

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022515\
 Data File : BE089687.D
 Acq On : 25 Feb 2015 19:32
 Operator : TP/JJ
 Sample : PB81861BL
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BL

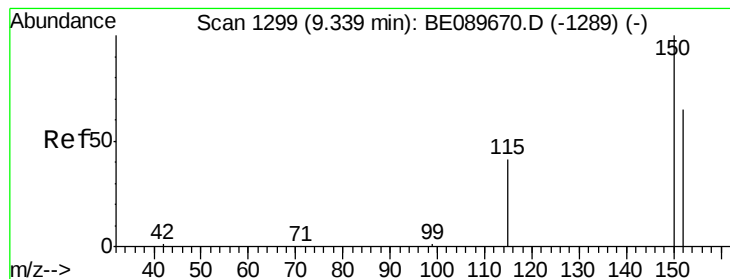
Quant Time: Feb 26 00:16:44 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 26 00:03:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	37583	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	175759	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	77850	5.00	ng	0.00
13) Phenanthrene-d10	19.76	188	116830	5.00	ng	0.00
19) Chrysene-d12	23.65	240	69237	5.00	ng	0.00
25) Perylene-d12	25.34	264	55850	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	80238	7.71	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	156858	9.06	ng	0.00
21) Terphenyl-d14	22.30	244	90870	11.19	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	2.67	88	812	0.17	ng	92
3) n-Nitrosodimethylamine	3.40	42	1362	0.29	ng	# 92
6) Naphthalene	12.29	128	22656	0.67	ng	99
7) 2-Methylnaphthalene	13.94	142	15802	0.82	ng	97
10) Acenaphthylene	16.06	152	97223	0.87	ng	100
11) Acenaphthene	16.49	154	15714	0.89	ng	99
12) Fluorene	17.74	166	17320	0.88	ng	100
14) Hexachlorobenzene	18.99	284	2970	0.98	ng	97
15) Pentachlorophenol	19.43	266	792	2.15	ng	97
16) Phenanthrene	19.81	178	22947	0.92	ng	100
17) Anthracene	19.90	178	19912	0.94	ng	99
18) Fluoranthene	21.72	202	16145	0.78	ng	100
20) Pyrene	22.04	202	17155	1.03	ng	100
22) Benzo(a)anthracene	23.64	228	41576	0.91	ng	99
23) Chrysene	23.68	228	62435	0.99	ng	100
24) Indeno(1,2,3-cd)pyrene	26.73	276	23304	1.21	ng	# 50
26) Benzo(b)fluoranthene	24.91	252	4051	1.13	ng	99
27) Benzo(k)fluoranthene	24.94	252	13236m	1.01	ng	
28) Benzo(a)pyrene	25.27	252	5077	1.13	ng	99
29) Dibenzo(a,h)anthracene	26.77	278	4272	1.20	ng	94
30) Benzo(g,h,i)perylene	27.15	276	27727	1.12	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. 0.00 min

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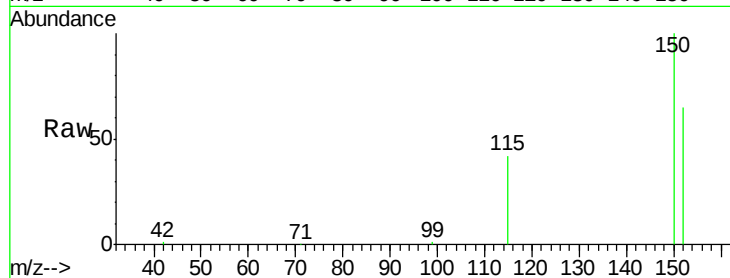
Tgt Ion: 152 Resp: 37583

Ion Ratio Lower Upper

152 100

150 154.7 123.4 185.0

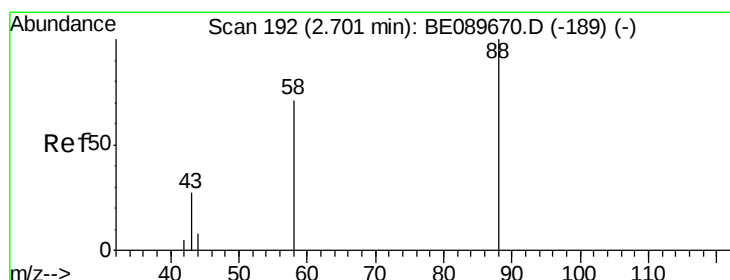
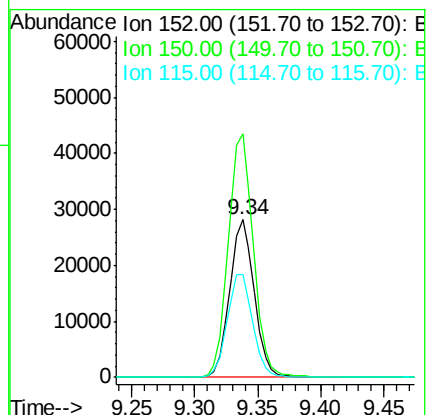
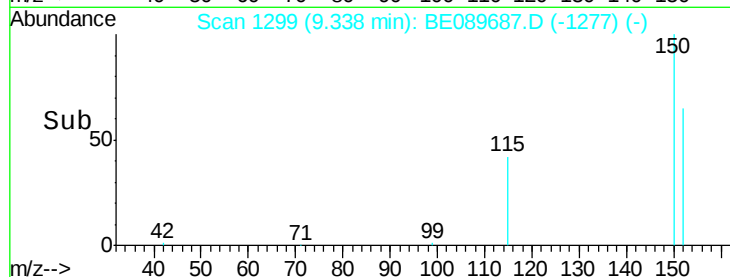
115 65.1 50.8 76.2



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



#2

1,4-Dioxane

Concen: 0.17 ng

RT: 2.67 min Scan# 187

Delta R.T. 0.05 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

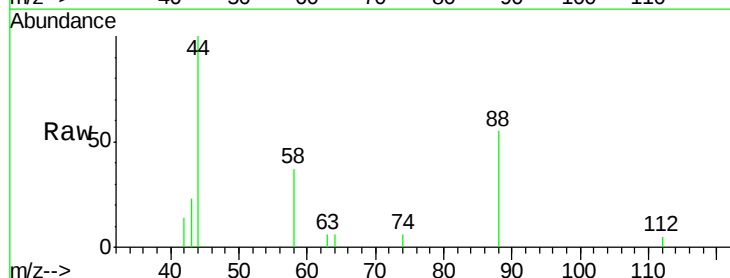
Tgt Ion: 88 Resp: 812

Ion Ratio Lower Upper

88 100

58 86.3 62.4 93.6

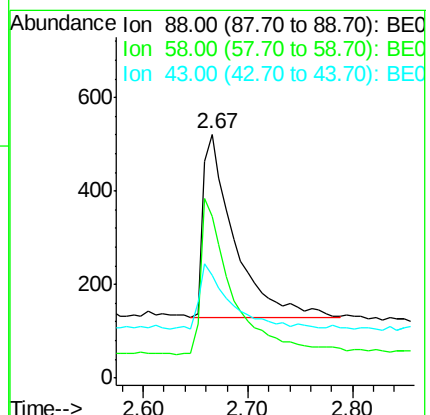
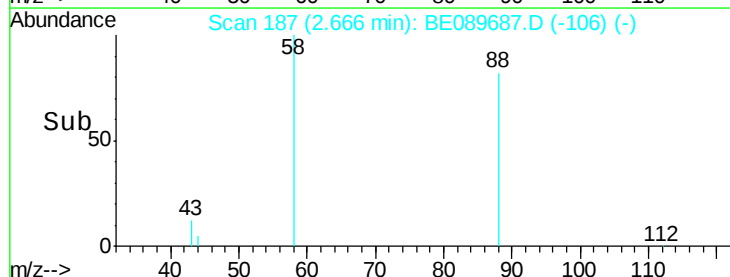
43 34.9 26.6 40.0

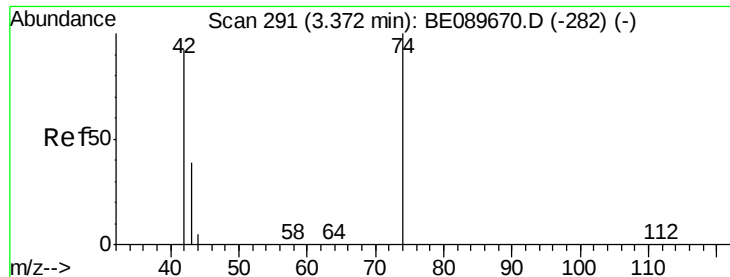


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



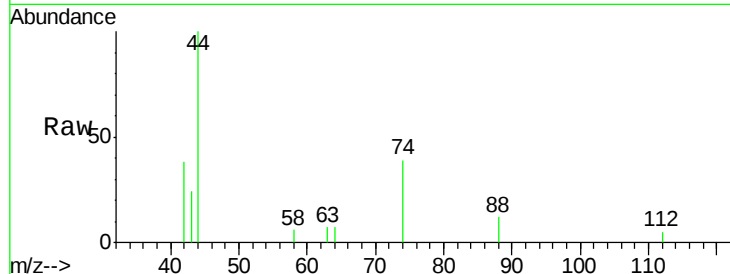


#3

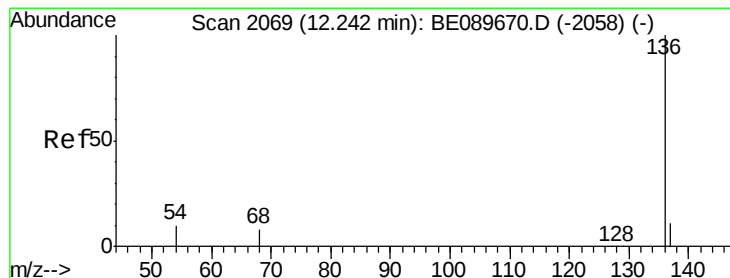
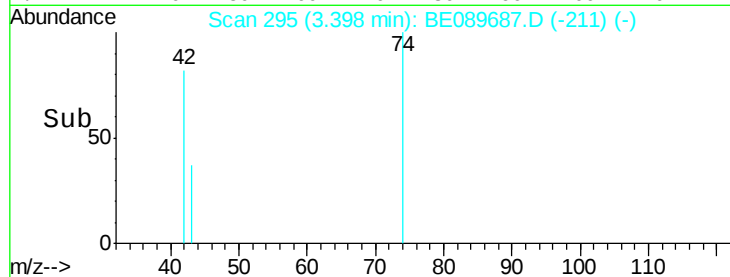
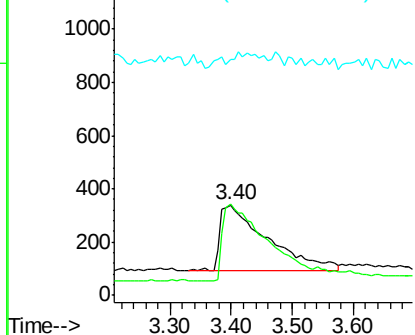
n-Nitrosodimethylamine
 Concen: 0.29 ng
 RT: 3.40 min Scan# 295
 Delta R.T. 0.07 min
 Lab File: BE089687.D
 Acq: 25 Feb 2015 19:32

