

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE063015\
 Data File : BE090032.D
 Acq On : 1 Jul 2015 5:20
 Operator : TP/IZ
 Sample : G2824-02 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626-D

Quant Time: Jul 01 17:16:18 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 07:01:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	14907	5.00	ng	0.00
6) Naphthalene-d8	10.37	136	64220	5.00	ng	-0.01
12) Acenaphthene-d10	14.23	164	34621	5.00	ng	0.00
18) Phenanthrene-d10	16.96	188	80425	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	103552	5.00	ng	-0.01
32) Perylene-d12	23.44	264	103327	5.00	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.24	112	12336	3.60	ng	0.00
5) Phenol-d6	6.80	99	18257	3.81	ng	0.00
7) Nitrobenzene-d5	8.76	82	10547	2.07	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	3560	3.51	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	23201	2.23	ng	-0.01
27) Terphenyl-d14	19.58	244	36626	2.12	ng	-0.01

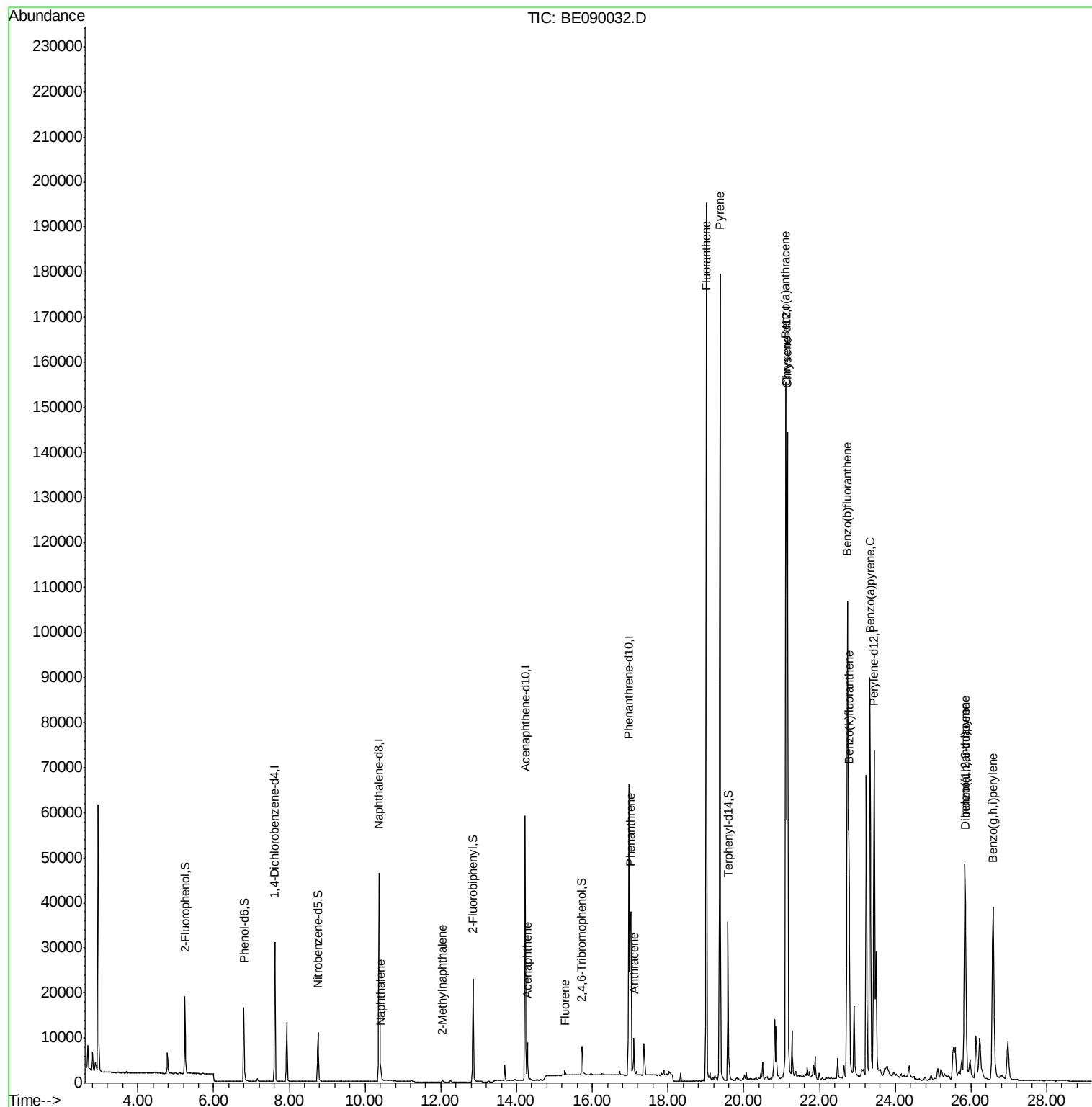
Target Compounds						Qvalue
9) Naphthalene	10.42	128	2094	0.14	ng	# 93
11) 2-Methylnaphthalene	12.04	142	342	0.04	ng	# 87
16) Acenaphthene	14.28	154	1426	0.16	ng	93
17) Fluorene	15.27	166	886	0.07	ng	# 93
22) Phenanthrene	17.01	178	52474	2.55	ng	100
23) Anthracene	17.10	178	10116m	0.54	ng	
24) Fluoranthene	19.01	202	168817	7.34	ng	99
26) Pyrene	19.37	202	159253	6.45	ng	96
28) Benzo(a)anthracene	21.10	228	122798	4.75	ng	99
29) Chrysene	21.16	228	133163	4.96	ng	98
31) Indeno(1,2,3-cd)pyrene	25.84	276	83880	3.26	ng	96
33) Benzo(b)fluoranthene	22.74	252	182019	7.99	ng	98
34) Benzo(k)fluoranthene	22.77	252	73086m	2.87	ng	
35) Benzo(a)pyrene	23.33	252	124544	5.92	ng	98
36) Dibenzo(a,h)anthracene	25.85	278	20425	0.95	ng	97
37) Benzo(g,h,i)perylene	26.58	276	86034	3.93	ng	98

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

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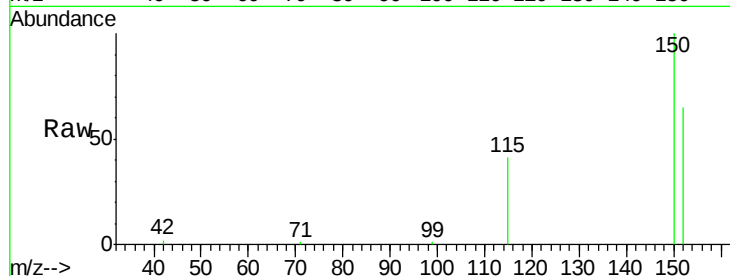


#1

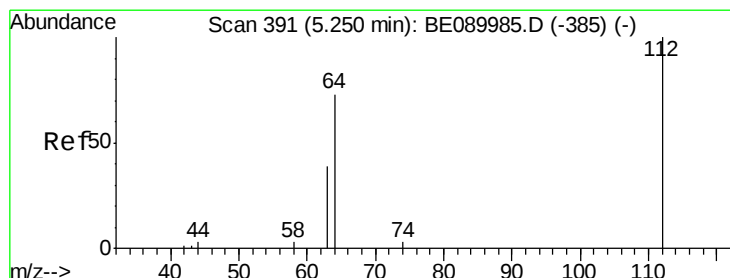
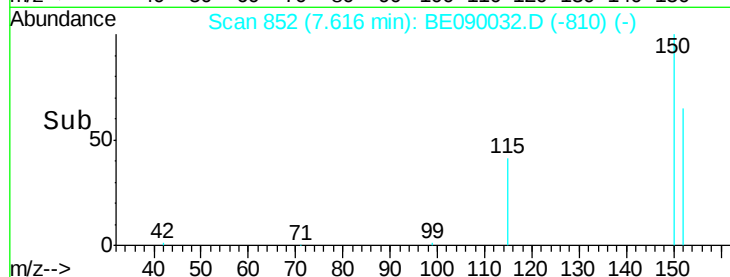
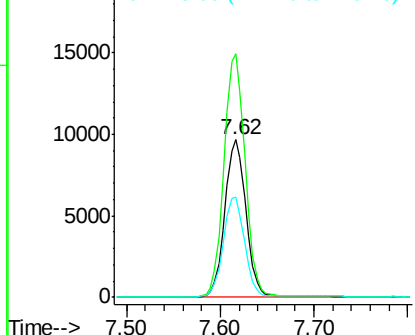
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.62 min Scan# 852
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626-D

Tgt Ion:152 Resp: 14907
Ion Ratio Lower Upper
152 100
150 154.6 123.9 185.9
115 63.4 50.6 76.0



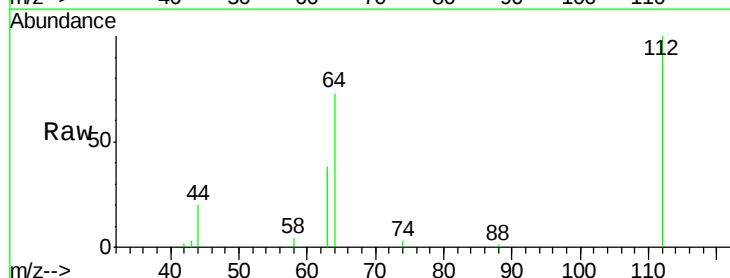
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



