

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088239.D
 Acq On : 25 Oct 2014 8:55
 Operator : TP/JJ
 Sample : F4368-19
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB42-1014

Quant Time: Oct 27 13:48:41 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	26667	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	108877	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	57786	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	110788	5.00	ng	0.00
16) Chrysene-d12	18.35	240	53851	5.00	ng	0.00
22) Perylene-d12	21.40	264	44458	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	399453	48.55	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	517522	32.11	ng	0.00
18) Terphenyl-d14	16.13	244	440084	49.90	ng	0.02

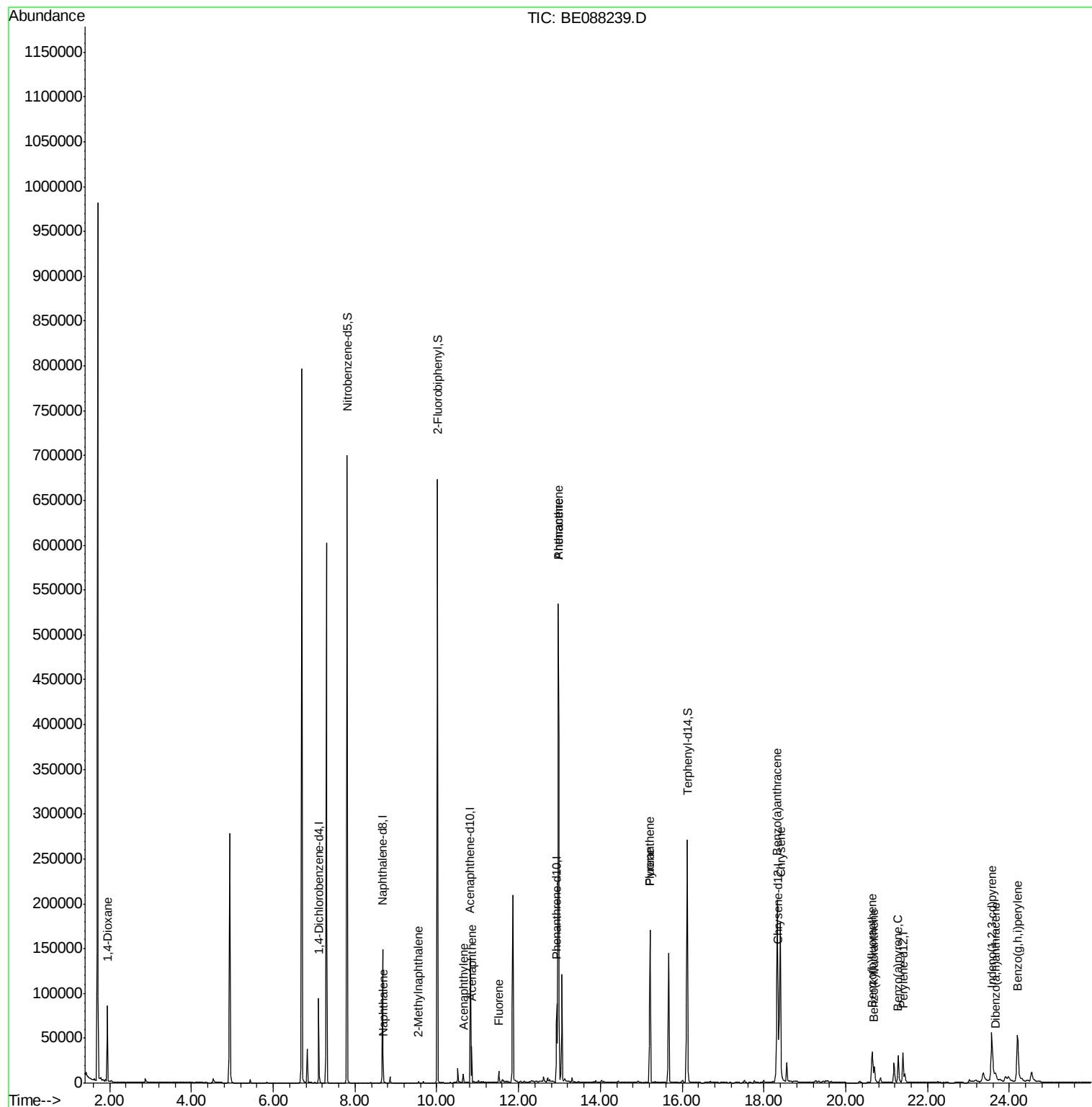
Target Compounds				Qvalue		
2) 1,4-Dioxane	1.95	88	2794	0.75	ng	# 1
5) Naphthalene	8.70	128	1252	0.06	ng	# 92
6) 2-Methylnaphthalene	9.55	142	745	0.06	ng	95
9) Acenaphthylene	10.65	152	10158	0.12	ng	98
10) Acenaphthene	10.86	154	5308	0.39	ng	97
11) Fluorene	11.52	166	6202	0.44	ng	98
13) Phenanthrene	12.97	178	619744	5.80	ng	97
14) Anthracene	12.97	178	619744	7.86	ng	99
15) Fluoranthene	15.22	202	174294	10.75	ng	99
17) Pyrene	15.22	202	172421	11.67	ng	100
19) Benzo(a)anthracene	18.32	228	251562	5.93	ng	100
20) Chrysene	18.40	228	241298	5.01	ng	96
21) Indeno(1,2,3-cd)pyrene	23.57	276	116013	2.45	ng	# 74
23) Benzo(b)fluoranthene	20.64	252	61333	6.50	ng	99
24) Benzo(k)fluoranthene	20.70	252	26298	2.29	ng	98
25) Benzo(a)pyrene	21.28	252	41500	4.49	ng	98
26) Dibenzo(a,h)anthracene	23.67	278	5804	0.83	ng	95
27) Benzo(g,h,i)perylene	24.20	276	109414	3.07	ng	98

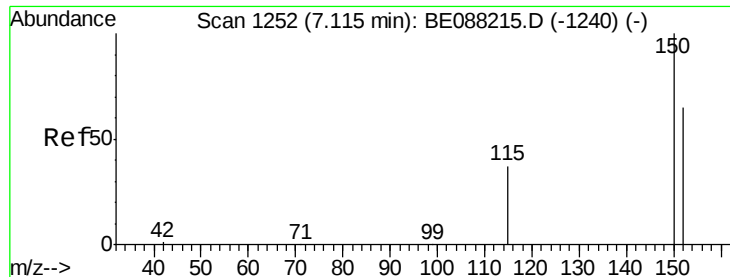
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

YS19-SB42-1014

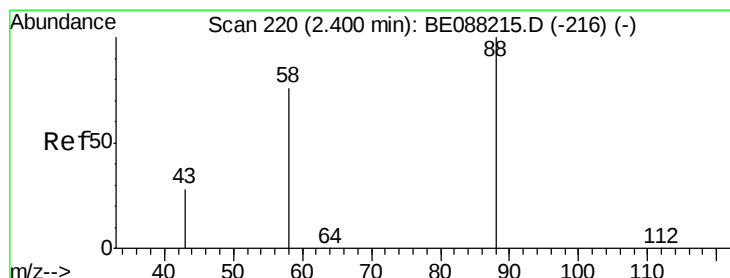
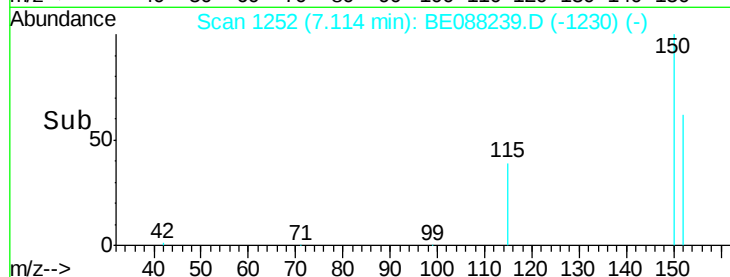
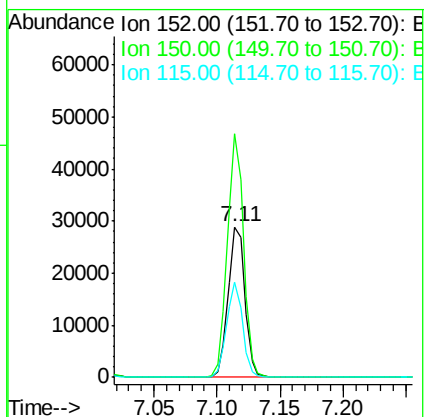
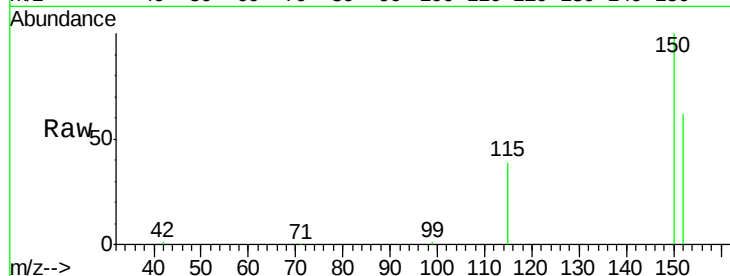
Tgt Ion:152 Resp: 26667

