

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE010715\
 Data File : BE089344.D
 Acq On : 8 Jan 2015 00:19
 Operator : TP/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE010715

Quant Time: Jan 08 06:10:25 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 06:03:23 2015
 Response via : Initial Calibration

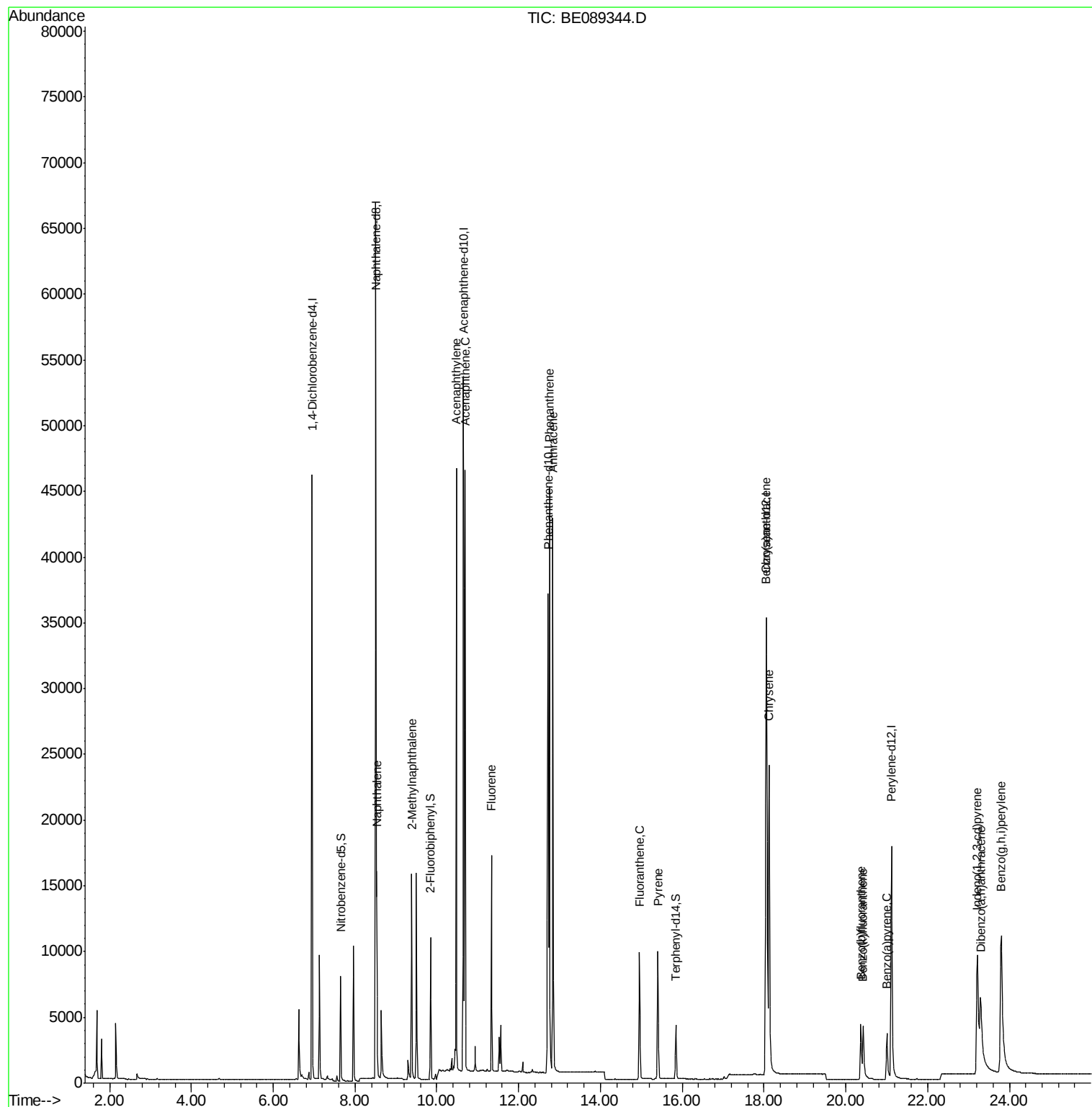
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	15048	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	57832	5.00	ng	0.00
6) Acenaphthene-d10	10.65	164	26898	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	40118	5.00	ng	0.00
15) Chrysene-d12	18.06	240	30491	5.00	ng	0.00
21) Perylene-d12	21.12	264	27041	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	7.65	82	4227	1.05	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	7623	1.04	ng	0.00
17) Terphenyl-d14	15.85	244	5441	1.01	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	8.53	128	13714	1.05	ng	100
5) 2-Methylnaphthalene	9.39	142	8545	1.05	ng	94
8) Acenaphthylene	10.47	152	48068	1.04	ng	99
9) Acenaphthene	10.69	154	7305	1.02	ng	96
10) Fluorene	11.34	166	8040	1.05	ng	99
12) Phenanthrene	12.75	178	43776	1.05	ng	99
13) Anthracene	12.84	178	42675	1.06	ng	99
14) Fluoranthene	14.96	202	9727	1.05	ng	99
16) Pyrene	15.40	202	10327	1.03	ng	99
18) Benzo(a)anthracene	18.05	228	31697	1.03	ng	99
19) Chrysene	18.12	228	32706	1.05	ng	100
20) Indeno(1,2,3-cd)pyrene	23.22	276	19211	0.64	ng	99
22) Benzo(b)fluoranthene	20.36	252	6228	1.05	ng	99
23) Benzo(k)fluoranthene	20.42	252	8148	1.09	ng	100
24) Benzo(a)pyrene	21.00	252	6024	1.03	ng	100
25) Dibenzo(a,h)anthracene	23.30	278	5544	1.04	ng	98
26) Benzo(g,h,i)perylene	23.80	276	27954	1.04	ng	99

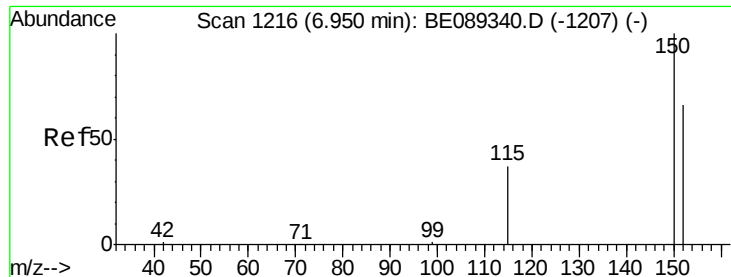
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Instrument :

BNA_E

ClientSampleId :

ICVBE010715

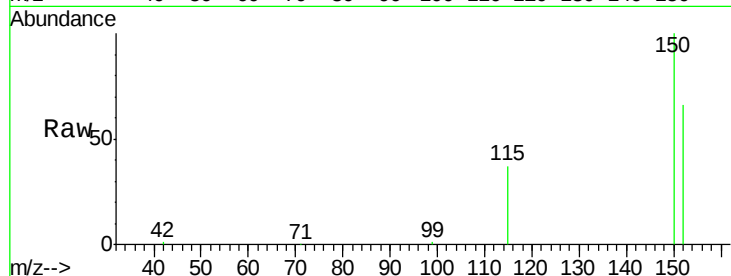
Tgt Ion:152 Resp: 15048

Ion Ratio Lower Upper

152 100

150 151.9 121.5 182.3

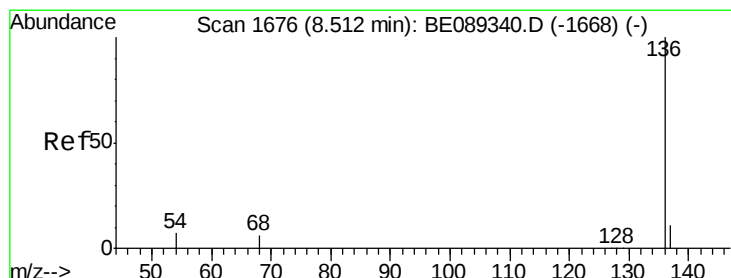
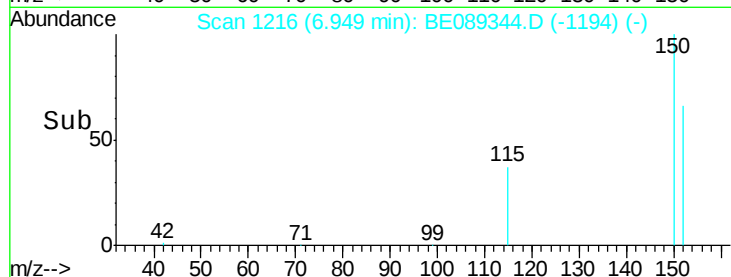
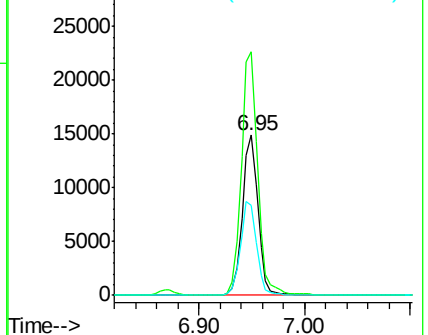
115 55.8 45.2 67.8



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: 8.51 min Scan# 1676

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Tgt Ion:136 Resp: 57832

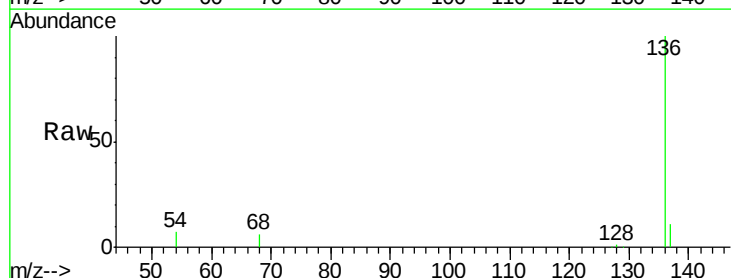
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 6.7 5.4 8.0

