

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088171.D
 Acq On : 22 Oct 2014 8:37
 Operator : TP/JJ
 Sample : F4303-17DL 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB06-1014DL

Quant Time: Oct 22 11:15:59 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	24907	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	100622	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	51579	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	77971	5.00	ng	0.00
16) Chrysene-d12	18.39	240	50790	5.00	ng	0.00
22) Perylene-d12	21.45	264	45798	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	209909	28.94	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	293047	20.57	ng	0.00
18) Terphenyl-d14	16.15	244	221250	27.07	ng	0.00

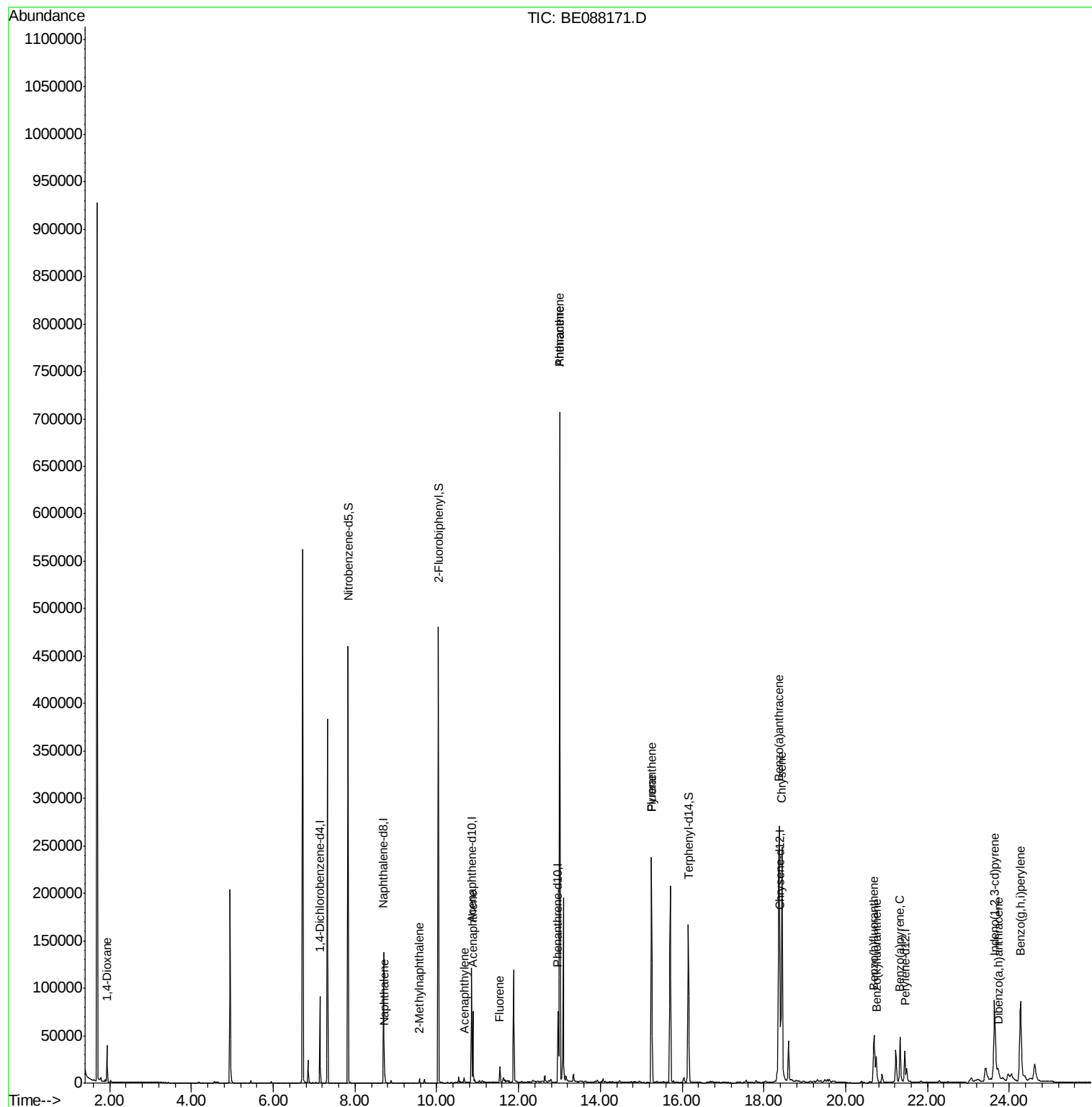
Target Compounds				Qvalue		
2) 1,4-Dioxane	1.94	88	1281	0.36	ng	# 1
5) Naphthalene	8.72	128	8450	0.41	ng	99
6) 2-Methylnaphthalene	9.57	142	2143	0.17	ng	94
9) Acenaphthylene	10.67	152	5056	0.06	ng	# 76
10) Acenaphthene	10.88	154	9100	0.75	ng	99
11) Fluorene	11.54	166	9768	0.76	ng	99
13) Phenanthrene	13.01	178	660001	11.79	ng	95
14) Anthracene	13.01	178	660001	10.85	ng	99
15) Fluoranthene	15.25	202	235799	15.89	ng	99
17) Pyrene	15.25	202	234191	16.96	ng	100
19) Benzo(a)anthracene	18.36	228	340920	7.55	ng	99
20) Chrysene	18.44	228	334932	7.56	ng	98
21) Indeno(1,2,3-cd)pyrene	23.64	276	177254	3.60	ng	# 88
23) Benzo(b)fluoranthene	20.69	252	89968	8.25	ng	99
24) Benzo(k)fluoranthene	20.74	252	38585	3.31	ng	99
25) Benzo(a)pyrene	21.33	252	66229	6.60	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	8446	0.86	ng	95
27) Benzo(g,h,i)perylene	24.28	276	178507	4.10	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: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL

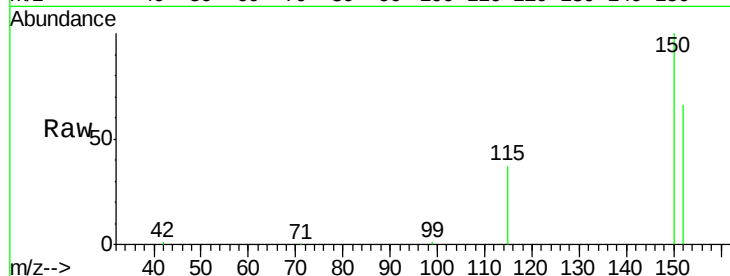
Tgt Ion:152 Resp: 24907

Ion Ratio Lower Upper

152 100

150 152.4 129.2 193.8

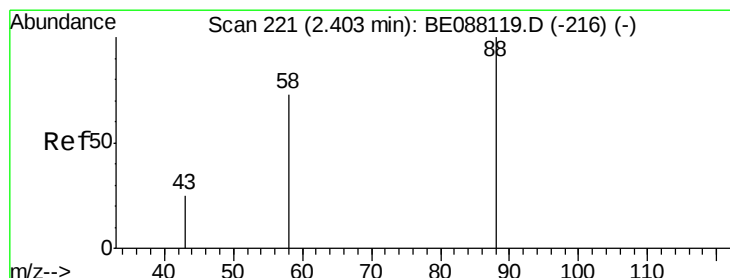
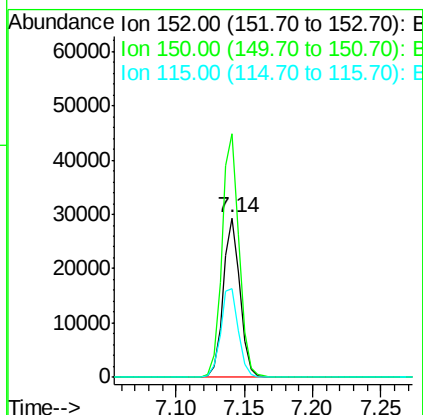
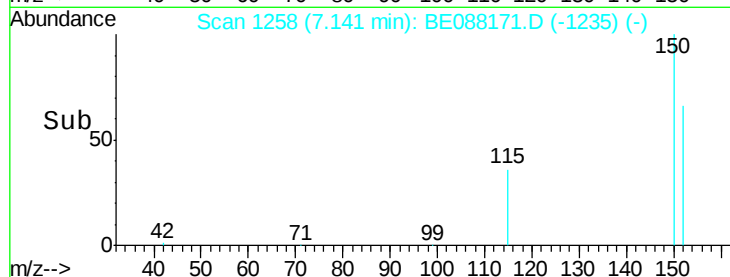
115 55.8 49.3 73.9



