

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089571.D
 Acq On : 7 Feb 2015 23:41
 Operator : TP/IZ
 Sample : MDL-02-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:23:47 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	44309	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	193792	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	106734	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	180227	5.00	ng	0.00
16) Chrysene-d12	23.72	240	158048	5.00	ng	0.00
22) Perylene-d12	25.41	264	140642	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	107019	8.32	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	202303	7.10	ng	0.00
18) Terphenyl-d14	22.36	244	208630	10.01	ng	0.00

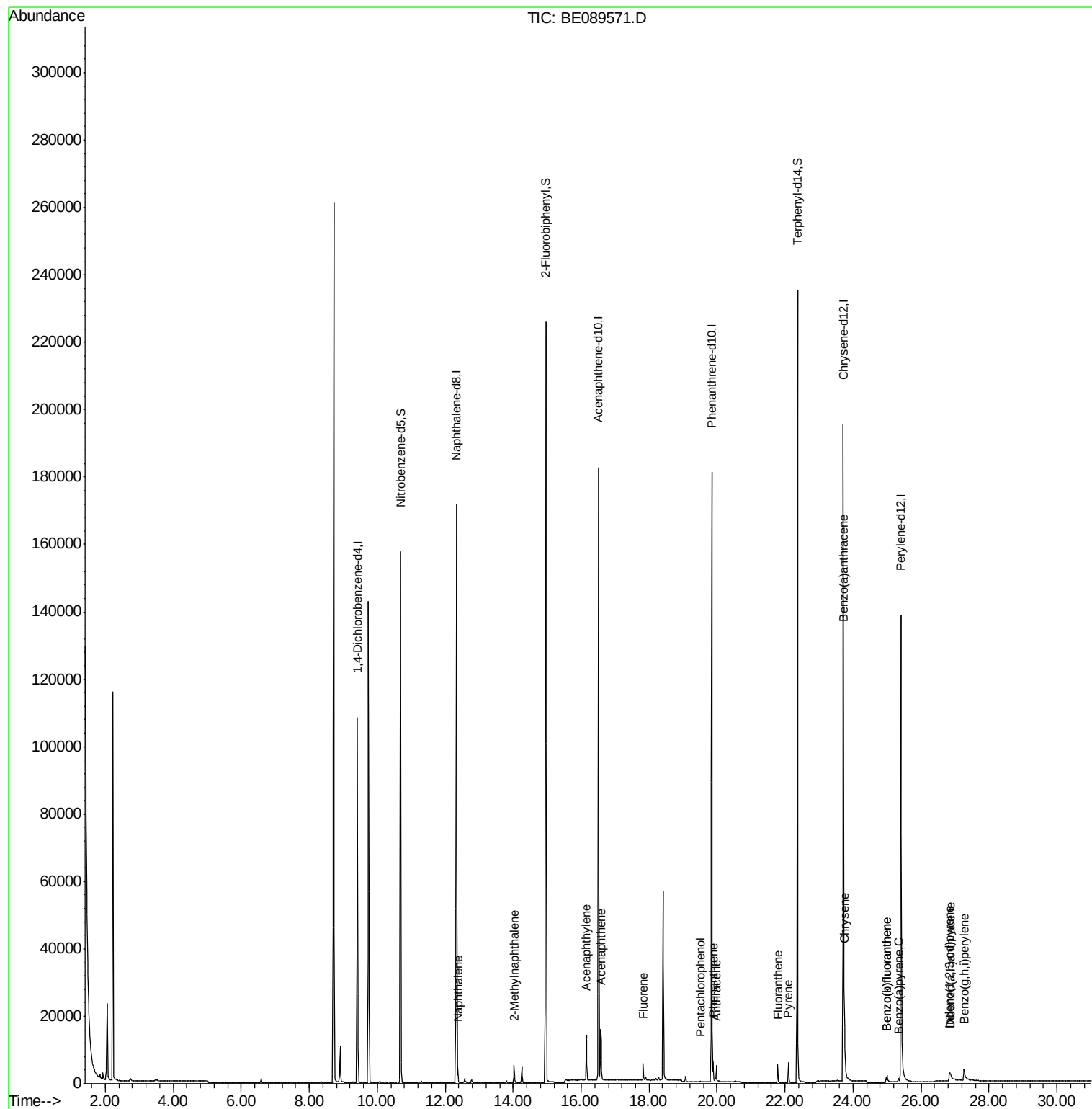
Target Compounds						Qvalue
4) Naphthalene	12.37	128	5469	0.13	ng	98
5) 2-Methylnaphthalene	14.03	142	3197	0.13	ng	# 95
8) Acenaphthylene	16.16	152	17490	0.10	ng	99
9) Acenaphthene	16.58	154	3053	0.11	ng	96
10) Fluorene	17.83	166	3251	0.11	ng	98
12) Pentachlorophenol	19.52	266	95	0.60	ng	86
13) Phenanthrene	19.89	178	5590	0.13	ng	98
14) Anthracene	19.98	178	4358	0.12	ng	99
15) Fluoranthene	21.78	202	4126	0.10	ng	97
17) Pyrene	22.10	202	4386	0.13	ng	99
19) Benzo(a)anthracene	23.70	228	15016	0.11	ng	96
20) Chrysene	23.75	228	19251	0.13	ng	97
21) Indeno(1,2,3-cd)pyrene	26.84	276	7555	0.04	ng	98
23) Benzo(b)fluoranthene	25.00	252	3078	0.11	ng	93
24) Benzo(k)fluoranthene	25.00	252	3078	0.09	ng	93
25) Benzo(a)pyrene	25.34	252	1753	0.06	ng	95
26) Dibenzo(a,h)anthracene	26.87	278	1421	0.04	ng	# 74
27) Benzo(g,h,i)perylene	27.27	276	9284	0.07	ng	# 92

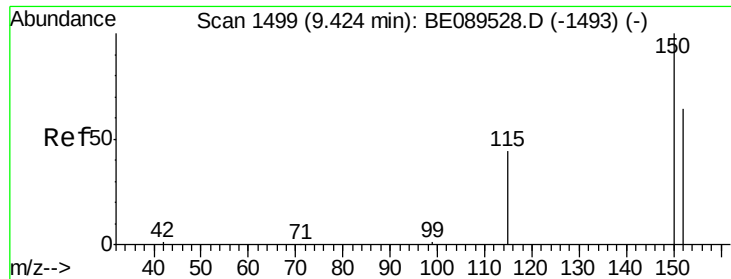
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

Instrument :

BNA_E

ClientSampleId :

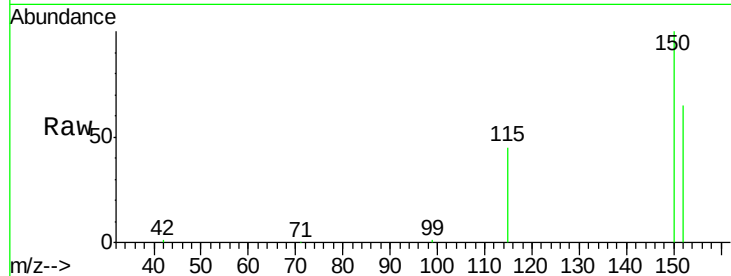
Tgt Ion:152 Resp: 44309

Ion Ratio Lower Upper

152 100

150 154.8 125.7 188.5

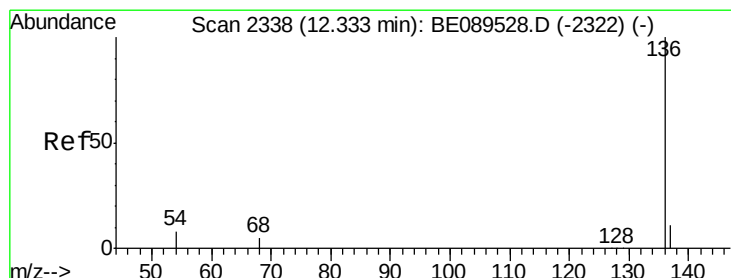
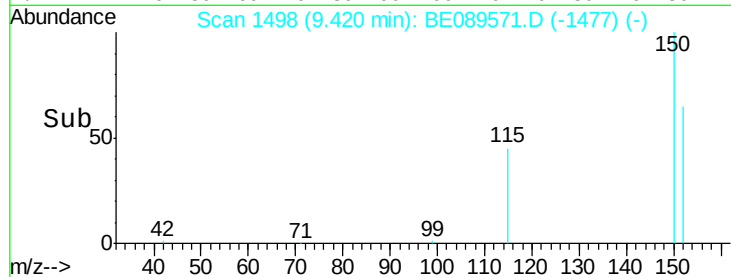
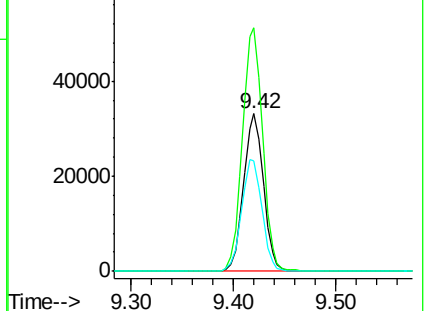
115 69.9 55.6 83.4



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



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2338

Delta R.T. -0.00 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

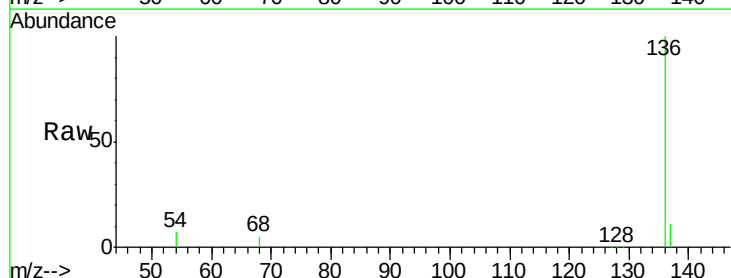
Tgt Ion:136 Resp: 193792

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

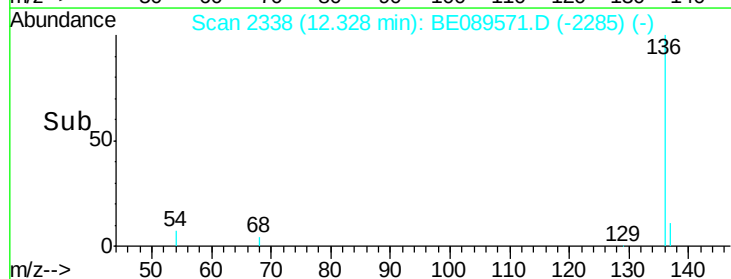
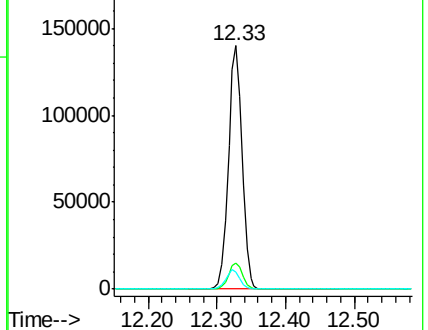
54 7.2 6.1 9.1