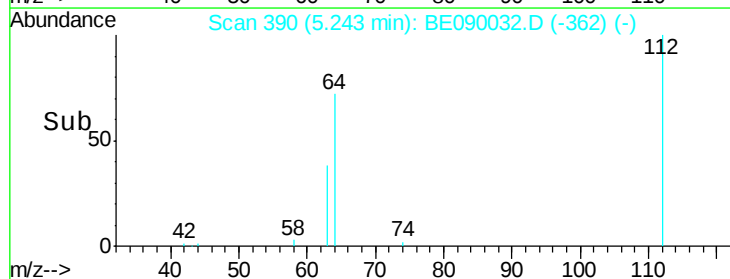
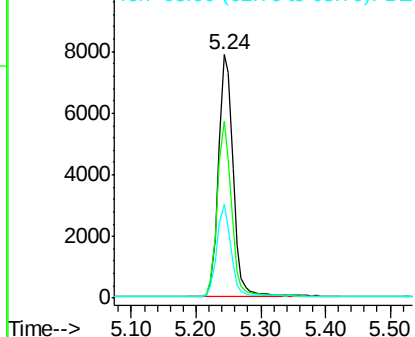
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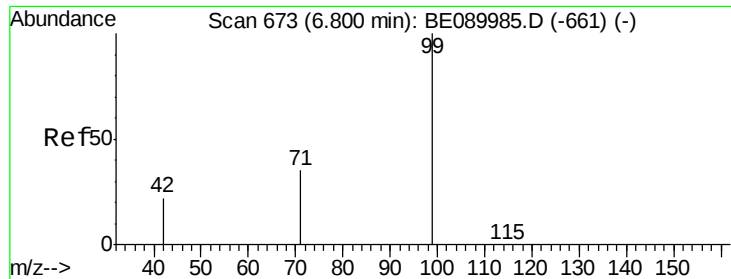
2-Fluorophenol
Concen: 3.60 ng
RT: 5.24 min Scan# 390
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Tgt Ion:112 Resp: 12336
Ion Ratio Lower Upper
112 100
64 70.2 56.3 84.5
63 36.7 29.8 44.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 3.81 ng

RT: 6.80 min Scan# 672

Delta R.T. -0.00 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

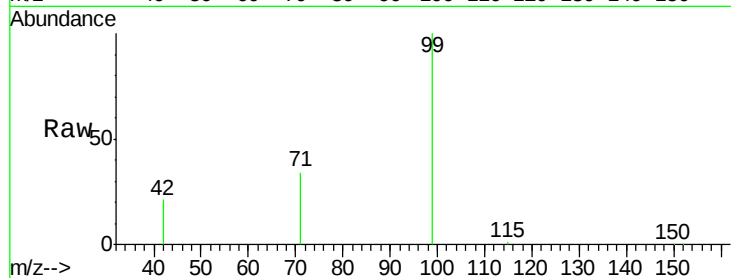
Tgt Ion: 99 Resp: 18257

Ion Ratio Lower Upper

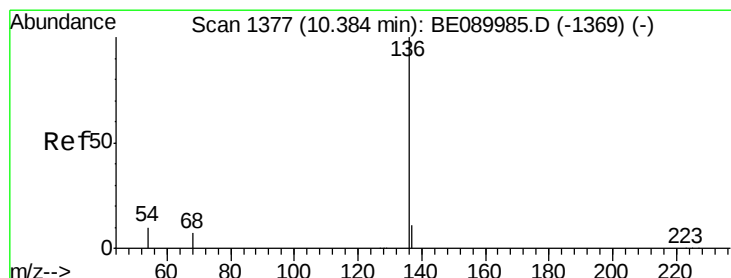
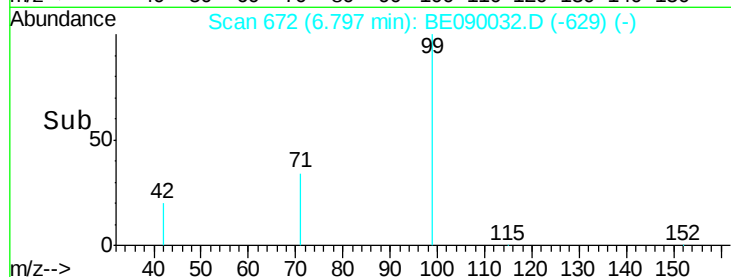
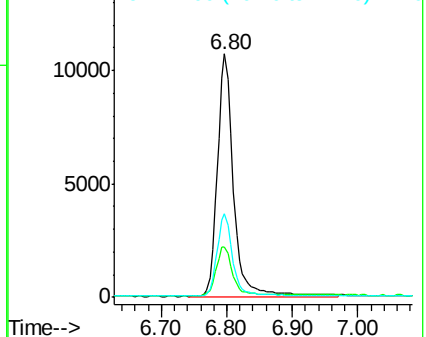
99 100

42 20.2 18.7 28.1

71 33.8 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.37 min Scan# 1375

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Tgt Ion: 136 Resp: 64220

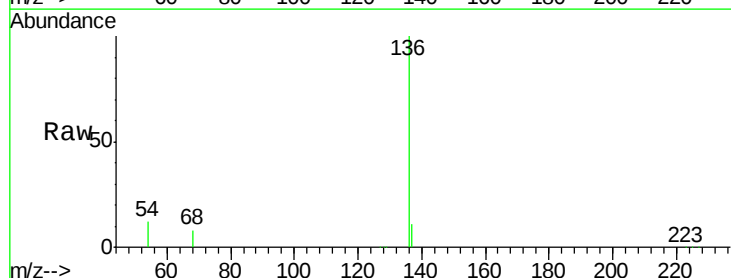
Ion Ratio Lower Upper

136 100

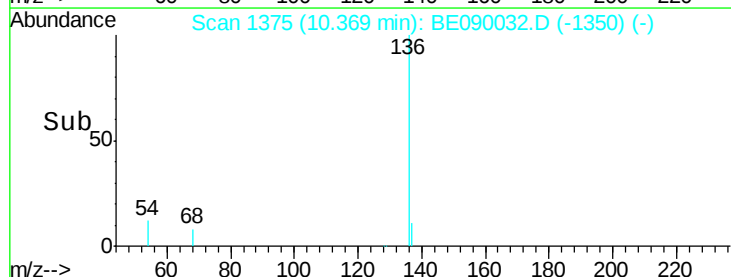
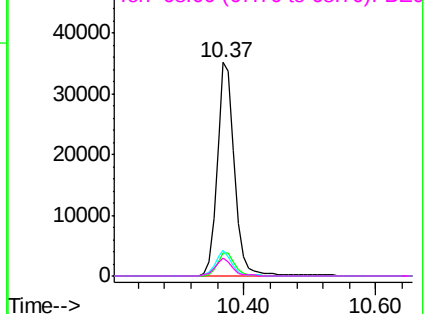
137 11.0 8.9 13.3

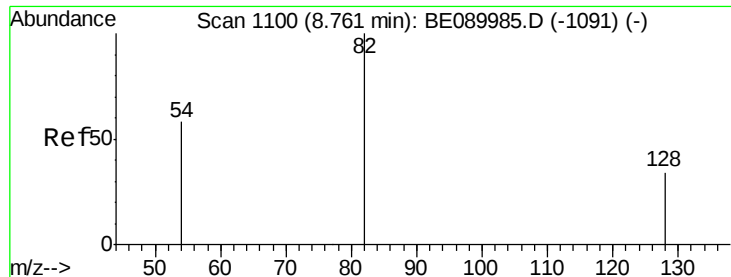
54 12.1 8.2 12.4

68 8.5 5.8 8.8



Abundance Ion 136.00 (135.70 to 136.70): BE0
Ion 137.00 (136.70 to 137.70): BE0
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 2.07 ng

RT: 8.76 min Scan# 1099

Delta R.T. -0.00 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

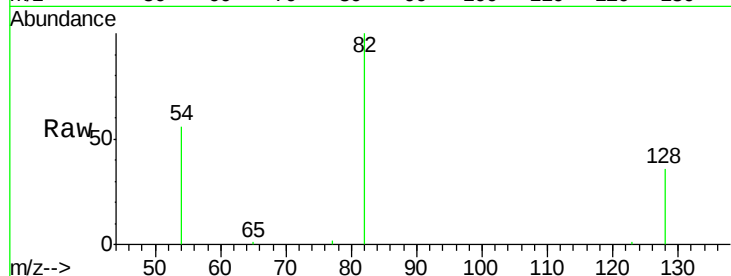
Tgt Ion: 82 Resp: 10547

Ion Ratio Lower Upper

82 100

128 35.9 28.0 42.0

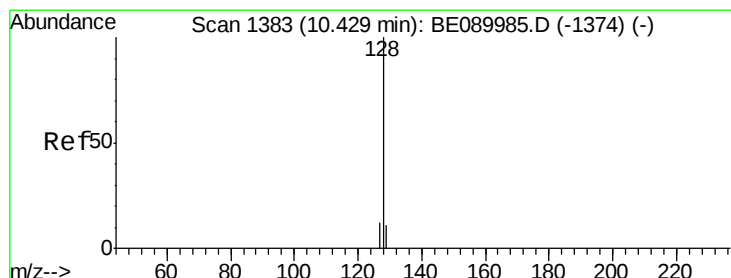
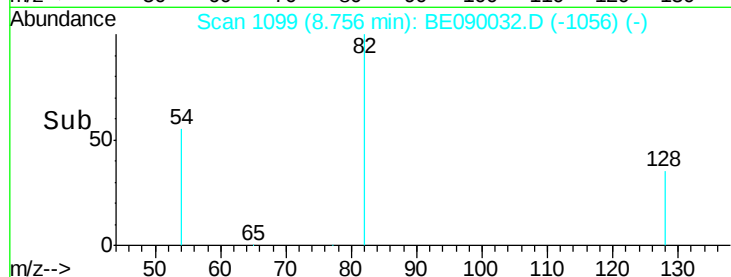
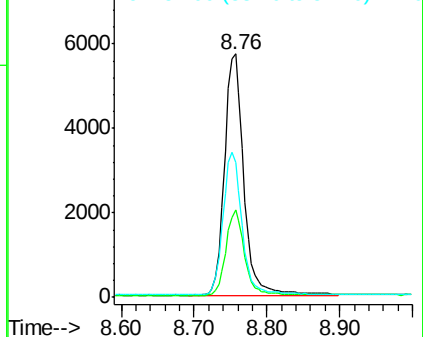
54 55.6 47.6 71.4



