

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081517\
 Data File : BF097723.D
 Acq On : 16 Aug 2017 6:51
 Operator : SJ/JU
 Sample : I4751-08 5X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-28-COMP

Quant Time: Aug 16 07:42:28 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

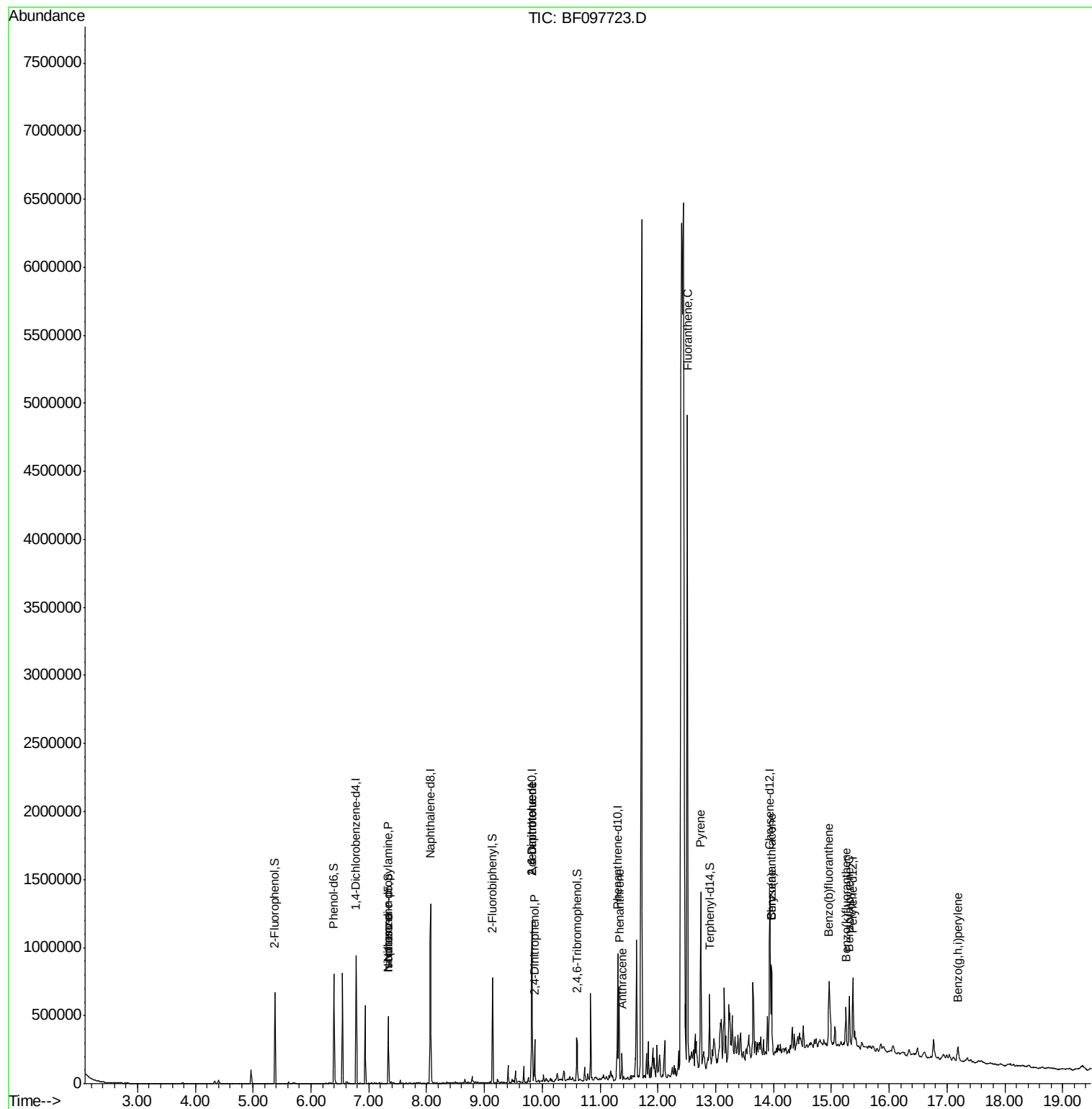
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	132535	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	509915	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	200278	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	308171	20.00	ng	0.00
75) Chrysene-d12	13.94	240	292488	20.00	ng	0.00
86) Perylene-d12	15.37	264	231363	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	174811	20.06	ng	0.00
7) Phenol-d6	6.40	99	241639	20.41	ng	-0.01
23) Nitrobenzene-d5	7.34	82	135456	14.43	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	25404	14.62	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	216832	15.91	ng	0.00
78) Terphenyl-d14	12.89	244	133447	9.51	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.34	70	18368	2.27	ng	# 73
25) Isophorone	7.34	82	135067	6.92	ng	# 67
50) 2,6-Dinitrotoluene	9.82	165	26490	9.07	ng	# 34
53) 2,4-Dinitrophenol	9.87	184	351	10.36	ng	# 4
56) 2,4-Dinitrotoluene	9.82	165	26490	7.22	ng	# 34
70) Phenanthrene	11.33	178	224294	13.66	ng	98
71) Anthracene	11.37	178	61818	3.71	ng	97
74) Fluoranthene	12.52	202	389734	22.74	ng	93
77) Pyrene	12.75	202	437405	18.28	ng	97
80) Benzo(a)anthracene	13.96	228	257286	14.68	ng	95
82) Chrysene	13.96	228	257286	14.75	ng	97
87) Benzo(b)fluoranthene	14.96	252	345780	23.71	ng	99
88) Benzo(k)fluoranthene	15.25	252	118595	8.66	ng	98
89) Benzo(a)pyrene	15.31	252	167624	12.98	ng	99
91) Benzo(a,h,i)perylene	17.19	276	77888	7.10	ng	94

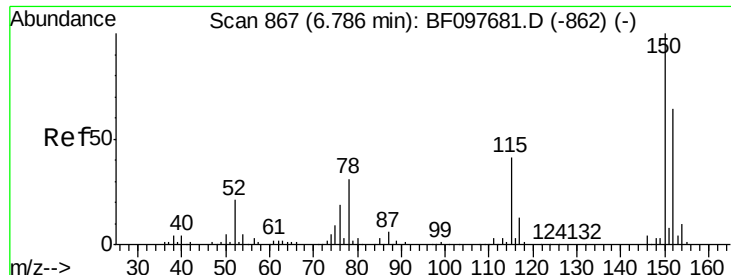
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.79 min Scan# 799

Delta R.T. 0.00 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Instrument :

BNA_F

ClientSampleId :

SB-28-COMP

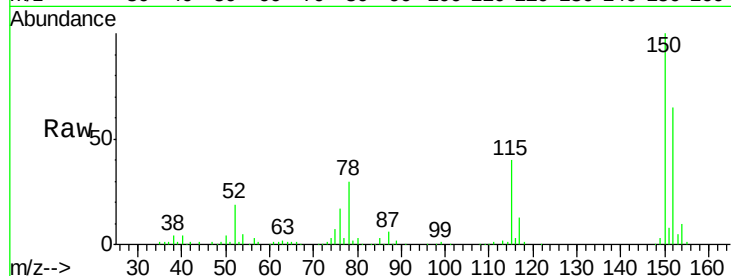
Tot Ion:152 Resp: 132535

Ion Ratio Lower Upper

152 100

150 154.9 126.2 189.2

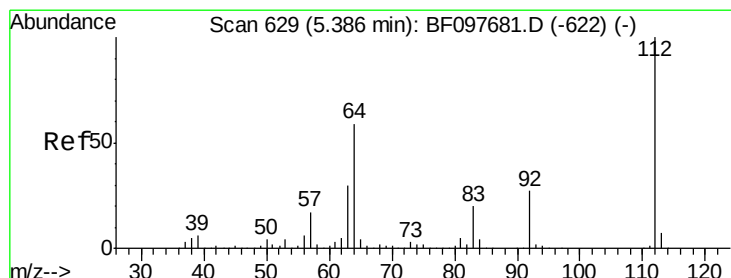
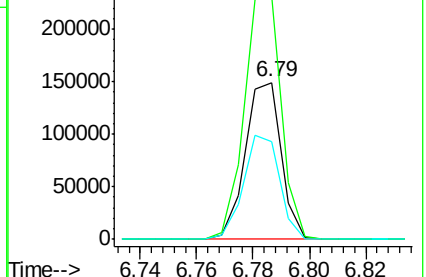
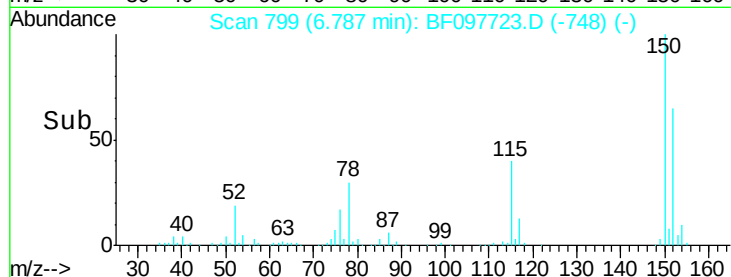
115 62.1 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 20.06 ng

