

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088426.D
 Acq On : 31 Oct 2014 17:01
 Operator : TP/JJ
 Sample : SSTDICCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC001

Quant Time: Nov 01 00:25:08 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	39143	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	150954	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	71050	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	133334	5.00	ng	0.00
16) Chrysene-d12	18.31	240	64490	5.00	ng	0.00
22) Perylene-d12	21.37	264	55480	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.77	82	11444	1.04	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	20894	1.03	ng	0.00
18) Terphenyl-d14	16.07	244	12306	1.04	ng	0.00

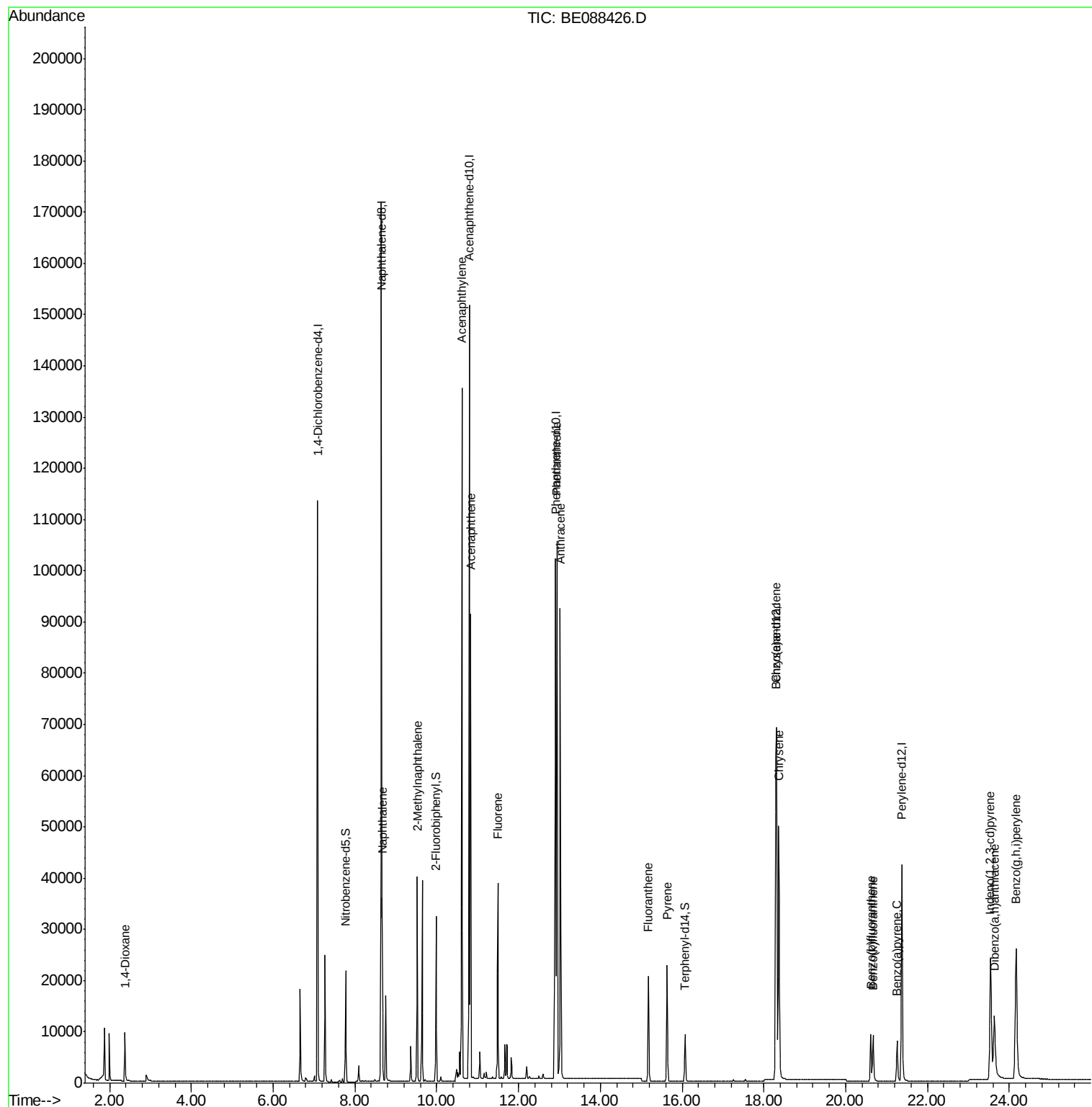
Target Compounds					Qvalue	
2) 1,4-Dioxane	2.37	88	5315	1.04	ng	100
5) Naphthalene	8.67	128	32464	1.03	ng	100
6) 2-Methylnaphthalene	9.52	142	20236	1.03	ng	100
9) Acenaphthylene	10.62	152	118460	1.01	ng	100
10) Acenaphthene	10.84	154	17434	1.00	ng	100
11) Fluorene	11.49	166	19221	1.05	ng	100
13) Phenanthrene	12.94	178	138247	1.02	ng	100
14) Anthracene	13.02	178	101356	1.03	ng	100
15) Fluoranthene	15.18	202	20820	1.06	ng	100
17) Pyrene	15.63	202	22109	1.05	ng	100
19) Benzo(a)anthracene	18.29	228	61717	1.02	ng	100
20) Chrysene	18.36	228	61398	1.03	ng	100
21) Indeno(1,2,3-cd)pyrene	23.54	276	43517	0.77	ng	# 87
23) Benzo(b)fluoranthene	20.61	252	12531	1.04	ng	100
24) Benzo(k)fluoranthene	20.67	252	14161	1.05	ng	100
25) Benzo(a)pyrene	21.25	252	12052	1.04	ng	100
26) Dibenzo(a,h)anthracene	23.64	278	11222	1.04	ng	100
27) Benzo(g,h,i)perylene	24.17	276	50831	1.02	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: 7.09 min Scan# 1246

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

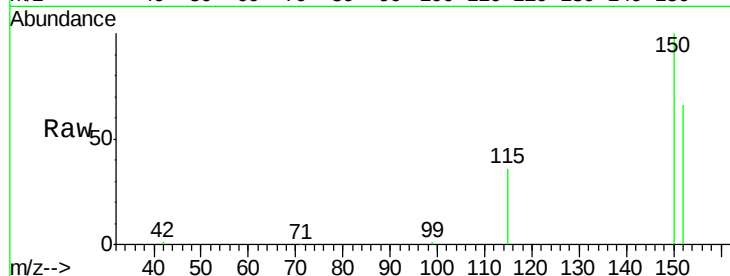
Tgt Ion:152 Resp: 39143

Ion Ratio Lower Upper

152 100

150 152.3 121.8 182.8

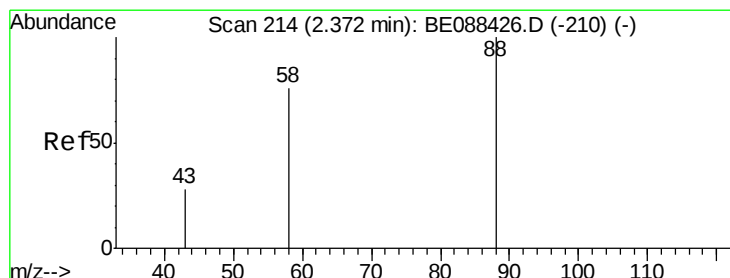
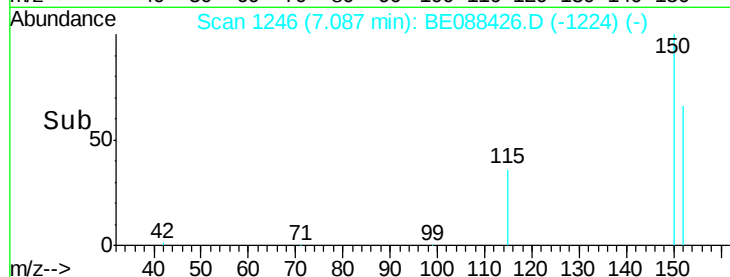
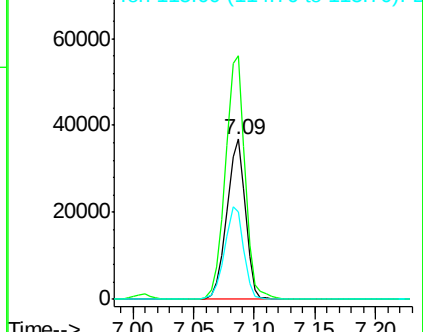
115 54.9 43.9 65.9



