

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089578.D
 Acq On : 8 Feb 2015 5:33
 Operator : TP/IZ
 Sample : MDL-06-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:27:03 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

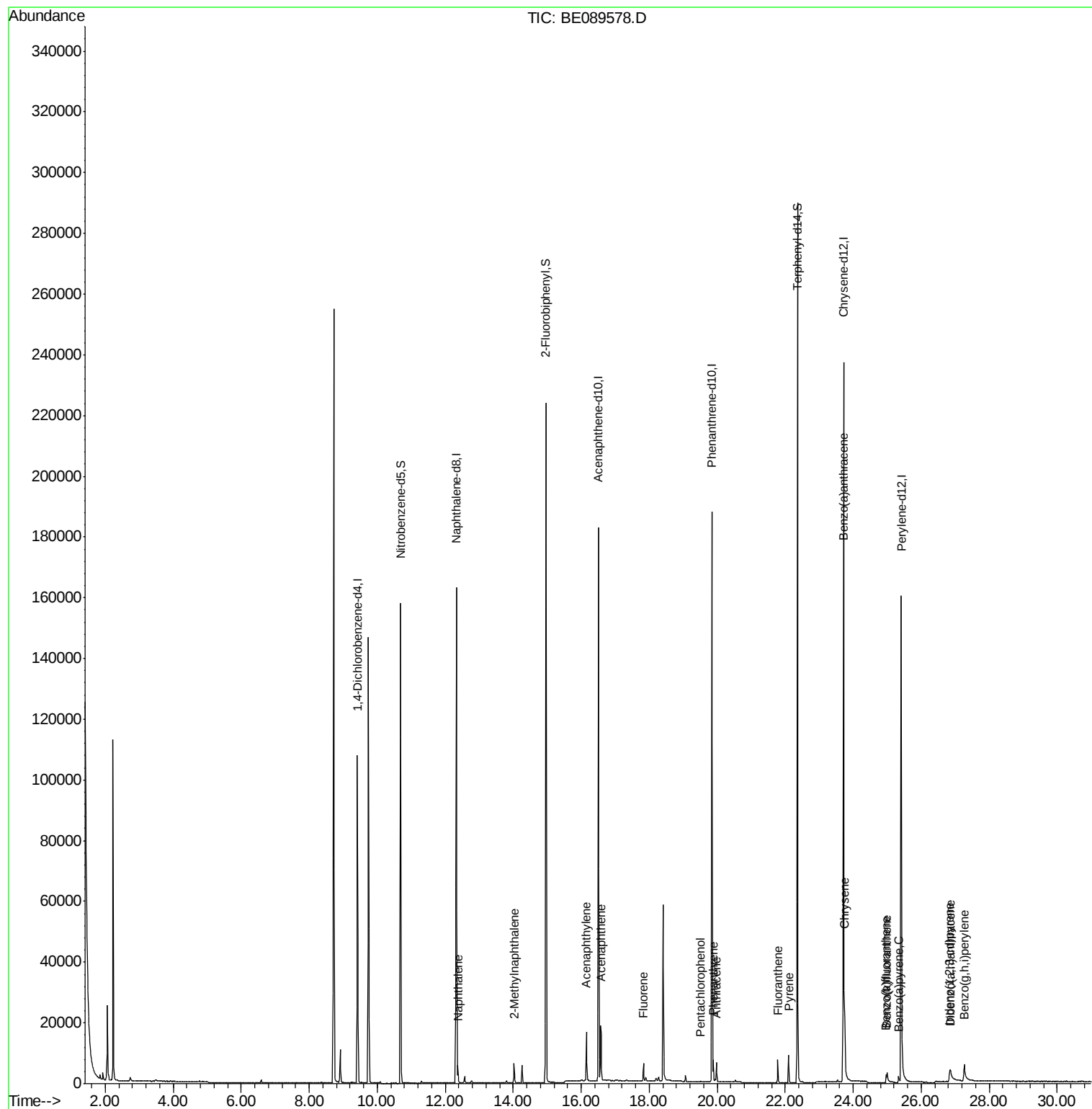
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	44379	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	190167	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	105094	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	187424	5.00	ng	0.00
16) Chrysene-d12	23.72	240	189869	5.00	ng	0.00
22) Perylene-d12	25.41	264	162113	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	107401	8.50	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	198767	7.09	ng	0.00
18) Terphenyl-d14	22.36	244	243749	9.73	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.37	128	6306	0.15	ng	99
5) 2-Methylnaphthalene	14.03	142	3807	0.16	ng	92
8) Acenaphthylene	16.16	152	21561	0.12	ng	98
9) Acenaphthene	16.58	154	3729	0.13	ng	95
10) Fluorene	17.83	166	4077	0.14	ng	96
12) Pentachlorophenol	19.52	266	271	0.72	ng	94
13) Phenanthrene	19.89	178	7012	0.15	ng	98
14) Anthracene	19.98	178	5820	0.15	ng	98
15) Fluoranthene	21.79	202	5821	0.13	ng	97
17) Pyrene	22.10	202	6530	0.16	ng	99
19) Benzo(a)anthracene	23.70	228	22851	0.14	ng	97
20) Chrysene	23.75	228	26815	0.16	ng	98
21) Indeno(1,2,3-cd)pyrene	26.84	276	13120	0.05	ng	# 90
23) Benzo(b)fluoranthene	24.97	252	2722	0.09	ng	97
24) Benzo(k)fluoranthene	25.00	252	4985	0.13	ng	99
25) Benzo(a)pyrene	25.34	252	2704	0.09	ng	# 90
26) Dibenzo(a,h)anthracene	26.87	278	2357	0.06	ng	# 88
27) Benzo(g,h,i)perylene	27.27	276	13844	0.09	ng	94

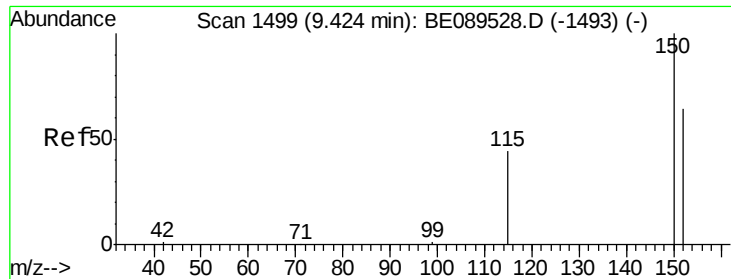
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1497

Delta R.T. -0.01 min

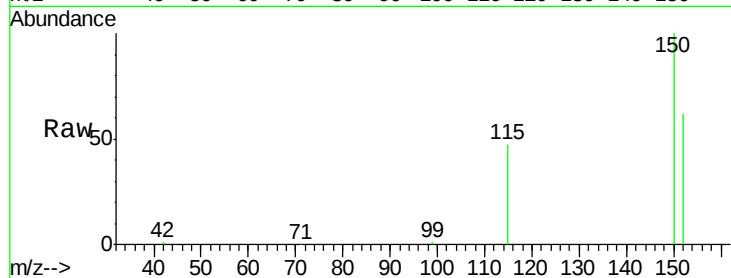
Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

Instrument :

BNA_E

ClientSampleId :



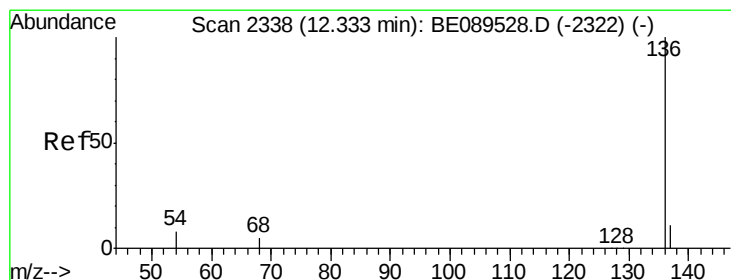
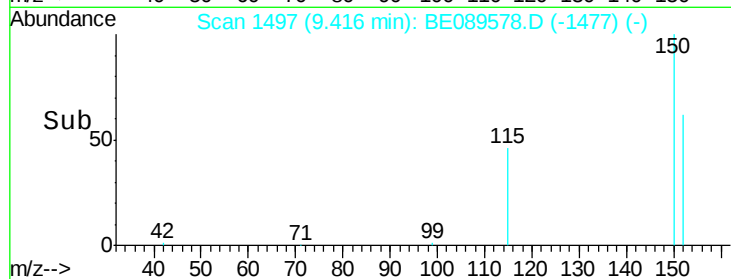
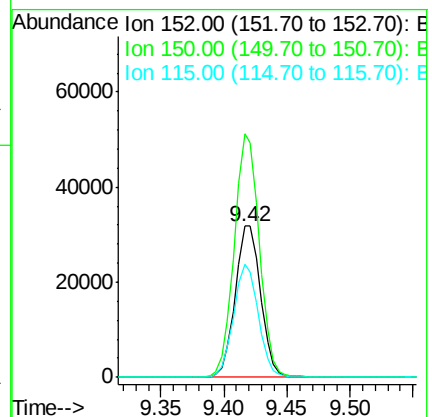
Tgt Ion:152 Resp: 44379

Ion Ratio Lower Upper

152 100

150 160.9 125.7 188.5

115 74.8 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.32 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

