

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089488.D
 Acq On : 1 Feb 2015 6:25
 Operator : TP/IZ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 04:11:11 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	54357	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	219153	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	109641	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	184939	5.00	ng	0.00
16) Chrysene-d12	23.84	240	150036	5.00	ng	0.00
22) Perylene-d12	25.55	264	124750	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	142676	9.83	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	247215	8.56	ng	0.00
18) Terphenyl-d14	22.48	244	236498	10.53	ng	0.00

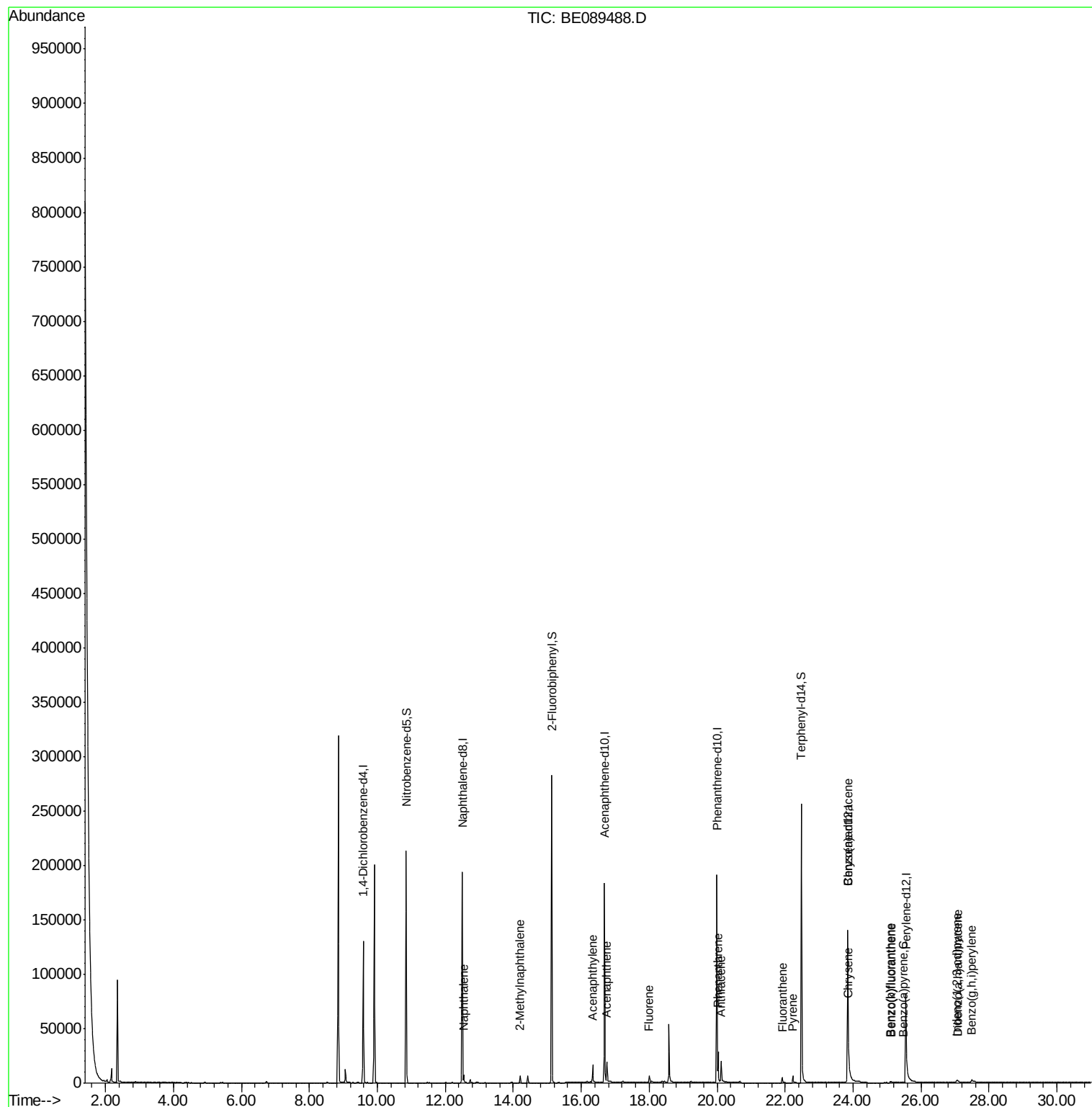
Target Compounds						Qvalue
4) Naphthalene	12.54	128	7601	0.15	ng	99
5) 2-Methylnaphthalene	14.20	142	4270	0.14	ng	98
8) Acenaphthylene	16.34	152	21802	0.11	ng	99
9) Acenaphthene	16.75	154	3874	0.13	ng	98
10) Fluorene	18.00	166	4176	0.13	ng	97
12) Pentachlorophenol	19.66	266	158	Below Cal	#	86
13) Phenanthrene	20.03	178	27370	0.15	ng	99
14) Anthracene	20.12	178	20540	0.12	ng	100
15) Fluoranthene	21.91	202	4904	0.12	ng	97
17) Pyrene	22.22	202	5387	0.14	ng	99
19) Benzo(a)anthracene	23.83	228	12185	0.10	ng	96
20) Chrysene	23.87	228	24165	0.17	ng	# 93
21) Indeno(1,2,3-cd)pyrene	27.05	276	3590	0.03	ng	93
23) Benzo(b)fluoranthene	25.09	252	777	0.22	ng	# 75
24) Benzo(k)fluoranthene	25.12	252	1631	0.05	ng	# 80
25) Benzo(a)pyrene	25.47	252	954	0.16	ng	# 82
26) Dibenzo(a,h)anthracene	27.08	278	642	0.16	ng	# 31
27) Benzo(g,h,i)perylene	27.50	276	5404	0.05	ng	# 80

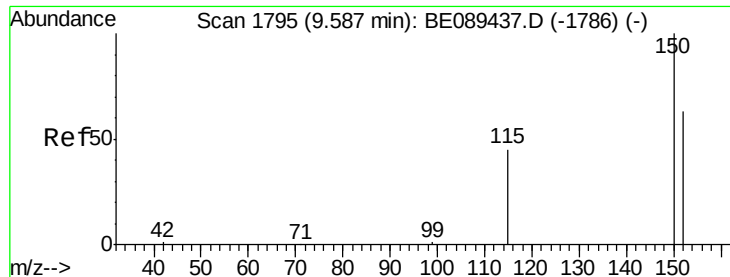
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.01 min

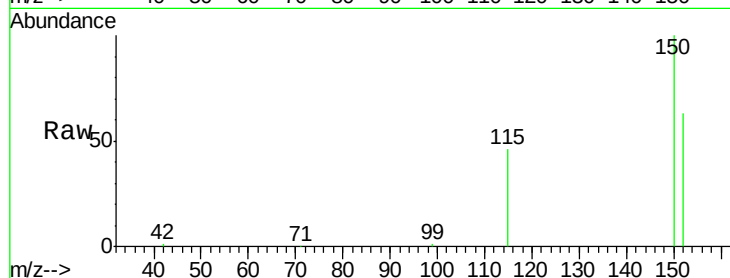
Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :



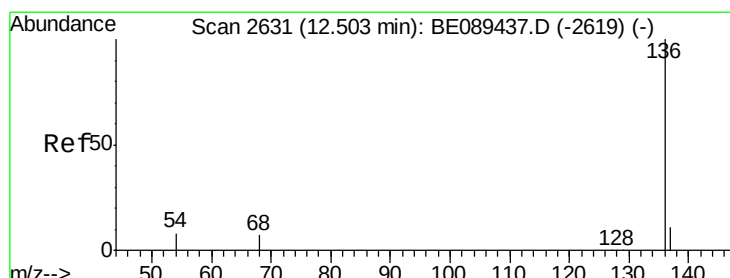
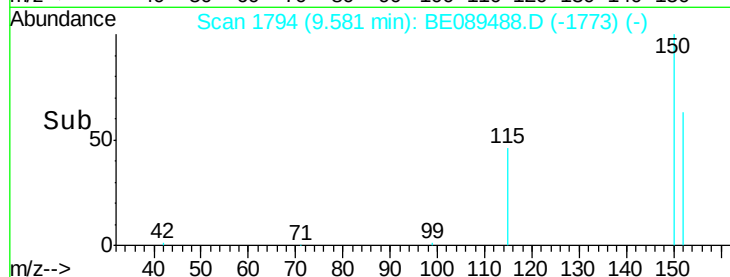
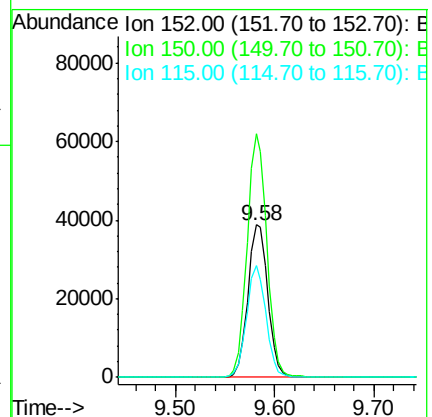
Tgt Ion:152 Resp: 54357

