

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088215.D
 Acq On : 24 Oct 2014 16:34
 Operator : TP/JJ
 Sample : SSTDICCC001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC001

Quant Time: Oct 27 12:42:58 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 12:38:23 2014
 Response via : Initial Calibration

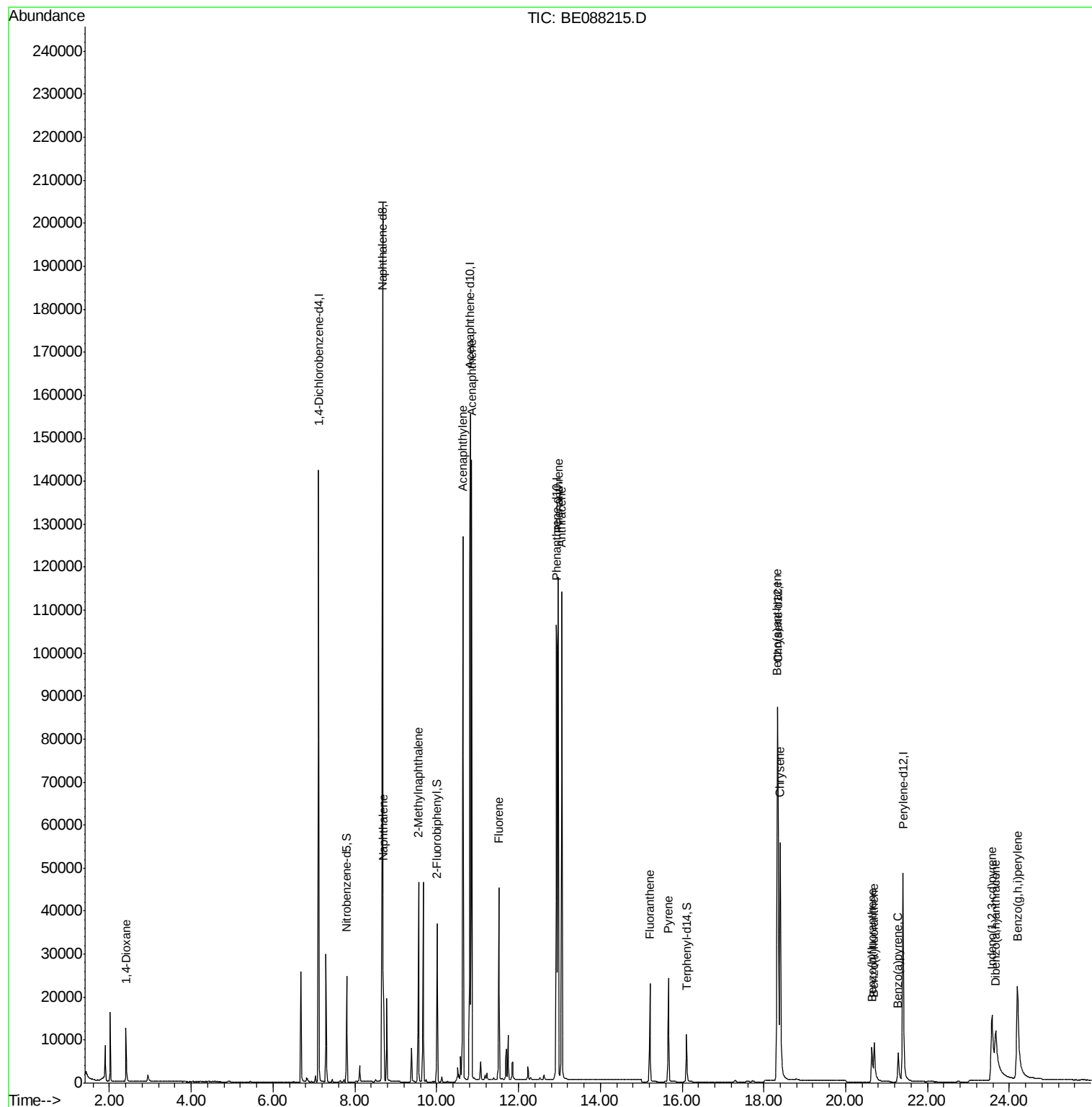
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	46788	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	179001	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	82072	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	144231	5.00	ng	0.00
16) Chrysene-d12	18.34	240	82352	5.00	ng	0.00
22) Perylene-d12	21.40	264	72563	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	12256	1.12	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	23951	1.05	ng	0.00
18) Terphenyl-d14	16.11	244	14312	1.06	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.40	88	6910	1.05	ng	100
5) Naphthalene	8.70	128	38064	1.04	ng	100
6) 2-Methylnaphthalene	9.55	142	23578	1.07	ng	100
9) Acenaphthylene	10.64	152	132144	1.08	ng	100
10) Acenaphthene	10.86	154	20249	1.04	ng	100
11) Fluorene	11.52	166	21406	1.08	ng	100
13) Phenanthrene	12.97	178	144603	1.21	ng	96
14) Anthracene	13.06	178	109750	1.07	ng	100
15) Fluoranthene	15.21	202	22313	1.06	ng	100
17) Pyrene	15.67	202	24333	1.08	ng	100
19) Benzo(a)anthracene	18.32	228	65644	1.01	ng	100
20) Chrysene	18.40	228	75595	1.03	ng	100
21) Indeno(1,2,3-cd)pyrene	23.58	276	35925	0.55	ng	# 72
23) Benzo(b)fluoranthene	20.64	252	13057	1.10	ng	100
24) Benzo(k)fluoranthene	20.70	252	19701	1.05	ng	100
25) Benzo(a)pyrene	21.28	252	12726	1.09	ng	100
26) Dibenzo(a,h)anthracene	23.67	278	11510	1.04	ng	100
27) Benzo(g,h,i)perylene	24.20	276	59740	1.03	ng	100

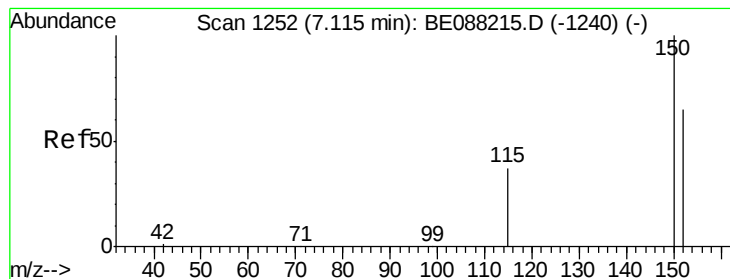
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

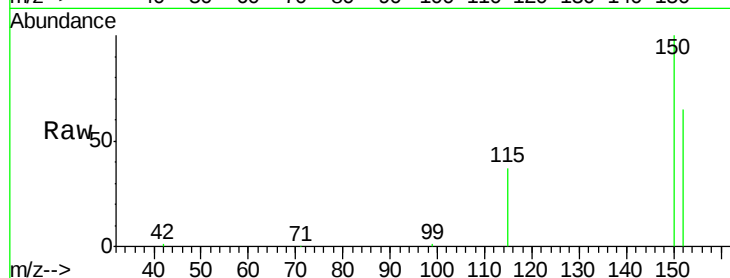
Tgt Ion:152 Resp: 46788

Ion Ratio Lower Upper

152 100

150 154.0 123.2 184.8

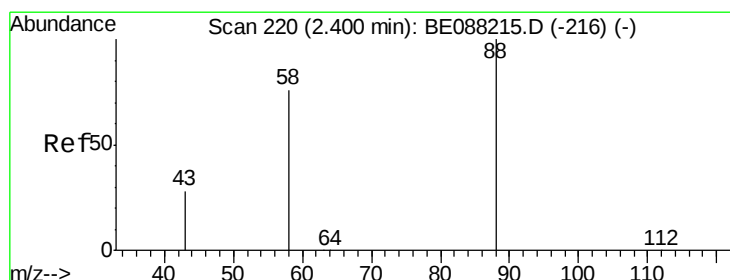
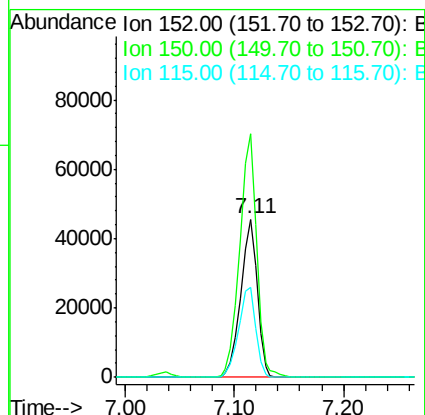
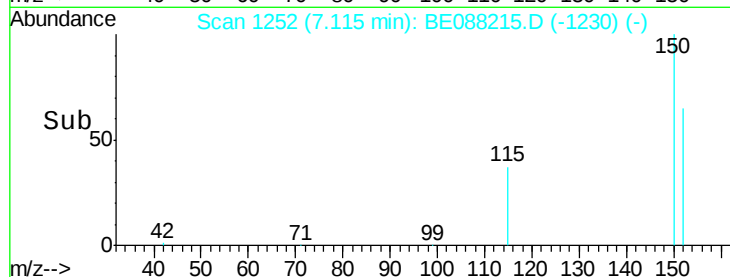
115 56.6 45.3 67.9



