

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042017\
 Data File : BF094556.D
 Acq On : 20 Apr 2017 20:33
 Operator : SJ/MA
 Sample : I2749-03
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 21 01:05:46 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	113876	20.00	ng	0.00
21) Naphthalene-d8	7.25	136	485236	20.00	ng	0.00
38) Acenaphthene-d10	9.39	164	211972	20.00	ng	0.00
63) Phenanthrene-d10	11.21	188	354057	20.00	ng	0.00
75) Chrysene-d12	14.46	240	272481	20.00	ng	0.00
86) Perylene-d12	16.09	264	248283	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.31	112	770267	112.22	ng	0.00
7) Phenol-d6	5.39	99	975391	120.54	ng	0.00
23) Nitrobenzene-d5	6.41	82	590158	75.10	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	202735	122.28	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	1118676	77.65	ng	0.00
78) Terphenyl-d14	13.19	244	832101	81.63	ng	0.00

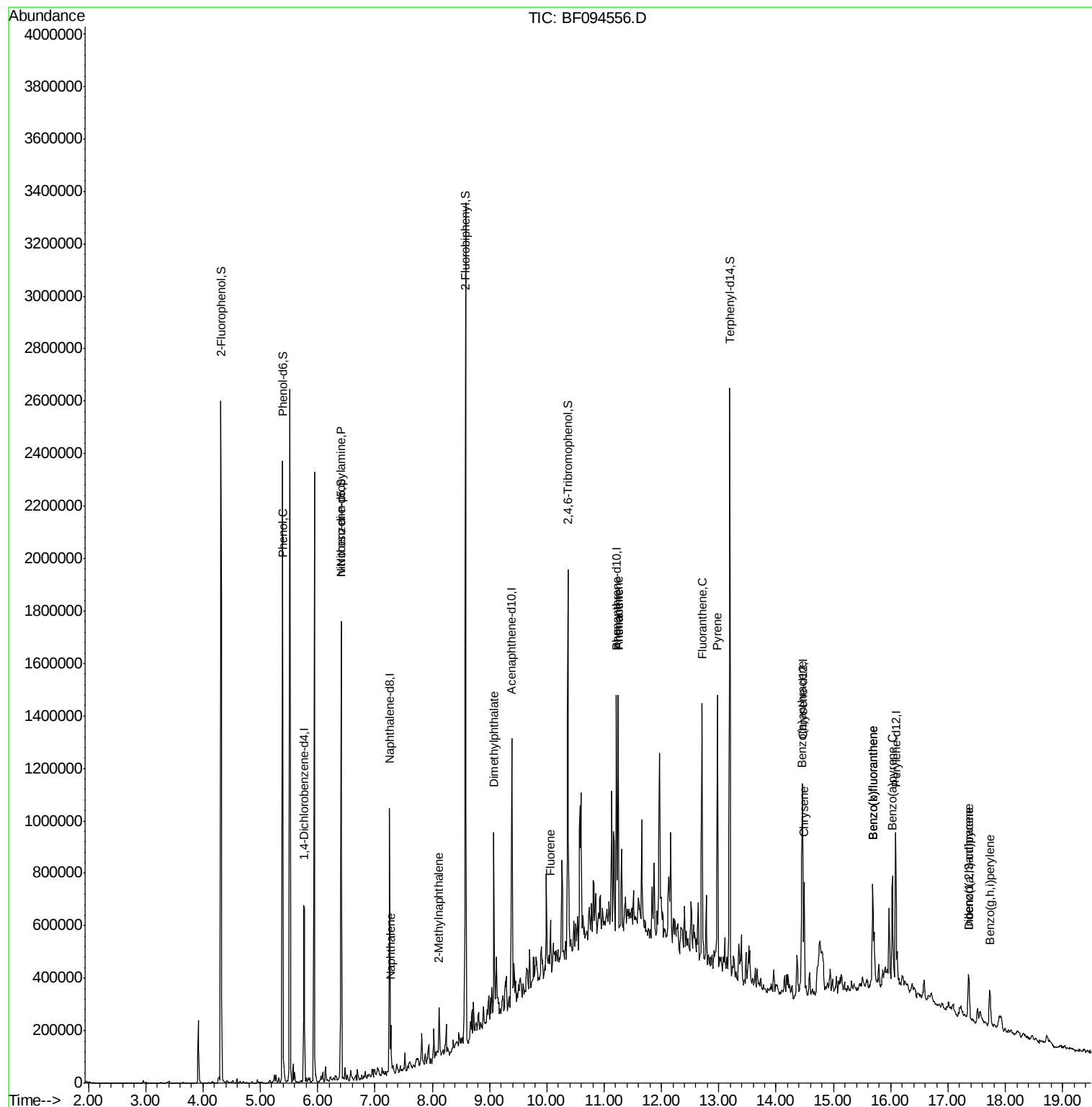
Target Compounds				Qvalue		
10) Phenol	5.40	94	25549	2.57	ng	93
19) n-Nitroso-di-n-propylamine	6.41	70	78818	14.70	ng	# 78
31) Naphthalene	7.28	128	66001	2.83	ng	98
37) 2-Methylnaphthalene	8.12	142	50190	3.14	ng	98
49) Dimethylphthalate	9.08	163	326610	20.68	ng	98
57) Fluorene	10.07	166	36601	2.52	ng	97
70) Phenanthrene	11.24	178	352956	17.70	ng	98
71) Anthracene	11.24	178	352956	17.11	ng	99
74) Fluoranthene	12.71	202	458296	22.18	ng	99
77) Pyrene	12.98	202	478928	25.16	ng	98
80) Benzo(a)anthracene	14.45	228	192734	12.17	ng	99
82) Chrysene	14.49	228	190918	13.19	ng	95
85) Indeno(1,2,3-cd)pyrene	17.36	276	99629	7.23	ng	95
87) Benzo(b)fluoranthene	15.68	252	287175	18.91	ng	# 92
88) Benzo(k)fluoranthene	15.68	252	287175	19.98	ng	96
89) Benzo(a)pyrene	16.03	252	167541	11.86	ng	98
90) Dibenzo(a,h)anthracene	17.37	278	27914	2.38	ng	# 84
91) Benzo(g,h,i)perylene	17.73	276	98946	8.28	ng	97

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

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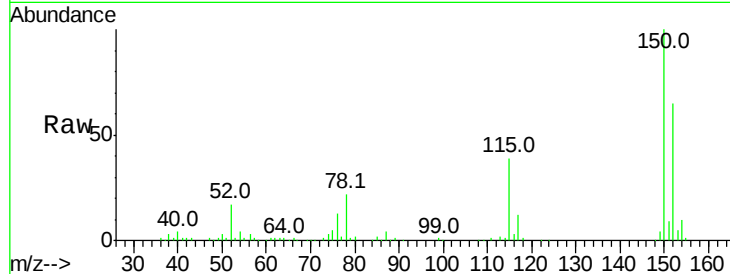


#1

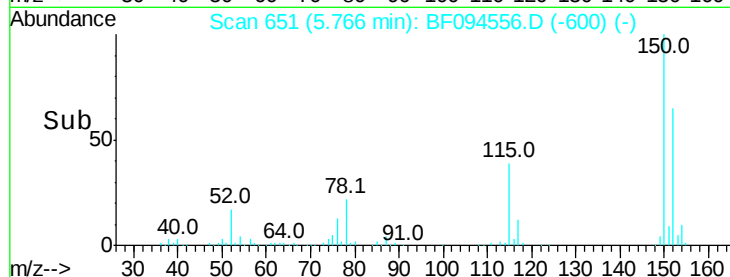
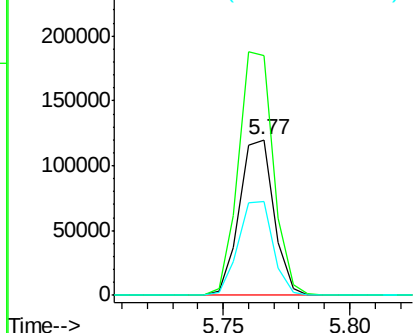
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 651
Delta R.T. 0.00 min
Lab File: BF094556.D
Acq: 20 Apr 2017 20:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 113876
Ion Ratio Lower Upper
152 100
150 153.7 126.2 189.2
115 60.0 52.2 78.2



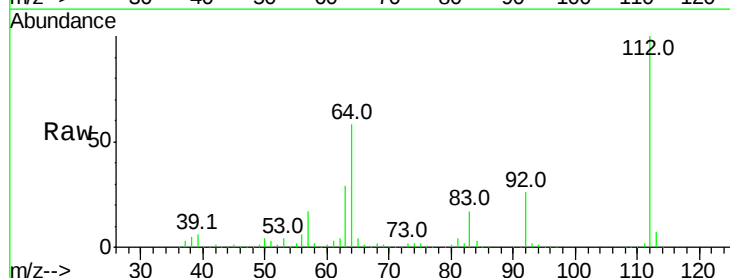
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



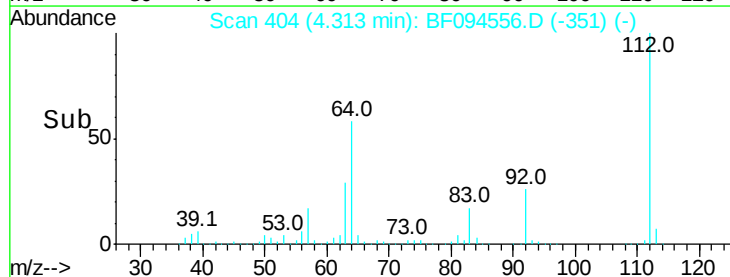
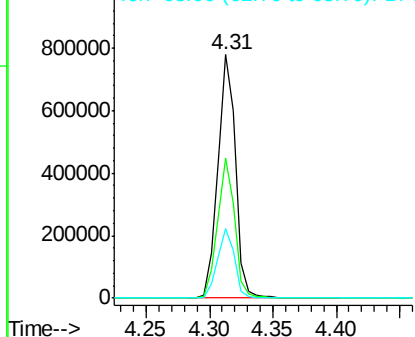
#5

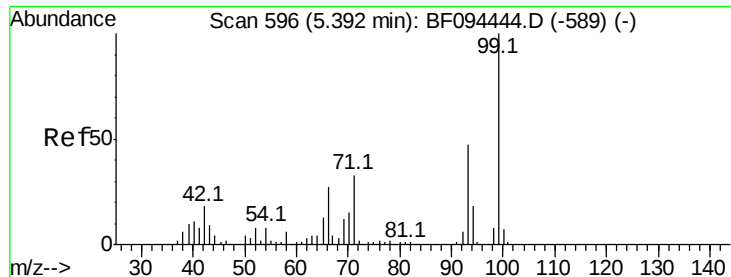
2-Fluorophenol
Concen: 112.22 ng
RT: 4.31 min Scan# 404
Delta R.T. 0.01 min
Lab File: BF094556.D
Acq: 20 Apr 2017 20:33

