

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
 Data File : BF115693.D
 Acq On : 20 Jul 2019 1:03
 Operator : HP/JU
 Sample : K3887-03 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 20 04:01:23 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 12 14:03:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	204527	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	751518	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	362234	20.00	ng	0.00
64) Phenanthrene-d10	11.42	188	471274	20.00	ng	0.00
76) Chrysene-d12	14.07	240	270132	20.00	ng	0.02
87) Perylene-d12	15.54	264	302778	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	448057	35.83	ng	0.00
7) Phenol-d6	6.51	99	710033	44.75	ng	0.00
23) Nitrobenzene-d5	7.44	82	427251	33.06	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	134247	31.75	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	645420	31.19	ng	-0.01
79) Terphenyl-d14	13.00	244	434975	29.71	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
18) Hexachloroethane	7.39	117	15051	2.514	ng	# 6
19) n-Nitroso-di-n-propylamine	7.44	70	56437	5.454	ng	# 78
22) Acetophenone	7.28	105	39975	2.355	ng	# 91
25) Isophorone	7.44	82	377253	14.587	ng	# 64
31) Naphthalene	8.20	128	6103168	167.687	ng	# 98
33) 4-Chloroaniline	8.20	127	913724	56.677	ng	# 35
37) 2-Methylnaphthalene	8.90	142	3355245	139.072	ng	# 97
38) 1-Methylnaphthalene	9.00	142	3022659	131.903	ng	# 99
46) 1,1'-Biphenyl	9.35	154	1164287	41.113	ng	# 100
47) 2-Chloronaphthalene	9.42	162	93779	3.977	ng	# 46
49) Acenaphthylene	9.79	152	1579272	45.200	ng	# 98
50) Dimethylphthalate	9.63	163	125280	4.597	ng	# 95
51) 2,6-Dinitrotoluene	9.62	165	24837	4.010	ng	# 1
52) Acenaphthene	9.96	154	586912	26.018	ng	# 90
55) Dibenzofuran	10.13	168	468054	14.611	ng	# 88
56) 4-Nitrophenol	10.03	139	18742	3.473	ng	# 35
57) 2,4-Dinitrotoluene	10.10	165	47276	5.892	ng	# 46
58) Fluorene	10.49	166	2388023	104.276	ng	# 99
62) 4-Nitroaniline	10.49	138	30069	4.429	ng	# 26
66) n-Nitrosodiphenylamine	10.58	169	38848	2.650	ng	# 1
71) Phenanthrene	11.47	178	6628160	274.378	ng	# 98
72) Anthracene	11.50	178	1984638	79.495	ng	# 98
73) Carbazole	11.64	167	159764	7.298	ng	# 98
75) Fluoranthene	12.65	202	3939363	154.318	ng	# 98
78) Pyrene	12.89	202	5592332	244.350	ng	# 97
81) Benzo(a)anthracene	14.06	228	3148240	176.904	ng	# 95
83) Chrysene	14.10	228	2805082	157.015	ng	# 93
86) Indeno(1,2,3-cd)pyrene	17.04	276	984887	64.890	ng	# 97
88) Benzo(b)fluoranthene	15.12	252	2917387	149.637	ng	# 98
89) Benzo(k)fluoranthene	15.12	252	2917387	167.838	ng	# 98
90) Benzo(a)pyrene	15.49	252	2054633	122.614	ng	# 96
91) Dibenzo(a,h)anthracene	17.04	278	322895	21.949	ng	# 93
92) Benzo(a,h,i)perylene	17.50	276	1114694	75.976	ng	# 97

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 14:03:52 2019
Response via : Initial Calibration

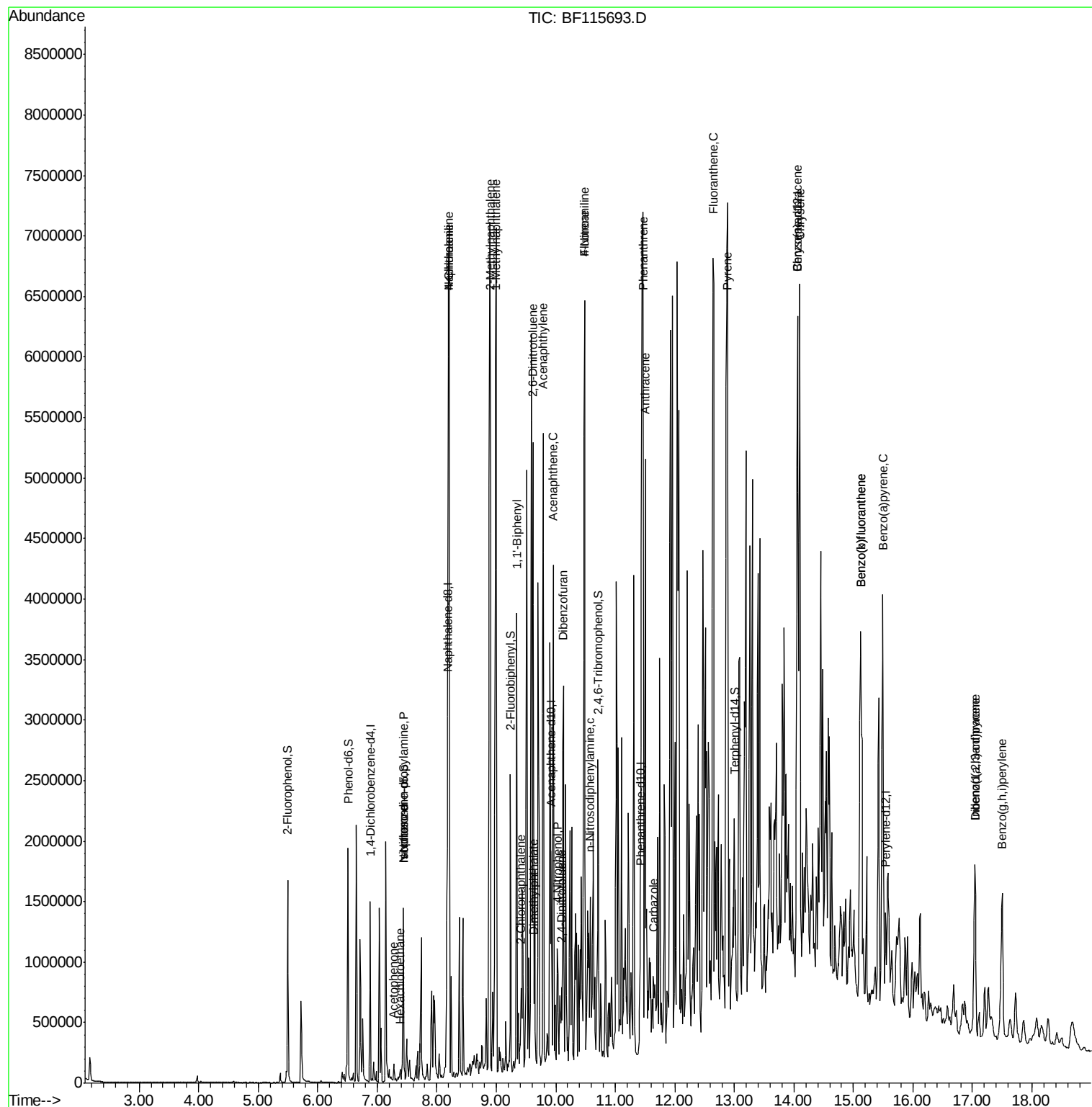
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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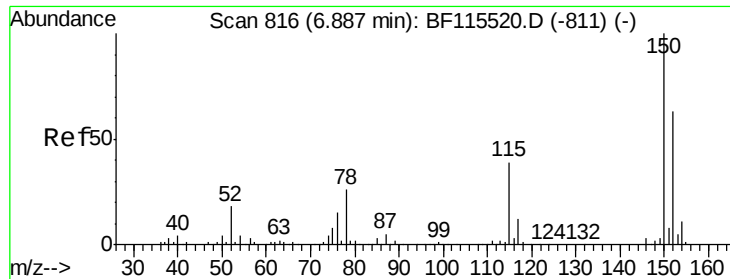
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115693.D
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Operator : HP/JU
Sample : K3887-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :

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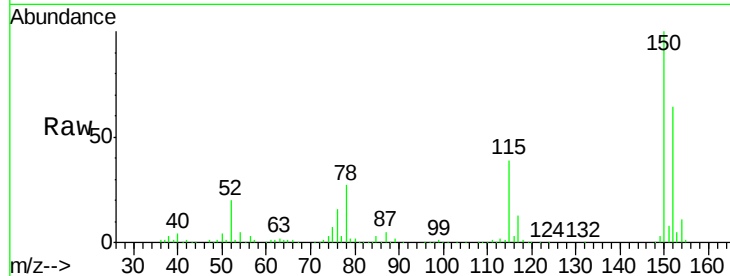


#1

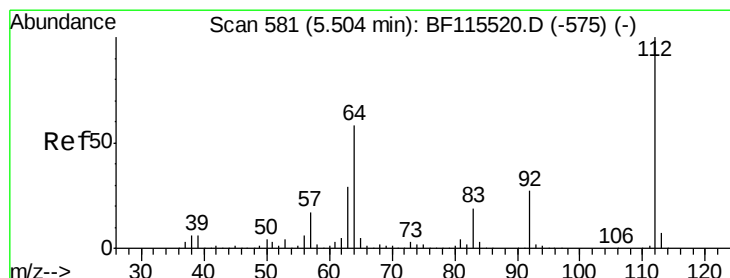
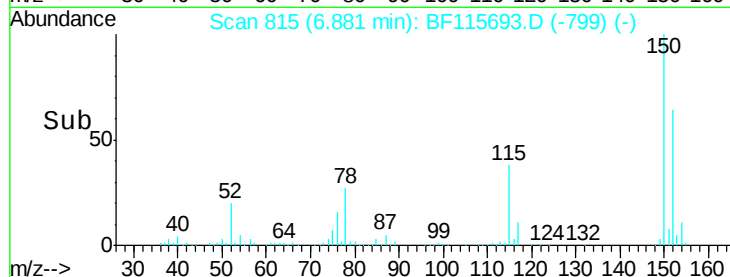
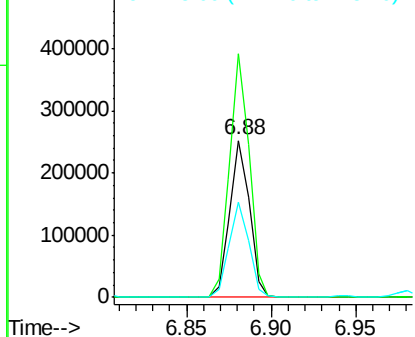
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 204527
Ion Ratio Lower Upper
152 100
150 155.5 129.7 194.5
115 61.2 48.2 72.4



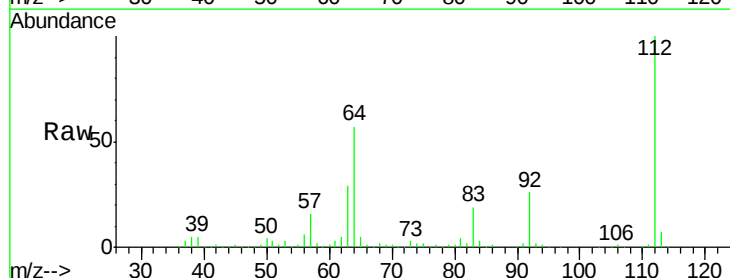
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



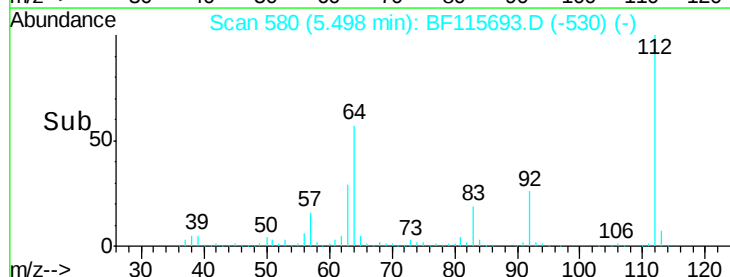
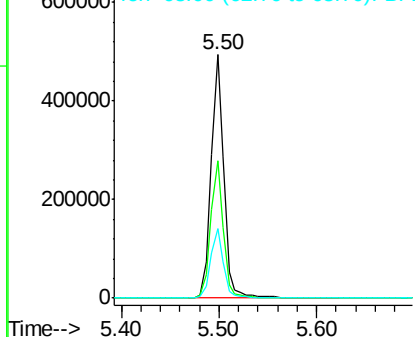
#5

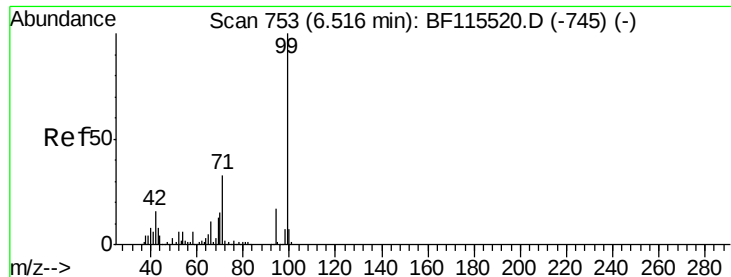
2-Fluorophenol
Concen: 35.833 ng
RT: 5.50 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:112 Resp: 448057
Ion Ratio Lower Upper
112 100
64 56.6 46.8 70.2
63 28.8 24.1 36.1



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 44.752 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampleId :

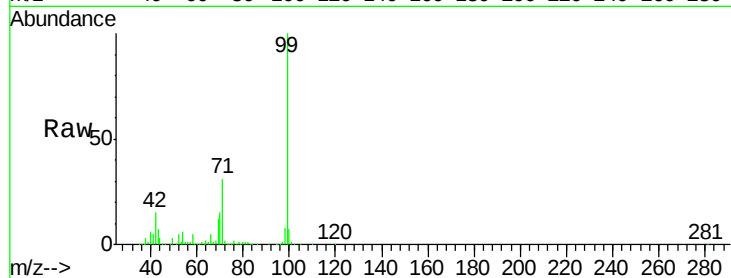
Tot Ion: 99 Resp: 710033

Ion Ratio Lower Upper

99 100

42 15.2 13.6 20.4

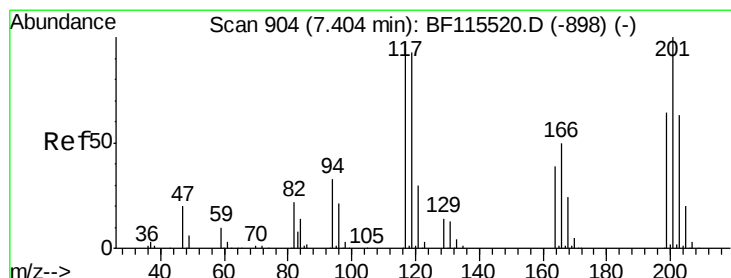
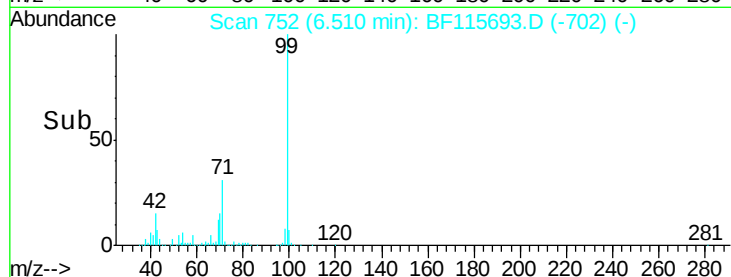
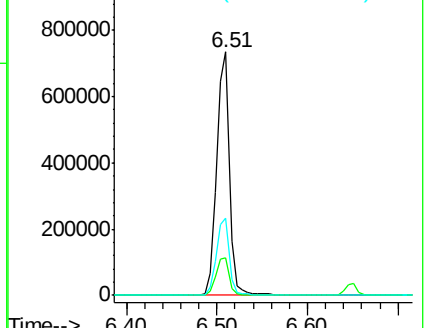
71 31.5 28.5 42.7



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#18

Hexachloroethane

Concen: 2.514 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.02 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

