

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089543.D
 Acq On : 7 Feb 2015 2:54
 Operator : TP/IZ
 Sample : PB81635BSD
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81635BSD

Quant Time: Feb 07 06:02:29 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	29766	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	105979	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	39382	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	67869	5.00	ng	0.00
16) Chrysene-d12	23.72	240	90075	5.00	ng	0.00
22) Perylene-d12	25.41	264	102324	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	61358	8.72	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	86995	8.28	ng	0.00
18) Terphenyl-d14	22.36	244	89815	7.56	ng	0.00

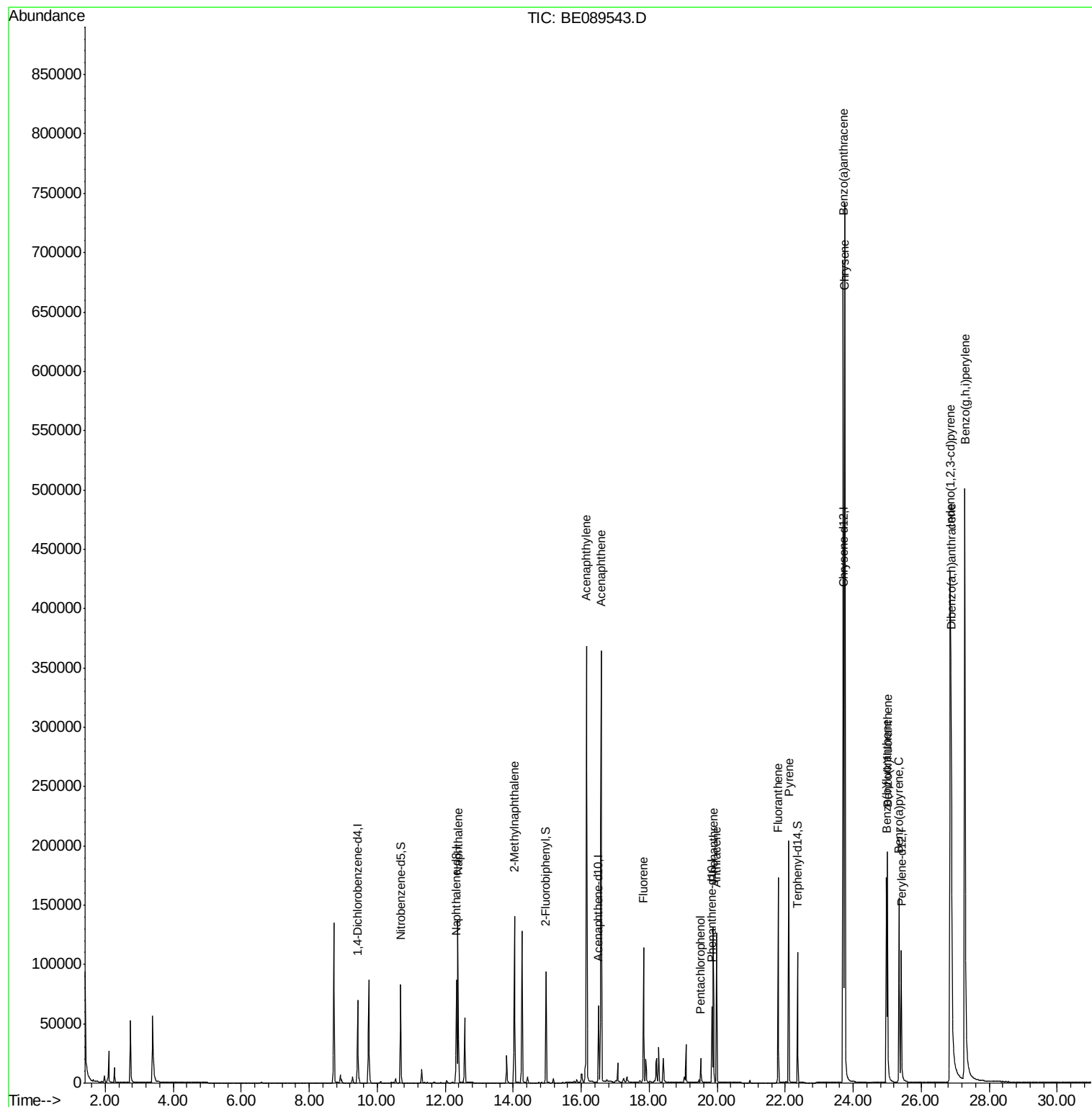
Target Compounds				Qvalue		
4) Naphthalene	12.38	128	163045	6.83	ng	99
5) 2-Methylnaphthalene	14.03	142	91859	6.77	ng	98
8) Acenaphthylene	16.16	152	486985	7.35	ng	99
9) Acenaphthene	16.59	154	70949	6.74	ng	98
10) Fluorene	17.84	166	78859	7.07	ng	98
12) Pentachlorophenol	19.52	266	11891	12.33	ng	# 86
13) Phenanthrene	19.89	178	116492	6.93	ng	100
14) Anthracene	19.98	178	116071	8.17	ng	99
15) Fluoranthene	21.79	202	122526	7.82	ng	98
17) Pyrene	22.10	202	136430	7.11	ng	99
19) Benzo(a)anthracene	23.70	228	561650	7.01	ng	# 91
20) Chrysene	23.75	228	602199	7.40	ng	91
21) Indeno(1,2,3-cd)pyrene	26.85	276	863530	7.63	ng	99
23) Benzo(b)fluoranthene	24.98	252	141248	7.11	ng	98
24) Benzo(k)fluoranthene	25.01	252	194915	7.89	ng	98
25) Benzo(a)pyrene	25.35	252	155410	7.86	ng	98
26) Dibenzo(a,h)anthracene	26.89	278	191108	7.88	ng	# 96
27) Benzo(g,h,i)perylene	27.29	276	760970	7.69	ng	96

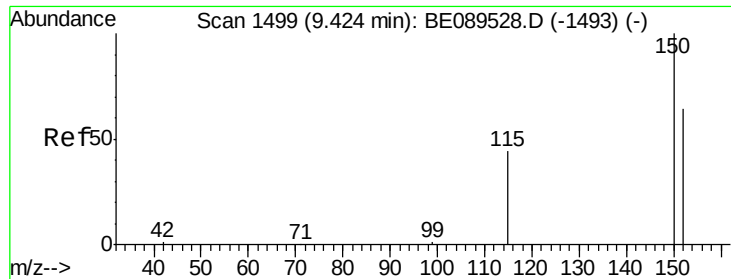
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

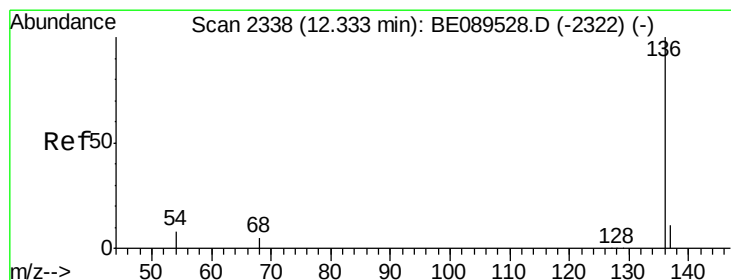
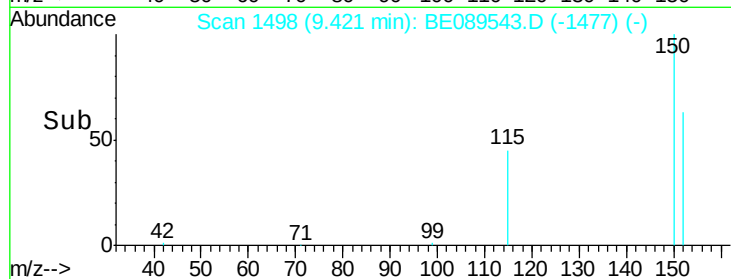
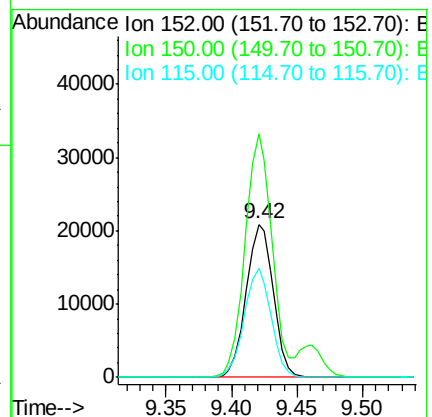
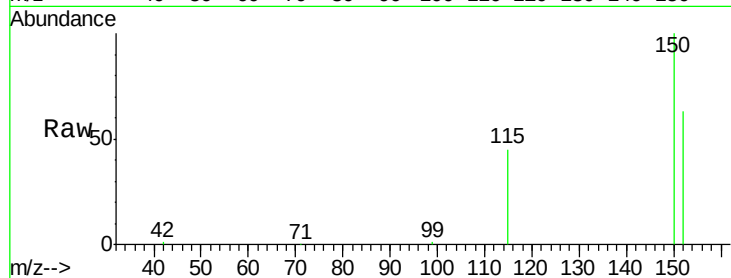
Tgt Ion:152 Resp: 29766

