

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012017\
 Data File : BF092373.D
 Acq On : 20 Jan 2017 15:21
 Operator : UM/SJ
 Sample : I1304-04
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1634-NOTTINGHAM-COMP

Quant Time: Jan 20 22:13:31 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 06 15:43:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	585127	20.00	ng	0.04
21) Naphthalene-d8	7.81	136	578221	20.00	ng	-0.12
38) Acenaphthene-d10	9.56	164	438504	20.00	ng	-0.12
63) Phenanthrene-d10	11.03	188	667979	20.00	ng	-0.12
75) Chrysene-d12	13.66	240	412790	20.00	ng	-0.12
86) Perylene-d12	15.01	264	364469	20.00	ng	-0.13

System Monitoring Compounds						
5) 2-Fluorophenol	5.11	112	1381499	39.42	ng	-0.12
7) Phenol-d6	6.20	99	1843931	43.10	ng	-0.11
23) Nitrobenzene-d5	7.10	82	1155943	111.16	ng	-0.11
41) 2,4,6-Tribromophenol	10.35	330	425986	117.39	ng	-0.12
44) 2-Fluorobiphenyl	8.90	172	2188593	105.35	ng	-0.11
78) Terphenyl-d14	12.62	244	1611073	94.66	ng	-0.12

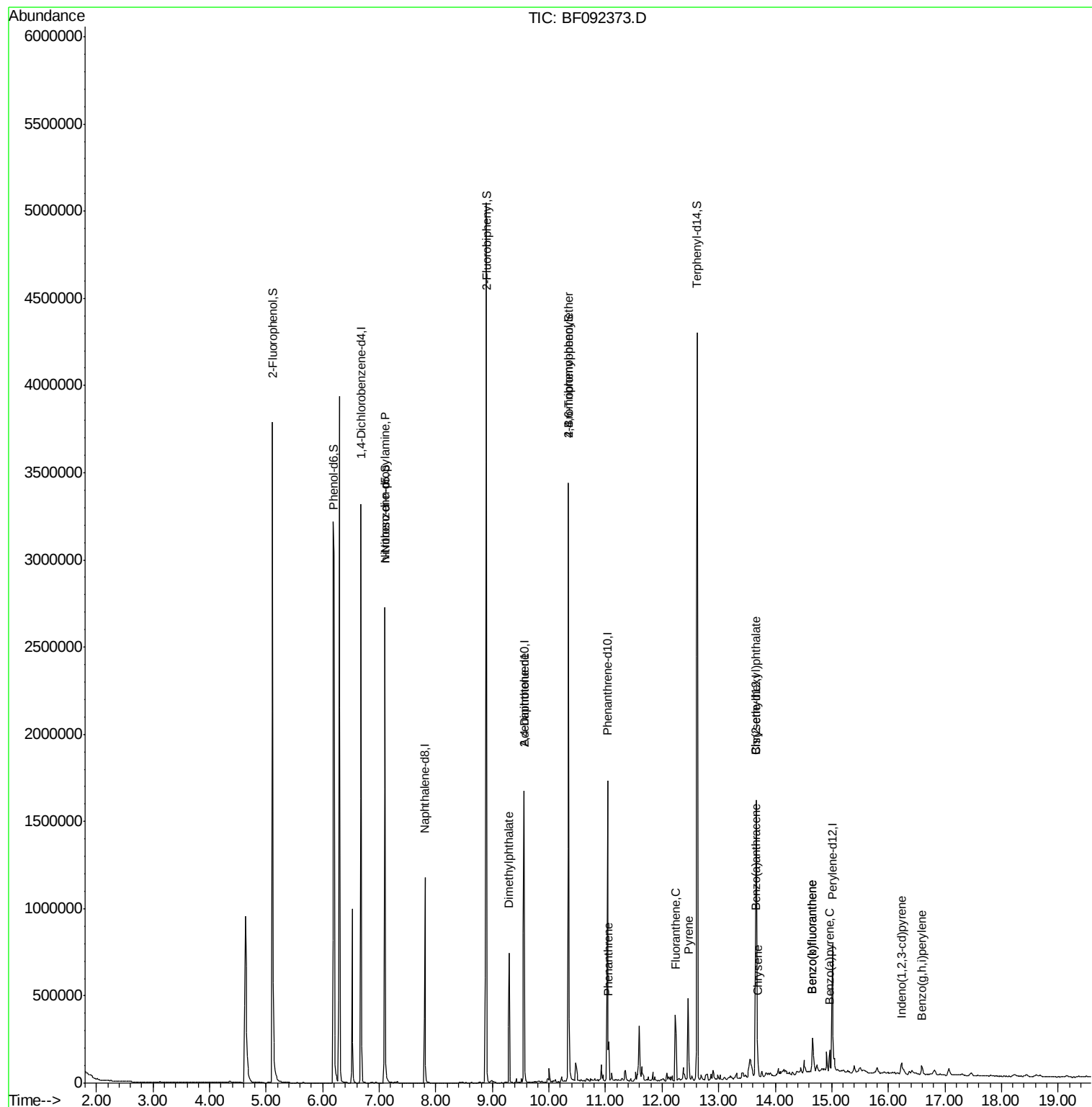
Target Compounds				Qvalue		
9) Benzaldehyde	6.20	77	3268	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.10	70	155337	5.46	ng	# 74
37) 2-Methylnaphthalene	8.53	142	1741	Below Cal		91
49) Dimethylphthalate	9.30	163	365835	13.04	ng	99
56) 2,4-Dinitrotoluene	9.56	165	56519	7.34	ng	# 19
66) 4-Bromophenyl-phenylether	10.35	248	27619	3.97	ng	# 1
70) Phenanthrene	11.06	178	91128	2.52	ng	97
71) Anthracene	11.11	178	15712	Below Cal		95
73) Di-n-butylphthalate	11.62	149	6792	Below Cal	#	93
74) Fluoranthene	12.23	202	200496	2.72	ng	97
76) Benzidine	12.62	184	21924	Below Cal	#	93
77) Pyrene	12.46	202	188215	6.21	ng	98
80) Benzo(a)anthracene	13.65	228	86504	3.71	ng	99
82) Chrysene	13.69	228	67797	2.90	ng	96
83) Bis(2-ethylhexyl)phthalate	13.66	149	154657	9.53	ng	99
85) Indeno(1,2,3-cd)pyrene	16.23	276	45026	2.22	ng	97
87) Benzo(b)fluoranthene	14.66	252	123888	5.46	ng	99
88) Benzo(k)fluoranthene	14.66	252	123888	6.40	ng	99
89) Benzo(a)pyrene	14.97	252	62950	3.13	ng	98
91) Benzo(g,h,i)perylene	16.59	276	42660	2.48	ng	# 91

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 428

Delta R.T. 0.04 min

Lab File: BF092373.D

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Instrument :

BNA_F

ClientSampleId :

1634-NOTTINGHAM-COMP

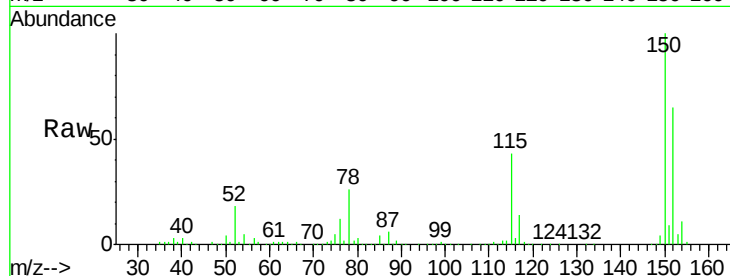
Tgt Ion:152 Resp: 585127

Ion Ratio Lower Upper

152 100

150 154.0 124.9 187.3

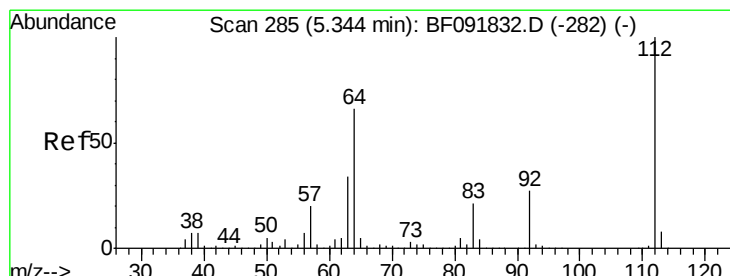
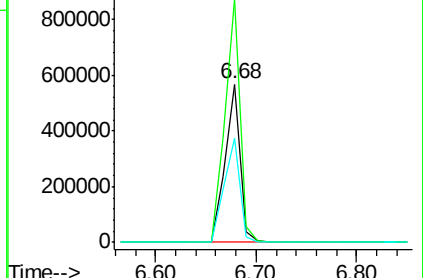
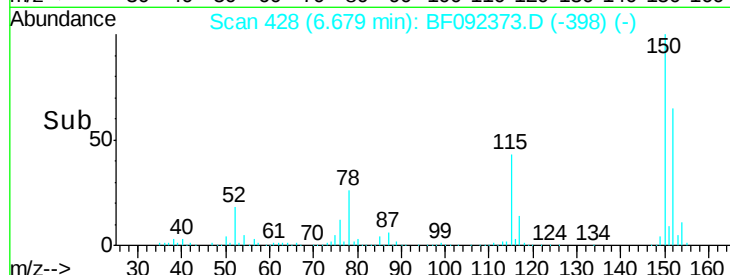
115 65.5 46.0 69.0



