

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088225.D
 Acq On : 24 Oct 2014 22:17
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Oct 27 13:13:38 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 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	43678	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	164973	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	74227	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	130976	5.00	ng	0.00
16) Chrysene-d12	18.35	240	79143	5.00	ng	0.00
22) Perylene-d12	21.40	264	69298	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	11572	1.05	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	21778	1.05	ng	0.00
18) Terphenyl-d14	16.11	244	13706	1.06	ng	0.00

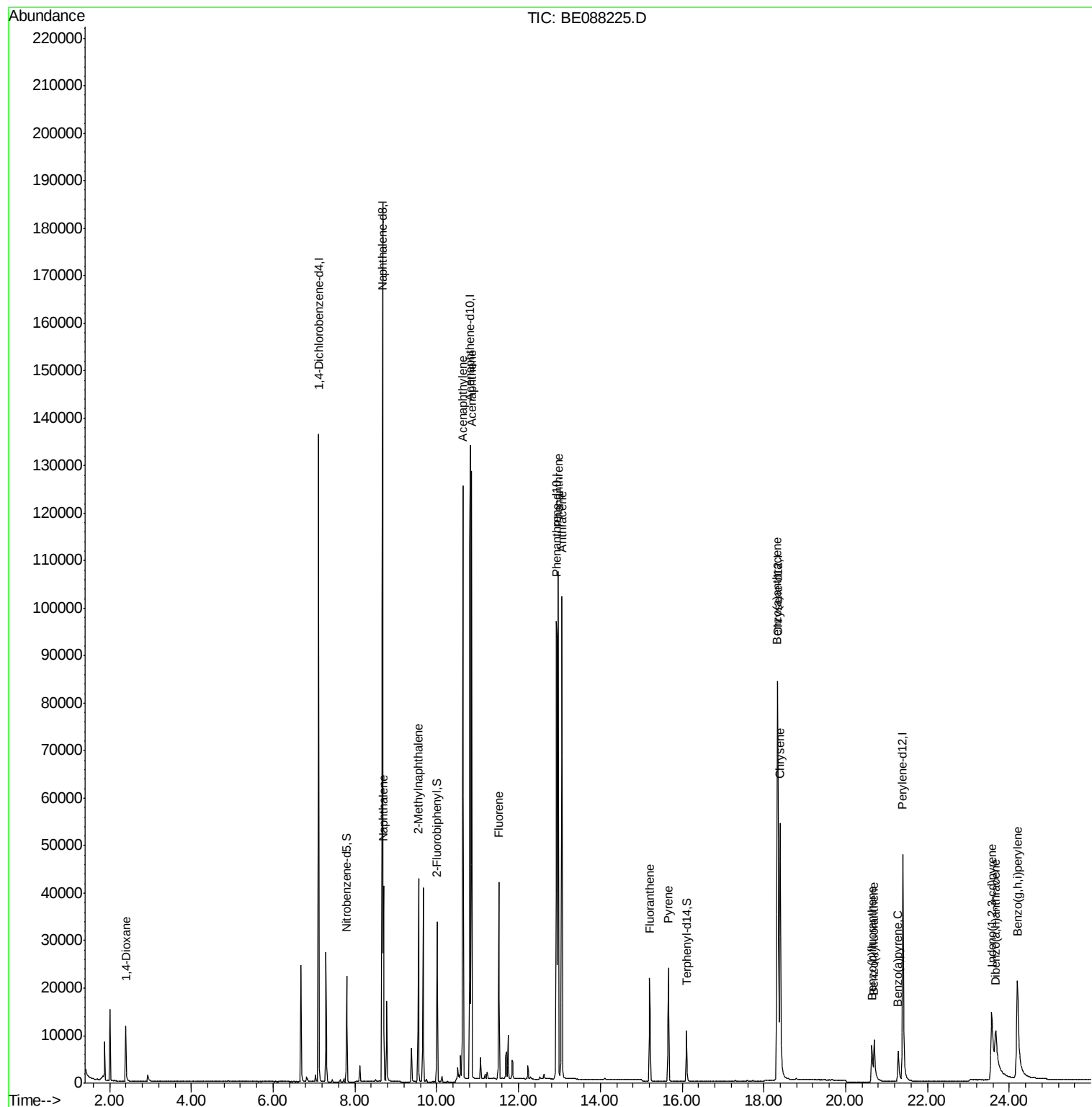
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.39	88	6544	1.08	ng	98
5) Naphthalene	8.70	128	35195	1.05	ng	99
6) 2-Methylnaphthalene	9.55	142	21405	1.06	ng	99
9) Acenaphthylene	10.64	152	120444	1.09	ng	100
10) Acenaphthene	10.86	154	18127	1.03	ng	99
11) Fluorene	11.52	166	19463	1.09	ng	100
13) Phenanthrene	12.97	178	130756	1.03	ng	95
14) Anthracene	13.06	178	100849	1.08	ng	100
15) Fluoranthene	15.21	202	21075	1.10	ng	100
17) Pyrene	15.66	202	23020	1.06	ng	100
19) Benzo(a)anthracene	18.33	228	64622	1.04	ng	100
20) Chrysene	18.40	228	72062	1.02	ng	100
21) Indeno(1,2,3-cd)pyrene	23.57	276	33706	0.68	ng	# 74
23) Benzo(b)fluoranthene	20.64	252	11789	0.94	ng	99
24) Benzo(k)fluoranthene	20.70	252	18736	1.05	ng	100
25) Benzo(a)pyrene	21.28	252	11976	0.97	ng	99
26) Dibenzo(a,h)anthracene	23.67	278	10688	0.95	ng	100
27) Benzo(g,h,i)perylene	24.20	276	56634	1.02	ng	99

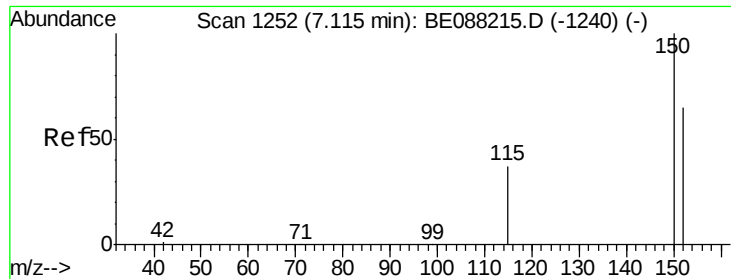
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

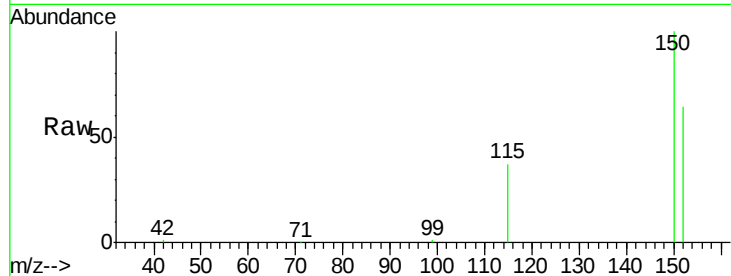
Tgt Ion:152 Resp: 43678

Ion Ratio Lower Upper

152 100

150 155.5 123.2 184.8

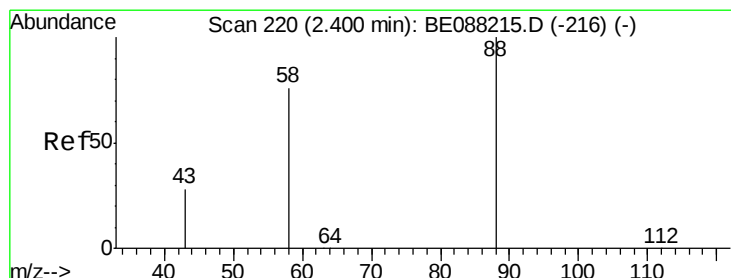
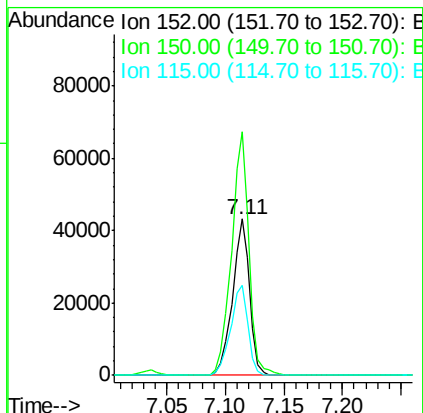
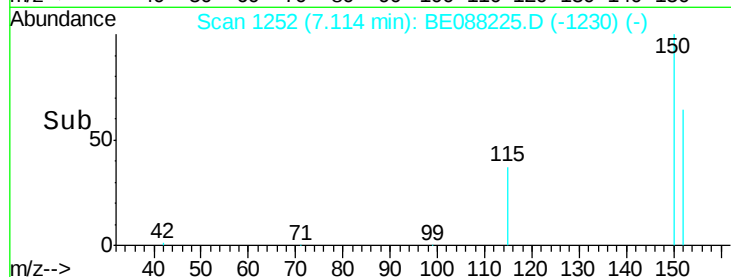
115 57.8 45.3 67.9



