

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022817\
 Data File : BF093242.D
 Acq On : 28 Feb 2017 12:18
 Operator : SJ/MA
 Sample : I1992-03
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 28 13:05:23 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	6.81	152	131625	20.00	ng	-0.05
21) Naphthalene-d8	8.09	136	553524	20.00	ng	-0.06
38) Acenaphthene-d10	9.84	164	253317	20.00	ng	-0.06
63) Phenanthrene-d10	11.32	188	461619	20.00	ng	-0.06
75) Chrysene-d12	13.96	240	299898	20.00	ng	-0.06
86) Perylene-d12	15.39	264	285755	20.00	ng	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	1240457	161.68	ng	-0.03
7) Phenol-d6	6.46	99	1687184	170.91	ng	-0.02
23) Nitrobenzene-d5	7.38	82	1066918	107.34	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	268550	146.58	ng	-0.05
44) 2-Fluorobiphenyl	9.16	172	1489107	106.50	ng	-0.06
78) Terphenyl-d14	12.91	244	1193658	93.52	ng	-0.06

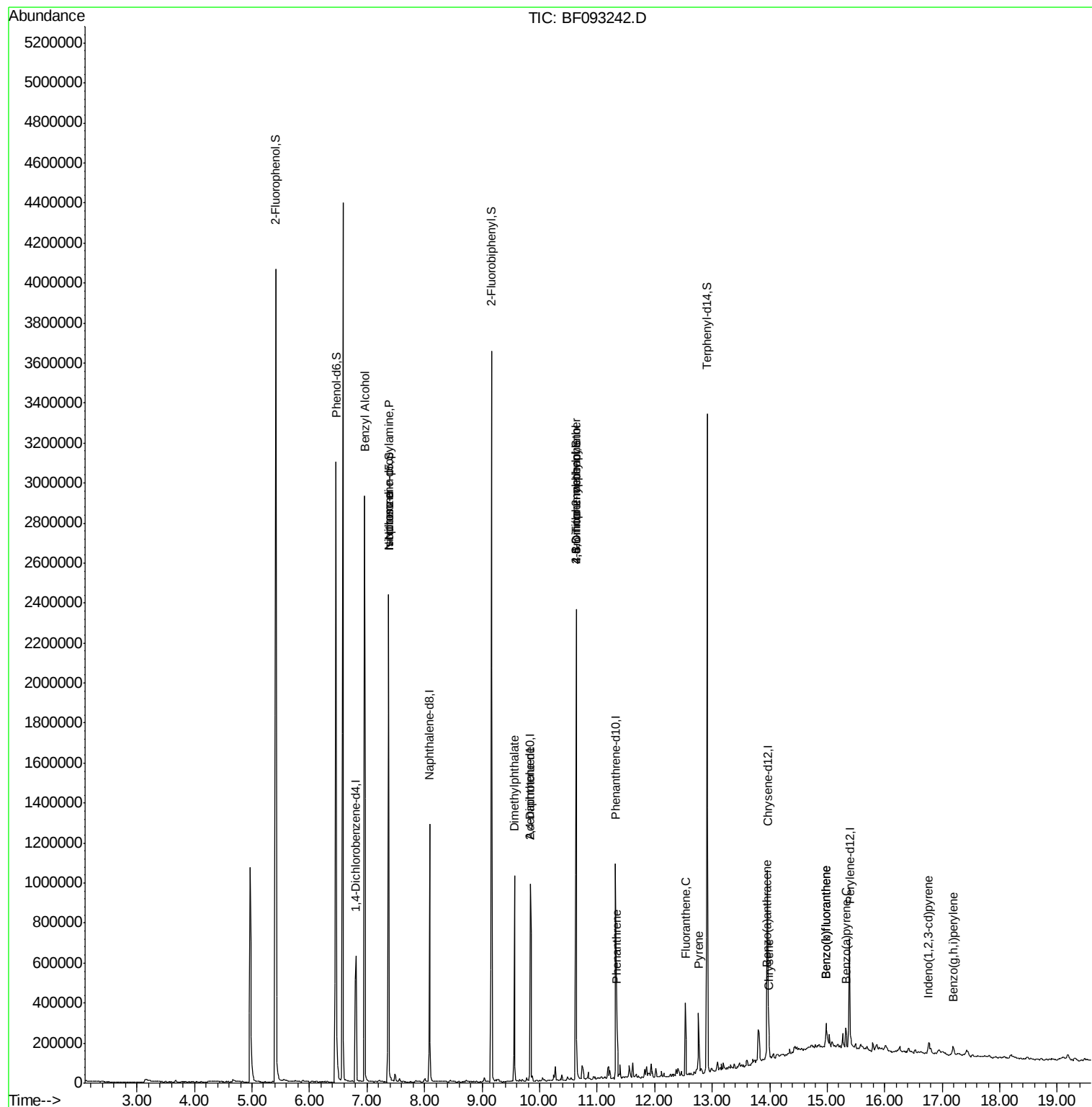
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Benzyl Alcohol	6.96	79	15514	2.12	ng	# 40
19) n-Nitroso-di-n-propylamine	7.38	70	139879	22.26	ng	# 74
25) Isophorone	7.38	82	1034289	55.84	ng	# 65
49) Dimethylphthalate	9.56	163	384761	22.55	ng	99
56) 2,4-Dinitrotoluene	9.84	165	32334	6.59	ng	# 20
64) 4,6-Dinitro-2-methylphenol	10.64	198	763	2.93	ng	# 1
66) 4-Bromophenyl-phenylether	10.64	248	21083	4.37	ng	# 1
70) Phenanthrene	11.34	178	107573	4.07	ng	97
74) Fluoranthene	12.53	202	162645	5.96	ng	96
77) Pyrene	12.76	202	142388	6.34	ng	100
80) Benzo(a)anthracene	13.95	228	63332	3.45	ng	99
82) Chrysene	13.99	228	45506	2.65	ng	99
85) Indeno(1,2,3-cd)pyrene	16.76	276	30098	2.26	ng	97
87) Benzo(b)fluoranthene	14.98	252	81824	4.35	ng	# 94
88) Benzo(k)fluoranthene	14.98	252	82141	5.06	ng	# 94
89) Benzo(a)pyrene	15.32	252	43535	2.68	ng	# 89
91) Benzo(a,h,i)perylene	17.19	276	31633	2.38	ng	# 85

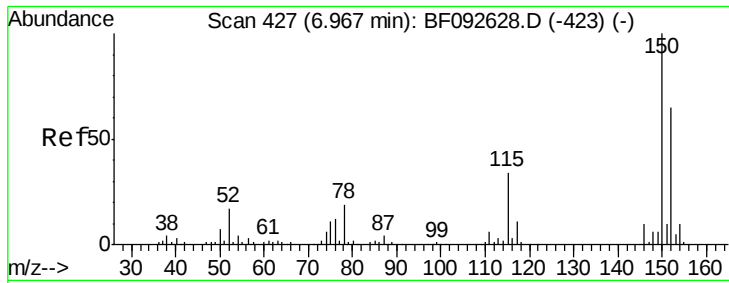
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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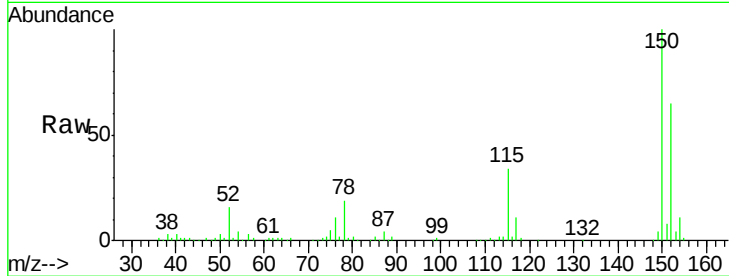


#1

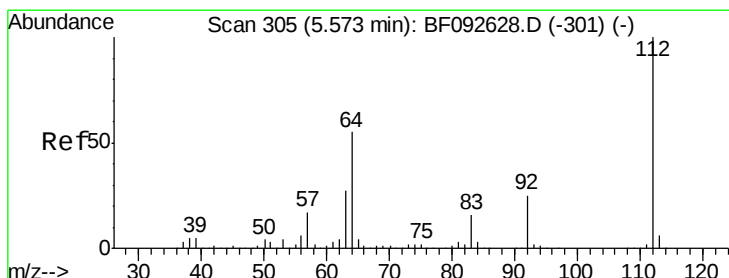
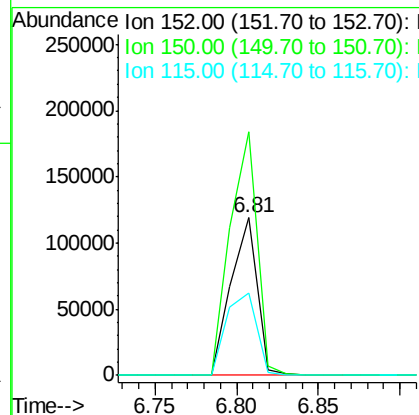
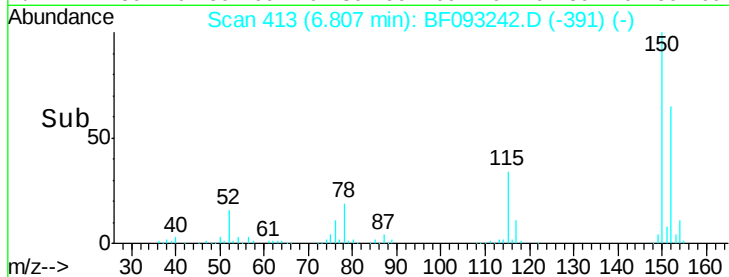
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.81 min Scan# 413
Delta R.T. -0.05 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 131625
Ion Ratio Lower Upper
152 100
150 154.8 124.9 187.3
115 52.7 46.0 69.0



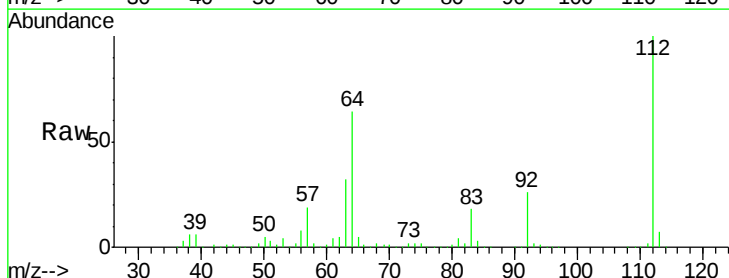
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



