

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088178.D
 Acq On : 22 Oct 2014 12:29
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Oct 22 13:02:25 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	28861	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	115111	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	58208	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	103037	5.00	ng	0.00
16) Chrysene-d12	18.39	240	56694	5.00	ng	0.00
22) Perylene-d12	21.44	264	52921	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	11246	1.36	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	32535	2.02	ng	0.00
18) Terphenyl-d14	16.15	244	23018	2.52	ng	0.00

Target Compounds					Qvalue	
2) 1,4-Dioxane	2.32	88	4106	0.99	ng	98
5) Naphthalene	8.72	128	23549	0.99	ng	99
6) 2-Methylnaphthalene	9.58	142	14306	1.01	ng	97
9) Acenaphthylene	10.67	152	80327	0.91	ng	100
10) Acenaphthene	10.88	154	12701	0.93	ng	99
11) Fluorene	11.55	166	13946	0.96	ng	100
13) Phenanthrene	13.01	178	121685	1.44	ng	95
14) Anthracene	13.09	178	79701	0.99	ng	99
15) Fluoranthene	15.25	202	30083	1.53	ng	100
17) Pyrene	15.70	202	27690	1.80	ng	98
19) Benzo(a)anthracene	18.36	228	63171	1.25	ng	99
20) Chrysene	18.44	228	64292	1.30	ng	99
21) Indeno(1,2,3-cd)pyrene	23.64	276	49842	0.91	ng	# 87
23) Benzo(b)fluoranthene	20.69	252	16412	1.30	ng	99
24) Benzo(k)fluoranthene	20.74	252	13966	1.04	ng	99
25) Benzo(a)pyrene	21.32	252	14245	1.23	ng	99
26) Dibenzo(a,h)anthracene	23.73	278	10177	0.89	ng	100
27) Benzo(g,h,i)perylene	24.27	276	58128	1.16	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088178.D

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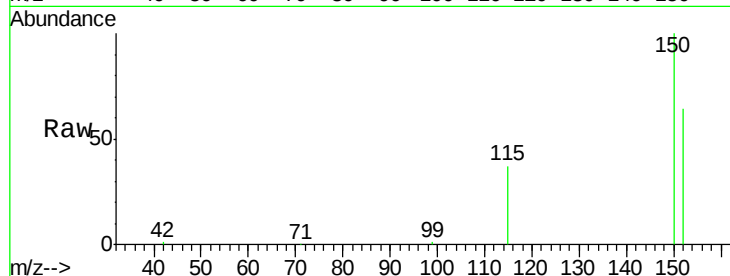
Tgt Ion:152 Resp: 28861

Ion Ratio Lower Upper

152 100

150 157.2 129.2 193.8

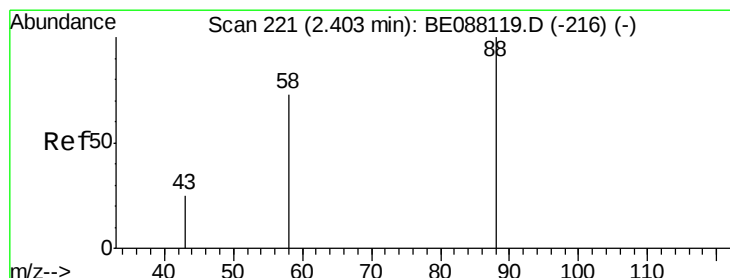
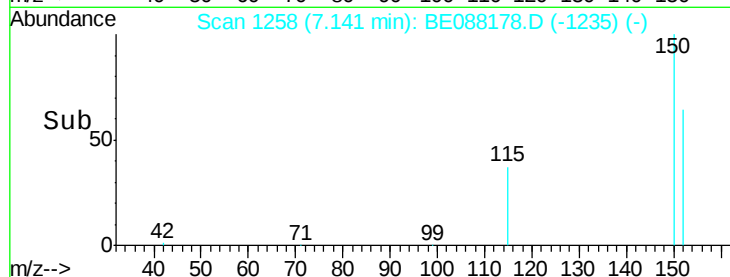
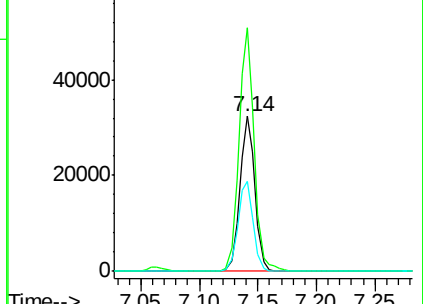
115 58.3 49.3 73.9



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: 0.99 ng

RT: 2.32 min Scan# 204

Delta R.T. -0.08 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

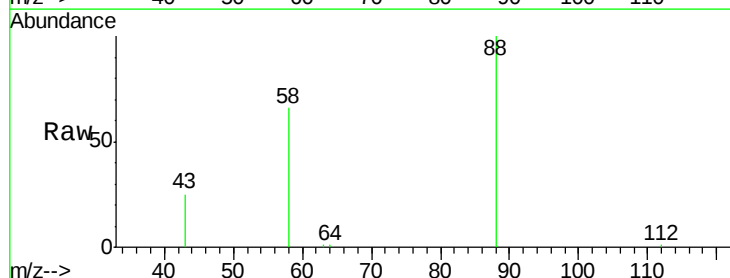
Tgt Ion: 88 Resp: 4106

Ion Ratio Lower Upper

88 100

58 75.9 59.5 89.3

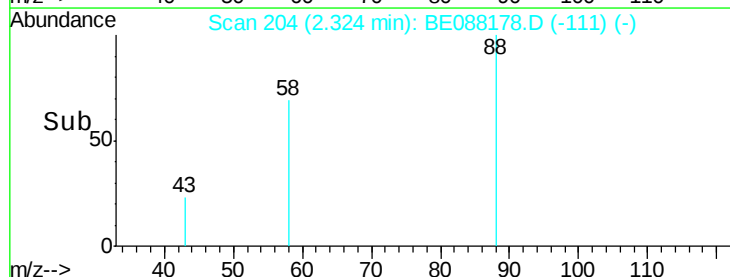
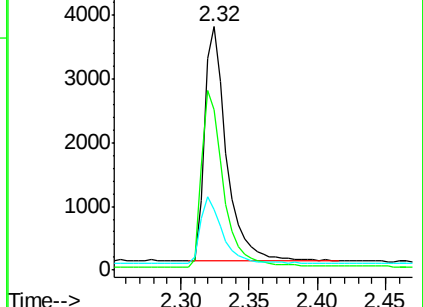
43 28.2 21.2 31.8

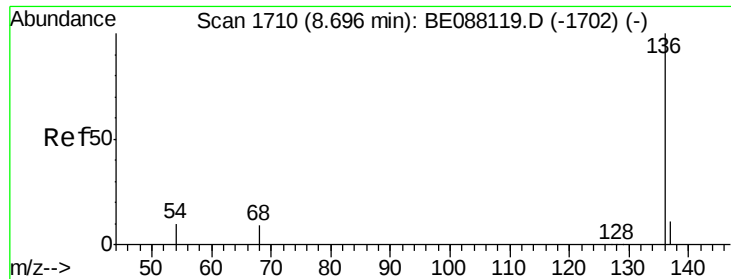


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

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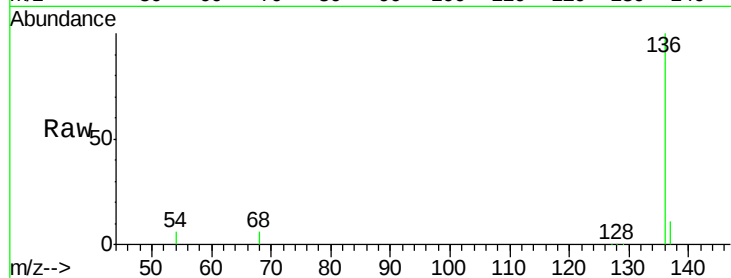
Tgt Ion: 136 Resp: 115111

Ion Ratio Lower Upper

136 100

137 11.2 8.6 12.8

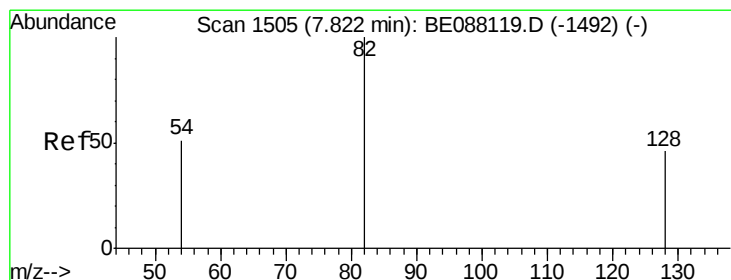
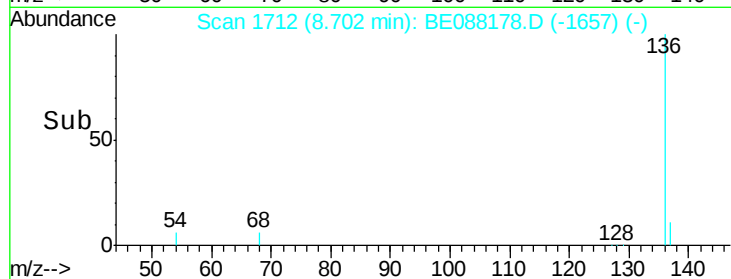
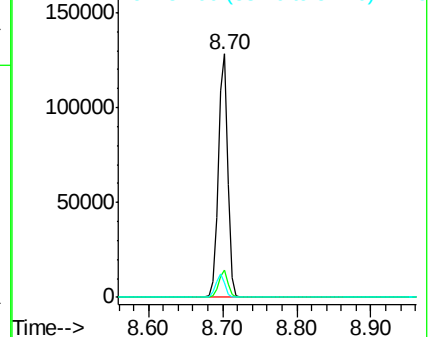
54 6.1 7.7 11.5#



