

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091819\
 Data File : BF117168.D
 Acq On : 19 Sep 2019 1:47
 Operator : HP/JU
 Sample : K4918-09 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 19 05:18:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	29683	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	131882	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	69656	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	181590	20.00	ng	0.00
76) Chrysene-d12	13.96	240	131430	20.00	ng	-0.01
87) Perylene-d12	15.41	264	124756	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	15669	8.24	ng	0.02
7) Phenol-d6	6.46	99	21165	8.61	ng	0.00
23) Nitrobenzene-d5	7.40	82	12192	4.86	ng	0.01
42) 2,4,6-Tribromophenol	10.65	330	5906	10.14	ng	0.00
45) 2-Fluorobiphenyl	9.18	172	29763	6.68	ng	0.00
79) Terphenyl-d14	12.91	244	45504	6.47	ng	0.00

Target Compounds

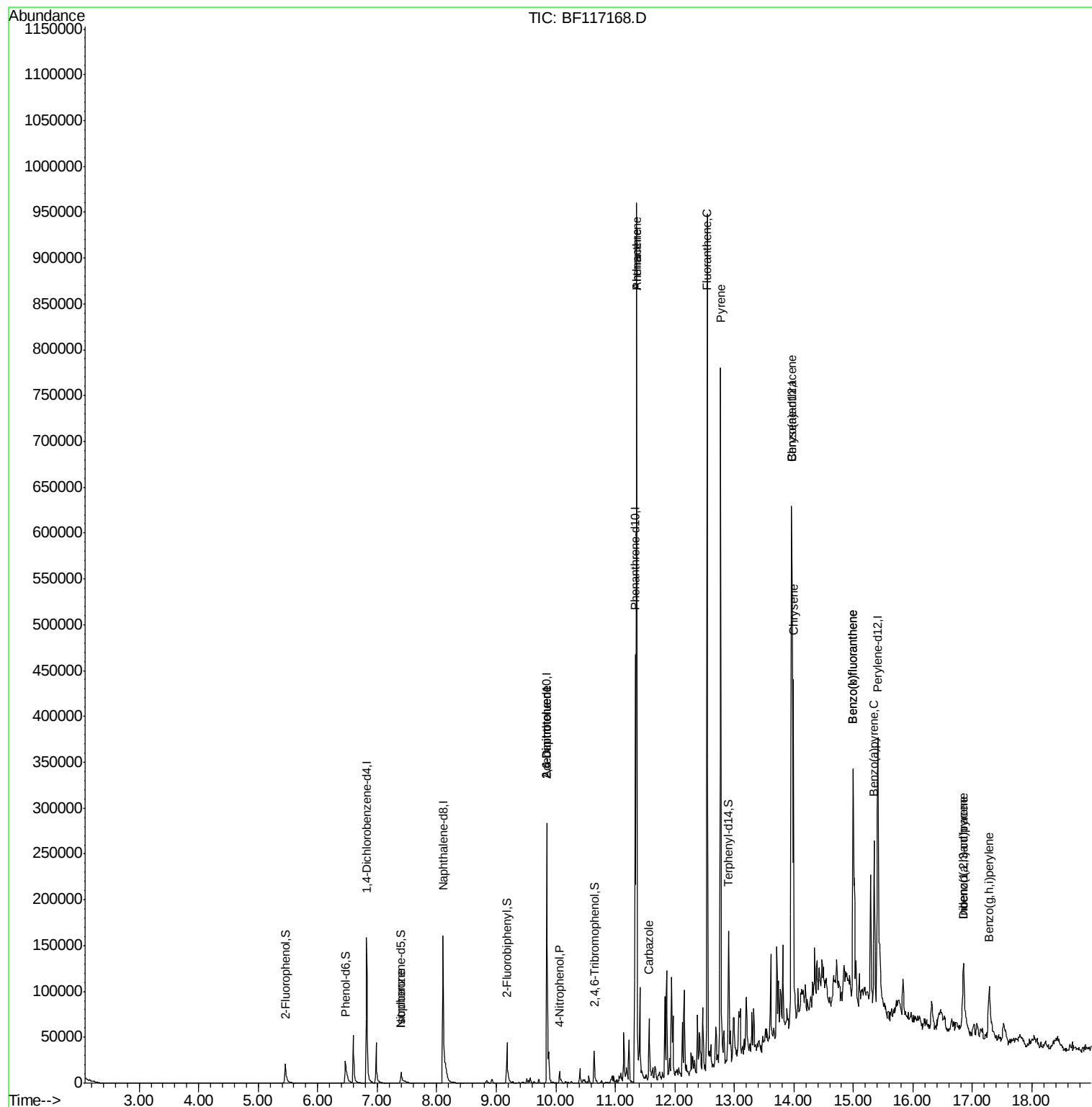
					Qvalue	
9) Benzaldehyde	6.59	77	212	Below Cal	#	1
25) Isophorone	7.40	82	12192	2.743	ng	# 66
51) 2,6-Dinitrotoluene	9.85	165	9076	9.035	ng	# 24
56) 4-Nitrophenol	10.06	139	3996	4.865	ng	# 4
57) 2,4-Dinitrotoluene	9.85	165	9076	6.961	ng	# 18
71) Phenanthrene	11.36	178	366194	35.504	ng	99
72) Anthracene	11.36	178	366194	34.776	ng	99
73) Carbazole	11.57	167	36155	3.617	ng	99
75) Fluoranthene	12.54	202	398301	37.583	ng	96
78) Pyrene	12.77	202	337607	30.614	ng	99
81) Benzo(a)anthracene	13.96	228	138778	15.804	ng	99
83) Chrysene	13.99	228	147610	17.235	ng	97
86) Indeno(1,2,3-cd)pyrene	16.85	276	51746	8.282	ng	93
88) Benzo(b)fluoranthene	14.99	252	184339	24.393	ng	98
89) Benzo(k)fluoranthene	14.99	252	184339	25.751	ng	98
90) Benzo(a)pyrene	15.35	252	89278	13.463	ng	98
91) Dibenzo(a,h)anthracene	16.85	278	12836	2.430	ng	93
92) Benzo(g,h,i)perylene	17.28	276	46549	8.843	ng	97

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

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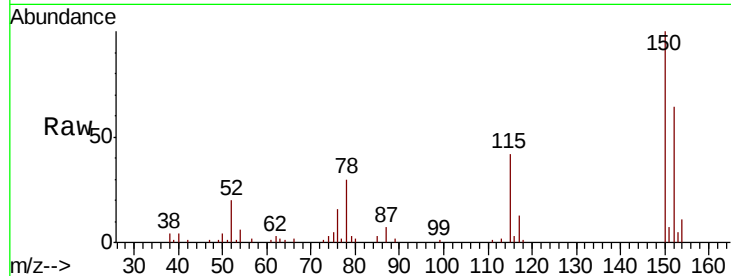


#1

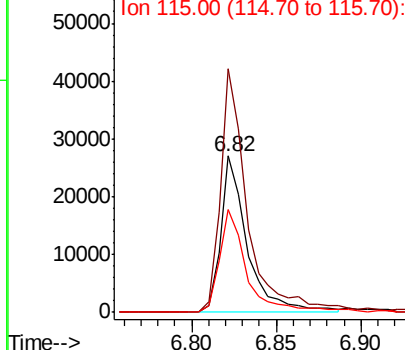
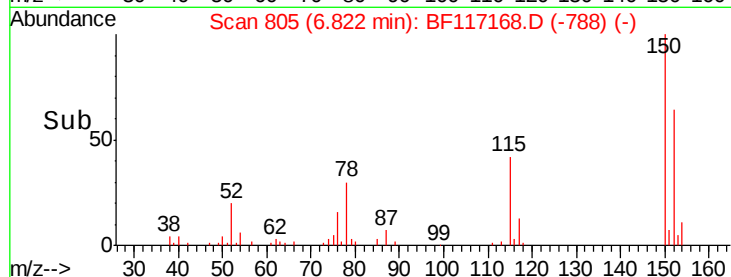
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.00 min
Lab File: BF117168.D
Acq: 19 Sep 2019 1:47

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	127.5	191.3
115	65.5	55.0	82.4



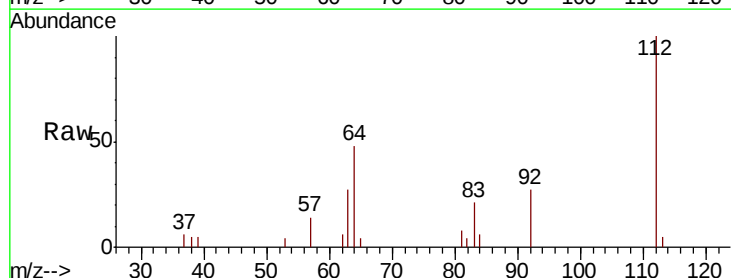
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



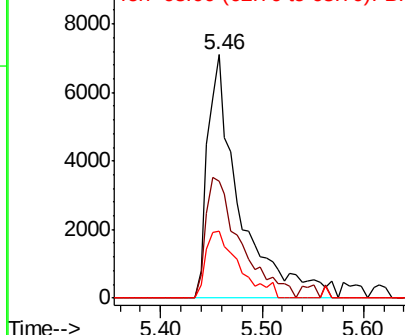
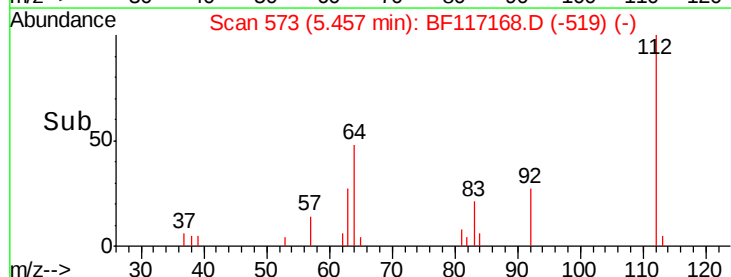
#5

2-Fluorophenol
Concen: 8.241 ng
RT: 5.46 min Scan# 573
Delta R.T. 0.02 min
Lab File: BF117168.D
Acq: 19 Sep 2019 1:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.1	45.7	68.5
63	27.4	24.9	37.3



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: 8.614 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

Instrument :

BNA_F

ClientSampleId :

