

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089486.D
 Acq On : 1 Feb 2015 5:08
 Operator : TP/IZ
 Sample : MDL-01-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

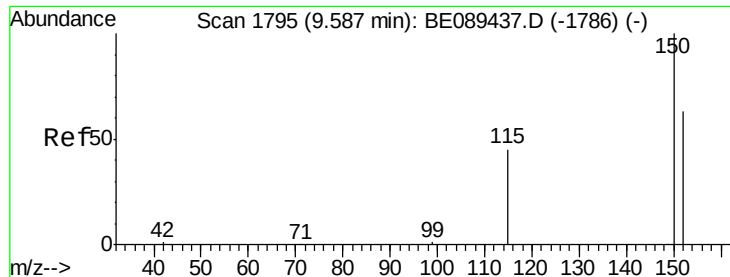
Quant Time: Feb 02 04:10:25 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	74803	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	297108	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	140168	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	222821	5.00	ng	0.00
16) Chrysene-d12	23.84	240	164040	5.00	ng	0.00
22) Perylene-d12	25.55	264	136267	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	201527	10.24	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	313124	8.48	ng	0.00
18) Terphenyl-d14	22.48	244	257820	10.50	ng	0.00

Target Compounds				Qvalue		
4) Naphthalene	12.54	128	11763	0.17	ng	99
5) 2-Methylnaphthalene	14.20	142	6925	0.16	ng	99
8) Acenaphthylene	16.33	152	35135	0.14	ng	99
9) Acenaphthene	16.76	154	6101	0.16	ng	99
10) Fluorene	18.00	166	6355	0.15	ng	98
12) Pentachlorophenol	19.66	266	239	Below Cal		92
13) Phenanthrene	20.03	178	39610	0.18	ng	98
14) Anthracene	20.11	178	30961	0.15	ng	98
15) Fluoranthene	21.91	202	6819	0.14	ng	98
17) Pyrene	22.22	202	7257	0.17	ng	99
19) Benzo(a)anthracene	23.83	228	15375	0.11	ng	98
20) Chrysene	23.87	228	31199	0.20	ng	95
21) Indeno(1,2,3-cd)pyrene	27.04	276	3900	0.03	ng	# 89
23) Benzo(b)fluoranthene	25.09	252	996	0.23	ng	# 81
24) Benzo(k)fluoranthene	25.13	252	1378	0.04	ng	# 83
25) Benzo(a)pyrene	25.48	252	1282	0.17	ng	# 84
26) Dibenzo(a,h)anthracene	27.08	278	761	0.16	ng	# 54
27) Benzo(g,h,i)perylene	27.50	276	6888	0.06	ng	# 80

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.01 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Instrument :

BNA_E

ClientSampled :

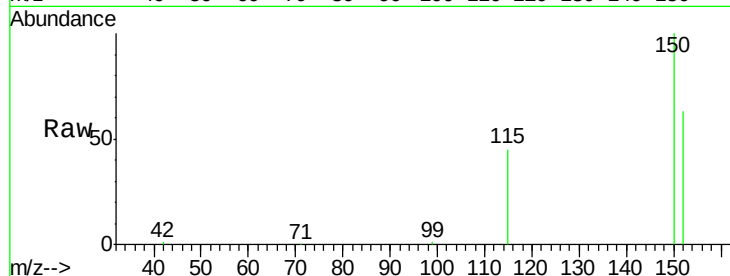
Tgt Ion:152 Resp: 74803

Ion Ratio Lower Upper

152 100

150 159.7 127.2 190.8

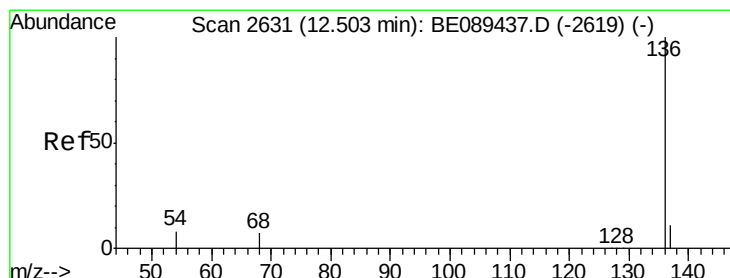
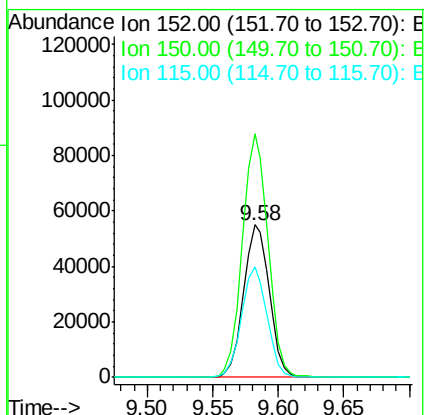
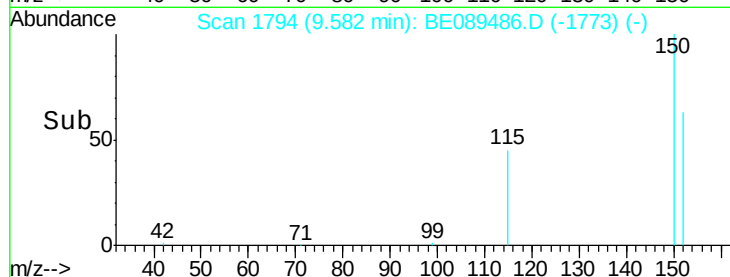
115 72.2 57.5 86.3



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: 12.49 min Scan# 2629

Delta R.T. -0.01 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

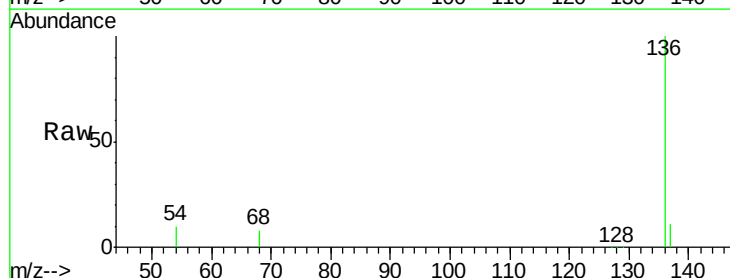
Tgt Ion:136 Resp: 297108

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

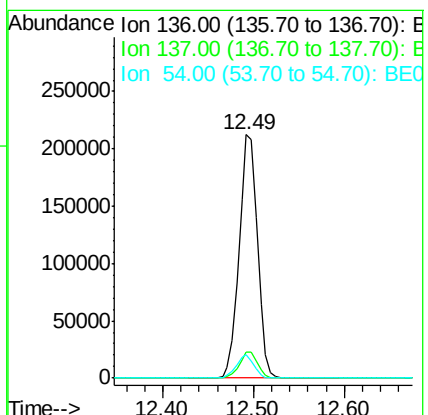
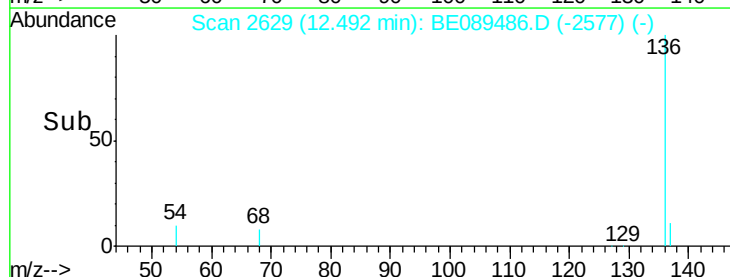
54 9.6 6.6 10.0

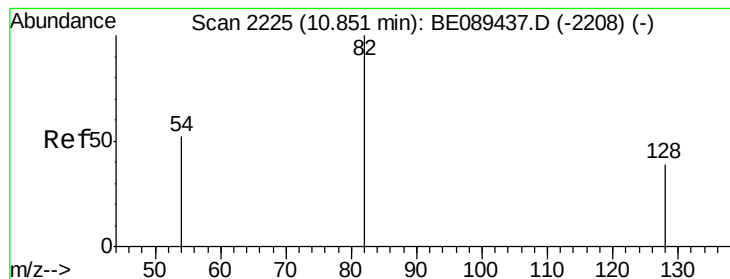


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 10.24 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

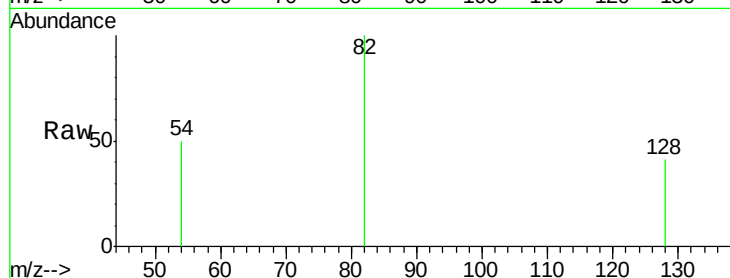
Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Instrument :

BNA_E

ClientSampleId :