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: 1.04 ng

RT: 2.37 min Scan# 214

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

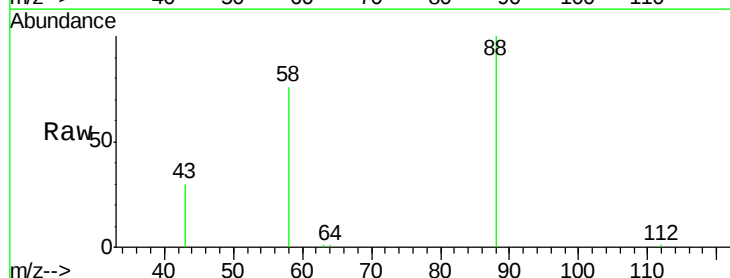
Tgt Ion: 88 Resp: 5315

Ion Ratio Lower Upper

88 100

58 73.9 59.1 88.7

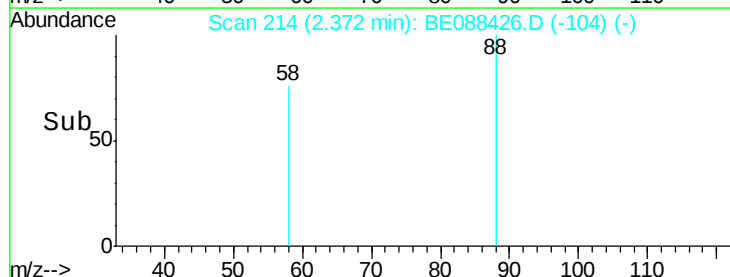
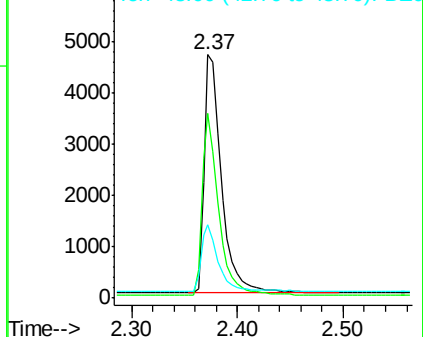
43 27.4 21.9 32.9

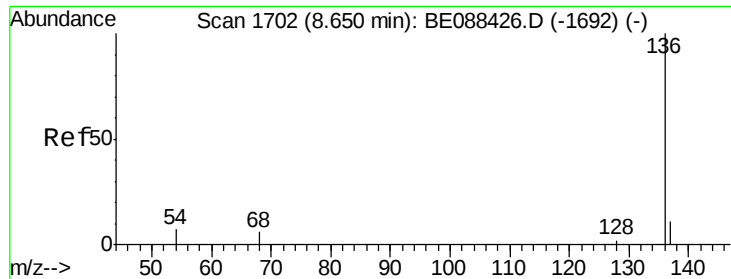


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.65 min Scan# 1702

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

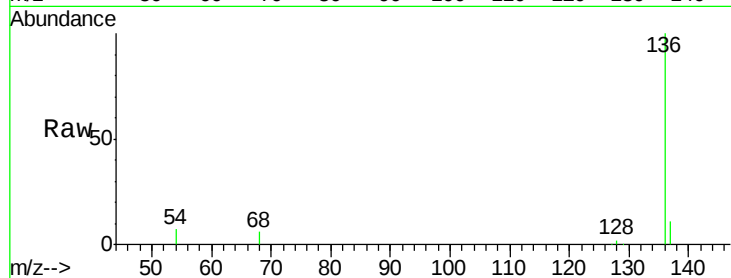
Tgt Ion:136 Resp: 150954

Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

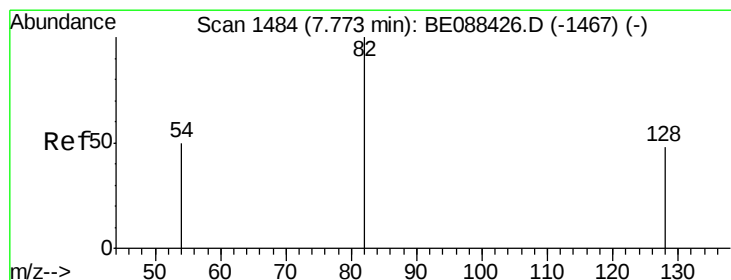
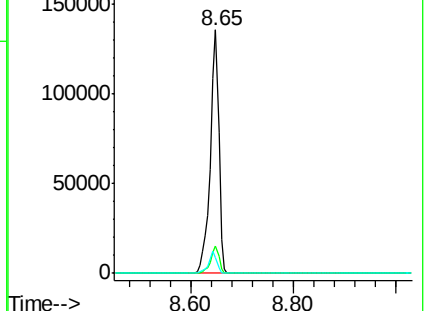
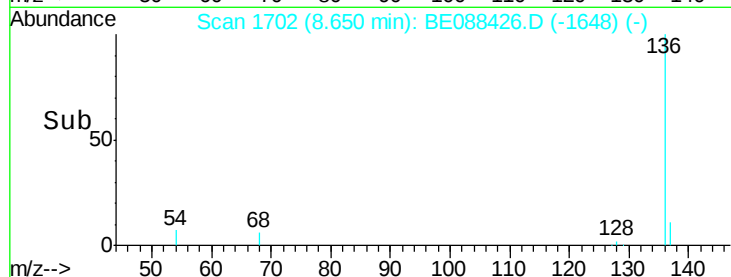
54 6.6 5.3 7.9



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: BE088426.D

Acq: 31 Oct 2014 17:01

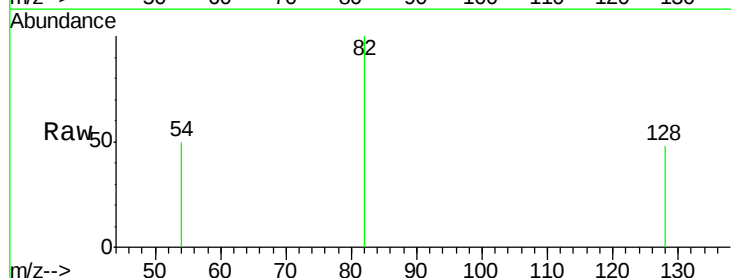
Tgt Ion: 82 Resp: 11444

Ion Ratio Lower Upper

82 100

128 48.0 38.4 57.6

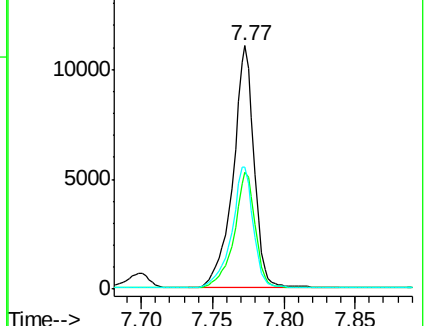
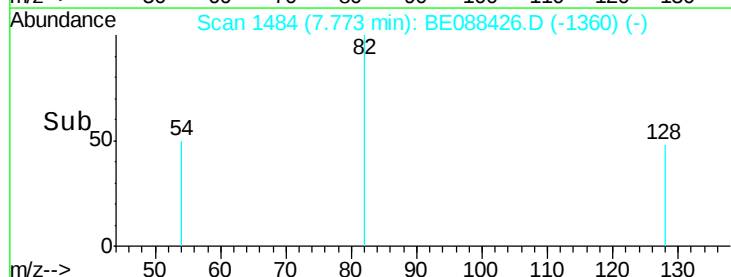
54 50.2 40.2 60.2



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: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

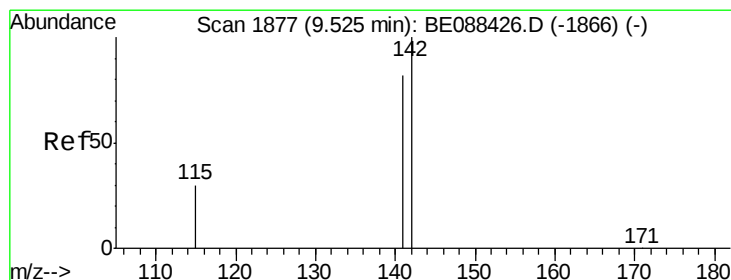
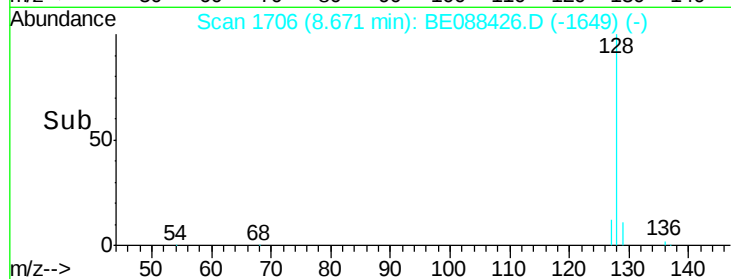
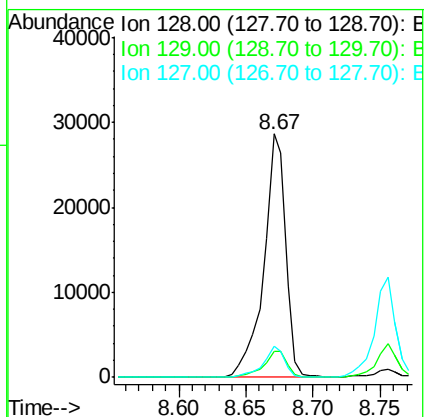
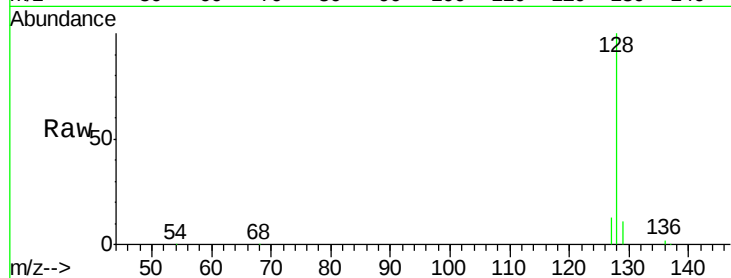
Tgt Ion:128 Resp: 32464

