

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088172.D
 Acq On : 22 Oct 2014 9:09
 Operator : TP/JJ
 Sample : F4303-09DL 25X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS09-1014

Quant Time: Oct 22 11:20:33 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

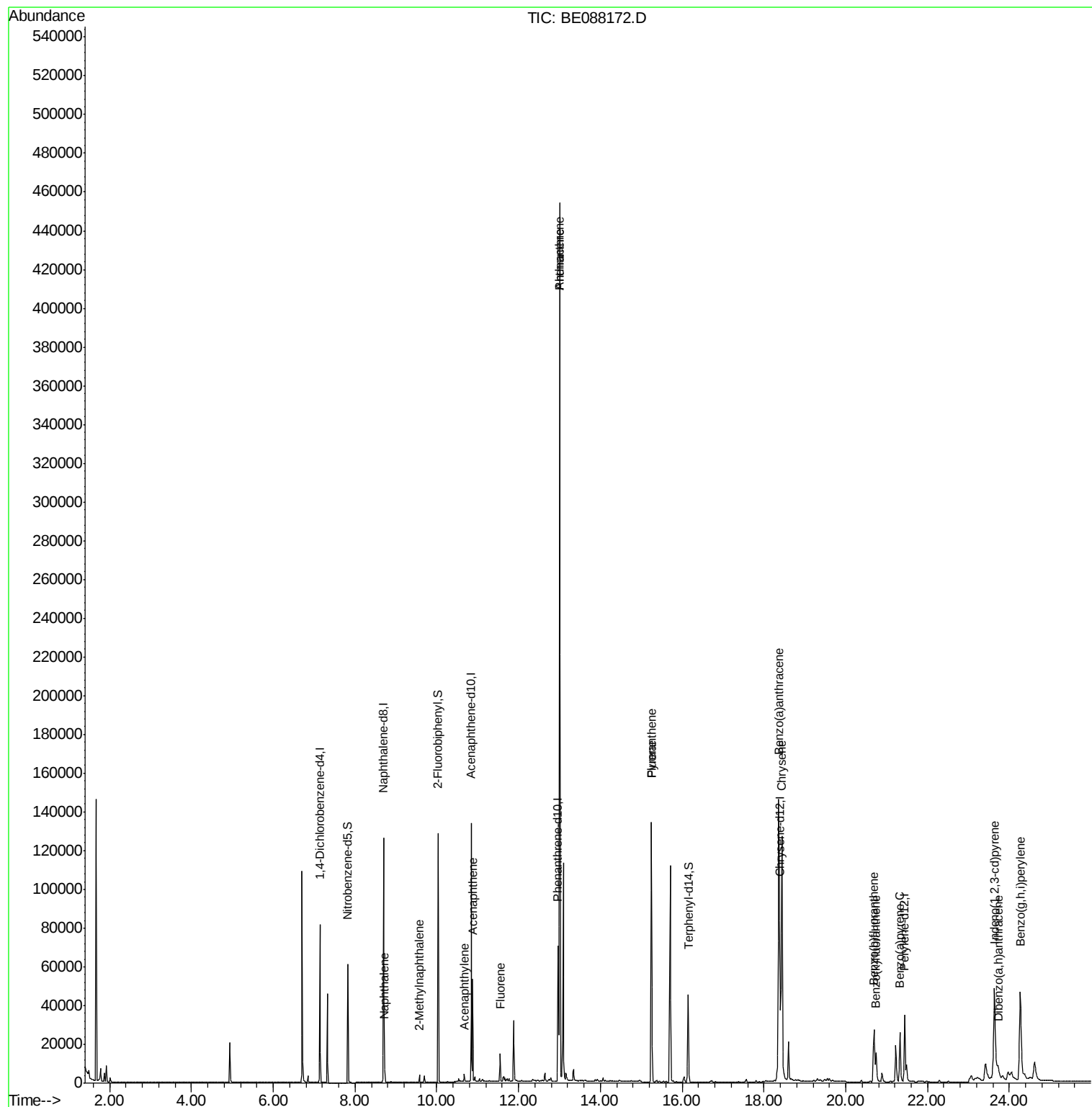
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	23403	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	94481	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	48608	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	88216	5.00	ng	0.00
16) Chrysene-d12	18.39	240	47483	5.00	ng	0.00
22) Perylene-d12	21.44	264	45964	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	26431	3.88	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	74875	5.58	ng	0.00
18) Terphenyl-d14	16.15	244	56188	7.35	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	6203	0.32	ng	99
6) 2-Methylnaphthalene	9.58	142	1687	0.14	ng	97
9) Acenaphthylene	10.67	152	3469	0.05	ng	# 76
10) Acenaphthene	10.88	154	6853	0.60	ng	98
11) Fluorene	11.55	166	7631	0.63	ng	99
13) Phenanthrene	13.01	178	431243	6.71	ng	95
14) Anthracene	13.01	178	431243	6.26	ng	99
15) Fluoranthene	15.25	202	130065	7.75	ng	100
17) Pyrene	15.25	202	128950	9.99	ng	100
19) Benzo(a)anthracene	18.36	228	174486	4.13	ng	98
20) Chrysene	18.44	228	176149	4.25	ng	98
21) Indeno(1,2,3-cd)pyrene	23.64	276	100190	2.18	ng	# 89
23) Benzo(b)fluoranthene	20.69	252	49142	4.49	ng	99
24) Benzo(k)fluoranthene	20.74	252	20554	1.75	ng	98
25) Benzo(a)pyrene	21.33	252	36268	3.60	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	4750	0.48	ng	# 95
27) Benzo(g,h,i)perylene	24.27	276	98950	2.27	ng	98

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

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

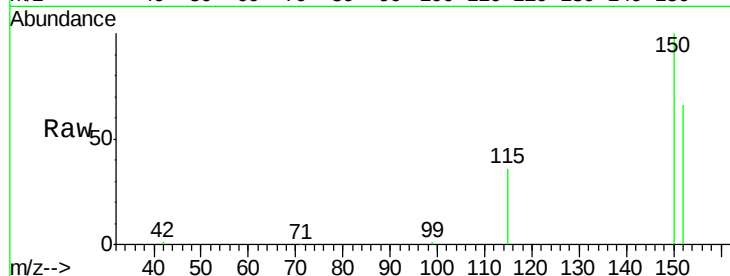
Tgt Ion:152 Resp: 23403

Ion Ratio Lower Upper

152 100

150 151.6 129.2 193.8

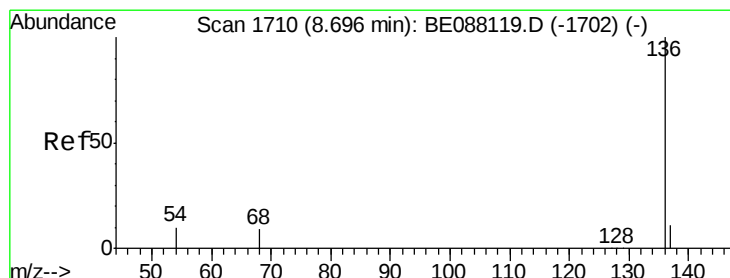
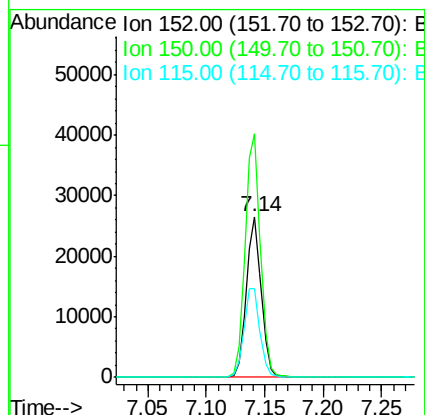
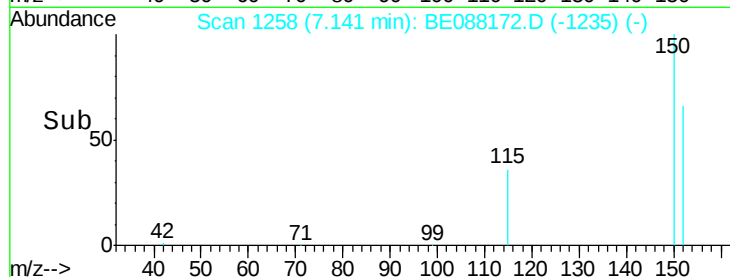
115 54.9 49.3 73.9



