

Data Path : S:\HPCHEM1\BNA_E\Data\BE062915\
 Data File : BE090011.D
 Acq On : 30 Jun 2015 10:06
 Operator : TP/IZ
 Sample : G2811-01 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625-D

Quant Time: Jun 30 16:35:30 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	7.63	152	24418	5.00	ng	0.00
6) Naphthalene-d8	10.38	136	122469	5.00	ng	0.00
12) Acenaphthene-d10	14.23	164	75312	5.00	ng	0.00
18) Phenanthrene-d10	16.98	188	169396	5.00	ng	0.00
25) Chrysene-d12	21.14	240	174694	5.00	ng	0.00
32) Perylene-d12	23.47	264	184787	5.00	ng	0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.26	112	12152	2.17	ng	0.00
5) Phenol-d6	6.81	99	19955	2.54	ng	0.00
7) Nitrobenzene-d5	8.76	82	12461	1.28	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	6525	2.96	ng	0.00
14) 2-Fluorobiphenyl	12.86	172	27289	1.21	ng	0.00
27) Terphenyl-d14	19.59	244	40565	1.39	ng	0.00

Target Compounds

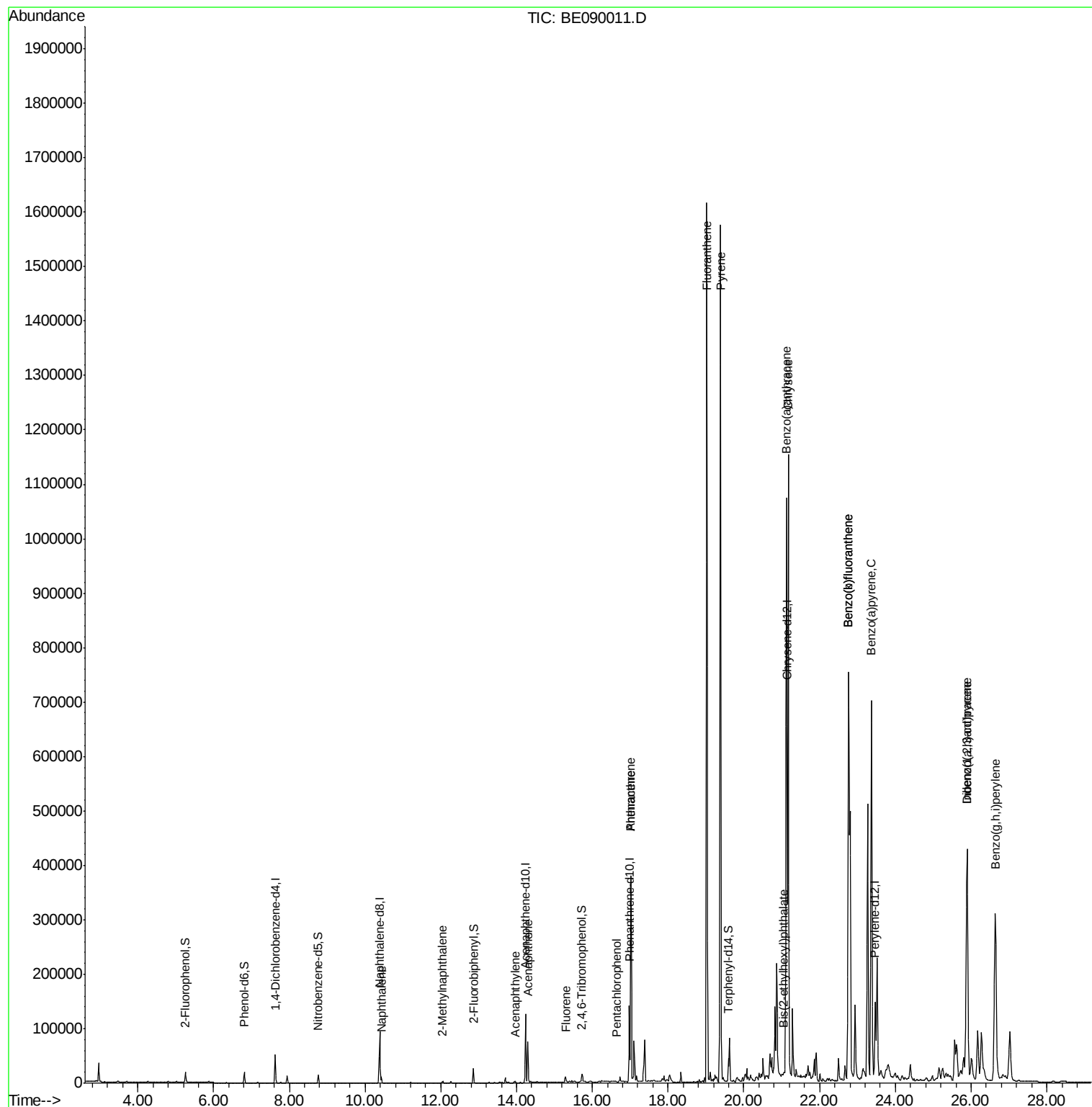
						Qvalue
9) Naphthalene	10.43	128	14448	0.52	ng	99
11) 2-Methylnaphthalene	12.05	142	2769	0.15	ng	99
15) Acenaphthylene	13.95	152	2880	0.02	ng	# 88
16) Acenaphthene	14.30	154	14227	0.73	ng	96
17) Fluorene	15.29	166	7219	0.27	ng	97
21) Pentachlorophenol	16.63	266	27	0.27	ng	# 61
22) Phenanthrene	17.01	178	442405	10.19	ng	99
23) Anthracene	17.01	178	442381	11.14	ng	97
24) Fluoranthene	19.02	202	1473304	30.39	ng	97
26) Pyrene	19.38	202	1397324	33.56	ng	# 92
28) Benzo(a)anthracene	21.12	228	1022512	23.44	ng	96
29) Chrysene	21.17	228	1056896	23.33	ng	95
30) Bis(2-ethylhexyl)phthalate	21.07	149	2096	0.40	ng	# 55
31) Indeno(1,2,3-cd)pyrene	25.90	276	733340	16.88	ng	96
33) Benzo(b)fluoranthene	22.76	252	1459694	35.81	ng	97
34) Benzo(k)fluoranthene	22.76	252	1459694	32.05	ng	97
35) Benzo(a)pyrene	23.37	252	1030541	27.38	ng	98
36) Dibenzo(a,h)anthracene	25.90	278	187418	4.85	ng	99
37) Benzo(g,h,i)perylene	26.65	276	732654	18.70	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: 7.63 min Scan# 855

Delta R.T. 0.00 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

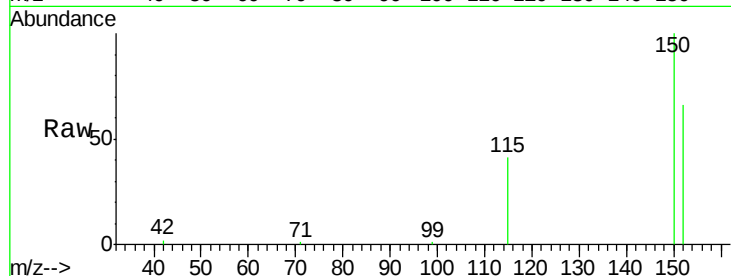
Tgt Ion:152 Resp: 24418

Ion Ratio Lower Upper

152 100

150 150.6 123.9 185.9

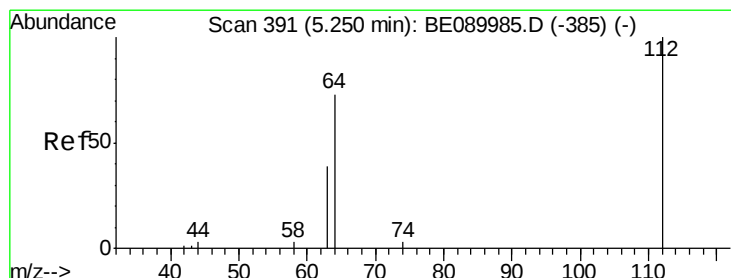
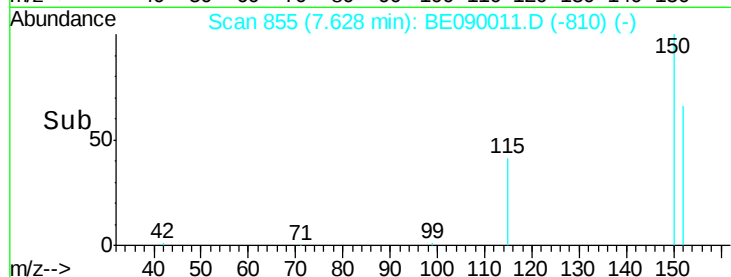
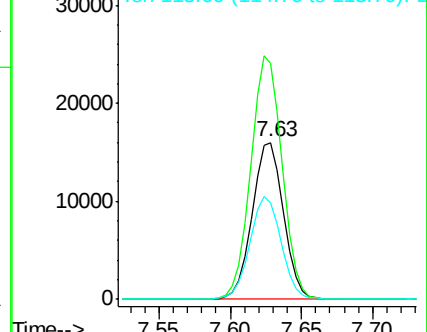
115 61.6 50.6 76.0



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



#4

2-Fluorophenol

Concen: 2.17 ng

RT: 5.26 min Scan# 392

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

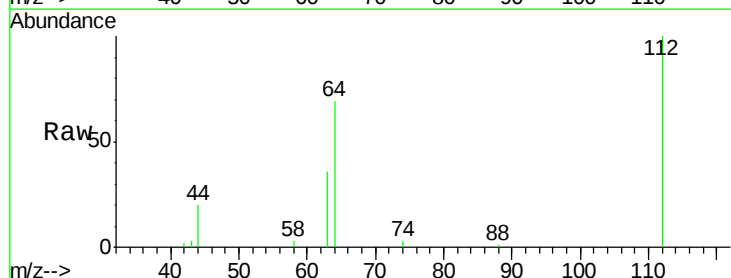
Tgt Ion:112 Resp: 12152

Ion Ratio Lower Upper

112 100

64 71.5 56.3 84.5

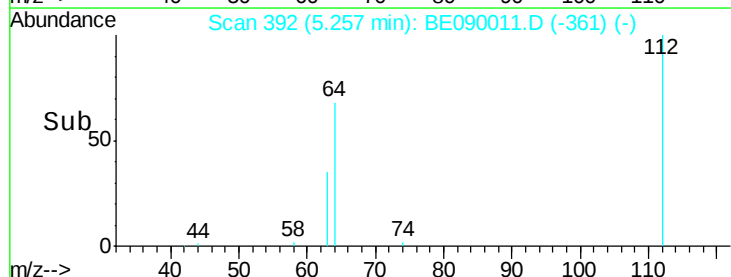
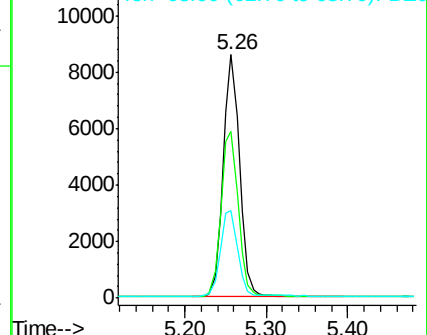
63 37.1 29.8 44.6

