

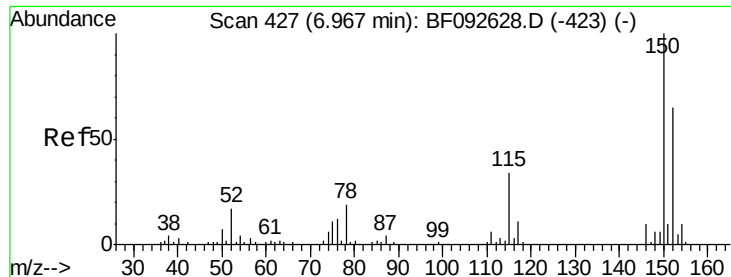
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020717\
 Data File : BF092851.D
 Acq On : 8 Feb 2017 4:06
 Operator : SJ/MA
 Sample : I1728-04
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R2-COMP

Quant Time: Feb 08 04:32:56 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 07 23:52:21 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	143313	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	591774	20.00	ng	0.00
38) Acenaphthene-d10	9.94	164	284798	20.00	ng	-0.01
63) Phenanthrene-d10	11.42	188	407097	20.00	ng	-0.01
75) Chrysene-d12	14.07	240	333214	20.00	ng	-0.01
86) Perylene-d12	15.52	264	277924	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	1134414	135.80	ng	0.02
7) Phenol-d6	6.54	99	1165337	108.42	ng	0.00
23) Nitrobenzene-d5	7.47	82	899090	84.61	ng	0.00
41) 2,4,6-Tribromophenol	10.74	330	282684	137.24	ng	0.00
44) 2-Fluorobiphenyl	9.26	172	1425695	90.69	ng	0.00
78) Terphenyl-d14	13.01	244	1056741	74.52	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.47	70	121651	17.78	ng	# 81
25) Isophorone	7.47	82	653555	33.00	ng	# 65
31) Naphthalene	8.21	128	1306465	43.55	ng	99
32) Benzoic acid	7.98	122	206	7.20	ng	# 13
33) 4-Chloroaniline	8.21	127	178101	15.14	ng	# 35
37) 2-Methylnaphthalene	8.90	142	129055	6.70	ng	98
45) 1,1'-Biphenyl	9.37	154	49794	2.41	ng	99
50) 2,6-Dinitrotoluene	9.94	165	37810	9.13	ng	# 31
51) Acenaphthene	9.97	154	271444	16.29	ng	97
54) Dibenzofuran	10.14	168	162787	7.30	ng	96
55) 4-Nitrophenol	10.14	139	57945	16.97	ng	# 5
57) Fluorene	10.49	166	181047	10.56	ng	97
64) 4,6-Dinitro-2-methylphenol	10.56	198	206	2.75	ng	# 1
66) 4-Bromophenyl-phenylether	10.74	248	20620	4.85	ng	# 1
70) Phenanthrene	11.45	178	310922	13.33	ng	98
72) Carbazole	11.66	167	108649	4.85	ng	95
74) Fluoranthene	12.64	202	69822	2.90	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. -0.01 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-R2-COMP

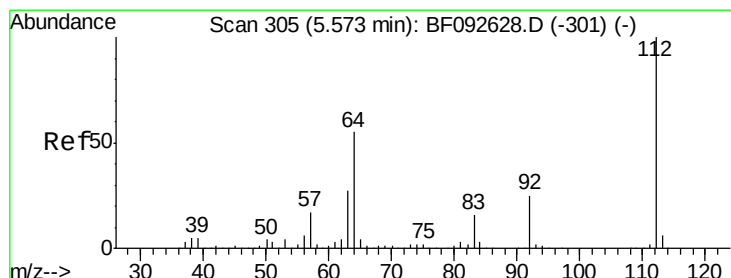
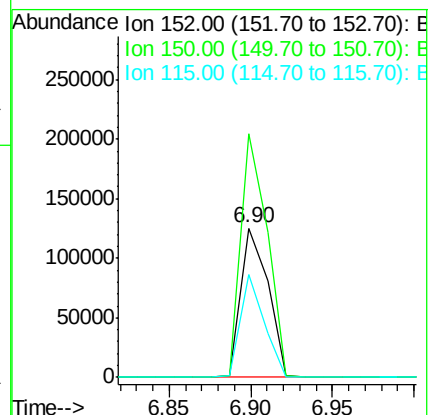
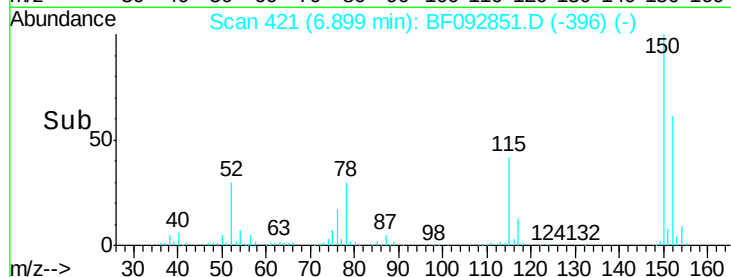
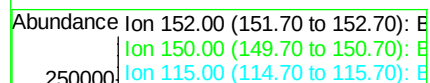
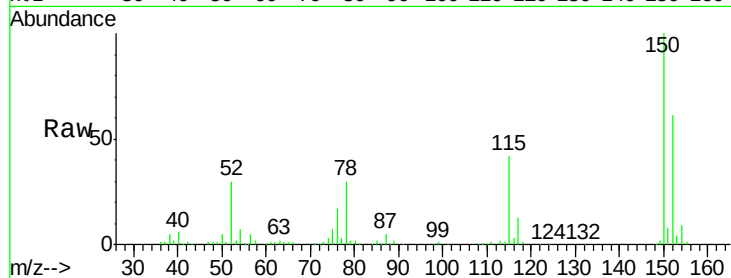
Tgt Ion:152 Resp: 143313

Ion Ratio Lower Upper

152 100

150 162.9 124.9 187.3

115 68.6 46.0 69.0



#5

2-Fluorophenol

Concen: 135.80 ng

RT: 5.53 min Scan# 301

Delta R.T. 0.02 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

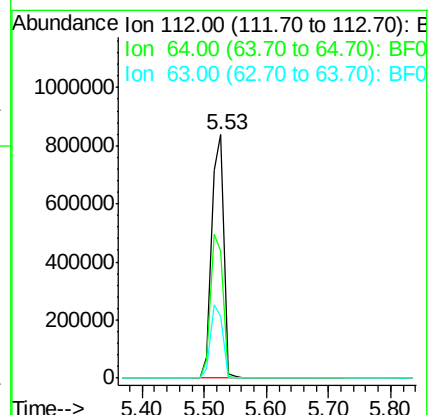
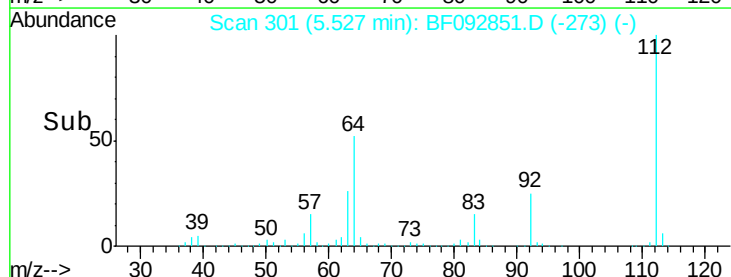
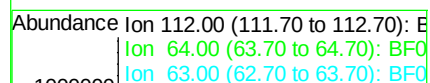
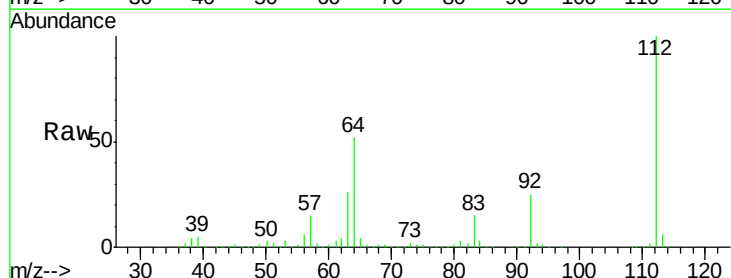
Tgt Ion:112 Resp: 1134414

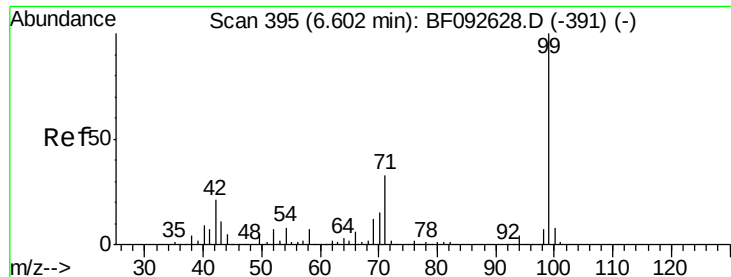
Ion Ratio Lower Upper

112 100

64 52.0 46.1 69.1

63 25.6 23.8 35.6





#7

Phenol-d6

Concen: 108.42 ng

RT: 6.54 min Scan# 390

Delta R.T. -0.00 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-R2-COMP

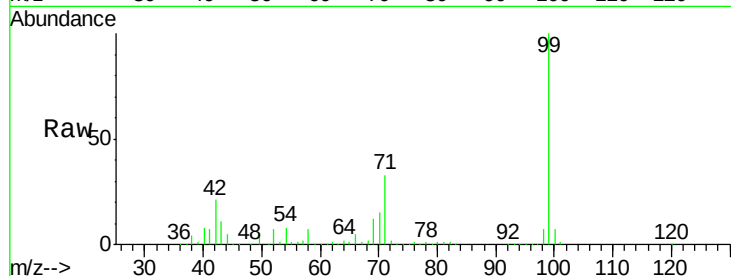
Tgt Ion: 99 Resp: 1165337

Ion Ratio Lower Upper

99 100

42 20.6 15.6 23.4

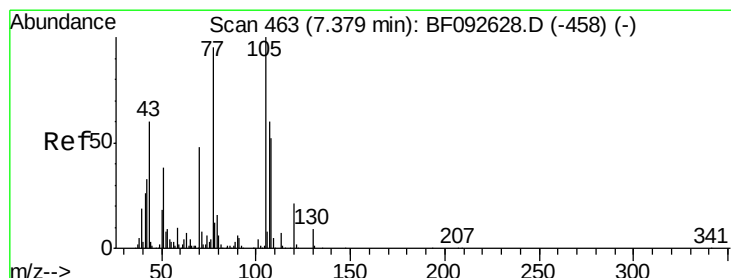
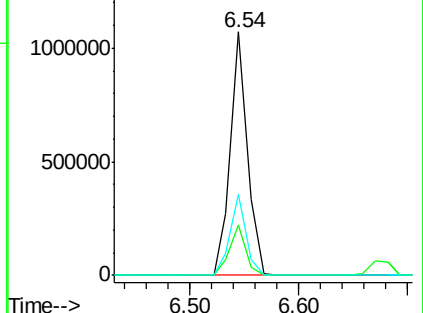
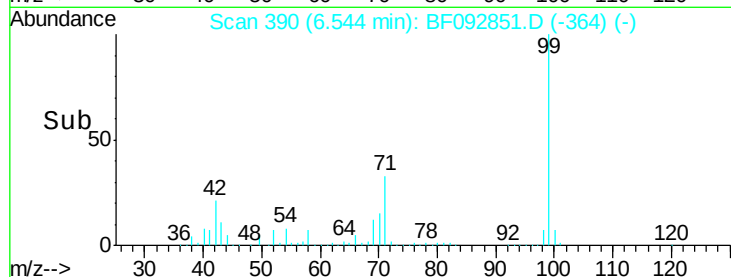
71 33.1 27.5 41.3