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



#9

Naphthalene

Concen: 0.14 ng

RT: 10.42 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

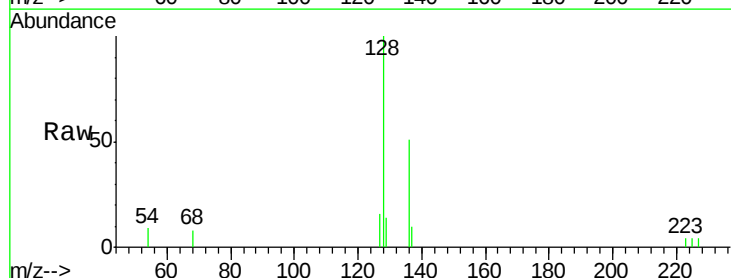
Tgt Ion: 128 Resp: 2094

Ion Ratio Lower Upper

128 100

129 14.0 9.3 13.9#

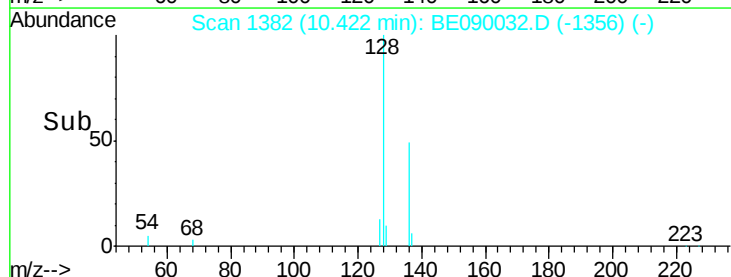
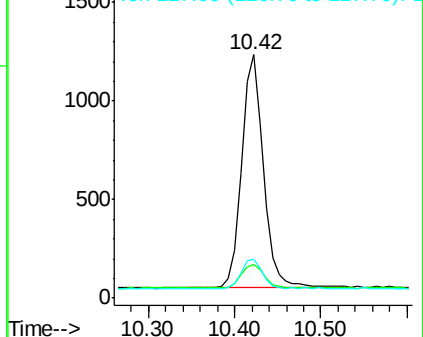
127 16.1 10.2 15.4#

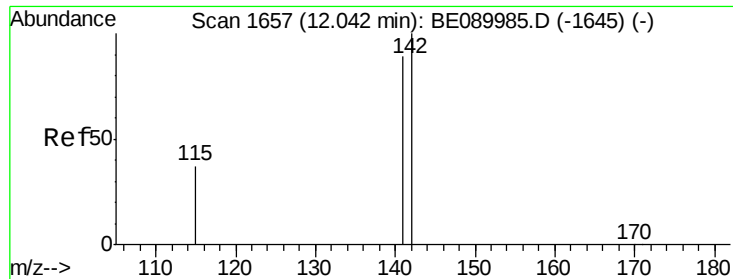


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

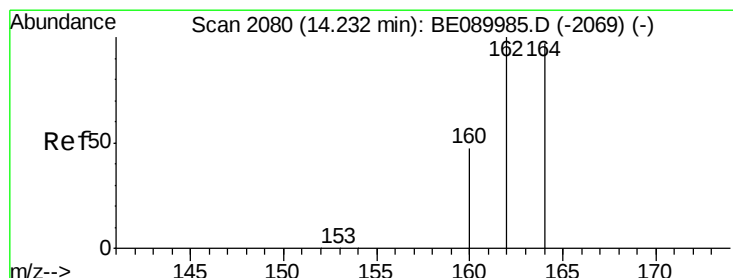
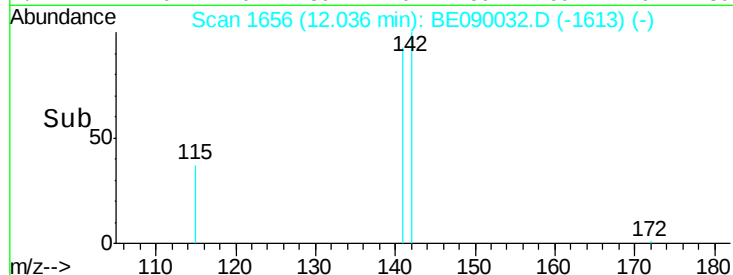
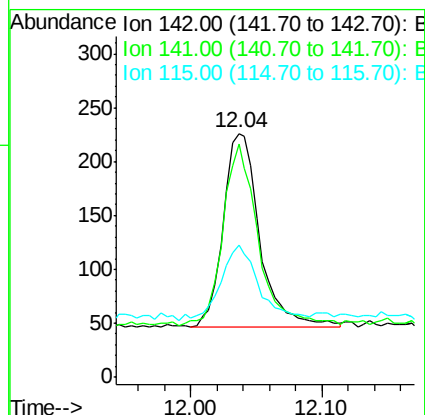
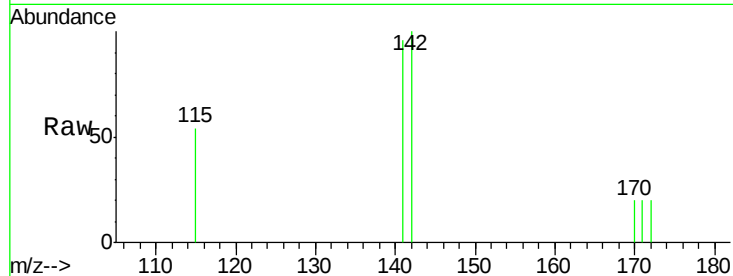




#11
2-Methylnaphthalene
Concen: 0.04 ng
RT: 12.04 min Scan# 1656
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

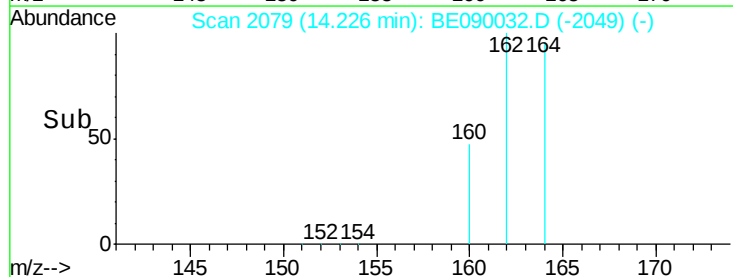
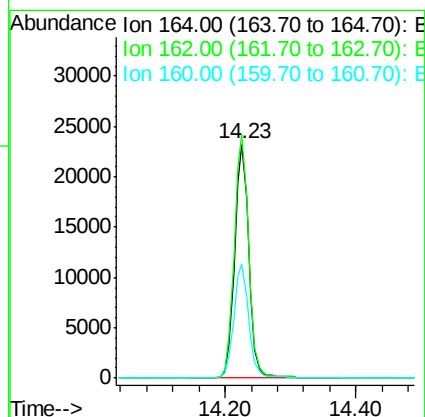
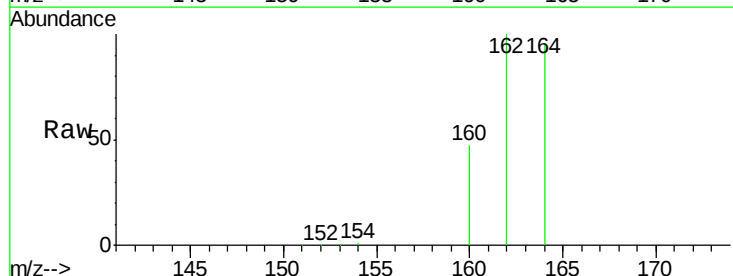
Instrument :
BNA_E
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X1SS0650006-150626-D

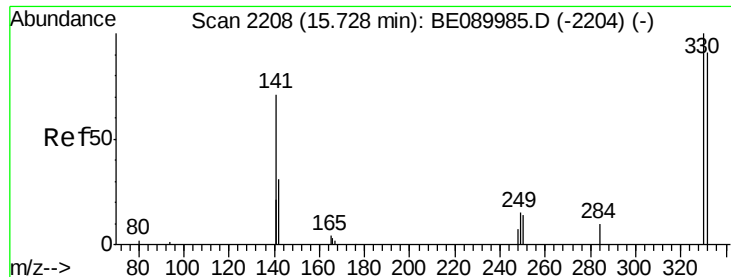
Tgt Ion:142 Resp: 342
Ion Ratio Lower Upper
142 100
141 95.6 71.3 106.9
115 54.4 30.4 45.6#



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.23 min Scan# 2079
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Tgt Ion:164 Resp: 34621
Ion Ratio Lower Upper
164 100
162 104.2 82.2 123.4
160 48.7 39.0 58.6

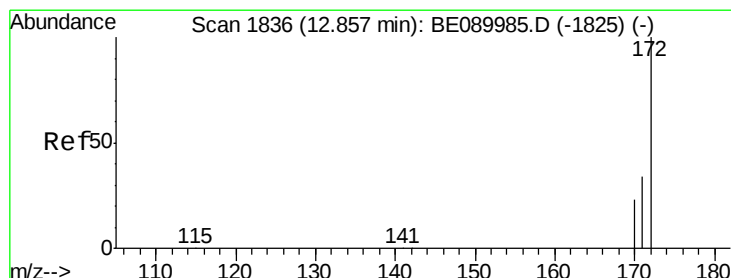
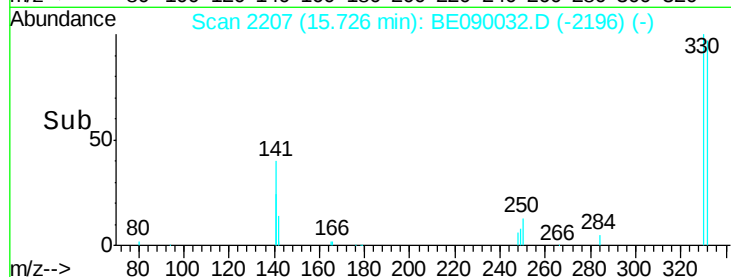
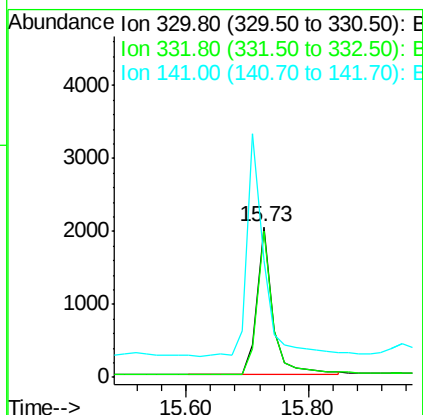
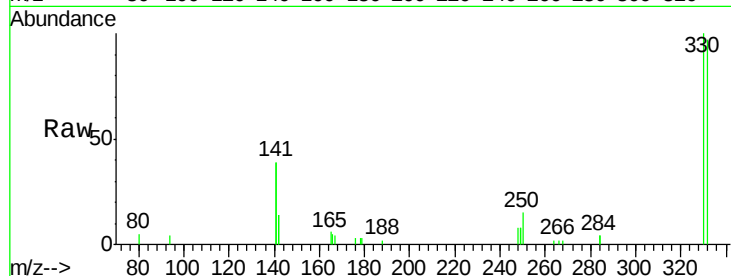




