

Data Path : Z:\HPCHEM1\BNA_E\Data\BE013015\
 Data File : Be089442.d
 Acq On : 30 Jan 2015 17:22
 Operator : TP/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE123015

Quant Time: Jan 31 06:18:33 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

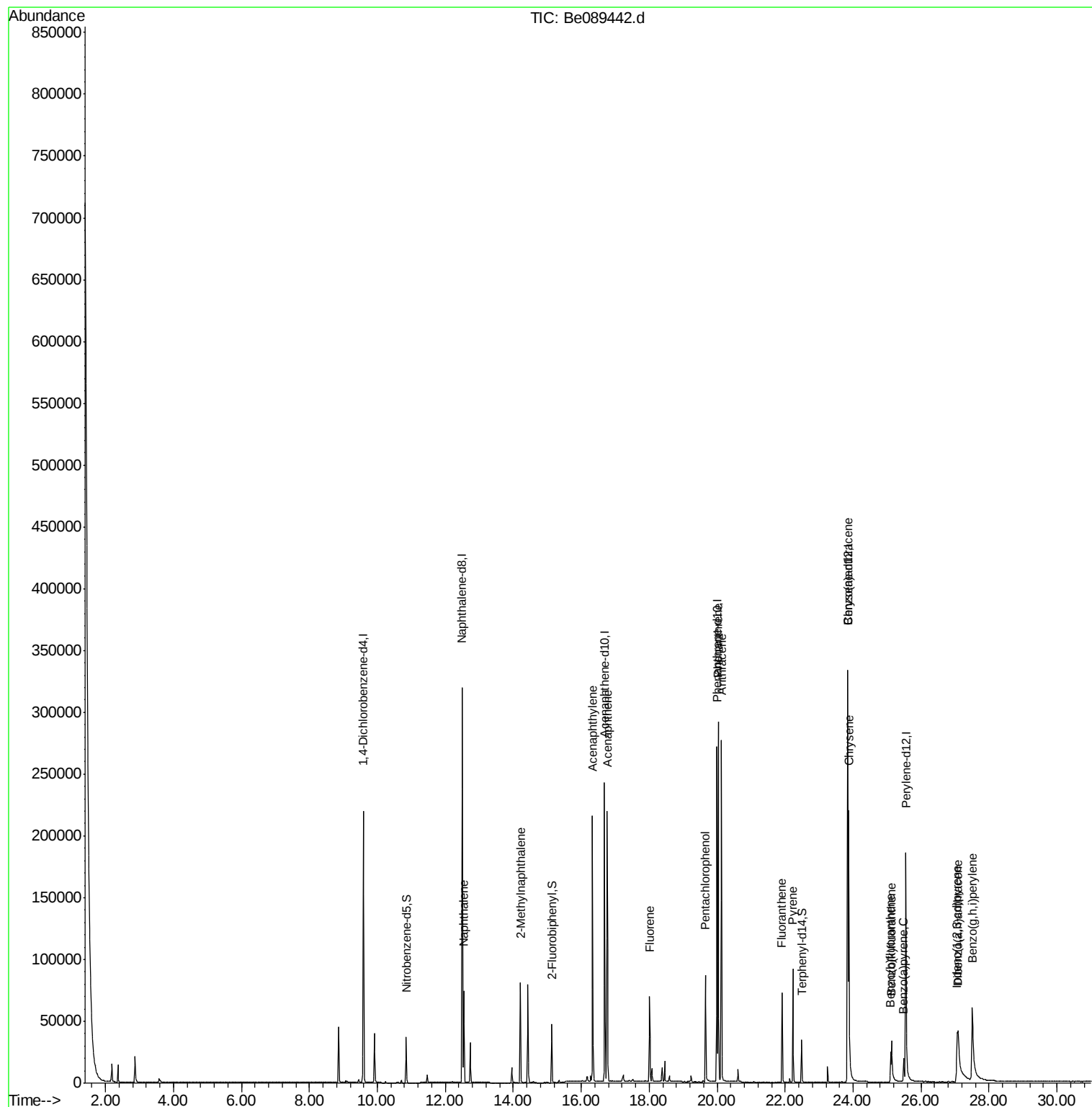
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	90258	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	357275	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	150452	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	260761	5.00	ng	0.00
16) Chrysene-d12	23.85	240	214742	5.00	ng	0.00
22) Perylene-d12	25.56	264	193833	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	25923	1.10	ng	0.00
7) 2-Fluorobiphenyl	15.14	172	40882	1.03	ng	0.00
18) Terphenyl-d14	22.48	244	32416	1.01	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.54	128	83653	1.00	ng	99
5) 2-Methylnaphthalene	14.21	142	48766	0.96	ng	98
8) Acenaphthylene	16.33	152	274820	1.02	ng	100
9) Acenaphthene	16.76	154	41422	1.02	ng	99
10) Fluorene	18.01	166	44796	0.99	ng	99
12) Pentachlorophenol	19.66	266	49177	13.41	ng	94
13) Phenanthrene	20.03	178	263179	1.03	ng	99
14) Anthracene	20.12	178	236273	1.01	ng	99
15) Fluoranthene	21.92	202	54473	0.97	ng	100
17) Pyrene	22.23	202	61194	1.07	ng	100
19) Benzo(a)anthracene	23.83	228	171035	0.95	ng	99
20) Chrysene	23.87	228	212717	1.04	ng	98
21) Indeno(1,2,3-cd)pyrene	27.06	276	148335	0.83	ng	96
23) Benzo(b)fluoranthene	25.10	252	23397	0.84	ng	98
24) Benzo(k)fluoranthene	25.13	252	58060	1.18	ng	98
25) Benzo(a)pyrene	25.49	252	27185	0.88	ng	99
26) Dibenzo(a,h)anthracene	27.10	278	28122	0.82	ng	98
27) Benzo(g,h,i)perylene	27.51	276	141672	0.91	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: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: Be089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

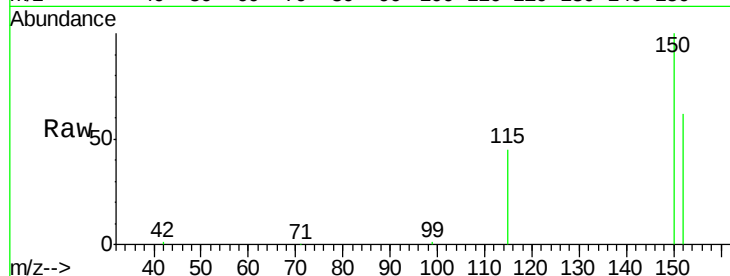
Tgt Ion:152 Resp: 90258

Ion Ratio Lower Upper

152 100

150 161.5 127.2 190.8

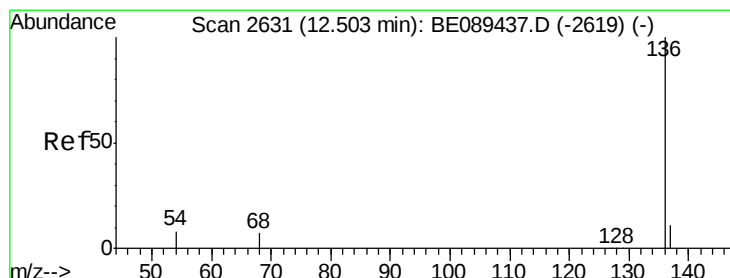
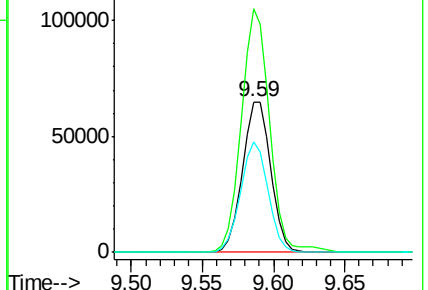
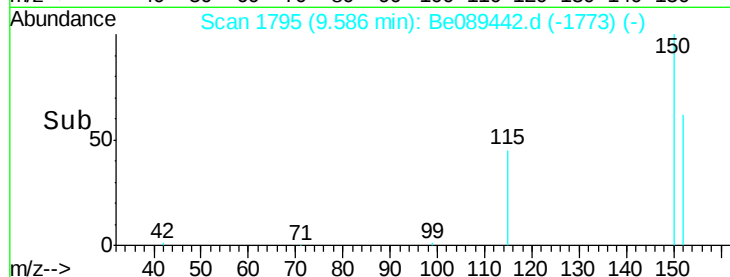
115 73.4 57.5 86.3



