

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088473.D
 Acq On : 2 Nov 2014 3:40
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Nov 02 04:25:35 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	7.09	152	25018	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	96304	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	44366	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	85520	5.00	ng	0.00
16) Chrysene-d12	18.33	240	52493	5.00	ng	0.02
22) Perylene-d12	21.40	264	52452	5.00	ng	0.02

System Monitoring Compounds						
4) Nitrobenzene-d5	7.77	82	7435	1.05	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	12973	1.04	ng	0.00
18) Terphenyl-d14	16.08	244	9409	0.98	ng	0.00

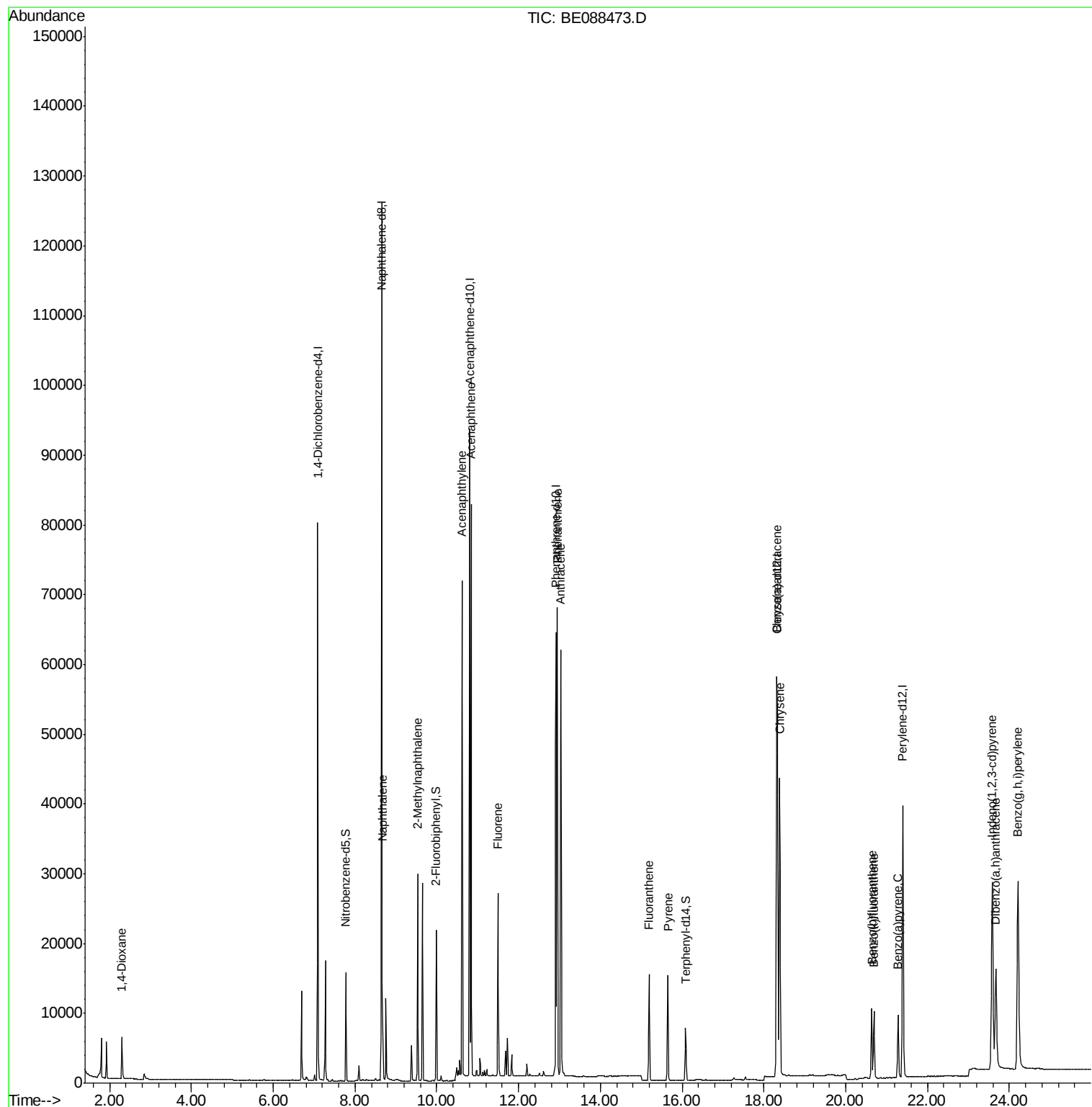
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.30	88	3289	1.00	ng	100
5) Naphthalene	8.68	128	20835	1.05	ng	99
6) 2-Methylnaphthalene	9.53	142	12860	1.04	ng	97
9) Acenaphthylene	10.62	152	74915	1.04	ng	100
10) Acenaphthene	10.84	154	10713	1.01	ng	99
11) Fluorene	11.49	166	12082	1.07	ng	100
13) Phenanthrene	12.95	178	83161	1.07	ng	97
14) Anthracene	13.03	178	65812	1.05	ng	98
15) Fluoranthene	15.19	202	14688	1.16	ng	100
17) Pyrene	15.65	202	15423	0.90	ng	100
19) Benzo(a)anthracene	18.31	228	53981	1.09	ng	99
20) Chrysene	18.38	228	50351	1.04	ng	100
21) Indeno(1,2,3-cd)pyrene	23.58	276	47770	1.06	ng	# 87
23) Benzo(b)fluoranthene	20.64	252	12904	1.12	ng	97
24) Benzo(k)fluoranthene	20.69	252	13022	1.03	ng	96
25) Benzo(a)pyrene	21.28	252	12548	1.14	ng	96
26) Dibenzo(a,h)anthracene	23.68	278	11940	1.16	ng	96
27) Benzo(g,h,i)perylene	24.21	276	52225	1.11	ng	99