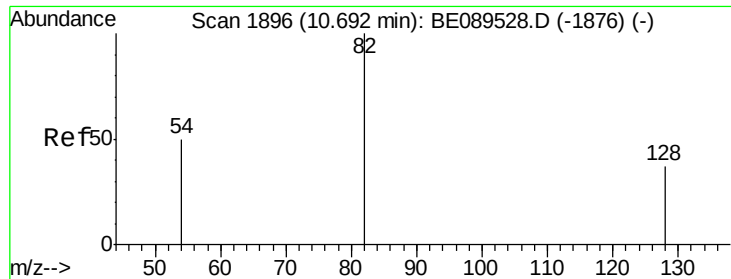


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 8.32 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

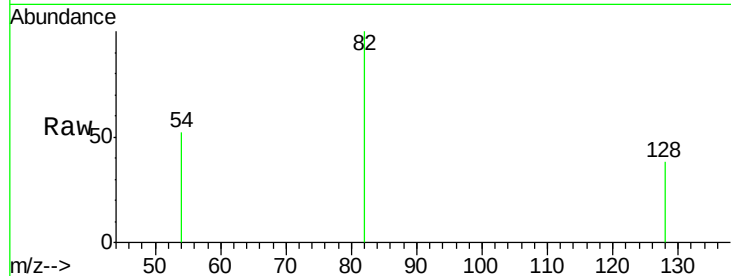
Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

Instrument :

BNA_E

ClientSampleId :



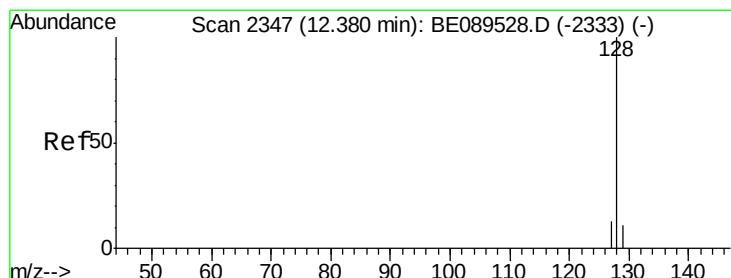
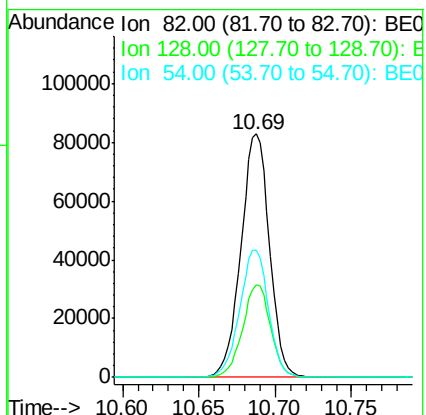
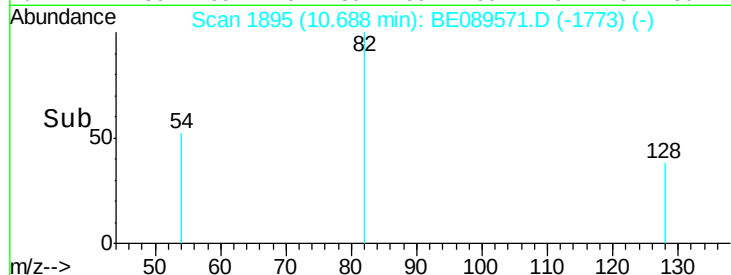
Tgt Ion: 82 Resp: 107019

Ion Ratio Lower Upper

82 100

128 38.1 30.2 45.4

54 52.3 40.6 60.8



#4

Naphthalene

Concen: 0.13 ng

RT: 12.37 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

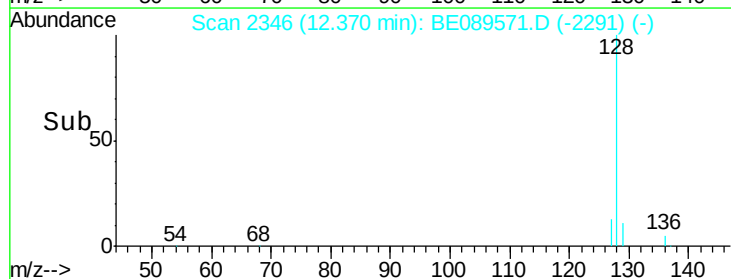
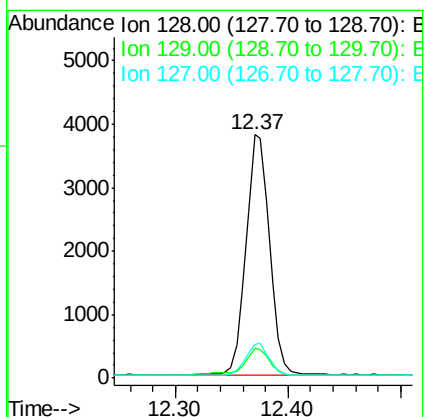
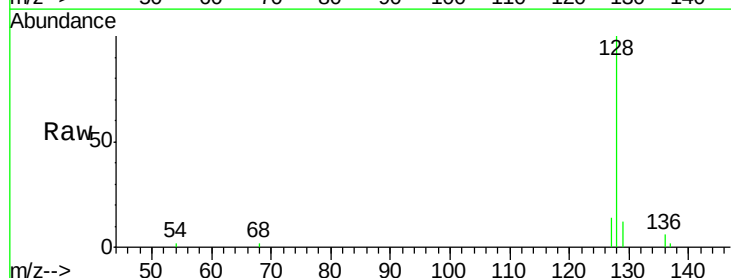
Tgt Ion: 128 Resp: 5469

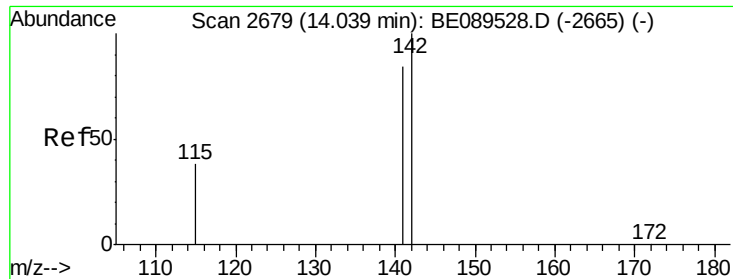
Ion Ratio Lower Upper

128 100

129 12.3 9.1 13.7

127 13.8 10.5 15.7





#5

2-Methylnaphthalene

Concen: 0.13 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.01 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

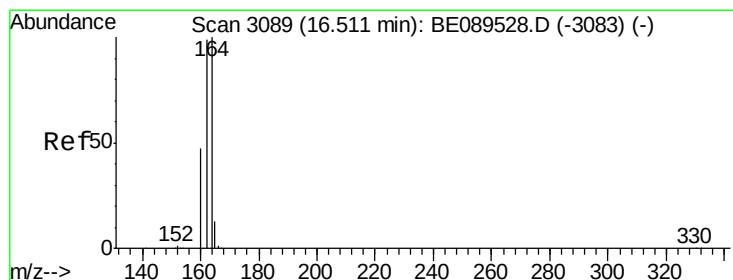
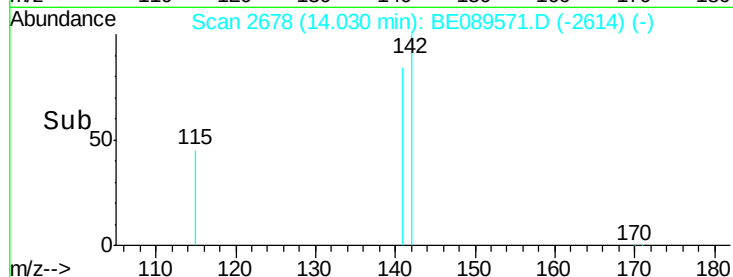
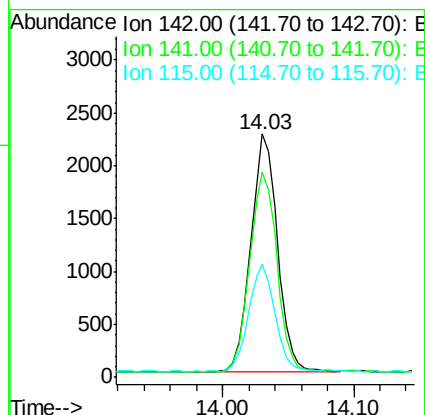
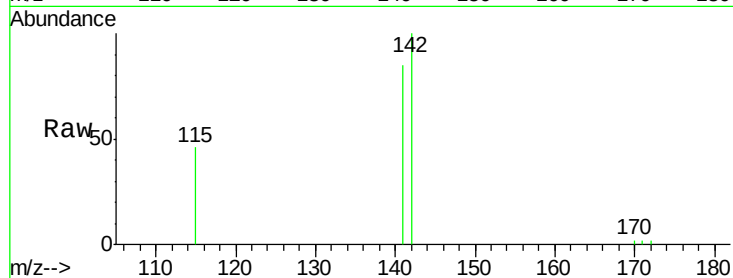
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:142 Resp: 3197