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: Be089442.d

Acq: 30 Jan 2015 17:22

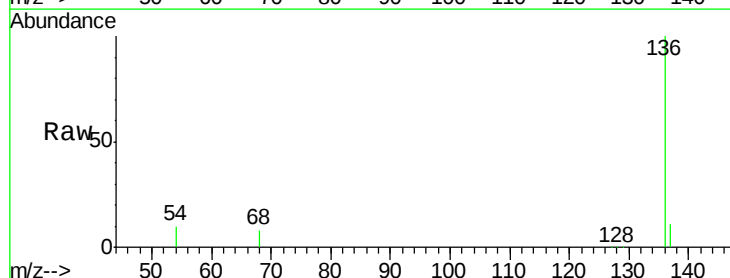
Tgt Ion:136 Resp: 357275

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

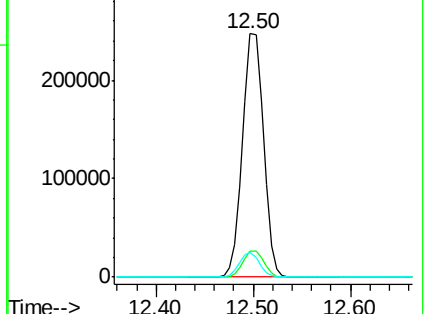
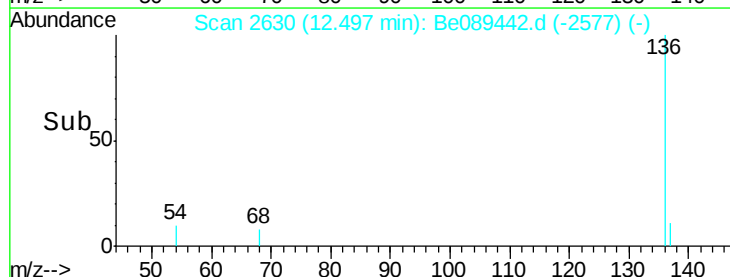
54 10.0 6.6 10.0#

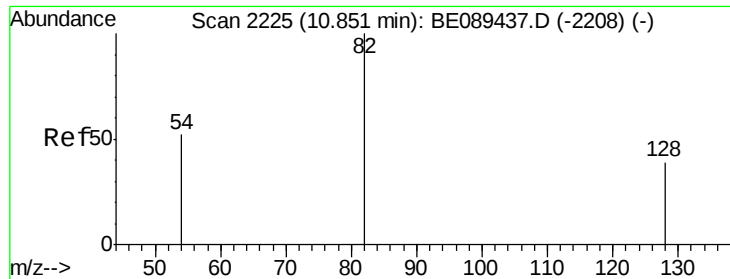


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): Be0





#3

Nitrobenzene-d5

Concen: 1.10 ng

RT: 10.85 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

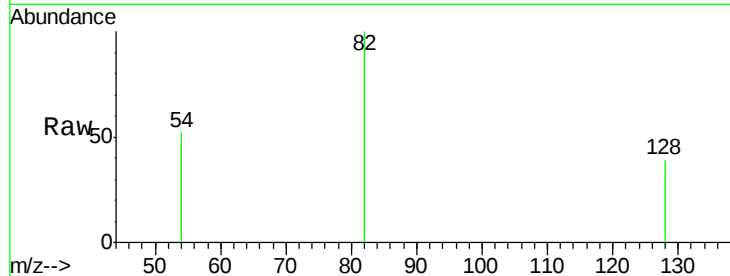
Tgt Ion: 82 Resp: 25923

Ion Ratio Lower Upper

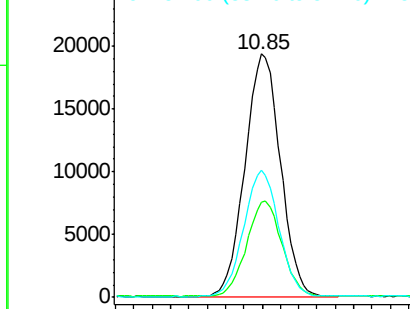
82 100

128 38.9 31.2 46.8

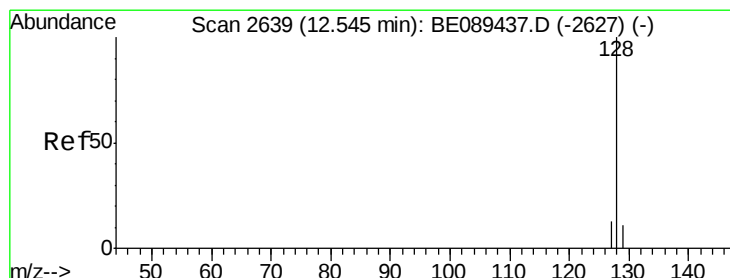
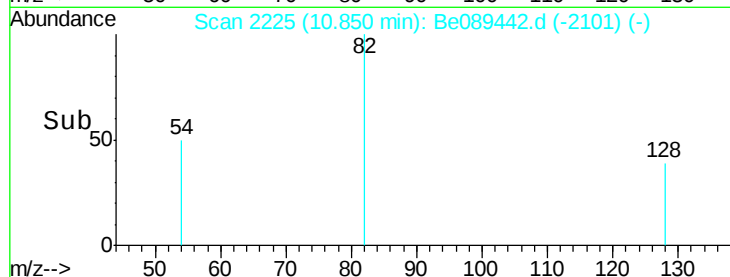
54 52.2 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): Be0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): Be0



Time-->



#4

Naphthalene

Concen: 1.00 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

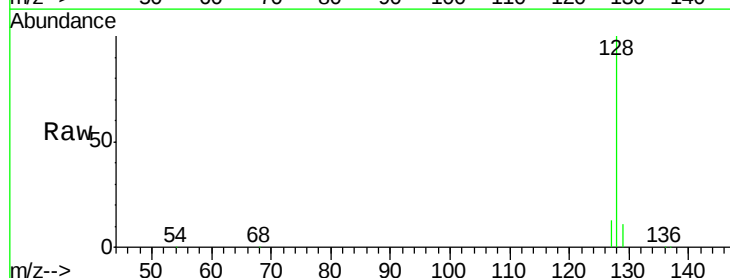
Tgt Ion: 128 Resp: 83653

Ion Ratio Lower Upper

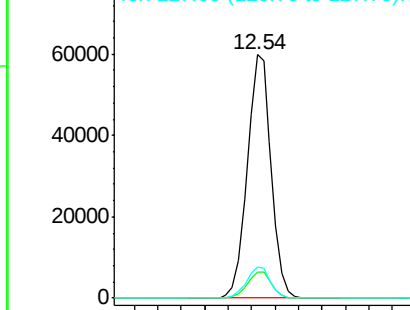
128 100

129 10.5 8.8 13.2

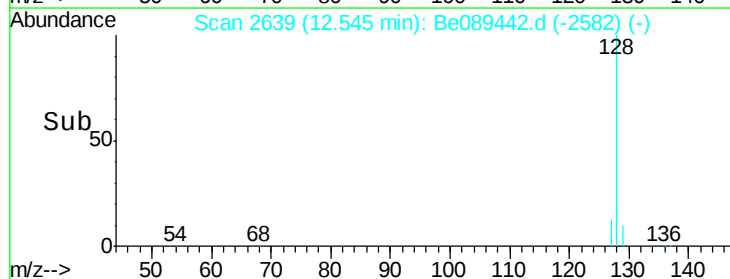
127 13.0 10.6 16.0



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



Time-->





#5

2-Methylnaphthalene

Concen: 0.96 ng

RT: 14.21 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

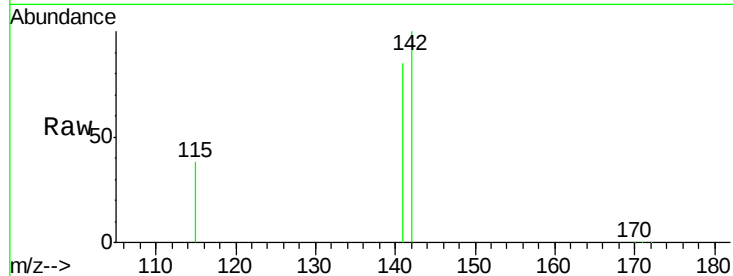
Tgt Ion:142 Resp: 48766

Ion Ratio Lower Upper

142 100

141 84.9 66.1 99.1

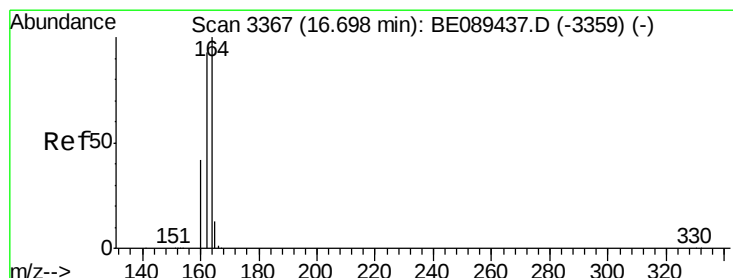
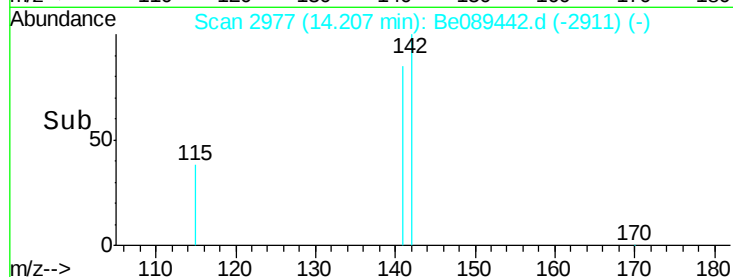
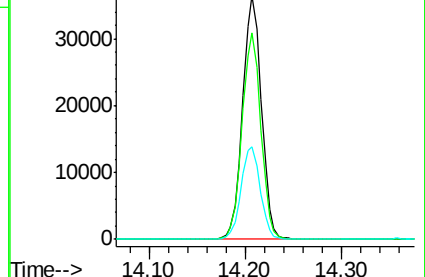
115 37.9 29.9 44.9



