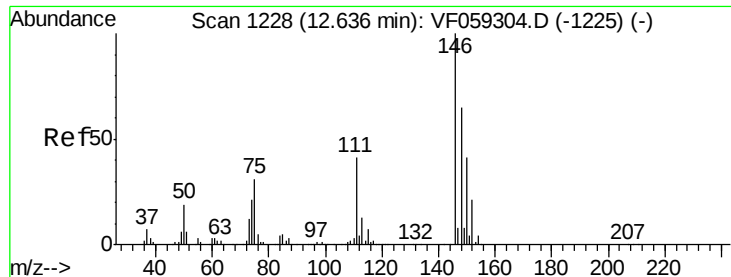


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#88

1,4-Dichlorobenzene

Concen: 1.610 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-27-29-180619RE

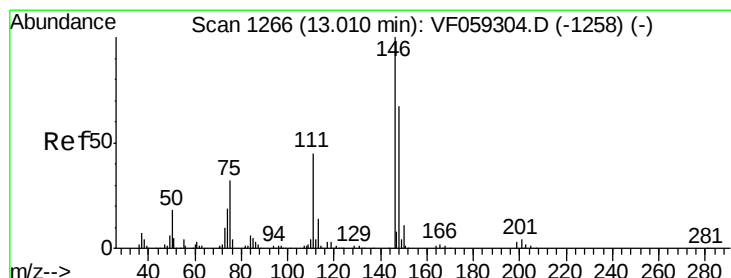
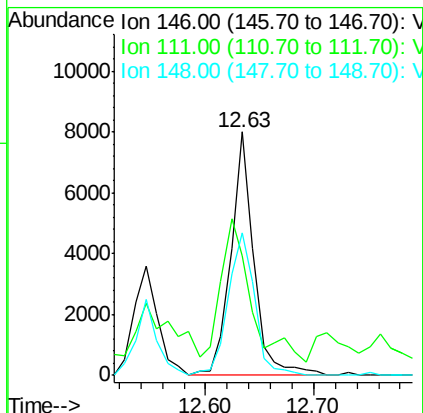
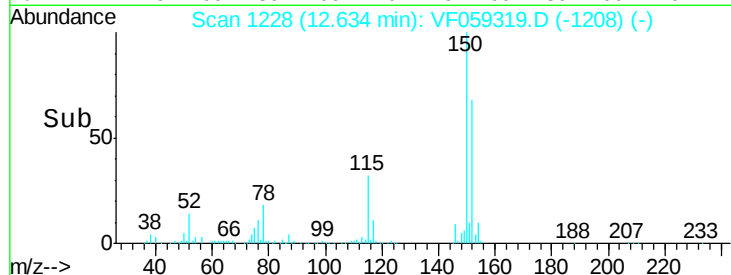
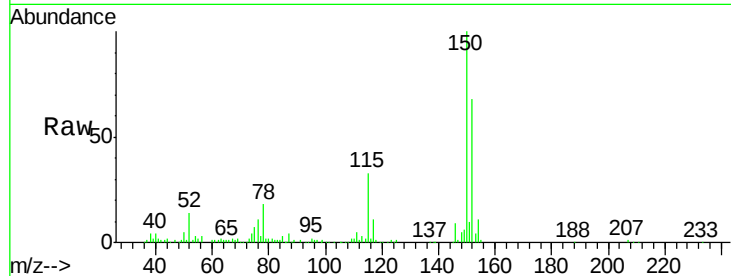
Tot Ion:146 Resp: 11917

Ion Ratio Lower Upper

146 100

111 49.0 20.7 62.1

148 58.4 32.8 98.3



#91

1,2-Dichlorobenzene

Concen: 1.816 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VF059319.D

Acq: 26 Jun 2018 16:18

Tgt Ion:146 Resp: 13658

Ion Ratio Lower Upper

146 100

111 54.2 22.7 68.0

148 66.5 33.5 100.4

