

Data Path : Z:\HPCHEM1\BNA_E\Data\BE013015\
 Data File : BE089444.D
 Acq On : 30 Jan 2015 18:43
 Operator : TP/IZ
 Sample : PB81495BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BL

Quant Time: Feb 02 00:07:18 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	73815	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	306656	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	165033	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	276824	5.00	ng	0.00
16) Chrysene-d12	23.84	240	226573	5.00	ng	0.00
22) Perylene-d12	25.56	264	203436	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	127114	6.26	ng	0.00
7) 2-Fluorobiphenyl	15.14	172	204661	4.71	ng	0.00
18) Terphenyl-d14	22.48	244	180727	5.33	ng	0.00

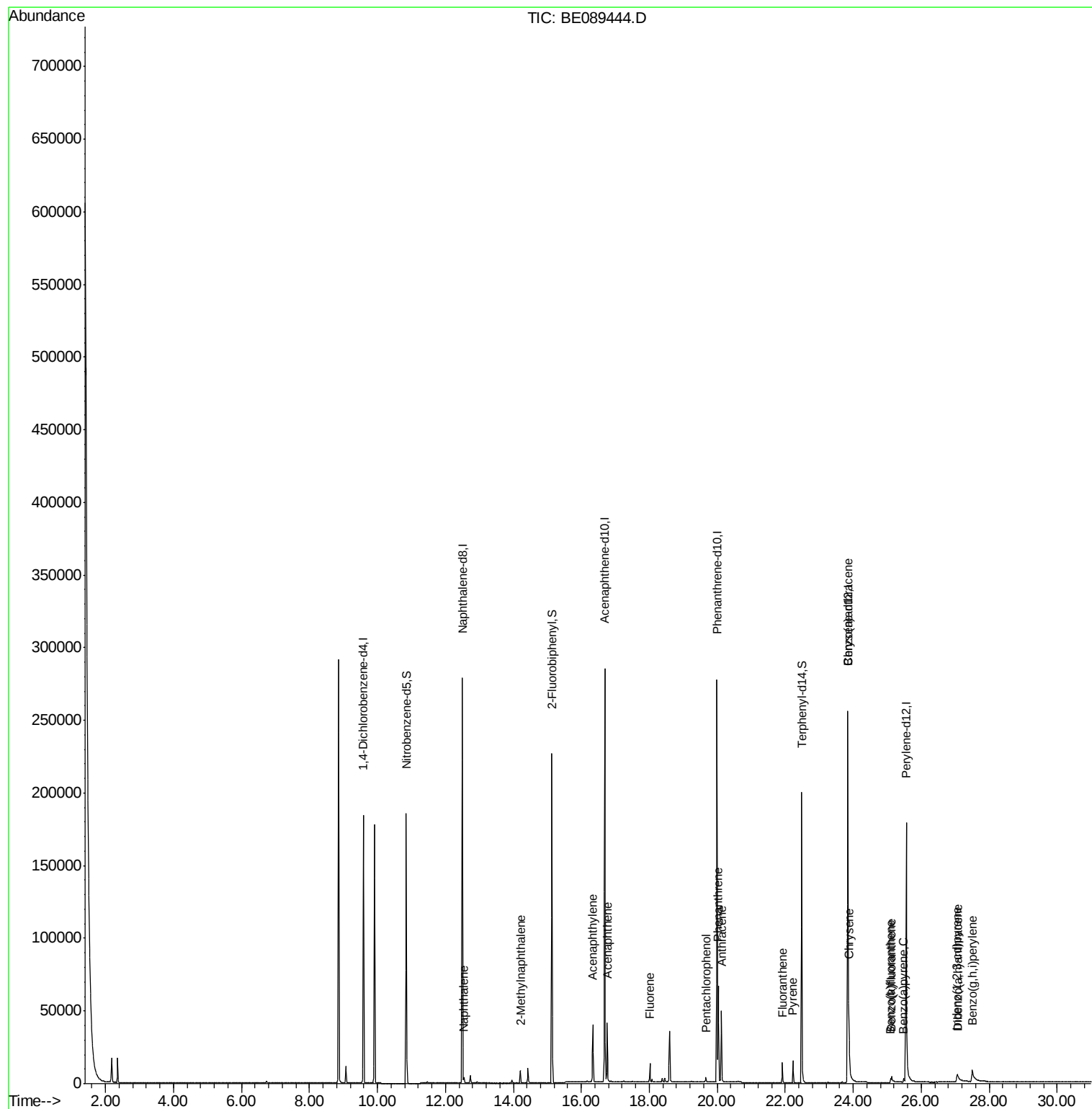
Target Compounds						Qvalue
4) Naphthalene	12.54	128	4381	0.06	ng	97
5) 2-Methylnaphthalene	14.21	142	5797	0.13	ng	99
8) Acenaphthylene	16.34	152	48532	0.16	ng	99
9) Acenaphthene	16.76	154	7935	0.18	ng	95
10) Fluorene	18.02	166	8702	0.18	ng	99
12) Pentachlorophenol	19.66	266	2274	1.66	ng	92
13) Phenanthrene	20.03	178	56837	0.21	ng	98
14) Anthracene	20.12	178	45407	0.18	ng	100
15) Fluoranthene	21.91	202	10730	0.18	ng	99
17) Pyrene	22.23	202	12023	0.20	ng	99
19) Benzo(a)anthracene	23.83	228	32772	0.17	ng	98
20) Chrysene	23.87	228	47479	0.22	ng	97
21) Indeno(1,2,3-cd)pyrene	27.06	276	16865	0.09	ng	99
23) Benzo(b)fluoranthene	25.10	252	3231	0.27	ng	# 88
24) Benzo(k)fluoranthene	25.13	252	6897	0.13	ng	# 94
25) Benzo(a)pyrene	25.48	252	3806	0.22	ng	# 88
26) Dibenzo(a,h)anthracene	27.08	278	2803	0.20	ng	# 83
27) Benzo(g,h,i)perylene	27.51	276	22906	0.14	ng	# 92

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1796

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

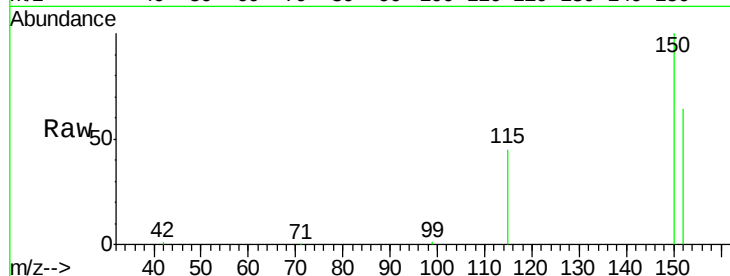
Tgt Ion:152 Resp: 73815

Ion Ratio Lower Upper

152 100

150 156.3 127.2 190.8

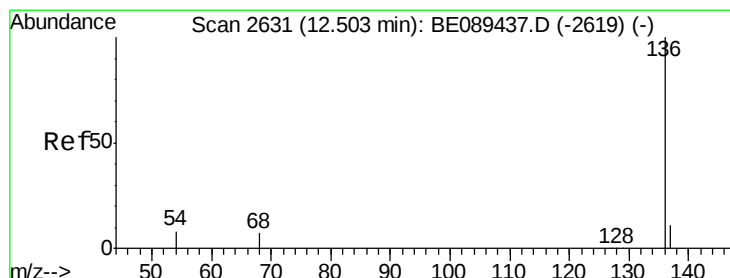
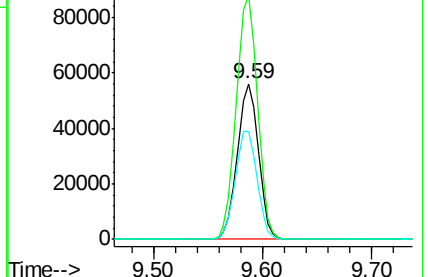
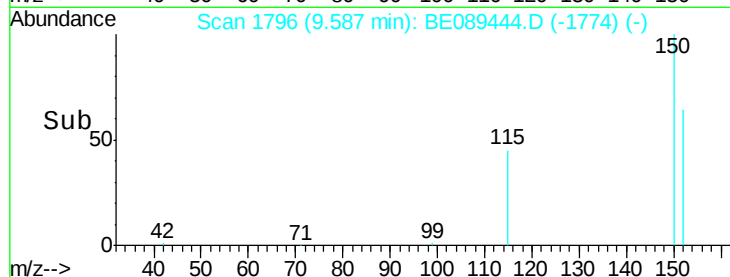
115 69.7 57.5 86.3



