

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020515\
 Data File : BE089521.D
 Acq On : 6 Feb 2015 4:10
 Operator : TP/IZ
 Sample : G1210-11
 Misc : 4 TIME INT STD
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EB-2015-02-02

Quant Time: Feb 06 05:18:25 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE020515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 06 03:21:38 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.49	152	128523	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	558318	5.00	ng	0.00
6) Acenaphthene-d10	16.59	164	263291	5.00	ng	0.00
11) Phenanthrene-d10	19.91	188	510909	5.00	ng	0.00
16) Chrysene-d12	23.77	240	543124	5.00	ng	0.00
22) Perylene-d12	25.46	264	523618	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.76	82	83218	1.95	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	158205	1.91	ng	0.00
18) Terphenyl-d14	22.41	244	209157	2.21	ng	0.00

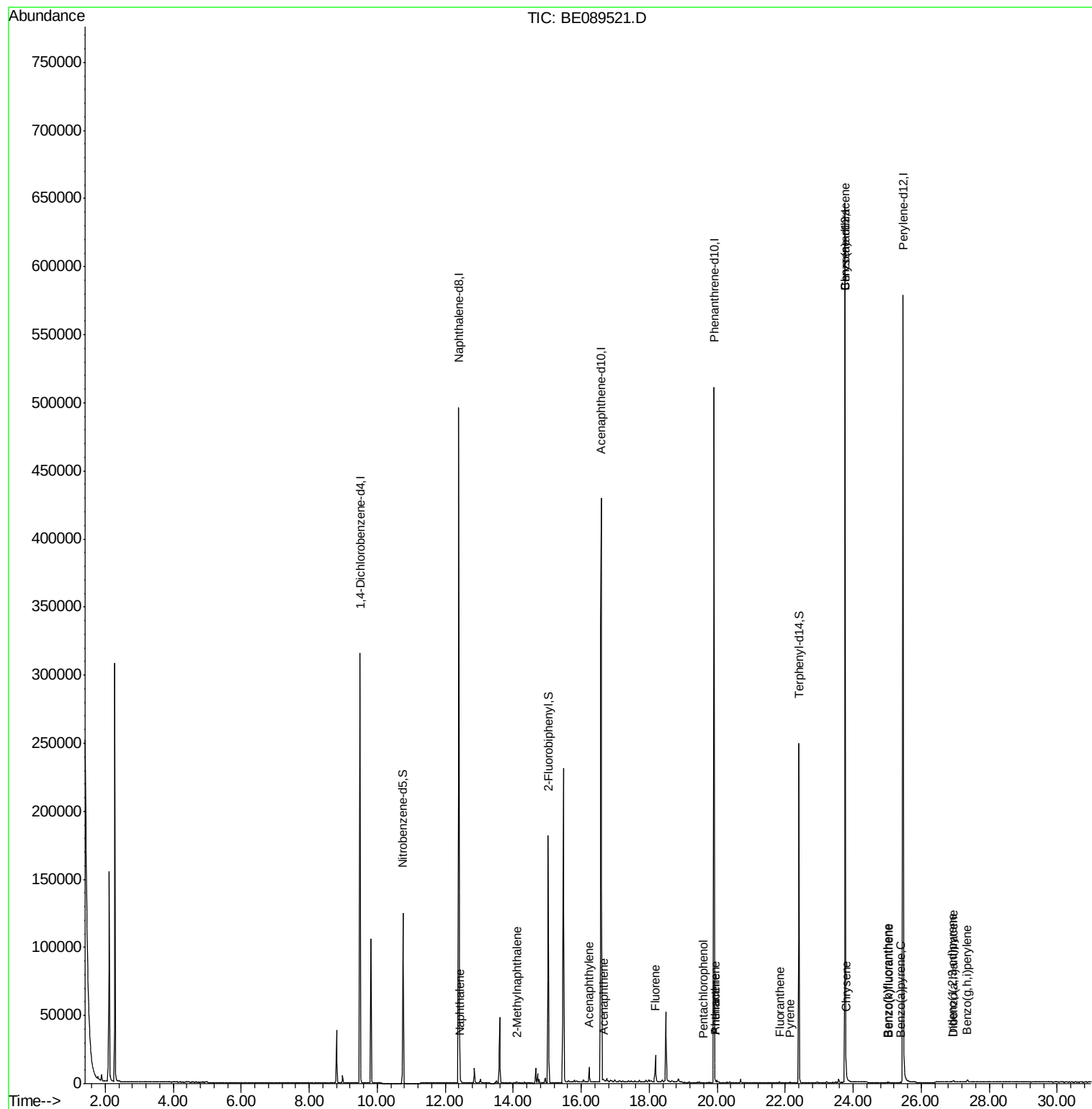
Target Compounds						Qvalue
4) Naphthalene	12.45	128	1056	0.01	ng	# 88
5) 2-Methylnaphthalene	14.10	142	342	0.00	ng	# 61
8) Acenaphthylene	16.23	152	1826	0.00	ng	# 37
9) Acenaphthene	16.65	154	283	0.00	ng	# 54
10) Fluorene	18.18	166	24397	0.25	ng	# 26
12) Pentachlorophenol	19.57	266	14	0.00	ng	# 63
13) Phenanthrene	19.94	178	1541	0.01	ng	98
14) Anthracene	19.94	178	1541	0.07	ng	99
15) Fluoranthene	21.83	202	763	0.06	ng	# 85
17) Pyrene	22.15	202	743	0.00	ng	98
19) Benzo(a)anthracene	23.76	228	7968	0.05	ng	# 74
20) Chrysene	23.79	228	2567	0.02	ng	# 87
21) Indeno(1,2,3-cd)pyrene	26.91	276	2166	0.07	ng	# 86
23) Benzo(b)fluoranthene	25.01	252	534	0.11	ng	# 43
24) Benzo(k)fluoranthene	25.04	252	607	0.00	ng	# 40
25) Benzo(a)pyrene	25.39	252	413	0.10	ng	# 12
26) Dibenzo(a,h)anthracene	26.95	278	478	0.07	ng	# 34
27) Benzo(g,h,i)perylene	27.35	276	3212	0.04	ng	# 64

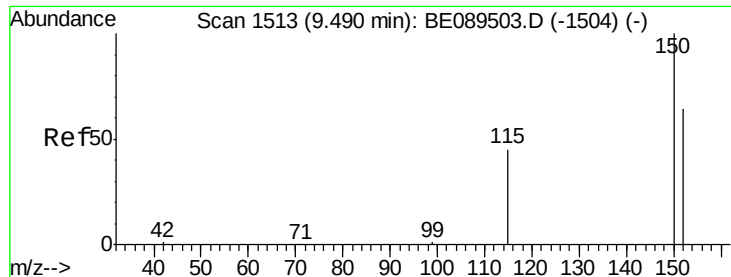
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

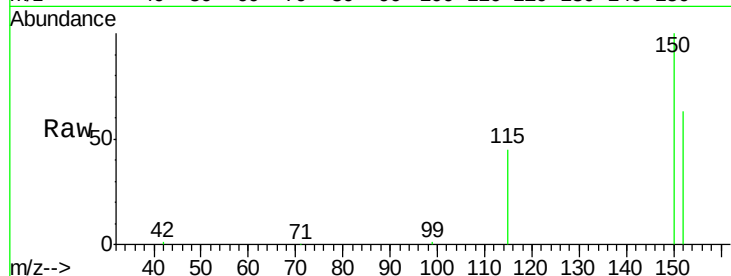
Tgt Ion:152 Resp: 128523

Ion Ratio Lower Upper

152 100

150 157.6 125.0 187.6

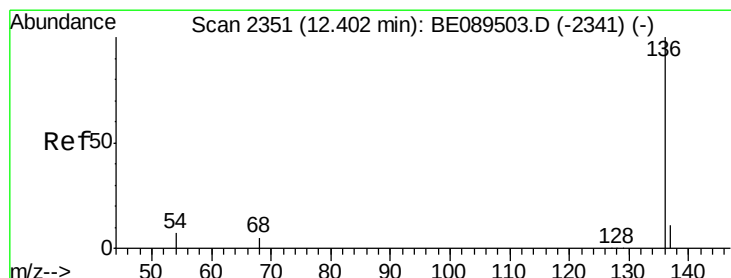
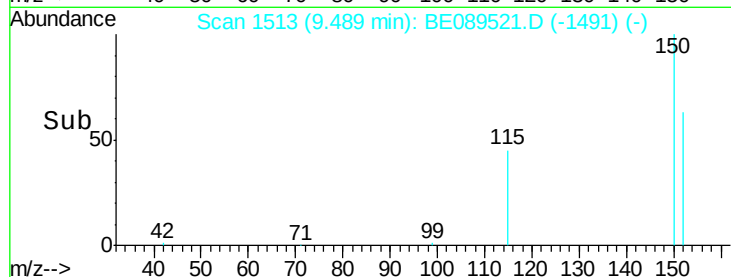
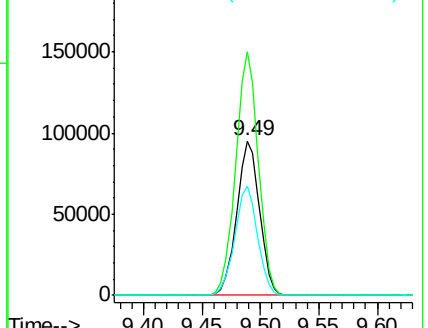
115 71.1 56.6 85.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.40 min Scan# 2352