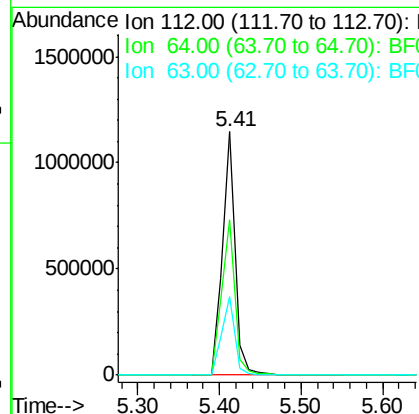
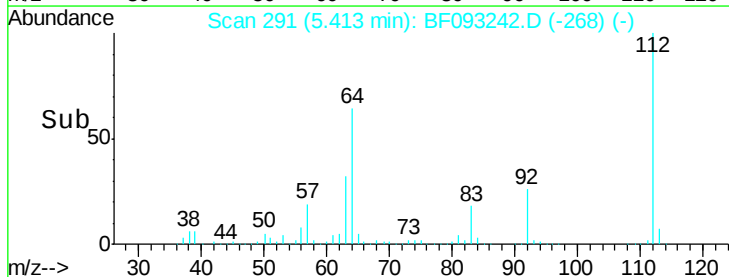
#5

2-Fluorophenol
Concen: 161.68 ng
RT: 5.41 min Scan# 291
Delta R.T. -0.03 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Tgt Ion:112 Resp: 1240457
Ion Ratio Lower Upper
112 100
64 63.6 46.1 69.1
63 32.0 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: 170.91 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

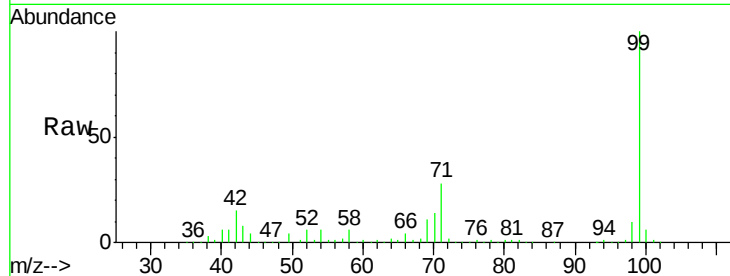
Instrument :

BNA_F

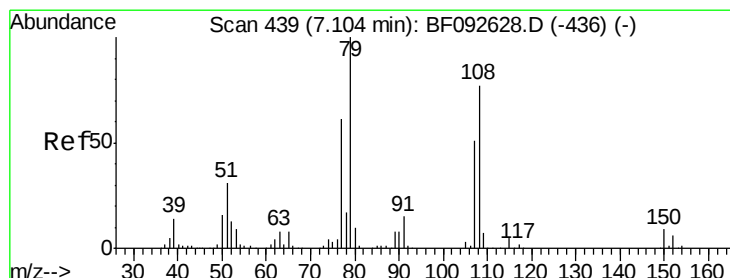
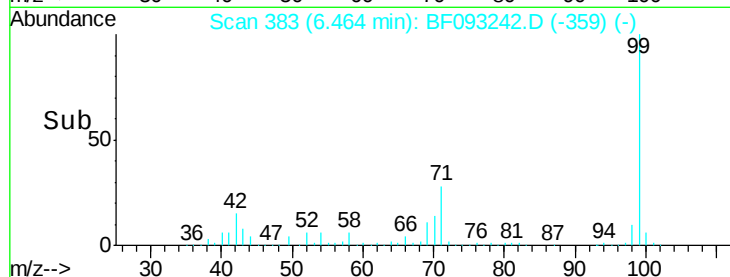
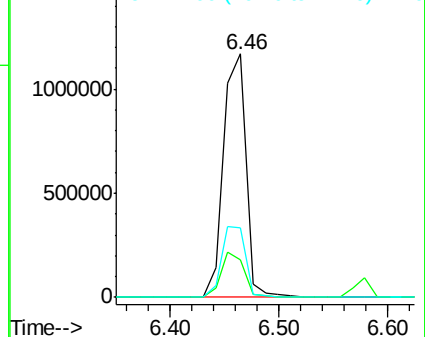
ClientSampleId :

Tot Ion: 99 Resp: 1687184

Ion	Ratio	Lower	Upper
99	100		
42	15.5	15.6	23.4#
71	28.5	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



#15

Benzyl Alcohol

Concen: 2.12 ng

RT: 6.96 min Scan# 426

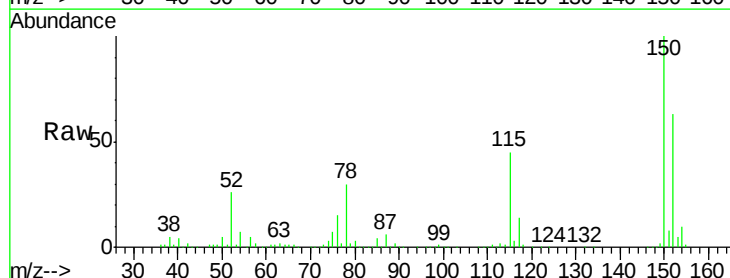
Delta R.T. -0.05 min

Lab File: BF093242.D

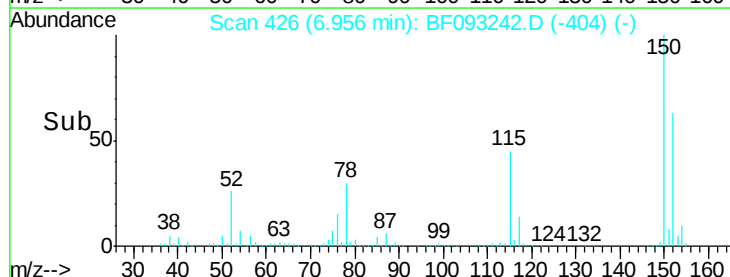
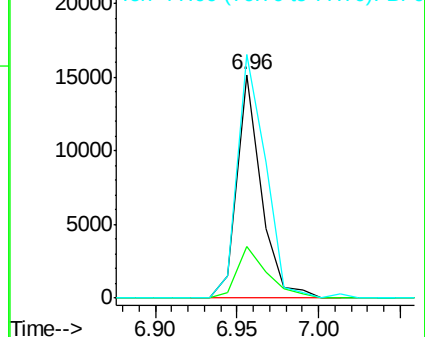
Acq: 28 Feb 2017 12:18

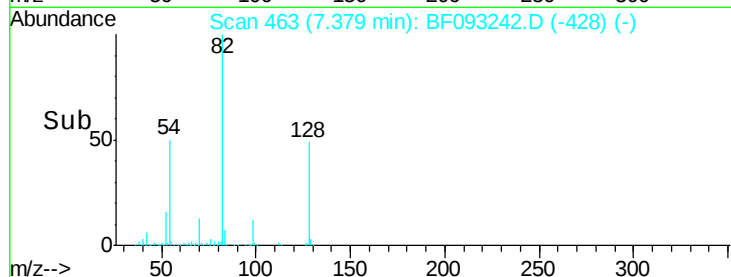
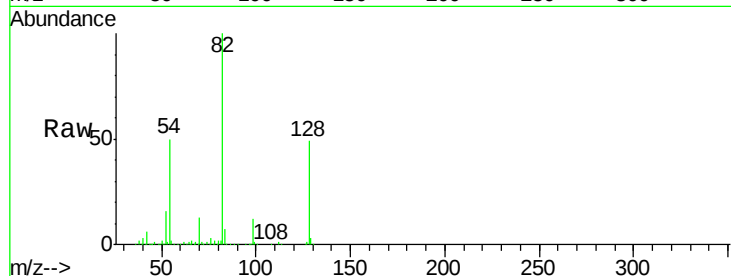
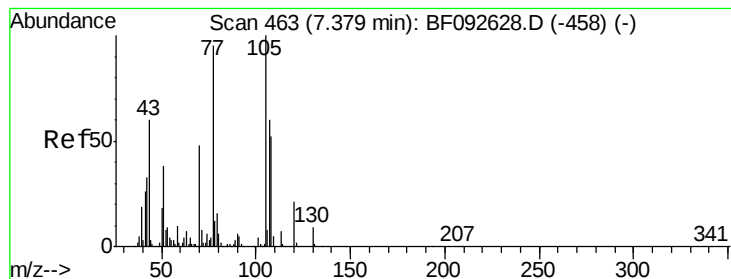
Tgt Ion: 79 Resp: 15514

Ion	Ratio	Lower	Upper
79	100		
108	23.1	61.4	92.0#
77	108.9	50.9	76.3#



Abundance Ion 79.00 (78.70 to 79.70): BF0
Ion 108.00 (107.70 to 108.70): BF0
Ion 77.00 (76.70 to 77.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 22.26 ng

RT: 7.38 min Scan# 463

Delta R.T. 0.10 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 139879

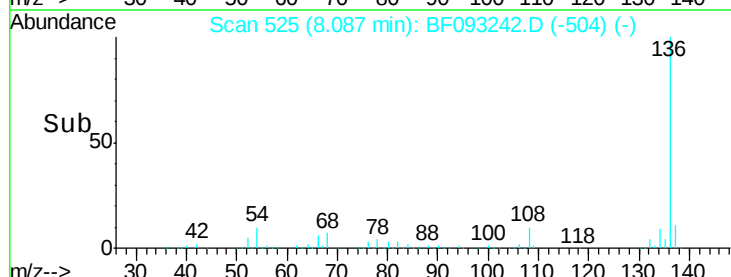
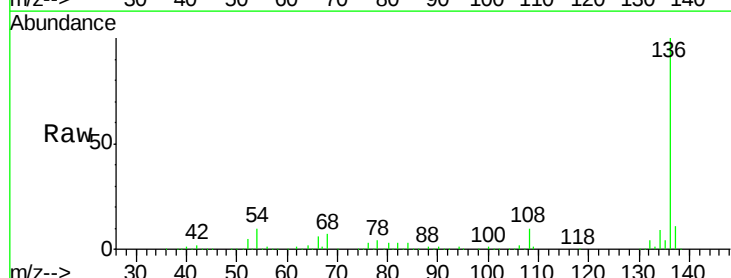
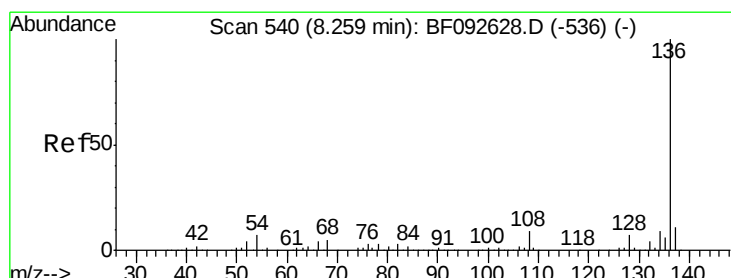
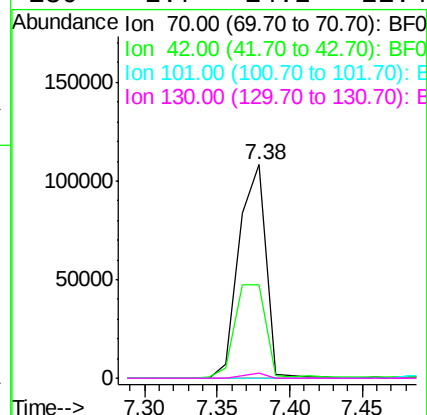
Ion Ratio Lower Upper

