

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088428.D
 Acq On : 31 Oct 2014 18:06
 Operator : TP/JJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Quant Time: Nov 01 00:25:31 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:20:37 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	40825	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	155364	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	71361	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	133347	5.00	ng	0.00
16) Chrysene-d12	18.31	240	63956	5.00	ng	0.00
22) Perylene-d12	21.37	264	56190	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.77	82	60802	5.36	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	101427	5.00	ng	0.00
18) Terphenyl-d14	16.07	244	61223	5.20	ng	0.00

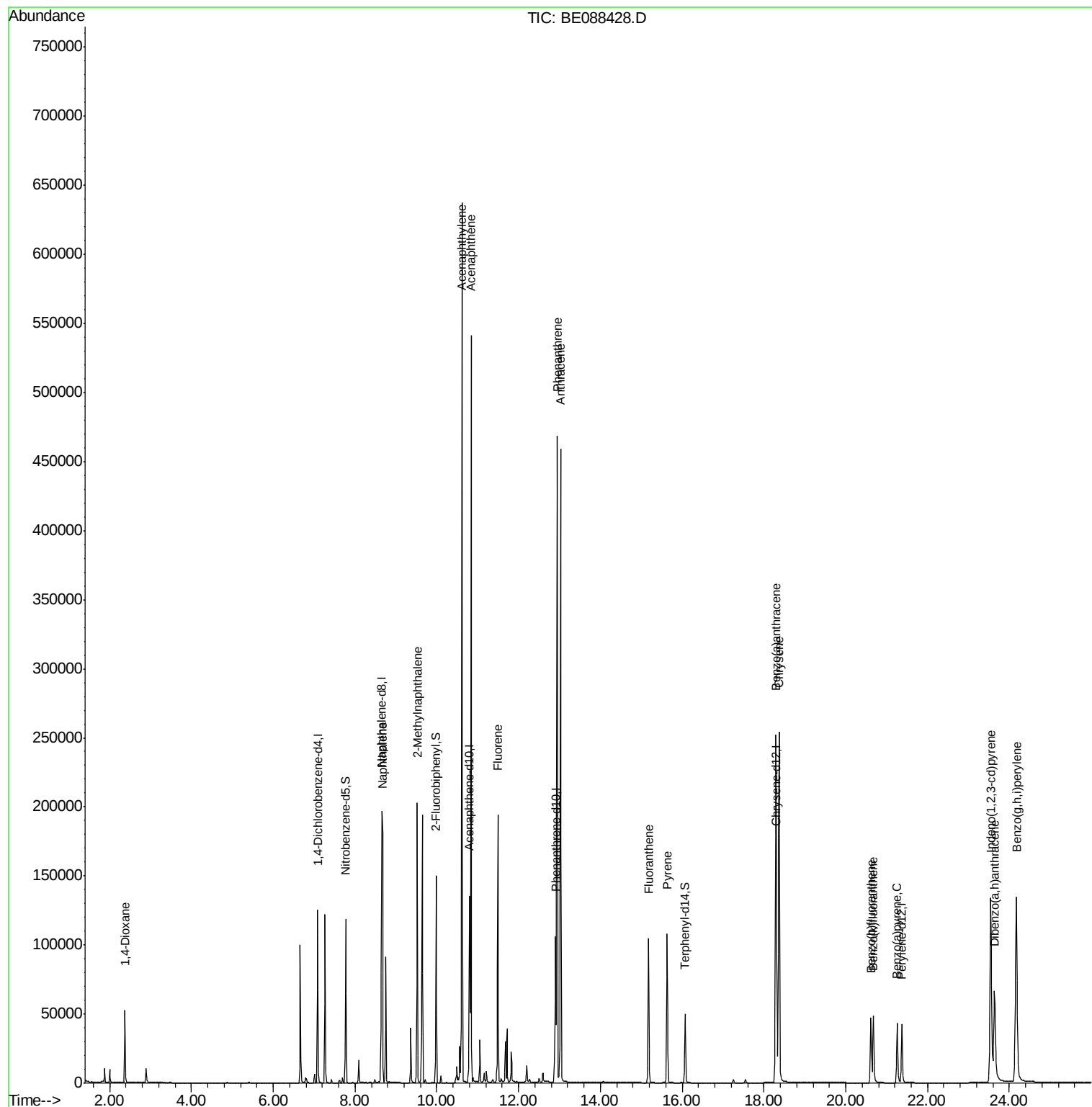
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.37	88	27470	5.14	ng	100
5) Naphthalene	8.67	128	159989	4.92	ng	100
6) 2-Methylnaphthalene	9.52	142	100933	5.01	ng	99
9) Acenaphthylene	10.62	152	563304	4.80	ng	99
10) Acenaphthene	10.84	154	83352	4.78	ng	97
11) Fluorene	11.49	166	90457	4.90	ng	99
13) Phenanthrene	12.95	178	626583	4.63	ng	99
14) Anthracene	13.03	178	483618	4.90	ng	99
15) Fluoranthene	15.18	202	102520	5.21	ng	100
17) Pyrene	15.63	202	107410	5.12	ng	100
19) Benzo(a)anthracene	18.29	228	309932	5.14	ng	99
20) Chrysene	18.37	228	302457	5.10	ng	97
21) Indeno(1,2,3-cd)pyrene	23.55	276	225233	4.00	ng	# 87
23) Benzo(b)fluoranthene	20.62	252	66064	5.39	ng	99
24) Benzo(k)fluoranthene	20.67	252	71418	5.25	ng	99
25) Benzo(a)pyrene	21.25	252	62992	5.35	ng	98
26) Dibenzo(a,h)anthracene	23.64	278	58115	5.31	ng	98
27) Benzo(g,h,i)perylene	24.17	276	258350	5.12	ng	97

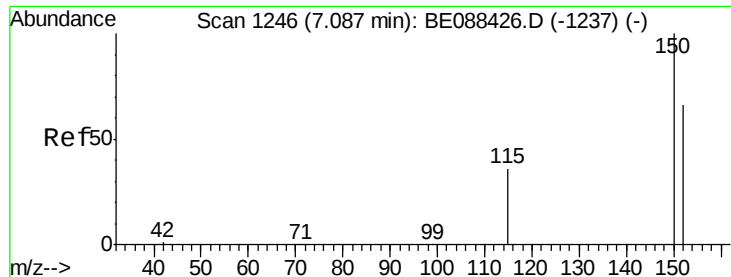
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

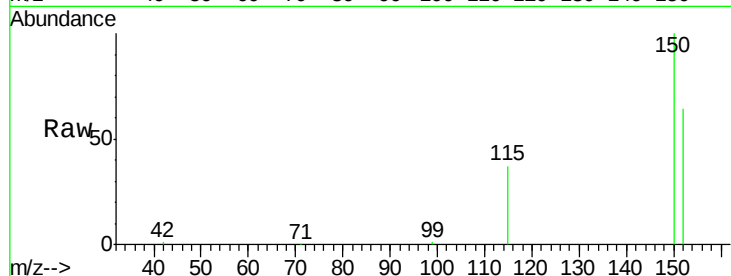
Tgt Ion:152 Resp: 40825

Ion Ratio Lower Upper

152 100

150 155.2 121.8 182.8

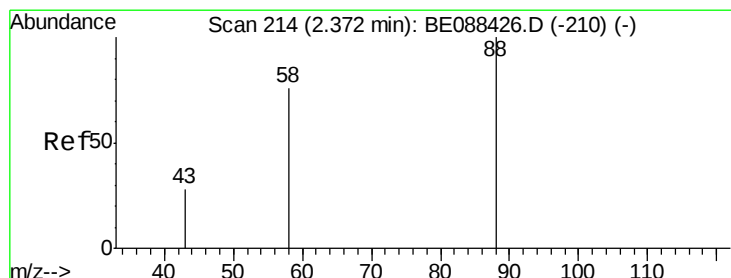
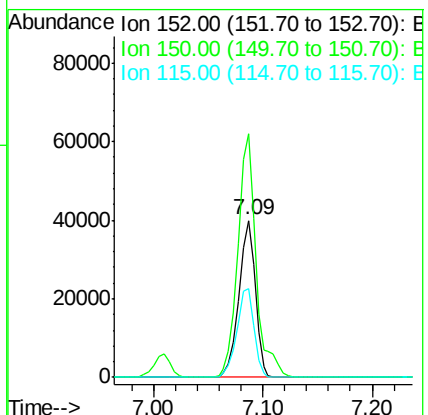
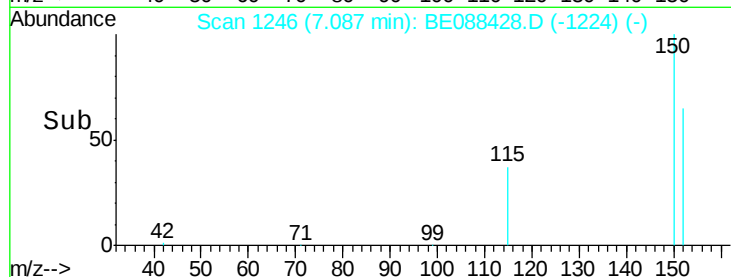
115 56.9 43.9 65.9



