

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
 Data File : BF097389.D
 Acq On : 5 Aug 2017 7:22
 Operator : SJ/JU
 Sample : I4588-02 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

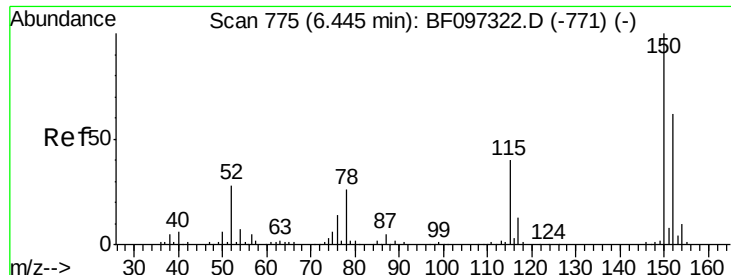
Quant Time: Aug 06 00:55:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.44	152	104557	20.00	ng	-0.06
21) Naphthalene-d8	7.72	136	383251	20.00	ng	-0.06
38) Acenaphthene-d10	9.46	164	153205	20.00	ng	-0.07
63) Phenanthrene-d10	10.93	188	208090	20.00	ng	-0.07
75) Chrysene-d12	13.56	240	169073	20.00	ng	-0.07
86) Perylene-d12	14.90	264	131655	20.00	ng	-0.08

System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	49949	7.20	ng	-0.04
7) Phenol-d6	6.13	99	66464	8.39	ng	-0.04
23) Nitrobenzene-d5	7.01	82	38278	5.86	ng	-0.06
41) 2,4,6-Tribromophenol	10.25	330	8899	7.35	ng	-0.07
44) 2-Fluorobiphenyl	8.80	172	69124	7.66	ng	-0.07
78) Terphenyl-d14	12.52	244	38619	4.66	ng	-0.07

Target Compounds				Qvalue		
6) Aniline	6.18	93	29650	2.98	ng	# 54
11) bis(2-Chloroethyl)ether	6.18	93	29650	3.99	ng	# 94
13) 1,4-Dichlorobenzene	6.46	146	24552	3.10	ng	# 91
14) 1,2-Dichlorobenzene	6.61	146	49603	7.17	ng	# 95
20) 3+4-Methylphenols	6.91	107	84989	11.37	ng	# 67
22) Acetophenone	6.86	105	45189	4.91	ng	# 98
25) Isophorone	7.01	82	38277	2.99	ng	# 67
27) 2,4-Dimethylphenol	7.42	122	37246	6.13	ng	# 97
32) Benzoic acid	7.55	122	149939	33.07	ng	# 15
36) 4-Chloro-3-methylphenol	8.32	107	19437	3.41	ng	# 18
37) 2-Methylnaphthalene	8.43	142	23897	2.09	ng	# 94
39) 1,2,4,5-Tetrachlorobenzene	8.59	216	15579	3.81	ng	# 76
48) Acenaphthylene	9.33	152	34917	2.36	ng	# 90
77) Pyrene	12.36	202	28963	2.09	ng	# 94
87) Benzo(b)fluoranthene	14.55	252	41077	5.19	ng	# 89
88) Benzo(k)fluoranthene	14.55	252	41077	5.45	ng	# 94
91) Benzo(a,h,i)perylene	16.46	276	12954	2.08	ng	# 90

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

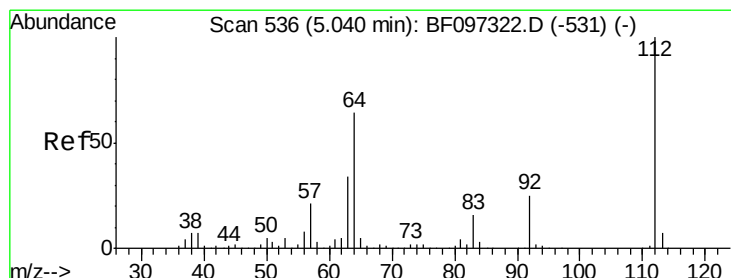
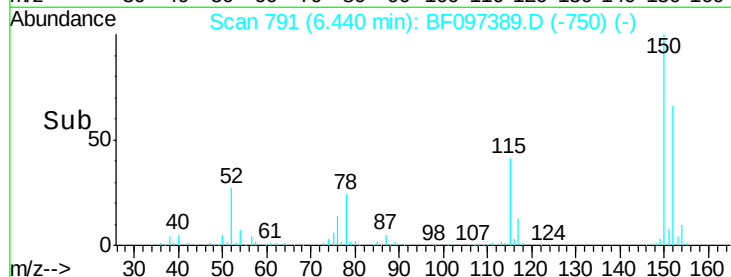
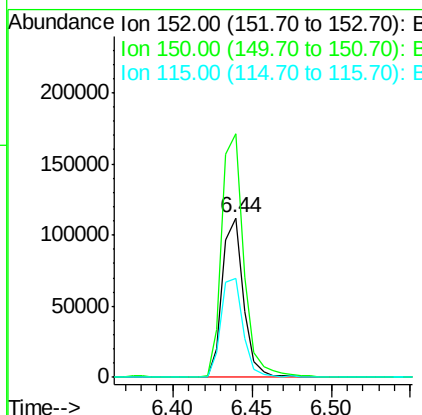
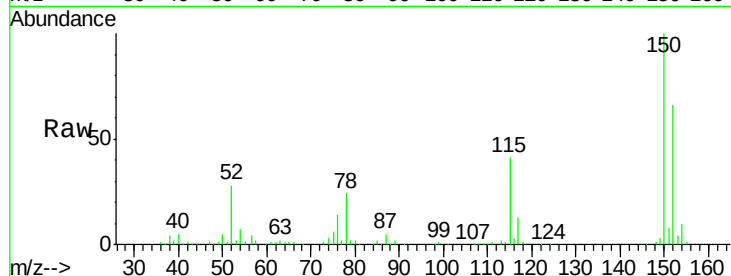


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.44 min Scan# 791
Delta R.T. -0.06 min
Lab File: BF097389.D
Acq: 5 Aug 2017 7:22

Instrument :
BNA_F
ClientSampleId :

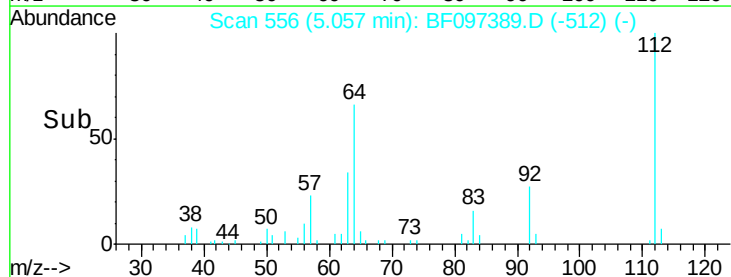
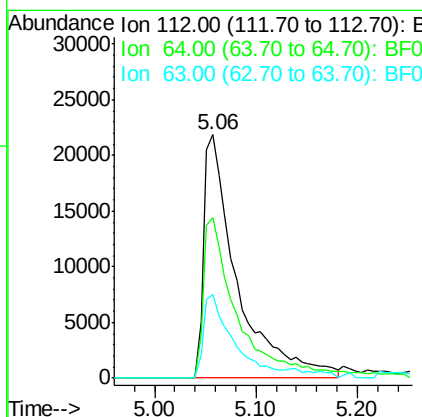
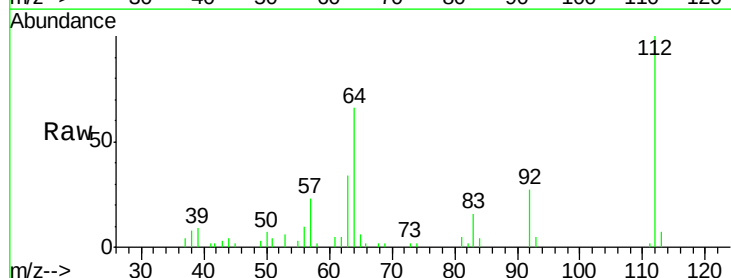
Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	126.2	189.2
115	62.3	52.2	78.2

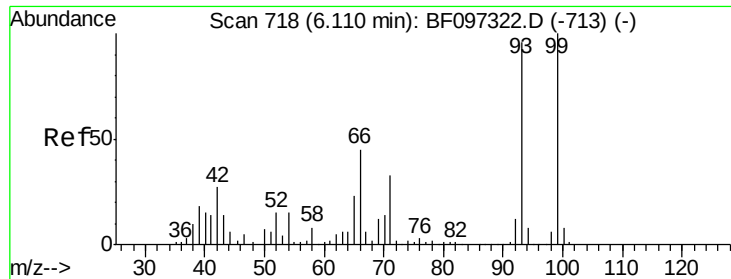


#5

2-Fluorophenol
Concen: 7.20 ng
RT: 5.06 min Scan# 556
Delta R.T. -0.04 min
Lab File: BF097389.D
Acq: 5 Aug 2017 7:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.8	46.0	69.0
63	34.2	23.4	35.0





#6

Aniline

Concen: 2.98 ng

RT: 6.18 min Scan# 747

Delta R.T. 0.02 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

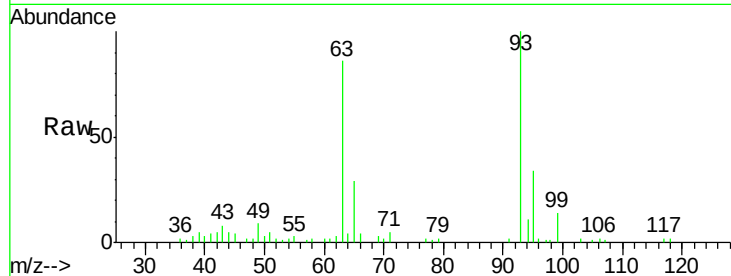
Tot Ion: 93 Resp: 29650

Ion Ratio Lower Upper

93 100

66 4.0 32.9 49.3#

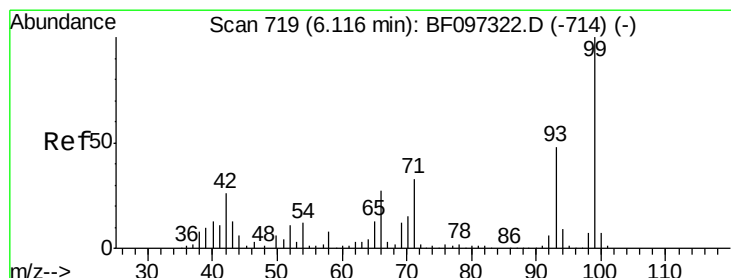
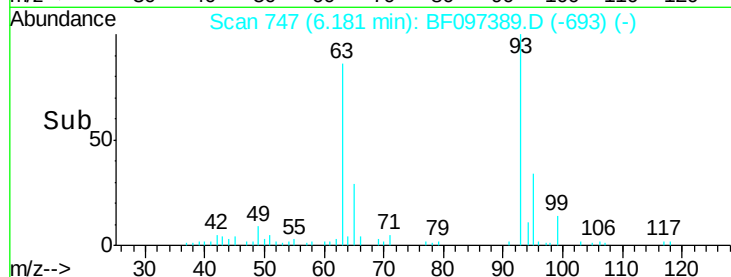
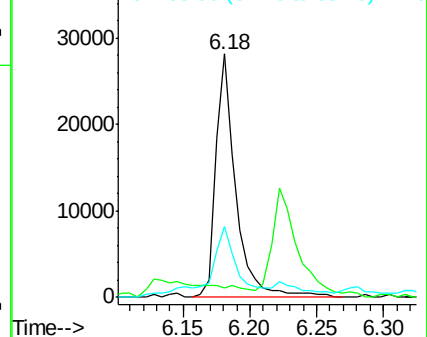
65 29.0 16.0 24.0#