Ion	Ratio	Lower	Upper
142	100		
141	84.5	67.0	100.6
115	46.2	30.6	45.8



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3090

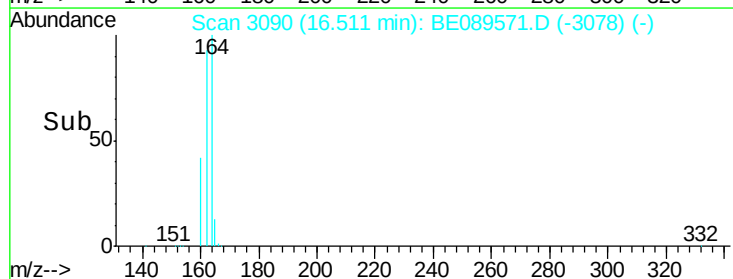
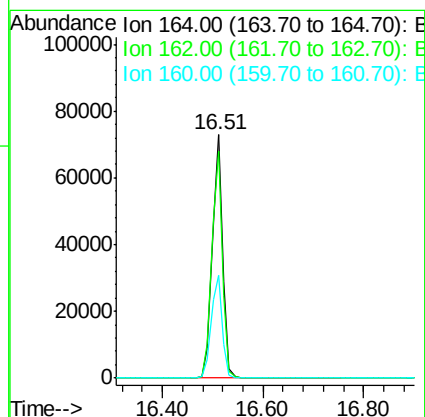
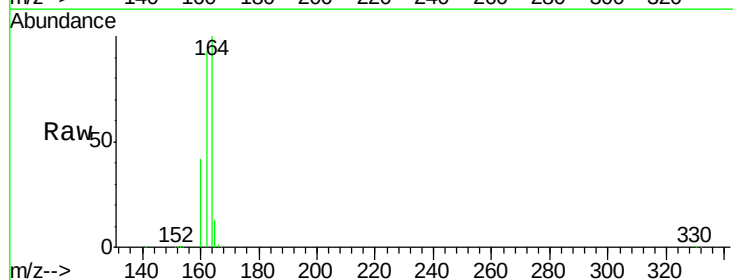
Delta R.T. 0.00 min

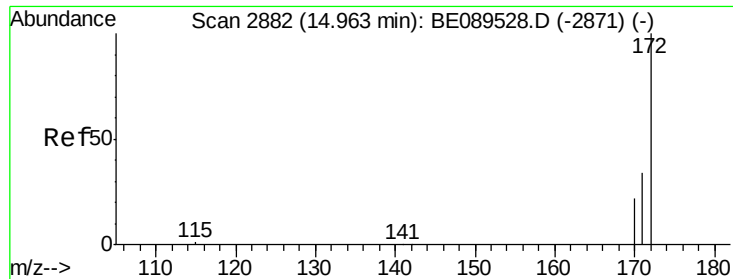
Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

Tgt Ion:164 Resp: 106734

Ion	Ratio	Lower	Upper
164	100		
162	93.2	79.5	119.3
160	42.3	37.6	56.4





#7

2-Fluorobiphenyl

Concen: 7.10 ng

RT: 14.96 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

Instrument :

BNA_E

ClientSampleId :

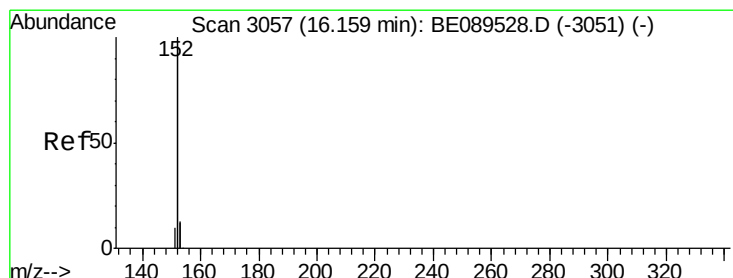
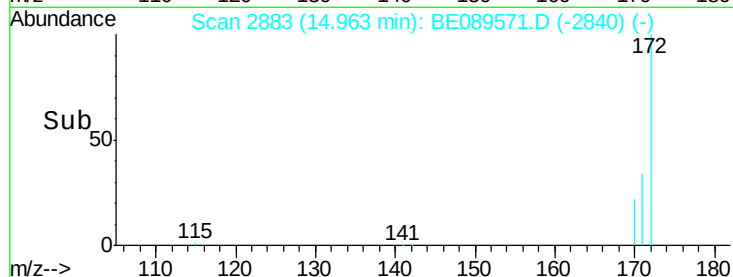
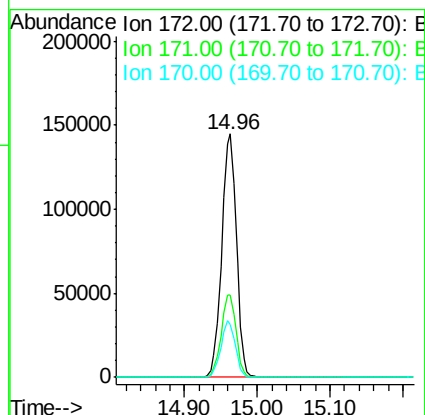
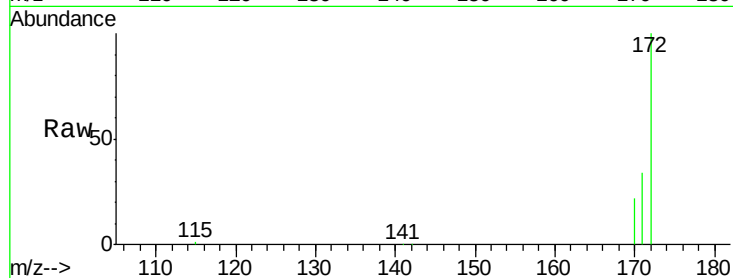
Tgt Ion:172 Resp: 202303

Ion Ratio Lower Upper

172 100

171 33.6 27.7 41.5

170 21.6 18.3 27.5



#8

Acenaphthylene

Concen: 0.10 ng

RT: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

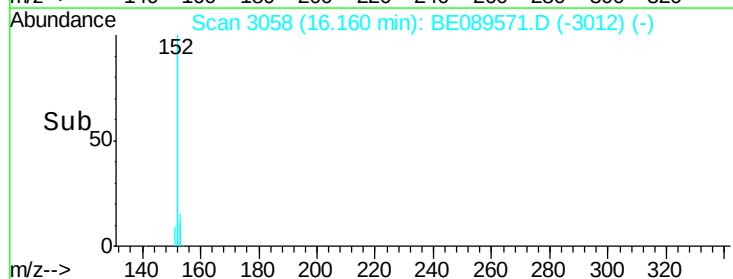
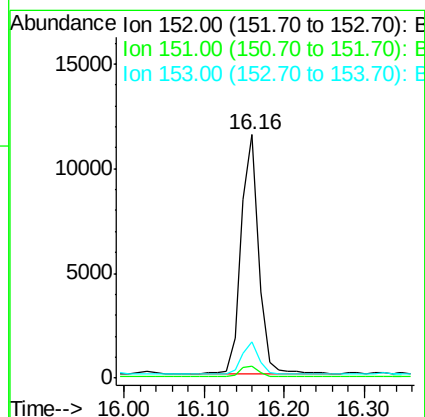
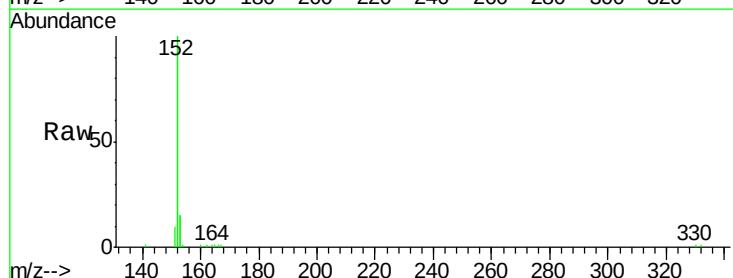
Tgt Ion:152 Resp: 17490

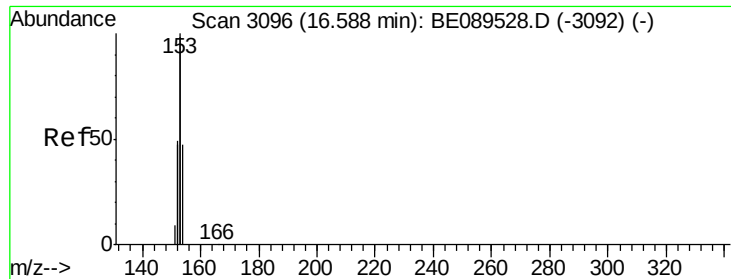
Ion Ratio Lower Upper

152 100

151 5.0 4.0 6.0

153 12.6 10.6 15.8





#9

Acenaphthene

Concen: 0.11 ng

RT: 16.58 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

Instrument :

BNA_E

ClientSampleId :

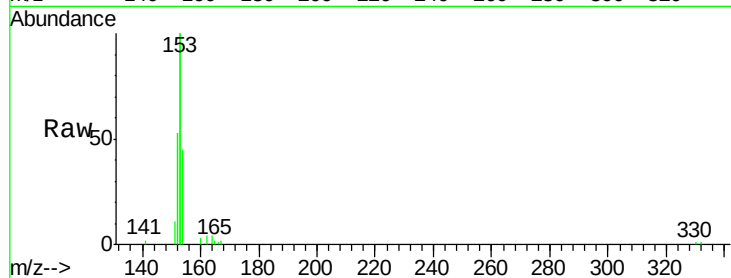
Tgt Ion:154 Resp: 3053

Ion Ratio Lower Upper

154 100

153 427.9 340.8 511.2

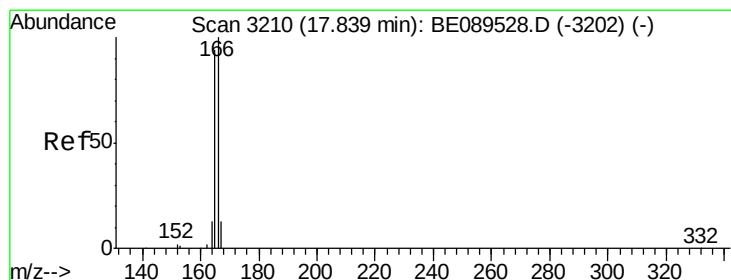
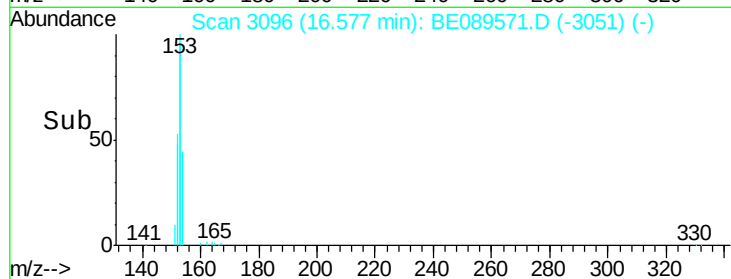
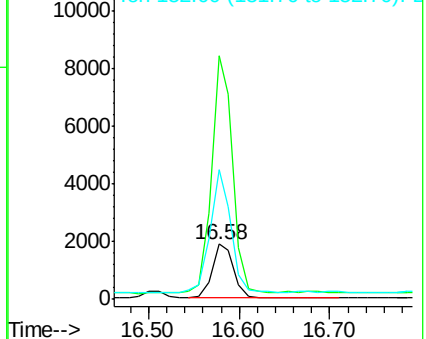
152 222.4 165.5 248.3