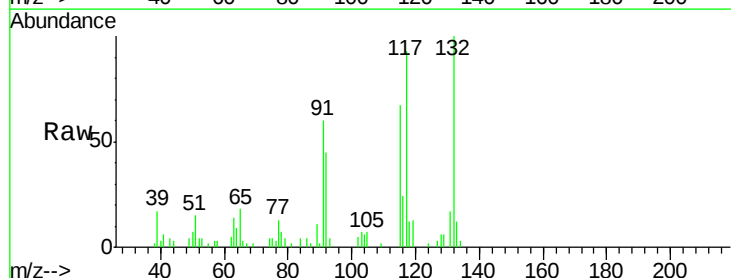
Tgt Ion: 117 Resp: 15051

Ion Ratio Lower Upper

117 100

119 13.9 77.7 116.5#

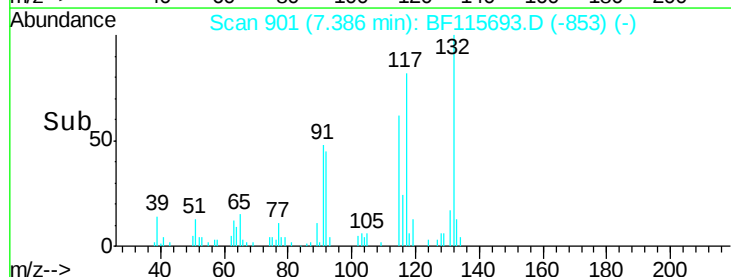
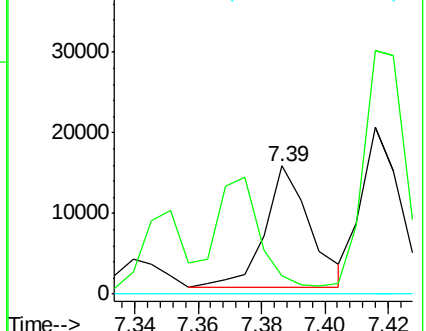
201 0.0 86.0 129.0#

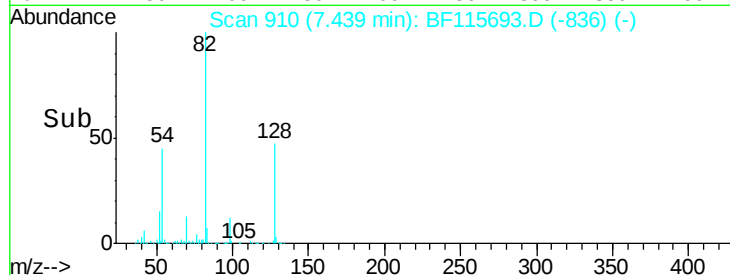
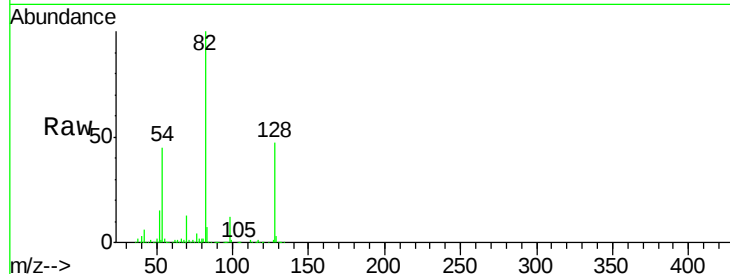
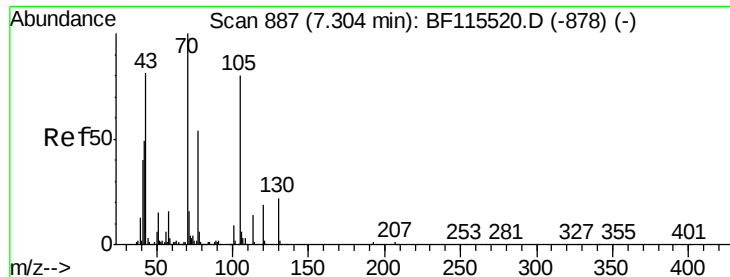


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

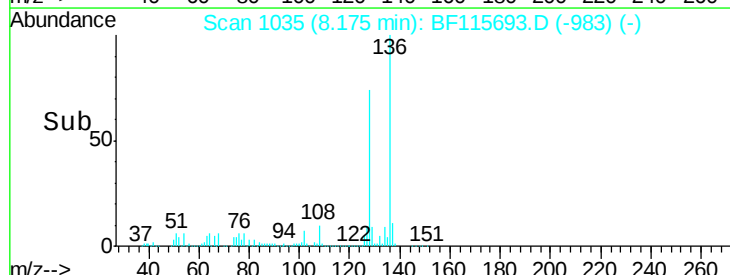
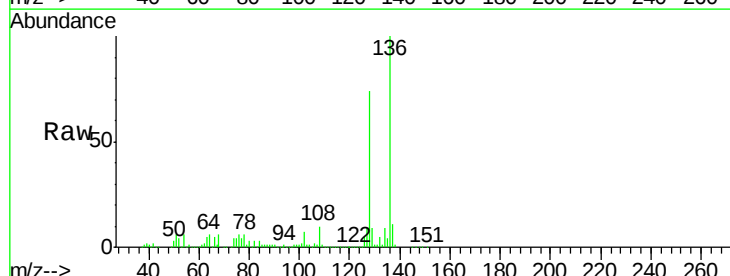
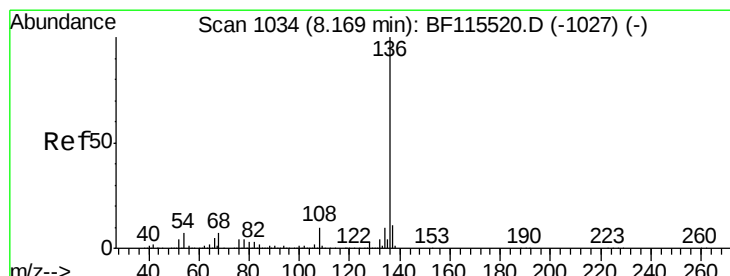
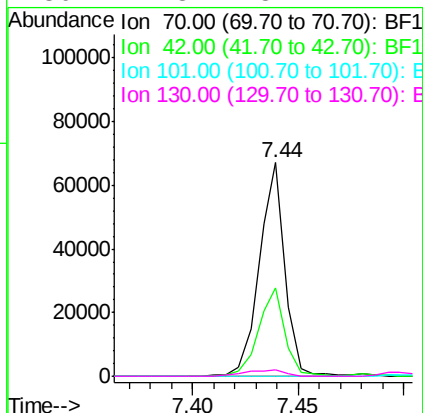




#19
n-Nitroso-di-n-propylamine
Concen: 5.454 ng
RT: 7.44 min Scan# 910
Delta R.T. 0.14 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

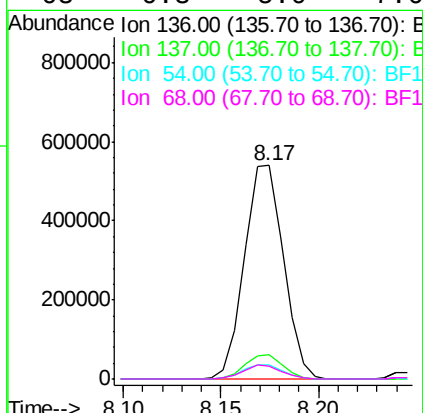
Instrument :
BNA_F
ClientSampleId :

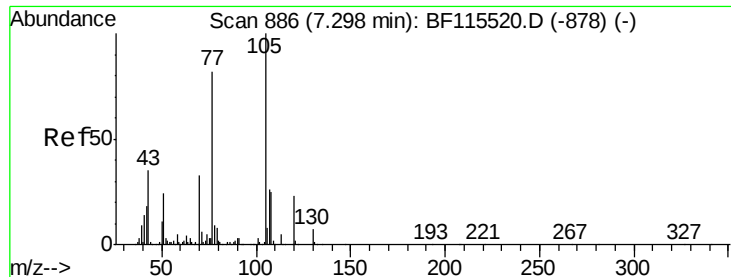
Tot Ion:	70	Resp:	56437
Ion Ratio	Lower	Upper	
70	100		
42	41.4	39.6	59.4
101	0.0	8.1	12.1#
130	2.8	18.2	27.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1035
Delta R.T. 0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:	136	Resp:	751518
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.0	13.4
54	6.5	5.6	8.4
68	6.3	5.0	7.6





#22

Acetophenone

Concen: 2.355 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampleId :

Tot Ion:105 Resp: 39975

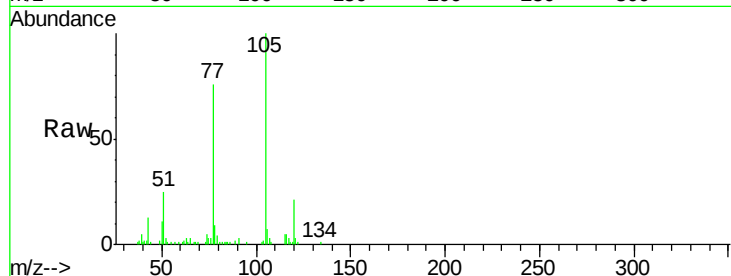
Ion Ratio Lower Upper

105 100

71 0.0 3.5 5.3#

51 25.3 25.6 38.4#

120 20.6 17.9 26.9

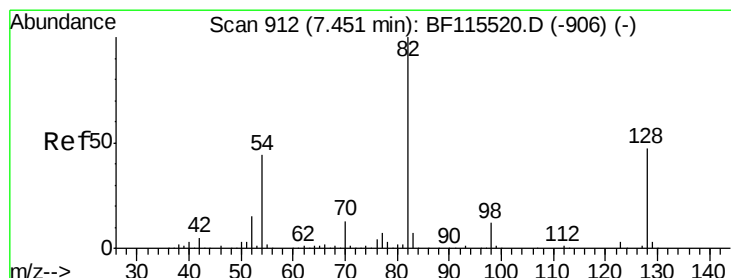
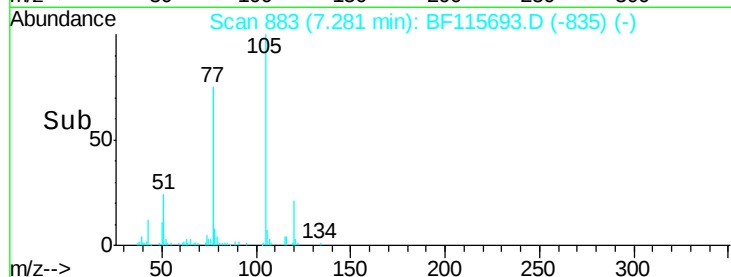
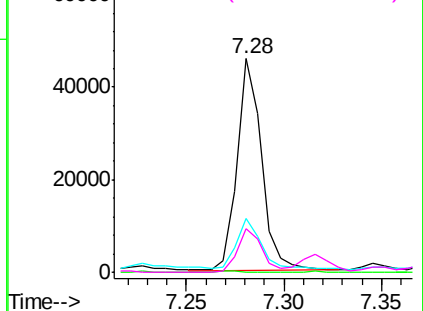


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 33.057 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

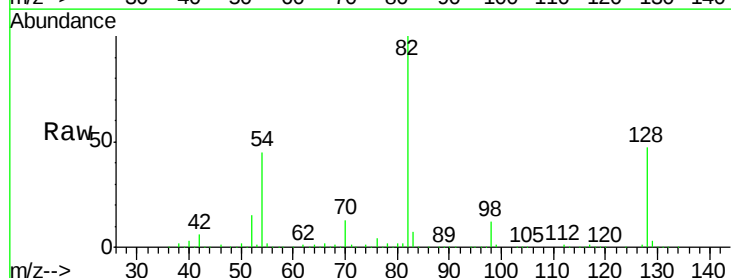
Tgt Ion: 82 Resp: 427251

Ion Ratio Lower Upper

82 100

128 47.1 38.6 57.8

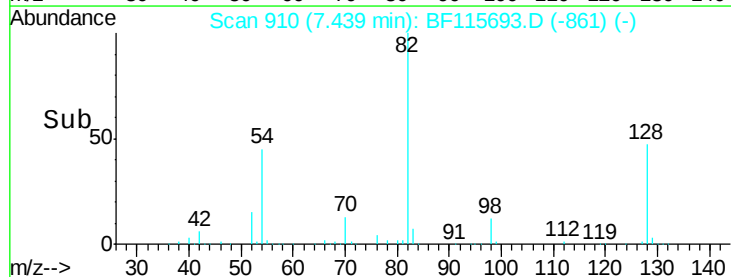
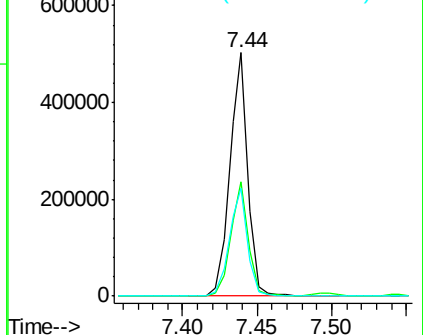
54 44.6 35.6 53.4

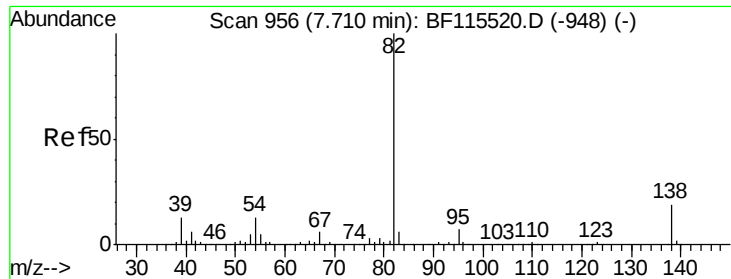


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 14.587 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.27 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampleId :

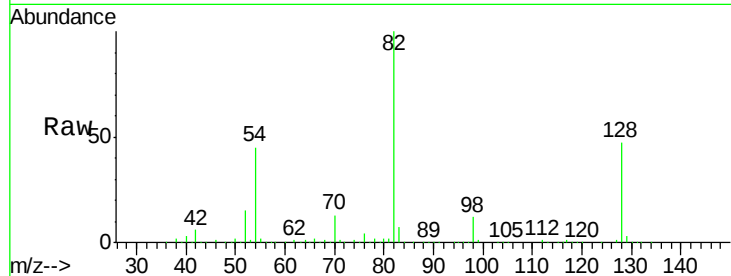
Tot Ion: 82 Resp: 377253

Ion Ratio Lower Upper

82 100

95 0.1 5.5 8.3#

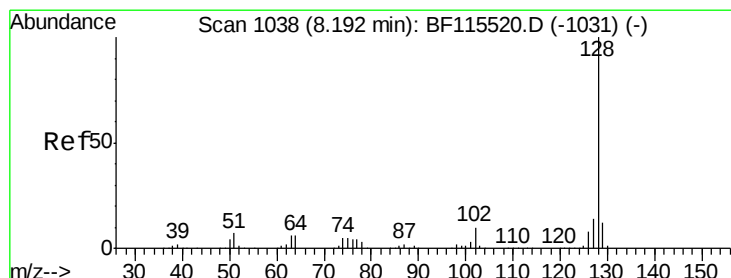
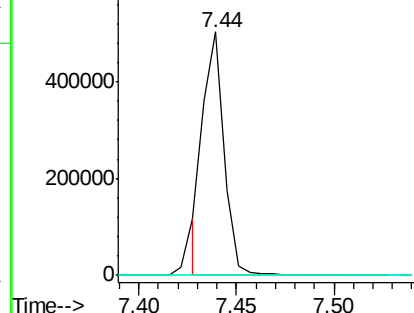
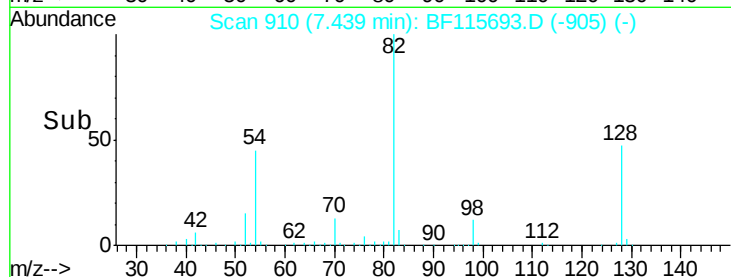
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#31

