

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088241.D
 Acq On : 25 Oct 2014 10:04
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Oct 27 13:49:07 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	7.12	152	35963	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	151363	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	76453	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	143399	5.00	ng	0.00
16) Chrysene-d12	18.34	240	70043	5.00	ng	0.00
22) Perylene-d12	21.40	264	60832	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	70517	6.27	ng	0.00
8) 2-Fluorobiphenyl	10.02	172	155751	7.31	ng	0.00
18) Terphenyl-d14	16.12	244	117387	10.23	ng	0.00

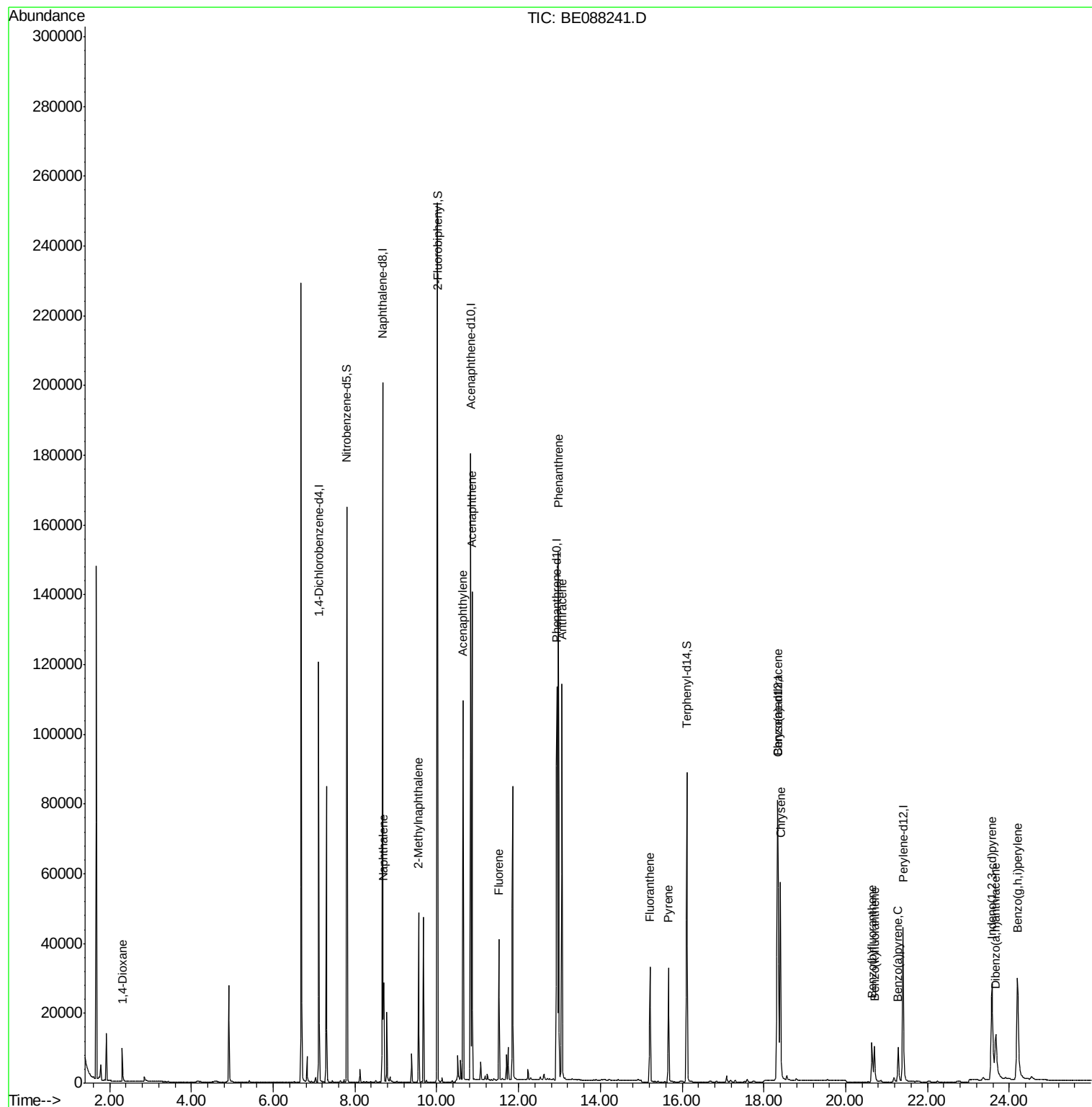
Target Compounds					Qvalue	
2) 1,4-Dioxane	2.31	88	5131	1.02	ng	98
5) Naphthalene	8.70	128	31512	1.02	ng	98
6) 2-Methylnaphthalene	9.55	142	19839	1.07	ng	97
9) Acenaphthylene	10.64	152	117193	1.03	ng	100
10) Acenaphthene	10.86	154	17435	0.96	ng	99
11) Fluorene	11.52	166	19178	1.04	ng	100
13) Phenanthrene	12.97	178	162566	1.18	ng	95
14) Anthracene	13.06	178	109449	1.07	ng	99
15) Fluoranthene	15.21	202	32161	1.53	ng	99
17) Pyrene	15.67	202	30562	1.59	ng	99
19) Benzo(a)anthracene	18.33	228	72432	1.31	ng	100
20) Chrysene	18.40	228	72443	1.16	ng	98
21) Indeno(1,2,3-cd)pyrene	23.58	276	54283	1.04	ng	# 72
23) Benzo(b)fluoranthene	20.64	252	16580	1.41	ng	99
24) Benzo(k)fluoranthene	20.70	252	16009	1.02	ng	100
25) Benzo(a)pyrene	21.28	252	14861	1.30	ng	99
26) Dibenzo(a,h)anthracene	23.67	278	12301	1.18	ng	100
27) Benzo(g,h,i)perylene	24.20	276	63288	1.30	ng	100

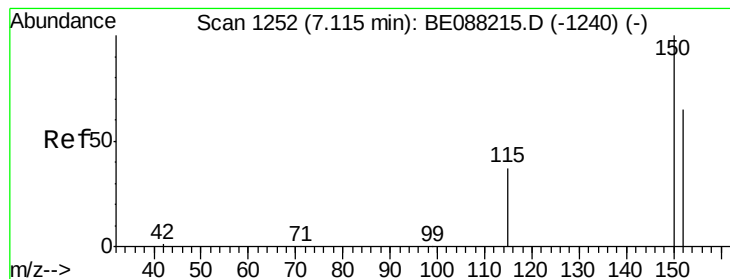
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.12 min Scan# 1253

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

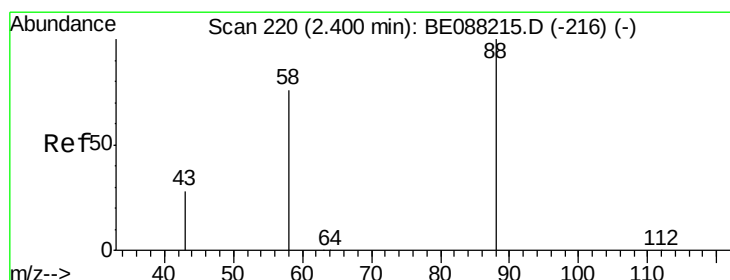
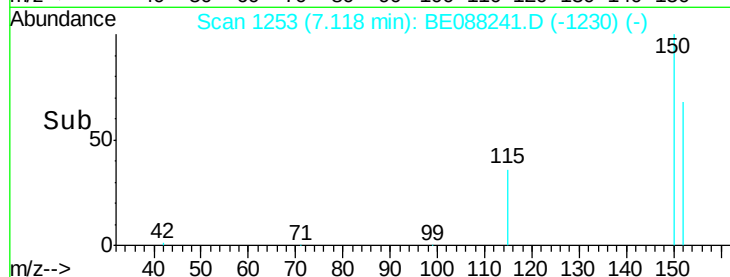
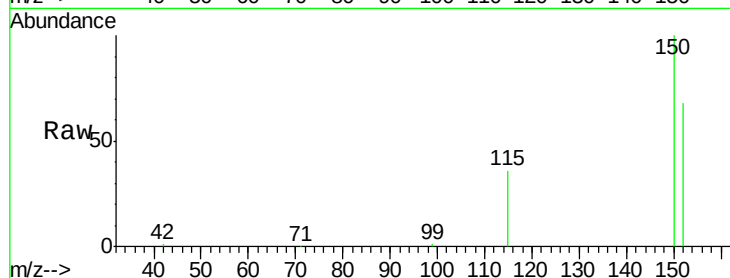
Tgt Ion:152 Resp: 35963

Ion Ratio Lower Upper

152 100

150 147.1 123.2 184.8

115 52.5 45.3 67.9



#2

1,4-Dioxane

Concen: 1.02 ng

RT: 2.31 min Scan# 200

Delta R.T. -0.09 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

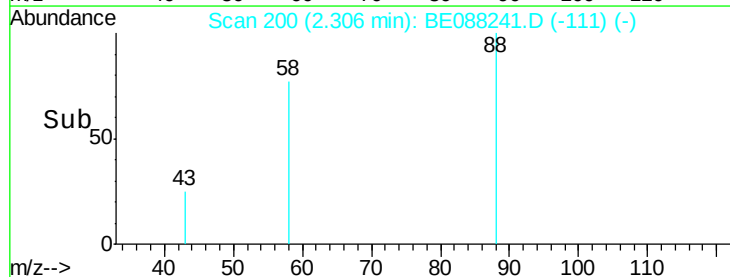
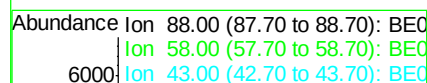
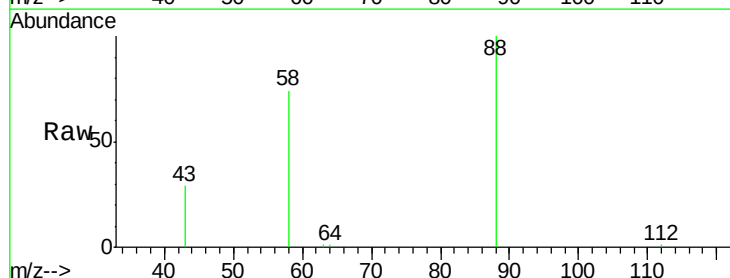
Tgt Ion: 88 Resp: 5131

