

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088454.D
 Acq On : 1 Nov 2014 17:02
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Nov 02 04:17:27 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.08	152	27190	5.00	ng	0.00
3) Naphthalene-d8	8.64	136	103453	5.00	ng	-0.01
7) Acenaphthene-d10	10.79	164	46786	5.00	ng	0.00
12) Phenanthrene-d10	12.89	188	89397	5.00	ng	0.00
16) Chrysene-d12	18.30	240	62524	5.00	ng	-0.01
22) Perylene-d12	21.36	264	58787	5.00	ng	-0.01

System Monitoring Compounds						
4) Nitrobenzene-d5	7.77	82	7831	1.03	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	13549	1.03	ng	0.00
18) Terphenyl-d14	16.06	244	10852	0.94	ng	-0.01

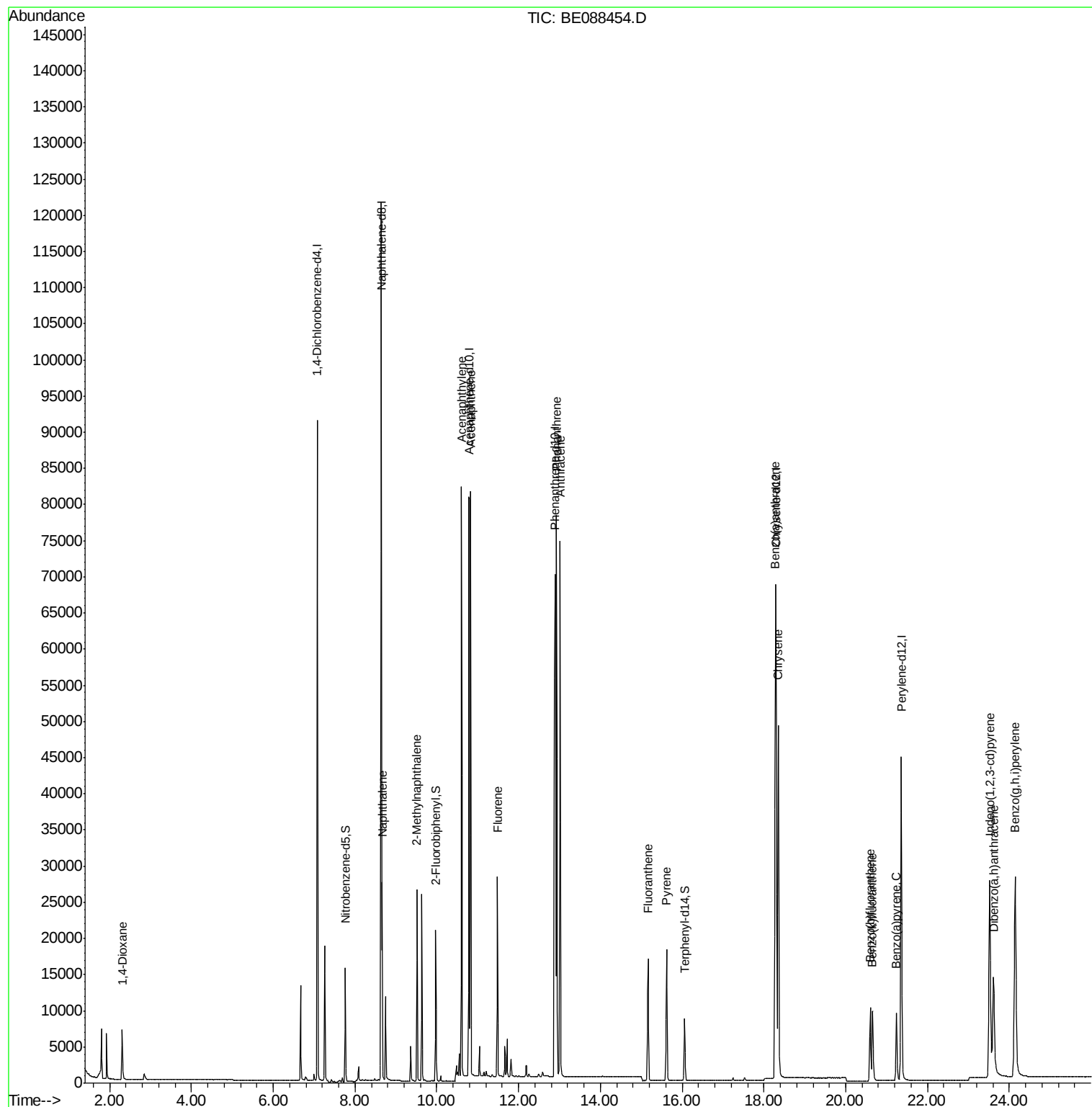
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.31	88	3771	1.06	ng	99
5) Naphthalene	8.66	128	22061	1.03	ng	100
6) 2-Methylnaphthalene	9.52	142	13424	1.01	ng	94
9) Acenaphthylene	10.61	152	77367	1.02	ng	99
10) Acenaphthene	10.83	154	11517	1.02	ng	99
11) Fluorene	11.48	166	12560	1.05	ng	100
13) Phenanthrene	12.93	178	96871	1.19	ng	99
14) Anthracene	13.02	178	72800	1.11	ng	99
15) Fluoranthene	15.17	202	16995	1.29	ng	100
17) Pyrene	15.62	202	18280	0.90	ng	100
19) Benzo(a)anthracene	18.27	228	61839	1.05	ng	97
20) Chrysene	18.35	228	59457	1.03	ng	100
21) Indeno(1,2,3-cd)pyrene	23.52	276	48441	0.90	ng	# 86
23) Benzo(b)fluoranthene	20.60	252	13885	1.08	ng	100
24) Benzo(k)fluoranthene	20.66	252	14816	1.04	ng	100
25) Benzo(a)pyrene	21.24	252	13358	1.08	ng	98
26) Dibenzo(a,h)anthracene	23.62	278	12163	1.06	ng	99
27) Benzo(g,h,i)perylene	24.14	276	55158	1.05	ng	99

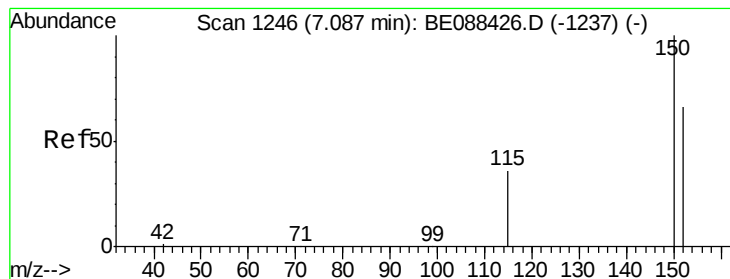
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.08 min Scan# 1245

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

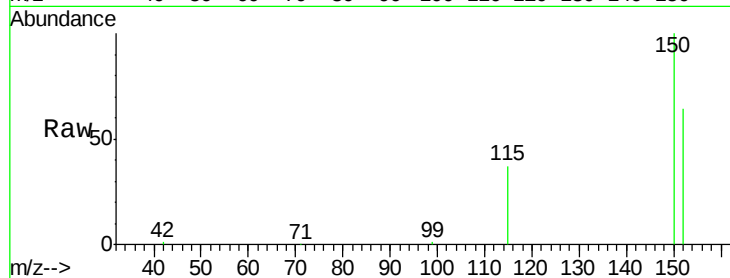
Tgt Ion:152 Resp: 27190

Ion Ratio Lower Upper

152 100

150 156.3 121.8 182.8

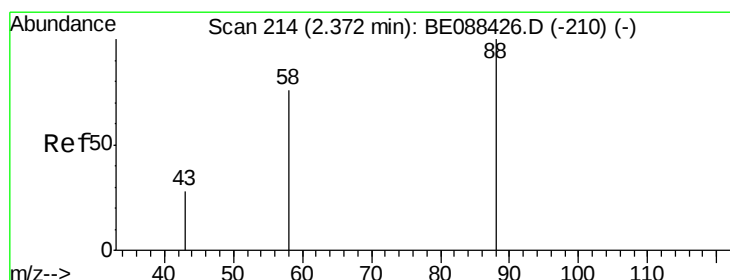
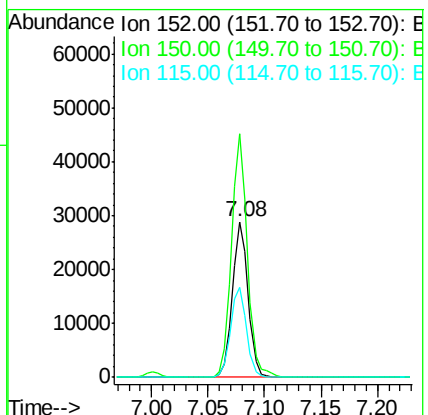
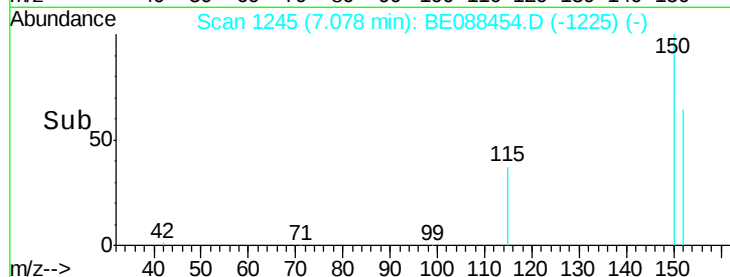
115 58.1 43.9 65.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 1.06 ng

