

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088227.D
 Acq On : 25 Oct 2014 1:40
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 DFTPP

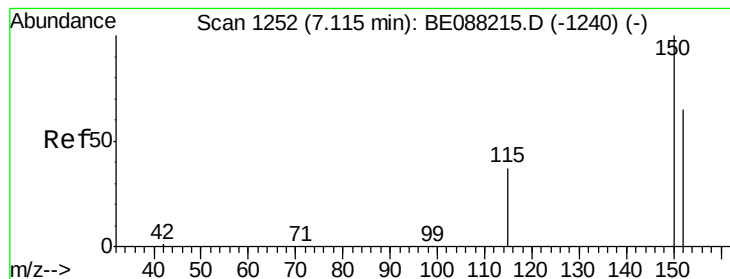
Quant Time: Oct 27 13:46:04 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	31735	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	123744	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	59059	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	111341	5.00	ng	0.00
16) Chrysene-d12	18.35	240	53635	5.00	ng	0.00
22) Perylene-d12	21.40	264	43848	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	8649	1.05	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	17327	1.05	ng	0.00
18) Terphenyl-d14	16.11	244	10266	1.17	ng	0.00

Target Compounds					Qvalue	
2) 1,4-Dioxane	2.34	88	4641	1.05	ng	97
5) Naphthalene	8.70	128	26821	1.07	ng	97
6) 2-Methylnaphthalene	9.55	142	16548	1.09	ng	99
9) Acenaphthylene	10.64	152	96287	1.09	ng	100
10) Acenaphthene	10.86	154	14908	1.07	ng	99
11) Fluorene	11.52	166	16042	1.13	ng	99
13) Phenanthrene	12.97	178	110772	1.03	ng	95
14) Anthracene	13.06	178	84997	1.07	ng	99
15) Fluoranthene	15.21	202	16655	1.02	ng	99
17) Pyrene	15.66	202	18203	1.24	ng	100
19) Benzo(a)anthracene	18.33	228	47213	1.12	ng	99
20) Chrysene	18.40	228	52577	1.10	ng	100
21) Indeno(1,2,3-cd)pyrene	23.58	276	25989	0.74	ng	# 73
23) Benzo(b)fluoranthene	20.64	252	8304	1.03	ng	100
24) Benzo(k)fluoranthene	20.70	252	12842	1.13	ng	99
25) Benzo(a)pyrene	21.28	252	8317	1.05	ng	99
26) Dibenzo(a,h)anthracene	23.67	278	8142	1.10	ng	99
27) Benzo(g,h,i)perylene	24.20	276	41922	1.19	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

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ClientSampleId :

DFTPP

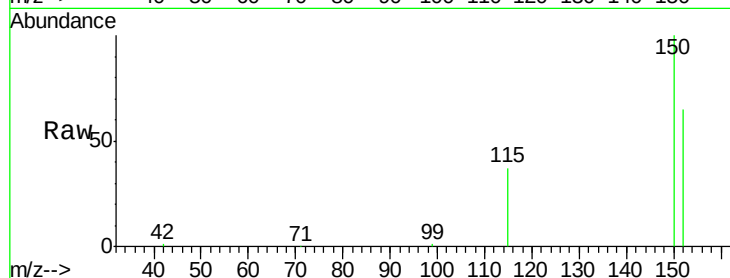
Tgt Ion: 152 Resp: 31735

Ion Ratio Lower Upper

152 100

150 153.2 123.2 184.8

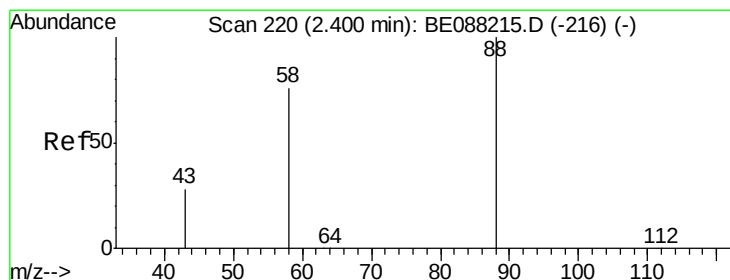
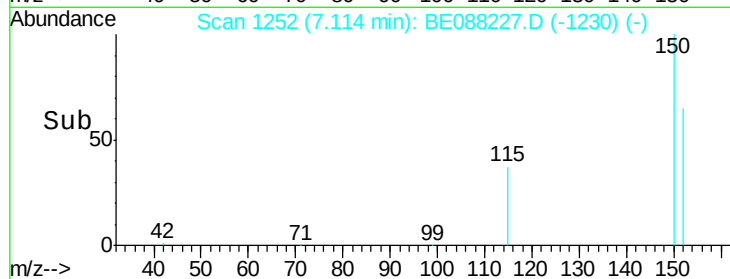
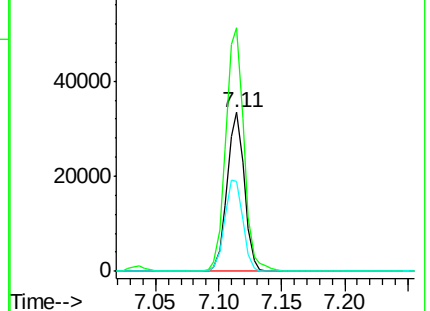
115 56.5 45.3 67.9



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: 2.34 min Scan# 207

Delta R.T. -0.06 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

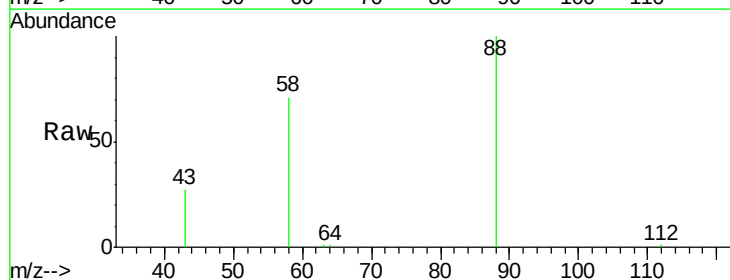
Tgt Ion: 88 Resp: 4641

Ion Ratio Lower Upper

88 100

58 76.6 59.0 88.4

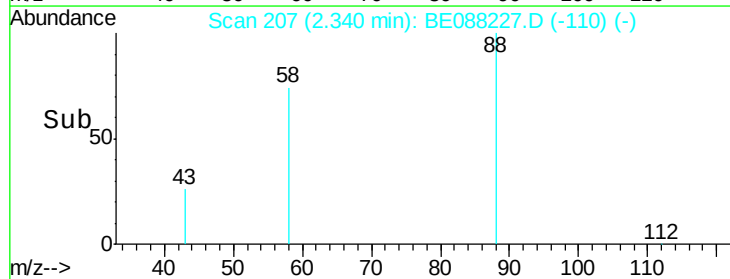
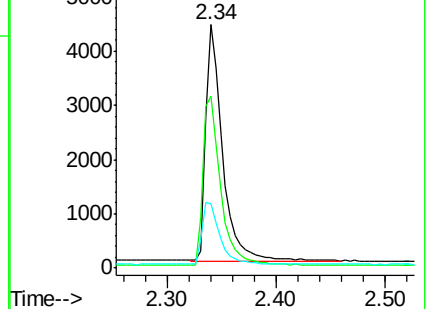
43 29.1 21.9 32.9

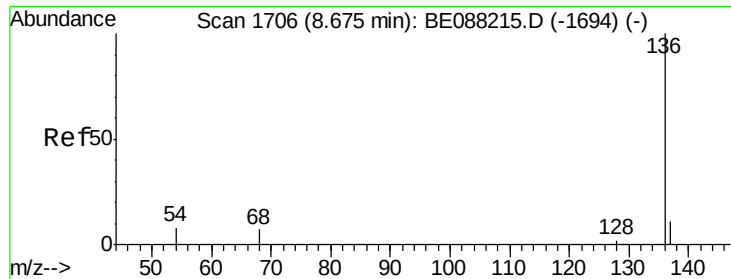


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

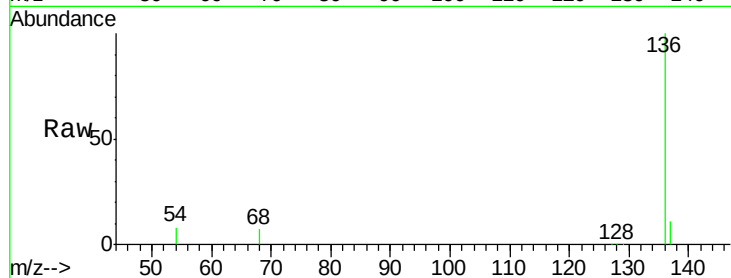




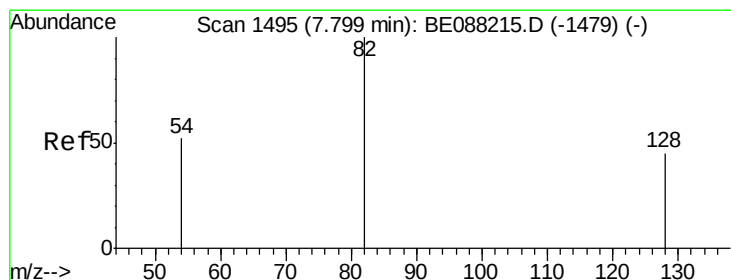
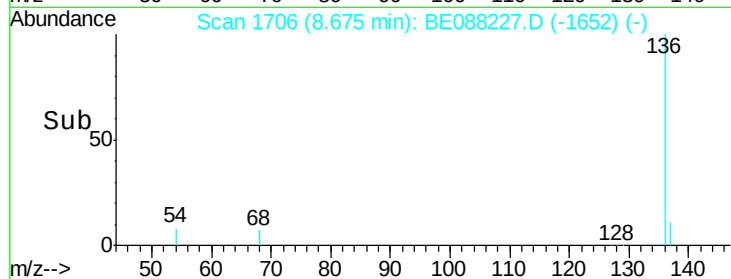
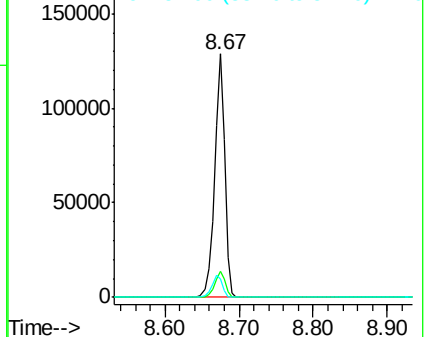
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.67 min Scan# 1706
Delta R.T. -0.00 min
Lab File: BE088227.D
Acq: 25 Oct 2014 1:40