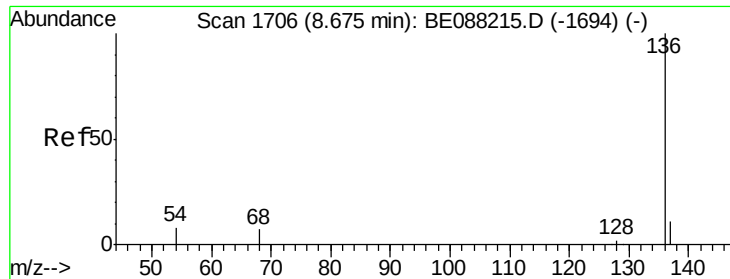
Ion Ratio Lower Upper

88 100

58 75.5 59.0 88.4

43 28.4 21.9 32.9





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.67 min Scan# 1706

Delta R.T. -0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

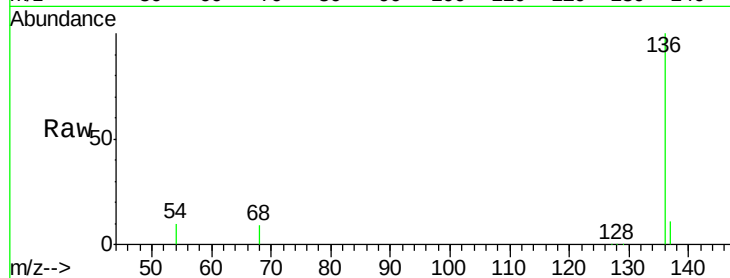
Tgt Ion: 136 Resp: 151363

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

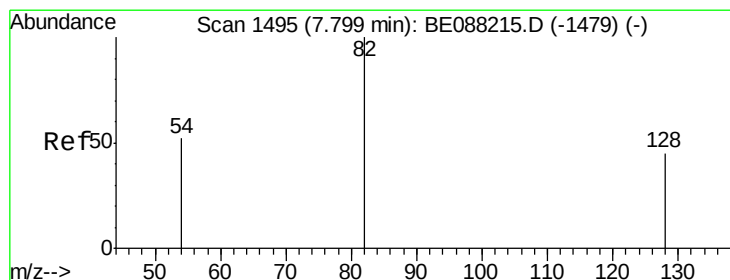
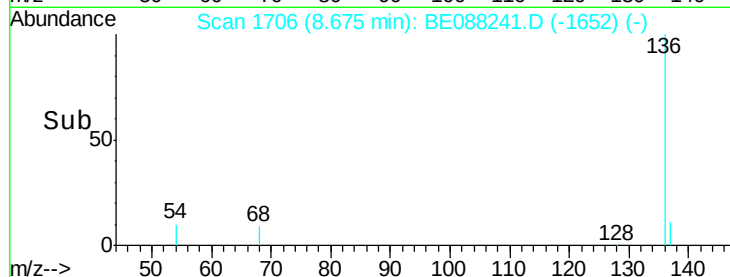
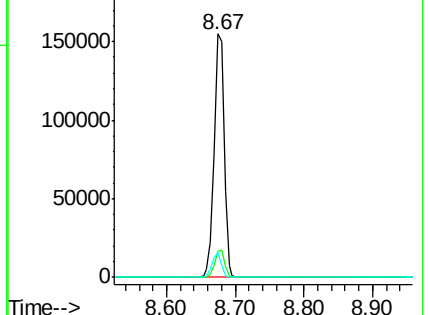
54 10.0 6.1 9.1#



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: 6.27 ng

RT: 7.80 min Scan# 1496

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

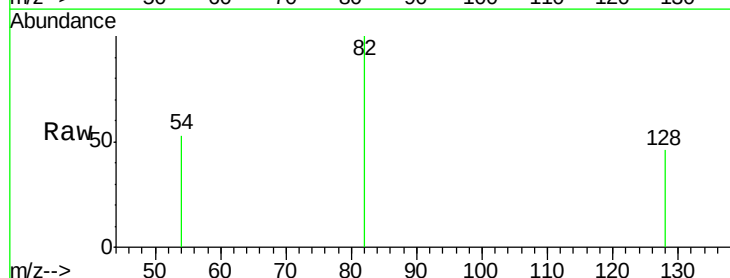
Tgt Ion: 82 Resp: 70517

Ion Ratio Lower Upper

82 100

128 46.2 36.2 54.2

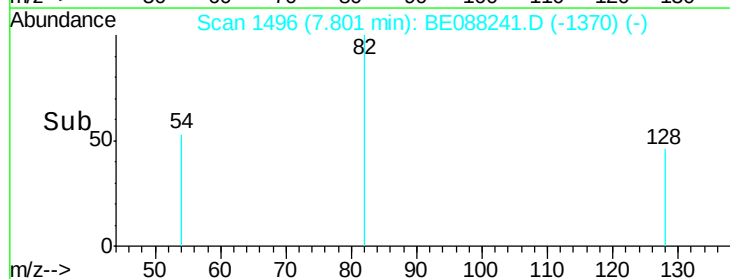
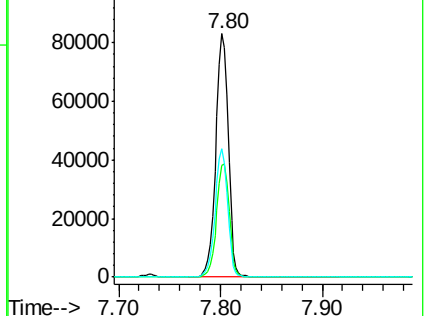
54 52.6 41.8 62.8

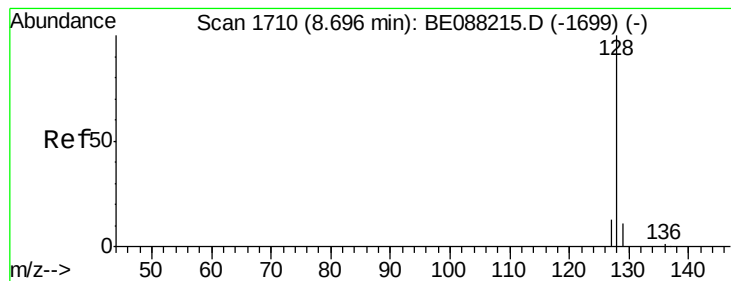


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 1.02 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

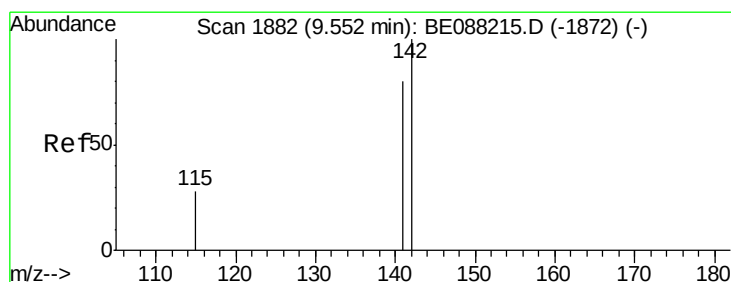
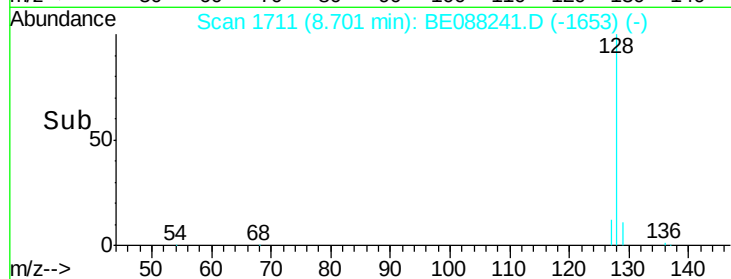
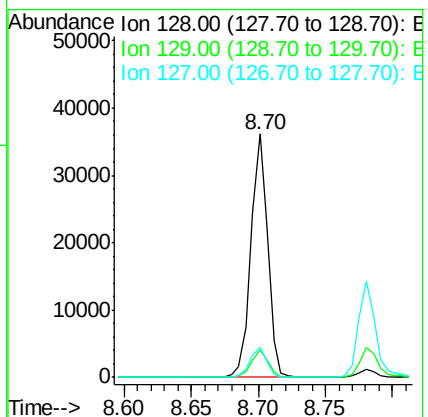
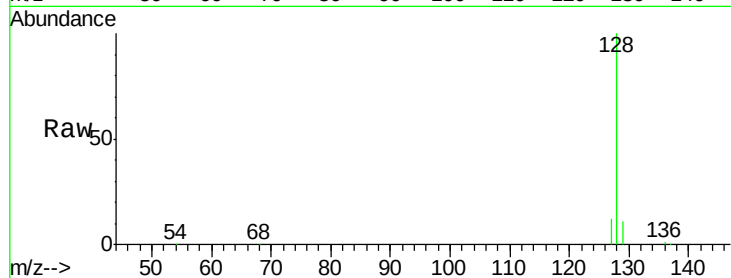
Tgt Ion:128 Resp: 31512