Ion Ratio Lower Upper

152 100

150 159.6 127.2 190.8

115 73.1 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

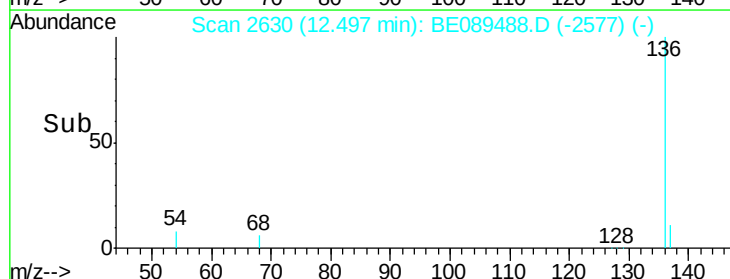
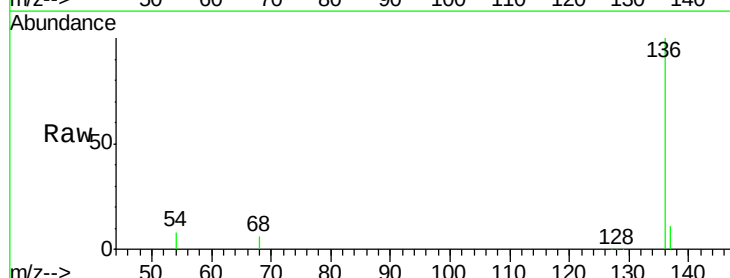
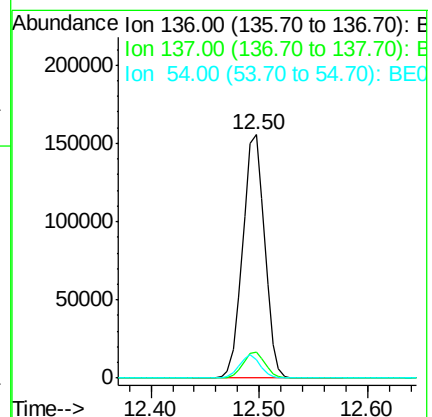
Tgt Ion:136 Resp: 219153

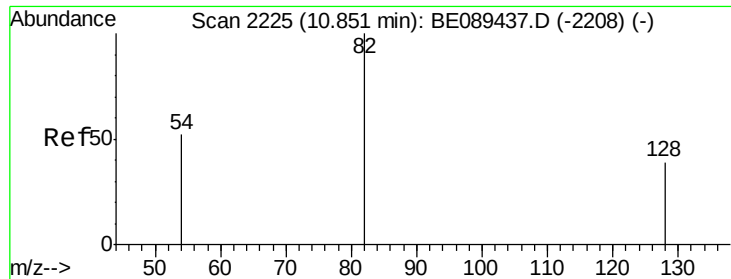
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 7.6 6.6 10.0





#3

Nitrobenzene-d5

Concen: 9.83 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :

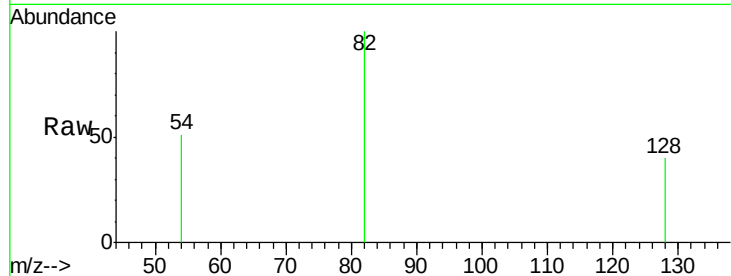
Tgt Ion: 82 Resp: 142676

Ion Ratio Lower Upper

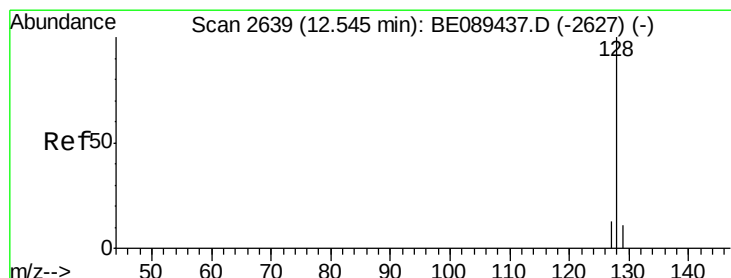
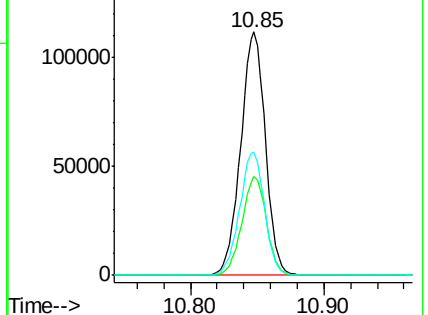
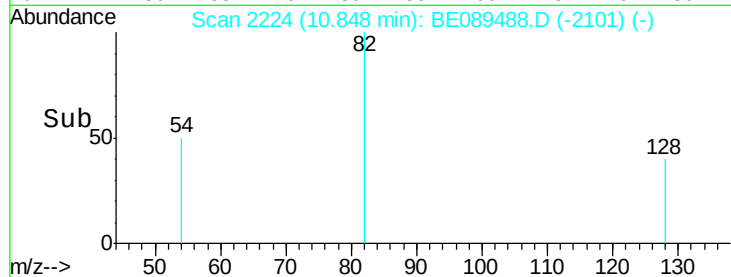
82 100

128 40.4 31.2 46.8

54 50.5 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.15 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

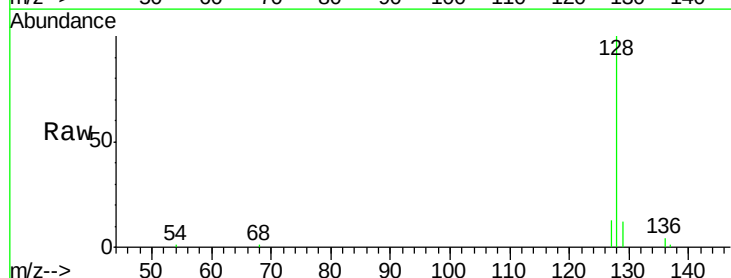
Tgt Ion: 128 Resp: 7601

Ion Ratio Lower Upper

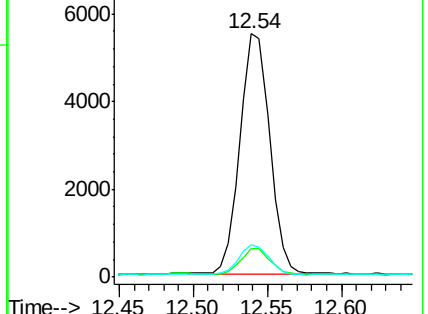
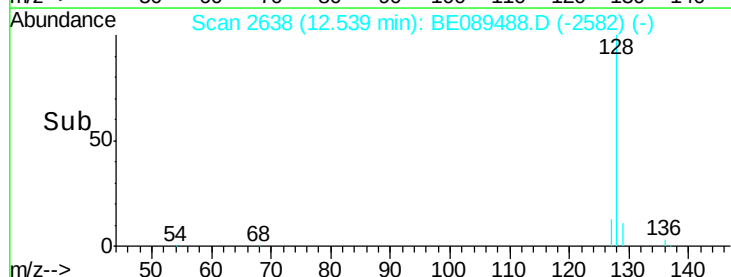
128 100

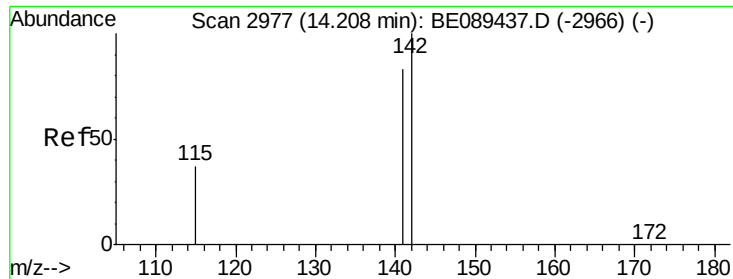
129 11.7 8.8 13.2

127 13.4 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.14 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.00 min

Lab File: BE089488.D

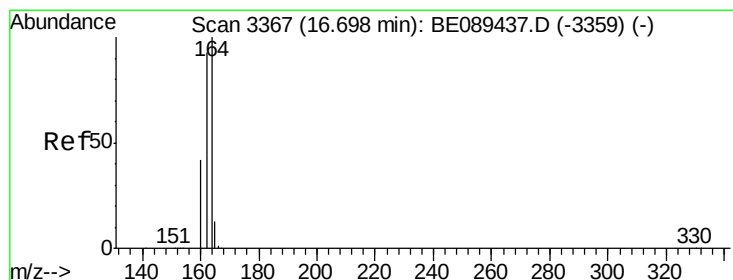
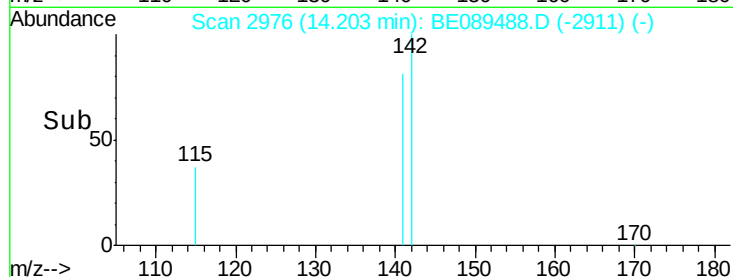
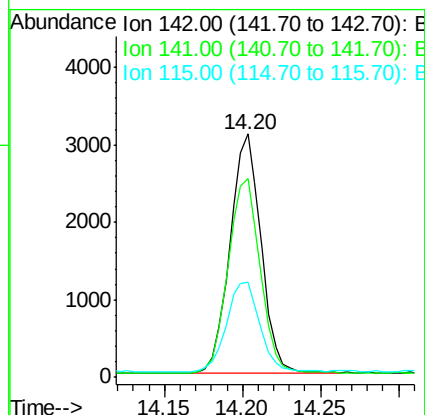
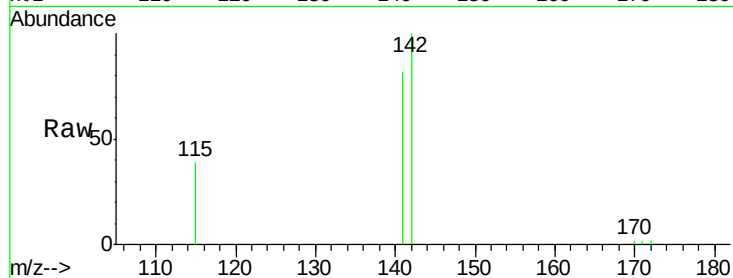
Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	4270
Ion Ratio	Lower	Upper	
142	100		
141	81.7	66.1	99.1
115	39.0	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