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: 0.36 ng

RT: 1.94 min Scan# 119

Delta R.T. -0.47 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

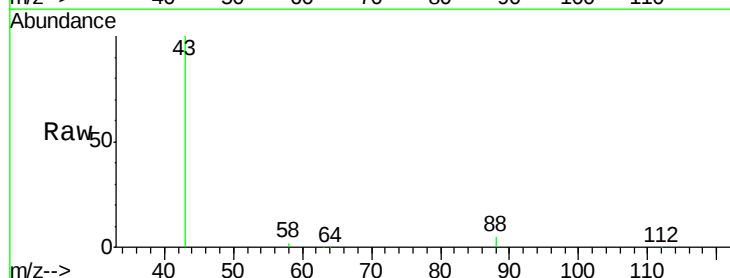
Tgt Ion: 88 Resp: 1281

Ion Ratio Lower Upper

88 100

58 23.7 59.5 89.3#

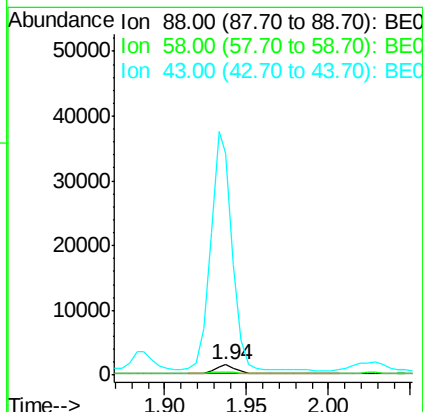
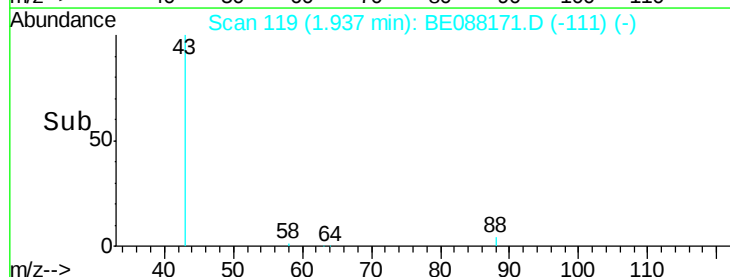
43 2600.7 21.2 31.8#

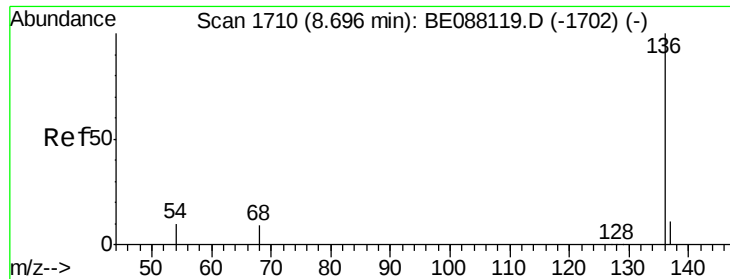


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

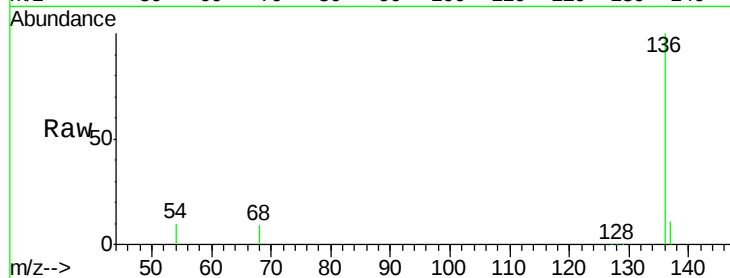




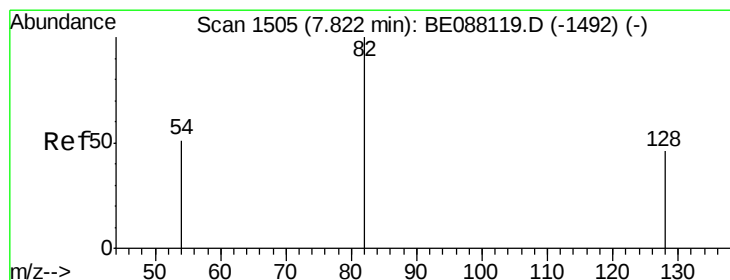
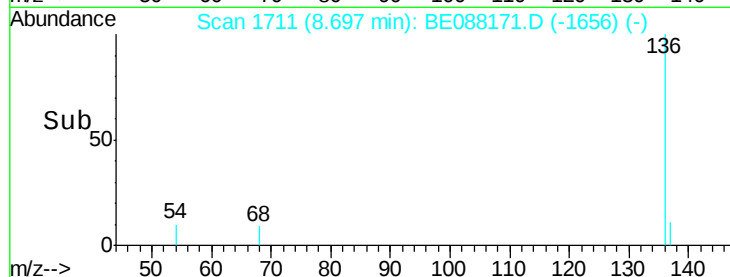
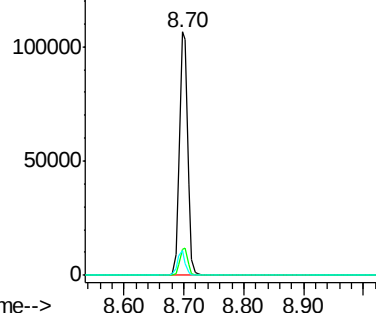
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1711
Delta R.T. 0.00 min
Lab File: BE088171.D
Acq: 22 Oct 2014 8:37

Instrument :
BNA_E
ClientSampleId :
YS19-SB06-1014DL

Tgt Ion: 136 Resp: 100622
Ion Ratio Lower Upper
136 100
137 10.6 8.6 12.8
54 10.0 7.7 11.5

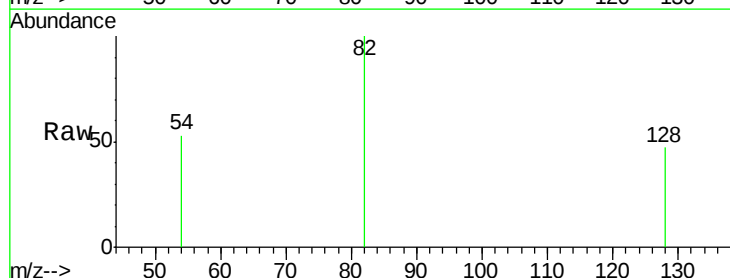


Abundance Ion 136.00 (135.70 to 136.70): BE0
Ion 137.00 (136.70 to 137.70): BE0
Ion 54.00 (53.70 to 54.70): BE0

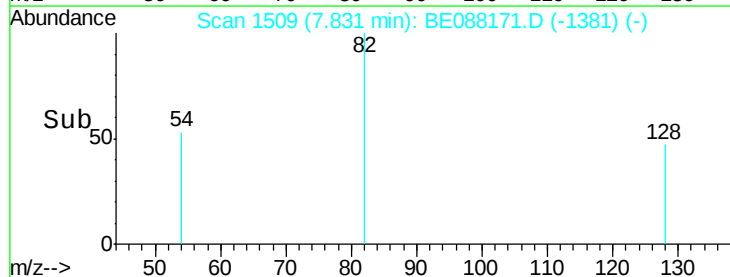
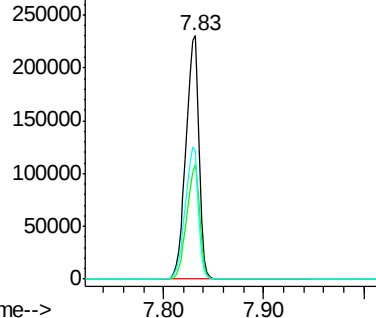


#4
Nitrobenzene-d5
Concen: 28.94 ng
RT: 7.83 min Scan# 1509
Delta R.T. 0.01 min
Lab File: BE088171.D
Acq: 22 Oct 2014 8:37

Tgt Ion: 82 Resp: 209909
Ion Ratio Lower Upper
82 100
128 47.0 37.1 55.7
54 52.9 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: 0.41 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL

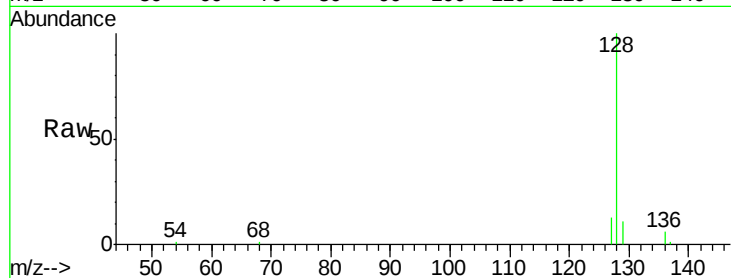
Tgt Ion:128 Resp: 8450

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

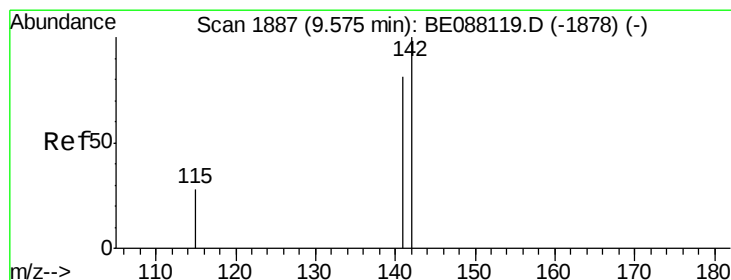
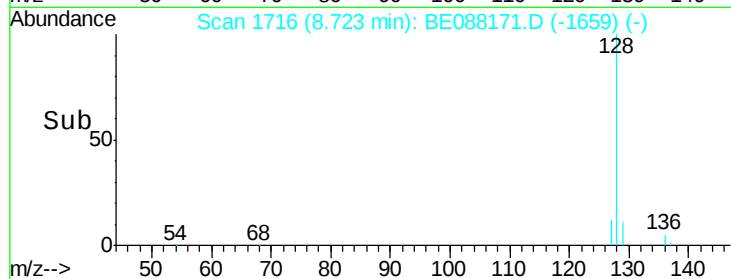
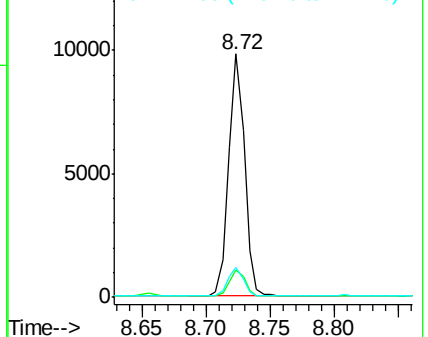
127 12.5 9.7 14.5



