

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089462.D
 Acq On : 31 Jan 2015 8:21
 Operator : TP/IZ
 Sample : MDL-05-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 00:33:29 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	9.59	152	49493	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	208016	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	111946	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	182271	5.00	ng	0.00
16) Chrysene-d12	23.85	240	139368	5.00	ng	0.00
22) Perylene-d12	25.55	264	118620	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	107104	7.78	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	203680	6.91	ng	0.00
18) Terphenyl-d14	22.48	244	174585	8.37	ng	0.00

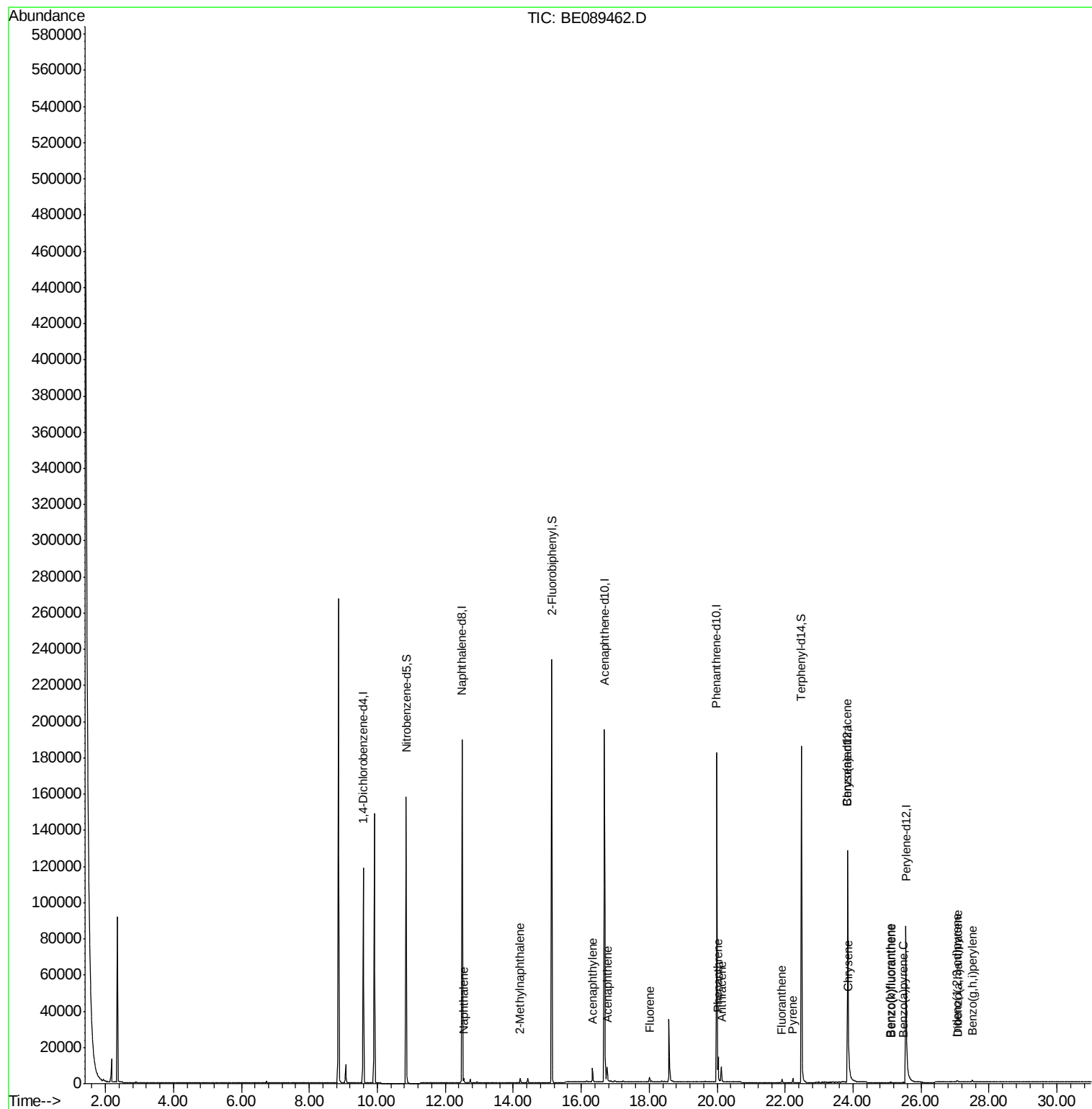
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	2841	0.06	ng	98
5) 2-Methylnaphthalene	14.20	142	1723	0.06	ng	97
8) Acenaphthylene	16.34	152	10018	0.05	ng	97
9) Acenaphthene	16.76	154	1781	0.06	ng	90
10) Fluorene	18.02	166	1822	0.05	ng	100
12) Pentachlorophenol	19.66	266	246	Below Cal		94
13) Phenanthrene	20.03	178	11934	0.07	ng	100
14) Anthracene	20.12	178	8951	0.05	ng	98
15) Fluoranthene	21.91	202	1961	0.05	ng	98
17) Pyrene	22.22	202	2180	0.06	ng	97
19) Benzo(a)anthracene	23.83	228	6023	0.05	ng	97
20) Chrysene	23.87	228	9812	0.07	ng	# 94
21) Indeno(1,2,3-cd)pyrene	27.05	276	1501	0.01	ng	# 88
23) Benzo(b)fluoranthene	25.10	252	385	0.20	ng	# 51
24) Benzo(k)fluoranthene	25.13	252	507	0.02	ng	# 66
25) Benzo(a)pyrene	25.48	252	386	0.14	ng	# 48
26) Dibenzo(a,h)anthracene	27.09	278	316	0.14	ng	# 41
27) Benzo(g,h,i)perylene	27.51	276	2200	0.02	ng	# 61

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :

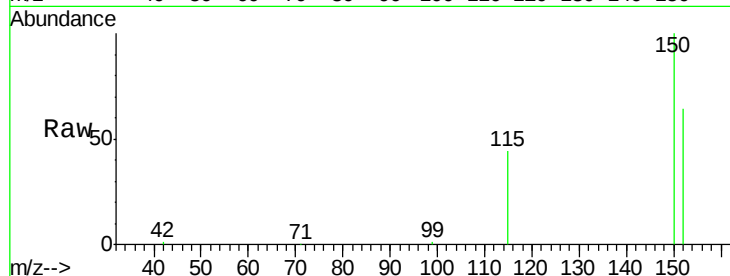
Tgt Ion:152 Resp: 49493

Ion Ratio Lower Upper

152 100

150 155.8 127.2 190.8

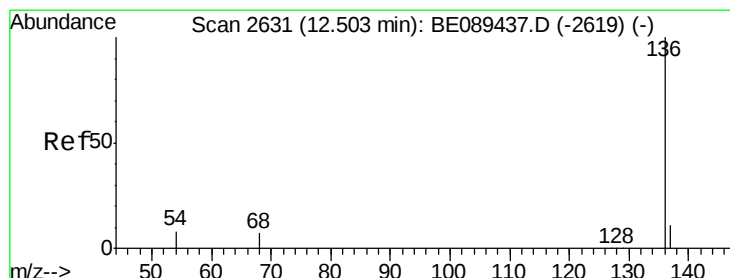
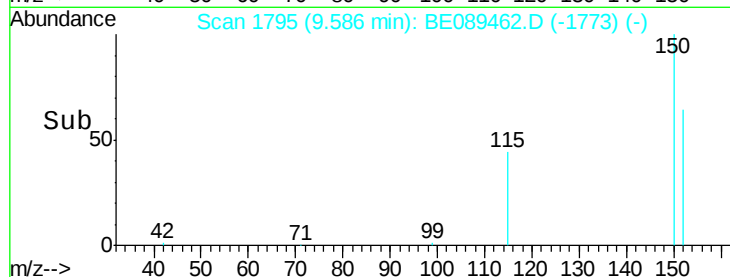
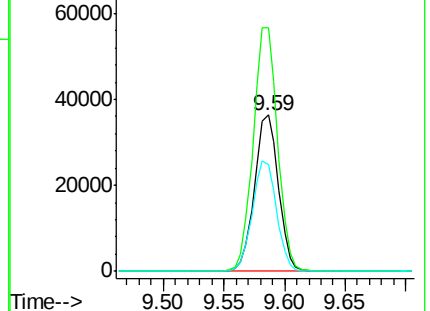
115 68.5 57.5 86.3



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: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

