

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081117\
 Data File : BF097617.D
 Acq On : 12 Aug 2017 3:20
 Operator : SJ/JU
 Sample : I4717-01 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

Quant Time: Aug 12 03:52:41 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 11 15:55:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	86257	20.00	ng	0.00
21) Naphthalene-d8	9.54	136	310464	20.00	ng	0.00
38) Acenaphthene-d10	12.37	164	127645	20.00	ng	0.00
63) Phenanthrene-d10	14.76	188	193854	20.00	ng	0.00
75) Chrysene-d12	18.46	240	169607	20.00	ng	0.00
86) Perylene-d12	20.13	264	168233	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	1169	0.22	ng	0.24
7) Phenol-d6	7.25	99	2688	0.40	ng	0.19
23) Nitrobenzene-d5	8.52	82	967	0.20	ng	0.10
41) 2,4,6-Tribromophenol	13.70	330	844	0.87	ng	0.04
44) 2-Fluorobiphenyl	11.33	172	12130	1.43	ng	0.00
78) Terphenyl-d14	17.12	244	7893	0.96	ng	0.00

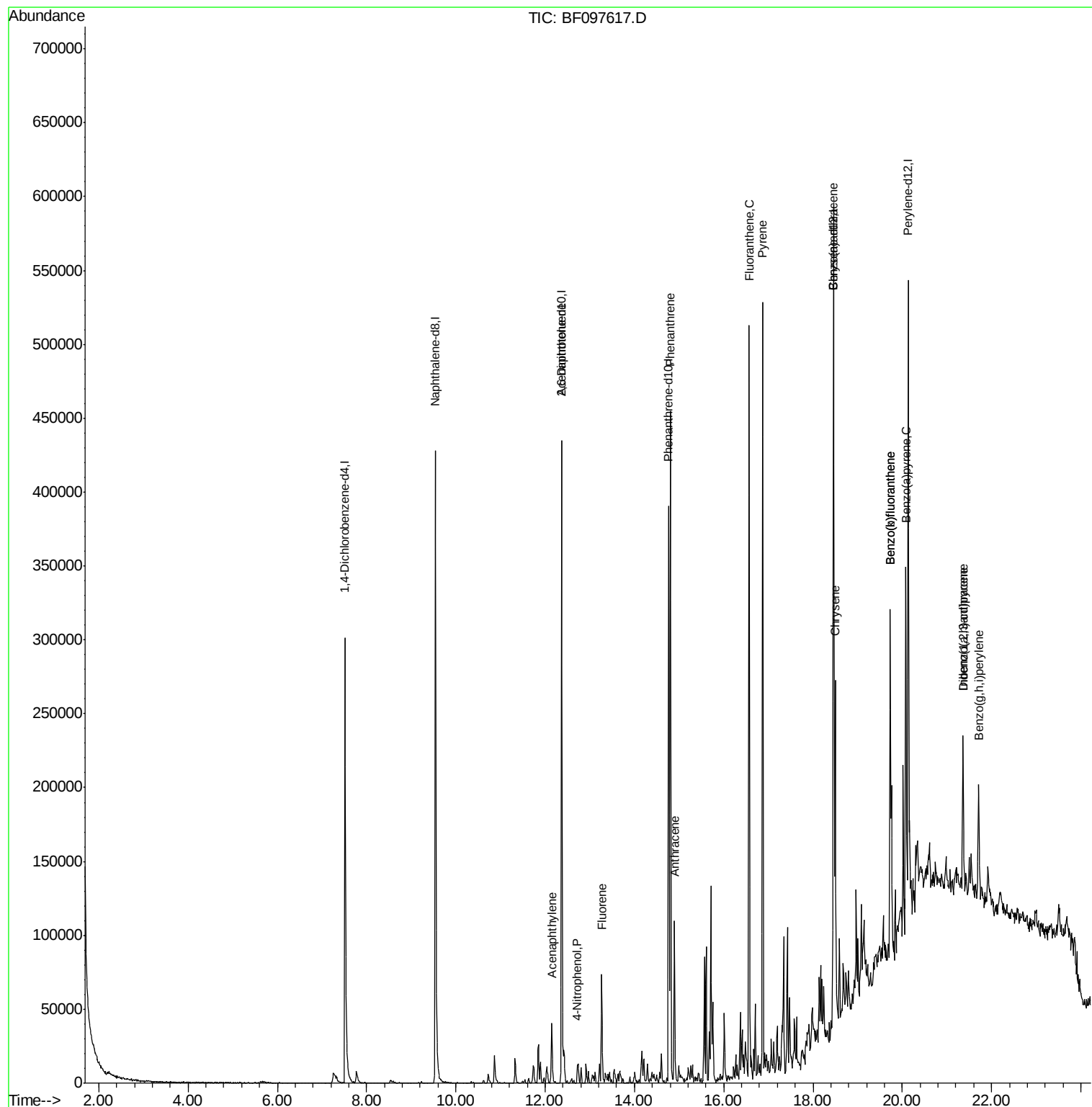
Target Compounds				Qvalue		
48) Acenaphthylene	12.15	152	31587	2.36	ng	97
50) 2,6-Dinitrotoluene	12.37	165	16111	7.93	ng	# 31
55) 4-Nitrophenol	12.72	139	3362	3.32	ng	# 25
57) Fluorene	13.26	166	29351	3.18	ng	96
70) Phenanthrene	14.80	178	242800	21.75	ng	99
71) Anthracene	14.89	178	66676	5.84	ng	98
74) Fluoranthene	16.57	202	251977	24.98	ng	100
77) Pyrene	16.87	202	221312	15.78	ng	97
80) Benzo(a)anthracene	18.45	228	116702	11.78	ng	94
82) Chrysene	18.50	228	103134	10.47	ng	97
85) Indeno(1,2,3-cd)pyrene	21.36	276	54849	7.16	ng	97
87) Benzo(b)fluoranthene	19.73	252	165808	16.41	ng	97
88) Benzo(k)fluoranthene	19.73	252	165808	16.30	ng	96
89) Benzo(a)pyrene	20.08	252	104947	11.32	ng	96
90) Dibenzo(a,h)anthracene	21.36	278	14335	2.16	ng	# 77
91) Benzo(g,h,i)perylene	21.71	276	51906	7.13	ng	93

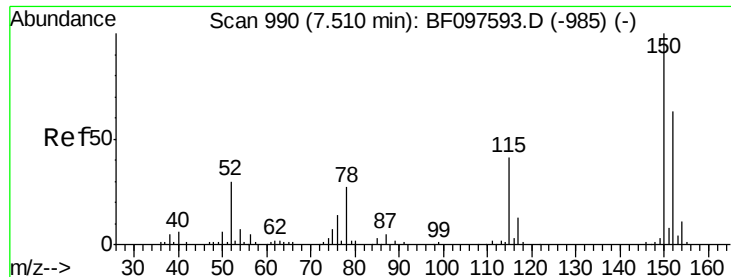
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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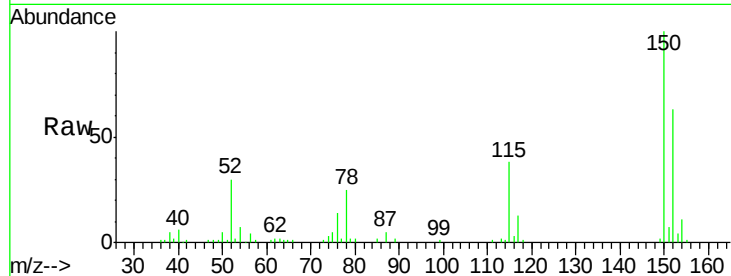


#1

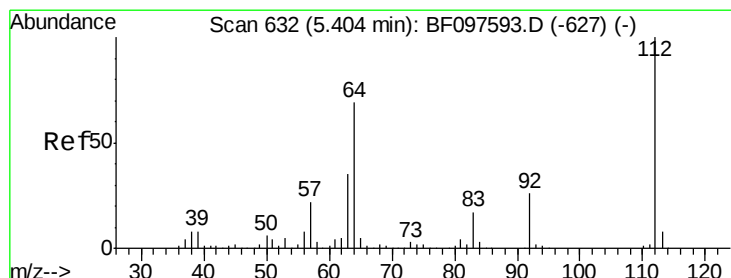
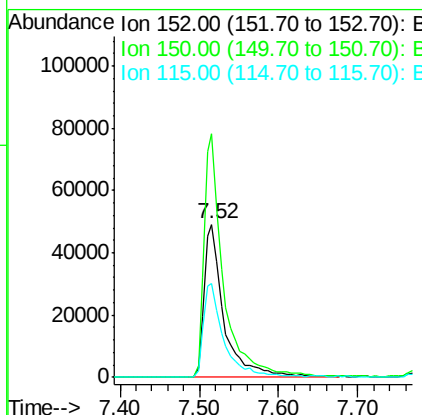
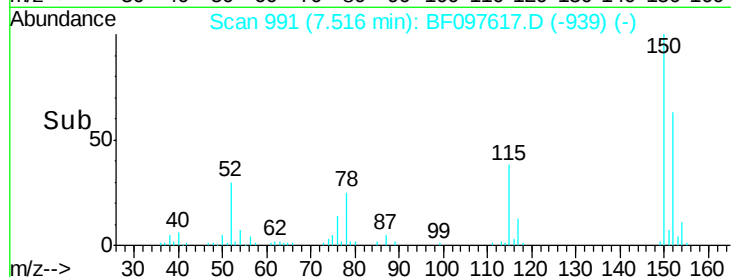
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.52 min Scan# 991
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Instrument :
BNA_F
ClientSampleId :
OK-02-081017

Tot Ion:152 Resp: 86257
Ion Ratio Lower Upper
152 100
150 159.3 126.2 189.2
115 61.3 52.2 78.2



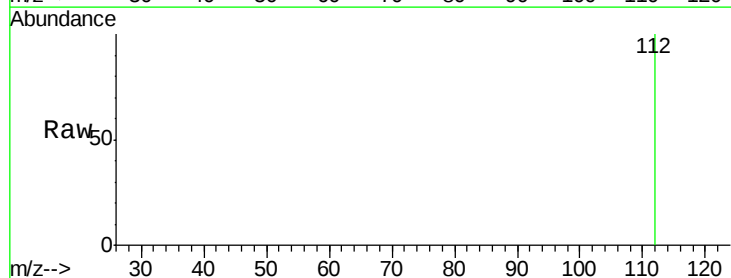
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



