

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088433.D
 Acq On : 31 Oct 2014 21:29
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Nov 01 00:47:09 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 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	39114	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	149478	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	69630	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	125445	5.00	ng	0.00
16) Chrysene-d12	18.31	240	59804	5.00	ng	0.00
22) Perylene-d12	21.37	264	53387	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.77	82	11377	1.04	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	20331	1.04	ng	0.00
18) Terphenyl-d14	16.07	244	11300	1.03	ng	0.00

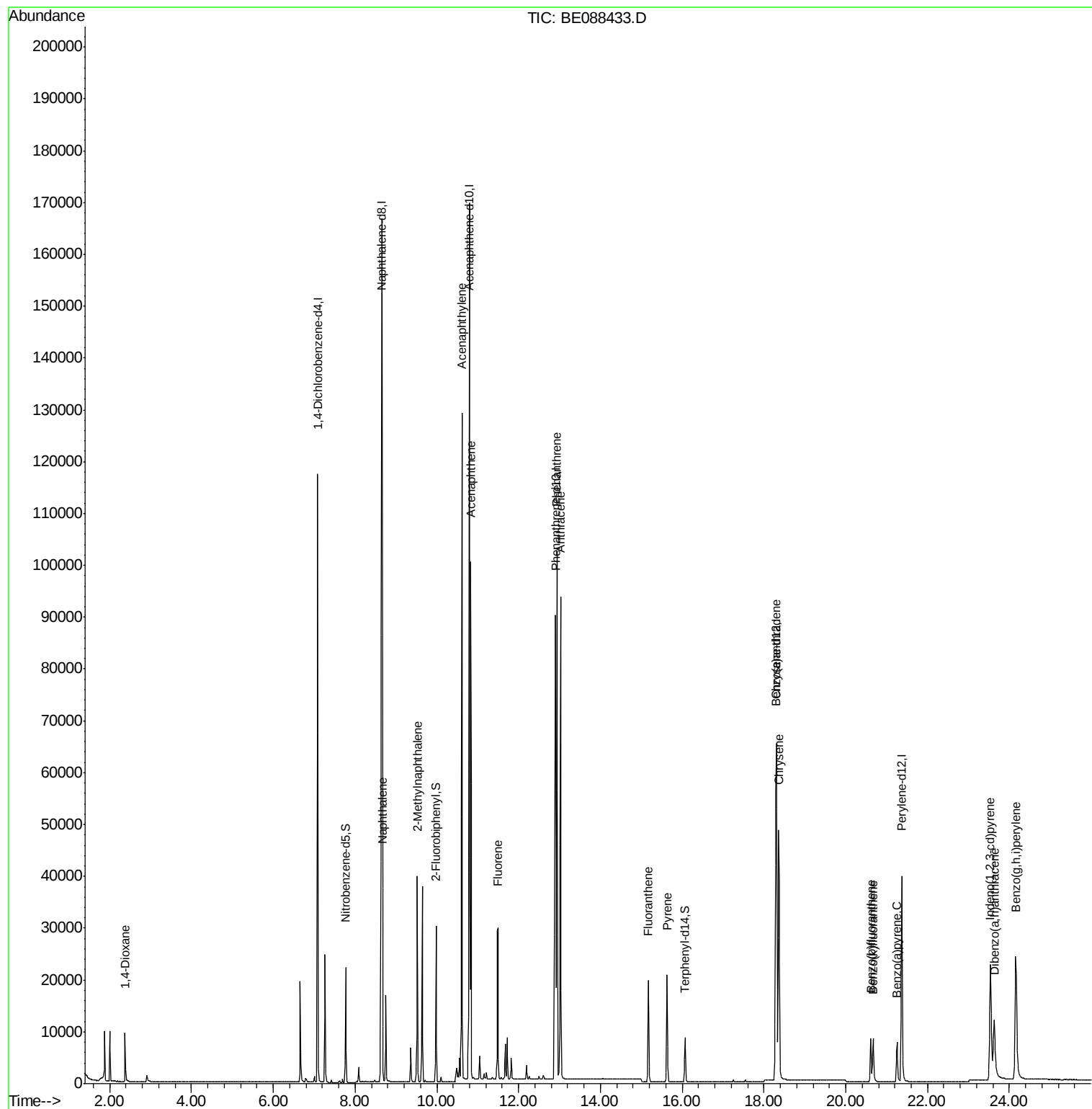
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.38	88	5336	1.04	ng	99
5) Naphthalene	8.67	128	31803	1.03	ng	99
6) 2-Methylnaphthalene	9.53	142	19926	1.04	ng	97
9) Acenaphthylene	10.62	152	115755	1.03	ng	100
10) Acenaphthene	10.83	154	16877	1.01	ng	99
11) Fluorene	11.48	166	18260	1.03	ng	99
13) Phenanthrene	12.94	178	129144	1.13	ng	100
14) Anthracene	13.02	178	95822	1.04	ng	99
15) Fluoranthene	15.17	202	19092	1.03	ng	100
17) Pyrene	15.63	202	20160	1.03	ng	100
19) Benzo(a)anthracene	18.29	228	57645	1.02	ng	98
20) Chrysene	18.36	228	57465	1.04	ng	98
21) Indeno(1,2,3-cd)pyrene	23.54	276	41882	0.81	ng	# 88
23) Benzo(b)fluoranthene	20.61	252	12128	1.04	ng	100
24) Benzo(k)fluoranthene	20.67	252	13279	1.03	ng	100
25) Benzo(a)pyrene	21.25	252	11593	1.03	ng	99
26) Dibenzo(a,h)anthracene	23.63	278	10740	1.03	ng	98
27) Benzo(g,h,i)perylene	24.16	276	49175	1.03	ng	99

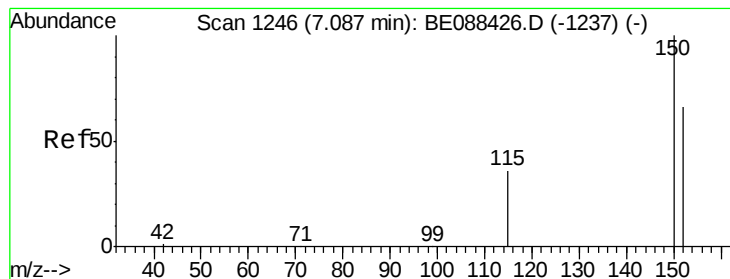
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 01 00:42:07 2014
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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: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

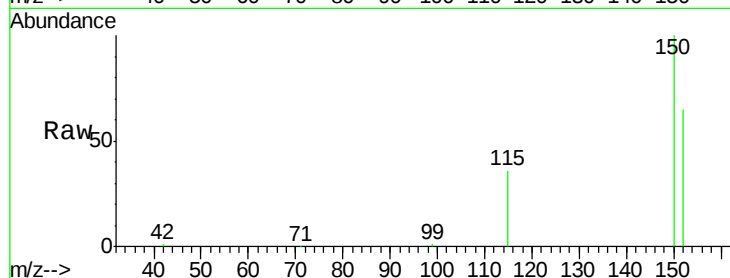
Tgt Ion:152 Resp: 39114

Ion Ratio Lower Upper

152 100

150 154.7 121.8 182.8

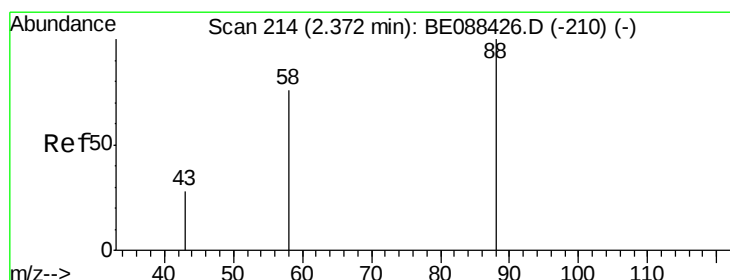
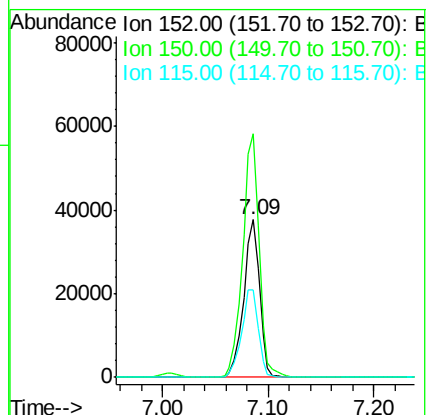
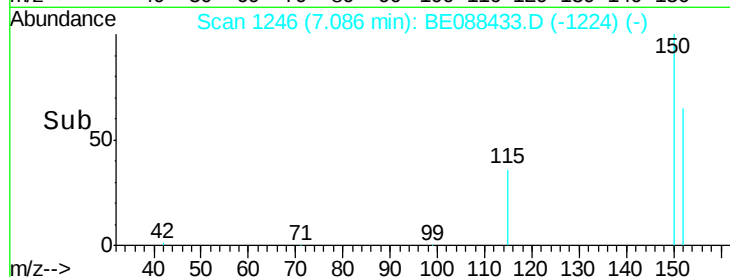
115 55.7 43.9 65.9



