

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080817\
 Data File : BF097491.D
 Acq On : 9 Aug 2017 1:51
 Operator : SJ/JU
 Sample : I4657-13
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-080717-E

Quant Time: Aug 09 03:15:20 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

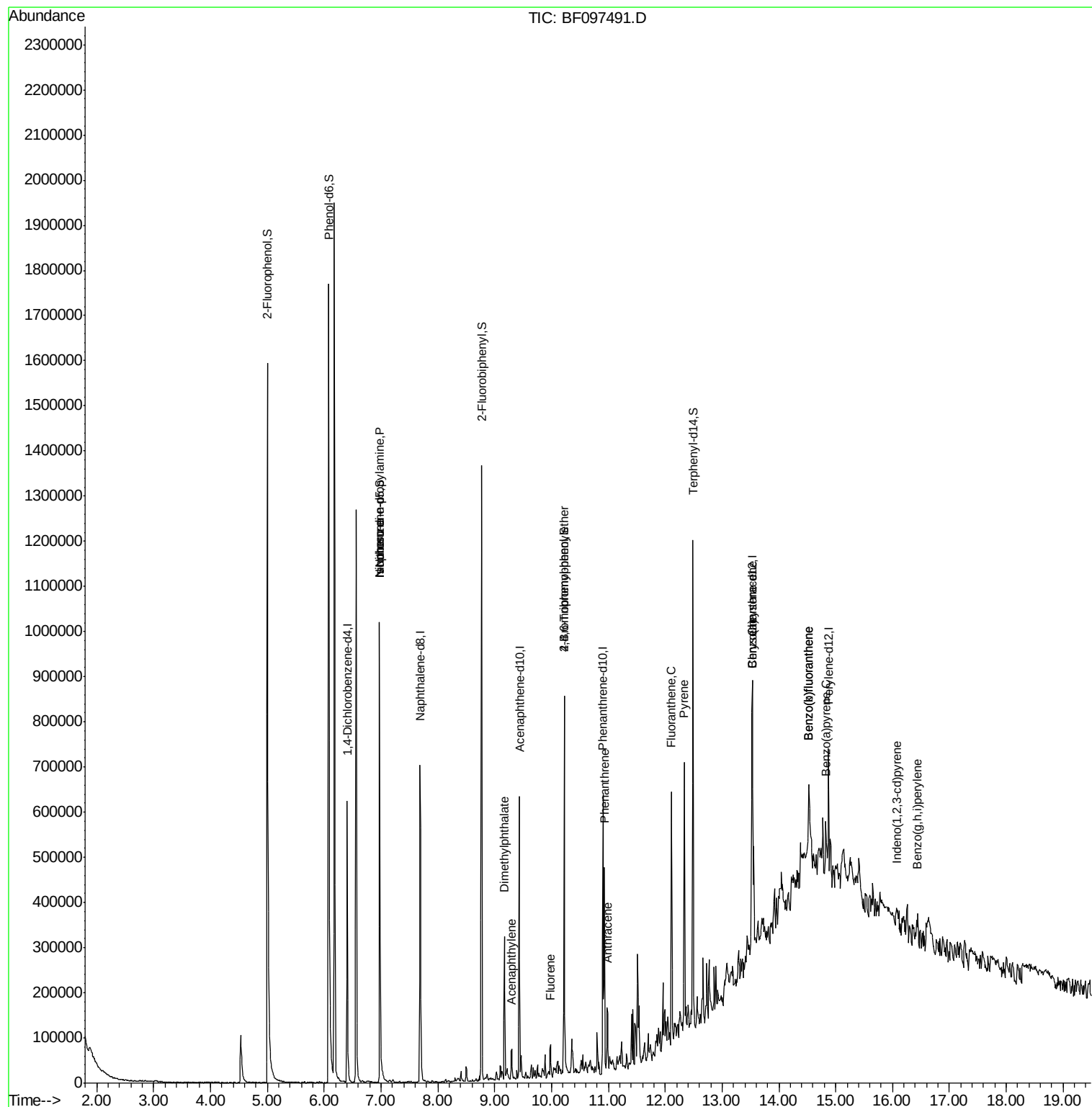
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.40	152	97912	20.00	ng	0.00
21) Naphthalene-d8	7.69	136	324585	20.00	ng	-0.01
38) Acenaphthene-d10	9.43	164	117846	20.00	ng	0.00
63) Phenanthrene-d10	10.90	188	215347	20.00	ng	-0.01
75) Chrysene-d12	13.53	240	174476	20.00	ng	0.00
86) Perylene-d12	14.87	264	112770	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.00	112	588980	90.68	ng	0.00
7) Phenol-d6	6.08	99	669368	90.27	ng	0.00
23) Nitrobenzene-d5	6.98	82	350949	63.43	ng	-0.01
41) 2,4,6-Tribromophenol	10.22	330	86695	93.11	ng	-0.01
44) 2-Fluorobiphenyl	8.77	172	412844	59.45	ng	0.00
78) Terphenyl-d14	12.49	244	350436	40.95	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	6.97	70	46750	9.58	ng	# 84
25) Isophorone	6.98	82	350946	32.39	ng	# 67
48) Acenaphthylene	9.30	152	25961	2.28	ng	98
49) Dimethylphthalate	9.17	163	111923	12.51	ng	99
57) Fluorene	9.98	166	18917	2.82	ng	86
66) 4-Bromophenyl-phenylether	10.22	248	5680	2.64	ng	# 1
70) Phenanthrene	10.93	178	161212	13.97	ng	99
71) Anthracene	10.99	178	50313	4.26	ng	99
74) Fluoranthene	12.11	202	220954	19.55	ng	97
77) Pyrene	12.33	202	245628	17.20	ng	98
80) Benzo(a)anthracene	13.52	228	91967	8.15	ng	96
82) Chrysene	13.52	228	91967	8.34	ng	97
85) Indeno(1,2,3-cd)pyrene	16.07	276	22723	2.40	ng	97
87) Benzo(b)fluoranthene	14.53	252	90599	13.36	ng	# 89
88) Benzo(k)fluoranthene	14.53	252	90599	14.03	ng	94
89) Benzo(a)pyrene	14.83	252	51198	8.25	ng	# 91
91) Benzo(a,h,i)perylene	16.43	276	24315	4.56	ng	96

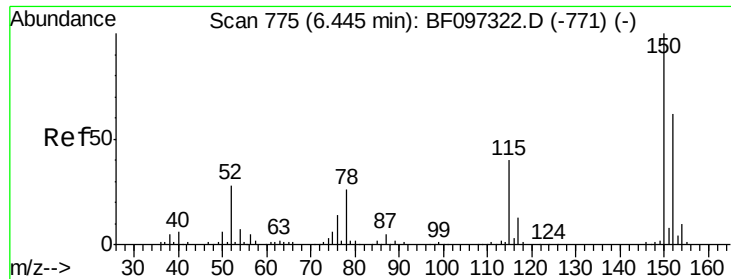
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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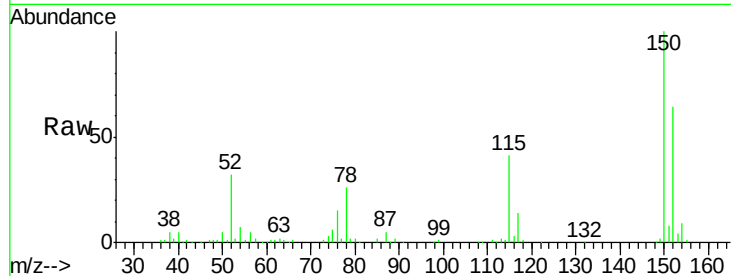


#1

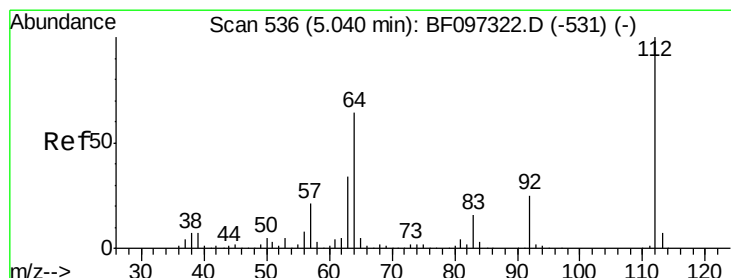
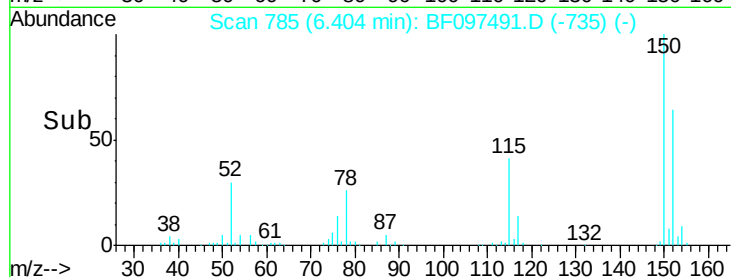
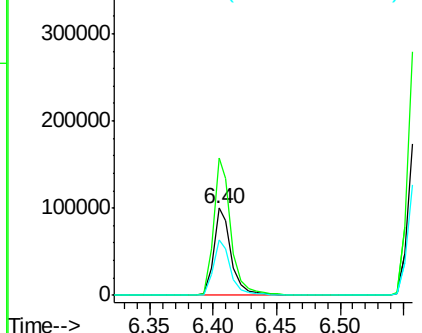
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.40 min Scan# 785
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-080717-E

Tot Ion:152 Resp: 97912
 Ion Ratio Lower Upper
 152 100
 150 157.2 126.2 189.2
 115 64.0 52.2 78.2



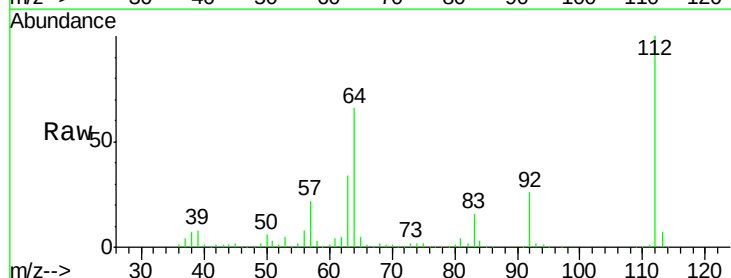
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