RT: 5.38 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

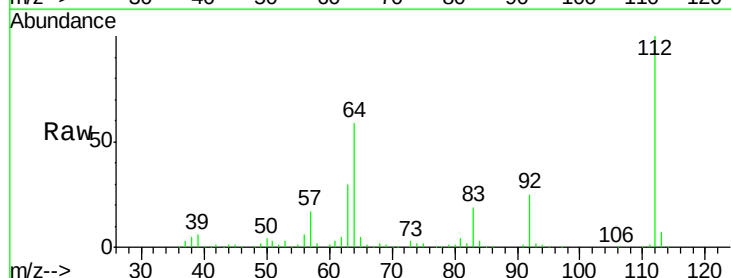
Tgt Ion:112 Resp: 174811

Ion Ratio Lower Upper

112 100

64 59.4 46.0 69.0

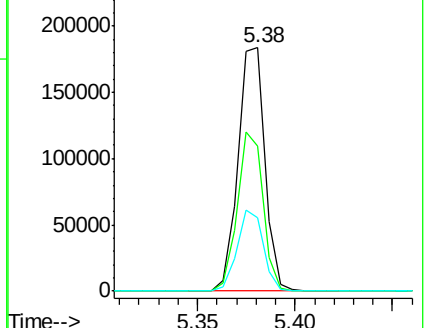
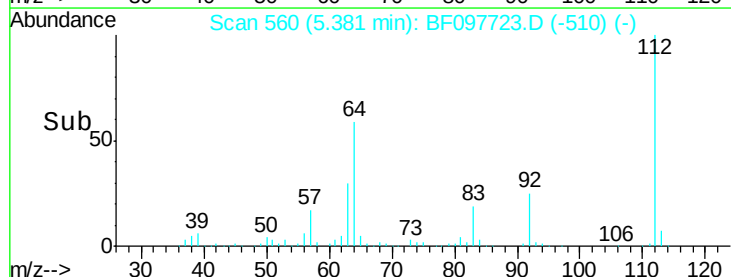
63 29.9 23.4 35.0

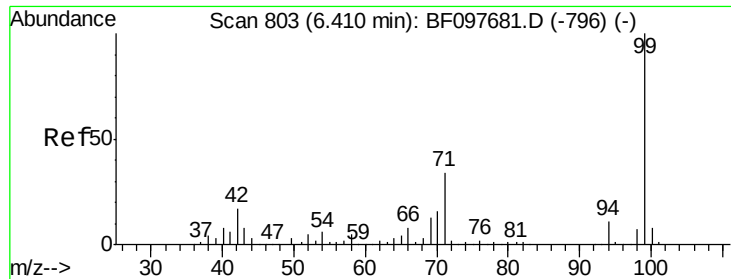


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 20.41 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Instrument :

BNA_F

ClientSampleId :

SB-28-COMP

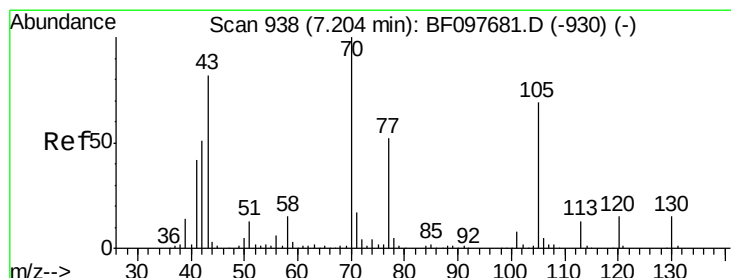
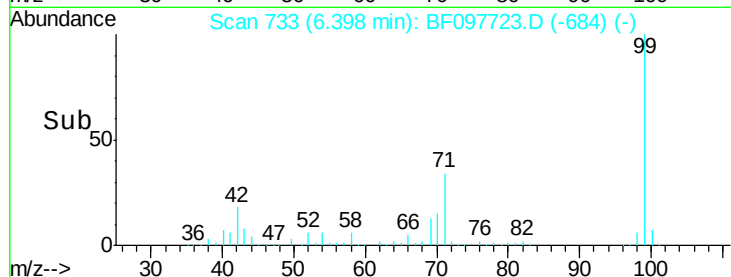
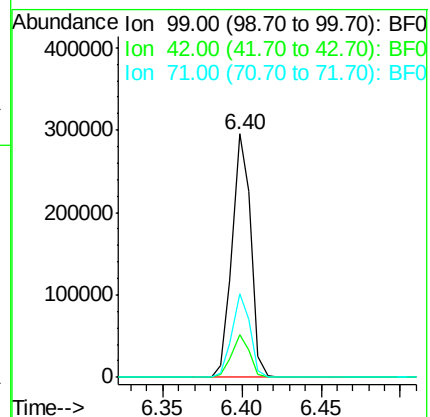
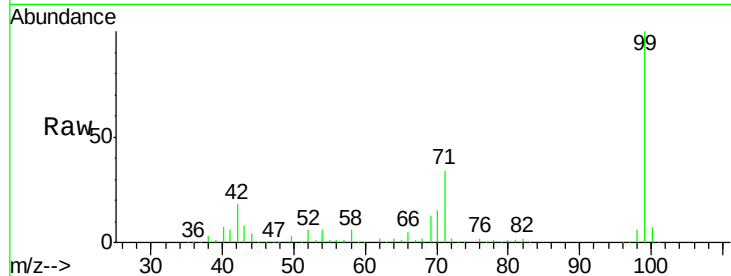
Tot Ion: 99 Resp: 241639

Ion Ratio Lower Upper

99 100

42 17.6 13.5 20.3

71 34.3 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 2.27 ng

RT: 7.34 min Scan# 893

Delta R.T. 0.14 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Tgt Ion: 70 Resp: 18368

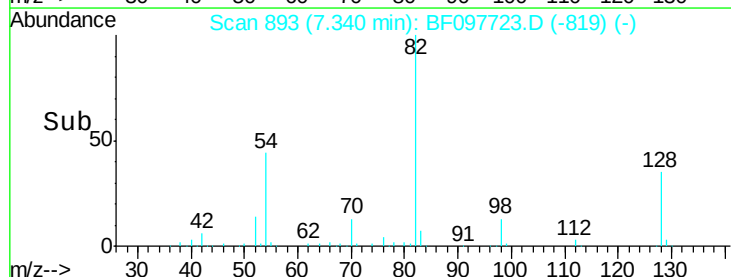
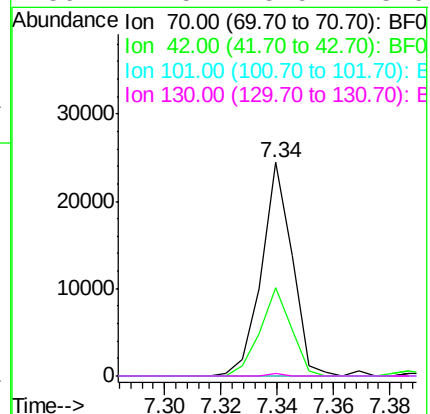
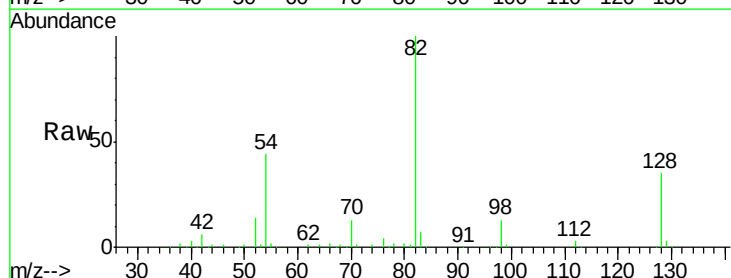
Ion Ratio Lower Upper

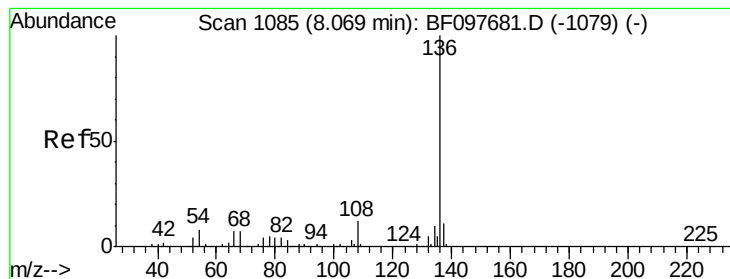
70 100

42 41.6 47.2 70.8#

101 0.0 7.2 10.8#

130 1.5 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.07 min Scan# 1017

Delta R.T. 0.00 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Instrument :

BNA_F

ClientSampleId :

SB-28-COMP

Tot Ion:136 Resp: 509915

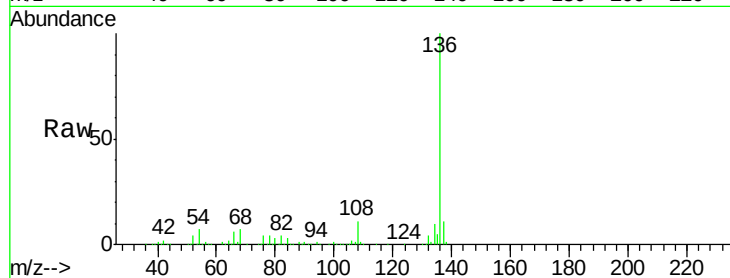
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 7.4 4.9 7.3#

68 6.5 4.1 6.1#

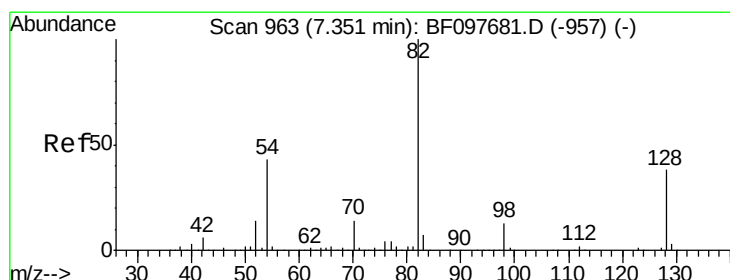
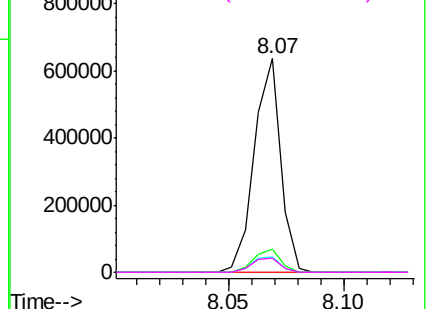
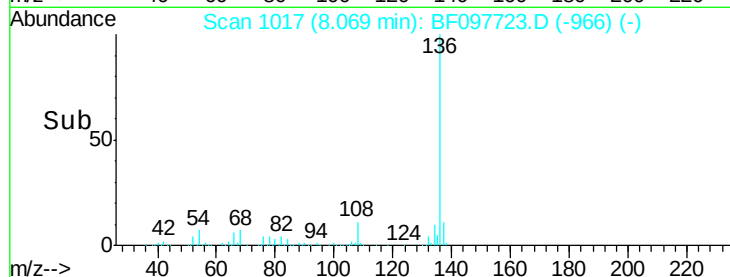