Instrument :
BNA_E
ClientSampleId :
DFTPP

Tgt Ion: 136 Resp: 123744
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 7.6 6.1 9.1

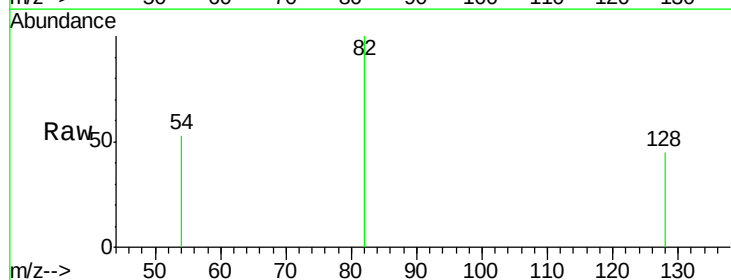


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

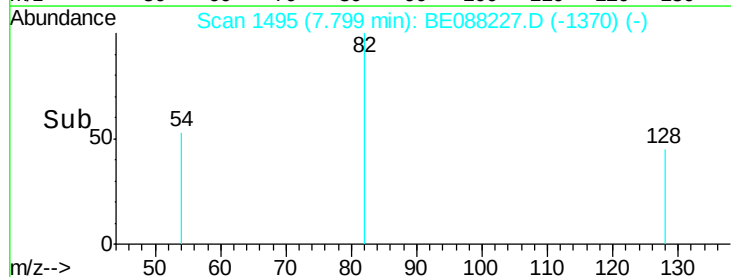
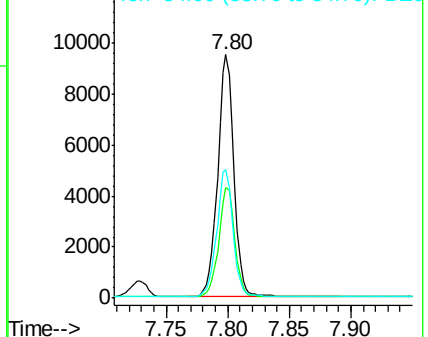


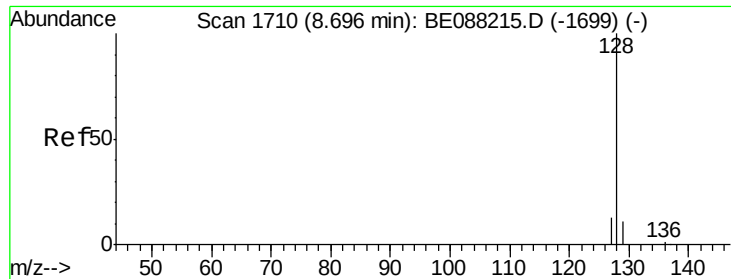
#4
Nitrobenzene-d5
Concen: 1.05 ng
RT: 7.80 min Scan# 1495
Delta R.T. 0.00 min
Lab File: BE088227.D
Acq: 25 Oct 2014 1:40

Tgt Ion: 82 Resp: 8649
Ion Ratio Lower Upper
82 100
128 45.4 36.2 54.2
54 52.8 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: 1.07 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

Instrument :

BNA_E

ClientSampleId :

DFTPP

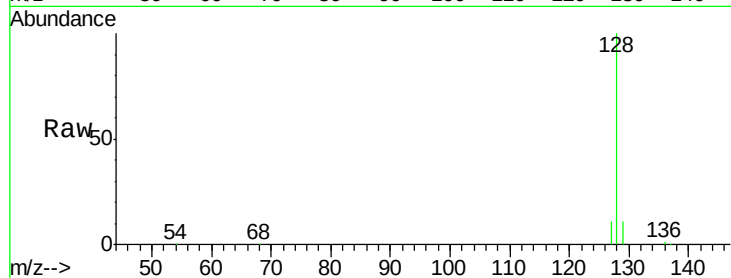
Tgt Ion:128 Resp: 26821

Ion Ratio Lower Upper

128 100

129 11.4 8.6 12.8

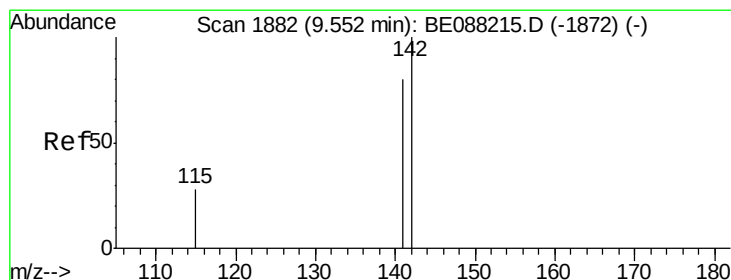
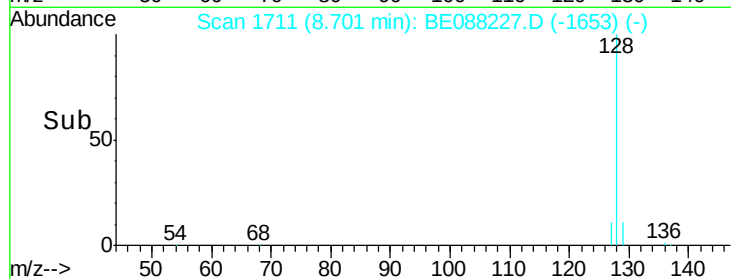
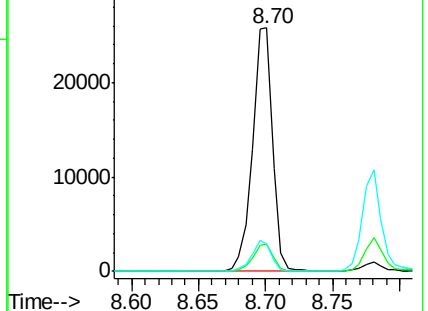
127 11.5 10.4 15.6



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: 1.09 ng

RT: 9.55 min Scan# 1882

Delta R.T. -0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

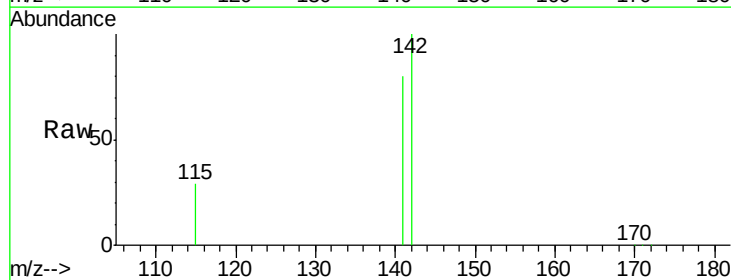
Tgt Ion:142 Resp: 16548

Ion Ratio Lower Upper

142 100

141 79.6 63.7 95.5

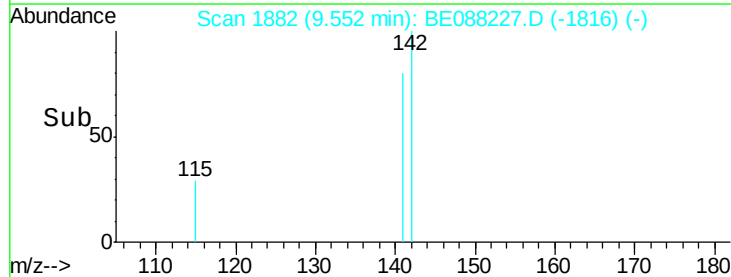
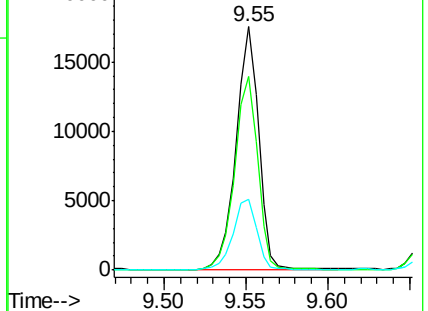
115 29.3 22.6 34.0

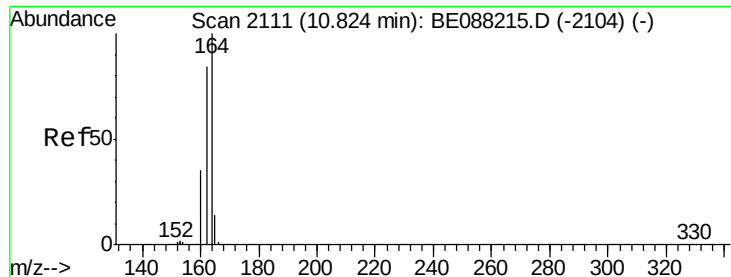


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.82 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

Instrument :

BNA_E

ClientSampleId :