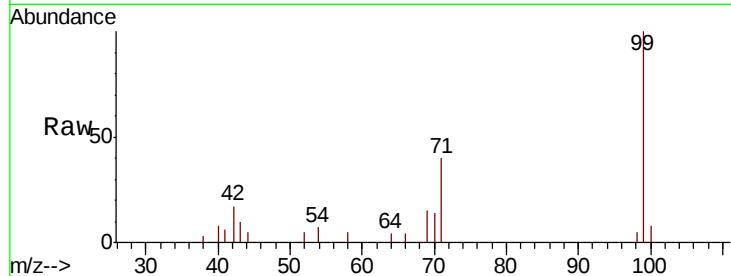
Tot Ion: 99 Resp: 21165

Ion Ratio Lower Upper

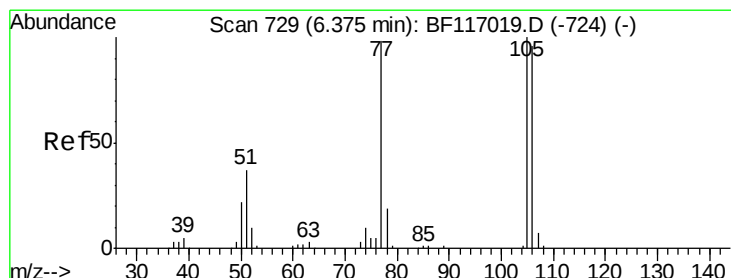
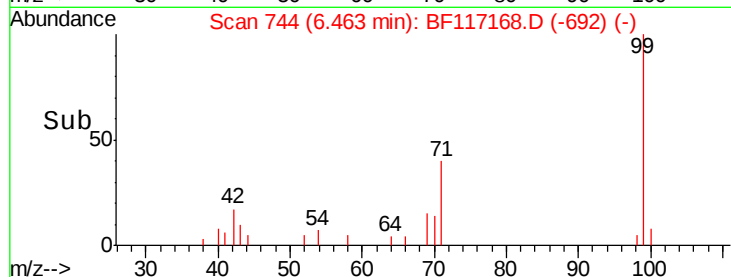
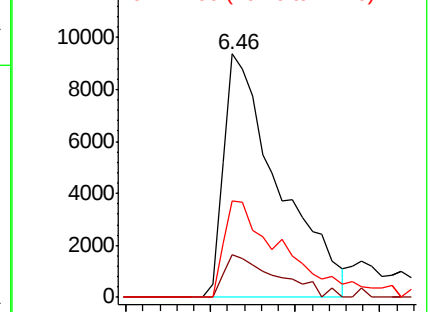
99 100

42 17.5 12.2 18.2

71 39.8 29.8 44.8



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



#9

Benzaldehyde

Concen: Below Cal

RT: 6.59 min Scan# 766

Delta R.T. 0.22 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

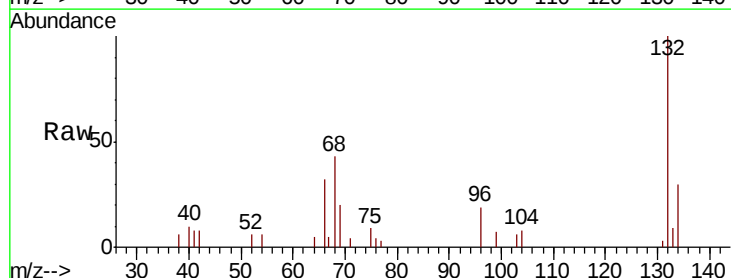
Tgt Ion: 77 Resp: 212

Ion Ratio Lower Upper

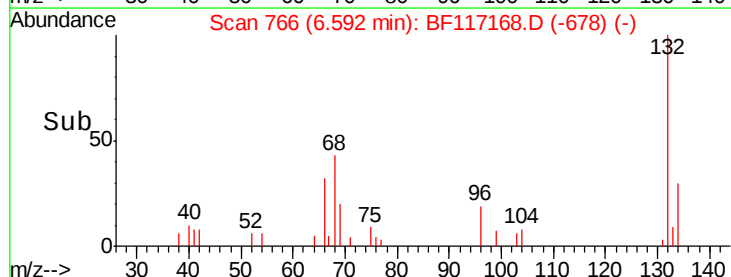
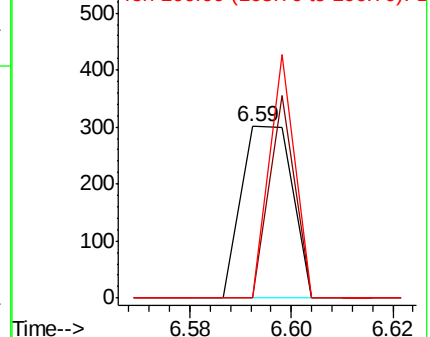
77 100

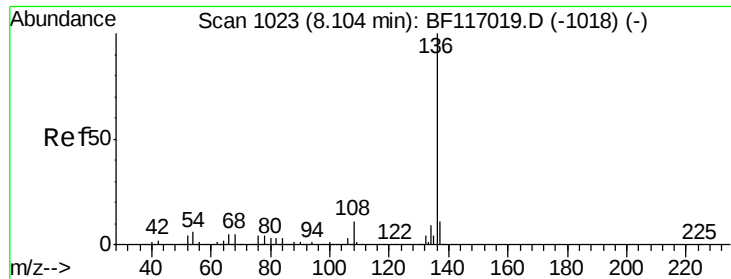
105 0.0 81.8 121.8#

106 0.0 77.3 117.3#



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 131882

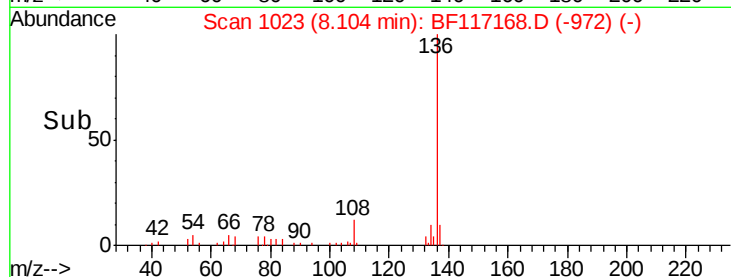
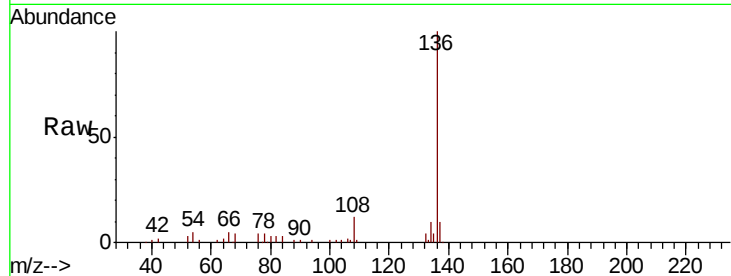
Ion Ratio Lower Upper

136 100

137 10.2 9.0 13.4

54 4.8 4.5 6.7

68 4.4 4.0 6.0

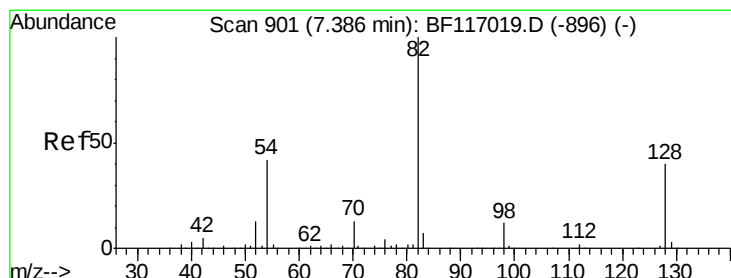
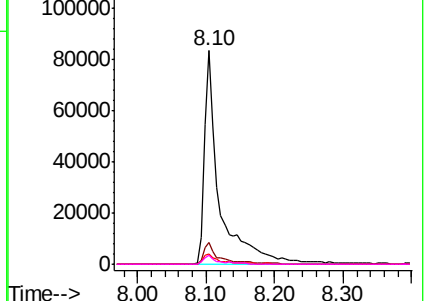


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 4.857 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.01 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

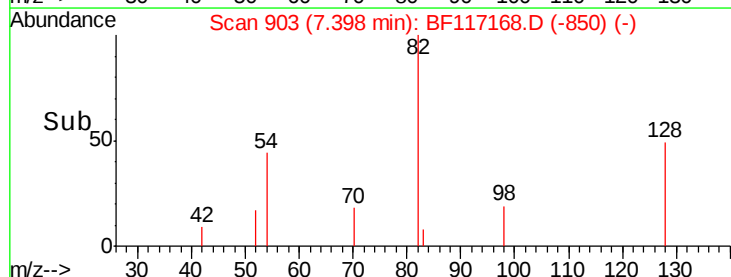
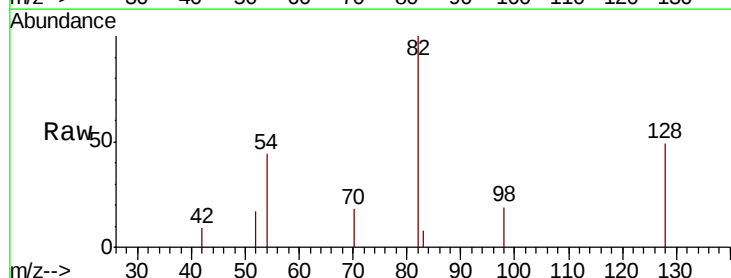
Tgt Ion: 82 Resp: 12192

Ion Ratio Lower Upper

82 100

128 49.3 32.3 48.5#

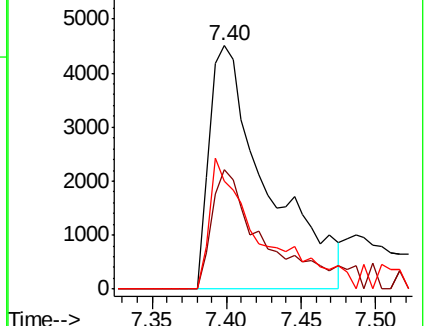
54 44.4 33.3 49.9

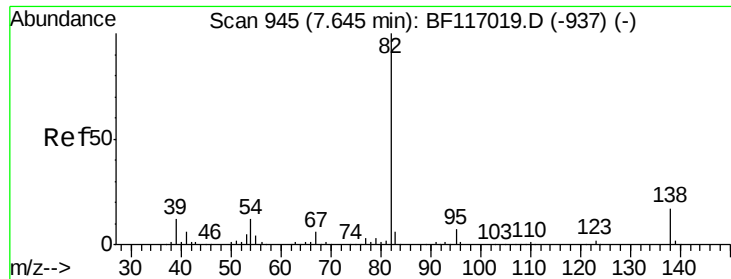


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 2.743 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.25 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

Instrument :

BNA_F

ClientSampleId :

