

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089569.D
 Acq On : 7 Feb 2015 21:45
 Operator : TP/IZ
 Sample : MDL-07-W
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:22:54 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	39033	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	169431	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	93280	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	153135	5.00	ng	0.00
16) Chrysene-d12	23.72	240	124807	5.00	ng	0.00
22) Perylene-d12	25.41	264	110361	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	98145	8.72	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	190294	7.65	ng	0.00
18) Terphenyl-d14	22.36	244	178202	10.82	ng	0.00

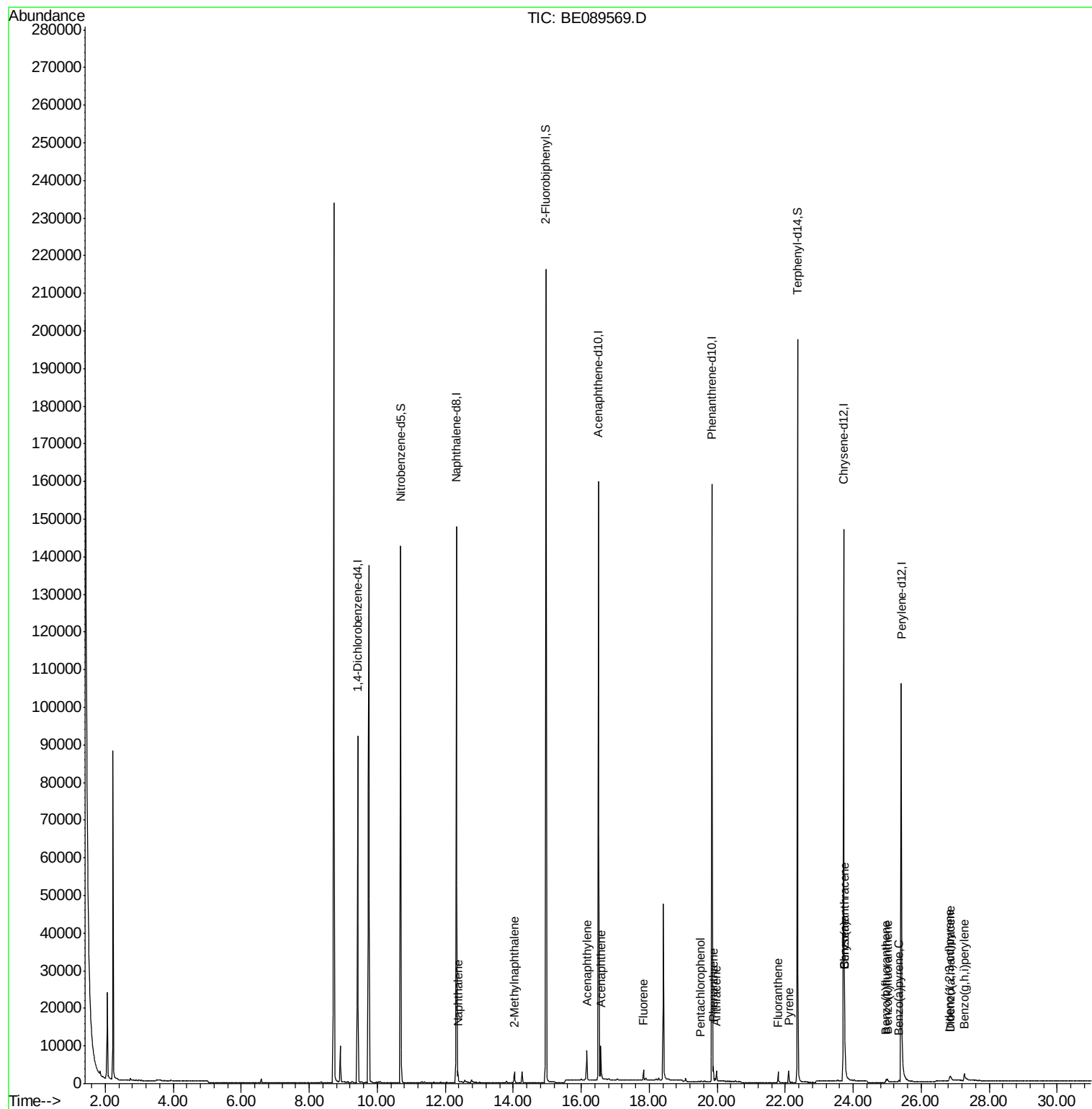
Target Compounds						Qvalue
4) Naphthalene	12.37	128	3191	0.08	ng	95
5) 2-Methylnaphthalene	14.03	142	1856	0.09	ng	94
8) Acenaphthylene	16.16	152	9771	0.06	ng	100
9) Acenaphthene	16.59	154	1797	0.07	ng	95
10) Fluorene	17.83	166	1841	0.07	ng	98
12) Pentachlorophenol	19.52	266	61	0.58	ng	# 90
13) Phenanthrene	19.89	178	3152	0.08	ng	99
14) Anthracene	19.98	178	2422	0.08	ng	99
15) Fluoranthene	21.79	202	2229	0.06	ng	98
17) Pyrene	22.10	202	2274	0.09	ng	98
19) Benzo(a)anthracene	23.75	228	10016	0.09	ng	94
20) Chrysene	23.75	228	10016	0.09	ng	97
21) Indeno(1,2,3-cd)pyrene	26.84	276	3039	0.02	ng	98
23) Benzo(b)fluoranthene	24.97	252	760	0.04	ng	# 80
24) Benzo(k)fluoranthene	25.00	252	1500	0.06	ng	# 86
25) Benzo(a)pyrene	25.34	252	860	0.04	ng	# 81
26) Dibenzo(a,h)anthracene	26.87	278	550	0.02	ng	# 63
27) Benzo(g,h,i)perylene	27.27	276	3928	0.04	ng	# 78

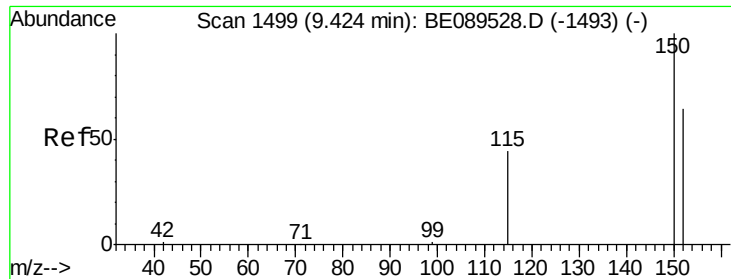
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampled :

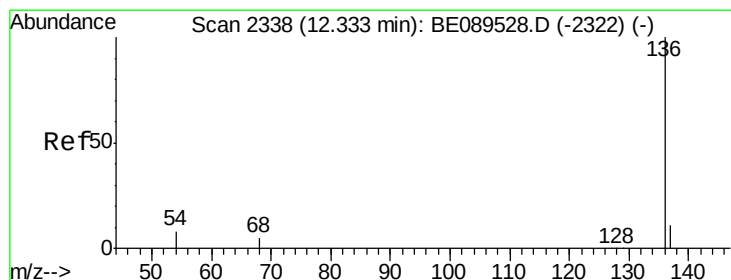
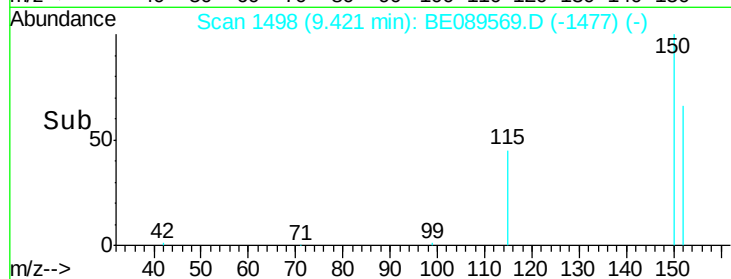
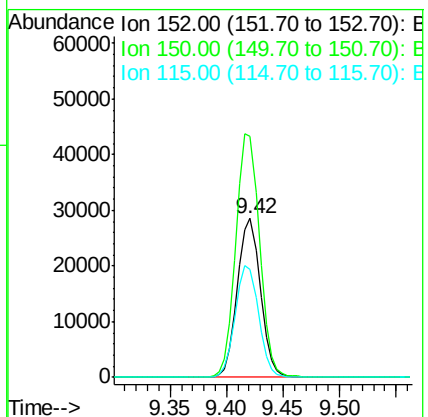
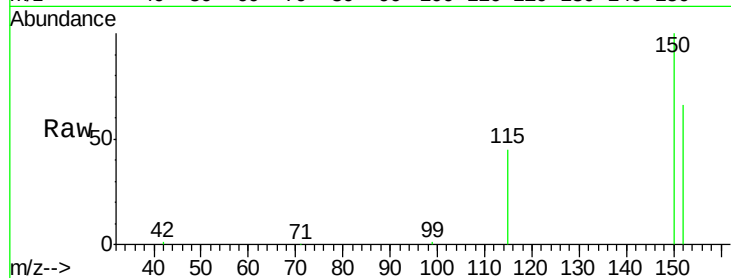
Tgt Ion:152 Resp: 39033