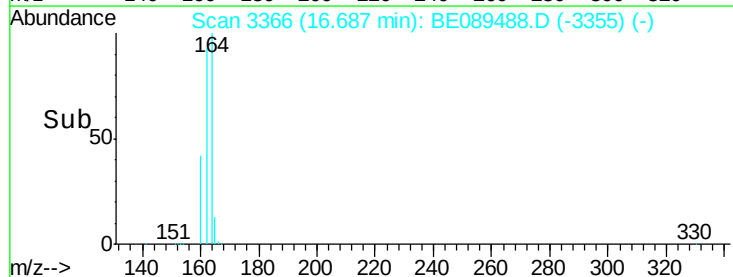
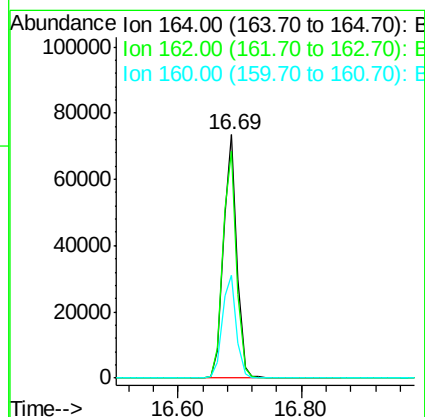
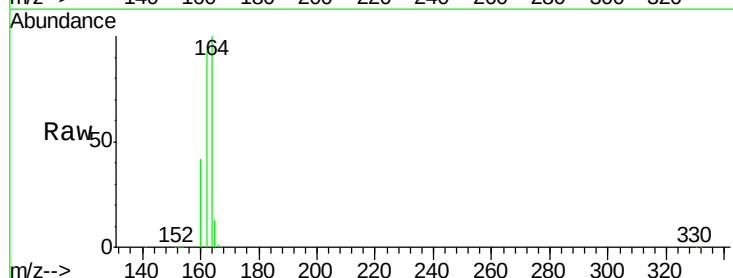
RT: 16.69 min Scan# 3366

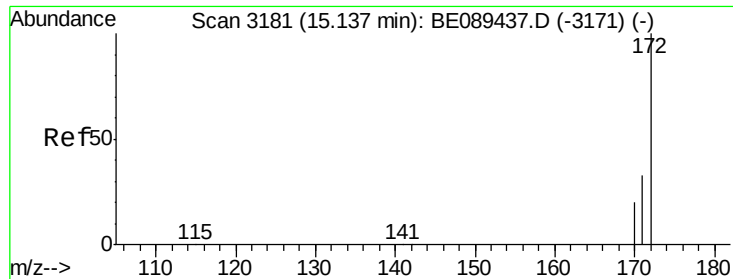
Delta R.T. -0.01 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Tgt Ion:	164	Resp:	109641
Ion Ratio	Lower	Upper	
164	100		
162	93.1	74.7	112.1
160	42.0	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 8.56 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :

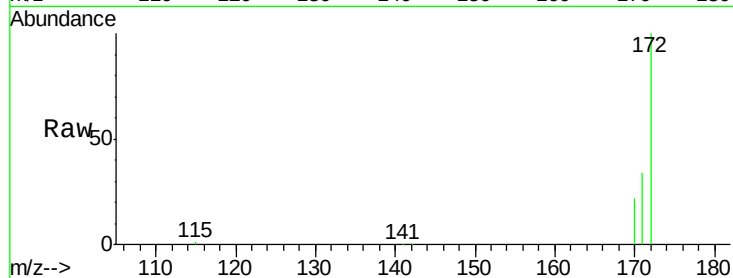
Tgt Ion:172 Resp: 247215

Ion Ratio Lower Upper

172 100

171 33.6 26.2 39.4

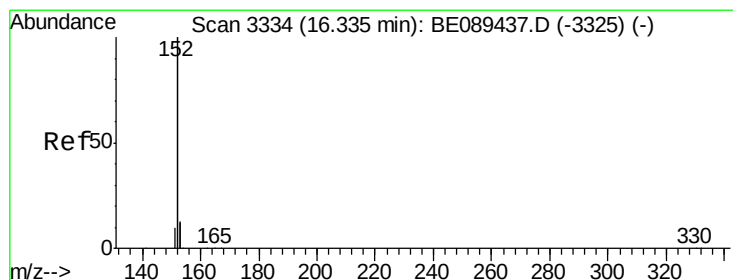
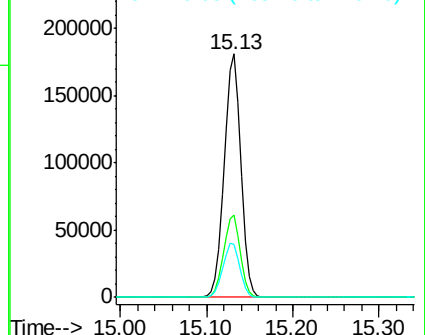
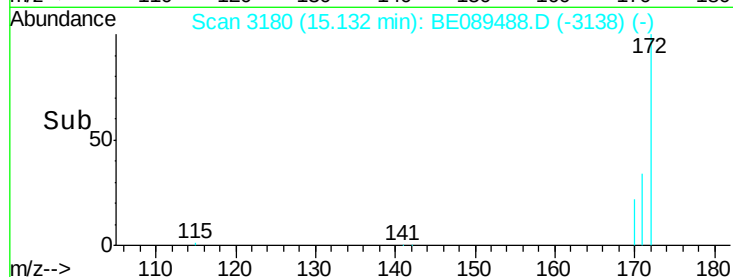
170 21.8 16.5 24.7



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: 0.11 ng

RT: 16.34 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

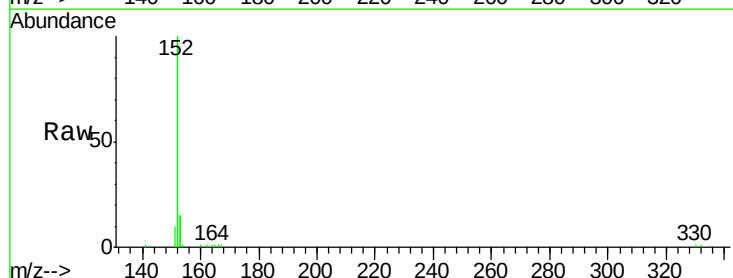
Tgt Ion:152 Resp: 21802

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

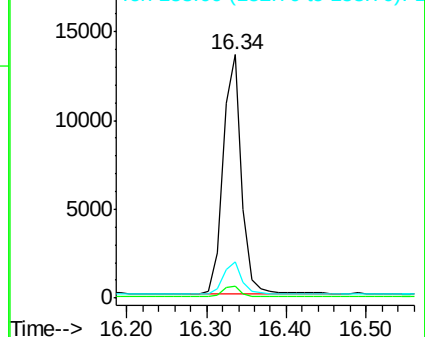
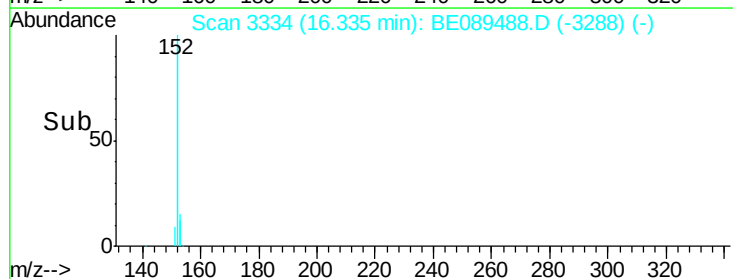
153 13.7 10.3 15.5

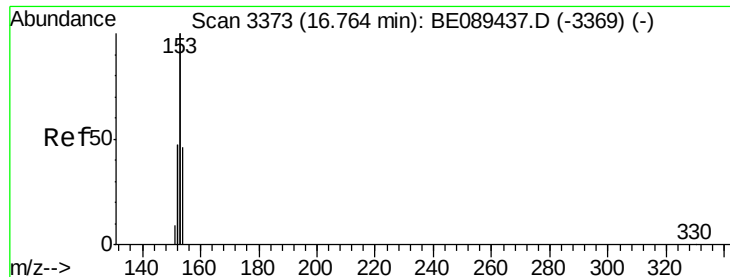


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.13 ng

RT: 16.75 min Scan# 3372

Delta R.T. -0.01 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :

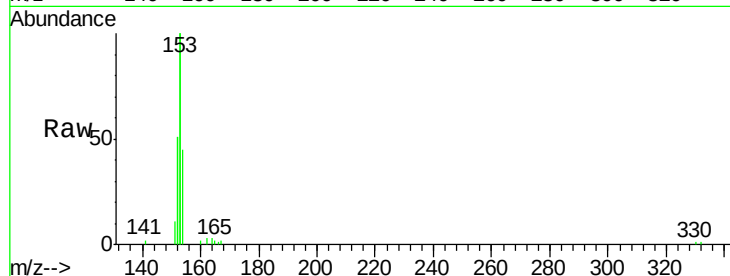
Tgt Ion:154 Resp: 3874

Ion Ratio Lower Upper

154 100

153 429.5 342.3 513.5

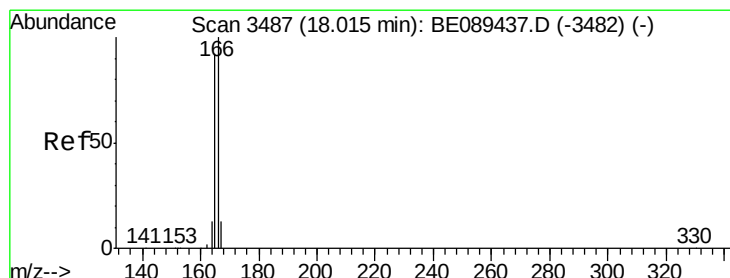
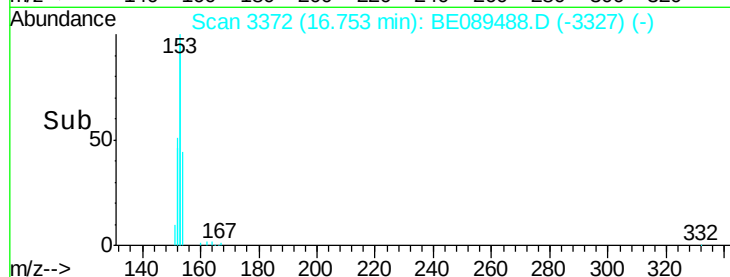
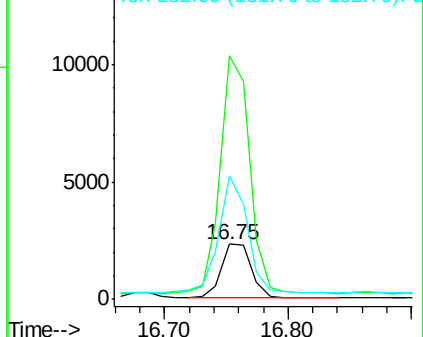
152 212.9 165.5 248.3