Ion Ratio Lower Upper

152 100

150 161.8 123.2 184.8

115 63.1 45.3 67.9



#2

1,4-Dioxane

Concen: 0.75 ng

RT: 1.95 min Scan# 121

Delta R.T. -0.45 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

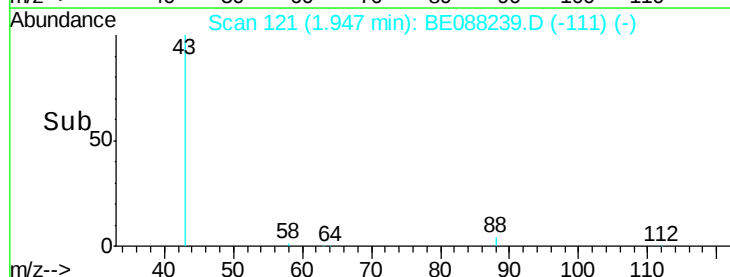
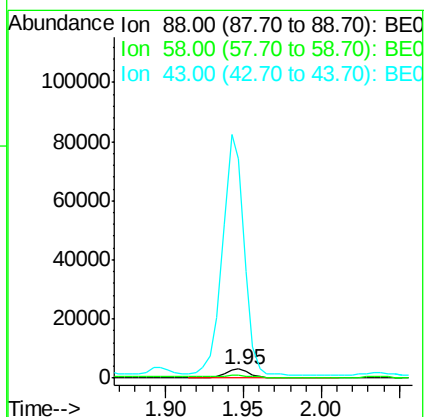
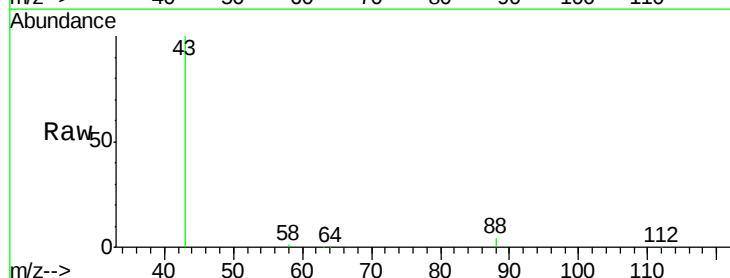
Tgt Ion: 88 Resp: 2794

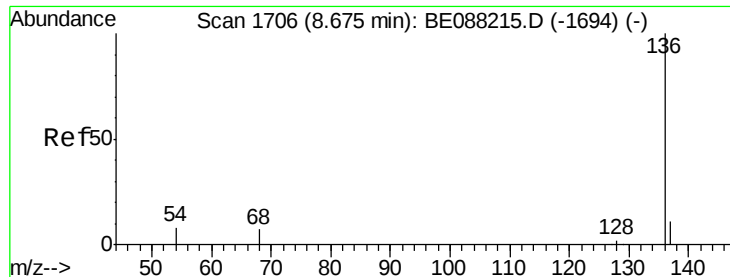
Ion Ratio Lower Upper

88 100

58 26.3 59.0 88.4#

43 2775.1 21.9 32.9#

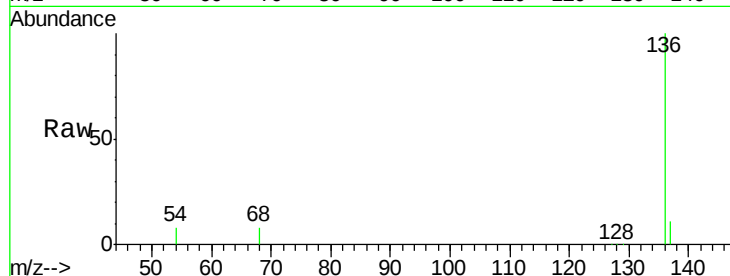




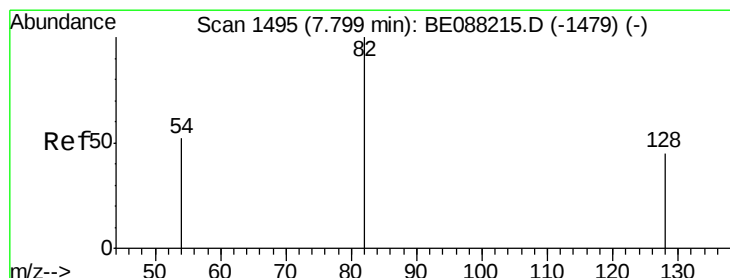
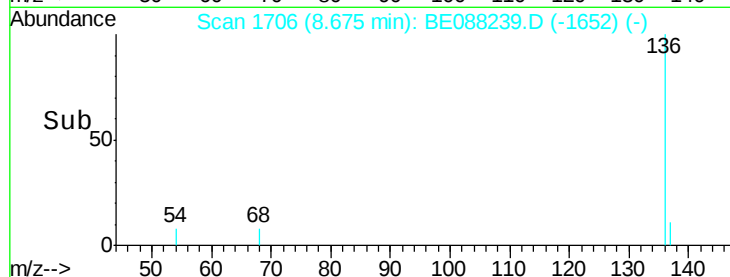
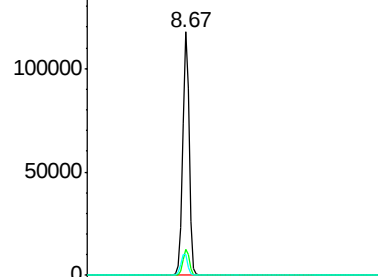
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.67 min Scan# 1706
Delta R.T. -0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Instrument :
BNA_E
ClientSampleId :
YS19-SB42-1014

Tgt Ion: 136 Resp: 108877
Ion Ratio Lower Upper
136 100
137 10.7 8.7 13.1
54 8.3 6.1 9.1

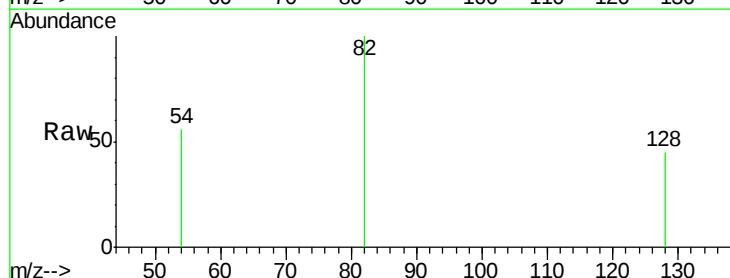


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

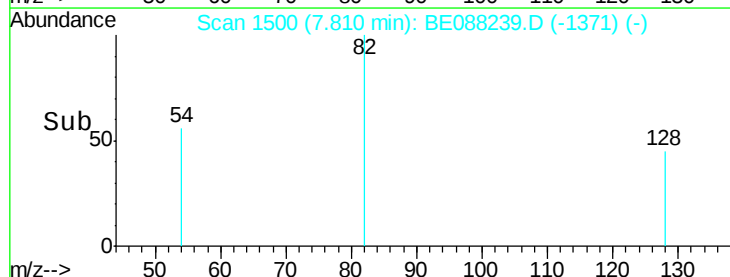
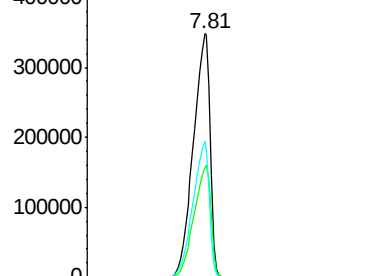


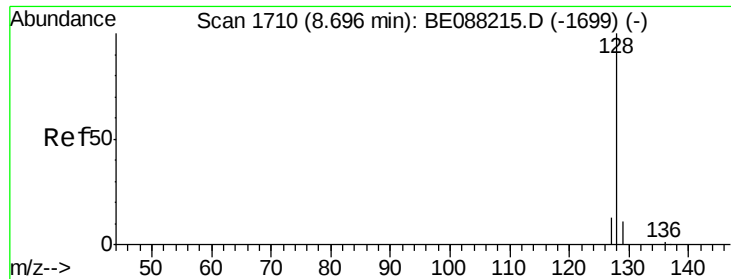
#4
Nitrobenzene-d5
Concen: 48.55 ng
RT: 7.81 min Scan# 1500
Delta R.T. 0.01 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Tgt Ion: 82 Resp: 399453
Ion Ratio Lower Upper
82 100
128 45.1 36.2 54.2
54 55.9 41.8 62.8



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0

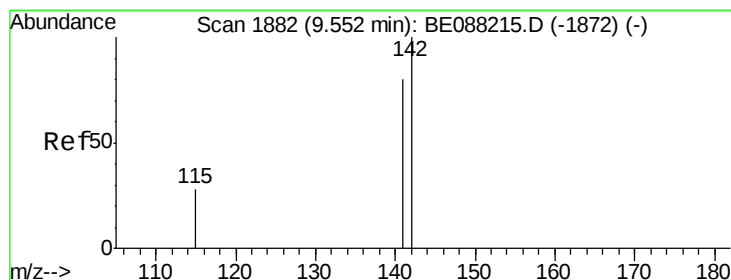
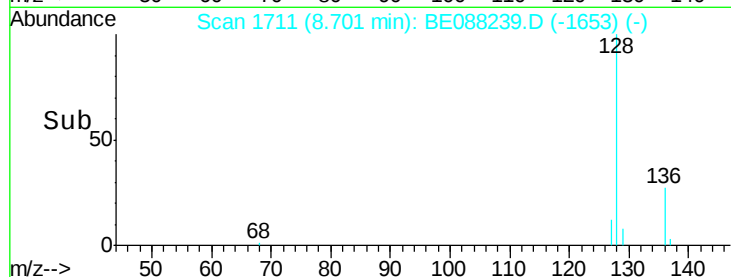
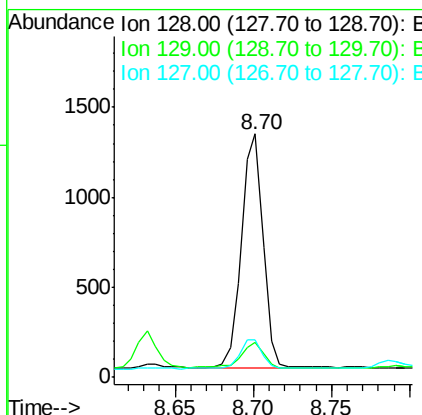
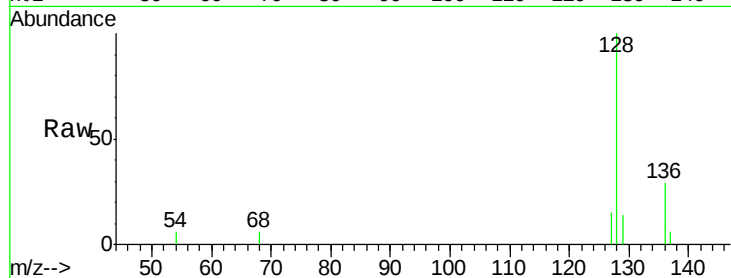




#5
Naphthalene
Concen: 0.06 ng
RT: 8.70 min Scan# 1711
Delta R.T. 0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