Ion Ratio Lower Upper

152 100

150 152.5 125.7 188.5

115 68.1 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2338

Delta R.T. -0.00 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

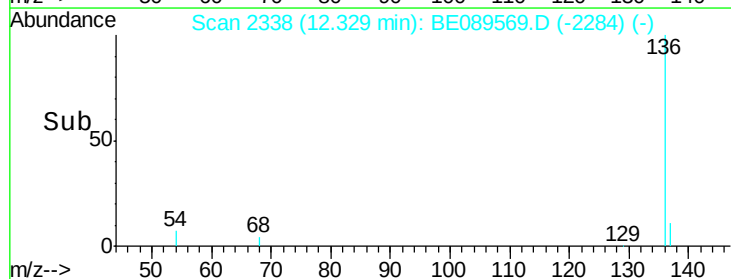
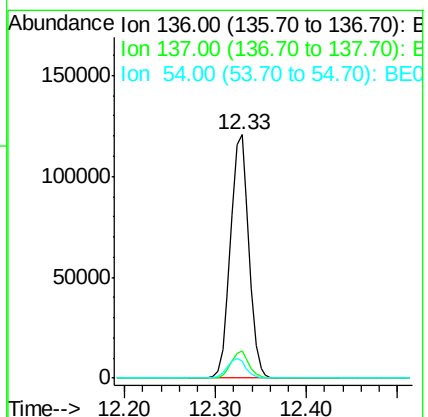
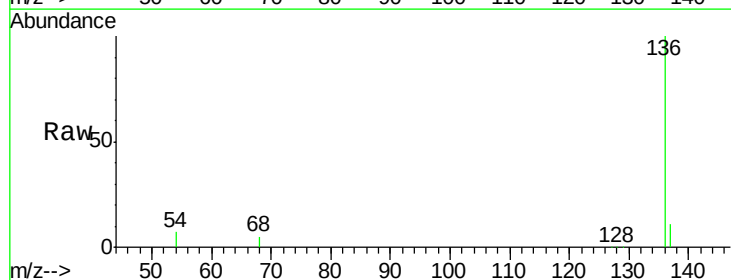
Tgt Ion:136 Resp: 169431

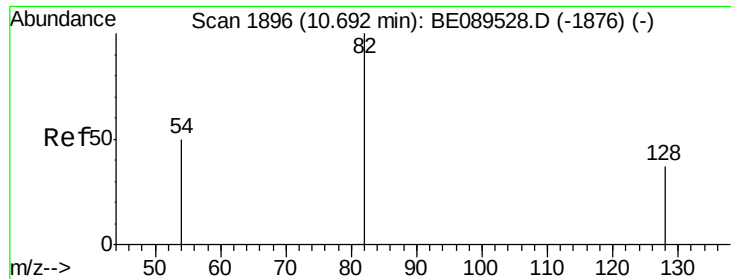
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 6.9 6.1 9.1





#3

Nitrobenzene-d5

Concen: 8.72 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

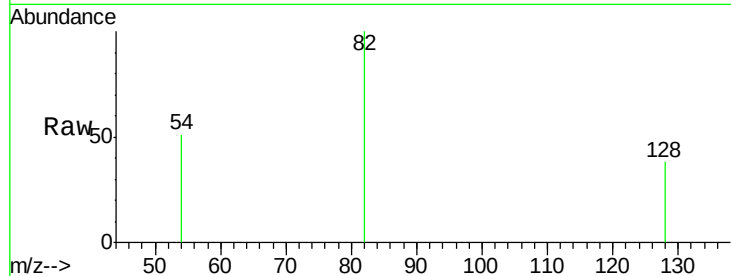
Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :



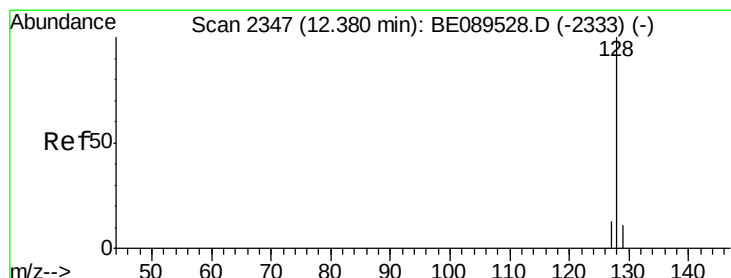
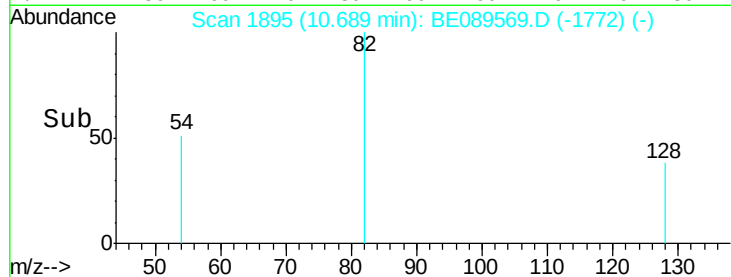
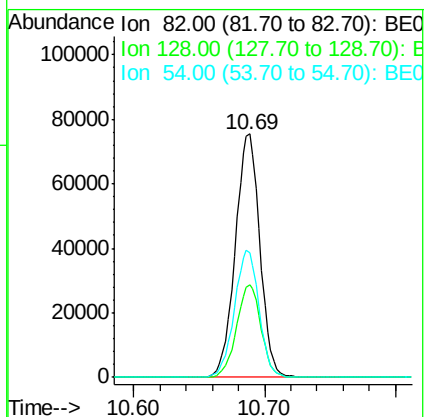
Tgt Ion: 82 Resp: 98145

Ion Ratio Lower Upper

82 100

128 38.3 30.2 45.4

54 51.0 40.6 60.8



#4

Naphthalene

Concen: 0.08 ng

RT: 12.37 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

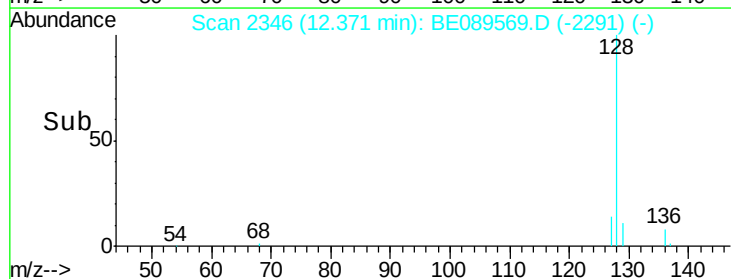
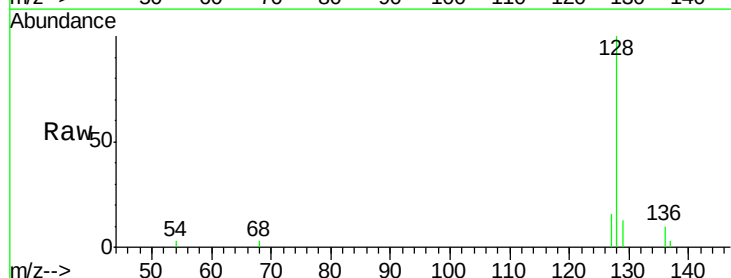
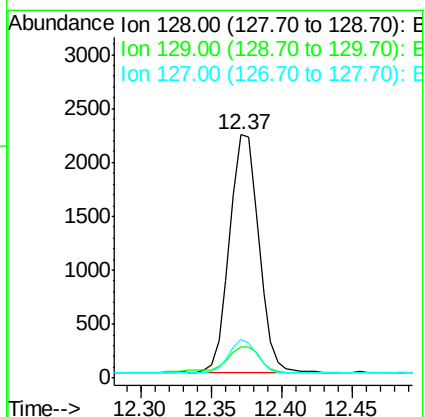
Tgt Ion: 128 Resp: 3191

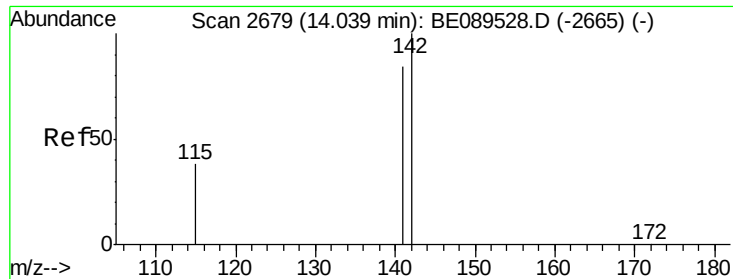
Ion Ratio Lower Upper

128 100

129 12.8 9.1 13.7

127 15.7 10.5 15.7





#5

2-Methylnaphthalene

Concen: 0.09 ng

RT: 14.03 min Scan# 2679

Delta R.T. -0.01 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :

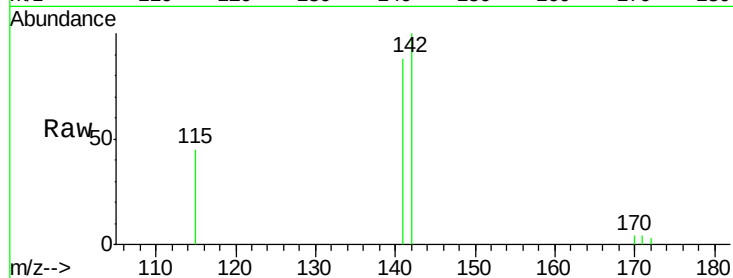
Tgt Ion:142 Resp: 1856

Ion Ratio Lower Upper

142 100

141 87.6 67.0 100.6

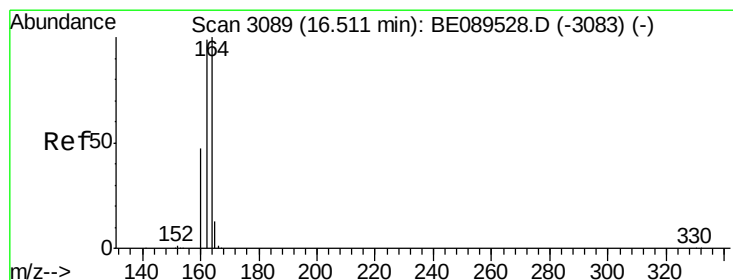
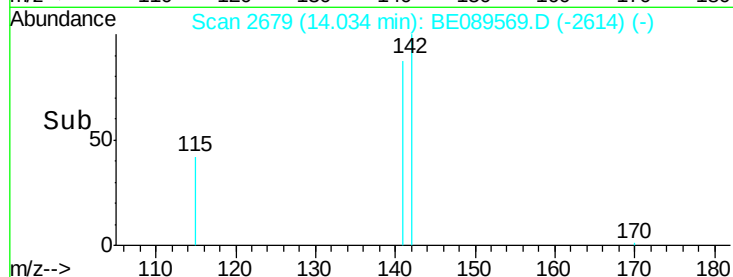
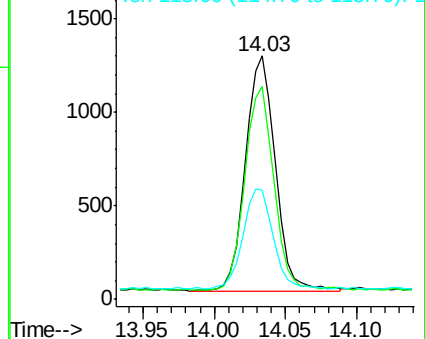
115 44.8 30.6 45.8