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

127 12.1 10.4 15.6



#6

2-Methylnaphthalene

Concen: 1.07 ng

RT: 9.55 min Scan# 1882

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

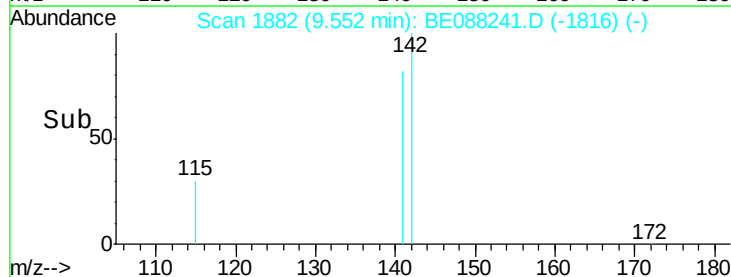
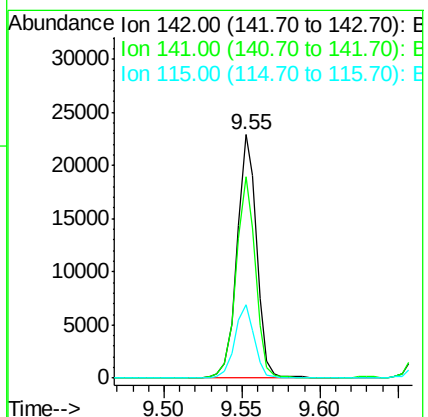
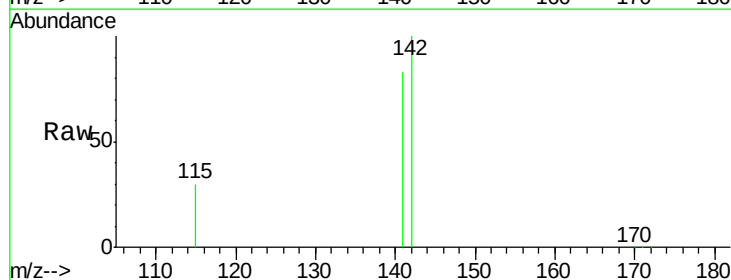
Tgt Ion:142 Resp: 19839

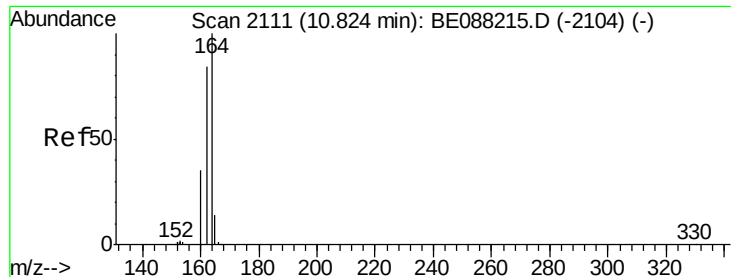
Ion Ratio Lower Upper

142 100

141 82.5 63.7 95.5

115 30.4 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.83 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

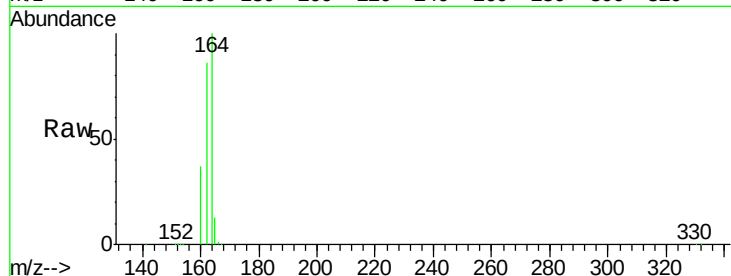
Tgt Ion:164 Resp: 76453

Ion Ratio Lower Upper

164 100

162 85.9 67.4 101.0

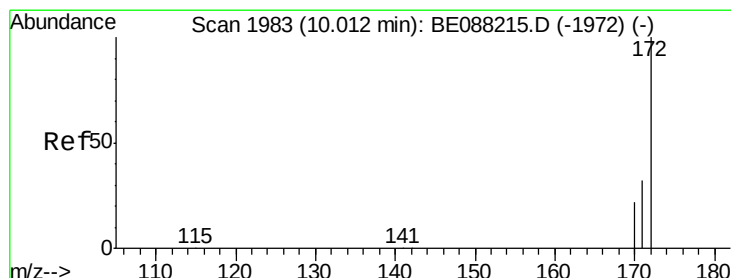
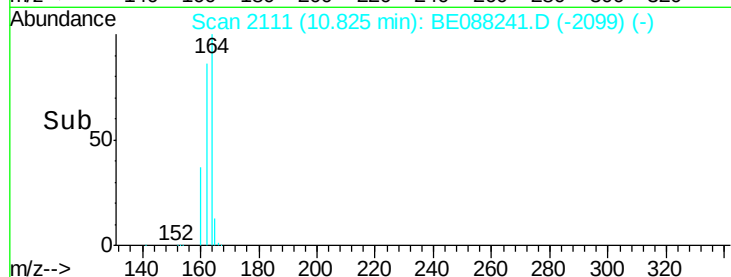
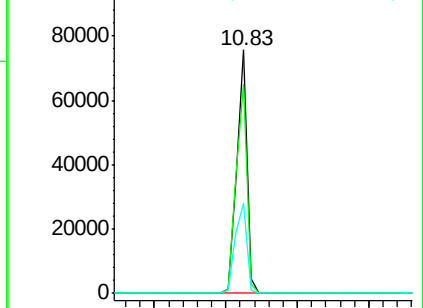
160 36.8 27.7 41.5



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: 7.31 ng

RT: 10.02 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

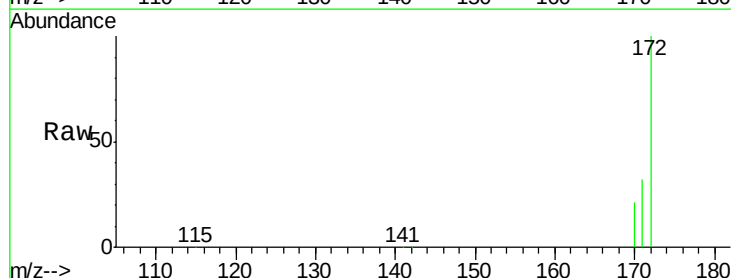
Tgt Ion:172 Resp: 155751

Ion Ratio Lower Upper

172 100

171 31.7 25.8 38.6

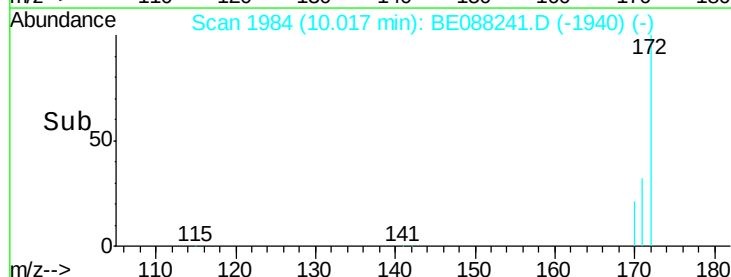
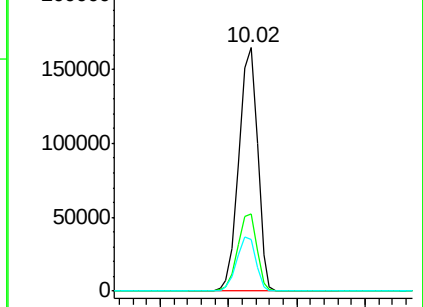
170 21.0 17.4 26.0

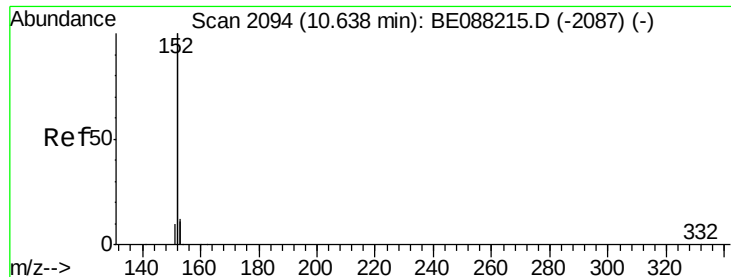


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.03 ng

RT: 10.64 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

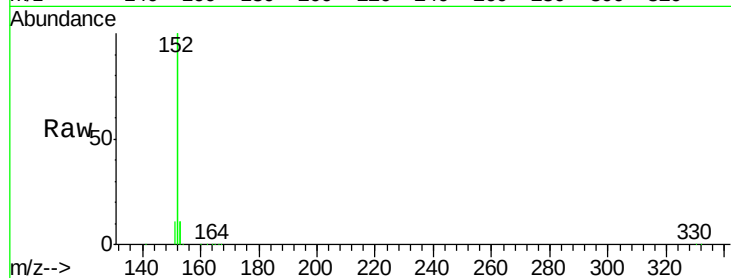
Tgt Ion:152 Resp: 117193

Ion Ratio Lower Upper

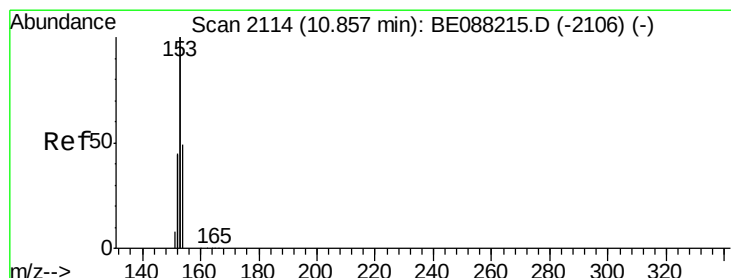
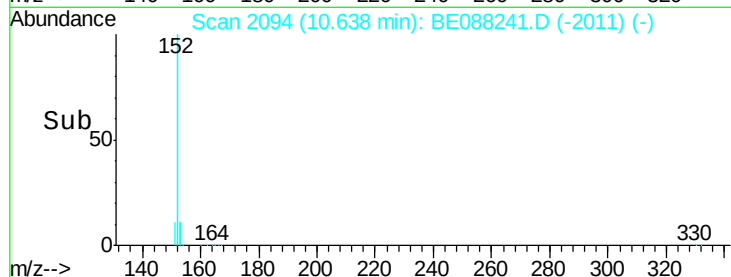
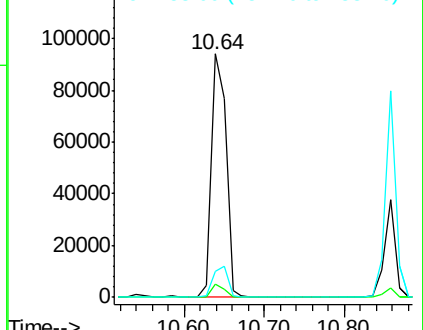
152 100