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

127 12.6 10.1 15.1



#6

2-Methylnaphthalene

Concen: 1.03 ng

RT: 9.52 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

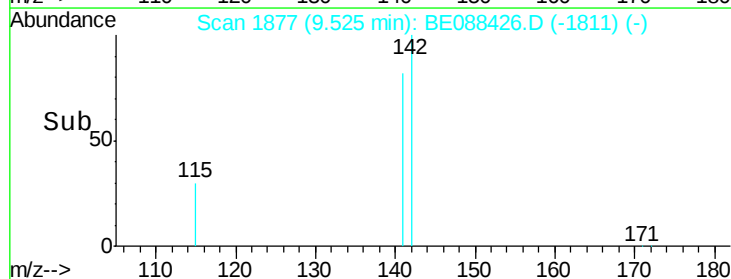
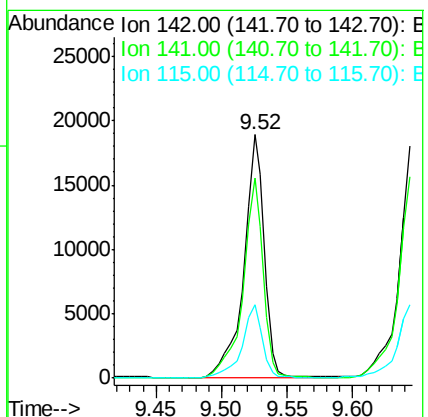
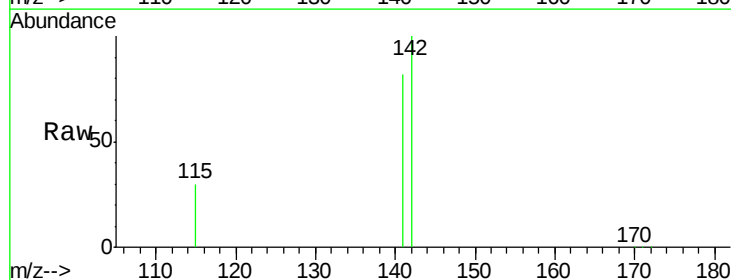
Tgt Ion:142 Resp: 20236

Ion Ratio Lower Upper

142 100

141 82.3 65.8 98.8

115 30.3 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: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

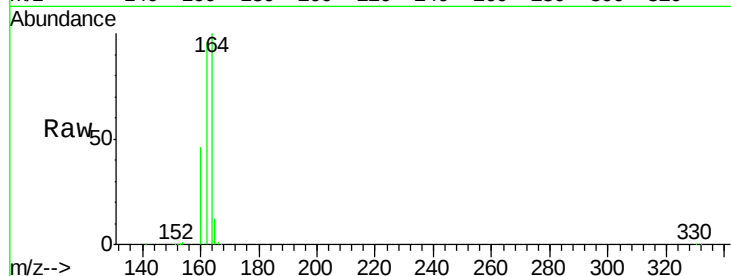
BNA_E

ClientSampleId :

SSTDICCC001

Tgt Ion:164 Resp: 71050

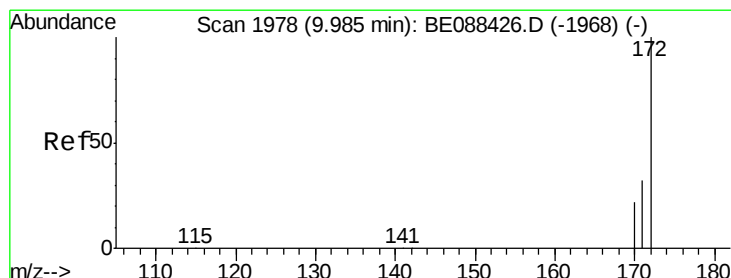
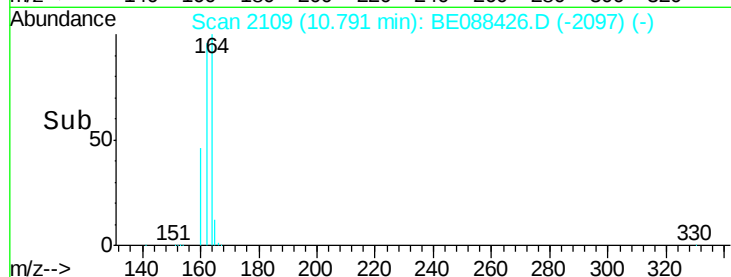
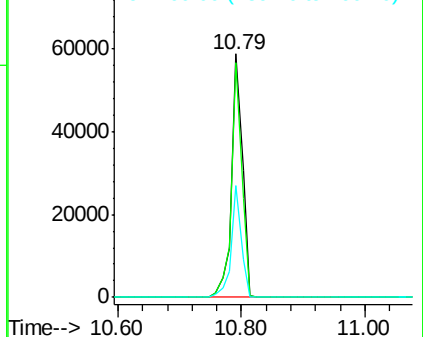
Ion	Ratio	Lower	Upper
164	100		
162	96.2	77.0	115.4
160	46.0	36.8	55.2



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: 1.03 ng

RT: 9.98 min Scan# 1978

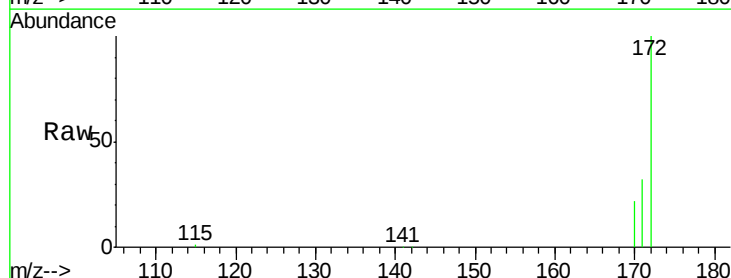
Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Tgt Ion:172 Resp: 20894

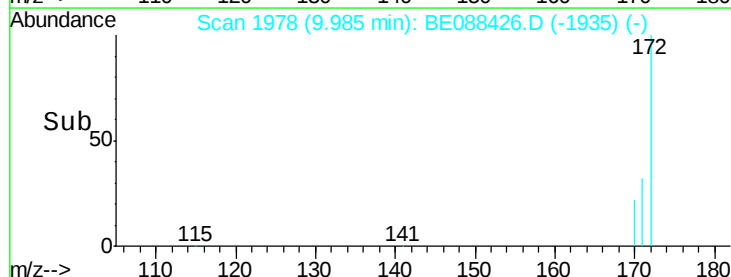
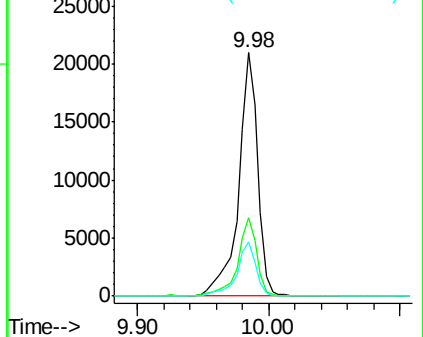
Ion	Ratio	Lower	Upper
172	100		
171	32.5	26.0	39.0
170	22.0	17.6	26.4

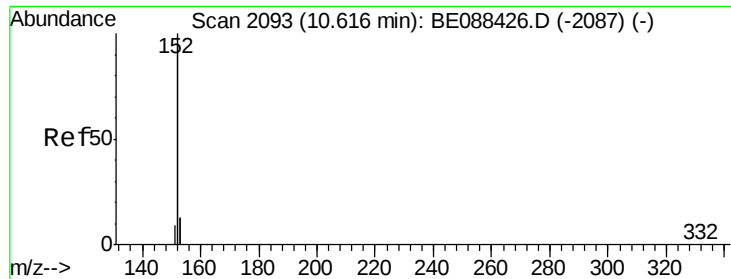


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.01 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

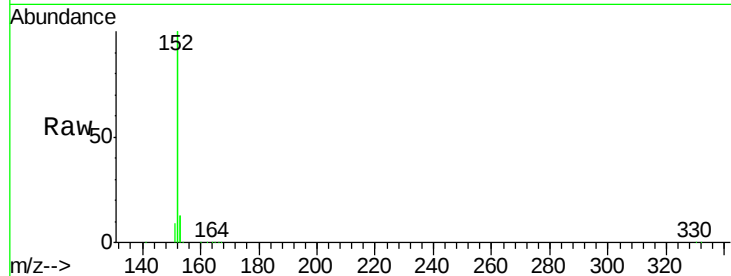
Tgt Ion:152 Resp: 118460

Ion Ratio Lower Upper

152 100

151 5.5 4.4 6.6

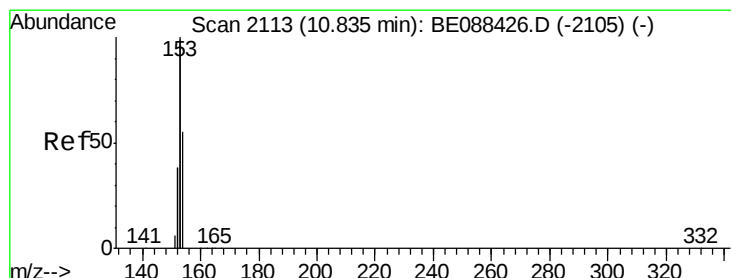
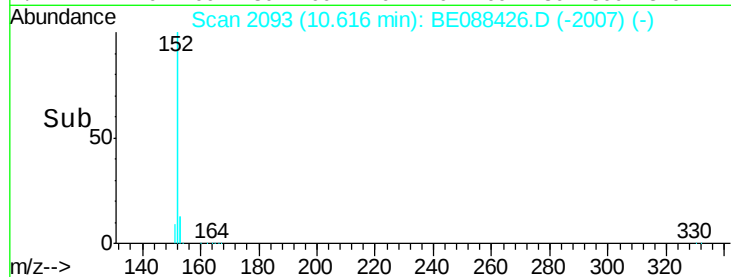
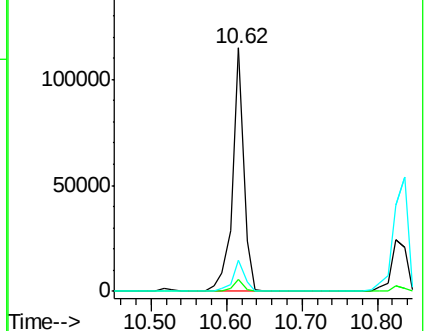
153 13.1 10.5 15.7