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: BE089442.d

Acq: 30 Jan 2015 17:22

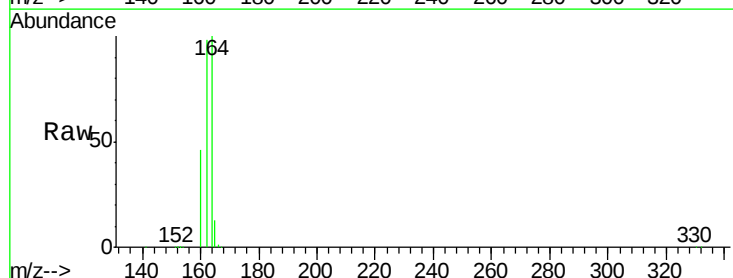
Tgt Ion:164 Resp: 150452

Ion Ratio Lower Upper

164 100

162 98.4 74.7 112.1

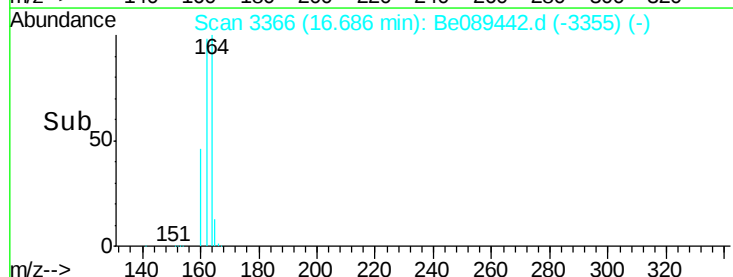
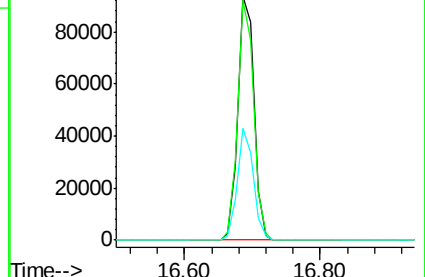
160 46.0 33.4 50.0



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: 1.03 ng

RT: 15.14 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

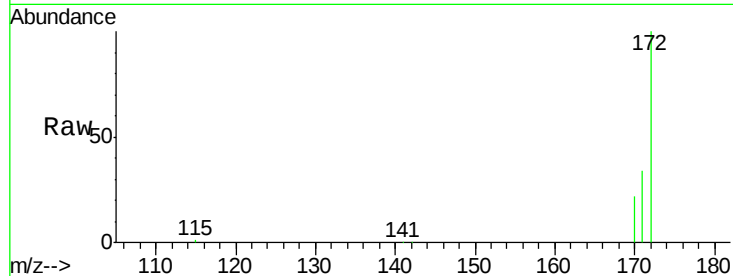
Tgt Ion:172 Resp: 40882

Ion Ratio Lower Upper

172 100

171 33.5 26.2 39.4

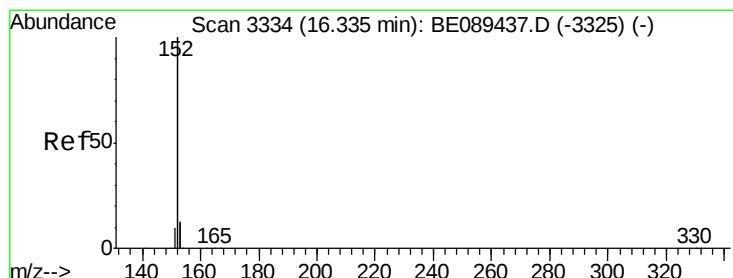
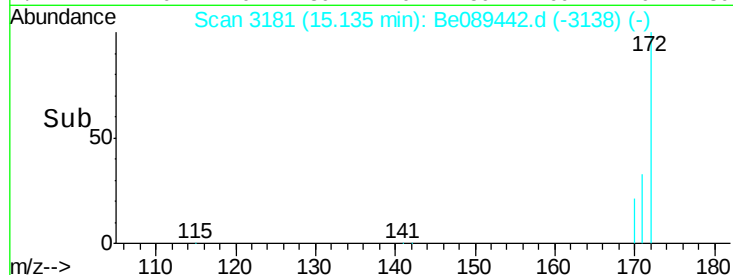
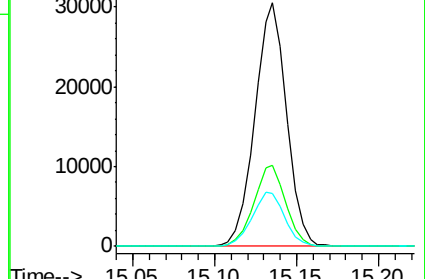
170 21.5 16.5 24.7



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: 1.02 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

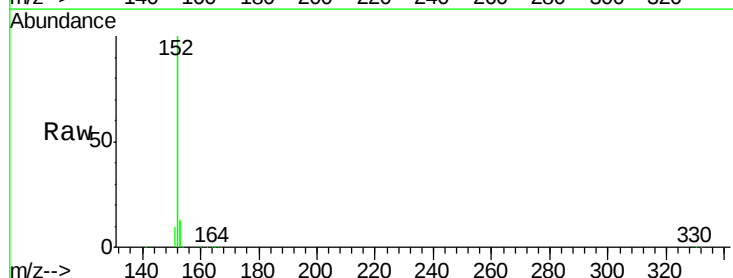
Tgt Ion:152 Resp: 274820

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

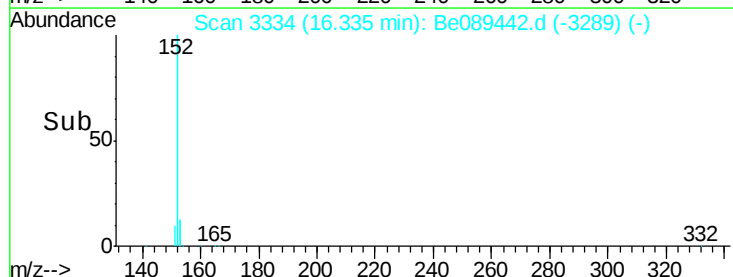
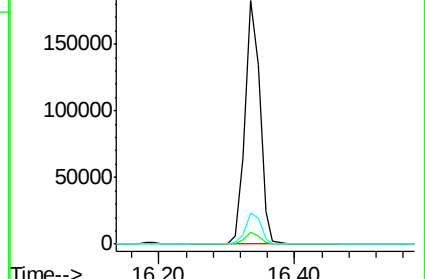
153 13.0 10.3 15.5



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: 1.02 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

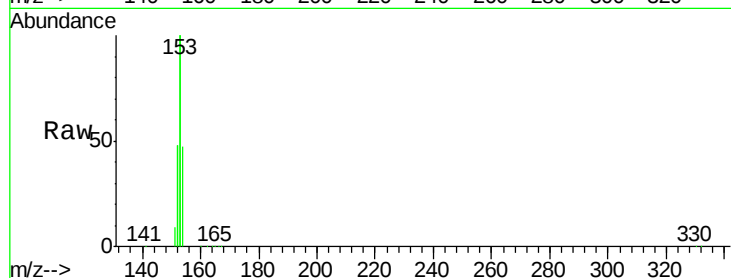
Tgt Ion:154 Resp: 41422

Ion Ratio Lower Upper

154 100

153 427.7 342.3 513.5

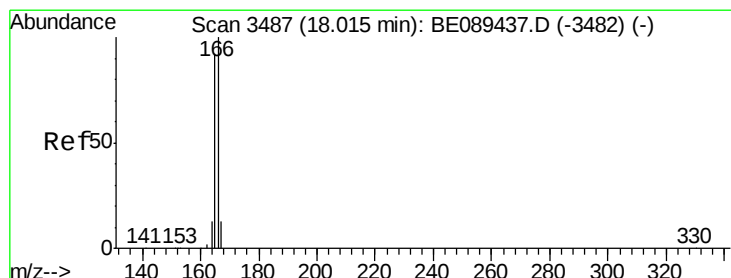
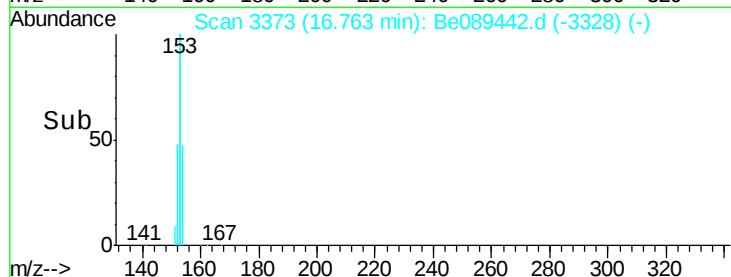
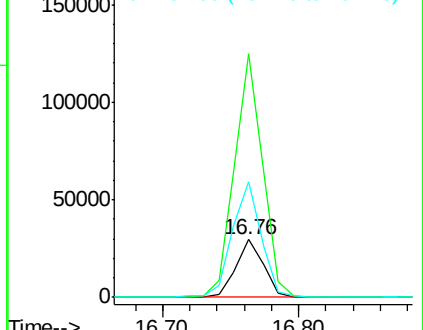
152 209.3 165.5 248.3