Ion Ratio Lower Upper

152 100

150 159.1 125.7 188.5

115 71.8 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2338

Delta R.T. -0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

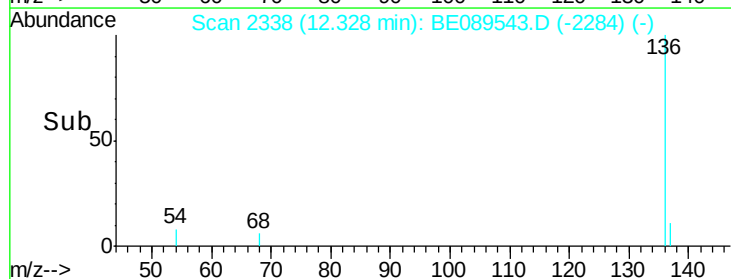
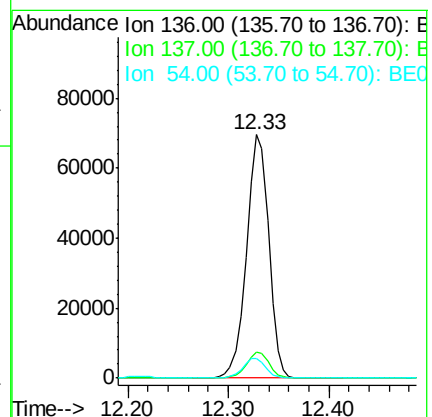
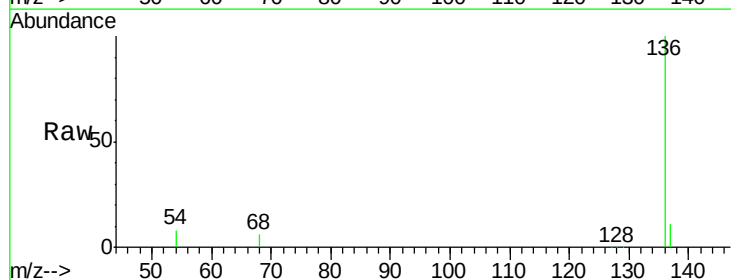
Tgt Ion:136 Resp: 105979

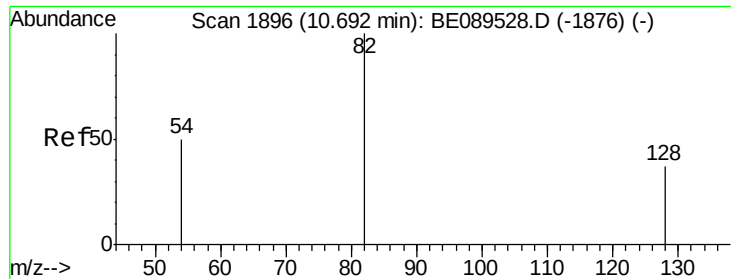
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 8.2 6.1 9.1





#3

Nitrobenzene-d5

Concen: 8.72 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

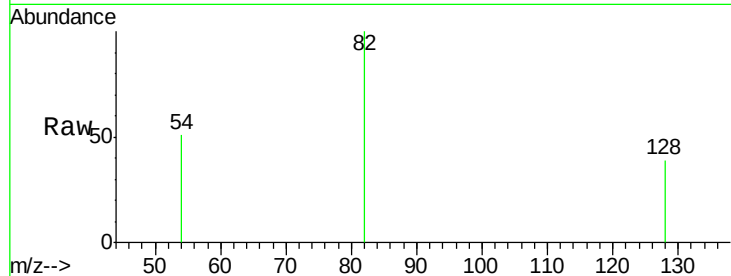
Tgt Ion: 82 Resp: 61358

Ion Ratio Lower Upper

82 100

128 38.6 30.2 45.4

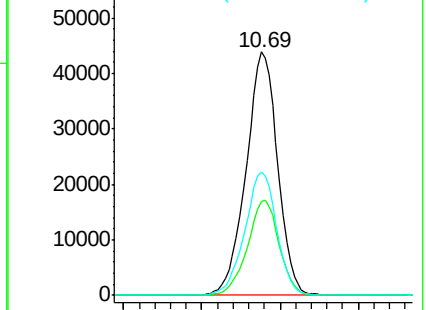
54 50.8 40.6 60.8



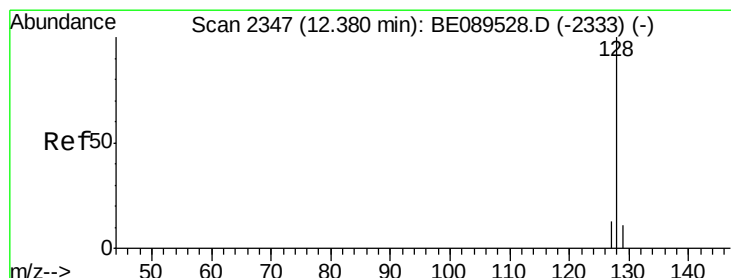
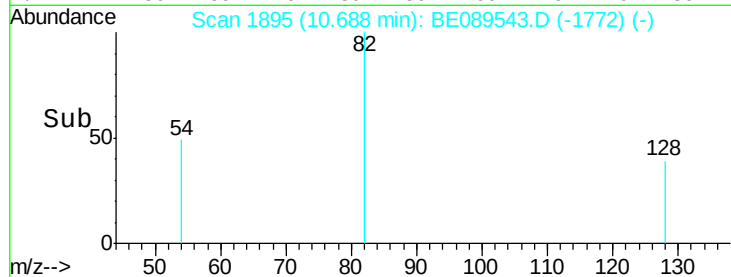
Abundance Ion 82.00 (81.70 to 82.70): BE089543.D (-1772) (-)

Ion 128.00 (127.70 to 128.70): BE089543.D (-1772) (-)

Ion 54.00 (53.70 to 54.70): BE089543.D (-1772) (-)



Time--> 10.60 10.65 10.70 10.75



#4

Naphthalene

Concen: 6.83 ng

RT: 12.38 min Scan# 2347

Delta R.T. -0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

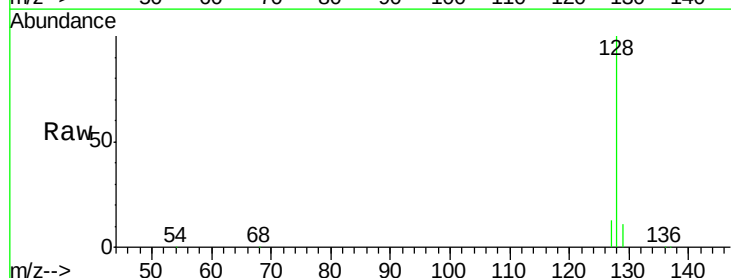
Tgt Ion: 128 Resp: 163045

Ion Ratio Lower Upper

128 100

129 10.9 9.1 13.7

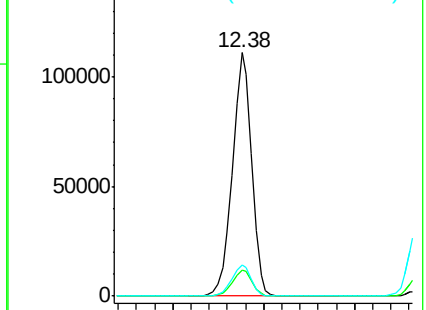
127 12.9 10.5 15.7



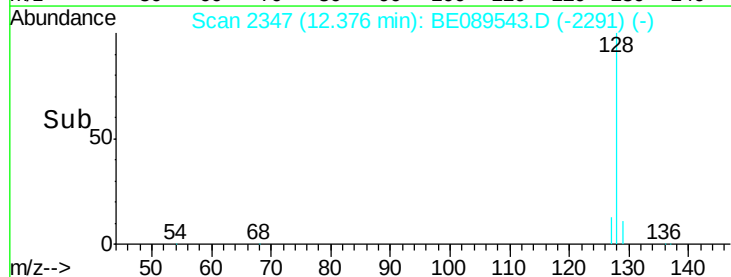
Abundance Ion 128.00 (127.70 to 128.70): BE089543.D (-2291) (-)

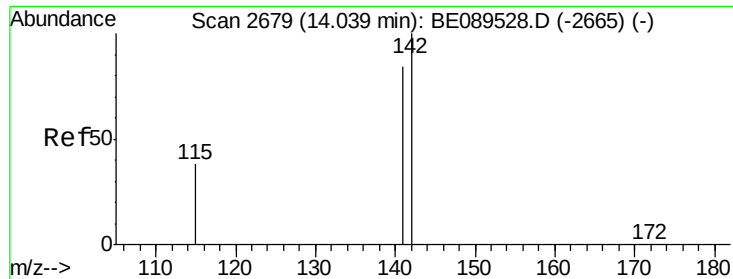
Ion 129.00 (128.70 to 129.70): BE089543.D (-2291) (-)

Ion 127.00 (126.70 to 127.70): BE089543.D (-2291) (-)



Time--> 12.30 12.40 12.50





#5

2-Methylnaphthalene

Concen: 6.77 ng

RT: 14.03 min Scan# 2679

Delta R.T. -0.01 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

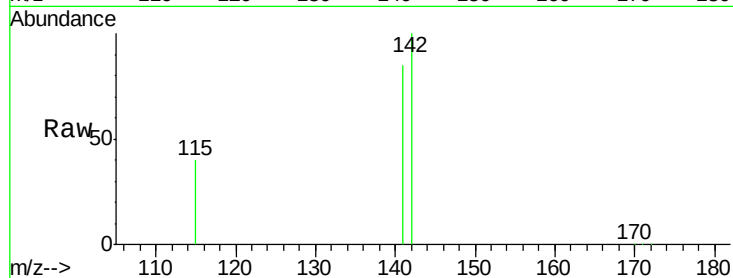
Tgt Ion:142 Resp: 91859

Ion Ratio Lower Upper

142 100

141 85.2 67.0 100.6

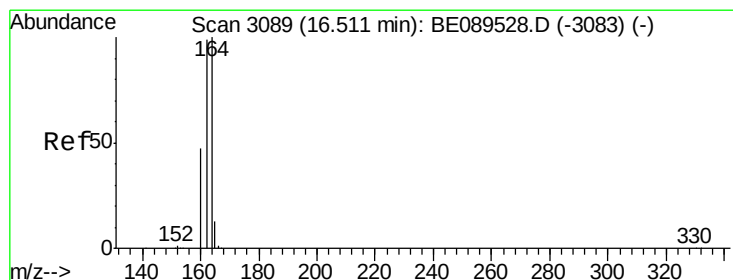
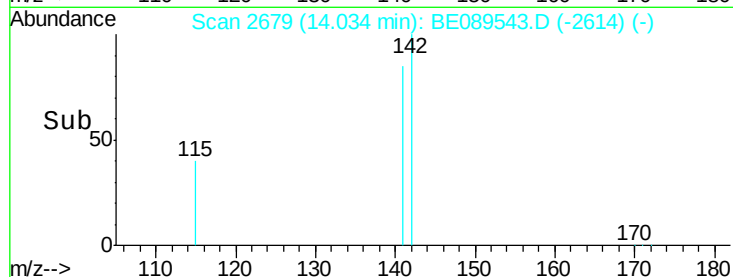
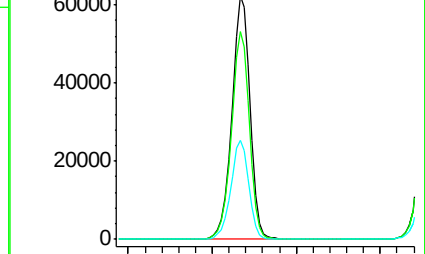
115 40.5 30.6 45.8