DFTPP

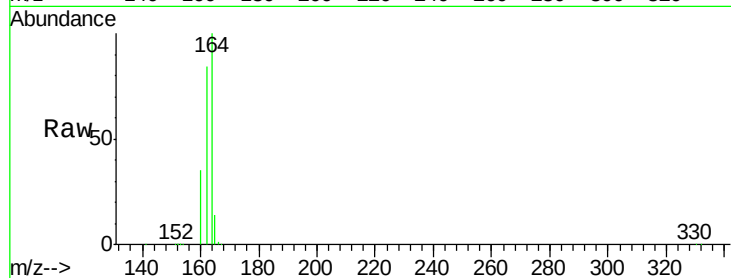
Tgt Ion:164 Resp: 59059

Ion Ratio Lower Upper

164 100

162 83.8 67.4 101.0

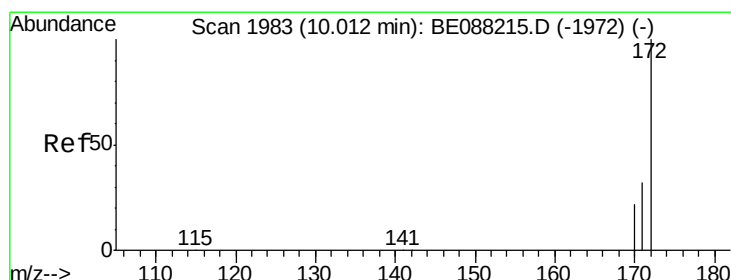
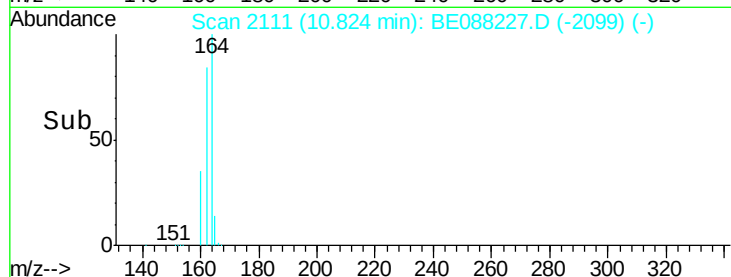
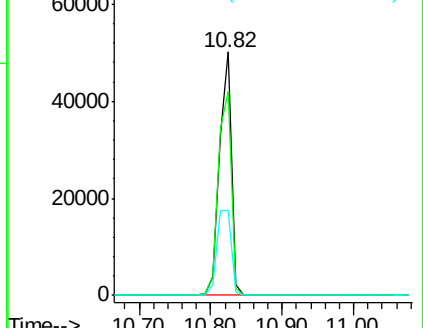
160 34.6 27.7 41.5



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: 1.05 ng

RT: 10.01 min Scan# 1983

Delta R.T. -0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

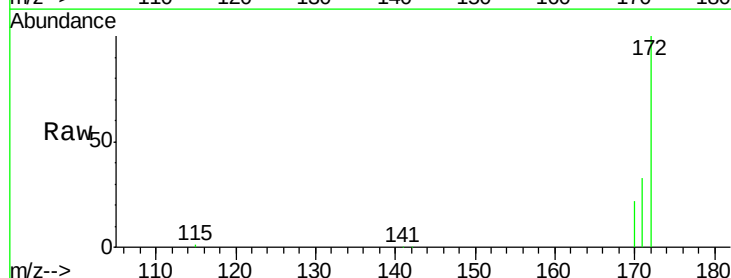
Tgt Ion:172 Resp: 17327

Ion Ratio Lower Upper

172 100

171 33.0 25.8 38.6

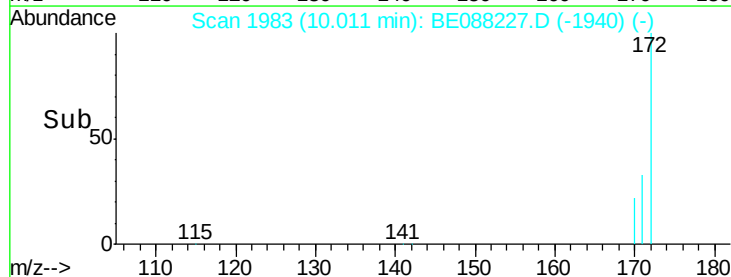
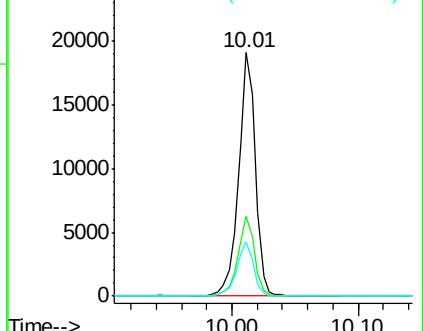
170 22.2 17.4 26.0

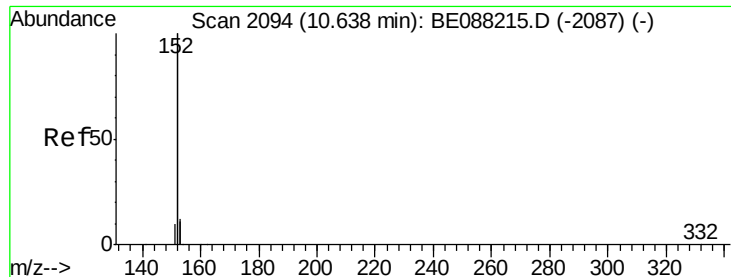


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.09 ng

RT: 10.64 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

Instrument :

BNA_E

ClientSampleId :

DFTPP

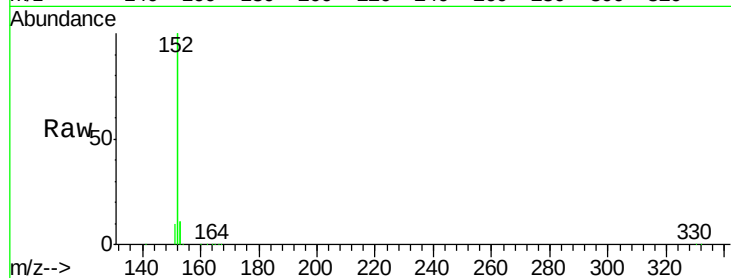
Tgt Ion:152 Resp: 96287

Ion Ratio Lower Upper

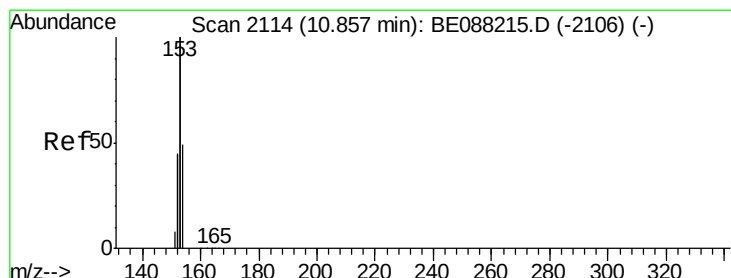
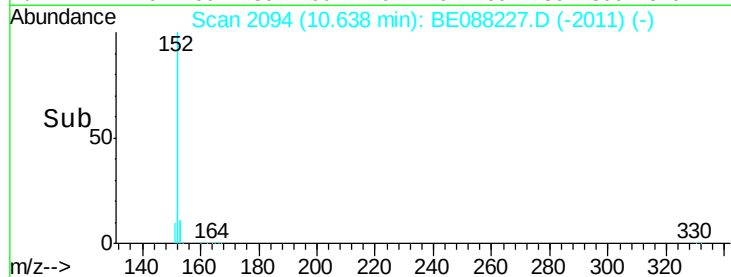
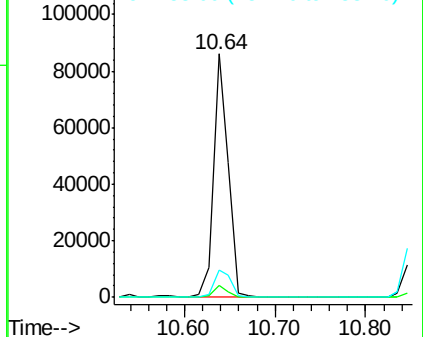
152 100

151 4.6 3.7 5.5

153 13.0 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: 1.07 ng

RT: 10.86 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

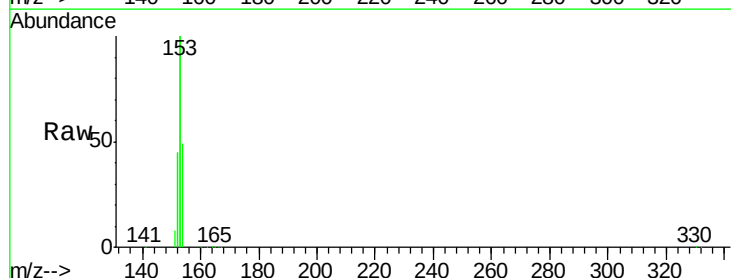
Tgt Ion:154 Resp: 14908

Ion Ratio Lower Upper

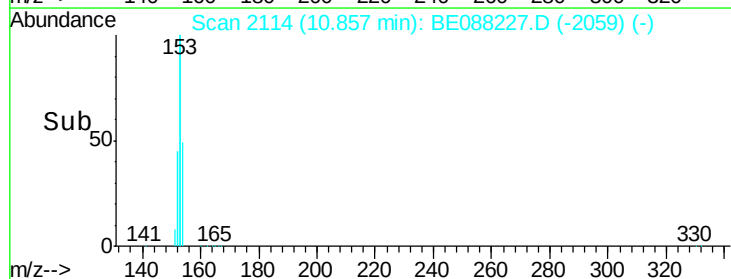
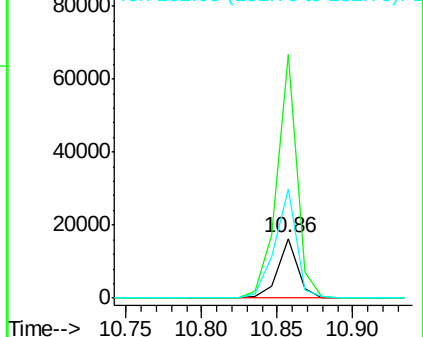
154 100