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: 0.17 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

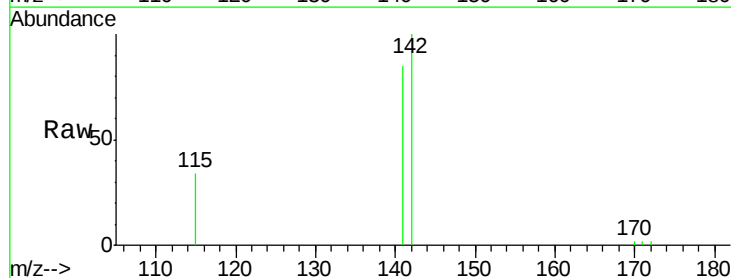
Tgt Ion:142 Resp: 2143

Ion Ratio Lower Upper

142 100

141 84.6 64.6 97.0

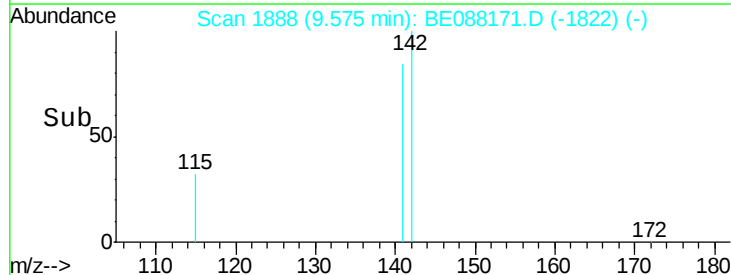
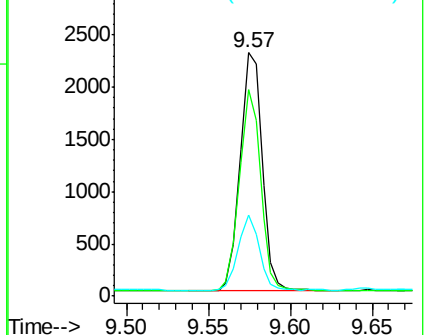
115 33.5 22.6 34.0



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





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL

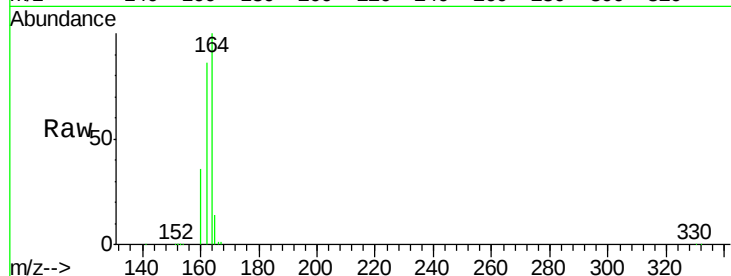
Tgt Ion:164 Resp: 51579

Ion Ratio Lower Upper

164 100

162 86.2 68.3 102.5

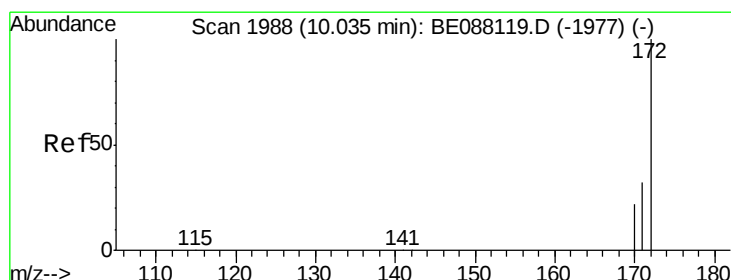
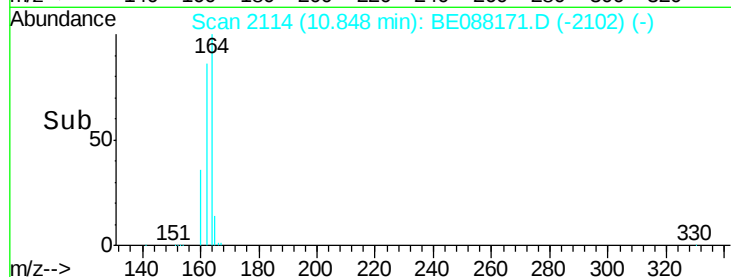
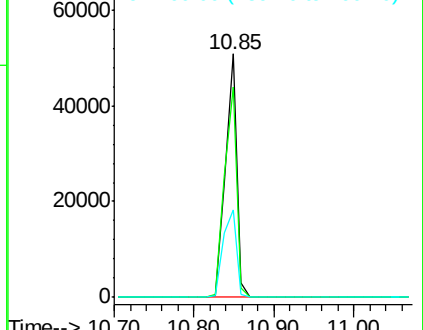
160 36.1 28.7 43.1



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



#8

2-Fluorobiphenyl

Concen: 20.57 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

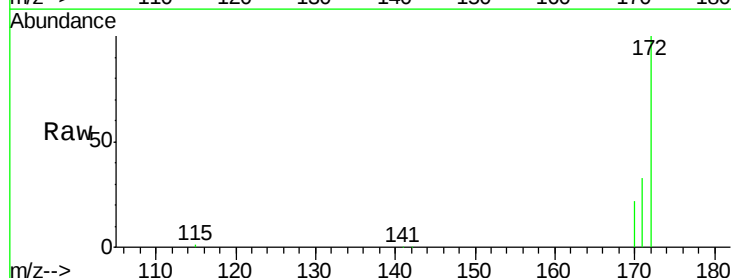
Tgt Ion:172 Resp: 293047

Ion Ratio Lower Upper

172 100

171 32.7 25.4 38.2

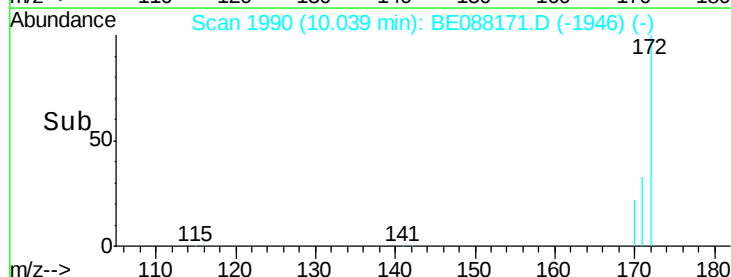
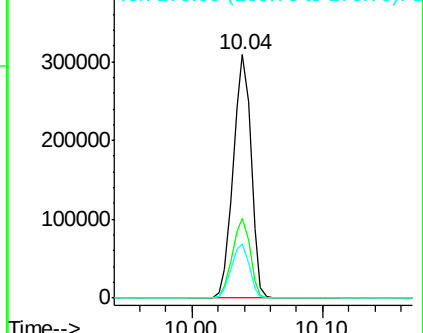
170 22.4 17.4 26.2

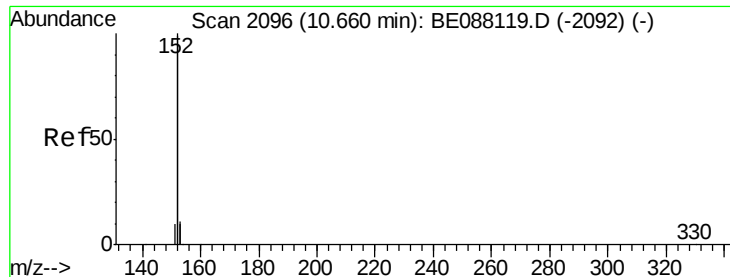


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.06 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL

Tgt Ion:152 Resp: 5056

Ion Ratio Lower Upper

152 100

151 4.8

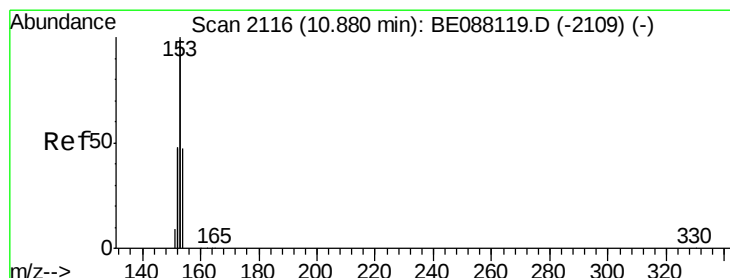
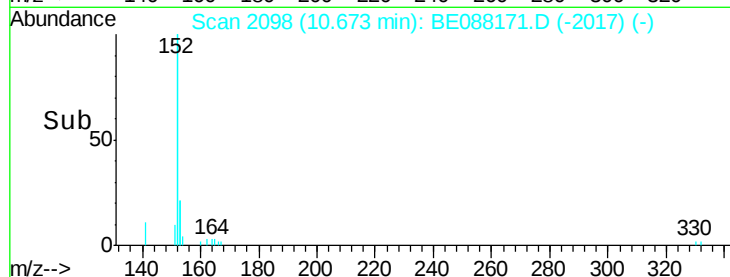
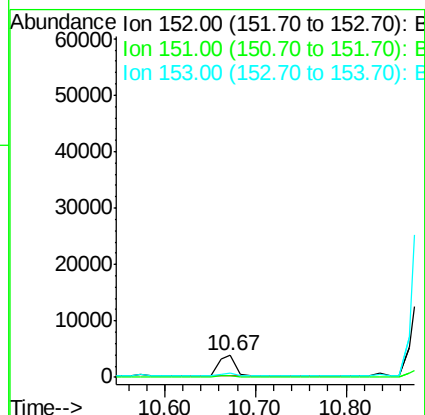
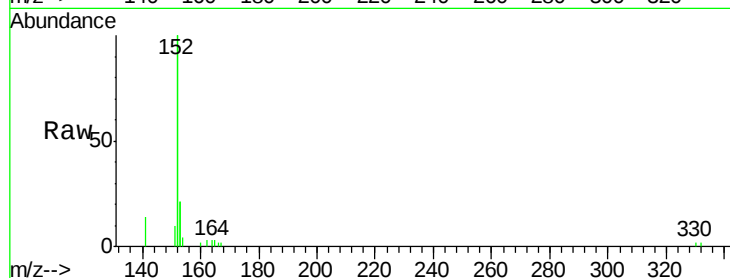
3.7