Abundance Ion 136.00 (135.70 to 136.70): B

Ion 137.00 (136.70 to 137.70): B

Ion 54.00 (53.70 to 54.70): B



#4

Nitrobenzene-d5

Concen: 1.36 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

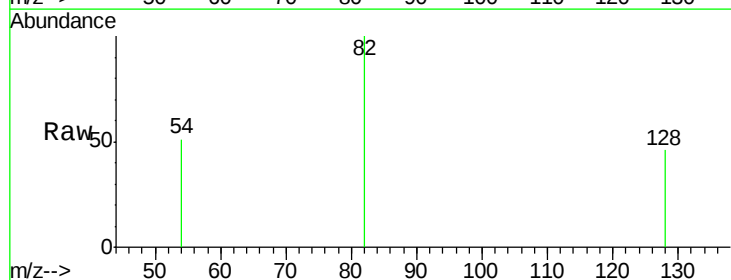
Tgt Ion: 82 Resp: 11246

Ion Ratio Lower Upper

82 100

128 46.1 37.1 55.7

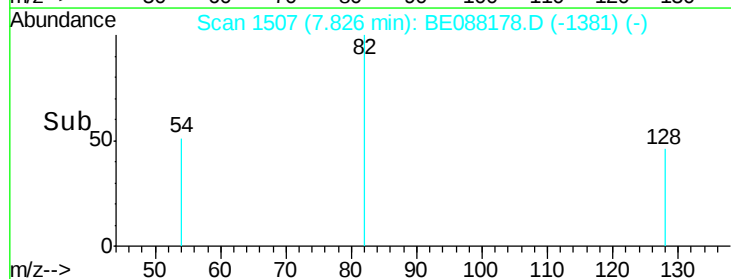
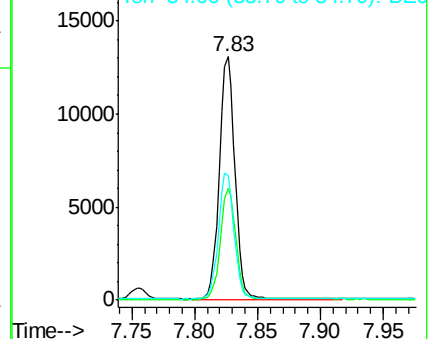
54 51.2 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): B

Ion 128.00 (127.70 to 128.70): B

Ion 54.00 (53.70 to 54.70): B





#5

Naphthalene

Concen: 0.99 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

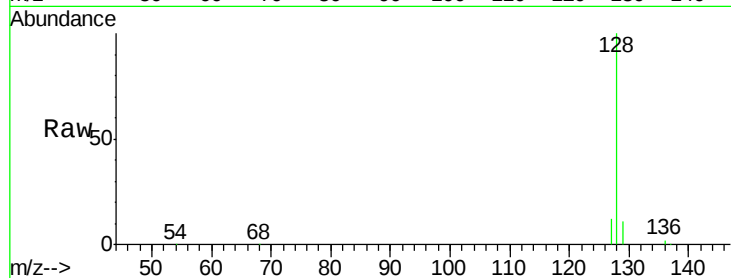
Tgt Ion:128 Resp: 23549

Ion Ratio Lower Upper

128 100

129 10.8 8.9 13.3

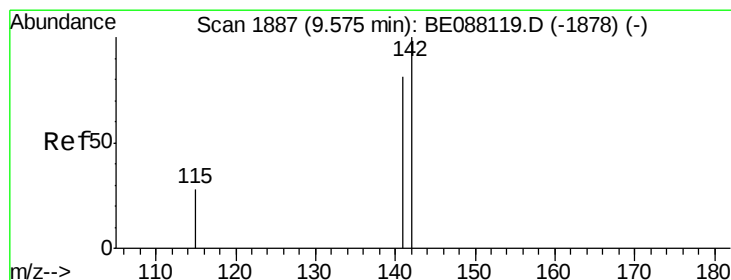
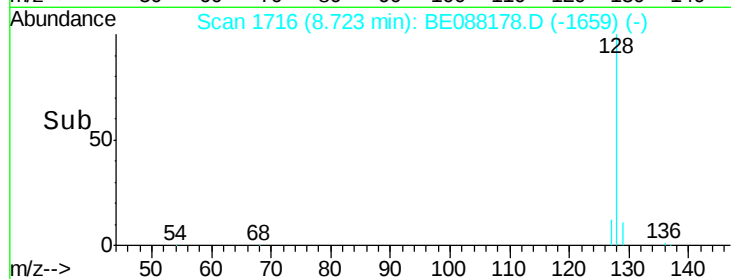
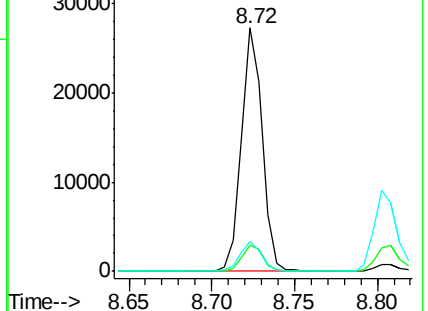
127 12.4 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#6

2-Methylnaphthalene

Concen: 1.01 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

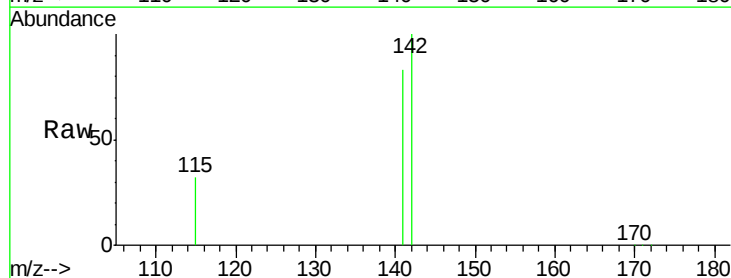
Tgt Ion:142 Resp: 14306

Ion Ratio Lower Upper

142 100

141 83.1 64.6 97.0

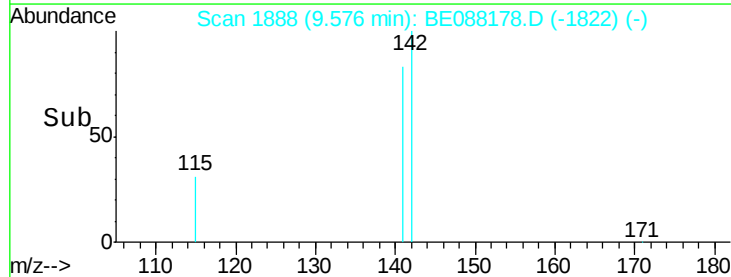
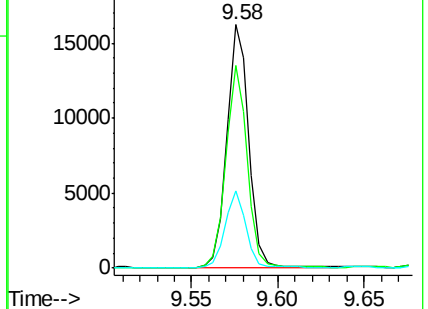
115 31.5 22.6 34.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

