

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080917\
 Data File : BF097551.D
 Acq On : 10 Aug 2017 9:48
 Operator : SJ/JU
 Sample : I4677-10 10X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 10 13:26:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 07 16:02:51 2017
 Response via : Initial Calibration

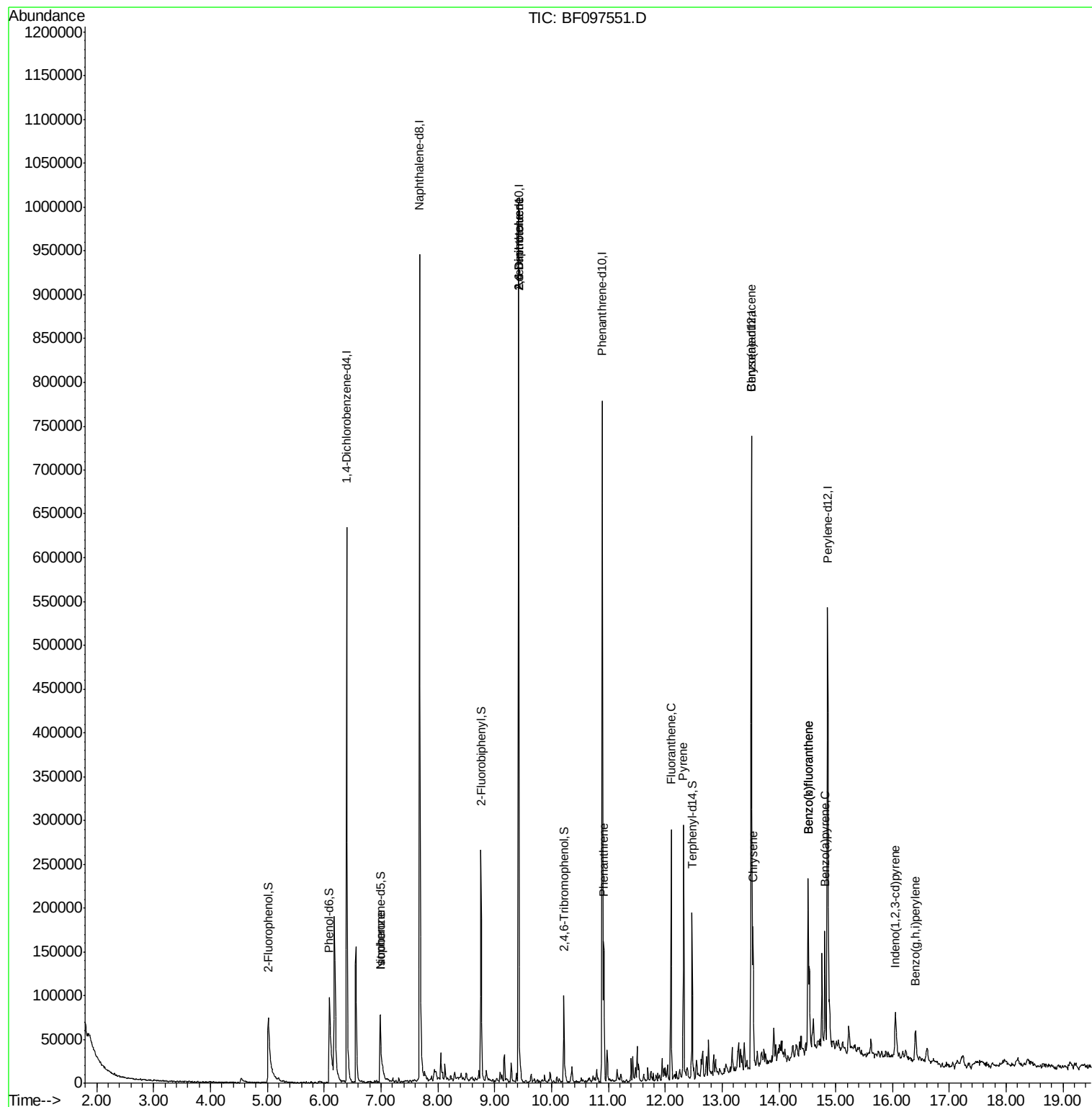
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.39	152	109924	20.00	ng	-0.02
21) Naphthalene-d8	7.68	136	464394	20.00	ng	-0.02
38) Acenaphthene-d10	9.42	164	186433	20.00	ng	-0.02
63) Phenanthrene-d10	10.89	188	274795	20.00	ng	-0.02
75) Chrysene-d12	13.52	240	215536	20.00	ng	-0.02
86) Perylene-d12	14.86	264	189722	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.02	112	67450	9.25	ng	0.01
7) Phenol-d6	6.09	99	97061	11.66	ng	0.00
23) Nitrobenzene-d5	6.99	82	53293	6.73	ng	0.00
41) 2,4,6-Tribromophenol	10.22	330	12024	8.16	ng	-0.02
44) 2-Fluorobiphenyl	8.76	172	82321	7.49	ng	-0.02
78) Terphenyl-d14	12.47	244	49584	4.69	ng	-0.02
Target Compounds						
25) Isophorone	6.99	82	53293	3.438	ng	# 67
50) 2,6-Dinitrotoluene	9.42	165	23441	7.807	ng	# 33
56) 2,4-Dinitrotoluene	9.42	165	23441	6.791	ng	# 33
70) Phenanthrene	10.92	178	67551	4.588	ng	96
74) Fluoranthene	12.10	202	118075	8.186	ng	98
77) Pyrene	12.32	202	111637	6.327	ng	97
80) Benzo(a)anthracene	13.51	228	62736	4.498	ng	98
82) Chrysene	13.54	228	54658	4.014	ng	96
85) Indeno(1,2,3-cd)pyrene	16.05	276	28041	2.401	ng	99
87) Benzo(b)fluoranthene	14.52	252	108115	9.480	ng	# 97
88) Benzo(k)fluoranthene	14.52	252	108115	9.948	ng	98
89) Benzo(a)pyrene	14.81	252	51969	4.979	ng	97
91) Benzo(a,h,i)perylene	16.40	276	23707	2.641	ng	95

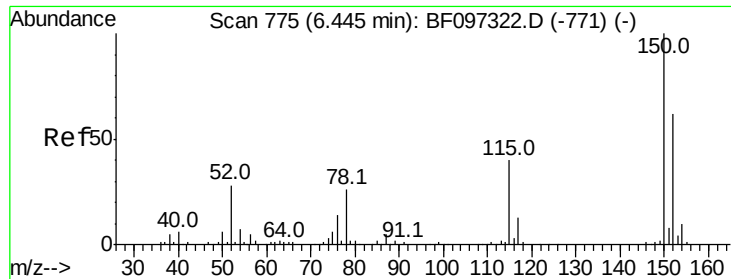
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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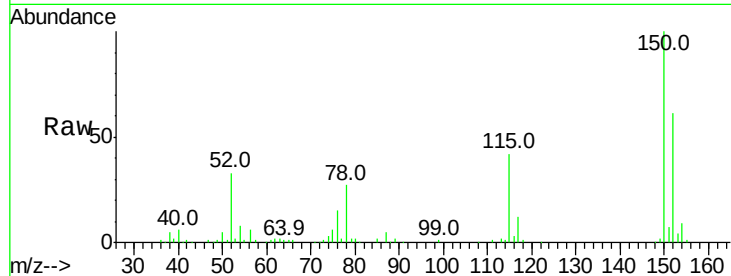


#1

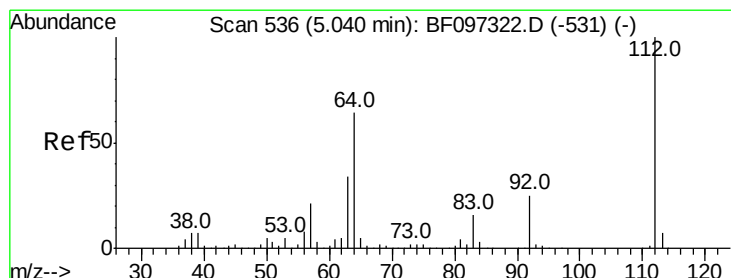
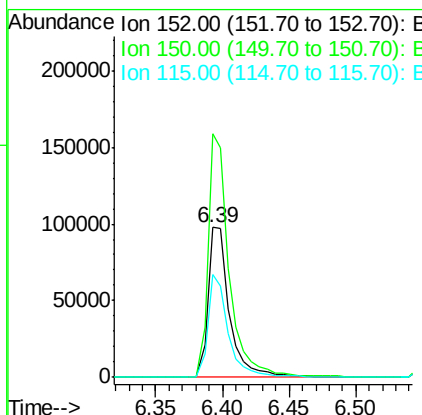
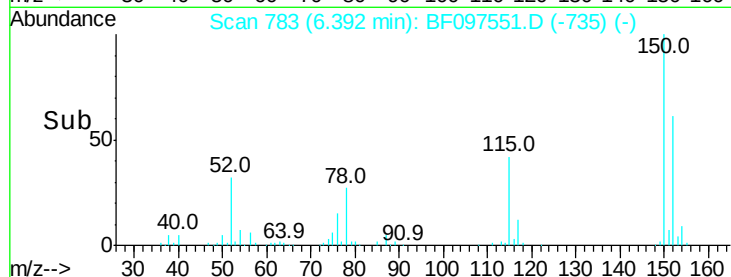
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.39 min Scan# 783
Delta R.T. -0.02 min
Lab File: BF097551.D
Acq: 10 Aug 2017 9:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 109924
Ion Ratio Lower Upper
152 100
150 162.8 126.2 189.2
115 68.7 52.2 78.2