Naphthalene

Concen: 167.687 ng

RT: 8.20 min Scan# 1040

Delta R.T. 0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

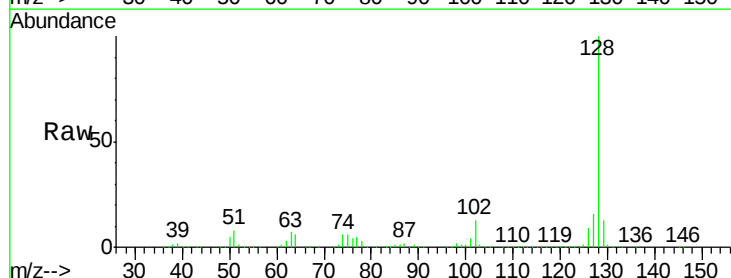
Tgt Ion: 128 Resp: 6103168

Ion Ratio Lower Upper

128 100

129 13.1 9.9 14.9

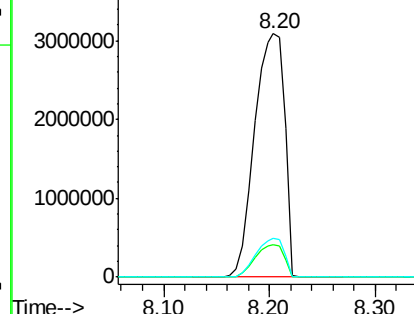
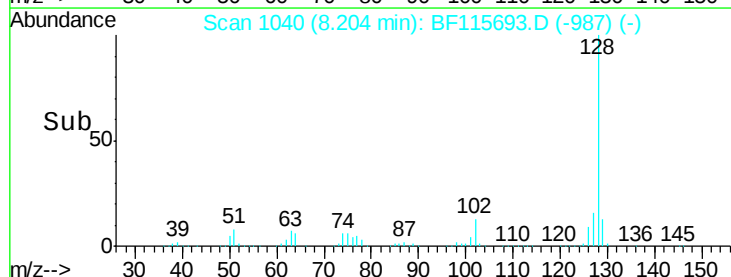
127 15.8 12.1 18.1

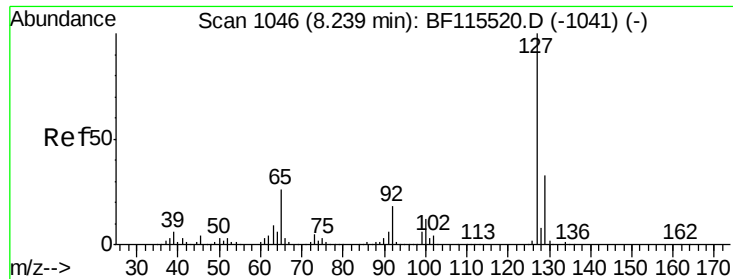


Abundance Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1

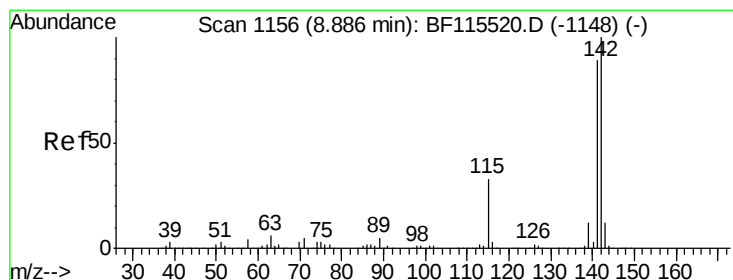
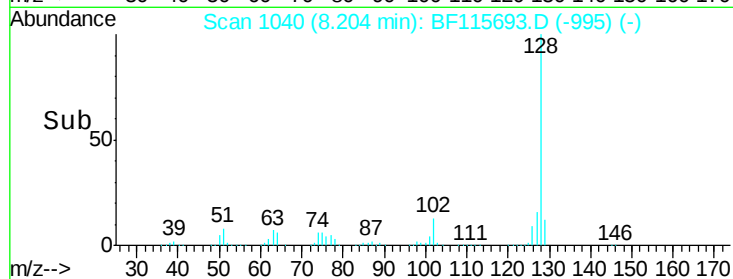
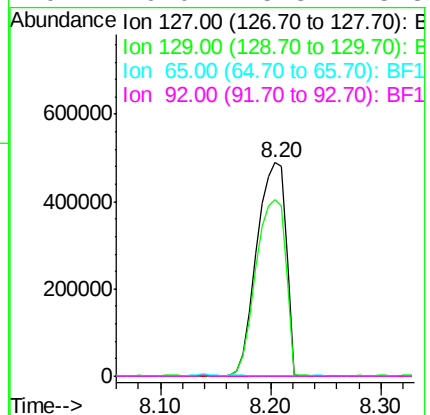
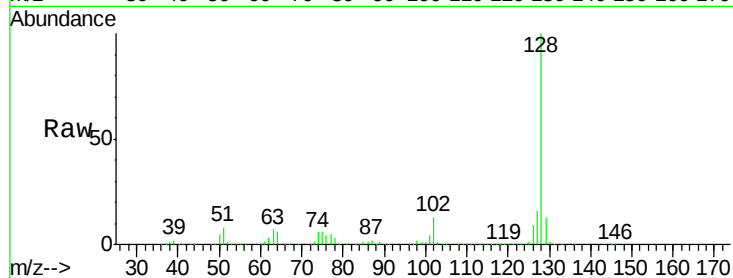




#33
4-Chloroaniline
Concen: 56.677 ng
RT: 8.20 min Scan# 1040
Delta R.T. -0.04 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

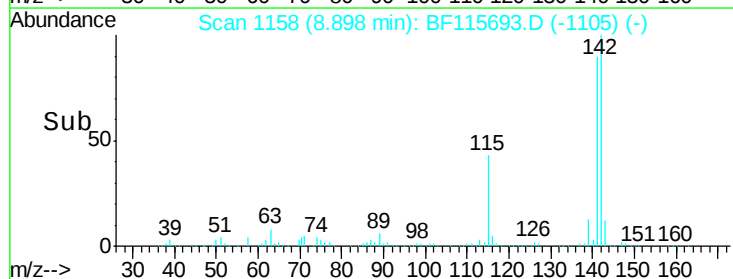
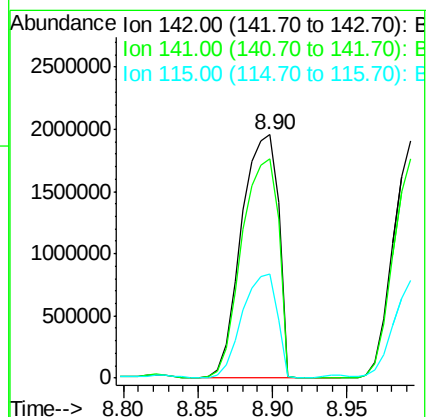
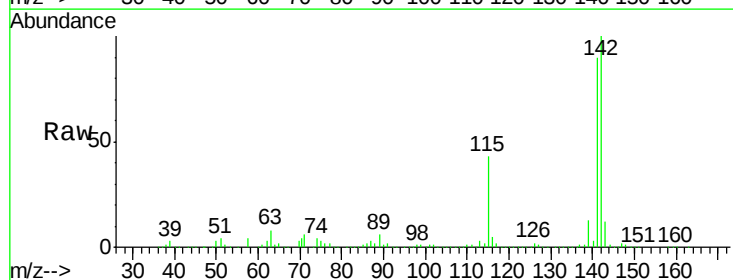
Instrument :
BNA_F
ClientSampleId :

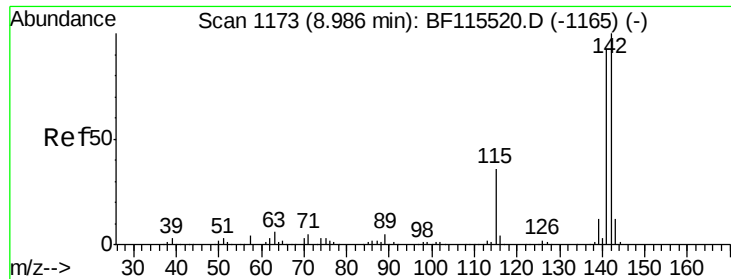
Tot Ion:127 Resp: 913724
Ion Ratio Lower Upper
127 100
129 82.6 26.6 39.8#
65 0.0 23.7 35.5#
92 0.0 15.8 23.8#



#37
2-Methylnaphthalene
Concen: 139.072 ng
RT: 8.90 min Scan# 1158
Delta R.T. 0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:142 Resp: 3355245
Ion Ratio Lower Upper
142 100
141 89.8 72.0 108.0
115 42.7 29.9 44.9

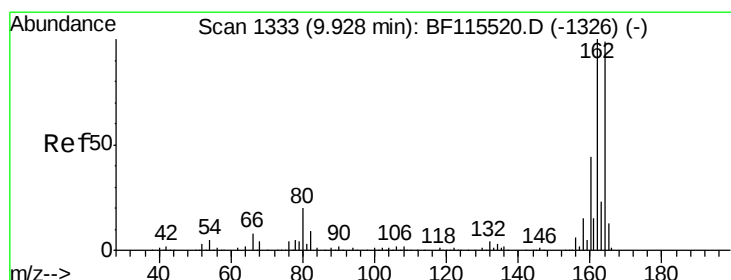
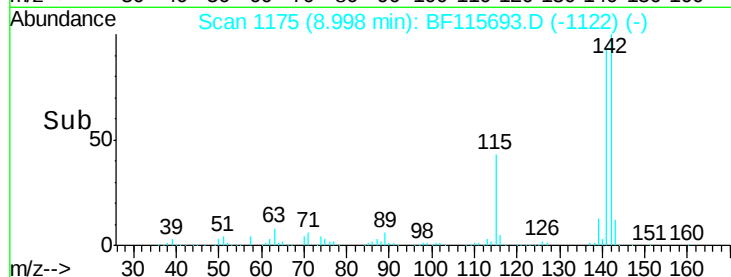
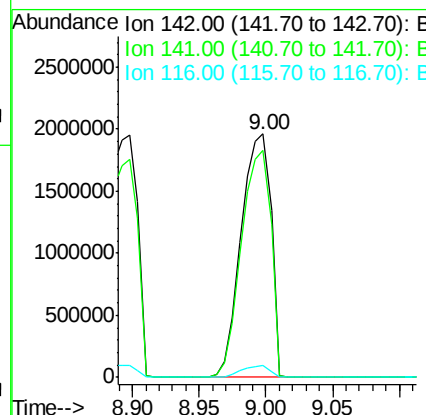
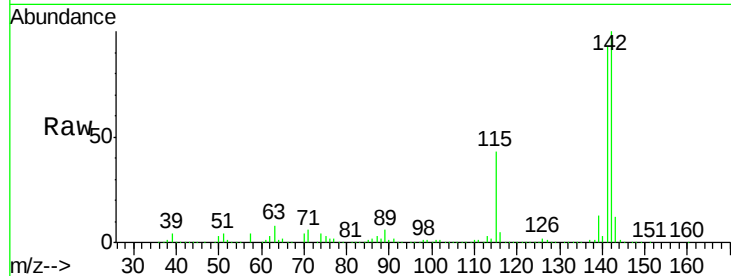




#38
1-Methylnaphthalene
Concen: 131.903 ng
RT: 9.00 min Scan# 1175
Delta R.T. 0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

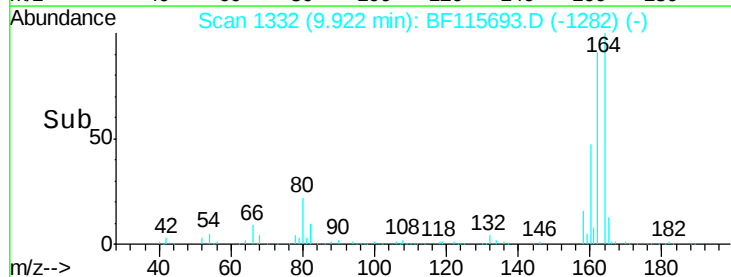
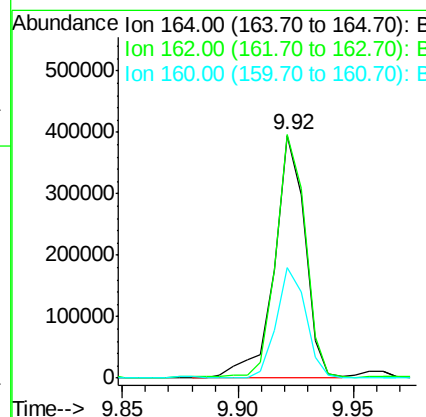
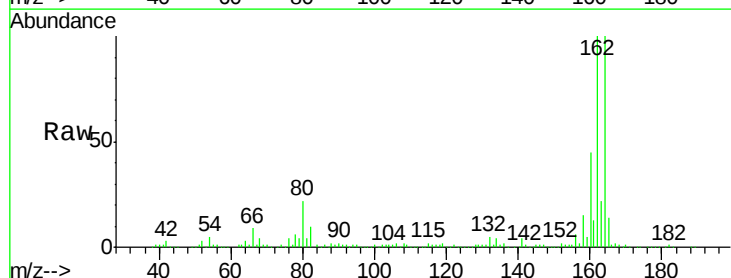
Instrument :
BNA_F
ClientSampled :

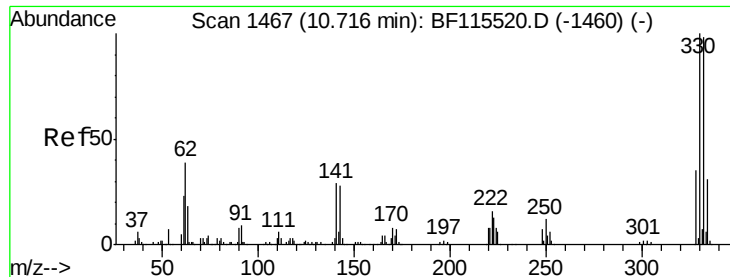
Tot Ion:142 Resp: 3022659
Ion Ratio Lower Upper
142 100
141 93.3 75.3 112.9
116 4.7 3.3 4.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:164 Resp: 362234
Ion Ratio Lower Upper
164 100
162 100.4 82.9 124.3
160 45.5 36.8 55.2





#42

2,4,6-Tribromophenol

Concen: 31.751 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampled :

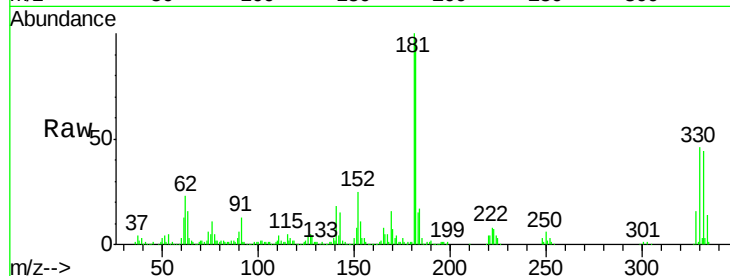
Tot Ion:330 Resp: 134247

Ion Ratio Lower Upper

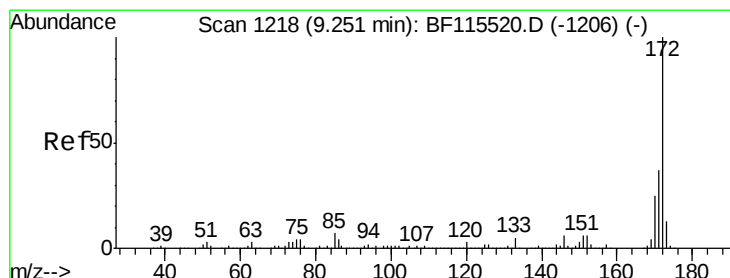
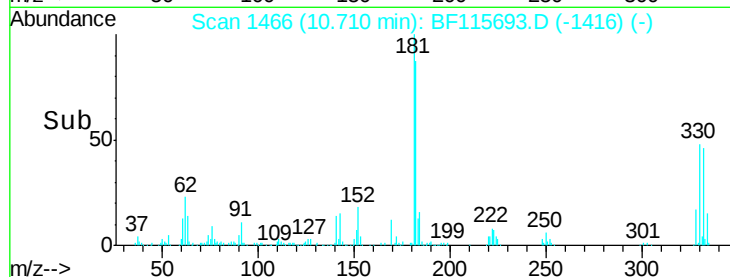
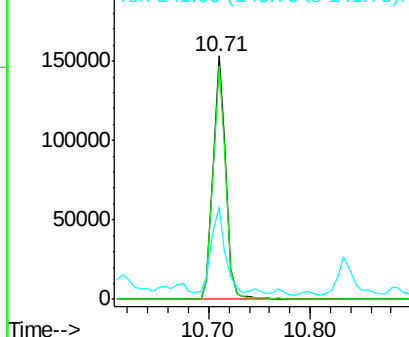
330 100

332 95.8 77.4 116.2

141 41.2 22.4 33.6#



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 31.186 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