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



#10

Fluorene

Concen: 0.11 ng

RT: 17.83 min Scan# 3210

Delta R.T. -0.01 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

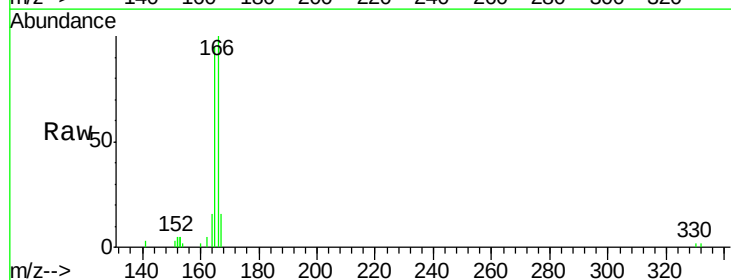
Tgt Ion:166 Resp: 3251

Ion Ratio Lower Upper

166 100

165 92.9 75.5 113.3

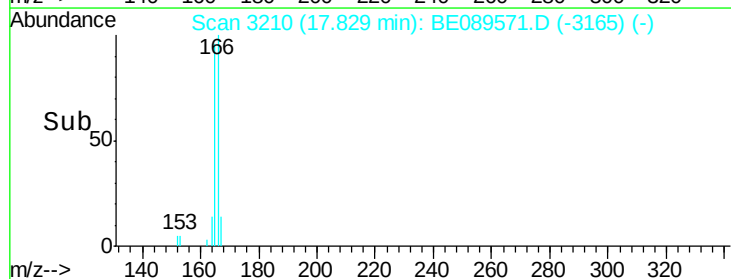
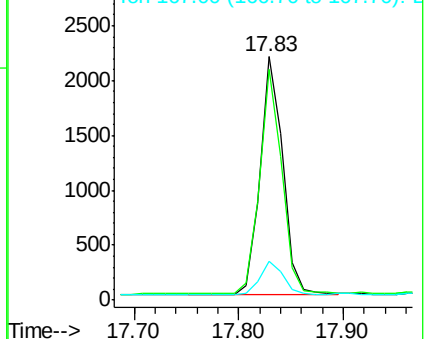
167 14.3 10.9 16.3

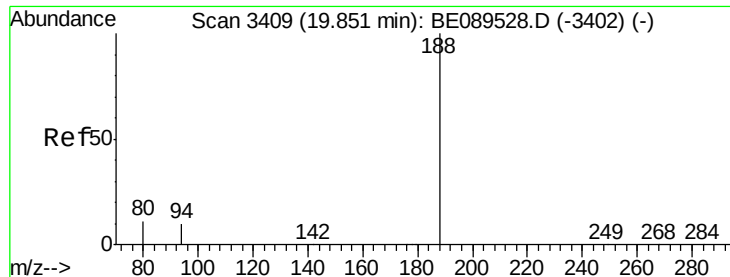


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

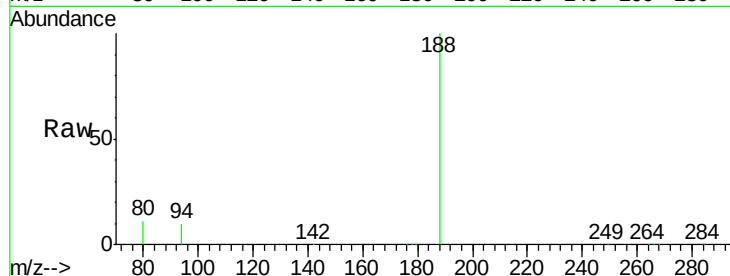




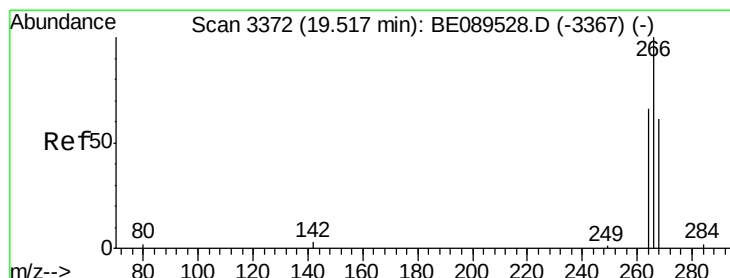
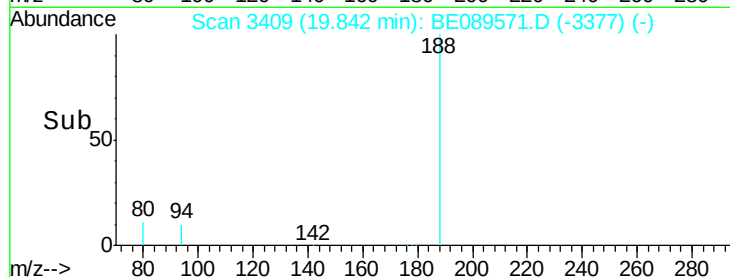
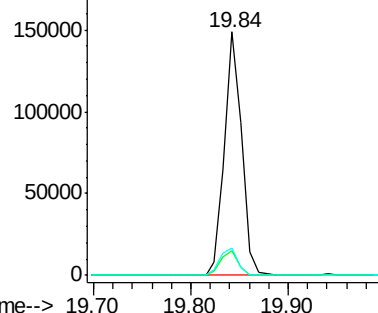
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3409
Delta R.T. -0.01 min
Lab File: BE089571.D
Acq: 7 Feb 2015 23:41

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 180227
Ion Ratio Lower Upper
188 100
94 10.2 8.4 12.6
80 11.0 8.6 12.8

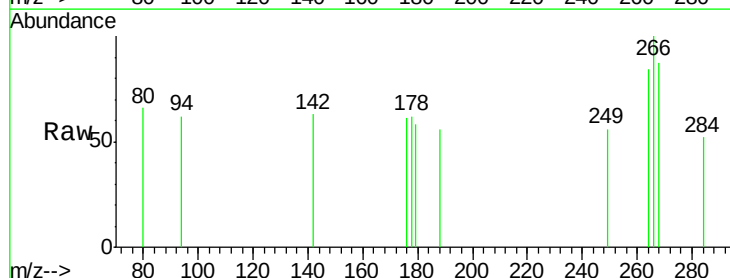


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

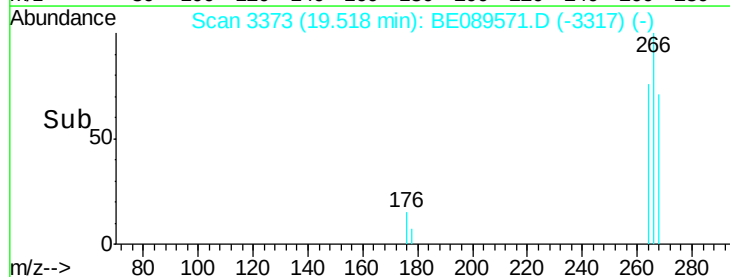
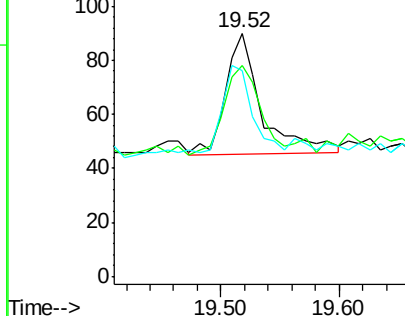


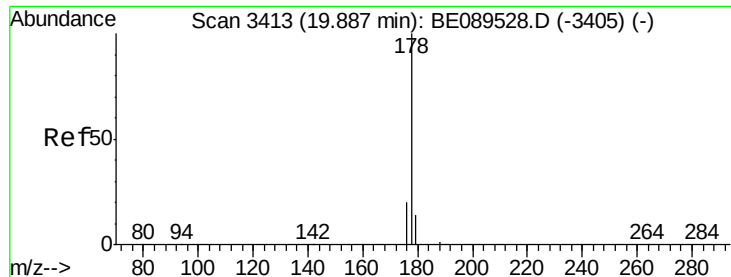
#12
Pentachlorophenol
Concen: 0.60 ng
RT: 19.52 min Scan# 3373
Delta R.T. 0.00 min
Lab File: BE089571.D
Acq: 7 Feb 2015 23:41

Tgt Ion:266 Resp: 95
Ion Ratio Lower Upper
266 100
268 86.7 57.9 86.9
264 84.4 60.2 90.4