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 8.39 ng

RT: 6.13 min Scan# 738

Delta R.T. -0.04 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

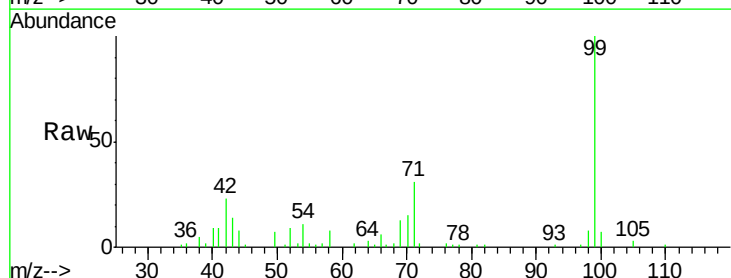
Tgt Ion: 99 Resp: 66464

Ion Ratio Lower Upper

99 100

42 22.7 13.5 20.3#

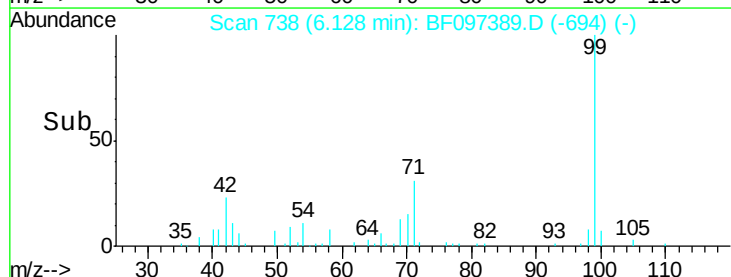
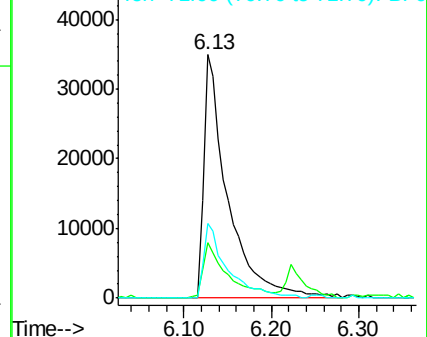
71 30.7 24.5 36.7

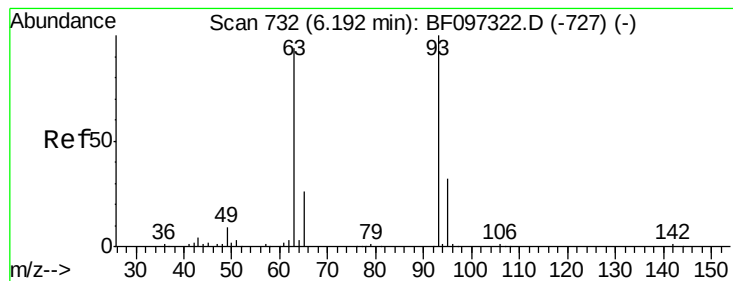


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 3.99 ng

RT: 6.18 min Scan# 747

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

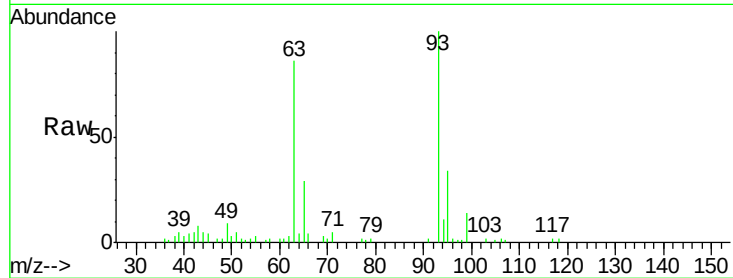
Tot Ion: 93 Resp: 29650

Ion Ratio Lower Upper

93 100

63 86.4 59.2 99.2

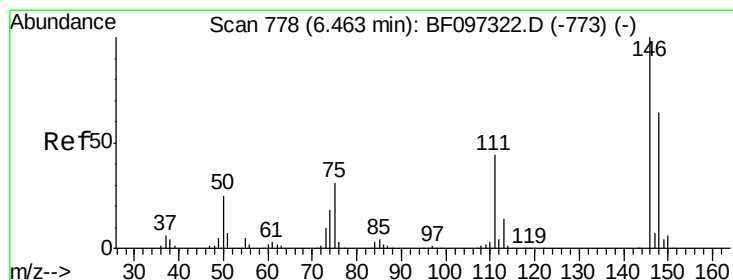
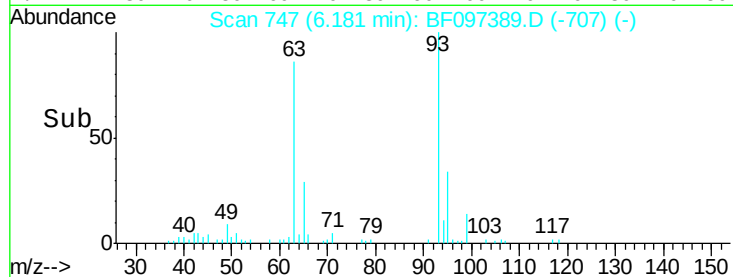
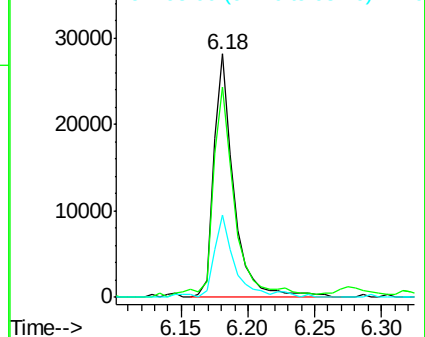
95 34.0 12.8 52.8



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0



#13

1,4-Dichlorobenzene

Concen: 3.10 ng

RT: 6.46 min Scan# 794

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

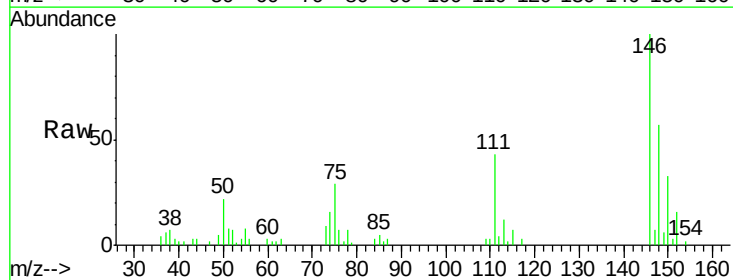
Tgt Ion: 146 Resp: 24552

Ion Ratio Lower Upper

146 100

148 57.4 52.2 78.2

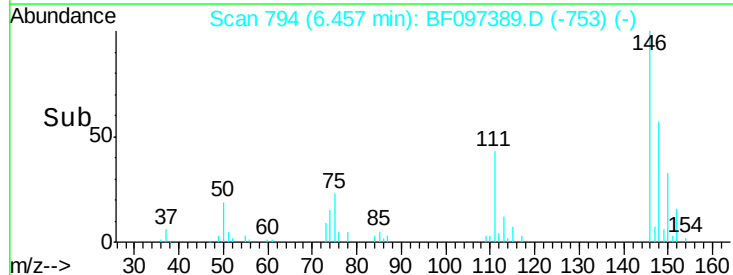
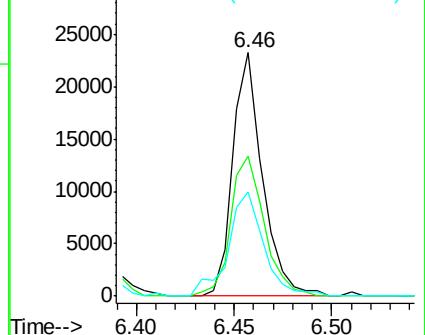
111 42.8 30.3 45.5

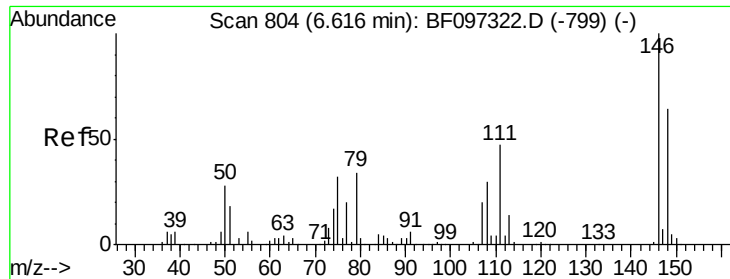


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

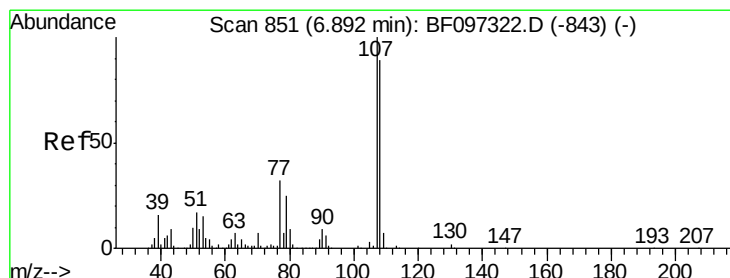
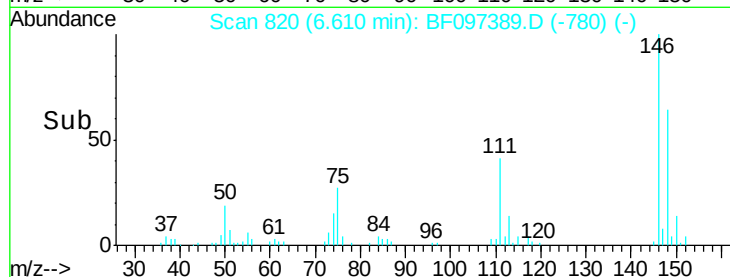
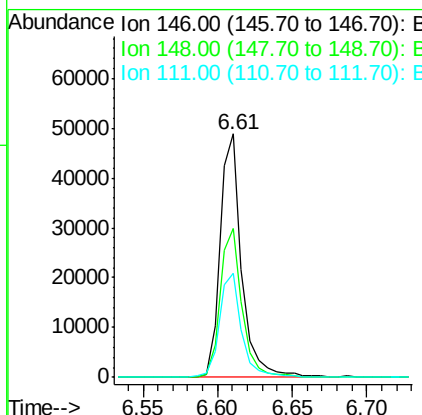
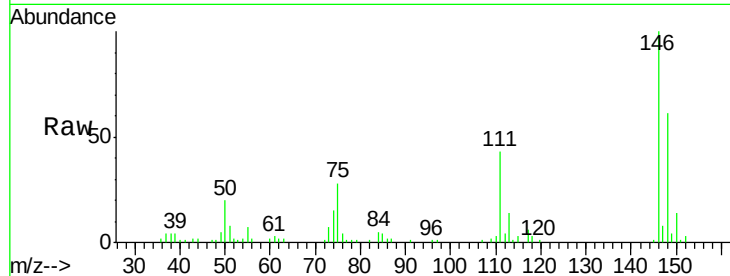