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: 1.00 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

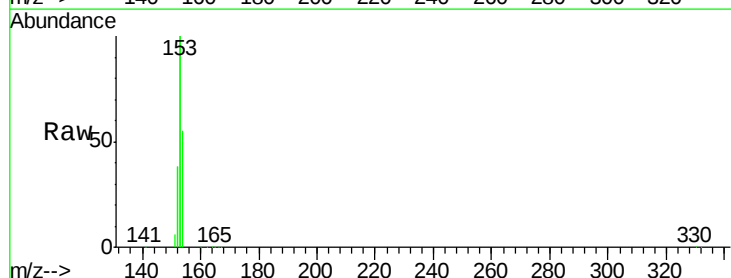
Tgt Ion:154 Resp: 17434

Ion Ratio Lower Upper

154 100

153 405.4 324.3 486.5

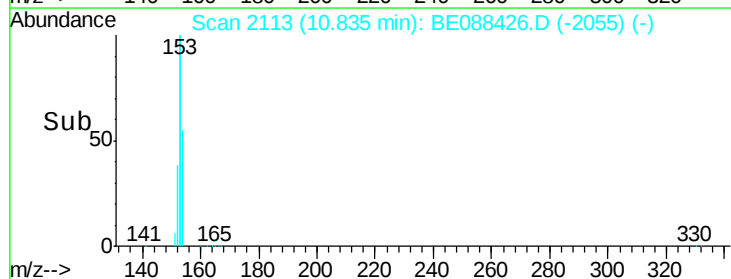
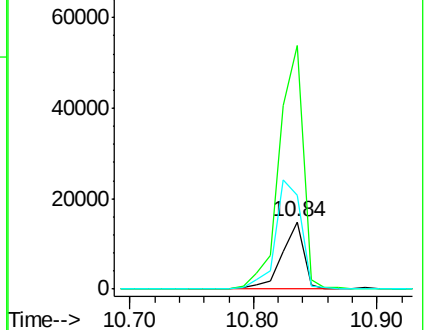
152 193.6 154.9 232.3

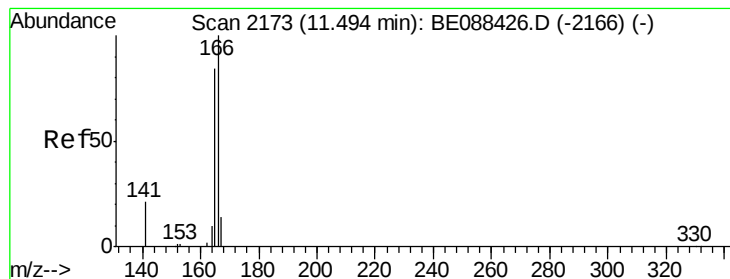


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 1.05 ng

RT: 11.49 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

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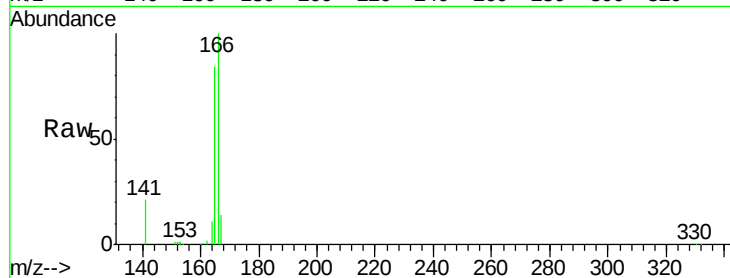
Tgt Ion:166 Resp: 19221

Ion Ratio Lower Upper

166 100

165 89.1 71.3 106.9

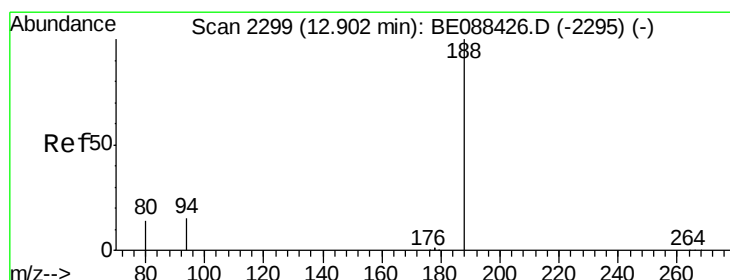
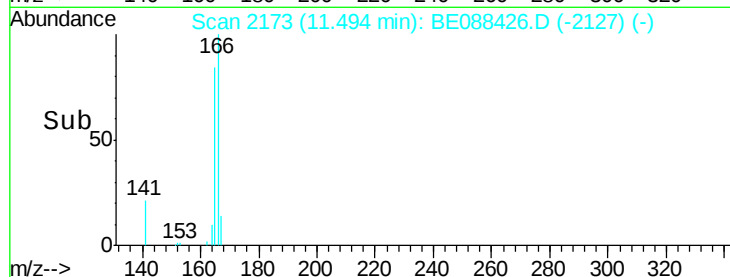
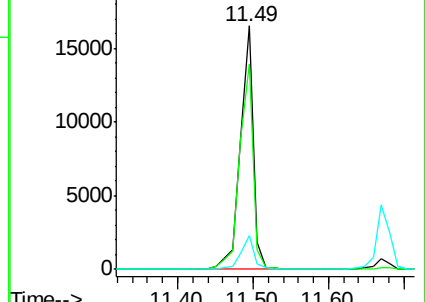
167 13.4 10.7 16.1



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.90 min Scan# 2299

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

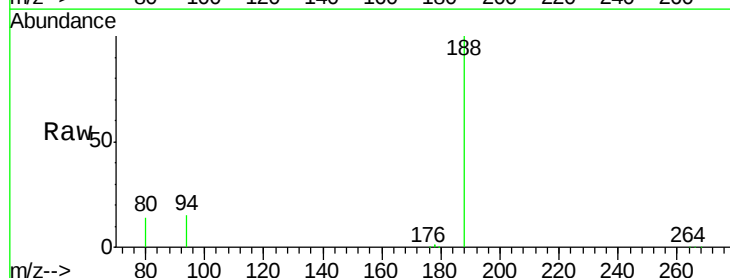
Tgt Ion:188 Resp: 133334

Ion Ratio Lower Upper

188 100

94 14.8 11.8 17.8

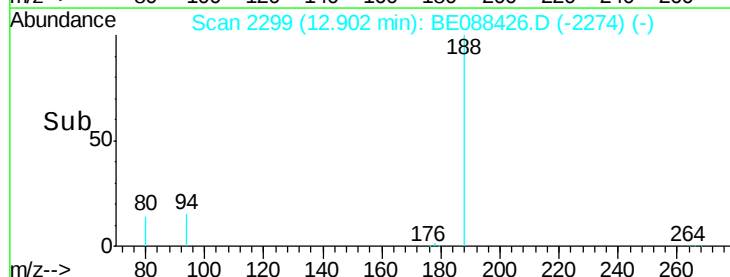
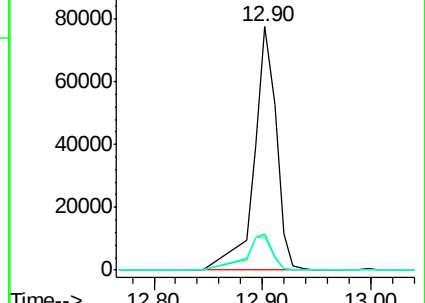
80 13.6 10.9 16.3

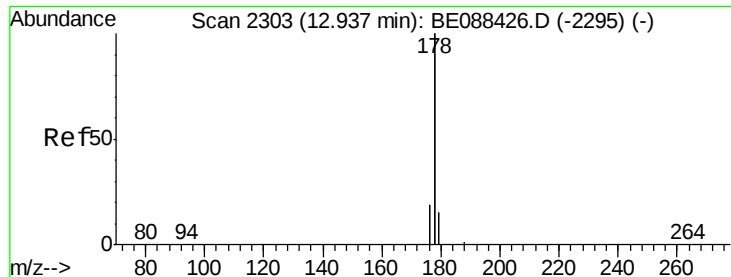


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 1.02 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