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: 0.99 ng

RT: 18.01 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

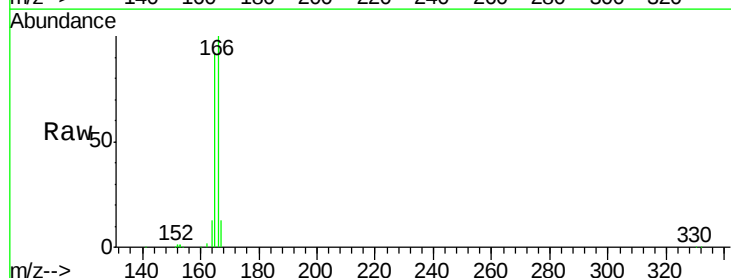
Tgt Ion:166 Resp: 44796

Ion Ratio Lower Upper

166 100

165 91.8 74.4 111.6

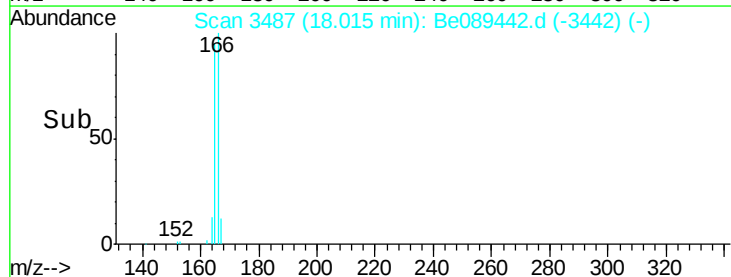
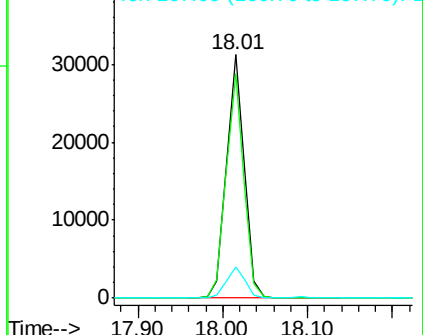
167 12.9 10.6 15.8

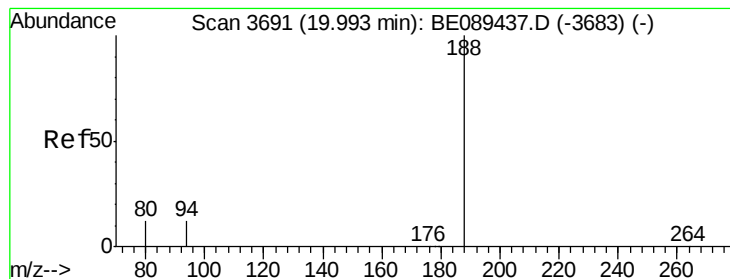


Abundance Ion 166.00 (165.70 to 166.70): E

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: Be089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

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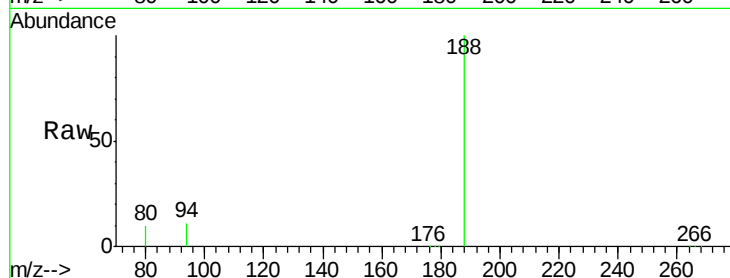
Tgt Ion:188 Resp: 260761

Ion Ratio Lower Upper

188 100

94 10.6 9.4 14.0

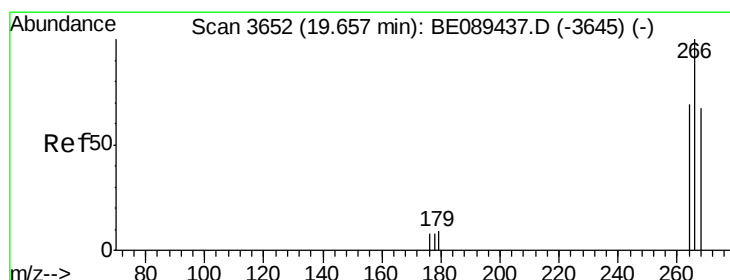
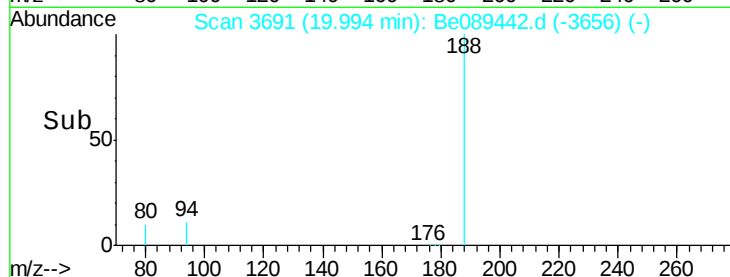
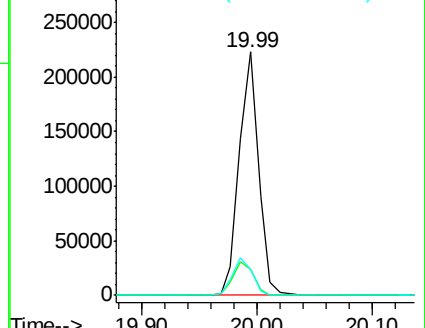
80 10.4 9.3 13.9



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: 13.41 ng

RT: 19.66 min Scan# 3652

Delta R.T. 0.00 min

Lab File: Be089442.d

Acq: 30 Jan 2015 17:22

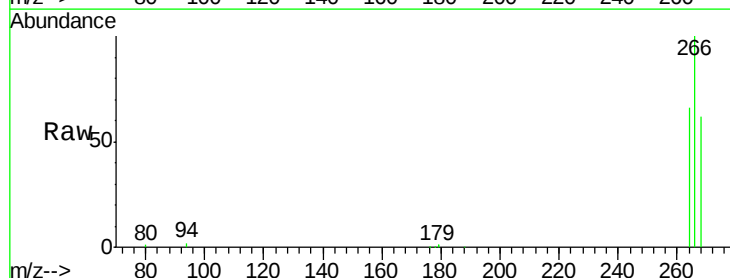
Tgt Ion:266 Resp: 49177

Ion Ratio Lower Upper

266 100

268 61.8 54.2 81.4

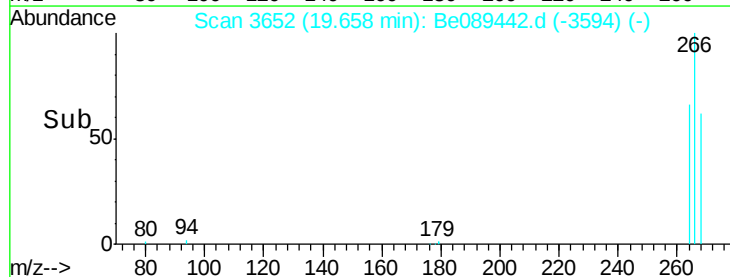
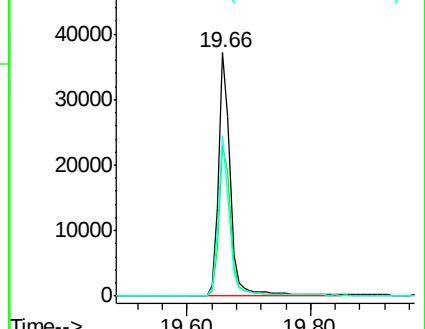
264 66.0 56.2 84.2



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: 1.03 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: Be089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