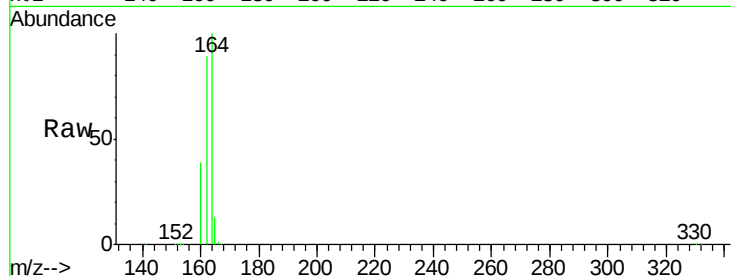
Tgt Ion:164 Resp: 58208

Ion Ratio Lower Upper

164 100

162 89.2 68.3 102.5

160 38.9 28.7 43.1

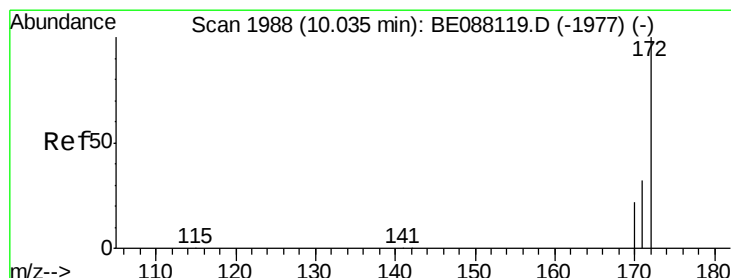
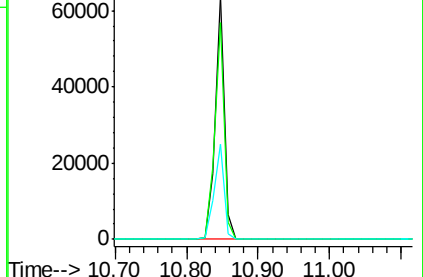
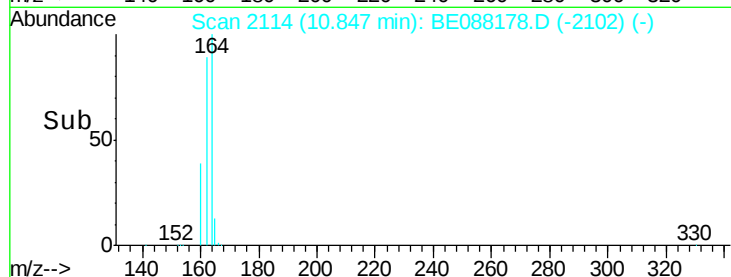


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

10.85



#8

2-Fluorobiphenyl

Concen: 2.02 ng

RT: 10.04 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

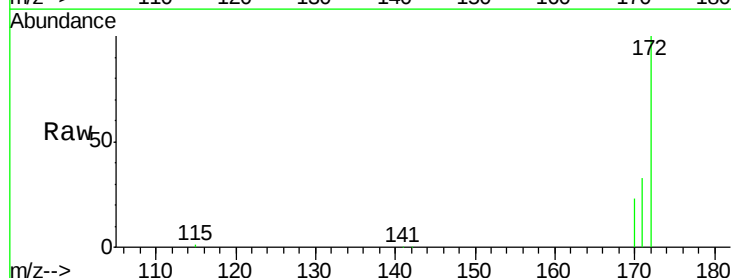
Tgt Ion:172 Resp: 32535

Ion Ratio Lower Upper

172 100

171 33.0 25.4 38.2

170 23.0 17.4 26.2

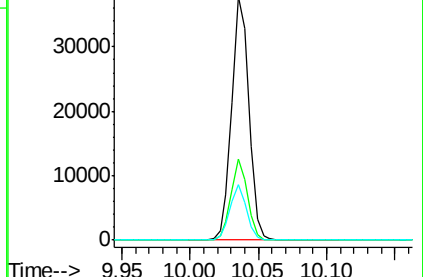
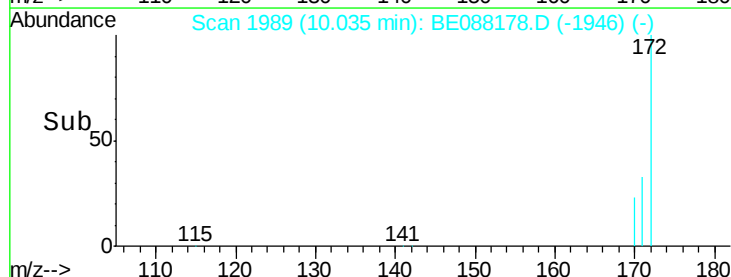


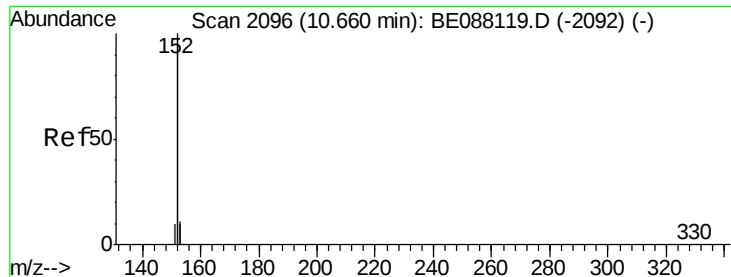
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

10.04





#9

Acenaphthylene

Concen: 0.91 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

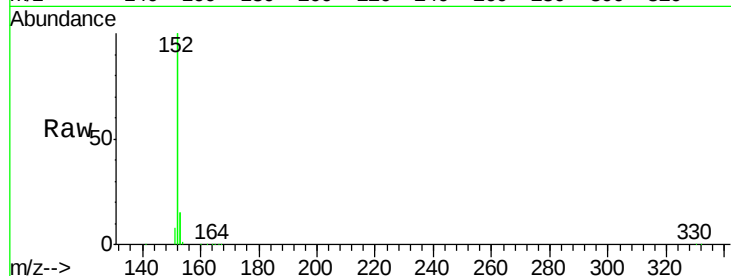
Tgt Ion:152 Resp: 80327

Ion Ratio Lower Upper

152 100

151 4.7 3.7 5.5

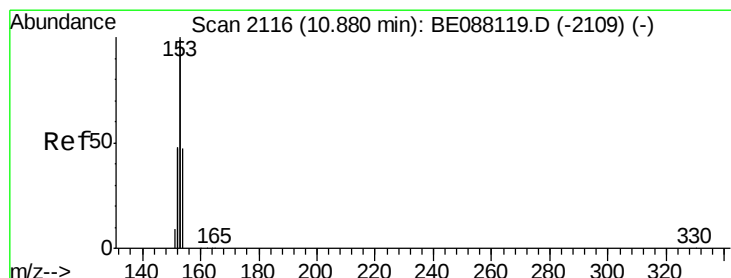
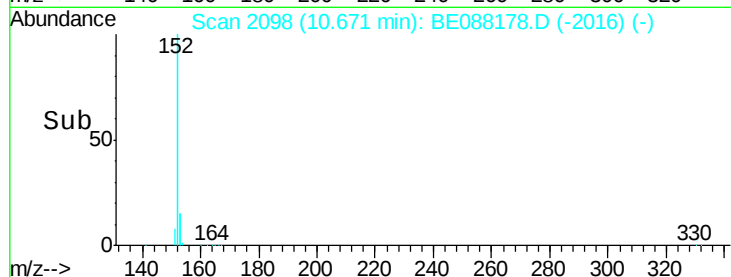
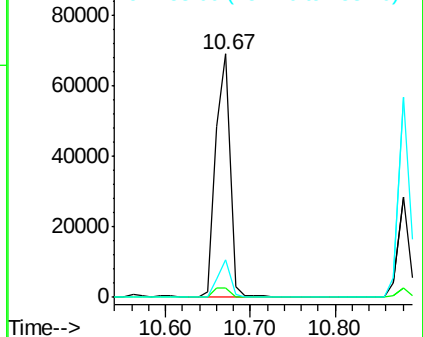
153 13.0 10.4 15.6



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: 0.93 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

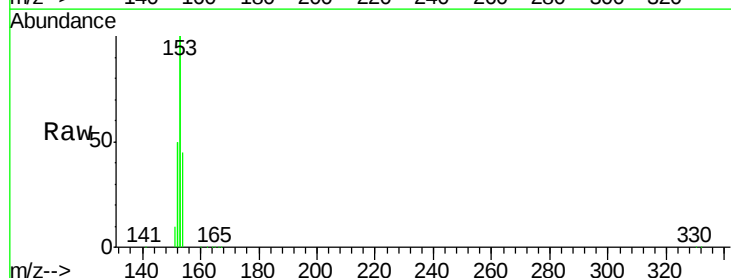
Tgt Ion:154 Resp: 12701

Ion Ratio Lower Upper

154 100

153 407.4 327.8 491.6

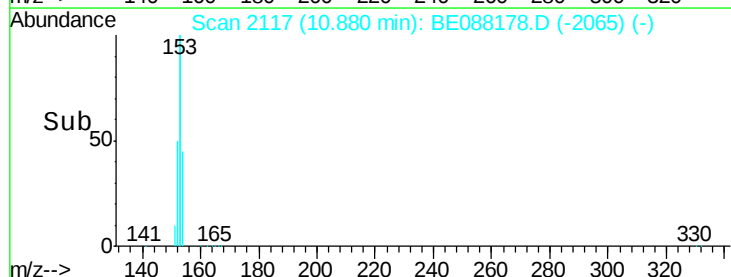
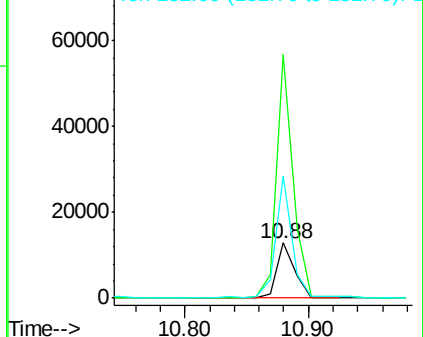
152 196.6 157.6 236.4

