

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
 Data File : BF097205.D
 Acq On : 31 Jul 2017 14:01
 Operator : SJ/JU
 Sample : I4466-01 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

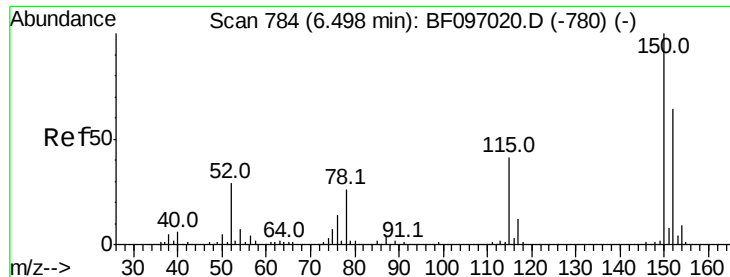
Instrument :
 BNA_F
 ClientSampleId :
 HD-02-072617

Quant Time: Jul 31 15:09:27 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.47	152	120214	20.00	ng	-0.02
21) Naphthalene-d8	7.76	136	441488	20.00	ng	-0.02
38) Acenaphthene-d10	9.50	164	177029	20.00	ng	-0.03
63) Phenanthrene-d10	10.98	188	209316	20.00	ng	-0.02
75) Chrysene-d12	13.61	240	201533	20.00	ng	-0.02
86) Perylene-d12	14.96	264	206186	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	217519	27.28	ng	-0.03
7) Phenol-d6	6.13	99	239674	26.33	ng	-0.04
23) Nitrobenzene-d5	7.05	82	124027	16.48	ng	-0.03
41) 2,4,6-Tribromophenol	10.29	330	28923	20.68	ng	-0.03
44) 2-Fluorobiphenyl	8.84	172	237398	22.76	ng	-0.03
78) Terphenyl-d14	12.57	244	123339	12.48	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.05	70	16141	2.694	ng	Qvalue # 84
25) Isophorone	7.05	82	124026	8.415	ng	# 67
49) Dimethylphthalate	9.24	163	33398	2.484	ng	99
51) Acenaphthene	9.54	154	22088	2.196	ng	98
57) Fluorene	10.05	166	29893	2.968	ng	# 93
59) Diethylphthalate	9.94	149	32821	2.661	ng	100
70) Phenanthrene	11.00	178	255589	22.789	ng	97
71) Anthracene	11.06	178	96508	8.402	ng	99
74) Fluoranthene	12.19	202	509923	46.411	ng	97
77) Pyrene	12.42	202	479945	29.090	ng	99
80) Benzo(a)anthracene	13.60	228	261515	20.055	ng	99
82) Chrysene	13.64	228	229906	18.056	ng	98
85) Indeno(1,2,3-cd)pyrene	16.19	276	142790	13.078	ng	94
87) Benzo(b)fluoranthene	14.61	252	420154	33.899	ng	# 97
88) Benzo(k)fluoranthene	14.61	252	420154	35.574	ng	99
89) Benzo(a)pyrene	14.92	252	235954	20.801	ng	96
90) Dibenzo(a,h)anthracene	16.19	278	34634	3.723	ng	# 77