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: 5.14 ng

RT: 2.37 min Scan# 214

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

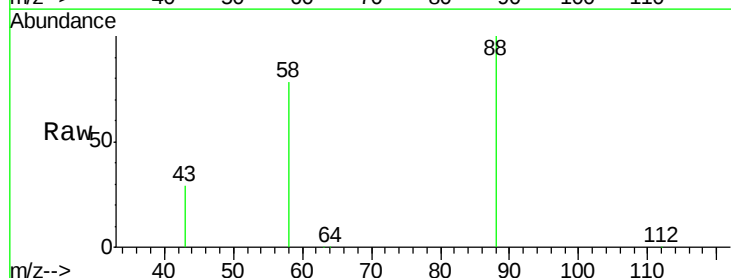
Tgt Ion: 88 Resp: 27470

Ion Ratio Lower Upper

88 100

58 74.2 59.1 88.7

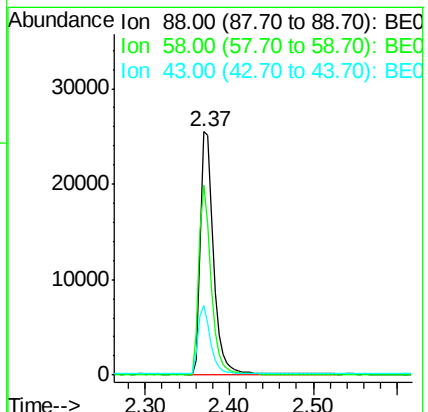
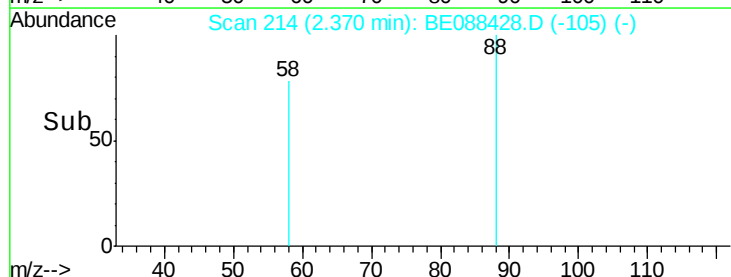
43 27.0 21.9 32.9

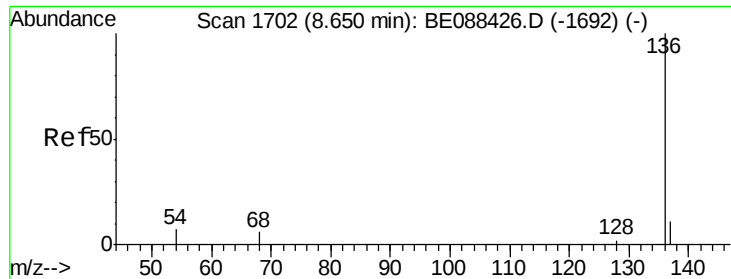


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

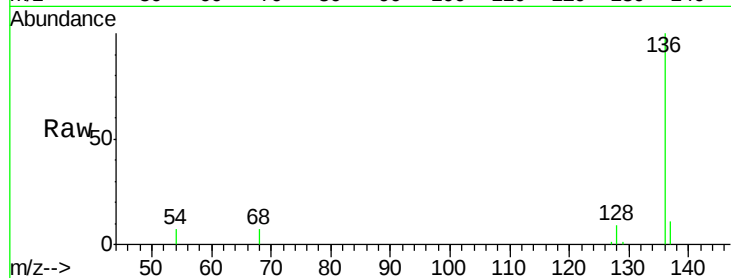




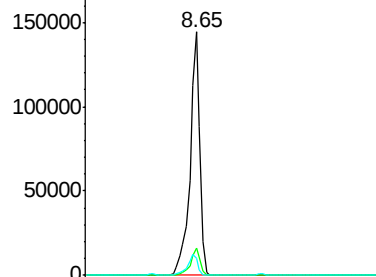
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. 0.00 min
Lab File: BE088428.D
Acq: 31 Oct 2014 18:06

Instrument :
BNA_E
ClientSampleId :
SSTDIC005

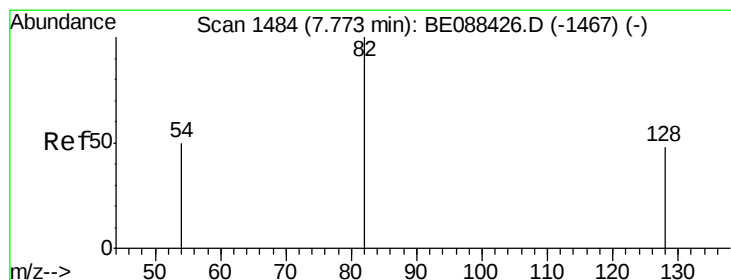
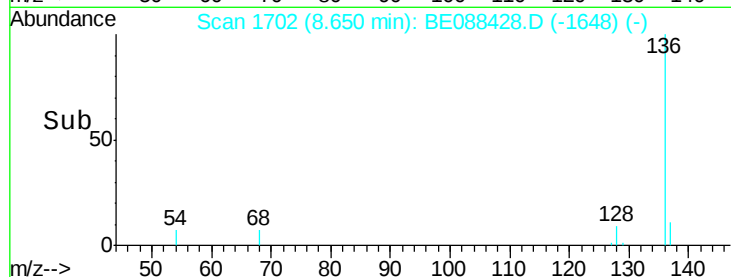
Tgt Ion: 136 Resp: 155364
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 7.0 5.3 7.9



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

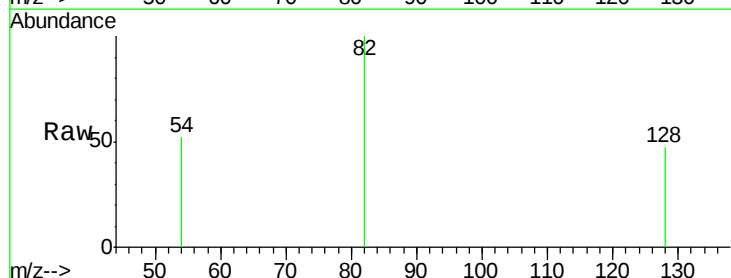


Time--> 8.50 8.60 8.70 8.80 8.90

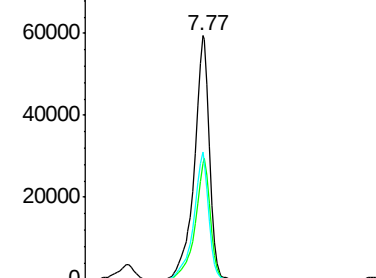


#4
Nitrobenzene-d5
Concen: 5.36 ng
RT: 7.77 min Scan# 1484
Delta R.T. 0.00 min
Lab File: BE088428.D
Acq: 31 Oct 2014 18:06

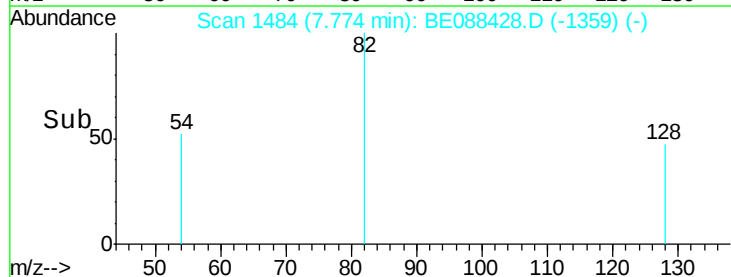
Tgt Ion: 82 Resp: 60802
Ion Ratio Lower Upper
82 100
128 47.5 38.4 57.6
54 52.1 40.2 60.2



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



Time--> 7.70 7.80 7.90





#5

Naphthalene

Concen: 4.92 ng

RT: 8.67 min Scan# 1706

Delta R.T. 0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

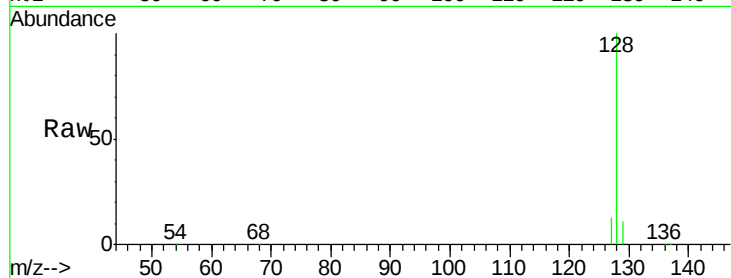
Tgt Ion:128 Resp: 159989

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

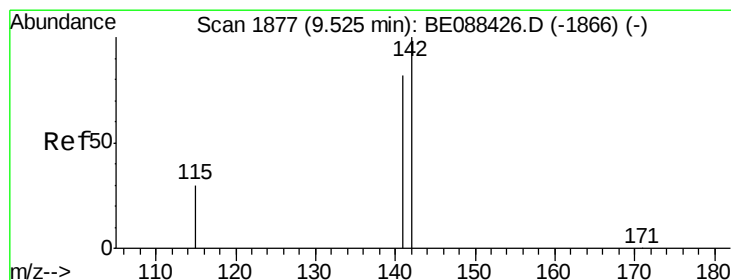
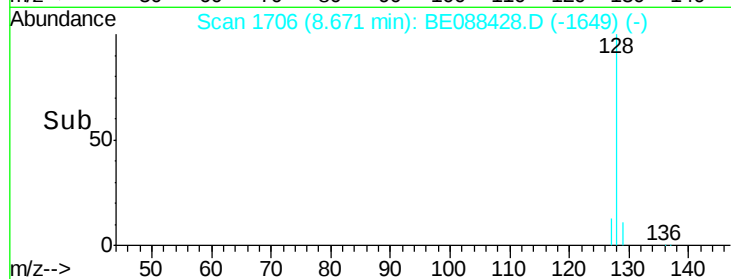
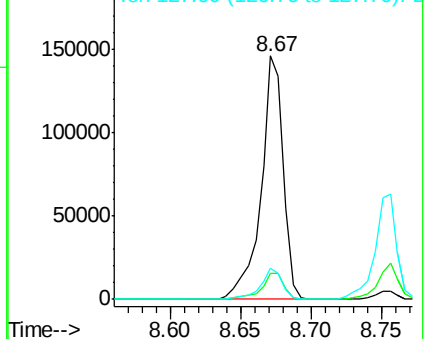
127 12.6 10.1 15.1