Delta R.T. 0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

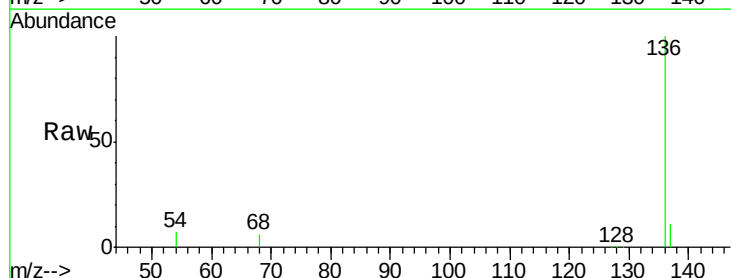
Tgt Ion:136 Resp: 558318

Ion Ratio Lower Upper

136 100

137 10.9 8.6 12.8

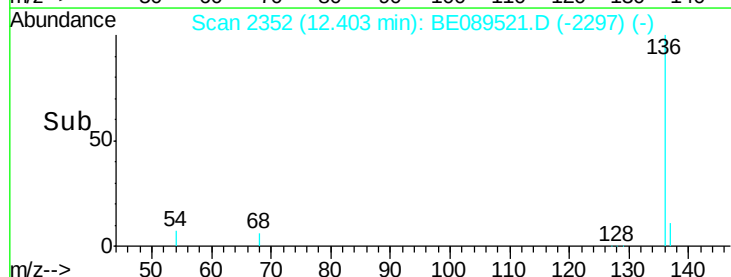
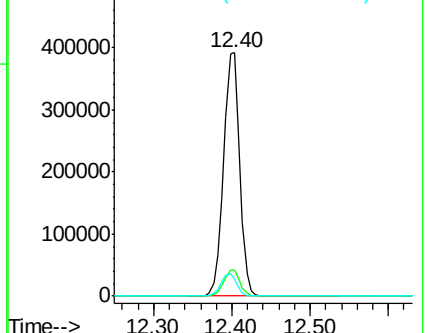
54 7.1 6.0 9.0

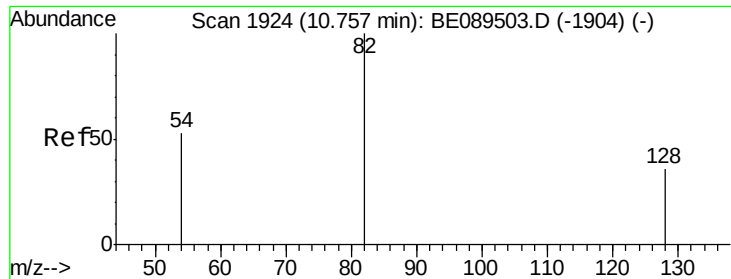


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 1.95 ng

RT: 10.76 min Scan# 1924

Delta R.T. -0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

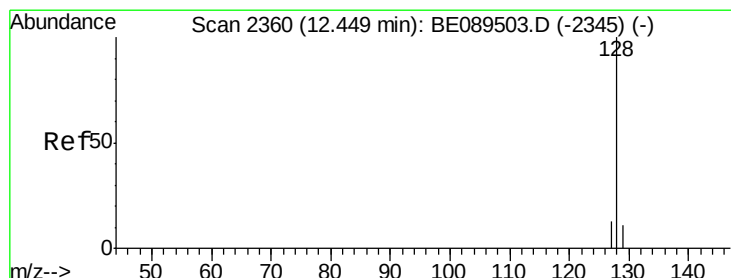
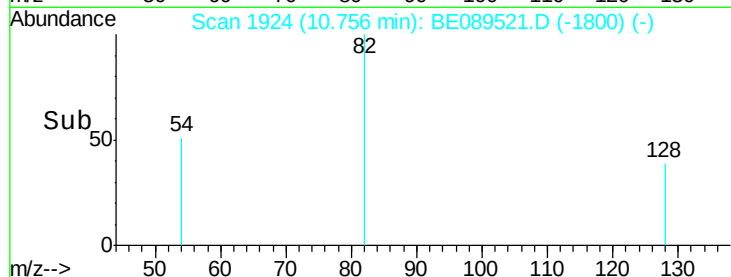
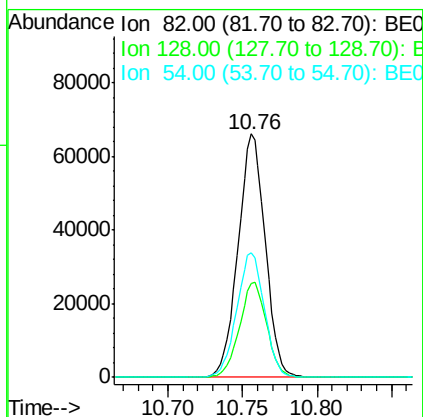
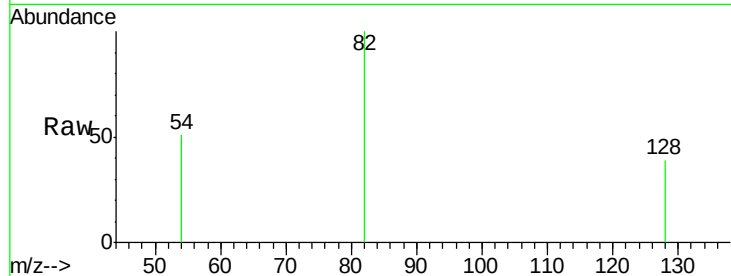
Tgt Ion: 82 Resp: 83218

Ion Ratio Lower Upper

82 100

128 38.7 29.3 43.9

54 51.3 42.6 64.0



#4

Naphthalene

Concen: 0.01 ng

RT: 12.45 min Scan# 2360

Delta R.T. -0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

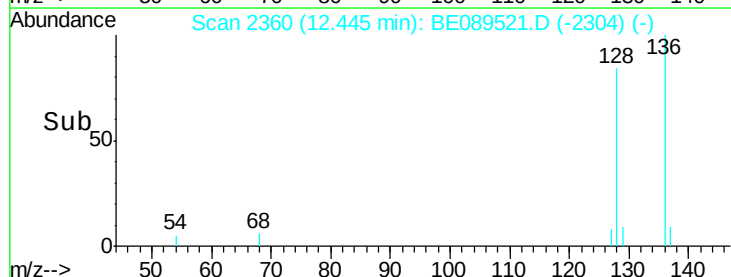
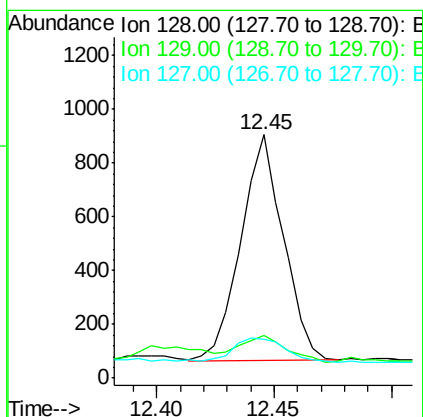
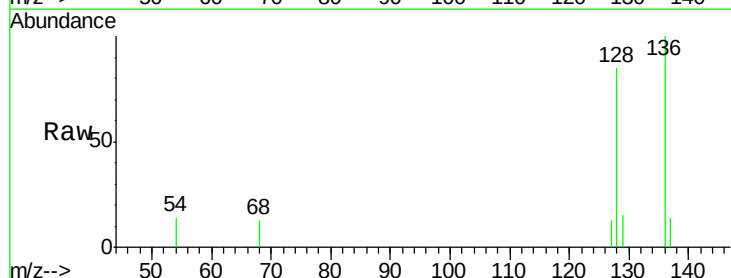
Tgt Ion: 128 Resp: 1056

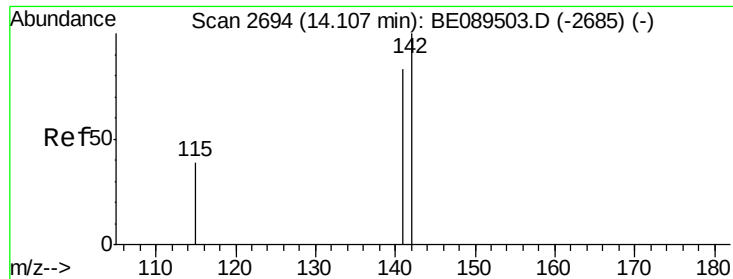
Ion Ratio Lower Upper

128 100

129 17.7 8.8 13.2#

127 15.8 10.3 15.5#





#5

2-Methylnaphthalene

Concen: 0.00 ng

RT: 14.10 min Scan# 2694

Delta R.T. -0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

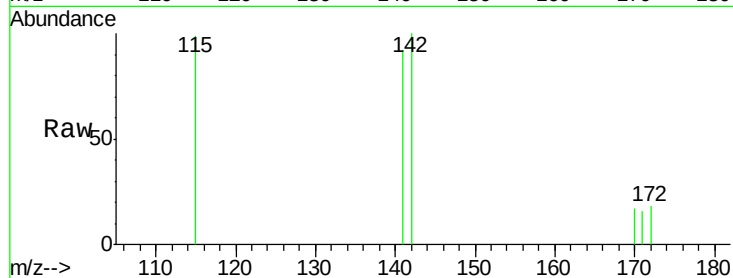
Tgt Ion:142 Resp: 342

Ion Ratio Lower Upper

142 100

141 92.3 66.3 99.5

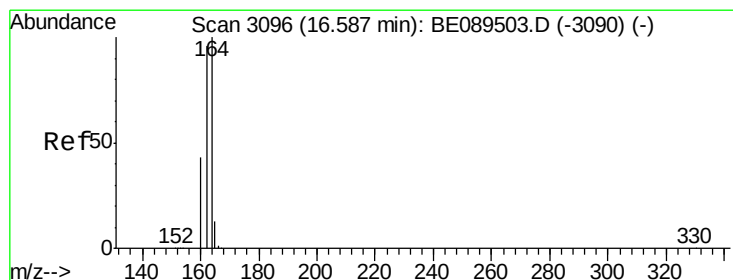
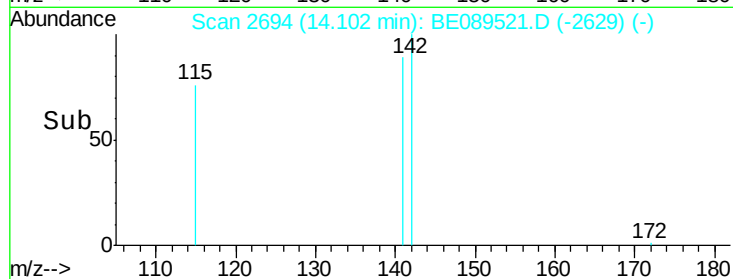
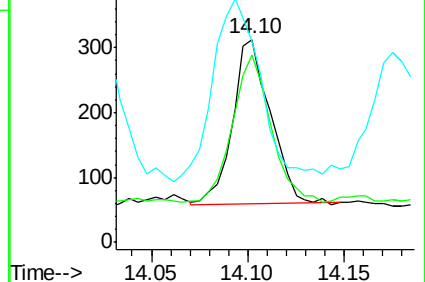
115 99.0 31.1 46.7#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