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

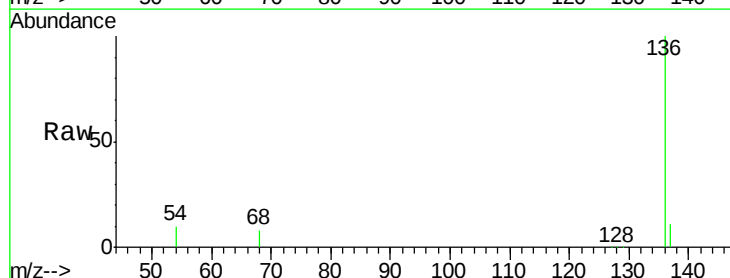
Tgt Ion:136 Resp: 306656

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

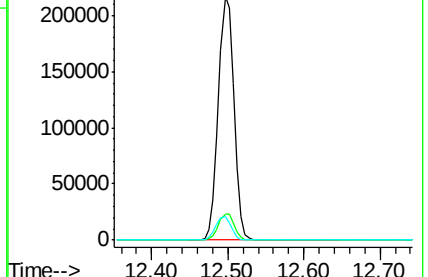
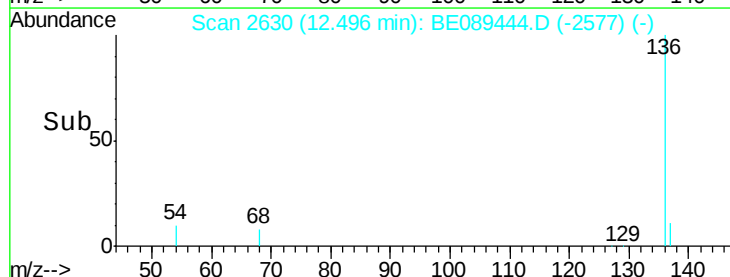
54 9.8 6.6 10.0



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





#3

Nitrobenzene-d5

Concen: 6.26 ng

RT: 10.85 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

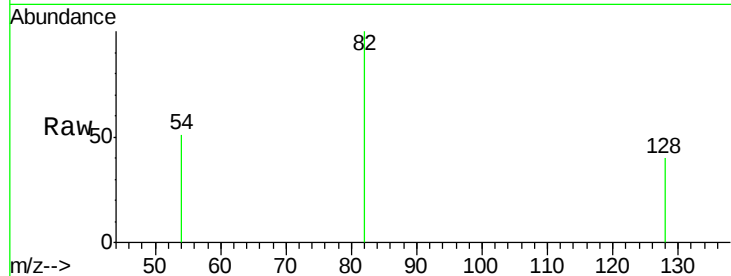
Tgt Ion: 82 Resp: 127114

Ion Ratio Lower Upper

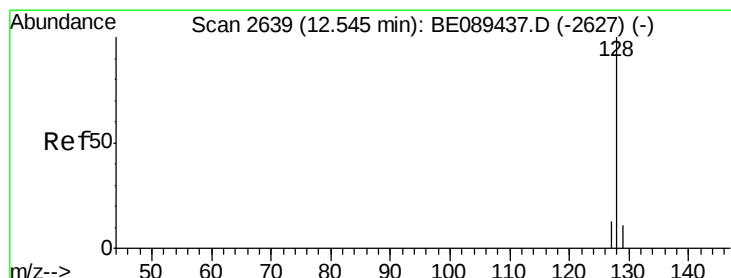
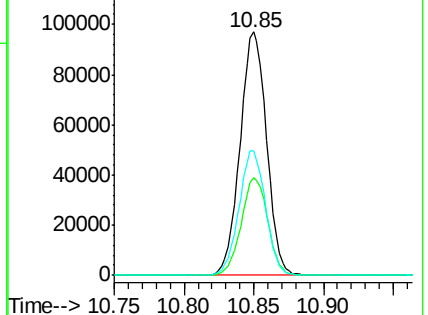
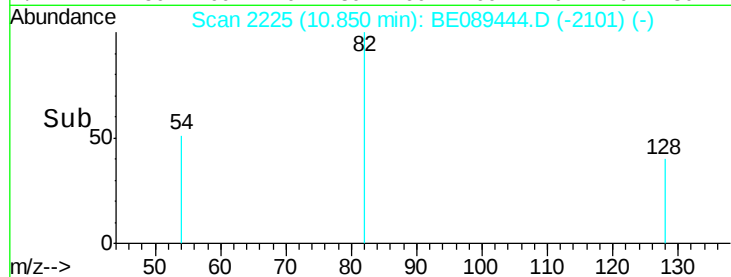
82 100

128 40.1 31.2 46.8

54 51.3 41.9 62.9



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



#4

Naphthalene

Concen: 0.06 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

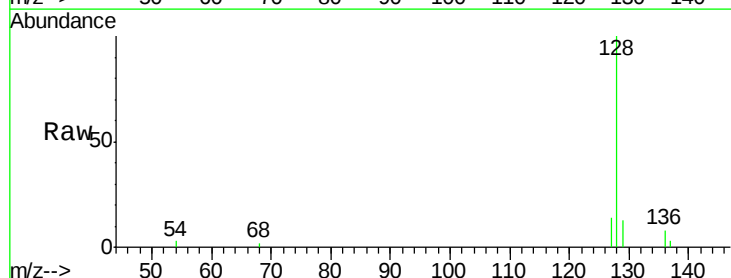
Tgt Ion: 128 Resp: 4381

Ion Ratio Lower Upper

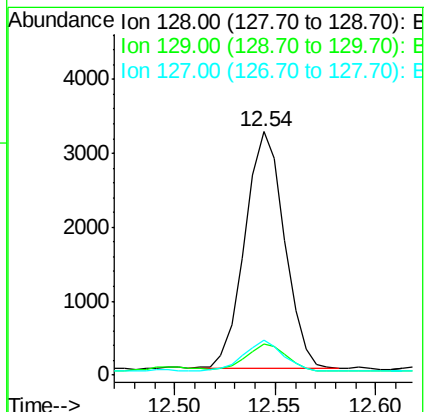
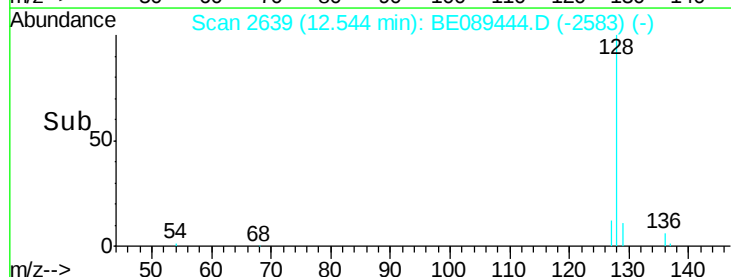
128 100

129 12.8 8.8 13.2

127 14.2 10.6 16.0



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





#5

2-Methylnaphthalene

Concen: 0.13 ng

RT: 14.21 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampled :

PB81495BL

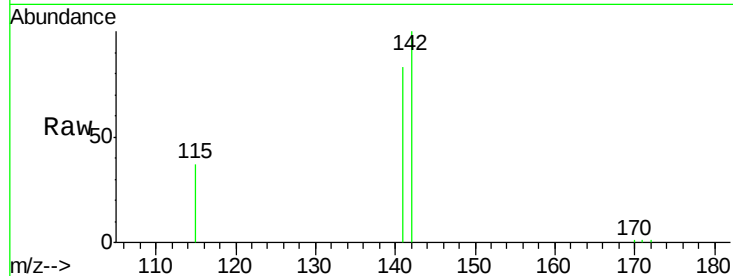
Tgt Ion:142 Resp: 5797

Ion Ratio Lower Upper

142 100

141 83.3 66.1 99.1

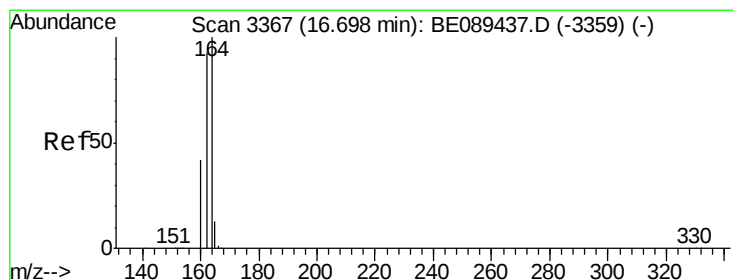
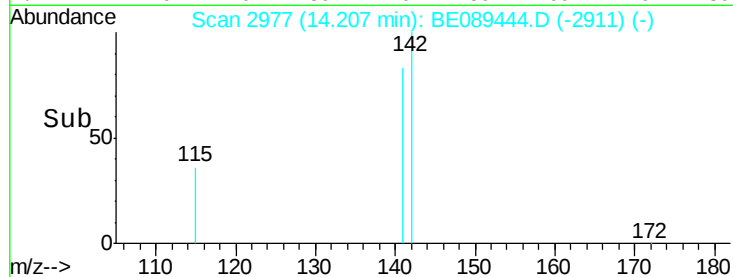
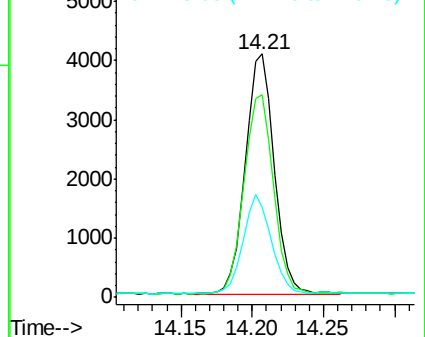
115 37.1 29.9 44.9