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: 5.01 ng

RT: 9.52 min Scan# 1877

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

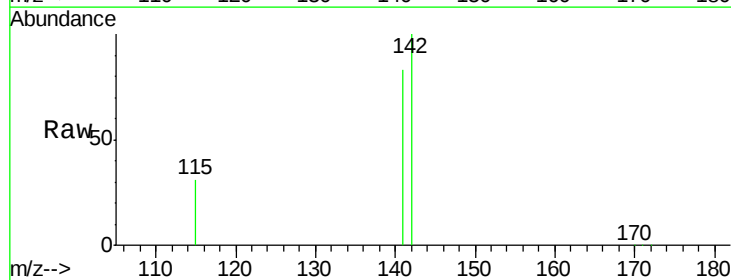
Tgt Ion:142 Resp: 100933

Ion Ratio Lower Upper

142 100

141 83.2 65.8 98.8

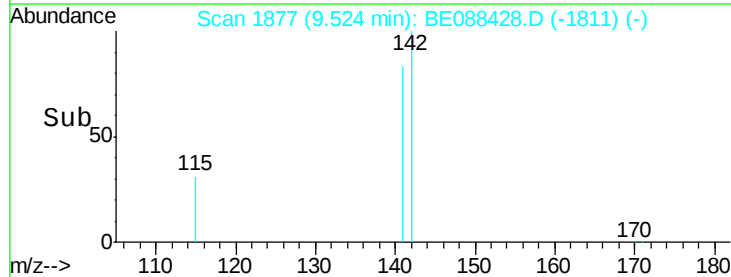
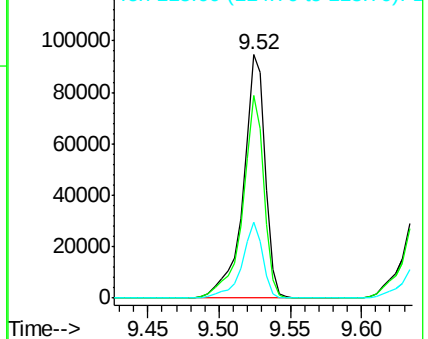
115 31.4 24.2 36.4



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: 10.79 min Scan# 2109

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

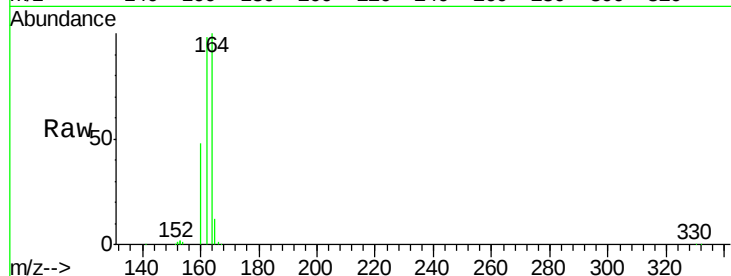
Tgt Ion:164 Resp: 71361

Ion Ratio Lower Upper

164 100

162 98.2 77.0 115.4

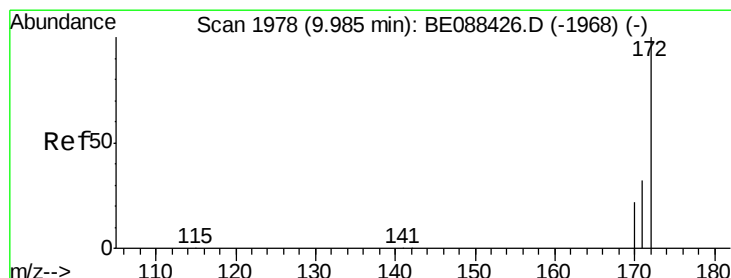
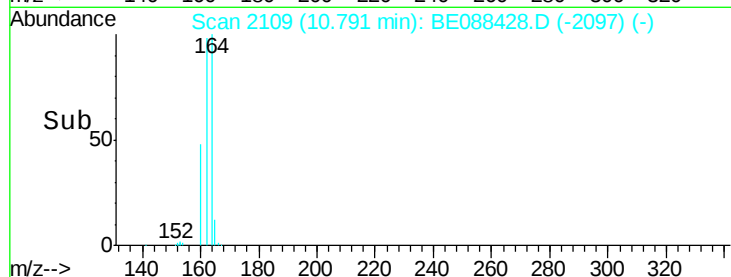
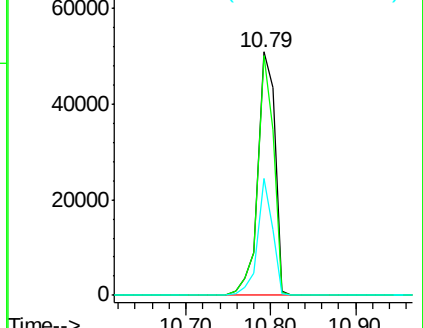
160 48.0 36.8 55.2



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: 5.00 ng

RT: 9.98 min Scan# 1978

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

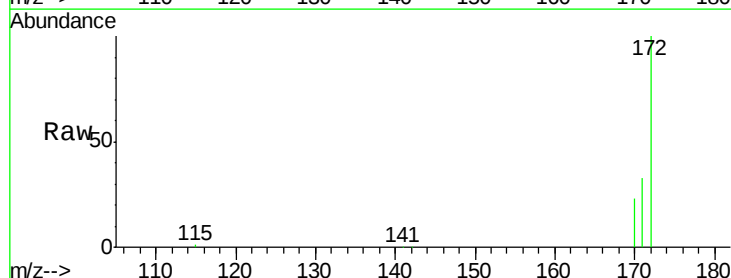
Tgt Ion:172 Resp: 101427

Ion Ratio Lower Upper

172 100

171 33.2 26.0 39.0

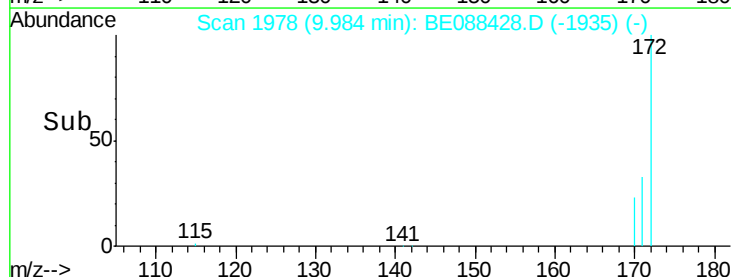
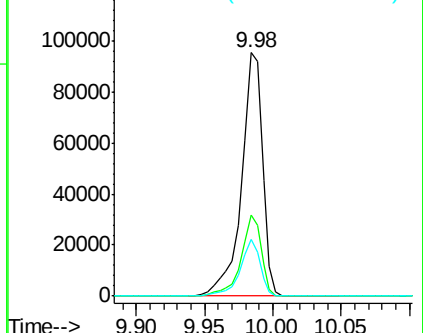
170 23.2 17.6 26.4



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: 4.80 ng

RT: 10.62 min Scan# 2093

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

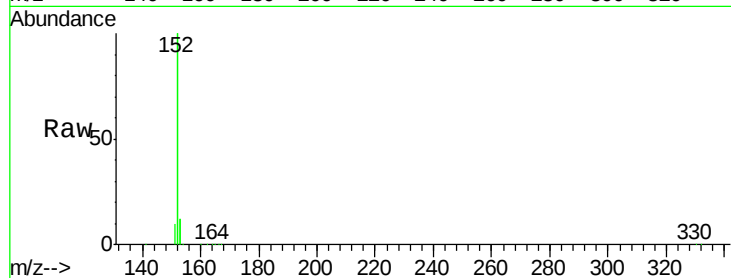
Tgt Ion:152 Resp: 563304

Ion Ratio Lower Upper

152 100

151 4.7 4.4 6.6

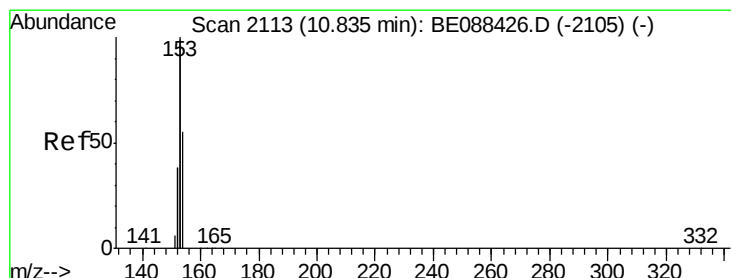
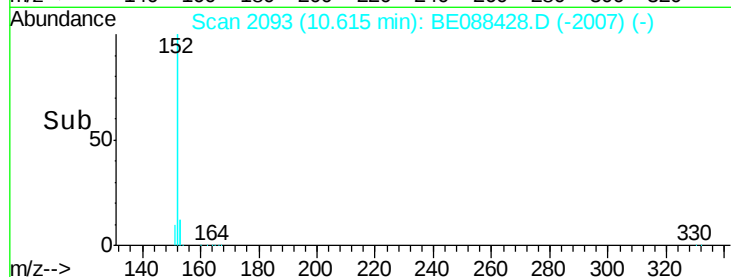
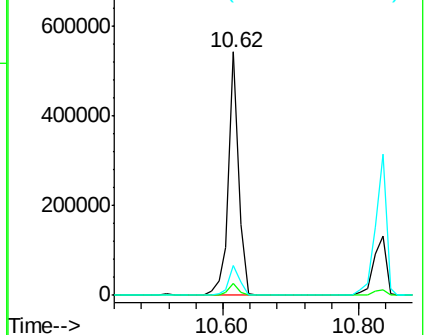
153 13.2 10.5 15.7