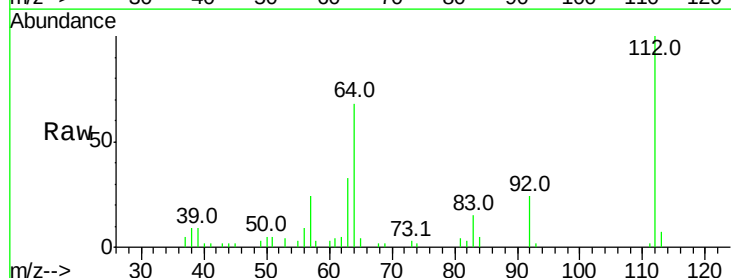
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



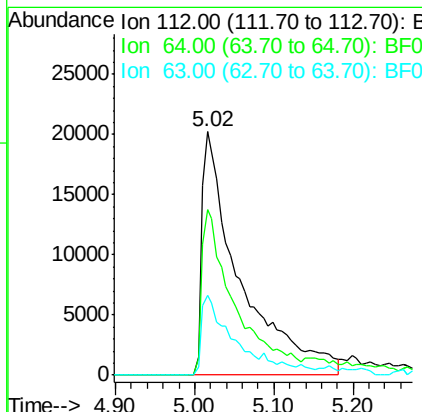
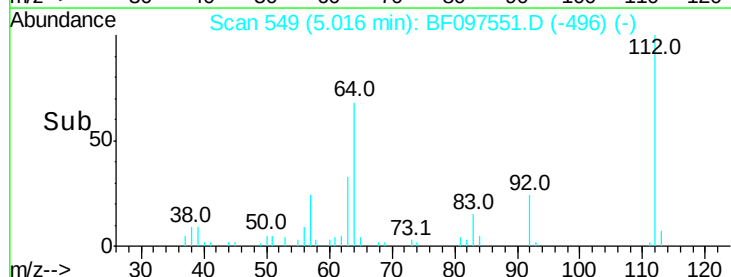
#5

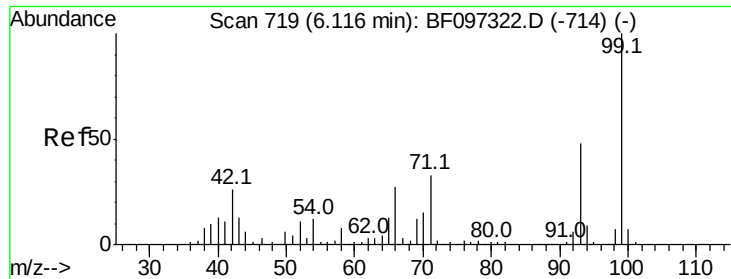
2-Fluorophenol
Concen: 9.250 ng
RT: 5.02 min Scan# 549
Delta R.T. 0.01 min
Lab File: BF097551.D
Acq: 10 Aug 2017 9:48

Tgt Ion:112 Resp: 67450
Ion Ratio Lower Upper
112 100
64 67.8 46.0 69.0
63 32.6 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: 11.660 ng

RT: 6.09 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

Instrument :

BNA_F

ClientSampleId :

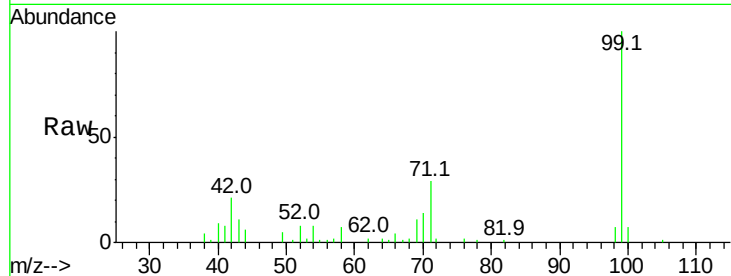
Tot Ion: 99 Resp: 97061

Ion Ratio Lower Upper

99 100

42 21.3 13.5 20.3#

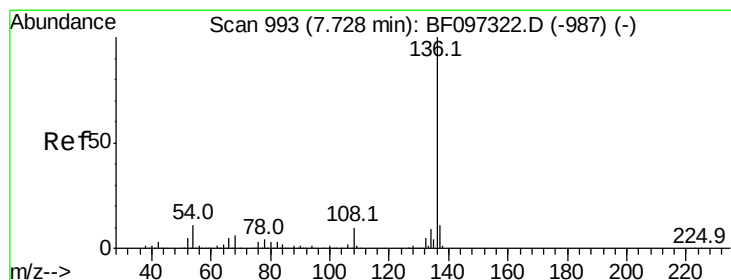
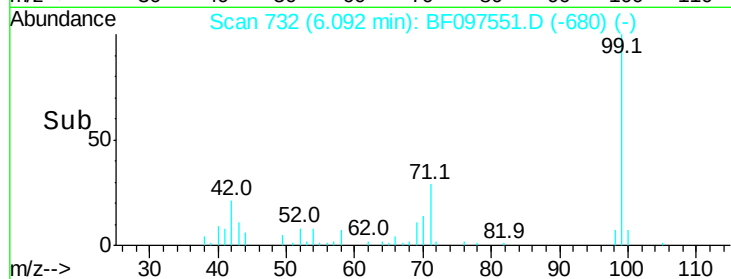
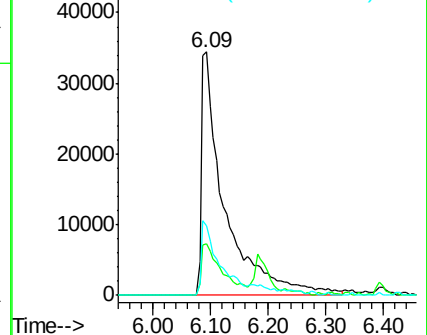
71 28.8 24.5 36.7



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: 20.000 ng

RT: 7.68 min Scan# 1002

Delta R.T. -0.02 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

Tgt Ion: 136 Resp: 464394

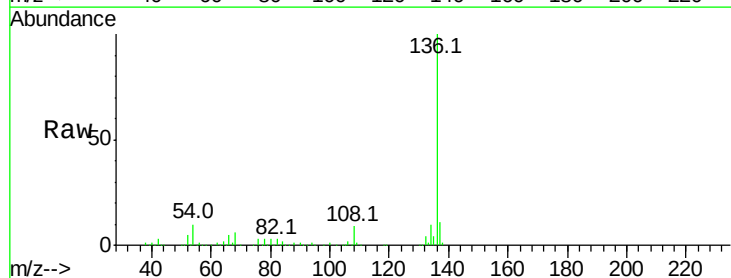
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 10.3 4.9 7.3#

68 5.8 4.1 6.1

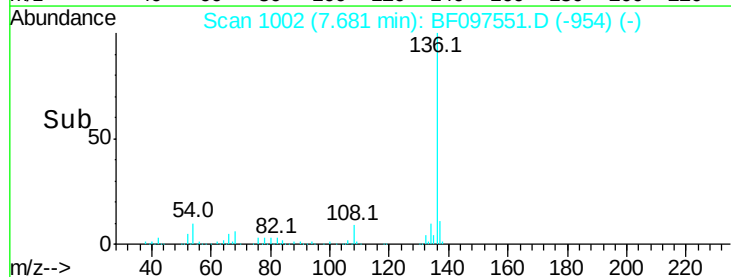
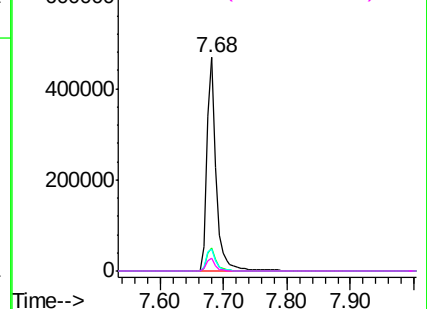


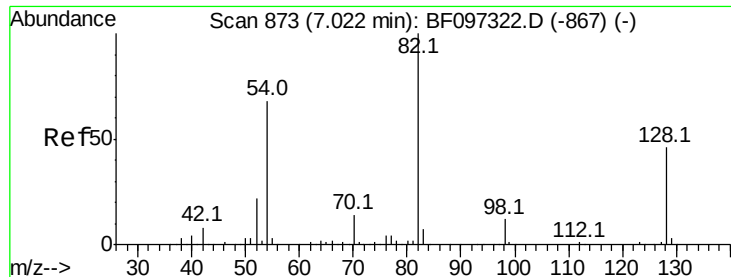
Abundance Ion 136.00 (135.70 to 136.70): E

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: 6.732 ng

RT: 6.99 min Scan# 884

Delta R.T. -0.01 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

Instrument :

BNA_F

ClientSampleId :