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

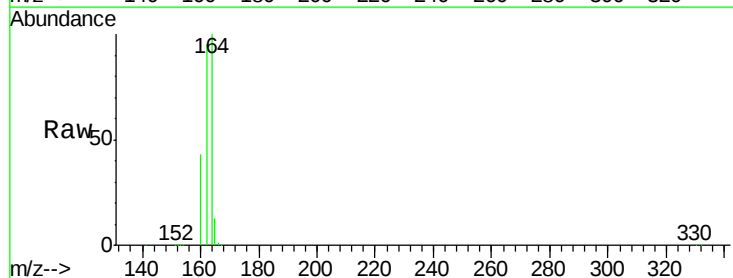
Tgt Ion:164 Resp: 165033

Ion Ratio Lower Upper

164 100

162 95.2 74.7 112.1

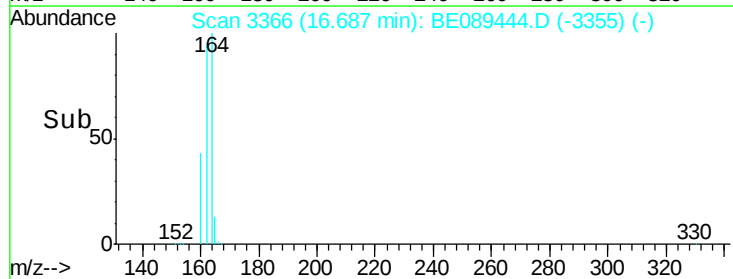
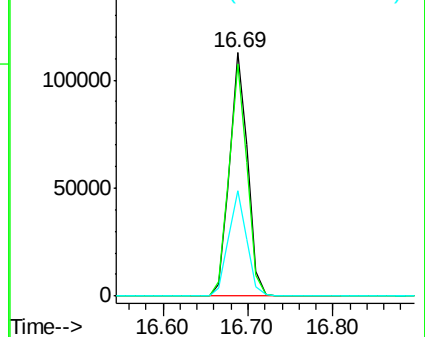
160 43.5 33.4 50.0



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





#7

2-Fluorobiphenyl

Concen: 4.71 ng

RT: 15.14 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

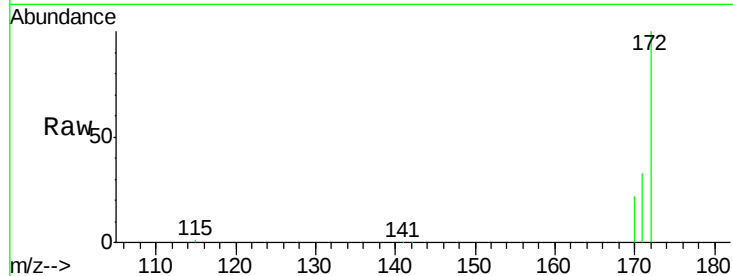
Tgt Ion:172 Resp: 204661

Ion Ratio Lower Upper

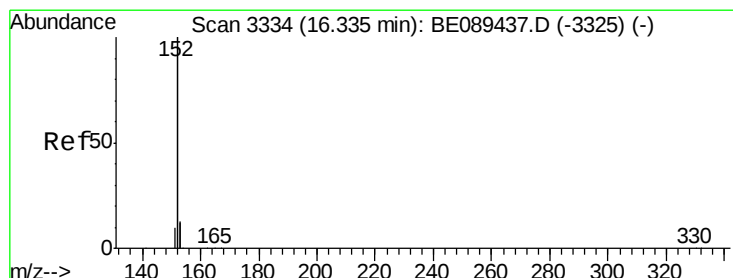
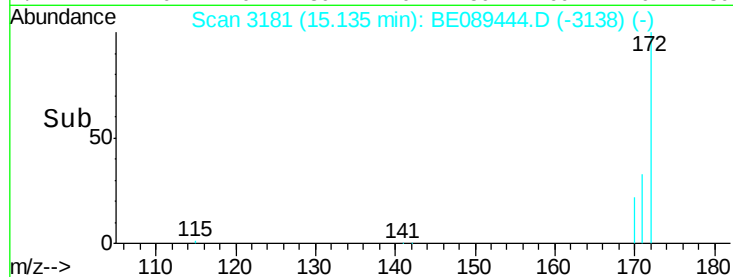
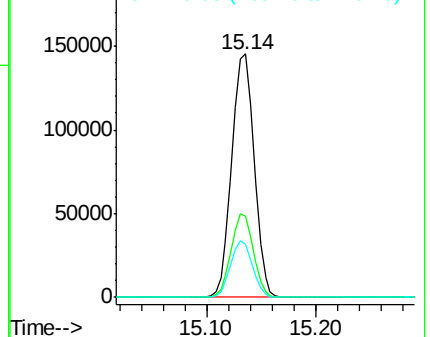
172 100

171 33.2 26.2 39.4

170 21.7 16.5 24.7



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



#8

Acenaphthylene

Concen: 0.16 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

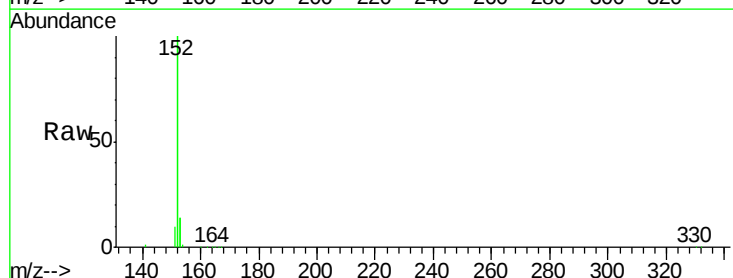
Tgt Ion:152 Resp: 48532

Ion Ratio Lower Upper

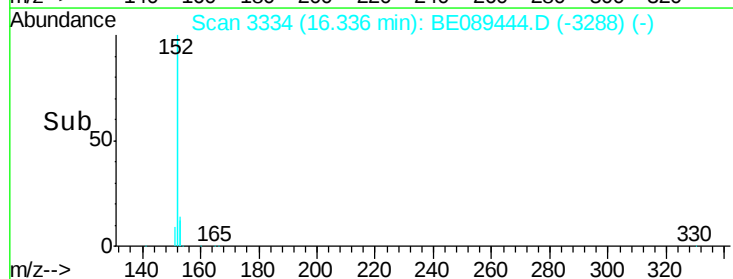
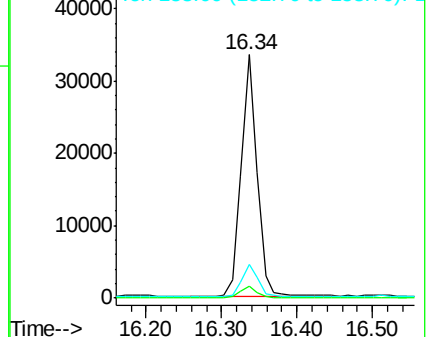
152 100

151 5.0 3.9 5.9

153 13.4 10.3 15.5



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





#9

Acenaphthene

Concen: 0.18 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

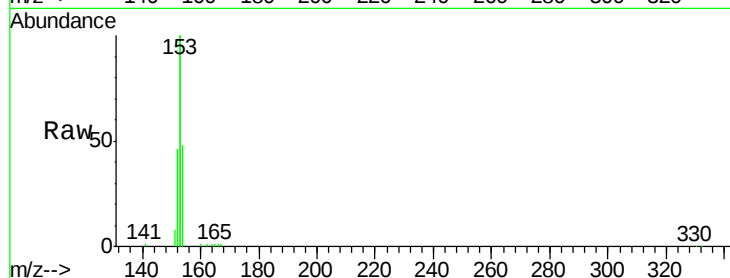
Tgt Ion:154 Resp: 7935

Ion Ratio Lower Upper

154 100

153 437.0 342.3 513.5

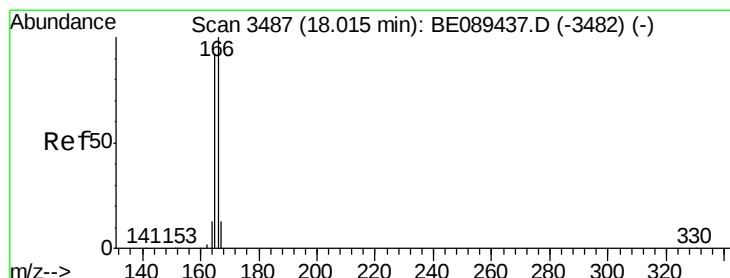
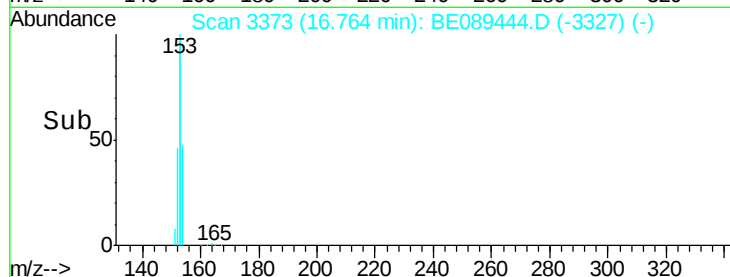
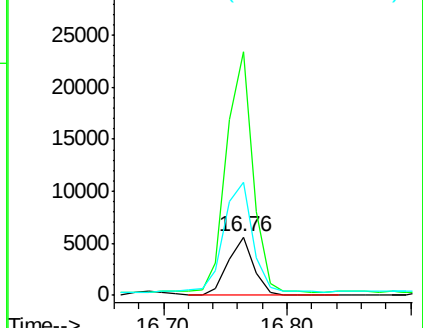
152 217.6 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.18 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

