

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022515\
 Data File : BE089689.D
 Acq On : 25 Feb 2015 20:50
 Operator : TP/JJ
 Sample : G1353-02
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FB

Quant Time: Feb 26 06:08:27 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 26 00:03:50 2015
 Response via : Initial Calibration

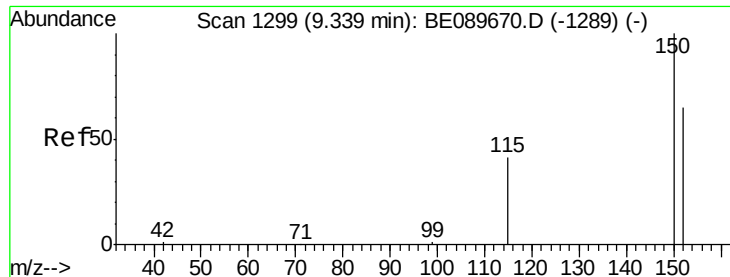
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.33	152	44546	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	211438	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	98161	5.00	ng	0.00
13) Phenanthrene-d10	19.76	188	165907	5.00	ng	0.00
19) Chrysene-d12	23.65	240	116907	5.00	ng	0.00
25) Perylene-d12	25.34	264	99273	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) Nitrobenzene-d5	10.60	82	87298	6.99	ng	0.00
9) 2-Fluorobiphenyl	14.87	172	185058	8.48	ng	0.00
21) Terphenyl-d14	22.30	244	155515	11.34	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	12.28	128	3167	0.08	ng	# 92
7) 2-Methylnaphthalene	13.94	142	5017	0.22	ng	95
10) Acenaphthylene	16.06	152	11615	0.08	ng	# 83
11) Acenaphthene	16.49	154	2187	0.10	ng	# 60
12) Fluorene	17.74	166	3684	0.15	ng	# 88
14) Hexachlorobenzene	18.99	284	358	0.08	ng	# 76
15) Pentachlorophenol	19.43	266	418	1.07	ng	96
16) Phenanthrene	19.81	178	9352	0.26	ng	99
17) Anthracene	19.90	178	3006m	0.10	ng	
18) Fluoranthene	21.72	202	2902	0.10	ng	100
20) Pyrene	22.04	202	3261m	0.12	ng	
22) Benzo(a)anthracene	23.64	228	8366	0.11	ng	96
23) Chrysene	23.68	228	10572	0.10	ng	95
26) Benzo(b)fluoranthene	24.91	252	660	0.14	ng	# 79
27) Benzo(k)fluoranthene	24.94	252	1402m	0.13	ng	
28) Benzo(a)pyrene	25.27	252	706	0.12	ng	# 75