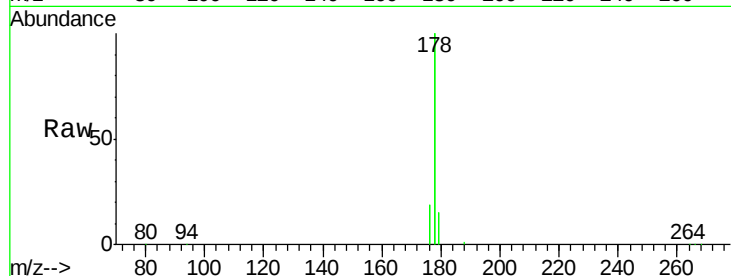
Tgt Ion:178 Resp: 138247

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

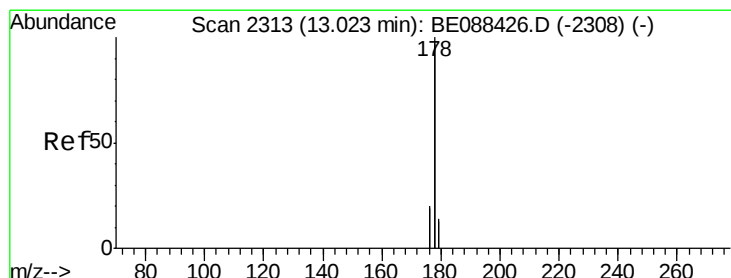
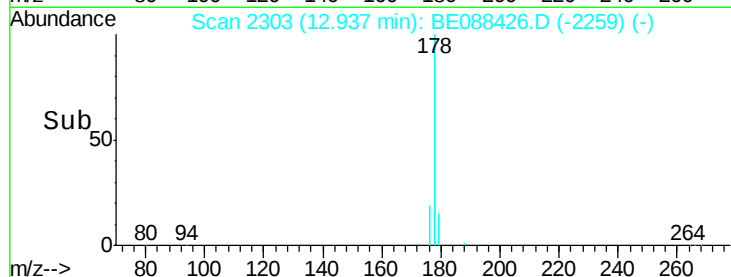
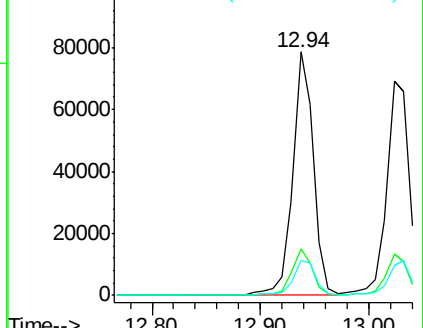
179 16.0 12.8 19.2



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: 1.03 ng

RT: 13.02 min Scan# 2313

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

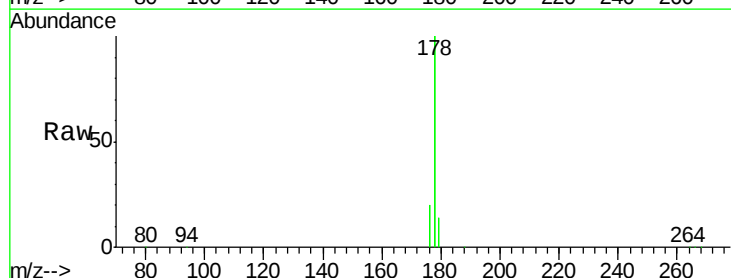
Tgt Ion:178 Resp: 101356

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

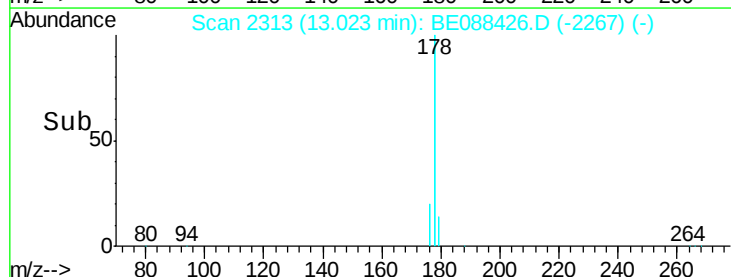
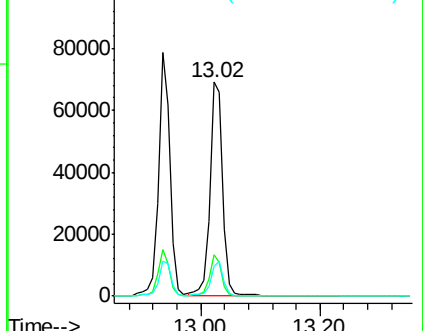
179 15.6 12.5 18.7

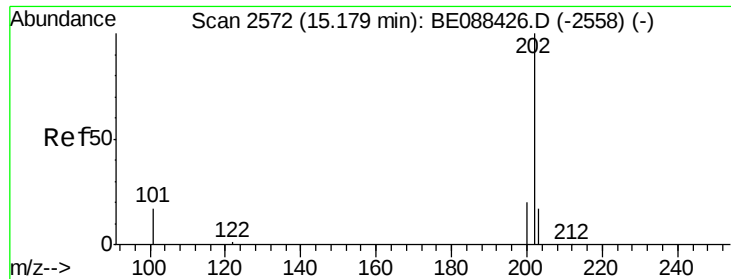


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

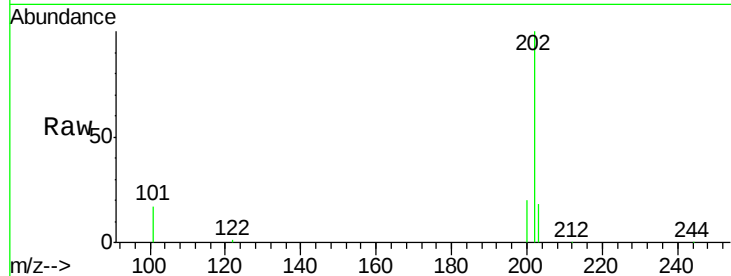




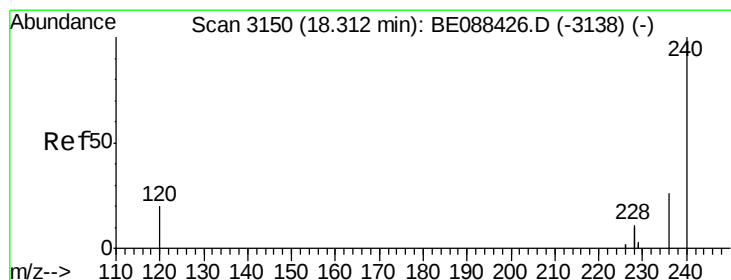
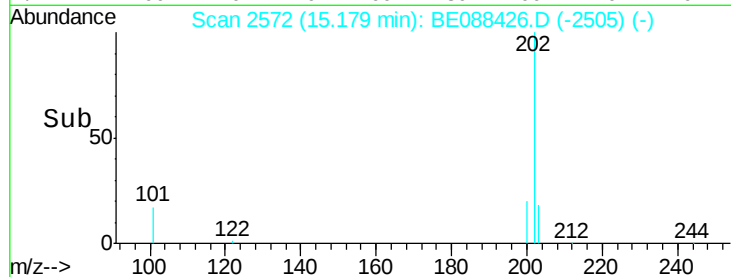
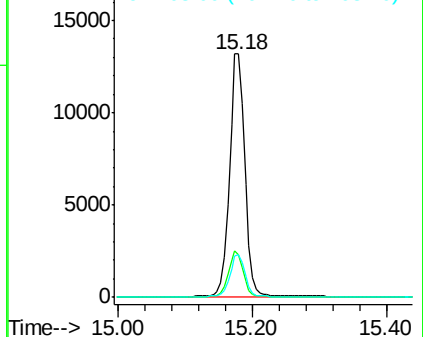
#15
 Fluoranthene
 Concen: 1.06 ng
 RT: 15.18 min Scan# 2572
 Delta R.T. 0.00 min
 Lab File: BE088426.D
 Acq: 31 Oct 2014 17:01

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC001

Tgt Ion: 202 Resp: 20820
 Ion Ratio Lower Upper
 202 100
 101 17.9 14.3 21.5
 203 17.0 13.6 20.4

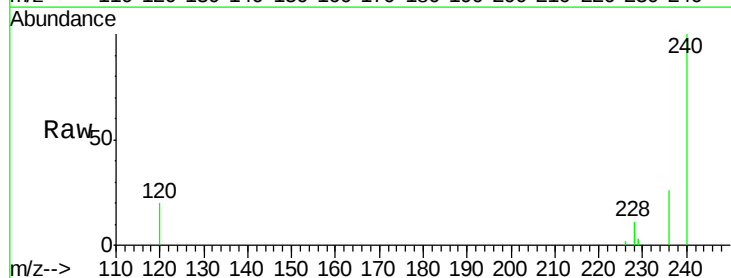


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

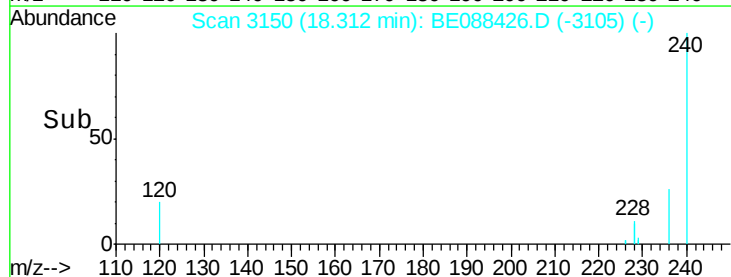
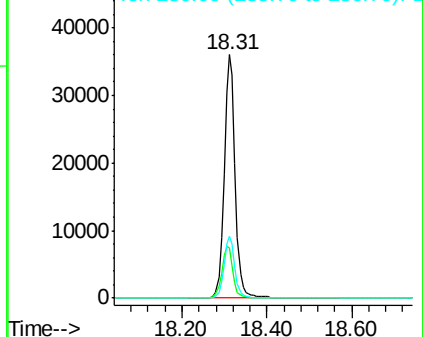