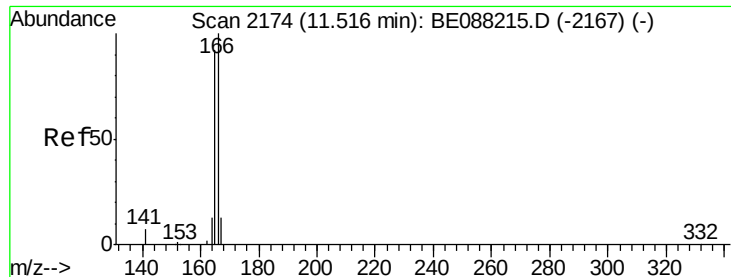
153 410.6 326.0 489.0

152 195.3 155.6 233.4



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: 1.13 ng

RT: 11.52 min Scan# 2174

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

Instrument :

BNA_E

ClientSampleId :

DFTPP

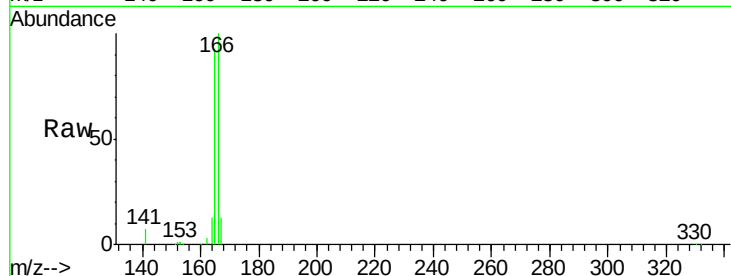
Tgt Ion:166 Resp: 16042

Ion Ratio Lower Upper

166 100

165 90.6 71.8 107.6

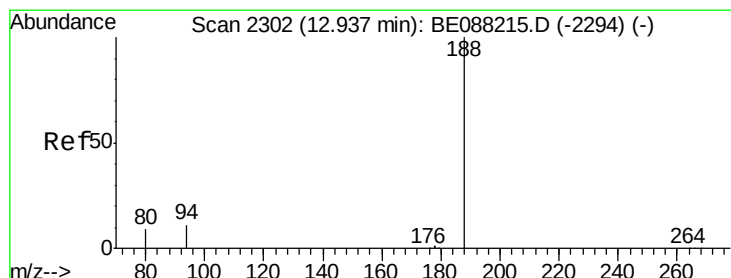
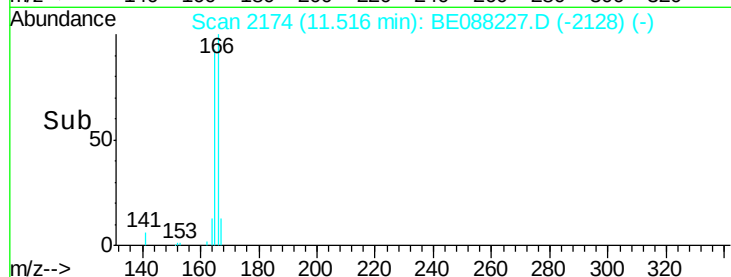
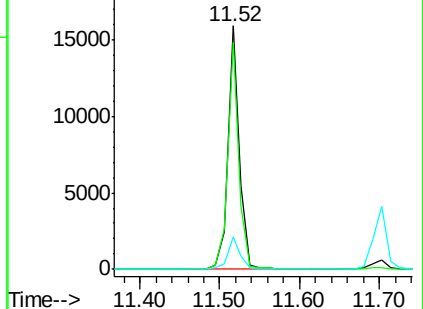
167 13.5 10.7 16.1



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: 12.93 min Scan# 2301

Delta R.T. -0.01 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

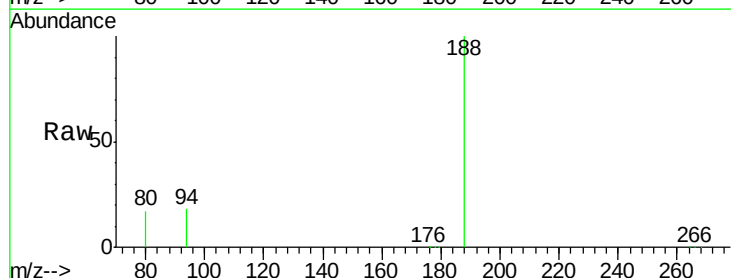
Tgt Ion:188 Resp: 111341

Ion Ratio Lower Upper

188 100

94 18.1 8.5 12.7#

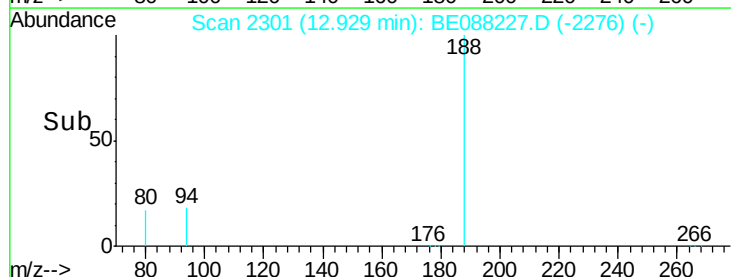
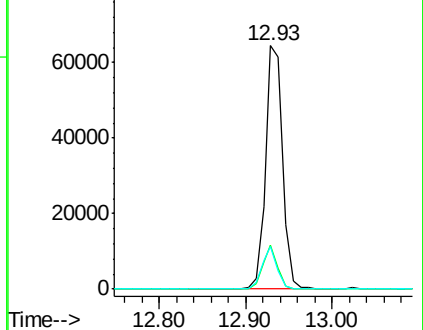
80 17.3 7.4 11.0#

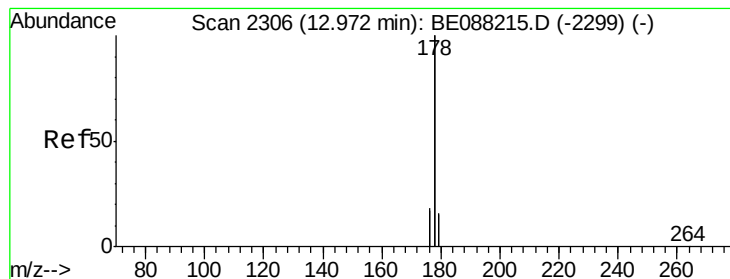


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 1.03 ng

RT: 12.97 min Scan# 2306

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

Instrument :

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ClientSampleId :

DFTPP

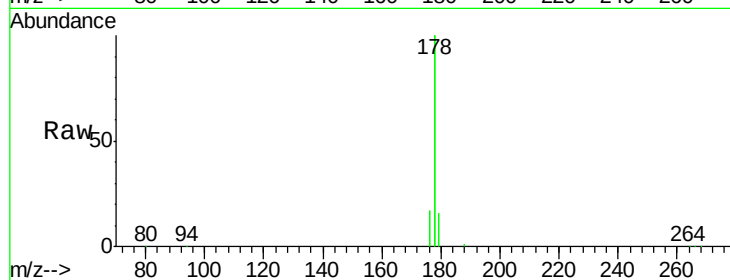
Tgt Ion:178 Resp: 110772

Ion Ratio Lower Upper

178 100

176 15.4 14.0 21.0

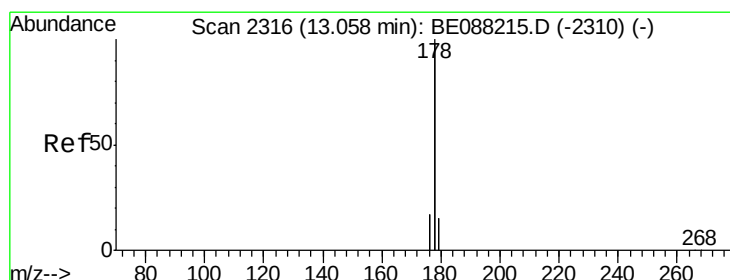
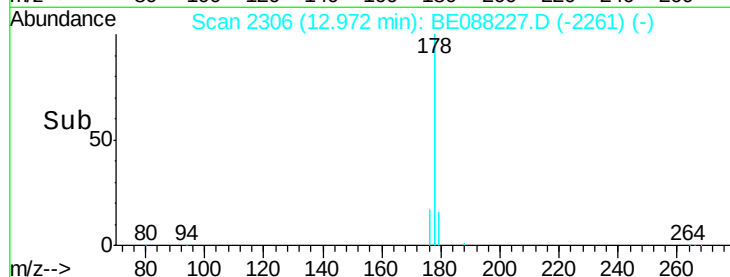
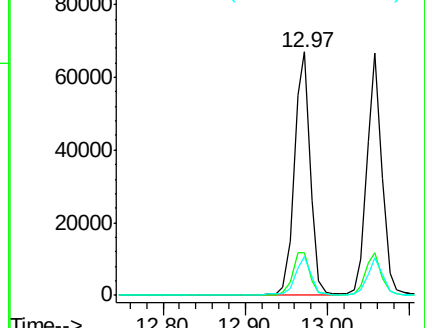
179 16.8 11.8 17.6