29) Dibenzo(a,h)anthracene	26.77	278	516	0.18	ng	# 71
30) Benzo(g,h,i)perylene	27.15	276	3687	0.17	ng	# 84

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

```
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Data File : BE089689.D  
Acq On    : 25 Feb 2015   20:50  
Operator  : TP/JJ  
Sample    : G1353-02  
Misc      :  
ALS Vial  : 23      Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.33 min Scan# 1298

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

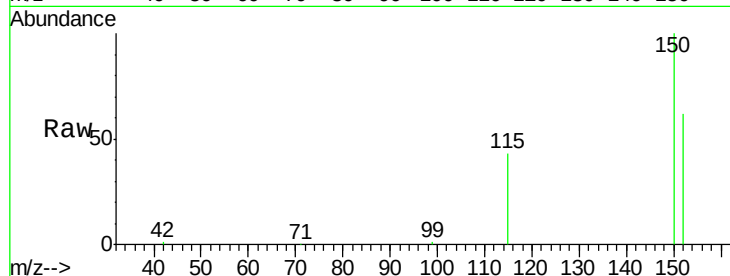
Tgt Ion:152 Resp: 44546

Ion Ratio Lower Upper

152 100

150 161.3 123.4 185.0

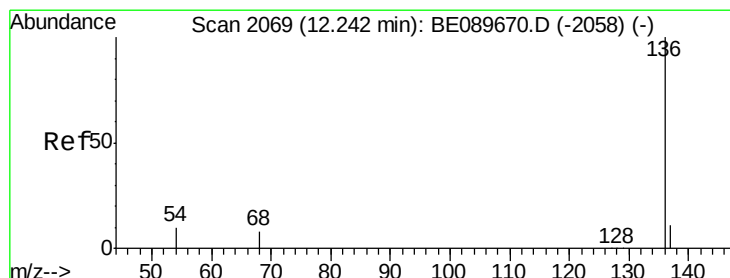
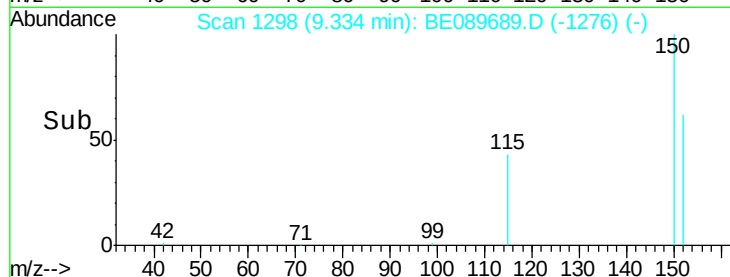
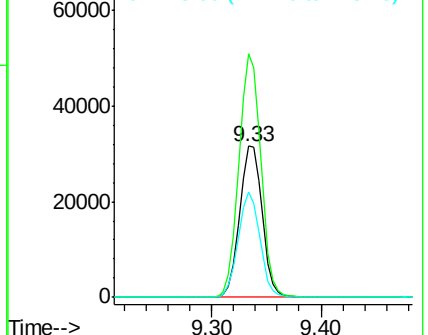
115 69.8 50.8 76.2



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2068

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

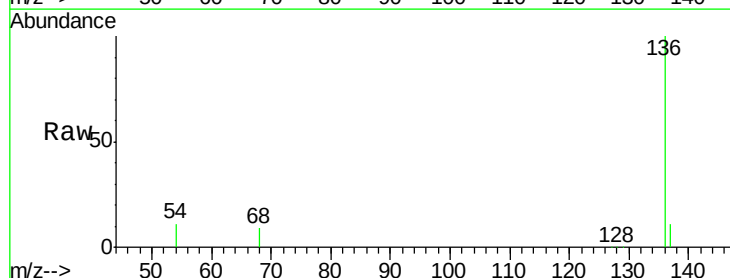
Tgt Ion:136 Resp: 211438

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

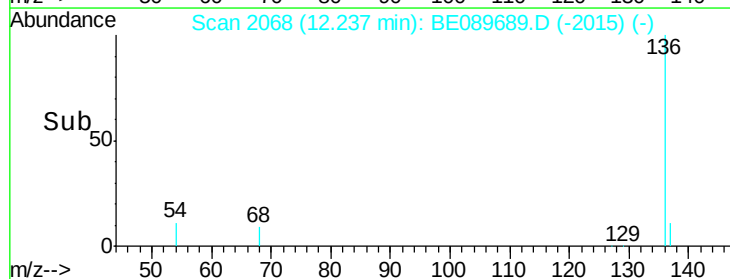
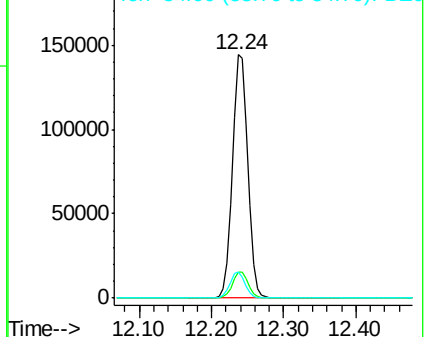
54 10.8 7.8 11.8

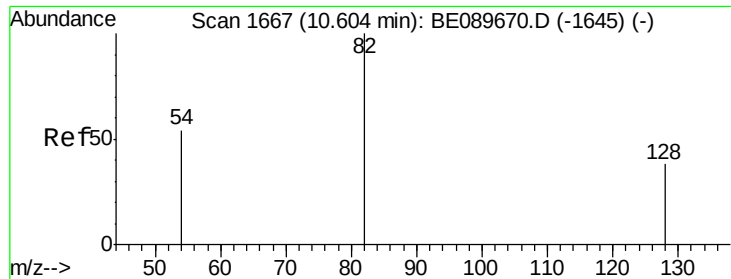


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 6.99 ng

RT: 10.60 min Scan# 1666

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampled :

FB

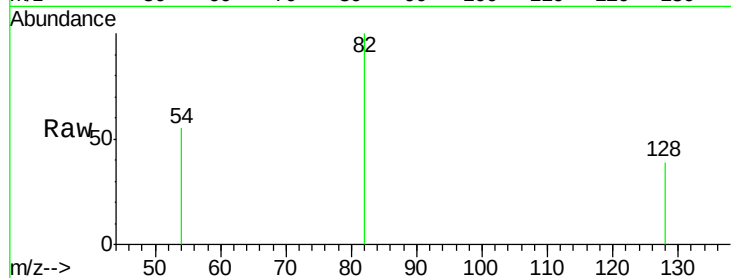
Tgt Ion: 82 Resp: 87298

Ion Ratio Lower Upper

82 100

128 39.2 30.6 46.0

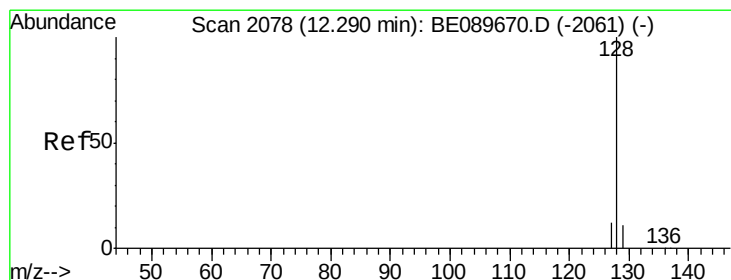
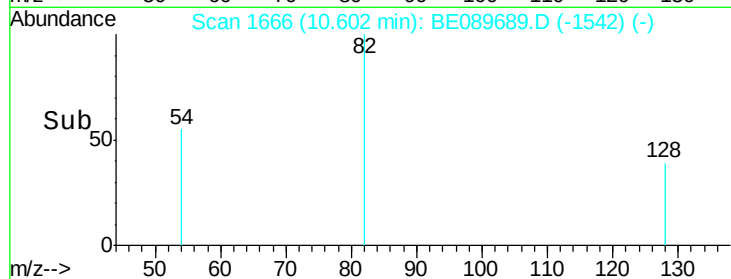
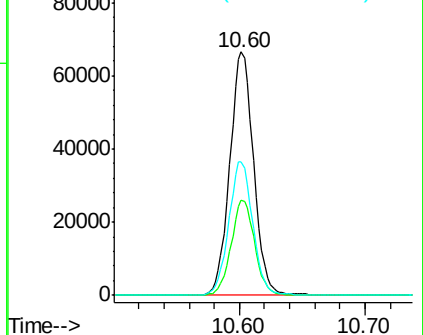
54 54.8 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE089670.D (-1645) (-)

Ion 128.00 (127.70 to 128.70): BE089670.D (-1645) (-)