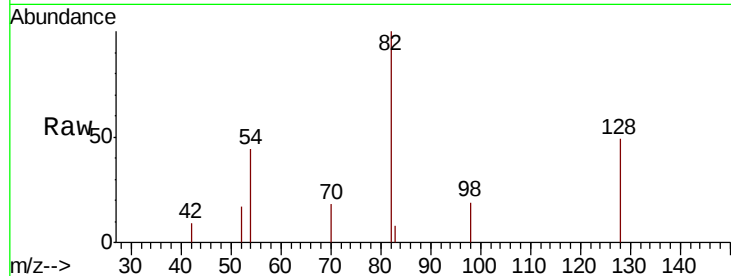
Tot Ion: 82 Resp: 12192

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

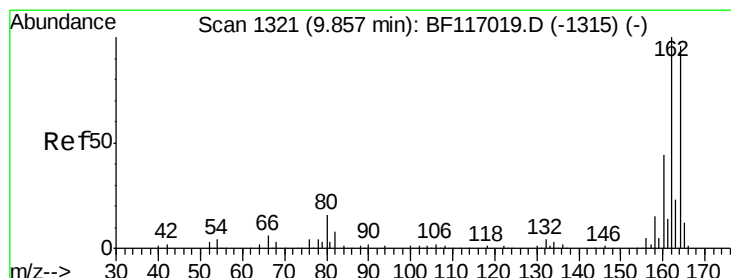
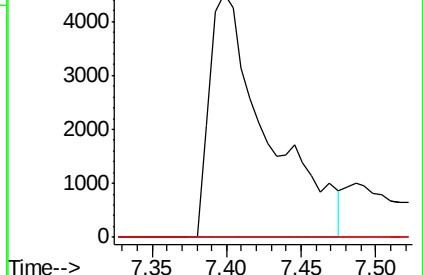
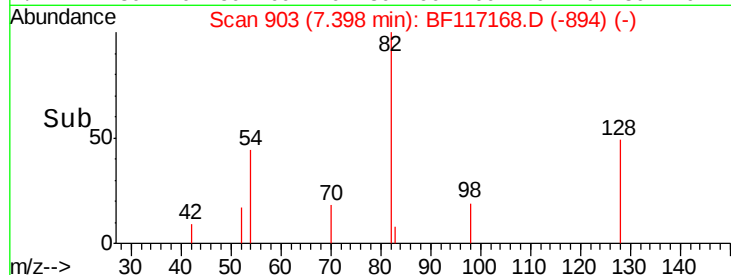
138 0.0 13.5 20.3#



Abundance Ion 82.00 (81.70 to 82.70): BF117168.D (-894) (-)

Ion 95.00 (94.70 to 95.70): BF117168.D (-894) (-)

Ion 138.00 (137.70 to 138.70): BF117168.D (-894) (-)



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

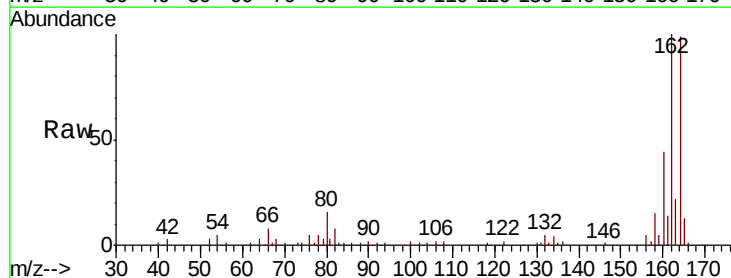
Tgt Ion: 164 Resp: 69656

Ion Ratio Lower Upper

164 100

162 100.8 83.4 125.2

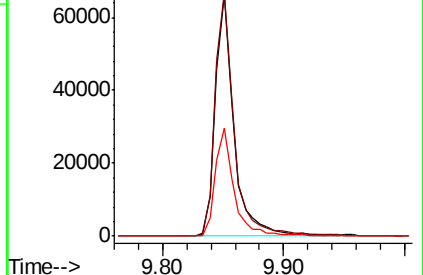
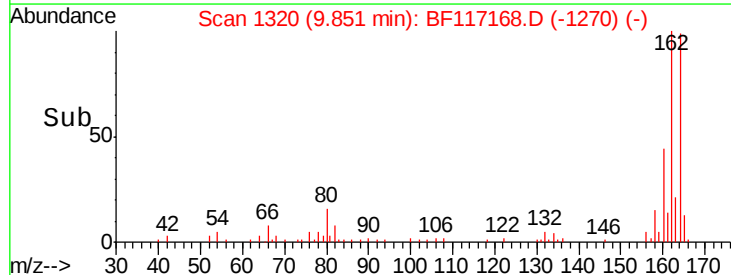
160 44.6 36.4 54.6

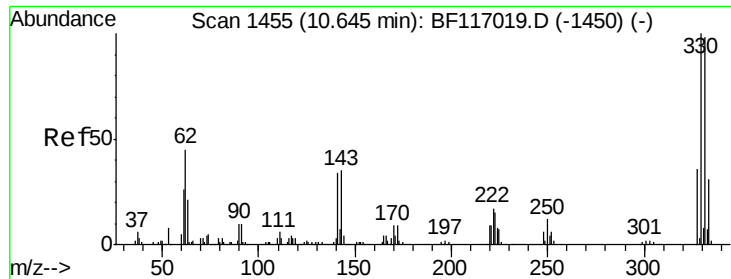


Abundance Ion 164.00 (163.70 to 164.70): BF117168.D (-1270) (-)

Ion 162.00 (161.70 to 162.70): BF117168.D (-1270) (-)

Ion 160.00 (159.70 to 160.70): BF117168.D (-1270) (-)

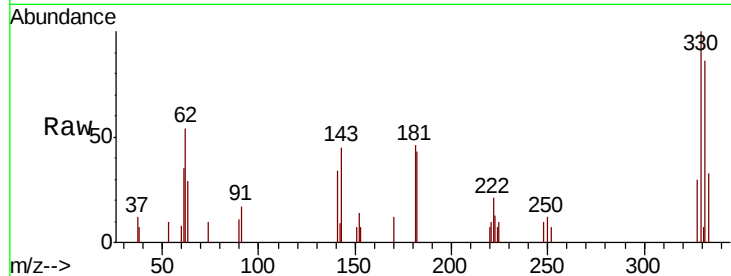




#42
 2,4,6-Tribromophenol
 Concen: 10.145 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. -0.00 min
 Lab File: BF117168.D
 Acq: 19 Sep 2019 1:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	87.9	78.0	117.0
141	40.7	35.8	53.6

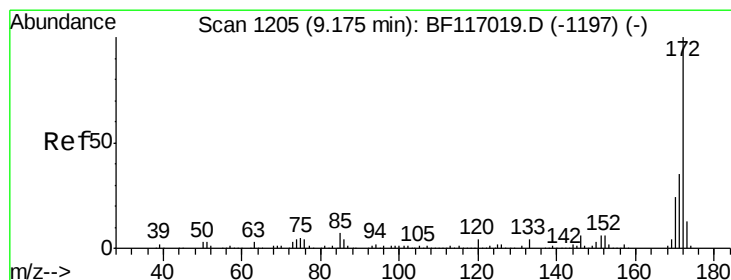
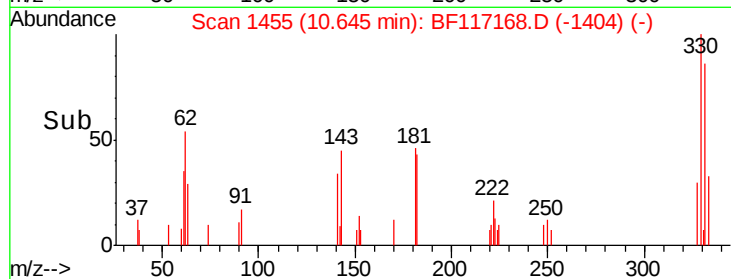
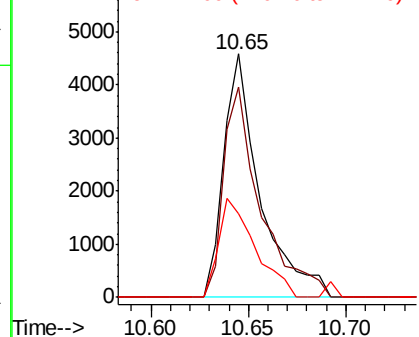


Abundance

Ion 329.80 (329.50 to 330.50): E

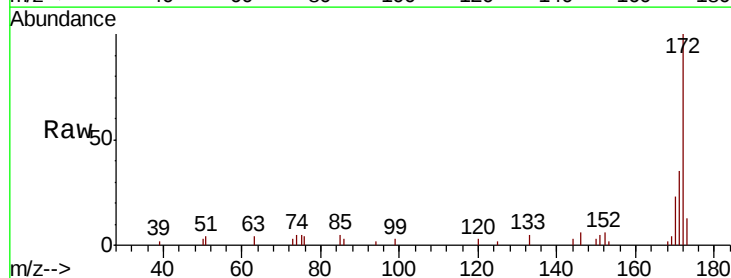
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 6.681 ng
 RT: 9.18 min Scan# 1206
 Delta R.T. 0.01 min
 Lab File: BF117168.D
 Acq: 19 Sep 2019 1:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.2
170	22.6	18.9	28.3

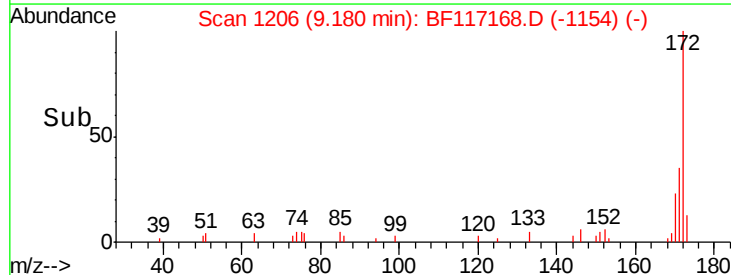
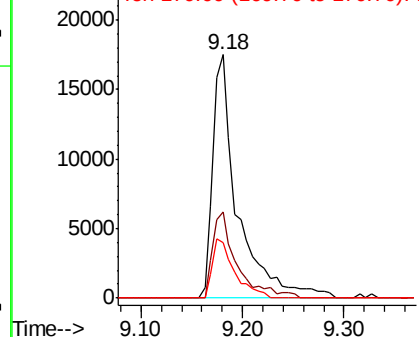