Tgt Ion:112 Resp: 770267
Ion Ratio Lower Upper
112 100
64 57.7 46.0 69.0
63 28.8 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: 120.54 ng

RT: 5.39 min Scan# 587

Delta R.T. -0.00 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

Instrument :

BNA_F

ClientSampled :

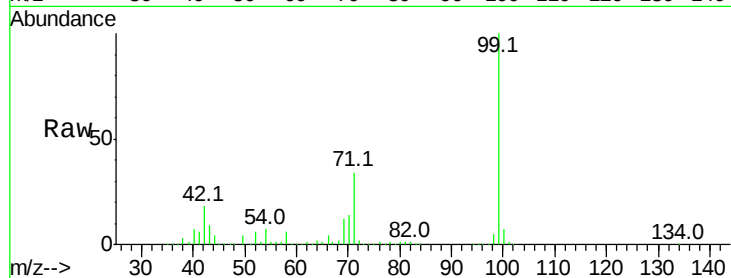
Tot Ion: 99 Resp: 975391

Ion Ratio Lower Upper

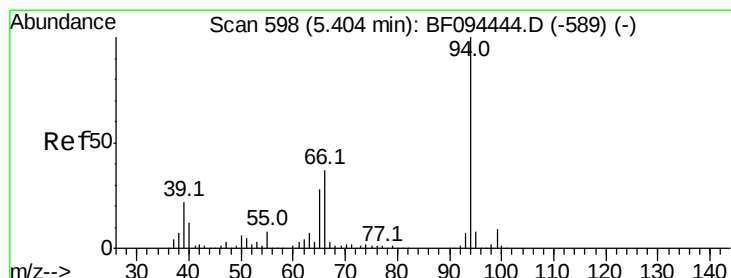
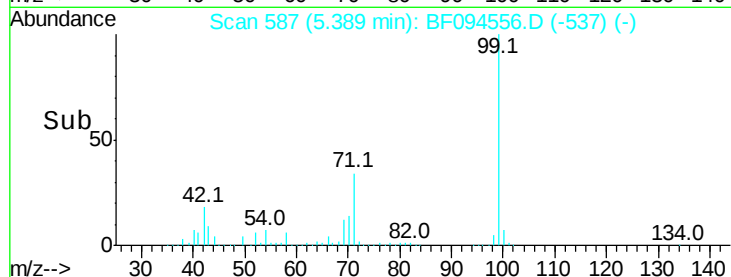
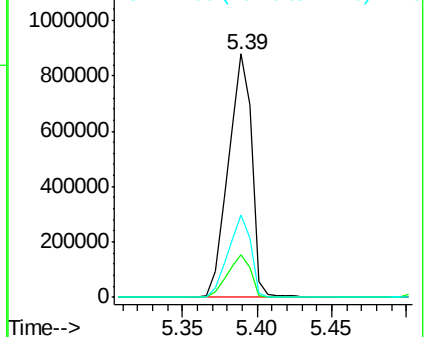
99 100

42 17.7 13.5 20.3

71 33.8 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



#10

Phenol

Concen: 2.57 ng

RT: 5.40 min Scan# 589

Delta R.T. -0.00 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

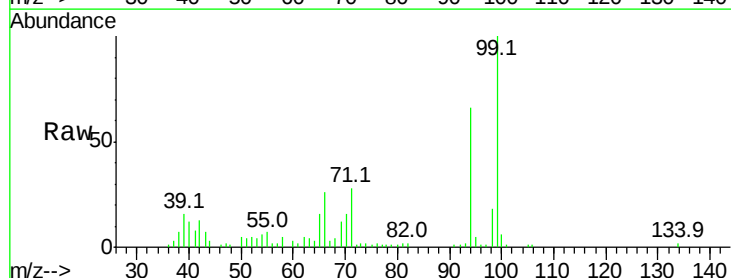
Tgt Ion: 94 Resp: 25549

Ion Ratio Lower Upper

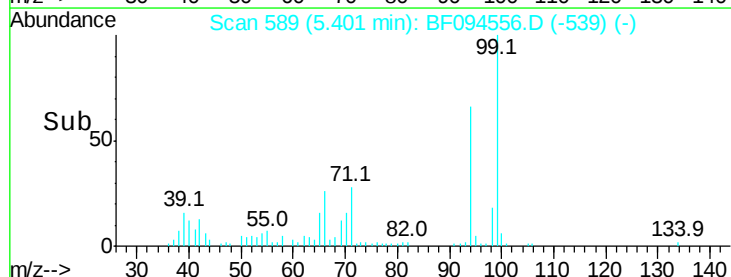
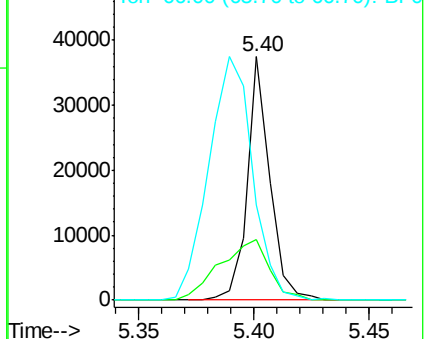
94 100

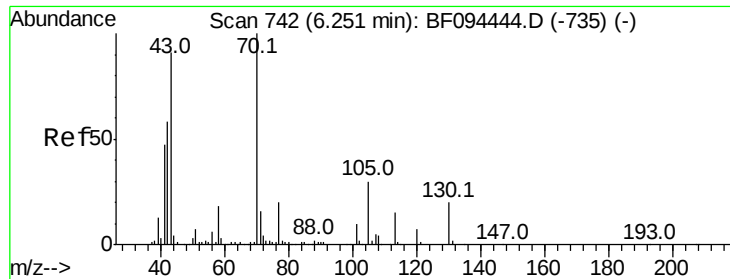
65 24.9 9.9 49.9

66 39.2 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0

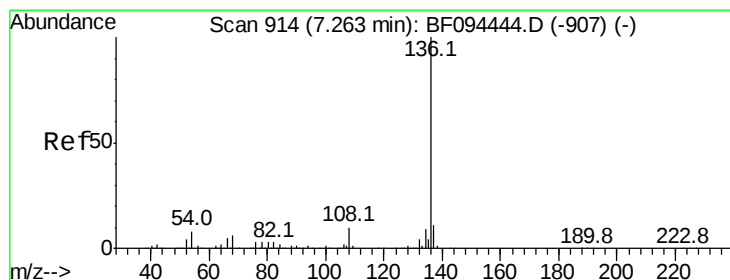
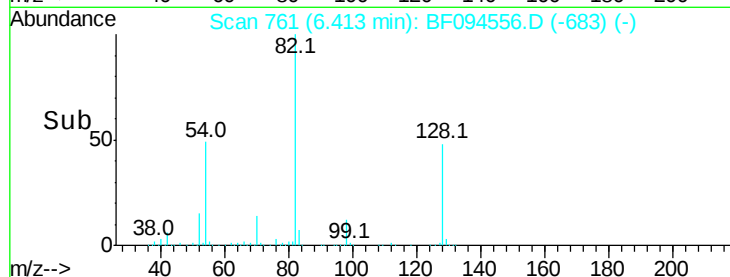
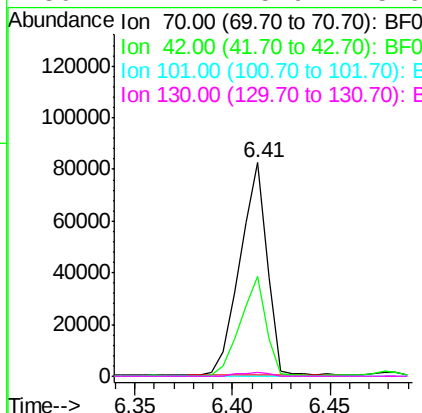
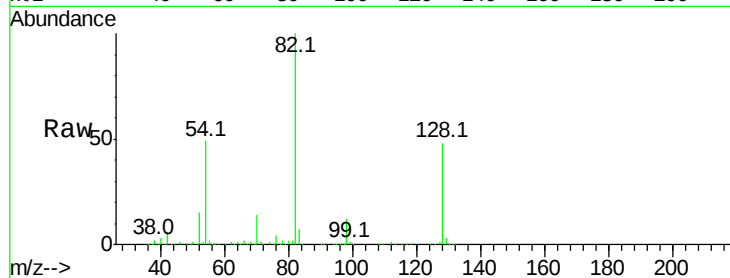




#19
n-Nitroso-di-n-propylamine
Concen: 14.70 ng
RT: 6.41 min Scan# 761
Delta R.T. 0.16 min
Lab File: BF094556.D
Acq: 20 Apr 2017 20:33

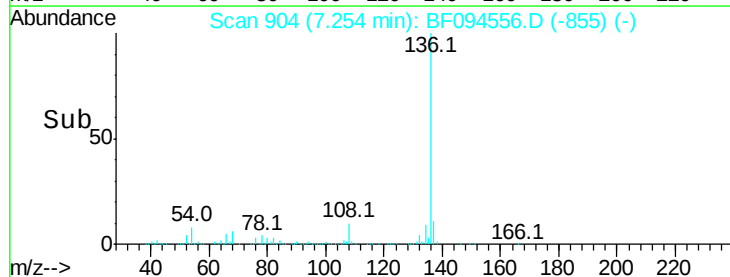
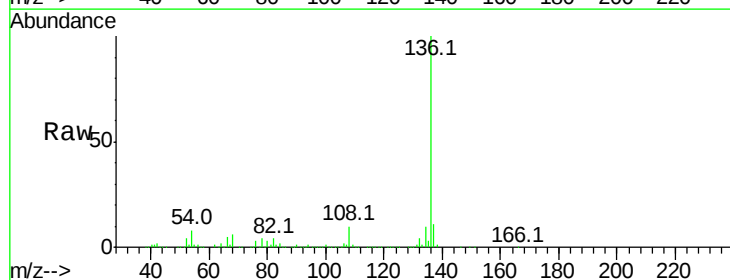
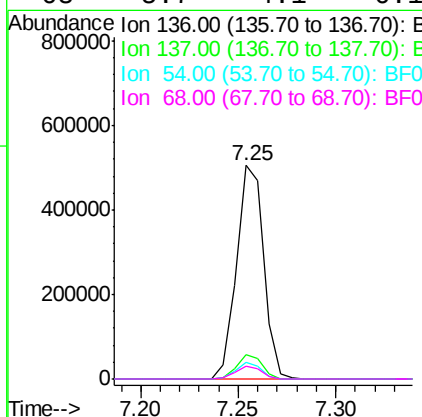
Instrument :
BNA_F
ClientSampleId :