Ion 54.00 (53.70 to 54.70): BE089670.D (-1645) (-)



#6

Naphthalene

Concen: 0.08 ng

RT: 12.28 min Scan# 2077

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

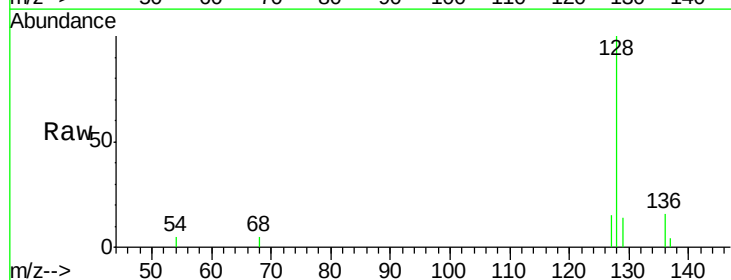
Tgt Ion: 128 Resp: 3167

Ion Ratio Lower Upper

128 100

129 14.3 8.9 13.3#

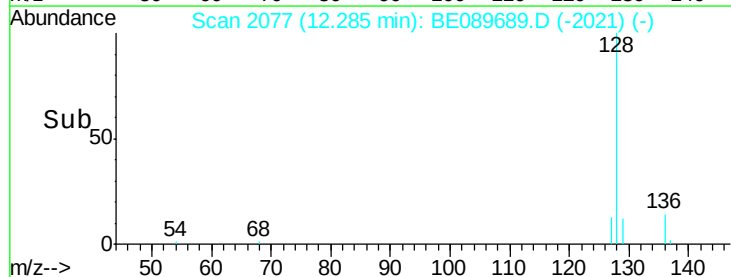
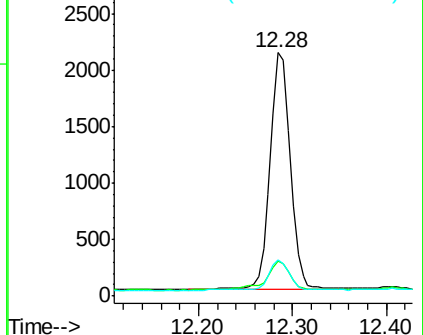
127 14.8 9.7 14.5#

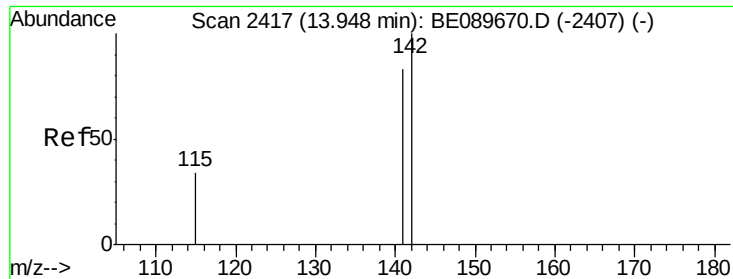


Abundance Ion 128.00 (127.70 to 128.70): BE089670.D (-2061) (-)

Ion 129.00 (128.70 to 129.70): BE089670.D (-2061) (-)

Ion 127.00 (126.70 to 127.70): BE089670.D (-2061) (-)





#7

2-Methylnaphthalene

Concen: 0.22 ng

RT: 13.94 min Scan# 2416

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

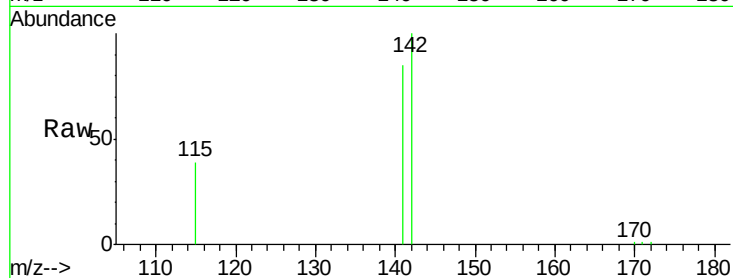
Tgt Ion:142 Resp: 5017

Ion Ratio Lower Upper

142 100

141 85.4 66.0 99.0

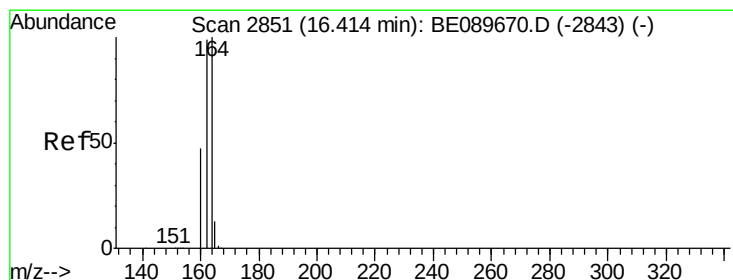
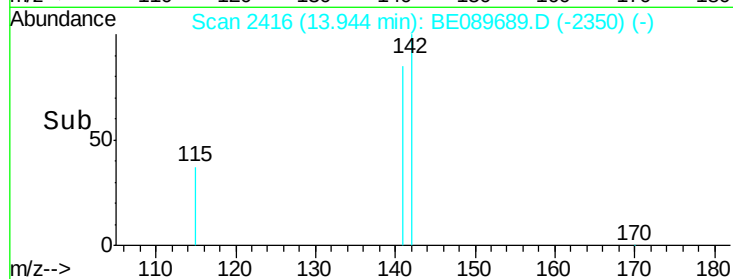
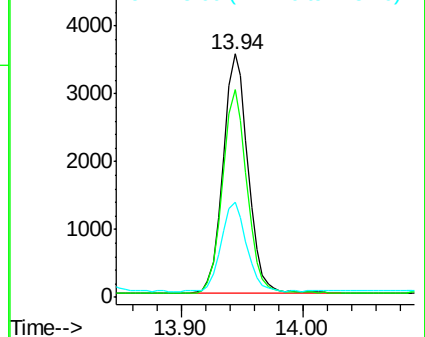
115 39.3 27.4 41.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.41 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

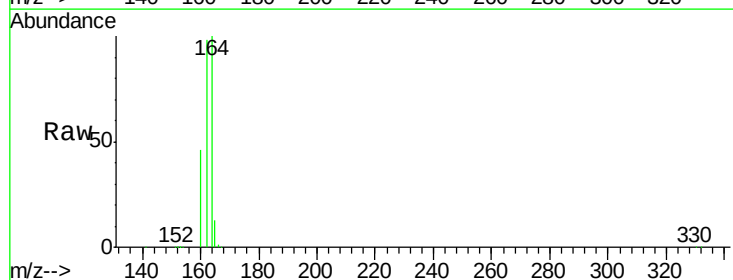
Tgt Ion:164 Resp: 98161

Ion Ratio Lower Upper

164 100

162 97.6 79.4 119.2

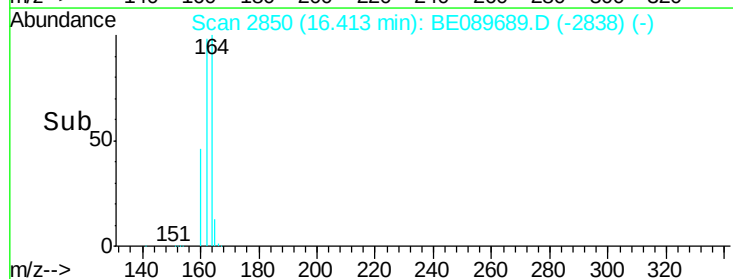
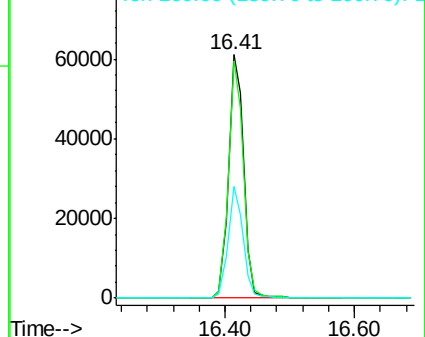
160 46.1 37.6 56.4

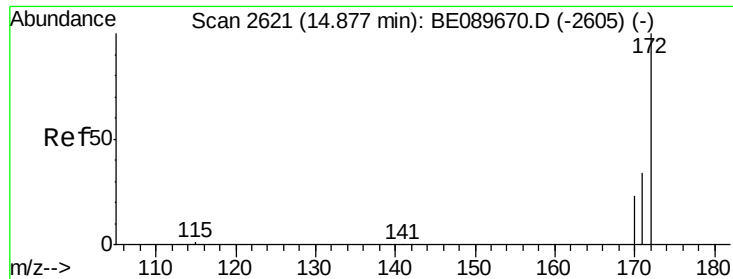


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.48 ng

RT: 14.87 min Scan# 2620

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

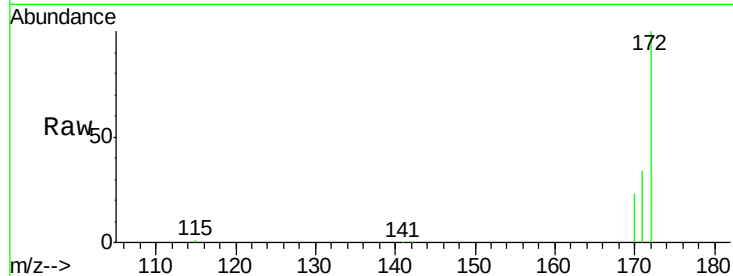
Tgt Ion:172 Resp: 185058

Ion Ratio Lower Upper

172 100

171 34.1 27.3 40.9

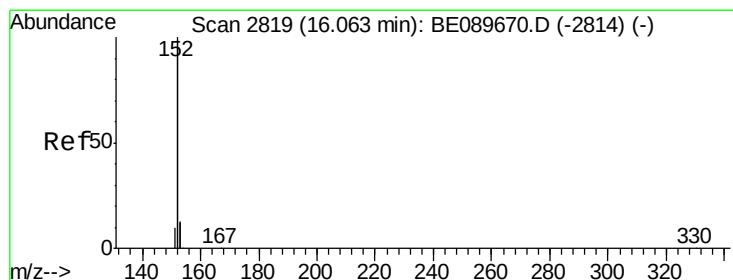
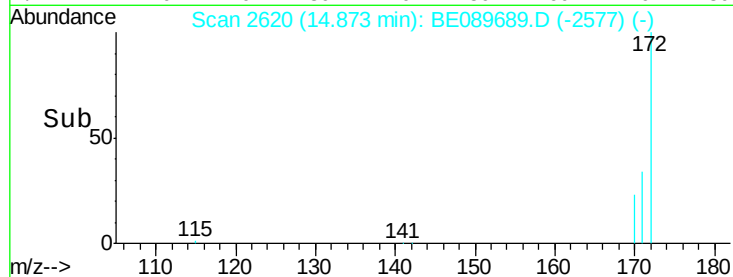