68 6.1 4.7 7.1

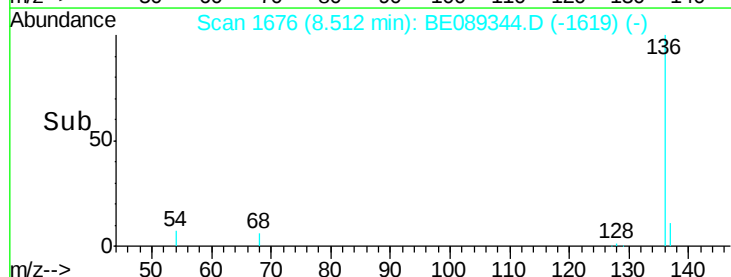
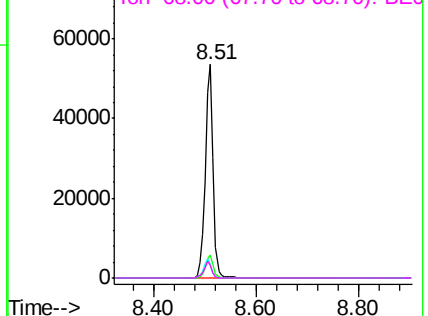


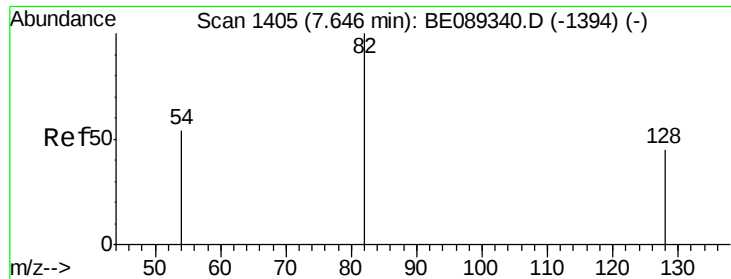
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#3

Nitrobenzene-d5

Concen: 1.05 ng

RT: 7.65 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Instrument :

BNA_E

ClientSampleId :

ICVBE010715

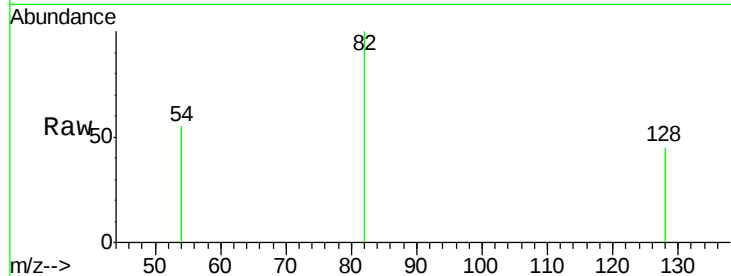
Tgt Ion: 82 Resp: 4227

Ion Ratio Lower Upper

82 100

128 45.0 36.5 54.7

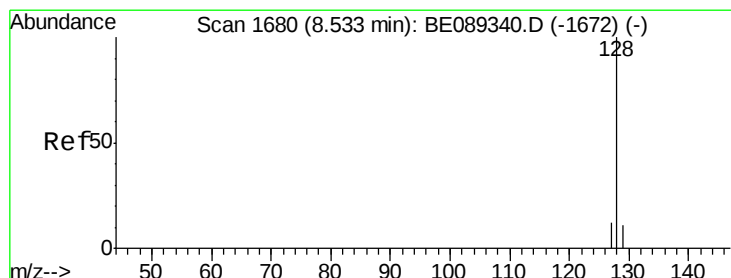
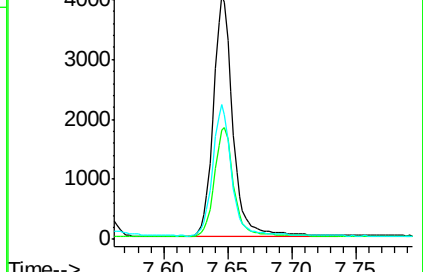
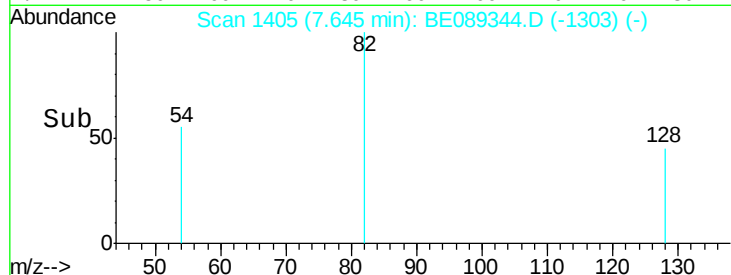
54 55.4 43.5 65.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 1.05 ng

RT: 8.53 min Scan# 1680

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

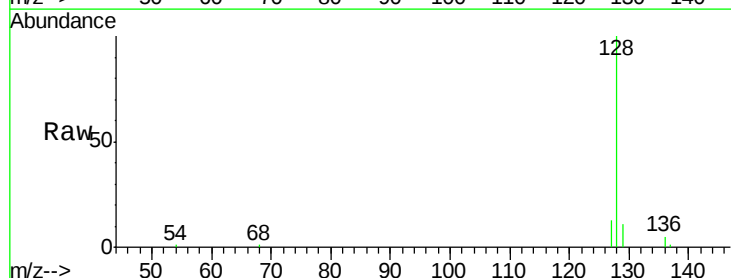
Tgt Ion: 128 Resp: 13714

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

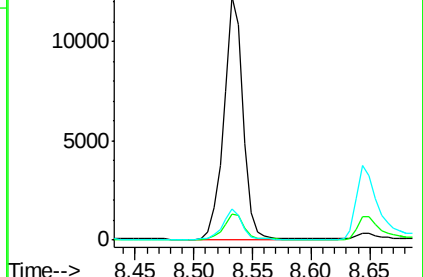
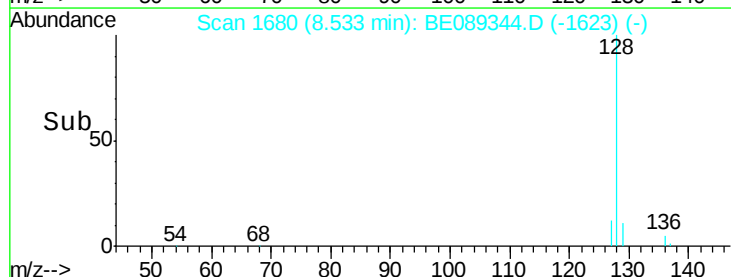
127 12.7 10.0 15.0

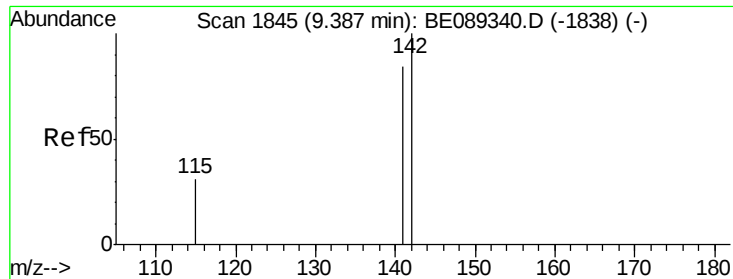


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 1.05 ng

RT: 9.39 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Instrument :

BNA_E

ClientSampleId :

ICVBE010715

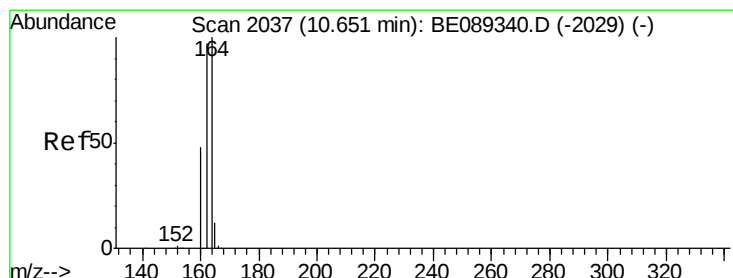
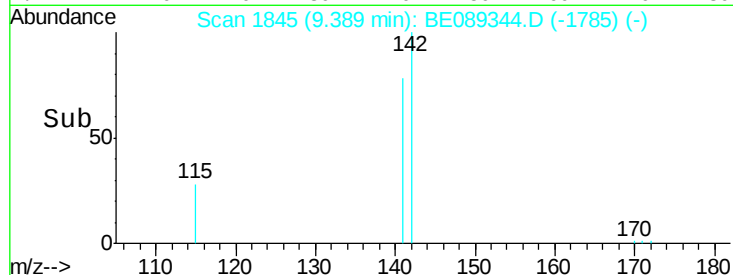
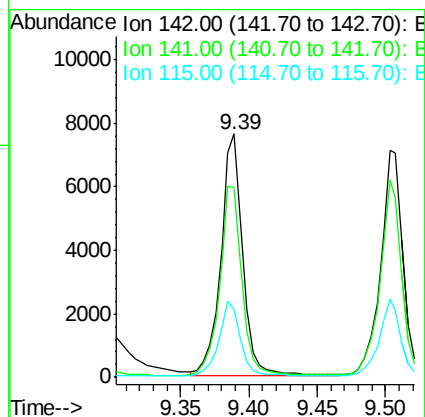
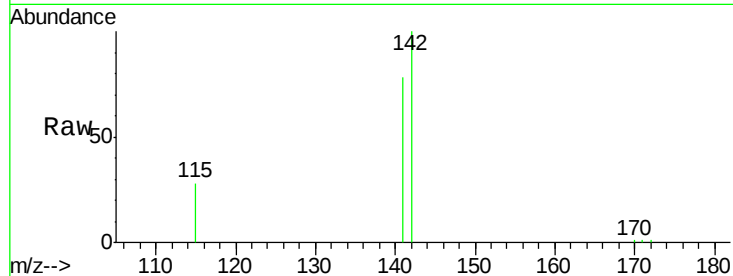
Tgt Ion:142 Resp: 8545