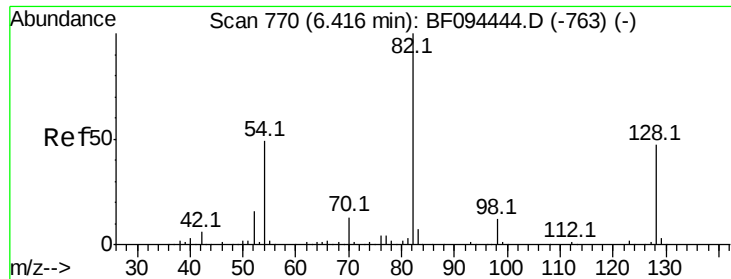
Tot Ion: 70 Resp: 78818
Ion Ratio Lower Upper
70 100
42 46.8 47.2 70.8#
101 0.0 7.2 10.8#
130 2.1 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.25 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF094556.D
Acq: 20 Apr 2017 20:33

Tgt Ion:136 Resp: 485236
Ion Ratio Lower Upper
136 100
137 11.2 8.5 12.7
54 7.9 4.9 7.3#
68 5.7 4.1 6.1

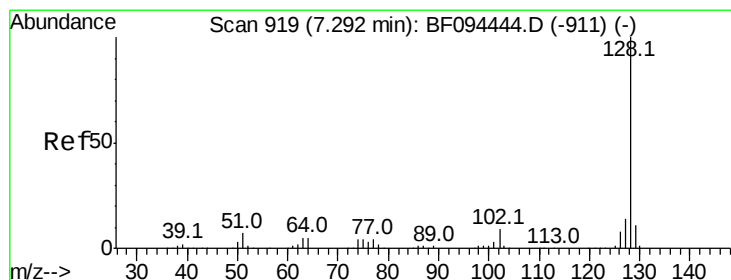
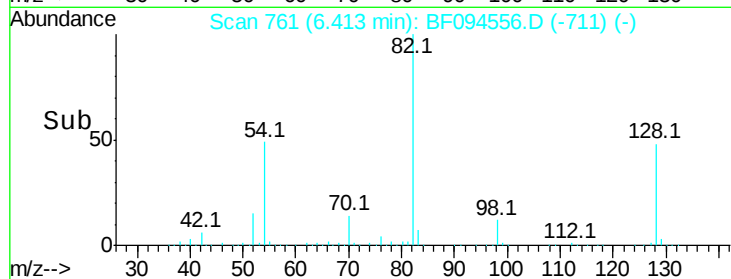
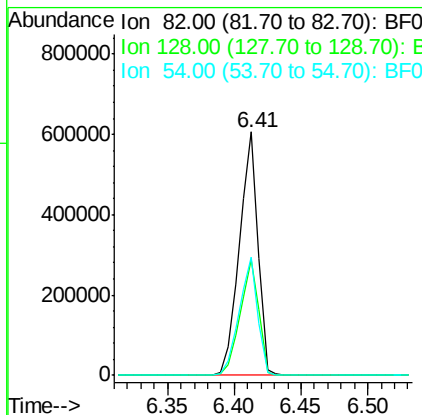
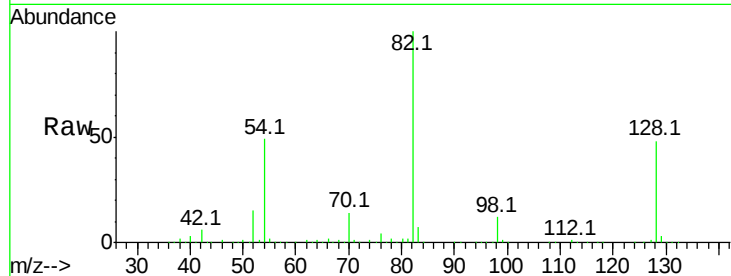




#23
 Nitrobenzene-d5
 Concen: 75.10 ng
 RT: 6.41 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: BF094556.D
 Acq: 20 Apr 2017 20:33

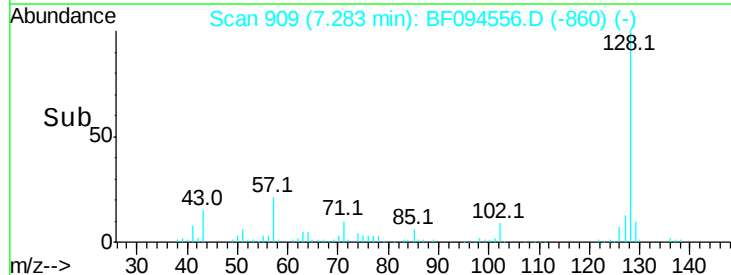
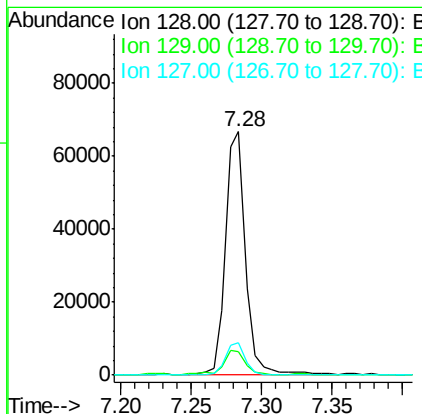
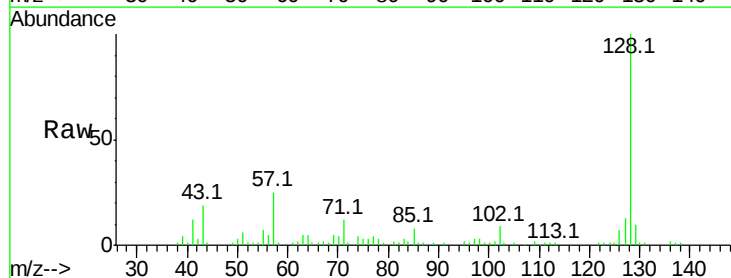
Instrument :
 BNA_F
 ClientSampleId :

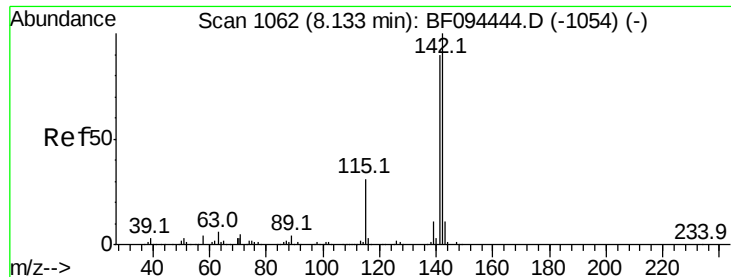
Tot Ion: 82 Resp: 590158
 Ion Ratio Lower Upper
 82 100
 128 47.5 34.0 51.0
 54 48.7 42.2 63.2



#31
 Naphthalene
 Concen: 2.83 ng
 RT: 7.28 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: BF094556.D
 Acq: 20 Apr 2017 20:33

Tgt Ion:128 Resp: 66001
 Ion Ratio Lower Upper
 128 100
 129 9.8 9.0 13.6
 127 13.1 10.8 16.2

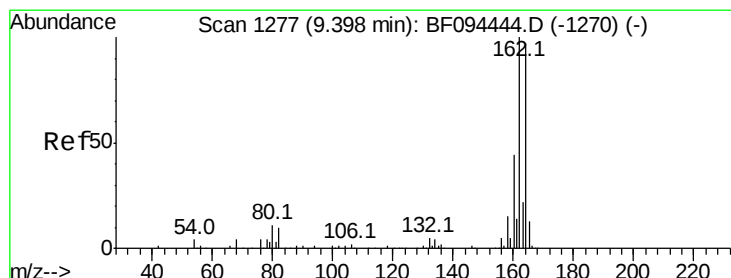
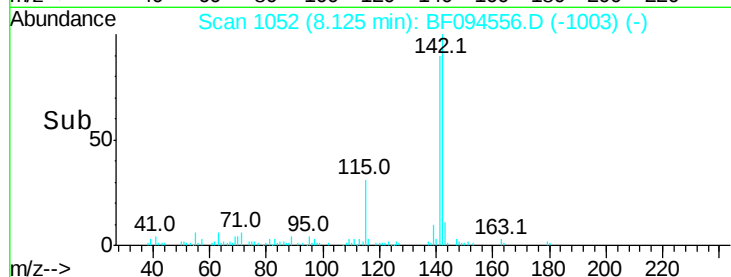
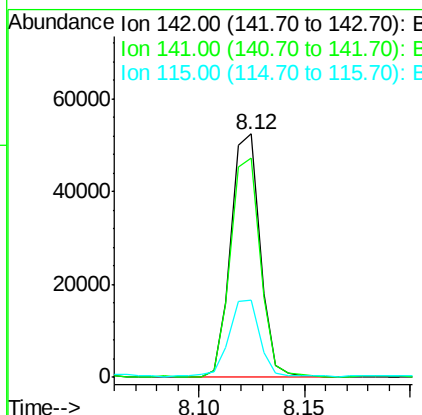
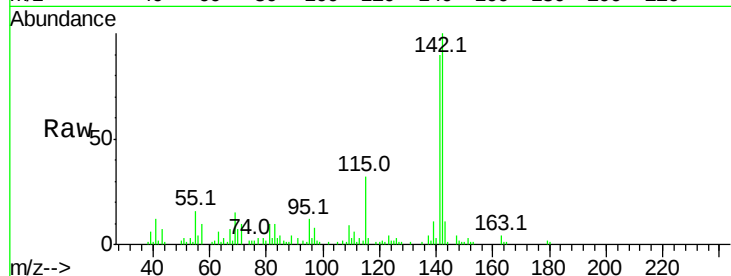




#37
 2-Methylnaphthalene
 Concen: 3.14 ng
 RT: 8.12 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: BF094556.D
 Acq: 20 Apr 2017 20:33

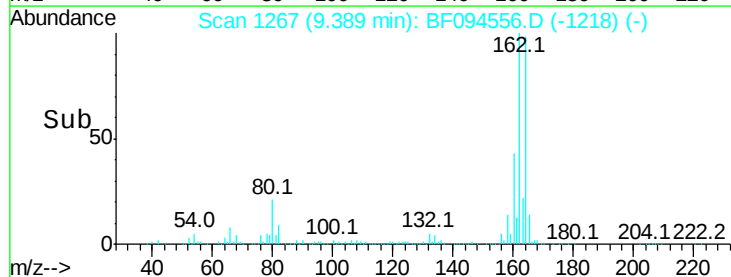
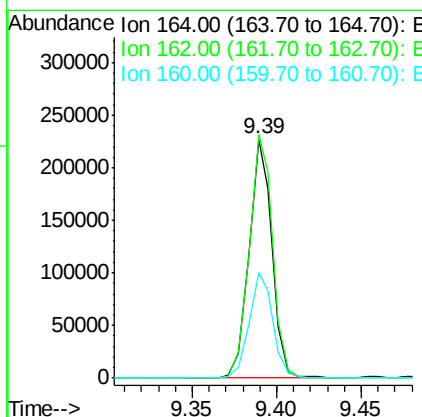
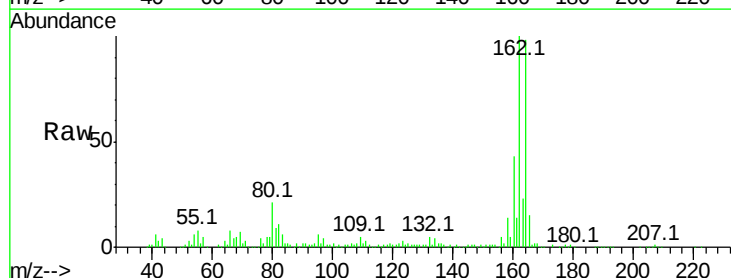
Instrument :
 BNA_F
 ClientSampleId :