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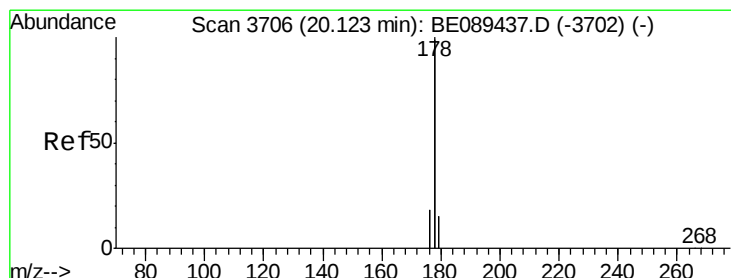
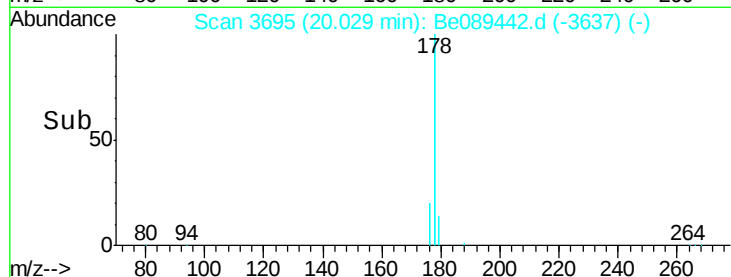
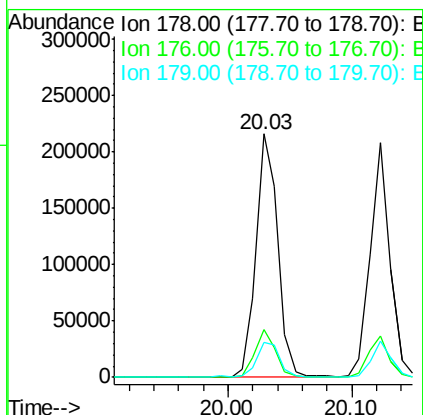
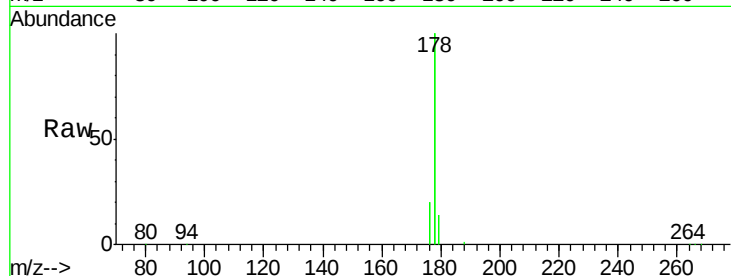
Tgt Ion:178 Resp: 263179

Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

179 15.6 12.3 18.5



#14

Anthracene

Concen: 1.01 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: Be089442.d

Acq: 30 Jan 2015 17:22

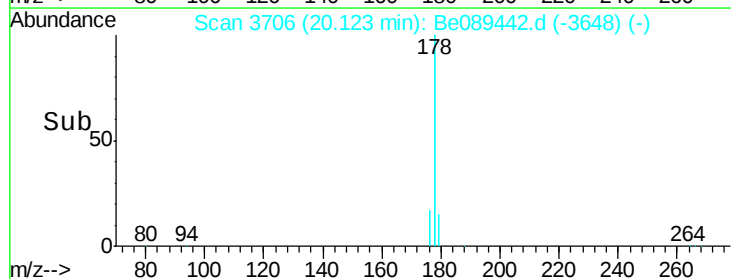
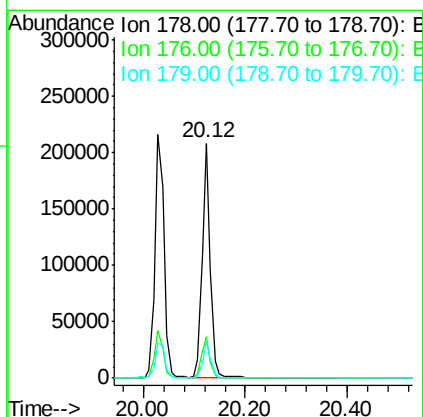
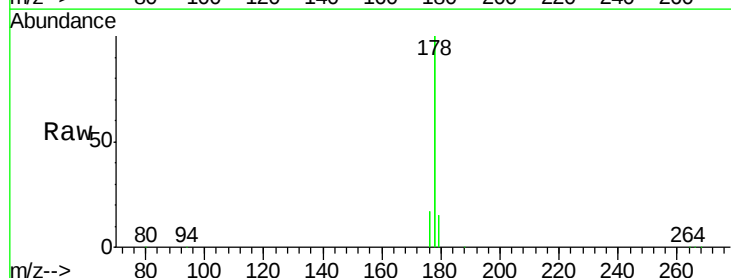
Tgt Ion:178 Resp: 236273

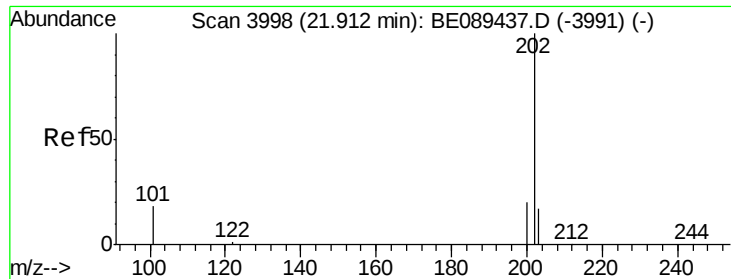
Ion Ratio Lower Upper

178 100

176 17.6 14.6 22.0

179 15.2 12.2 18.2





#15

Fluoranthene

Concen: 0.97 ng

RT: 21.92 min Scan# 3998

Delta R.T. 0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

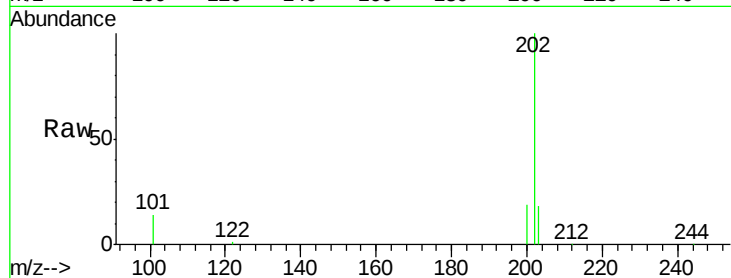
Tgt Ion:202 Resp: 54473

Ion Ratio Lower Upper

202 100

101 17.2 13.6 20.4

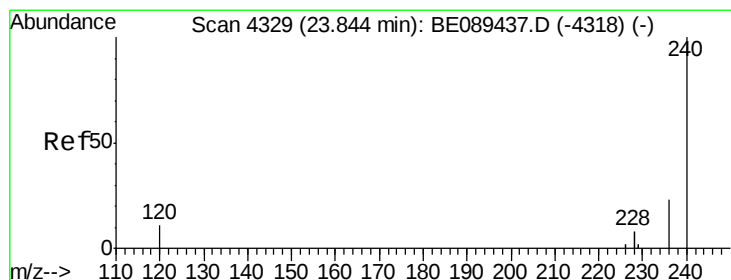
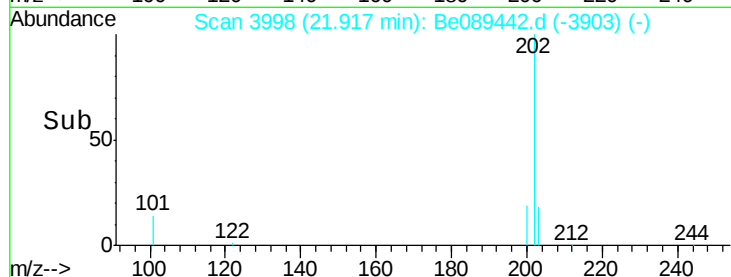
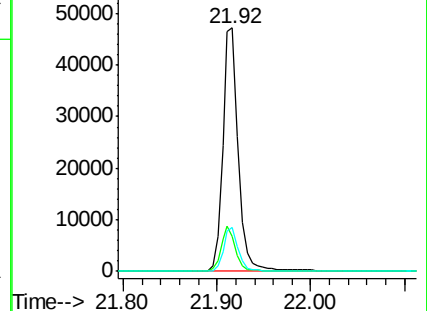
203 17.3 13.8 20.6



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



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.85 min Scan# 4328

Delta R.T. 0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

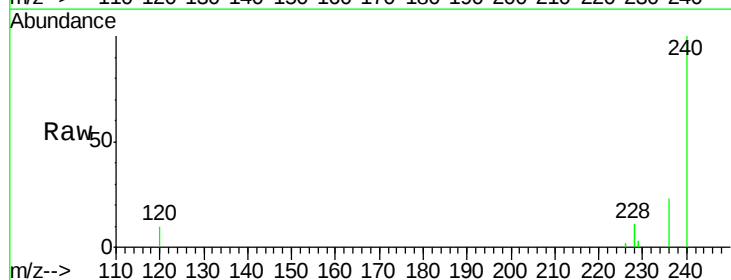
Tgt Ion:240 Resp: 214742

Ion Ratio Lower Upper

240 100

120 9.8 8.6 13.0

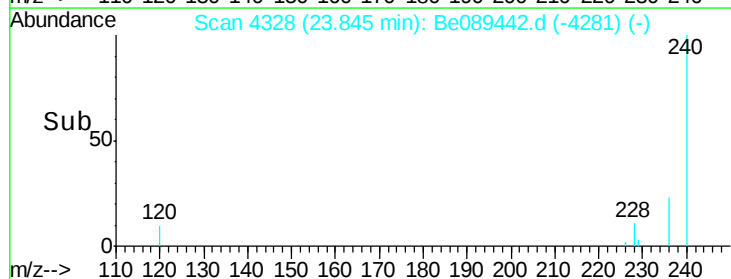
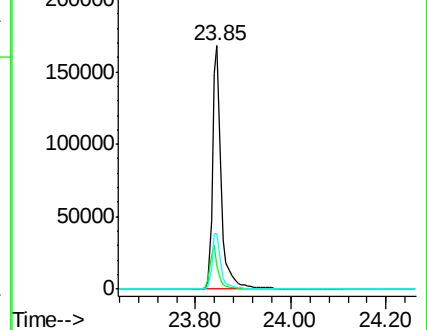
236 22.8 18.7 28.1