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E

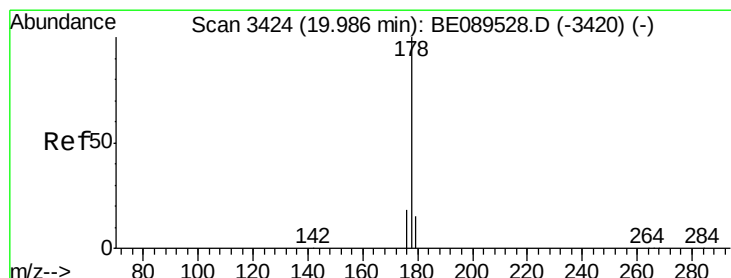
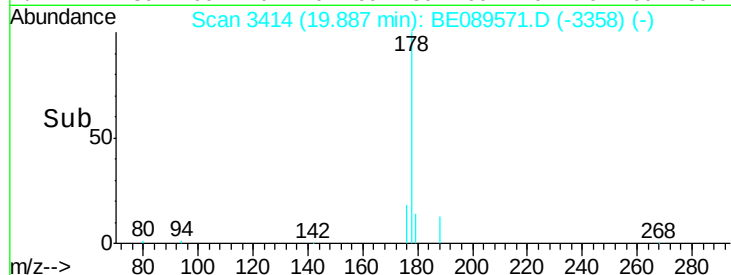
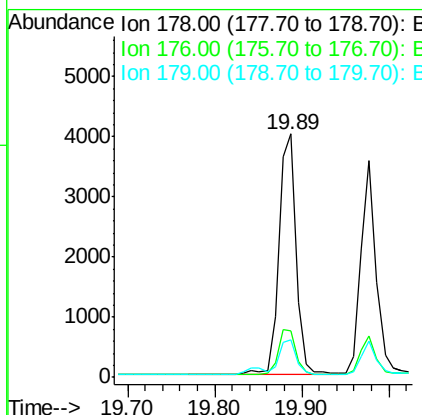
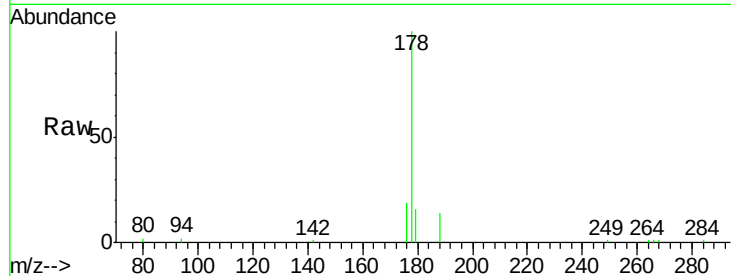




#13
Phenanthrene
Concen: 0.13 ng
RT: 19.89 min Scan# 3414
Delta R.T. 0.00 min
Lab File: BE089571.D
Acq: 7 Feb 2015 23:41

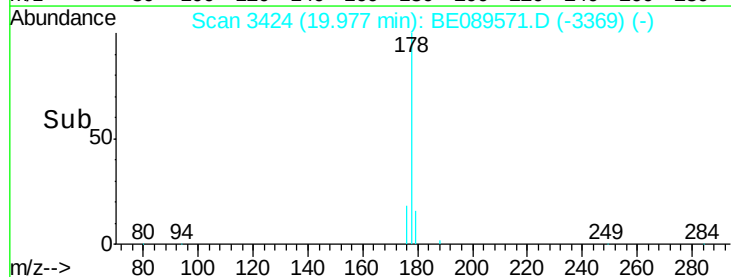
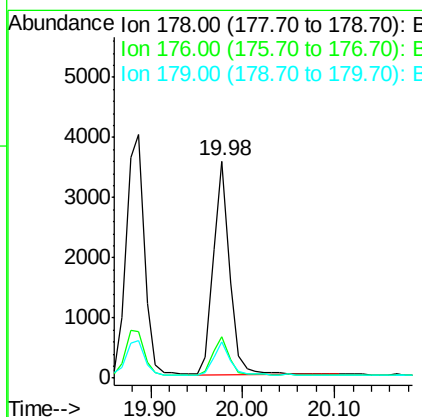
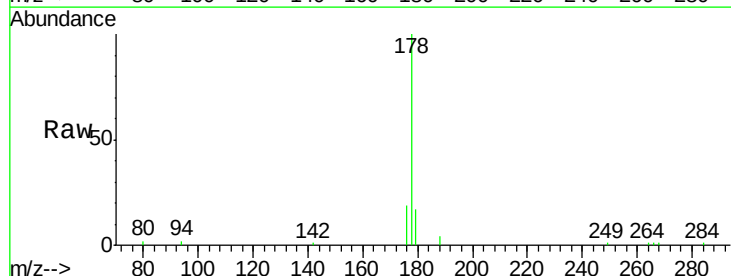
Instrument :
BNA_E
ClientSampled :

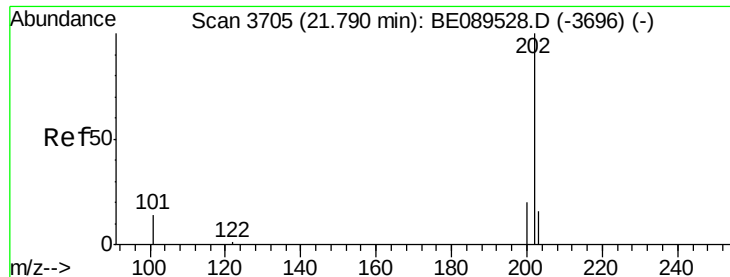
Tgt Ion:178 Resp: 5590
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 17.0 12.2 18.2



#14
Anthracene
Concen: 0.12 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089571.D
Acq: 7 Feb 2015 23:41

Tgt Ion:178 Resp: 4358
Ion Ratio Lower Upper
178 100
176 18.6 14.5 21.7
179 15.0 12.2 18.2

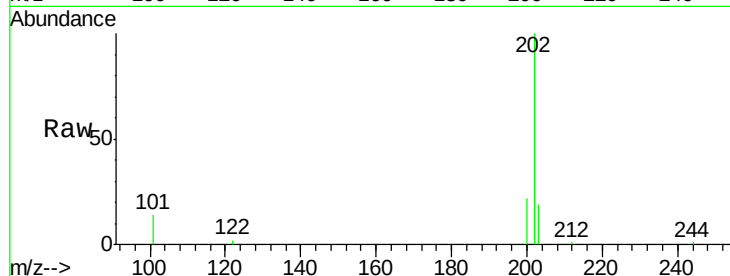




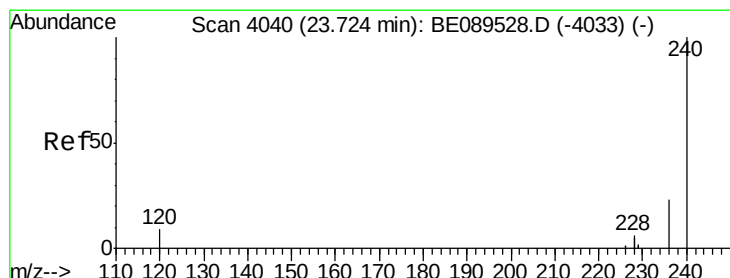
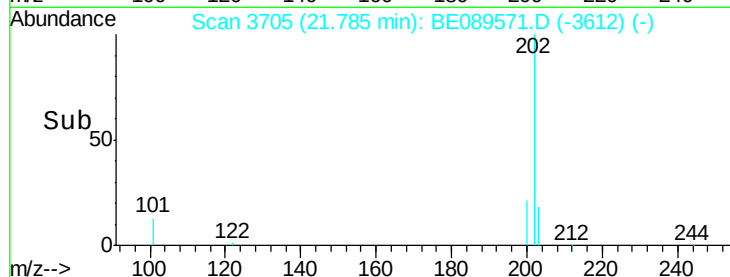
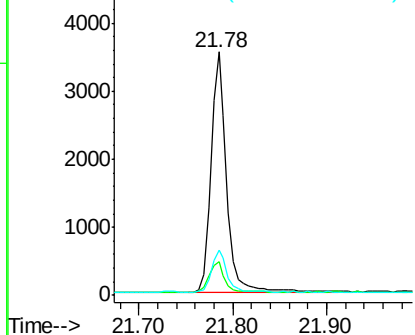
#15
 Fluoranthene
 Concen: 0.10 ng
 RT: 21.78 min Scan# 3705
 Delta R.T. -0.00 min
 Lab File: BE089571.D
 Acq: 7 Feb 2015 23:41

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 4126
 Ion Ratio Lower Upper
 202 100
 101 12.4 11.6 17.4
 203 17.3 13.6 20.4

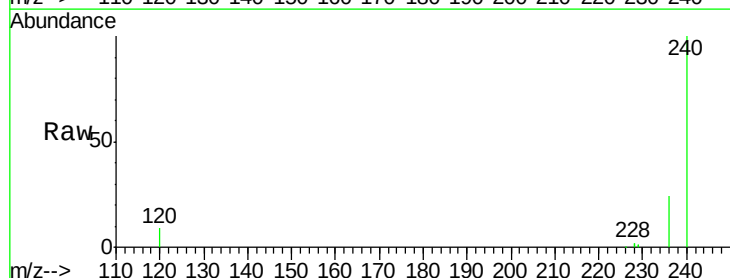


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

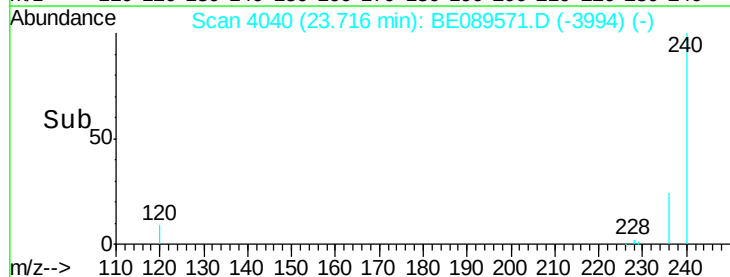
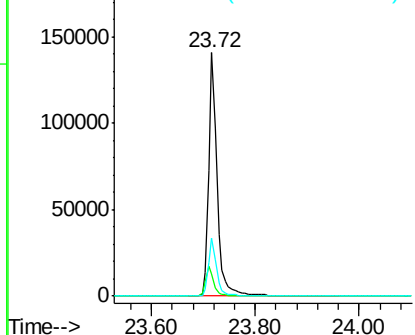


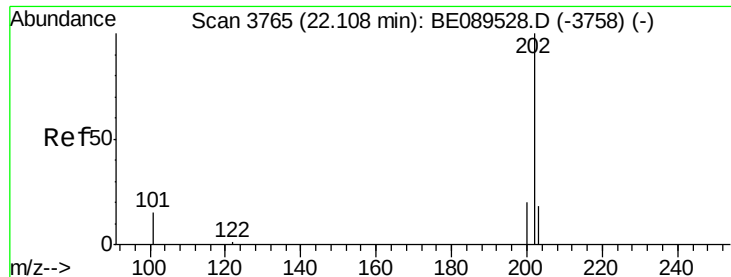
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.01 min
 Lab File: BE089571.D
 Acq: 7 Feb 2015 23:41