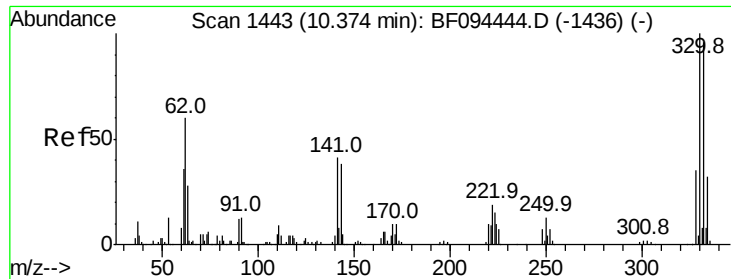
Tot Ion:142 Resp: 50190
 Ion Ratio Lower Upper
 142 100
 141 90.0 71.3 106.9
 115 31.5 27.1 40.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.39 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: BF094556.D
 Acq: 20 Apr 2017 20:33

Tgt Ion:164 Resp: 211972
 Ion Ratio Lower Upper
 164 100
 162 102.1 82.6 123.8
 160 44.3 36.2 54.2

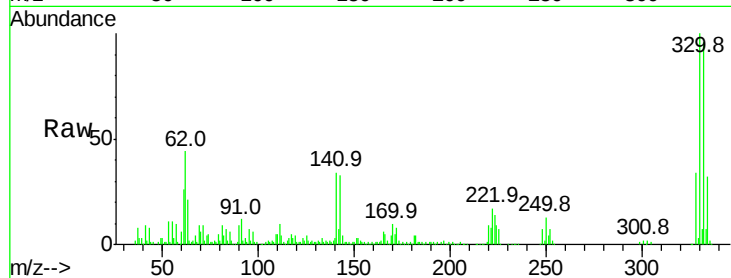




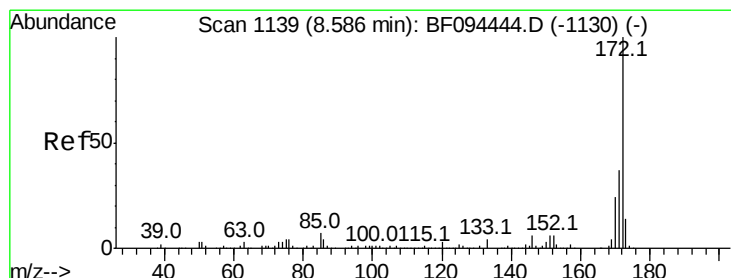
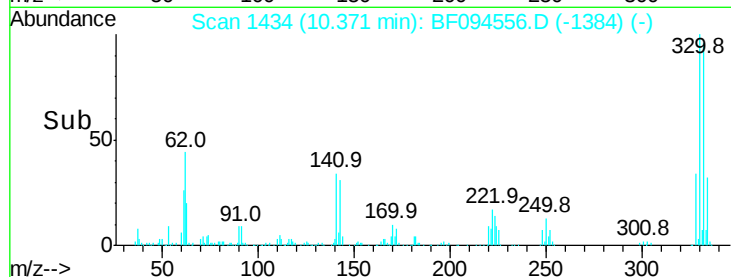
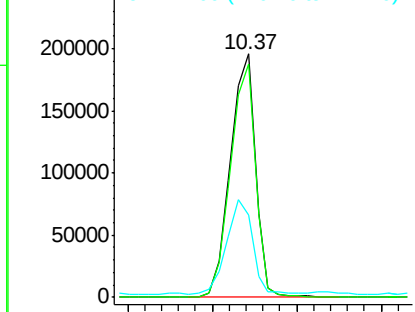
#41
 2,4,6-Tribromophenol
 Concen: 122.28 ng
 RT: 10.37 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: BF094556.D
 Acq: 20 Apr 2017 20:33

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.6	115.0
141	41.4	31.4	47.2

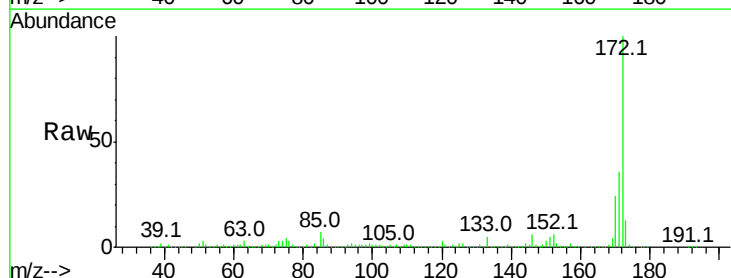


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

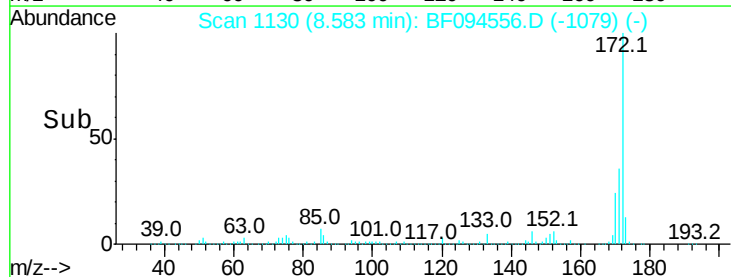
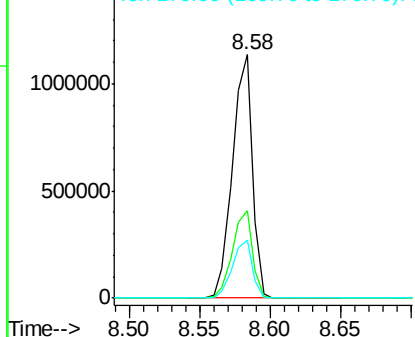


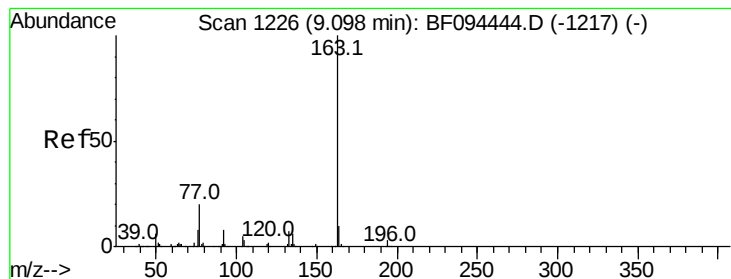
#44
 2-Fluorobiphenyl
 Concen: 77.65 ng
 RT: 8.58 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: BF094556.D
 Acq: 20 Apr 2017 20:33

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.6	44.4
170	23.9	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





#49

Dimethylphthalate

Concen: 20.68 ng

RT: 9.08 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

Instrument :

BNA_F

ClientSampleId :

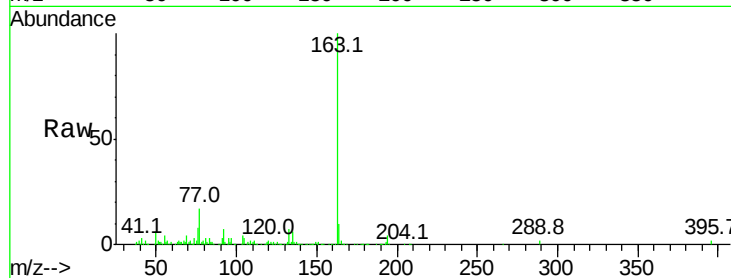
Tot Ion:163 Resp: 326610

Ion Ratio Lower Upper

163 100

194 3.8 2.6 4.0

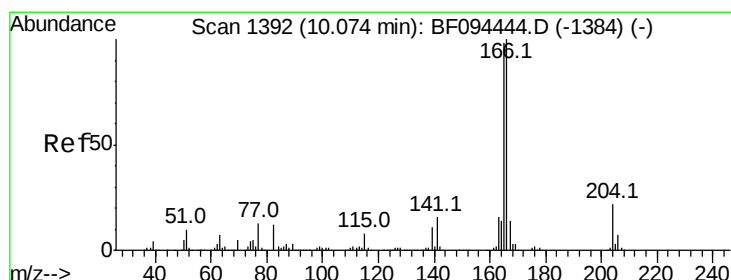
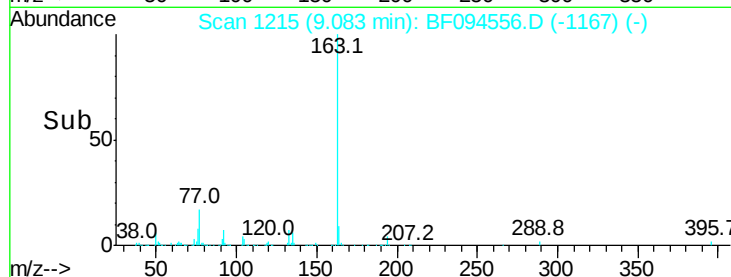
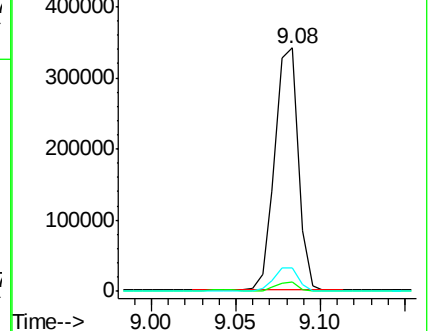
164 9.6 8.4 12.6



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: 2.52 ng

RT: 10.07 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

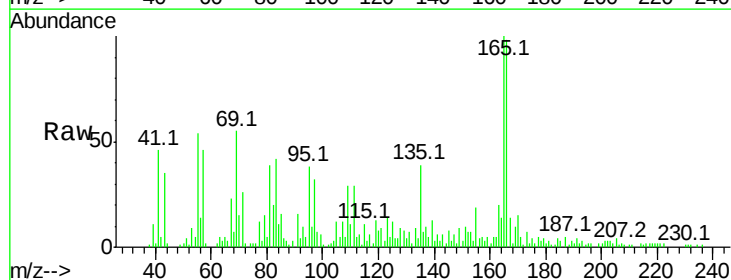
Tgt Ion:166 Resp: 36601

Ion Ratio Lower Upper

166 100

165 101.8 78.8 118.2

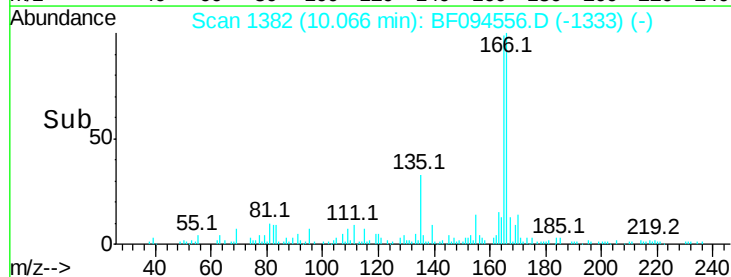
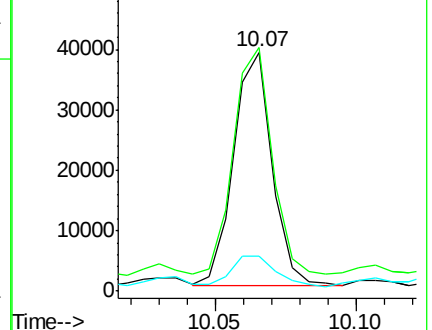
167 14.5 10.6 16.0