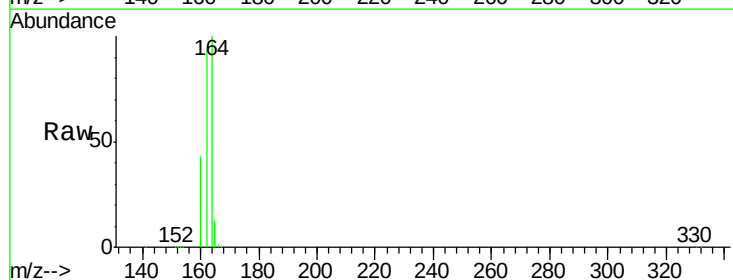
Tgt Ion:164 Resp: 263291

Ion Ratio Lower Upper

164 100

162 94.5 76.6 115.0

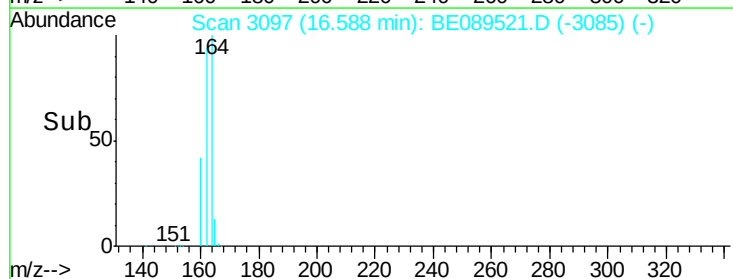
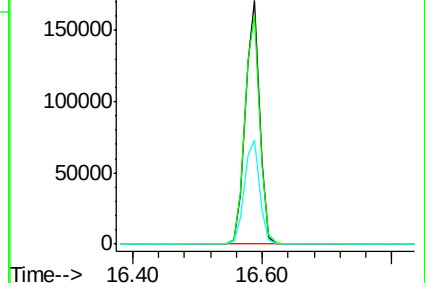
160 42.5 34.6 52.0

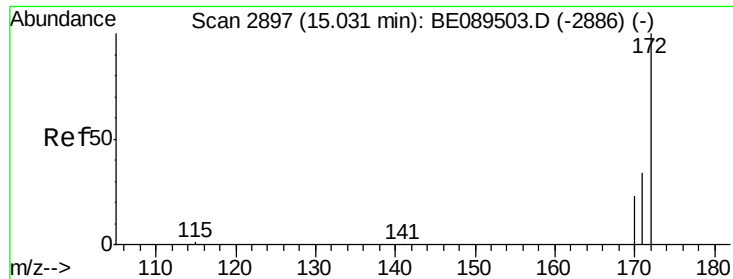


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 1.91 ng

RT: 15.03 min Scan# 2898

Delta R.T. 0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

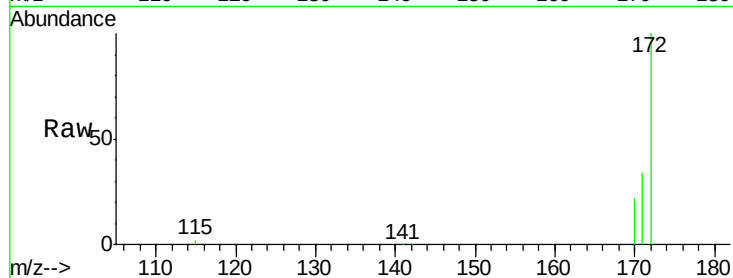
Tgt Ion:172 Resp: 158205

Ion Ratio Lower Upper

172 100

171 33.6 27.4 41.0

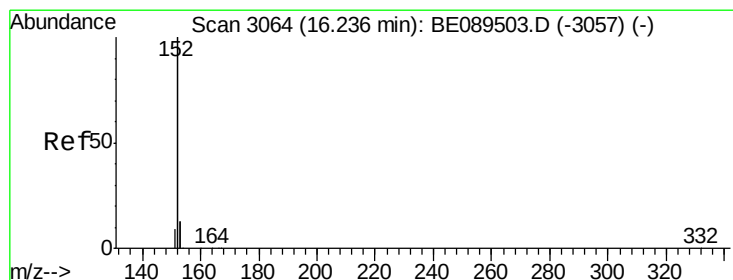
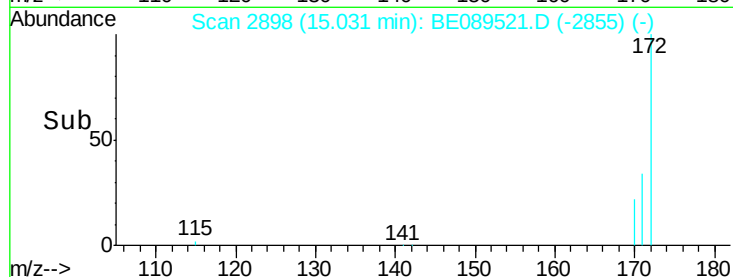
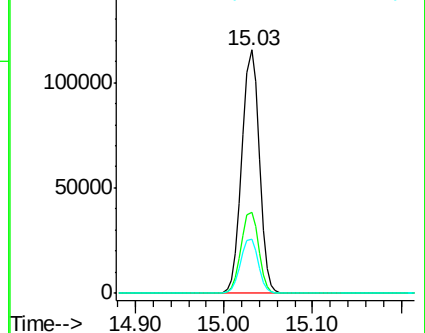
170 22.2 18.4 27.6



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: 0.00 ng

RT: 16.23 min Scan# 3064

Delta R.T. -0.01 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

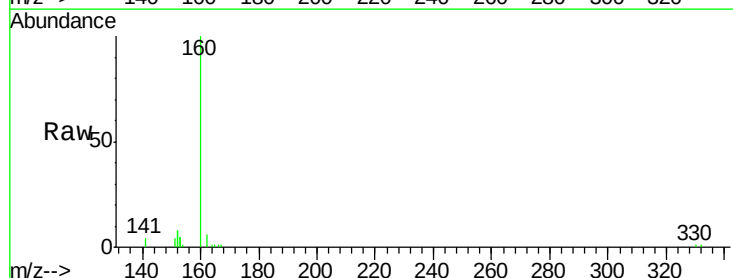
Tgt Ion:152 Resp: 1826

Ion Ratio Lower Upper

152 100

151 21.7 3.9 5.9#

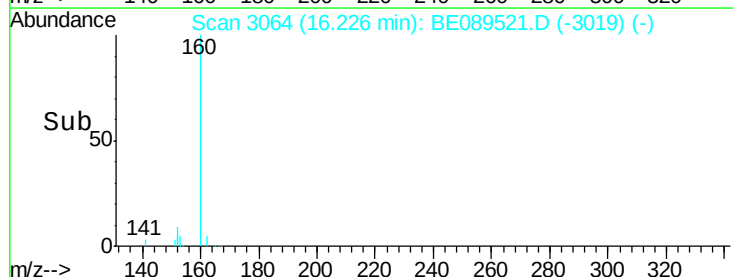
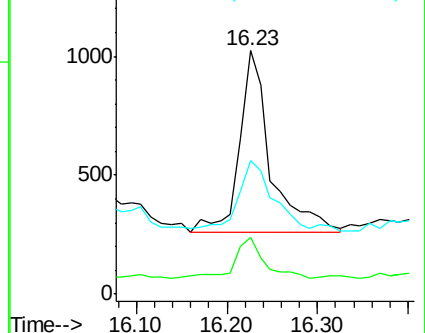
153 39.8 10.4 15.6#

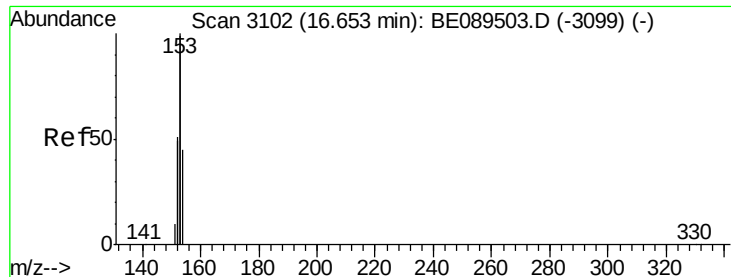


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.00 ng

RT: 16.65 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

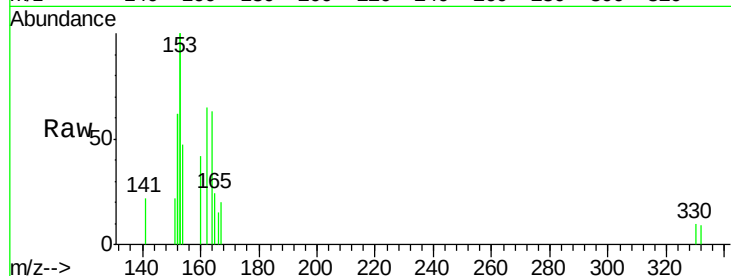
Tgt Ion:154 Resp: 283

Ion Ratio Lower Upper

154 100

153 450.2 341.5 512.3

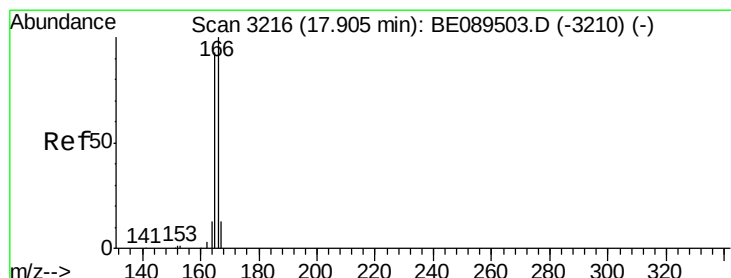
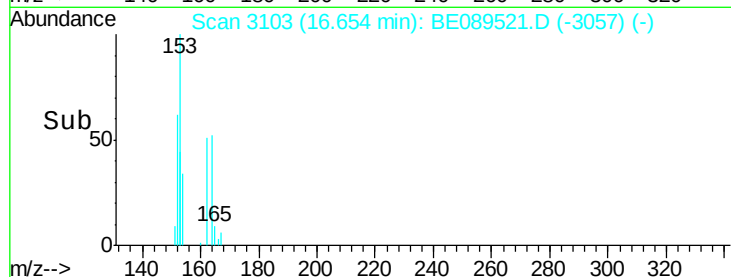
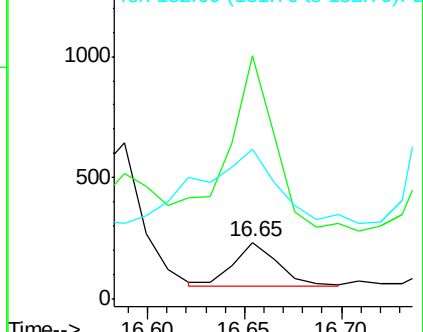
152 397.5 166.6 249.8#