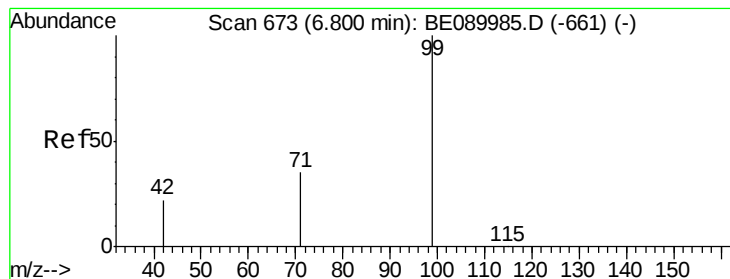


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 2.54 ng

RT: 6.81 min Scan# 675

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

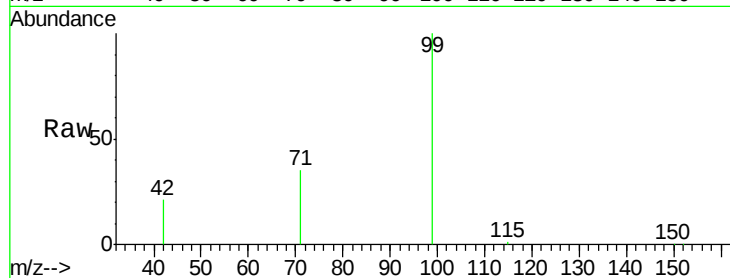
Tgt Ion: 99 Resp: 19955

Ion Ratio Lower Upper

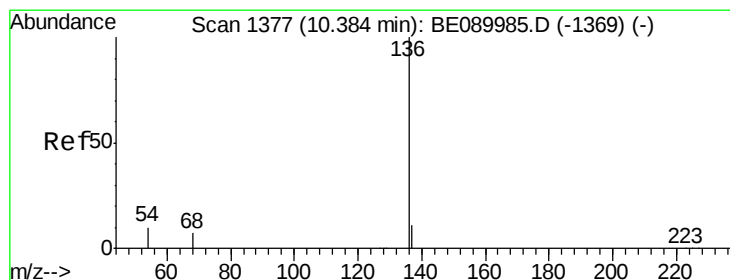
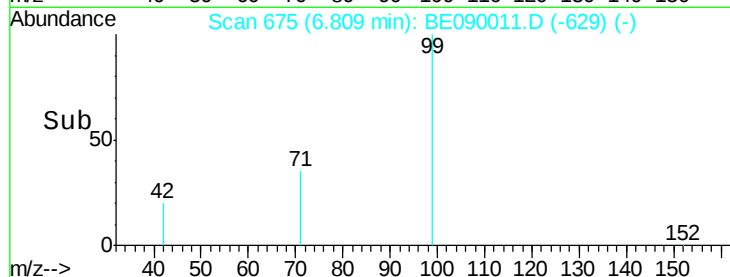
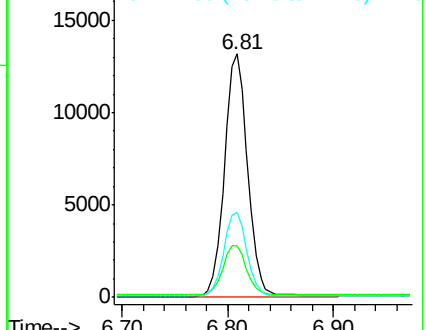
99 100

42 20.9 18.7 28.1

71 34.7 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: 10.38 min Scan# 1377

Delta R.T. 0.00 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Tgt Ion: 136 Resp: 122469

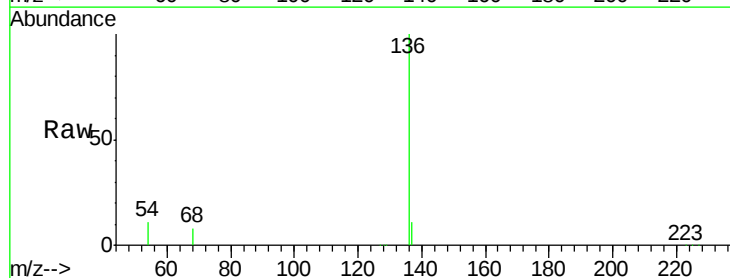
Ion Ratio Lower Upper

136 100

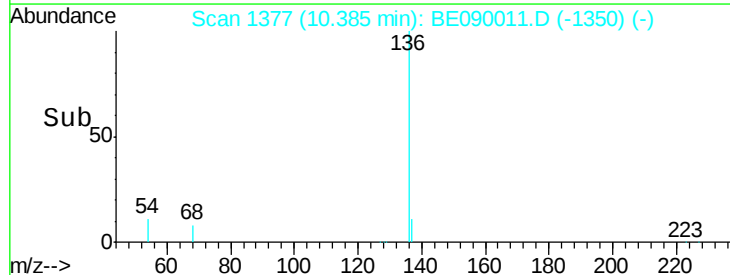
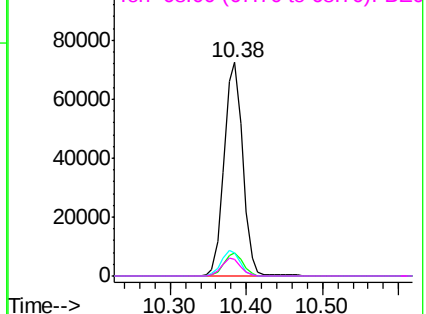
137 11.0 8.9 13.3

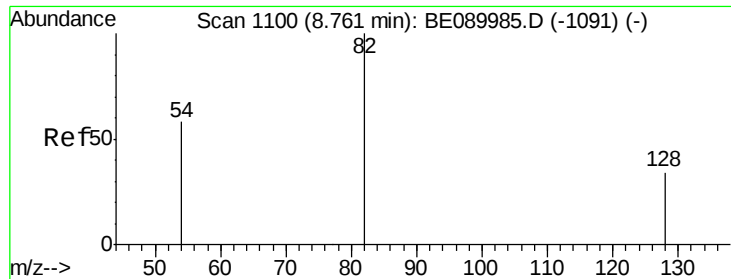
54 10.7 8.2 12.4

68 7.7 5.8 8.8



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
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 1.28 ng

RT: 8.76 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

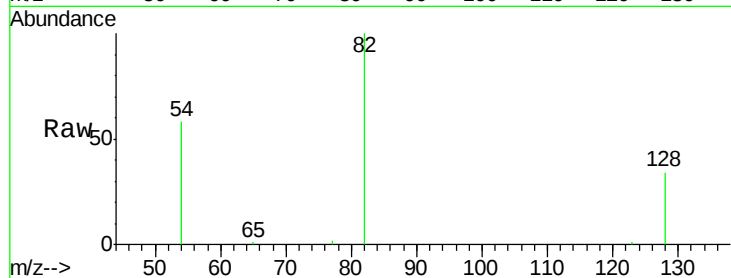
Tgt Ion: 82 Resp: 12461

Ion Ratio Lower Upper

82 100

128 34.4 28.0 42.0

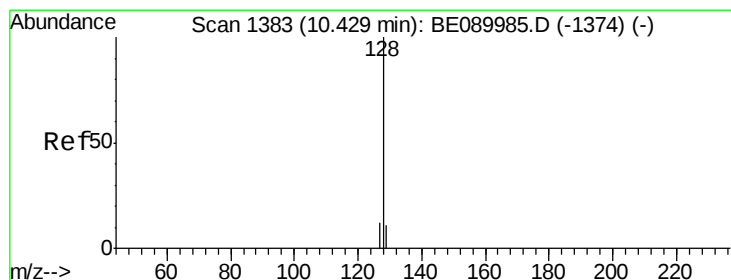
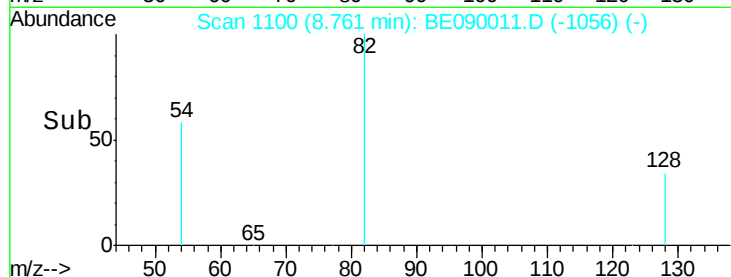
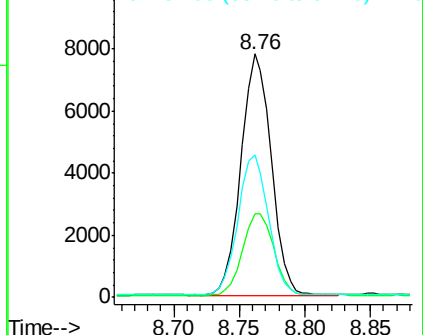
54 58.4 47.6 71.4



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: 0.52 ng

RT: 10.43 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

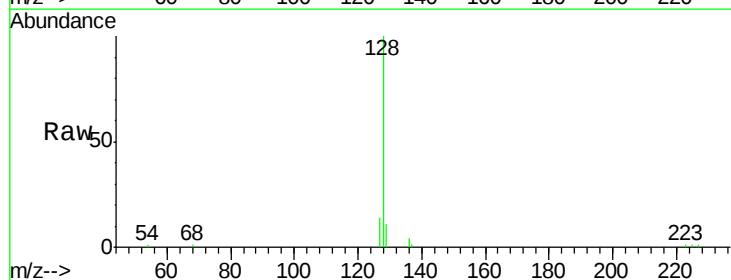
Tgt Ion: 128 Resp: 14448

Ion Ratio Lower Upper

128 100

129 11.4 9.3 13.9

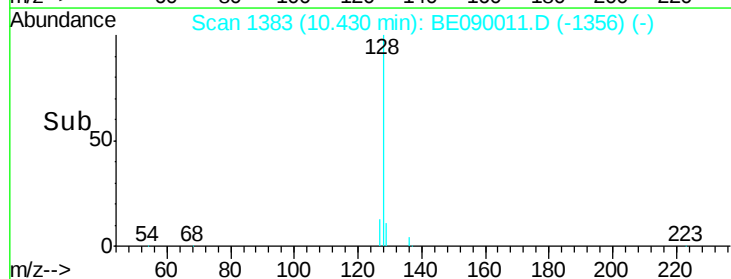
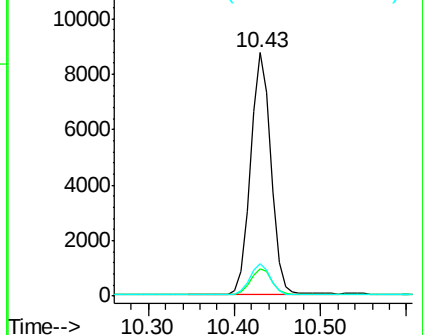
127 13.5 10.2 15.4