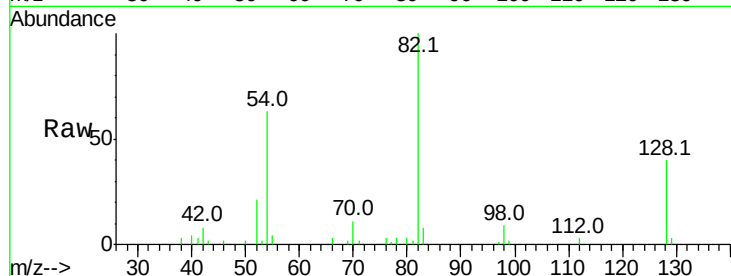
Tot Ion: 82 Resp: 53293

Ion Ratio Lower Upper

82 100

128 40.1 34.0 51.0

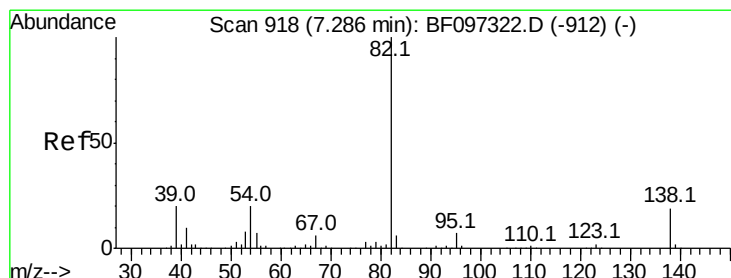
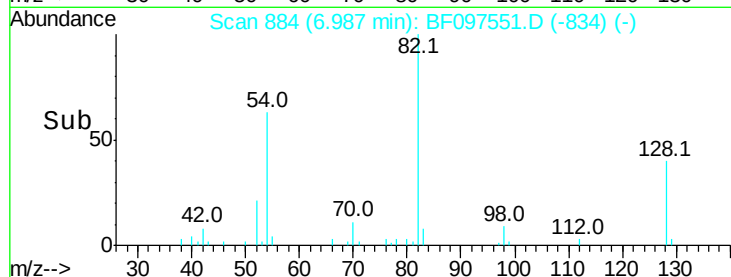
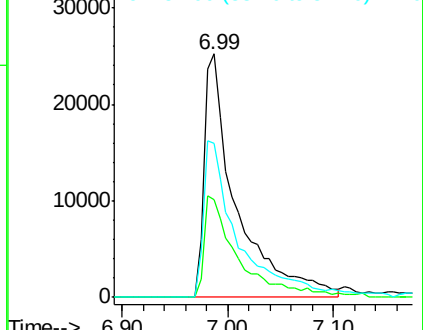
54 63.5 42.2 63.2#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 3.438 ng

RT: 6.99 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

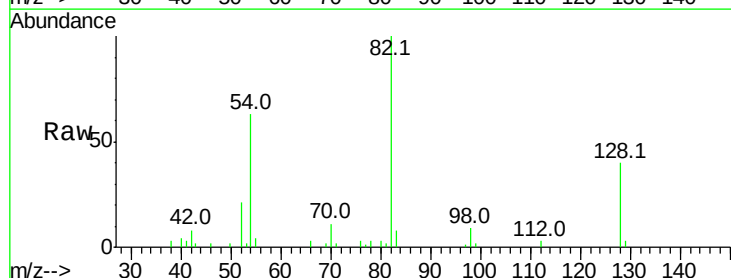
Tgt Ion: 82 Resp: 53293

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

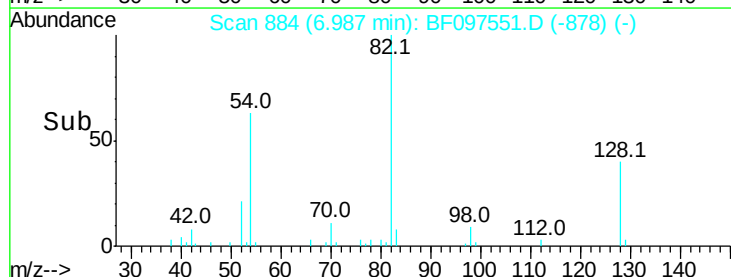
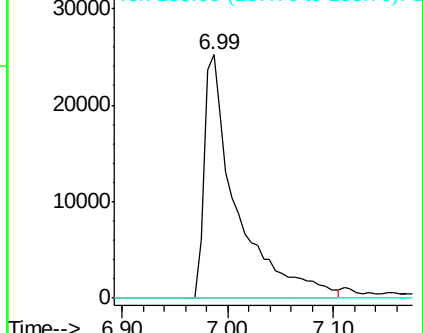
138 0.0 13.1 19.7#

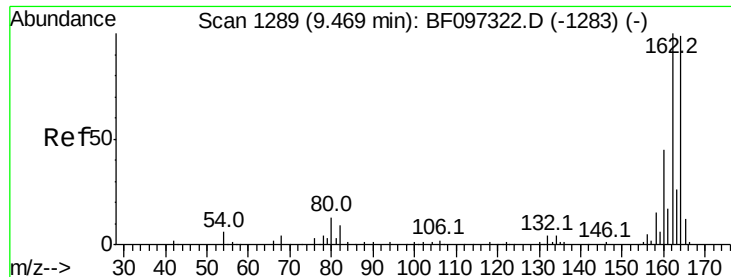


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

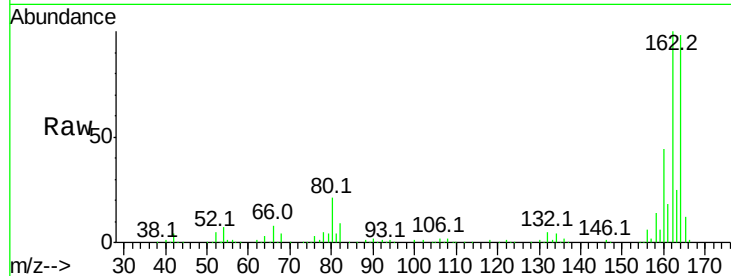




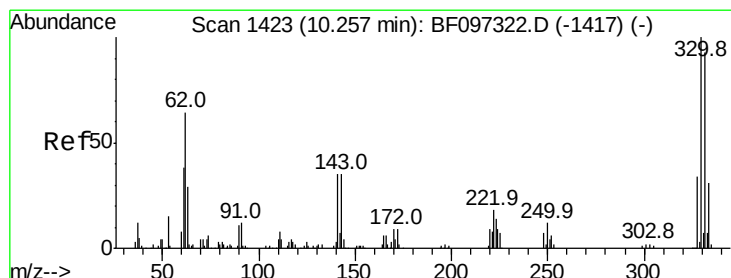
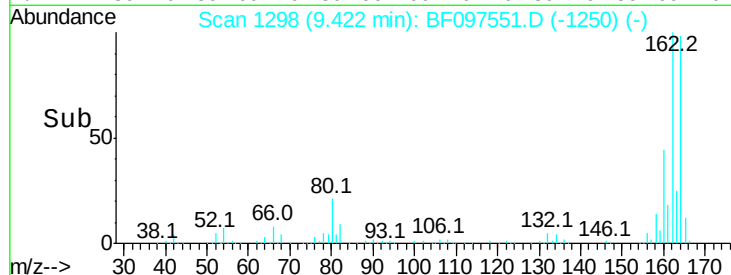
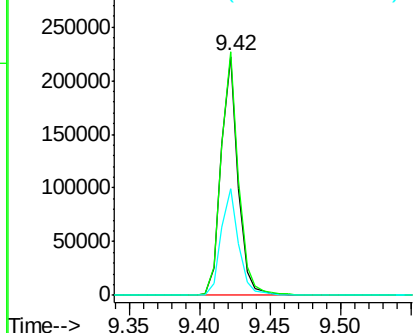
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.42 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF097551.D
 Acq: 10 Aug 2017 9:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 186433
 Ion Ratio Lower Upper
 164 100
 162 101.9 82.6 123.8
 160 44.4 36.2 54.2

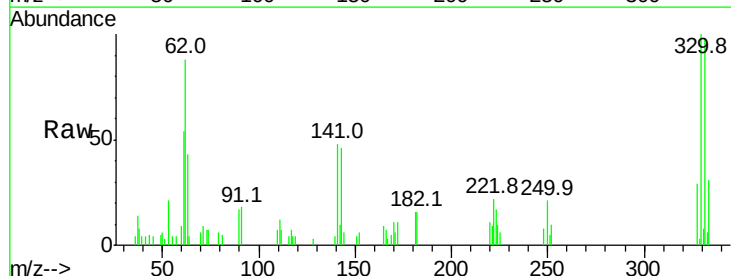


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

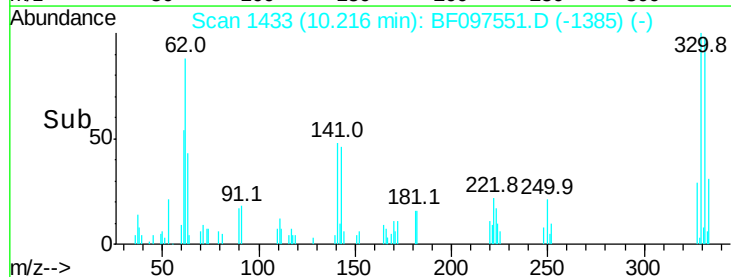
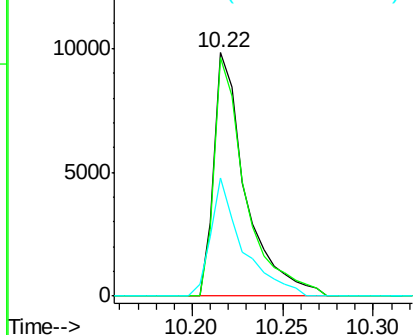