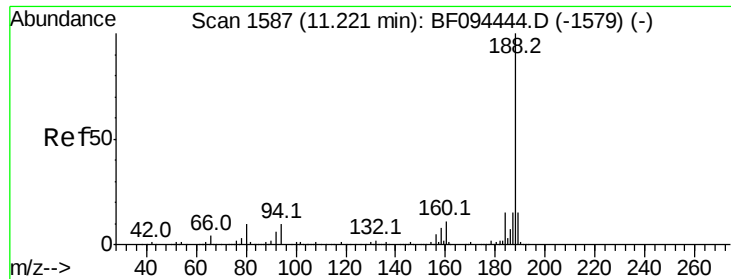


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

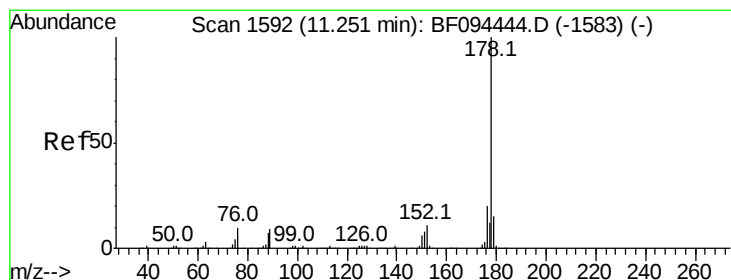
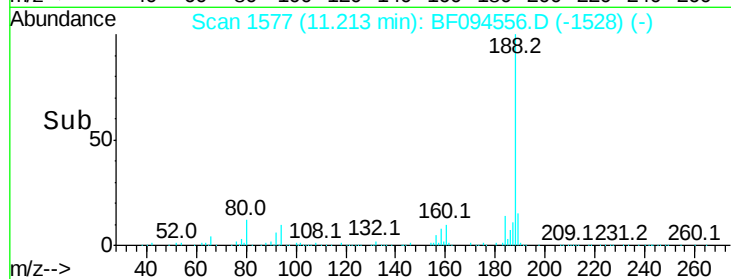
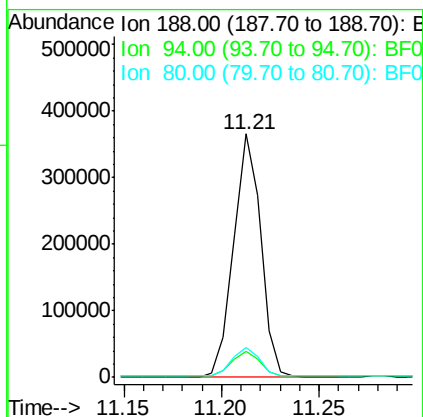
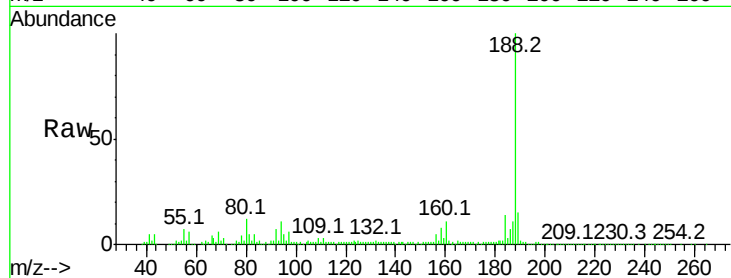




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.21 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF094556.D
Acq: 20 Apr 2017 20:33

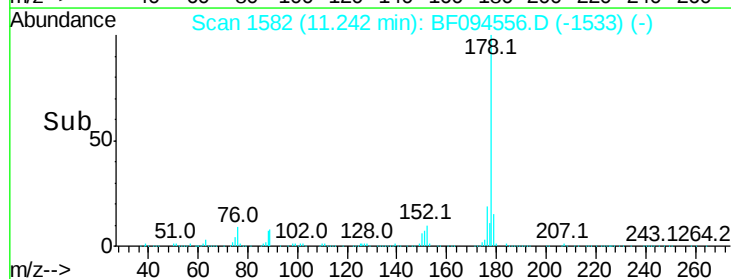
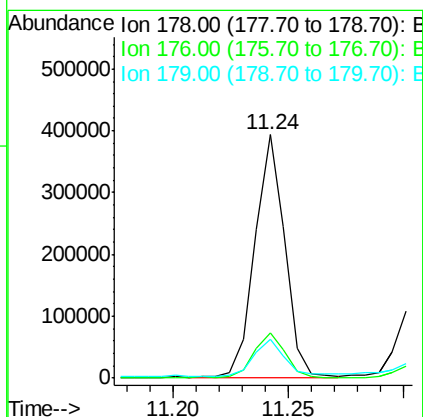
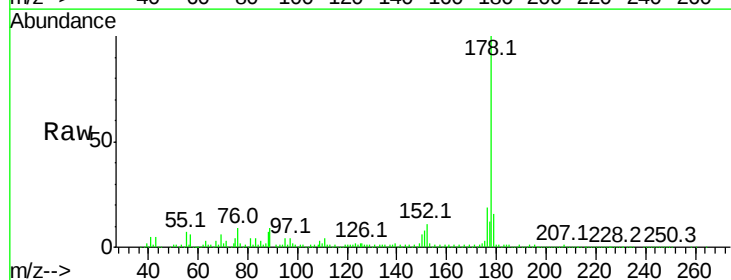
Instrument :
BNA_F
ClientSampled :

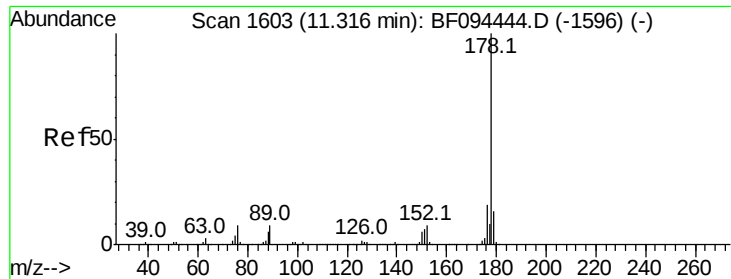
Tot Ion:188 Resp: 354057
Ion Ratio Lower Upper
188 100
94 10.8 9.4 14.2
80 12.2 10.2 15.2



#70
Phenanthrene
Concen: 17.70 ng
RT: 11.24 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF094556.D
Acq: 20 Apr 2017 20:33

Tgt Ion:178 Resp: 352956
Ion Ratio Lower Upper
178 100
176 18.7 16.2 24.4
179 15.8 12.6 19.0





#71

Anthracene

Concen: 17.11 ng

RT: 11.24 min Scan# 1582

Delta R.T. -0.07 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

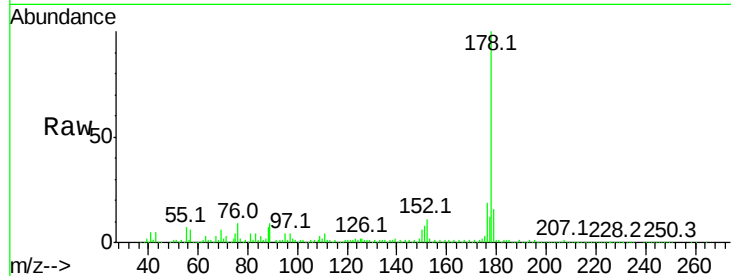
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 352956

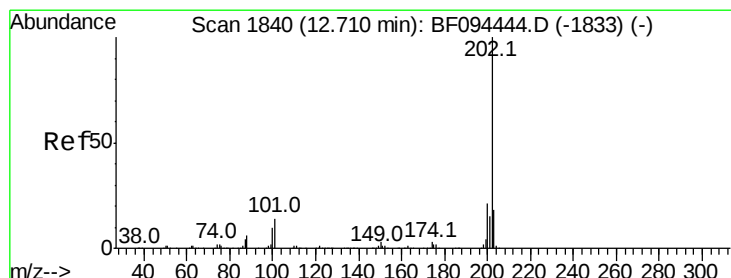
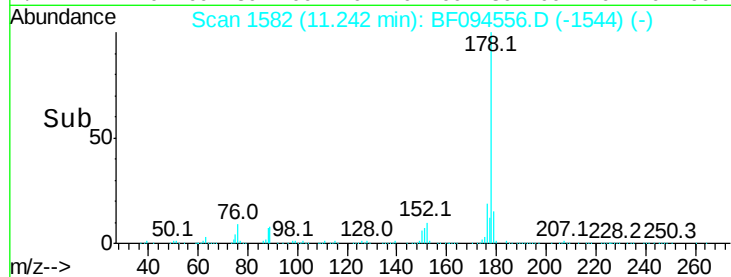
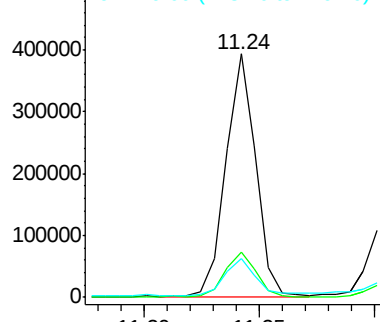
Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	15.8	12.7	19.1



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: 22.18 ng

RT: 12.71 min Scan# 1831

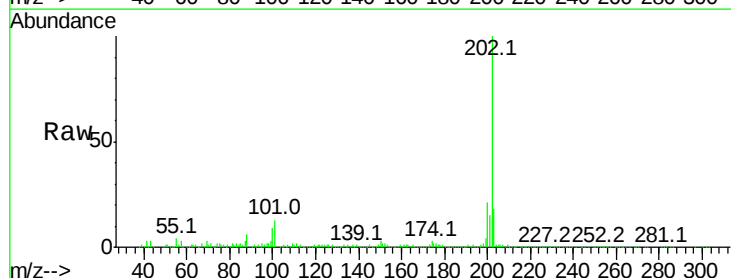
Delta R.T. -0.00 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