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: 1.08 ng

RT: 2.39 min Scan# 219

Delta R.T. -0.01 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

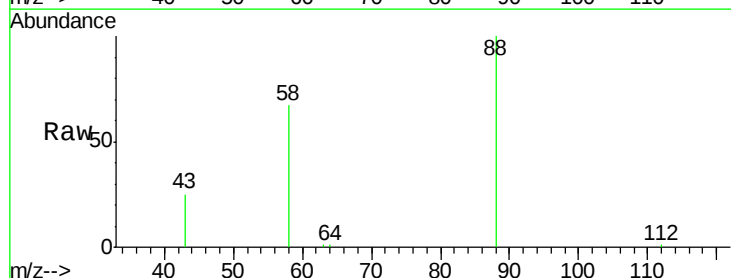
Tgt Ion: 88 Resp: 6544

Ion Ratio Lower Upper

88 100

58 75.3 59.0 88.4

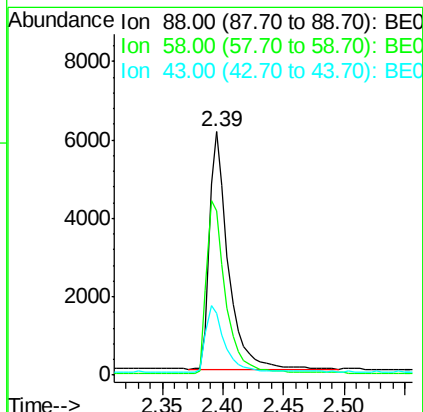
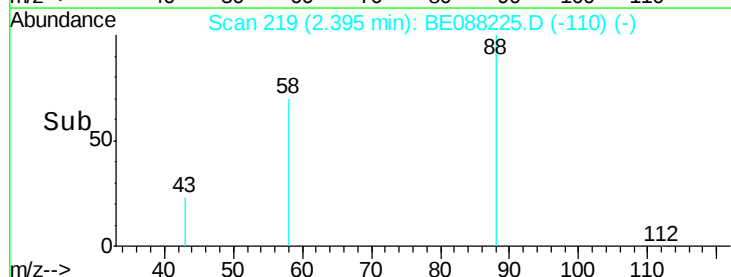
43 27.8 21.9 32.9

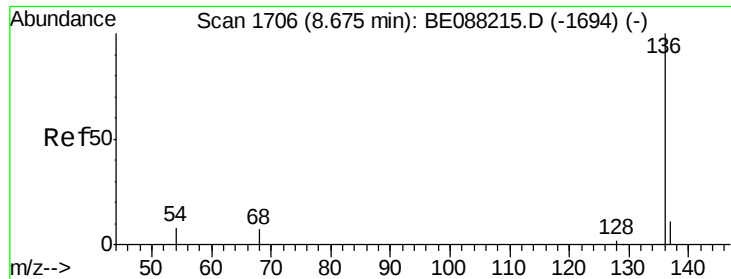


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

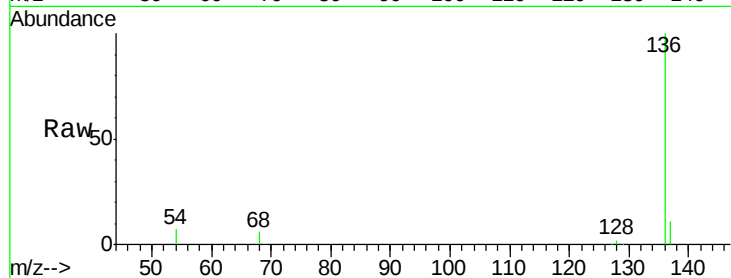




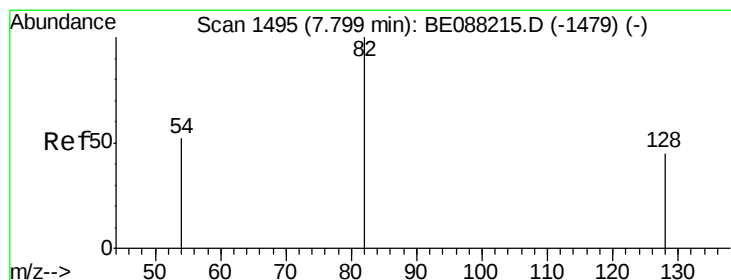
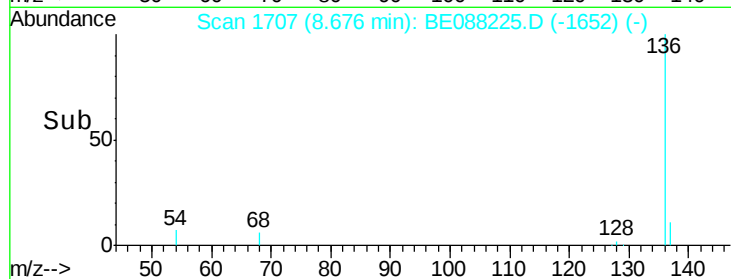
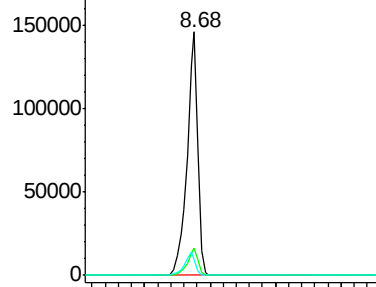
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.68 min Scan# 1707
Delta R.T. 0.00 min
Lab File: BE088225.D
Acq: 24 Oct 2014 22:17

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion: 136 Resp: 164973
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 6.6 6.1 9.1

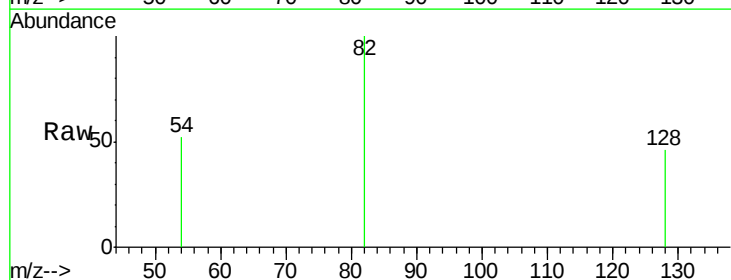


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

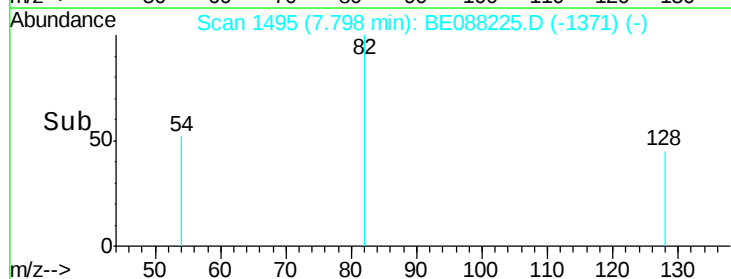
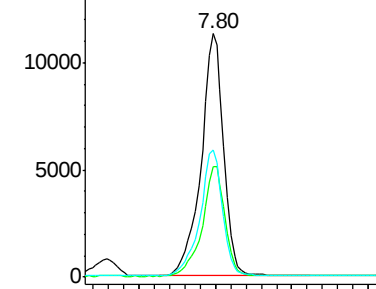


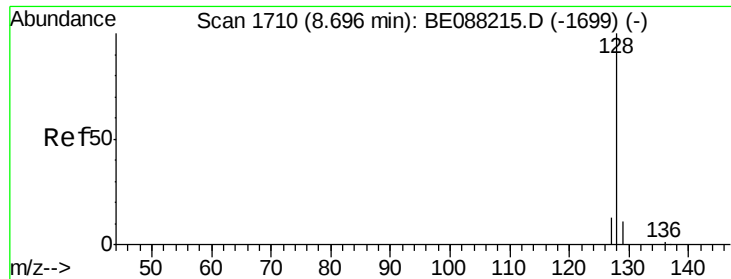
#4
Nitrobenzene-d5
Concen: 1.05 ng
RT: 7.80 min Scan# 1495
Delta R.T. 0.00 min
Lab File: BE088225.D
Acq: 24 Oct 2014 22:17

Tgt Ion: 82 Resp: 11572
Ion Ratio Lower Upper
82 100
128 45.6 36.2 54.2
54 52.4 41.8 62.8



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: 1.05 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

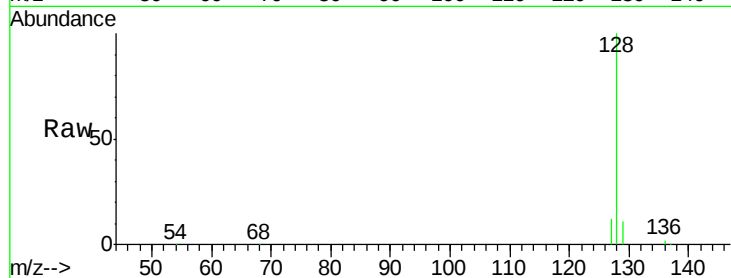
Tgt Ion:128 Resp: 35195

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

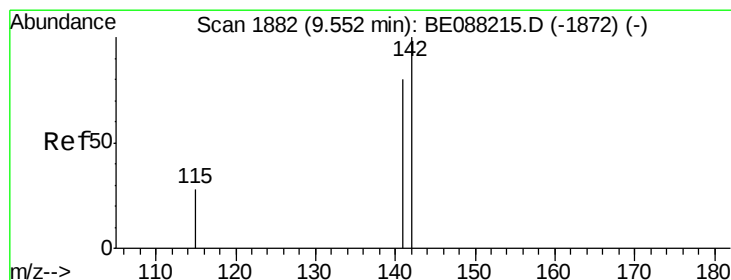
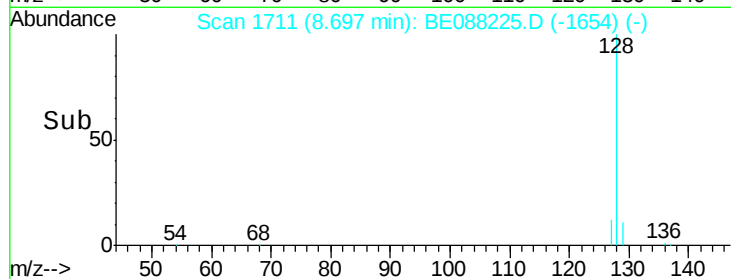
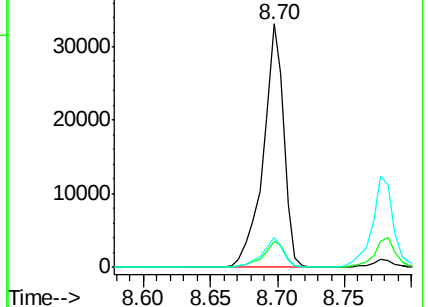
127 12.3 10.4 15.6