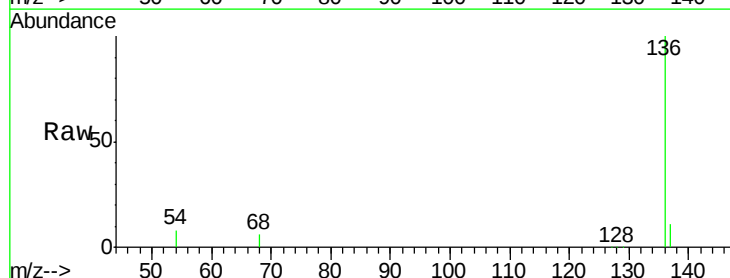
Tgt Ion:136 Resp: 208016

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

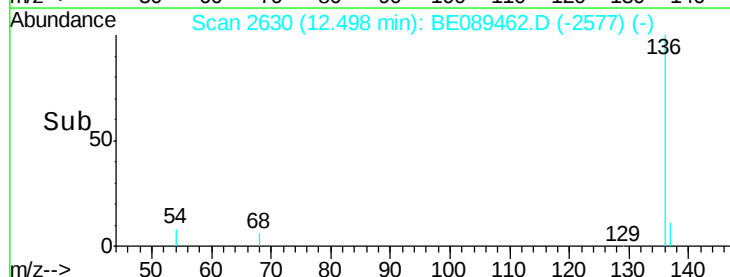
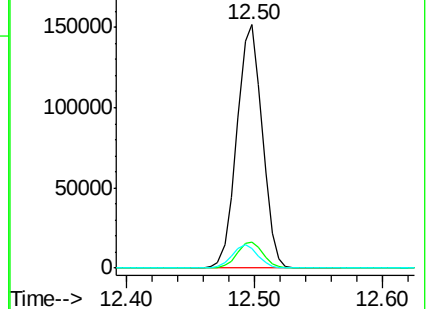
54 8.0 6.6 10.0



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: 7.78 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

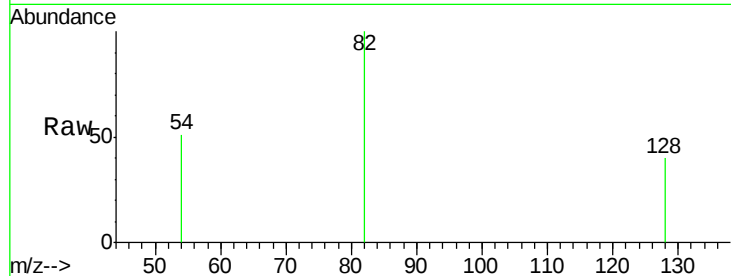
Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

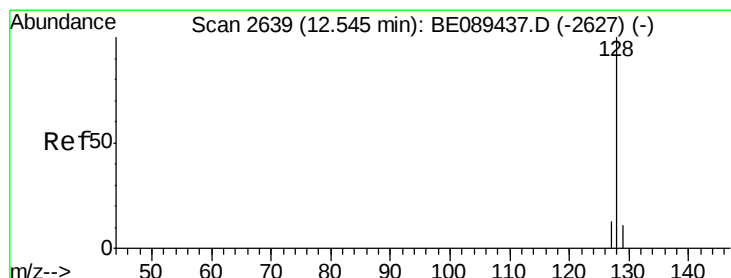
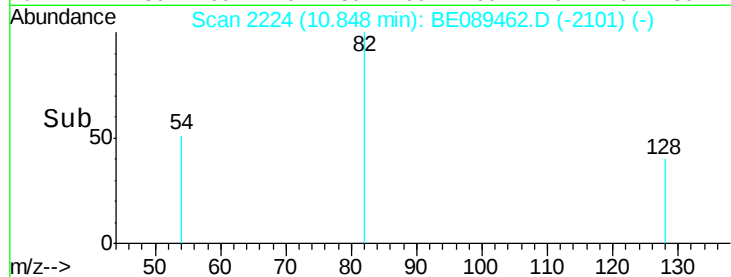
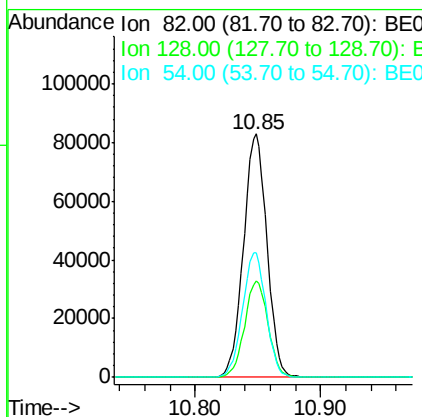
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	107104
Ion	Ratio	Lower	Upper
82	100		
128	39.6	31.2	46.8
54	51.1	41.9	62.9



#4

Naphthalene

Concen: 0.06 ng

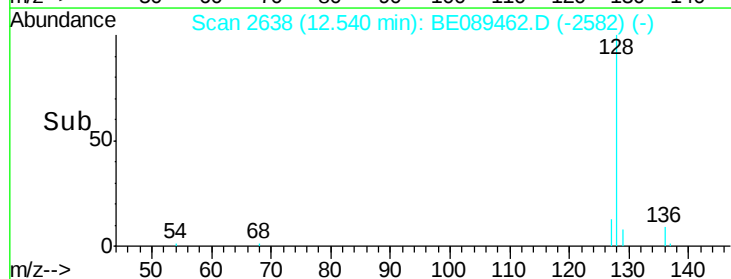
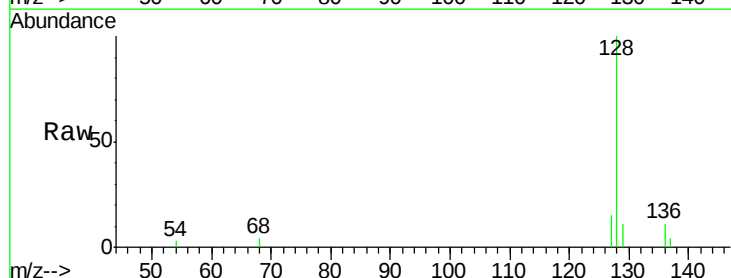
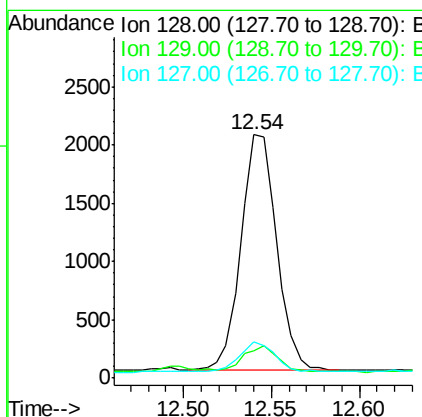
RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Tgt Ion:	128	Resp:	2841
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	15.0	10.6	16.0





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.00 min

Lab File: BE089462.D

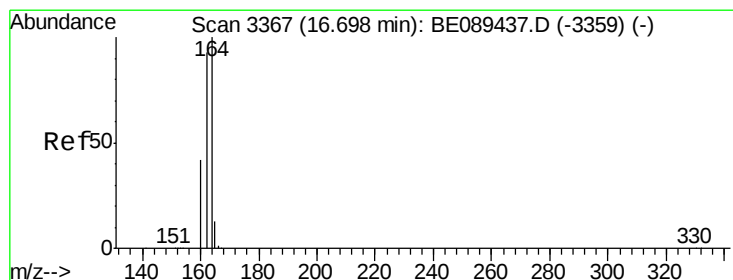
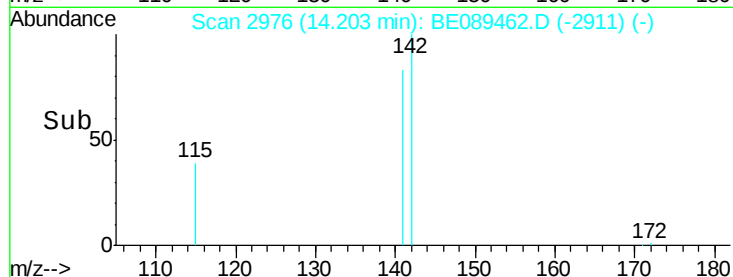
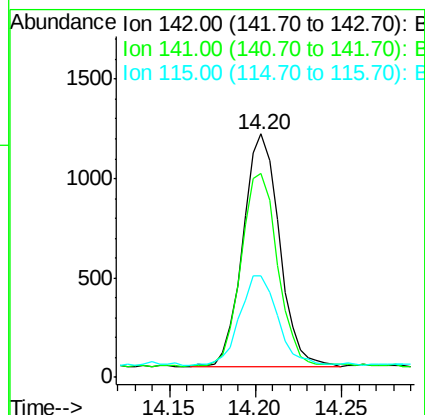
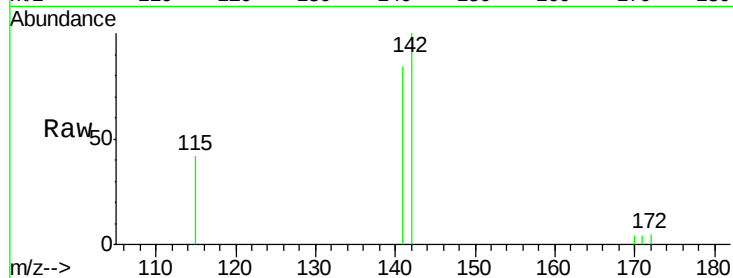
Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	1723
Ion Ratio	Lower	Upper	
142	100		
141	83.7	66.1	99.1
115	41.6	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

