

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021015\
 Data File : BE089570.D
 Acq On : 11 Feb 2015 6:49
 Operator : TP/IZ
 Sample : MDL-06-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 11 08:08:02 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 11 01:27:13 2015
 Response via : Initial Calibration

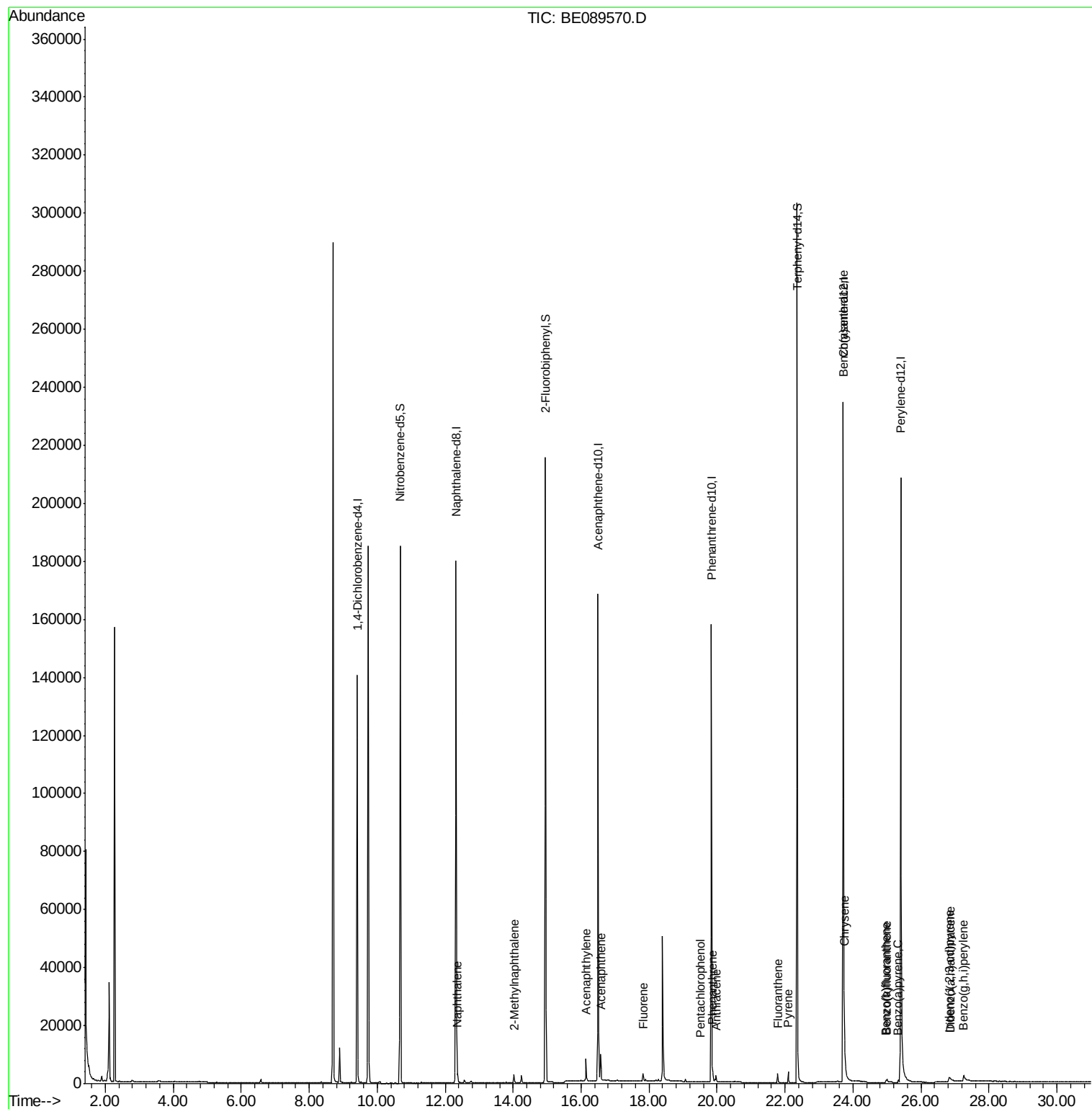
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.41	152	59396	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	222931	5.00	ng	0.00
6) Acenaphthene-d10	16.50	164	102903	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	183570	5.00	ng	0.00
16) Chrysene-d12	23.72	240	220246	5.00	ng	0.00
22) Perylene-d12	25.40	264	217548	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	139711	9.78	ng	0.00
7) 2-Fluorobiphenyl	14.95	172	207088	7.43	ng	0.00
18) Terphenyl-d14	22.36	244	259842	9.47	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.37	128	3923	0.08	ng	97
5) 2-Methylnaphthalene	14.03	142	1983	0.07	ng	96
8) Acenaphthylene	16.15	152	10316	0.06	ng	99
9) Acenaphthene	16.58	154	1742	0.06	ng	89
10) Fluorene	17.83	166	1932	0.07	ng	95
12) Pentachlorophenol	19.51	266	75	0.37	ng	# 77
13) Phenanthrene	19.88	178	3436	0.08	ng	98
14) Anthracene	19.97	178	2526	0.07	ng	98
15) Fluoranthene	21.78	202	2738	0.06	ng	100
17) Pyrene	22.10	202	2970	0.07	ng	99
19) Benzo(a)anthracene	23.70	228	12593	0.07	ng	97
20) Chrysene	23.74	228	17027	0.08	ng	98
21) Indeno(1,2,3-cd)pyrene	26.83	276	4278	0.05	ng	91
23) Benzo(b)fluoranthene	24.97	252	924	0.25	ng	# 85
24) Benzo(k)fluoranthene	24.99	252	2018	0.04	ng	# 85
25) Benzo(a)pyrene	25.34	252	1060	0.21	ng	# 81
26) Dibenzo(a,h)anthracene	26.86	278	728	0.14	ng	# 71
27) Benzo(g,h,i)perylene	27.26	276	5525	0.03	ng	# 75

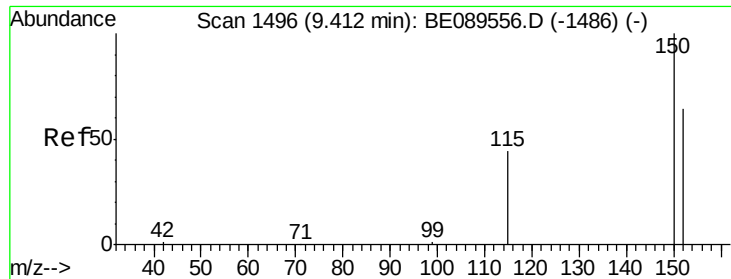
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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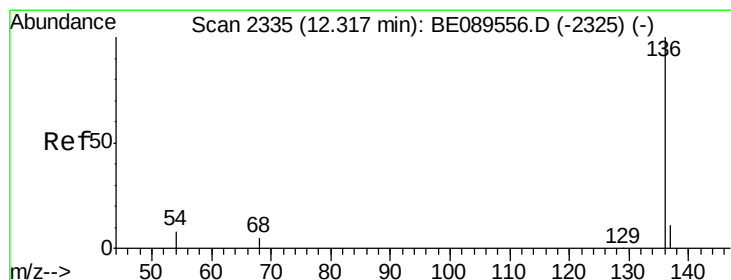
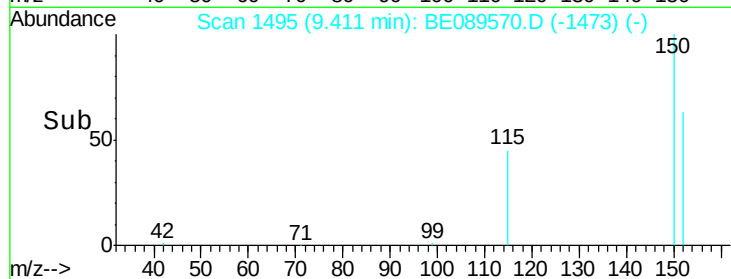
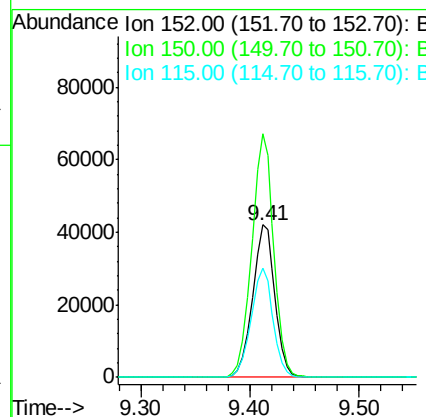
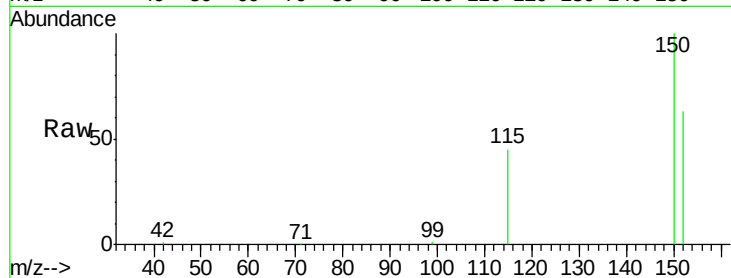




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 9.41 min Scan# 1495
 Delta R.T. -0.00 min
 Lab File: BE089570.D
 Acq: 11 Feb 2015 6:49