Tgt Ion:202 Resp: 458296

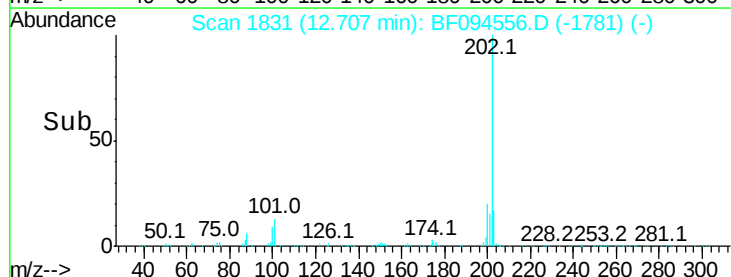
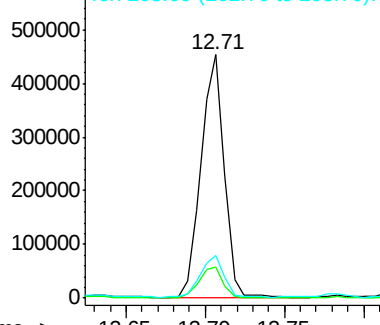
Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	33.2
203	17.7	0.0	38.1

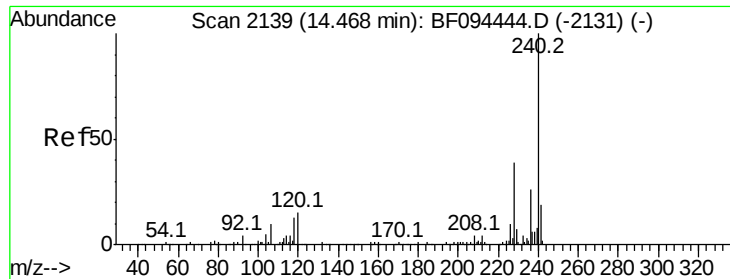


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.46 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

Instrument :

BNA_F

ClientSampleId :

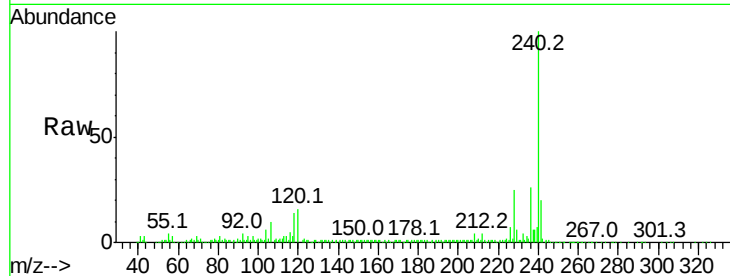
Tot Ion:240 Resp: 272481

Ion Ratio Lower Upper

240 100

120 16.5 5.8 8.8#

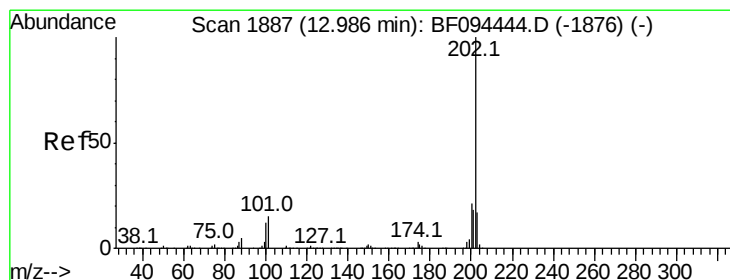
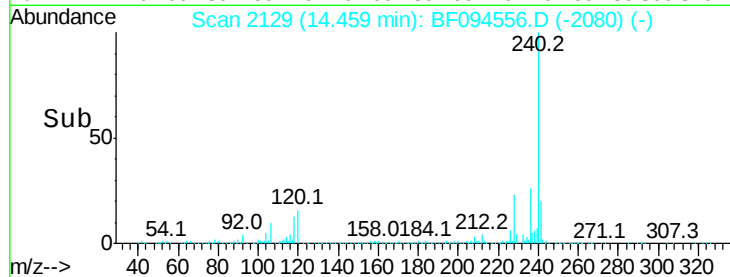
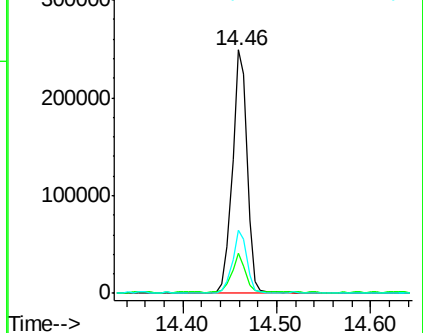
236 25.7 20.5 30.7



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: 25.16 ng

RT: 12.98 min Scan# 1877

Delta R.T. -0.01 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

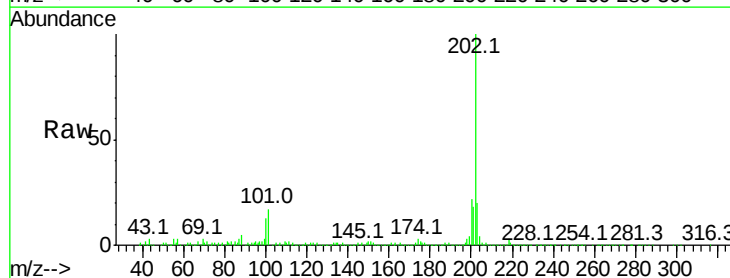
Tgt Ion:202 Resp: 478928

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

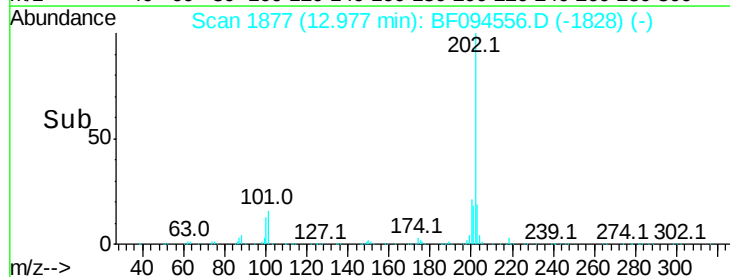
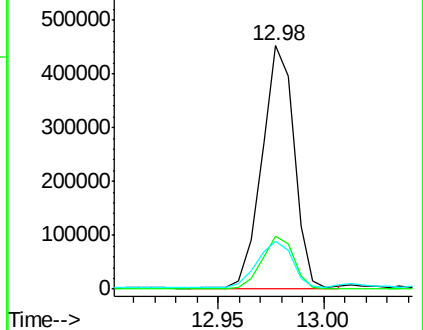
203 19.6 14.4 21.6

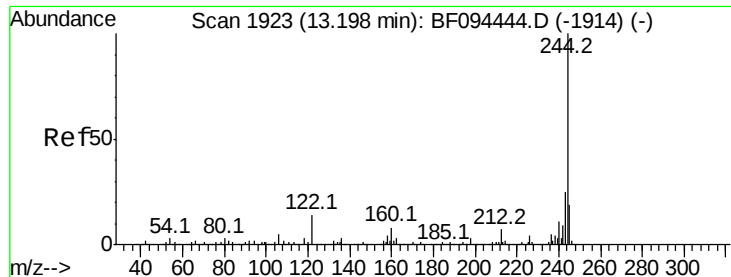


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

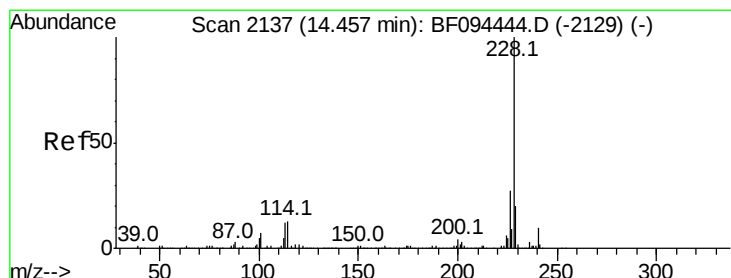
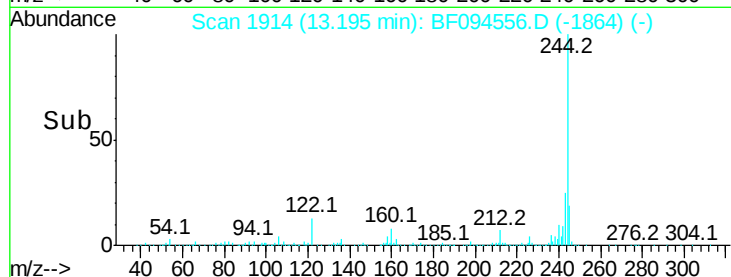
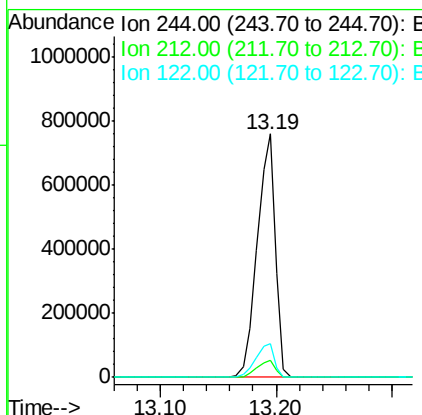
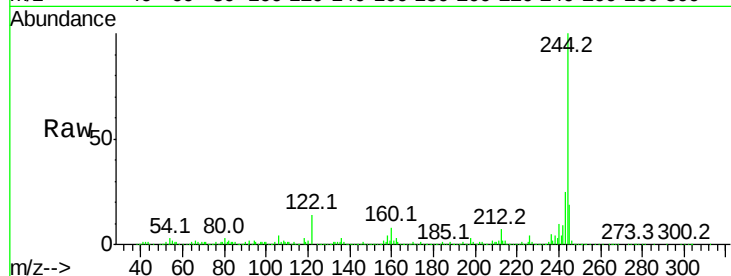




#78
 Terphenyl-d14
 Concen: 81.63 ng
 RT: 13.19 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: BF094556.D
 Acq: 20 Apr 2017 20:33

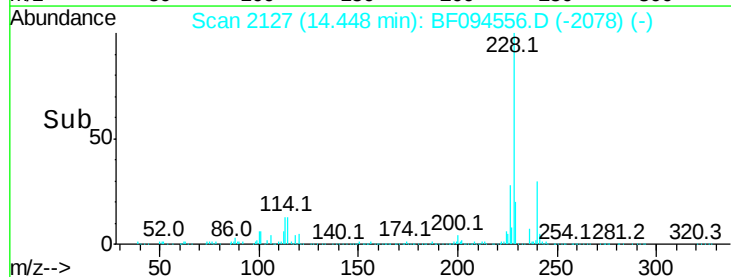
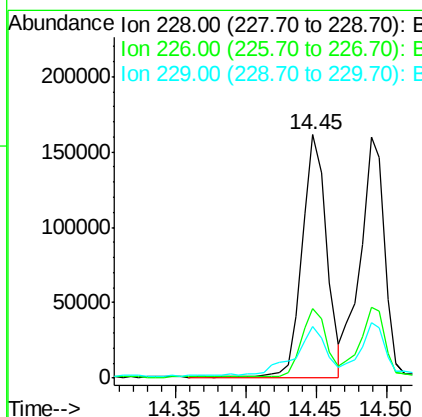
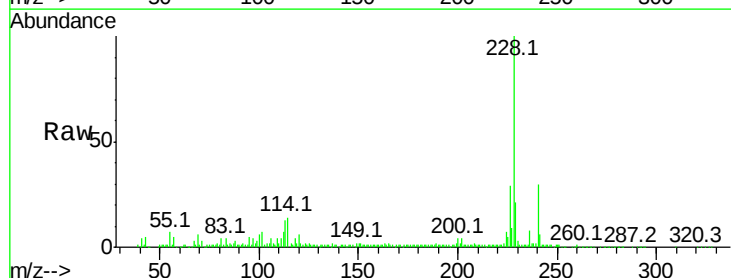
Instrument :
 BNA_F
 ClientSampleId :