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: 17.78 ng

RT: 7.47 min Scan# 471

Delta R.T. 0.15 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

Tgt Ion: 70 Resp: 121651

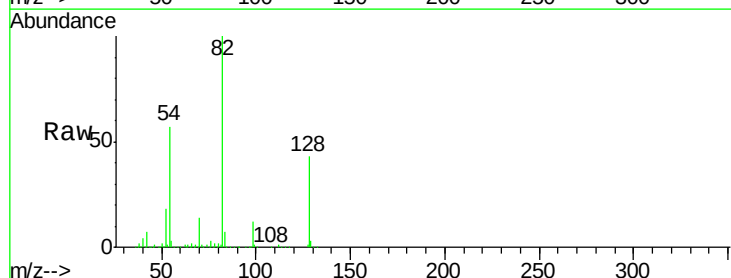
Ion Ratio Lower Upper

70 100

42 51.2 49.4 74.0

101 0.0 7.4 11.2#

130 2.3 14.2 21.4#

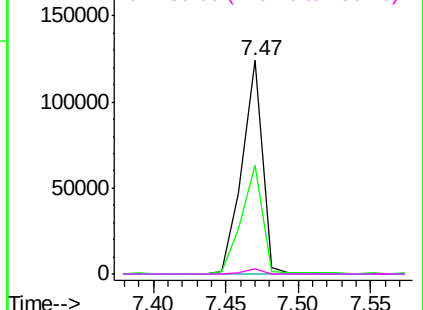
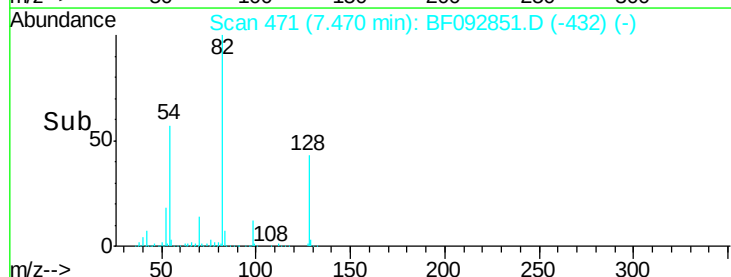


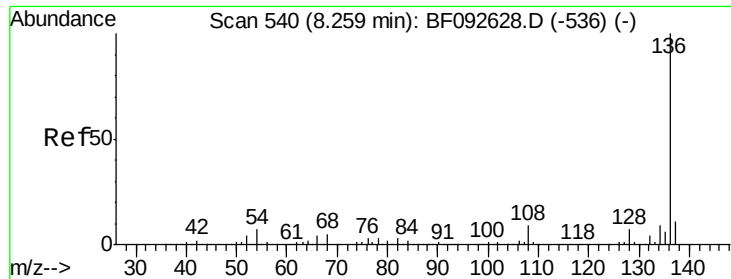
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

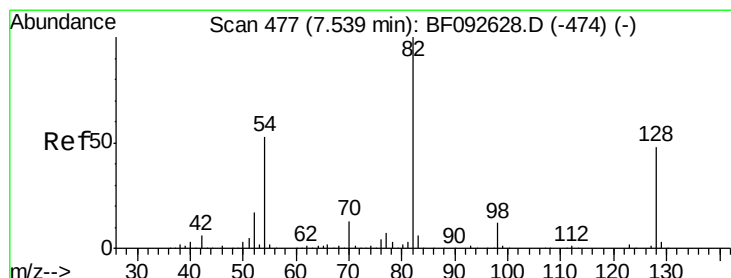
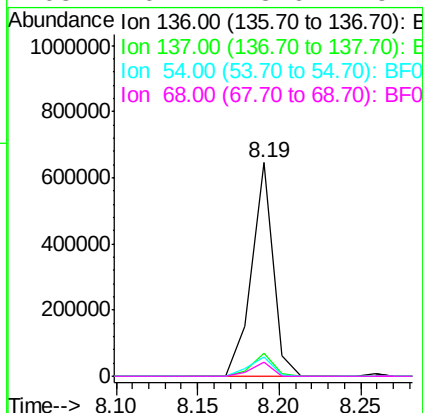
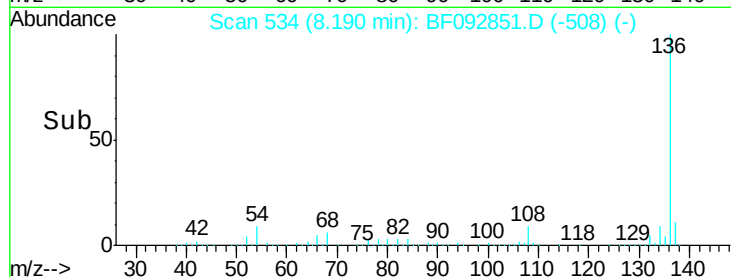
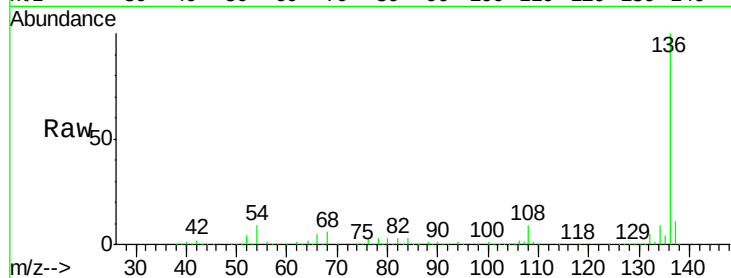




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.19 min Scan# 534
Delta R.T. -0.00 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

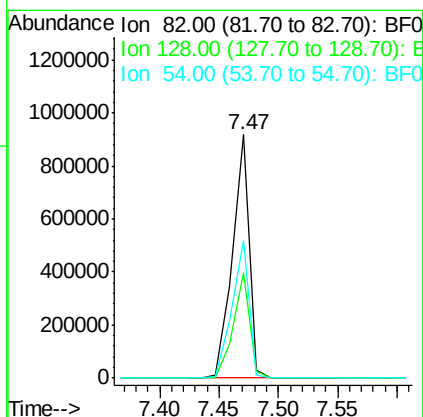
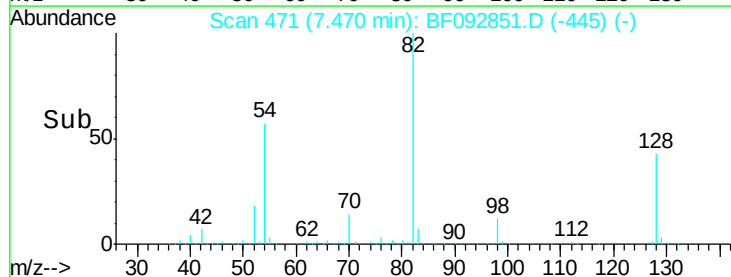
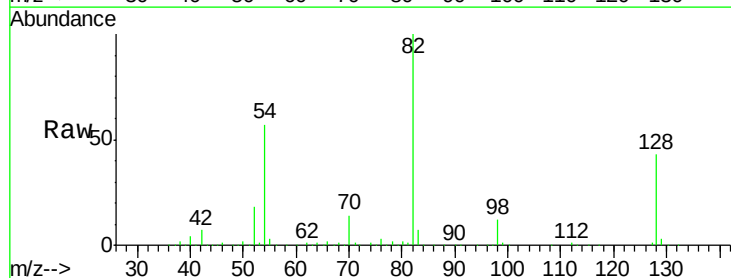
Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

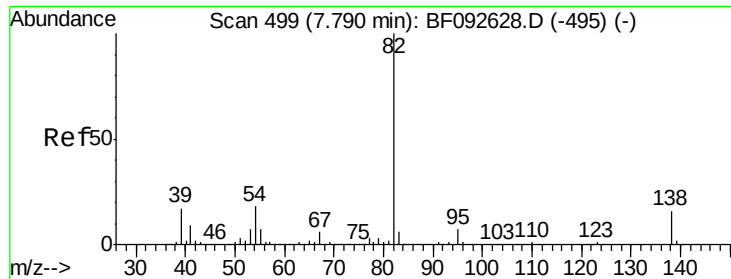
Tgt Ion:	136	Resp:	591774
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	9.1	4.5	6.7#
68	6.4	3.6	5.4#



#23
Nitrobenzene-d5
Concen: 84.61 ng
RT: 7.47 min Scan# 471
Delta R.T. -0.00 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

Tgt Ion:	82	Resp:	899090
Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.6	52.0
54	56.6	39.5	59.3

