

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089493.D
 Acq On : 1 Feb 2015 10:18
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 04:24:01 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

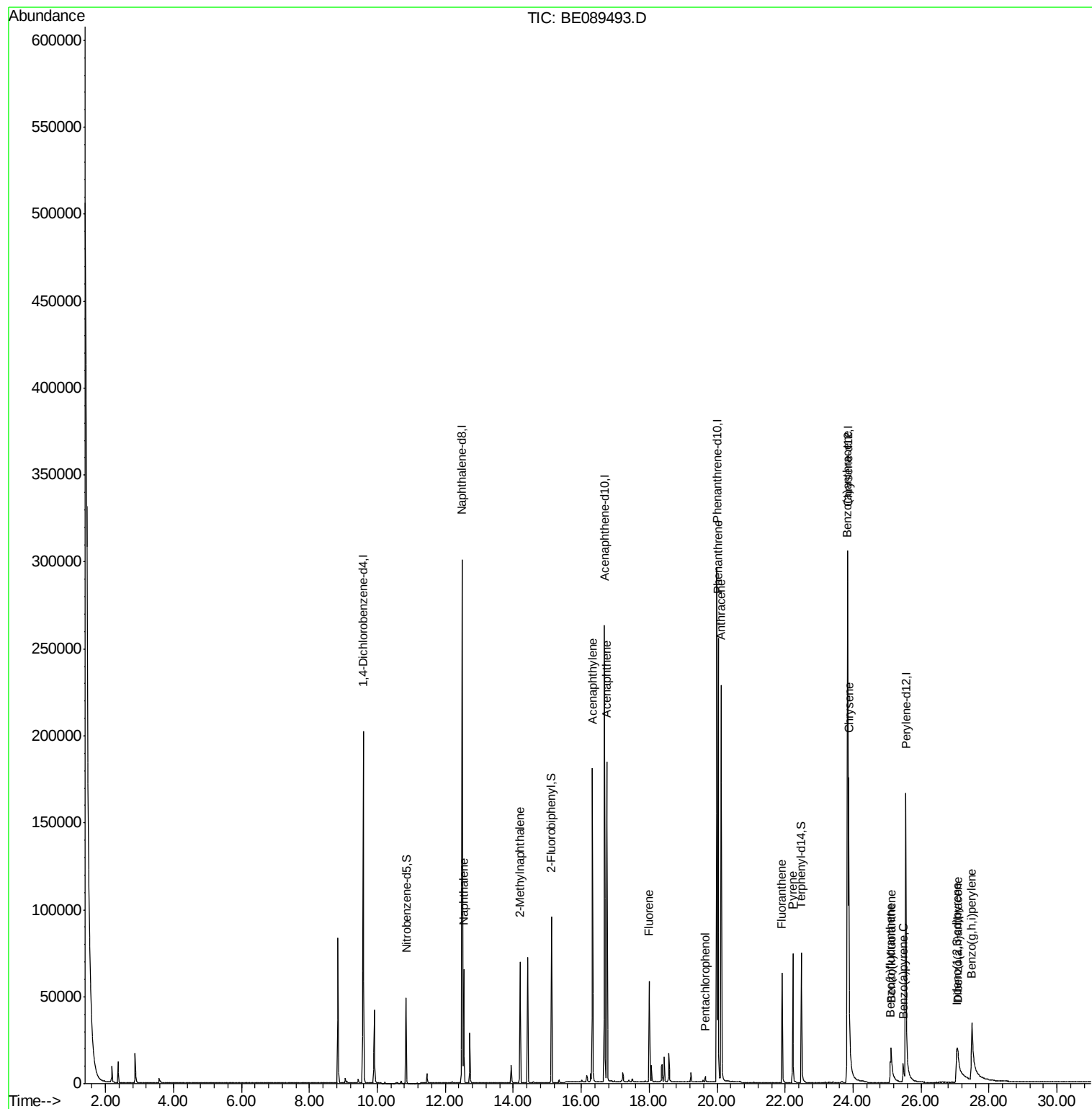
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	80931	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	333277	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	154305	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	277219	5.00	ng	0.00
16) Chrysene-d12	23.84	240	230882	5.00	ng	0.00
22) Perylene-d12	25.55	264	200639	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.84	82	34446	1.56	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	83261	2.05	ng	0.00
18) Terphenyl-d14	22.48	244	75752	2.19	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.54	128	73553	0.94	ng	100
5) 2-Methylnaphthalene	14.20	142	43823	0.93	ng	97
8) Acenaphthylene	16.33	152	242611	0.87	ng	100
9) Acenaphthene	16.75	154	37195	0.89	ng	99
10) Fluorene	18.00	166	40529	0.87	ng	100
12) Pentachlorophenol	19.65	266	2143	1.56	ng	97
13) Phenanthrene	20.03	178	243545	0.89	ng	100
14) Anthracene	20.11	178	218568	0.88	ng	100
15) Fluoranthene	21.91	202	51592	0.87	ng	99
17) Pyrene	22.22	202	54919	0.90	ng	100
19) Benzo(a)anthracene	23.83	228	144927	0.75	ng	97
20) Chrysene	23.87	228	201738	0.92	ng	94
21) Indeno(1,2,3-cd)pyrene	27.05	276	83143	0.43	ng	# 63
23) Benzo(b)fluoranthene	25.10	252	11350	0.49	ng	97
24) Benzo(k)fluoranthene	25.12	252	47851	0.94	ng	98
25) Benzo(a)pyrene	25.48	252	15956	0.55	ng	99
26) Dibenzo(a,h)anthracene	27.08	278	14248	0.47	ng	96
27) Benzo(g,h,i)perylene	27.50	276	104254	0.65	ng	99

(#) = 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: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :

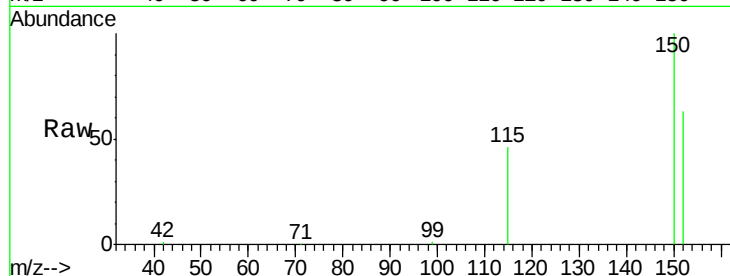
Tgt Ion:152 Resp: 80931

Ion Ratio Lower Upper

152 100

150 159.2 127.2 190.8

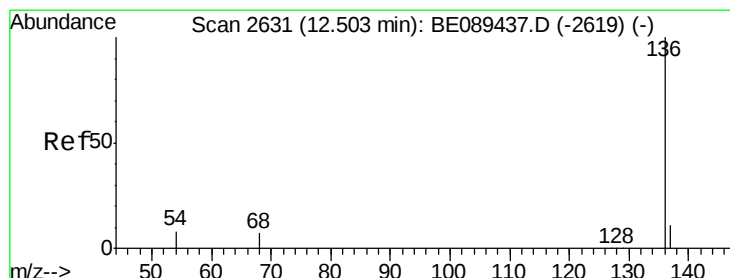
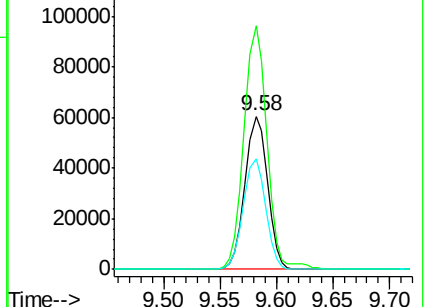
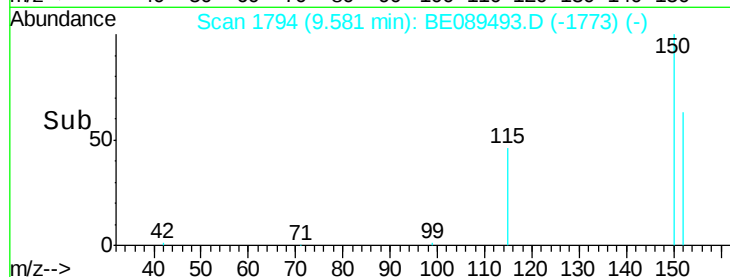
115 72.6 57.5 86.3