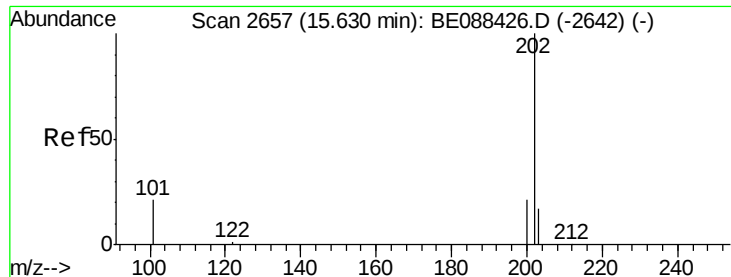
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.31 min Scan# 3150
 Delta R.T. 0.00 min
 Lab File: BE088426.D
 Acq: 31 Oct 2014 17:01

Tgt Ion: 240 Resp: 64490
 Ion Ratio Lower Upper
 240 100
 120 20.5 16.4 24.6
 236 25.6 20.5 30.7



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

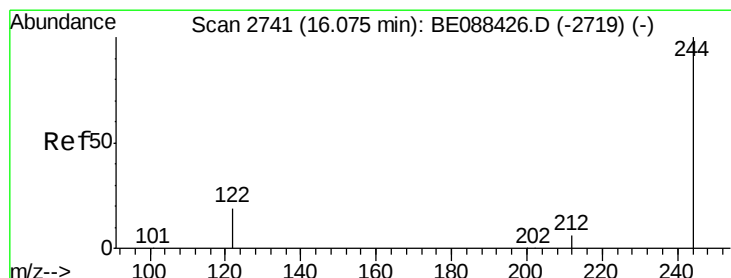
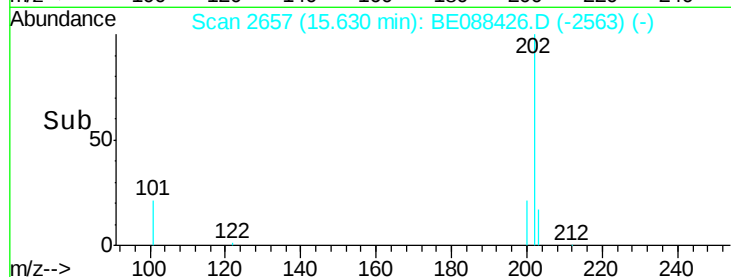
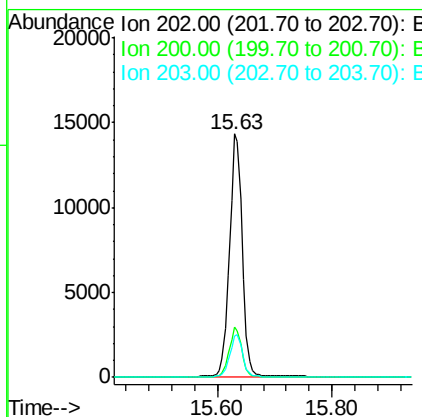
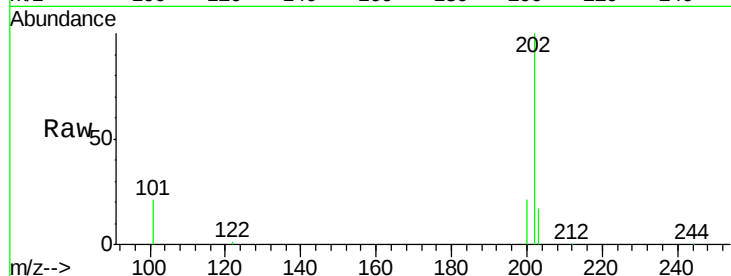




#17
 Pyrene
 Concen: 1.05 ng
 RT: 15.63 min Scan# 2657
 Delta R.T. 0.00 min
 Lab File: BE088426.D
 Acq: 31 Oct 2014 17:01

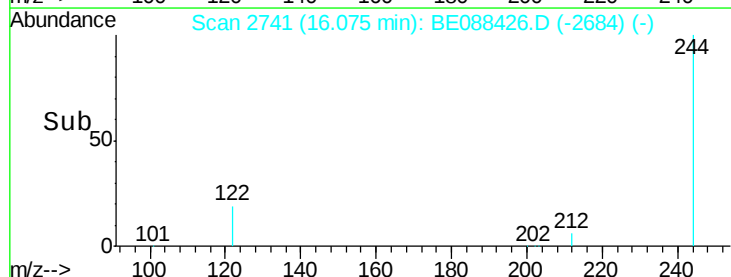
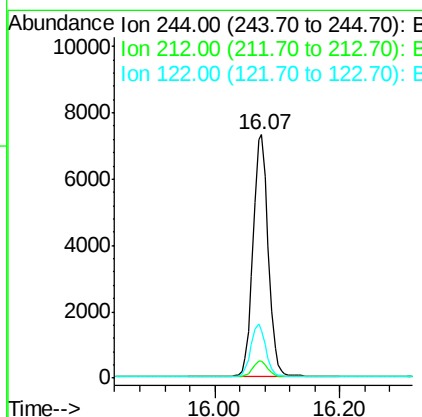
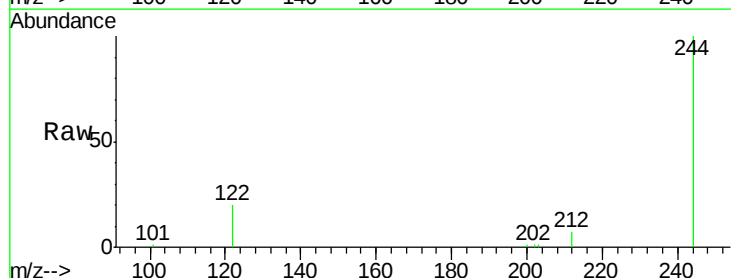
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC001

Tgt Ion: 202 Resp: 22109
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.1 24.1
 203 17.3 13.8 20.8



#18
 Terphenyl-d14
 Concen: 1.04 ng
 RT: 16.07 min Scan# 2741
 Delta R.T. 0.00 min
 Lab File: BE088426.D
 Acq: 31 Oct 2014 17:01

Tgt Ion: 244 Resp: 12306
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 19.5 15.6 23.4





#19

Benzo(a)anthracene

Concen: 1.02 ng

RT: 18.29 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

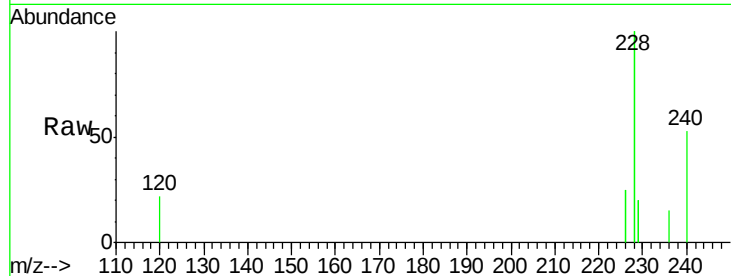
Tgt Ion:228 Resp: 61717

Ion Ratio Lower Upper

228 100

226 24.7 19.8 29.6

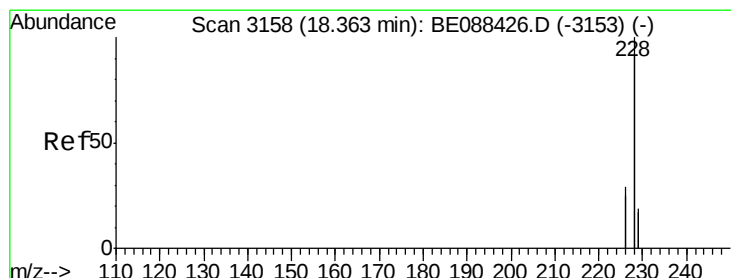
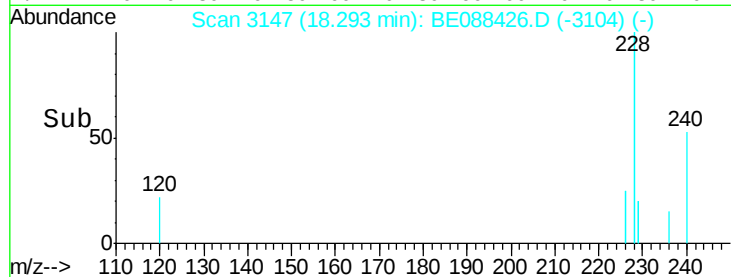
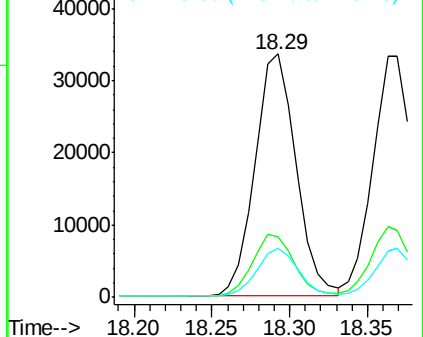
229 20.0 16.0 24.0



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: 1.03 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