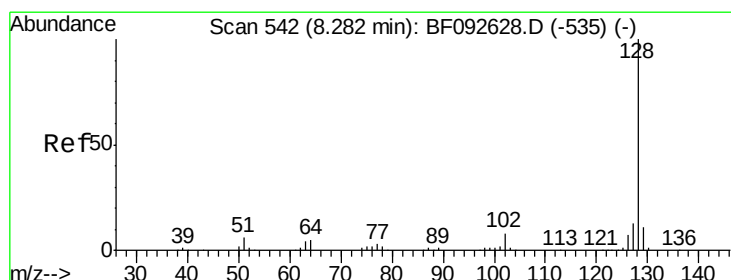
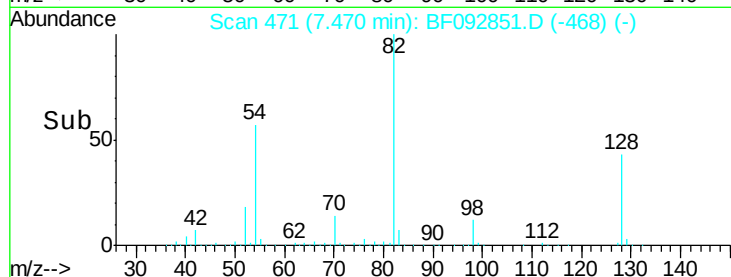
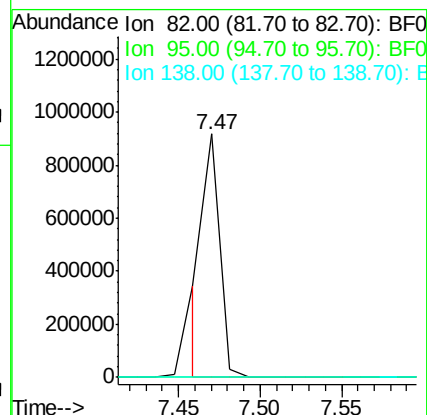
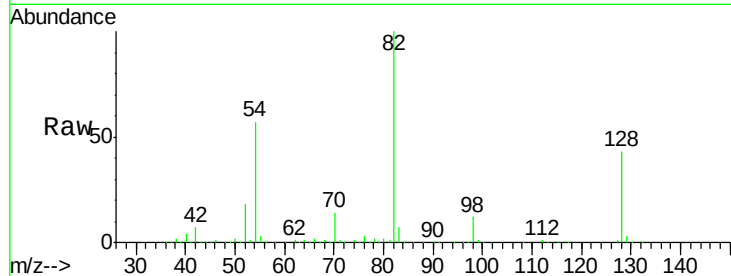




#25
Isophorone
Concen: 33.00 ng
RT: 7.47 min Scan# 471
Delta R.T. -0.26 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

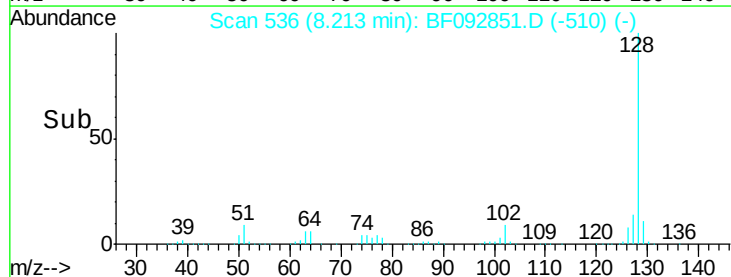
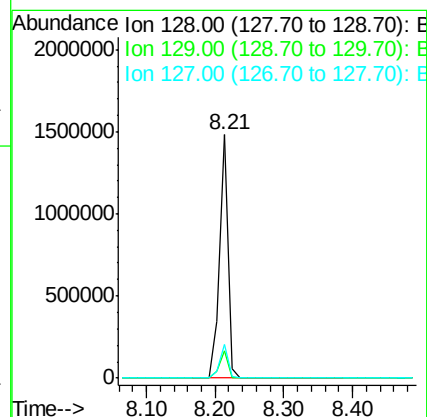
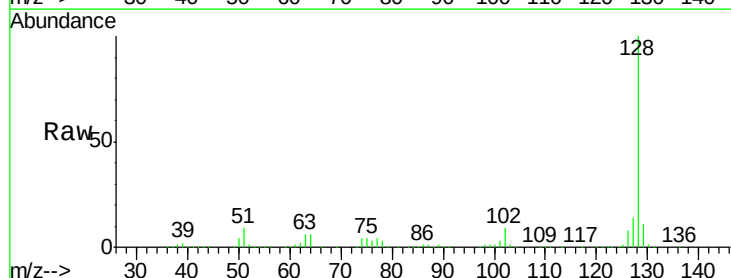
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BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

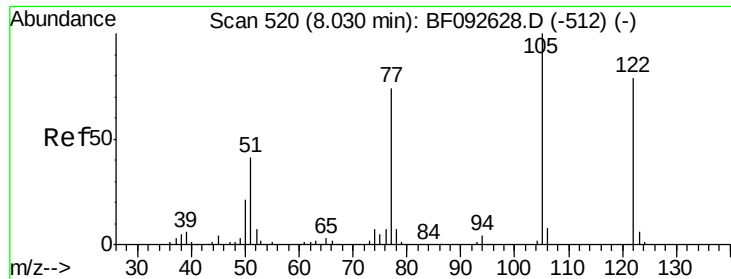
Tgt Ion: 82 Resp: 653555
Ion Ratio Lower Upper
82 100
95 0.0 5.6 8.4#
138 0.0 14.6 22.0#



#31
Naphthalene
Concen: 43.55 ng
RT: 8.21 min Scan# 536
Delta R.T. -0.00 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

Tgt Ion: 128 Resp: 1306465
Ion Ratio Lower Upper
128 100
129 11.2 9.5 14.3
127 13.8 10.8 16.2

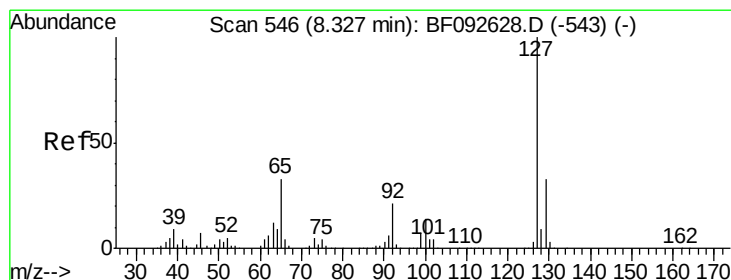
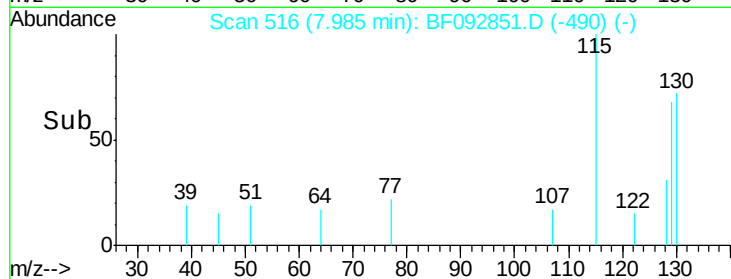
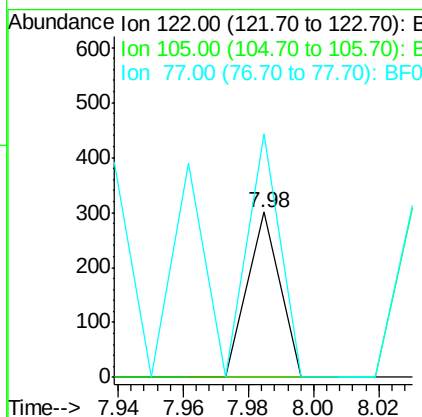
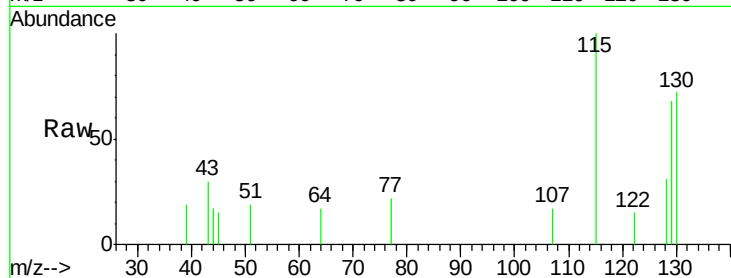




#32
Benzoic acid
Concen: 7.20 ng
RT: 7.98 min Scan# 516
Delta R.T. -0.00 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

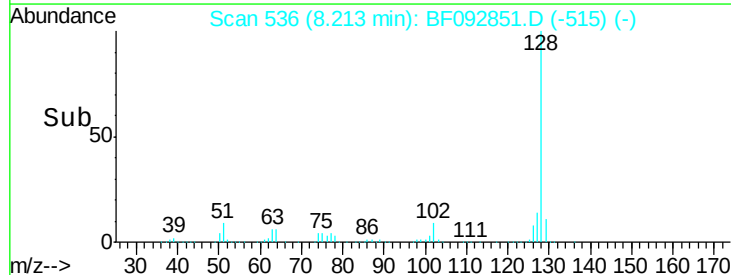
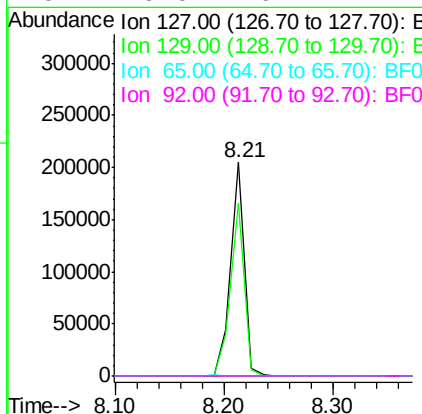
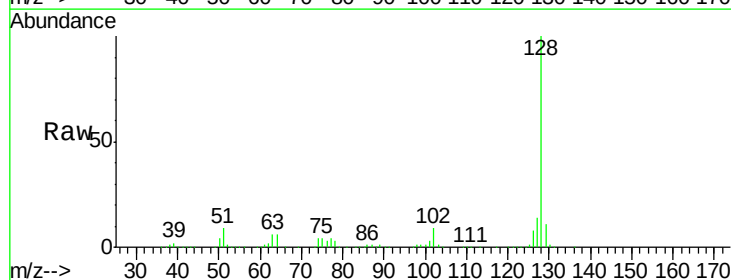
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BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