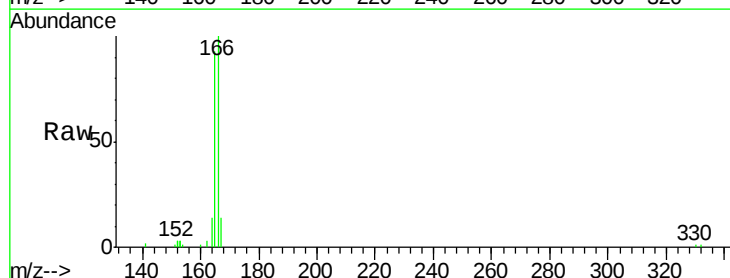
Tgt Ion:166 Resp: 8702

Ion Ratio Lower Upper

166 100

165 93.4 74.4 111.6

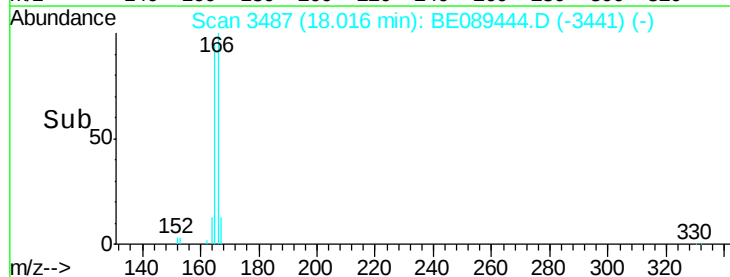
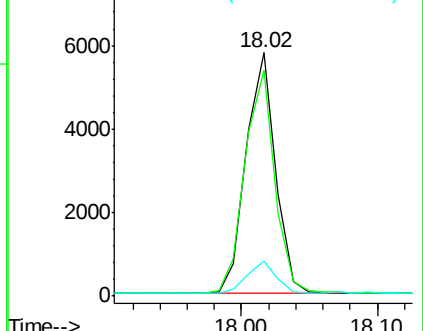
167 13.7 10.6 15.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

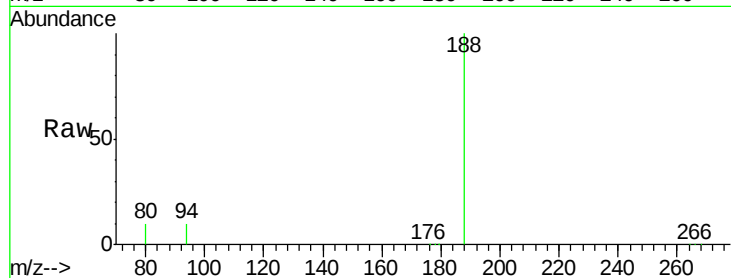




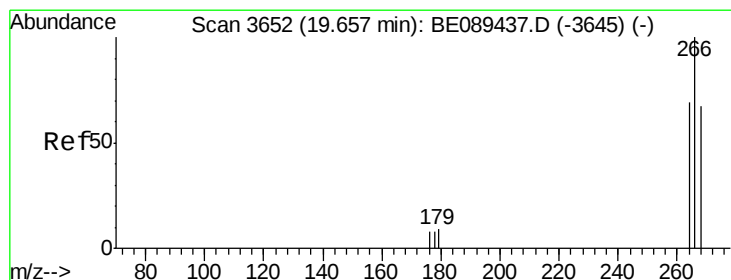
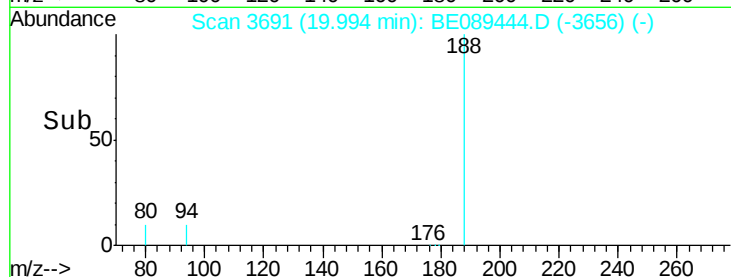
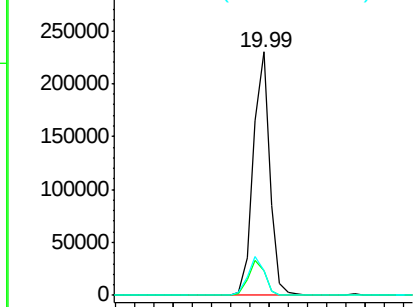
#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.99 min Scan# 3691
 Delta R.T. 0.00 min
 Lab File: BE089444.D
 Acq: 30 Jan 2015 18:43

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BL

Tgt Ion:188 Resp: 276824
 Ion Ratio Lower Upper
 188 100
 94 10.2 9.4 14.0
 80 9.9 9.3 13.9

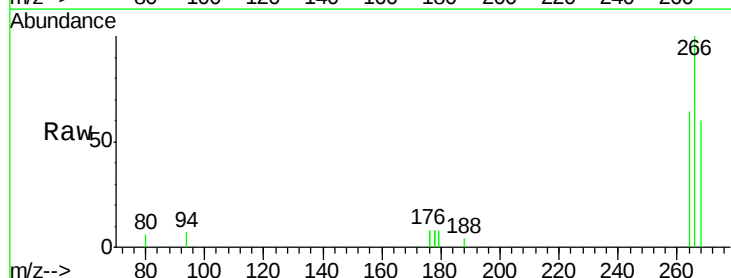


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BE0
 Ion 80.00 (79.70 to 80.70): BE0

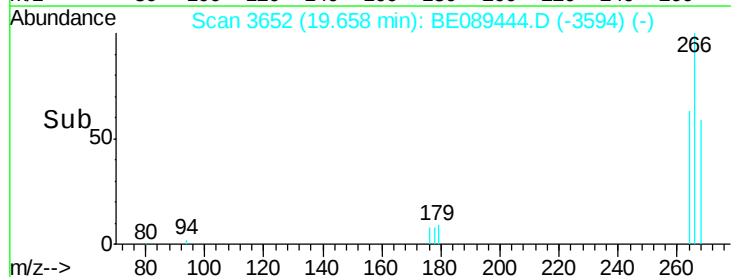
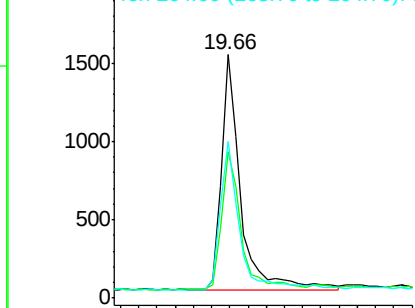


#12
 Pentachlorophenol
 Concen: 1.66 ng
 RT: 19.66 min Scan# 3652
 Delta R.T. 0.00 min
 Lab File: BE089444.D
 Acq: 30 Jan 2015 18:43

Tgt Ion:266 Resp: 2274
 Ion Ratio Lower Upper
 266 100
 268 60.1 54.2 81.4
 264 64.4 56.2 84.2