RT: 2.31 min Scan# 200

Delta R.T. -0.07 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

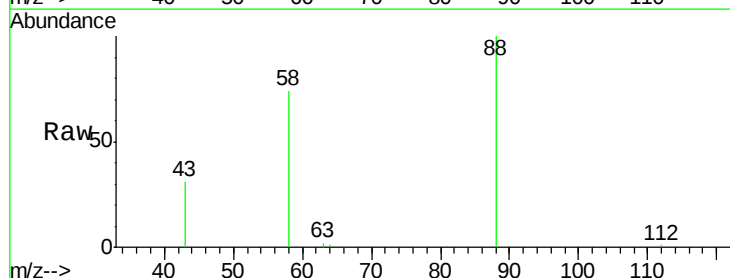
Tgt Ion: 88 Resp: 3771

Ion Ratio Lower Upper

88 100

58 74.1 59.1 88.7

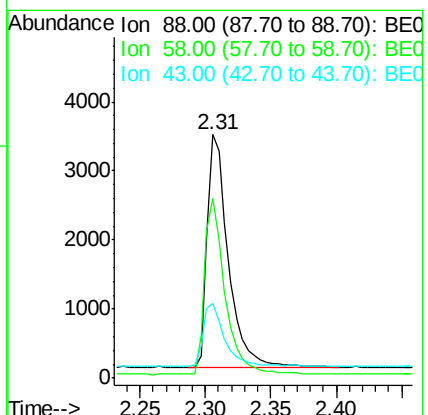
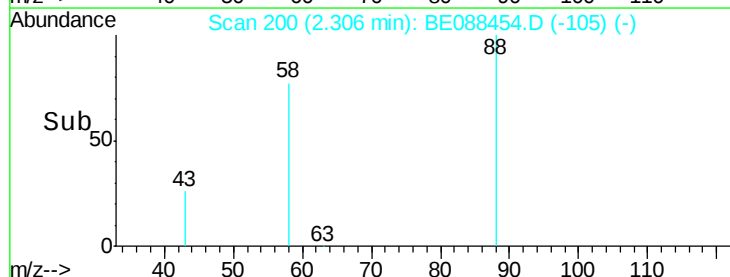
43 26.6 21.9 32.9

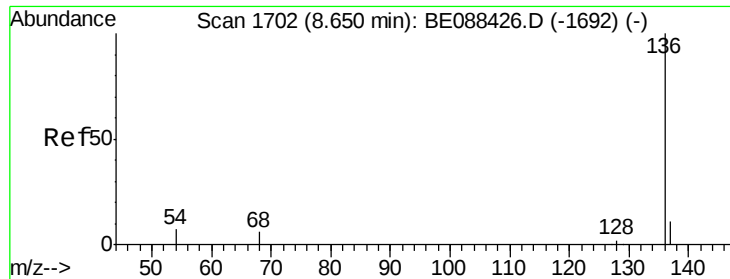


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

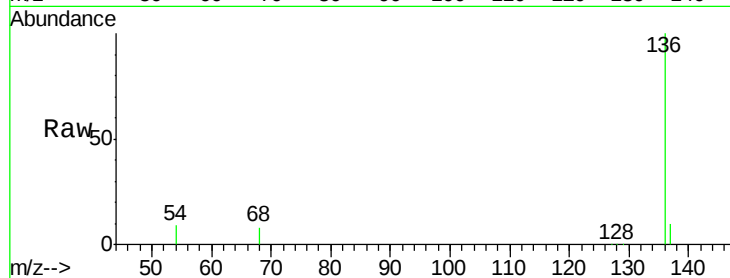




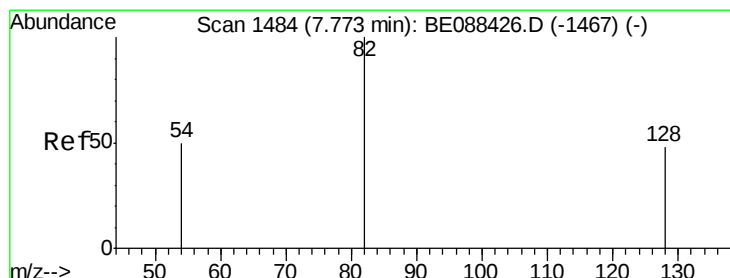
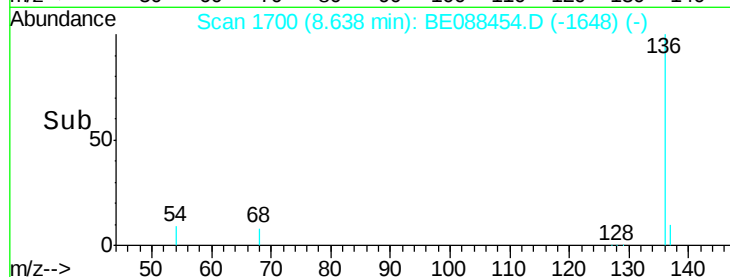
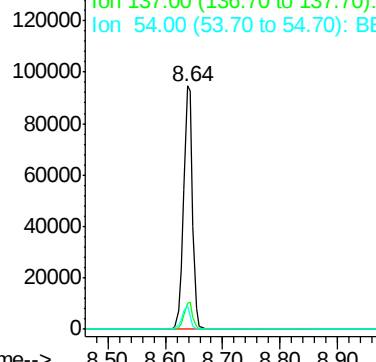
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.64 min Scan# 1700
Delta R.T. -0.01 min
Lab File: BE088454.D
Acq: 1 Nov 2014 17:02

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

Tgt Ion: 136 Resp: 103453
Ion Ratio Lower Upper
136 100
137 10.5 8.8 13.2
54 9.5 5.3 7.9#

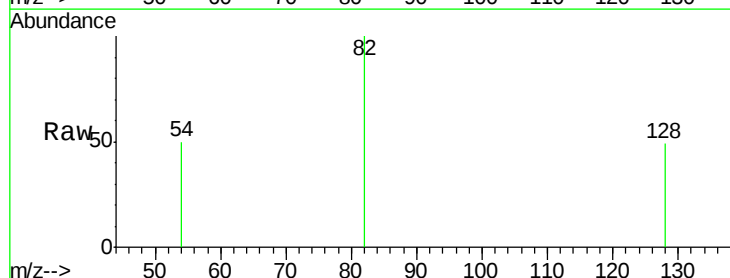


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

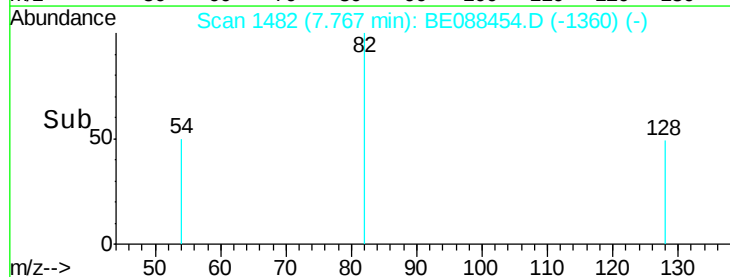
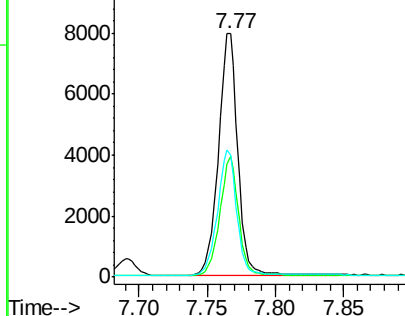


#4
Nitrobenzene-d5
Concen: 1.03 ng
RT: 7.77 min Scan# 1482
Delta R.T. -0.01 min
Lab File: BE088454.D
Acq: 1 Nov 2014 17:02

Tgt Ion: 82 Resp: 7831
Ion Ratio Lower Upper
82 100
128 49.4 38.4 57.6
54 50.3 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 1.03 ng

RT: 8.66 min Scan# 1705

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

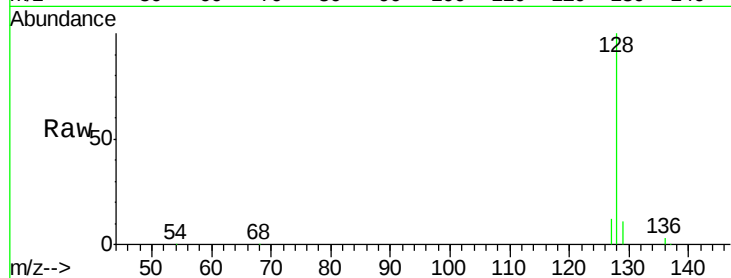
Tgt Ion:128 Resp: 22061

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

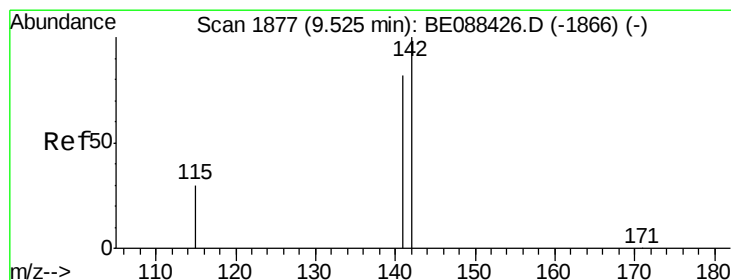
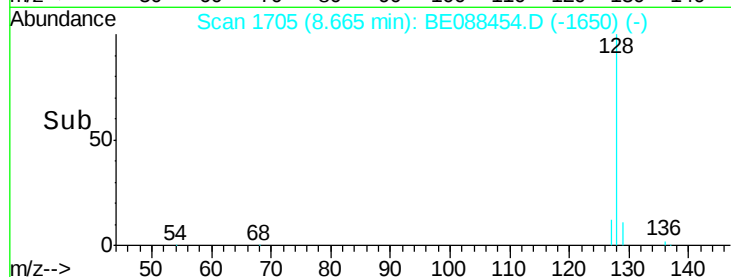
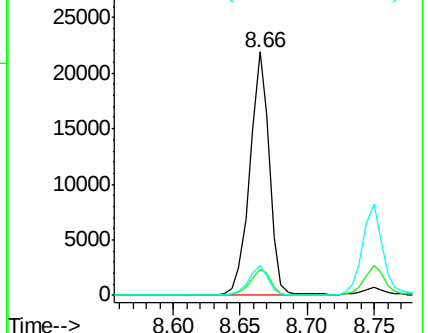
127 12.3 10.1 15.1