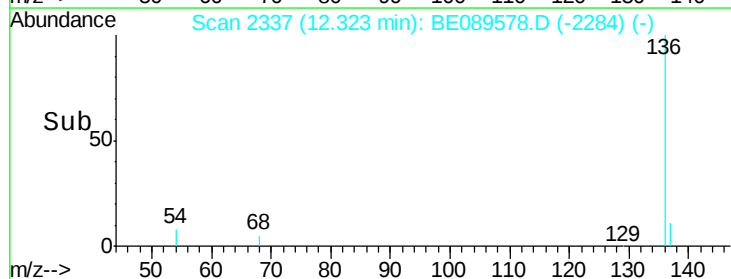
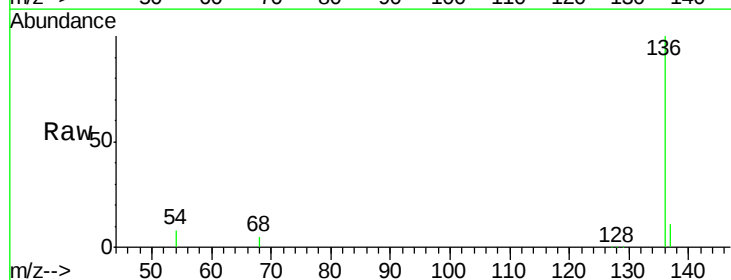
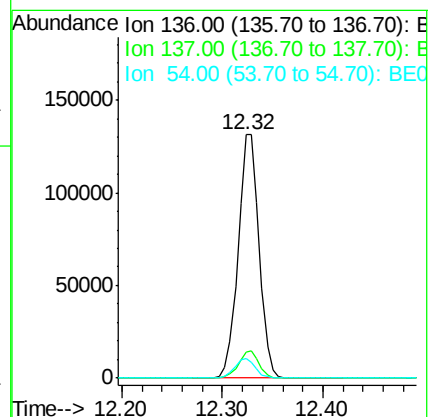
Tgt Ion:136 Resp: 190167

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 8.2 6.1 9.1





#3

Nitrobenzene-d5

Concen: 8.50 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.01 min

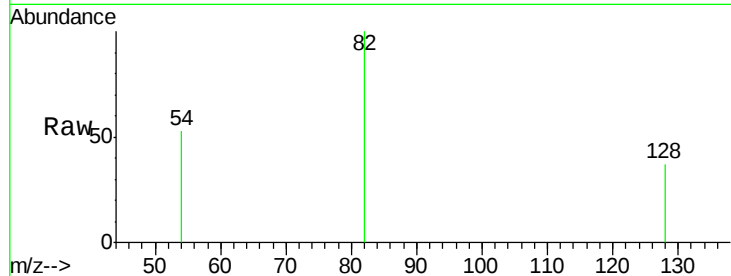
Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

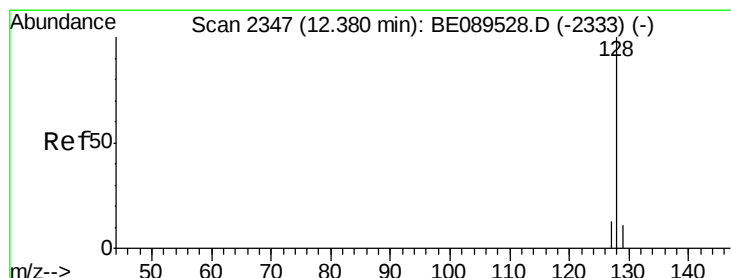
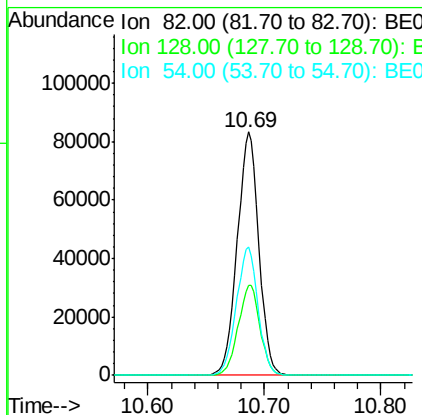
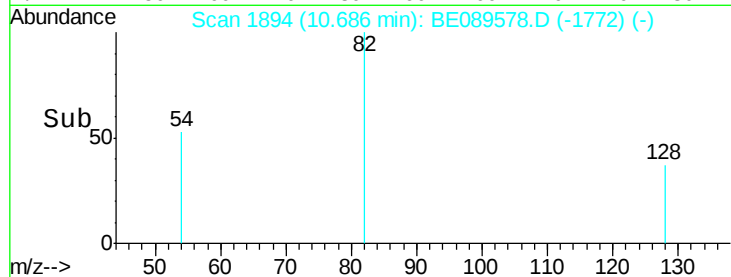
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	107401
Ion	Ratio	Lower	Upper
82	100		
128	37.2	30.2	45.4
54	52.6	40.6	60.8



#4

Naphthalene

Concen: 0.15 ng

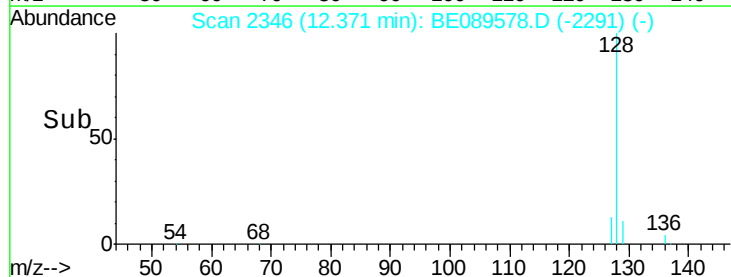
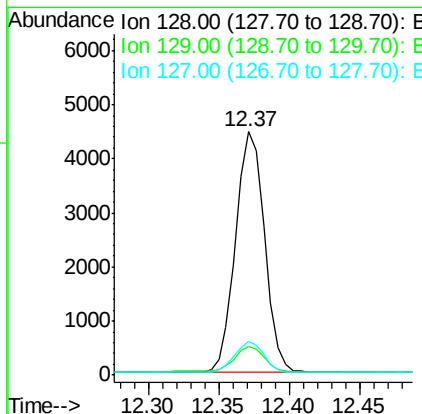
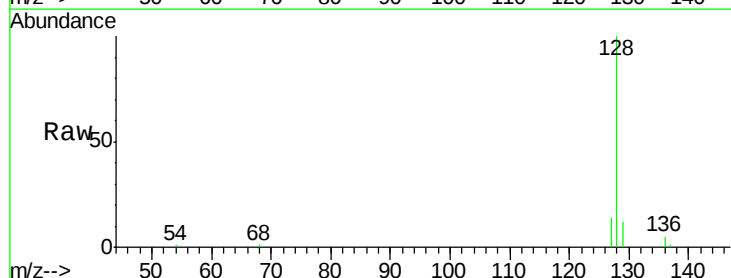
RT: 12.37 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

Tgt Ion:	128	Resp:	6306
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.1	13.7
127	13.7	10.5	15.7





#5

2-Methylnaphthalene

Concen: 0.16 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.01 min

Lab File: BE089578.D

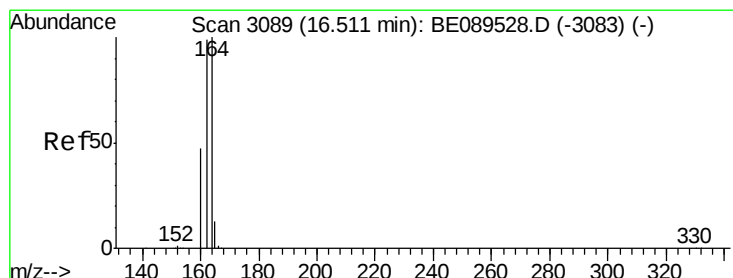
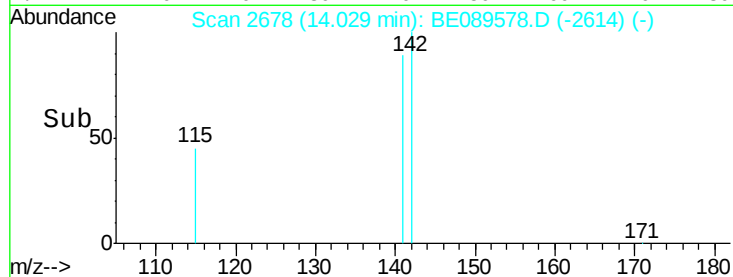
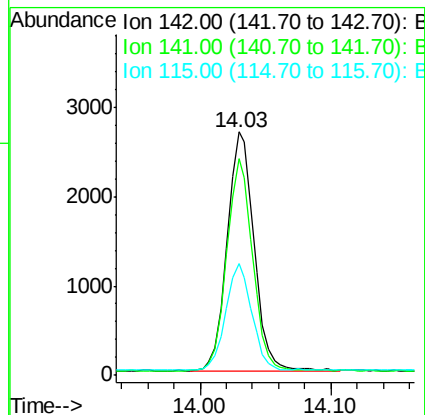
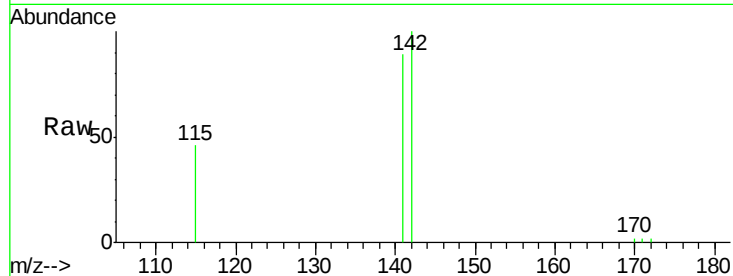
Acq: 8 Feb 2015 5:33

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	3807
Ion	Ratio	Lower	Upper
142	100		
141	89.2	67.0	100.6
115	45.8	30.6	45.8