#13
 2,4,6-Tribromophenol
 Concen: 3.51 ng
 RT: 15.73 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

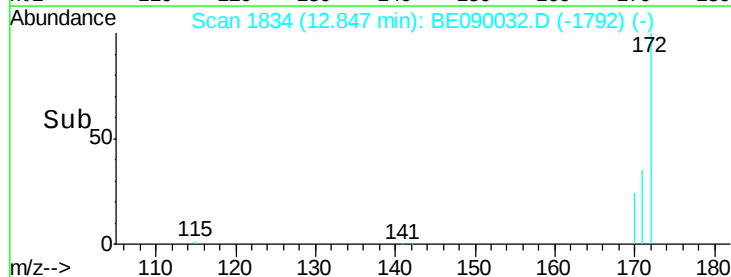
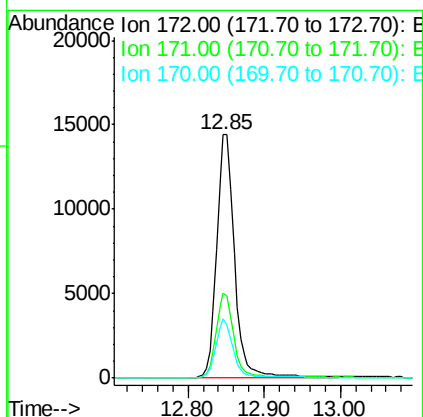
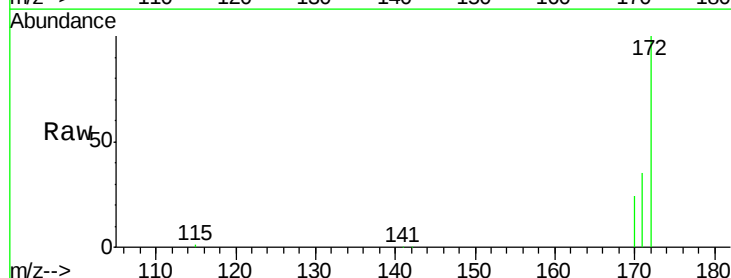
Instrument :
 BNA_E
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 X1SS0650006-150626-D

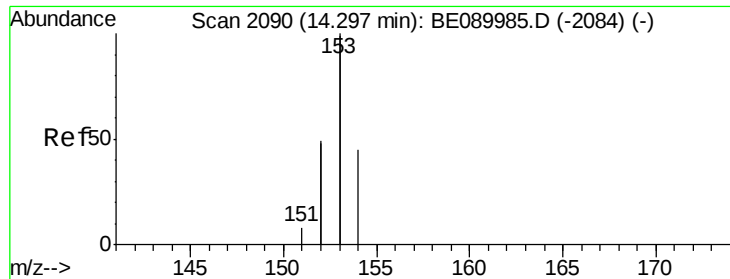
Tgt Ion:330 Resp: 3560
 Ion Ratio Lower Upper
 330 100
 332 97.8 76.4 114.6
 141 166.2 130.3 195.5



#14
 2-Fluorobiphenyl
 Concen: 2.23 ng
 RT: 12.85 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

Tgt Ion:172 Resp: 23201
 Ion Ratio Lower Upper
 172 100
 171 35.0 27.8 41.6
 170 24.1 18.3 27.5





#16

Acenaphthene

Concen: 0.16 ng

RT: 14.28 min Scan# 2088

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

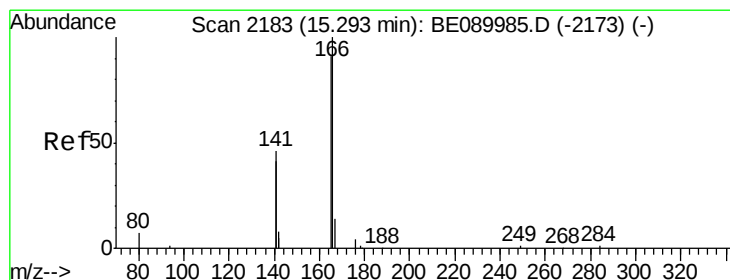
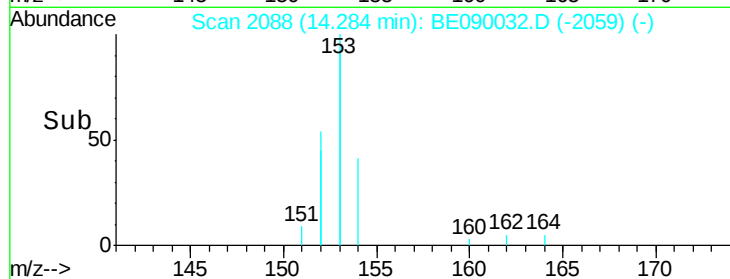
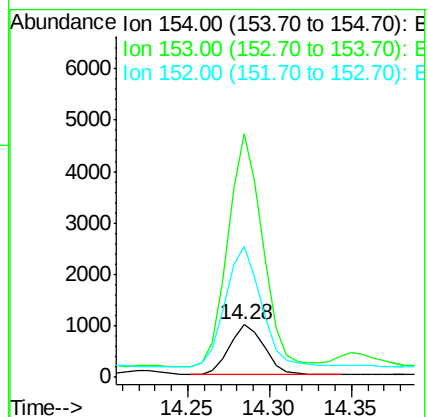
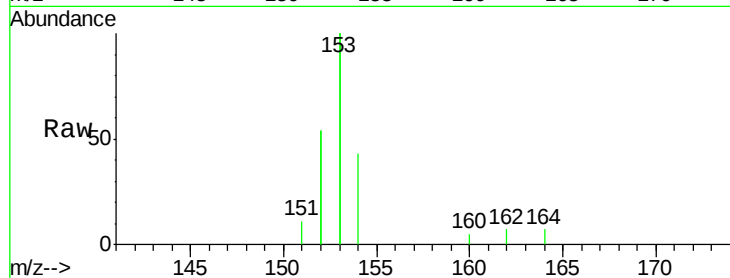
Tgt Ion:154 Resp: 1426

Ion Ratio Lower Upper

154 100

153 463.3 358.6 538.0

152 254.6 189.6 284.4



#17

Fluorene

Concen: 0.07 ng

RT: 15.27 min Scan# 2181

Delta R.T. -0.02 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

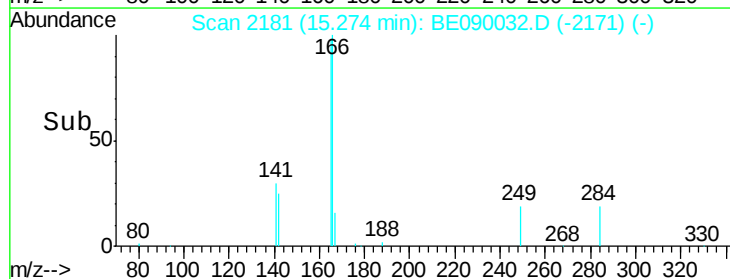
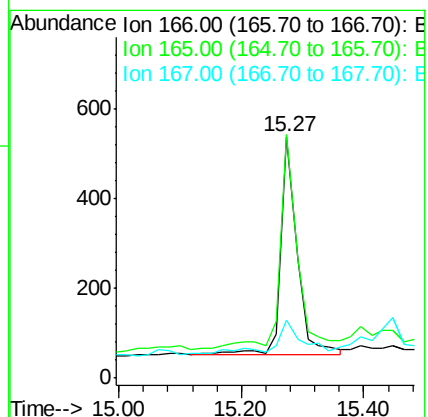
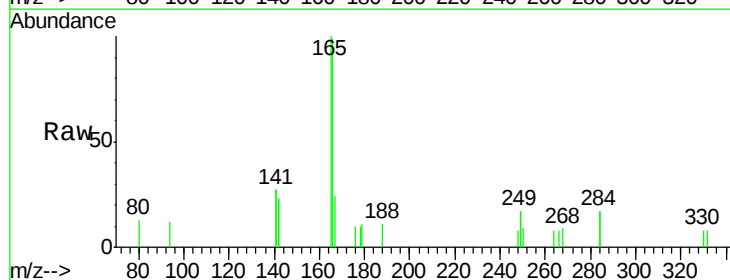
Tgt Ion:166 Resp: 886

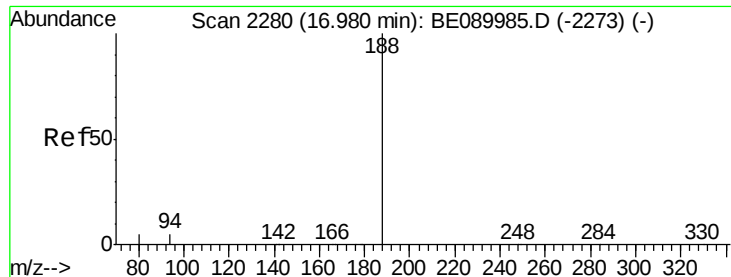
Ion Ratio Lower Upper

166 100

165 105.6 79.0 118.6

167 19.2 11.8 17.8#

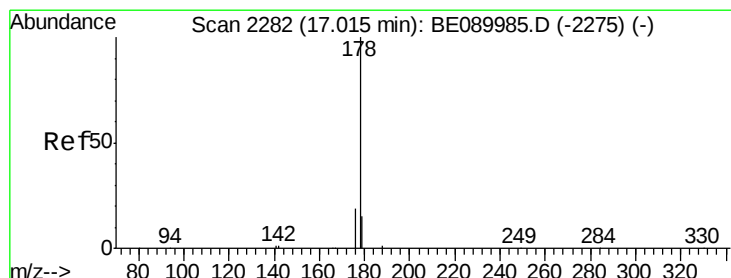
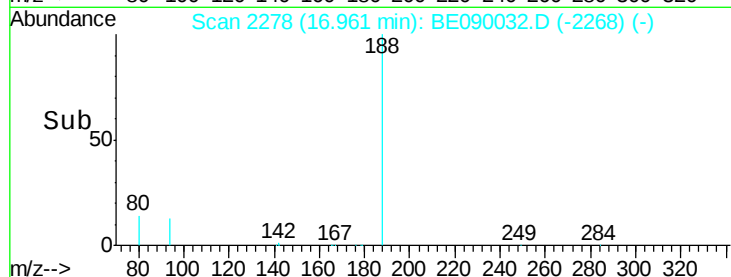
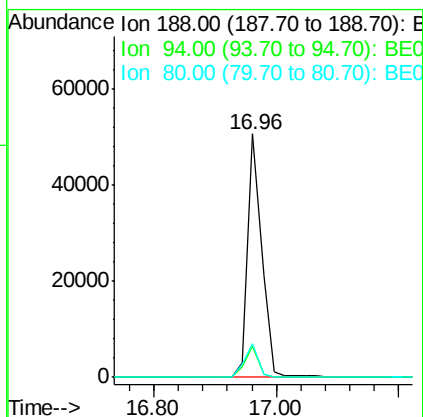
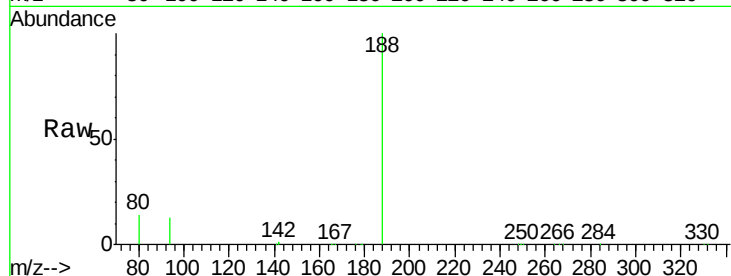