91) Benzo(g,h,i)perylene	16.56	276	134711	13.809	ng	96

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

```
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```

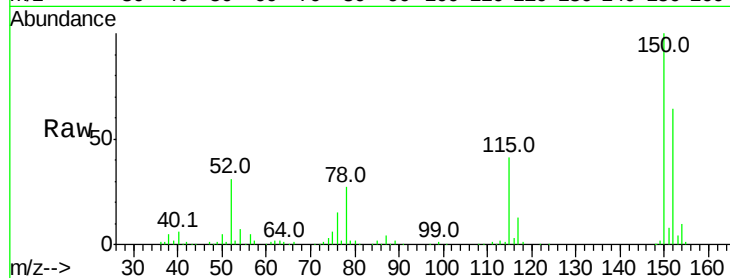


#1

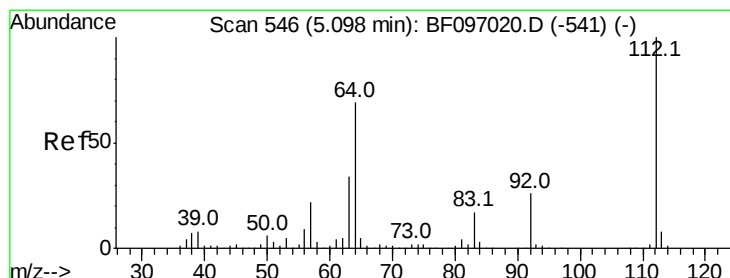
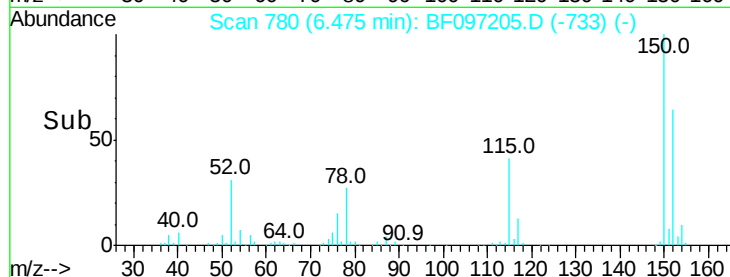
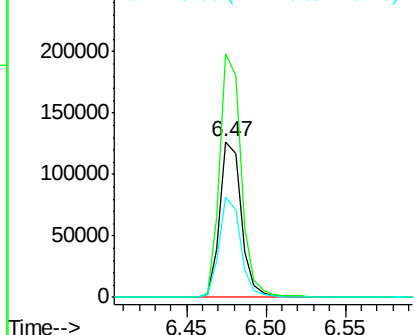
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.47 min Scan# 780
Delta R.T. -0.02 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Instrument :
BNA_F
ClientSampleId :
HD-02-072617

Tot Ion:152 Resp: 120214
Ion Ratio Lower Upper
152 100
150 156.2 126.2 189.2
115 64.7 52.2 78.2



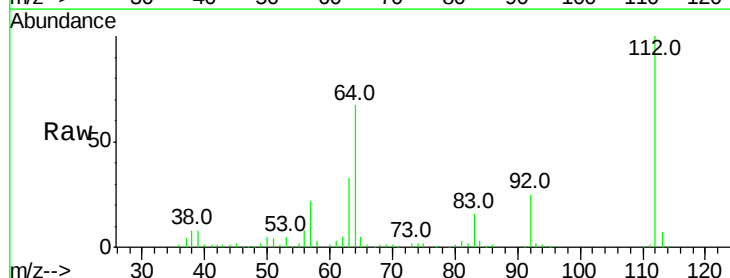
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



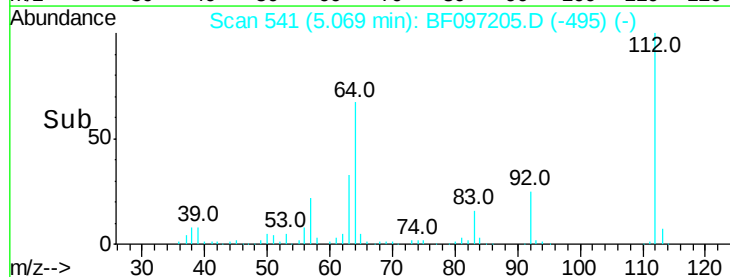
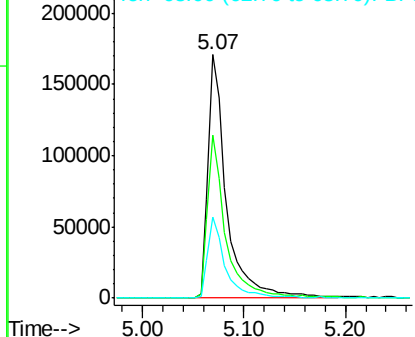
#5

2-Fluorophenol
Concen: 27.277 ng
RT: 5.07 min Scan# 541
Delta R.T. -0.03 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Tgt Ion:112 Resp: 217519
Ion Ratio Lower Upper
112 100
64 66.8 46.0 69.0
63 33.5 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: 26.327 ng

RT: 6.13 min Scan# 722

Delta R.T. -0.04 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

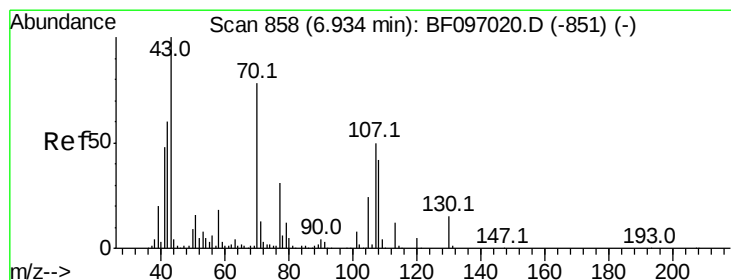
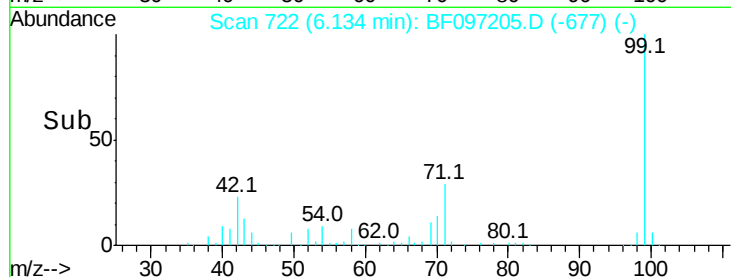
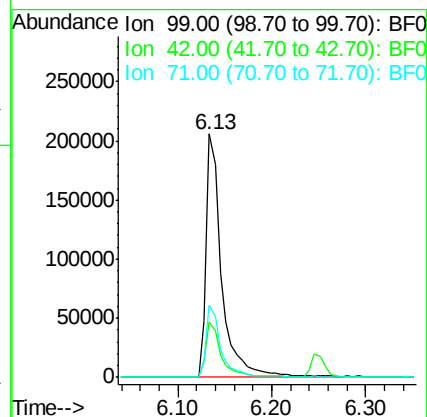
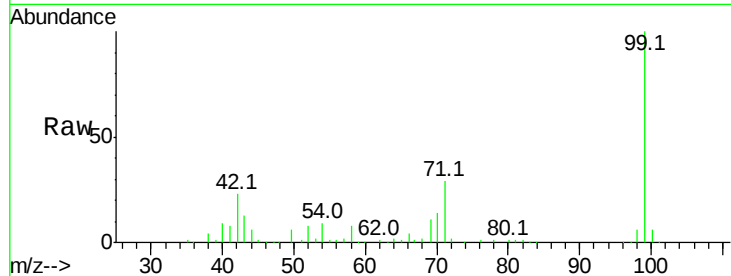
Tot Ion: 99 Resp: 239674

Ion Ratio Lower Upper

99 100

42 22.9 13.5 20.3#

71 29.4 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 2.694 ng

RT: 7.05 min Scan# 877

Delta R.T. 0.11 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Tgt Ion: 70 Resp: 16141

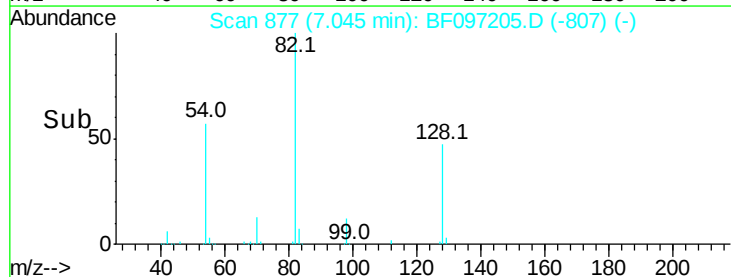
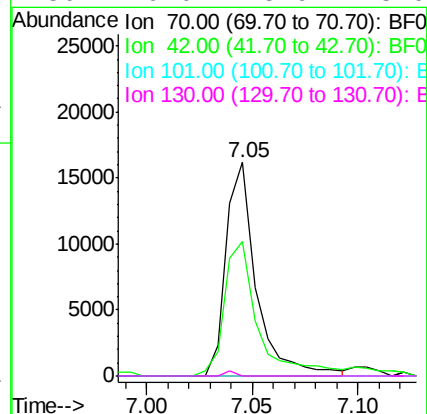
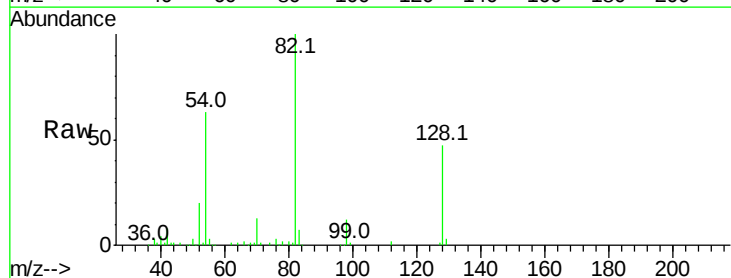
Ion Ratio Lower Upper

70 100

42 63.2 47.2 70.8

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