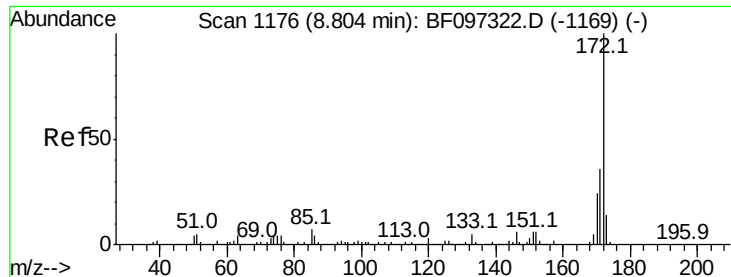
#41
 2,4,6-Tribromophenol
 Concen: 8.163 ng
 RT: 10.22 min Scan# 1433
 Delta R.T. -0.02 min
 Lab File: BF097551.D
 Acq: 10 Aug 2017 9:48

Tgt Ion:330 Resp: 12024
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.6 115.0
 141 48.4 31.4 47.2#



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

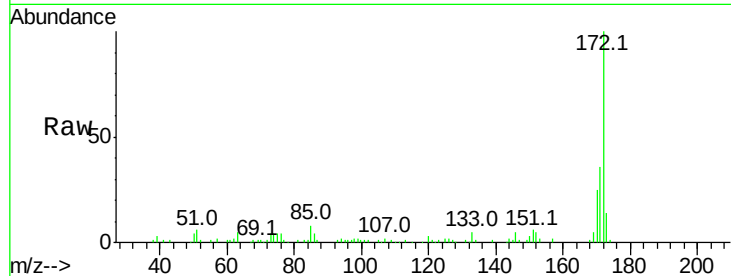




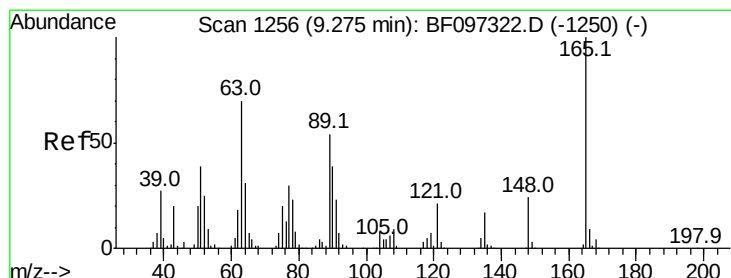
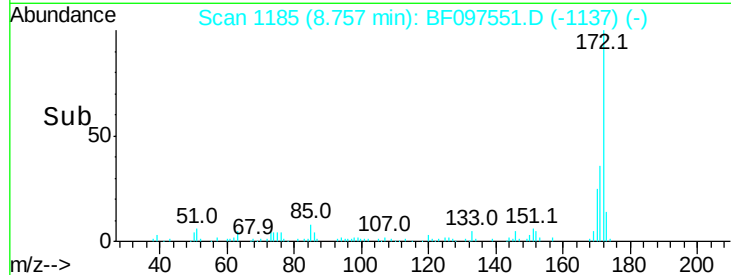
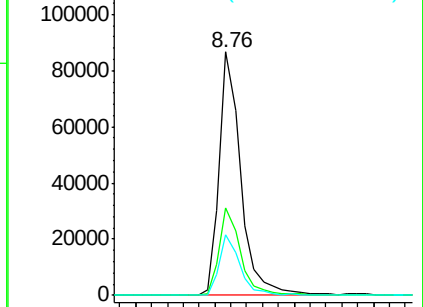
#44
 2-Fluorobiphenyl
 Concen: 7.494 ng
 RT: 8.76 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BF097551.D
 Acq: 10 Aug 2017 9:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	172	Resp:	82321
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.6	44.4
170	24.7	19.8	29.8

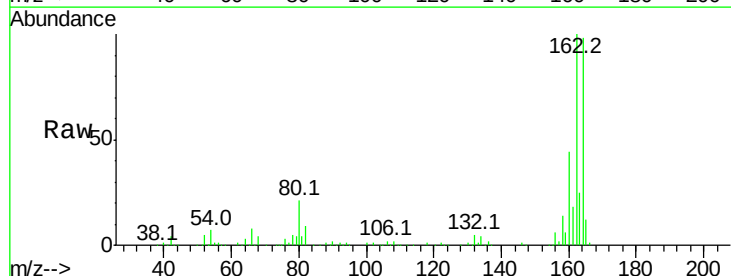


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

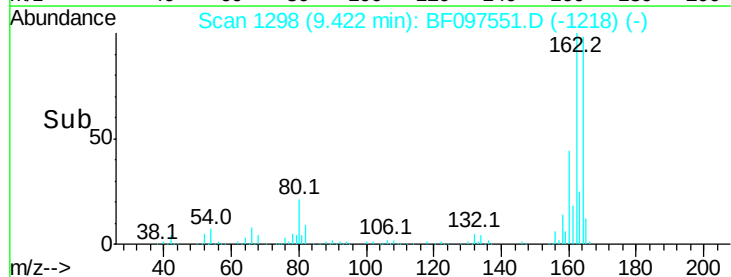
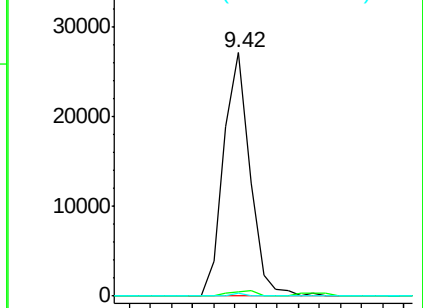


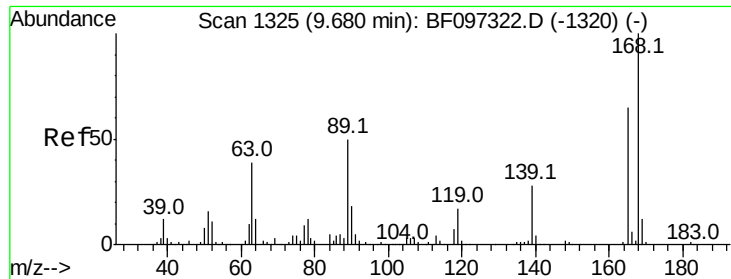
#50
 2,6-Dinitrotoluene
 Concen: 7.807 ng
 RT: 9.42 min Scan# 1298
 Delta R.T. 0.17 min
 Lab File: BF097551.D
 Acq: 10 Aug 2017 9:48

Tgt Ion:	165	Resp:	23441
Ion	Ratio	Lower	Upper
165	100		
63	1.6	34.3	51.5#
89	1.1	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

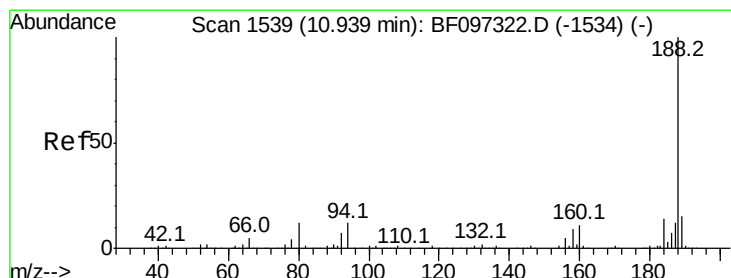
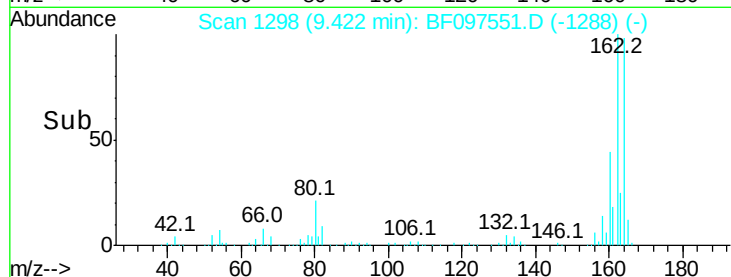
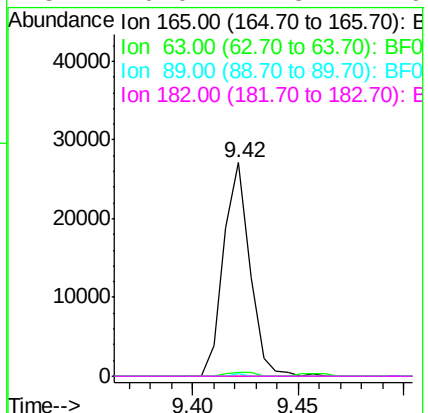
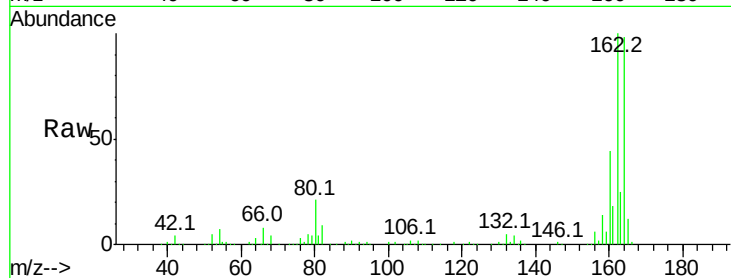




