

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030217\
 Data File : BF093361.D
 Acq On : 3 Mar 2017 14:17
 Operator : SJ/MA
 Sample : I2003-05 5X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB436ADL

Quant Time: Mar 03 14:45:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	155075	20.00	ng	-0.06
21) Naphthalene-d8	8.09	136	606279	20.00	ng	-0.06
38) Acenaphthene-d10	9.85	164	292413	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	422312	20.00	ng	-0.05
75) Chrysene-d12	13.97	240	309845	20.00	ng	-0.05
86) Perylene-d12	15.40	264	295629	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.39	112	222605	24.63	ng	-0.06
7) Phenol-d6	6.44	99	339058	29.15	ng	-0.05
23) Nitrobenzene-d5	7.37	82	180010	16.53	ng	-0.06
41) 2,4,6-Tribromophenol	10.65	330	44844	21.20	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	308205	19.10	ng	-0.05
78) Terphenyl-d14	12.92	244	168437	12.77	ng	-0.05

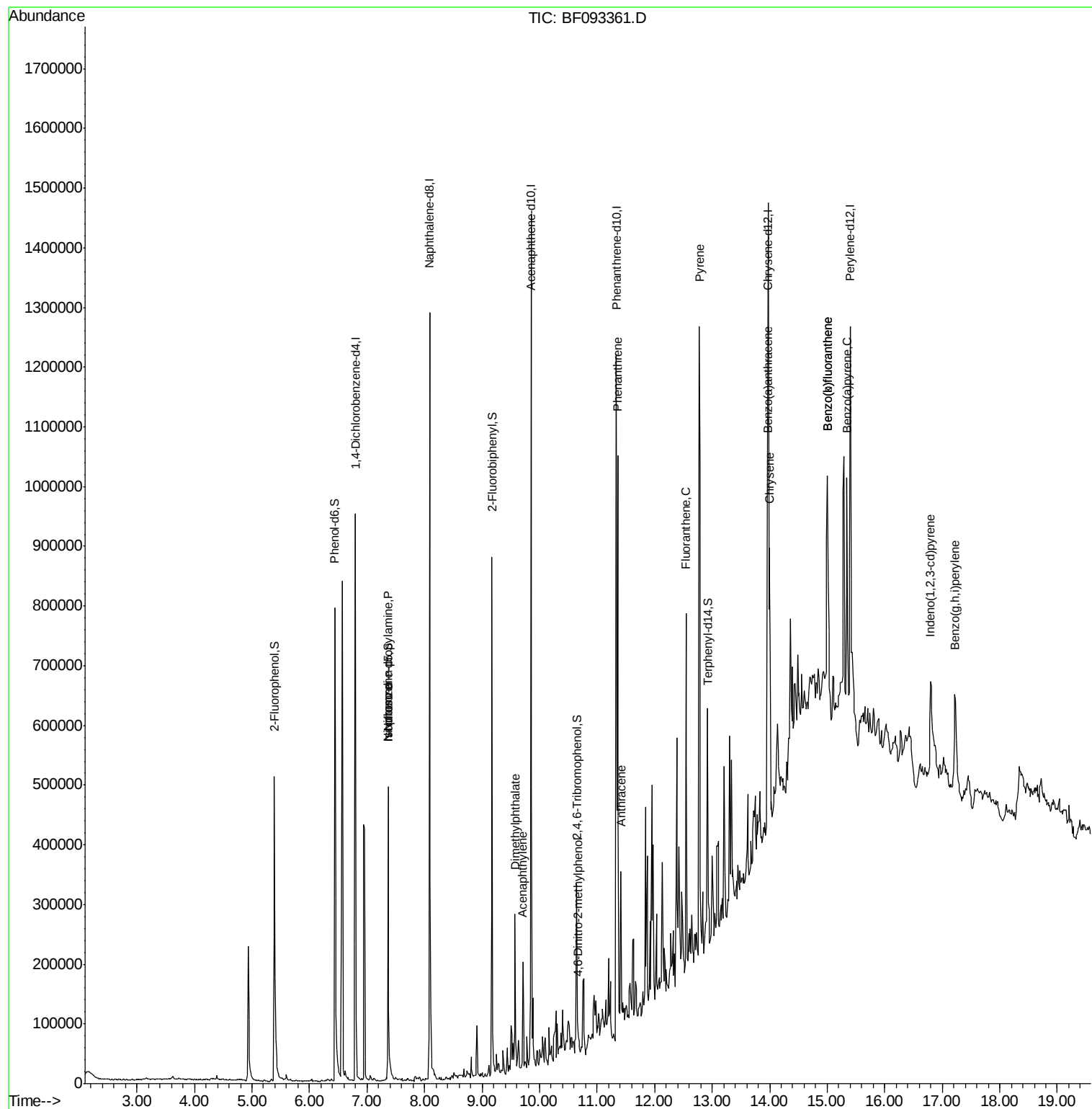
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.37	70	23666	3.20	ng	# 79
25) Isophorone	7.37	82	172678	8.51	ng	# 65
48) Acenaphthylene	9.71	152	68674	2.40	ng	98
49) Dimethylphthalate	9.57	163	95449	4.85	ng	99
64) 4,6-Dinitro-2-methylphenol	10.66	198	229	2.75	ng	# 1
70) Phenanthrene	11.36	178	395758	16.36	ng	98
71) Anthracene	11.41	178	110380	4.54	ng	97
74) Fluoranthene	12.54	202	270643	10.84	ng	97
77) Pyrene	12.77	202	581558	25.08	ng	100
80) Benzo(a)anthracene	13.96	228	251175	13.25	ng	97
82) Chrysene	14.00	228	200150	11.28	ng	98
85) Indeno(1,2,3-cd)pyrene	16.80	276	85656	6.23	ng	98
87) Benzo(b)fluoranthene	15.00	252	262705	13.50	ng	# 94
88) Benzo(k)fluoranthene	15.00	252	262705	15.64	ng	# 93
89) Benzo(a)pyrene	15.35	252	194108	11.53	ng	# 96
91) Benzo(g,h,i)perylene	17.22	276	116202	8.46	ng	# 86

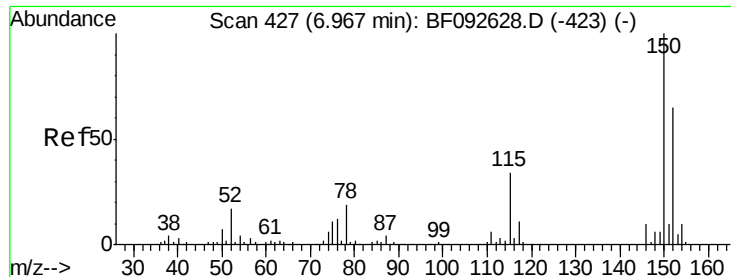
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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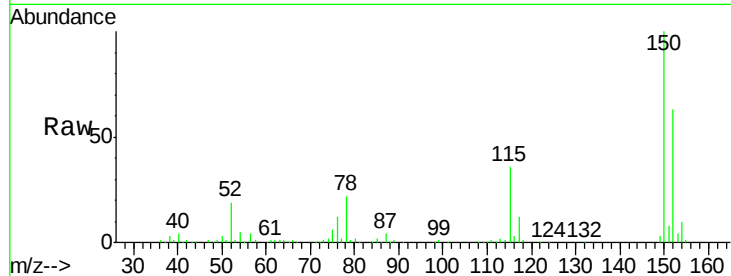


#1

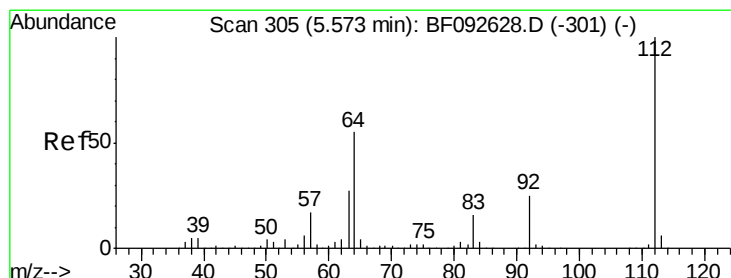
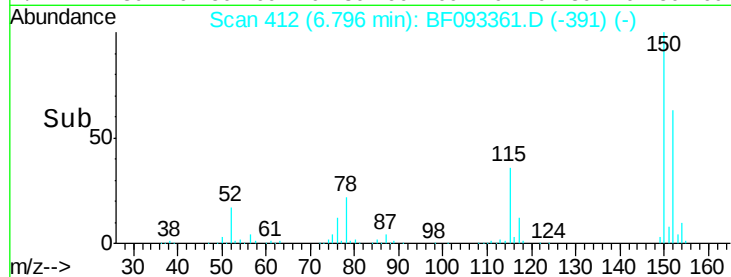
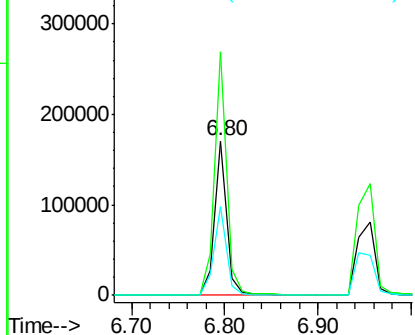
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.80 min Scan# 412
 Delta R.T. -0.06 min
 Lab File: BF093361.D
 Acq: 3 Mar 2017 14:17

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB436ADL

Tot Ion:152 Resp: 155075
 Ion Ratio Lower Upper
 152 100
 150 157.6 124.9 187.3
 115 57.4 46.0 69.0



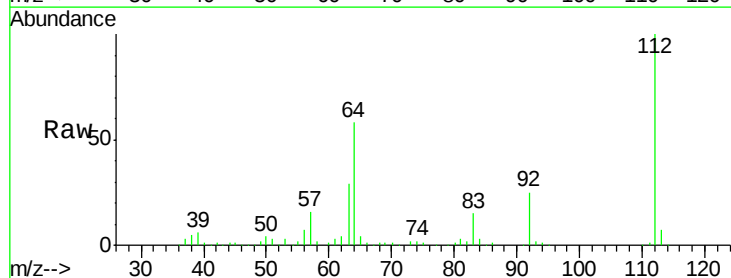
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