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: 1.06 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

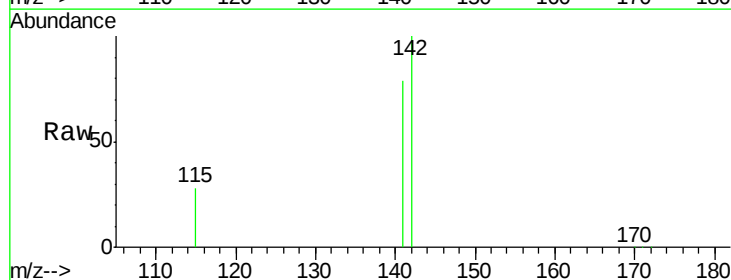
Tgt Ion:142 Resp: 21405

Ion Ratio Lower Upper

142 100

141 78.7 63.7 95.5

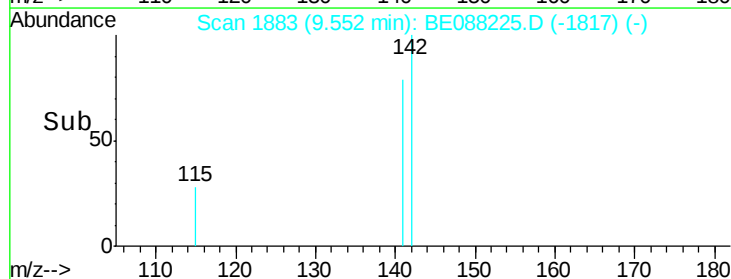
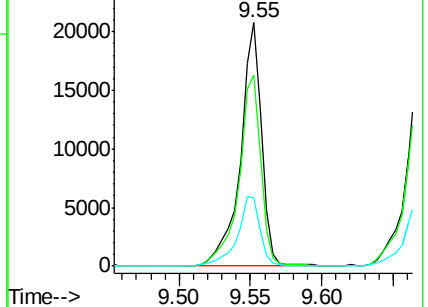
115 27.9 22.6 34.0

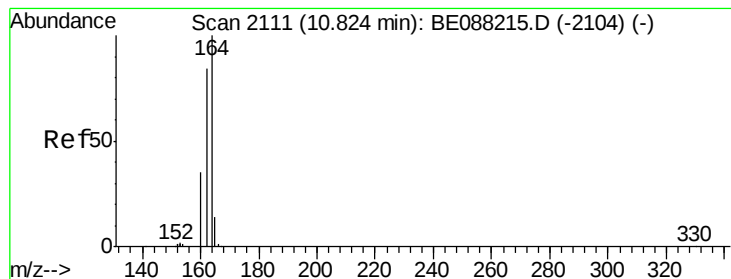


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.82 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

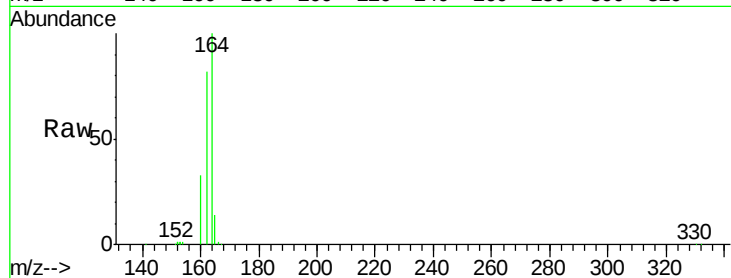
Tgt Ion:164 Resp: 74227

Ion Ratio Lower Upper

164 100

162 82.4 67.4 101.0

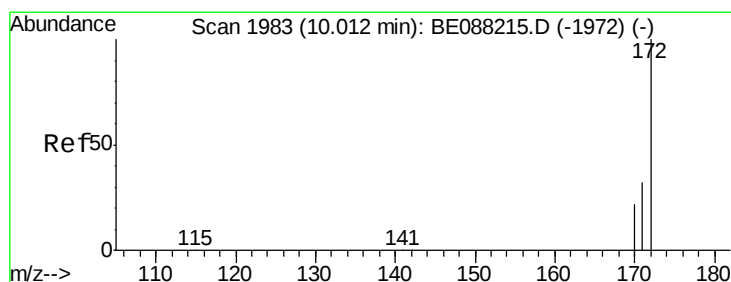
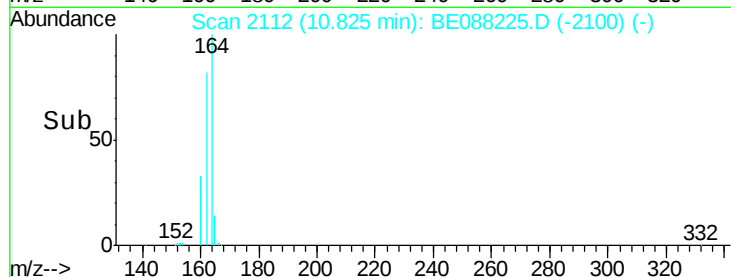
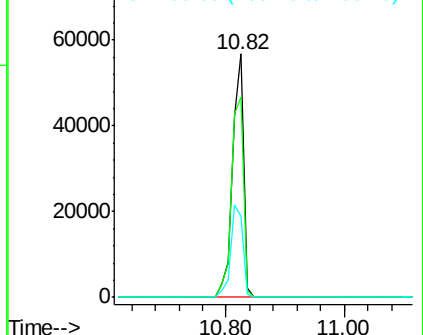
160 33.1 27.7 41.5



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: 1.05 ng

RT: 10.01 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

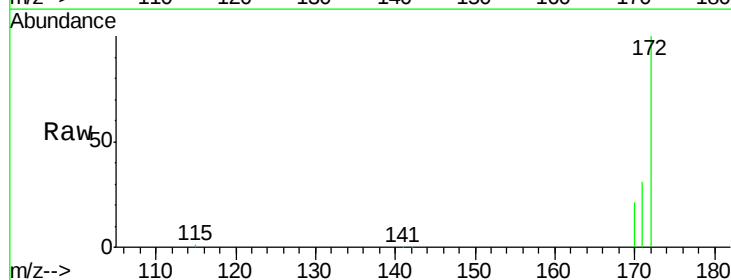
Tgt Ion:172 Resp: 21778

Ion Ratio Lower Upper

172 100

171 31.3 25.8 38.6

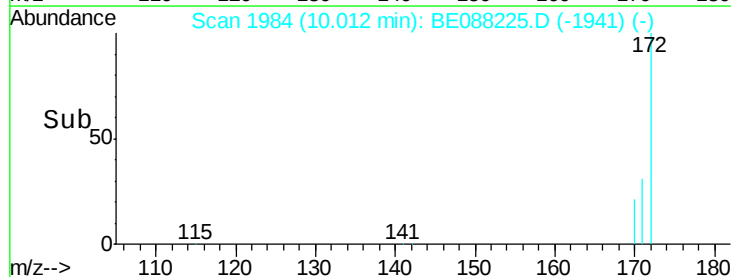
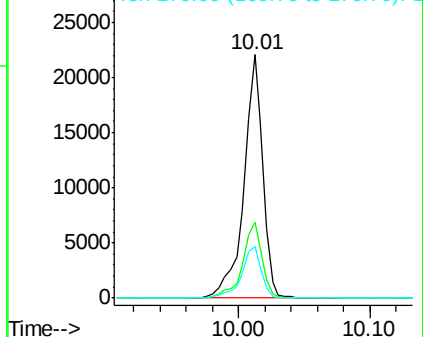
170 21.3 17.4 26.0

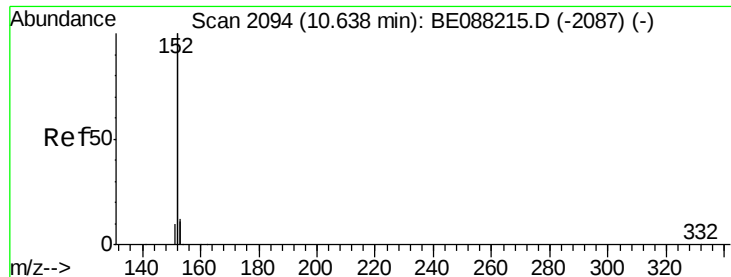


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.09 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

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ClientSampleId :

SSTDCCC001EC

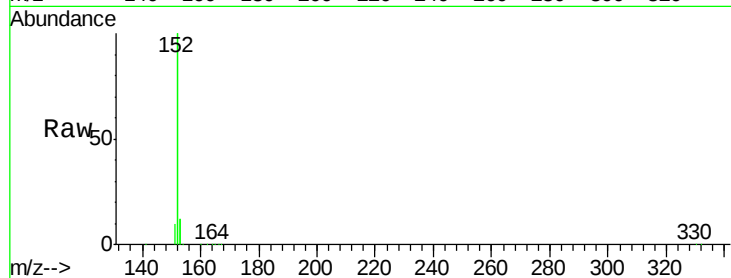
Tgt Ion:152 Resp: 120444

Ion Ratio Lower Upper

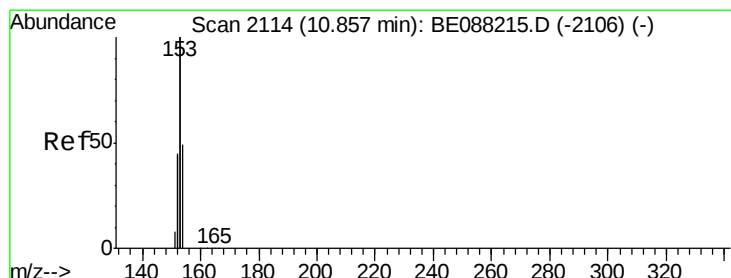
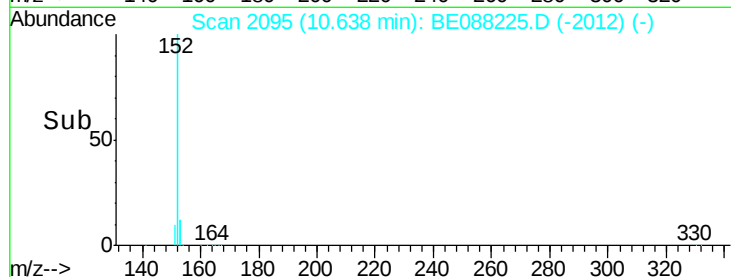
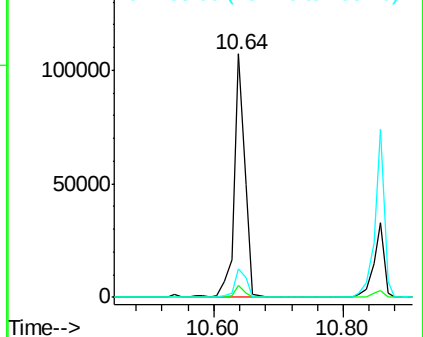
152 100