151 4.6 3.7 5.5

153 12.8 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: 0.96 ng

RT: 10.86 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

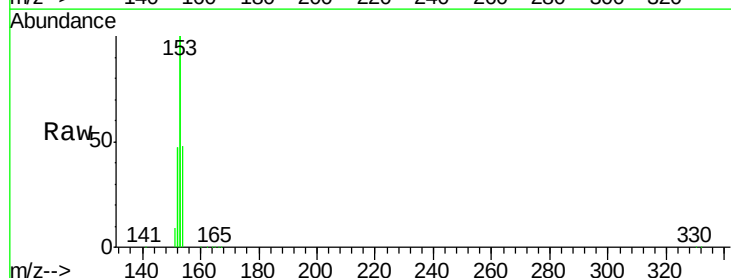
Tgt Ion:154 Resp: 17435

Ion Ratio Lower Upper

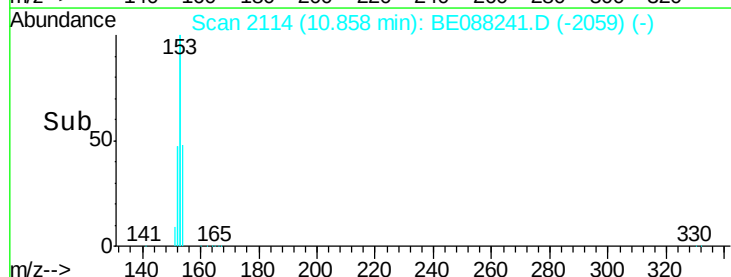
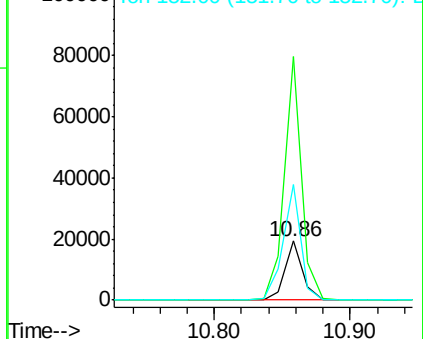
154 100

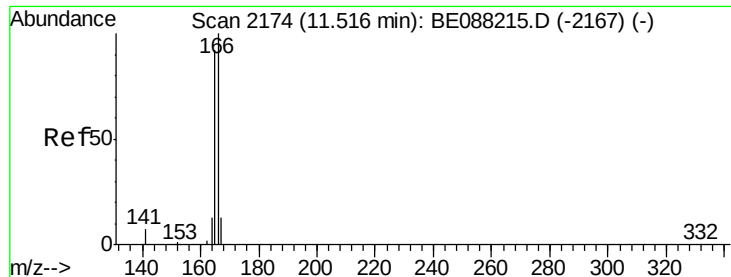
153 403.4 326.0 489.0

152 195.9 155.6 233.4



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

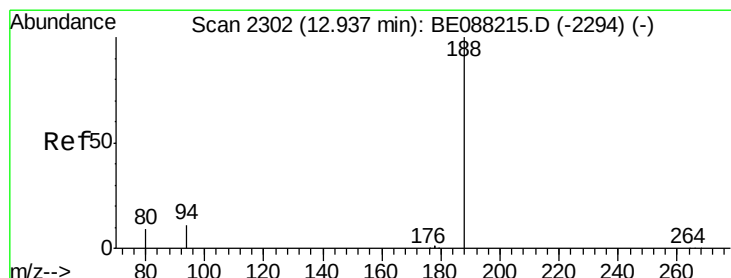
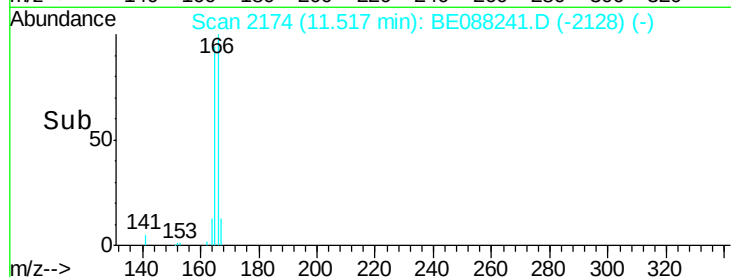
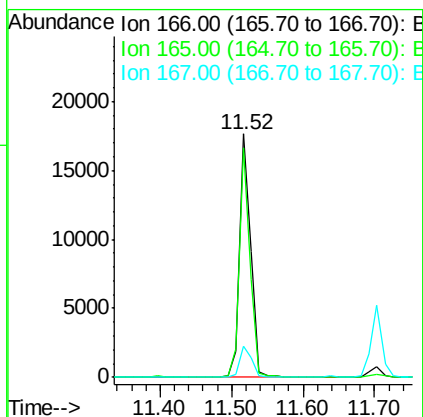
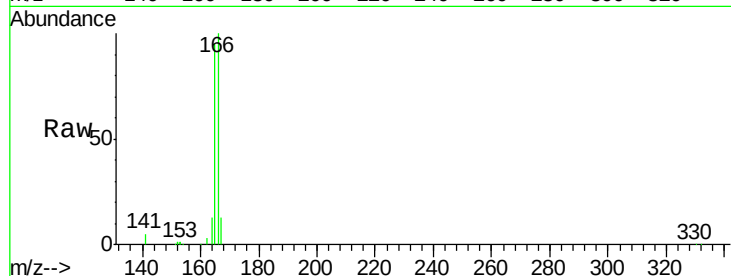




#11
 Fluorene
 Concen: 1.04 ng
 RT: 11.52 min Scan# 2174
 Delta R.T. 0.00 min
 Lab File: BE088241.D
 Acq: 25 Oct 2014 10:04

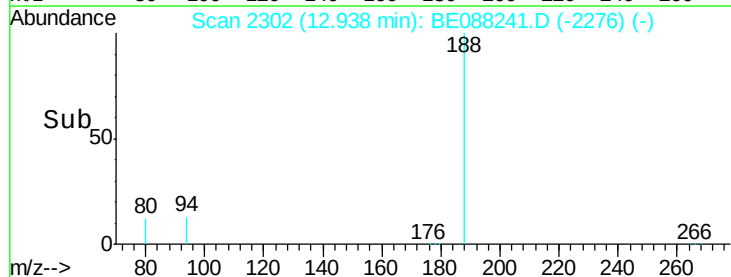
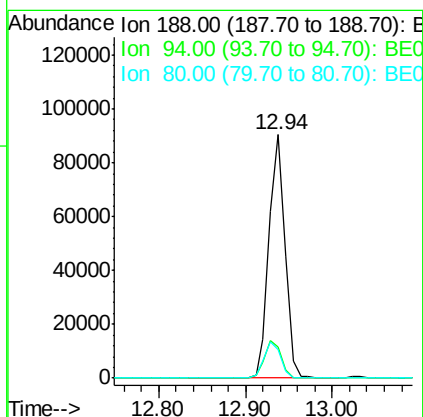
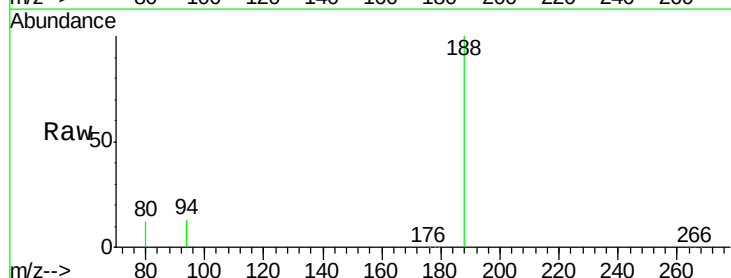
Instrument :
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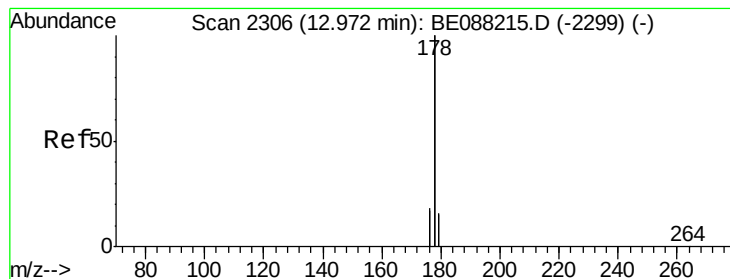
Tgt Ion:166 Resp: 19178
 Ion Ratio Lower Upper
 166 100
 165 90.2 71.8 107.6
 167 13.6 10.7 16.1



#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.94 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BE088241.D
 Acq: 25 Oct 2014 10:04

Tgt Ion:188 Resp: 143399
 Ion Ratio Lower Upper
 188 100
 94 12.7 8.5 12.7#
 80 11.7 7.4 11.0#