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: 4.78 ng

RT: 10.84 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

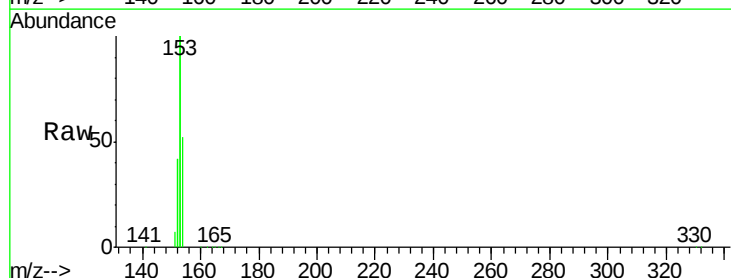
Tgt Ion:154 Resp: 83352

Ion Ratio Lower Upper

154 100

153 411.6 324.3 486.5

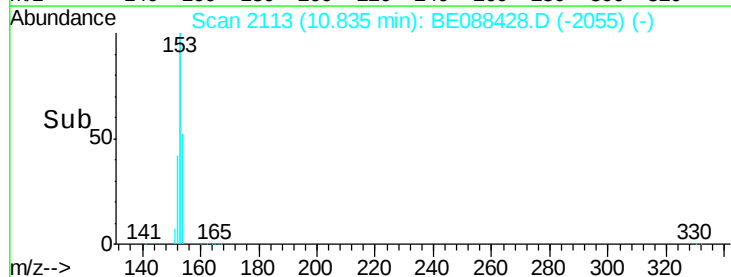
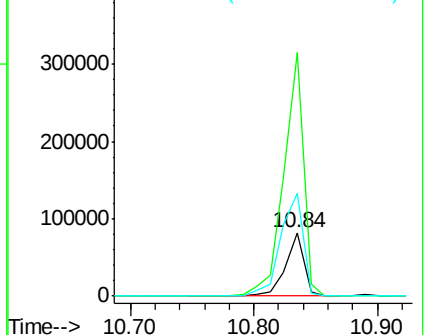
152 198.0 154.9 232.3

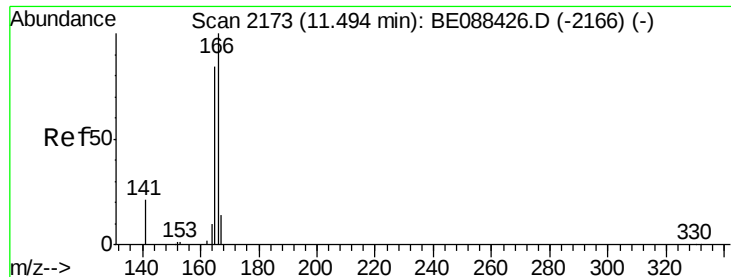


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 4.90 ng

RT: 11.49 min Scan# 2173

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

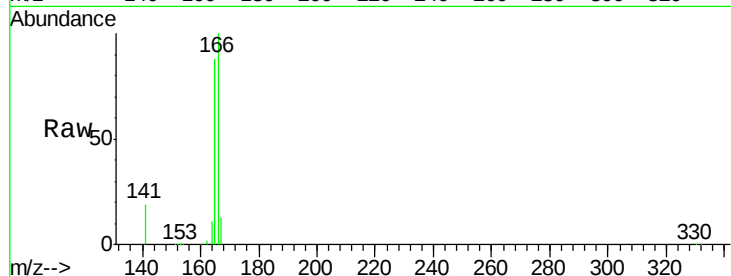
Tgt Ion:166 Resp: 90457

Ion Ratio Lower Upper

166 100

165 90.2 71.3 106.9

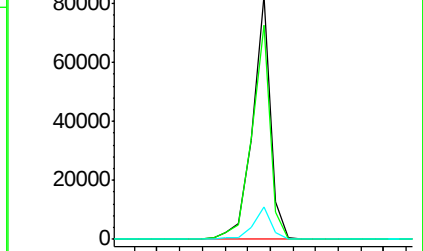
167 13.4 10.7 16.1



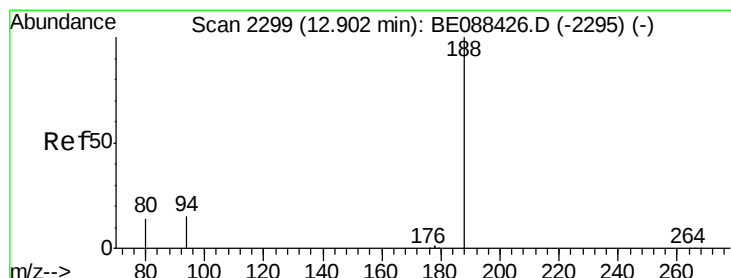
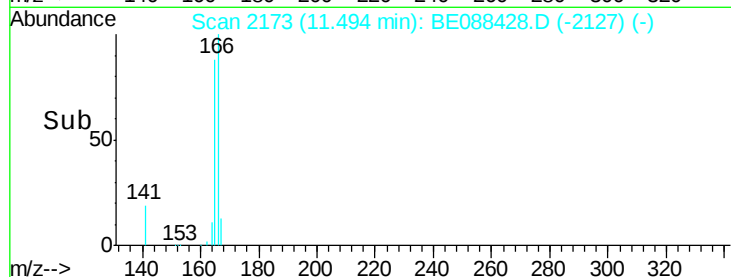
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.90 min Scan# 2299

Delta R.T. 0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

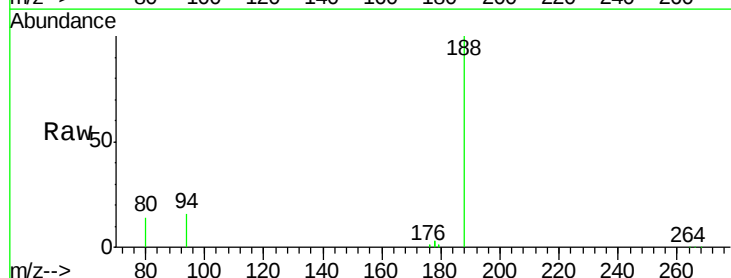
Tgt Ion:188 Resp: 133347

Ion Ratio Lower Upper

188 100

94 15.6 11.8 17.8

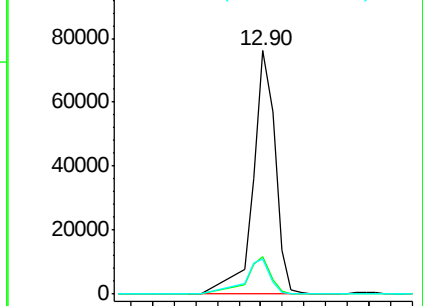
80 14.4 10.9 16.3



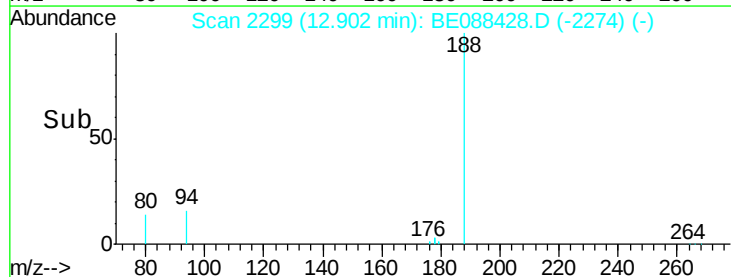
Abundance Ion 188.00 (187.70 to 188.70): E

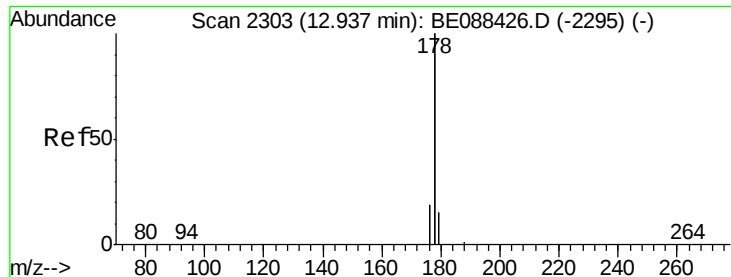
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->