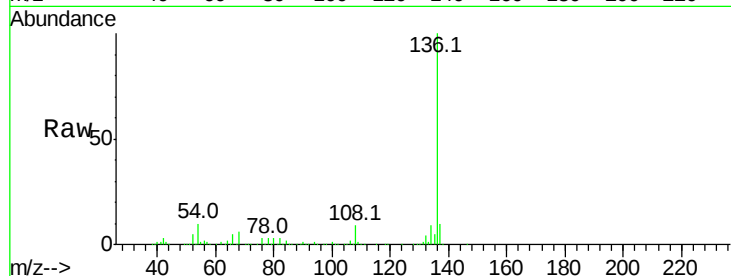




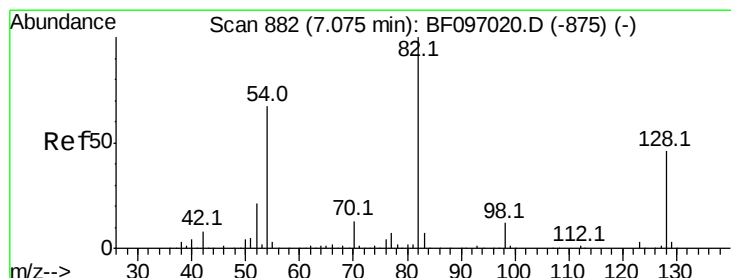
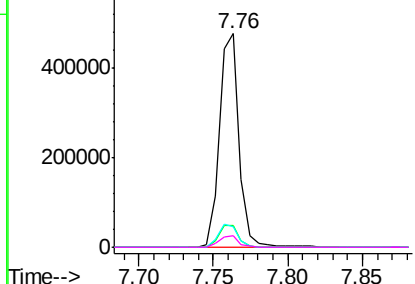
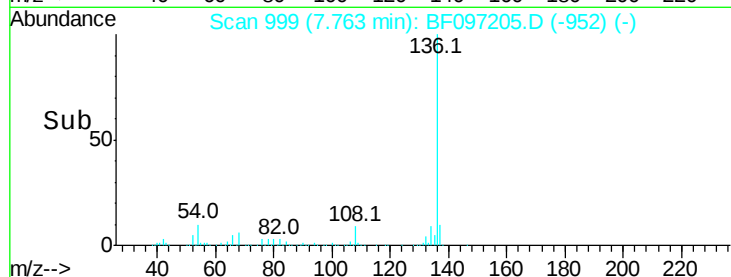
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.76 min Scan# 999
Delta R.T. -0.02 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Instrument :
BNA_F
ClientSampleId :
HD-02-072617

Tot Ion:	136	Resp:	441488
Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.5	12.7
54	9.6	4.9	7.3#
68	5.5	4.1	6.1

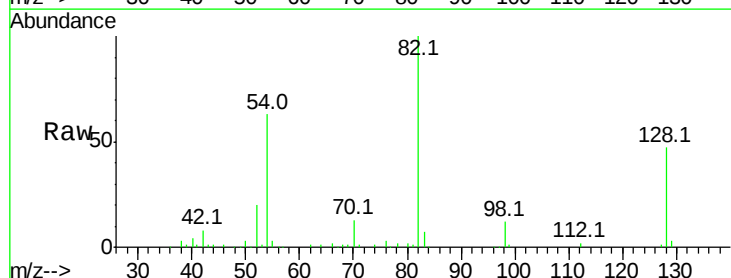


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

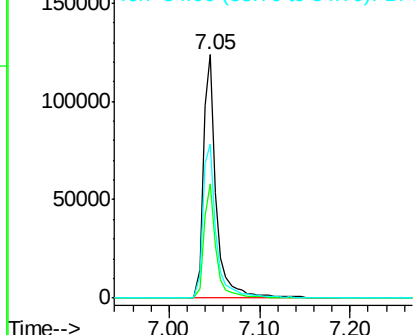
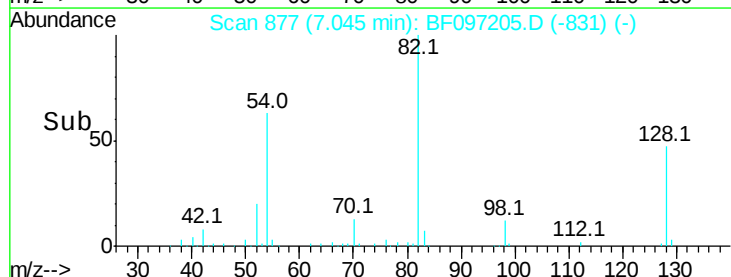


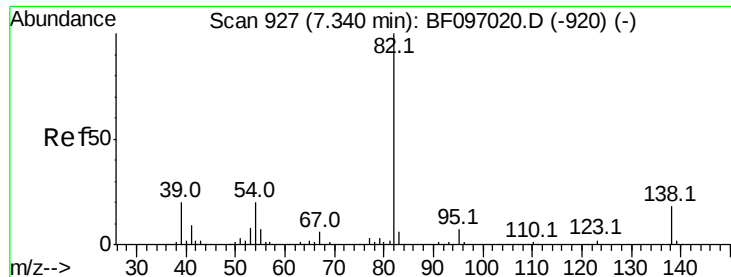
#23
Nitrobenzene-d5
Concen: 16.480 ng
RT: 7.05 min Scan# 877
Delta R.T. -0.03 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Tgt Ion:	82	Resp:	124027
Ion	Ratio	Lower	Upper
82	100		
128	47.1	34.0	51.0
54	63.4	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

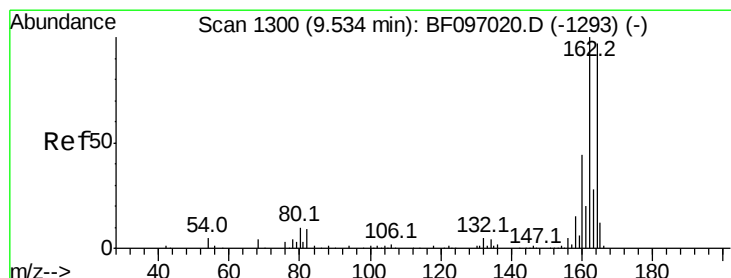
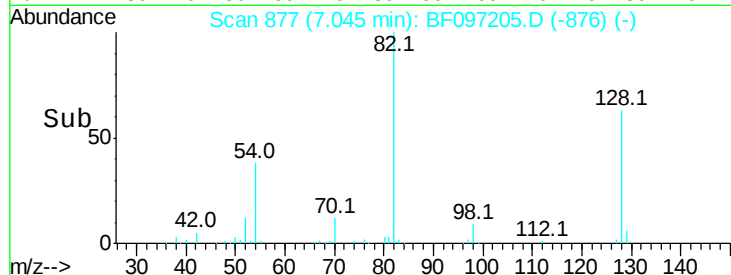
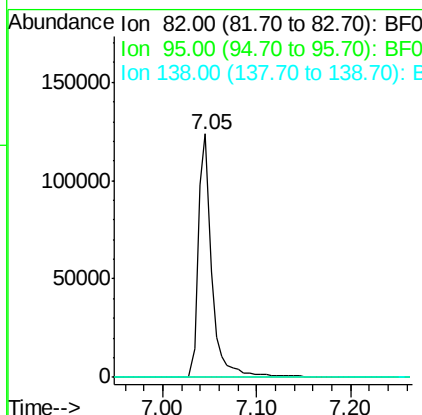
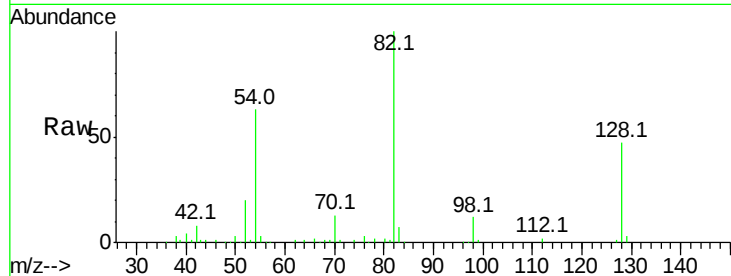




#25
Isophorone
Concen: 8.415 ng
RT: 7.05 min Scan# 877
Delta R.T. -0.29 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

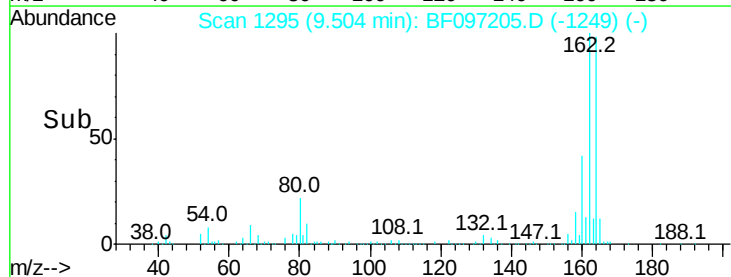
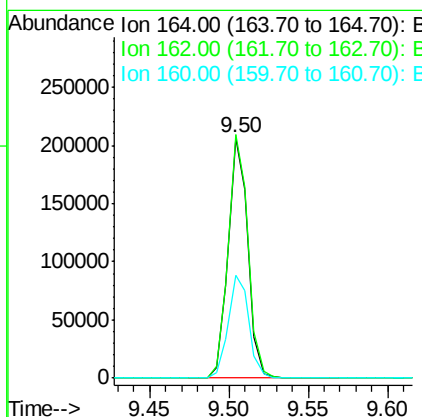
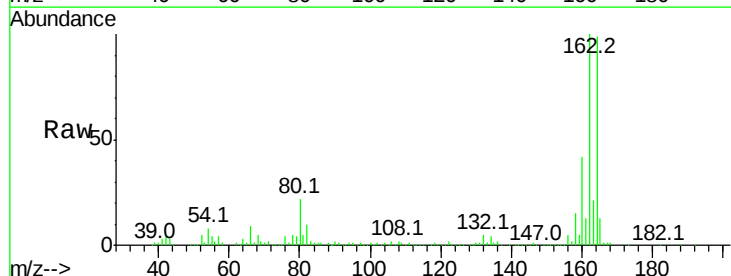
Instrument :
BNA_F
ClientSampleId :
HD-02-072617

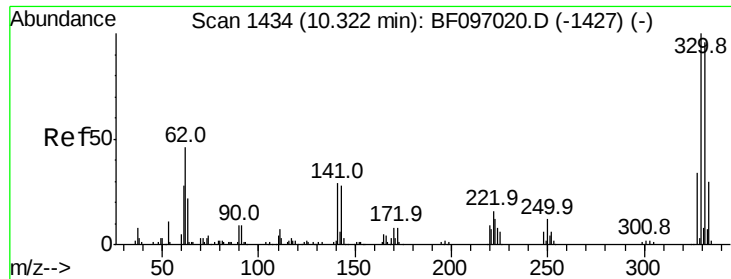
Tot Ion: 82 Resp: 124026
Ion Ratio Lower Upper
82 100
95 0.0 5.3 7.9#
138 0.0 13.1 19.7#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.50 min Scan# 1295
Delta R.T. -0.03 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Tgt Ion:164 Resp: 177029
Ion Ratio Lower Upper
164 100
162 101.3 82.6 123.8
160 42.6 36.2 54.2