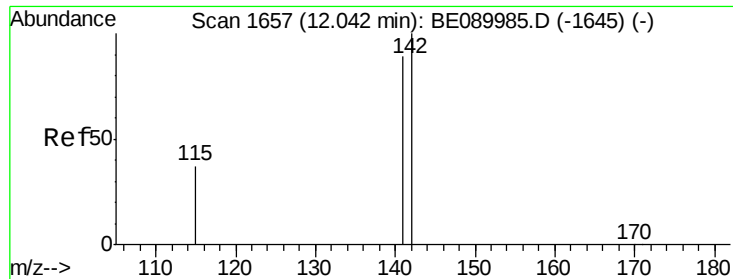


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

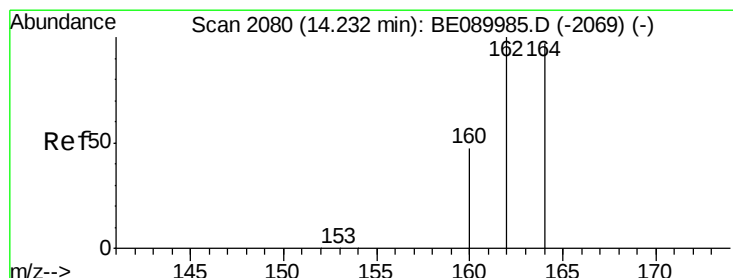
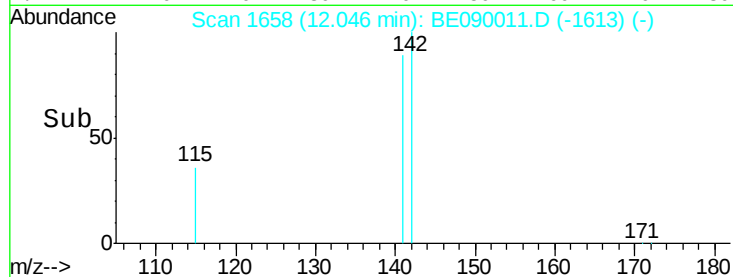
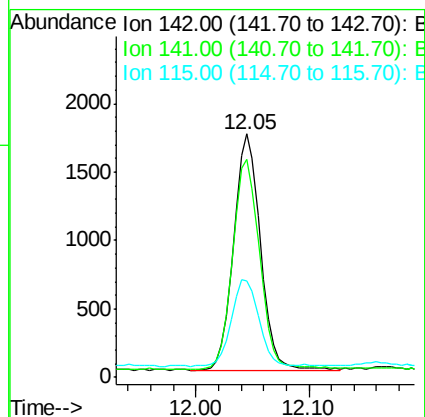
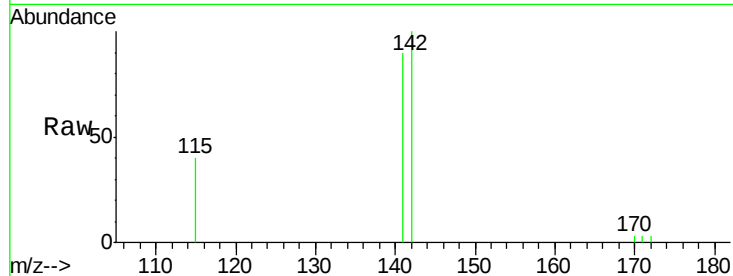




#11
2-Methylnaphthalene
Concen: 0.15 ng
RT: 12.05 min Scan# 1658
Delta R.T. 0.00 min
Lab File: BE090011.D
Acq: 30 Jun 2015 10:06

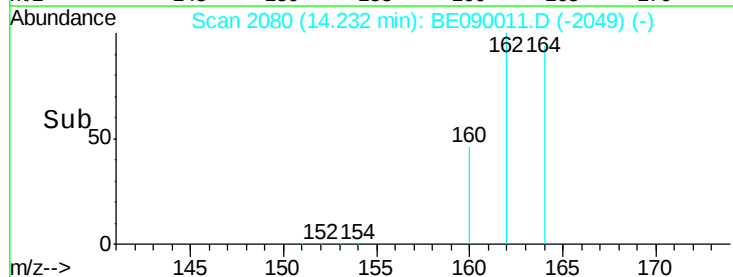
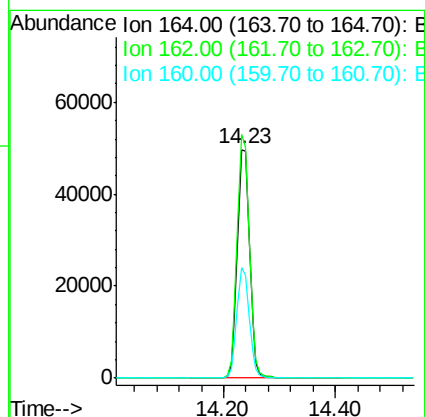
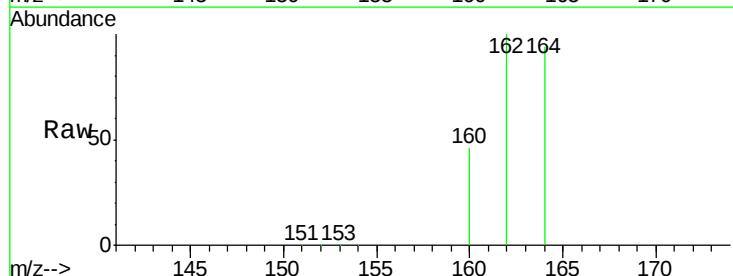
Instrument :
BNA_E
ClientSampleId :
X1SS0520006-150625-D

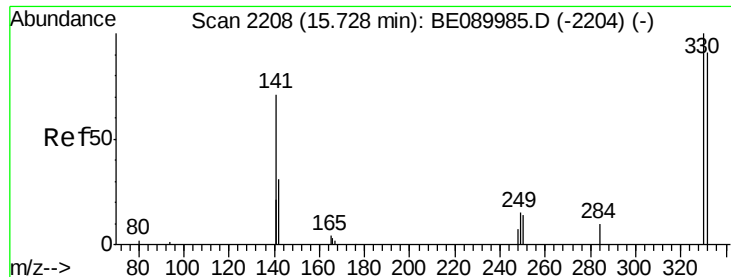
Tgt Ion:142 Resp: 2769
Ion Ratio Lower Upper
142 100
141 89.8 71.3 106.9
115 39.7 30.4 45.6



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.23 min Scan# 2080
Delta R.T. 0.00 min
Lab File: BE090011.D
Acq: 30 Jun 2015 10:06

Tgt Ion:164 Resp: 75312
Ion Ratio Lower Upper
164 100
162 106.5 82.2 123.4
160 48.6 39.0 58.6

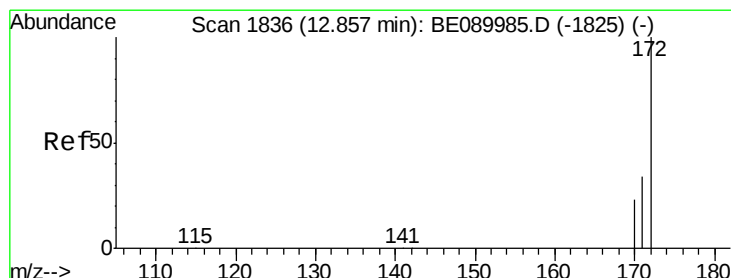
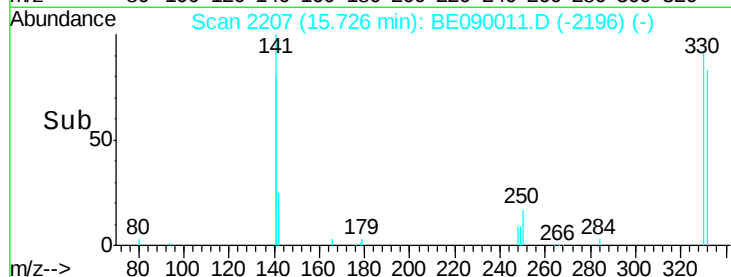
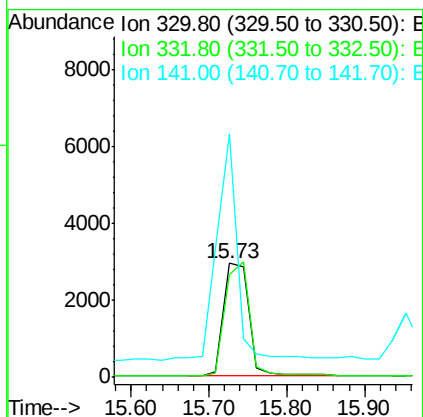
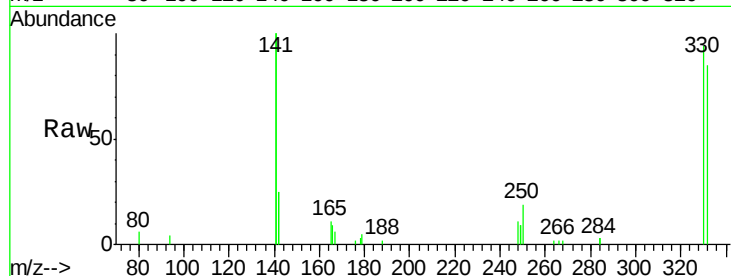




#13
 2,4,6-Tribromophenol
 Concen: 2.96 ng
 RT: 15.73 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE090011.D
 Acq: 30 Jun 2015 10:06

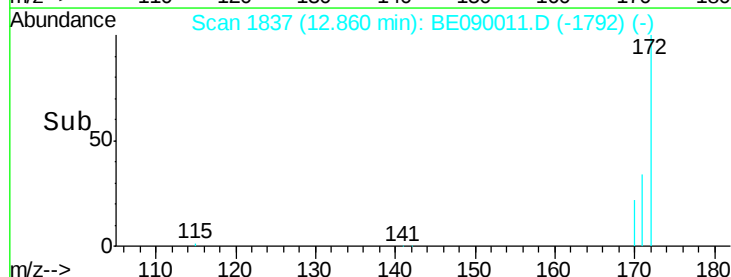
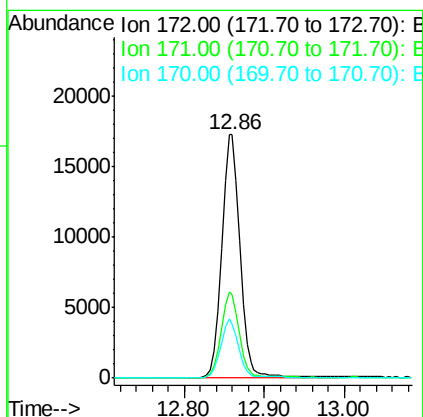
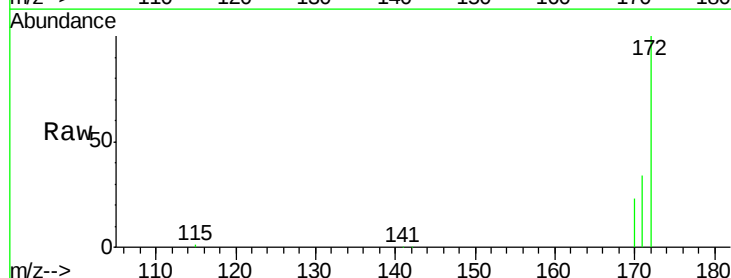
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625-D

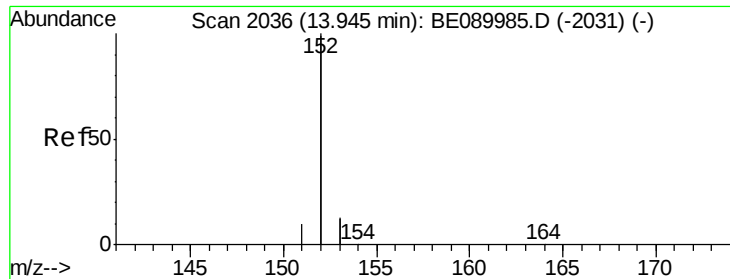
Tgt Ion: 330 Resp: 6525
 Ion Ratio Lower Upper
 330 100
 332 97.3 76.4 114.6
 141 163.9 130.3 195.5



#14
 2-Fluorobiphenyl
 Concen: 1.21 ng
 RT: 12.86 min Scan# 1837
 Delta R.T. 0.00 min
 Lab File: BE090011.D
 Acq: 30 Jun 2015 10:06