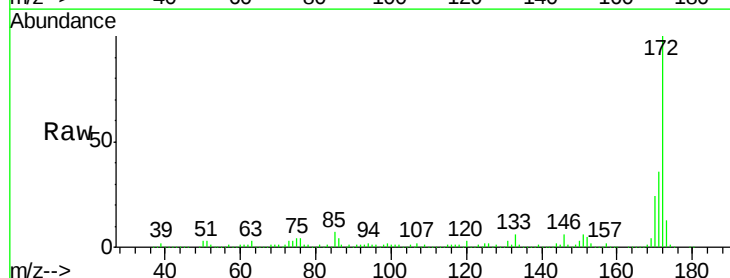
Tgt Ion:172 Resp: 645420

Ion Ratio Lower Upper

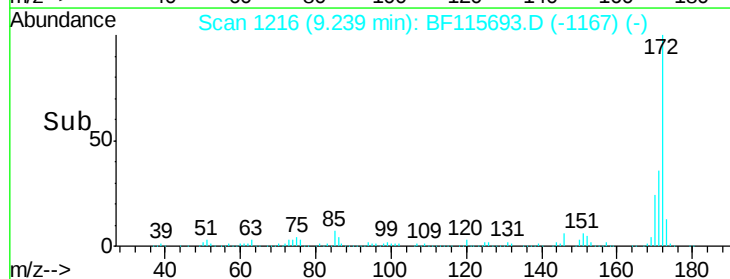
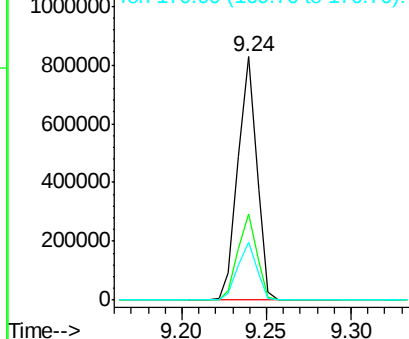
172 100

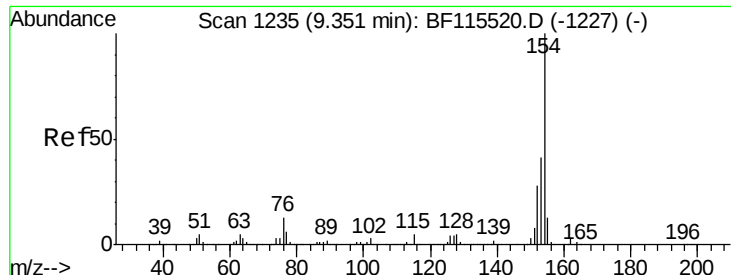
171 35.6 30.6 46.0

170 23.9 20.5 30.7



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

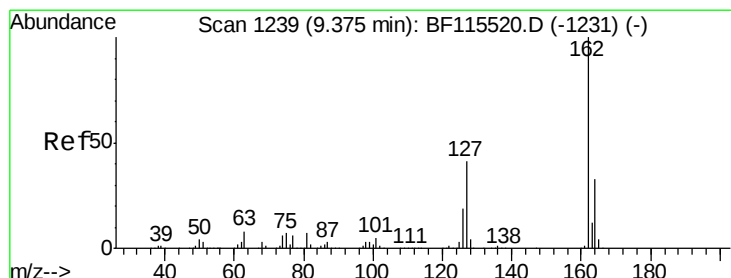
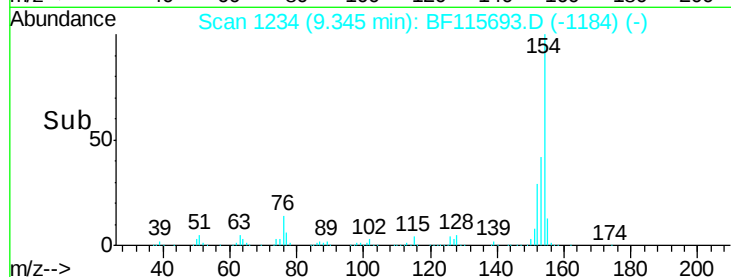
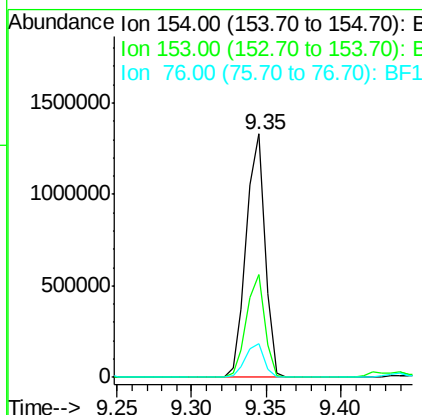
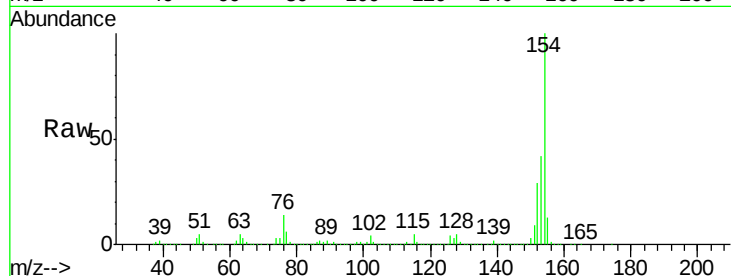




#46
 1,1'-Biphenyl
 Concen: 41.113 ng
 RT: 9.35 min Scan# 1234
 Delta R.T. -0.01 min
 Lab File: BF115693.D
 Acq: 20 Jul 2019 1:03

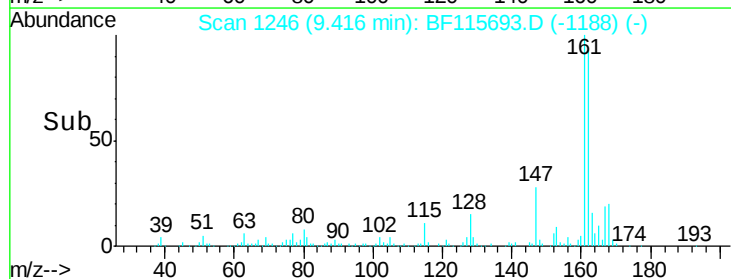
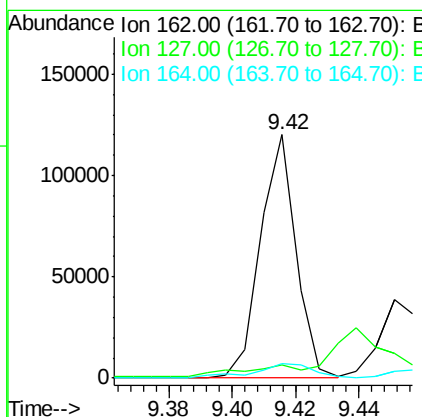
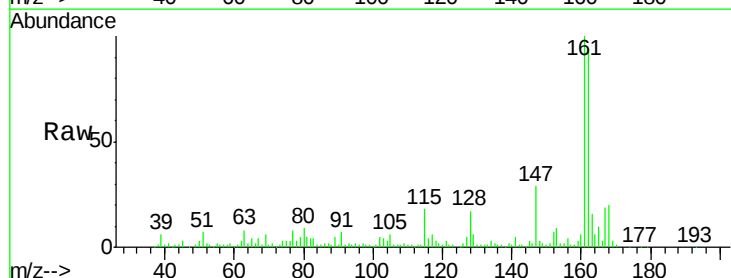
Instrument :
 BNA_F
 ClientSampleId :

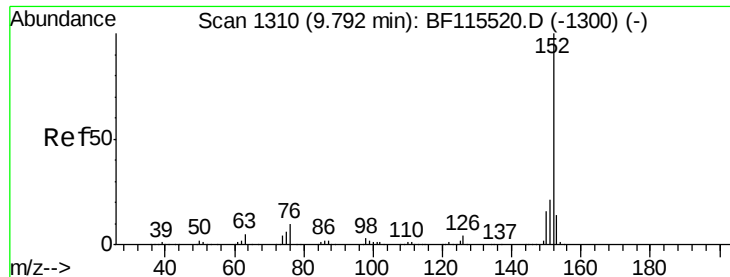
Tot Ion:154 Resp: 1164287
 Ion Ratio Lower Upper
 154 100
 153 42.3 22.6 62.6
 76 13.6 0.0 33.4



#47
 2-Chloronaphthalene
 Concen: 3.977 ng
 RT: 9.42 min Scan# 1246
 Delta R.T. 0.04 min
 Lab File: BF115693.D
 Acq: 20 Jul 2019 1:03

Tgt Ion:162 Resp: 93779
 Ion Ratio Lower Upper
 162 100
 127 5.3 34.1 51.1#
 164 6.1 27.4 41.2#





#49

Acenaphthylene

Concen: 45.200 ng

RT: 9.79 min Scan# 1310

Delta R.T. 0.00 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

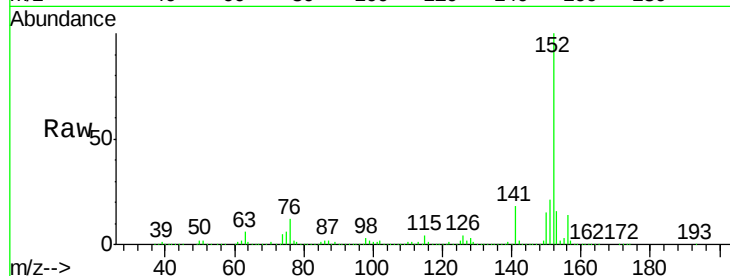
Instrument :

BNA_F

ClientSampleId :

Tot Ion:152 Resp: 1579272

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.7	26.5
153	16.0	12.0	18.0

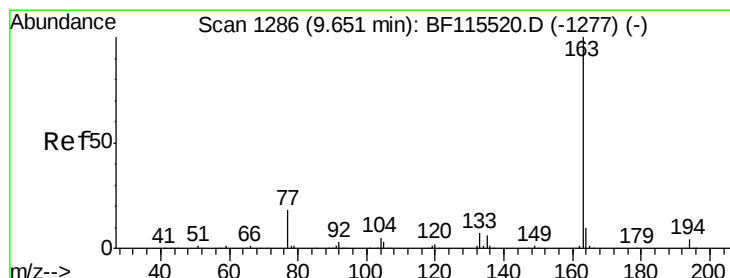
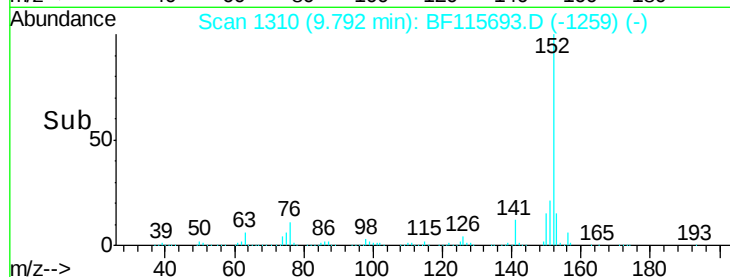
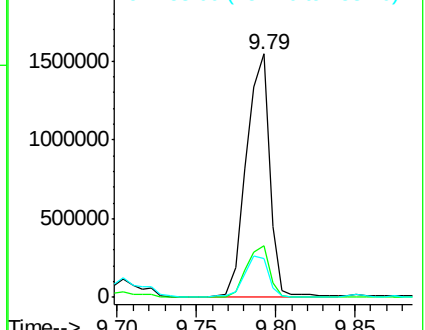


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 4.597 ng

RT: 9.63 min Scan# 1283

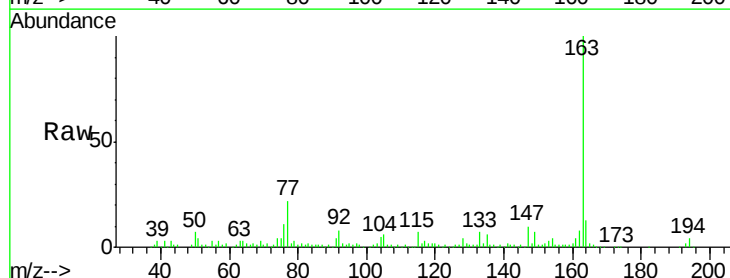
Delta R.T. -0.02 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Tgt Ion:163 Resp: 125280

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	13.2	8.7	13.1#

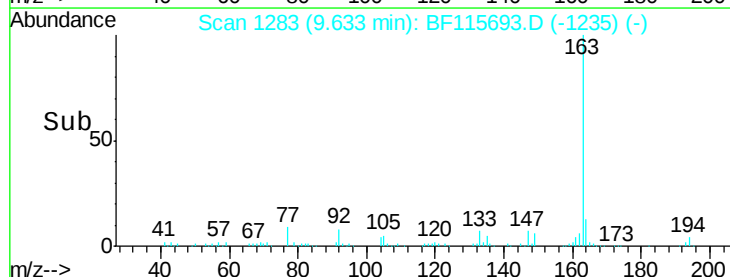
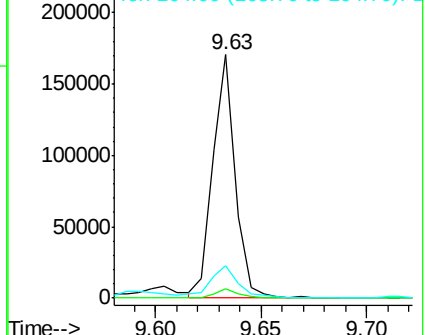


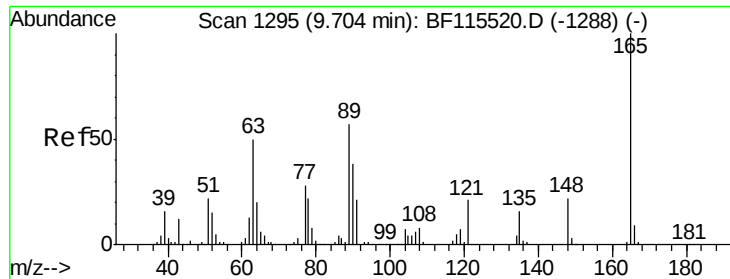
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 4.010 ng

RT: 9.62 min Scan# 1280

Delta R.T. -0.09 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampleId :

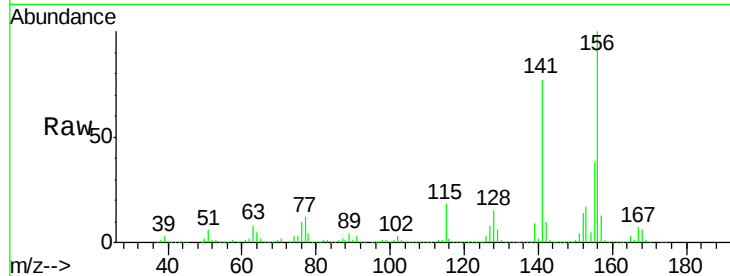
Tot Ion:165 Resp: 24837

Ion Ratio Lower Upper

165 100

63 284.5 40.6 61.0#

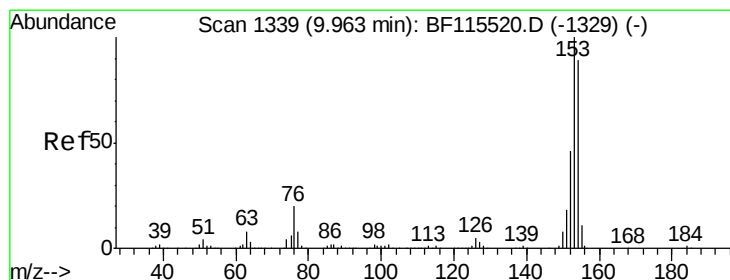
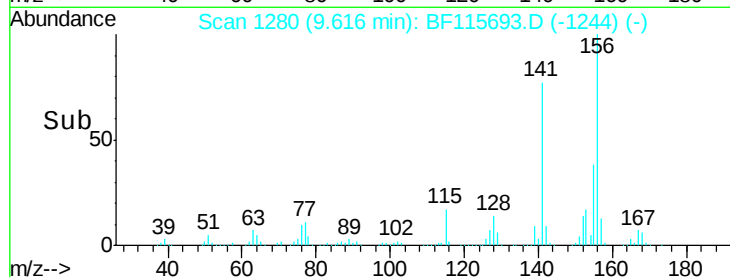
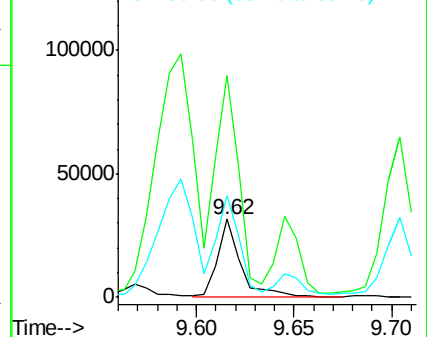
89 130.7 43.9 65.9#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#52