Ion Ratio Lower Upper

142 100

141 77.9 66.3 99.5

115 28.1 25.2 37.8



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.65 min Scan# 2036

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

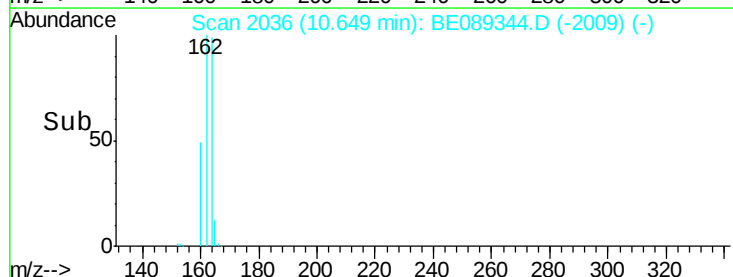
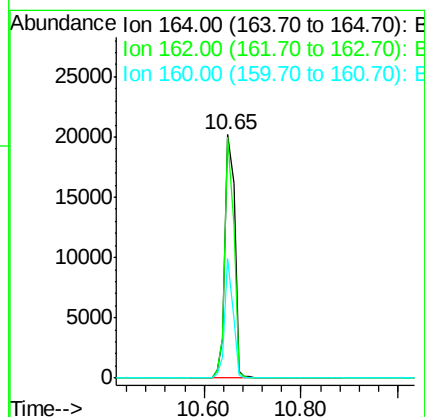
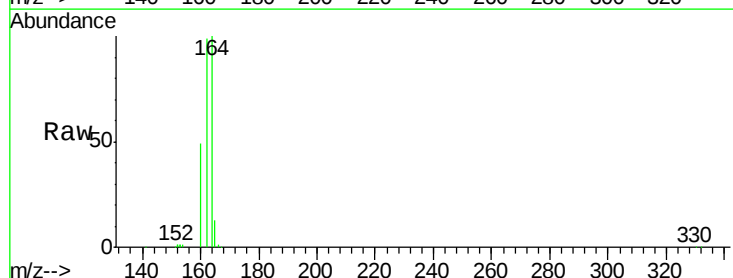
Tgt Ion:164 Resp: 26898

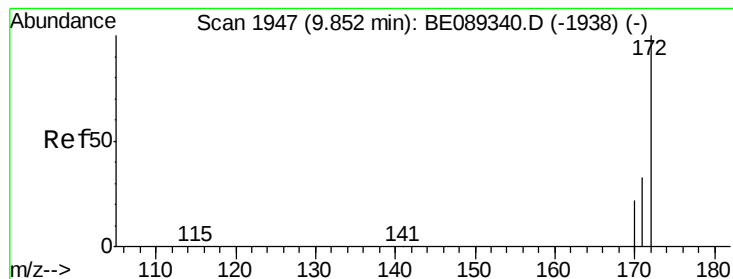
Ion Ratio Lower Upper

164 100

162 99.0 77.4 116.2

160 48.9 38.2 57.4





#7

2-Fluorobiphenyl

Concen: 1.04 ng

RT: 9.85 min Scan# 1947

Delta R.T. 0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Instrument :

BNA_E

ClientSampleId :

ICVBE010715

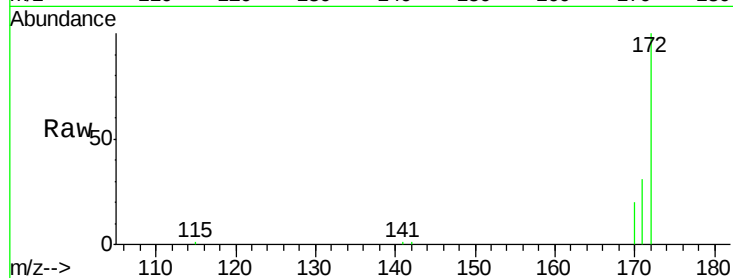
Tgt Ion:172 Resp: 7623

Ion Ratio Lower Upper

172 100

171 30.8 26.4 39.6

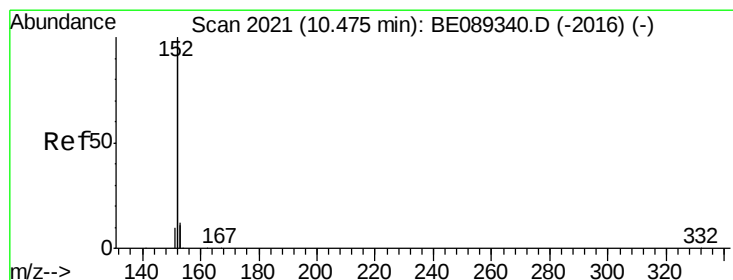
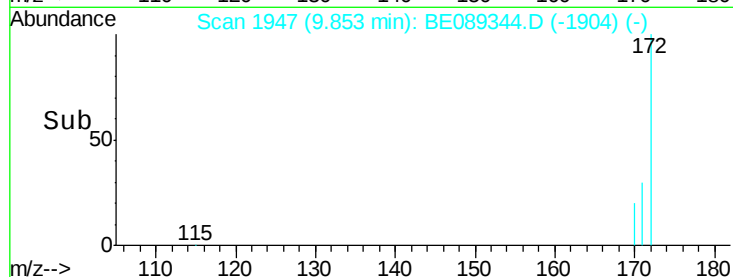
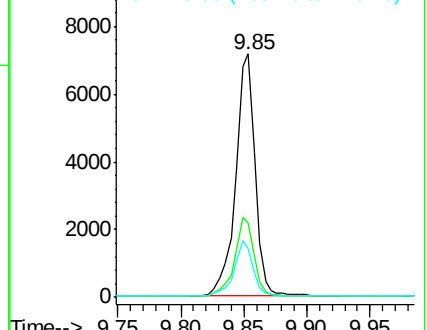
170 20.0 18.0 27.0



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



#8

Acenaphthylene

Concen: 1.04 ng

RT: 10.47 min Scan# 2020

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

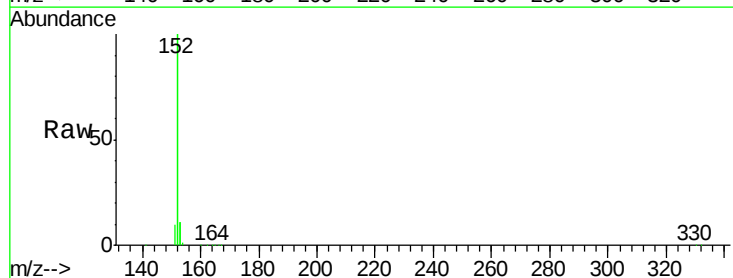
Tgt Ion:152 Resp: 48068

Ion Ratio Lower Upper

152 100

151 5.2 4.1 6.1

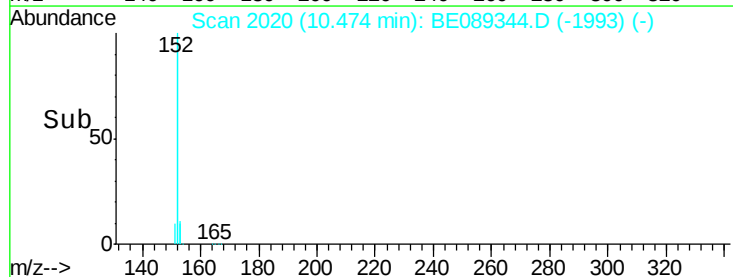
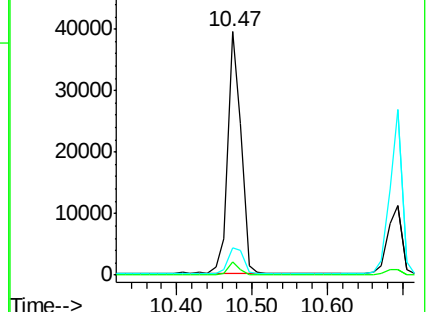
153 11.4 9.8 14.6

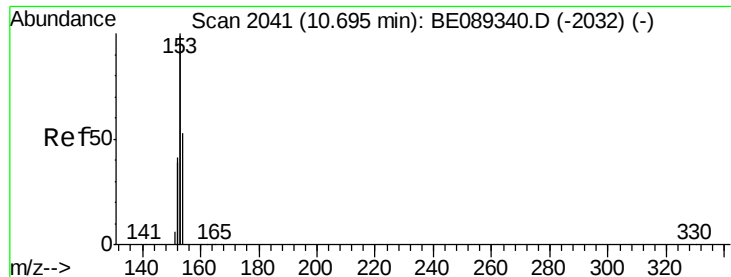


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 1.02 ng

RT: 10.69 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Instrument :

BNA_E

ClientSampleId :