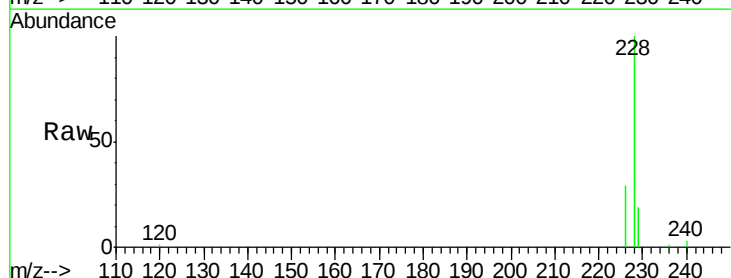
Tgt Ion:228 Resp: 61398

Ion Ratio Lower Upper

228 100

226 29.5 23.6 35.4

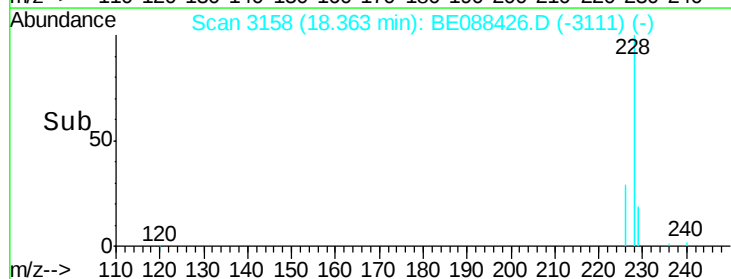
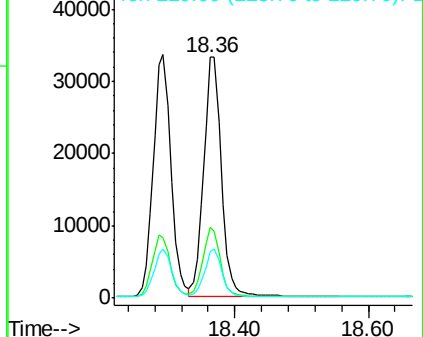
229 19.3 15.4 23.2

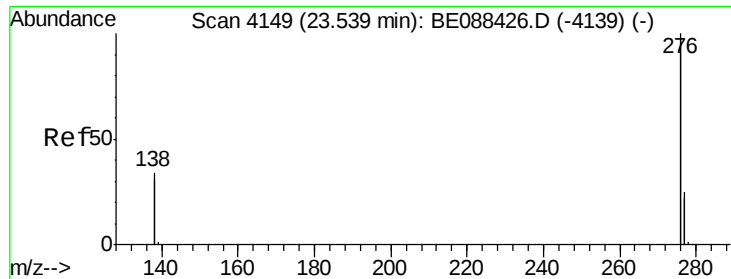


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

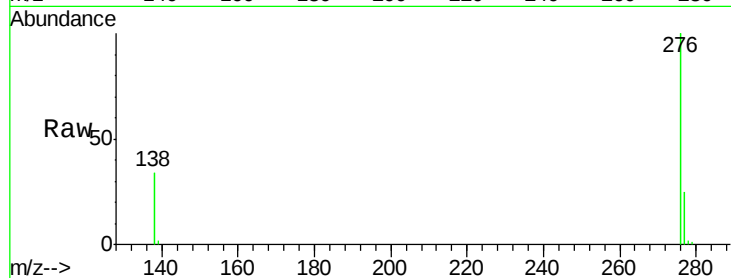




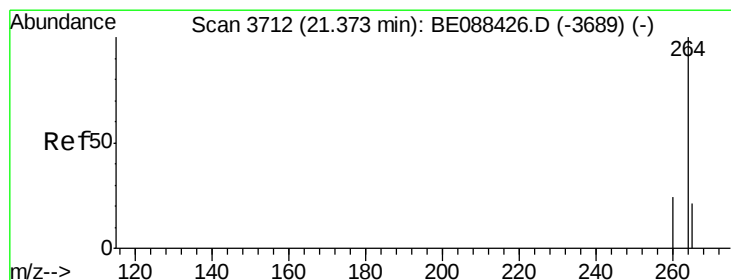
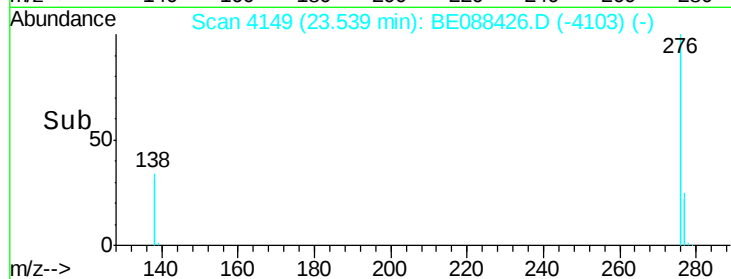
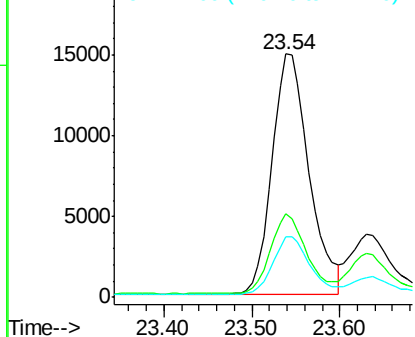
#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.77 ng
 RT: 23.54 min Scan# 4149
 Delta R.T. 0.00 min
 Lab File: BE088426.D
 Acq: 31 Oct 2014 17:01

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC001

Tgt Ion: 276 Resp: 43517
 Ion Ratio Lower Upper
 276 100
 138 32.1 20.2 30.2#
 277 23.6 14.8 22.2#

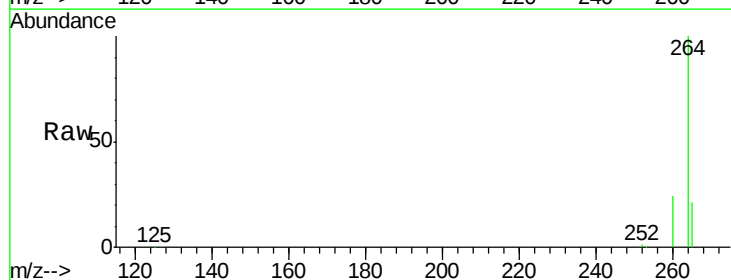


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

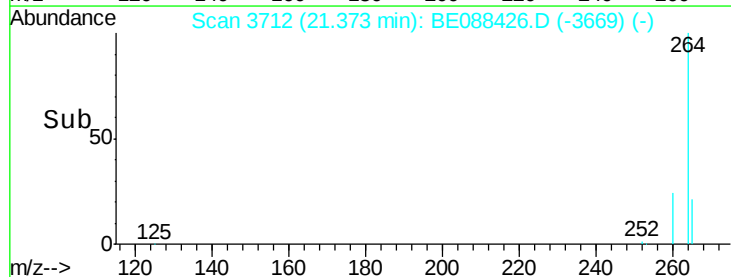
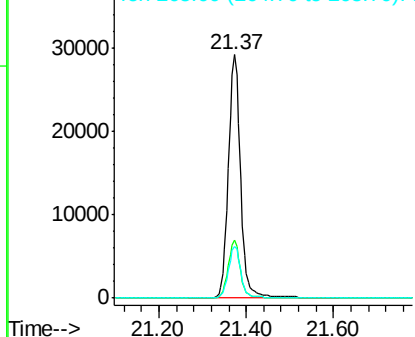


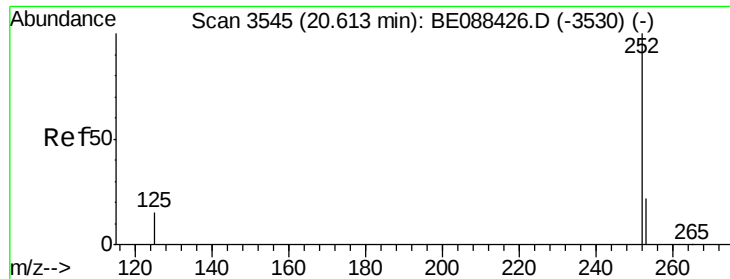
#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.37 min Scan# 3712
 Delta R.T. 0.00 min
 Lab File: BE088426.D
 Acq: 31 Oct 2014 17:01

Tgt Ion: 264 Resp: 55480
 Ion Ratio Lower Upper
 264 100
 260 23.6 18.9 28.3
 265 21.5 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# 3545

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

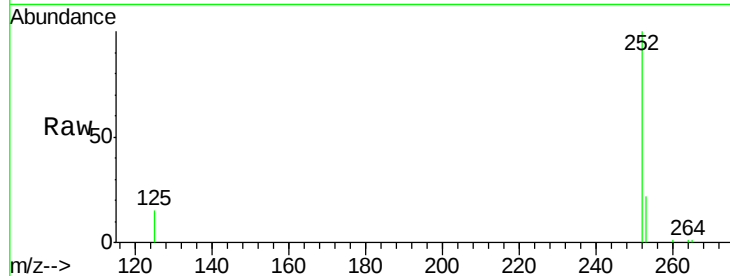
Tgt Ion:252 Resp: 12531

Ion Ratio Lower Upper

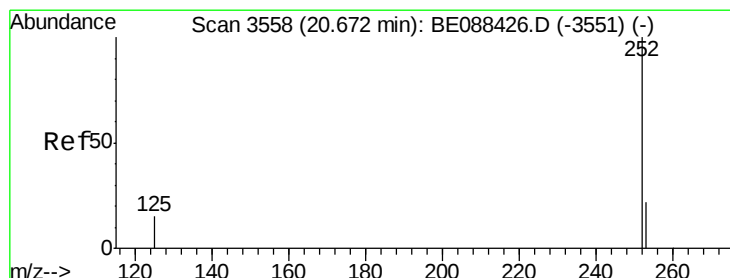
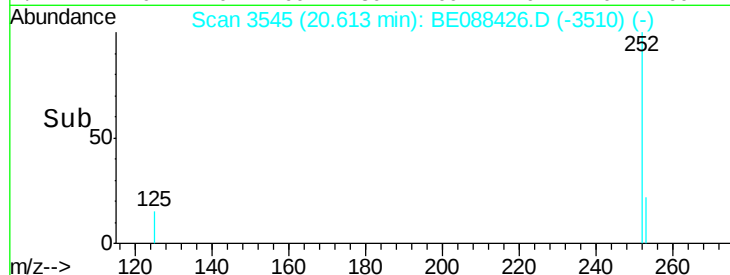
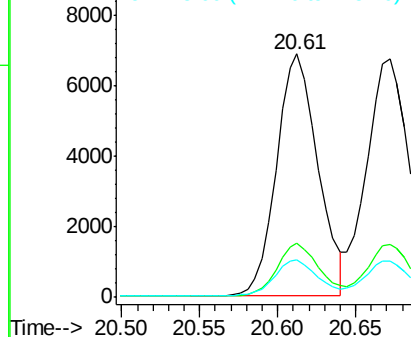
252 100