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BL

Tgt Ion: 42 Resp: 1362
 Ion Ratio Lower Upper
 42 100
 74 123.1 91.1 136.7
 44 3.4 4.7 7.1#



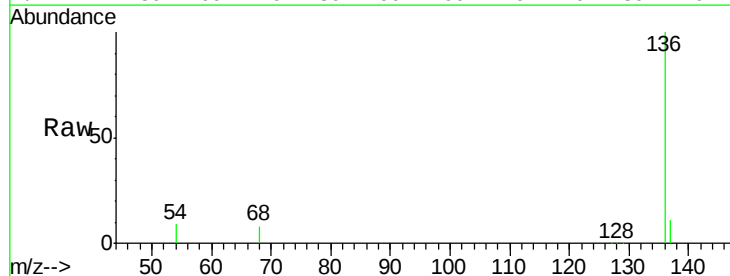
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



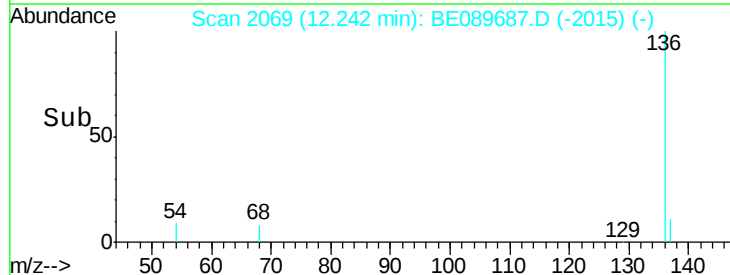
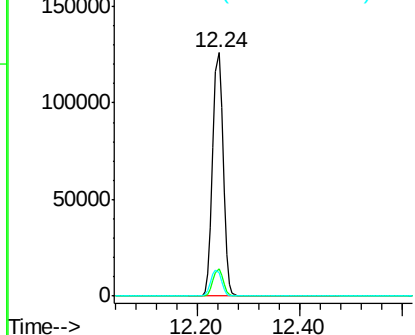
#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. 0.00 min
 Lab File: BE089687.D
 Acq: 25 Feb 2015 19:32

Tgt Ion: 136 Resp: 175759
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.7 13.1
 54 9.5 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: 7.71 ng

RT: 10.60 min Scan# 1666

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

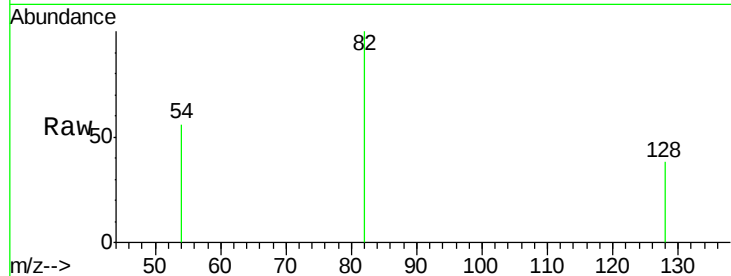
Tgt Ion: 82 Resp: 80238

Ion Ratio Lower Upper

82 100

128 38.3 30.6 46.0

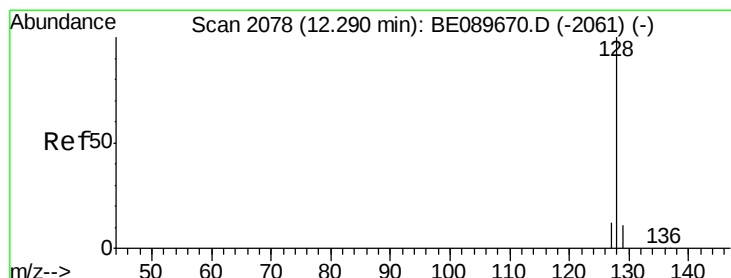
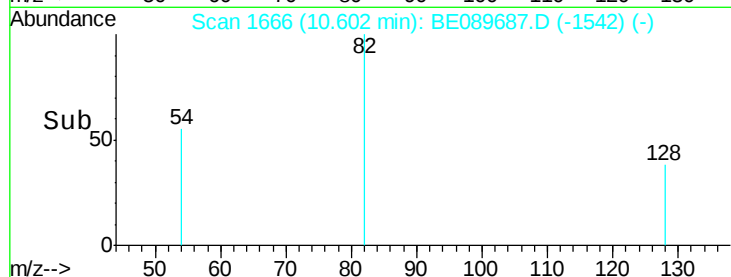
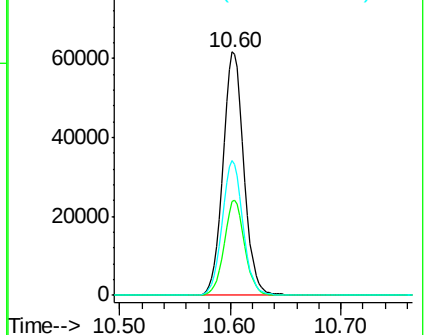
54 55.6 43.6 65.4



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



#6

Naphthalene

Concen: 0.67 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

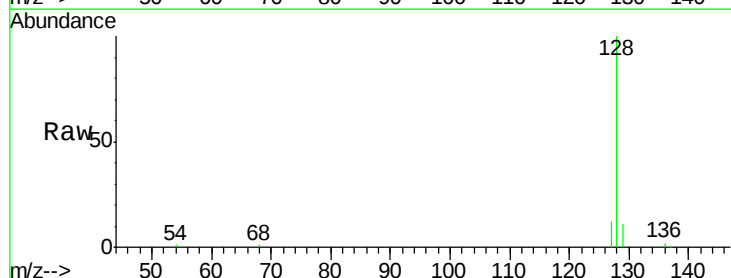
Tgt Ion: 128 Resp: 22656

Ion Ratio Lower Upper

128 100

129 11.4 8.9 13.3

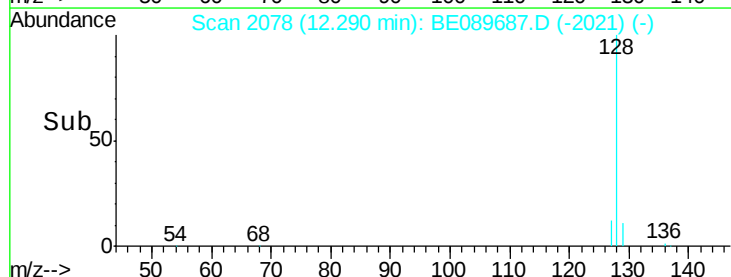
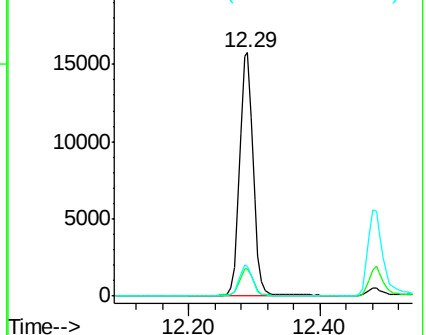
127 12.4 9.7 14.5



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





#7

2-Methylnaphthalene

Concen: 0.82 ng

RT: 13.94 min Scan# 2416

Delta R.T. 0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

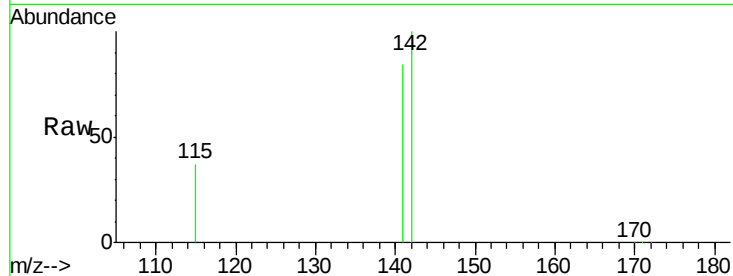
Tgt Ion:142 Resp: 15802

Ion Ratio Lower Upper

142 100

141 84.1 66.0 99.0

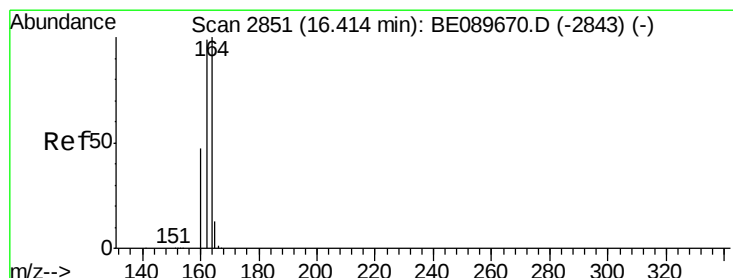
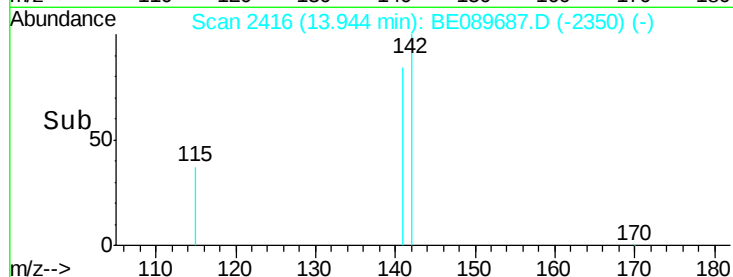
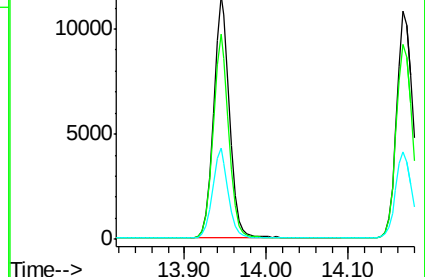
115 37.3 27.4 41.0



