

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088209.D
 Acq On : 24 Oct 2014 13:13
 Operator : TP/JJ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Quant Time: Oct 27 12:41:51 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 12:38:23 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	57213	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	216086	5.00	ng	0.00
7) Acenaphthene-d10	10.81	164	95205	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	174050	5.00	ng	0.00
16) Chrysene-d12	18.35	240	101436	5.00	ng	0.00
22) Perylene-d12	21.40	264	90834	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	2168	0.16	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	5578	0.21	ng	0.00
18) Terphenyl-d14	16.11	244	3022	0.18	ng	0.00

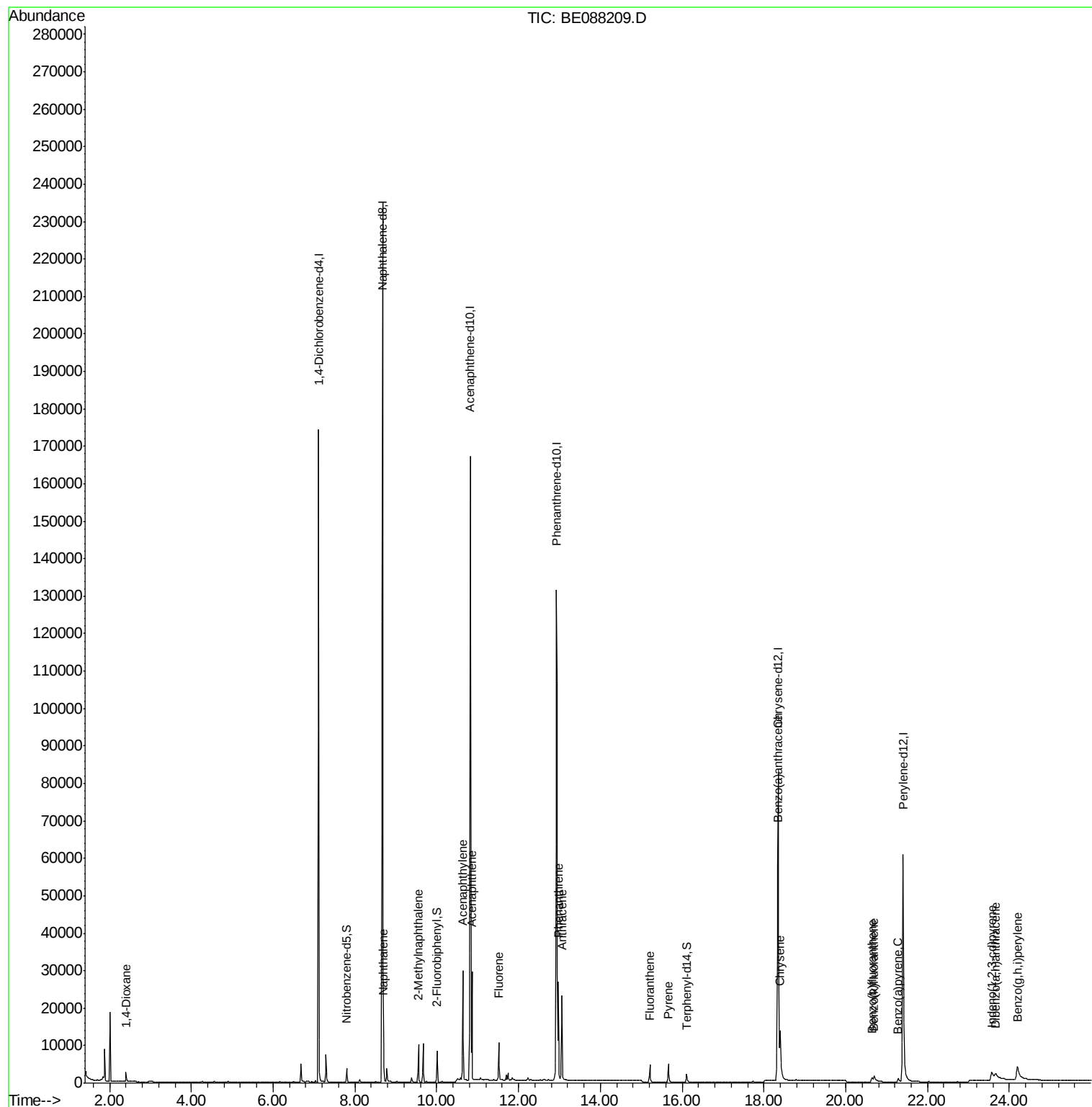
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.40	88	1641	0.20	ng	# 85
5) Naphthalene	8.70	128	9166	0.21	ng	99
6) 2-Methylnaphthalene	9.55	142	5292	0.20	ng	99
9) Acenaphthylene	10.64	152	29042	0.20	ng	98
10) Acenaphthene	10.86	154	4908	0.22	ng	94
11) Fluorene	11.52	166	4669	0.20	ng	100
13) Phenanthrene	12.97	178	36007	0.25	ng	# 88
14) Anthracene	13.06	178	23886	0.19	ng	97
15) Fluoranthene	15.21	202	4589	0.18	ng	99
17) Pyrene	15.67	202	5067	0.18	ng	100
19) Benzo(a)anthracene	18.33	228	14564	0.18	ng	97
20) Chrysene	18.40	228	17985	0.20	ng	96
21) Indeno(1,2,3-cd)pyrene	23.57	276	5870	0.07	ng	# 70
23) Benzo(b)fluoranthene	20.64	252	2022	0.14	ng	# 93
24) Benzo(k)fluoranthene	20.70	252	4441	0.19	ng	# 93
25) Benzo(a)pyrene	21.28	252	2071	0.14	ng	# 90
26) Dibenzo(a,h)anthracene	23.67	278	2095	0.15	ng	# 83
27) Benzo(g,h,i)perylene	24.20	276	12723	0.17	ng	# 91

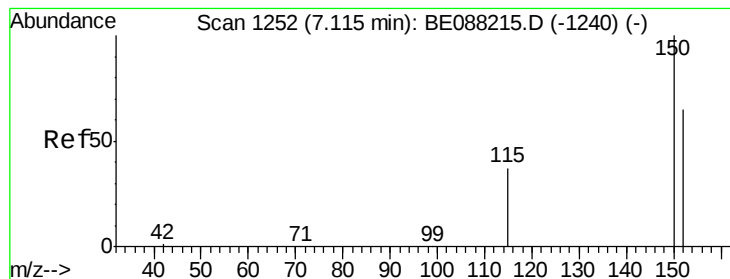
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

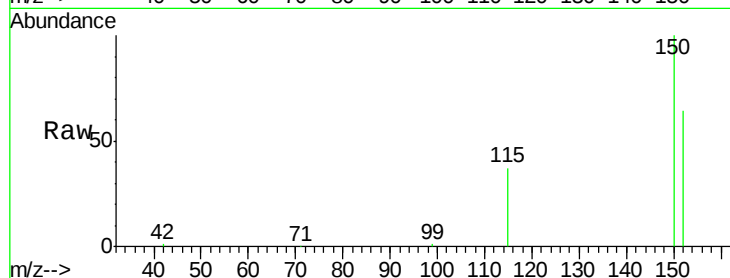
Tgt Ion:152 Resp: 57213

Ion Ratio Lower Upper

152 100

150 155.2 123.2 184.8

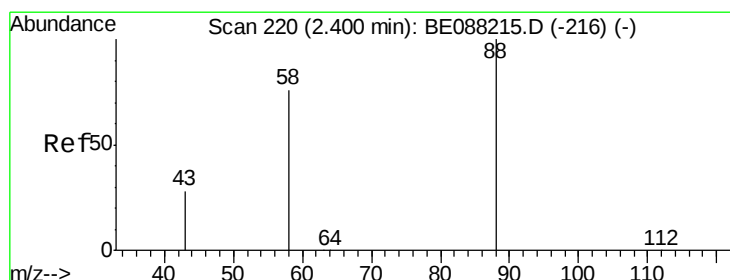
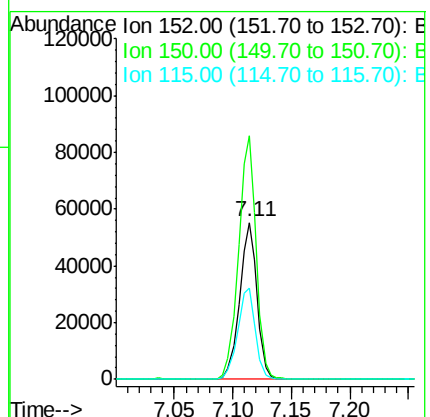
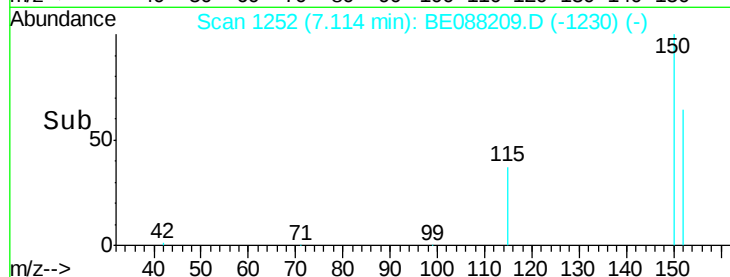
115 58.1 45.3 67.9