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: 0.13 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

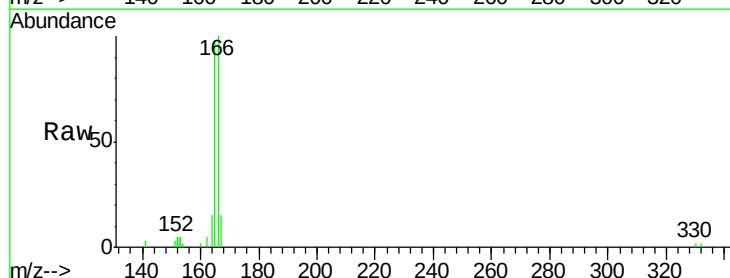
Tgt Ion:166 Resp: 4176

Ion Ratio Lower Upper

166 100

165 95.7 74.4 111.6

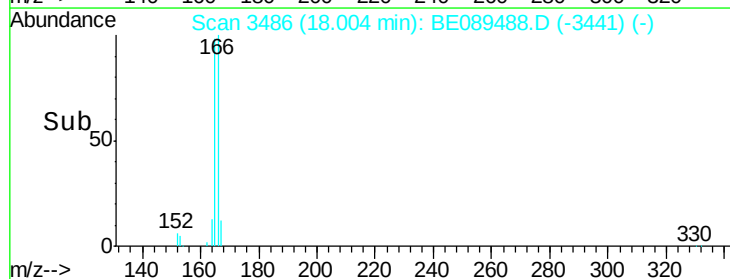
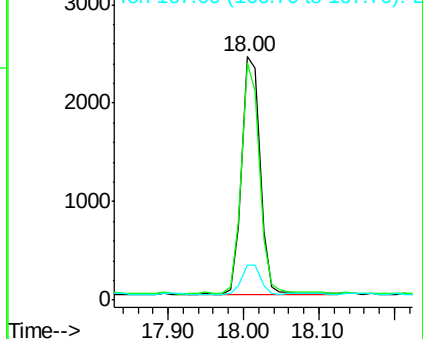
167 13.7 10.6 15.8

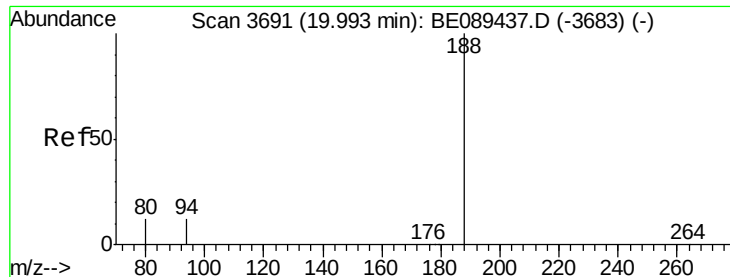


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

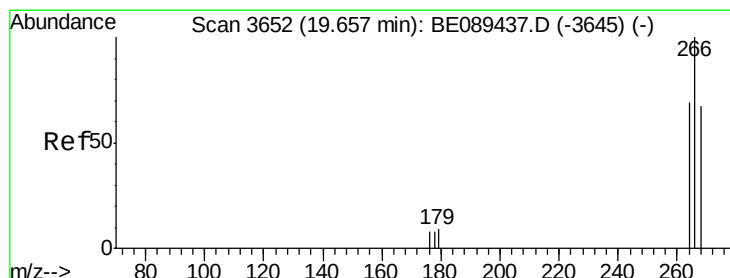
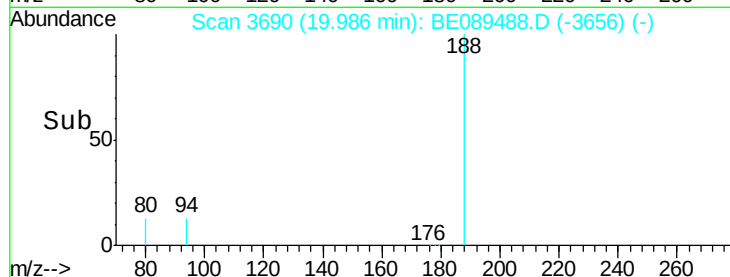
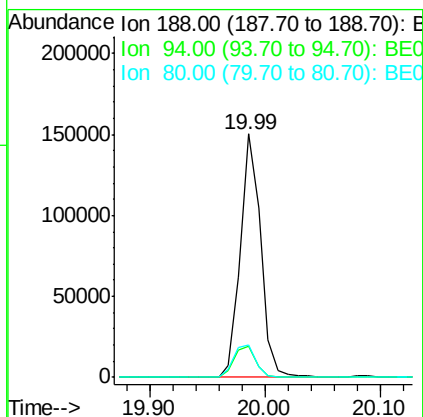
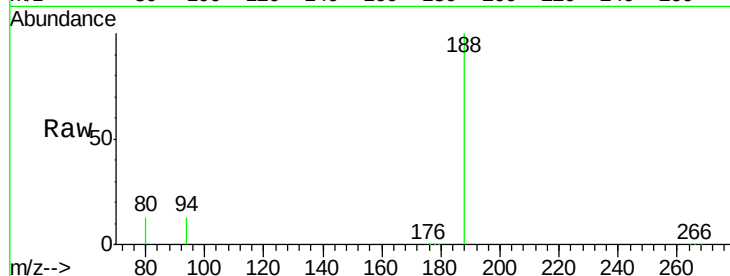




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089488.D
Acq: 1 Feb 2015 6:25

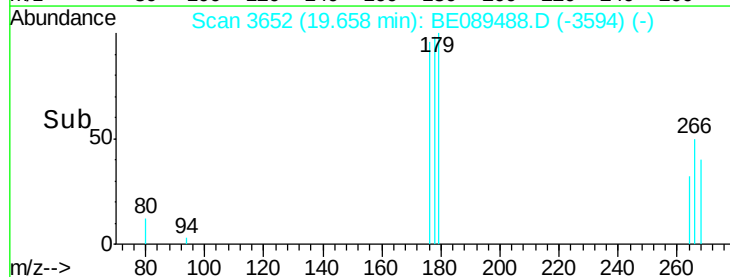
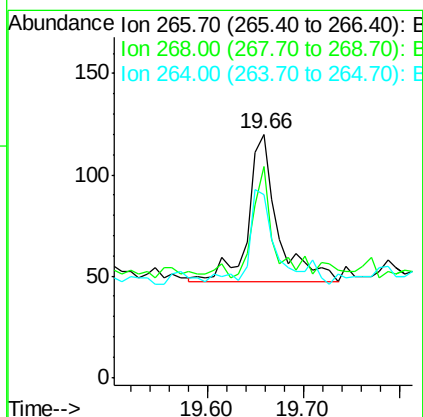
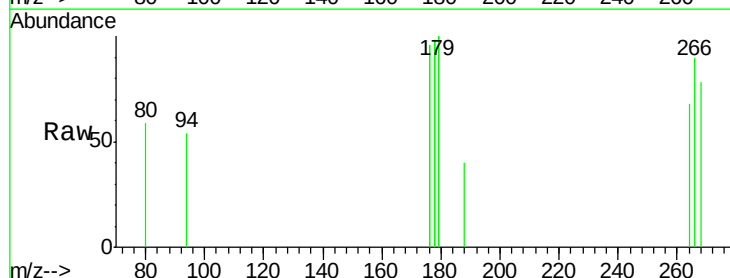
Instrument :
BNA_E
ClientSampleId :

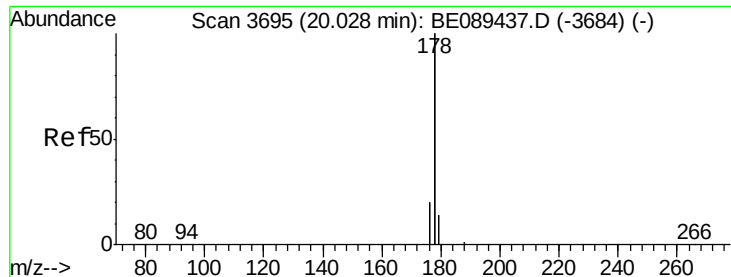
Tgt Ion:188 Resp: 184939
Ion Ratio Lower Upper
188 100
94 12.9 9.4 14.0
80 13.3 9.3 13.9



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089488.D
Acq: 1 Feb 2015 6:25

Tgt Ion:266 Resp: 158
Ion Ratio Lower Upper
266 100
268 86.7 54.2 81.4#
264 75.0 56.2 84.2





#13

Phenanthrene

Concen: 0.15 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampled :