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: 1.04 ng

RT: 2.38 min Scan# 216

Delta R.T. 0.01 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

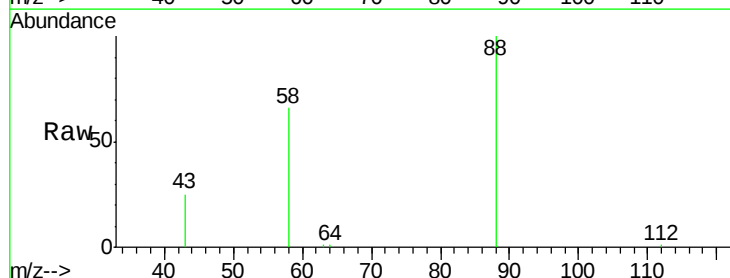
Tgt Ion: 88 Resp: 5336

Ion Ratio Lower Upper

88 100

58 73.1 59.1 88.7

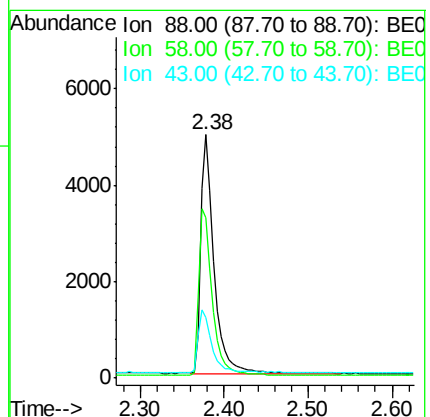
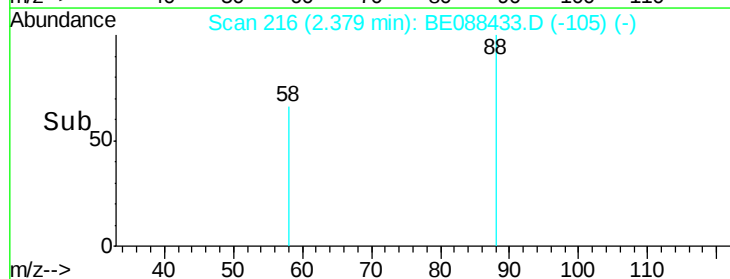
43 26.3 21.9 32.9

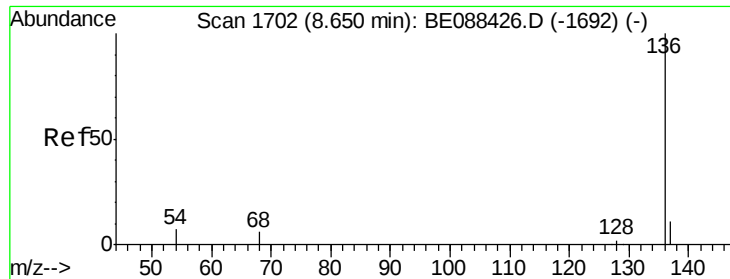


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

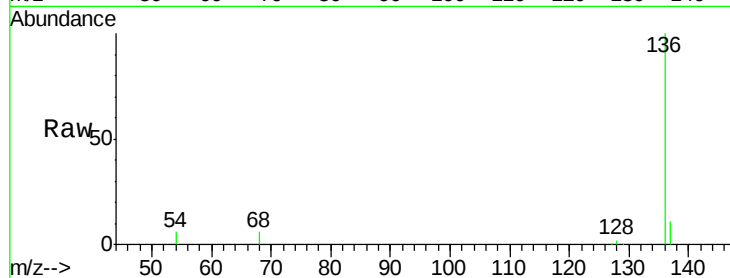




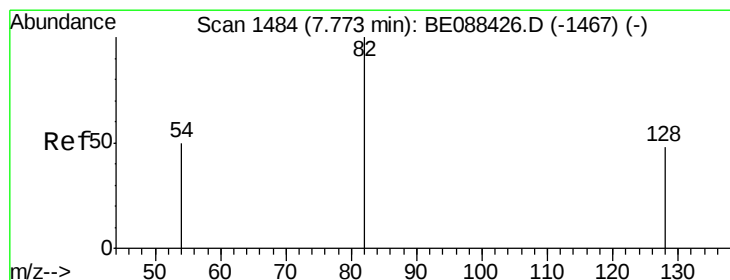
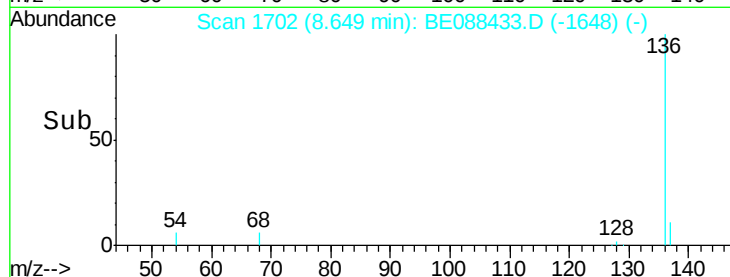
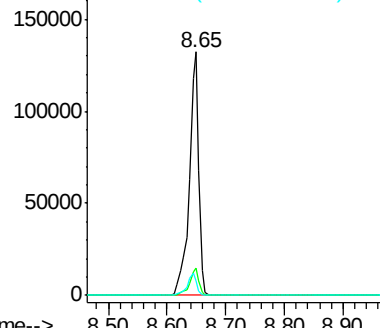
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. -0.00 min
Lab File: BE088433.D
Acq: 31 Oct 2014 21:29

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

Tgt Ion: 136 Resp: 149478
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 6.0 5.3 7.9

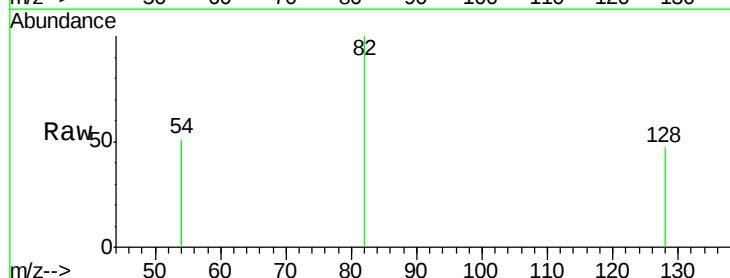


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

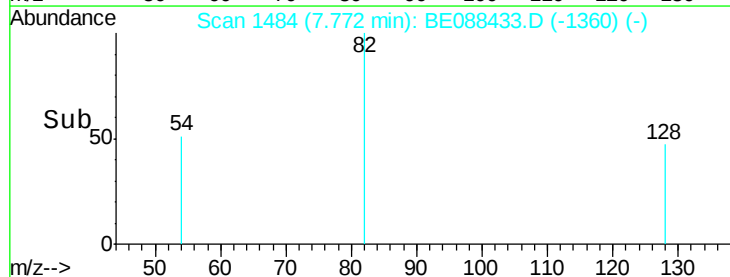
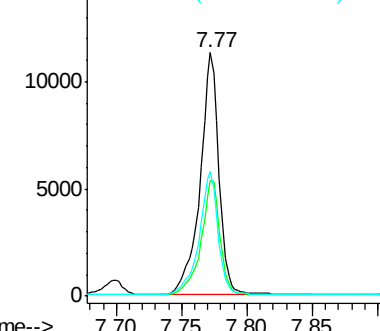


#4
Nitrobenzene-d5
Concen: 1.04 ng
RT: 7.77 min Scan# 1484
Delta R.T. -0.00 min
Lab File: BE088433.D
Acq: 31 Oct 2014 21:29

Tgt Ion: 82 Resp: 11377
Ion Ratio Lower Upper
82 100
128 47.2 38.4 57.6
54 51.0 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





#5

Naphthalene

Concen: 1.03 ng

RT: 8.67 min Scan# 1706

Delta R.T. -0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

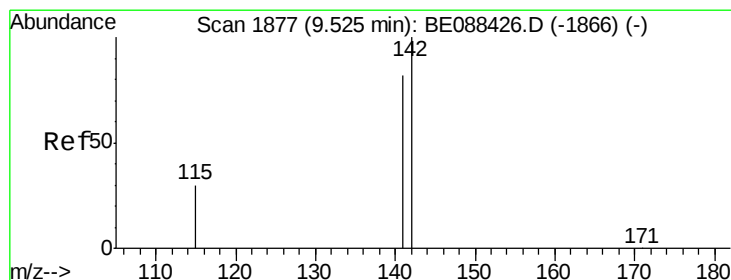
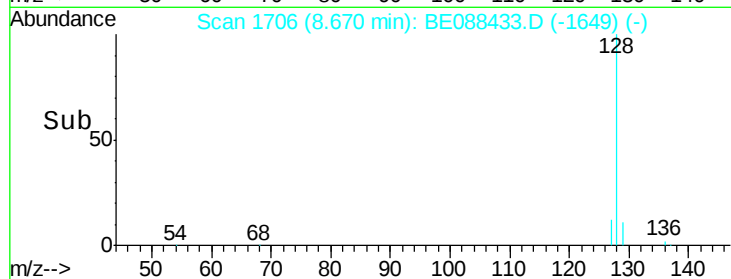
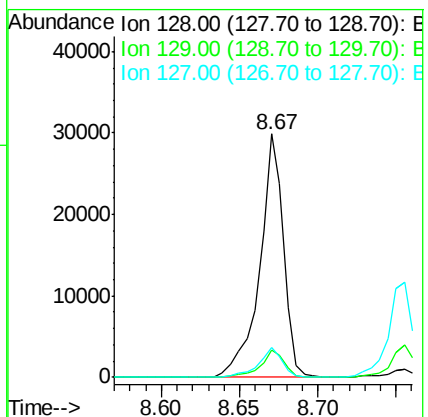
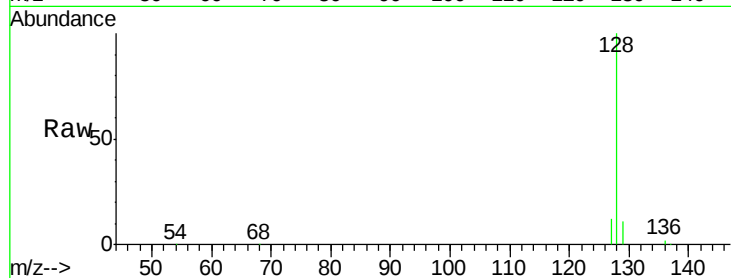
Tgt Ion:128 Resp: 31803