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: 9.52 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

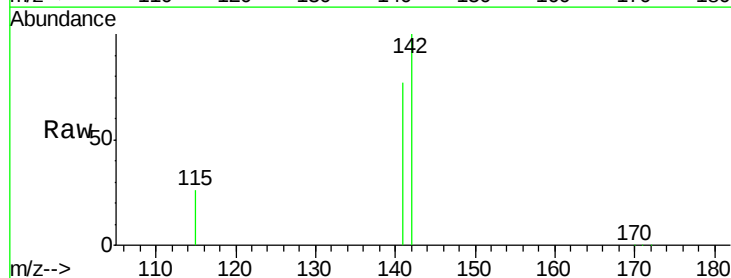
Tgt Ion:142 Resp: 13424

Ion Ratio Lower Upper

142 100

141 77.1 65.8 98.8

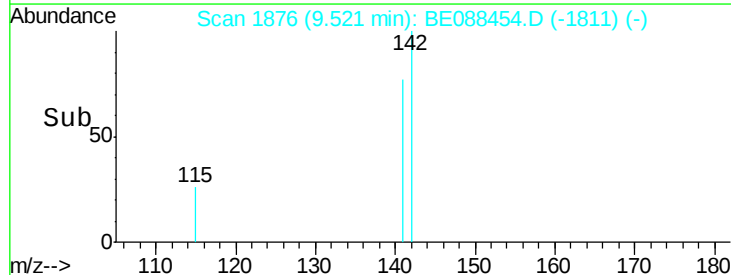
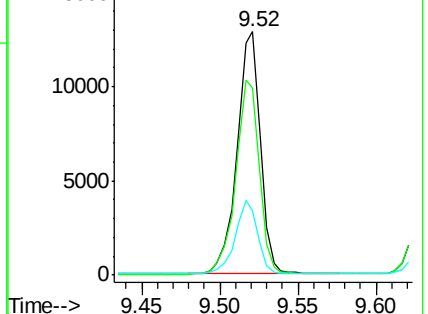
115 26.3 24.2 36.4



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: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

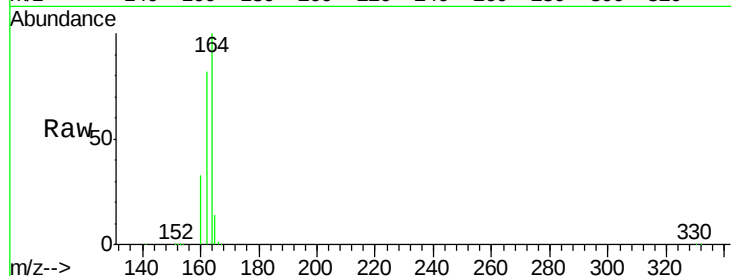
Tgt Ion:164 Resp: 46786

Ion Ratio Lower Upper

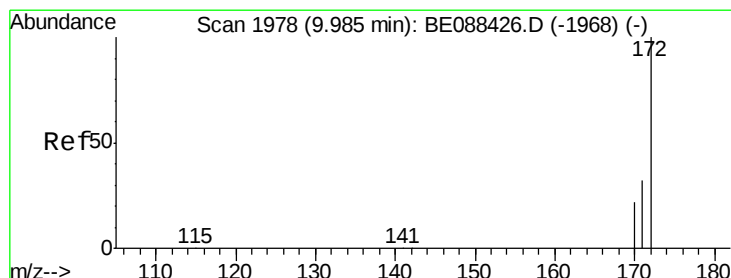
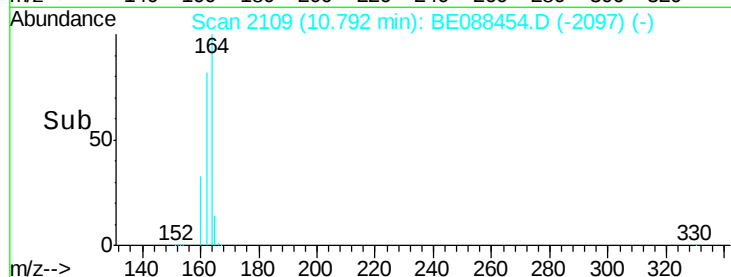
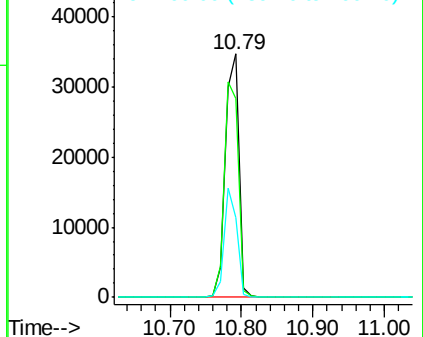
164 100

162 81.6 77.0 115.4

160 33.0 36.8 55.2#



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 1.03 ng

RT: 9.98 min Scan# 1976

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

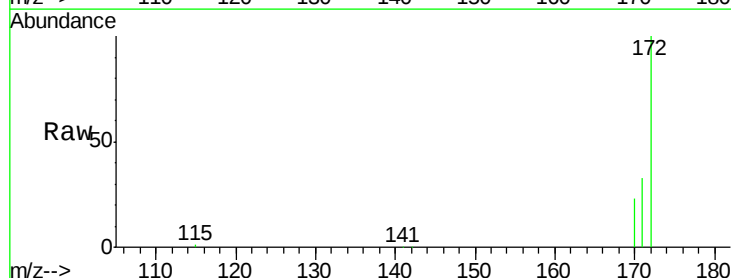
Tgt Ion:172 Resp: 13549

Ion Ratio Lower Upper

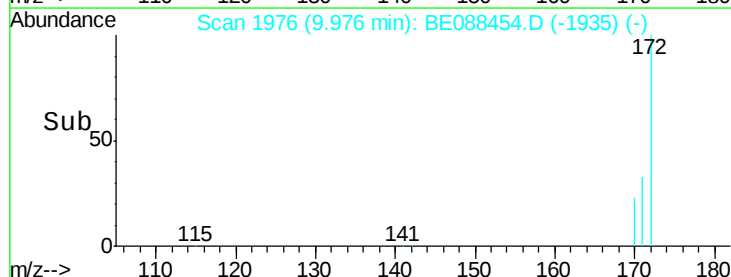
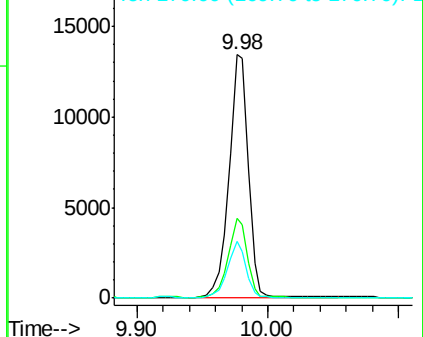
172 100