151 4.6 3.7 5.5

153 13.0 10.3 15.5



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: 1.03 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

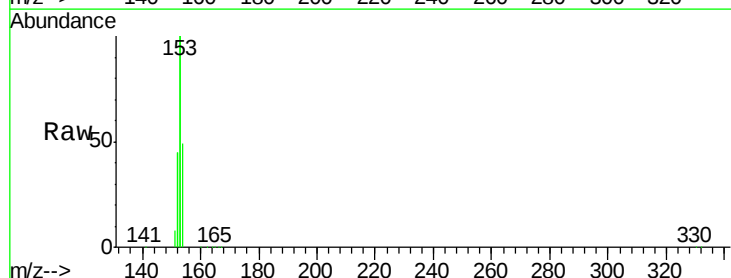
Tgt Ion:154 Resp: 18127

Ion Ratio Lower Upper

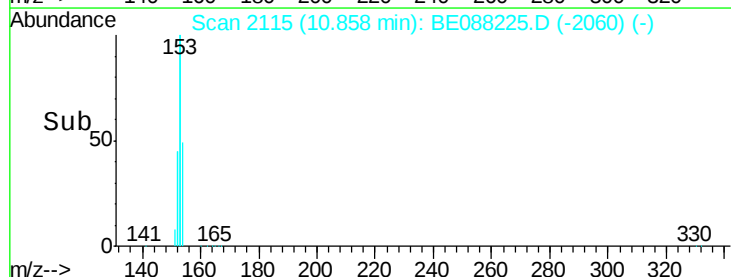
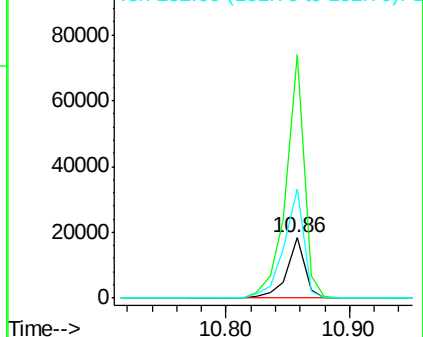
154 100

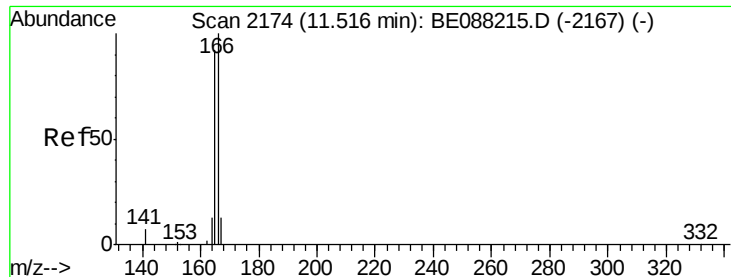
153 409.4 326.0 489.0

152 196.9 155.6 233.4



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: 1.09 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

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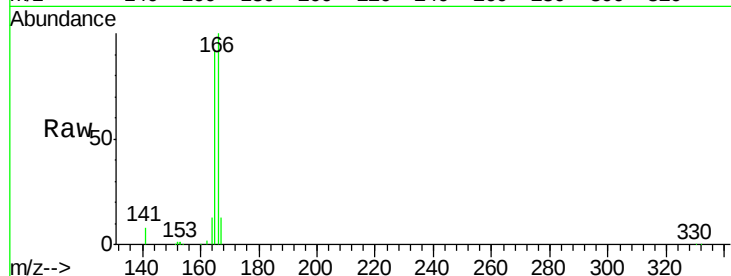
Tgt Ion:166 Resp: 19463

Ion Ratio Lower Upper

166 100

165 89.4 71.8 107.6

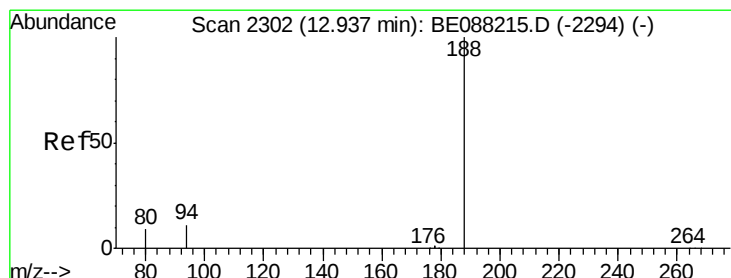
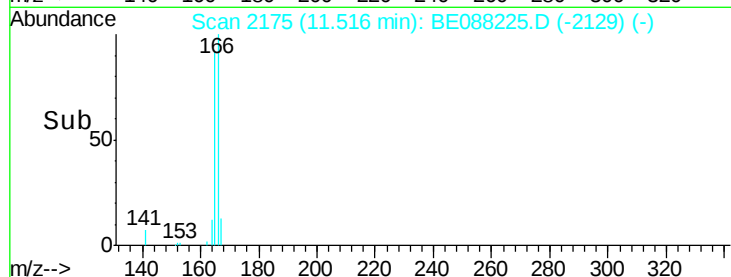
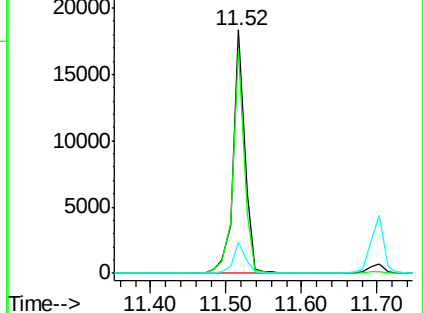
167 13.1 10.7 16.1



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: 12.94 min Scan# 2303

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

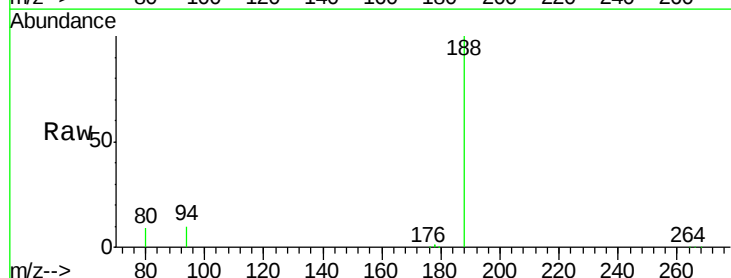
Tgt Ion:188 Resp: 130976

Ion Ratio Lower Upper

188 100

94 10.4 8.5 12.7

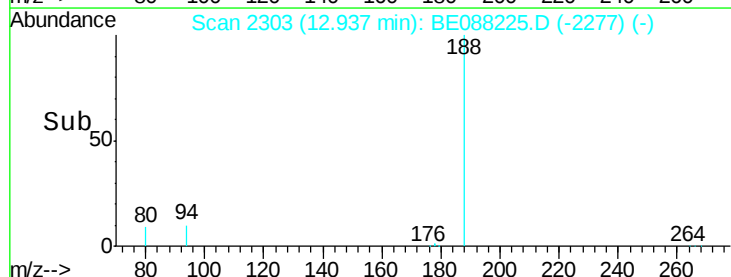
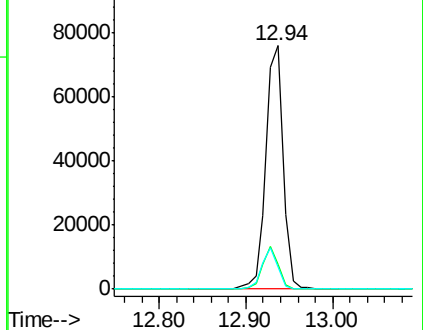
80 8.9 7.4 11.0

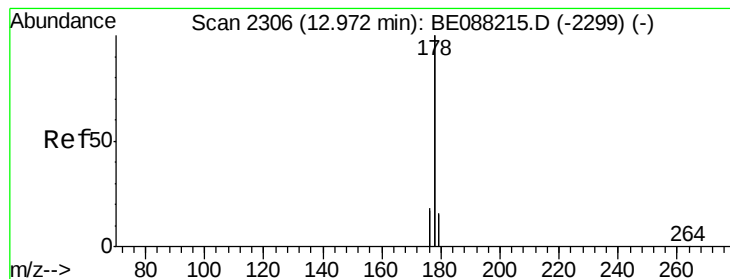


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 1.03 ng

RT: 12.97 min Scan# 2307

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

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BNA_E

ClientSampleId :