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

127 12.4 10.1 15.1



#6

2-Methylnaphthalene

Concen: 1.04 ng

RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

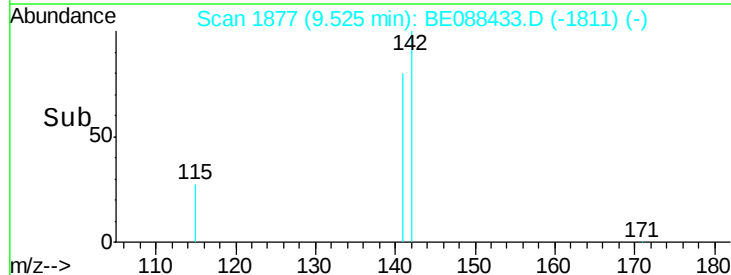
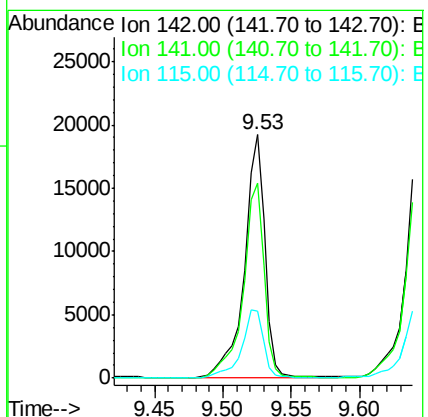
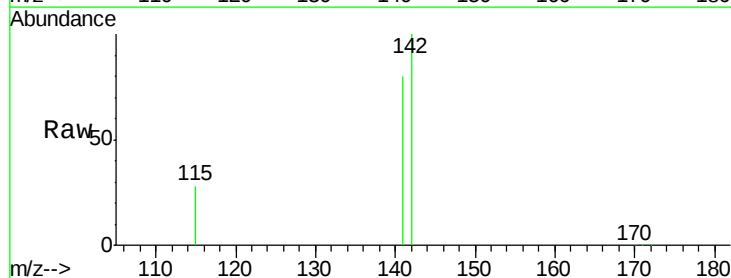
Tgt Ion:142 Resp: 19926

Ion Ratio Lower Upper

142 100

141 79.9 65.8 98.8

115 27.5 24.2 36.4





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

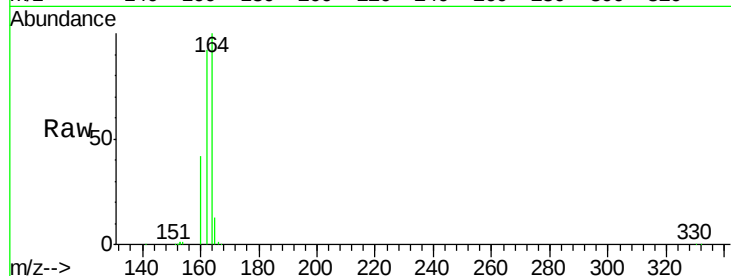
Tgt Ion:164 Resp: 69630

Ion Ratio Lower Upper

164 100

162 92.2 77.0 115.4

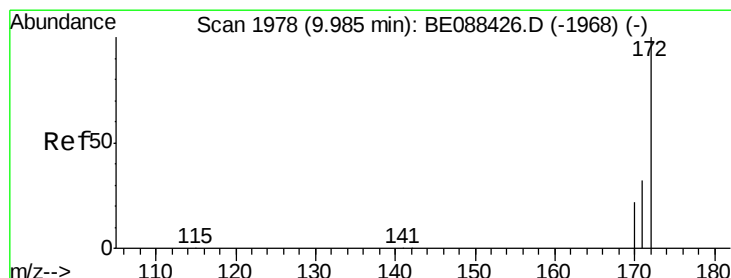
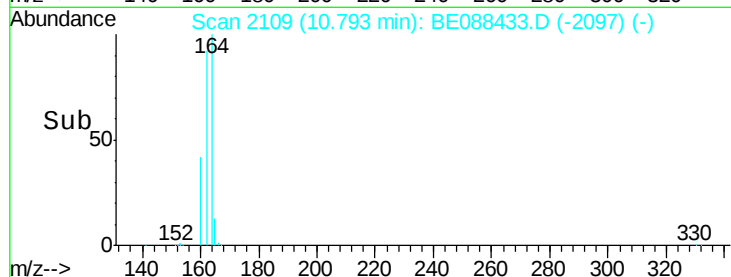
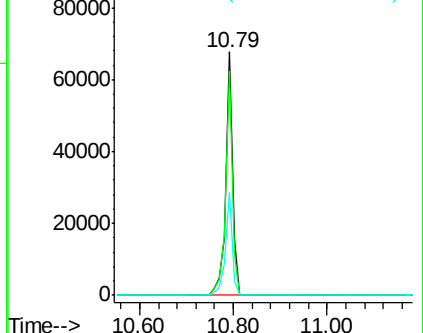
160 42.0 36.8 55.2



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: 1.04 ng

RT: 9.98 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

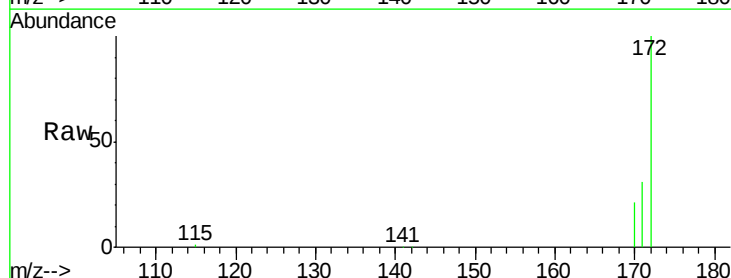
Tgt Ion:172 Resp: 20331

Ion Ratio Lower Upper

172 100

171 31.4 26.0 39.0

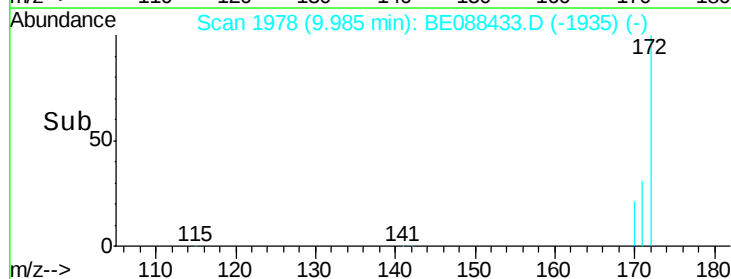
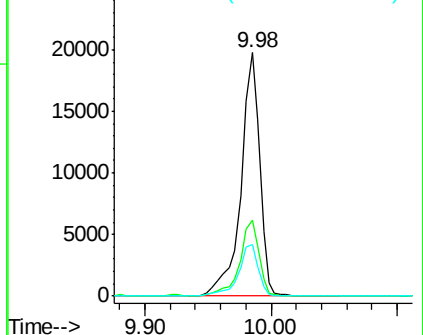
170 20.9 17.6 26.4



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: 1.03 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

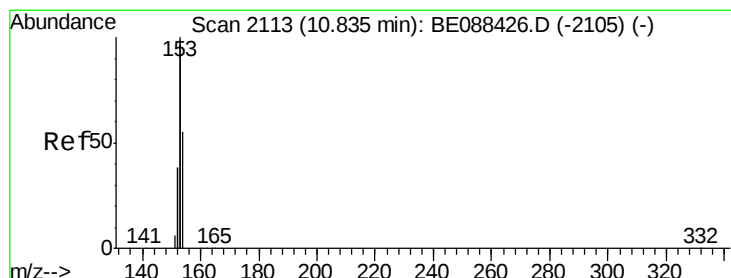
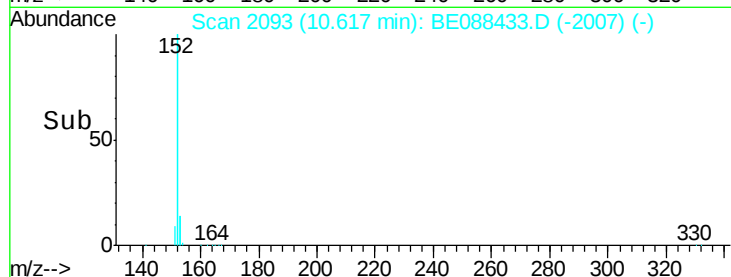
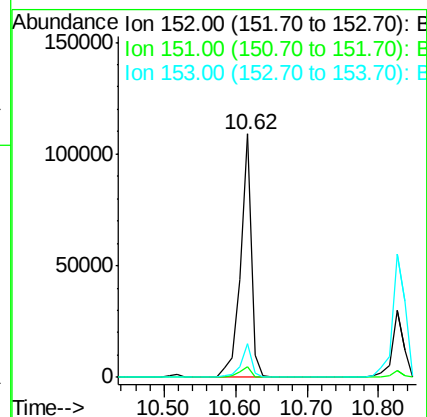
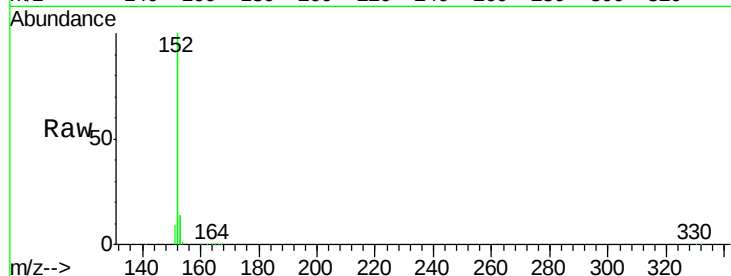
Tgt Ion:152 Resp: 115755