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: 16.51 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

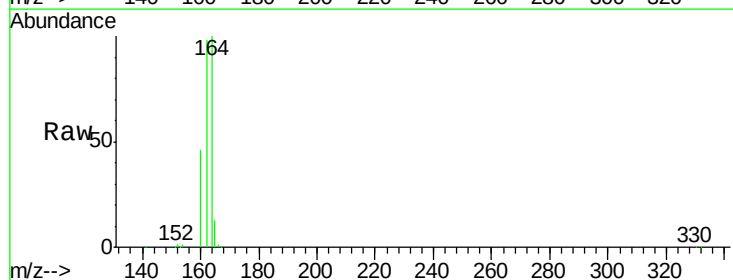
Tgt Ion:164 Resp: 39382

Ion Ratio Lower Upper

164 100

162 97.7 79.5 119.3

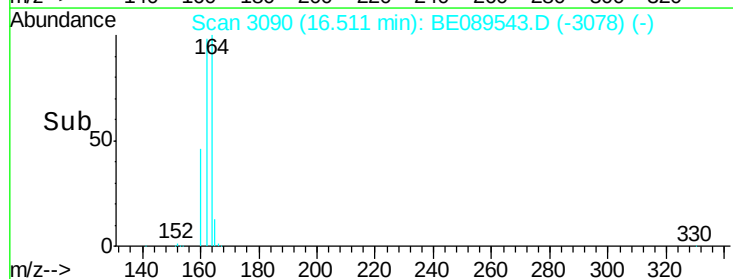
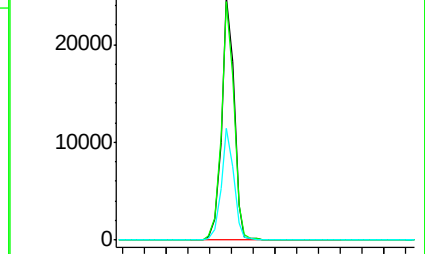
160 45.8 37.6 56.4

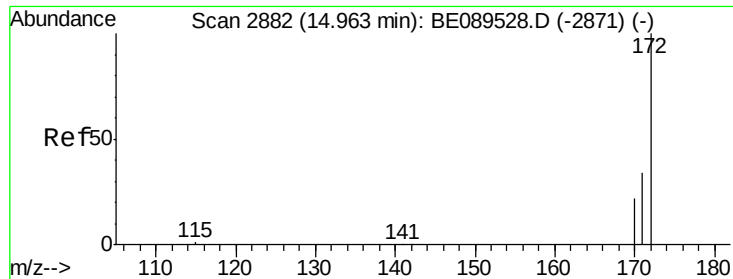


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 8.28 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

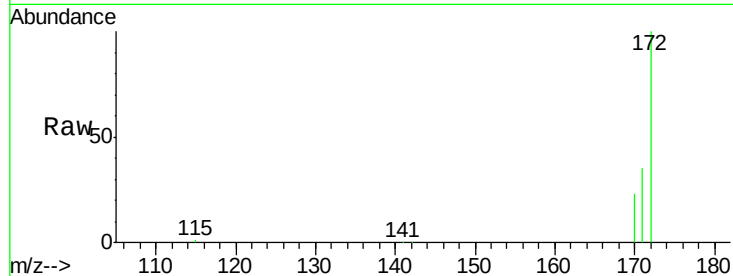
Tgt Ion:172 Resp: 86995

Ion Ratio Lower Upper

172 100

171 35.0 27.7 41.5

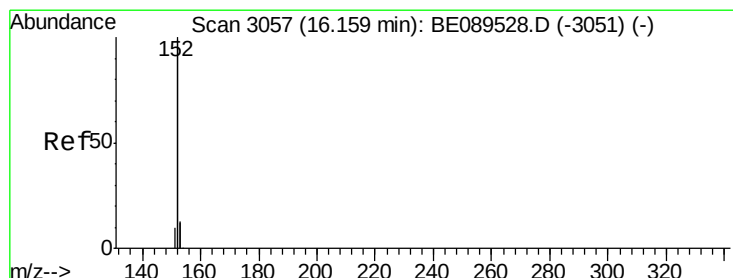
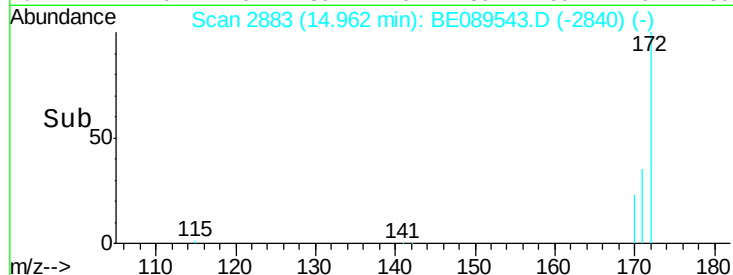
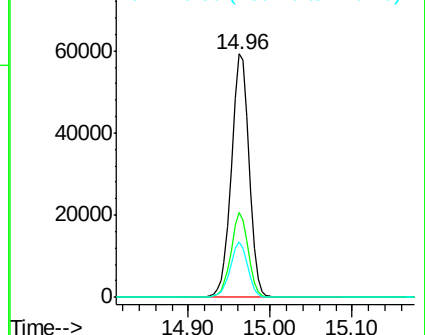
170 23.0 18.3 27.5



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: 7.35 ng

RT: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

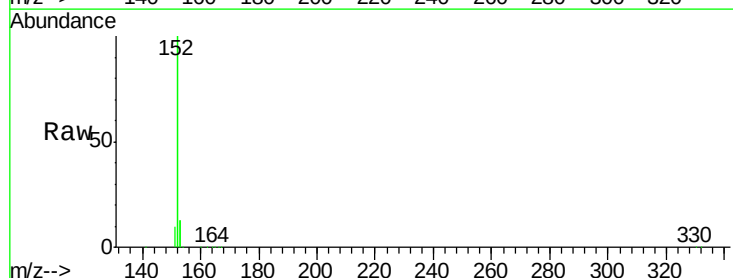
Tgt Ion:152 Resp: 486985

Ion Ratio Lower Upper

152 100

151 4.9 4.0 6.0

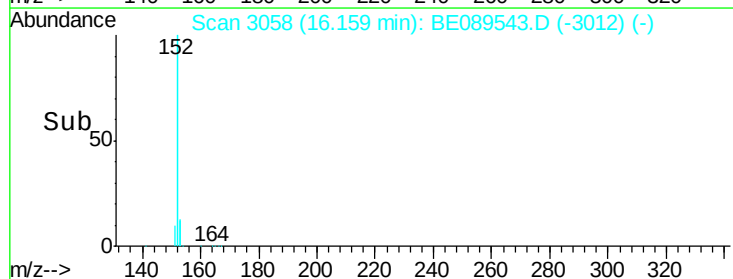
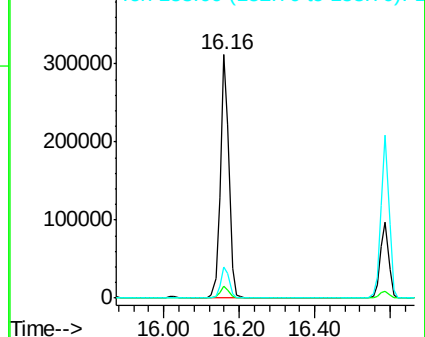
153 12.9 10.6 15.8

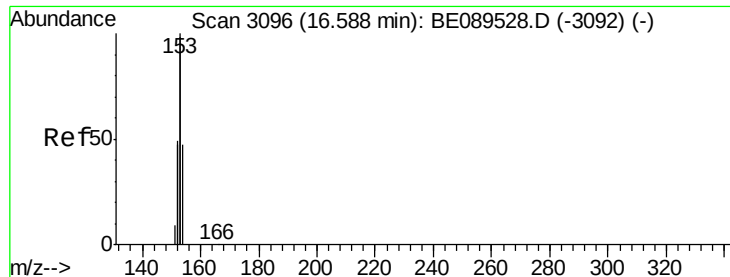


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 6.74 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