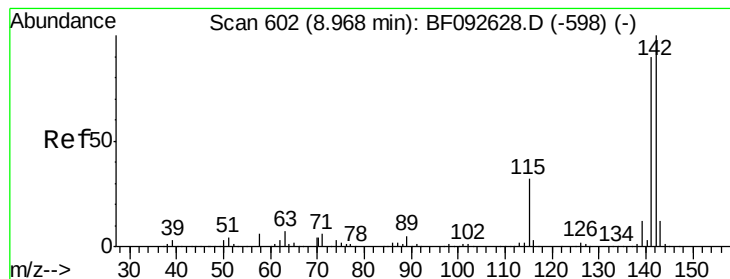
Tgt Ion:122 Resp: 206
Ion Ratio Lower Upper
122 100
105 0.0 107.2 147.2#
77 147.2 74.5 114.5#



#33
4-Chloroaniline
Concen: 15.14 ng
RT: 8.21 min Scan# 536
Delta R.T. -0.06 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

Tgt Ion:127 Resp: 178101
Ion Ratio Lower Upper
127 100
129 81.1 26.3 39.5#
65 0.0 25.8 38.8#
92 0.0 16.1 24.1#

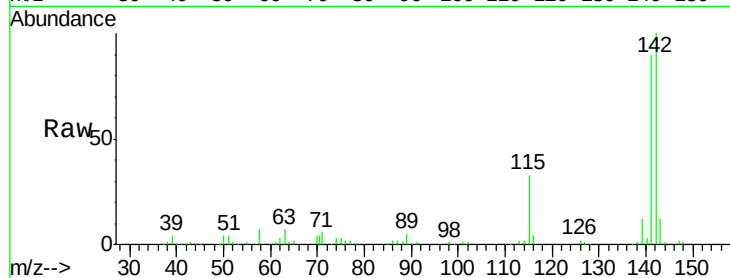




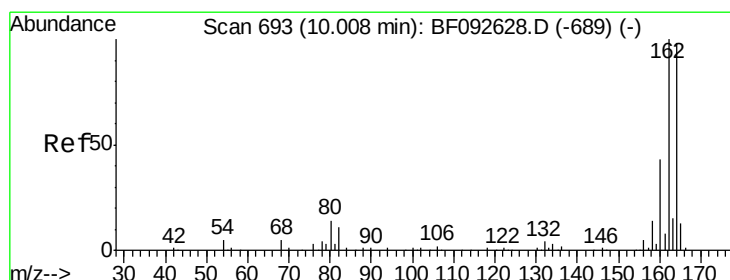
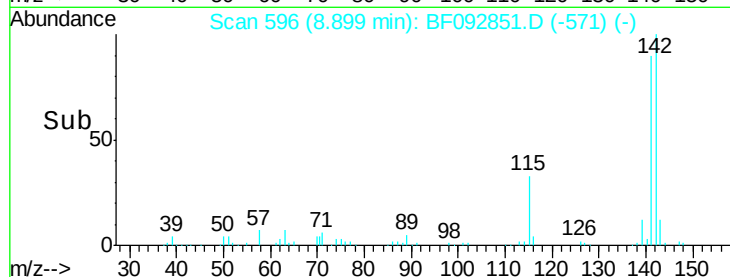
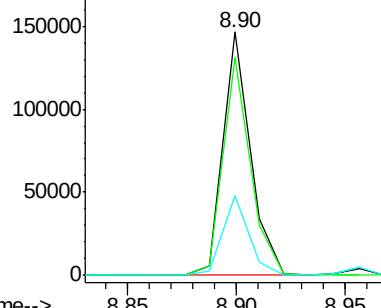
#37
 2-Methylnaphthalene
 Concen: 6.70 ng
 RT: 8.90 min Scan# 596
 Delta R.T. -0.01 min
 Lab File: BF092851.D
 Acq: 8 Feb 2017 4:06

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R2-COMP

Tgt Ion:142 Resp: 129055
 Ion Ratio Lower Upper
 142 100
 141 89.7 71.0 106.6
 115 33.0 28.3 42.5

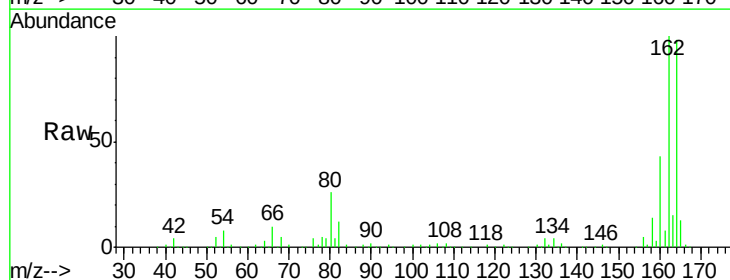


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

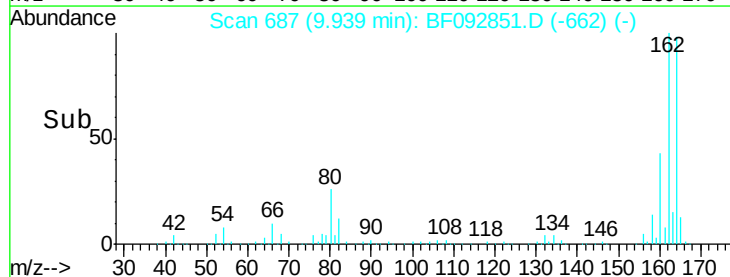
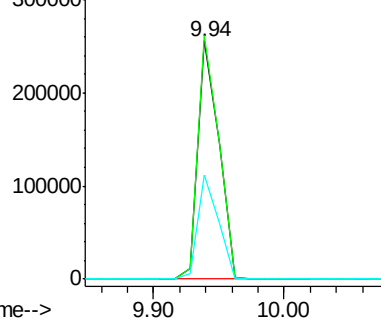


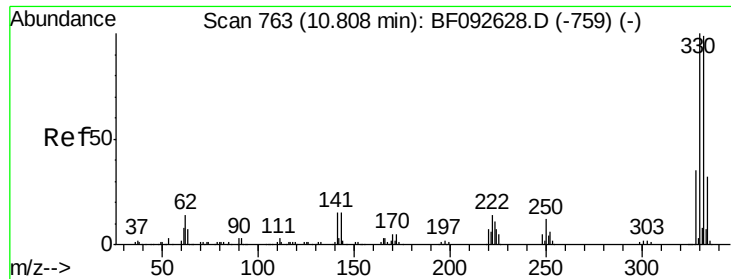
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.94 min Scan# 687
 Delta R.T. -0.01 min
 Lab File: BF092851.D
 Acq: 8 Feb 2017 4:06

Tgt Ion:164 Resp: 284798
 Ion Ratio Lower Upper
 164 100
 162 102.3 80.2 120.2
 160 43.6 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

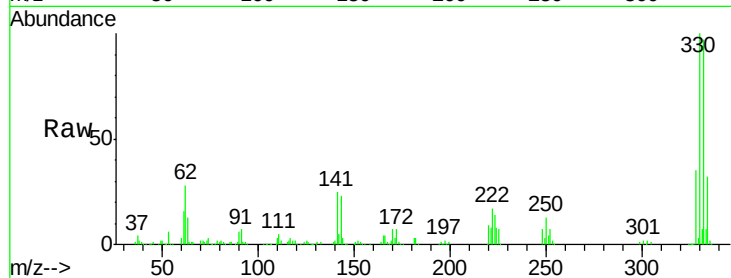




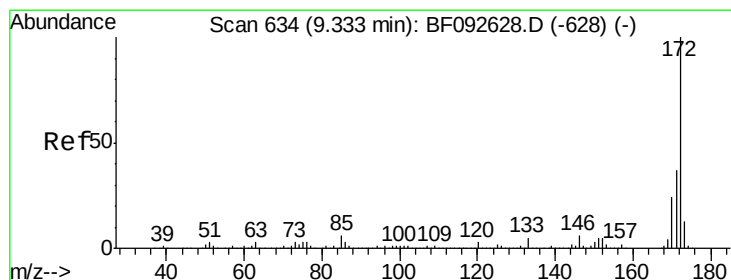
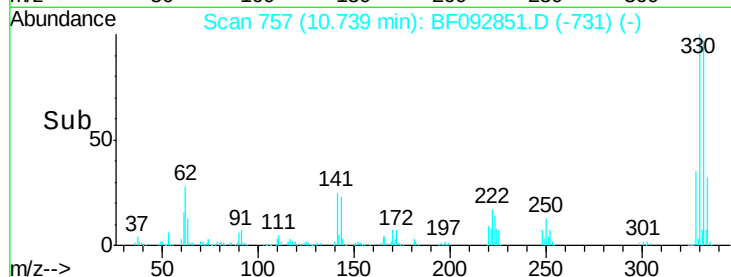
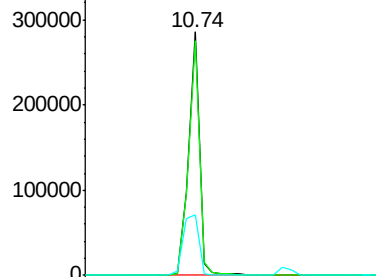
#41
 2,4,6-Tribromophenol
 Concen: 137.24 ng
 RT: 10.74 min Scan# 757
 Delta R.T. -0.00 min
 Lab File: BF092851.D
 Acq: 8 Feb 2017 4:06

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R2-COMP

Tgt Ion:330 Resp: 282684
 Ion Ratio Lower Upper
 330 100
 332 96.8 77.4 116.2
 141 35.9 34.1 51.1