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



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

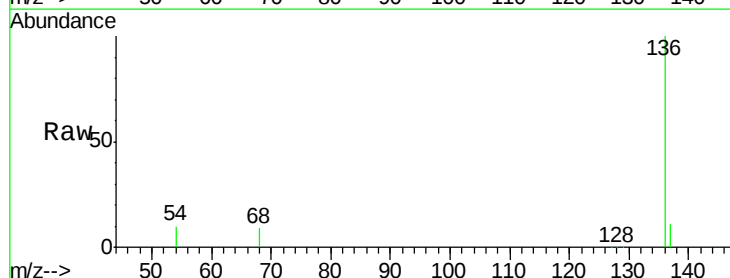
Tgt Ion:136 Resp: 94481

Ion Ratio Lower Upper

136 100

137 10.5 8.6 12.8

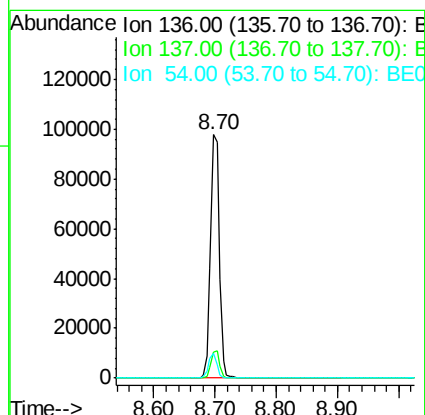
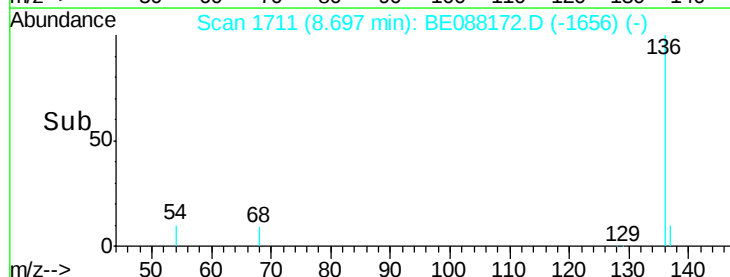
54 10.0 7.7 11.5

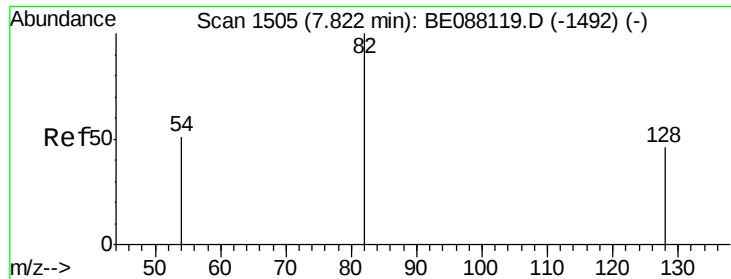


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 3.88 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

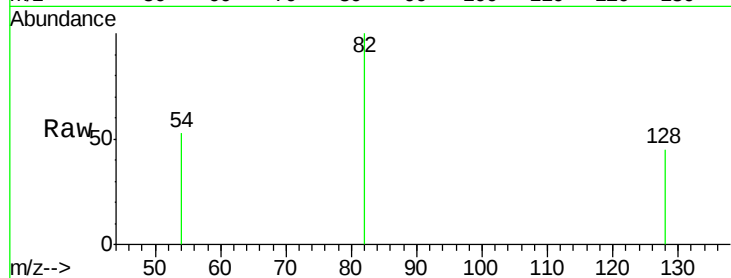
Tgt Ion: 82 Resp: 26431

Ion Ratio Lower Upper

82 100

128 44.6 37.1 55.7

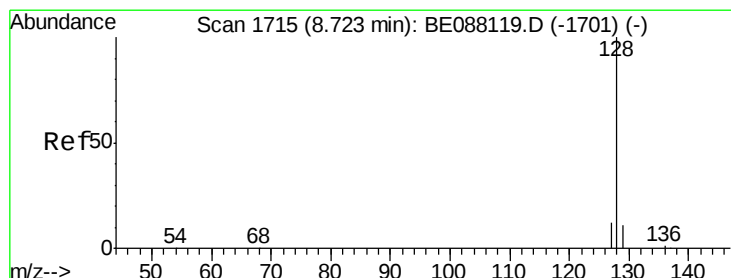
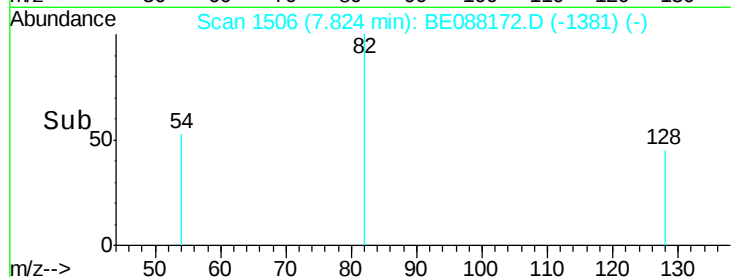
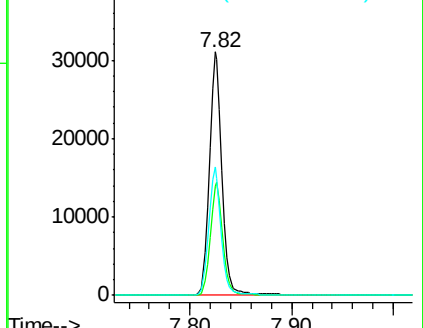
54 52.8 41.1 61.7



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



#5

Naphthalene

Concen: 0.32 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

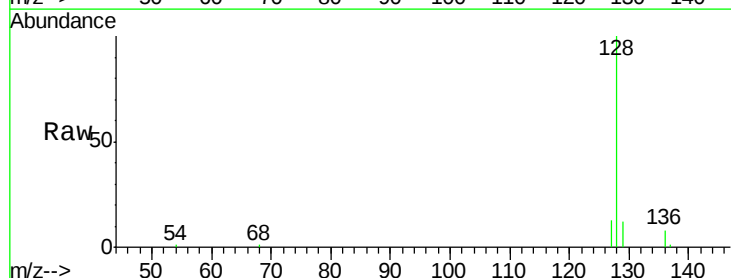
Tgt Ion: 128 Resp: 6203

Ion Ratio Lower Upper

128 100

129 11.7 8.9 13.3

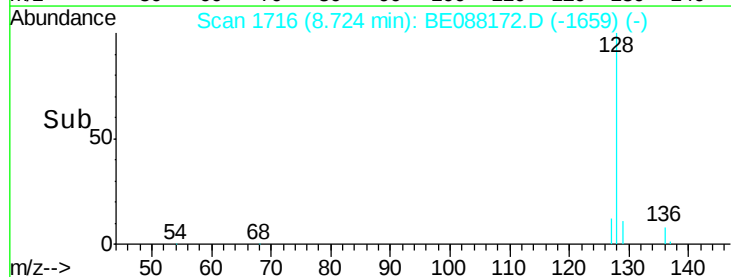
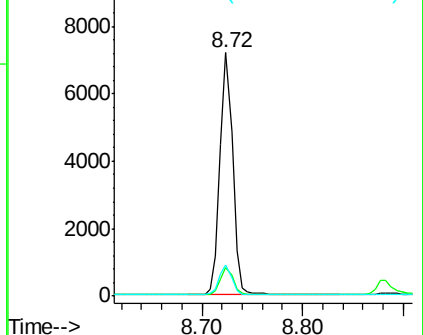
127 12.7 9.7 14.5

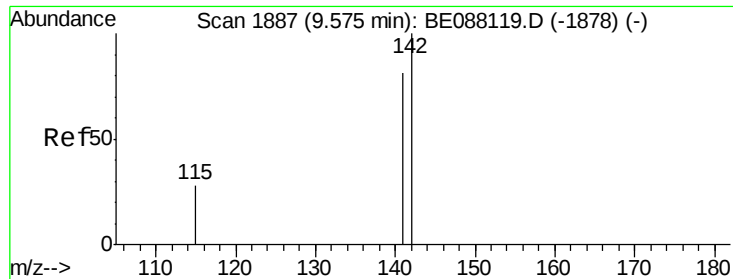


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

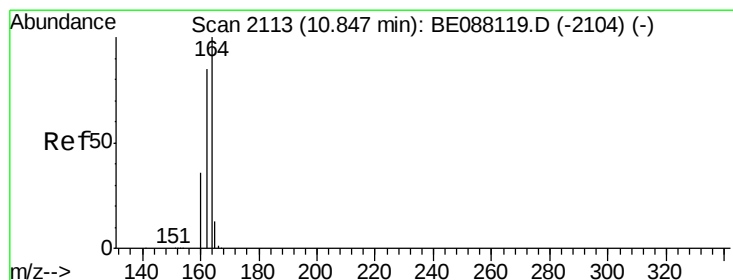
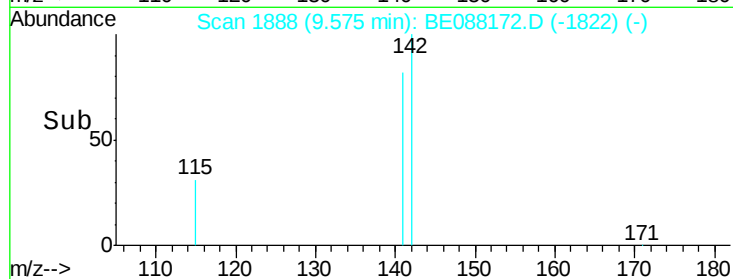
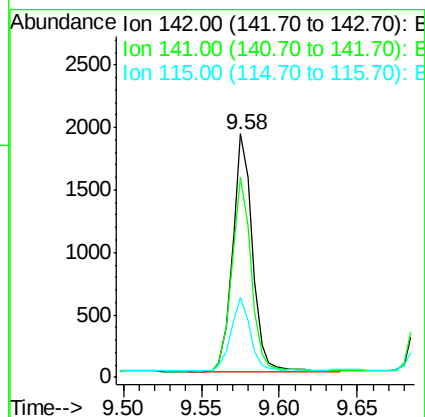
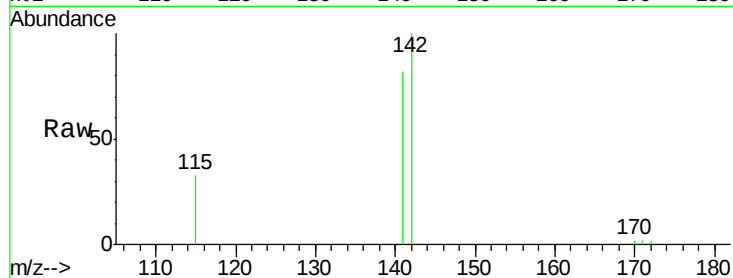