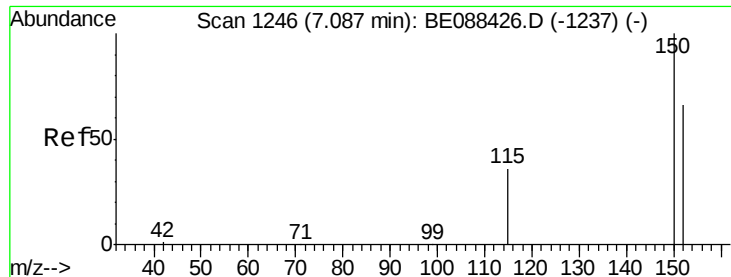
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

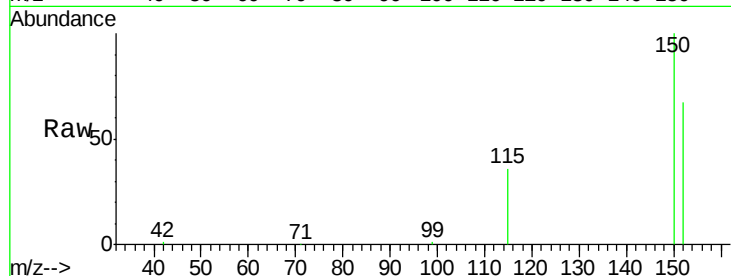
Tgt Ion:152 Resp: 25018

Ion Ratio Lower Upper

152 100

150 149.3 121.8 182.8

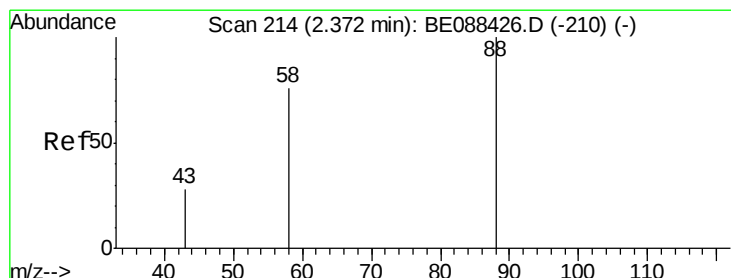
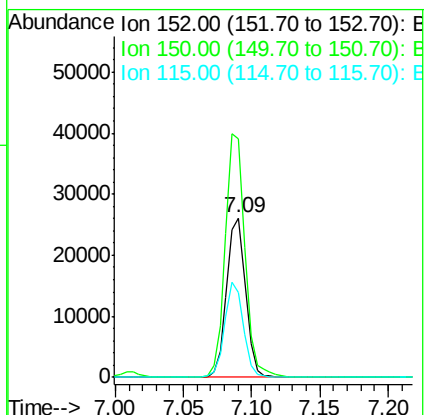
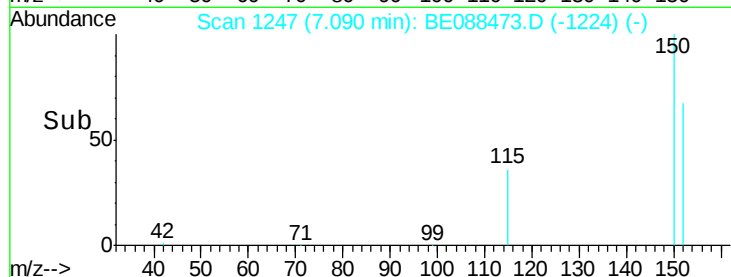
115 53.3 43.9 65.9



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: 1.00 ng

RT: 2.30 min Scan# 199

Delta R.T. -0.07 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

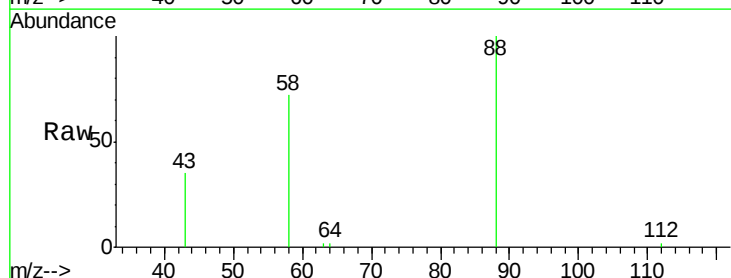
Tgt Ion: 88 Resp: 3289

Ion Ratio Lower Upper

88 100

58 74.2 59.1 88.7

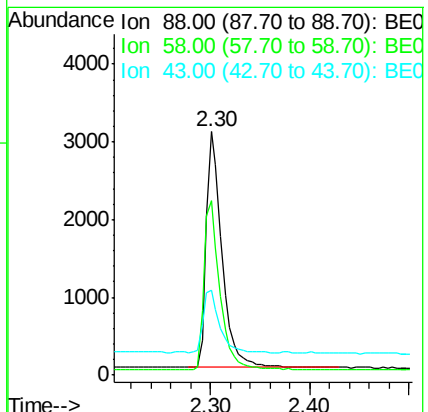
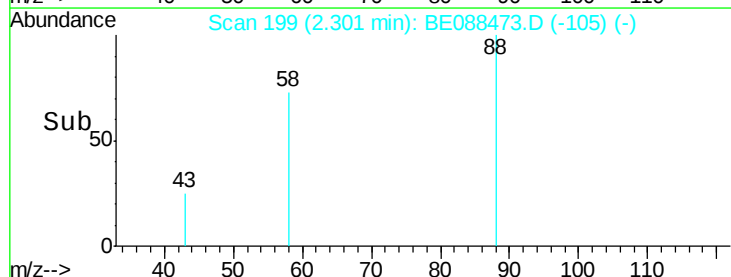
43 27.7 21.9 32.9