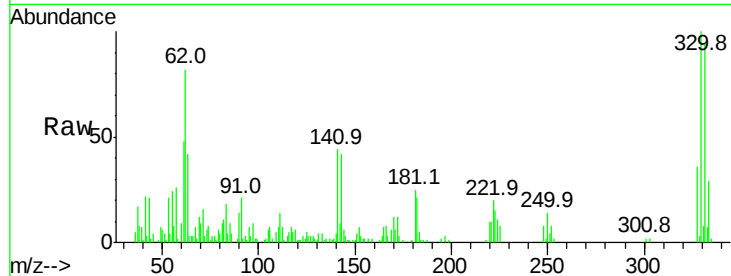




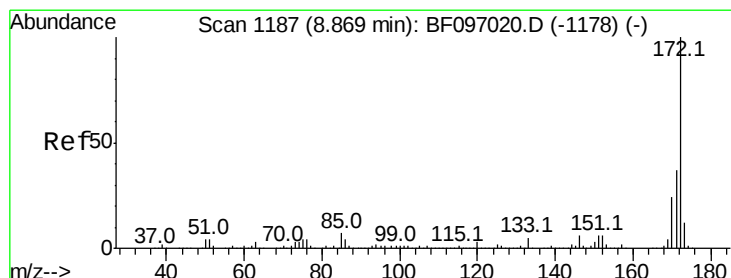
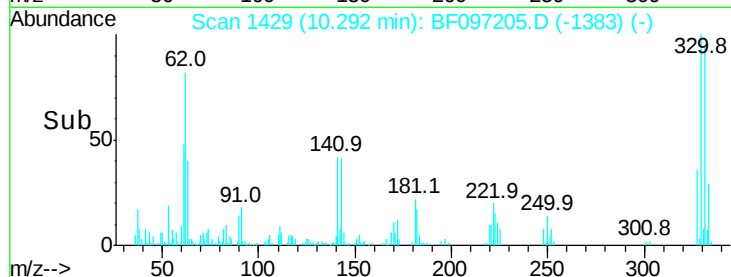
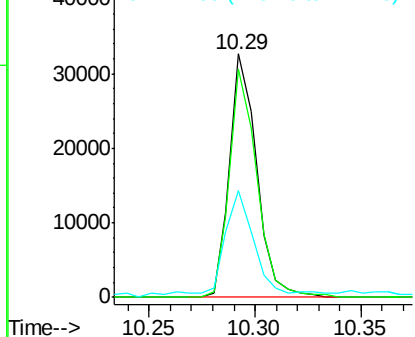
#41
 2,4,6-Tribromophenol
 Concen: 20.678 ng
 RT: 10.29 min Scan# 1429
 Delta R.T. -0.03 min
 Lab File: BF097205.D
 Acq: 31 Jul 2017 14:01

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-072617

Tot Ion:330 Resp: 28923
 Ion Ratio Lower Upper
 330 100
 332 95.5 76.6 115.0
 141 53.5 31.4 47.2#

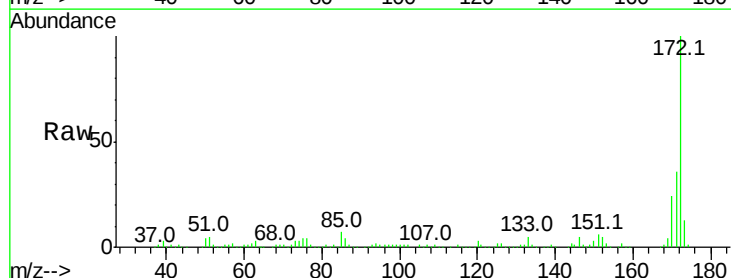


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

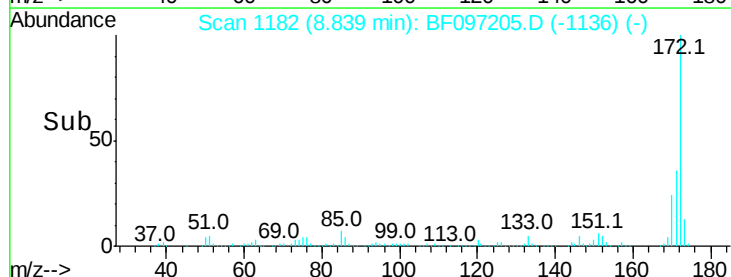
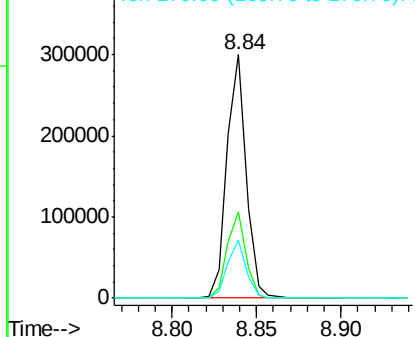


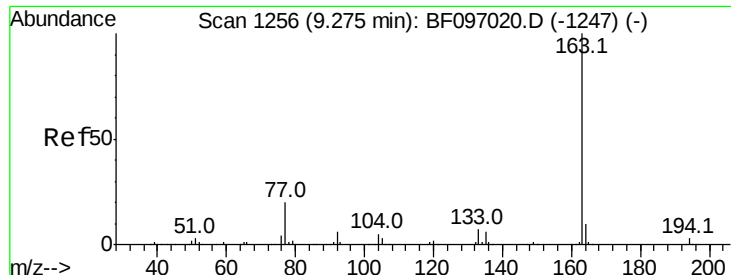
#44
 2-Fluorobiphenyl
 Concen: 22.758 ng
 RT: 8.84 min Scan# 1182
 Delta R.T. -0.03 min
 Lab File: BF097205.D
 Acq: 31 Jul 2017 14:01

Tgt Ion:172 Resp: 237398
 Ion Ratio Lower Upper
 172 100
 171 35.5 29.6 44.4
 170 23.8 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

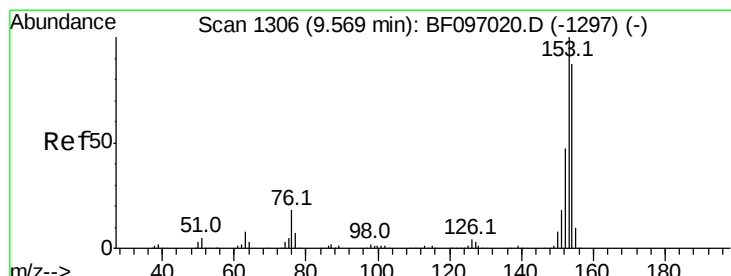
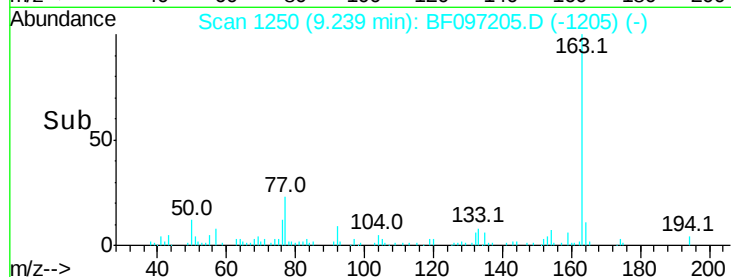
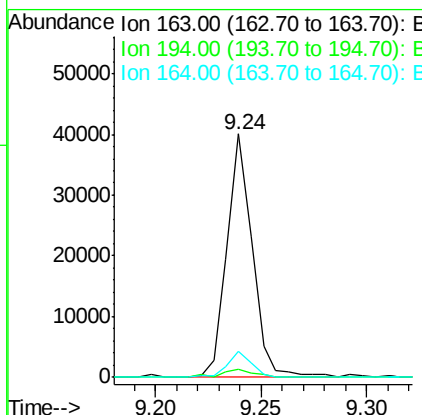
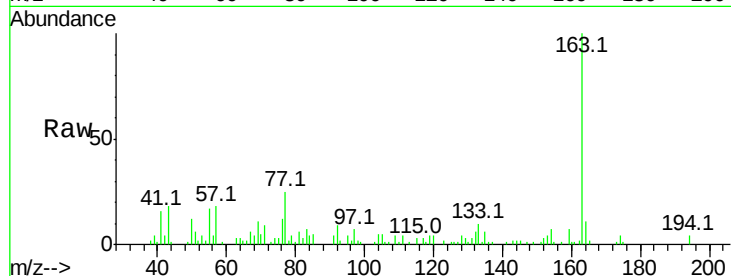




#49
Dimethylphthalate
Concen: 2.484 ng
RT: 9.24 min Scan# 1250
Delta R.T. -0.04 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

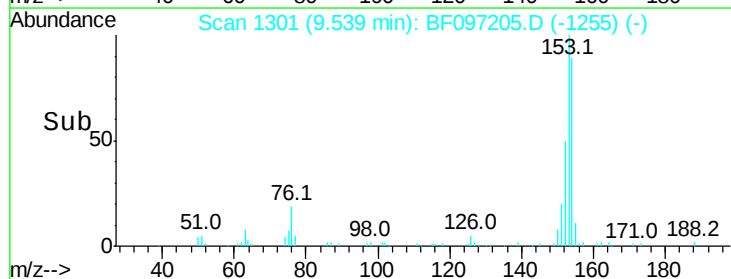
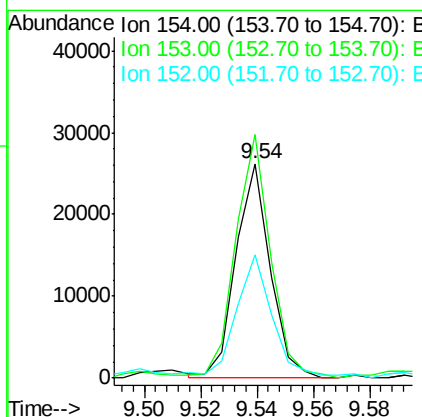
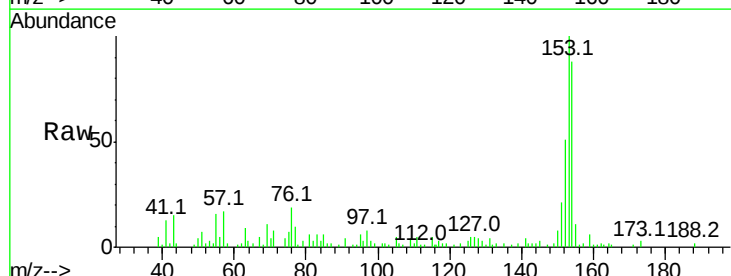
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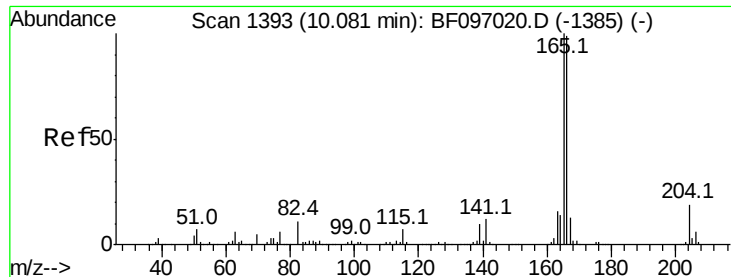
Tot Ion:163 Resp: 33398
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 10.9 8.4 12.6



#51
Acenaphthene
Concen: 2.196 ng
RT: 9.54 min Scan# 1301
Delta R.T. -0.03 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Tgt Ion:154 Resp: 22088
Ion Ratio Lower Upper
154 100
153 113.6 90.5 135.7
152 57.6 43.6 65.4





#57

Fluorene

