

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102014\
 Data File : BE088135.D
 Acq On : 21 Oct 2014 10:47
 Operator : TP/JJ
 Sample : PB79718BS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB79718BS

Quant Time: Oct 21 15:08:41 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	37593	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	139110	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	61384	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	112687	5.00	ng	0.00
16) Chrysene-d12	18.39	240	79814	5.00	ng	0.00
22) Perylene-d12	21.44	264	77287	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	64498	6.43	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	108624	6.41	ng	0.00
18) Terphenyl-d14	16.15	244	86798	6.76	ng	0.00

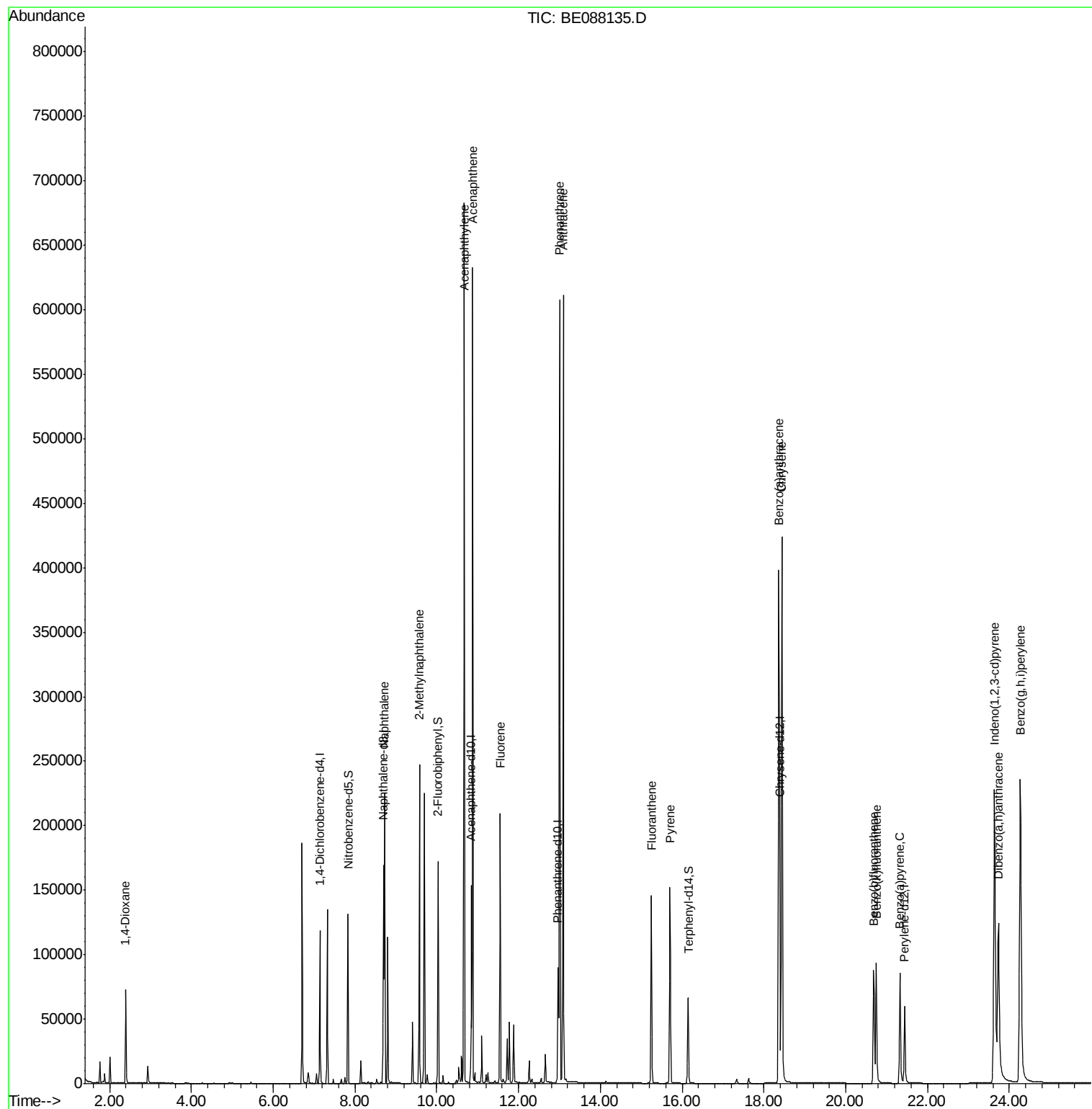
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.39	88	37273	6.89	ng	99
5) Naphthalene	8.72	128	183605	6.40	ng	100
6) 2-Methylnaphthalene	9.57	142	115486	6.73	ng	97
9) Acenaphthylene	10.67	152	622065	6.65	ng	100
10) Acenaphthene	10.88	154	89888	6.23	ng	99
11) Fluorene	11.55	166	101605	6.64	ng	99
13) Phenanthrene	13.01	178	578800	7.06	ng	94
14) Anthracene	13.09	178	586949	6.67	ng	99
15) Fluoranthene	15.25	202	138541	6.46	ng	99
17) Pyrene	15.70	202	148073	6.82	ng	99
19) Benzo(a)anthracene	18.36	228	488140	6.88	ng	100
20) Chrysene	18.44	228	484929	6.96	ng	99
21) Indeno(1,2,3-cd)pyrene	23.64	276	417749	5.40	ng	# 88
23) Benzo(b)fluoranthene	20.69	252	121629	6.61	ng	99
24) Benzo(k)fluoranthene	20.75	252	136675	6.94	ng	99
25) Benzo(a)pyrene	21.33	252	120452	7.11	ng	99
26) Dibenzo(a,h)anthracene	23.74	278	110775	6.66	ng	97
27) Benzo(g,h,i)perylene	24.28	276	479154	6.52	ng	97

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS

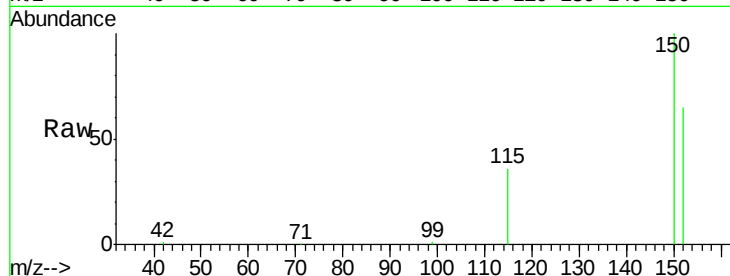
Tgt Ion:152 Resp: 37593

Ion Ratio Lower Upper

152 100

150 153.9 129.2 193.8

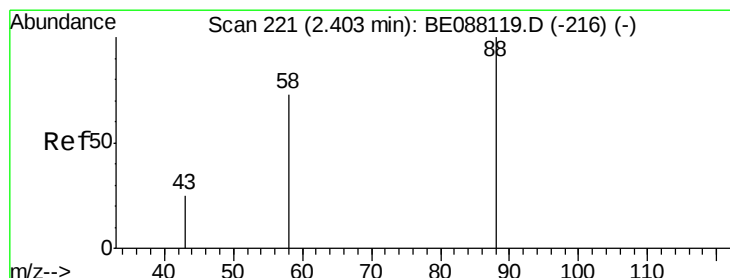
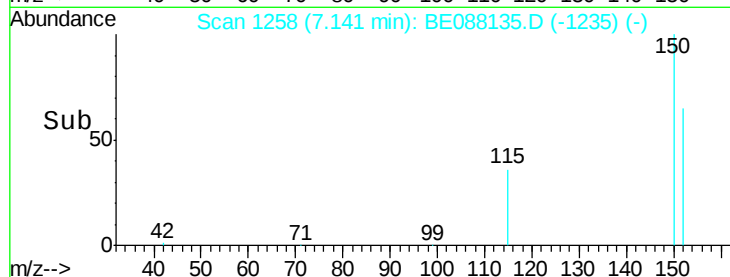
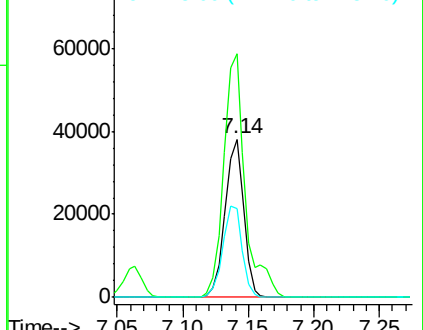
115 56.2 49.3 73.9



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: 6.89 ng

RT: 2.39 min Scan# 219

Delta R.T. -0.01 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

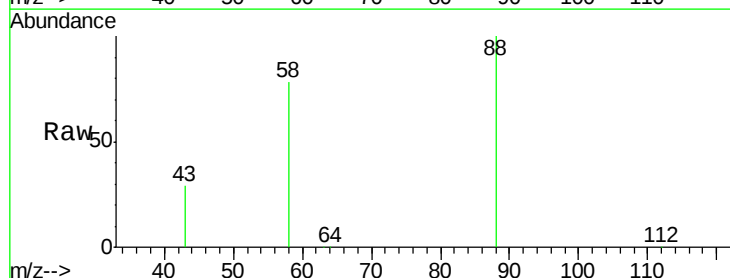
Tgt Ion: 88 Resp: 37273

Ion Ratio Lower Upper

88 100

58 74.6 59.5 89.3

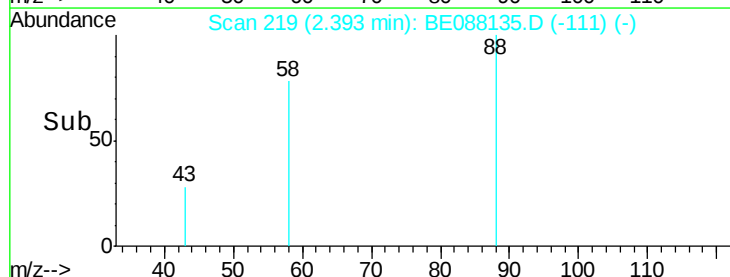
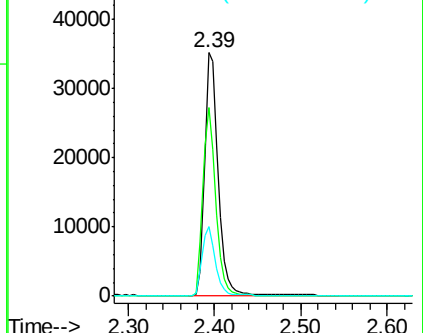
43 27.4 21.2 31.8