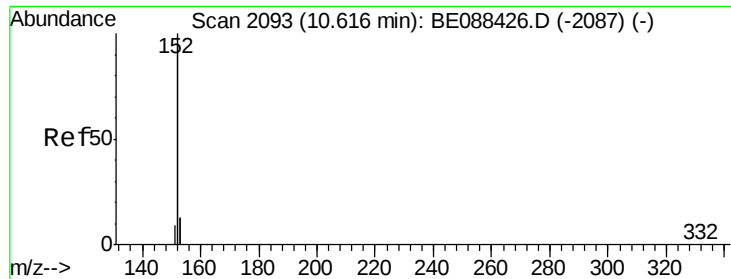
171 32.7 26.0 39.0

170 23.2 17.6 26.4



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.02 ng

RT: 10.61 min Scan# 2092

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

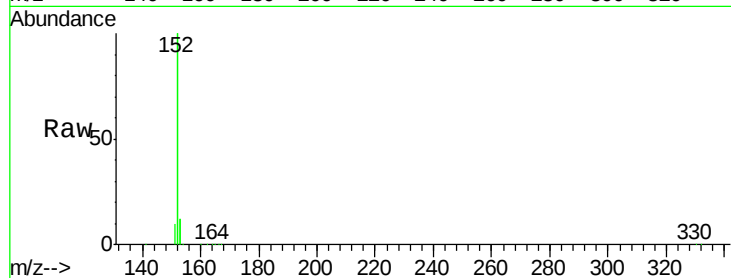
Tgt Ion:152 Resp: 77367

Ion Ratio Lower Upper

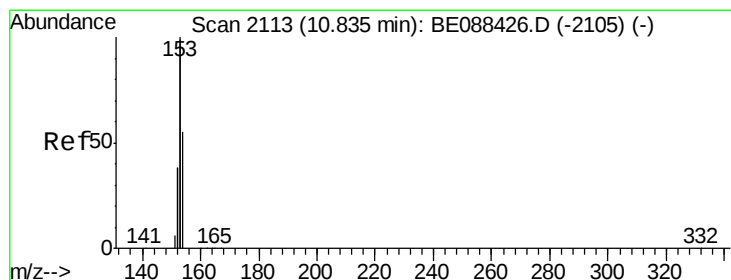
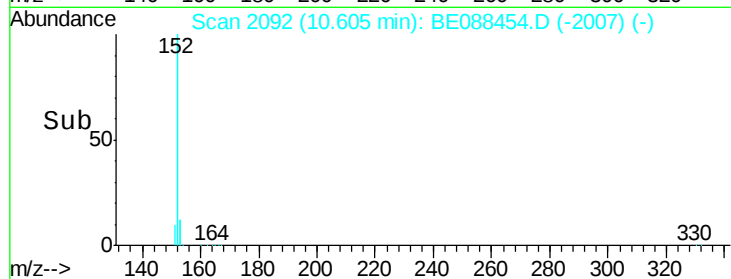
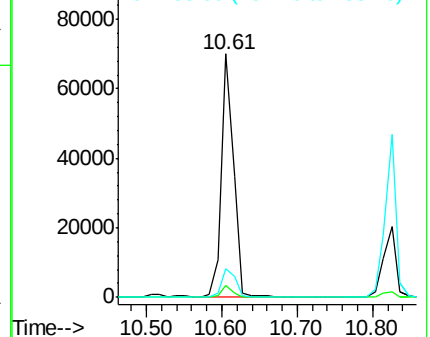
152 100

151 4.8 4.4 6.6

153 12.9 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 1.02 ng

RT: 10.83 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

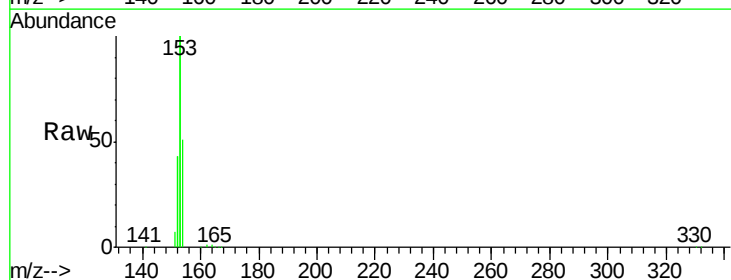
Tgt Ion:154 Resp: 11517

Ion Ratio Lower Upper

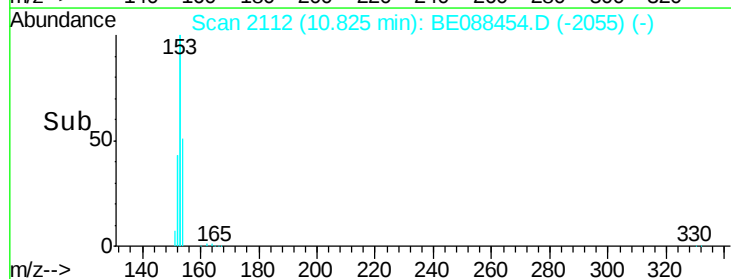
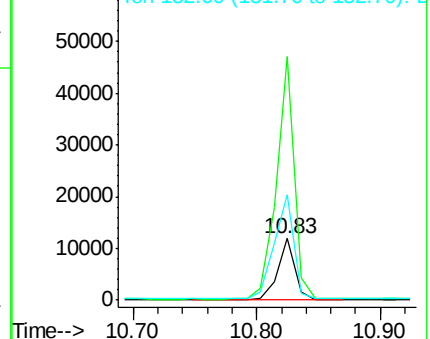
154 100

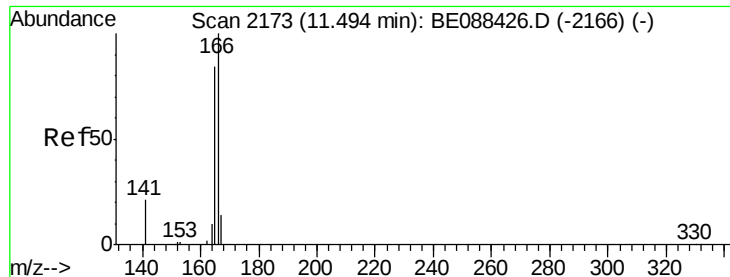
153 407.2 324.3 486.5

152 193.4 154.9 232.3



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 1.05 ng

RT: 11.48 min Scan# 2172

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

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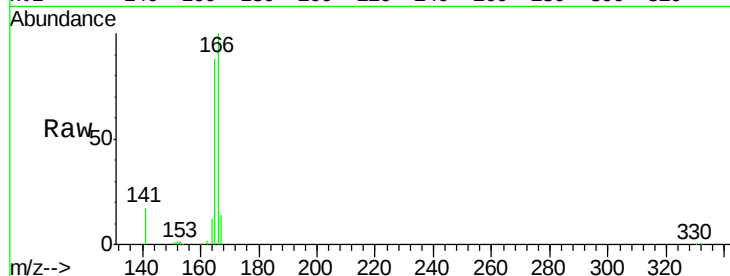
Tgt Ion:166 Resp: 12560

Ion Ratio Lower Upper

166 100

165 89.4 71.3 106.9

167 13.2 10.7 16.1

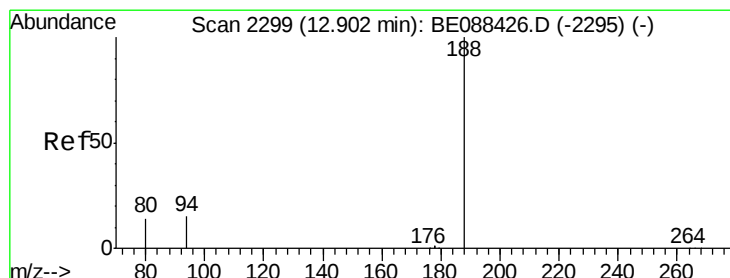
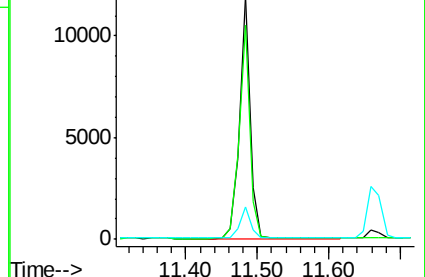
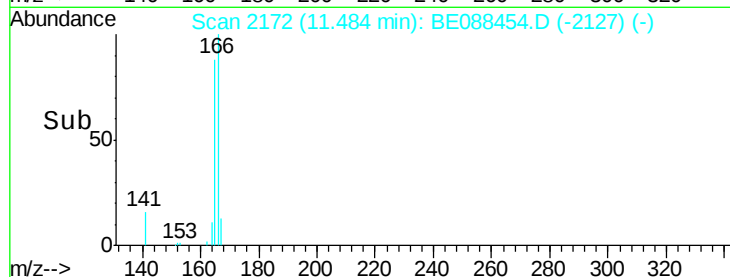


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

11.48



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.89 min Scan# 2298

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

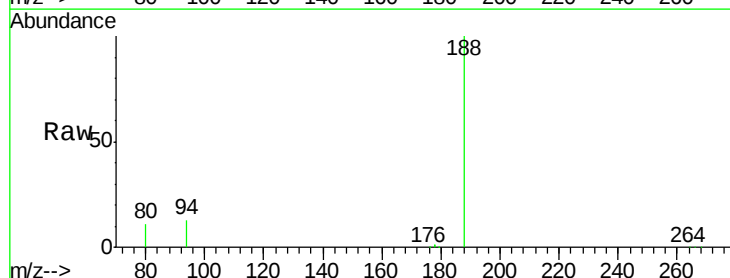
Tgt Ion:188 Resp: 89397

Ion Ratio Lower Upper

188 100

94 12.5 11.8 17.8

80 11.1 10.9 16.3

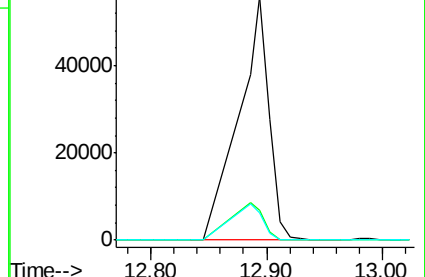
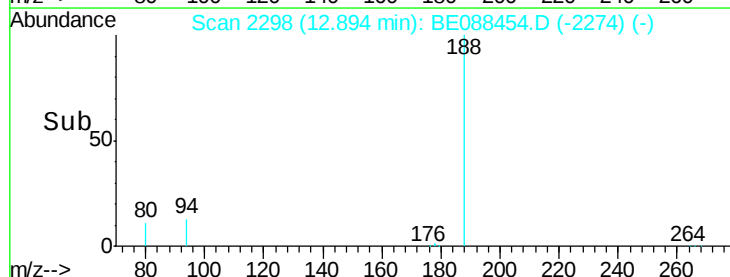


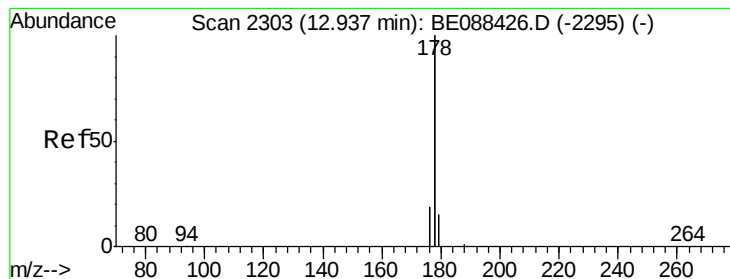
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