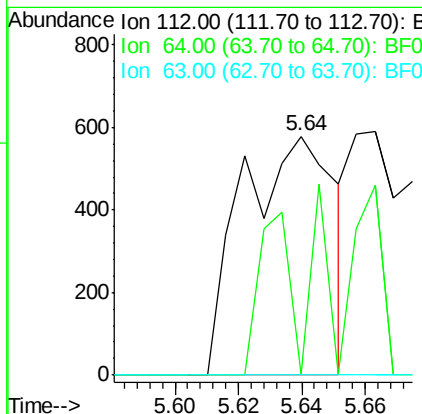
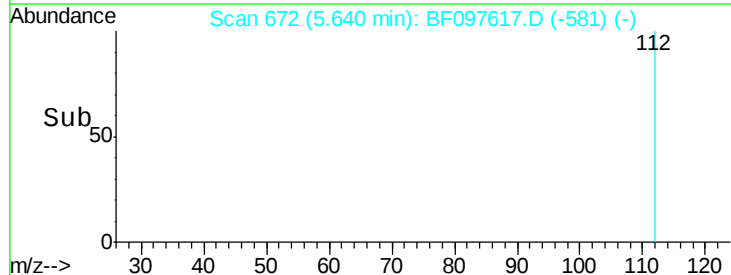
#5

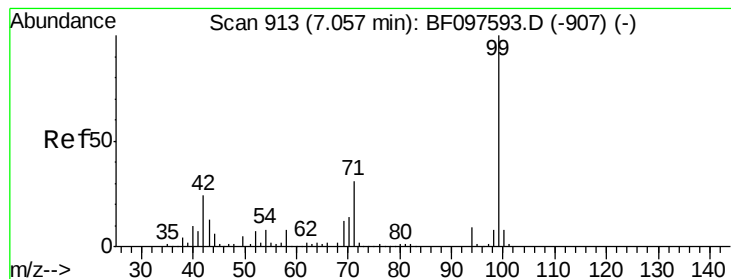
2-Fluorophenol
Concen: 0.22 ng
RT: 5.64 min Scan# 672
Delta R.T. 0.24 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Tgt Ion:112 Resp: 1169
Ion Ratio Lower Upper
112 100
64 0.0 46.0 69.0#
63 0.0 23.4 35.0#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 0.40 ng

RT: 7.25 min Scan# 946

Delta R.T. 0.19 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

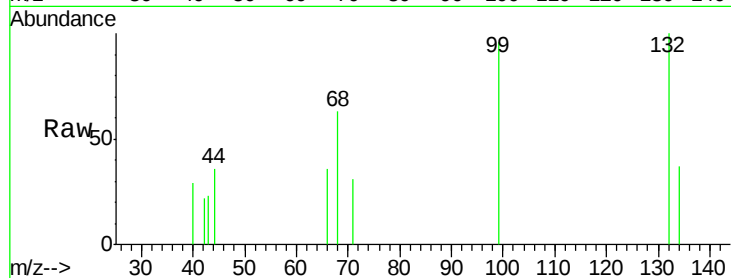
BNA_F

ClientSampleId :

OK-02-081017

Tot Ion: 99 Resp: 2688

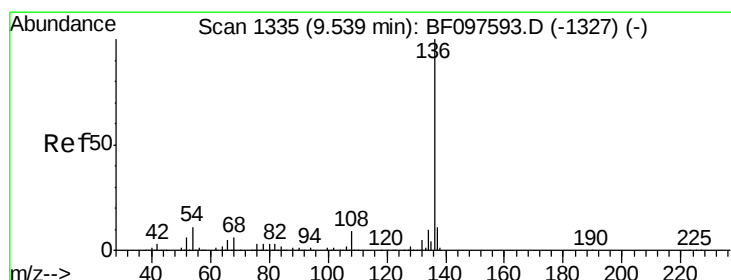
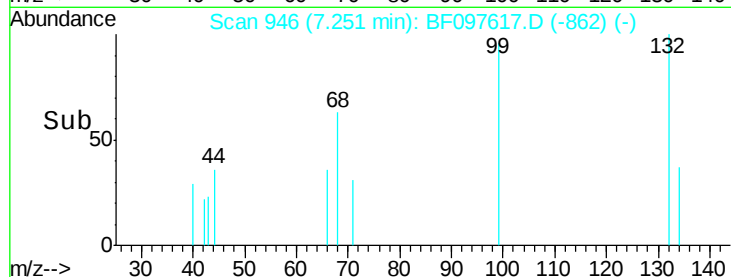
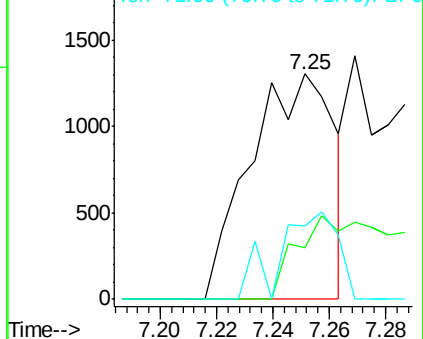
Ion	Ratio	Lower	Upper
99	100		
42	23.1	13.5	20.3#
71	32.4	24.5	36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.54 min Scan# 1335

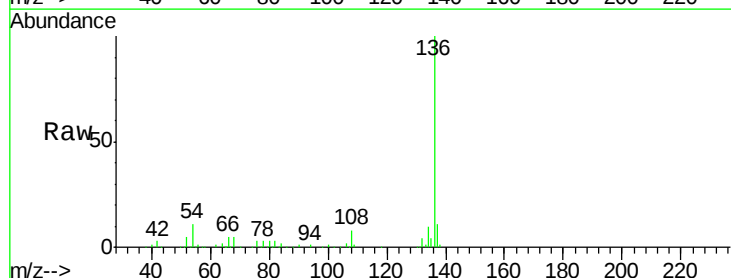
Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Tgt Ion: 136 Resp: 310464

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	11.1	4.9	7.3#
68	5.1	4.1	6.1

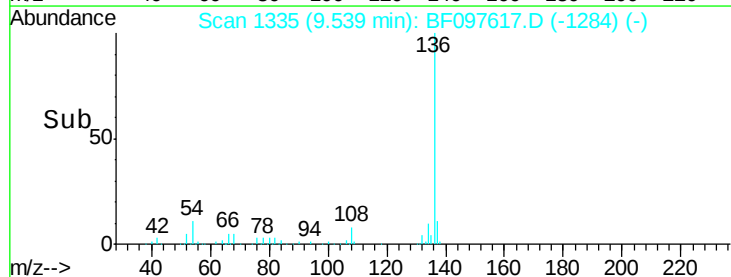
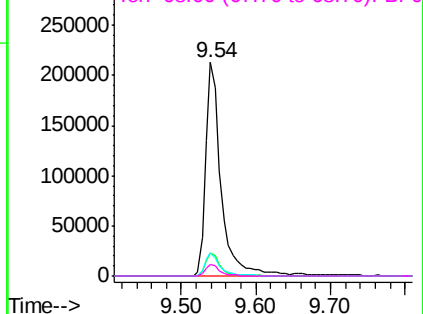


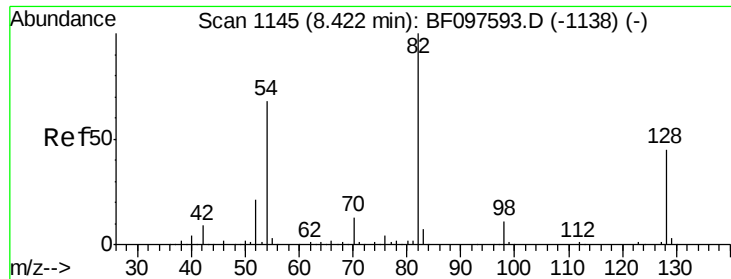
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

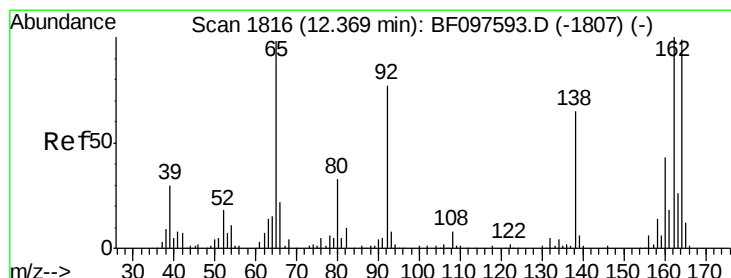
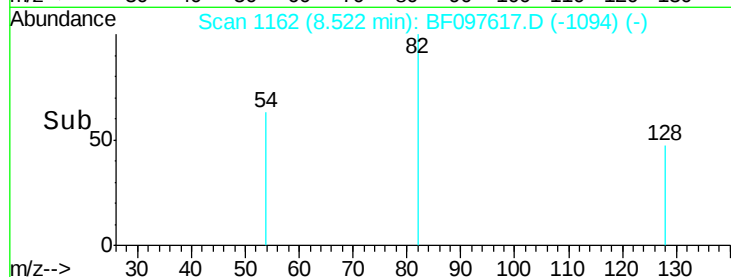
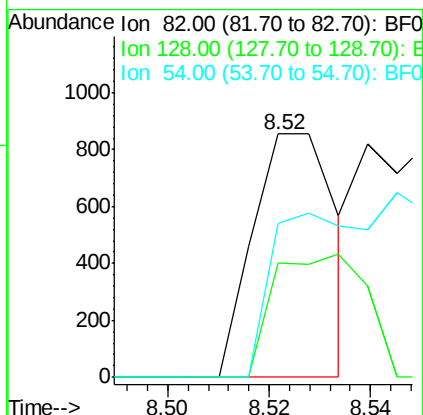
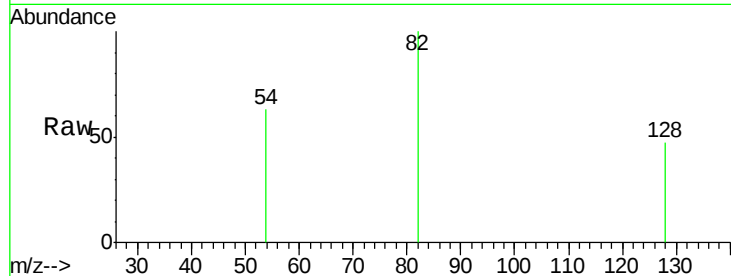