SSTDCCC001EC

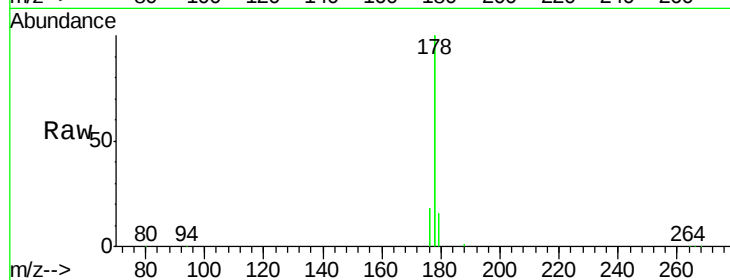
Tgt Ion:178 Resp: 130756

Ion Ratio Lower Upper

178 100

176 19.6 14.0 21.0

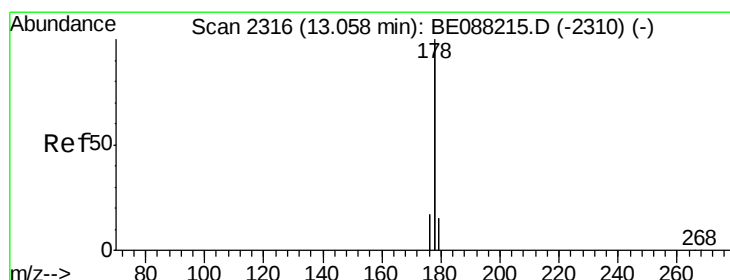
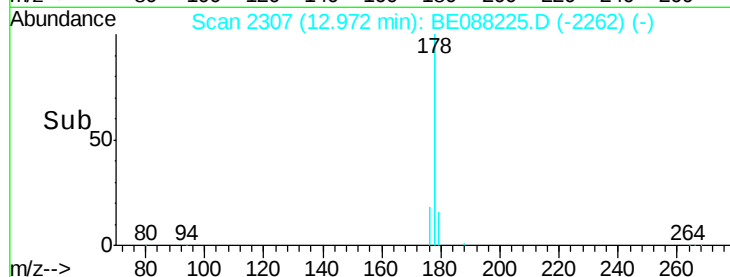
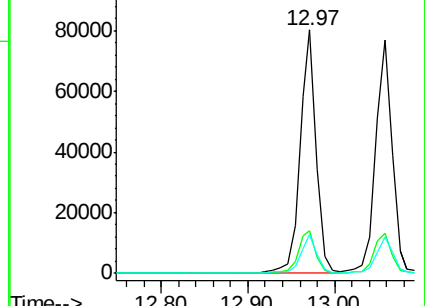
179 16.6 11.8 17.6



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: 1.08 ng

RT: 13.06 min Scan# 2317

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

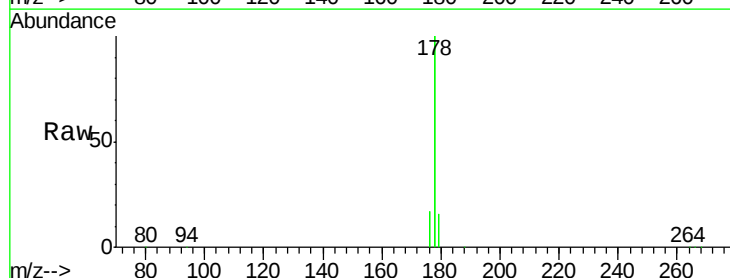
Tgt Ion:178 Resp: 100849

Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

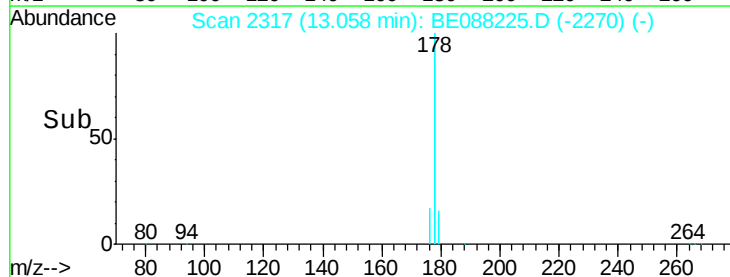
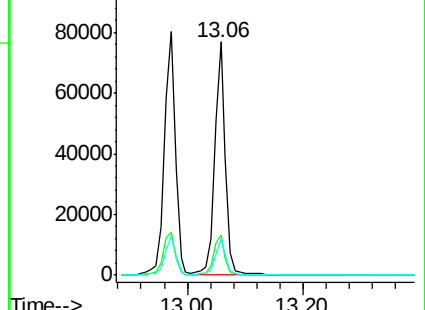
179 15.5 12.3 18.5

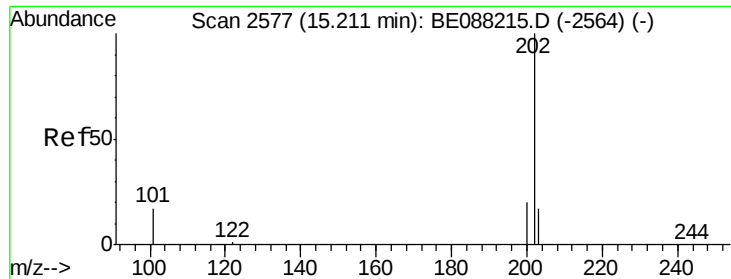


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 1.10 ng

RT: 15.21 min Scan# 2577

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

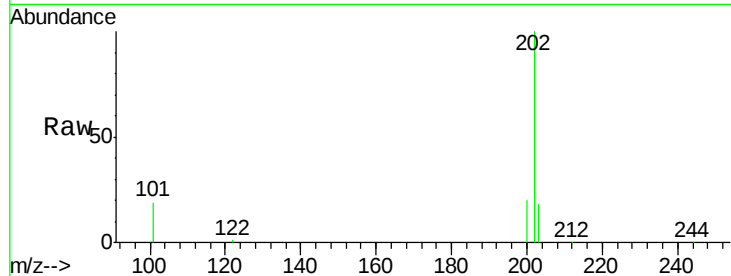
Tgt Ion:202 Resp: 21075

Ion Ratio Lower Upper

202 100

101 18.0 14.4 21.6

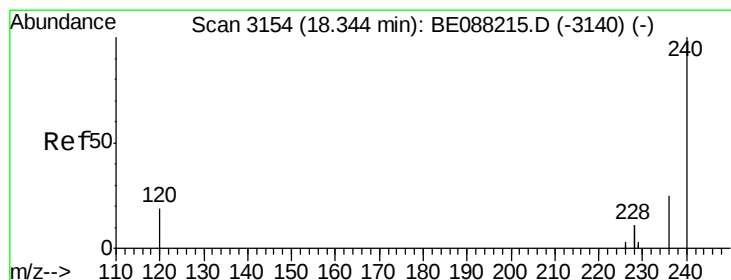
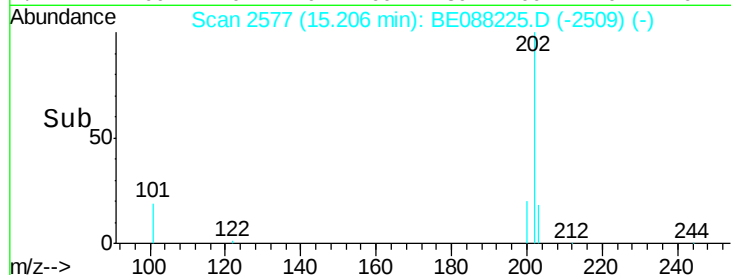
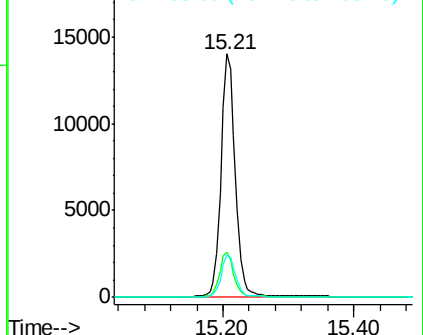
203 17.2 13.4 20.2



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: BE088225.D

Acq: 24 Oct 2014 22:17

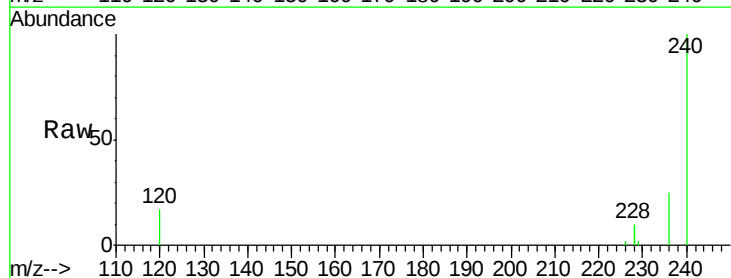
Tgt Ion:240 Resp: 79143

Ion Ratio Lower Upper

240 100

120 17.4 15.1 22.7

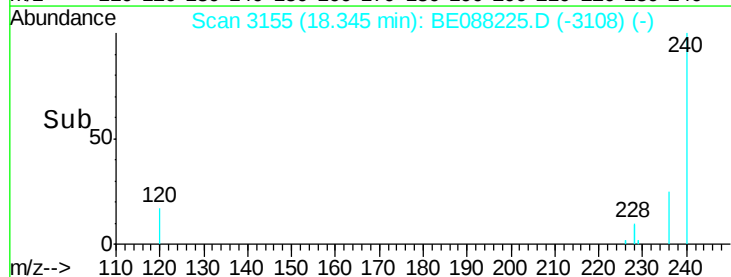
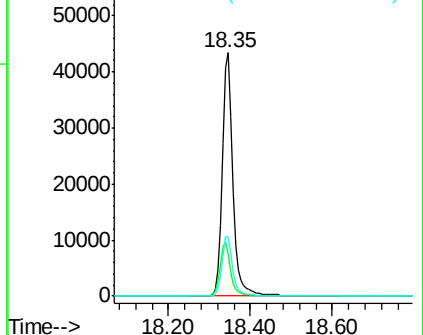
236 24.6 20.1 30.1