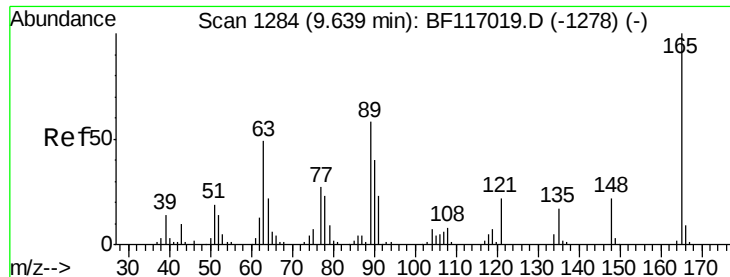
Abundance

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

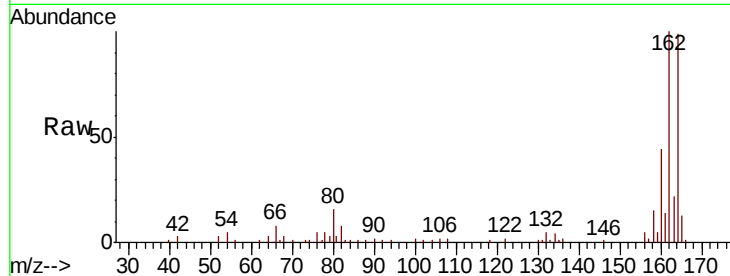




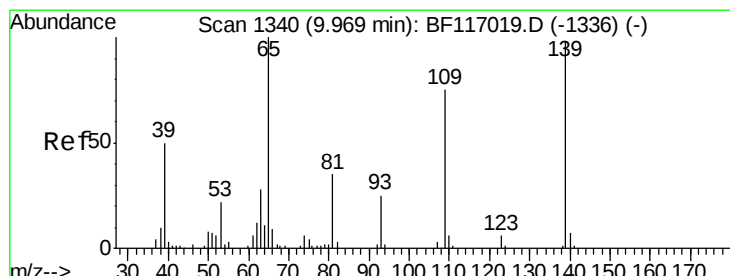
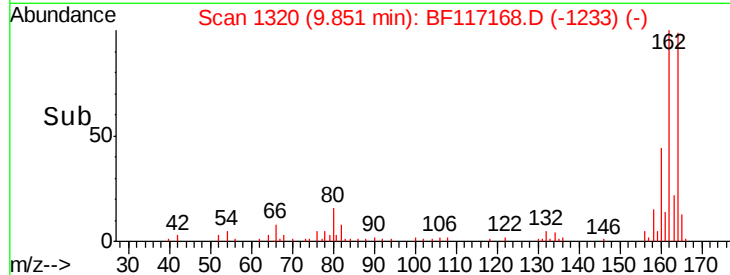
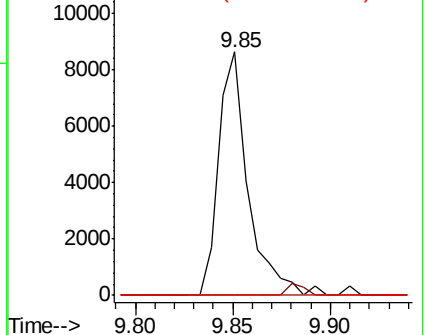
#51
 2,6-Dinitrotoluene
 Concen: 9.035 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.21 min
 Lab File: BF117168.D
 Acq: 19 Sep 2019 1:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	41.8	62.8#
89	0.0	46.5	69.7#

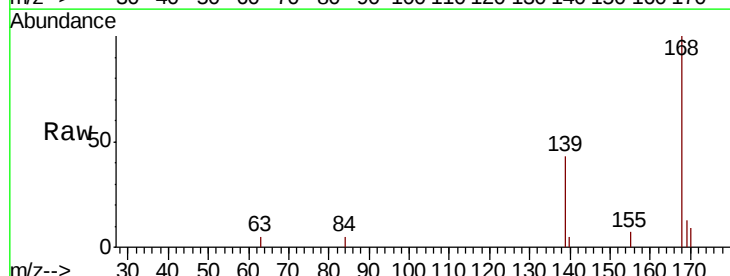


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

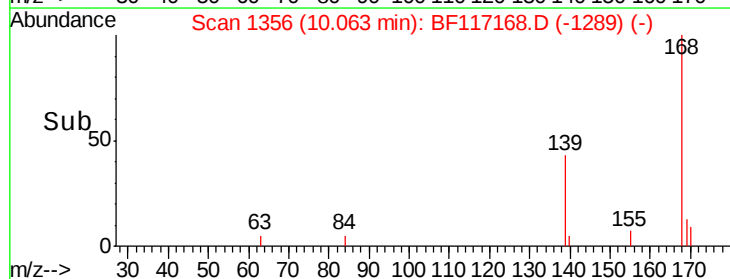
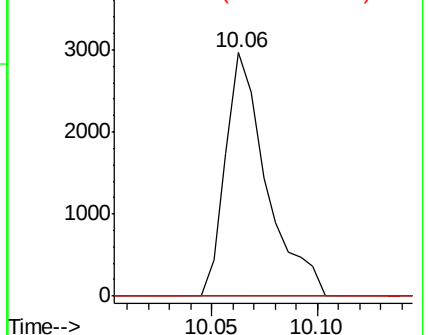


#56
 4-Nitrophenol
 Concen: 4.865 ng
 RT: 10.06 min Scan# 1356
 Delta R.T. 0.09 min
 Lab File: BF117168.D
 Acq: 19 Sep 2019 1:47

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	56.4	96.4#
65	0.0	82.5	122.5#



Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF1

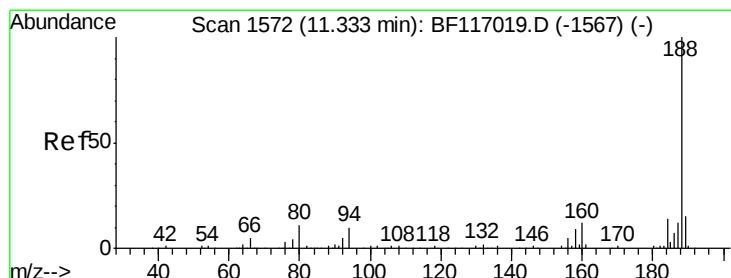
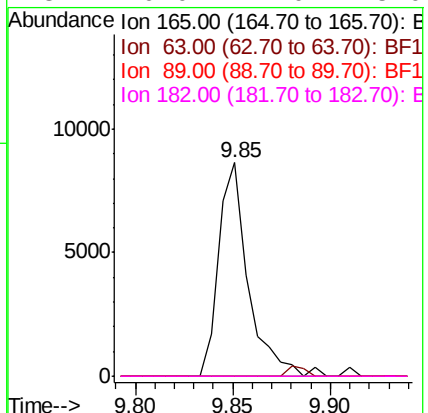
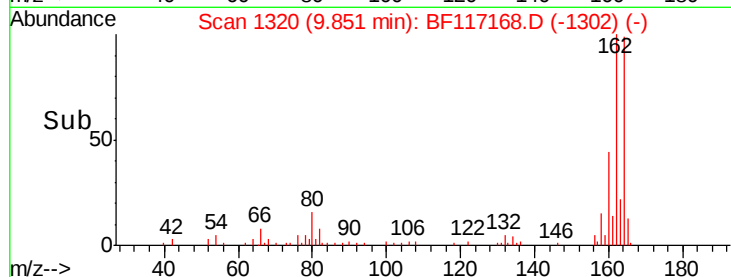
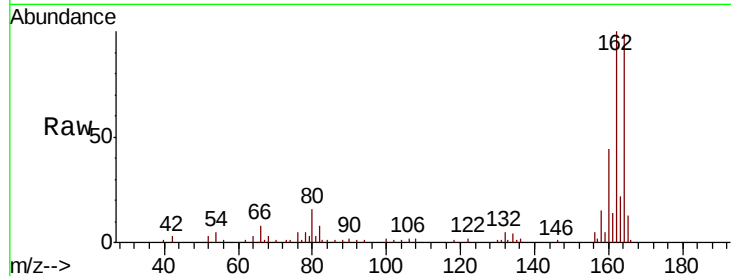




#57
 2,4-Dinitrotoluene
 Concen: 6.961 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.19 min
 Lab File: BF117168.D
 Acq: 19 Sep 2019 1:47

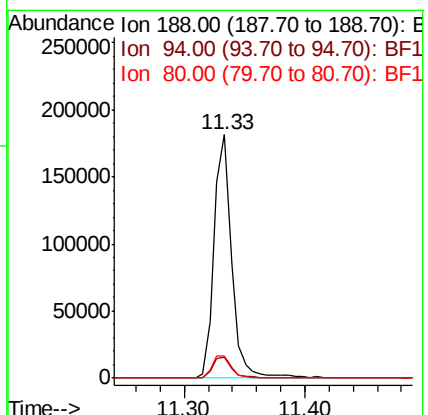
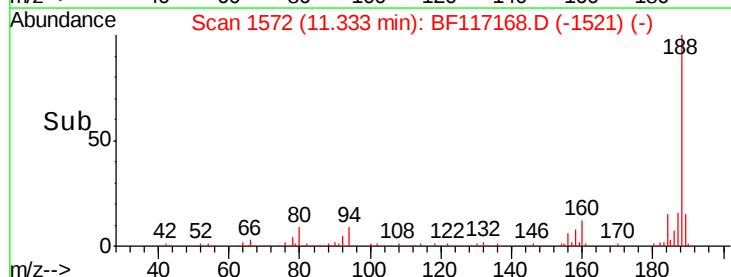
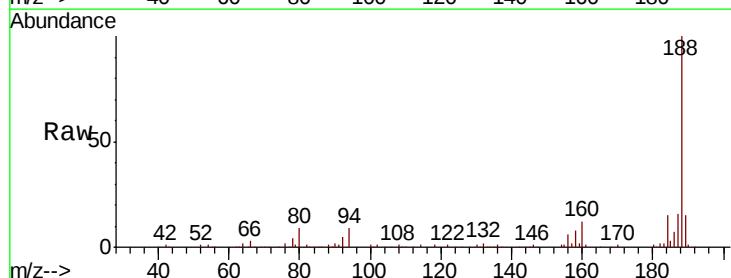
Instrument :
 BNA_F
 ClientSampled :

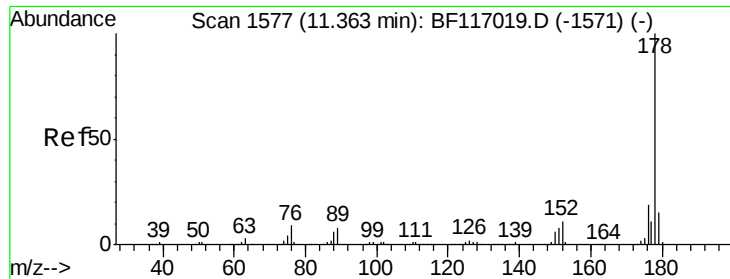
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	35.0	52.4#
89	0.0	66.1	99.1#
182	0.0	2.0	3.0#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: BF117168.D
 Acq: 19 Sep 2019 1:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.8	8.2	12.2
80	9.3	9.0	13.6