70 100

42 43.9 49.4 74.0#

101 0.0 7.4 11.2#

130 2.7 14.2 21.4#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 525

Delta R.T. -0.06 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

Tgt Ion: 136 Resp: 553524

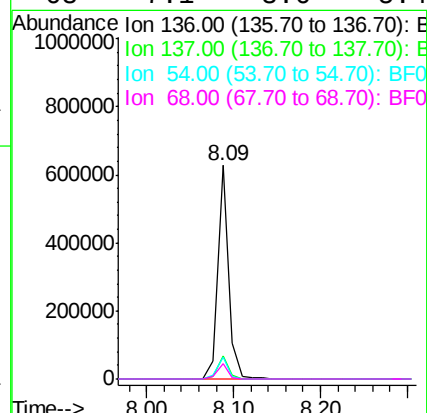
Ion Ratio Lower Upper

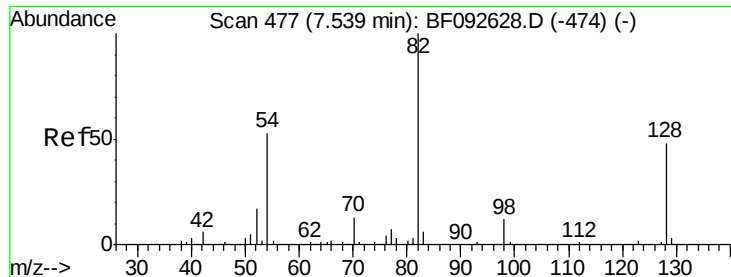
136 100

137 11.1 8.4 12.6

54 10.4 4.5 6.7#

68 7.1 3.6 5.4#

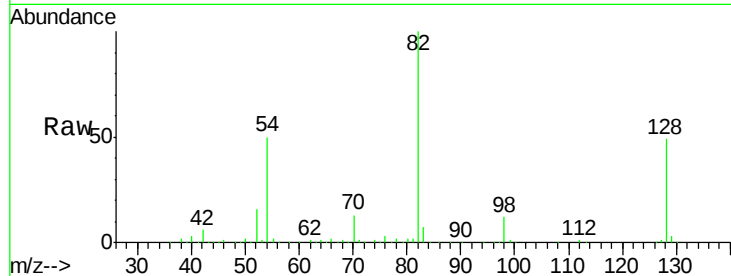




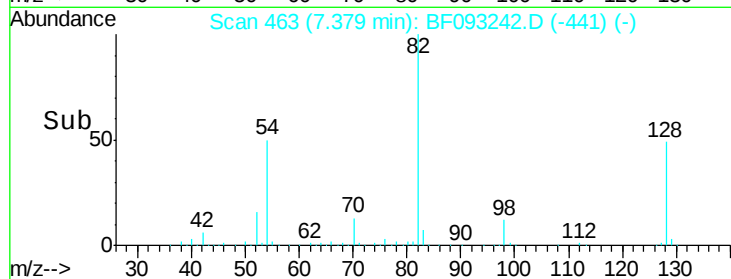
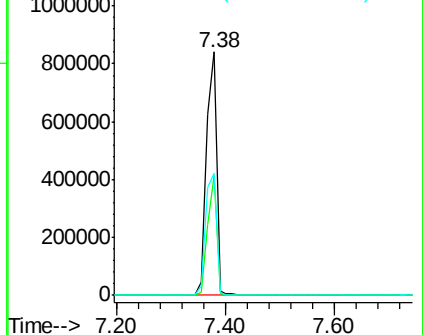
#23
Nitrobenzene-d5
Concen: 107.34 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.05 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 1066918
Ion Ratio Lower Upper
82 100
128 49.1 34.6 52.0
54 50.3 39.5 59.3

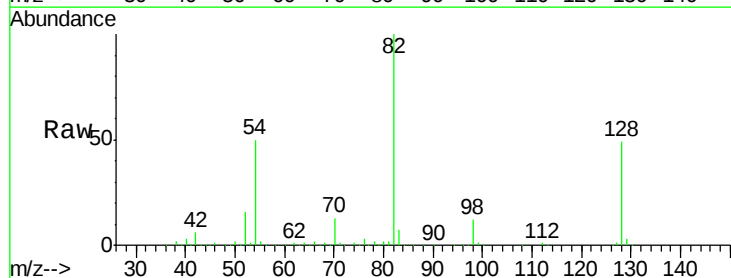


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

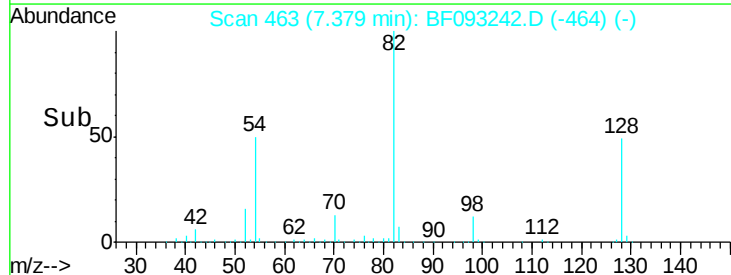
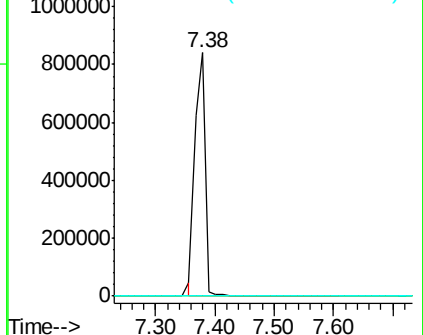


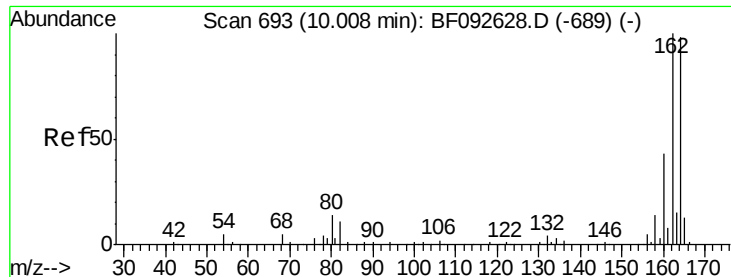
#25
Isophorone
Concen: 55.84 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.31 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Tgt Ion: 82 Resp: 1034289
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): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.06 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

Instrument :

BNA_F

ClientSampleId :

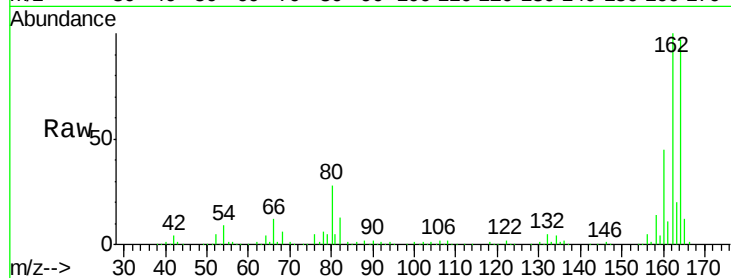
Tot Ion:164 Resp: 253317

Ion Ratio Lower Upper

164 100

162 102.7 80.2 120.2

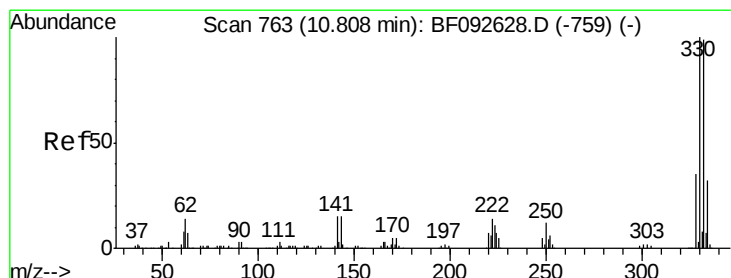
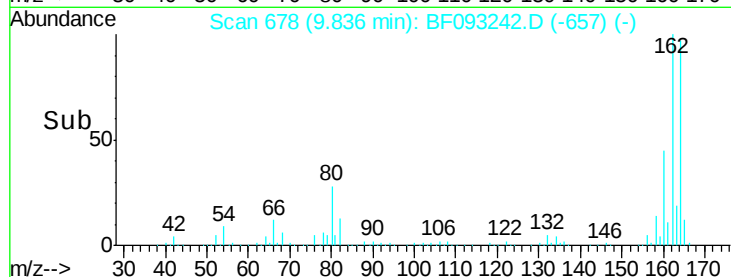
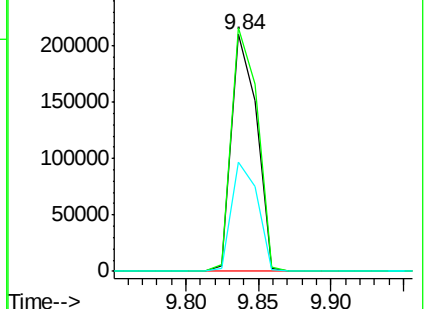
160 46.0 36.9 55.3