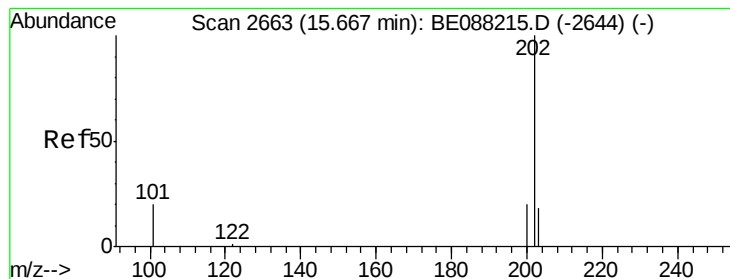


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 1.06 ng

RT: 15.66 min Scan# 2663

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

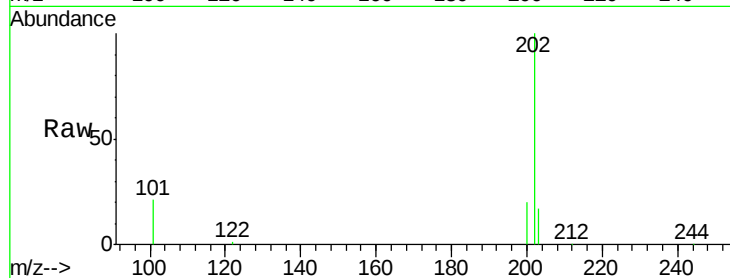
Tgt Ion: 202 Resp: 23020

Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.2

203 17.2 13.8 20.8

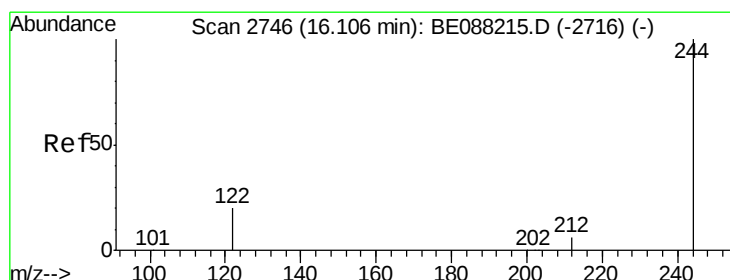
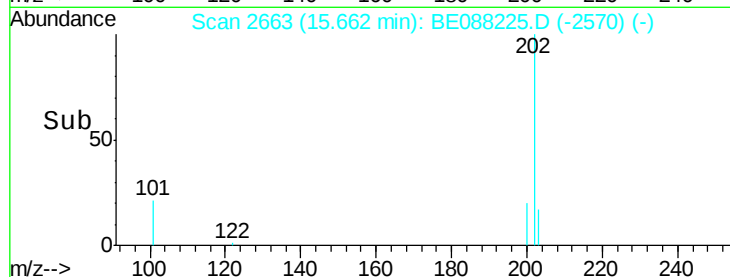
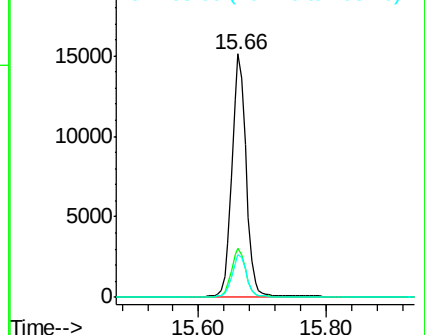


Abundance

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: 1.06 ng

RT: 16.11 min Scan# 2747

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

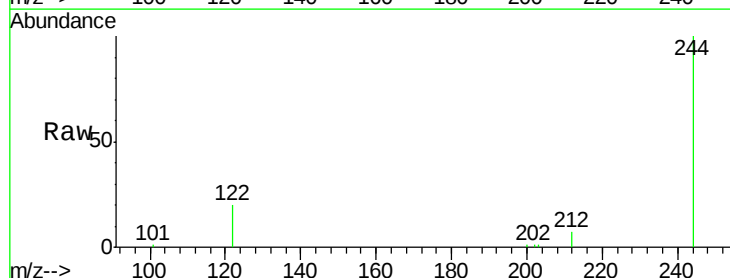
Tgt Ion: 244 Resp: 13706

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.2

122 19.8 16.7 25.1

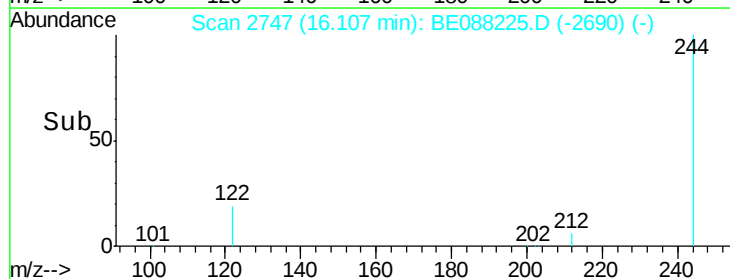
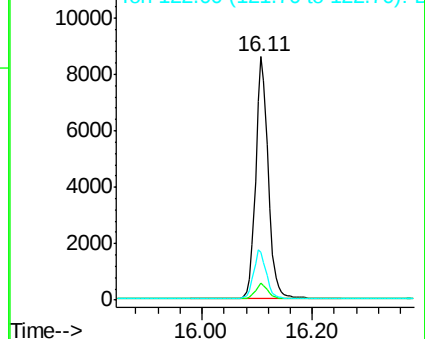


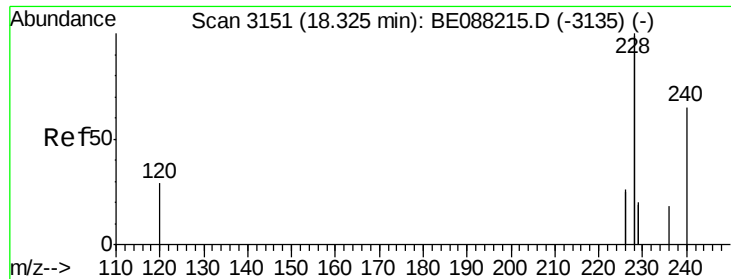
Abundance

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: 1.04 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

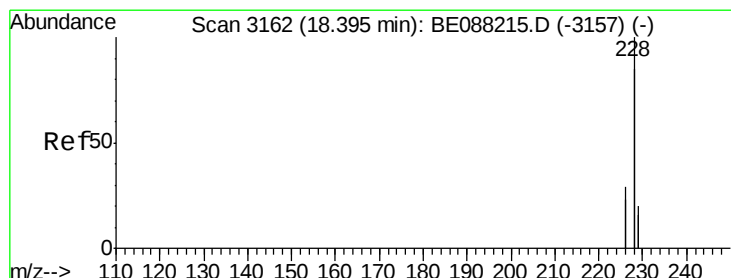
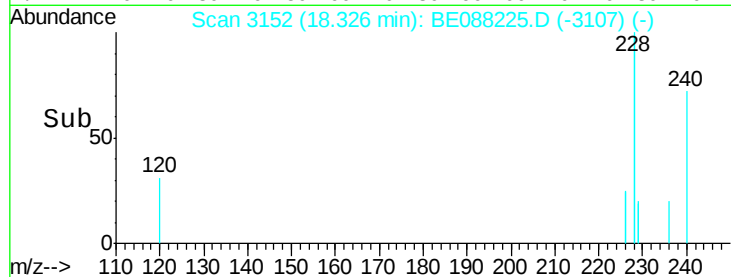
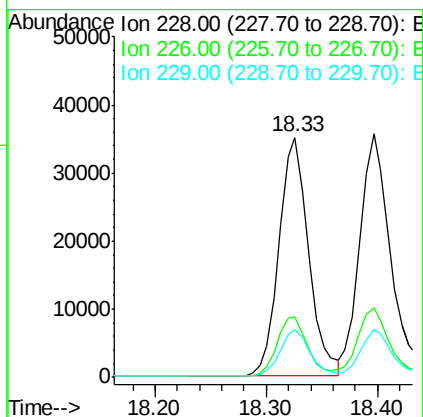
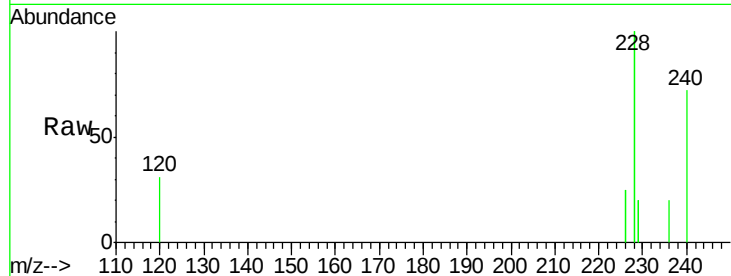
Tgt Ion:228 Resp: 64622

Ion Ratio Lower Upper

228 100

226 25.2 20.5 30.7

229 20.0 16.1 24.1



#20

Chrysene

Concen: 1.02 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

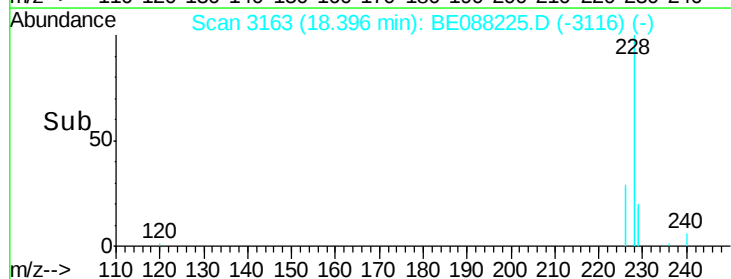
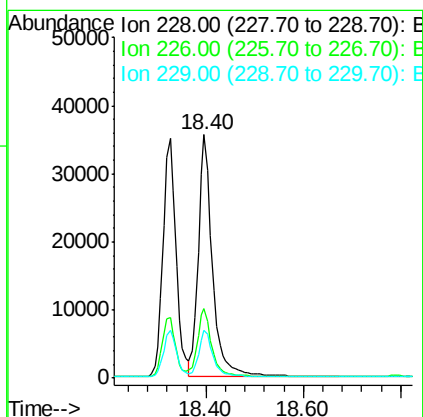
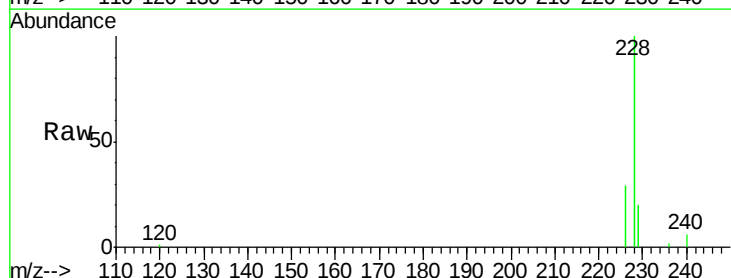
Tgt Ion:228 Resp: 72062