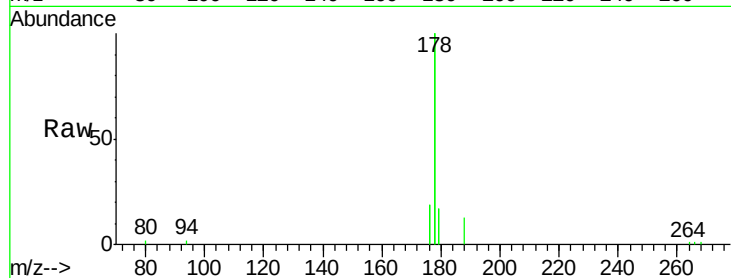
Tgt Ion:178 Resp: 27370

Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

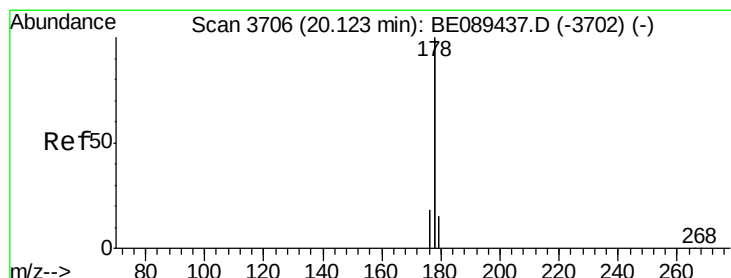
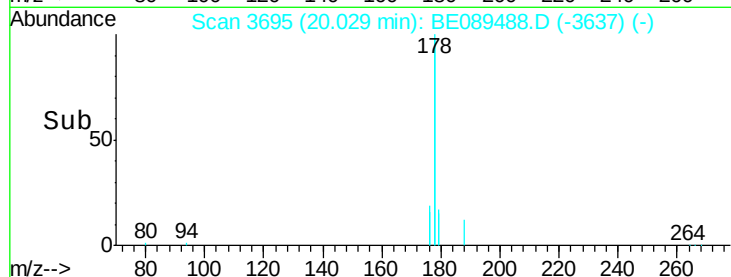
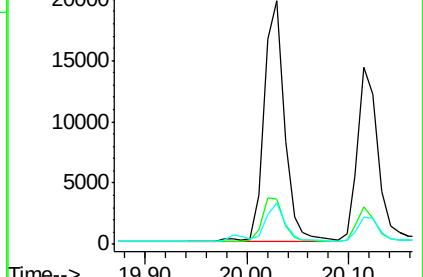
179 14.7 12.3 18.5



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: 0.12 ng

RT: 20.12 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

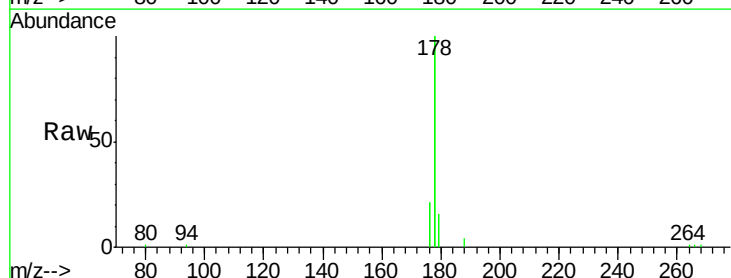
Tgt Ion:178 Resp: 20540

Ion Ratio Lower Upper

178 100

176 18.4 14.6 22.0

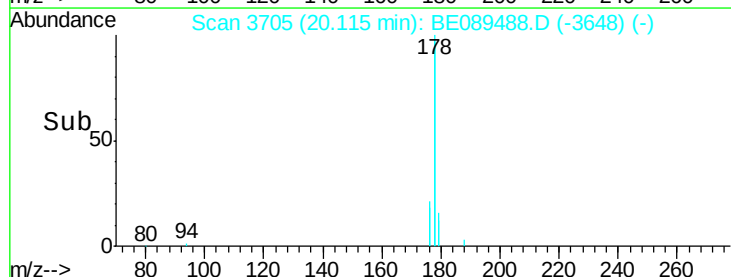
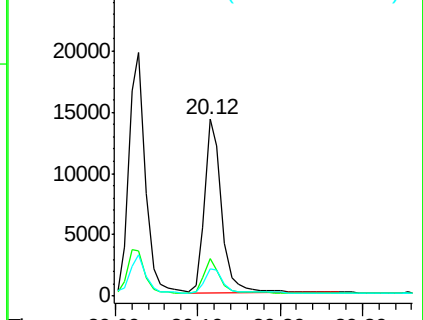
179 15.0 12.2 18.2

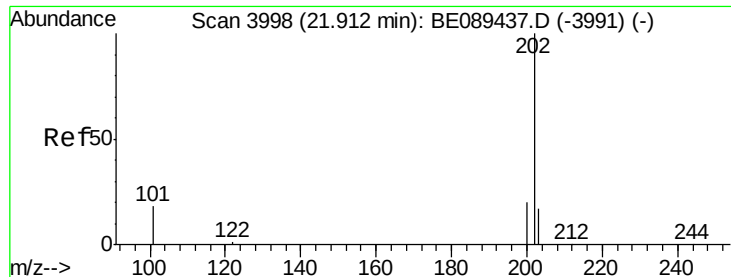


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

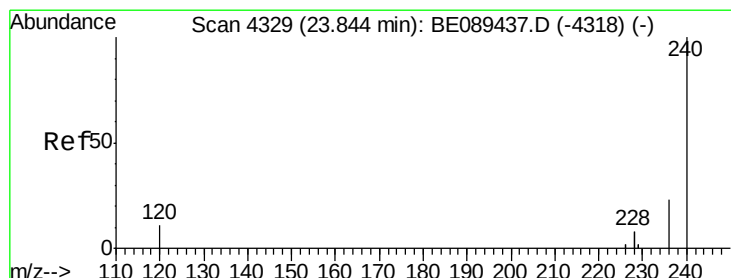
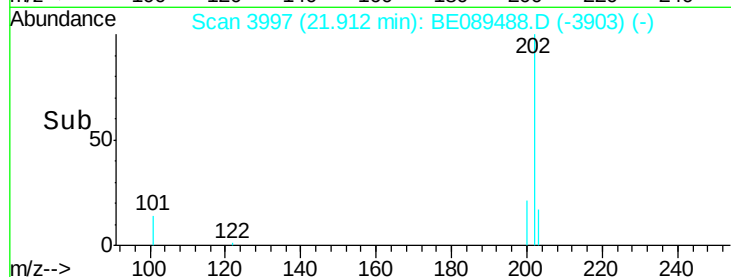
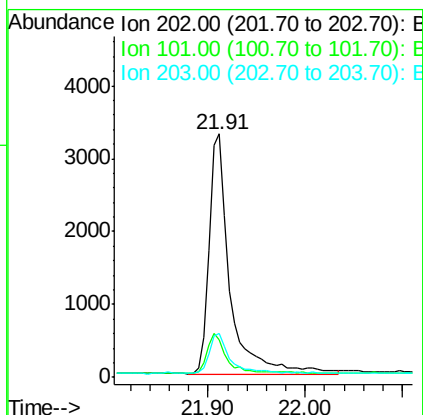
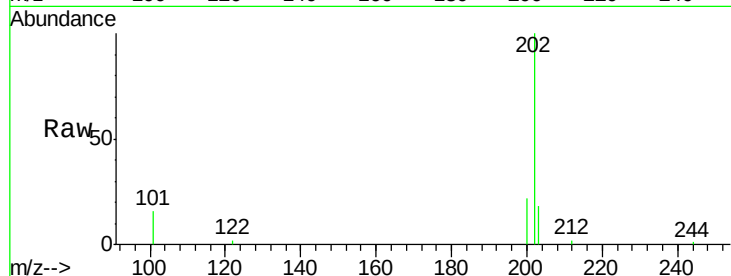




#15
Fluoranthene
Concen: 0.12 ng
RT: 21.91 min Scan# 3997
Delta R.T. -0.00 min
Lab File: BE089488.D
Acq: 1 Feb 2015 6:25

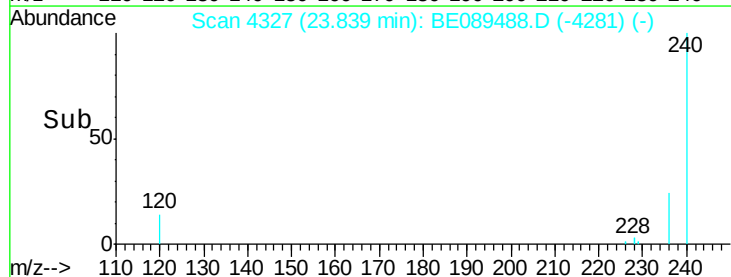
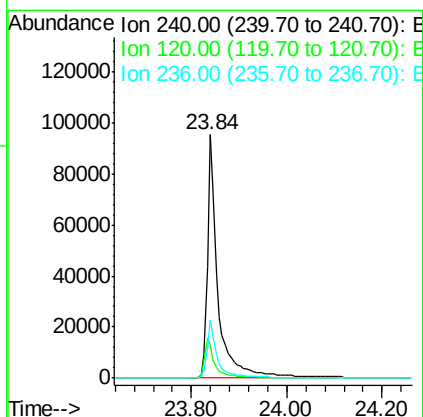
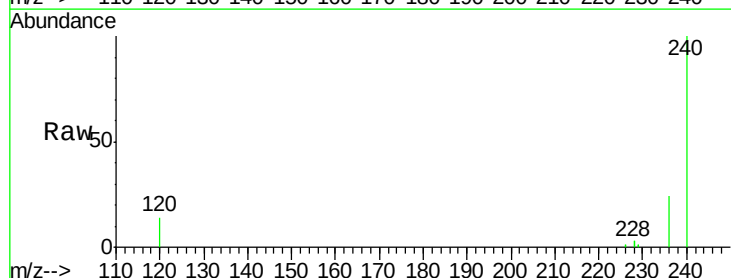
Instrument :
BNA_E
ClientSampleId :