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: 39.42 ng

RT: 5.11 min Scan# 291

Delta R.T. -0.12 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

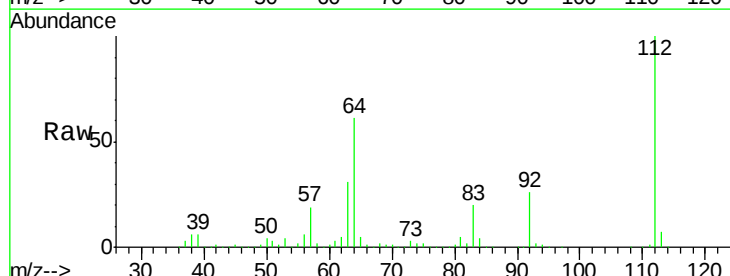
Tgt Ion:112 Resp: 1381499

Ion Ratio Lower Upper

112 100

64 61.1 46.1 69.1

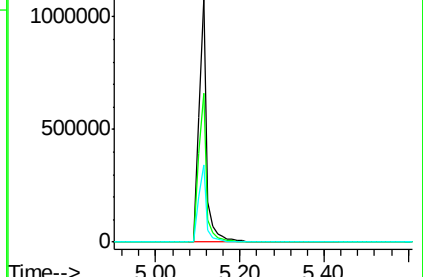
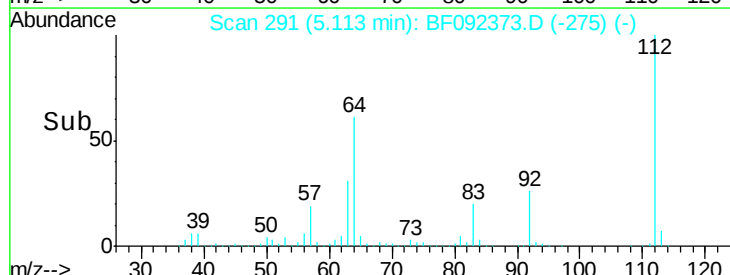
63 31.5 23.8 35.6



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: 43.10 ng

RT: 6.20 min Scan# 386

Delta R.T. -0.11 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

Instrument :

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ClientSampleId :

1634-NOTTINGHAM-COMP

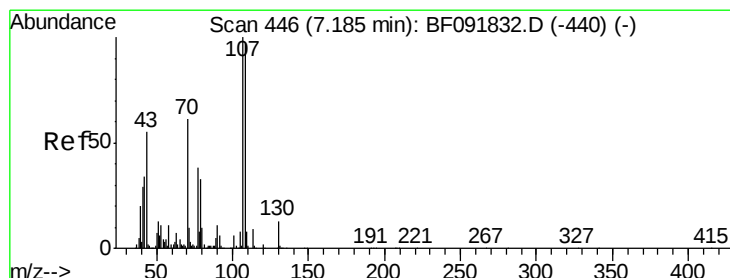
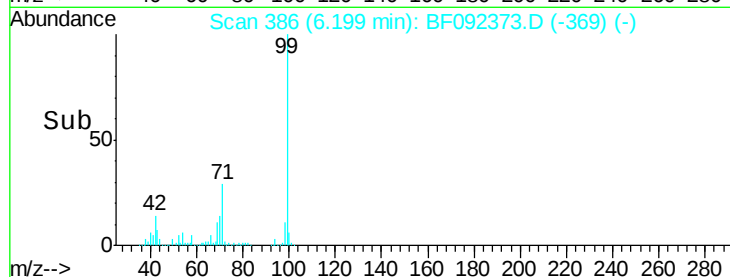
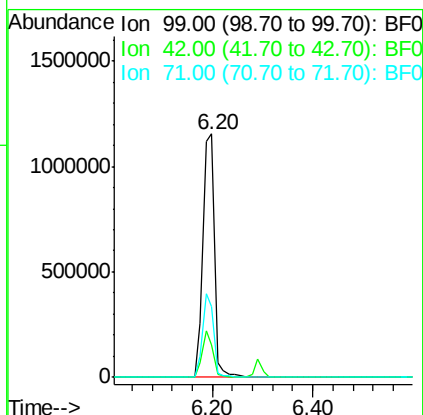
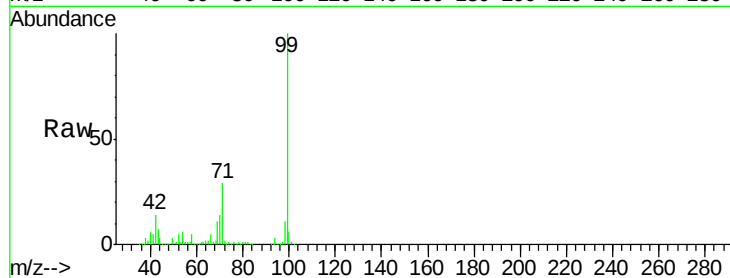
Tgt Ion: 99 Resp: 1843931

Ion Ratio Lower Upper

99 100

42 13.5 15.6 23.4#

71 29.1 27.5 41.3



#19

n-Nitroso-di-n-propylamine

Concen: 5.46 ng

RT: 7.10 min Scan# 465

Delta R.T. 0.03 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

Tgt Ion: 70 Resp: 155337

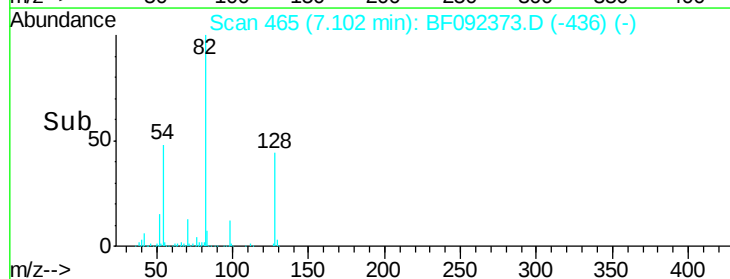
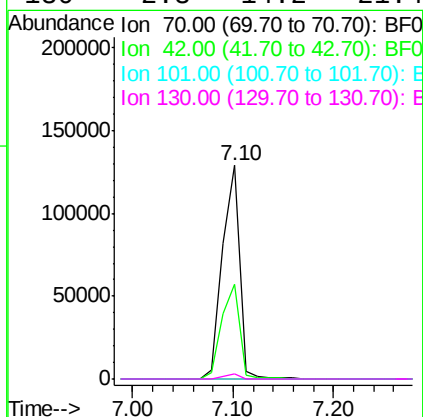
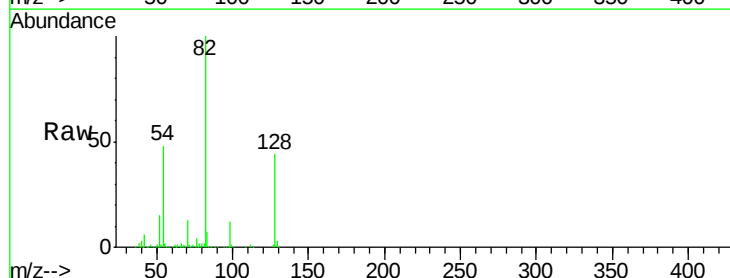
Ion Ratio Lower Upper

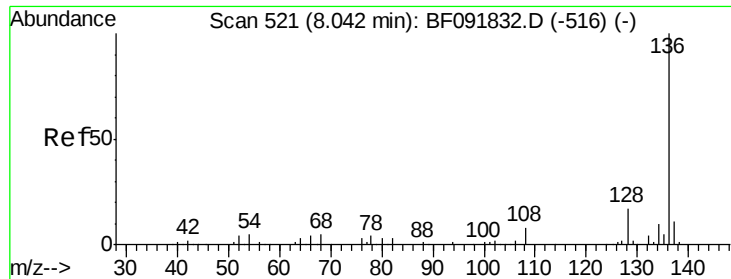
70 100

42 44.2 49.4 74.0#

101 0.0 7.4 11.2#

130 2.3 14.2 21.4#

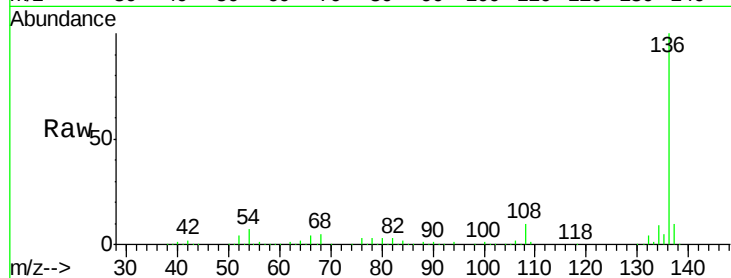




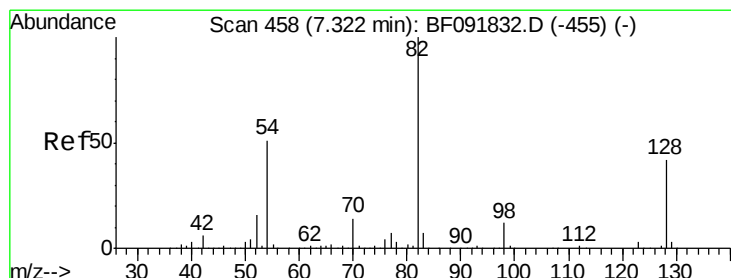
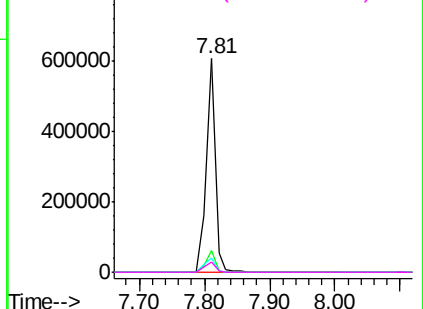
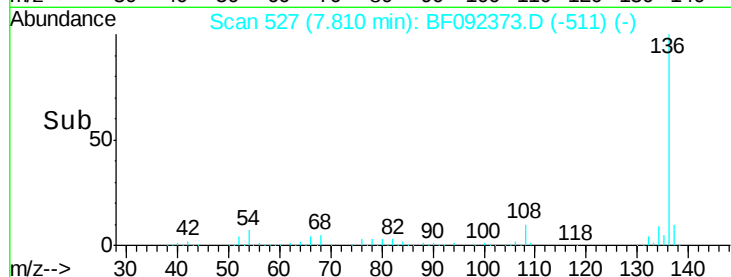
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.81 min Scan# 527
Delta R.T. -0.12 min
Lab File: BF092373.D
Acq: 20 Jan 2017 15:21

Instrument :
BNA_F
ClientSampleId :
1634-NOTTINGHAM-COMP

Tgt Ion:	136	Resp:	578221
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.4	12.6
54	6.6	4.5	6.7
68	4.9	3.6	5.4