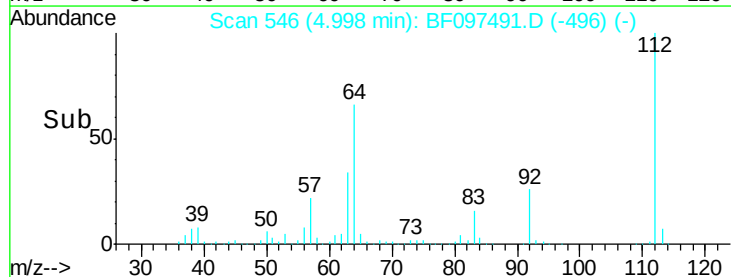
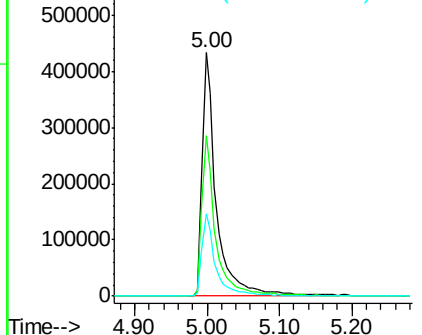
#5

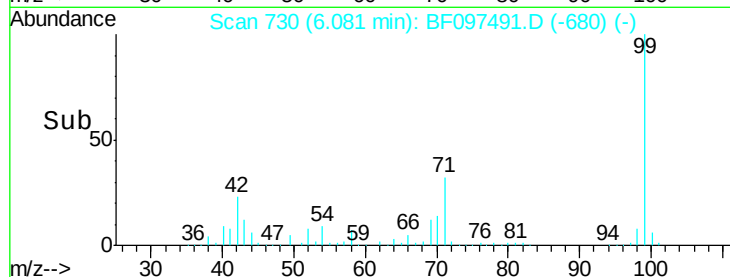
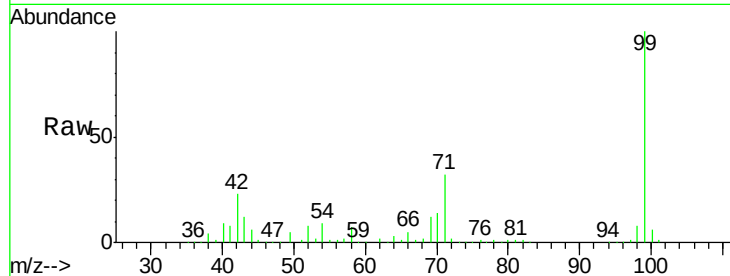
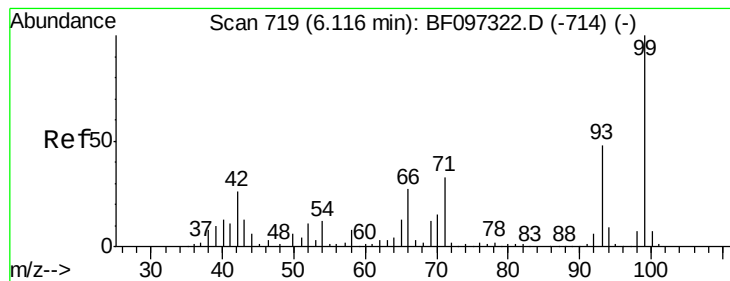
2-Fluorophenol
 Concen: 90.68 ng
 RT: 5.00 min Scan# 546
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

Tgt Ion:112 Resp: 588980
 Ion Ratio Lower Upper
 112 100
 64 65.9 46.0 69.0
 63 33.6 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: 90.27 ng

RT: 6.08 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-01-080717-E

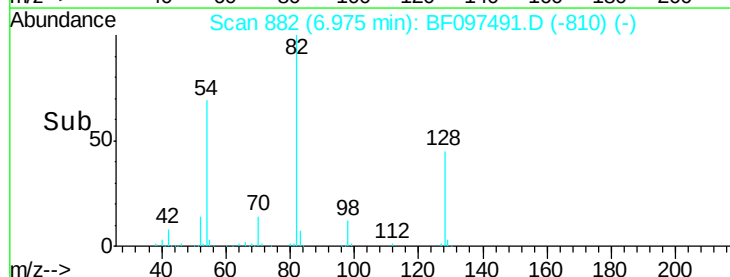
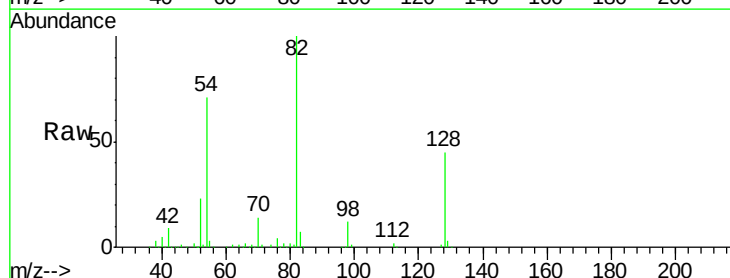
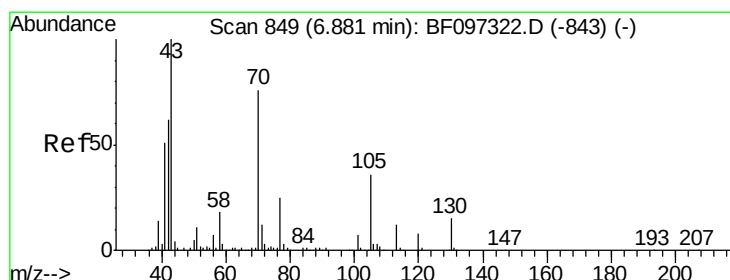
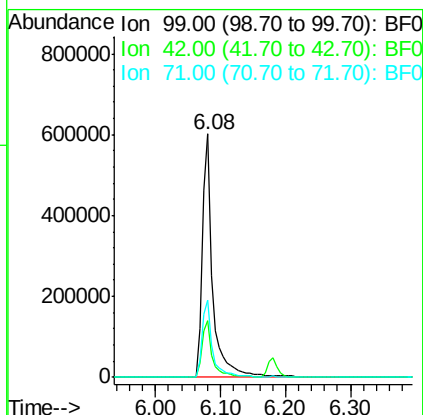
Tot Ion: 99 Resp: 669368

Ion Ratio Lower Upper

99 100

42 23.1 13.5 20.3#

71 32.0 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 9.58 ng

RT: 6.97 min Scan# 882

Delta R.T. 0.12 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Tgt Ion: 70 Resp: 46750

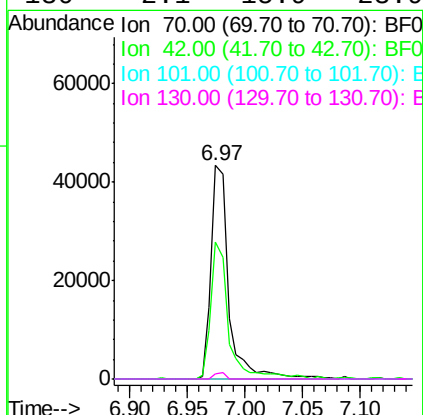
Ion Ratio Lower Upper

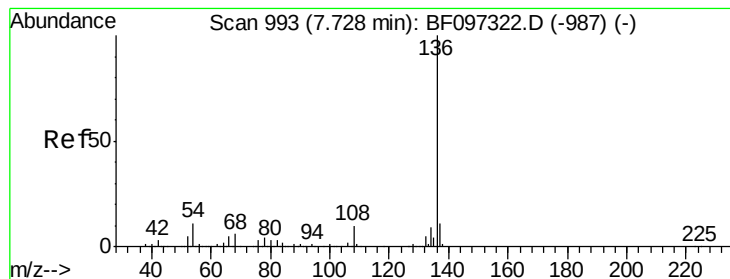
70 100

42 64.2 47.2 70.8

101 0.0 7.2 10.8#

130 2.1 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.69 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-01-080717-E

Tot Ion:136 Resp: 324585

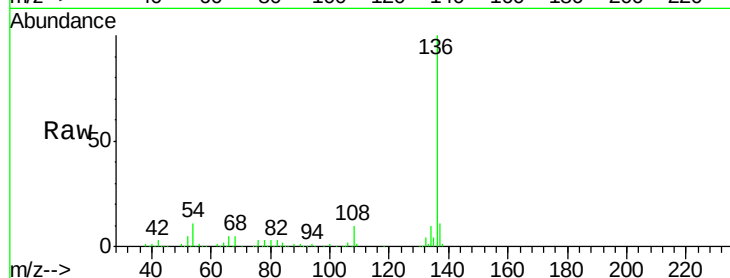
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 10.7 4.9 7.3#

68 5.5 4.1 6.1

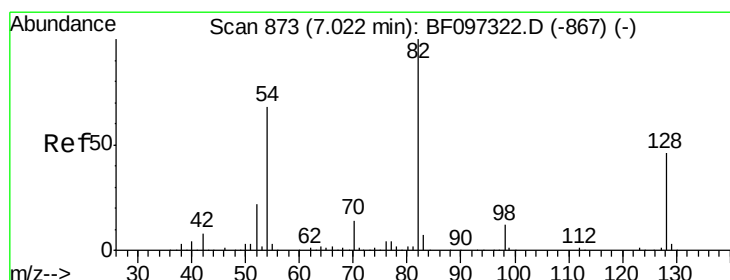
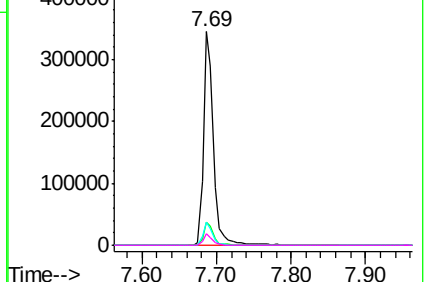
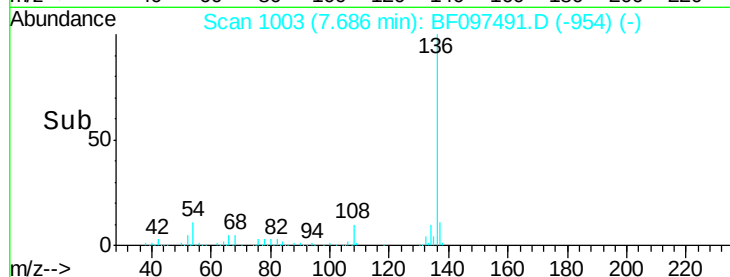