ICVBE010715

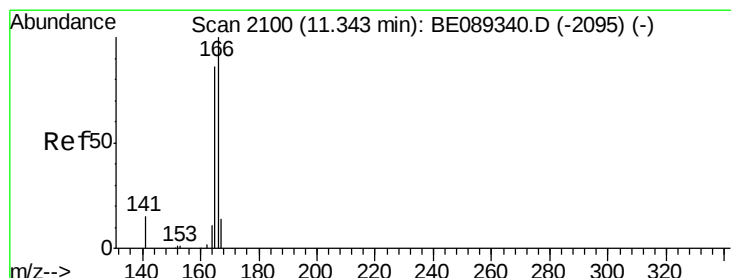
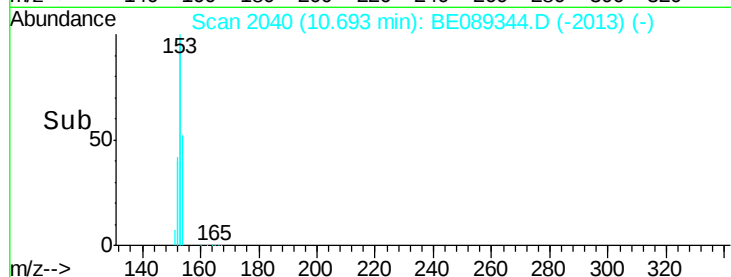
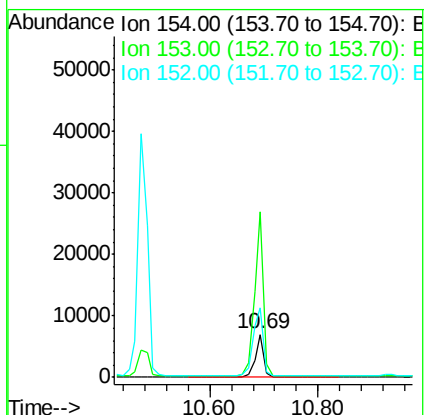
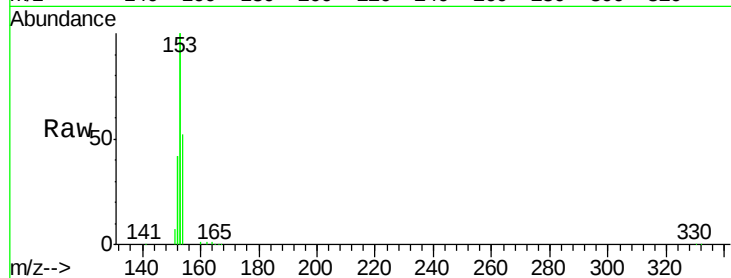
Tgt Ion:154 Resp: 7305

Ion Ratio Lower Upper

154 100

153 383.9 300.6 450.8

152 160.5 123.3 184.9



#10

Fluorene

Concen: 1.05 ng

RT: 11.34 min Scan# 2099

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

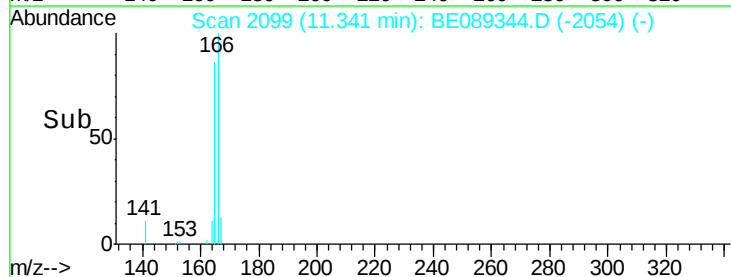
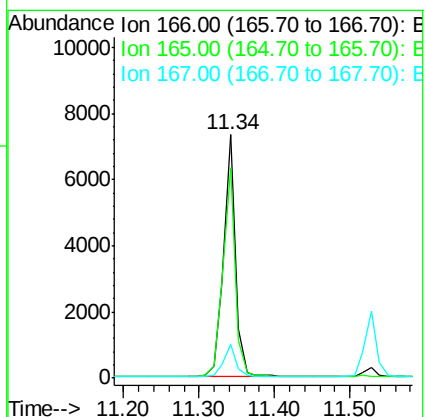
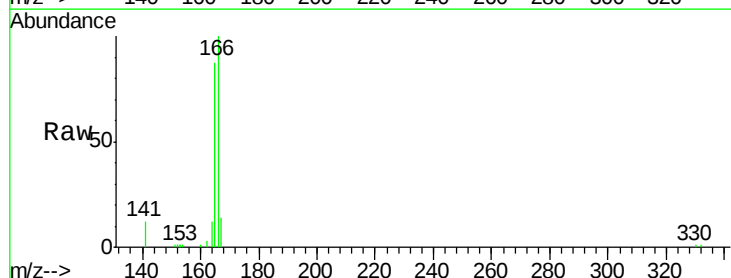
Tgt Ion:166 Resp: 8040

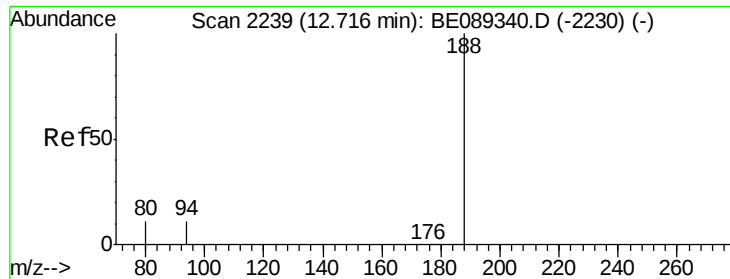
Ion Ratio Lower Upper

166 100

165 88.8 72.1 108.1

167 13.4 11.0 16.4

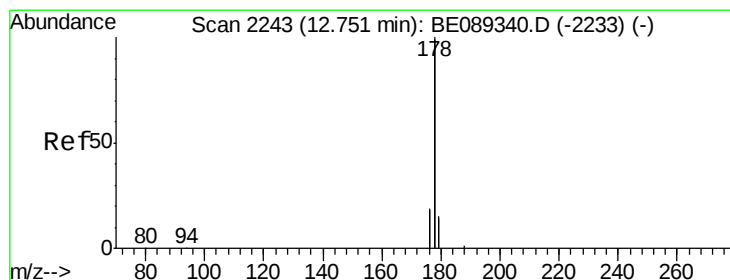
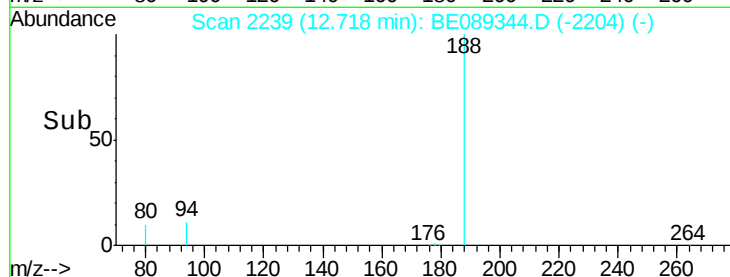
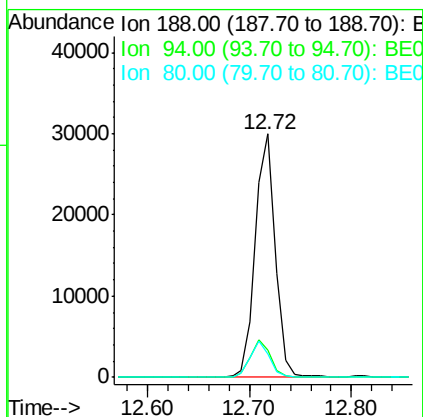
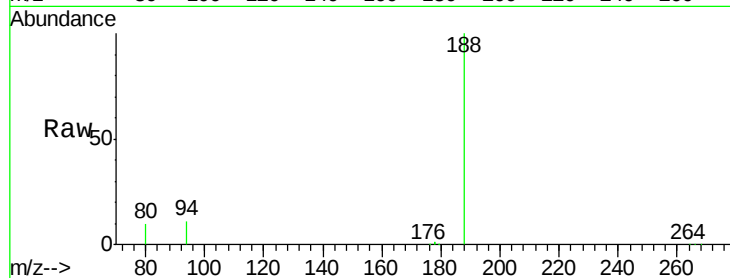




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.72 min Scan# 2239
Delta R.T. 0.00 min
Lab File: BE089344.D
Acq: 8 Jan 2015 00:19

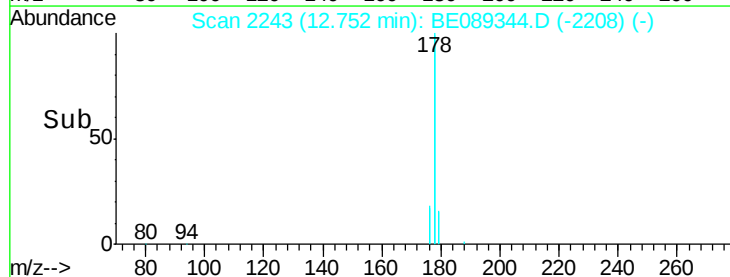
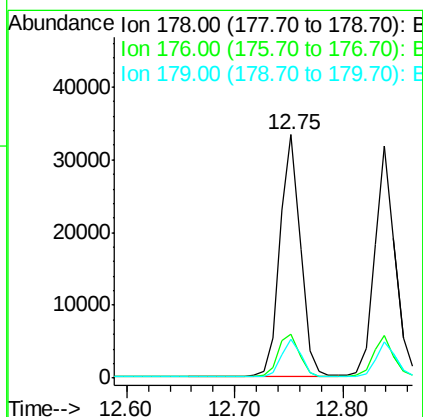
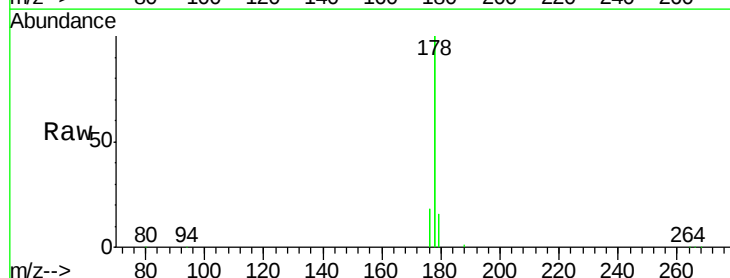
Instrument :
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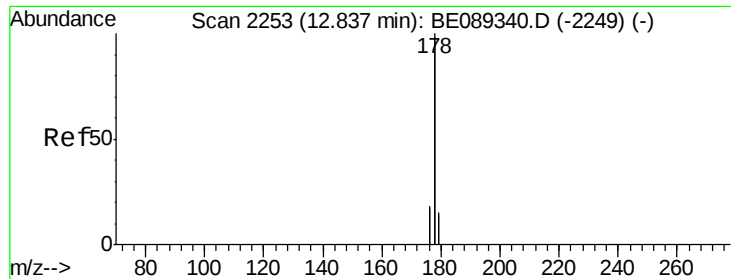
Tgt Ion:188 Resp: 40118
Ion Ratio Lower Upper
188 100
94 11.2 11.0 12.2
80 9.7 10.1 11.1#