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: 0.25 ng

RT: 18.18 min Scan# 3242

Delta R.T. 0.28 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

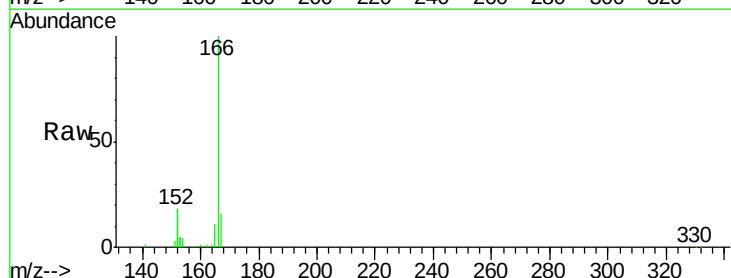
Tgt Ion:166 Resp: 24397

Ion Ratio Lower Upper

166 100

165 11.4 73.6 110.4#

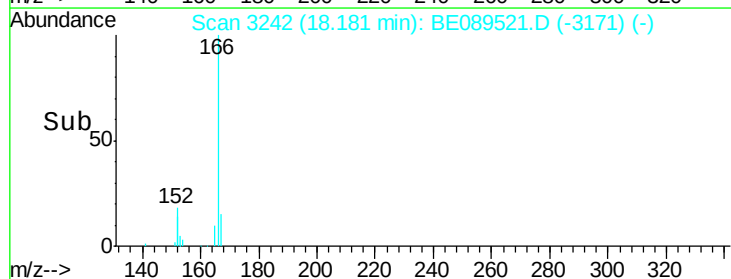
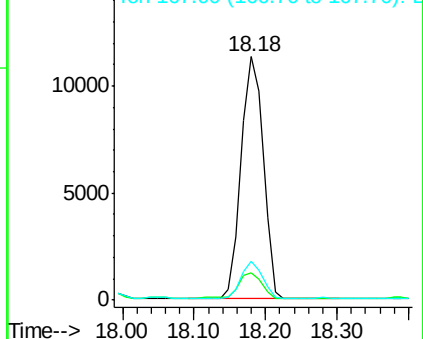
167 14.7 10.6 15.8

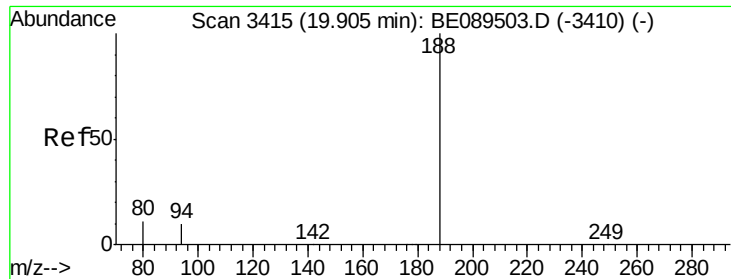


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

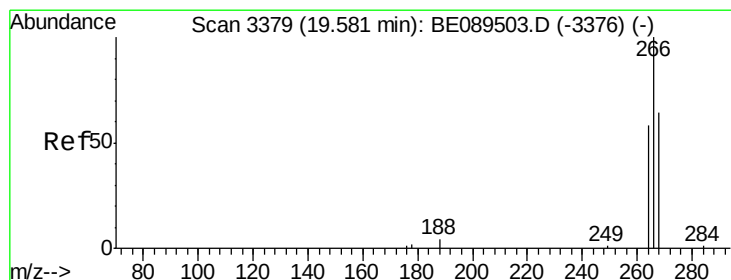
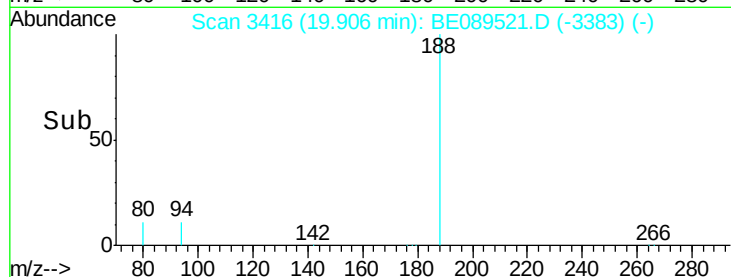
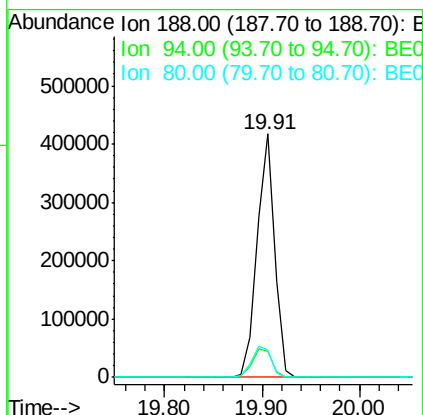
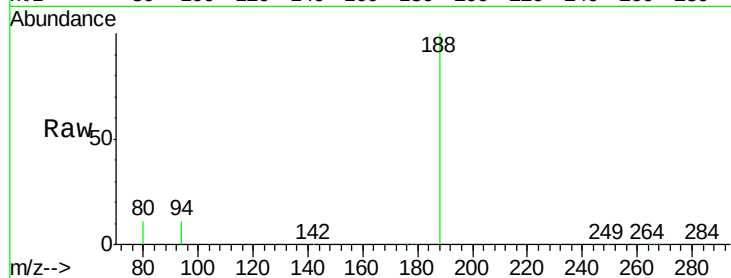




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.91 min Scan# 3416
Delta R.T. 0.00 min
Lab File: BE089521.D
Acq: 6 Feb 2015 4:10

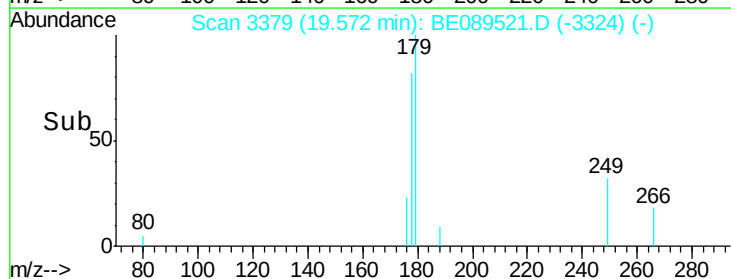
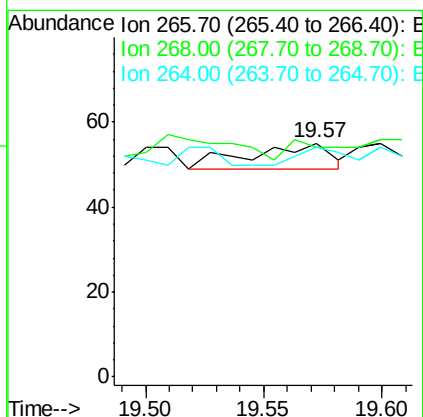
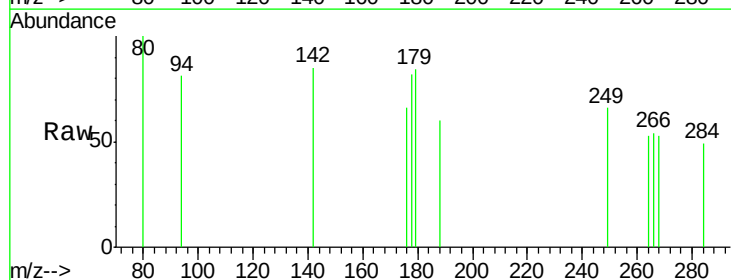
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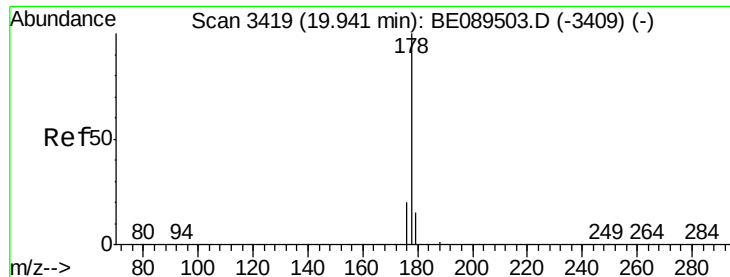
Tgt Ion:188 Resp: 510909
Ion Ratio Lower Upper
188 100
94 10.9 8.2 12.4
80 11.1 8.7 13.1



#12
Pentachlorophenol
Concen: 0.00 ng
RT: 19.57 min Scan# 3379
Delta R.T. -0.01 min
Lab File: BE089521.D
Acq: 6 Feb 2015 4:10

Tgt Ion:266 Resp: 14
Ion Ratio Lower Upper
266 100
268 98.2 56.7 85.1#
264 98.2 51.9 77.9#