#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.96 min Scan# 2278
Delta R.T. -0.02 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

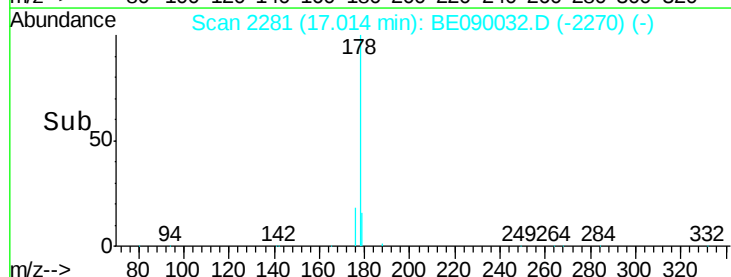
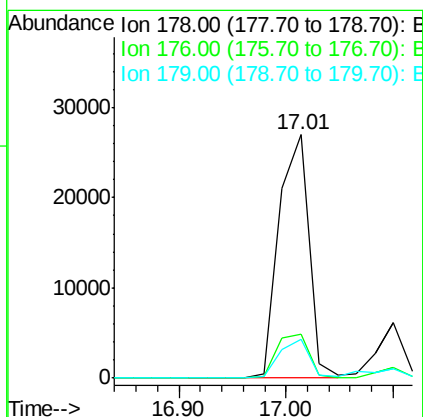
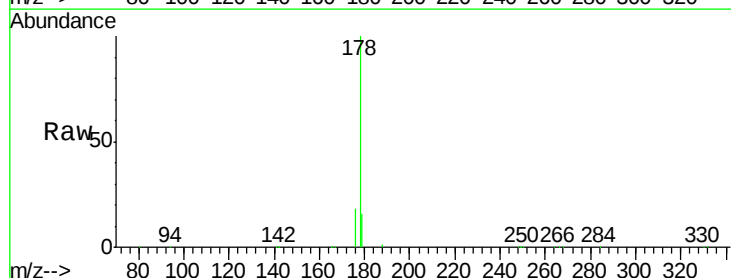
Instrument :
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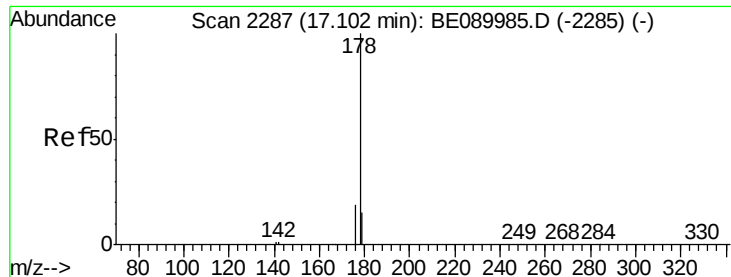
Tgt Ion:188 Resp: 80425
Ion Ratio Lower Upper
188 100
94 12.7 4.1 6.1#
80 13.9 4.2 6.2#



#22
Phenanthrene
Concen: 2.55 ng
RT: 17.01 min Scan# 2281
Delta R.T. -0.00 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Tgt Ion:178 Resp: 52474
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.6 12.4 18.6





#23

Anthracene

Concen: 0.54 ng m

RT: 17.10 min Scan# 2286

Delta R.T. -0.00 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

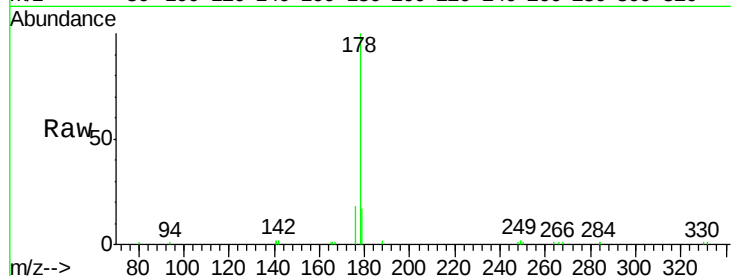
Tgt Ion:178 Resp: 10116

Ion Ratio Lower Upper

178 100

176 99.2 14.7 22.1#

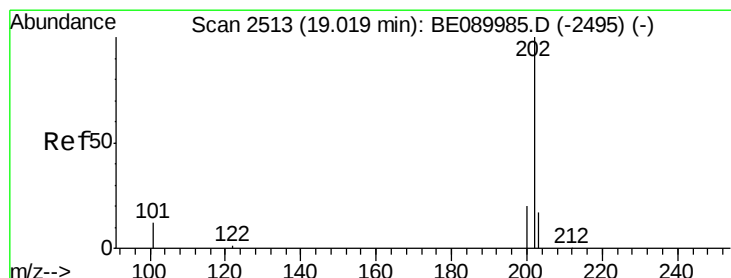
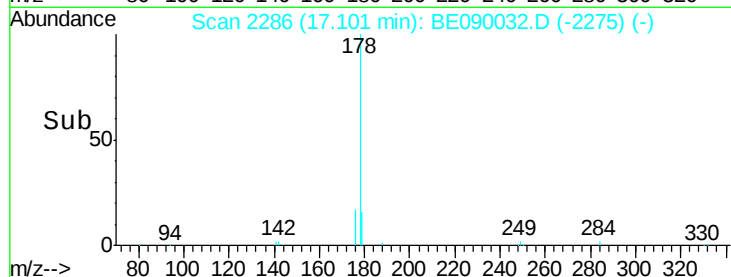
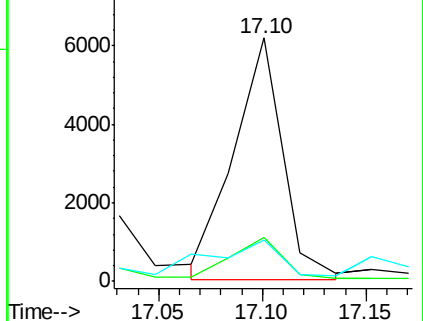
179 80.9 12.1 18.1#



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



#24

Fluoranthene

Concen: 7.34 ng

RT: 19.01 min Scan# 2510

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

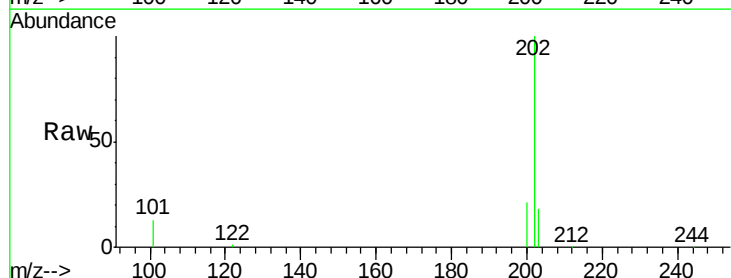
Tgt Ion:202 Resp: 168817

Ion Ratio Lower Upper

202 100

101 13.5 10.6 15.8

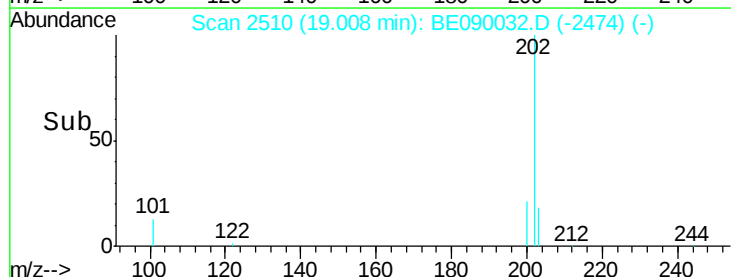
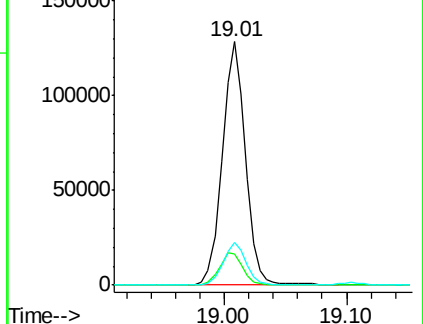
203 17.4 13.8 20.6