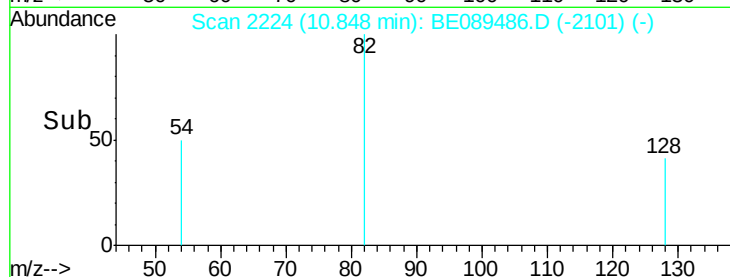
Tgt Ion: 82 Resp: 201527

Ion Ratio Lower Upper

82 100

128 41.1 31.2 46.8

54 49.7 41.9 62.9

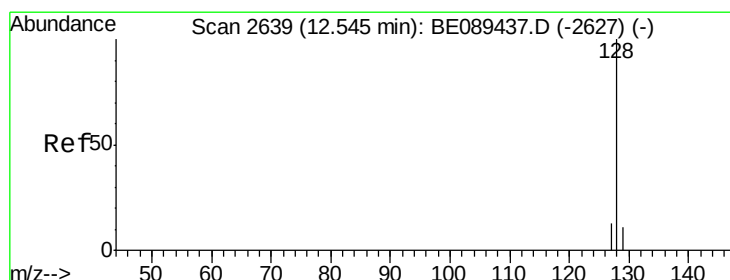
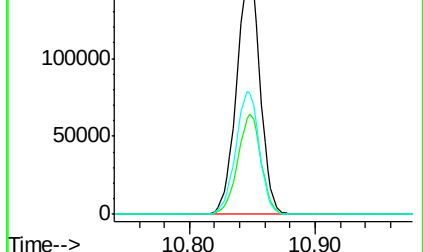


Abundance Ion 82.00 (81.70 to 82.70): BE089437.D (-2208) (-)

Ion 128.00 (127.70 to 128.70): BE089437.D (-2208) (-)

Ion 54.00 (53.70 to 54.70): BE089437.D (-2208) (-)

Time-->



#4

Naphthalene

Concen: 0.17 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

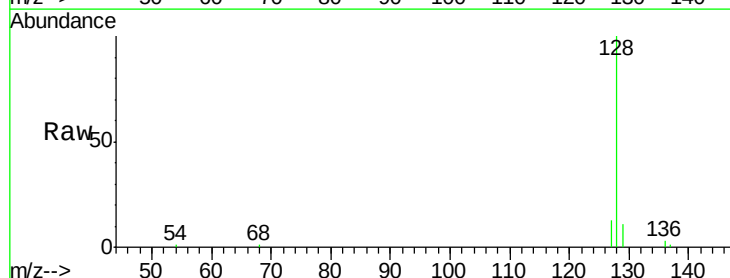
Tgt Ion: 128 Resp: 11763

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

127 12.9 10.6 16.0

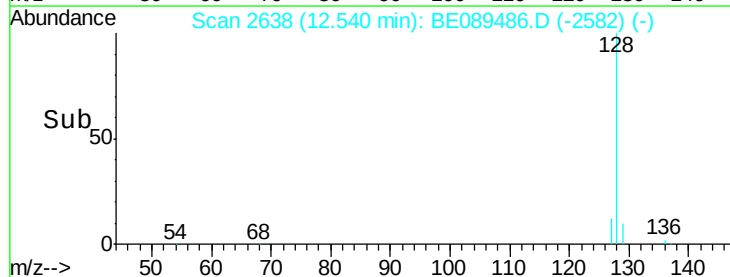
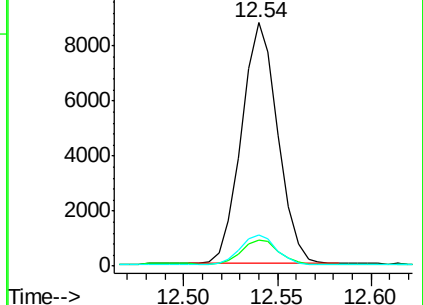


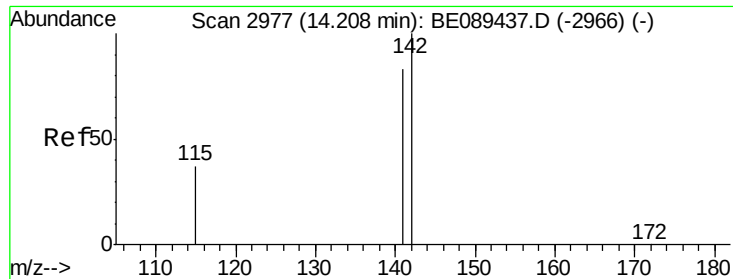
Abundance Ion 128.00 (127.70 to 128.70): BE089437.D (-2627) (-)

Ion 129.00 (128.70 to 129.70): BE089437.D (-2627) (-)

Ion 127.00 (126.70 to 127.70): BE089437.D (-2627) (-)

Time-->





#5

2-Methylnaphthalene

Concen: 0.16 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.00 min

Lab File: BE089486.D

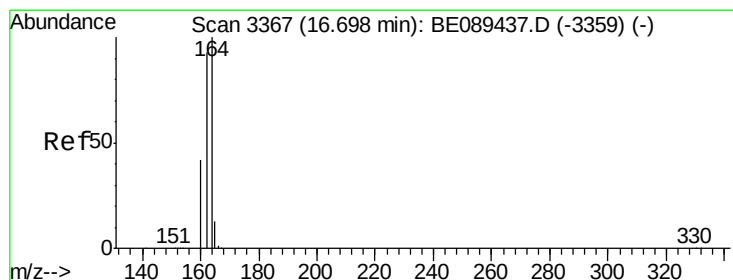
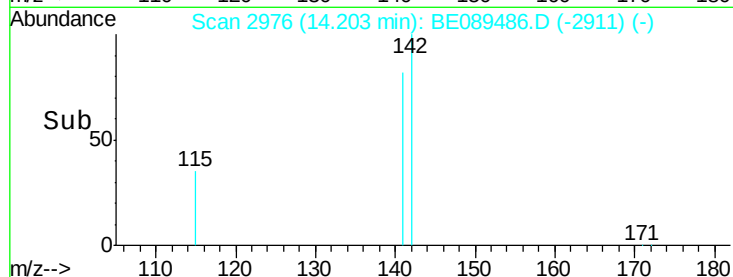
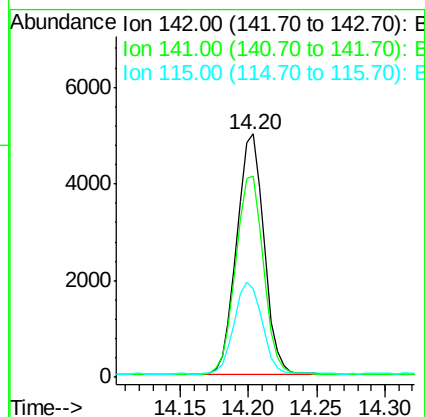
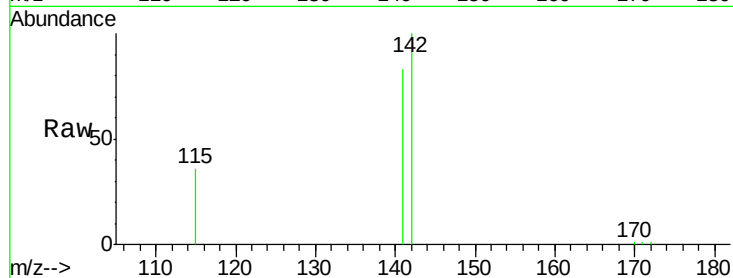
Acq: 1 Feb 2015 5:08

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	6925
Ion Ratio	Lower	Upper	
142	100		
141	82.8	66.1	99.1
115	36.4	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

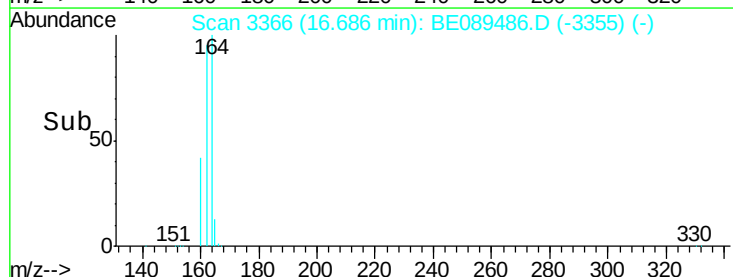
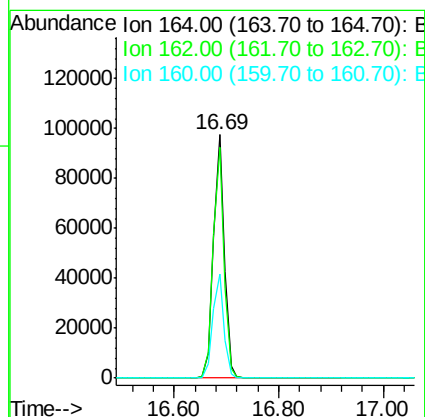
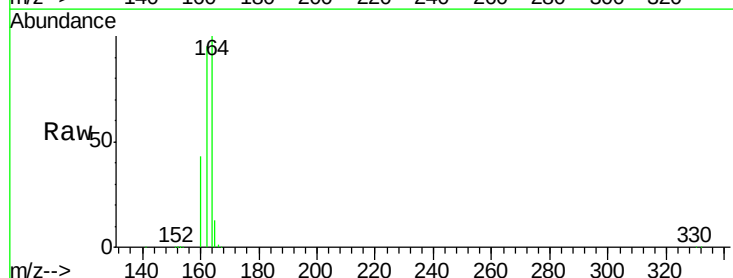
RT: 16.69 min Scan# 3366