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: BE089493.D

Acq: 1 Feb 2015 10:18

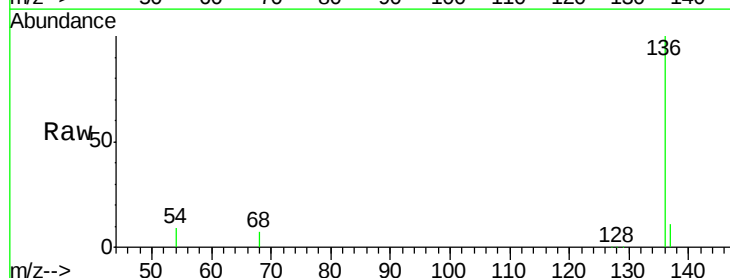
Tgt Ion:136 Resp: 333277

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

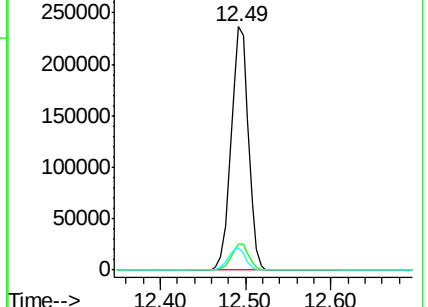
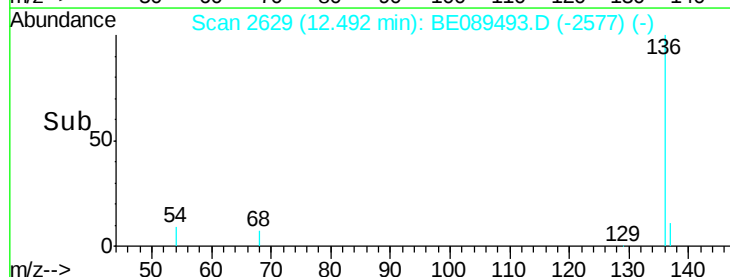
54 9.2 6.6 10.0



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: 1.56 ng

RT: 10.84 min Scan# 2222

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :

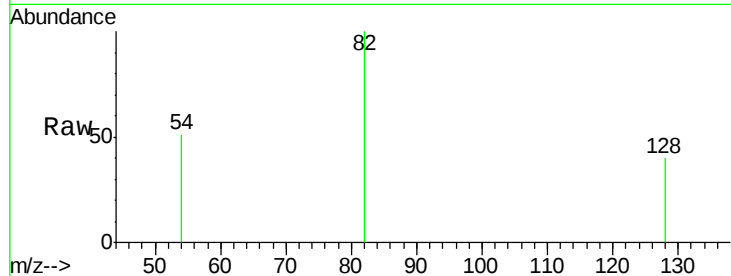
Tgt Ion: 82 Resp: 34446

Ion Ratio Lower Upper

82 100

128 39.5 31.2 46.8

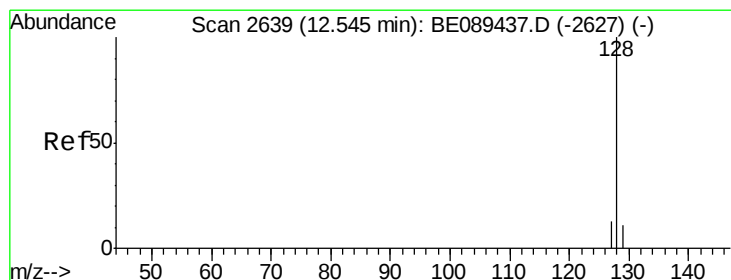
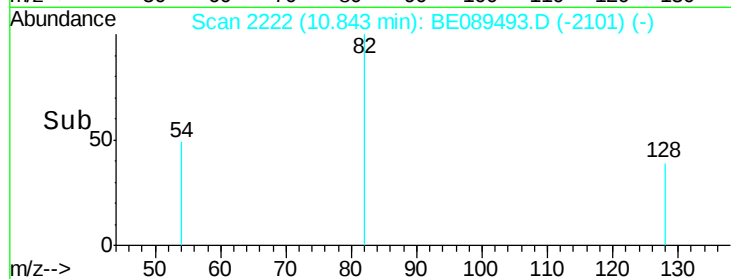
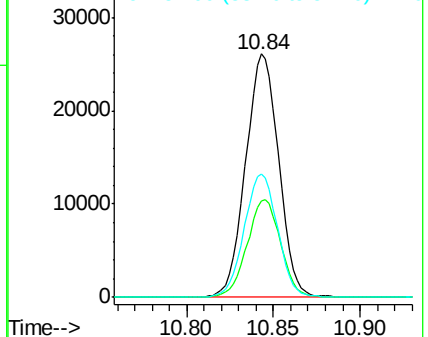
54 50.5 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.94 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

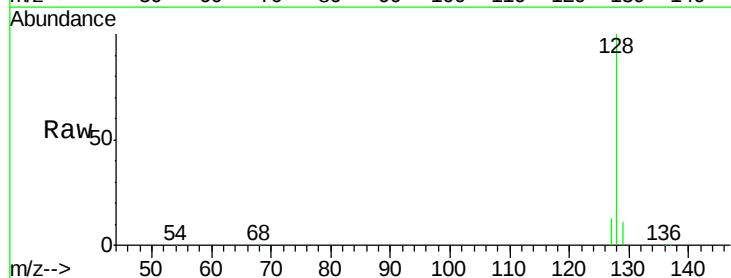
Tgt Ion: 128 Resp: 73553

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

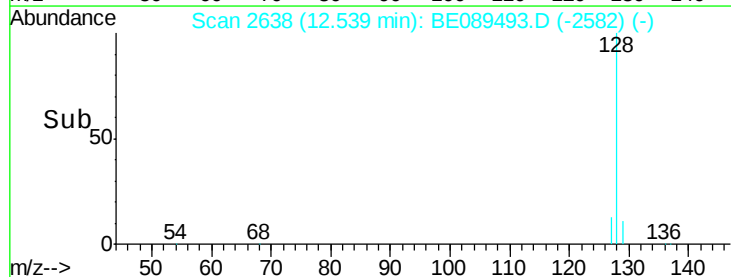
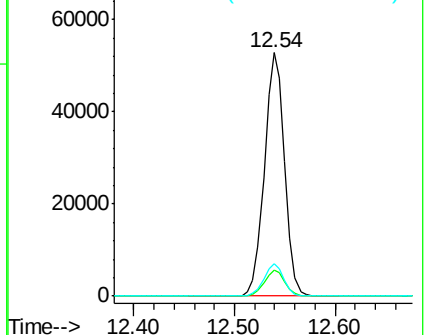
127 13.1 10.6 16.0



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: 0.93 ng

RT: 14.20 min Scan# 2975

Delta R.T. -0.01 min

Lab File: BE089493.D

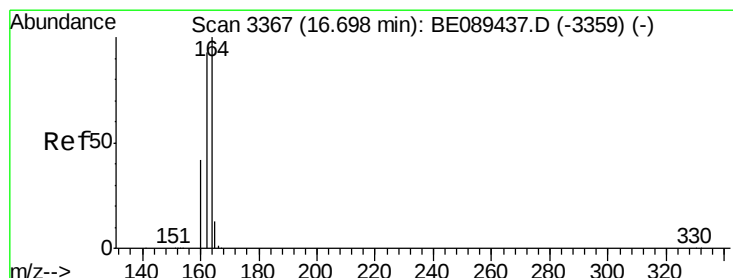
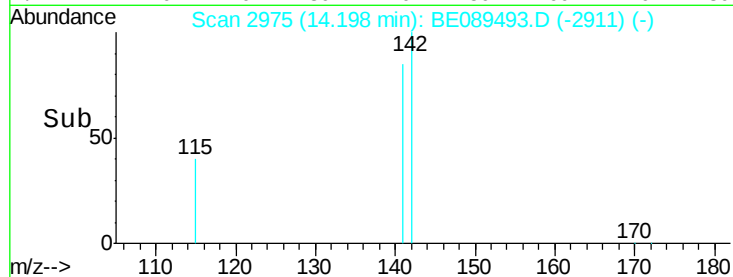
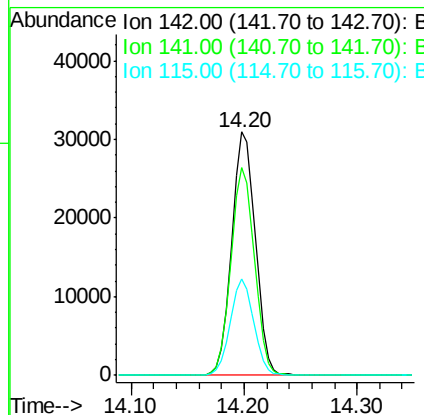
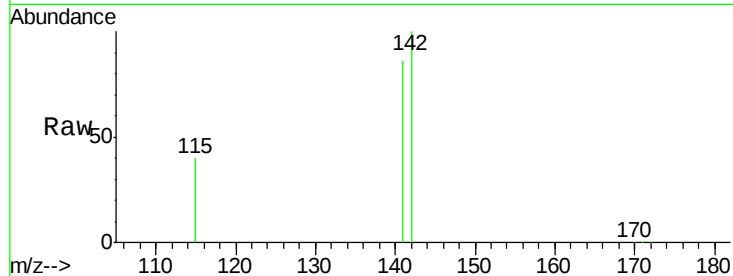
Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	43823
Ion Ratio	Lower	Upper	
142	100		
141	85.5	66.1	99.1
115	39.7	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