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: 16.51 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

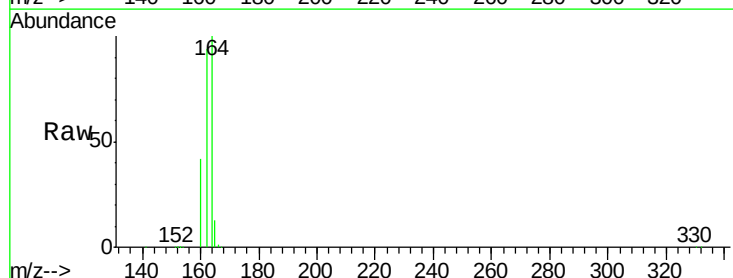
Tgt Ion:164 Resp: 93280

Ion Ratio Lower Upper

164 100

162 94.0 79.5 119.3

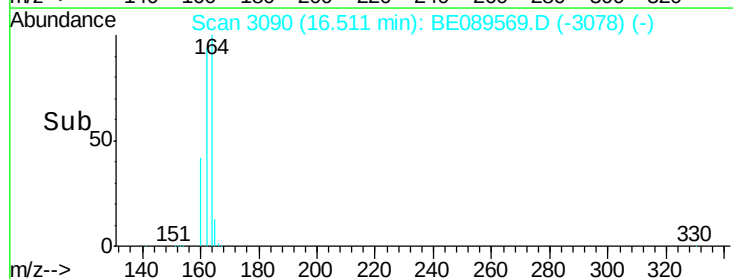
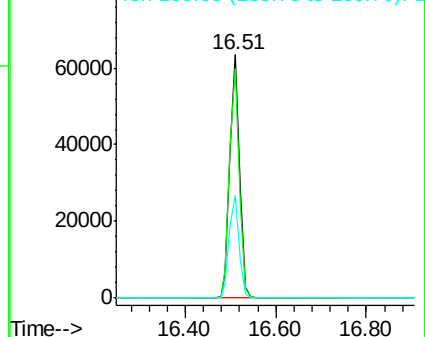
160 42.2 37.6 56.4

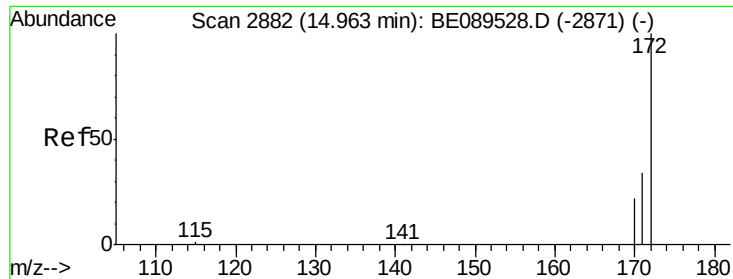


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.65 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :

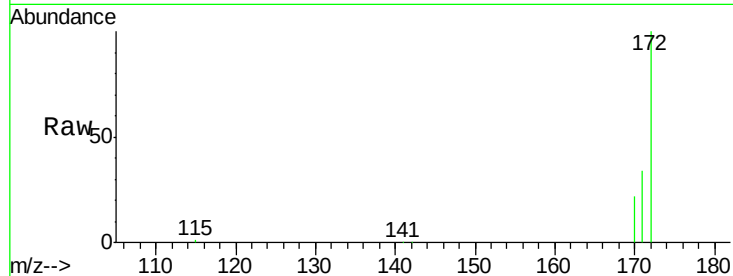
Tgt Ion:172 Resp: 190294

Ion Ratio Lower Upper

172 100

171 34.0 27.7 41.5

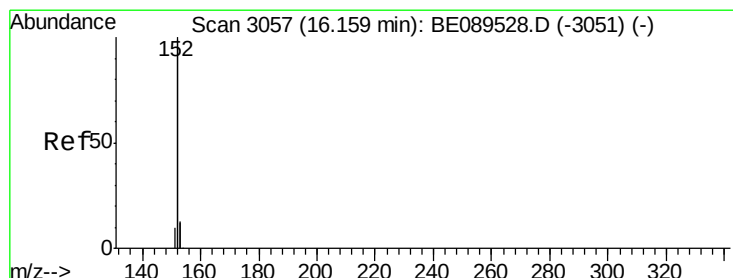
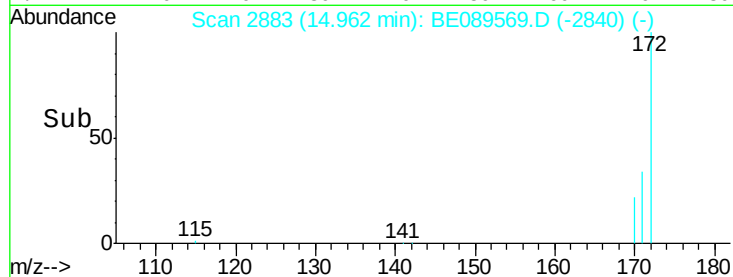
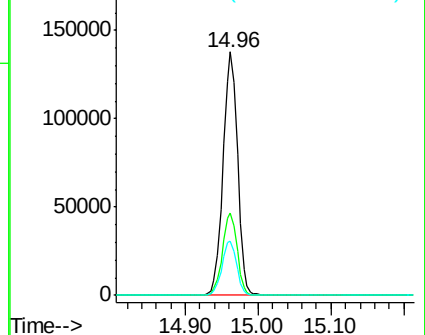
170 22.3 18.3 27.5



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: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

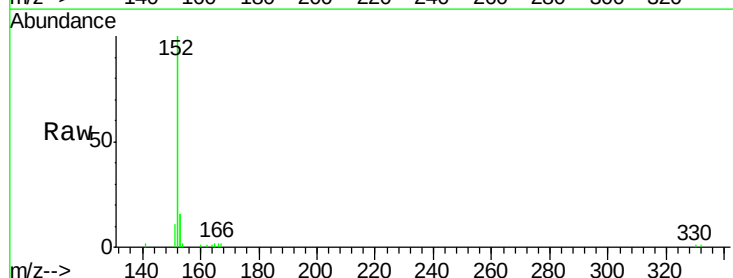
Tgt Ion:152 Resp: 9771

Ion Ratio Lower Upper

152 100

151 5.0 4.0 6.0

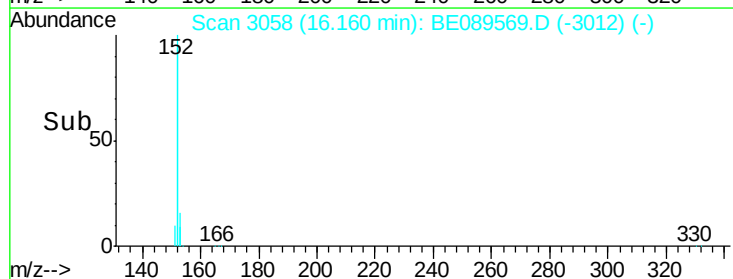
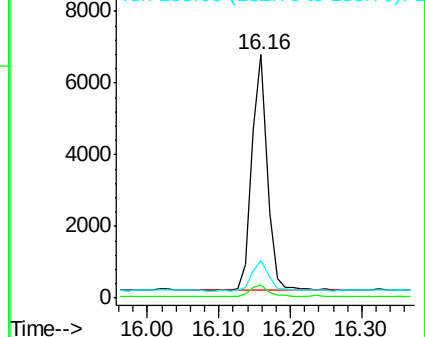
153 13.3 10.6 15.8

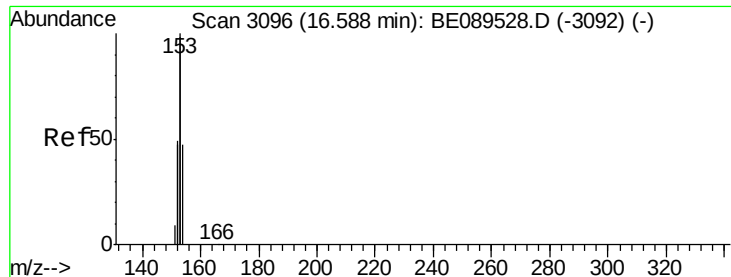


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.07 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :

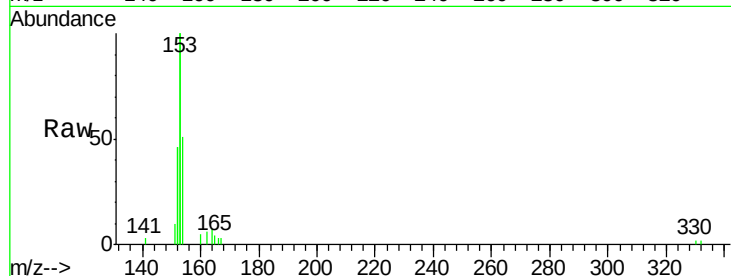
Tgt Ion:154 Resp: 1797

Ion Ratio Lower Upper

154 100

153 433.1 340.8 511.2

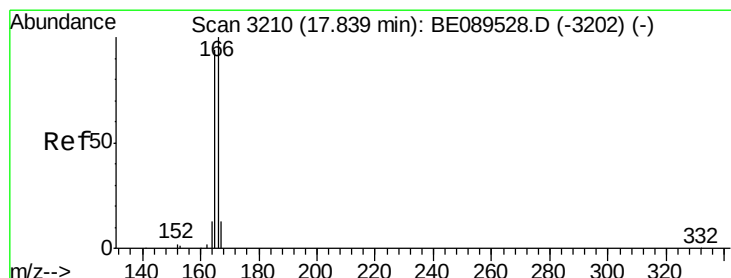
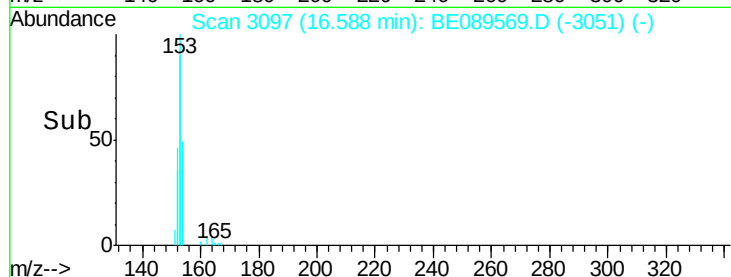
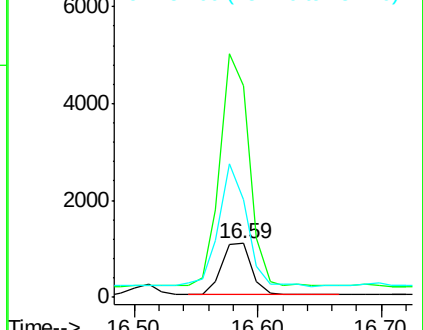
152 223.5 165.5 248.3