#14
 1,2-Dichlorobenzene
 Concen: 7.17 ng
 RT: 6.61 min Scan# 820
 Delta R.T. -0.06 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

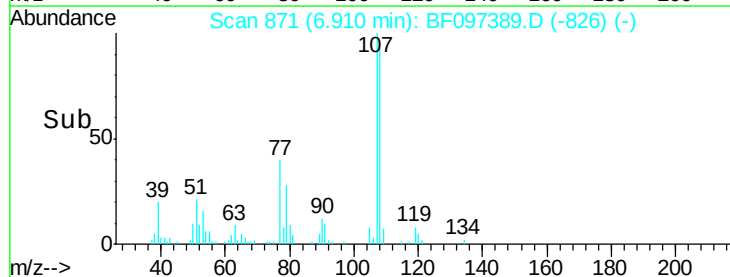
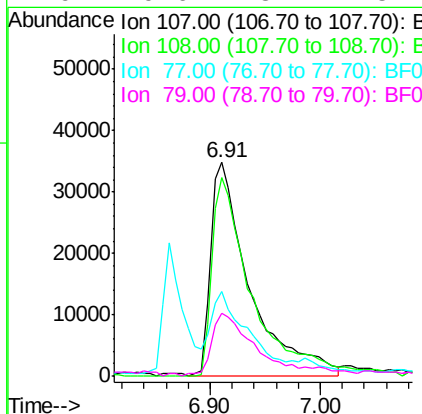
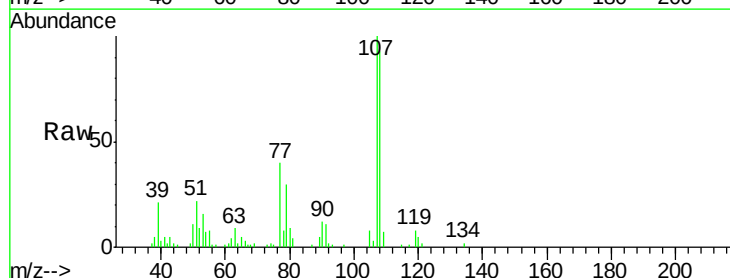
Instrument :
 BNA_F
 ClientSampleId :

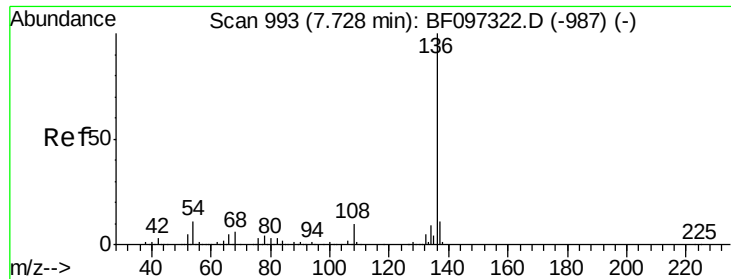
Tot Ion:146 Resp: 49603
 Ion Ratio Lower Upper
 146 100
 148 61.4 50.4 75.6
 111 42.5 38.2 57.4



#20
 3+4-Methylphenols
 Concen: 11.37 ng
 RT: 6.91 min Scan# 871
 Delta R.T. -0.04 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

Tgt Ion:107 Resp: 84989
 Ion Ratio Lower Upper
 107 100
 108 93.2 71.0 111.0
 77 39.6 90.5 130.5#
 79 29.6 8.4 48.4

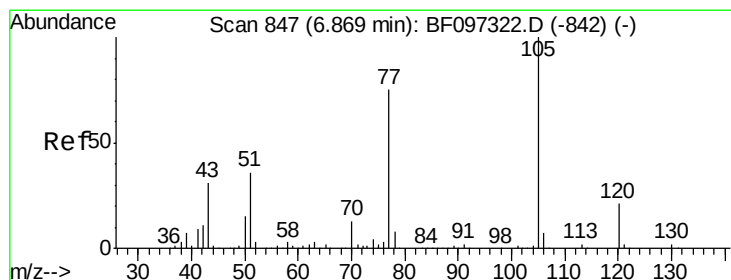
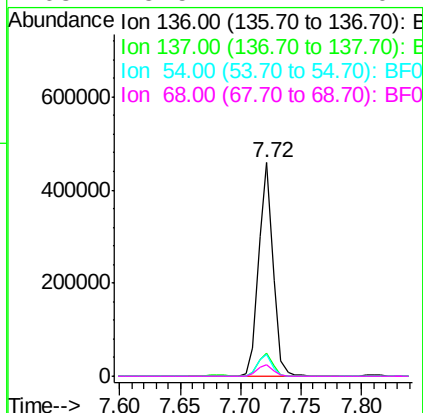
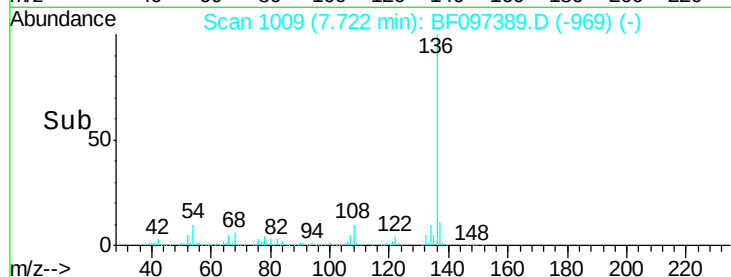
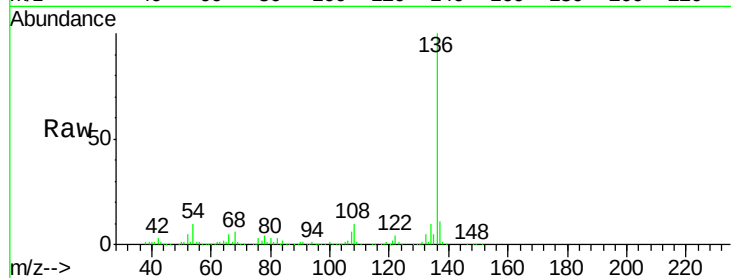




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.72 min Scan# 1009
Delta R.T. -0.06 min
Lab File: BF097389.D
Acq: 5 Aug 2017 7:22

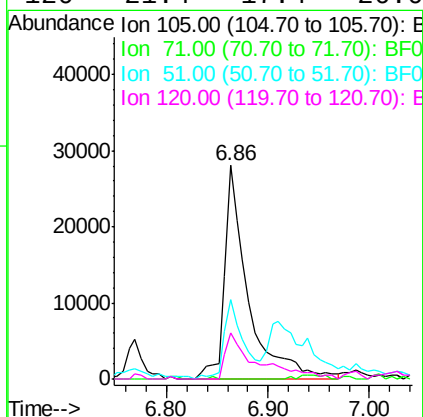
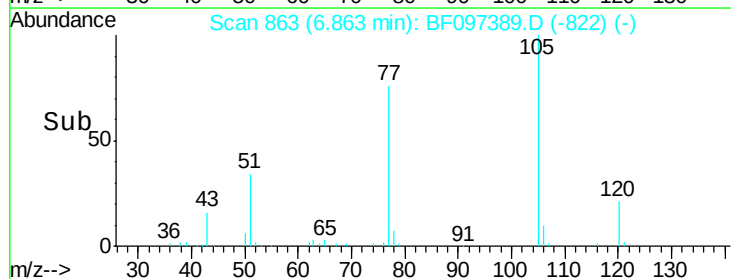
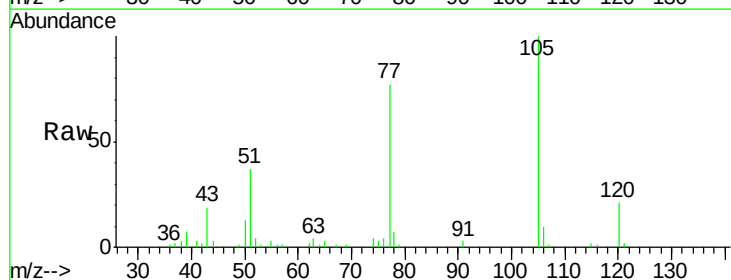
Instrument :
BNA_F
ClientSampleId :

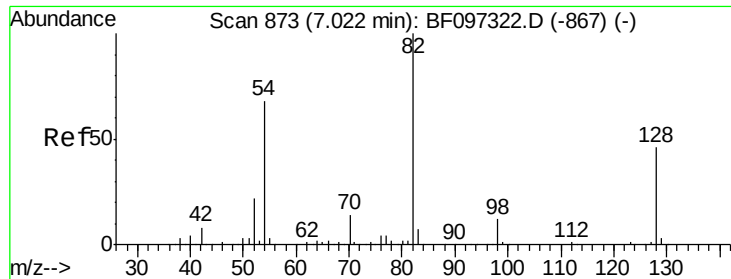
Tot Ion:136	Resp:	383251
Ion Ratio	Lower	Upper
136	100	
137	10.9	8.5 12.7
54	10.4	4.9 7.3#
68	5.5	4.1 6.1



#22
Acetophenone
Concen: 4.91 ng
RT: 6.86 min Scan# 863
Delta R.T. -0.06 min
Lab File: BF097389.D
Acq: 5 Aug 2017 7:22