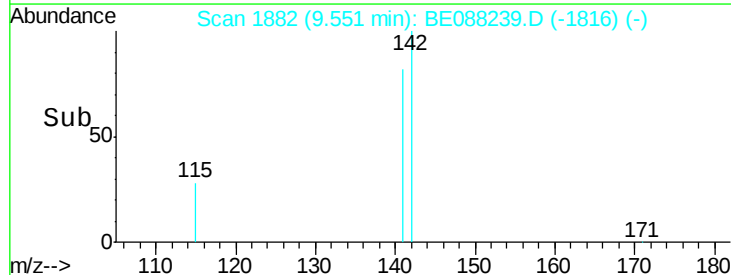
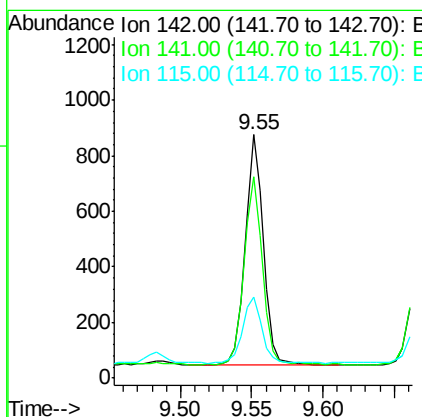
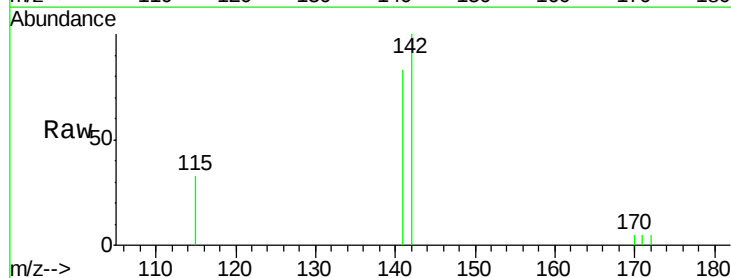
Instrument :
BNA_E
ClientSampleId :
YS19-SB42-1014

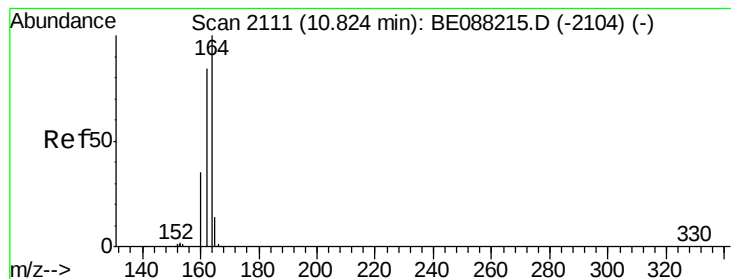
Tgt Ion:128 Resp: 1252
Ion Ratio Lower Upper
128 100
129 14.4 8.6 12.8#
127 15.4 10.4 15.6



#6
2-Methylnaphthalene
Concen: 0.06 ng
RT: 9.55 min Scan# 1882
Delta R.T. -0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Tgt Ion:142 Resp: 745
Ion Ratio Lower Upper
142 100
141 82.8 63.7 95.5
115 33.2 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.82 min Scan# 2111

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

YS19-SB42-1014

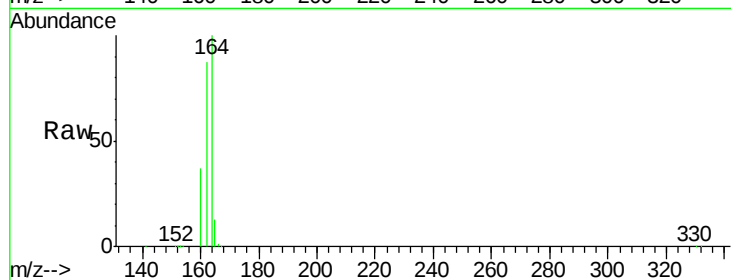
Tgt Ion:164 Resp: 57786

Ion Ratio Lower Upper

164 100

162 86.7 67.4 101.0

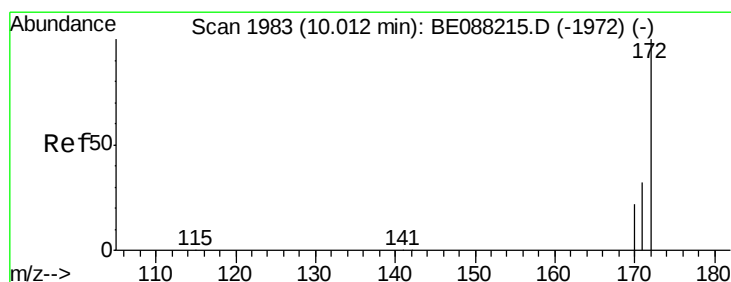
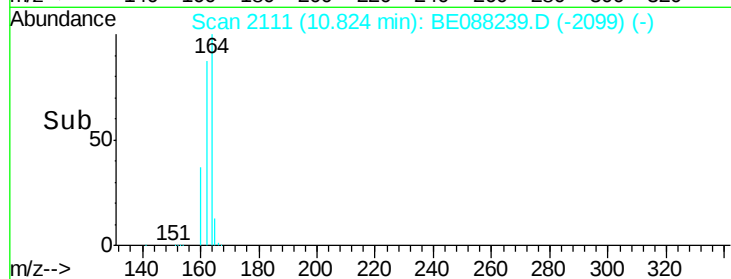
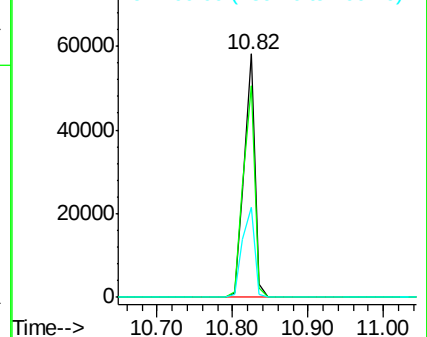
160 36.8 27.7 41.5



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: 32.11 ng

RT: 10.02 min Scan# 1985

Delta R.T. 0.01 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

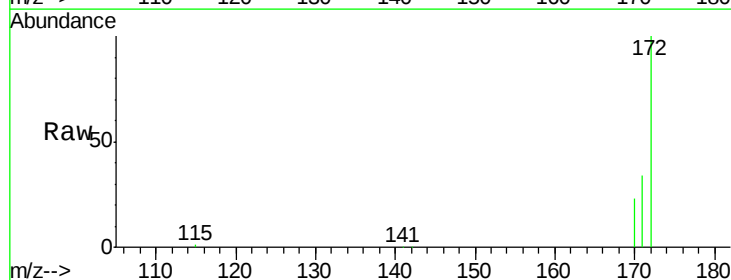
Tgt Ion:172 Resp: 517522

Ion Ratio Lower Upper

172 100

171 33.8 25.8 38.6

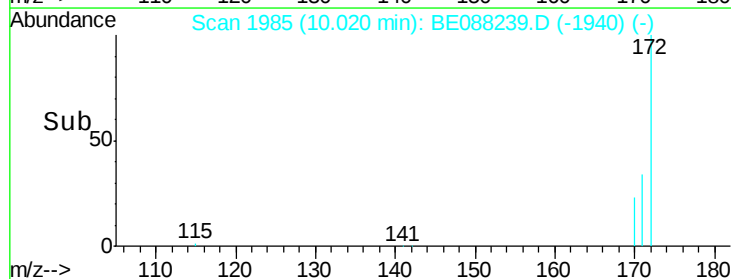
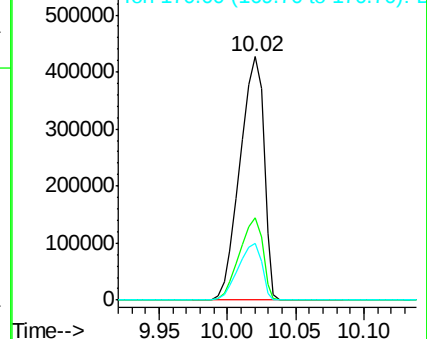
170 23.4 17.4 26.0

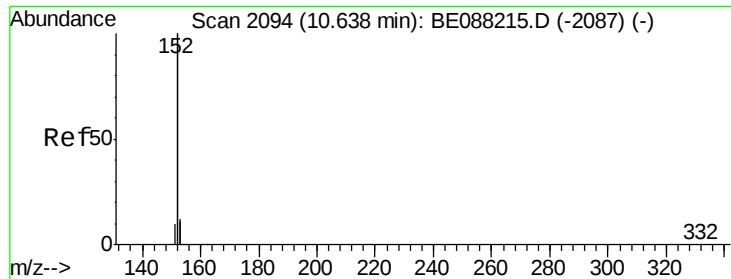


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.12 ng

RT: 10.65 min Scan# 2095

Delta R.T. 0.01 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

YS19-SB42-1014

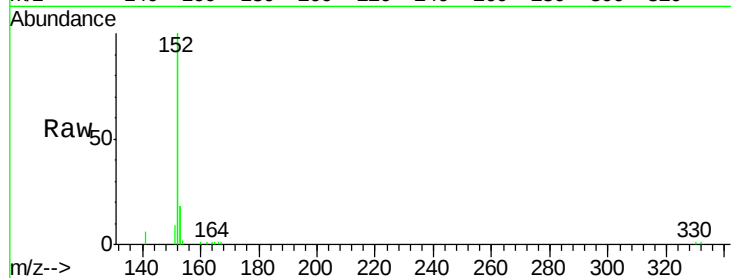
Tgt Ion:152 Resp: 10158

Ion Ratio Lower Upper

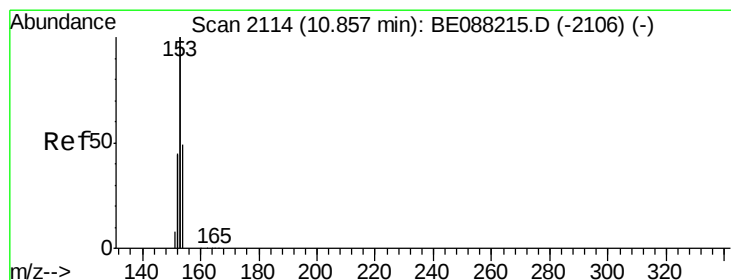
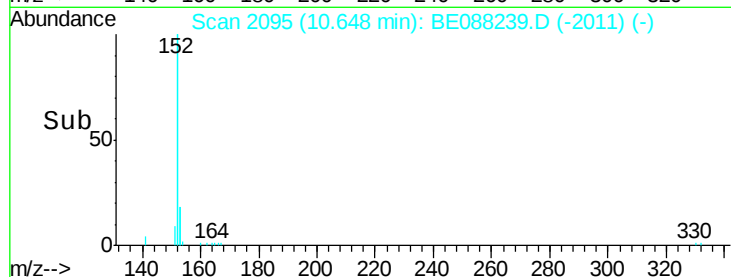
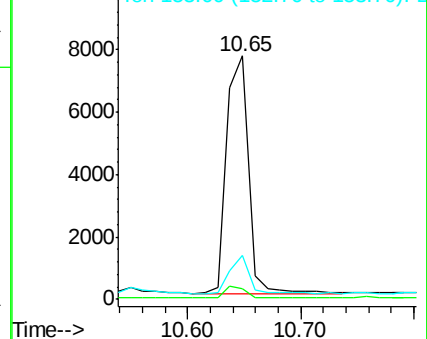
152 100