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: 0.07 ng

RT: 17.83 min Scan# 3210

Delta R.T. -0.01 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

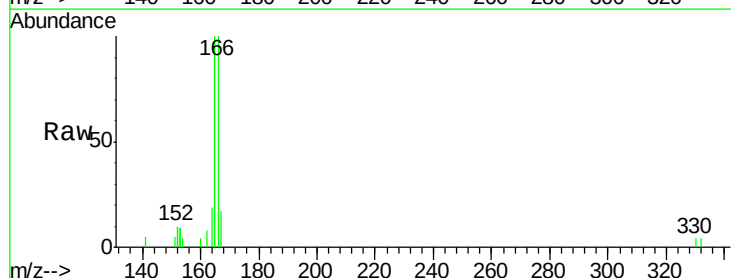
Tgt Ion:166 Resp: 1841

Ion Ratio Lower Upper

166 100

165 95.9 75.5 113.3

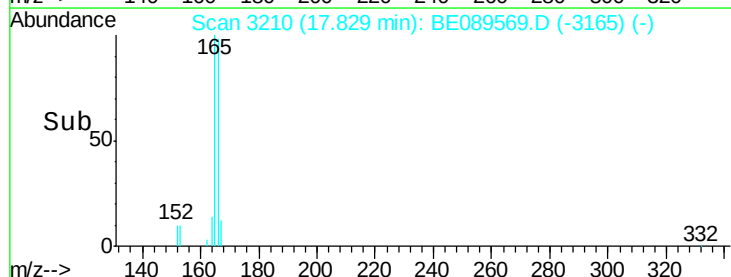
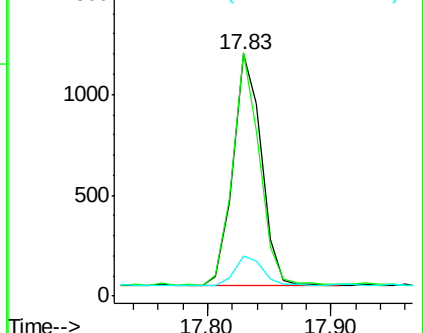
167 13.1 10.9 16.3

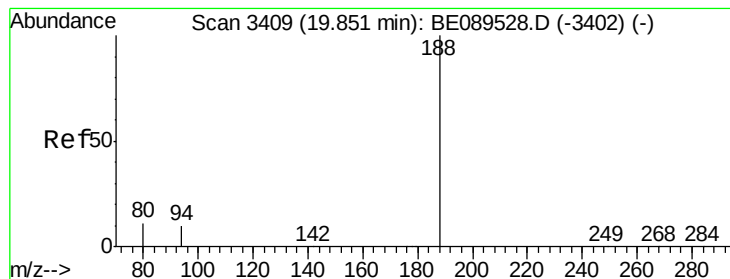


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :

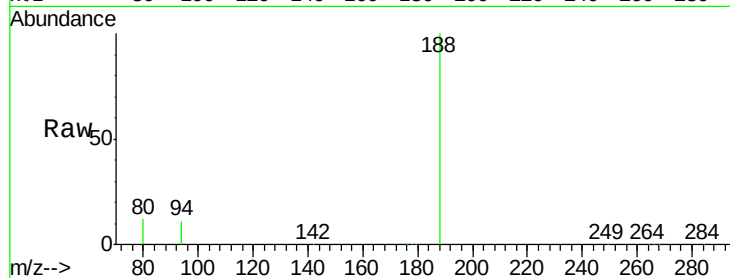
Tgt Ion:188 Resp: 153135

Ion Ratio Lower Upper

188 100

94 11.0 8.4 12.6

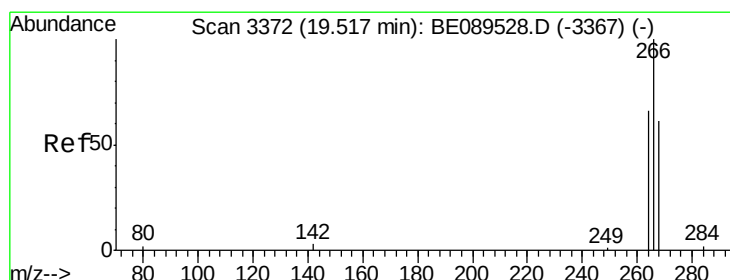
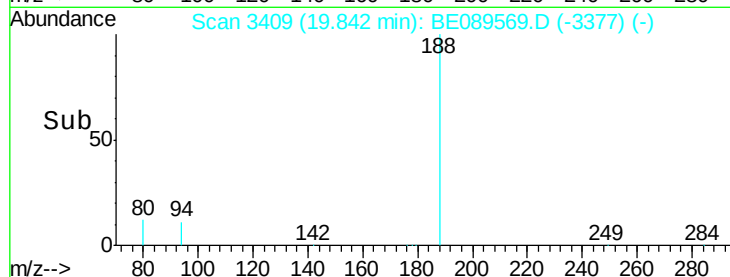
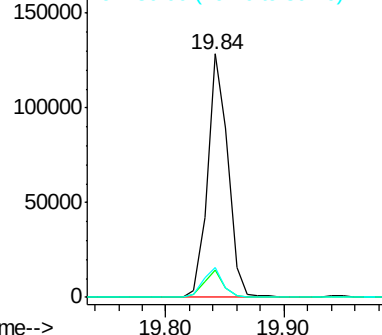
80 12.2 8.6 12.8



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: 0.58 ng

RT: 19.52 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

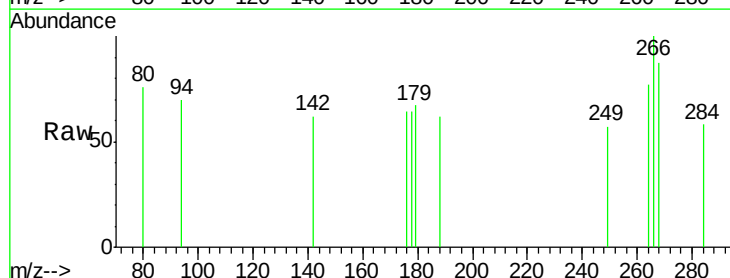
Tgt Ion:266 Resp: 61

Ion Ratio Lower Upper

266 100

268 86.9 57.9 86.9#

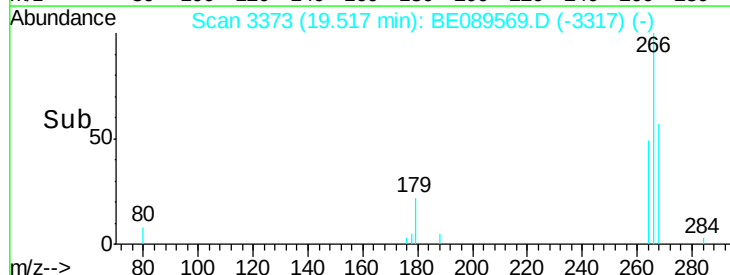
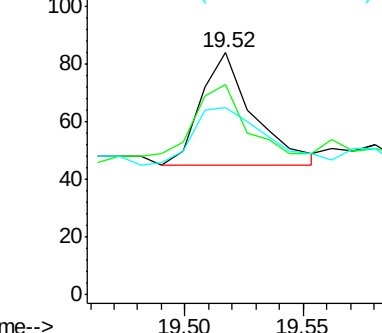
264 77.4 60.2 90.4