Ion Ratio Lower Upper

152 100

151 5.5 4.4 6.6

153 13.0 10.5 15.7



#10

Acenaphthene

Concen: 1.01 ng

RT: 10.83 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

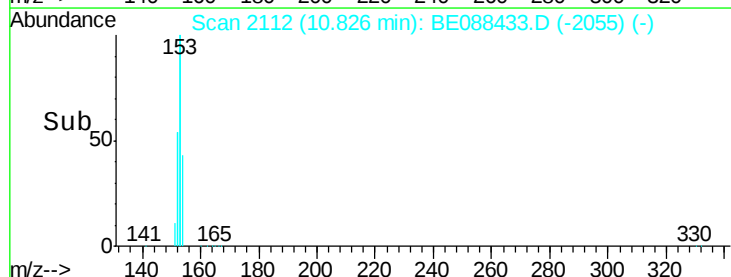
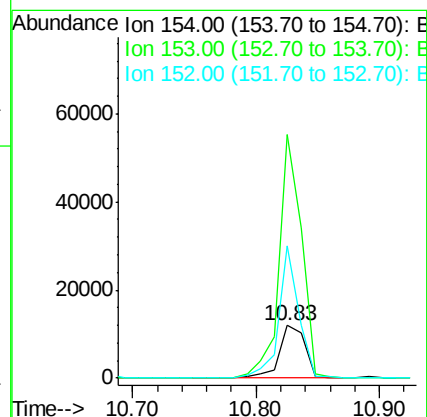
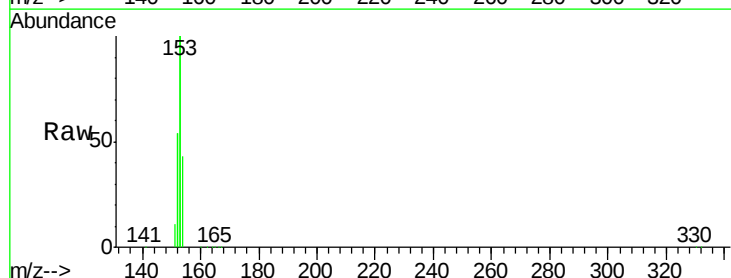
Tgt Ion:154 Resp: 16877

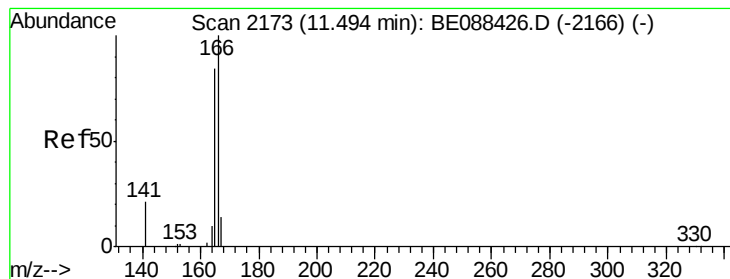
Ion Ratio Lower Upper

154 100

153 403.6 324.3 486.5

152 194.2 154.9 232.3





#11

Fluorene

Concen: 1.03 ng

RT: 11.48 min Scan# 2172

Delta R.T. -0.01 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

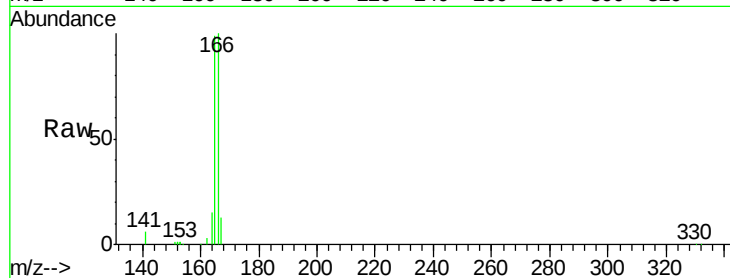
BNA_E

ClientSampleId :

SSTDCCC001

Tgt Ion:166 Resp: 18260

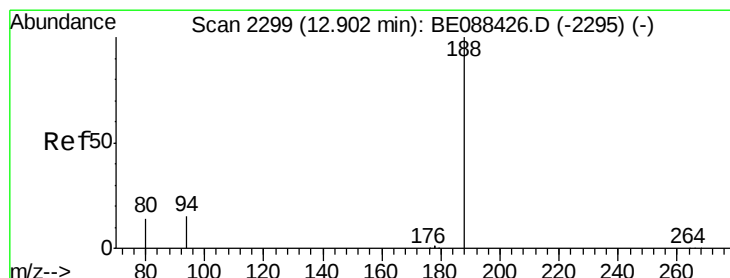
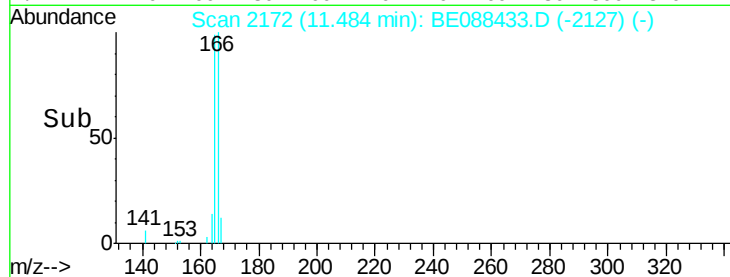
Ion	Ratio	Lower	Upper
166	100		
165	90.3	71.3	106.9
167	13.3	10.7	16.1



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: 12.90 min Scan# 2299

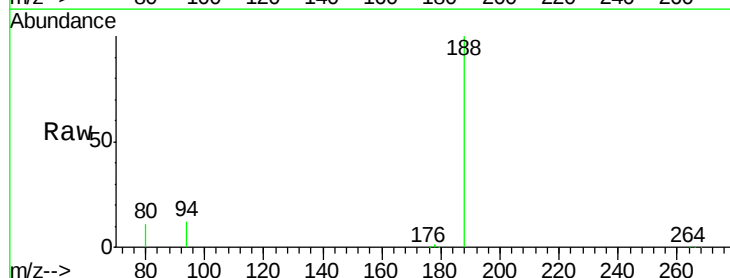
Delta R.T. 0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Tgt Ion:188 Resp: 125445

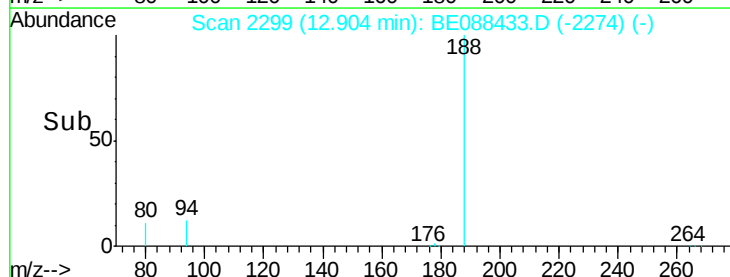
Ion	Ratio	Lower	Upper
188	100		
94	11.9	11.8	17.8
80	10.7	10.9	16.3#

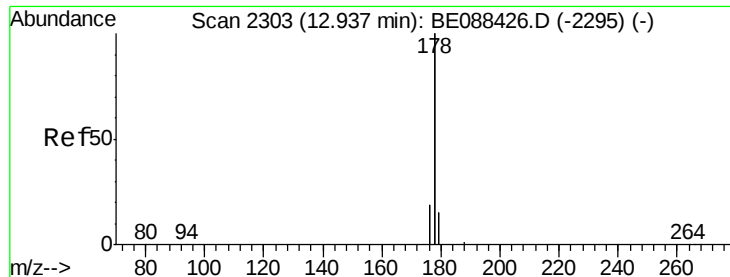


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 1.13 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