Abundance Ion 136.00 (135.70 to 136.70): E

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: 63.43 ng

RT: 6.98 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

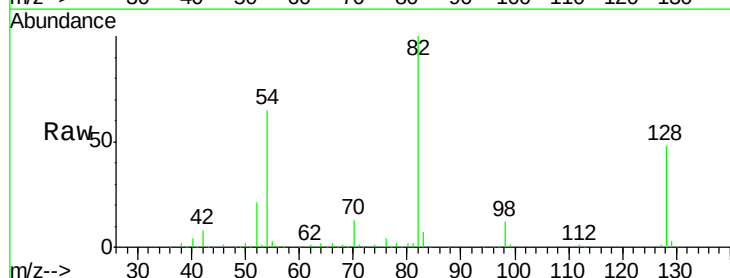
Tgt Ion: 82 Resp: 350949

Ion Ratio Lower Upper

82 100

128 48.4 34.0 51.0

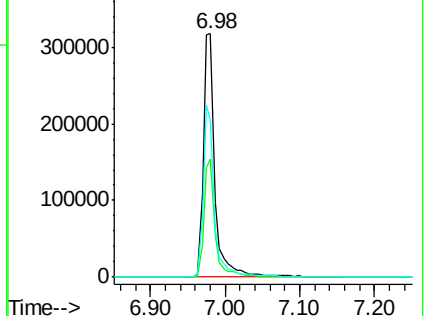
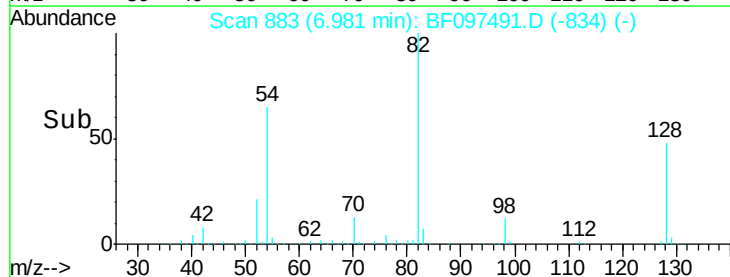
54 64.8 42.2 63.2#

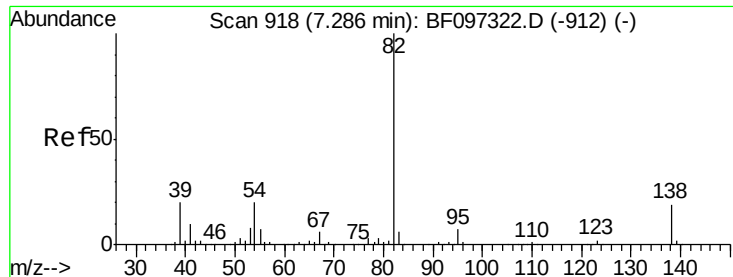


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 32.39 ng

RT: 6.98 min Scan# 883

Delta R.T. -0.27 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-01-080717-E

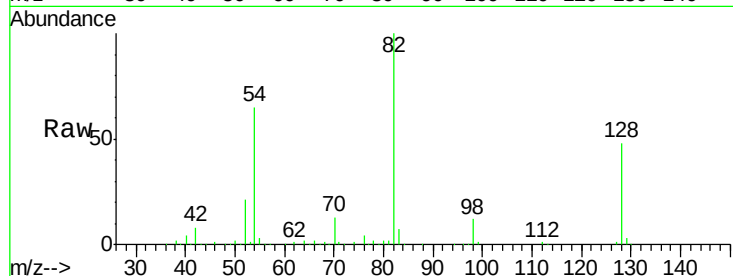
Tot Ion: 82 Resp: 350946

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#

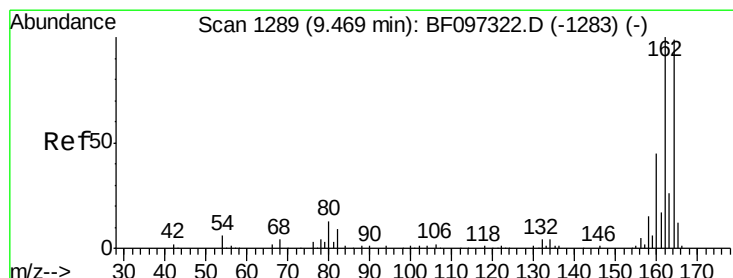
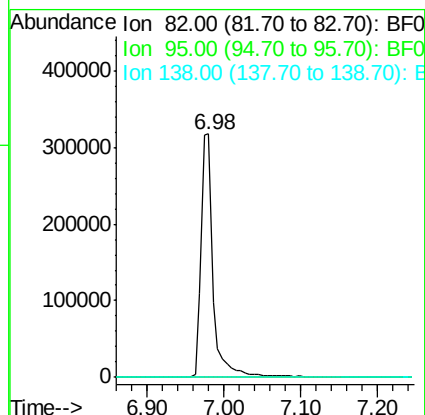
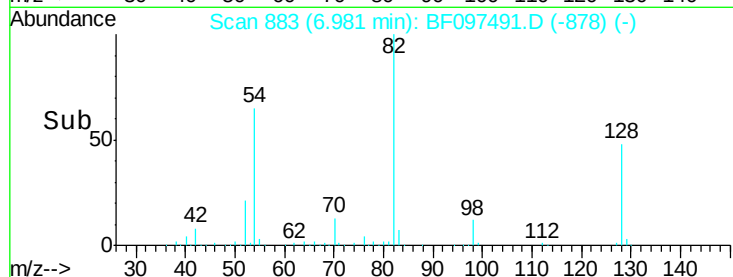


Abundance Ion 82.00 (81.70 to 82.70): BF097322.D (-912) (-)

Ion 95.00 (94.70 to 95.70): BF097322.D (-912) (-)

Ion 138.00 (137.70 to 138.70): BF097322.D (-912) (-)

Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.43 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

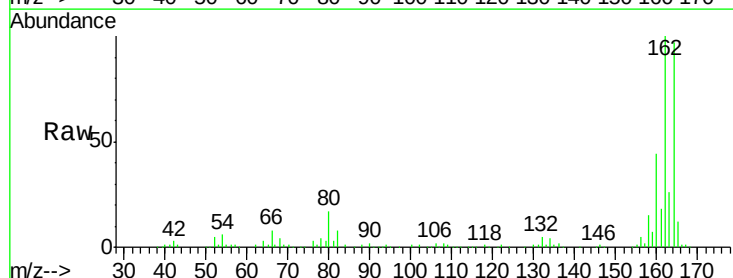
Tgt Ion: 164 Resp: 117846

Ion Ratio Lower Upper

164 100

162 103.1 82.6 123.8

160 45.7 36.2 54.2

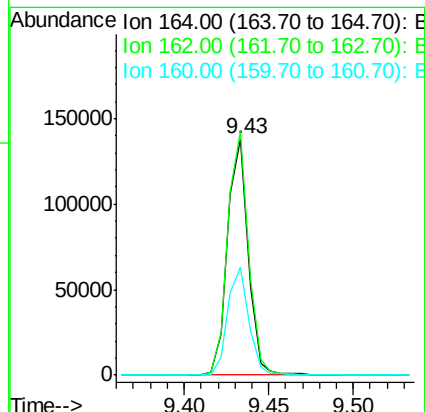
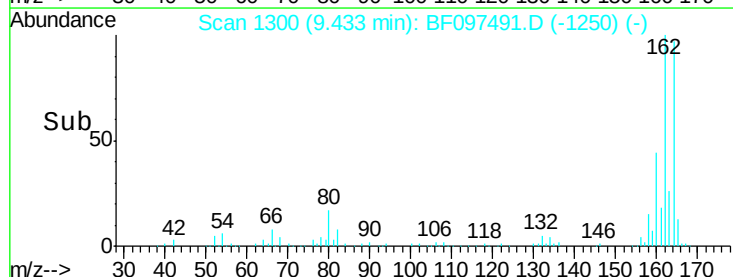


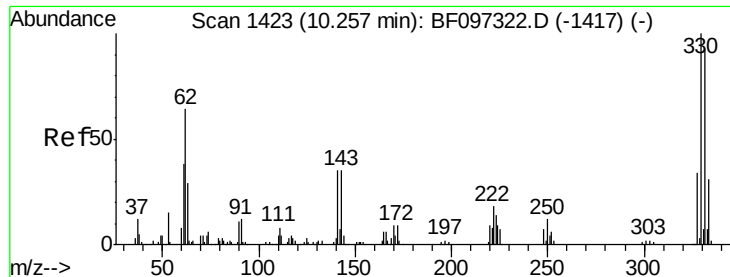
Abundance Ion 164.00 (163.70 to 164.70): BF097322.D (-1283) (-)

Ion 162.00 (161.70 to 162.70): BF097322.D (-1283) (-)

Ion 160.00 (159.70 to 160.70): BF097322.D (-1283) (-)

Time-->

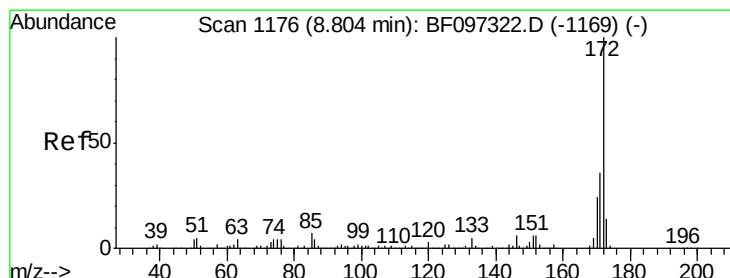
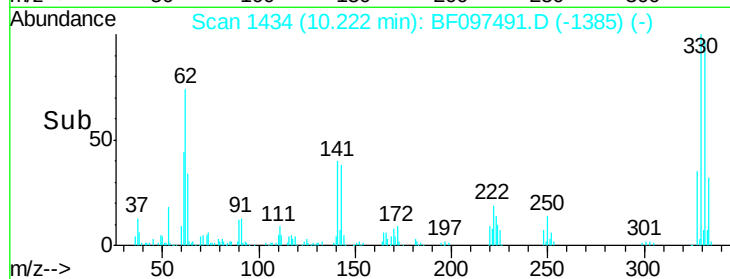
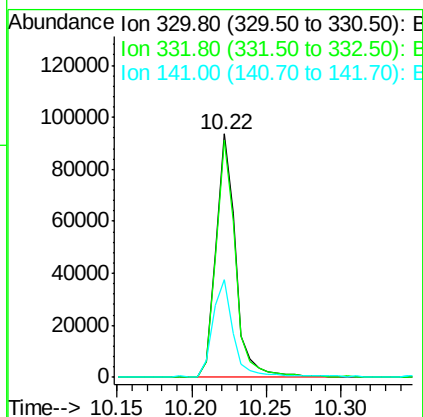
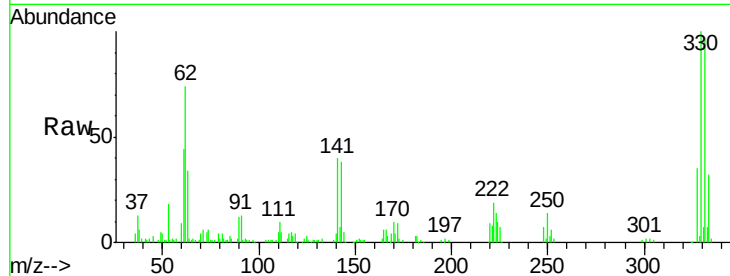




#41
 2,4,6-Tribromophenol
 Concen: 93.11 ng
 RT: 10.22 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