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 14.43 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.01 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

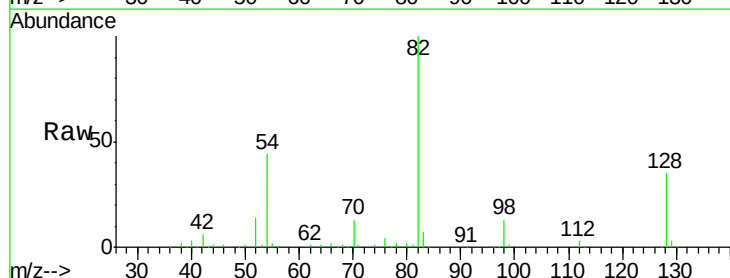
Tgt Ion: 82 Resp: 135456

Ion Ratio Lower Upper

82 100

128 35.4 34.0 51.0

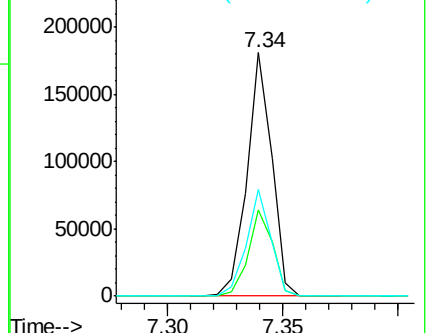
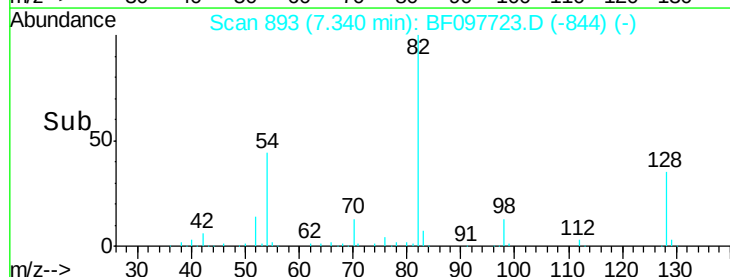
54 43.9 42.2 63.2

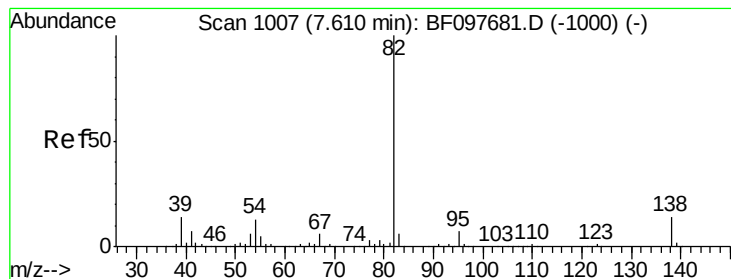


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 6.92 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.27 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Instrument :

BNA_F

ClientSampleId :

SB-28-COMP

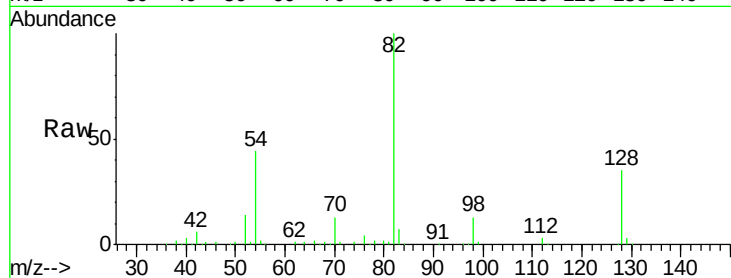
Tot Ion: 82 Resp: 135067

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

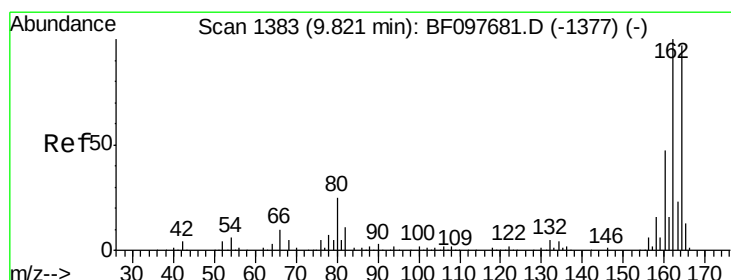
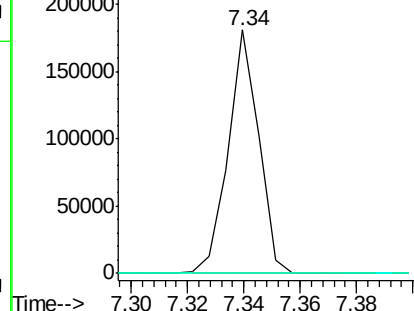
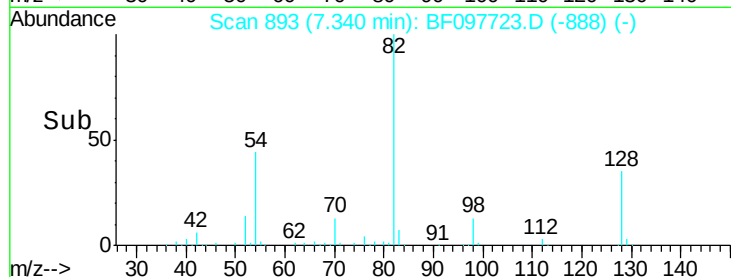
138 0.0 13.1 19.7#



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: 9.82 min Scan# 1315

Delta R.T. 0.00 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

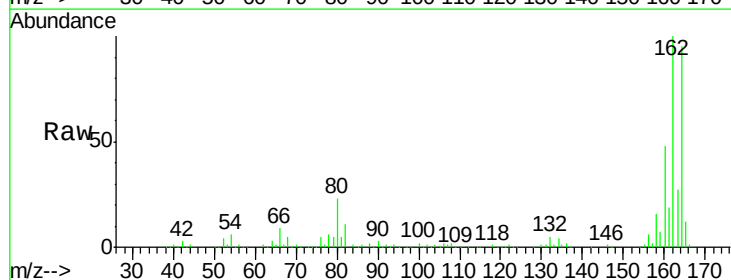
Tgt Ion: 164 Resp: 200278

Ion Ratio Lower Upper

164 100

162 105.0 82.6 123.8

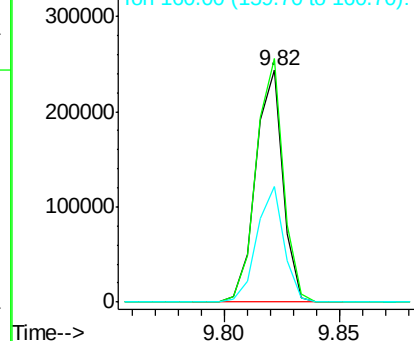
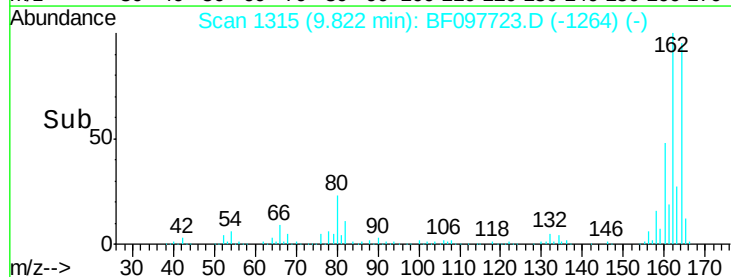
160 50.0 36.2 54.2

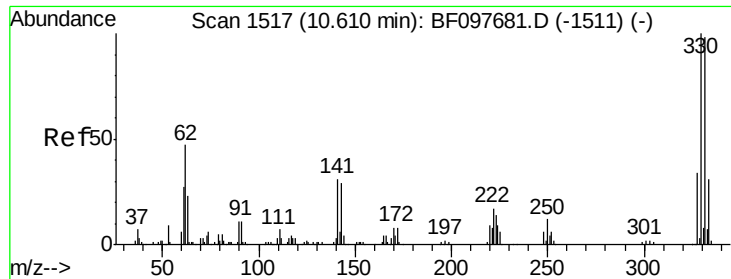


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 14.62 ng

RT: 10.60 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Instrument :

BNA_F

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SB-28-COMP

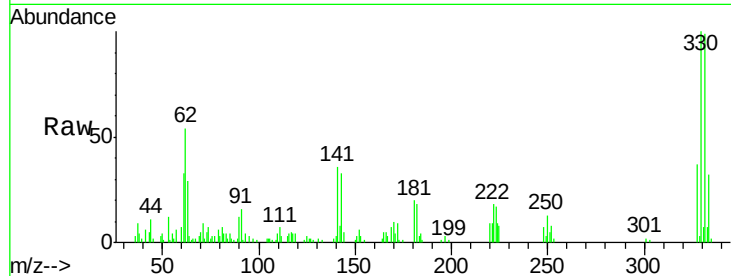
Tot Ion:330 Resp: 25404

Ion Ratio Lower Upper

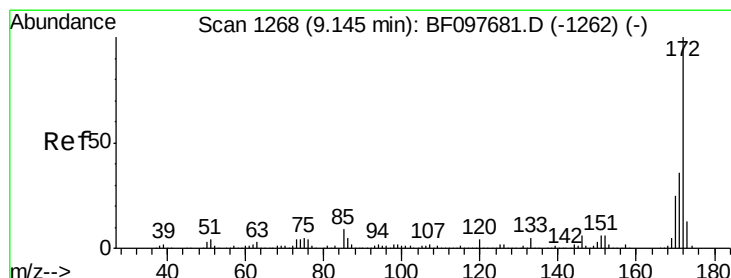
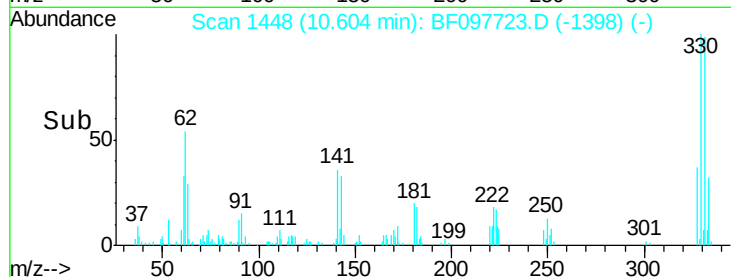
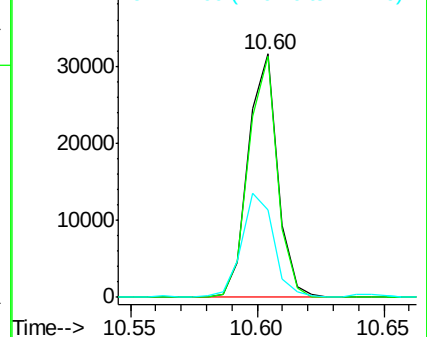
330 100