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# 2851

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

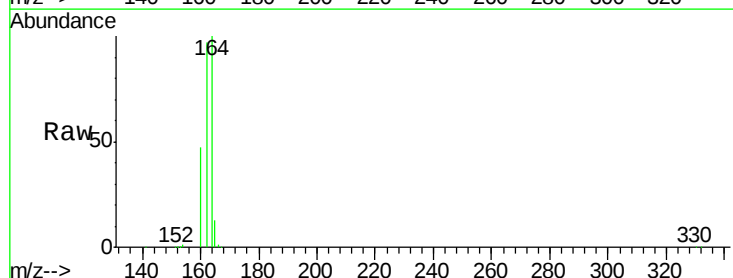
Tgt Ion:164 Resp: 77850

Ion Ratio Lower Upper

164 100

162 97.1 79.4 119.2

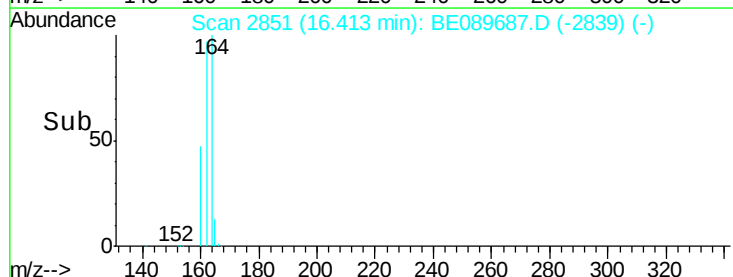
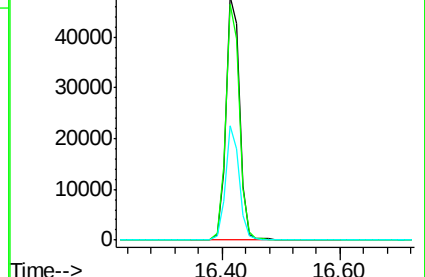
160 46.8 37.6 56.4



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

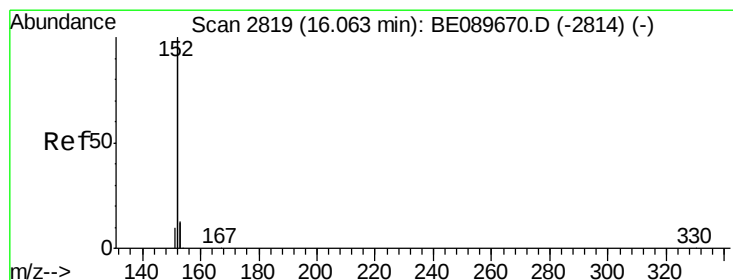
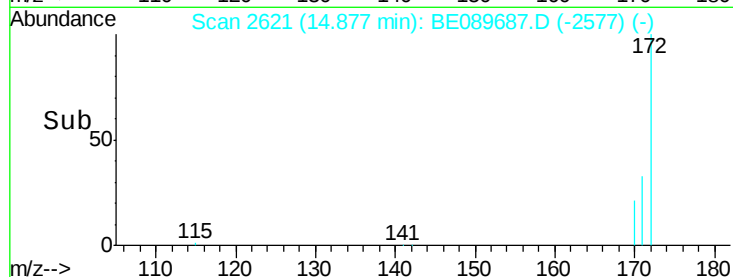
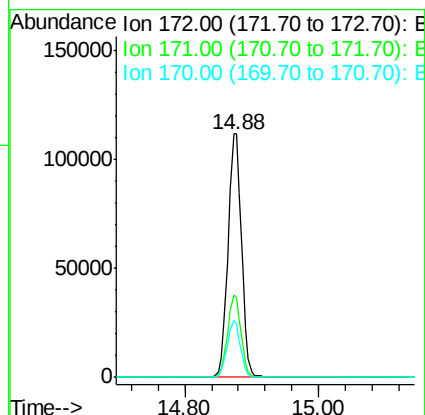
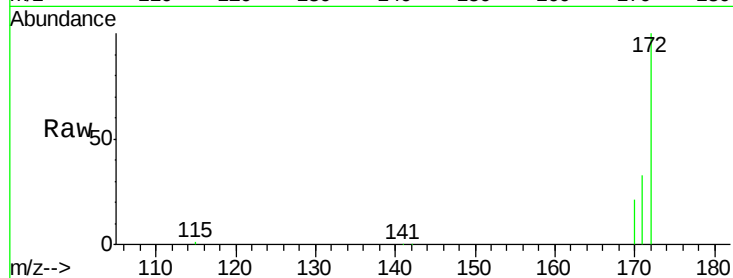




#9
 2-Fluorobiphenyl
 Concen: 9.06 ng
 RT: 14.88 min Scan# 2621
 Delta R.T. 0.00 min
 Lab File: BE089687.D
 Acq: 25 Feb 2015 19:32

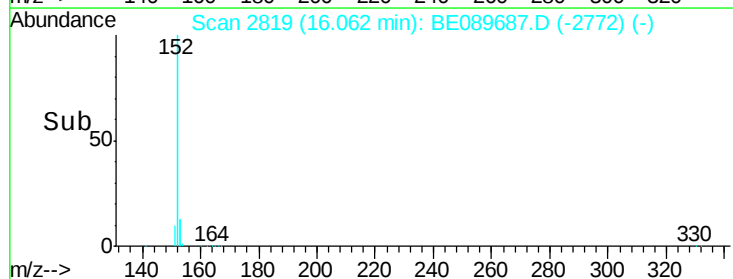
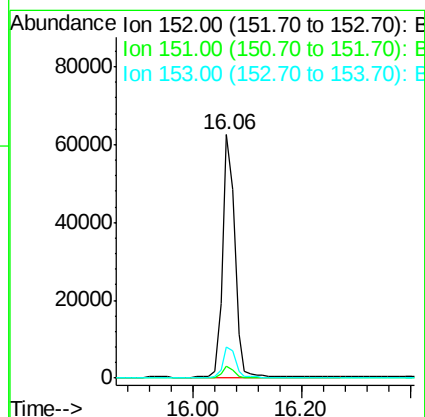
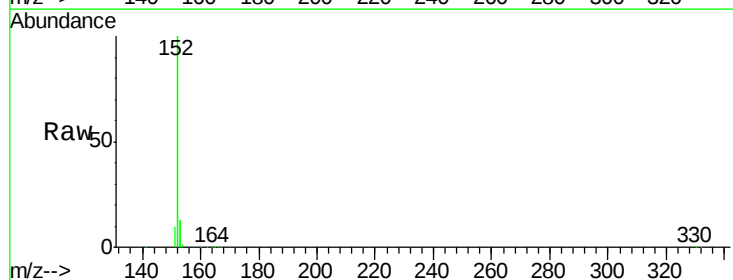
Instrument :
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 ClientSampleId :
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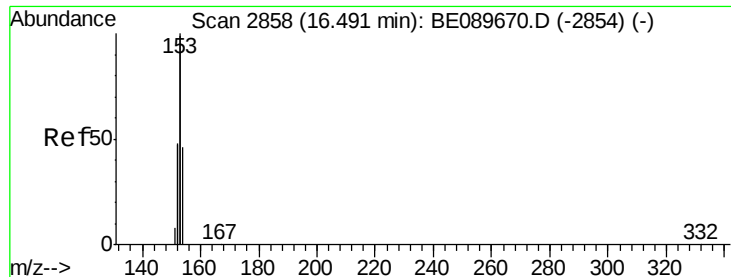
Tgt Ion:172 Resp: 156858
 Ion Ratio Lower Upper
 172 100
 171 32.7 27.3 40.9
 170 21.5 18.5 27.7



#10
 Acenaphthylene
 Concen: 0.87 ng
 RT: 16.06 min Scan# 2819
 Delta R.T. -0.00 min
 Lab File: BE089687.D
 Acq: 25 Feb 2015 19:32

Tgt Ion:152 Resp: 97223
 Ion Ratio Lower Upper
 152 100
 151 4.7 3.8 5.6
 153 12.9 10.4 15.6