151 4.8 3.7 5.5

153 13.9 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.39 ng

RT: 10.86 min Scan# 2114

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

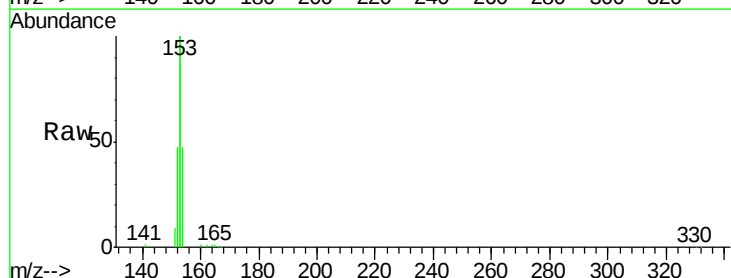
Tgt Ion:154 Resp: 5308

Ion Ratio Lower Upper

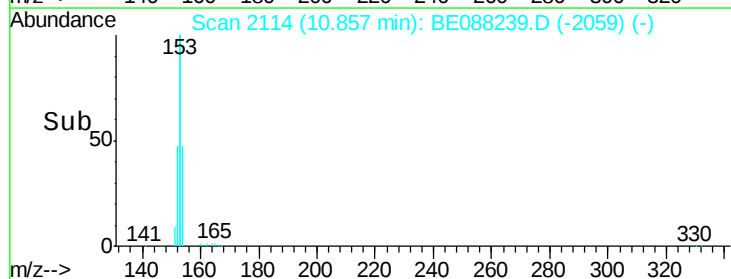
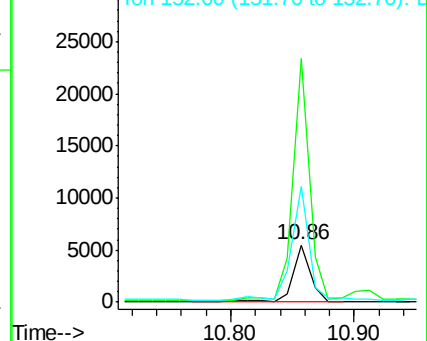
154 100

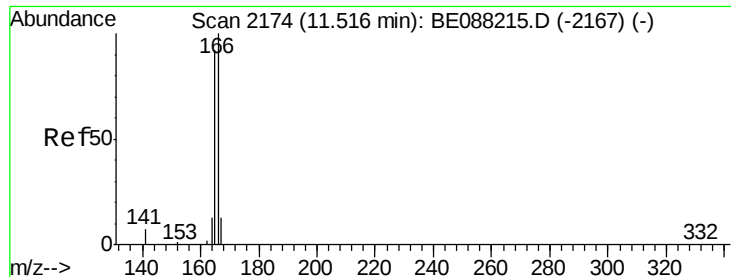
153 399.4 326.0 489.0

152 198.2 155.6 233.4



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: 0.44 ng

RT: 11.52 min Scan# 2174

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

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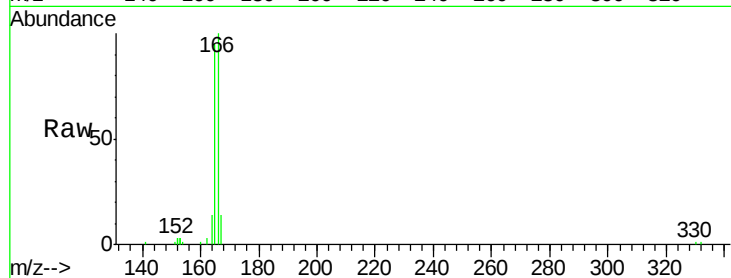
Tgt Ion:166 Resp: 6202

Ion Ratio Lower Upper

166 100

165 91.8 71.8 107.6

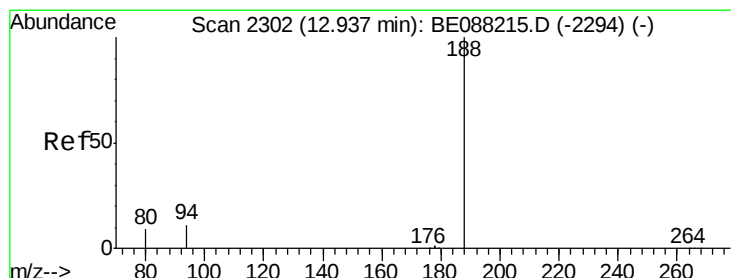
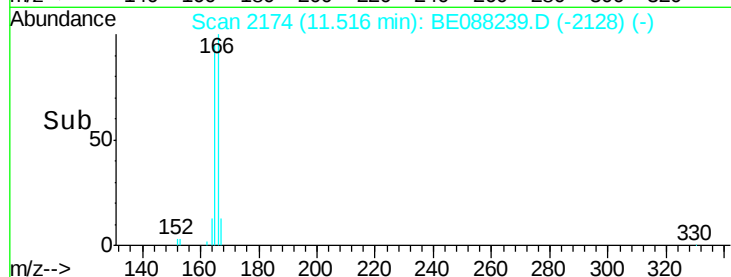
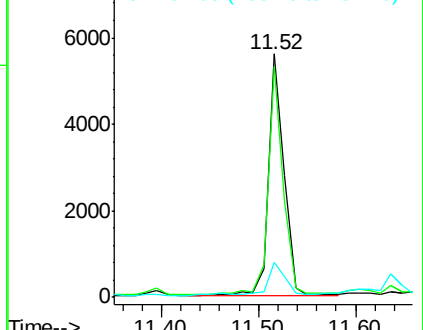
167 14.6 10.7 16.1



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: 12.94 min Scan# 2302

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

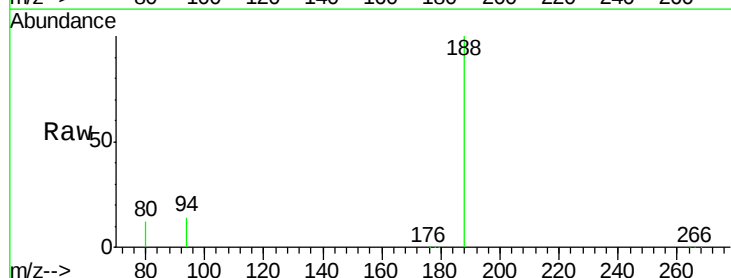
Tgt Ion:188 Resp: 110788

Ion Ratio Lower Upper

188 100

94 13.6 8.5 12.7#

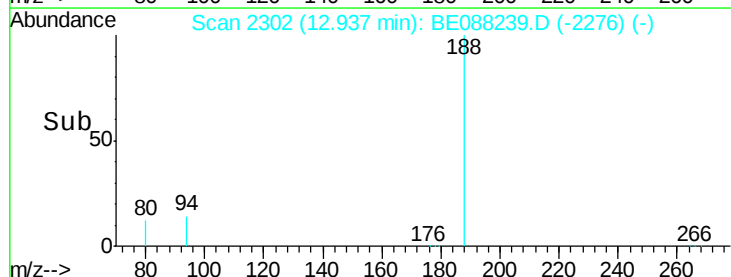
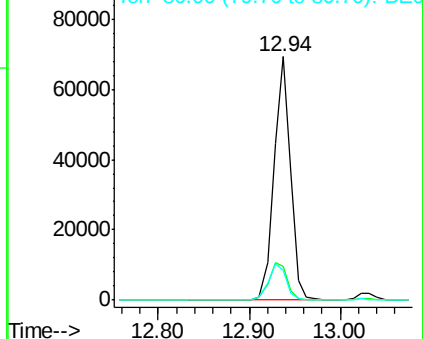
80 12.3 7.4 11.0#

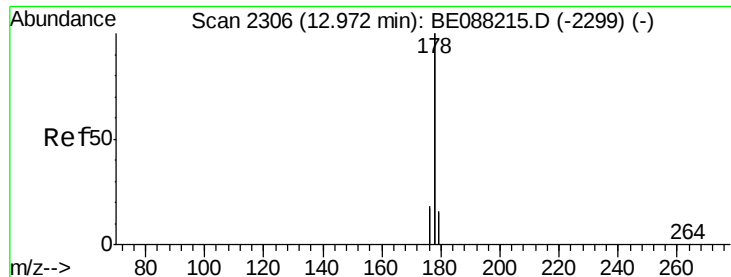


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 5.80 ng

RT: 12.97 min Scan# 2306

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

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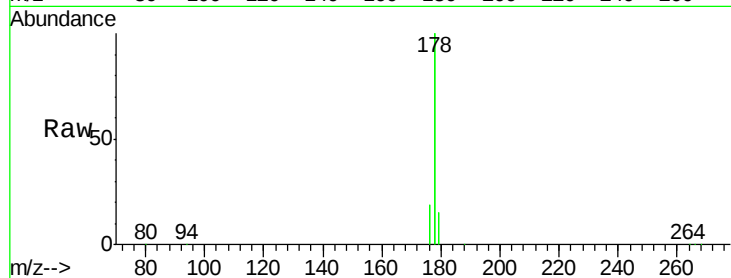
Tgt Ion:178 Resp: 619744