#6
2-Methylnaphthalene
Concen: 0.14 ng
RT: 9.58 min Scan# 1888
Delta R.T. 0.00 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

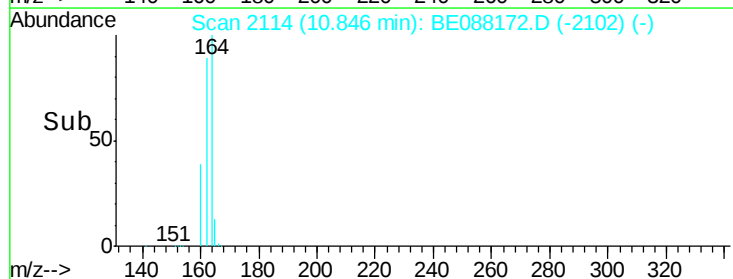
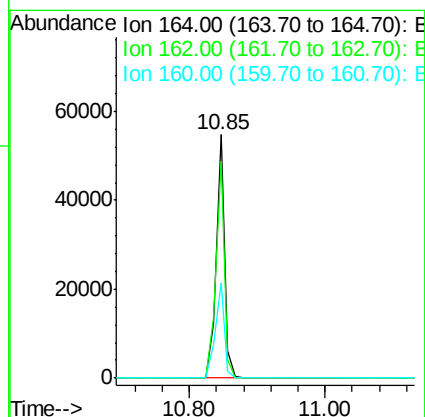
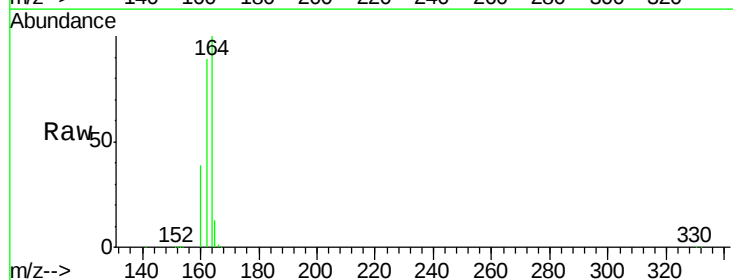
Instrument :
BNA_E
ClientSampleId :
YS19-SS09-1014

Tgt Ion:142 Resp: 1687
Ion Ratio Lower Upper
142 100
141 82.2 64.6 97.0
115 32.7 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: BE088172.D
Acq: 22 Oct 2014 9:09

Tgt Ion:164 Resp: 48608
Ion Ratio Lower Upper
164 100
162 89.0 68.3 102.5
160 39.1 28.7 43.1





#8

2-Fluorobiphenyl

Concen: 5.58 ng

RT: 10.03 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

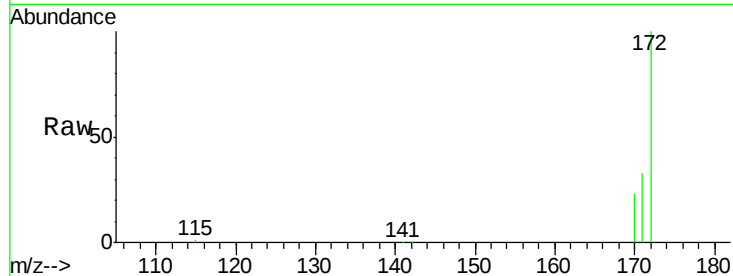
Tgt Ion:172 Resp: 74875

Ion Ratio Lower Upper

172 100

171 33.0 25.4 38.2

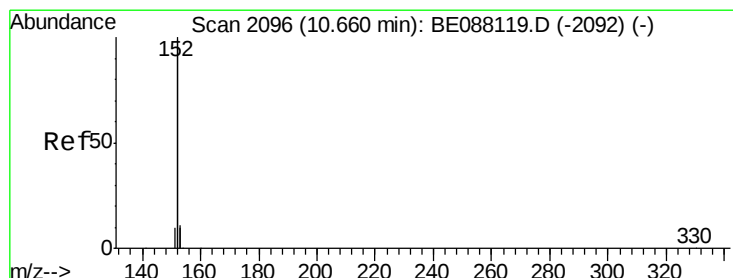
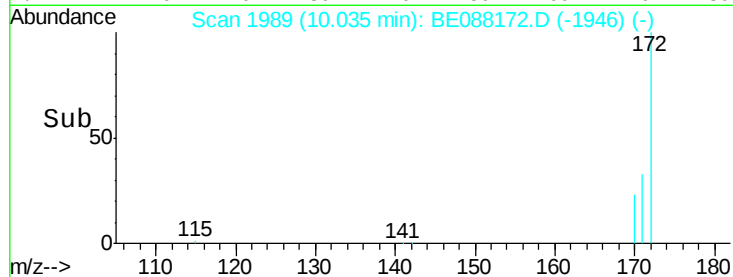
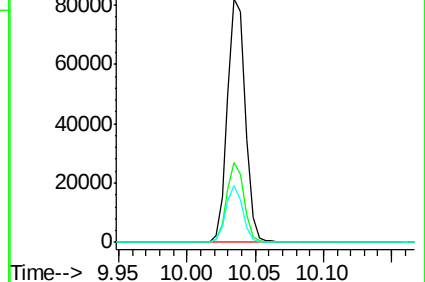
170 23.3 17.4 26.2



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



#9

Acenaphthylene

Concen: 0.05 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

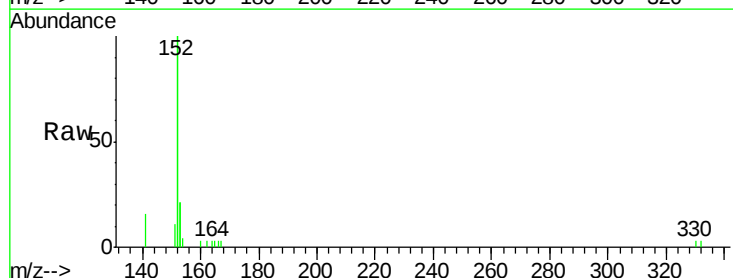
Tgt Ion:152 Resp: 3469

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

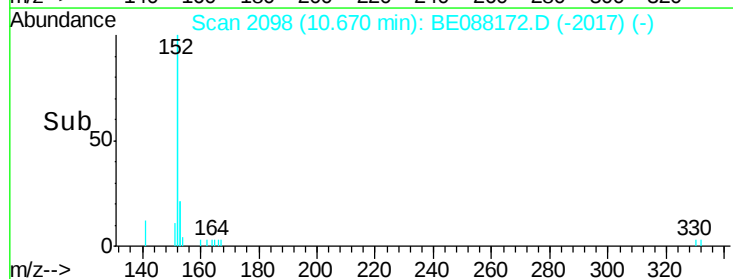
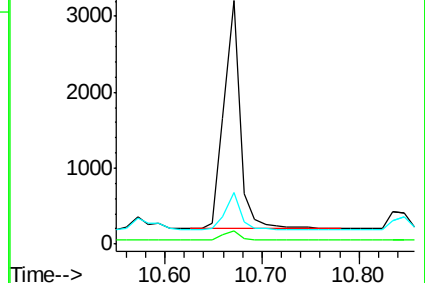
153 0.0 10.4 15.6#

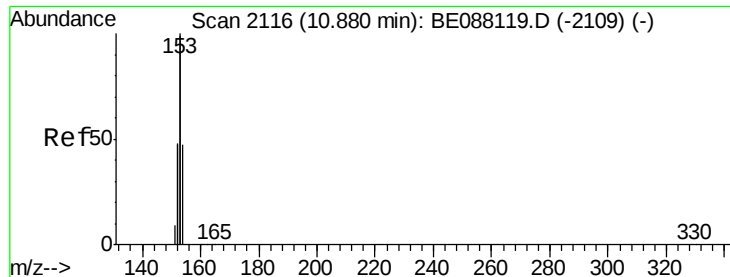


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.60 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