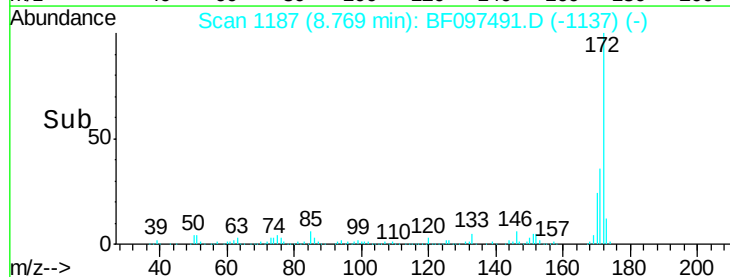
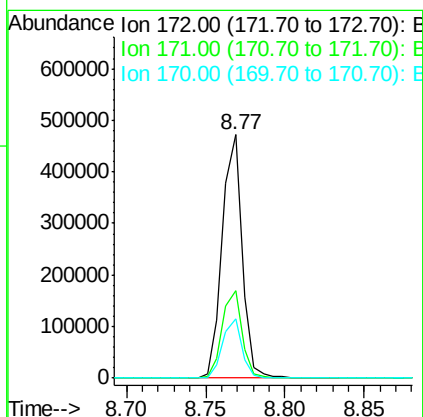
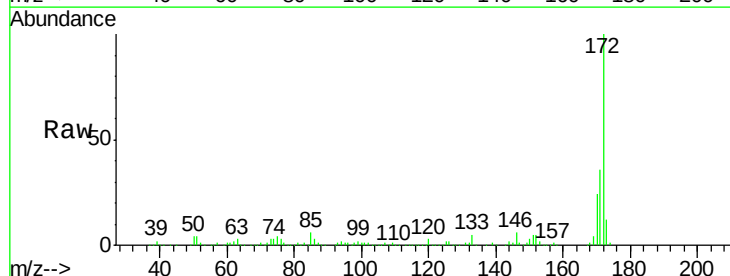
Instrument :
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 ClientSampleId :
 CL-01-080717-E

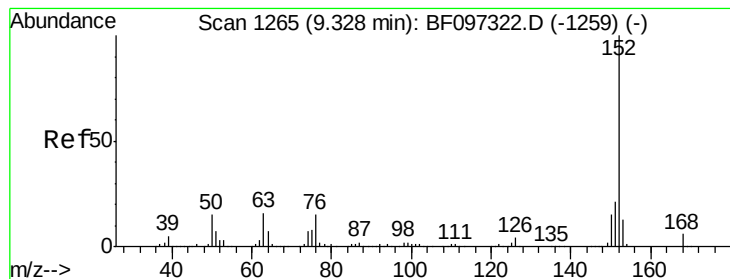
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.6	115.0
141	43.0	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 59.45 ng
 RT: 8.77 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.6	44.4
170	24.3	19.8	29.8





#48

Acenaphthylene

Concen: 2.28 ng

RT: 9.30 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-01-080717-E

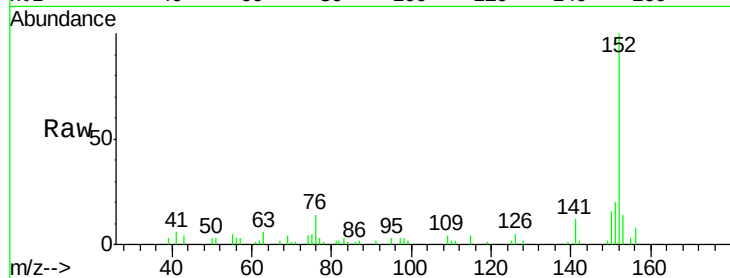
Tot Ion:152 Resp: 25961

Ion Ratio Lower Upper

152 100

151 20.3 16.8 25.2

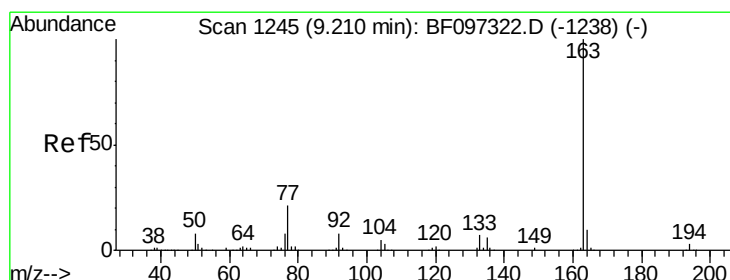
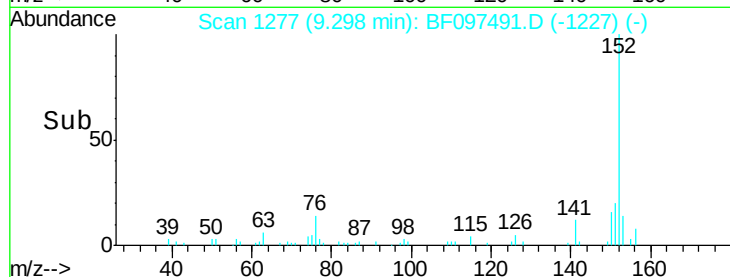
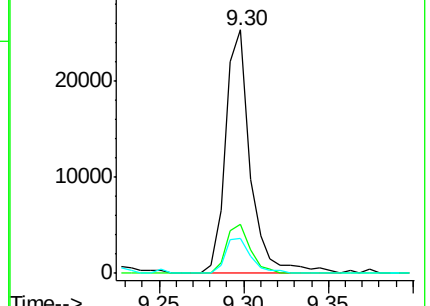
153 14.3 10.8 16.2



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



#49

Dimethylphthalate

Concen: 12.51 ng

RT: 9.17 min Scan# 1255

Delta R.T. -0.02 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

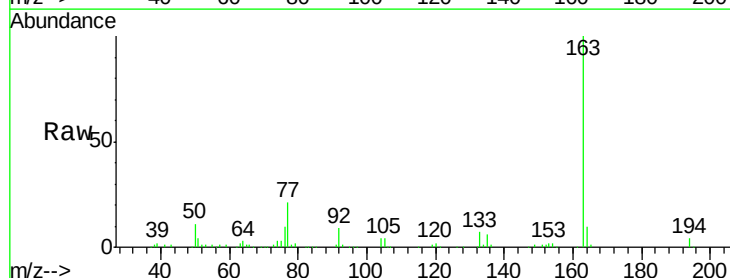
Tgt Ion:163 Resp: 111923

Ion Ratio Lower Upper

163 100

194 3.6 2.6 4.0

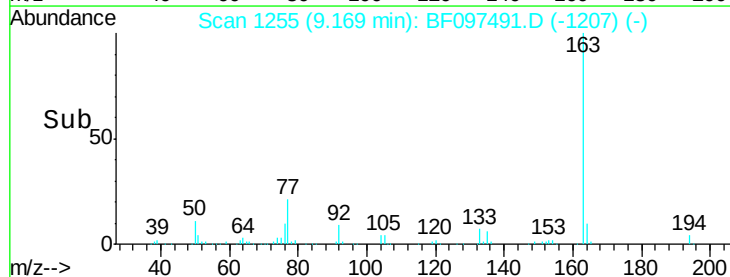
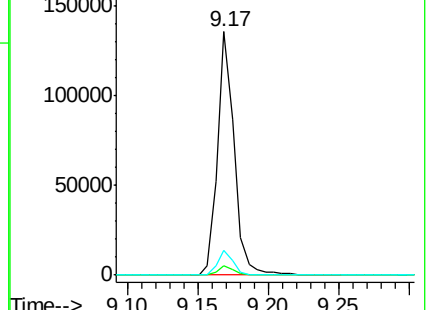
164 10.3 8.4 12.6

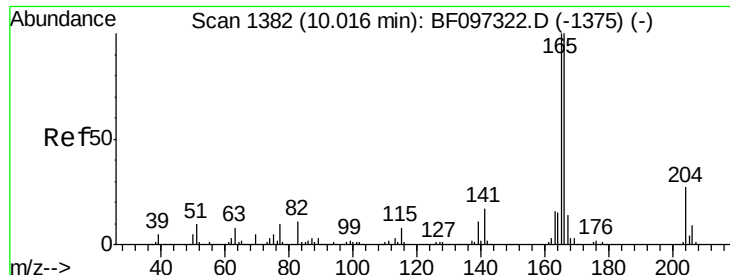


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

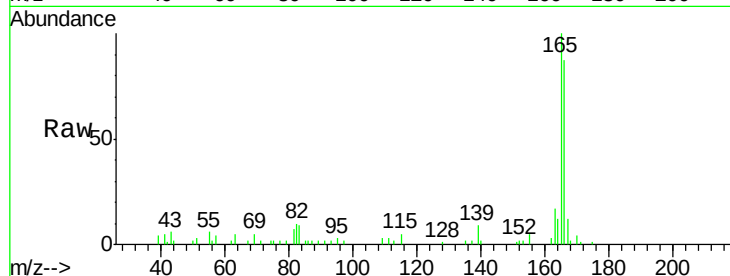




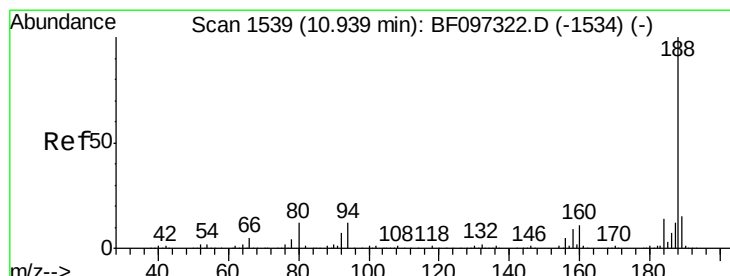
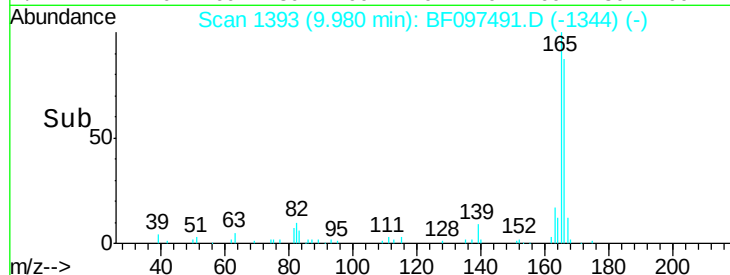
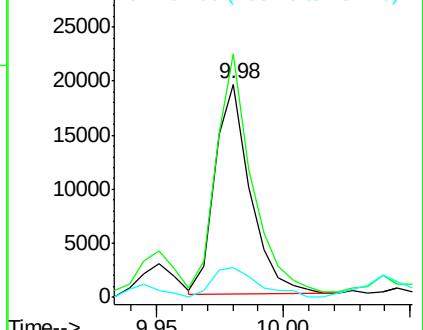
#57
Fluorene
 Concen: 2.82 ng
 RT: 9.98 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-080717-E

Tot Ion:166 Resp: 18917
 Ion Ratio Lower Upper
 166 100
 165 114.4 78.8 118.2
 167 14.0 10.6 16.0