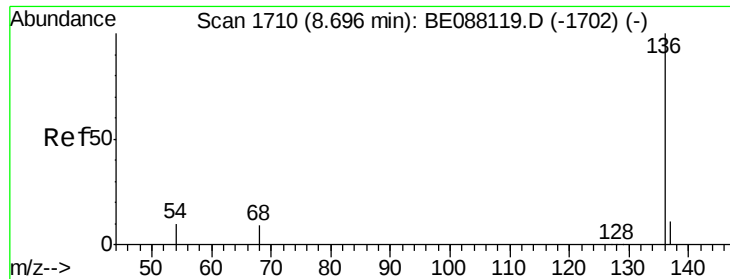


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

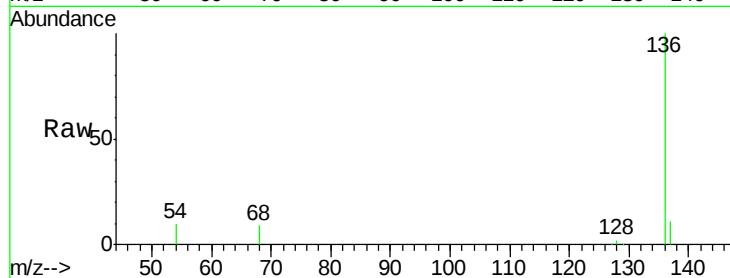




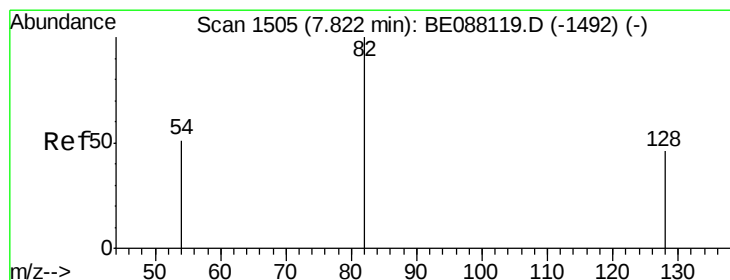
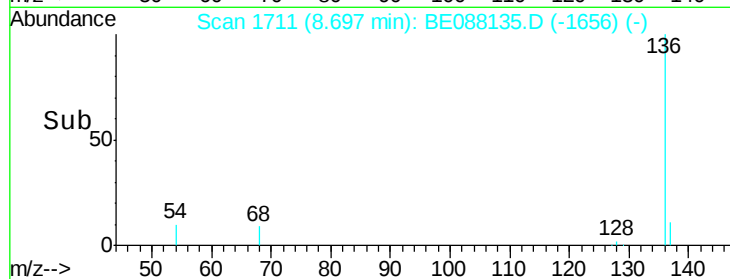
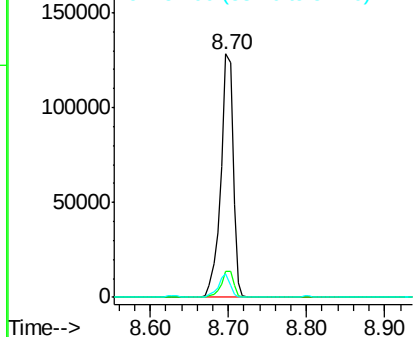
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1711
Delta R.T. 0.00 min
Lab File: BE088135.D
Acq: 21 Oct 2014 10:47

Instrument :
BNA_E
ClientSampleId :
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Tgt Ion: 136 Resp: 139110
Ion Ratio Lower Upper
136 100
137 10.7 8.6 12.8
54 9.8 7.7 11.5

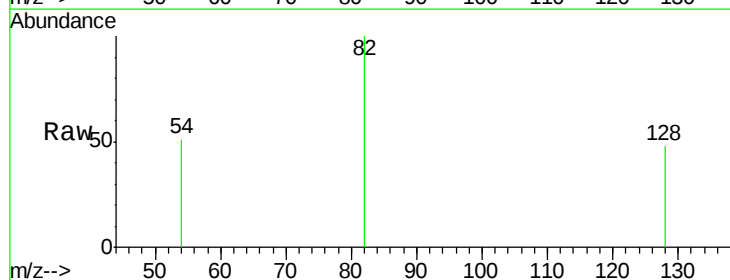


Abundance Ion 136.00 (135.70 to 136.70): BE088119.D (-1702) (-)
Ion 137.00 (136.70 to 137.70): BE088119.D (-1702) (-)
Ion 54.00 (53.70 to 54.70): BE088119.D (-1702) (-)

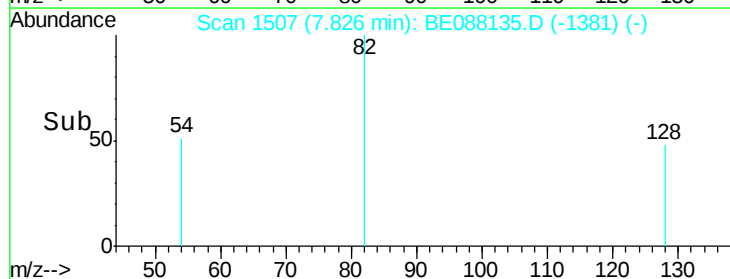
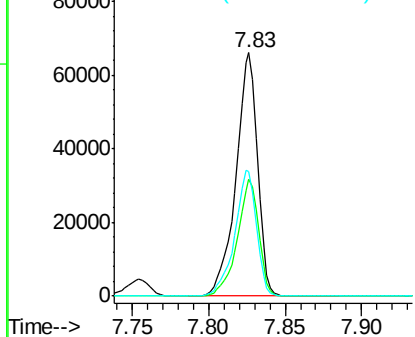


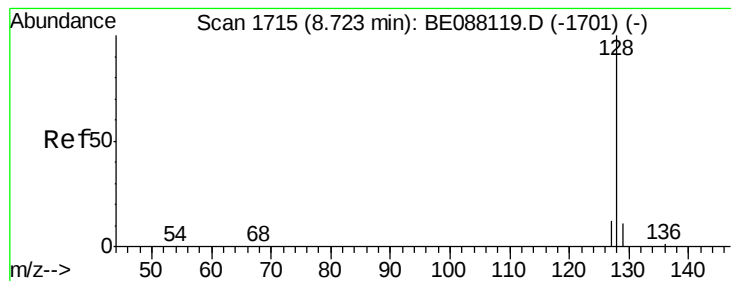
#4
Nitrobenzene-d5
Concen: 6.43 ng
RT: 7.83 min Scan# 1507
Delta R.T. 0.00 min
Lab File: BE088135.D
Acq: 21 Oct 2014 10:47

Tgt Ion: 82 Resp: 64498
Ion Ratio Lower Upper
82 100
128 48.0 37.1 55.7
54 51.2 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE088119.D (-1492) (-)
Ion 128.00 (127.70 to 128.70): BE088119.D (-1492) (-)
Ion 54.00 (53.70 to 54.70): BE088119.D (-1492) (-)





#5

Naphthalene

Concen: 6.40 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS

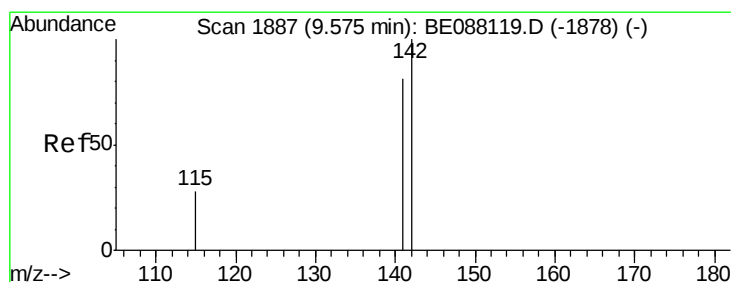
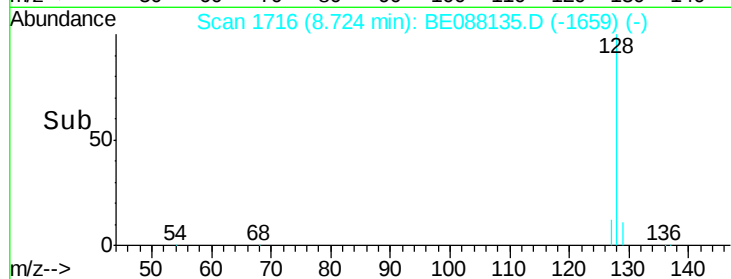
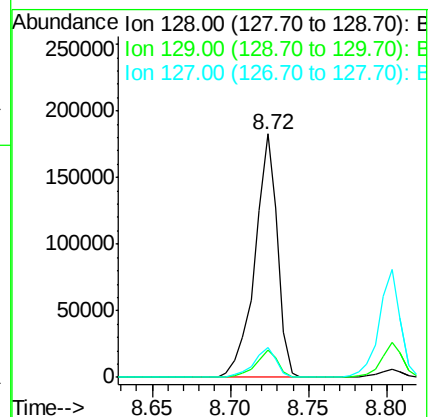
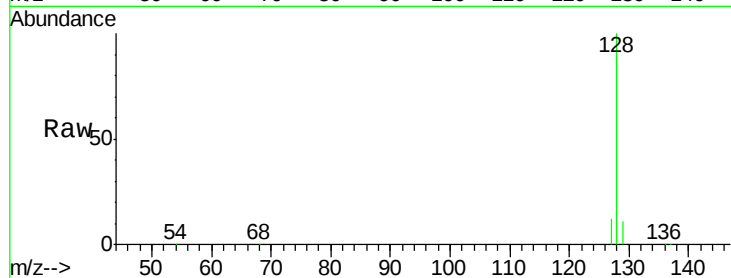
Tgt Ion:128 Resp: 183605