5.5

153 0.0

10.4

15.6#



#10

Acenaphthene

Concen: 0.75 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion:154 Resp: 9100

Ion Ratio Lower Upper

154 100

153 409.3

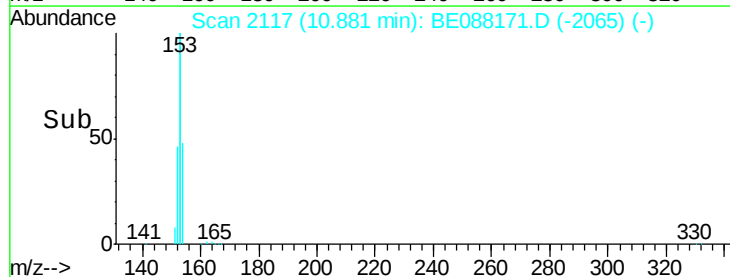
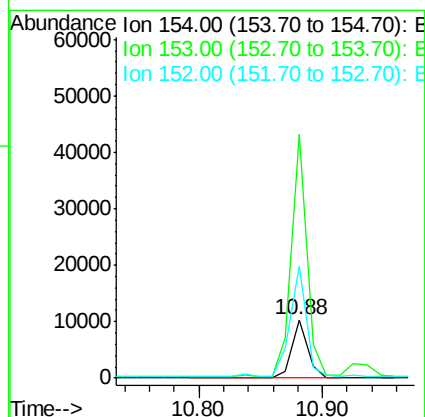
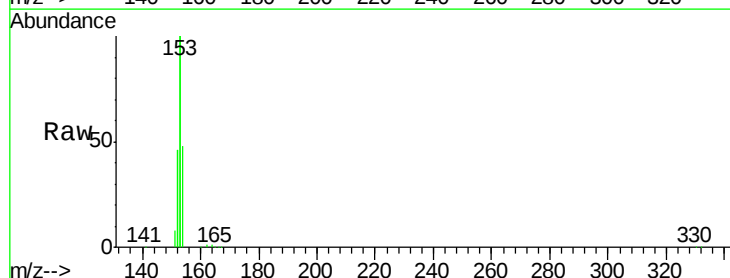
327.8

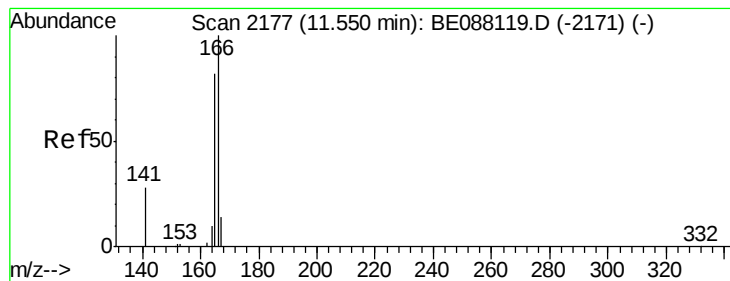
491.6

152 200.4

157.6

236.4





#11

Fluorene

Concen: 0.76 ng

RT: 11.54 min Scan# 2177

Delta R.T. -0.01 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

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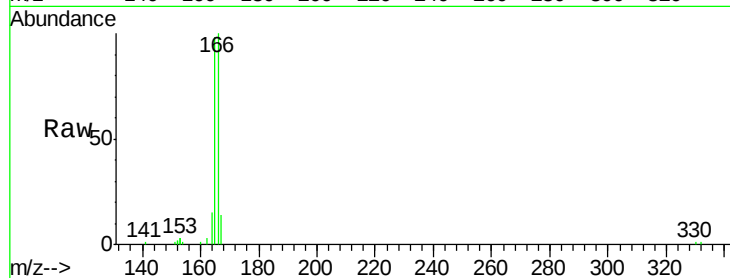
Tgt Ion:166 Resp: 9768

Ion Ratio Lower Upper

166 100

165 89.9 71.4 107.2

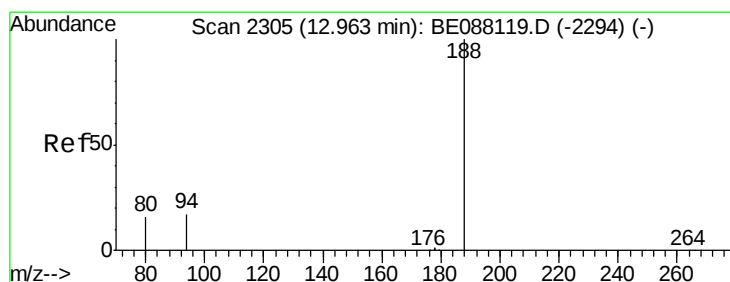
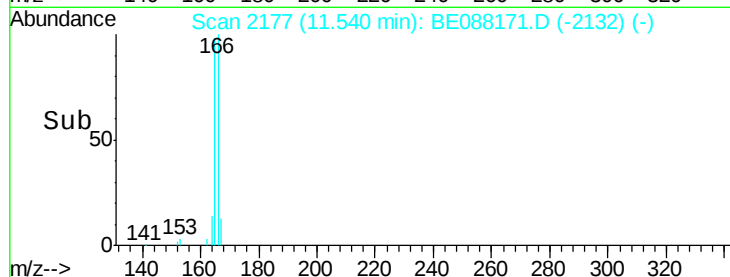
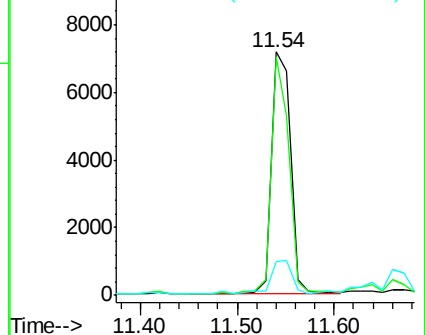
167 14.6 10.6 16.0



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: BE088171.D

Acq: 22 Oct 2014 8:37

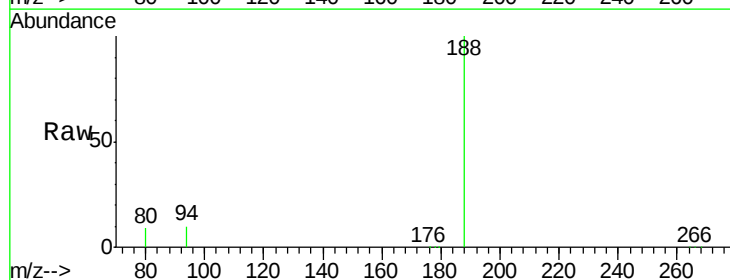
Tgt Ion:188 Resp: 77971

Ion Ratio Lower Upper

188 100

94 10.3 13.9 20.9#

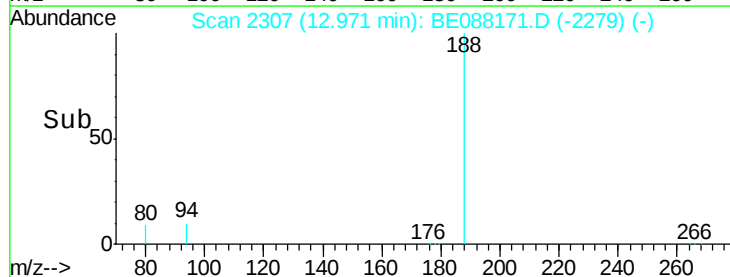
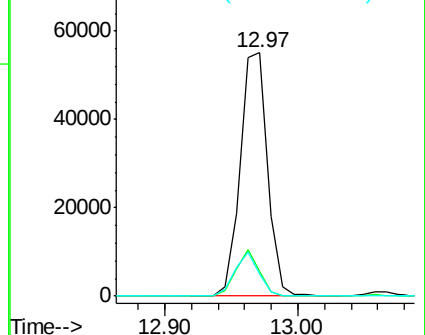
80 9.1 12.9 19.3#