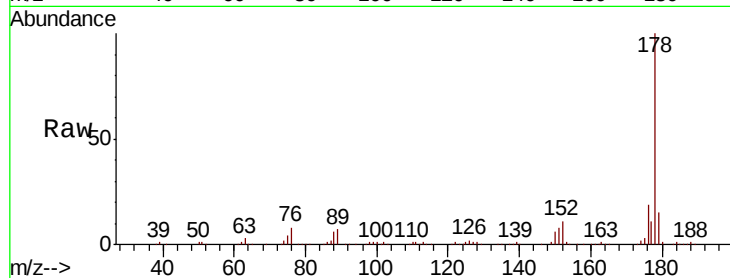




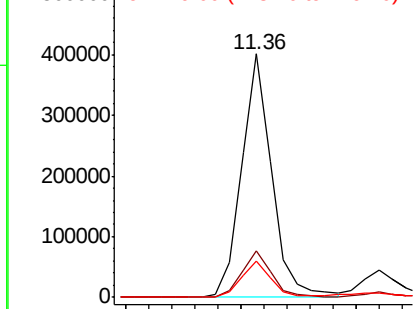
#71
Phenanthrene
Concen: 35.504 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF117168.D
Acq: 19 Sep 2019 1:47

Instrument :
BNA_F
ClientSampleId :

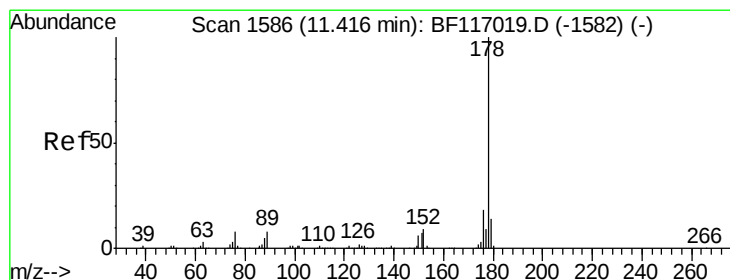
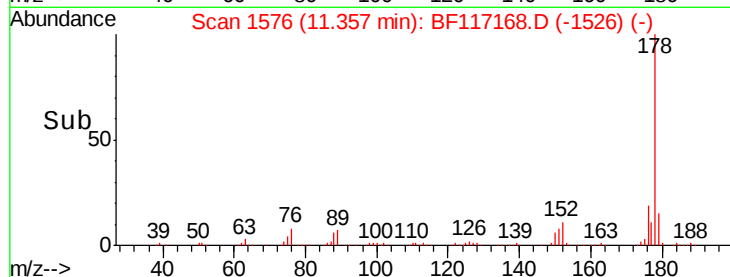
Tot Ion	178	Resp	366194
Ion Ratio	100	Lower	Upper
176	19.2	15.4	23.2
179	14.7	12.4	18.6



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

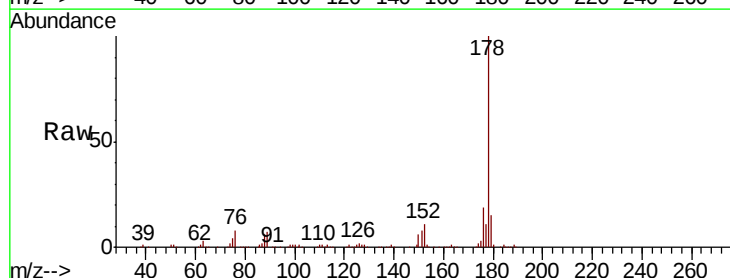


Time--> 11.30 11.35 11.40

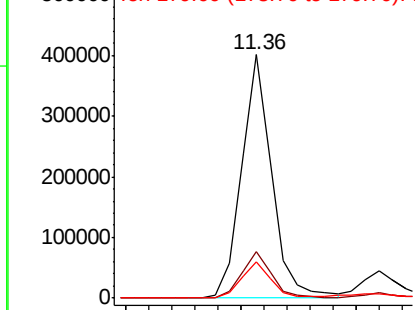


#72
Anthracene
Concen: 34.776 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.06 min
Lab File: BF117168.D
Acq: 19 Sep 2019 1:47

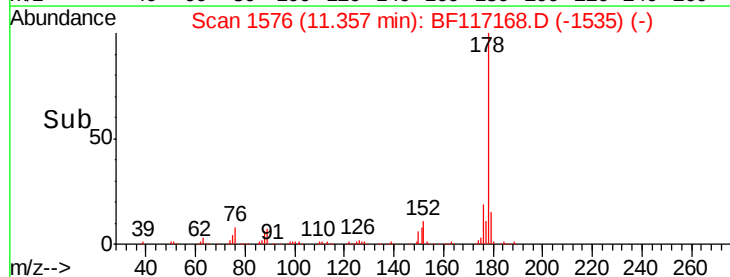
Tgt Ion	178	Resp	366194
Ion Ratio	100	Lower	Upper
176	19.2	14.6	21.8
179	14.7	11.6	17.4

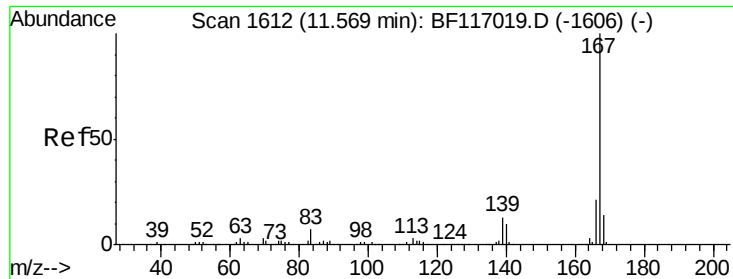


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



Time--> 11.30 11.35 11.40





#73

Carbazole

Concen: 3.617 ng

RT: 11.57 min Scan# 1612

Delta R.T. -0.00 min

Lab File: BF117168.D

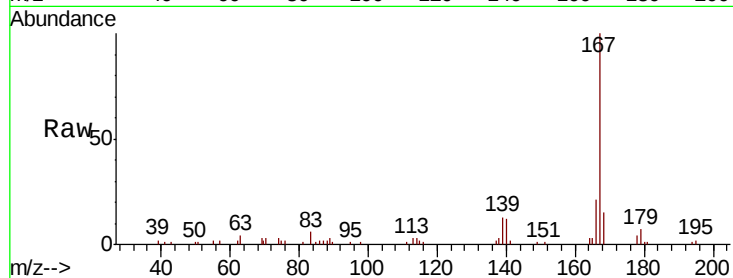
Acq: 19 Sep 2019 1:47

Instrument :

BNA_F

ClientSampleId :

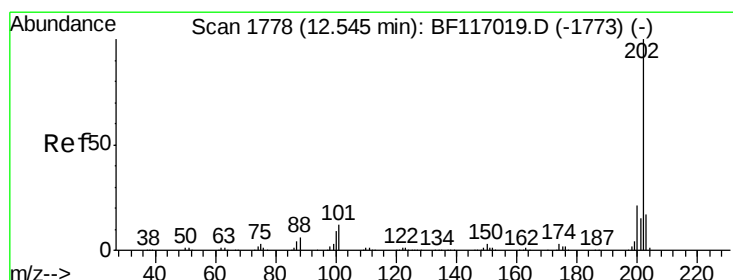
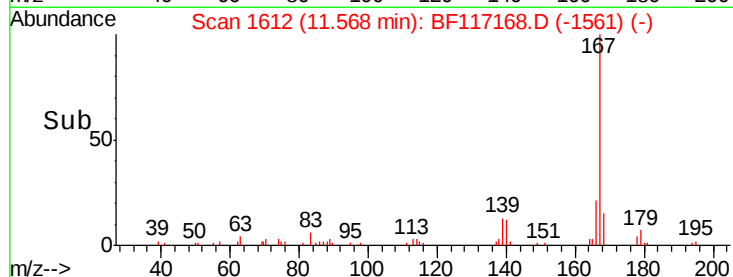
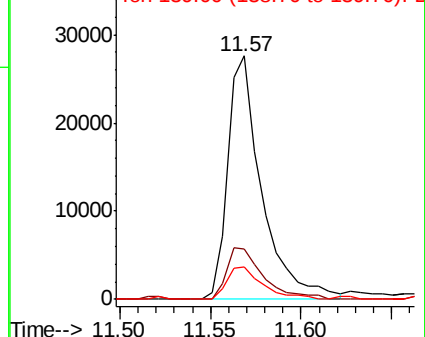
Tot Ion:167	Resp:	36155
Ion Ratio	Lower	Upper
167	100	
166	20.8	17.2 25.8
139	13.5	10.6 16.0



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: 37.583 ng

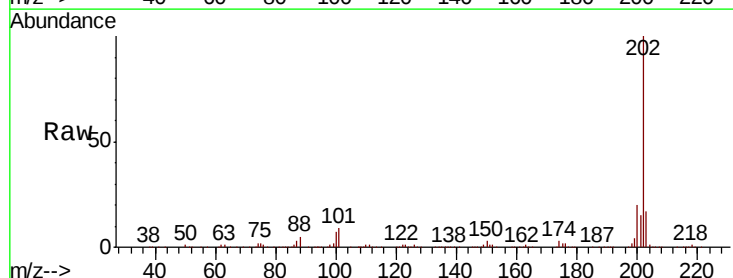
RT: 12.54 min Scan# 1778

Delta R.T. -0.00 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

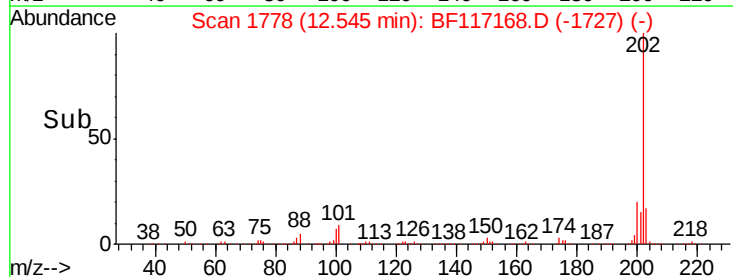
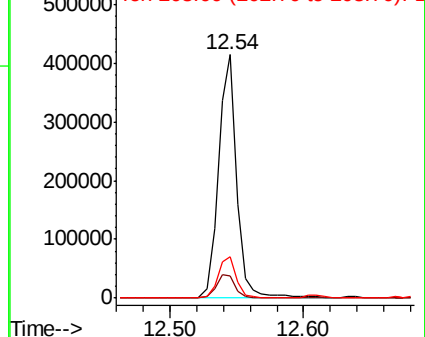
Tgt Ion:202	Resp:	398301
Ion Ratio	Lower	Upper
202	100	
101	9.3	0.0 32.3
203	16.9	0.0 37.1