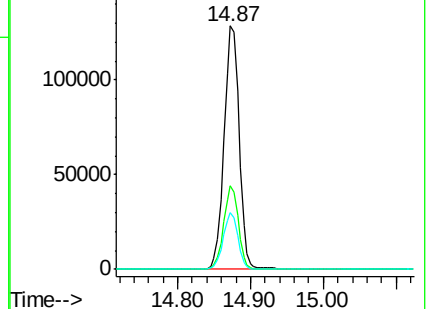
170 23.4 18.5 27.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.08 ng

RT: 16.06 min Scan# 2818

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

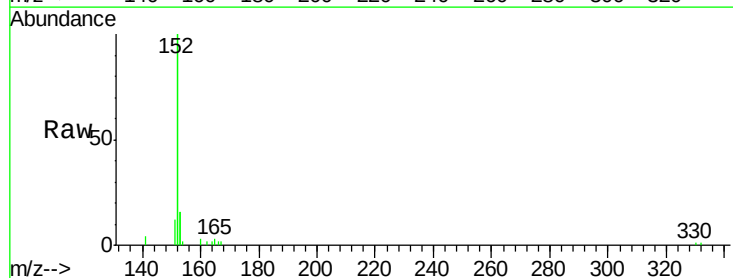
Tgt Ion:152 Resp: 11615

Ion Ratio Lower Upper

152 100

151 5.0 3.8 5.6

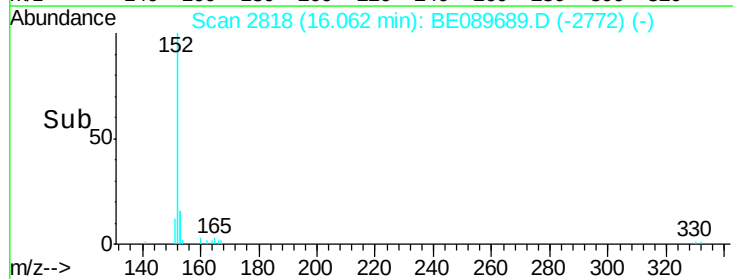
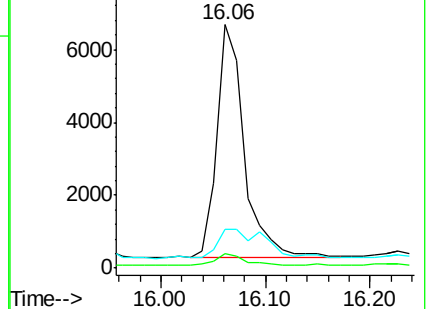
153 22.1 10.4 15.6#

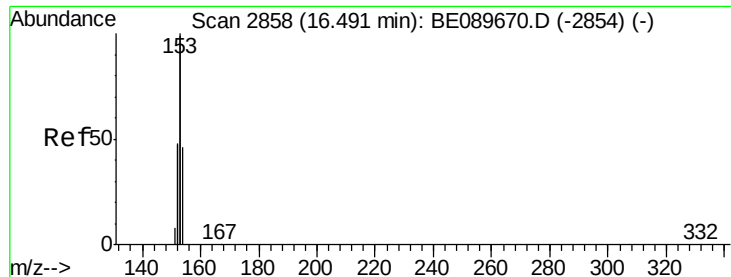


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.10 ng

RT: 16.49 min Scan# 2857

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

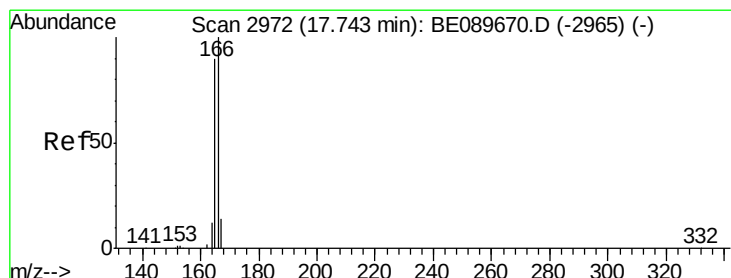
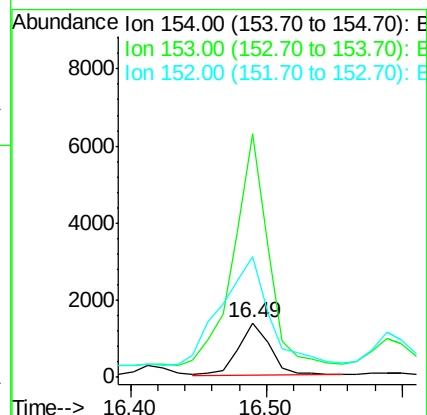
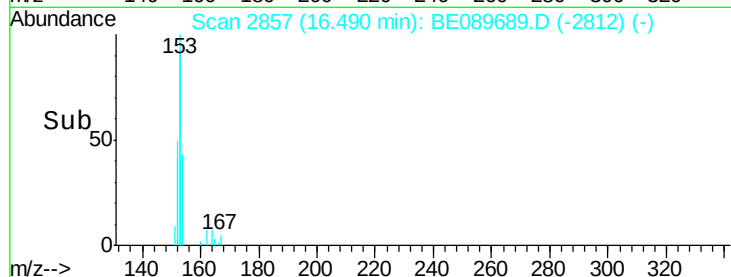
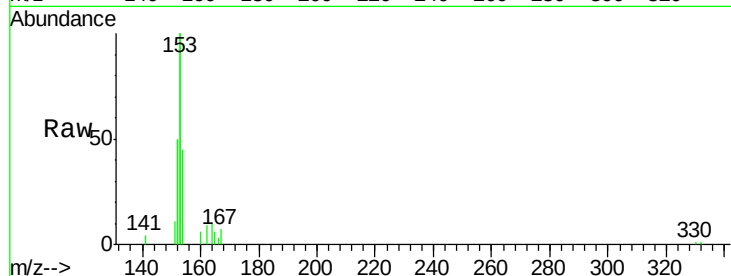
Tgt Ion:154 Resp: 2187

Ion Ratio Lower Upper

154 100

153 495.9 345.8 518.8

152 320.3 168.6 252.8#



#12

Fluorene

Concen: 0.15 ng

RT: 17.74 min Scan# 2971

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

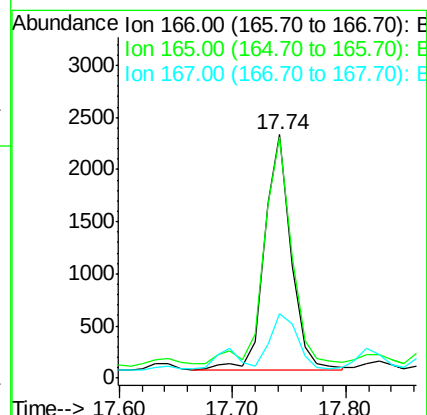
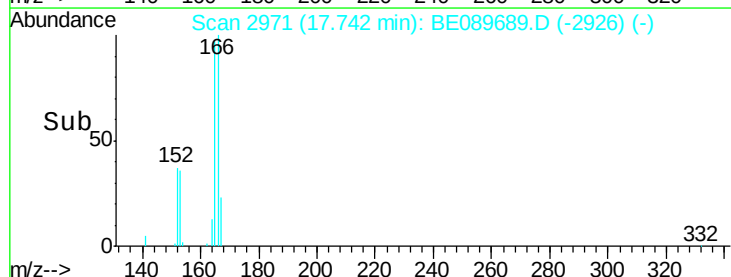
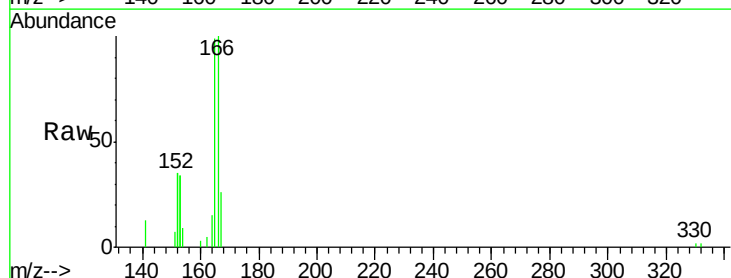
Tgt Ion:166 Resp: 3684

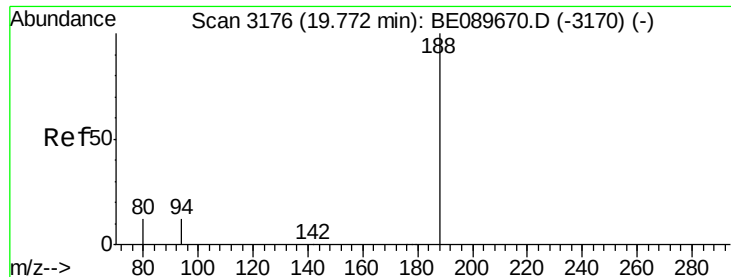
Ion Ratio Lower Upper

166 100

165 101.9 73.6 110.4

167 23.7 10.6 16.0#

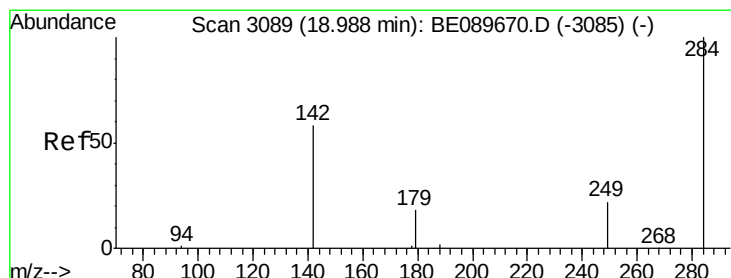
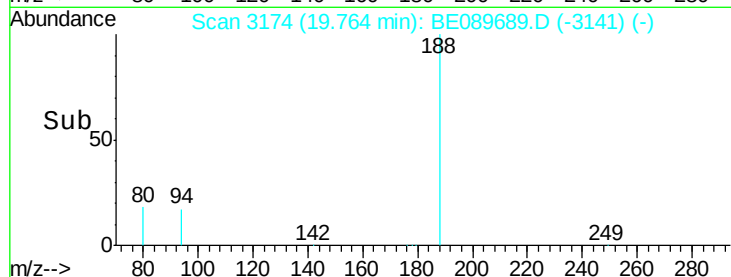
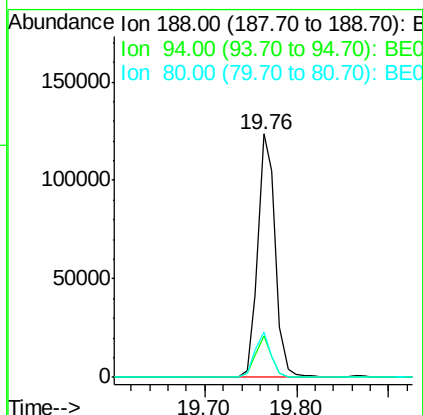
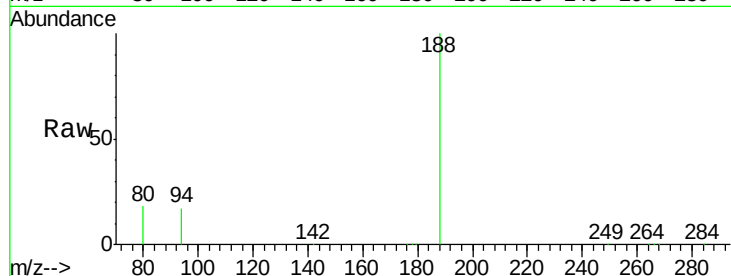




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3174
Delta R.T. 0.00 min
Lab File: BE089689.D
Acq: 25 Feb 2015 20:50

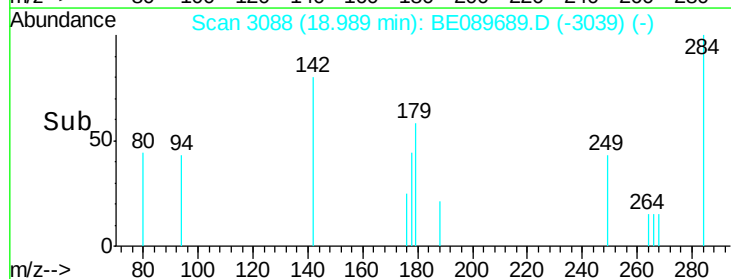
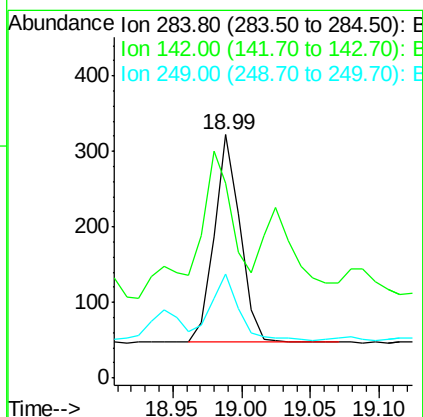
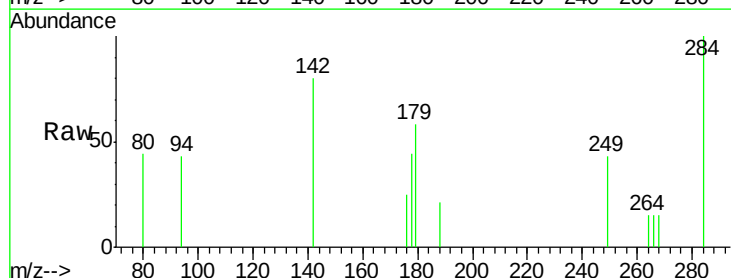
Instrument :