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

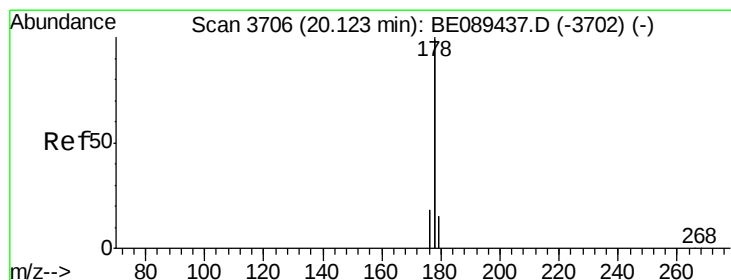
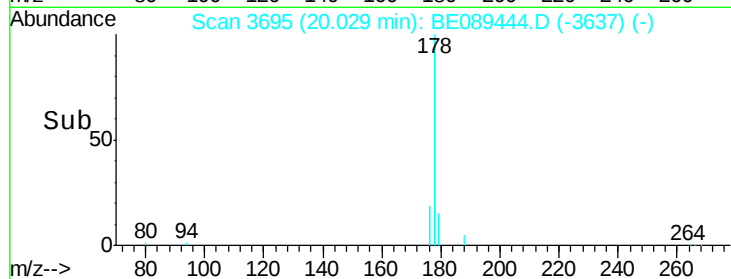
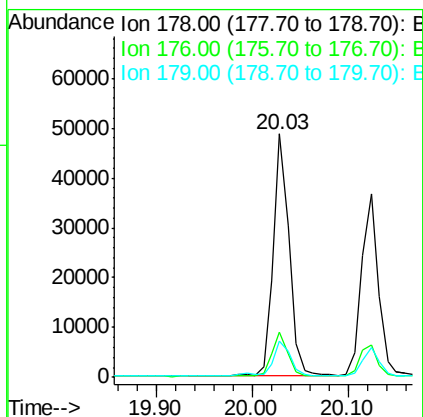
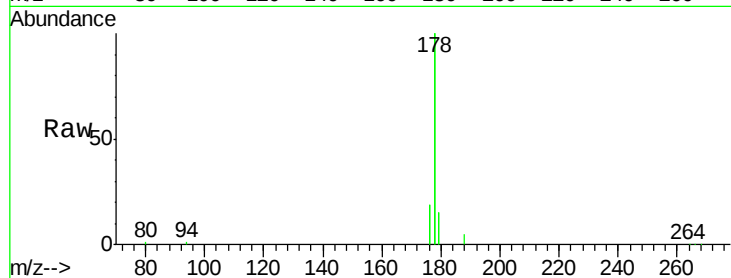




#13
Phenanthrene
Concen: 0.21 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089444.D
Acq: 30 Jan 2015 18:43

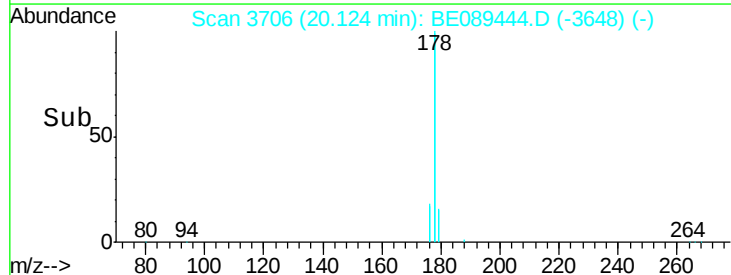
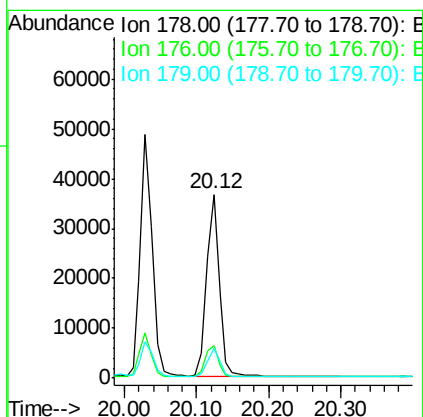
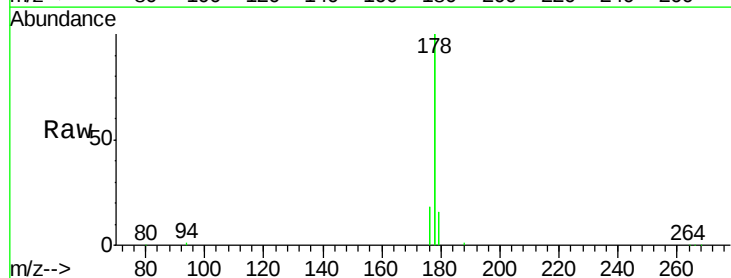
Instrument :
BNA_E
ClientSampleId :
PB81495BL

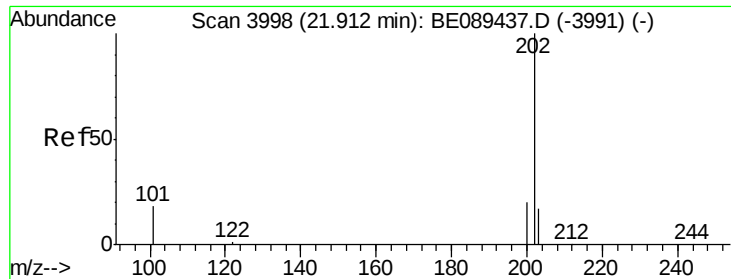
Tgt Ion:178 Resp: 56837
Ion Ratio Lower Upper
178 100
176 18.5 15.1 22.7
179 16.5 12.3 18.5



#14
Anthracene
Concen: 0.18 ng
RT: 20.12 min Scan# 3706
Delta R.T. 0.00 min
Lab File: BE089444.D
Acq: 30 Jan 2015 18:43

Tgt Ion:178 Resp: 45407
Ion Ratio Lower Upper
178 100
176 18.2 14.6 22.0
179 15.3 12.2 18.2

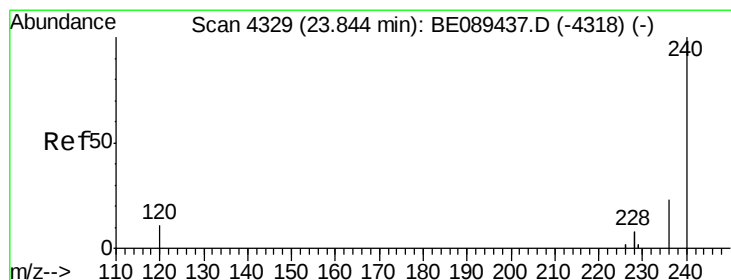
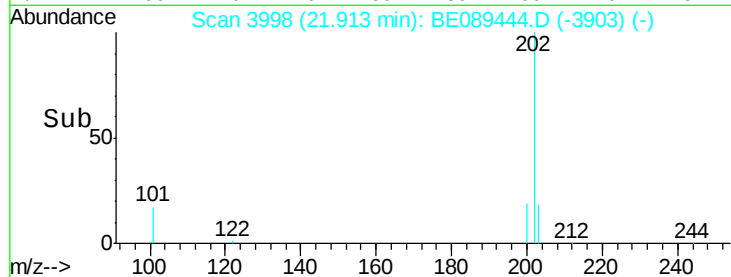
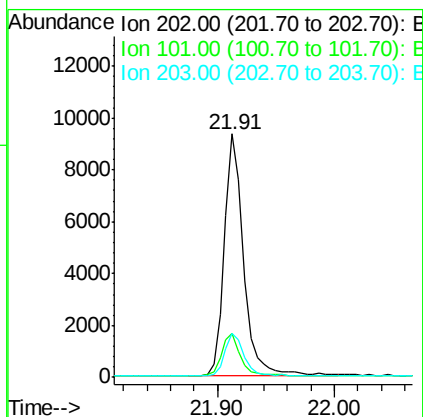
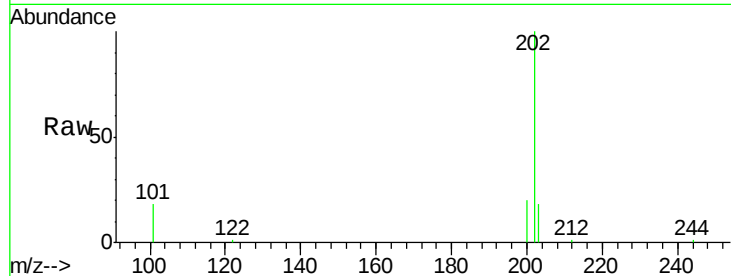




#15
Fluoranthene
Concen: 0.18 ng
RT: 21.91 min Scan# 3998
Delta R.T. 0.00 min
Lab File: BE089444.D
Acq: 30 Jan 2015 18:43

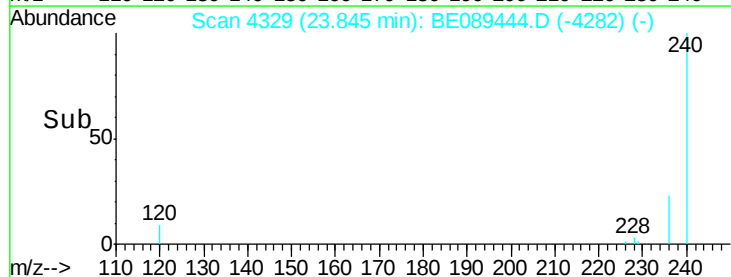
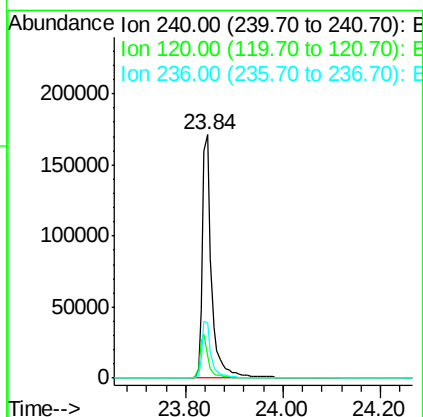
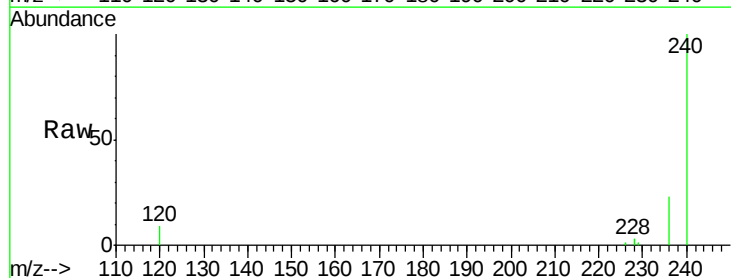
Instrument :
BNA_E
ClientSampleId :
PB81495BL