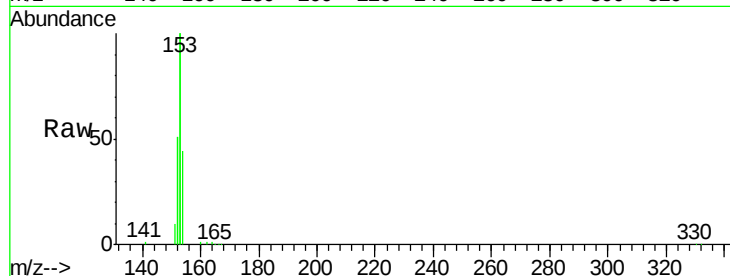
Tgt Ion:154 Resp: 6853

Ion Ratio Lower Upper

154 100

153 408.9 327.8 491.6

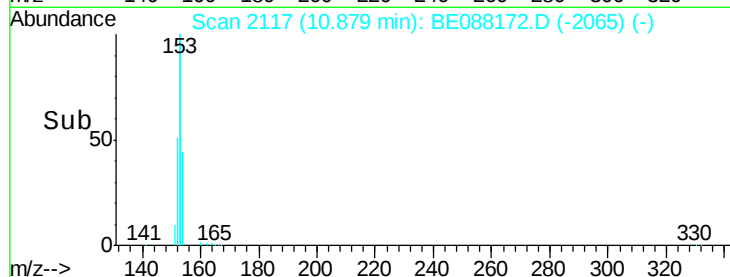
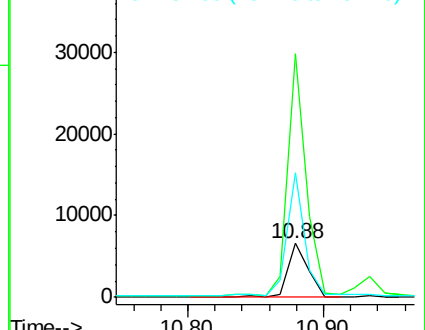
152 203.8 157.6 236.4



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



#11

Fluorene

Concen: 0.63 ng

RT: 11.55 min Scan# 2178

Delta R.T. -0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

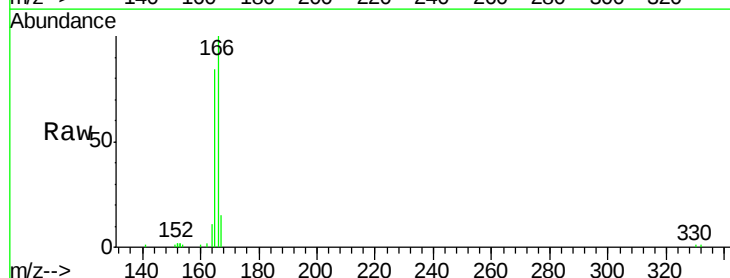
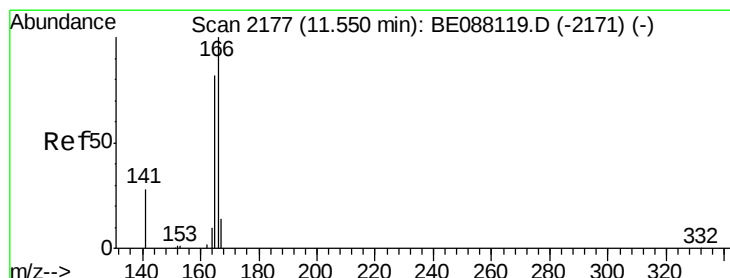
Tgt Ion:166 Resp: 7631

Ion Ratio Lower Upper

166 100

165 89.8 71.4 107.2

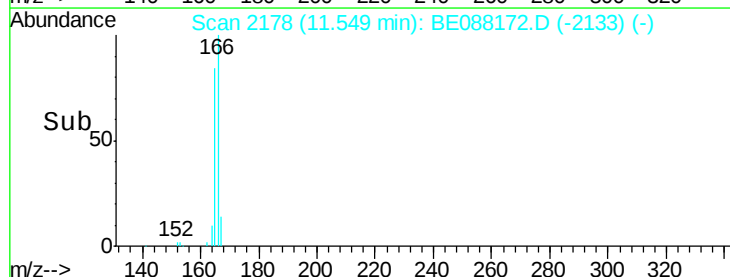
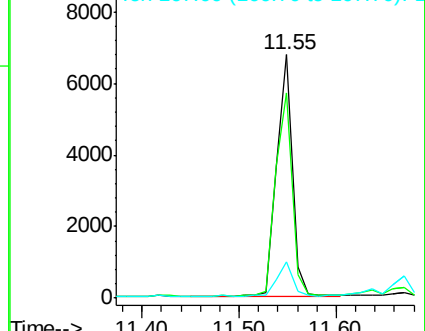
167 14.2 10.6 16.0

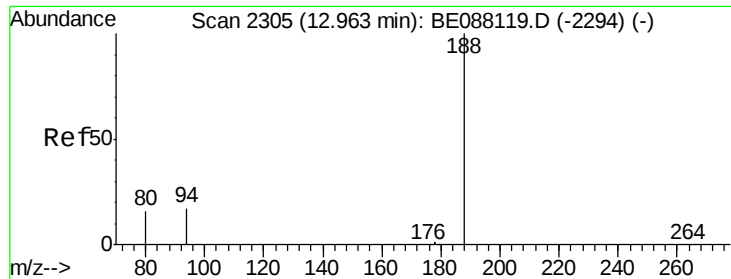


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

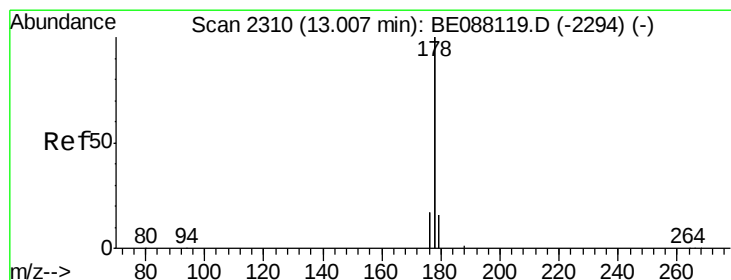
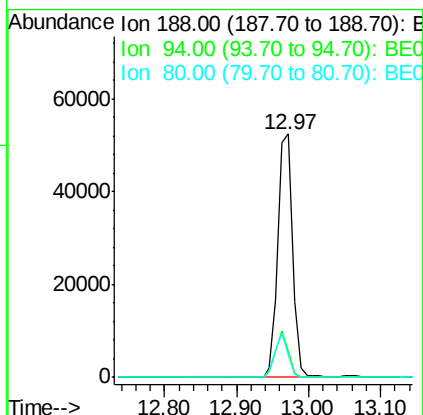
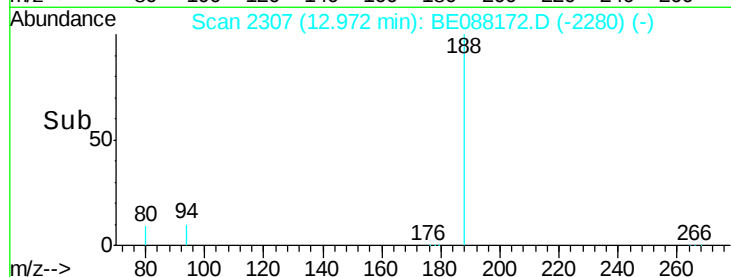
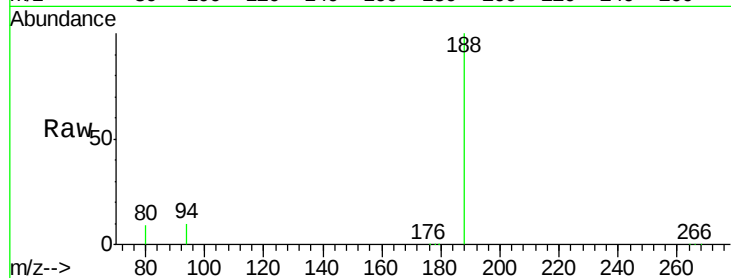




#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.97 min Scan# 2307
 Delta R.T. 0.01 min
 Lab File: BE088172.D
 Acq: 22 Oct 2014 9:09

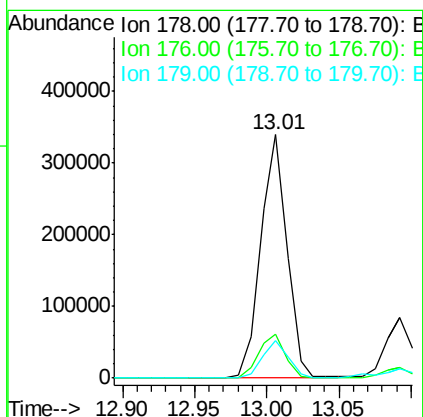
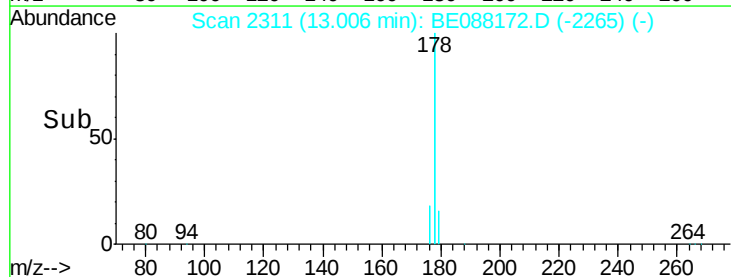
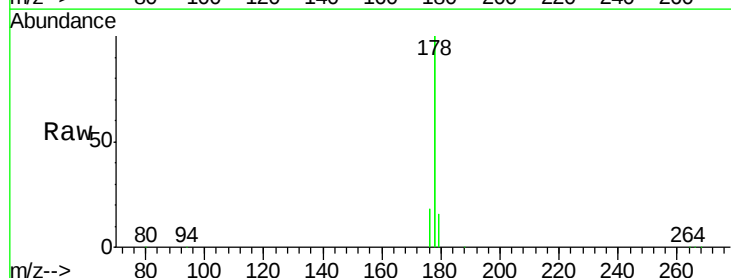
Instrument :
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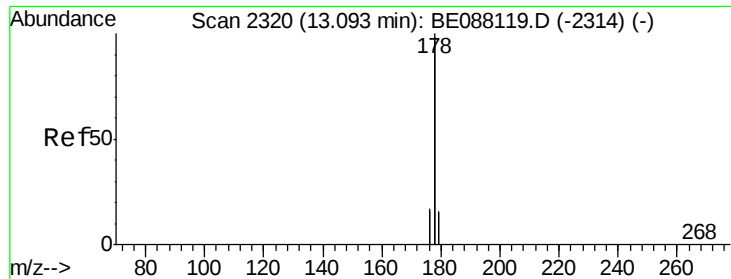
Tgt Ion:188 Resp: 88216
 Ion Ratio Lower Upper
 188 100
 94 10.4 13.9 20.9#
 80 9.1 12.9 19.3#