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: 1.05 ng

RT: 2.40 min Scan# 220

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

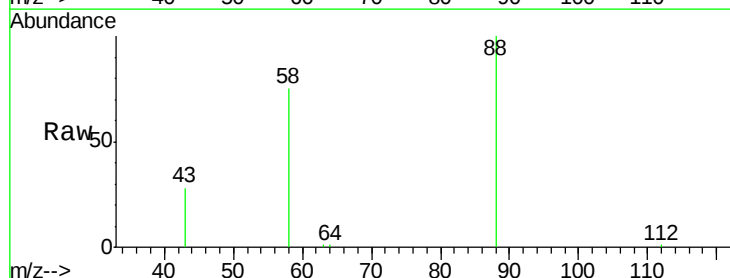
Tgt Ion: 88 Resp: 6910

Ion Ratio Lower Upper

88 100

58 73.7 59.0 88.4

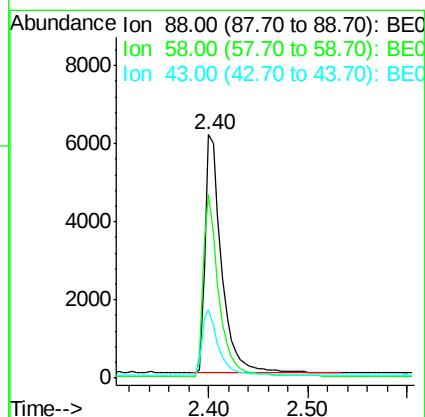
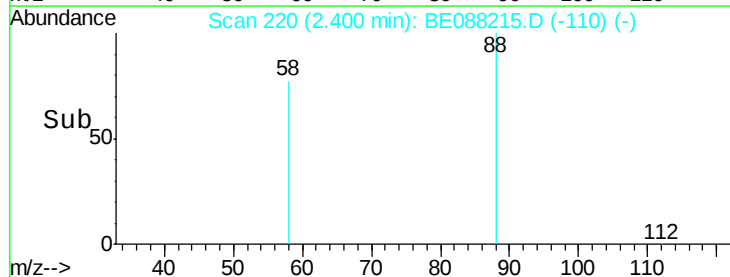
43 27.4 21.9 32.9

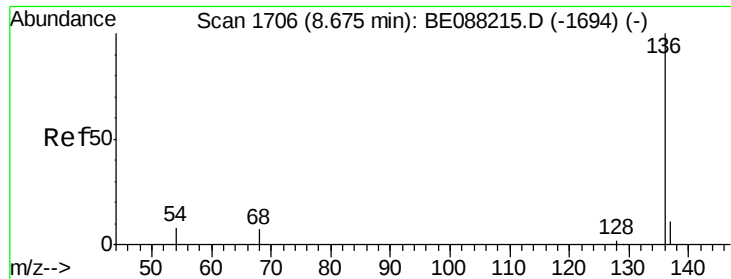


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

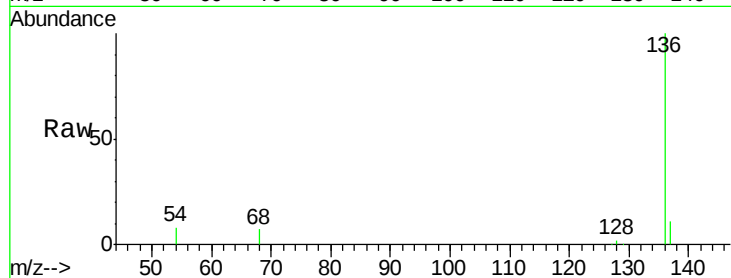




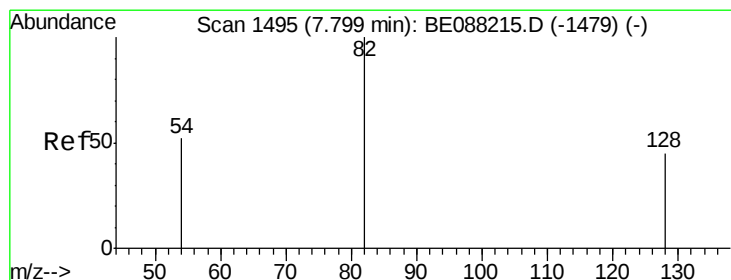
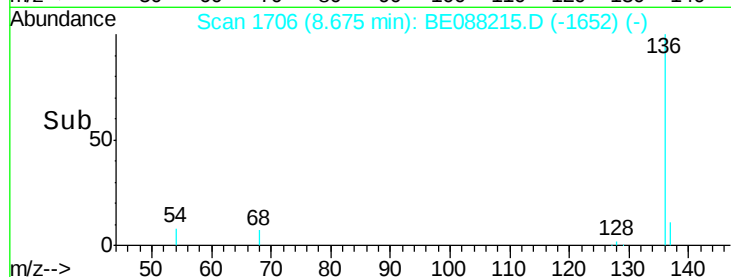
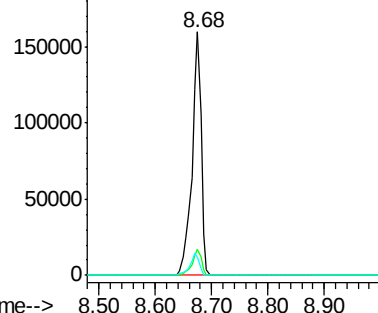
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.68 min Scan# 1706
Delta R.T. 0.00 min
Lab File: BE088215.D
Acq: 24 Oct 2014 16:34

Instrument :
BNA_E
ClientSampleId :
SSTDICCC001

Tgt Ion: 136 Resp: 179001
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 7.6 6.1 9.1

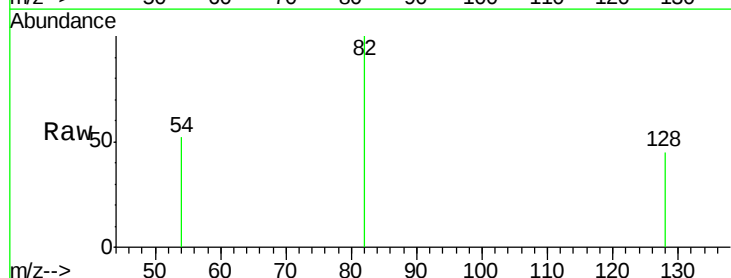


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

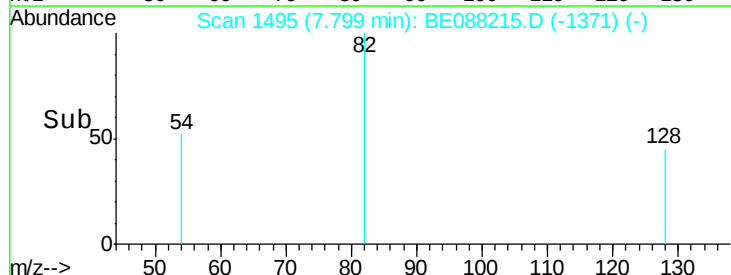
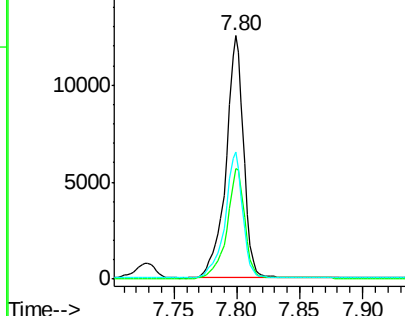


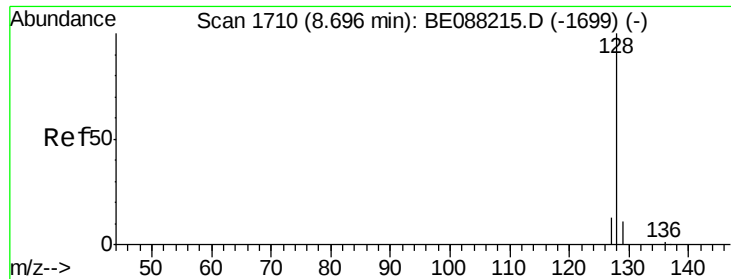
#4
Nitrobenzene-d5
Concen: 1.12 ng
RT: 7.80 min Scan# 1495
Delta R.T. 0.00 min
Lab File: BE088215.D
Acq: 24 Oct 2014 16:34

Tgt Ion: 82 Resp: 12256
Ion Ratio Lower Upper
82 100
128 45.2 36.2 54.2
54 52.3 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: 1.04 ng

RT: 8.70 min Scan# 1710

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

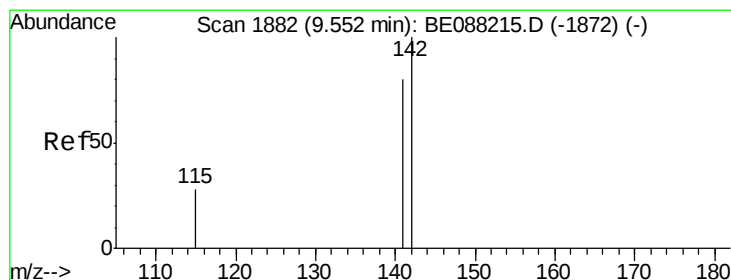
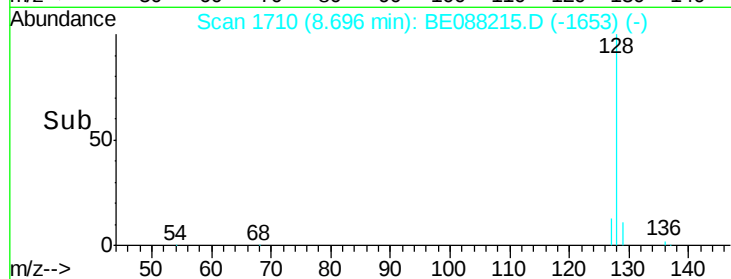
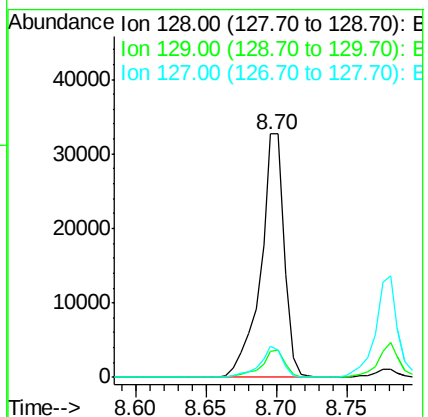
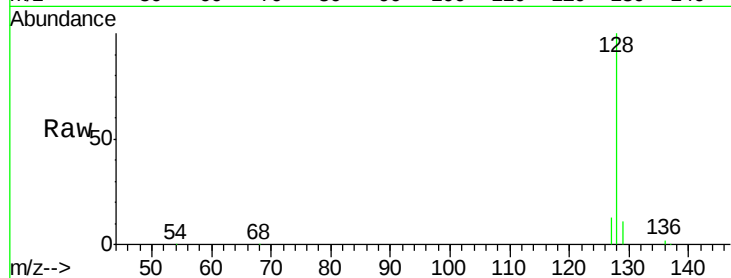
Tgt Ion:128 Resp: 38064