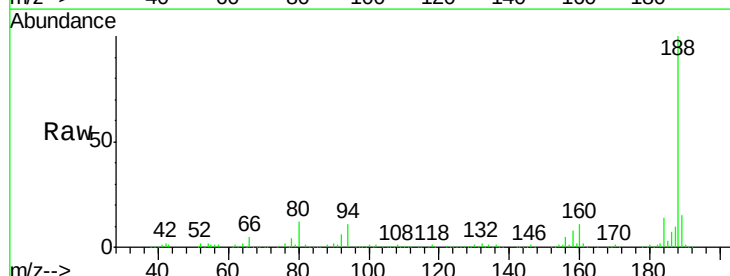


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

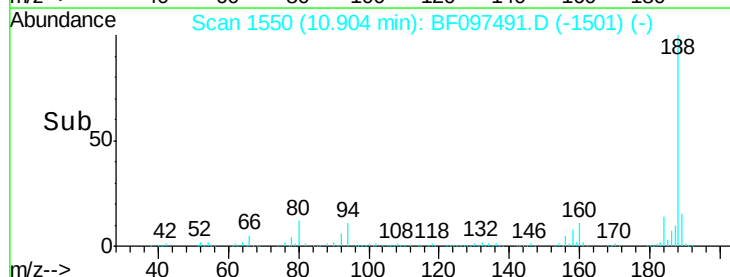
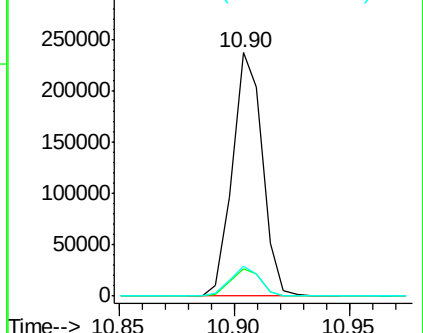


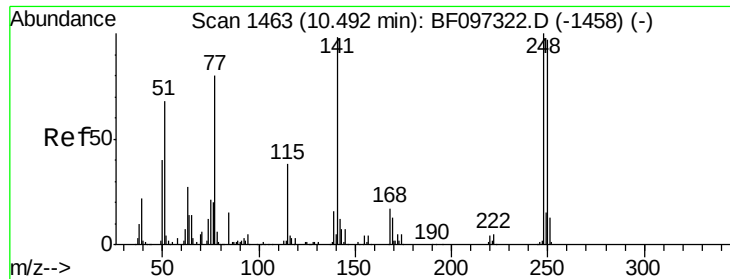
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.90 min Scan# 1550
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

Tgt Ion:188 Resp: 215347
 Ion Ratio Lower Upper
 188 100
 94 11.4 9.4 14.2
 80 12.0 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

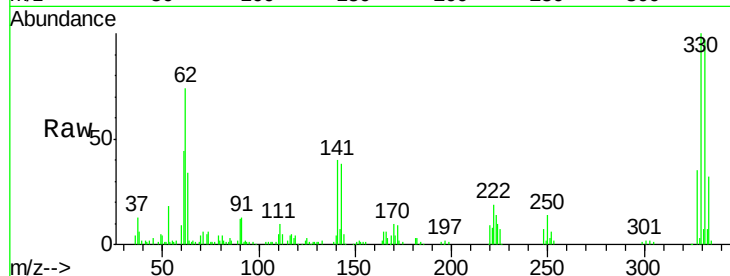




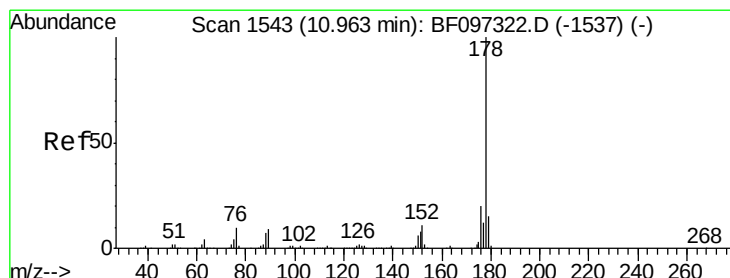
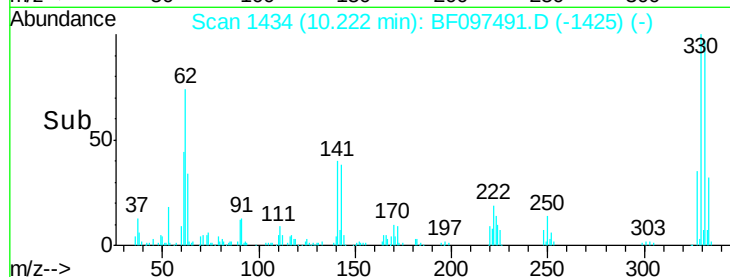
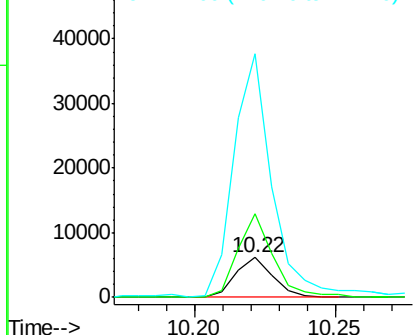
#66
 4-Bromophenyl-phenylether
 Concen: 2.64 ng
 RT: 10.22 min Scan# 1434
 Delta R.T. -0.25 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-080717-E

Tot Ion:248 Resp: 5680
 Ion Ratio Lower Upper
 248 100
 250 208.5 76.8 115.2#
 141 609.3 68.6 103.0#

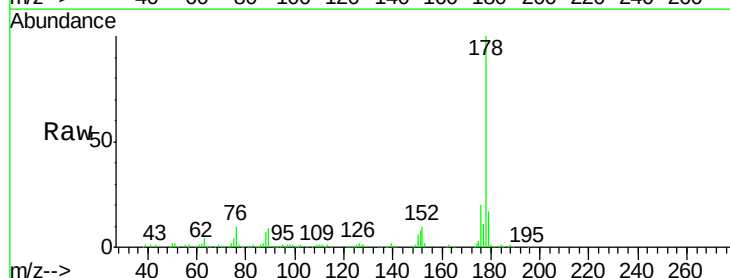


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

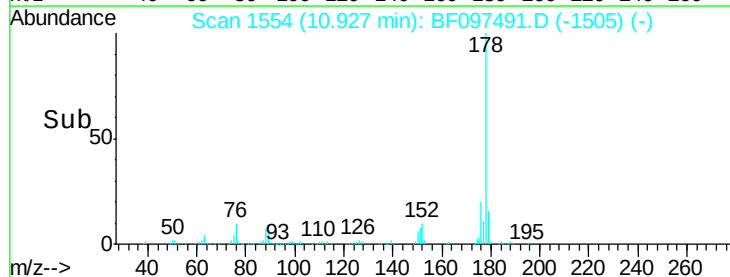
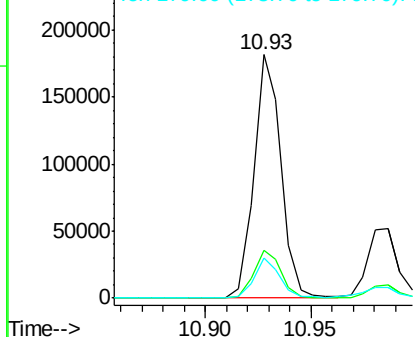


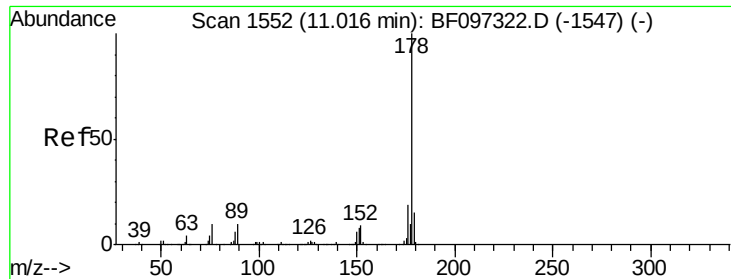
#70
 Phenanthrene
 Concen: 13.97 ng
 RT: 10.93 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

Tgt Ion:178 Resp: 161212
 Ion Ratio Lower Upper
 178 100
 176 19.8 16.2 24.4
 179 16.5 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

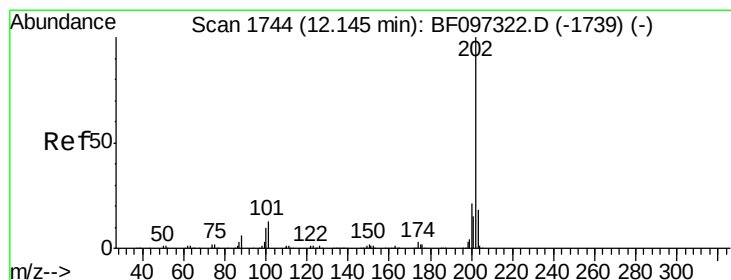
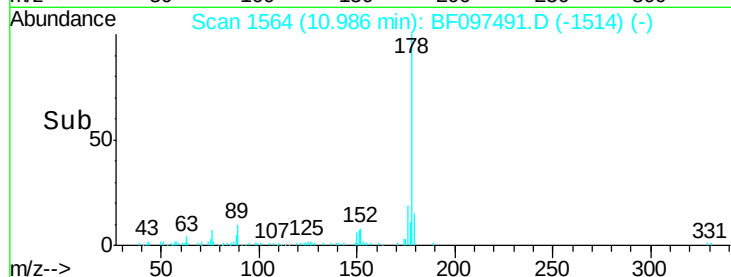
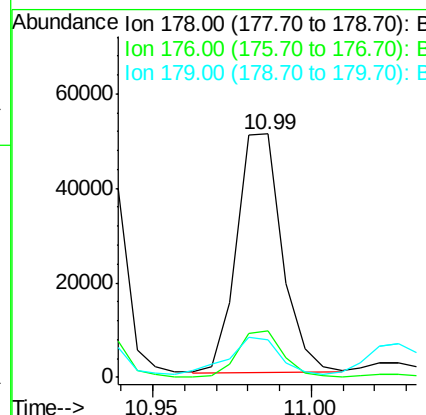
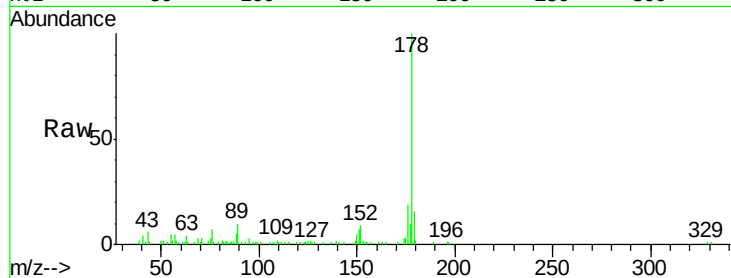