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

127 12.2 9.7 14.5



#6

2-Methylnaphthalene

Concen: 6.73 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

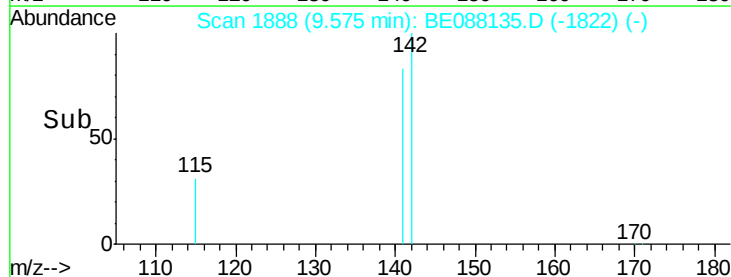
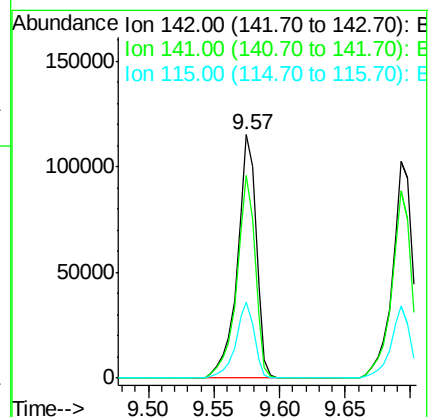
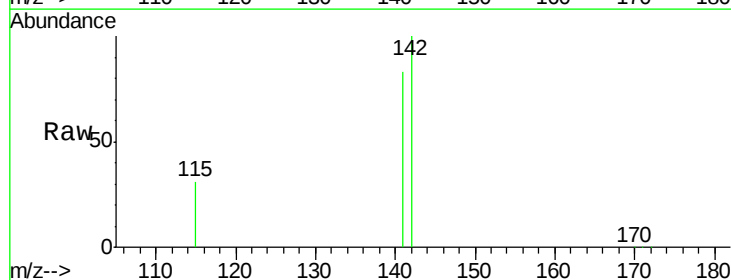
Tgt Ion:142 Resp: 115486

Ion Ratio Lower Upper

142 100

141 83.1 64.6 97.0

115 31.4 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. -0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS

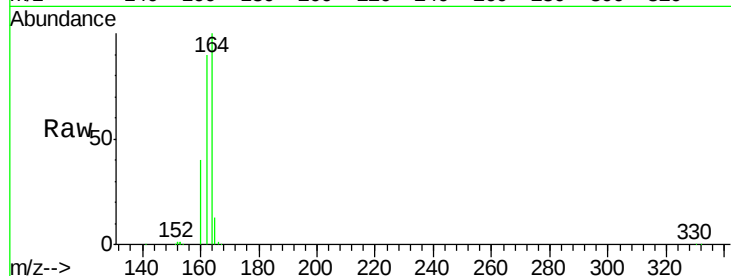
Tgt Ion:164 Resp: 61384

Ion Ratio Lower Upper

164 100

162 90.3 68.3 102.5

160 40.1 28.7 43.1

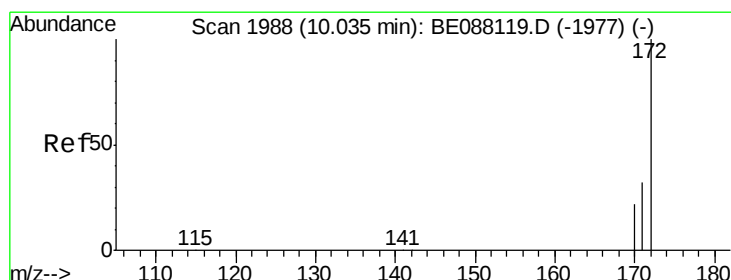
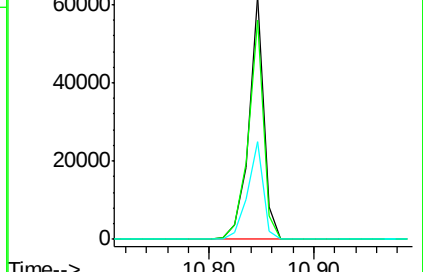
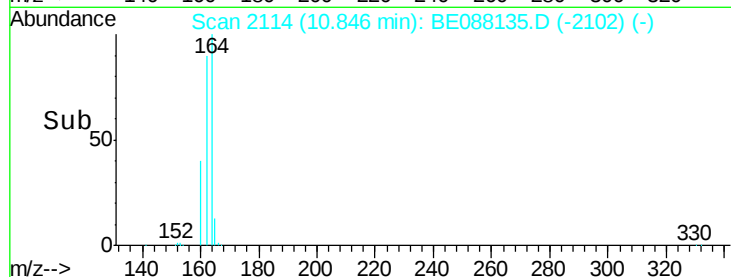


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

10.85



#8

2-Fluorobiphenyl

Concen: 6.41 ng

RT: 10.03 min Scan# 1989

Delta R.T. -0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

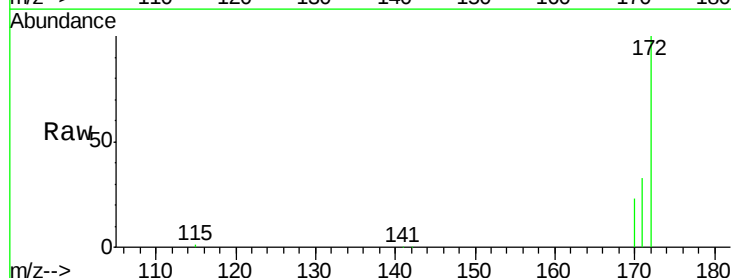
Tgt Ion:172 Resp: 108624

Ion Ratio Lower Upper

172 100

171 33.0 25.4 38.2

170 23.0 17.4 26.2

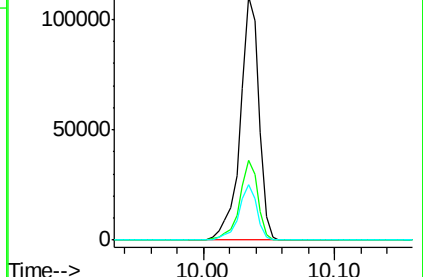
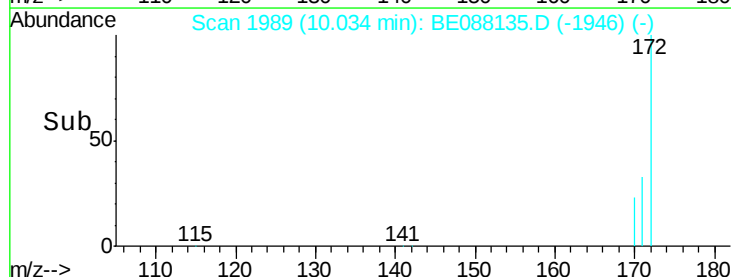


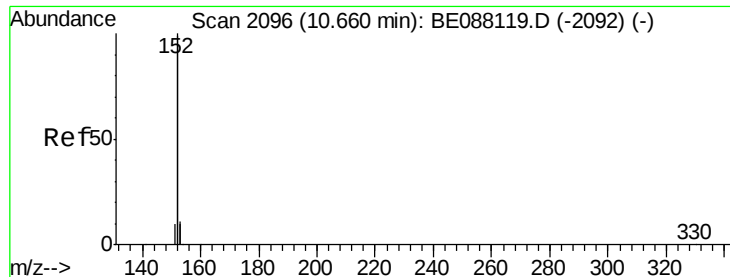
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

10.03





#9

Acenaphthylene

Concen: 6.65 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

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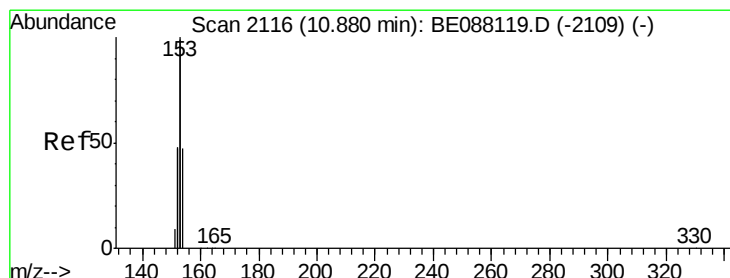
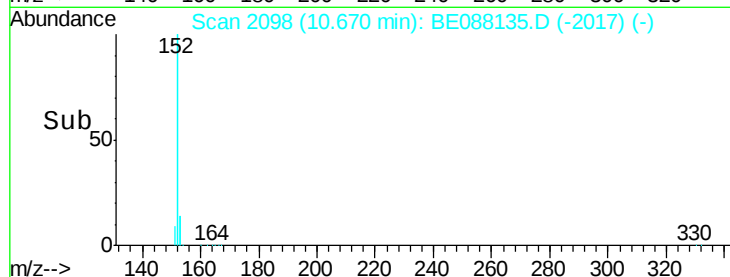
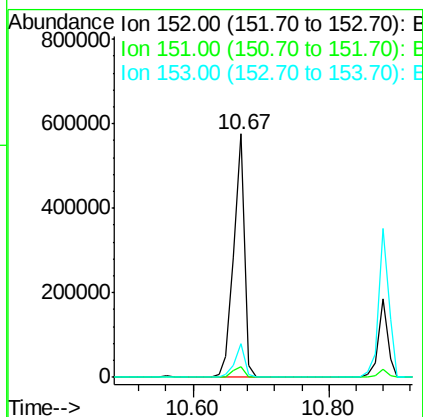
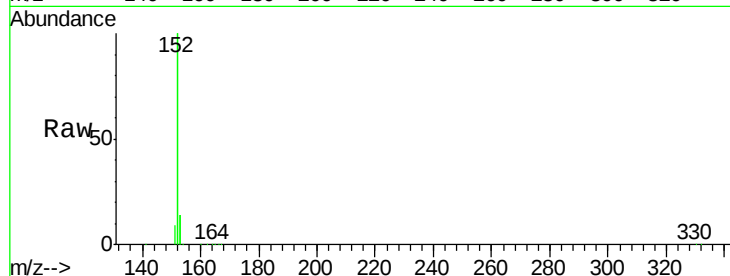
Tgt Ion:152 Resp: 622065