#6

Acenaphthene-d10

Concen: 5.00 ng

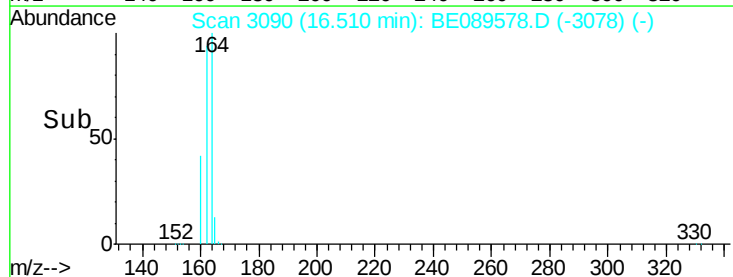
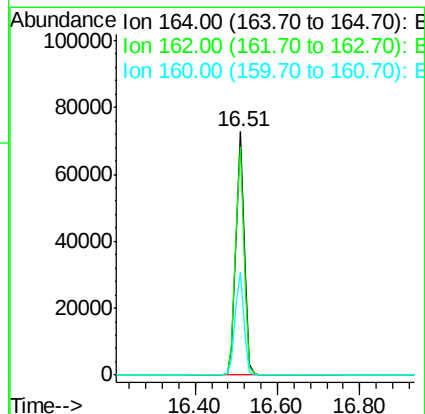
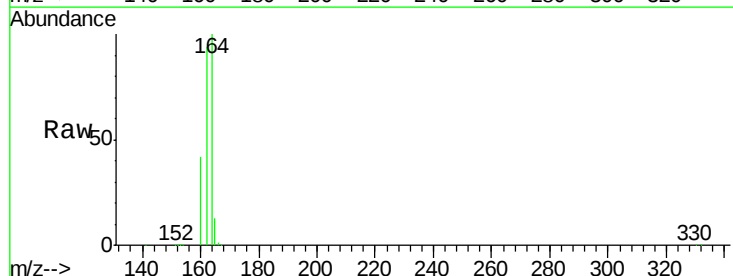
RT: 16.51 min Scan# 3090

Delta R.T. -0.00 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

Tgt Ion:	164	Resp:	105094
Ion	Ratio	Lower	Upper
164	100		
162	93.9	79.5	119.3
160	42.4	37.6	56.4





#7

2-Fluorobiphenyl

Concen: 7.09 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

Instrument :

BNA_E

ClientSampleId :

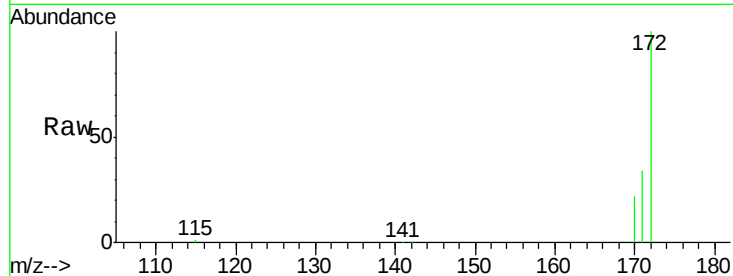
Tgt Ion:172 Resp: 198767

Ion Ratio Lower Upper

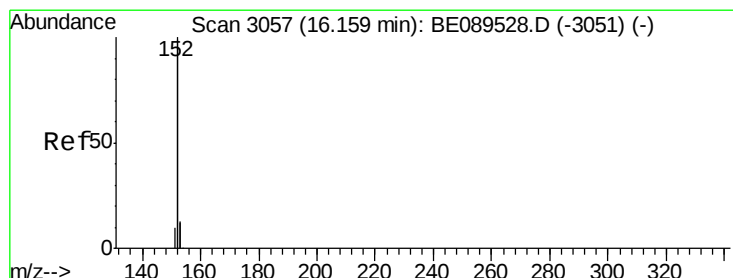
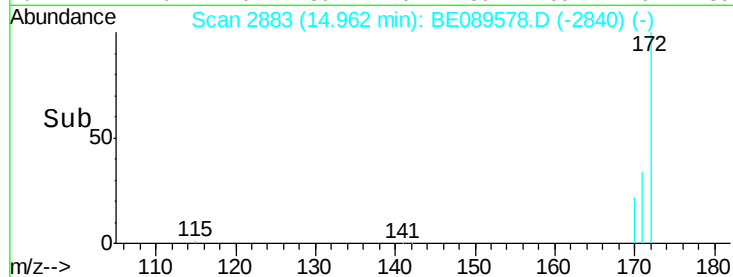
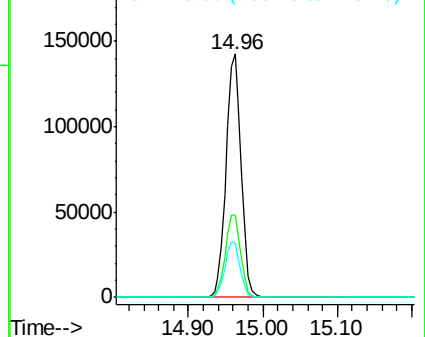
172 100

171 34.0 27.7 41.5

170 22.3 18.3 27.5



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.12 ng

RT: 16.16 min Scan# 3058

Delta R.T. -0.00 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

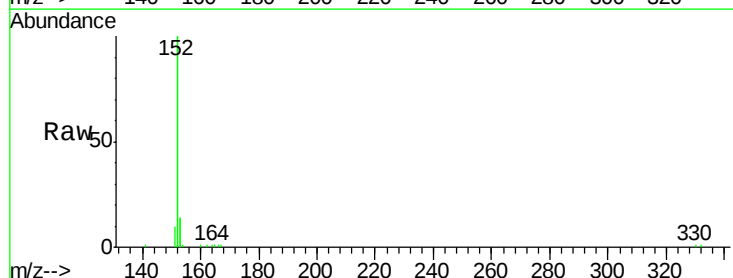
Tgt Ion:152 Resp: 21561

Ion Ratio Lower Upper

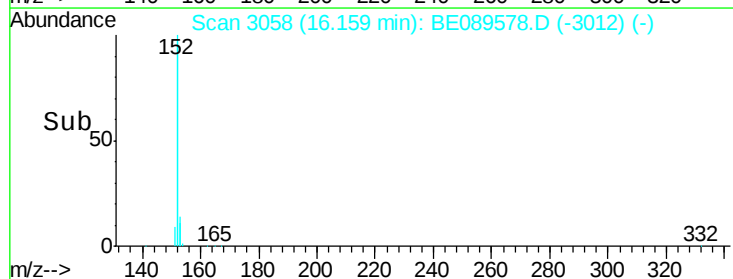
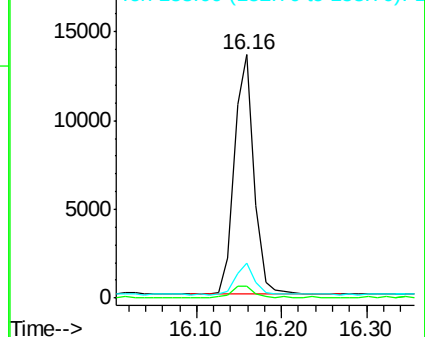
152 100

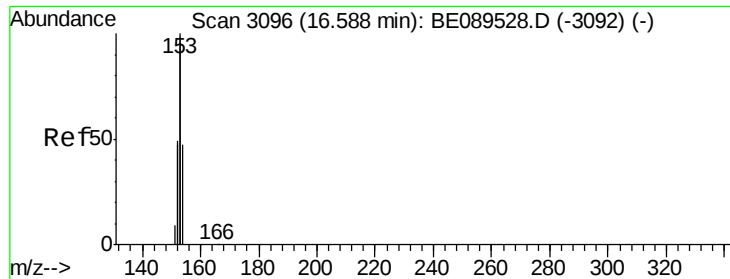
151 4.9 4.0 6.0

153 12.3 10.6 15.8



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.13 ng

RT: 16.58 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

Instrument :

BNA_E

ClientSampleId :

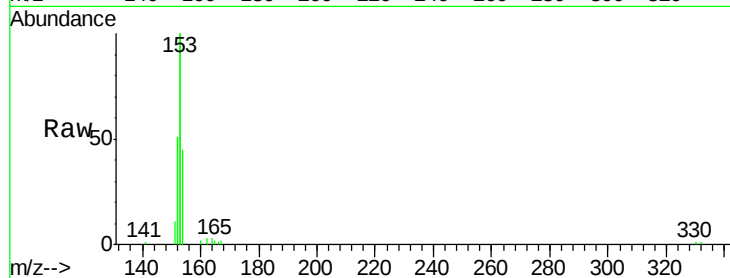
Tgt Ion:154 Resp: 3729

Ion Ratio Lower Upper

154 100

153 435.2 340.8 511.2

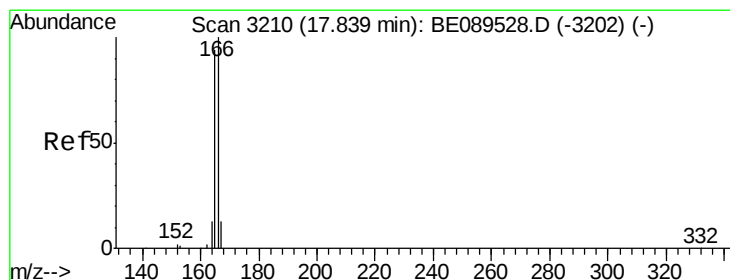
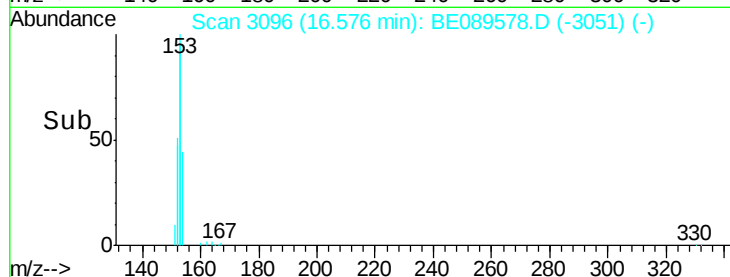
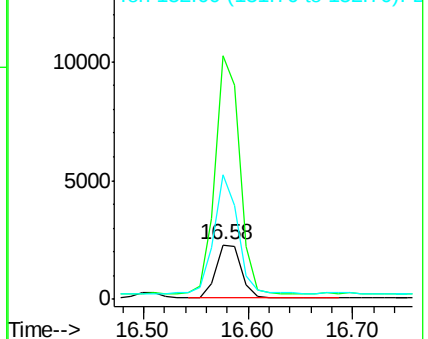
152 217.5 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.14 ng