12.89





#13

Phenanthrene

Concen: 1.19 ng

RT: 12.93 min Scan# 2302

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

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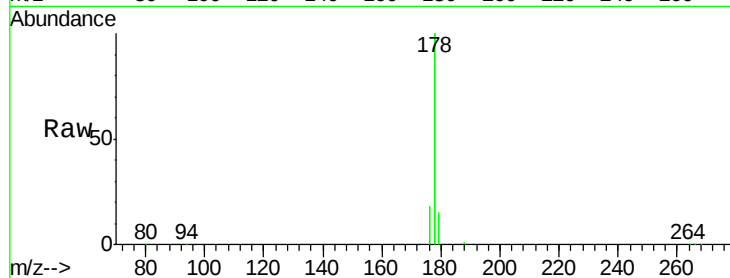
Tgt Ion:178 Resp: 96871

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

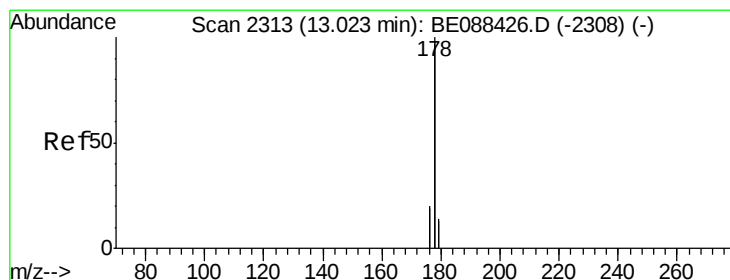
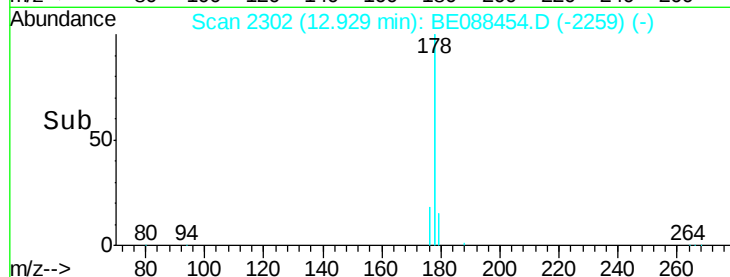
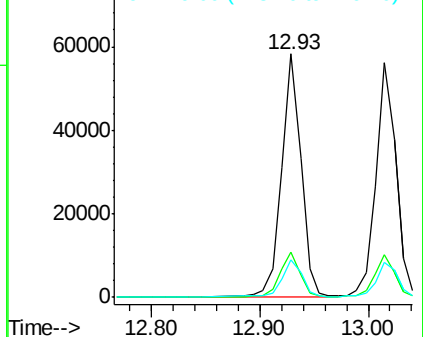
179 16.6 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 1.11 ng

RT: 13.02 min Scan# 2312

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

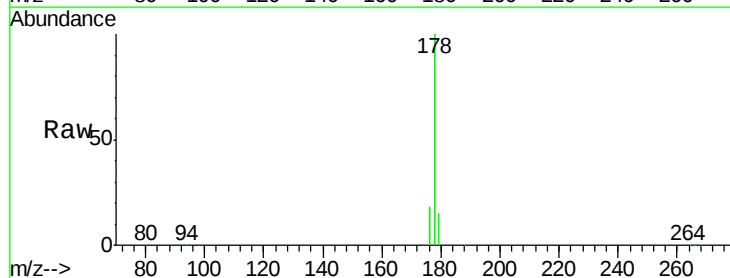
Tgt Ion:178 Resp: 72800

Ion Ratio Lower Upper

178 100

176 18.1 15.0 22.4

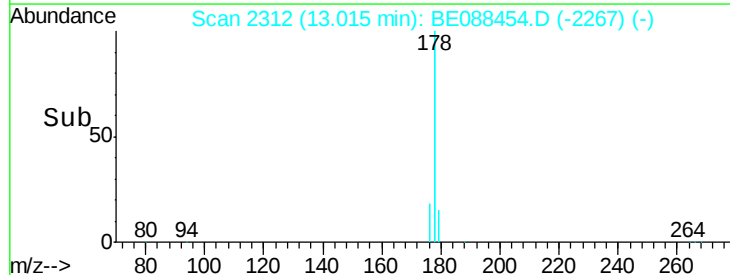
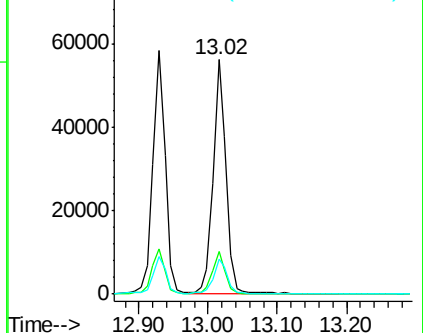
179 15.7 12.5 18.7

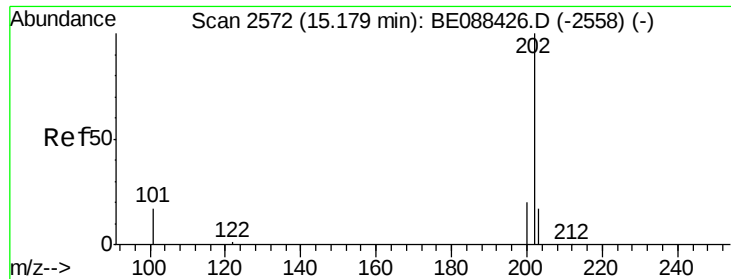


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

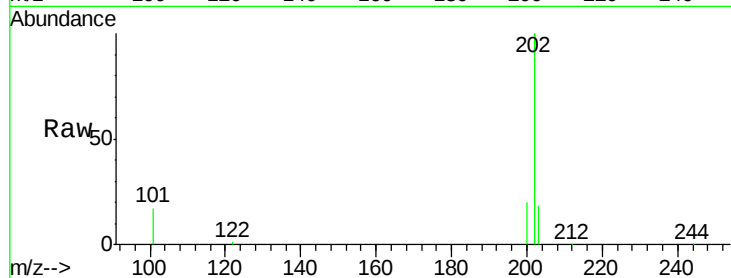




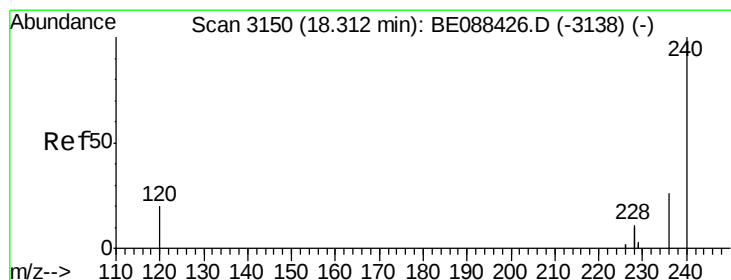
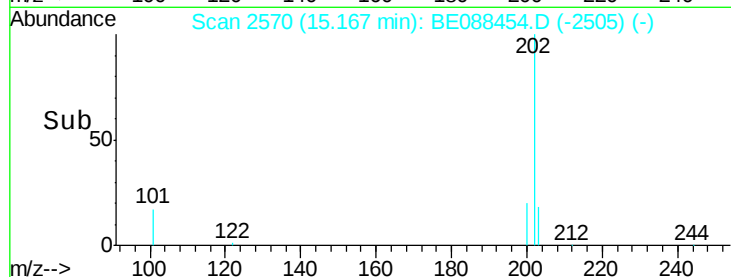
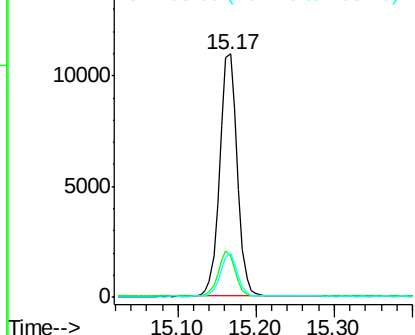
#15
 Fluoranthene
 Concen: 1.29 ng
 RT: 15.17 min Scan# 2570
 Delta R.T. -0.01 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tgt Ion	Ratio	Lower	Upper
202	100		
101	18.0	14.3	21.5
203	17.1	13.6	20.4

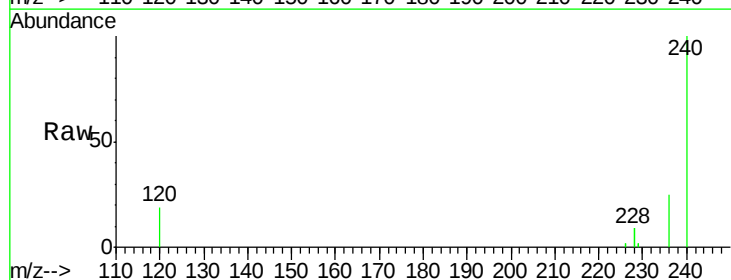


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

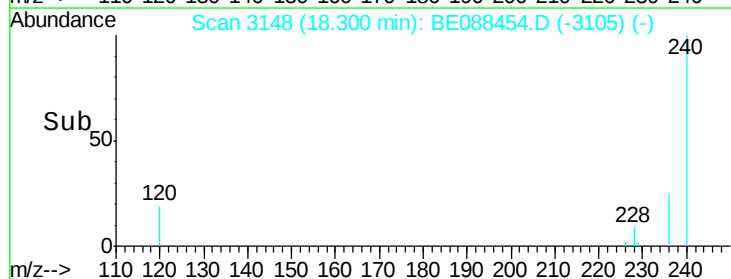
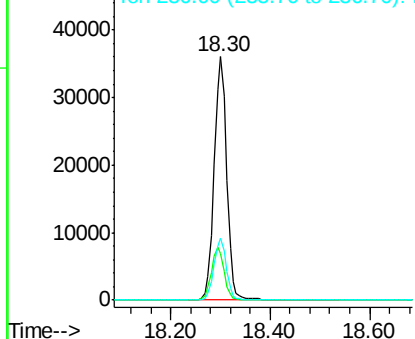