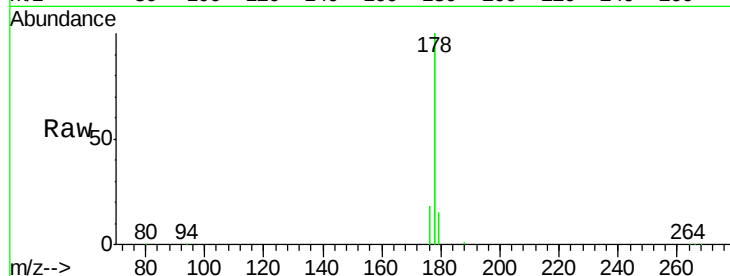
Tgt Ion:178 Resp: 129144

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

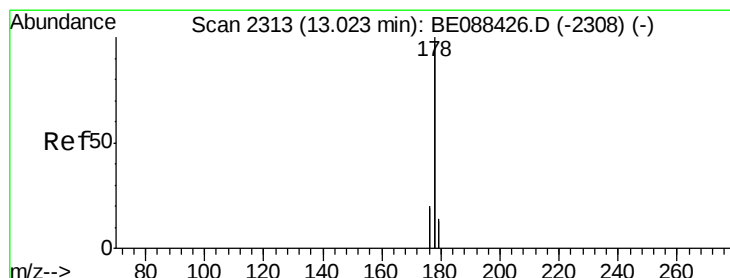
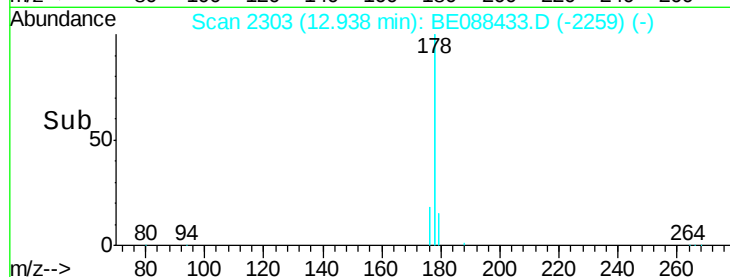
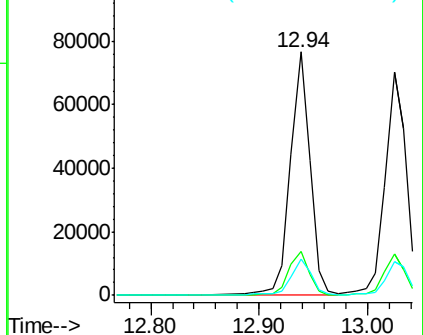
179 16.1 12.8 19.2



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: 1.04 ng

RT: 13.02 min Scan# 2313

Delta R.T. 0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

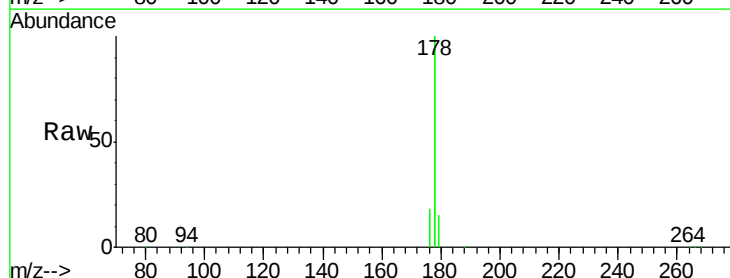
Tgt Ion:178 Resp: 95822

Ion Ratio Lower Upper

178 100

176 18.0 15.0 22.4

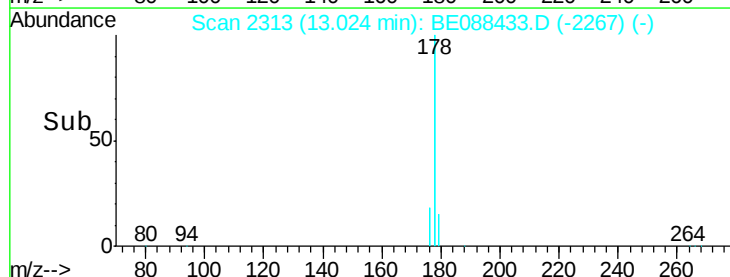
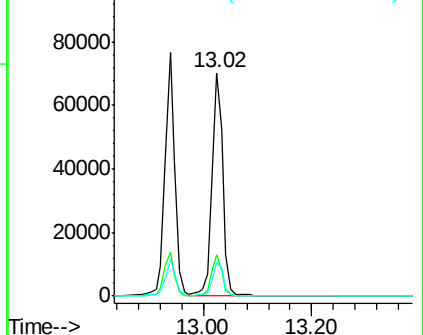
179 15.6 12.5 18.7

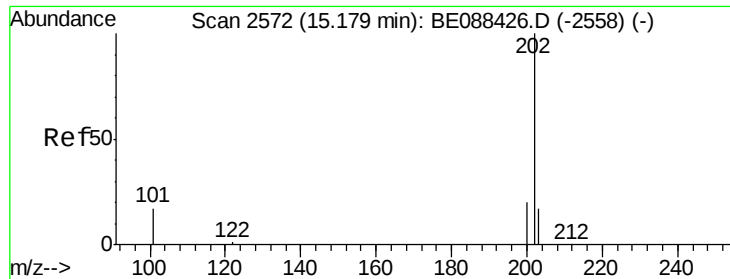


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

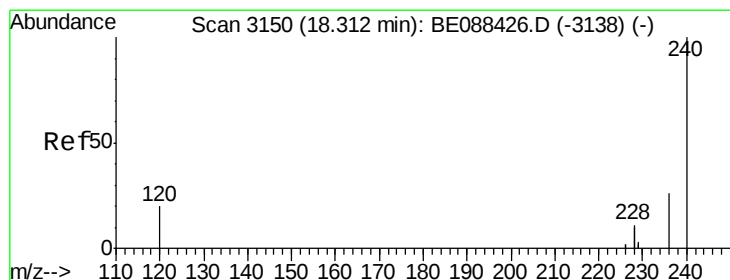
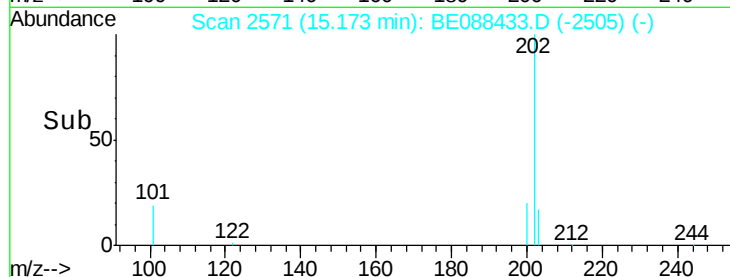
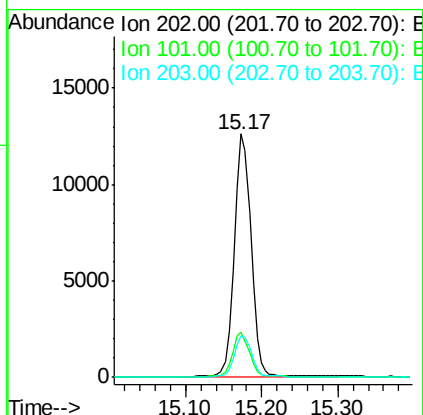
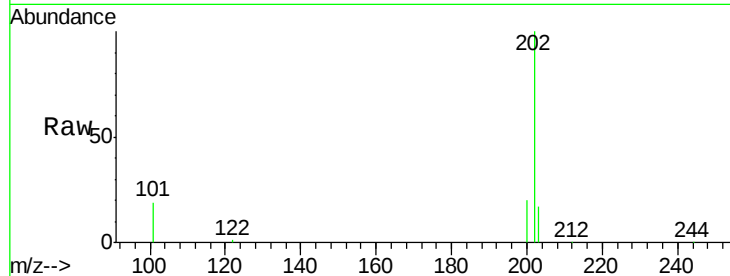




#15
 Fluoranthene
 Concen: 1.03 ng
 RT: 15.17 min Scan# 2571
 Delta R.T. -0.01 min
 Lab File: BE088433.D
 Acq: 31 Oct 2014 21:29

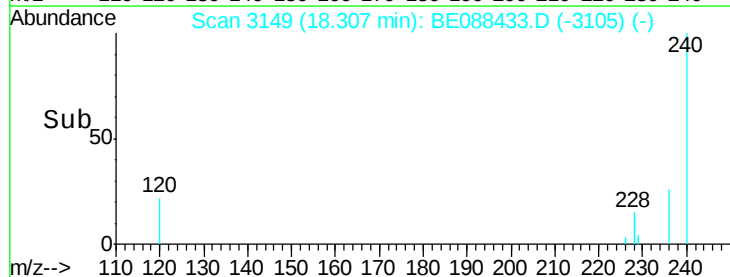
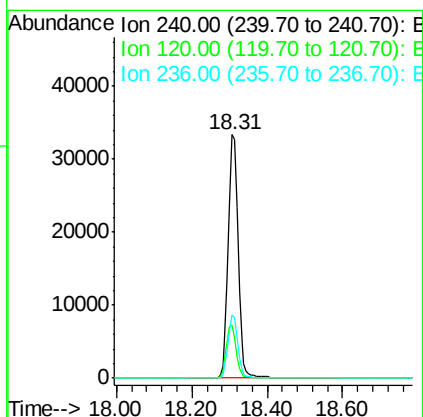
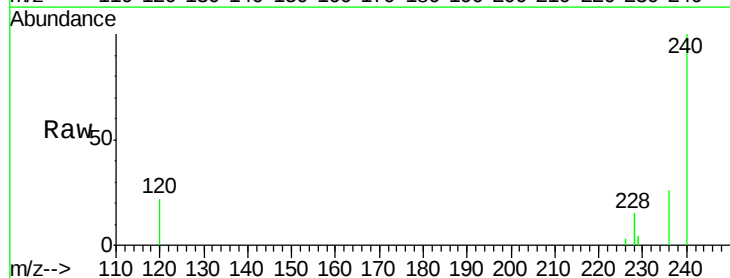
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