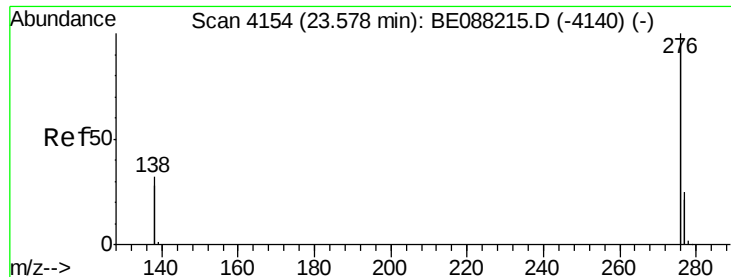
Ion Ratio Lower Upper

228 100

226 28.7 23.3 34.9

229 19.6 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.68 ng

RT: 23.57 min Scan# 4154

Delta R.T. -0.01 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

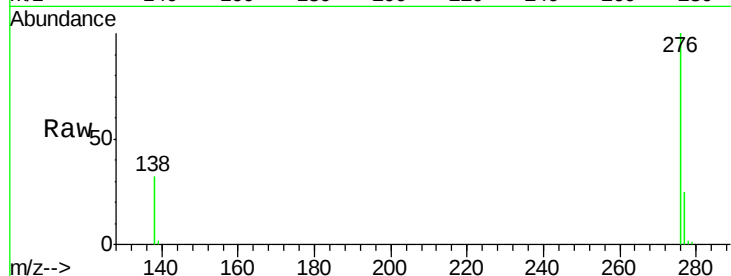
Tgt Ion: 276 Resp: 33706

Ion Ratio Lower Upper

276 100

138 29.0 13.9 20.9#

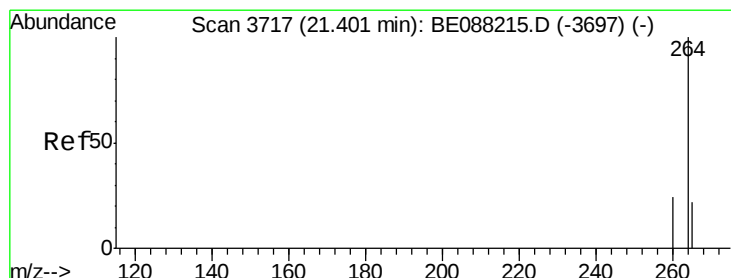
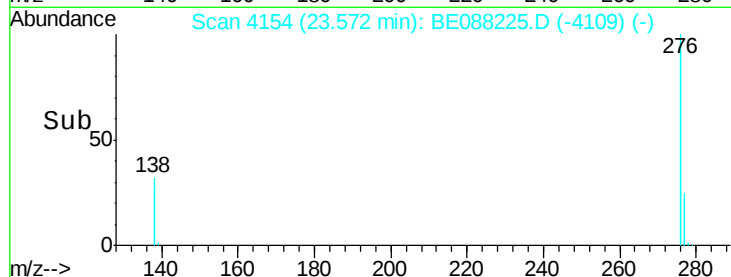
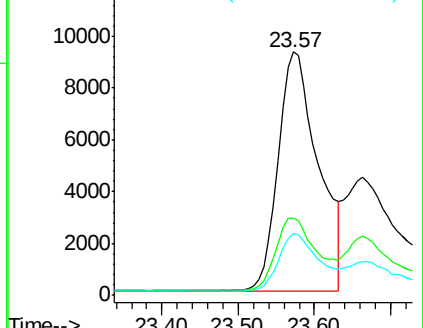
277 23.9 10.7 16.1#



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# 3717

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

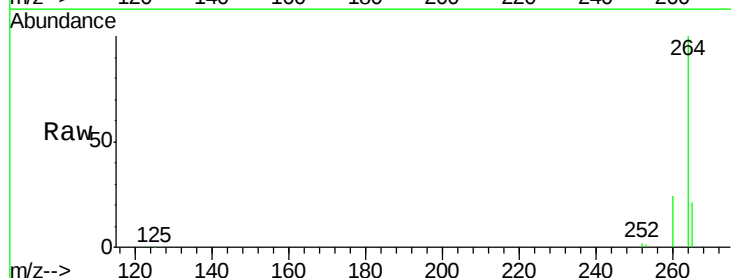
Tgt Ion: 264 Resp: 69298

Ion Ratio Lower Upper

264 100

260 24.0 19.0 28.4

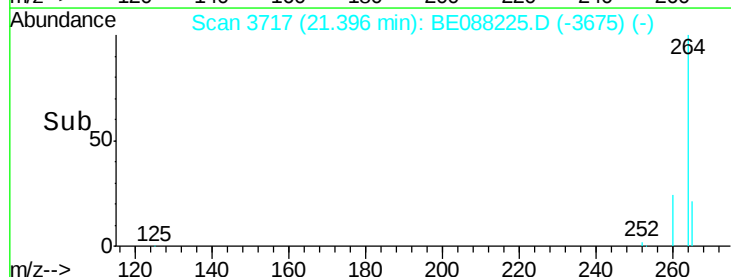
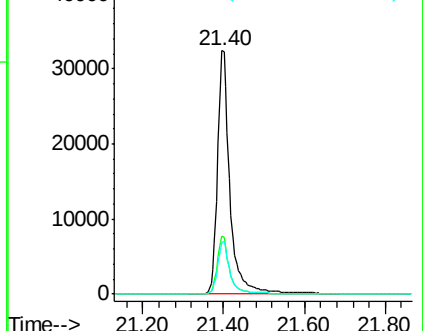
265 21.4 17.4 26.2

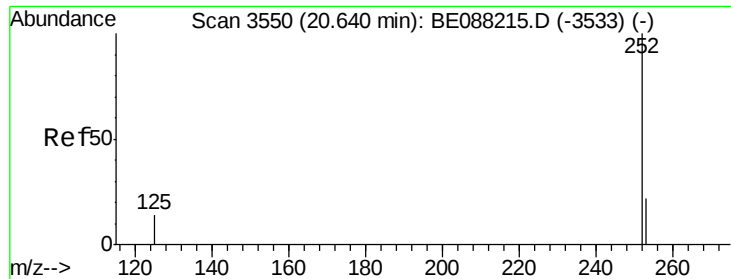


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.94 ng

RT: 20.64 min Scan# 3551

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

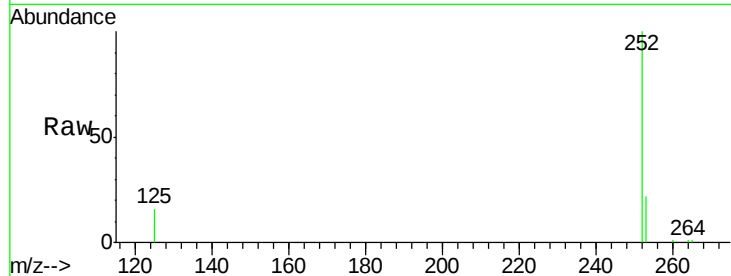
Tgt Ion:252 Resp: 11789

Ion Ratio Lower Upper

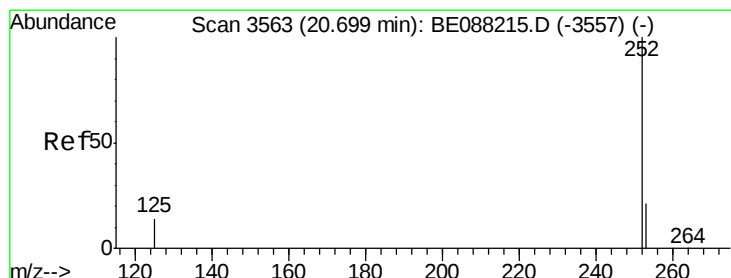
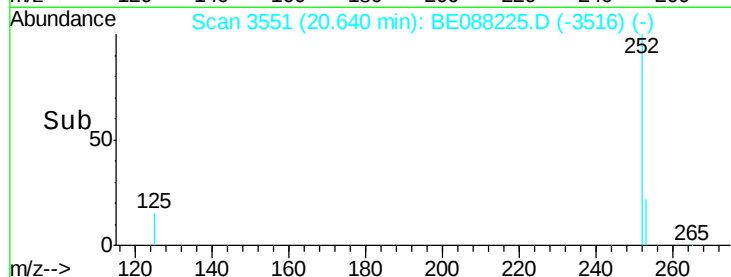
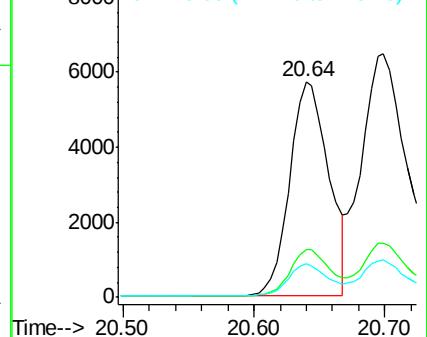
252 100