332 97.0 76.6 115.0

141 46.9 31.4 47.2



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



#44

2-Fluorobiphenyl

Concen: 15.91 ng

RT: 9.15 min Scan# 1200

Delta R.T. 0.00 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

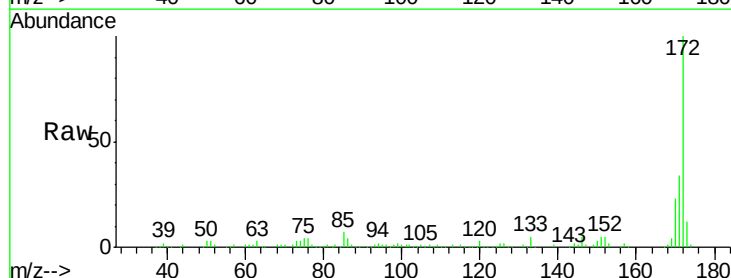
Tgt Ion:172 Resp: 216832

Ion Ratio Lower Upper

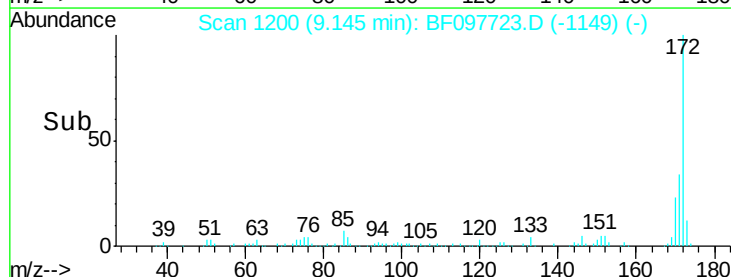
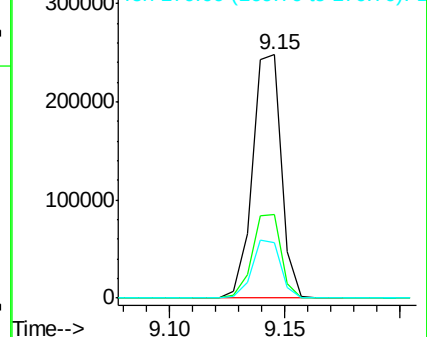
172 100

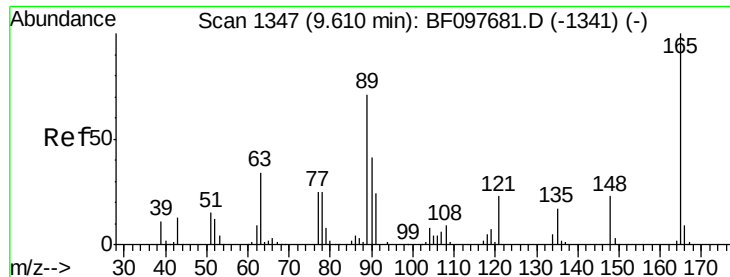
171 34.5 29.6 44.4

170 22.9 19.8 29.8



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

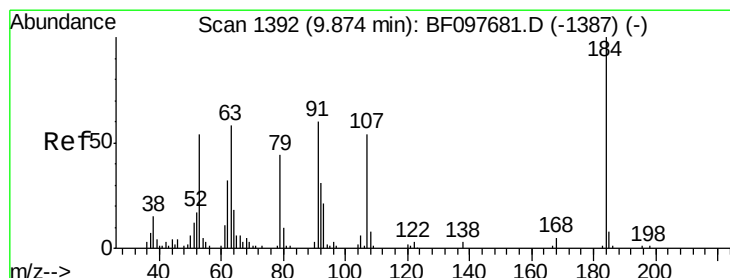
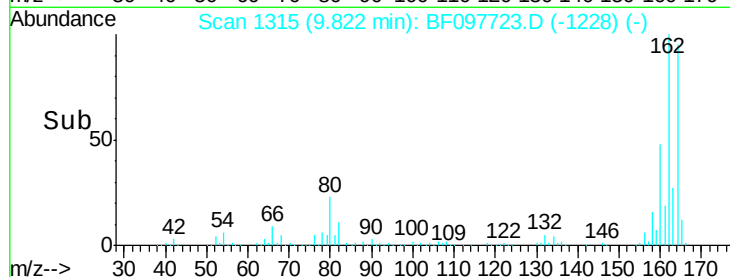
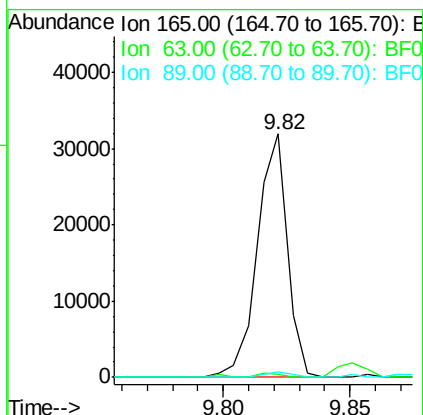
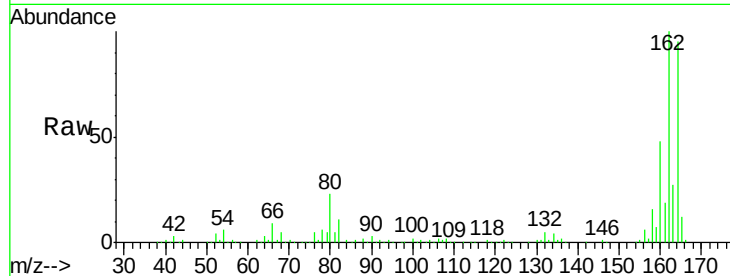




#50
 2,6-Dinitrotoluene
 Concen: 9.07 ng
 RT: 9.82 min Scan# 1315
 Delta R.T. 0.21 min
 Lab File: BF097723.D
 Acq: 16 Aug 2017 6:51

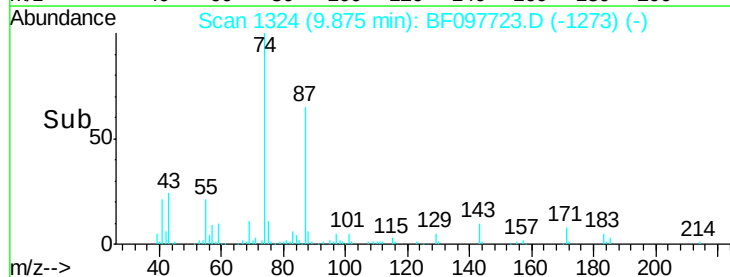
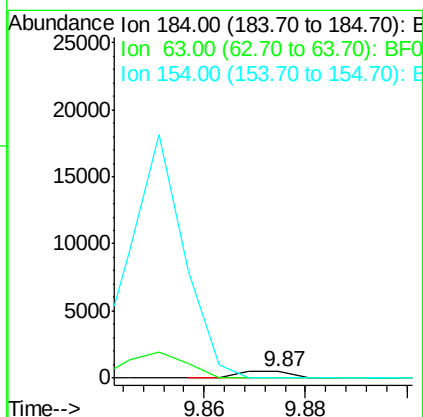
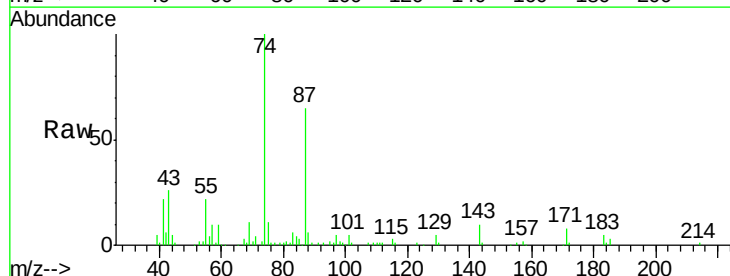
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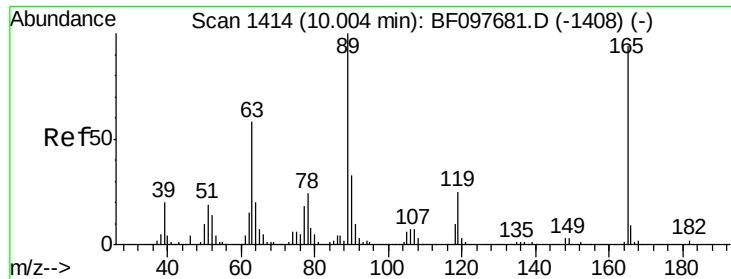
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	34.3	51.5#
89	2.4	37.1	55.7#



#53
 2,4-Dinitrophenol
 Concen: 10.36 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: BF097723.D
 Acq: 16 Aug 2017 6:51