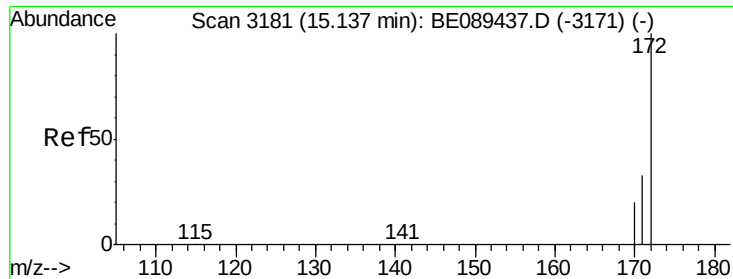
Delta R.T. -0.01 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Tgt Ion:	164	Resp:	140168
Ion Ratio	Lower	Upper	
164	100		
162	94.7	74.7	112.1
160	42.5	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 8.48 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Instrument :

BNA_E

ClientSampleId :

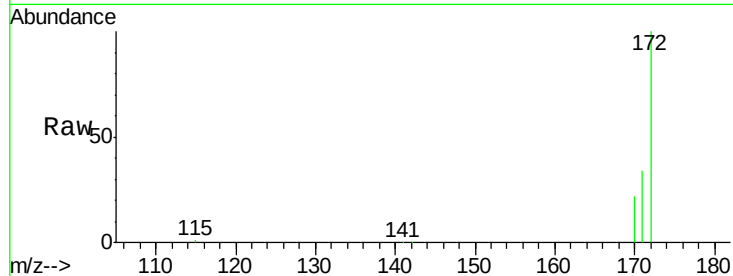
Tgt Ion:172 Resp: 313124

Ion Ratio Lower Upper

172 100

171 33.9 26.2 39.4

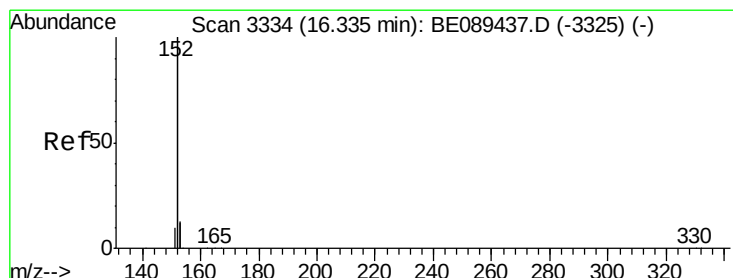
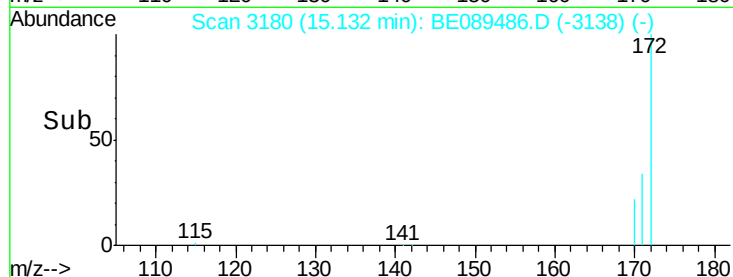
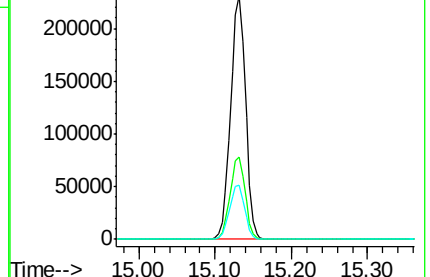
170 22.0 16.5 24.7



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: 0.14 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

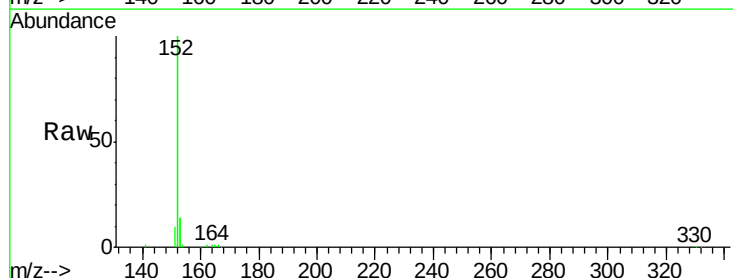
Tgt Ion:152 Resp: 35135

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

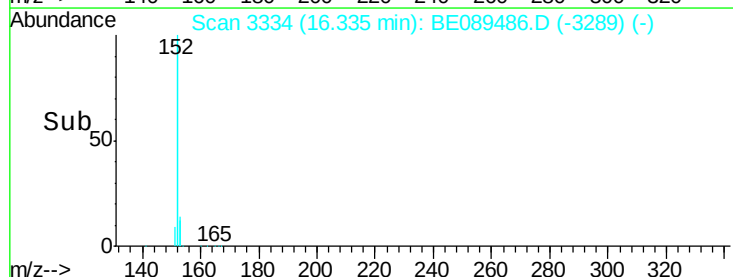
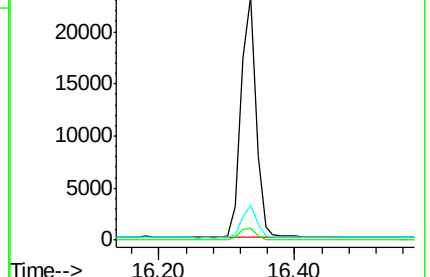
153 13.6 10.3 15.5

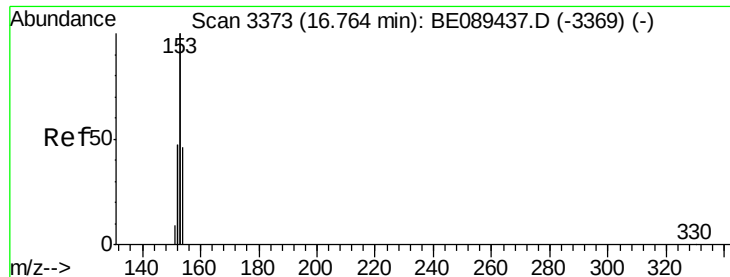


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.16 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Instrument :

BNA_E

ClientSampleId :

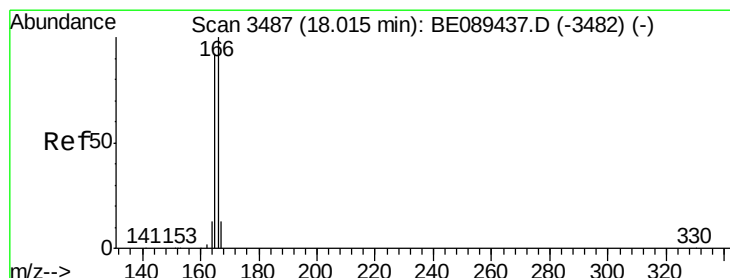
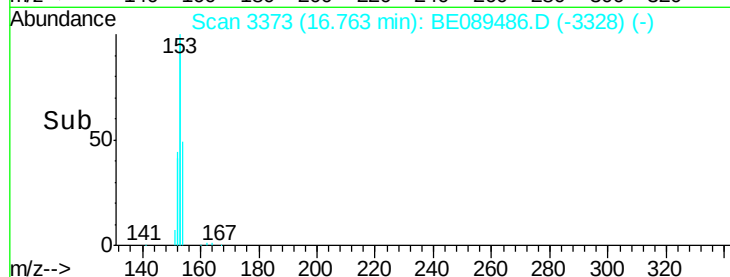
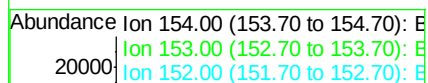
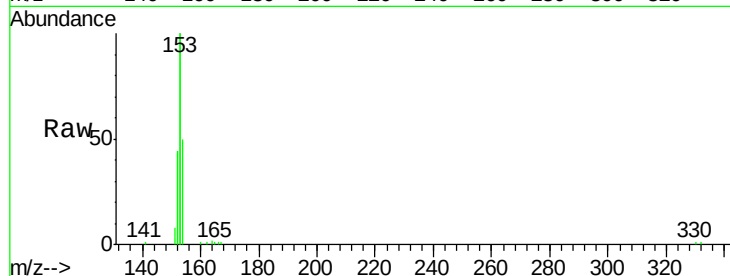
Tgt Ion:154 Resp: 6101

Ion Ratio Lower Upper

154 100

153 428.7 342.3 513.5

152 209.2 165.5 248.3



#10

Fluorene

Concen: 0.15 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

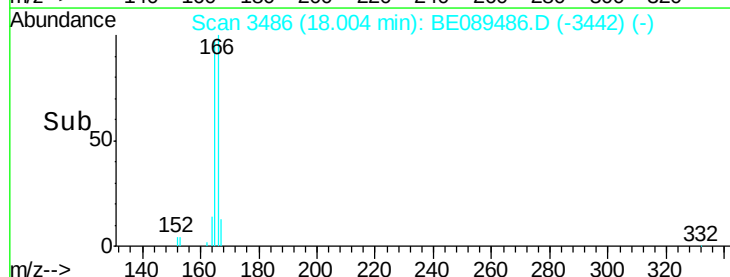
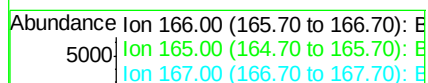
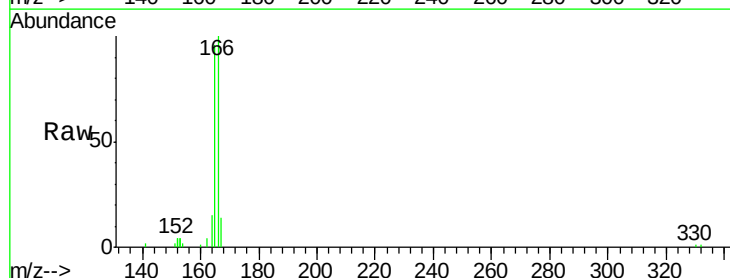
Tgt Ion:166 Resp: 6355