#11

Acenaphthene

Concen: 0.89 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

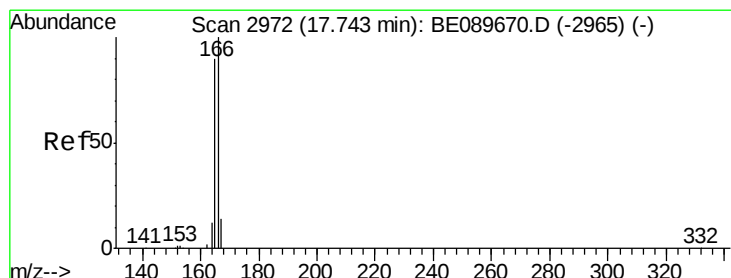
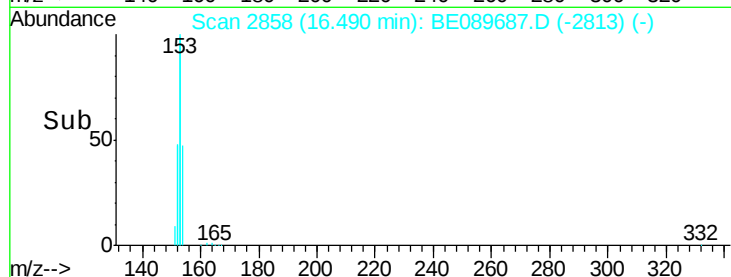
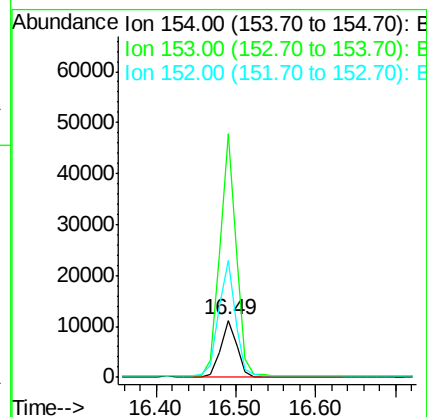
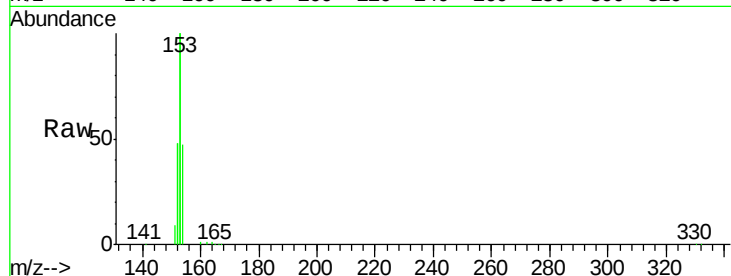
Tgt Ion:154 Resp: 15714

Ion Ratio Lower Upper

154 100

153 430.5 345.8 518.8

152 208.4 168.6 252.8



#12

Fluorene

Concen: 0.88 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

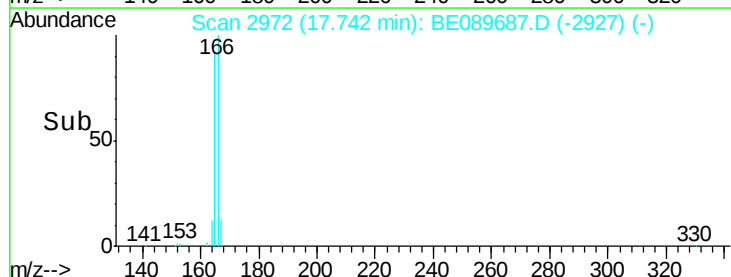
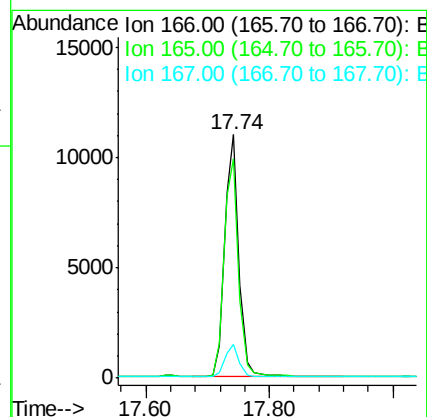
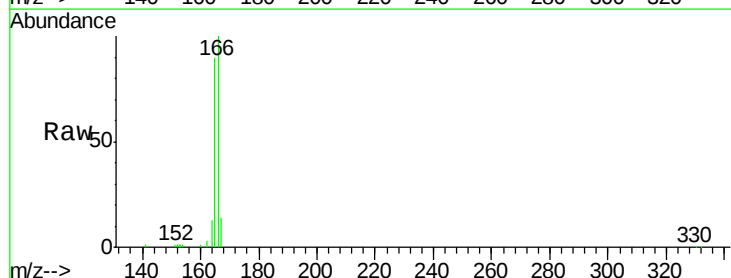
Tgt Ion:166 Resp: 17320

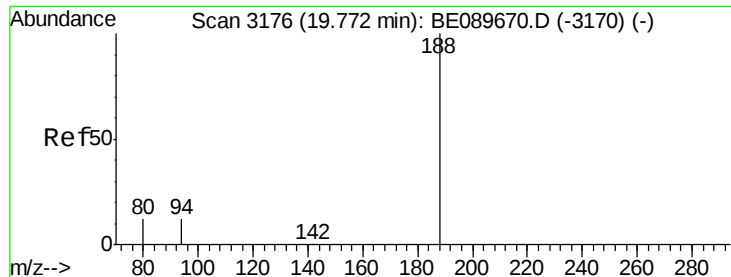
Ion Ratio Lower Upper

166 100

165 92.1 73.6 110.4

167 13.2 10.6 16.0

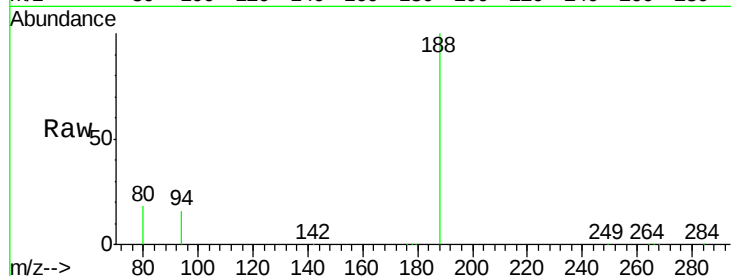




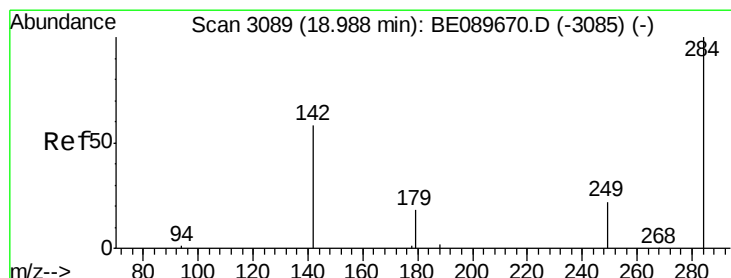
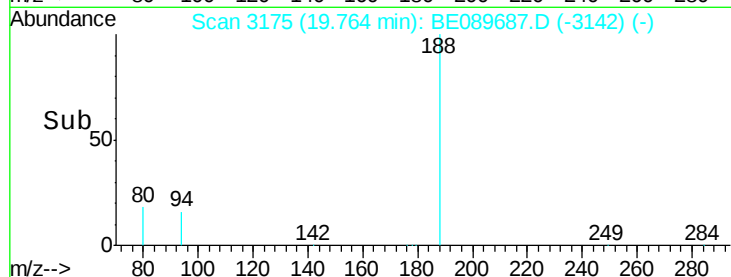
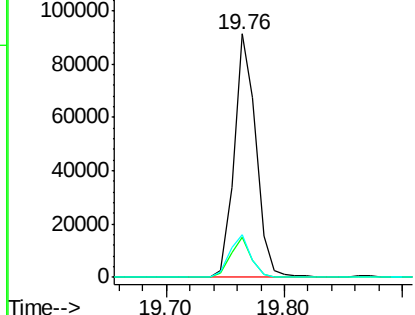
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3175
Delta R.T. 0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 19:32

Instrument :
BNA_E
ClientSampleId :
PB81861BL

Tgt Ion:188 Resp: 116830
Ion Ratio Lower Upper
188 100
94 16.4 9.4 14.2#
80 17.6 9.5 14.3#

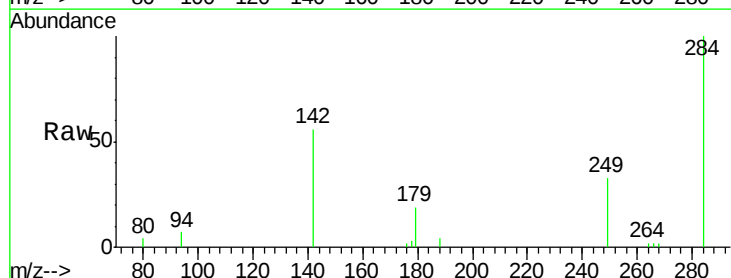


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

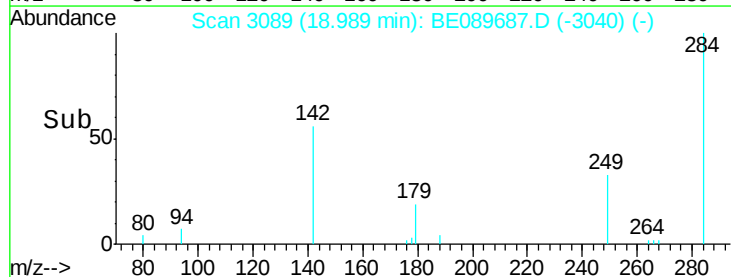
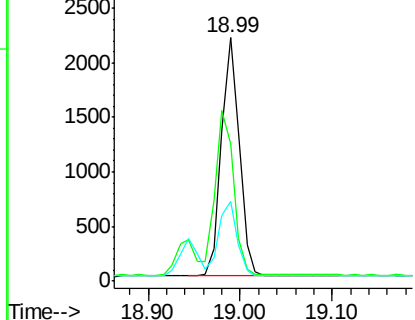


#14
Hexachlorobenzene
Concen: 0.98 ng
RT: 18.99 min Scan# 3089
Delta R.T. 0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 19:32

Tgt Ion:284 Resp: 2970
Ion Ratio Lower Upper
284 100
142 71.5 55.4 83.2
249 32.2 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 2.15 ng