#13

Phenanthrene

Concen: 1.18 ng

RT: 12.97 min Scan# 2306

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

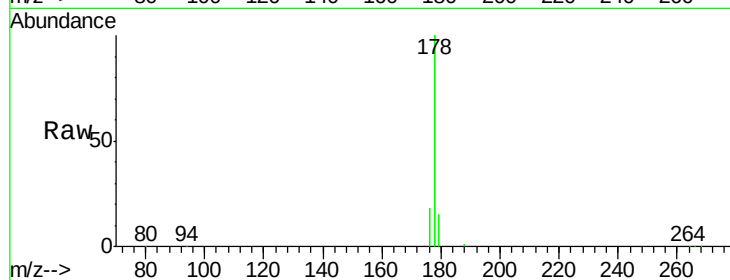
Tgt Ion:178 Resp: 162566

Ion Ratio Lower Upper

178 100

176 19.5 14.0 21.0

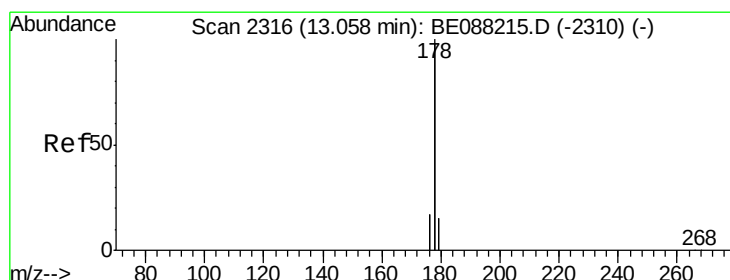
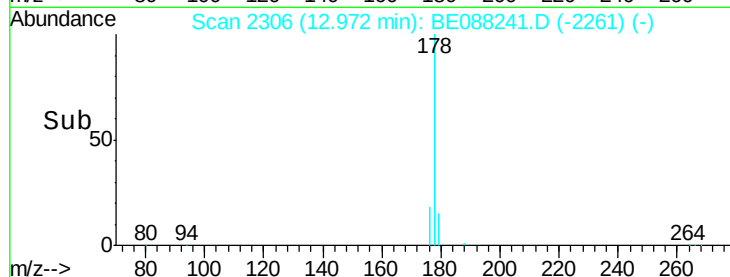
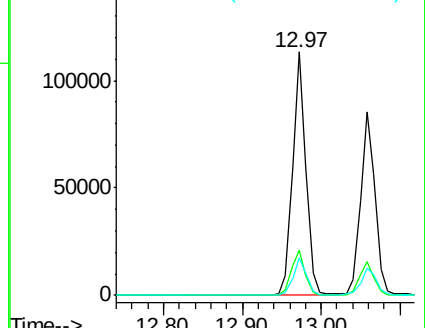
179 16.6 11.8 17.6



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: 1.07 ng

RT: 13.06 min Scan# 2316

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

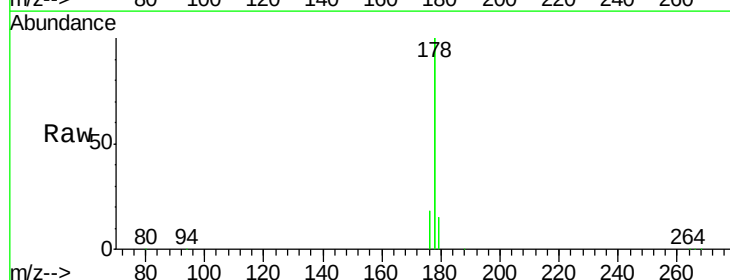
Tgt Ion:178 Resp: 109449

Ion Ratio Lower Upper

178 100

176 18.0 14.7 22.1

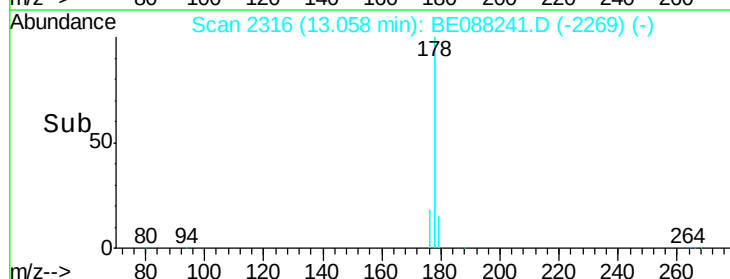
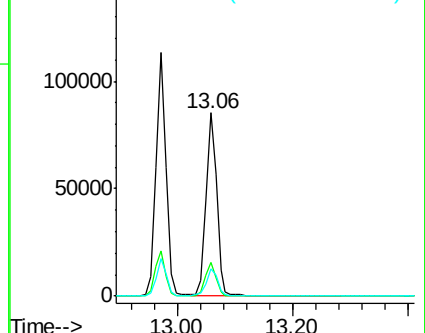
179 15.2 12.3 18.5

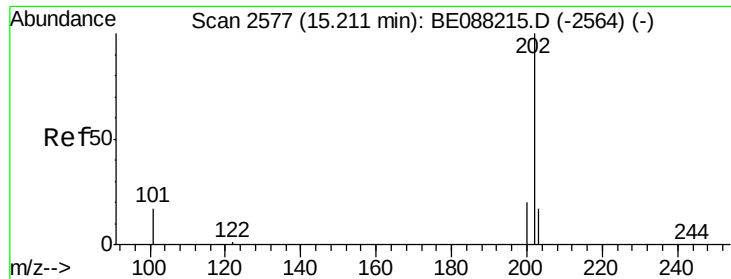


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

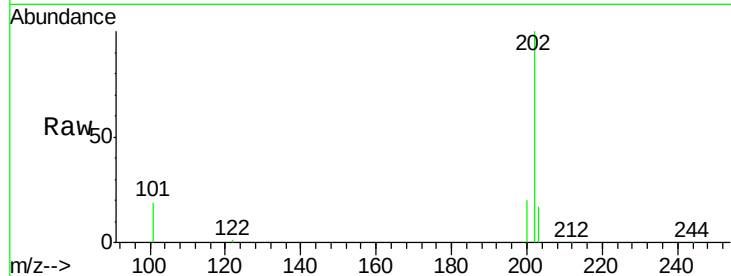




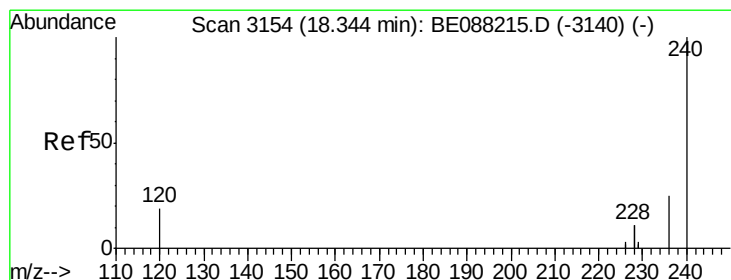
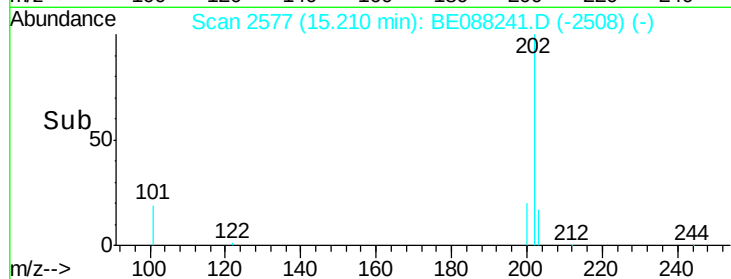
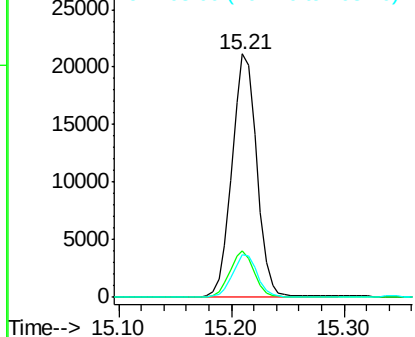
#15
 Fluoranthene
 Concen: 1.53 ng
 RT: 15.21 min Scan# 2577
 Delta R.T. -0.00 min
 Lab File: BE088241.D
 Acq: 25 Oct 2014 10:04

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion: 202 Resp: 32161
 Ion Ratio Lower Upper
 202 100
 101 18.4 14.4 21.6
 203 17.3 13.4 20.2

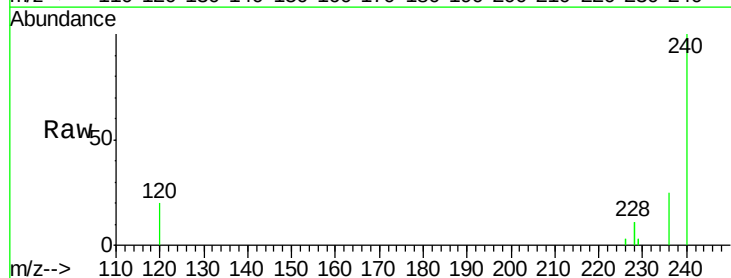


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

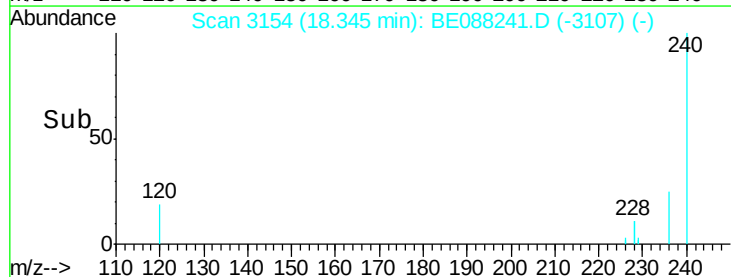
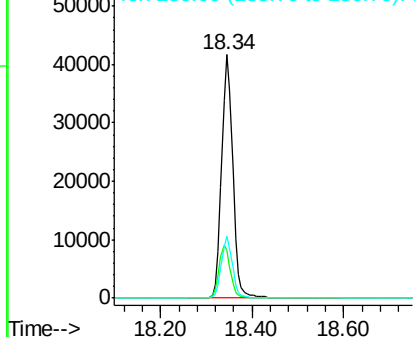


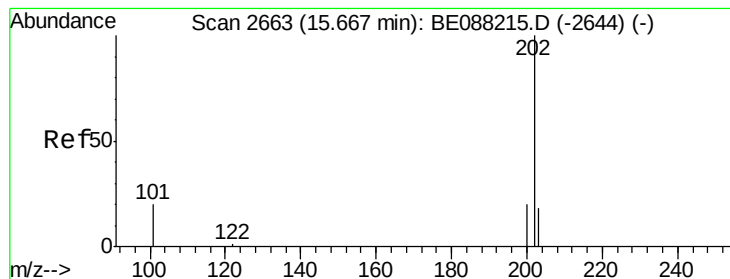
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.34 min Scan# 3154
 Delta R.T. 0.00 min
 Lab File: BE088241.D
 Acq: 25 Oct 2014 10:04