Tgt Ion: 240 Resp: 158048
 Ion Ratio Lower Upper
 240 100
 120 9.2 7.2 10.8
 236 24.0 18.5 27.7



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

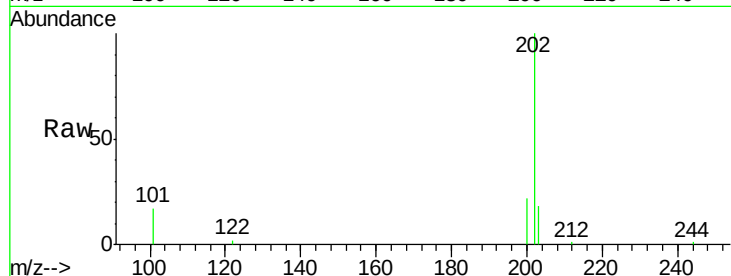




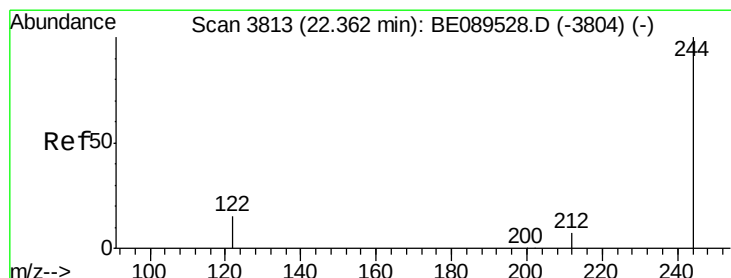
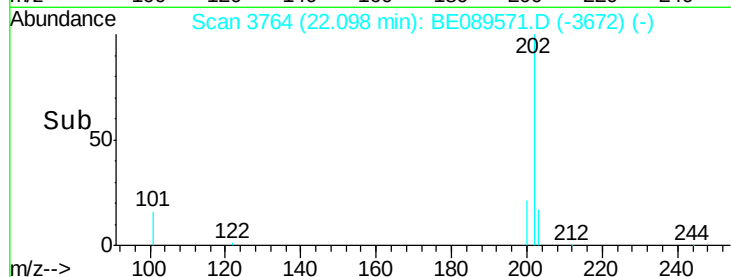
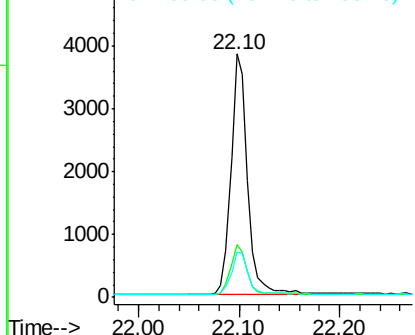
#17
Pyrene
Concen: 0.13 ng
RT: 22.10 min Scan# 3764
Delta R.T. -0.01 min
Lab File: BE089571.D
Acq: 7 Feb 2015 23:41

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:202 Resp: 4386
Ion Ratio Lower Upper
202 100
200 20.5 16.3 24.5
203 18.0 13.5 20.3

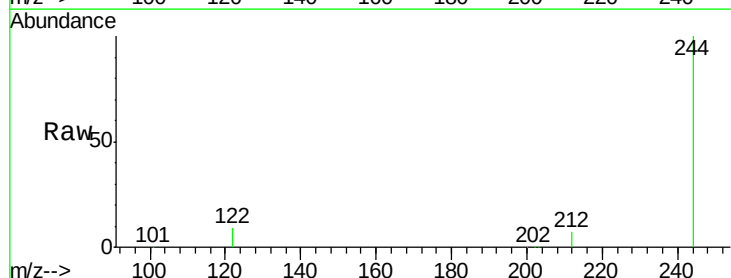


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

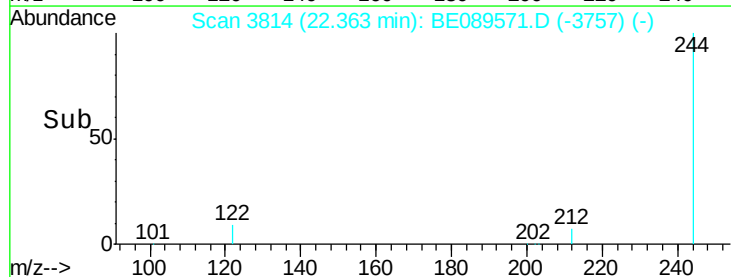
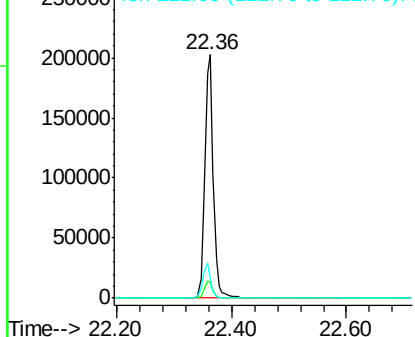


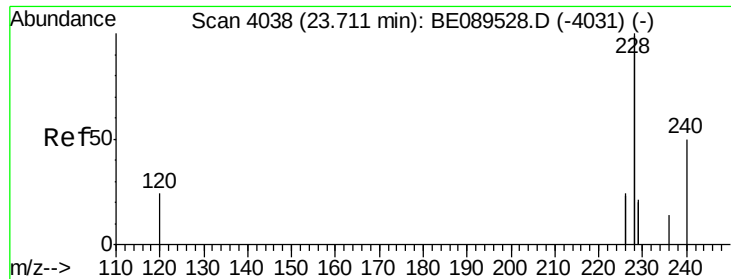
#18
Terphenyl-d14
Concen: 10.01 ng
RT: 22.36 min Scan# 3814
Delta R.T. 0.00 min
Lab File: BE089571.D
Acq: 7 Feb 2015 23:41

Tgt Ion:244 Resp: 208630
Ion Ratio Lower Upper
244 100
212 6.7 5.8 8.8
122 8.8 12.6 19.0#



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





#19

Benzo(a)anthracene

Concen: 0.11 ng

RT: 23.70 min Scan# 4038

Delta R.T. -0.01 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

Instrument :

BNA_E

ClientSampleId :

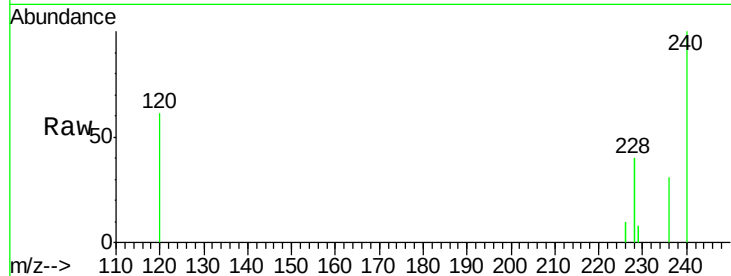
Tgt Ion:228 Resp: 15016

Ion Ratio Lower Upper

228 100

226 25.9 19.0 28.4

229 19.7 16.8 25.2

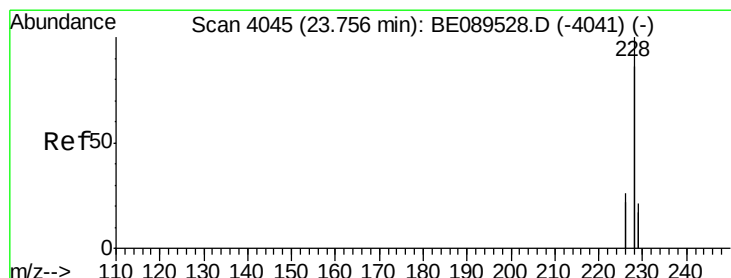
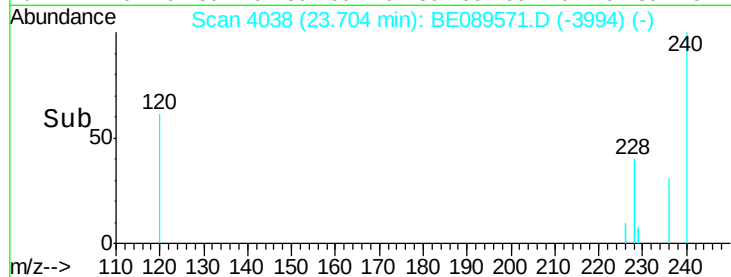
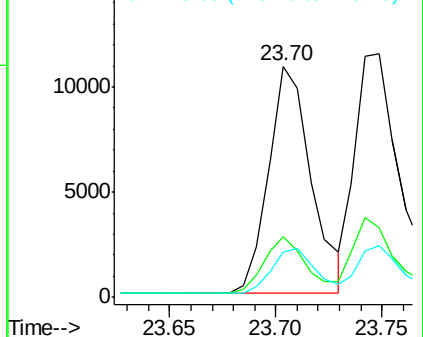


Abundance

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



#20

Chrysene

Concen: 0.13 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

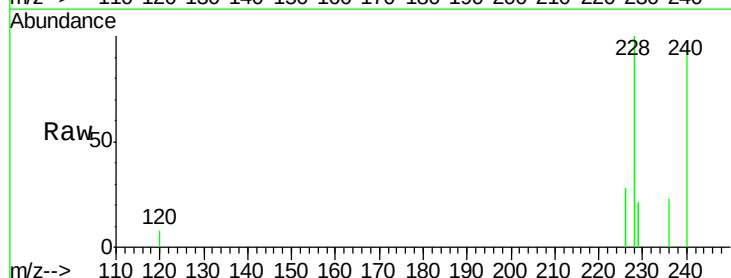
Tgt Ion:228 Resp: 19251

Ion Ratio Lower Upper

228 100

226 28.3 21.0 31.4

229 21.3 16.7 25.1

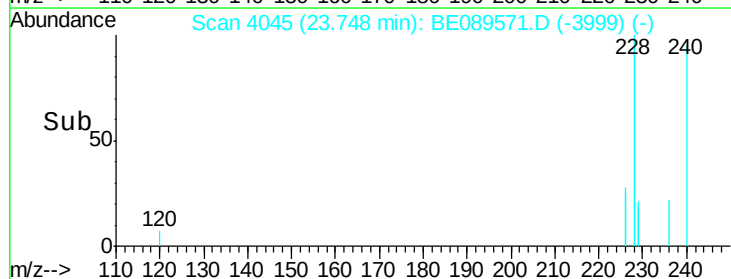
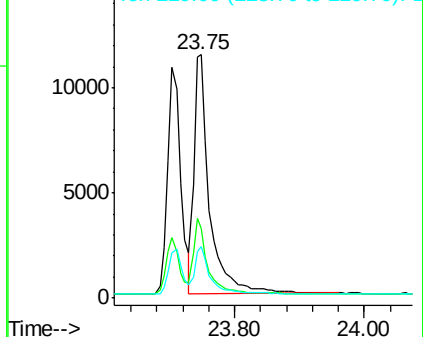