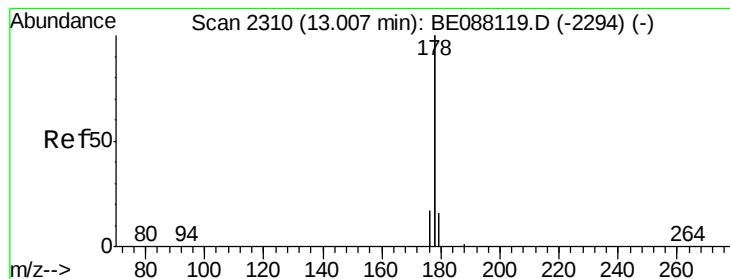


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 11.79 ng

RT: 13.01 min Scan# 2311

Delta R.T. -0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

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YS19-SB06-1014DL

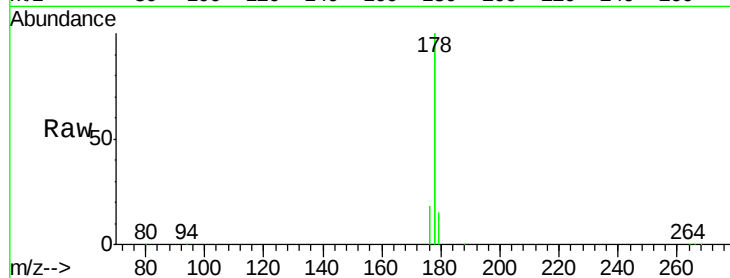
Tgt Ion:178 Resp: 660001

Ion Ratio Lower Upper

178 100

176 18.6 12.5 18.7

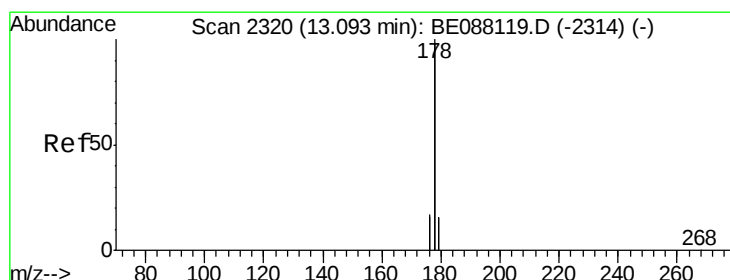
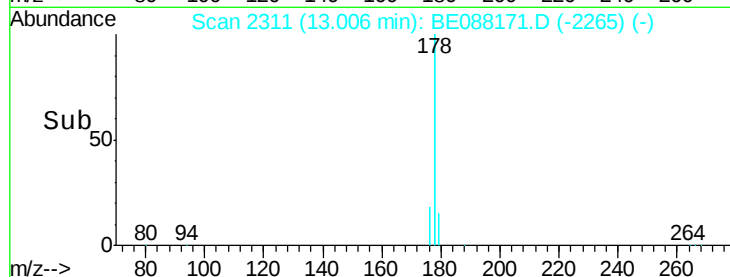
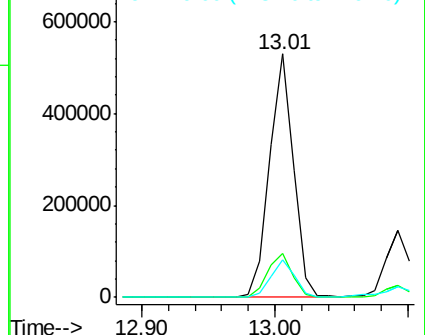
179 15.3 13.5 20.3



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: 10.85 ng

RT: 13.01 min Scan# 2311

Delta R.T. -0.09 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

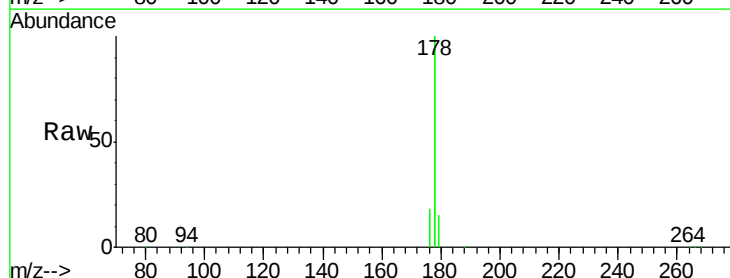
Tgt Ion:178 Resp: 660001

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

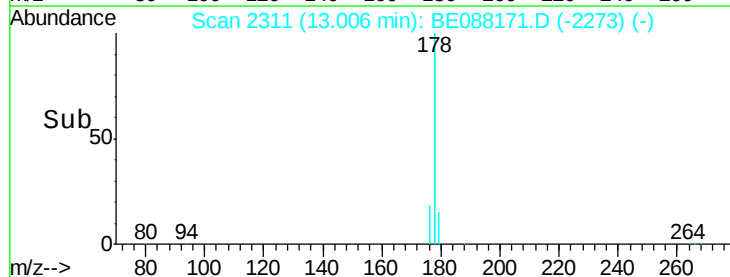
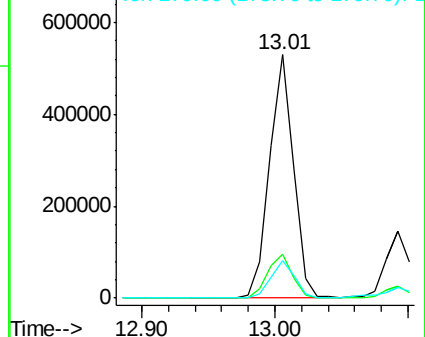
179 15.3 12.5 18.7

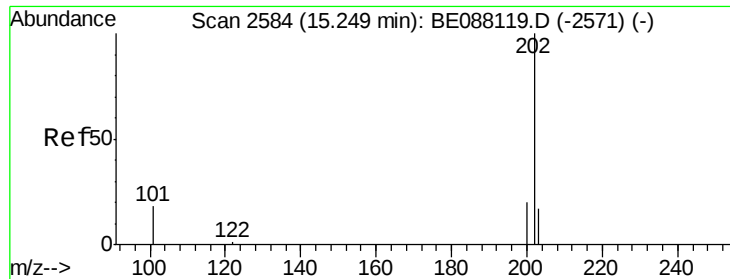


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

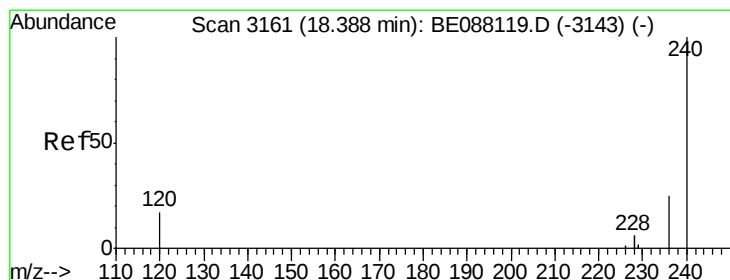
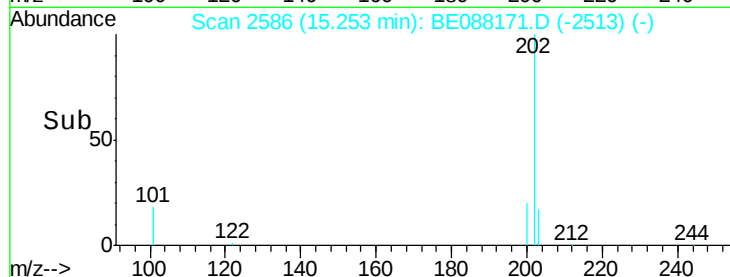
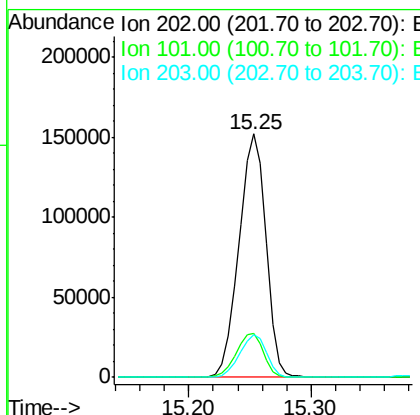
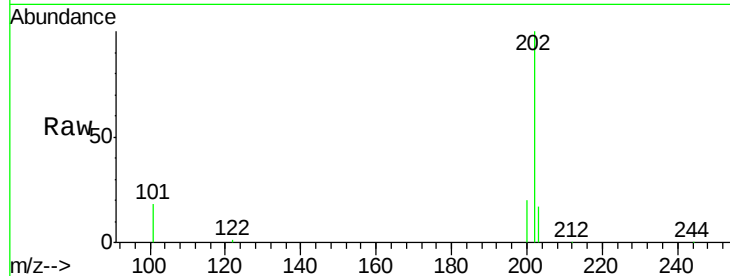




#15
 Fluoranthene
 Concen: 15.89 ng
 RT: 15.25 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: BE088171.D
 Acq: 22 Oct 2014 8:37

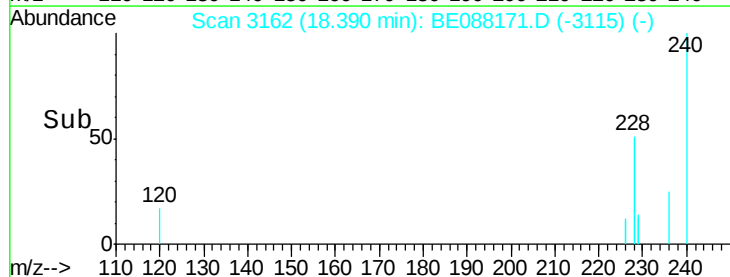
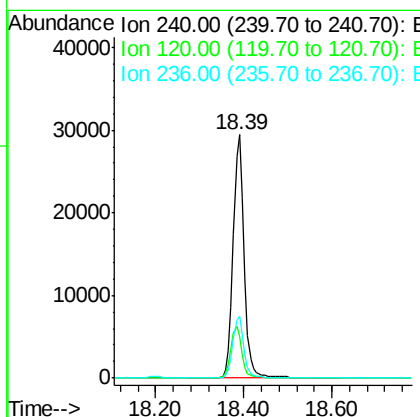
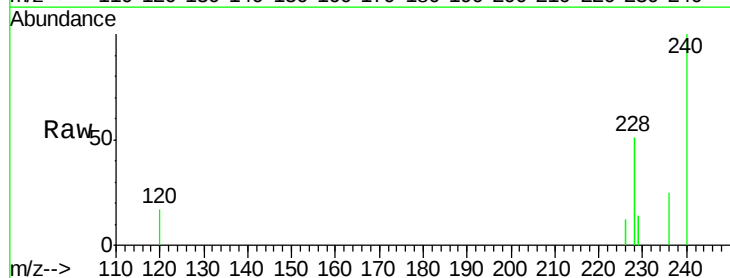
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB06-1014DL