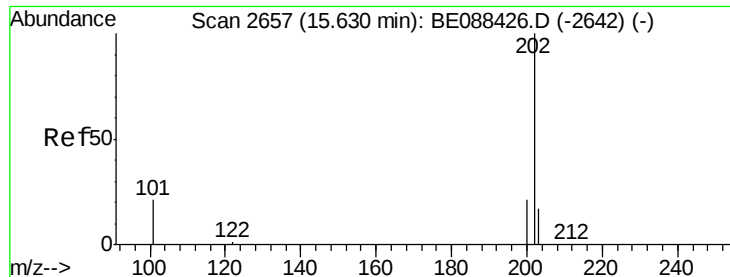
Tgt Ion: 202 Resp: 19092
 Ion Ratio Lower Upper
 202 100
 101 18.0 14.3 21.5
 203 17.0 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.31 min Scan# 3149
 Delta R.T. -0.01 min
 Lab File: BE088433.D
 Acq: 31 Oct 2014 21:29

Tgt Ion: 240 Resp: 59804
 Ion Ratio Lower Upper
 240 100
 120 21.7 16.4 24.6
 236 25.8 20.5 30.7





#17

Pyrene

Concen: 1.03 ng

RT: 15.63 min Scan# 2657

Delta R.T. -0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

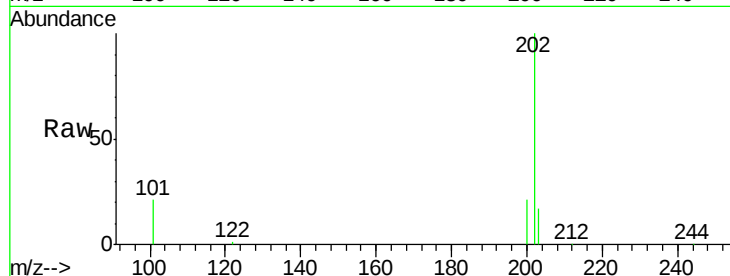
Tgt Ion:202 Resp: 20160

Ion Ratio Lower Upper

202 100

200 20.1 16.1 24.1

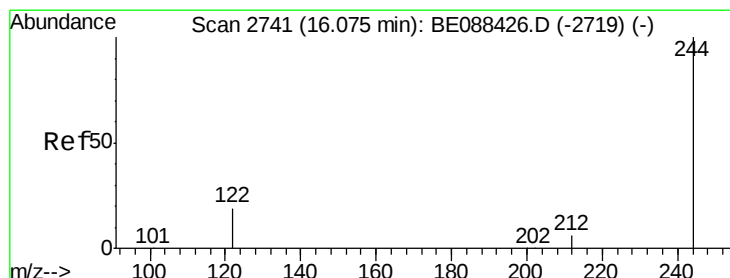
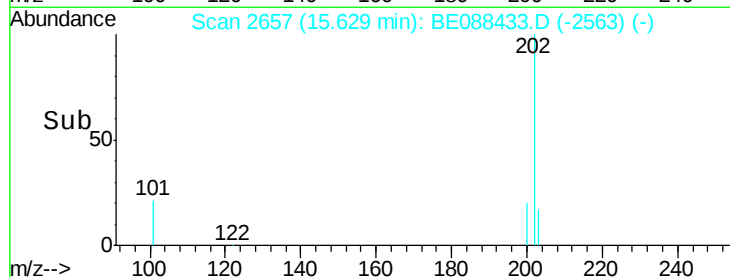
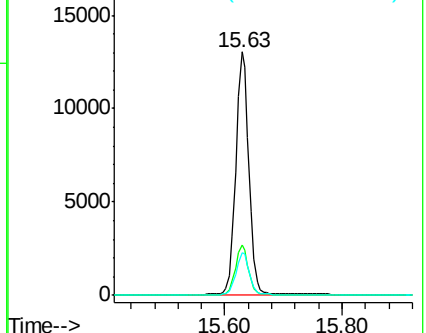
203 17.3 13.8 20.8



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: 1.03 ng

RT: 16.07 min Scan# 2741

Delta R.T. -0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

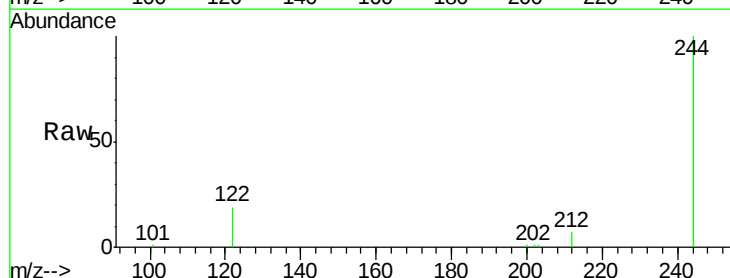
Tgt Ion:244 Resp: 11300

Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

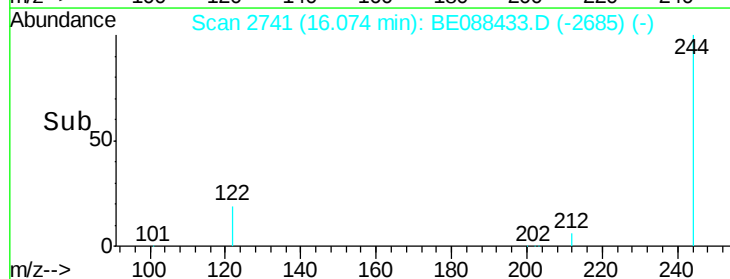
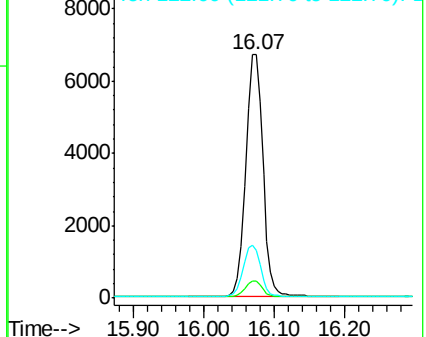
122 19.5 15.6 23.4



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: 1.02 ng

RT: 18.29 min Scan# 3146

Delta R.T. -0.01 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

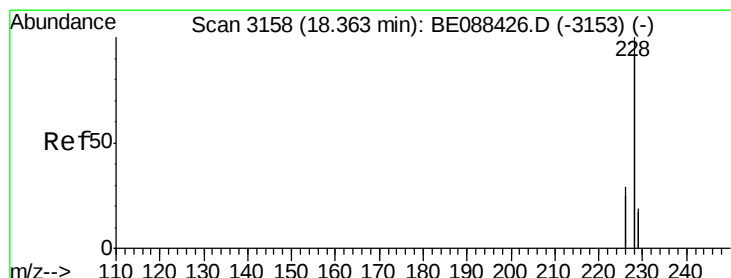
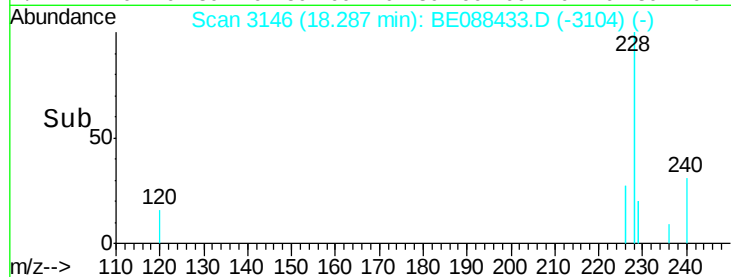
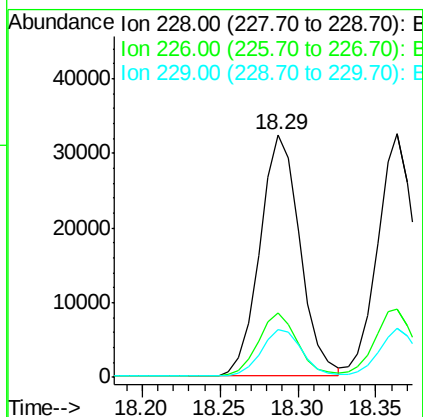
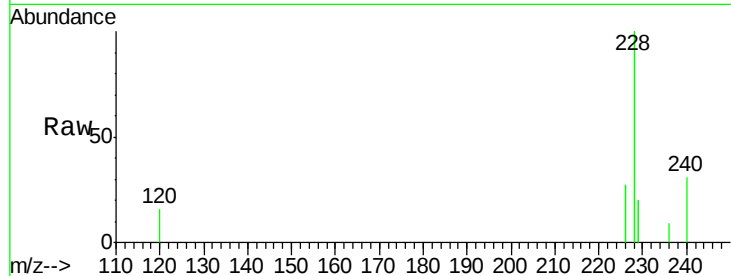
Tgt Ion:228 Resp: 57645