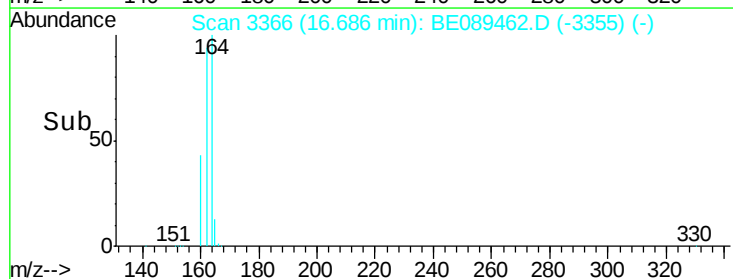
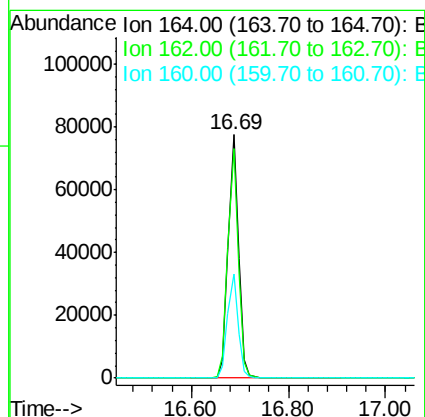
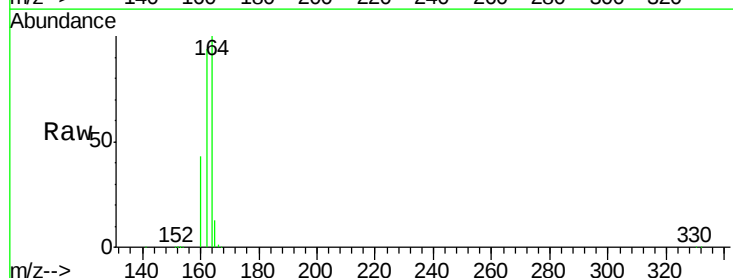
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Tgt Ion:	164	Resp:	111946
Ion Ratio	Lower	Upper	
164	100		
162	94.4	74.7	112.1
160	42.7	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 6.91 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :

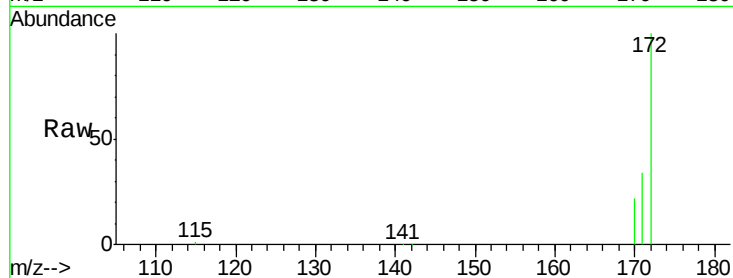
Tgt Ion:172 Resp: 203680

Ion Ratio Lower Upper

172 100

171 33.9 26.2 39.4

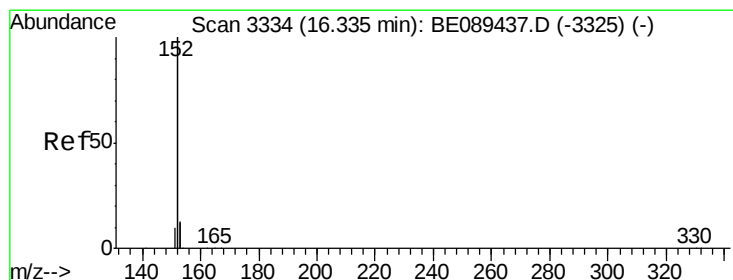
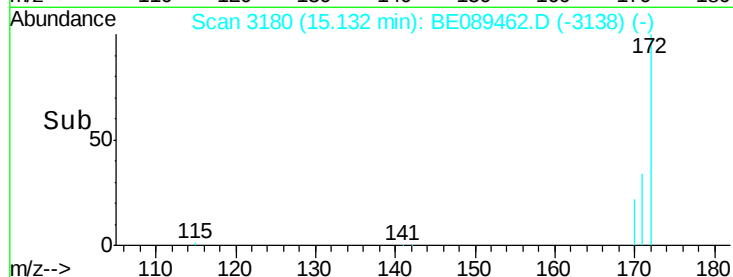
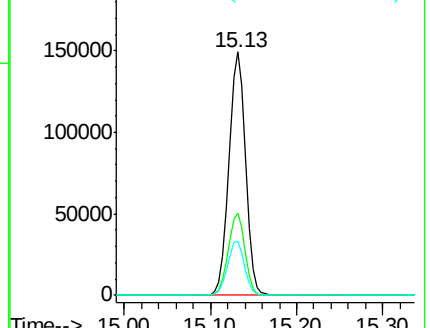
170 22.3 16.5 24.7



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: 0.05 ng

RT: 16.34 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

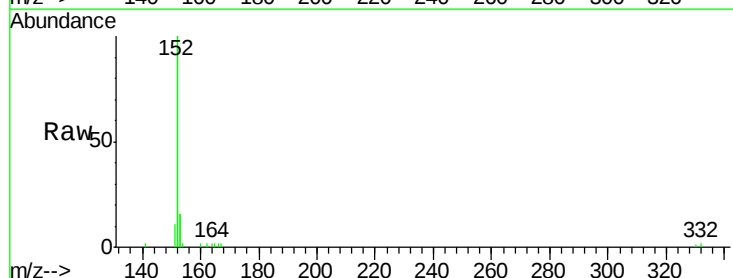
Tgt Ion:152 Resp: 10018

Ion Ratio Lower Upper

152 100

151 5.8 3.9 5.9

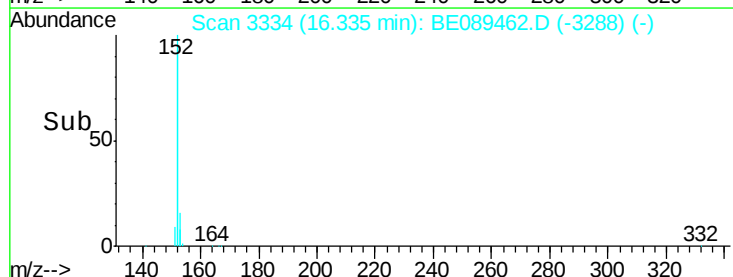
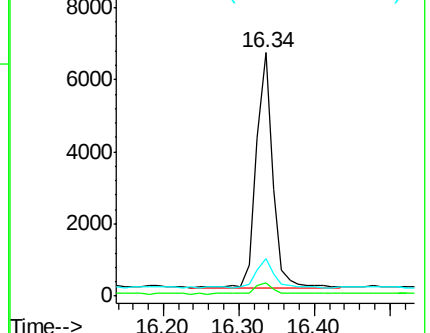
153 13.9 10.3 15.5



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: 0.06 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :

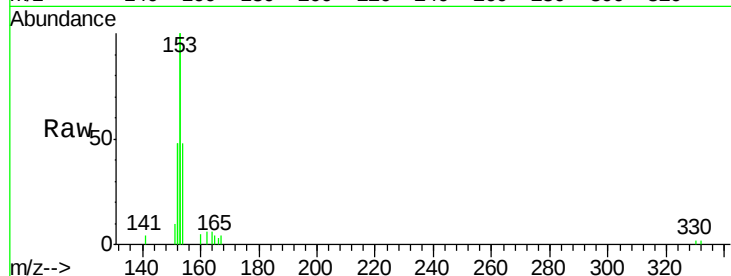
Tgt Ion:154 Resp: 1781

Ion Ratio Lower Upper

154 100

153 416.6 342.3 513.5

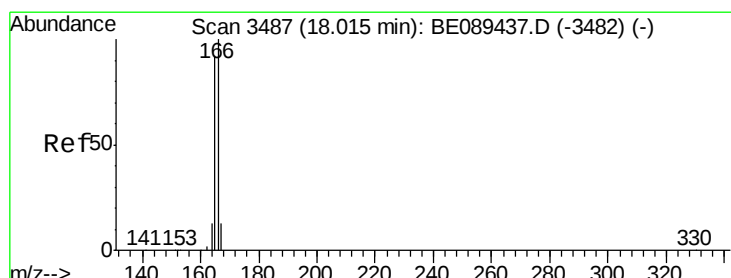
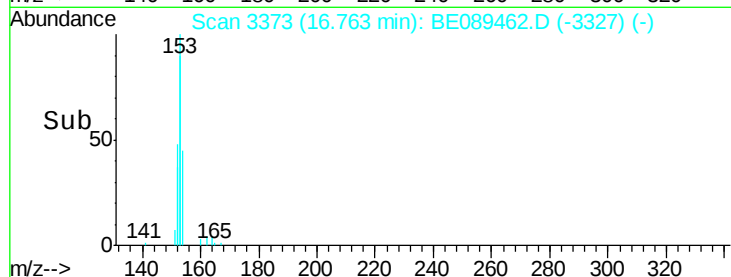
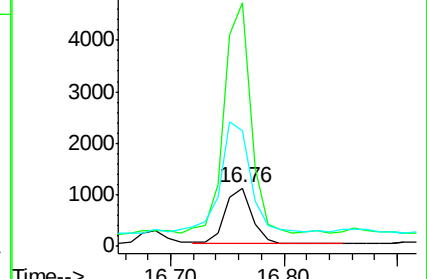
152 238.2 165.5 248.3