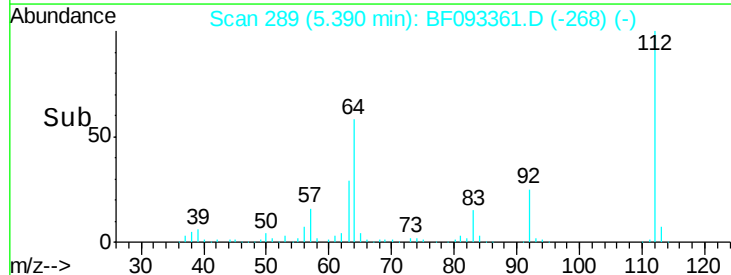
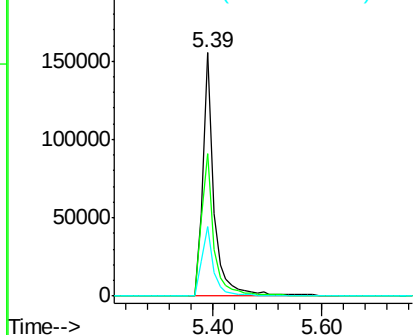
#5

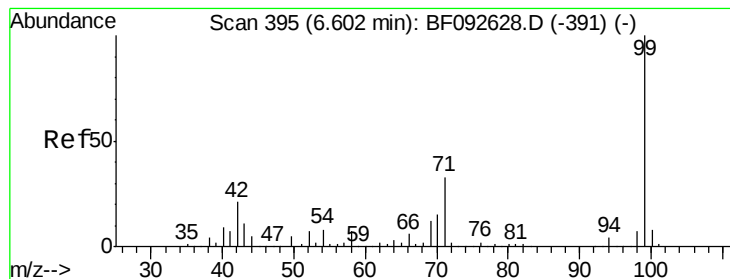
2-Fluorophenol
 Concen: 24.63 ng
 RT: 5.39 min Scan# 289
 Delta R.T. -0.06 min
 Lab File: BF093361.D
 Acq: 3 Mar 2017 14:17

Tgt Ion:112 Resp: 222605
 Ion Ratio Lower Upper
 112 100
 64 58.4 46.1 69.1
 63 28.7 23.8 35.6



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: 29.15 ng

RT: 6.44 min Scan# 381

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :

BNA_F

ClientSampleId :

HY-SB436ADL

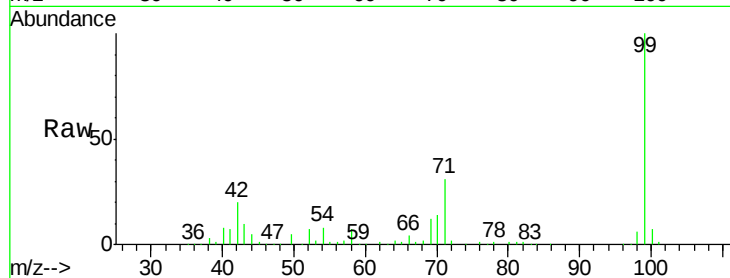
Tot Ion: 99 Resp: 339058

Ion Ratio Lower Upper

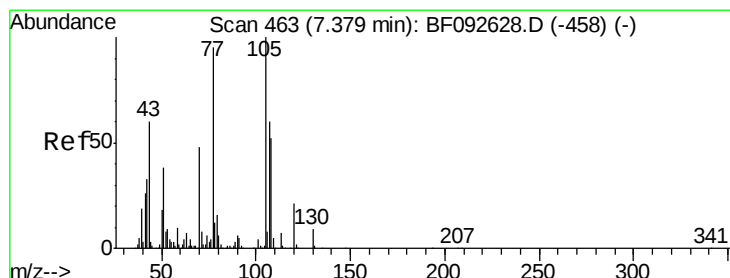
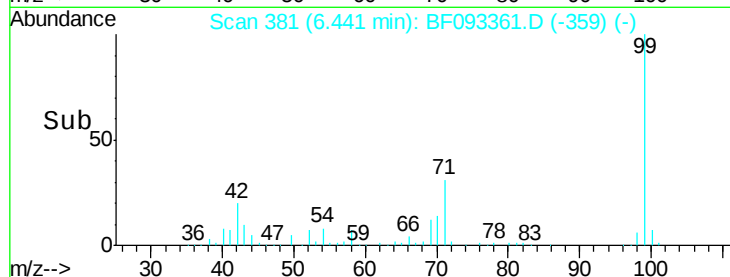
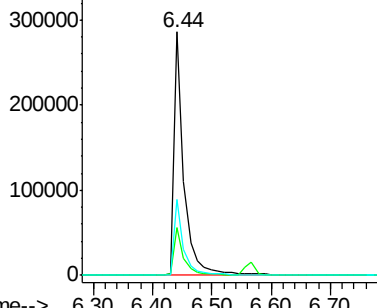
99 100

42 19.8 15.6 23.4

71 31.2 27.5 41.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 3.20 ng

RT: 7.37 min Scan# 462

Delta R.T. 0.09 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Tgt Ion: 70 Resp: 23666

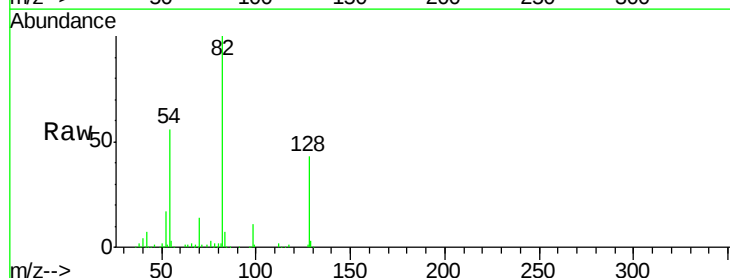
Ion Ratio Lower Upper

70 100

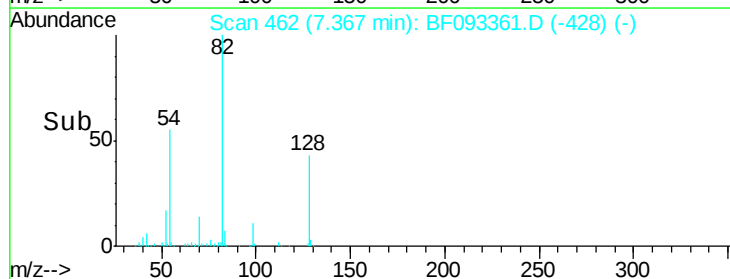
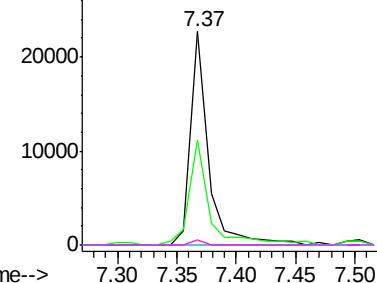
42 49.3 49.4 74.0#

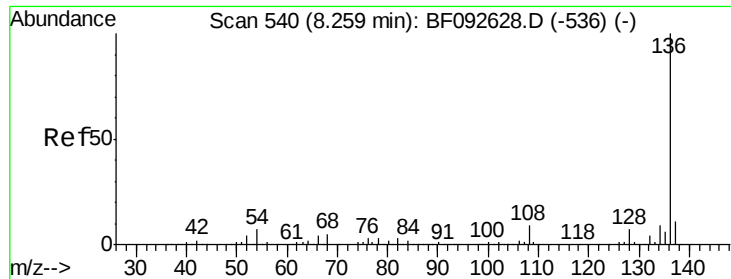
101 0.0 7.4 11.2#

130 2.3 14.2 21.4#



Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): BF0
Ion 130.00 (129.70 to 130.70): BF0

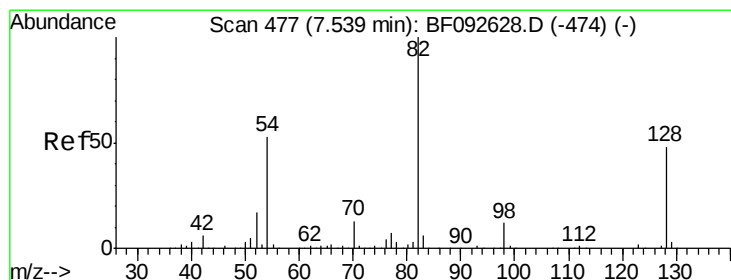
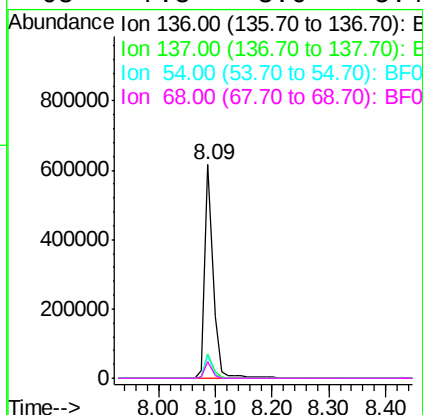
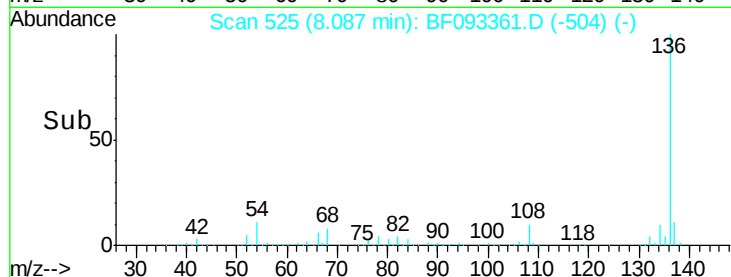
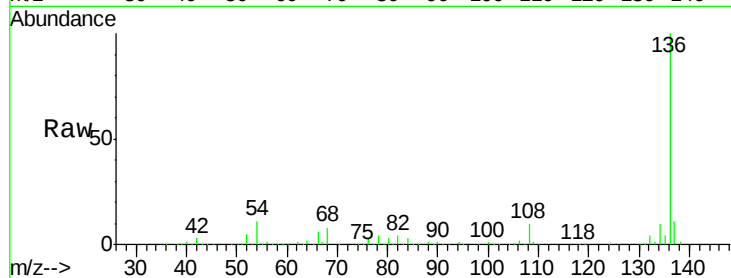




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.09 min Scan# 525
Delta R.T. -0.06 min
Lab File: BF093361.D
Acq: 3 Mar 2017 14:17