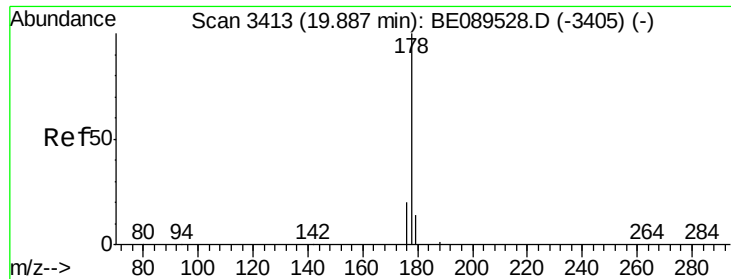


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

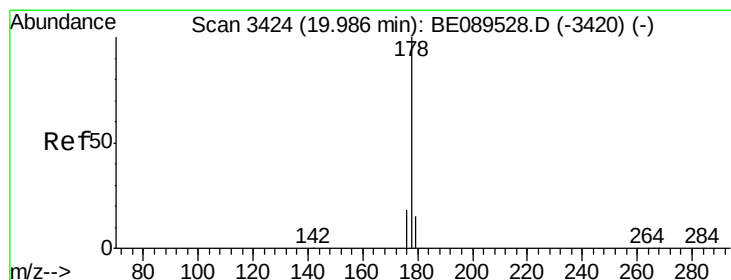
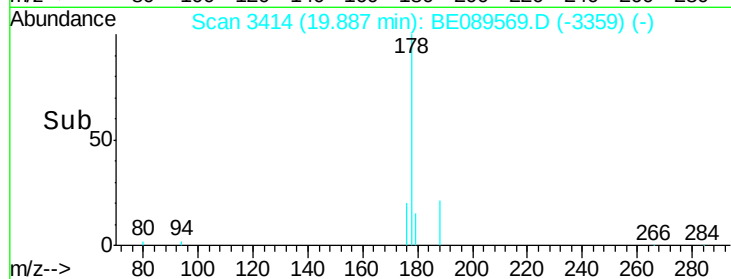
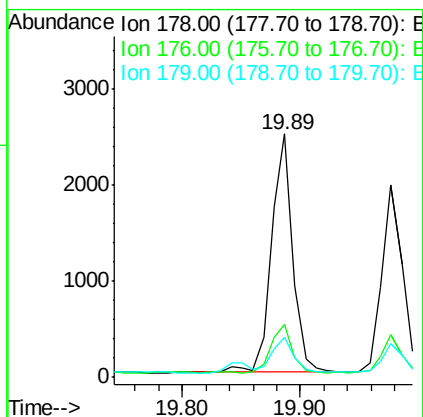
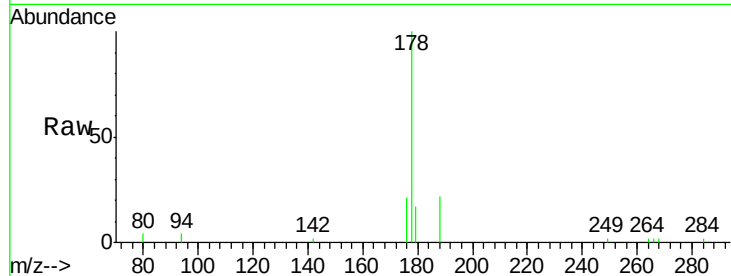




#13
Phenanthrene
Concen: 0.08 ng
RT: 19.89 min Scan# 3414
Delta R.T. 0.00 min
Lab File: BE089569.D
Acq: 7 Feb 2015 21:45

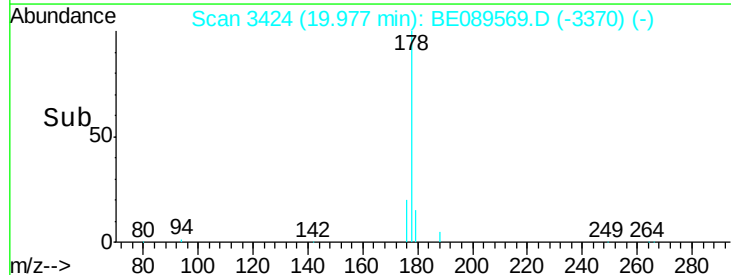
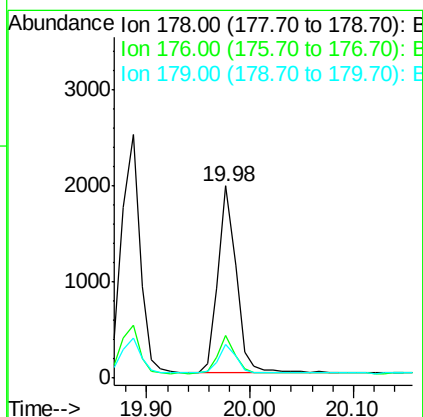
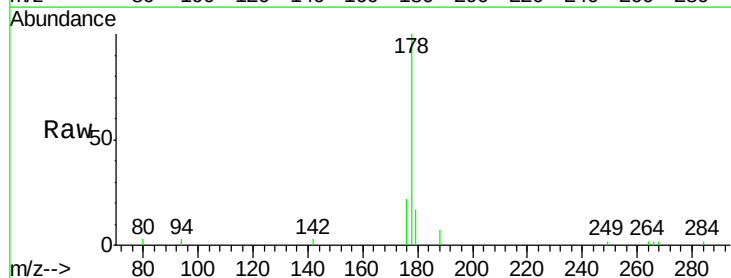
Instrument :
BNA_E
ClientSampleId :

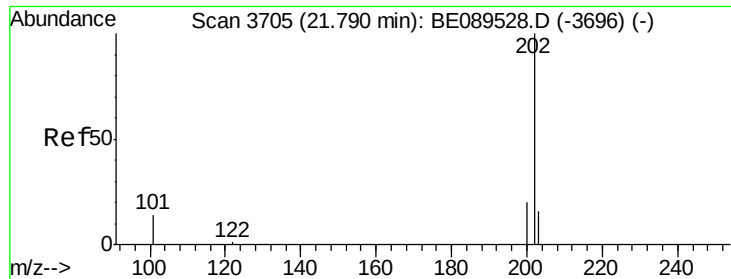
Tgt Ion:178 Resp: 3152
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.5 12.2 18.2



#14
Anthracene
Concen: 0.08 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089569.D
Acq: 7 Feb 2015 21:45

Tgt Ion:178 Resp: 2422
Ion Ratio Lower Upper
178 100
176 18.6 14.5 21.7
179 15.7 12.2 18.2

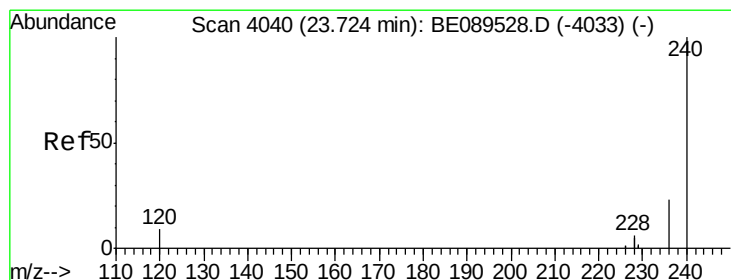
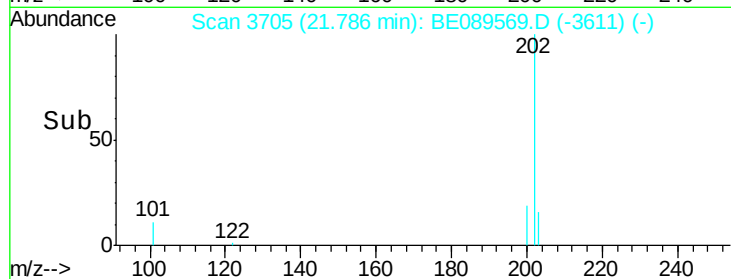
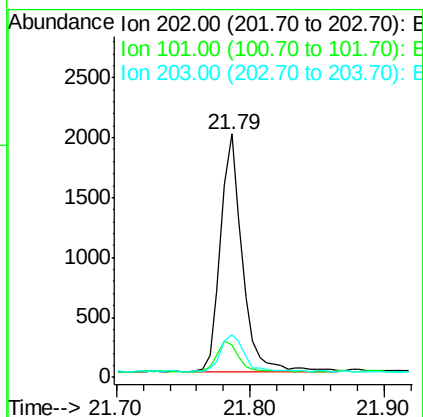
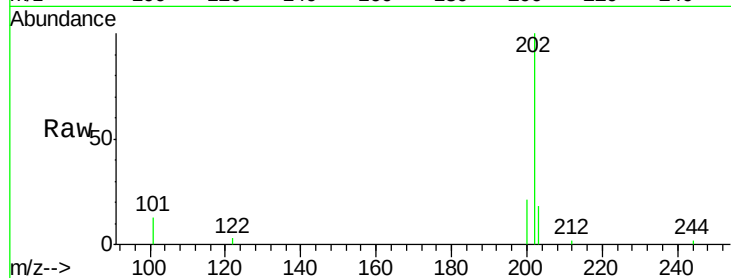




#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.79 min Scan# 3705
 Delta R.T. -0.00 min
 Lab File: BE089569.D
 Acq: 7 Feb 2015 21:45

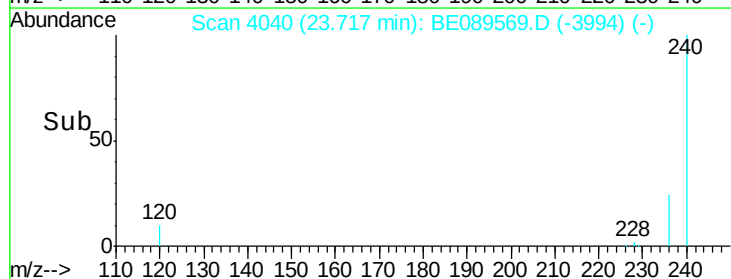
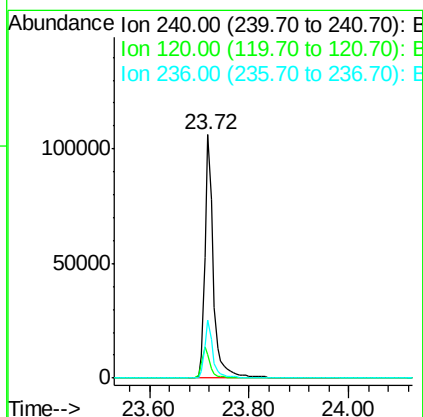
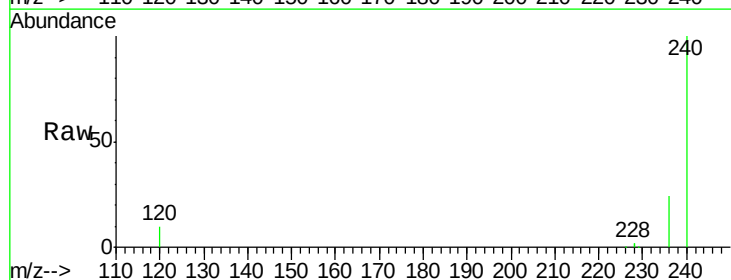
Instrument :
 BNA_E
 ClientSampled :