Tgt Ion: 172 Resp: 27289
 Ion Ratio Lower Upper
 172 100
 171 34.1 27.8 41.6
 170 22.5 18.3 27.5





#15

Acenaphthylene

Concen: 0.02 ng

RT: 13.95 min Scan# 2037

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

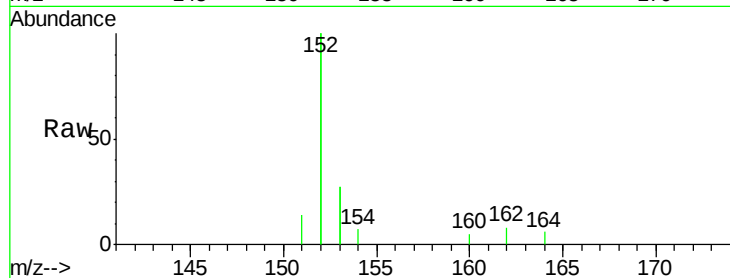
Tgt Ion:152 Resp: 2880

Ion Ratio Lower Upper

152 100

151 5.6 3.9 5.9

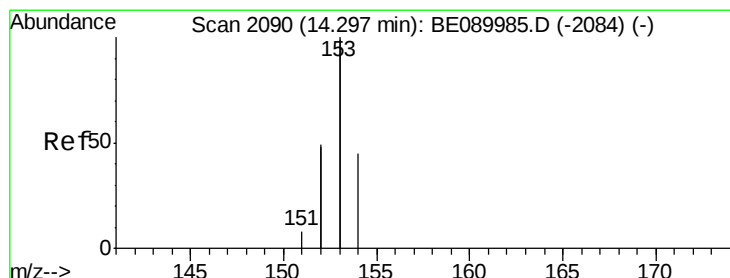
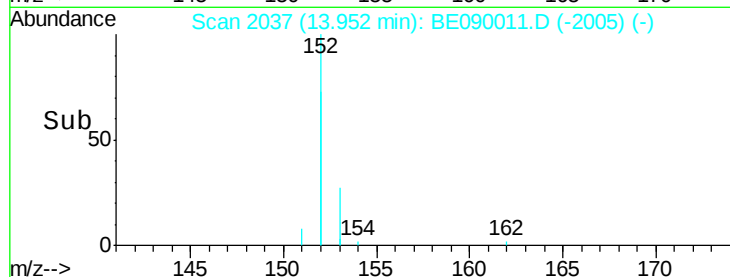
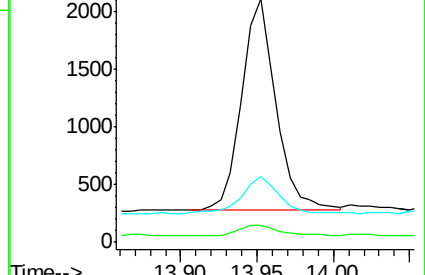
153 19.3 10.4 15.6#



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



#16

Acenaphthene

Concen: 0.73 ng

RT: 14.30 min Scan# 2090

Delta R.T. 0.00 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

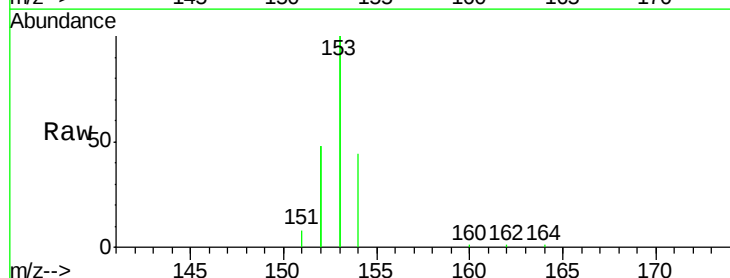
Tgt Ion:154 Resp: 14227

Ion Ratio Lower Upper

154 100

153 456.2 358.6 538.0

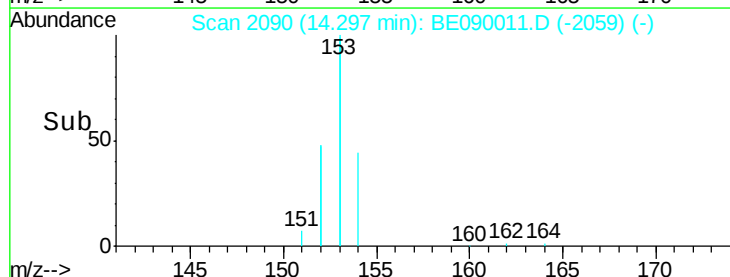
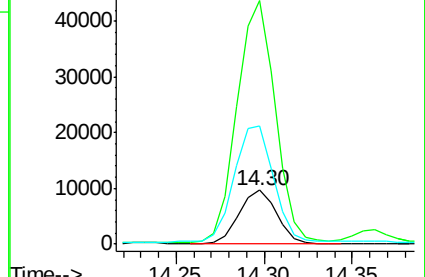
152 228.4 189.6 284.4

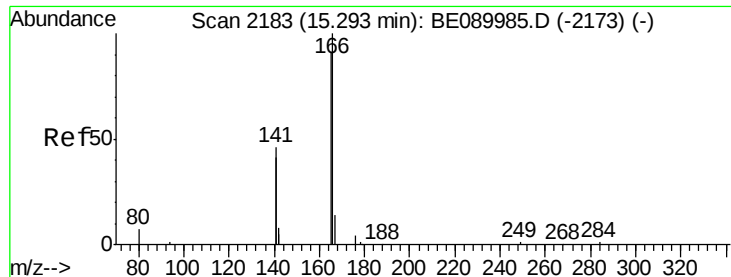


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

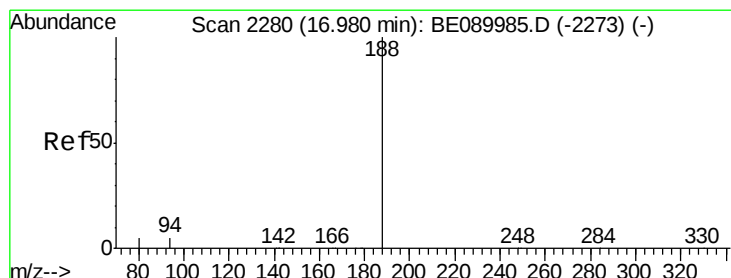
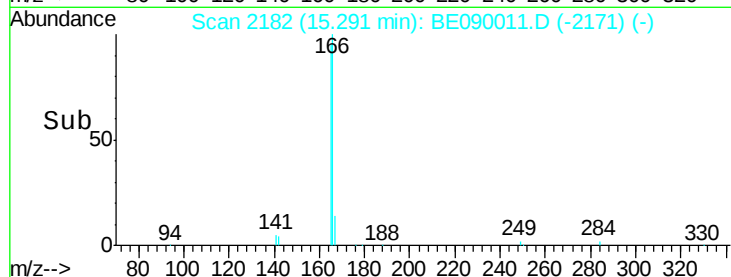
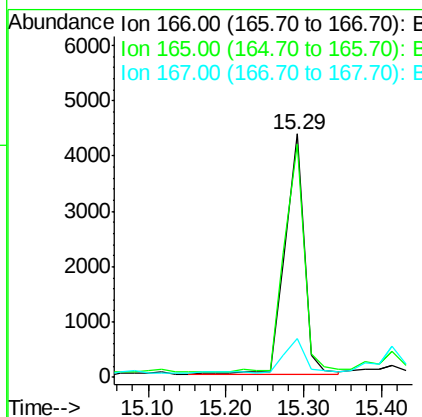
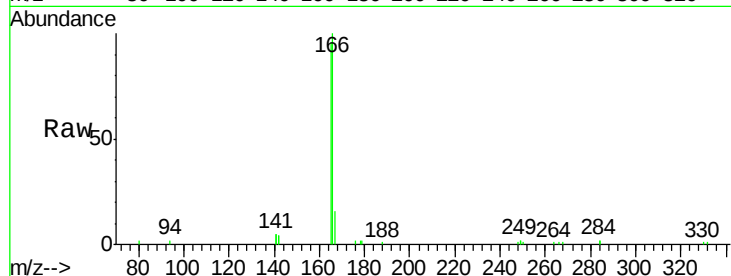




#17
Fluorene
 Concen: 0.27 ng
 RT: 15.29 min Scan# 2182
 Delta R.T. -0.00 min
 Lab File: BE090011.D
 Acq: 30 Jun 2015 10:06

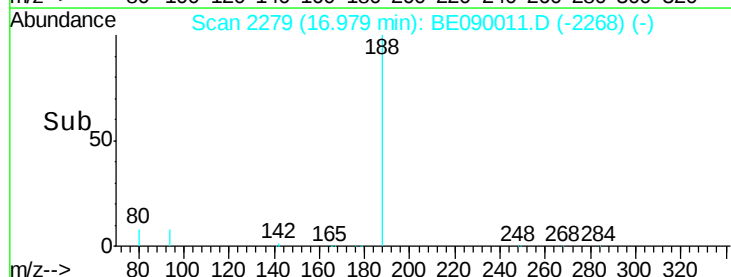
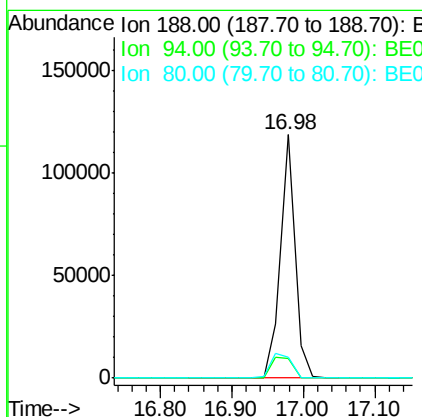
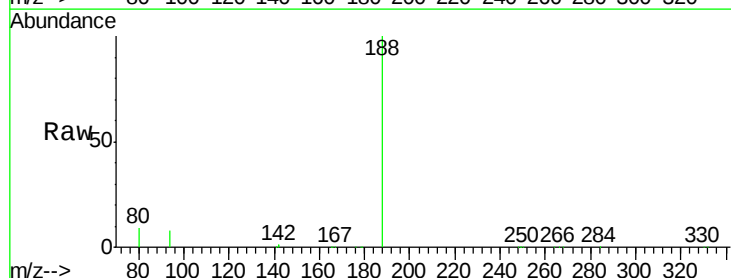
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625-D

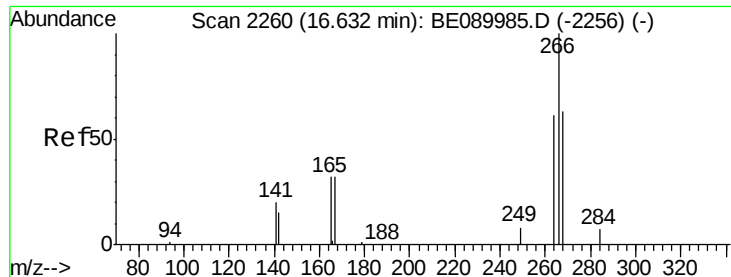
Tgt Ion:166 Resp: 7219
 Ion Ratio Lower Upper
 166 100
 165 101.5 79.0 118.6
 167 17.1 11.8 17.8



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.98 min Scan# 2279
 Delta R.T. -0.00 min
 Lab File: BE090011.D
 Acq: 30 Jun 2015 10:06

Tgt Ion:188 Resp: 169396
 Ion Ratio Lower Upper
 188 100
 94 8.1 4.1 6.1#
 80 8.6 4.2 6.2#