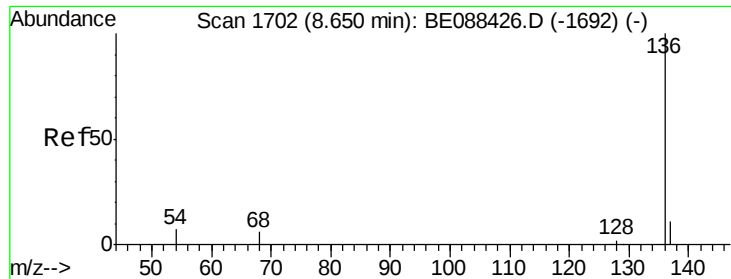


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.65 min Scan# 1702

Delta R.T. -0.00 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

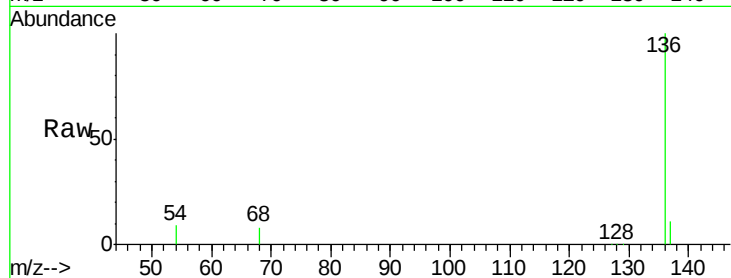
Tgt Ion:136 Resp: 96304

Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

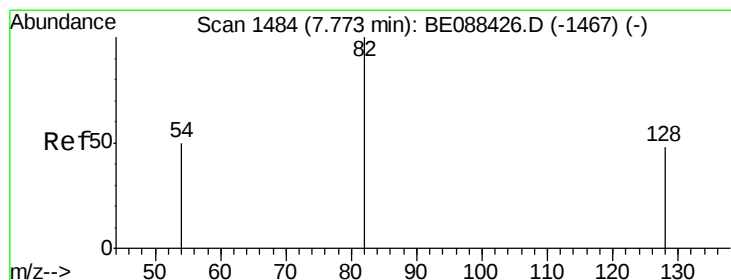
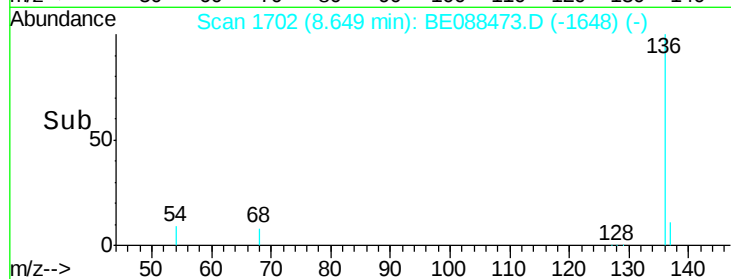
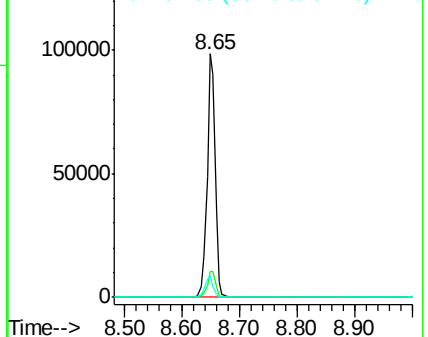
54 9.1 5.3 7.9#



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: 1.05 ng

RT: 7.77 min Scan# 1485

Delta R.T. 0.00 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

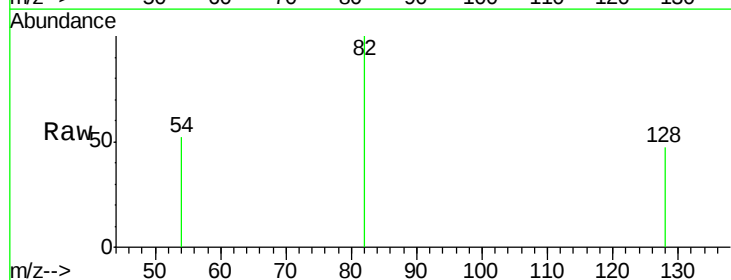
Tgt Ion: 82 Resp: 7435

Ion Ratio Lower Upper

82 100

128 46.6 38.4 57.6

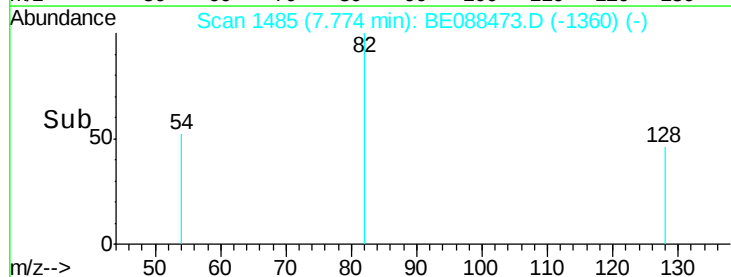
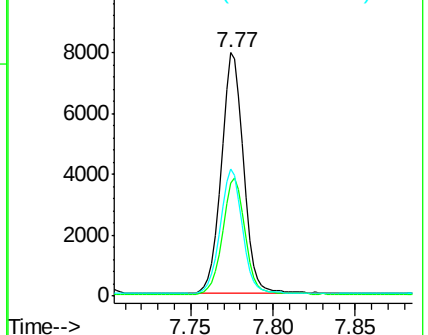
54 52.4 40.2 60.2