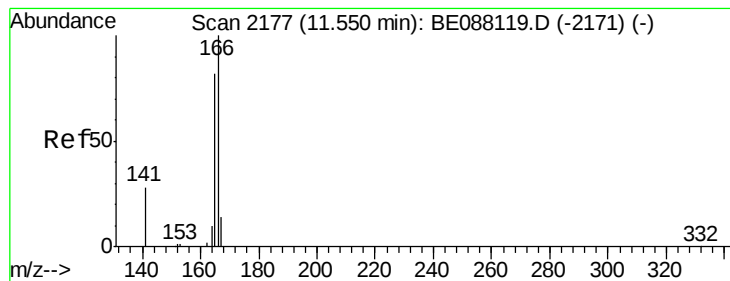


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.96 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

Instrument :

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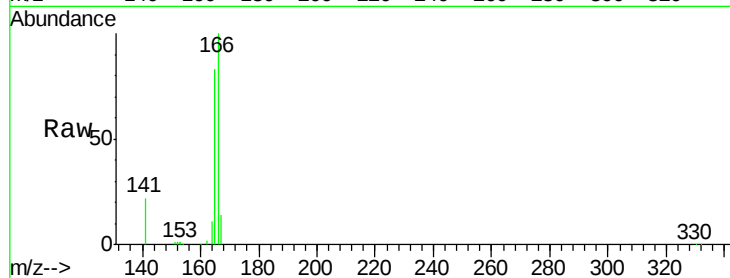
Tgt Ion:166 Resp: 13946

Ion Ratio Lower Upper

166 100

165 88.9 71.4 107.2

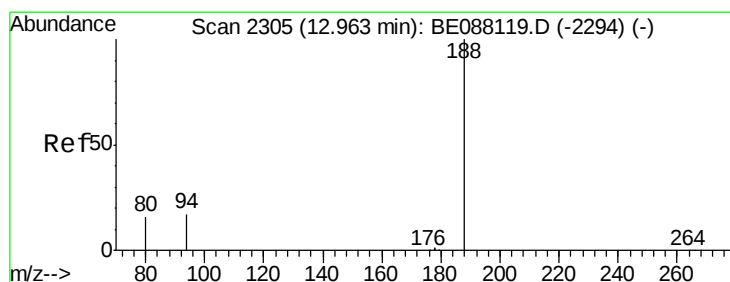
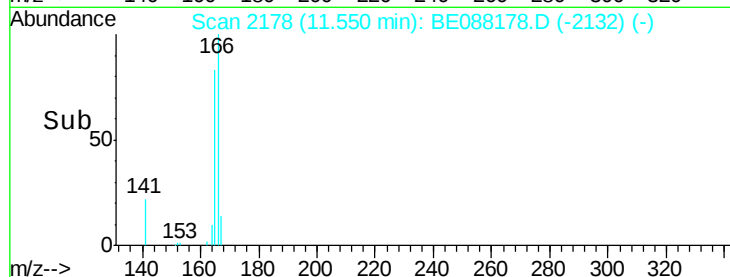
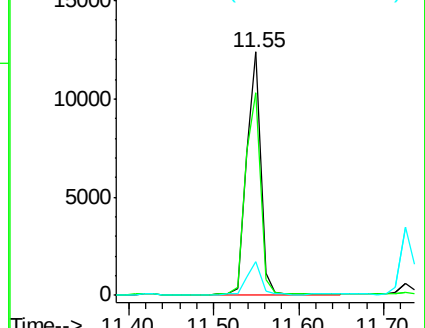
167 13.4 10.6 16.0



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: 12.97 min Scan# 2307

Delta R.T. 0.01 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

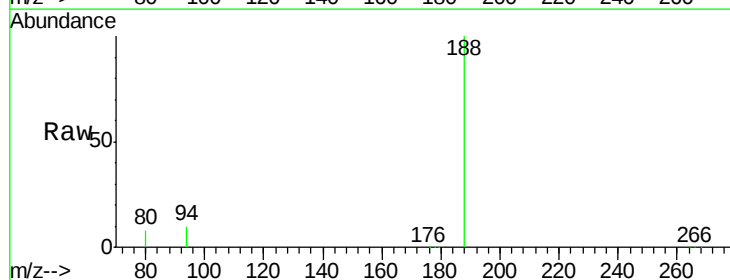
Tgt Ion:188 Resp: 103037

Ion Ratio Lower Upper

188 100

94 9.7 13.9 20.9#

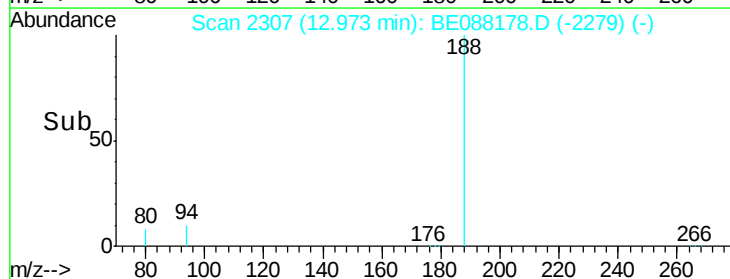
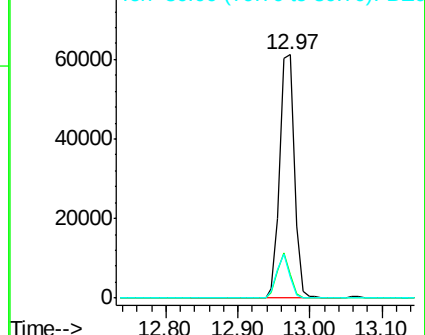
80 8.4 12.9 19.3#

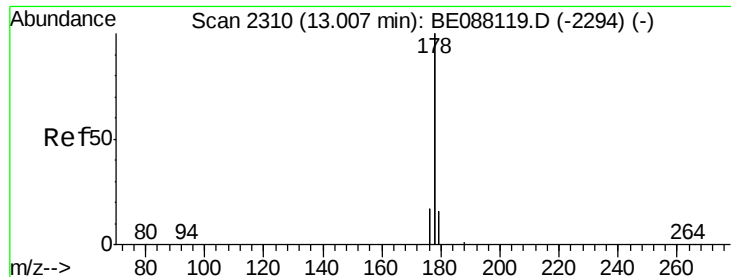


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

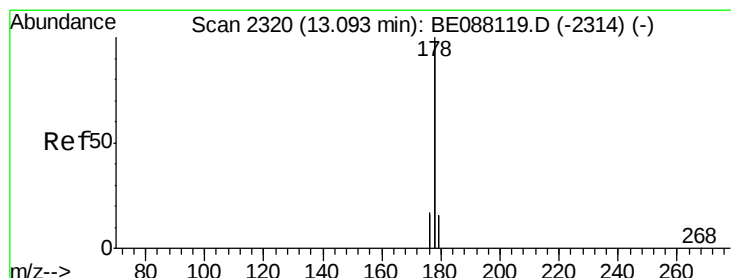
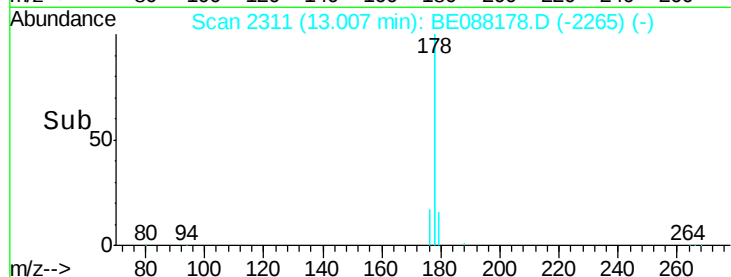
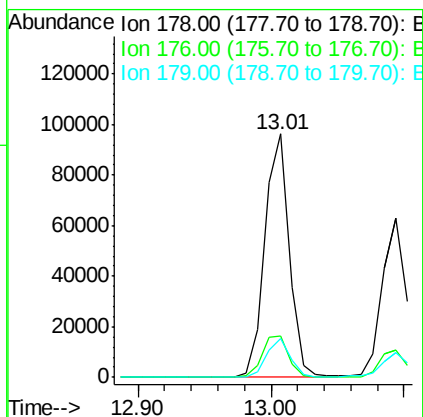
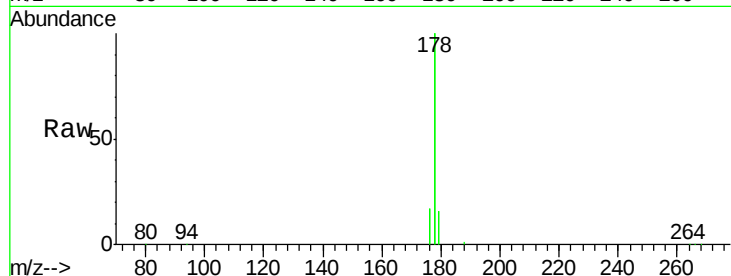