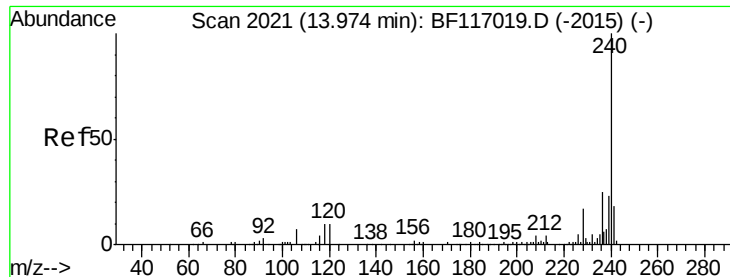


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

Instrument :

BNA_F

ClientSampleId :

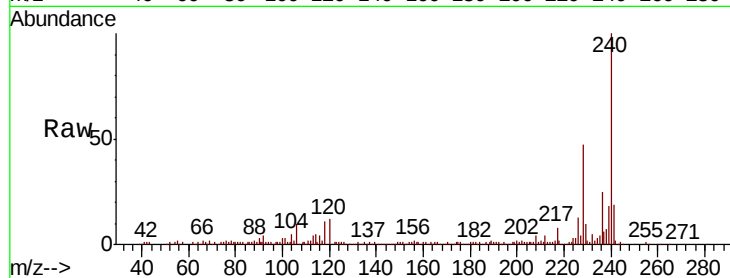
Tot Ion:240 Resp: 131430

Ion Ratio Lower Upper

240 100

120 12.2 8.3 12.5

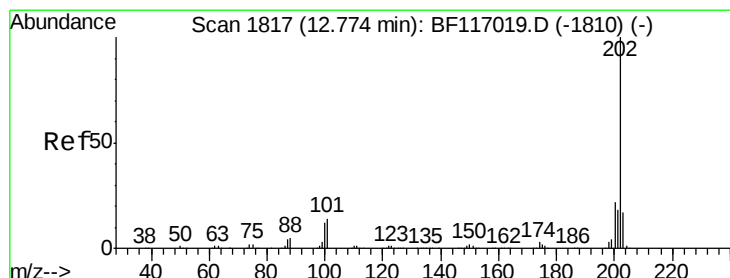
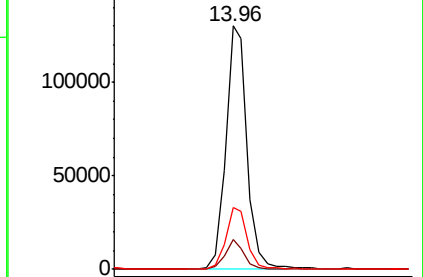
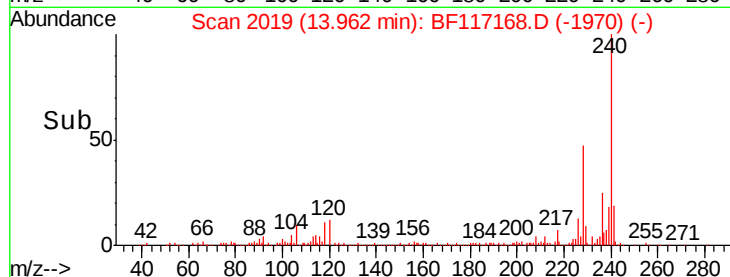
236 25.5 20.3 30.5



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

Pyrene

Concen: 30.614 ng

RT: 12.77 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

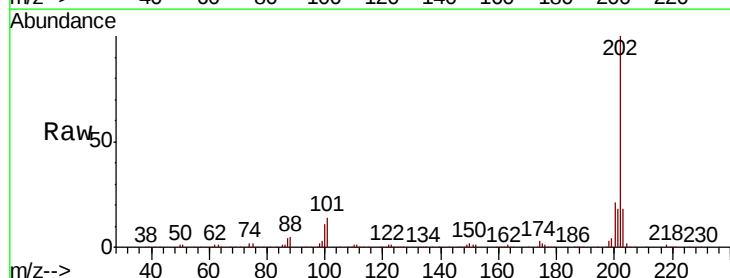
Tgt Ion:202 Resp: 337607

Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

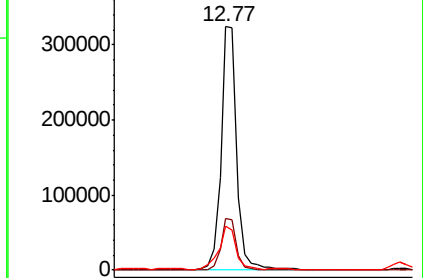
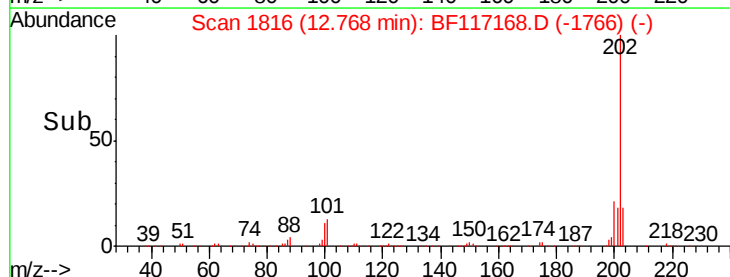
203 18.1 14.0 21.0

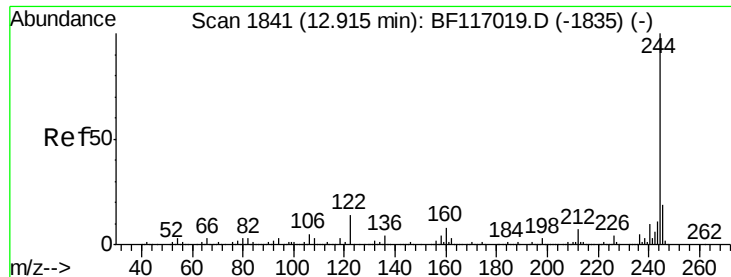


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

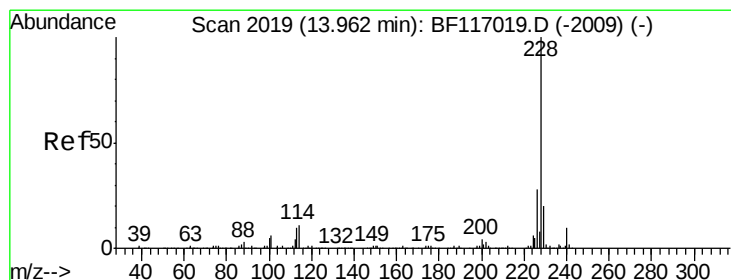
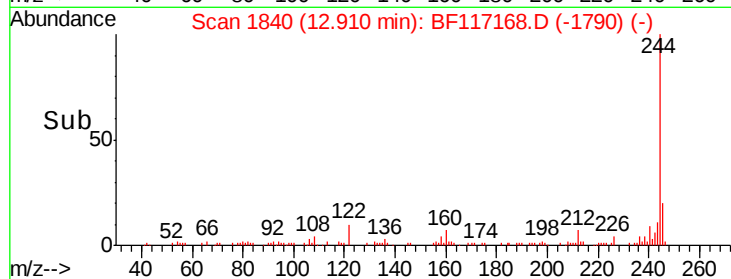
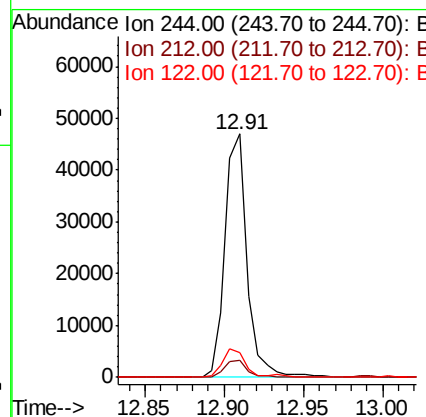
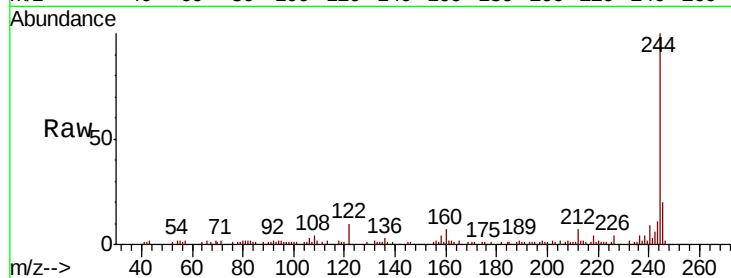




#79
 Terphenyl-d14
 Concen: 6.472 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: BF117168.D
 Acq: 19 Sep 2019 1:47

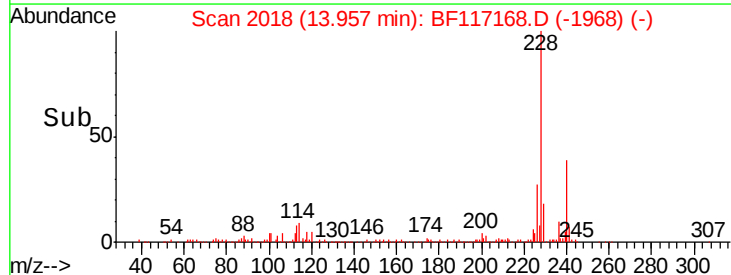
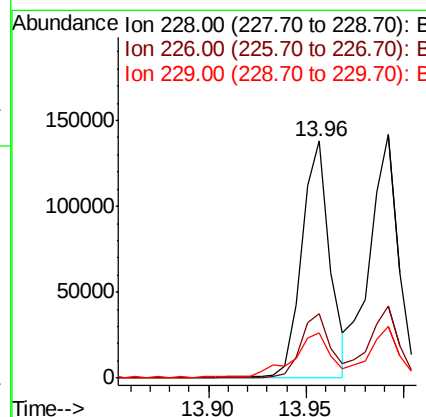
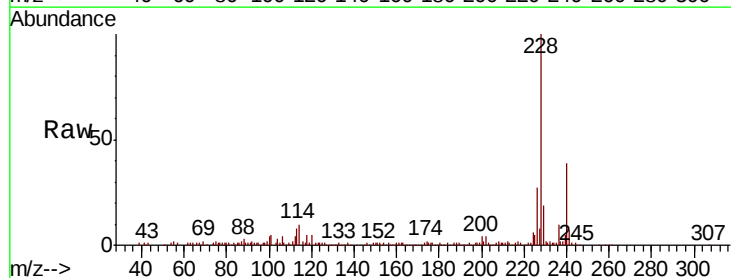
Instrument :
 BNA_F
 ClientSampleId :