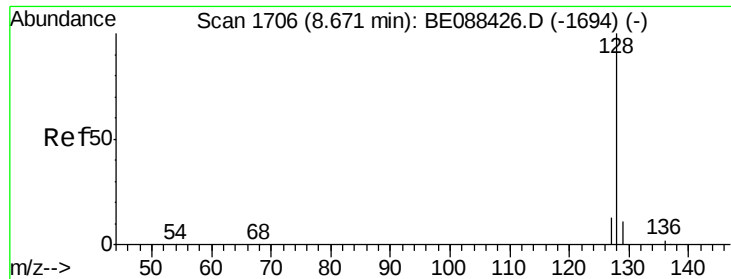


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 1.05 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

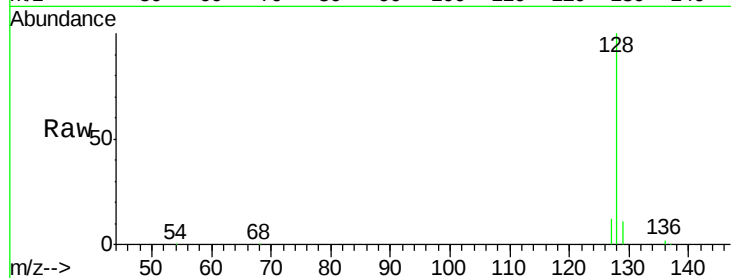
Tgt Ion:128 Resp: 20835

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

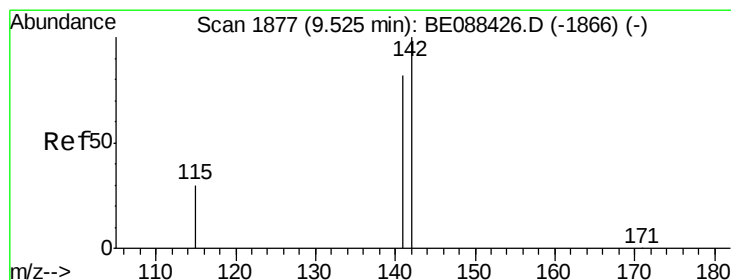
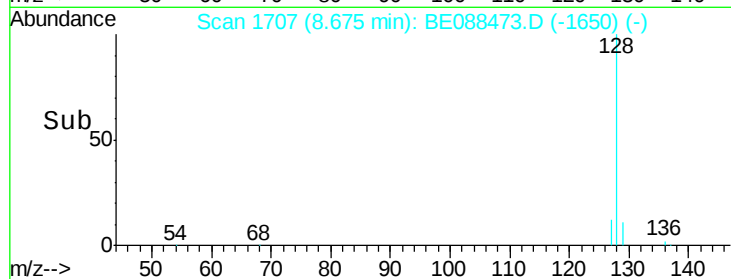
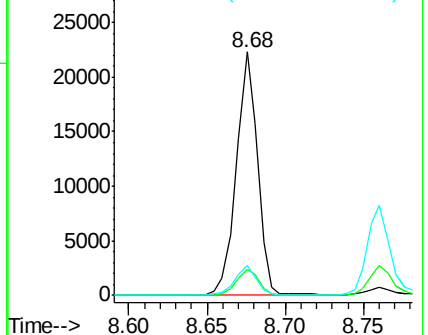
127 12.2 10.1 15.1



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: 1.04 ng

RT: 9.53 min Scan# 1878

Delta R.T. 0.00 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

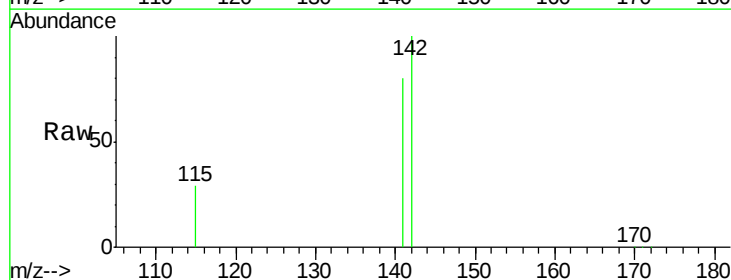
Tgt Ion:142 Resp: 12860

Ion Ratio Lower Upper

142 100

141 80.2 65.8 98.8

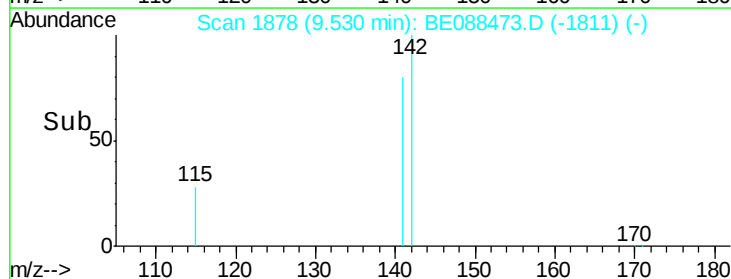
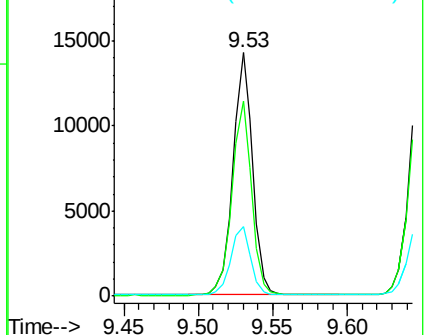
115 28.7 24.2 36.4