#23
Nitrobenzene-d5
Concen: 0.20 ng
RT: 8.52 min Scan# 1162
Delta R.T. 0.10 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

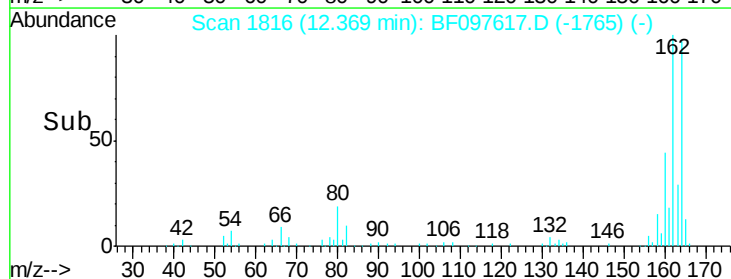
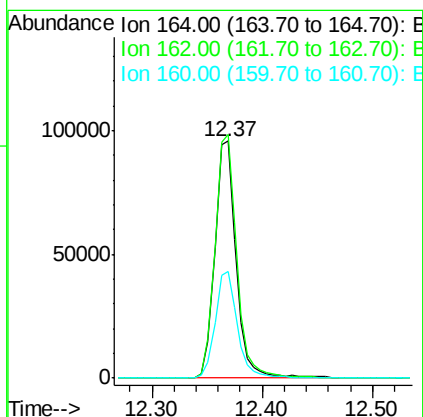
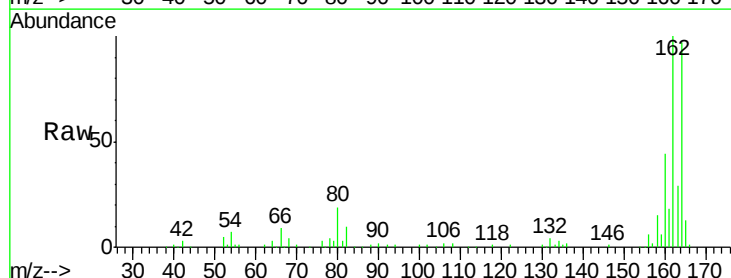
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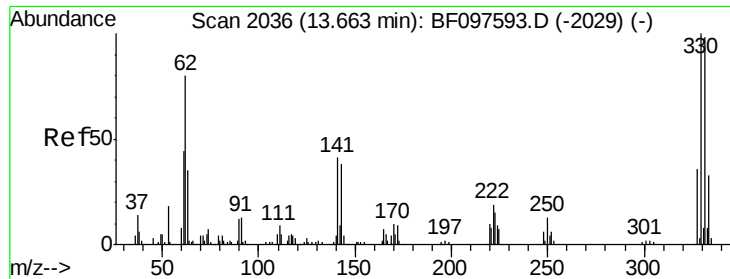
Tot Ion: 82 Resp: 967
Ion Ratio Lower Upper
82 100
128 46.7 34.0 51.0
54 63.0 42.2 63.2



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.37 min Scan# 1816
Delta R.T. 0.00 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Tgt Ion: 164 Resp: 127645
Ion Ratio Lower Upper
164 100
162 102.7 82.6 123.8
160 45.0 36.2 54.2

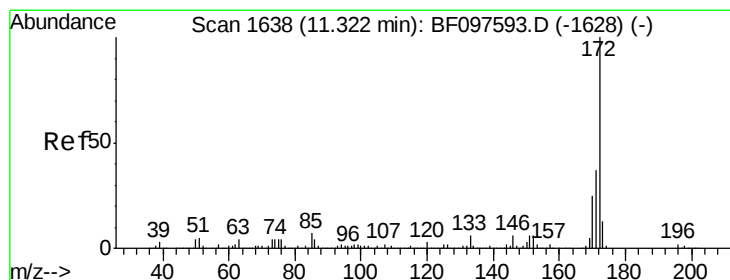
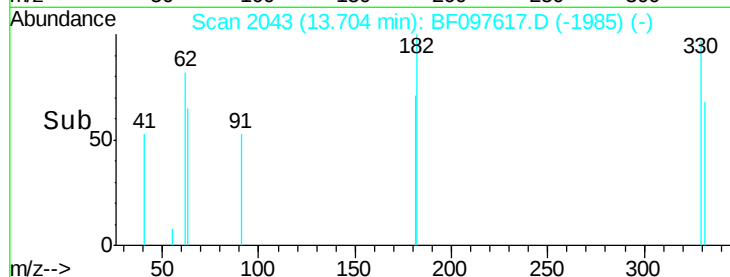
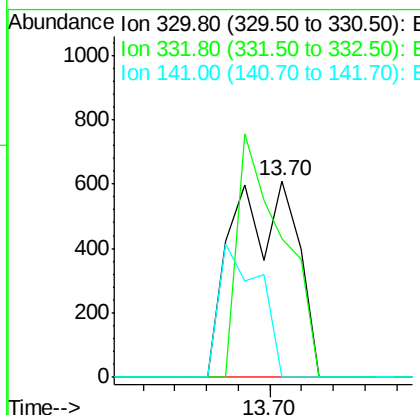
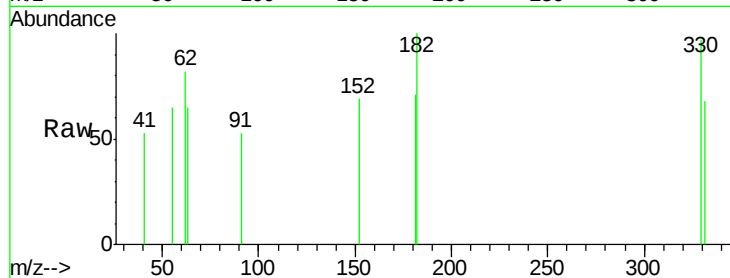




#41
 2,4,6-Tribromophenol
 Concen: 0.87 ng
 RT: 13.70 min Scan# 2043
 Delta R.T. 0.04 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

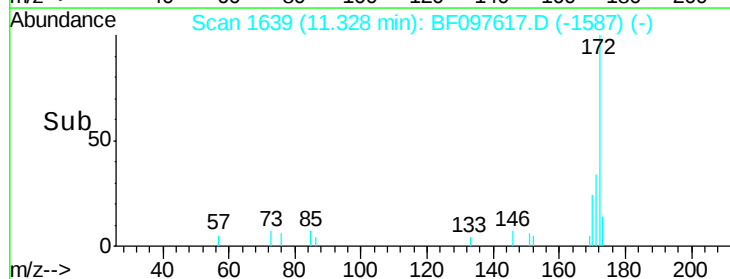
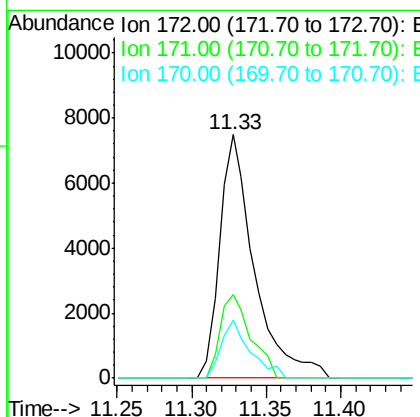
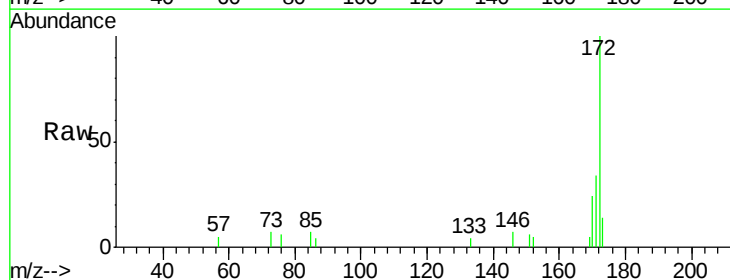
Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

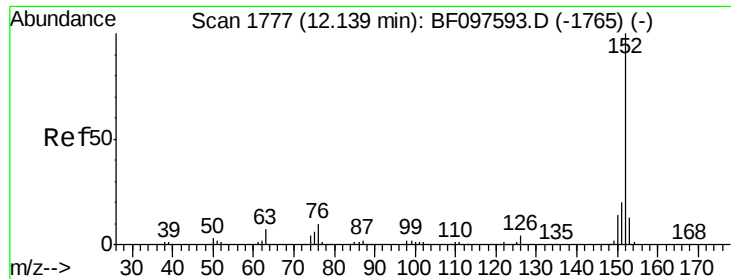
Tot Ion:330 Resp: 844
 Ion Ratio Lower Upper
 330 100
 332 87.8 76.6 115.0
 141 43.2 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 1.43 ng
 RT: 11.33 min Scan# 1639
 Delta R.T. 0.01 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion:172 Resp: 12130
 Ion Ratio Lower Upper
 172 100
 171 34.4 29.6 44.4
 170 23.8 19.8 29.8





#48

Acenaphthylene

Concen: 2.36 ng

RT: 12.15 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

BNA_F

ClientSampleId :