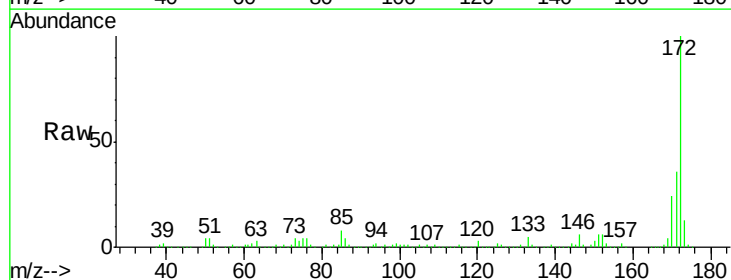


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

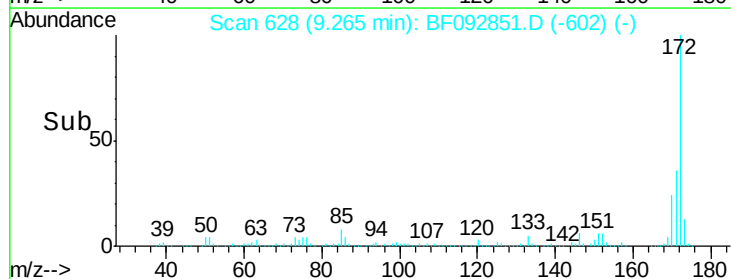
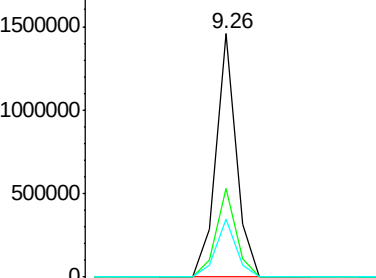


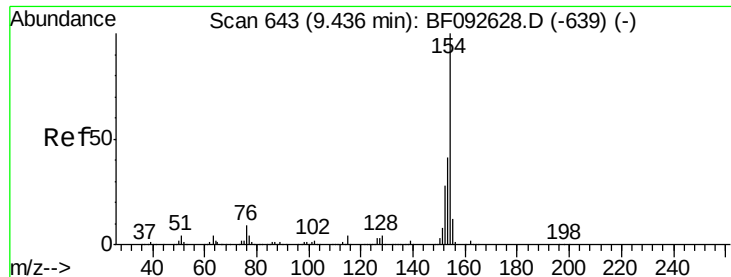
#44
 2-Fluorobiphenyl
 Concen: 90.69 ng
 RT: 9.26 min Scan# 628
 Delta R.T. -0.00 min
 Lab File: BF092851.D
 Acq: 8 Feb 2017 4:06

Tgt Ion:172 Resp: 1425695
 Ion Ratio Lower Upper
 172 100
 171 36.5 29.4 44.0
 170 23.9 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

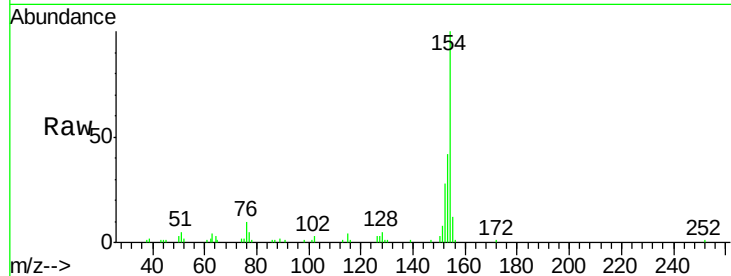




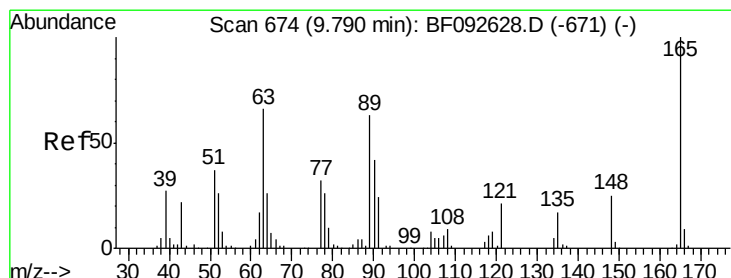
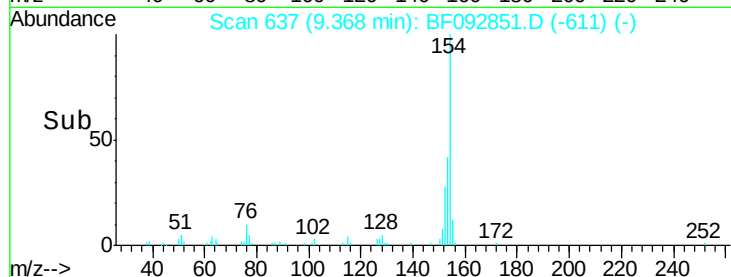
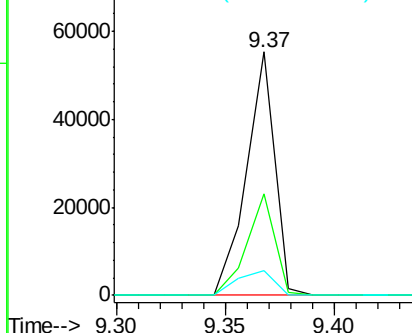
#45
 1,1'-Biphenyl
 Concen: 2.41 ng
 RT: 9.37 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: BF092851.D
 Acq: 8 Feb 2017 4:06

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R2-COMP

Tgt Ion:154 Resp: 49794
 Ion Ratio Lower Upper
 154 100
 153 41.7 20.9 60.9
 76 10.1 0.0 30.5

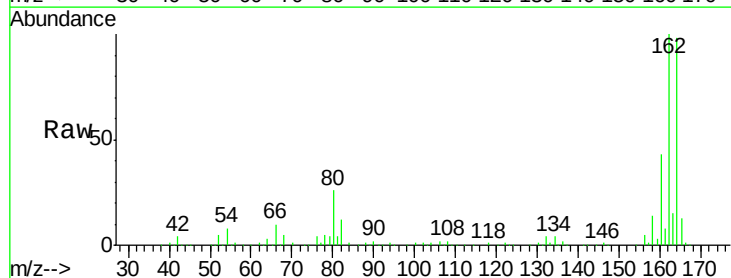


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

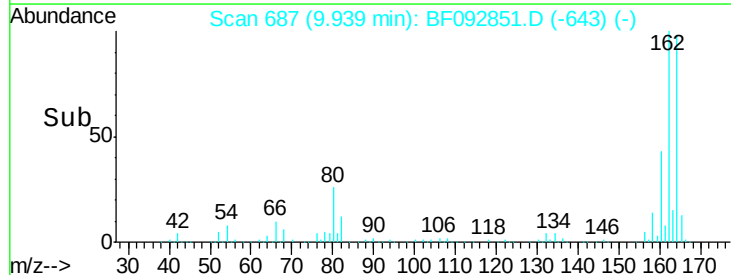
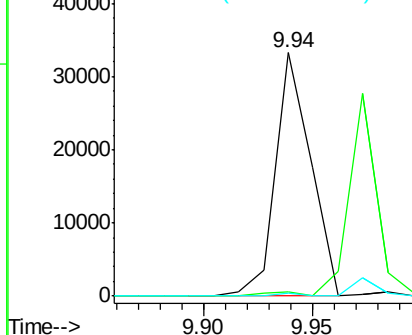


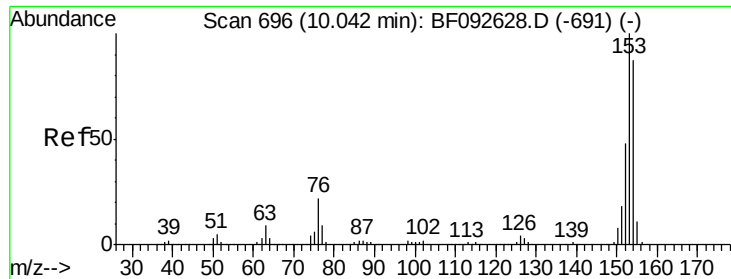
#50
 2,6-Dinitrotoluene
 Concen: 9.13 ng
 RT: 9.94 min Scan# 687
 Delta R.T. 0.21 min
 Lab File: BF092851.D
 Acq: 8 Feb 2017 4:06

Tgt Ion:165 Resp: 37810
 Ion Ratio Lower Upper
 165 100
 63 1.8 36.2 54.4#
 89 1.2 40.2 60.4#



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





#51

Acenaphthene

Concen: 16.29 ng

RT: 9.97 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-R2-COMP

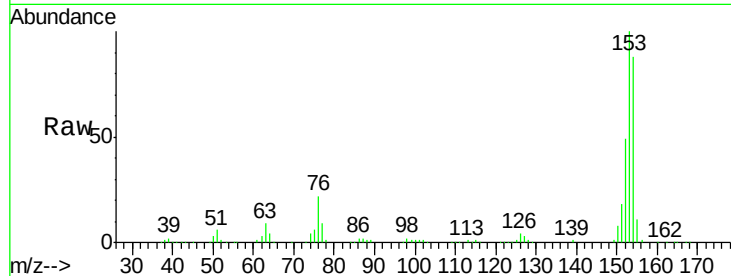
Tgt Ion:154 Resp: 271444

Ion Ratio Lower Upper

154 100

153 113.4 88.6 133.0

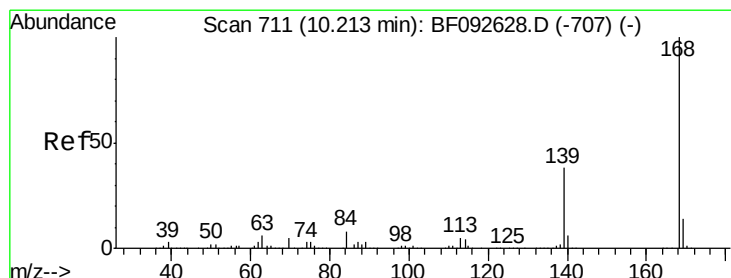
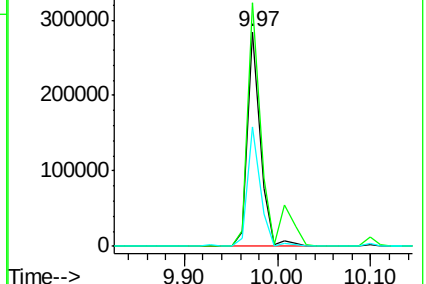
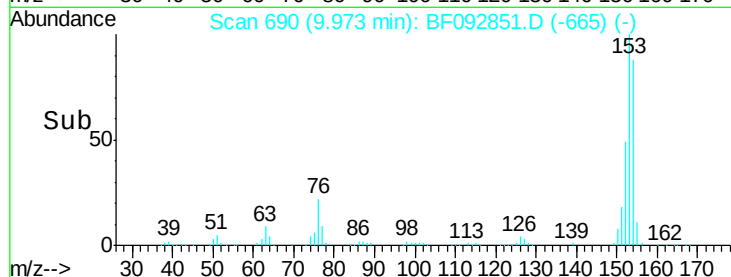
152 55.6 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 7.30 ng