Tgt Ion:105	Resp:	45189
Ion Ratio	Lower	Upper
105	100	
71	0.0	2.8 4.2#
51	37.3	30.7 46.1
120	21.4	17.4 26.0

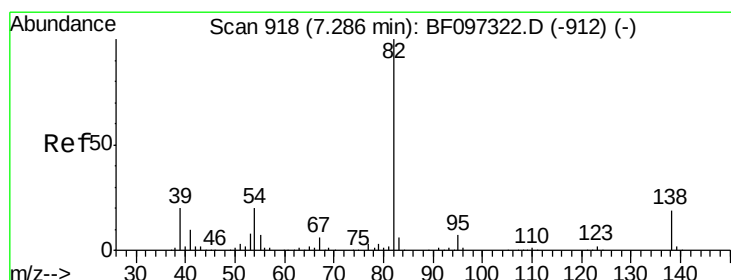
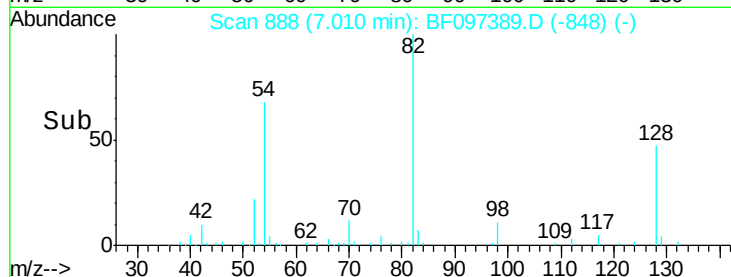
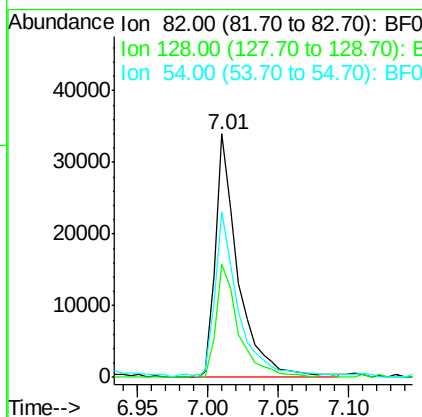
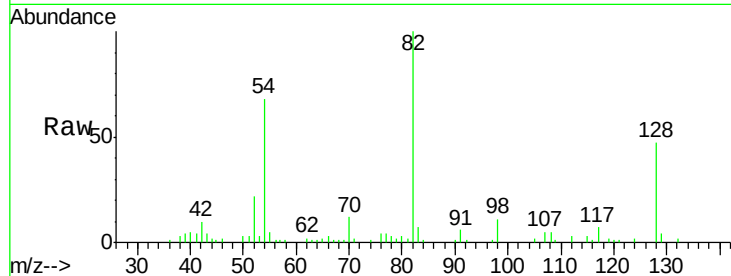




#23
Nitrobenzene-d5
Concen: 5.86 ng
RT: 7.01 min Scan# 888
Delta R.T. -0.06 min
Lab File: BF097389.D
Acq: 5 Aug 2017 7:22

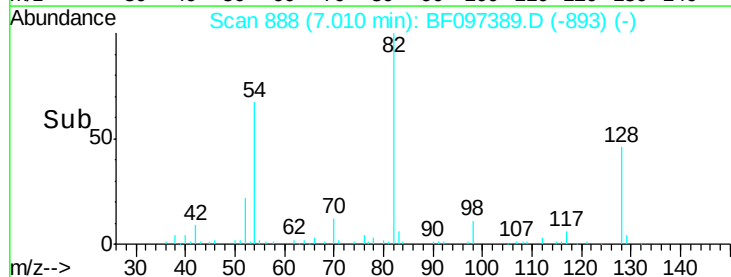
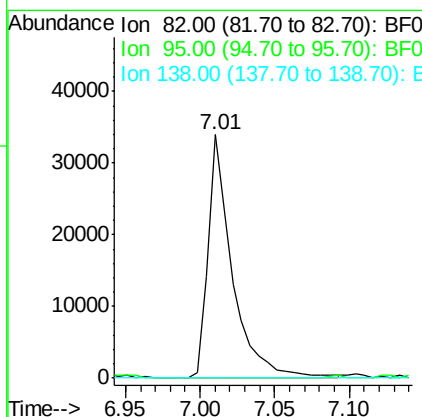
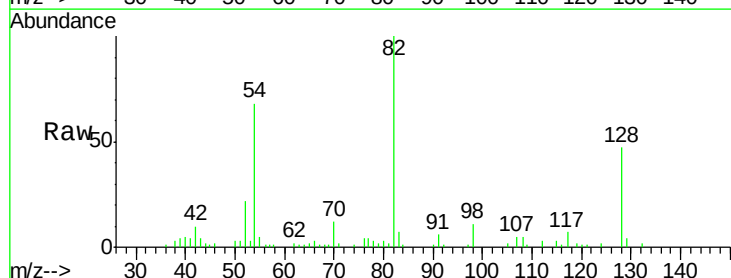
Instrument :
BNA_F
ClientSampleId :

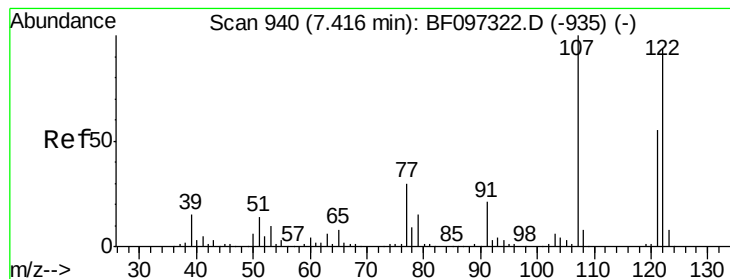
Tot Ion: 82 Resp: 38278
Ion Ratio Lower Upper
82 100
128 46.5 34.0 51.0
54 68.2 42.2 63.2#



#25
Isophorone
Concen: 2.99 ng
RT: 7.01 min Scan# 888
Delta R.T. -0.33 min
Lab File: BF097389.D
Acq: 5 Aug 2017 7:22

Tgt Ion: 82 Resp: 38277
Ion Ratio Lower Upper
82 100
95 0.0 5.3 7.9#
138 0.0 13.1 19.7#





#27

2,4-Dimethylphenol

Concen: 6.13 ng

RT: 7.42 min Scan# 958

Delta R.T. -0.05 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampled :

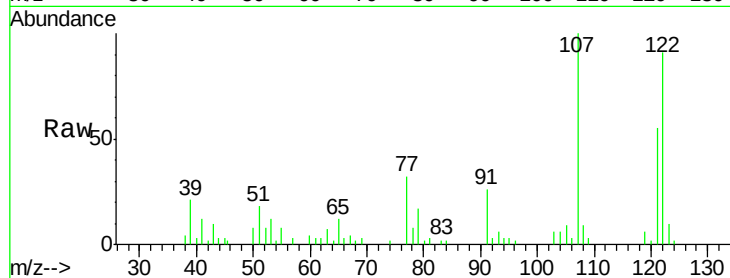
Tot Ion:122 Resp: 37246

Ion Ratio Lower Upper

122 100

107 109.5 89.2 133.8

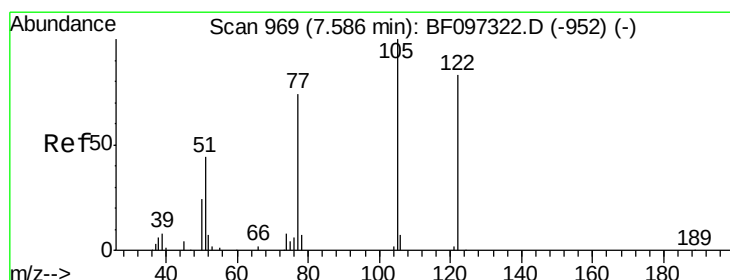
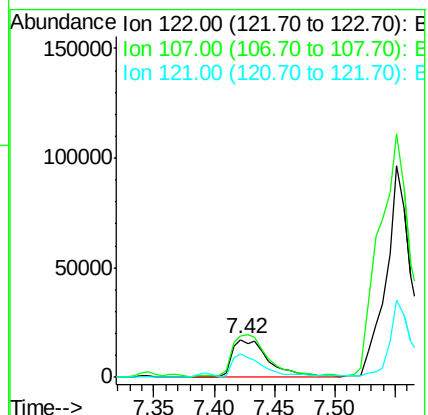
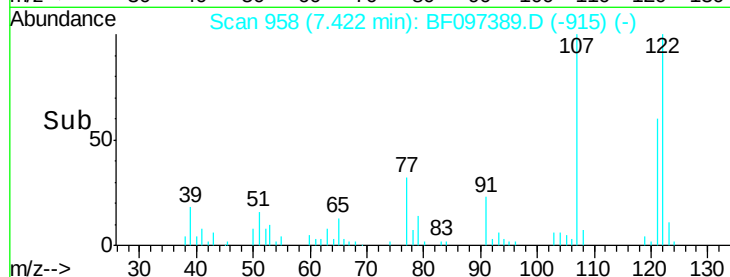
121 60.4 45.2 67.8



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#32

Benzoic acid

Concen: 33.07 ng

RT: 7.55 min Scan# 980

Delta R.T. -0.08 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

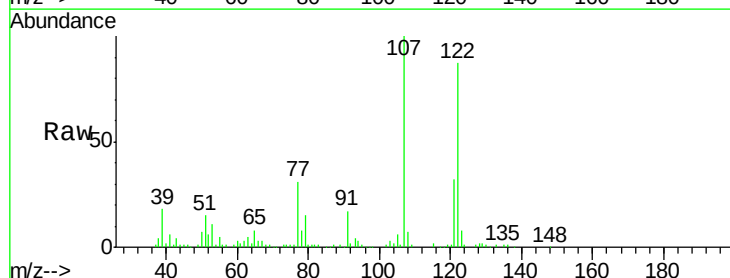
Tgt Ion:122 Resp: 149939

Ion Ratio Lower Upper

122 100

105 6.4 103.3 143.3#

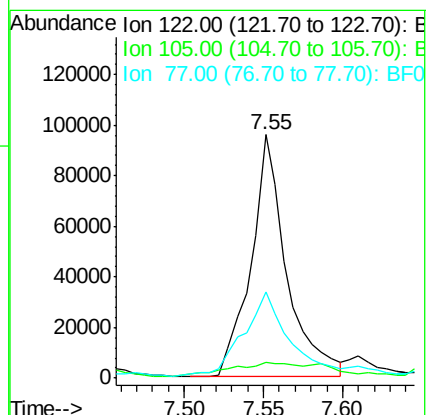
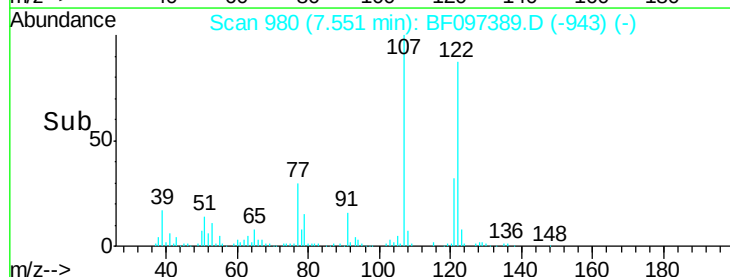
77 35.5 73.7 113.7#