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

127 13.0 10.4 15.6



#6

2-Methylnaphthalene

Concen: 1.07 ng

RT: 9.55 min Scan# 1882

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

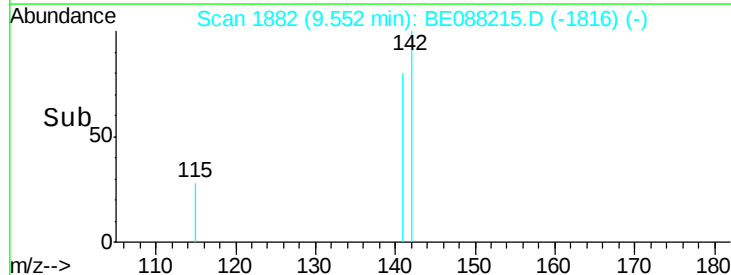
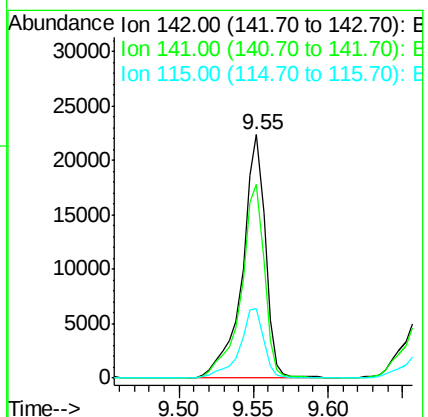
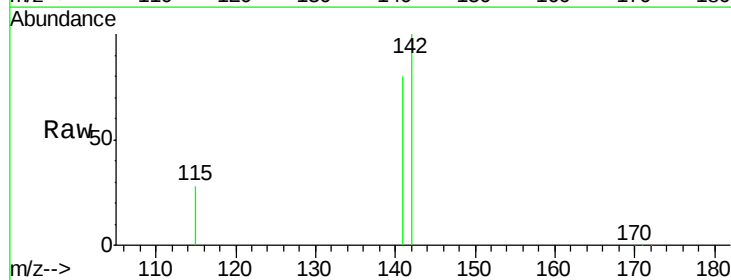
Tgt Ion:142 Resp: 23578

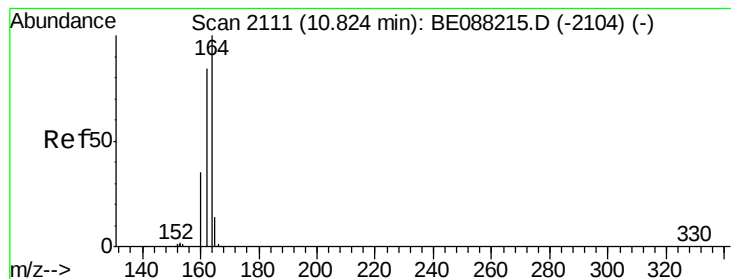
Ion Ratio Lower Upper

142 100

141 79.6 63.7 95.5

115 28.3 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: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

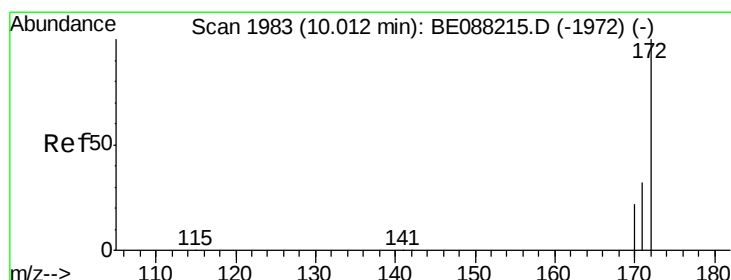
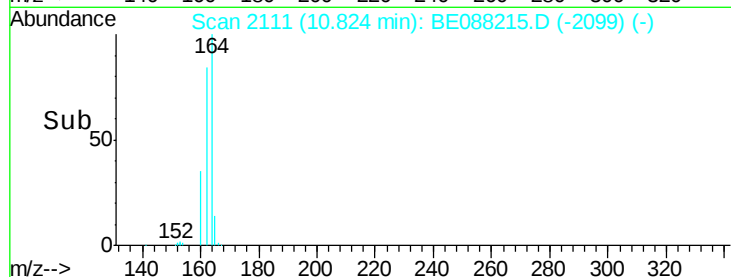
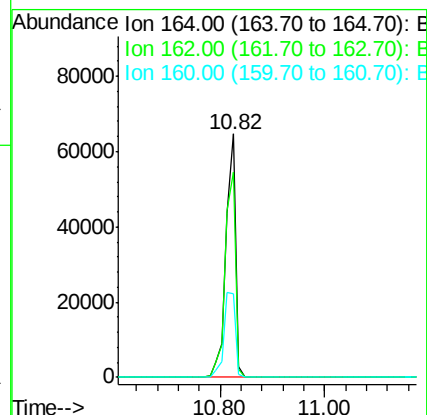
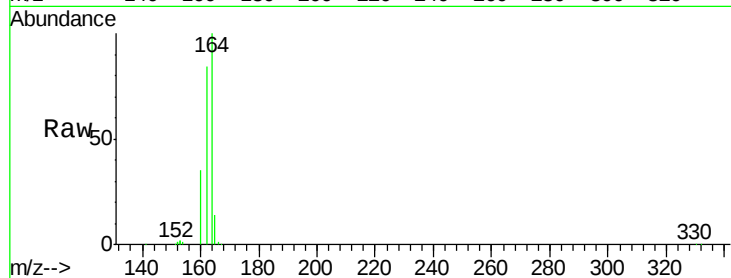
Tgt Ion:164 Resp: 82072

Ion Ratio Lower Upper

164 100

162 84.2 67.4 101.0

160 34.6 27.7 41.5



#8

2-Fluorobiphenyl

Concen: 1.05 ng

RT: 10.01 min Scan# 1983

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

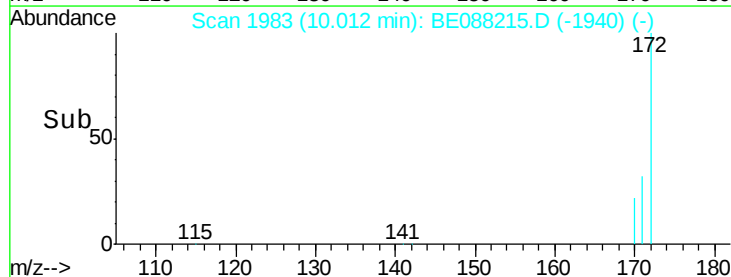
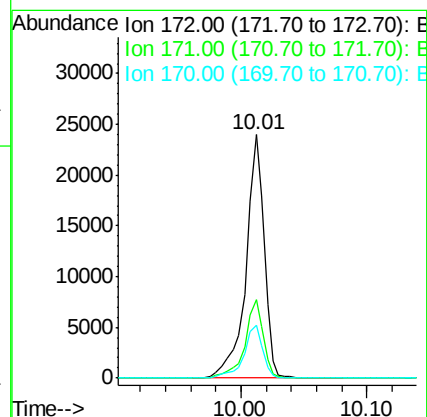
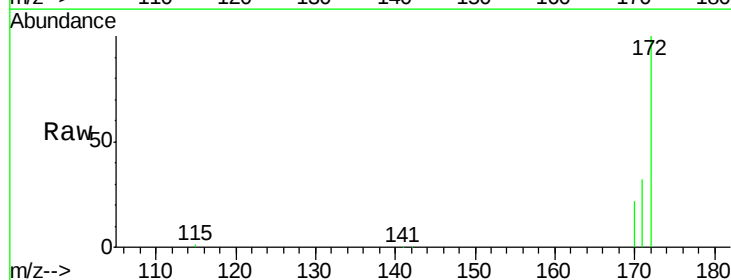
Tgt Ion:172 Resp: 23951