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: 146.58 ng

RT: 10.64 min Scan# 748

Delta R.T. -0.05 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

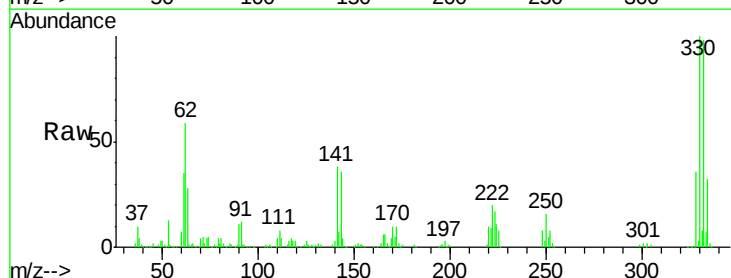
Tgt Ion:330 Resp: 268550

Ion Ratio Lower Upper

330 100

332 98.5 77.4 116.2

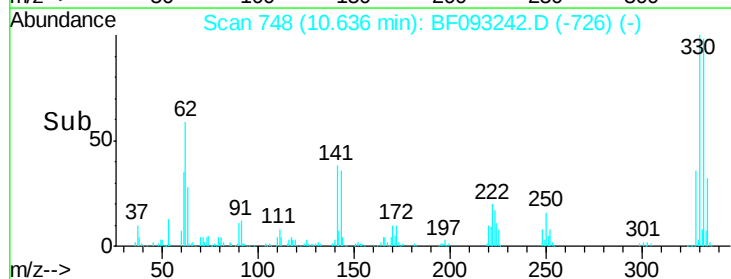
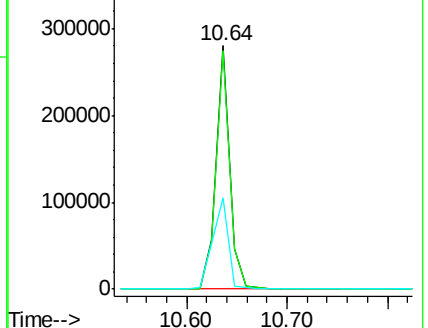
141 42.7 34.1 51.1



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

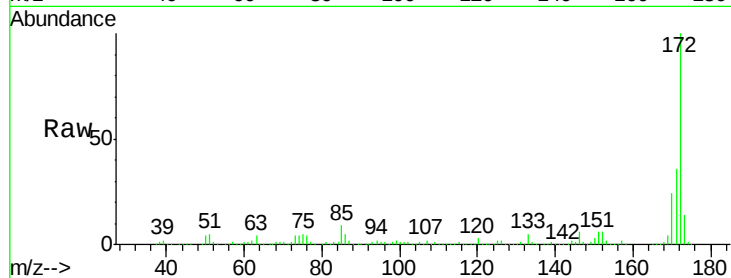




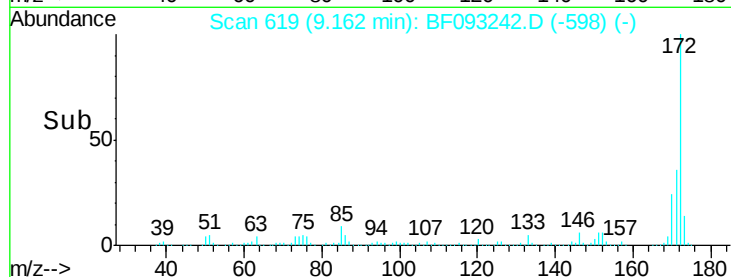
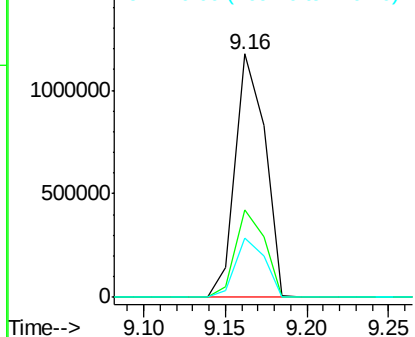
#44
2-Fluorobiphenyl
Concen: 106.50 ng
RT: 9.16 min Scan# 619
Delta R.T. -0.06 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1489107
Ion Ratio Lower Upper
172 100
171 36.2 29.4 44.0
170 24.5 20.2 30.4

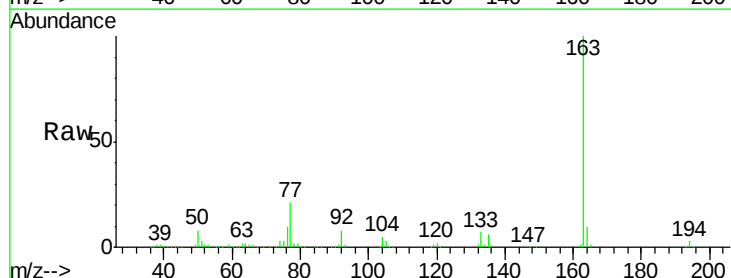


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

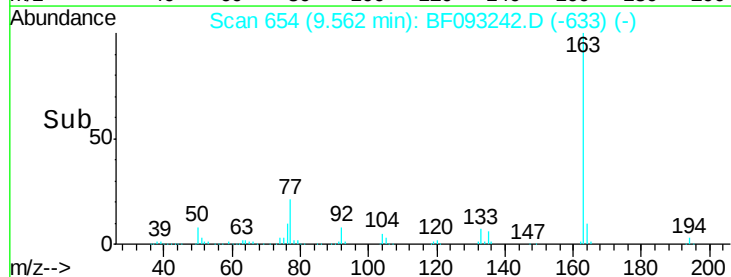
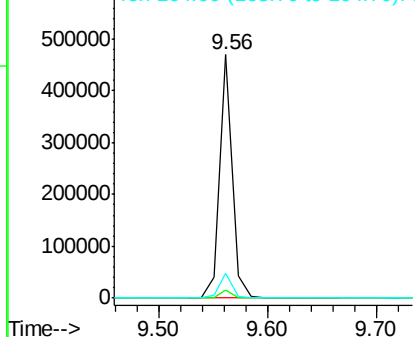


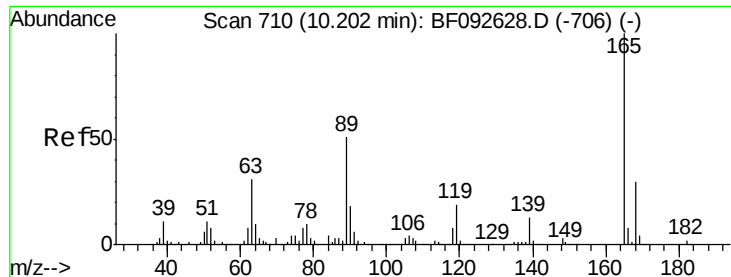
#49
Dimethylphthalate
Concen: 22.55 ng
RT: 9.56 min Scan# 654
Delta R.T. -0.06 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Tgt Ion:163 Resp: 384761
Ion Ratio Lower Upper
163 100
194 3.3 3.0 4.4
164 10.3 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

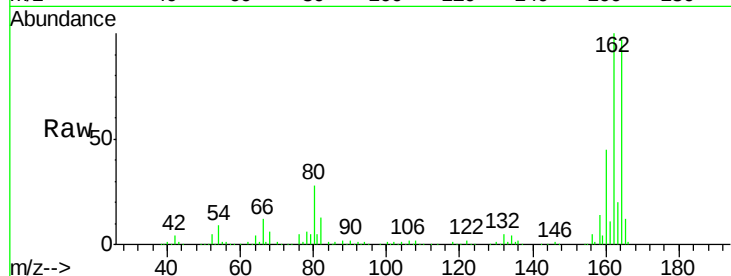




#56
 2,4-Dinitrotoluene
 Concen: 6.59 ng
 RT: 9.84 min Scan# 678
 Delta R.T. -0.25 min
 Lab File: BF093242.D
 Acq: 28 Feb 2017 12:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	40.2	60.4#
89	1.7	62.5	93.7#
182	0.0	1.8	2.8#

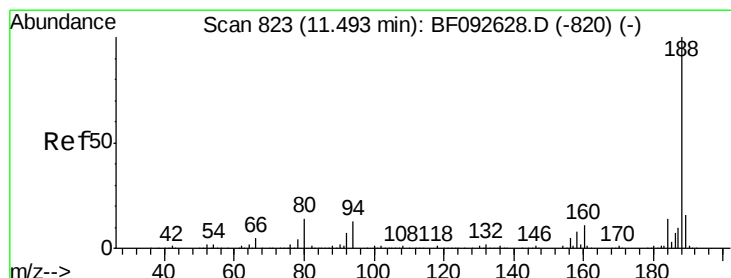
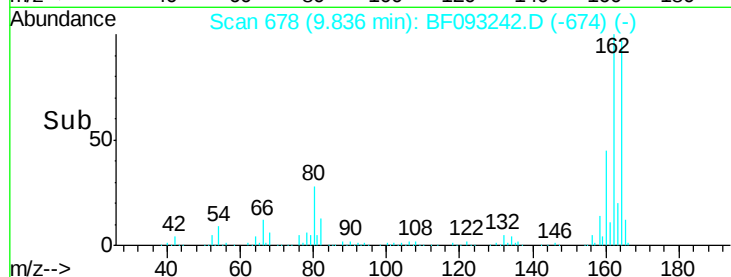
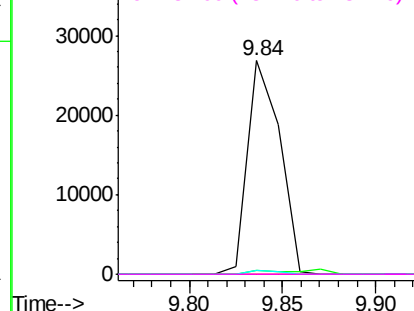


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

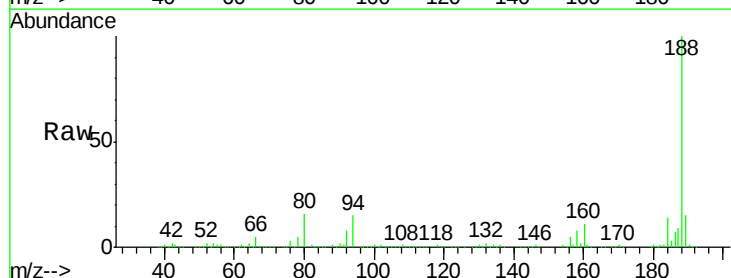
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.32 min Scan# 808
 Delta R.T. -0.06 min
 Lab File: BF093242.D
 Acq: 28 Feb 2017 12:18