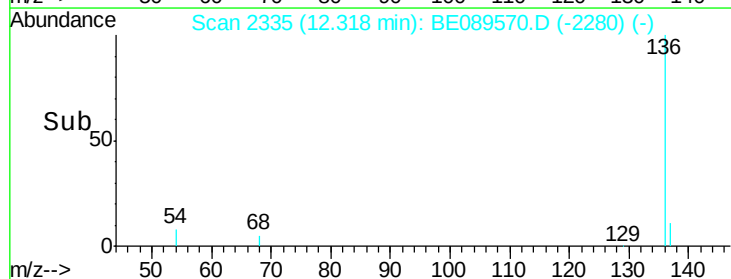
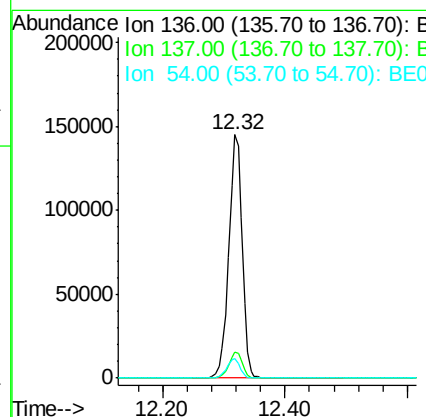
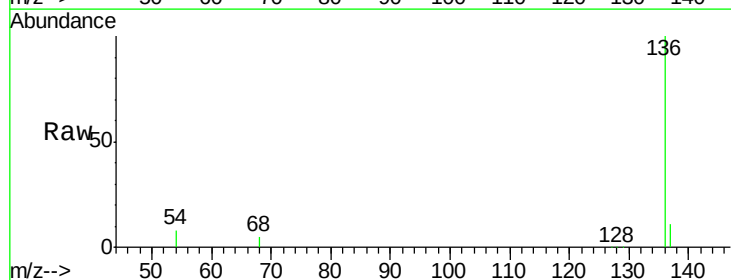
Instrument :
 BNA_E
 ClientSampleId :

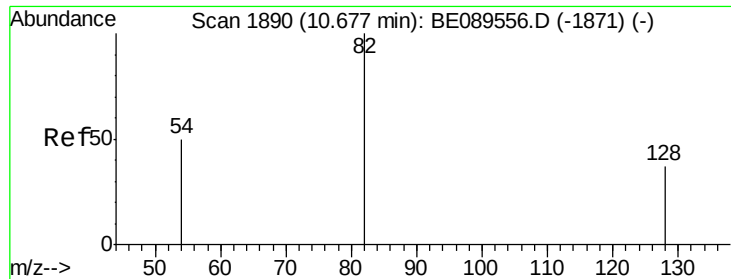
Tgt Ion:152 Resp: 59396
 Ion Ratio Lower Upper
 152 100
 150 159.7 125.6 188.4
 115 71.4 55.8 83.6



#2
 Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.32 min Scan# 2335
 Delta R.T. 0.00 min
 Lab File: BE089570.D
 Acq: 11 Feb 2015 6:49

Tgt Ion:136 Resp: 222931
 Ion Ratio Lower Upper
 136 100
 137 10.8 8.6 13.0
 54 7.9 6.6 9.8





#3

Nitrobenzene-d5

Concen: 9.78 ng

RT: 10.68 min Scan# 1890

Delta R.T. 0.00 min

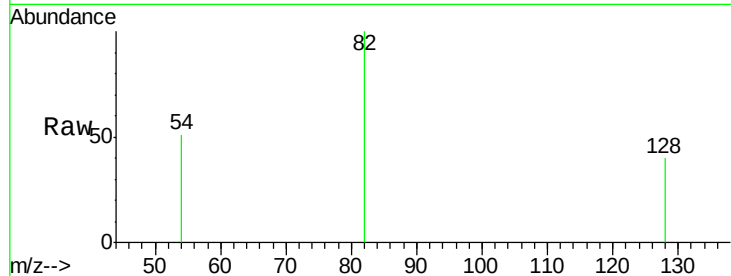
Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Instrument :

BNA_E

ClientSampleId :



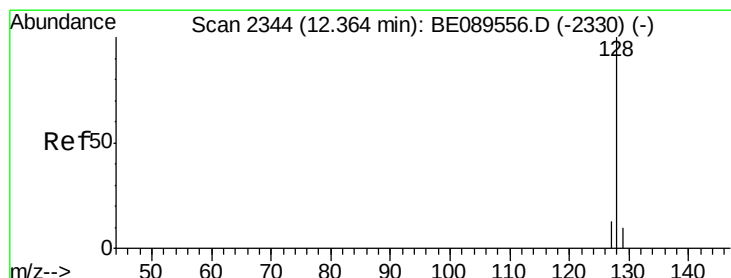
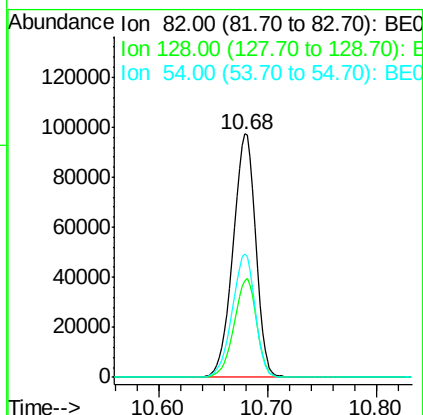
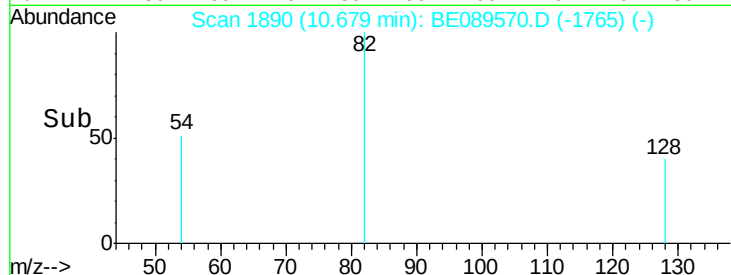
Tgt Ion: 82 Resp: 139711

Ion Ratio Lower Upper

82 100

128 39.6 30.4 45.6

54 50.7 40.7 61.1



#4

Naphthalene

Concen: 0.08 ng

RT: 12.37 min Scan# 2344

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

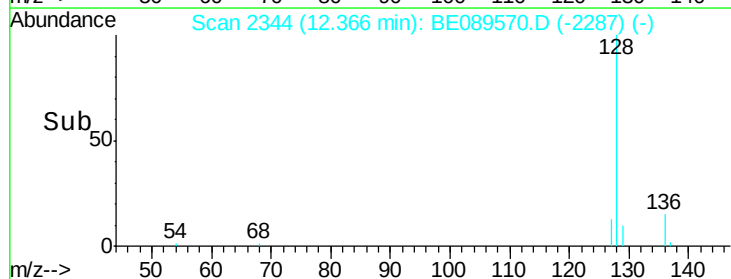
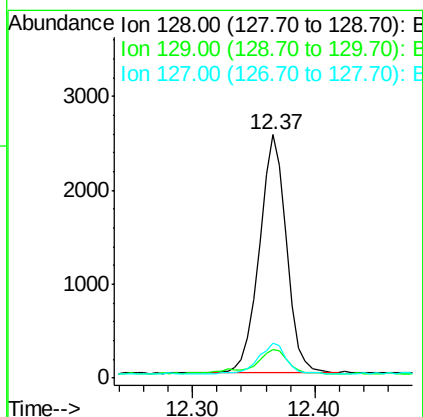
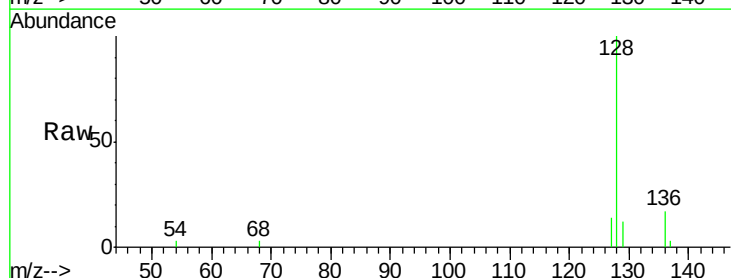
Tgt Ion: 128 Resp: 3923

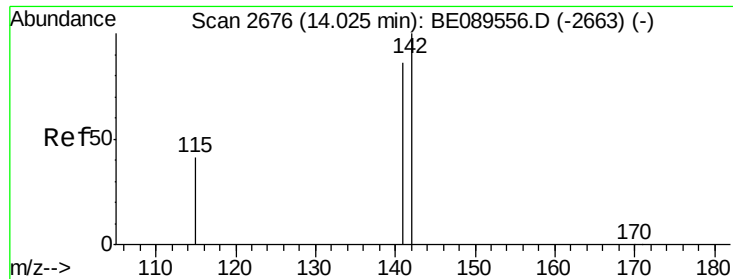
Ion Ratio Lower Upper

128 100

129 11.8 8.5 12.7

127 14.2 10.6 15.8





#5

2-Methylnaphthalene

Concen: 0.07 ng

RT: 14.03 min Scan# 2676

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Instrument :

BNA_E

ClientSampleId :

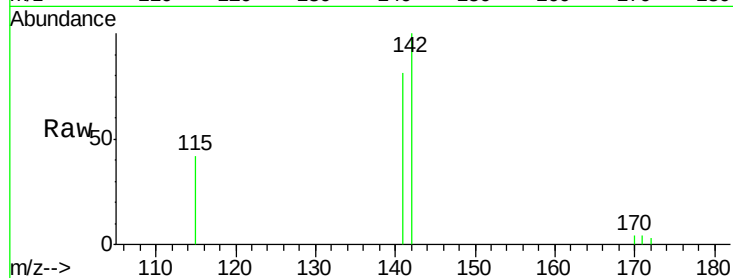
Tgt Ion:142 Resp: 1983

Ion Ratio Lower Upper

142 100

141 80.7 68.6 102.8

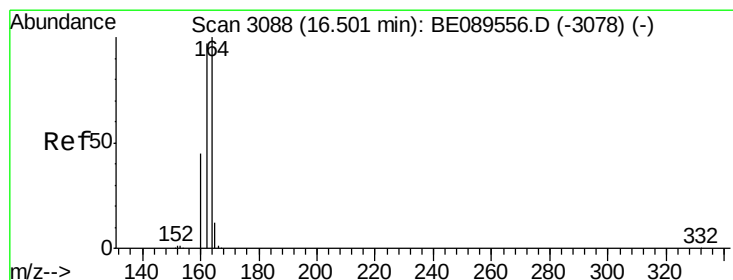
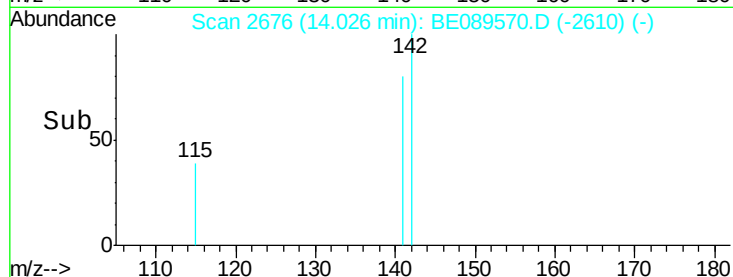
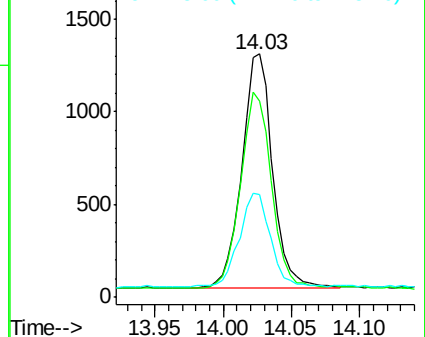
115 42.1 33.0 49.6