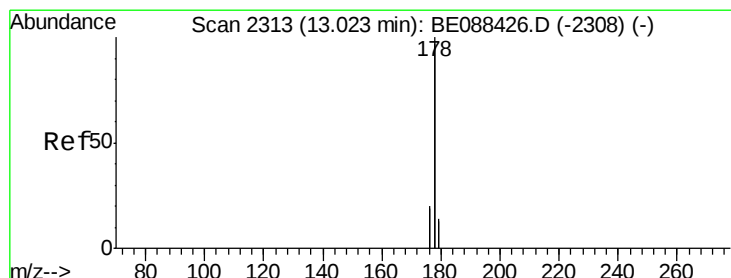
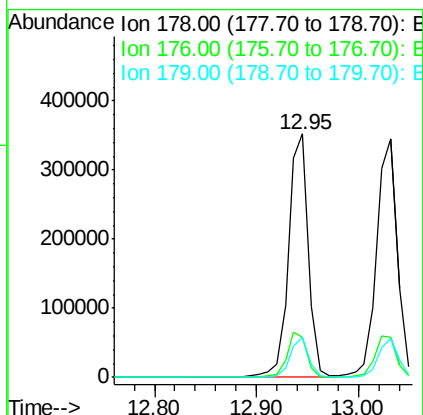
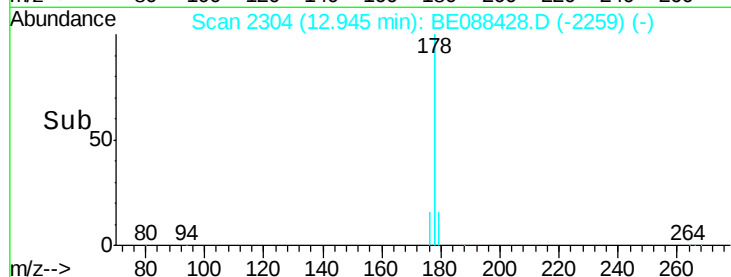
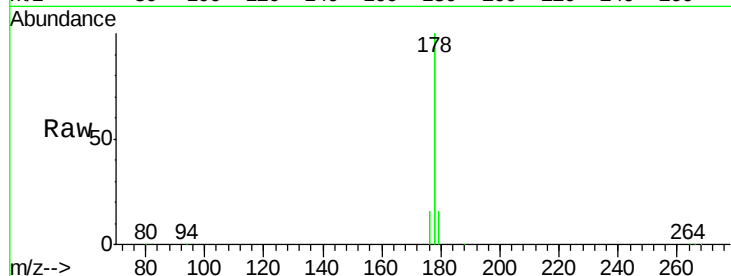




#13
Phenanthrene
Concen: 4.63 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088428.D
Acq: 31 Oct 2014 18:06

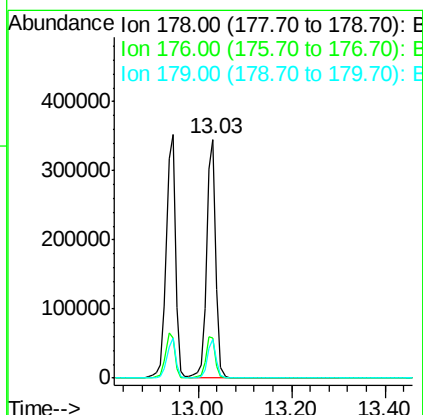
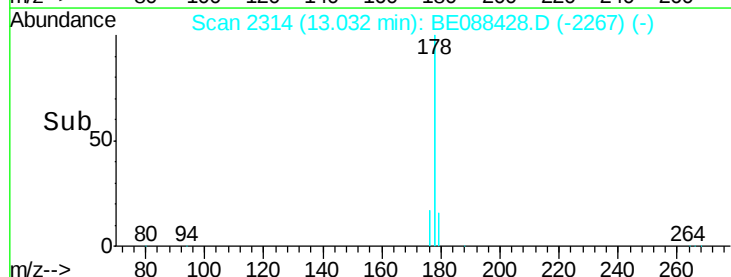
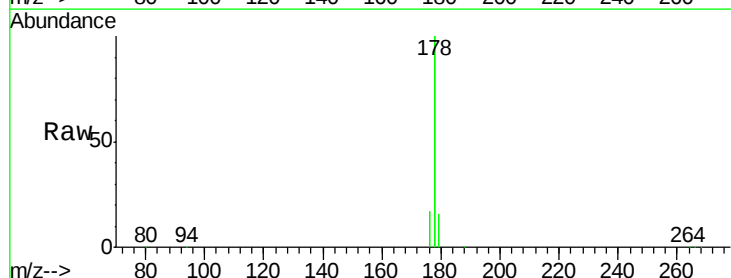
Instrument :
BNA_E
ClientSampleId :
SSTDICC005

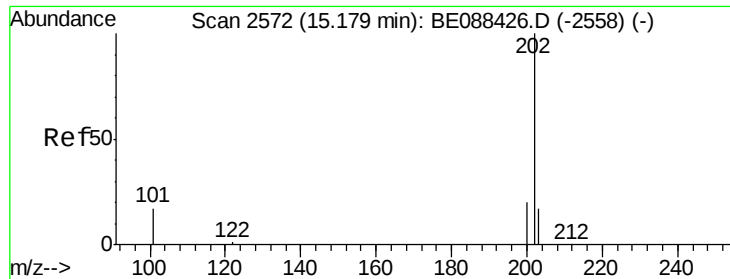
Tgt Ion:178 Resp: 626583
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.6 12.8 19.2



#14
Anthracene
Concen: 4.90 ng
RT: 13.03 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BE088428.D
Acq: 31 Oct 2014 18:06

Tgt Ion:178 Resp: 483618
Ion Ratio Lower Upper
178 100
176 18.1 15.0 22.4
179 15.5 12.5 18.7

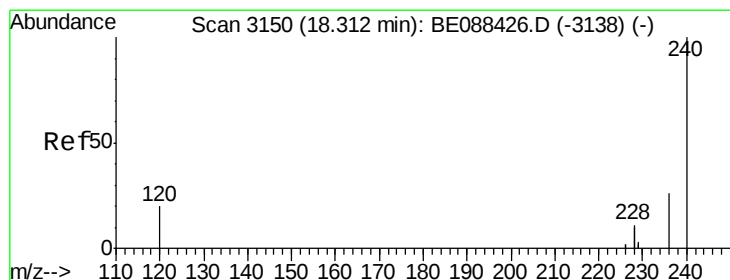
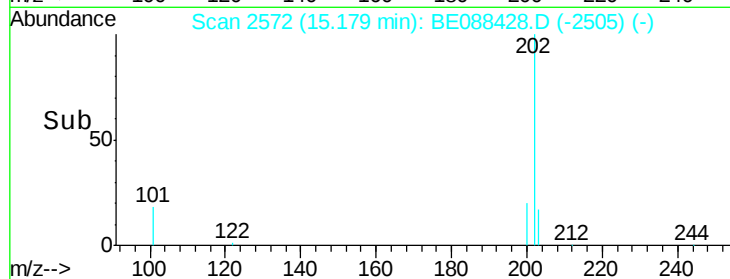
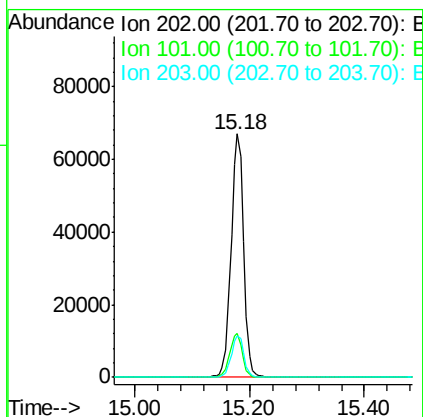
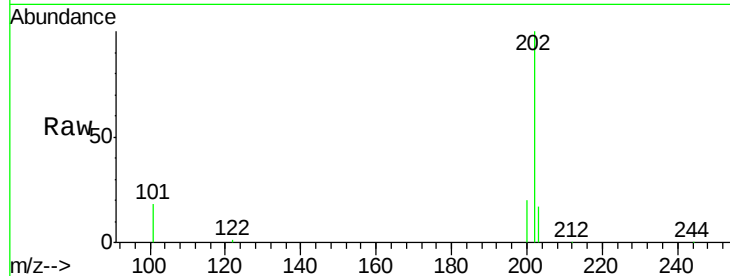




#15
 Fluoranthene
 Concen: 5.21 ng
 RT: 15.18 min Scan# 2572
 Delta R.T. -0.00 min
 Lab File: BE088428.D
 Acq: 31 Oct 2014 18:06

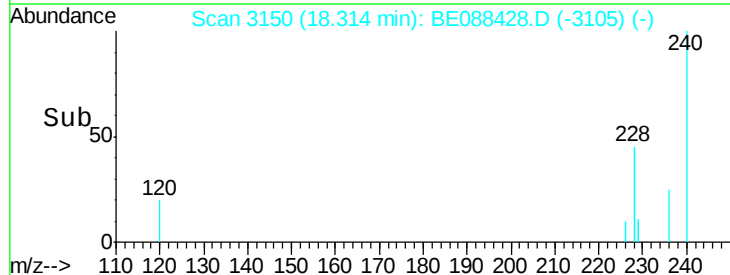
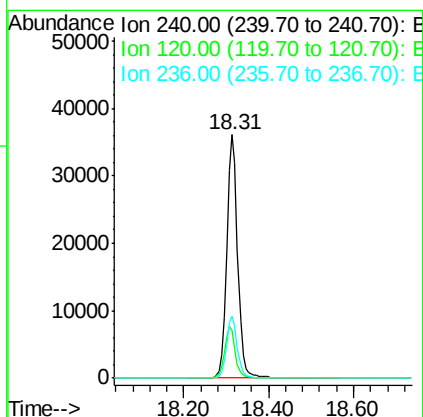
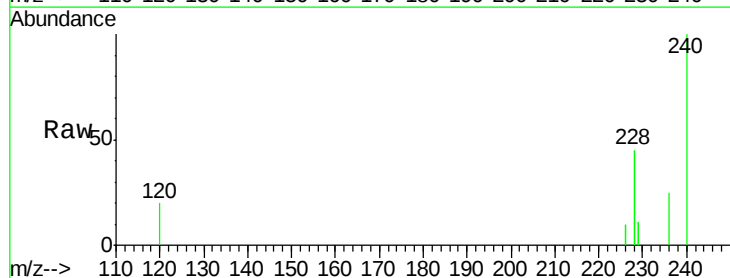
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