OK-02-081017

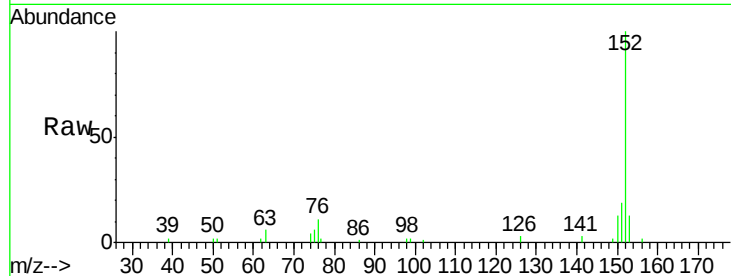
Tot Ion:152 Resp: 31587

Ion Ratio Lower Upper

152 100

151 18.9 16.8 25.2

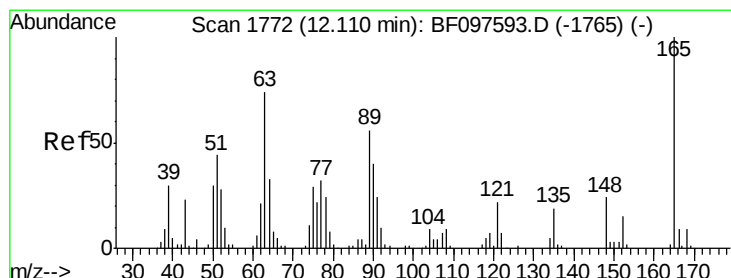
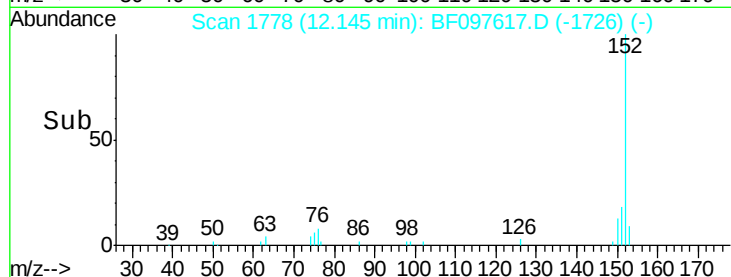
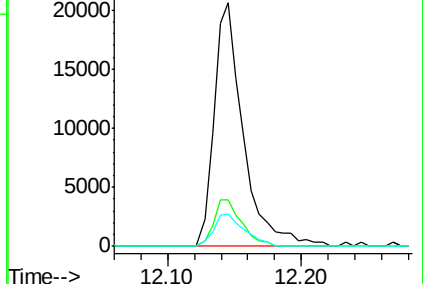
153 13.1 10.8 16.2



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

2,6-Dinitrotoluene

Concen: 7.93 ng

RT: 12.37 min Scan# 1816

Delta R.T. 0.26 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

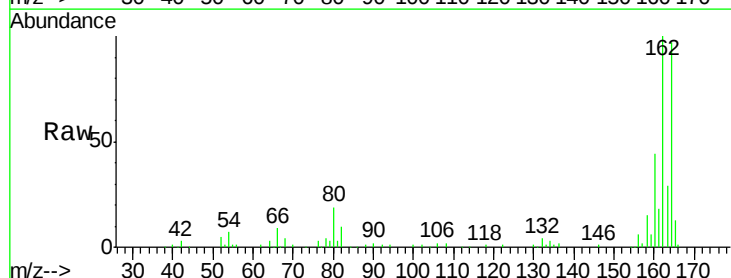
Tgt Ion:165 Resp: 16111

Ion Ratio Lower Upper

165 100

63 0.0 34.3 51.5#

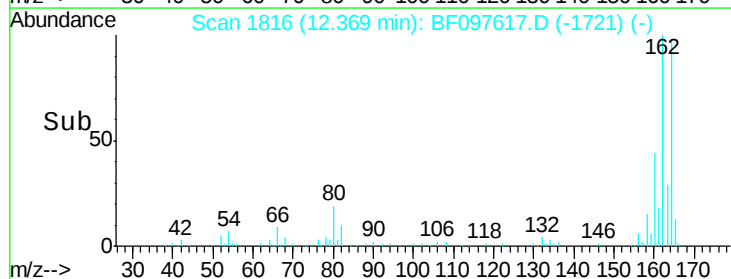
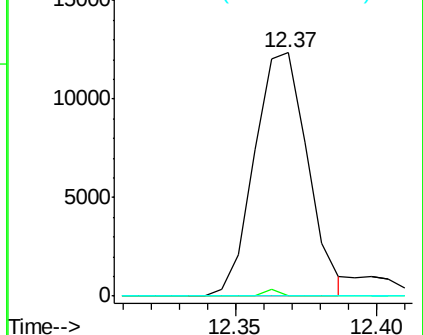
89 0.0 37.1 55.7#

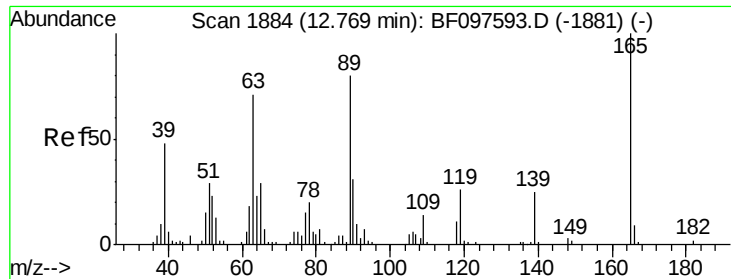


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

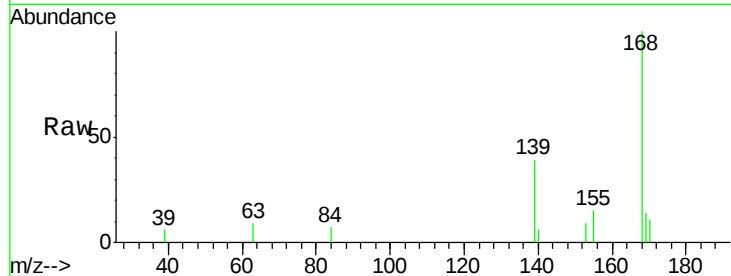




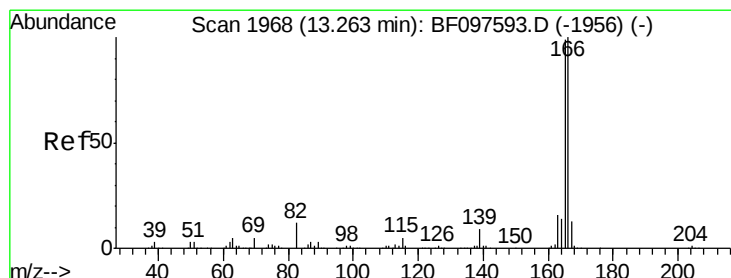
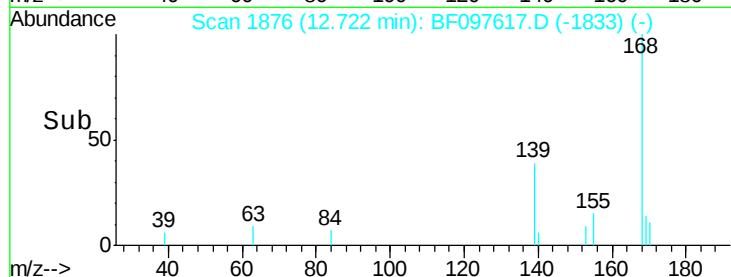
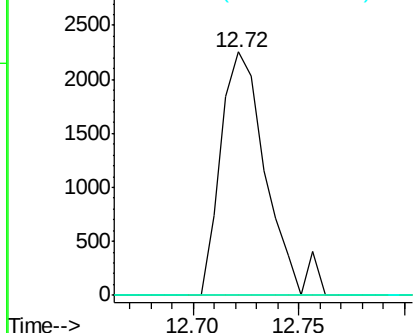
#55
4-Nitrophenol
Concen: 3.32 ng
RT: 12.72 min Scan# 1876
Delta R.T. -0.05 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Instrument :
BNA_F
ClientSampleId :
OK-02-081017

Tot Ion:139 Resp: 3362
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 0.0 31.4 71.4#

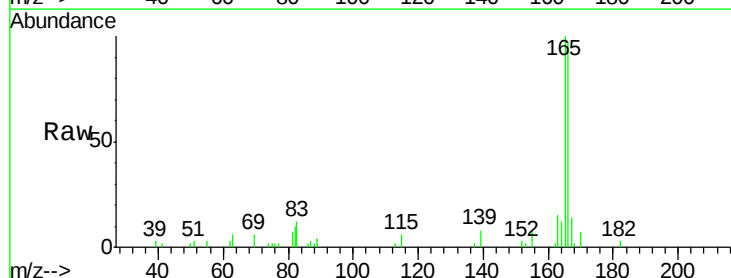


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

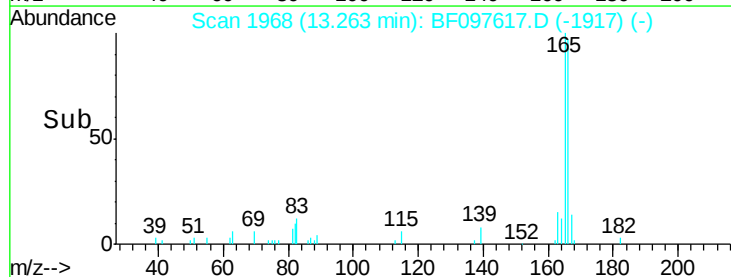
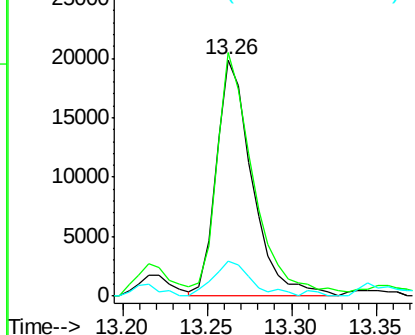


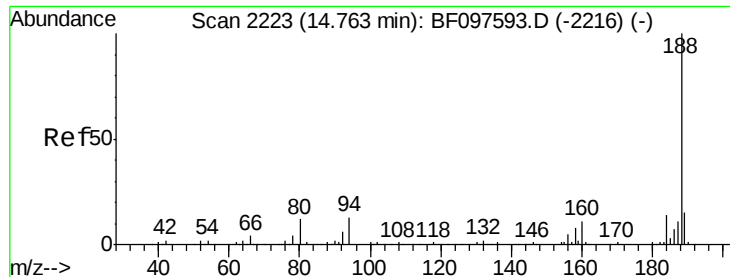
#57
Fluorene
Concen: 3.18 ng
RT: 13.26 min Scan# 1968
Delta R.T. 0.00 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Tgt Ion:166 Resp: 29351
Ion Ratio Lower Upper
166 100
165 103.0 78.8 118.2
167 14.7 10.6 16.0