BNA_E
ClientSampleId :
FB

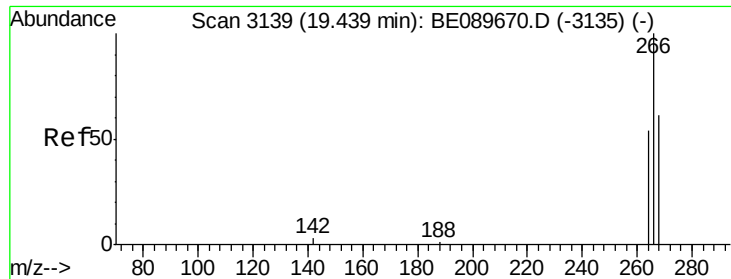
Tgt Ion:188 Resp: 165907
Ion Ratio Lower Upper
188 100
94 17.2 9.4 14.2#
80 18.4 9.5 14.3#



#14
Hexachlorobenzene
Concen: 0.08 ng
RT: 18.99 min Scan# 3088
Delta R.T. 0.00 min
Lab File: BE089689.D
Acq: 25 Feb 2015 20:50

Tgt Ion:284 Resp: 358
Ion Ratio Lower Upper
284 100
142 98.9 55.4 83.2#
249 34.1 27.2 40.8

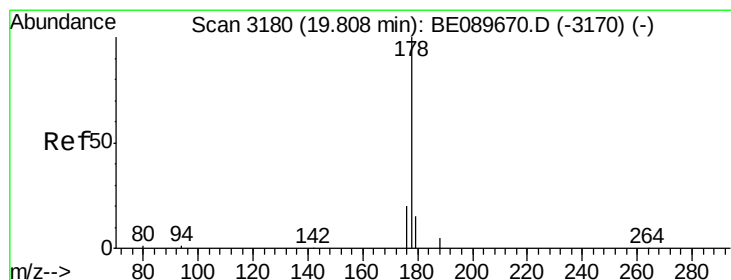
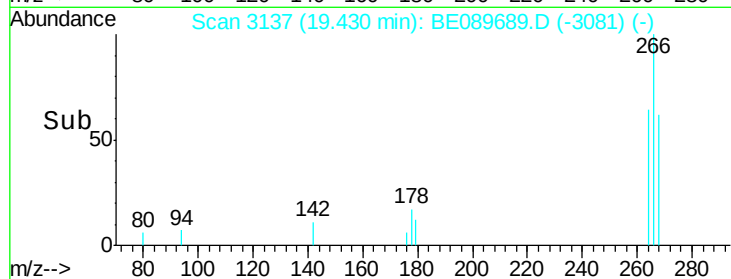
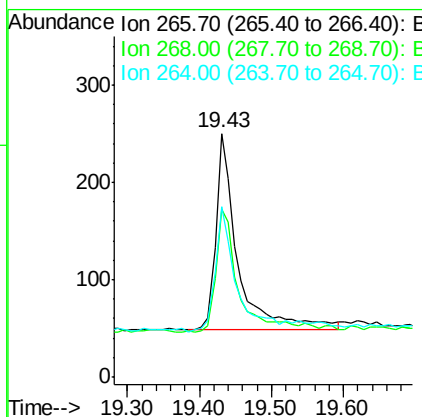
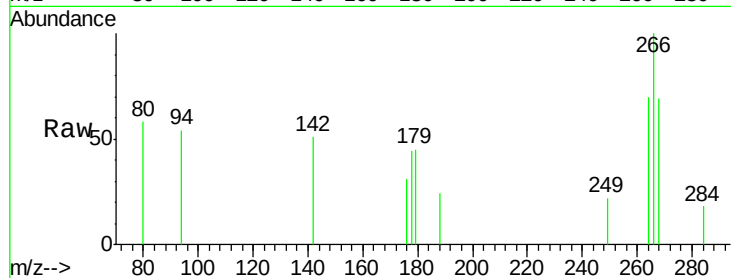




#15
 Pentachlorophenol
 Concen: 1.07 ng
 RT: 19.43 min Scan# 3137
 Delta R.T. 0.00 min
 Lab File: BE089689.D
 Acq: 25 Feb 2015 20:50

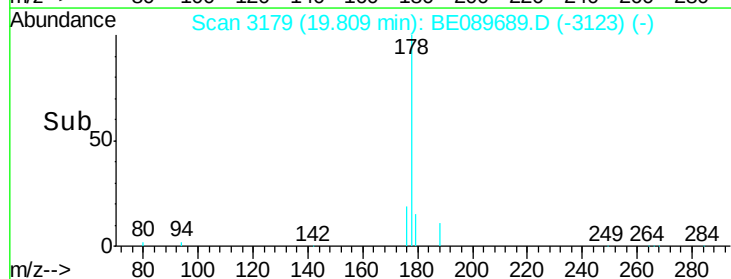
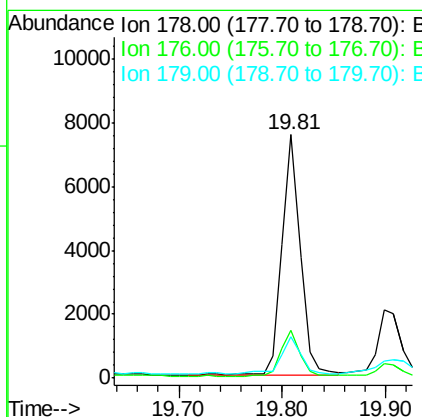
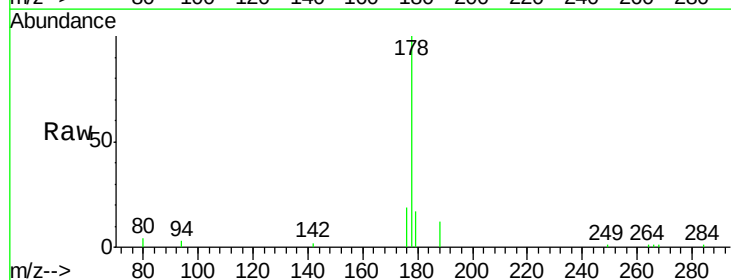
Instrument :
 BNA_E
 ClientSampleId :
 FB

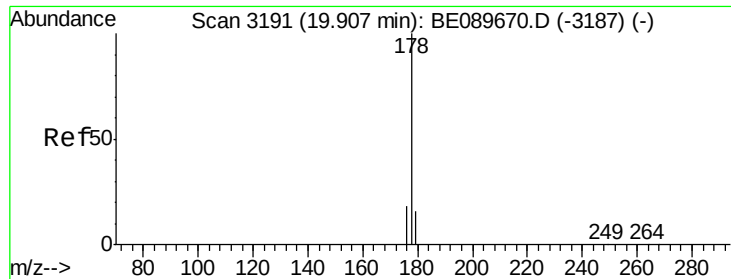
Tgt Ion: 266 Resp: 418
 Ion Ratio Lower Upper
 266 100
 268 68.8 56.3 84.5
 264 70.0 51.8 77.8



#16
 Phenanthrene
 Concen: 0.26 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: BE089689.D
 Acq: 25 Feb 2015 20:50

Tgt Ion: 178 Resp: 9352
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.3 22.9
 179 16.8 12.5 18.7

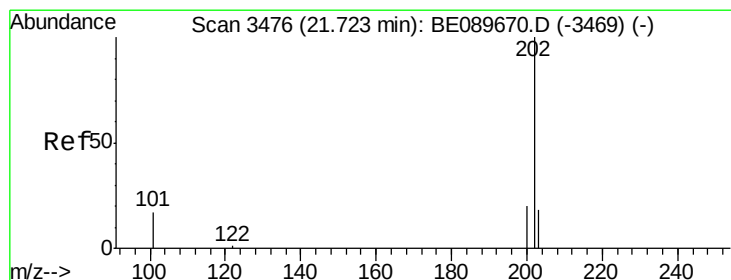
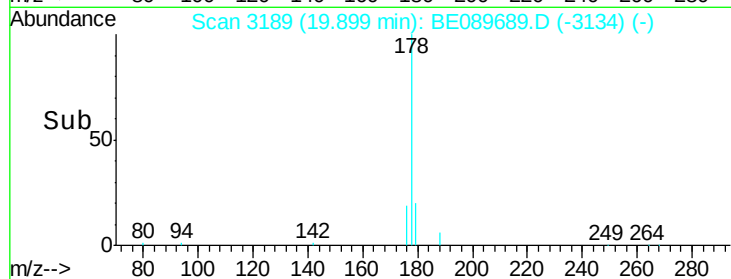
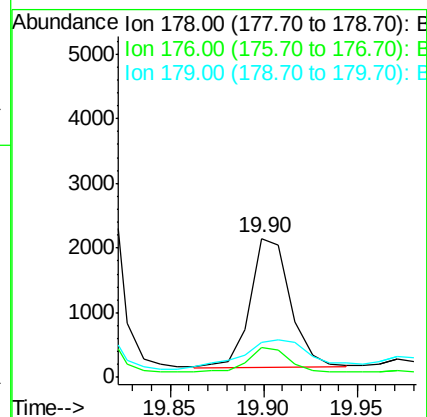
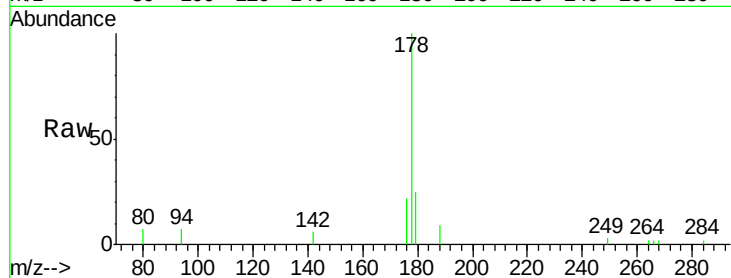




#17
 Anthracene
 Concen: 0.10 ng m
 RT: 19.90 min Scan# 3189
 Delta R.T. -0.01 min
 Lab File: BE089689.D
 Acq: 25 Feb 2015 20:50

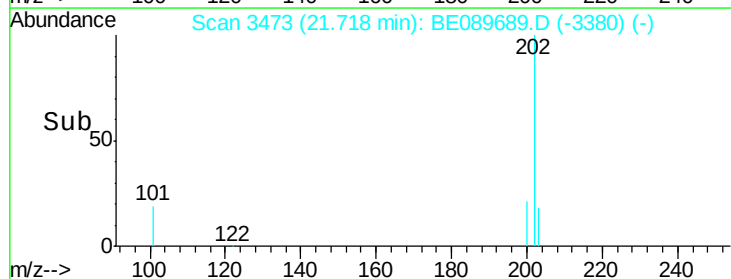
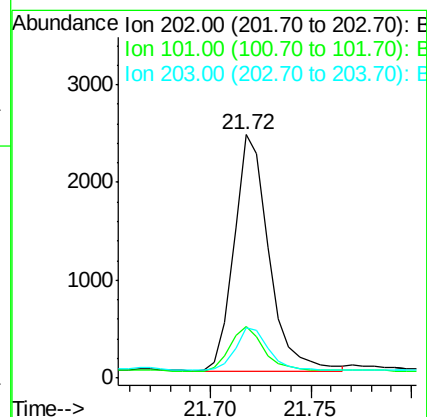
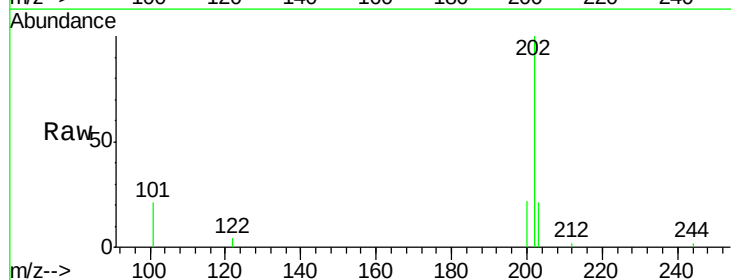
Instrument :
 BNA_E
 ClientSampleId :