RT: 19.43 min Scan# 3138

Delta R.T. 0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

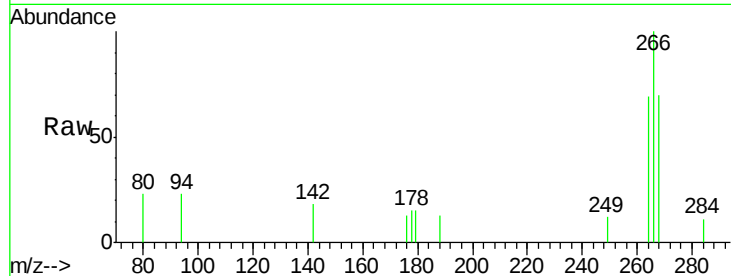
Tgt Ion:266 Resp: 792

Ion Ratio Lower Upper

266 100

268 69.7 56.3 84.5

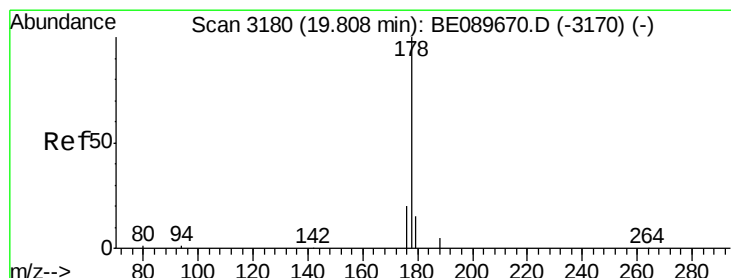
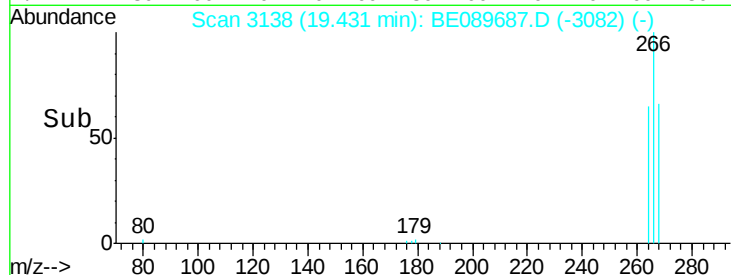
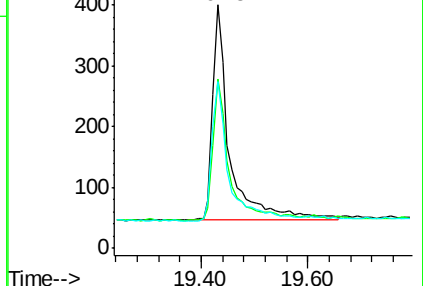
264 68.8 51.8 77.8



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



#16

Phenanthrene

Concen: 0.92 ng

RT: 19.81 min Scan# 3180

Delta R.T. 0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

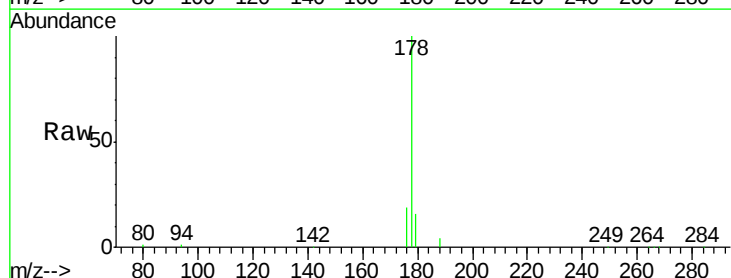
Tgt Ion:178 Resp: 22947

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

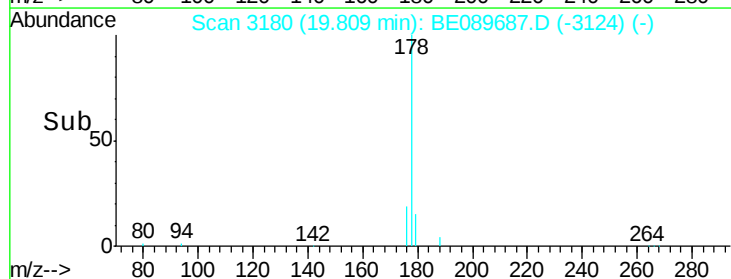
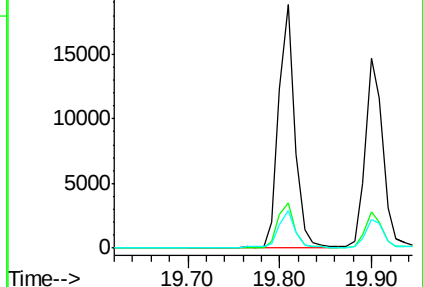
179 15.6 12.5 18.7

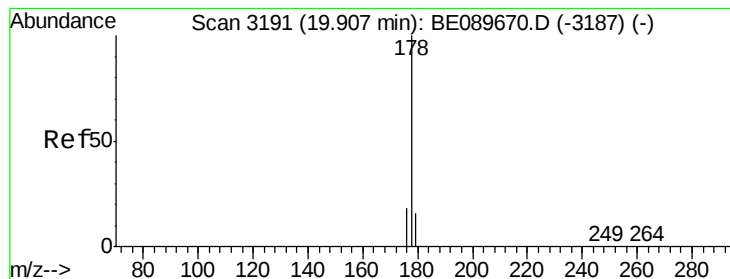


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.94 ng

RT: 19.90 min Scan# 3190

Delta R.T. -0.01 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

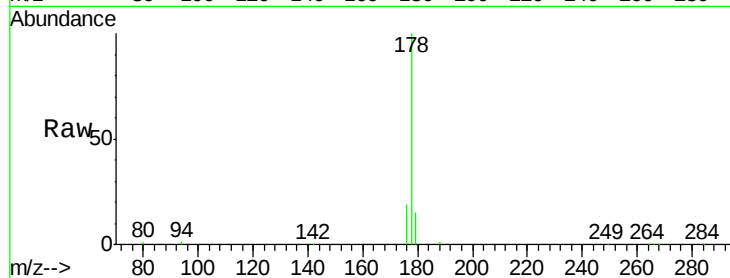
Tgt Ion:178 Resp: 19912

Ion Ratio Lower Upper

178 100

176 18.1 14.8 22.2

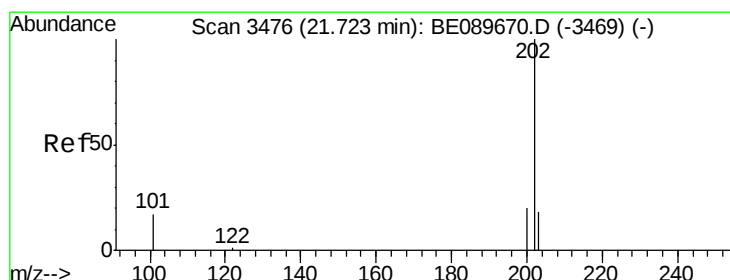
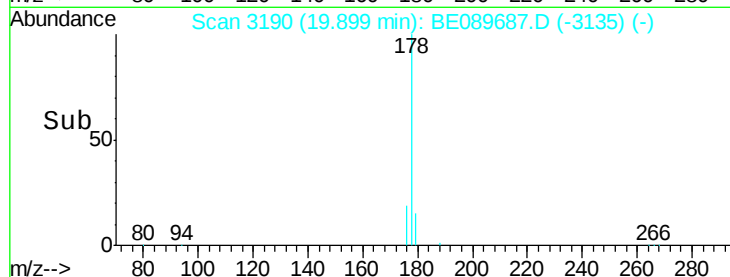
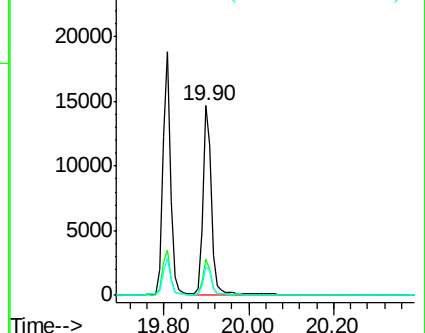
179 14.7 12.2 18.2



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



#18

Fluoranthene

Concen: 0.78 ng

RT: 21.72 min Scan# 3474

Delta R.T. -0.01 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

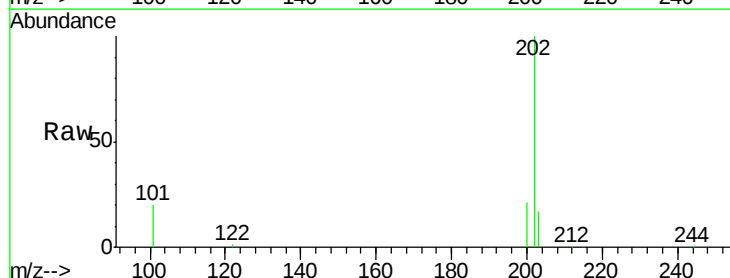
Tgt Ion:202 Resp: 16145

Ion Ratio Lower Upper

202 100

101 18.3 14.9 22.3

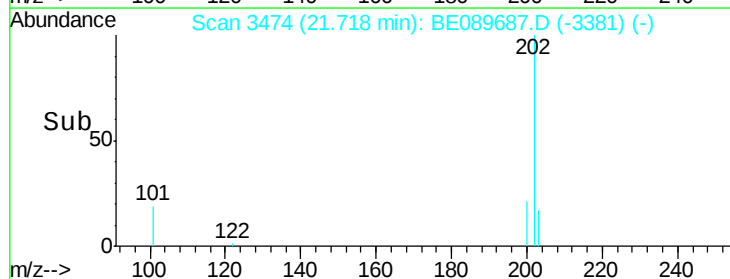
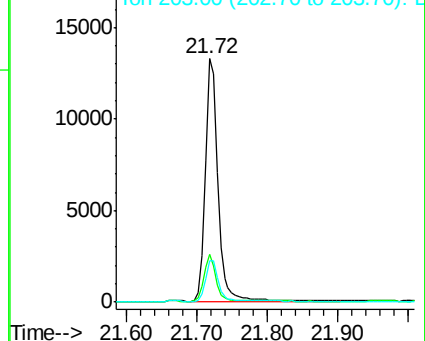
203 17.1 13.8 20.6