Tgt Ion	Ratio	Lower	Upper
184	100		
63	0.0	62.7	94.1#
154	0.0	81.1	121.7#

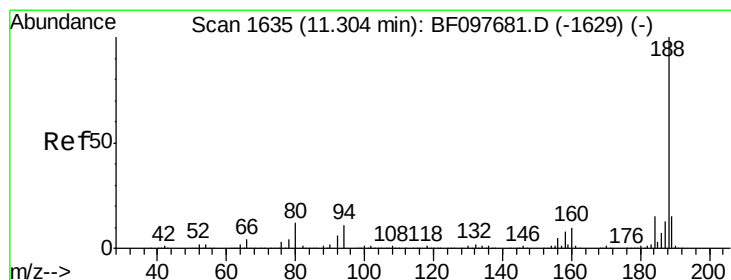
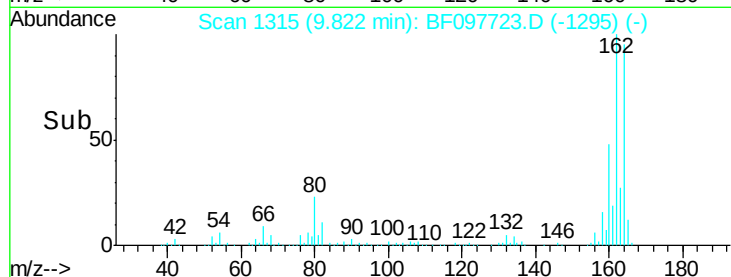
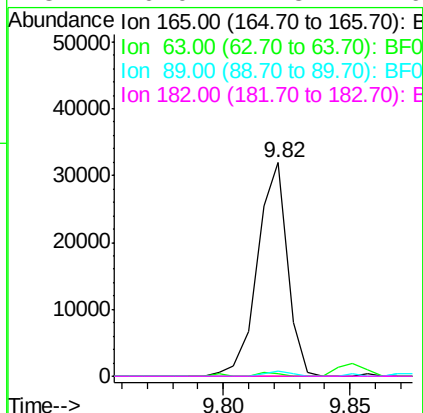
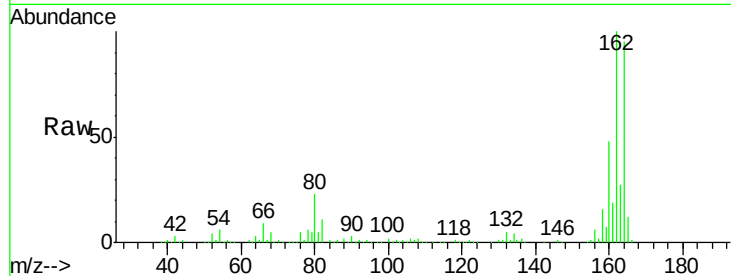




#56
 2,4-Dinitrotoluene
 Concen: 7.22 ng
 RT: 9.82 min Scan# 1315
 Delta R.T. -0.18 min
 Lab File: BF097723.D
 Acq: 16 Aug 2017 6:51

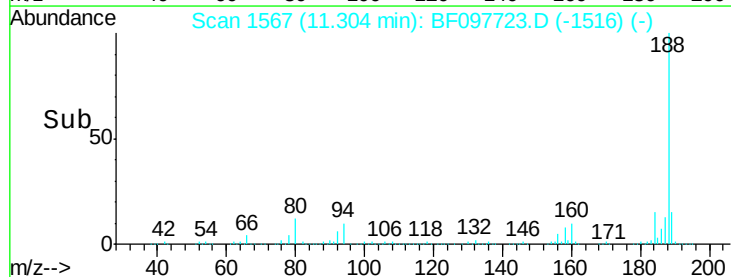
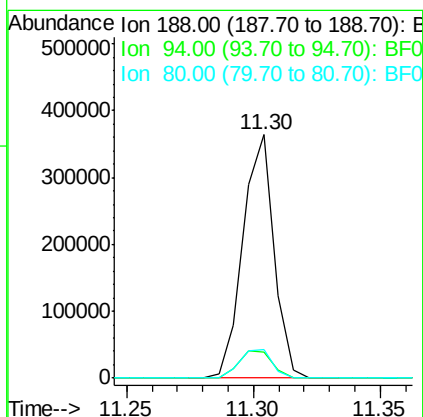
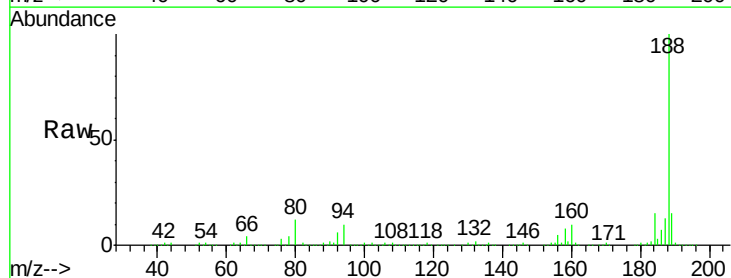
Instrument :
 BNA_F
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 SB-28-COMP

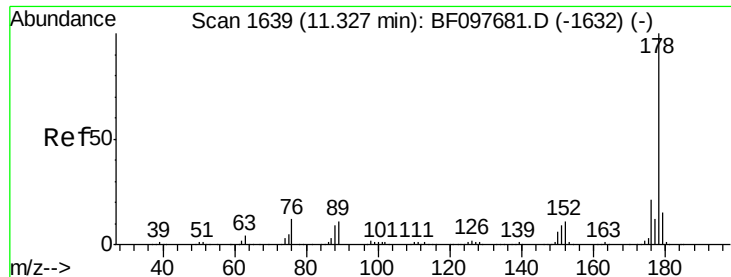
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	25.4	38.0#
89	2.4	46.4	69.6#
182	0.0	1.8	2.6#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.30 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: BF097723.D
 Acq: 16 Aug 2017 6:51

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	9.4	14.2
80	11.5	10.2	15.2

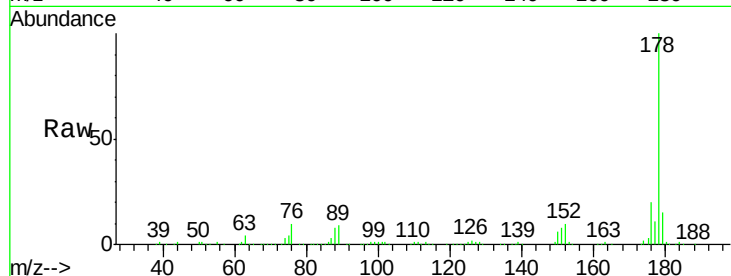




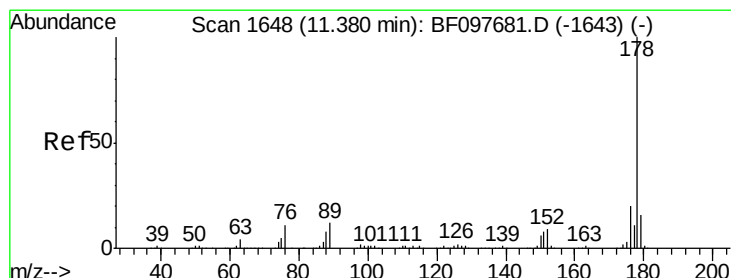
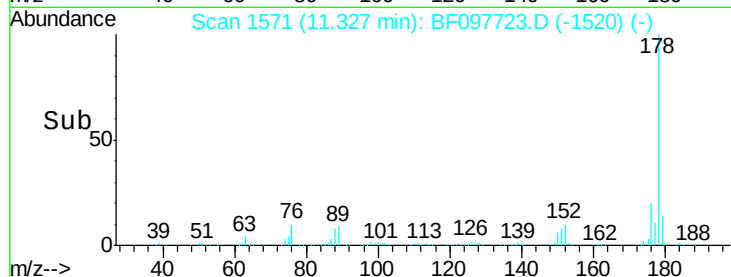
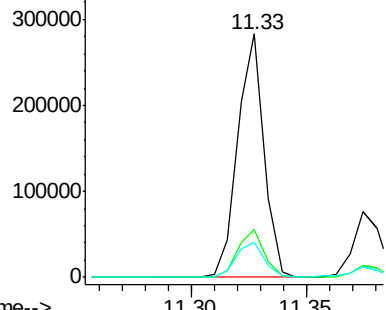
#70
Phenanthrene
Concen: 13.66 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.00 min
Lab File: BF097723.D
Acq: 16 Aug 2017 6:51

Instrument :
BNA_F
ClientSampleId :
SB-28-COMP

Tot Ion:178 Resp: 224294
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 14.5 12.6 19.0

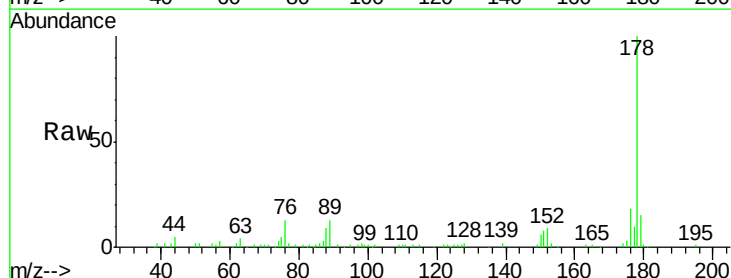


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

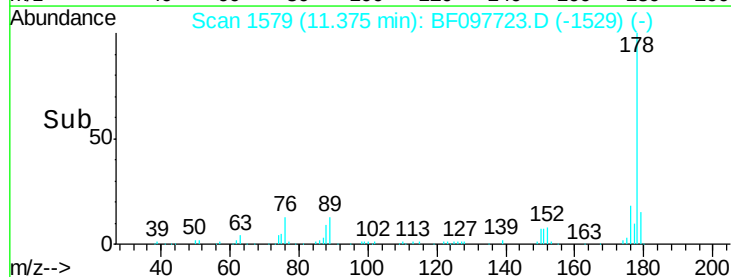
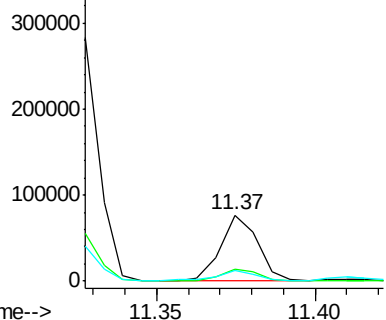