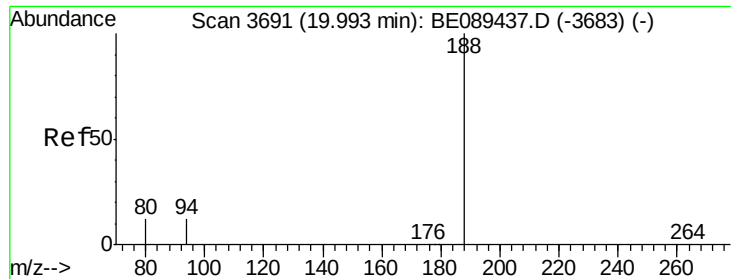
Ion Ratio Lower Upper

166 100

165 94.8 74.4 111.6

167 13.0 10.6 15.8

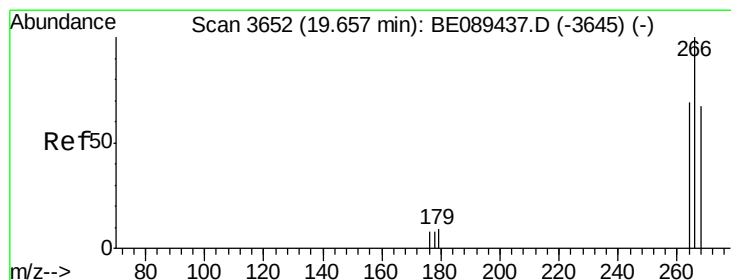
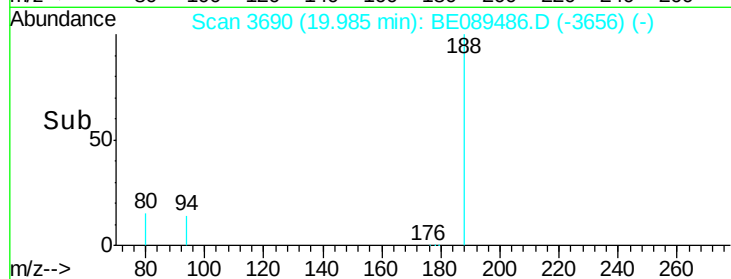
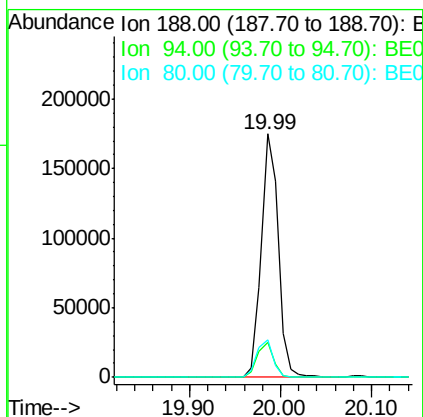
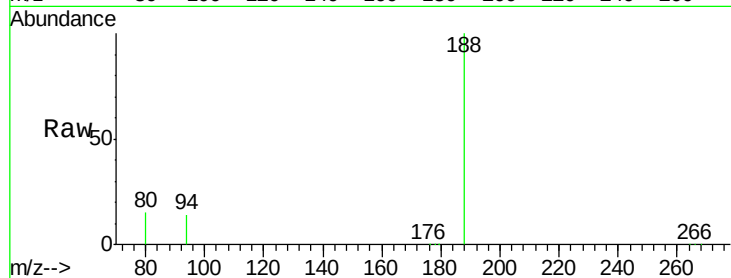




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089486.D
Acq: 1 Feb 2015 5:08

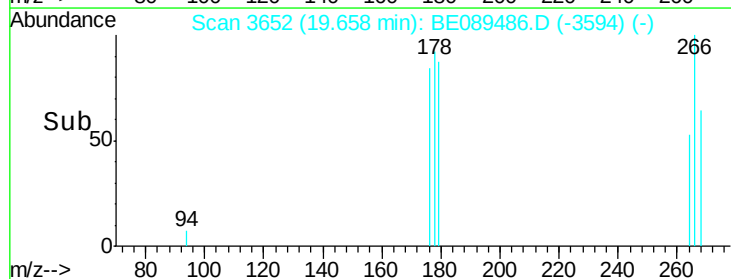
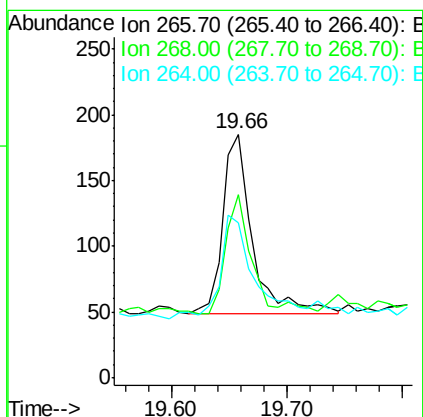
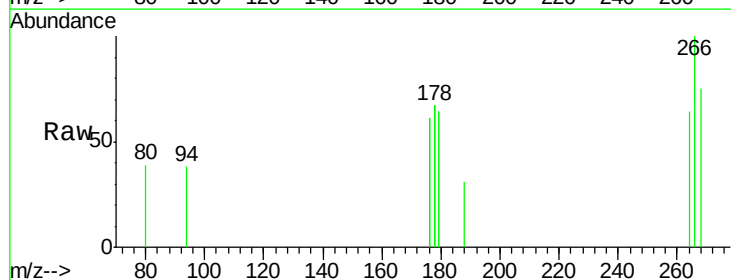
Instrument :
BNA_E
ClientSampleId :

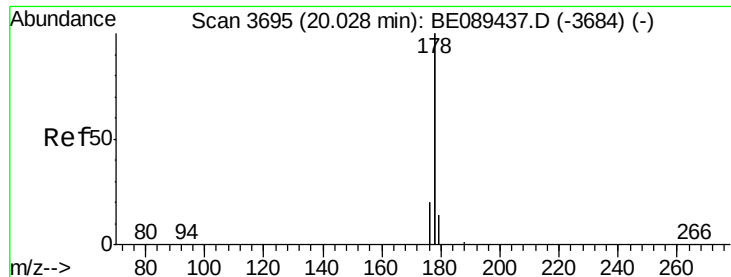
Tgt Ion:188 Resp: 222821
Ion Ratio Lower Upper
188 100
94 14.3 9.4 14.0#
80 15.3 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089486.D
Acq: 1 Feb 2015 5:08

Tgt Ion:266 Resp: 239
Ion Ratio Lower Upper
266 100
268 75.1 54.2 81.4
264 63.8 56.2 84.2





#13

Phenanthrene

Concen: 0.18 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Instrument :

BNA_E

ClientSampleId :

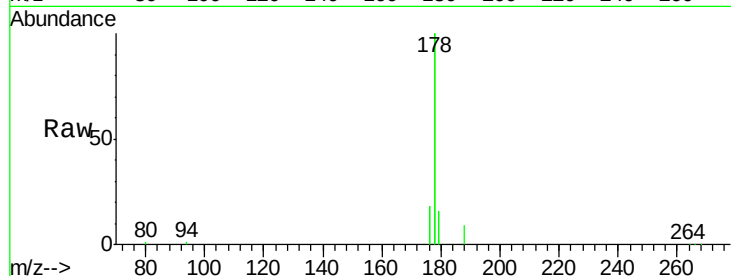
Tgt Ion:178 Resp: 39610

Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

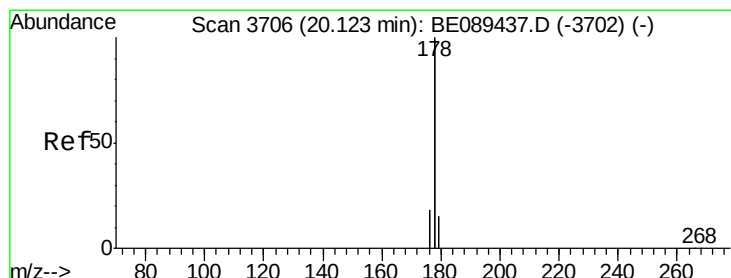
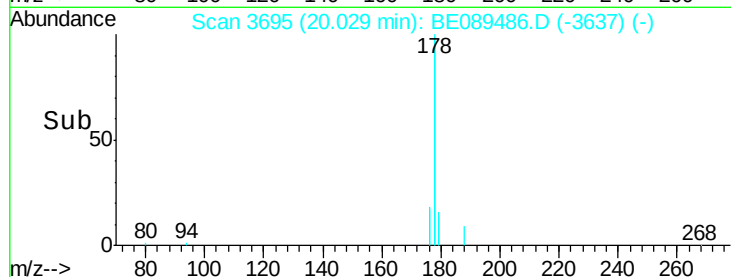
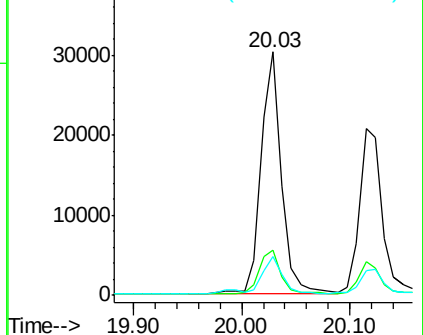
179 16.6 12.3 18.5