Tgt Ion: 202 Resp: 10730
Ion Ratio Lower Upper
202 100
101 17.5 13.6 20.4
203 17.6 13.8 20.6



#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.84 min Scan# 4329
Delta R.T. 0.00 min
Lab File: BE089444.D
Acq: 30 Jan 2015 18:43

Tgt Ion: 240 Resp: 226573
Ion Ratio Lower Upper
240 100
120 9.3 8.6 13.0
236 22.6 18.7 28.1





#17

Pyrene

Concen: 0.20 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

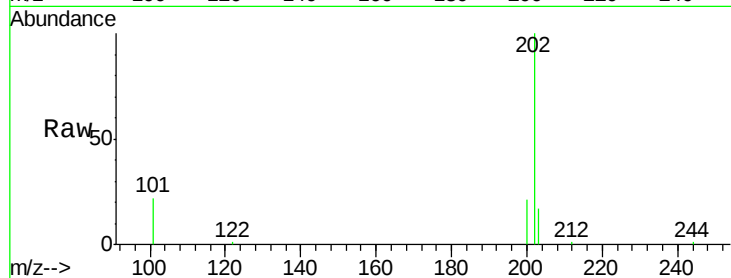
Tgt Ion:202 Resp: 12023

Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.4

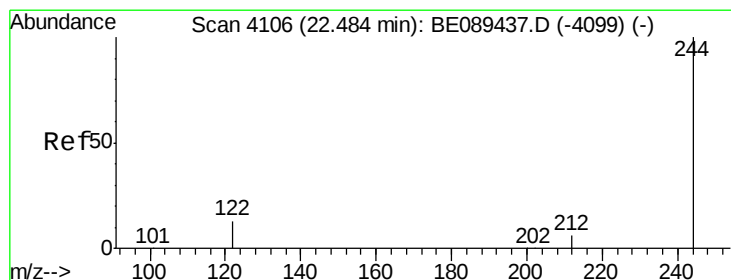
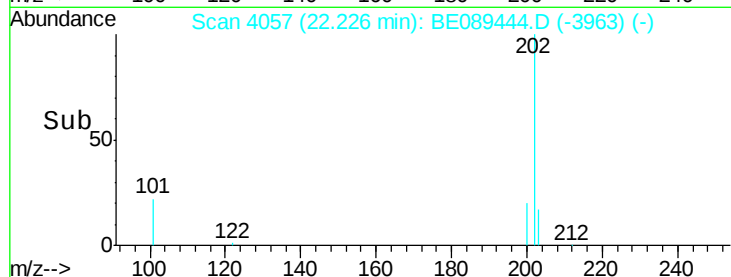
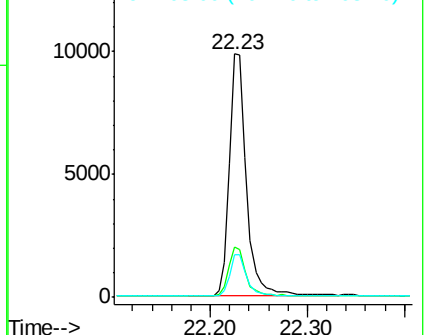
203 16.9 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 5.33 ng

RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

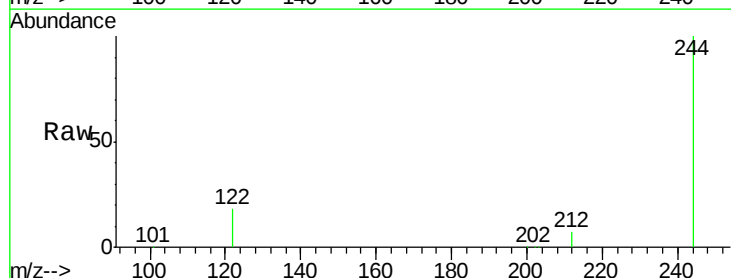
Tgt Ion:244 Resp: 180727

Ion Ratio Lower Upper

244 100

212 6.8 5.0 7.6

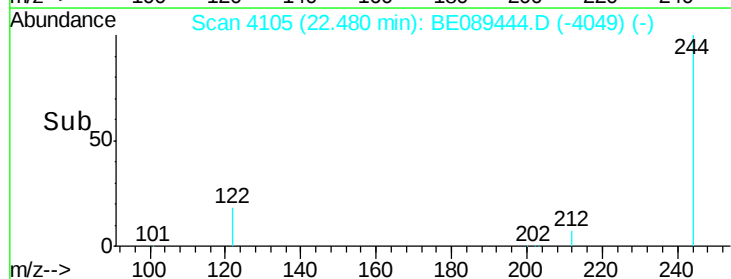
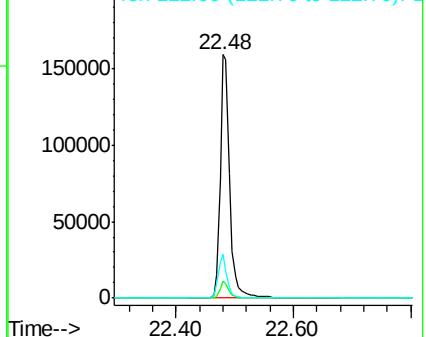
122 18.2 10.2 15.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.17 ng

RT: 23.83 min Scan# 4327

Delta R.T. 0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

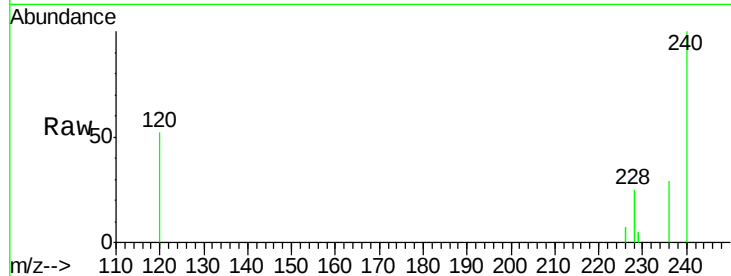
Tgt Ion:228 Resp: 32772

Ion Ratio Lower Upper

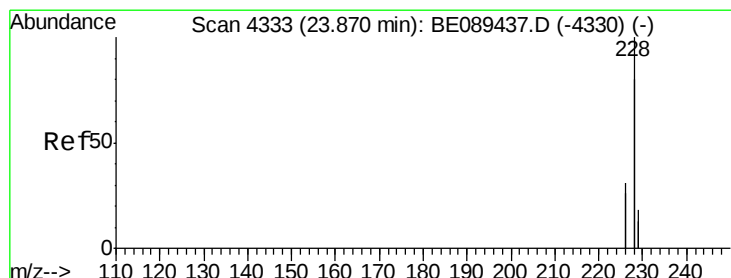
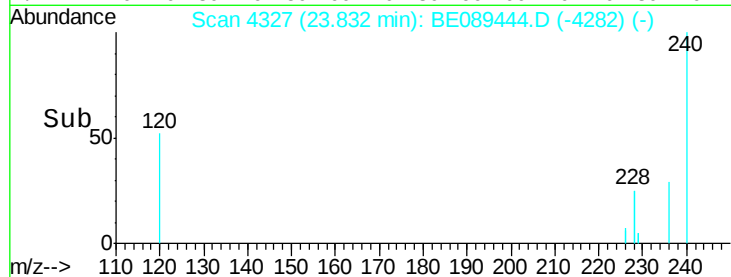
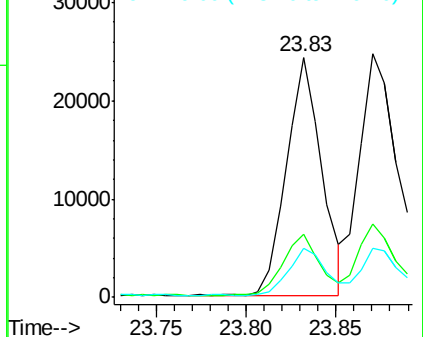
228 100