Ion Ratio Lower Upper

178 100

176 18.7 14.0 21.0

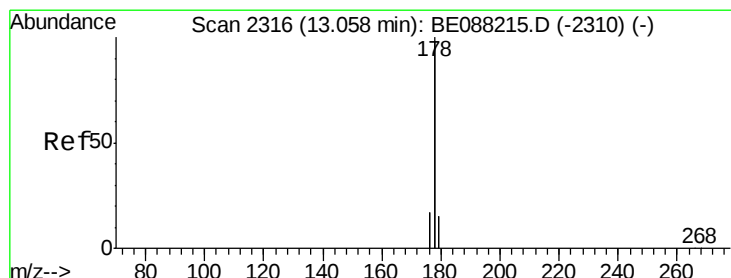
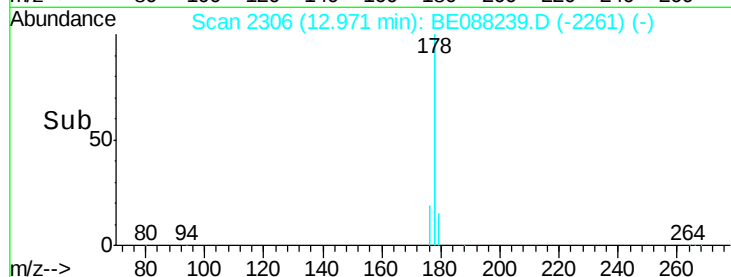
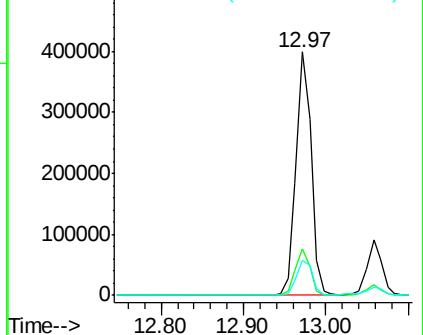
179 15.8 11.8 17.6



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: 7.86 ng

RT: 12.97 min Scan# 2306

Delta R.T. -0.09 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

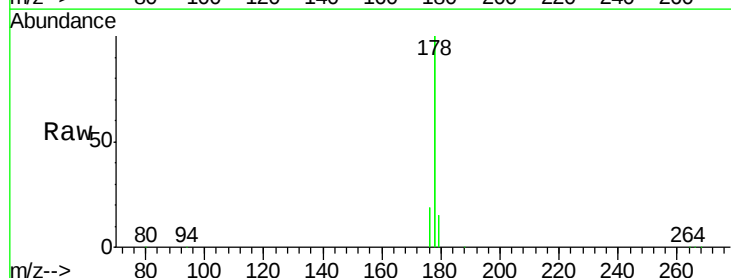
Tgt Ion:178 Resp: 619744

Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

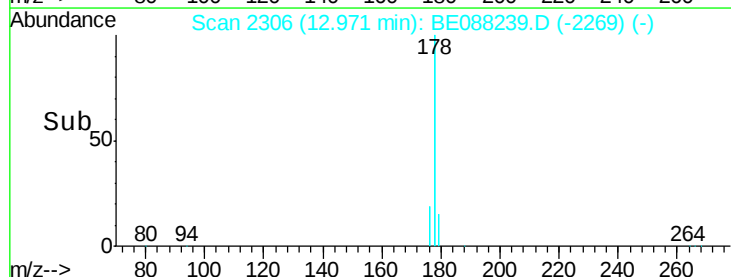
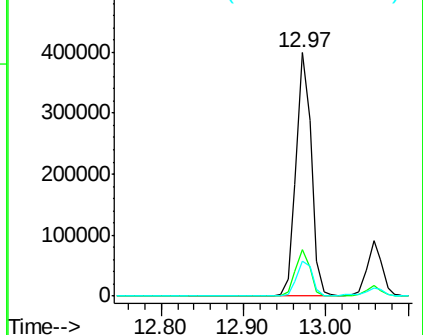
179 15.8 12.3 18.5

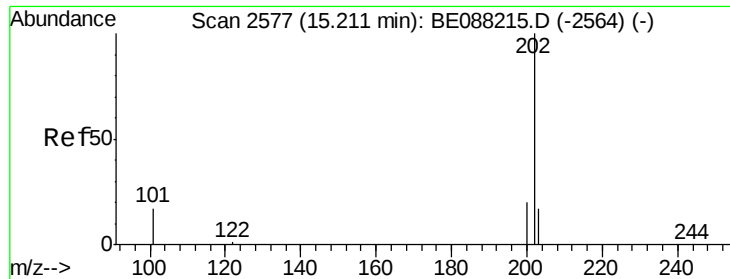


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

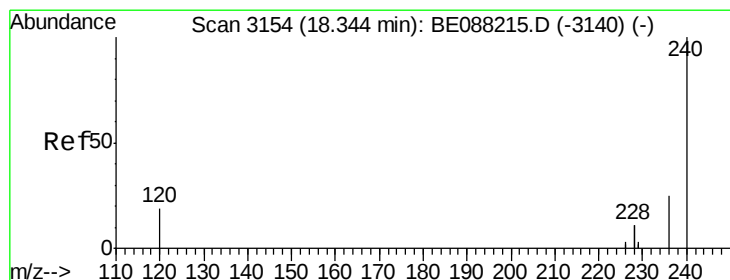
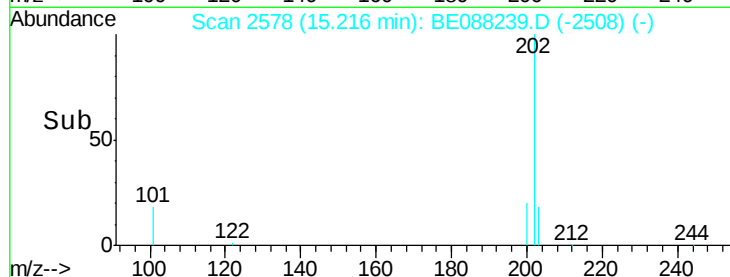
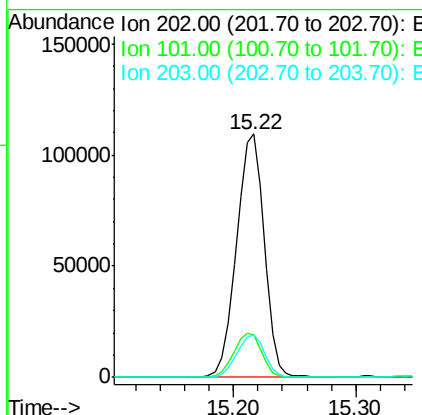
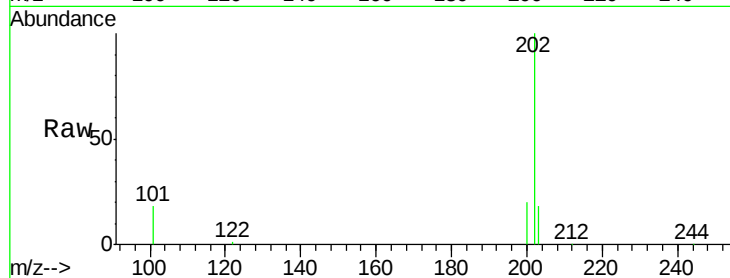




#15
 Fluoranthene
 Concen: 10.75 ng
 RT: 15.22 min Scan# 2578
 Delta R.T. 0.01 min
 Lab File: BE088239.D
 Acq: 25 Oct 2014 8:55

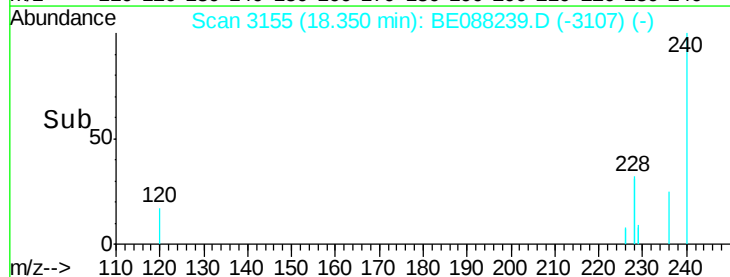
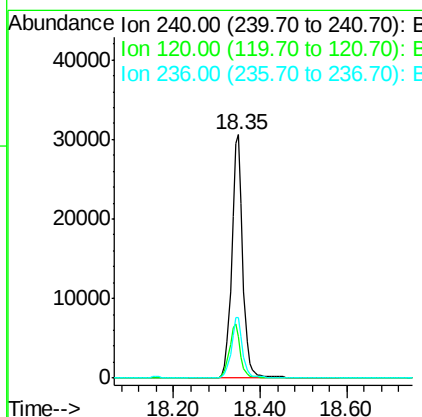
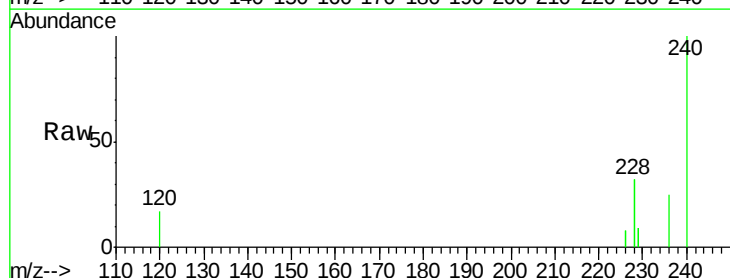
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB42-1014

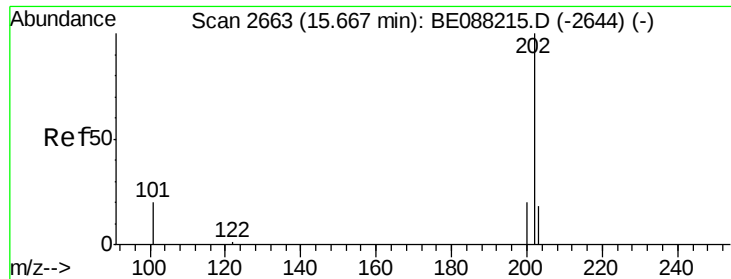
Tgt Ion	Ratio	Lower	Upper
202	100		
101	18.5	14.4	21.6
203	17.4	13.4	20.2