Ion Ratio Lower Upper

228 100

226 26.7 19.8 29.6

229 19.7 16.0 24.0



#20

Chrysene

Concen: 1.04 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

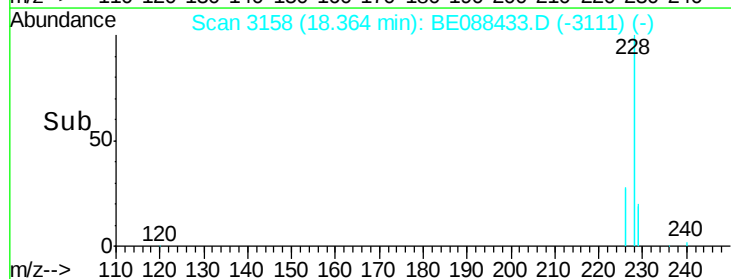
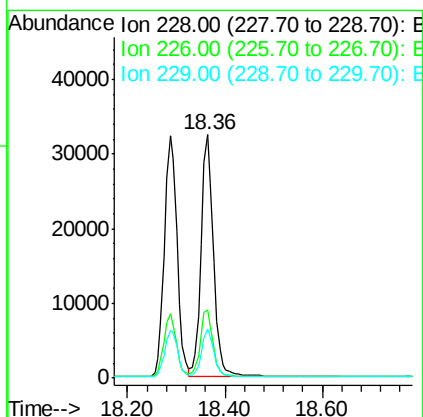
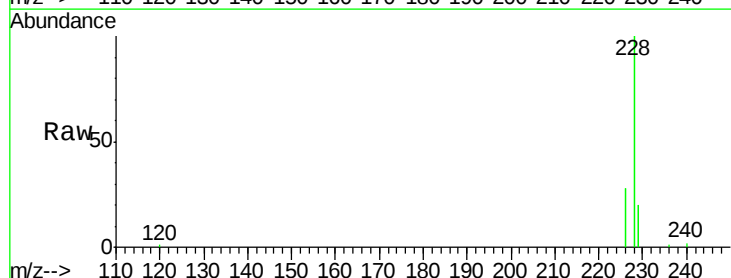
Tgt Ion:228 Resp: 57465

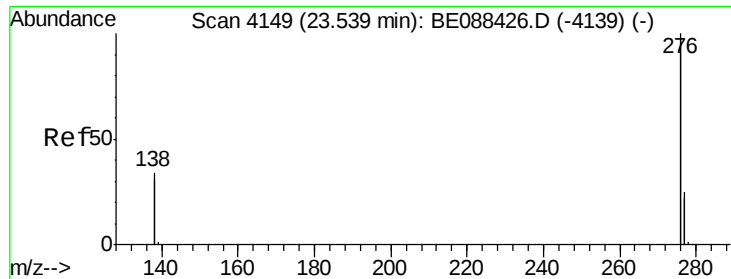
Ion Ratio Lower Upper

228 100

226 28.2 23.6 35.4

229 20.1 15.4 23.2





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.81 ng

RT: 23.54 min Scan# 4149

Delta R.T. -0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

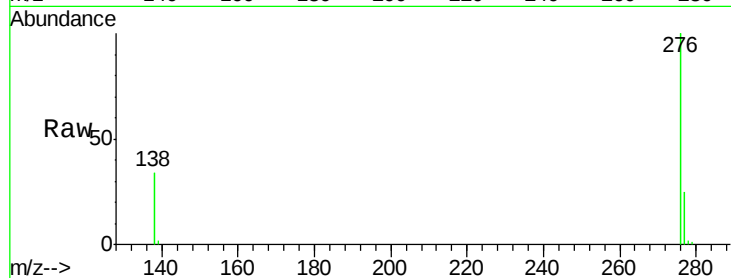
Tgt Ion: 276 Resp: 41882

Ion Ratio Lower Upper

276 100

138 31.8 20.2 30.2#

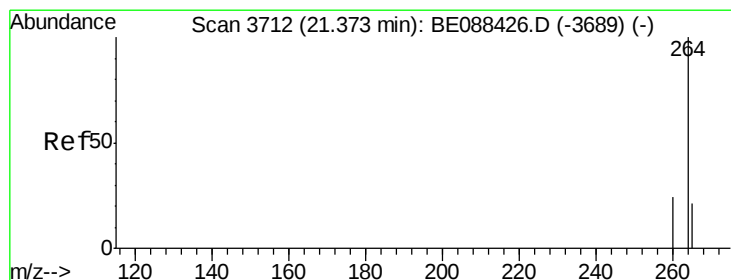
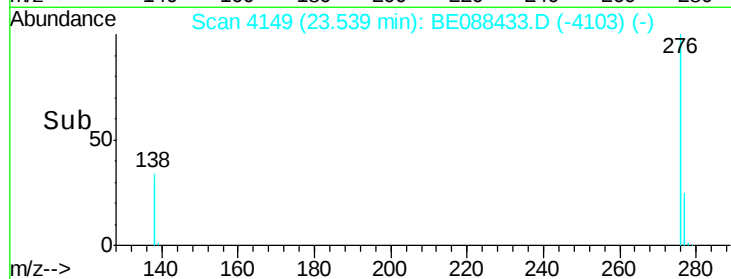
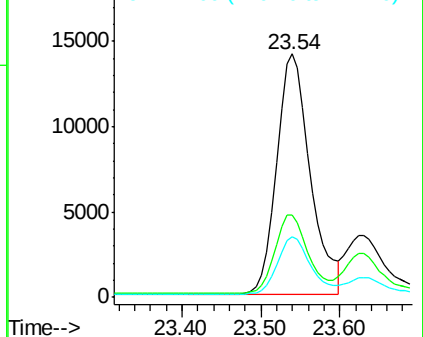
277 23.3 14.8 22.2#



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# 3711

Delta R.T. -0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

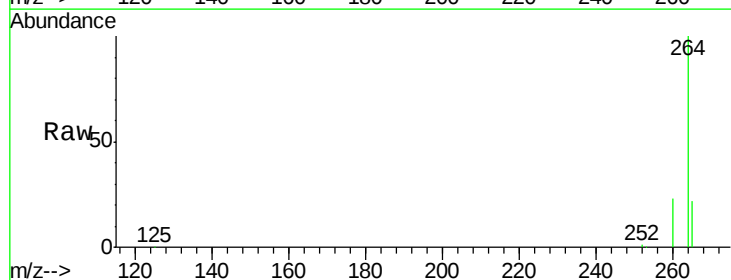
Tgt Ion: 264 Resp: 53387

Ion Ratio Lower Upper

264 100

260 23.4 18.9 28.3

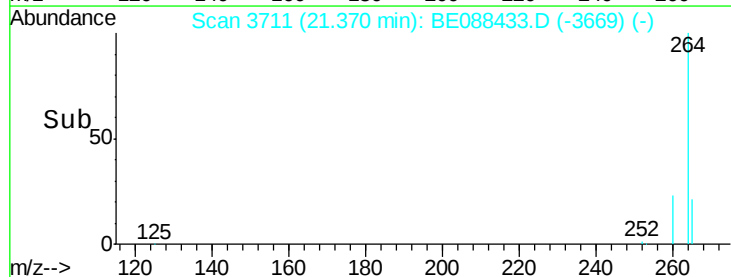
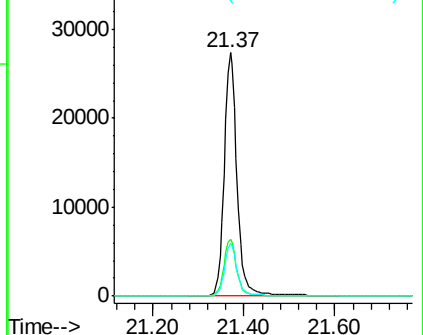
265 21.6 17.2 25.8



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: 1.04 ng

RT: 20.61 min Scan# 3544

Delta R.T. -0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

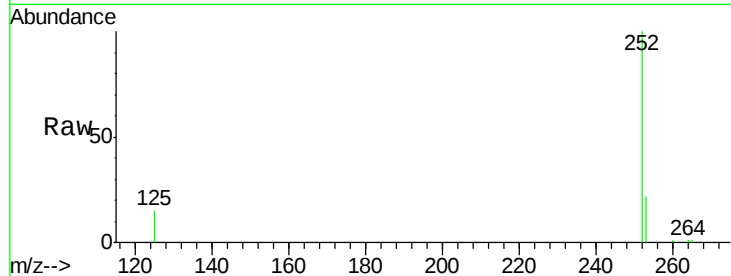
Tgt Ion:252 Resp: 12128

Ion Ratio Lower Upper

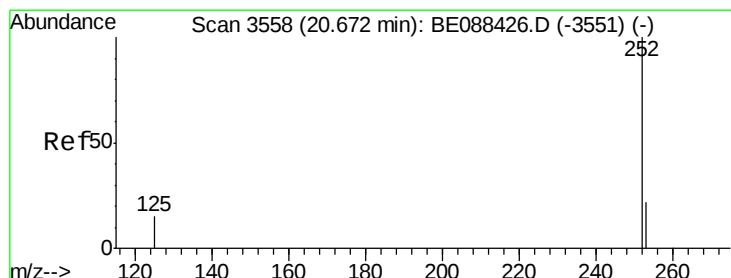
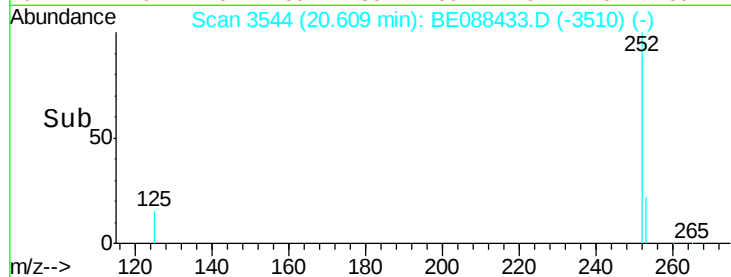
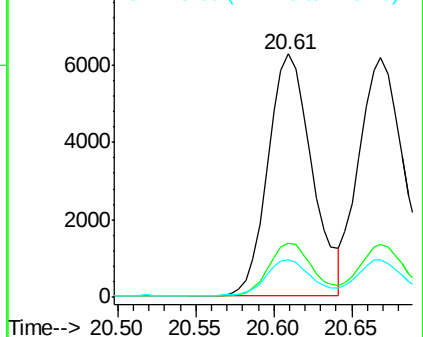
252 100