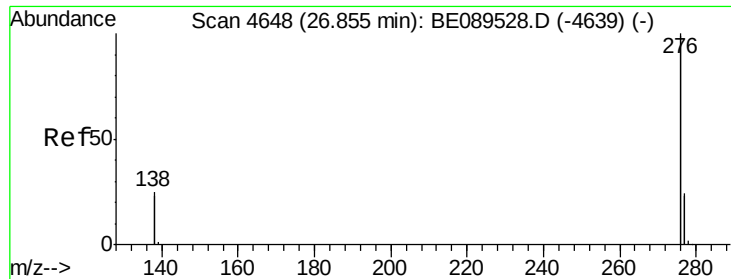
Abundance

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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.04 ng

RT: 26.84 min Scan# 4647

Delta R.T. -0.01 min

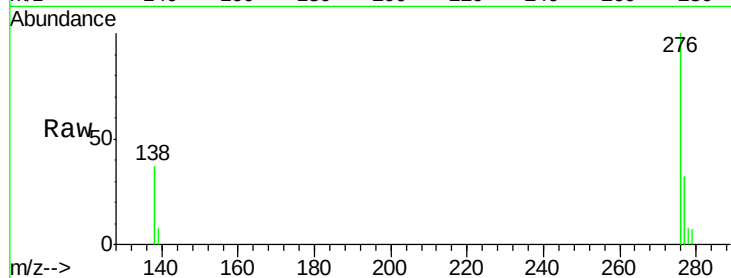
Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

Instrument :

BNA_E

ClientSampleId :



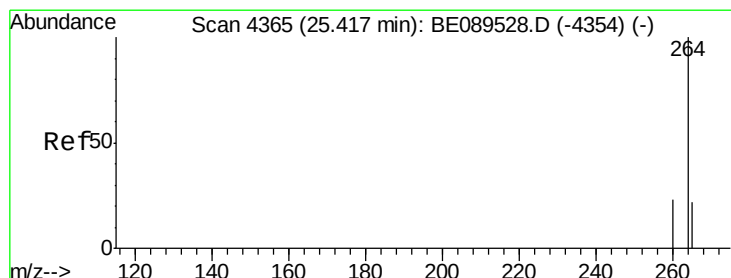
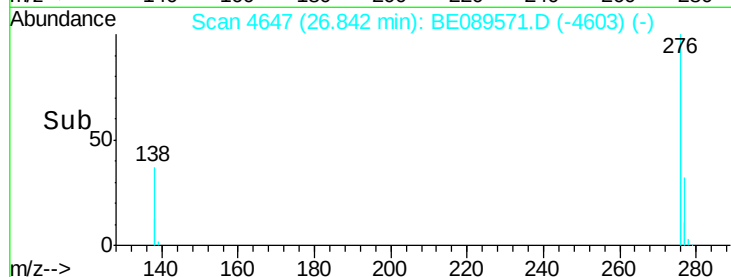
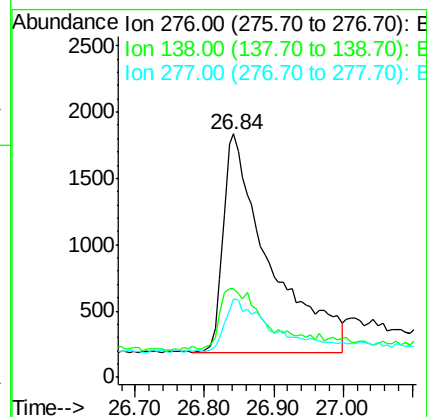
Tgt Ion: 276 Resp: 7555

Ion Ratio Lower Upper

276 100

138 27.7 23.0 34.4

277 23.7 19.9 29.9



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4365

Delta R.T. -0.01 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

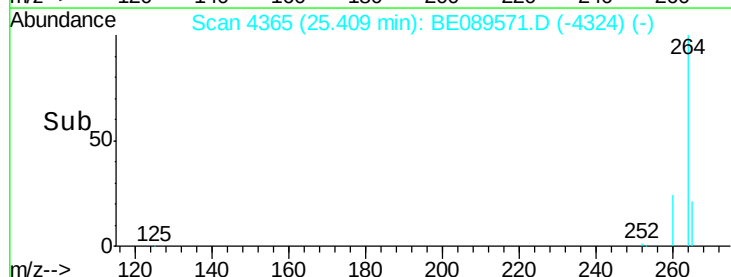
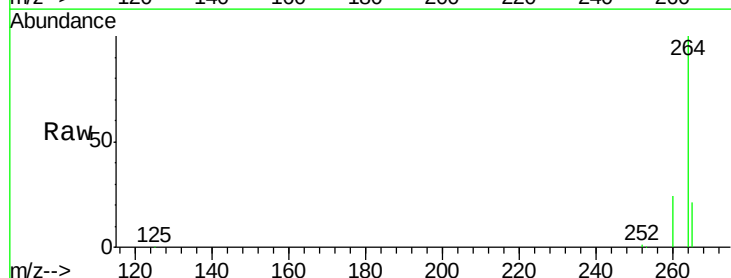
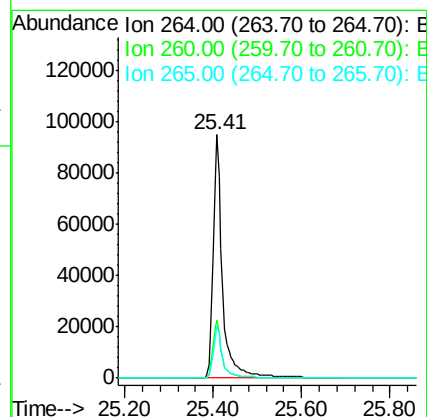
Tgt Ion: 264 Resp: 140642

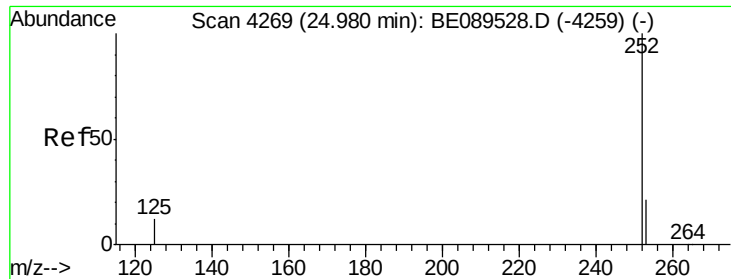
Ion Ratio Lower Upper

264 100

260 23.7 18.7 28.1

265 21.2 17.5 26.3

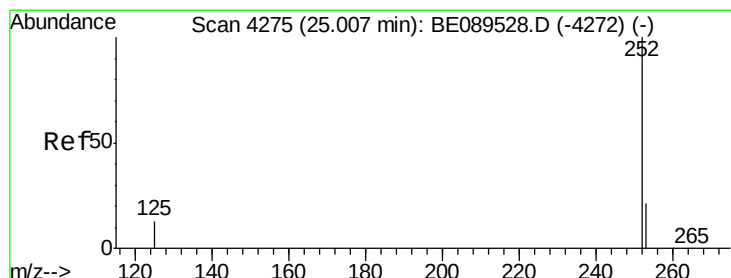
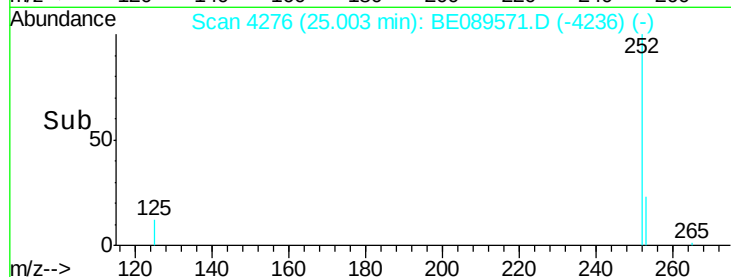
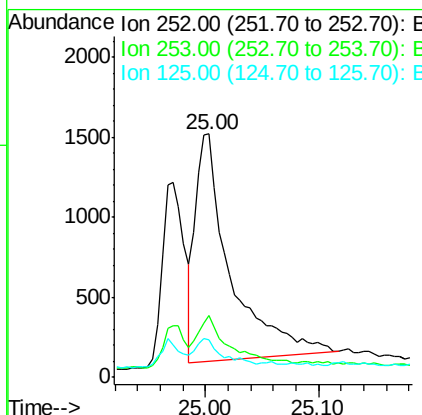
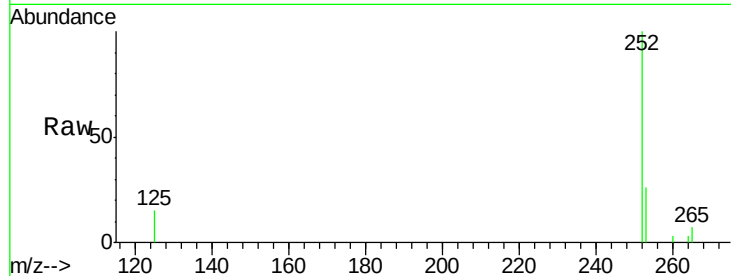




#23
Benzo(b)fluoranthene
Concen: 0.11 ng
RT: 25.00 min Scan# 4276
Delta R.T. 0.02 min
Lab File: BE089571.D
Acq: 7 Feb 2015 23:41