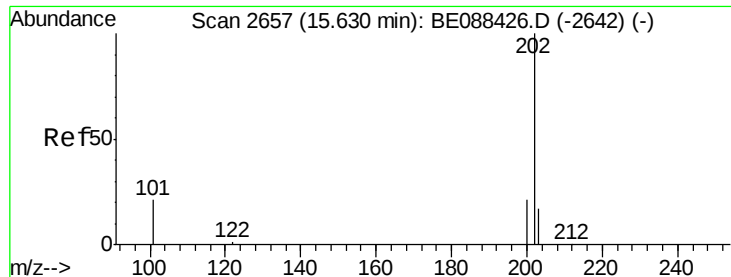
Tgt Ion: 202 Resp: 102520
 Ion Ratio Lower Upper
 202 100
 101 17.8 14.3 21.5
 203 17.0 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.31 min Scan# 3150
 Delta R.T. 0.00 min
 Lab File: BE088428.D
 Acq: 31 Oct 2014 18:06

Tgt Ion: 240 Resp: 63956
 Ion Ratio Lower Upper
 240 100
 120 19.6 16.4 24.6
 236 25.5 20.5 30.7





#17

Pyrene

Concen: 5.12 ng

RT: 15.63 min Scan# 2658

Delta R.T. 0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

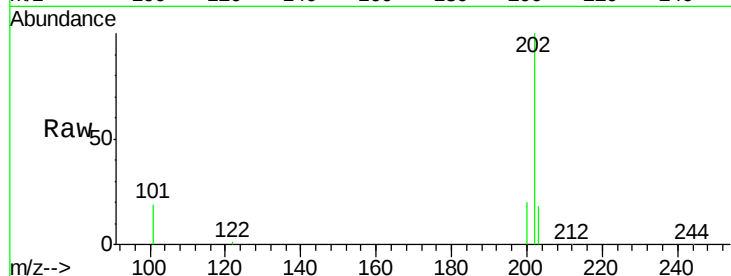
Tgt Ion: 202 Resp: 107410

Ion Ratio Lower Upper

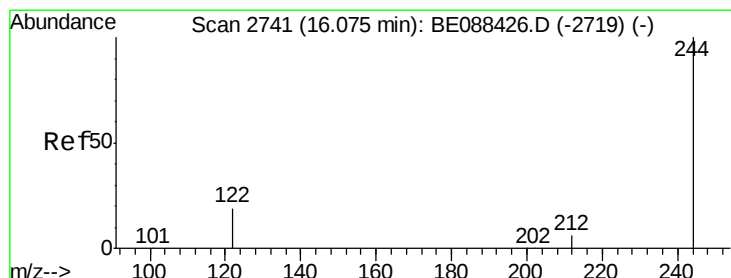
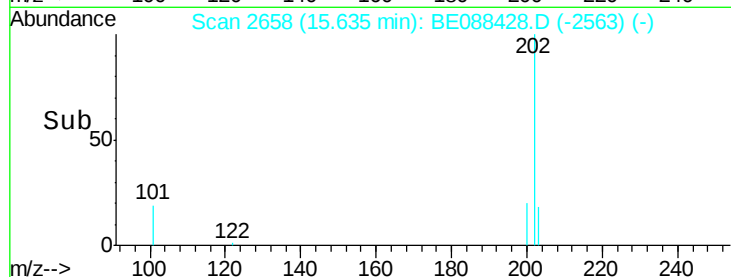
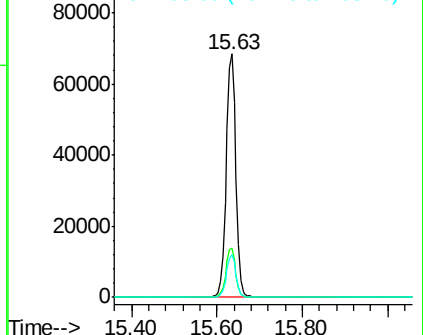
202 100

200 20.2 16.1 24.1

203 17.4 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 5.20 ng

RT: 16.07 min Scan# 2741

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

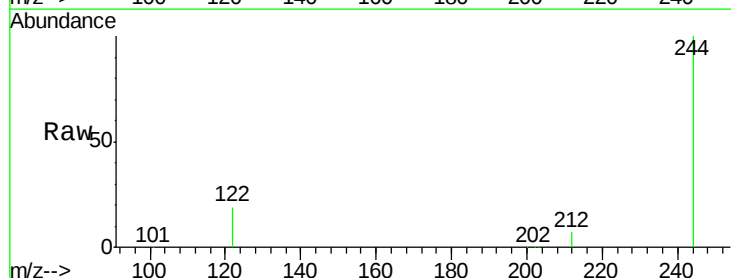
Tgt Ion: 244 Resp: 61223

Ion Ratio Lower Upper

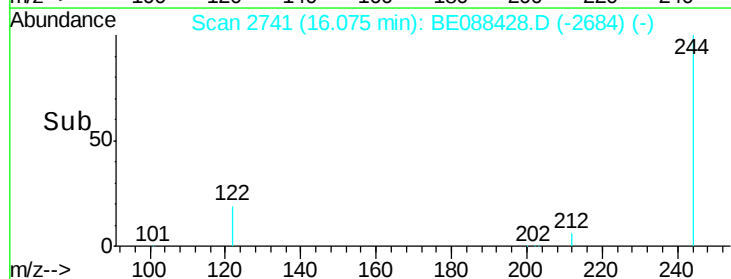
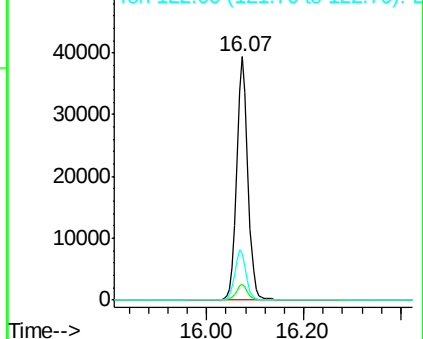
244 100

212 6.5 5.5 8.3

122 19.4 15.6 23.4



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 5.14 ng

RT: 18.29 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

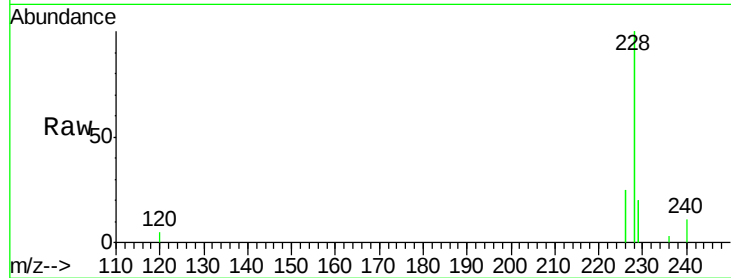
Tgt Ion:228 Resp: 309932

Ion Ratio Lower Upper

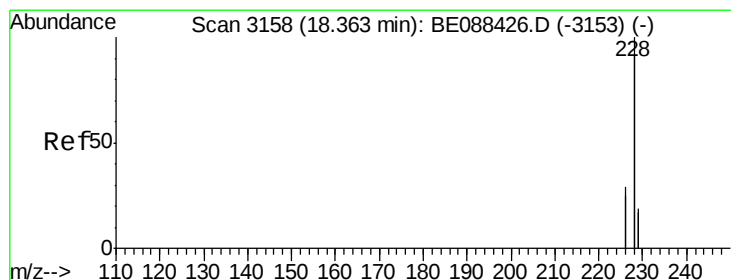
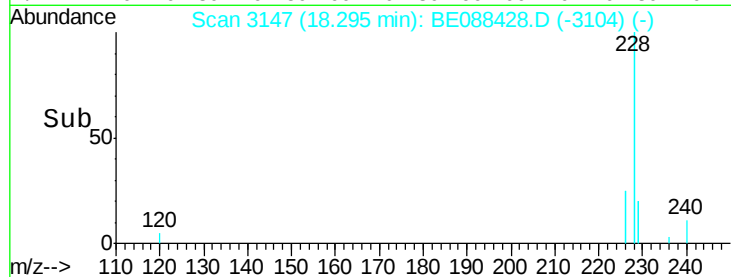
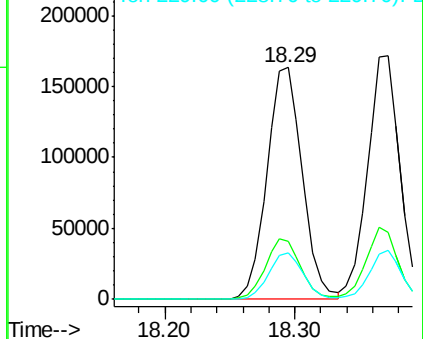
228 100