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: 16.50 min Scan# 3088

Delta R.T. -0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

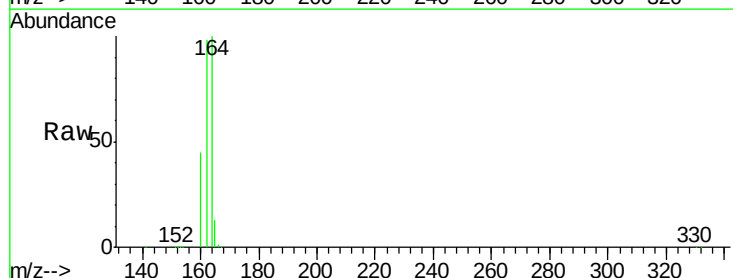
Tgt Ion:164 Resp: 102903

Ion Ratio Lower Upper

164 100

162 98.1 77.8 116.6

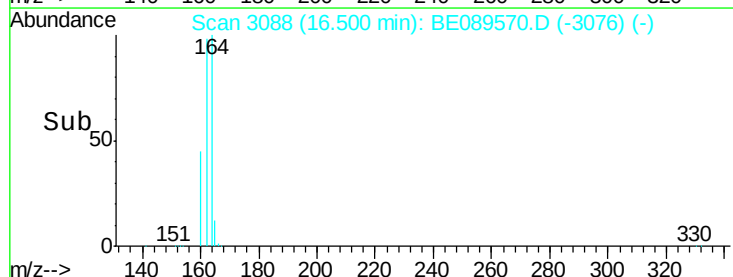
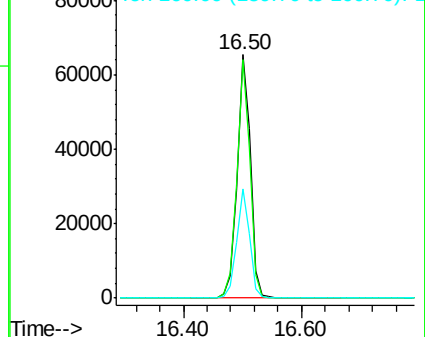
160 44.8 36.2 54.2

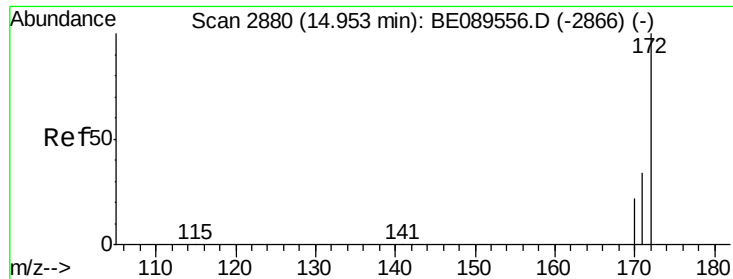


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.43 ng

RT: 14.95 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Instrument :

BNA_E

ClientSampleId :

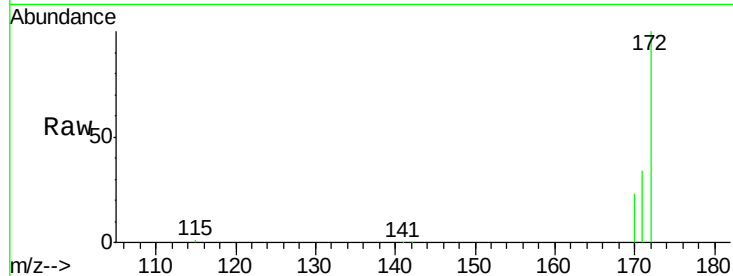
Tgt Ion:172 Resp: 207088

Ion Ratio Lower Upper

172 100

171 34.0 27.4 41.0

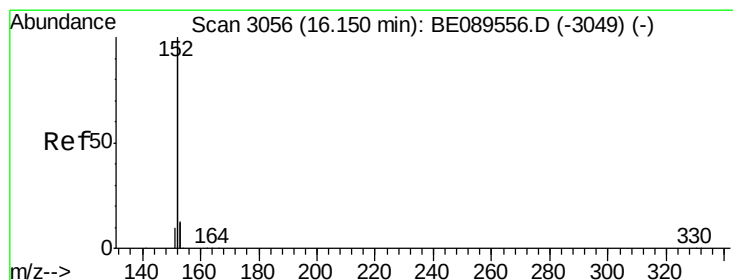
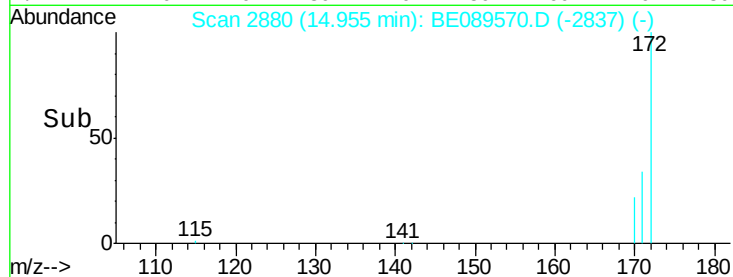
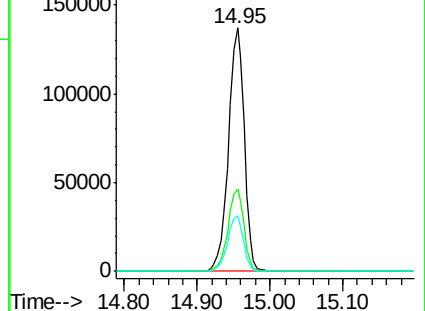
170 22.5 18.3 27.5



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: 0.06 ng

RT: 16.15 min Scan# 3056

Delta R.T. -0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

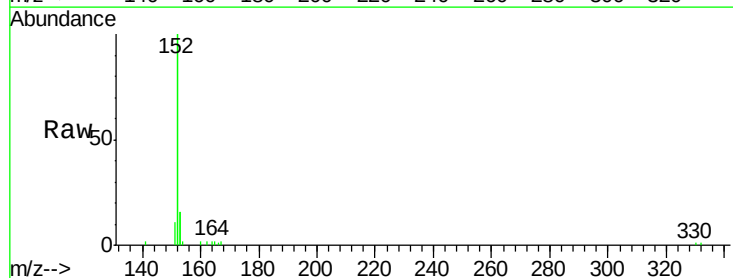
Tgt Ion:152 Resp: 10316

Ion Ratio Lower Upper

152 100

151 5.4 3.9 5.9

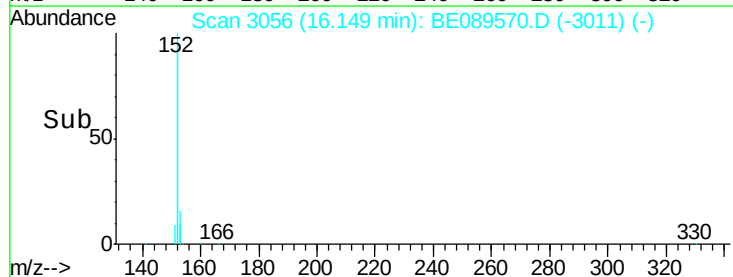
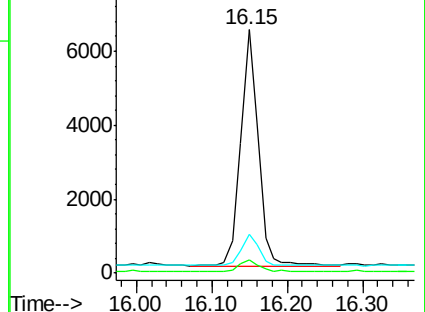
153 13.2 10.4 15.6

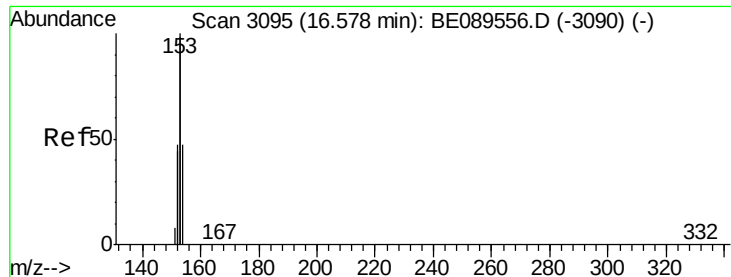


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Instrument :

BNA_E

ClientSampleId :