Ion Ratio Lower Upper

152 100

151 4.7 3.7 5.5

153 13.0 10.4 15.6



#10

Acenaphthene

Concen: 6.23 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

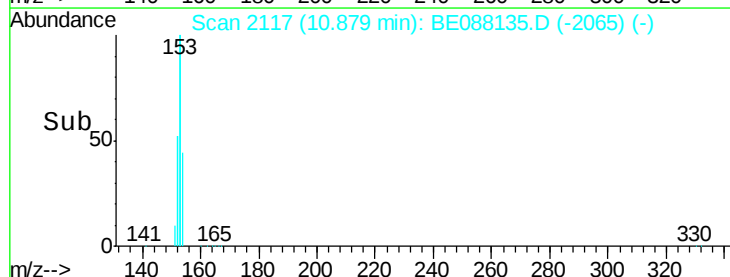
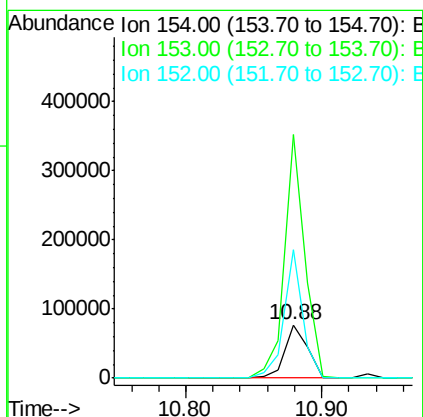
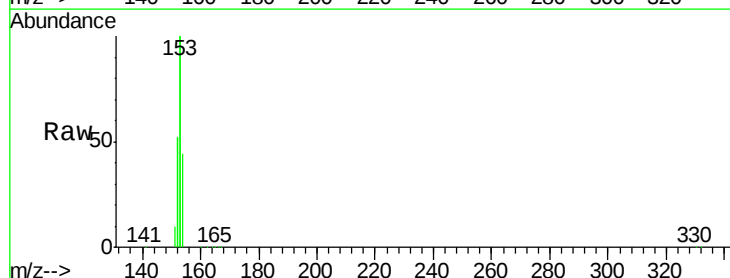
Tgt Ion:154 Resp: 89888

Ion Ratio Lower Upper

154 100

153 410.9 327.8 491.6

152 199.1 157.6 236.4





#11

Fluorene

Concen: 6.64 ng

RT: 11.55 min Scan# 2178

Delta R.T. -0.00 min

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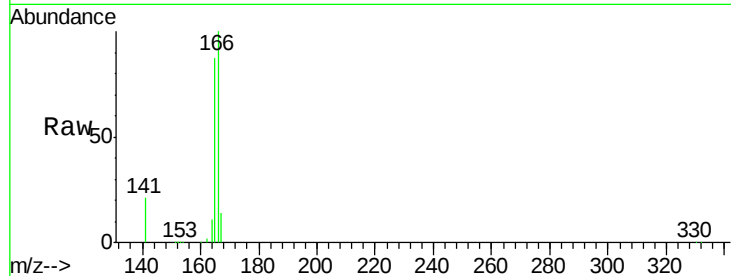
Tgt Ion:166 Resp: 101605

Ion Ratio Lower Upper

166 100

165 90.4 71.4 107.2

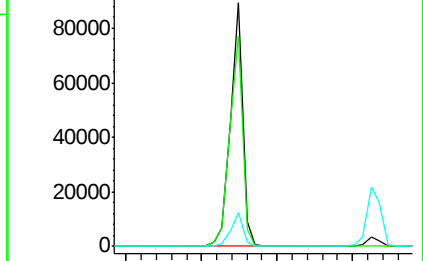
167 13.4 10.6 16.0



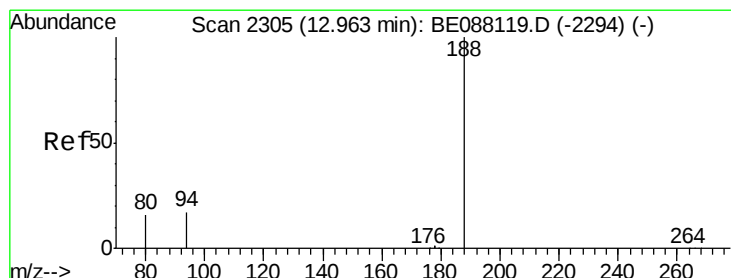
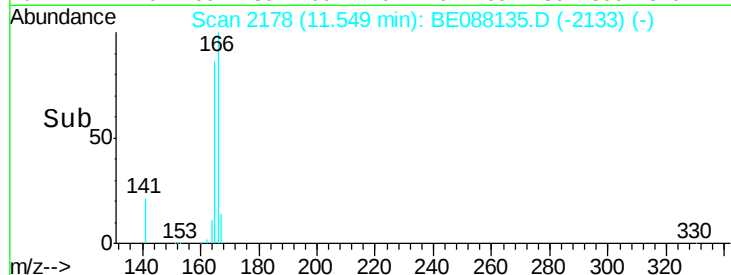
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time--> 11.40 11.50 11.60 11.70



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.01 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

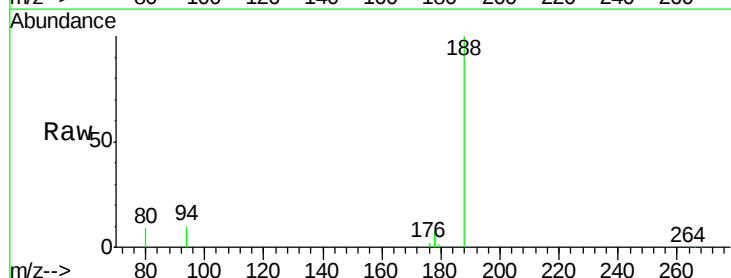
Tgt Ion:188 Resp: 112687

Ion Ratio Lower Upper

188 100

94 10.1 13.9 20.9#

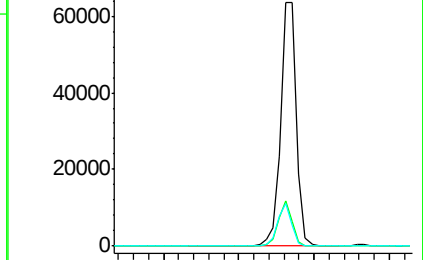
80 8.6 12.9 19.3#



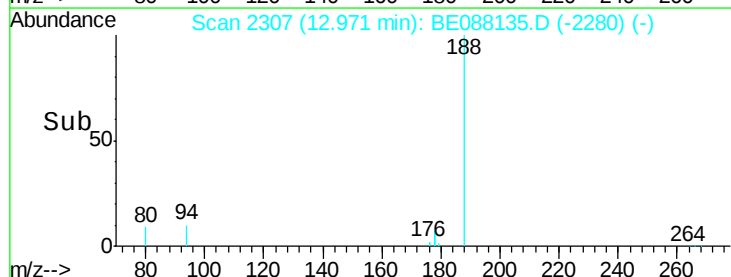
Abundance Ion 188.00 (187.70 to 188.70): E

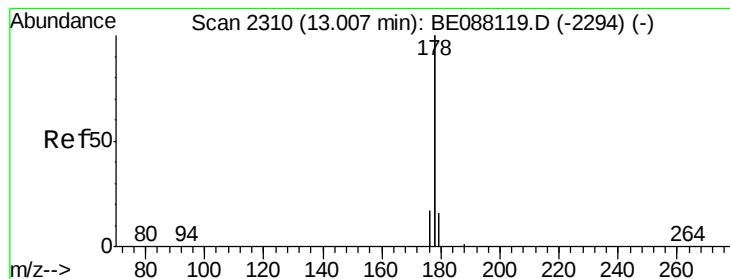
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time--> 12.80 12.90 13.00





#13

Phenanthrene

Concen: 7.06 ng

RT: 13.01 min Scan# 2311

Delta R.T. -0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

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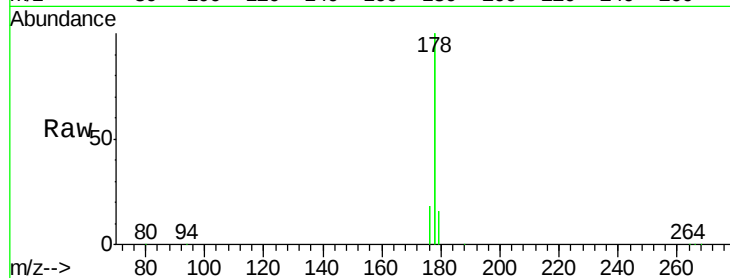
Tgt Ion:178 Resp: 578800