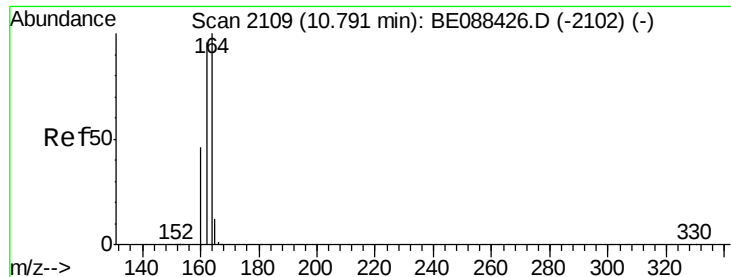


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.80 min Scan# 2110

Delta R.T. 0.01 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

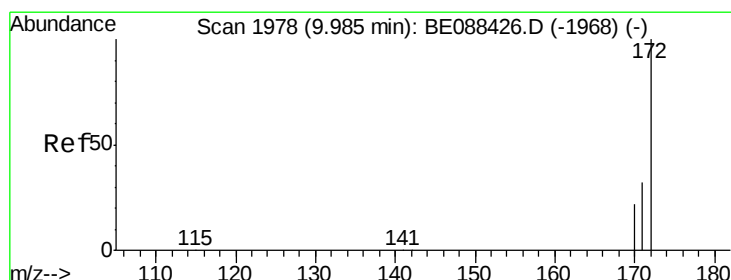
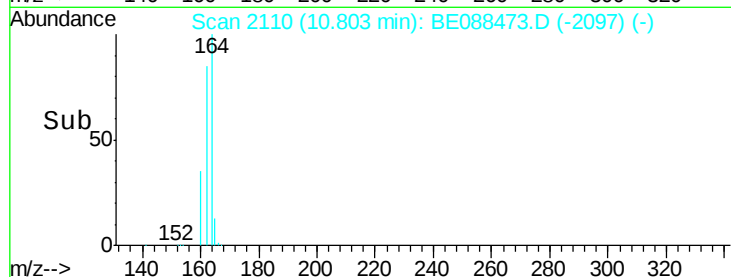
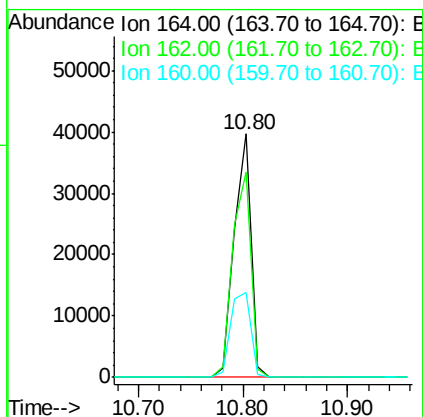
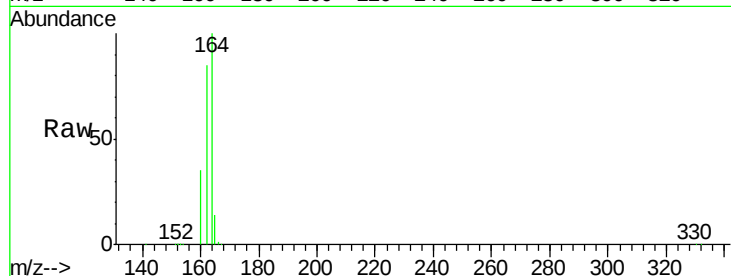
Tgt Ion:164 Resp: 44366

Ion Ratio Lower Upper

164 100

162 84.5 77.0 115.4

160 34.9 36.8 55.2#



#8

2-Fluorobiphenyl

Concen: 1.04 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.01 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

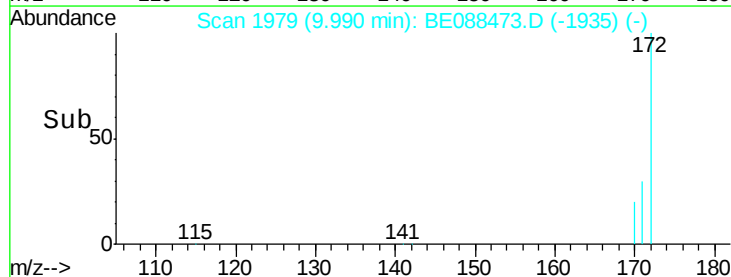
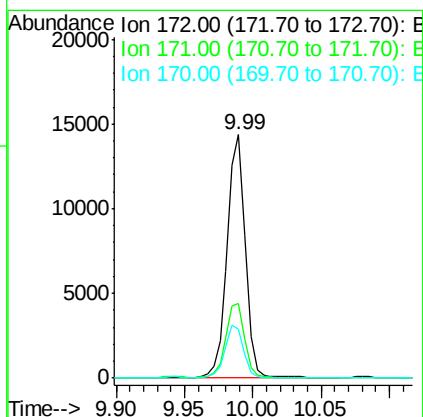
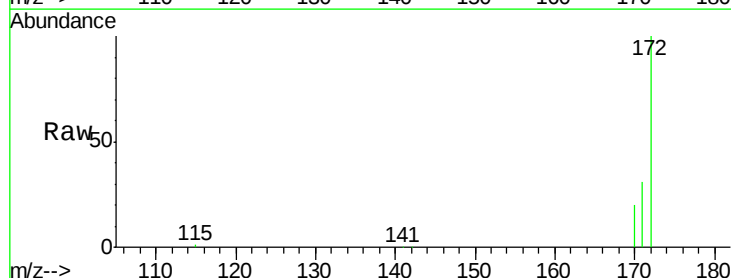
Tgt Ion:172 Resp: 12973