#13

Phenanthrene

Concen: 0.01 ng

RT: 19.94 min Scan# 3420

Delta R.T. 0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

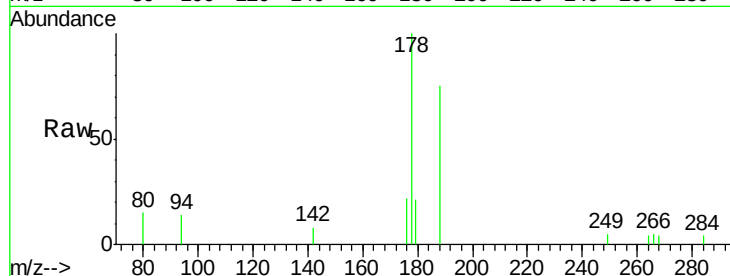
Tgt Ion:178 Resp: 1541

Ion Ratio Lower Upper

178 100

176 17.8 15.4 23.0

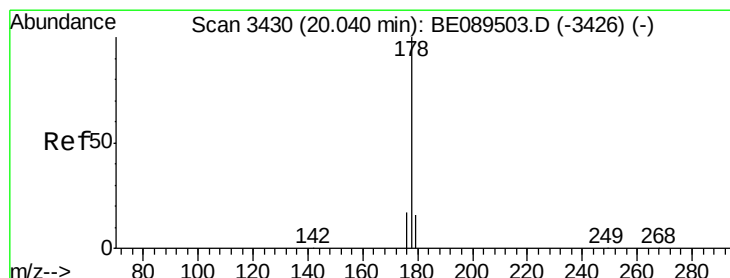
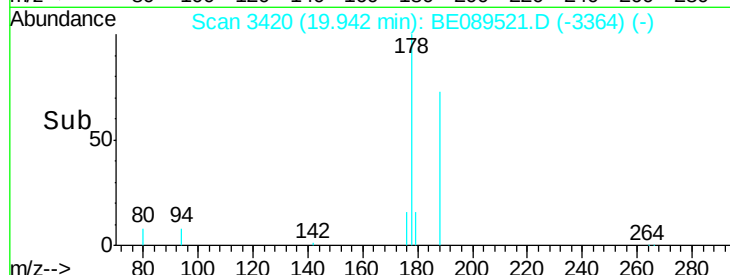
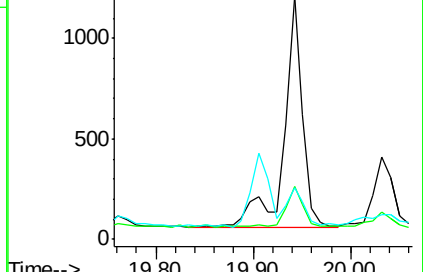
179 15.0 12.4 18.6



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



#14

Anthracene

Concen: 0.07 ng

RT: 19.94 min Scan# 3420

Delta R.T. -0.10 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

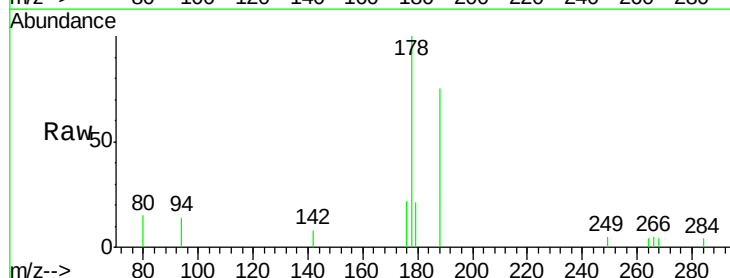
Tgt Ion:178 Resp: 1541

Ion Ratio Lower Upper

178 100

176 17.3 14.6 22.0

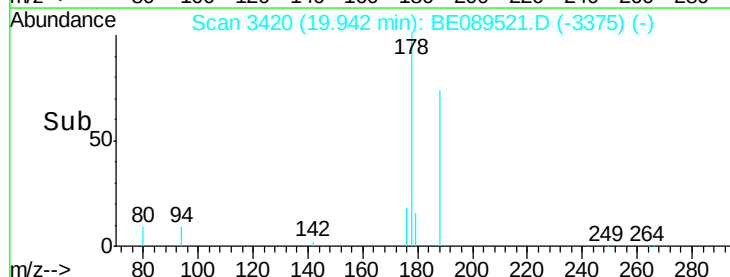
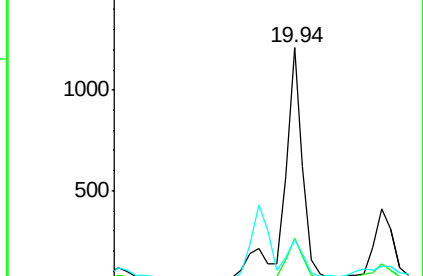
179 15.0 12.1 18.1

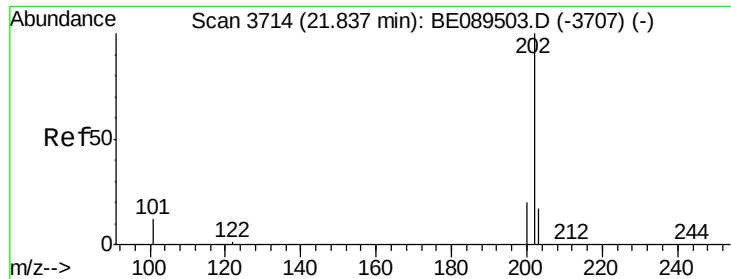


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

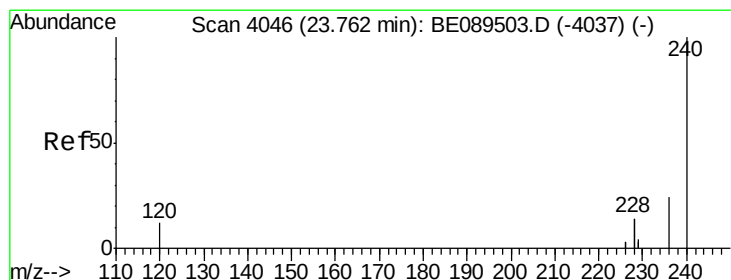
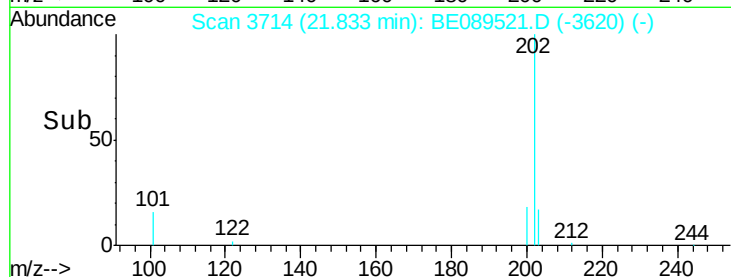
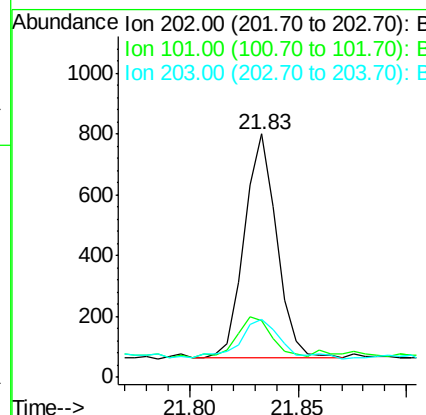
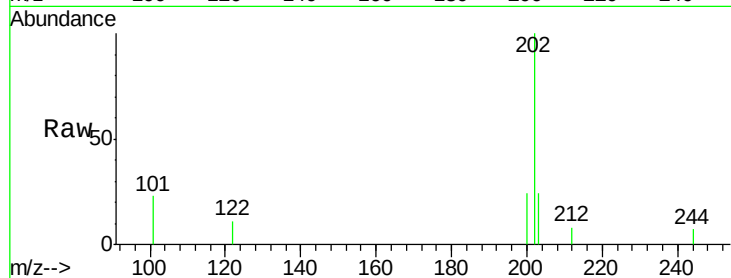




#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.83 min Scan# 3714
 Delta R.T. -0.00 min
 Lab File: BE089521.D
 Acq: 6 Feb 2015 4:10

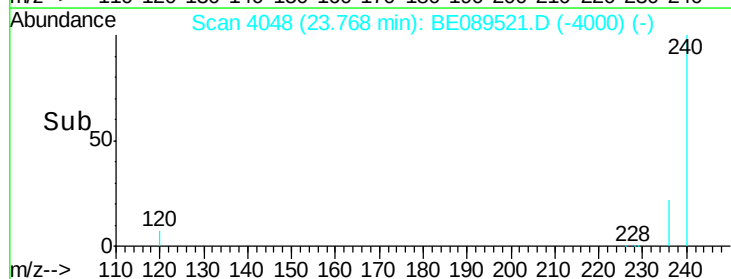
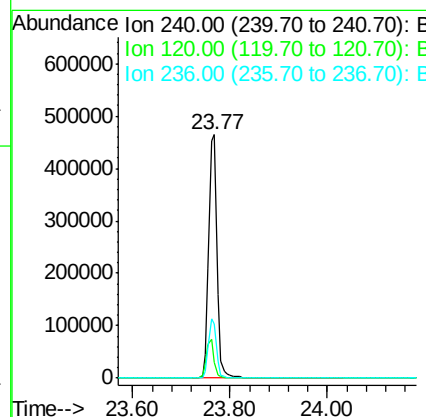
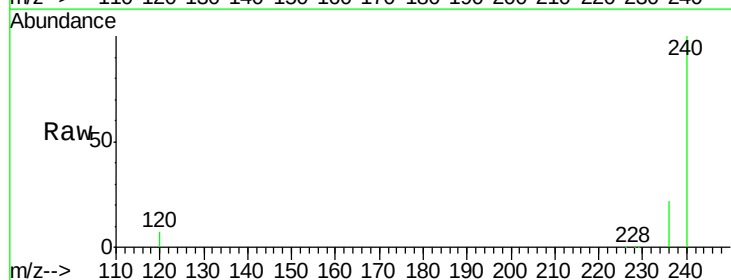
Instrument :
 BNA_E
 ClientSampleId :
 EB-2015-02-02

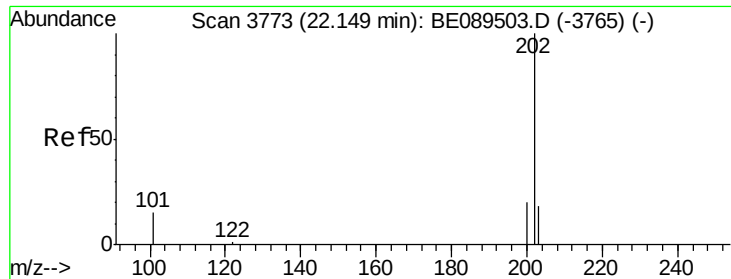
Tgt Ion: 202 Resp: 763
 Ion Ratio Lower Upper
 202 100
 101 20.7 11.3 16.9#
 203 23.5 13.8 20.6#