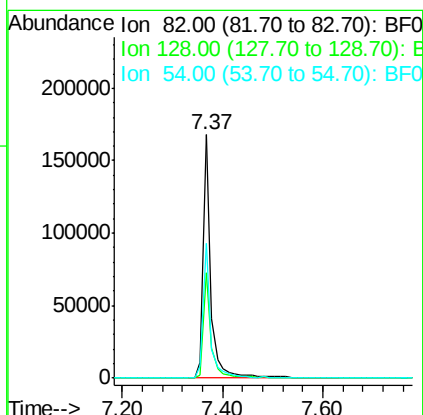
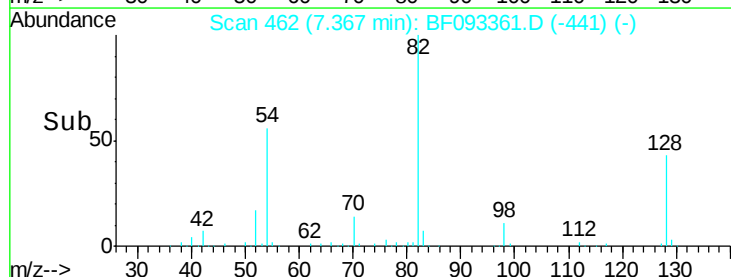
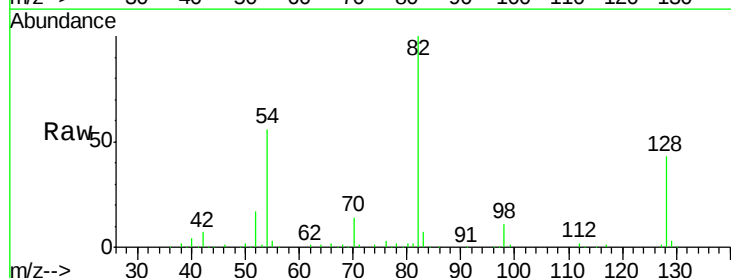
Instrument :
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ClientSampleId :
HY-SB436ADL

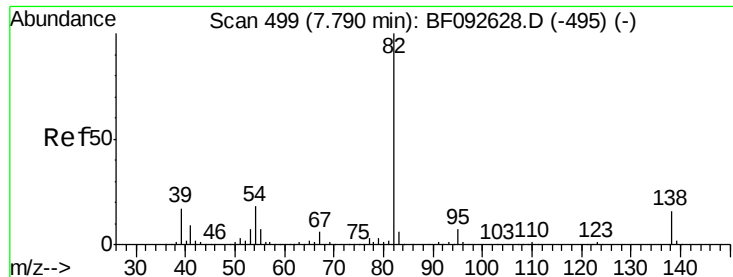
Tot Ion:136	Resp:	606279
Ion	Ratio	Lower Upper
136	100	
137	11.4	8.4 12.6
54	10.8	4.5 6.7#
68	7.8	3.6 5.4#



#23
Nitrobenzene-d5
Concen: 16.53 ng
RT: 7.37 min Scan# 462
Delta R.T. -0.06 min
Lab File: BF093361.D
Acq: 3 Mar 2017 14:17

Tgt Ion: 82	Resp:	180010
Ion	Ratio	Lower Upper
82	100	
128	43.5	34.6 52.0
54	55.6	39.5 59.3





#25

Isophorone

Concen: 8.51 ng

RT: 7.37 min Scan# 462

Delta R.T. -0.32 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :

BNA_F

ClientSampleId :

HY-SB436ADL

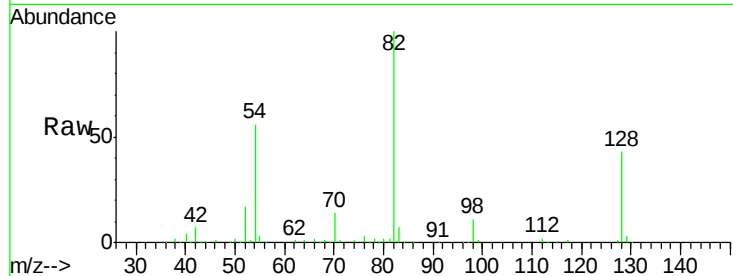
Tot Ion: 82 Resp: 172678

Ion Ratio Lower Upper

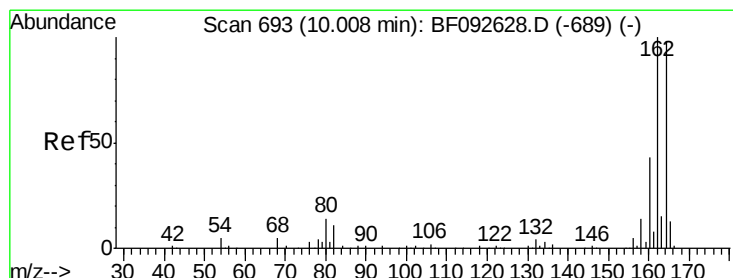
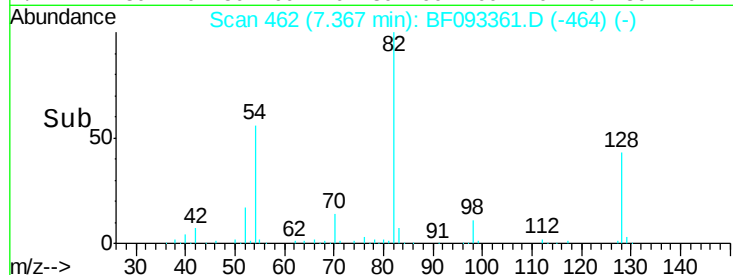
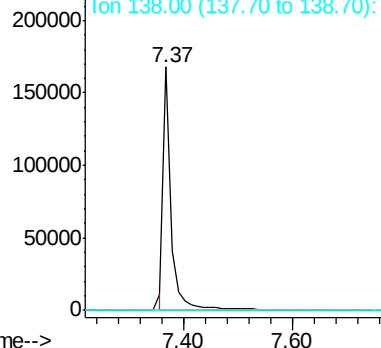
82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

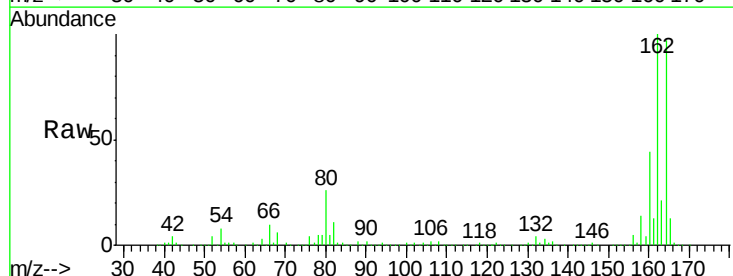
Tgt Ion:164 Resp: 292413

Ion Ratio Lower Upper

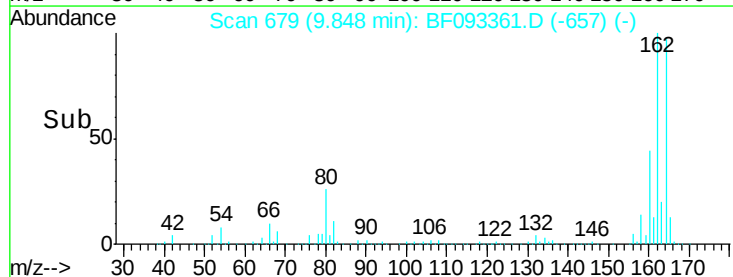
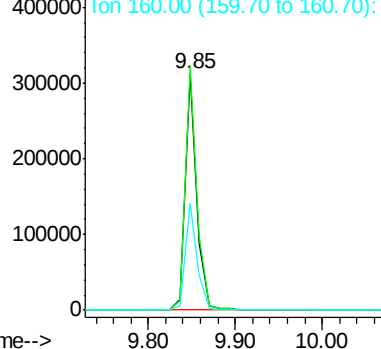
164 100

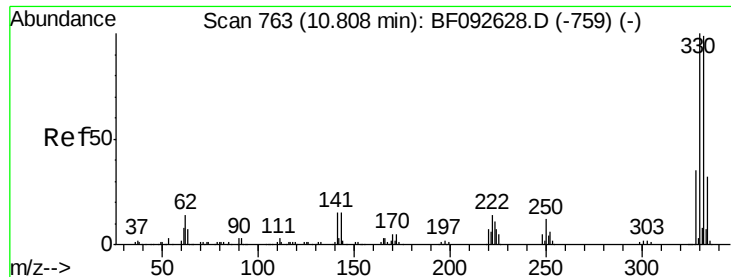
162 103.0 80.2 120.2

160 44.9 36.9 55.3



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

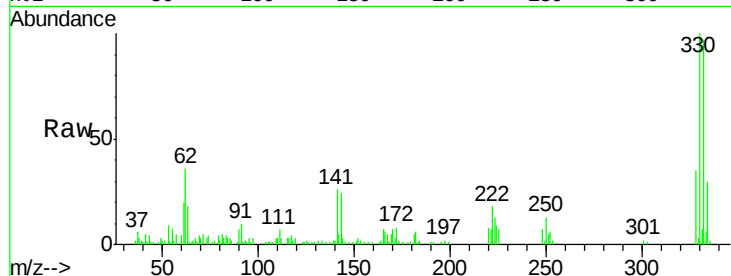




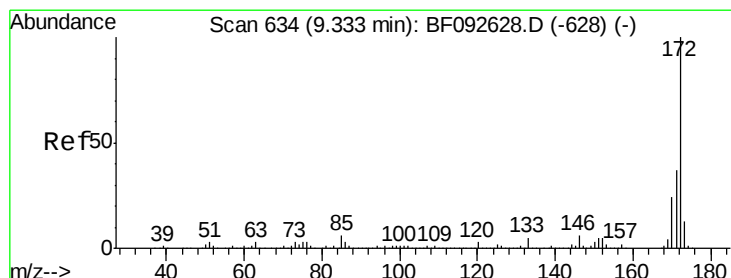
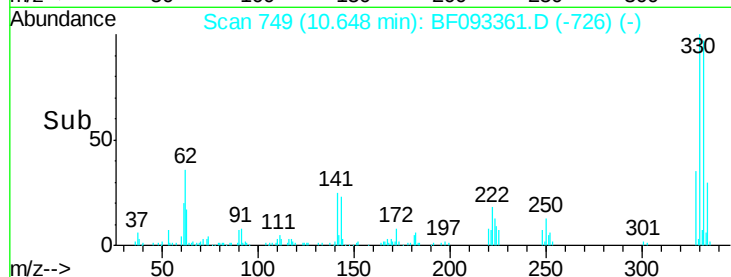
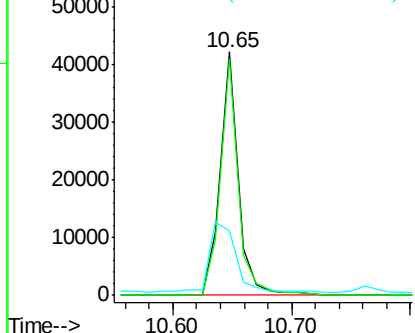
#41
 2,4,6-Tribromophenol
 Concen: 21.20 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.03 min
 Lab File: BF093361.D
 Acq: 3 Mar 2017 14:17