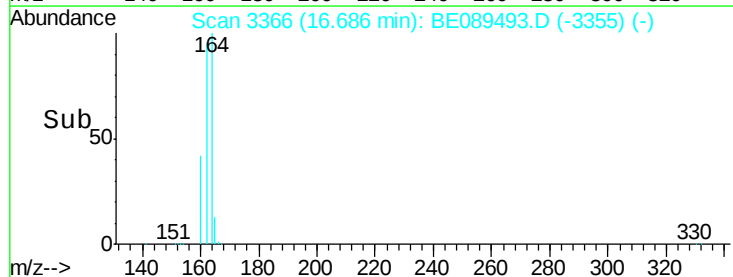
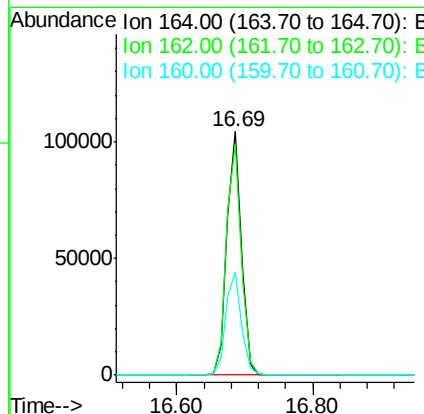
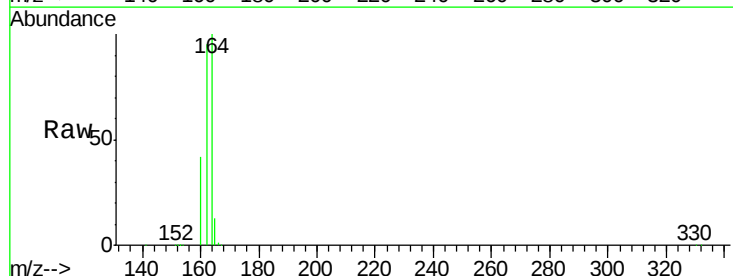
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Tgt Ion:	164	Resp:	154305
Ion Ratio	Lower	Upper	
164	100		
162	94.8	74.7	112.1
160	42.4	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 2.05 ng

RT: 15.13 min Scan# 3179

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :

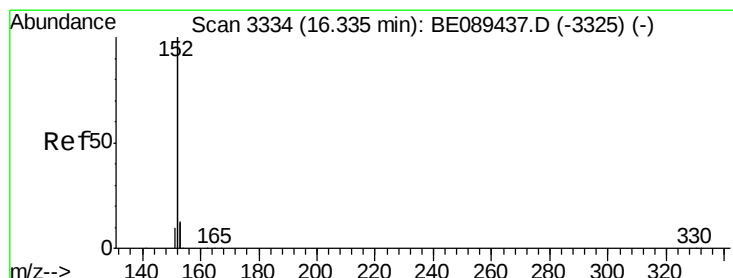
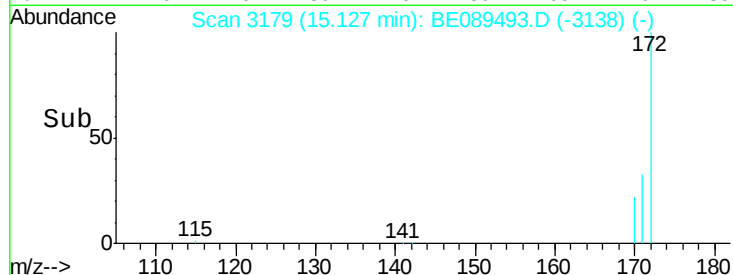
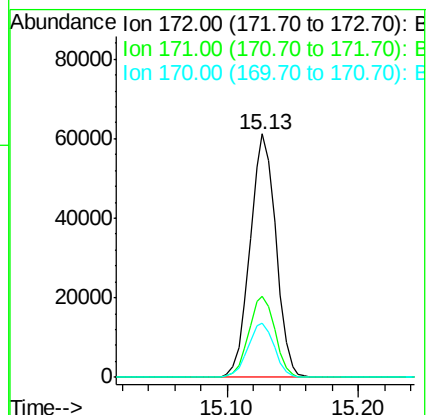
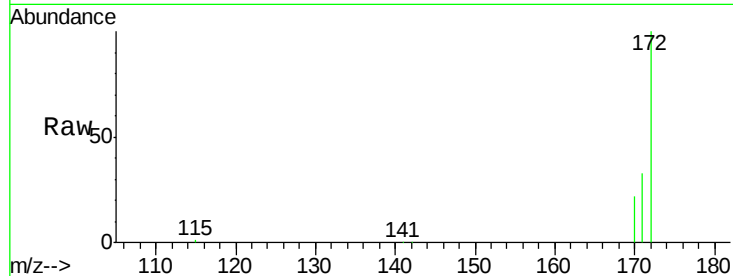
Tgt Ion:172 Resp: 83261

Ion Ratio Lower Upper

172 100

171 33.2 26.2 39.4

170 22.5 16.5 24.7



#8

Acenaphthylene

Concen: 0.87 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

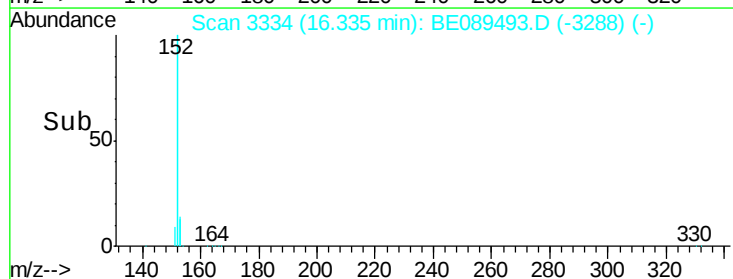
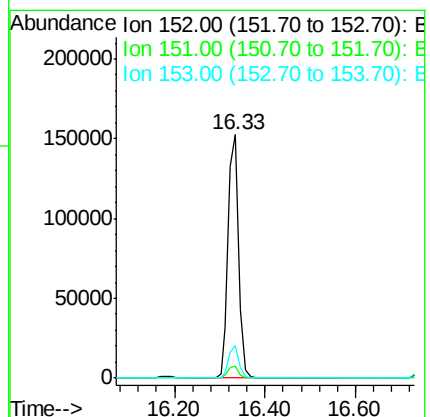
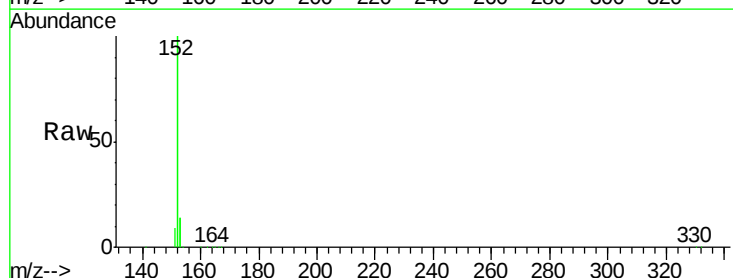
Tgt Ion:152 Resp: 242611

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

153 12.8 10.3 15.5





#9

Acenaphthene

Concen: 0.89 ng

RT: 16.75 min Scan# 3372

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampled :

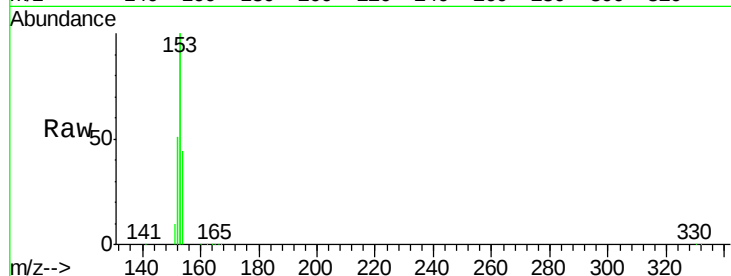
Tgt Ion:154 Resp: 37195

Ion Ratio Lower Upper

154 100

153 431.3 342.3 513.5

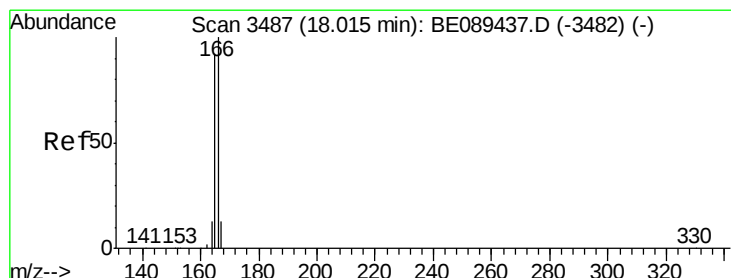
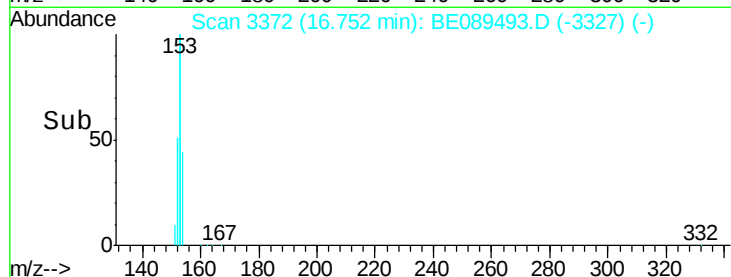
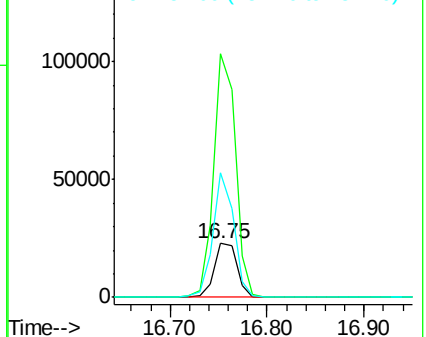
152 209.3 165.5 248.3