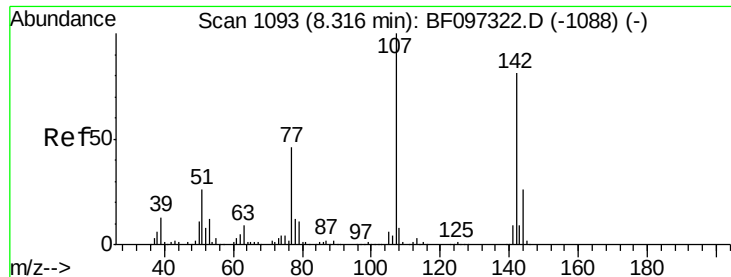


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

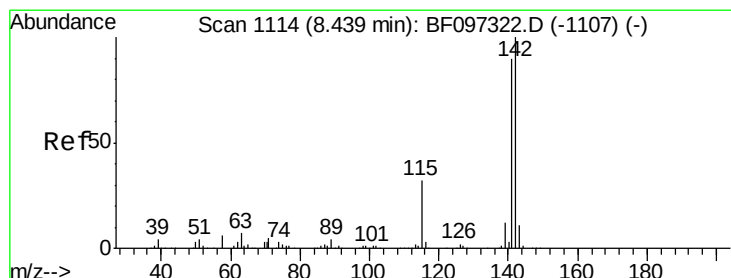
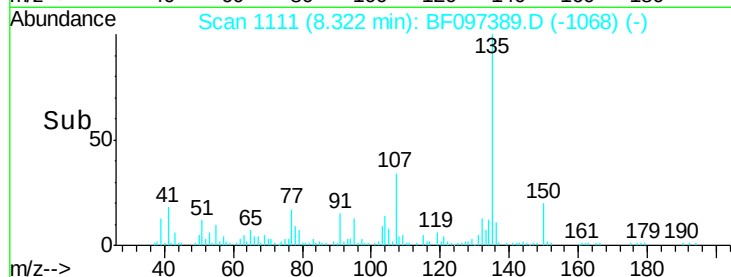
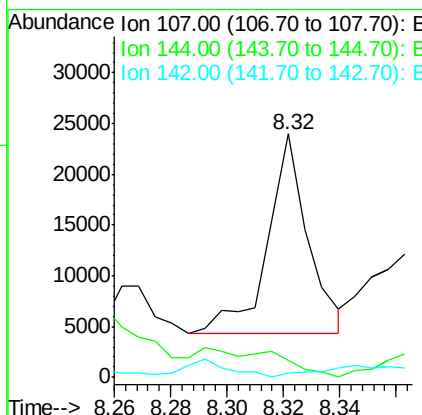
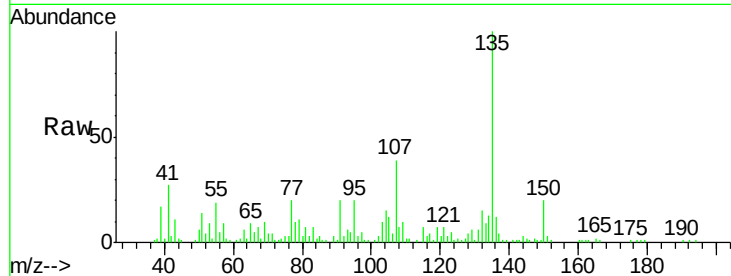




#36
4-Chloro-3-methylphenol
Concen: 3.41 ng
RT: 8.32 min Scan# 1111
Delta R.T. -0.05 min
Lab File: BF097389.D
Acq: 5 Aug 2017 7:22

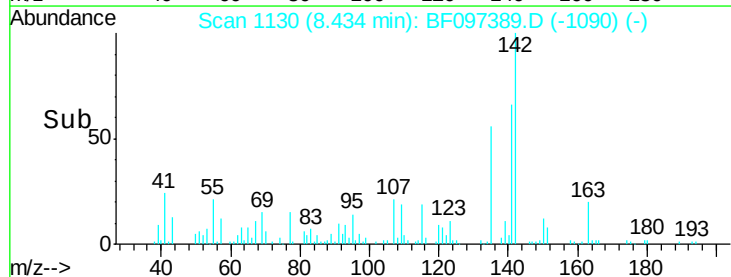
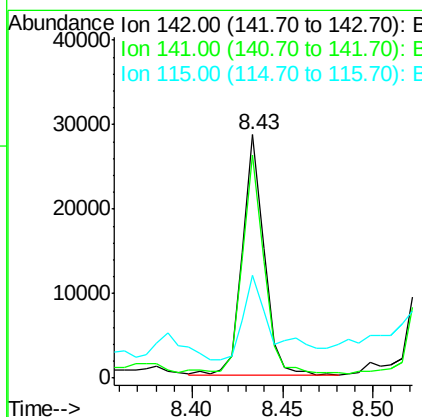
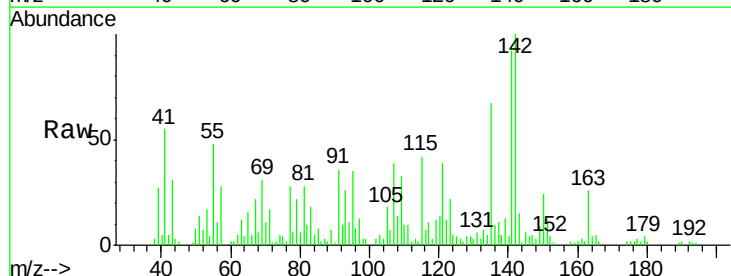
Instrument :
BNA_F
ClientSampleId :

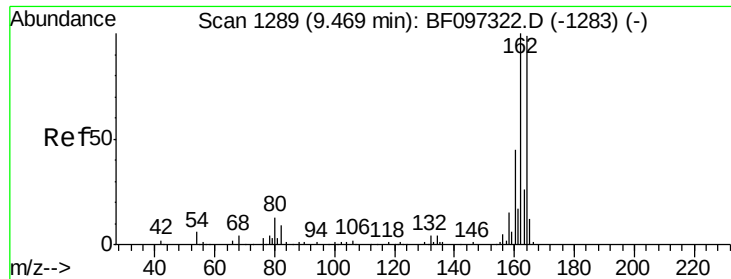
Tot Ion:107 Resp: 19437
Ion Ratio Lower Upper
107 100
144 6.9 24.2 36.4#
142 1.6 73.4 110.0#



#37
2-Methylnaphthalene
Concen: 2.09 ng
RT: 8.43 min Scan# 1130
Delta R.T. -0.06 min
Lab File: BF097389.D
Acq: 5 Aug 2017 7:22

Tgt Ion:142 Resp: 23897
Ion Ratio Lower Upper
142 100
141 91.8 71.3 106.9
115 42.2 27.1 40.7#

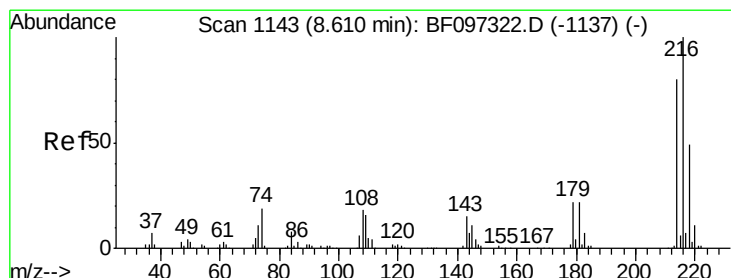
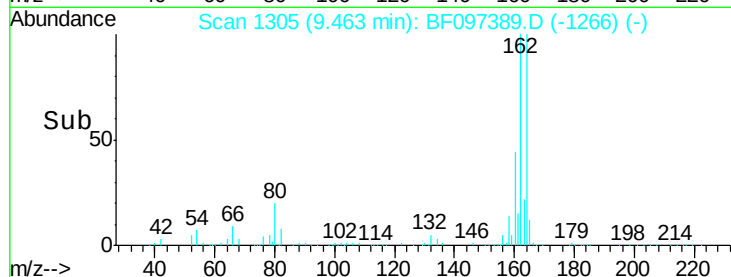
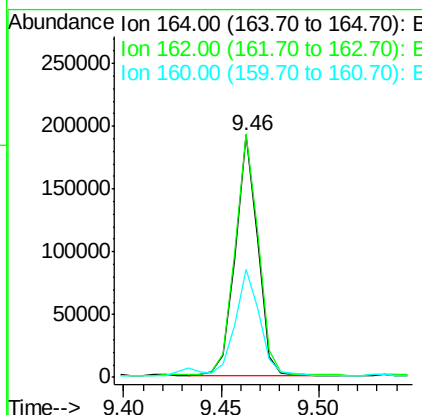
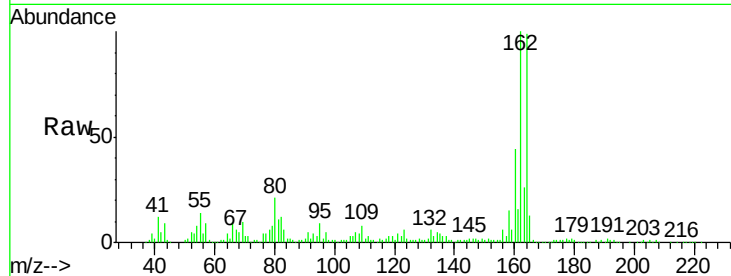




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.46 min Scan# 1305
 Delta R.T. -0.07 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