Tgt Ion: 240 Resp: 70043
 Ion Ratio Lower Upper
 240 100
 120 19.6 15.1 22.7
 236 25.3 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: 1.59 ng

RT: 15.67 min Scan# 2663

Delta R.T. -0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

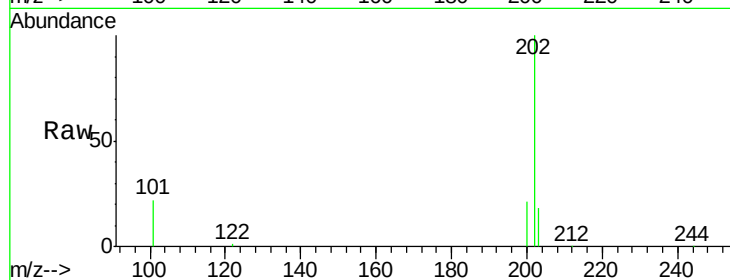
Tgt Ion:202 Resp: 30562

Ion Ratio Lower Upper

202 100

200 20.2 16.2 24.2

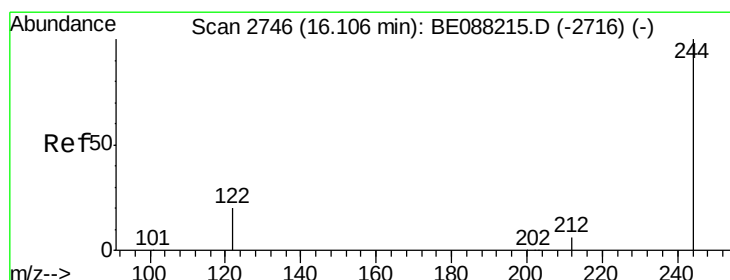
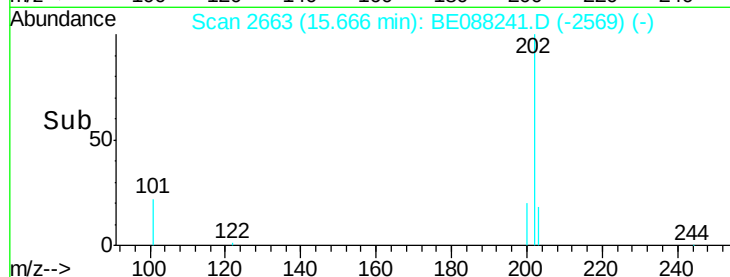
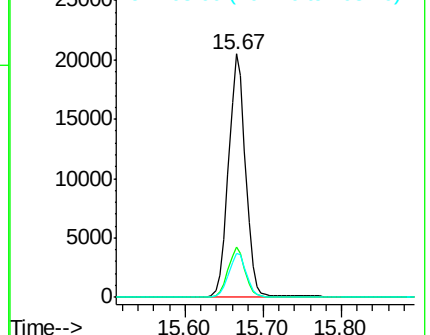
203 18.3 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 10.23 ng

RT: 16.12 min Scan# 2748

Delta R.T. 0.01 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

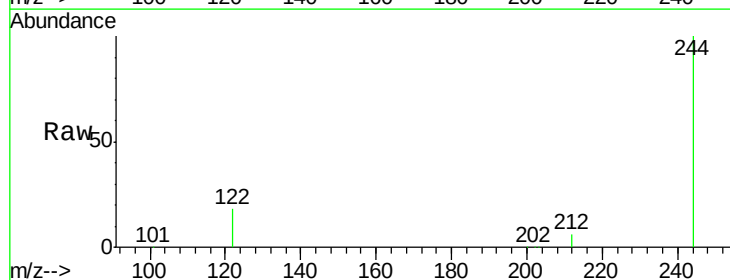
Tgt Ion:244 Resp: 117387

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.2

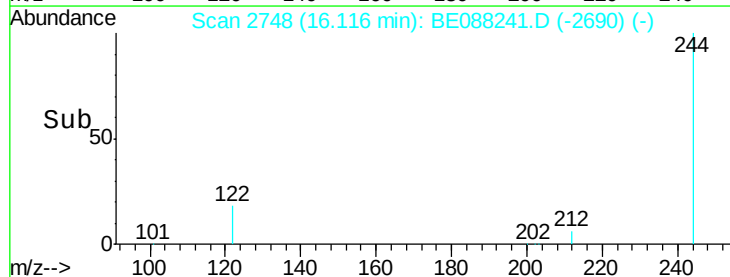
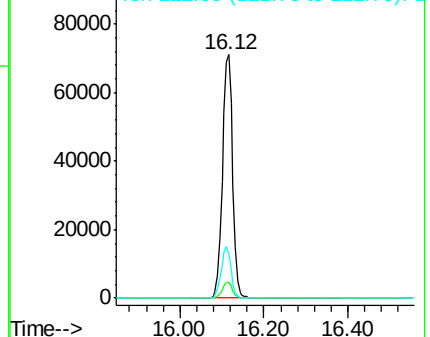
122 18.1 16.7 25.1

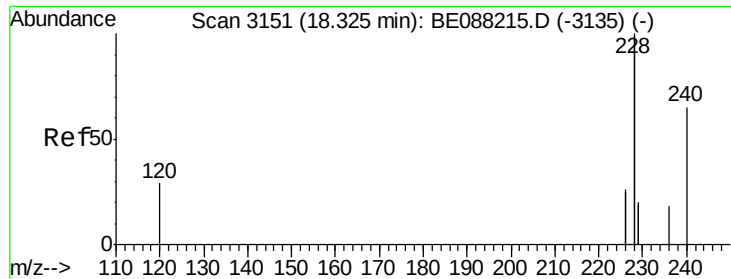


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 1.31 ng

RT: 18.33 min Scan# 3151

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

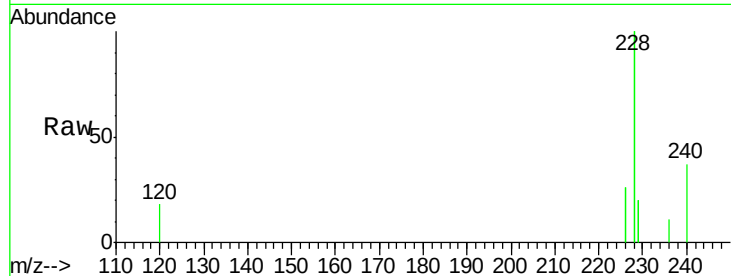
Tgt Ion:228 Resp: 72432

Ion Ratio Lower Upper

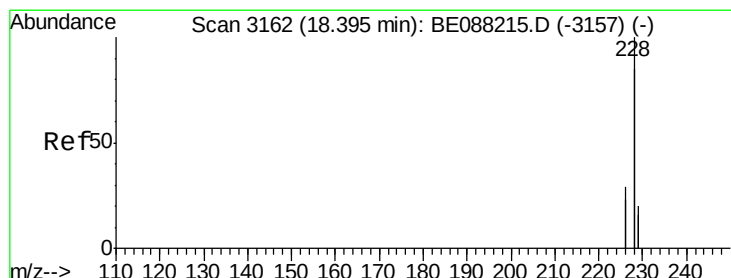
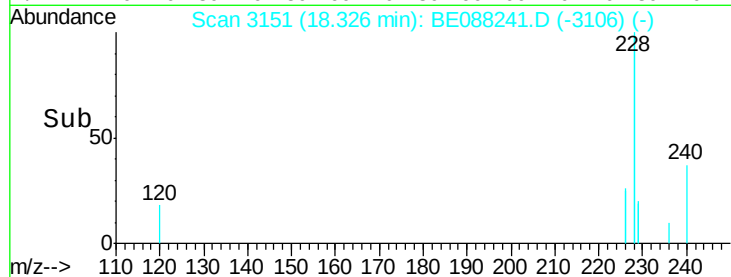
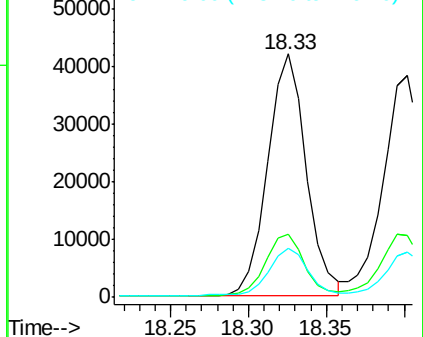
228 100

226 25.8 20.5 30.7

229 20.0 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: 1.16 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.01 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

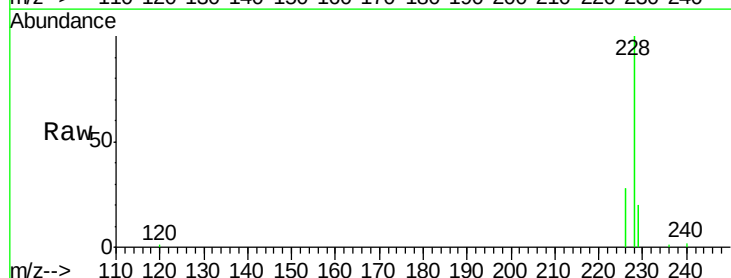
Tgt Ion:228 Resp: 72443

Ion Ratio Lower Upper

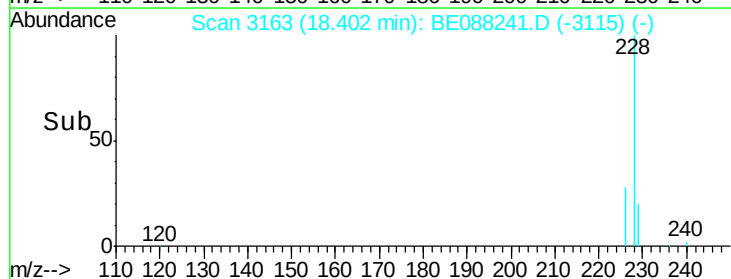
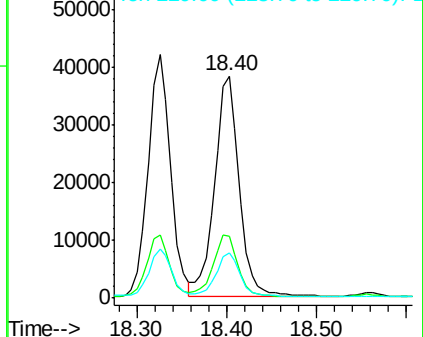
228 100