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: 0.87 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

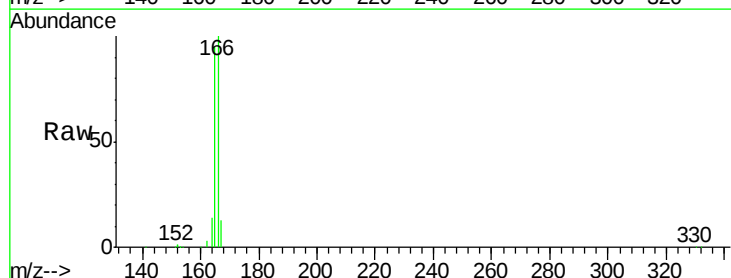
Tgt Ion:166 Resp: 40529

Ion Ratio Lower Upper

166 100

165 93.0 74.4 111.6

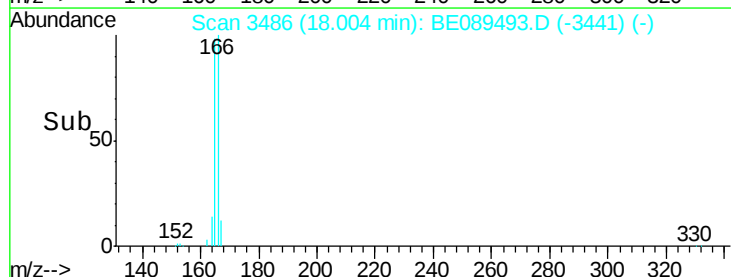
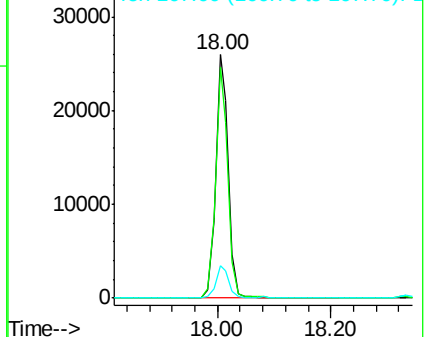
167 13.2 10.6 15.8



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

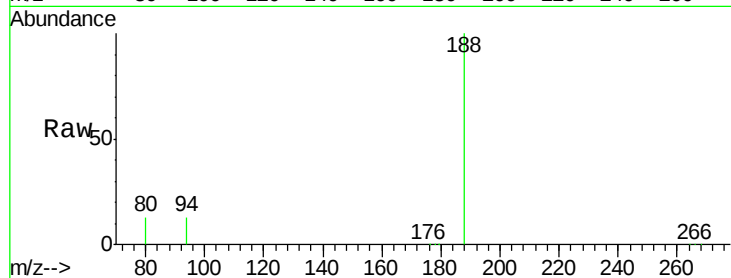




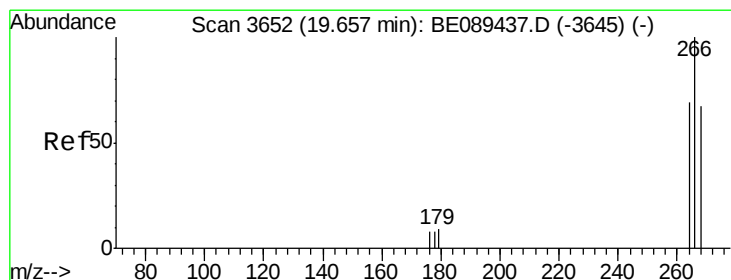
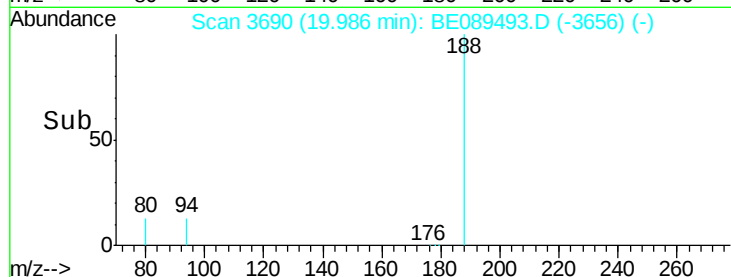
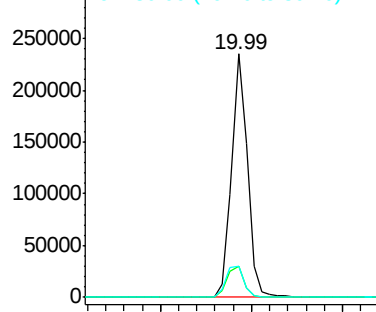
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089493.D
Acq: 1 Feb 2015 10:18

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 277219
Ion Ratio Lower Upper
188 100
94 12.6 9.4 14.0
80 13.0 9.3 13.9

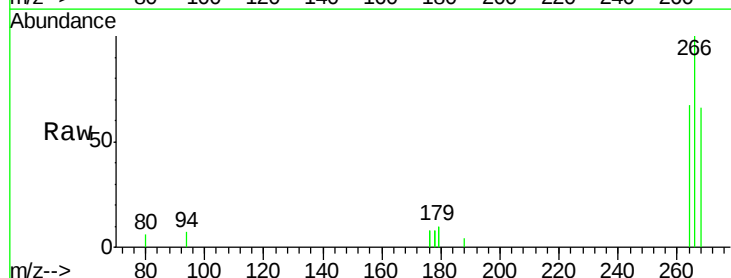


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

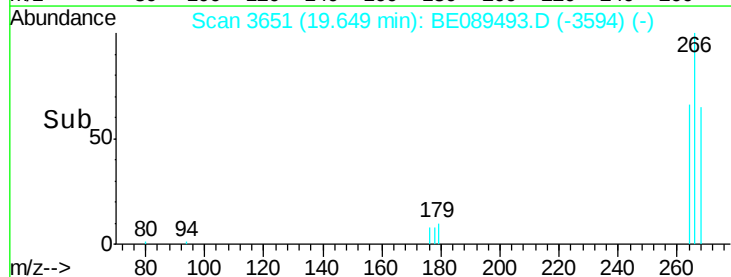
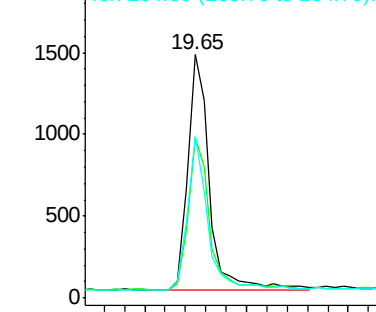


#12
Pentachlorophenol
Concen: 1.56 ng
RT: 19.65 min Scan# 3651
Delta R.T. -0.01 min
Lab File: BE089493.D
Acq: 1 Feb 2015 10:18

Tgt Ion:266 Resp: 2143
Ion Ratio Lower Upper
266 100
268 66.0 54.2 81.4
264 66.5 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