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3155
 Delta R.T. 0.01 min
 Lab File: BE088239.D
 Acq: 25 Oct 2014 8:55

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.9	15.1	22.7
236	24.8	20.1	30.1

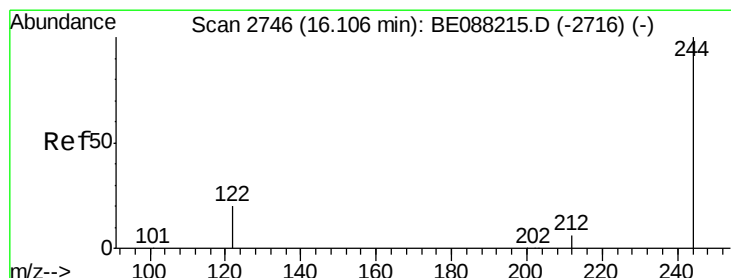
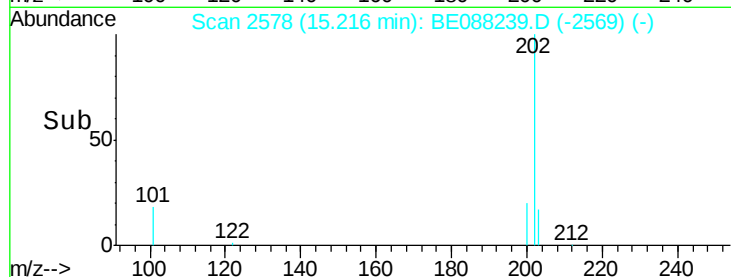
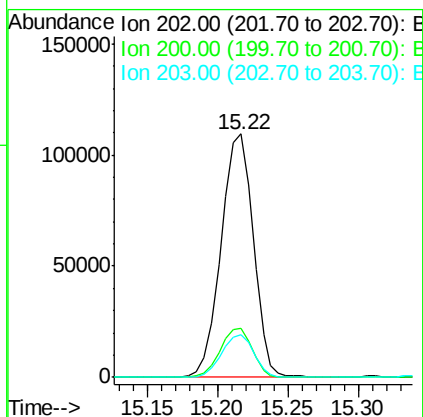
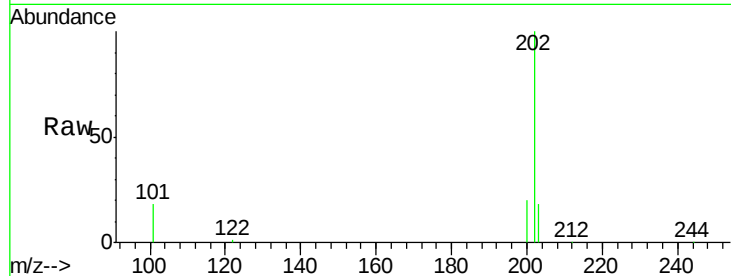




#17
 Pyrene
 Concen: 11.67 ng
 RT: 15.22 min Scan# 2578
 Delta R.T. -0.45 min
 Lab File: BE088239.D
 Acq: 25 Oct 2014 8:55

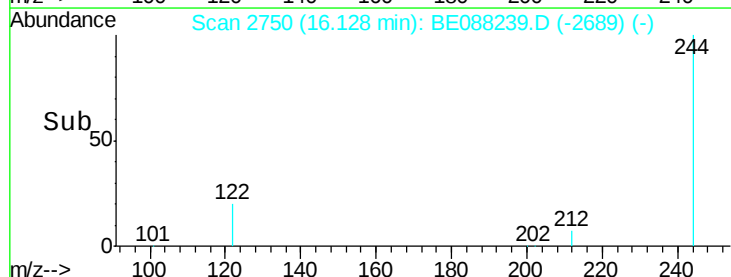
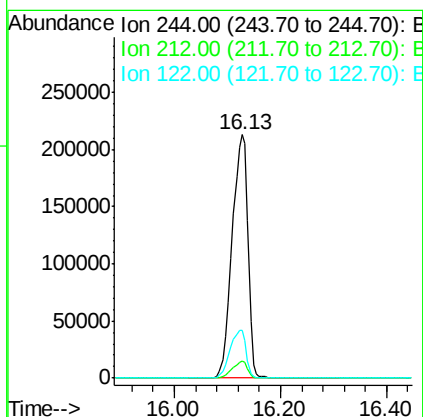
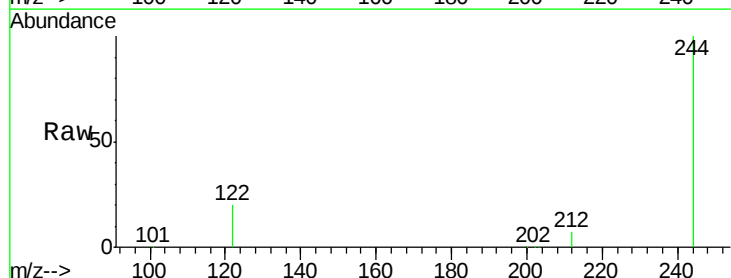
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB42-1014

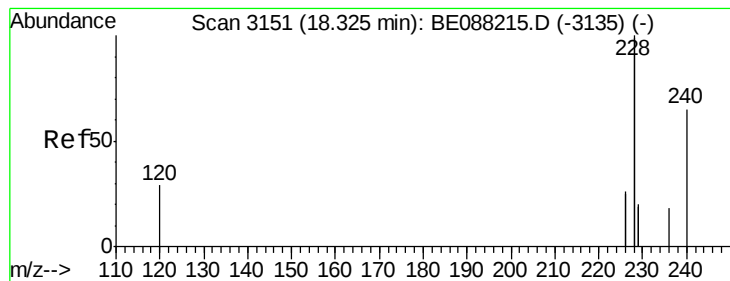
Tgt Ion: 202 Resp: 172421
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.2 24.2
 203 17.4 13.8 20.8



#18
 Terphenyl-d14
 Concen: 49.90 ng
 RT: 16.13 min Scan# 2750
 Delta R.T. 0.02 min
 Lab File: BE088239.D
 Acq: 25 Oct 2014 8:55

Tgt Ion: 244 Resp: 440084
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 19.7 16.7 25.1





#19

Benzo(a)anthracene

Concen: 5.93 ng

RT: 18.32 min Scan# 3151

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

YS19-SB42-1014

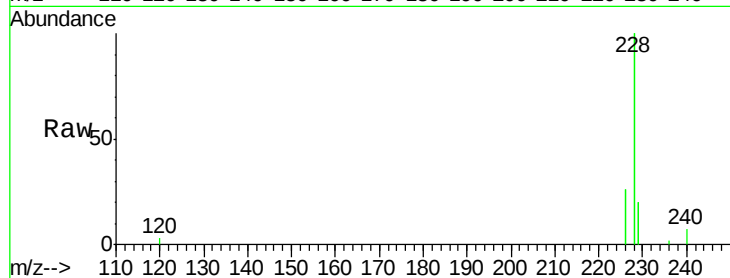
Tgt Ion:228 Resp: 251562

Ion Ratio Lower Upper

228 100

226 25.7 20.5 30.7

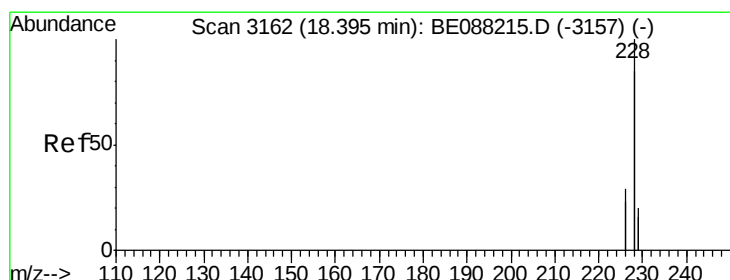
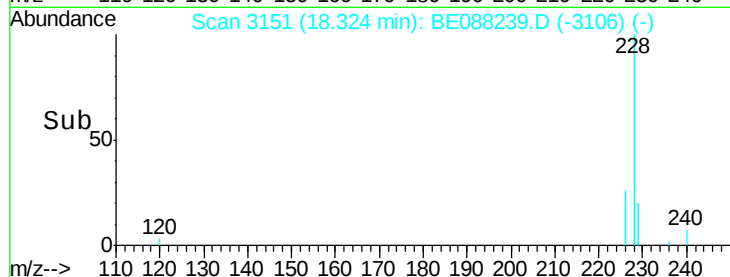
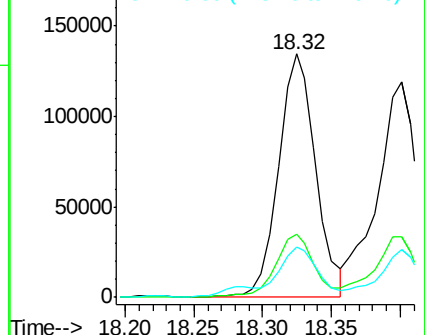
229 20.4 16.1 24.1



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



#20

Chrysene

Concen: 5.01 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.01 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

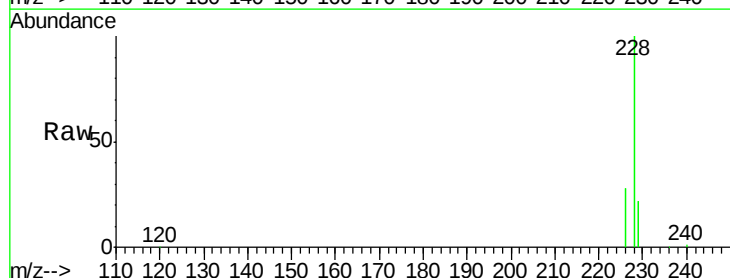
Tgt Ion:228 Resp: 241298

Ion Ratio Lower Upper

228 100

226 27.8 23.3 34.9

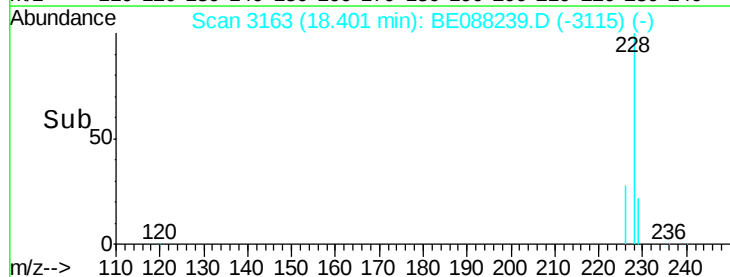
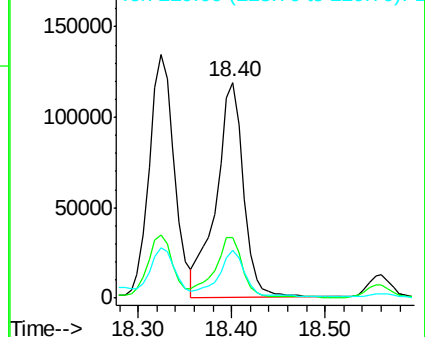
229 22.0 15.6 23.4