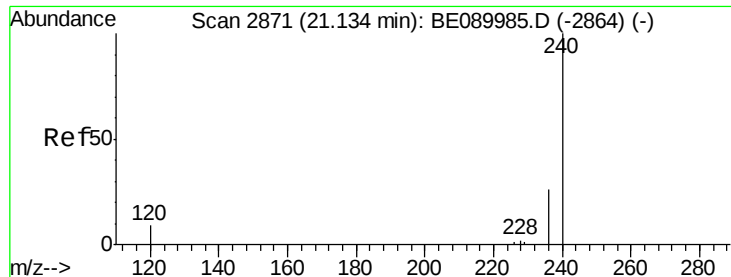


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.12 min Scan# 2868

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

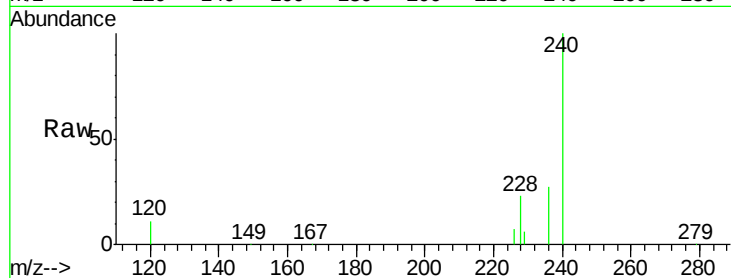
Tgt Ion:240 Resp: 103552

Ion Ratio Lower Upper

240 100

120 11.4 6.9 10.3#

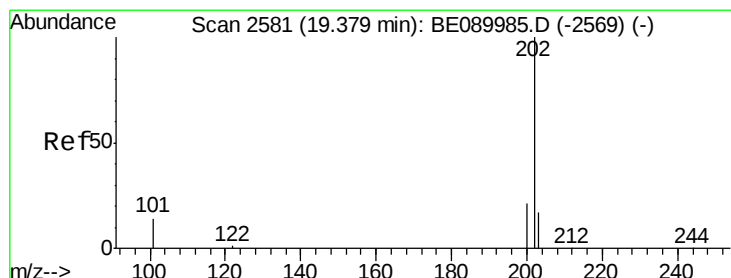
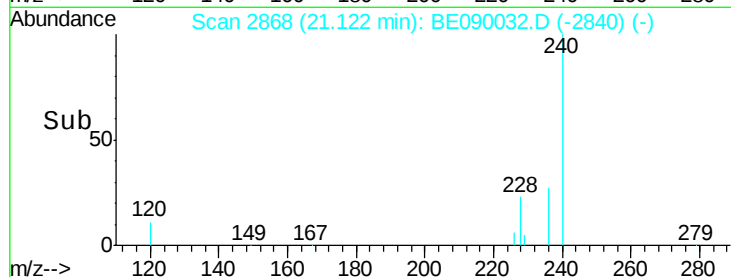
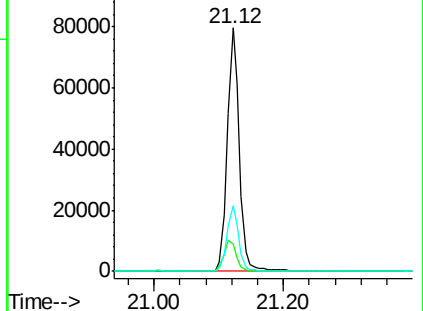
236 26.9 20.8 31.2



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



#26

Pyrene

Concen: 6.45 ng

RT: 19.37 min Scan# 2578

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

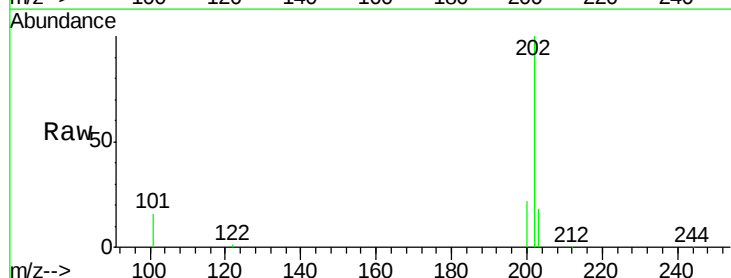
Tgt Ion:202 Resp: 159253

Ion Ratio Lower Upper

202 100

200 21.4 16.8 25.2

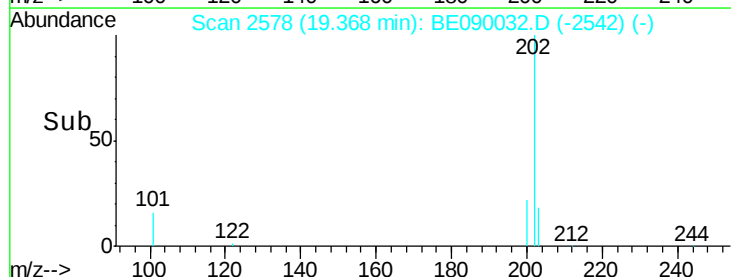
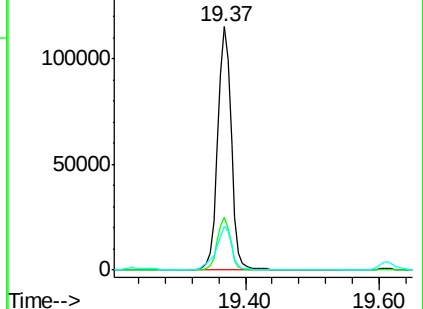
203 20.5 13.9 20.9

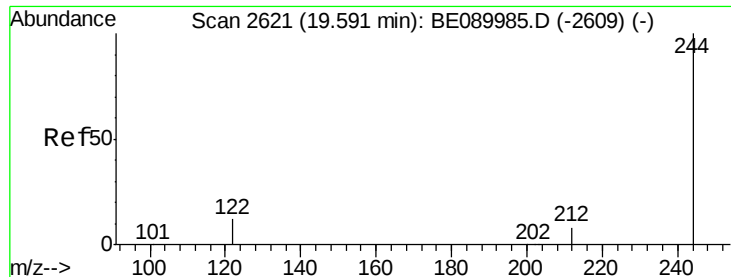


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

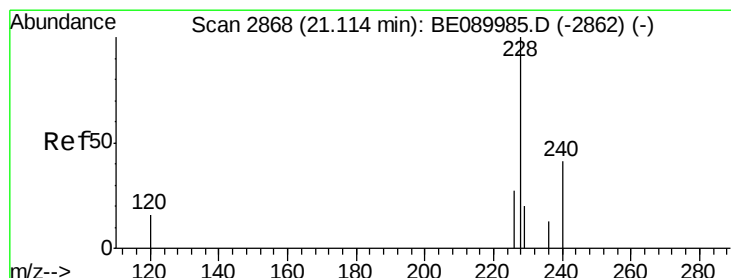
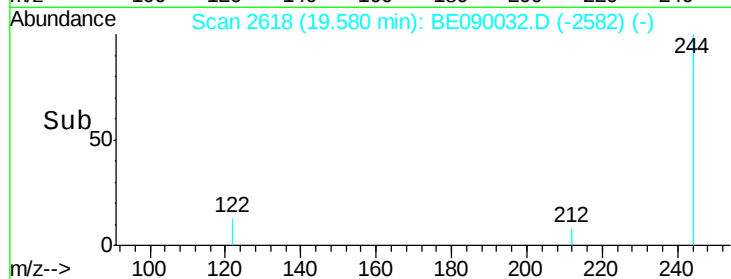
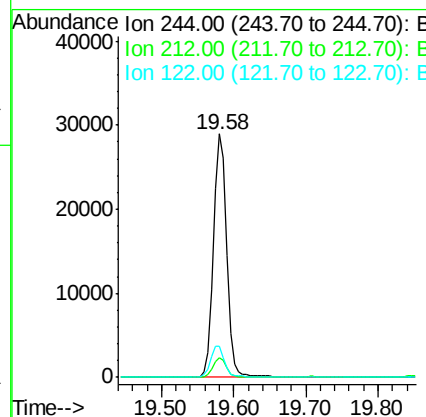
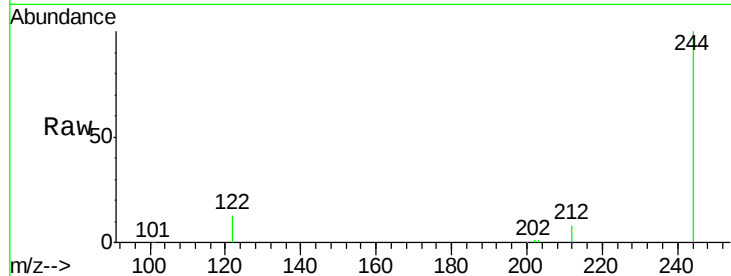




#27
 Terphenyl-d14
 Concen: 2.12 ng
 RT: 19.58 min Scan# 2618
 Delta R.T. -0.01 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

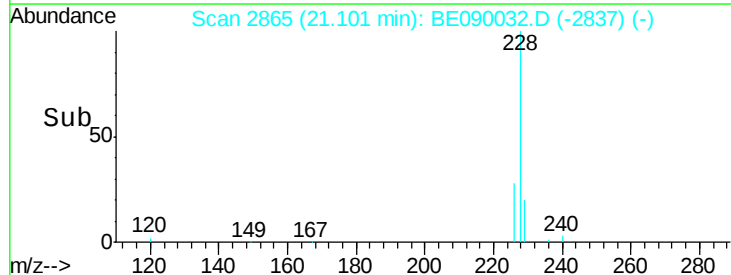
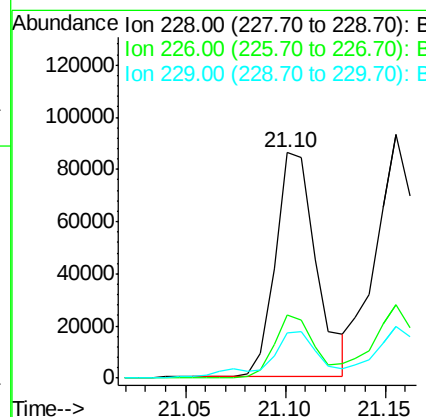
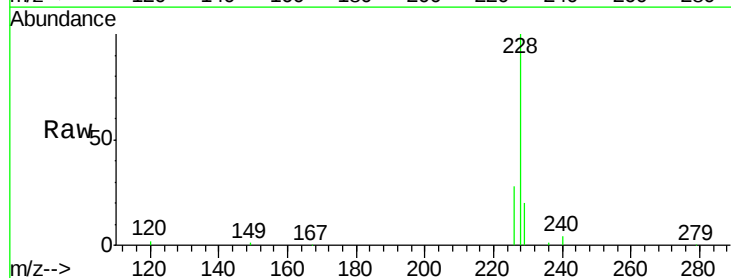
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626-D

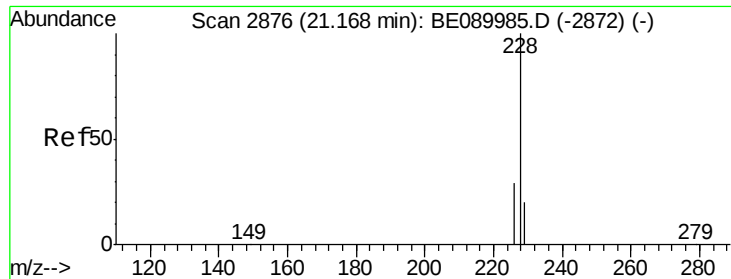
Tgt Ion:244 Resp: 36626
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.6 9.8
 122 13.0 9.8 14.8