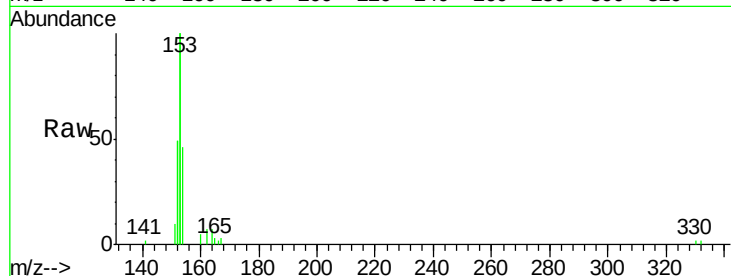
Tgt Ion:154 Resp: 1742

Ion Ratio Lower Upper

154 100

153 462.6 349.0 523.4

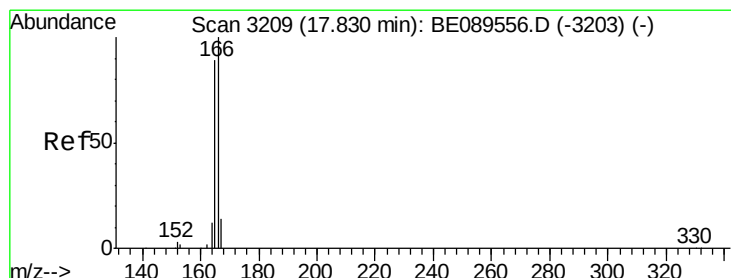
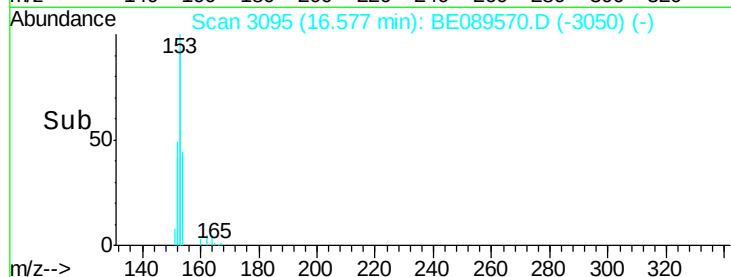
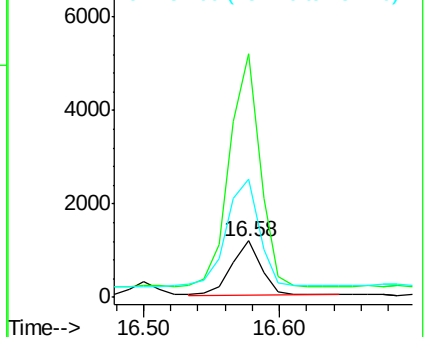
152 237.1 173.0 259.4



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: 0.07 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

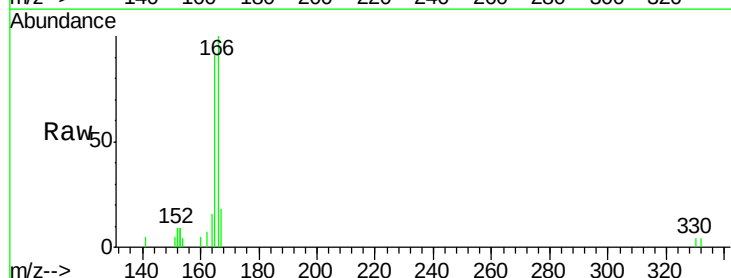
Tgt Ion:166 Resp: 1932

Ion Ratio Lower Upper

166 100

165 88.5 75.1 112.7

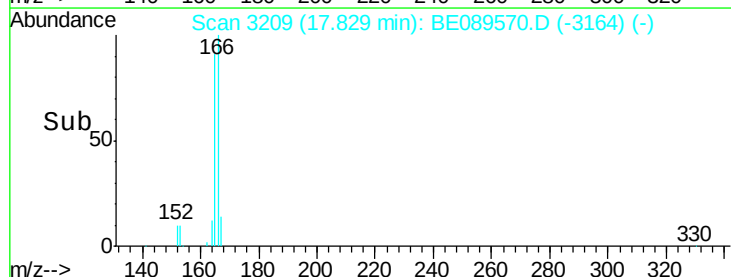
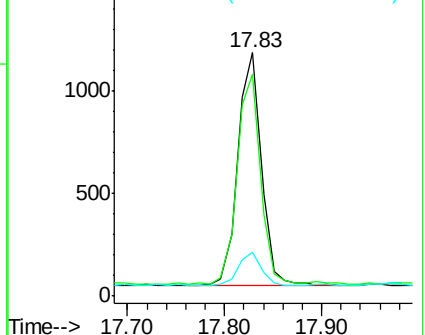
167 14.3 10.6 16.0

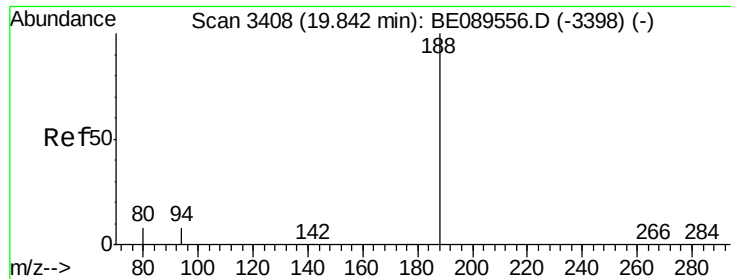


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

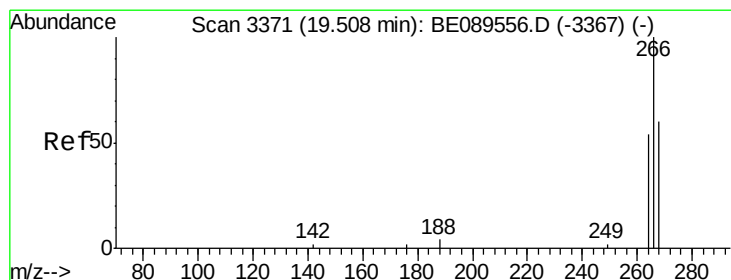
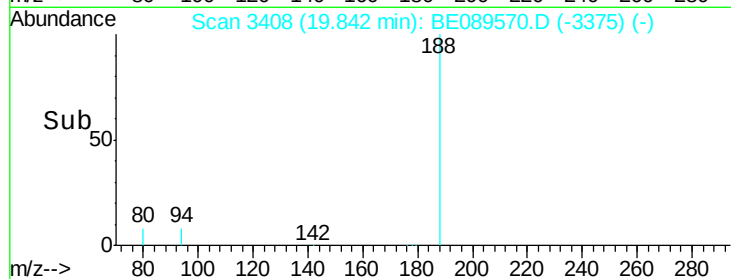
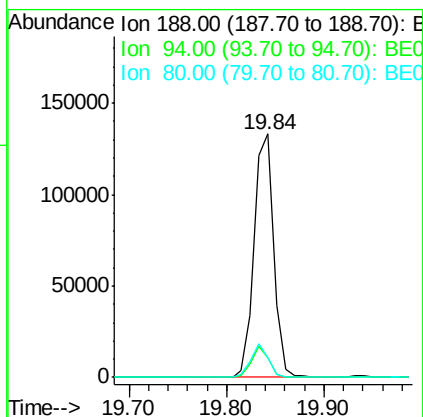
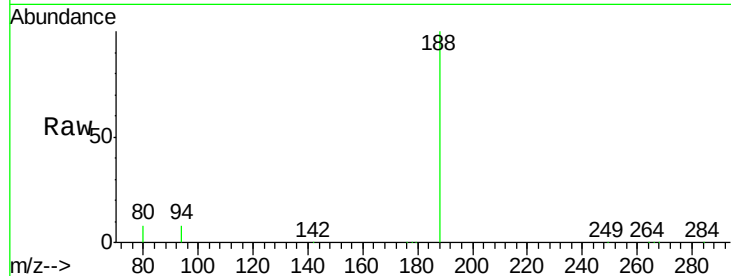




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. 0.00 min
Lab File: BE089570.D
Acq: 11 Feb 2015 6:49

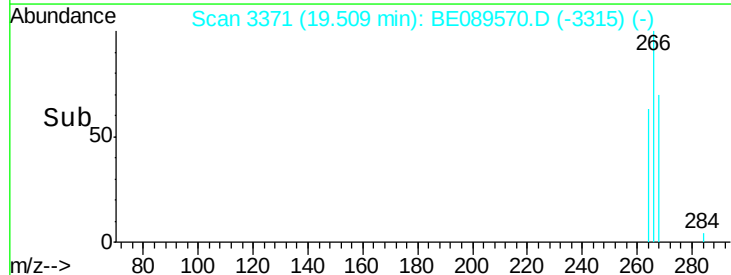
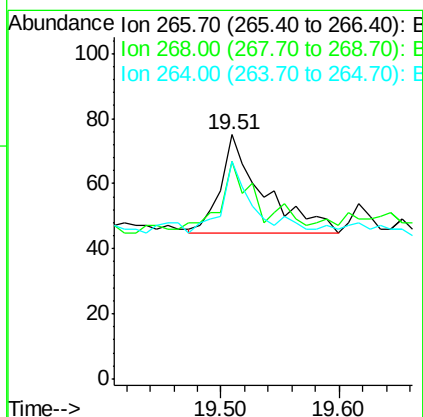
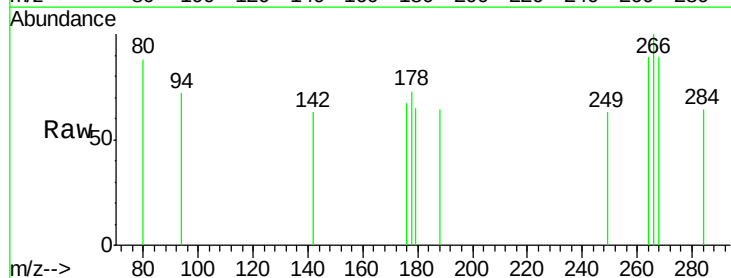
Instrument :
BNA_E
ClientSampleId :

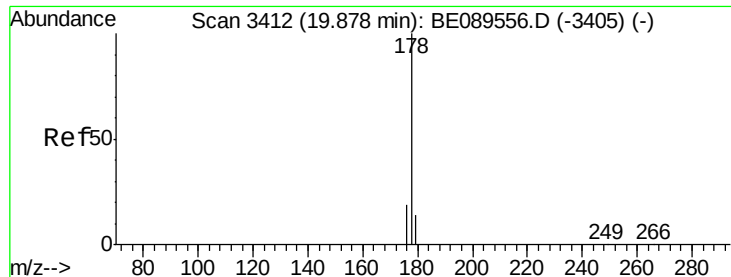
Tgt Ion:188 Resp: 183570
Ion Ratio Lower Upper
188 100
94 7.8 6.2 9.2
80 8.0 6.4 9.6



#12
Pentachlorophenol
Concen: 0.37 ng
RT: 19.51 min Scan# 3371
Delta R.T. 0.00 min
Lab File: BE089570.D
Acq: 11 Feb 2015 6:49

Tgt Ion:266 Resp: 75
Ion Ratio Lower Upper
266 100
268 89.3 57.9 86.9#
264 89.3 54.6 81.8#





#13

Phenanthrene

Concen: 0.08 ng

RT: 19.88 min Scan# 3412

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Instrument :

BNA_E

ClientSampleId :