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: 0.05 ng

RT: 18.02 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

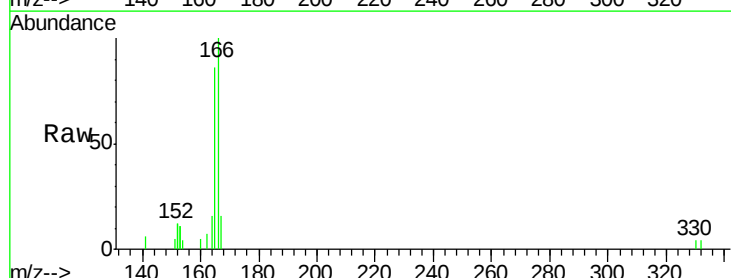
Tgt Ion:166 Resp: 1822

Ion Ratio Lower Upper

166 100

165 92.9 74.4 111.6

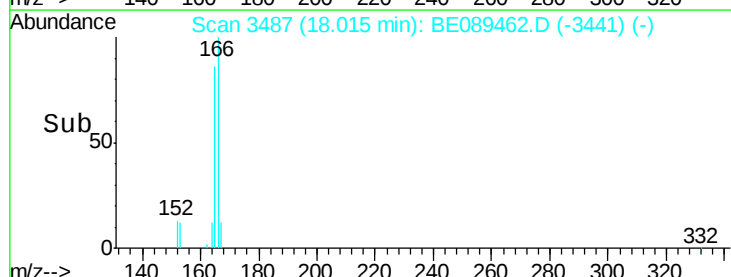
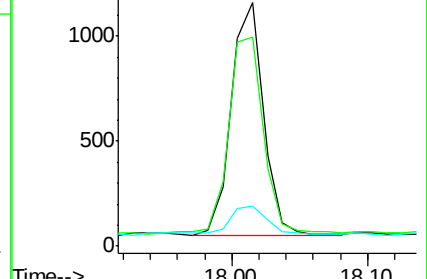
167 14.4 10.6 15.8



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

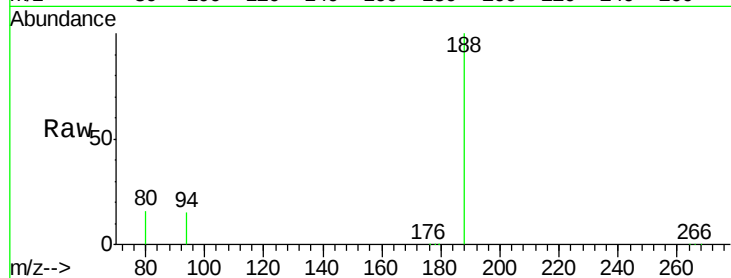




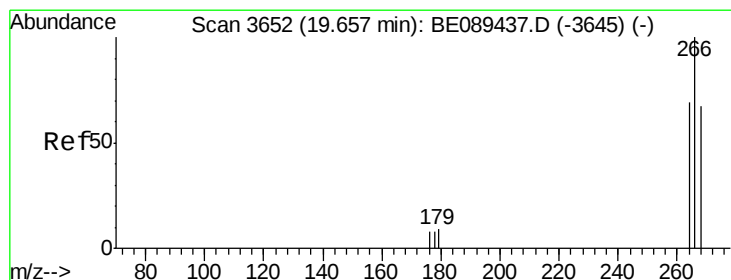
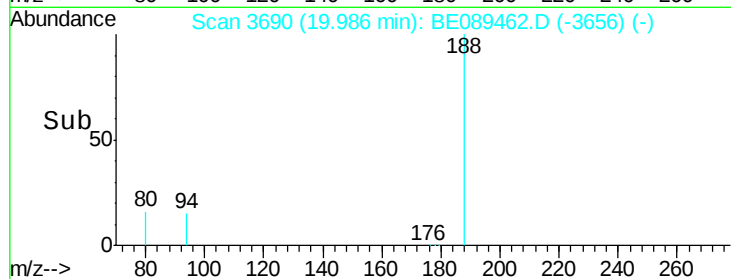
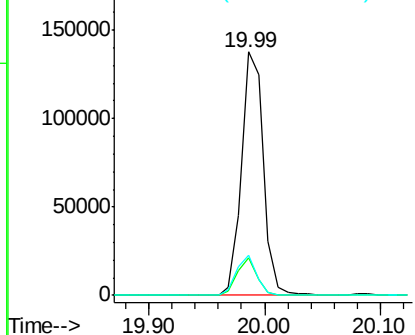
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089462.D
Acq: 31 Jan 2015 8:21

Instrument :
BNA_E
ClientSampled :

Tgt Ion:188 Resp: 182271
Ion Ratio Lower Upper
188 100
94 15.3 9.4 14.0#
80 16.4 9.3 13.9#

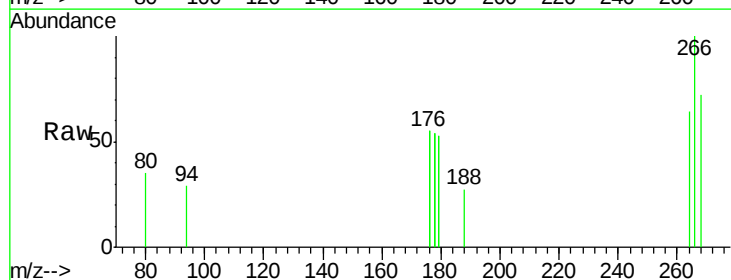


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

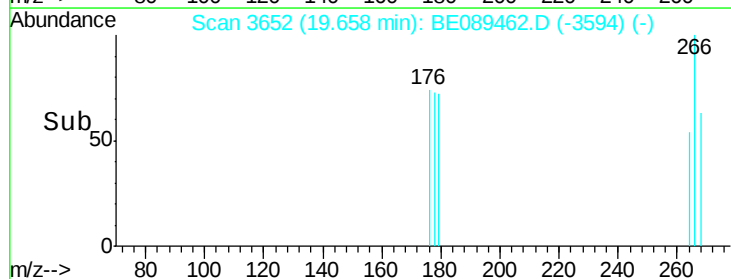
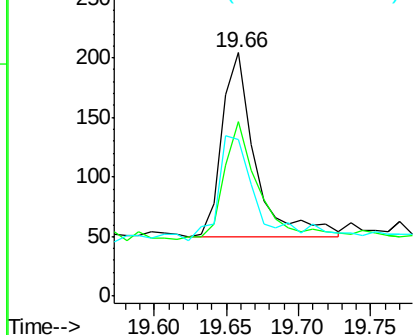


#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089462.D
Acq: 31 Jan 2015 8:21

Tgt Ion:266 Resp: 246
Ion Ratio Lower Upper
266 100
268 72.1 54.2 81.4
264 64.2 56.2 84.2



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: 0.07 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :

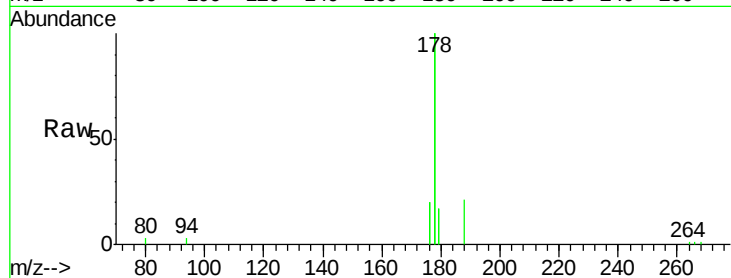
Tgt Ion:178 Resp: 11934

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

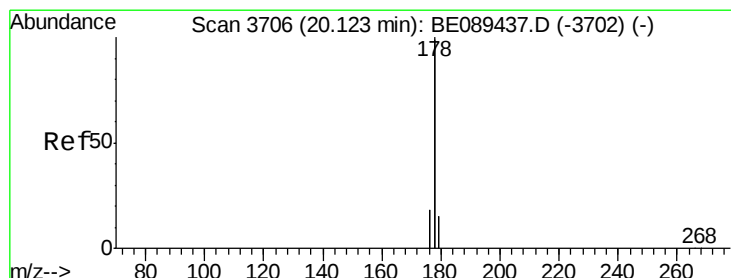
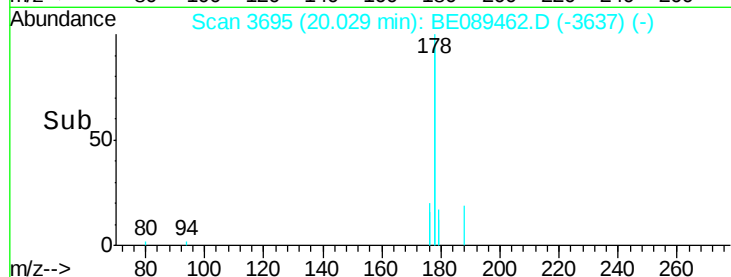
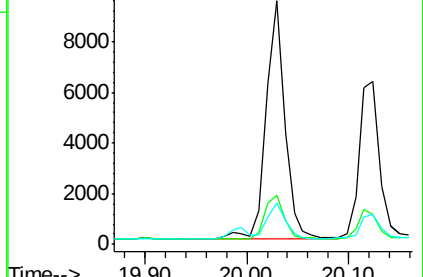
179 15.0 12.3 18.5