#12
Phenanthrene
Concen: 1.05 ng
RT: 12.75 min Scan# 2243
Delta R.T. 0.00 min
Lab File: BE089344.D
Acq: 8 Jan 2015 00:19

Tgt Ion:178 Resp: 43776
Ion Ratio Lower Upper
178 100
176 18.2 15.1 22.7
179 15.8 12.2 18.2





#13

Anthracene

Concen: 1.06 ng

RT: 12.84 min Scan# 2253

Delta R.T. 0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Instrument :

BNA_E

ClientSampleId :

ICVBE010715

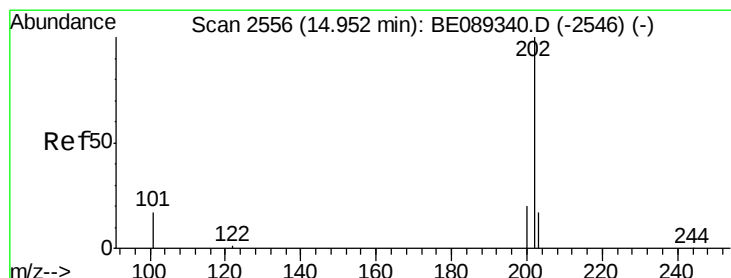
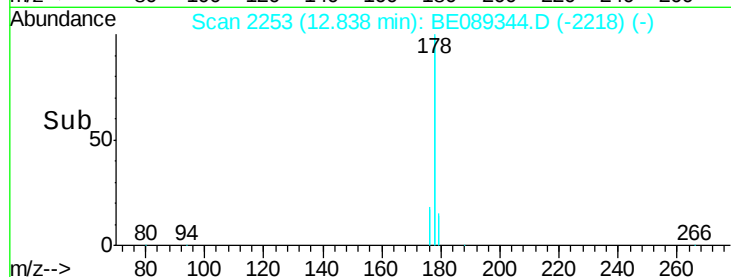
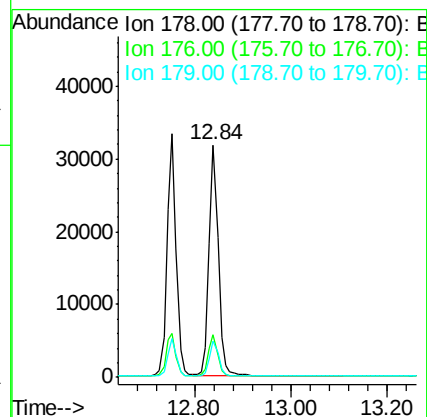
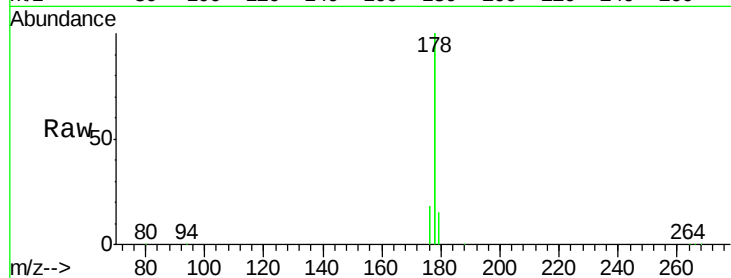
Tgt Ion:178 Resp: 42675

Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

179 15.4 12.0 18.0



#14

Fluoranthene

Concen: 1.05 ng

RT: 14.96 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

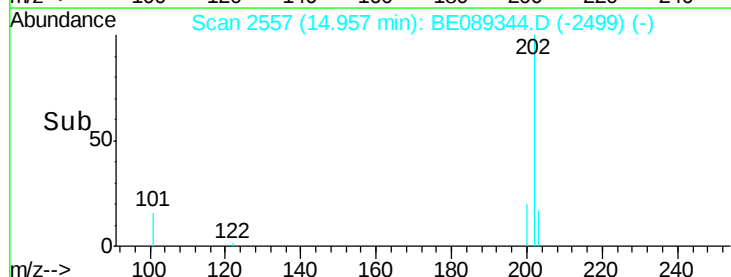
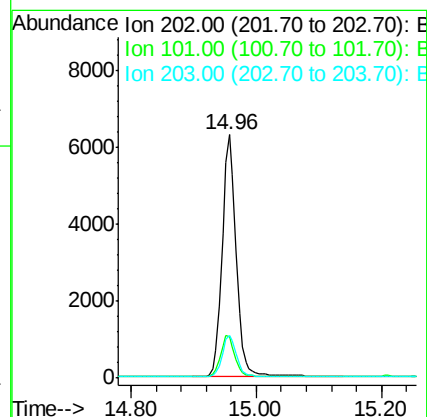
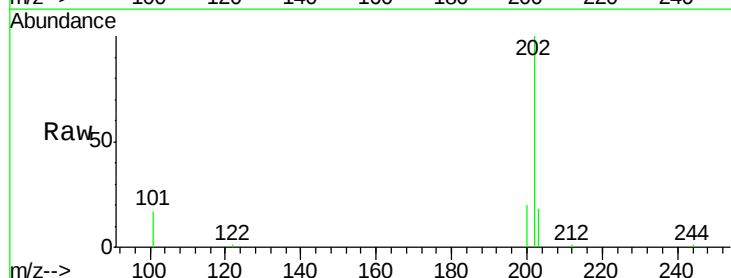
Tgt Ion:202 Resp: 9727

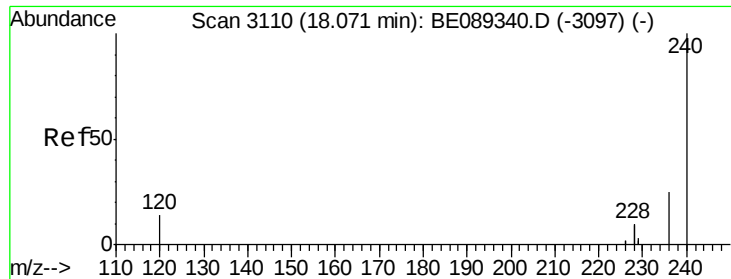
Ion Ratio Lower Upper

202 100

101 17.1 0.0 37.9

203 17.7 0.0 37.5

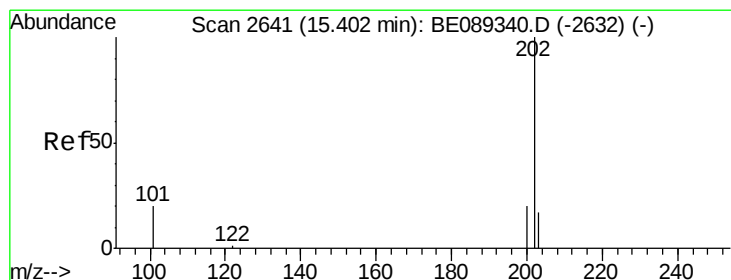
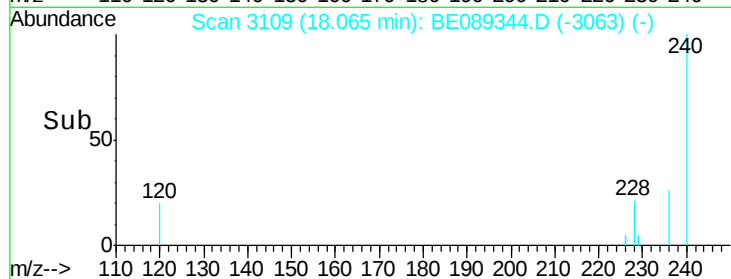
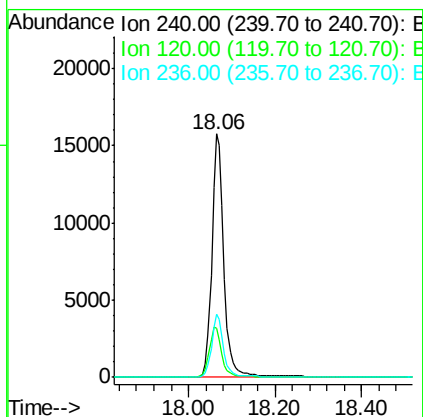
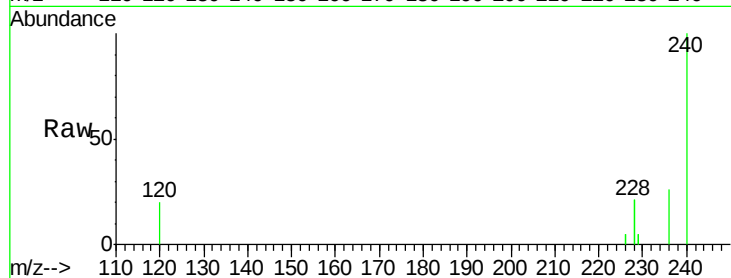




#15
Chrysene-d12
Concen: 5.00 ng
RT: 18.06 min Scan# 3109
Delta R.T. -0.01 min
Lab File: BE089344.D
Acq: 8 Jan 2015 00:19