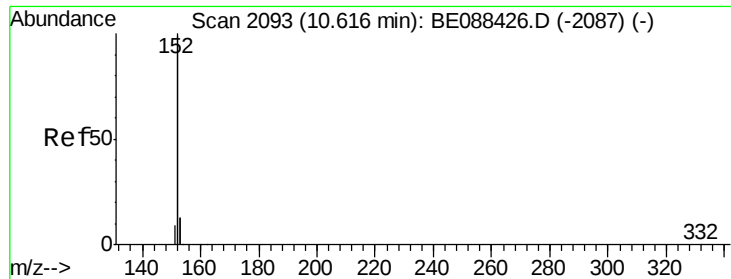
Ion Ratio Lower Upper

172 100

171 30.5 26.0 39.0

170 20.1 17.6 26.4





#9

Acenaphthylene

Concen: 1.04 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

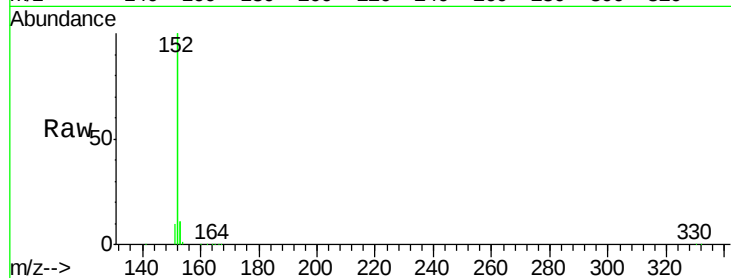
Tgt Ion:152 Resp: 74915

Ion Ratio Lower Upper

152 100

151 5.9 4.4 6.6

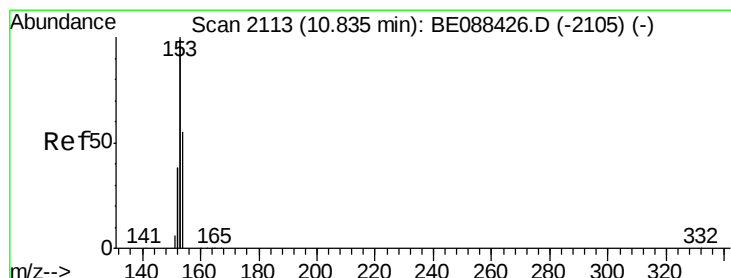
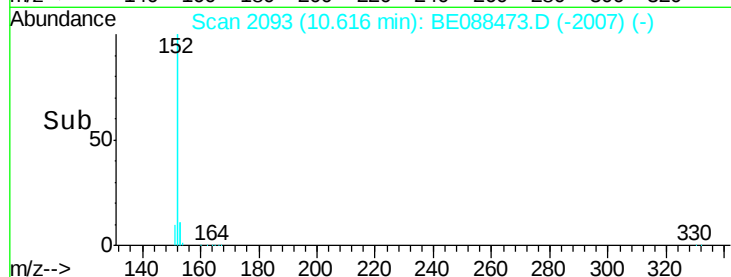
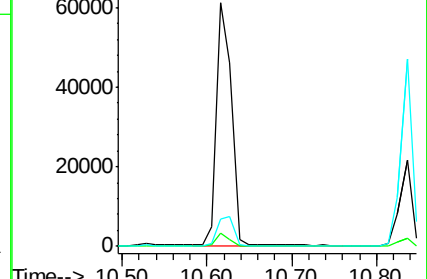
153 13.1 10.5 15.7



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: 1.01 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

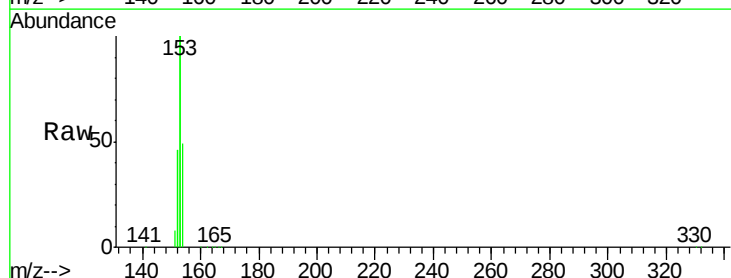
Tgt Ion:154 Resp: 10713

Ion Ratio Lower Upper

154 100

153 406.7 324.3 486.5

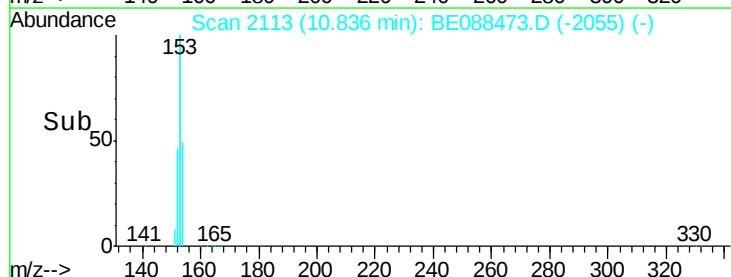
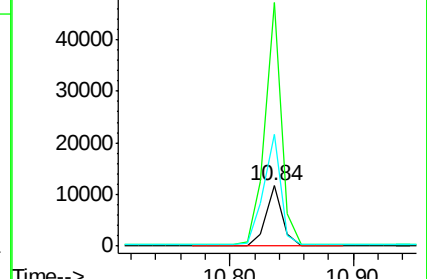
152 195.9 154.9 232.3