Acenaphthene

Concen: 26.018 ng

RT: 9.96 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

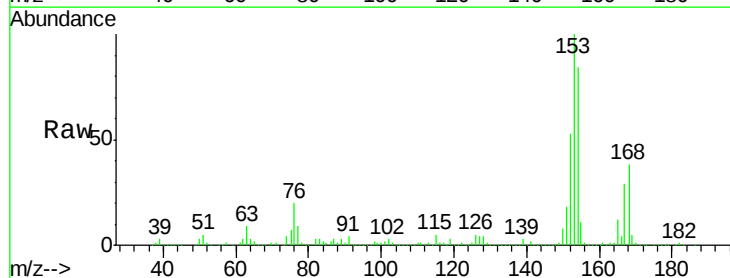
Tgt Ion:154 Resp: 586912

Ion Ratio Lower Upper

154 100

153 119.1 88.6 133.0

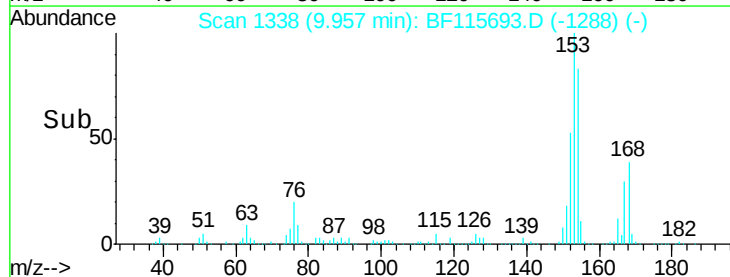
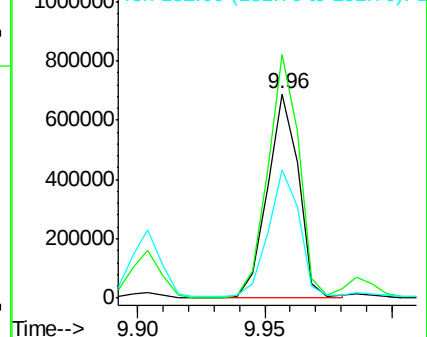
152 63.0 42.3 63.5

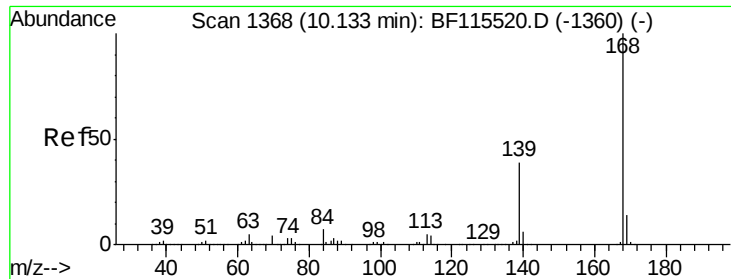


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

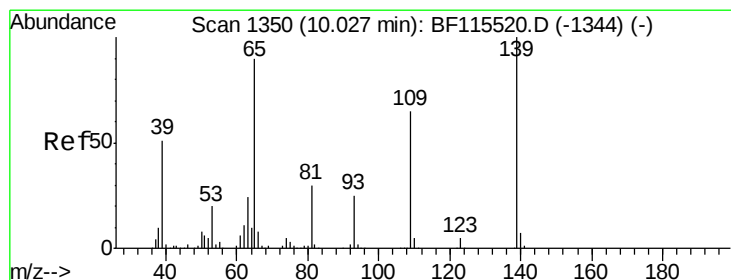
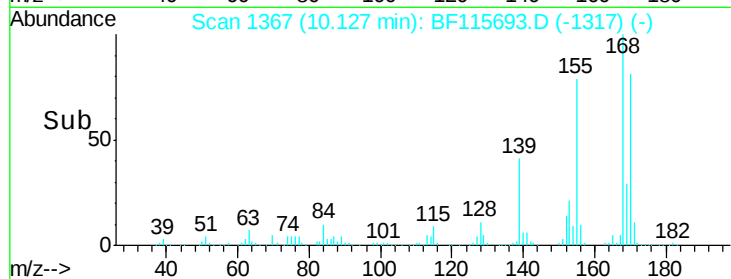
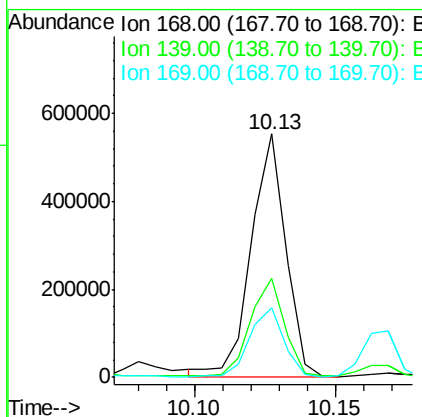
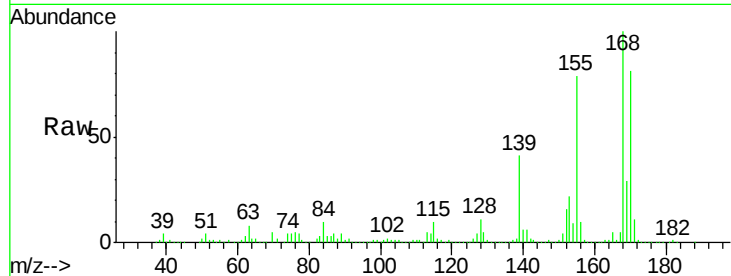




#55
Dibenzofuran
Concen: 14.611 ng
RT: 10.13 min Scan# 1367
Delta R.T. -0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

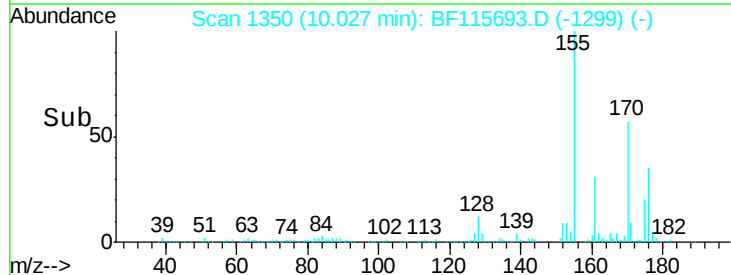
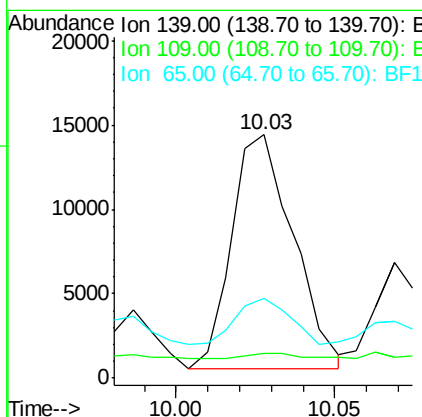
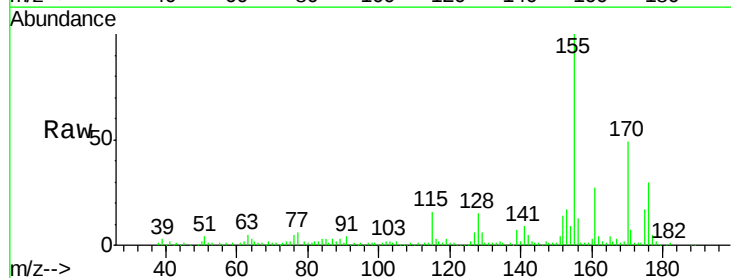
Instrument :
BNA_F
ClientSampleId :

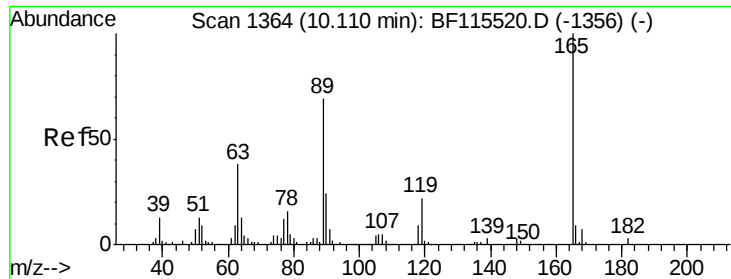
Tot Ion:168 Resp: 468054
Ion Ratio Lower Upper
168 100
139 40.8 31.1 46.7
169 28.6 11.1 16.7#



#56
4-Nitrophenol
Concen: 3.473 ng
RT: 10.03 min Scan# 1350
Delta R.T. 0.00 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:139 Resp: 18742
Ion Ratio Lower Upper
139 100
109 10.0 46.4 86.4#
65 32.8 68.9 108.9#

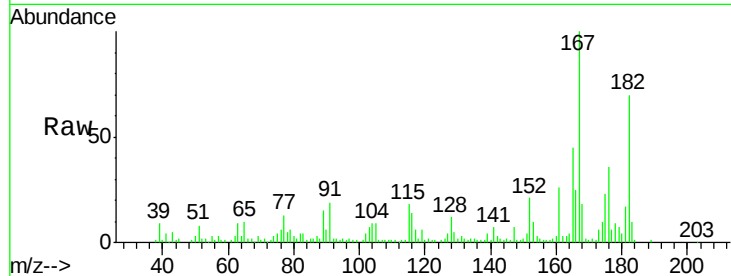




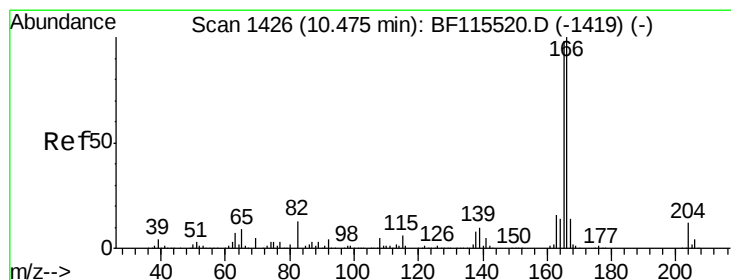
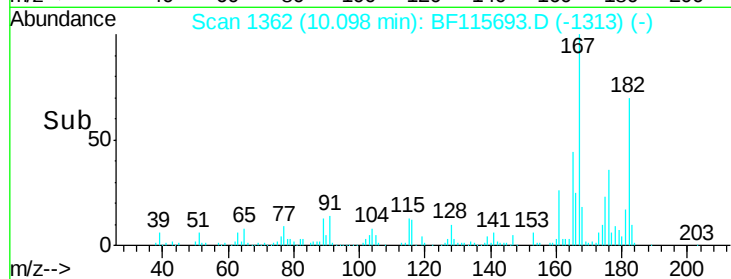
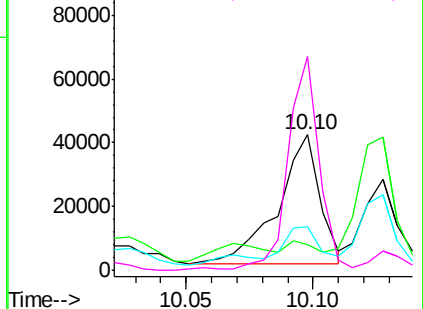
#57
2,4-Dinitrotoluene
Concen: 5.892 ng
RT: 10.10 min Scan# 1362
Delta R.T. -0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 47276
Ion Ratio Lower Upper
165 100
63 19.2 34.9 52.3#
89 32.6 57.5 86.3#
182 157.7 2.2 3.4#

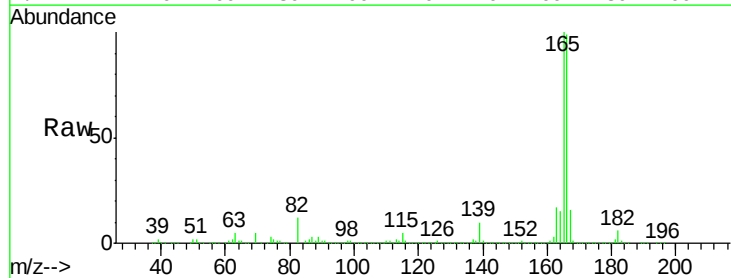


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

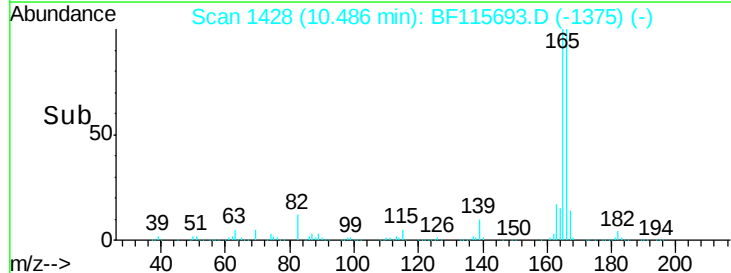
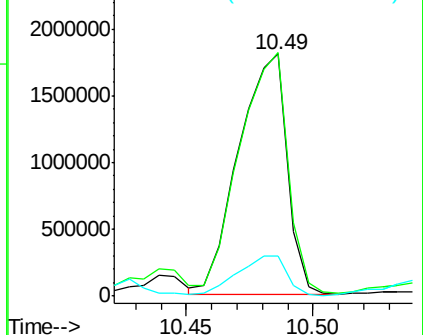


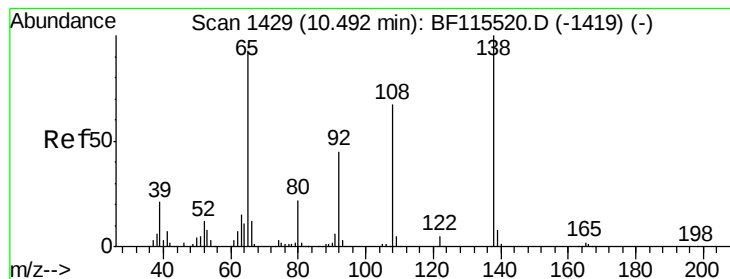
#58
Fluorene
Concen: 104.276 ng
RT: 10.49 min Scan# 1428
Delta R.T. 0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:166 Resp: 2388023
Ion Ratio Lower Upper
166 100
165 100.5 79.8 119.6
167 16.5 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#62

4-Nitroaniline

Concen: 4.429 ng

RT: 10.49 min Scan# 1428

Delta R.T. -0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampleId :

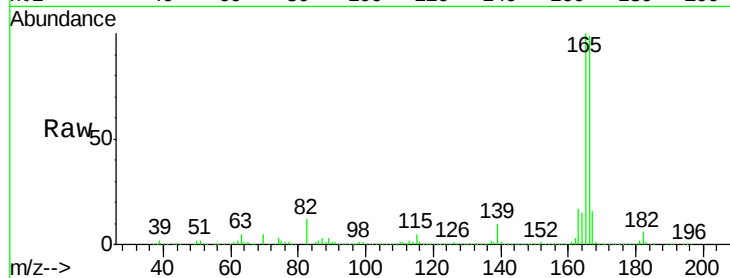
Tot Ion:138 Resp: 30069

Ion Ratio Lower Upper

138 100

92 4.5 27.1 67.1#

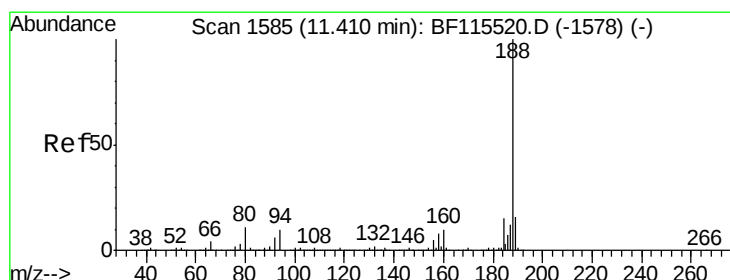
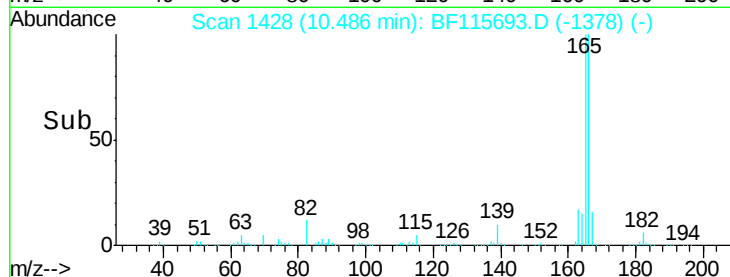
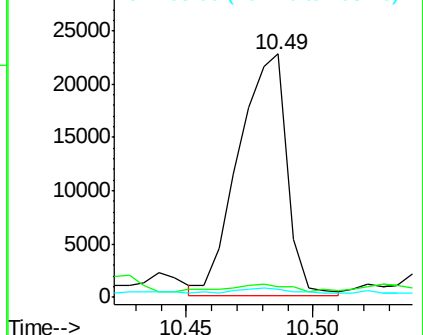
108 3.1 48.0 88.0#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF1