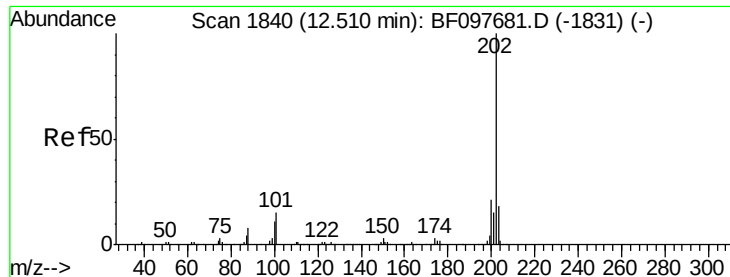
#71
Anthracene
Concen: 3.71 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF097723.D
Acq: 16 Aug 2017 6:51

Tgt Ion:178 Resp: 61818
Ion Ratio Lower Upper
178 100
176 18.2 15.8 23.8
179 15.4 12.7 19.1



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





#74

Fluoranthene

Concen: 22.74 ng

RT: 12.52 min Scan# 1773

Delta R.T. 0.01 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Instrument :

BNA_F

ClientSampleId :

SB-28-COMP

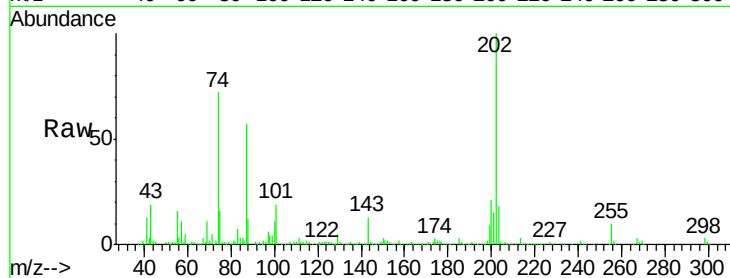
Tot Ion:202 Resp: 389734

Ion Ratio Lower Upper

202 100

101 19.4 0.0 33.2

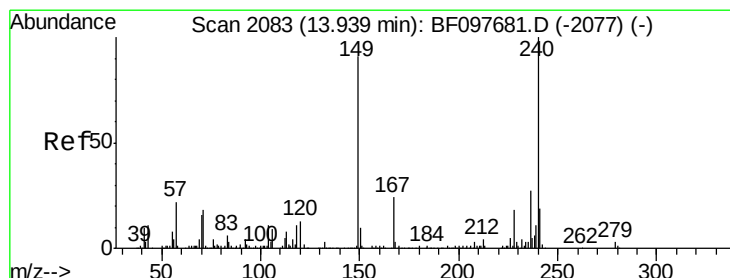
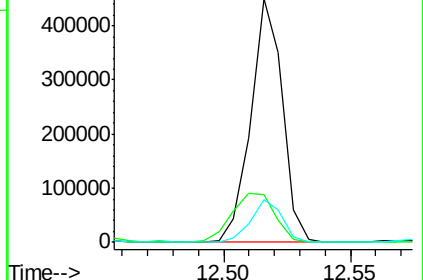
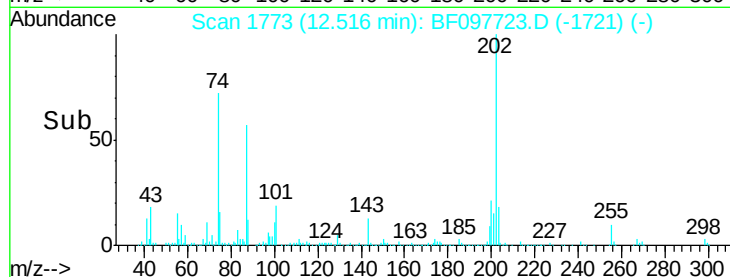
203 17.7 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.94 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

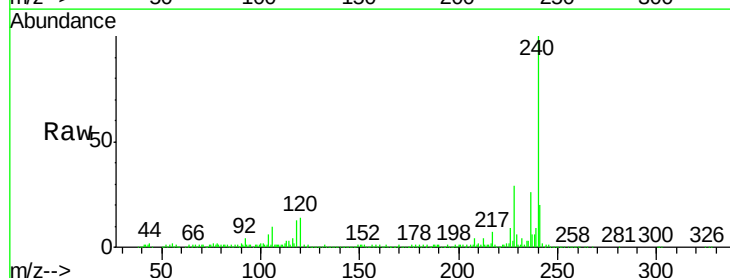
Tgt Ion:240 Resp: 292488

Ion Ratio Lower Upper

240 100

120 14.4 5.8 8.8#

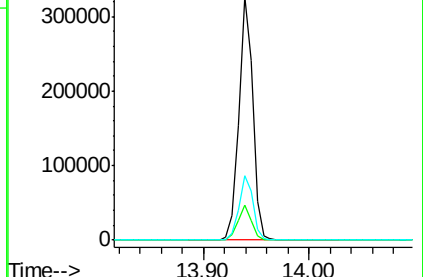
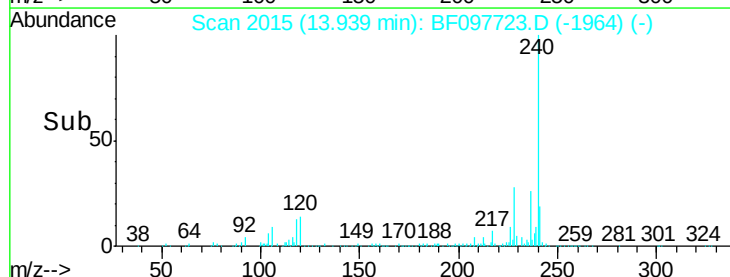
236 26.3 20.5 30.7

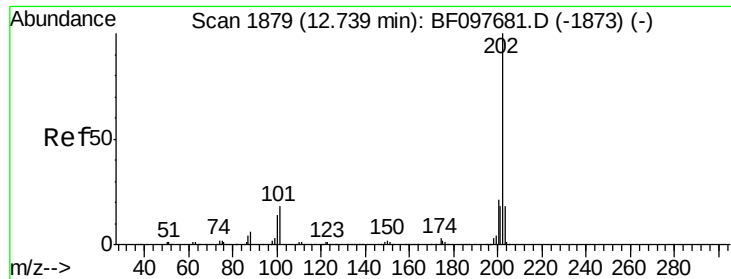


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

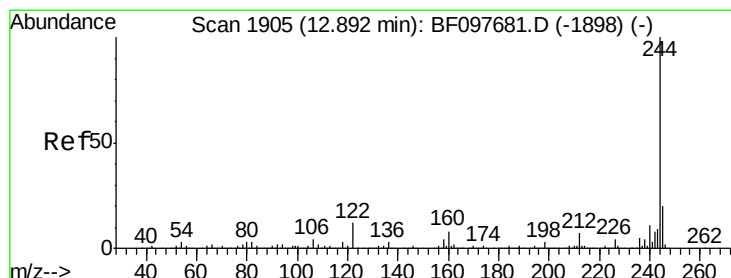
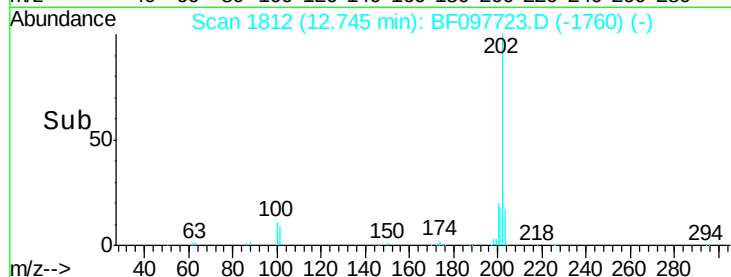
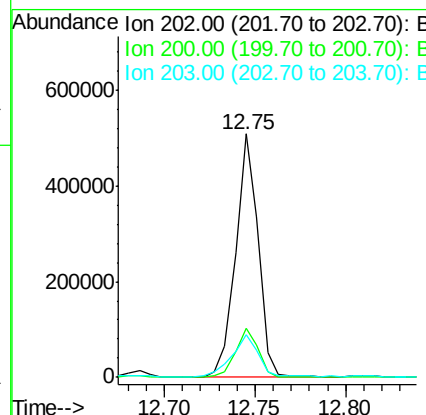
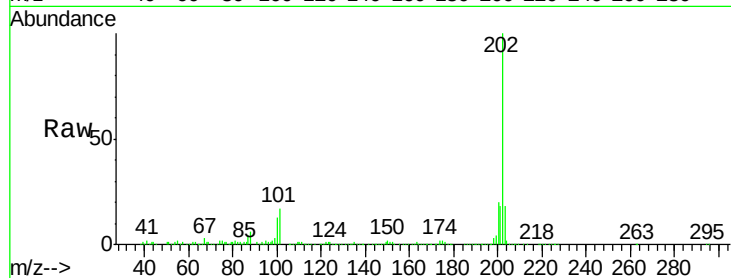




#77
Pvrene
Concen: 18.28 ng
RT: 12.75 min Scan# 1812
Delta R.T. 0.01 min
Lab File: BF097723.D
Acq: 16 Aug 2017 6:51