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





#17

Pyrene

Concen: 1.07 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

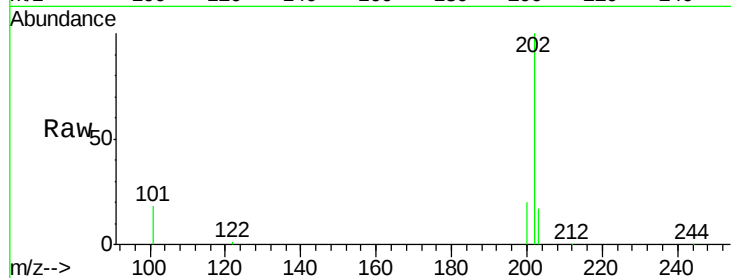
Tgt Ion:202 Resp: 61194

Ion Ratio Lower Upper

202 100

200 20.3 16.2 24.4

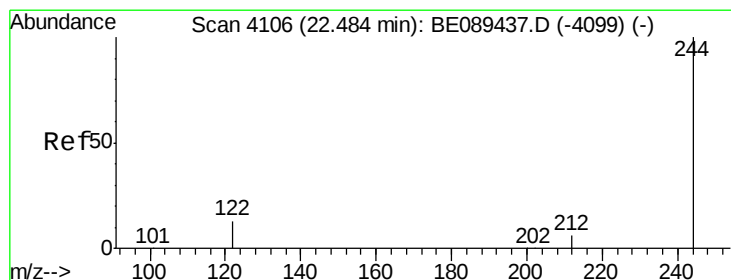
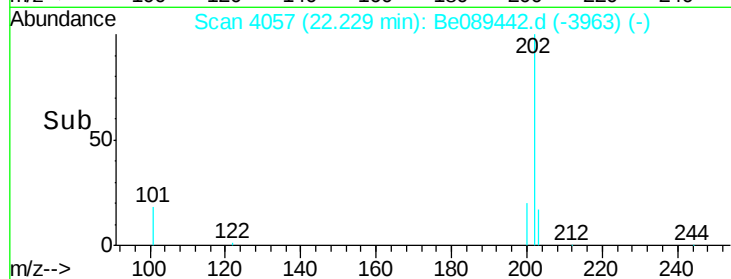
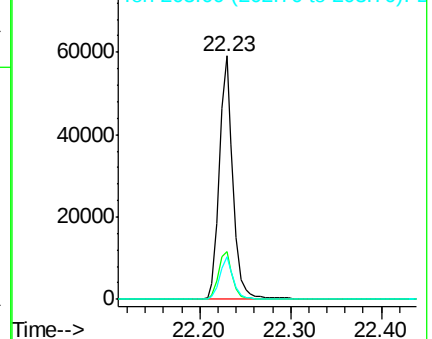
203 17.2 13.8 20.8



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: 1.01 ng

RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

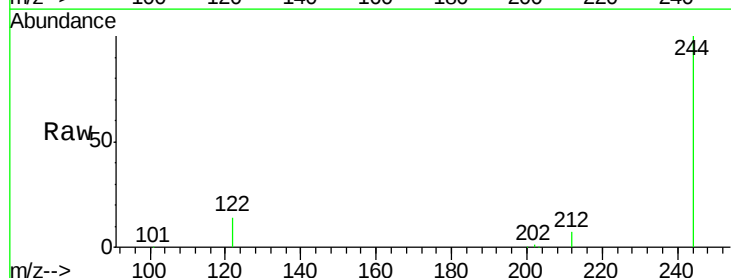
Tgt Ion:244 Resp: 32416

Ion Ratio Lower Upper

244 100

212 6.8 5.0 7.6

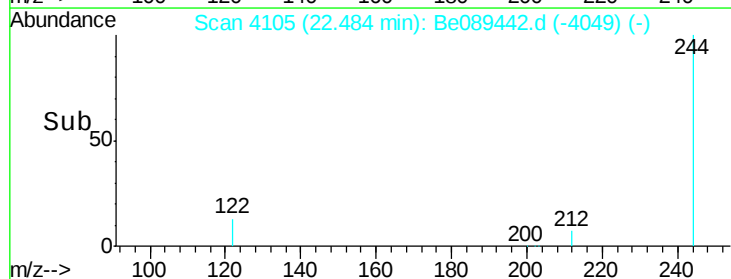
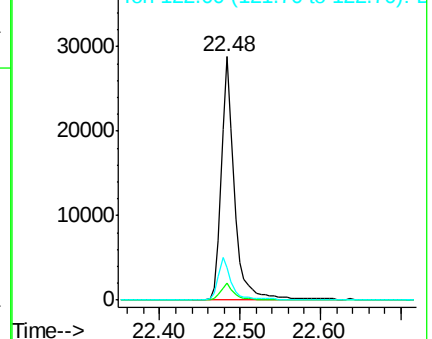
122 13.5 10.2 15.4



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: 0.95 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

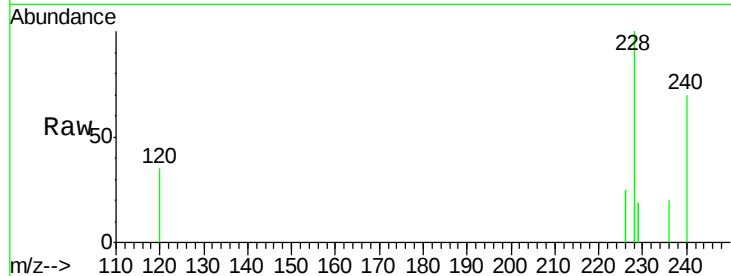
Tgt Ion:228 Resp: 171035

Ion Ratio Lower Upper

228 100

226 24.7 20.0 30.0

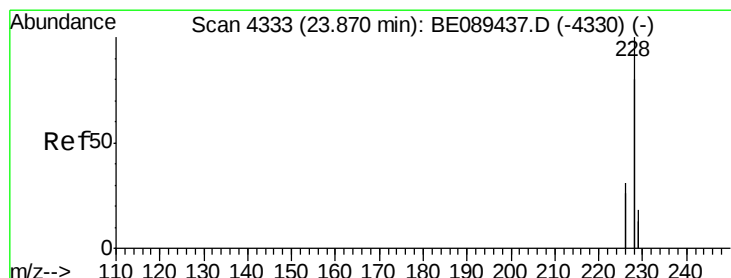
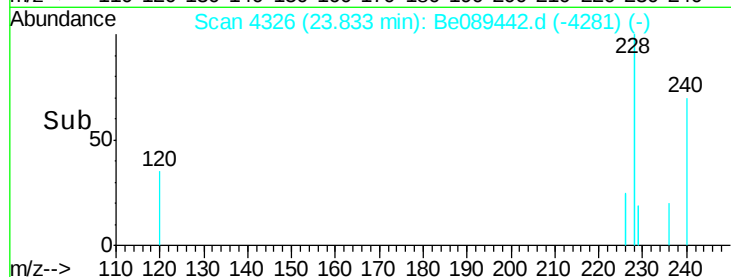
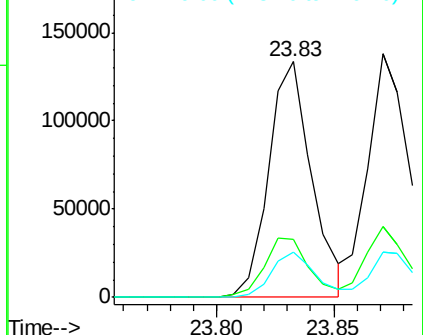
229 19.4 16.0 24.0



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: 1.04 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