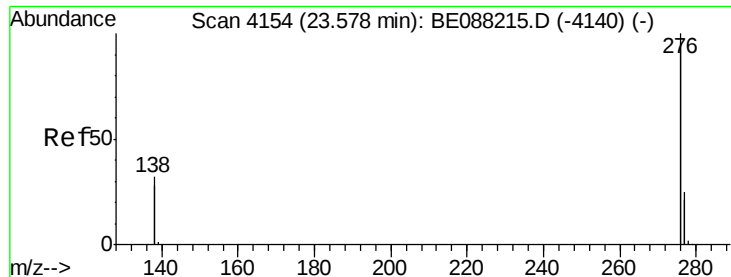


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 2.45 ng

RT: 23.57 min Scan# 4153

Delta R.T. -0.01 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

YS19-SB42-1014

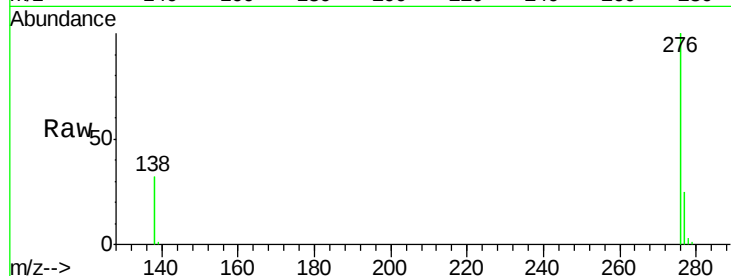
Tgt Ion: 276 Resp: 116013

Ion Ratio Lower Upper

276 100

138 27.3 13.9 20.9#

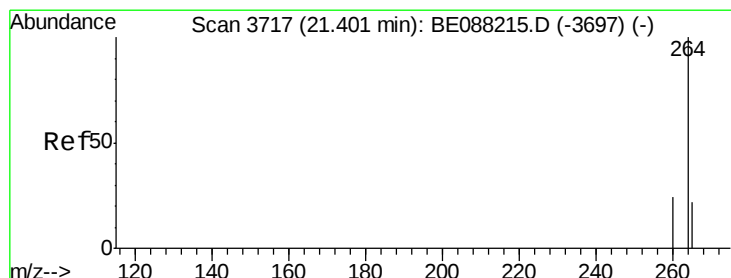
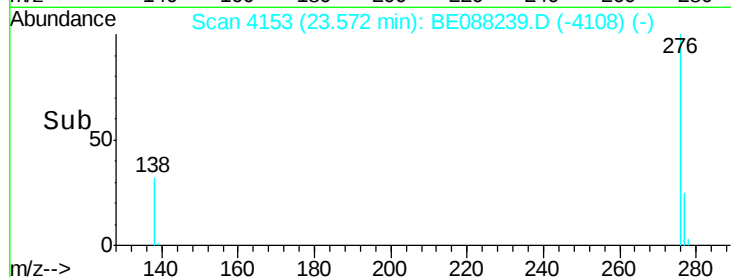
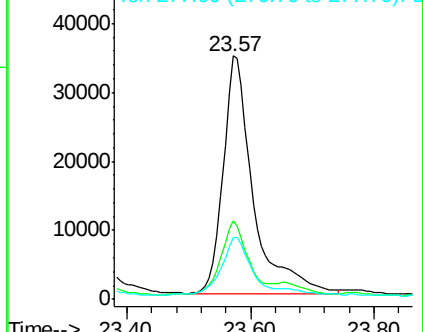
277 25.6 10.7 16.1#



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: 21.40 min Scan# 3717

Delta R.T. 0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

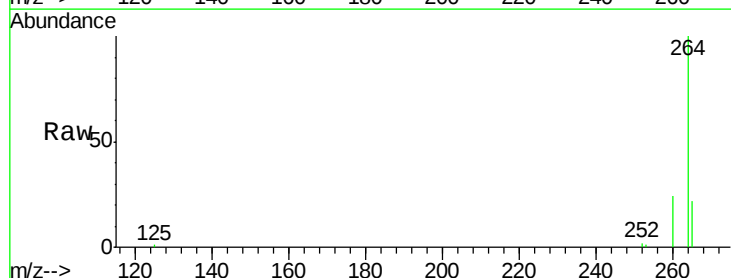
Tgt Ion: 264 Resp: 44458

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

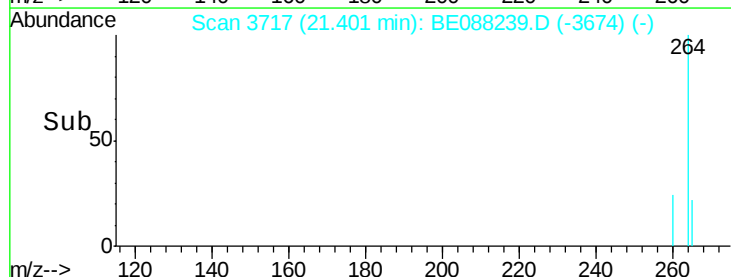
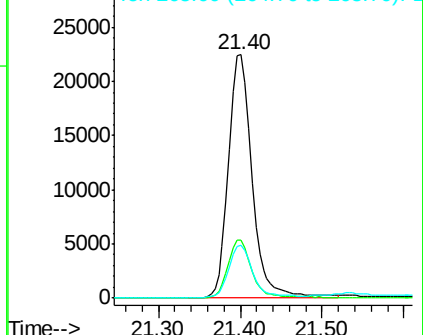
265 21.8 17.4 26.2

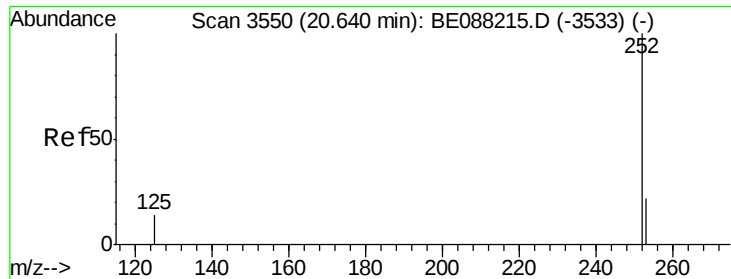


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

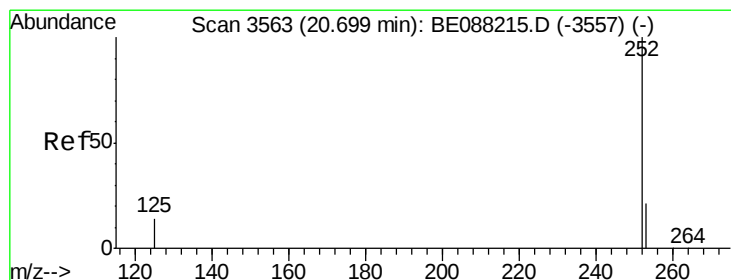
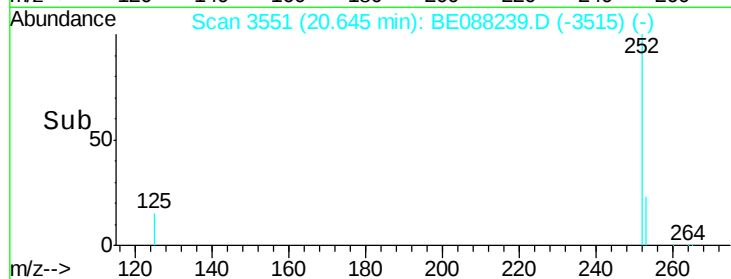
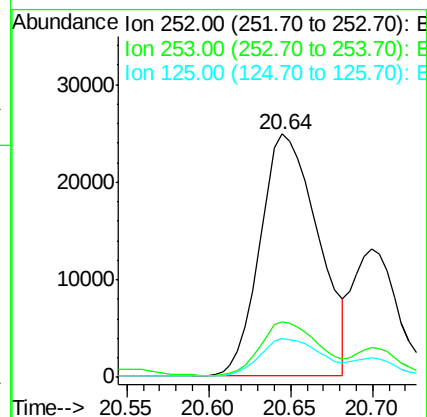
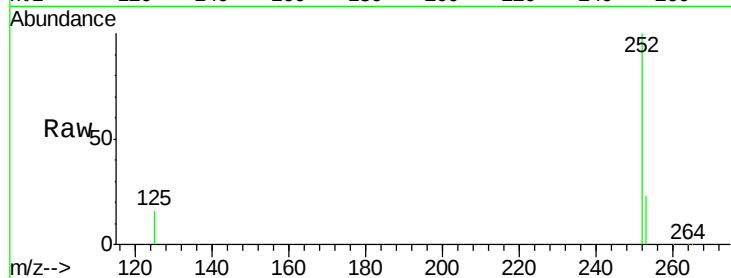




#23
Benzo(b)fluoranthene
Concen: 6.50 ng
RT: 20.64 min Scan# 3551
Delta R.T. 0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