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PB81635BSD

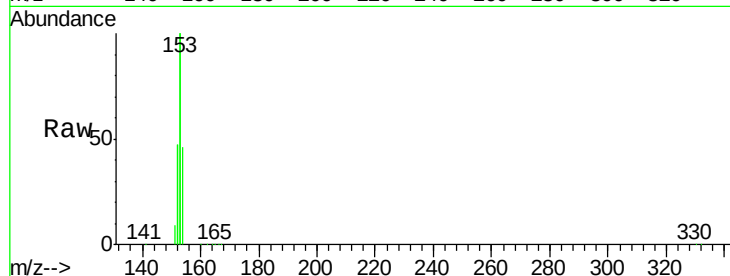
Tgt Ion:154 Resp: 70949

Ion Ratio Lower Upper

154 100

153 434.0 340.8 511.2

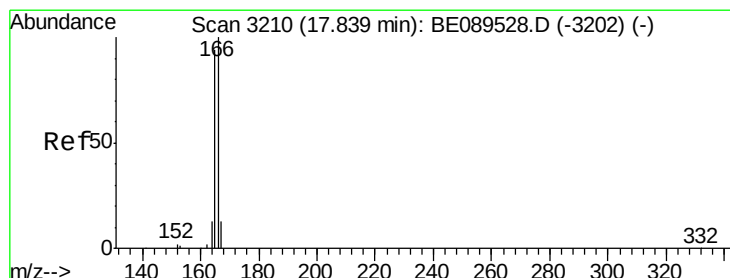
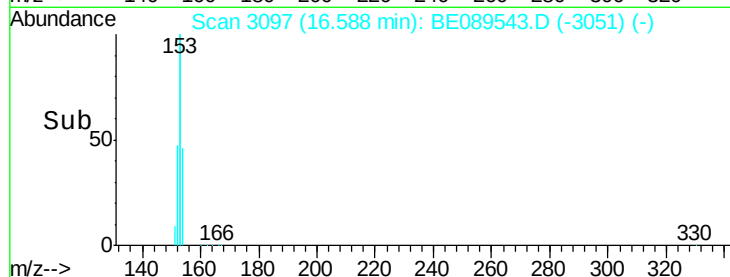
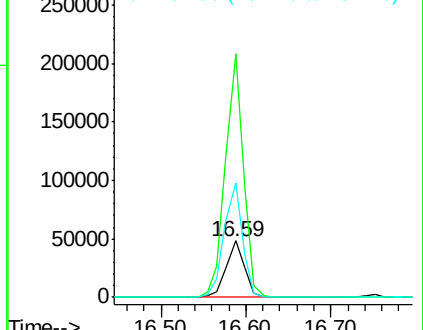
152 208.2 165.5 248.3



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: 7.07 ng

RT: 17.84 min Scan# 3211

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

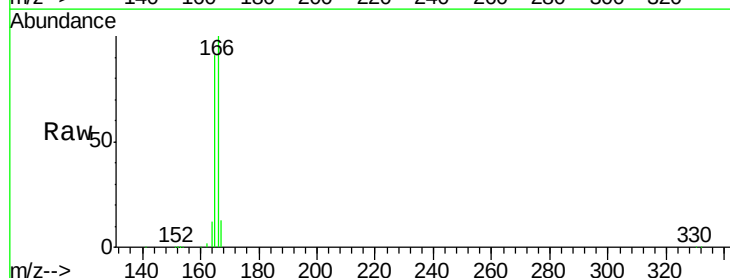
Tgt Ion:166 Resp: 78859

Ion Ratio Lower Upper

166 100

165 92.2 75.5 113.3

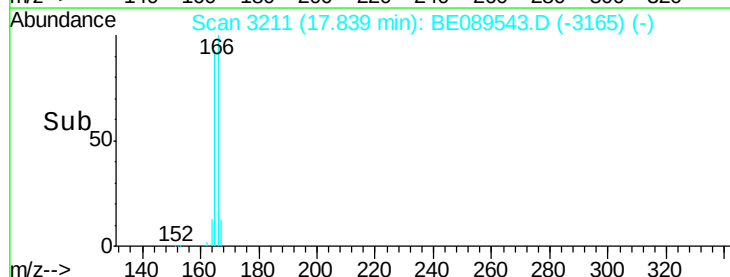
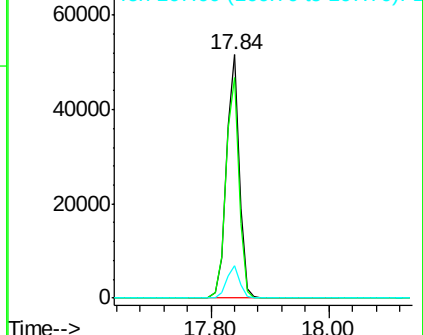
167 13.2 10.9 16.3

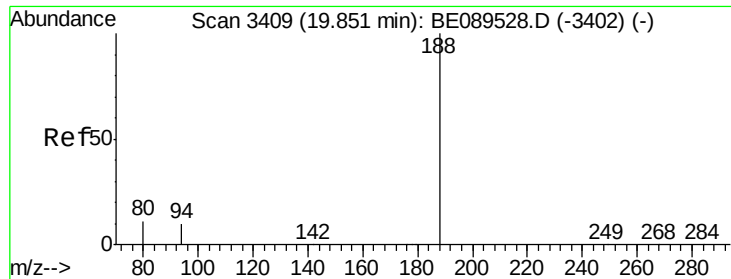


Abundance Ion 166.00 (165.70 to 166.70): E

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: 19.84 min Scan# 3409

Delta R.T. -0.01 min

Lab File: BE089543.D

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Instrument :

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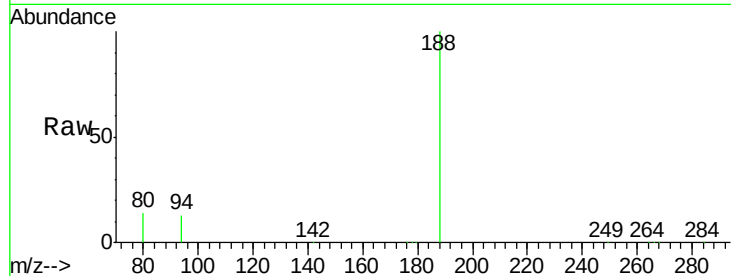
Tgt Ion:188 Resp: 67869

Ion Ratio Lower Upper

188 100

94 12.9 8.4 12.6#

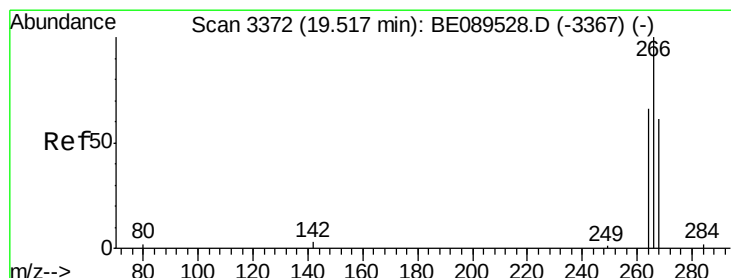
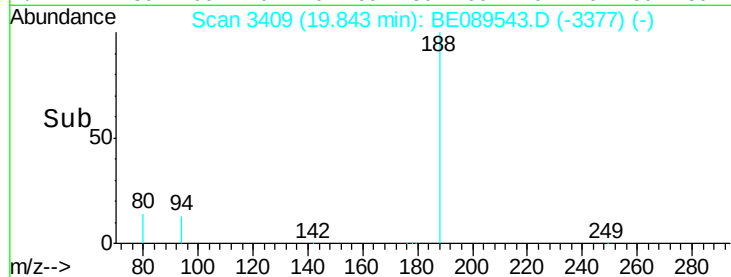
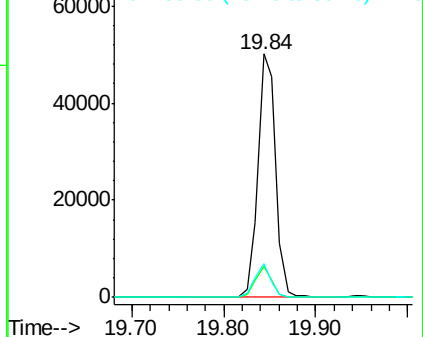
80 14.0 8.6 12.8#



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: 12.33 ng

RT: 19.52 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

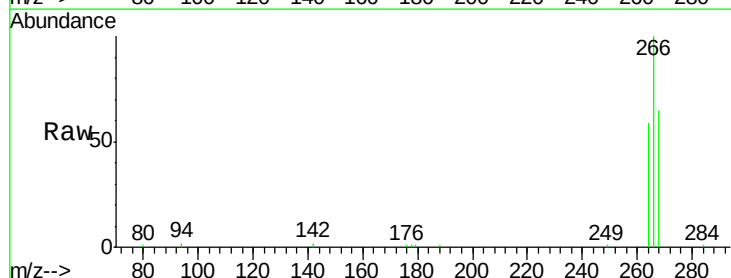
Tgt Ion:266 Resp: 11891

Ion Ratio Lower Upper

266 100

268 65.1 57.9 86.9

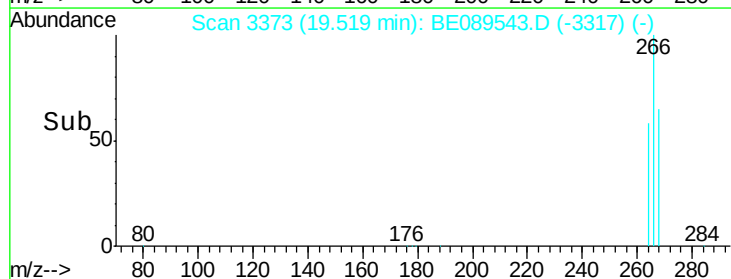
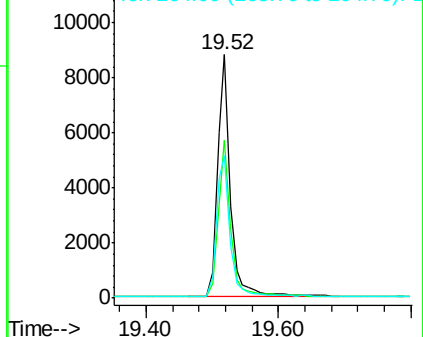
264 58.6 60.2 90.4#