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: 0.15 ng

RT: 20.11 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

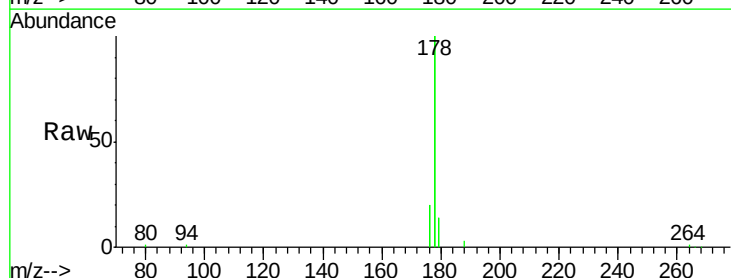
Tgt Ion:178 Resp: 30961

Ion Ratio Lower Upper

178 100

176 17.5 14.6 22.0

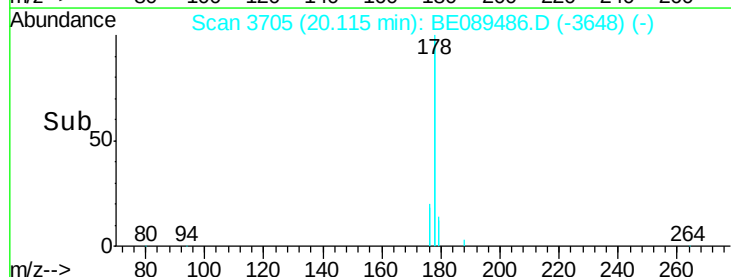
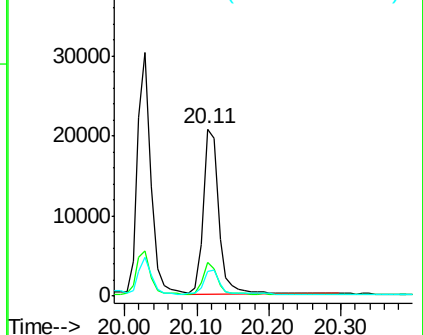
179 14.2 12.2 18.2

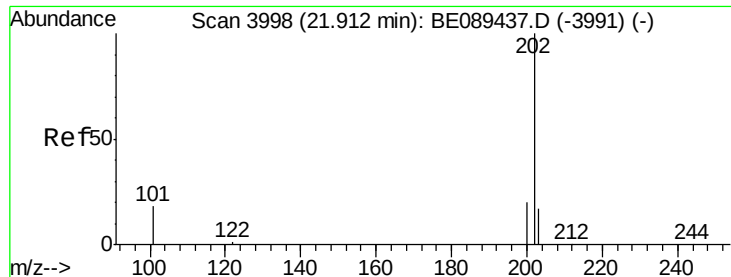


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

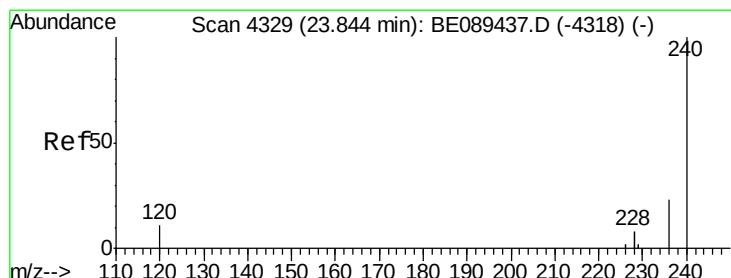
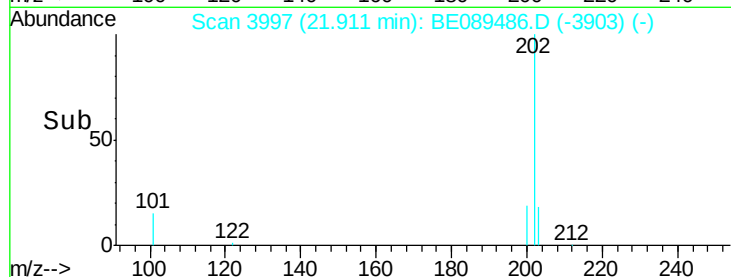
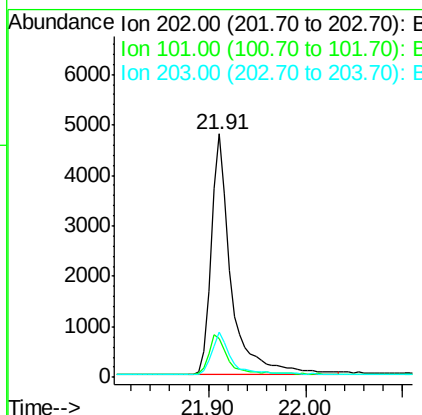
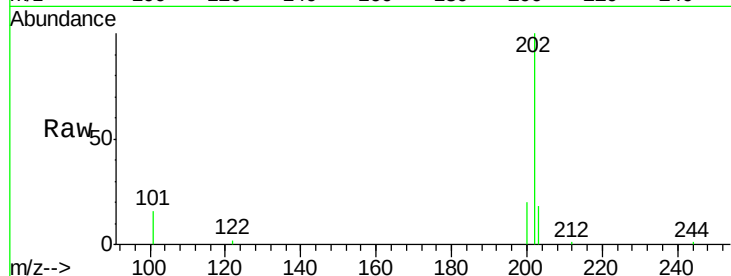




#15
 Fluoranthene
 Concen: 0.14 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089486.D
 Acq: 1 Feb 2015 5:08

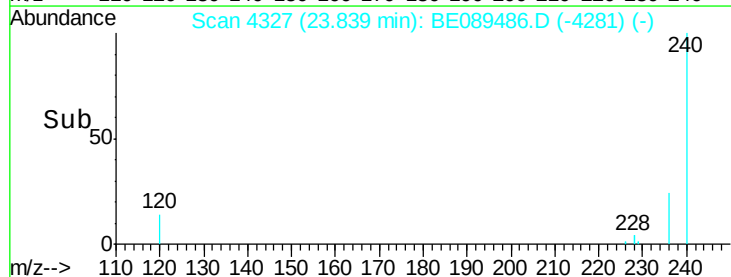
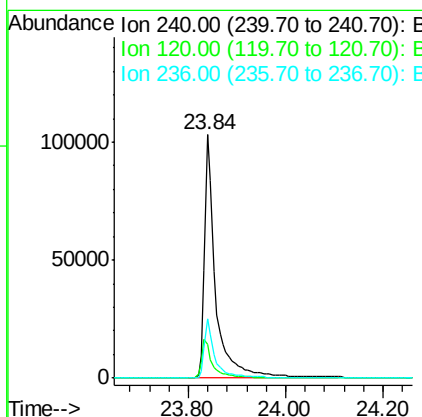
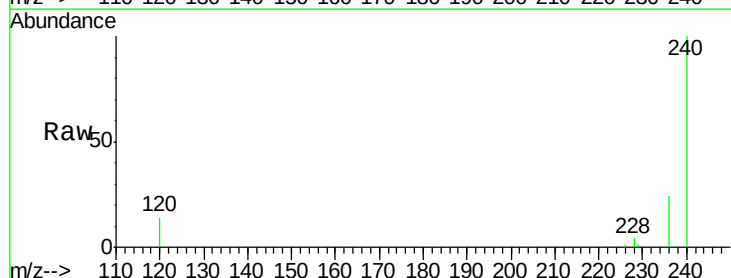
Instrument :
 BNA_E
 ClientSampleId :

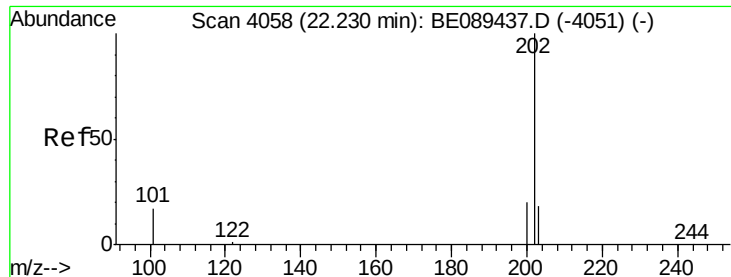
Tgt Ion: 202 Resp: 6819
 Ion Ratio Lower Upper
 202 100
 101 16.2 13.6 20.4
 203 16.6 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: BE089486.D
 Acq: 1 Feb 2015 5:08

Tgt Ion: 240 Resp: 164040
 Ion Ratio Lower Upper
 240 100
 120 14.1 8.6 13.0#
 236 24.2 18.7 28.1