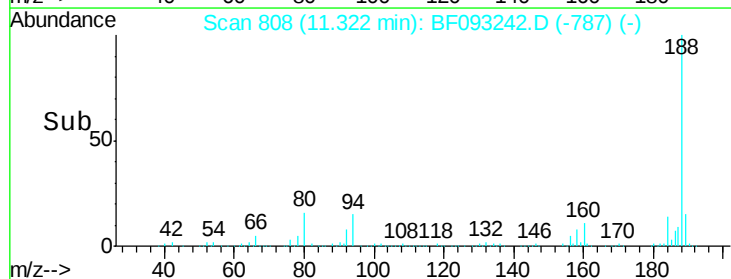
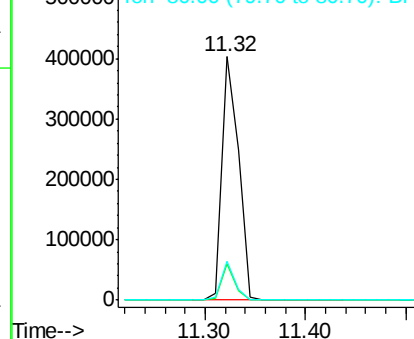
Tgt Ion	Ratio	Lower	Upper
188	100		
94	14.9	10.0	15.0
80	16.0	11.2	16.8

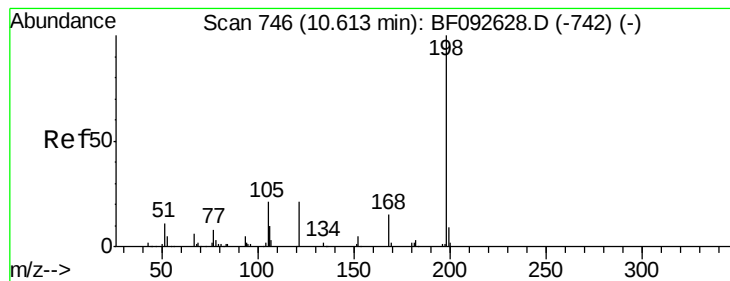


Abundance Ion 188.00 (187.70 to 188.70): E

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: 2.93 ng

RT: 10.64 min Scan# 748

Delta R.T. 0.14 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

Instrument :

BNA_F

ClientSampleId :

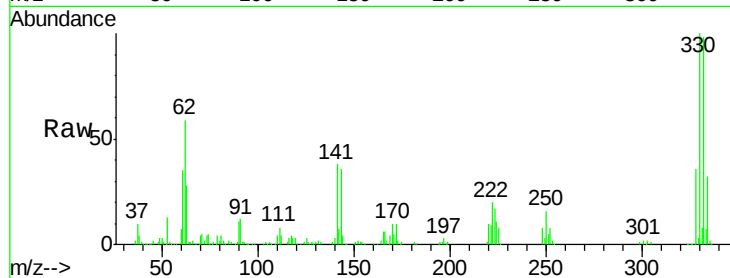
Tot Ion:198 Resp: 763

Ion Ratio Lower Upper

198 100

51 191.2 6.7 46.7#

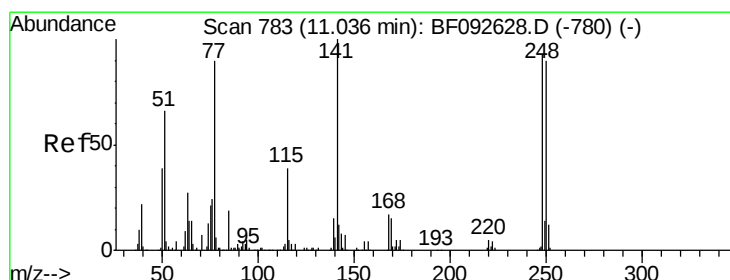
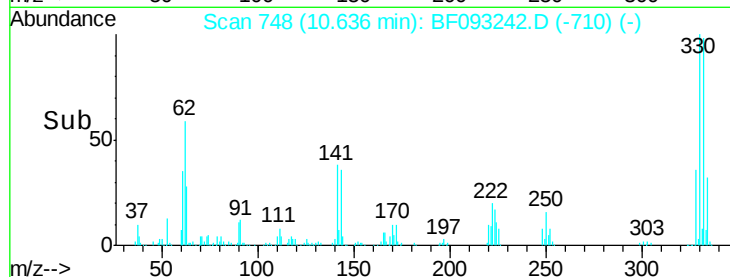
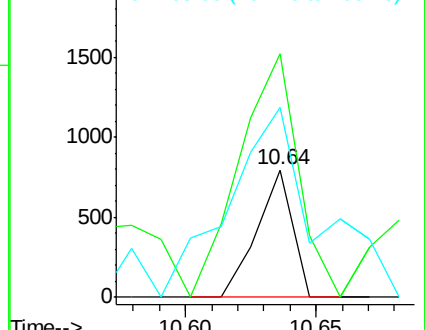
105 149.4 16.6 56.6#



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



#66

4-Bromophenyl-phenylether

Concen: 4.37 ng

RT: 10.64 min Scan# 748

Delta R.T. -0.29 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

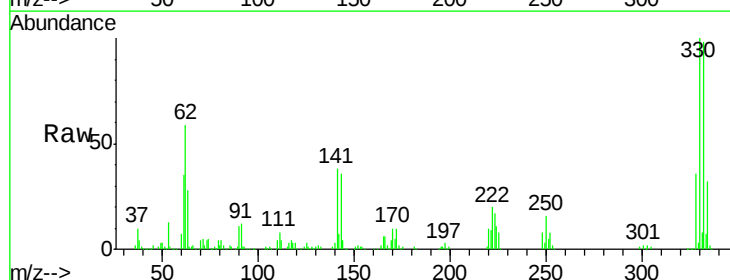
Tgt Ion:248 Resp: 21083

Ion Ratio Lower Upper

248 100

250 196.3 76.9 115.3#

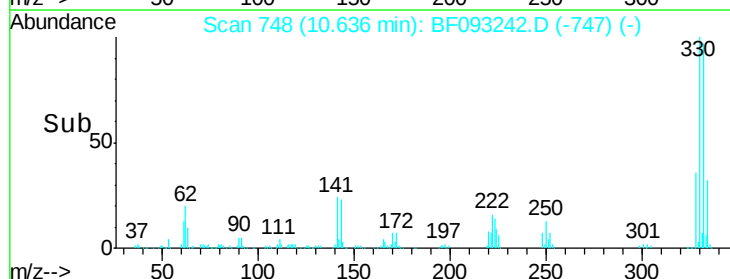
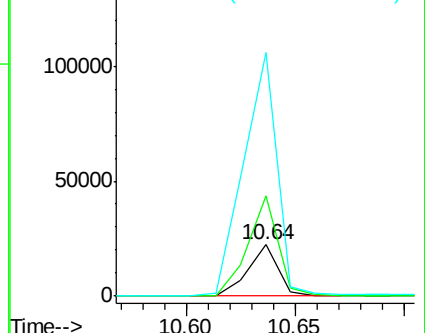
141 474.9 68.2 102.4#

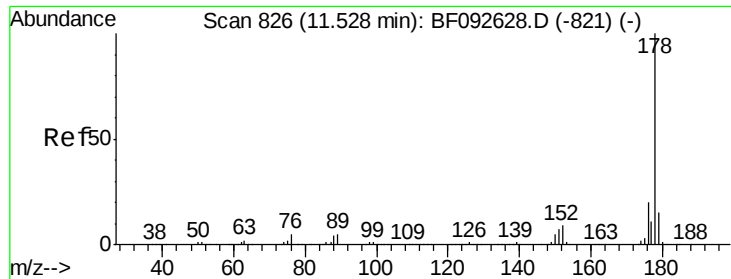


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

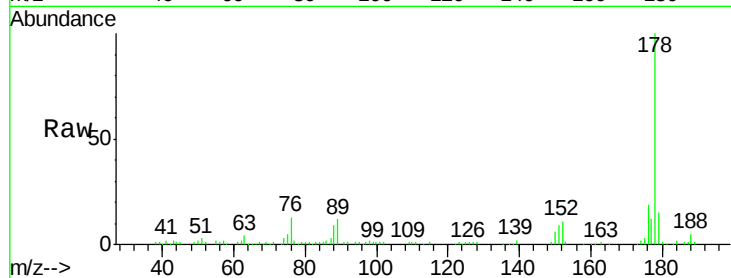




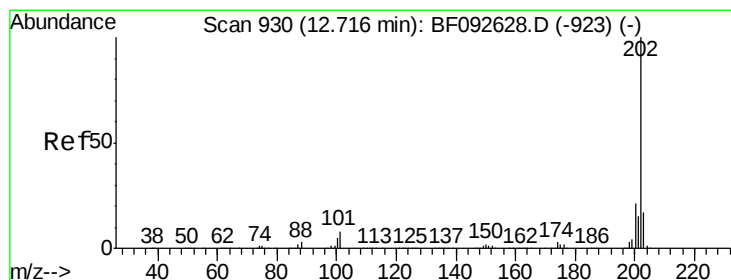
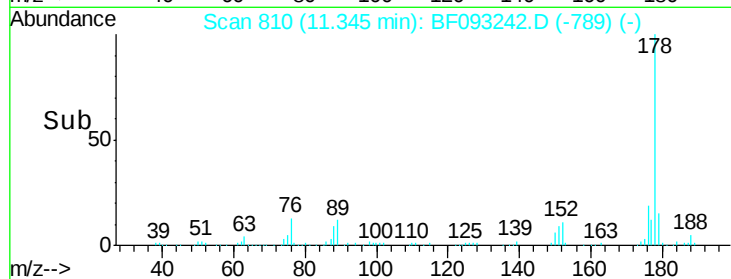
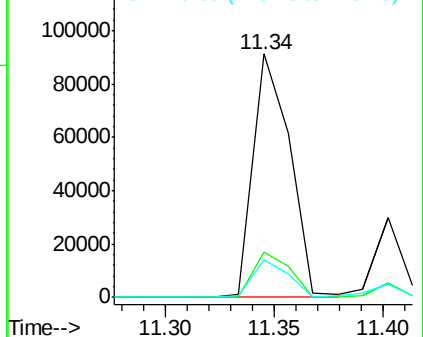
#70
Phenanthrene
Concen: 4.07 ng
RT: 11.34 min Scan# 810
Delta R.T. -0.06 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 107573
Ion Ratio Lower Upper
178 100
176 18.8 16.6 25.0
179 15.3 12.8 19.2