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: 1.07 ng

RT: 13.06 min Scan# 2316

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

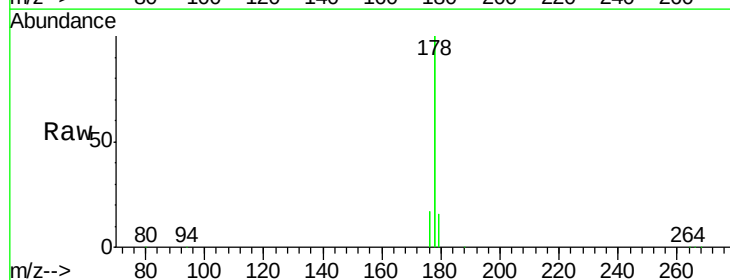
Tgt Ion:178 Resp: 84997

Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

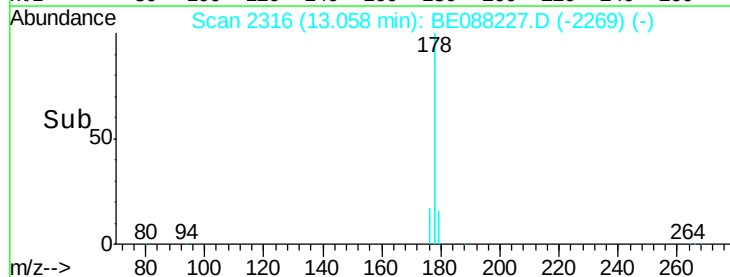
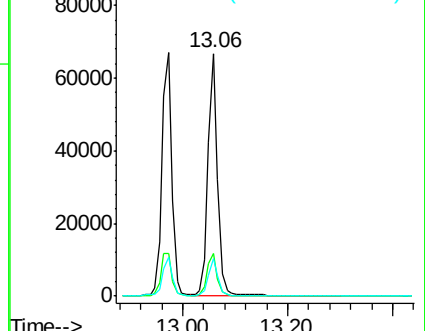
179 16.2 12.3 18.5

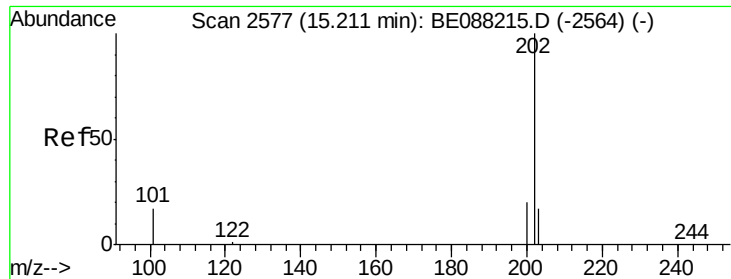


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

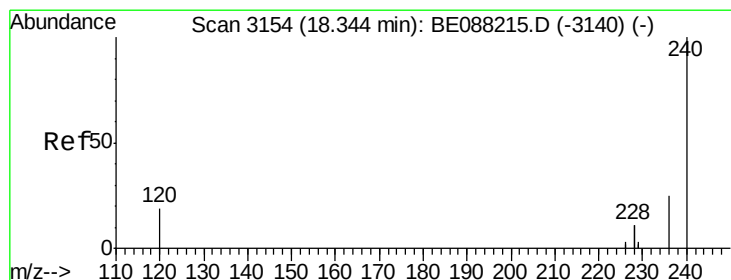
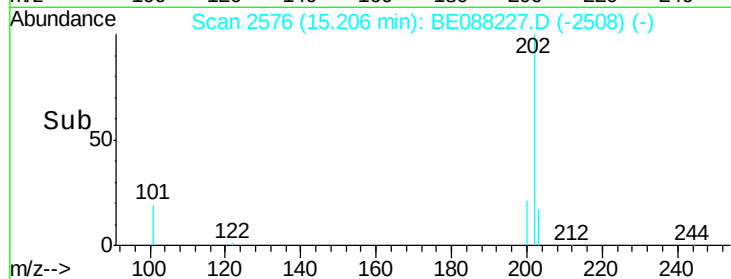
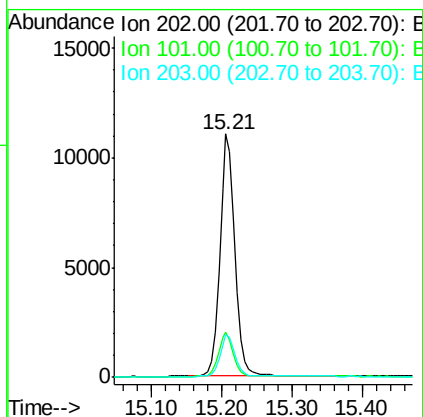
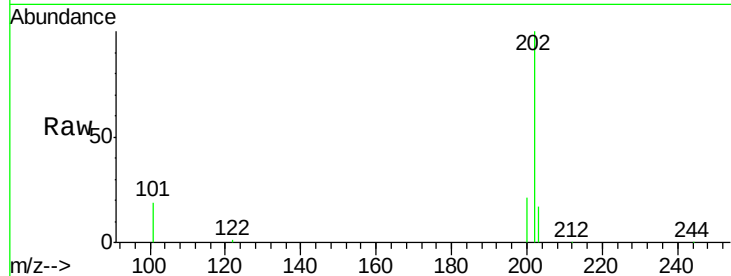




#15
 Fluoranthene
 Concen: 1.02 ng
 RT: 15.21 min Scan# 2576
 Delta R.T. -0.00 min
 Lab File: BE088227.D
 Acq: 25 Oct 2014 1:40

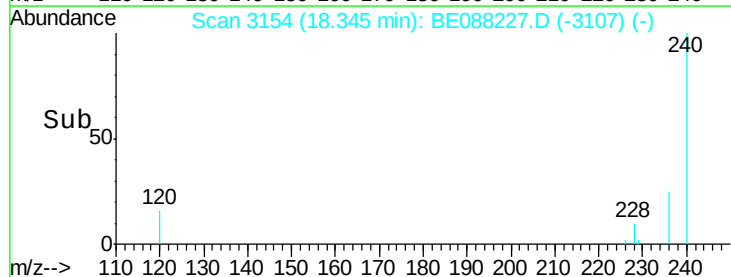
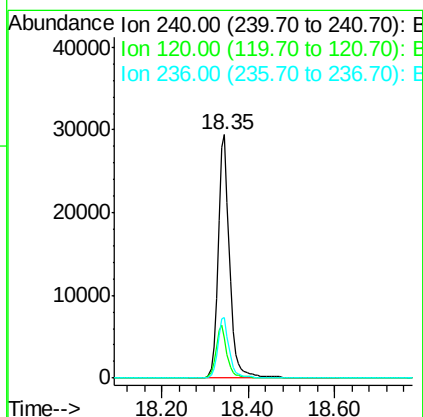
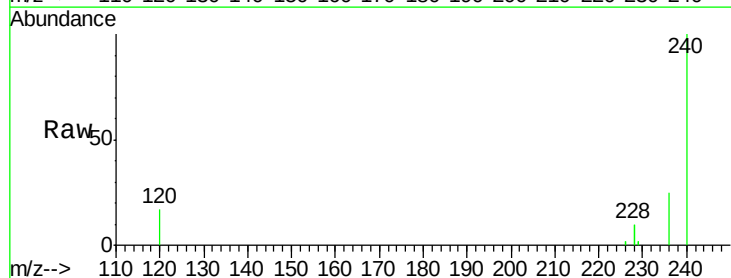
Instrument :
 BNA_E
 ClientSampleId :
 DFTPP

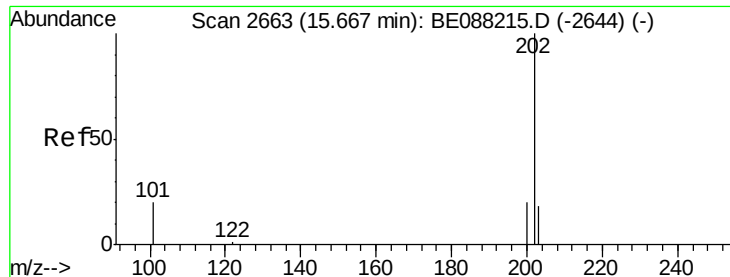
Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.8	14.4	21.6
203	17.1	13.4	20.2



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3154
 Delta R.T. 0.00 min
 Lab File: BE088227.D
 Acq: 25 Oct 2014 1:40

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.6	15.1	22.7
236	24.7	20.1	30.1

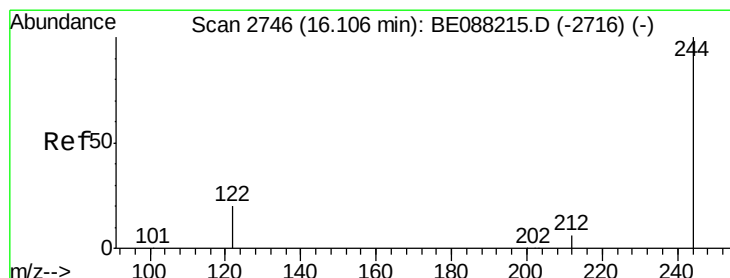
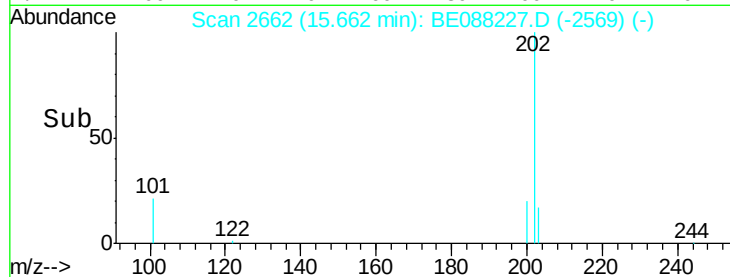
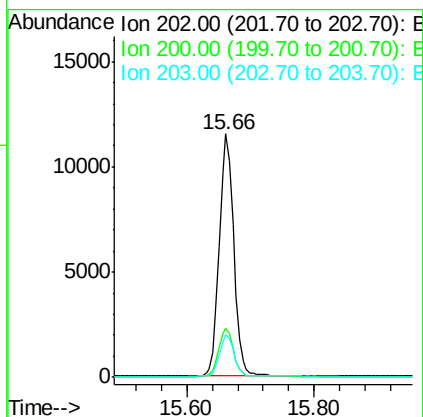
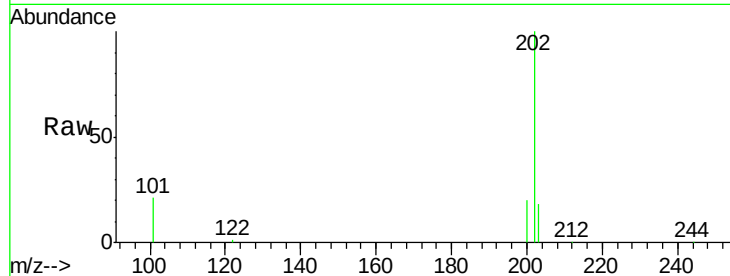