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: 0.20 ng

RT: 2.40 min Scan# 221

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

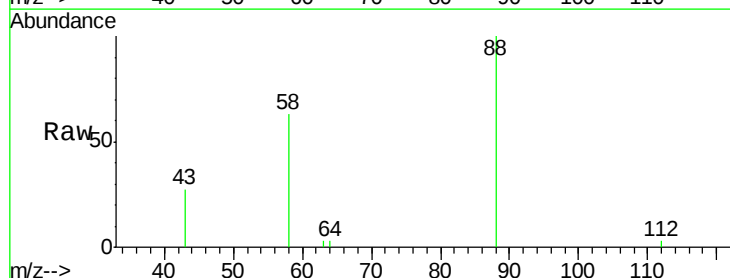
Tgt Ion: 88 Resp: 1641

Ion Ratio Lower Upper

88 100

58 73.1 59.0 88.4

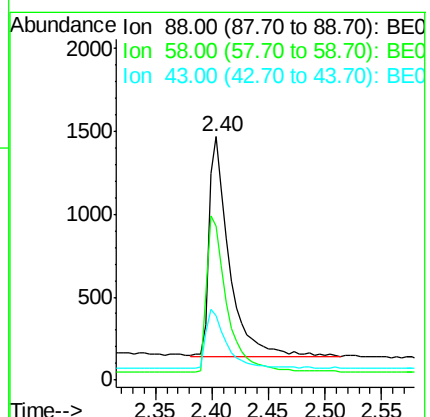
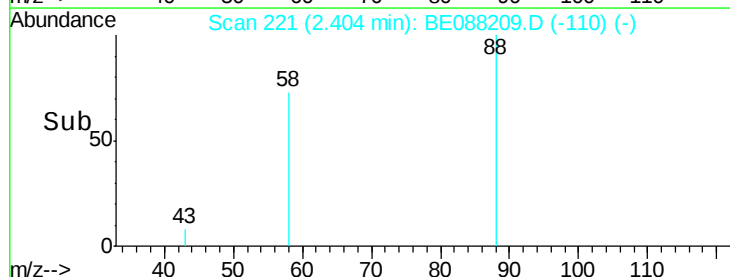
43 0.0 21.9 32.9#

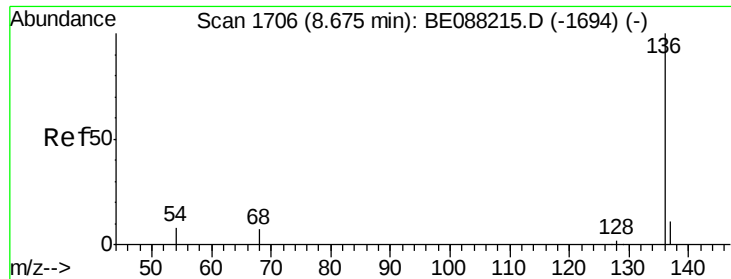


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

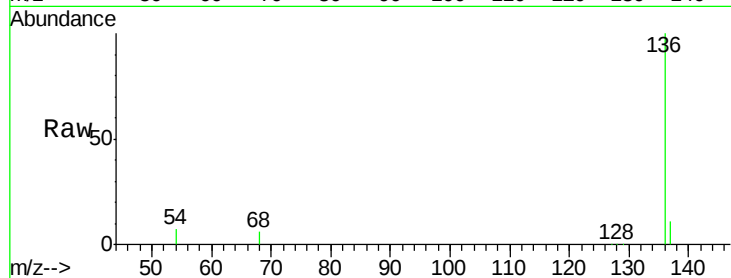
Tgt Ion:136 Resp: 216086

Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

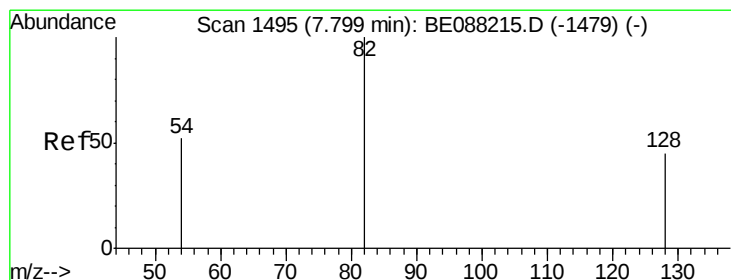
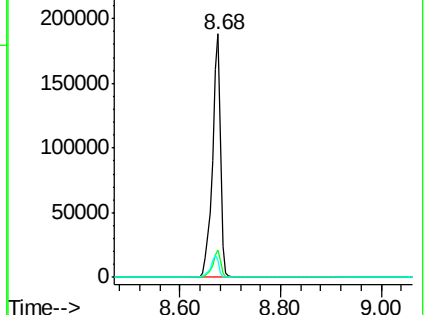
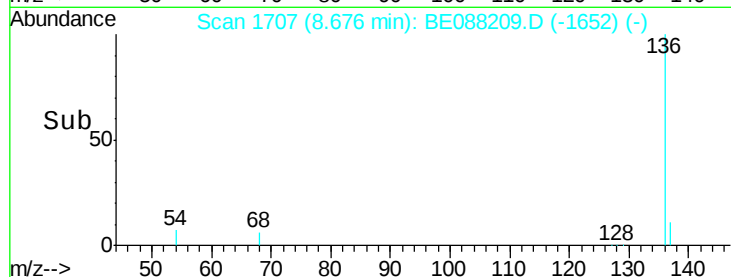
54 6.8 6.1 9.1



Abundance Ion 136.00 (135.70 to 136.70): BE088209.D (-1652) (-)

Ion 137.00 (136.70 to 137.70): BE088209.D (-1652) (-)

Ion 54.00 (53.70 to 54.70): BE088209.D (-1652) (-)



#4

Nitrobenzene-d5

Concen: 0.16 ng

RT: 7.80 min Scan# 1495

Delta R.T. -0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

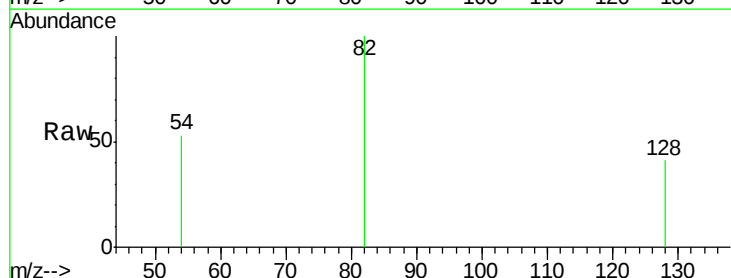
Tgt Ion: 82 Resp: 2168

Ion Ratio Lower Upper

82 100

128 41.4 36.2 54.2

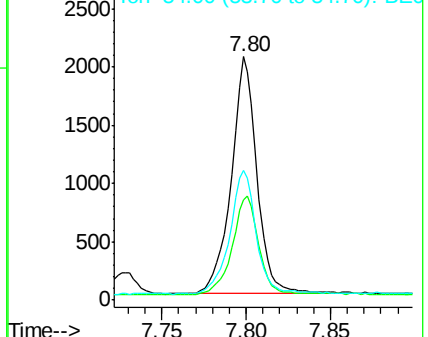
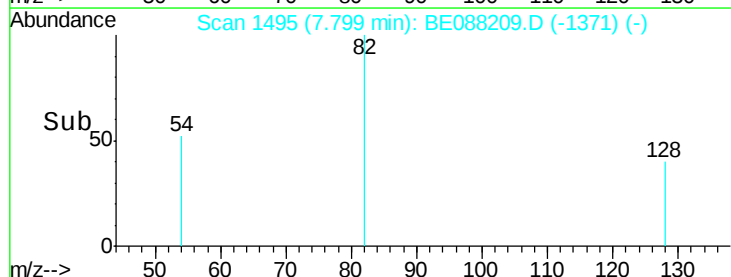
54 53.1 41.8 62.8

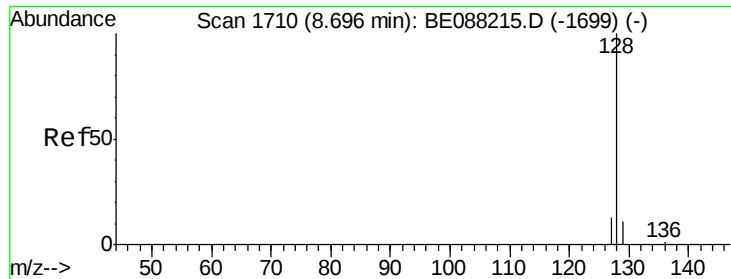


Abundance Ion 82.00 (81.70 to 82.70): BE088209.D (-1371) (-)

Ion 128.00 (127.70 to 128.70): BE088209.D (-1371) (-)

Ion 54.00 (53.70 to 54.70): BE088209.D (-1371) (-)





#5

Naphthalene

Concen: 0.21 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

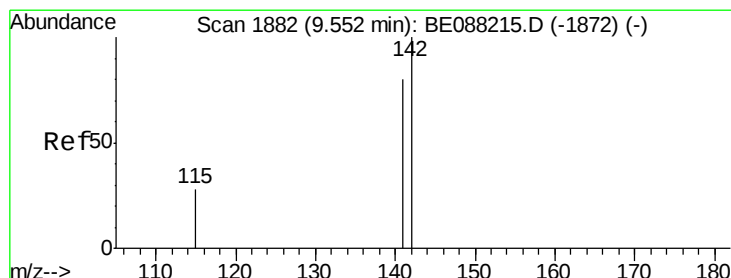
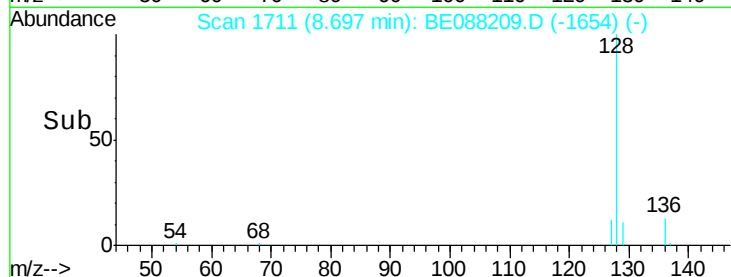
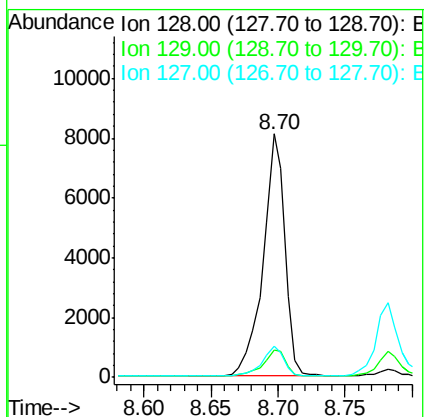
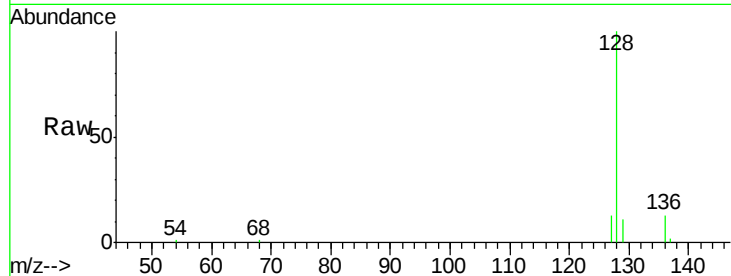
Tgt Ion:128 Resp: 9166