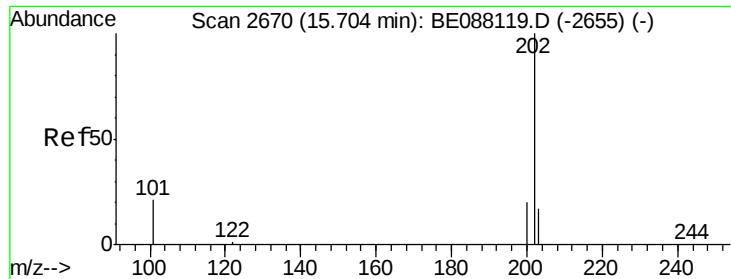
Tgt Ion	Ratio	Lower	Upper
202	100		
101	18.3	14.8	22.2
203	17.4	13.5	20.3



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3162
 Delta R.T. 0.00 min
 Lab File: BE088171.D
 Acq: 22 Oct 2014 8:37

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.8	13.9	20.9
236	25.2	19.9	29.9

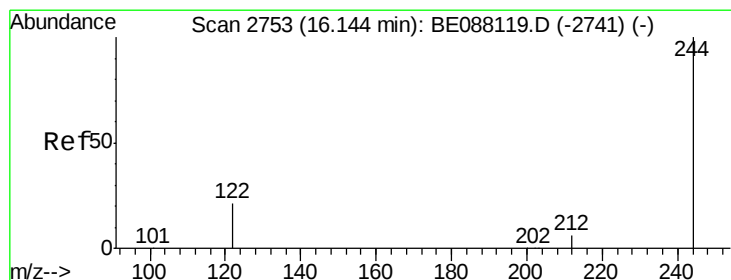
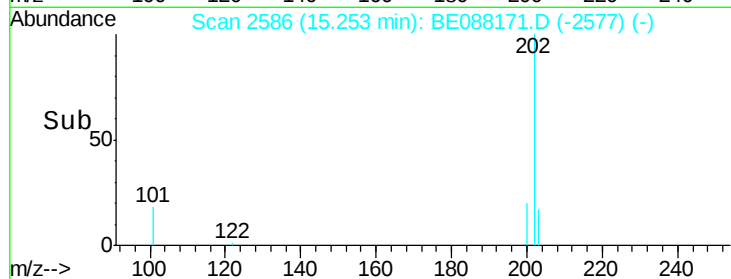
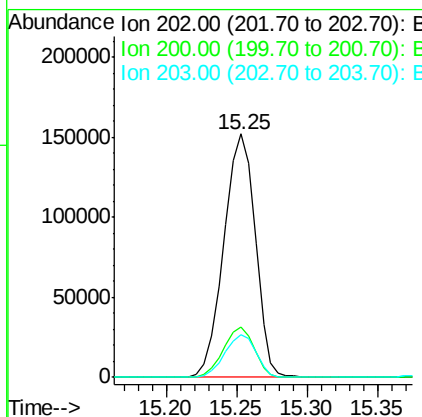
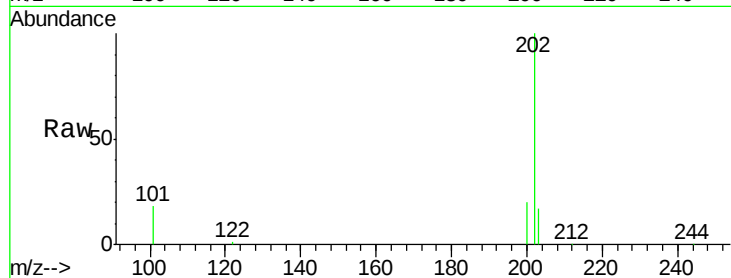




#17
 Pyrene
 Concen: 16.96 ng
 RT: 15.25 min Scan# 2586
 Delta R.T. -0.45 min
 Lab File: BE088171.D
 Acq: 22 Oct 2014 8:37

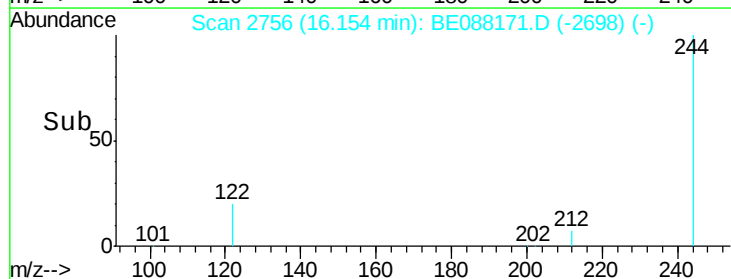
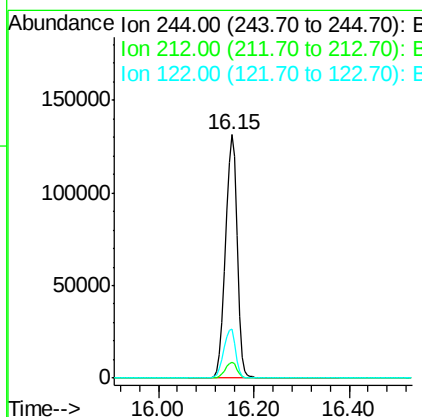
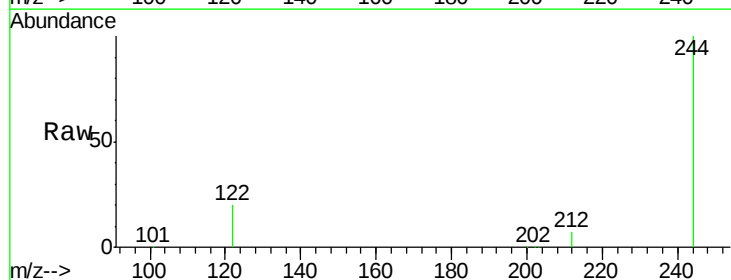
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB06-1014DL

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.4	13.9	20.9



#18
 Terphenyl-d14
 Concen: 27.07 ng
 RT: 16.15 min Scan# 2756
 Delta R.T. 0.01 min
 Lab File: BE088171.D
 Acq: 22 Oct 2014 8:37

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	20.0	17.5	26.3





#19

Benzo(a)anthracene

Concen: 7.55 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL

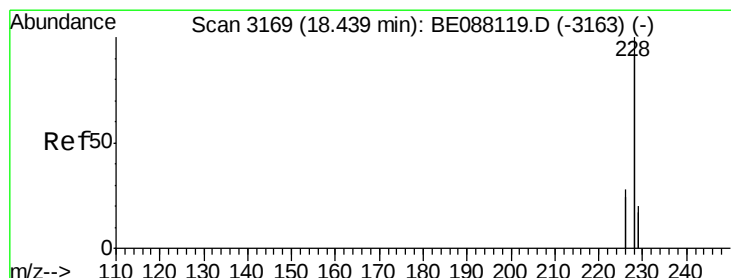
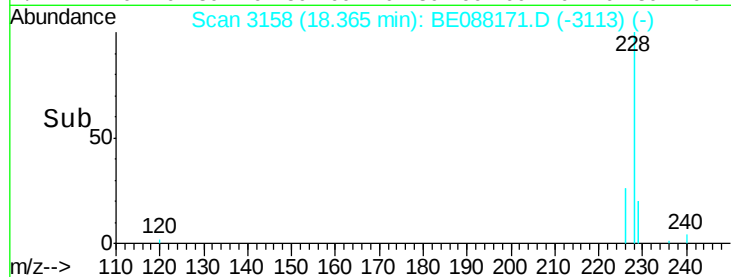
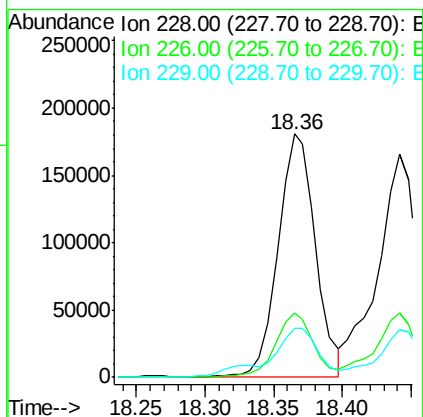
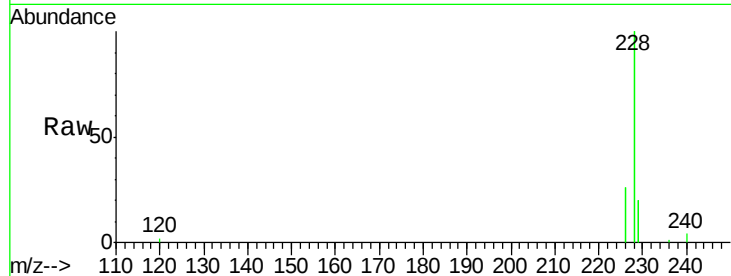
Tgt Ion:228 Resp: 340920