Ion Ratio Lower Upper

178 100

176 18.5 12.5 18.7

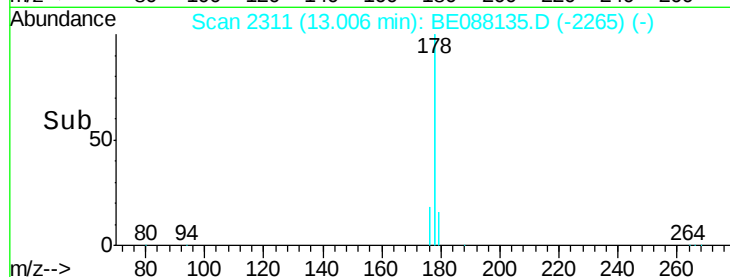
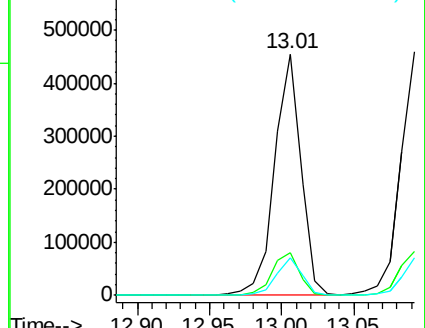
179 18.7 13.5 20.3



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



#14

Anthracene

Concen: 6.67 ng

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

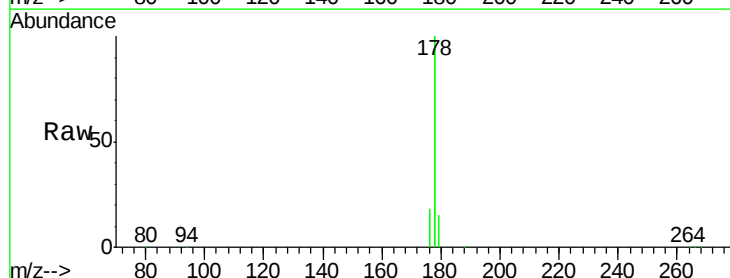
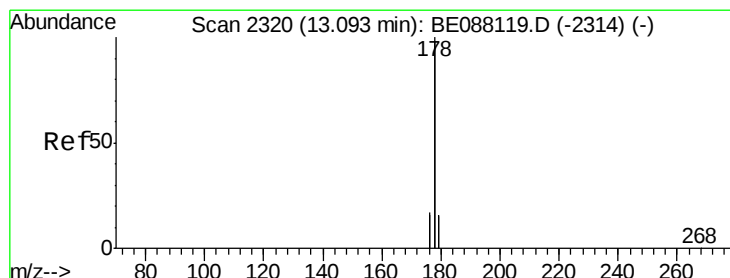
Tgt Ion:178 Resp: 586949

Ion Ratio Lower Upper

178 100

176 18.0 14.6 21.8

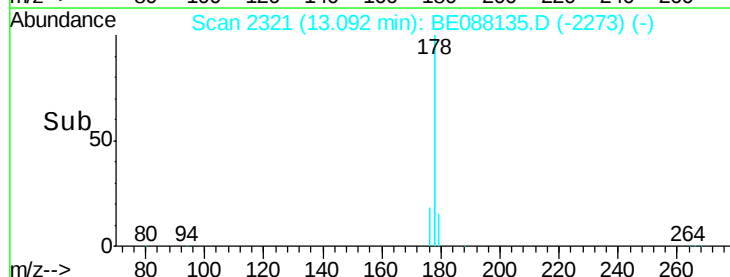
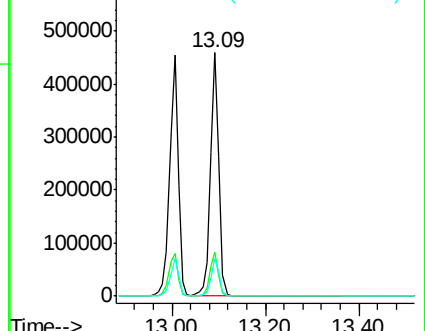
179 15.2 12.5 18.7

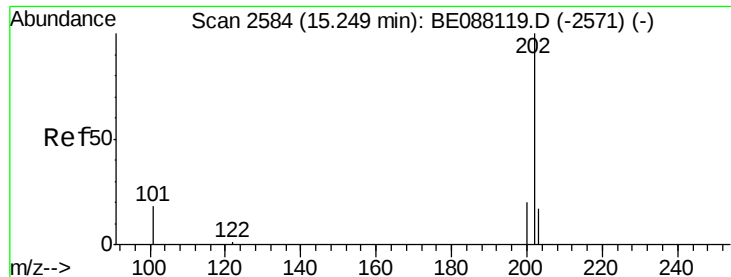


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 6.46 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS

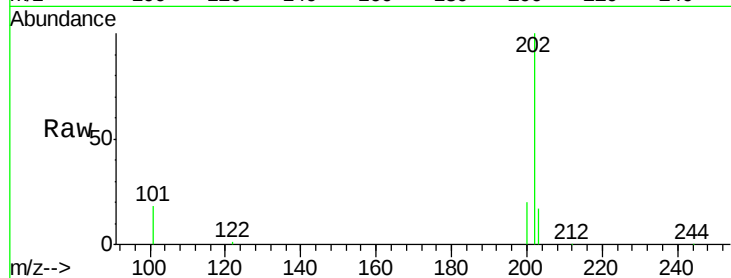
Tgt Ion:202 Resp: 138541

Ion Ratio Lower Upper

202 100

101 18.4 14.8 22.2

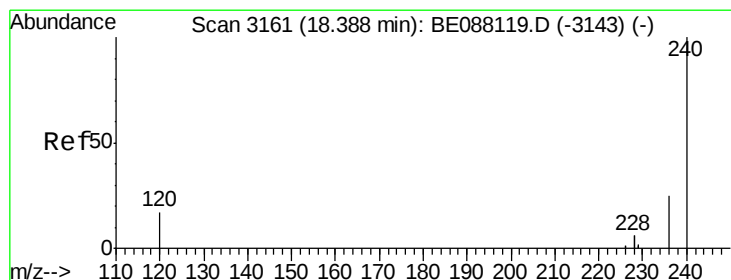
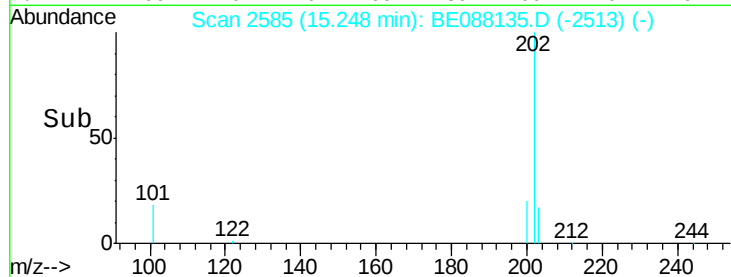
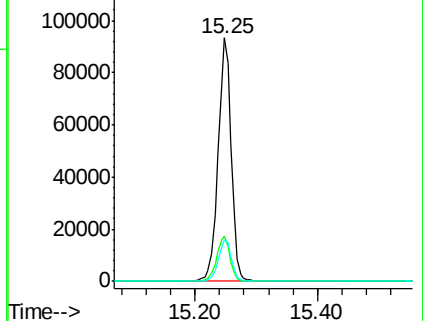
203 17.3 13.5 20.3



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: 18.39 min Scan# 3162

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

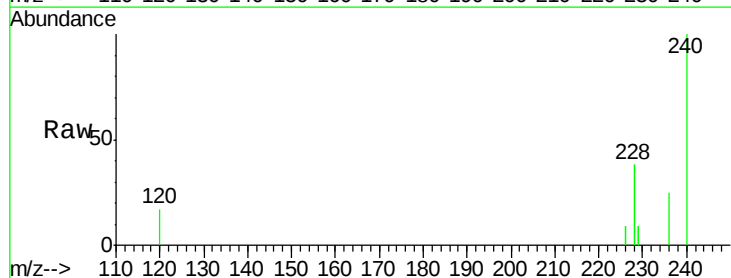
Tgt Ion:240 Resp: 79814

Ion Ratio Lower Upper

240 100

120 16.5 13.9 20.9

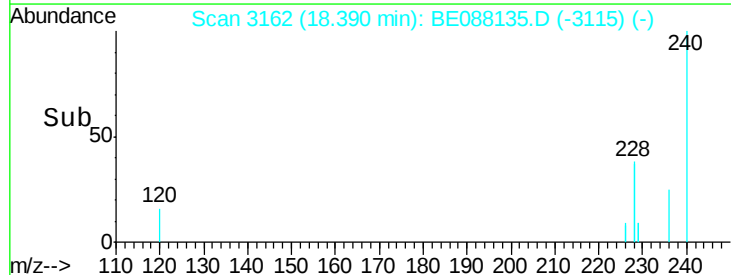
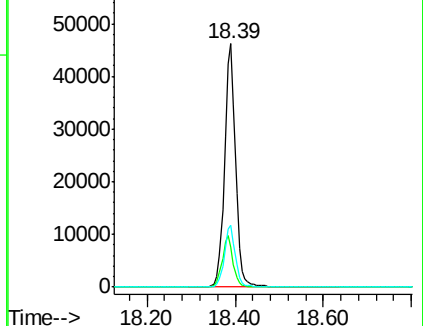
236 25.4 19.9 29.9