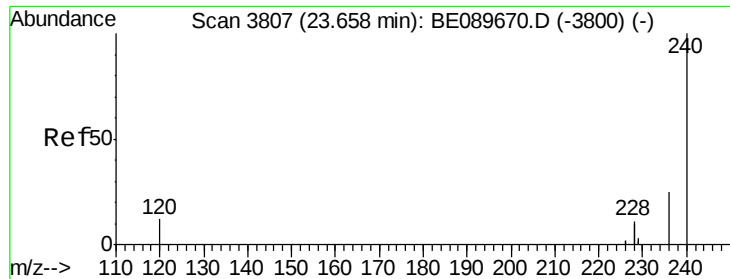


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

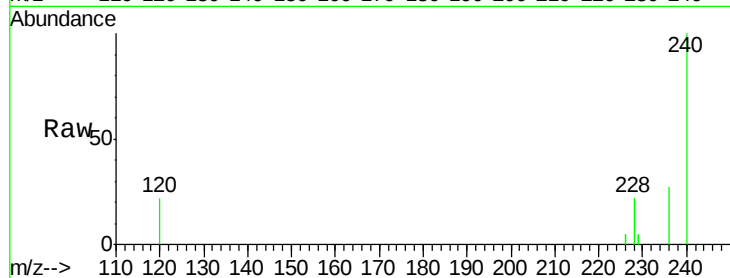
Tgt Ion:240 Resp: 69237

Ion Ratio Lower Upper

240 100

120 21.9 9.4 14.0#

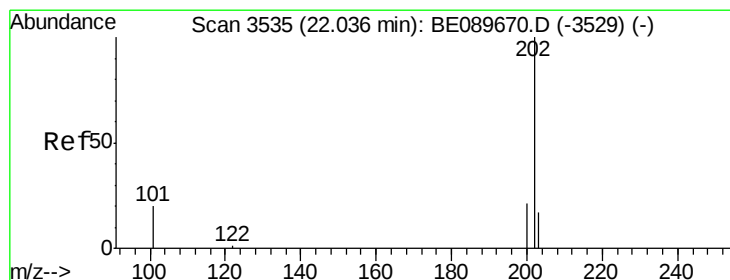
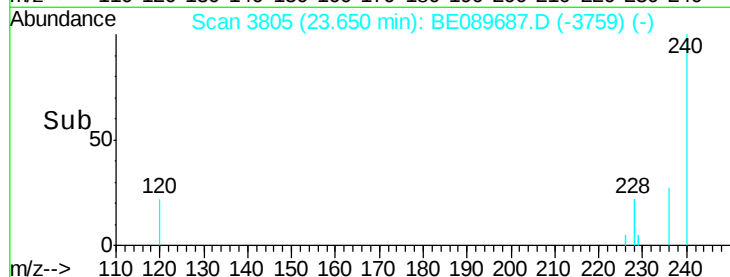
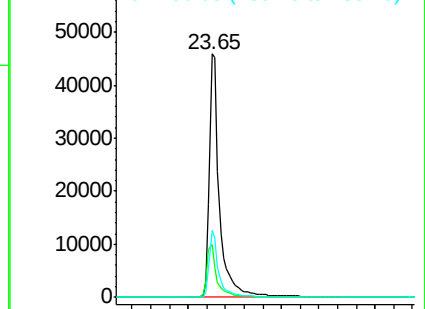
236 27.5 19.9 29.9



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: 1.03 ng

RT: 22.04 min Scan# 3534

Delta R.T. 0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

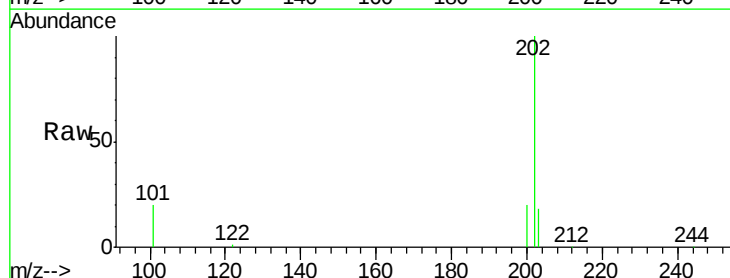
Tgt Ion:202 Resp: 17155

Ion Ratio Lower Upper

202 100

200 20.4 16.4 24.6

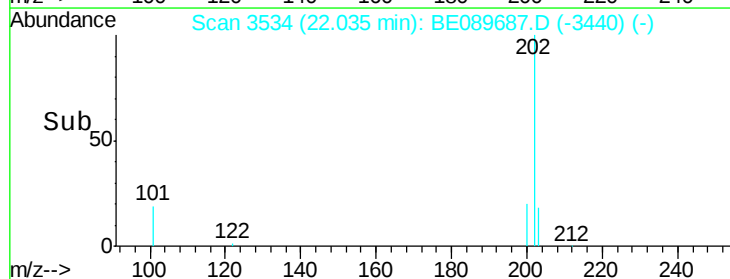
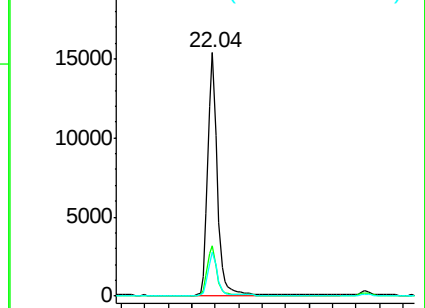
203 17.5 13.9 20.9



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: 11.19 ng

RT: 22.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

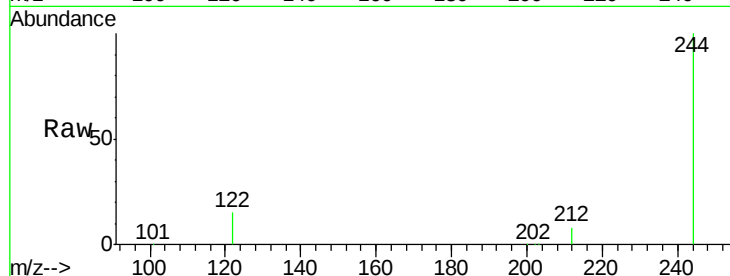
Tgt Ion:244 Resp: 90870

Ion Ratio Lower Upper

244 100

212 7.9 7.0 10.6

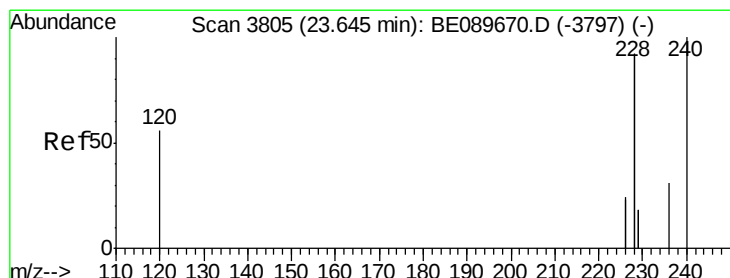
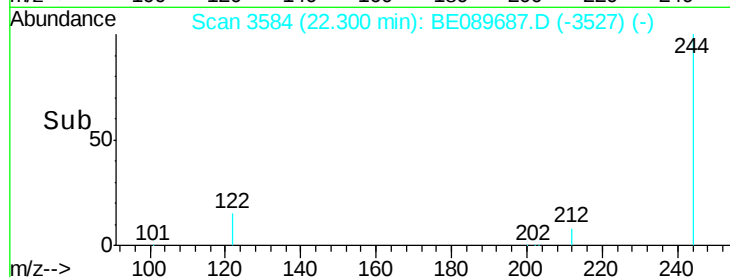
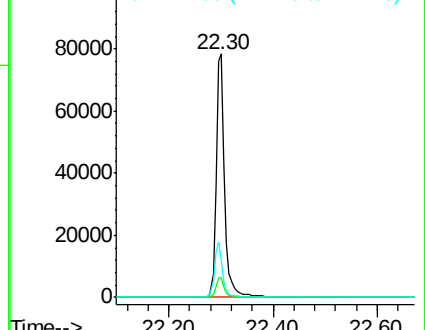
122 15.4 15.4 23.0



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: 0.91 ng

RT: 23.64 min Scan# 3804

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

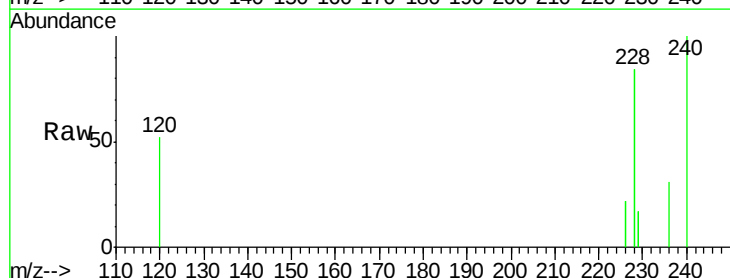
Tgt Ion:228 Resp: 41576

Ion Ratio Lower Upper

228 100

226 25.6 20.6 31.0

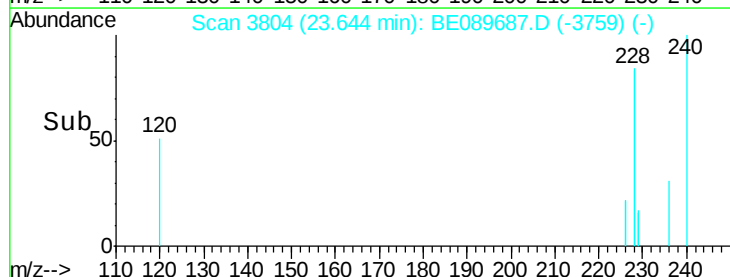
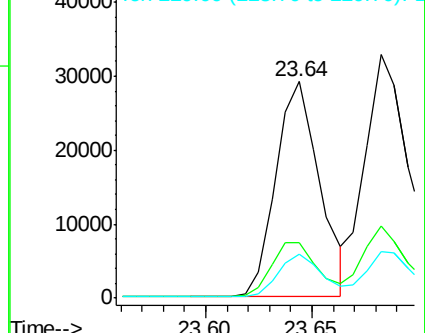
229 20.3 15.8 23.6