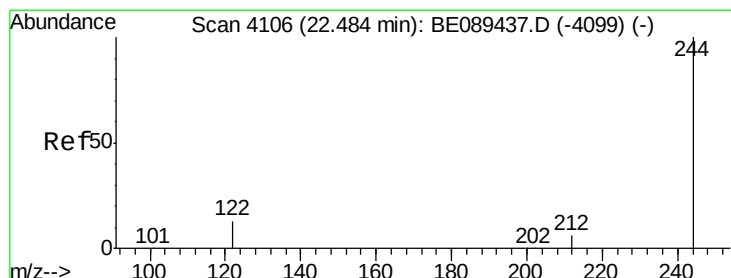
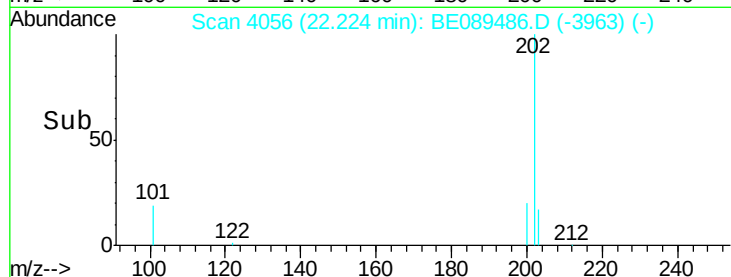
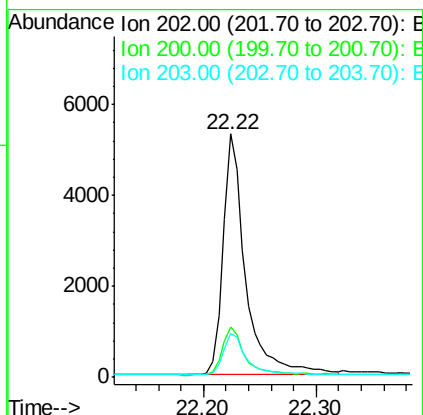
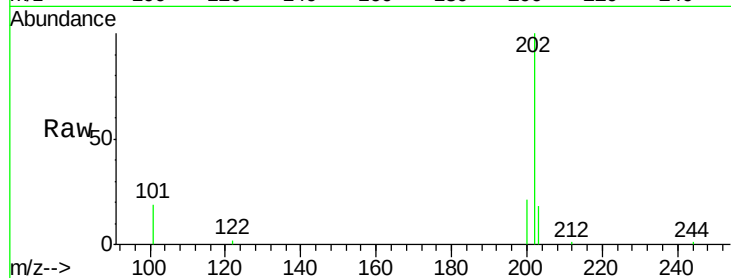




#17
 Pyrene
 Concen: 0.17 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089486.D
 Acq: 1 Feb 2015 5:08

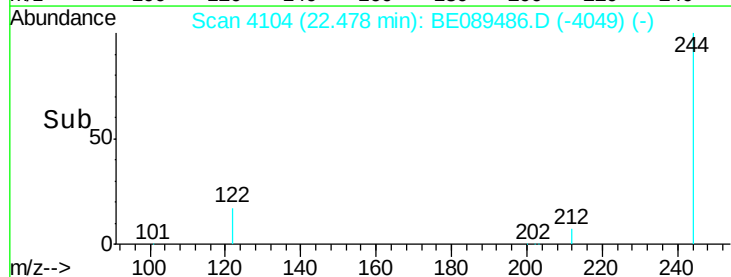
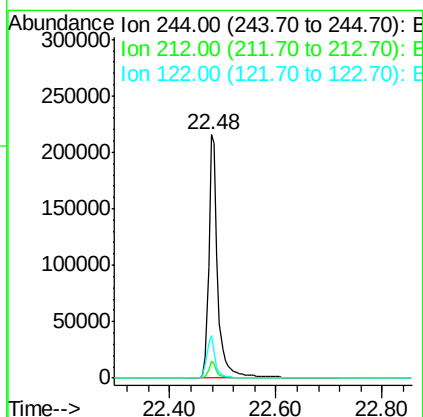
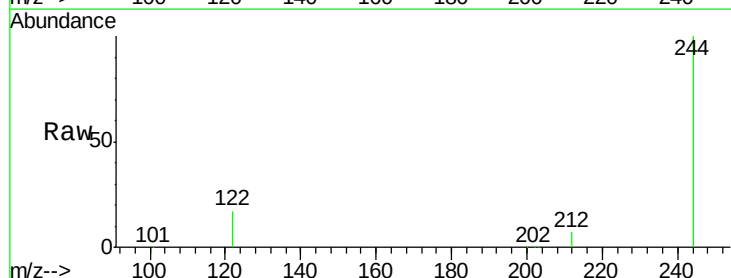
Instrument :
 BNA_E
 ClientSampleId :

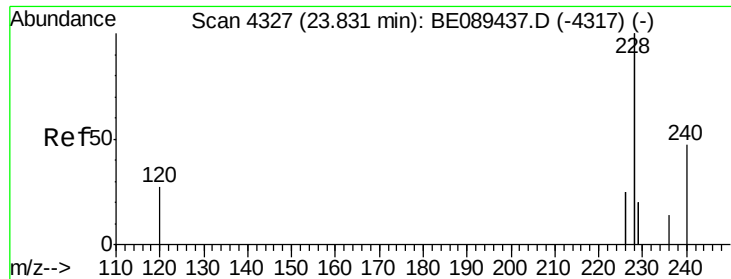
Tgt Ion:202 Resp: 7257
 Ion Ratio Lower Upper
 202 100
 200 20.6 16.2 24.4
 203 18.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 10.50 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089486.D
 Acq: 1 Feb 2015 5:08

Tgt Ion:244 Resp: 257820
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.0 7.6
 122 17.3 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.11 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Instrument :

BNA_E

ClientSampleId :

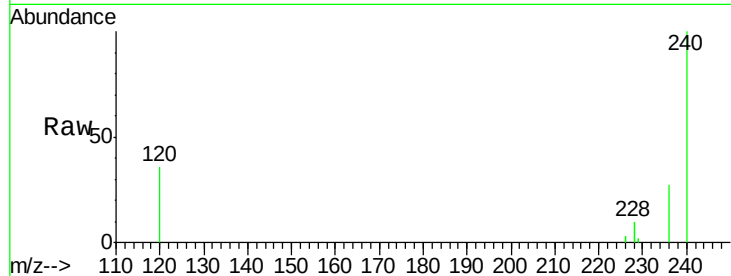
Tgt Ion:228 Resp: 15375

Ion Ratio Lower Upper

228 100

226 26.3 20.0 30.0

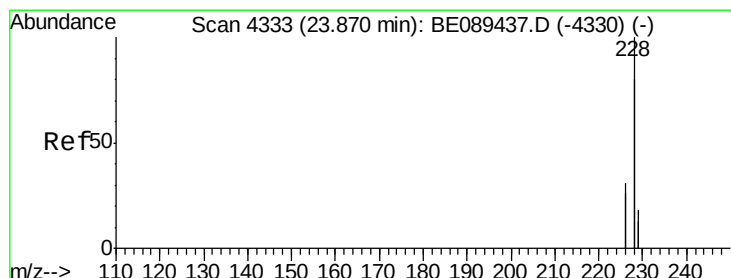
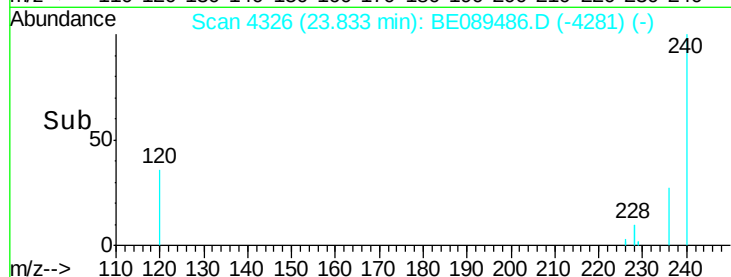
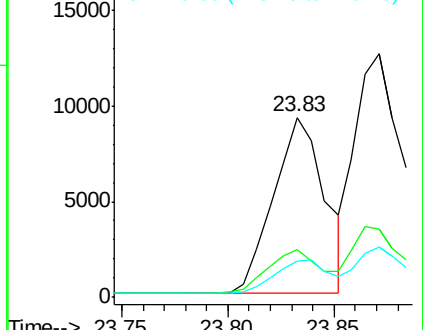
229 20.2 16.0 24.0



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



#20

Chrysene

Concen: 0.20 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

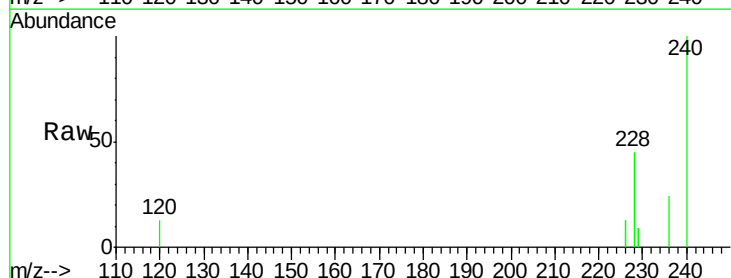
Tgt Ion:228 Resp: 31199

Ion Ratio Lower Upper

228 100

226 28.2 24.5 36.7

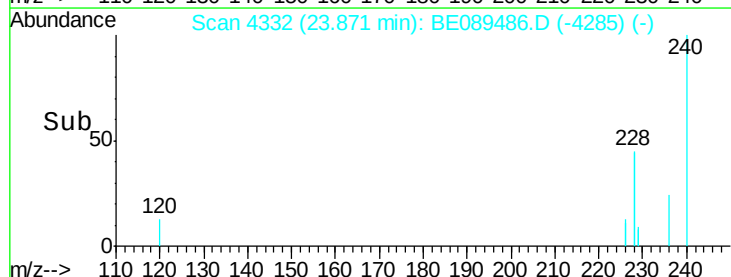
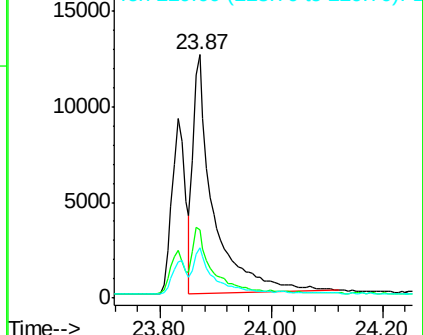
229 20.6 14.1 21.1