RT: 17.83 min Scan# 3210

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

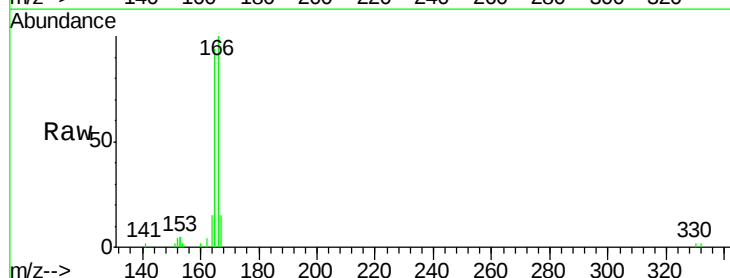
Tgt Ion:166 Resp: 4077

Ion Ratio Lower Upper

166 100

165 90.4 75.5 113.3

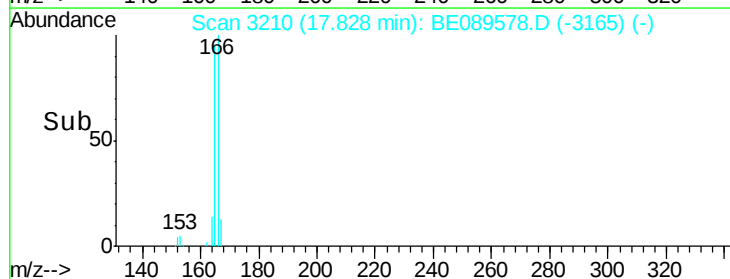
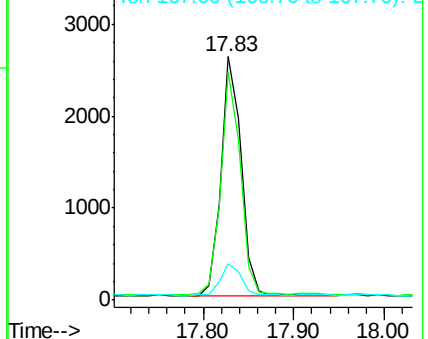
167 13.9 10.9 16.3

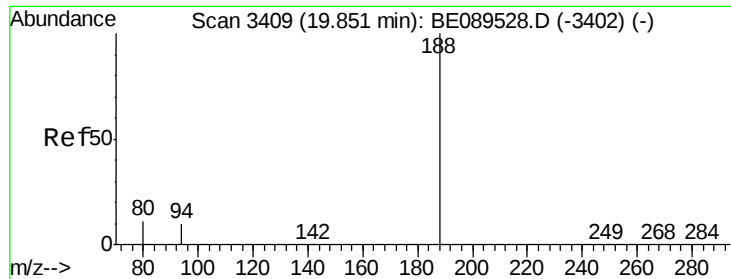


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

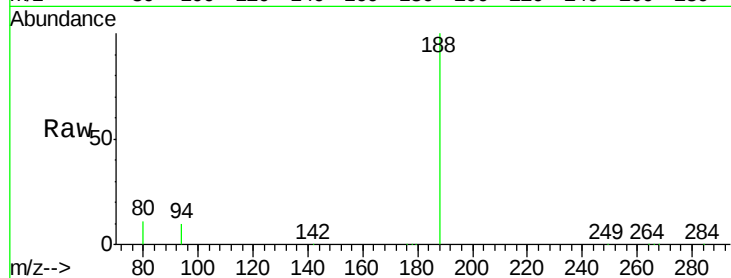




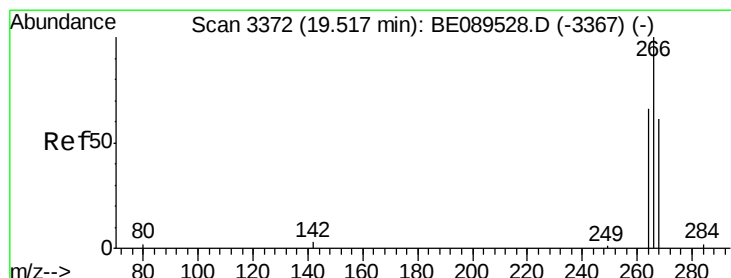
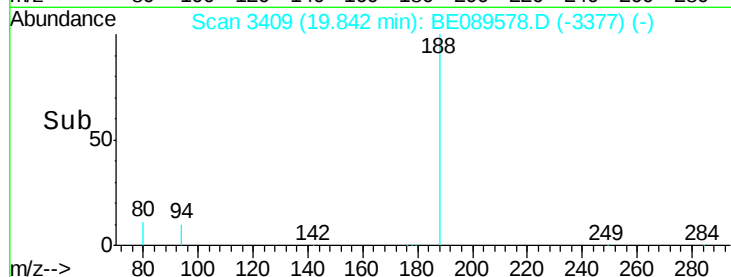
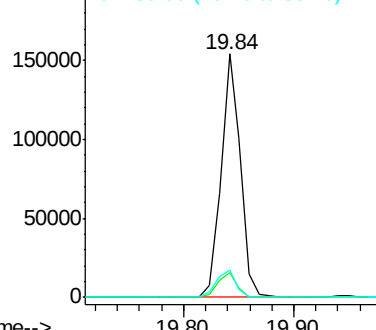
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3409
Delta R.T. -0.01 min
Lab File: BE089578.D
Acq: 8 Feb 2015 5:33

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 187424
Ion Ratio Lower Upper
188 100
94 10.2 8.4 12.6
80 11.2 8.6 12.8

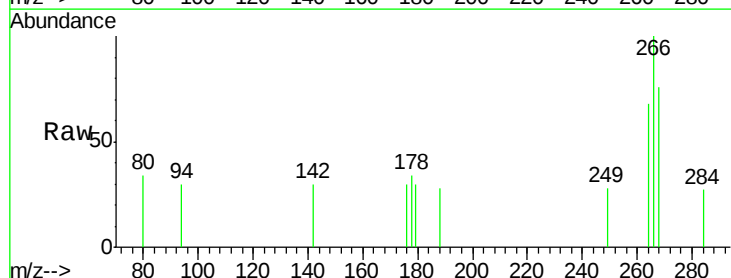


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

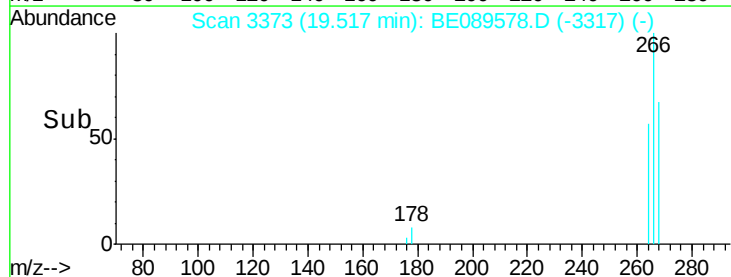
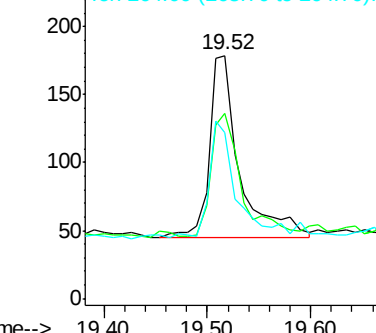


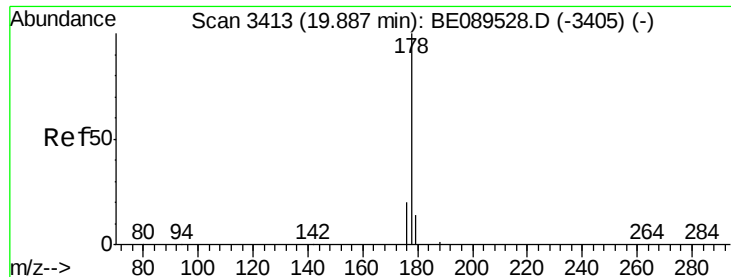
#12
Pentachlorophenol
Concen: 0.72 ng
RT: 19.52 min Scan# 3373
Delta R.T. 0.00 min
Lab File: BE089578.D
Acq: 8 Feb 2015 5:33

Tgt Ion:266 Resp: 271
Ion Ratio Lower Upper
266 100
268 76.0 57.9 86.9
264 68.2 60.2 90.4