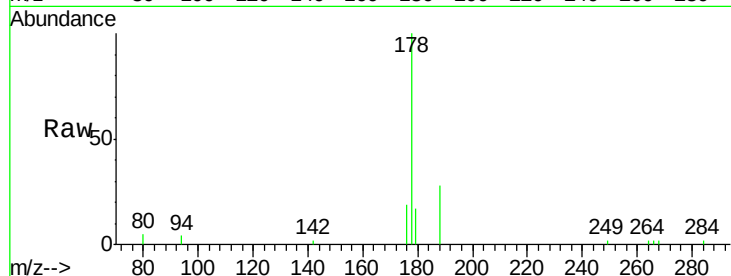
Tgt Ion:178 Resp: 3436

Ion Ratio Lower Upper

178 100

176 17.9 15.1 22.7

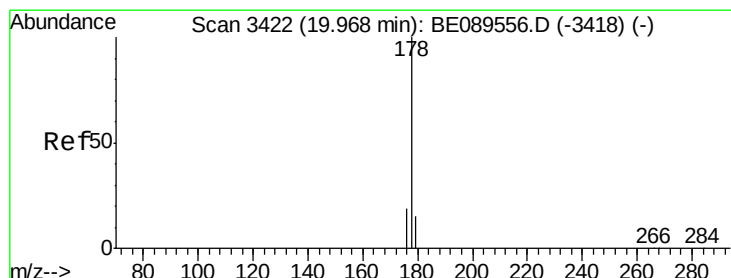
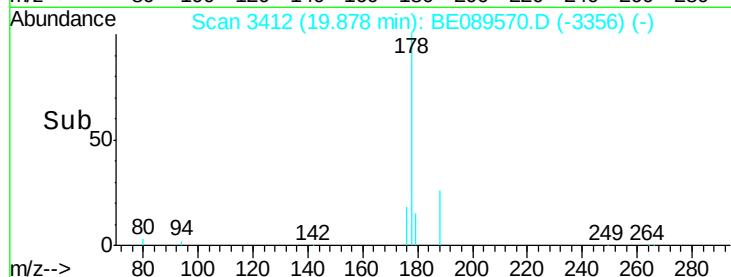
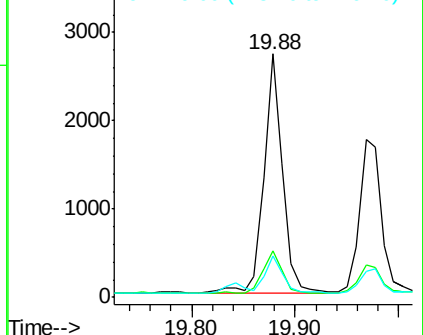
179 14.1 12.1 18.1



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



#14

Anthracene

Concen: 0.07 ng

RT: 19.97 min Scan# 3422

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

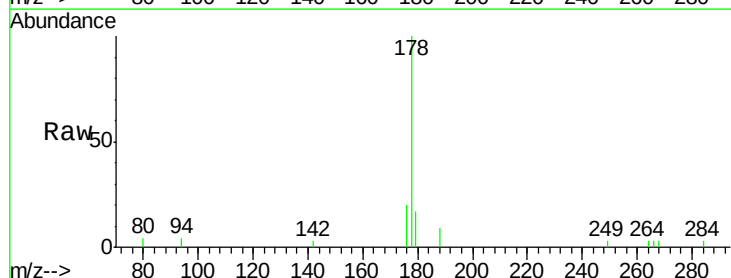
Tgt Ion:178 Resp: 2526

Ion Ratio Lower Upper

178 100

176 19.1 14.6 21.8

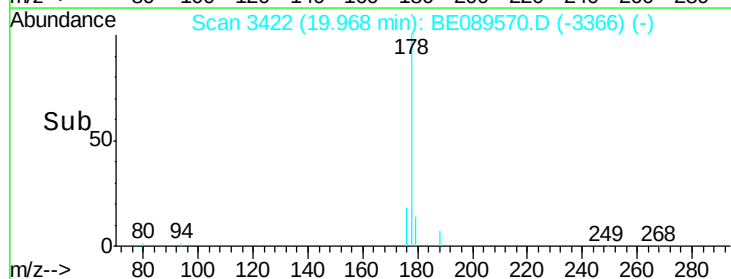
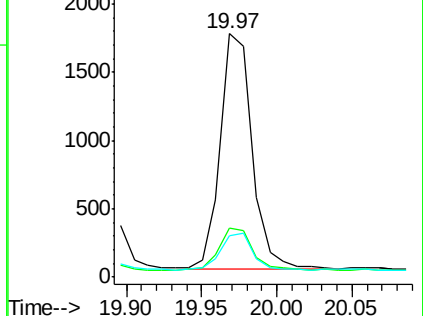
179 15.2 12.7 19.1

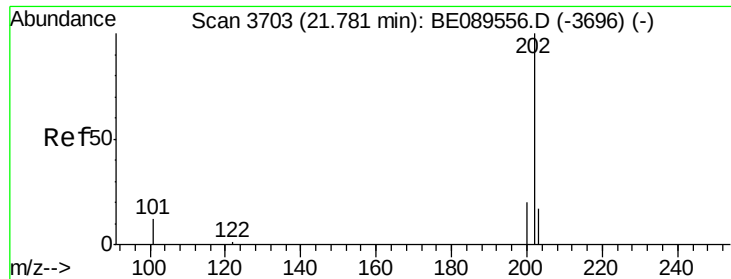


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

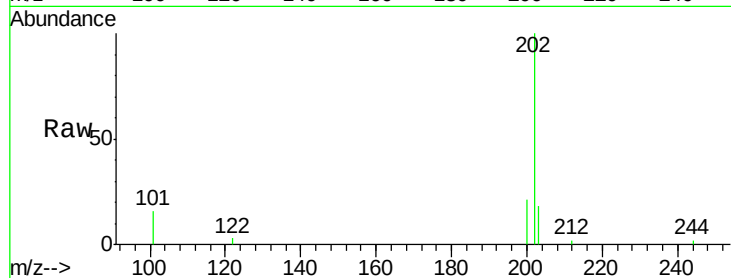




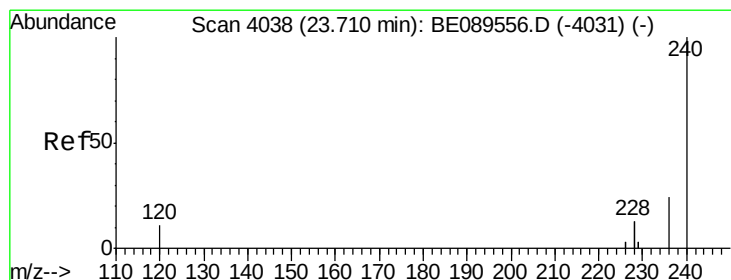
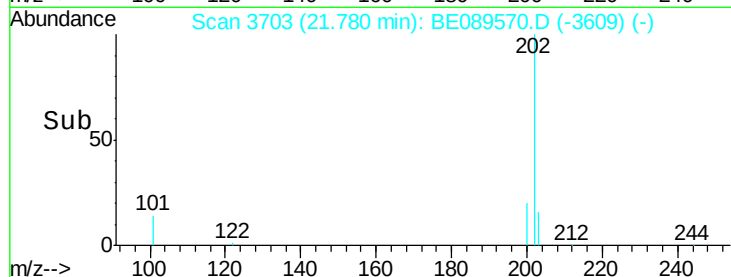
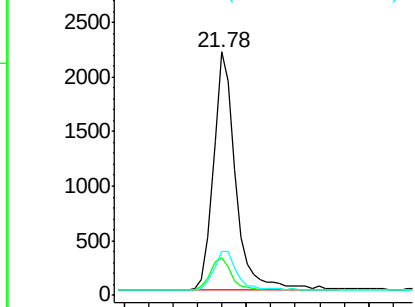
#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.78 min Scan# 3703
 Delta R.T. -0.00 min
 Lab File: BE089570.D
 Acq: 11 Feb 2015 6:49

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 2738
 Ion Ratio Lower Upper
 202 100
 101 12.7 10.4 15.6
 203 16.8 13.6 20.4

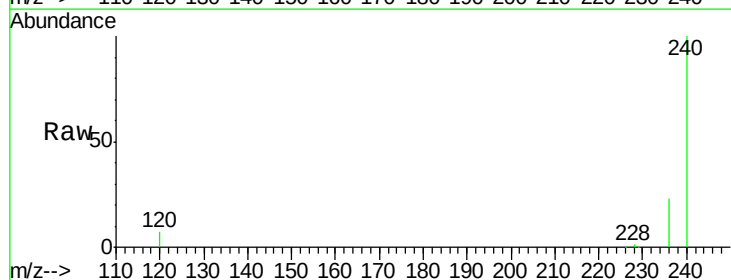


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

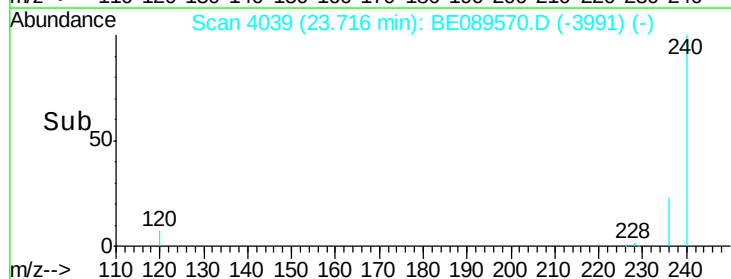
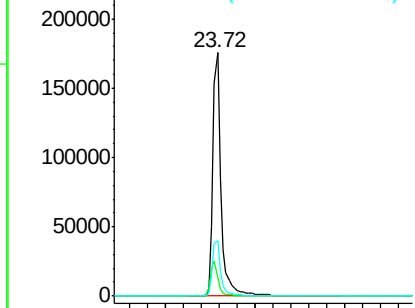