#71
 Anthracene
 Concen: 4.26 ng
 RT: 10.99 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

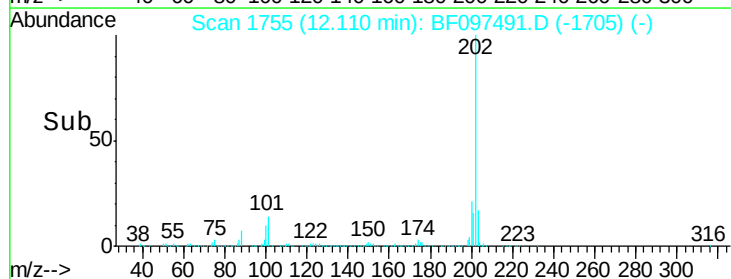
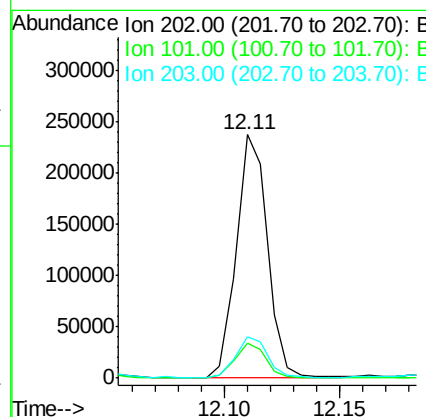
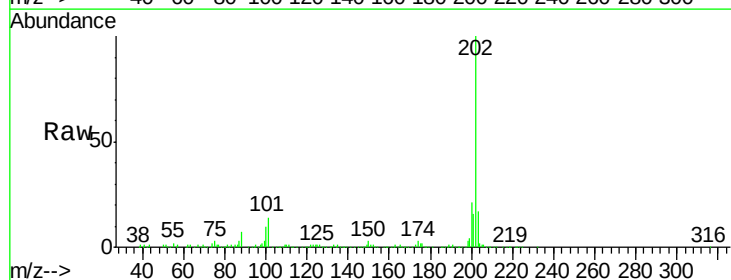
Instrument :
 BNA_F
 ClientSampleId :
 CL-01-080717-E

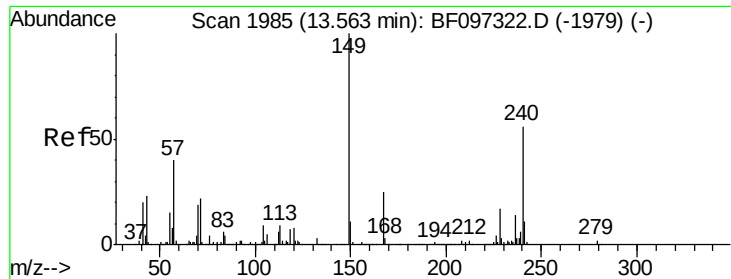
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	15.6	12.7	19.1



#74
 Fluoranthene
 Concen: 19.55 ng
 RT: 12.11 min Scan# 1755
 Delta R.T. -0.01 min
 Lab File: BF097491.D
 Acq: 9 Aug 2017 1:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.4	0.0	33.2
203	17.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.53 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-01-080717-E

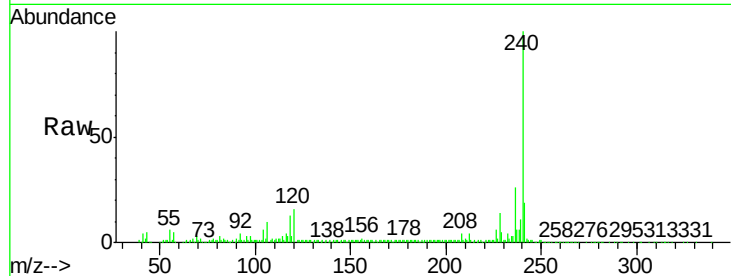
Tot Ion:240 Resp: 174476

Ion Ratio Lower Upper

240 100

120 16.3 5.8 8.8#

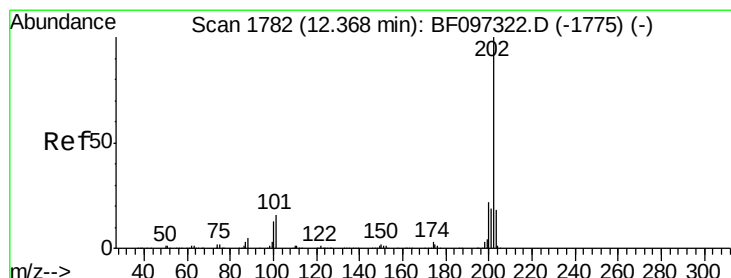
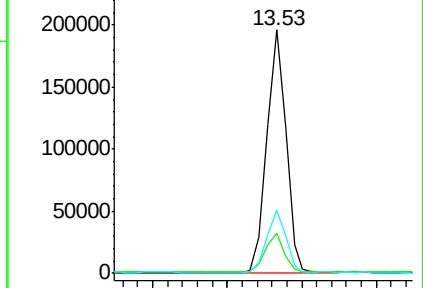
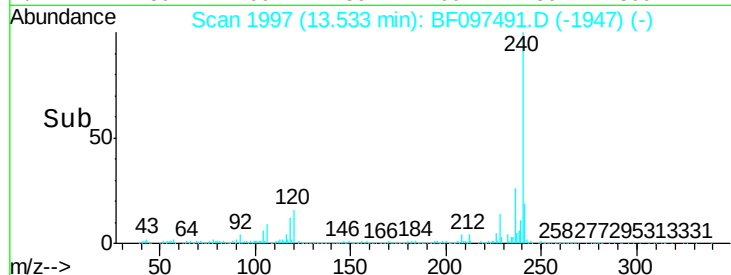
236 25.9 20.5 30.7



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: 17.20 ng

RT: 12.33 min Scan# 1793

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

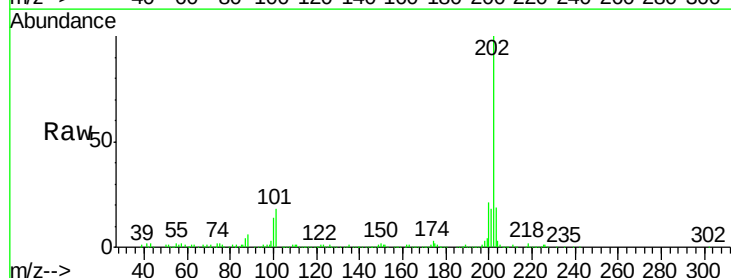
Tgt Ion:202 Resp: 245628

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

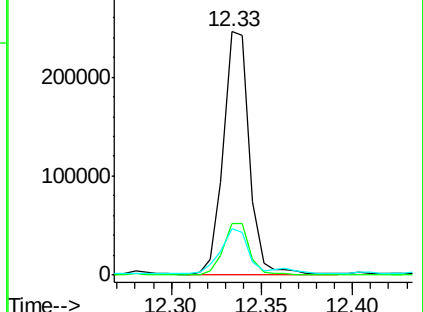
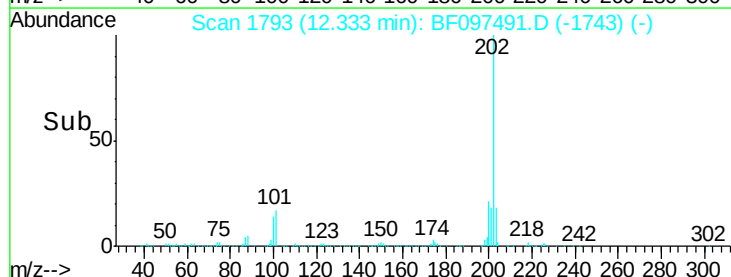
203 19.3 14.4 21.6

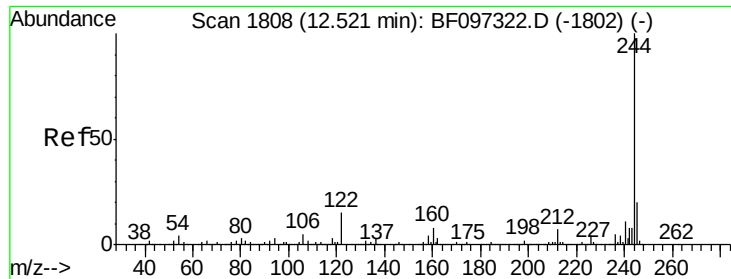


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 40.95 ng

RT: 12.49 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-01-080717-E

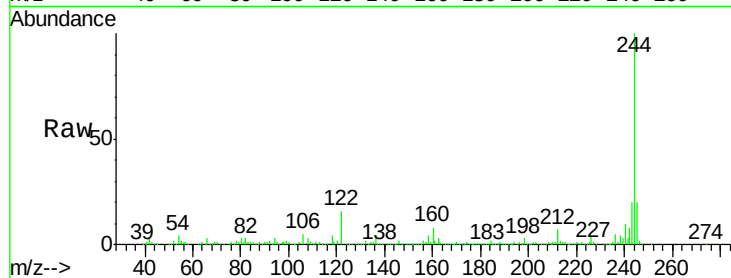
Tot Ion:244 Resp: 350436

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

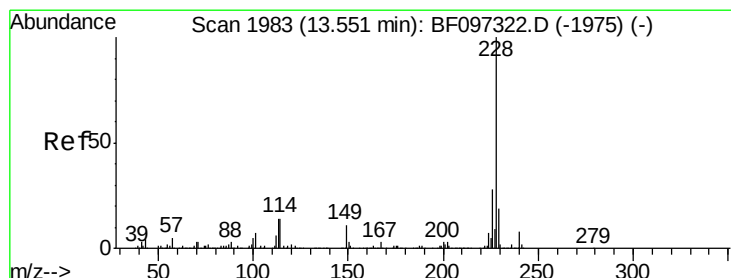
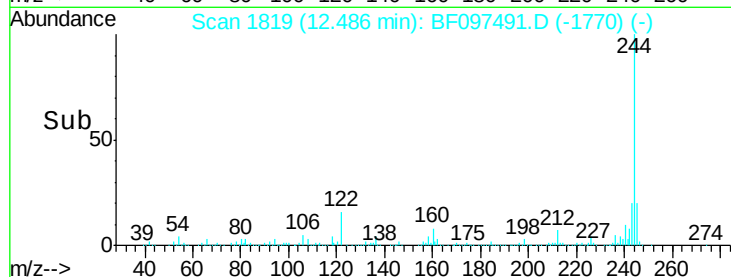
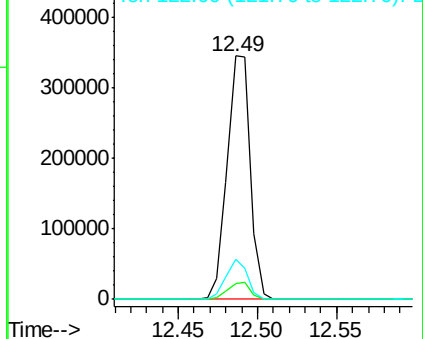
122 16.3 10.3 15.5#