253 22.2 17.9 26.9

125 15.5 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: 1.05 ng

RT: 20.70 min Scan# 3564

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

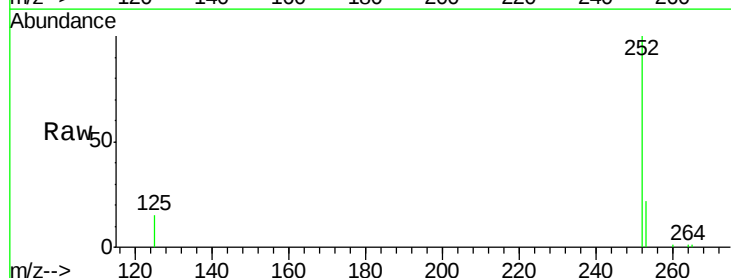
Tgt Ion:252 Resp: 18736

Ion Ratio Lower Upper

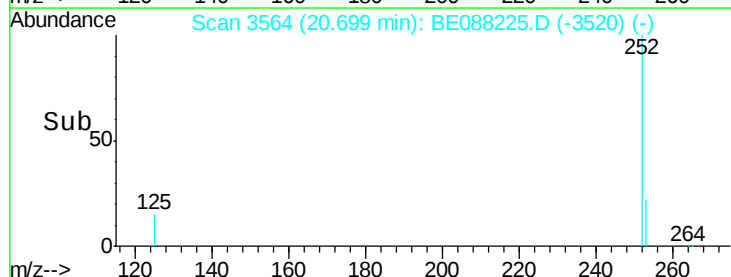
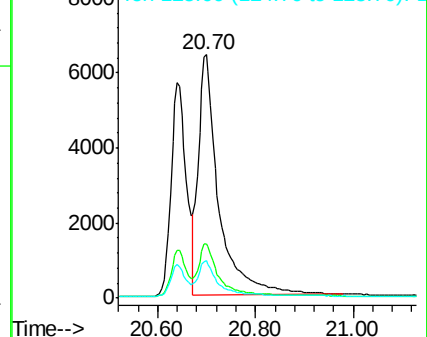
252 100

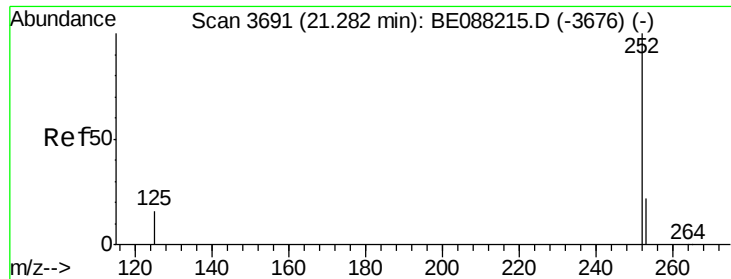
253 22.3 17.6 26.4

125 15.3 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: 0.97 ng

RT: 21.28 min Scan# 3692

Delta R.T. -0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

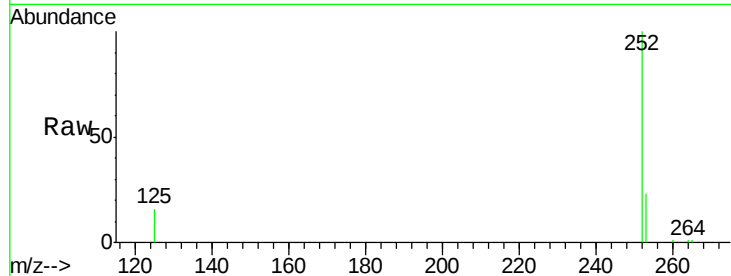
Tgt Ion:252 Resp: 11976

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

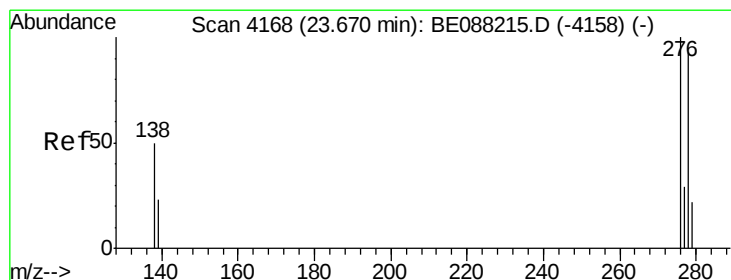
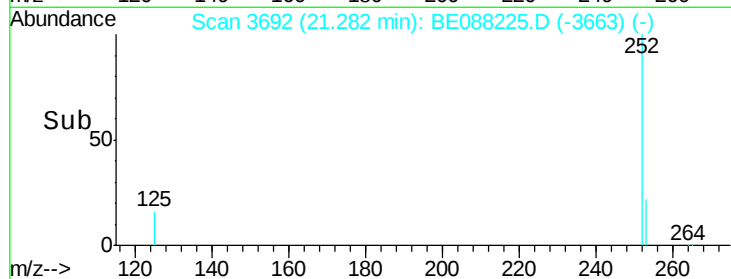
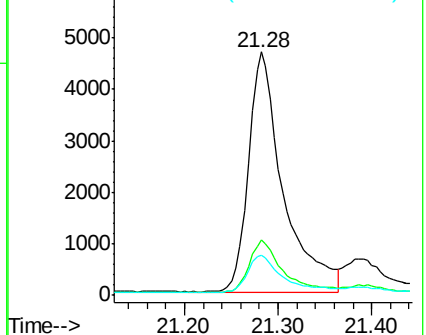
125 16.4 13.5 20.3



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: 0.95 ng

RT: 23.67 min Scan# 4169

Delta R.T. 0.00 min

Lab File: BE088225.D

Acq: 24 Oct 2014 22:17

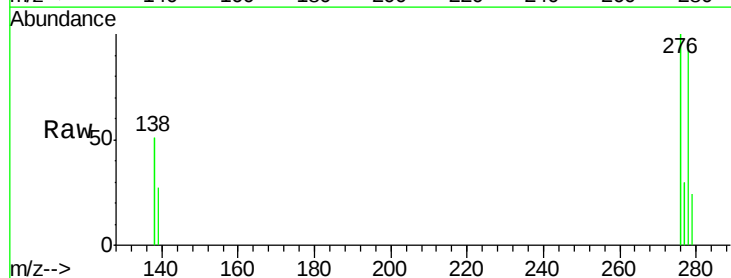
Tgt Ion:278 Resp: 10688

Ion Ratio Lower Upper

278 100

139 27.6 22.1 33.1

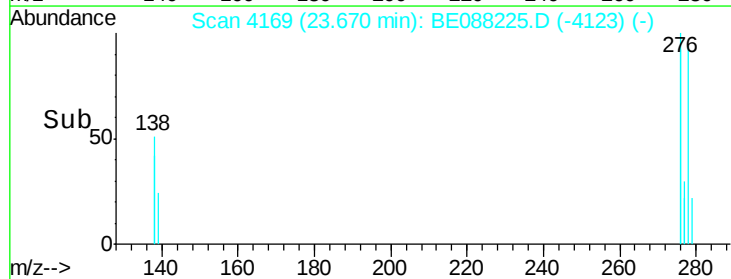
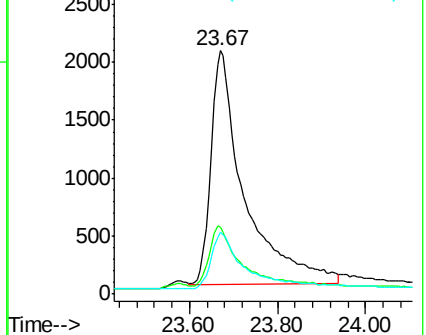
279 25.4 20.2 30.2

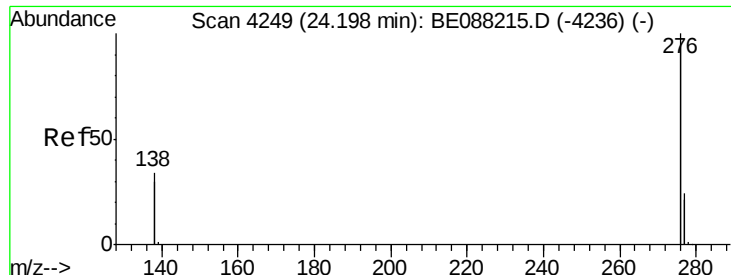


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.02 ng

RT: 24.20 min Scan# 4250

Delta R.T. 0.00 min

Lab File: BE088225.D

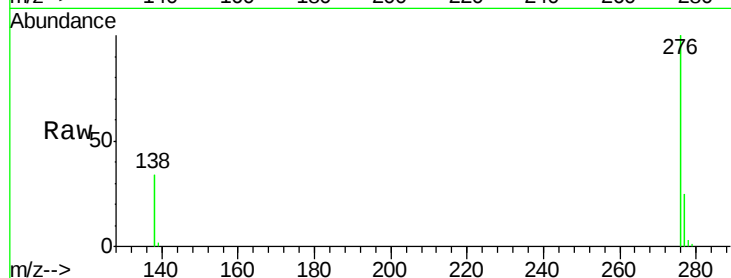
Acq: 24 Oct 2014 22:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



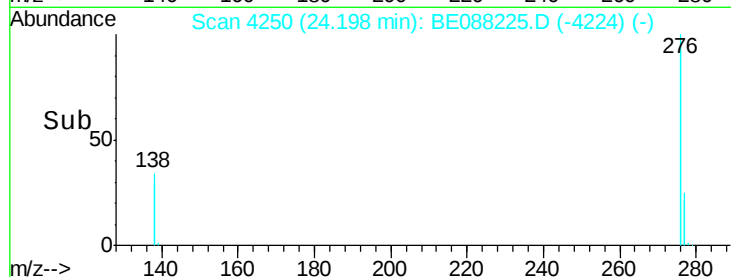
Tgt Ion: 276 Resp: 56634

Ion Ratio Lower Upper

276 100

277 24.9 19.4 29.2

138 34.0 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