#13
 Phenanthrene
 Concen: 6.71 ng
 RT: 13.01 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: BE088172.D
 Acq: 22 Oct 2014 9:09

Tgt Ion:178 Resp: 431243
 Ion Ratio Lower Upper
 178 100
 176 18.5 12.5 18.7
 179 15.4 13.5 20.3





#14

Anthracene

Concen: 6.26 ng

RT: 13.01 min Scan# 2311

Delta R.T. -0.09 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

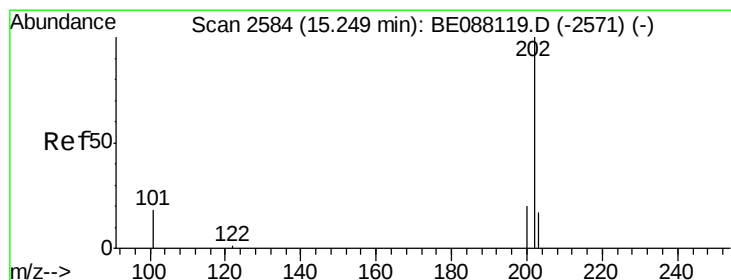
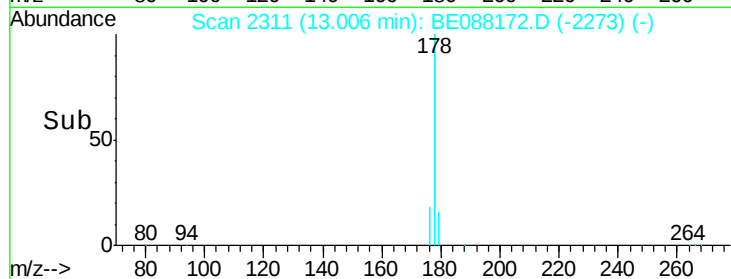
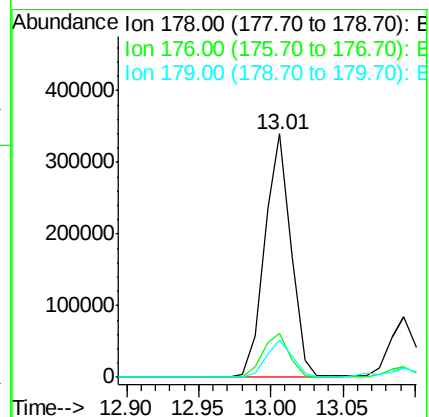
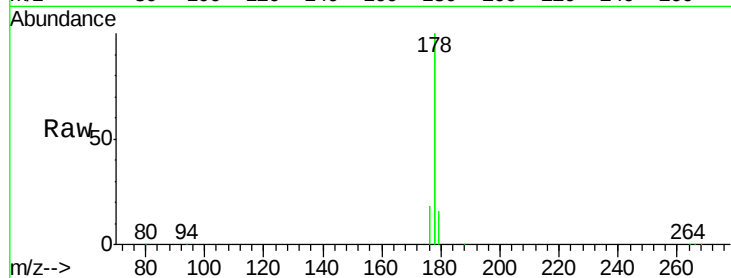
Tgt Ion:178 Resp: 431243

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

179 15.4 12.5 18.7



#15

Fluoranthene

Concen: 7.75 ng

RT: 15.25 min Scan# 2586

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

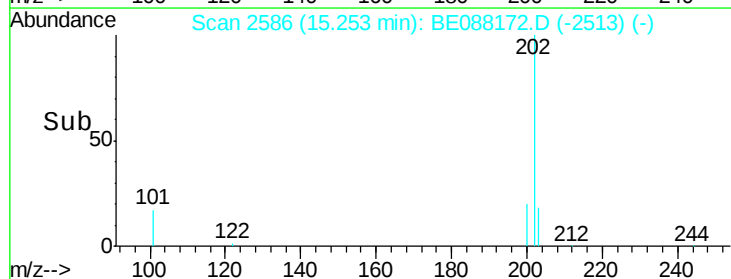
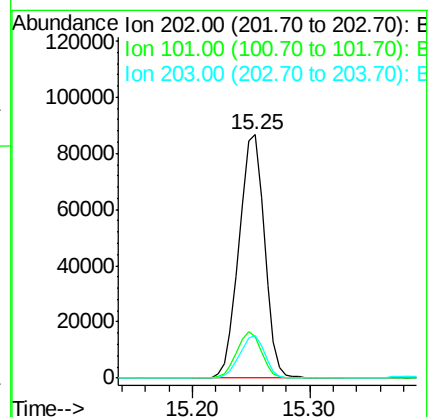
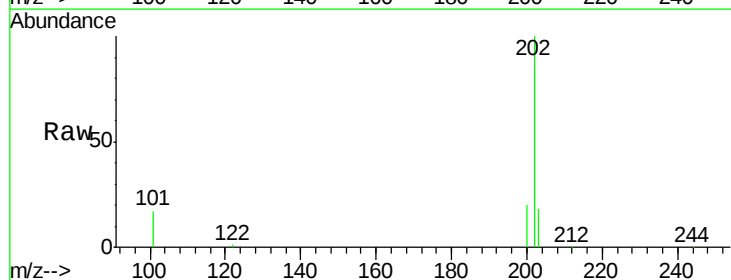
Tgt Ion:202 Resp: 130065

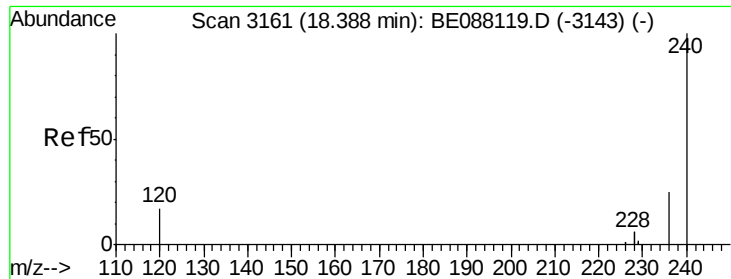
Ion Ratio Lower Upper

202 100

101 18.5 14.8 22.2

203 17.3 13.5 20.3





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.39 min Scan# 3162

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

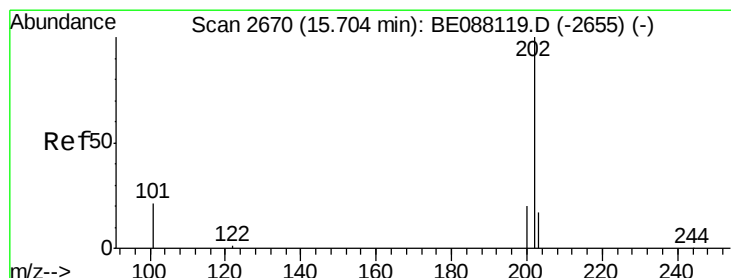
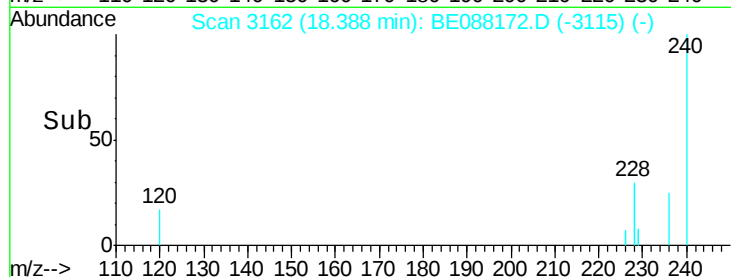
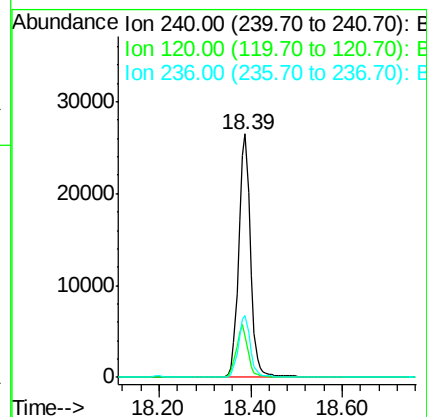
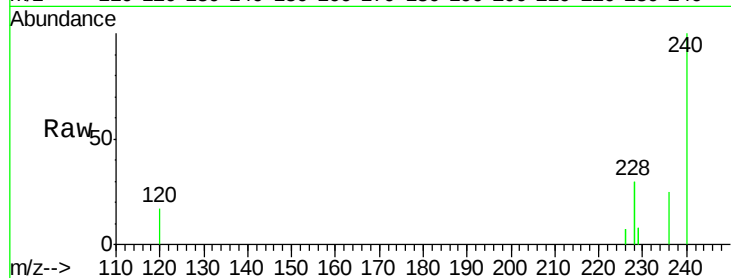
Tgt Ion:240 Resp: 47483