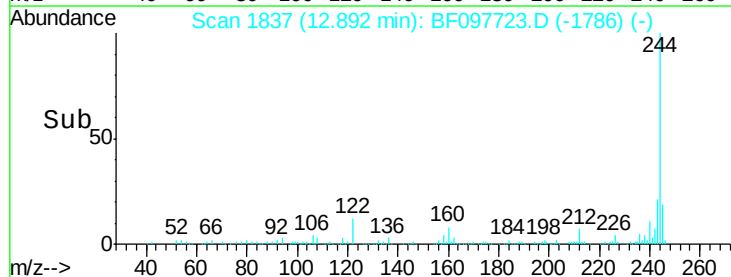
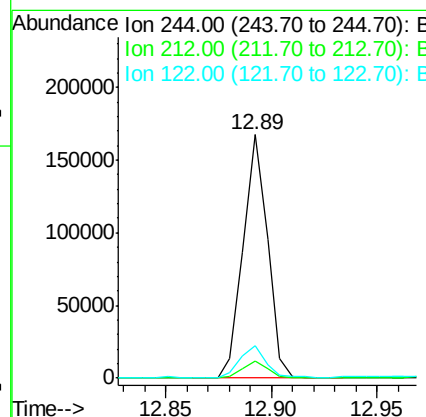
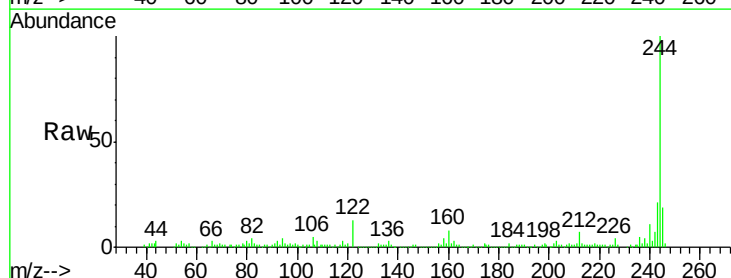
Instrument :
BNA_F
ClientSampleId :
SB-28-COMP

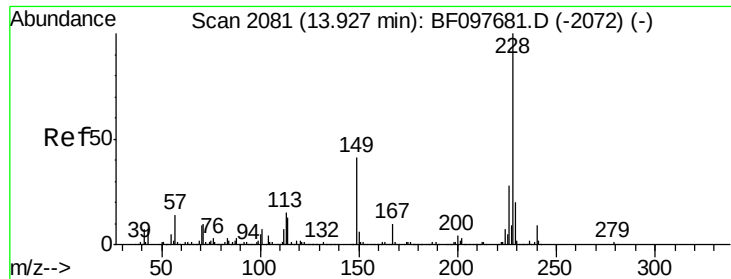
Tot Ion:202 Resp: 437405
Ion Ratio Lower Upper
202 100
200 20.0 17.6 26.4
203 17.7 14.4 21.6



#78
Terphenyl-d14
Concen: 9.51 ng
RT: 12.89 min Scan# 1837
Delta R.T. 0.00 min
Lab File: BF097723.D
Acq: 16 Aug 2017 6:51

Tgt Ion:244 Resp: 133447
Ion Ratio Lower Upper
244 100
212 7.1 6.0 9.0
122 13.1 10.3 15.5





#80

Benzo(a)anthracene

Concen: 14.68 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.04 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Instrument :

BNA_F

ClientSampleId :

SB-28-COMP

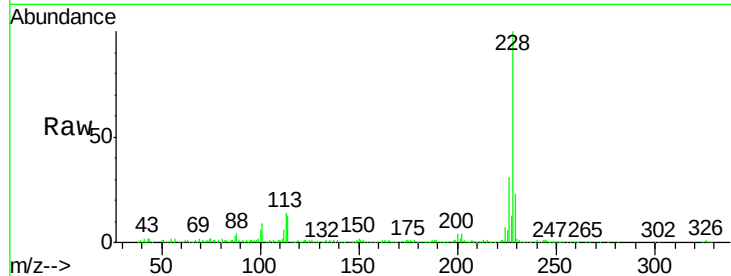
Tot Ion:228 Resp: 257286

Ion Ratio Lower Upper

228 100

226 30.8 22.6 33.8

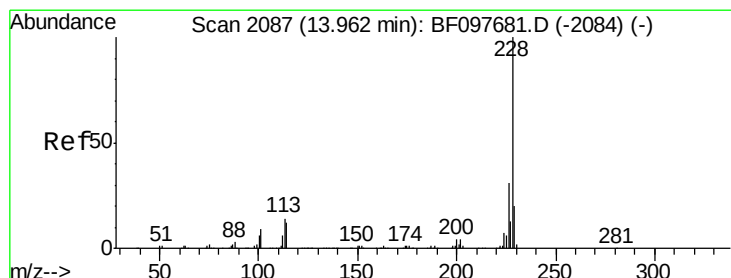
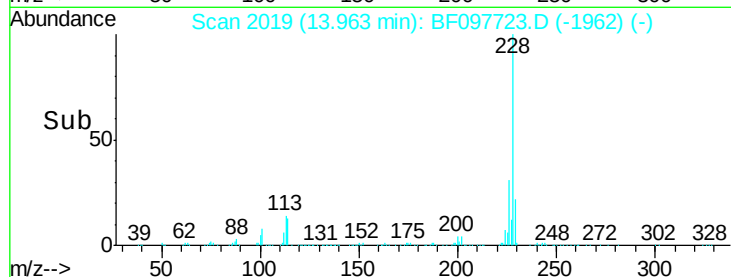
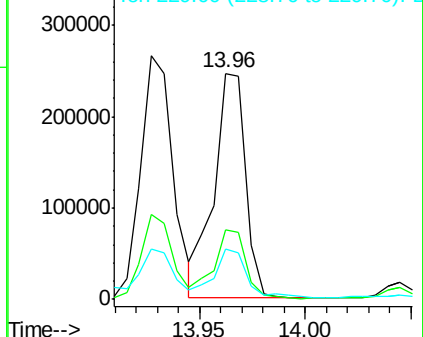
229 22.5 16.3 24.5



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: 14.75 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

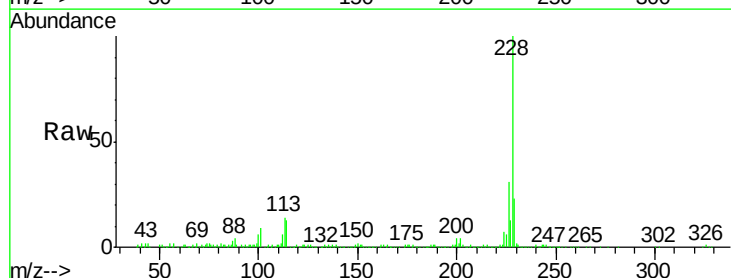
Tgt Ion:228 Resp: 257286

Ion Ratio Lower Upper

228 100

226 30.8 24.9 37.3

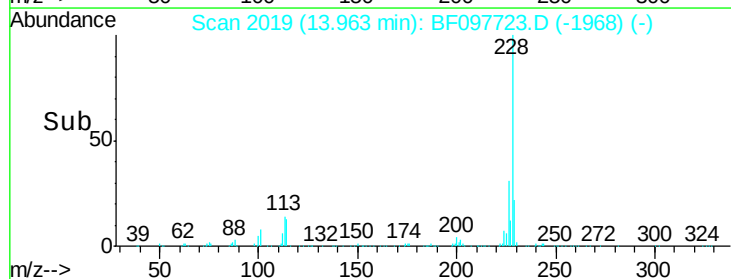
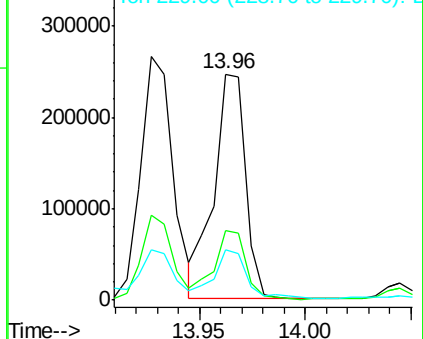
229 22.5 15.8 23.6

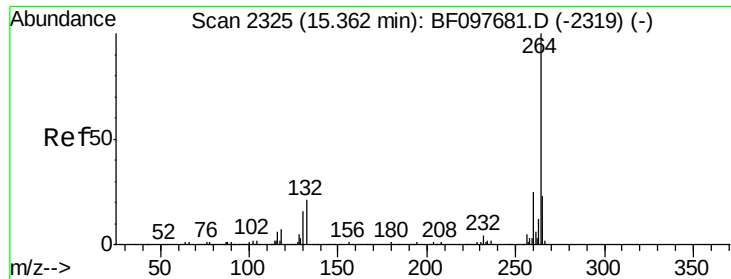


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

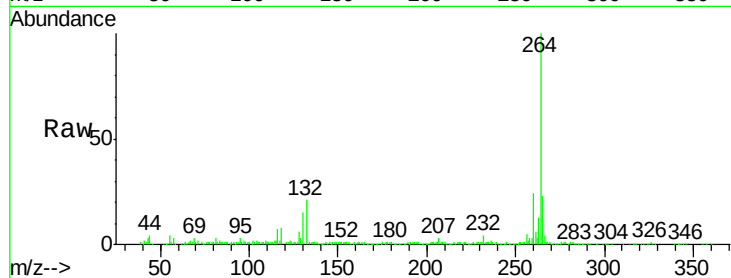




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 2259
Delta R.T. 0.01 min
Lab File: BF097723.D
Acq: 16 Aug 2017 6:51

Instrument :
BNA_F
ClientSampleId :
SB-28-COMP

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	23.2	17.2	25.8

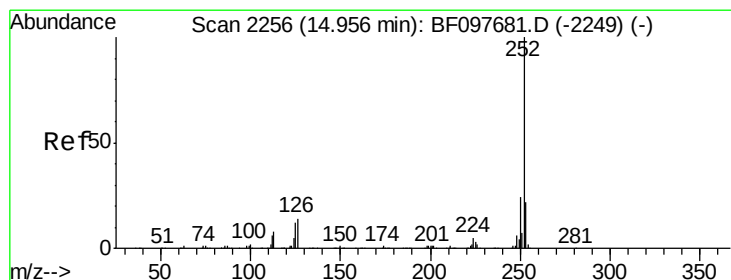
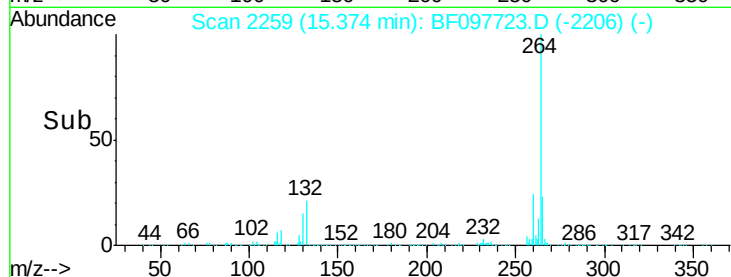
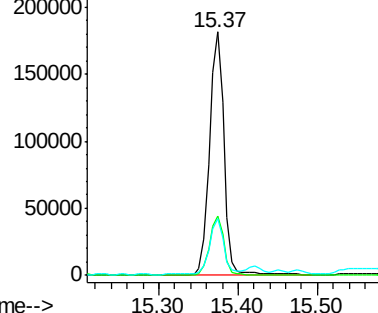