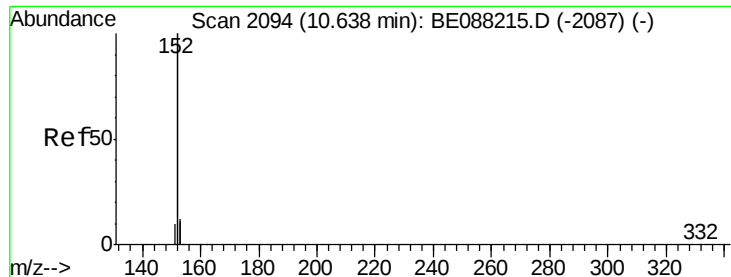
Ion Ratio Lower Upper

172 100

171 32.2 25.8 38.6

170 21.7 17.4 26.0





#9

Acenaphthylene

Concen: 1.08 ng

RT: 10.64 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

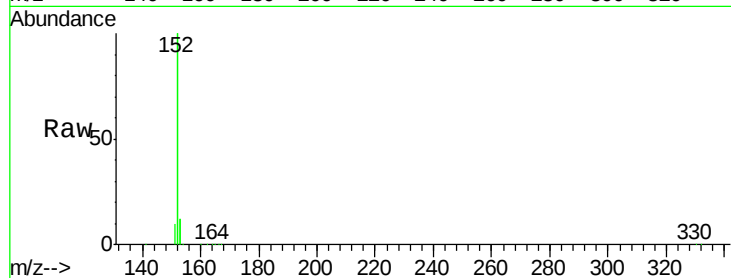
Tgt Ion:152 Resp: 132144

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

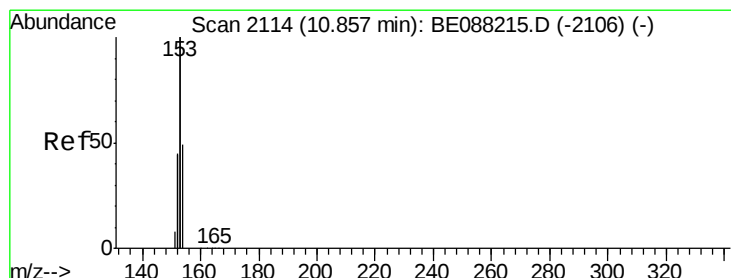
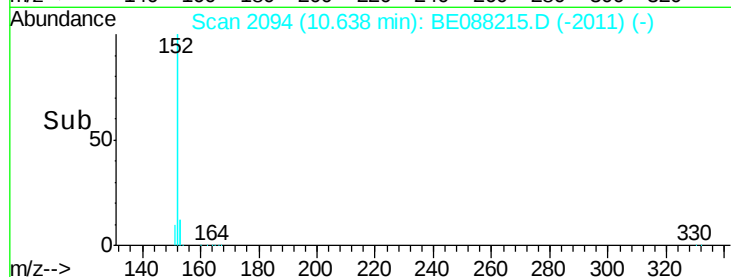
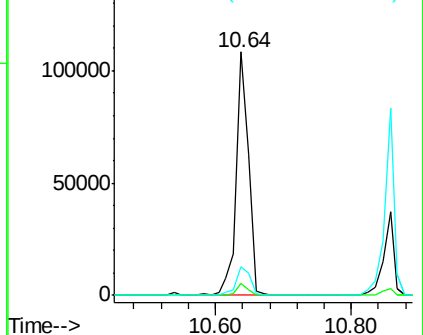
153 12.9 10.3 15.5



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: 1.04 ng

RT: 10.86 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

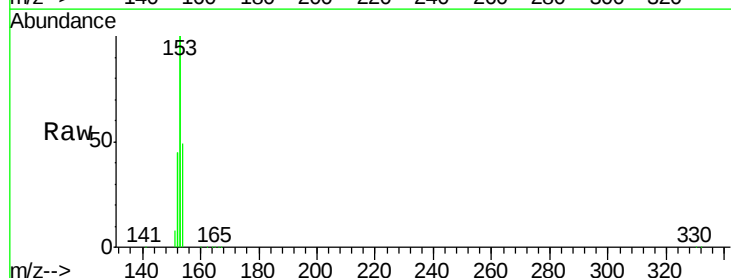
Tgt Ion:154 Resp: 20249

Ion Ratio Lower Upper

154 100

153 407.5 326.0 489.0

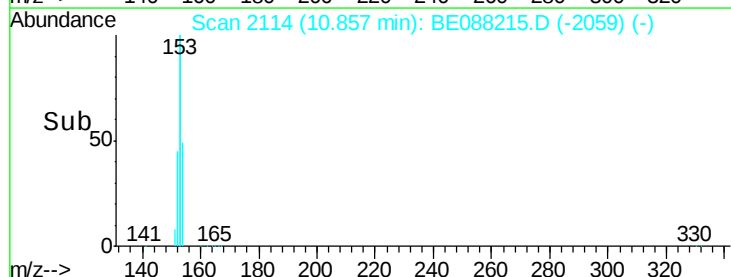
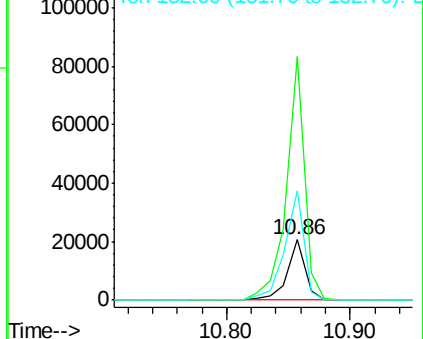
152 194.5 155.6 233.4

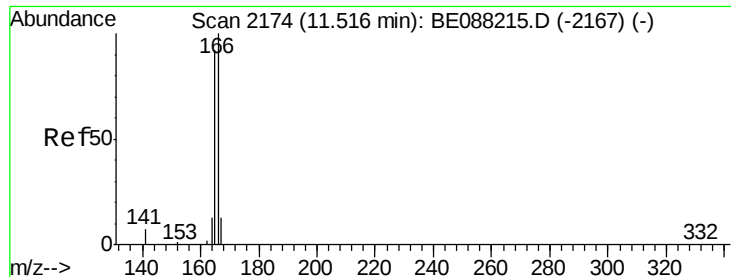


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 1.08 ng

RT: 11.52 min Scan# 2174

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

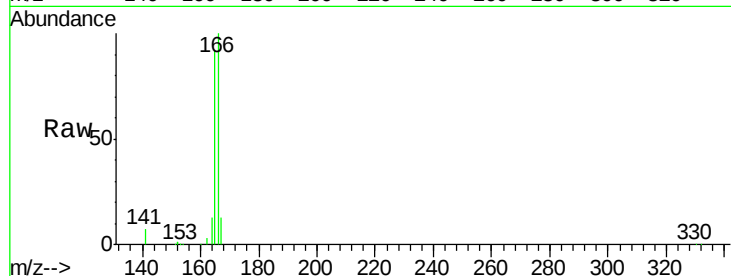
Tgt Ion:166 Resp: 21406

Ion Ratio Lower Upper

166 100

165 89.7 71.8 107.6

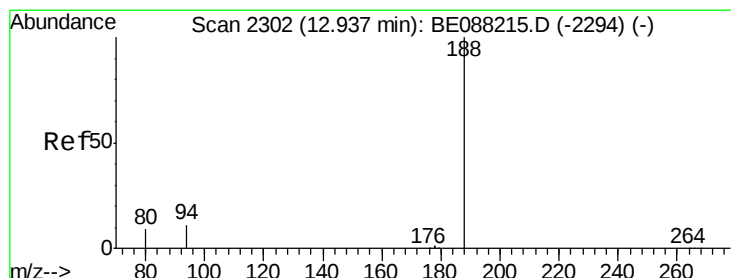
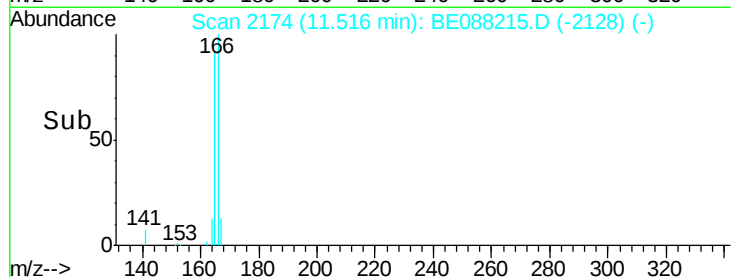
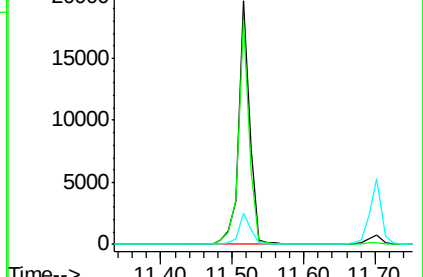
167 13.4 10.7 16.1



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: BE088215.D

Acq: 24 Oct 2014 16:34

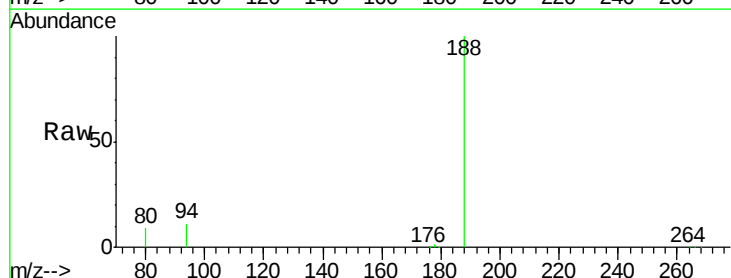
Tgt Ion:188 Resp: 144231

Ion Ratio Lower Upper

188 100

94 10.6 8.5 12.7

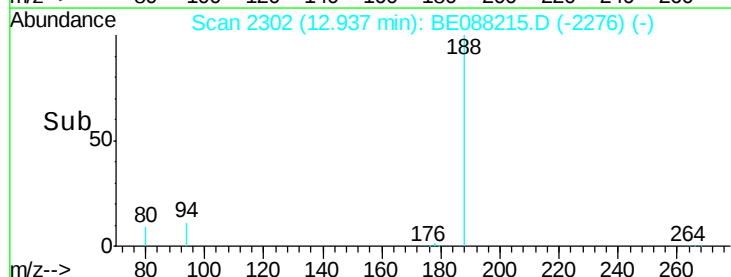
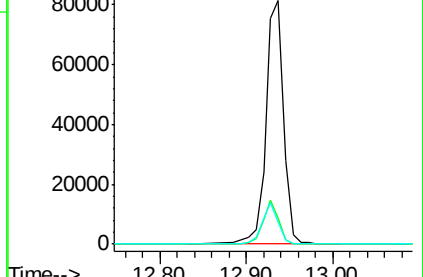
80 9.2 7.4 11.0