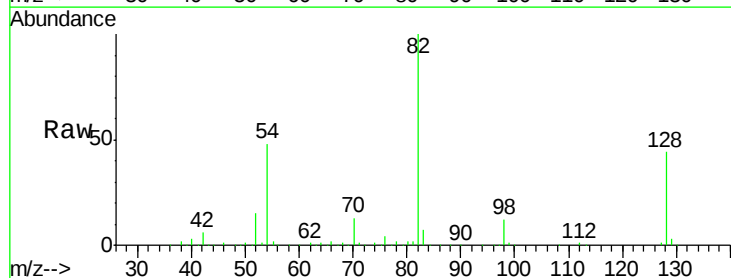


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

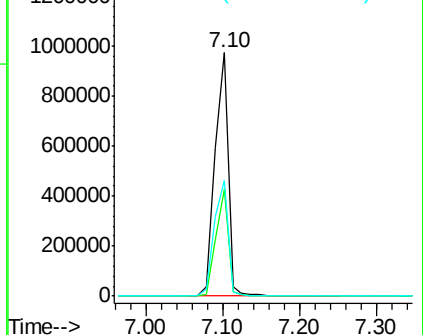
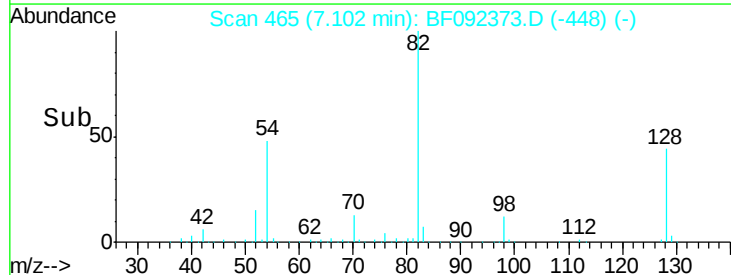


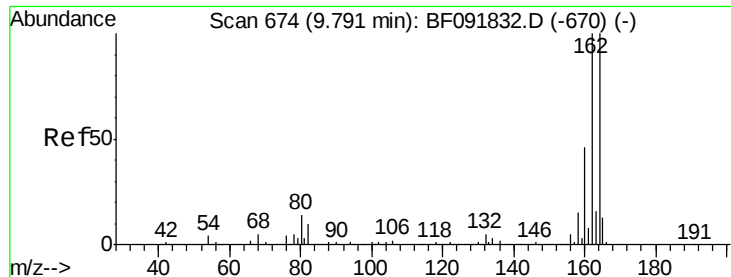
#23
Nitrobenzene-d5
Concen: 111.16 ng
RT: 7.10 min Scan# 465
Delta R.T. -0.11 min
Lab File: BF092373.D
Acq: 20 Jan 2017 15:21

Tgt Ion:	82	Resp:	1155943
Ion	Ratio	Lower	Upper
82	100		
128	43.8	34.6	52.0
54	47.6	39.5	59.3



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

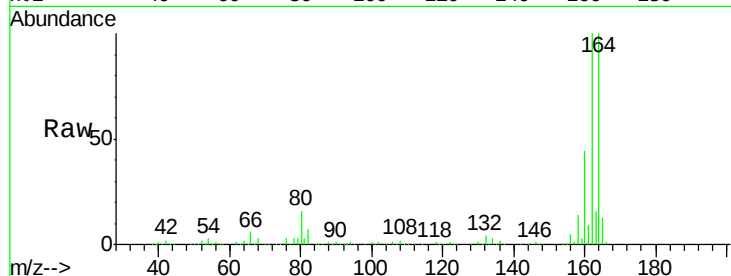




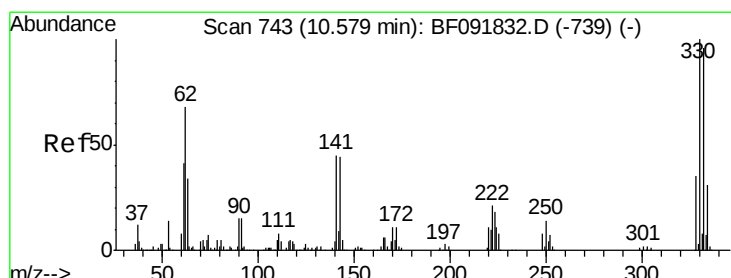
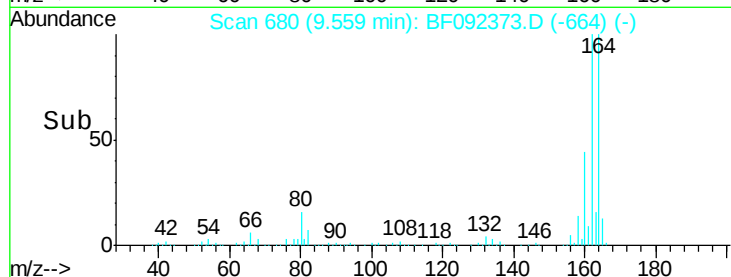
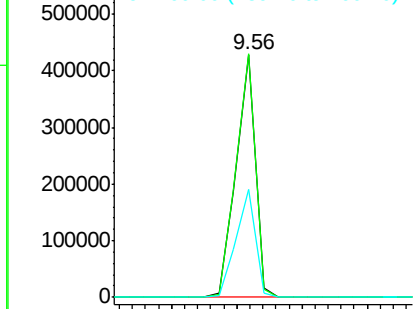
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.56 min Scan# 680
Delta R.T. -0.12 min
Lab File: BF092373.D
Acq: 20 Jan 2017 15:21

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ClientSampleId :
1634-NOTTINGHAM-COMP

Tgt Ion:164 Resp: 438504
Ion Ratio Lower Upper
164 100
162 100.4 80.2 120.2
160 44.5 36.9 55.3

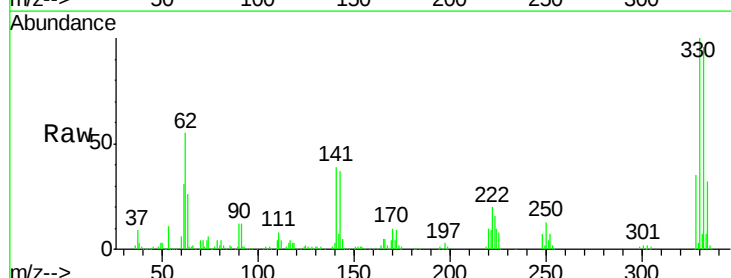


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

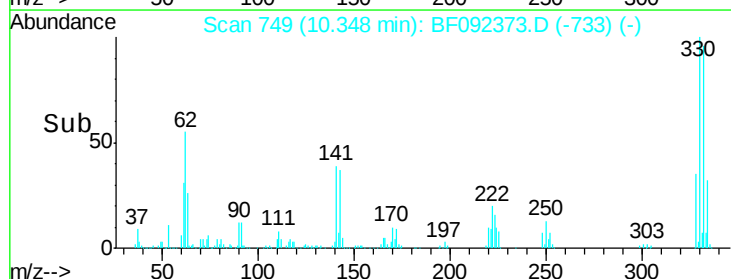
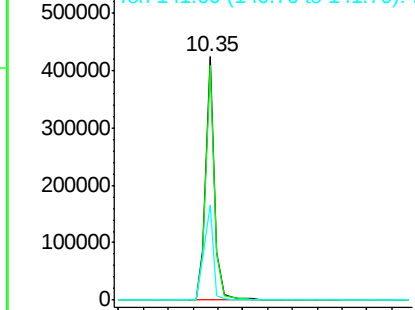


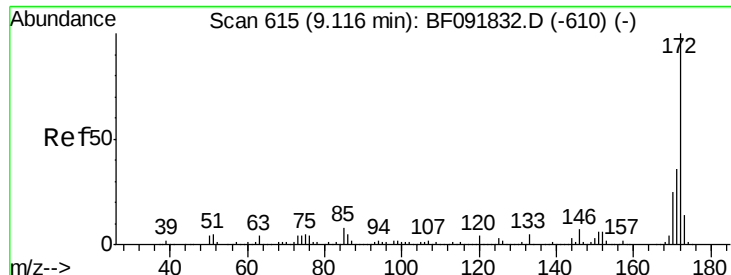
#41
2,4,6-Tribromophenol
Concen: 117.39 ng
RT: 10.35 min Scan# 749
Delta R.T. -0.12 min
Lab File: BF092373.D
Acq: 20 Jan 2017 15:21

Tgt Ion:330 Resp: 425986
Ion Ratio Lower Upper
330 100
332 96.0 77.4 116.2
141 40.9 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

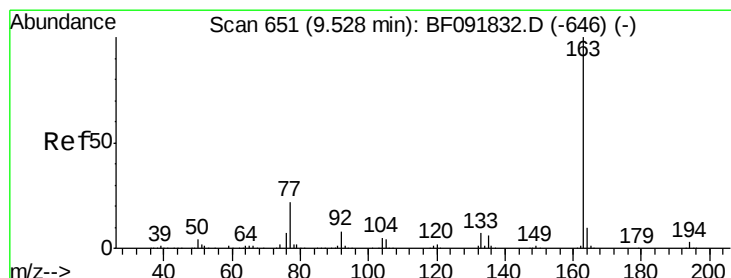
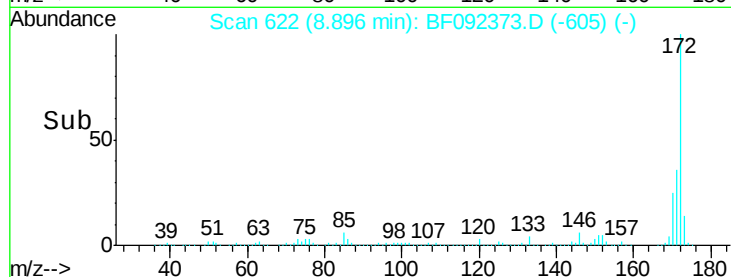
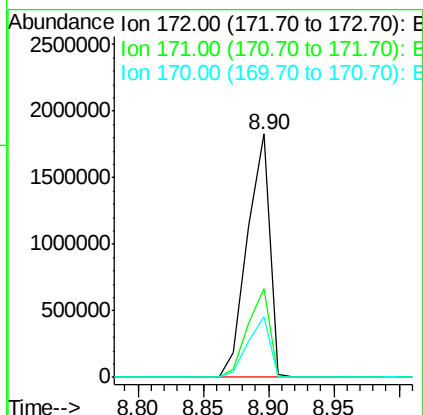
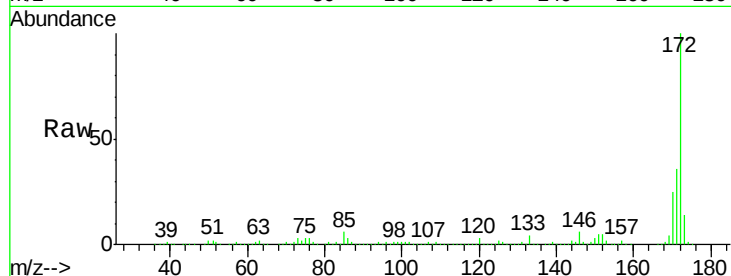