#56
 2,4-Dinitrotoluene
 Concen: 6.791 ng
 RT: 9.42 min Scan# 1298
 Delta R.T. -0.24 min
 Lab File: BF097551.D
 Acq: 10 Aug 2017 9:48

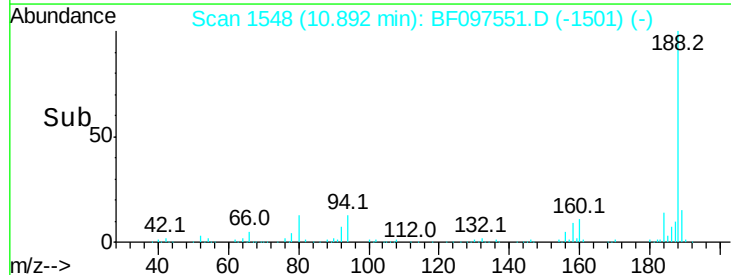
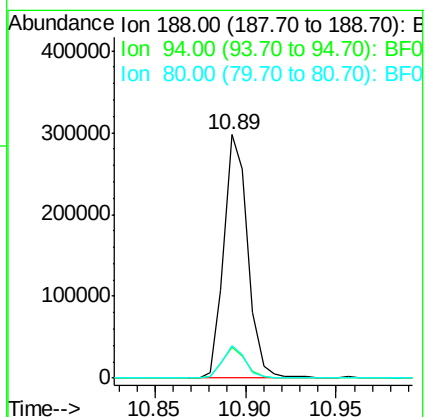
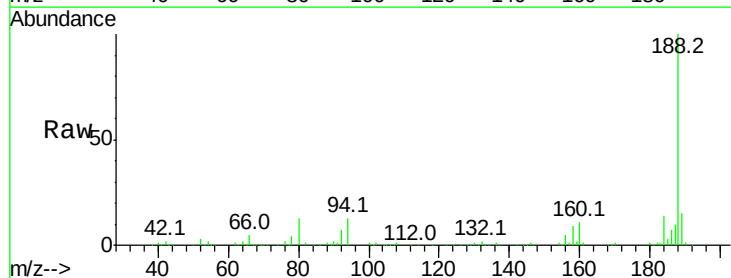
Instrument :
 BNA_F
 ClientSampleId :

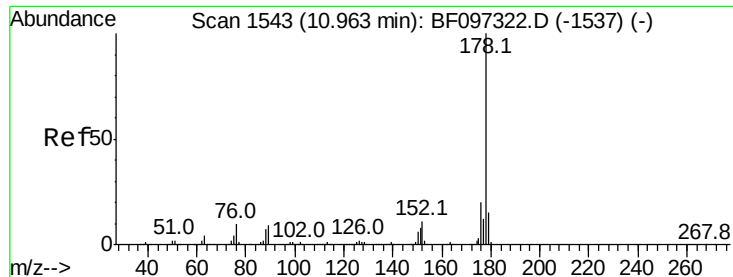
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	25.4	38.0#
89	1.1	46.4	69.6#
182	0.0	1.8	2.6#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.89 min Scan# 1548
 Delta R.T. -0.02 min
 Lab File: BF097551.D
 Acq: 10 Aug 2017 9:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.6	9.4	14.2
80	13.3	10.2	15.2





#70

Phenanthrene

Concen: 4.588 ng

RT: 10.92 min Scan# 1553

Delta R.T. -0.02 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

Instrument :

BNA_F

ClientSampleId :

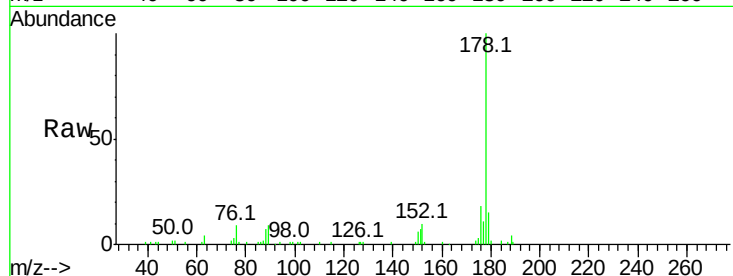
Tot Ion:178 Resp: 67551

Ion Ratio Lower Upper

178 100

176 17.9 16.2 24.4

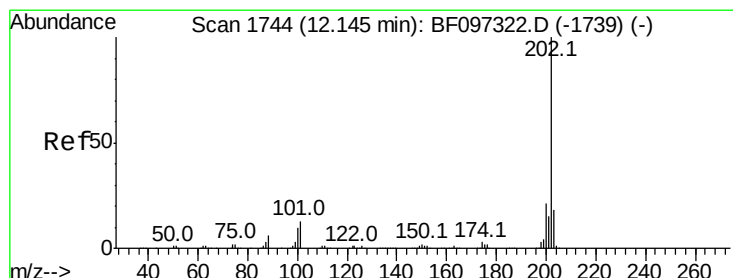
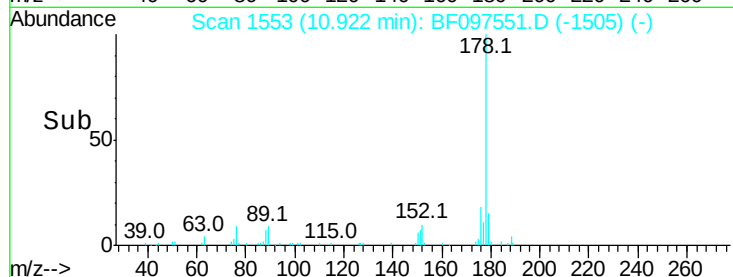
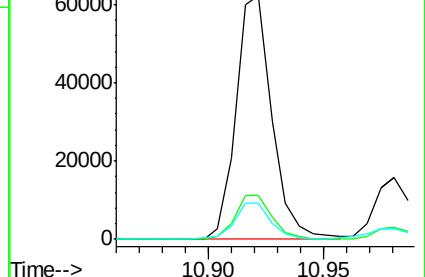
179 14.9 12.6 19.0



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



#74

Fluoranthene

Concen: 8.186 ng

RT: 12.10 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

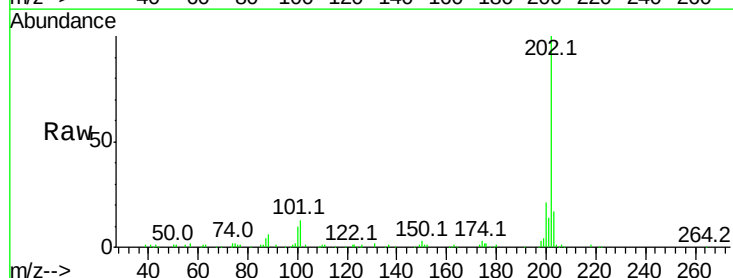
Tgt Ion:202 Resp: 118075

Ion Ratio Lower Upper

202 100

101 13.0 0.0 33.2

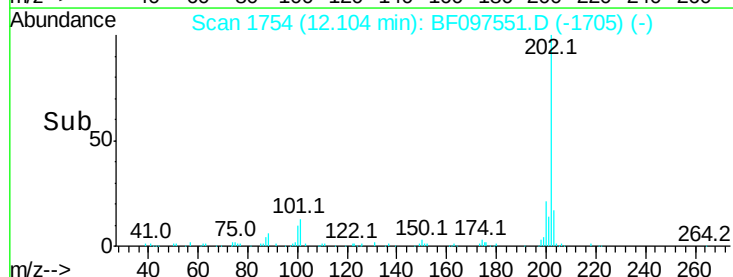
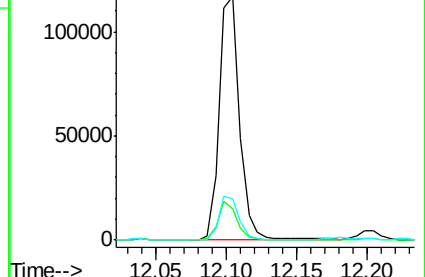
203 16.8 0.0 38.1

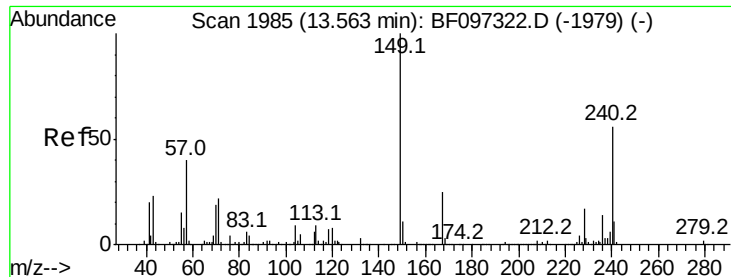


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.52 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

Instrument :

BNA_F

ClientSampled :