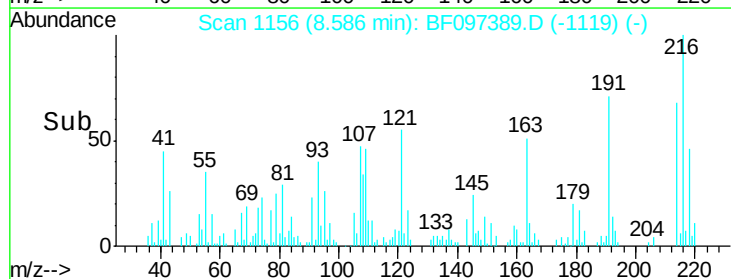
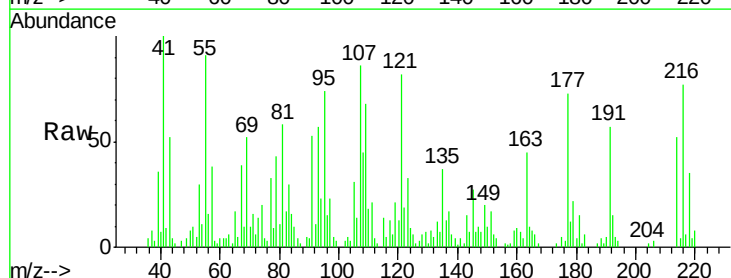
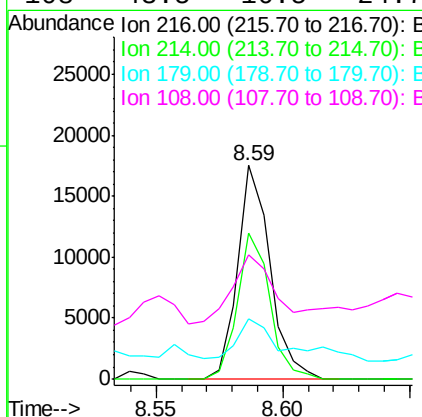
Instrument :
 BNA_F
 ClientSampleId :

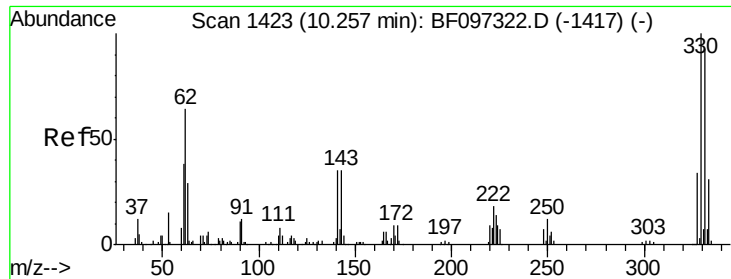
Tot Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.6	123.8
160	44.8	36.2	54.2



#39
 1,2,4,5-Tetrachlorobenzene
 Concen: 3.81 ng
 RT: 8.59 min Scan# 1156
 Delta R.T. -0.08 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

Tgt Ion	Ratio	Lower	Upper
216	100		
214	68.4	63.4	95.2
179	43.5	17.9	26.9#
108	43.5	16.5	24.7#

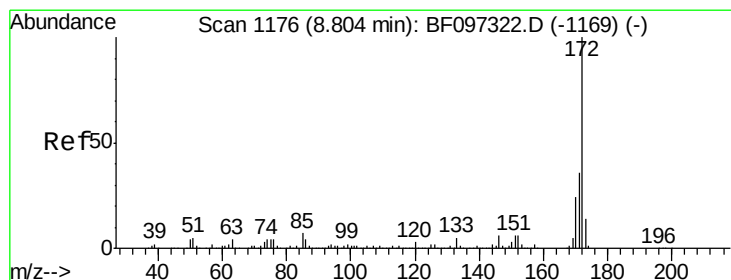
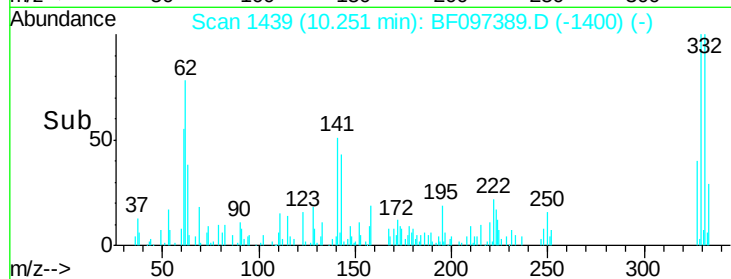
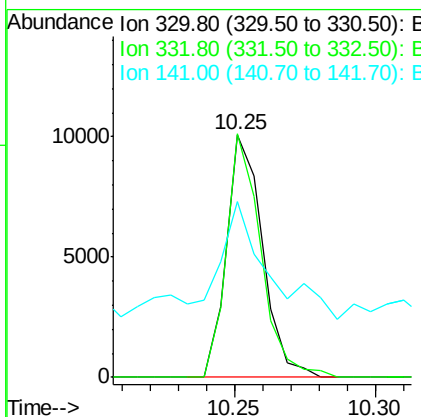
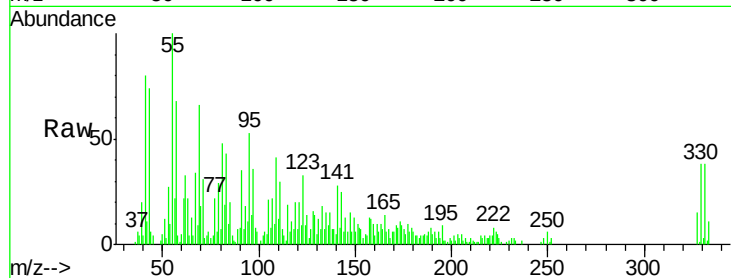




#41
 2,4,6-Tribromophenol
 Concen: 7.35 ng
 RT: 10.25 min Scan# 1439
 Delta R.T. -0.07 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

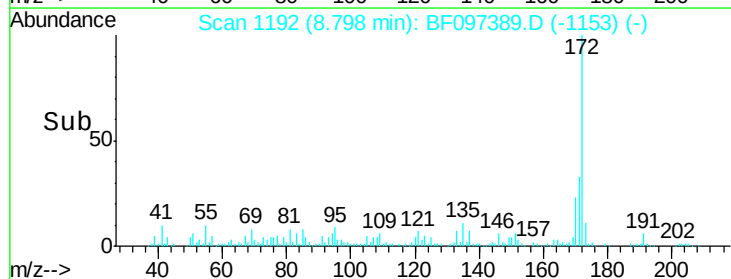
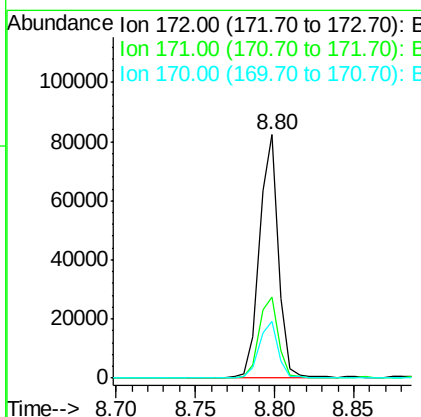
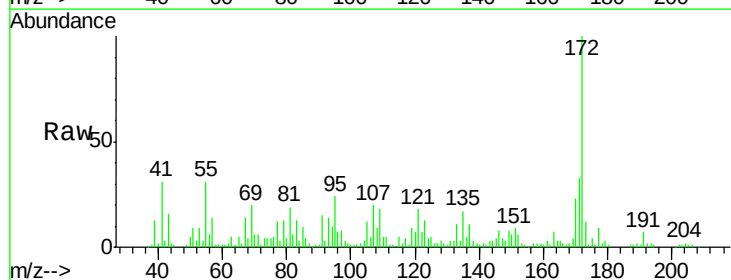
Instrument :
 BNA_F
 ClientSampleId :

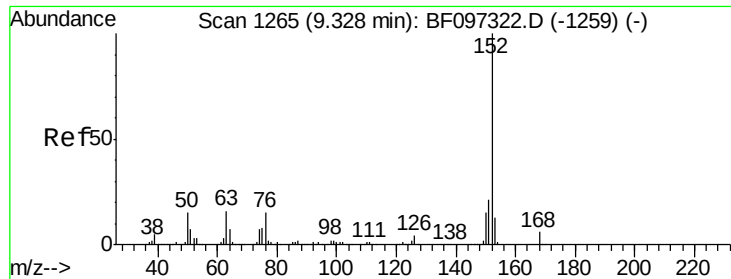
Tot Ion:330 Resp: 8899
 Ion Ratio Lower Upper
 330 100
 332 96.4 76.6 115.0
 141 80.8 31.4 47.2#



#44
 2-Fluorobiphenyl
 Concen: 7.66 ng
 RT: 8.80 min Scan# 1192
 Delta R.T. -0.07 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

Tgt Ion:172 Resp: 69124
 Ion Ratio Lower Upper
 172 100
 171 33.2 29.6 44.4
 170 23.1 19.8 29.8





#48

Acenaphthylene

Concen: 2.36 ng

RT: 9.33 min Scan# 1282

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

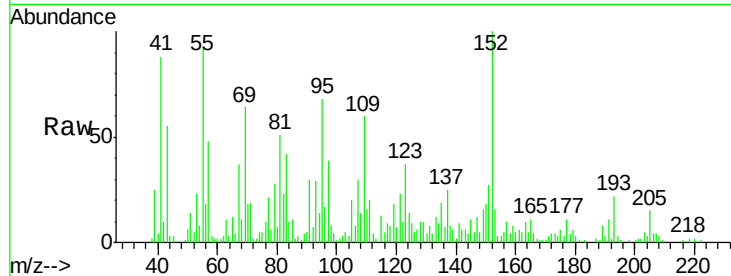
Tot Ion:152 Resp: 34917

Ion Ratio Lower Upper

152 100

151 27.1 16.8 25.2#

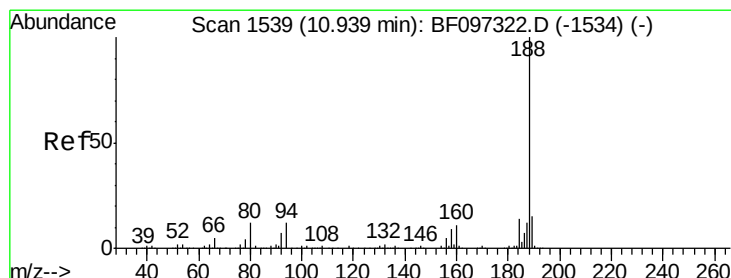
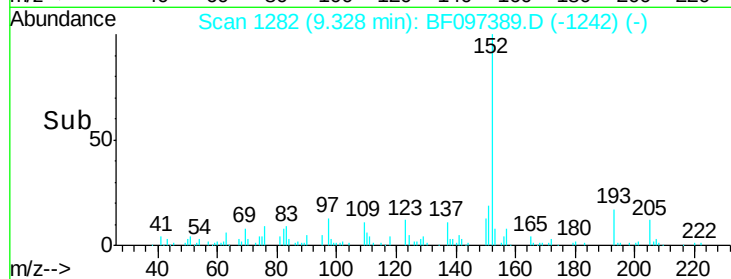
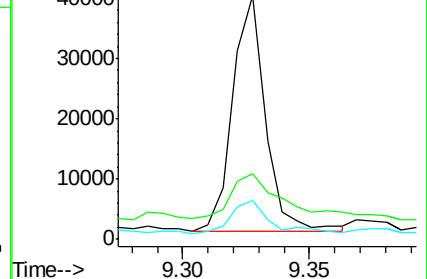
153 15.9 10.8 16.2