Ion Ratio Lower Upper

128 100

129 11.4 8.6 12.8

127 12.8 10.4 15.6



#6

2-Methylnaphthalene

Concen: 0.20 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

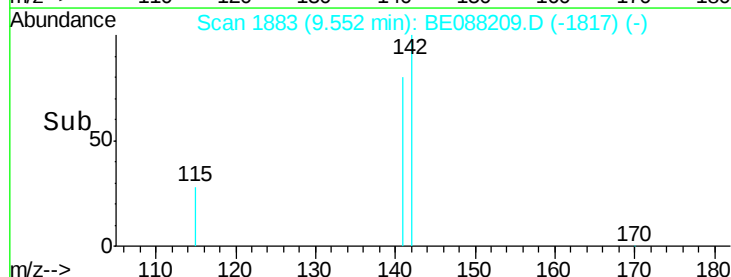
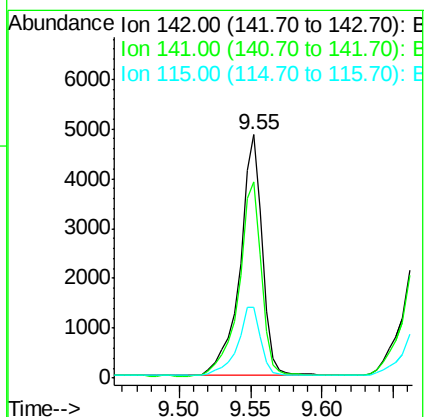
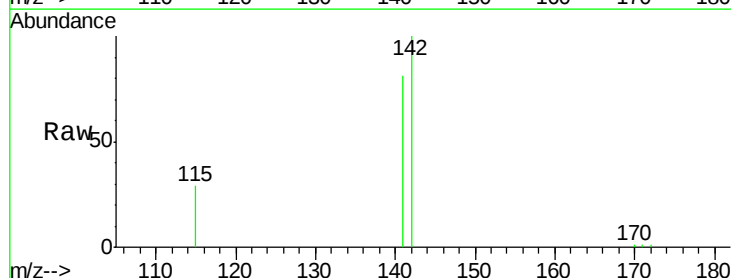
Tgt Ion:142 Resp: 5292

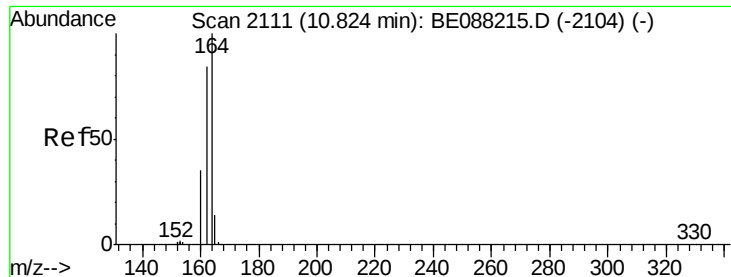
Ion Ratio Lower Upper

142 100

141 80.6 63.7 95.5

115 29.0 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.81 min Scan# 2111

Delta R.T. -0.01 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

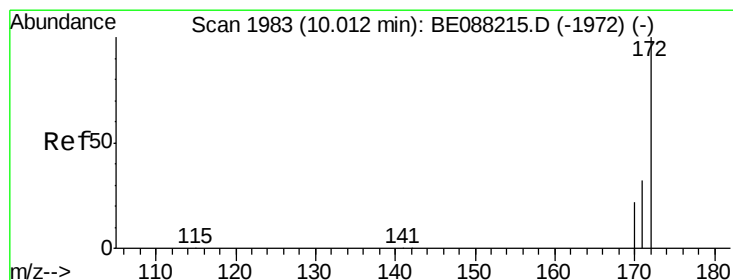
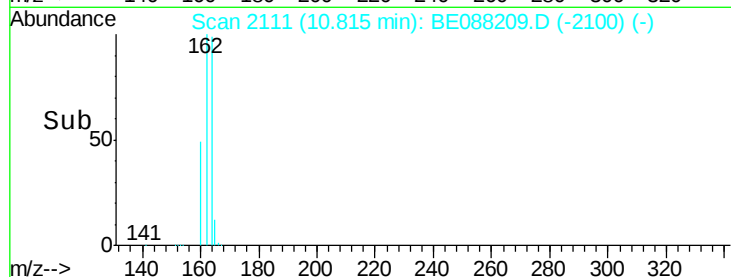
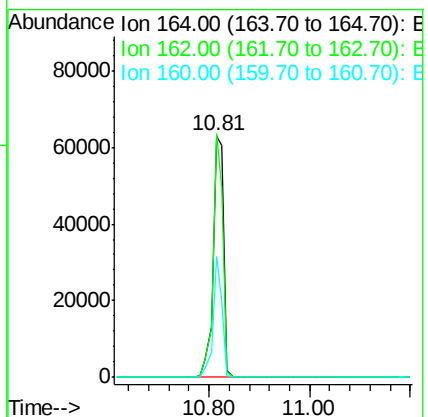
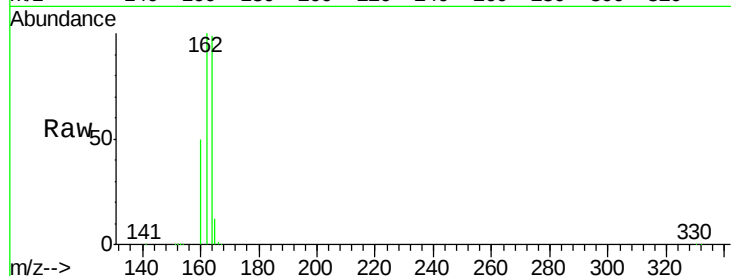
Tgt Ion:164 Resp: 95205

Ion Ratio Lower Upper

164 100

162 100.7 67.4 101.0

160 49.9 27.7 41.5#



#8

2-Fluorobiphenyl

Concen: 0.21 ng

RT: 10.01 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

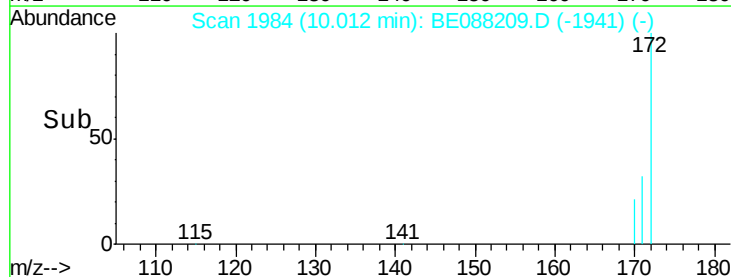
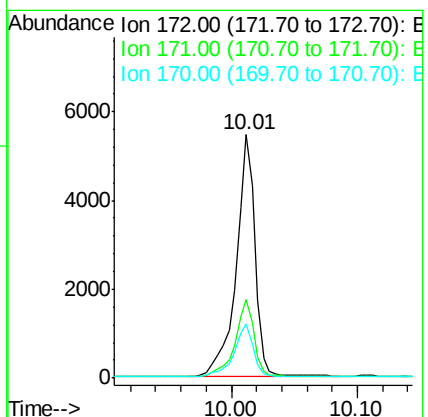
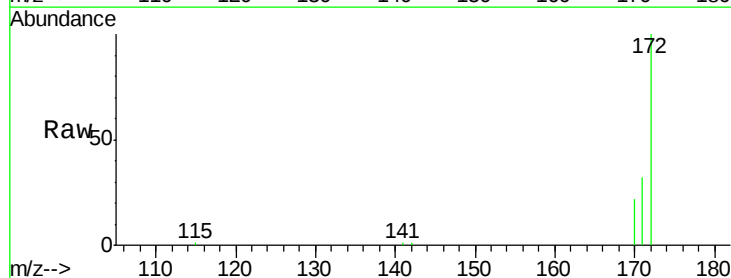
Tgt Ion:172 Resp: 5578