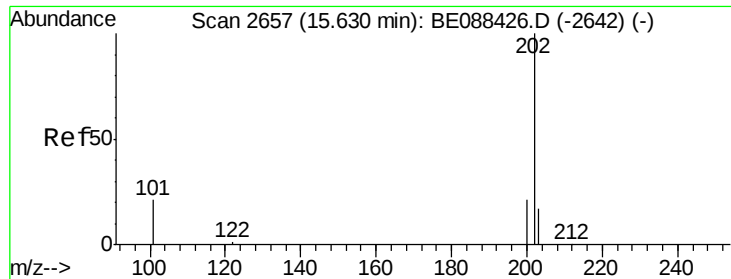
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.30 min Scan# 3148
 Delta R.T. -0.01 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.3	16.4	24.6
236	25.2	20.5	30.7



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

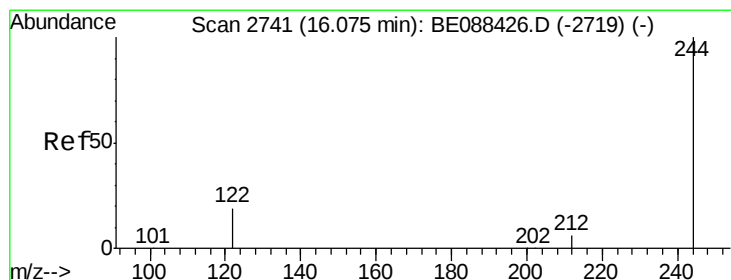
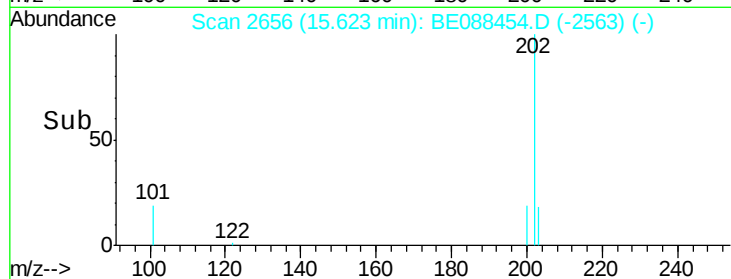
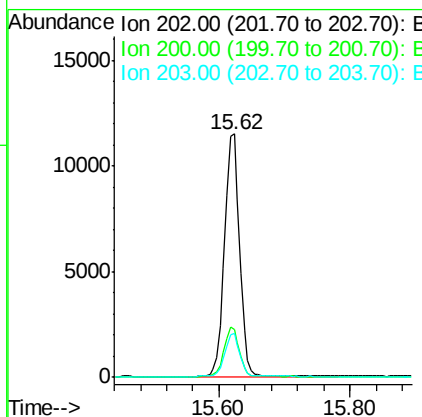
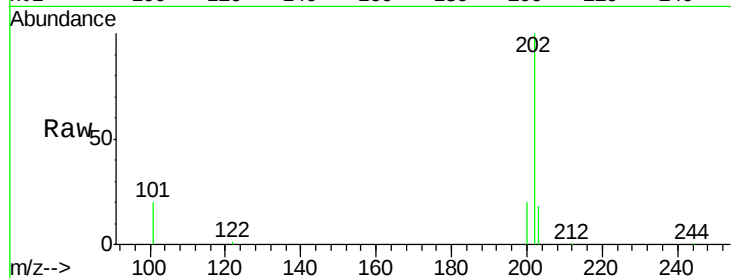




#17
 Pyrene
 Concen: 0.90 ng
 RT: 15.62 min Scan# 2656
 Delta R.T. -0.01 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

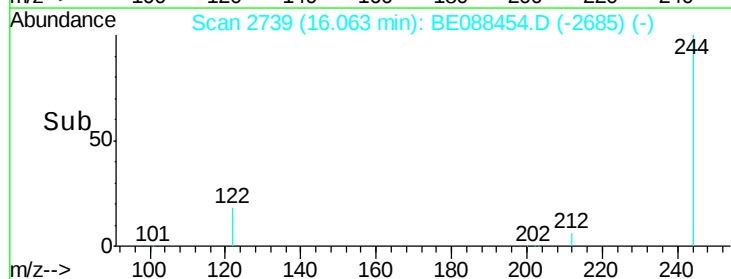
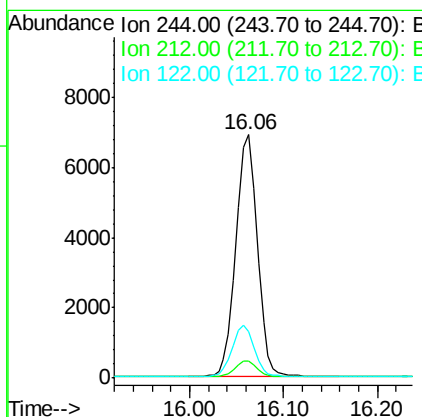
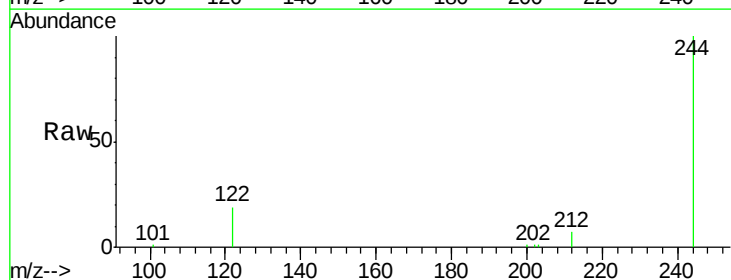
Instrument :
 BNA_E
 ClientSampleId :
 SSTCCCC001

Tgt Ion: 202 Resp: 18280
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.1 24.1
 203 17.3 13.8 20.8



#18
 Terphenyl-d14
 Concen: 0.94 ng
 RT: 16.06 min Scan# 2739
 Delta R.T. -0.01 min
 Lab File: BE088454.D
 Acq: 1 Nov 2014 17:02

Tgt Ion: 244 Resp: 10852
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 19.1 15.6 23.4





#19

Benzo(a)anthracene

Concen: 1.05 ng

RT: 18.27 min Scan# 3144

Delta R.T. -0.02 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

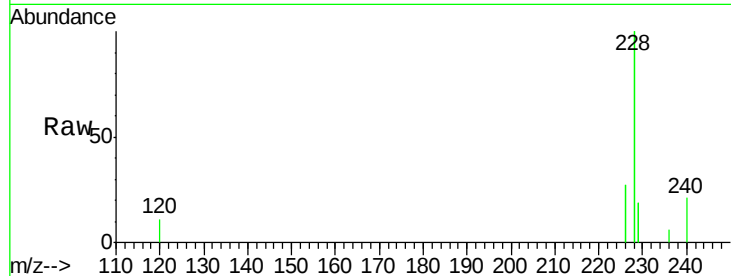
Tgt Ion:228 Resp: 61839

Ion Ratio Lower Upper

228 100

226 26.5 19.8 29.6

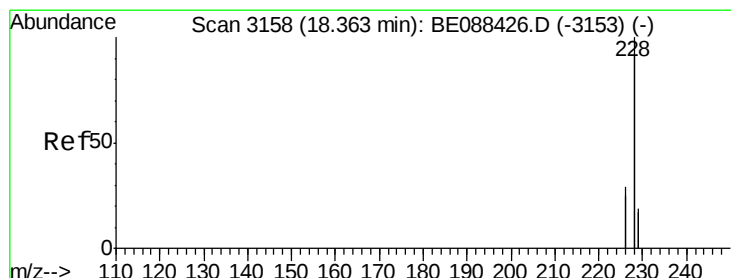
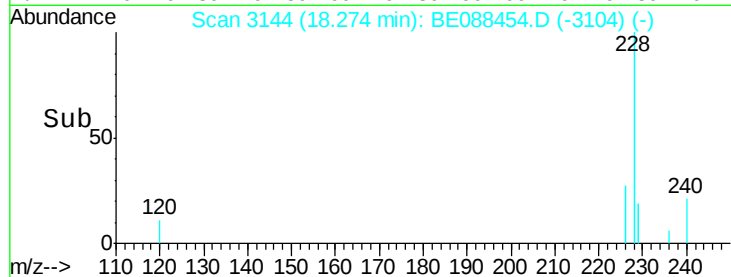
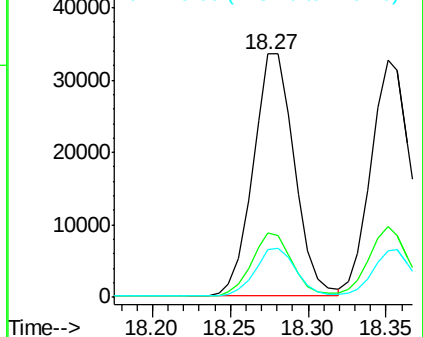
229 19.4 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 1.03 ng