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: 8.15 ng

RT: 13.52 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

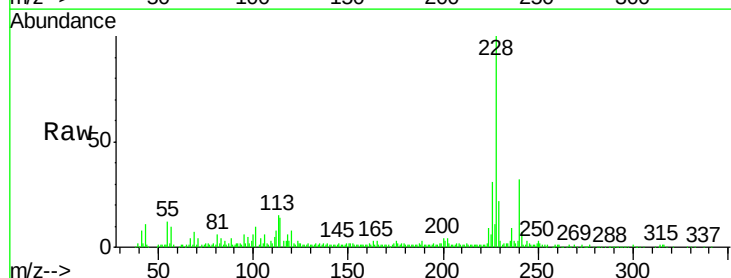
Tgt Ion:228 Resp: 91967

Ion Ratio Lower Upper

228 100

226 30.5 22.6 33.8

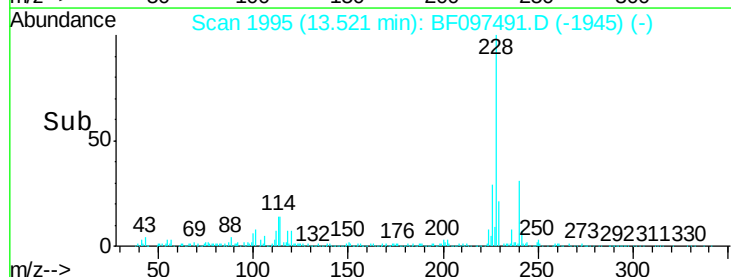
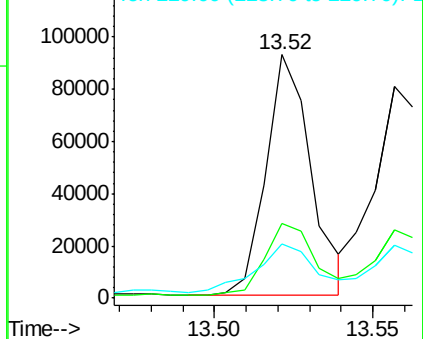
229 22.3 16.3 24.5

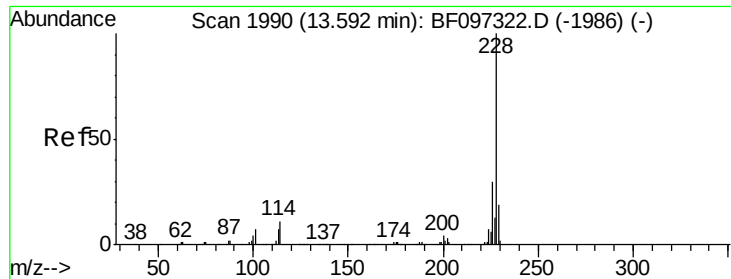


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 8.34 ng

RT: 13.52 min Scan# 1995

Delta R.T. -0.04 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-01-080717-E

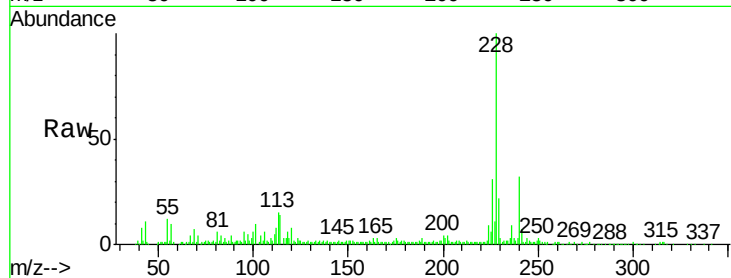
Tot Ion:228 Resp: 91967

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

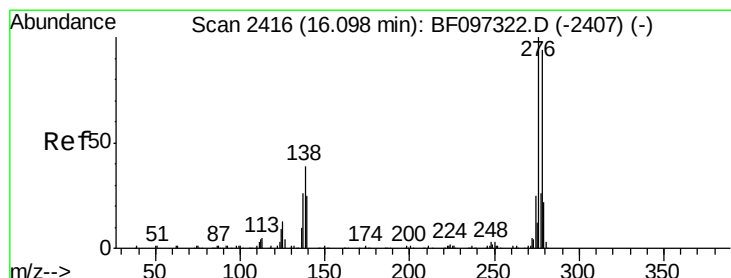
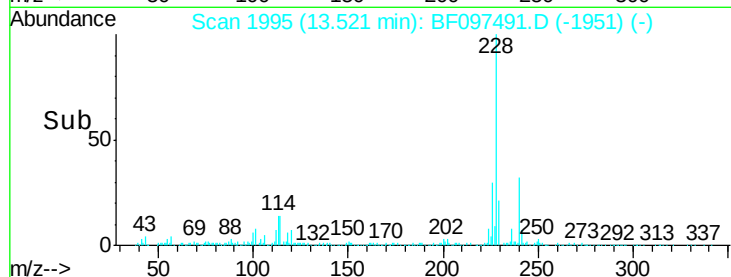
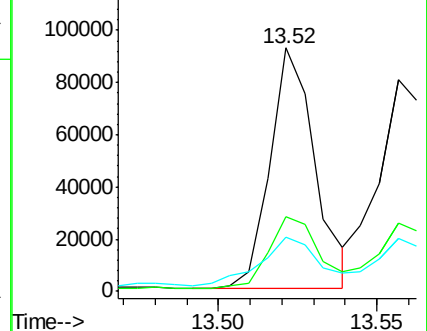
229 22.3 15.8 23.6



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: 2.40 ng

RT: 16.07 min Scan# 2429

Delta R.T. 0.01 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

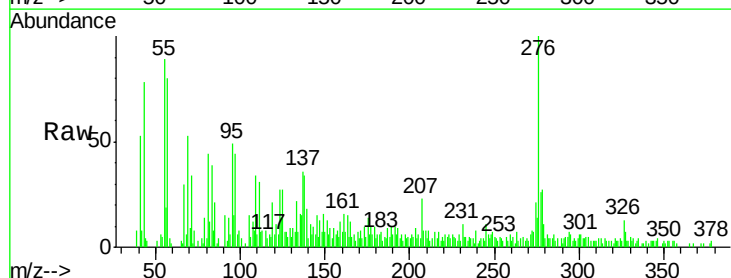
Tgt Ion:276 Resp: 22723

Ion Ratio Lower Upper

276 100

138 32.9 27.8 41.6

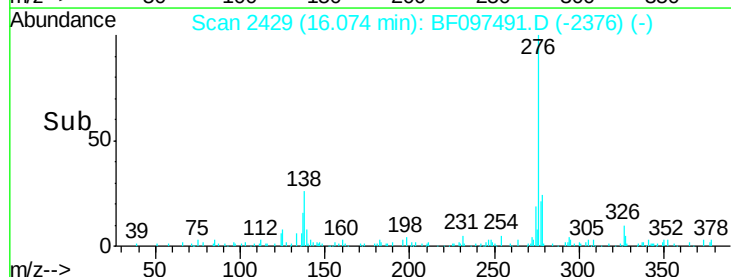
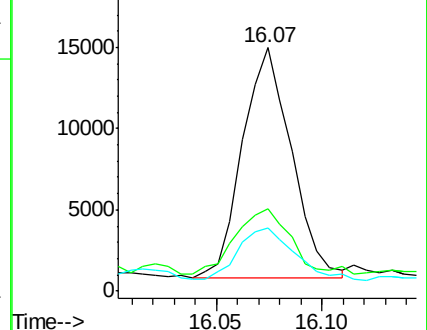
277 27.1 20.2 30.4

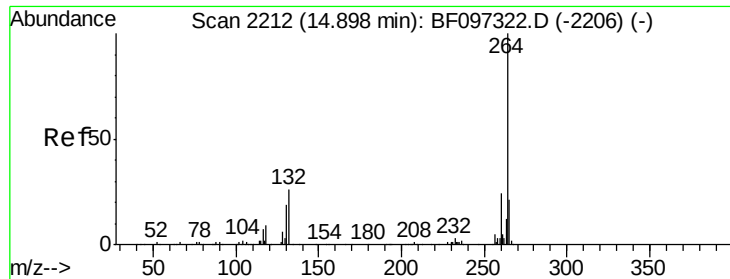


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

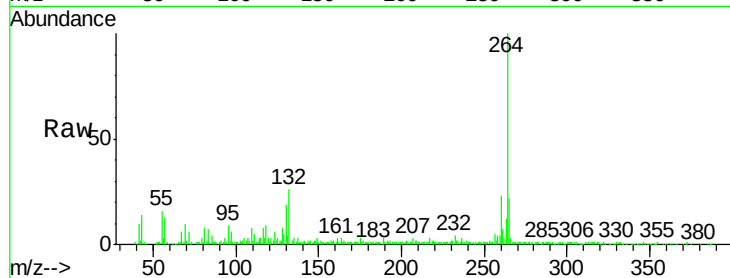




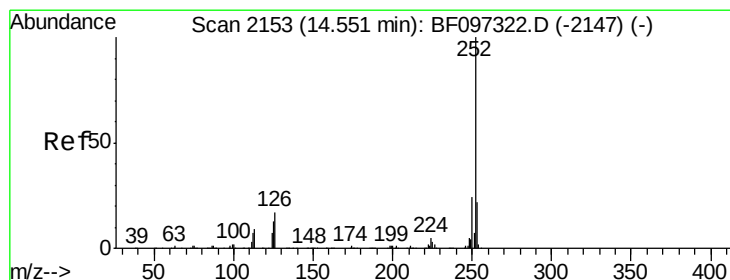
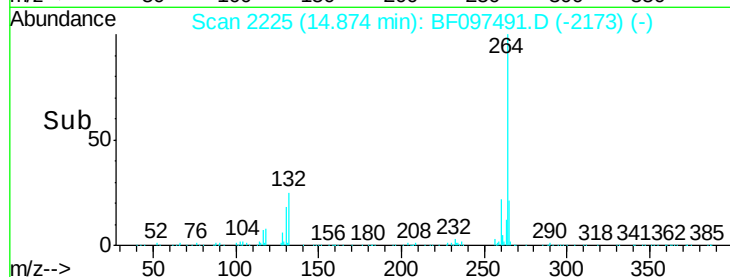
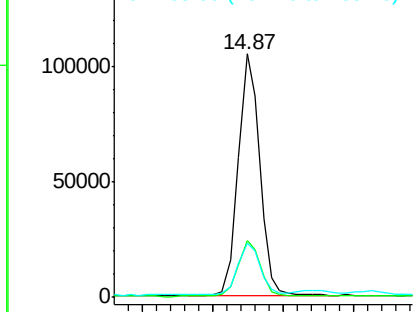
#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.87 min Scan# 2225
Delta R.T. 0.01 min
Lab File: BF097491.D
Acq: 9 Aug 2017 1:51