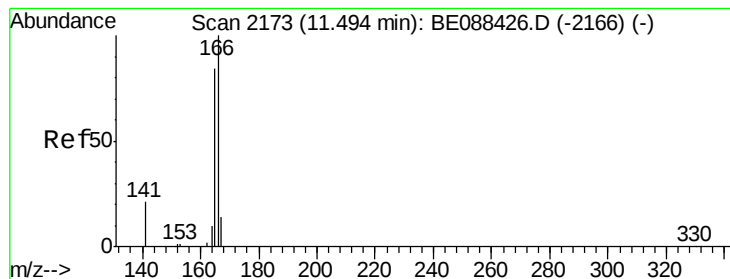


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 1.07 ng

RT: 11.49 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

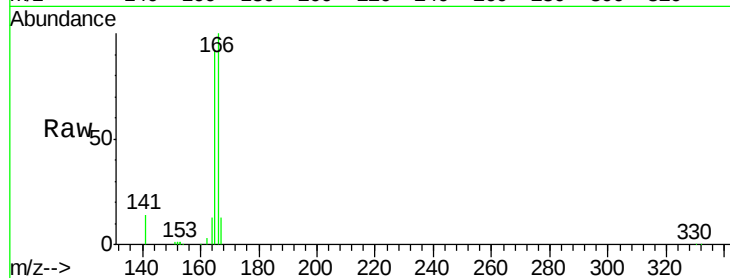
Tgt Ion:166 Resp: 12082

Ion Ratio Lower Upper

166 100

165 89.6 71.3 106.9

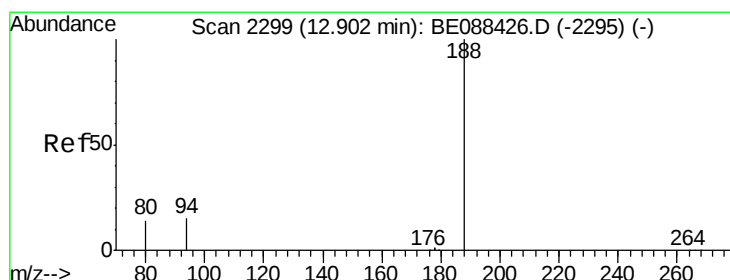
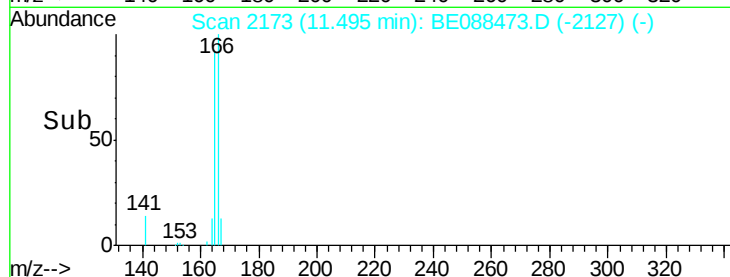
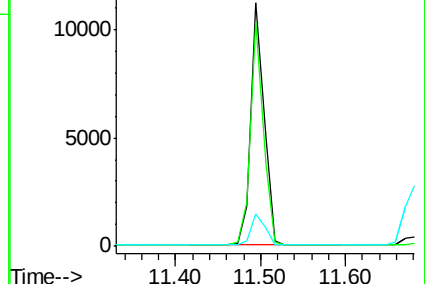
167 13.6 10.7 16.1



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.91 min Scan# 2300

Delta R.T. 0.01 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

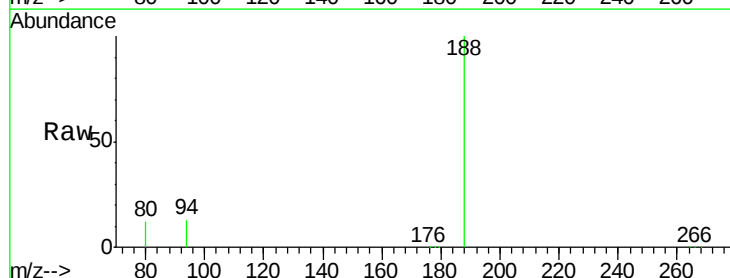
Tgt Ion:188 Resp: 85520

Ion Ratio Lower Upper

188 100

94 12.9 11.8 17.8

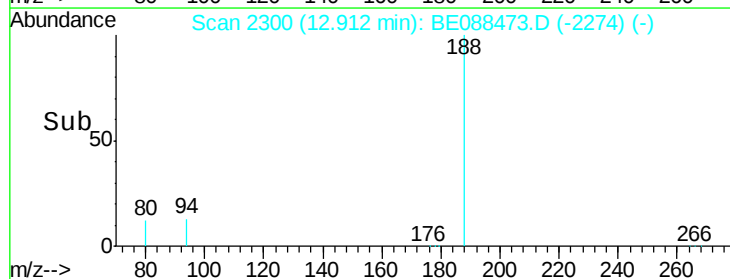
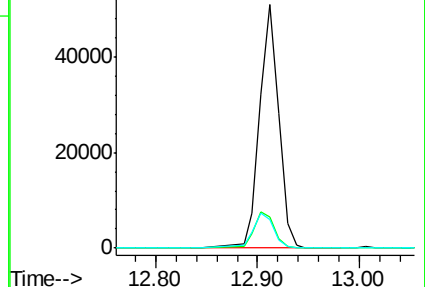
80 11.6 10.9 16.3