#13
Phenanthrene
Concen: 1.44 ng
RT: 13.01 min Scan# 2311
Delta R.T. 0.00 min
Lab File: BE088178.D
Acq: 22 Oct 2014 12:29

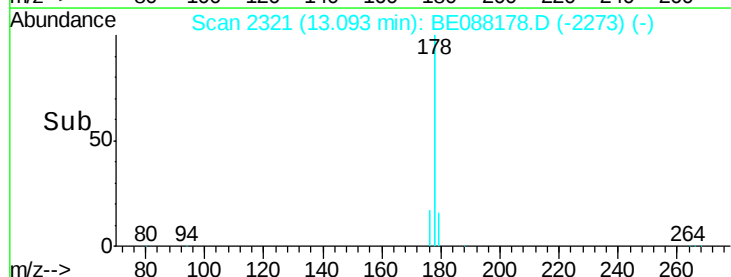
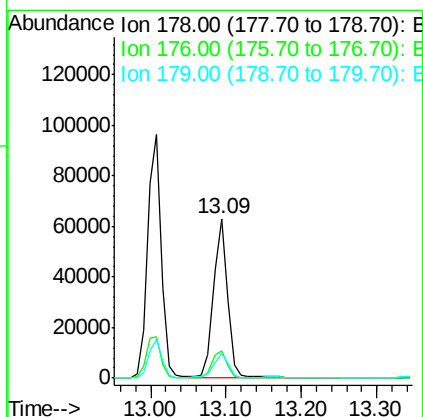
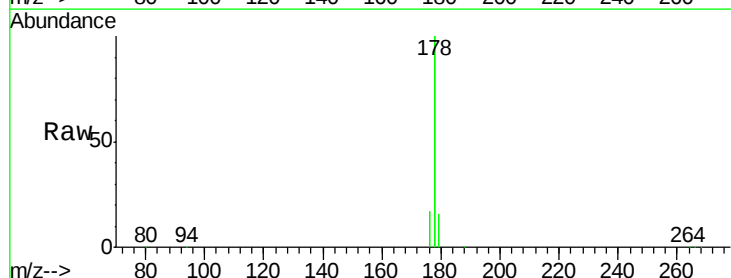
Instrument :
BNA_E
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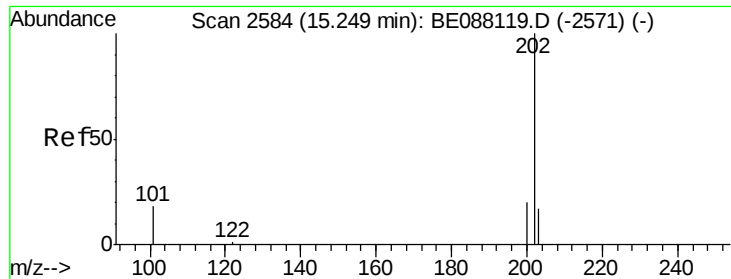
Tgt Ion:178 Resp: 121685
Ion Ratio Lower Upper
178 100
176 18.4 12.5 18.7
179 15.5 13.5 20.3



#14
Anthracene
Concen: 0.99 ng
RT: 13.09 min Scan# 2321
Delta R.T. 0.00 min
Lab File: BE088178.D
Acq: 22 Oct 2014 12:29

Tgt Ion:178 Resp: 79701
Ion Ratio Lower Upper
178 100
176 17.8 14.6 21.8
179 15.8 12.5 18.7

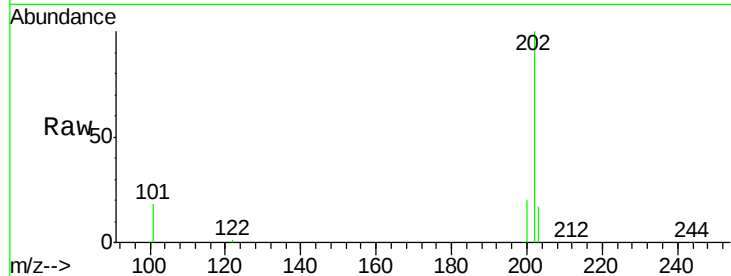




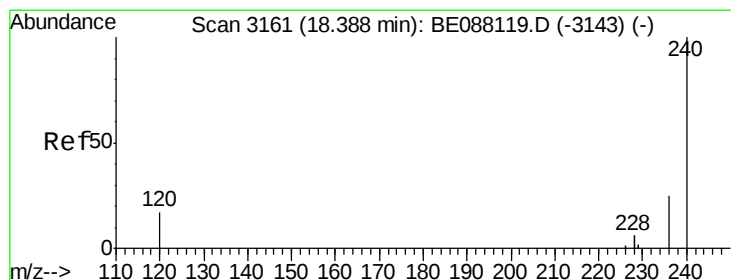
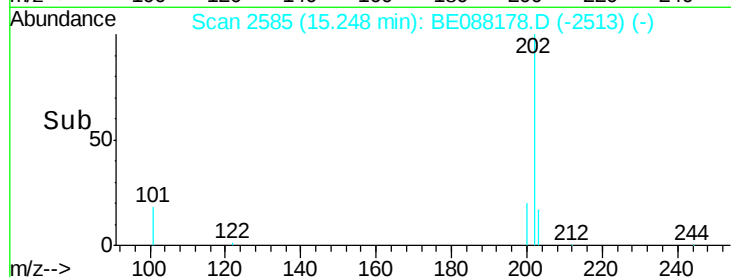
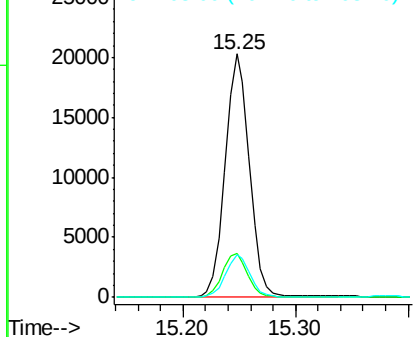
#15
 Fluoranthene
 Concen: 1.53 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: BE088178.D
 Acq: 22 Oct 2014 12:29

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion: 202 Resp: 30083
 Ion Ratio Lower Upper
 202 100
 101 18.4 14.8 22.2
 203 17.2 13.5 20.3

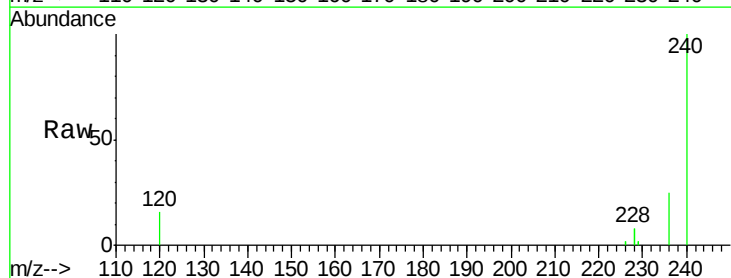


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

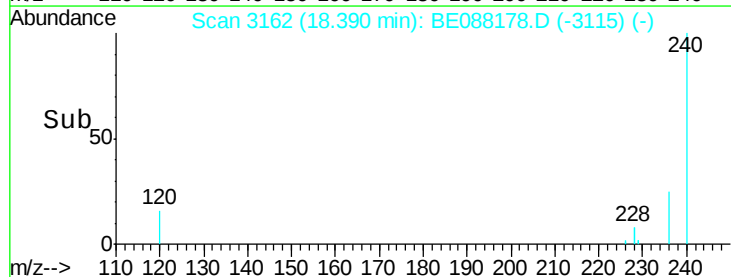
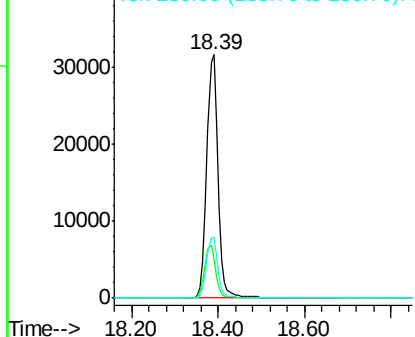


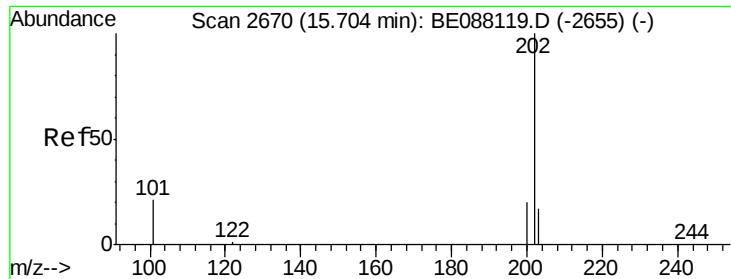
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3162
 Delta R.T. 0.00 min
 Lab File: BE088178.D
 Acq: 22 Oct 2014 12:29

Tgt Ion: 240 Resp: 56694
 Ion Ratio Lower Upper
 240 100
 120 16.0 13.9 20.9
 236 24.7 19.9 29.9