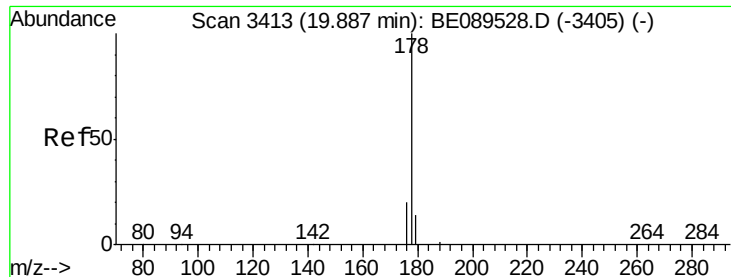


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

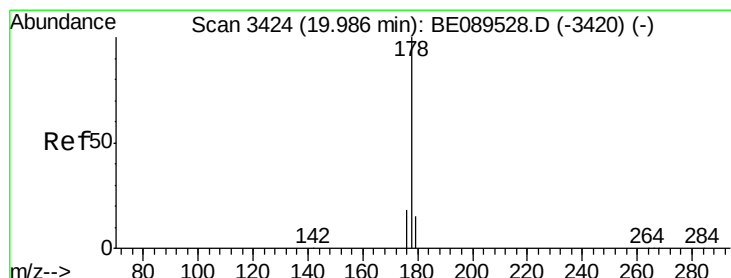
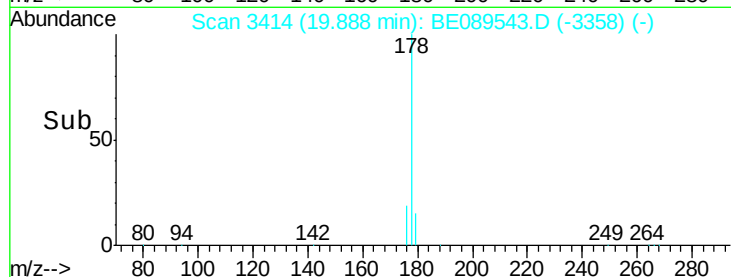
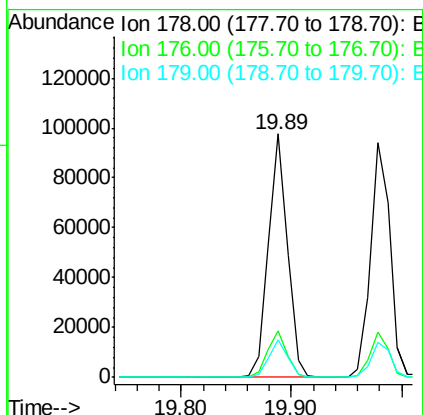
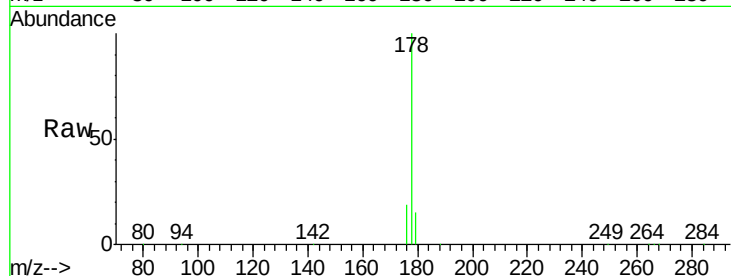




#13
Phenanthrene
Concen: 6.93 ng
RT: 19.89 min Scan# 3414
Delta R.T. 0.00 min
Lab File: BE089543.D
Acq: 7 Feb 2015 2:54

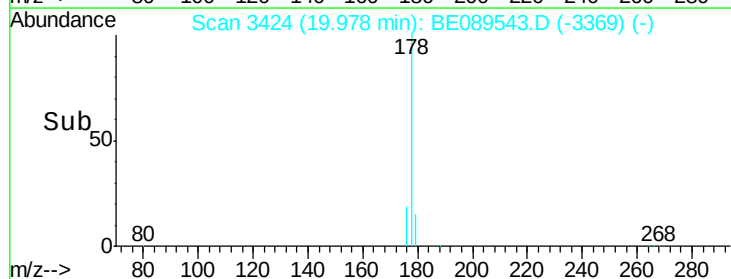
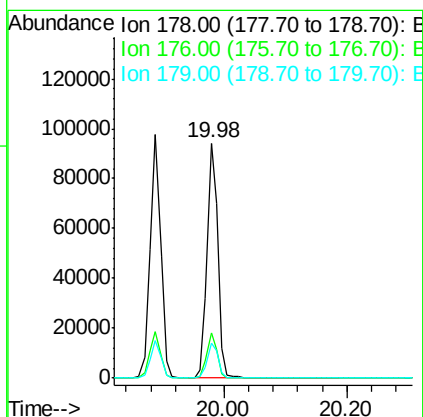
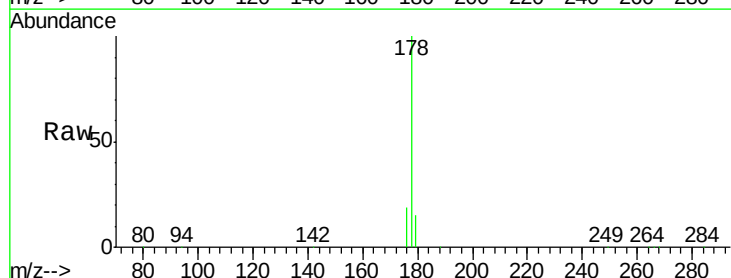
Instrument :
BNA_E
ClientSampleId :
PB81635BSD

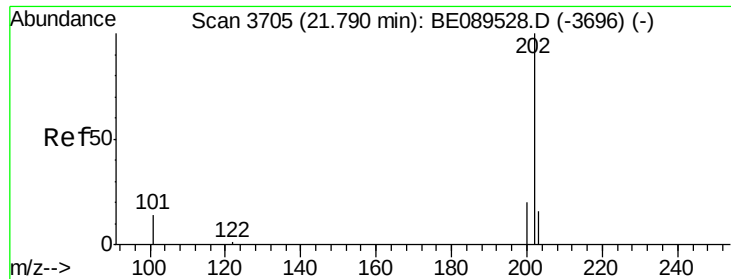
Tgt Ion:178 Resp: 116492
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 15.3 12.2 18.2



#14
Anthracene
Concen: 8.17 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089543.D
Acq: 7 Feb 2015 2:54

Tgt Ion:178 Resp: 116071
Ion Ratio Lower Upper
178 100
176 18.4 14.5 21.7
179 14.9 12.2 18.2

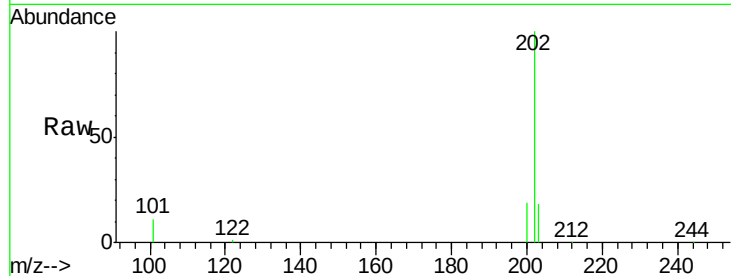




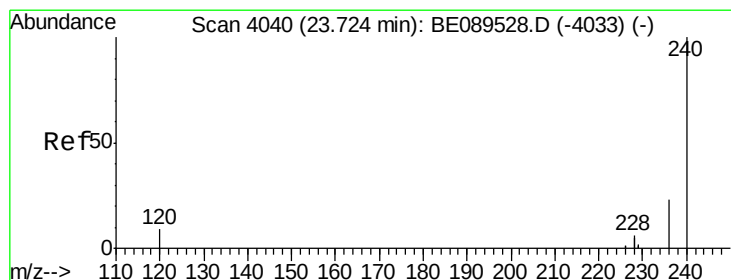
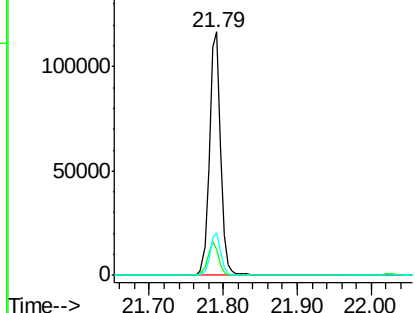
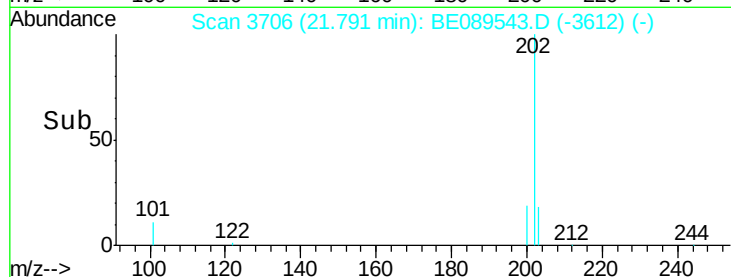
#15
 Fluoranthene
 Concen: 7.82 ng
 RT: 21.79 min Scan# 3706
 Delta R.T. 0.00 min
 Lab File: BE089543.D
 Acq: 7 Feb 2015 2:54

Instrument :
 BNA_E
 ClientSampleId :
 PB81635BSD

Tgt Ion: 202 Resp: 122526
 Ion Ratio Lower Upper
 202 100
 101 13.2 11.6 17.4
 203 17.1 13.6 20.4

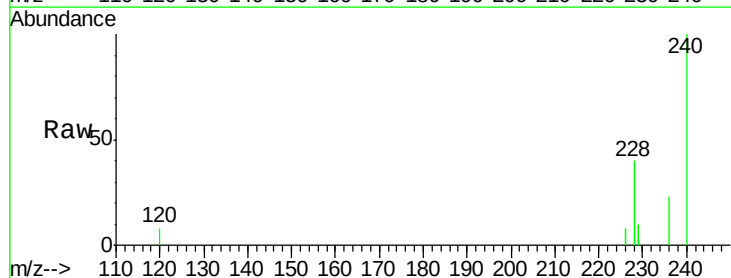


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

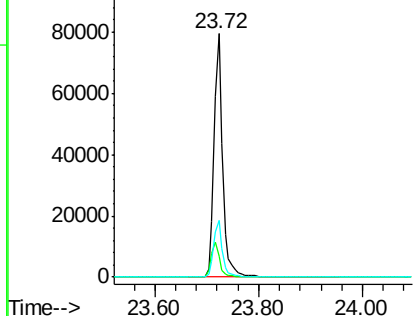
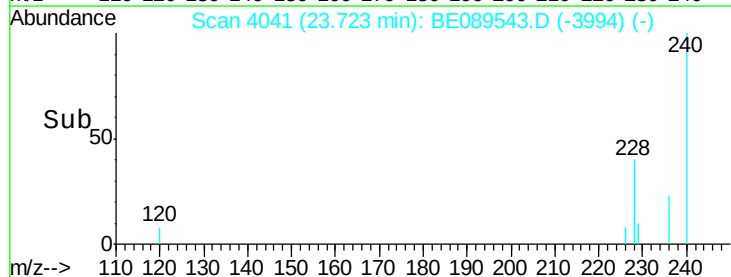