#28
 Benzo(a)anthracene
 Concen: 4.75 ng
 RT: 21.10 min Scan# 2865
 Delta R.T. -0.01 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

Tgt Ion:228 Resp: 122798
 Ion Ratio Lower Upper
 228 100
 226 28.0 21.8 32.6
 229 20.2 15.8 23.6





#29

Chrysene

Concen: 4.96 ng

RT: 21.16 min Scan# 2873

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

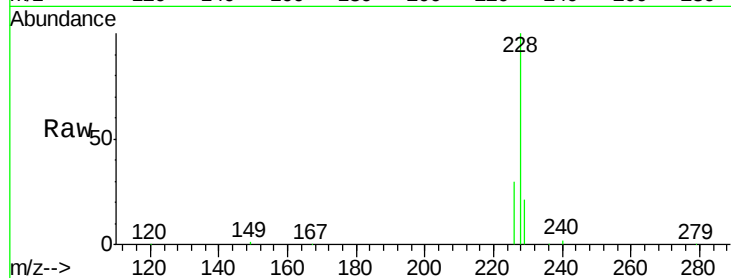
Tgt Ion:228 Resp: 133163

Ion Ratio Lower Upper

228 100

226 30.2 23.4 35.0

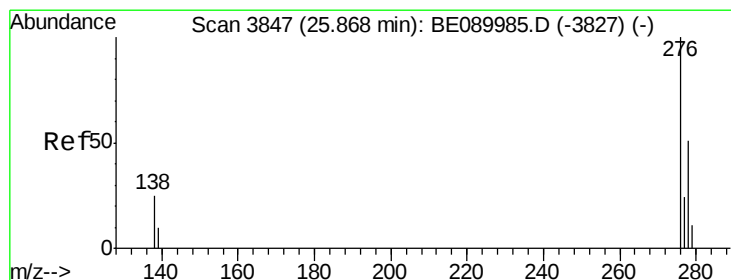
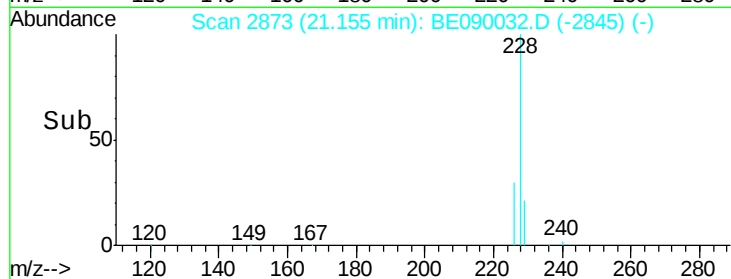
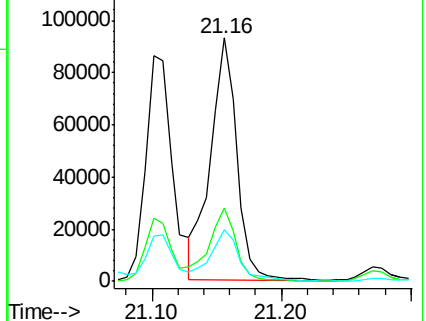
229 21.4 16.2 24.2



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



#31

Indeno(1,2,3-cd)pyrene

Concen: 3.26 ng

RT: 25.84 min Scan# 3839

Delta R.T. -0.03 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

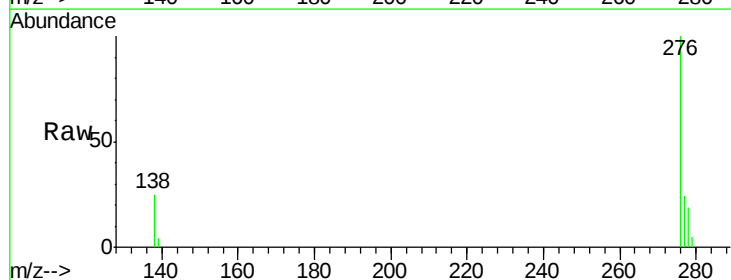
Tgt Ion:276 Resp: 83880

Ion Ratio Lower Upper

276 100

138 24.1 21.3 31.9

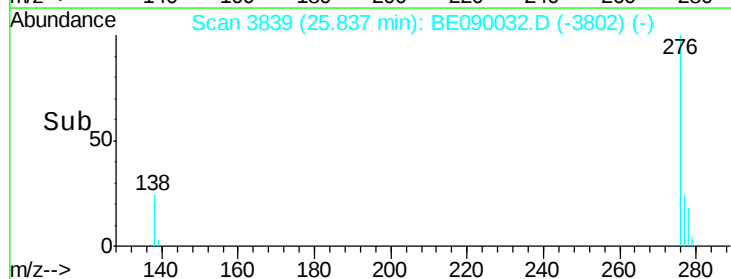
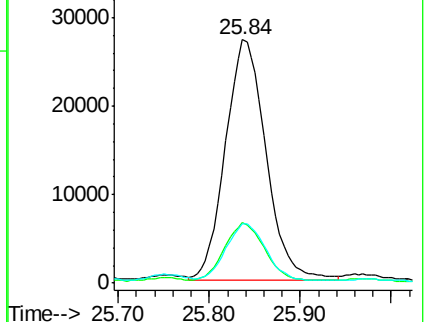
277 23.3 19.7 29.5

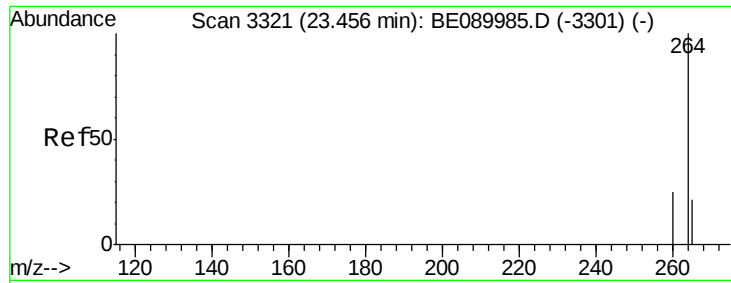


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

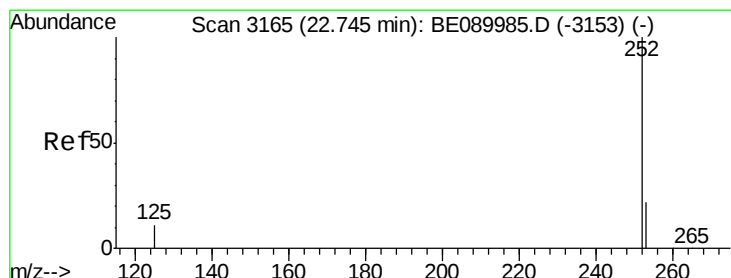
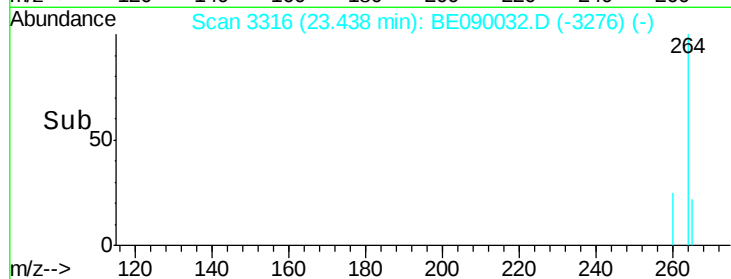
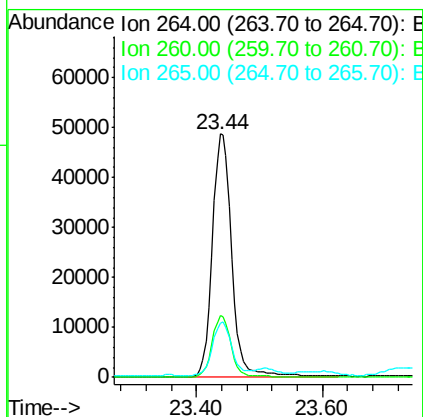
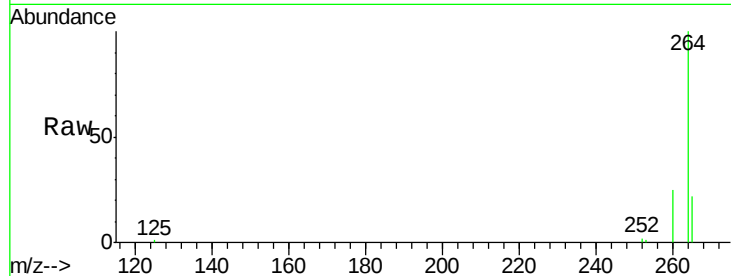




#32
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.44 min Scan# 3316
 Delta R.T. -0.02 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

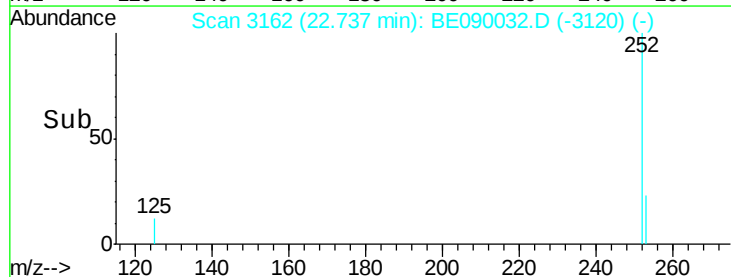
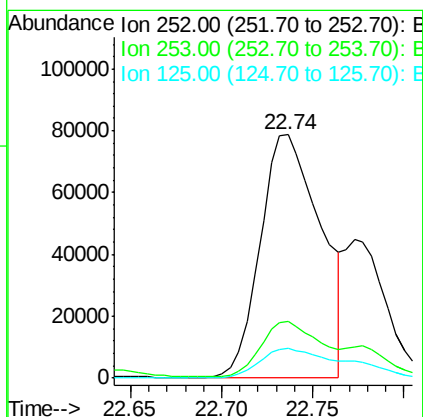
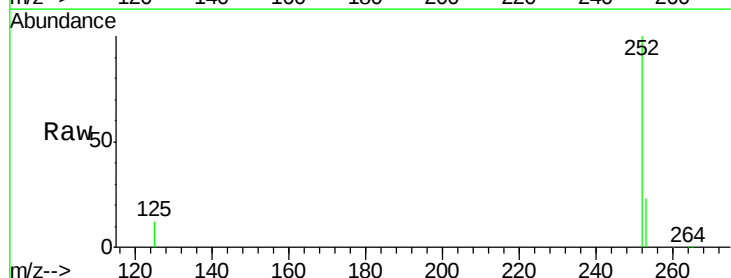
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626-D