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: 0.05 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

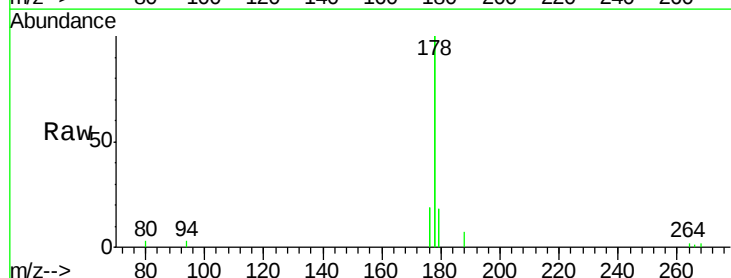
Tgt Ion:178 Resp: 8951

Ion Ratio Lower Upper

178 100

176 17.2 14.6 22.0

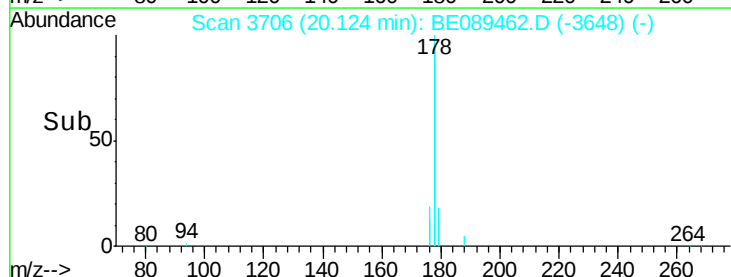
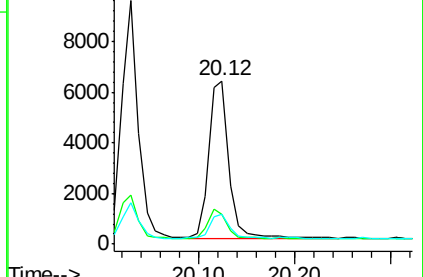
179 16.0 12.2 18.2

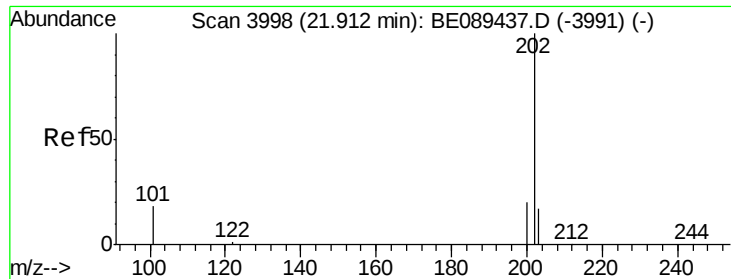


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

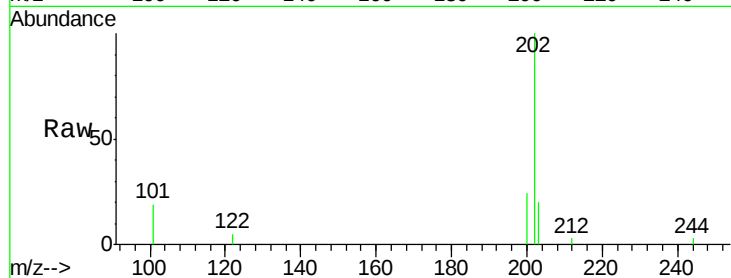




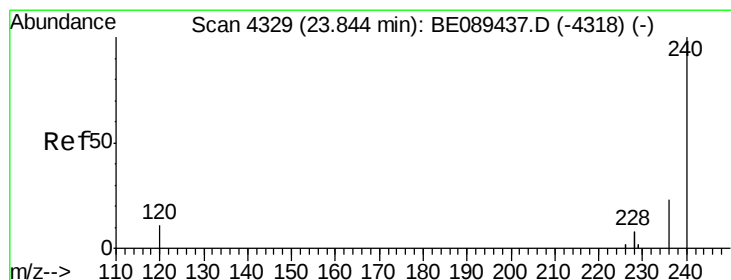
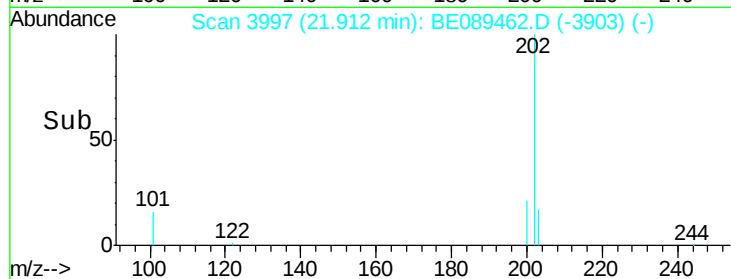
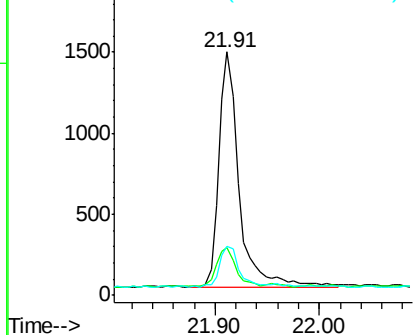
#15
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089462.D
 Acq: 31 Jan 2015 8:21

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 1961
 Ion Ratio Lower Upper
 202 100
 101 15.7 13.6 20.4
 203 17.0 13.8 20.6

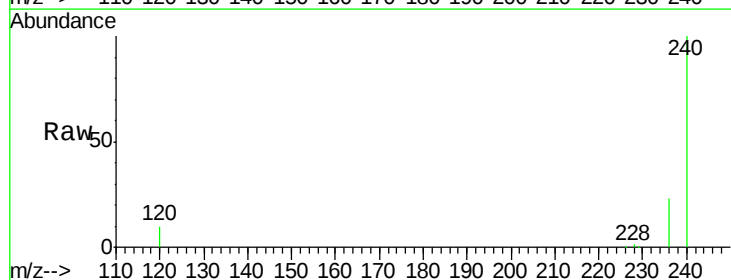


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

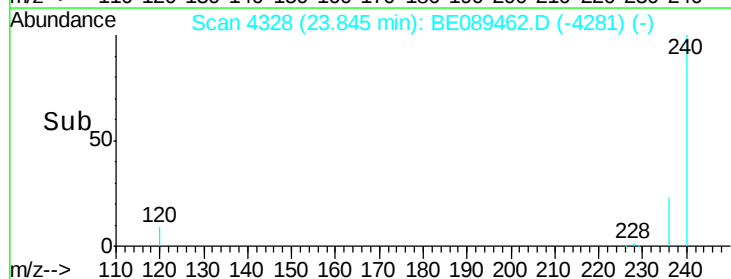
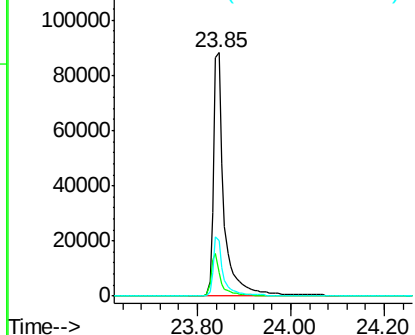


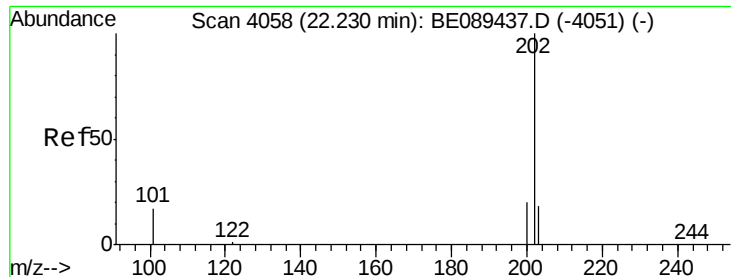
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.85 min Scan# 4328
 Delta R.T. 0.00 min
 Lab File: BE089462.D
 Acq: 31 Jan 2015 8:21

Tgt Ion: 240 Resp: 139368
 Ion Ratio Lower Upper
 240 100
 120 9.5 8.6 13.0
 236 22.9 18.7 28.1



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: 0.06 ng

RT: 22.22 min Scan# 4056

Delta R.T. -0.01 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :

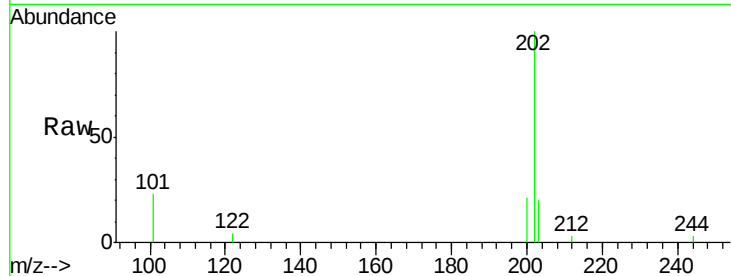
Tgt Ion: 202 Resp: 2180

Ion Ratio Lower Upper

202 100

200 18.3 16.2 24.4

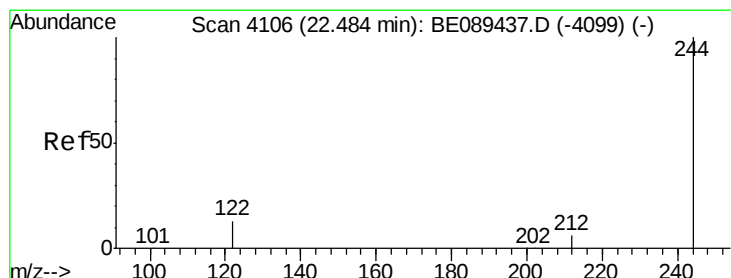
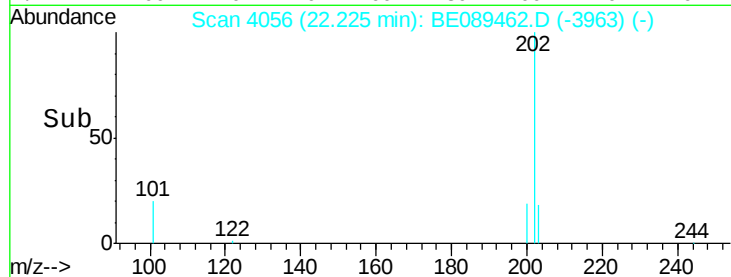
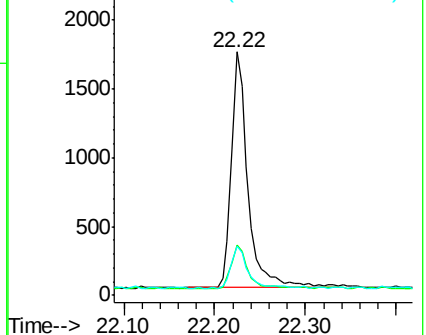
203 18.4 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 8.37 ng

RT: 22.48 min Scan# 4104

Delta R.T. -0.01 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

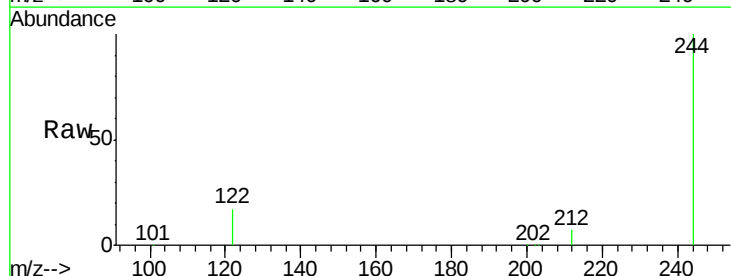
Tgt Ion: 244 Resp: 174585

Ion Ratio Lower Upper

244 100

212 7.0 5.0 7.6

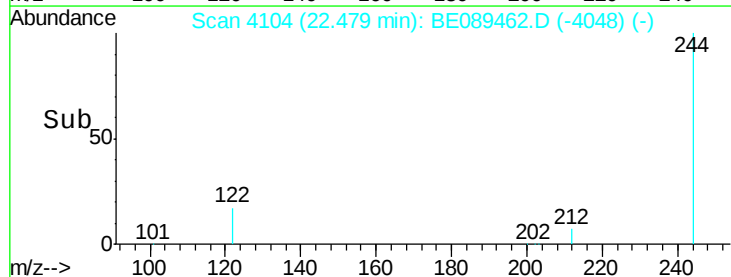
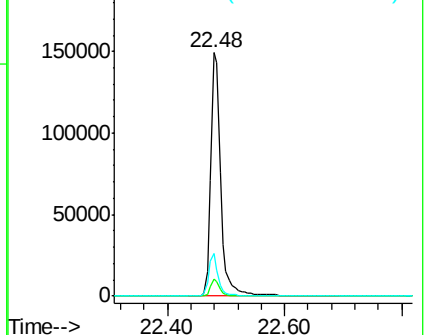
122 17.3 10.2 15.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :

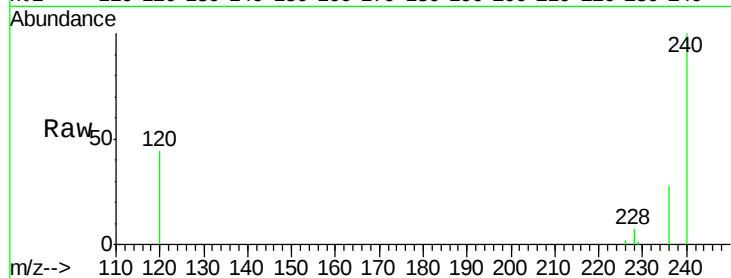
Tgt Ion:228 Resp: 6023

Ion Ratio Lower Upper

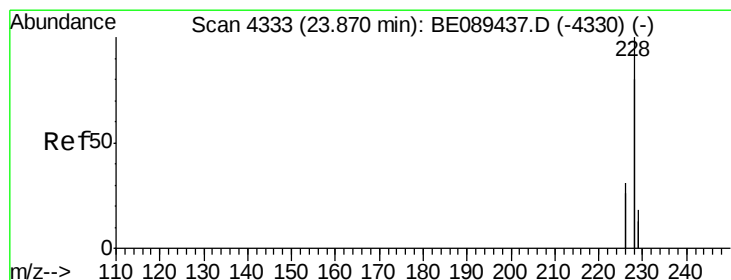
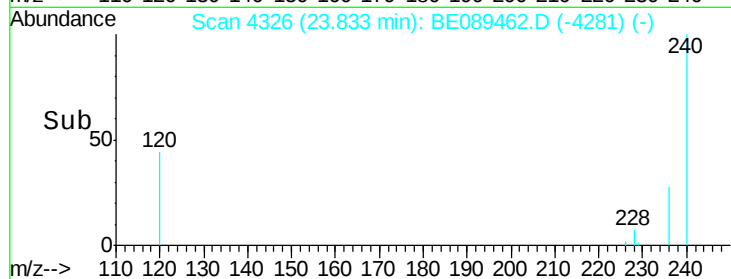
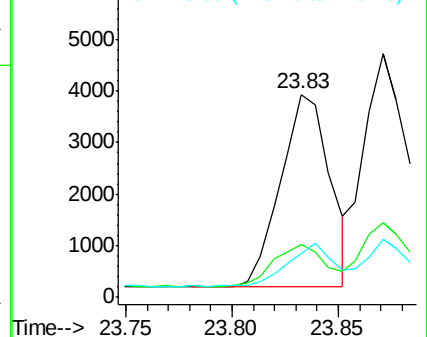
228 100

226 26.1 20.0 30.0

229 21.9 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: 0.07 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

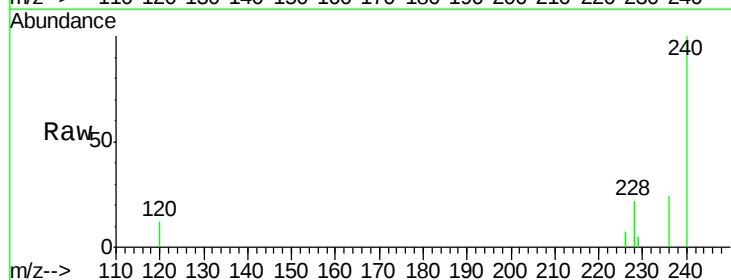
Tgt Ion:228 Resp: 9812

Ion Ratio Lower Upper

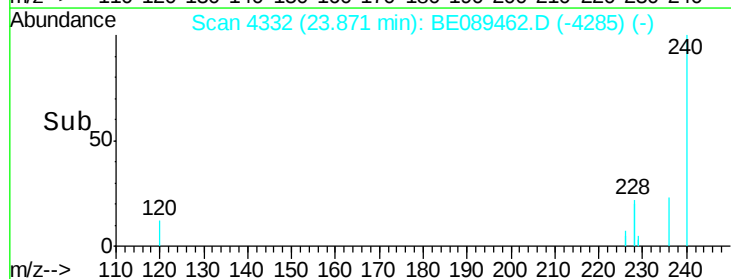
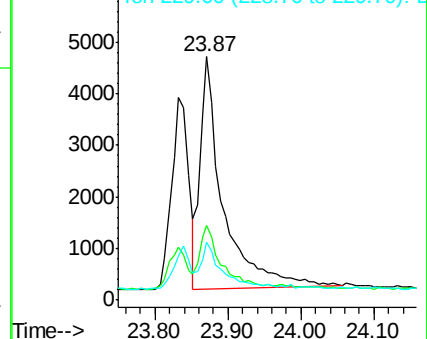
228 100