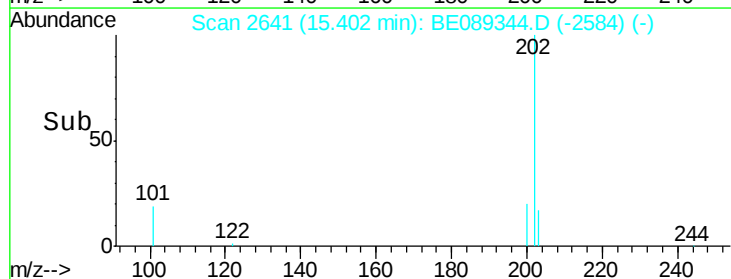
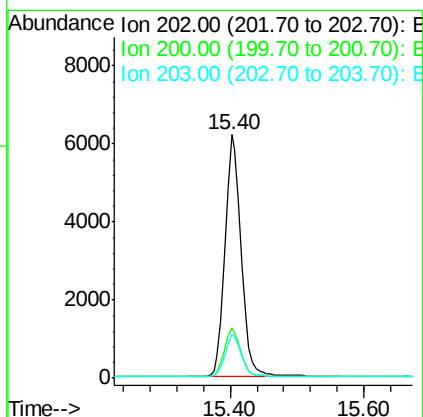
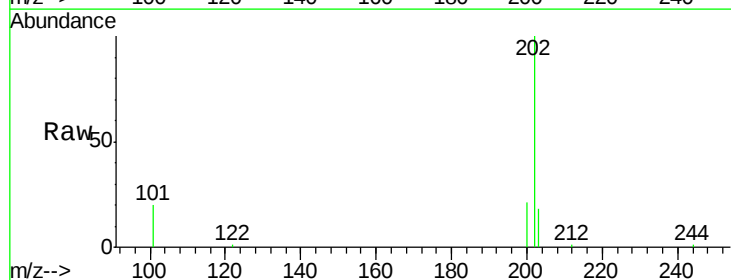
Instrument :
BNA_E
ClientSampleId :
ICVBE010715

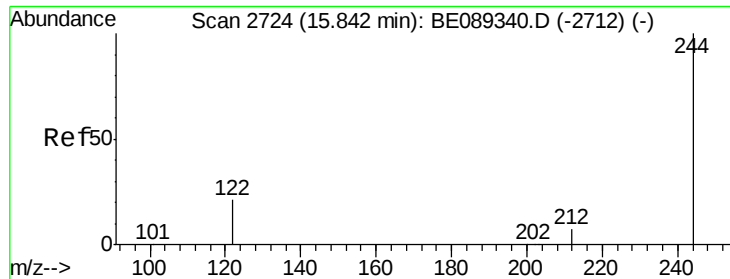
Tgt Ion:240 Resp: 30491
Ion Ratio Lower Upper
240 100
120 20.3 11.8 17.6#
236 25.7 20.0 30.0



#16
Pyrene
Concen: 1.03 ng
RT: 15.40 min Scan# 2641
Delta R.T. -0.00 min
Lab File: BE089344.D
Acq: 8 Jan 2015 00:19

Tgt Ion:202 Resp: 10327
Ion Ratio Lower Upper
202 100
200 20.7 16.8 25.2
203 17.8 14.0 21.0

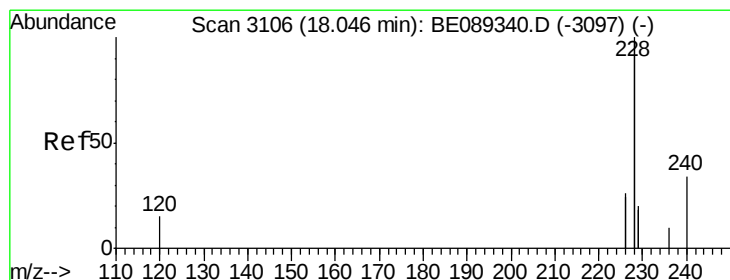
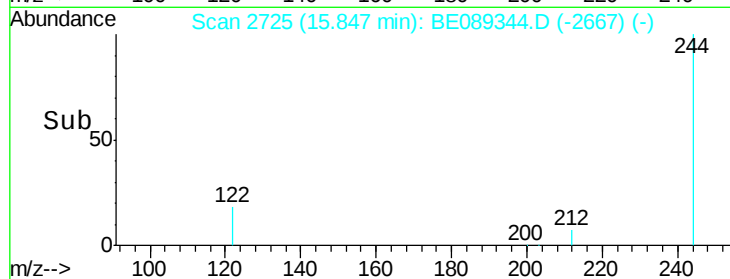
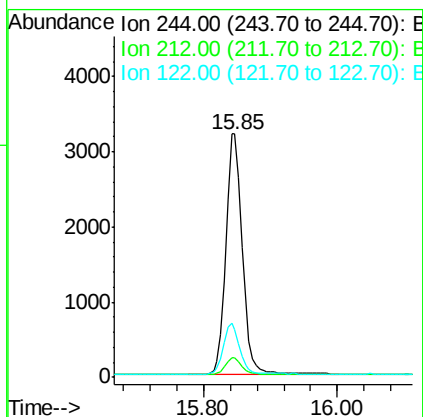
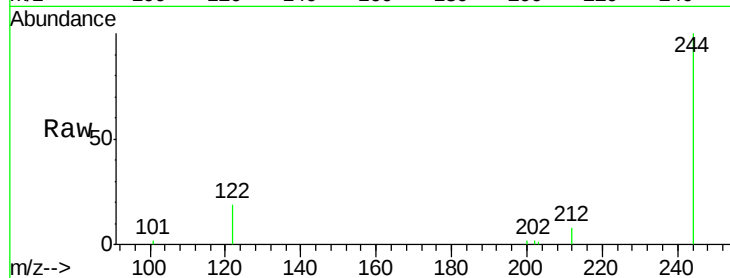




#17
 Terphenyl-d14
 Concen: 1.01 ng
 RT: 15.85 min Scan# 2725
 Delta R.T. 0.00 min
 Lab File: BE089344.D
 Acq: 8 Jan 2015 00:19

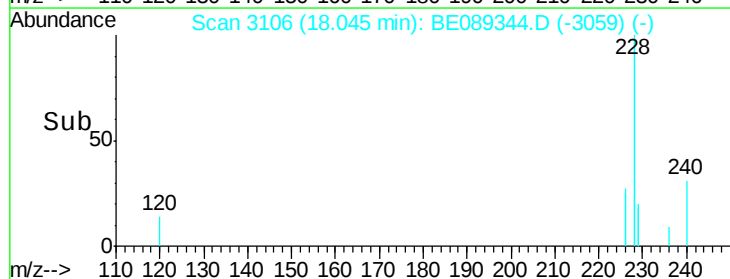
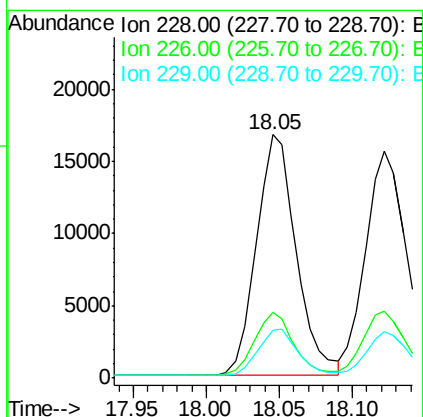
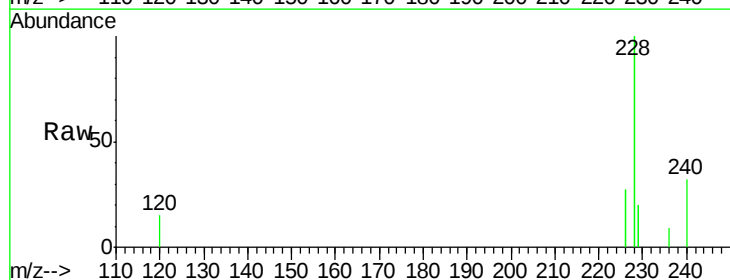
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE010715

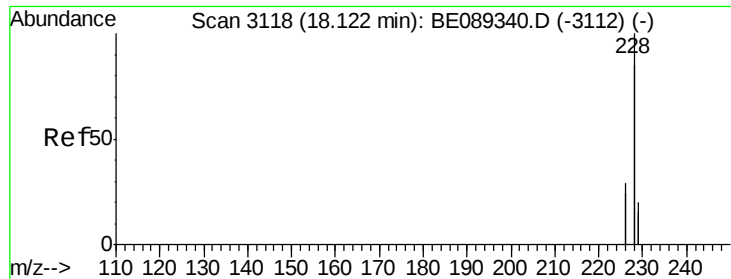
Tgt Ion: 244 Resp: 5441
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.3 9.5
 122 19.5 17.7 26.5



#18
 Benzo(a)anthracene
 Concen: 1.03 ng
 RT: 18.05 min Scan# 3106
 Delta R.T. -0.00 min
 Lab File: BE089344.D
 Acq: 8 Jan 2015 00:19

Tgt Ion: 228 Resp: 31697
 Ion Ratio Lower Upper
 228 100
 226 26.8 21.0 31.6
 229 19.8 16.0 24.0





#19

Chrysene

Concen: 1.05 ng

RT: 18.12 min Scan# 3118

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Instrument :

BNA_E

ClientSampleId :