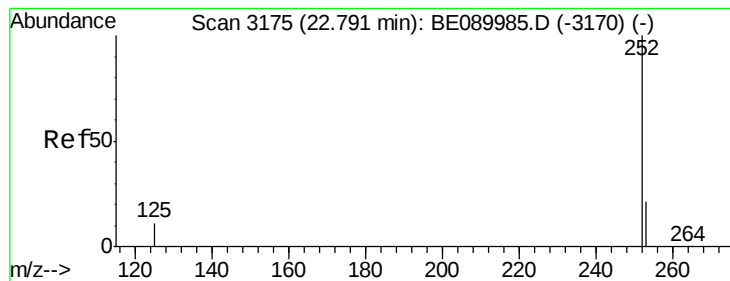
Tgt Ion: 264 Resp: 103327
 Ion Ratio Lower Upper
 264 100
 260 25.2 20.2 30.2
 265 22.3 17.1 25.7



#33
 Benzo(b)fluoranthene
 Concen: 7.99 ng
 RT: 22.74 min Scan# 3162
 Delta R.T. -0.01 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

Tgt Ion: 252 Resp: 182019
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.8 26.8
 125 12.1 9.0 13.4





#34

Benzo(k)fluoranthene

Concen: 2.87 ng m

RT: 22.77 min Scan# 3170

Delta R.T. -0.02 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

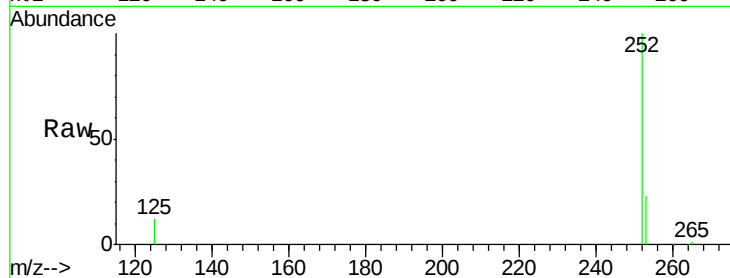
Tgt Ion:252 Resp: 73086

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

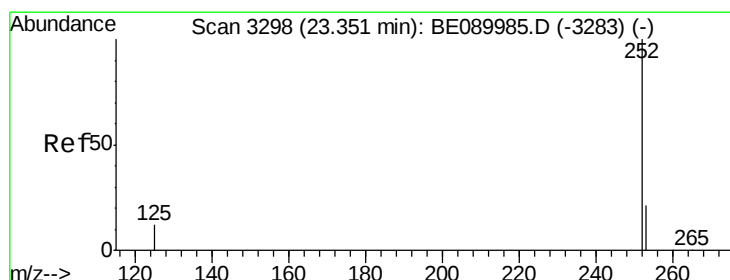
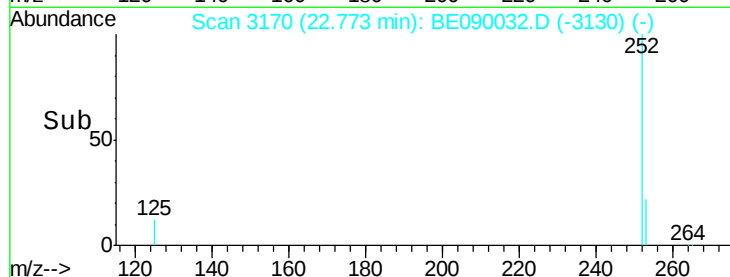
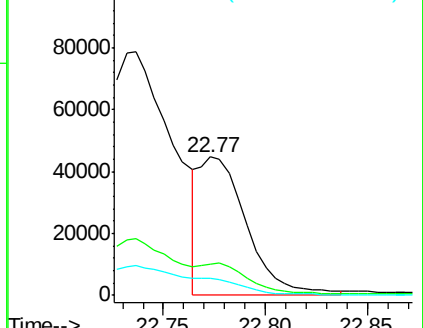
125 12.1 9.5 14.3



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



#35

Benzo(a)pyrene

Concen: 5.92 ng

RT: 23.33 min Scan# 3293

Delta R.T. -0.02 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

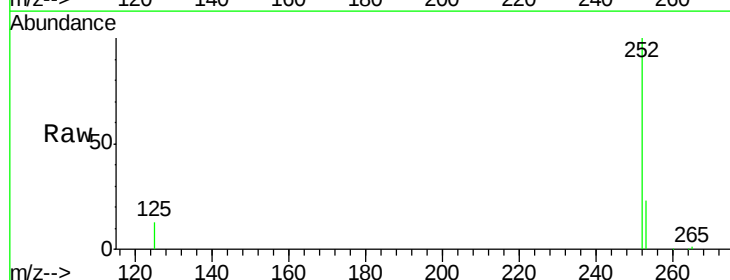
Tgt Ion:252 Resp: 124544

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.2

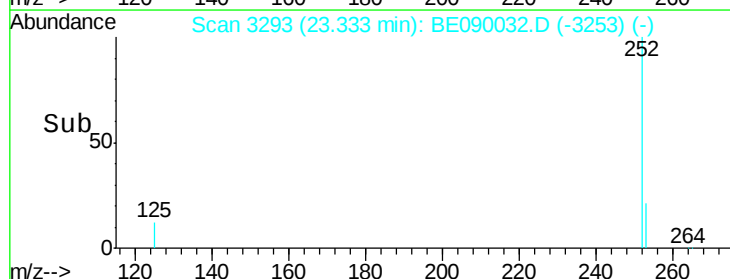
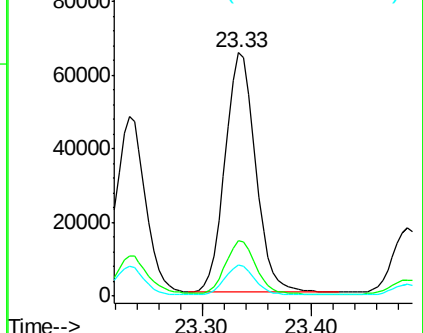
125 12.7 10.5 15.7

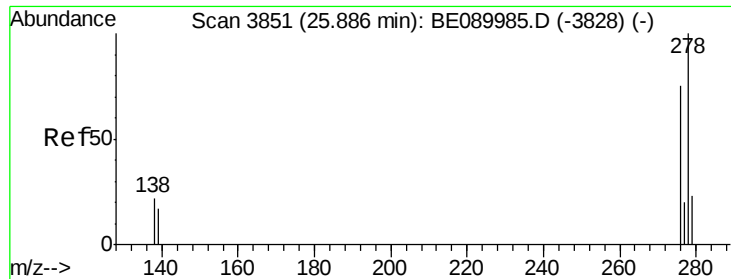


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

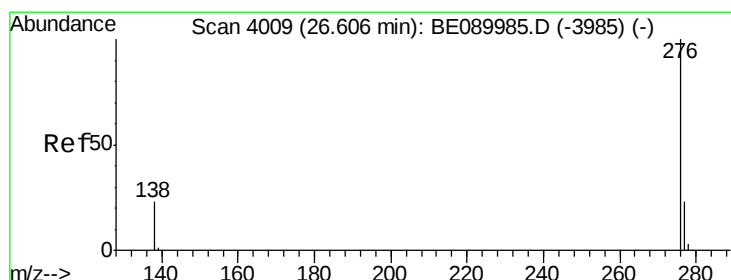
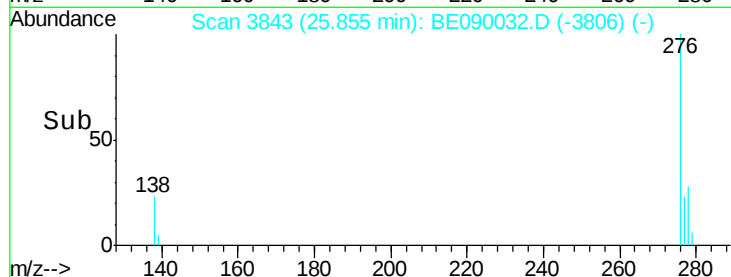
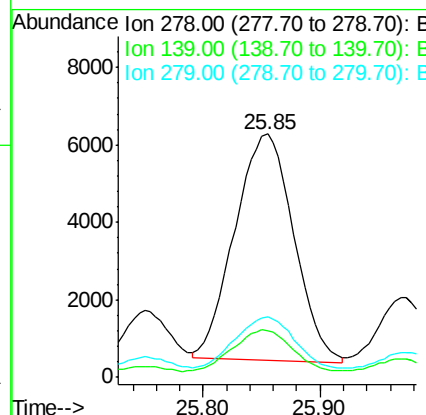
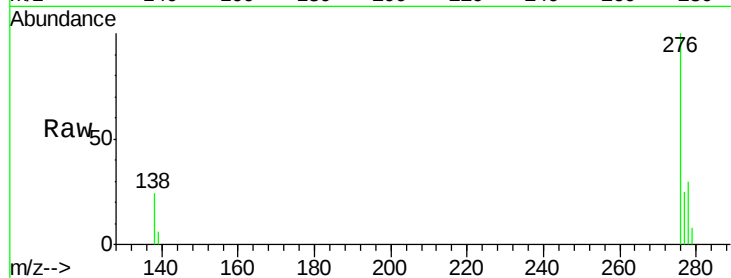




#36
Dibenzo(a,h)anthracene
Concen: 0.95 ng
RT: 25.85 min Scan# 3843
Delta R.T. -0.03 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626-D

Tgt Ion: 278 Resp: 20425
Ion Ratio Lower Upper
278 100
139 19.3 14.4 21.6
279 25.0 19.0 28.6



#37
Benzo(g,h,i)perylene
Concen: 3.93 ng
RT: 26.58 min Scan# 4002
Delta R.T. -0.03 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Tgt Ion: 276 Resp: 86034
Ion Ratio Lower Upper
276 100
277 24.0 18.8 28.2
138 25.0 18.6 27.8