 FB

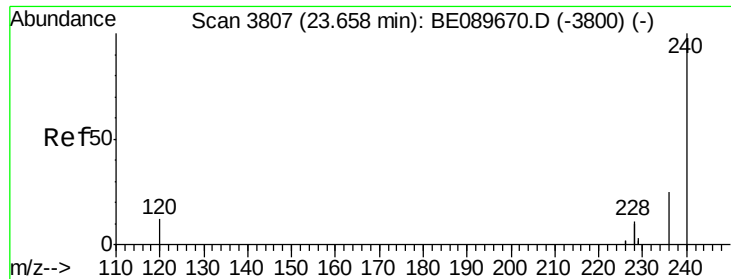
Tgt Ion:178 Resp: 3006
 Ion Ratio Lower Upper
 178 100
 176 58.8 14.8 22.2#
 179 52.2 12.2 18.2#



#18
 Fluoranthene
 Concen: 0.10 ng
 RT: 21.72 min Scan# 3473
 Delta R.T. -0.00 min
 Lab File: BE089689.D
 Acq: 25 Feb 2015 20:50

Tgt Ion:202 Resp: 2902
 Ion Ratio Lower Upper
 202 100
 101 18.7 14.9 22.3
 203 17.4 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3804

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

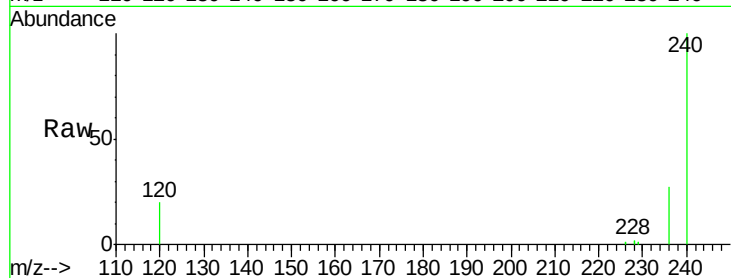
Tgt Ion:240 Resp: 116907

Ion Ratio Lower Upper

240 100

120 20.0 9.4 14.0#

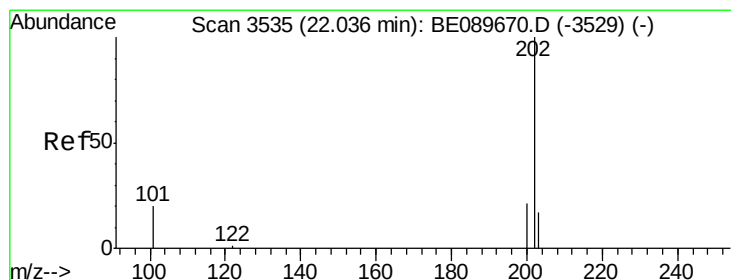
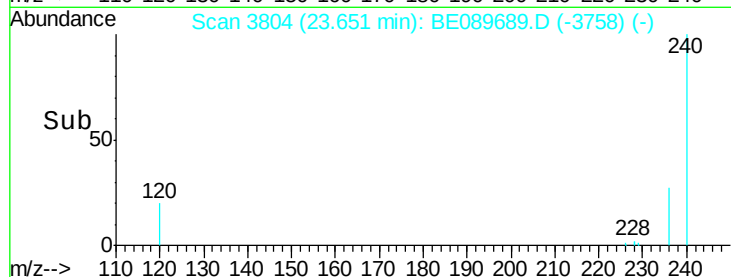
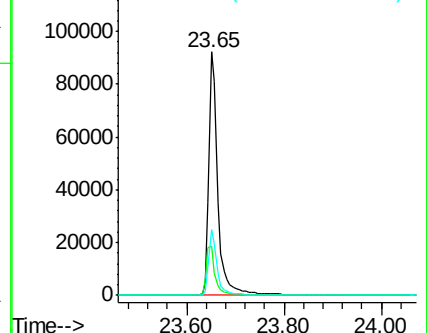
236 27.2 19.9 29.9



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



#20

Pyrene

Concen: 0.12 ng m

RT: 22.04 min Scan# 3533

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

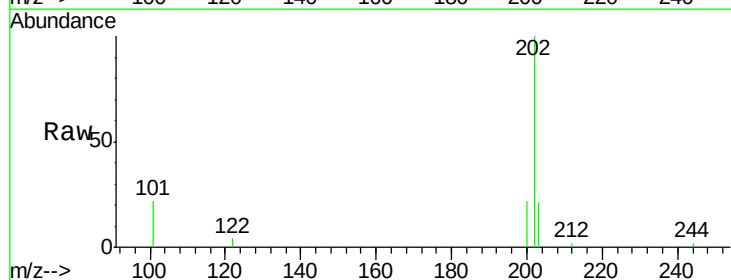
Tgt Ion:202 Resp: 3261

Ion Ratio Lower Upper

202 100

200 17.8 16.4 24.6

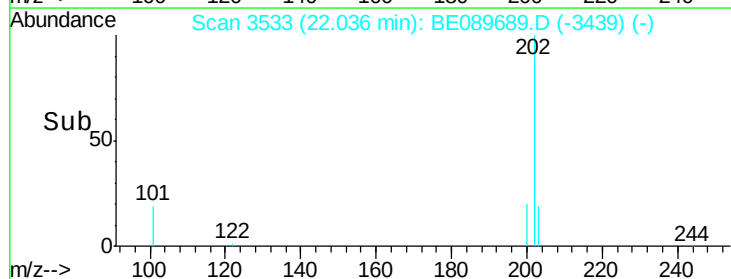
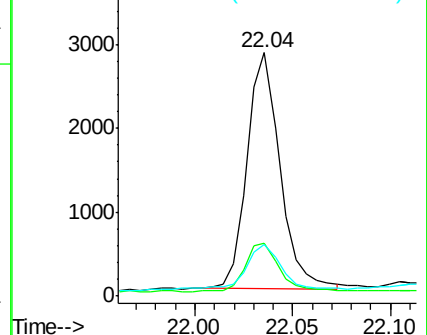
203 15.5 13.9 20.9

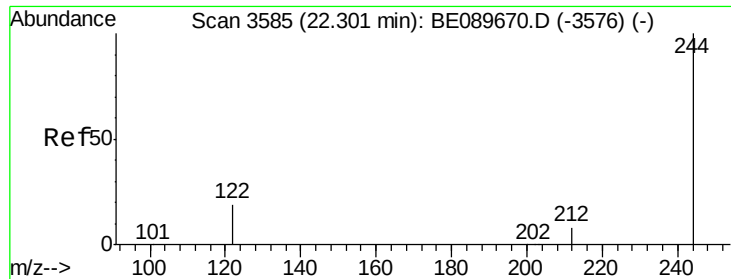


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.34 ng

RT: 22.30 min Scan# 3582

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

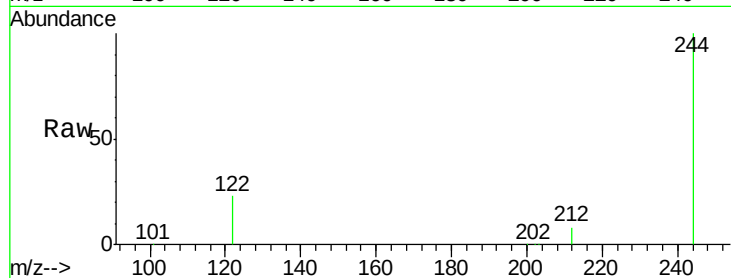
Tgt Ion:244 Resp: 155515

Ion Ratio Lower Upper

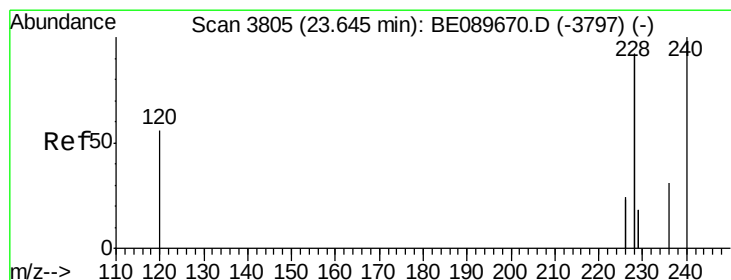
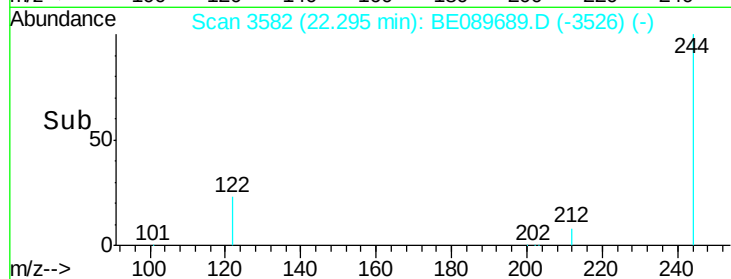
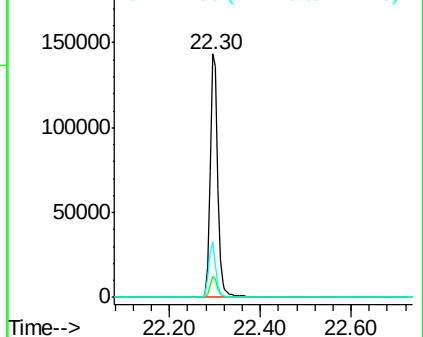
244 100

212 8.5 7.0 10.6

122 22.6 15.4 23.0



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



#22

Benzo(a)anthracene

Concen: 0.11 ng