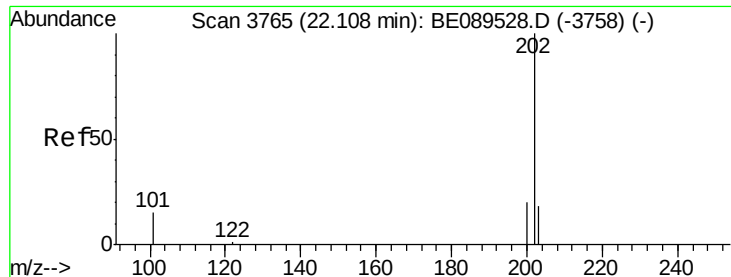
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4041
 Delta R.T. -0.00 min
 Lab File: BE089543.D
 Acq: 7 Feb 2015 2:54

Tgt Ion: 240 Resp: 90075
 Ion Ratio Lower Upper
 240 100
 120 8.4 7.2 10.8
 236 23.1 18.5 27.7



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: 7.11 ng

RT: 22.10 min Scan# 3765

Delta R.T. -0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

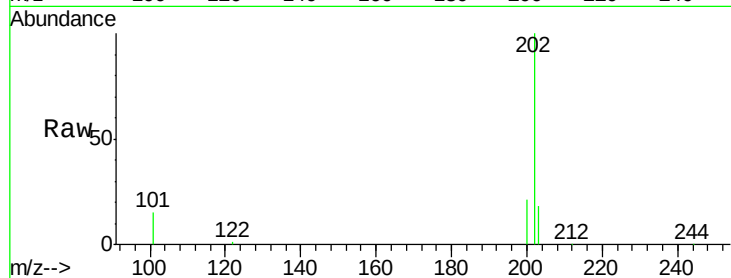
Tgt Ion:202 Resp: 136430

Ion Ratio Lower Upper

202 100

200 20.5 16.3 24.5

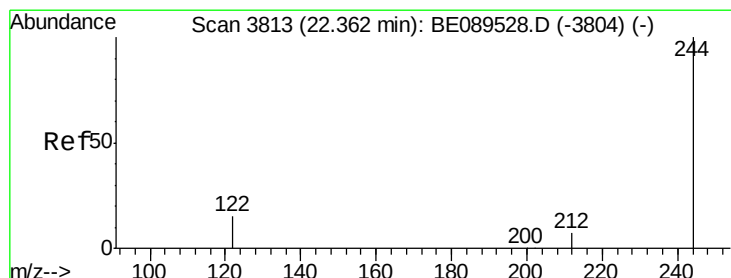
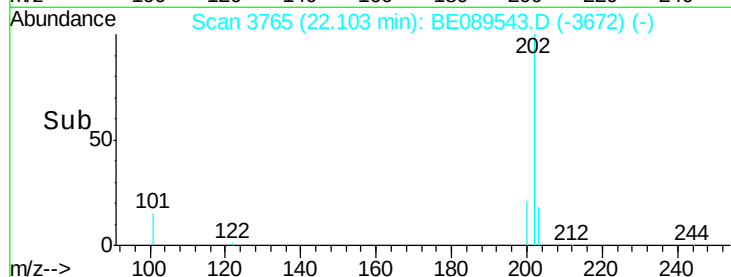
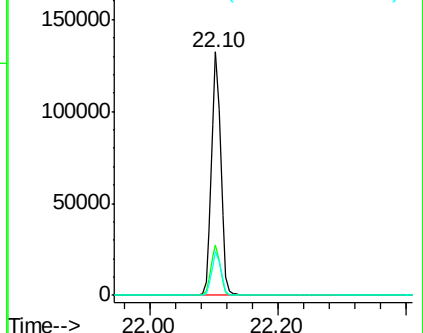
203 17.8 13.5 20.3



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: 7.56 ng

RT: 22.36 min Scan# 3814

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

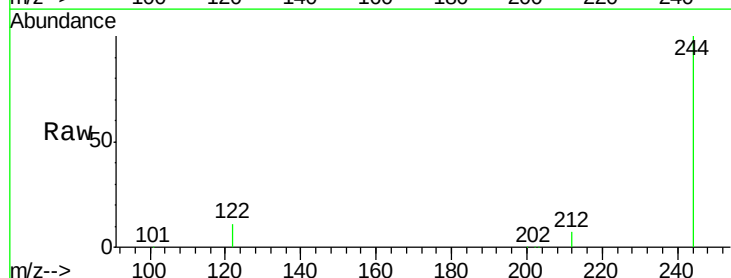
Tgt Ion:244 Resp: 89815

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.8

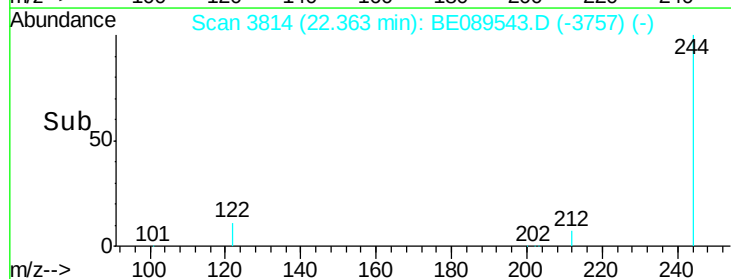
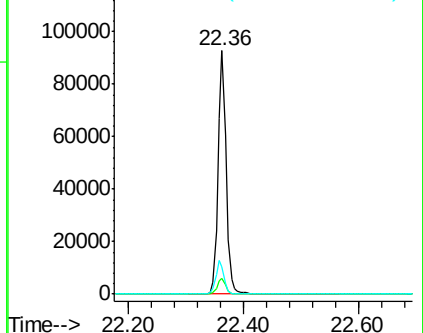
122 11.4 12.6 19.0#

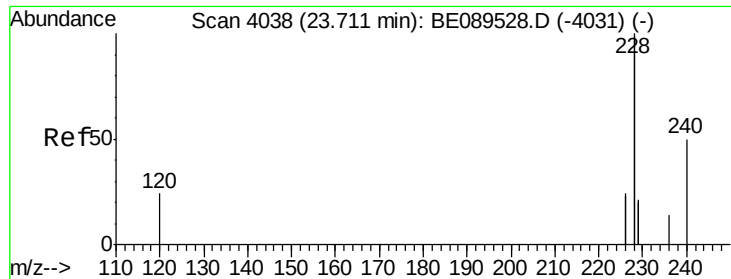


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 7.01 ng

RT: 23.70 min Scan# 4038

Delta R.T. -0.01 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

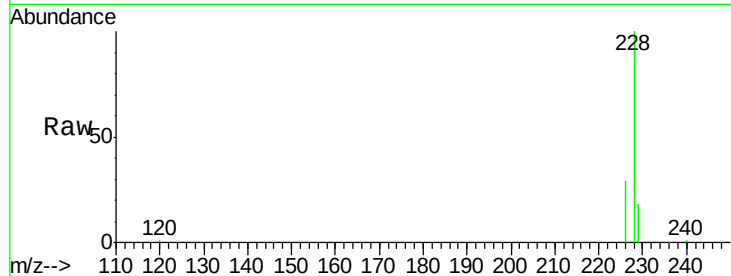
Tgt Ion:228 Resp: 561650

Ion Ratio Lower Upper

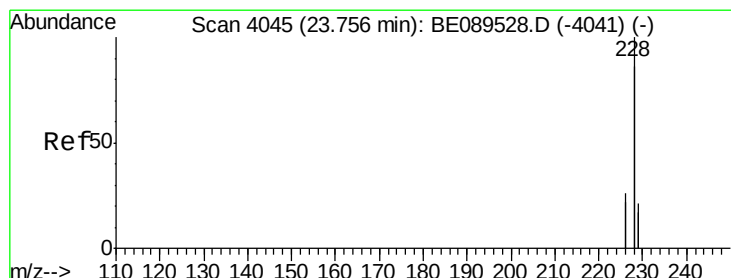
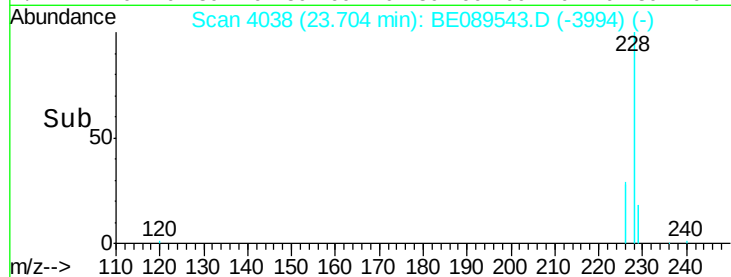
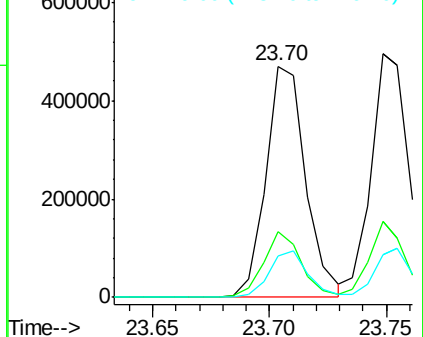
228 100