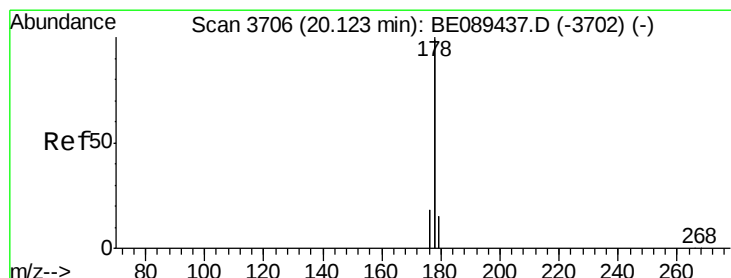
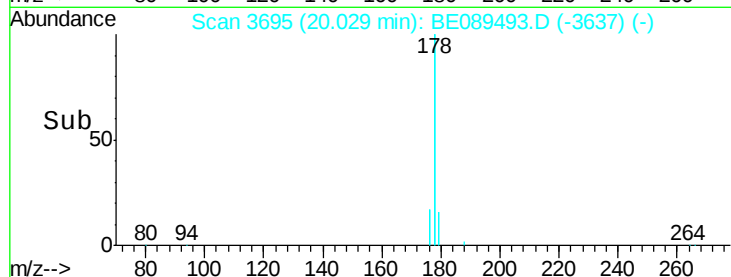
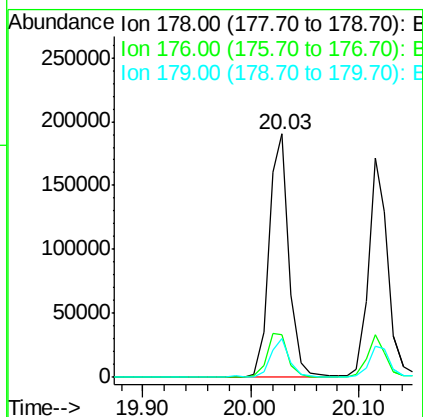
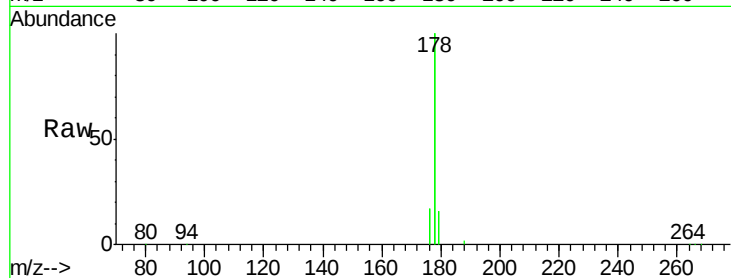




#13
Phenanthrene
Concen: 0.89 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089493.D
Acq: 1 Feb 2015 10:18

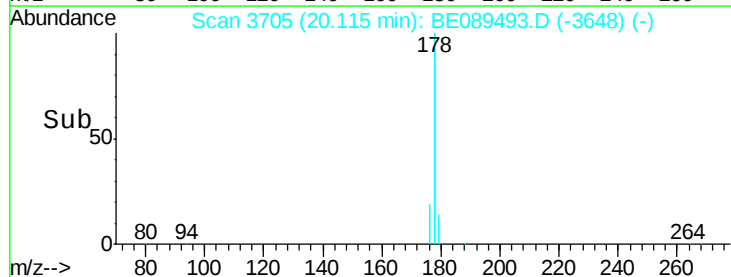
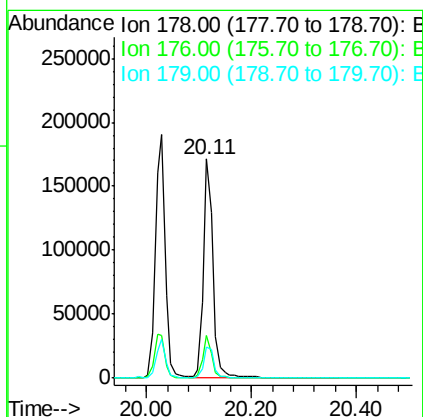
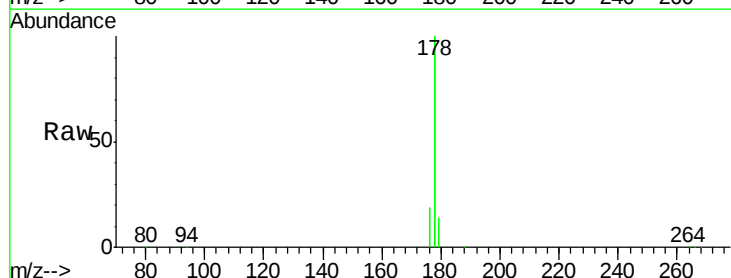
Instrument :
BNA_E
ClientSampleId :

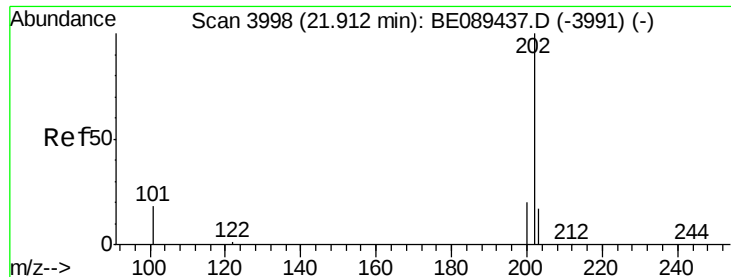
Tgt Ion:178 Resp: 243545
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 15.4 12.3 18.5



#14
Anthracene
Concen: 0.88 ng
RT: 20.11 min Scan# 3705
Delta R.T. -0.01 min
Lab File: BE089493.D
Acq: 1 Feb 2015 10:18

Tgt Ion:178 Resp: 218568
Ion Ratio Lower Upper
178 100
176 18.1 14.6 22.0
179 15.0 12.2 18.2

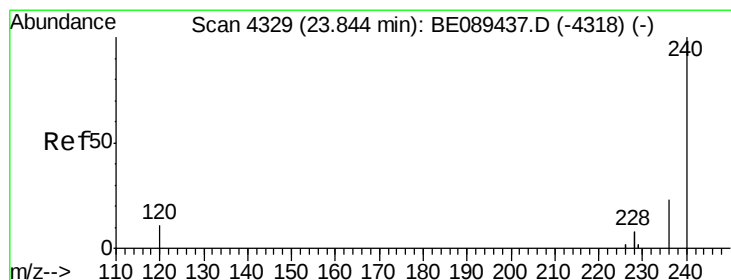
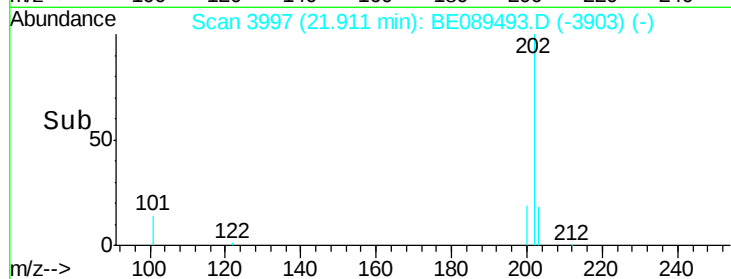
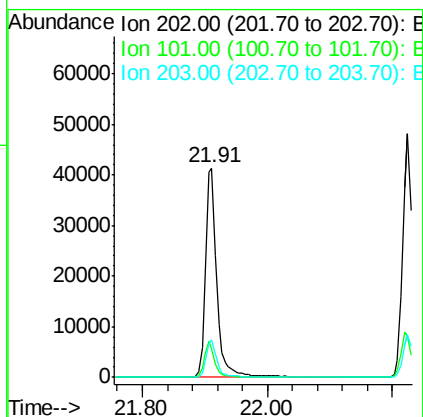
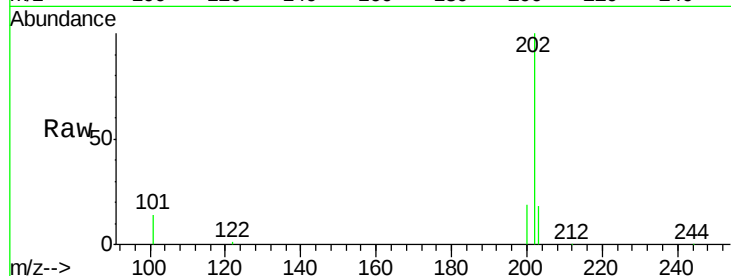




#15
 Fluoranthene
 Concen: 0.87 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089493.D
 Acq: 1 Feb 2015 10:18