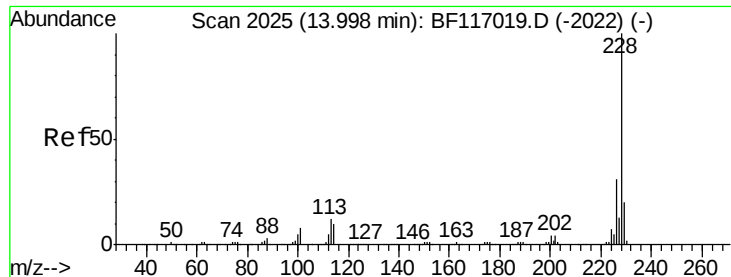
Tot Ion:244 Resp: 45504
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.8
 122 10.3 11.3 16.9#



#81
 Benzo(a)anthracene
 Concen: 15.804 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BF117168.D
 Acq: 19 Sep 2019 1:47

Tgt Ion:228 Resp: 138778
 Ion Ratio Lower Upper
 228 100
 226 27.3 22.3 33.5
 229 19.1 15.9 23.9





#83

Chrysene

Concen: 17.235 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

Instrument :

BNA_F

ClientSampleId :

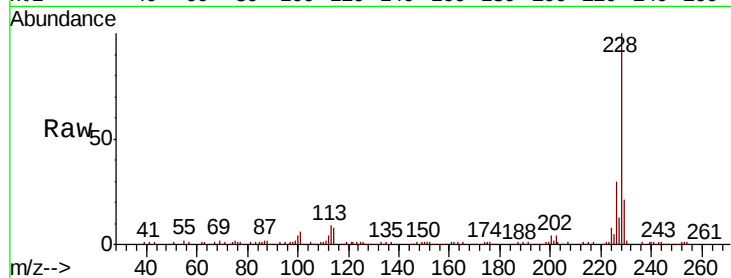
Tot Ion:228 Resp: 147610

Ion Ratio Lower Upper

228 100

226 29.7 24.8 37.2

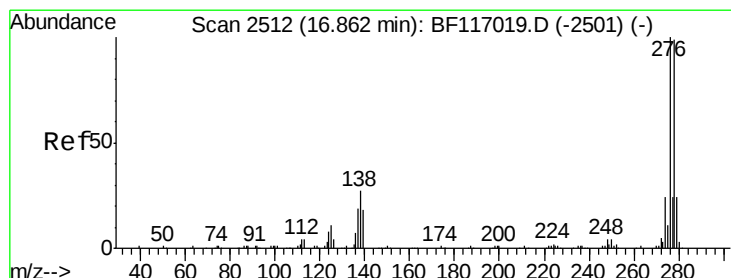
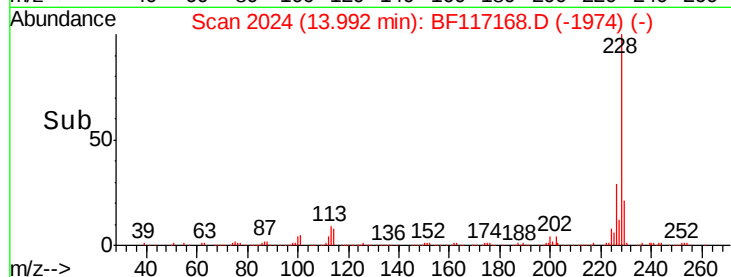
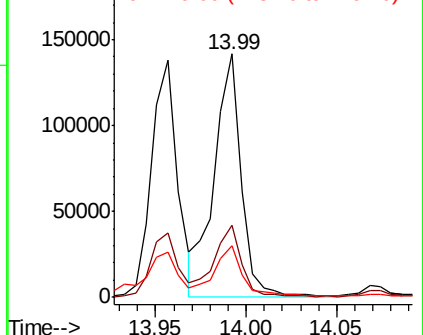
229 21.1 15.8 23.8



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 8.282 ng

RT: 16.85 min Scan# 2510

Delta R.T. -0.01 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

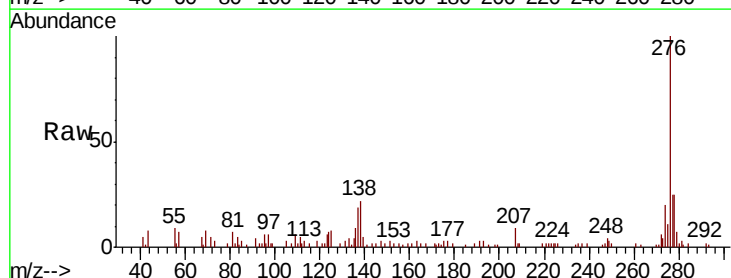
Tgt Ion:276 Resp: 51746

Ion Ratio Lower Upper

276 100

138 21.3 20.7 31.1

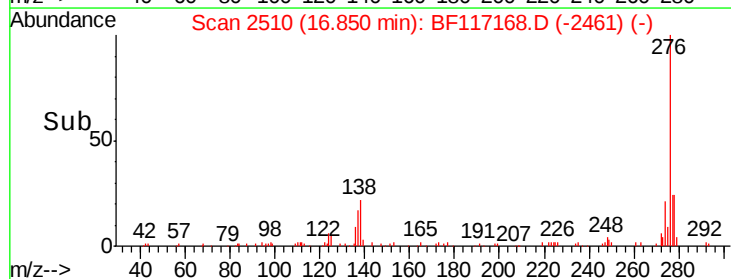
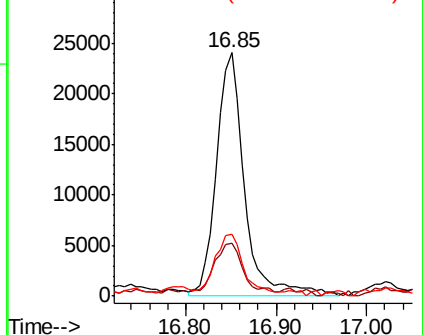
277 22.2 19.8 29.8

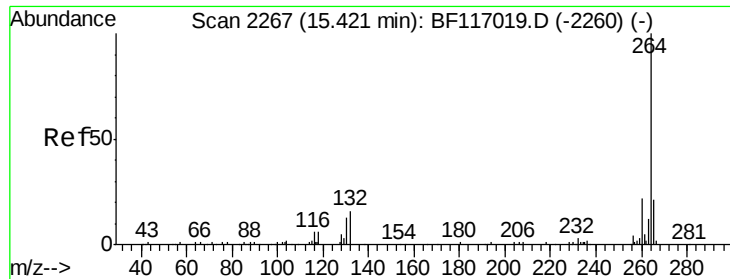


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

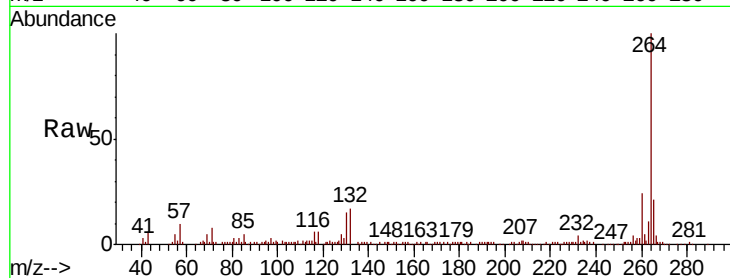




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BF117168.D
Acq: 19 Sep 2019 1:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	17.6	26.4
265	20.8	16.6	24.8

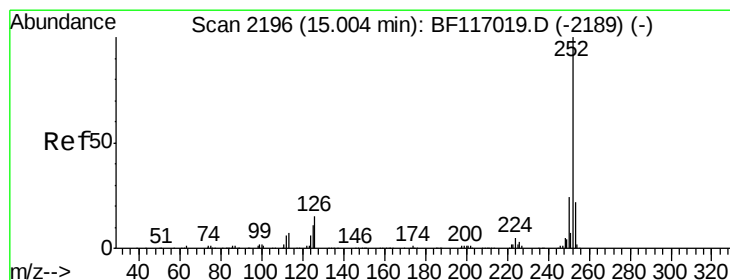
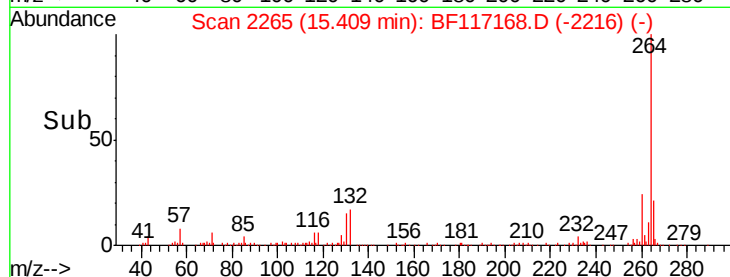
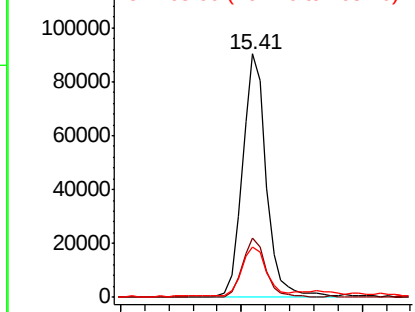


Abundance

Ion 264.00 (263.70 to 264.70): E

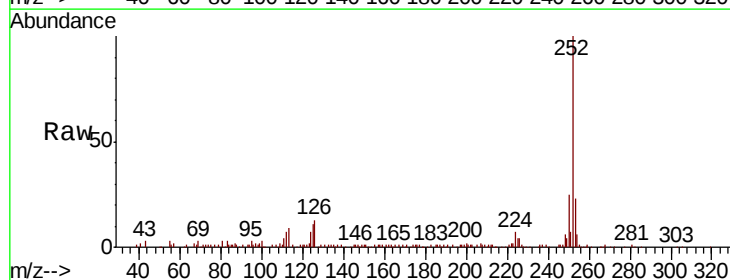
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88
Benzo(b)fluoranthene
Concen: 24.393 ng
RT: 14.99 min Scan# 2194
Delta R.T. -0.01 min
Lab File: BF117168.D
Acq: 19 Sep 2019 1:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.6	26.4
125	11.2	8.6	12.8