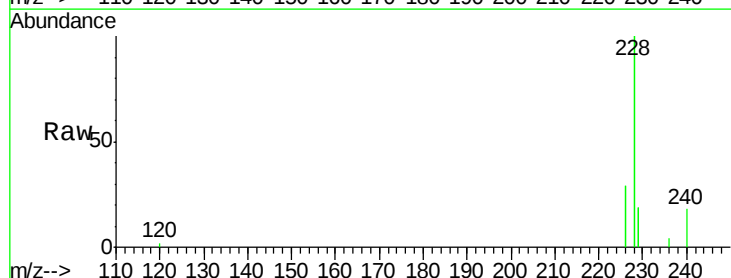
Tgt Ion:228 Resp: 212717

Ion Ratio Lower Upper

228 100

226 29.2 24.5 36.7

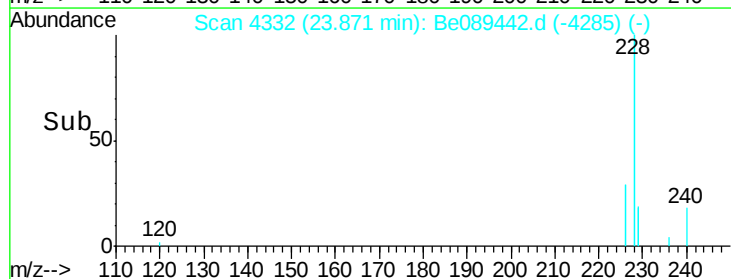
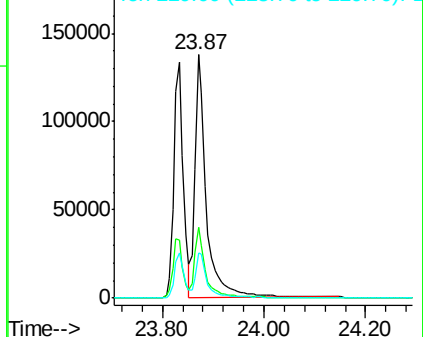
229 18.6 14.1 21.1



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: 0.83 ng

RT: 27.06 min Scan# 4949

Delta R.T. -0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

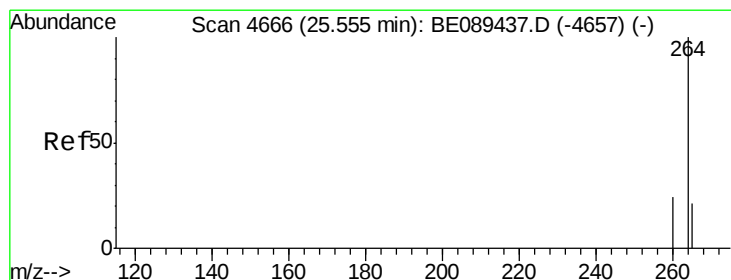
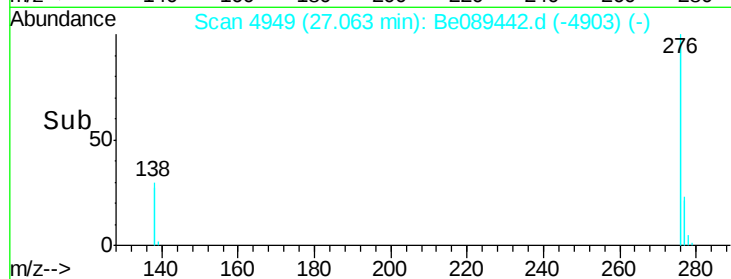
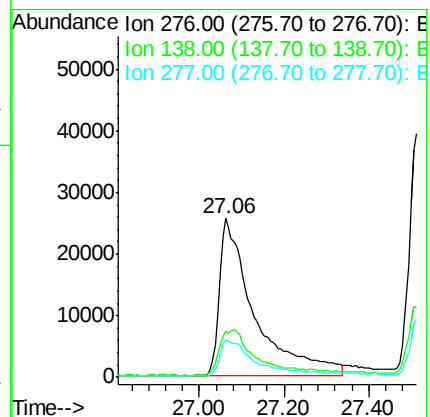
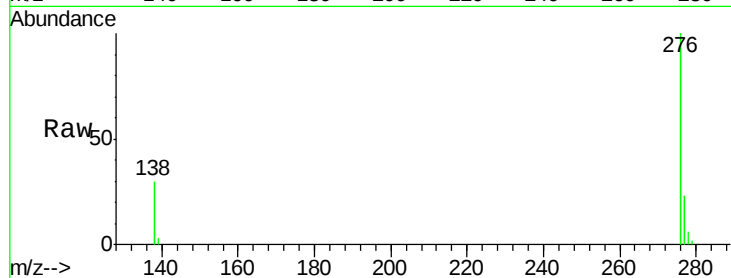
Tgt Ion:276 Resp: 148335

Ion Ratio Lower Upper

276 100

138 29.1 25.4 38.0

277 23.5 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.56 min Scan# 4665

Delta R.T. 0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

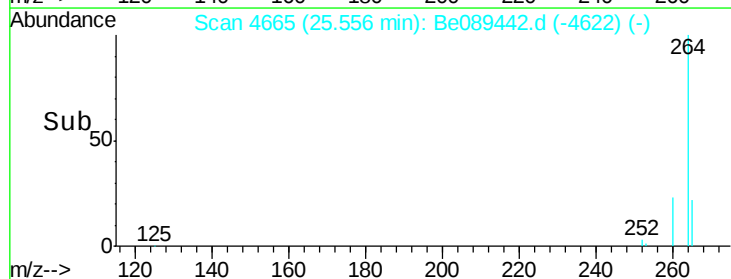
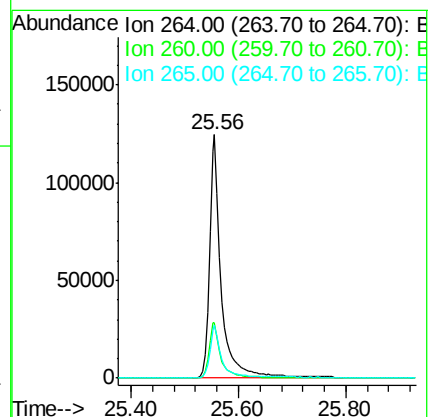
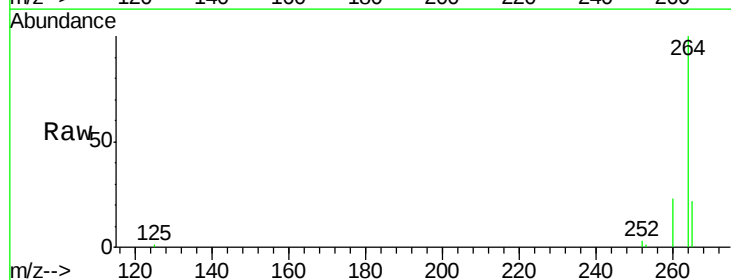
Tgt Ion:264 Resp: 193833

Ion Ratio Lower Upper

264 100

260 23.0 19.4 29.0

265 21.8 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.84 ng

RT: 25.10 min Scan# 4565

Delta R.T. 0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

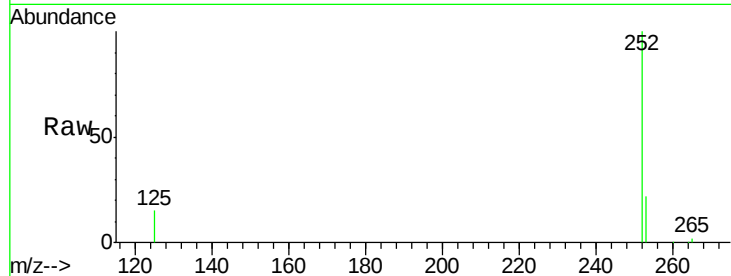
Tgt Ion:252 Resp: 23397

Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.6

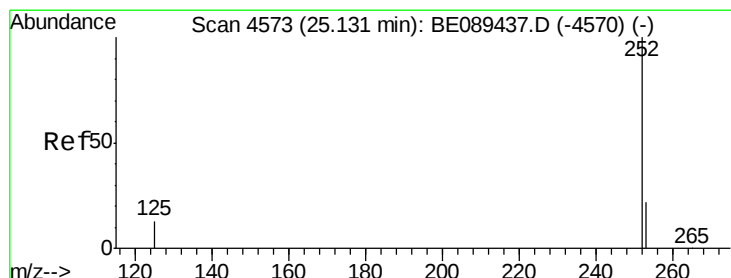
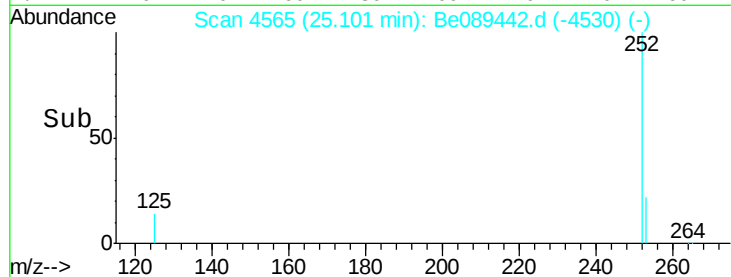
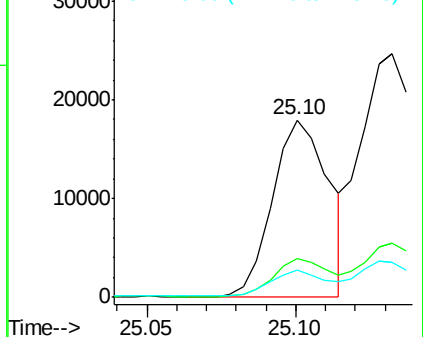
125 15.1 11.4 17.0