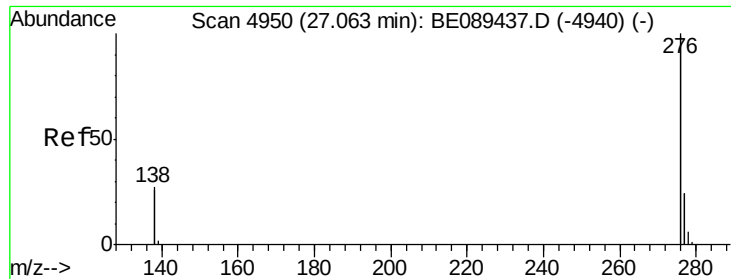


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

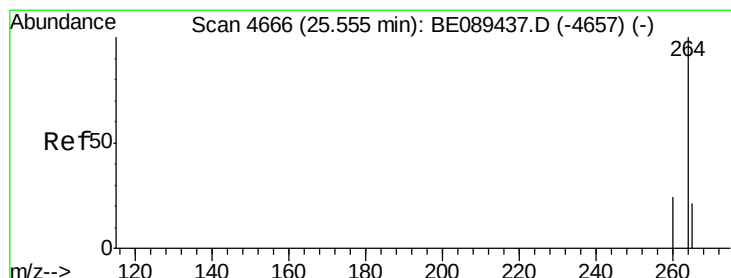
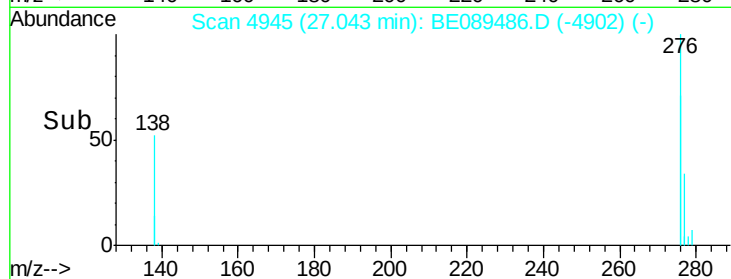
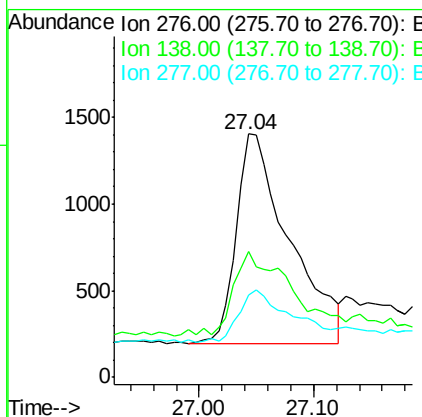
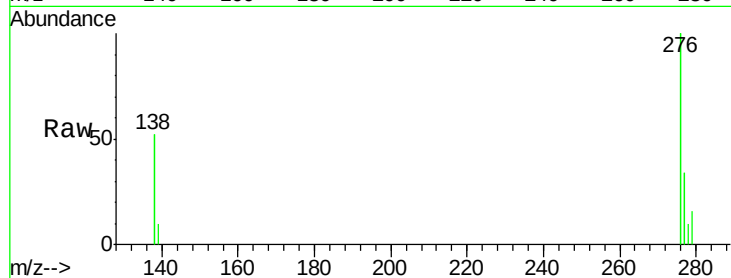




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.03 ng
 RT: 27.04 min Scan# 4945
 Delta R.T. -0.02 min
 Lab File: BE089486.D
 Acq: 1 Feb 2015 5:08

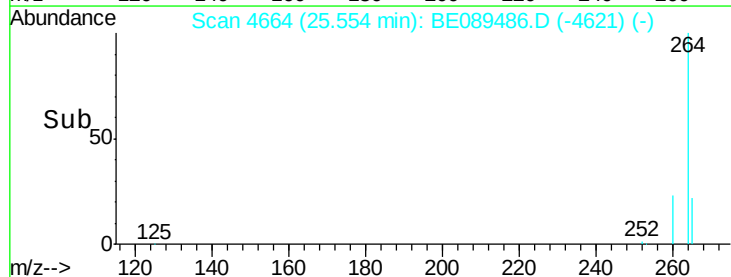
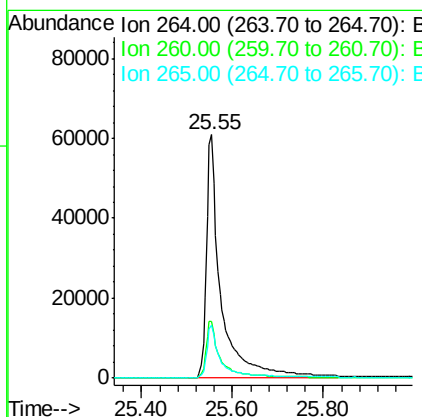
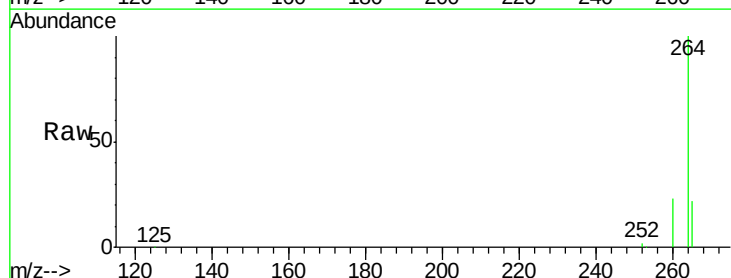
Instrument :
 BNA_E
 ClientSampleId :

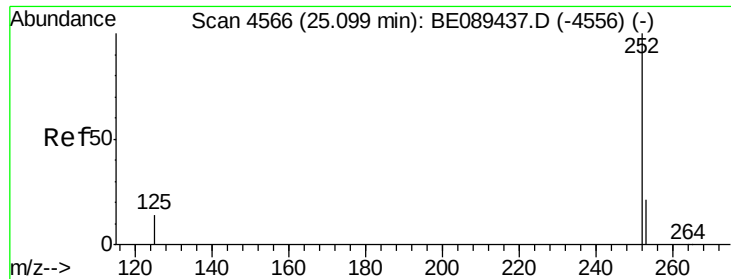
Tgt Ion: 276 Resp: 3900
 Ion Ratio Lower Upper
 276 100
 138 42.9 25.4 38.0#
 277 24.6 19.8 29.6



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.55 min Scan# 4664
 Delta R.T. -0.00 min
 Lab File: BE089486.D
 Acq: 1 Feb 2015 5:08

Tgt Ion: 264 Resp: 136267
 Ion Ratio Lower Upper
 264 100
 260 23.4 19.4 29.0
 265 21.7 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.23 ng

RT: 25.09 min Scan# 4562

Delta R.T. -0.01 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

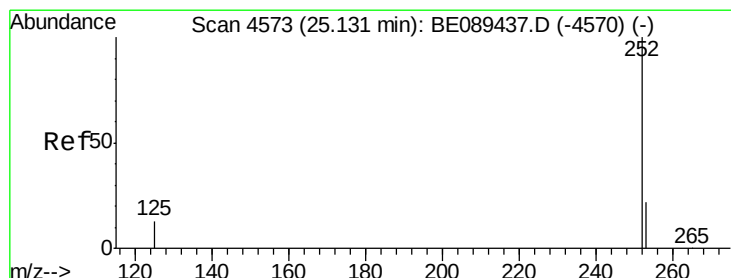
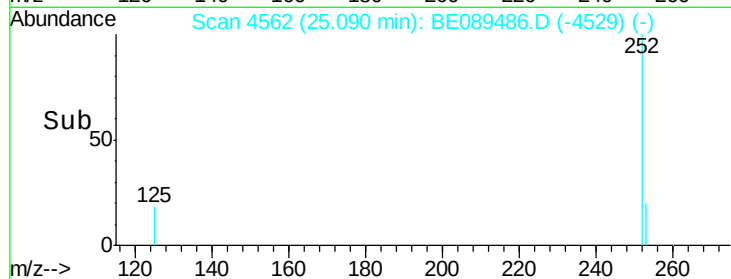
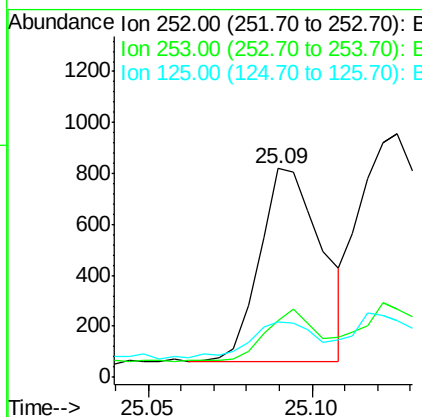
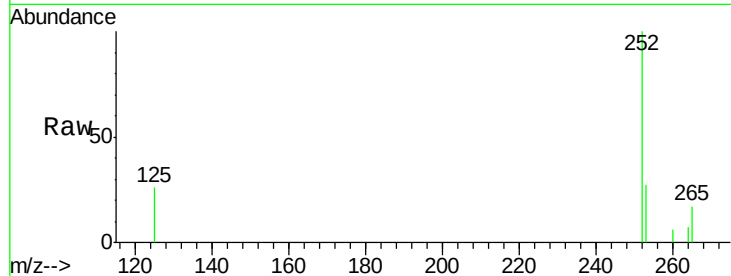
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:252 Resp: 996

Ion	Ratio	Lower	Upper
252	100		
253	27.0	17.0	25.6#
125	26.2	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 25.13 min Scan# 4570