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E

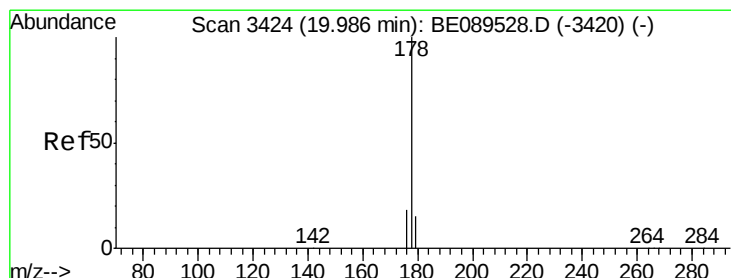
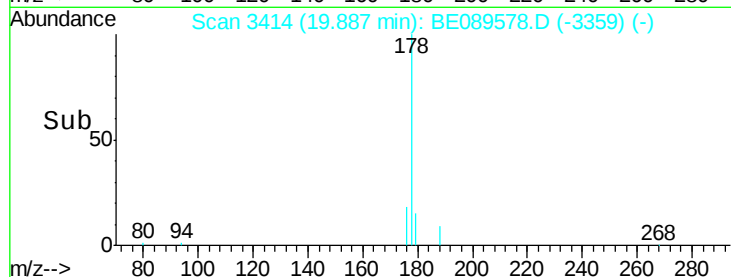
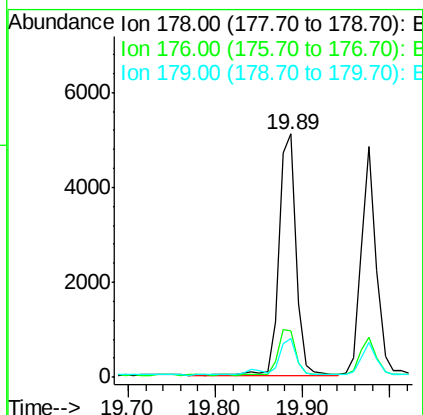
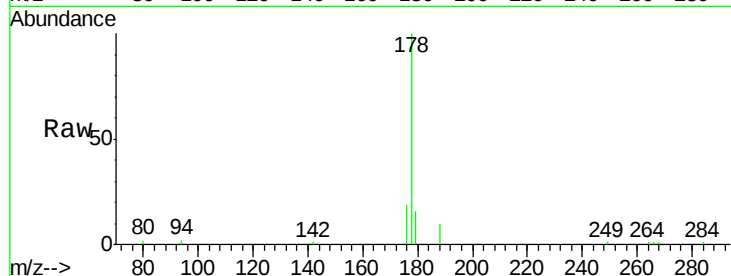




#13
Phenanthrene
Concen: 0.15 ng
RT: 19.89 min Scan# 3414
Delta R.T. -0.00 min
Lab File: BE089578.D
Acq: 8 Feb 2015 5:33

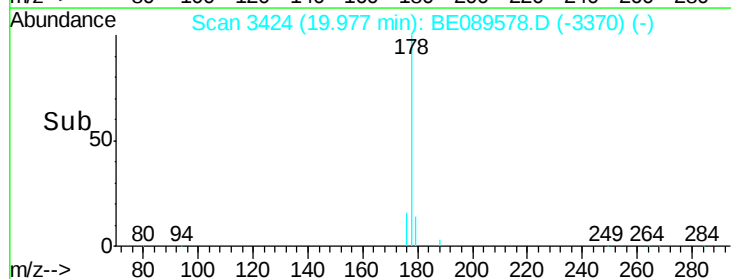
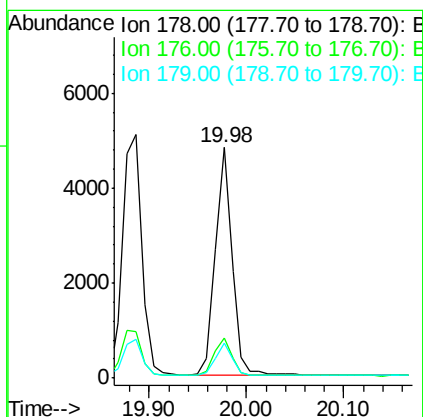
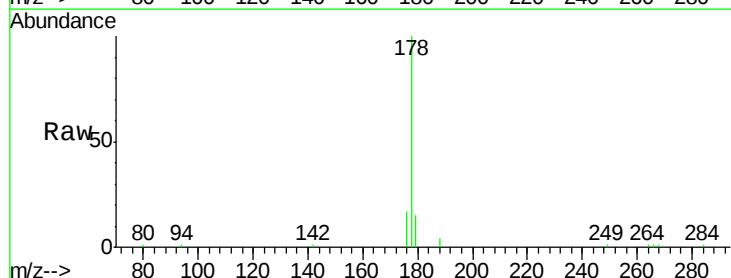
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:178 Resp: 7012
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 16.9 12.2 18.2



#14
Anthracene
Concen: 0.15 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089578.D
Acq: 8 Feb 2015 5:33

Tgt Ion:178 Resp: 5820
Ion Ratio Lower Upper
178 100
176 17.2 14.5 21.7
179 14.2 12.2 18.2

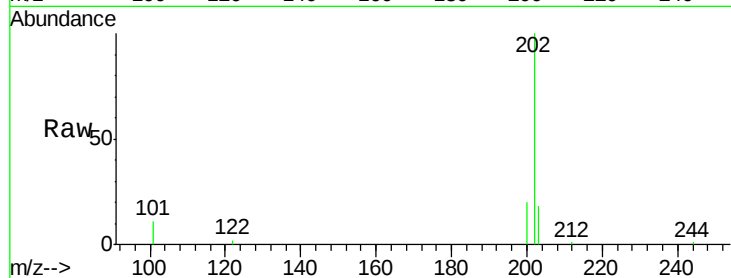




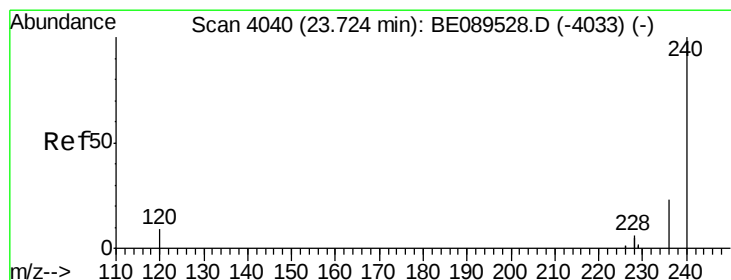
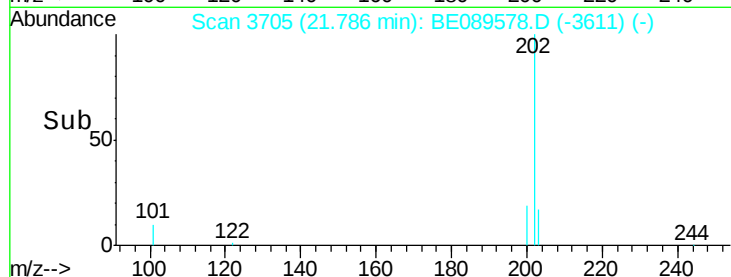
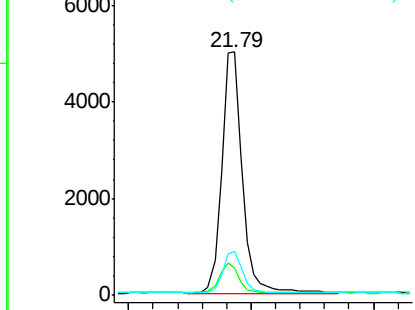
#15
 Fluoranthene
 Concen: 0.13 ng
 RT: 21.79 min Scan# 3705
 Delta R.T. -0.00 min
 Lab File: BE089578.D
 Acq: 8 Feb 2015 5:33

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 5821
 Ion Ratio Lower Upper
 202 100
 101 11.8 11.6 17.4
 203 16.9 13.6 20.4

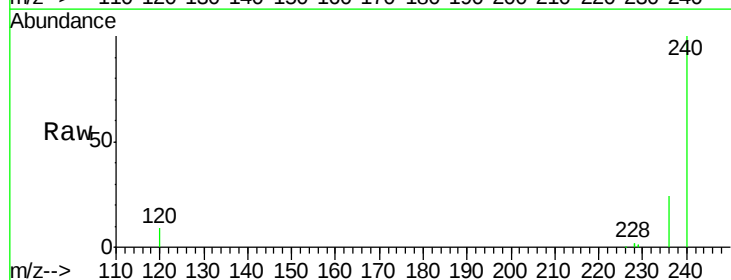


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

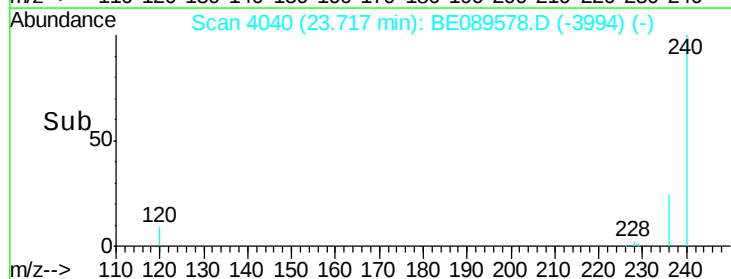
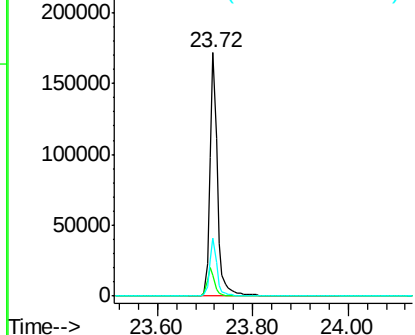