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: 0.99 ng

RT: 23.68 min Scan# 3810

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

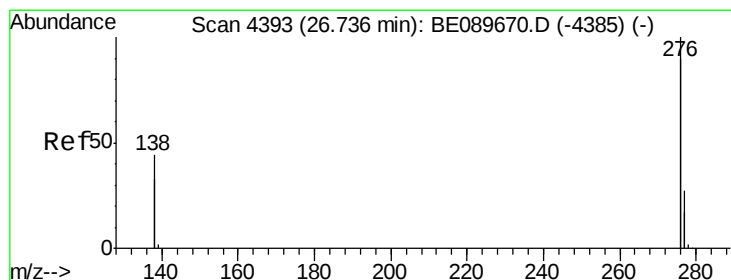
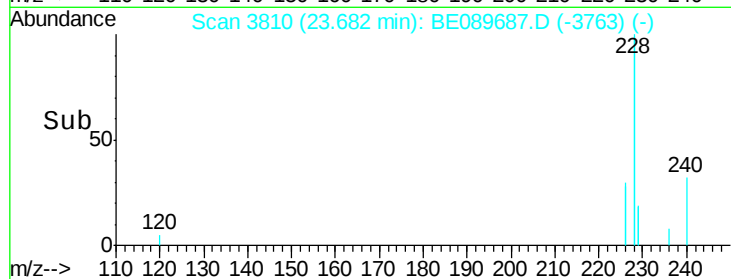
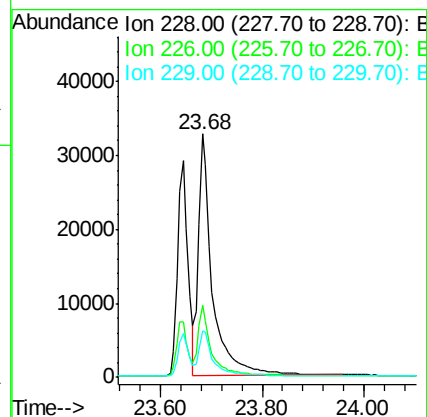
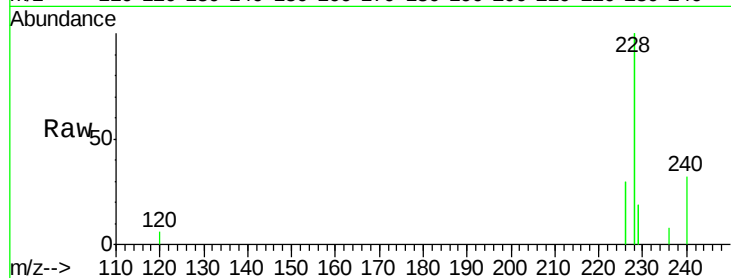
Tgt Ion:228 Resp: 62435

Ion Ratio Lower Upper

228 100

226 29.6 23.6 35.4

229 19.0 15.3 22.9



#24

Indeno(1,2,3-cd)pyrene

Concen: 1.21 ng

RT: 26.73 min Scan# 4392

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

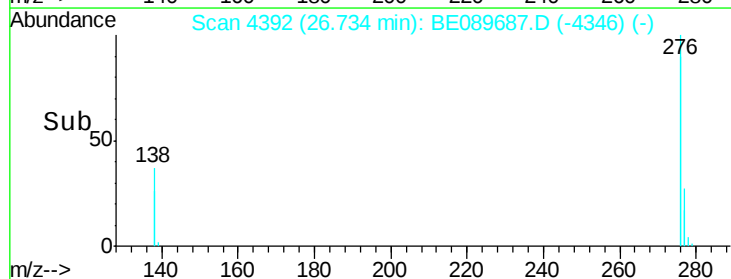
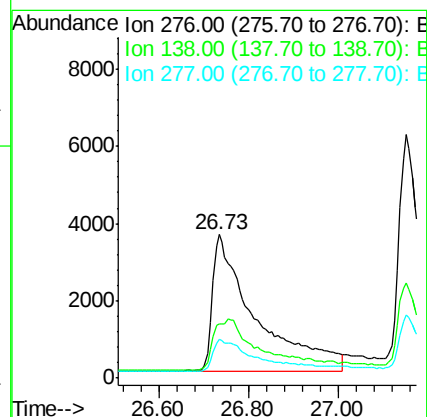
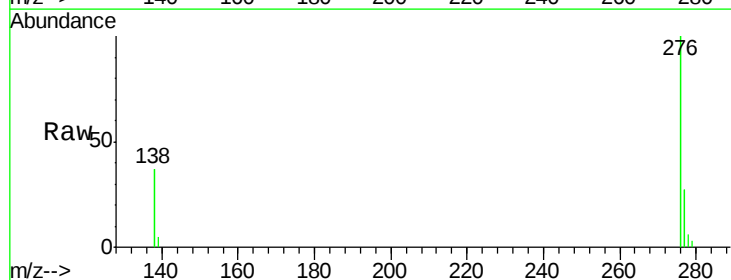
Tgt Ion:276 Resp: 23304

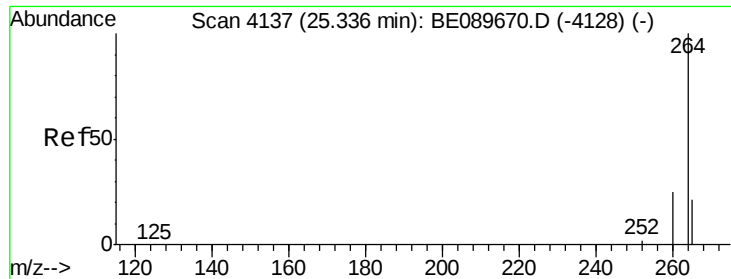
Ion Ratio Lower Upper

276 100

138 42.7 0.0 0.0#

277 23.4 5.2 7.8#



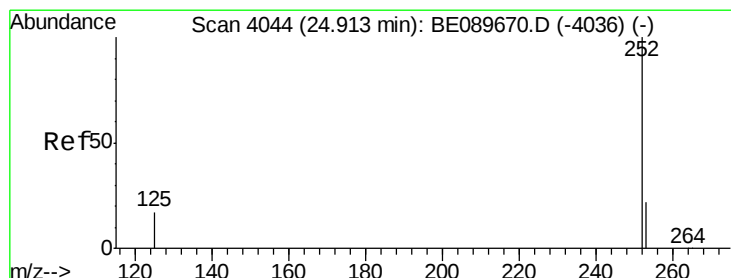
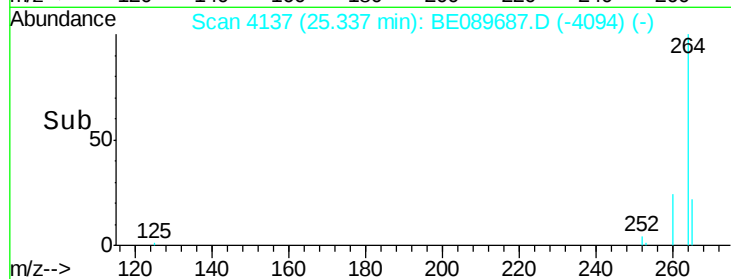
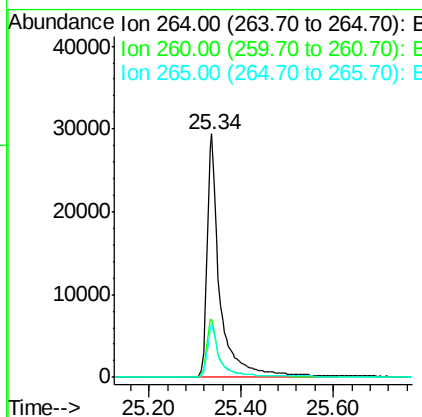
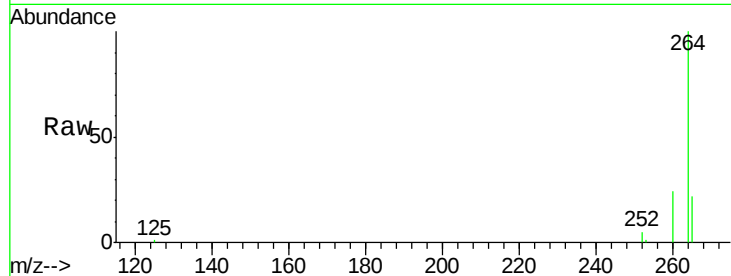


#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4137
Delta R.T. 0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 19:32

Instrument :
BNA_E
ClientSampleId :
PB81861BL

Tgt Ion: 264 Resp: 55850

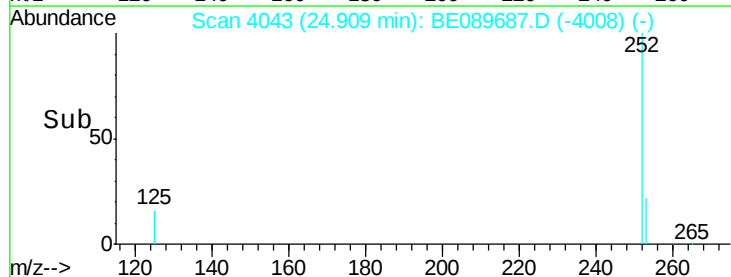
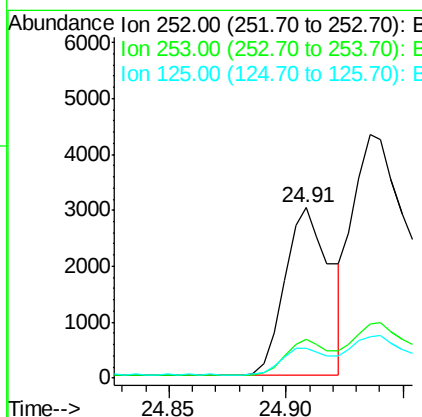
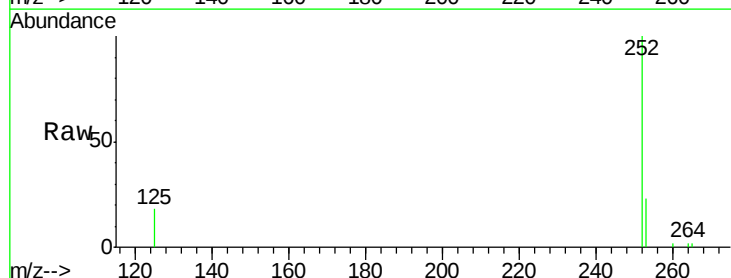
Ion	Ratio	Lower	Upper
264	100		
260	24.0	20.2	30.4
265	21.8	17.0	25.4