#44
 2-Fluorobiphenyl
 Concen: 105.35 ng
 RT: 8.90 min Scan# 622
 Delta R.T. -0.11 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

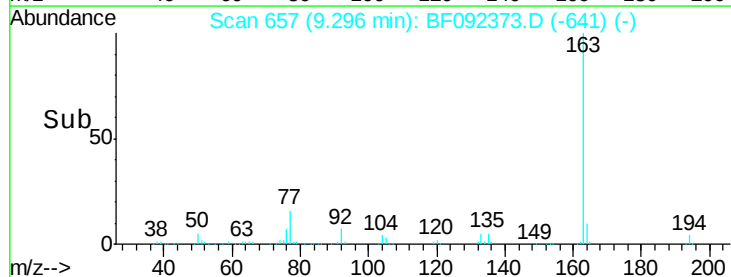
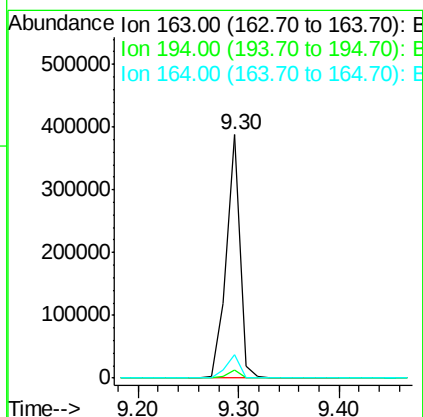
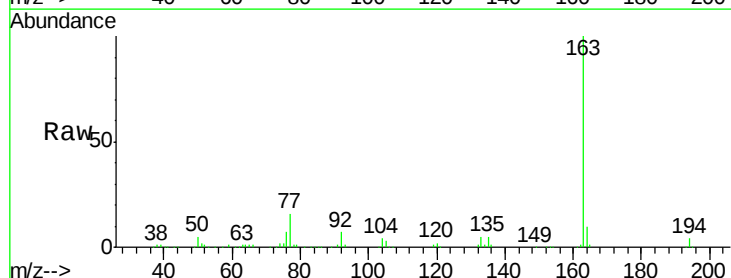
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 1634-NOTTINGHAM-COMP

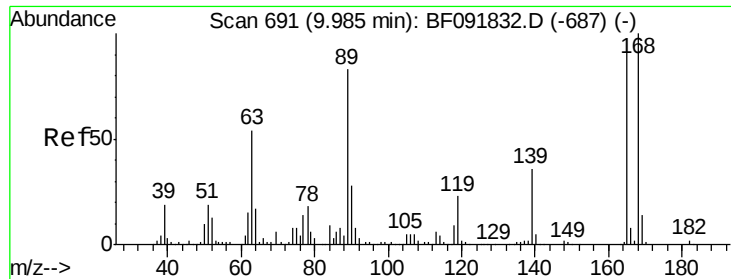
Tgt Ion:172 Resp: 2188593
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.4 44.0
 170 24.8 20.2 30.4



#49
 Dimethylphthalate
 Concen: 13.04 ng
 RT: 9.30 min Scan# 657
 Delta R.T. -0.12 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

Tgt Ion:163 Resp: 365835
 Ion Ratio Lower Upper
 163 100
 194 3.6 3.0 4.4
 164 9.6 8.0 12.0

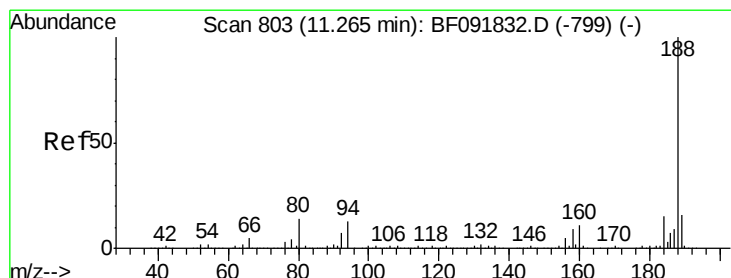
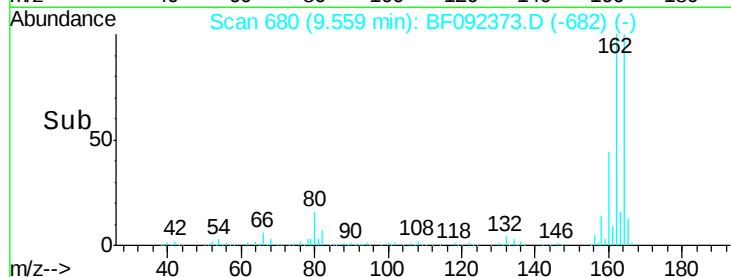
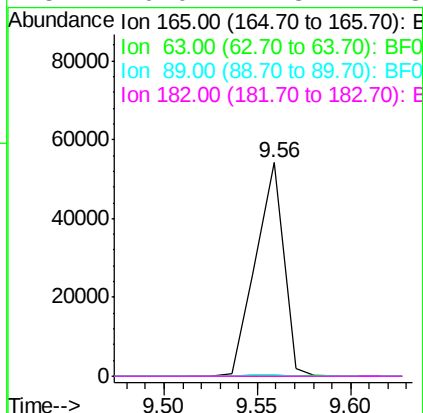
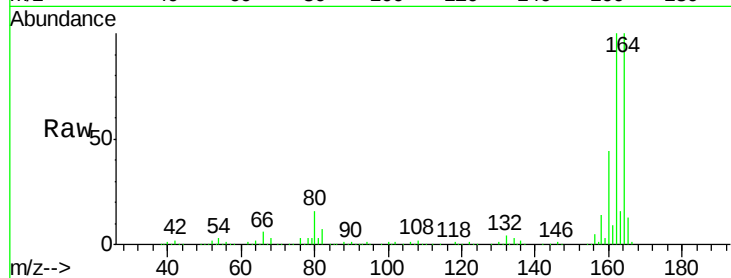




#56
 2,4-Dinitrotoluene
 Concen: 7.34 ng
 RT: 9.56 min Scan# 680
 Delta R.T. -0.33 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

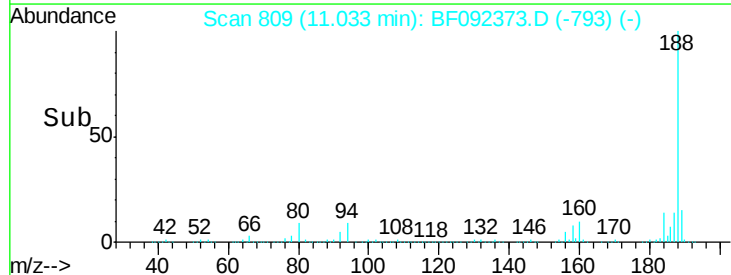
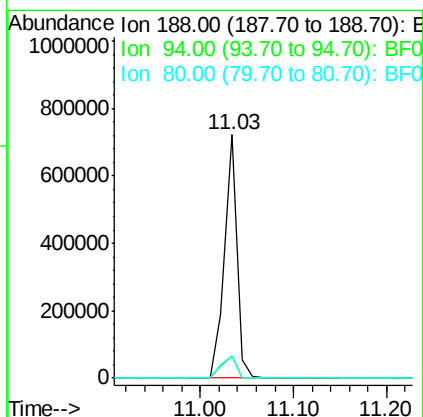
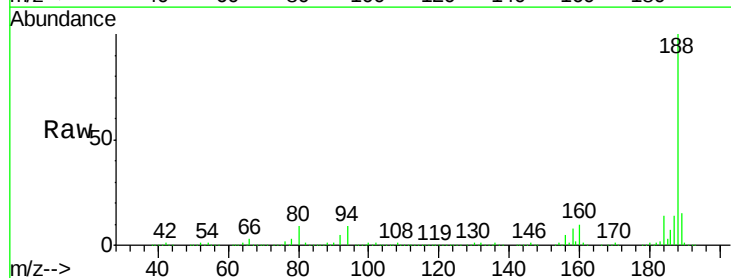
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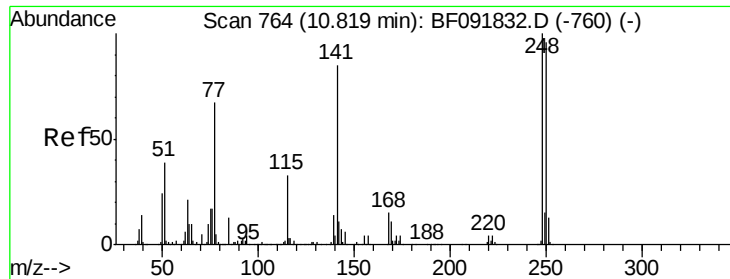
Tgt Ion:	165	Resp:	56519
Ion	Ratio	Lower	Upper
165	100		
63	0.6	40.2	60.4#
89	0.9	62.5	93.7#
182	0.0	1.8	2.8#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.03 min Scan# 809
 Delta R.T. -0.12 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

Tgt Ion:	188	Resp:	667979
Ion	Ratio	Lower	Upper
188	100		
94	9.1	10.0	15.0#
80	9.2	11.2	16.8#