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: 1.18 ng

RT: 25.13 min Scan# 4572

Delta R.T. 0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

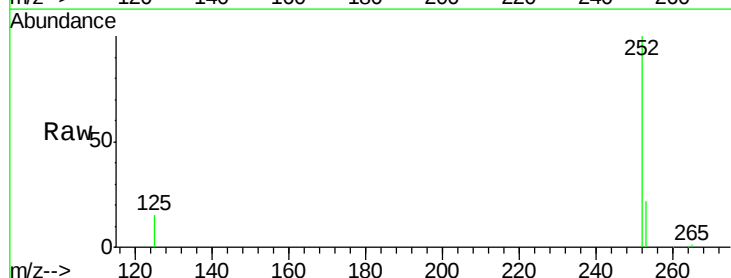
Tgt Ion:252 Resp: 58060

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

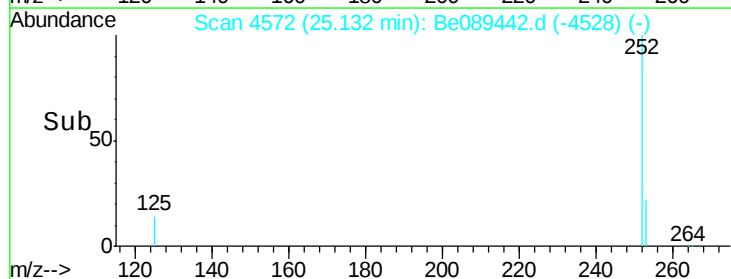
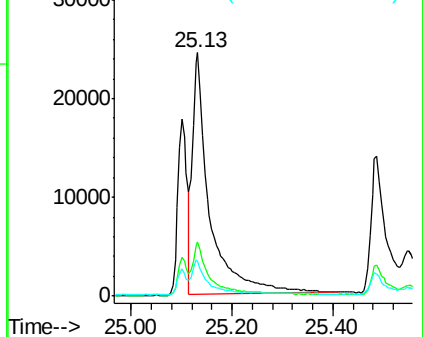
125 14.5 10.9 16.3



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: 0.88 ng

RT: 25.49 min Scan# 4650

Delta R.T. 0.00 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015

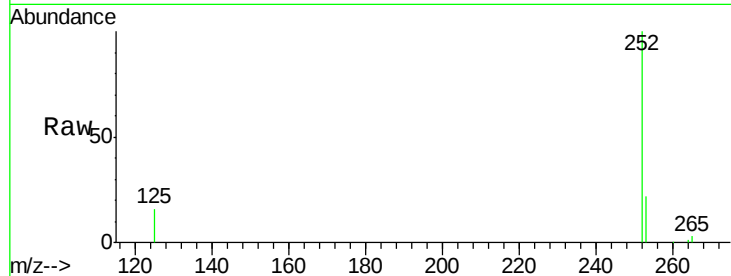
Tgt Ion:252 Resp: 27185

Ion Ratio Lower Upper

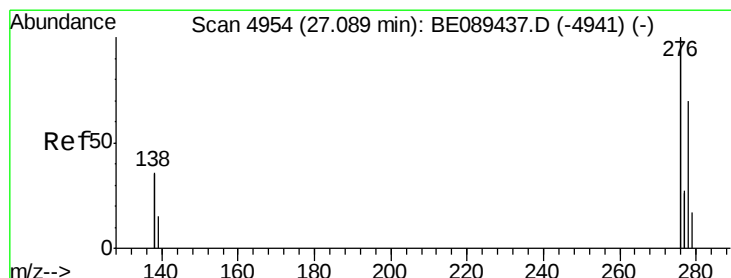
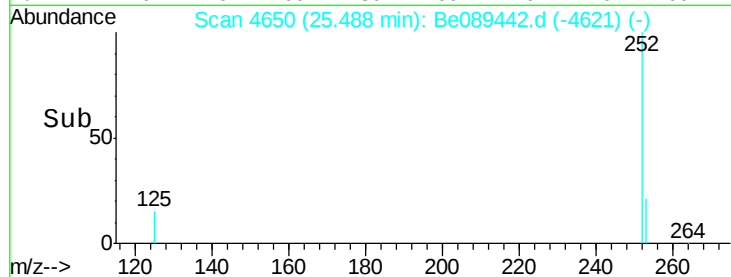
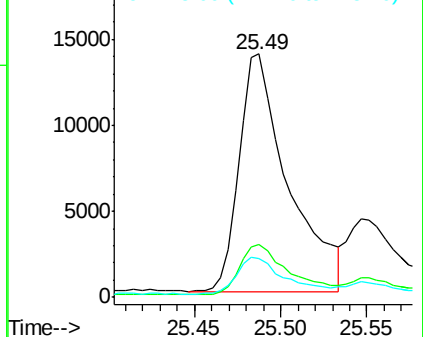
252 100

253 22.0 17.3 25.9

125 16.0 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: 0.82 ng

RT: 27.10 min Scan# 4954

Delta R.T. 0.01 min

Lab File: BE089442.d

Acq: 30 Jan 2015 17:22

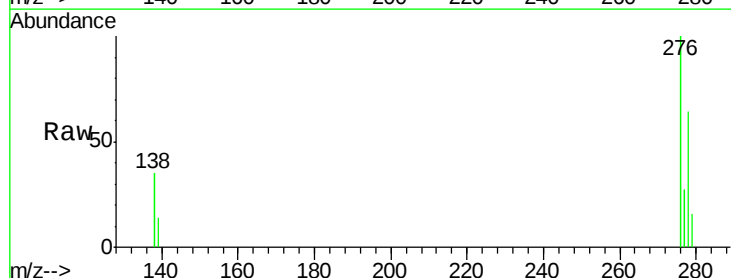
Tgt Ion:278 Resp: 28122

Ion Ratio Lower Upper

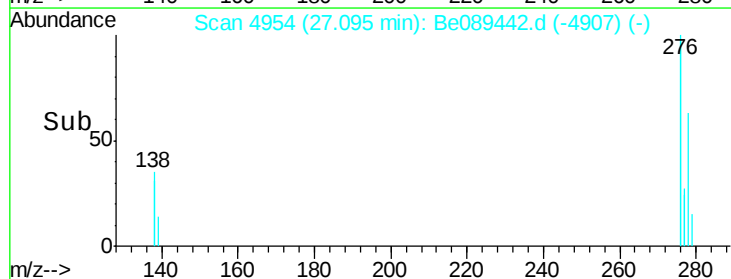
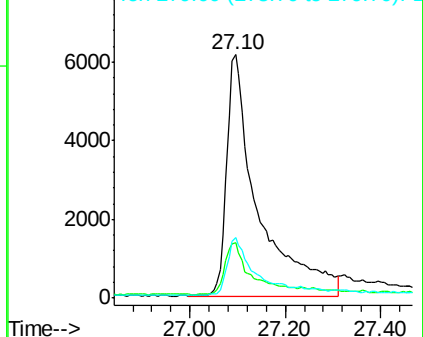
278 100

139 22.6 17.0 25.4

279 24.9 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: 0.91 ng

RT: 27.51 min Scan# 5018

Delta R.T. 0.01 min

Lab File: BE089442.d

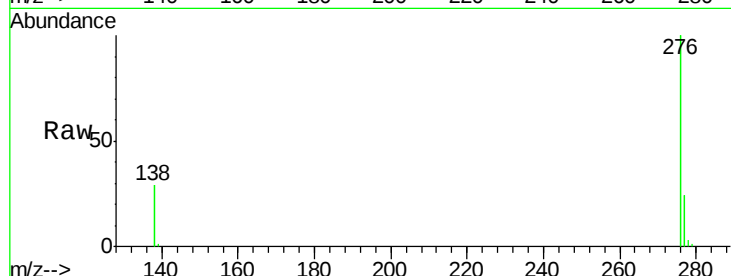
Acq: 30 Jan 2015 17:22

Instrument :

BNA_E

ClientSampleId :

ICVBE123015



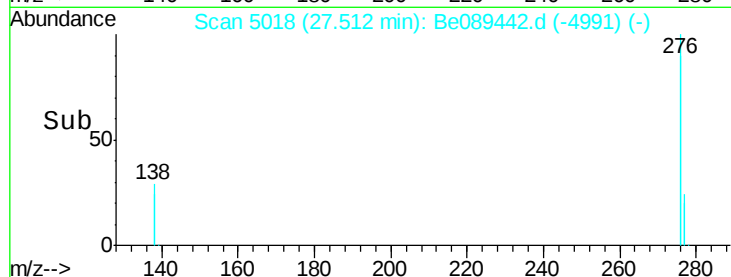
Tgt Ion: 276 Resp: 141672

Ion Ratio Lower Upper

276 100

277 24.0 18.4 27.6

138 28.6 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