RT: 18.35 min Scan# 3156

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

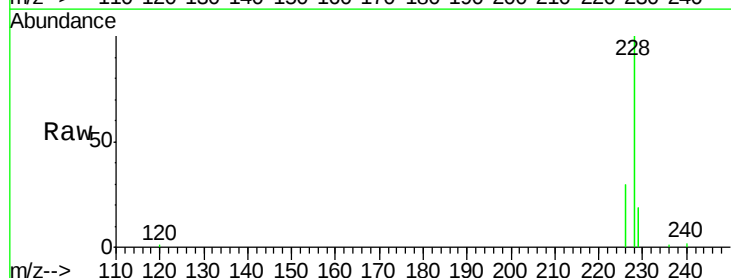
Tgt Ion:228 Resp: 59457

Ion Ratio Lower Upper

228 100

226 29.6 23.6 35.4

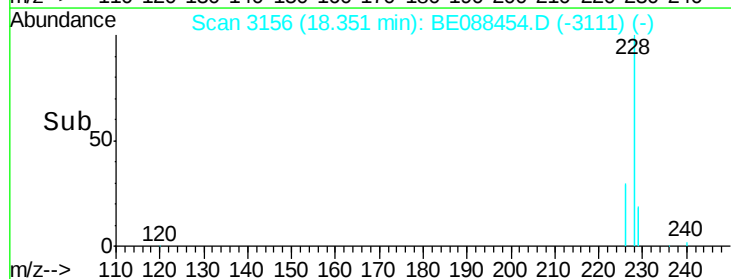
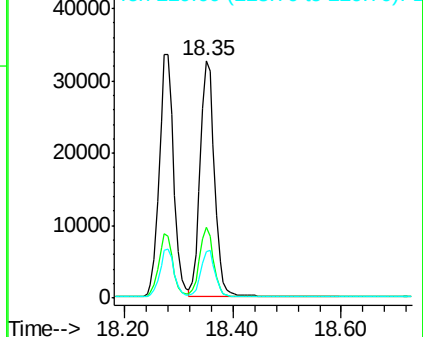
229 19.5 15.4 23.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.90 ng

RT: 23.52 min Scan# 4146

Delta R.T. -0.02 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

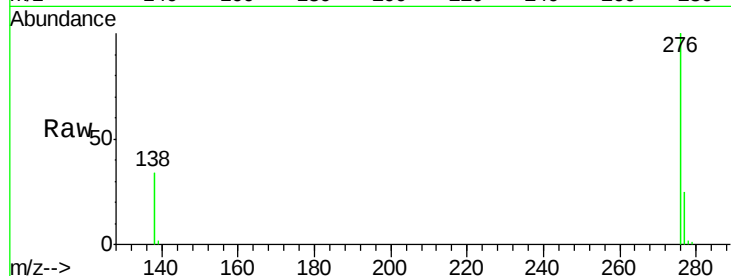
Tgt Ion:276 Resp: 48441

Ion Ratio Lower Upper

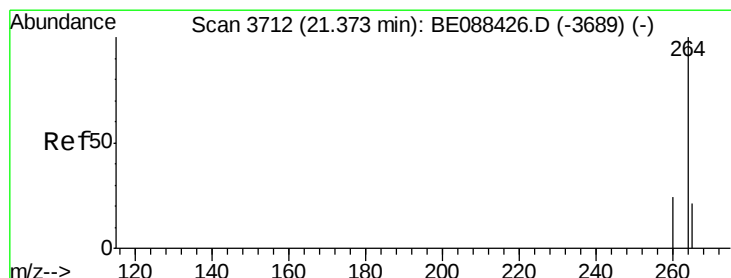
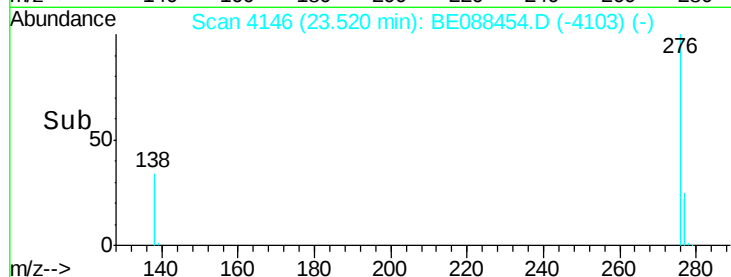
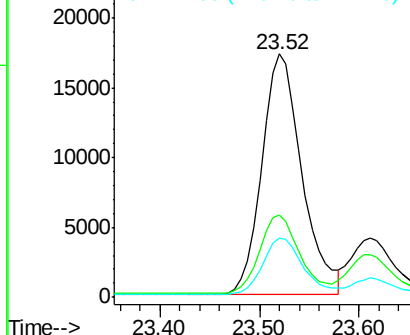
276 100

138 32.7 20.2 30.2#

277 23.8 14.8 22.2#



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.36 min Scan# 3709

Delta R.T. -0.01 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

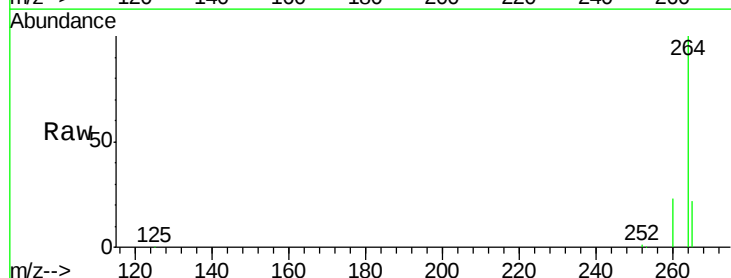
Tgt Ion:264 Resp: 58787

Ion Ratio Lower Upper

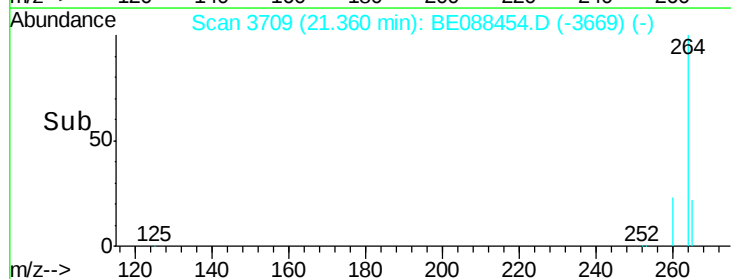
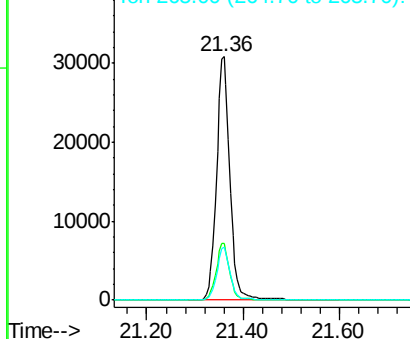
264 100

260 23.3 18.9 28.3

265 21.9 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

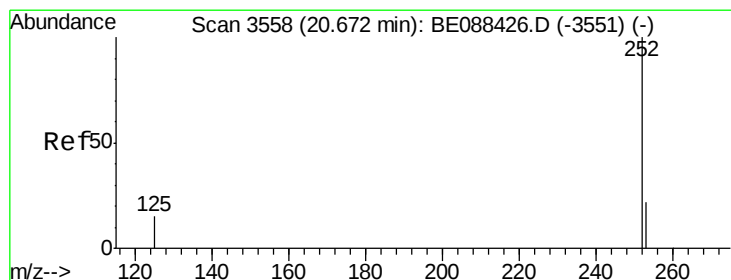
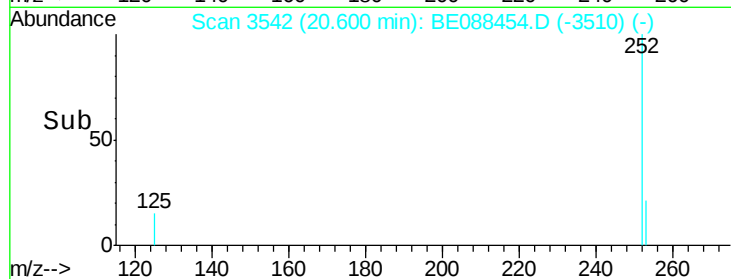
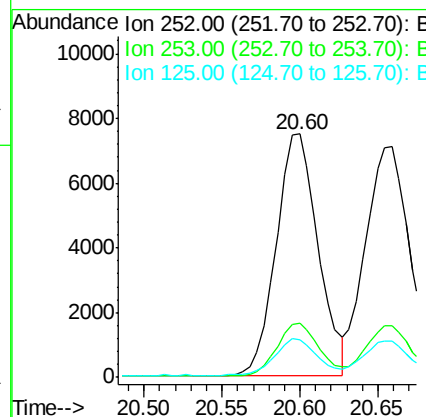
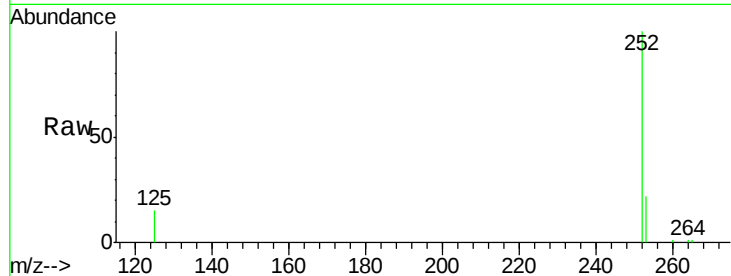