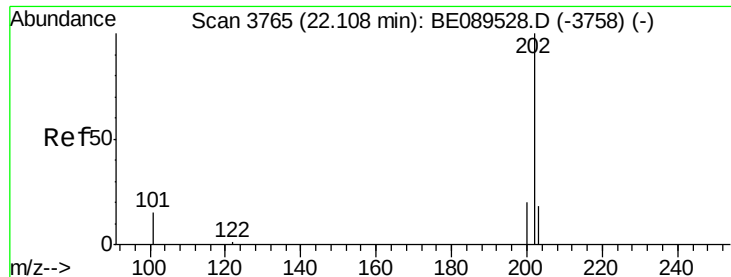
Tgt Ion:202 Resp: 2229
 Ion Ratio Lower Upper
 202 100
 101 12.4 11.6 17.4
 203 16.9 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.01 min
 Lab File: BE089569.D
 Acq: 7 Feb 2015 21:45

Tgt Ion:240 Resp: 124807
 Ion Ratio Lower Upper
 240 100
 120 9.9 7.2 10.8
 236 23.9 18.5 27.7

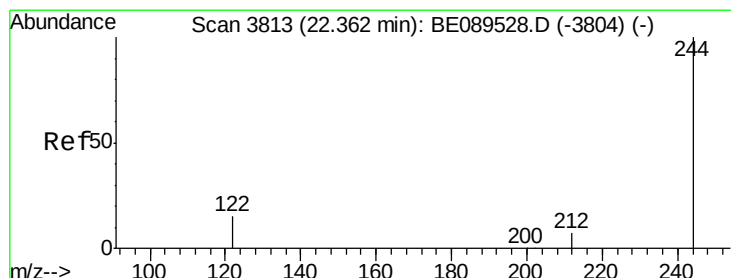
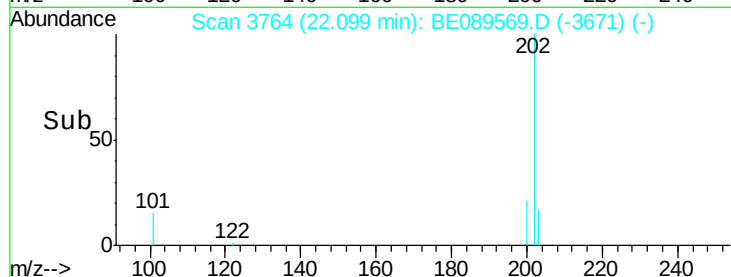
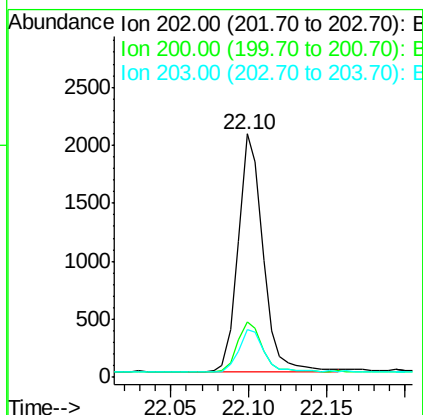
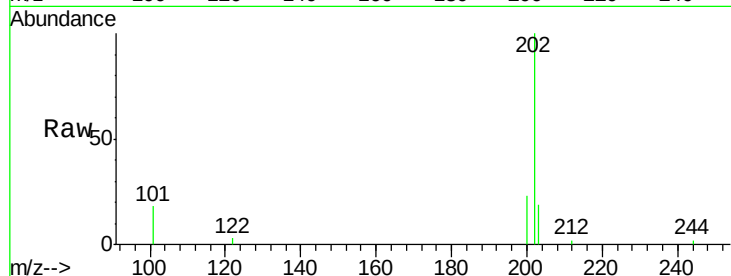




#17
 Pyrene
 Concen: 0.09 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. -0.01 min
 Lab File: BE089569.D
 Acq: 7 Feb 2015 21:45

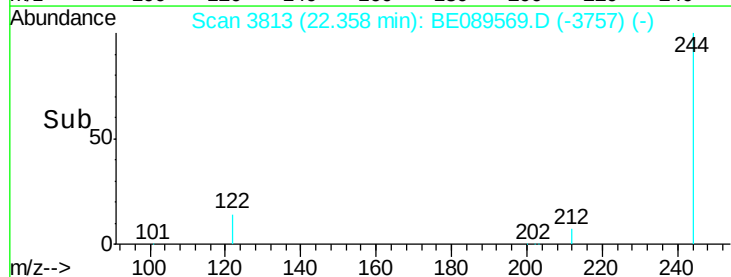
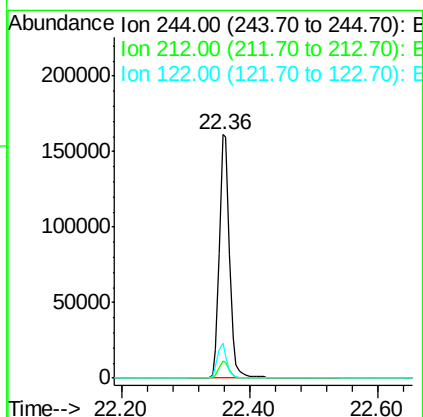
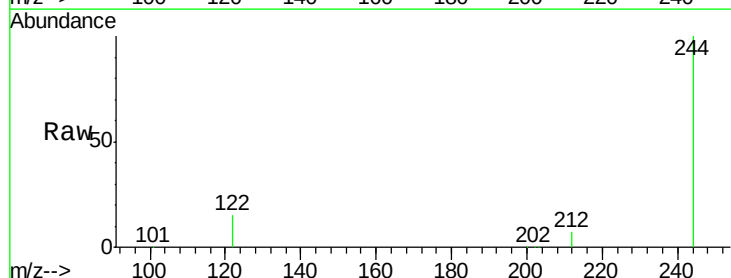
Instrument :
 BNA_E
 ClientSampleId :

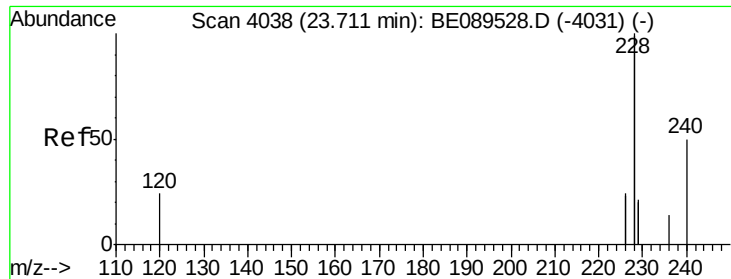
Tgt Ion: 202 Resp: 2274
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.3 24.5
 203 18.3 13.5 20.3



#18
 Terphenyl-d14
 Concen: 10.82 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. -0.00 min
 Lab File: BE089569.D
 Acq: 7 Feb 2015 21:45

Tgt Ion: 244 Resp: 178202
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.8 8.8
 122 14.5 12.6 19.0





#19

Benzo(a)anthracene

Concen: 0.09 ng

RT: 23.75 min Scan# 4045

Delta R.T. 0.04 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :

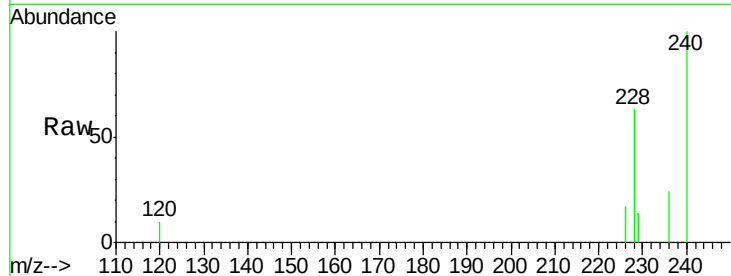
Tgt Ion:228 Resp: 10016

Ion Ratio Lower Upper

228 100

226 27.6 19.0 28.4

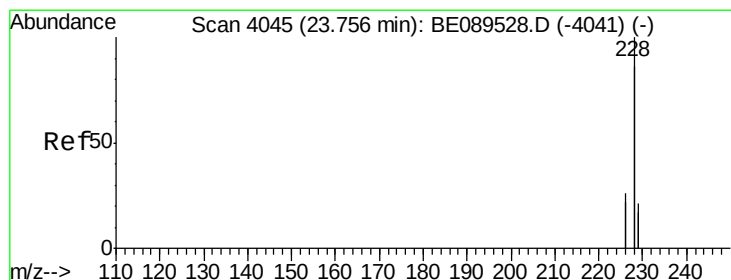
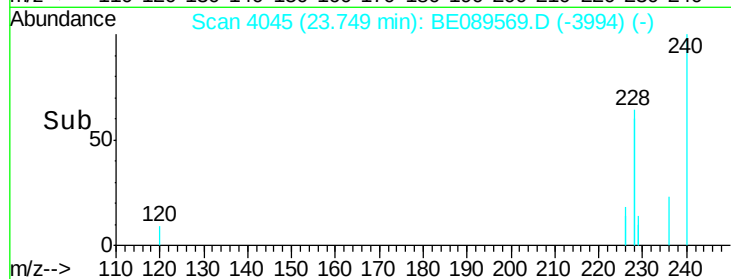
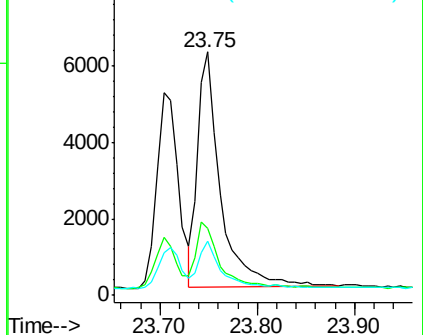
229 22.5 16.8 25.2



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: 0.09 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