Ion Ratio Lower Upper

228 100

226 26.3 20.8 31.2

229 20.2 15.6 23.4



#20

Chrysene

Concen: 7.56 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

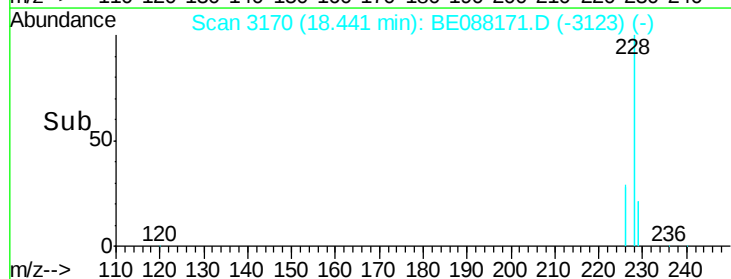
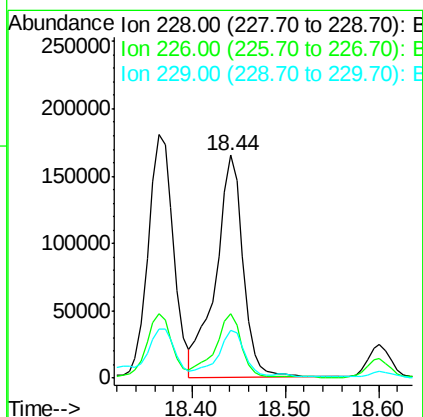
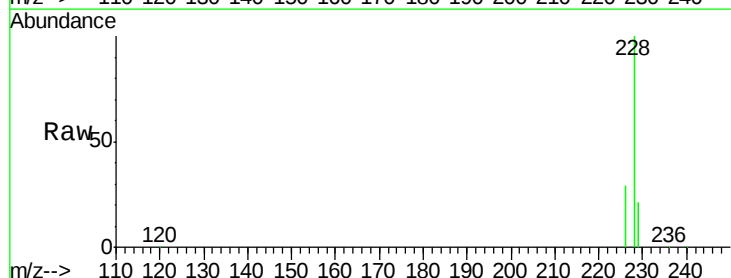
Tgt Ion:228 Resp: 334932

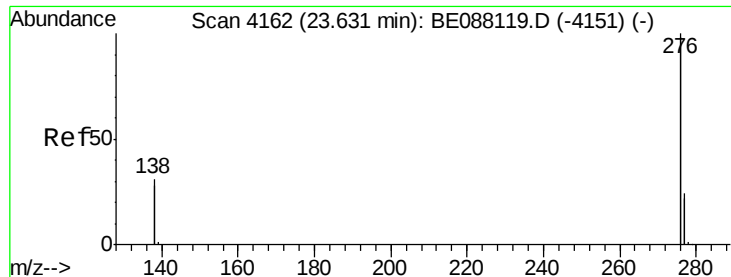
Ion Ratio Lower Upper

228 100

226 28.7 22.7 34.1

229 21.3 15.8 23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 3.60 ng

RT: 23.64 min Scan# 4165

Delta R.T. 0.01 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL

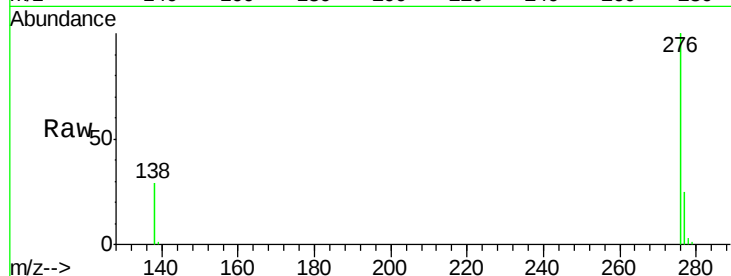
Tgt Ion:276 Resp: 177254

Ion Ratio Lower Upper

276 100

138 26.9 18.5 27.7

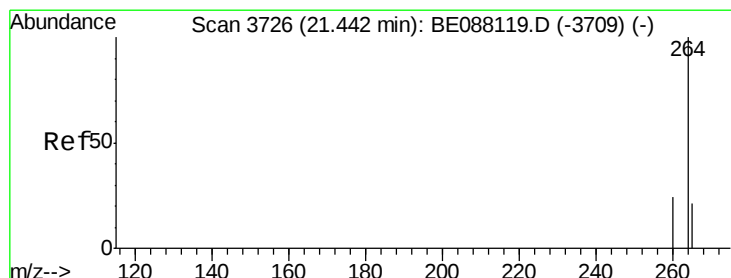
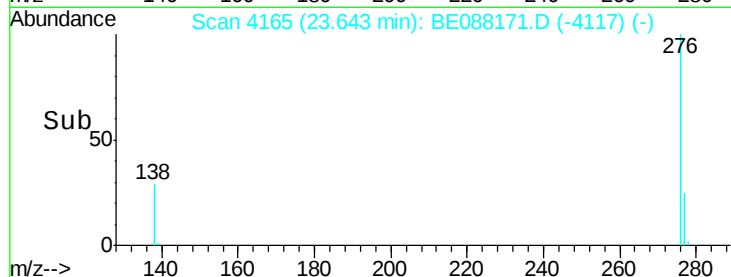
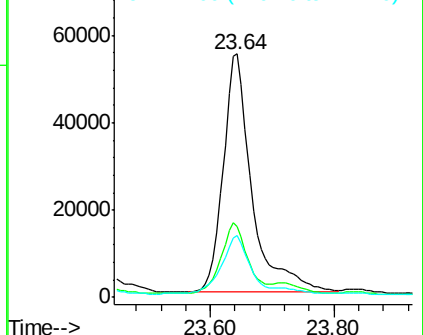
277 25.7 14.6 21.8#



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: 21.45 min Scan# 3728

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

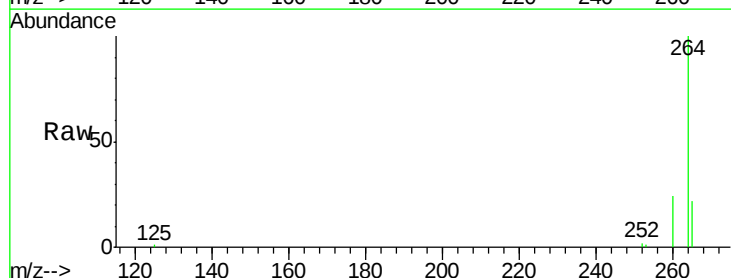
Tgt Ion:264 Resp: 45798

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

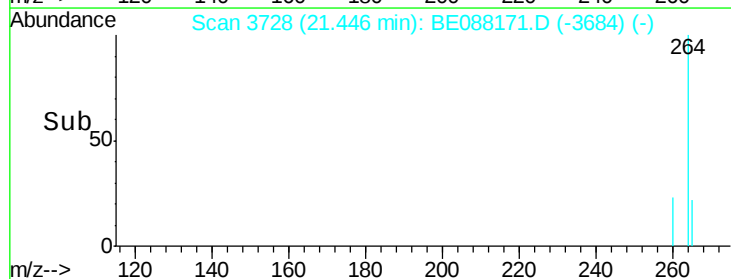
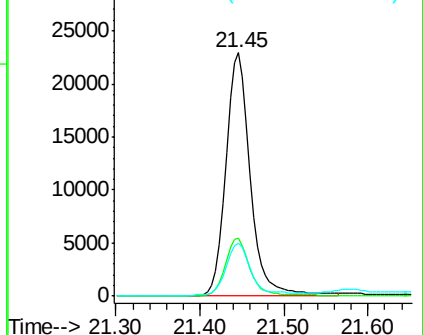
265 21.8 17.2 25.8

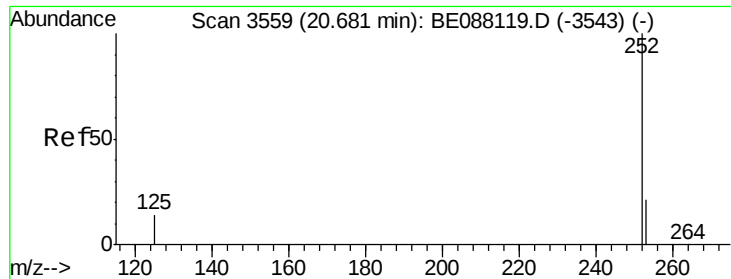


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 8.25 ng

RT: 20.69 min Scan# 3562

Delta R.T. 0.01 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL

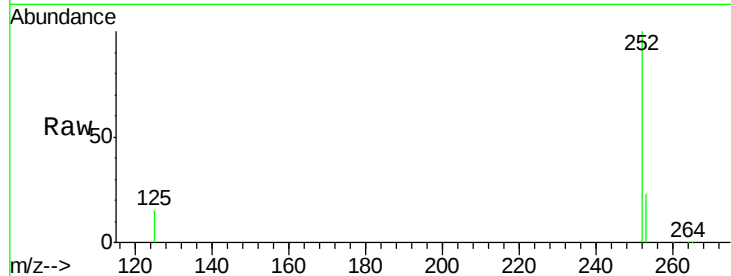
Tgt Ion: 252 Resp: 89968

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

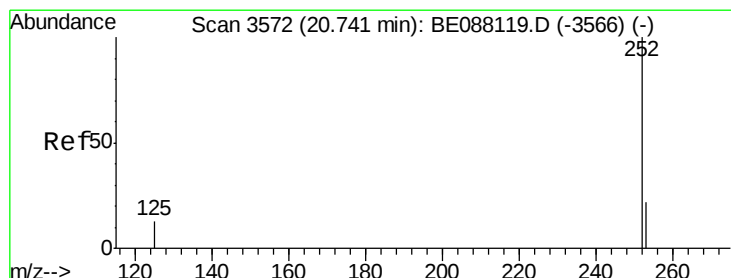
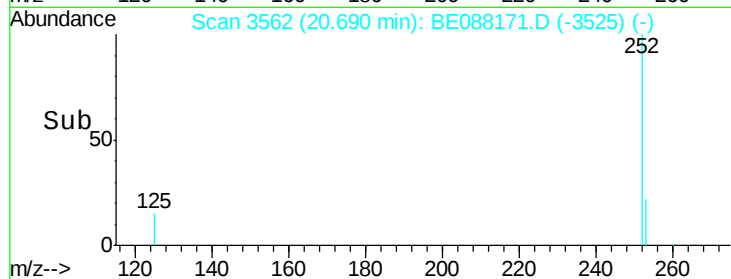
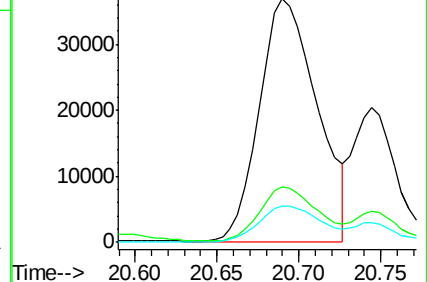
125 14.9 11.8 17.8