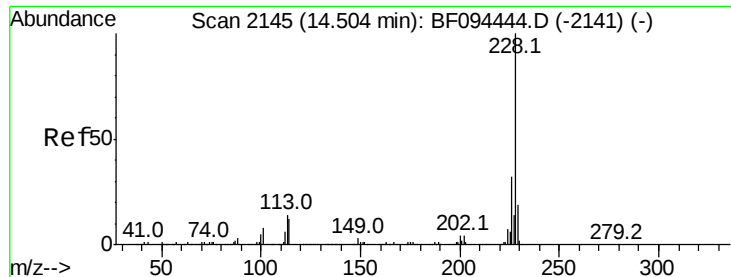
Tot Ion:244 Resp: 832101
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.0 9.0
 122 13.6 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 12.17 ng
 RT: 14.45 min Scan# 2127
 Delta R.T. -0.01 min
 Lab File: BF094556.D
 Acq: 20 Apr 2017 20:33

Tgt Ion:228 Resp: 192734
 Ion Ratio Lower Upper
 228 100
 226 28.8 22.6 33.8
 229 21.1 16.3 24.5





#82

Chrysene

Concen: 13.19 ng

RT: 14.49 min Scan# 2134

Delta R.T. -0.01 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

Instrument :

BNA_F

ClientSampleId :

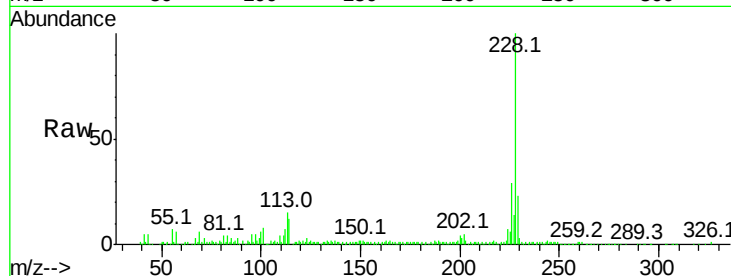
Tot Ion:228 Resp: 190918

Ion Ratio Lower Upper

228 100

226 29.3 24.9 37.3

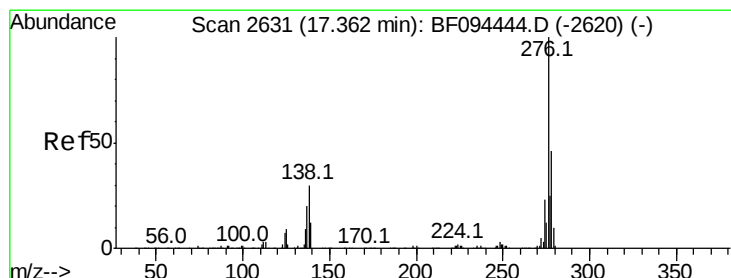
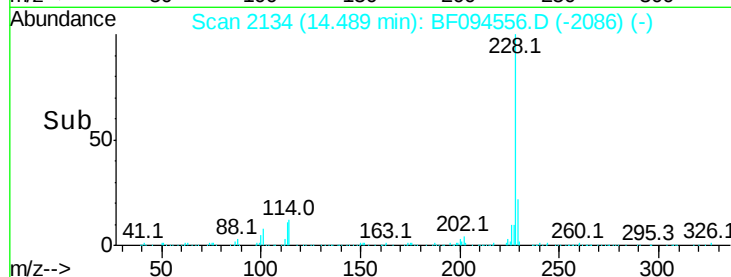
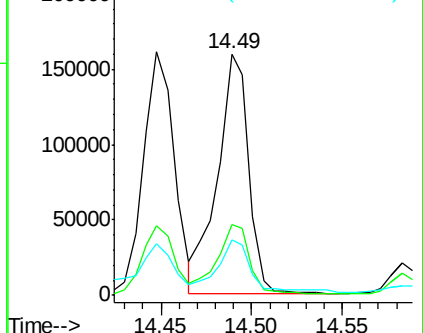
229 22.8 15.8 23.6



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: 7.23 ng

RT: 17.36 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

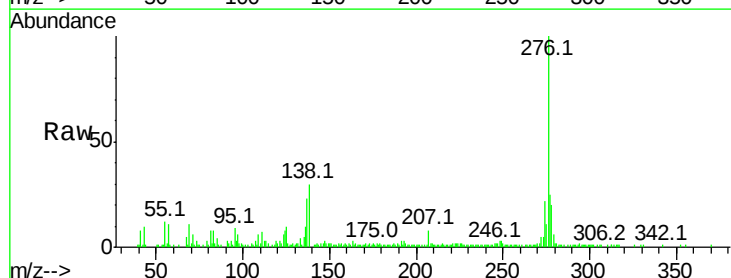
Tgt Ion:276 Resp: 99629

Ion Ratio Lower Upper

276 100

138 30.1 27.8 41.6

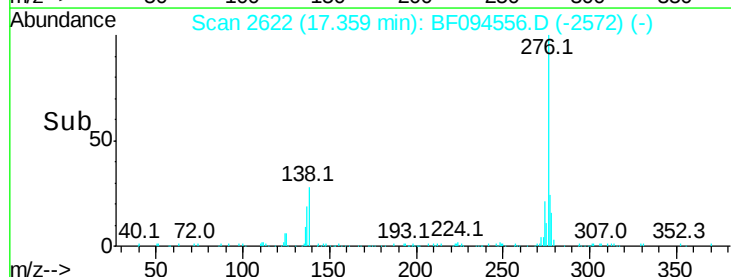
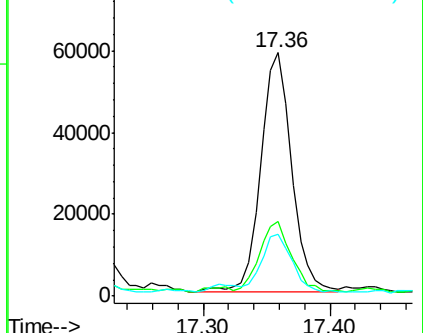
277 24.3 20.2 30.4

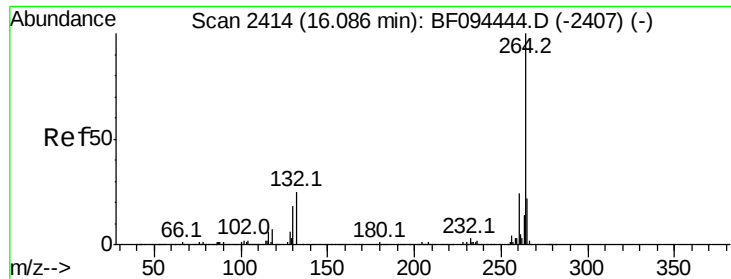


Abundance Ion 276.00 (275.70 to 276.70): E

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: 16.09 min Scan# 2406

Delta R.T. 0.00 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

Instrument :

BNA_F

ClientSampleId :

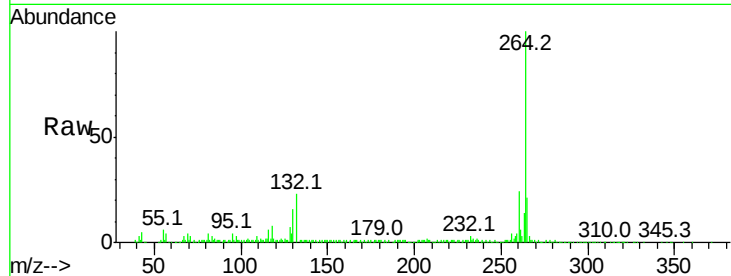
Tot Ion:264 Resp: 248283

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	21.3	17.2	25.8

264 100

260 23.7 19.5 29.3

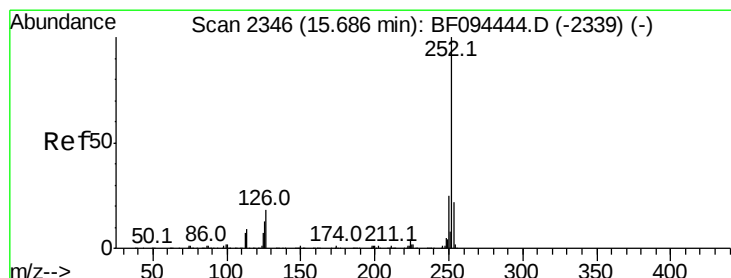
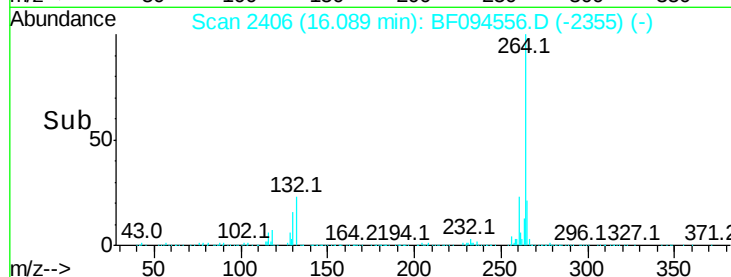
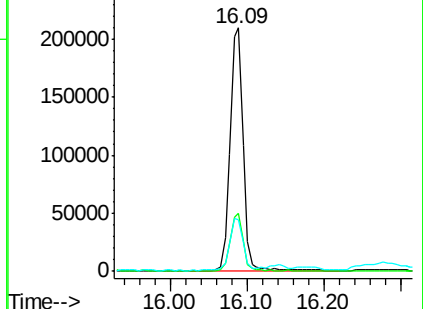
265 21.3 17.2 25.8