ICVBE010715

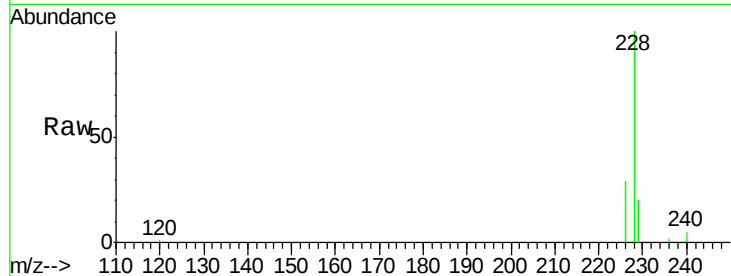
Tgt Ion:228 Resp: 32706

Ion Ratio Lower Upper

228 100

226 29.5 23.5 35.3

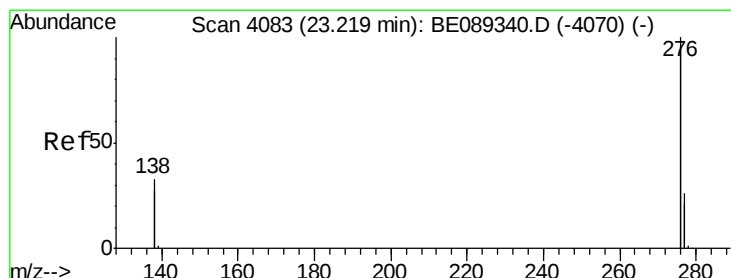
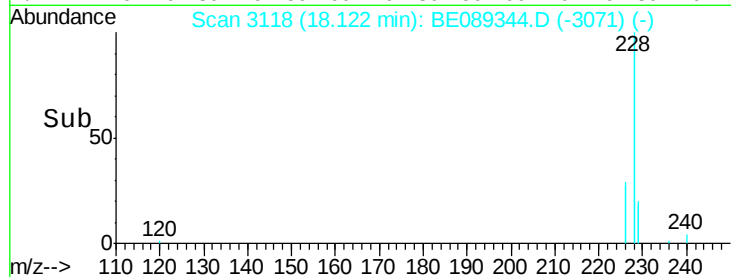
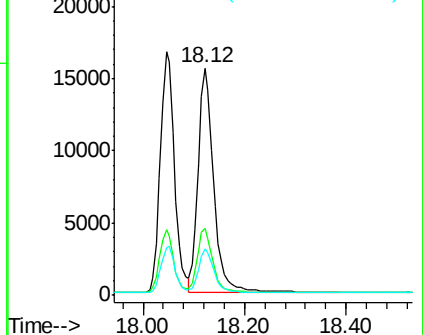
229 20.4 16.1 24.1



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



#20

Indeno(1,2,3-cd)pyrene

Concen: 0.64 ng

RT: 23.22 min Scan# 4083

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

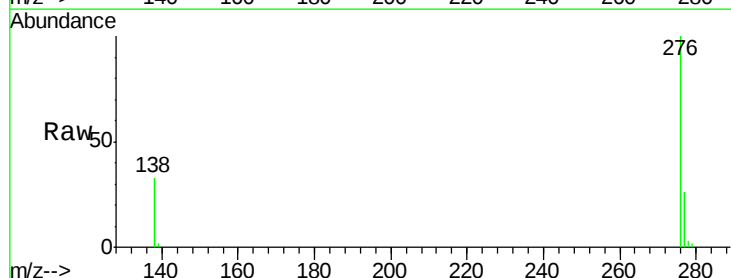
Tgt Ion:276 Resp: 19211

Ion Ratio Lower Upper

276 100

138 29.9 23.8 35.8

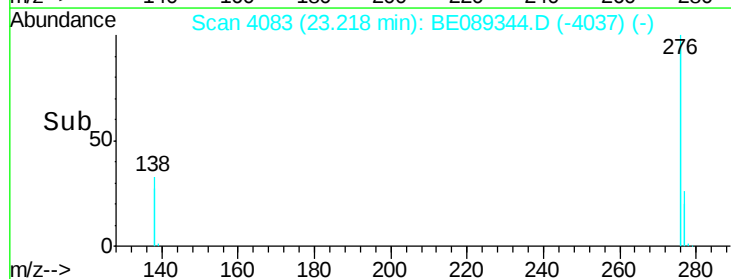
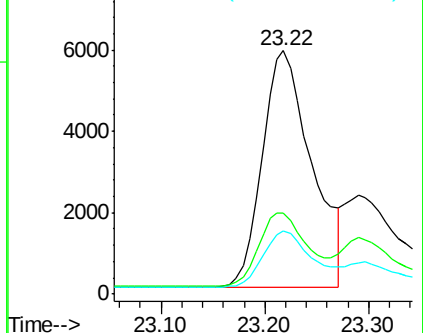
277 23.8 18.2 27.4

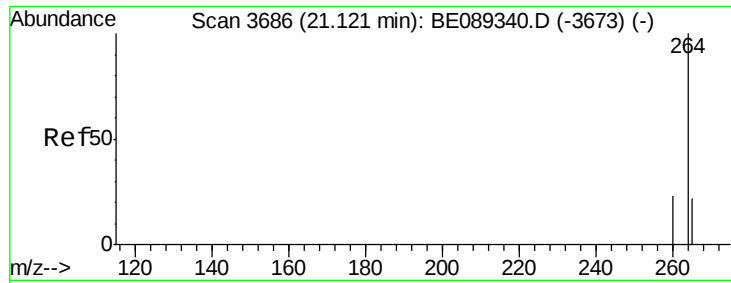


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

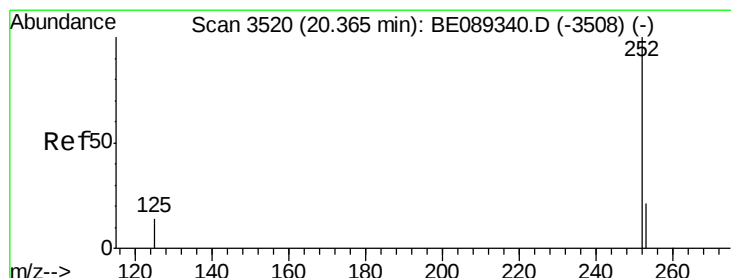
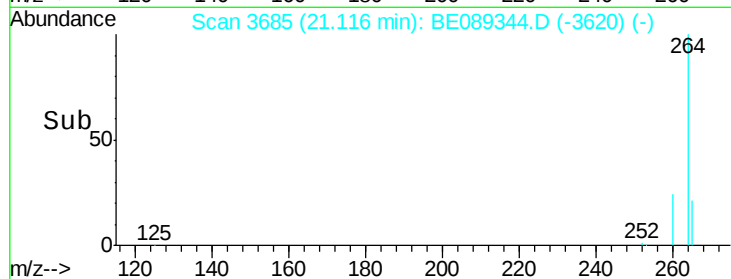
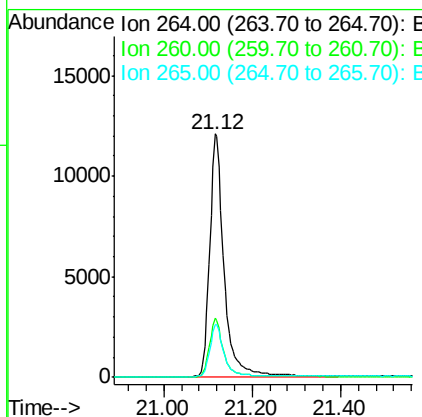
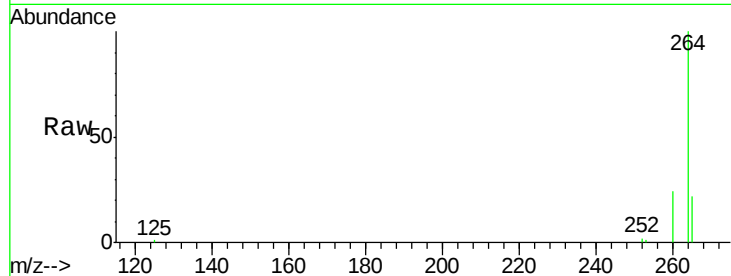




#21
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.12 min Scan# 3685
 Delta R.T. -0.01 min
 Lab File: BE089344.D
 Acq: 8 Jan 2015 00:19

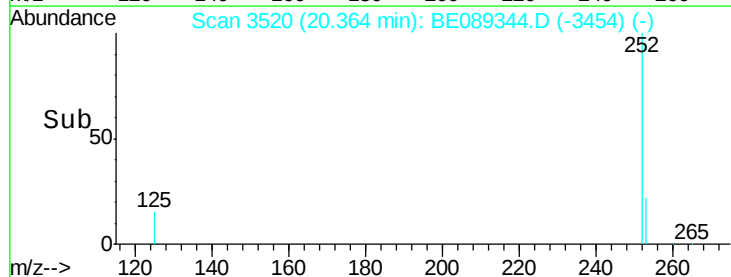
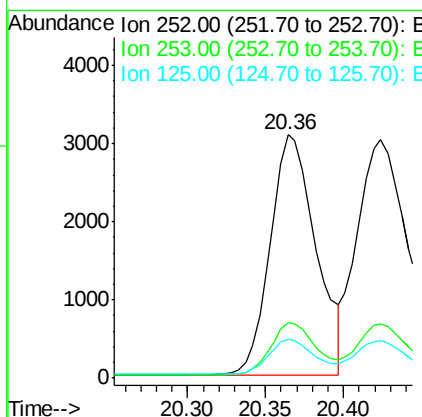
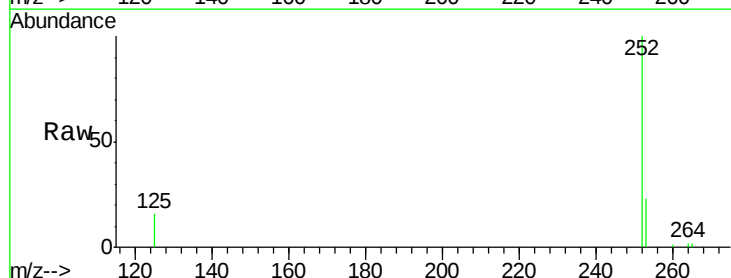
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE010715

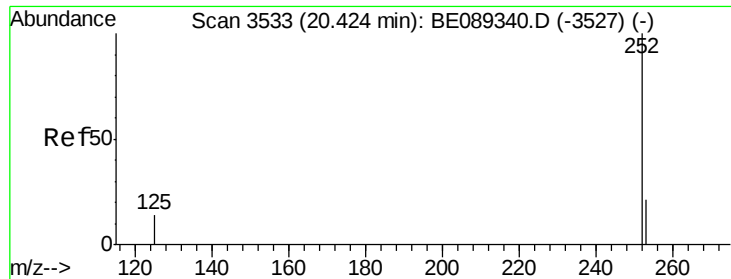
Tgt Ion: 264 Resp: 27041
 Ion Ratio Lower Upper
 264 100
 260 24.2 18.9 28.3
 265 21.6 17.4 26.2