#17
 Pyrene
 Concen: 1.24 ng
 RT: 15.66 min Scan# 2662
 Delta R.T. -0.00 min
 Lab File: BE088227.D
 Acq: 25 Oct 2014 1:40

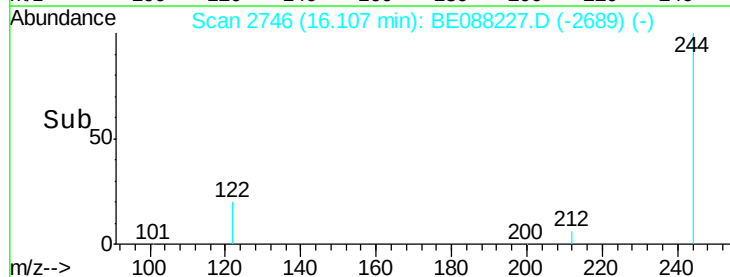
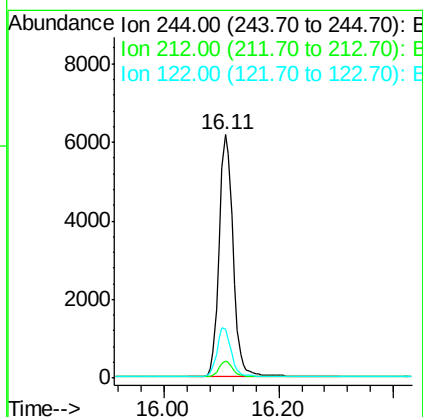
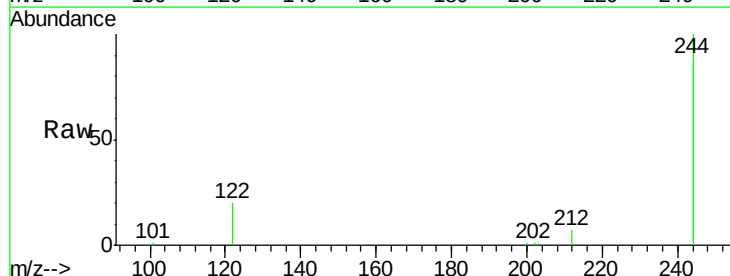
Instrument :
 BNA_E
 ClientSampleId :
 DFTPP

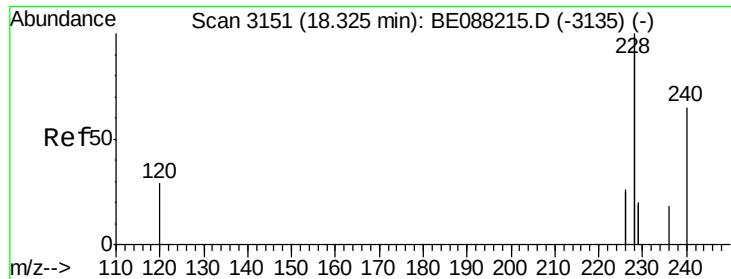
Tgt Ion: 202 Resp: 18203
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.2 24.2
 203 17.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 1.17 ng
 RT: 16.11 min Scan# 2746
 Delta R.T. 0.00 min
 Lab File: BE088227.D
 Acq: 25 Oct 2014 1:40

Tgt Ion: 244 Resp: 10266
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.4 8.2
 122 20.4 16.7 25.1





#19

Benzo(a)anthracene

Concen: 1.12 ng

RT: 18.33 min Scan# 3151

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

Instrument :

BNA_E

ClientSampleId :

DFTPP

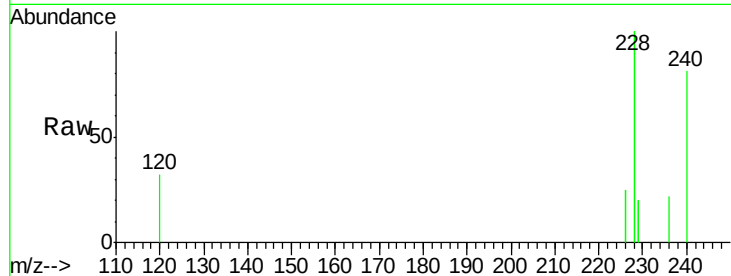
Tgt Ion:228 Resp: 47213

Ion Ratio Lower Upper

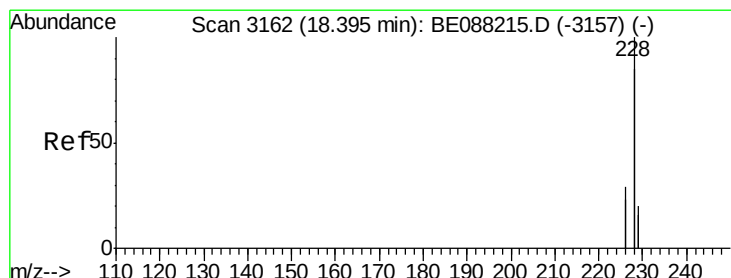
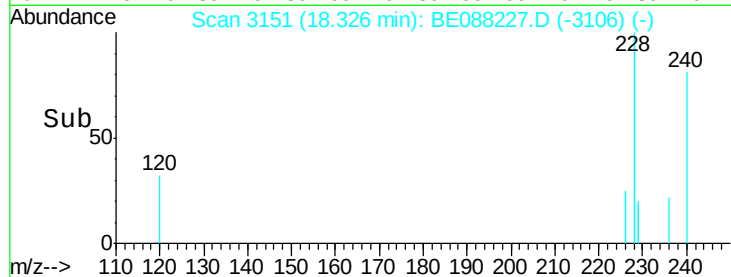
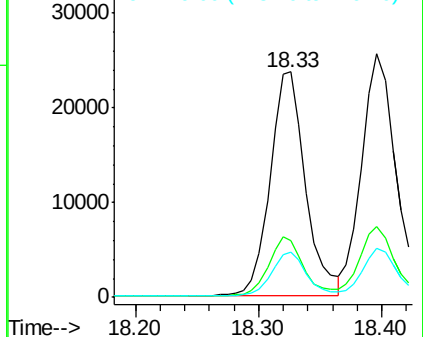
228 100

226 25.1 20.5 30.7

229 20.2 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: 1.10 ng

RT: 18.40 min Scan# 3162

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

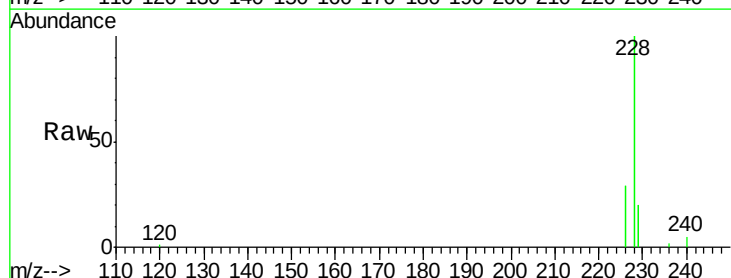
Tgt Ion:228 Resp: 52577

Ion Ratio Lower Upper

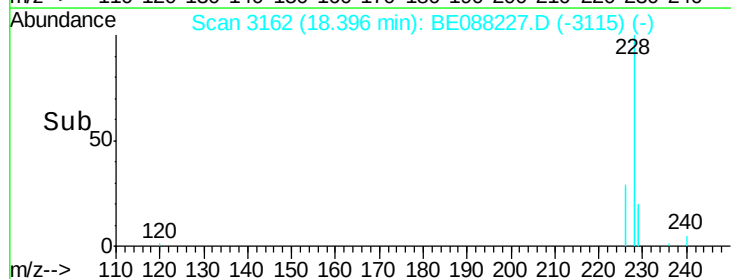
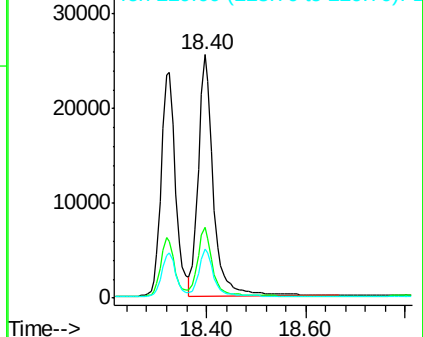
228 100

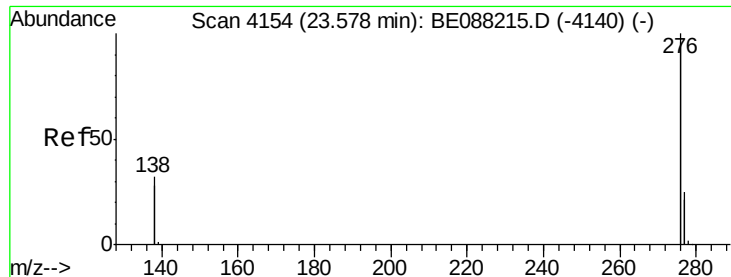
226 29.2 23.3 34.9

229 19.9 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: 0.74 ng

RT: 23.58 min Scan# 4154

Delta R.T. 0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

Instrument :