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.77 min Scan# 4048
 Delta R.T. 0.01 min
 Lab File: BE089521.D
 Acq: 6 Feb 2015 4:10

Tgt Ion: 240 Resp: 543124
 Ion Ratio Lower Upper
 240 100
 120 6.6 9.6 14.4#
 236 22.5 19.4 29.2

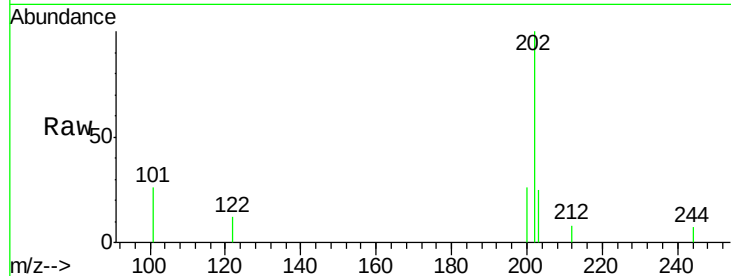




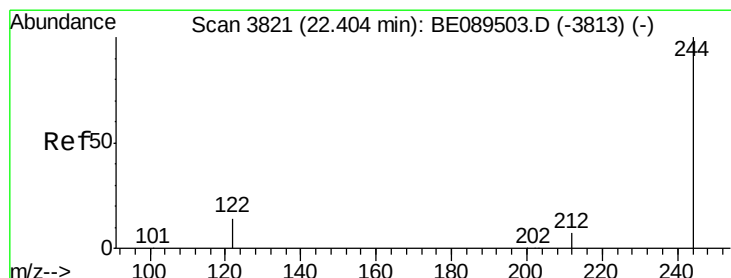
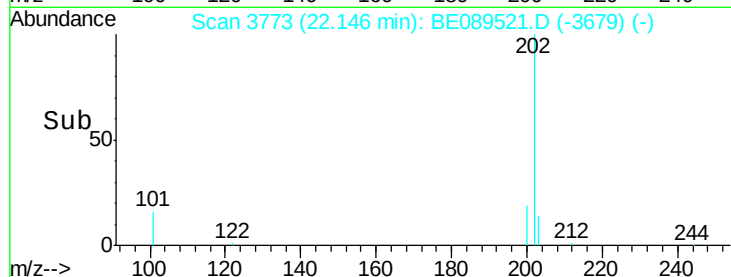
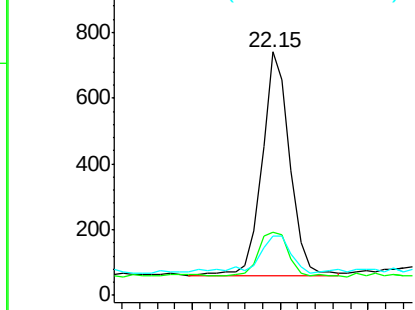
#17
 Pyrene
 Concen: 0.00 ng
 RT: 22.15 min Scan# 3773
 Delta R.T. -0.00 min
 Lab File: BE089521.D
 Acq: 6 Feb 2015 4:10

Instrument :
 BNA_E
 ClientSampleId :
 EB-2015-02-02

Tgt Ion: 202 Resp: 743
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.5 24.7
 203 16.4 14.0 21.0

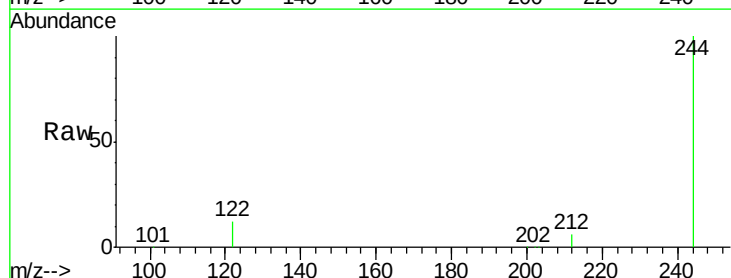


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

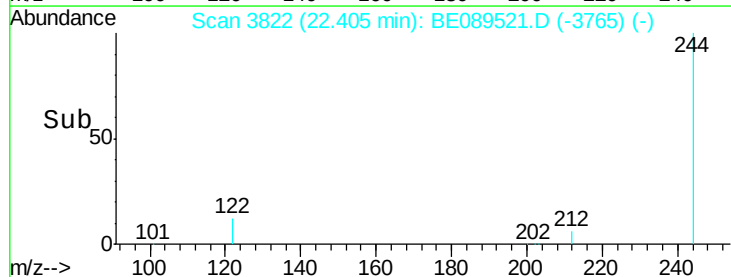
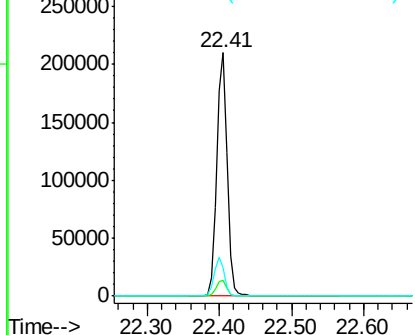


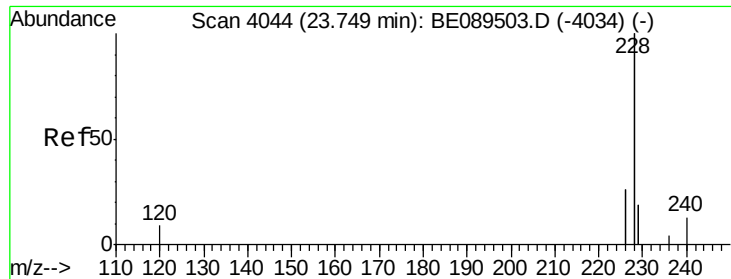
#18
 Terphenyl-d14
 Concen: 2.21 ng
 RT: 22.41 min Scan# 3822
 Delta R.T. 0.00 min
 Lab File: BE089521.D
 Acq: 6 Feb 2015 4:10

Tgt Ion: 244 Resp: 209157
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.5 8.3
 122 11.7 11.1 16.7



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: 0.05 ng

RT: 23.76 min Scan# 4047

Delta R.T. 0.01 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

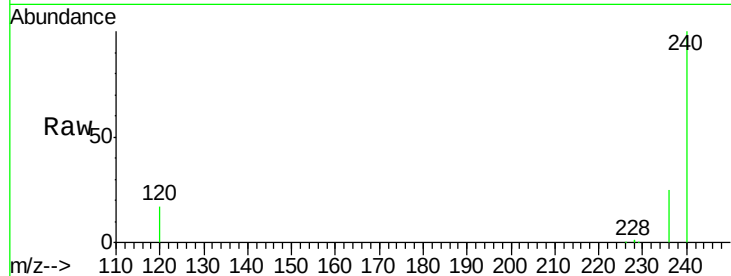
Tgt Ion:228 Resp: 7968

Ion Ratio Lower Upper

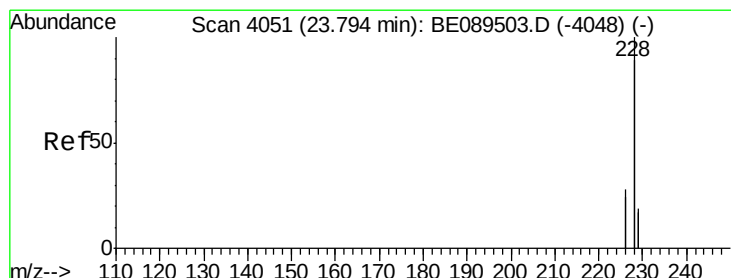
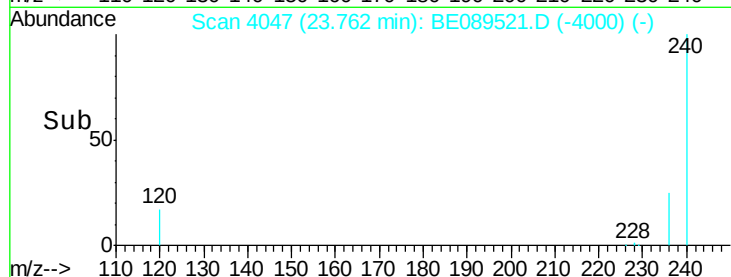
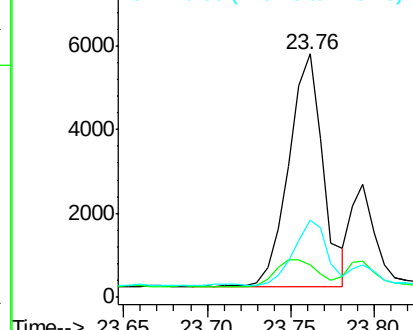
228 100

226 13.5 21.0 31.6#

229 32.0 15.5 23.3#



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: 0.02 ng

RT: 23.79 min Scan# 4052

Delta R.T. 0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

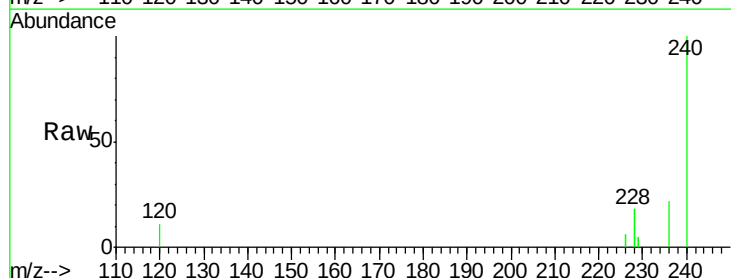
Tgt Ion:228 Resp: 2567

Ion Ratio Lower Upper

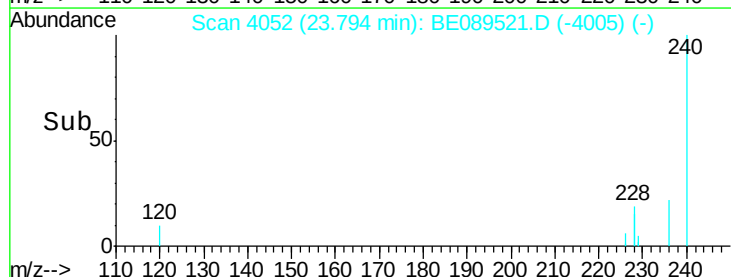
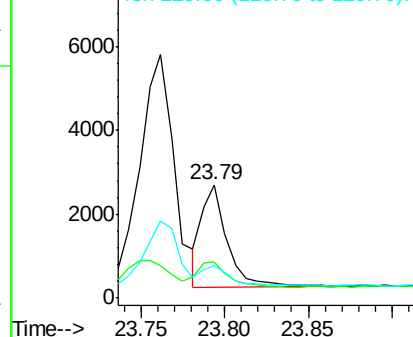
228 100