Concen: 2.968 ng

RT: 10.05 min Scan# 1388

Delta R.T. -0.03 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

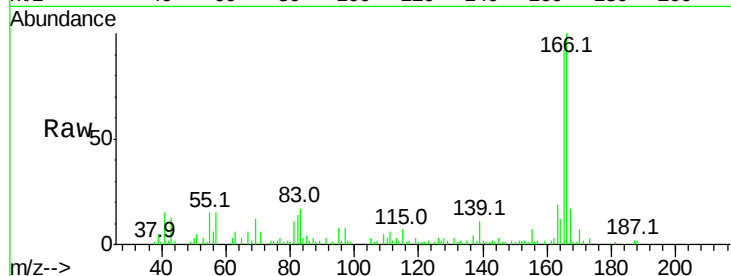
Tot Ion:166 Resp: 29893

Ion Ratio Lower Upper

166 100

165 92.1 78.8 118.2

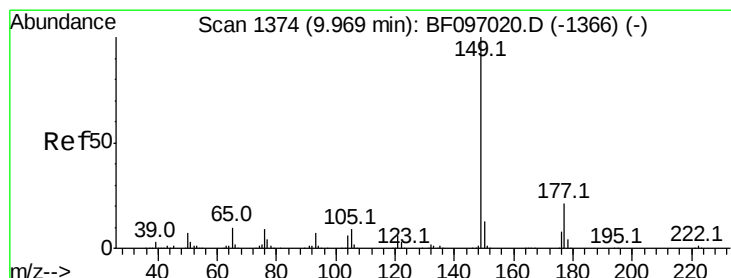
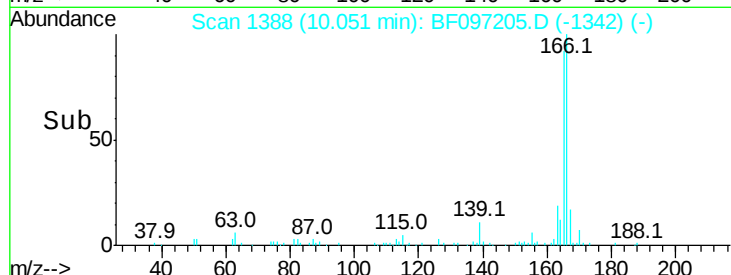
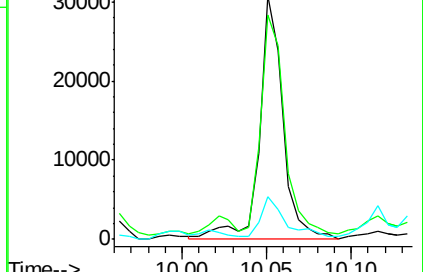
167 17.4 10.6 16.0#



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



#59

Diethylphthalate

Concen: 2.661 ng

RT: 9.94 min Scan# 1369

Delta R.T. -0.03 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

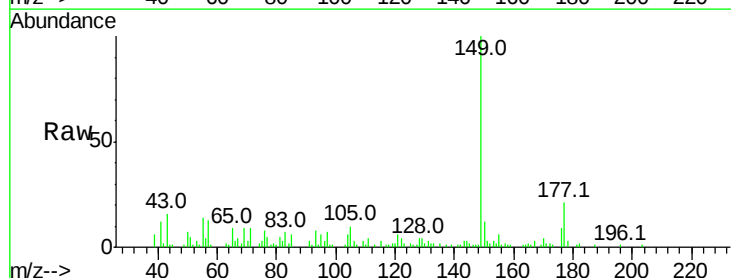
Tgt Ion:149 Resp: 32821

Ion Ratio Lower Upper

149 100

177 20.8 16.7 25.1

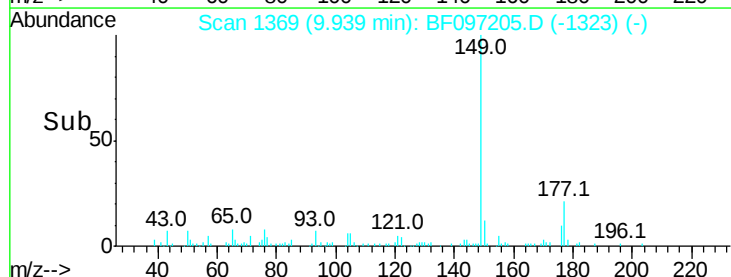
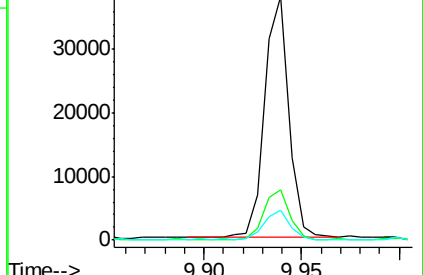
150 12.4 10.2 15.2

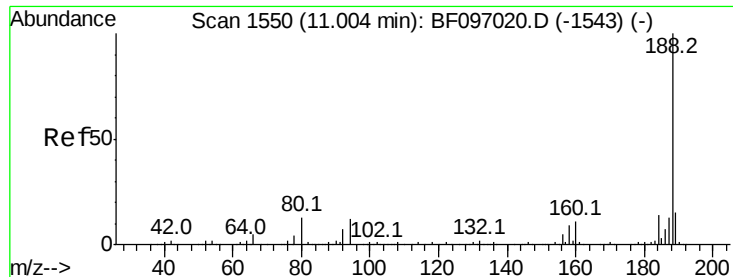


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

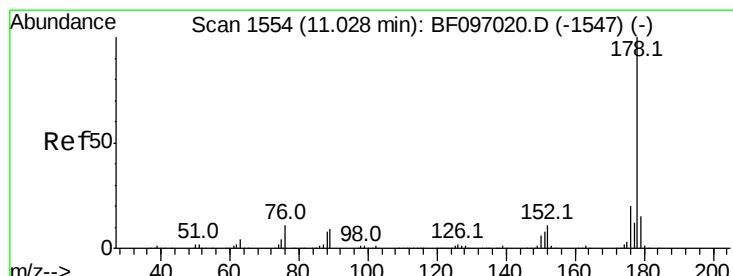
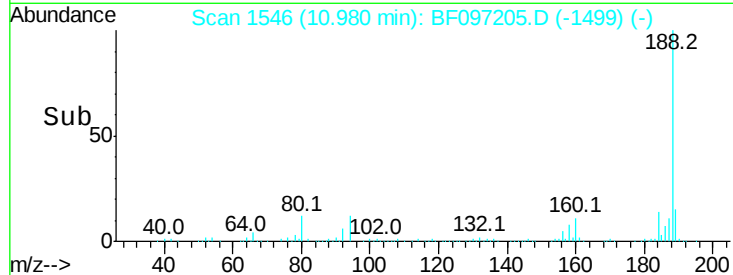
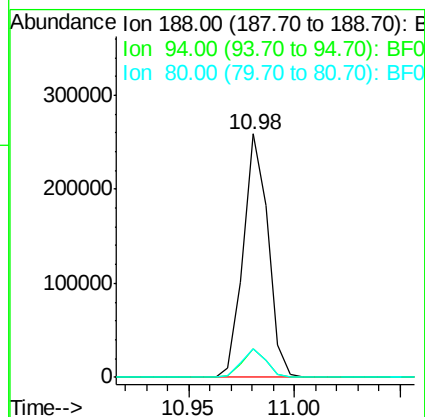
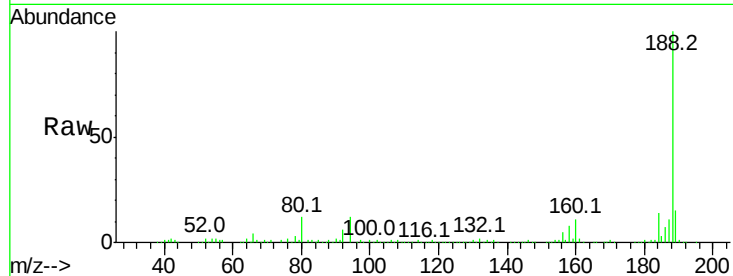




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.98 min Scan# 1546
Delta R.T. -0.02 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

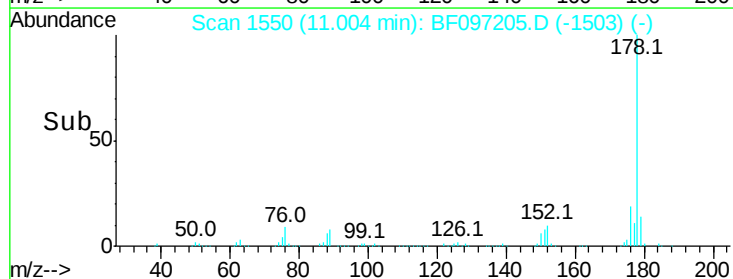
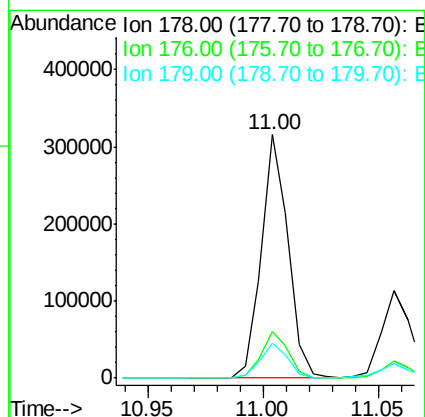
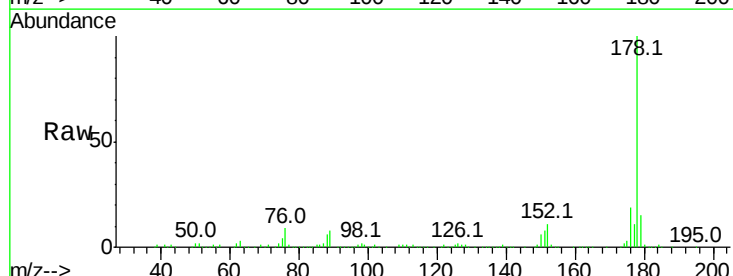
Instrument :
BNA_F
ClientSampleId :
HD-02-072617

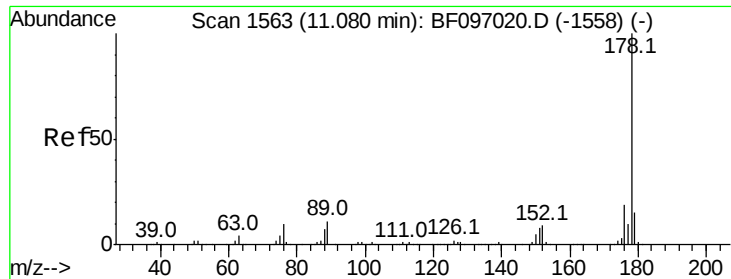
Tot Ion:188 Resp: 209316
Ion Ratio Lower Upper
188 100
94 11.7 9.4 14.2
80 11.9 10.2 15.2



#70
Phenanthrene
Concen: 22.789 ng
RT: 11.00 min Scan# 1550
Delta R.T. -0.02 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Tgt Ion:178 Resp: 255589
Ion Ratio Lower Upper
178 100
176 19.0 16.2 24.4
179 14.6 12.6 19.0





#71

Anthracene

Concen: 8.402 ng

RT: 11.06 min Scan# 1559