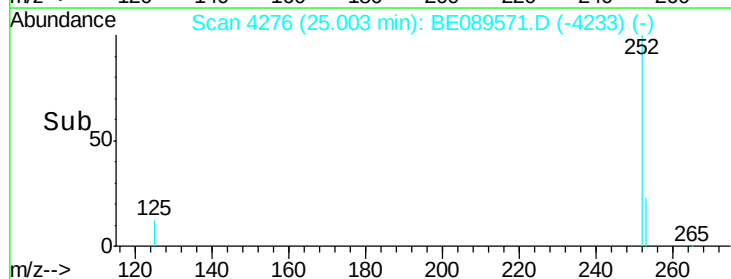
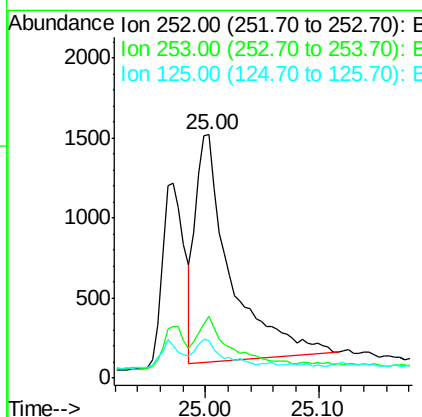
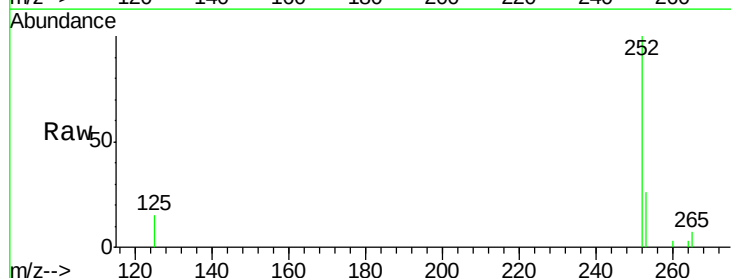
Instrument :
BNA_E
ClientSampleId :

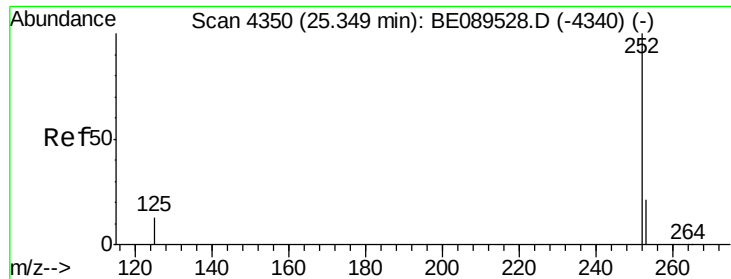
Tgt Ion:252 Resp: 3078
Ion Ratio Lower Upper
252 100
253 25.6 17.4 26.0
125 15.4 10.4 15.6



#24
Benzo(k)fluoranthene
Concen: 0.09 ng
RT: 25.00 min Scan# 4276
Delta R.T. -0.00 min
Lab File: BE089571.D
Acq: 7 Feb 2015 23:41

Tgt Ion:252 Resp: 3078
Ion Ratio Lower Upper
252 100
253 25.6 17.2 25.8
125 15.4 10.6 15.8





#25

Benzo(a)pyrene

Concen: 0.06 ng

RT: 25.34 min Scan# 4350

Delta R.T. -0.01 min

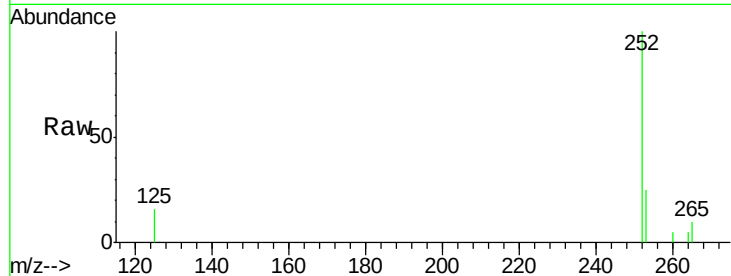
Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

Instrument :

BNA_E

ClientSampleId :



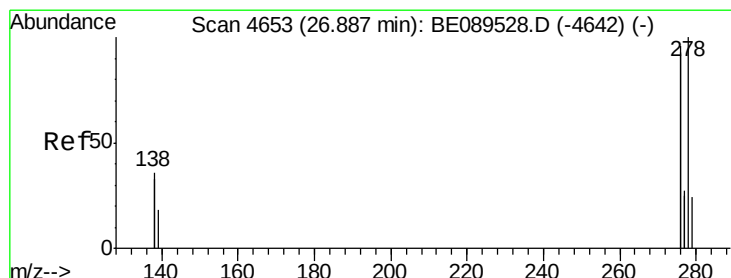
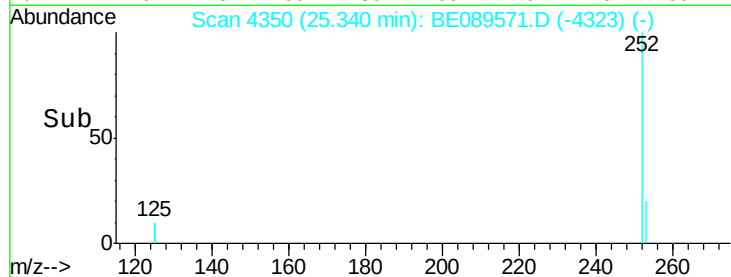
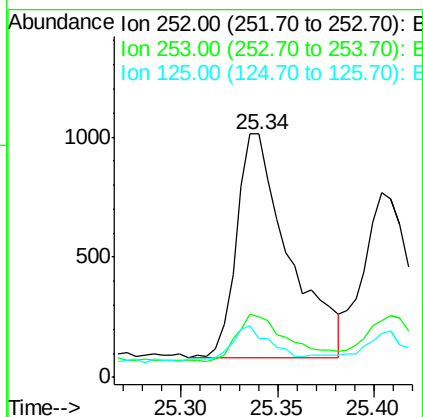
Tgt Ion: 252 Resp: 1753

Ion Ratio Lower Upper

252 100

253 24.7 17.8 26.6

125 16.1 11.4 17.2



#26

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 26.87 min Scan# 4651

Delta R.T. -0.02 min

Lab File: BE089571.D

Acq: 7 Feb 2015 23:41

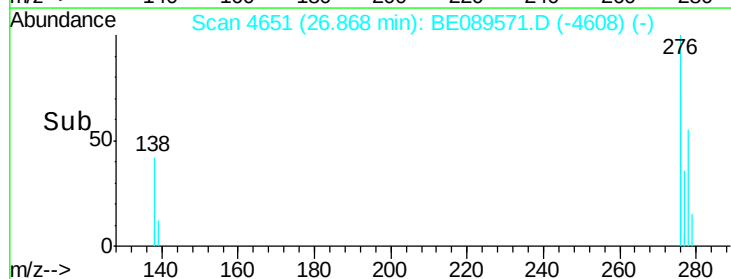
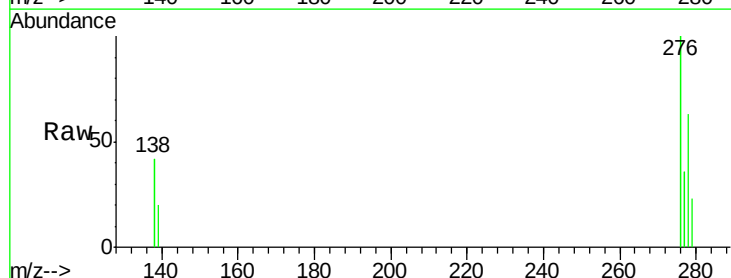
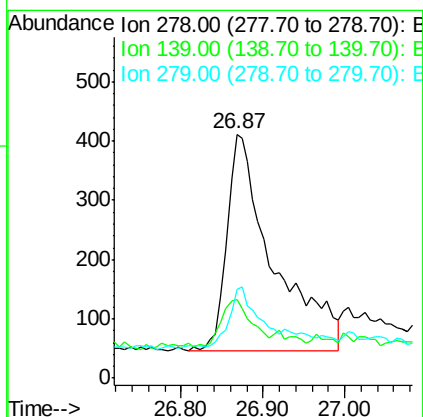
Tgt Ion: 278 Resp: 1421

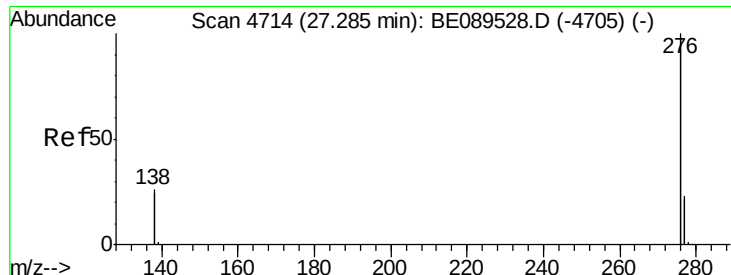
Ion Ratio Lower Upper

278 100

139 32.1 15.7 23.5#

279 36.7 19.5 29.3#

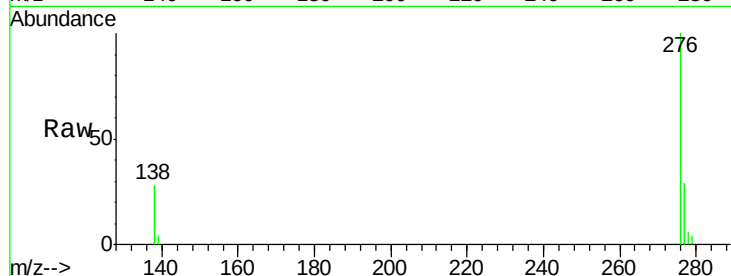




#27
 Benzo(g,h,i)perylene
 Concen: 0.07 ng
 RT: 27.27 min Scan# 4713
 Delta R.T. -0.01 min
 Lab File: BE089571.D
 Acq: 7 Feb 2015 23:41

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 9284
 Ion Ratio Lower Upper
 276 100
 277 29.0 18.6 27.8#
 138 28.4 20.9 31.3



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