Instrument :
 BNA_F
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 HY-SB436ADL

Tot Ion:330 Resp: 44844
 Ion Ratio Lower Upper
 330 100
 332 94.3 77.4 116.2
 141 44.1 34.1 51.1

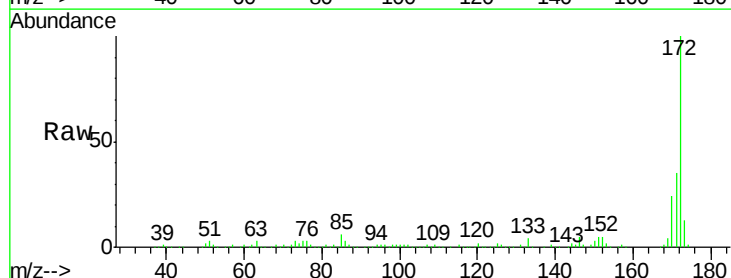


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

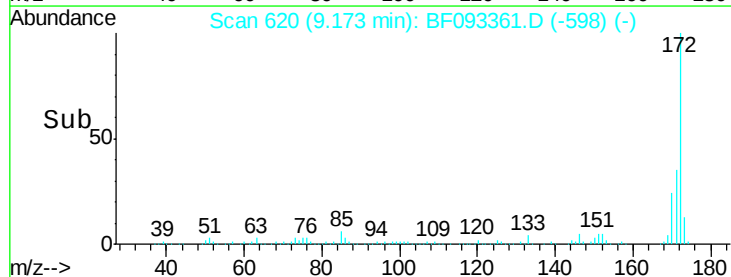
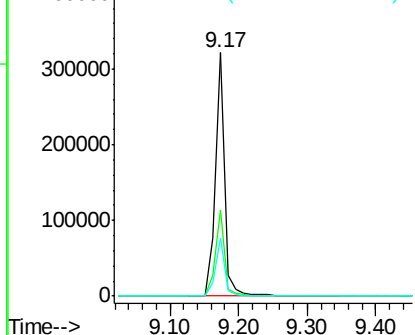


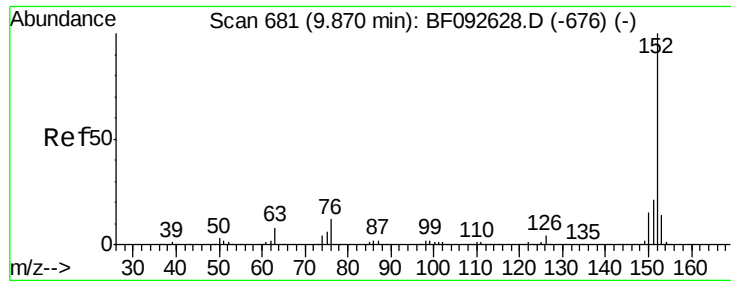
#44
 2-Fluorobiphenyl
 Concen: 19.10 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.05 min
 Lab File: BF093361.D
 Acq: 3 Mar 2017 14:17

Tgt Ion:172 Resp: 308205
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.4 44.0
 170 23.7 20.2 30.4



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





#48

Acenaphthylene

Concen: 2.40 ng

RT: 9.71 min Scan# 667

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :

BNA_F

ClientSampleId :

HY-SB436ADL

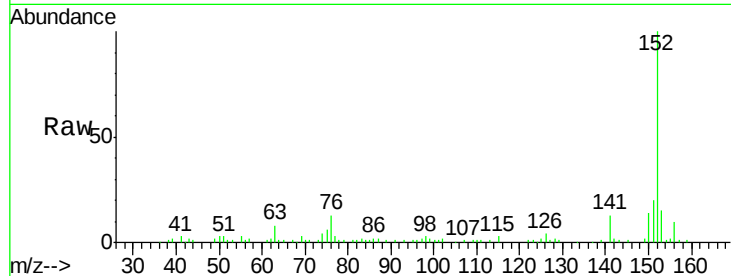
Tot Ion:152 Resp: 68674

Ion Ratio Lower Upper

152 100

151 19.7 16.9 25.3

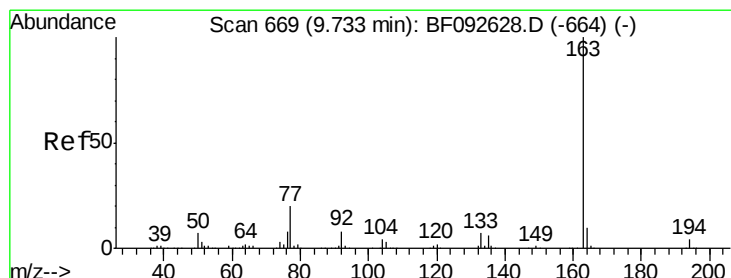
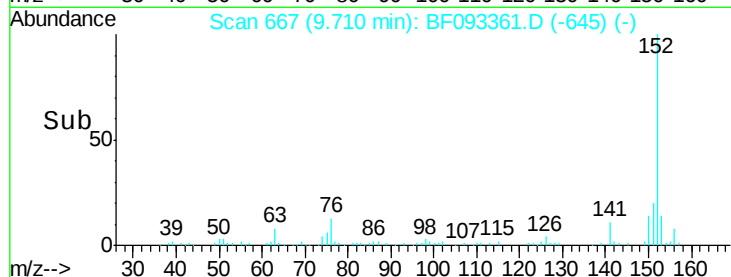
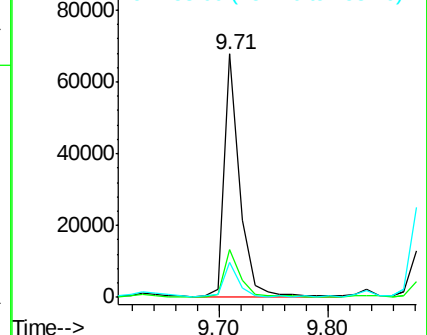
153 14.5 11.4 17.2



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: 4.85 ng

RT: 9.57 min Scan# 655

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

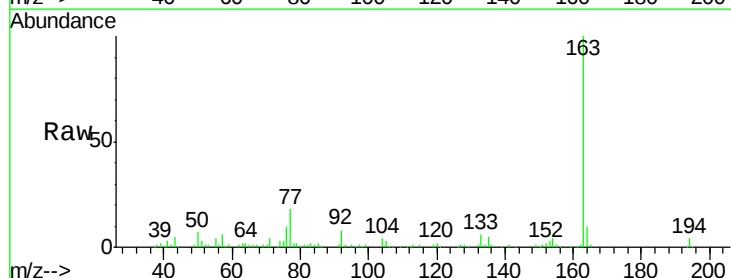
Tgt Ion:163 Resp: 95449

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.4

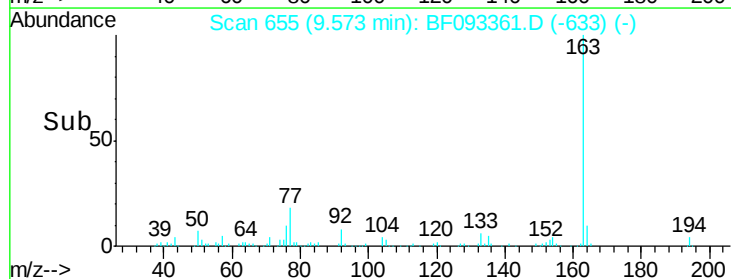
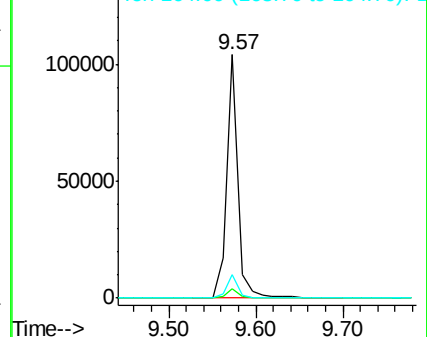
164 9.6 8.0 12.0

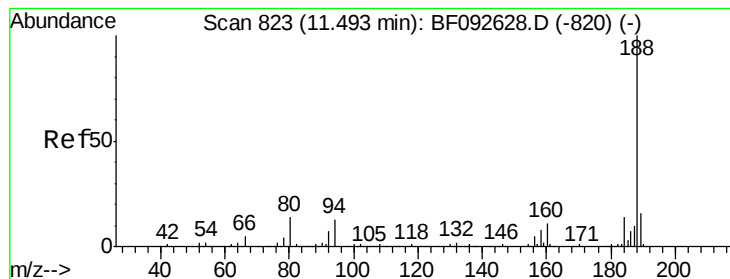


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :

BNA_F

ClientSampleId :