#21

Pentachlorophenol

Concen: 0.27 ng

RT: 16.63 min Scan# 2259

Delta R.T. -0.00 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

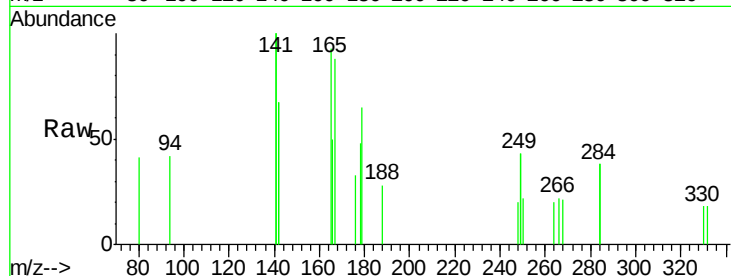
Tgt Ion:266 Resp: 27

Ion Ratio Lower Upper

266 100

268 96.5 51.8 77.8#

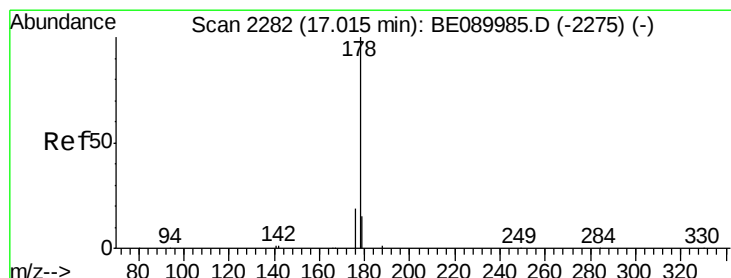
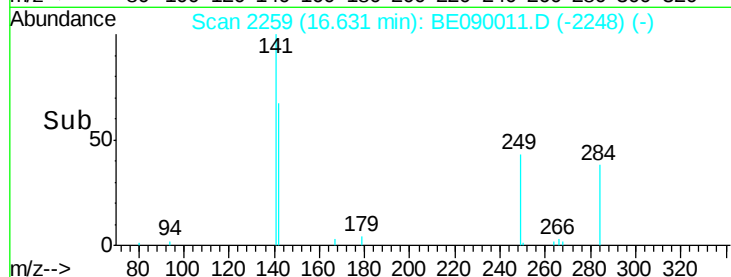
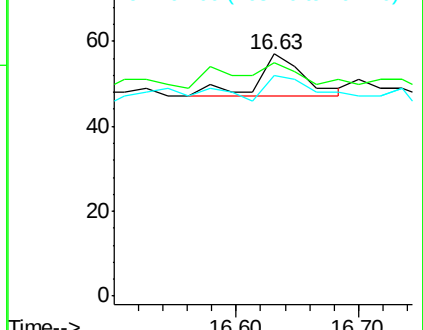
264 91.2 50.2 75.2#



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



#22

Phenanthrene

Concen: 10.19 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

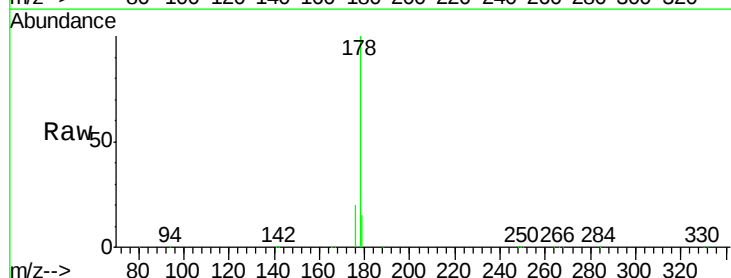
Tgt Ion:178 Resp: 442405

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

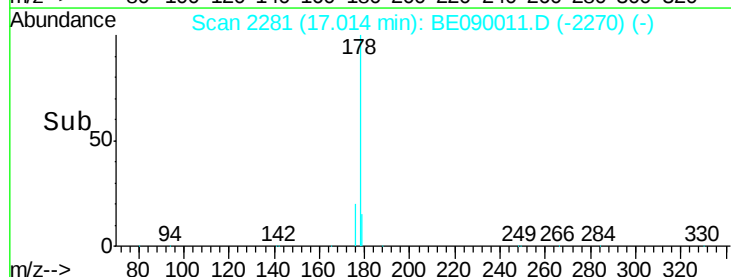
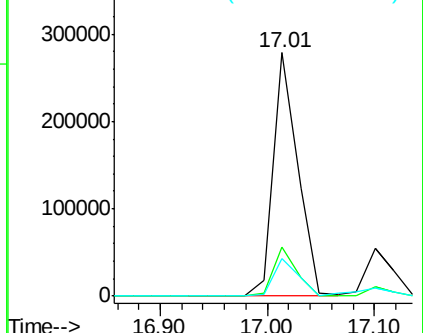
179 16.4 12.4 18.6

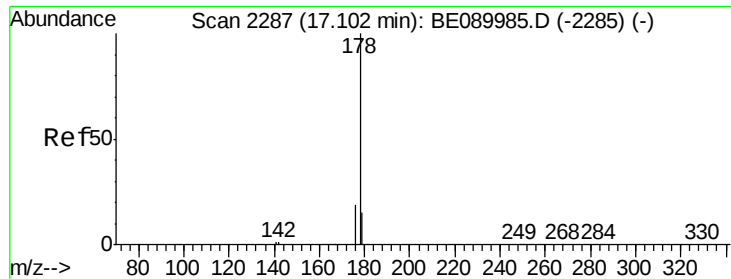


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 11.14 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.09 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

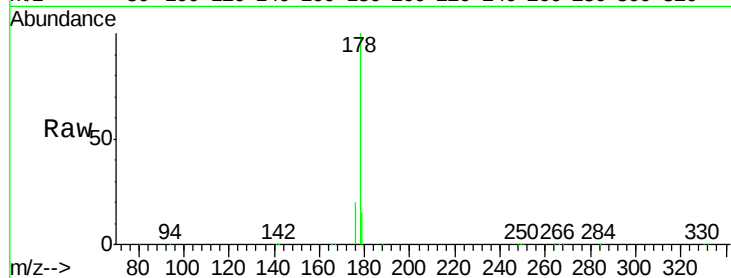
Tgt Ion:178 Resp: 442381

Ion Ratio Lower Upper

178 100

176 19.4 14.7 22.1

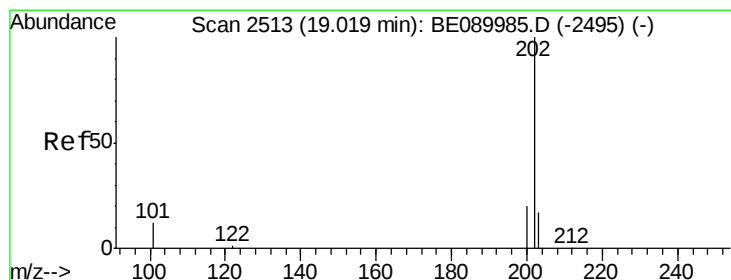
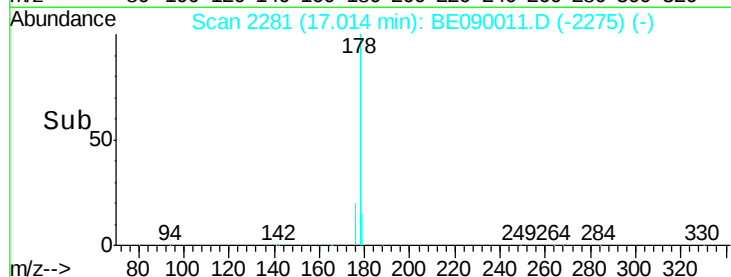
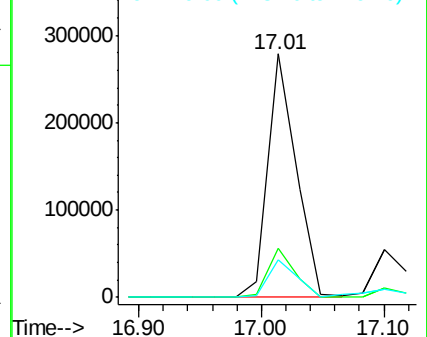
179 16.4 12.1 18.1



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: 30.39 ng

RT: 19.02 min Scan# 2513

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

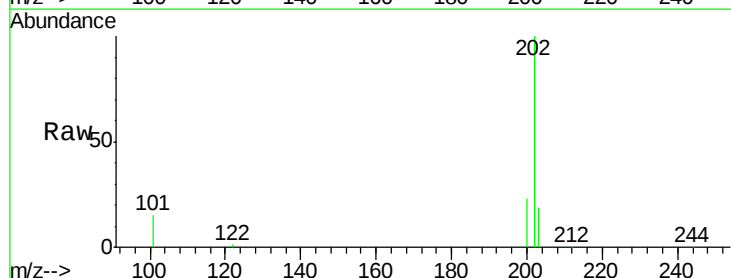
Tgt Ion:202 Resp: 1473304

Ion Ratio Lower Upper

202 100

101 14.7 10.6 15.8

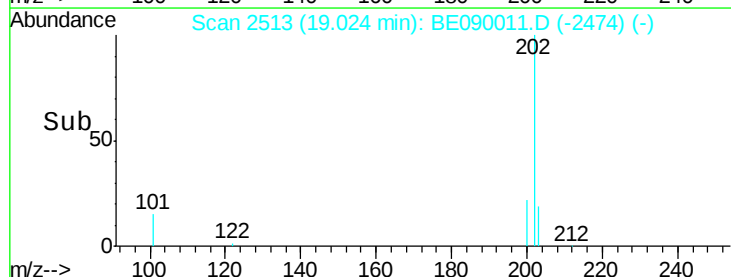
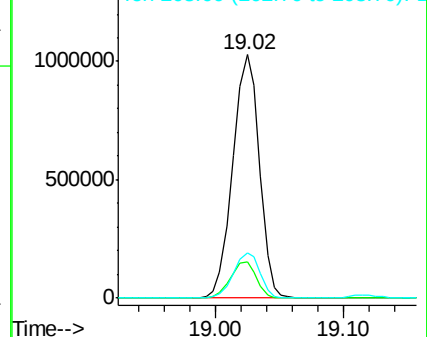
203 18.3 13.8 20.6