Instrument :
BNA_F
ClientSampleId :
CL-01-080717-E

Tot Ion:264 Resp: 112770
Ion Ratio Lower Upper
264 100
260 23.2 19.5 29.3
265 22.0 17.2 25.8

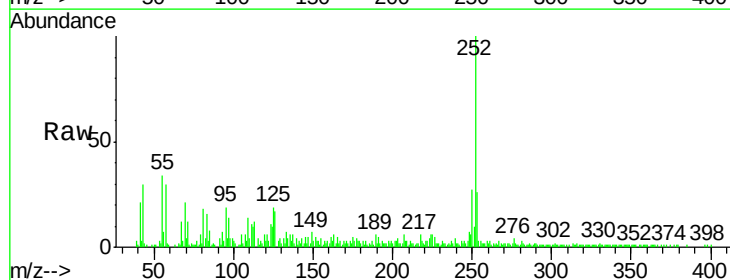


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

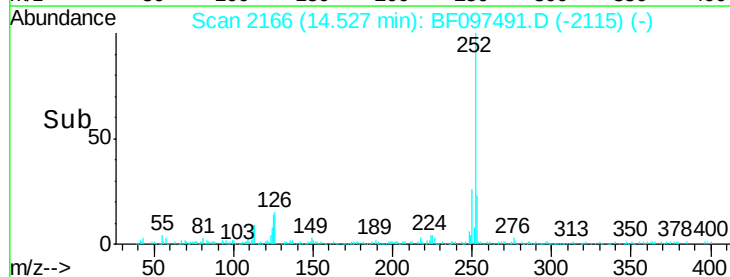
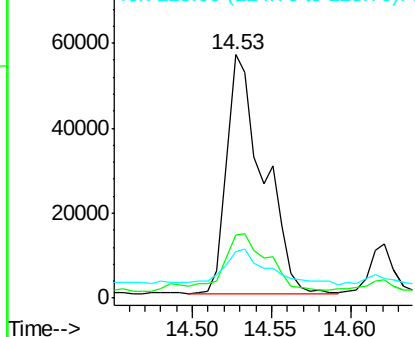


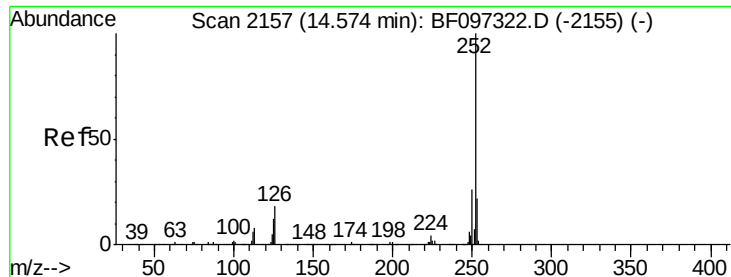
#87
Benzo(b)fluoranthene
Concen: 13.36 ng
RT: 14.53 min Scan# 2166
Delta R.T. 0.00 min
Lab File: BF097491.D
Acq: 9 Aug 2017 1:51

Tgt Ion:252 Resp: 90599
Ion Ratio Lower Upper
252 100
253 25.9 18.1 27.1
125 19.3 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

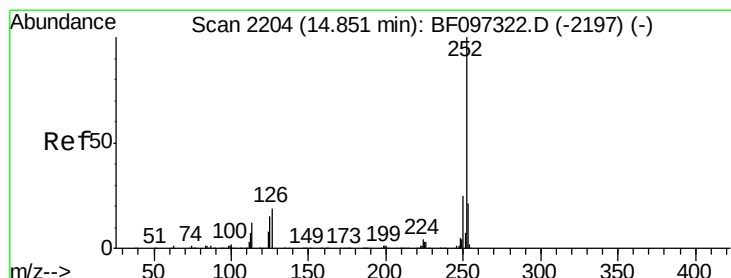
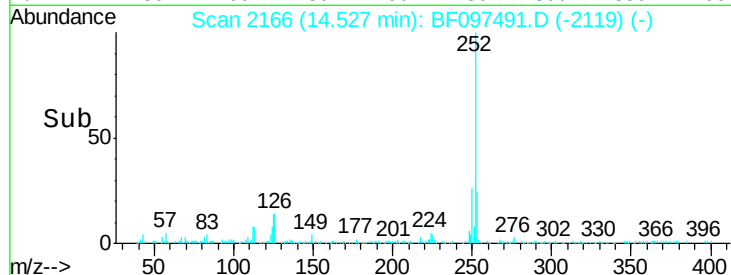
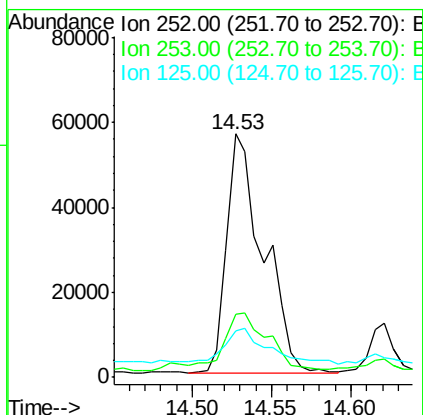
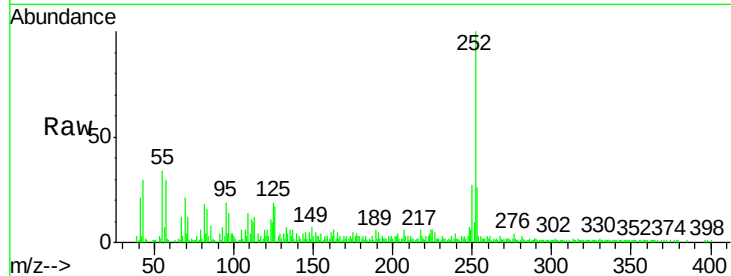




#88
Benzo(k)fluoranthene
Concen: 14.03 ng
RT: 14.53 min Scan# 2166
Delta R.T. -0.02 min
Lab File: BF097491.D
Acq: 9 Aug 2017 1:51

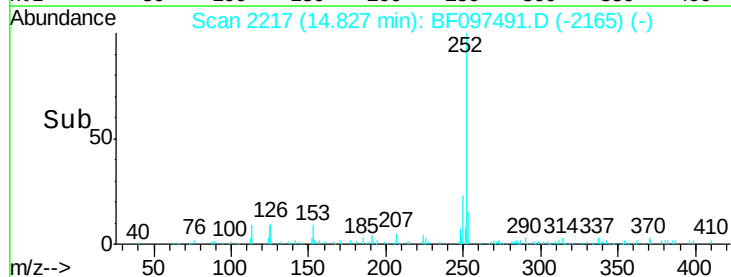
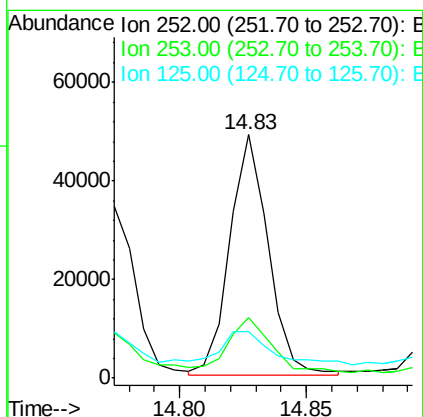
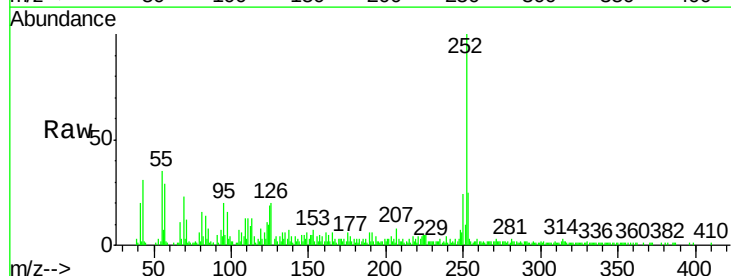
Instrument :
BNA_F
ClientSampleId :
CL-01-080717-E

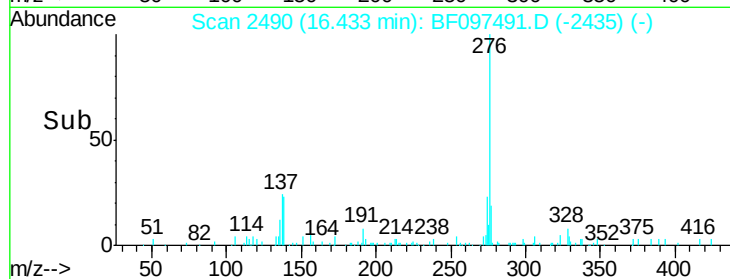
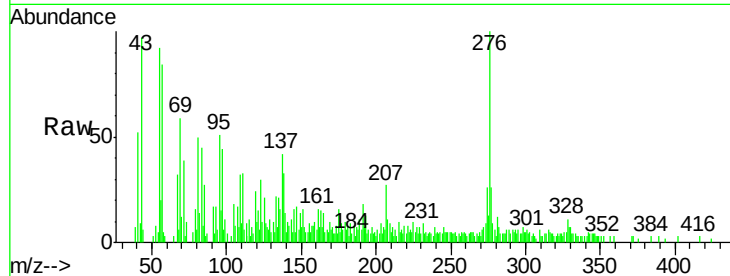
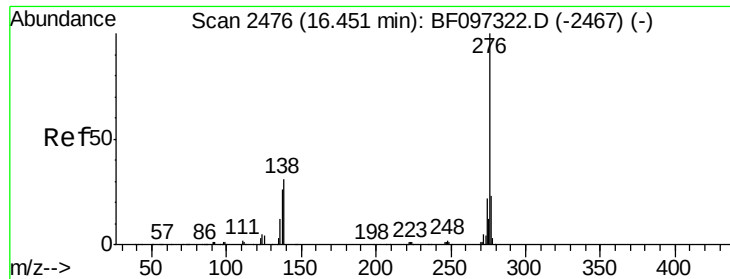
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.9	18.4	27.6
125	19.3	13.1	19.7



#89
Benzo(a)pyrene
Concen: 8.25 ng
RT: 14.83 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF097491.D
Acq: 9 Aug 2017 1:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.5	26.3
125	19.3	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 4.56 ng

RT: 16.43 min Scan# 2490

Delta R.T. 0.02 min

Lab File: BF097491.D

Acq: 9 Aug 2017 1:51

Instrument :

BNA_F

ClientSampleId :

CL-01-080717-E

Tot Ion: 276 Resp: 24315

Ion Ratio Lower Upper

276 100

277 25.5 18.6 28.0

138 33.5 25.4 38.0