HY-SB436ADL

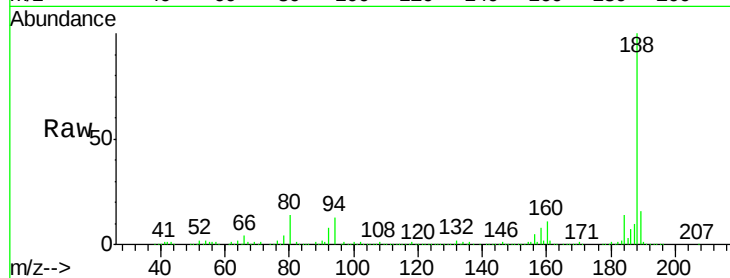
Tot Ion:188 Resp: 422312

Ion Ratio Lower Upper

188 100

94 13.5 10.0 15.0

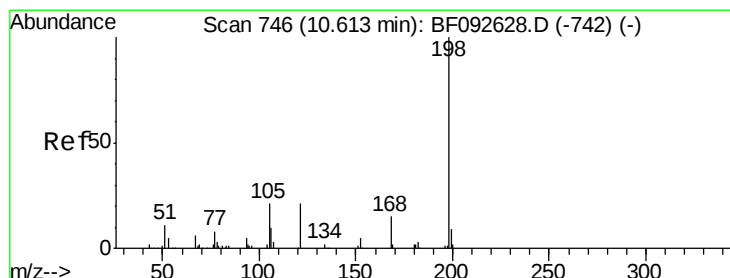
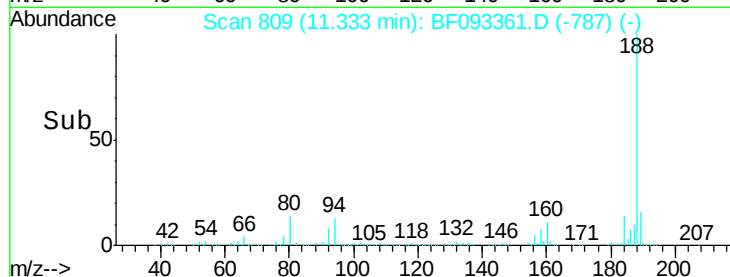
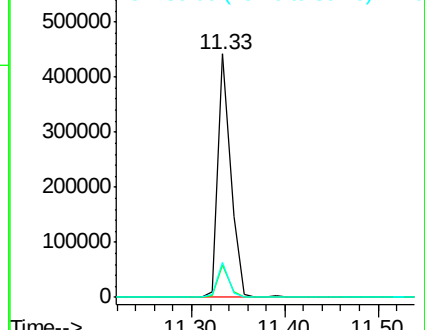
80 14.5 11.2 16.8



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



#64

4,6-Dinitro-2-methylphenol

Concen: 2.75 ng

RT: 10.66 min Scan# 750

Delta R.T. 0.16 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

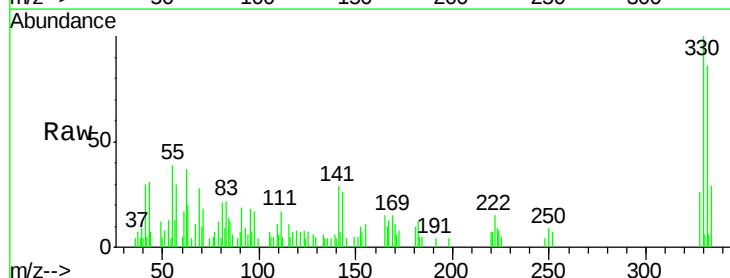
Tgt Ion:198 Resp: 229

Ion Ratio Lower Upper

198 100

51 190.4 6.7 46.7#

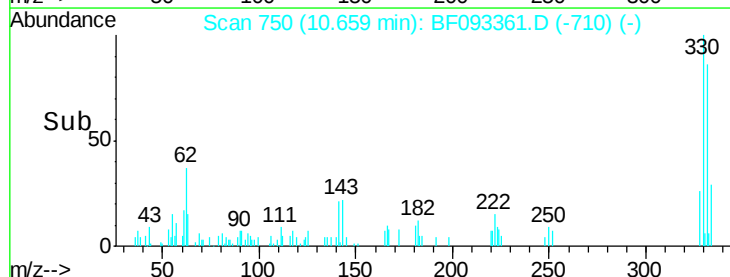
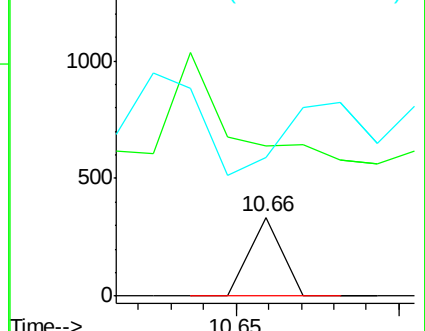
105 176.0 16.6 56.6#

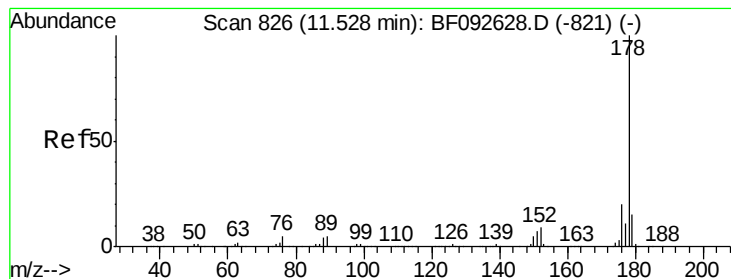


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 16.36 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :

BNA_F

ClientSampleId :

HY-SB436ADL

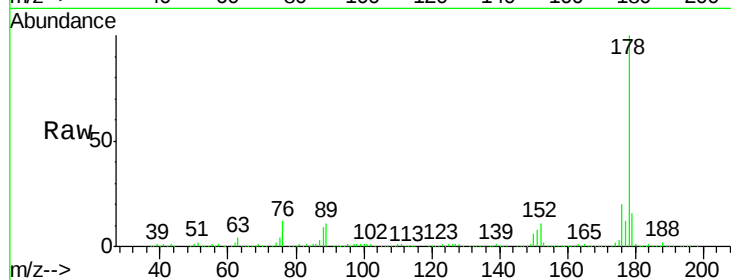
Tot Ion:178 Resp: 395758

Ion Ratio Lower Upper

178 100

176 19.6 16.6 25.0

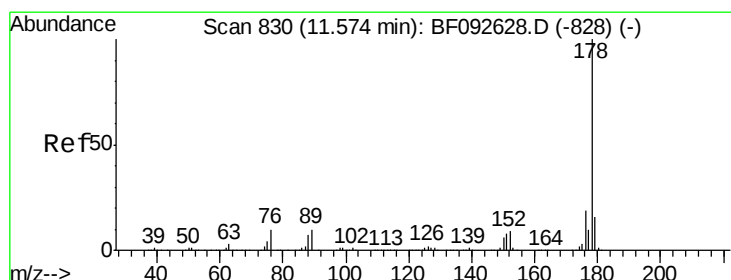
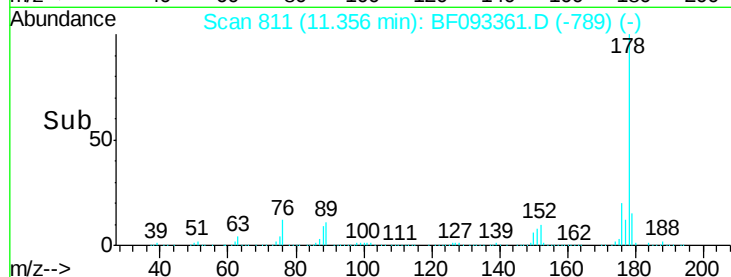
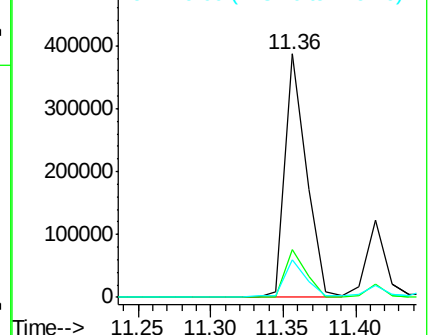
179 15.6 12.8 19.2



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: 4.54 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

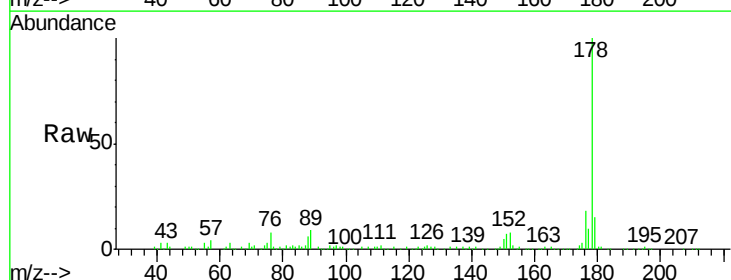
Tgt Ion:178 Resp: 110380

Ion Ratio Lower Upper

178 100

176 17.9 15.9 23.9

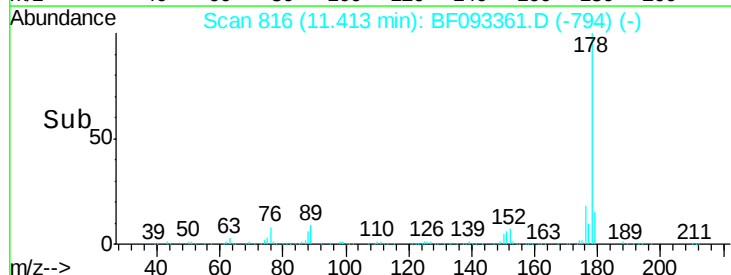
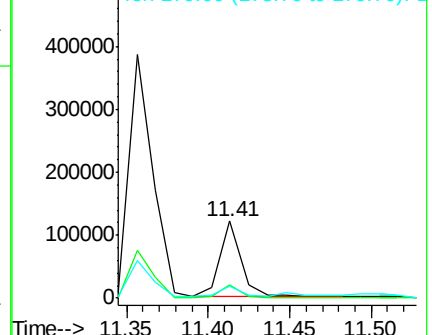
179 15.5 13.2 19.8

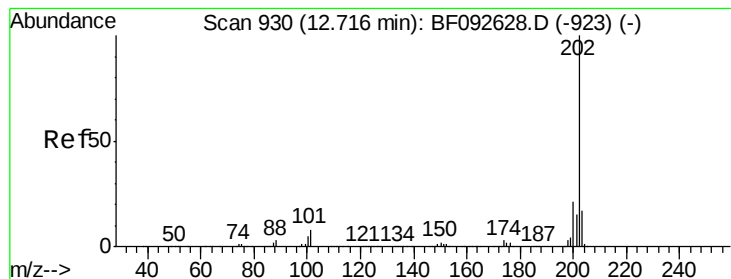


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 10.84 ng

RT: 12.54 min Scan# 915

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :

BNA_F

ClientSampleId :