Ion 108.00 (107.70 to 108.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1586

Delta R.T. 0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

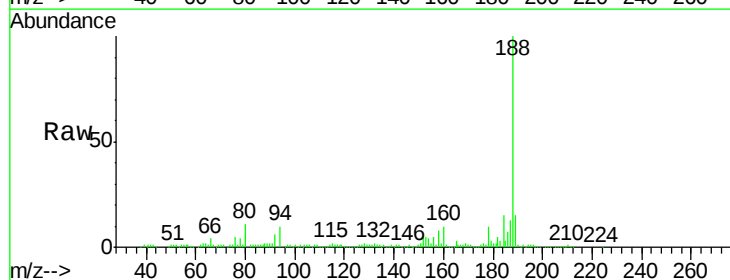
Tgt Ion:188 Resp: 471274

Ion Ratio Lower Upper

188 100

94 9.8 7.8 11.6

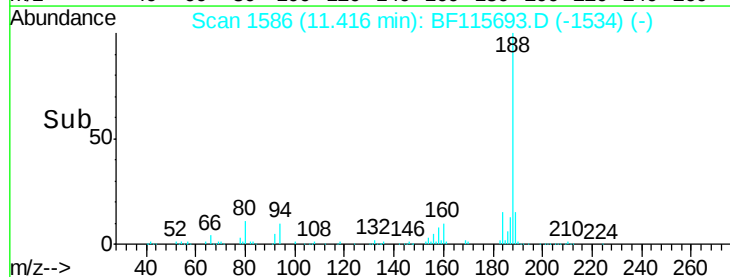
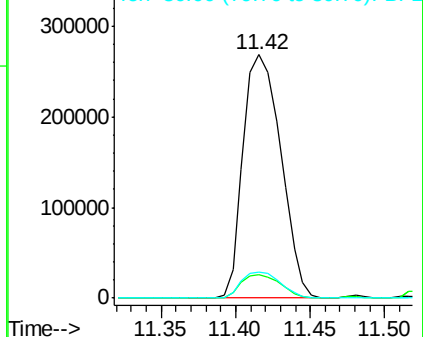
80 10.8 8.6 13.0

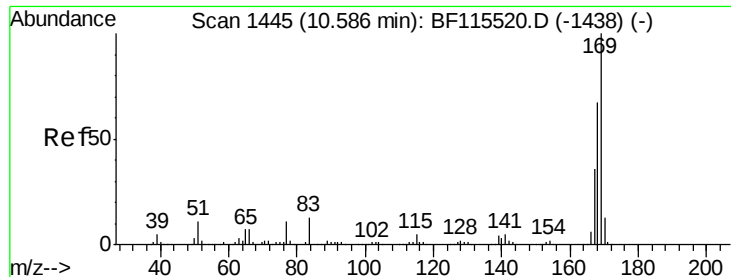


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

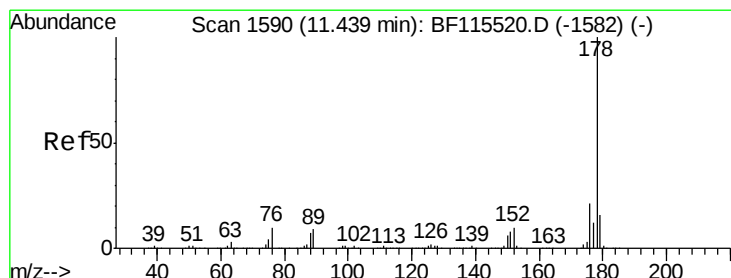
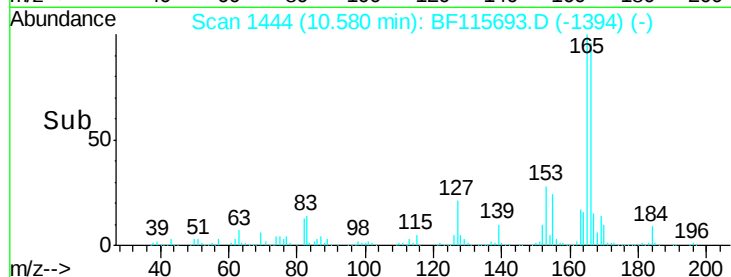
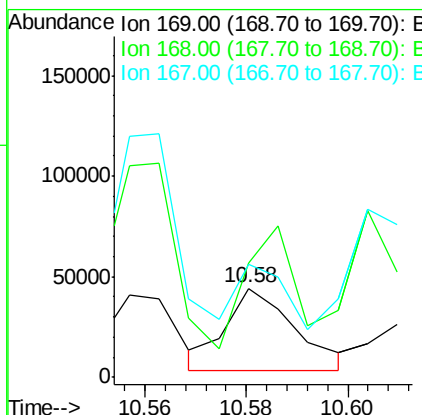
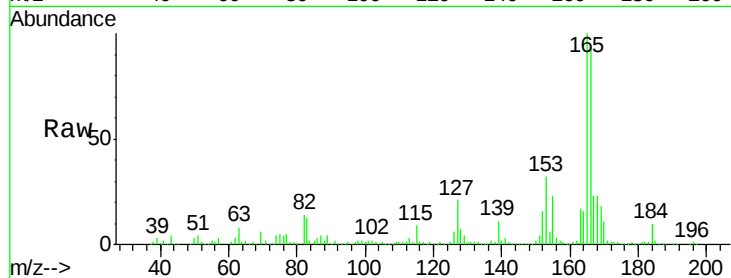




#66
n-Nitrosodiphenylamine
Concen: 2.650 ng
RT: 10.58 min Scan# 1444
Delta R.T. -0.01 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

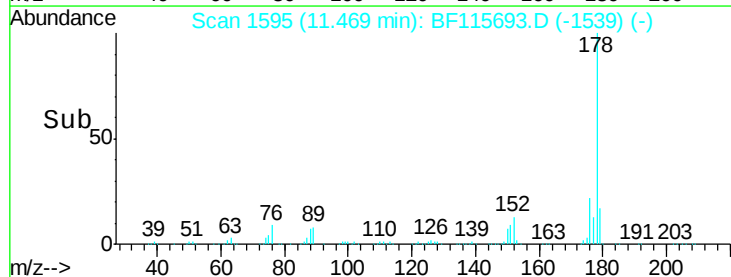
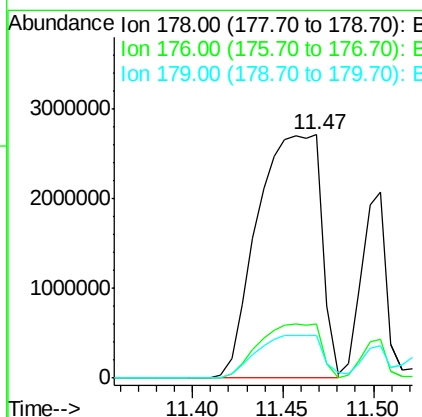
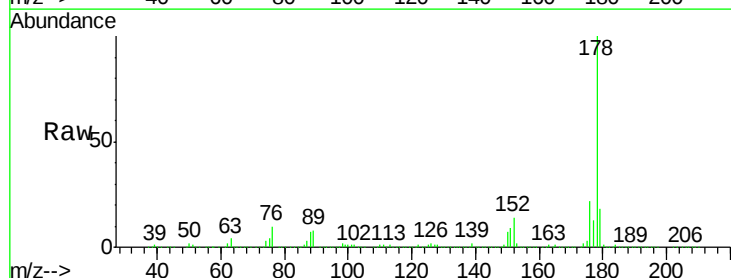
Instrument :
BNA_F
ClientSampleId :

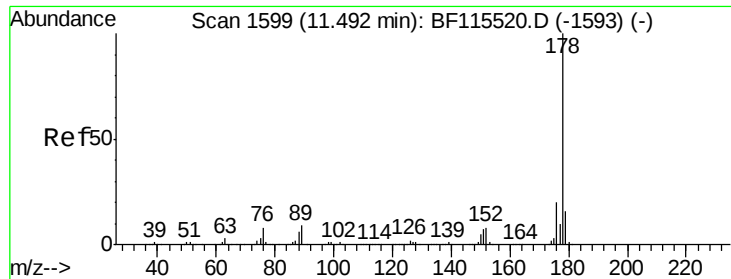
Tot Ion:169 Resp: 38848
Ion Ratio Lower Upper
169 100
168 128.6 54.3 81.5#
167 127.4 30.2 45.2#



#71
Phenanthrene
Concen: 274.378 ng
RT: 11.47 min Scan# 1595
Delta R.T. 0.03 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:178 Resp: 6628160
Ion Ratio Lower Upper
178 100
176 22.5 17.2 25.8
179 17.5 13.5 20.3





#72

Anthracene

Concen: 79.495 ng

RT: 11.50 min Scan# 1601

Delta R.T. 0.01 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampleId :

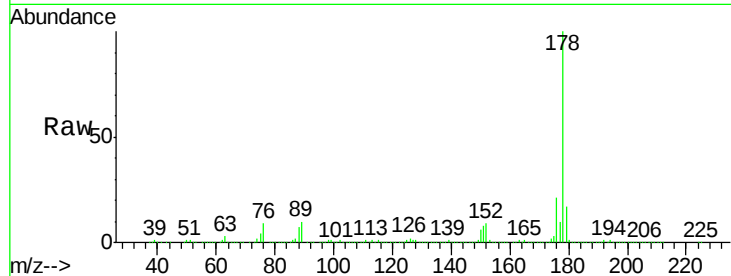
Tot Ion:178 Resp: 1984638

Ion Ratio Lower Upper

178 100

176 20.8 15.9 23.9

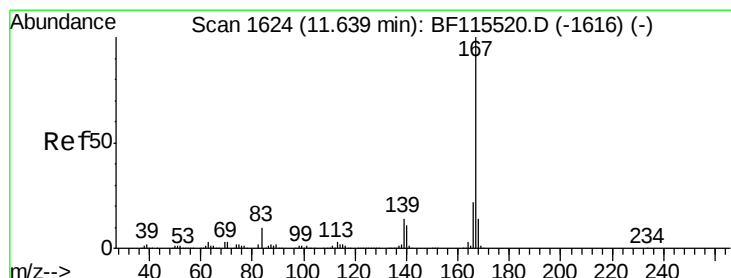
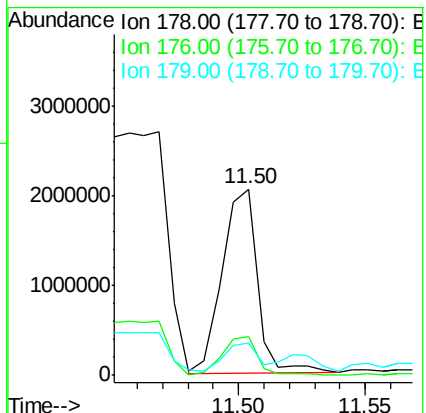
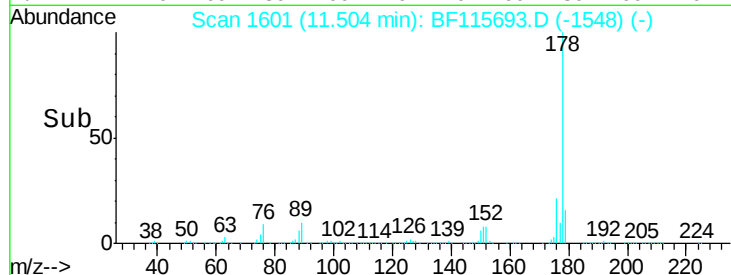
179 17.0 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 7.298 ng

RT: 11.64 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

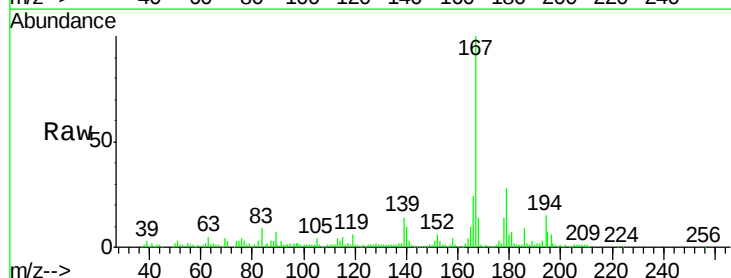
Tgt Ion:167 Resp: 159764

Ion Ratio Lower Upper

167 100

166 24.2 18.1 27.1

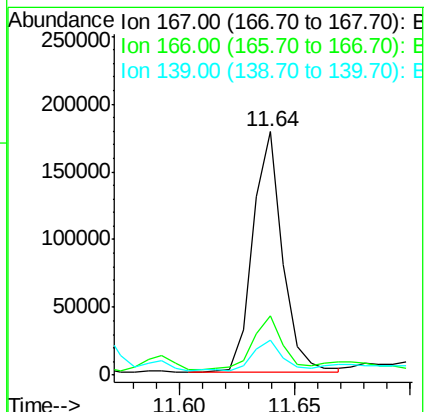
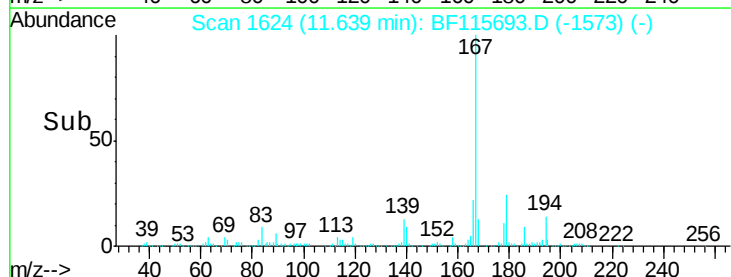
139 14.3 11.3 16.9

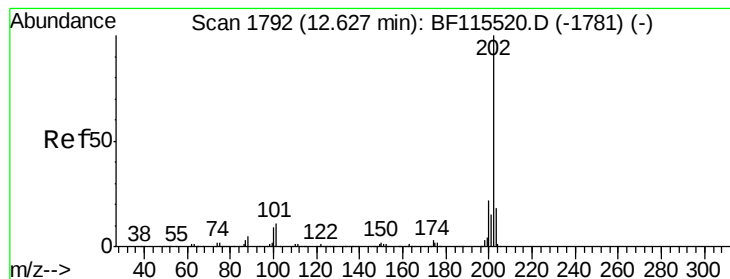


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 154.318 ng

RT: 12.65 min Scan# 1796

Delta R.T. 0.02 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampleId :

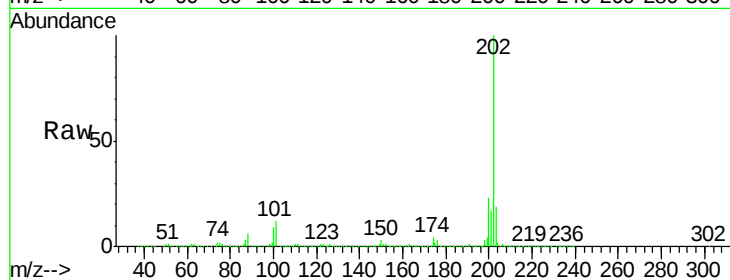
Tot Ion:202 Resp: 3939363

Ion Ratio Lower Upper

202 100

101 12.0 0.0 31.4

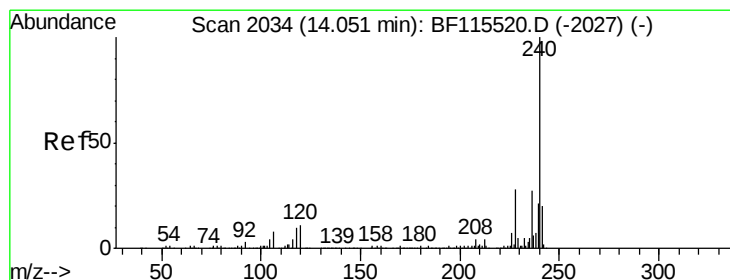
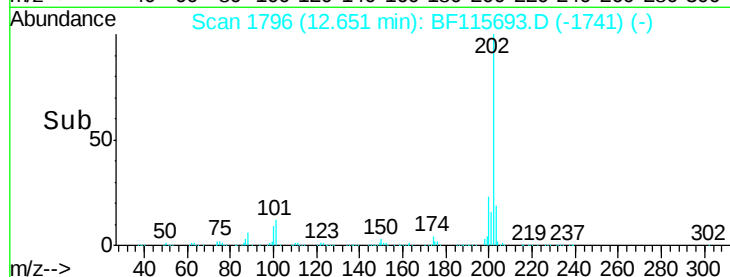
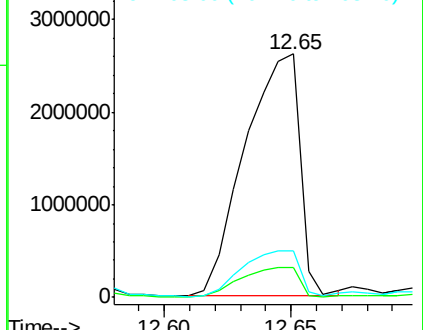
203 19.1 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.02 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