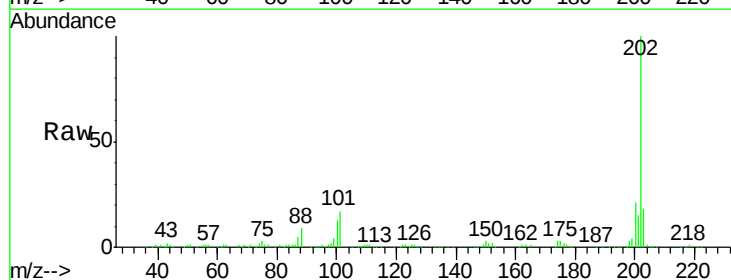


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

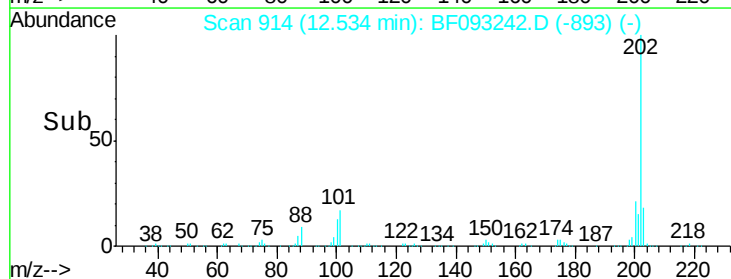
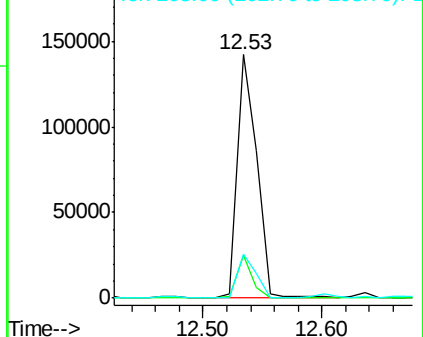


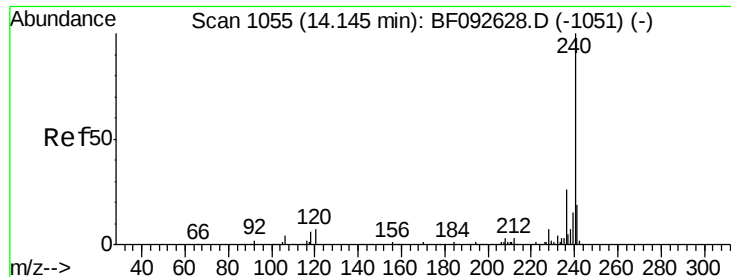
#74
Fluoranthene
Concen: 5.96 ng
RT: 12.53 min Scan# 914
Delta R.T. -0.06 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Tgt Ion:202 Resp: 162645
Ion Ratio Lower Upper
202 100
101 17.3 0.0 34.6
203 17.9 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: 13.96 min Scan# 1039

Delta R.T. -0.06 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

Instrument :

BNA_F

ClientSampleId :

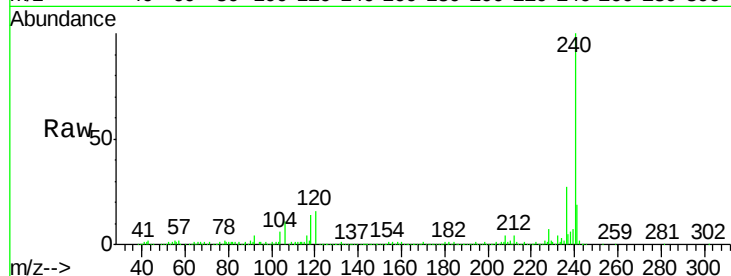
Tot Ion:240 Resp: 299898

Ion Ratio Lower Upper

240 100

120 16.1 12.9 19.3

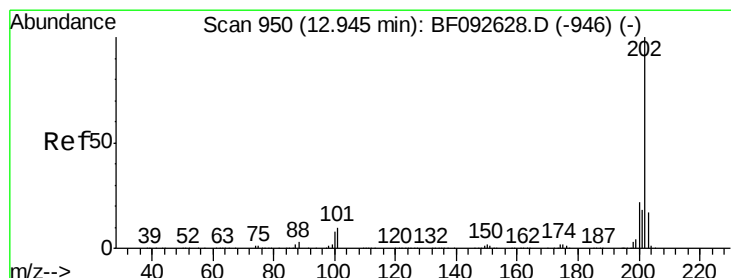
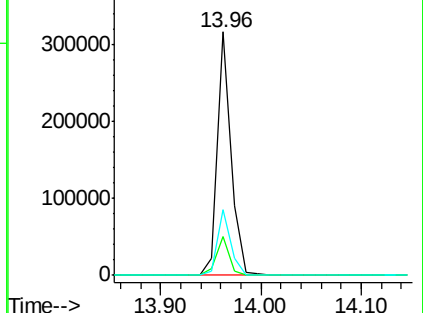
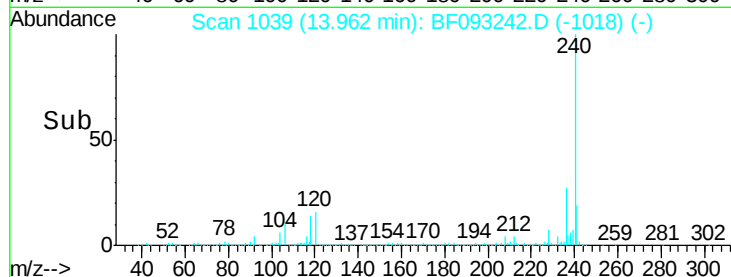
236 26.9 20.9 31.3



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

Pyrene

Concen: 6.34 ng

RT: 12.76 min Scan# 934

Delta R.T. -0.06 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

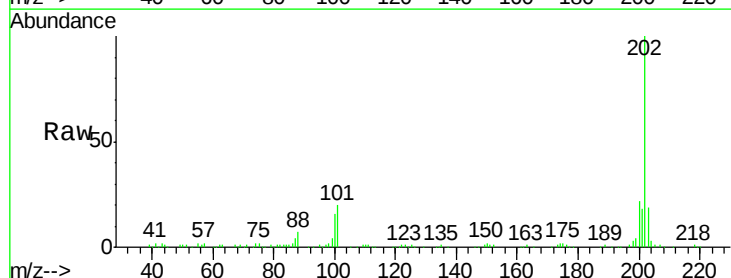
Tgt Ion:202 Resp: 142388

Ion Ratio Lower Upper

202 100

200 21.8 17.7 26.5

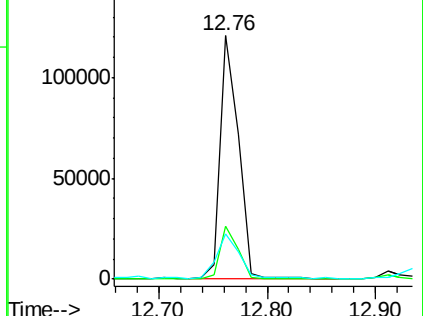
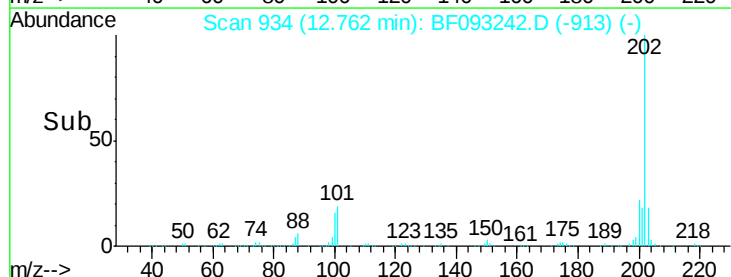
203 18.6 14.7 22.1

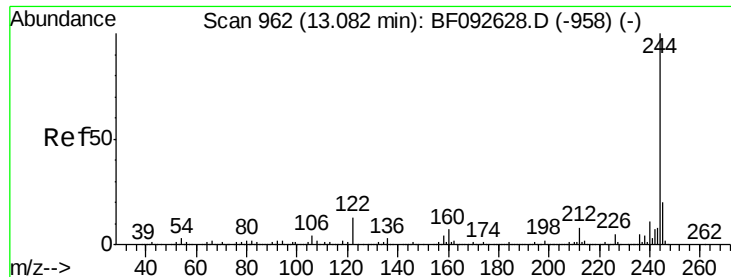


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 93.52 ng

RT: 12.91 min Scan# 947

Delta R.T. -0.06 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

Instrument :

BNA_F

ClientSampleId :

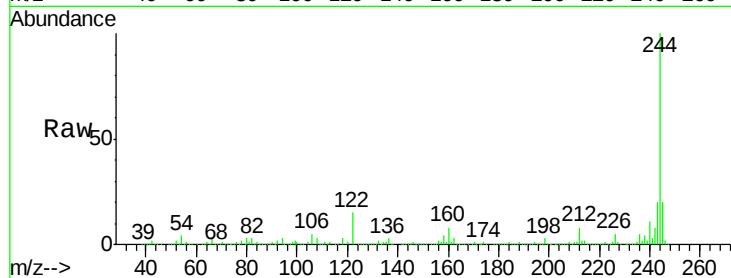
Tot Ion:244 Resp: 1193658

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

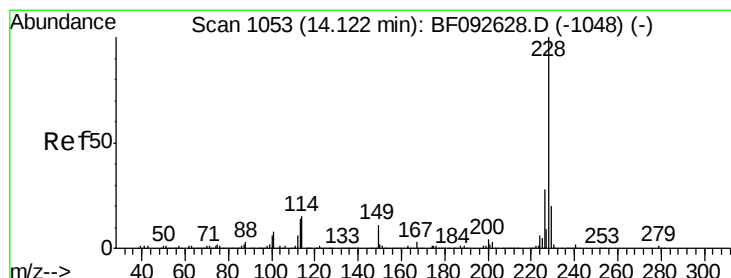
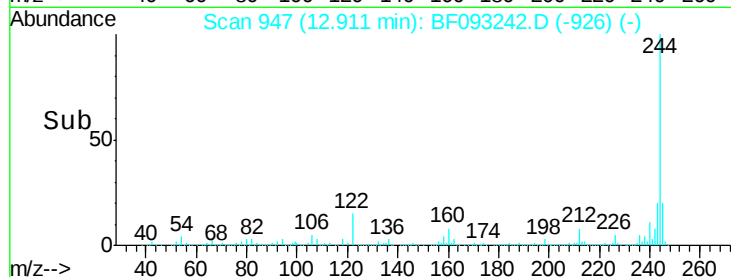
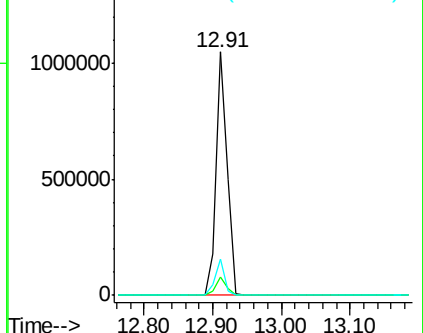
122 14.9 11.4 17.2