226 26.3 20.0 30.0

229 20.4 16.0 24.0



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



#20

Chrysene

Concen: 0.22 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

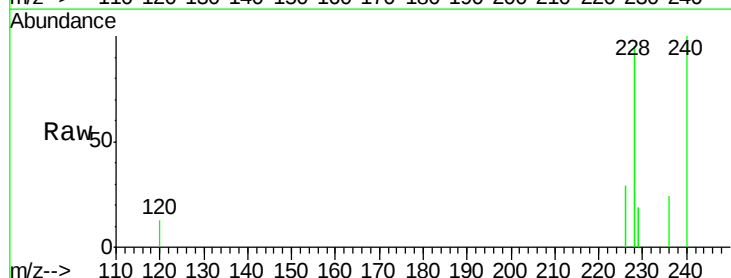
Tgt Ion:228 Resp: 47479

Ion Ratio Lower Upper

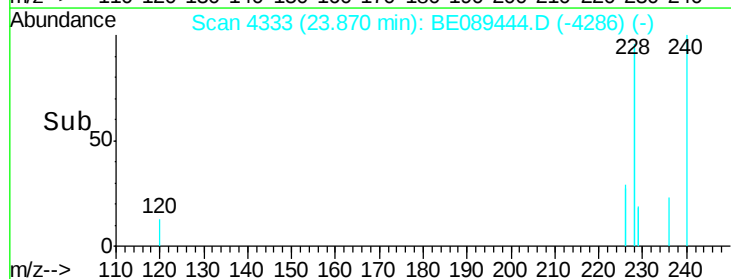
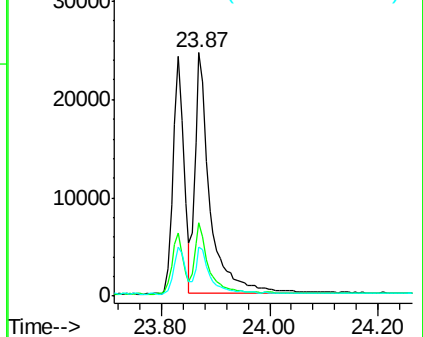
228 100

226 30.1 24.5 36.7

229 20.1 14.1 21.1



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.09 ng

RT: 27.06 min Scan# 4949

Delta R.T. -0.01 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

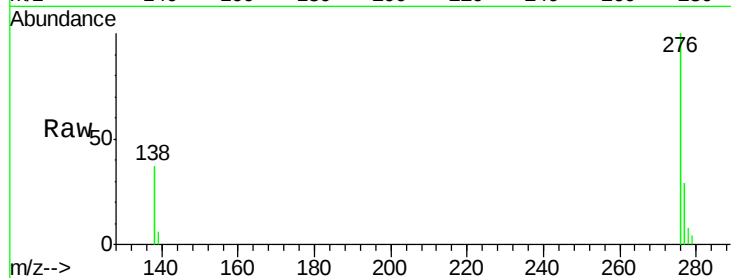
Tgt Ion:276 Resp: 16865

Ion Ratio Lower Upper

276 100

138 30.9 25.4 38.0

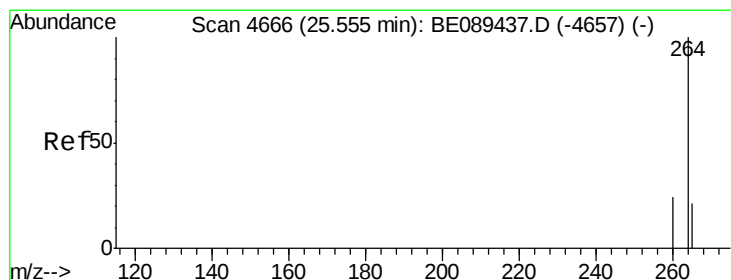
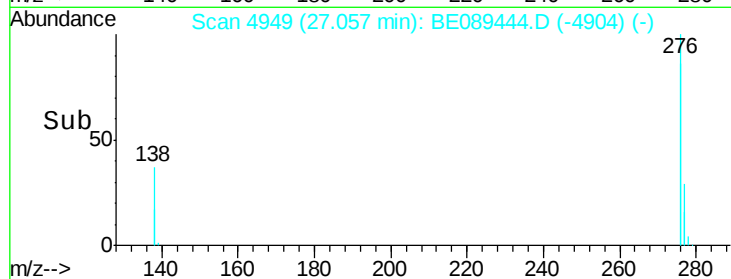
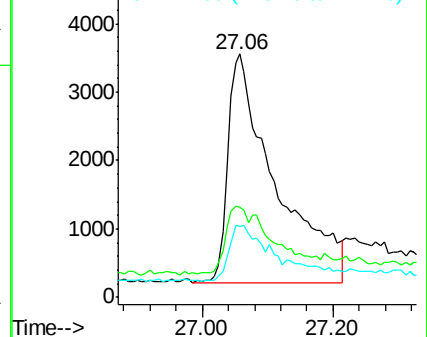
277 25.4 19.8 29.6



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.56 min Scan# 4666

Delta R.T. 0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

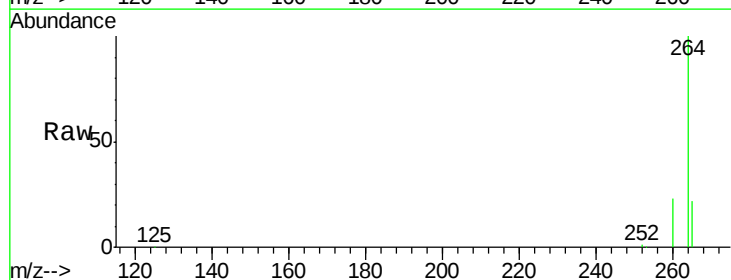
Tgt Ion:264 Resp: 203436

Ion Ratio Lower Upper

264 100

260 23.5 19.4 29.0

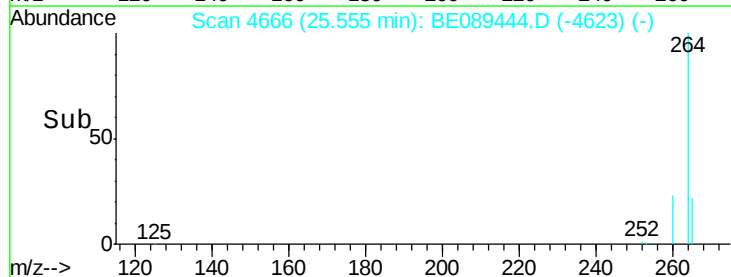
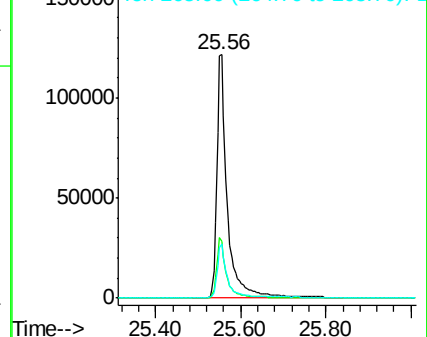
265 22.1 17.0 25.6



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





#23

Benzo(b)fluoranthene

Concen: 0.27 ng

RT: 25.10 min Scan# 4566

Delta R.T. 0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

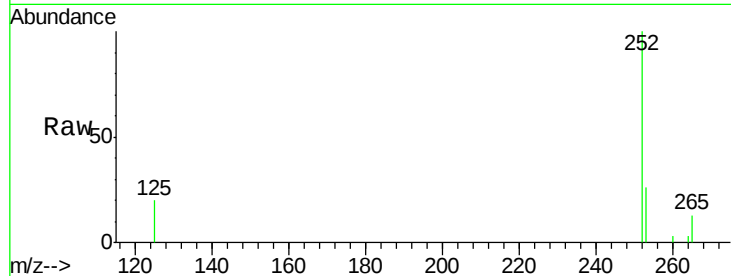
Tgt Ion:252 Resp: 3231

Ion Ratio Lower Upper

252 100

253 25.7 17.0 25.6#

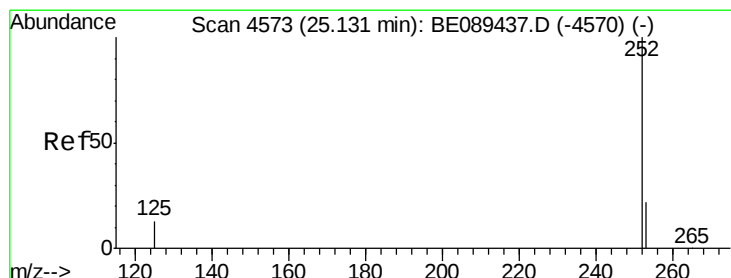
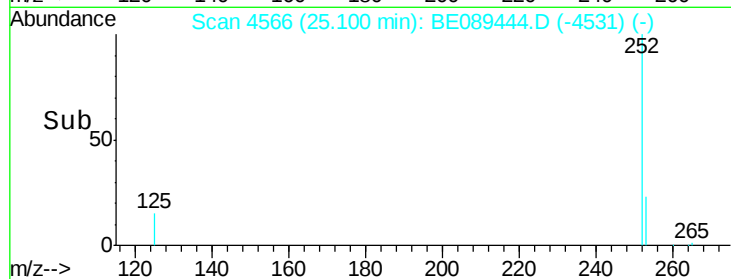
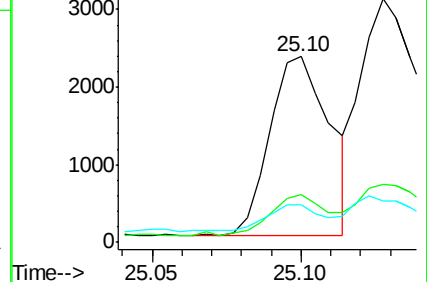
125 20.4 11.4 17.0#