RT: 10.14 min Scan# 705

Delta R.T. -0.01 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

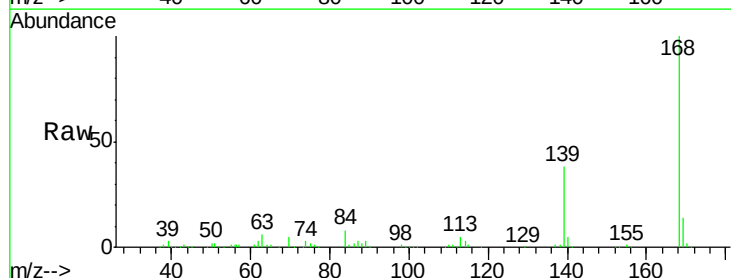
Tgt Ion:168 Resp: 162787

Ion Ratio Lower Upper

168 100

139 37.6 32.6 49.0

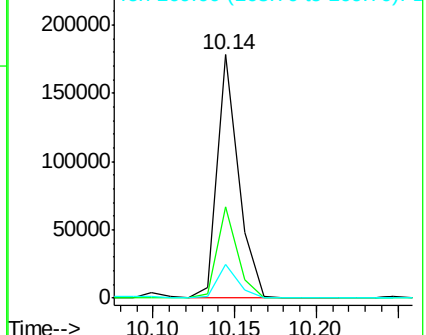
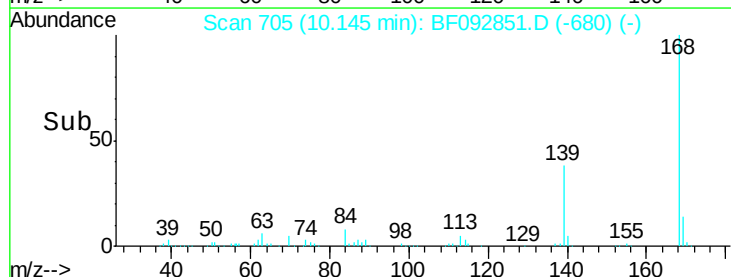
169 13.6 11.3 16.9

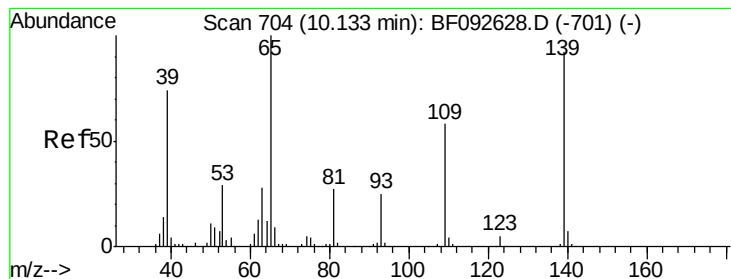


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 16.97 ng

RT: 10.14 min Scan# 705

Delta R.T. 0.07 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-R2-COMP

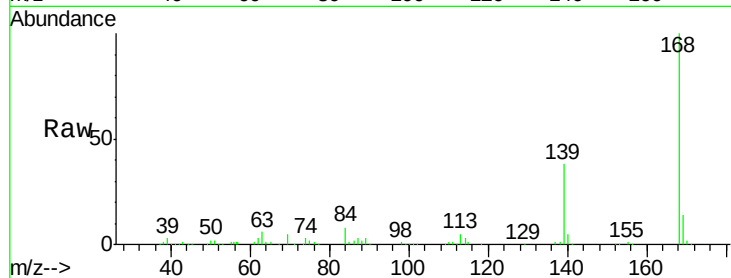
Tgt Ion:139 Resp: 57945

Ion Ratio Lower Upper

139 100

109 1.1 52.2 92.2#

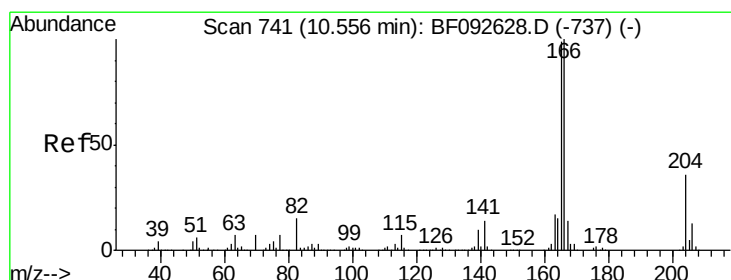
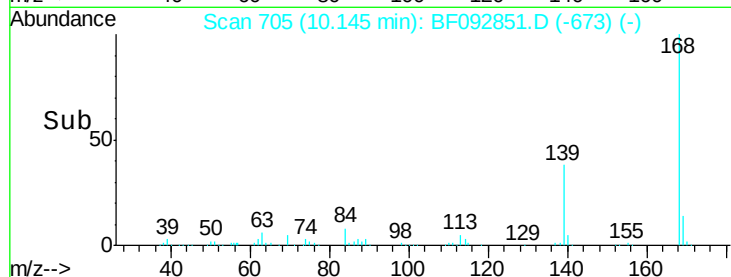
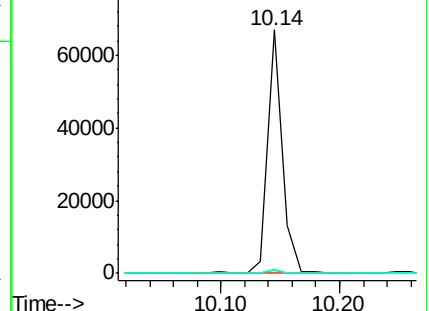
65 1.6 85.8 125.8#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#57

Fluorene

Concen: 10.56 ng

RT: 10.49 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

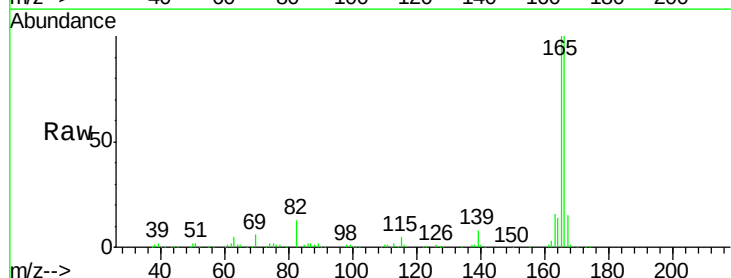
Tgt Ion:166 Resp: 181047

Ion Ratio Lower Upper

166 100

165 99.9 77.8 116.8

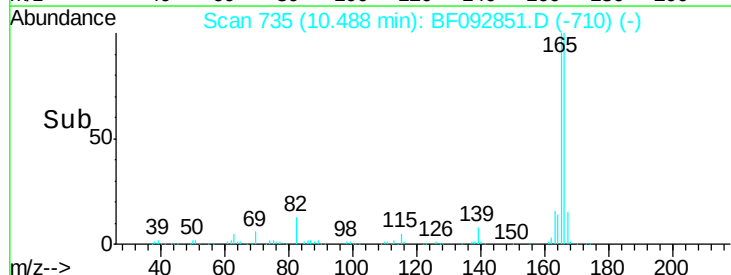
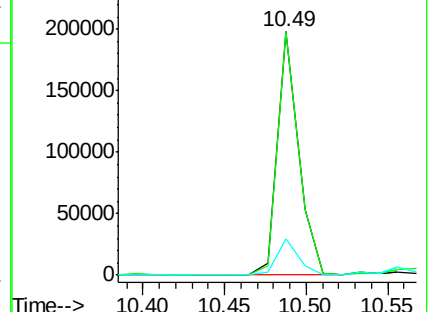
167 14.7 10.8 16.2

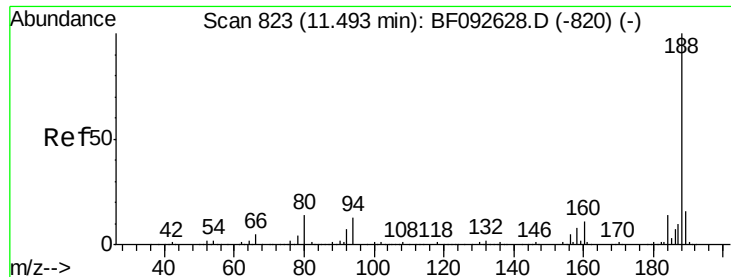


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

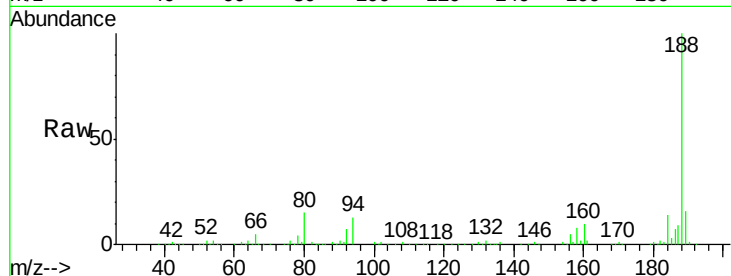




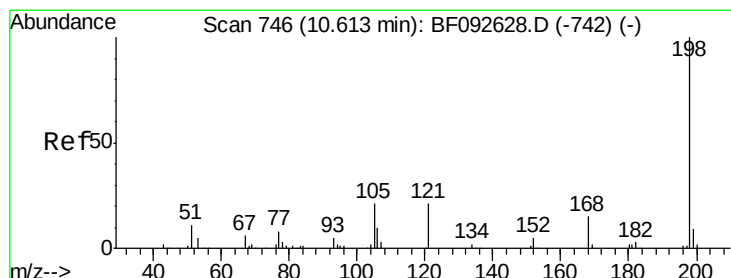
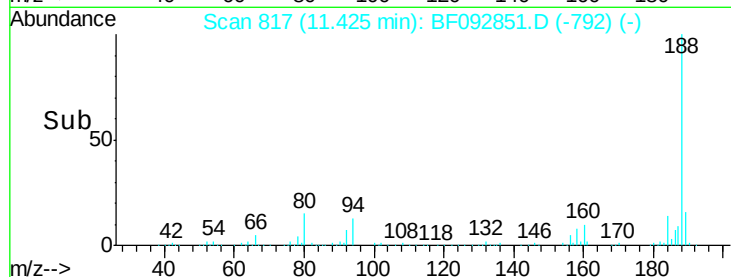
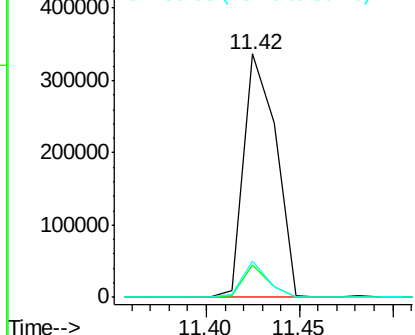
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.42 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