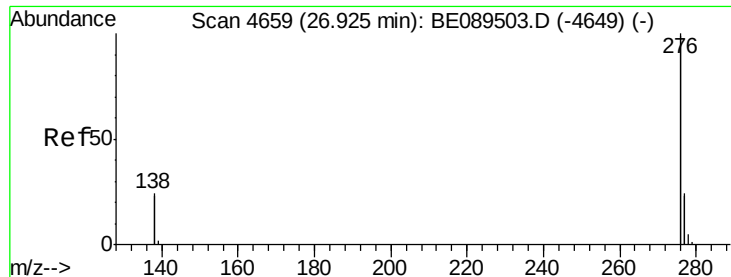
226 31.9 22.3 33.5

229 28.8 15.4 23.0#



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: 0.07 ng

RT: 26.91 min Scan# 4658

Delta R.T. -0.01 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

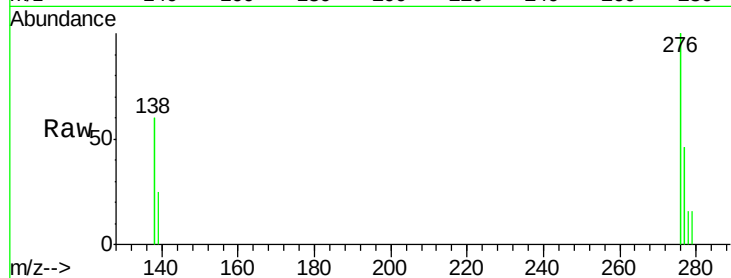
Tgt Ion:276 Resp: 2166

Ion Ratio Lower Upper

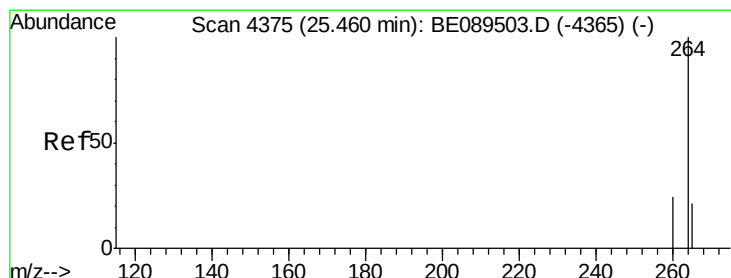
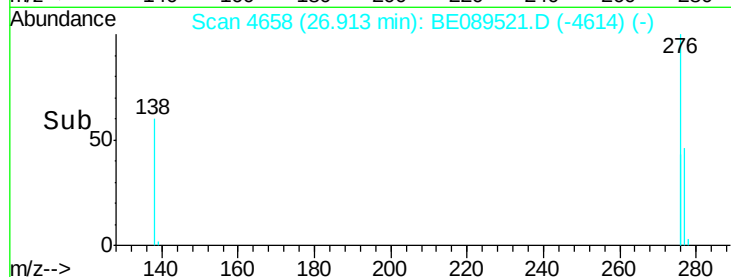
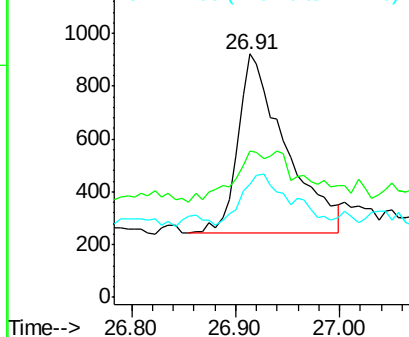
276 100

138 18.6 23.2 34.8#

277 28.6 19.8 29.6



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.46 min Scan# 4377

Delta R.T. 0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

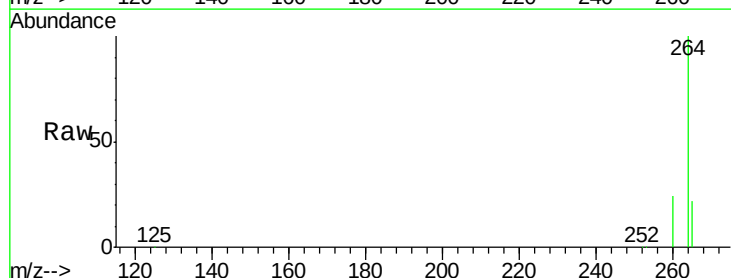
Tgt Ion:264 Resp: 523618

Ion Ratio Lower Upper

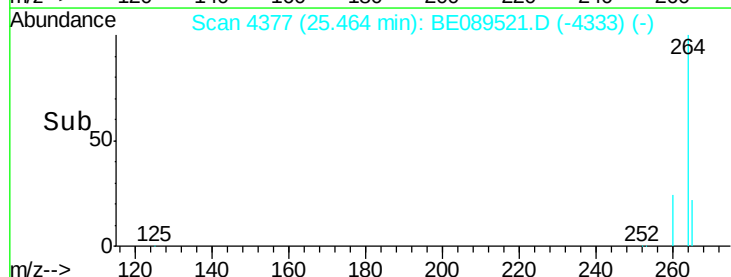
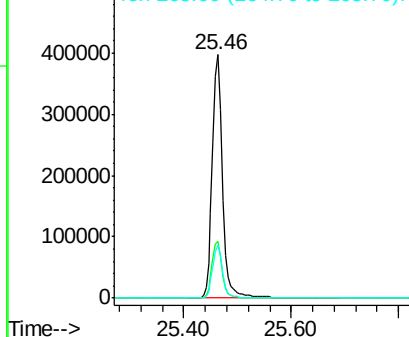
264 100

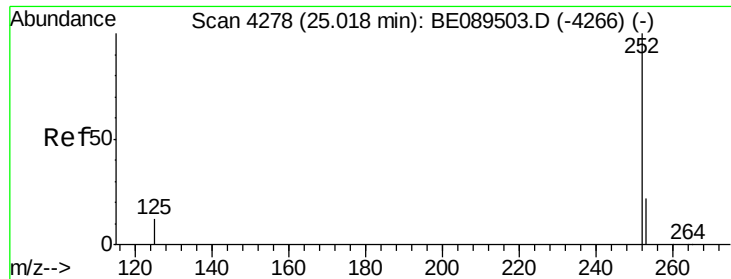
260 23.5 19.0 28.6

265 21.7 17.0 25.6



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

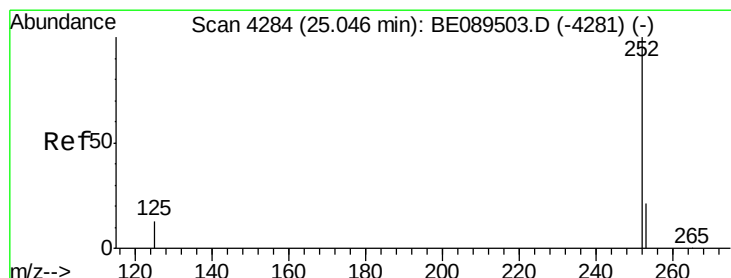
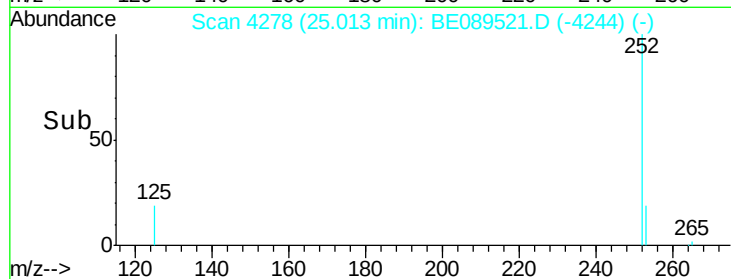
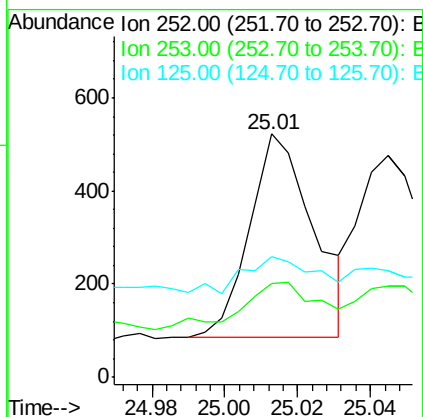
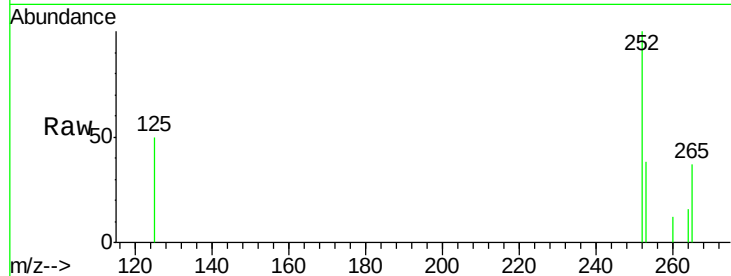




#23
Benzo(b)fluoranthene
Concen: 0.11 ng
RT: 25.01 min Scan# 4278
Delta R.T. -0.01 min
Lab File: BE089521.D
Acq: 6 Feb 2015 4:10