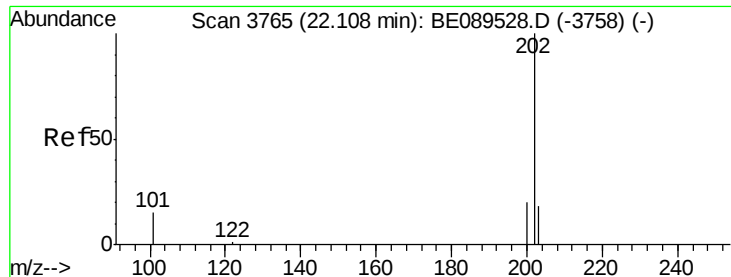
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.01 min
 Lab File: BE089578.D
 Acq: 8 Feb 2015 5:33

Tgt Ion: 240 Resp: 189869
 Ion Ratio Lower Upper
 240 100
 120 8.7 7.2 10.8
 236 23.7 18.5 27.7



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: 0.16 ng

RT: 22.10 min Scan# 3764

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

Instrument :

BNA_E

ClientSampleId :

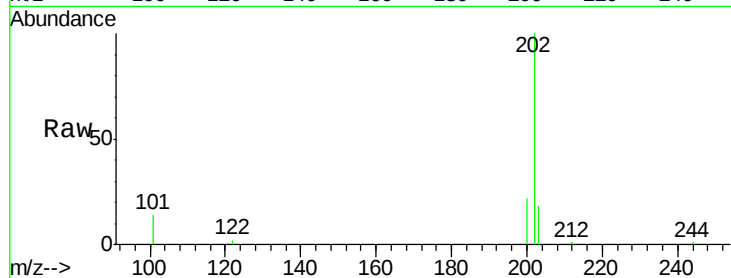
Tgt Ion:202 Resp: 6530

Ion Ratio Lower Upper

202 100

200 20.5 16.3 24.5

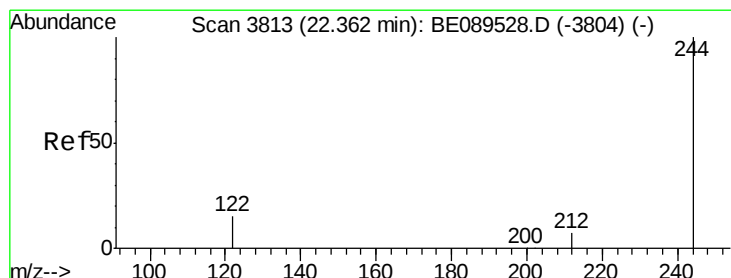
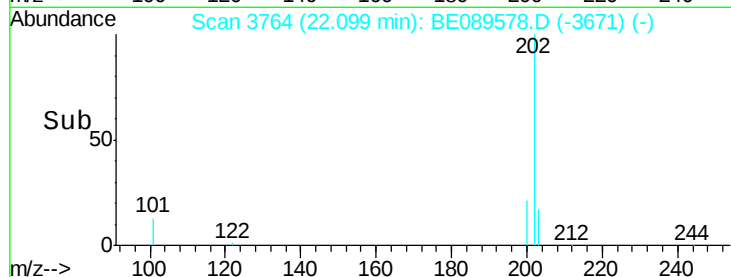
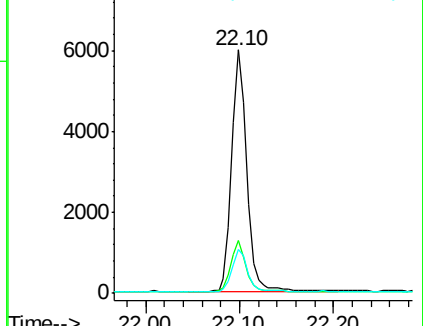
203 17.7 13.5 20.3



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: 9.73 ng

RT: 22.36 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

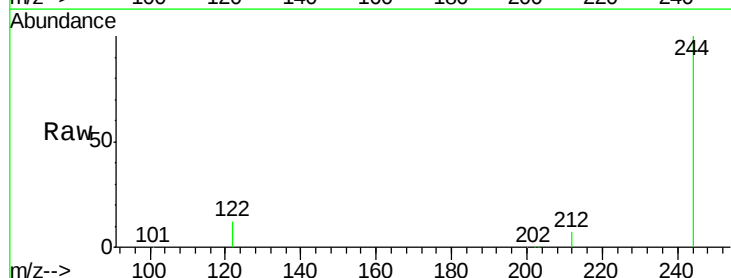
Tgt Ion:244 Resp: 243749

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

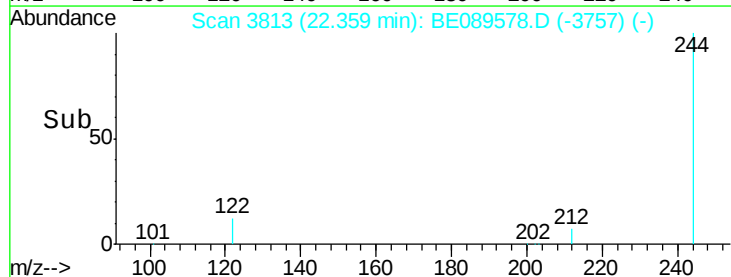
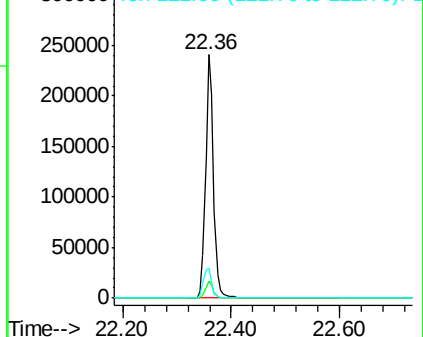
122 12.4 12.6 19.0#

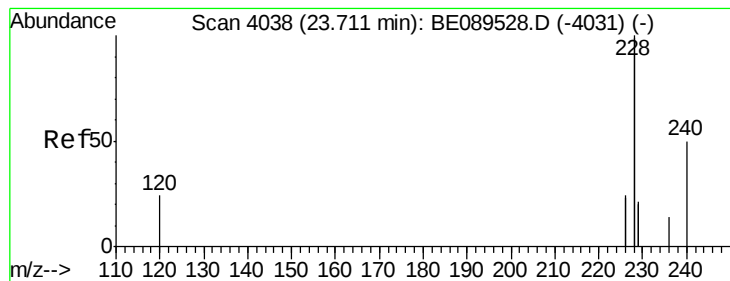


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.14 ng

RT: 23.70 min Scan# 4038

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

Instrument :

BNA_E

ClientSampleId :

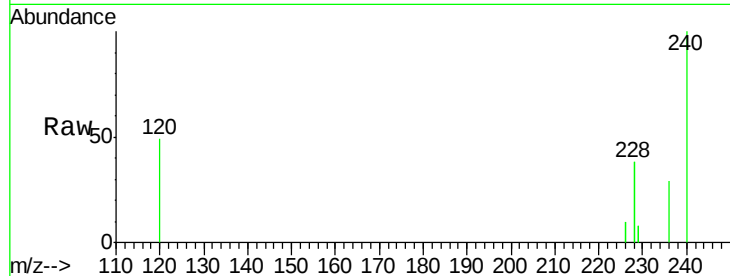
Tgt Ion:228 Resp: 22851

Ion Ratio Lower Upper

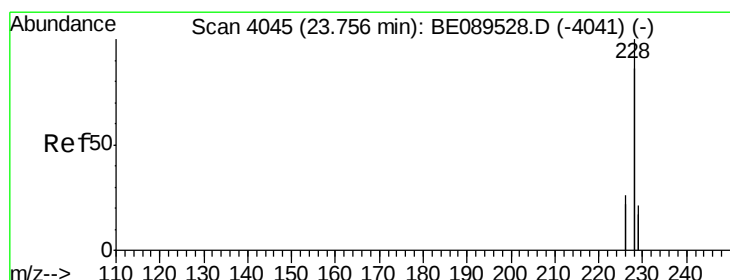
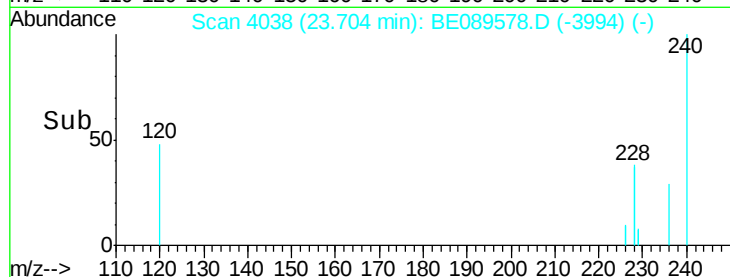
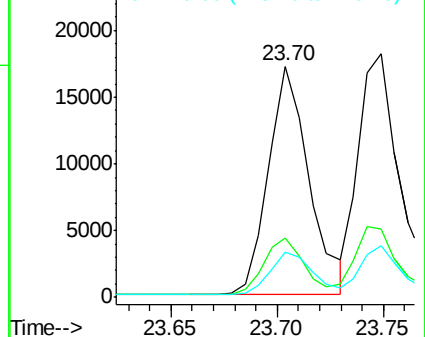
228 100

226 25.6 19.0 28.4

229 19.8 16.8 25.2



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 0.16 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