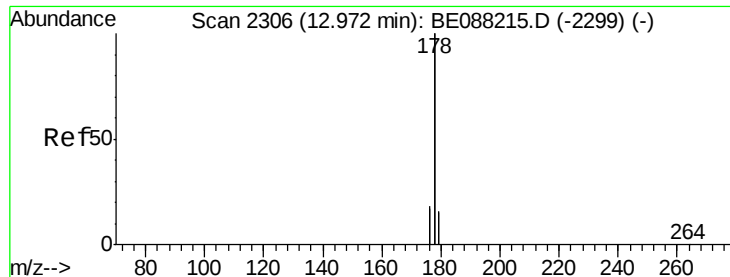


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 1.21 ng

RT: 12.97 min Scan# 2306

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

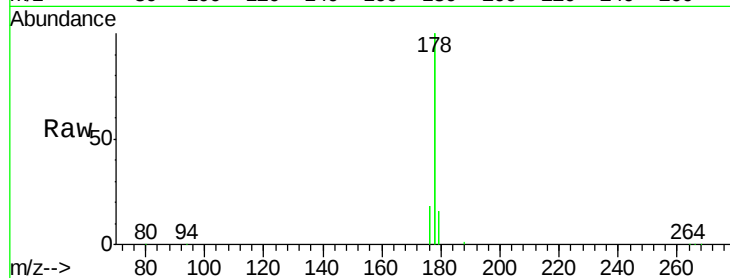
Tgt Ion:178 Resp: 144603

Ion Ratio Lower Upper

178 100

176 19.4 14.0 21.0

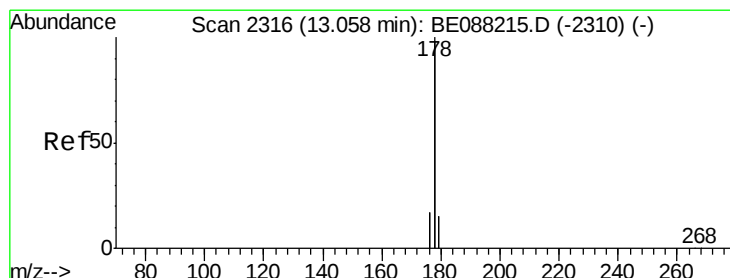
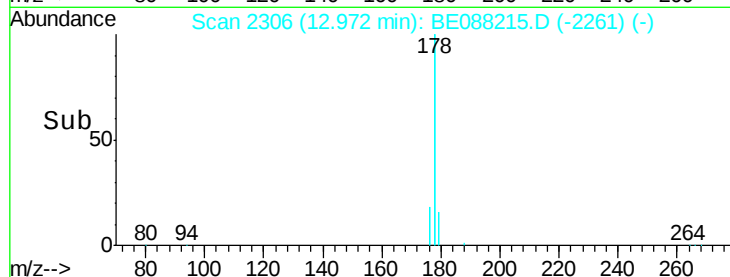
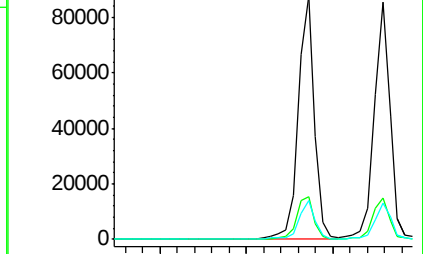
179 16.5 11.8 17.6



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: 1.07 ng

RT: 13.06 min Scan# 2316

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

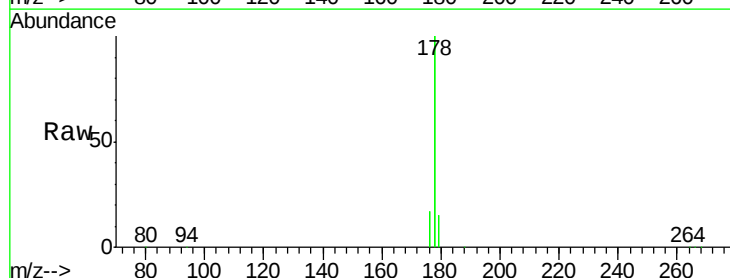
Tgt Ion:178 Resp: 109750

Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

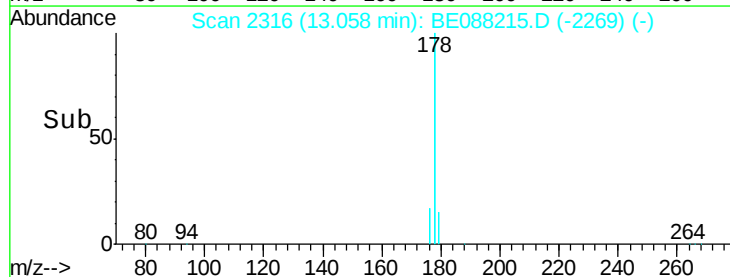
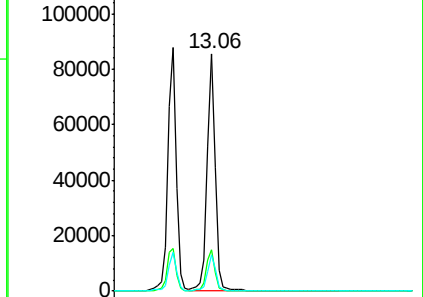
179 15.4 12.3 18.5

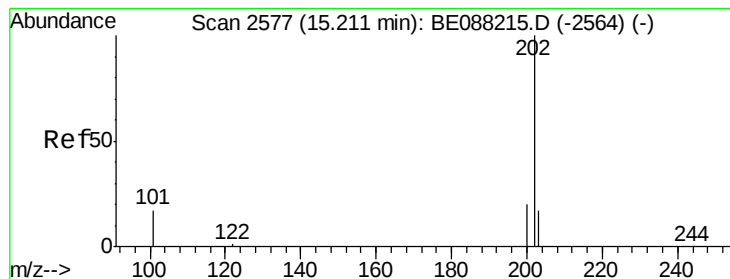


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 1.06 ng

RT: 15.21 min Scan# 2577

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

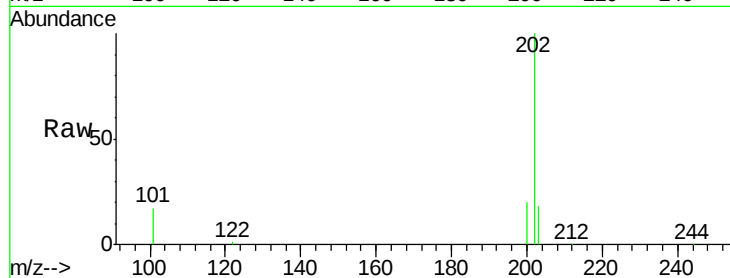
Tgt Ion:202 Resp: 22313

Ion Ratio Lower Upper

202 100

101 18.0 14.4 21.6

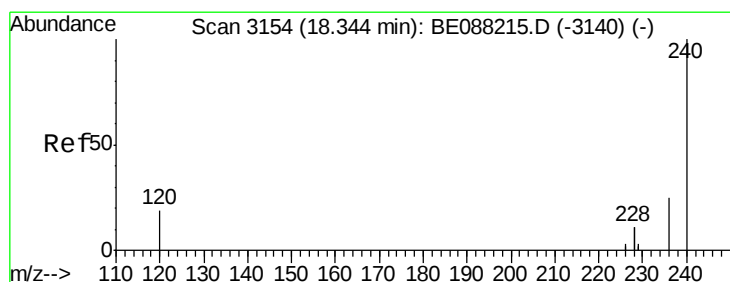
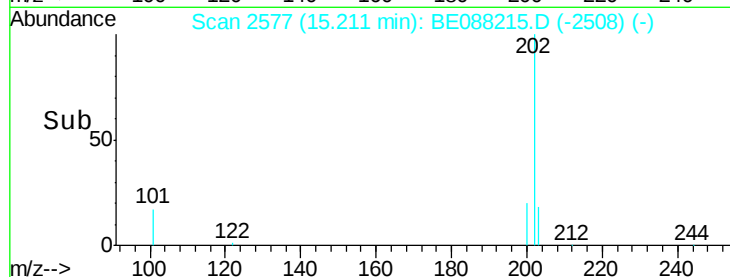
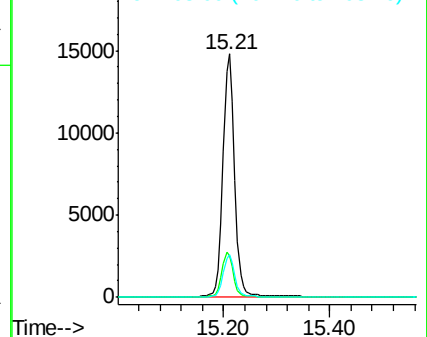
203 16.8 13.4 20.2



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: 18.34 min Scan# 3154

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

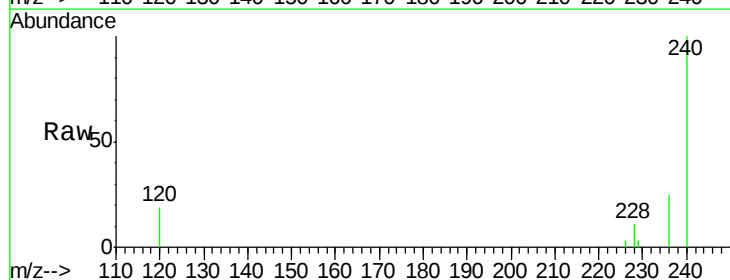
Tgt Ion:240 Resp: 82352

Ion Ratio Lower Upper

240 100

120 18.9 15.1 22.7

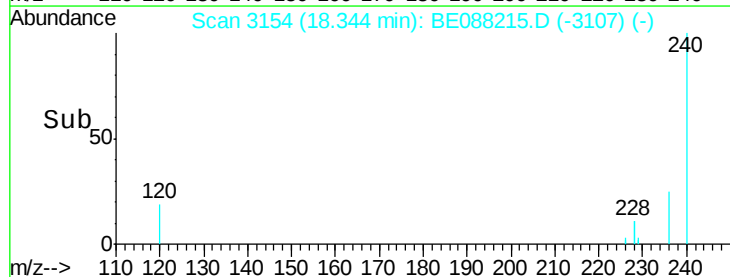
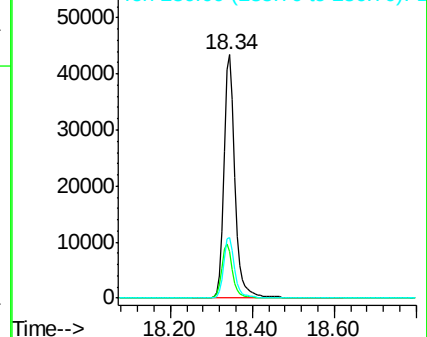
236 25.1 20.1 30.1