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: 3.45 ng

RT: 13.95 min Scan# 1038

Delta R.T. -0.06 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

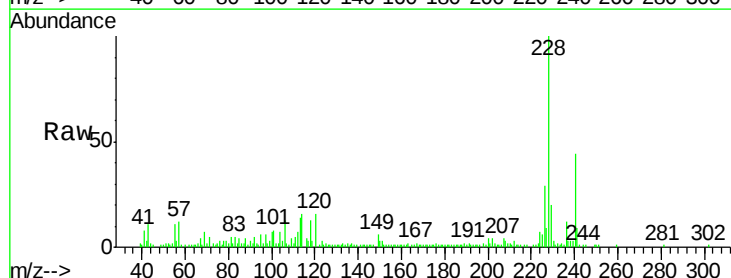
Tgt Ion:228 Resp: 63332

Ion Ratio Lower Upper

228 100

226 29.0 22.4 33.6

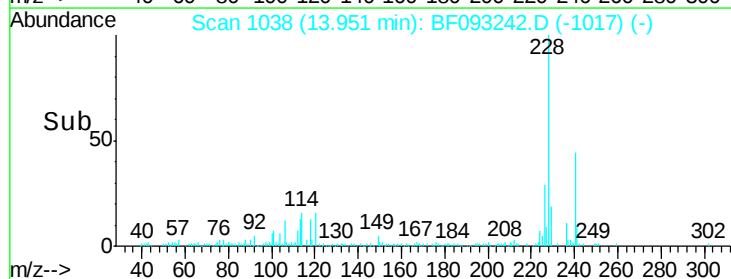
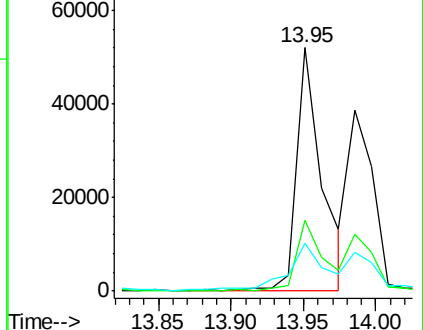
229 19.8 16.2 24.4

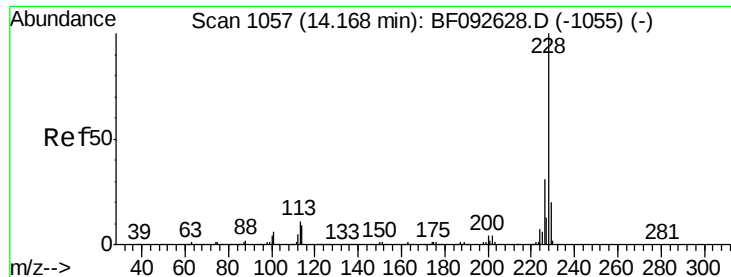


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.65 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.06 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

Instrument :

BNA_F

ClientSampleId :

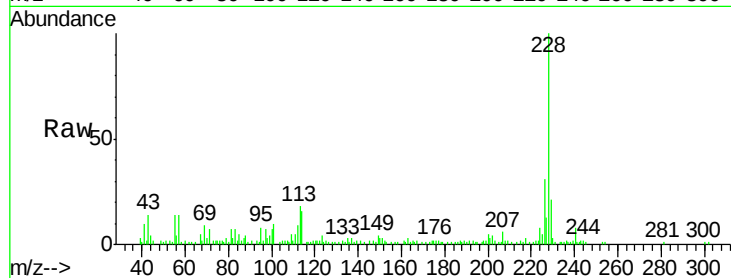
Tot Ion:228 Resp: 45506

Ion Ratio Lower Upper

228 100

226 31.2 25.4 38.0

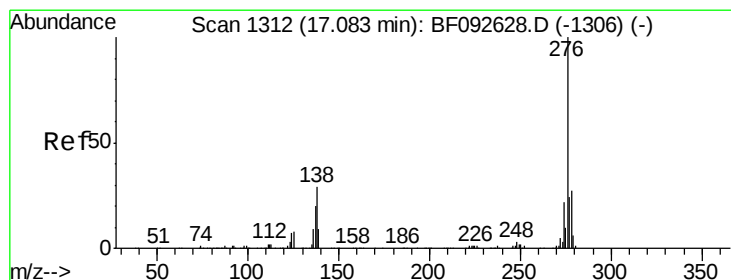
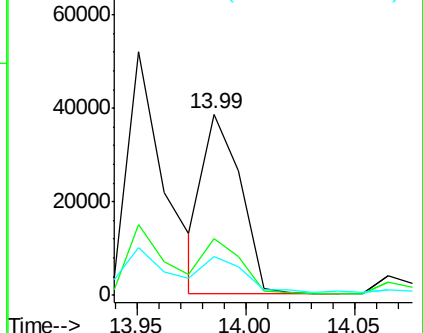
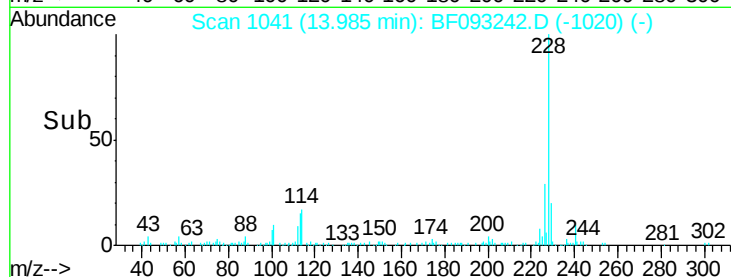
229 21.0 16.2 24.2



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: 2.26 ng

RT: 16.76 min Scan# 1284

Delta R.T. -0.09 min

Lab File: BF093242.D

Acq: 28 Feb 2017 12:18

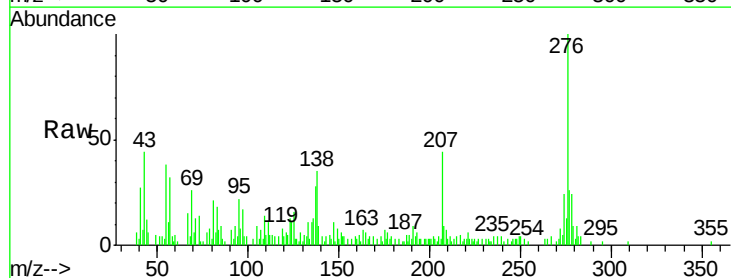
Tgt Ion:276 Resp: 30098

Ion Ratio Lower Upper

276 100

138 29.3 21.8 32.6

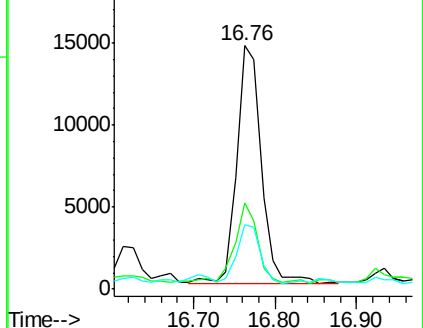
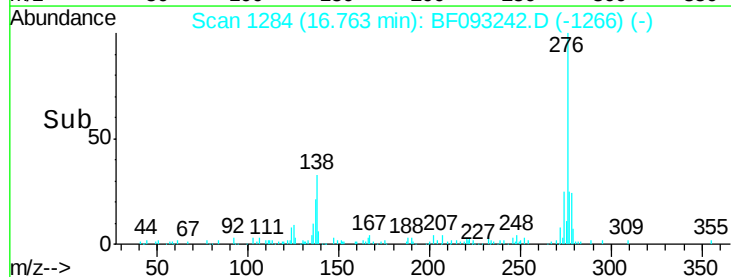
277 25.9 20.2 30.4

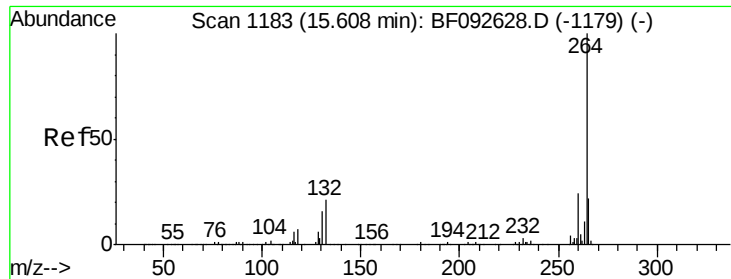


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

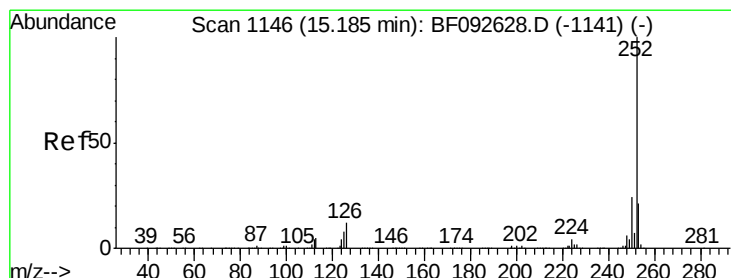
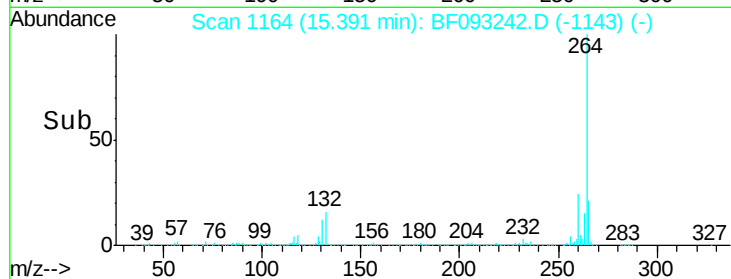
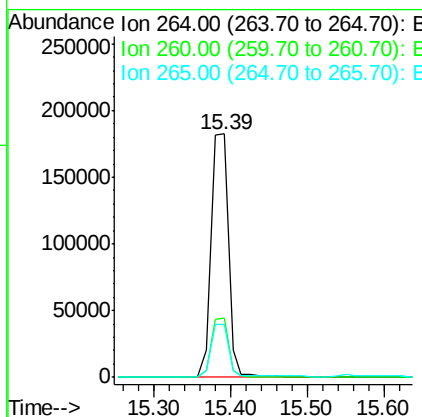
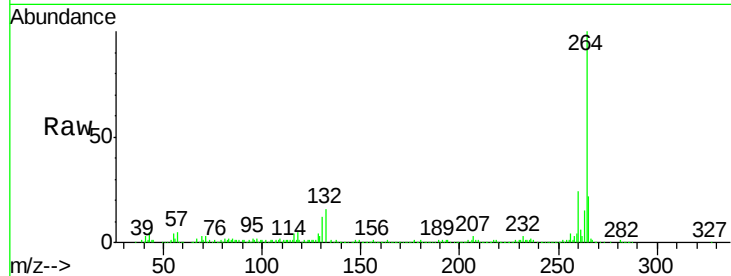