226 25.1 19.8 29.6

229 20.1 16.0 24.0



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: 5.10 ng

RT: 18.37 min Scan# 3159

Delta R.T. 0.01 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

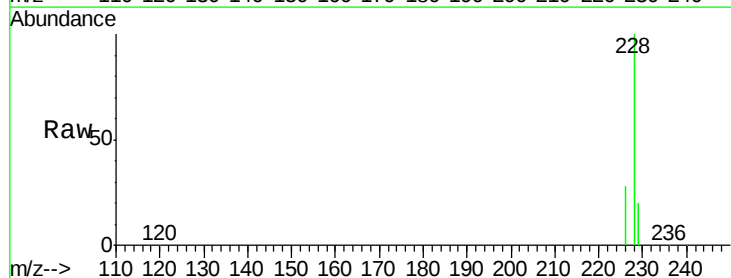
Tgt Ion:228 Resp: 302457

Ion Ratio Lower Upper

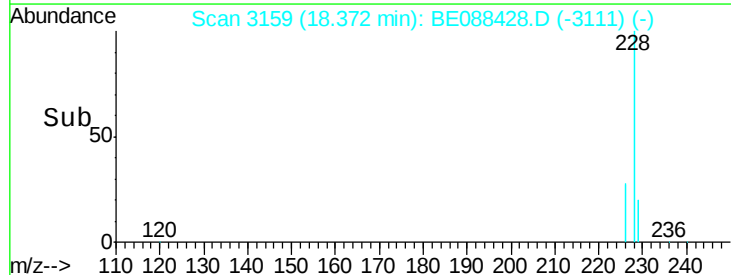
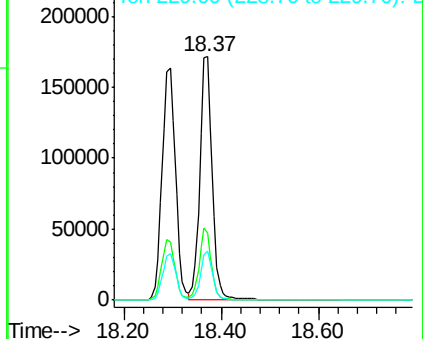
228 100

226 27.6 23.6 35.4

229 19.9 15.4 23.2



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: 4.00 ng

RT: 23.55 min Scan# 4150

Delta R.T. 0.01 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

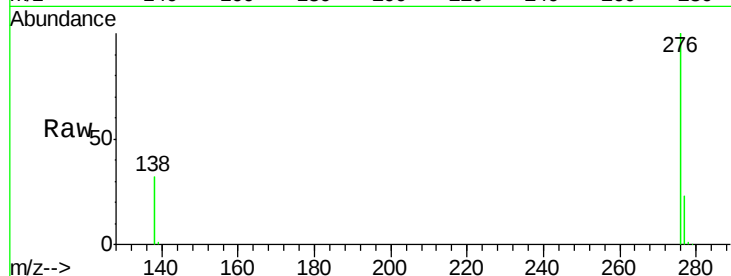
Tgt Ion:276 Resp: 225233

Ion Ratio Lower Upper

276 100

138 32.0 20.2 30.2#

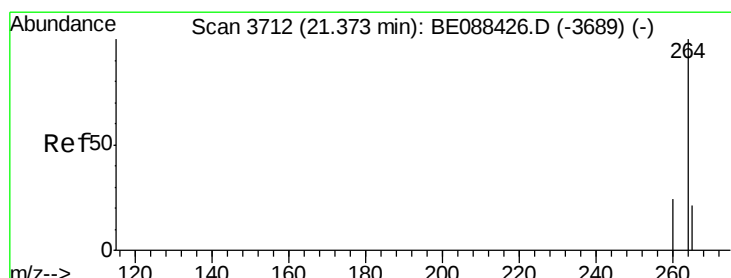
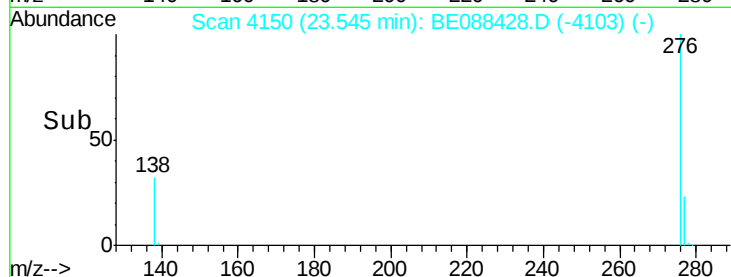
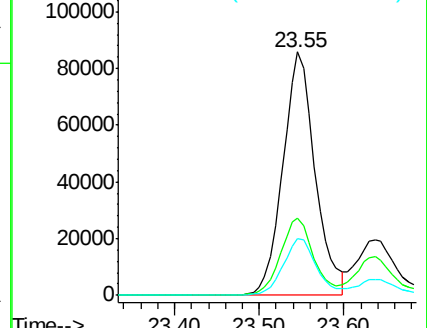
277 23.7 14.8 22.2#



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: 21.37 min Scan# 3712

Delta R.T. 0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

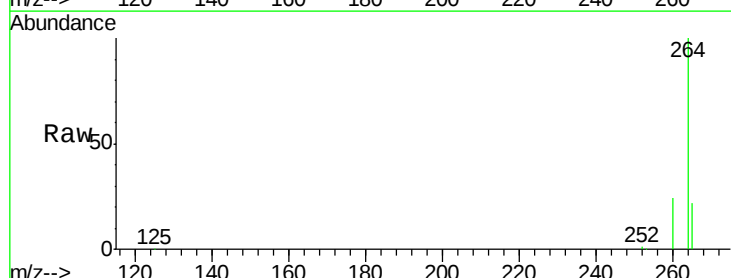
Tgt Ion:264 Resp: 56190

Ion Ratio Lower Upper

264 100

260 23.8 18.9 28.3

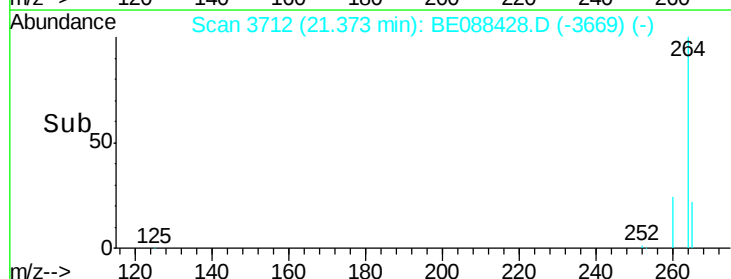
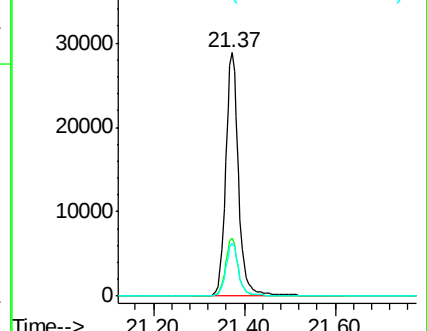
265 21.7 17.2 25.8



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: 5.39 ng

RT: 20.62 min Scan# 3546

Delta R.T. 0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

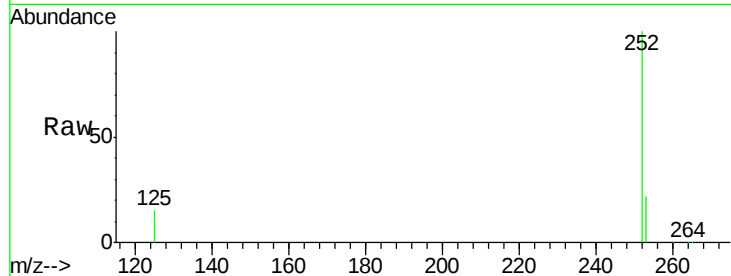
Tgt Ion:252 Resp: 66064

Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.8

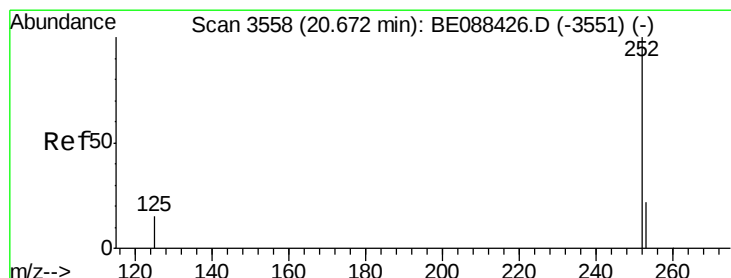
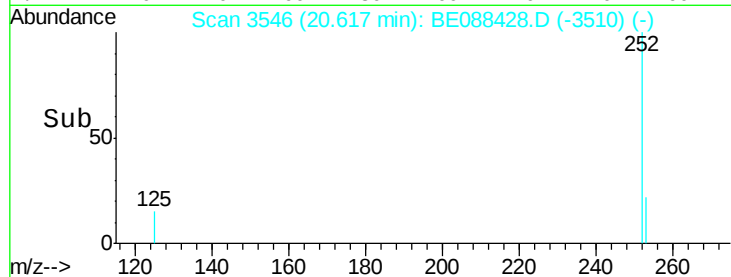
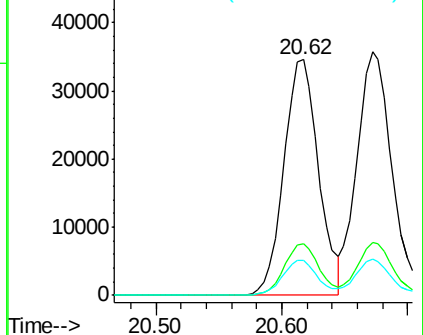
125 14.8 12.3 18.5