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

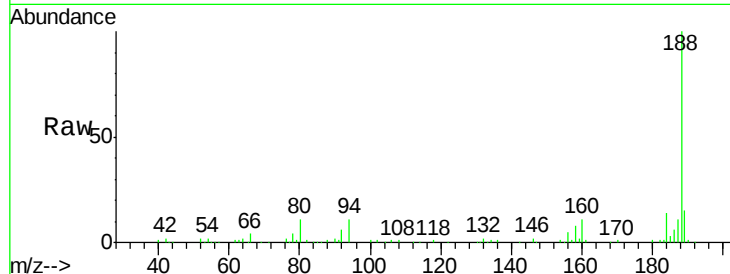




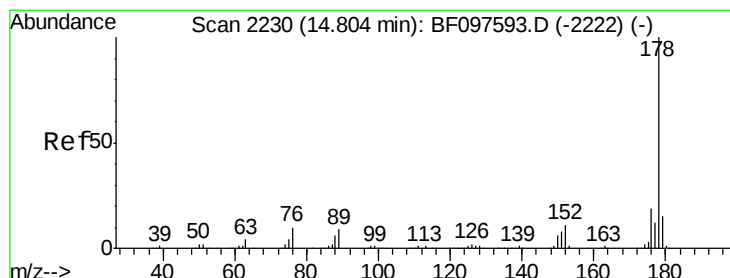
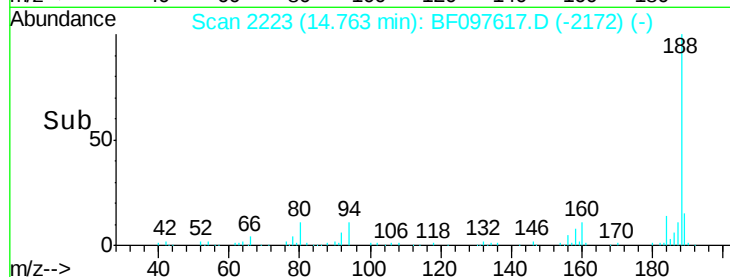
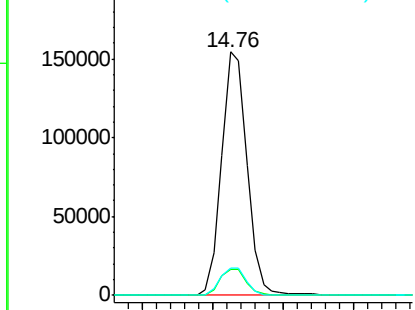
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.76 min Scan# 2223
 Delta R.T. 0.00 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.8	9.4	14.2
80	11.2	10.2	15.2

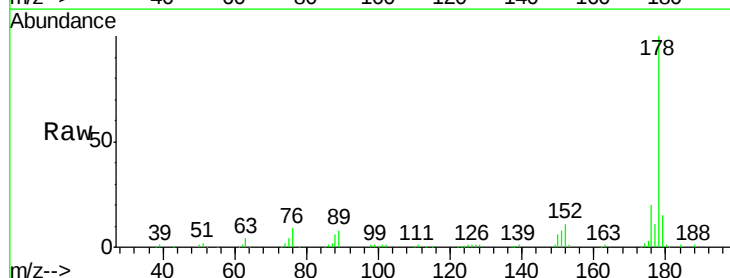


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

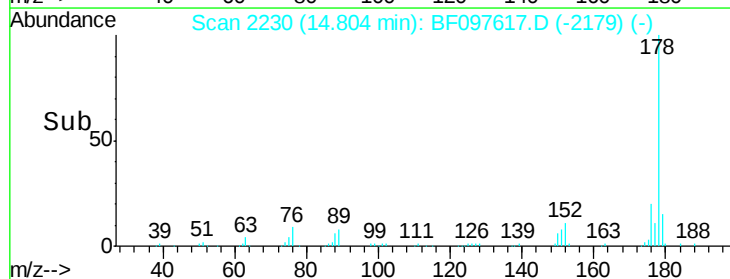
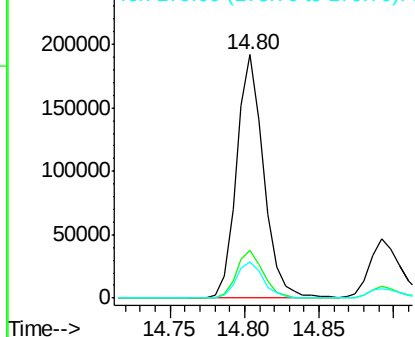


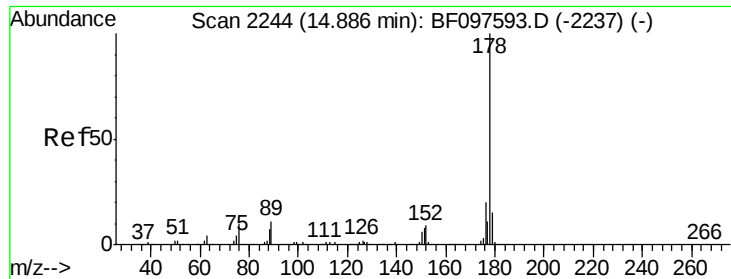
#70
 Phenanthrene
 Concen: 21.75 ng
 RT: 14.80 min Scan# 2230
 Delta R.T. 0.00 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.2	24.4
179	15.0	12.6	19.0



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

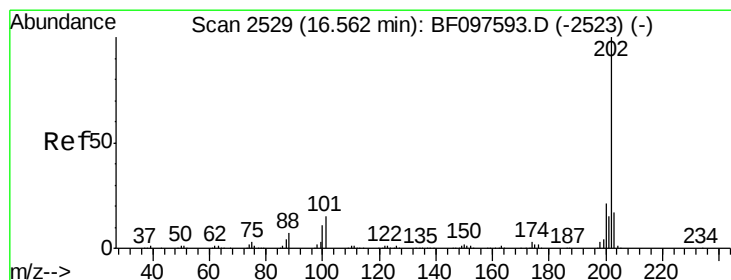
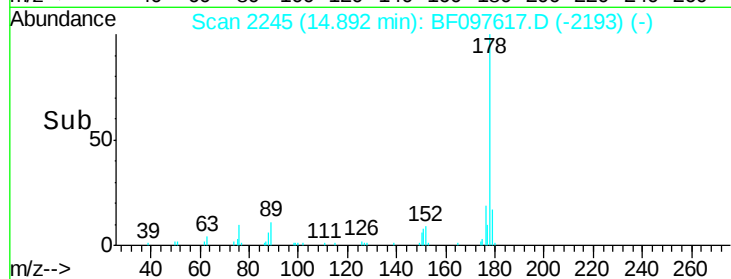
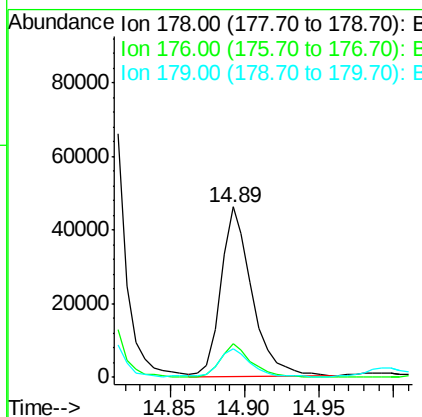
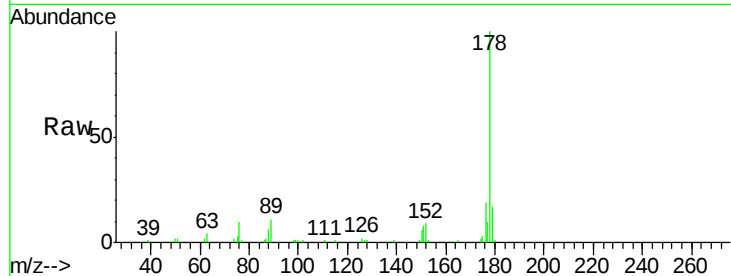




#71
 Anthracene
 Concen: 5.84 ng
 RT: 14.89 min Scan# 2245
 Delta R.T. 0.01 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

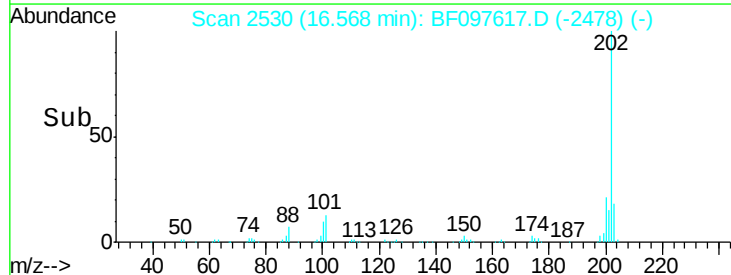
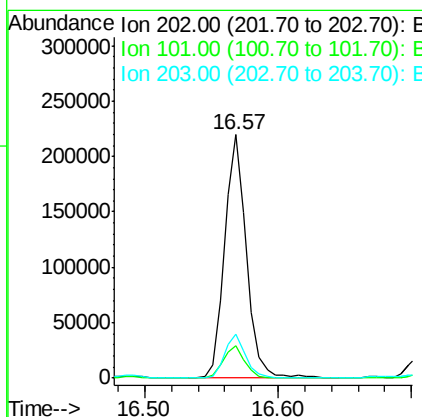
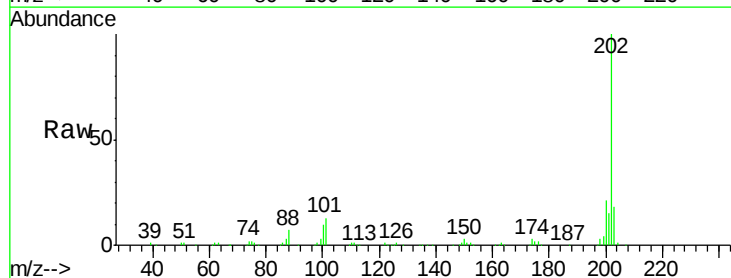
Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

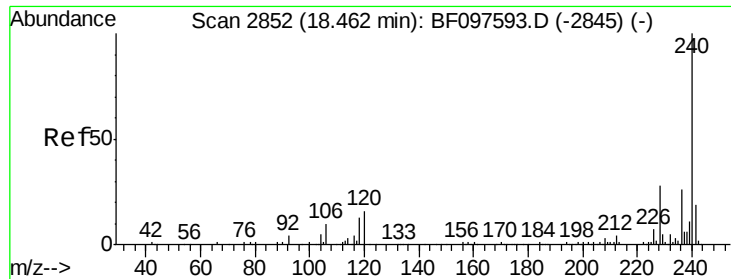
Tot Ion:178 Resp: 66676
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.8 23.8
 179 16.9 12.7 19.1



#74
 Fluoranthene
 Concen: 24.98 ng
 RT: 16.57 min Scan# 2530
 Delta R.T. 0.01 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion:202 Resp: 251977
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 33.2
 203 18.0 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.46 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

BNA_F

ClientSampleId :