RT: 23.64 min Scan# 3803

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

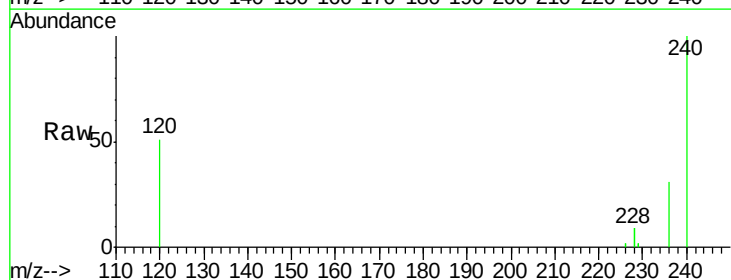
Tgt Ion:228 Resp: 8366

Ion Ratio Lower Upper

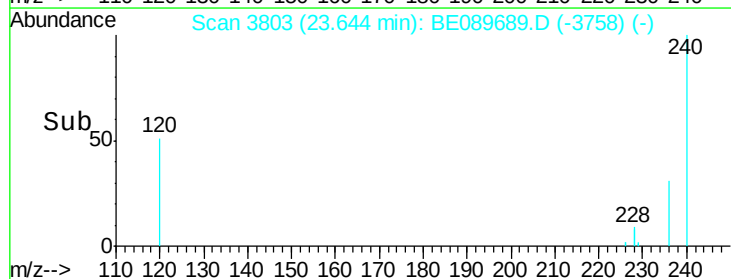
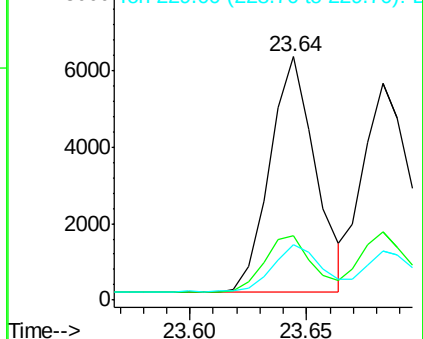
228 100

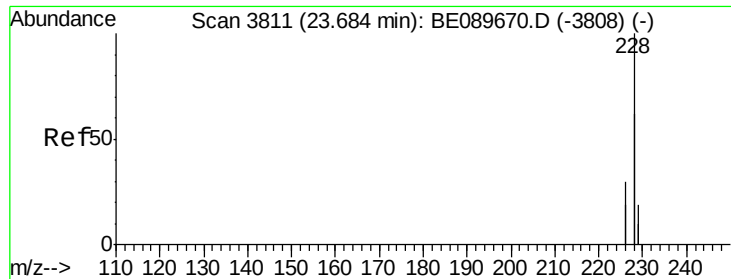
226 26.5 20.6 31.0

229 22.9 15.8 23.6



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





#23

Chrysene

Concen: 0.10 ng

RT: 23.68 min Scan# 3809

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

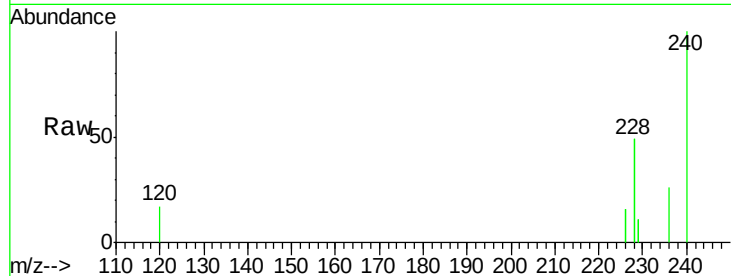
Tgt Ion:228 Resp: 10572

Ion Ratio Lower Upper

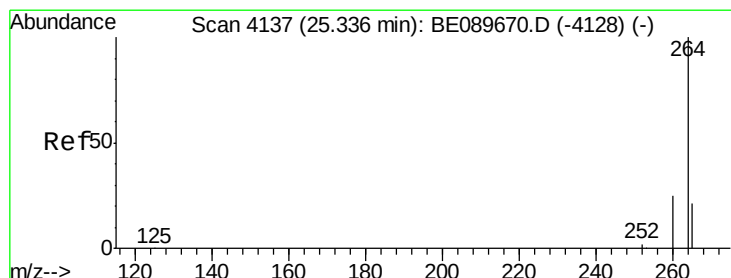
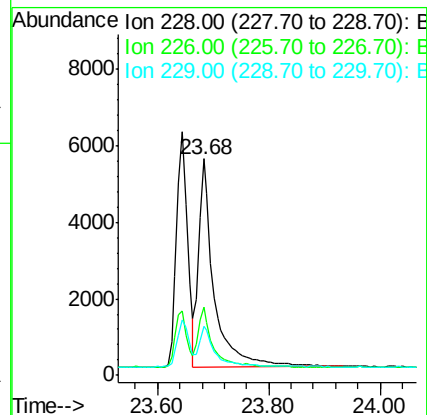
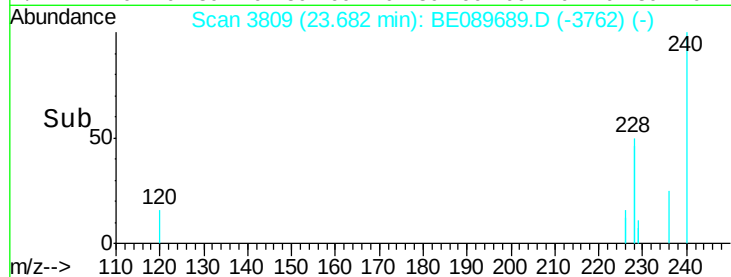
228 100

226 31.8 23.6 35.4

229 22.4 15.3 22.9



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



#25

Perylene-d12

Concen: 5.00 ng

RT: 25.34 min Scan# 4136

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

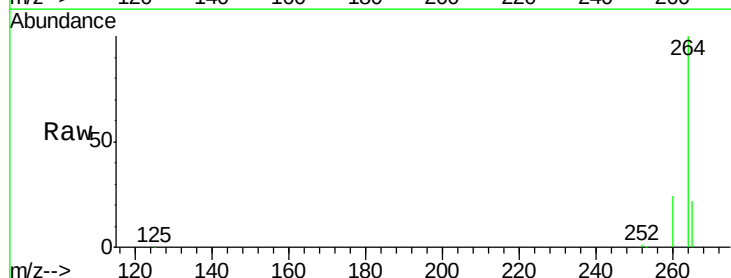
Tgt Ion:264 Resp: 99273

Ion Ratio Lower Upper

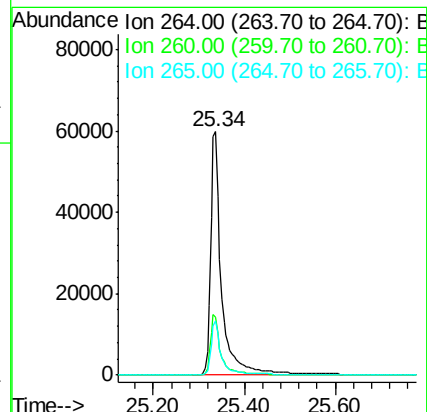
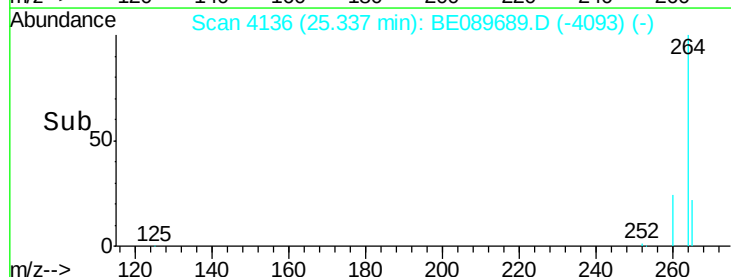
264 100

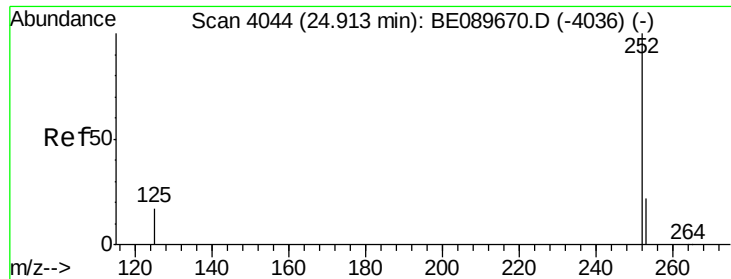
260 23.7 20.2 30.4

265 22.0 17.0 25.4



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





#26

Benzo(b)fluoranthene

Concen: 0.14 ng

RT: 24.91 min Scan# 4042

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

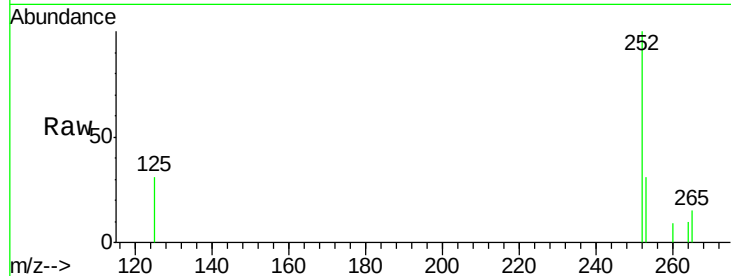
Tgt Ion:252 Resp: 660

Ion Ratio Lower Upper

252 100

253 30.6 18.6 27.8#

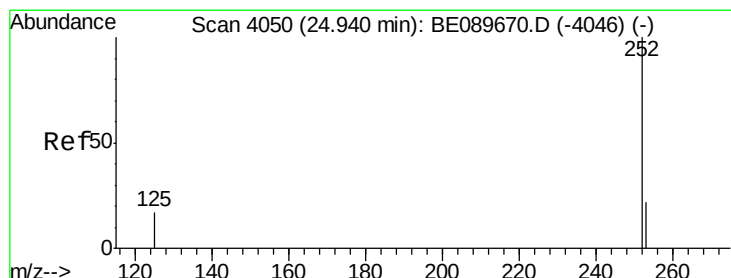
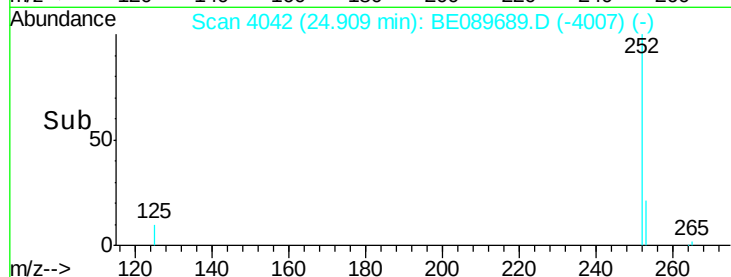
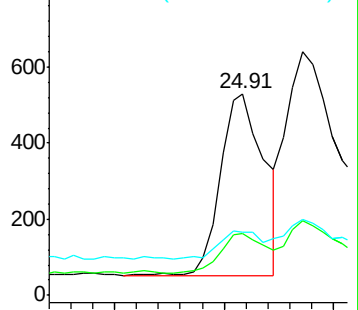
125 31.1 15.0 22.6#