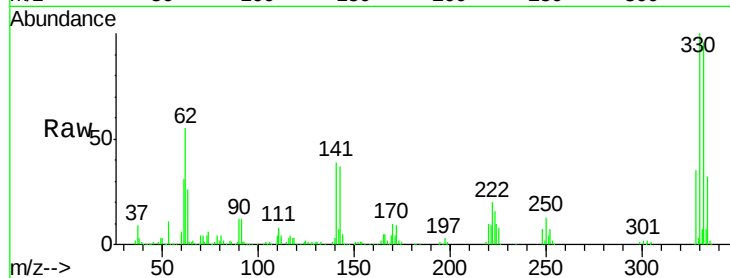




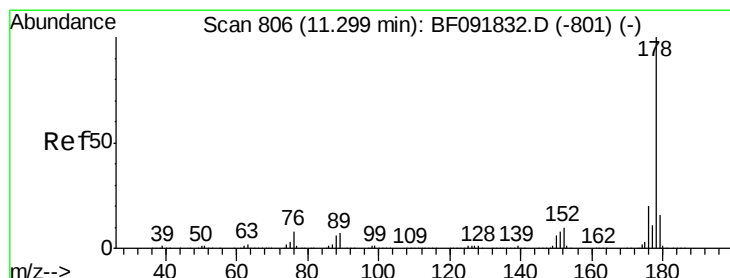
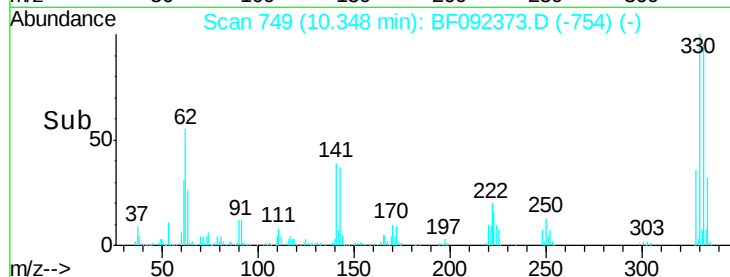
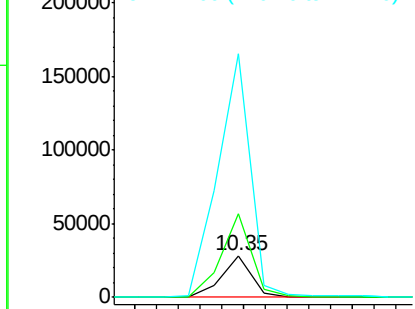
#66
 4-Bromophenyl-phenylether
 Concen: 3.97 ng
 RT: 10.35 min Scan# 749
 Delta R.T. -0.36 min
 Lab File: BF092373.D
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Instrument :
 BNA_F
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 1634-NOTTINGHAM-COMP

Tgt Ion:248 Resp: 27619
 Ion Ratio Lower Upper
 248 100
 250 201.1 76.9 115.3#
 141 584.0 68.2 102.4#

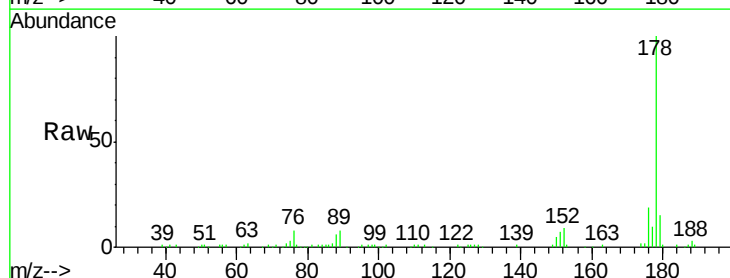


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

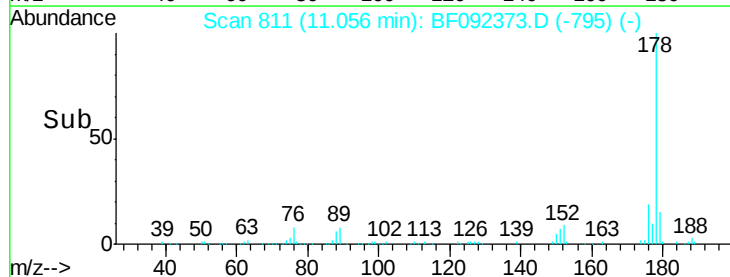
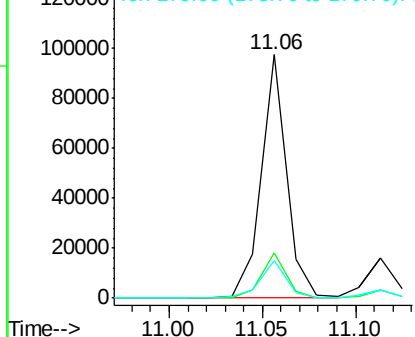


#70
 Phenanthrene
 Concen: 2.52 ng
 RT: 11.06 min Scan# 811
 Delta R.T. -0.12 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

Tgt Ion:178 Resp: 91128
 Ion Ratio Lower Upper
 178 100
 176 18.5 16.6 25.0
 179 15.4 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





#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.62 min Scan# 860

Delta R.T. -0.11 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

Instrument :

BNA_F

ClientSampleId :

1634-NOTTINGHAM-COMP

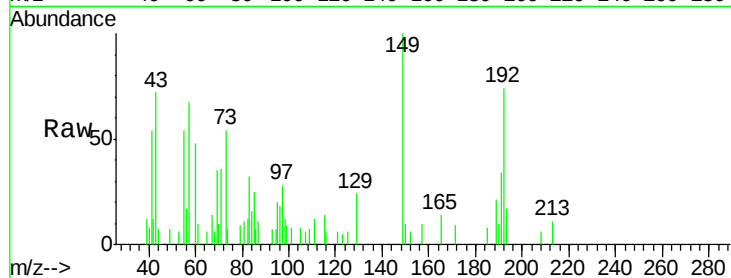
Tgt Ion:149 Resp: 6792

Ion Ratio Lower Upper

149 100

150 10.4 8.1 12.1

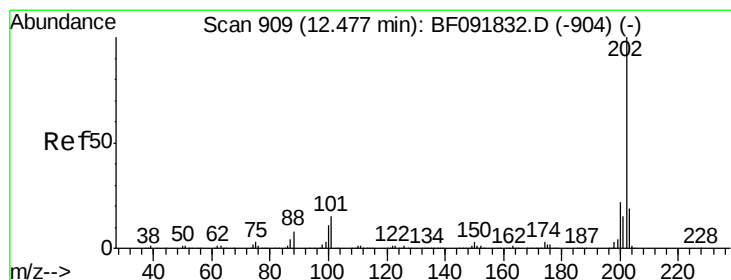
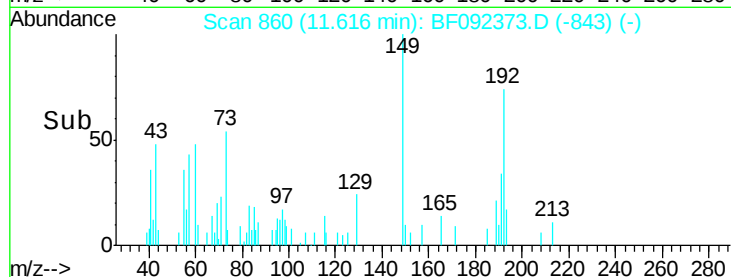
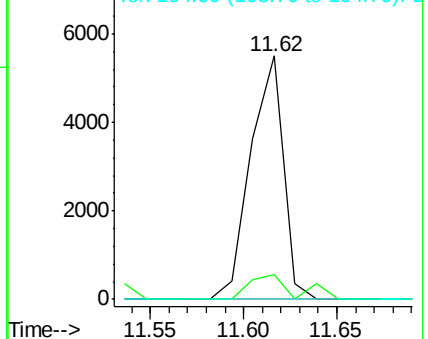
104 0.0 4.6 7.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 2.72 ng

RT: 12.23 min Scan# 914

Delta R.T. -0.13 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

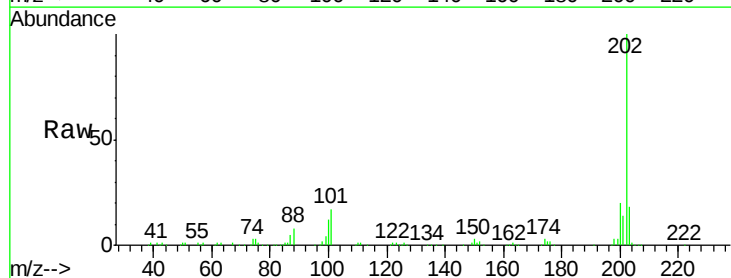
Tgt Ion:202 Resp: 200496

Ion Ratio Lower Upper

202 100

101 17.1 0.0 34.6

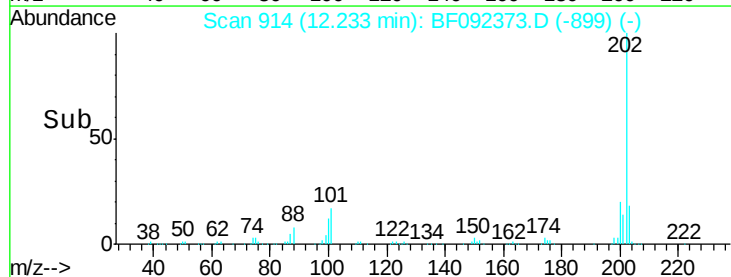
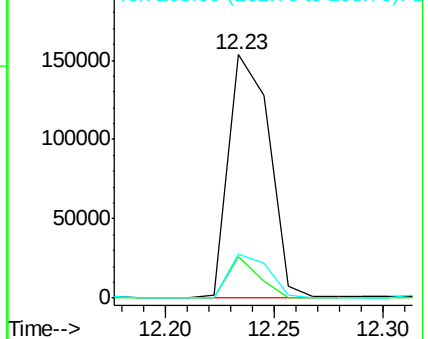
203 18.1 0.0 38.7

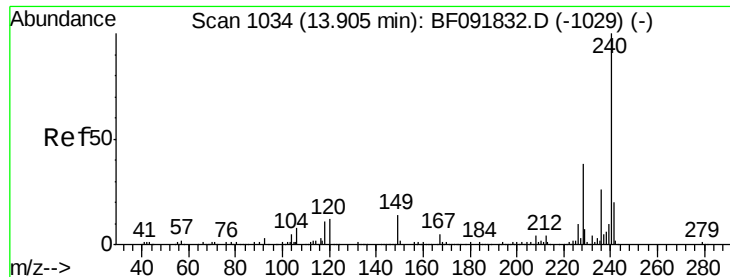


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.66 min Scan# 1039

Delta R.T. -0.12 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

Instrument :

BNA_F

ClientSampleId :