Ion Ratio Lower Upper

240 100

120 17.1 13.9 20.9

236 25.2 19.9 29.9



#17

Pyrene

Concen: 9.99 ng

RT: 15.25 min Scan# 2586

Delta R.T. -0.45 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

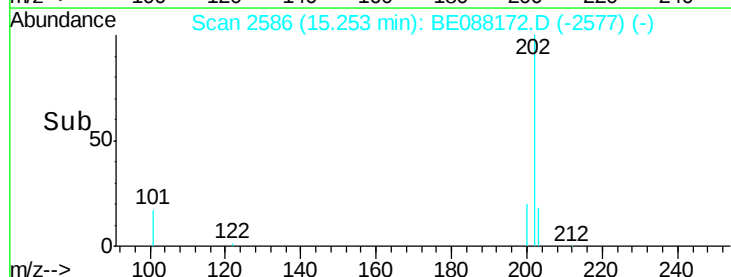
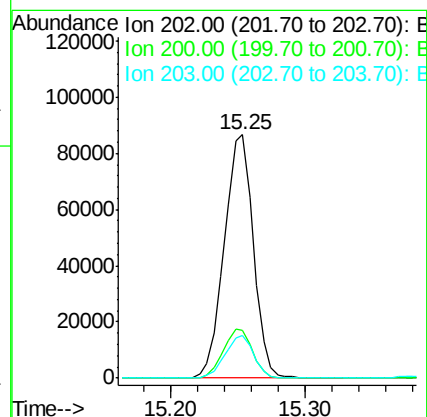
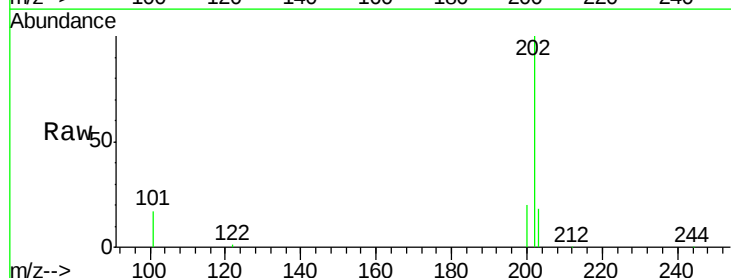
Tgt Ion:202 Resp: 128950

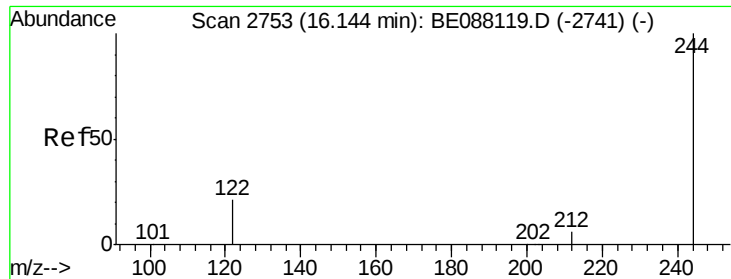
Ion Ratio Lower Upper

202 100

200 20.1 16.1 24.1

203 17.3 13.9 20.9





#18

Terphenyl-d14

Concen: 7.35 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

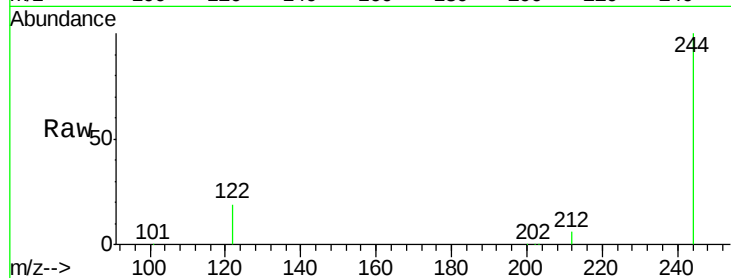
Tgt Ion:244 Resp: 56188

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

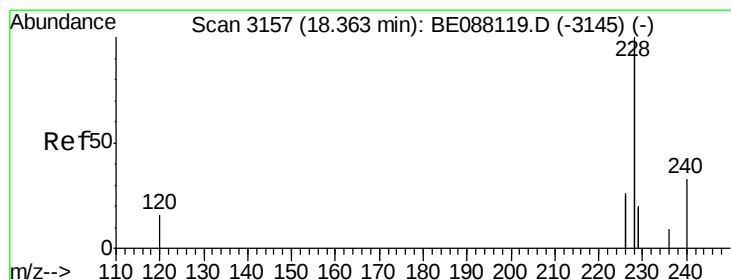
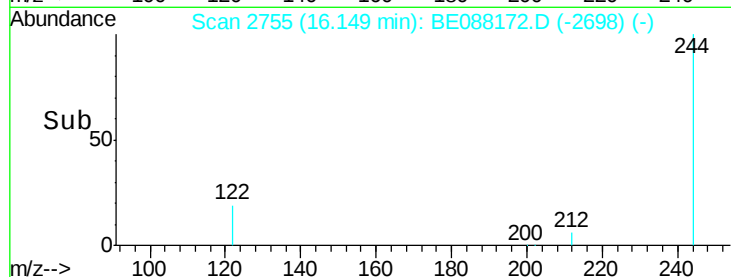
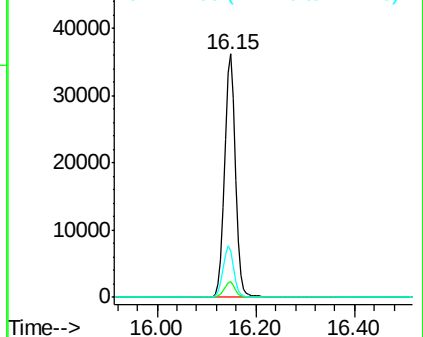
122 18.9 17.5 26.3



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: 4.13 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

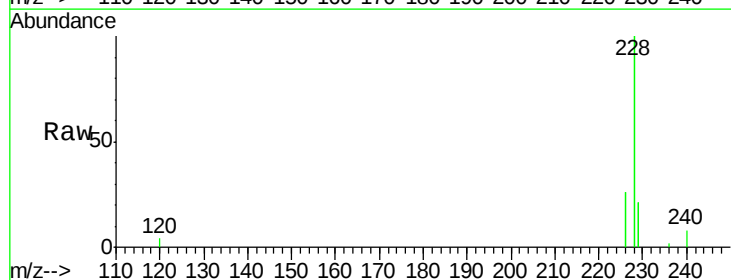
Tgt Ion:228 Resp: 174486

Ion Ratio Lower Upper

228 100

226 25.6 20.8 31.2

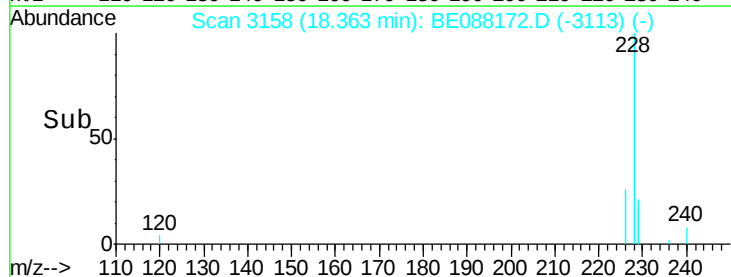
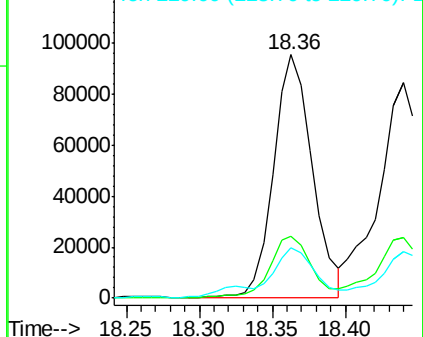
229 20.6 15.6 23.4

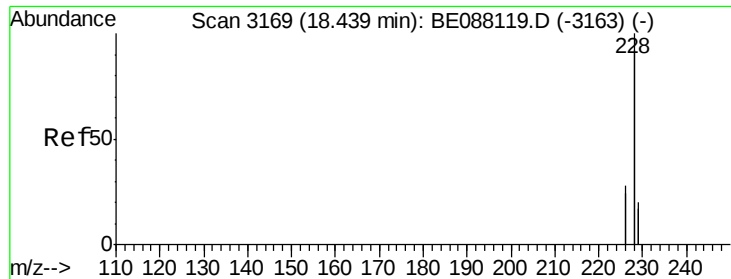


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 4.25 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