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



#24

Benzo(k)fluoranthene

Concen: 0.13 ng

RT: 25.13 min Scan# 4572

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

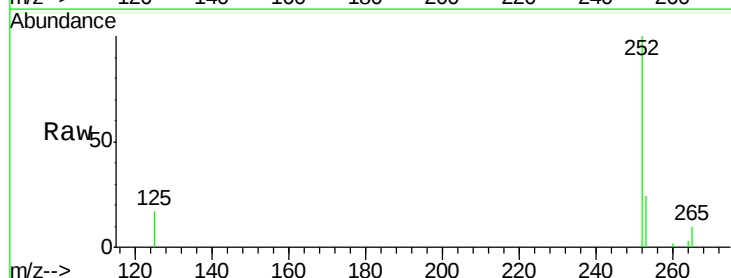
Tgt Ion:252 Resp: 6897

Ion Ratio Lower Upper

252 100

253 24.0 17.4 26.2

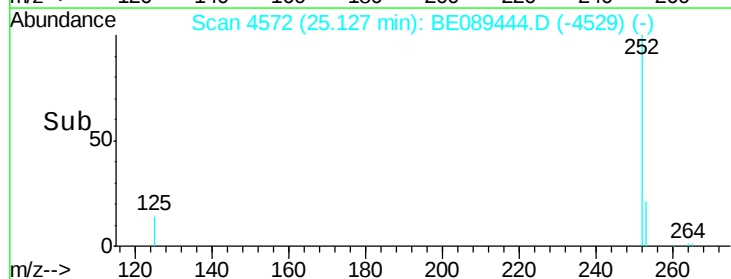
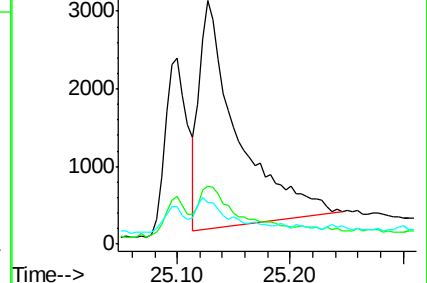
125 17.2 10.9 16.3#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.22 ng

RT: 25.48 min Scan# 4650

Delta R.T. -0.00 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL

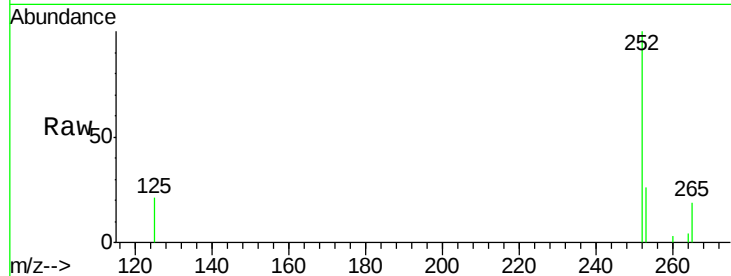
Tgt Ion:252 Resp: 3806

Ion Ratio Lower Upper

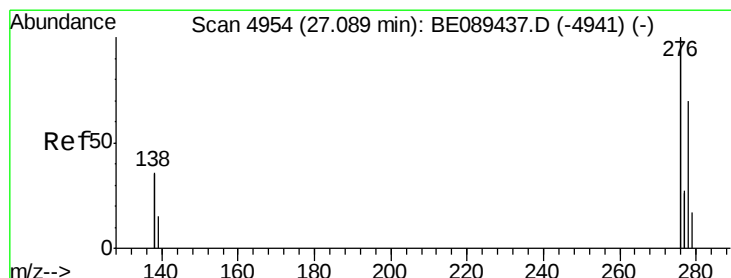
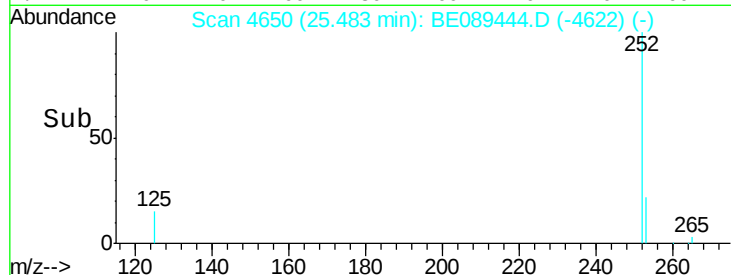
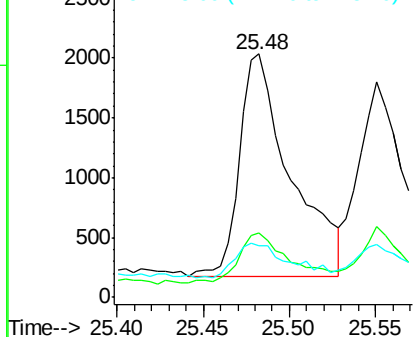
252 100

253 26.4 17.3 25.9#

125 21.2 12.0 18.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 0.20 ng

RT: 27.08 min Scan# 4953

Delta R.T. -0.01 min

Lab File: BE089444.D

Acq: 30 Jan 2015 18:43

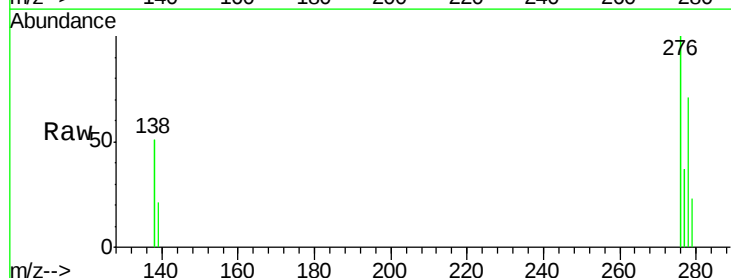
Tgt Ion:278 Resp: 2803

Ion Ratio Lower Upper

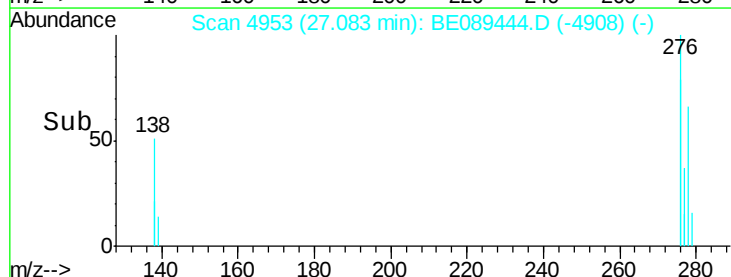
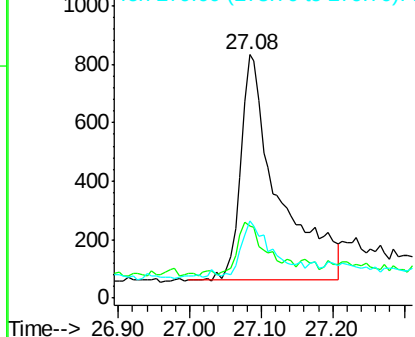
278 100

139 29.7 17.0 25.4#

279 31.8 19.1 28.7#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.14 ng

RT: 27.51 min Scan# 5018

Delta R.T. 0.00 min

Lab File: BE089444.D

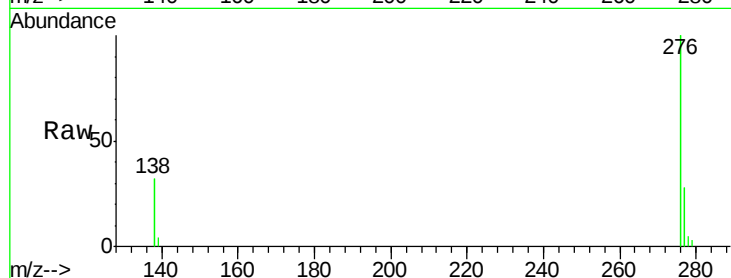
Acq: 30 Jan 2015 18:43

Instrument :

BNA_E

ClientSampleId :

PB81495BL



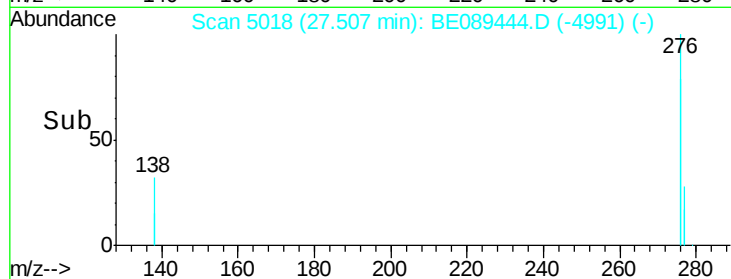
Tgt Ion: 276 Resp: 22906

Ion Ratio Lower Upper

276 100

277 28.0 18.4 27.6#

138 32.5 23.7 35.5



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