#22
 Benzo(b)fluoranthene
 Concen: 1.05 ng
 RT: 20.36 min Scan# 3520
 Delta R.T. -0.00 min
 Lab File: BE089344.D
 Acq: 8 Jan 2015 00:19

Tgt Ion: 252 Resp: 6228
 Ion Ratio Lower Upper
 252 100
 253 22.9 17.8 26.6
 125 15.9 12.6 18.8





#23

Benzo(k)fluoranthene

Concen: 1.09 ng

RT: 20.42 min Scan# 3533

Delta R.T. -0.00 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

Instrument :

BNA_E

ClientSampleId :

ICVBE010715

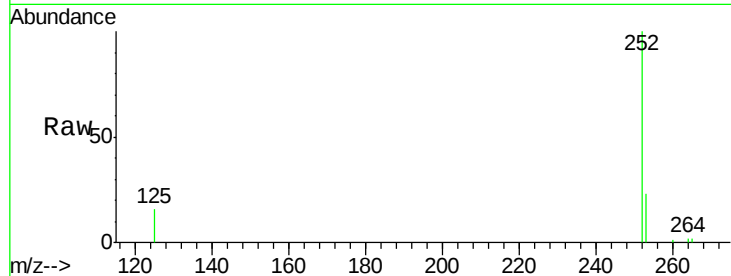
Tgt Ion:252 Resp: 8148

Ion Ratio Lower Upper

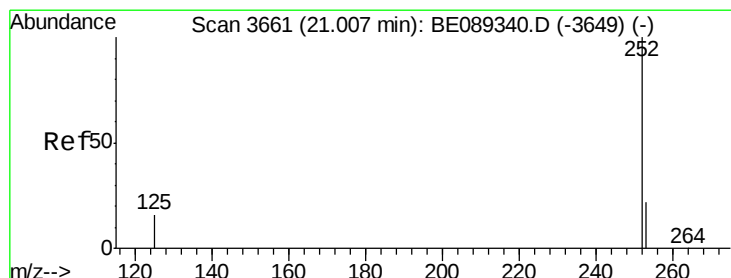
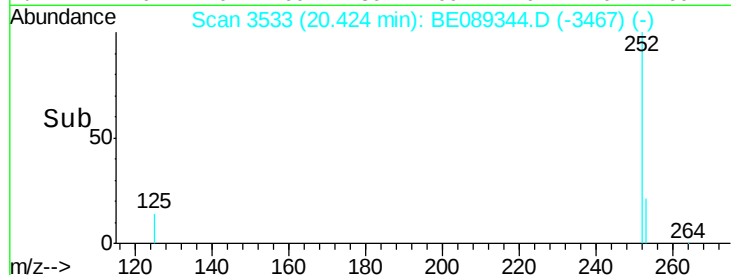
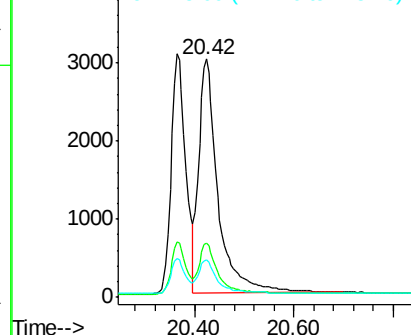
252 100

253 22.5 18.0 27.0

125 15.6 12.4 18.6



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



#24

Benzo(a)pyrene

Concen: 1.03 ng

RT: 21.00 min Scan# 3660

Delta R.T. -0.01 min

Lab File: BE089344.D

Acq: 8 Jan 2015 00:19

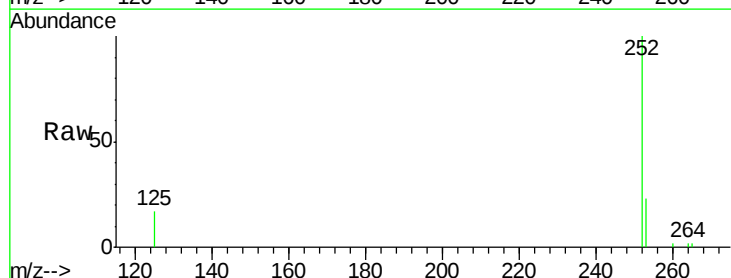
Tgt Ion:252 Resp: 6024

Ion Ratio Lower Upper

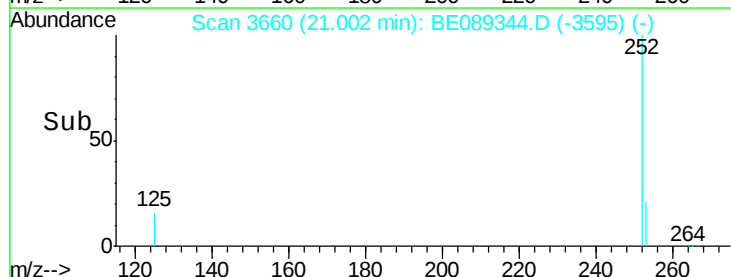
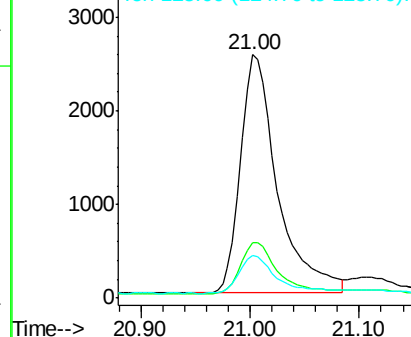
252 100

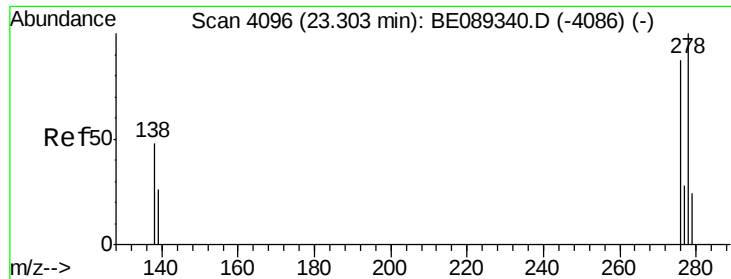
253 22.8 18.3 27.5

125 17.4 13.8 20.8



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



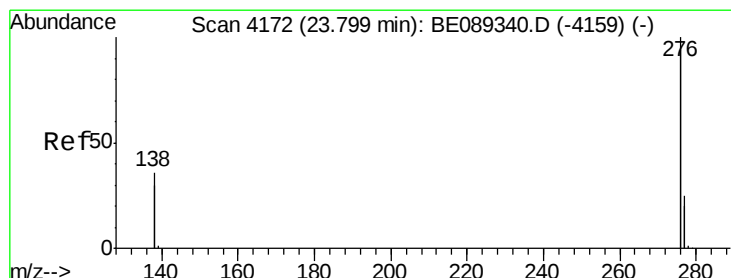
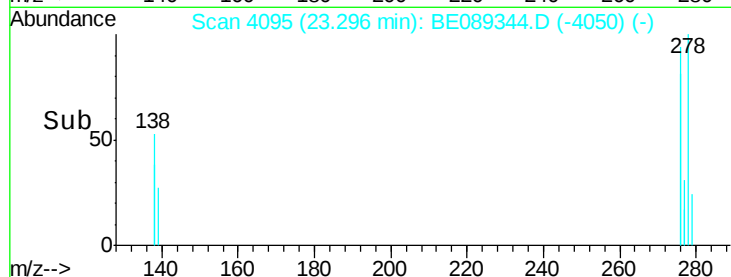
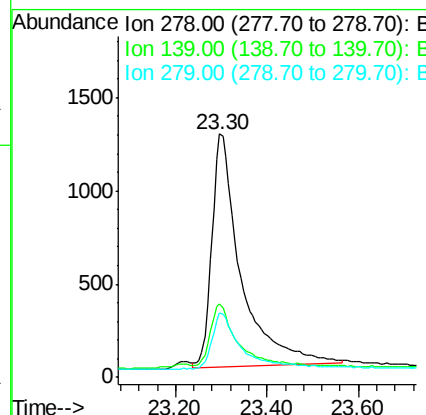
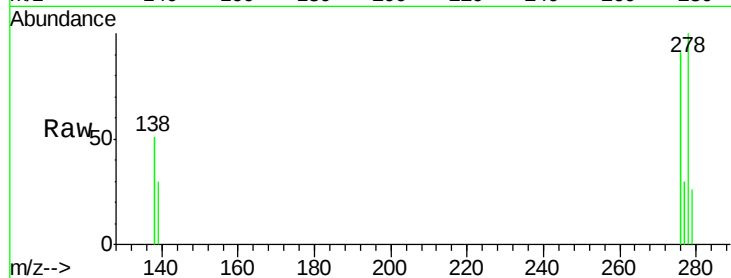


#25
Dibenzo(a,h)anthracene
Concen: 1.04 ng
RT: 23.30 min Scan# 4095
Delta R.T. -0.01 min
Lab File: BE089344.D
Acq: 8 Jan 2015 00:19

Instrument :
BNA_E
ClientSampleId :
ICVBE010715

Tgt Ion: 278 Resp: 5544

Ion	Ratio	Lower	Upper
278	100		
139	30.2	22.9	34.3
279	26.4	20.8	31.2



#26
Benzo(g,h,i)perylene
Concen: 1.04 ng
RT: 23.80 min Scan# 4172
Delta R.T. -0.00 min
Lab File: BE089344.D
Acq: 8 Jan 2015 00:19

Tgt Ion: 276 Resp: 27954

Ion	Ratio	Lower	Upper
276	100		
277	25.3	20.0	30.0
138	36.4	28.5	42.7