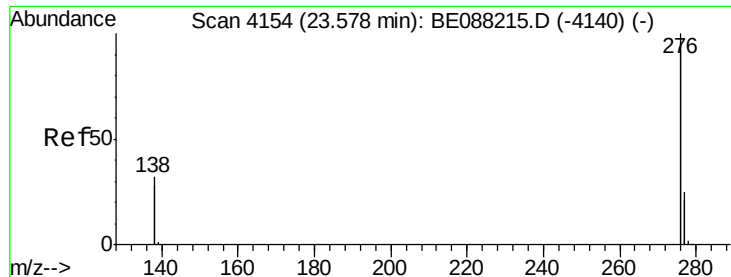
226 27.9 23.3 34.9

229 20.4 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: 1.04 ng

RT: 23.58 min Scan# 4154

Delta R.T. -0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

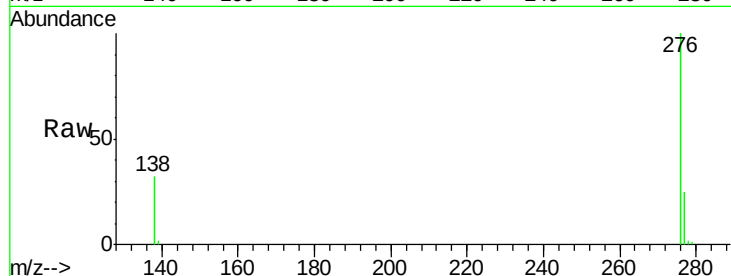
Tgt Ion:276 Resp: 54283

Ion Ratio Lower Upper

276 100

138 30.9 13.9 20.9#

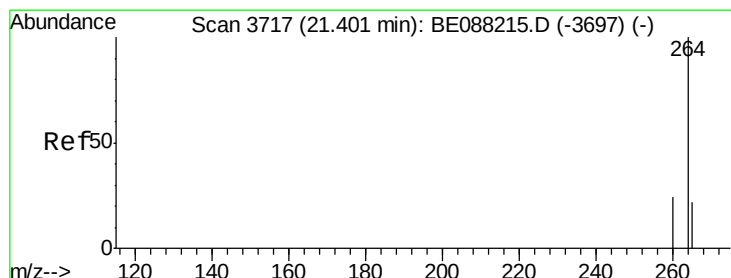
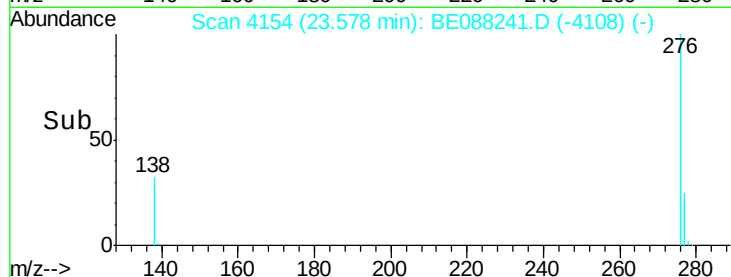
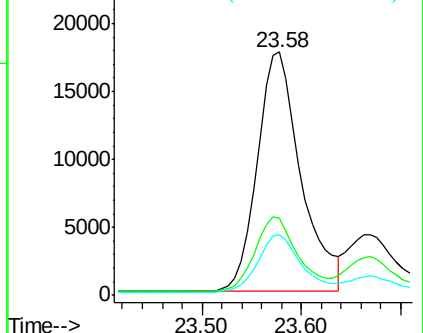
277 23.4 10.7 16.1#



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: BE088241.D

Acq: 25 Oct 2014 10:04

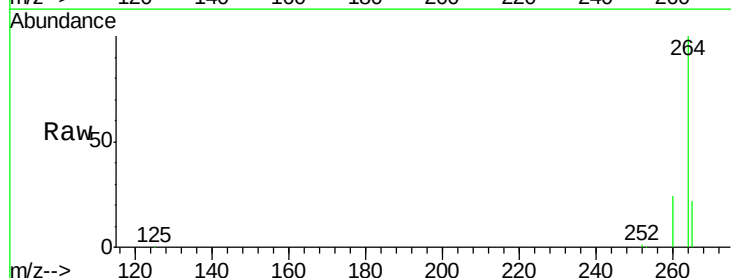
Tgt Ion:264 Resp: 60832

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

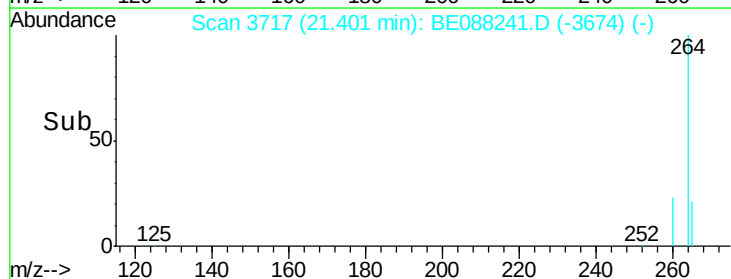
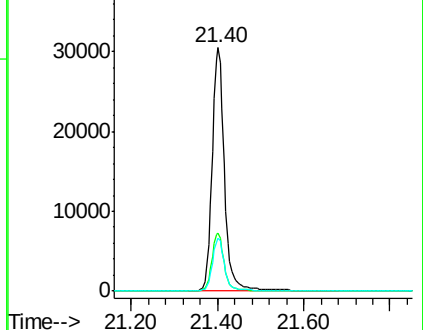
265 21.6 17.4 26.2

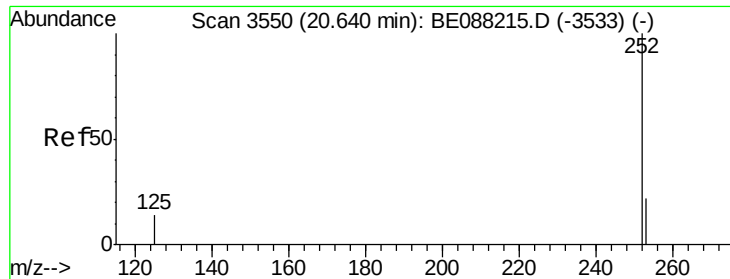


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 1.41 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

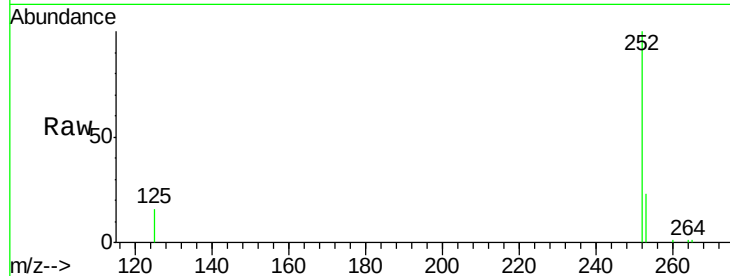
Tgt Ion:252 Resp: 16580

Ion Ratio Lower Upper

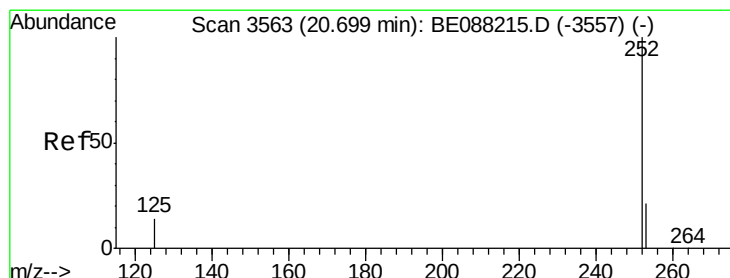
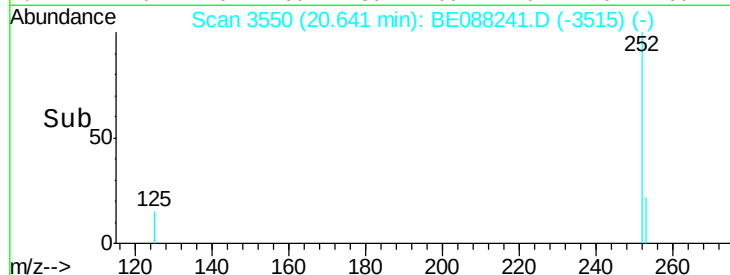
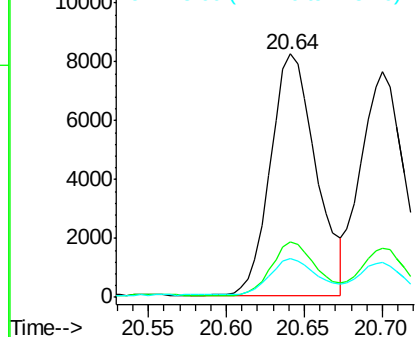
252 100