Delta R.T. -0.02 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

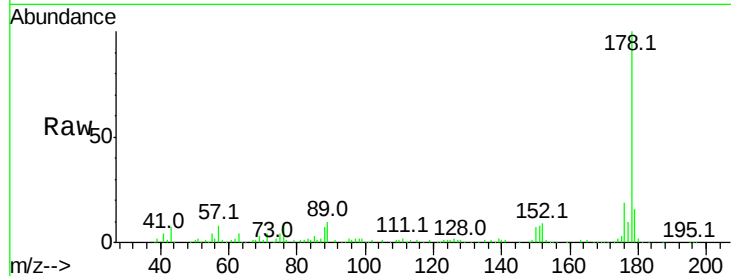
Tot Ion:178 Resp: 96508

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.8

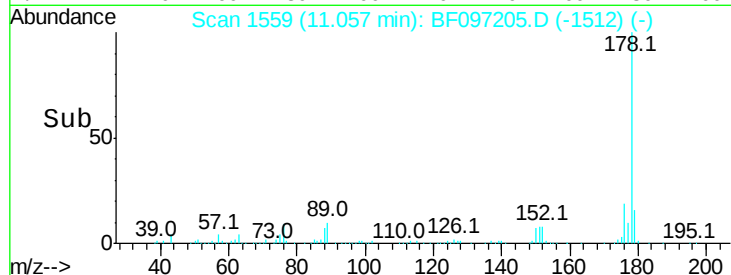
179 15.9 12.7 19.1



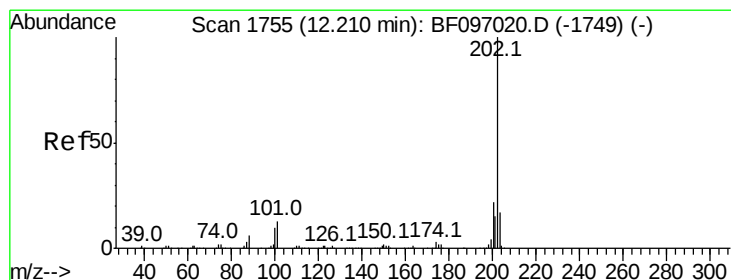
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#74

Fluoranthene

Concen: 46.411 ng

RT: 12.19 min Scan# 1752

Delta R.T. -0.02 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

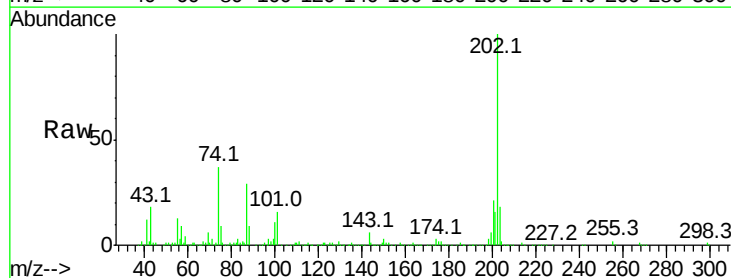
Tgt Ion:202 Resp: 509923

Ion Ratio Lower Upper

202 100

101 15.8 0.0 33.2

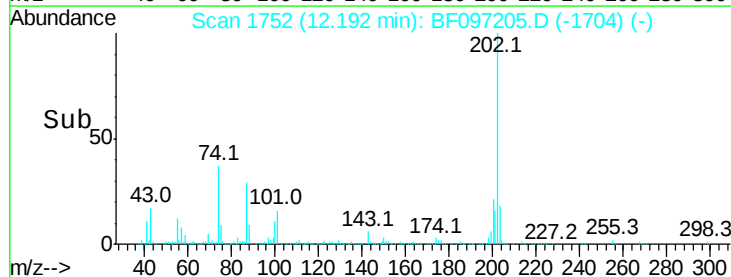
203 17.7 0.0 38.1



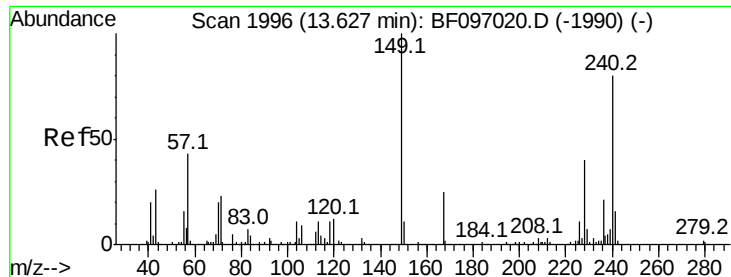
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.61 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

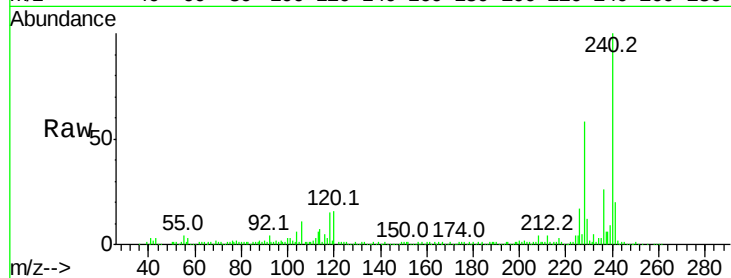
Tot Ion:240 Resp: 201533

Ion Ratio Lower Upper

240 100

120 16.2 5.8 8.8#

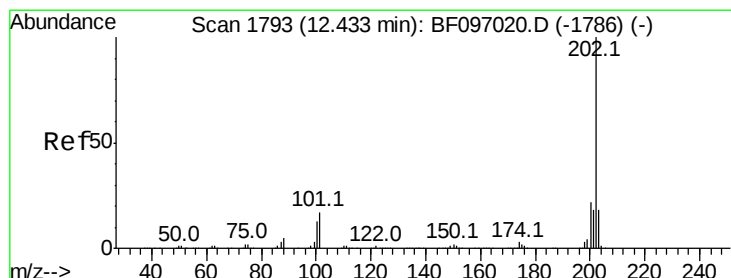
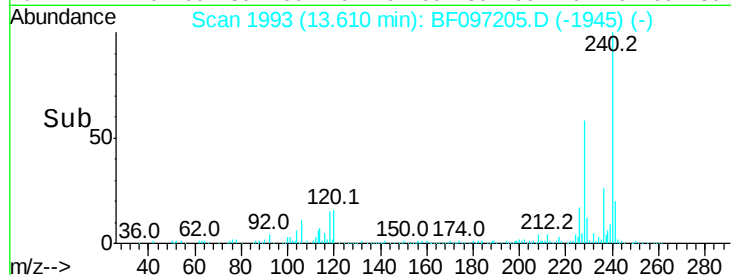
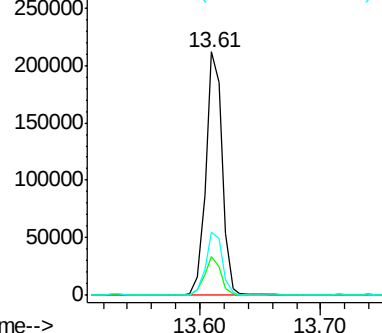
236 26.1 20.5 30.7



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

Pyrene

Concen: 29.090 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

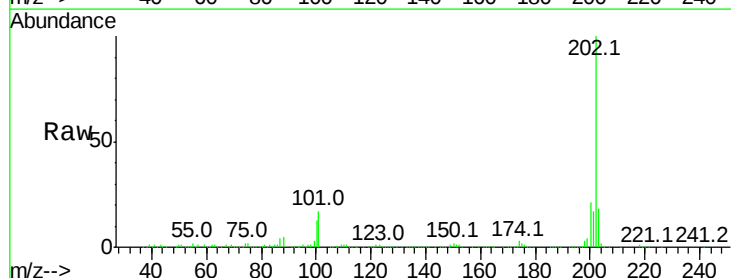
Tgt Ion:202 Resp: 479945

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

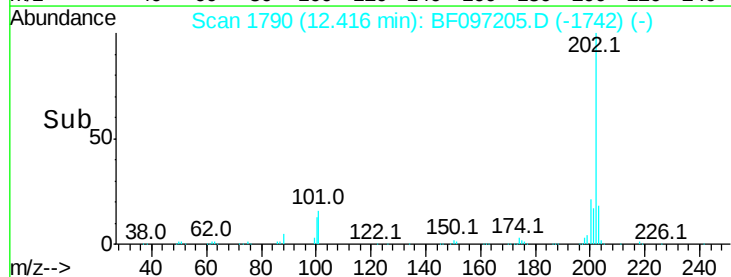
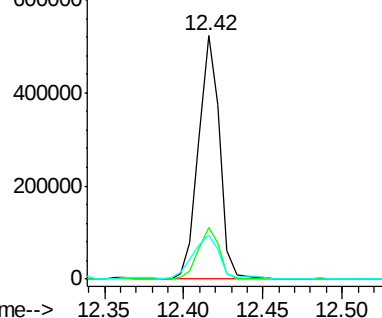
203 18.0 14.4 21.6

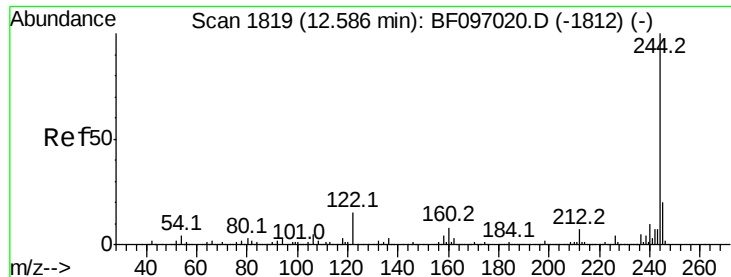


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 12.478 ng

RT: 12.57 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

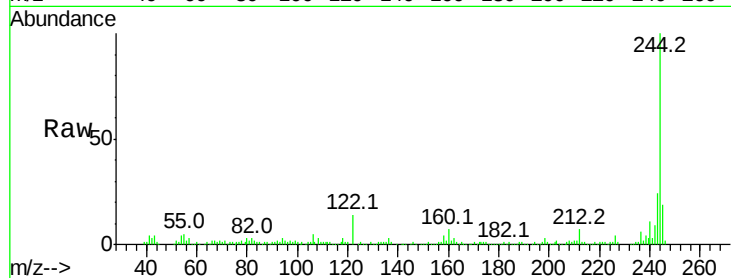
Tot Ion:244 Resp: 123339

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

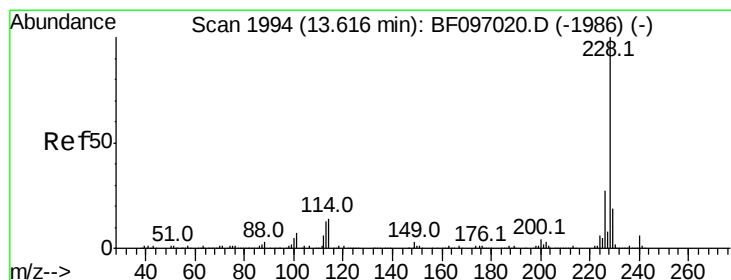
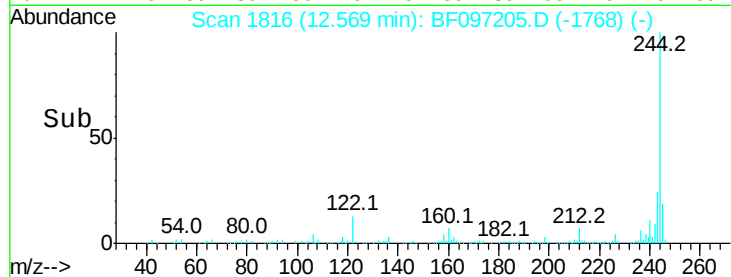
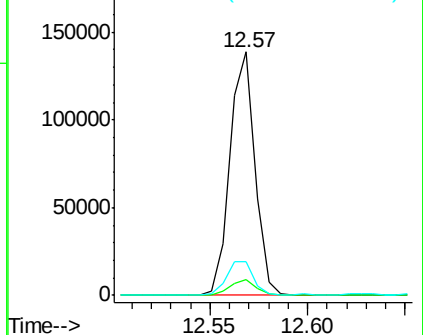