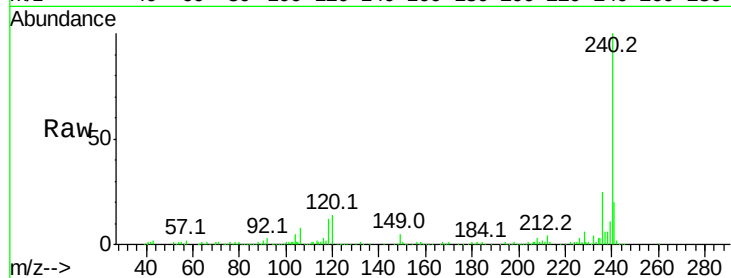
Tot Ion:240 Resp: 21536

Ion Ratio Lower Upper

240 100

120 13.8 5.8 8.8#

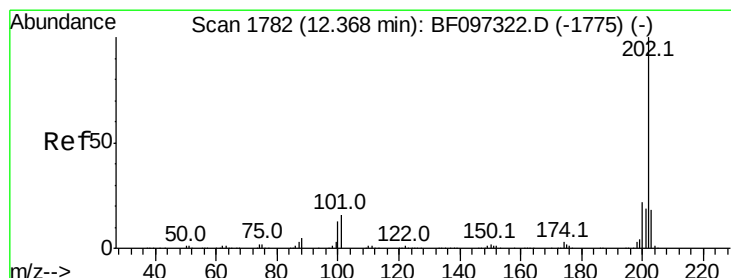
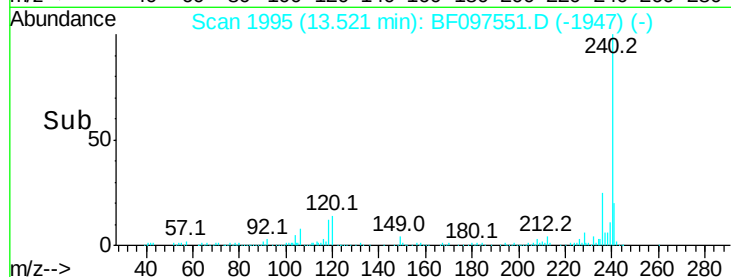
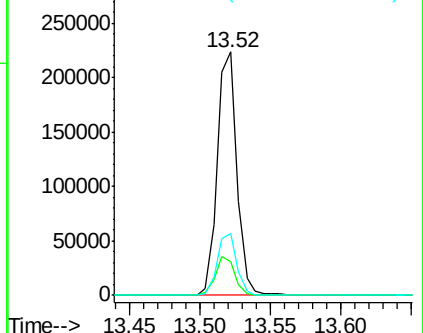
236 25.4 20.5 30.7



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: 6.327 ng

RT: 12.32 min Scan# 1791

Delta R.T. -0.02 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

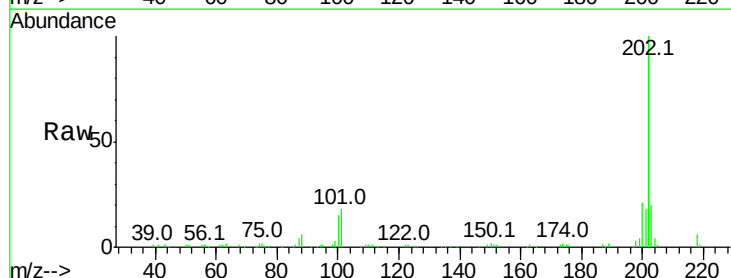
Tgt Ion:202 Resp: 111637

Ion Ratio Lower Upper

202 100

200 20.9 17.6 26.4

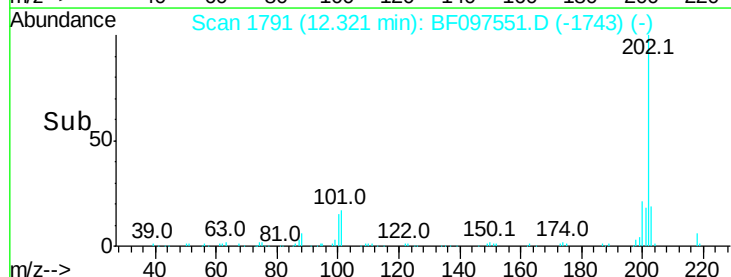
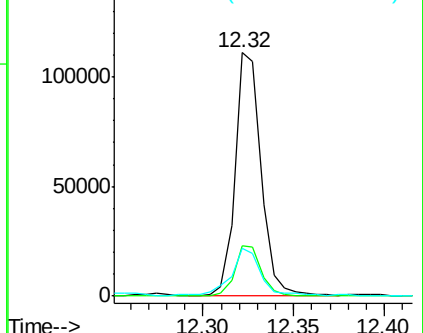
203 19.8 14.4 21.6

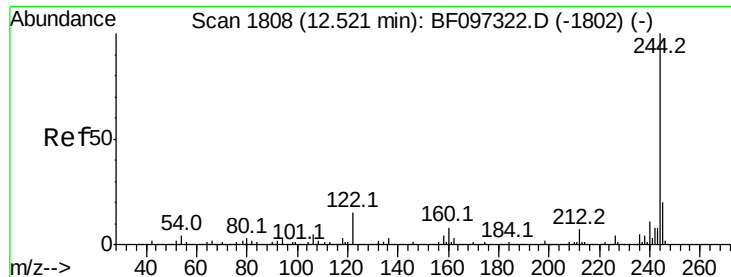


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.690 ng

RT: 12.47 min Scan# 1817

Delta R.T. -0.02 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

Instrument :

BNA_F

ClientSampleId :

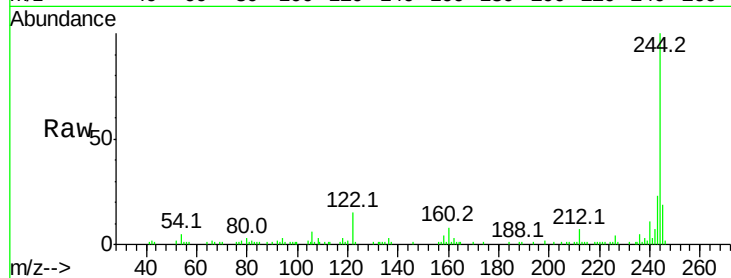
Tot Ion:244 Resp: 49584

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

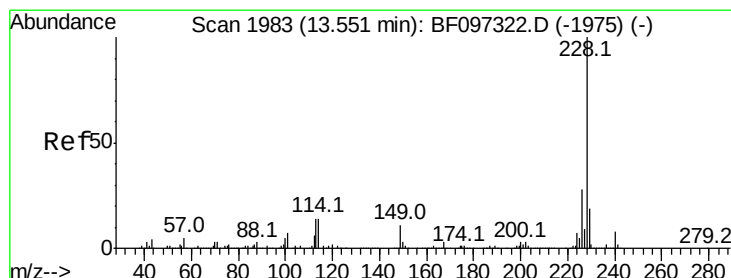
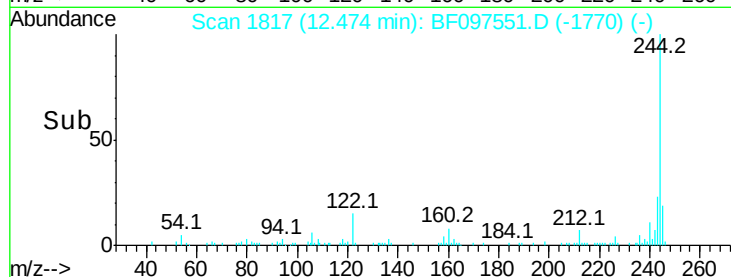
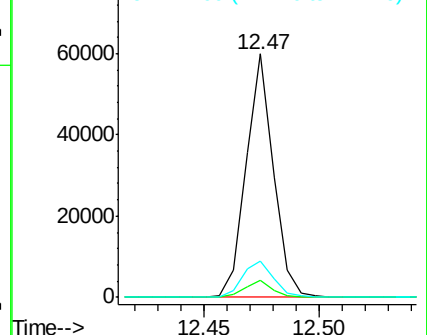
122 14.7 10.3 15.5



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



#80

Benzo(a)anthracene

Concen: 4.498 ng

RT: 13.51 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

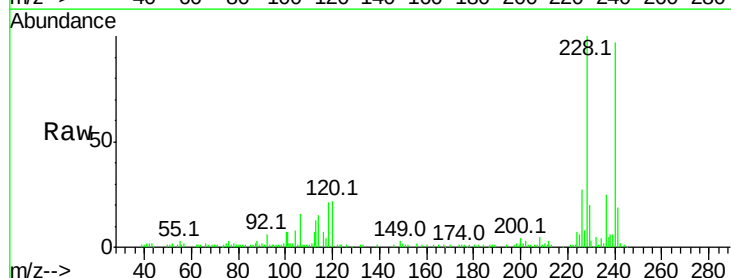
Tgt Ion:228 Resp: 62736

Ion Ratio Lower Upper

228 100

226 27.0 22.6 33.8

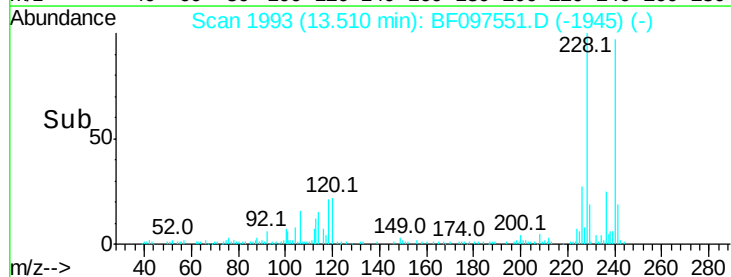
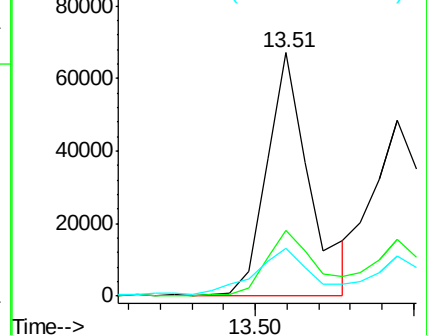
229 19.7 16.3 24.5