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: 5.25 ng

RT: 20.67 min Scan# 3558

Delta R.T. -0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

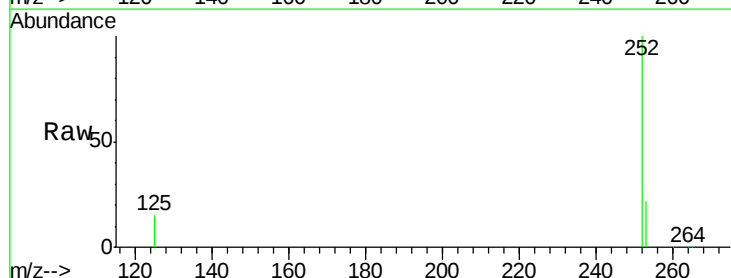
Tgt Ion:252 Resp: 71418

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.8

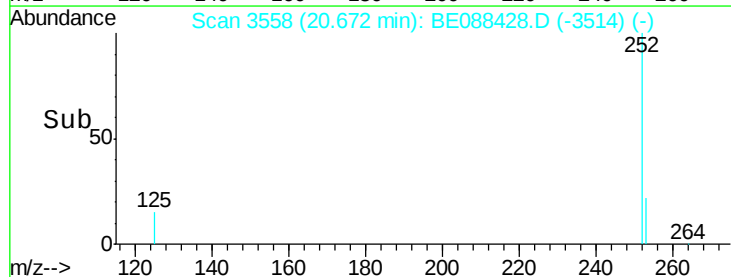
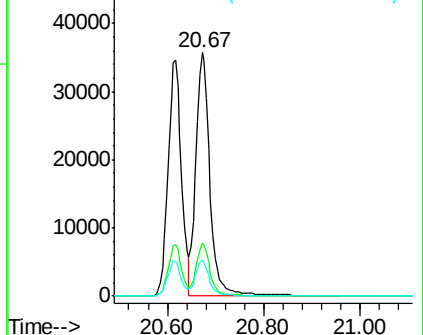
125 14.9 12.2 18.4

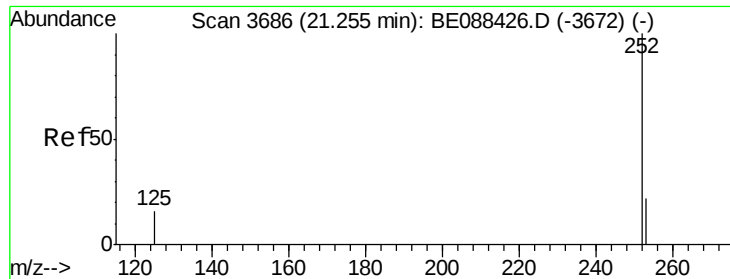


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 5.35 ng

RT: 21.25 min Scan# 3686

Delta R.T. 0.00 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

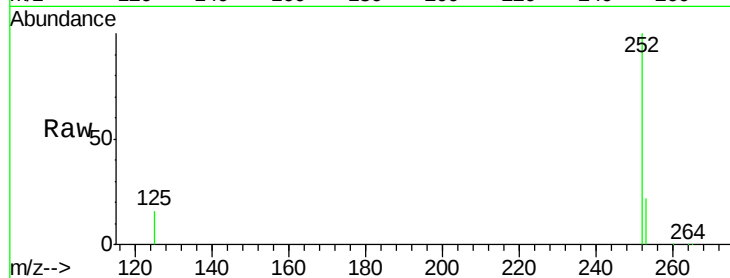
Tgt Ion:252 Resp: 62992

Ion Ratio Lower Upper

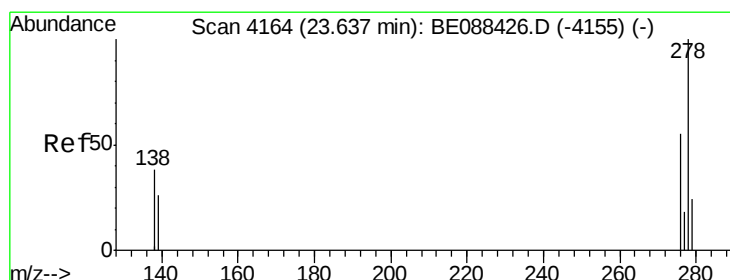
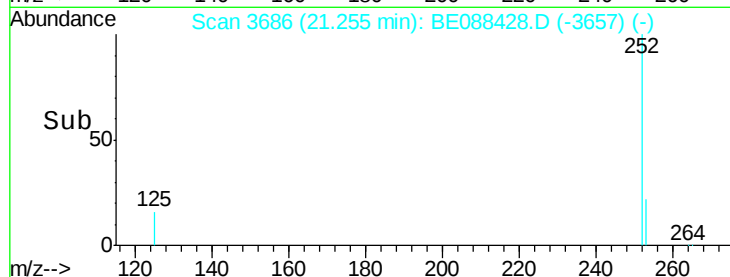
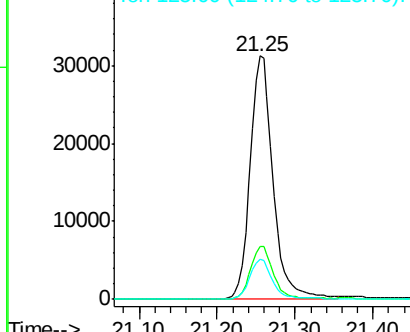
252 100

253 21.7 18.2 27.4

125 16.3 13.7 20.5



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: 5.31 ng

RT: 23.64 min Scan# 4165

Delta R.T. 0.01 min

Lab File: BE088428.D

Acq: 31 Oct 2014 18:06

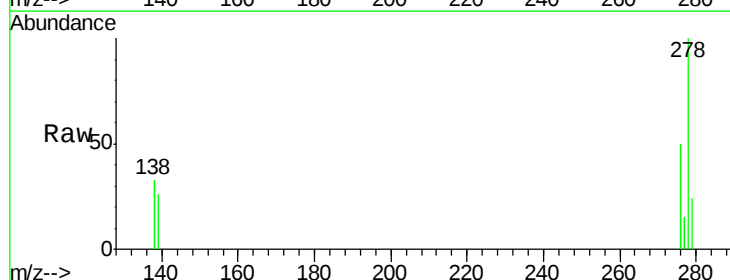
Tgt Ion:278 Resp: 58115

Ion Ratio Lower Upper

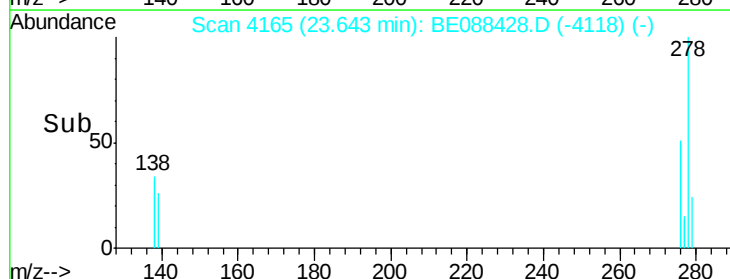
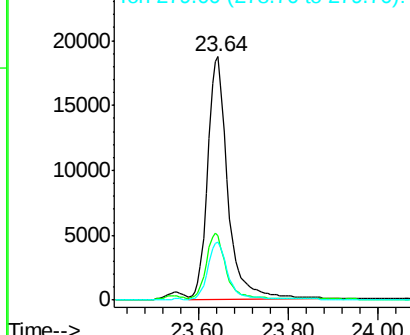
278 100

139 26.3 22.1 33.1

279 23.9 19.7 29.5



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: 5.12 ng

RT: 24.17 min Scan# 4246

Delta R.T. 0.01 min

Lab File: BE088428.D

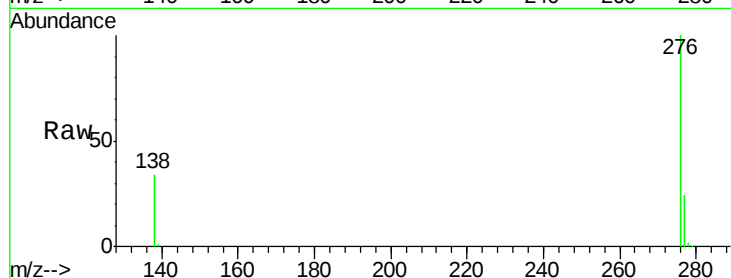
Acq: 31 Oct 2014 18:06

Instrument :

BNA_E

ClientSampleId :

SSTDICC005



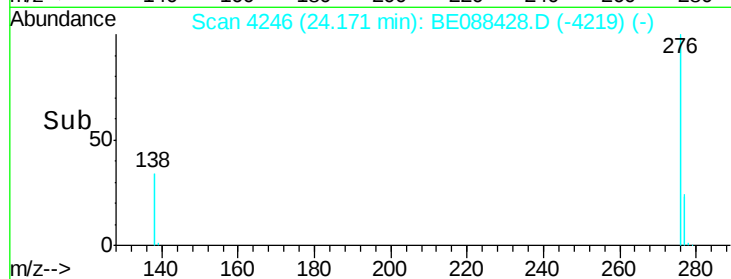
Tgt Ion: 276 Resp: 258350

Ion Ratio Lower Upper

276 100

277 24.0 19.8 29.6

138 34.5 29.3 43.9



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