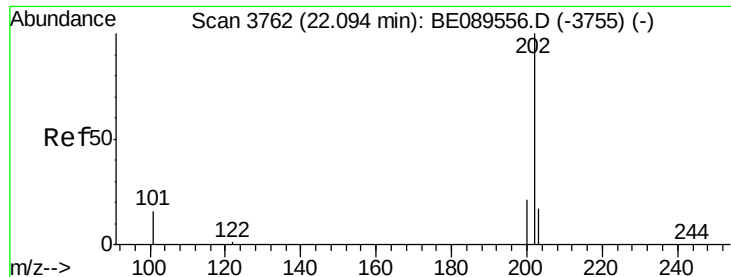
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4039
 Delta R.T. 0.01 min
 Lab File: BE089570.D
 Acq: 11 Feb 2015 6:49

Tgt Ion: 240 Resp: 220246
 Ion Ratio Lower Upper
 240 100
 120 7.4 9.3 13.9#
 236 22.8 19.3 28.9



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

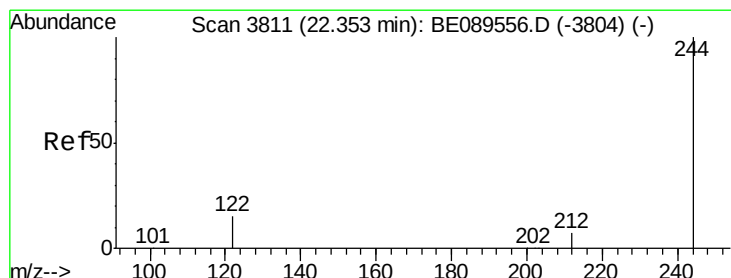
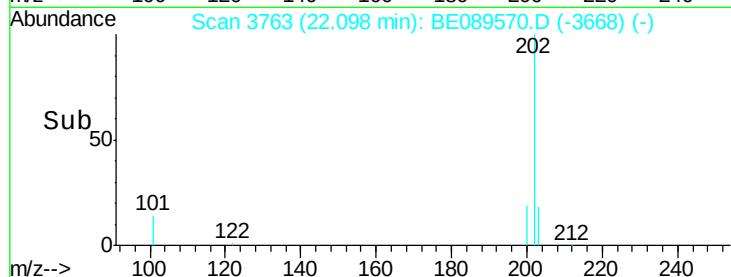
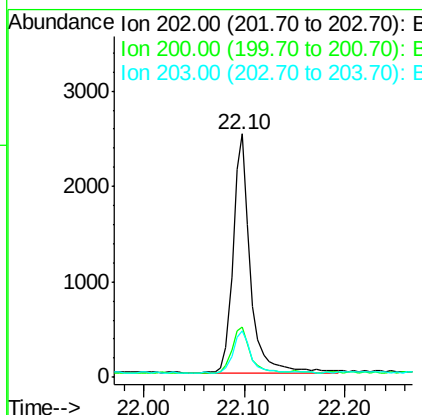
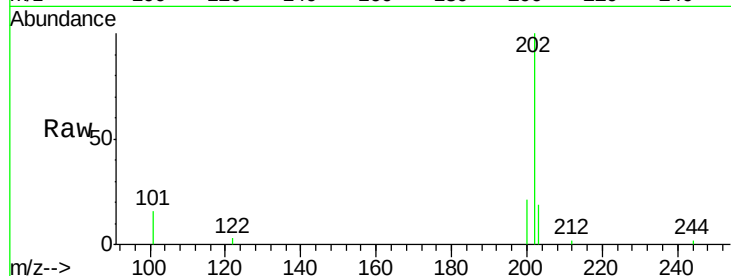




#17
 Pyrene
 Concen: 0.07 ng
 RT: 22.10 min Scan# 3763
 Delta R.T. 0.00 min
 Lab File: BE089570.D
 Acq: 11 Feb 2015 6:49

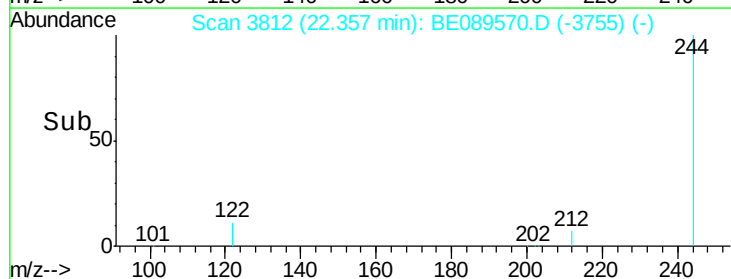
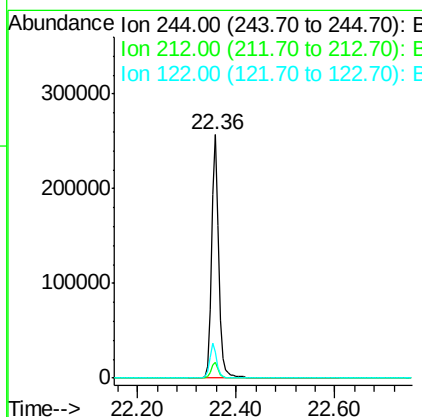
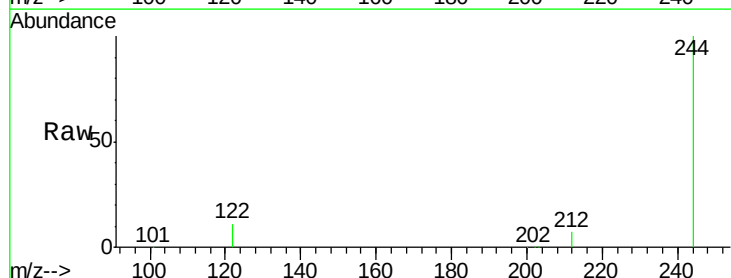
Instrument :
 BNA_E
 ClientSampleId :

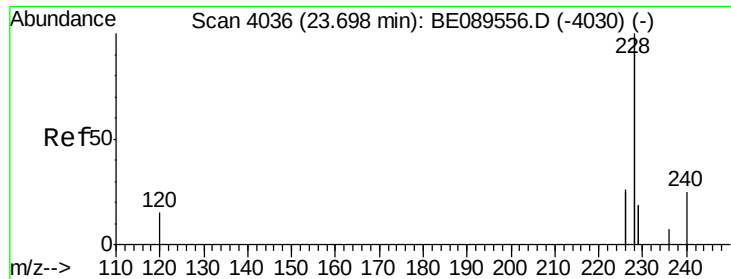
Tgt Ion: 202 Resp: 2970
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.6 24.8
 203 17.6 14.2 21.2



#18
 Terphenyl-d14
 Concen: 9.47 ng
 RT: 22.36 min Scan# 3812
 Delta R.T. 0.00 min
 Lab File: BE089570.D
 Acq: 11 Feb 2015 6:49

Tgt Ion: 244 Resp: 259842
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.9 8.9
 122 10.9 12.2 18.2#





#19

Benzo(a)anthracene

Concen: 0.07 ng

RT: 23.70 min Scan# 4037

Delta R.T. 0.01 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Instrument :

BNA_E

ClientSampleId :

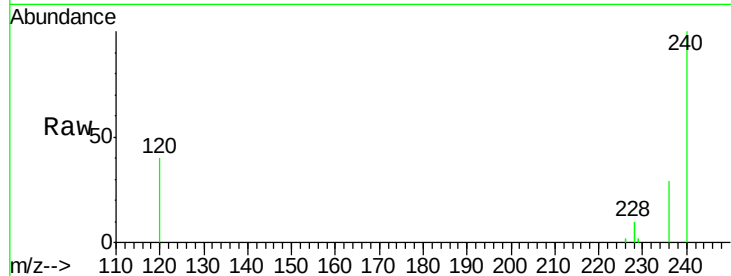
Tgt Ion:228 Resp: 12593

Ion Ratio Lower Upper

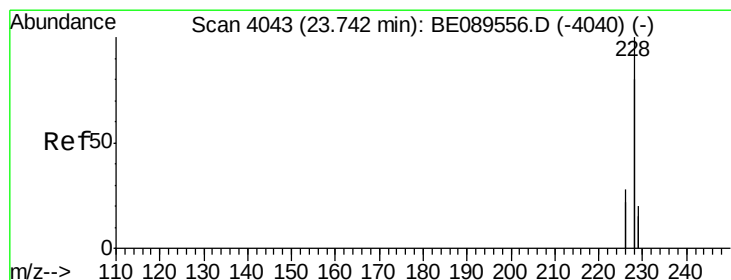
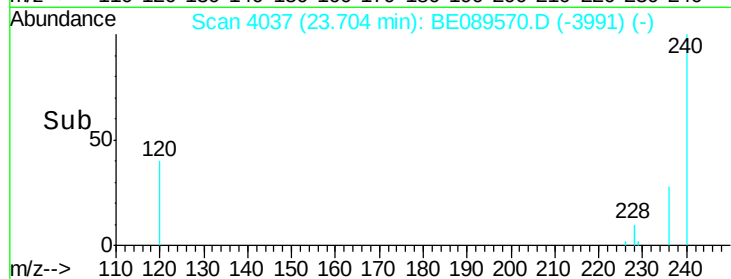
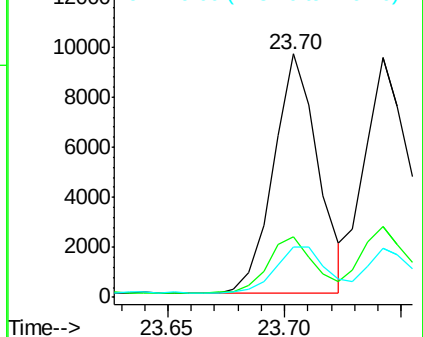
228 100