226 28.5 19.0 28.4#

229 17.7 16.8 25.2



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



#20

Chrysene

Concen: 7.40 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

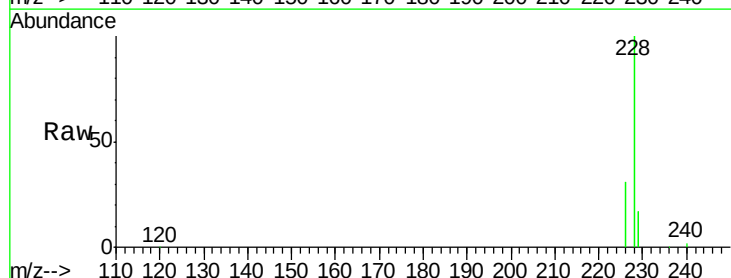
Tgt Ion:228 Resp: 602199

Ion Ratio Lower Upper

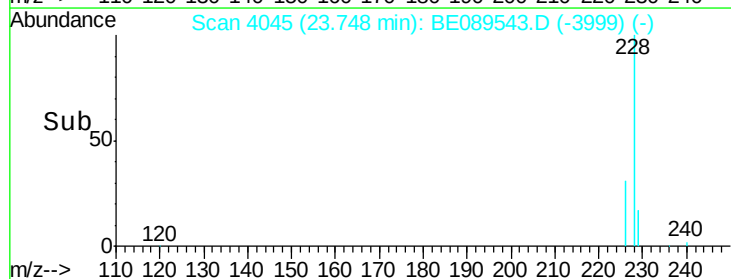
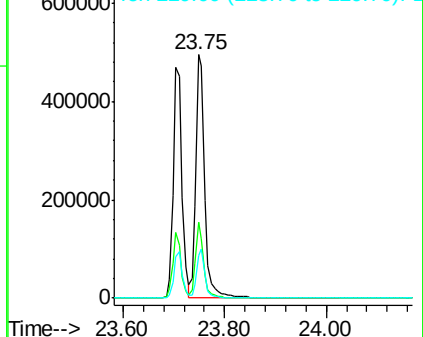
228 100

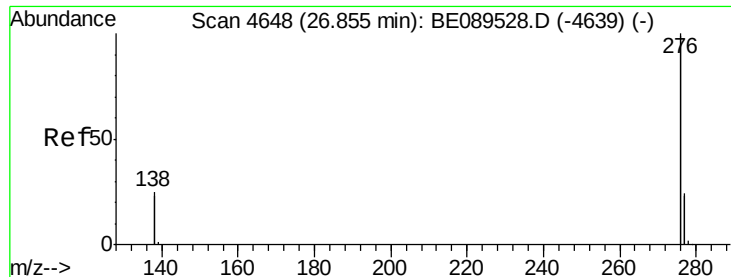
226 31.4 21.0 31.4

229 17.3 16.7 25.1



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: 7.63 ng

RT: 26.85 min Scan# 4649

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

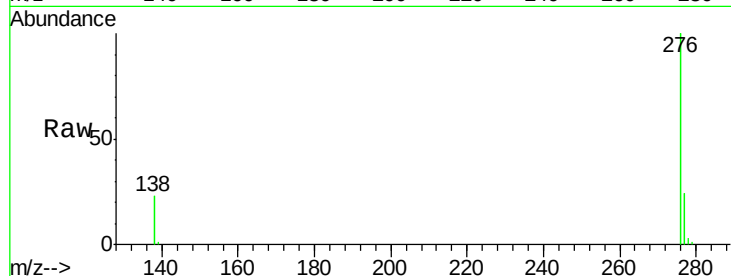
Tgt Ion:276 Resp: 863530

Ion Ratio Lower Upper

276 100

138 27.9 23.0 34.4

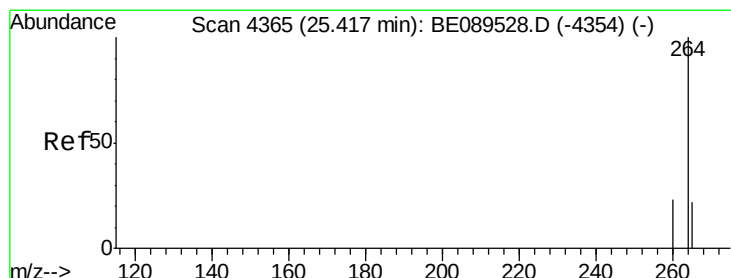
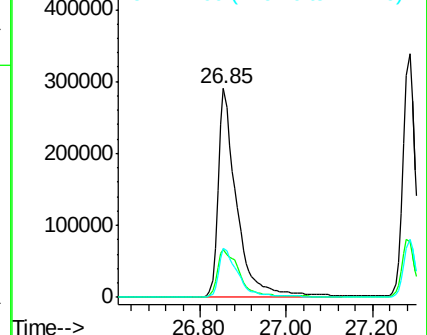
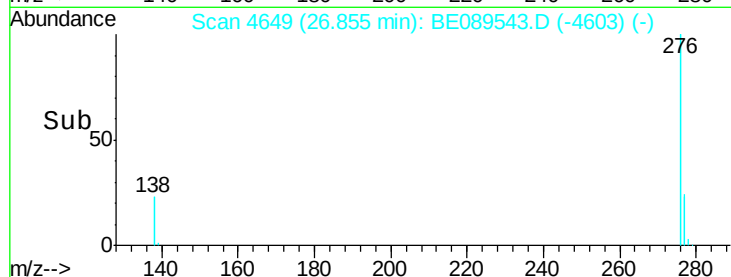
277 25.2 19.9 29.9



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: 25.41 min Scan# 4365

Delta R.T. -0.01 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

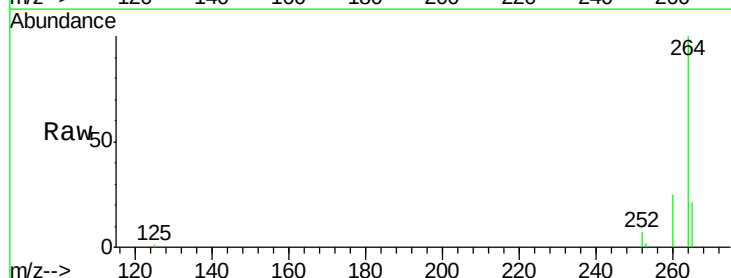
Tgt Ion:264 Resp: 102324

Ion Ratio Lower Upper

264 100

260 24.5 18.7 28.1

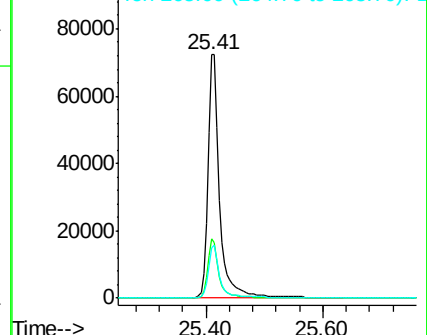
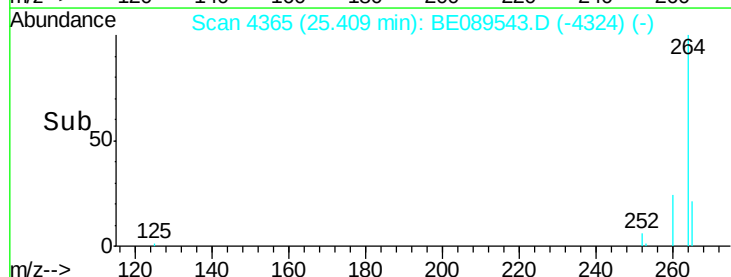
265 20.7 17.5 26.3

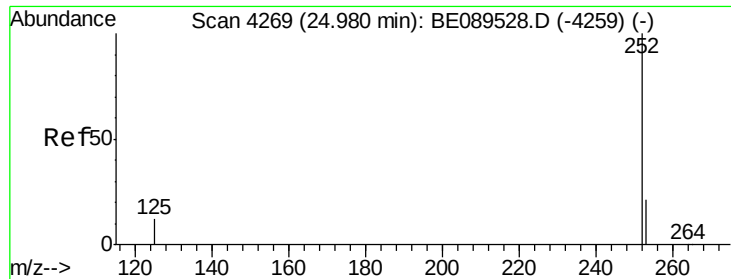


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 7.11 ng

RT: 24.98 min Scan# 4270

Delta R.T. -0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

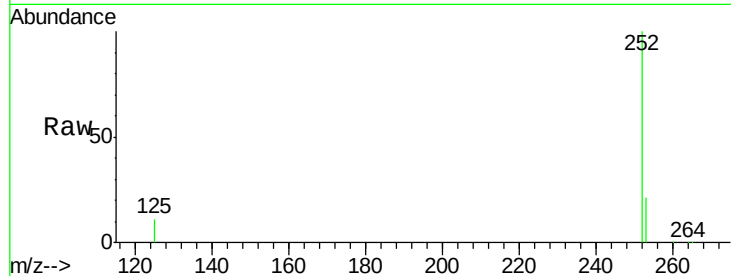
Tgt Ion:252 Resp: 141248

Ion Ratio Lower Upper

252 100

253 21.4 17.4 26.0

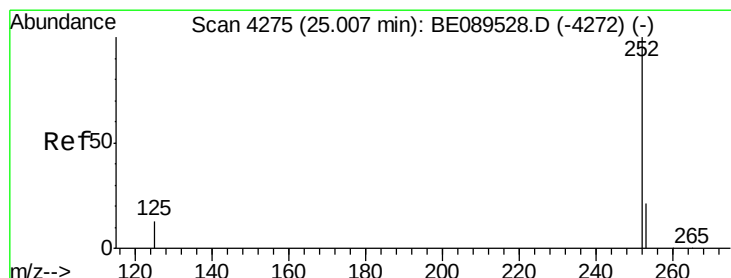
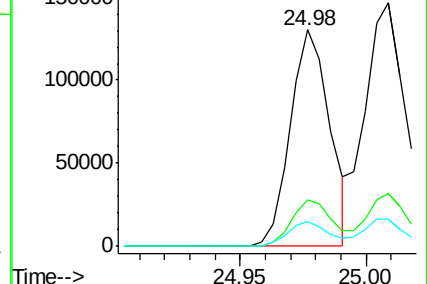
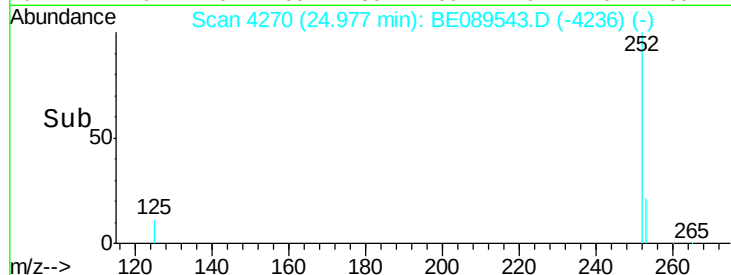
125 11.5 10.4 15.6