226 30.9 24.5 36.7

229 23.9 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

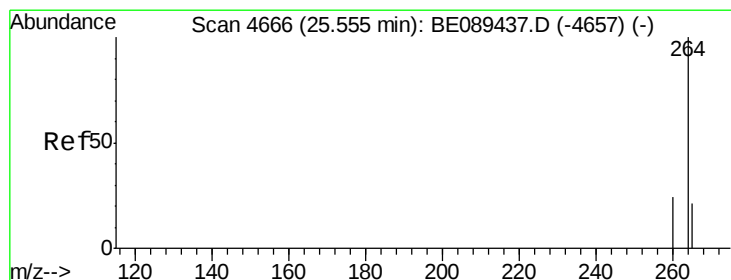
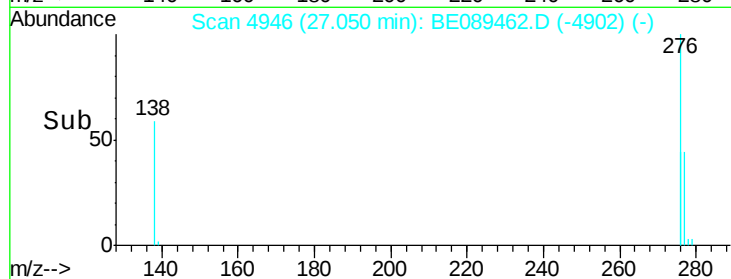
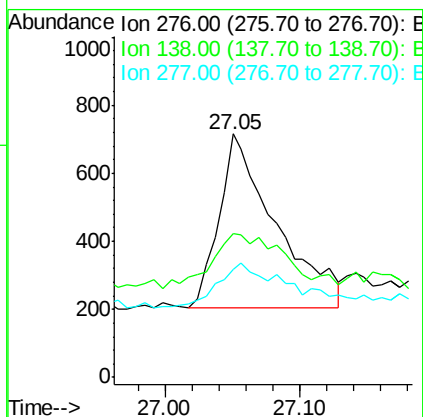
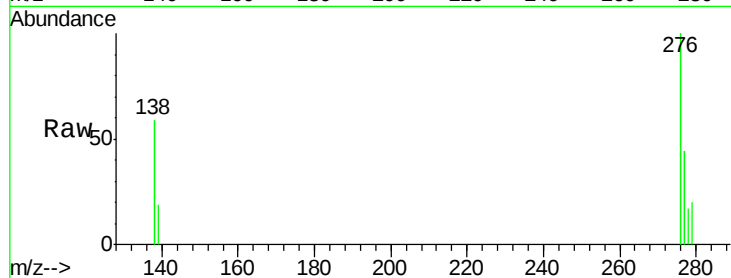




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.01 ng
 RT: 27.05 min Scan# 4946
 Delta R.T. -0.01 min
 Lab File: BE089462.D
 Acq: 31 Jan 2015 8:21

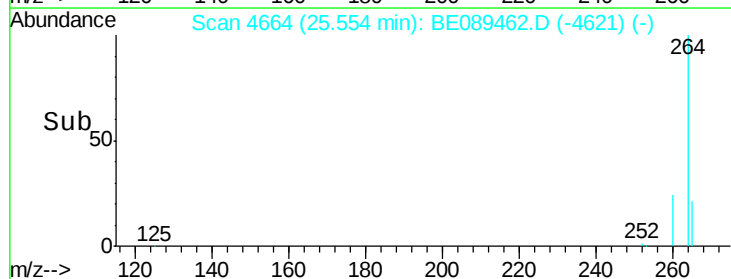
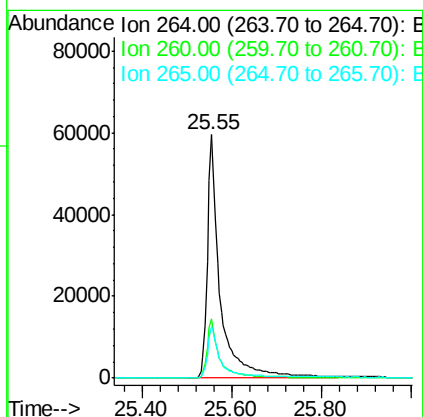
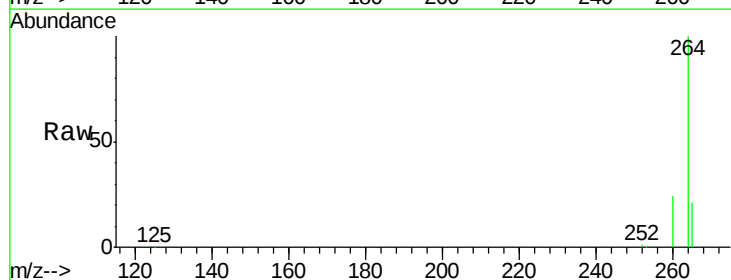
Instrument :
 BNA_E
 ClientSampled :

Tgt Ion: 276 Resp: 1501
 Ion Ratio Lower Upper
 276 100
 138 38.4 25.4 38.0#
 277 30.7 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: BE089462.D
 Acq: 31 Jan 2015 8:21

Tgt Ion: 264 Resp: 118620
 Ion Ratio Lower Upper
 264 100
 260 24.1 19.4 29.0
 265 21.0 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 25.10 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089462.D

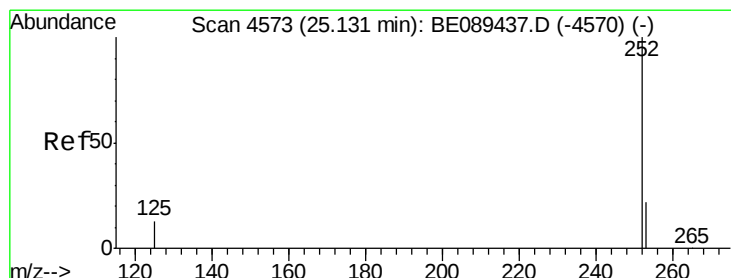
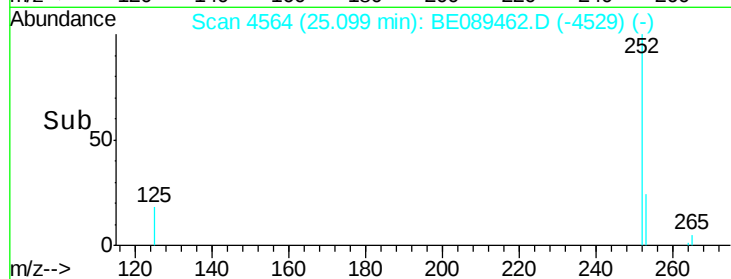
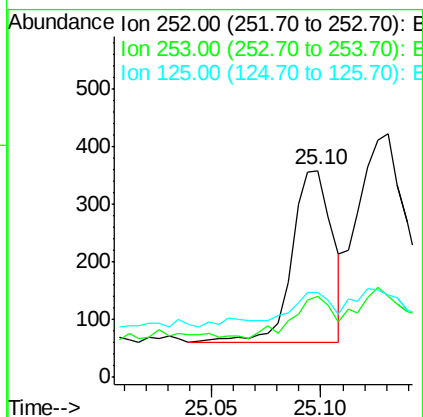
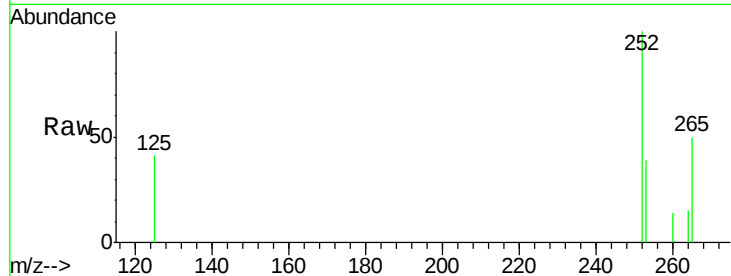
Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	385
Ion Ratio	Lower	Upper	
252	100		
253	39.0	17.0	25.6#
125	41.2	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.02 ng