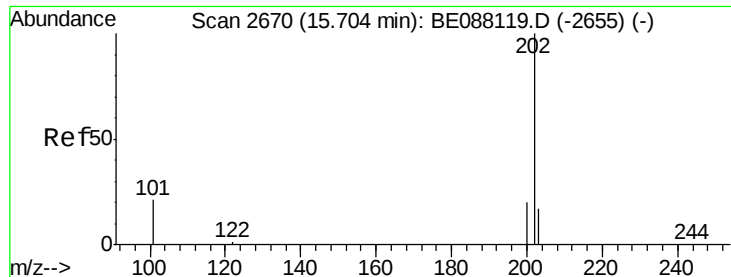


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

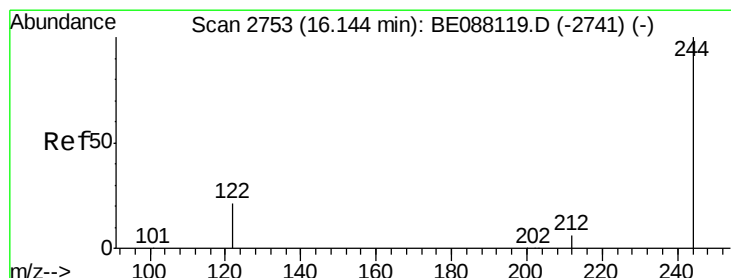
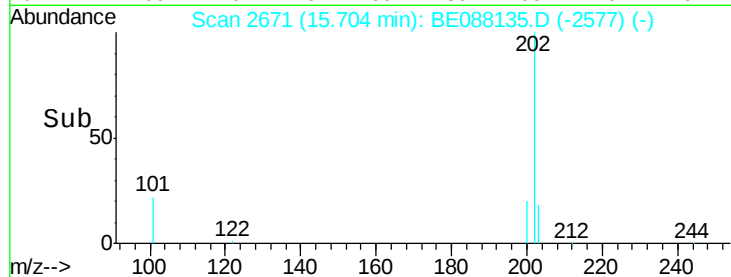
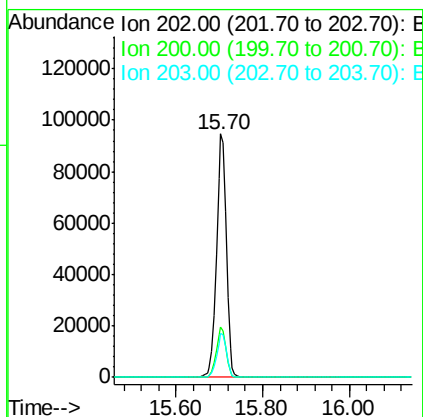
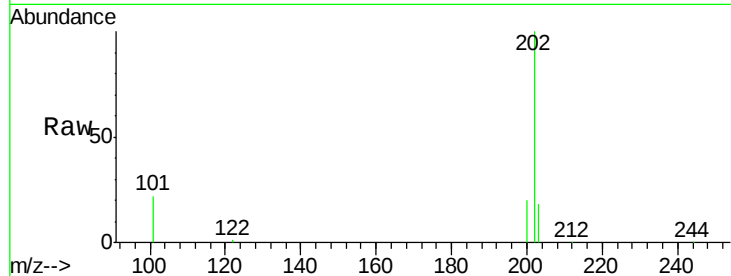




#17
 Pyrene
 Concen: 6.82 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: BE088135.D
 Acq: 21 Oct 2014 10:47

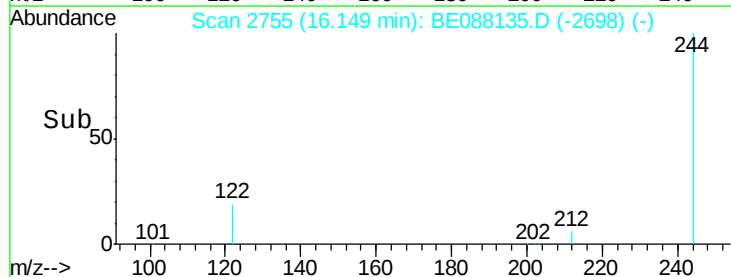
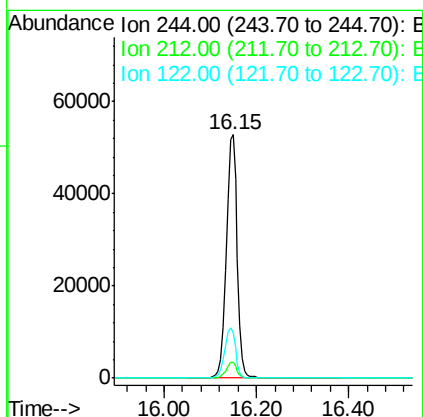
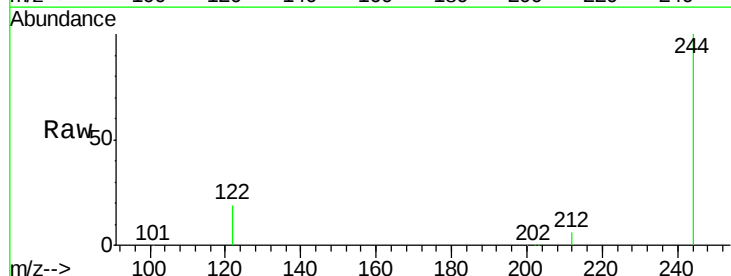
Instrument :
 BNA_E
 ClientSampleId :
 PB79718BS

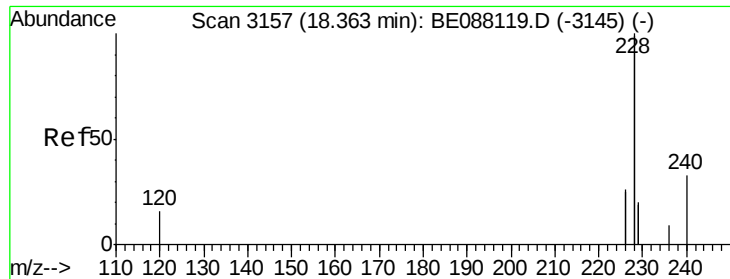
Tgt Ion: 202 Resp: 148073
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.1 24.1
 203 17.9 13.9 20.9



#18
 Terphenyl-d14
 Concen: 6.76 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088135.D
 Acq: 21 Oct 2014 10:47

Tgt Ion: 244 Resp: 86798
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.0
 122 18.7 17.5 26.3





#19

Benzo(a)anthracene

Concen: 6.88 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS

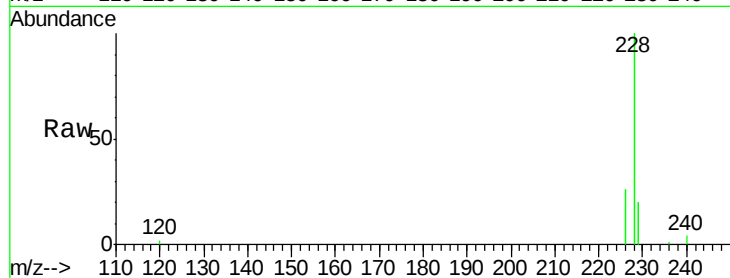
Tgt Ion:228 Resp: 488140

Ion Ratio Lower Upper

228 100

226 26.1 20.8 31.2

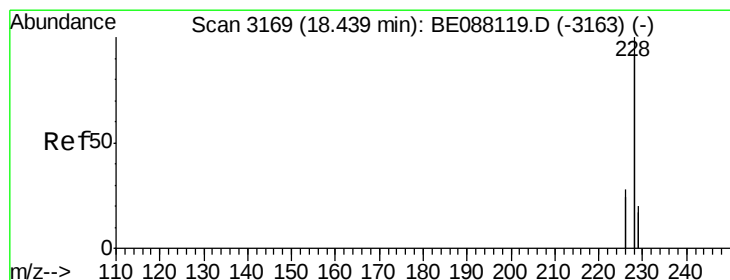
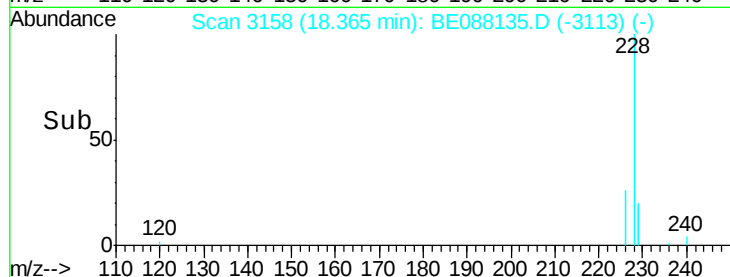
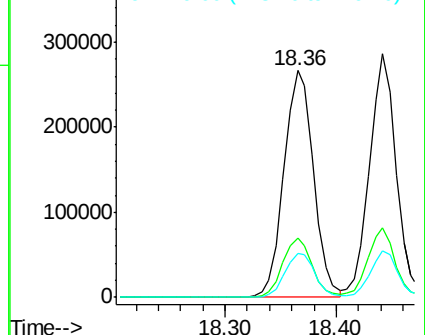
229 19.5 15.6 23.4



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: 6.96 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