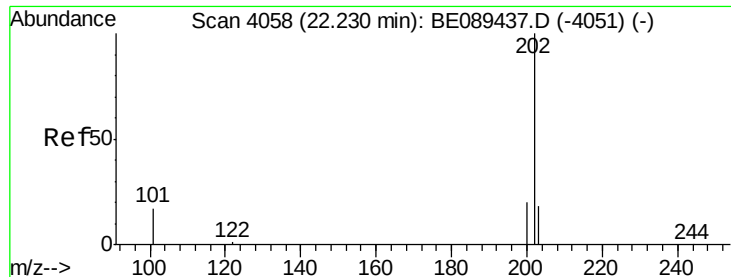
Tgt Ion:202 Resp: 4904
Ion Ratio Lower Upper
202 100
101 15.0 13.6 20.4
203 16.9 13.8 20.6



#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.84 min Scan# 4327
Delta R.T. -0.01 min
Lab File: BE089488.D
Acq: 1 Feb 2015 6:25

Tgt Ion:240 Resp: 150036
Ion Ratio Lower Upper
240 100
120 13.8 8.6 13.0#
236 24.0 18.7 28.1

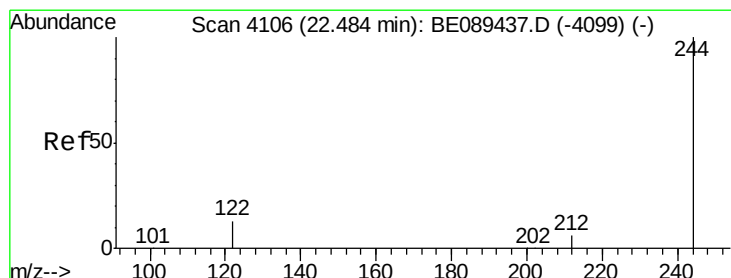
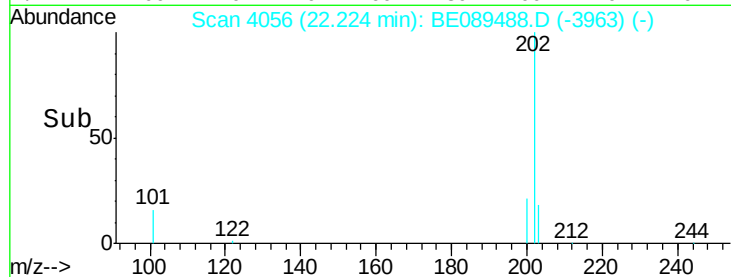
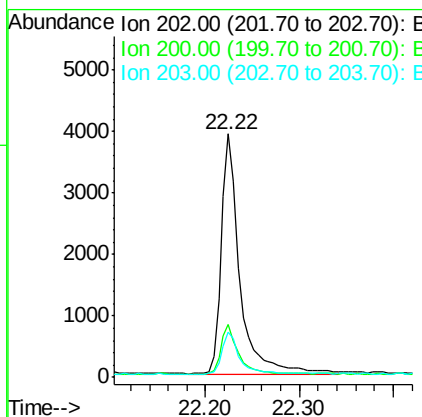
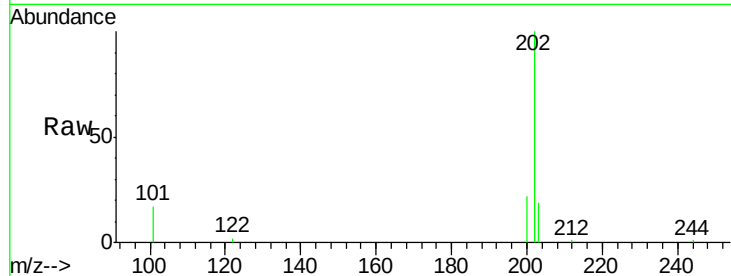




#17
 Pyrene
 Concen: 0.14 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089488.D
 Acq: 1 Feb 2015 6:25

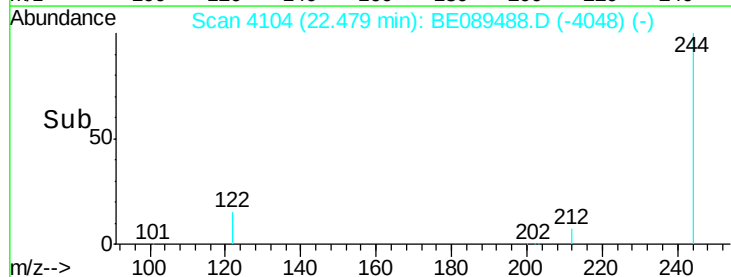
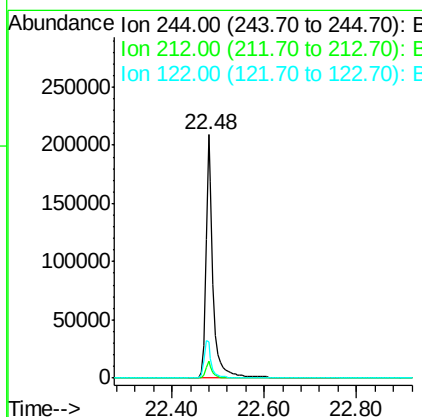
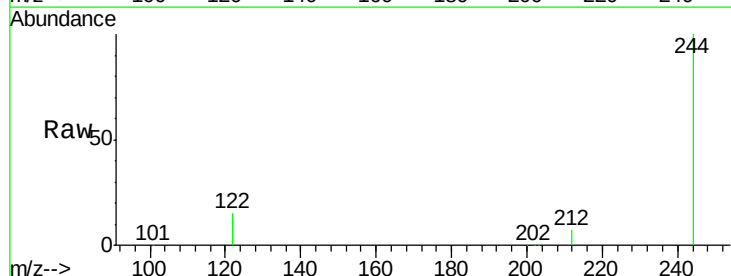
Instrument :
 BNA_E
 ClientSampleId :

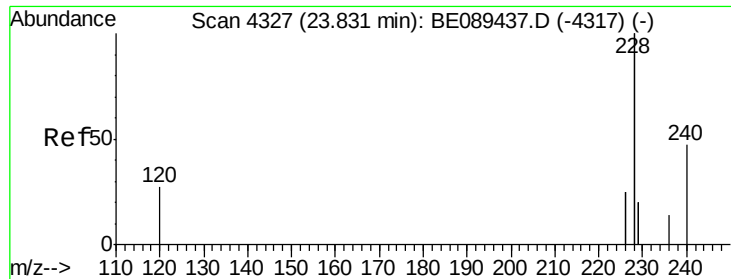
Tgt Ion: 202 Resp: 5387
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.2 24.4
 203 16.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 10.53 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089488.D
 Acq: 1 Feb 2015 6:25

Tgt Ion: 244 Resp: 236498
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.0 7.6
 122 15.0 10.2 15.4





#19

Benzo(a)anthracene

Concen: 0.10 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :

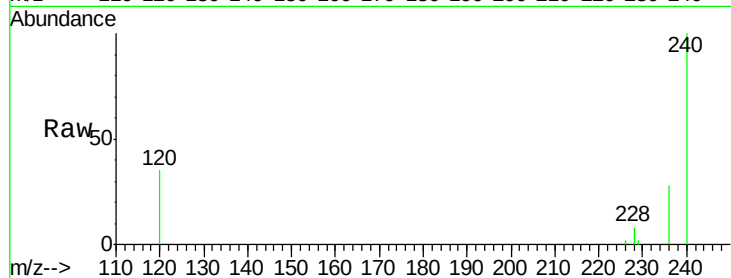
Tgt Ion:228 Resp: 12185

Ion Ratio Lower Upper

228 100

226 27.1 20.0 30.0

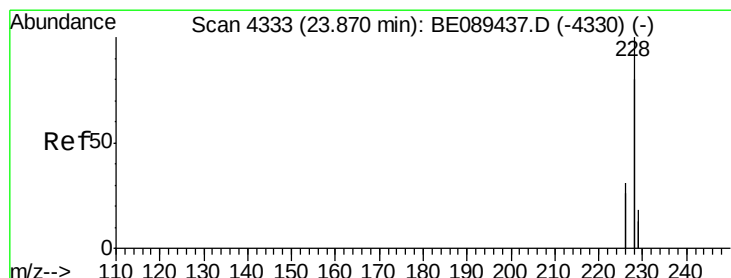
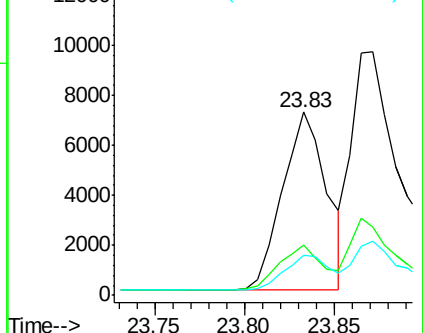
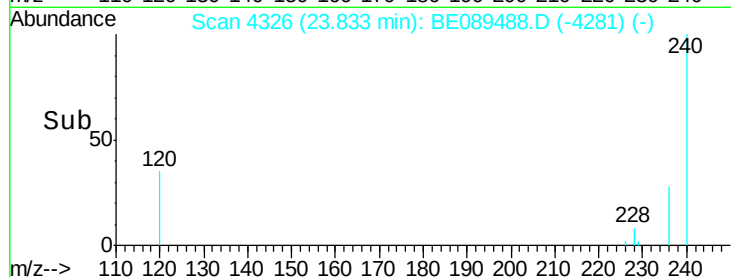
229 22.1 16.0 24.0



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: 0.17 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