253 22.4 17.8 26.8

125 15.5 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: 1.03 ng

RT: 20.67 min Scan# 3557

Delta R.T. -0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

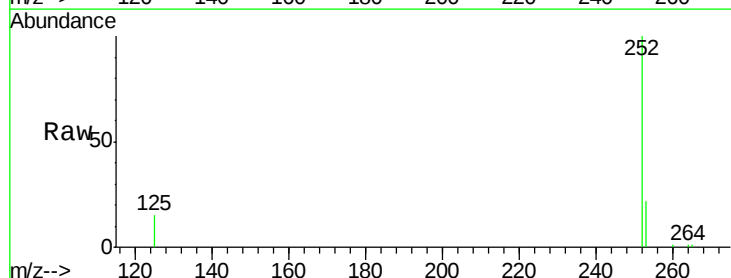
Tgt Ion:252 Resp: 13279

Ion Ratio Lower Upper

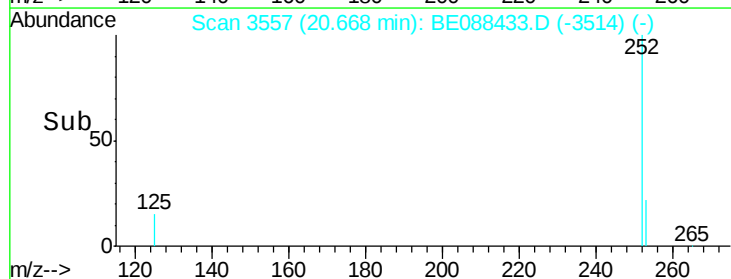
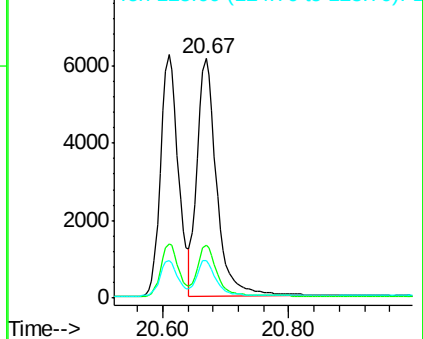
252 100

253 22.3 17.8 26.8

125 15.5 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: 1.03 ng

RT: 21.25 min Scan# 3685

Delta R.T. -0.00 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

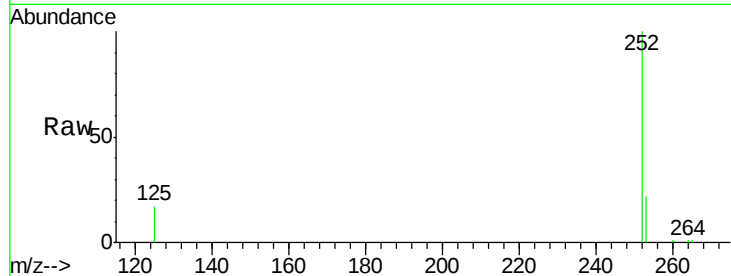
Tgt Ion:252 Resp: 11593

Ion Ratio Lower Upper

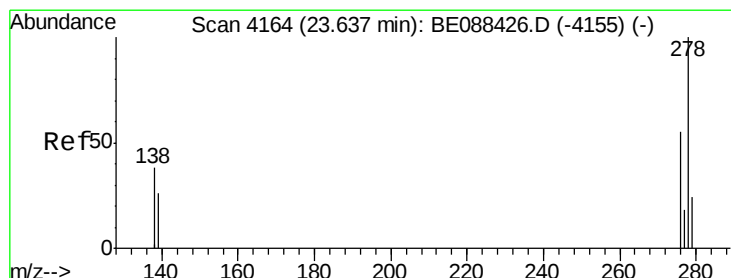
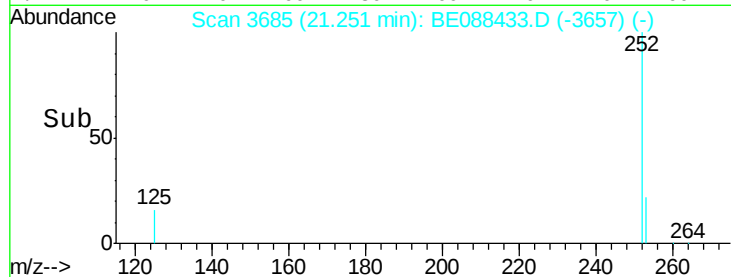
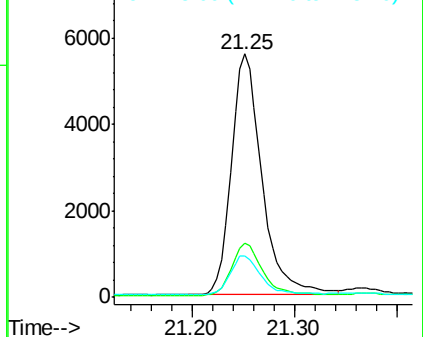
252 100

253 22.4 18.2 27.4

125 17.1 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: 1.03 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.01 min

Lab File: BE088433.D

Acq: 31 Oct 2014 21:29

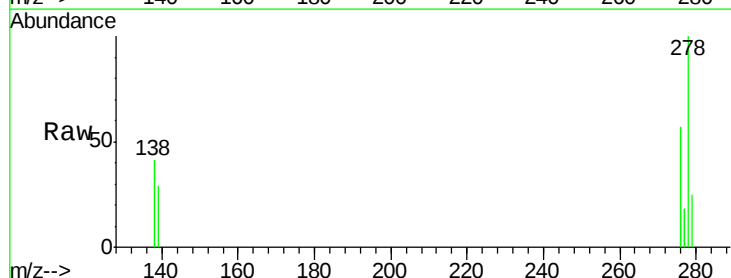
Tgt Ion:278 Resp: 10740

Ion Ratio Lower Upper

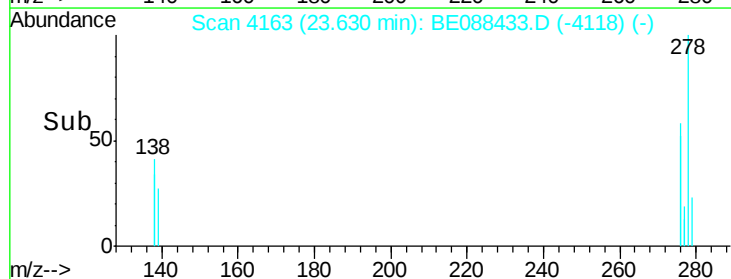
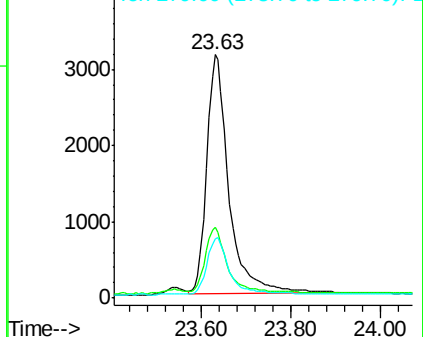
278 100

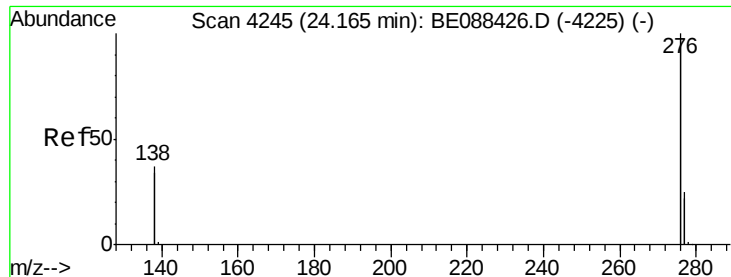
139 29.0 22.1 33.1

279 24.5 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: 1.03 ng

RT: 24.16 min Scan# 4244

Delta R.T. -0.01 min

Lab File: BE088433.D

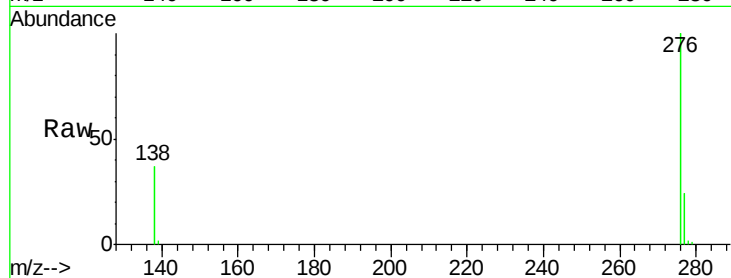
Acq: 31 Oct 2014 21:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001



Tgt Ion: 276 Resp: 49175

Ion Ratio Lower Upper

276 100

277 24.4 19.8 29.6

138 37.3 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