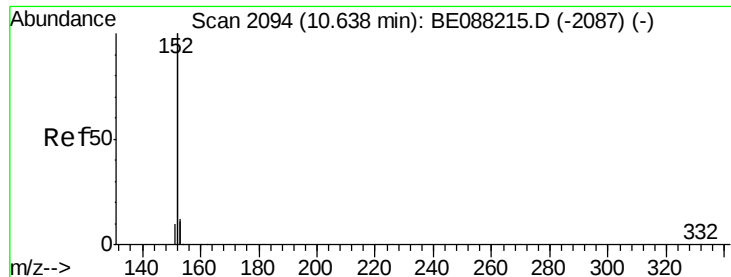
Ion Ratio Lower Upper

172 100

171 32.3 25.8 38.6

170 22.1 17.4 26.0





#9

Acenaphthylene

Concen: 0.20 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.2

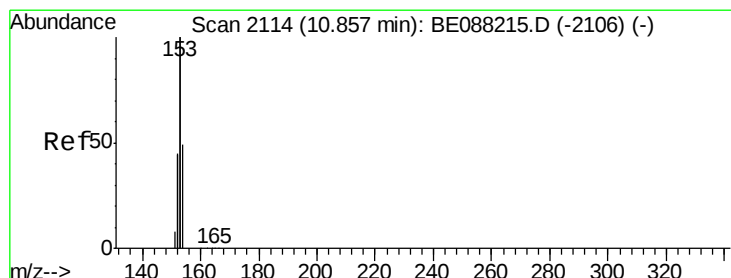
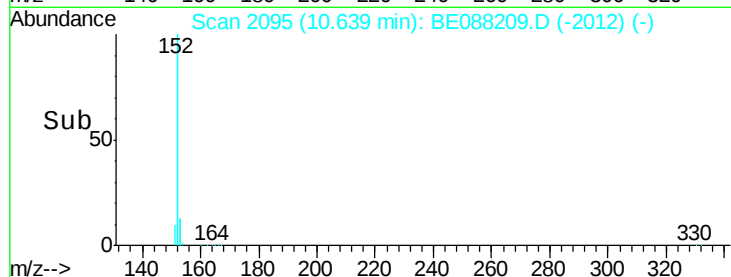
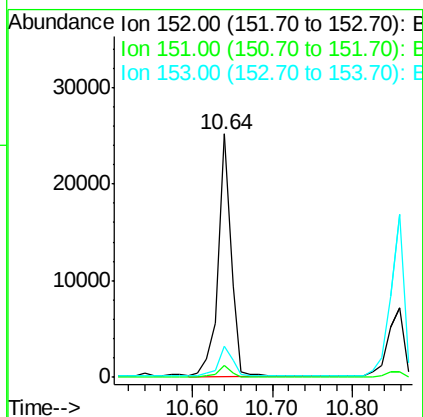
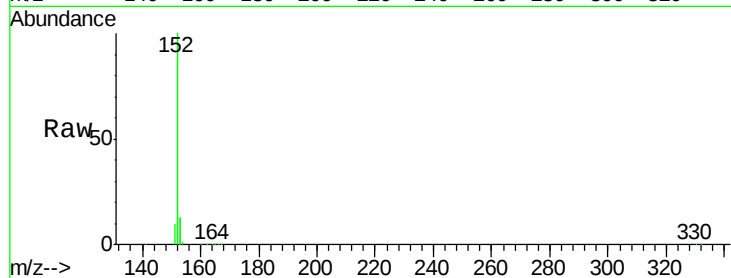
Tgt Ion:152 Resp: 29042

Ion Ratio Lower Upper

152 100

151 4.5 3.7 5.5

153 13.7 10.3 15.5



#10

Acenaphthene

Concen: 0.22 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

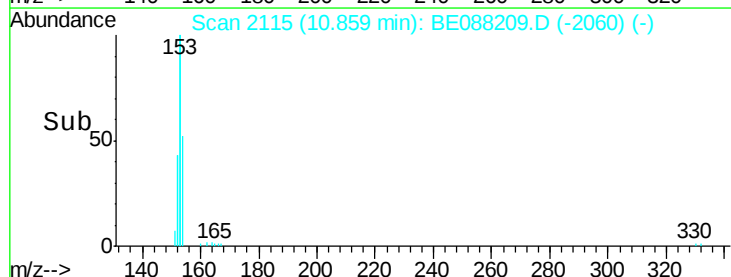
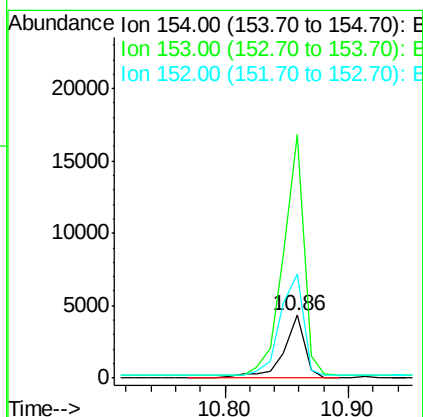
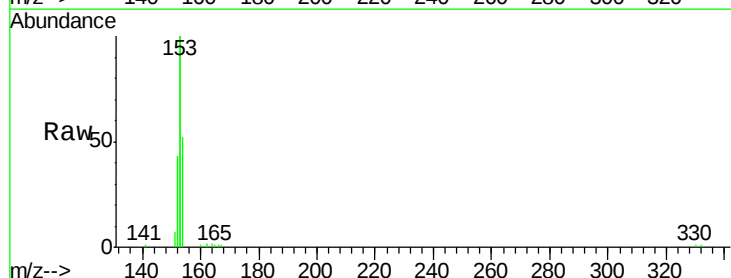
Tgt Ion:154 Resp: 4908

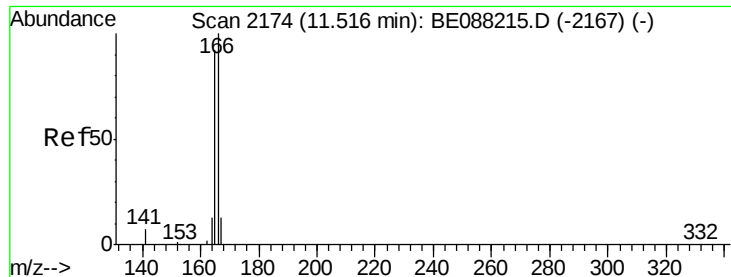
Ion Ratio Lower Upper

154 100

153 387.4 326.0 489.0

152 193.3 155.6 233.4





#11

Fluorene

Concen: 0.20 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

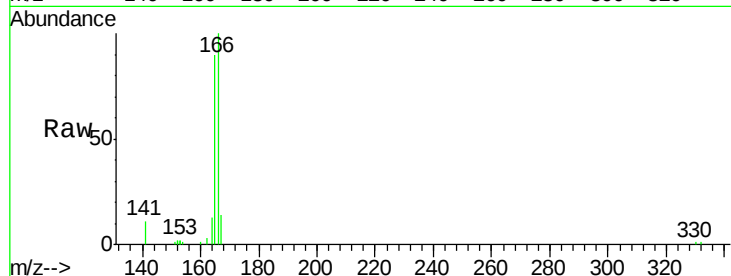
Tgt Ion:166 Resp: 4669

Ion Ratio Lower Upper

166 100

165 89.6 71.8 107.6

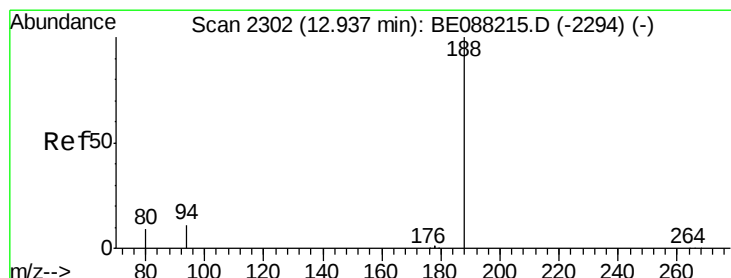
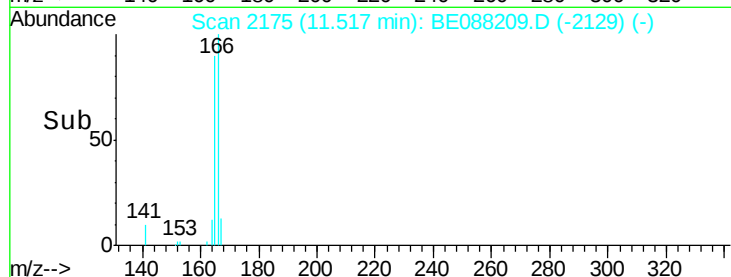
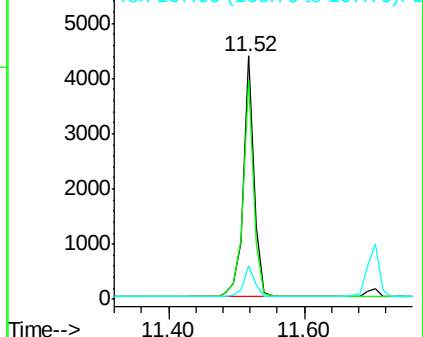
167 13.6 10.7 16.1



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# 2302

Delta R.T. -0.01 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

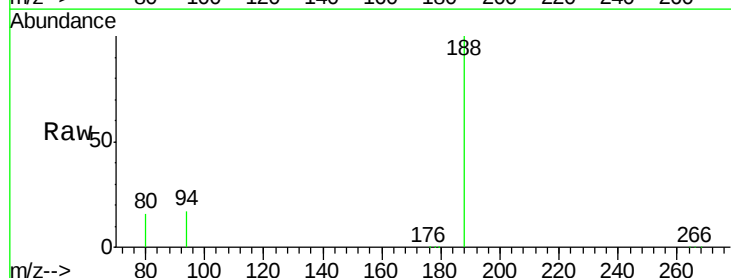
Tgt Ion:188 Resp: 174050

Ion Ratio Lower Upper

188 100

94 17.2 8.5 12.7#

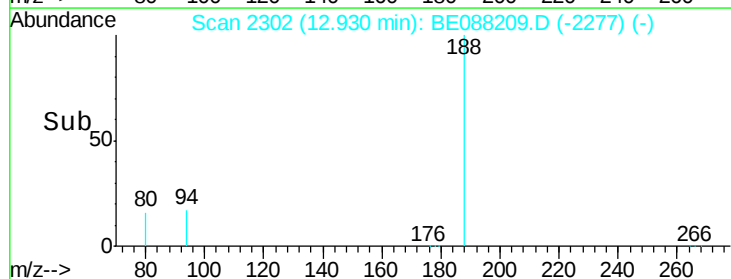
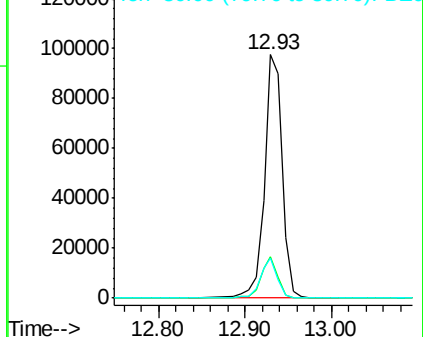
80 16.3 7.4 11.0#