1634-NOTTINGHAM-COMP

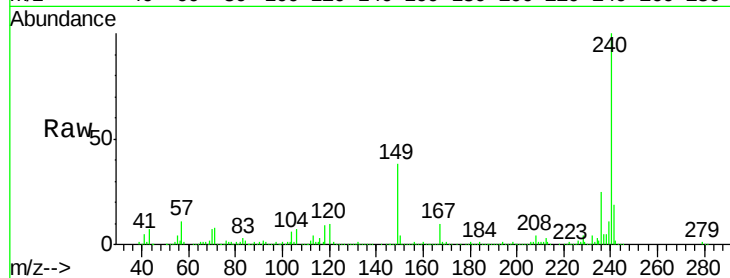
Tgt Ion:240 Resp: 412790

Ion Ratio Lower Upper

240 100

120 9.9 12.9 19.3#

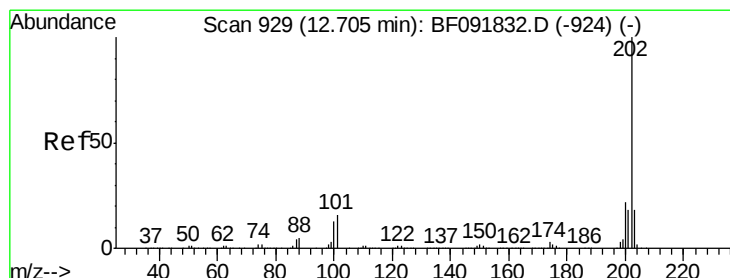
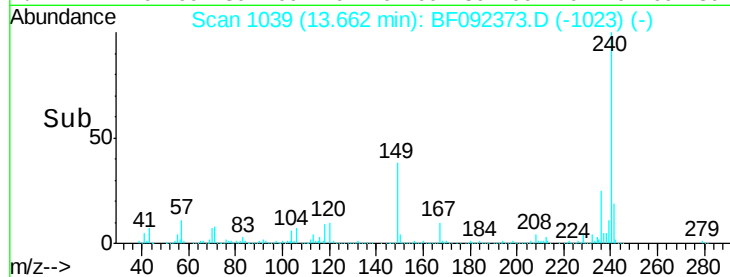
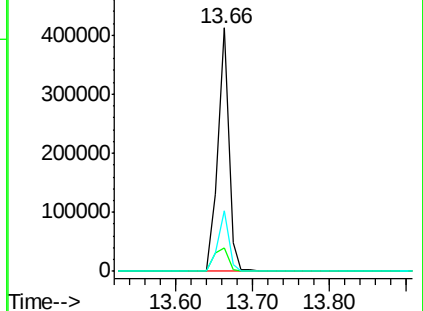
236 25.1 20.9 31.3



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: 6.21 ng

RT: 12.46 min Scan# 934

Delta R.T. -0.12 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

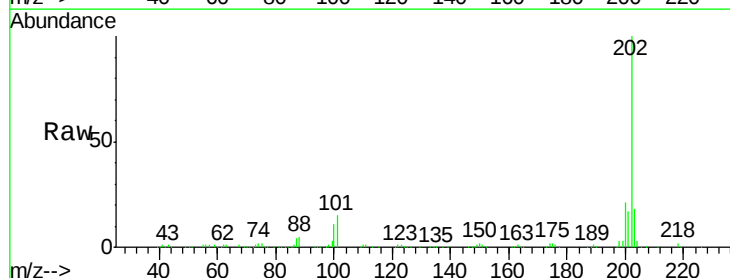
Tgt Ion:202 Resp: 188215

Ion Ratio Lower Upper

202 100

200 20.5 17.7 26.5

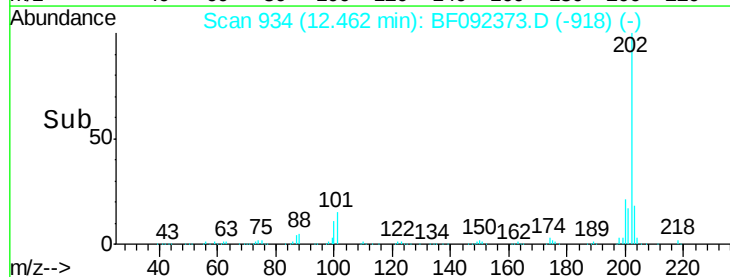
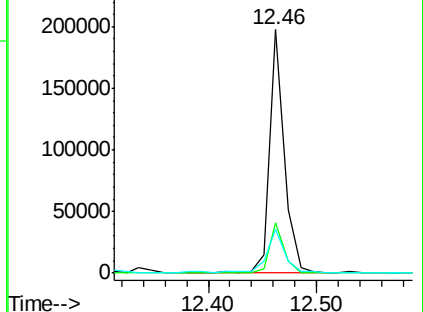
203 18.2 14.7 22.1

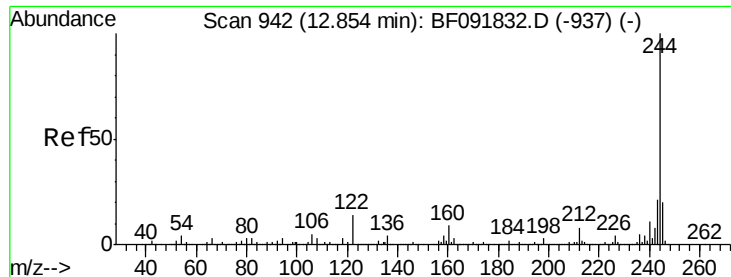


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

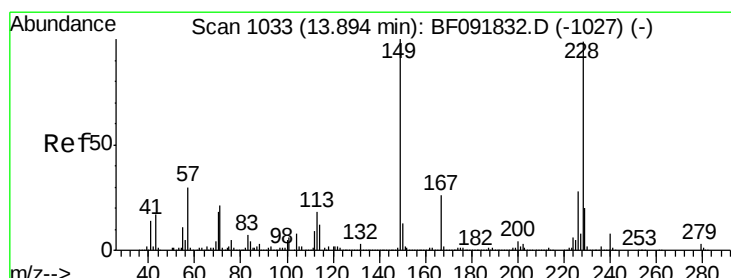
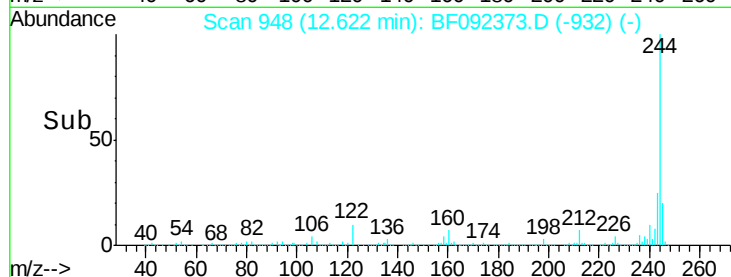
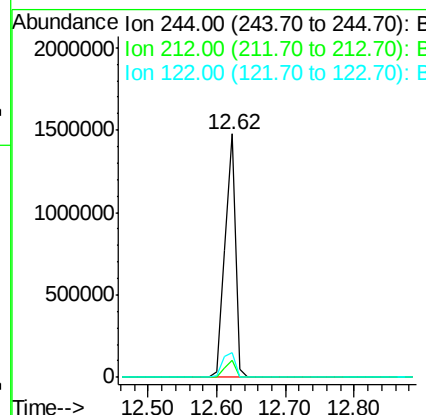
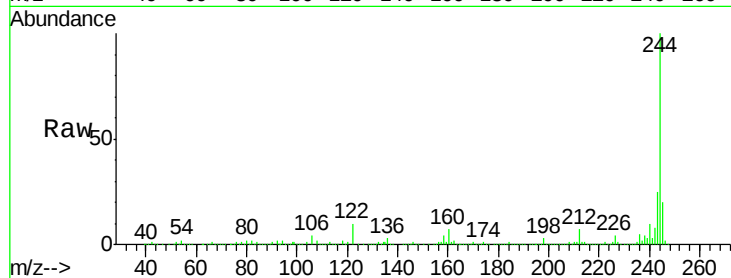




#78
 Terphenyl-d14
 Concen: 94.66 ng
 RT: 12.62 min Scan# 948
 Delta R.T. -0.12 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

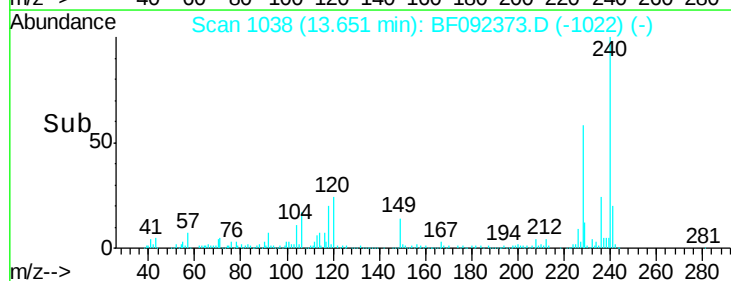
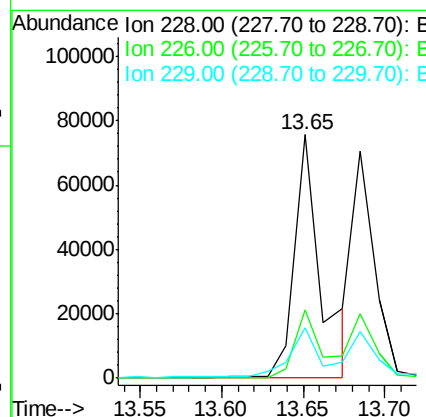
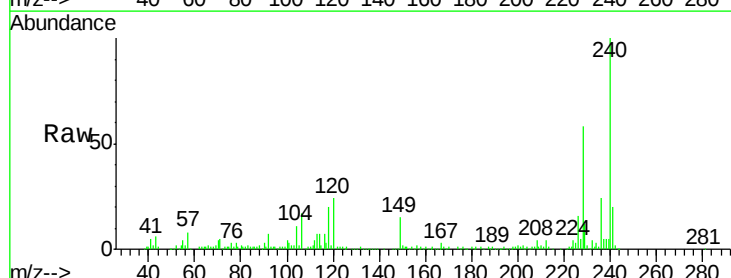
Instrument :
 BNA_F
 ClientSampleId :
 1634-NOTTINGHAM-COMP