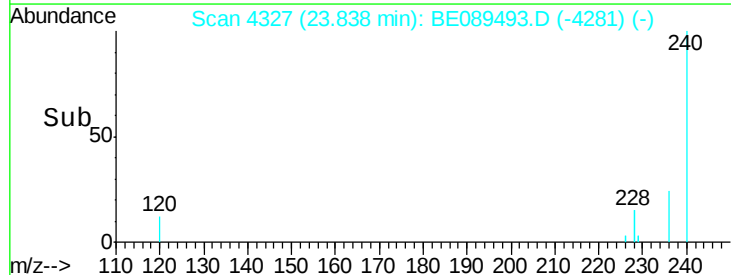
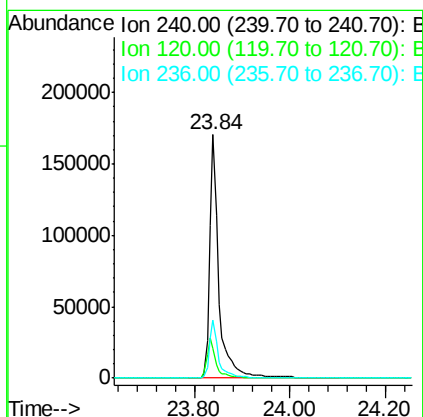
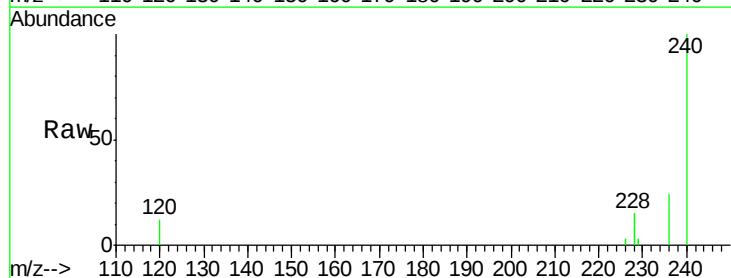
Instrument :
 BNA_E
 ClientSampleId :

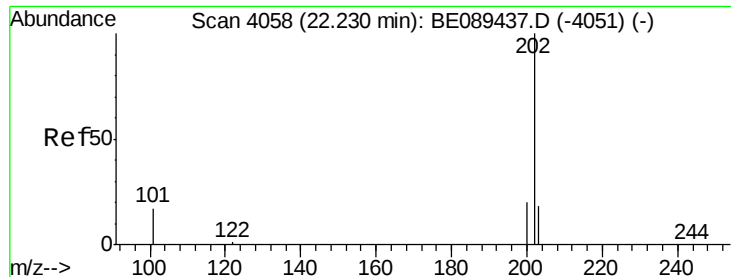
Tgt Ion: 202 Resp: 51592
 Ion Ratio Lower Upper
 202 100
 101 16.0 13.6 20.4
 203 17.0 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: BE089493.D
 Acq: 1 Feb 2015 10:18

Tgt Ion: 240 Resp: 230882
 Ion Ratio Lower Upper
 240 100
 120 12.0 8.6 13.0
 236 23.7 18.7 28.1

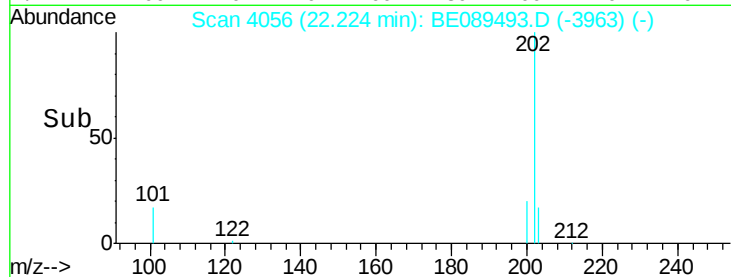
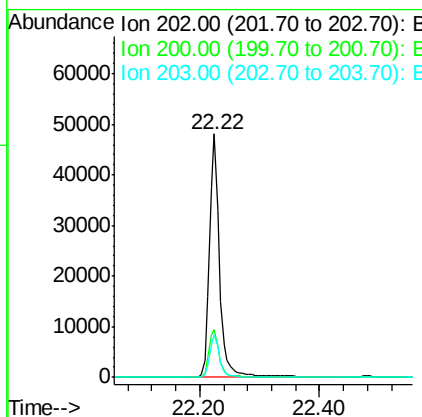
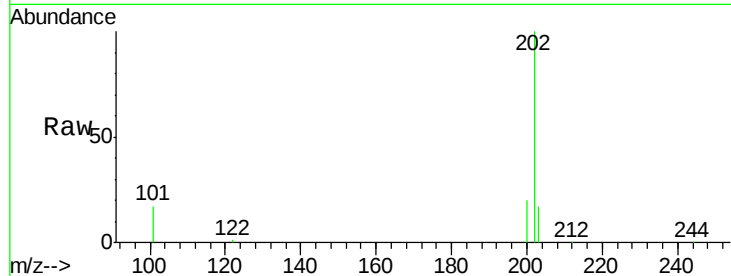




#17
 Pyrene
 Concen: 0.90 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089493.D
 Acq: 1 Feb 2015 10:18

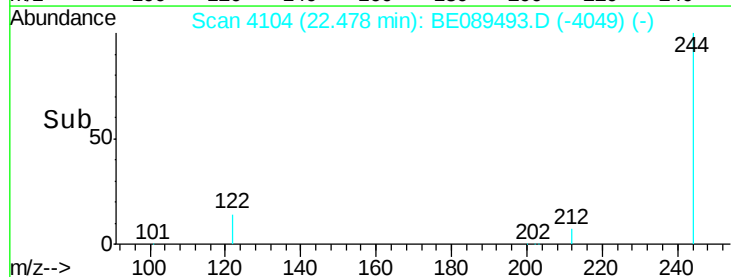
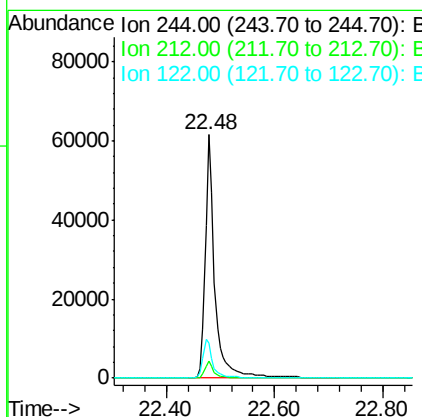
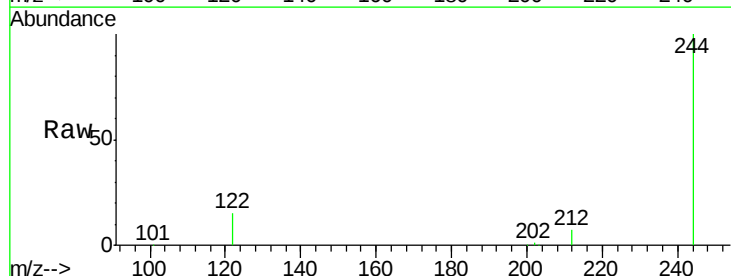
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 54919
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.2 24.4
 203 17.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 2.19 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089493.D
 Acq: 1 Feb 2015 10:18

Tgt Ion:244 Resp: 75752
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.0 7.6
 122 14.6 10.2 15.4





#19

Benzo(a)anthracene

Concen: 0.75 ng

RT: 23.83 min Scan# 4325

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :

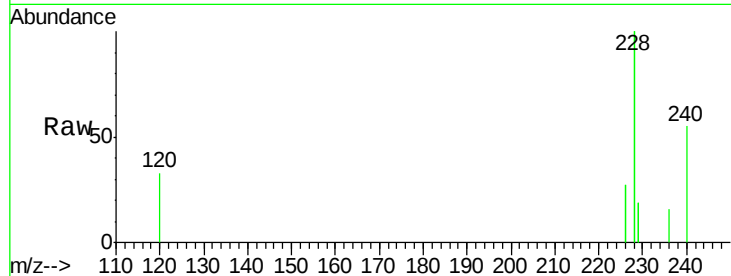
Tgt Ion:228 Resp: 144927

Ion Ratio Lower Upper

228 100

226 26.9 20.0 30.0

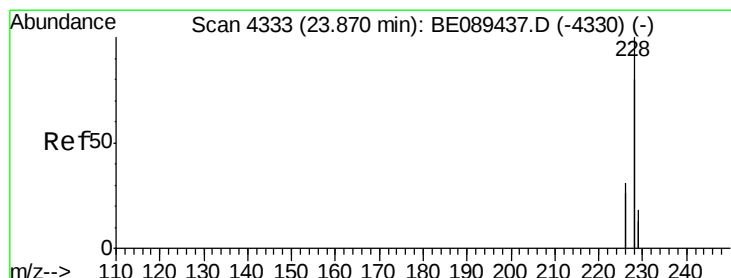
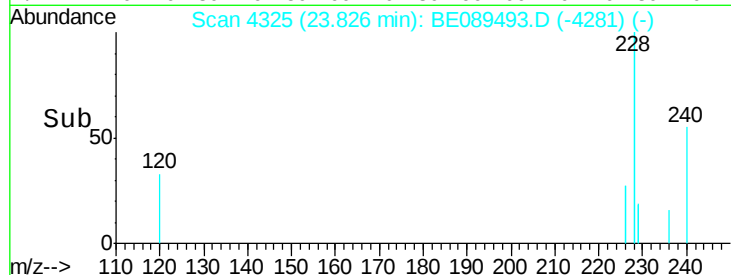
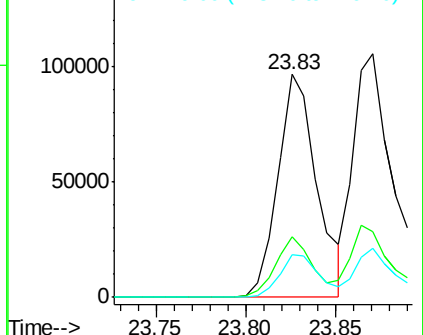
229 18.9 16.0 24.0