OK-02-081017

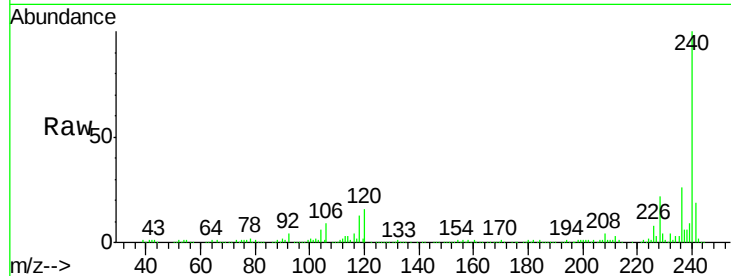
Tot Ion:240 Resp: 169607

Ion Ratio Lower Upper

240 100

120 15.7 5.8 8.8#

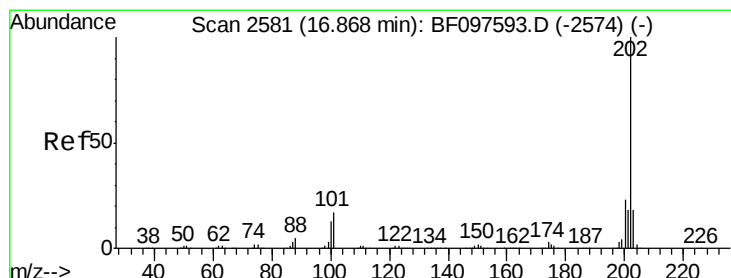
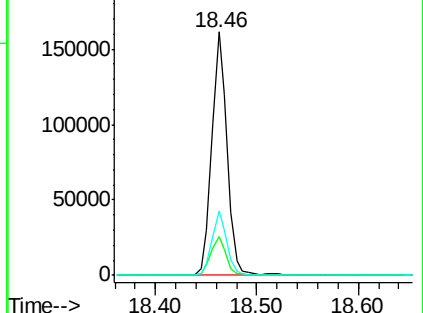
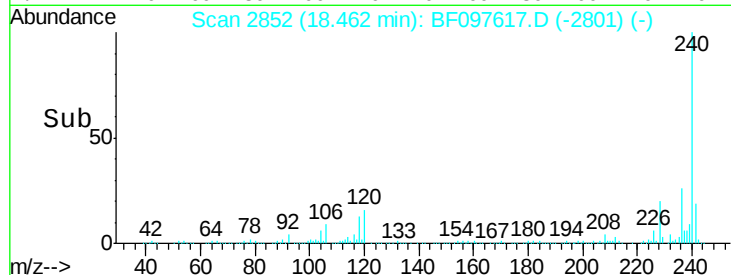
236 26.2 20.5 30.7



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



#77

Pyrene

Concen: 15.78 ng

RT: 16.87 min Scan# 2581

Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

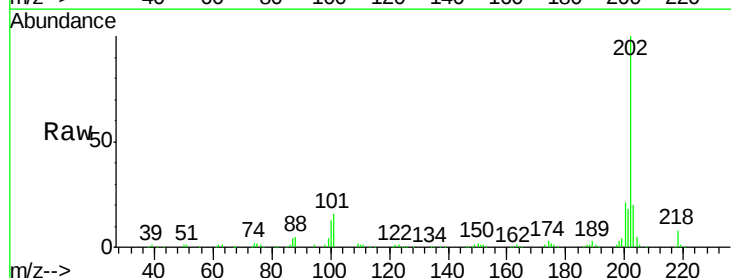
Tgt Ion:202 Resp: 221312

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

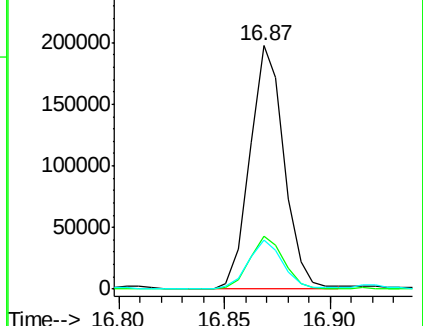
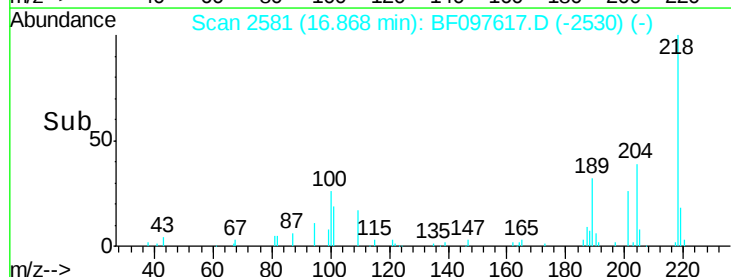
203 20.1 14.4 21.6

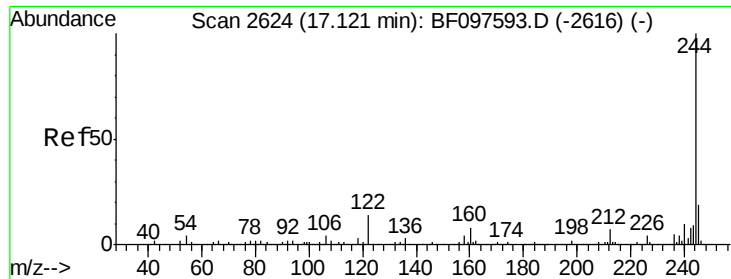


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

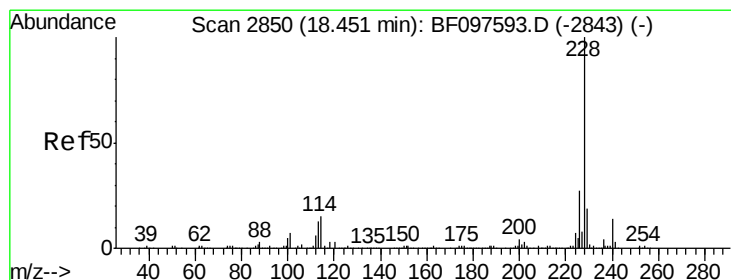
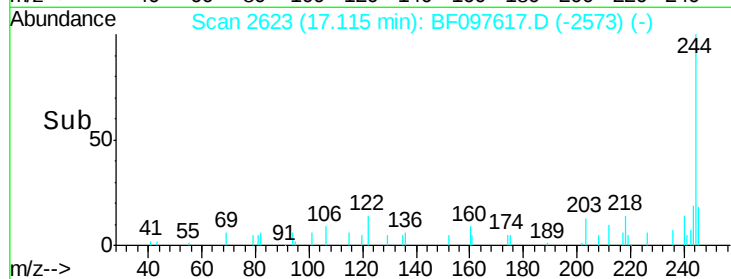
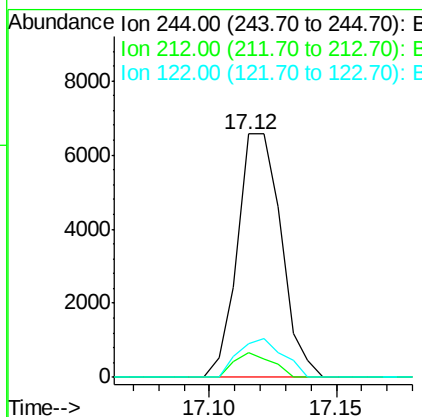
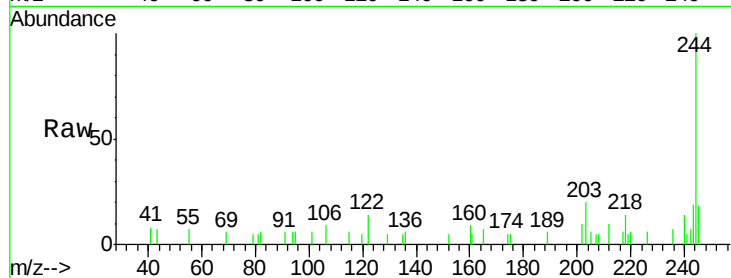




#78
 Terphenyl-d14
 Concen: 0.96 ng
 RT: 17.12 min Scan# 2623
 Delta R.T. -0.01 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

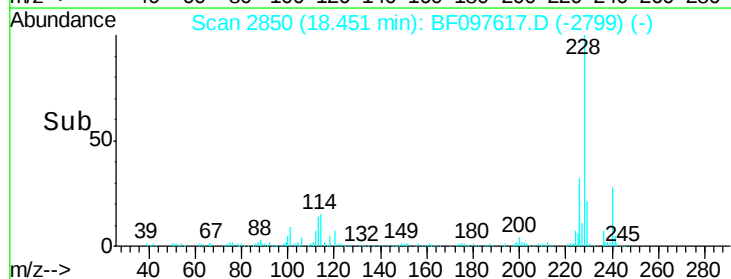
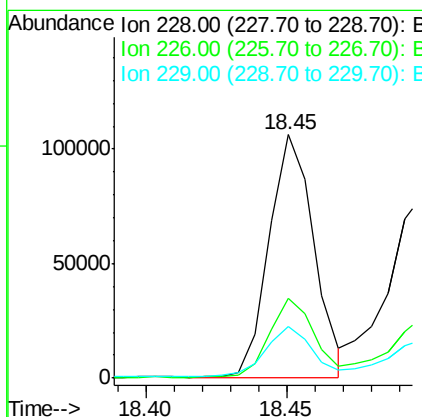
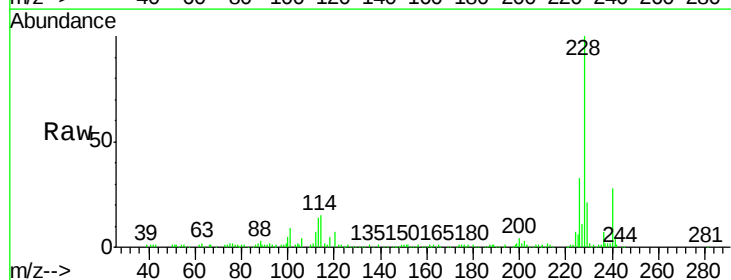
Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