#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 15.39 min Scan# 1164
 Delta R.T. -0.06 min
 Lab File: BF093242.D
 Acq: 28 Feb 2017 12:18

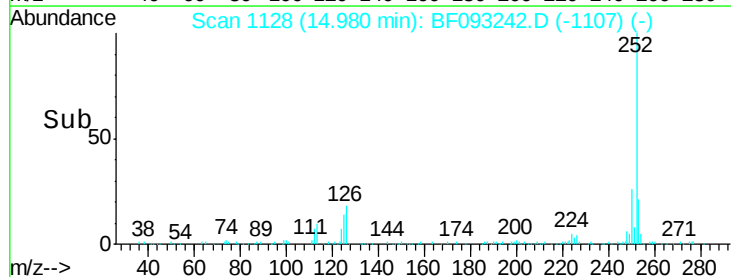
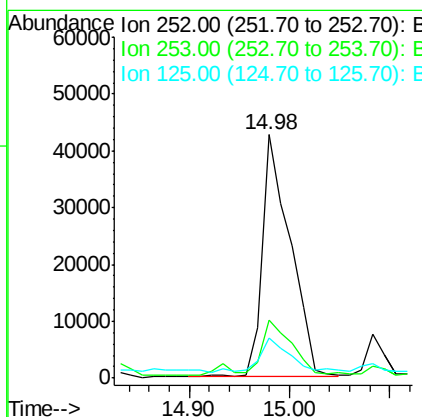
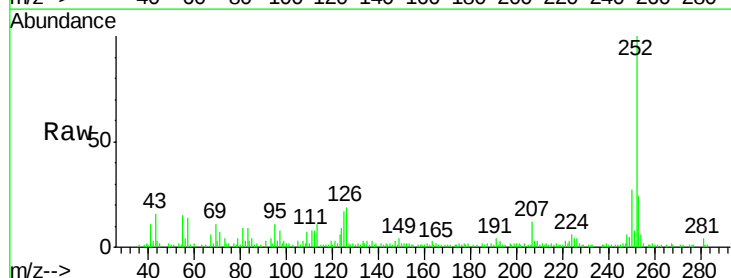
Instrument :
 BNA_F
 ClientSampled :

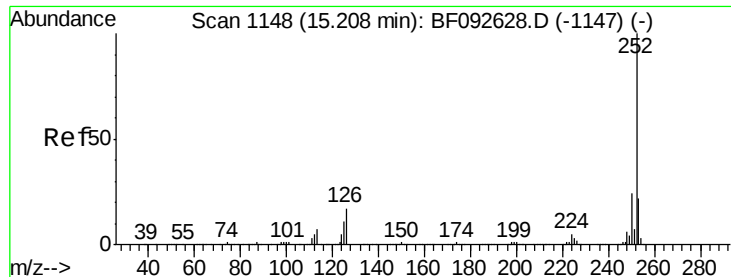
Tot Ion:264 Resp: 285755
 Ion Ratio Lower Upper
 264 100
 260 24.4 19.2 28.8
 265 21.6 17.4 26.0



#87
 Benzo(b)fluoranthene
 Concen: 4.35 ng
 RT: 14.98 min Scan# 1128
 Delta R.T. -0.06 min
 Lab File: BF093242.D
 Acq: 28 Feb 2017 12:18

Tgt Ion:252 Resp: 81824
 Ion Ratio Lower Upper
 252 100
 253 24.0 18.2 27.4
 125 16.7 9.8 14.6#

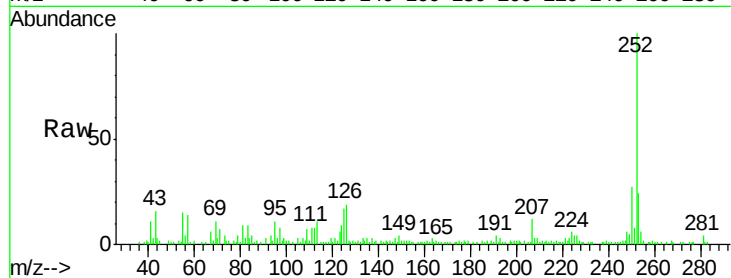




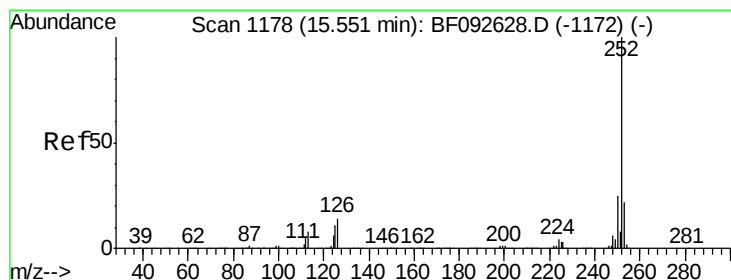
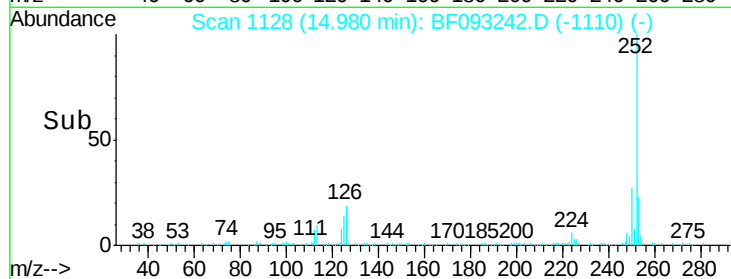
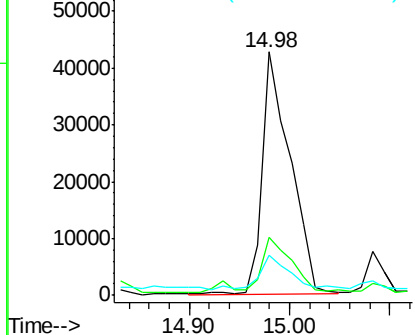
#88
Benzo(k)fluoranthene
Concen: 5.06 ng
RT: 14.98 min Scan# 1128
Delta R.T. -0.09 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 82141
Ion Ratio Lower Upper
252 100
253 24.0 18.5 27.7
125 16.7 8.9 13.3#

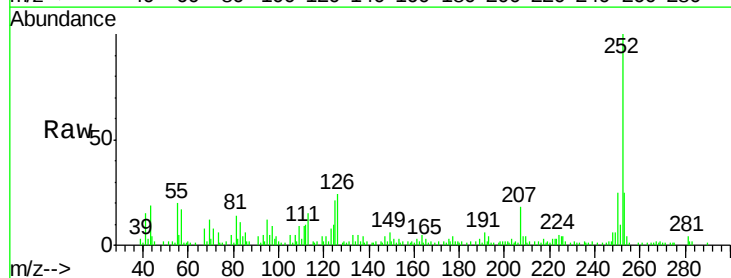


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

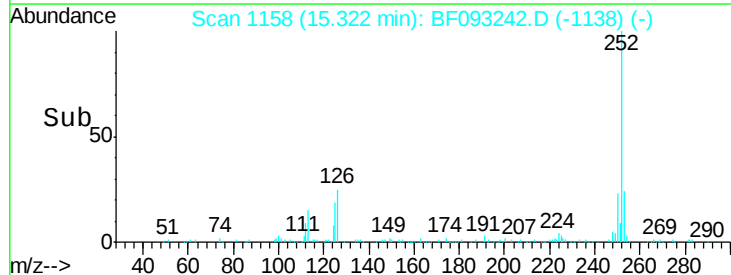
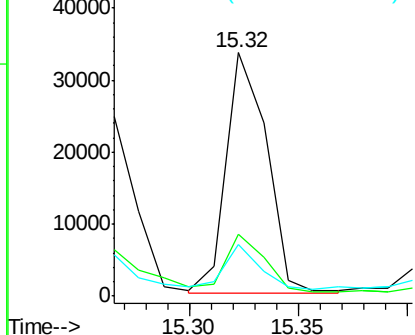


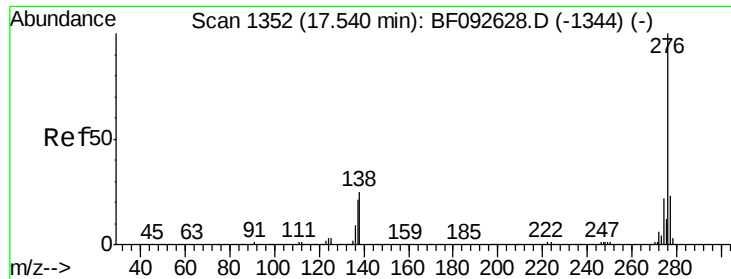
#89
Benzo(a)pyrene
Concen: 2.68 ng
RT: 15.32 min Scan# 1158
Delta R.T. -0.07 min
Lab File: BF093242.D
Acq: 28 Feb 2017 12:18

Tgt Ion:252 Resp: 43535
Ion Ratio Lower Upper
252 100
253 25.5 18.2 27.2
125 21.0 10.0 15.0#



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

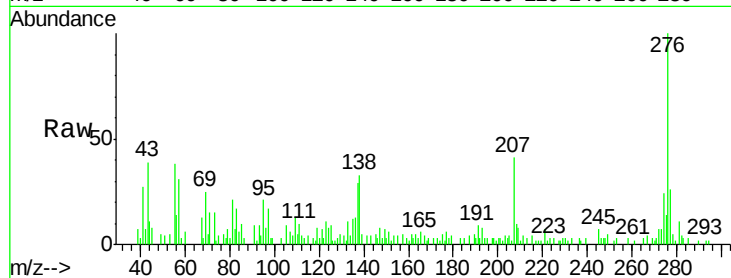




#91
 Benzo(a,h,i)perylene
 Concen: 2.38 ng
 RT: 17.19 min Scan# 1321
 Delta R.T. -0.10 min
 Lab File: BF093242.D
 Acq: 28 Feb 2017 12:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.2	28.8
138	32.6	16.0	24.0



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