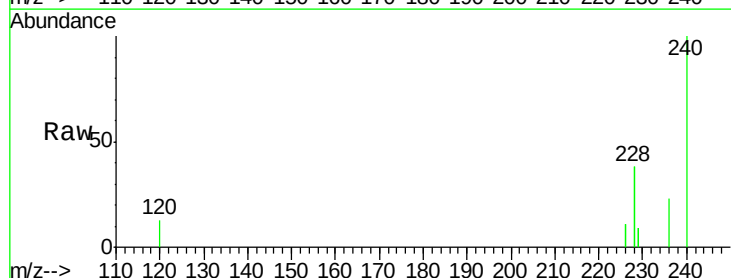
Tgt Ion:228 Resp: 24165

Ion Ratio Lower Upper

228 100

226 27.9 24.5 36.7

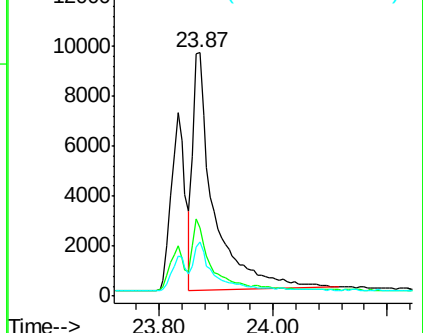
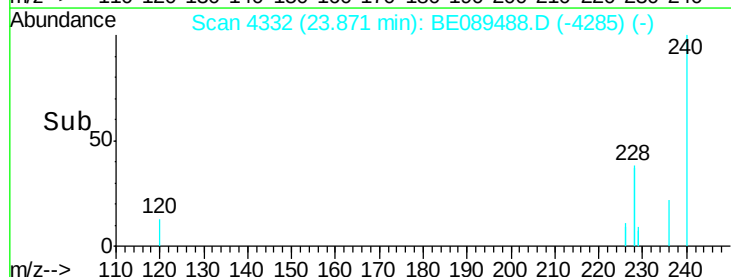
229 22.3 14.1 21.1#

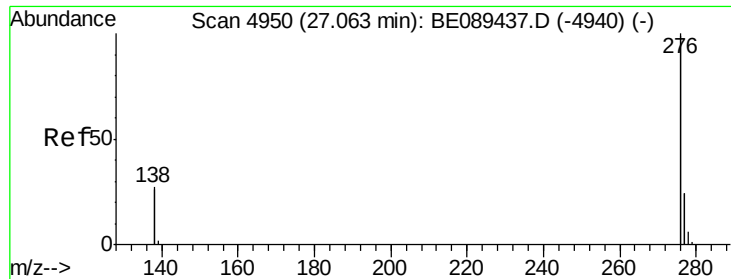


Abundance Ion 228.00 (227.70 to 228.70): E

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: 27.05 min Scan# 4947

Delta R.T. -0.01 min

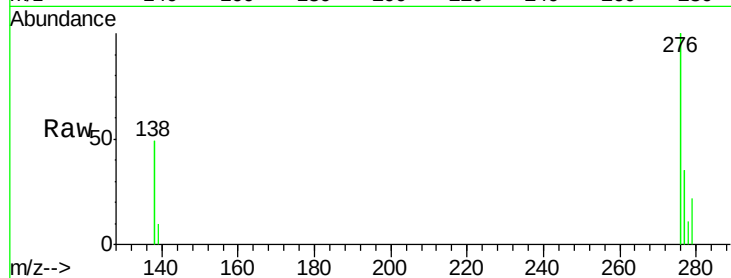
Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :



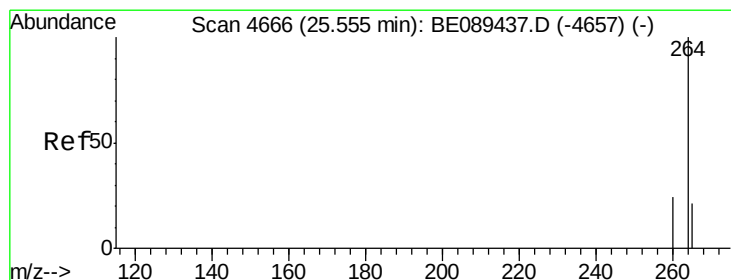
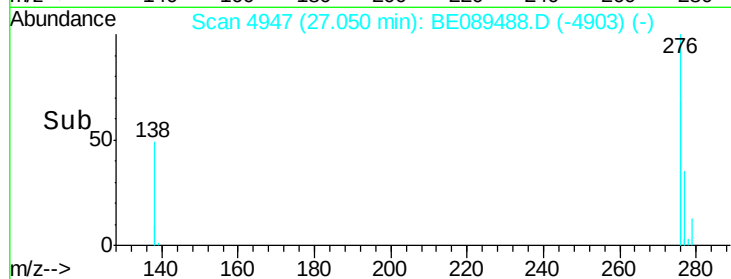
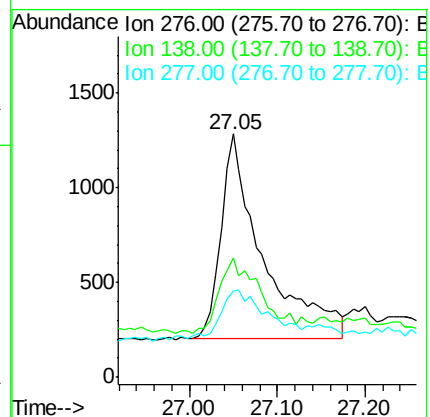
Tgt Ion:276 Resp: 3590

Ion Ratio Lower Upper

276 100

138 37.7 25.4 38.0

277 26.1 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: BE089488.D

Acq: 1 Feb 2015 6:25

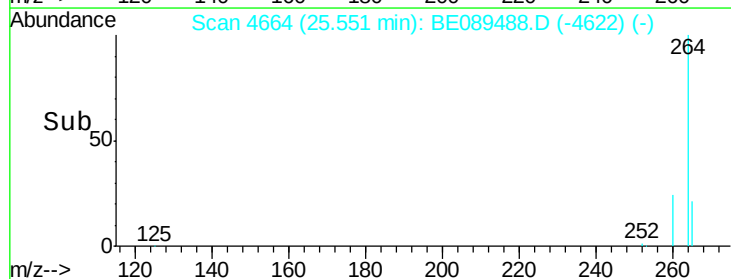
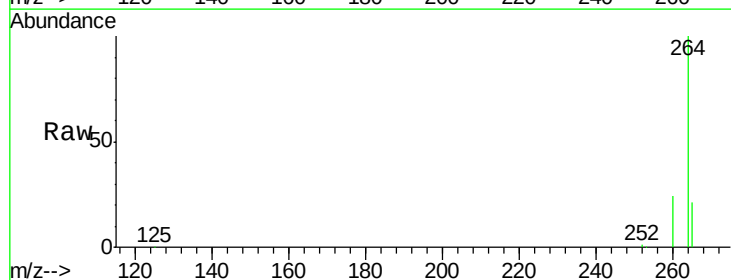
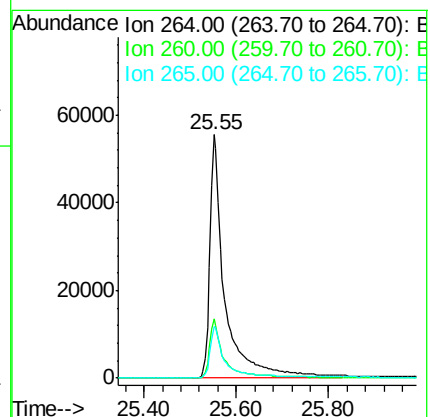
Tgt Ion:264 Resp: 124750

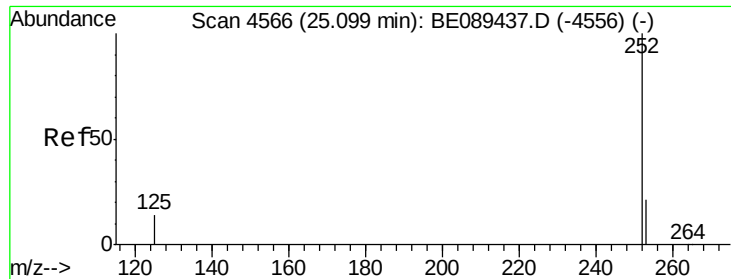
Ion Ratio Lower Upper

264 100

260 24.2 19.4 29.0

265 21.0 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 25.09 min Scan# 4563

Delta R.T. -0.01 min

Lab File: BE089488.D

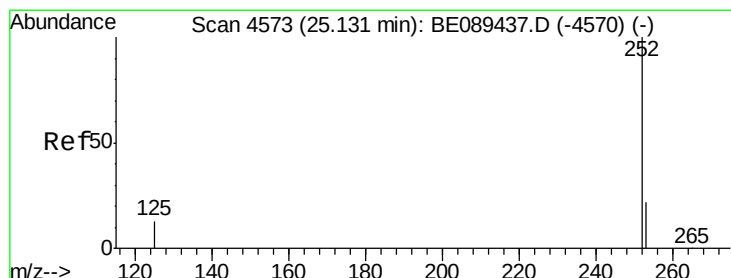
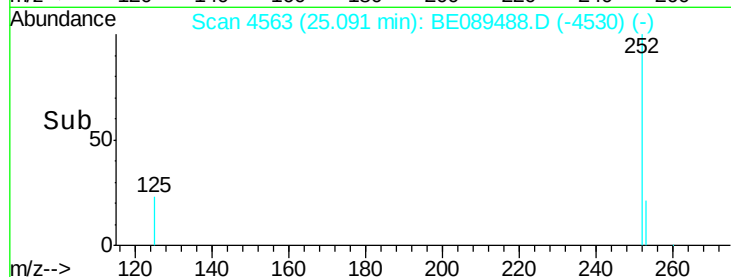
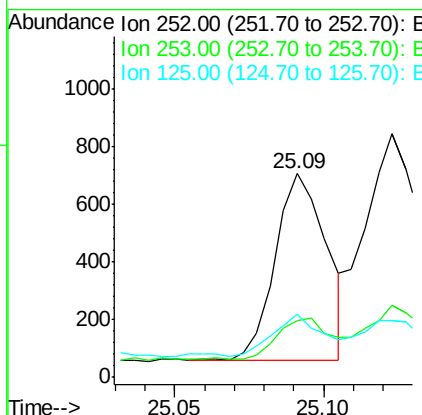
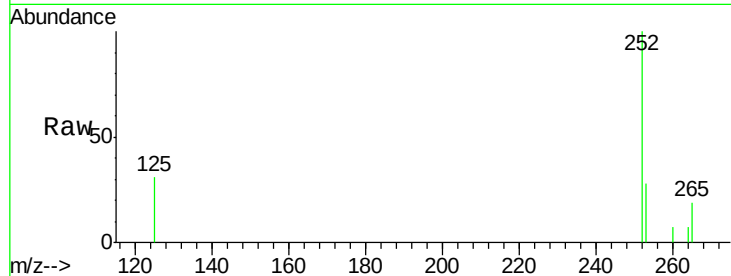
Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	777
Ion Ratio	Lower	Upper	
252	100		
253	27.6	17.0	25.6#
125	31.3	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