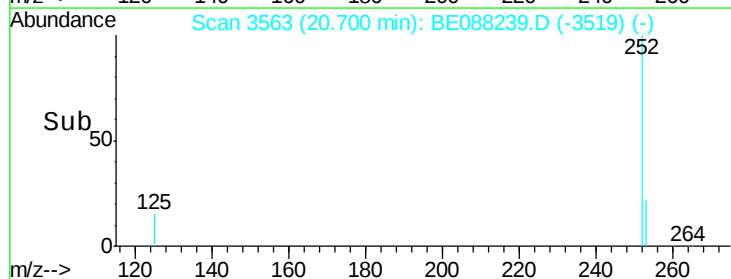
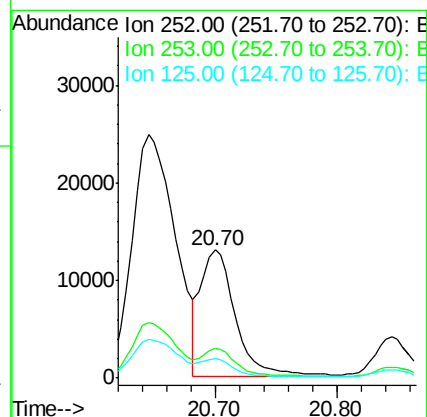
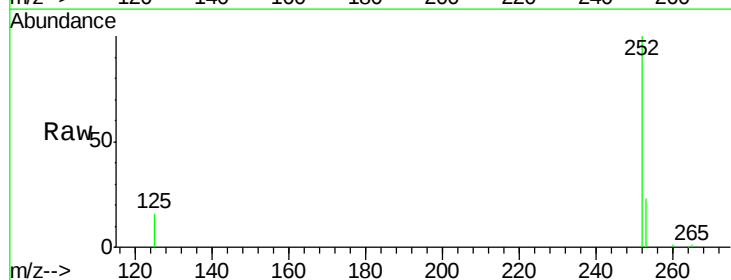
Instrument :
BNA_E
ClientSampleId :
YS19-SB42-1014

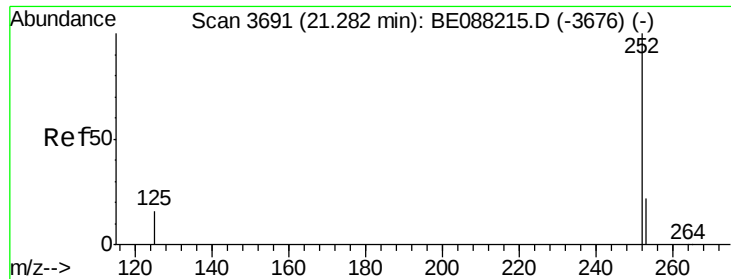
Tgt Ion: 252 Resp: 61333
Ion Ratio Lower Upper
252 100
253 22.9 17.9 26.9
125 15.9 12.2 18.2



#24
Benzo(k)fluoranthene
Concen: 2.29 ng
RT: 20.70 min Scan# 3563
Delta R.T. 0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Tgt Ion: 252 Resp: 26298
Ion Ratio Lower Upper
252 100
253 23.0 17.6 26.4
125 15.8 12.1 18.1

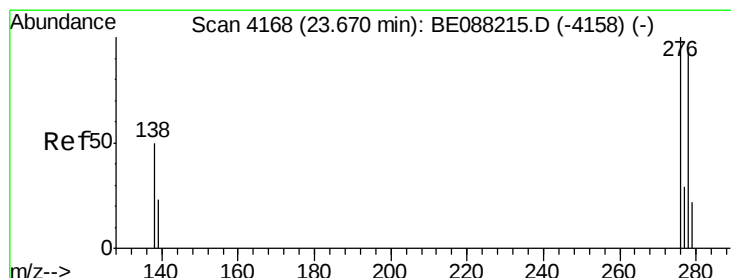
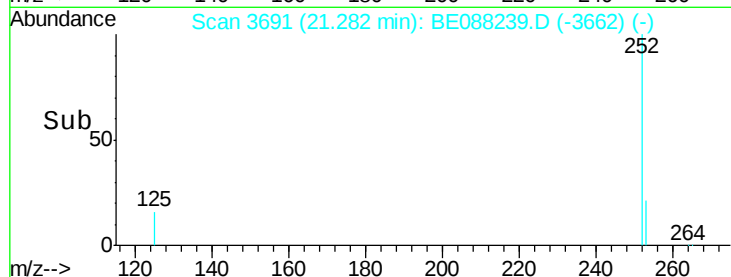
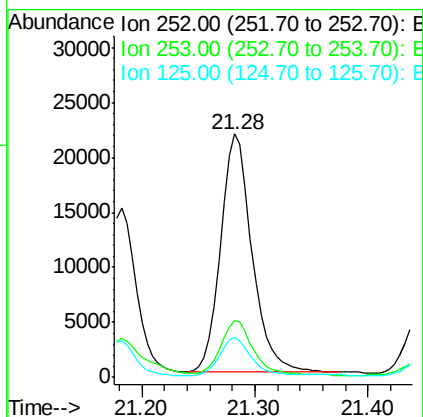
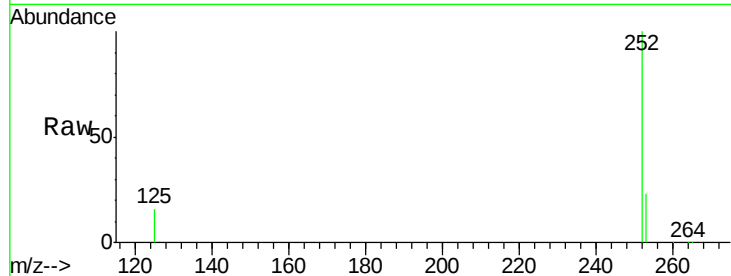




#25
Benzo(a)pyrene
Concen: 4.49 ng
RT: 21.28 min Scan# 3691
Delta R.T. 0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

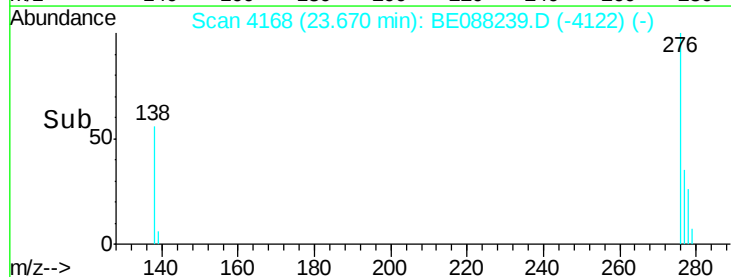
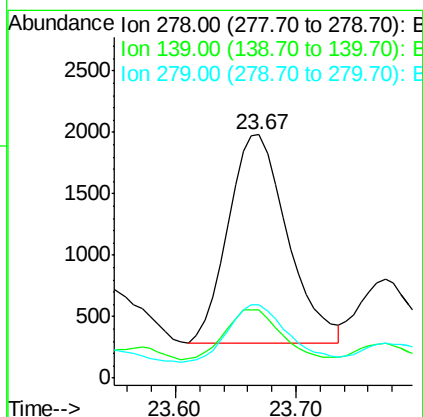
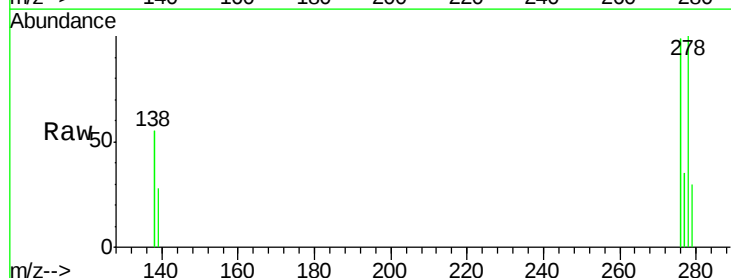
Instrument :
BNA_E
ClientSampleId :
YS19-SB42-1014

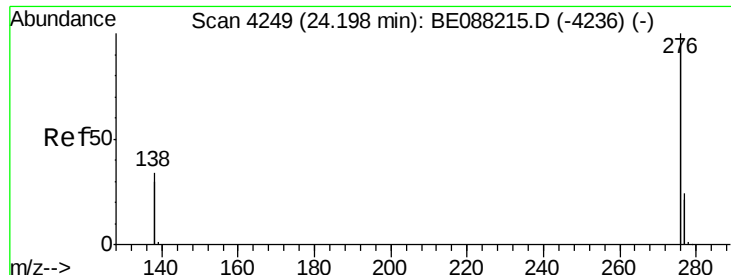
Tgt Ion: 252 Resp: 41500
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 16.3 13.5 20.3



#26
Dibenzo(a,h)anthracene
Concen: 0.83 ng
RT: 23.67 min Scan# 4168
Delta R.T. 0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Tgt Ion: 278 Resp: 5804
Ion Ratio Lower Upper
278 100
139 27.9 22.1 33.1
279 30.0 20.2 30.2





#27

Benzo(g,h,i)perylene

Concen: 3.07 ng

RT: 24.20 min Scan# 4250

Delta R.T. 0.01 min

Lab File: BE088239.D

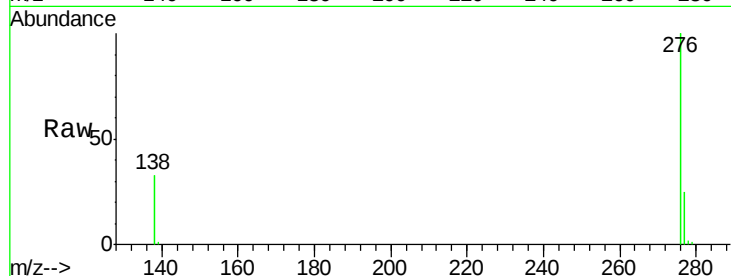
Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

YS19-SB42-1014



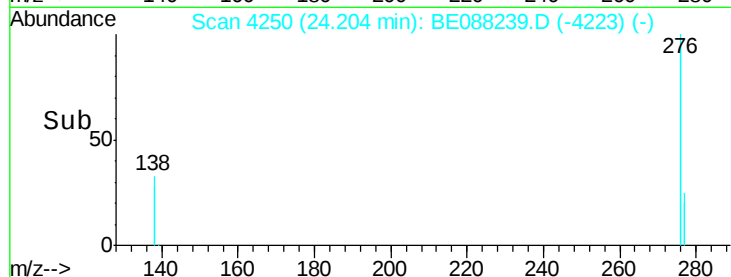
Tgt Ion: 276 Resp: 109414

Ion Ratio Lower Upper

276 100

277 24.6 19.4 29.2

138 32.9 27.3 40.9



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