253 22.7 17.9 26.9

125 16.0 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: 1.02 ng

RT: 20.70 min Scan# 3563

Delta R.T. 0.00 min

Lab File: BE088241.D

Acq: 25 Oct 2014 10:04

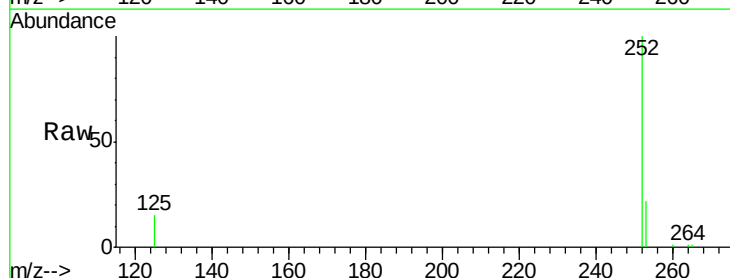
Tgt Ion:252 Resp: 16009

Ion Ratio Lower Upper

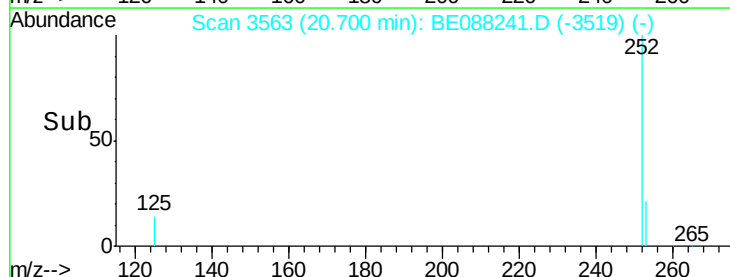
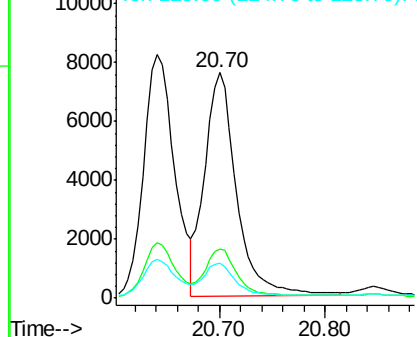
252 100

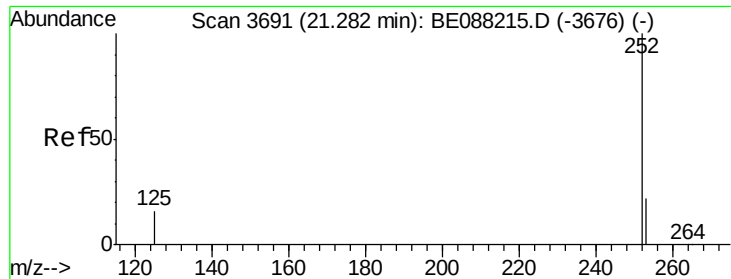
253 21.9 17.6 26.4

125 15.2 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

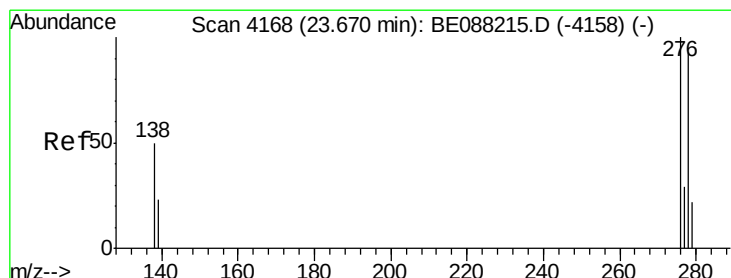
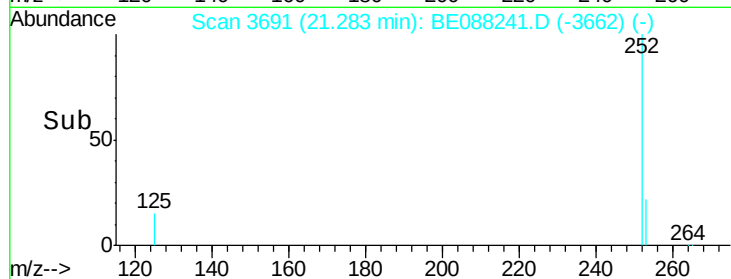
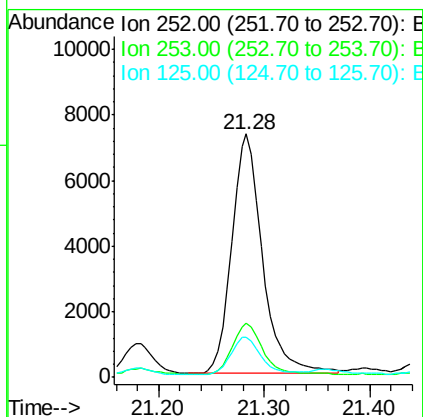
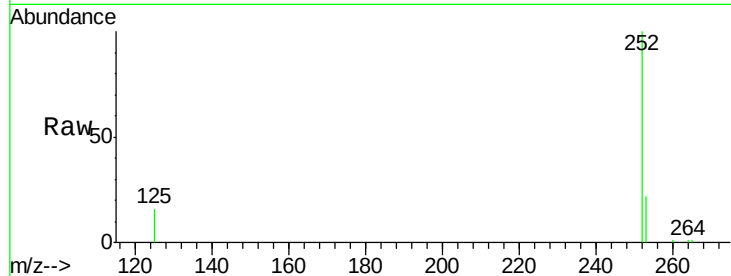




#25
Benzo(a)pyrene
Concen: 1.30 ng
RT: 21.28 min Scan# 3691
Delta R.T. 0.00 min
Lab File: BE088241.D
Acq: 25 Oct 2014 10:04

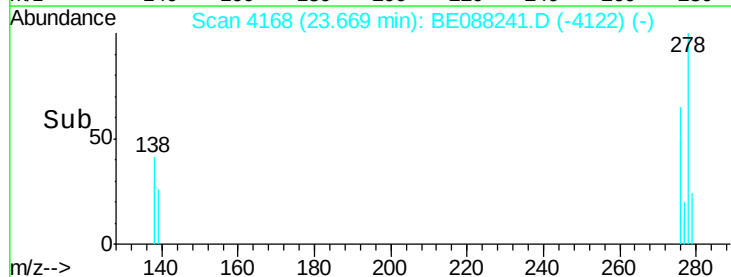
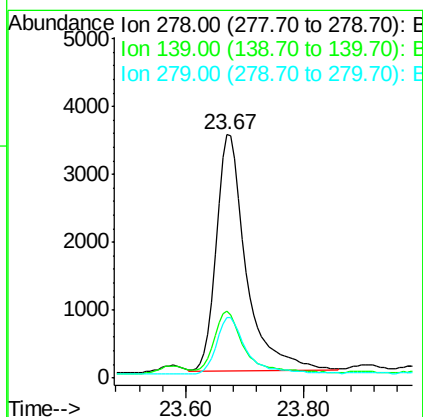
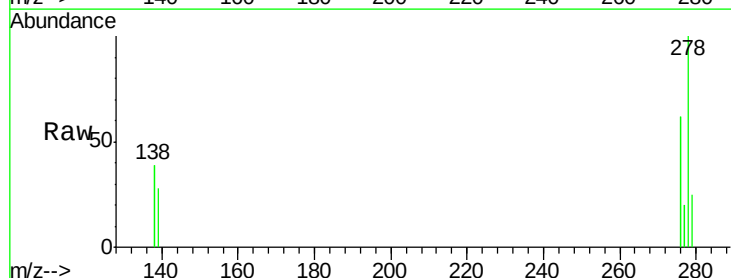
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

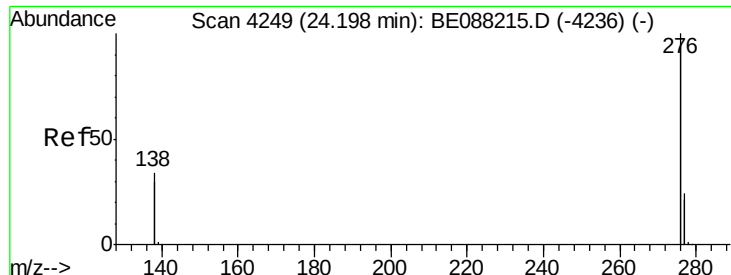
Tgt Ion: 252 Resp: 14861
Ion Ratio Lower Upper
252 100
253 22.3 17.8 26.8
125 16.4 13.5 20.3



#26
Dibenzo(a,h)anthracene
Concen: 1.18 ng
RT: 23.67 min Scan# 4168
Delta R.T. 0.00 min
Lab File: BE088241.D
Acq: 25 Oct 2014 10:04

Tgt Ion: 278 Resp: 12301
Ion Ratio Lower Upper
278 100
139 27.6 22.1 33.1
279 25.1 20.2 30.2





#27

Benzo(g,h,i)perylene

Concen: 1.30 ng

RT: 24.20 min Scan# 4249

Delta R.T. -0.00 min

Lab File: BE088241.D

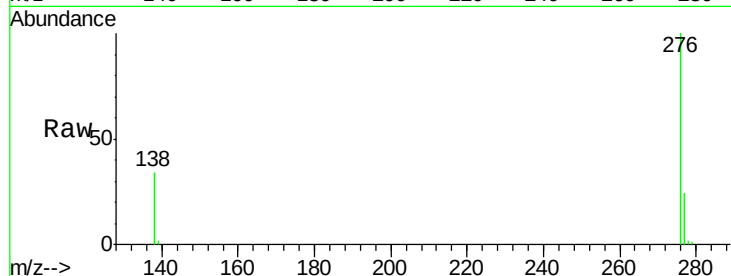
Acq: 25 Oct 2014 10:04

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



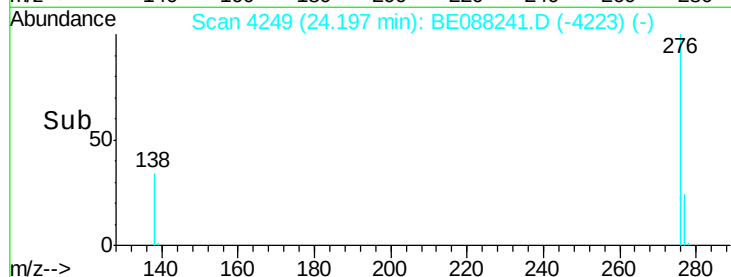
Tgt Ion: 276 Resp: 63288

Ion Ratio Lower Upper

276 100

277 24.4 19.4 29.2

138 34.4 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