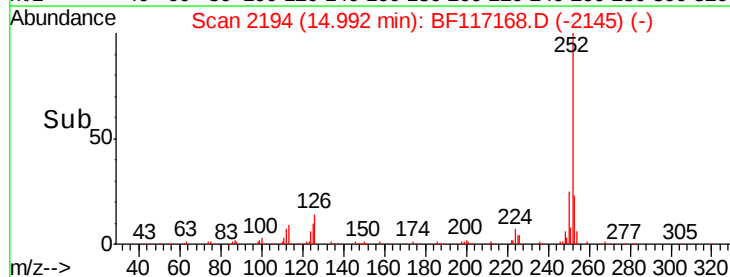
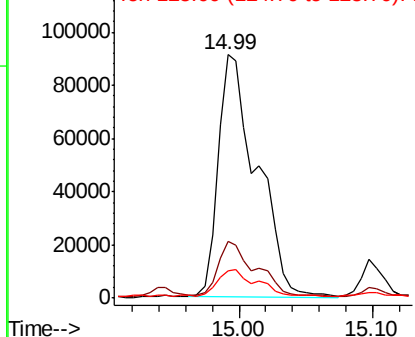


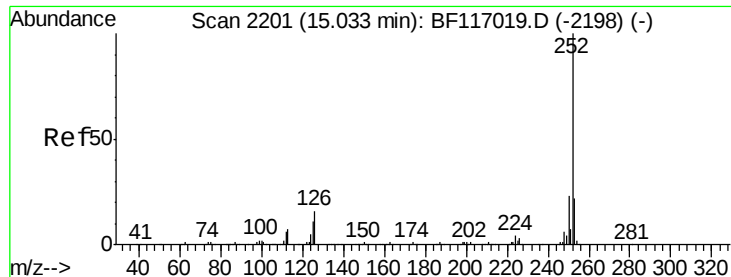
Abundance

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





#89

Benzo(k)fluoranthene

Concen: 25.751 ng

RT: 14.99 min Scan# 2194

Delta R.T. -0.04 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

Instrument :

BNA_F

ClientSampleId :

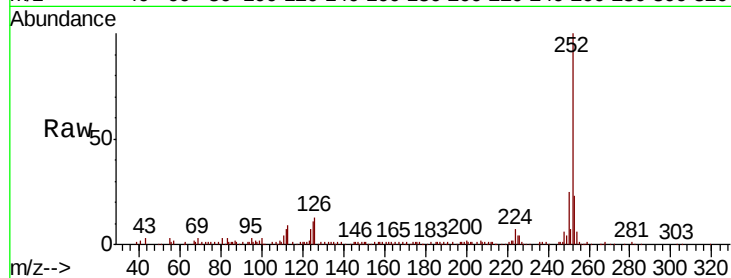
Tot Ion:252 Resp: 184339

Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.2

125 11.2 8.8 13.2

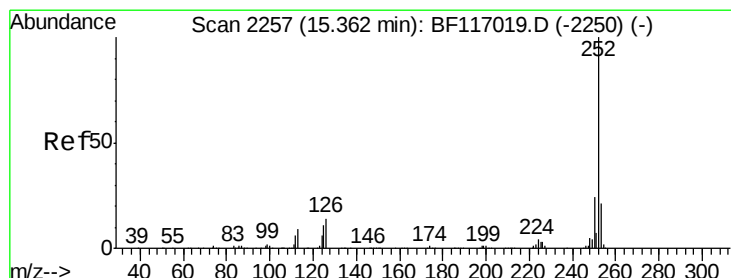
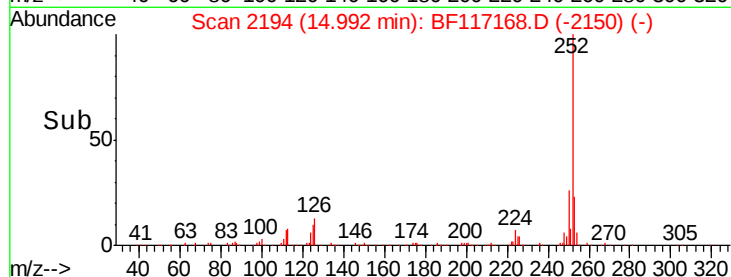
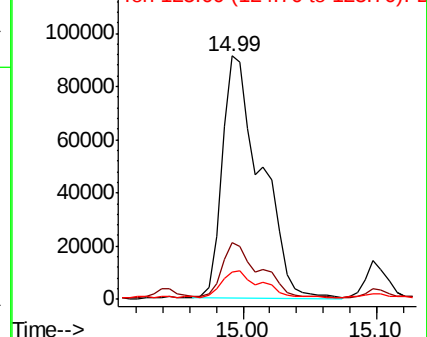


Abundance

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



#90

Benzo(a)pyrene

Concen: 13.463 ng

RT: 15.35 min Scan# 2255

Delta R.T. -0.01 min

Lab File: BF117168.D

Acq: 19 Sep 2019 1:47

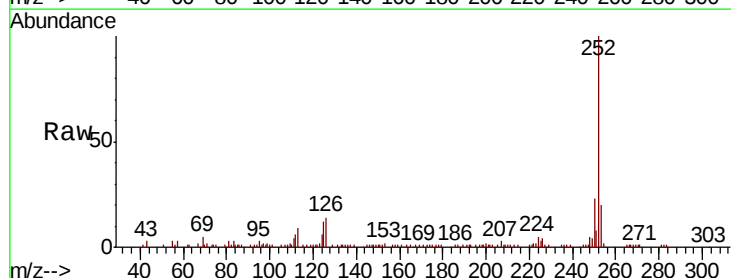
Tgt Ion:252 Resp: 89278

Ion Ratio Lower Upper

252 100

253 20.4 16.6 25.0

125 12.5 8.9 13.3

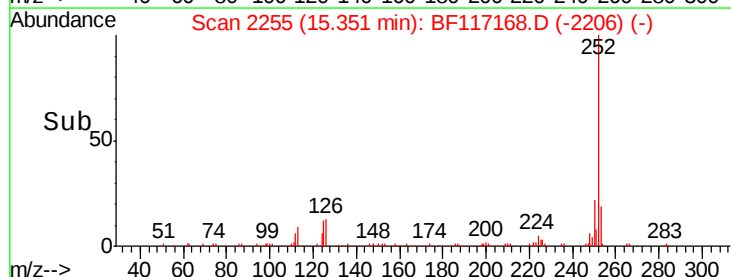
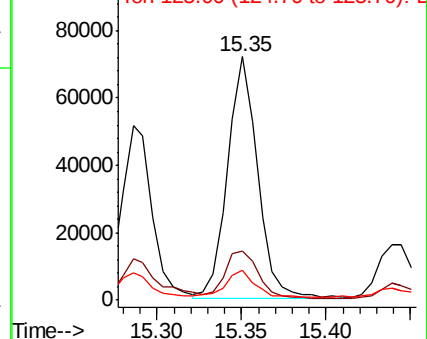


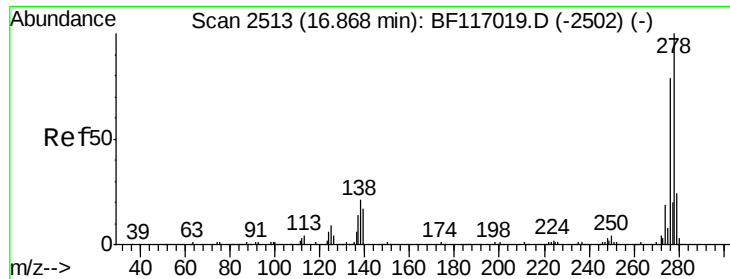
Abundance

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

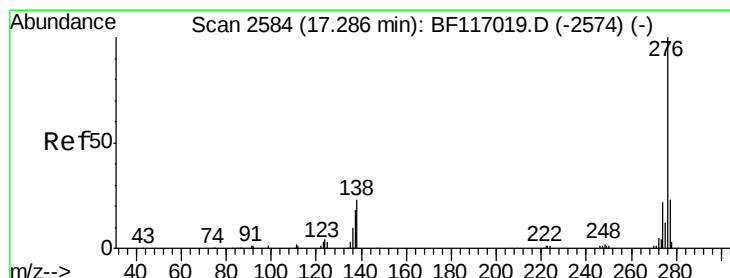
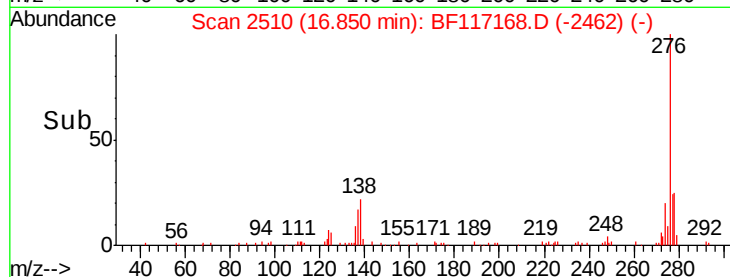
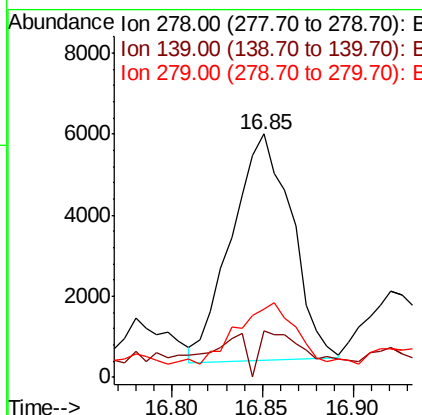
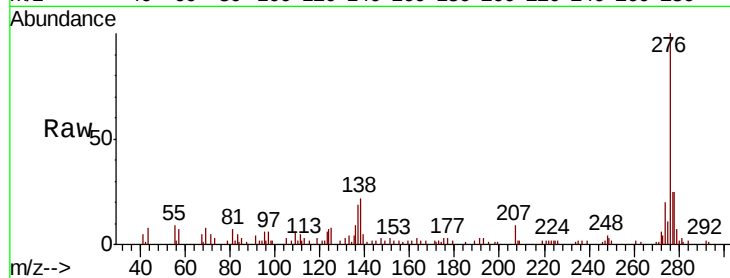




#91
Dibenzo(a,h)anthracene
Concen: 2.430 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.02 min
Lab File: BF117168.D
Acq: 19 Sep 2019 1:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.9	13.5	20.3
279	27.8	18.8	28.2



#92
Benzo(g,h,i)perylene
Concen: 8.843 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.01 min
Lab File: BF117168.D
Acq: 19 Sep 2019 1:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.6	27.8
138	21.5	18.0	27.0