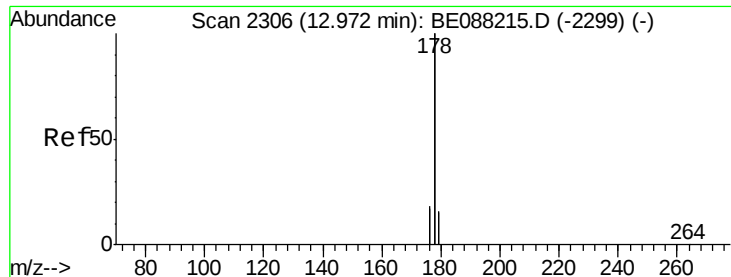


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.25 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.2

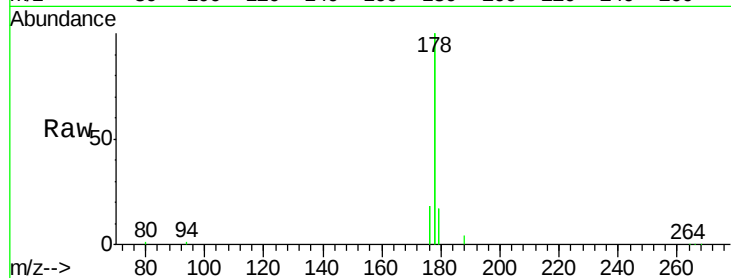
Tgt Ion:178 Resp: 36007

Ion Ratio Lower Upper

178 100

176 22.3 14.0 21.0#

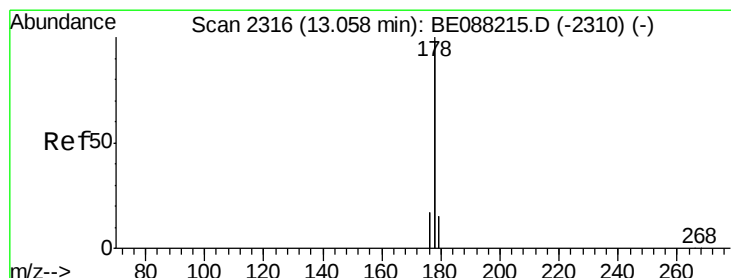
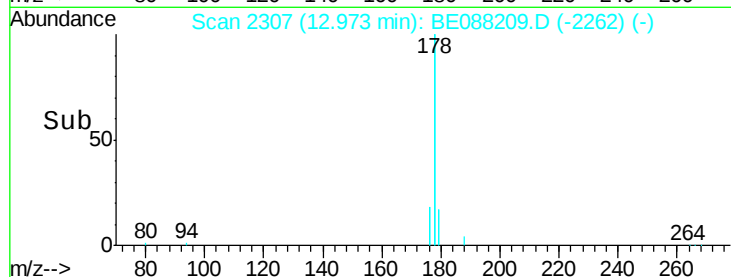
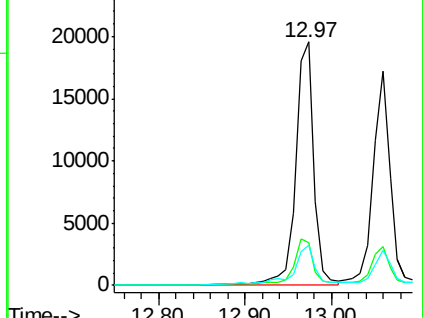
179 20.5 11.8 17.6#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 0.19 ng

RT: 13.06 min Scan# 2317

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

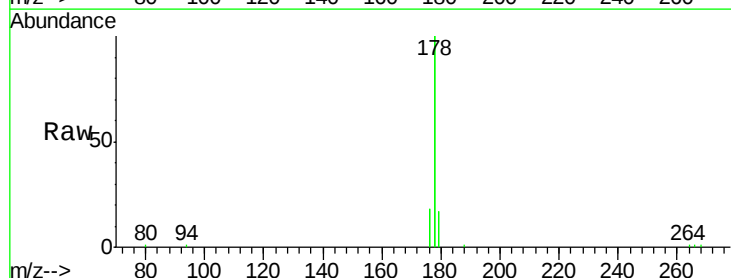
Tgt Ion:178 Resp: 23886

Ion Ratio Lower Upper

178 100

176 18.8 14.7 22.1

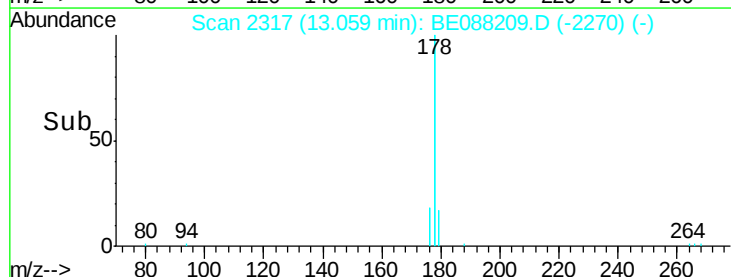
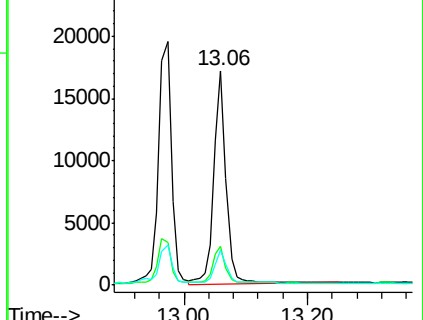
179 18.1 12.3 18.5

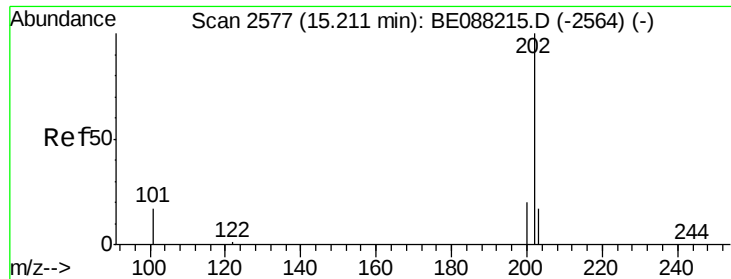


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.18 ng

RT: 15.21 min Scan# 2578

Delta R.T. -0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

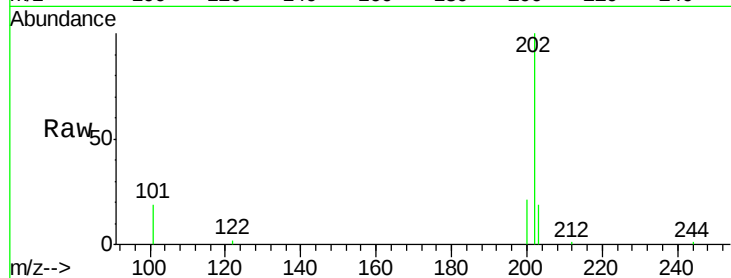
Tgt Ion:202 Resp: 4589

Ion Ratio Lower Upper

202 100

101 17.7 14.4 21.6

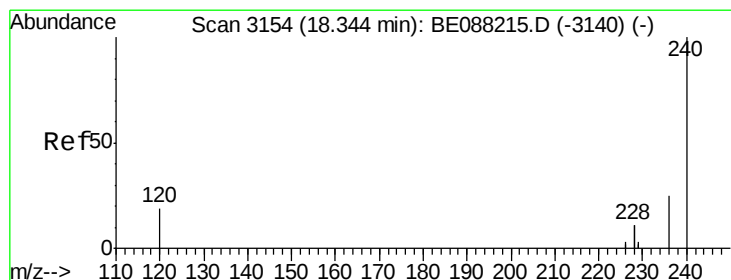
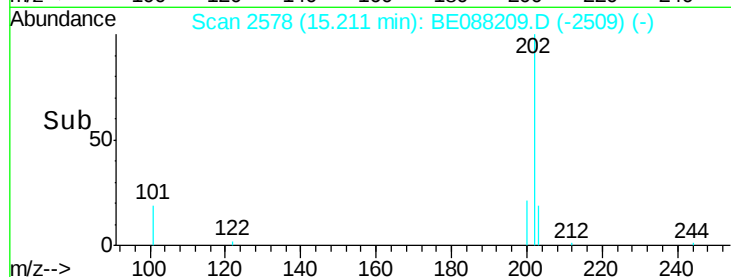
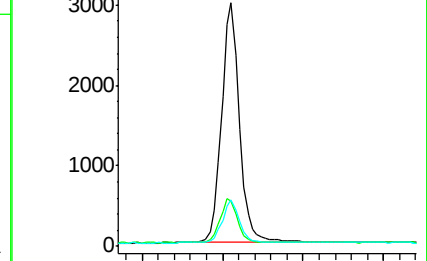
203 17.1 13.4 20.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.35 min Scan# 3155

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

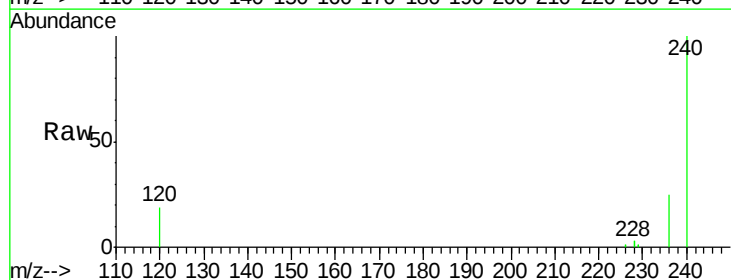
Tgt Ion:240 Resp: 101436

Ion Ratio Lower Upper

240 100

120 18.7 15.1 22.7

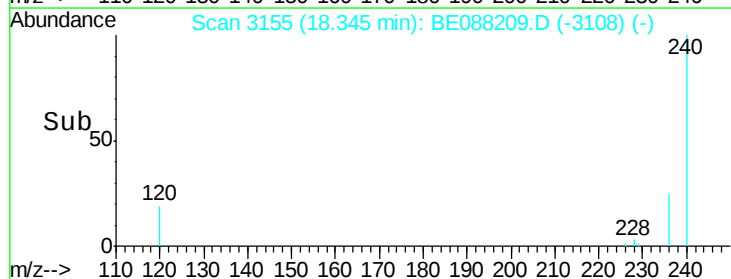
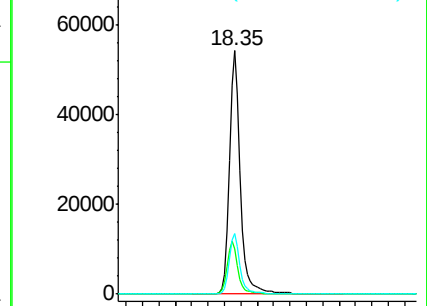
236 25.0 20.1 30.1