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



#27

Benzo(k)fluoranthene

Concen: 0.13 ng m

RT: 24.94 min Scan# 4048

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

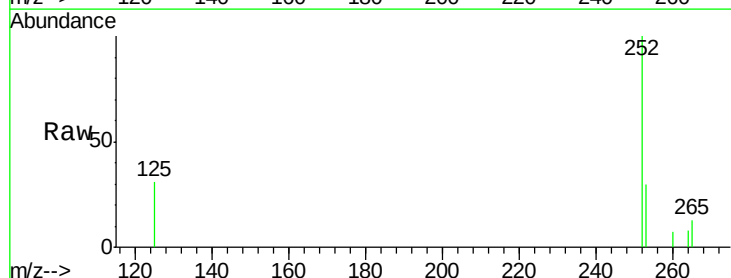
Tgt Ion:252 Resp: 1402

Ion Ratio Lower Upper

252 100

253 30.5 18.0 27.0#

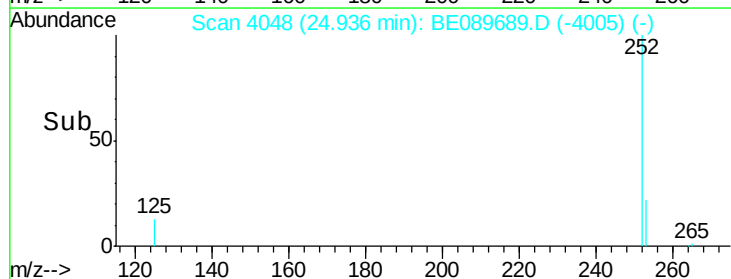
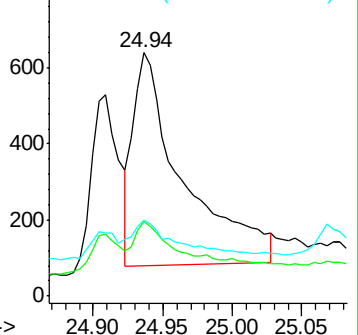
125 31.4 14.3 21.5#

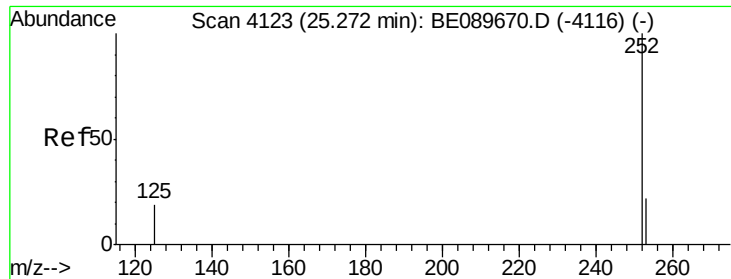


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#28

Benzo(a)pyrene

Concen: 0.12 ng

RT: 25.27 min Scan# 4121

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

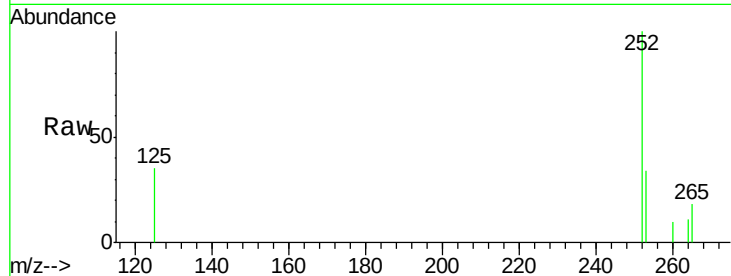
Tgt Ion: 252 Resp: 706

Ion Ratio Lower Upper

252 100

253 33.8 18.8 28.2#

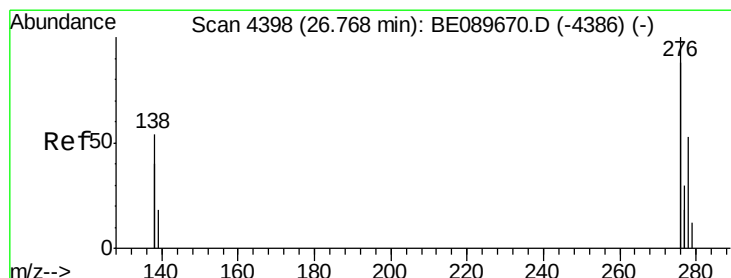
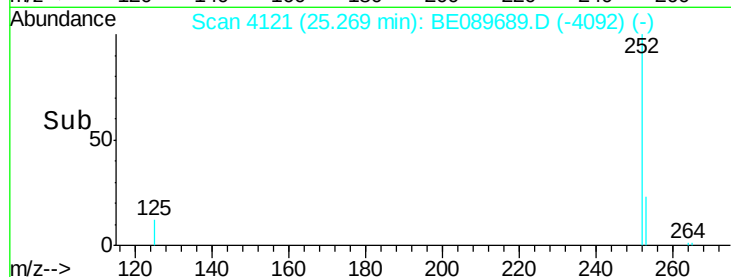
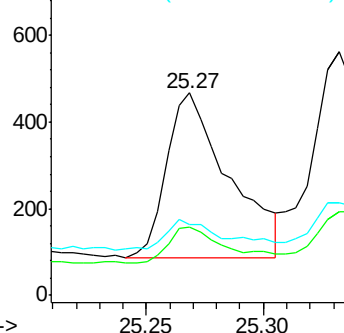
125 34.7 16.6 24.8#



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



#29

Dibenzo(a,h)anthracene

Concen: 0.18 ng

RT: 26.77 min Scan# 4396

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

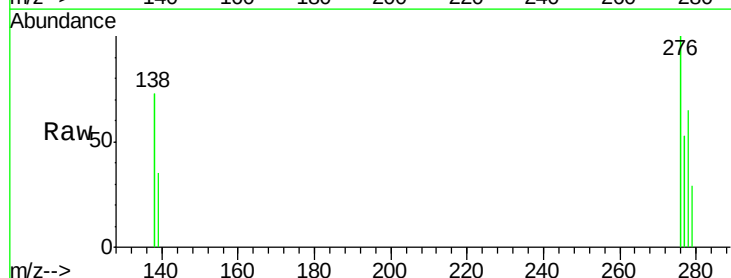
Tgt Ion: 278 Resp: 516

Ion Ratio Lower Upper

278 100

139 54.1 30.4 45.6#

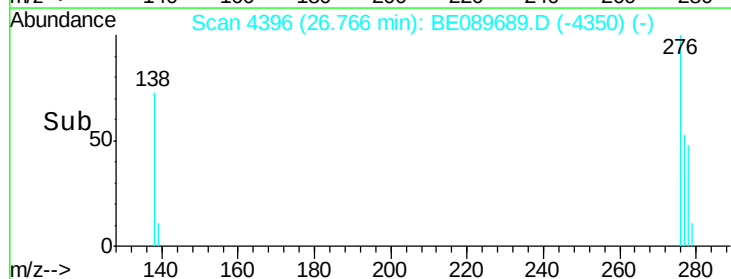
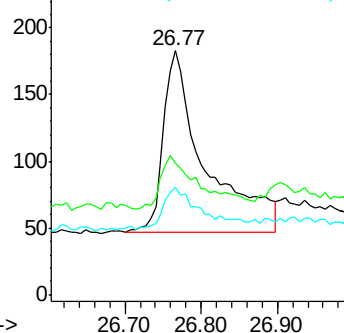
279 43.7 22.0 33.0#

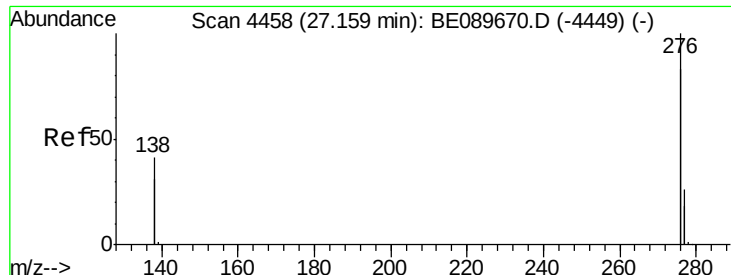


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Benzo(g,h,i)perylene

Concen: 0.17 ng

RT: 27.15 min Scan# 4455

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

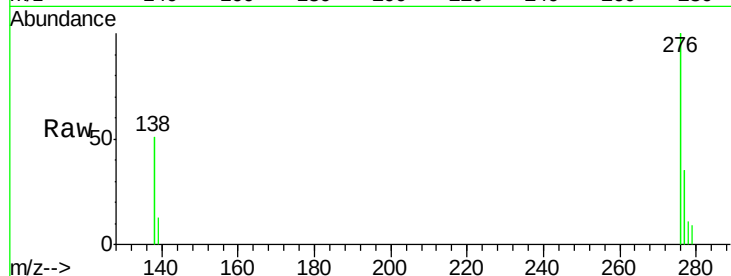
Tgt Ion: 276 Resp: 3687

Ion Ratio Lower Upper

276 100

277 34.9 21.0 31.6#

138 50.7 33.0 49.4#



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