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: 0.92 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

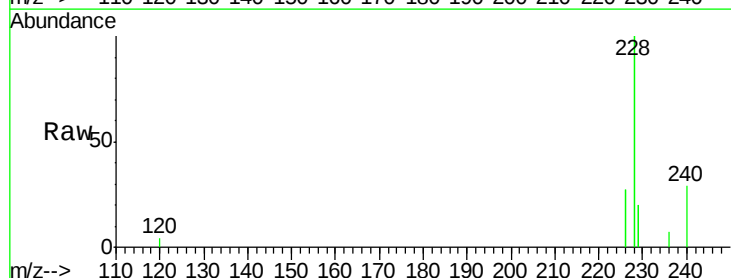
Tgt Ion:228 Resp: 201738

Ion Ratio Lower Upper

228 100

226 26.9 24.5 36.7

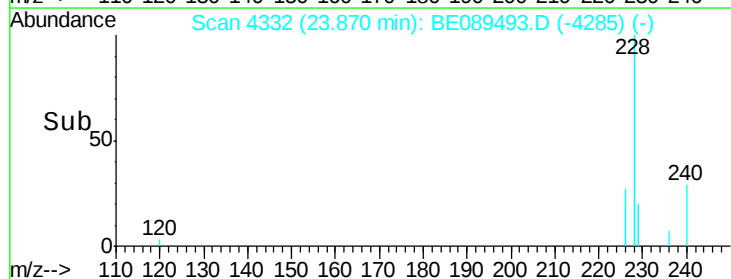
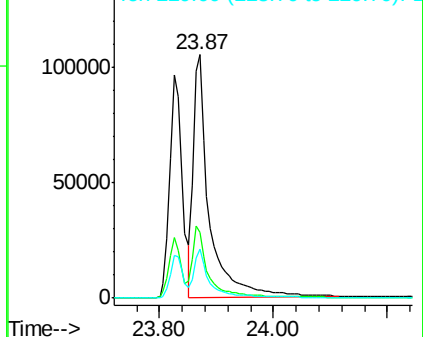
229 19.9 14.1 21.1



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: 0.43 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

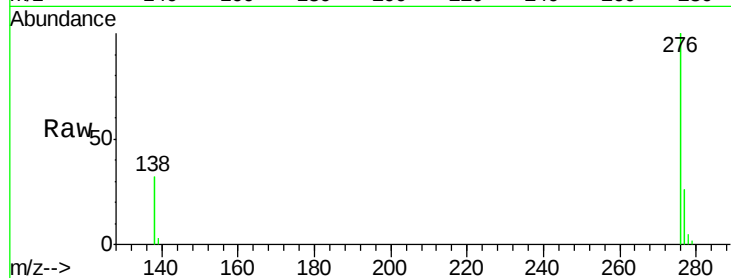
Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :



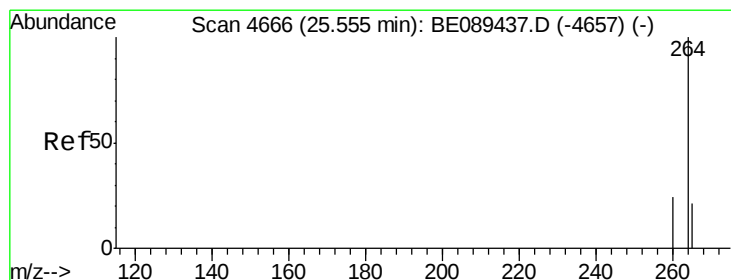
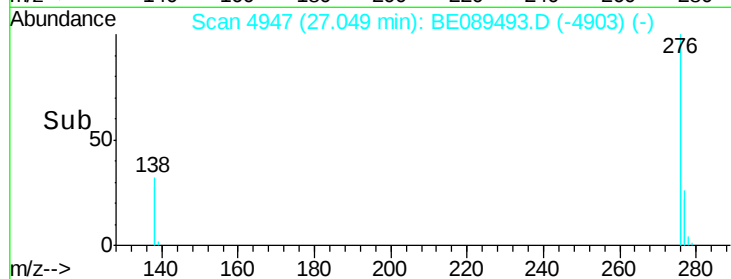
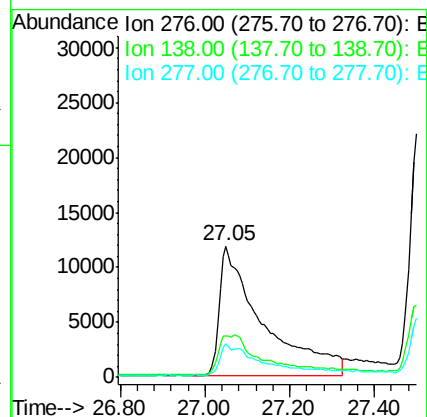
Tgt Ion:276 Resp: 83143

Ion Ratio Lower Upper

276 100

138 9.6 25.4 38.0#

277 7.6 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: BE089493.D

Acq: 1 Feb 2015 10:18

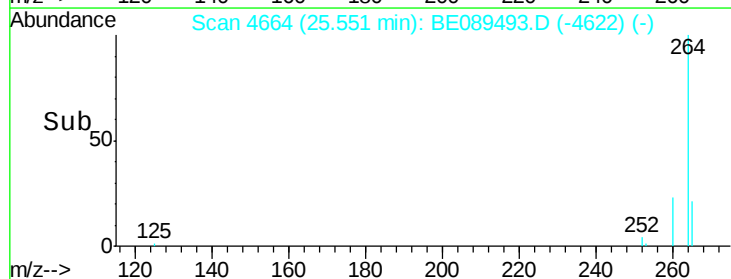
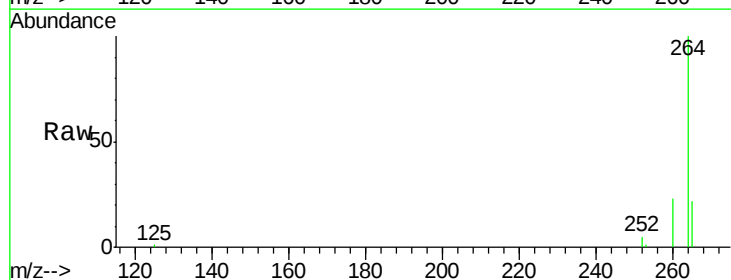
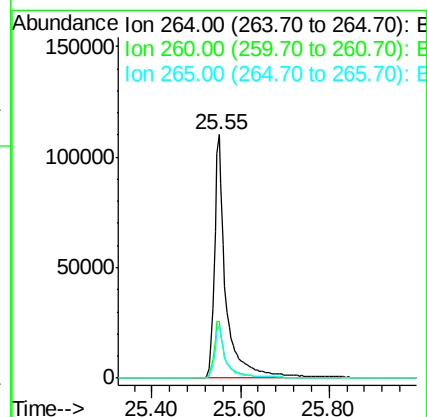
Tgt Ion:264 Resp: 200639

Ion Ratio Lower Upper

264 100

260 23.3 19.4 29.0

265 21.6 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.49 ng

RT: 25.10 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :

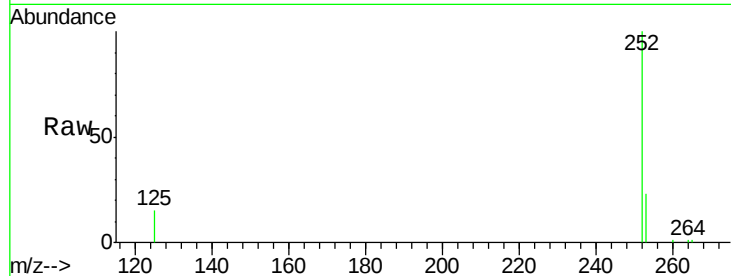
Tgt Ion:252 Resp: 11350

Ion Ratio Lower Upper

252 100

253 23.2 17.0 25.6

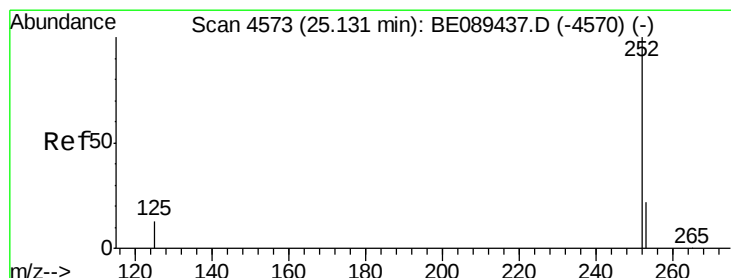
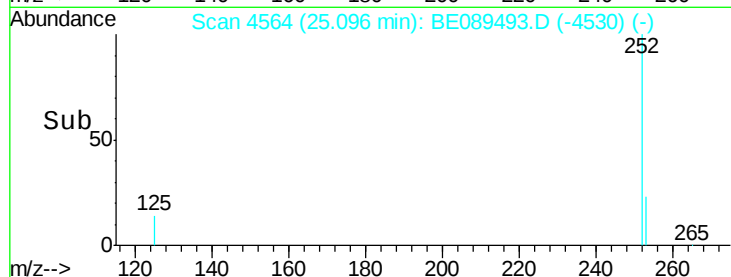
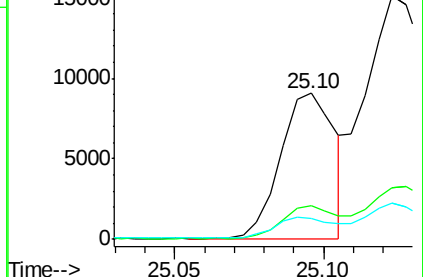
125 14.6 11.4 17.0