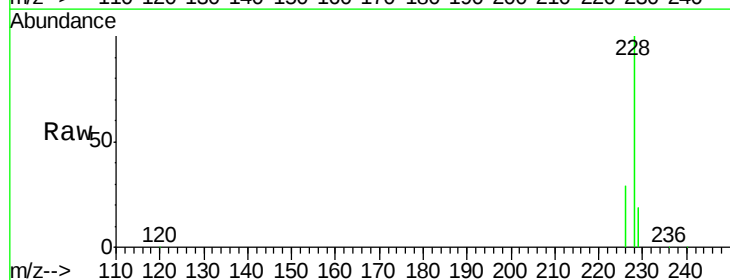
Tgt Ion:228 Resp: 484929

Ion Ratio Lower Upper

228 100

226 28.6 22.7 34.1

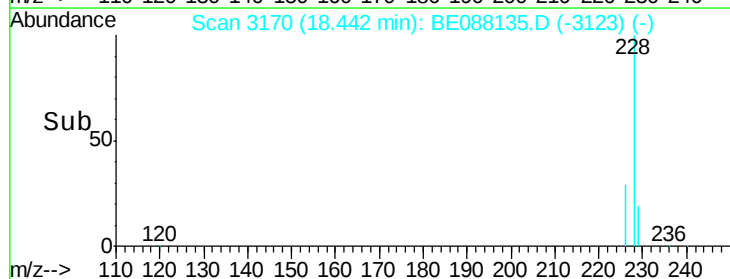
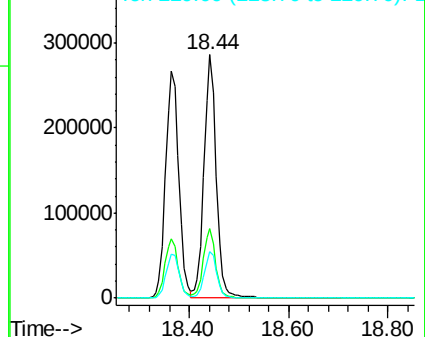
229 19.2 15.8 23.6

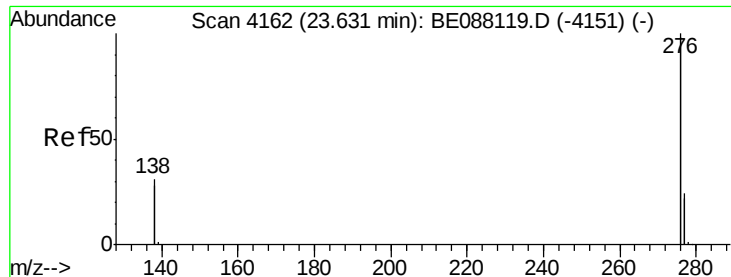


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 5.40 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS

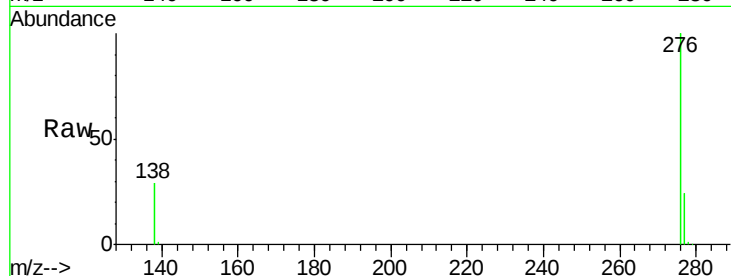
Tgt Ion: 276 Resp: 417749

Ion Ratio Lower Upper

276 100

138 29.1 18.5 27.7#

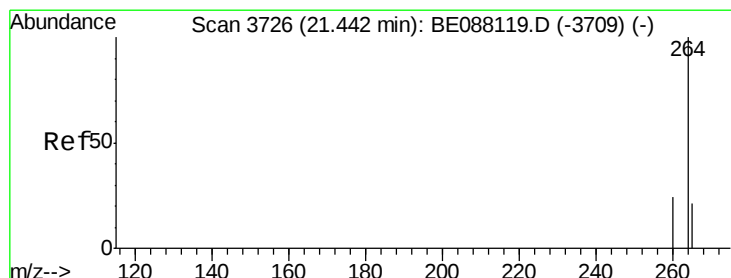
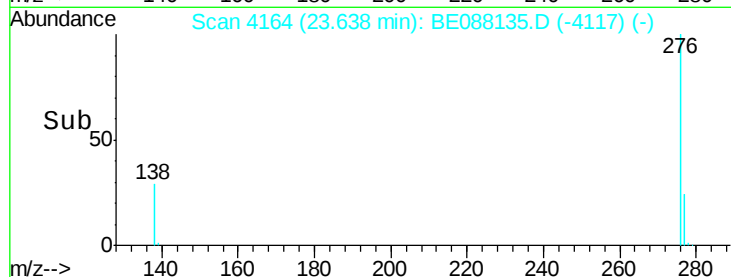
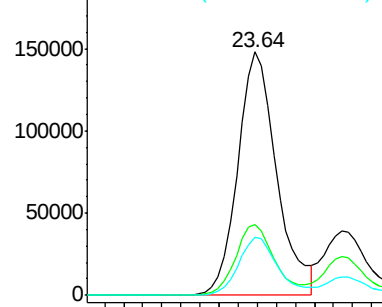
277 23.8 14.6 21.8#



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: 21.44 min Scan# 3727

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

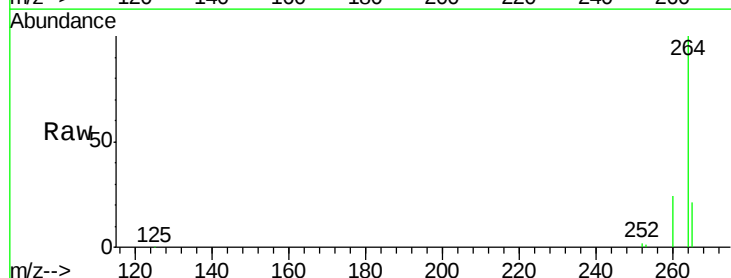
Tgt Ion: 264 Resp: 77287

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

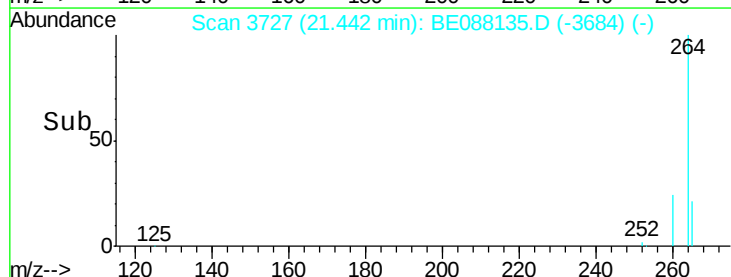
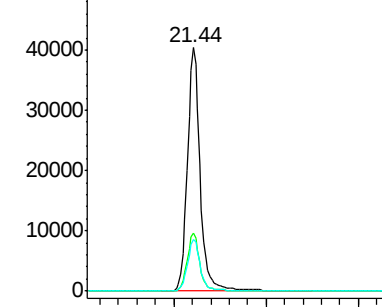
265 21.4 17.2 25.8

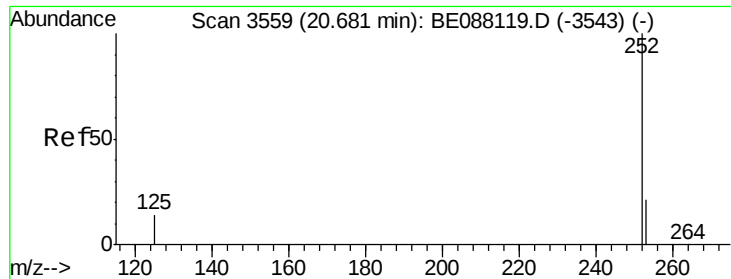


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 6.61 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS

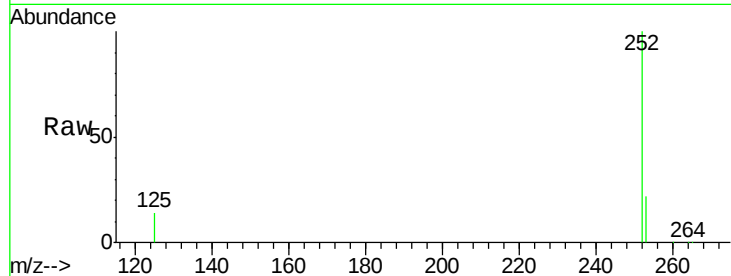
Tgt Ion:252 Resp: 121629

Ion Ratio Lower Upper

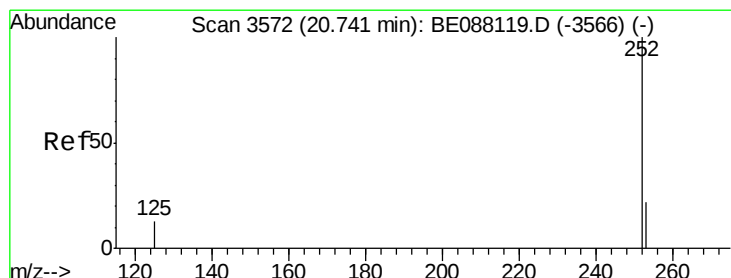
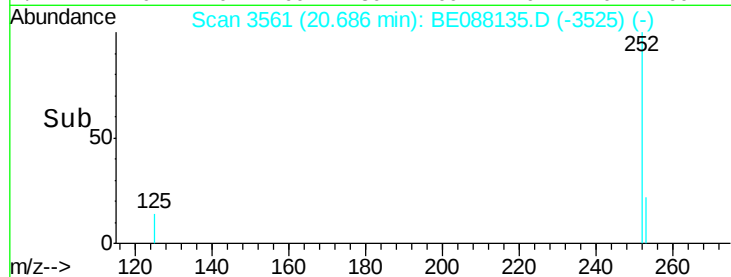
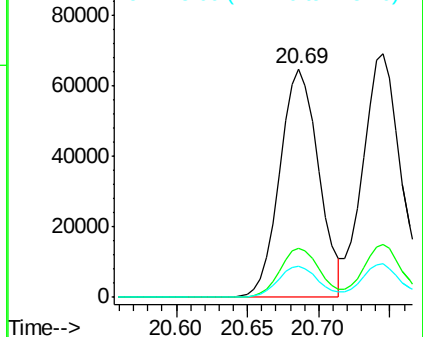
252 100