226 25.0 21.0 31.4

229 20.9 15.2 22.8



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: 0.08 ng

RT: 23.74 min Scan# 4043

Delta R.T. -0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

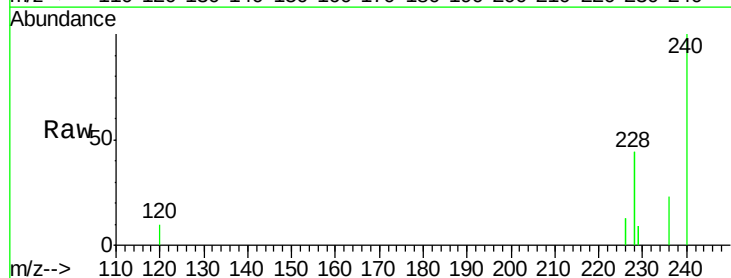
Tgt Ion:228 Resp: 17027

Ion Ratio Lower Upper

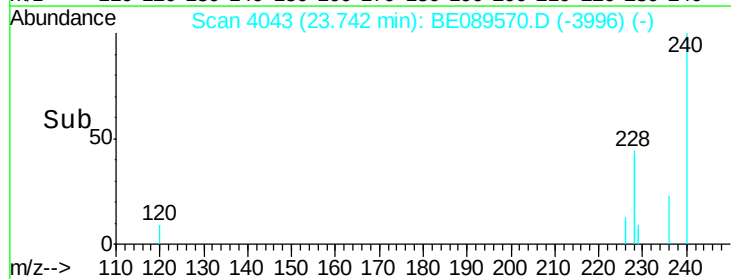
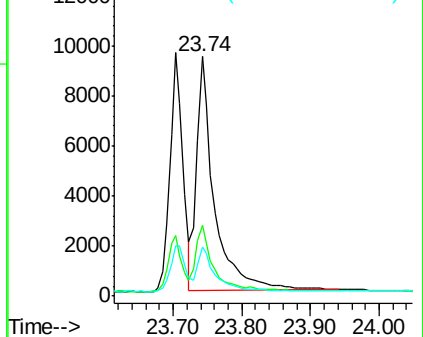
228 100

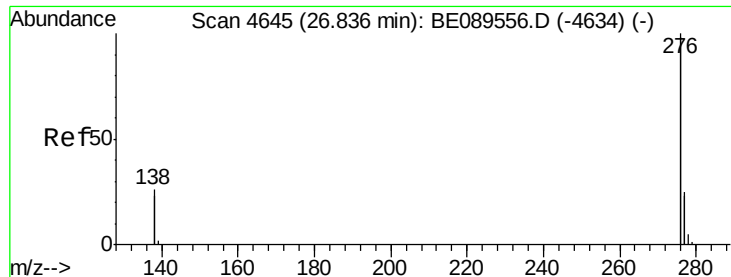
226 29.5 22.6 34.0

229 20.5 15.6 23.4



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: 0.05 ng

RT: 26.83 min Scan# 4644

Delta R.T. -0.01 min

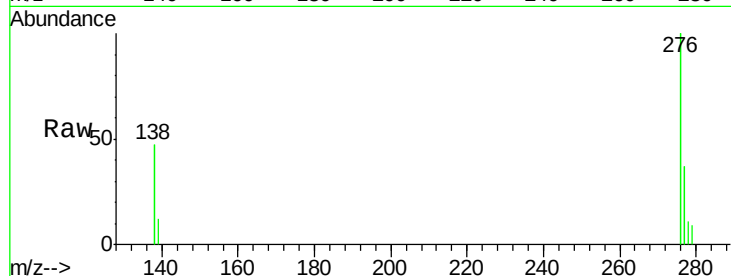
Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Instrument :

BNA_E

ClientSampleId :



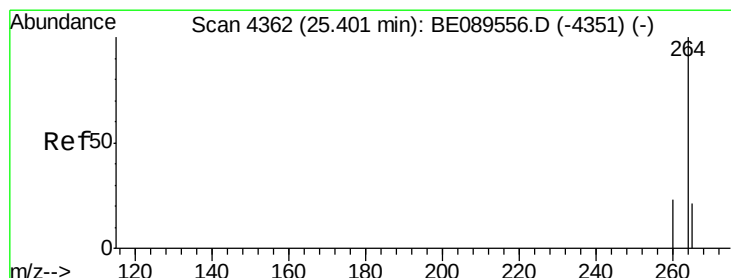
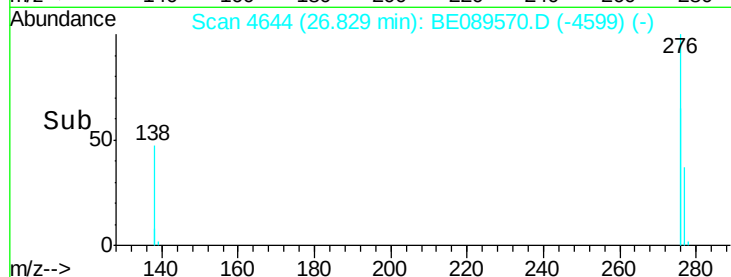
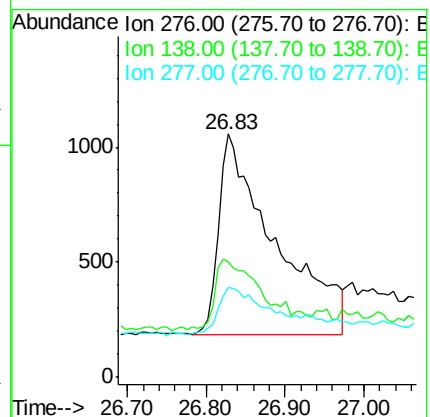
Tgt Ion: 276 Resp: 4278

Ion Ratio Lower Upper

276 100

138 29.9 20.2 30.4

277 20.0 19.6 29.4



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.40 min Scan# 4363

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

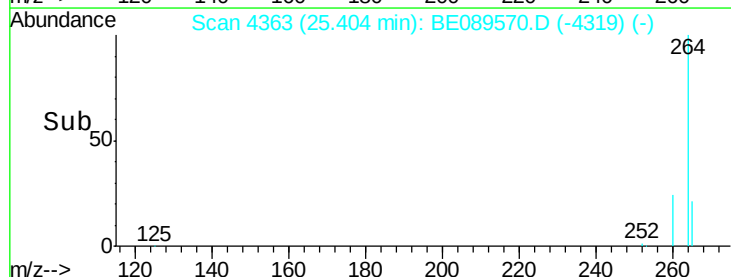
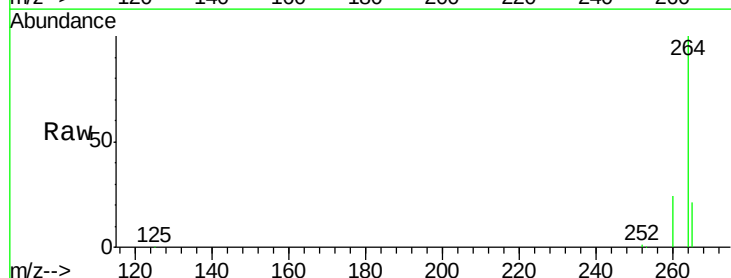
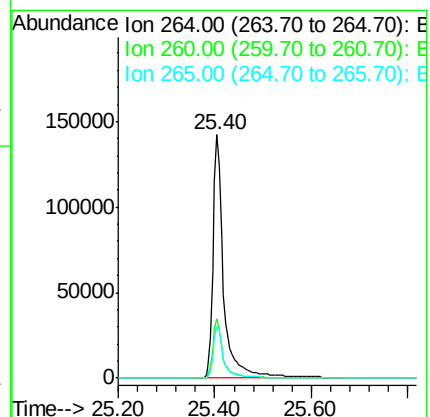
Tgt Ion: 264 Resp: 217548

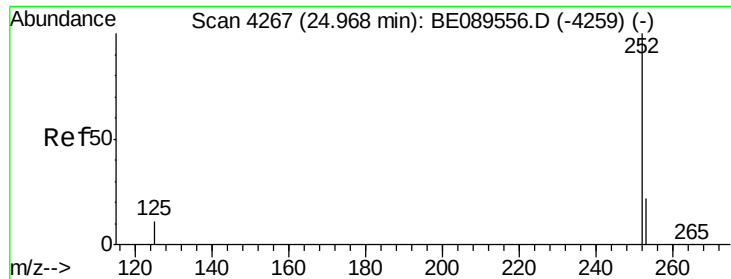
Ion Ratio Lower Upper

264 100

260 24.2 18.7 28.1

265 21.3 16.8 25.2





#23

Benzo(b)fluoranthene

Concen: 0.25 ng

RT: 24.97 min Scan# 4267

Delta R.T. -0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

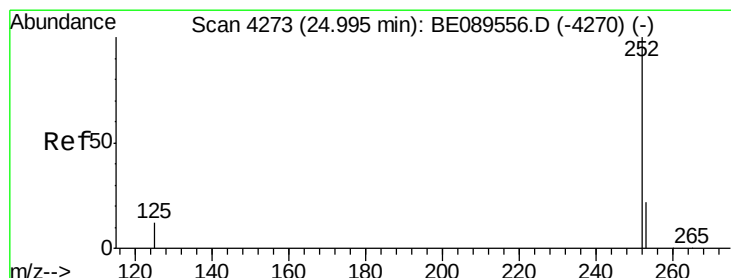
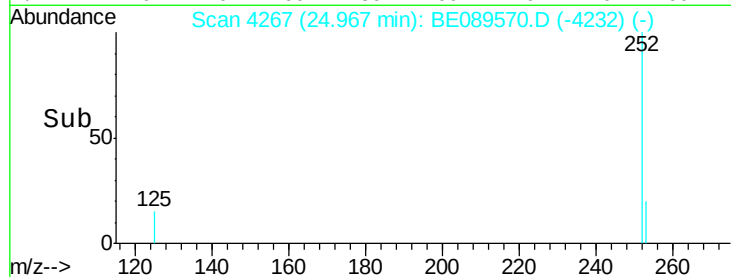
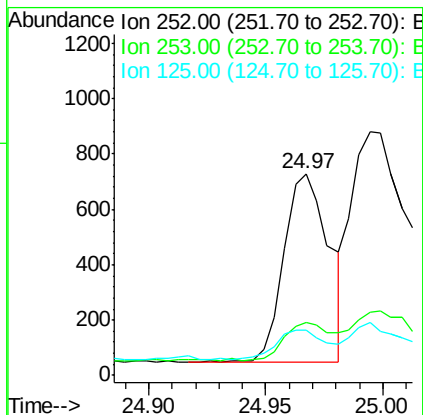
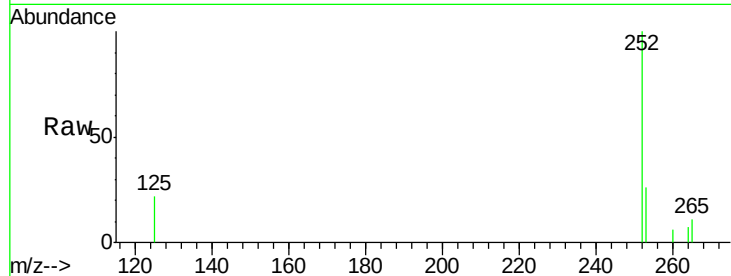
Instrument :