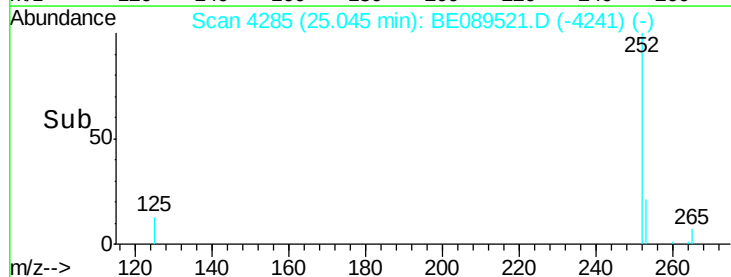
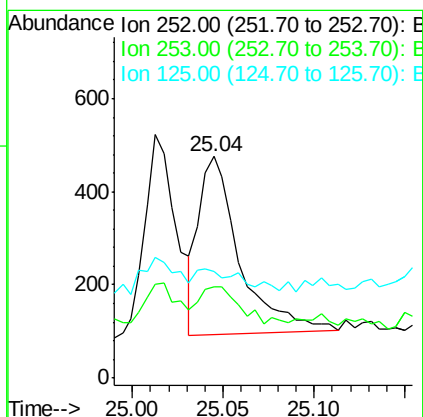
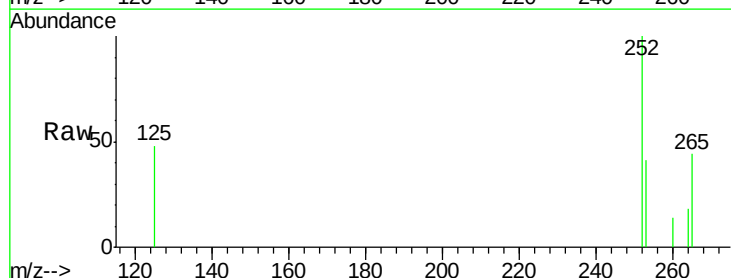
Instrument :
BNA_E
ClientSampleId :
EB-2015-02-02

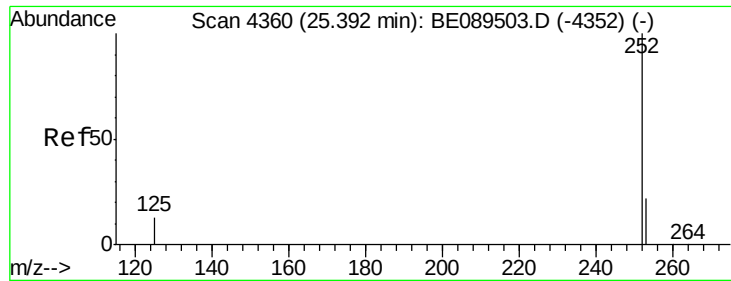
Tgt Ion: 252 Resp: 534
Ion Ratio Lower Upper
252 100
253 38.2 17.4 26.0#
125 49.7 9.6 14.4#



#24
Benzo(k)fluoranthene
Concen: 0.00 ng
RT: 25.04 min Scan# 4285
Delta R.T. -0.00 min
Lab File: BE089521.D
Acq: 6 Feb 2015 4:10

Tgt Ion: 252 Resp: 607
Ion Ratio Lower Upper
252 100
253 41.0 17.0 25.6#
125 48.3 10.2 15.4#





#25

Benzo(a)pyrene

Concen: 0.10 ng

RT: 25.39 min Scan# 4360

Delta R.T. -0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02

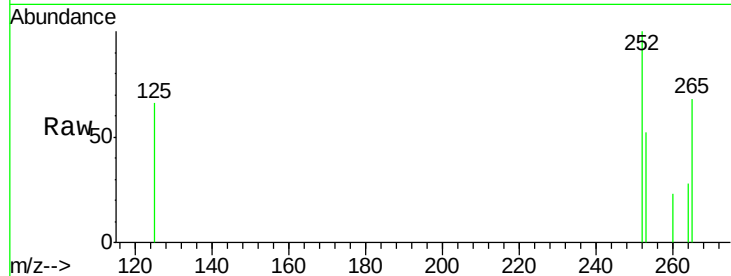
Tgt Ion: 252 Resp: 413

Ion Ratio Lower Upper

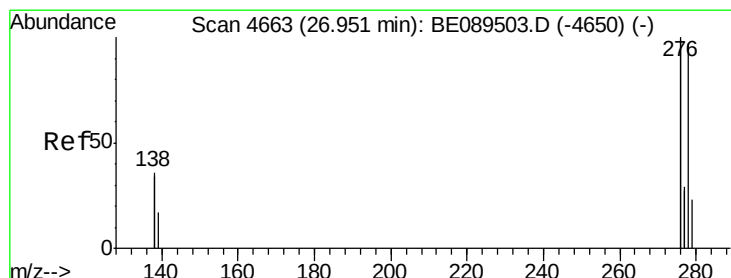
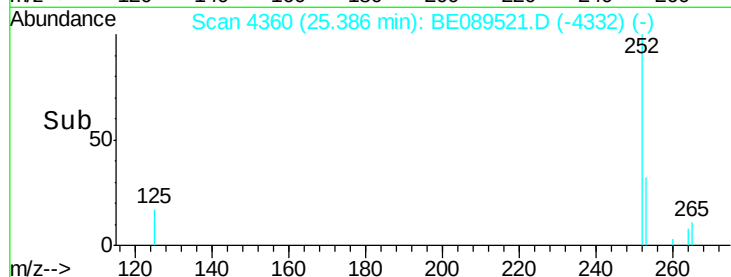
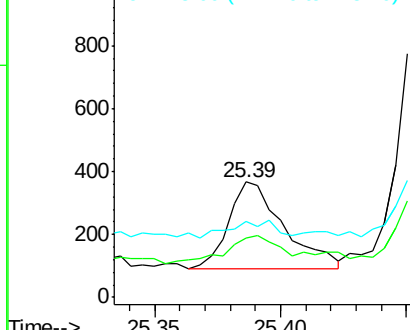
252 100

253 51.9 17.8 26.6#

125 66.4 10.7 16.1#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.07 ng

RT: 26.95 min Scan# 4663

Delta R.T. -0.00 min

Lab File: BE089521.D

Acq: 6 Feb 2015 4:10

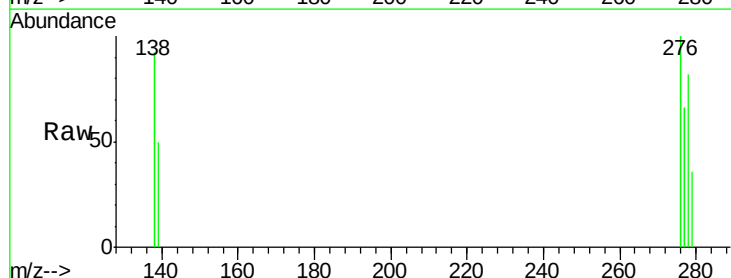
Tgt Ion: 278 Resp: 478

Ion Ratio Lower Upper

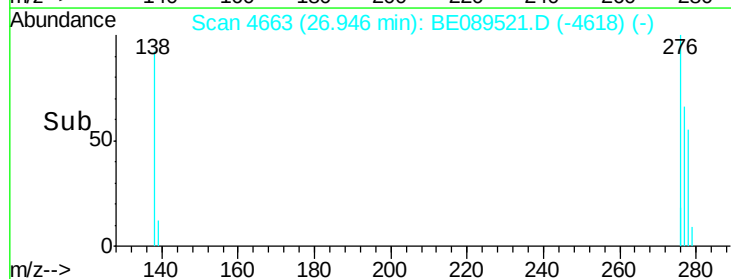
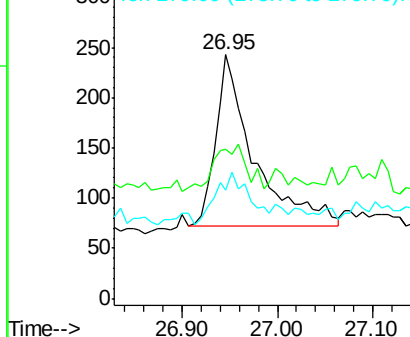
278 100

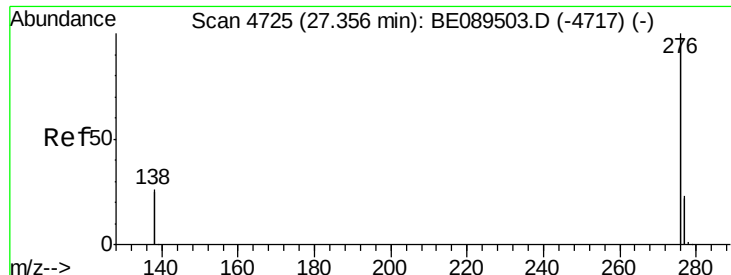
139 61.3 14.6 22.0#

279 44.4 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.35 min Scan# 4725

Delta R.T. -0.00 min

Lab File: BE089521.D

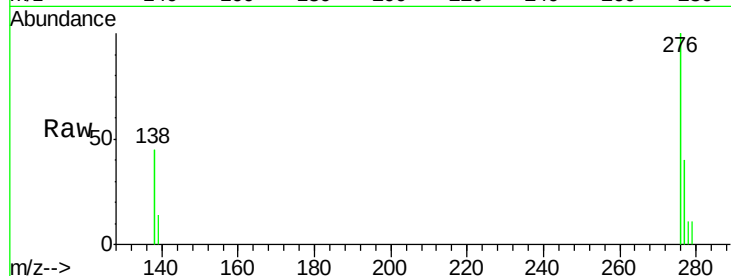
Acq: 6 Feb 2015 4:10

Instrument :

BNA_E

ClientSampleId :

EB-2015-02-02



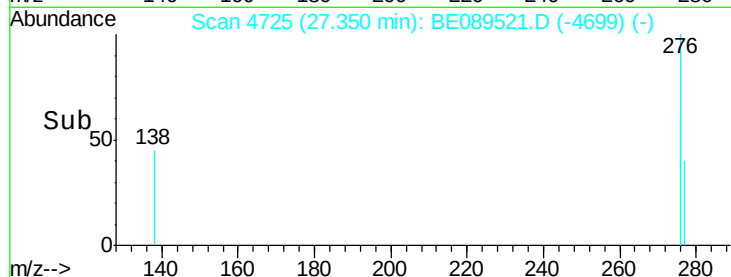
Tgt Ion: 276 Resp: 3212

Ion Ratio Lower Upper

276 100

277 40.1 18.6 28.0#

138 45.1 20.8 31.2#



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