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: 3.31 ng

RT: 20.74 min Scan# 3574

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

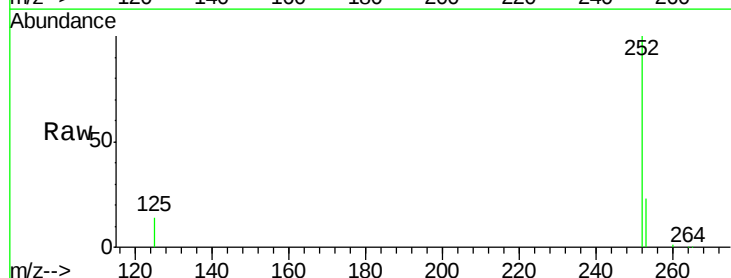
Tgt Ion: 252 Resp: 38585

Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

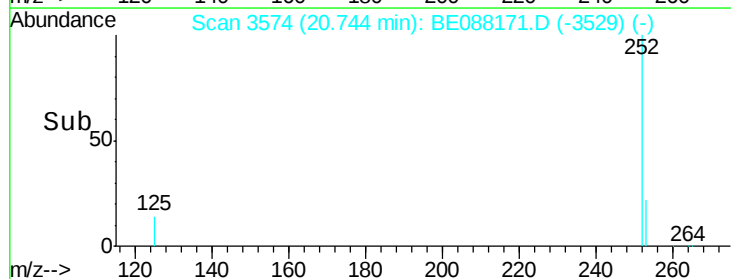
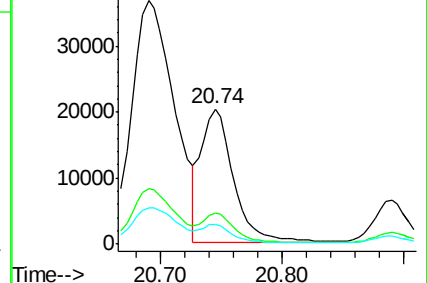
125 14.4 11.5 17.3



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: 6.60 ng

RT: 21.33 min Scan# 3702

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL

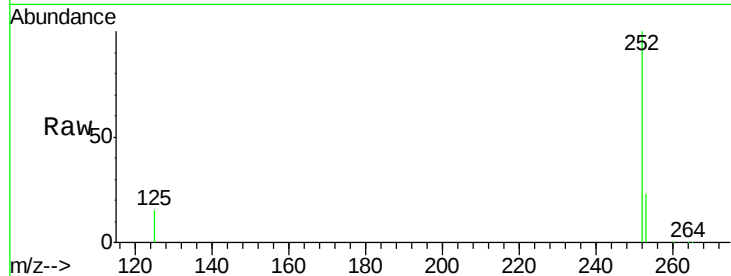
Tgt Ion: 252 Resp: 66229

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

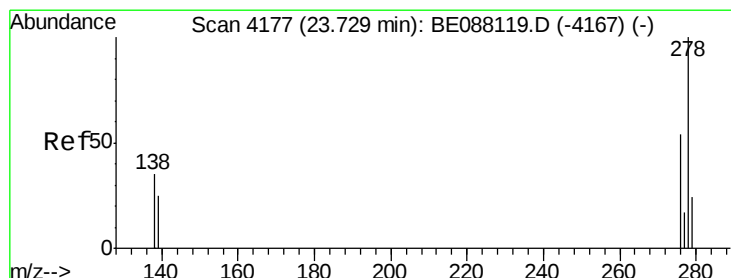
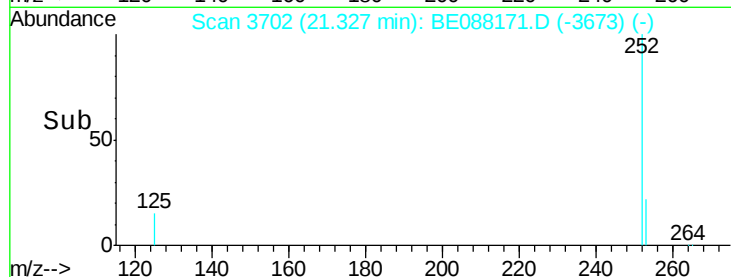
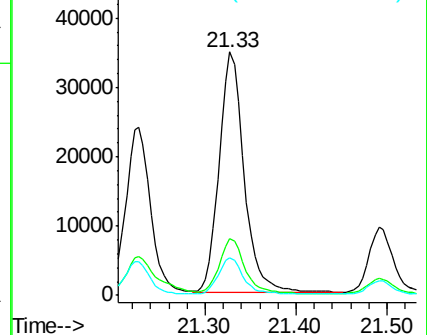
125 15.3 13.0 19.6



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: 0.86 ng

RT: 23.73 min Scan# 4178

Delta R.T. -0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

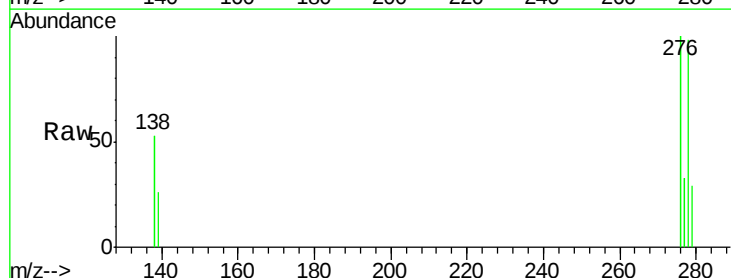
Tgt Ion: 278 Resp: 8446

Ion Ratio Lower Upper

278 100

139 26.5 20.9 31.3

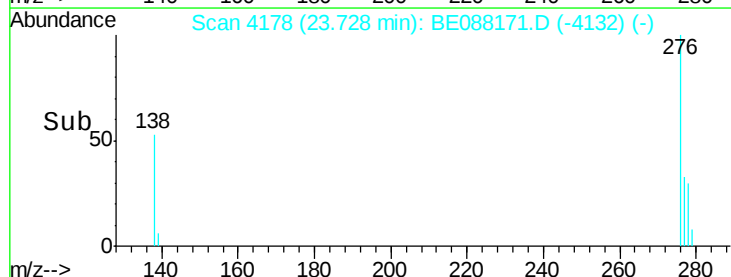
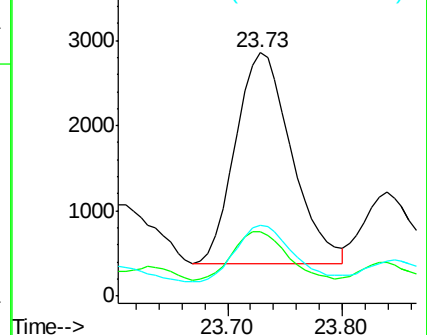
279 29.3 19.8 29.8

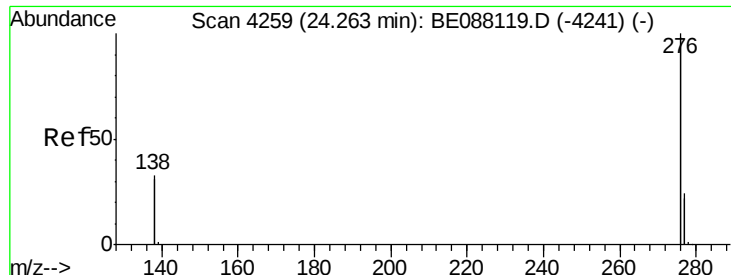


Abundance Ion 278.00 (277.70 to 278.70): E

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: 4.10 ng

RT: 24.28 min Scan# 4262

Delta R.T. 0.01 min

Lab File: BE088171.D

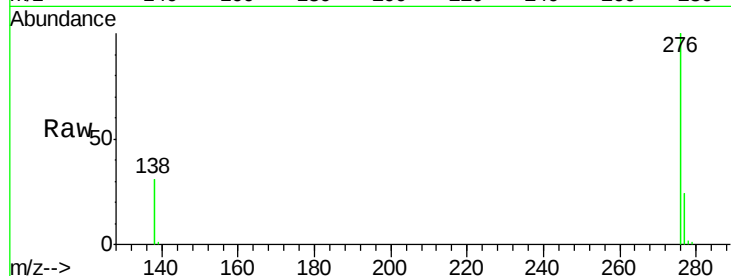
Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL



Tgt Ion: 276 Resp: 178507

Ion Ratio Lower Upper

276 100

277 24.3 19.2 28.8

138 31.4 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