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.93 min Scan# 1555

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

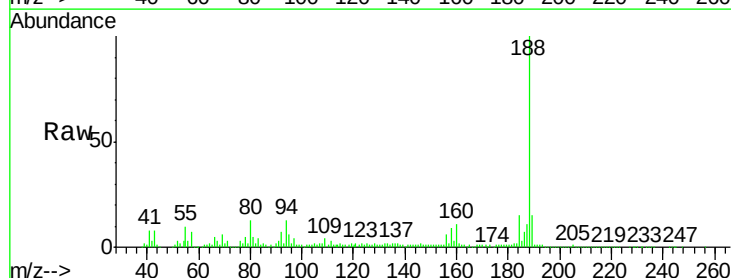
Tgt Ion:188 Resp: 208090

Ion Ratio Lower Upper

188 100

94 12.7 9.4 14.2

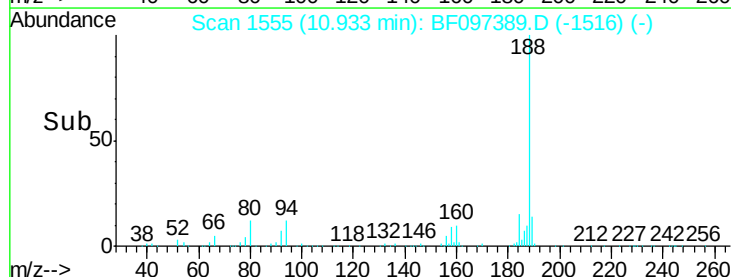
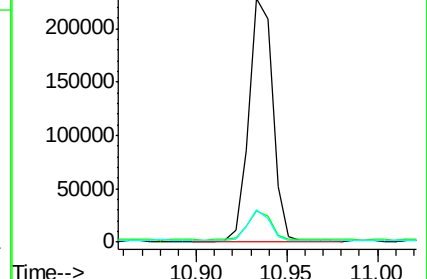
80 13.3 10.2 15.2

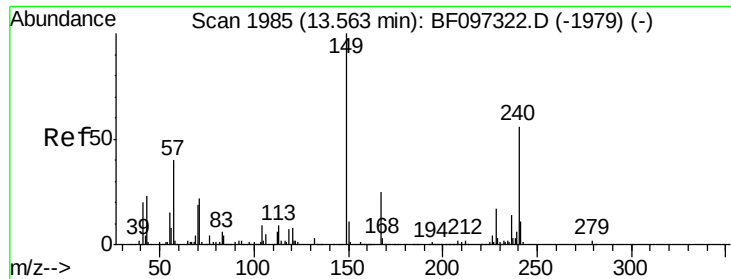


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.56 min Scan# 2001

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampled :

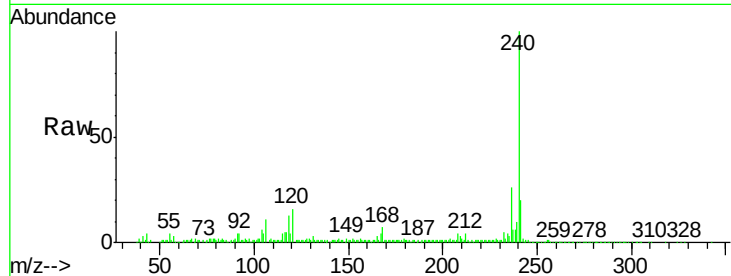
Tot Ion:240 Resp: 169073

Ion Ratio Lower Upper

240 100

120 16.2 5.8 8.8#

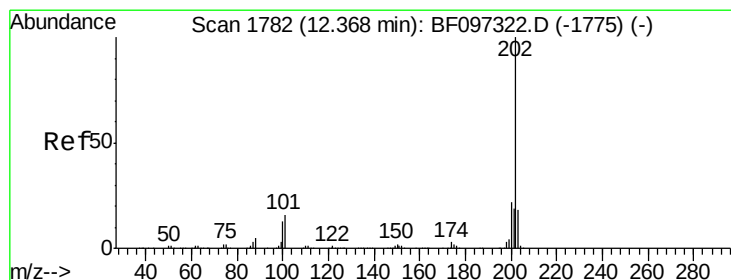
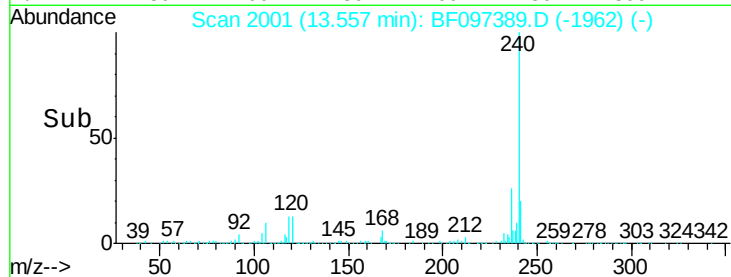
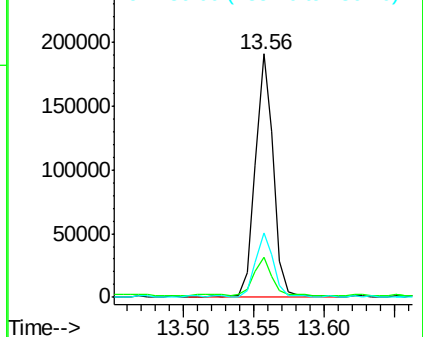
236 26.2 20.5 30.7



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: 2.09 ng

RT: 12.36 min Scan# 1798

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

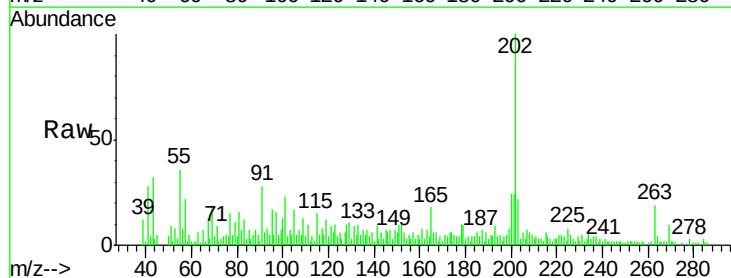
Tgt Ion:202 Resp: 28963

Ion Ratio Lower Upper

202 100

200 23.9 17.6 26.4

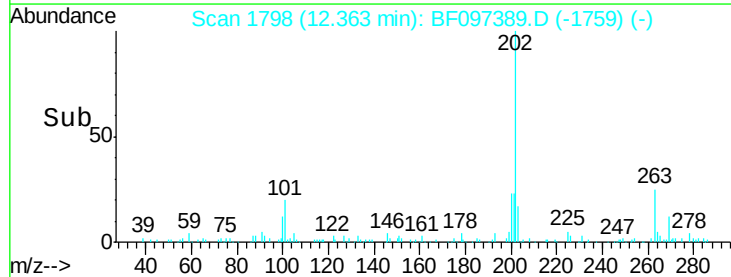
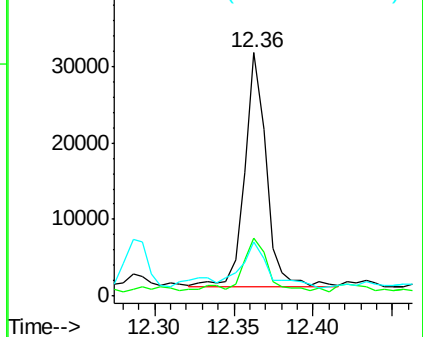
203 22.1 14.4 21.6#

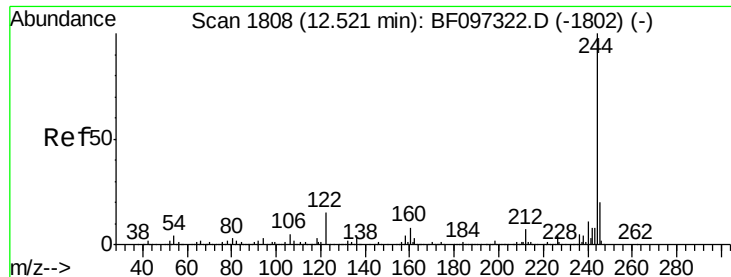


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

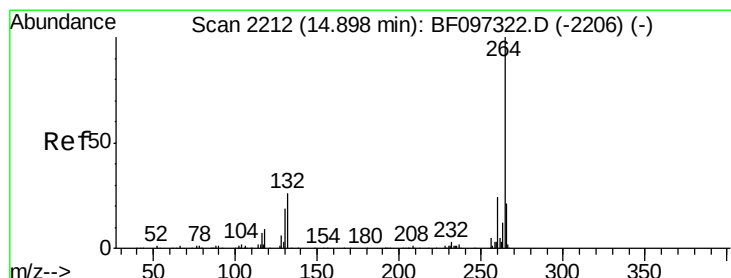
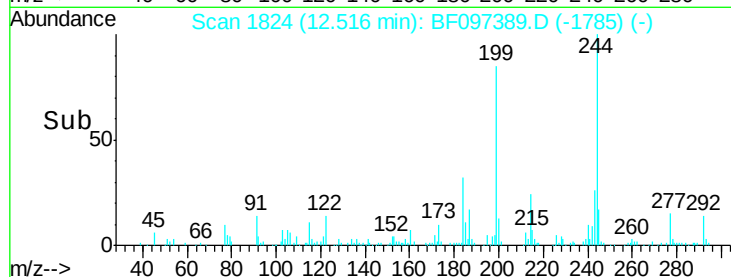
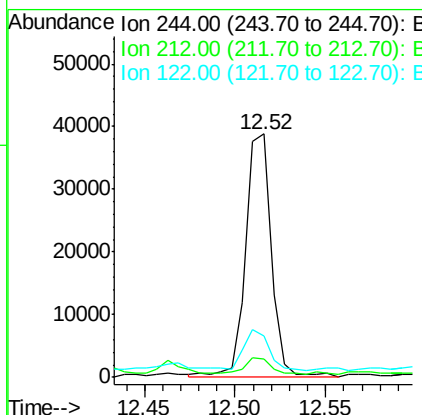
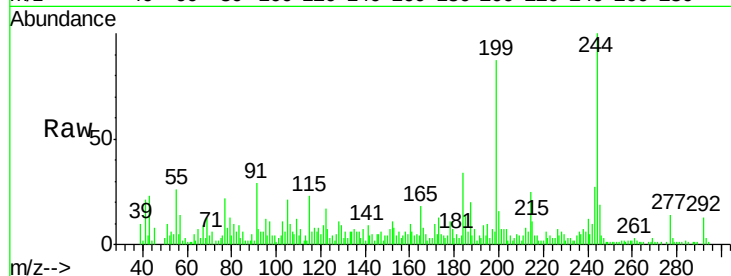