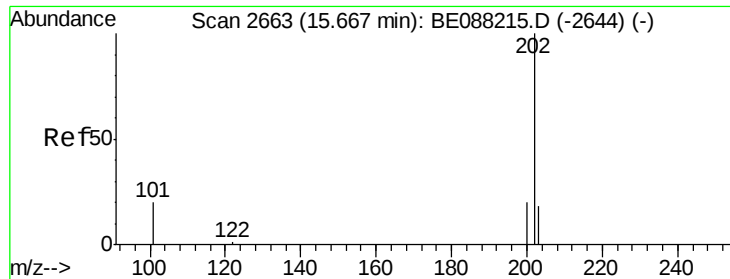


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

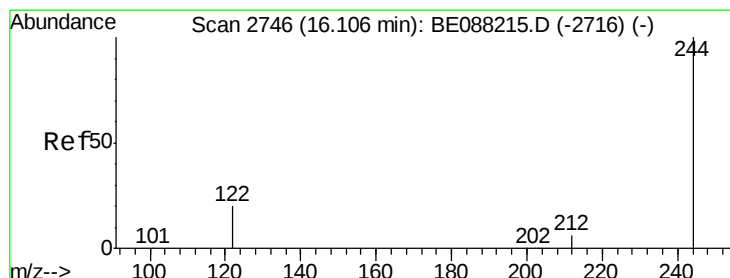
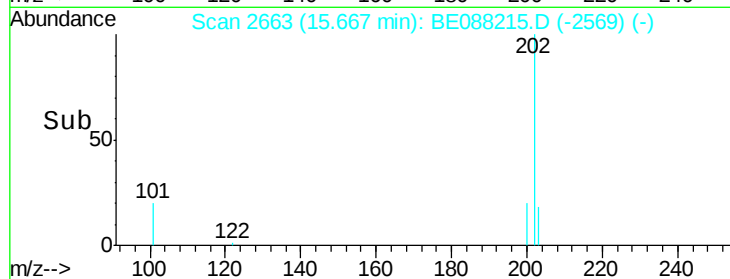
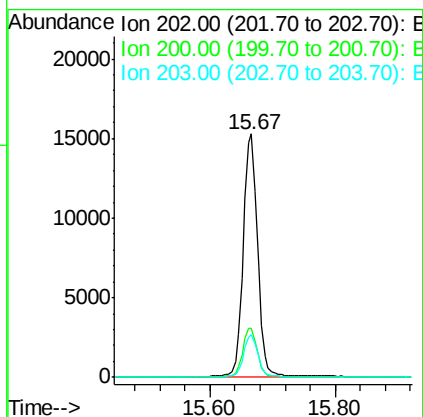
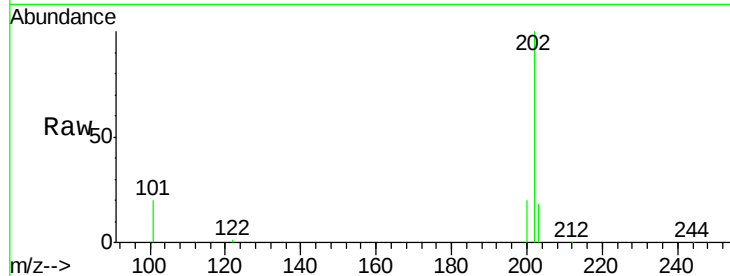




#17
 Pyrene
 Concen: 1.08 ng
 RT: 15.67 min Scan# 2663
 Delta R.T. 0.00 min
 Lab File: BE088215.D
 Acq: 24 Oct 2014 16:34

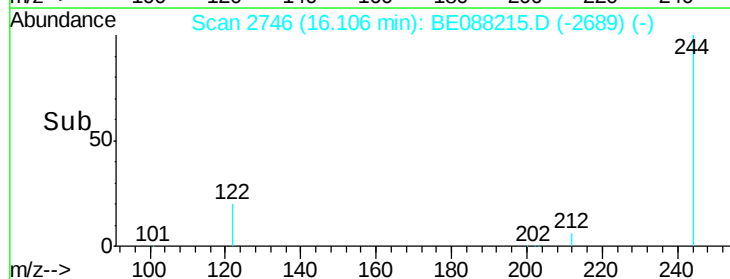
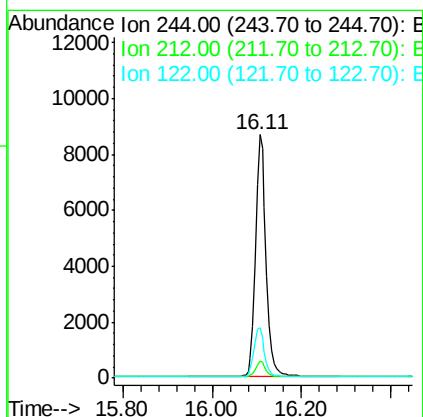
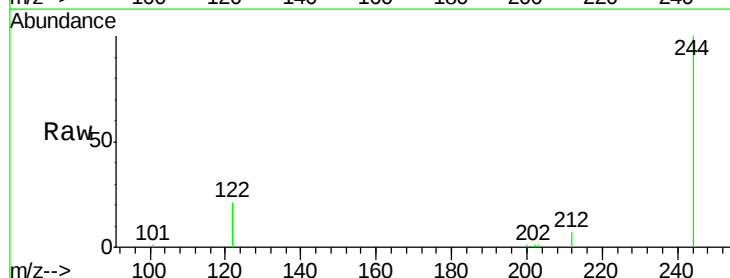
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC001

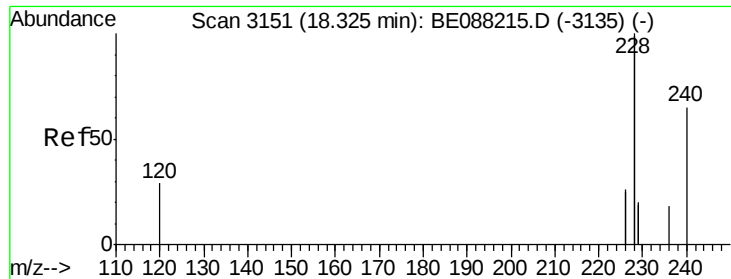
Tgt Ion: 202 Resp: 24333
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.2 24.2
 203 17.3 13.8 20.8



#18
 Terphenyl-d14
 Concen: 1.06 ng
 RT: 16.11 min Scan# 2746
 Delta R.T. 0.00 min
 Lab File: BE088215.D
 Acq: 24 Oct 2014 16:34

Tgt Ion: 244 Resp: 14312
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 20.9 16.7 25.1





#19

Benzo(a)anthracene

Concen: 1.01 ng

RT: 18.32 min Scan# 3151

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

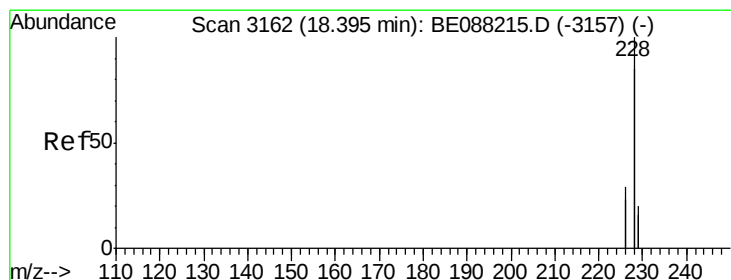
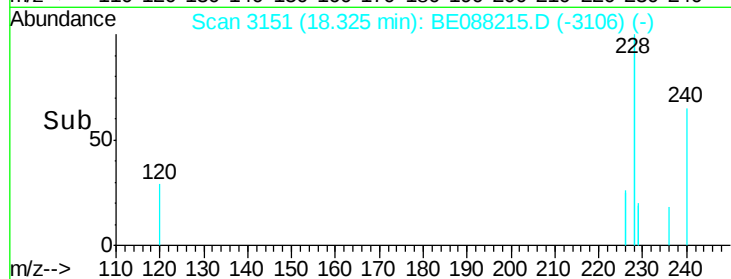
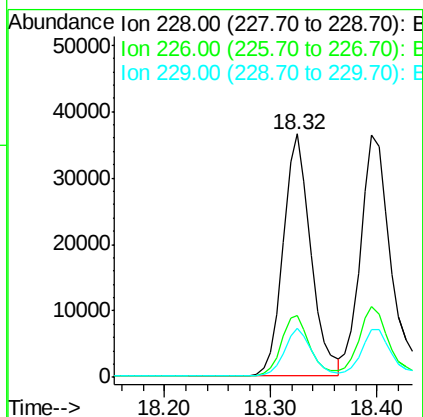
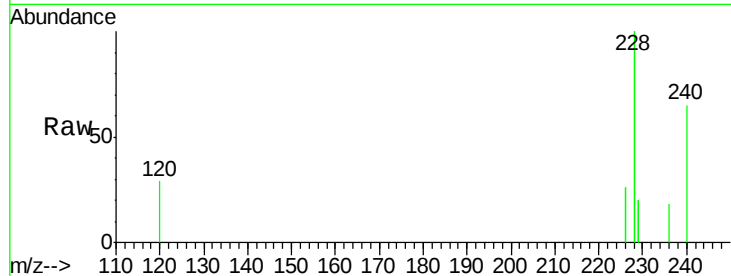
Tgt Ion:228 Resp: 65644