BNA_E

ClientSampleId :

DFTPP

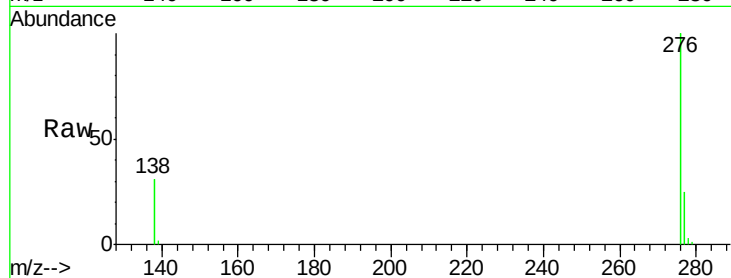
Tgt Ion: 276 Resp: 25989

Ion Ratio Lower Upper

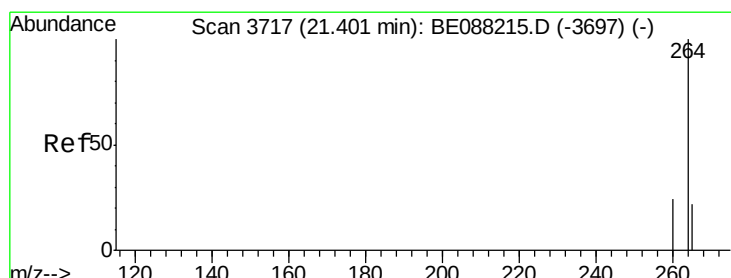
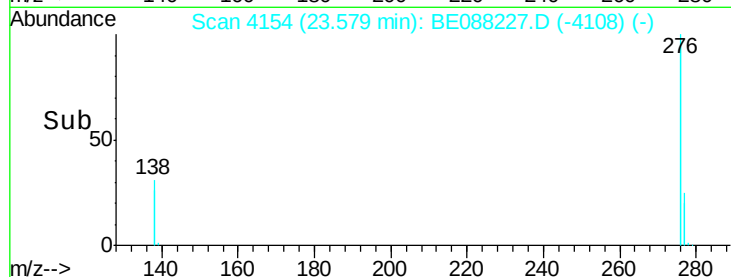
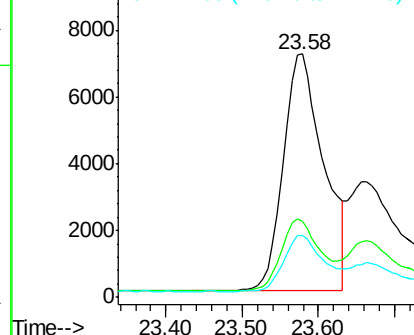
276 100

138 29.9 13.9 20.9#

277 23.5 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# 3716

Delta R.T. -0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

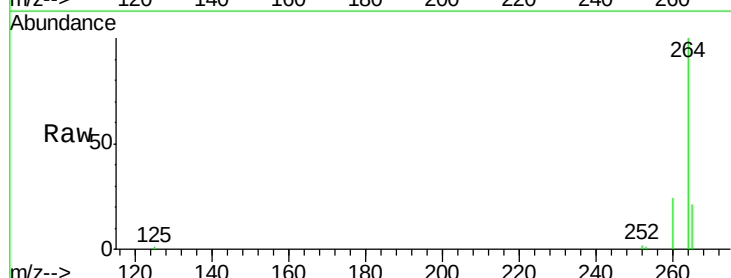
Tgt Ion: 264 Resp: 43848

Ion Ratio Lower Upper

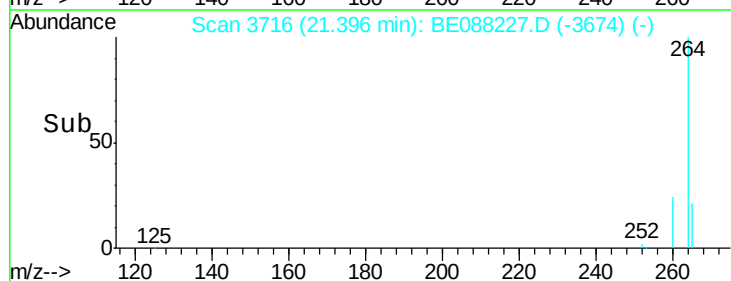
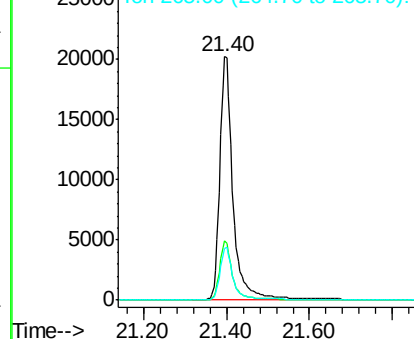
264 100

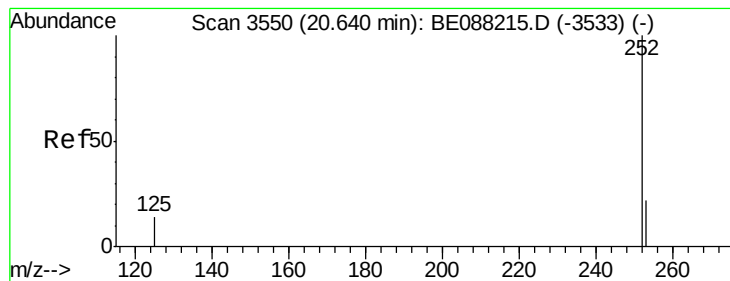
260 24.1 19.0 28.4

265 21.0 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: 1.03 ng

RT: 20.64 min Scan# 3550

Delta R.T. -0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

Instrument :

BNA_E

ClientSampleId :

DFTPP

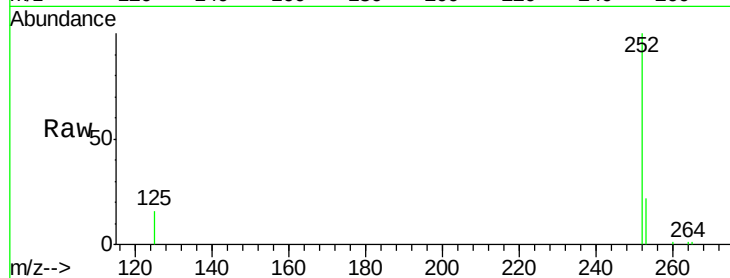
Tgt Ion: 252 Resp: 8304

Ion Ratio Lower Upper

252 100

253 22.5 17.9 26.9

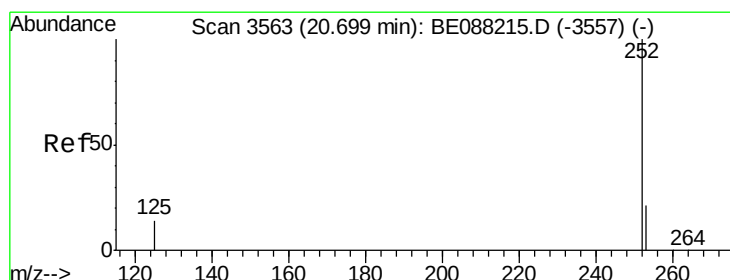
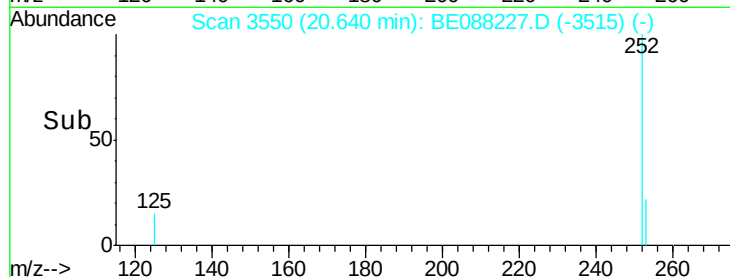
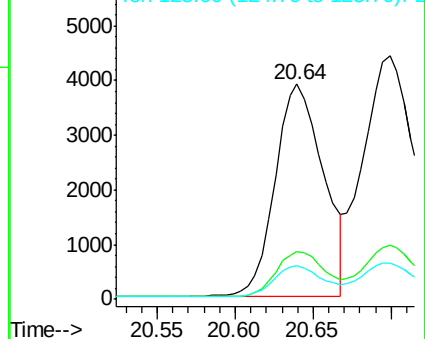
125 15.6 12.2 18.2