253 22.3 17.8 26.8

125 15.4 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: 1.05 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

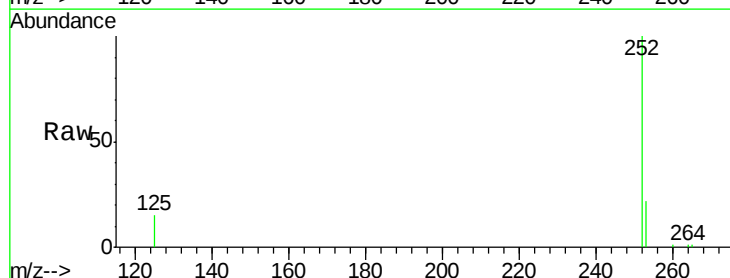
Tgt Ion:252 Resp: 14161

Ion Ratio Lower Upper

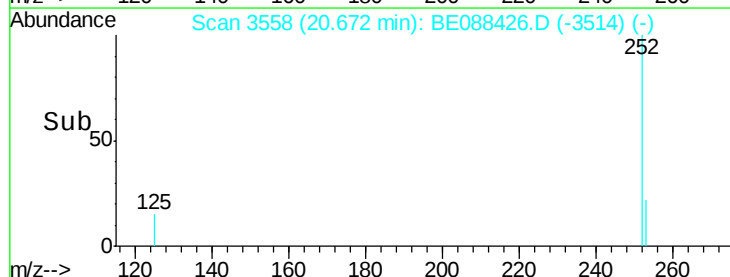
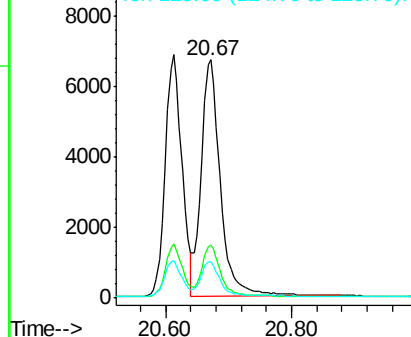
252 100

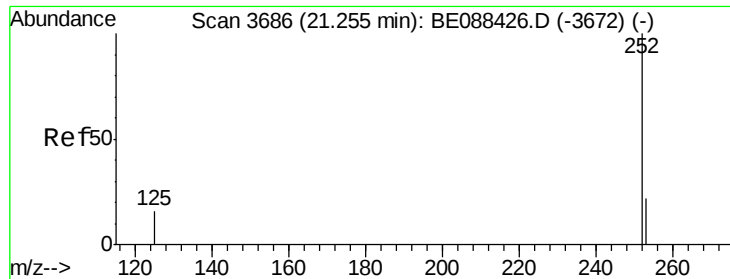
253 22.3 17.8 26.8

125 15.3 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: 1.04 ng

RT: 21.25 min Scan# 3686

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

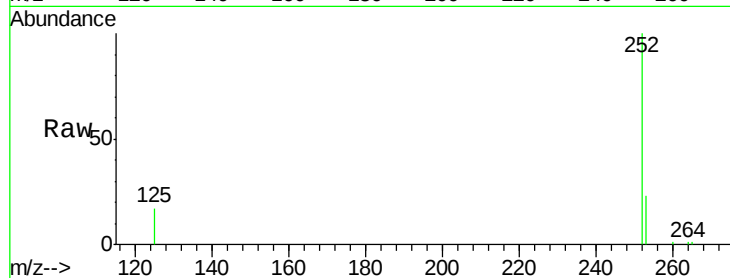
Tgt Ion:252 Resp: 12052

Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.4

125 17.1 13.7 20.5

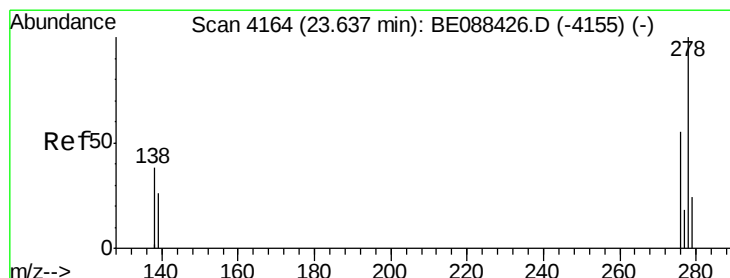
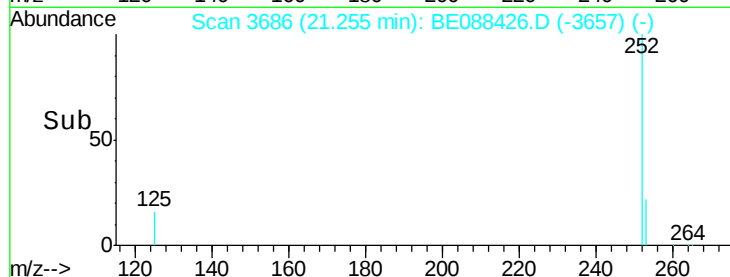
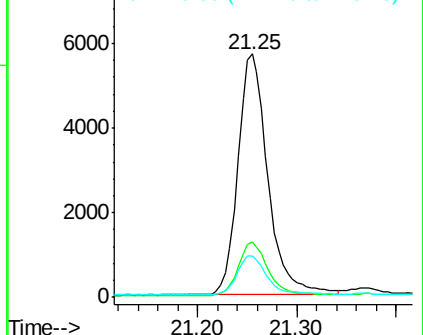


Abundance

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: 1.04 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.00 min

Lab File: BE088426.D

Acq: 31 Oct 2014 17:01

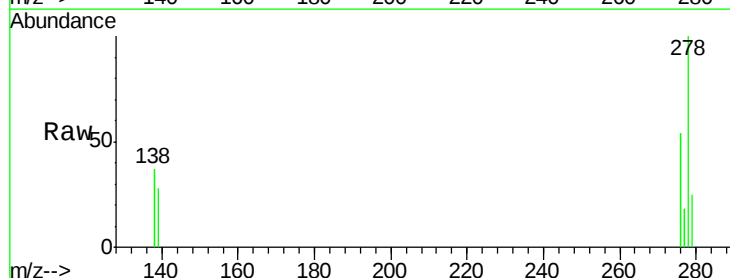
Tgt Ion:278 Resp: 11222

Ion Ratio Lower Upper

278 100

139 27.6 22.1 33.1

279 24.6 19.7 29.5

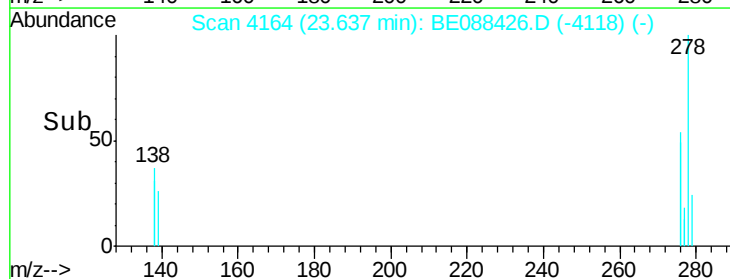
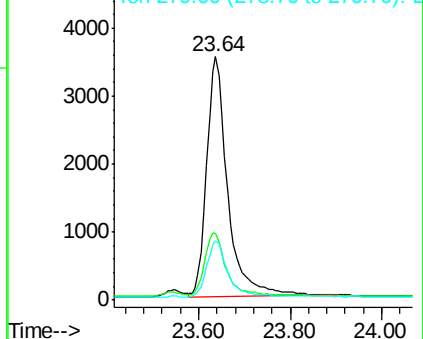


Abundance

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: 1.02 ng

RT: 24.17 min Scan# 4245

Delta R.T. 0.00 min

Lab File: BE088426.D

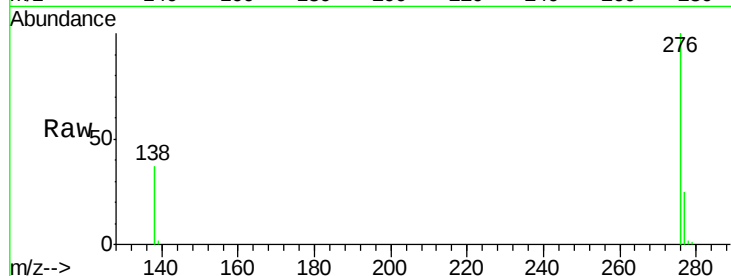
Acq: 31 Oct 2014 17:01

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001



Tgt Ion: 276 Resp: 50831

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.6

138 36.6 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