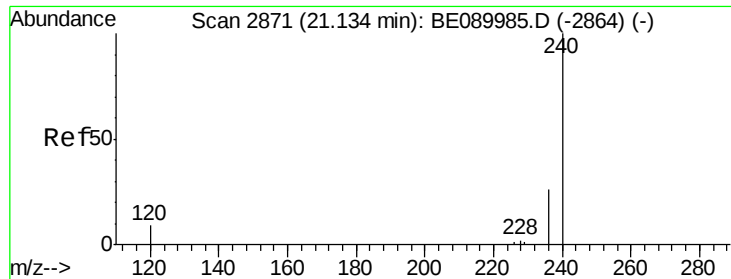


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.14 min Scan# 2870

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

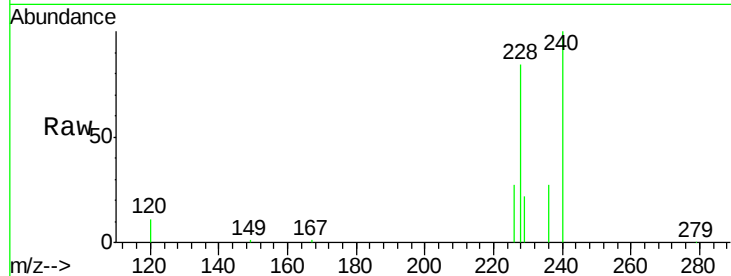
Tgt Ion:240 Resp: 174694

Ion Ratio Lower Upper

240 100

120 11.5 6.9 10.3#

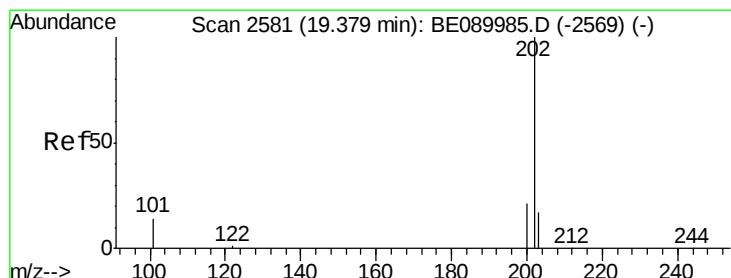
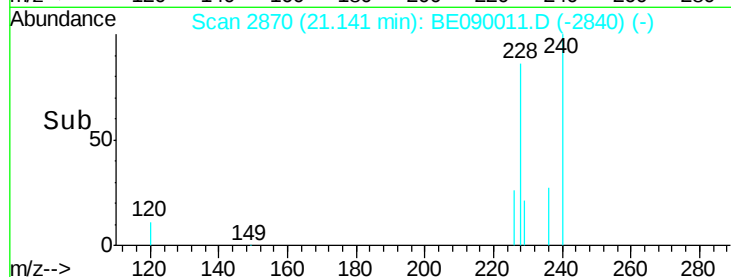
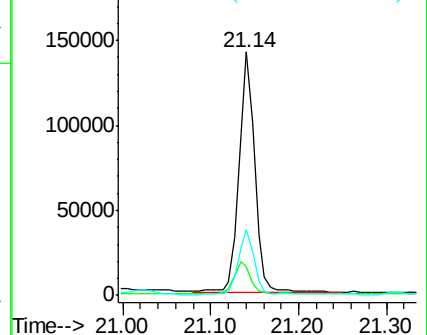
236 26.9 20.8 31.2



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: 33.56 ng

RT: 19.38 min Scan# 2581

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

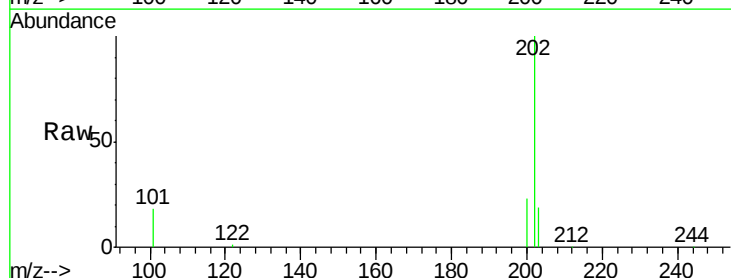
Tgt Ion:202 Resp: 1397324

Ion Ratio Lower Upper

202 100

200 22.5 16.8 25.2

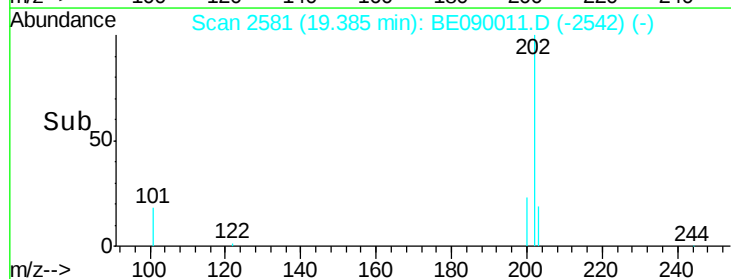
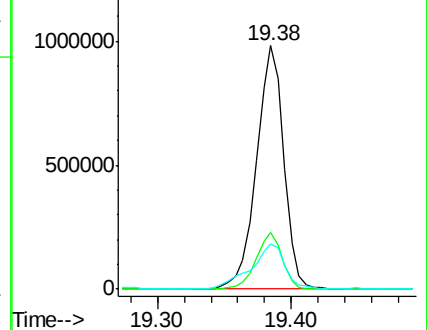
203 23.1 13.9 20.9#

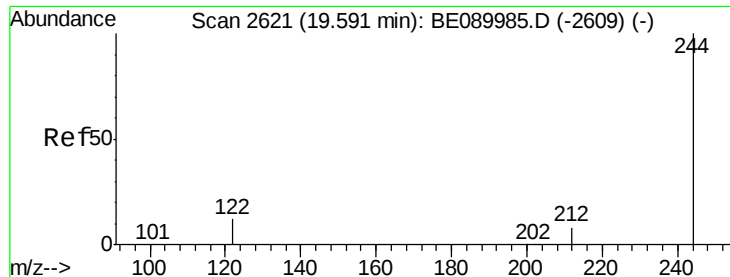


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

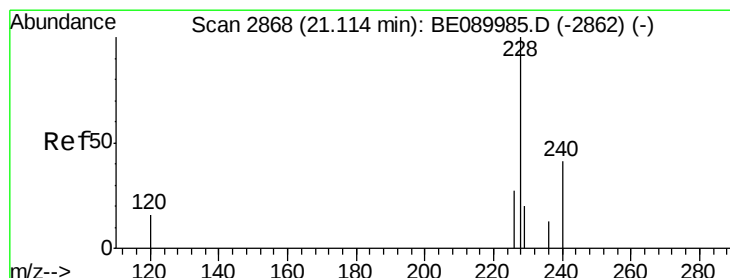
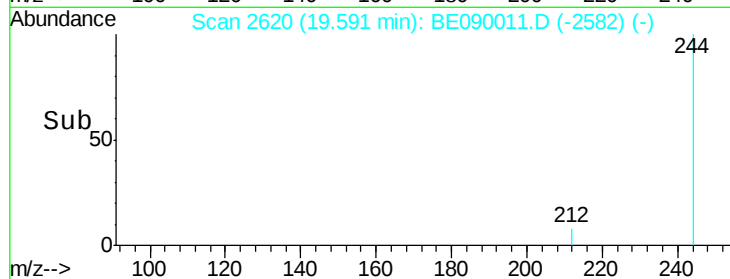
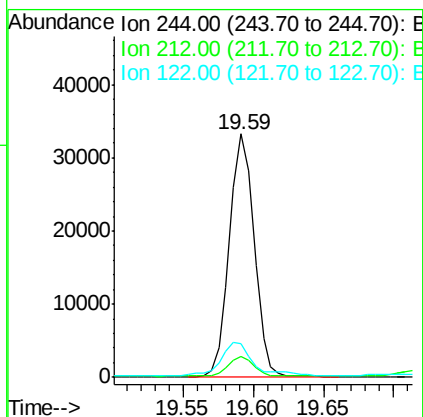
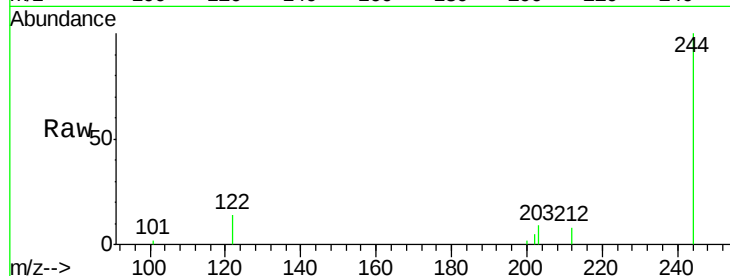




#27
 Terphenyl-d14
 Concen: 1.39 ng
 RT: 19.59 min Scan# 2620
 Delta R.T. 0.00 min
 Lab File: BE090011.D
 Acq: 30 Jun 2015 10:06

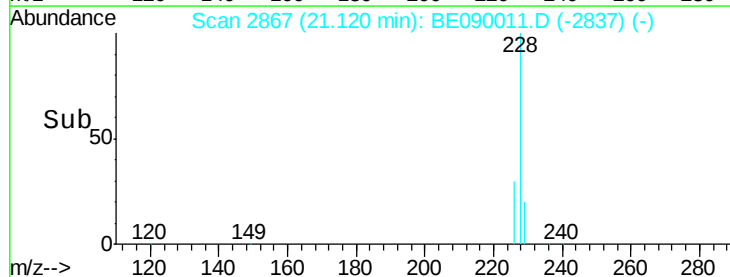
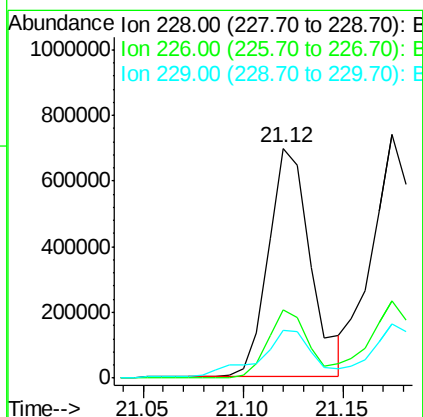
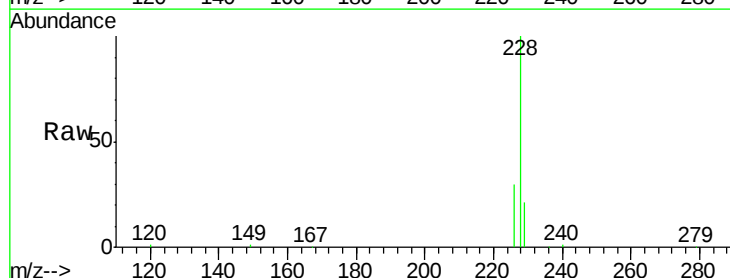
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625-D

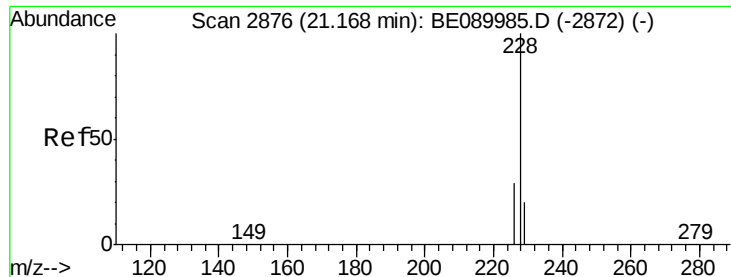
Tgt Ion:244 Resp: 40565
 Ion Ratio Lower Upper
 244 100
 212 8.5 6.6 9.8
 122 13.6 9.8 14.8



#28
 Benzo(a)anthracene
 Concen: 23.44 ng
 RT: 21.12 min Scan# 2867
 Delta R.T. 0.01 min
 Lab File: BE090011.D
 Acq: 30 Jun 2015 10:06

Tgt Ion:228 Resp: 1022512
 Ion Ratio Lower Upper
 228 100
 226 29.9 21.8 32.6
 229 20.7 15.8 23.6