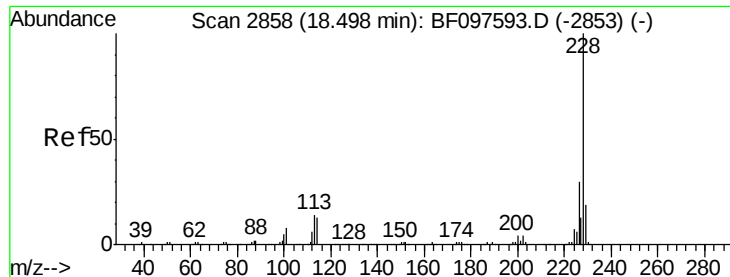
Tot Ion	Ratio	Lower	Upper
244	100		
212	10.0	6.0	9.0#
122	14.1	10.3	15.5



#80
 Benzo(a)anthracene
 Concen: 11.78 ng
 RT: 18.45 min Scan# 2850
 Delta R.T. 0.00 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.6	22.6	33.8
229	21.1	16.3	24.5





#82

Chrysene

Concen: 10.47 ng

RT: 18.50 min Scan# 2858

Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

BNA_F

ClientSampleId :

OK-02-081017

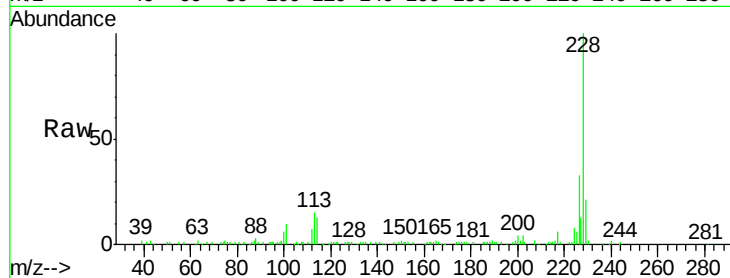
Tot Ion:228 Resp: 103134

Ion Ratio Lower Upper

228 100

226 32.7 24.9 37.3

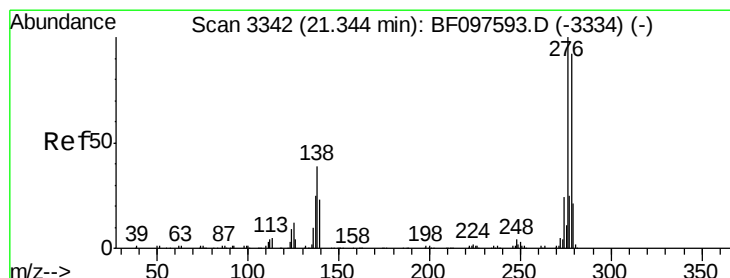
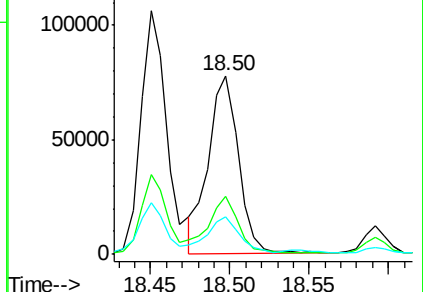
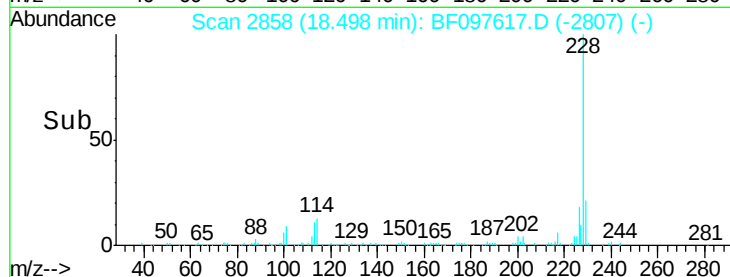
229 21.0 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.16 ng

RT: 21.36 min Scan# 3344

Delta R.T. 0.01 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

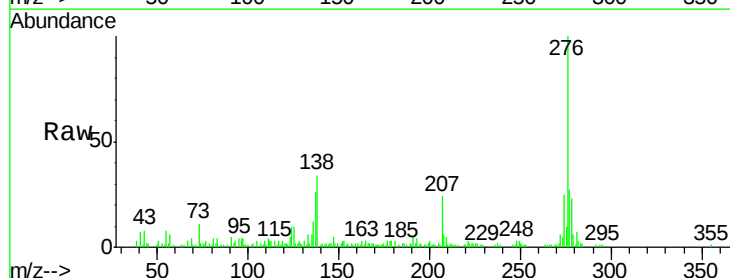
Tgt Ion:276 Resp: 54849

Ion Ratio Lower Upper

276 100

138 33.0 27.8 41.6

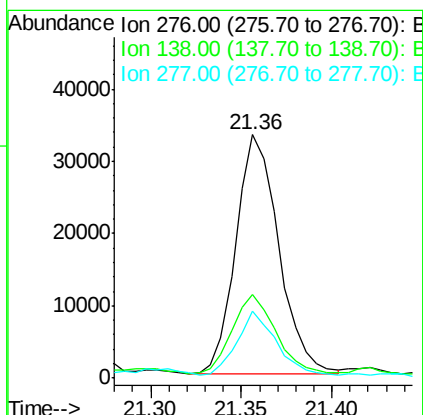
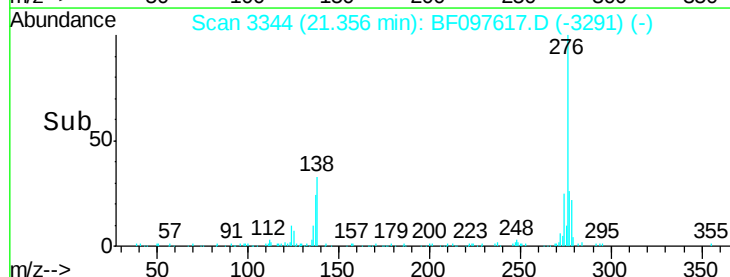
277 26.4 20.2 30.4

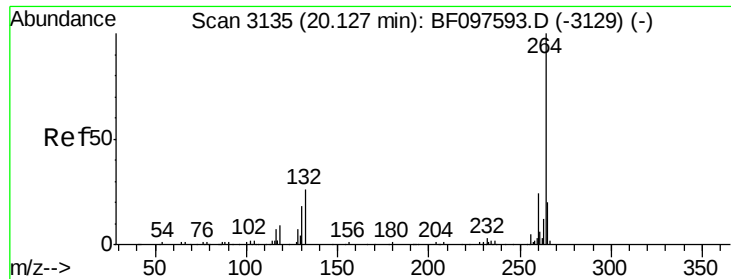


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

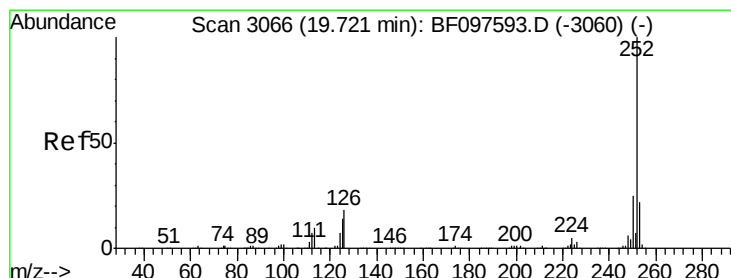
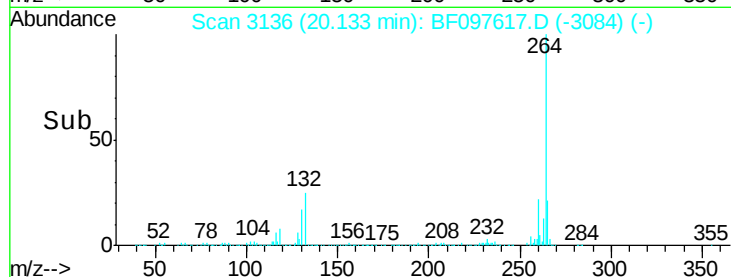
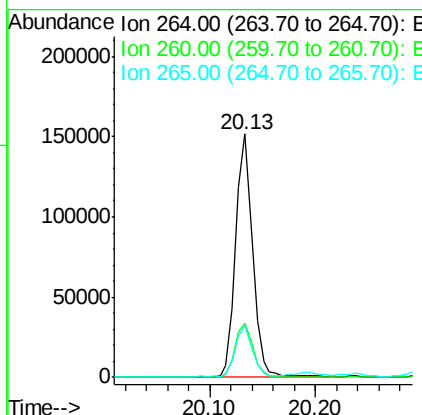
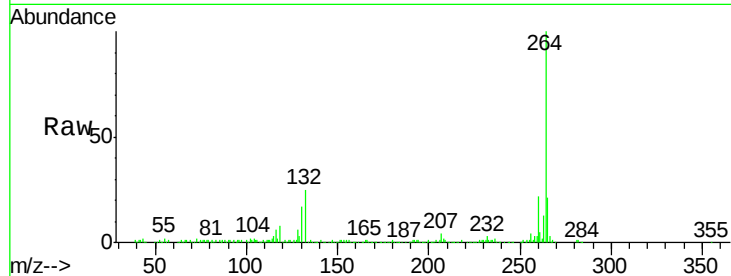




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.13 min Scan# 3136
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

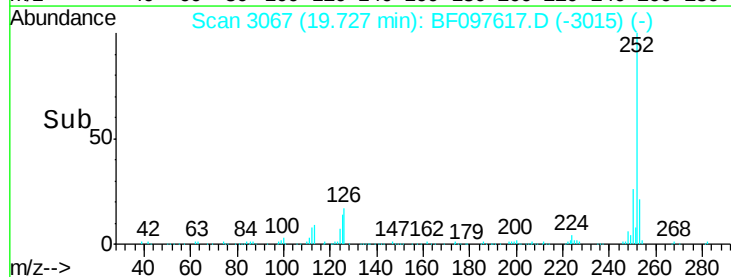
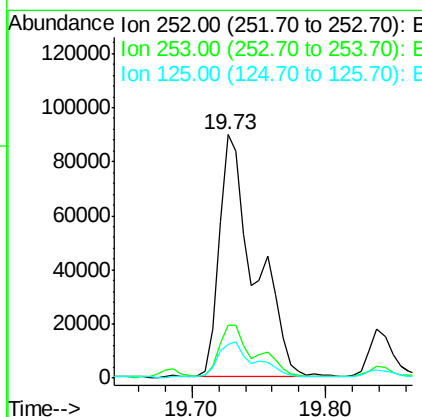
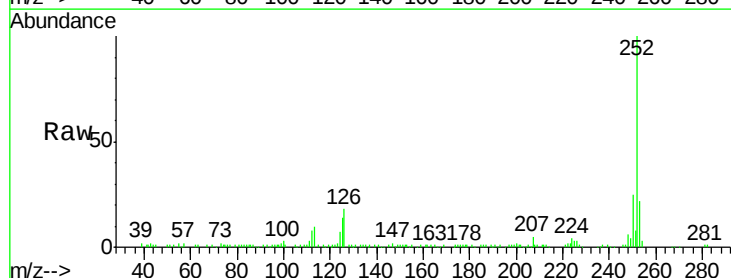
Instrument :
BNA_F
ClientSampleId :
OK-02-081017