253 21.7 17.4 26.0

125 13.8 11.8 17.8



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



#24

Benzo(k)fluoranthene

Concen: 6.94 ng

RT: 20.75 min Scan# 3574

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

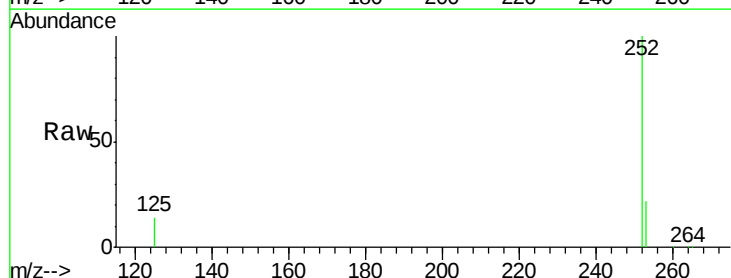
Tgt Ion:252 Resp: 136675

Ion Ratio Lower Upper

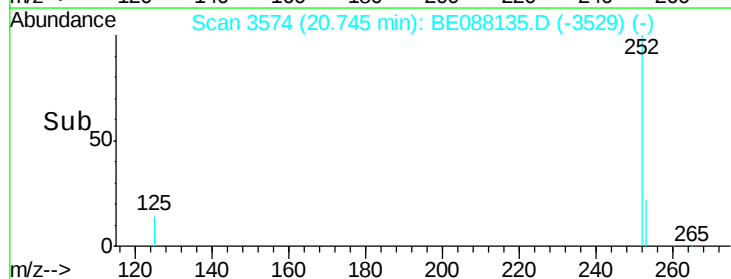
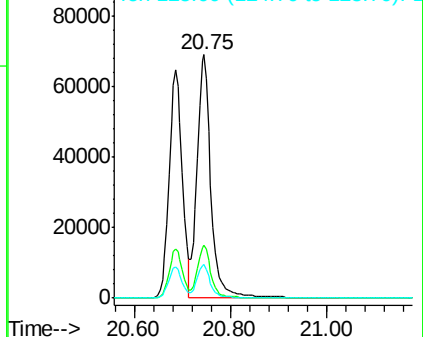
252 100

253 22.0 17.6 26.4

125 13.6 11.5 17.3



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: 7.11 ng

RT: 21.33 min Scan# 3702

Delta R.T. 0.00 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS

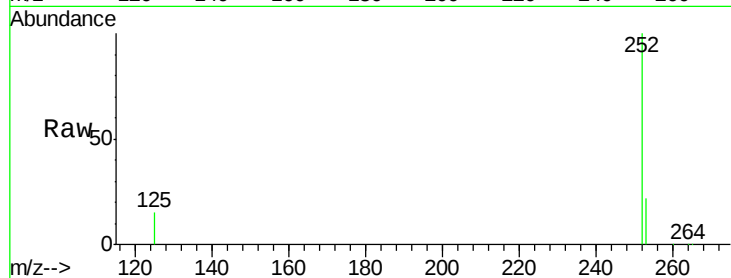
Tgt Ion:252 Resp: 120452

Ion Ratio Lower Upper

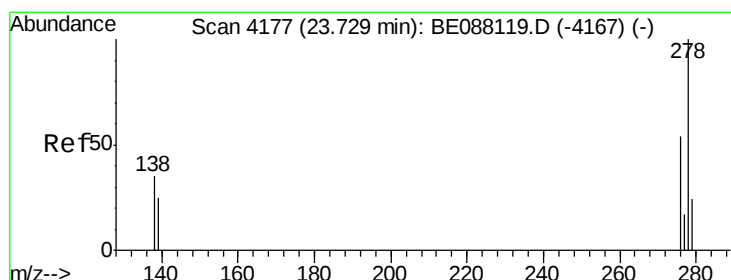
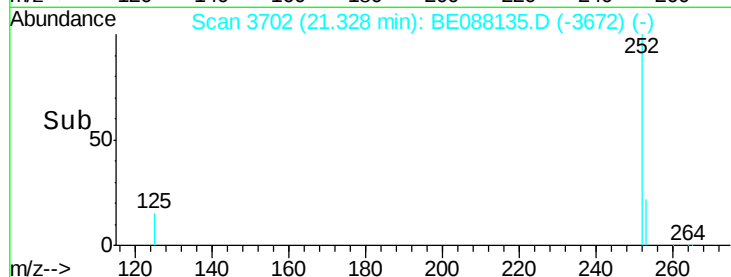
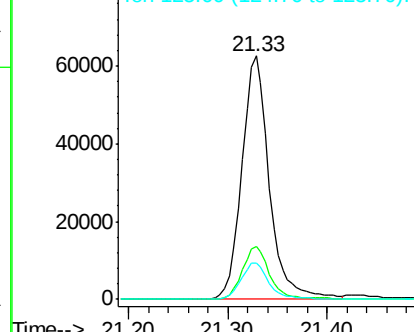
252 100

253 21.9 17.5 26.3

125 15.1 13.0 19.6



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



#26

Dibenzo(a,h)anthracene

Concen: 6.66 ng

RT: 23.74 min Scan# 4179

Delta R.T. 0.01 min

Lab File: BE088135.D

Acq: 21 Oct 2014 10:47

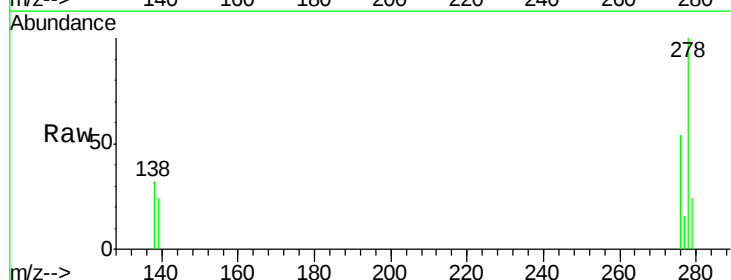
Tgt Ion:278 Resp: 110775

Ion Ratio Lower Upper

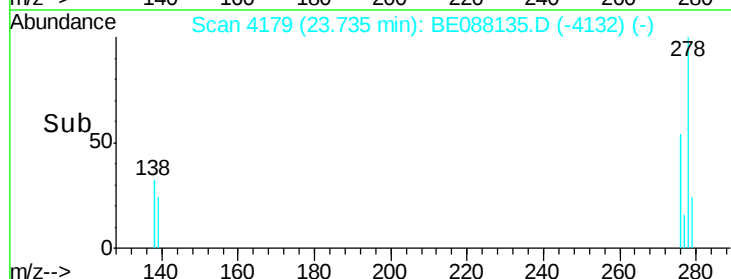
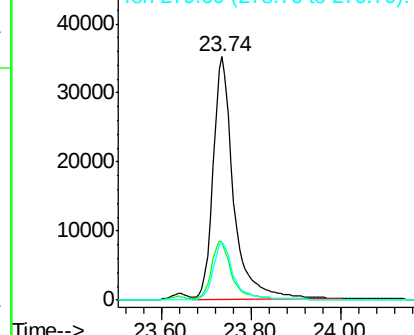
278 100

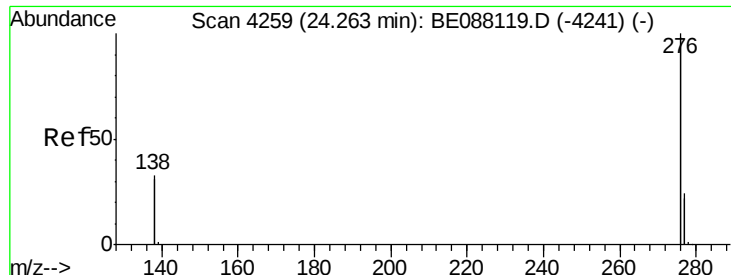
139 24.0 20.9 31.3

279 24.0 19.8 29.8



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: 6.52 ng

RT: 24.28 min Scan# 4262

Delta R.T. 0.01 min

Lab File: BE088135.D

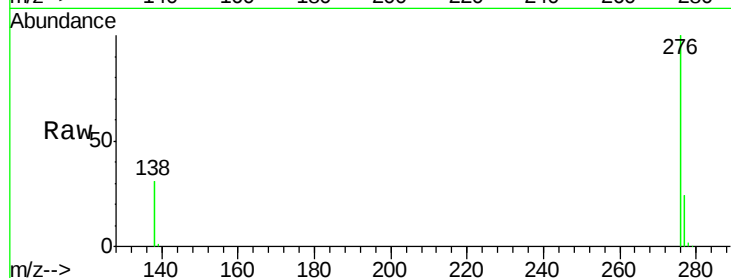
Acq: 21 Oct 2014 10:47

Instrument :

BNA_E

ClientSampleId :

PB79718BS



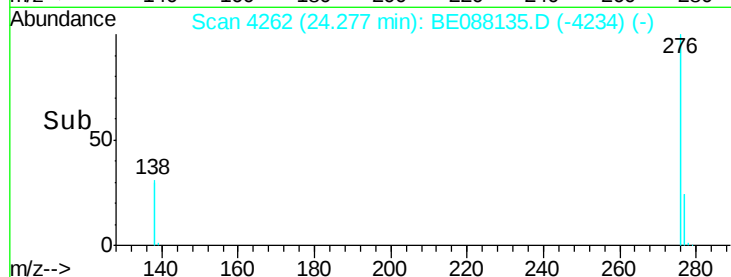
Tgt Ion: 276 Resp: 479154

Ion Ratio Lower Upper

276 100

277 24.0 19.2 28.8

138 30.8 26.6 40.0



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