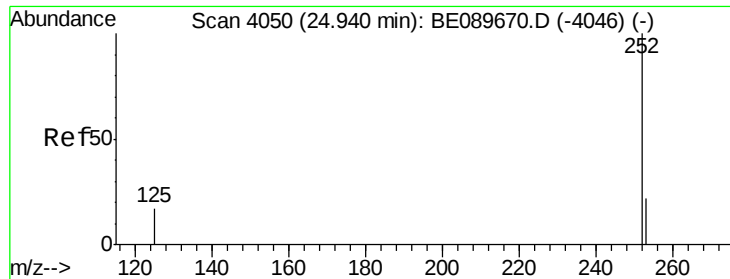


#26
Benzo(b)fluoranthene
Concen: 1.13 ng
RT: 24.91 min Scan# 4043
Delta R.T. 0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 19:32

Tgt Ion: 252 Resp: 4051

Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.6	27.8
125	17.7	15.0	22.6





#27

Benzo(k)fluoranthene

Concen: 1.01 ng m

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

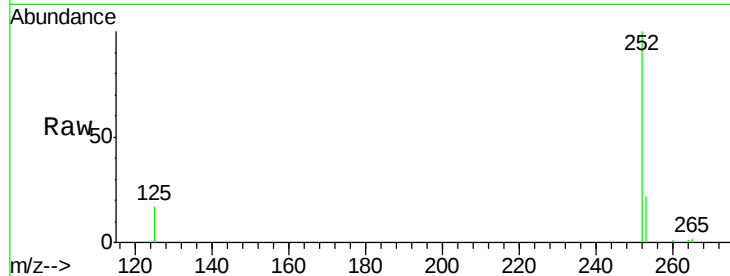
Tgt Ion:252 Resp: 13236

Ion Ratio Lower Upper

252 100

253 22.2 18.0 27.0

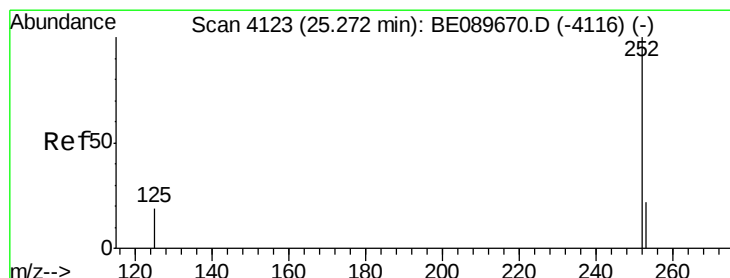
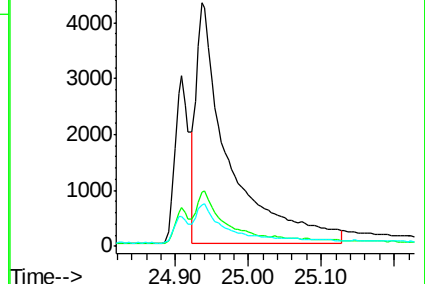
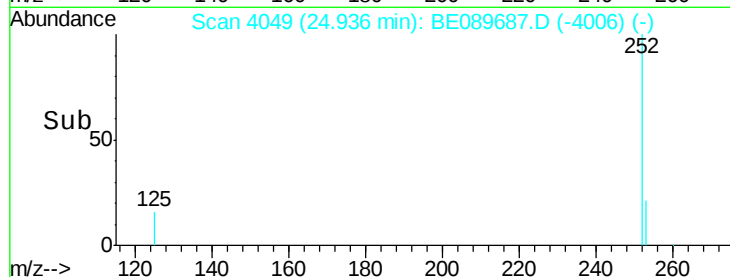
125 17.2 14.3 21.5



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: 1.13 ng

RT: 25.27 min Scan# 4122

Delta R.T. 0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

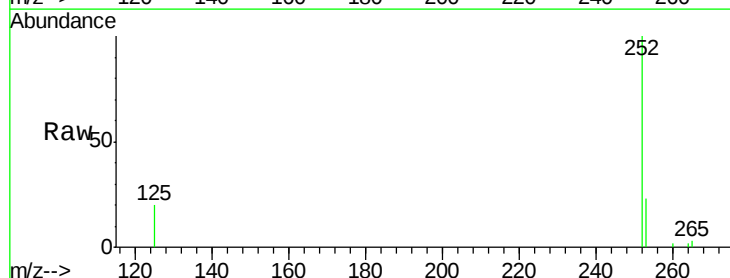
Tgt Ion:252 Resp: 5077

Ion Ratio Lower Upper

252 100

253 23.3 18.8 28.2

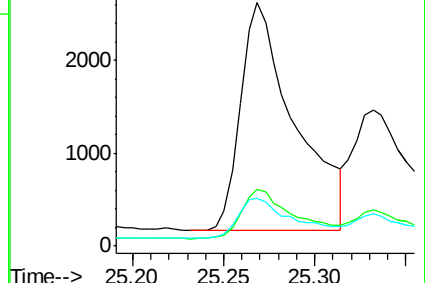
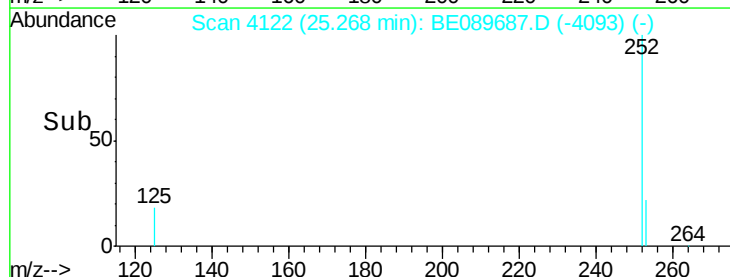
125 19.8 16.6 24.8



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: 1.20 ng

RT: 26.77 min Scan# 4397

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB81861BL

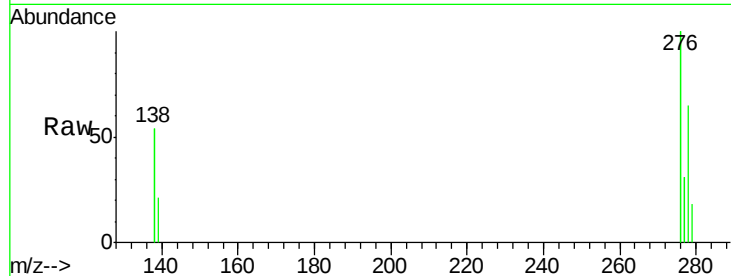
Tgt Ion: 278 Resp: 4272

Ion Ratio Lower Upper

278 100

139 32.0 30.4 45.6

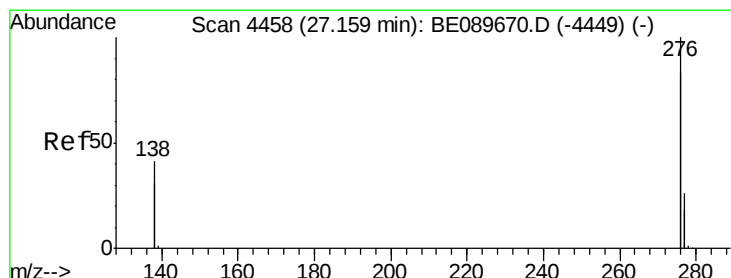
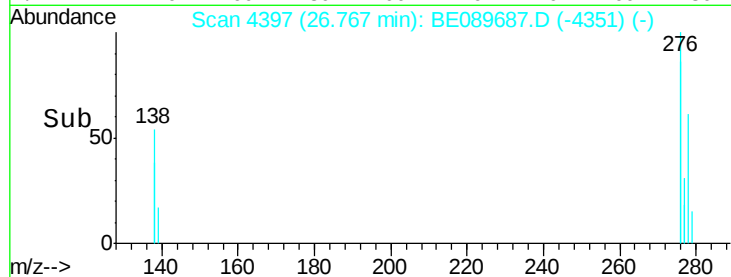
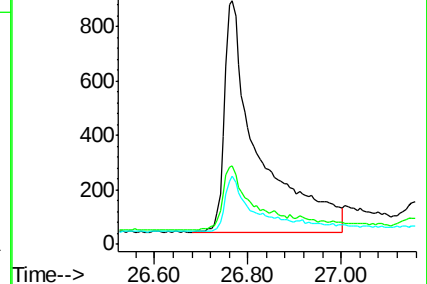
279 27.9 22.0 33.0



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: 1.12 ng

RT: 27.15 min Scan# 4456

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 19:32

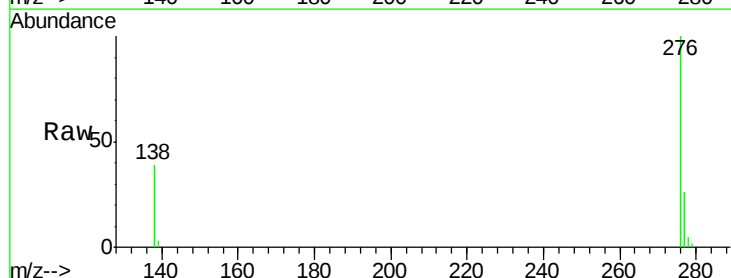
Tgt Ion: 276 Resp: 27727

Ion Ratio Lower Upper

276 100

277 25.9 21.0 31.6

138 39.1 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