122 13.9 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 20.055 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

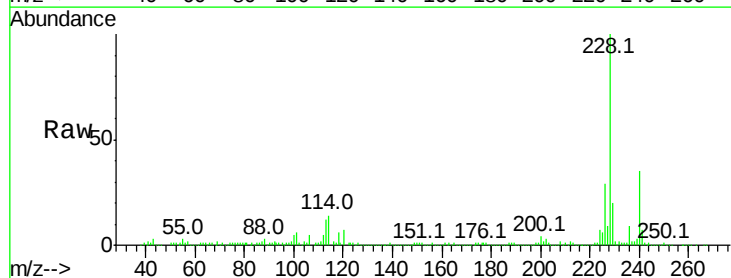
Tgt Ion:228 Resp: 261515

Ion Ratio Lower Upper

228 100

226 28.8 22.6 33.8

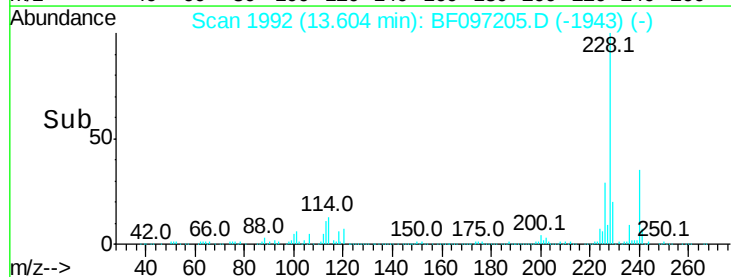
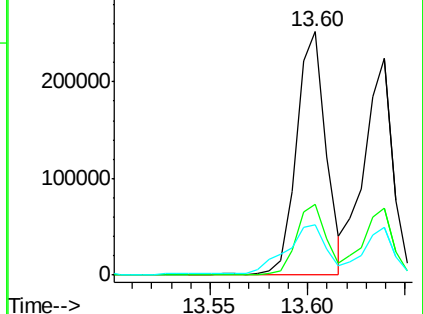
229 20.5 16.3 24.5

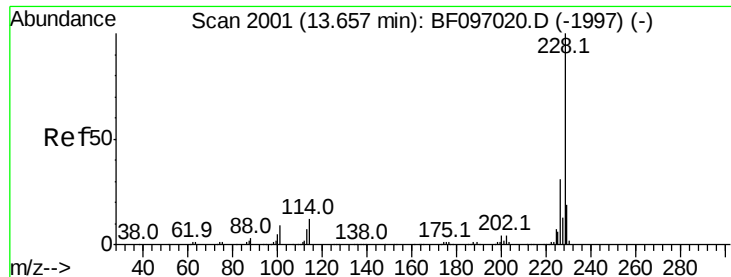


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 18.056 ng

RT: 13.64 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

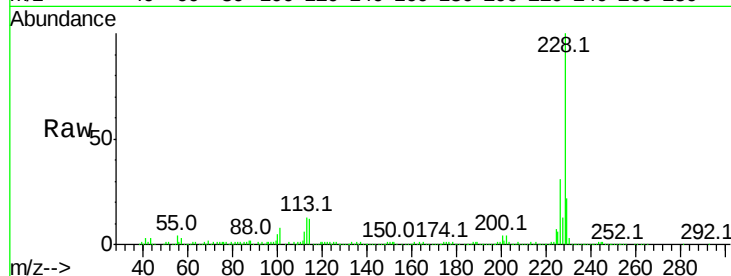
Tot Ion:228 Resp: 229906

Ion Ratio Lower Upper

228 100

226 30.9 24.9 37.3

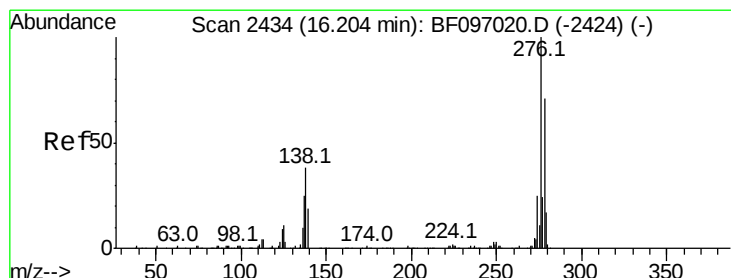
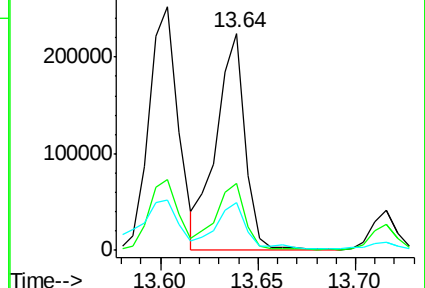
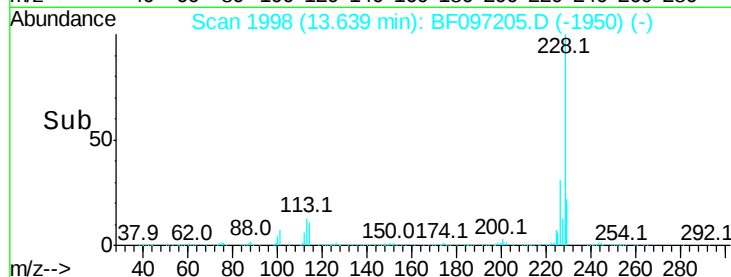
229 22.2 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 13.078 ng

RT: 16.19 min Scan# 2432

Delta R.T. -0.01 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

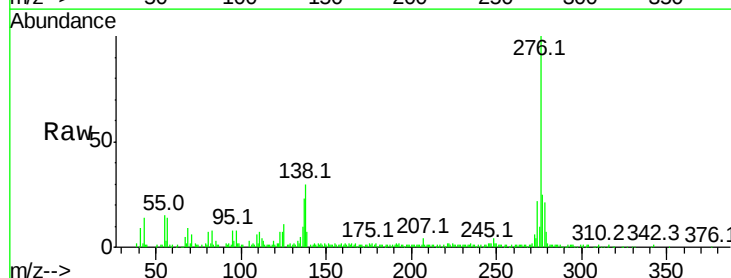
Tgt Ion:276 Resp: 142790

Ion Ratio Lower Upper

276 100

138 31.0 27.8 41.6

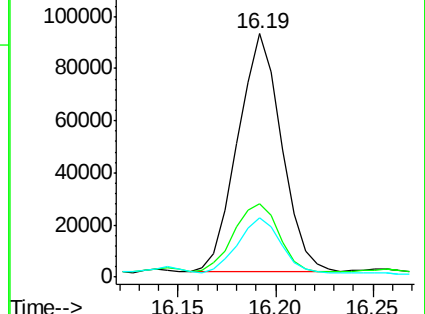
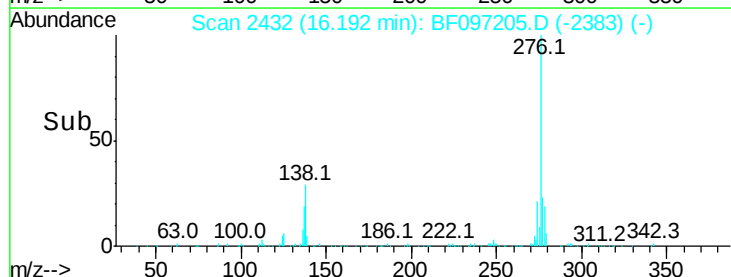
277 22.3 20.2 30.4

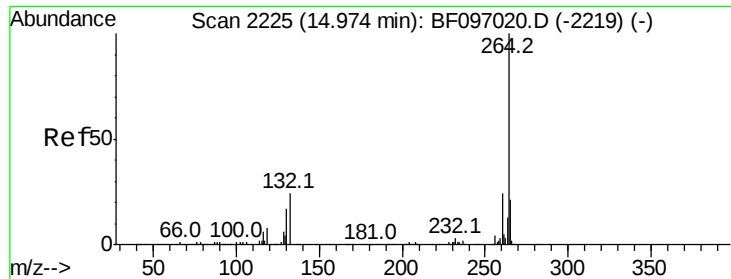


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 14.96 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Instrument :

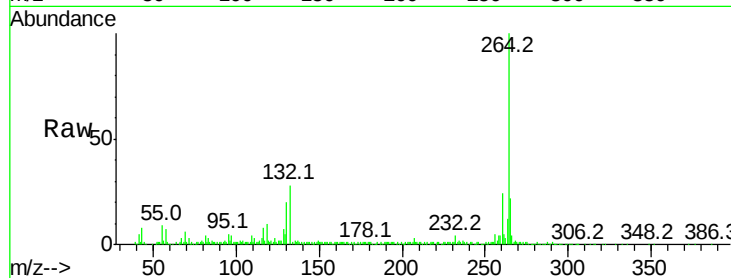
BNA_F

ClientSampleId :

HD-02-072617

Tot Ion:264 Resp: 206186

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	22.1	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

200000

150000

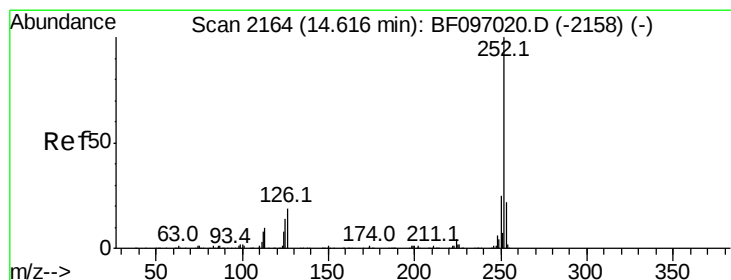
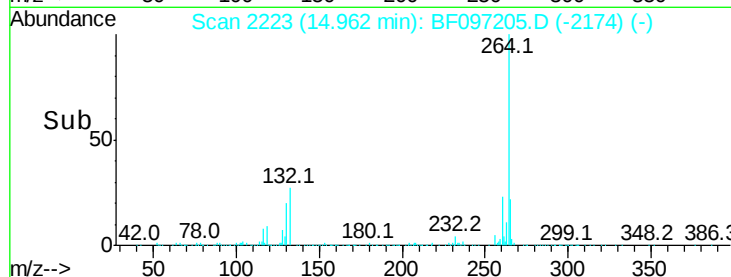
100000

50000

0

14.90 14.95 15.00

Time-->



#87

Benzo(b)fluoranthene

Concen: 33.899 ng

RT: 14.61 min Scan# 2163

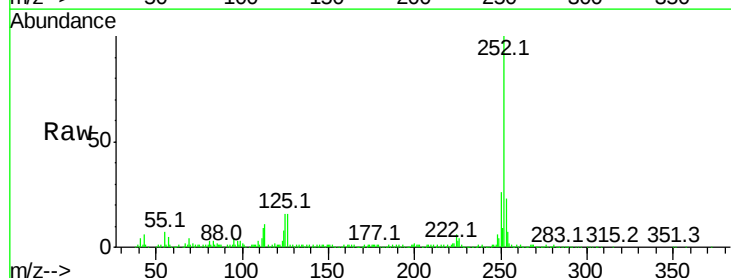