#78
 Terphenyl-d14
 Concen: 4.66 ng
 RT: 12.52 min Scan# 1824
 Delta R.T. -0.07 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

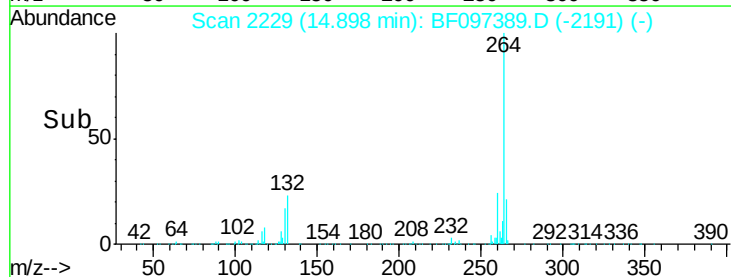
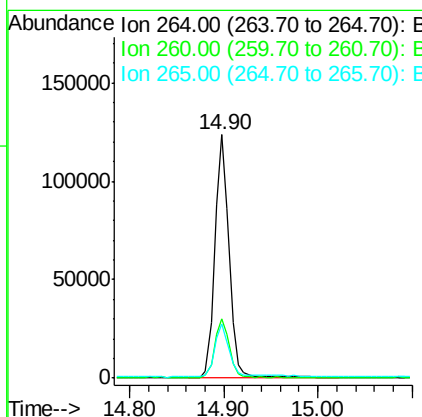
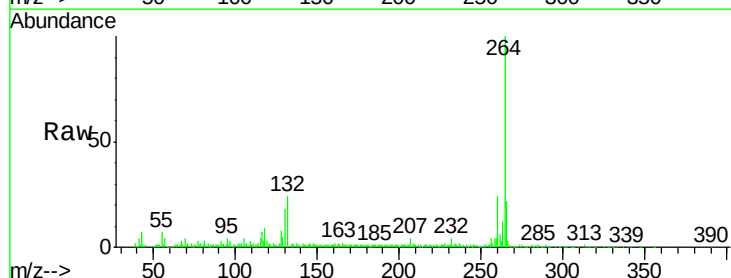
Instrument :
 BNA_F
 ClientSampleId :

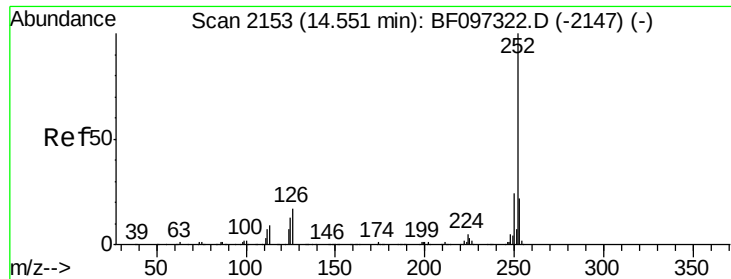
Tot Ion:244 Resp: 38619
 Ion Ratio Lower Upper
 244 100
 212 7.6 6.0 9.0
 122 16.9 10.3 15.5#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.90 min Scan# 2229
 Delta R.T. -0.08 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

Tgt Ion:264 Resp: 131655
 Ion Ratio Lower Upper
 264 100
 260 24.4 19.5 29.3
 265 22.1 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 5.19 ng

RT: 14.55 min Scan# 2170

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

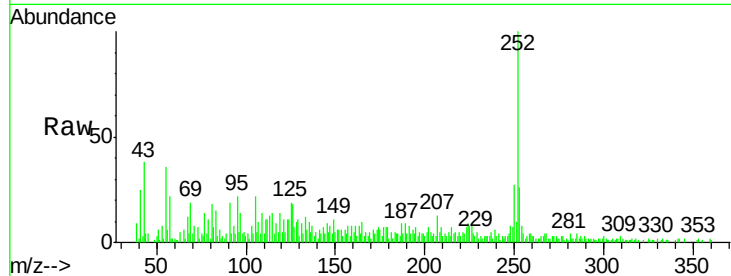
Tot Ion:252 Resp: 41077

Ion Ratio Lower Upper

252 100

253 26.2 18.1 27.1

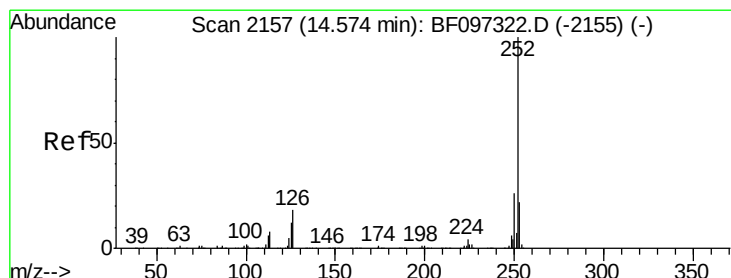
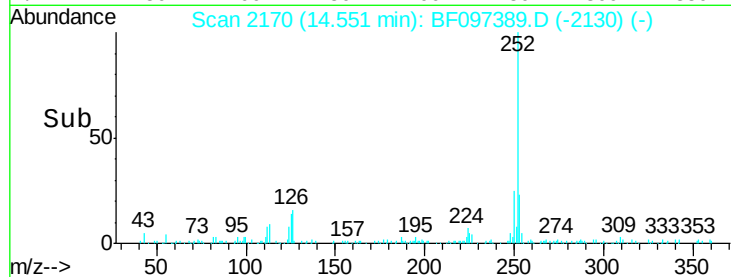
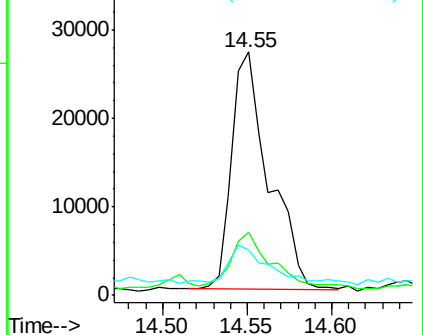
125 18.8 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 5.45 ng

RT: 14.55 min Scan# 2170

Delta R.T. -0.09 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

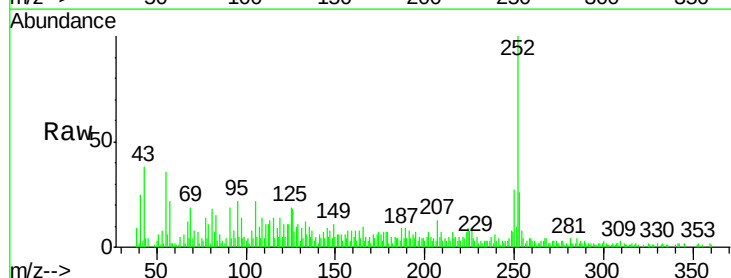
Tgt Ion:252 Resp: 41077

Ion Ratio Lower Upper

252 100

253 26.2 18.4 27.6

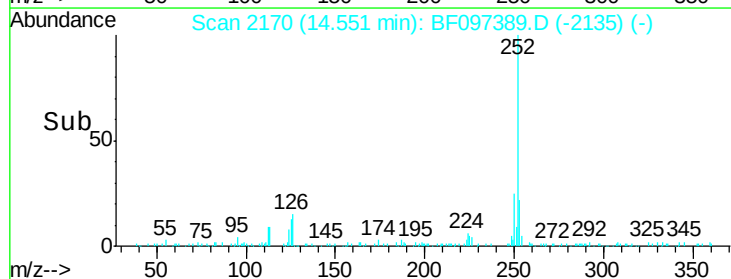
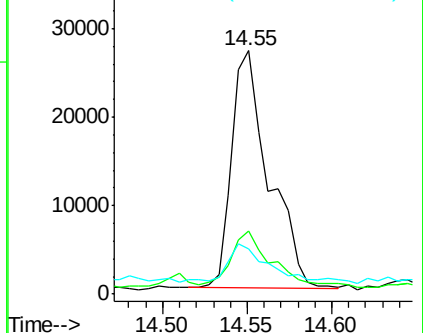
125 18.8 13.1 19.7

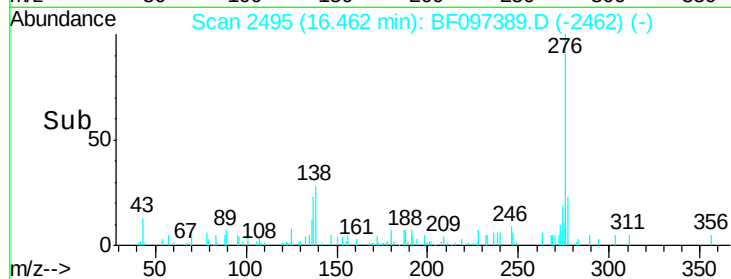
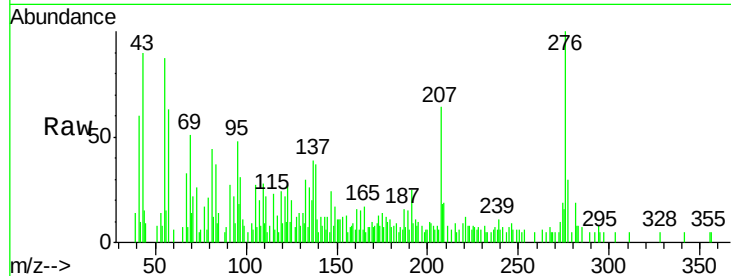
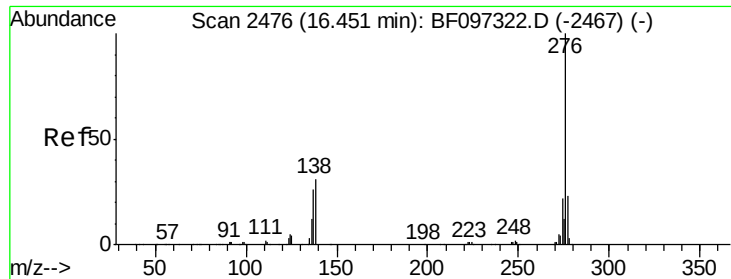


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 2.08 ng

RT: 16.46 min Scan# 2495

Delta R.T. -0.11 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 12954

Ion Ratio Lower Upper

276 100

277 29.5 18.6 28.0#

138 36.6 25.4 38.0