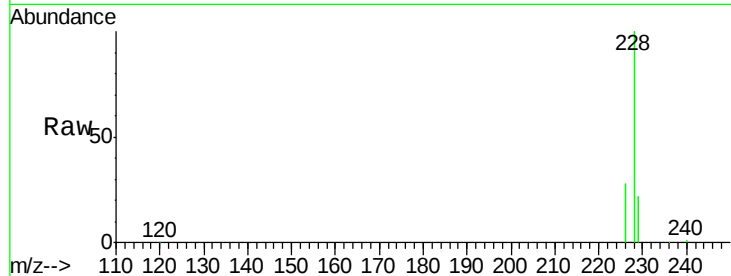
Tgt Ion:228 Resp: 176149

Ion Ratio Lower Upper

228 100

226 28.3 22.7 34.1

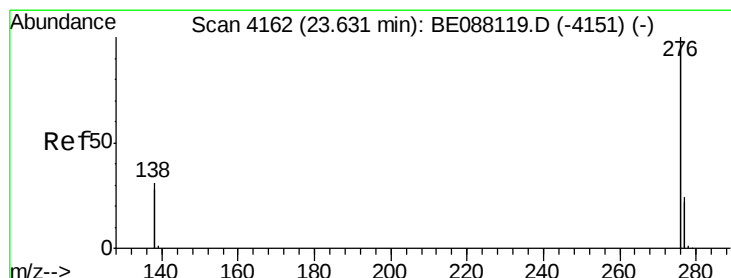
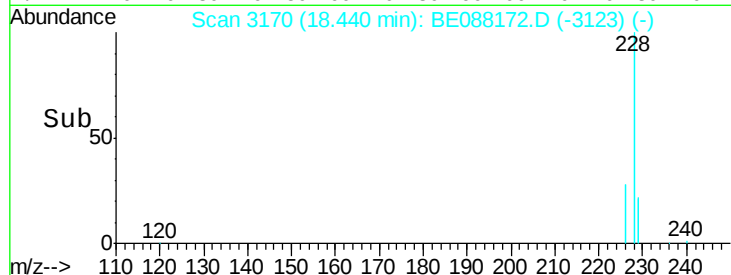
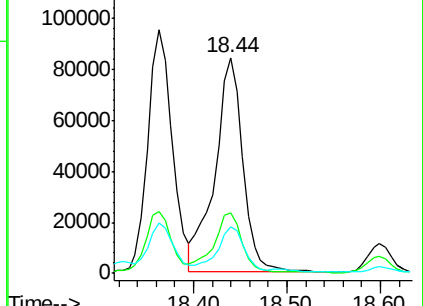
229 21.7 15.8 23.6



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: 2.18 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

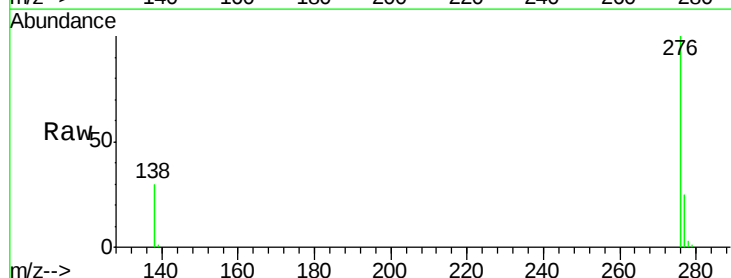
Tgt Ion:276 Resp: 100190

Ion Ratio Lower Upper

276 100

138 26.7 18.5 27.7

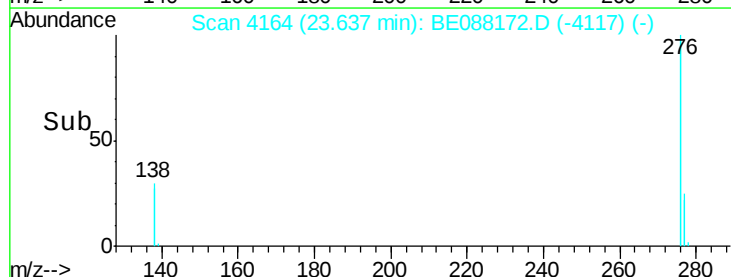
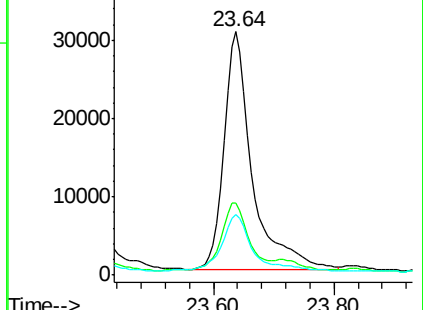
277 25.6 14.6 21.8#

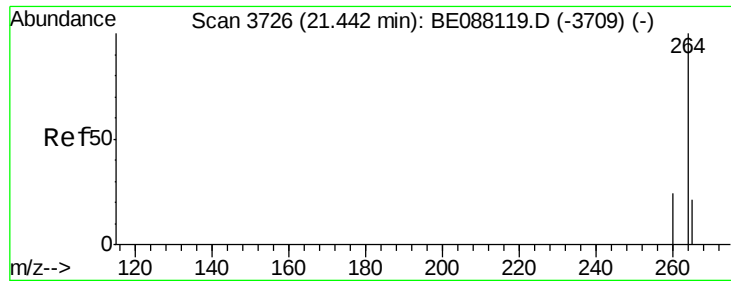


Abundance Ion 276.00 (275.70 to 276.70): E

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: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

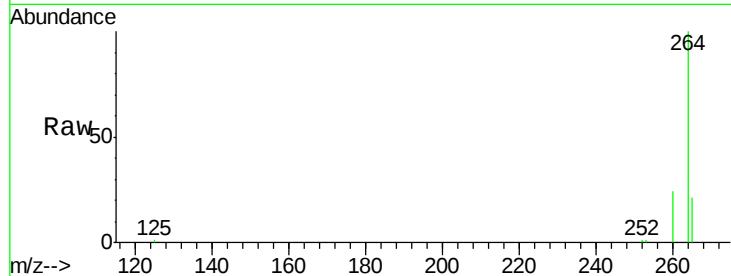
Tgt Ion:264 Resp: 45964

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

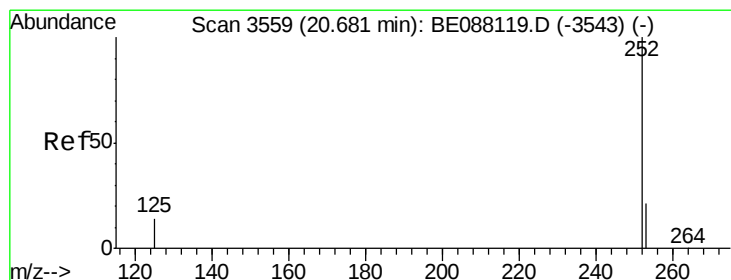
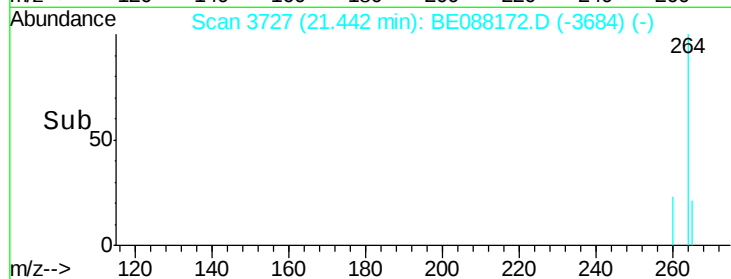
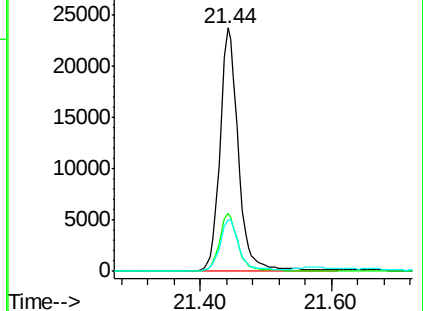
265 21.4 17.2 25.8



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: 4.49 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

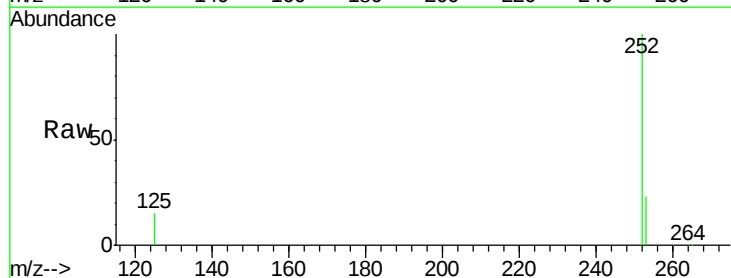
Tgt Ion:252 Resp: 49142

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

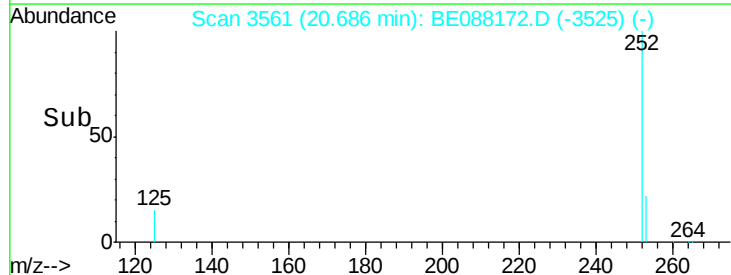
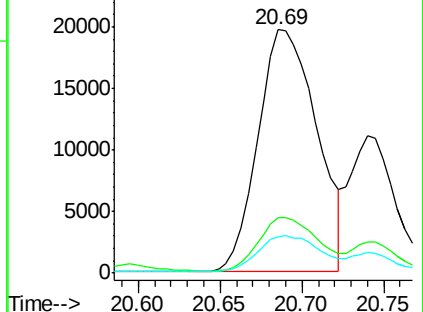
125 15.0 11.8 17.8