BNA_E

ClientSampled :

Tgt Ion:252 Resp: 924

Ion	Ratio	Lower	Upper
252	100		
253	26.3	17.8	26.8
125	22.5	9.3	13.9#



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 24.99 min Scan# 4273

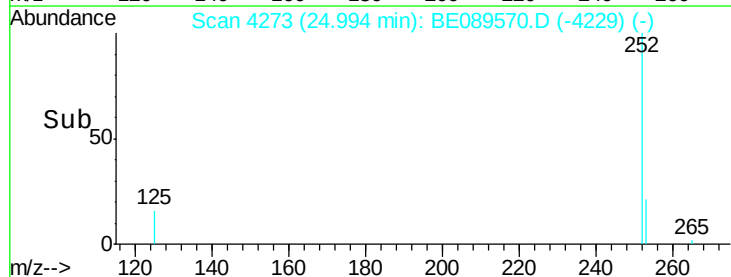
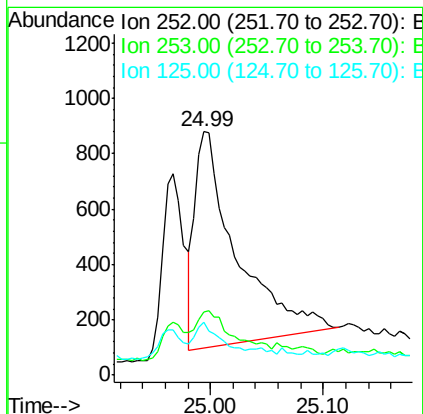
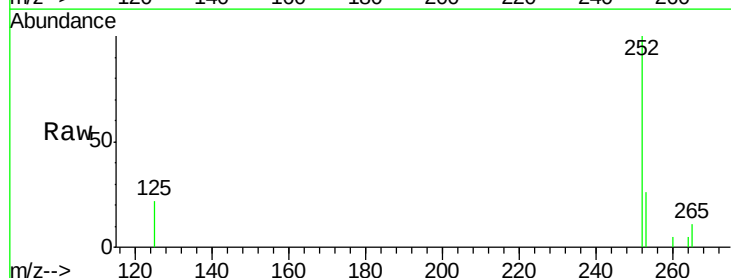
Delta R.T. -0.00 min

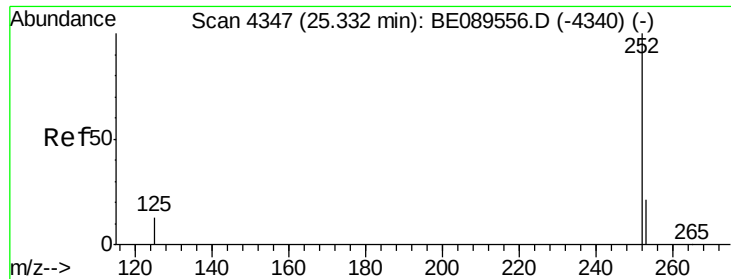
Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Tgt Ion:252 Resp: 2018

Ion	Ratio	Lower	Upper
252	100		
253	26.1	17.5	26.3
125	21.9	9.6	14.4#





#25

Benzo(a)pyrene

Concen: 0.21 ng

RT: 25.34 min Scan# 4348

Delta R.T. 0.00 min

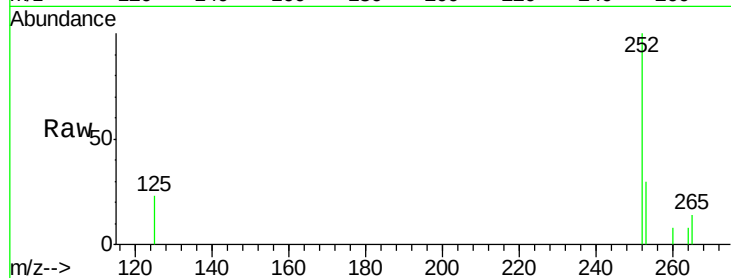
Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

Instrument :

BNA_E

ClientSampleId :



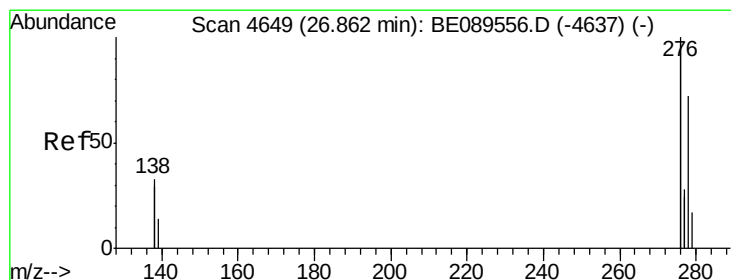
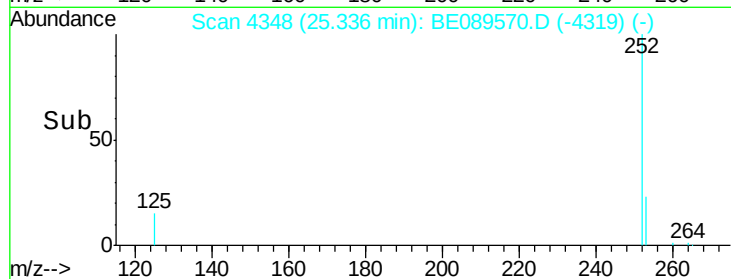
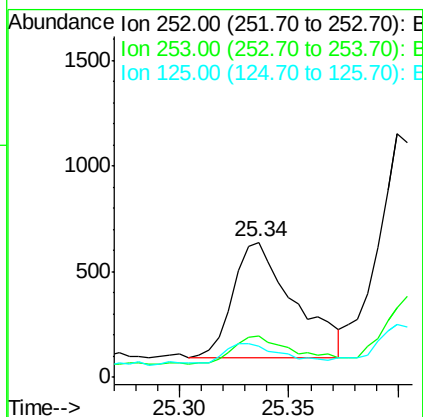
Tgt Ion:252 Resp: 1060

Ion Ratio Lower Upper

252 100

253 30.2 17.4 26.0#

125 22.5 11.1 16.7#



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 26.86 min Scan# 4649

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 11 Feb 2015 6:49

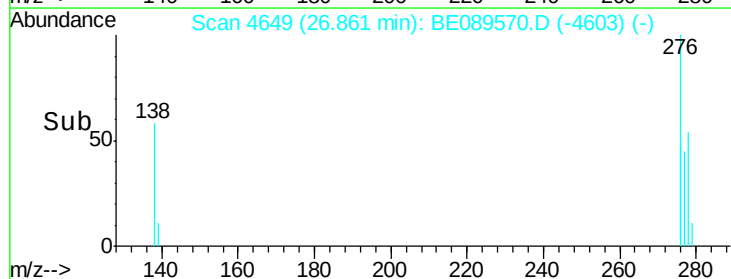
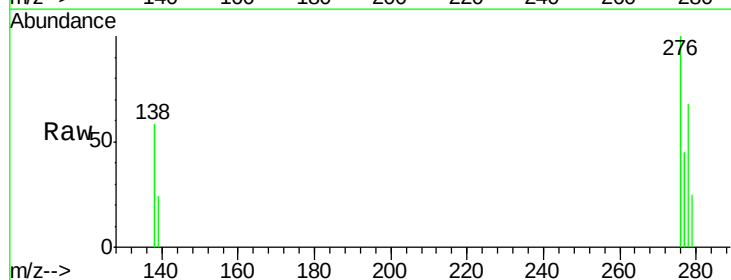
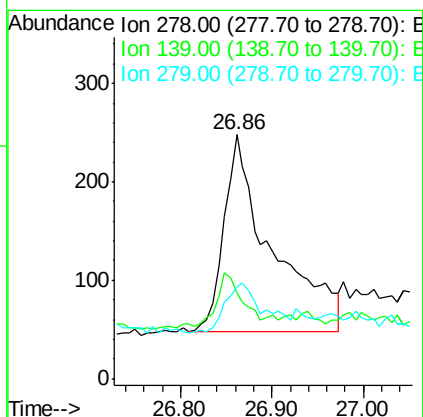
Tgt Ion:278 Resp: 728

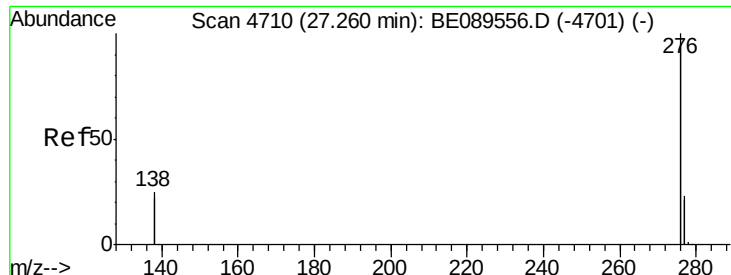
Ion Ratio Lower Upper

278 100

139 35.1 16.1 24.1#

279 37.5 19.6 29.4#

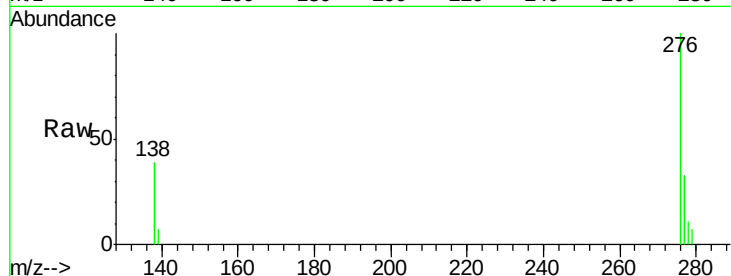




#27
 Benzo(g,h,i)perylene
 Concen: 0.03 ng
 RT: 27.26 min Scan# 4710
 Delta R.T. -0.00 min
 Lab File: BE089570.D
 Acq: 11 Feb 2015 6:49

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 5525
 Ion Ratio Lower Upper
 276 100
 277 33.3 18.7 28.1#
 138 39.3 19.7 29.5#



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