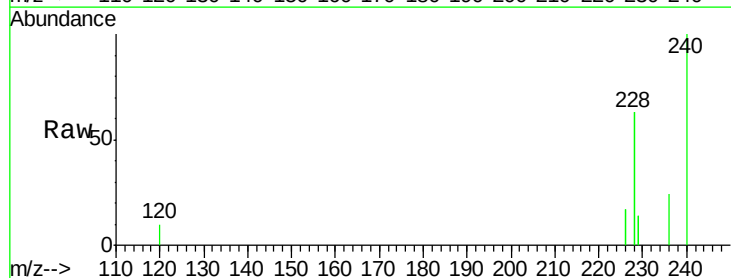
Tgt Ion:228 Resp: 10016

Ion Ratio Lower Upper

228 100

226 27.6 21.0 31.4

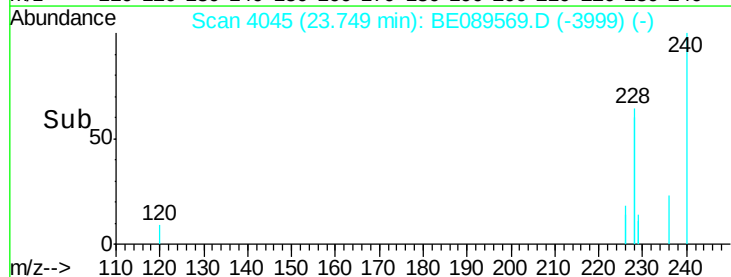
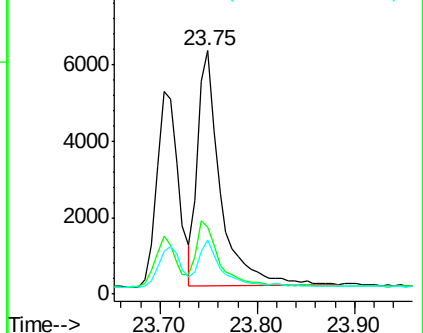
229 22.5 16.7 25.1

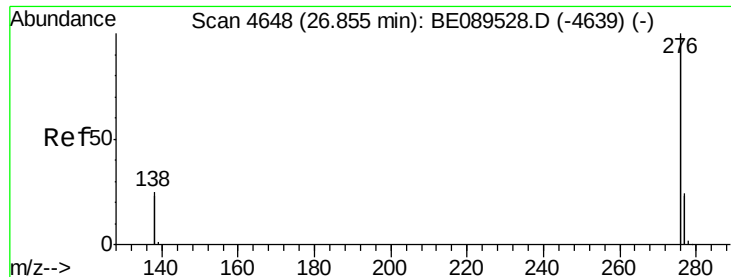


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.02 ng

RT: 26.84 min Scan# 4647

Delta R.T. -0.01 min

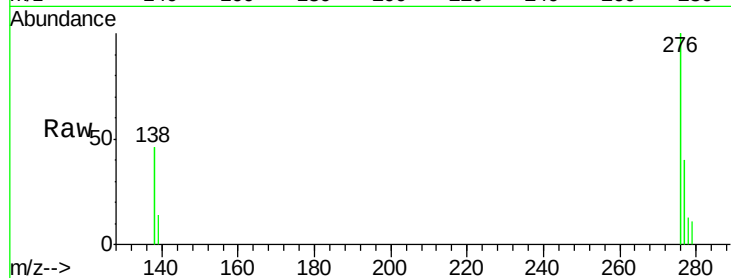
Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :



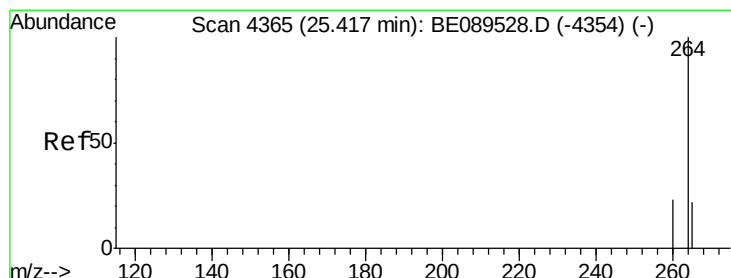
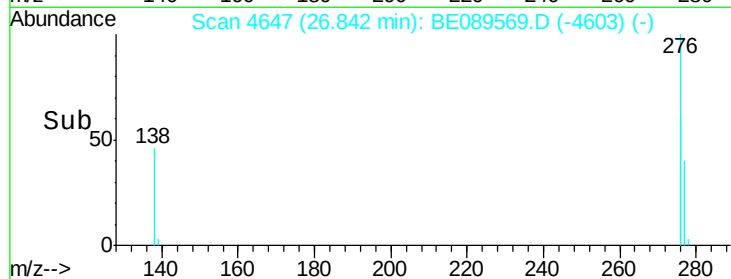
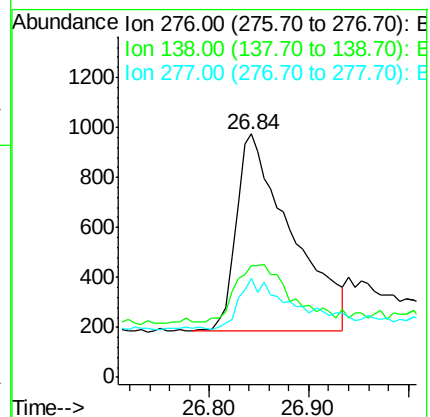
Tgt Ion:276 Resp: 3039

Ion Ratio Lower Upper

276 100

138 29.2 23.0 34.4

277 23.8 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: BE089569.D

Acq: 7 Feb 2015 21:45

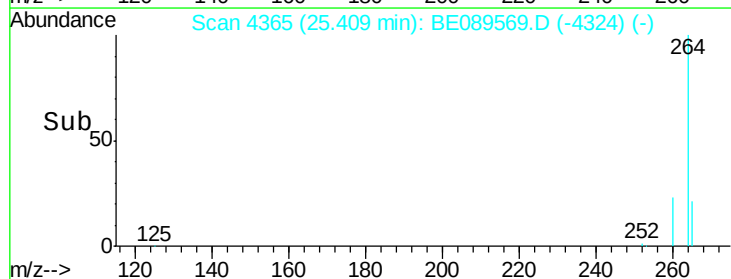
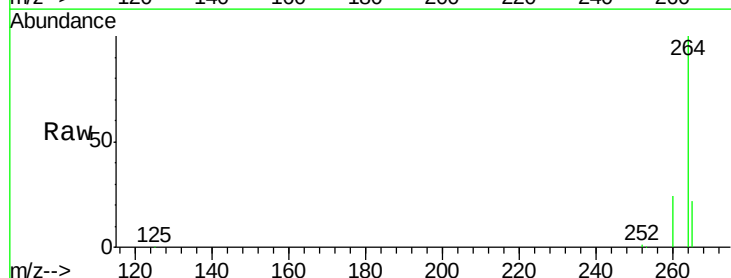
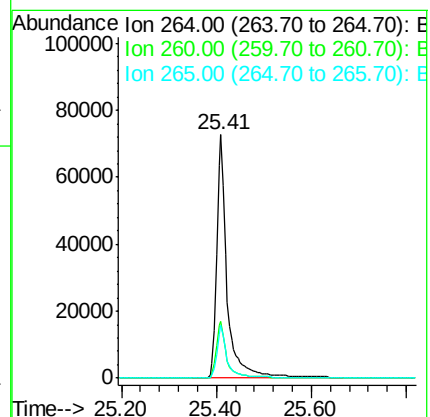
Tgt Ion:264 Resp: 110361

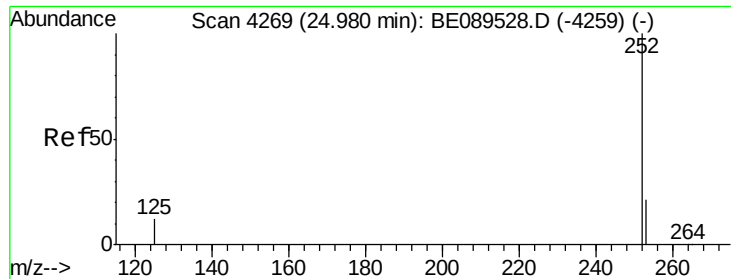
Ion Ratio Lower Upper

264 100

260 23.5 18.7 28.1

265 21.5 17.5 26.3





#23

Benzo(b)fluoranthene

Concen: 0.04 ng

RT: 24.97 min Scan# 4269

Delta R.T. -0.01 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :

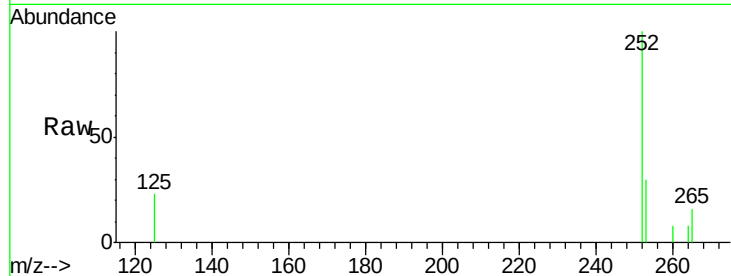
Tgt Ion:252 Resp: 760

Ion Ratio Lower Upper

252 100

253 29.9 17.4 26.0#

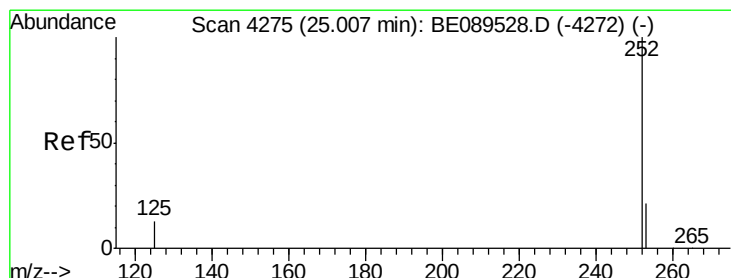
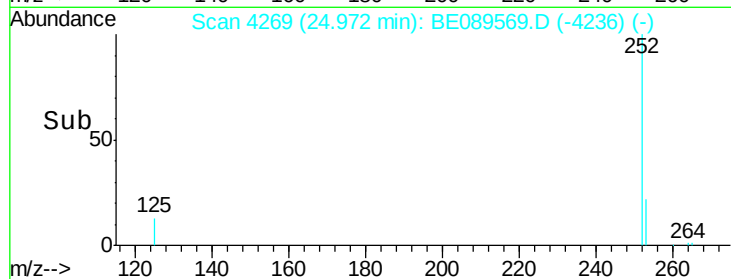
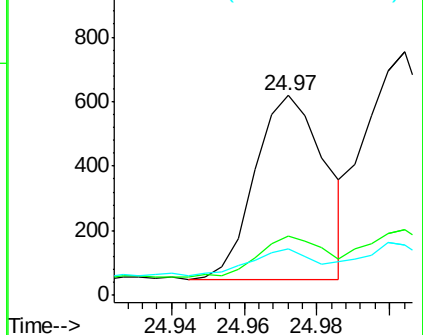
125 23.1 10.4 15.6#