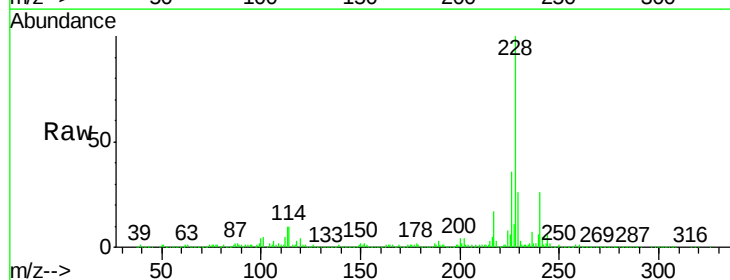
Tgt Ion:240 Resp: 270132

Ion Ratio Lower Upper

240 100

120 14.1 8.6 13.0#

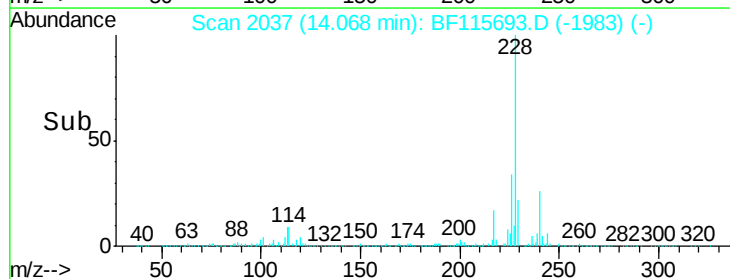
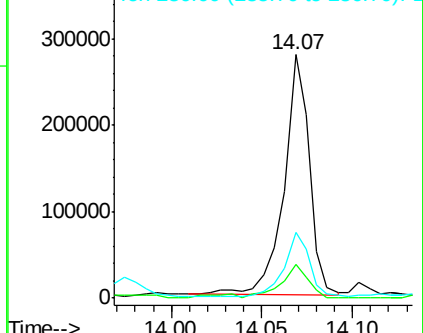
236 26.8 21.3 31.9

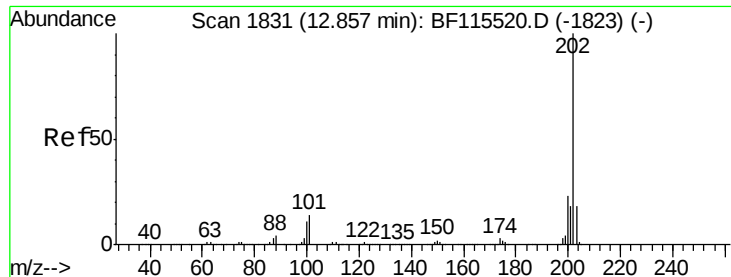


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

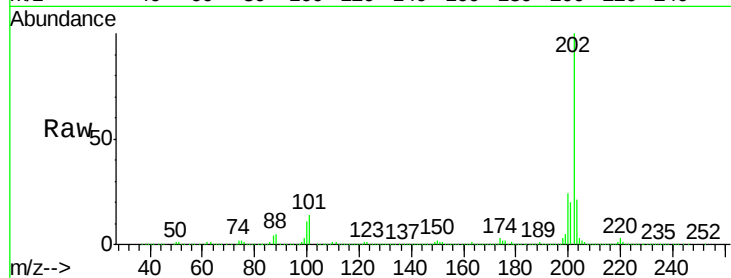




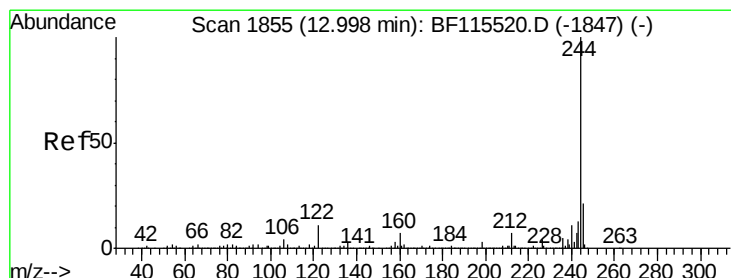
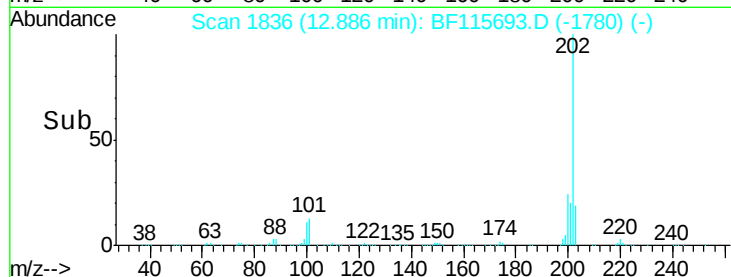
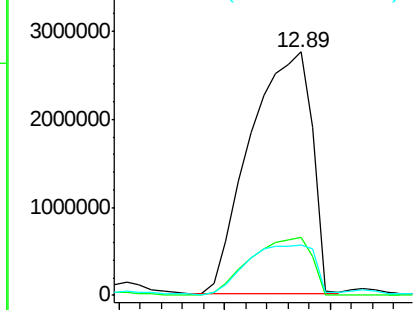
#78
Pvrene
Concen: 244.350 ng
RT: 12.89 min Scan# 1836
Delta R.T. 0.03 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 5592332
Ion Ratio Lower Upper
202 100
200 24.0 18.7 28.1
203 20.9 15.2 22.8

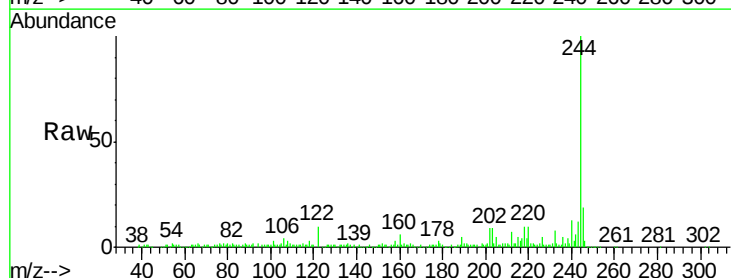


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

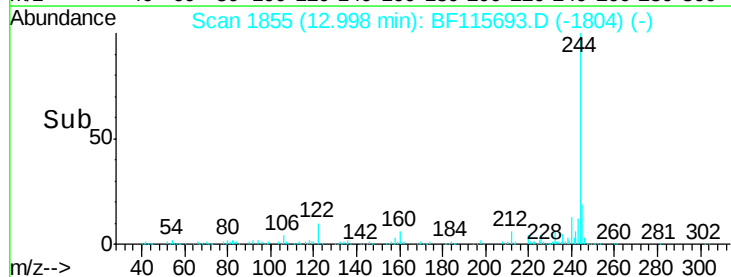
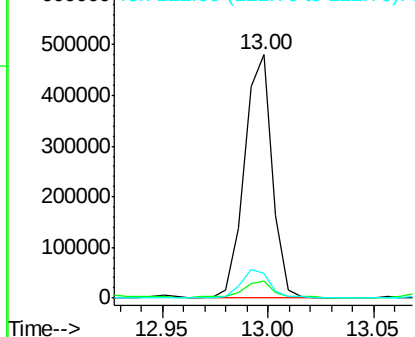


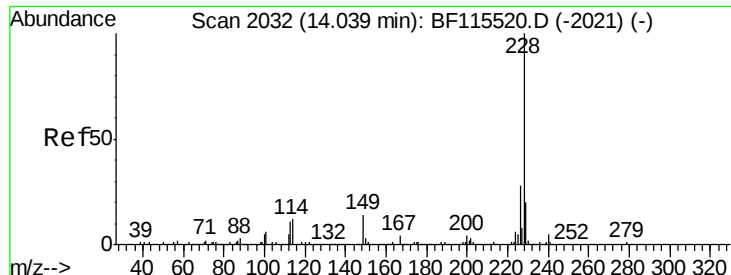
#79
Terphenyl-d14
Concen: 29.711 ng
RT: 13.00 min Scan# 1855
Delta R.T. 0.00 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:244 Resp: 434975
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 10.4 8.6 12.8



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 176.904 ng

RT: 14.06 min Scan# 2036

Delta R.T. 0.02 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

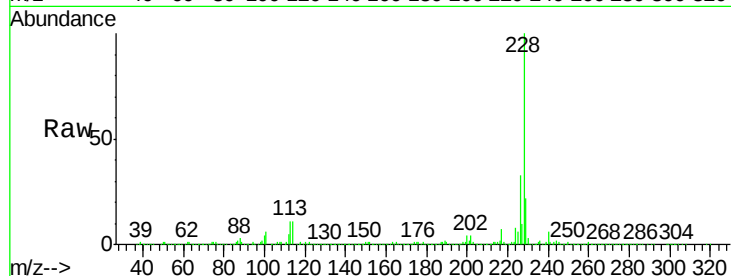
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 3148240

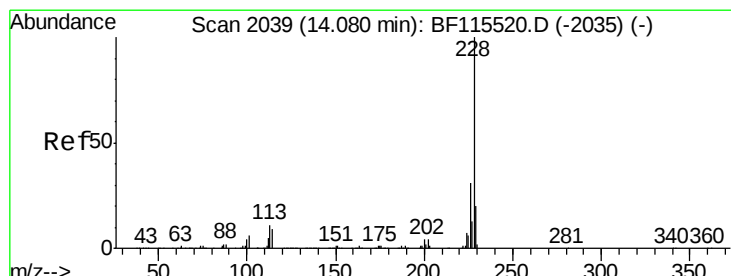
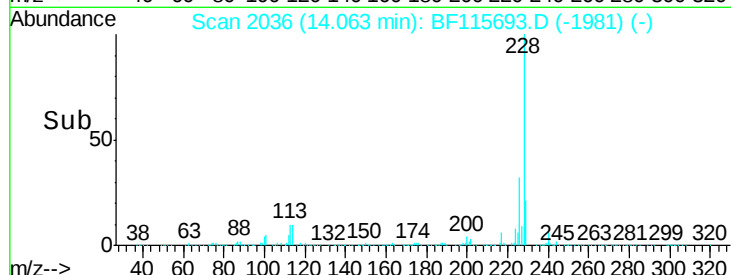
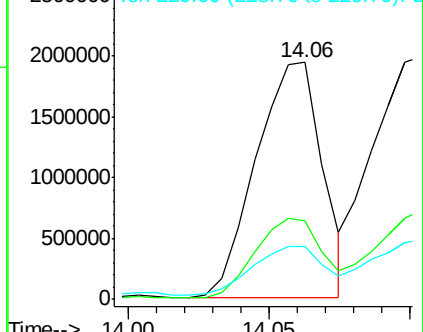
Ion	Ratio	Lower	Upper
228	100		
226	33.2	23.4	35.0
229	22.5	17.2	25.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 157.015 ng

RT: 14.10 min Scan# 2043

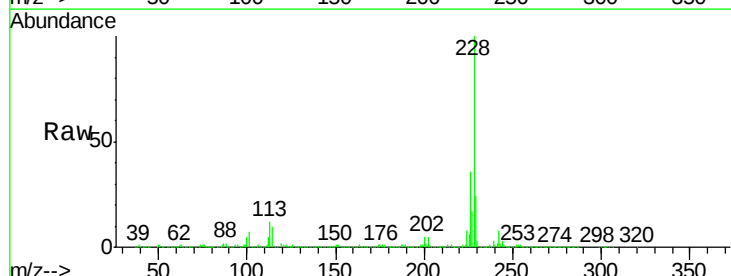
Delta R.T. 0.02 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Tgt Ion:228 Resp: 2805082

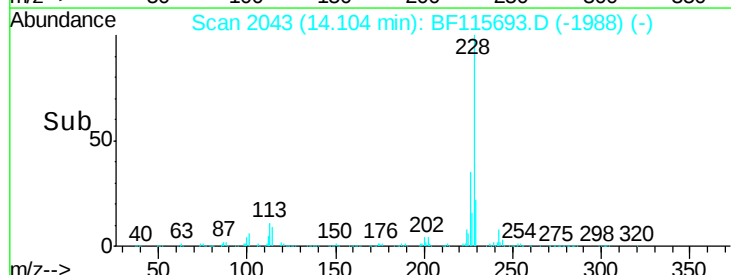
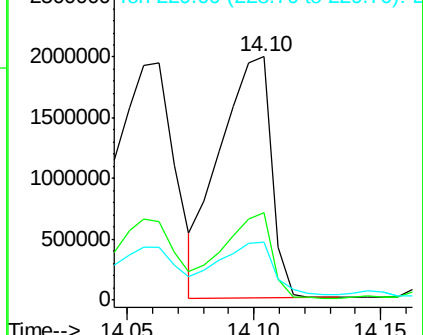
Ion	Ratio	Lower	Upper
228	100		
226	36.0	25.7	38.5
229	23.8	16.6	25.0

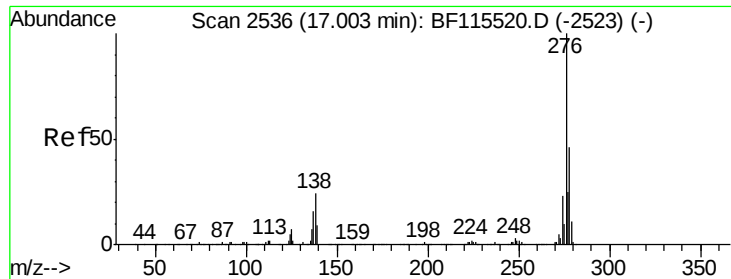


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

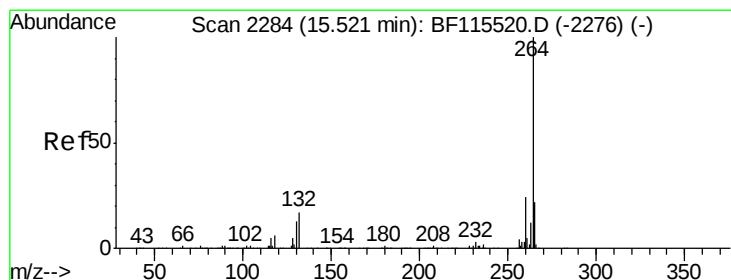
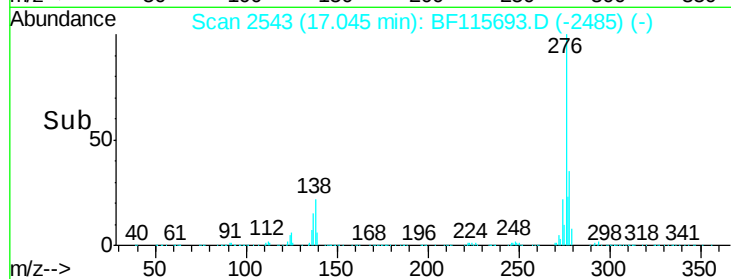
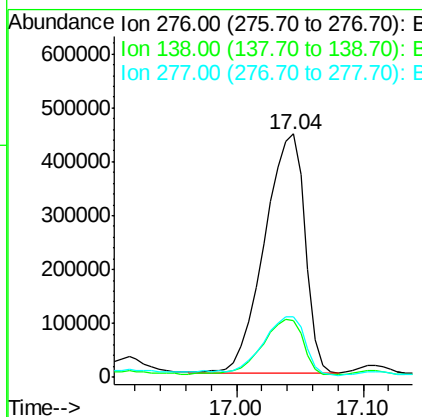
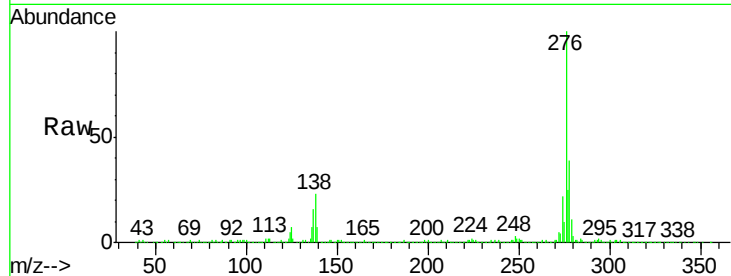