Ion Ratio Lower Upper

228 100

226 25.6 20.5 30.7

229 20.1 16.1 24.1



#20

Chrysene

Concen: 1.03 ng

RT: 18.40 min Scan# 3162

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

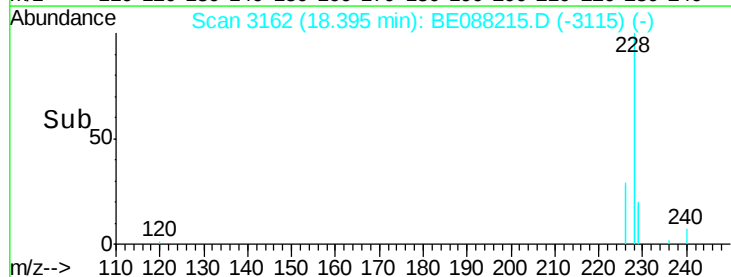
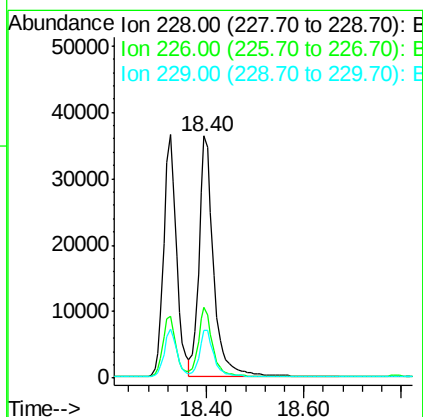
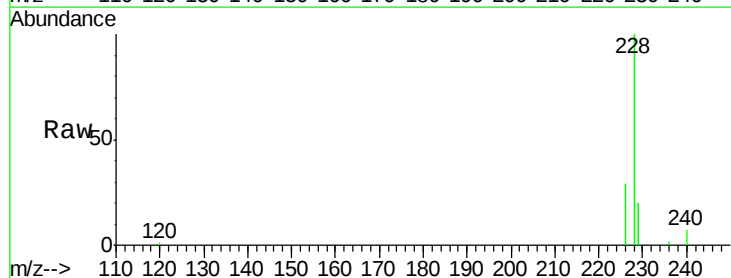
Tgt Ion:228 Resp: 75595

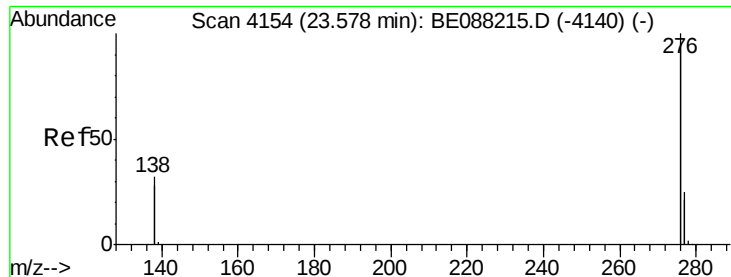
Ion Ratio Lower Upper

228 100

226 29.1 23.3 34.9

229 19.5 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.55 ng

RT: 23.58 min Scan# 4154

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

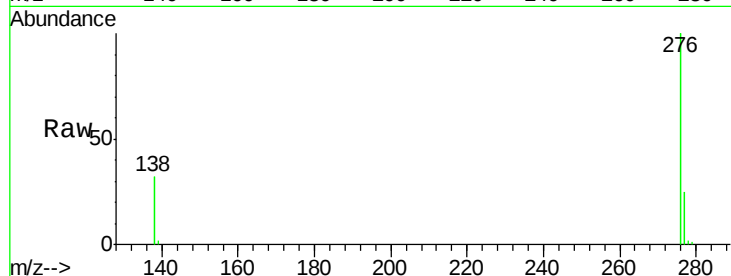
Tgt Ion:276 Resp: 35925

Ion Ratio Lower Upper

276 100

138 30.6 13.9 20.9#

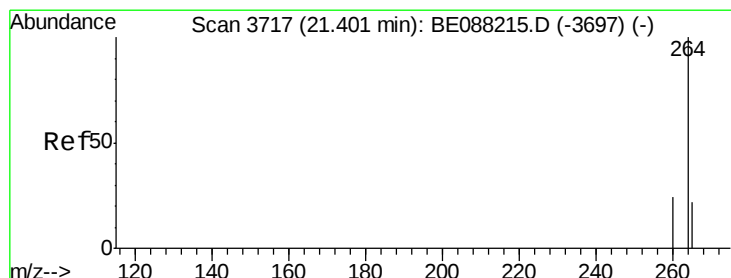
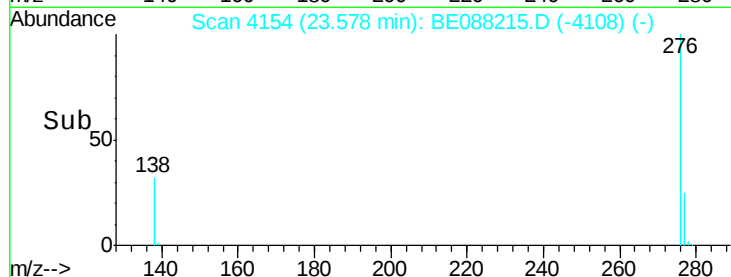
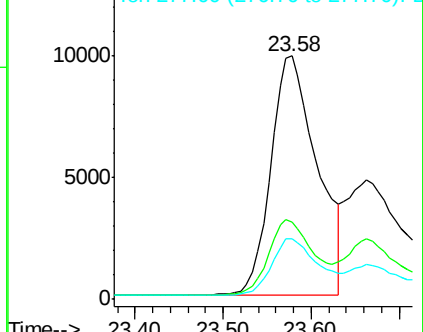
277 23.6 10.7 16.1#



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: BE088215.D

Acq: 24 Oct 2014 16:34

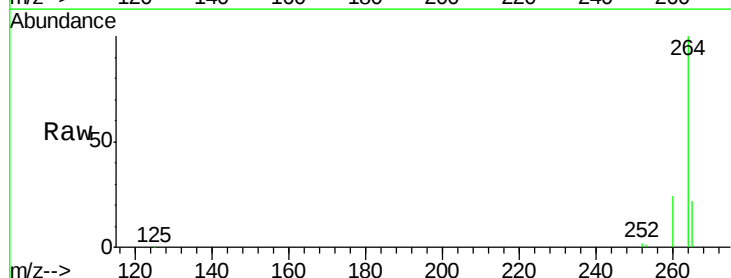
Tgt Ion:264 Resp: 72563

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

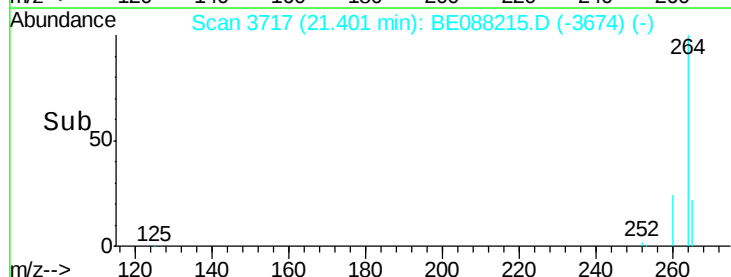
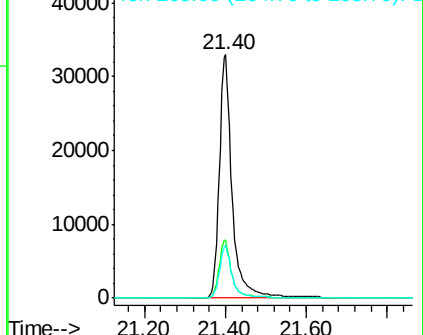
265 21.8 17.4 26.2

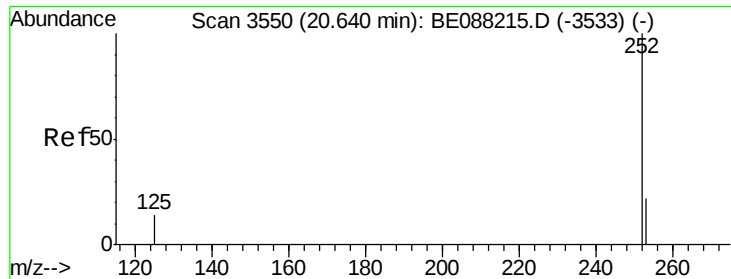


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 1.10 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

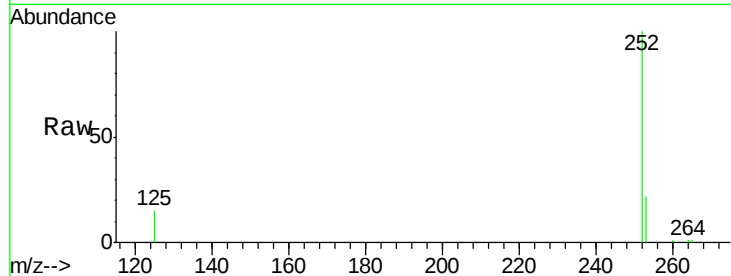
Tgt Ion:252 Resp: 13057

Ion Ratio Lower Upper

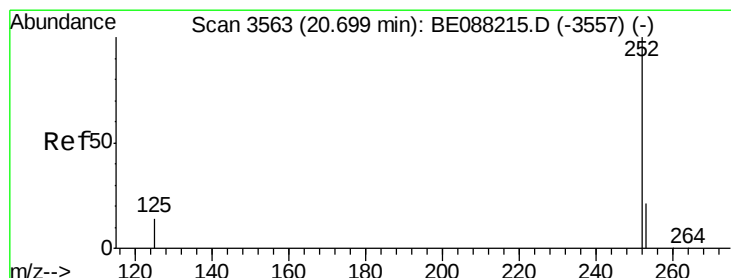
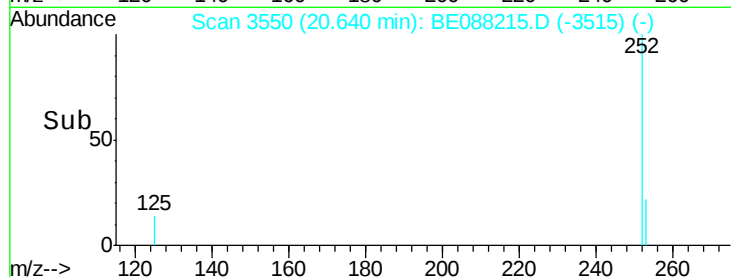
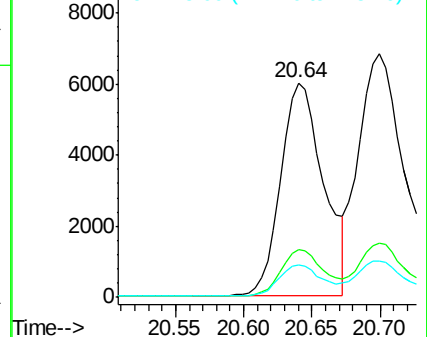
252 100