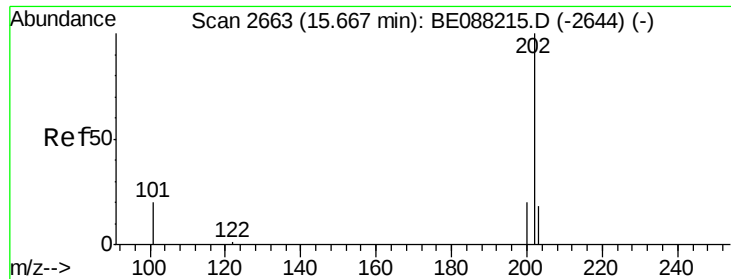


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

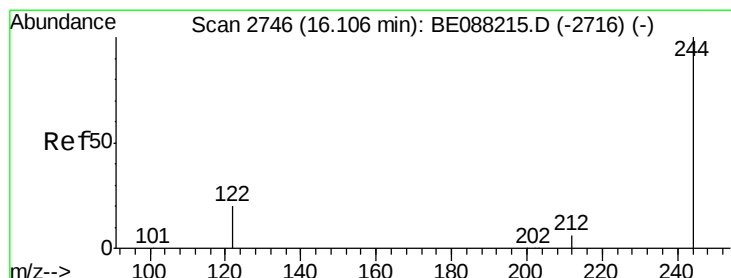
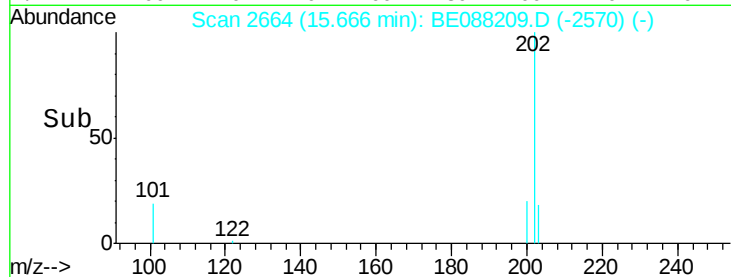
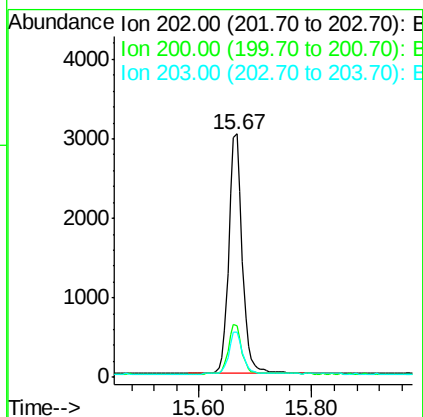
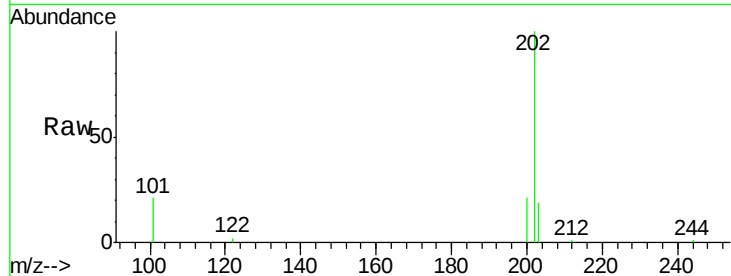




#17
 Pyrene
 Concen: 0.18 ng
 RT: 15.67 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: BE088209.D
 Acq: 24 Oct 2014 13:13

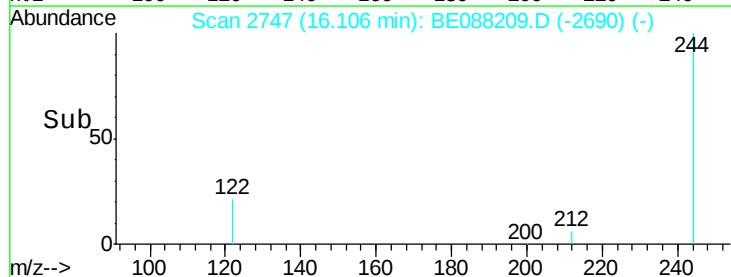
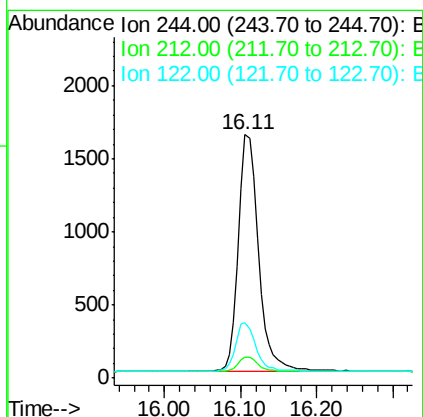
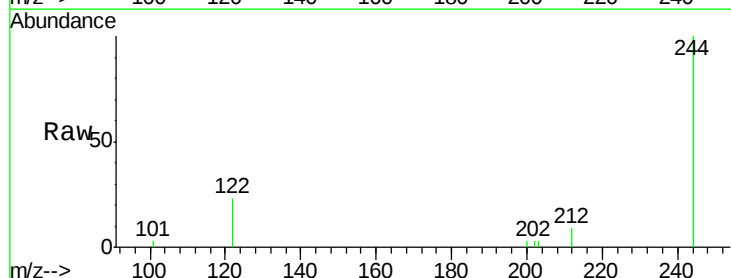
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

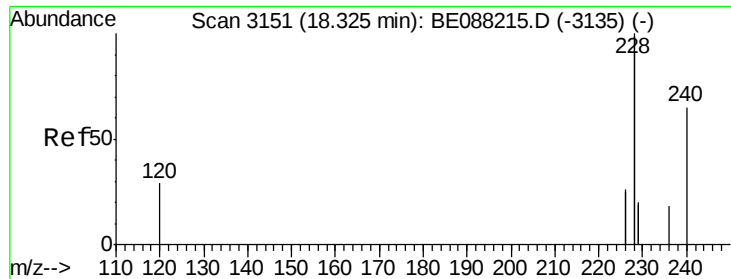
Tgt Ion: 202 Resp: 5067
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.2 24.2
 203 17.3 13.8 20.8



#18
 Terphenyl-d14
 Concen: 0.18 ng
 RT: 16.11 min Scan# 2747
 Delta R.T. -0.00 min
 Lab File: BE088209.D
 Acq: 24 Oct 2014 13:13

Tgt Ion: 244 Resp: 3022
 Ion Ratio Lower Upper
 244 100
 212 8.6 5.4 8.2#
 122 22.9 16.7 25.1





#19

Benzo(a)anthracene

Concen: 0.18 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

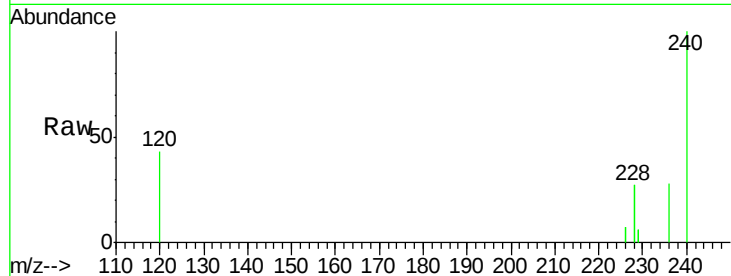
Tgt Ion:228 Resp: 14564

Ion Ratio Lower Upper

228 100

226 27.3 20.5 30.7

229 20.9 16.1 24.1

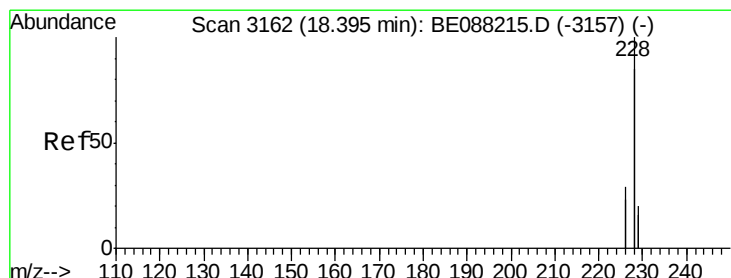
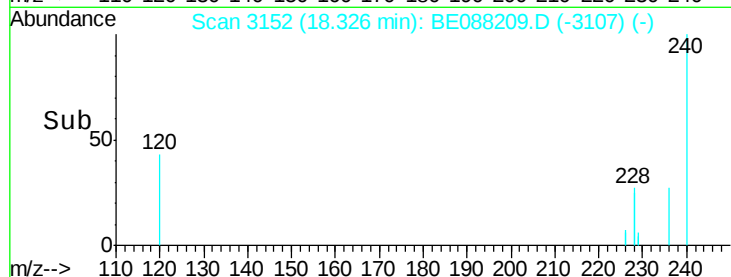
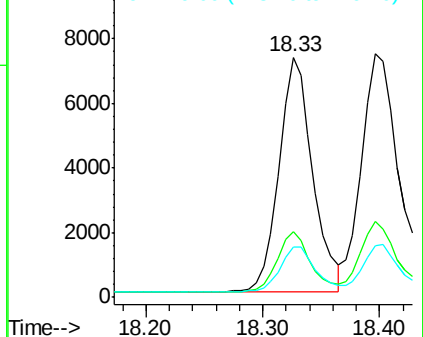