Delta R.T. -0.01 min

Lab File: BF097205.D

Acq: 31 Jul 2017 14:01

Tgt Ion:252 Resp: 420154

Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	15.7	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

300000

250000

200000

150000

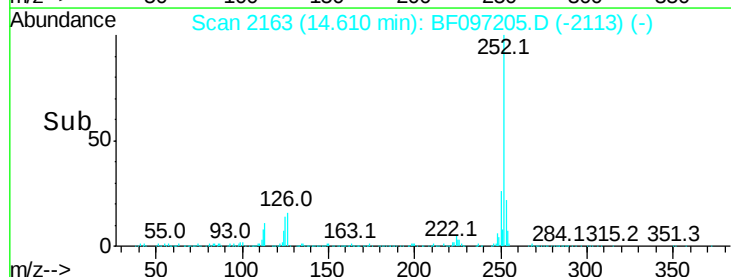
100000

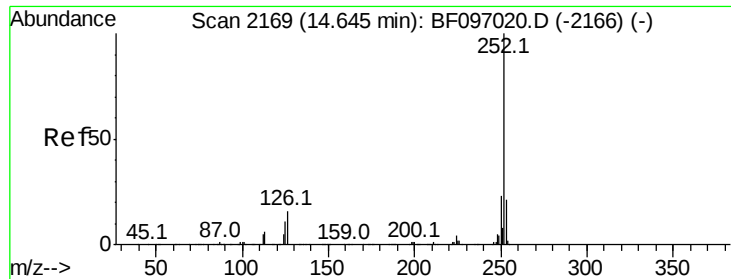
50000

0

14.55 14.60 14.65 14.70

Time-->

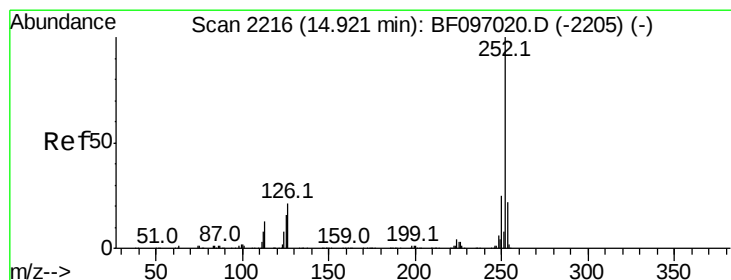
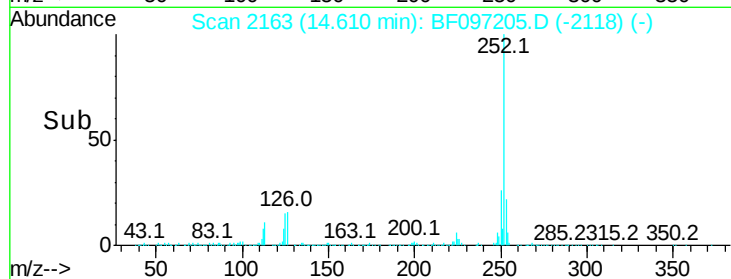
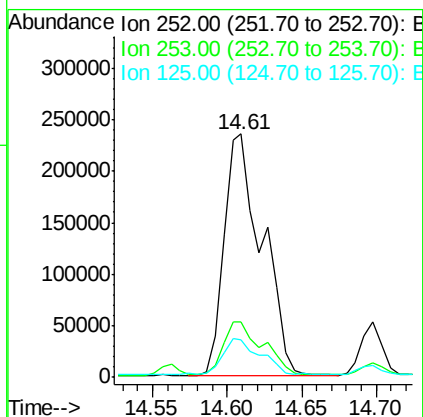
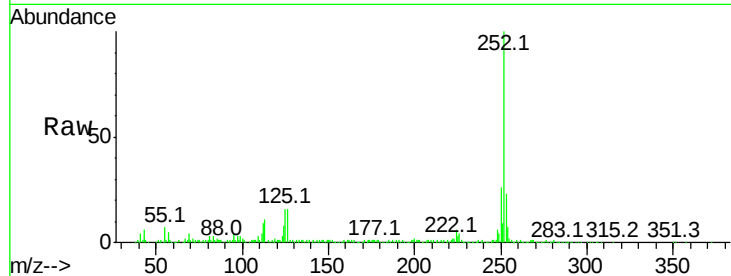




#88
Benzo(k)fluoranthene
Concen: 35.574 ng
RT: 14.61 min Scan# 2163
Delta R.T. -0.04 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

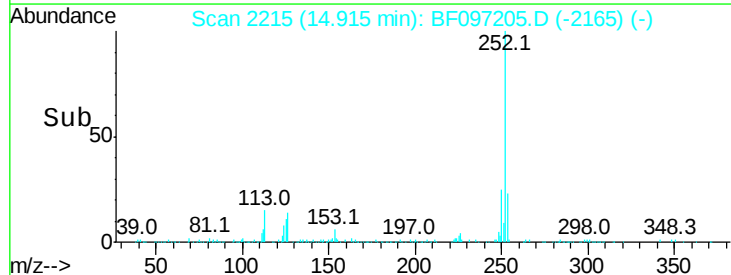
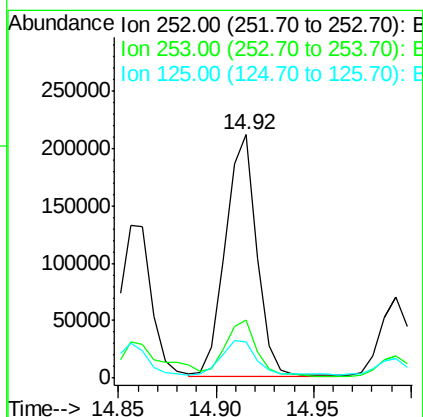
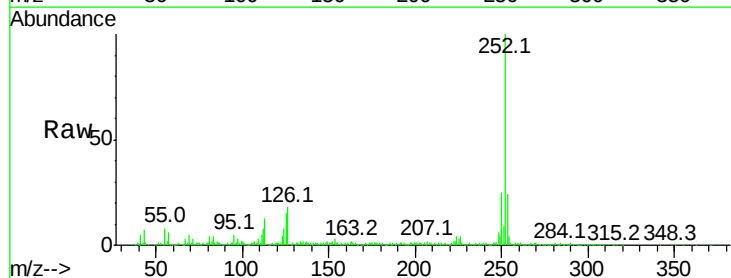
Instrument :
BNA_F
ClientSampleId :
HD-02-072617

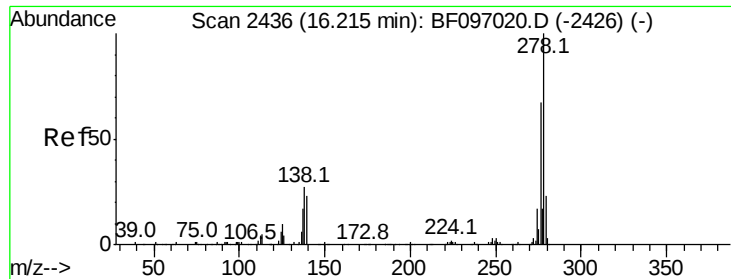
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	15.7	13.1	19.7



#89
Benzo(a)pyrene
Concen: 20.801 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.01 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	14.9	11.0	16.4



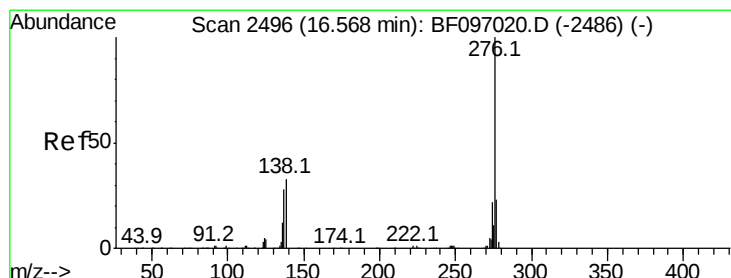
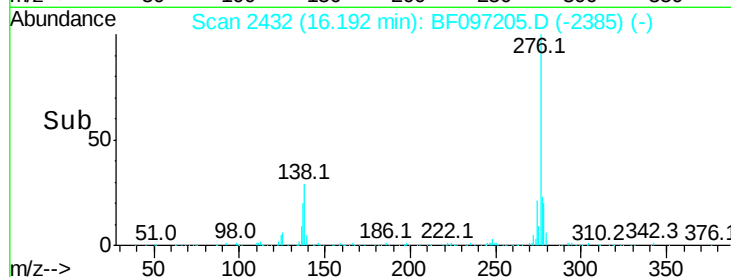
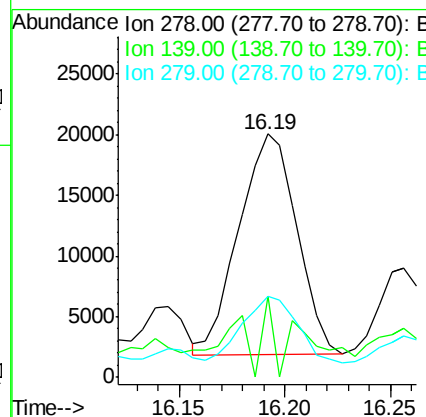
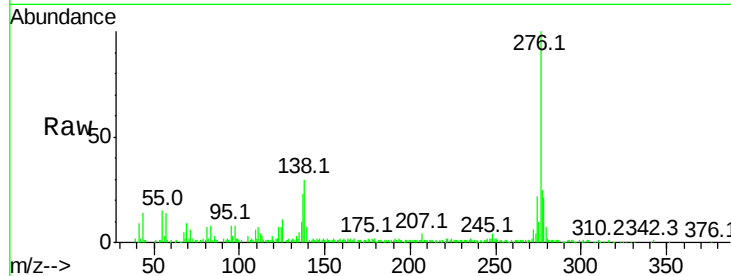


#90
Dibenzo(a,h)anthracene
Concen: 3.723 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.02 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Instrument :
BNA_F
ClientSampleId :
HD-02-072617

Tot Ion:278 Resp: 34634

Ion	Ratio	Lower	Upper
278	100		
139	33.3	16.6	24.8#
279	33.6	19.3	28.9#



#91
Benzo(g,h,i)perylene
Concen: 13.809 ng
RT: 16.56 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BF097205.D
Acq: 31 Jul 2017 14:01

Tgt Ion:276 Resp: 134711

Ion	Ratio	Lower	Upper
276	100		
277	22.8	18.6	28.0
138	34.7	25.4	38.0