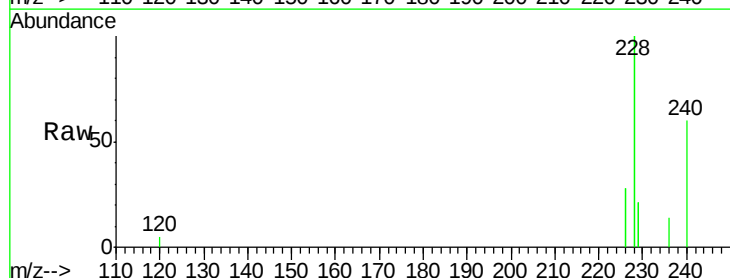
Tgt Ion:228 Resp: 26815

Ion Ratio Lower Upper

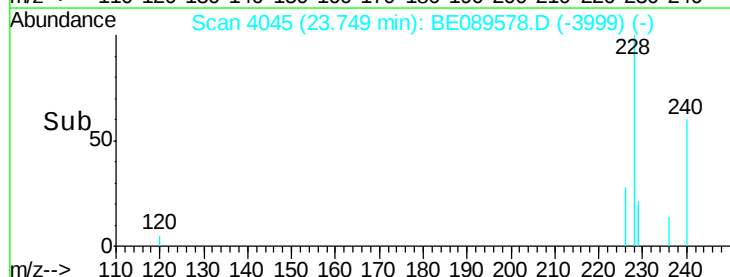
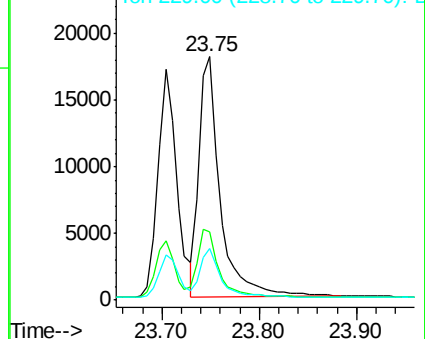
228 100

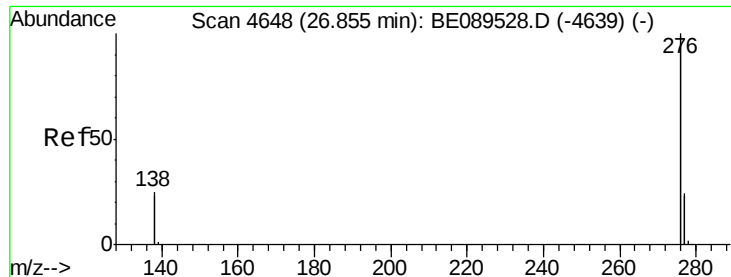
226 27.8 21.0 31.4

229 21.4 16.7 25.1



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

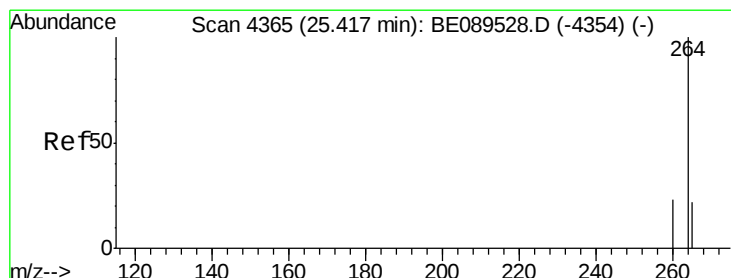
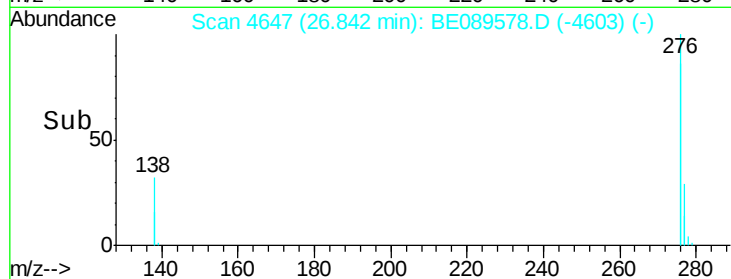
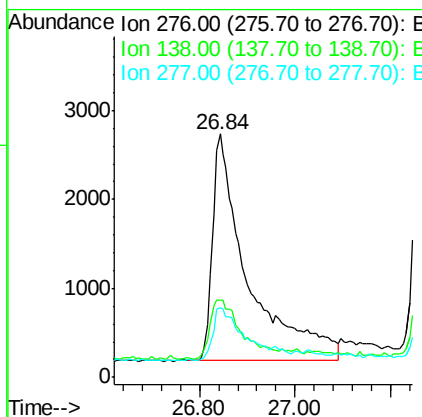
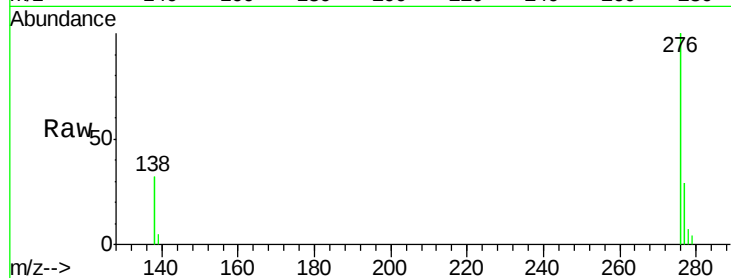




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.05 ng
 RT: 26.84 min Scan# 4647
 Delta R.T. -0.01 min
 Lab File: BE089578.D
 Acq: 8 Feb 2015 5:33

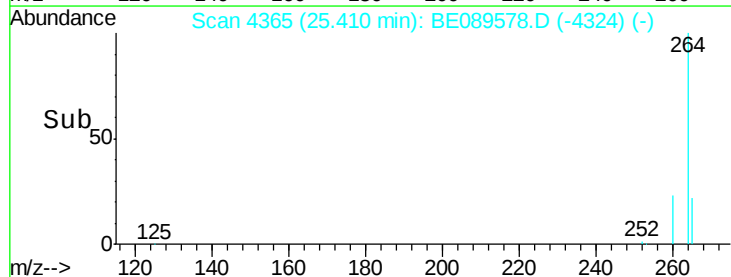
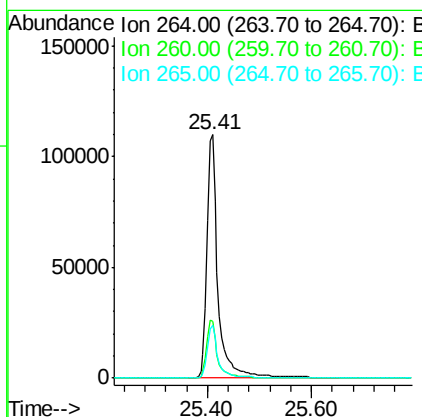
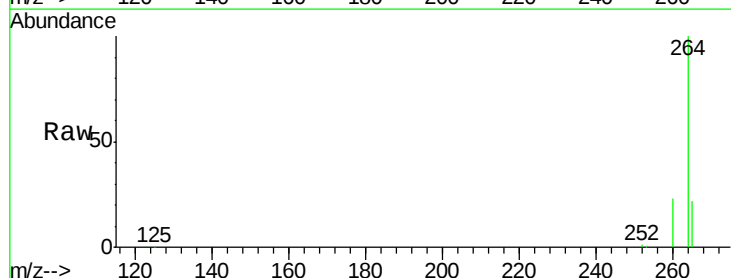
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 13120
 Ion Ratio Lower Upper
 276 100
 138 23.3 23.0 34.4
 277 19.7 19.9 29.9#



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.41 min Scan# 4365
 Delta R.T. -0.01 min
 Lab File: BE089578.D
 Acq: 8 Feb 2015 5:33

Tgt Ion: 264 Resp: 162113
 Ion Ratio Lower Upper
 264 100
 260 23.2 18.7 28.1
 265 21.7 17.5 26.3

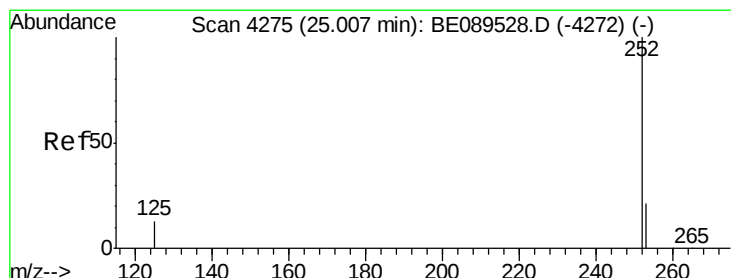
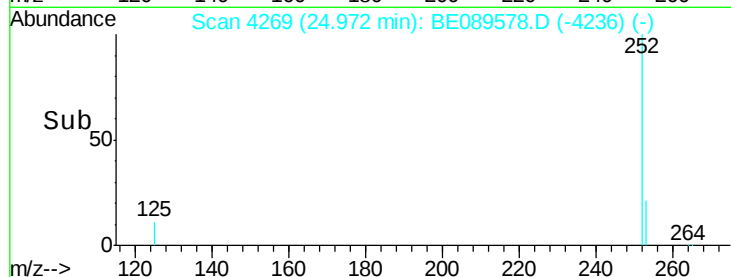
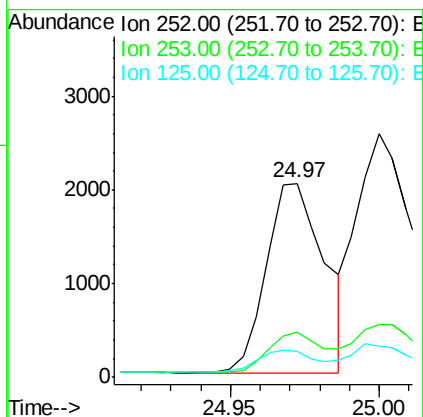
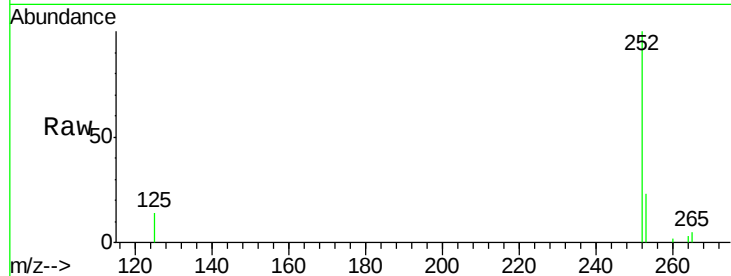