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



#24

Benzo(k)fluoranthene

Concen: 7.89 ng

RT: 25.01 min Scan# 4277

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

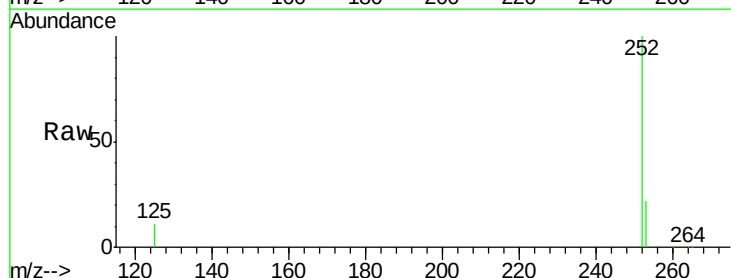
Tgt Ion:252 Resp: 194915

Ion Ratio Lower Upper

252 100

253 21.8 17.2 25.8

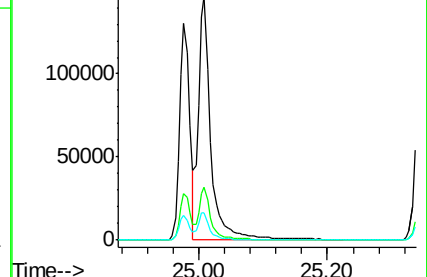
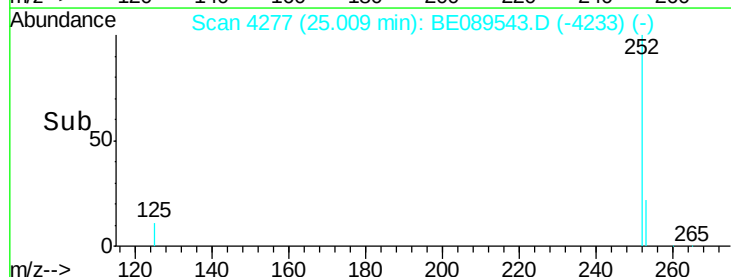
125 11.0 10.6 15.8

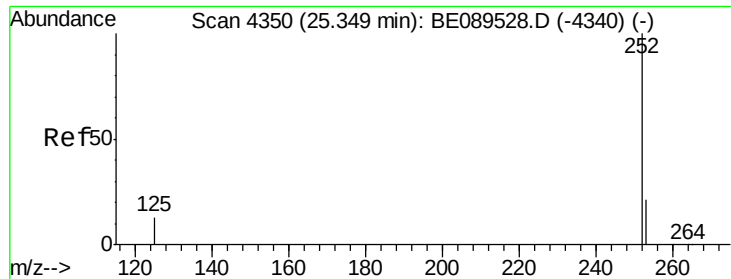


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 7.86 ng

RT: 25.35 min Scan# 4351

Delta R.T. -0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD

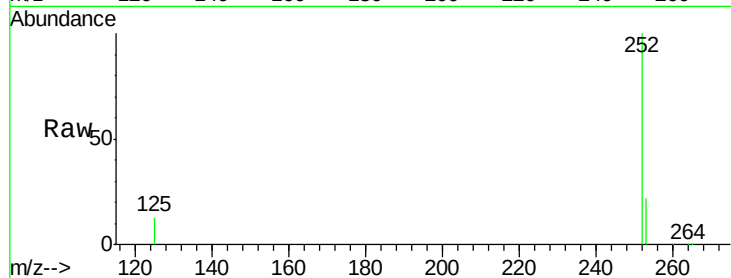
Tgt Ion:252 Resp: 155410

Ion Ratio Lower Upper

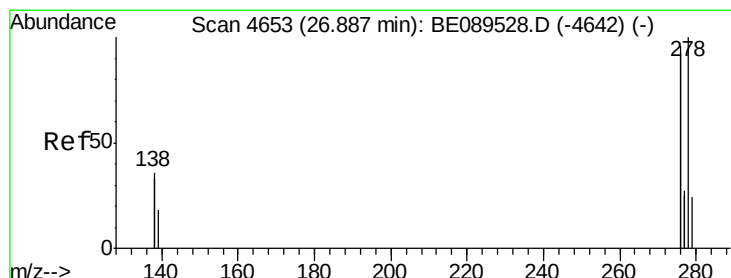
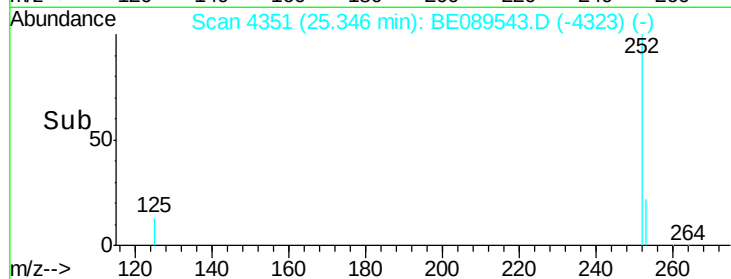
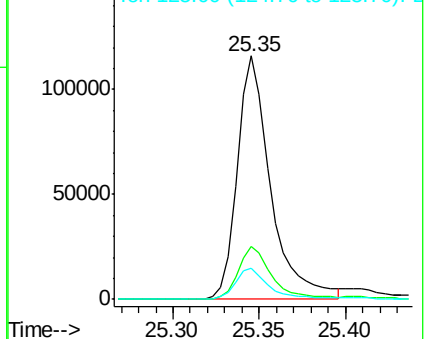
252 100

253 21.7 17.8 26.6

125 12.6 11.4 17.2



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: 7.88 ng

RT: 26.89 min Scan# 4654

Delta R.T. 0.00 min

Lab File: BE089543.D

Acq: 7 Feb 2015 2:54

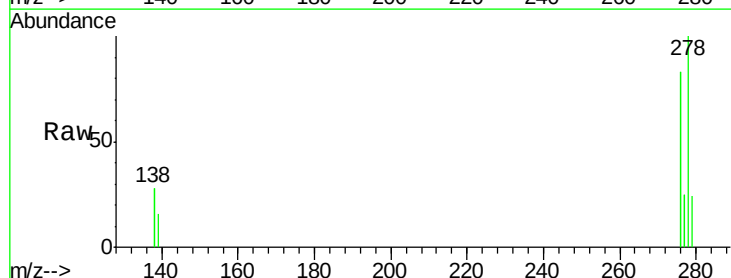
Tgt Ion:278 Resp: 191108

Ion Ratio Lower Upper

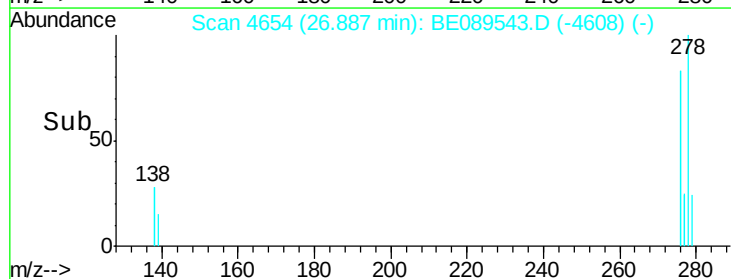
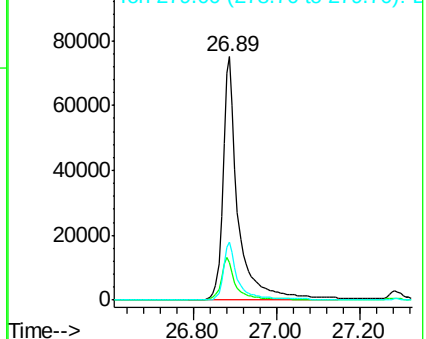
278 100

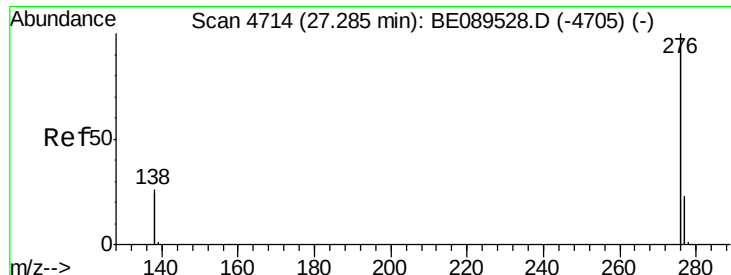
139 15.5 15.7 23.5#

279 24.0 19.5 29.3



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: 7.69 ng

RT: 27.29 min Scan# 4715

Delta R.T. 0.00 min

Lab File: BE089543.D

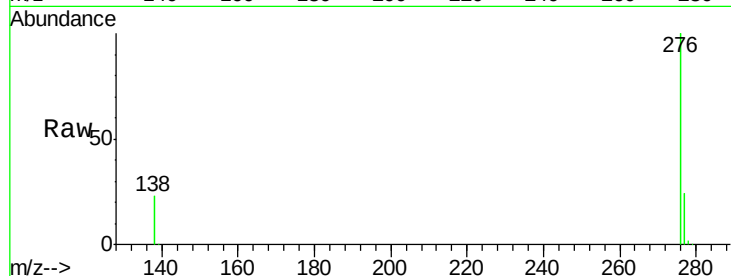
Acq: 7 Feb 2015 2:54

Instrument :

BNA_E

ClientSampleId :

PB81635BSD



Tgt Ion: 276 Resp: 760970

Ion Ratio Lower Upper

276 100

277 23.9 18.6 27.8

138 22.9 20.9 31.3