#29

Chrysene

Concen: 23.33 ng

RT: 21.17 min Scan# 2875

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

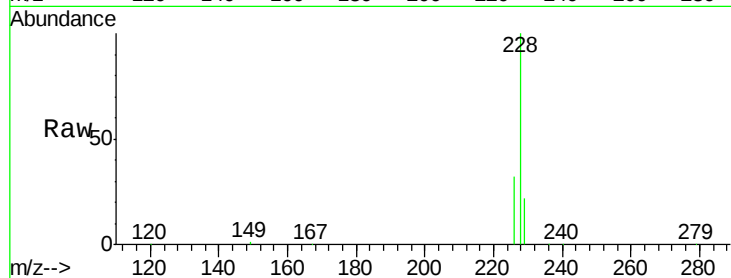
Tgt Ion:228 Resp: 1056896

Ion Ratio Lower Upper

228 100

226 32.0 23.4 35.0

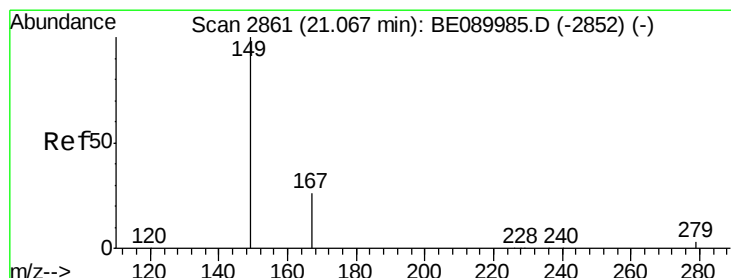
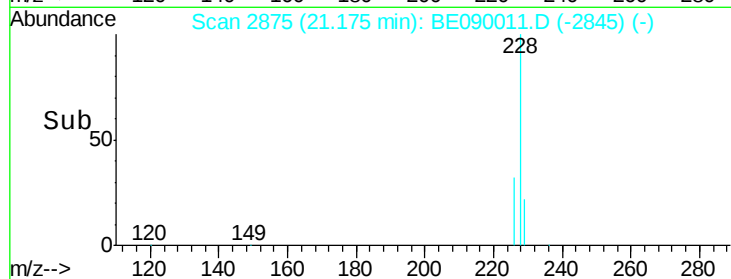
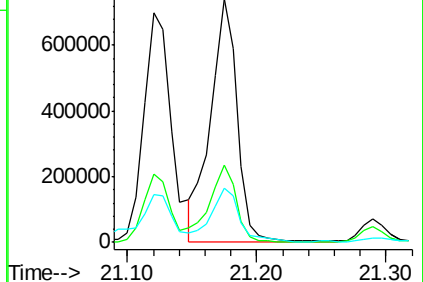
229 22.3 16.2 24.2



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



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.40 ng

RT: 21.07 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

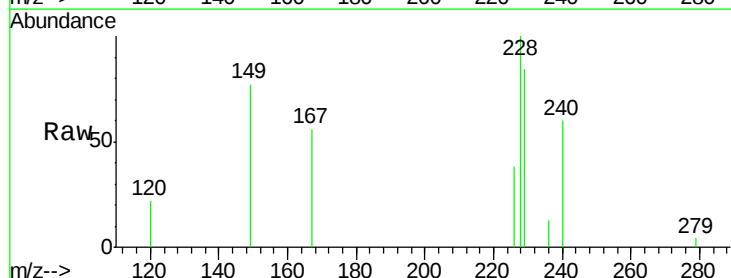
Tgt Ion:149 Resp: 2096

Ion Ratio Lower Upper

149 100

167 0.0 20.3 30.5#

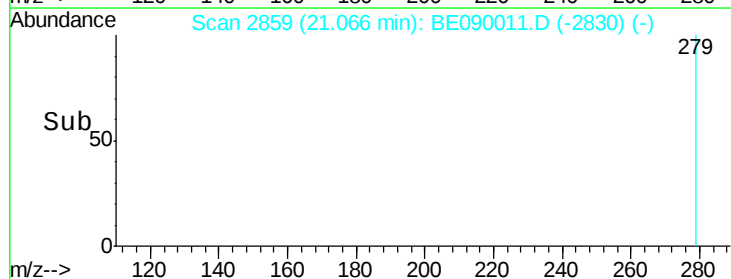
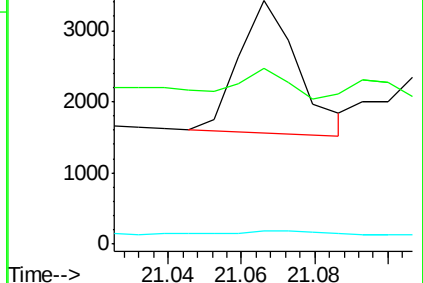
279 3.7 2.6 3.8

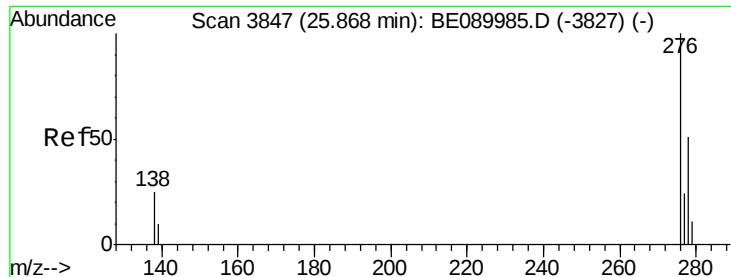


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 16.88 ng

RT: 25.90 min Scan# 3852

Delta R.T. 0.03 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

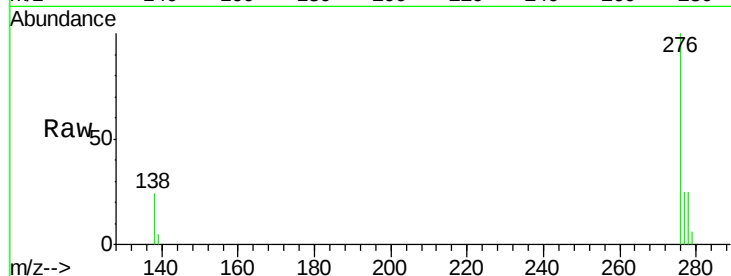
Tgt Ion: 276 Resp: 733340

Ion Ratio Lower Upper

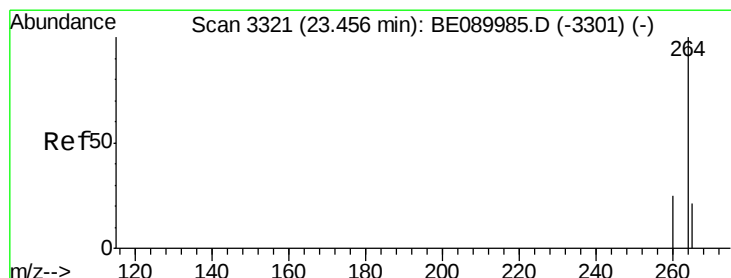
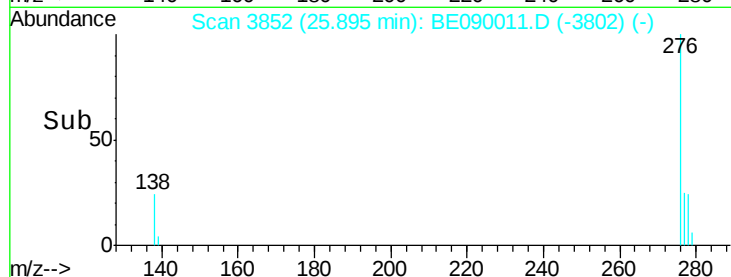
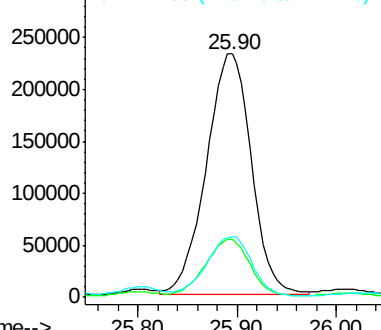
276 100

138 23.2 21.3 31.9

277 24.2 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: 23.47 min Scan# 3323

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

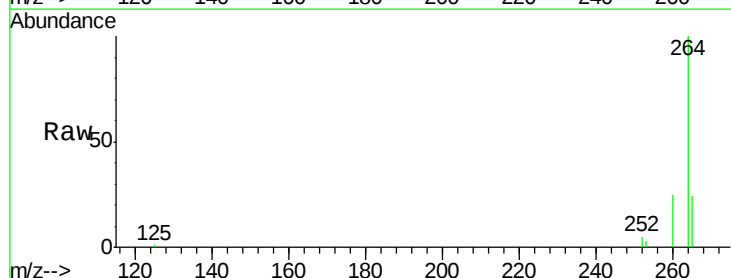
Tgt Ion: 264 Resp: 184787

Ion Ratio Lower Upper

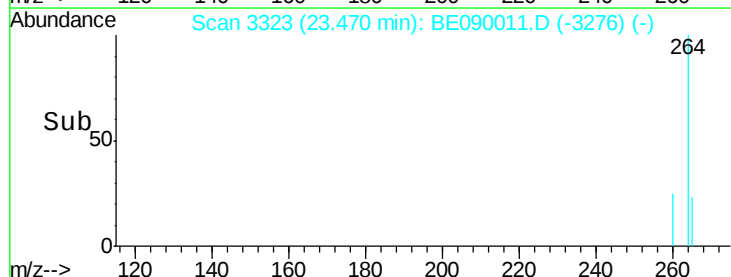
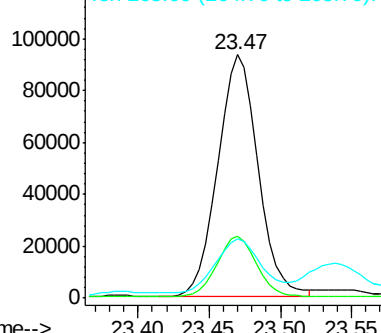
264 100

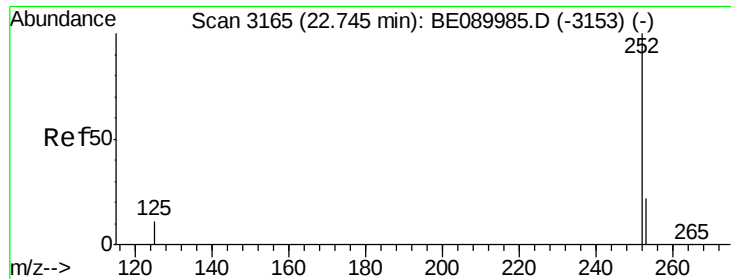
260 25.4 20.2 30.2

265 24.2 17.1 25.7



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

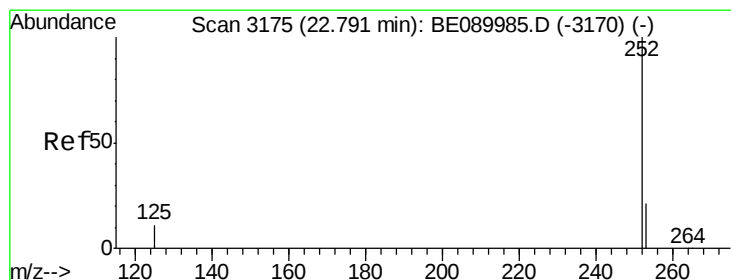
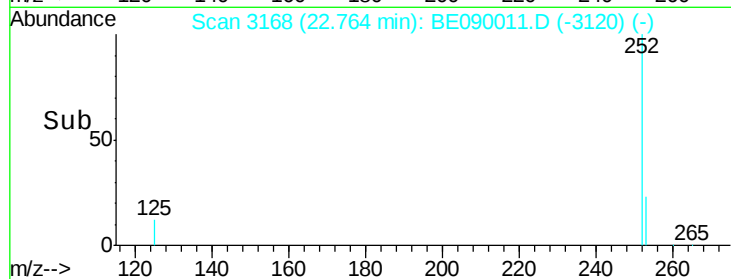
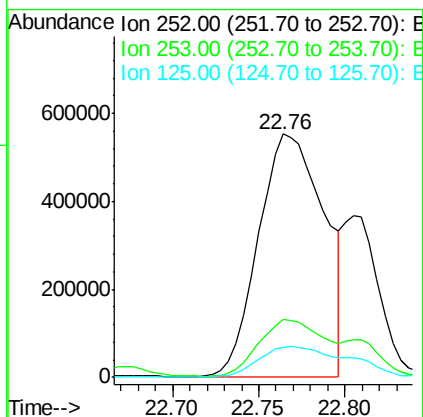
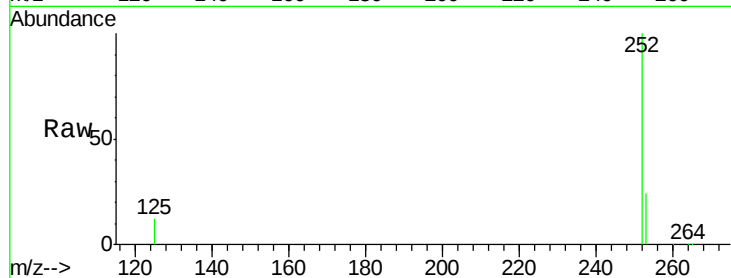