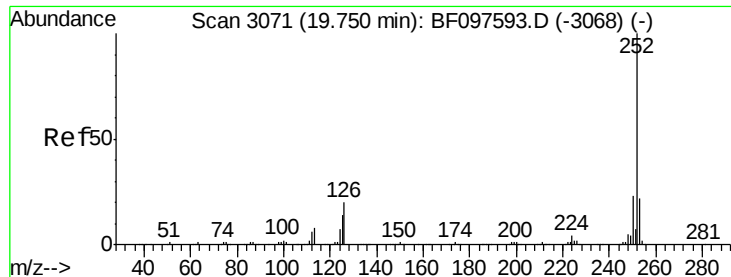
Tot Ion:264 Resp: 168233
Ion Ratio Lower Upper
264 100
260 22.1 19.5 29.3
265 21.2 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 16.41 ng
RT: 19.73 min Scan# 3067
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Tgt Ion:252 Resp: 165808
Ion Ratio Lower Upper
252 100
253 21.6 18.1 27.1
125 14.1 9.8 14.8





#88

Benzo(k)fluoranthene

Concen: 16.30 ng

RT: 19.73 min Scan# 3067

Delta R.T. -0.02 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

BNA_F

ClientSampleId :

OK-02-081017

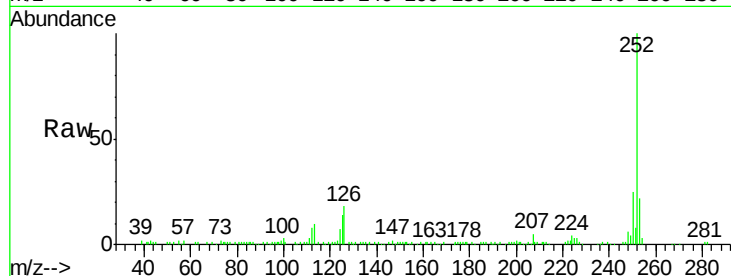
Tot Ion:252 Resp: 165808

Ion Ratio Lower Upper

252 100

253 21.6 18.4 27.6

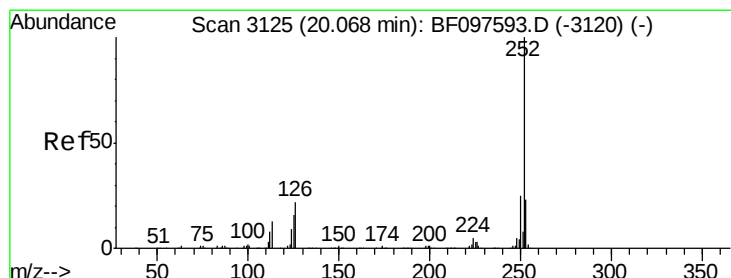
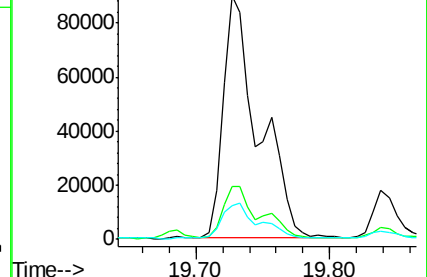
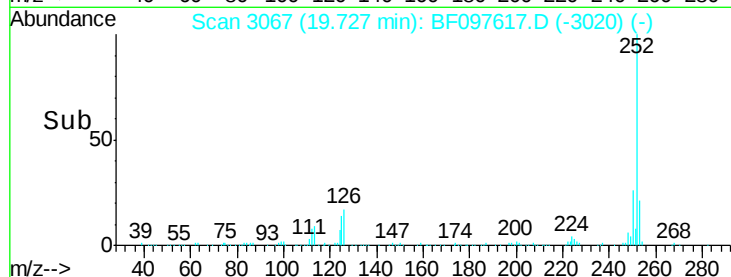
125 14.1 13.1 19.7



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



#89

Benzo(a)pyrene

Concen: 11.32 ng

RT: 20.08 min Scan# 3127

Delta R.T. 0.01 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

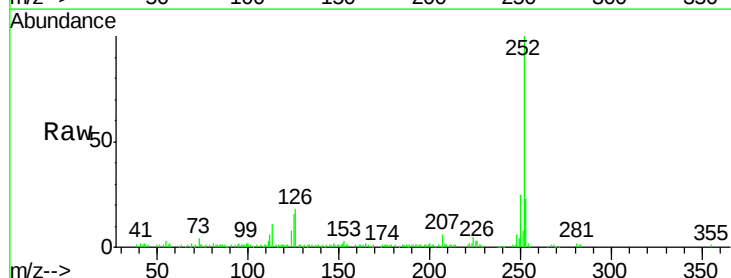
Tgt Ion:252 Resp: 104947

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

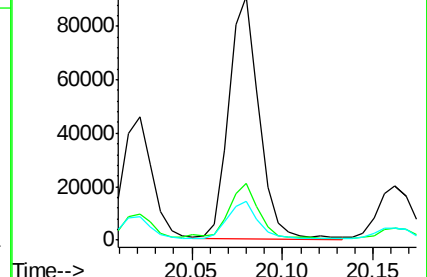
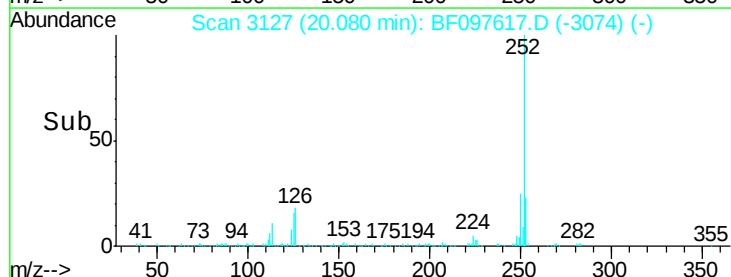
125 15.8 11.0 16.4

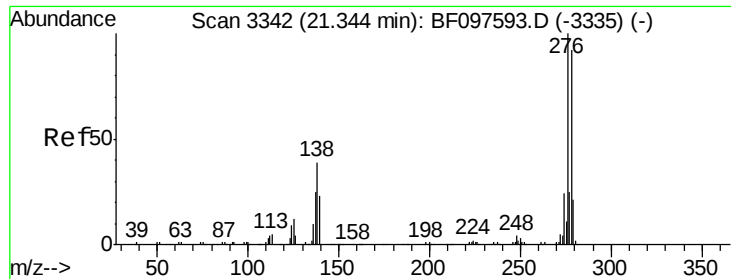


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

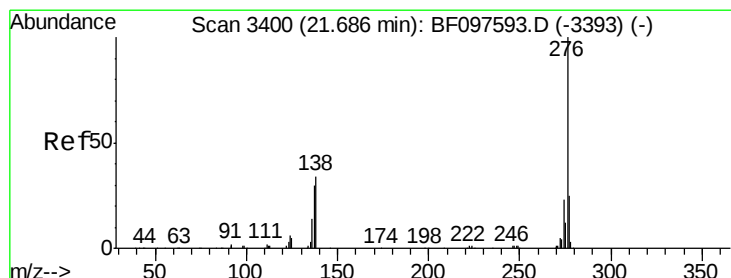
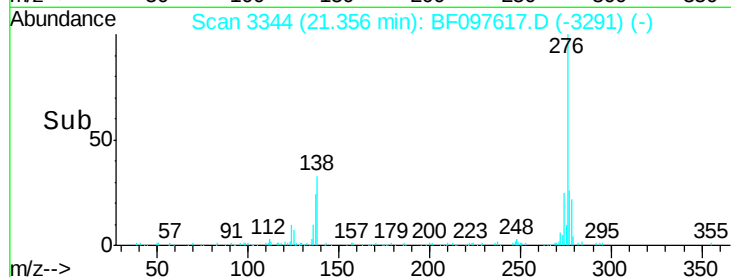
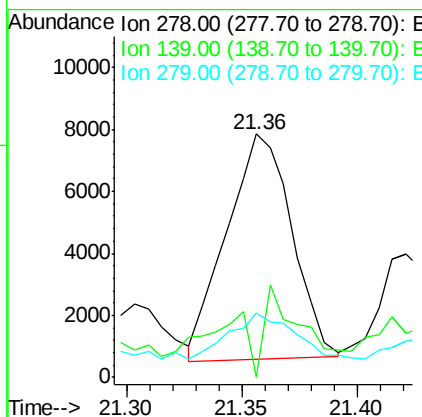
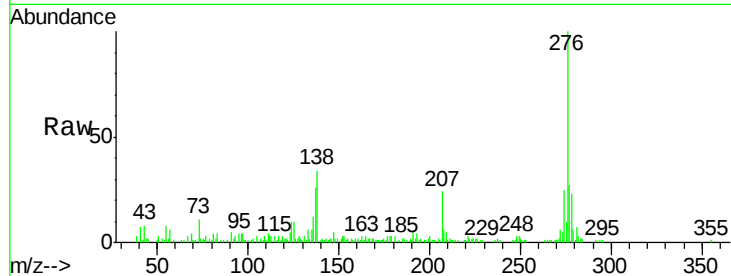




#90
Dibenzo(a,h)anthracene
Concen: 2.16 ng
RT: 21.36 min Scan# 3344
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Instrument :
BNA_F
ClientSampleId :
OK-02-081017

Tot Ion:278 Resp: 14335
Ion Ratio Lower Upper
278 100
139 0.0 16.6 24.8#
279 26.5 19.3 28.9



#91
Benzo(g,h,i)perylene
Concen: 7.13 ng
RT: 21.71 min Scan# 3404
Delta R.T. 0.02 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Tgt Ion:276 Resp: 51906
Ion Ratio Lower Upper
276 100
277 25.8 18.6 28.0
138 36.0 25.4 38.0