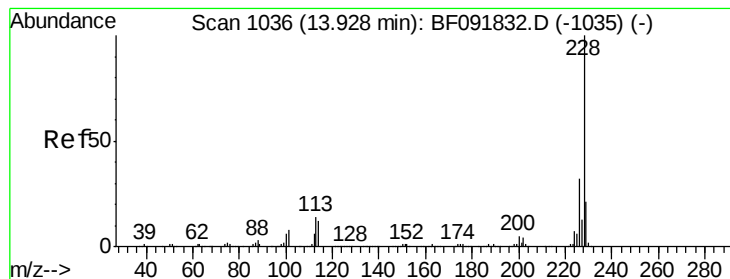
Tgt Ion:244 Resp: 1611073
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.2 9.2
 122 10.3 11.4 17.2#



#80
 Benzo(a)anthracene
 Concen: 3.71 ng
 RT: 13.65 min Scan# 1038
 Delta R.T. -0.12 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

Tgt Ion:228 Resp: 86504
 Ion Ratio Lower Upper
 228 100
 226 28.2 22.4 33.6
 229 20.7 16.2 24.4





#82

Chrysene

Concen: 2.90 ng

RT: 13.69 min Scan# 1041

Delta R.T. -0.12 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

Instrument :

BNA_F

ClientSampleId :

1634-NOTTINGHAM-COMP

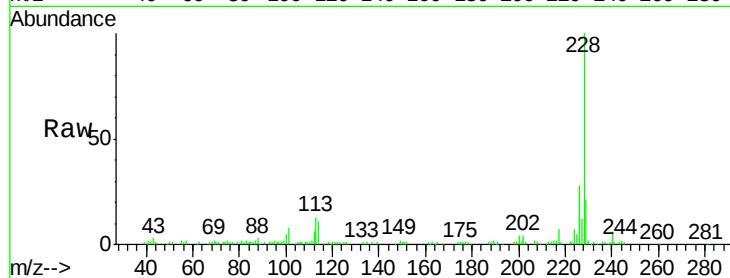
Tgt Ion:228 Resp: 67797

Ion Ratio Lower Upper

228 100

226 28.5 25.4 38.0

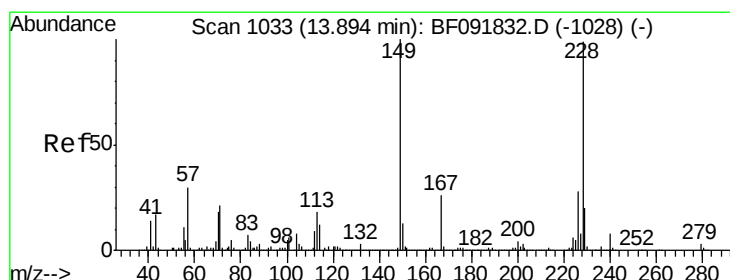
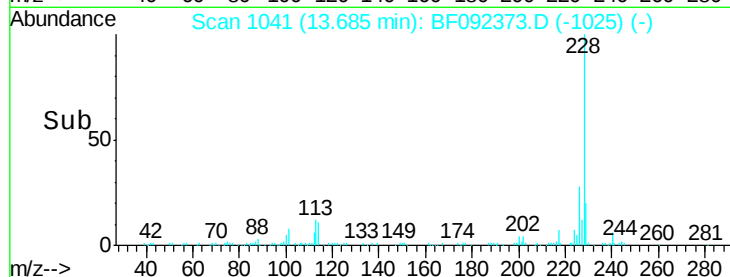
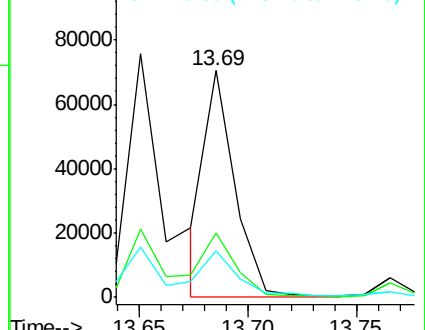
229 20.6 16.2 24.2



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 9.53 ng

RT: 13.66 min Scan# 1039

Delta R.T. -0.12 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

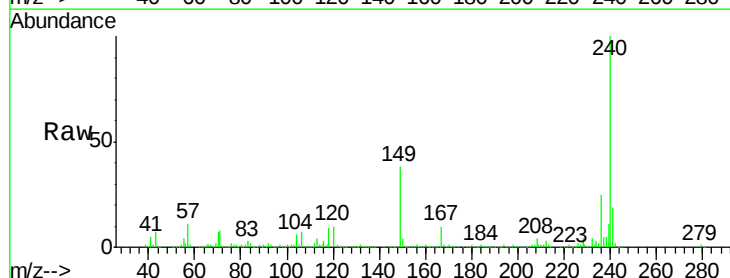
Tgt Ion:149 Resp: 154657

Ion Ratio Lower Upper

149 100

167 25.9 20.2 30.4

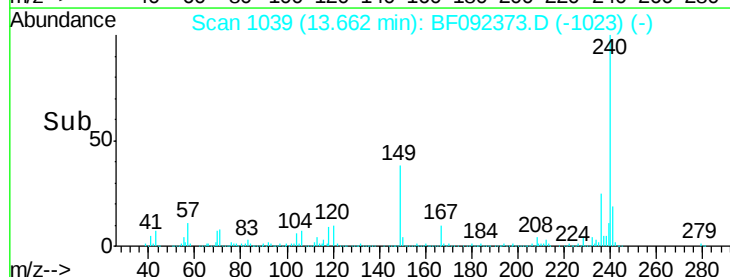
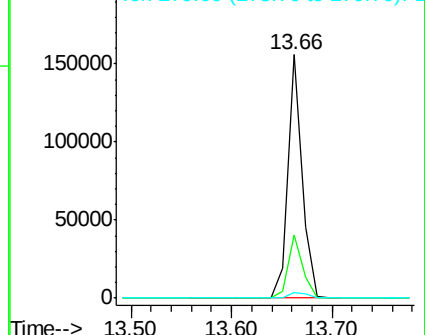
279 2.4 1.8 2.8

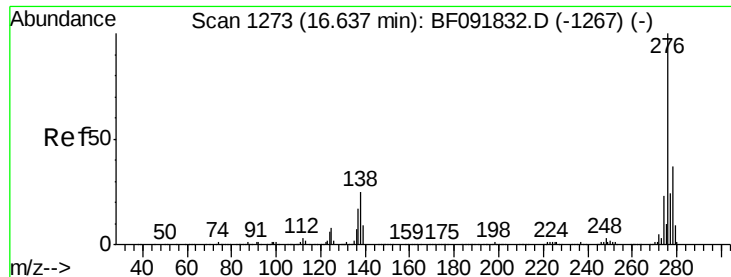


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

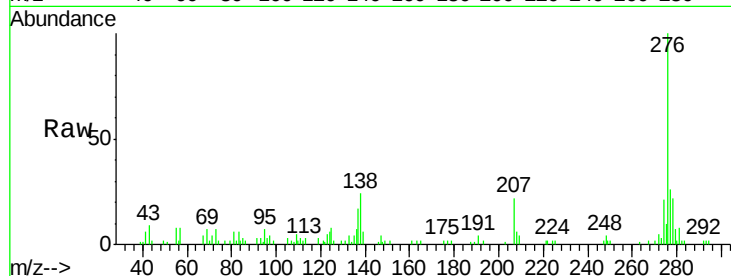




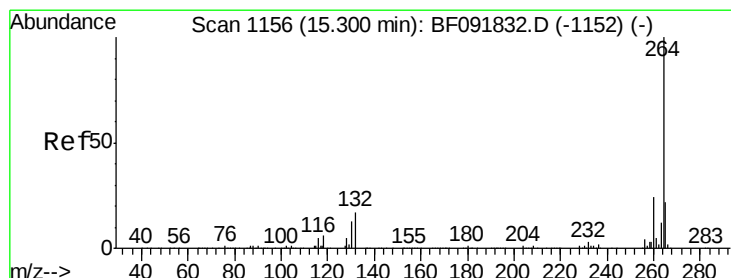
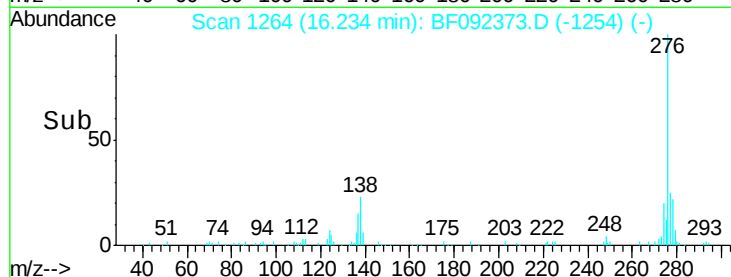
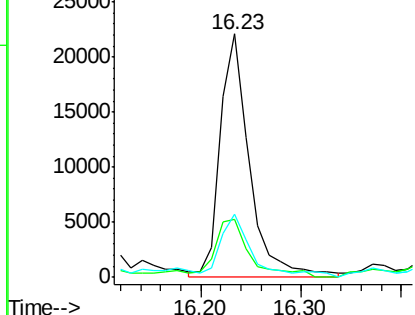
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.22 ng
 RT: 16.23 min Scan# 1264
 Delta R.T. -0.19 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

Instrument :
 BNA_F
 ClientSampleId :
 1634-NOTTINGHAM-COMP

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.1	21.8	32.6
277	27.9	20.2	30.4

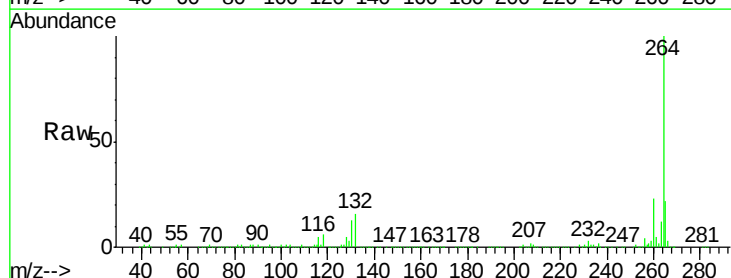


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

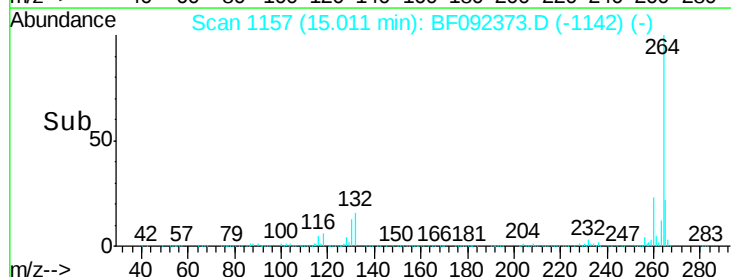
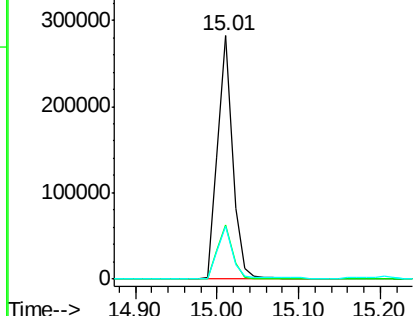