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 64.890 ng
 RT: 17.04 min Scan# 2543
 Delta R.T. 0.04 min
 Lab File: BF115693.D
 Acq: 20 Jul 2019 1:03

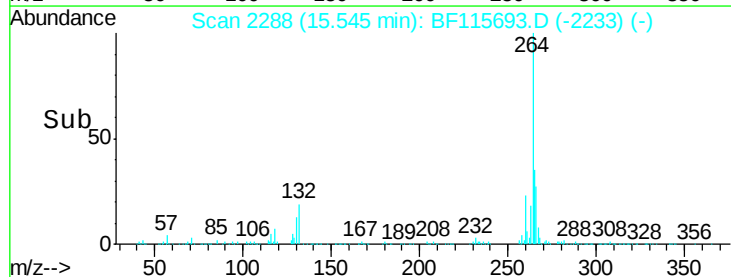
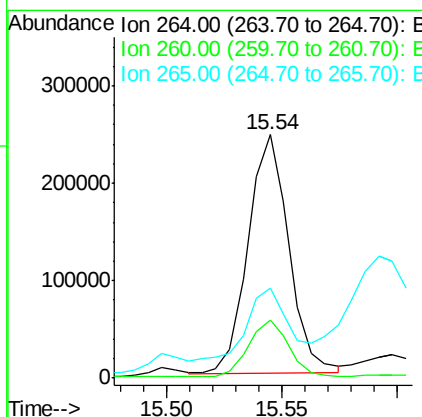
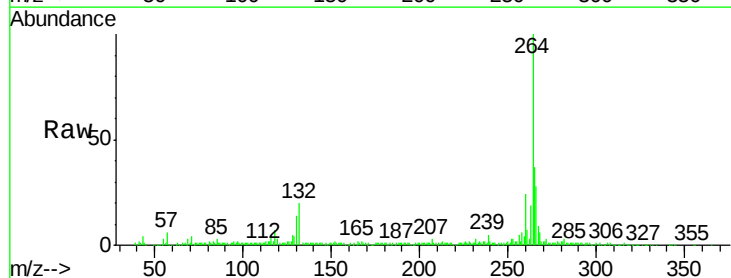
Instrument :
 BNA_F
 ClientSampleId :

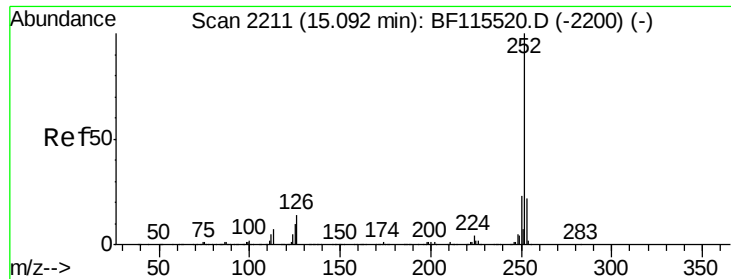
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.9	20.2	30.2
277	26.8	20.4	30.6



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.54 min Scan# 2288
 Delta R.T. 0.02 min
 Lab File: BF115693.D
 Acq: 20 Jul 2019 1:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.8	29.8
265	36.7	17.7	26.5#

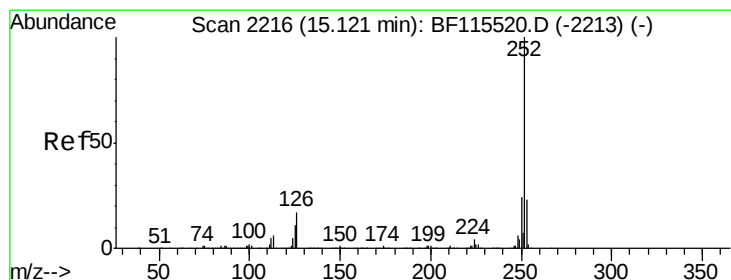
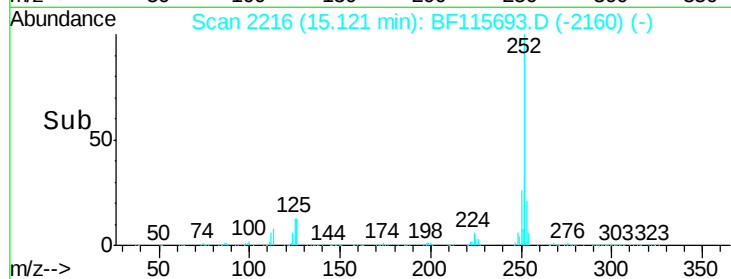
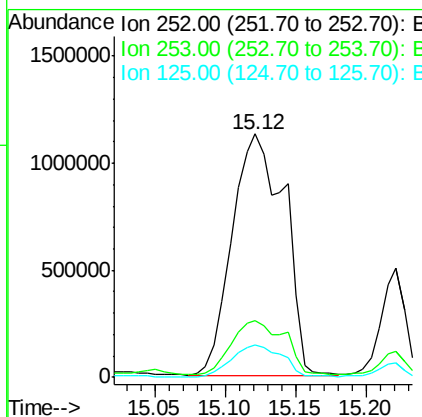
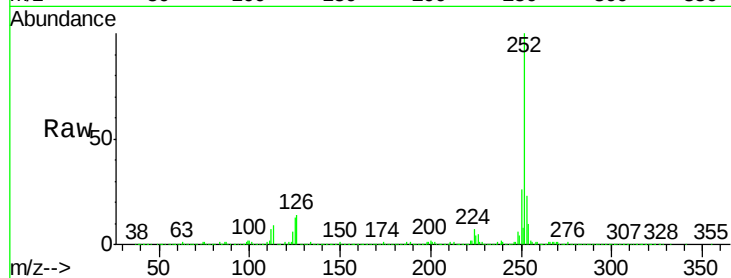




#88
Benzo(b)fluoranthene
Concen: 149.637 ng
RT: 15.12 min Scan# 2216
Delta R.T. 0.03 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

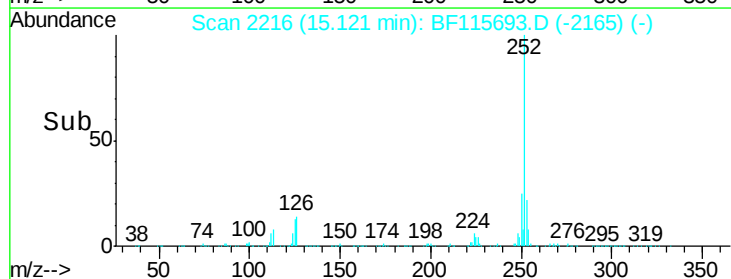
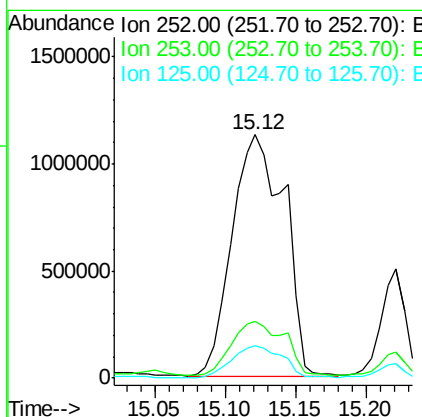
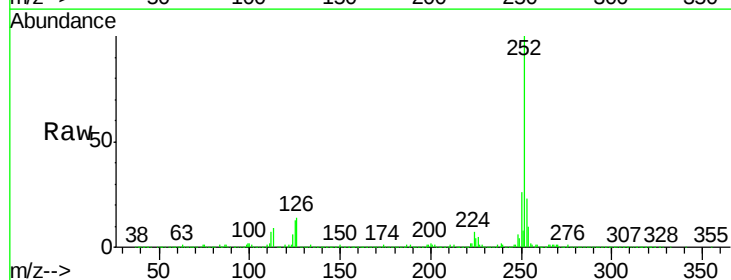
Instrument :
BNA_F
ClientSampleId :

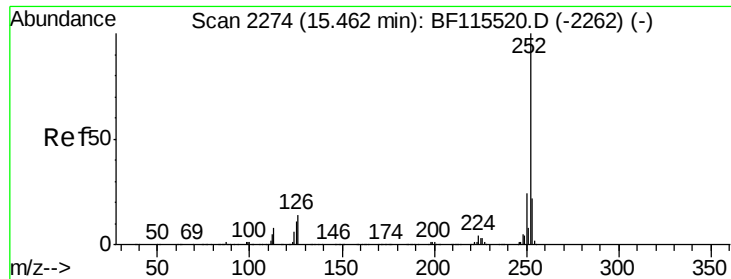
Tot Ion:252 Resp: 2917387
Ion Ratio Lower Upper
252 100
253 23.1 18.1 27.1
125 13.2 9.0 13.4



#89
Benzo(k)fluoranthene
Concen: 167.838 ng
RT: 15.12 min Scan# 2216
Delta R.T. 0.00 min
Lab File: BF115693.D
Acq: 20 Jul 2019 1:03

Tgt Ion:252 Resp: 2917387
Ion Ratio Lower Upper
252 100
253 23.1 18.6 28.0
125 13.2 9.0 13.6





#90

Benzo(a)pyrene

Concen: 122.614 ng

RT: 15.49 min Scan# 2279

Delta R.T. 0.03 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

Instrument :

BNA_F

ClientSampleId :

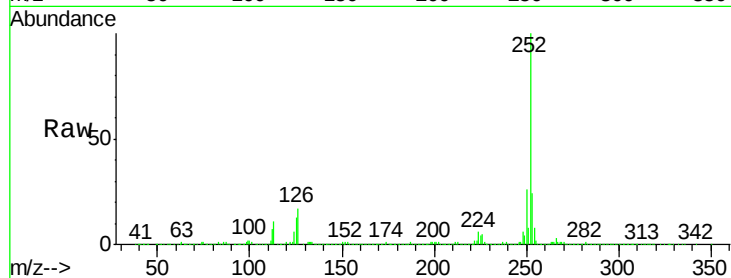
Tot Ion:252 Resp: 2054633

Ion Ratio Lower Upper

252 100

253 23.9 17.8 26.6

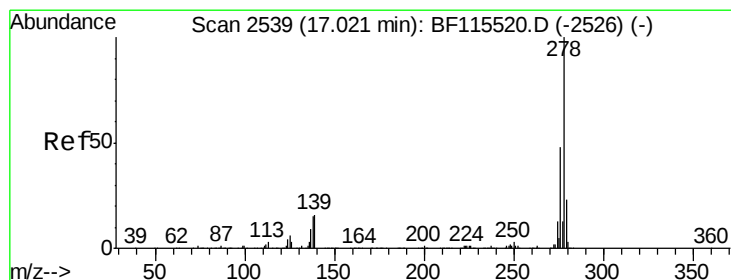
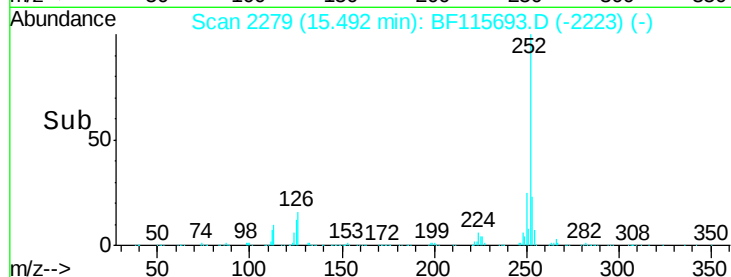
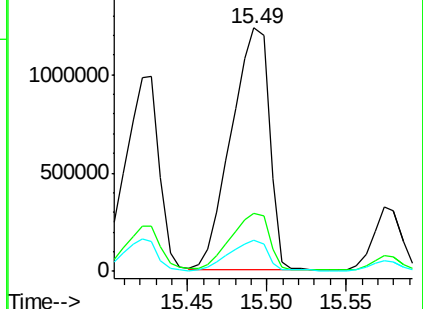
125 12.8 9.1 13.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 21.949 ng

RT: 17.04 min Scan# 2543

Delta R.T. 0.02 min

Lab File: BF115693.D

Acq: 20 Jul 2019 1:03

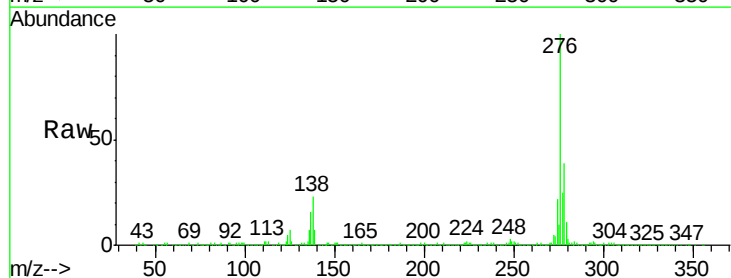
Tgt Ion:278 Resp: 322895

Ion Ratio Lower Upper

278 100

139 18.8 13.1 19.7

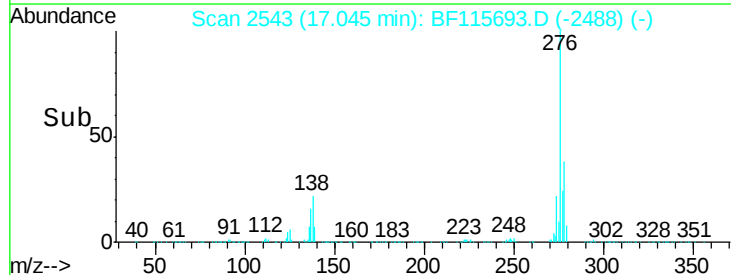
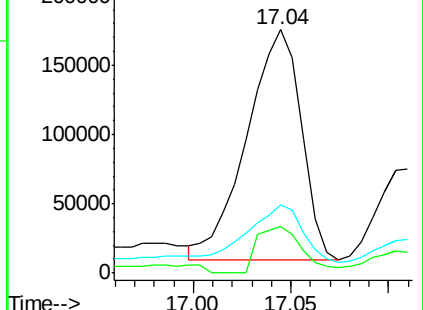
279 28.3 19.6 29.4

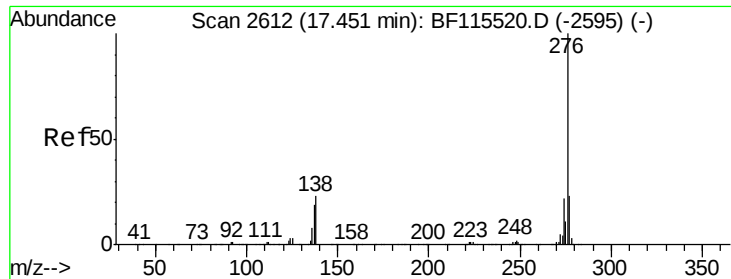


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

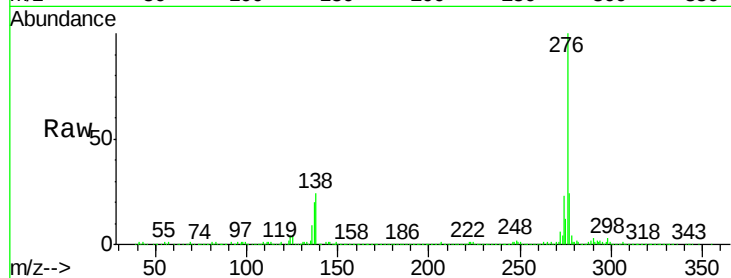




#92
 Benzo(a,h,i)perylene
 Concen: 75.976 ng
 RT: 17.50 min Scan# 2620
 Delta R.T. 0.05 min
 Lab File: BF115693.D
 Acq: 20 Jul 2019 1:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 1114694
 Ion Ratio Lower Upper
 276 100
 277 24.5 19.0 28.4
 138 23.7 17.2 25.8



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