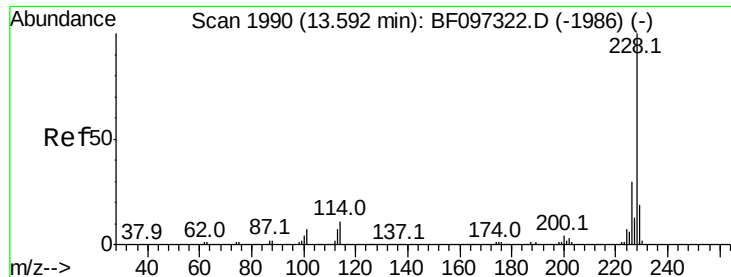


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.014 ng

RT: 13.54 min Scan# 1999

Delta R.T. -0.02 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

Instrument :

BNA_F

ClientSampleId :

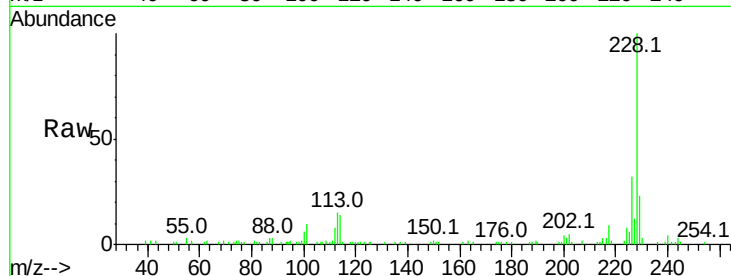
Tot Ion:228 Resp: 54658

Ion Ratio Lower Upper

228 100

226 32.3 24.9 37.3

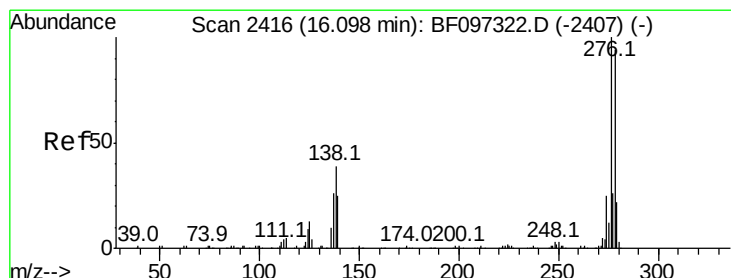
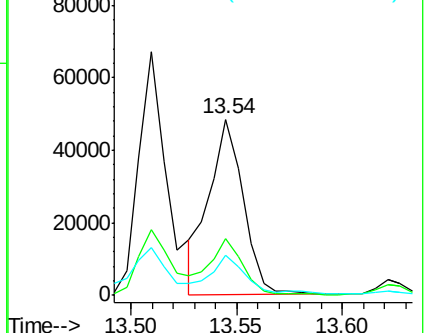
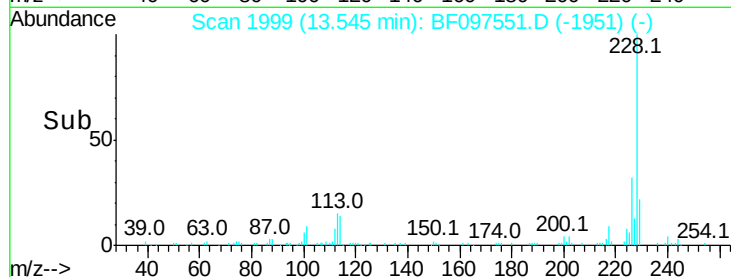
229 22.8 15.8 23.6



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: 2.401 ng

RT: 16.05 min Scan# 2425

Delta R.T. -0.01 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

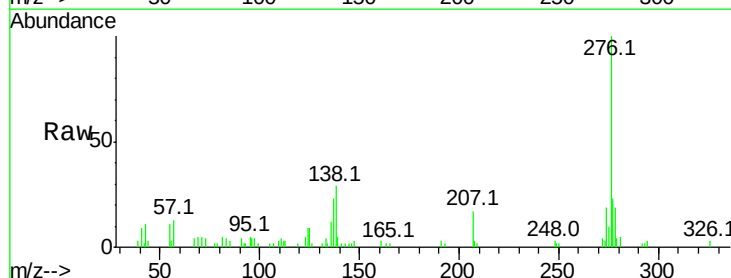
Tgt Ion:276 Resp: 28041

Ion Ratio Lower Upper

276 100

138 33.9 27.8 41.6

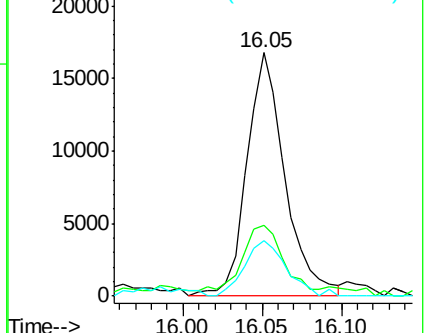
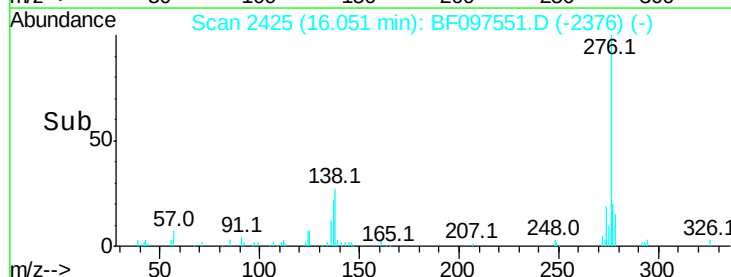
277 24.8 20.2 30.4

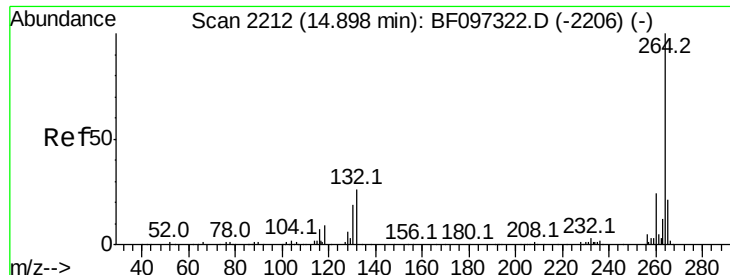


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

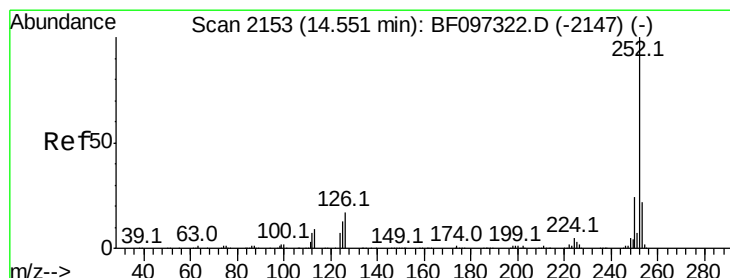
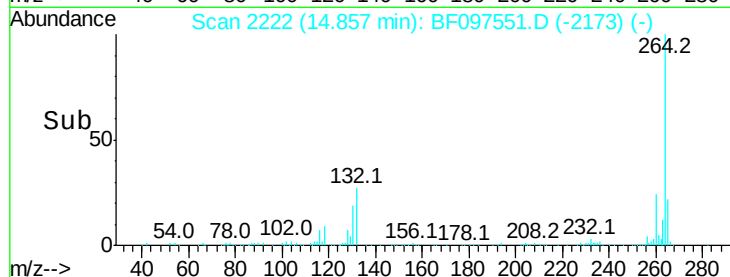
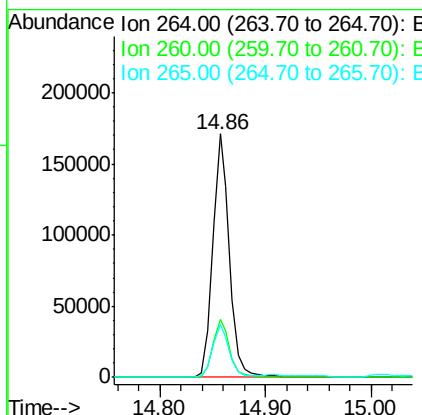
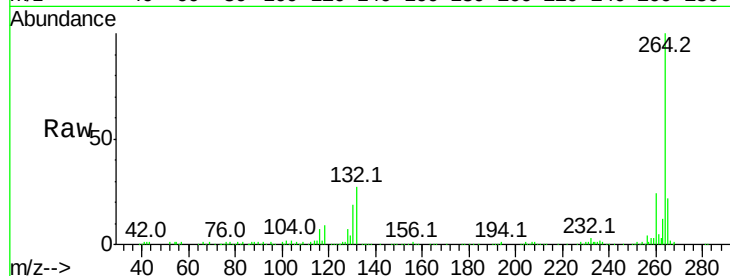




#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.86 min Scan# 2222
Delta R.T. -0.01 min
Lab File: BF097551.D
Acq: 10 Aug 2017 9:48