Tgt Ion:188 Resp: 407097
Ion Ratio Lower Upper
188 100
94 13.1 10.0 15.0
80 14.7 11.2 16.8

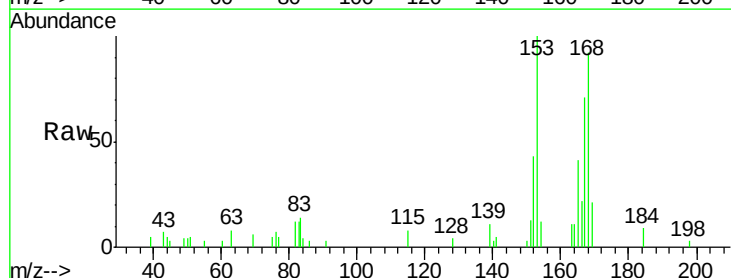


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

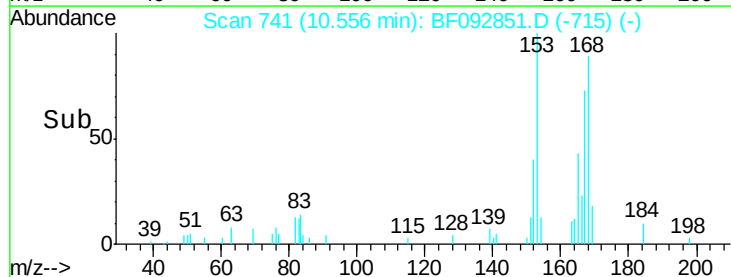
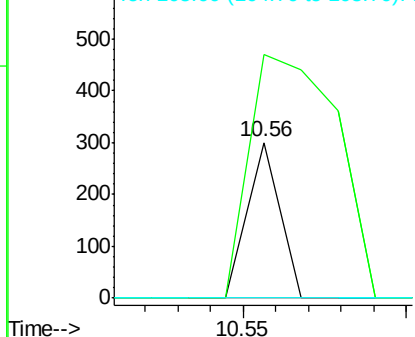


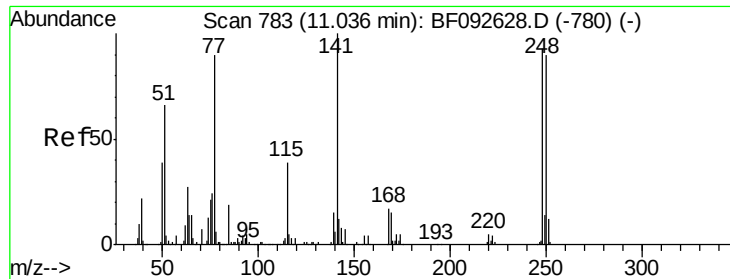
#64
4,6-Dinitro-2-methylphenol
Concen: 2.75 ng
RT: 10.56 min Scan# 741
Delta R.T. -0.00 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

Tgt Ion:198 Resp: 206
Ion Ratio Lower Upper
198 100
51 156.7 6.7 46.7#
105 0.0 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

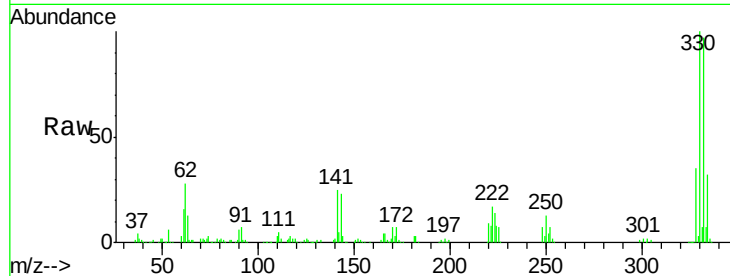




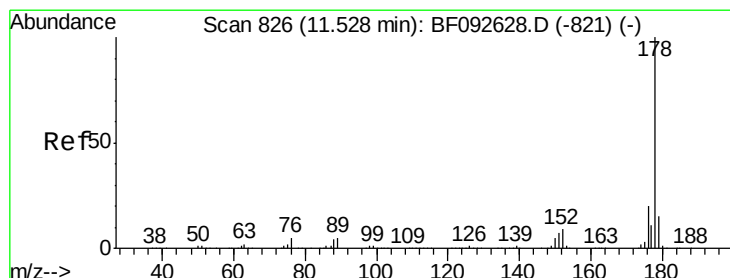
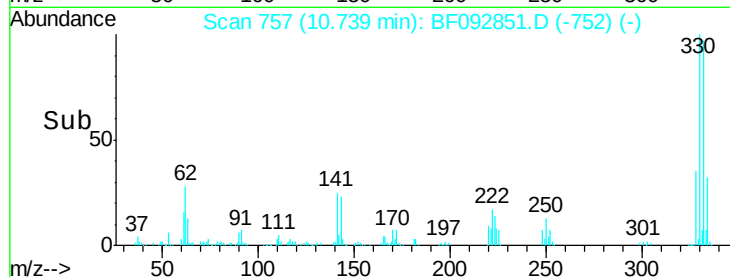
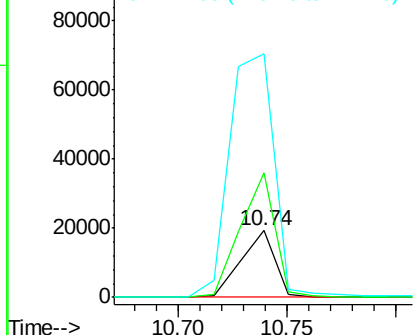
#66
4-Bromophenyl-phenylether
Concen: 4.85 ng
RT: 10.74 min Scan# 757
Delta R.T. -0.24 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

Tgt Ion: 248 Resp: 20620
Ion Ratio Lower Upper
248 100
250 188.0 76.9 115.3#
141 365.7 68.2 102.4#

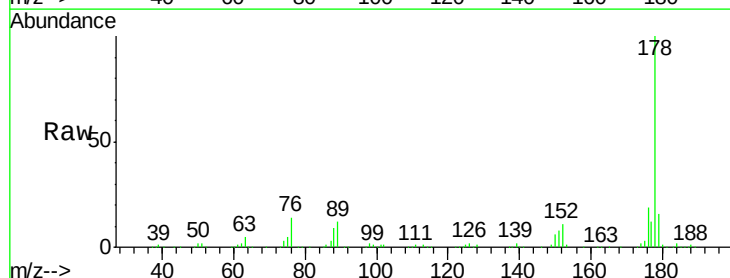


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

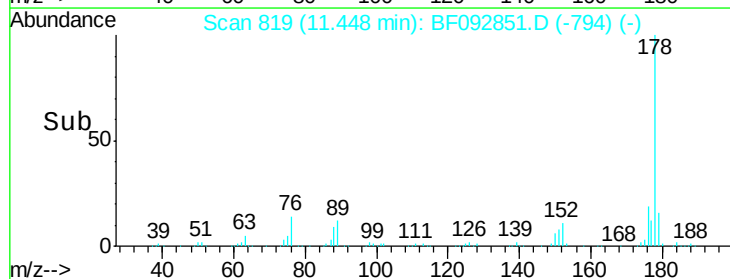
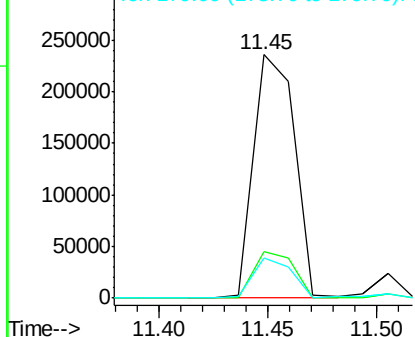


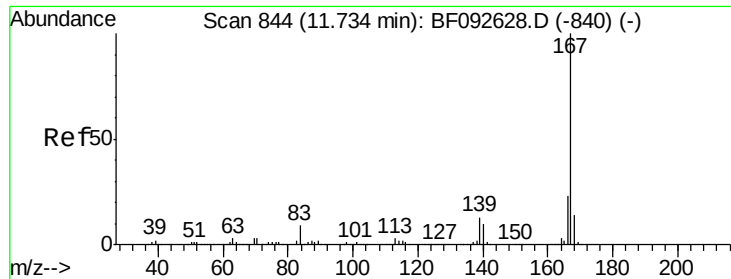
#70
Phenanthrene
Concen: 13.33 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.01 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

Tgt Ion: 178 Resp: 310922
Ion Ratio Lower Upper
178 100
176 19.0 16.6 25.0
179 16.2 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