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(k)fluoranthene

Concen: 0.06 ng

RT: 25.00 min Scan# 4276

Delta R.T. -0.00 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

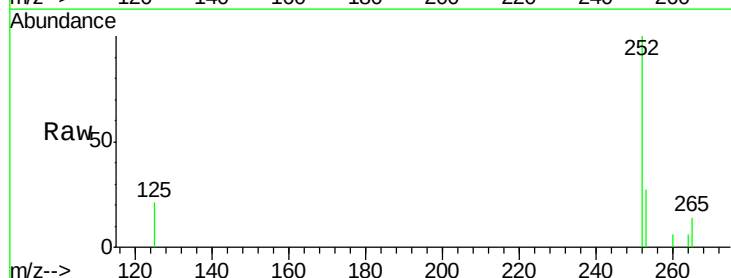
Tgt Ion:252 Resp: 1500

Ion Ratio Lower Upper

252 100

253 27.1 17.2 25.8#

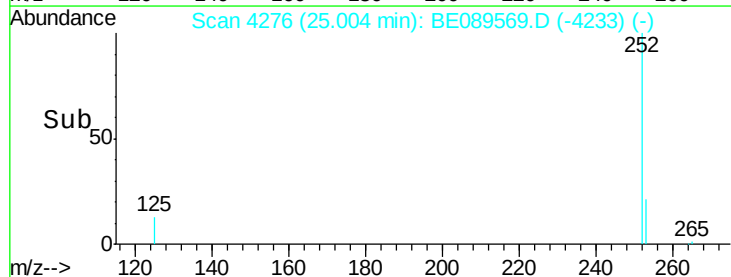
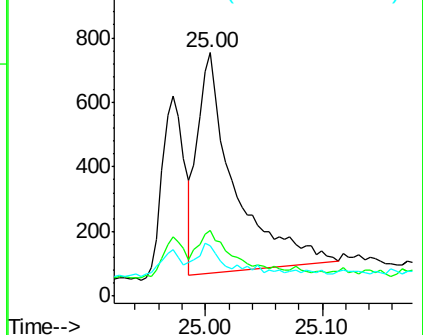
125 20.6 10.6 15.8#

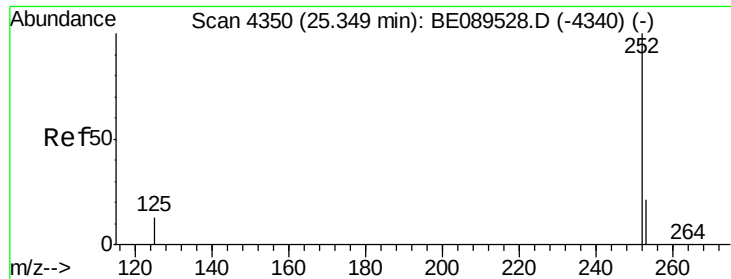


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.04 ng

RT: 25.34 min Scan# 4350

Delta R.T. -0.01 min

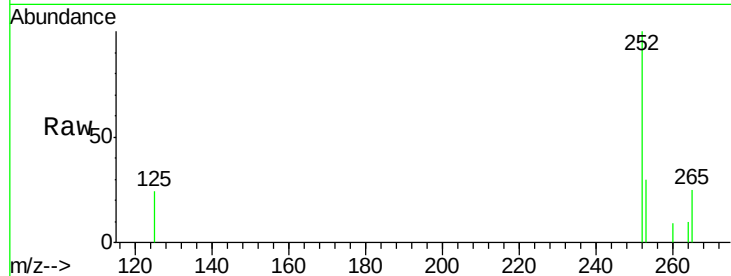
Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

Instrument :

BNA_E

ClientSampleId :



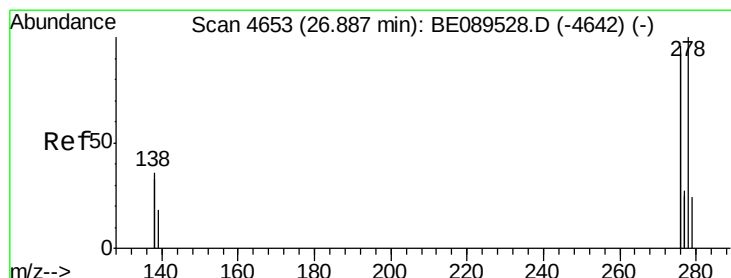
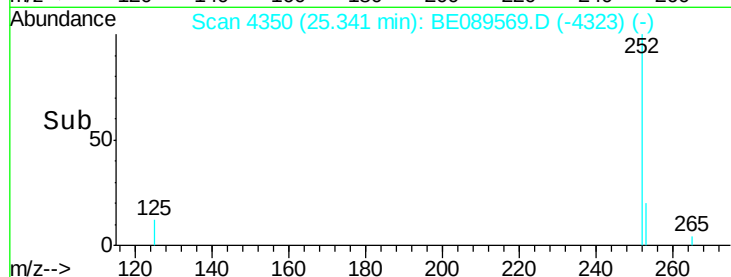
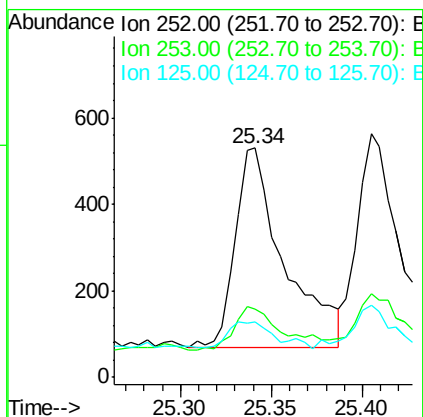
Tgt Ion: 252 Resp: 860

Ion Ratio Lower Upper

252 100

253 29.8 17.8 26.6#

125 24.2 11.4 17.2#



#26

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.87 min Scan# 4652

Delta R.T. -0.01 min

Lab File: BE089569.D

Acq: 7 Feb 2015 21:45

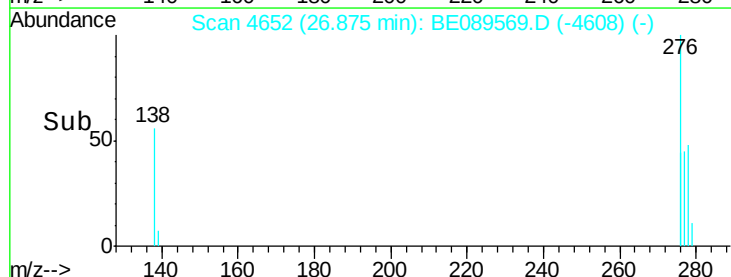
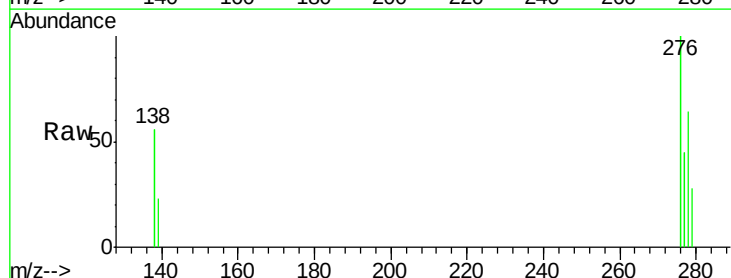
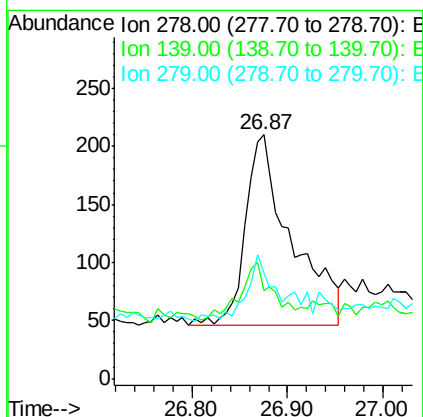
Tgt Ion: 278 Resp: 550

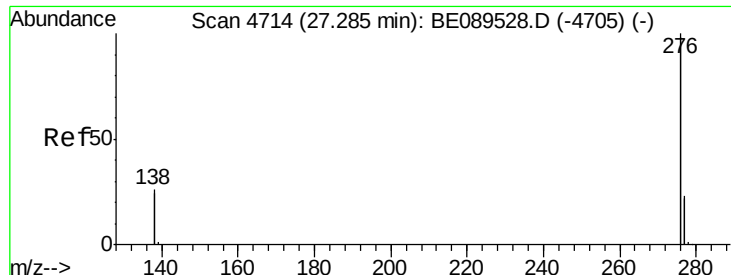
Ion Ratio Lower Upper

278 100

139 36.2 15.7 23.5#

279 43.3 19.5 29.3#

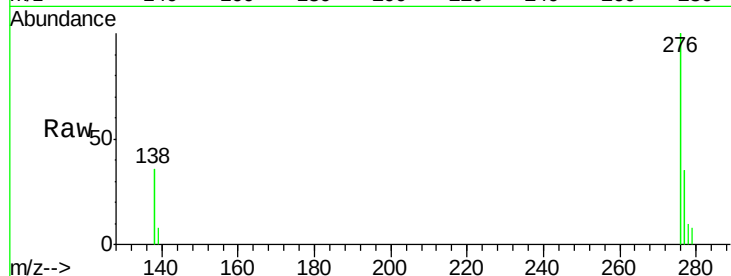




#27
 Benzo(g,h,i)perylene
 Concen: 0.04 ng
 RT: 27.27 min Scan# 4713
 Delta R.T. -0.01 min
 Lab File: BE089569.D
 Acq: 7 Feb 2015 21:45

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 3928
 Ion Ratio Lower Upper
 276 100
 277 35.2 18.6 27.8#
 138 35.8 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