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

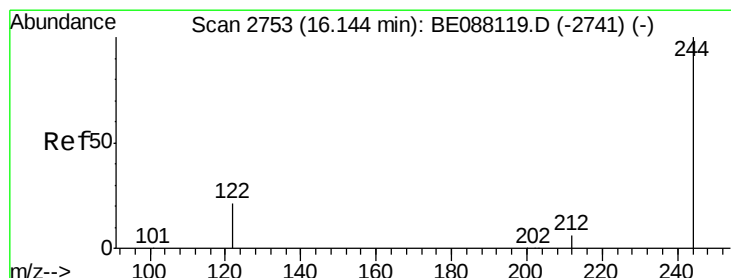
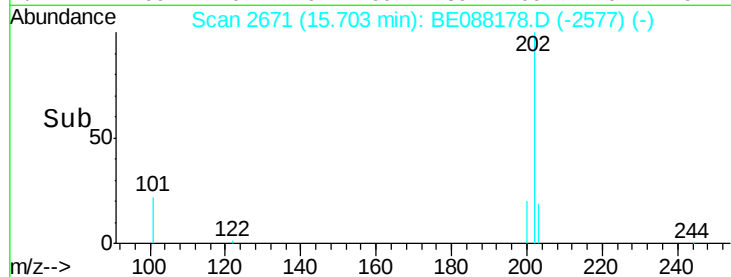
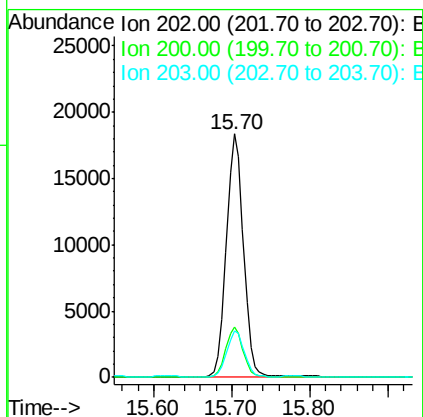
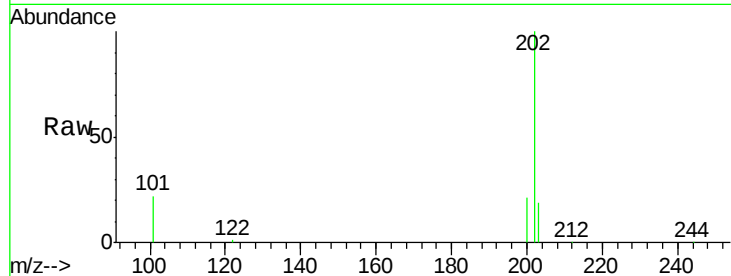




#17
 Pyrene
 Concen: 1.80 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: BE088178.D
 Acq: 22 Oct 2014 12:29

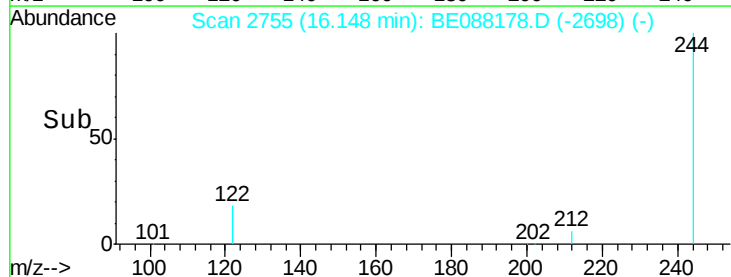
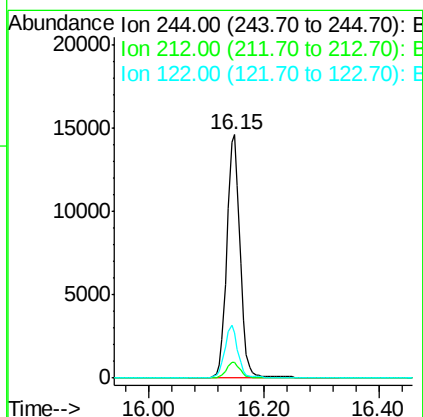
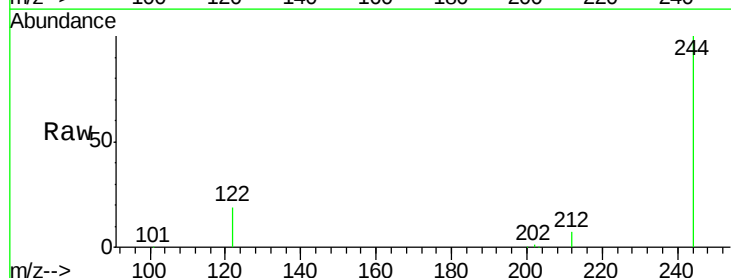
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion: 202 Resp: 27690
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.1 24.1
 203 19.0 13.9 20.9



#18
 Terphenyl-d14
 Concen: 2.52 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088178.D
 Acq: 22 Oct 2014 12:29

Tgt Ion: 244 Resp: 23018
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.4 8.0
 122 18.5 17.5 26.3





#19

Benzo(a)anthracene

Concen: 1.25 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

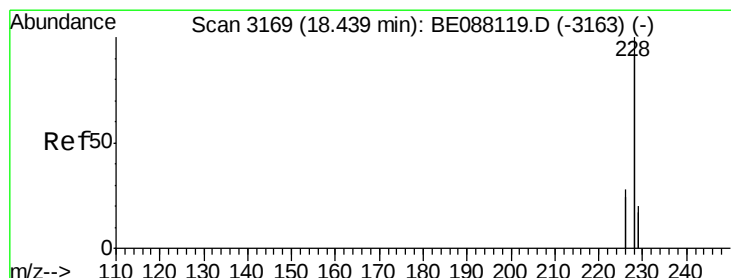
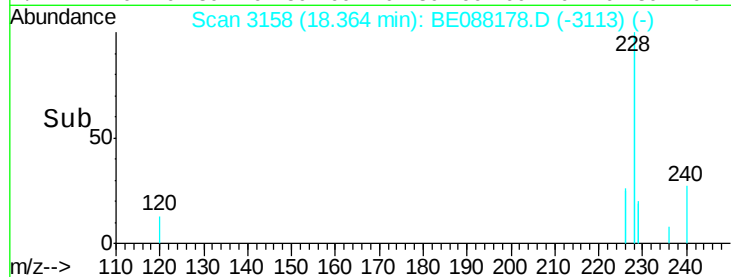
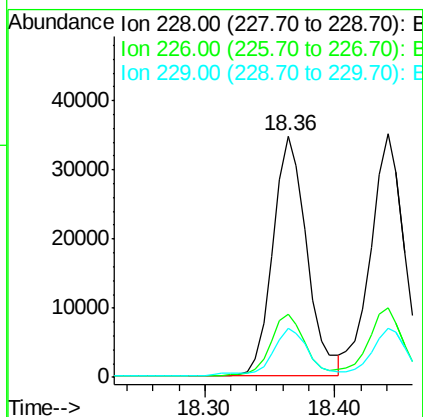
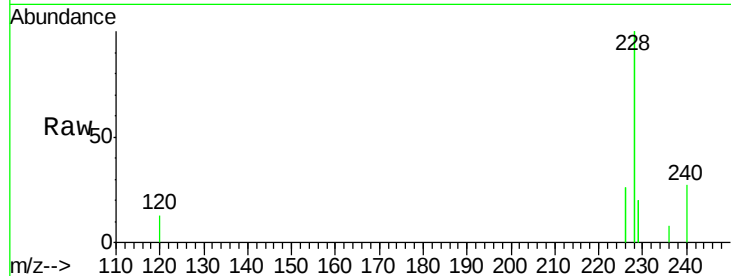
Tgt Ion:228 Resp: 63171

Ion Ratio Lower Upper

228 100

226 25.9 20.8 31.2

229 20.1 15.6 23.4



#20

Chrysene

Concen: 1.30 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

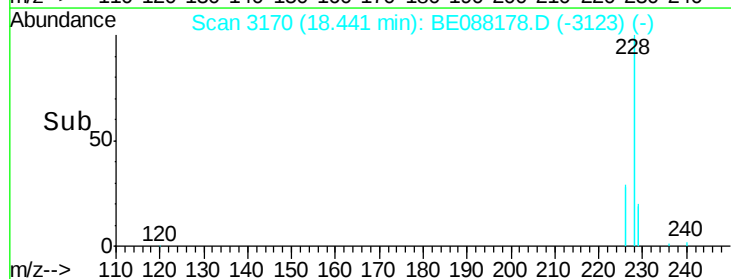
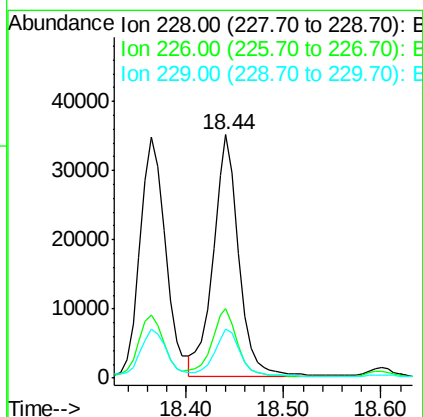
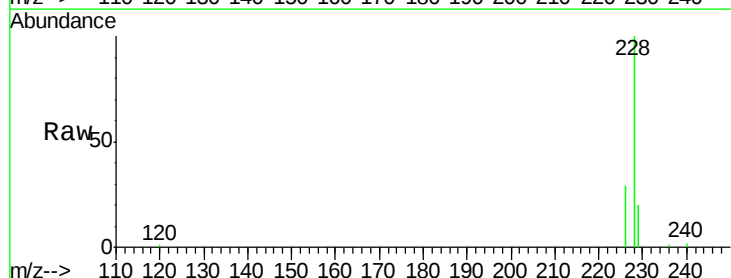
Tgt Ion:228 Resp: 64292