#72

Carbazole

Concen: 4.85 ng

RT: 11.66 min Scan# 838

Delta R.T. -0.00 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-R2-COMP

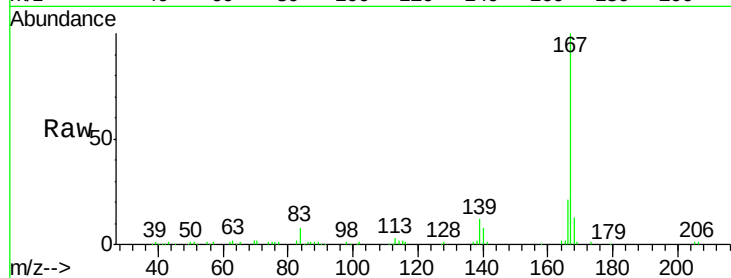
Tgt Ion:167 Resp: 108649

Ion Ratio Lower Upper

167 100

166 20.9 18.2 27.2

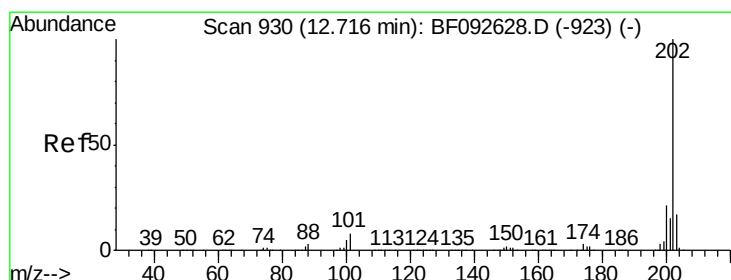
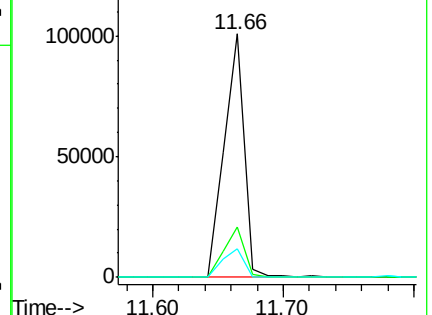
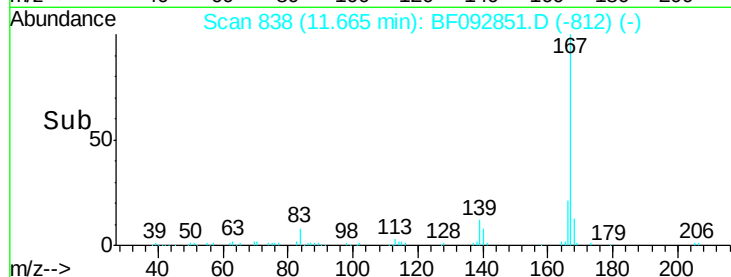
139 11.8 11.4 17.2



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 2.90 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

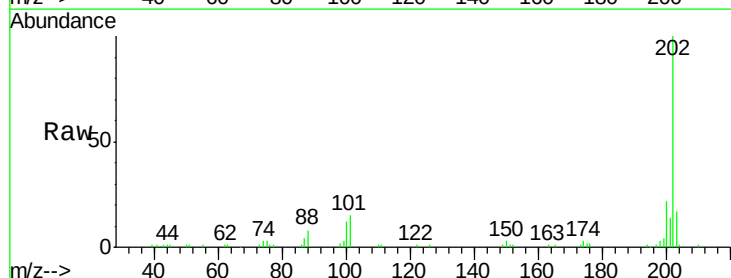
Tgt Ion:202 Resp: 69822

Ion Ratio Lower Upper

202 100

101 15.2 0.0 34.6

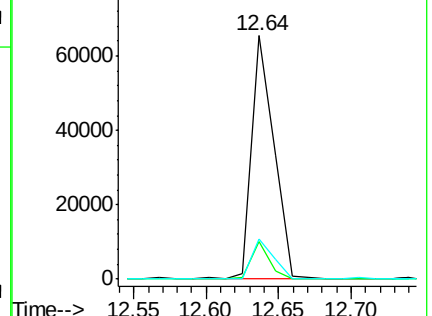
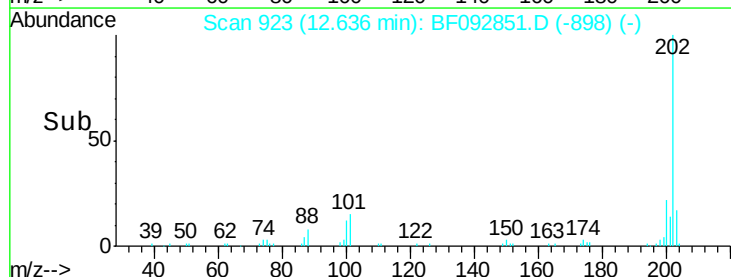
203 16.6 0.0 38.7

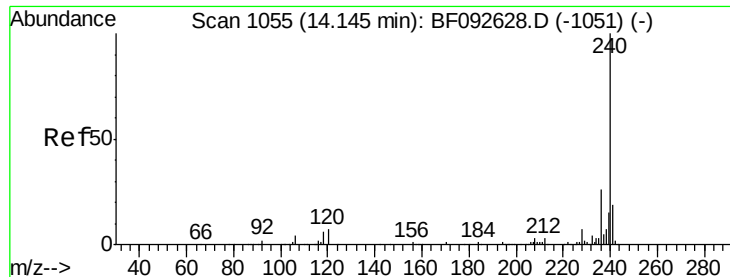


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.07 min Scan# 1048

Delta R.T. -0.01 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-R2-COMP

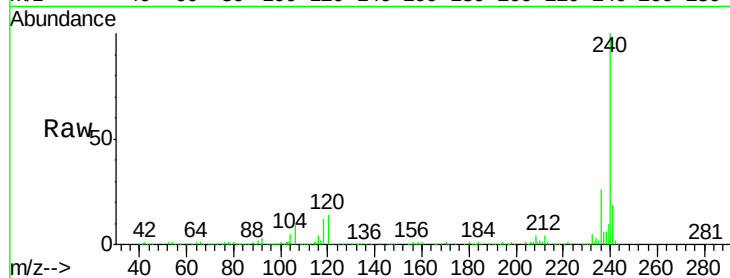
Tgt Ion:240 Resp: 333214

Ion Ratio Lower Upper

240 100

120 13.9 12.9 19.3

236 25.8 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

14.07

400000

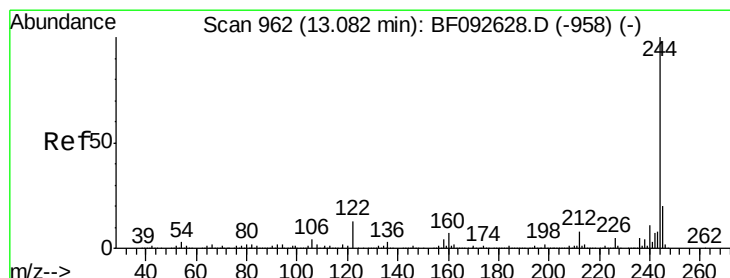
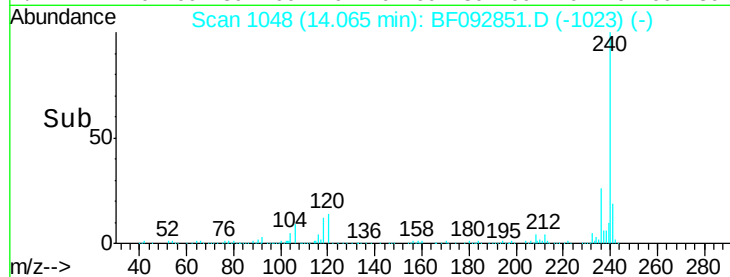
300000

200000

100000

0

Time-->



#78

Terphenyl-d14

Concen: 74.52 ng

RT: 13.01 min Scan# 956

Delta R.T. -0.01 min

Lab File: BF092851.D

Acq: 8 Feb 2017 4:06

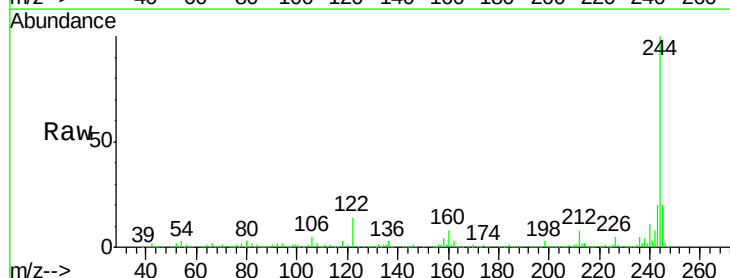
Tgt Ion:244 Resp: 1056741

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

122 14.1 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

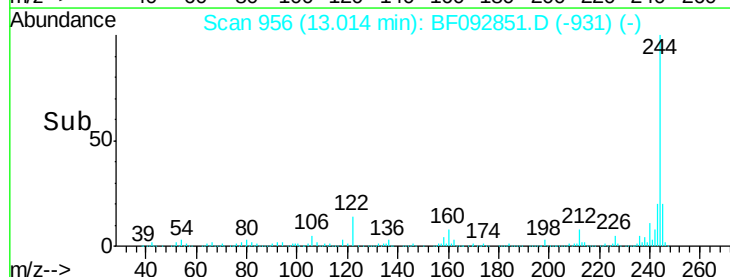
13.01

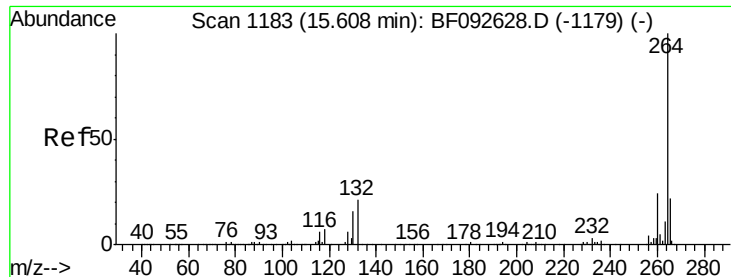
1000000

500000

0

Time-->

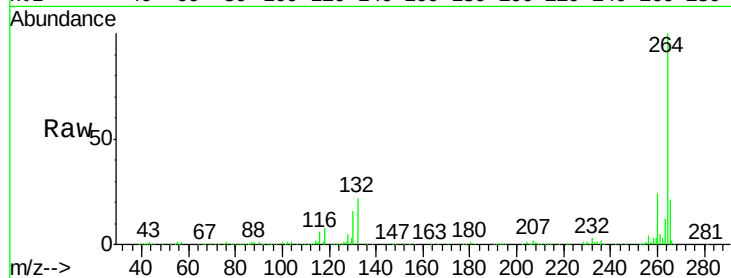




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.52 min Scan# 1175
Delta R.T. -0.01 min
Lab File: BF092851.D
Acq: 8 Feb 2017 4:06

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

Tgt Ion: 264 Resp: 277924
Ion Ratio Lower Upper
264 100
260 24.1 19.2 28.8
265 21.2 17.4 26.0



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