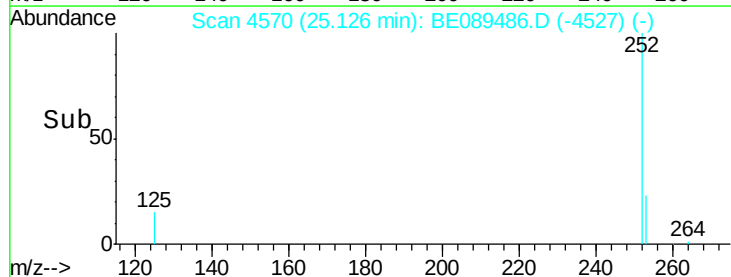
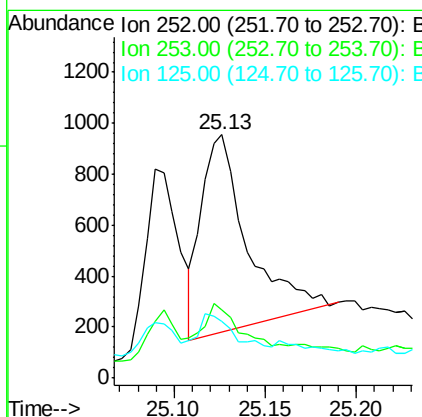
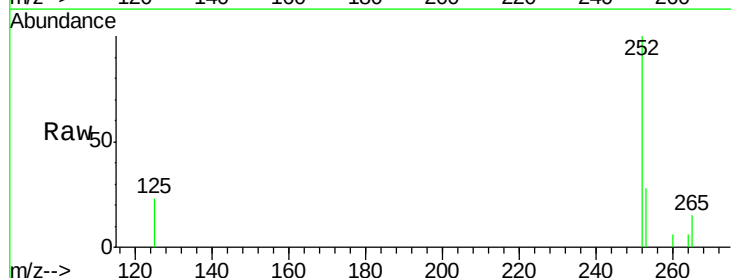
Delta R.T. -0.01 min

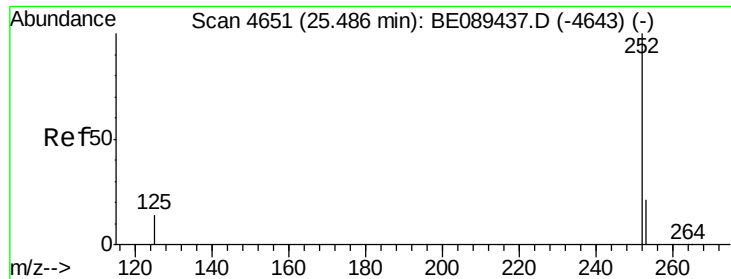
Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Tgt Ion:252 Resp: 1378

Ion	Ratio	Lower	Upper
252	100		
253	27.8	17.4	26.2#
125	23.1	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.17 ng

RT: 25.48 min Scan# 4647

Delta R.T. -0.01 min

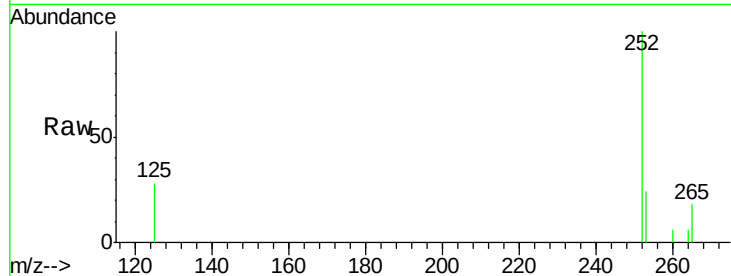
Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

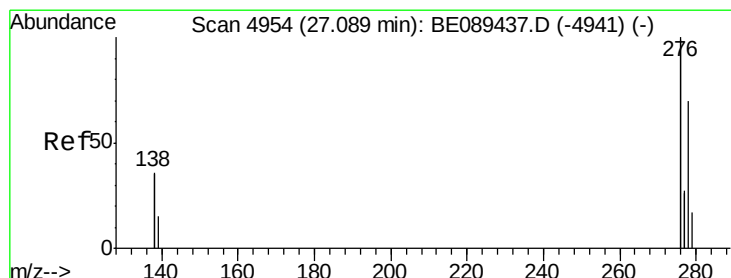
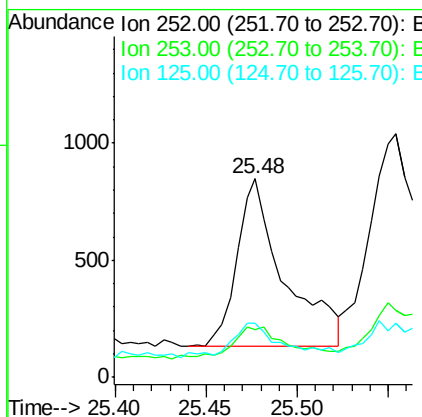
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	252	Resp:	1282
Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.3	25.9
125	27.6	12.0	18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.16 ng

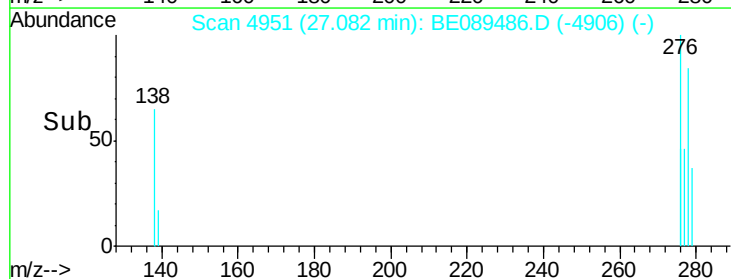
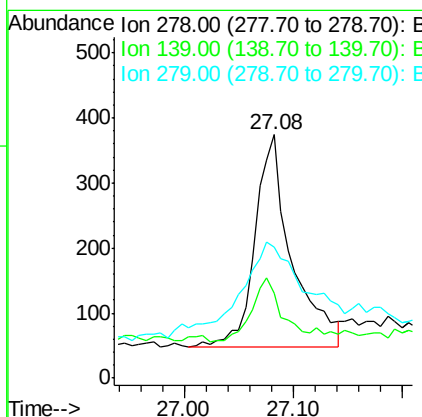
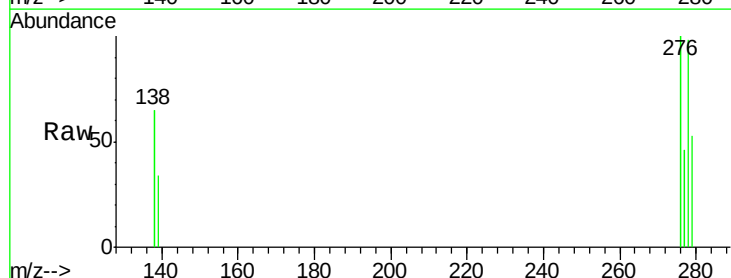
RT: 27.08 min Scan# 4951

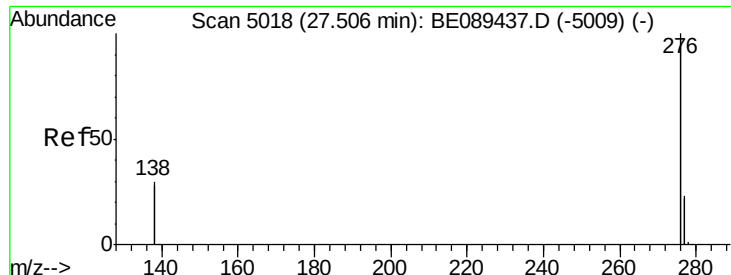
Delta R.T. -0.01 min

Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Tgt Ion:	278	Resp:	761
Ion	Ratio	Lower	Upper
278	100		
139	35.0	17.0	25.4#
279	53.7	19.1	28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.06 ng

RT: 27.50 min Scan# 5015

Delta R.T. -0.01 min

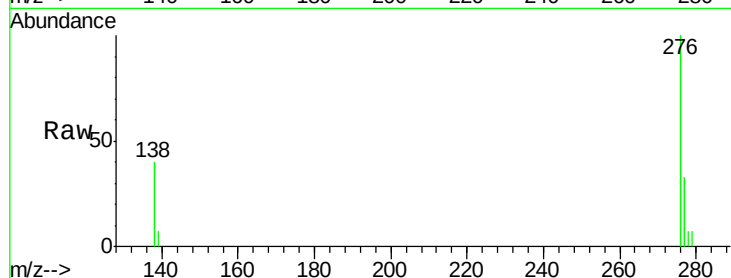
Lab File: BE089486.D

Acq: 1 Feb 2015 5:08

Instrument :

BNA_E

ClientSampleId :



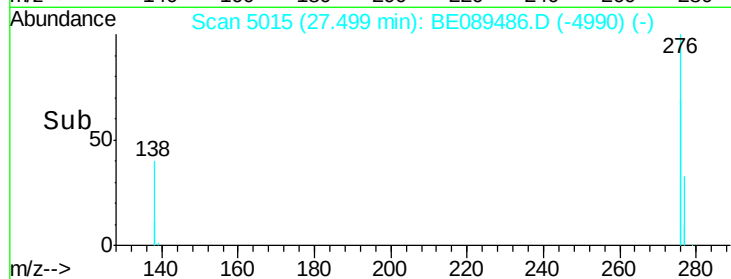
Tgt Ion: 276 Resp: 6888

Ion Ratio Lower Upper

276 100

277 32.9 18.4 27.6#

138 40.0 23.7 35.5#



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