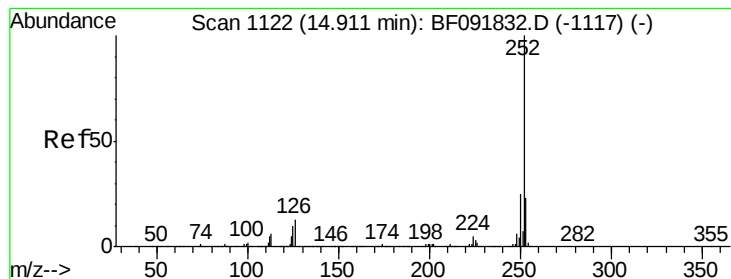
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.01 min Scan# 1157
 Delta R.T. -0.13 min
 Lab File: BF092373.D
 Acq: 20 Jan 2017 15:21

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.2	28.8
265	21.7	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





#87

Benzo(b)fluoranthene

Concen: 5.46 ng

RT: 14.66 min Scan# 1126

Delta R.T. -0.12 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

Instrument :

BNA_F

ClientSampleId :

1634-NOTTINGHAM-COMP

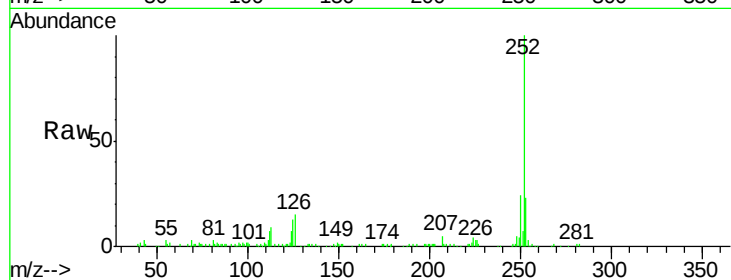
Tgt Ion:252 Resp: 123888

Ion Ratio Lower Upper

252 100

253 23.2 18.2 27.4

125 12.6 9.8 14.6



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

100000

80000

60000

40000

20000

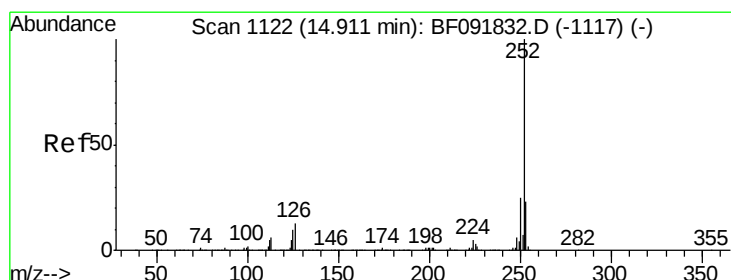
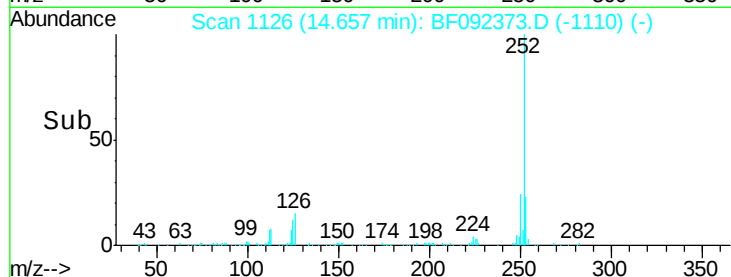
0

14.66

14.60

14.70

Time-->



#88

Benzo(k)fluoranthene

Concen: 6.40 ng

RT: 14.66 min Scan# 1126

Delta R.T. -0.15 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

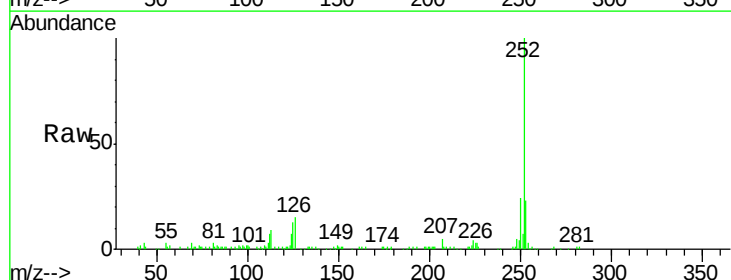
Tgt Ion:252 Resp: 123888

Ion Ratio Lower Upper

252 100

253 23.2 18.5 27.7

125 12.6 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

100000

80000

60000

40000

20000

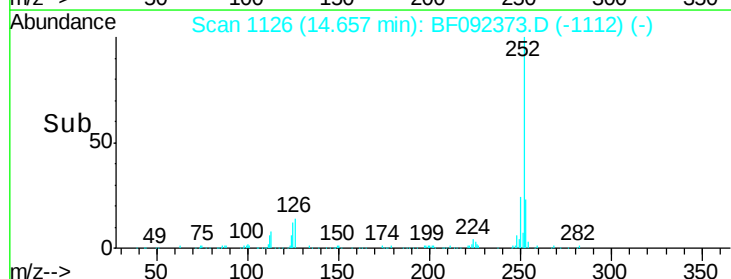
0

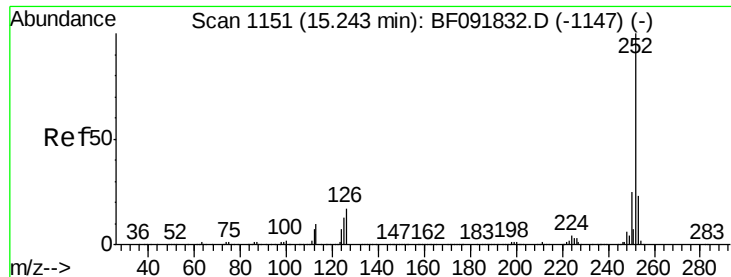
14.66

14.60

14.70

Time-->





#89

Benzo(a)pyrene

Concen: 3.13 ng

RT: 14.97 min Scan# 1153

Delta R.T. -0.13 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

Instrument :

BNA_F

ClientSampleId :

1634-NOTTINGHAM-COMP

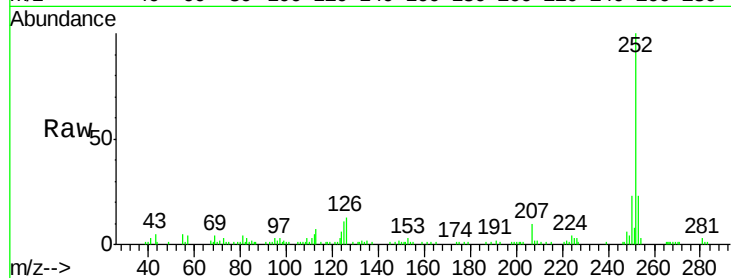
Tgt Ion:252 Resp: 62950

Ion Ratio Lower Upper

252 100

253 22.9 18.2 27.2

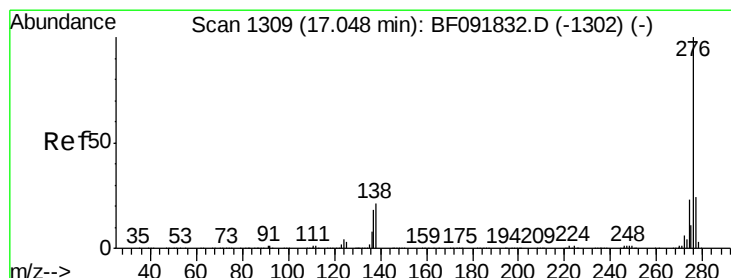
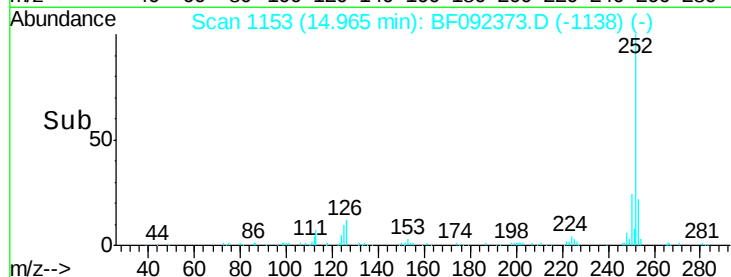
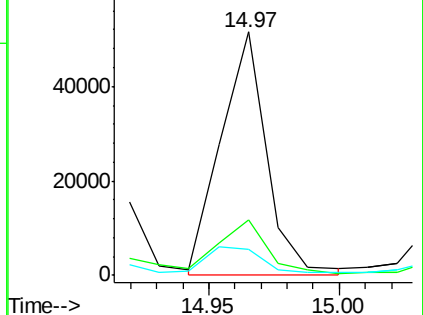
125 10.9 10.0 15.0



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(g,h,i)perylene

Concen: 2.48 ng

RT: 16.59 min Scan# 1295

Delta R.T. -0.21 min

Lab File: BF092373.D

Acq: 20 Jan 2017 15:21

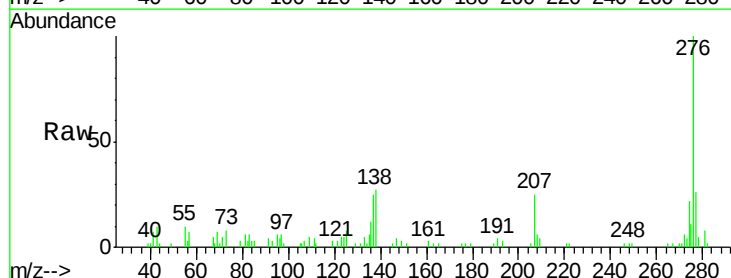
Tgt Ion:276 Resp: 42660

Ion Ratio Lower Upper

276 100

277 25.6 19.2 28.8

138 27.5 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