#23
Benzo(b)fluoranthene
Concen: 1.08 ng
RT: 20.60 min Scan# 3542
Delta R.T. -0.01 min
Lab File: BE088454.D
Acq: 1 Nov 2014 17:02

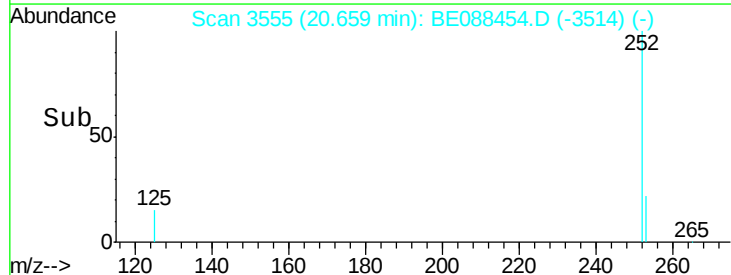
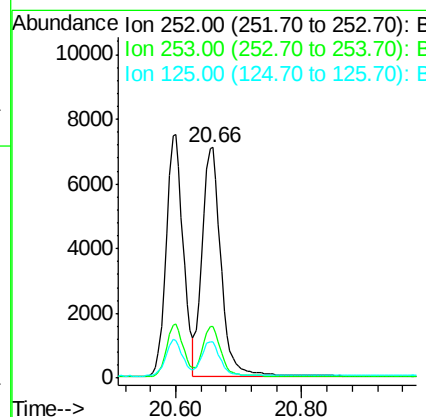
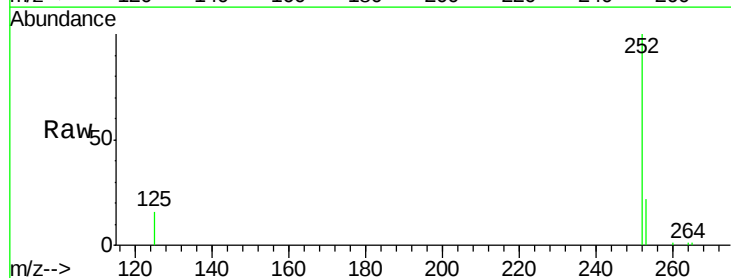
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

Tgt Ion: 252 Resp: 13885
Ion Ratio Lower Upper
252 100
253 22.0 17.8 26.8
125 15.5 12.3 18.5



#24
Benzo(k)fluoranthene
Concen: 1.04 ng
RT: 20.66 min Scan# 3555
Delta R.T. -0.01 min
Lab File: BE088454.D
Acq: 1 Nov 2014 17:02

Tgt Ion: 252 Resp: 14816
Ion Ratio Lower Upper
252 100
253 22.3 17.8 26.8
125 15.7 12.2 18.4





#25

Benzo(a)pyrene

Concen: 1.08 ng

RT: 21.24 min Scan# 3682

Delta R.T. -0.02 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

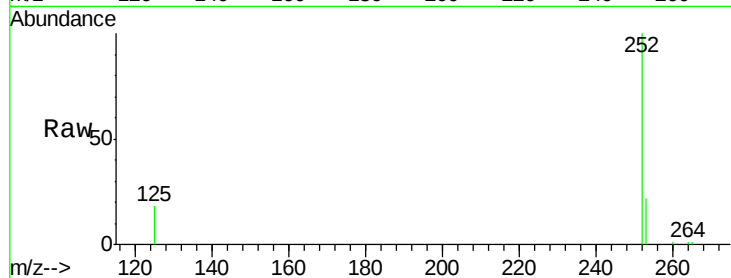
Tgt Ion:252 Resp: 13358

Ion Ratio Lower Upper

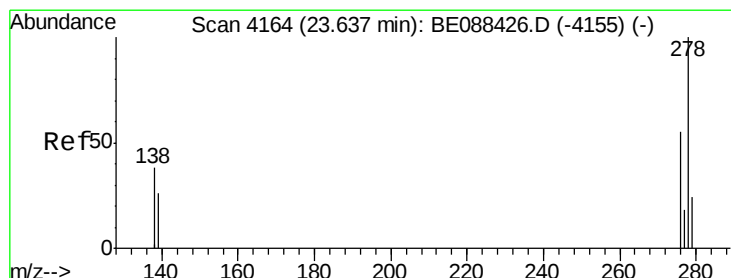
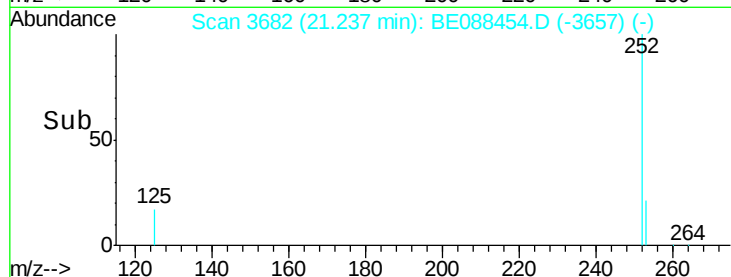
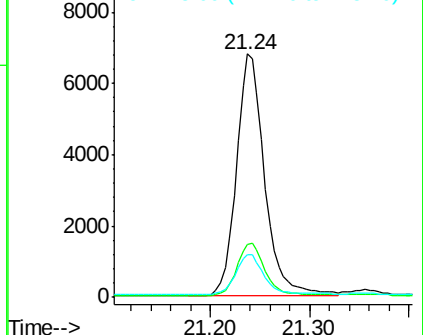
252 100

253 21.7 18.2 27.4

125 17.7 13.7 20.5



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 1.06 ng

RT: 23.62 min Scan# 4161

Delta R.T. -0.02 min

Lab File: BE088454.D

Acq: 1 Nov 2014 17:02

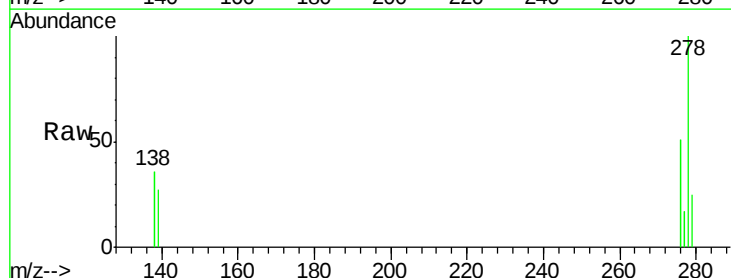
Tgt Ion:278 Resp: 12163

Ion Ratio Lower Upper

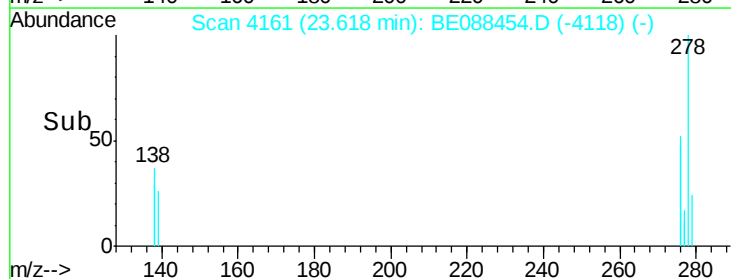
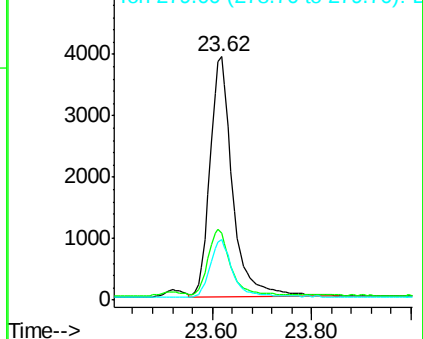
278 100

139 27.5 22.1 33.1

279 25.0 19.7 29.5



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 1.05 ng

RT: 24.14 min Scan# 4241

Delta R.T. -0.03 min

Lab File: BE088454.D

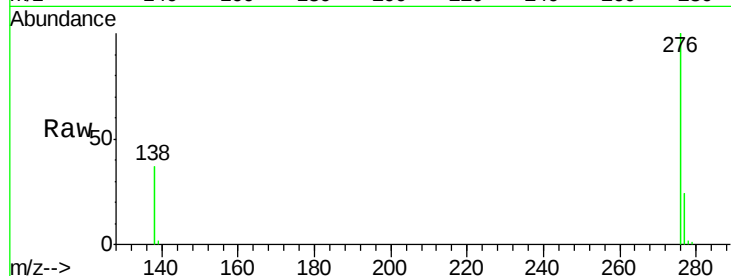
Acq: 1 Nov 2014 17:02

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001



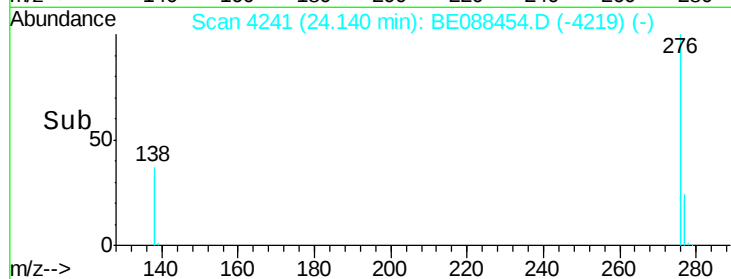
Tgt Ion: 276 Resp: 55158

Ion Ratio Lower Upper

276 100

277 24.2 19.8 29.6

138 36.8 29.3 43.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