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: 1.13 ng

RT: 20.70 min Scan# 3563

Delta R.T. -0.00 min

Lab File: BE088227.D

Acq: 25 Oct 2014 1:40

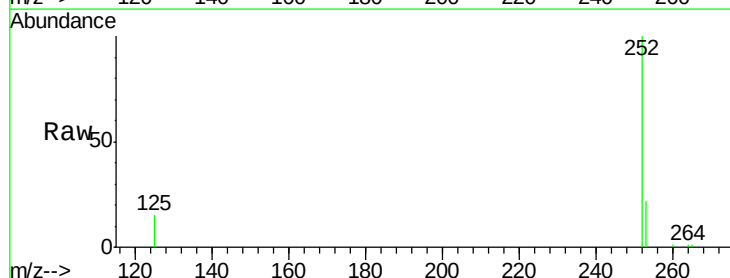
Tgt Ion: 252 Resp: 12842

Ion Ratio Lower Upper

252 100

253 22.4 17.6 26.4

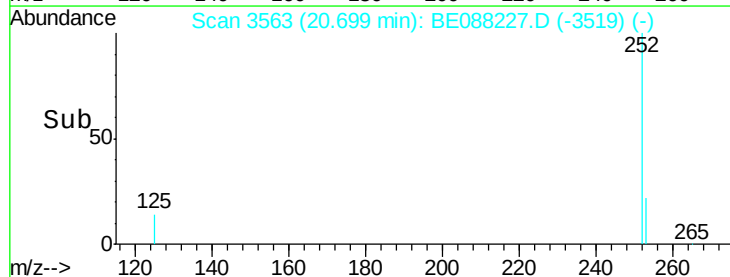
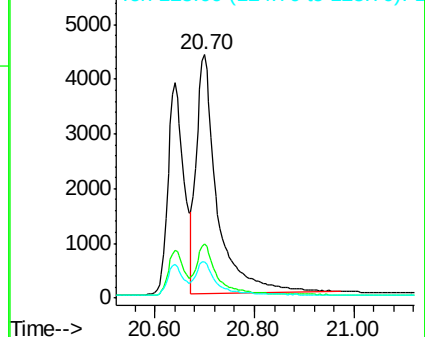
125 15.0 12.1 18.1

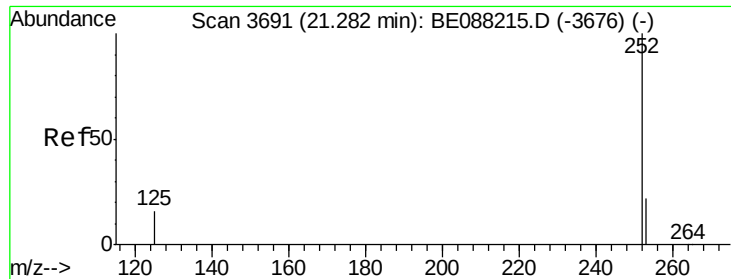


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

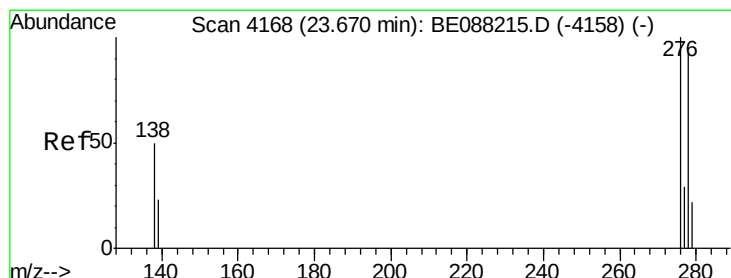
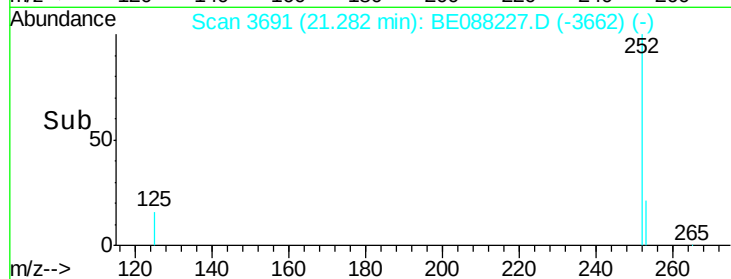
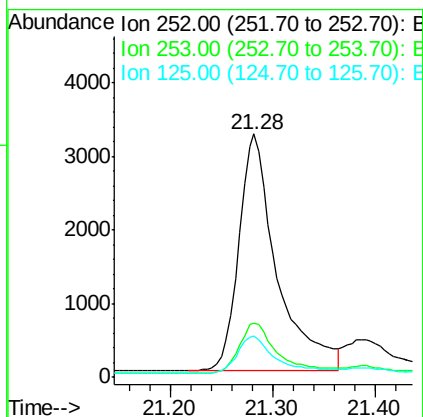
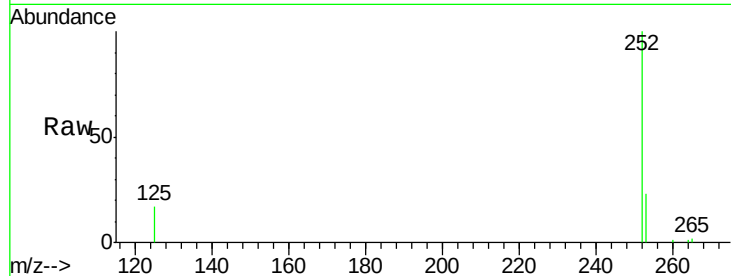




#25
Benzo(a)pyrene
Concen: 1.05 ng
RT: 21.28 min Scan# 3691
Delta R.T. -0.00 min
Lab File: BE088227.D
Acq: 25 Oct 2014 1:40

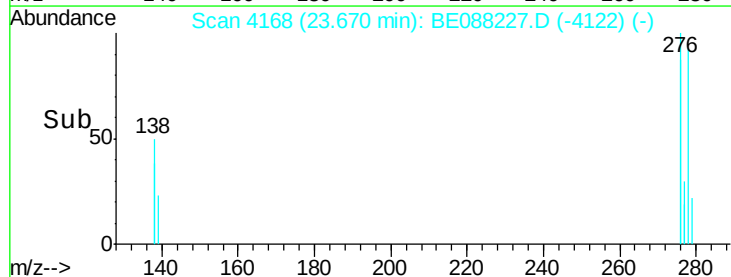
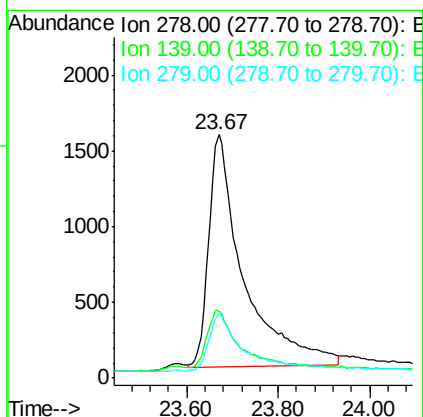
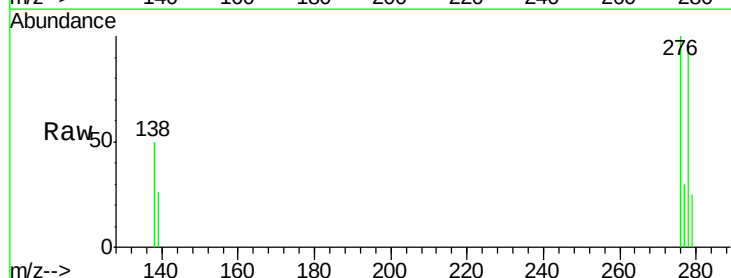
Instrument :
BNA_E
ClientSampleId :
DFTPP

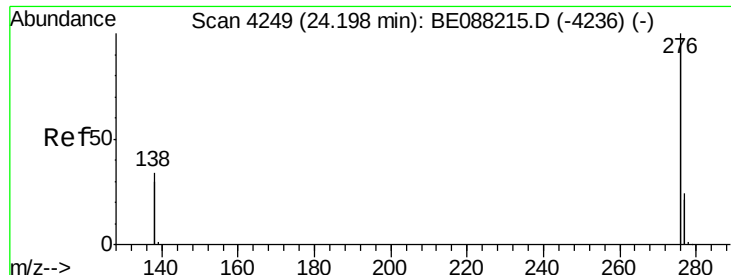
Tgt Ion: 252 Resp: 8317
Ion Ratio Lower Upper
252 100
253 22.5 17.8 26.8
125 17.2 13.5 20.3



#26
Dibenzo(a,h)anthracene
Concen: 1.10 ng
RT: 23.67 min Scan# 4168
Delta R.T. 0.00 min
Lab File: BE088227.D
Acq: 25 Oct 2014 1:40

Tgt Ion: 278 Resp: 8142
Ion Ratio Lower Upper
278 100
139 27.4 22.1 33.1
279 26.4 20.2 30.2





#27

Benzo(g,h,i)perylene

Concen: 1.19 ng

RT: 24.20 min Scan# 4249

Delta R.T. 0.00 min

Lab File: BE088227.D

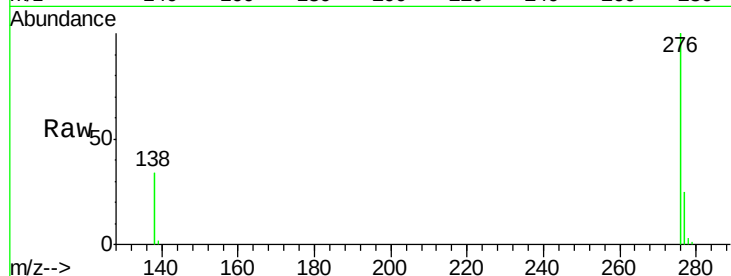
Acq: 25 Oct 2014 1:40

Instrument :

BNA_E

ClientSampleId :

DFTPP



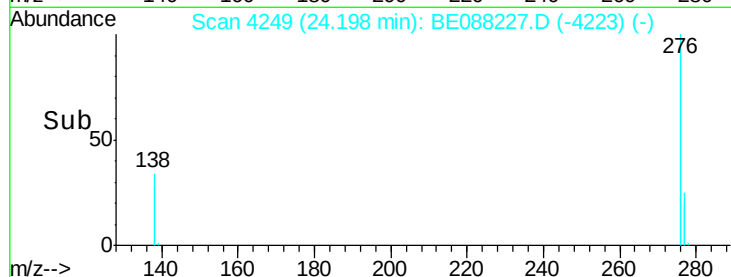
Tgt Ion: 276 Resp: 41922

Ion Ratio Lower Upper

276 100

277 25.0 19.4 29.2

138 34.0 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