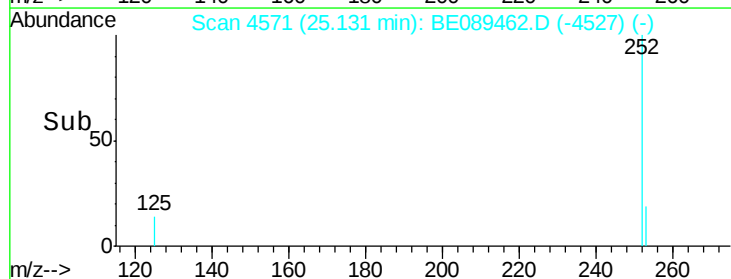
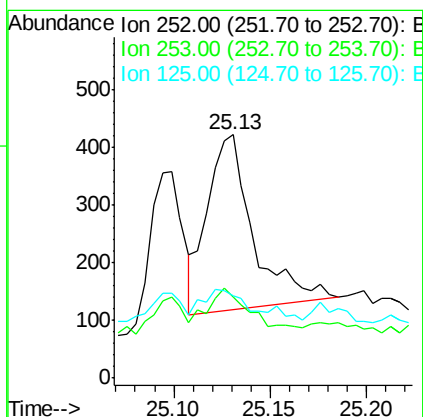
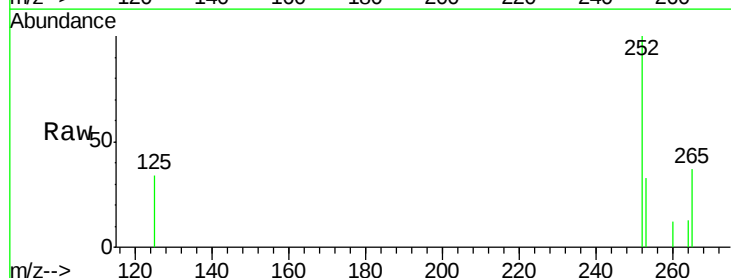
RT: 25.13 min Scan# 4571

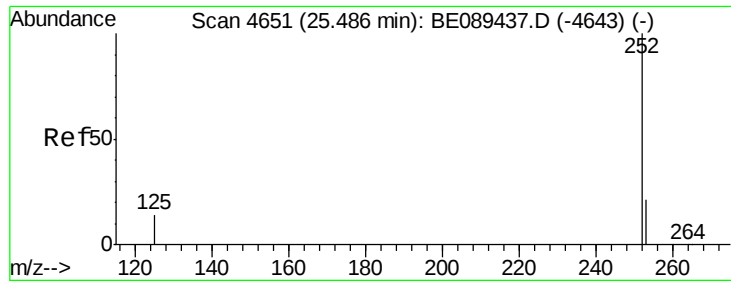
Delta R.T. -0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Tgt Ion:	252	Resp:	507
Ion Ratio	Lower	Upper	
252	100		
253	33.4	17.4	26.2#
125	33.6	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.14 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.00 min

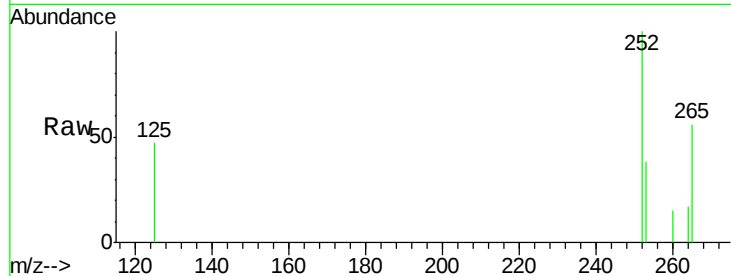
Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :



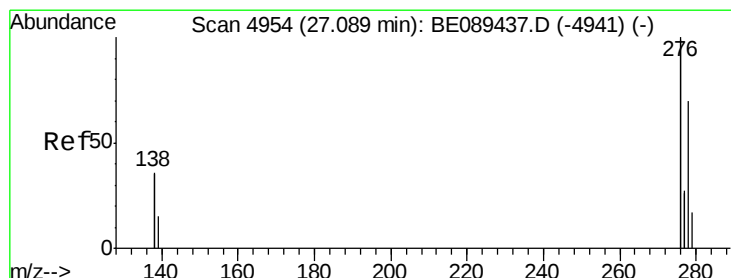
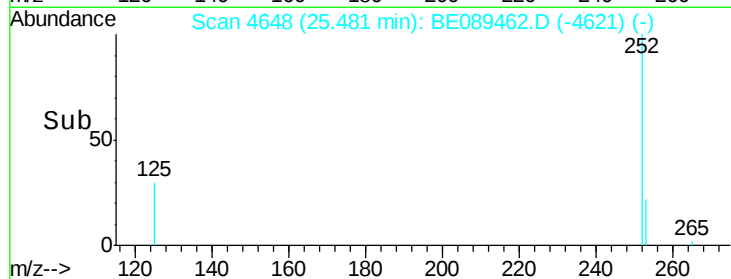
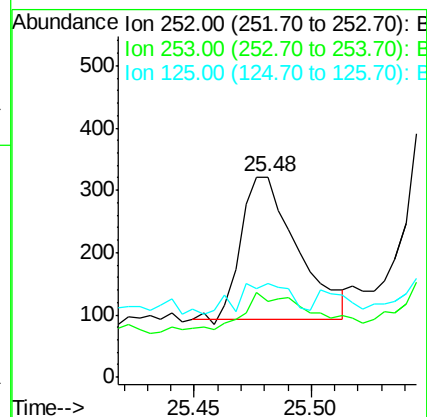
Tgt Ion: 252 Resp: 386

Ion Ratio Lower Upper

252 100

253 37.9 17.3 25.9#

125 46.9 12.0 18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 27.09 min Scan# 4952

Delta R.T. 0.00 min

Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

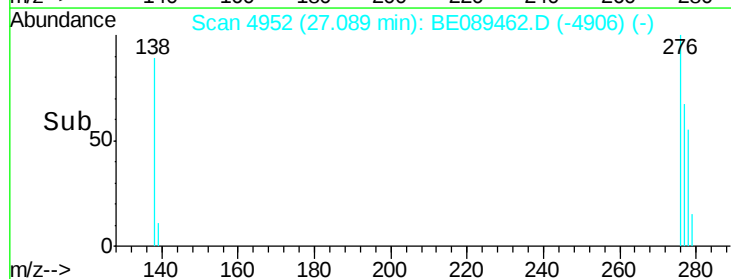
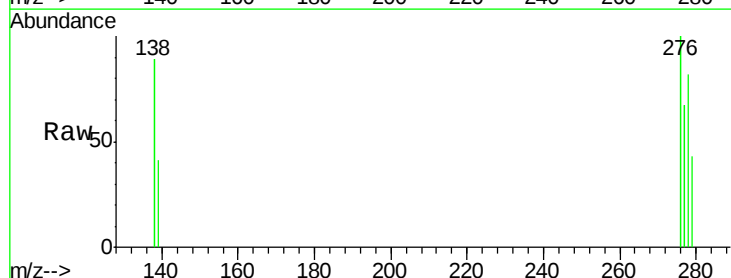
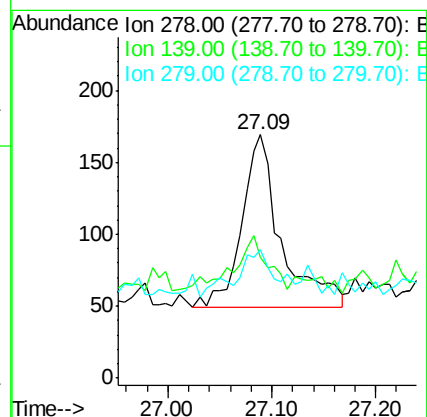
Tgt Ion: 278 Resp: 316

Ion Ratio Lower Upper

278 100

139 49.7 17.0 25.4#

279 52.7 19.1 28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.51 min Scan# 5016

Delta R.T. 0.00 min

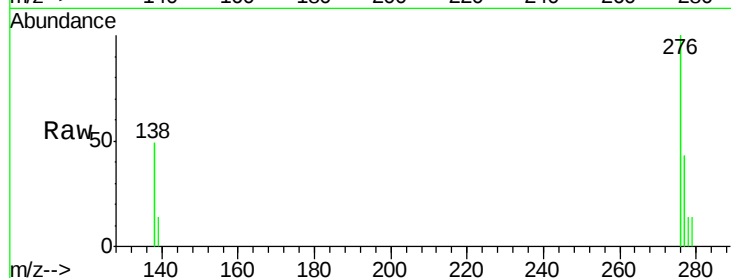
Lab File: BE089462.D

Acq: 31 Jan 2015 8:21

Instrument :

BNA_E

ClientSampleId :



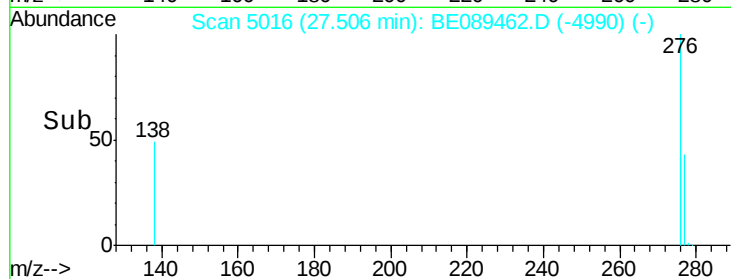
Tgt Ion:276 Resp: 2200

Ion Ratio Lower Upper

276 100

277 43.0 18.4 27.6#

138 49.4 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