HY-SB436ADL

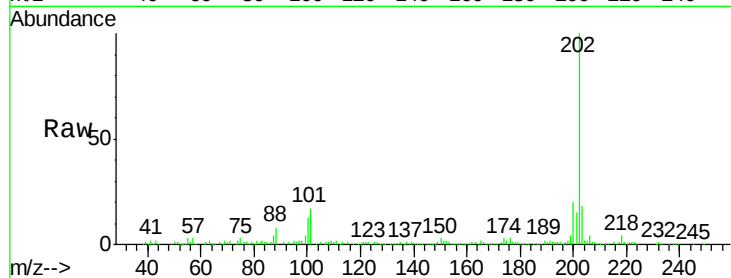
Tot Ion:202 Resp: 270643

Ion Ratio Lower Upper

202 100

101 17.1 0.0 34.6

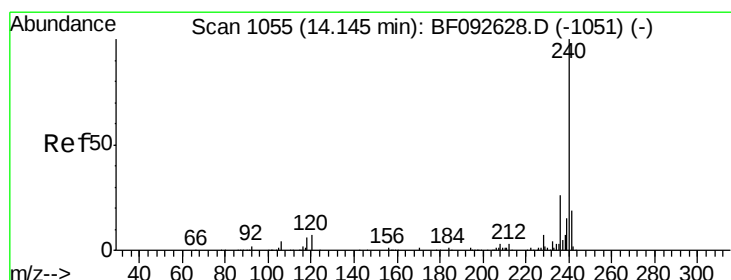
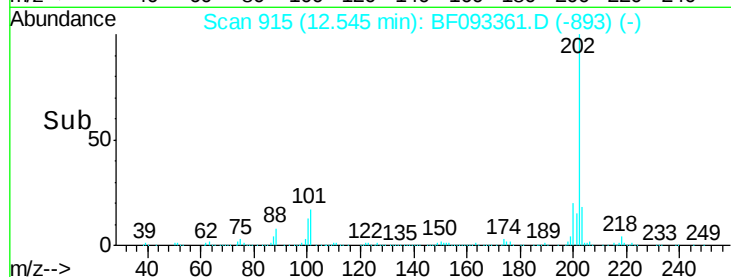
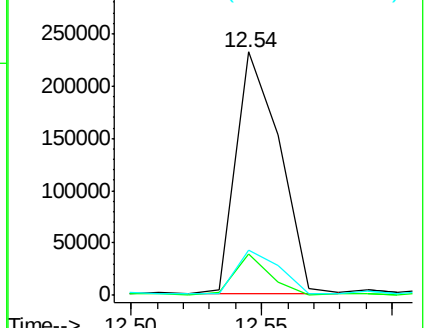
203 18.4 0.0 38.7



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: 13.97 min Scan# 1040

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

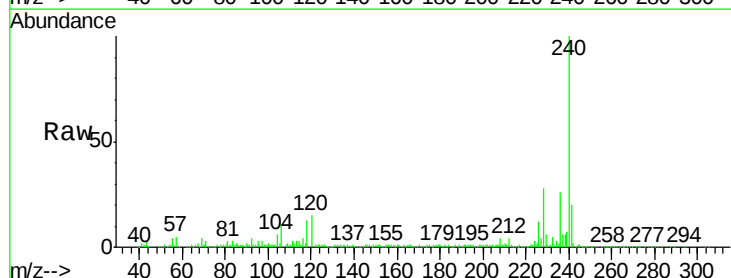
Tgt Ion:240 Resp: 309845

Ion Ratio Lower Upper

240 100

120 15.0 12.9 19.3

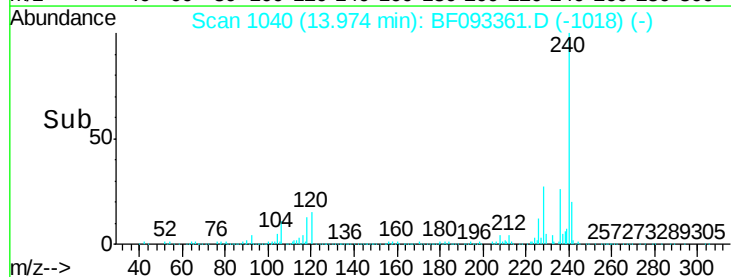
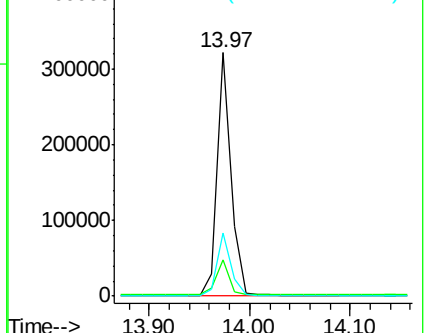
236 26.0 20.9 31.3

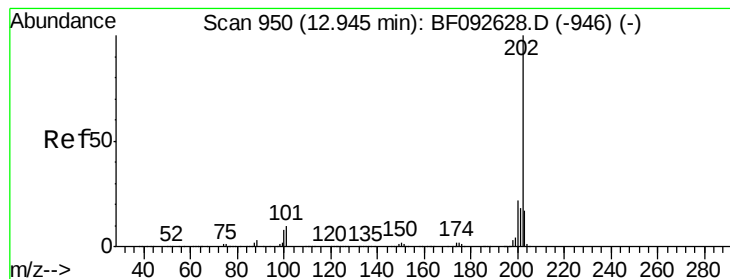


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 25.08 ng

RT: 12.77 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :

BNA_F

ClientSampleId :

HY-SB436ADL

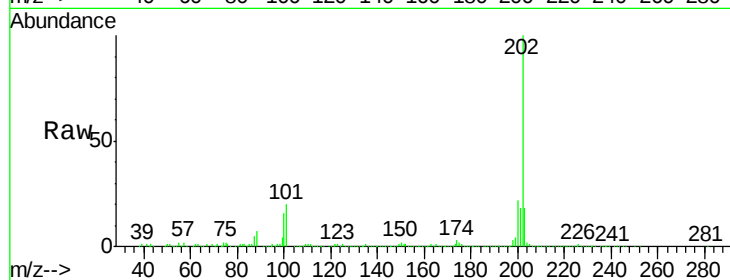
Tot Ion:202 Resp: 581558

Ion Ratio Lower Upper

202 100

200 21.9 17.7 26.5

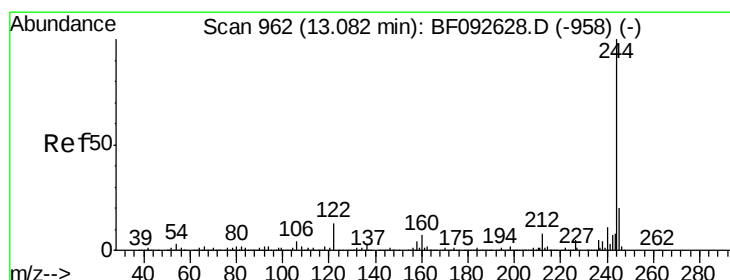
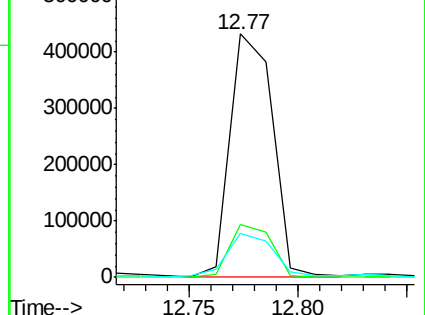
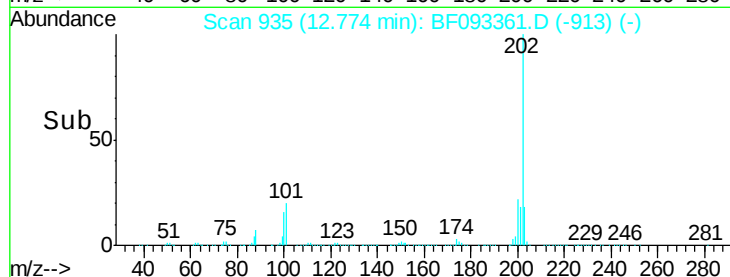
203 18.2 14.7 22.1



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: 12.77 ng

RT: 12.92 min Scan# 948

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

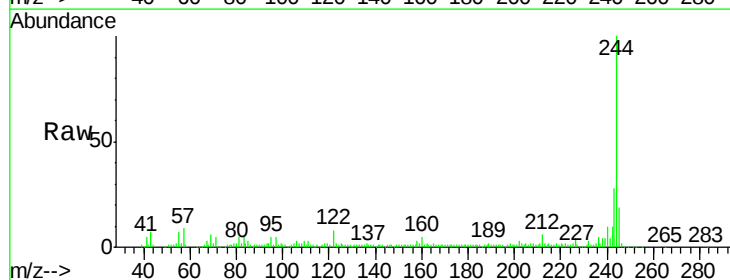
Tgt Ion:244 Resp: 168437

Ion Ratio Lower Upper

244 100

212 6.2 6.2 9.2

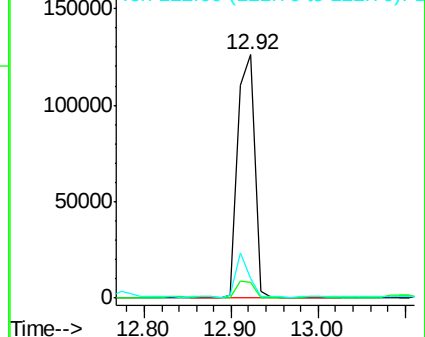
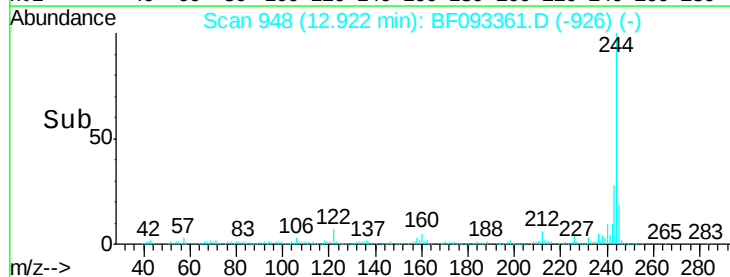
122 8.0 11.4 17.2#

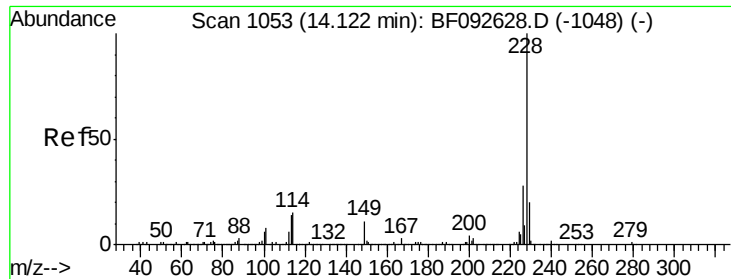


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 13.25 ng

RT: 13.96 min Scan# 1039

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :

BNA_F

ClientSampleId :

HY-SB436ADL

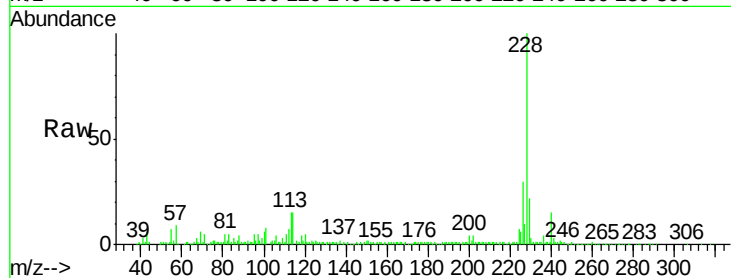
Tot Ion:228 Resp: 251175

Ion Ratio Lower Upper

228 100

226 30.0 22.4 33.6

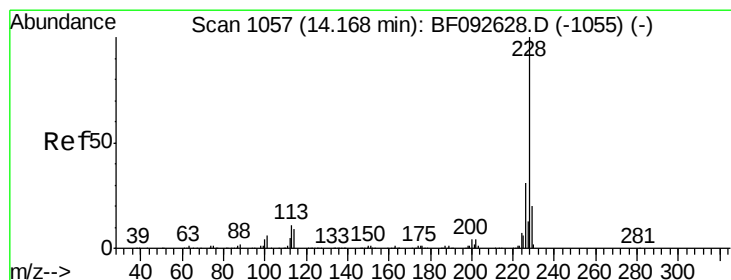
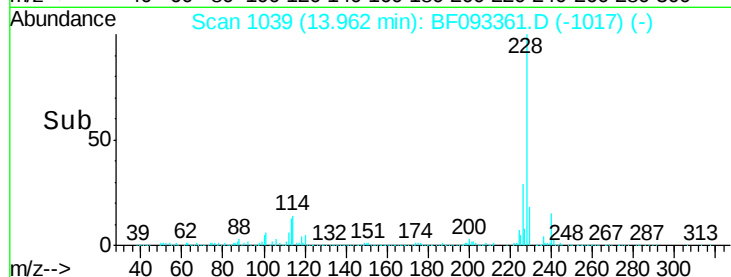
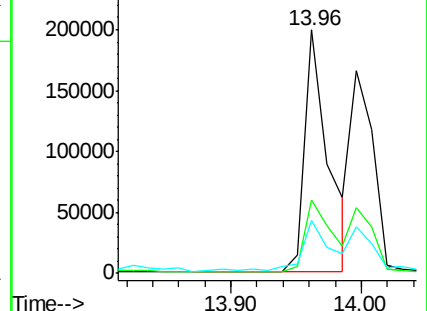
229 21.6 16.2 24.4



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: 11.28 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.05 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

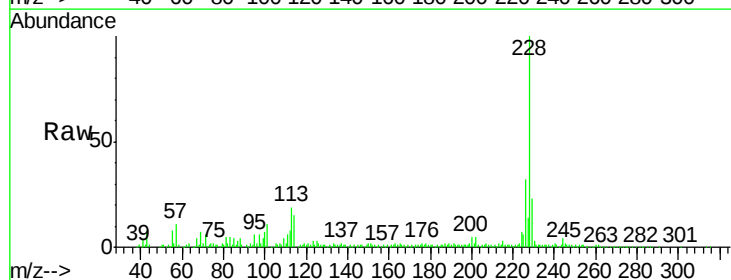
Tgt Ion:228 Resp: 200150

Ion Ratio Lower Upper

228 100

226 32.0 25.4 38.0

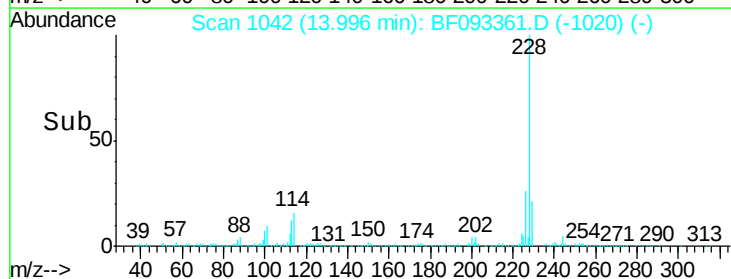
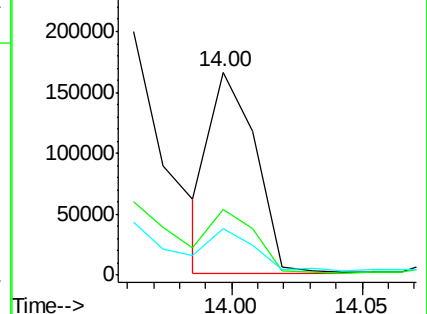
229 22.6 16.2 24.2

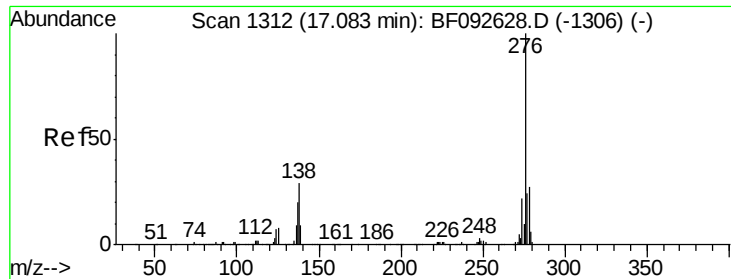


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

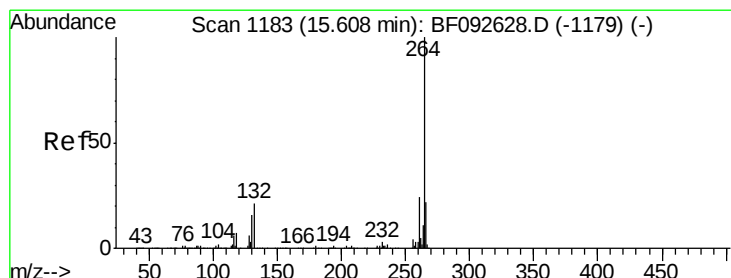
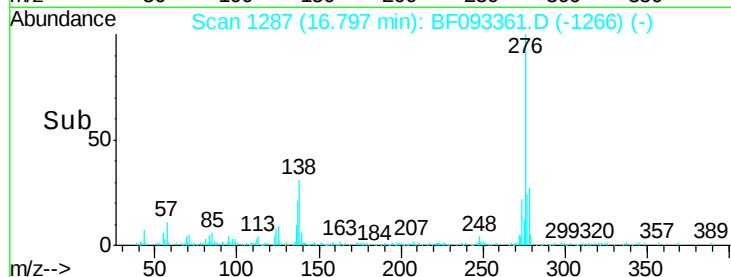
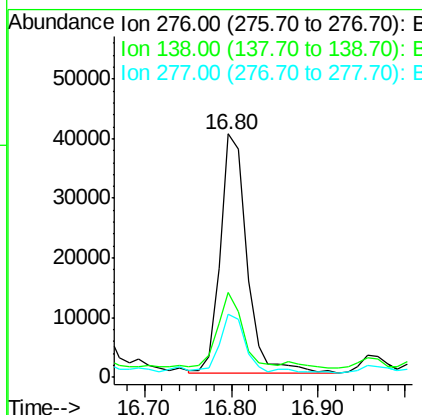
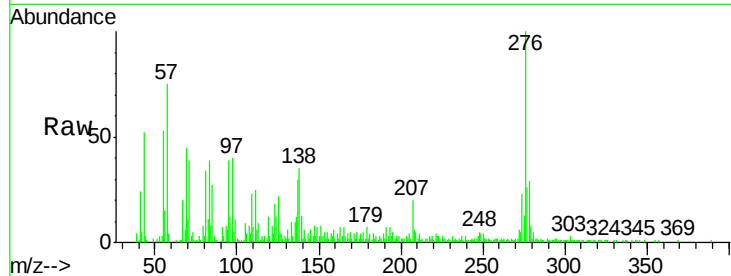




#85
Indeno(1,2,3-cd)pyrene
Concen: 6.23 ng
RT: 16.80 min Scan# 1287
Delta R.T. -0.06 min
Lab File: BF093361.D
Acq: 3 Mar 2017 14:17

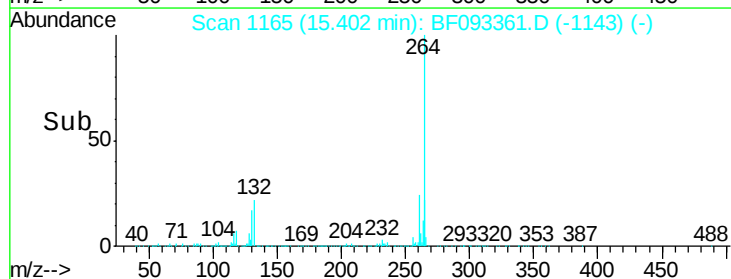
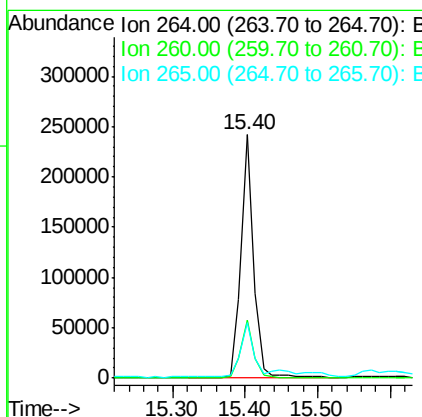
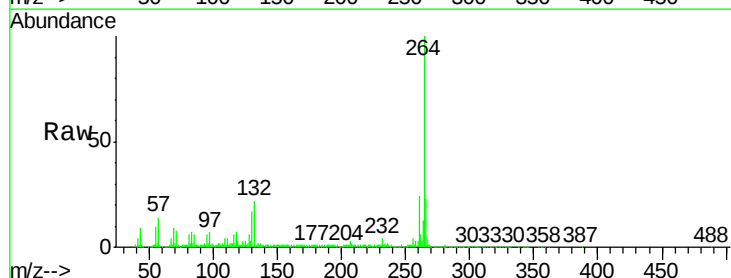
Instrument :
BNA_F
ClientSampleId :
HY-SB436ADL