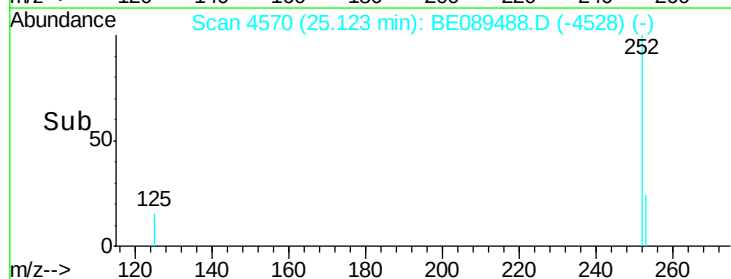
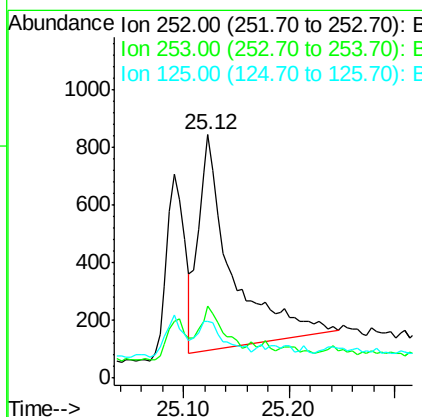
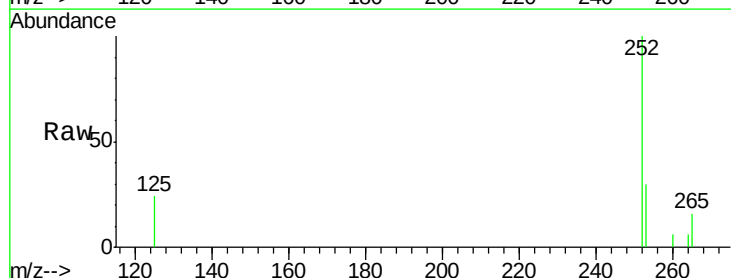
RT: 25.12 min Scan# 4570

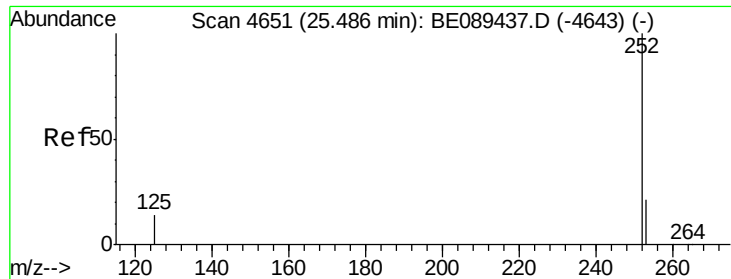
Delta R.T. -0.01 min

Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Tgt Ion:	252	Resp:	1631
Ion Ratio	Lower	Upper	
252	100		
253	29.7	17.4	26.2#
125	23.6	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.47 min Scan# 4647

Delta R.T. -0.01 min

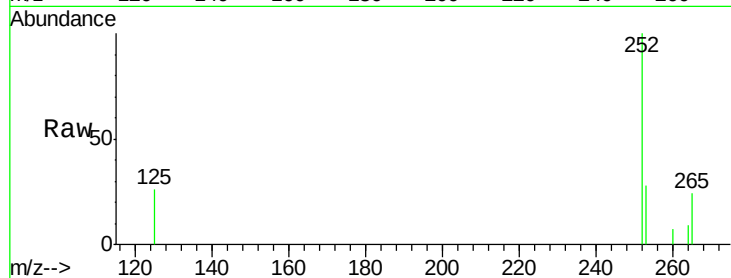
Lab File: BE089488.D

Acq: 1 Feb 2015 6:25

Instrument :

BNA_E

ClientSampleId :



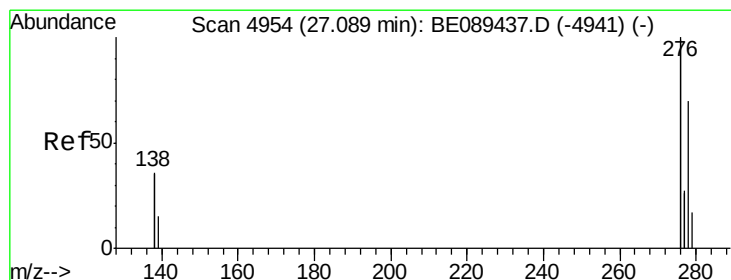
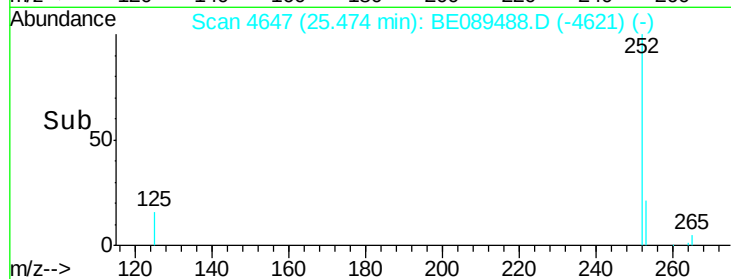
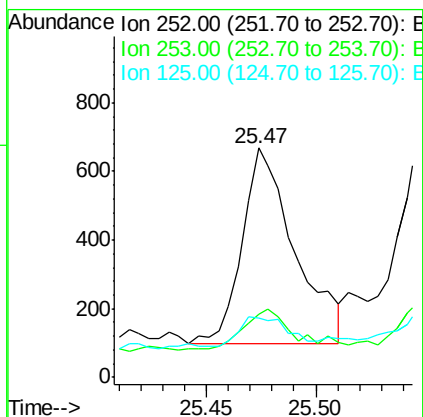
Tgt Ion: 252 Resp: 954

Ion Ratio Lower Upper

252 100

253 27.6 17.3 25.9#

125 26.1 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: BE089488.D

Acq: 1 Feb 2015 6:25

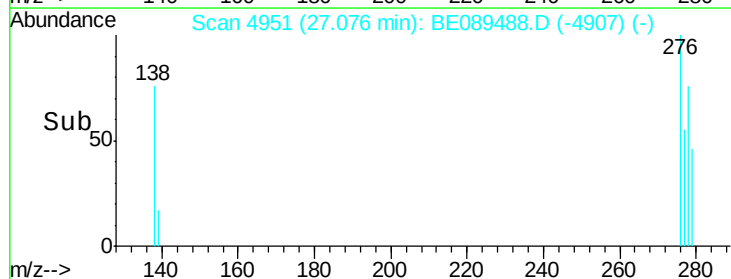
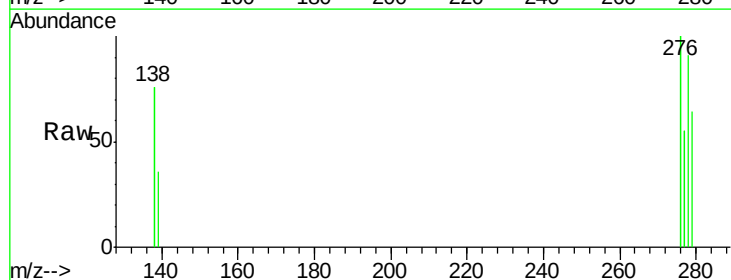
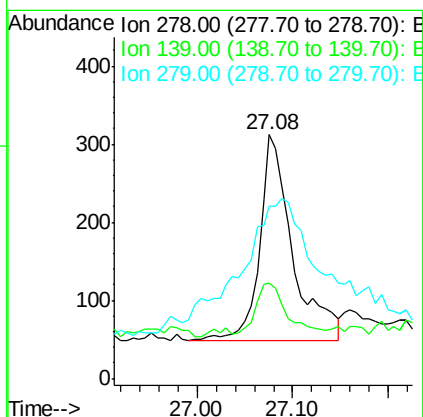
Tgt Ion: 278 Resp: 642

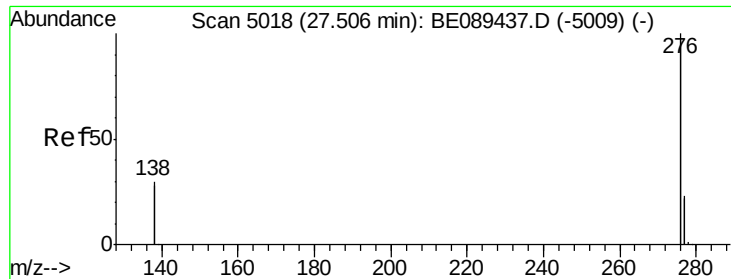
Ion Ratio Lower Upper

278 100

139 39.4 17.0 25.4#

279 70.8 19.1 28.7#





#27
 Benzo(g,h,i)perylene
 Concen: 0.05 ng
 RT: 27.50 min Scan# 5016
 Delta R.T. -0.01 min
 Lab File: BE089488.D
 Acq: 1 Feb 2015 6:25

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 5404
 Ion Ratio Lower Upper
 276 100
 277 33.3 18.4 27.6#
 138 40.1 23.7 35.5#