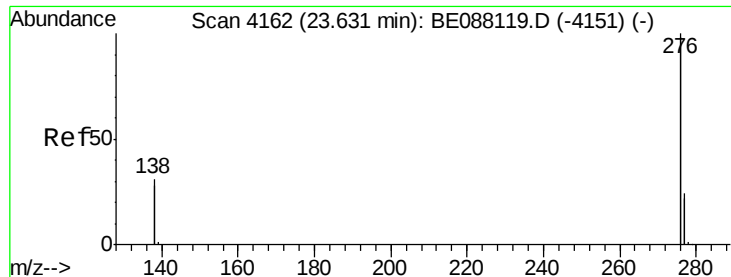
Ion Ratio Lower Upper

228 100

226 28.6 22.7 34.1

229 20.3 15.8 23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.91 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

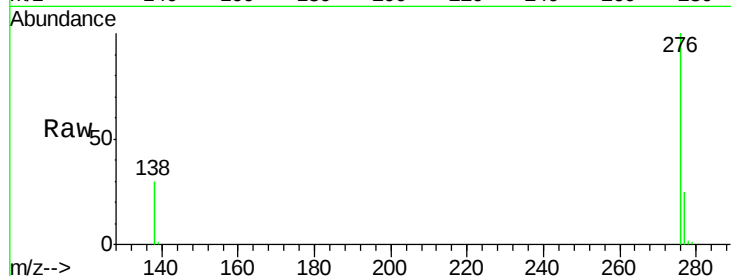
Tgt Ion: 276 Resp: 49842

Ion Ratio Lower Upper

276 100

138 29.5 18.5 27.7#

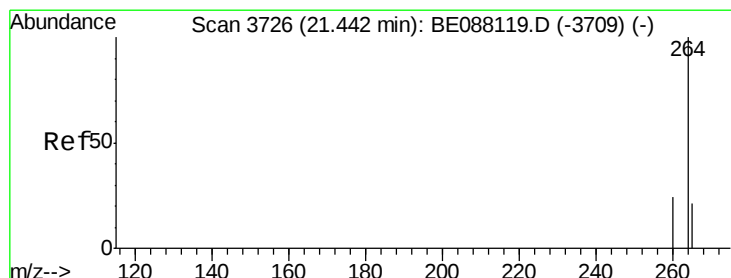
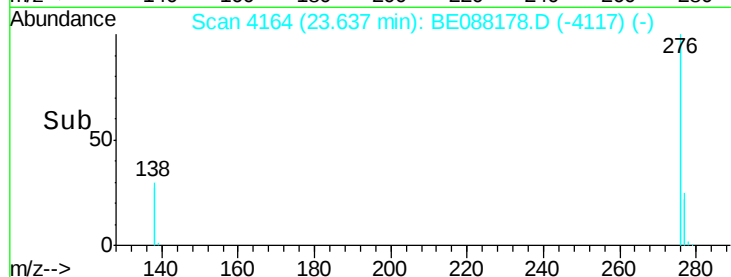
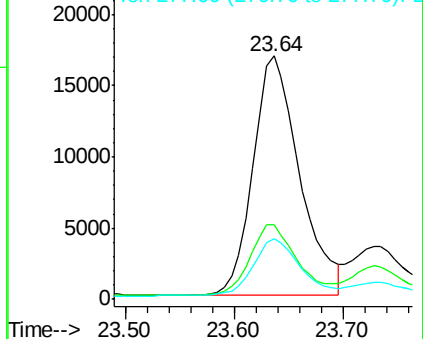
277 24.0 14.6 21.8#



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: 21.44 min Scan# 3727

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

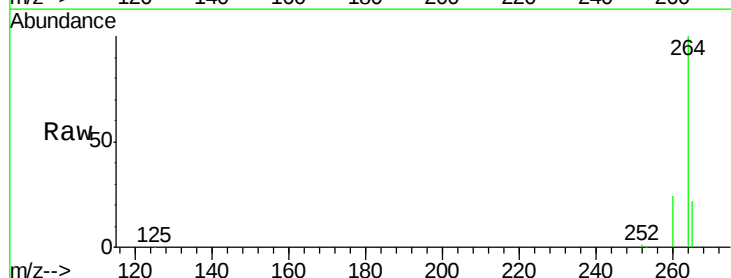
Tgt Ion: 264 Resp: 52921

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

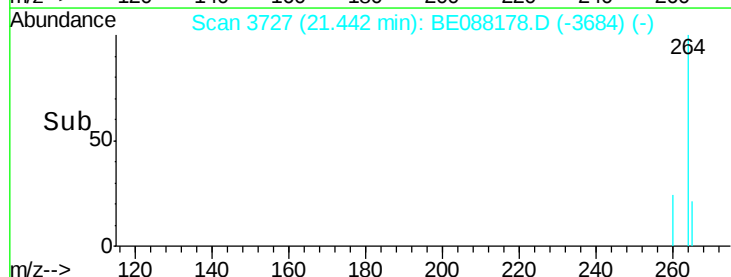
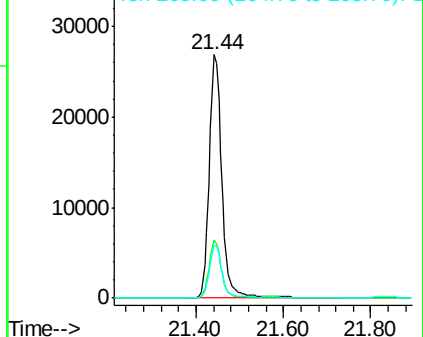
265 21.6 17.2 25.8

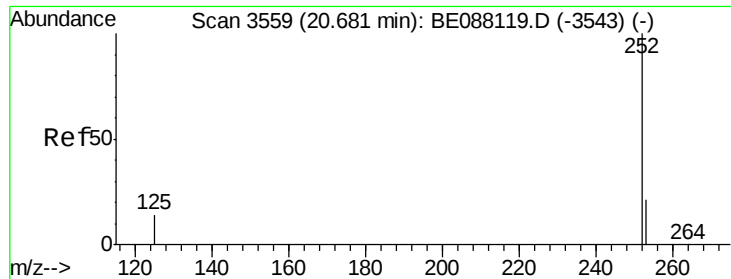


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 1.30 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.01 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

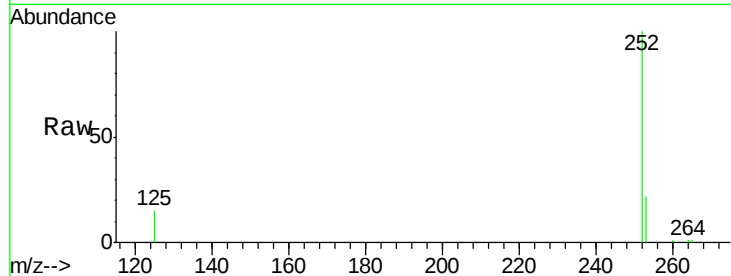
Tgt Ion:252 Resp: 16412

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

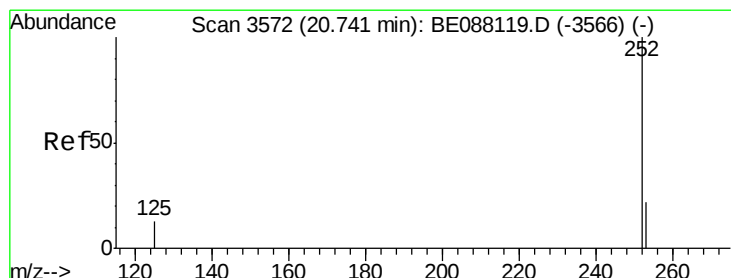
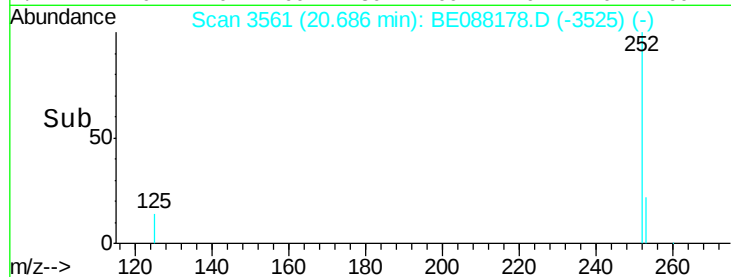
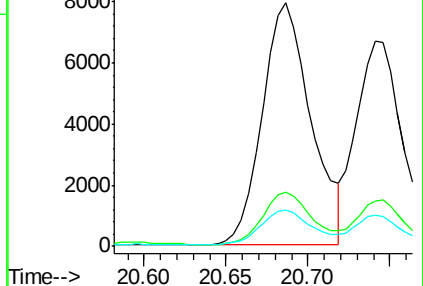
125 14.9 11.8 17.8