Abundance

Ion 264.00 (263.70 to 264.70): E

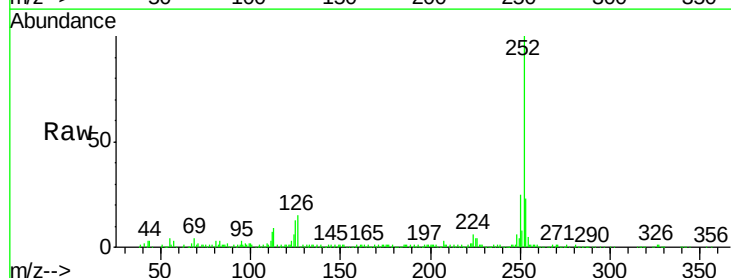
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 23.71 ng
RT: 14.96 min Scan# 2189
Delta R.T. 0.01 min
Lab File: BF097723.D
Acq: 16 Aug 2017 6:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	13.0	9.8	14.8

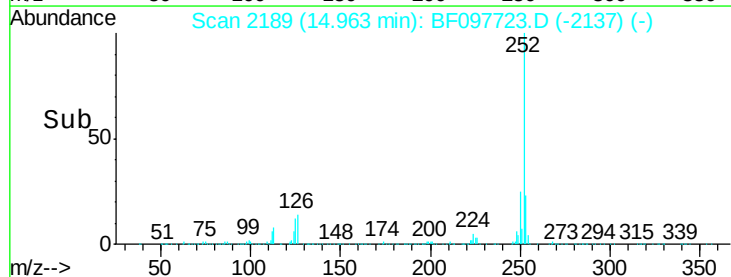
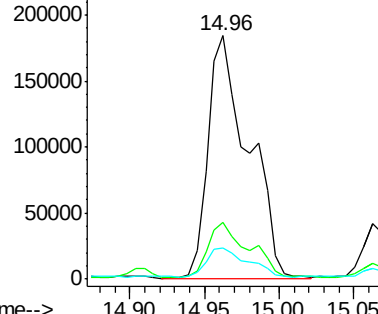


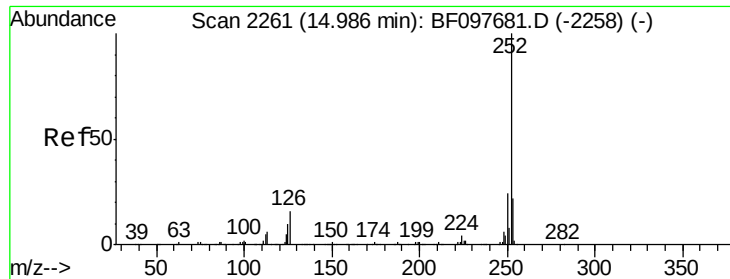
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 8.66 ng

RT: 15.25 min Scan# 2238

Delta R.T. 0.26 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

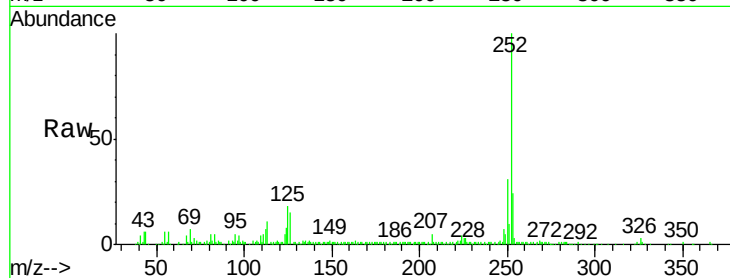
Instrument :

BNA_F

ClientSampleId :

SB-28-COMP

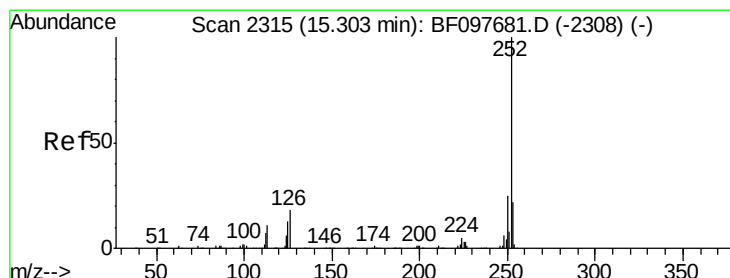
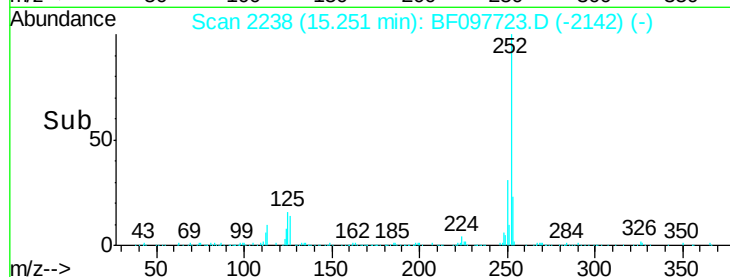
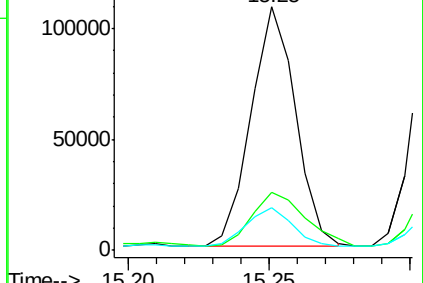
Tot Ion:252	Resp:	118595
Ion Ratio	Lower	Upper
252	100	
253	23.6	18.4 27.6
125	17.8	13.1 19.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 12.98 ng

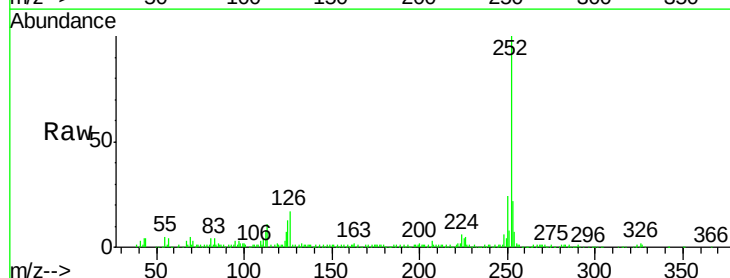
RT: 15.31 min Scan# 2248

Delta R.T. 0.01 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

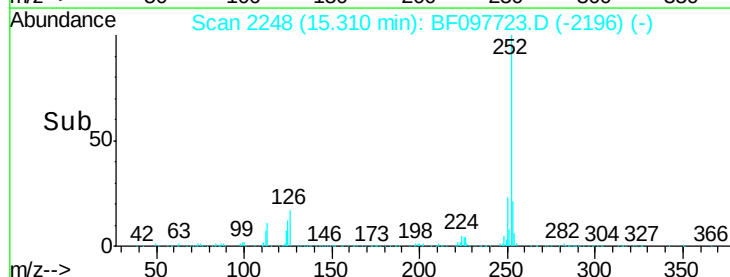
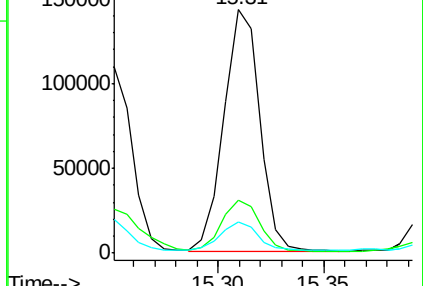
Tgt Ion:252	Resp:	167624
Ion Ratio	Lower	Upper
252	100	
253	21.8	17.5 26.3
125	12.9	11.0 16.4

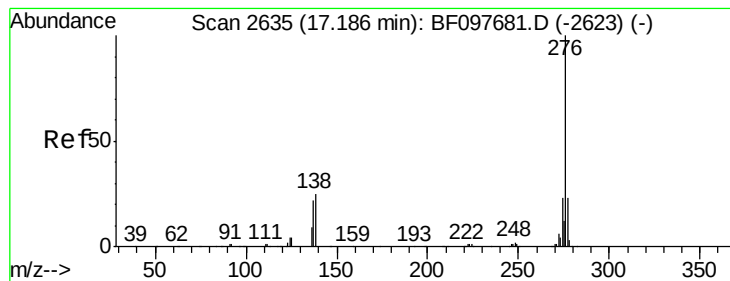


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 7.10 ng

RT: 17.19 min Scan# 2568

Delta R.T. 0.01 min

Lab File: BF097723.D

Acq: 16 Aug 2017 6:51

Instrument :

BNA_F

ClientSampleId :

SB-28-COMP

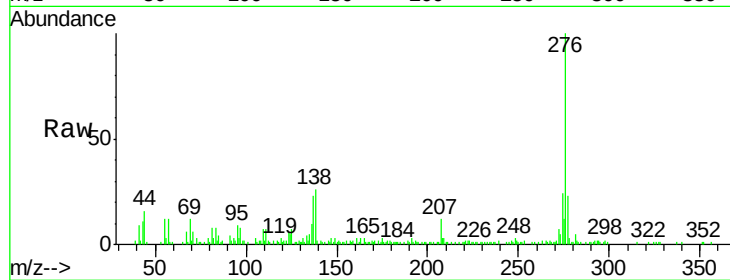
Tot Ion: 276 Resp: 77888

Ion Ratio Lower Upper

276 100

277 23.4 18.6 28.0

138 26.3 25.4 38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