Abundance

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: 0.20 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

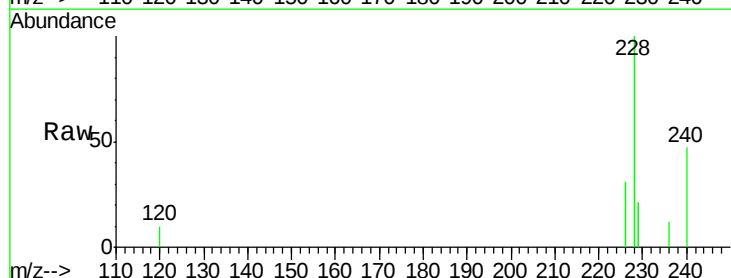
Tgt Ion:228 Resp: 17985

Ion Ratio Lower Upper

228 100

226 31.0 23.3 34.9

229 21.1 15.6 23.4

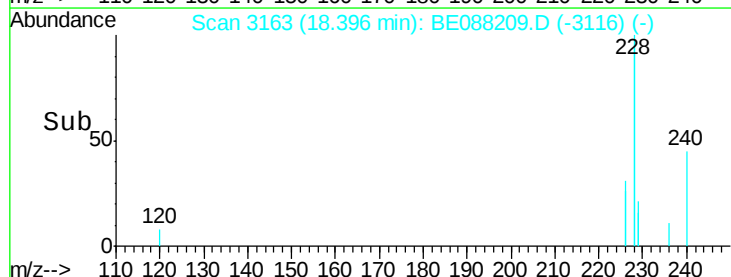
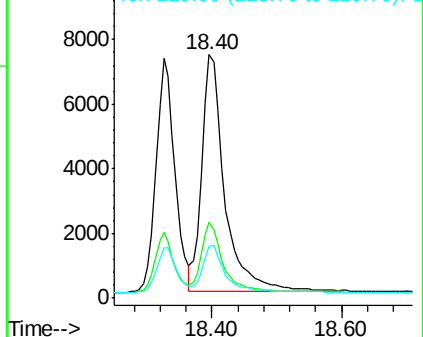


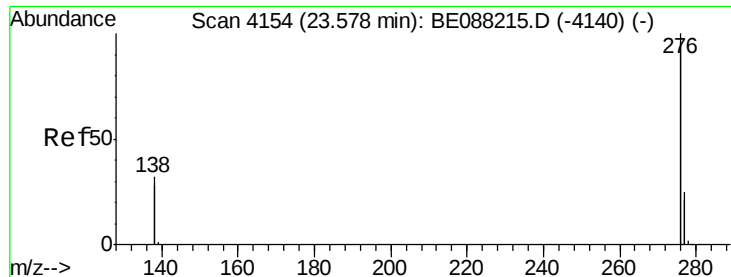
Abundance

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: 0.07 ng

RT: 23.57 min Scan# 4154

Delta R.T. -0.01 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

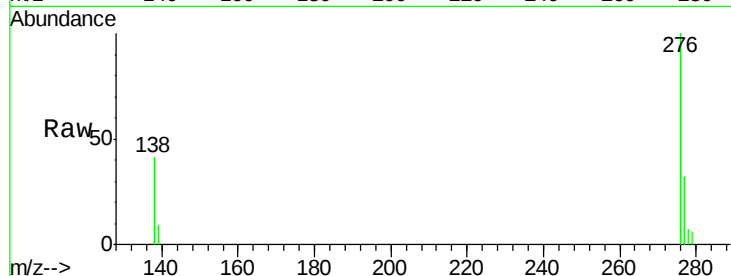
Tgt Ion:276 Resp: 5870

Ion Ratio Lower Upper

276 100

138 31.2 13.9 20.9#

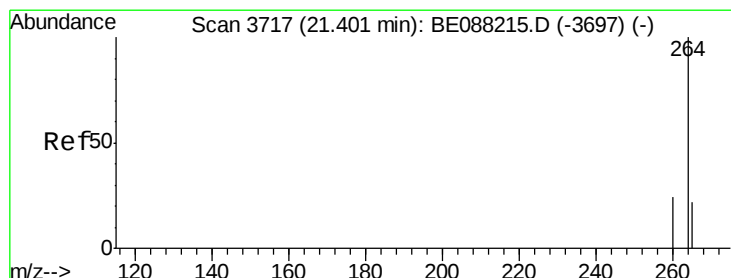
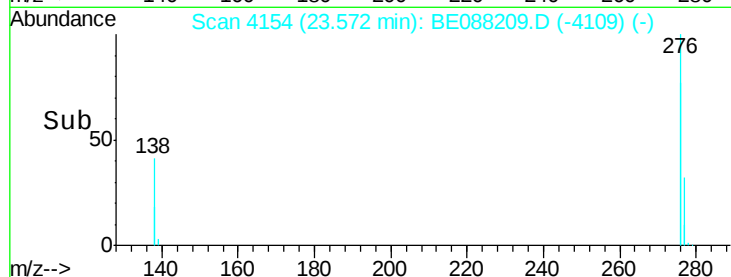
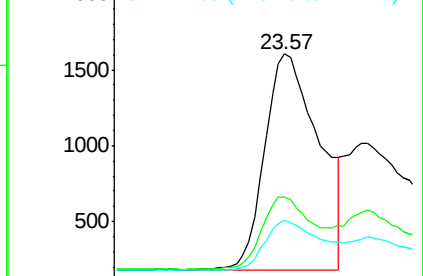
277 24.8 10.7 16.1#



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# 3718

Delta R.T. -0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

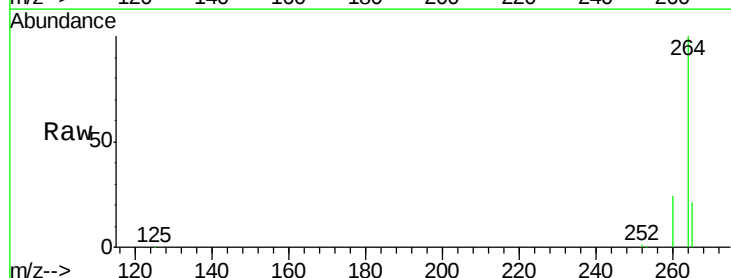
Tgt Ion:264 Resp: 90834

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

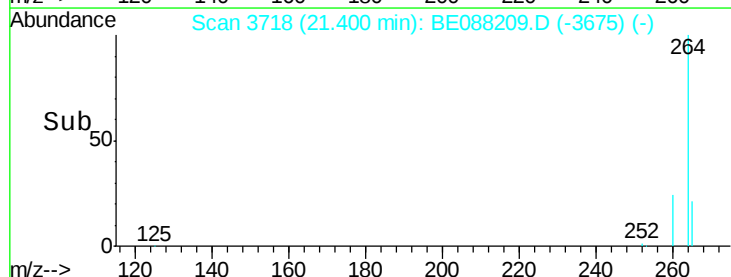
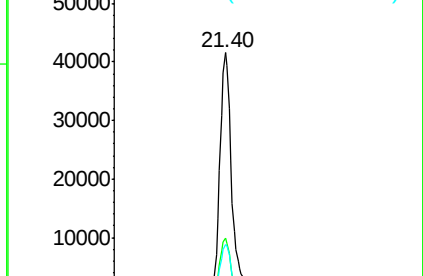
265 21.4 17.4 26.2

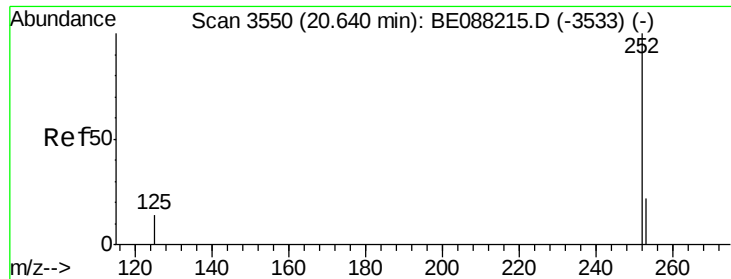


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.14 ng

RT: 20.64 min Scan# 3552

Delta R.T. 0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

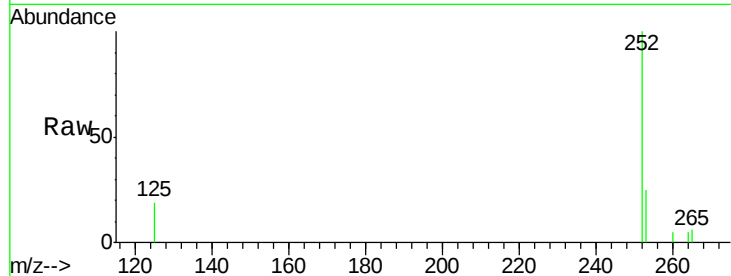
Tgt Ion:252 Resp: 2022

Ion Ratio Lower Upper

252 100

253 25.1 17.9 26.9

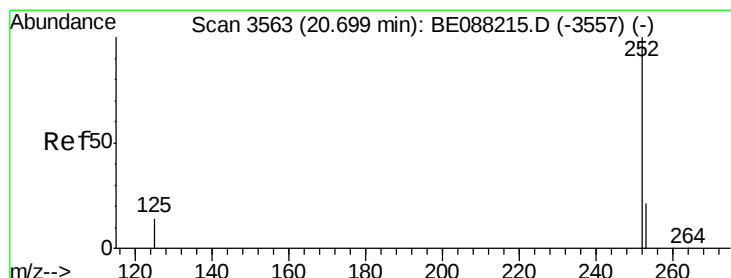
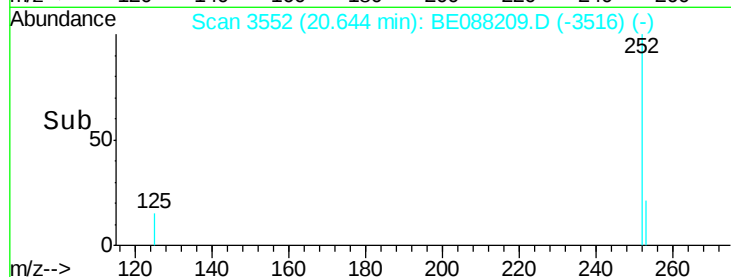
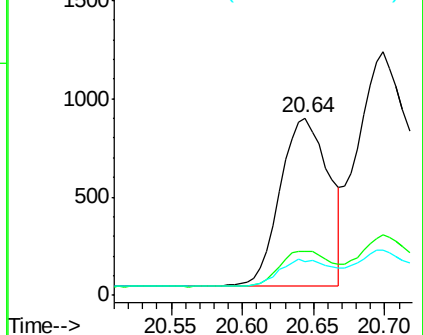
125 19.1 12.2 18.2#