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: 18.91 ng

RT: 15.68 min Scan# 2337

Delta R.T. -0.00 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

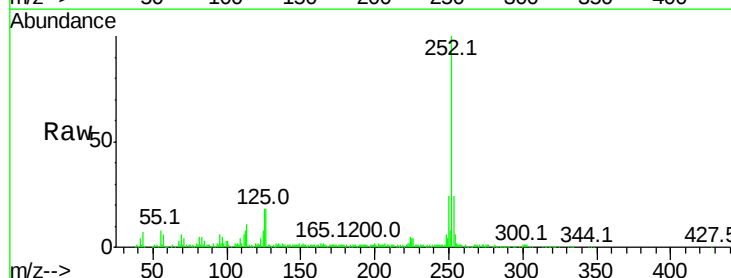
Tgt Ion:252 Resp: 287175

Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.1	27.1
125	18.2	9.8	14.8

252 100

253 24.5 18.1 27.1

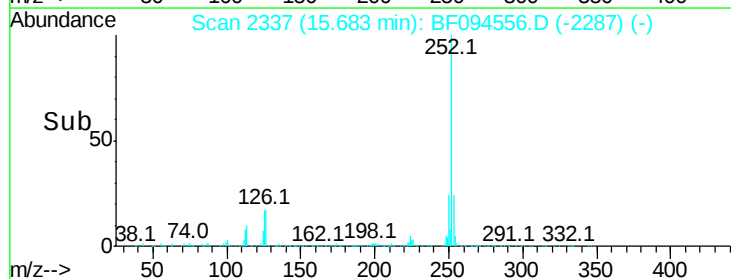
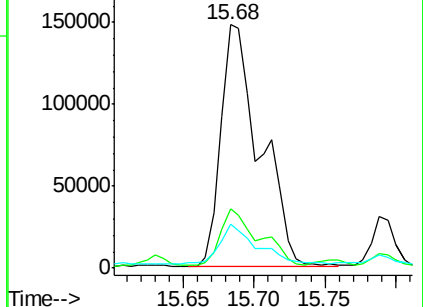
125 18.2 9.8 14.8#

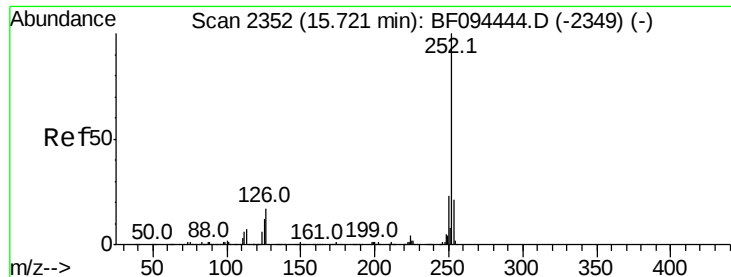


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 19.98 ng

RT: 15.68 min Scan# 2337

Delta R.T. -0.04 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

Instrument :

BNA_F

ClientSampleId :

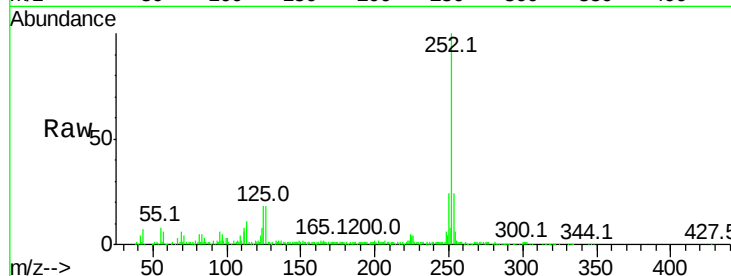
Tot Ion:252 Resp: 287175

Ion Ratio Lower Upper

252 100

253 24.5 18.4 27.6

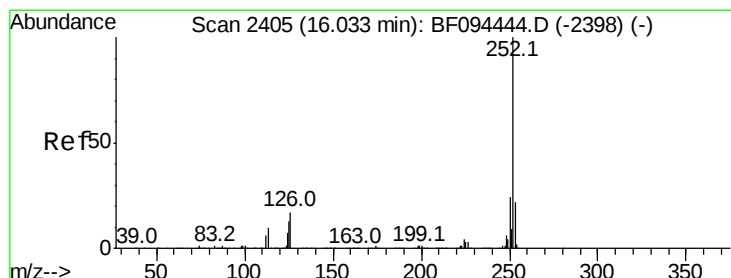
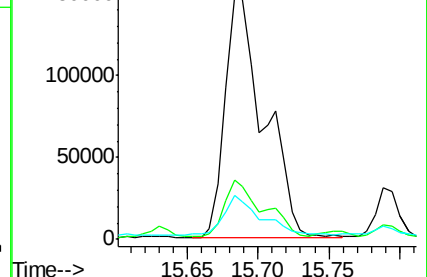
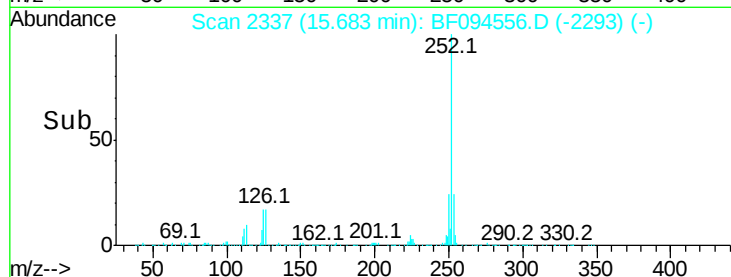
125 18.2 13.1 19.7



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: 11.86 ng

RT: 16.03 min Scan# 2396

Delta R.T. -0.00 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

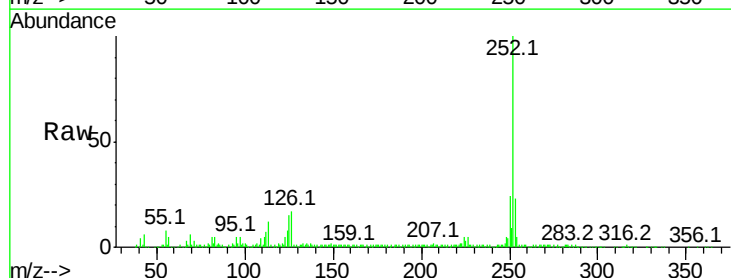
Tgt Ion:252 Resp: 167541

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

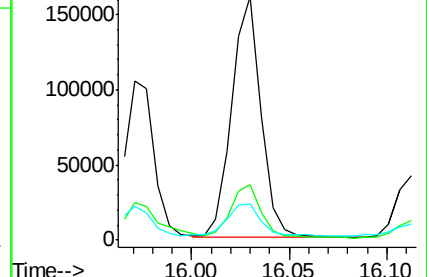
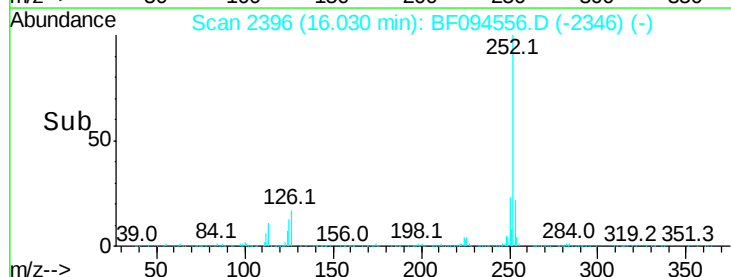
125 15.0 11.0 16.4

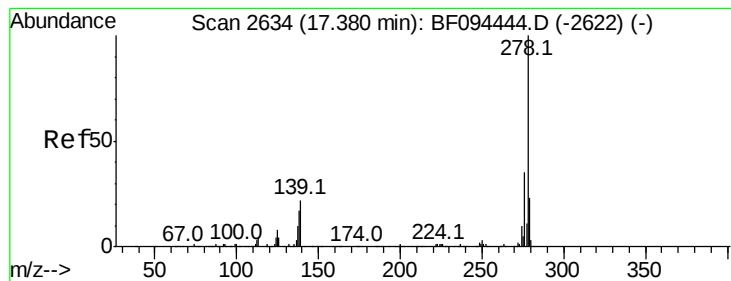


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.38 ng

RT: 17.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

Instrument :

BNA_F

ClientSampleId :

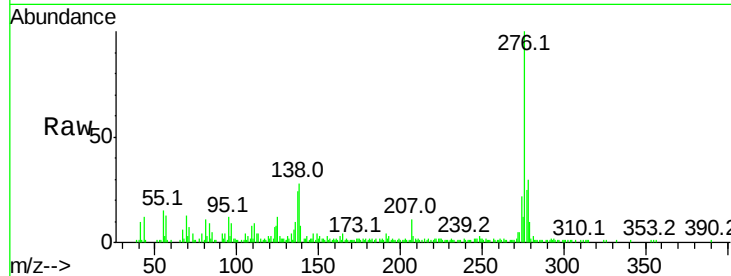
Tot Ion:278 Resp: 27914

Ion Ratio Lower Upper

278 100

139 26.0 16.6 24.8#

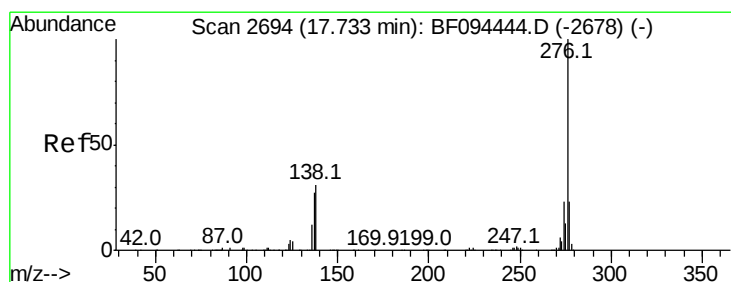
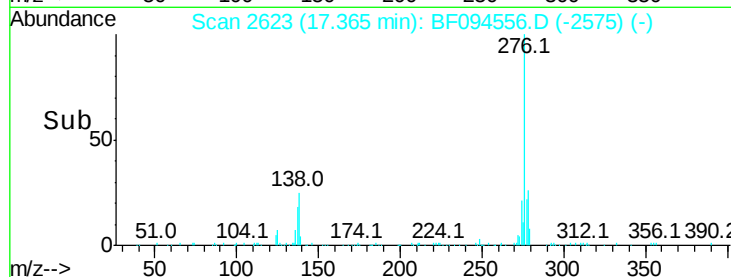
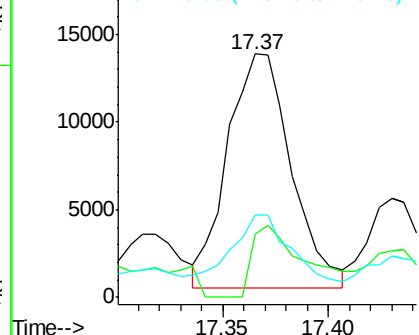
279 33.8 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 8.28 ng

RT: 17.73 min Scan# 2685

Delta R.T. -0.00 min

Lab File: BF094556.D

Acq: 20 Apr 2017 20:33

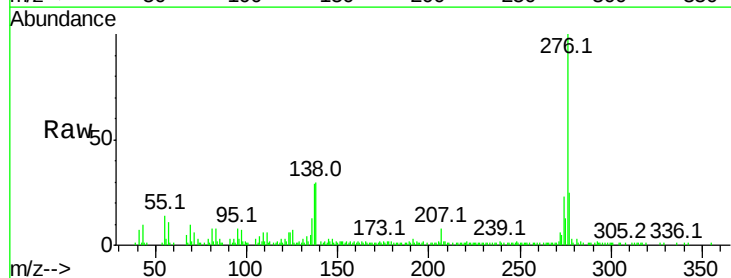
Tgt Ion:276 Resp: 98946

Ion Ratio Lower Upper

276 100

277 24.6 18.6 28.0

138 30.3 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