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: 0.94 ng

RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

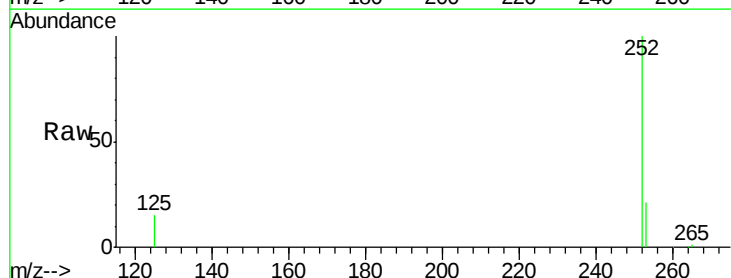
Tgt Ion:252 Resp: 47851

Ion Ratio Lower Upper

252 100

253 21.0 17.4 26.2

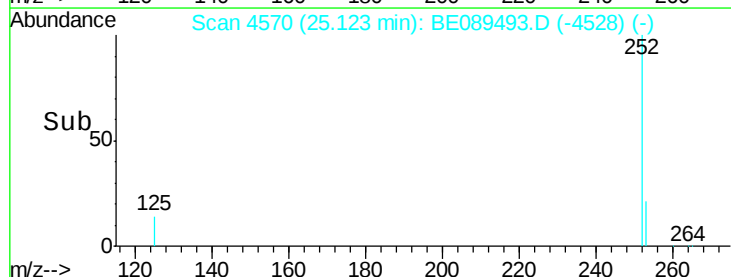
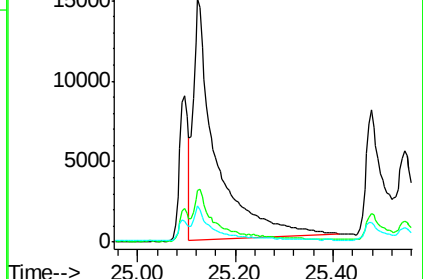
125 14.7 10.9 16.3



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: 0.55 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :

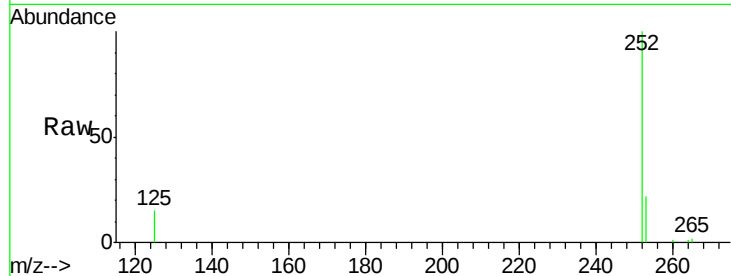
Tgt Ion:252 Resp: 15956

Ion Ratio Lower Upper

252 100

253 22.2 17.3 25.9

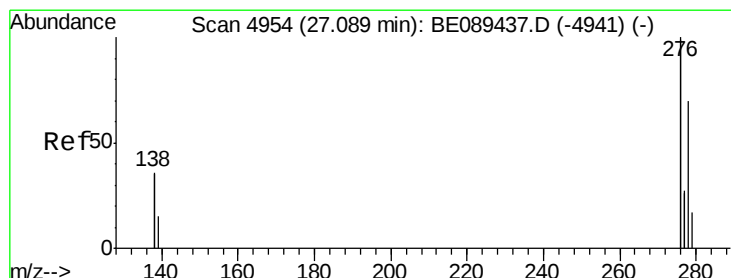
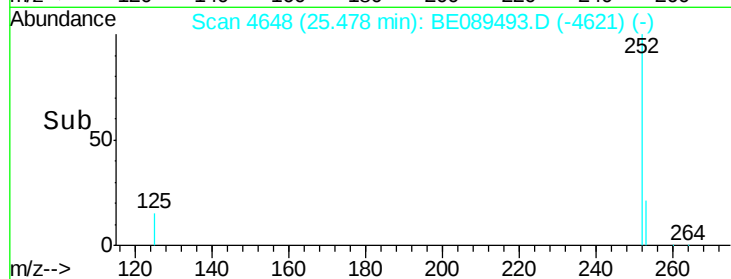
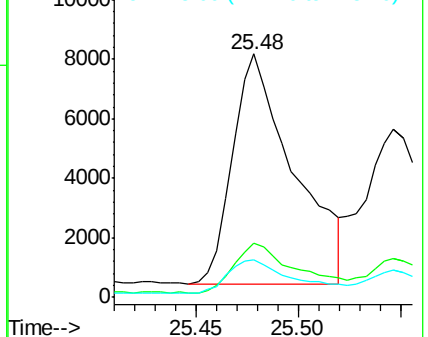
125 15.2 12.0 18.0



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



#26

Dibenzo(a,h)anthracene

Concen: 0.47 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

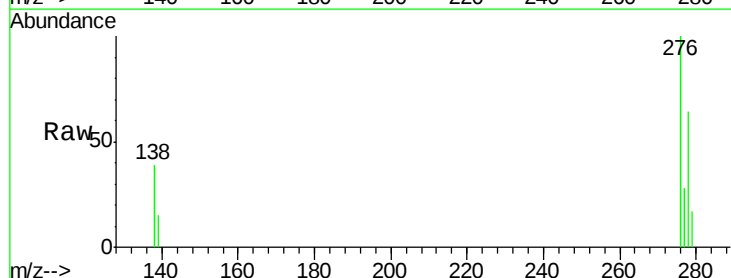
Tgt Ion:278 Resp: 14248

Ion Ratio Lower Upper

278 100

139 22.9 17.0 25.4

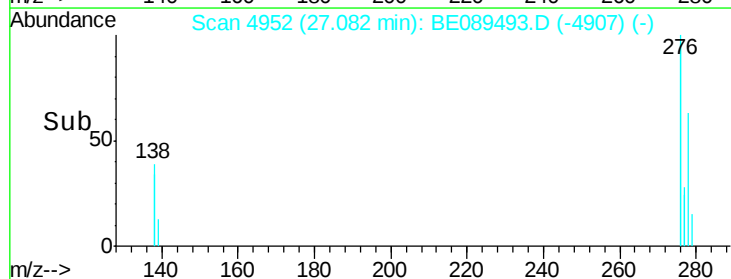
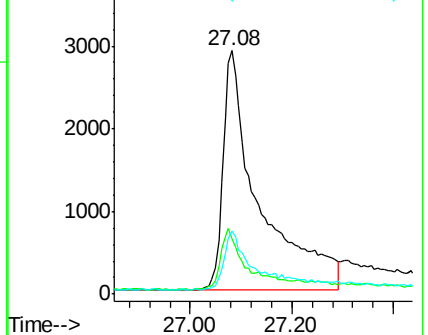
279 25.9 19.1 28.7



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.65 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

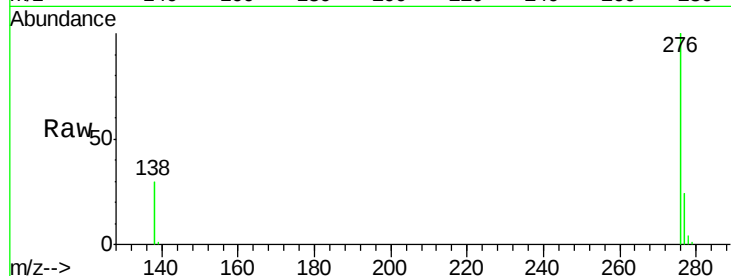
Lab File: BE089493.D

Acq: 1 Feb 2015 10:18

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 276 Resp: 104254

Ion Ratio Lower Upper

276 100

277 24.2 18.4 27.6

138 29.8 23.7 35.5