#23
Benzo(b)fluoranthene
Concen: 0.09 ng
RT: 24.97 min Scan# 4269
Delta R.T. -0.01 min
Lab File: BE089578.D
Acq: 8 Feb 2015 5:33

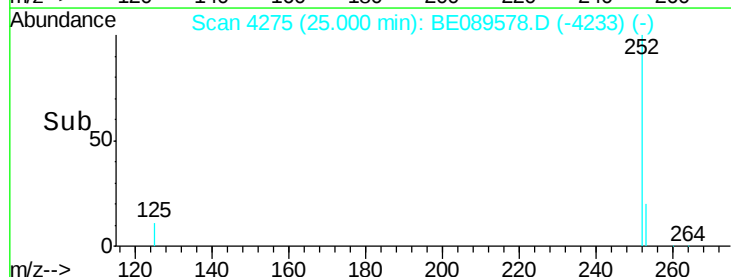
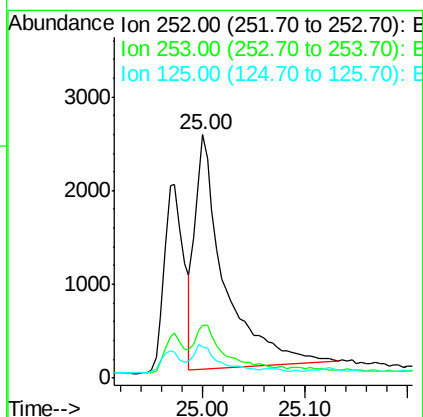
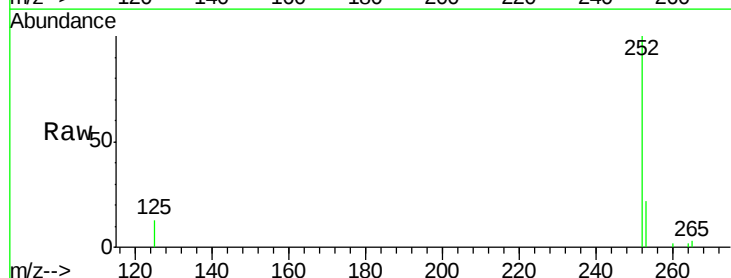
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:252 Resp: 2722
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.0
125 13.6 10.4 15.6



#24
Benzo(k)fluoranthene
Concen: 0.13 ng
RT: 25.00 min Scan# 4275
Delta R.T. -0.01 min
Lab File: BE089578.D
Acq: 8 Feb 2015 5:33

Tgt Ion:252 Resp: 4985
Ion Ratio Lower Upper
252 100
253 21.9 17.2 25.8
125 12.9 10.6 15.8





#25

Benzo(a)pyrene

Concen: 0.09 ng

RT: 25.34 min Scan# 4349

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

Instrument :

BNA_E

ClientSampleId :

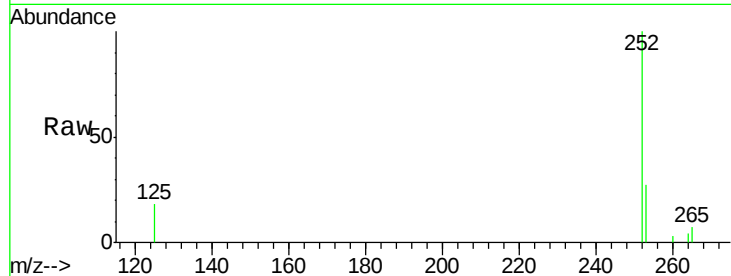
Tgt Ion: 252 Resp: 2704

Ion Ratio Lower Upper

252 100

253 27.0 17.8 26.6#

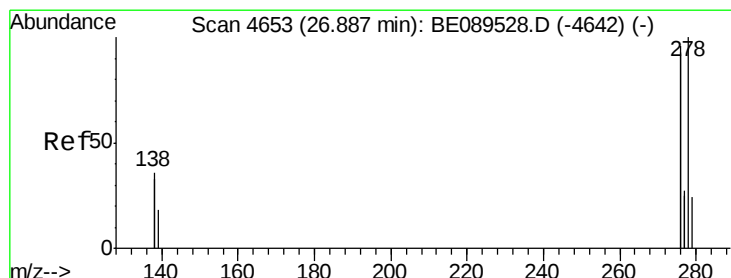
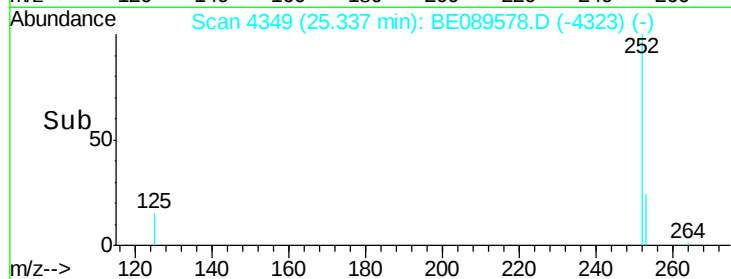
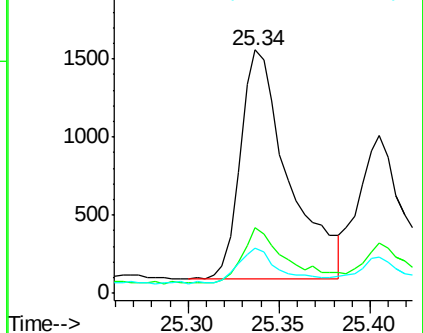
125 18.4 11.4 17.2#



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: 0.06 ng

RT: 26.87 min Scan# 4652

Delta R.T. -0.01 min

Lab File: BE089578.D

Acq: 8 Feb 2015 5:33

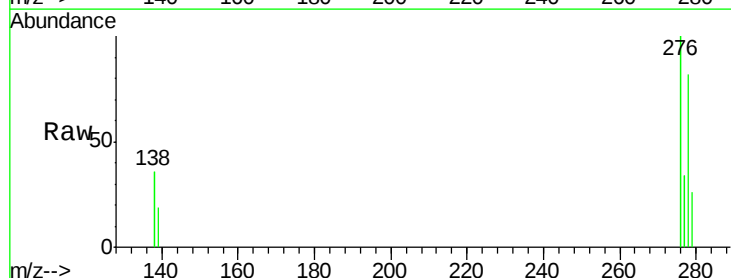
Tgt Ion: 278 Resp: 2357

Ion Ratio Lower Upper

278 100

139 23.3 15.7 23.5

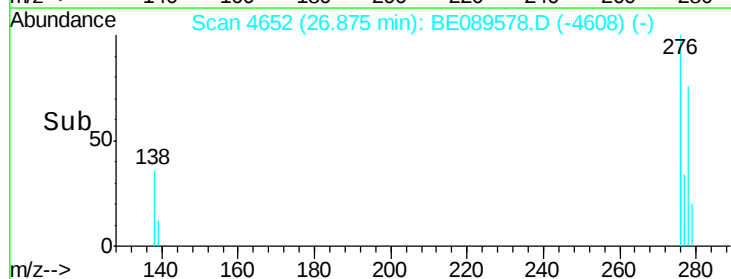
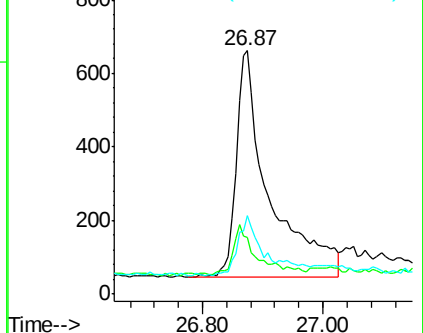
279 32.3 19.5 29.3#



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

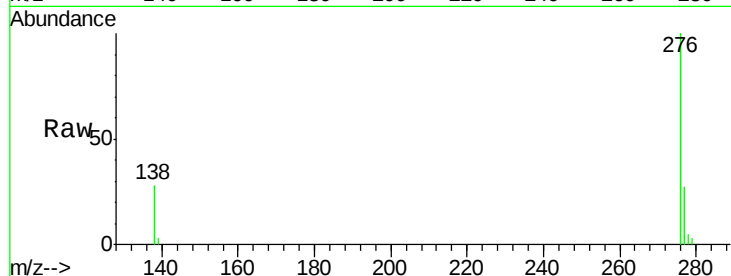




#27
 Benzo(g,h,i)perylene
 Concen: 0.09 ng
 RT: 27.27 min Scan# 4712
 Delta R.T. -0.02 min
 Lab File: BE089578.D
 Acq: 8 Feb 2015 5:33

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 13844
 Ion Ratio Lower Upper
 276 100
 277 27.0 18.6 27.8
 138 28.1 20.9 31.3



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