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: 1.04 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

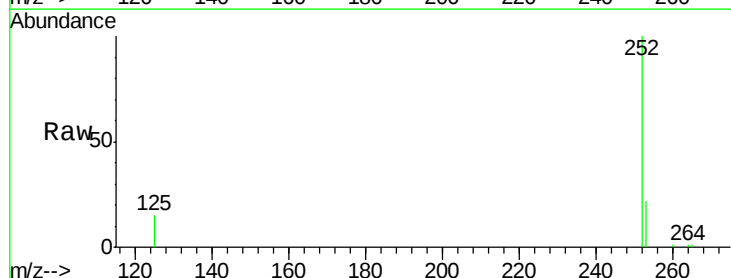
Tgt Ion:252 Resp: 13966

Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

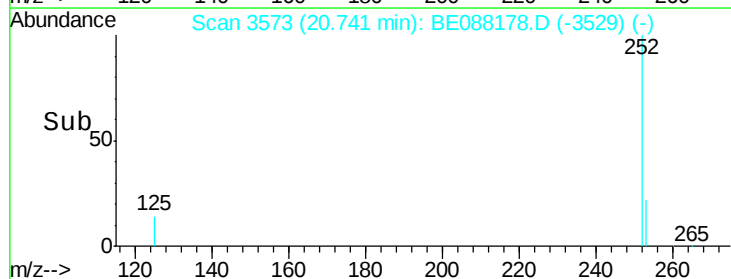
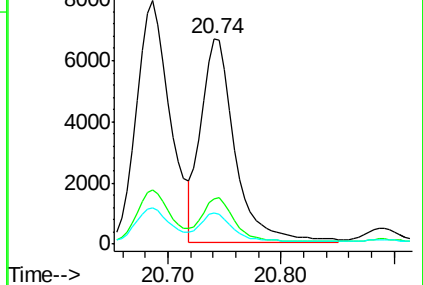
125 15.2 11.5 17.3



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





#25

Benzo(a)pyrene

Concen: 1.23 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

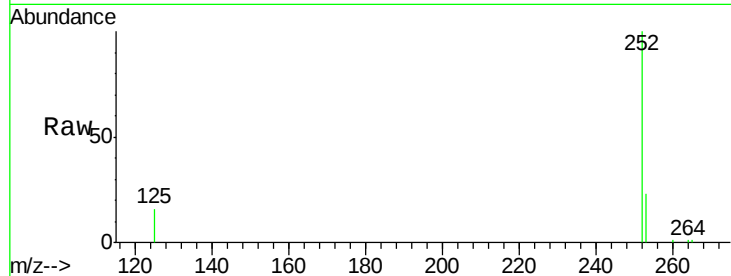
Tgt Ion:252 Resp: 14245

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

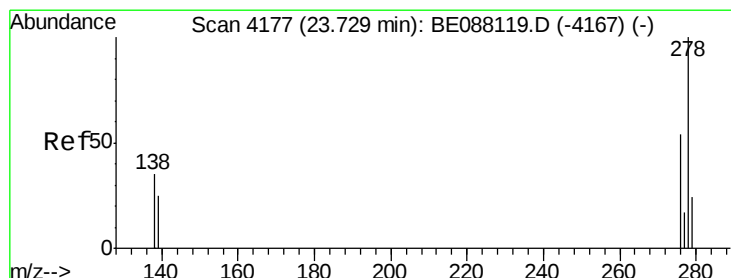
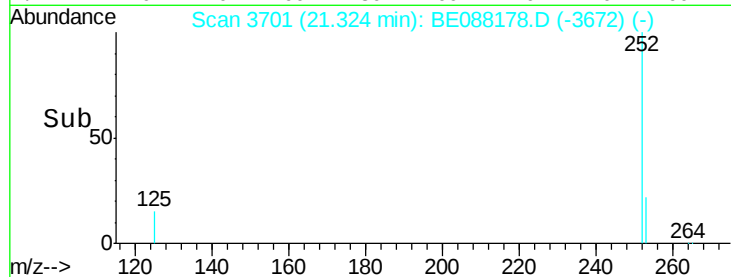
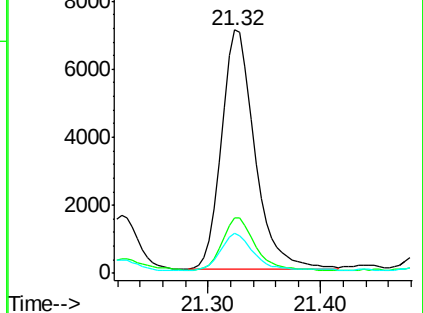
125 16.2 13.0 19.6



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: 0.89 ng

RT: 23.73 min Scan# 4179

Delta R.T. 0.01 min

Lab File: BE088178.D

Acq: 22 Oct 2014 12:29

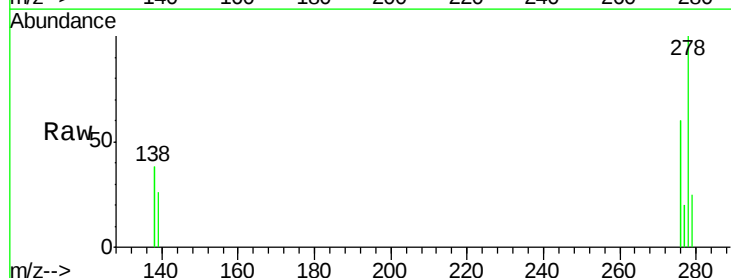
Tgt Ion:278 Resp: 10177

Ion Ratio Lower Upper

278 100

139 26.3 20.9 31.3

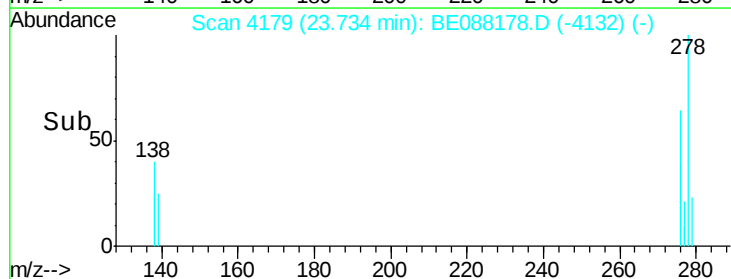
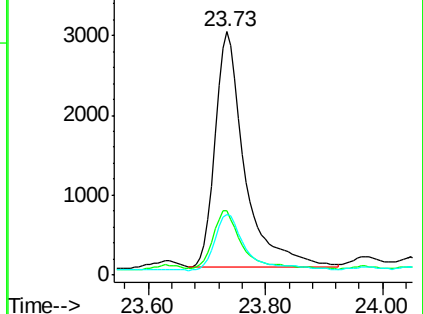
279 24.9 19.8 29.8

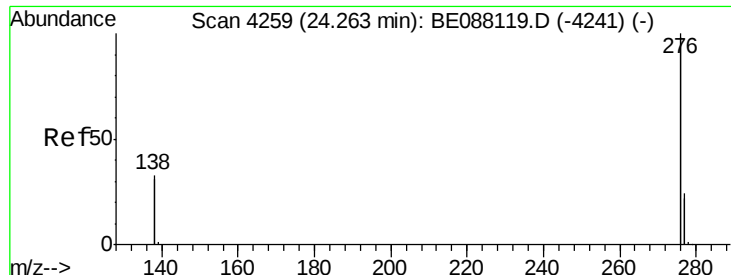


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.16 ng

RT: 24.27 min Scan# 4261

Delta R.T. 0.01 min

Lab File: BE088178.D

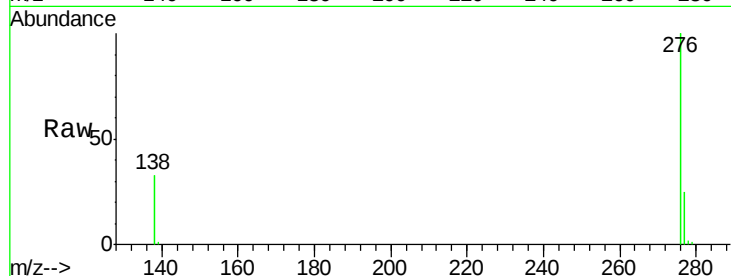
Acq: 22 Oct 2014 12:29

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



Tgt Ion: 276 Resp: 58128

Ion Ratio Lower Upper

276 100

277 24.8 19.2 28.8

138 33.0 26.6 40.0

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