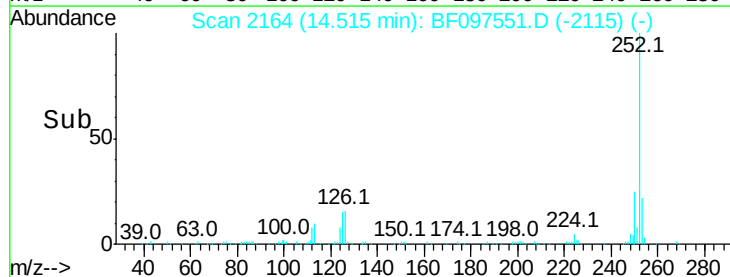
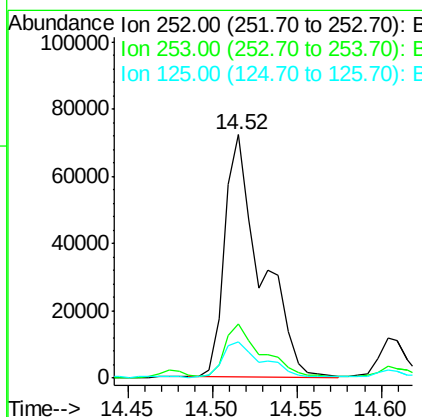
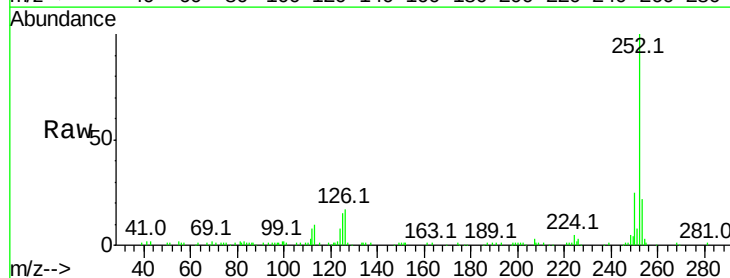
Instrument :
BNA_F
ClientSampleId :

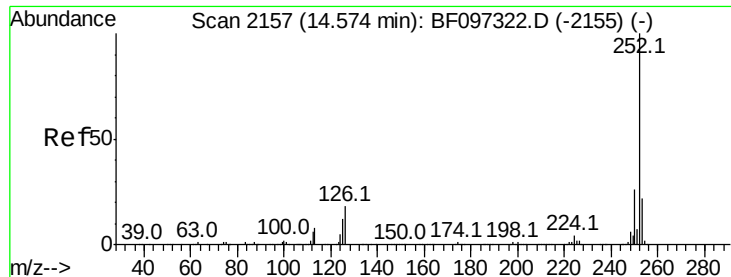
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	21.7	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 9.480 ng
RT: 14.52 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF097551.D
Acq: 10 Aug 2017 9:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.1	27.1
125	15.1	9.8	14.8#

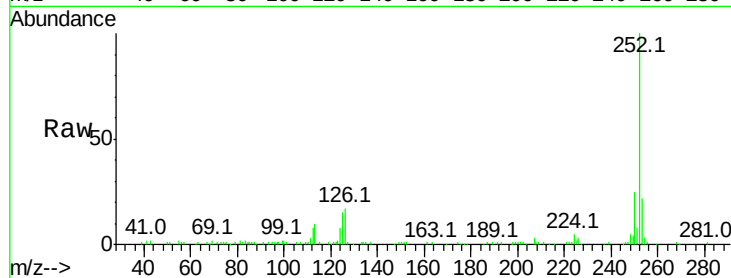




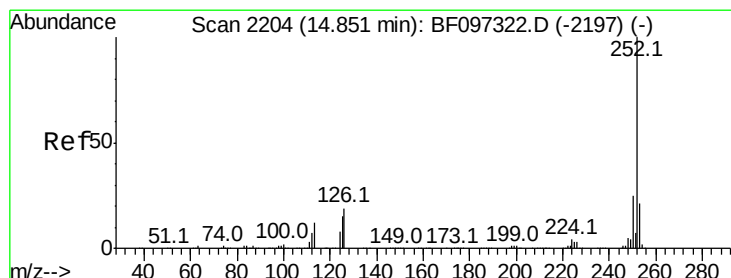
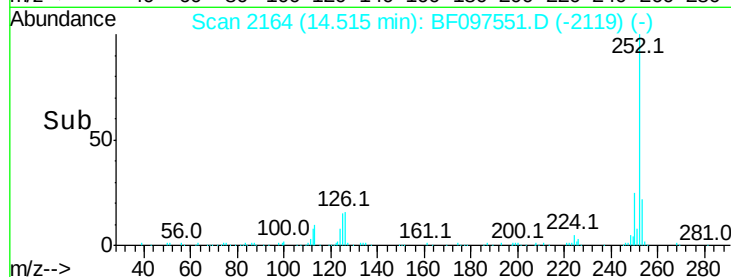
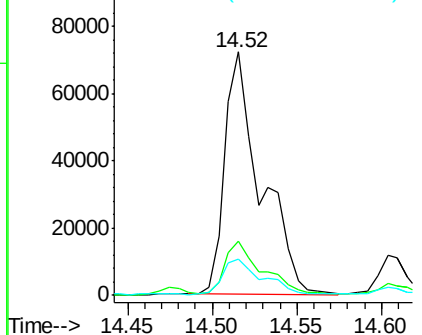
#88
Benzo(k)fluoranthene
Concen: 9.948 ng
RT: 14.52 min Scan# 2164
Delta R.T. -0.04 min
Lab File: BF097551.D
Acq: 10 Aug 2017 9:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.4	27.6
125	15.1	13.1	19.7

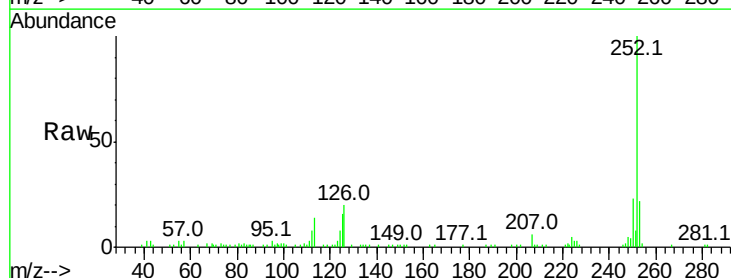


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

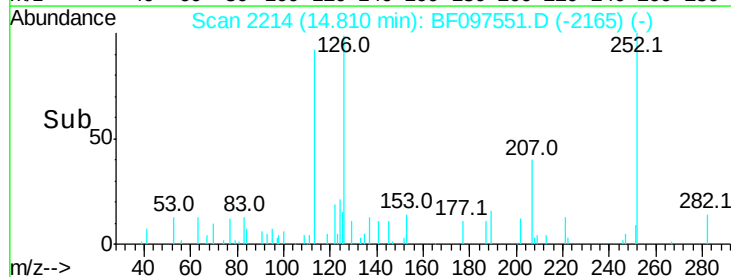
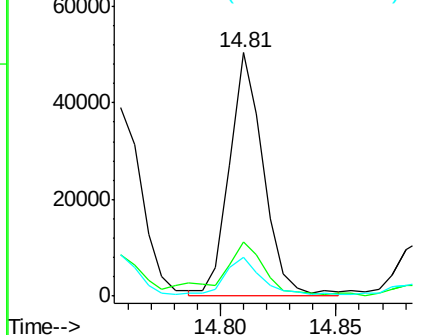


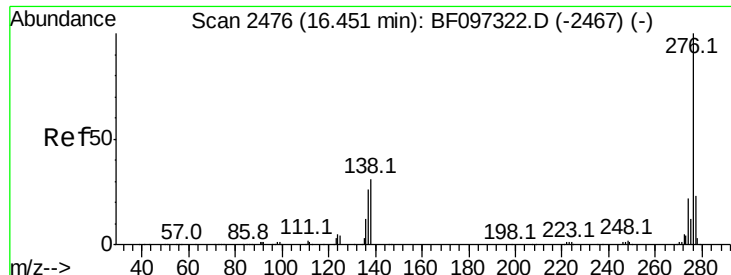
#89
Benzo(a)pyrene
Concen: 4.979 ng
RT: 14.81 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF097551.D
Acq: 10 Aug 2017 9:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	16.1	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





#91

Benzo(a,h,i)perylene

Concen: 2.641 ng

RT: 16.40 min Scan# 2485

Delta R.T. -0.01 min

Lab File: BF097551.D

Acq: 10 Aug 2017 9:48

Instrument :

BNA_F

ClientSampleId :

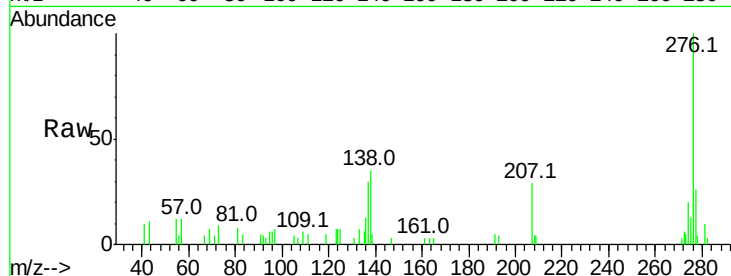
Tot Ion: 276 Resp: 23707

Ion Ratio Lower Upper

276 100

277 25.6 18.6 28.0

138 34.7 25.4 38.0



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