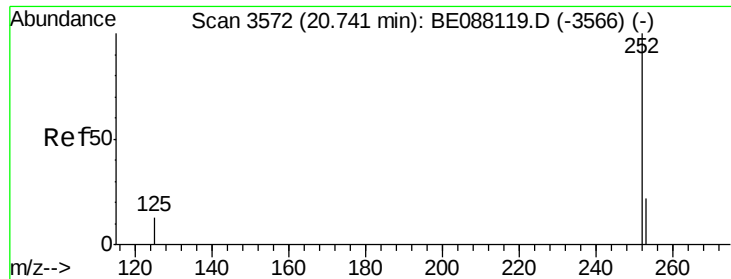


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 1.75 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

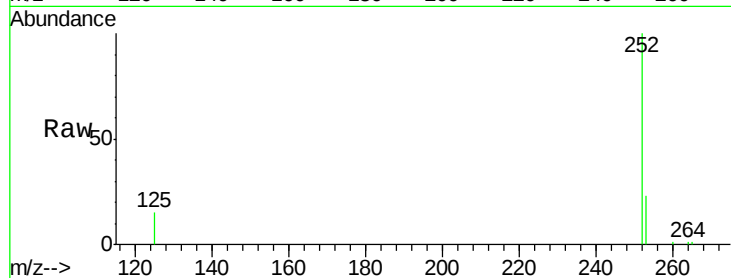
Tgt Ion: 252 Resp: 20554

Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

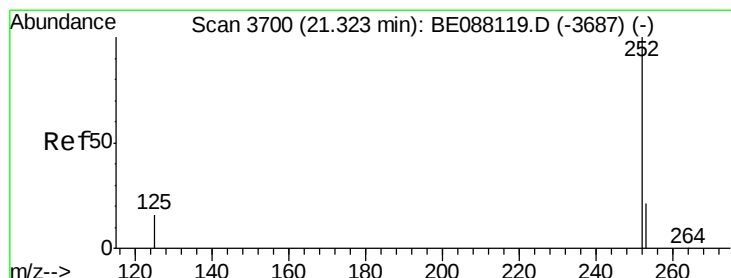
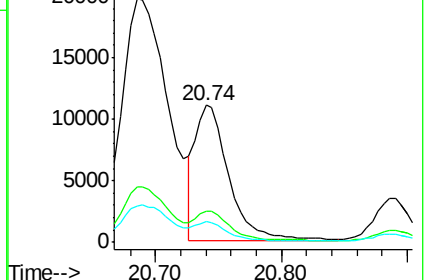
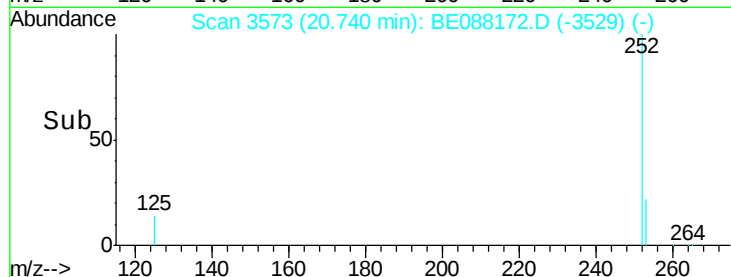
125 15.1 11.5 17.3



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: 3.60 ng

RT: 21.33 min Scan# 3702

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

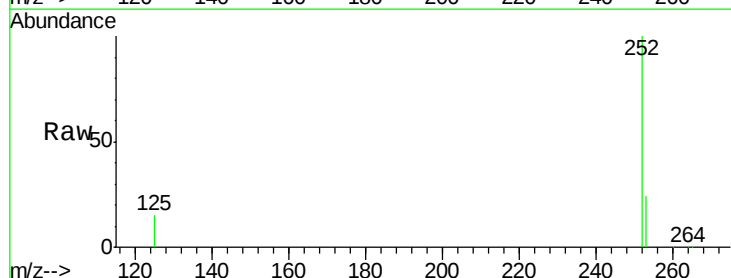
Tgt Ion: 252 Resp: 36268

Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

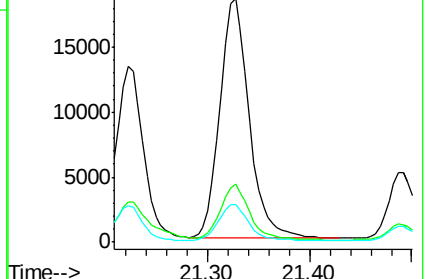
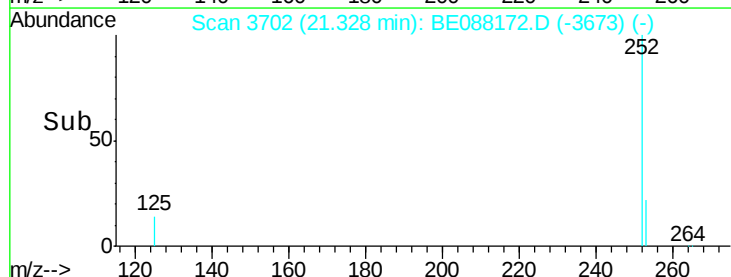
125 15.3 13.0 19.6



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: 0.48 ng

RT: 23.73 min Scan# 4178

Delta R.T. -0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

YS19-SS09-1014

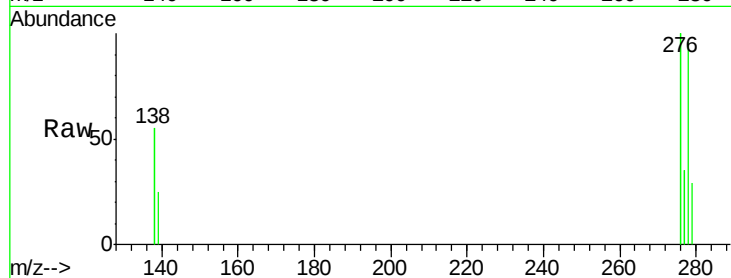
Tgt Ion: 278 Resp: 4750

Ion Ratio Lower Upper

278 100

139 26.2 20.9 31.3

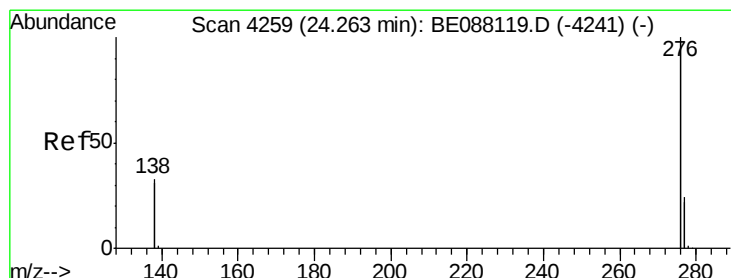
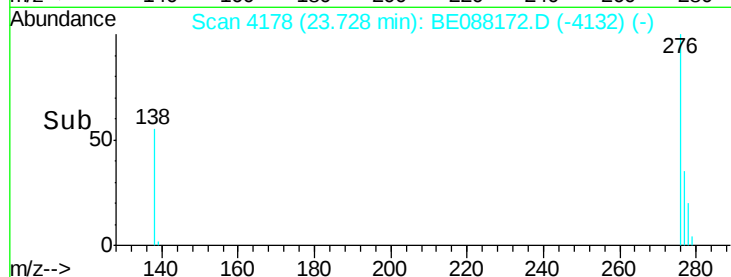
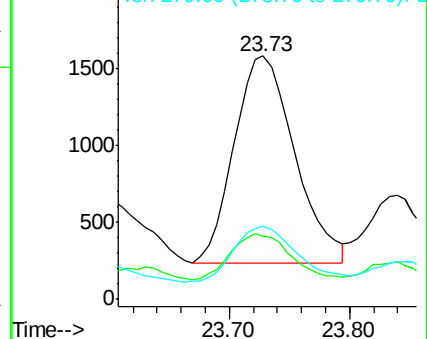
279 30.3 19.8 29.8#



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: 2.27 ng

RT: 24.27 min Scan# 4261

Delta R.T. 0.01 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

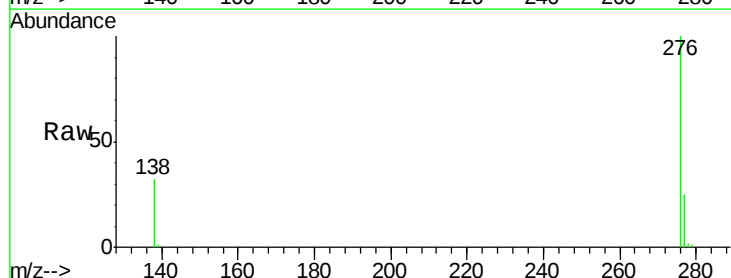
Tgt Ion: 276 Resp: 98950

Ion Ratio Lower Upper

276 100

277 24.7 19.2 28.8

138 32.2 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