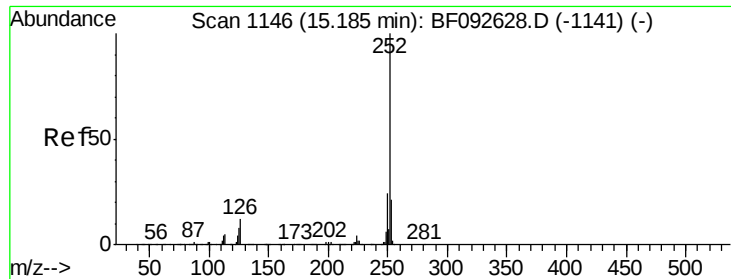
Tot Ion:276 Resp: 85656
Ion Ratio Lower Upper
276 100
138 28.2 21.8 32.6
277 26.1 20.2 30.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1165
Delta R.T. -0.05 min
Lab File: BF093361.D
Acq: 3 Mar 2017 14:17

Tgt Ion:264 Resp: 295629
Ion Ratio Lower Upper
264 100
260 24.1 19.2 28.8
265 22.5 17.4 26.0





#87

Benzo(b)fluoranthene

Concen: 13.50 ng

RT: 15.00 min Scan# 1130

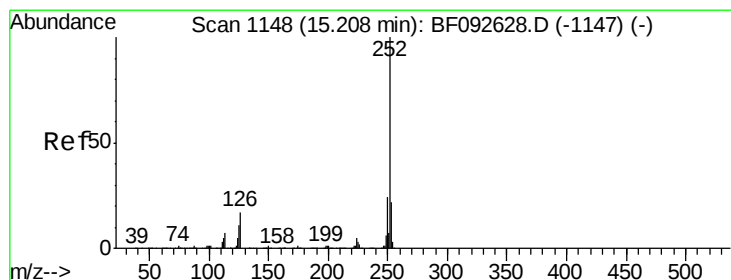
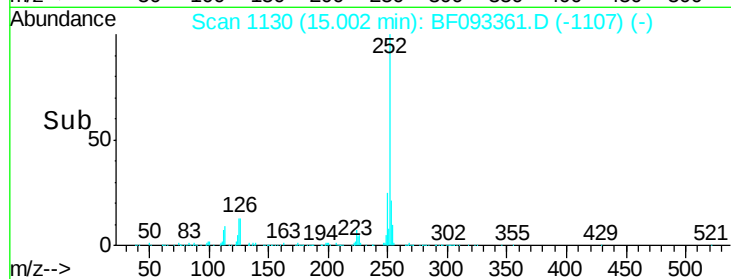
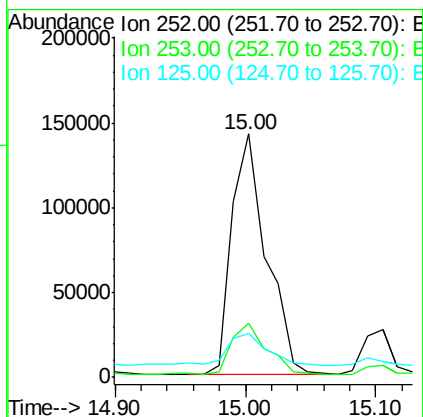
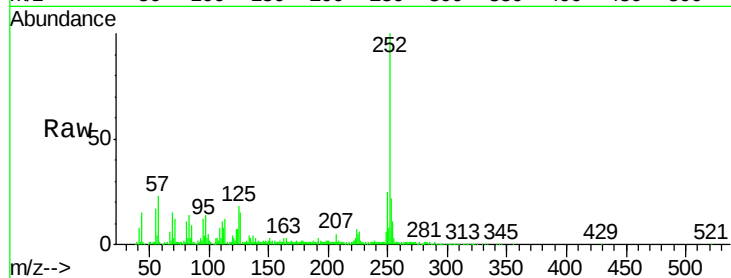
Delta R.T. -0.03 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Instrument :
BNA_F
ClientSampleId :
HY-SB436ADL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.4
125	17.9	9.8	14.6



#88

Benzo(k)fluoranthene

Concen: 15.64 ng

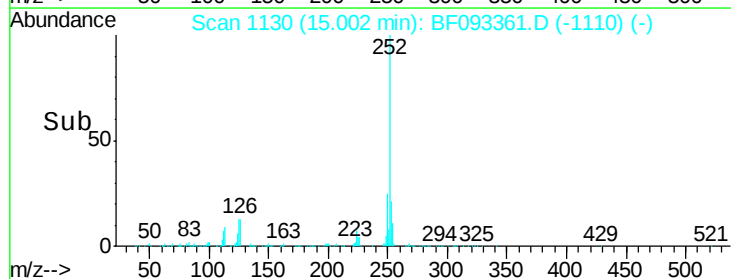
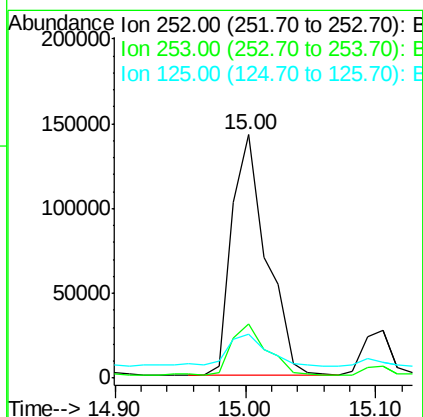
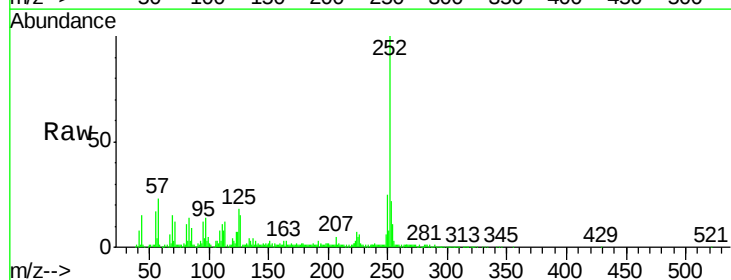
RT: 15.00 min Scan# 1130

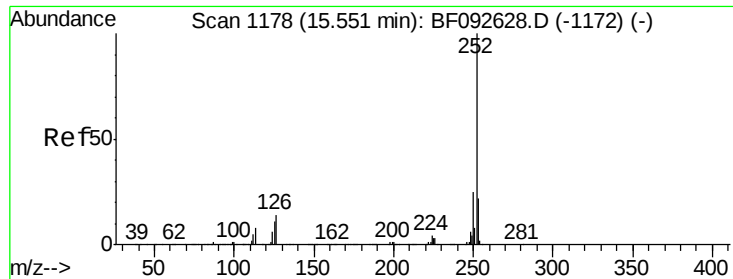
Delta R.T. -0.07 min

Lab File: BF093361.D

Acq: 3 Mar 2017 14:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.5	27.7
125	17.9	8.9	13.3

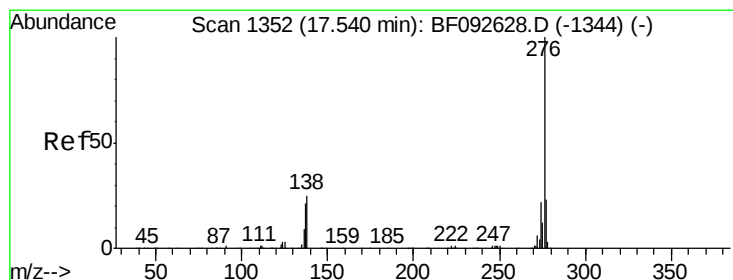
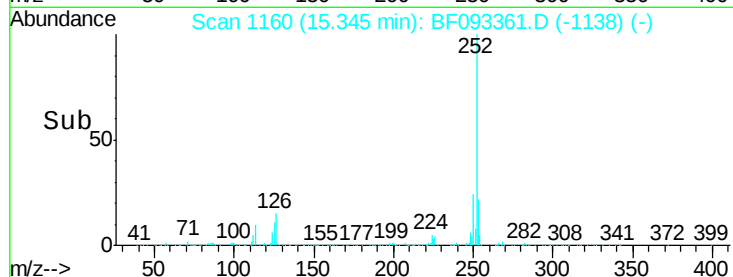
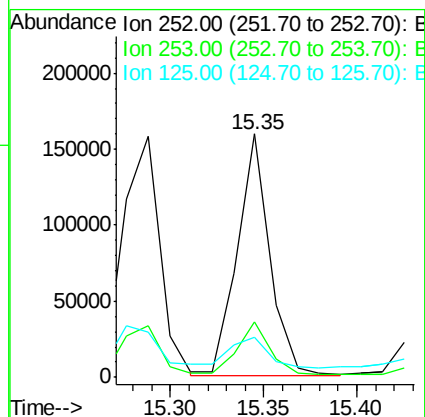
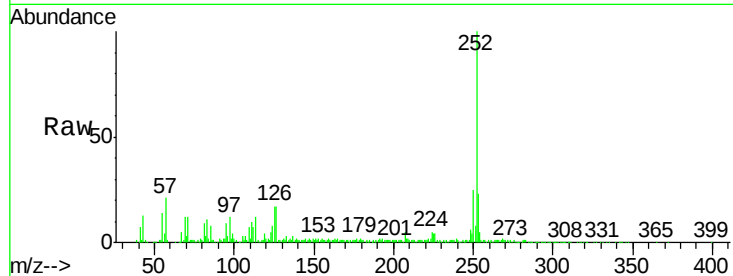




#89
Benzo(a)pyrene
Concen: 11.53 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF093361.D
Acq: 3 Mar 2017 14:17

Instrument :
BNA_F
ClientSampleId :
HY-SB436ADL

Tot Ion:252 Resp: 194108
Ion Ratio Lower Upper
252 100
253 22.8 18.2 27.2
125 16.7 10.0 15.0#



#91
Benzo(g,h,i)perylene
Concen: 8.46 ng
RT: 17.22 min Scan# 1324
Delta R.T. -0.07 min
Lab File: BF093361.D
Acq: 3 Mar 2017 14:17

Tgt Ion:276 Resp: 116202
Ion Ratio Lower Upper
276 100
277 26.1 19.2 28.8
138 31.7 16.0 24.0#