#33
Benzo(b)fluoranthene
Concen: 35.81 ng
RT: 22.76 min Scan# 3168
Delta R.T. 0.02 min
Lab File: BE090011.D
Acq: 30 Jun 2015 10:06

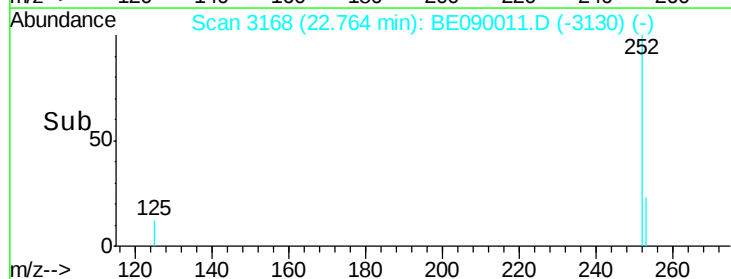
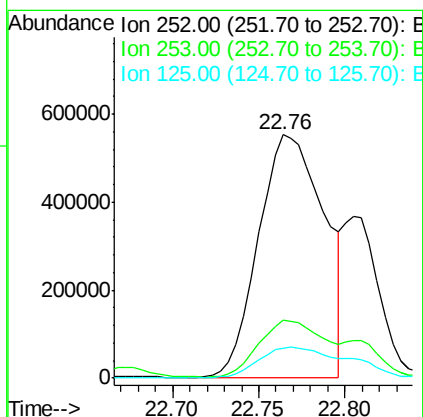
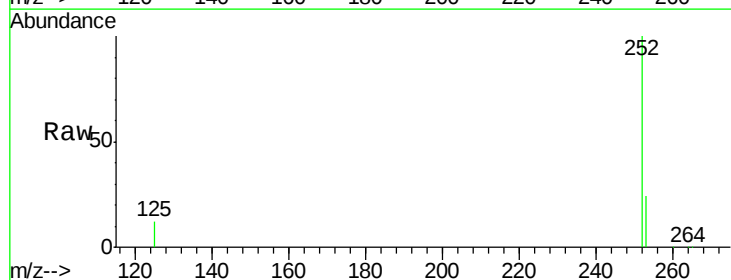
Instrument :
BNA_E
ClientSampleId :
X1SS0520006-150625-D

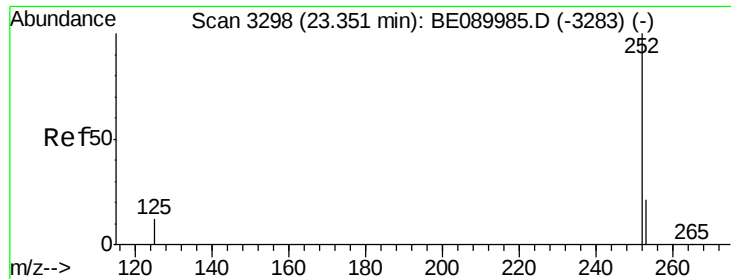
Tgt Ion:252 Resp: 1459694
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.8
125 12.5 9.0 13.4



#34
Benzo(k)fluoranthene
Concen: 32.05 ng
RT: 22.76 min Scan# 3168
Delta R.T. -0.03 min
Lab File: BE090011.D
Acq: 30 Jun 2015 10:06

Tgt Ion:252 Resp: 1459694
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 12.5 9.5 14.3





#35

Benzo(a)pyrene

Concen: 27.38 ng

RT: 23.37 min Scan# 3301

Delta R.T. 0.02 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D

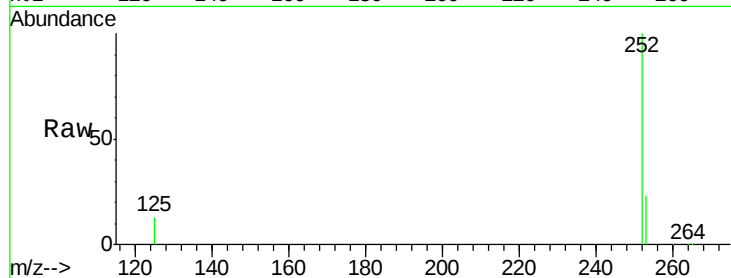
Tgt Ion:252 Resp: 1030541

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.2

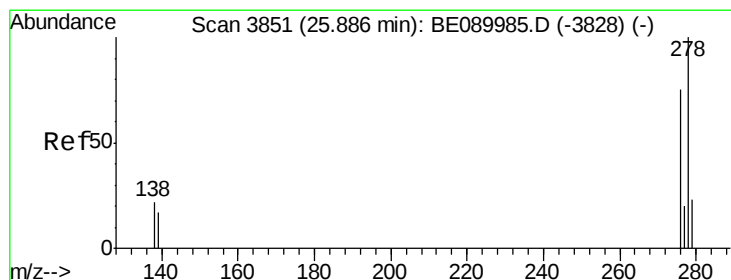
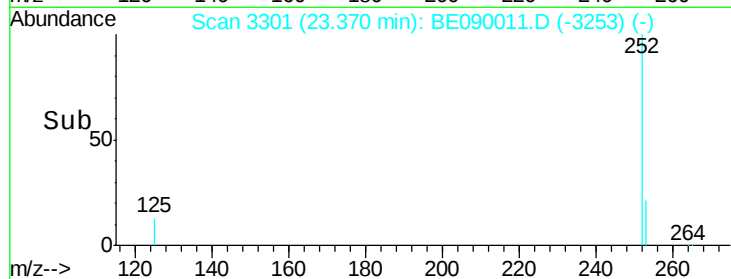
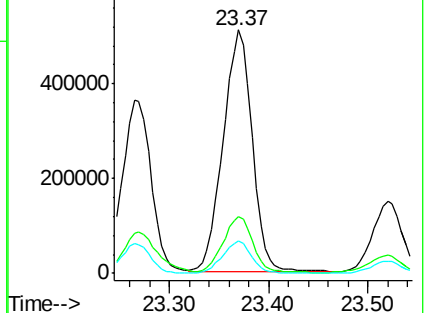
125 13.2 10.5 15.7



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: 4.85 ng

RT: 25.90 min Scan# 3853

Delta R.T. 0.01 min

Lab File: BE090011.D

Acq: 30 Jun 2015 10:06

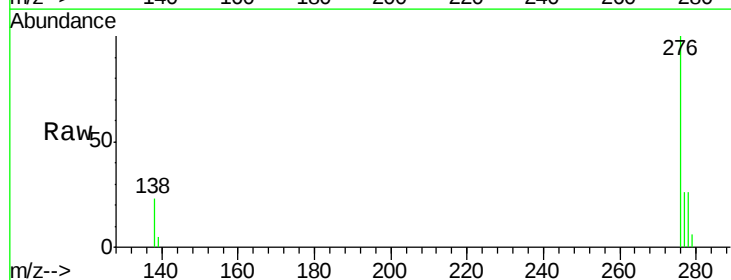
Tgt Ion:278 Resp: 187418

Ion Ratio Lower Upper

278 100

139 18.0 14.4 21.6

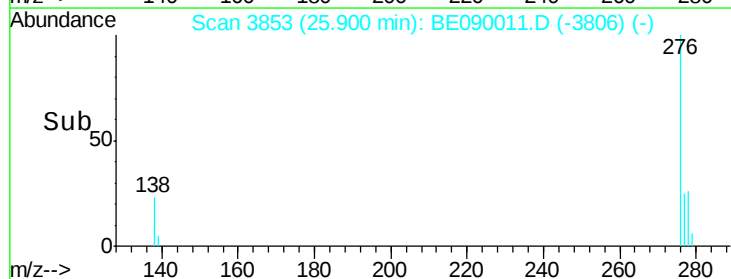
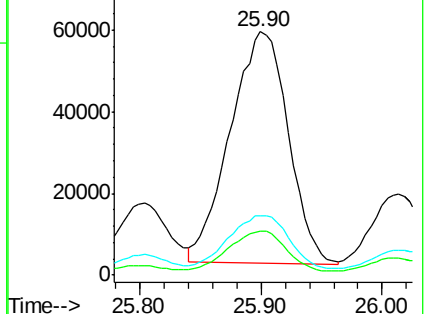
279 24.6 19.0 28.6

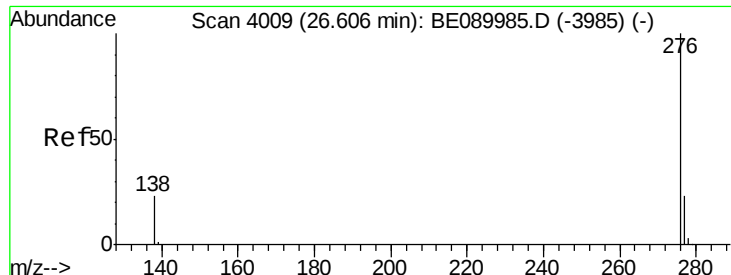


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(g,h,i)perylene

Concen: 18.70 ng

RT: 26.65 min Scan# 4017

Delta R.T. 0.04 min

Lab File: BE090011.D

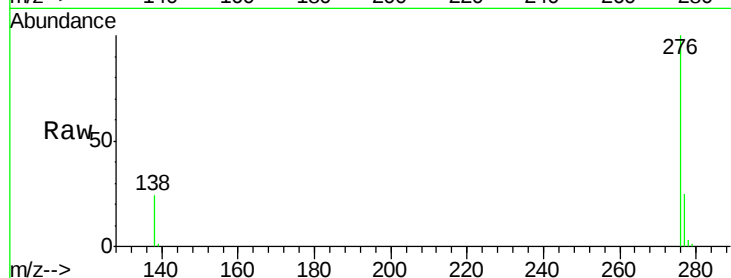
Acq: 30 Jun 2015 10:06

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625-D



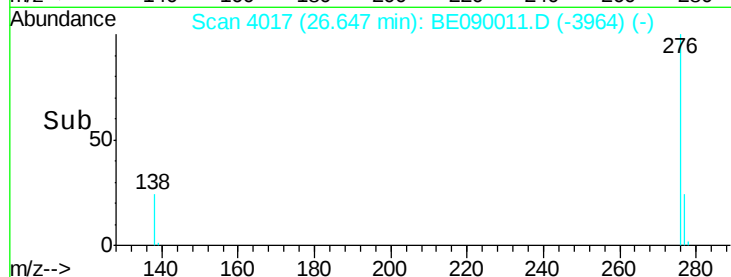
Tgt Ion: 276 Resp: 732654

Ion Ratio Lower Upper

276 100

277 24.6 18.8 28.2

138 23.8 18.6 27.8



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