253 22.4 17.9 26.9

125 15.2 12.2 18.2



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 1.05 ng

RT: 20.70 min Scan# 3563

Delta R.T. 0.00 min

Lab File: BE088215.D

Acq: 24 Oct 2014 16:34

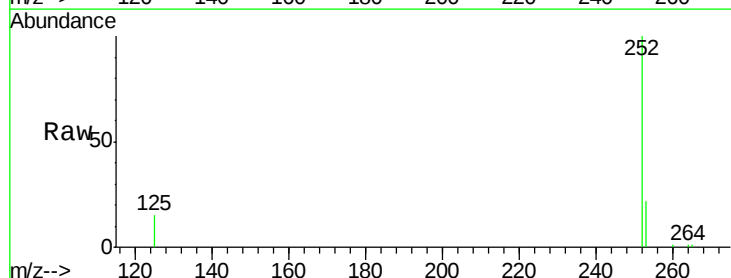
Tgt Ion:252 Resp: 19701

Ion Ratio Lower Upper

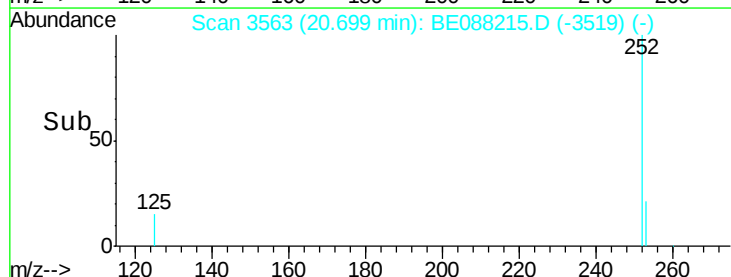
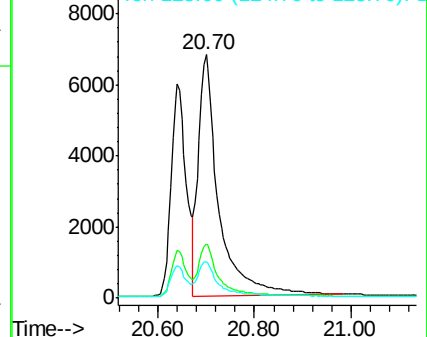
252 100

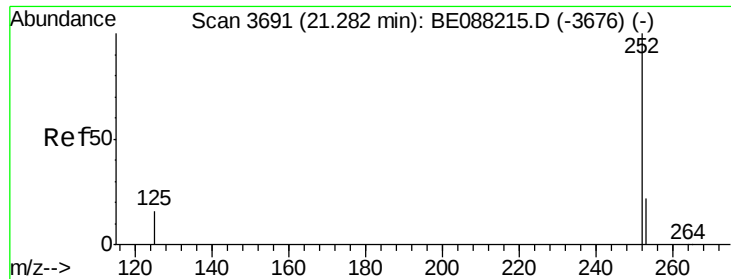
253 22.0 17.6 26.4

125 15.1 12.1 18.1



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

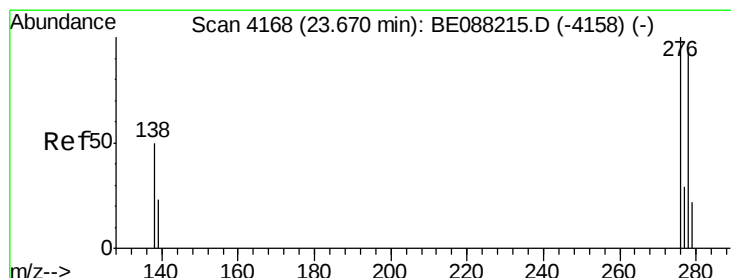
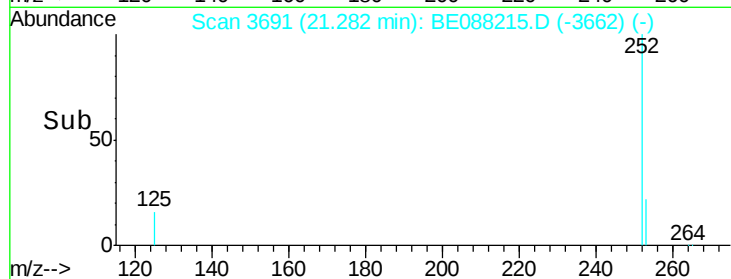
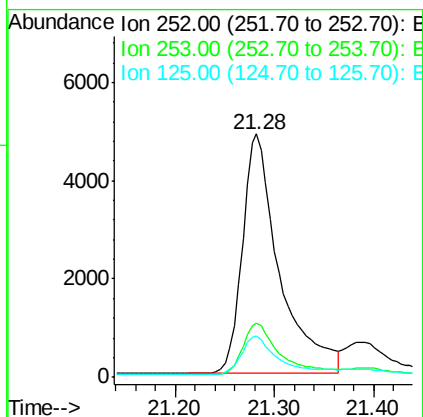
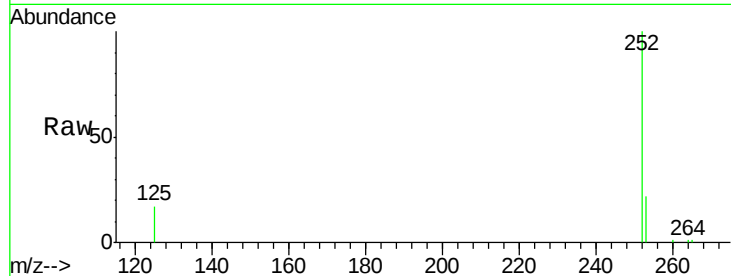




#25
Benzo(a)pyrene
Concen: 1.09 ng
RT: 21.28 min Scan# 3691
Delta R.T. 0.00 min
Lab File: BE088215.D
Acq: 24 Oct 2014 16:34

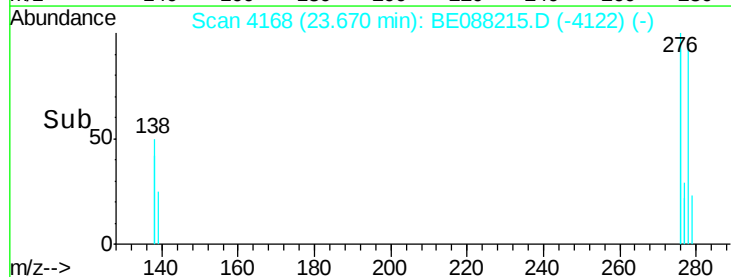
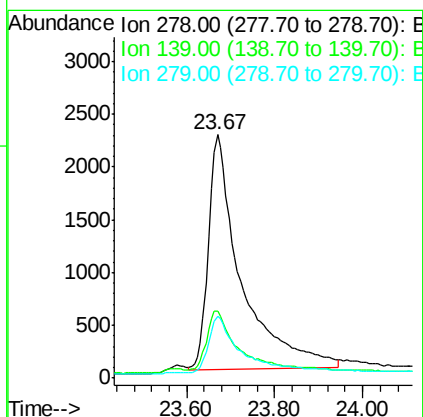
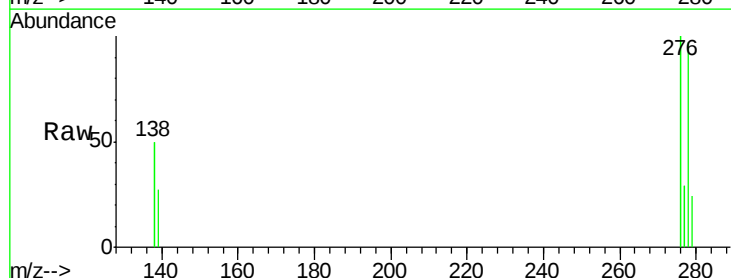
Instrument :
BNA_E
ClientSampleId :
SSTDICCC001

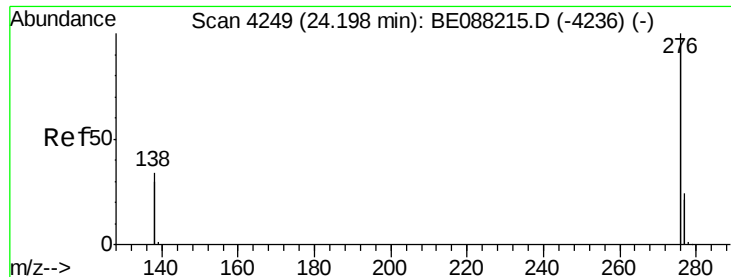
Tgt Ion: 252 Resp: 12726
Ion Ratio Lower Upper
252 100
253 22.3 17.8 26.8
125 16.9 13.5 20.3



#26
Dibenzo(a,h)anthracene
Concen: 1.04 ng
RT: 23.67 min Scan# 4168
Delta R.T. 0.00 min
Lab File: BE088215.D
Acq: 24 Oct 2014 16:34

Tgt Ion: 278 Resp: 11510
Ion Ratio Lower Upper
278 100
139 27.6 22.1 33.1
279 25.2 20.2 30.2

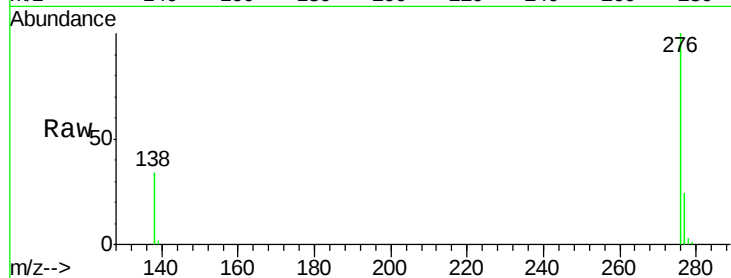




#27
 Benzo(g,h,i)perylene
 Concen: 1.03 ng
 RT: 24.20 min Scan# 4249
 Delta R.T. 0.00 min
 Lab File: BE088215.D
 Acq: 24 Oct 2014 16:34

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC001

Tgt Ion: 276 Resp: 59740
 Ion Ratio Lower Upper
 276 100
 277 24.3 19.4 29.2
 138 34.1 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