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: 0.19 ng

RT: 20.70 min Scan# 3564

Delta R.T. -0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

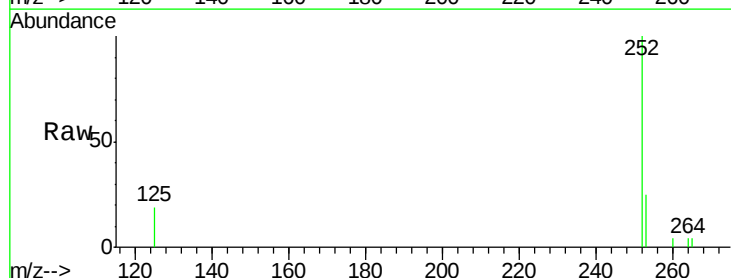
Tgt Ion:252 Resp: 4441

Ion Ratio Lower Upper

252 100

253 24.6 17.6 26.4

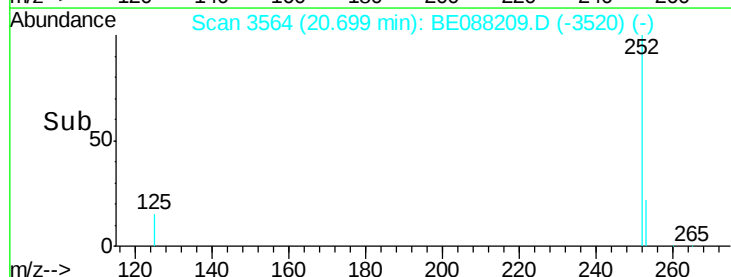
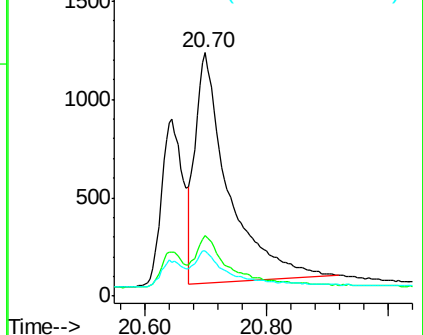
125 18.6 12.1 18.1#

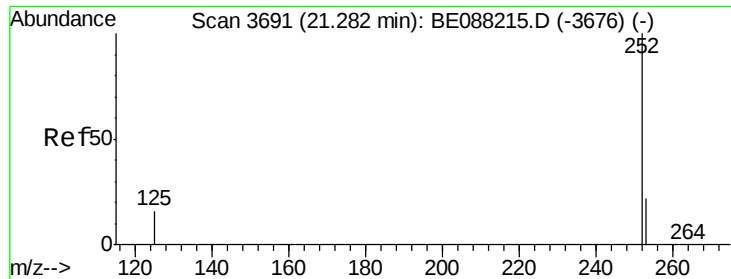


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.14 ng

RT: 21.28 min Scan# 3691

Delta R.T. -0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

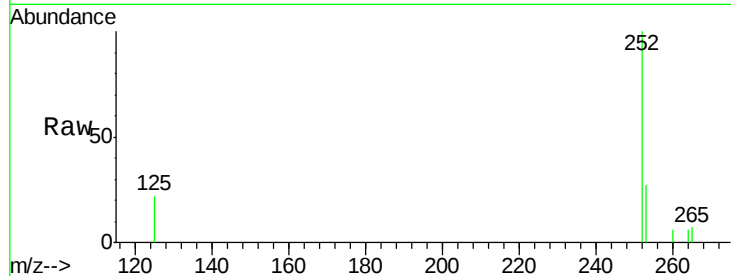
Tgt Ion: 252 Resp: 2071

Ion Ratio Lower Upper

252 100

253 26.7 17.8 26.8

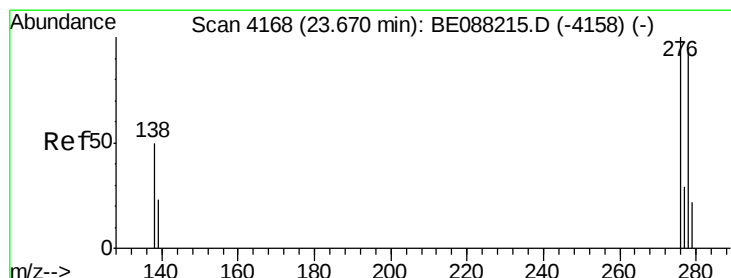
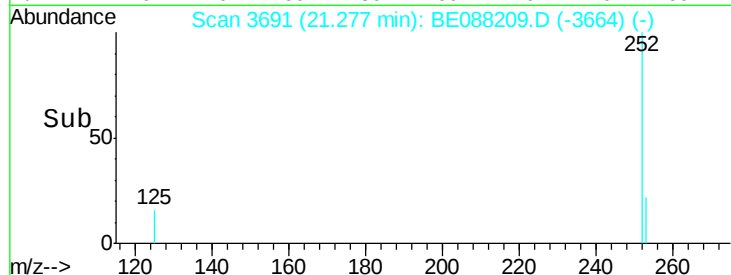
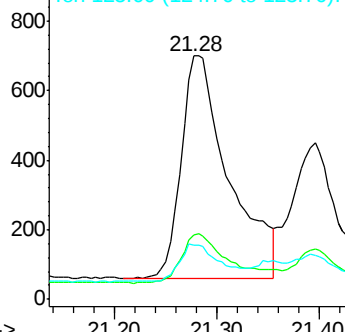
125 22.0 13.5 20.3#



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: 0.15 ng

RT: 23.67 min Scan# 4169

Delta R.T. -0.00 min

Lab File: BE088209.D

Acq: 24 Oct 2014 13:13

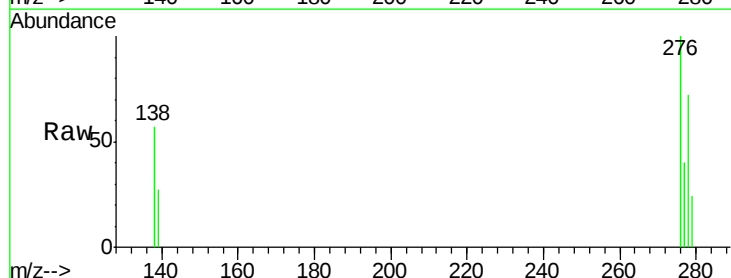
Tgt Ion: 278 Resp: 2095

Ion Ratio Lower Upper

278 100

139 37.6 22.1 33.1#

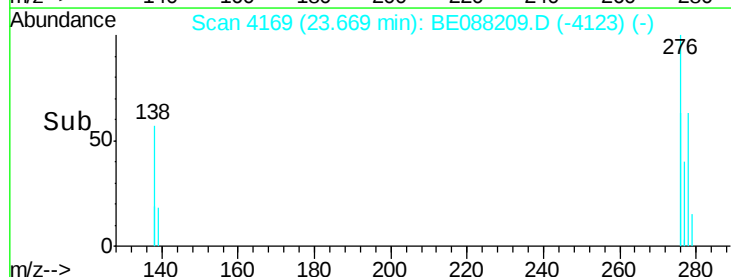
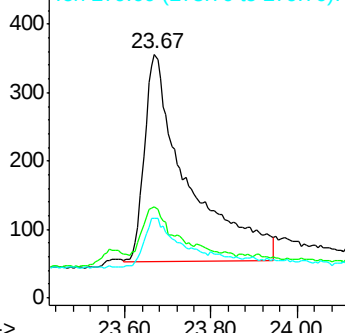
279 32.9 20.2 30.2#

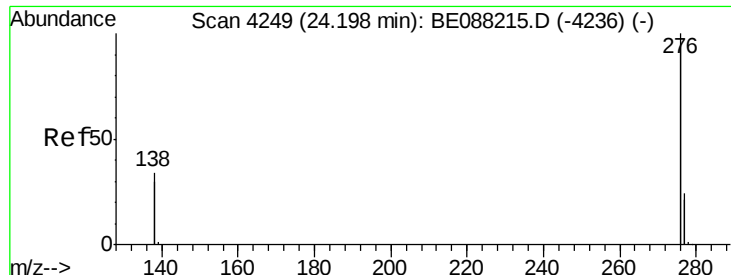


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.17 ng

RT: 24.20 min Scan# 4250

Delta R.T. -0.00 min

Lab File: BE088209.D

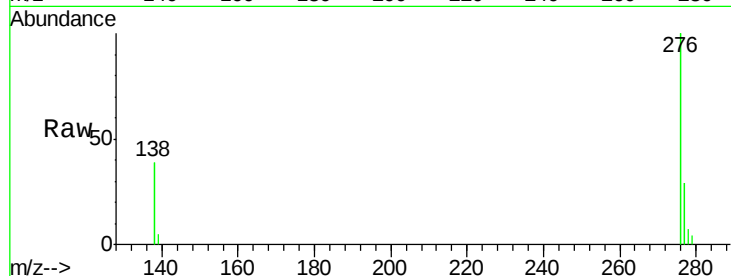
Acq: 24 Oct 2014 13:13

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2



Tgt Ion: 276 Resp: 12723

Ion Ratio Lower Upper

276 100

277 29.3 19.4 29.2#

138 38.6 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