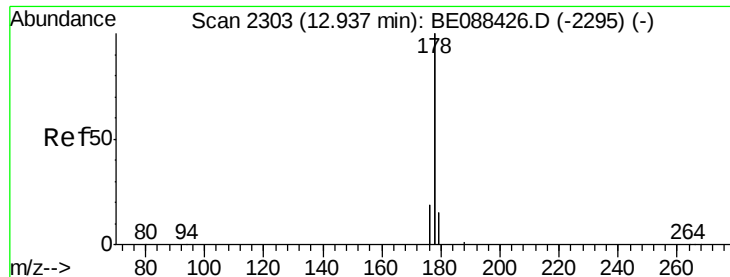


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

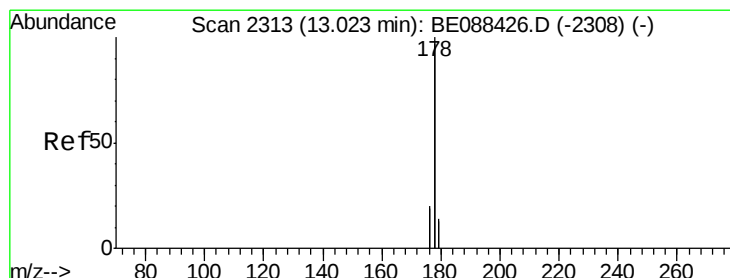
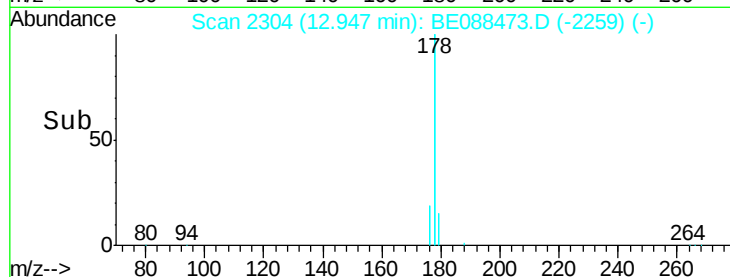
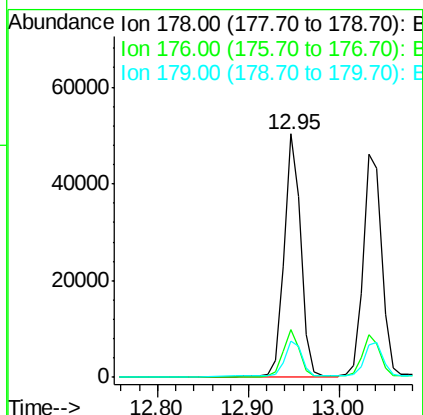
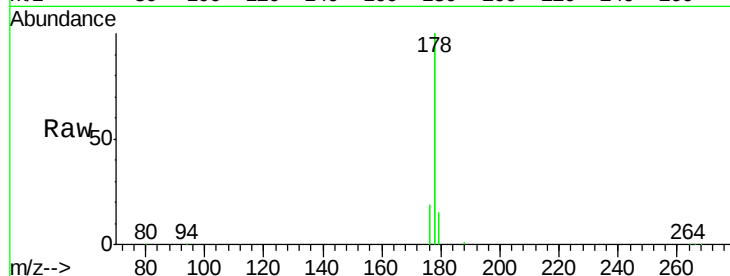




#13
Phenanthrene
Concen: 1.07 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088473.D
Acq: 2 Nov 2014 3:40

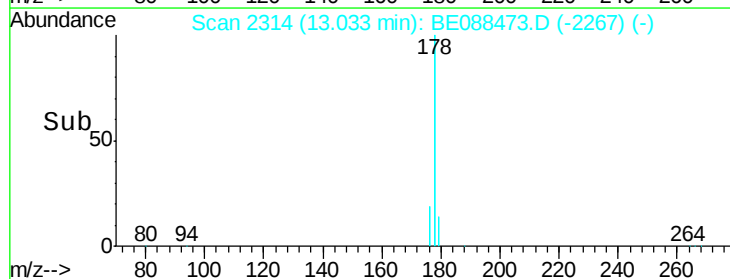
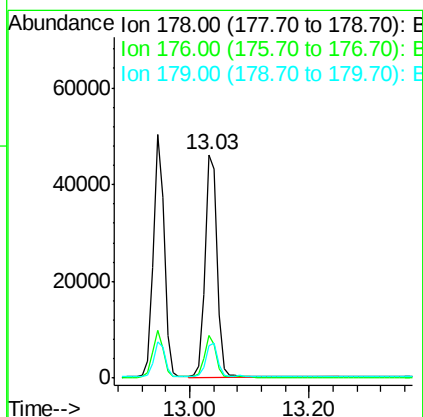
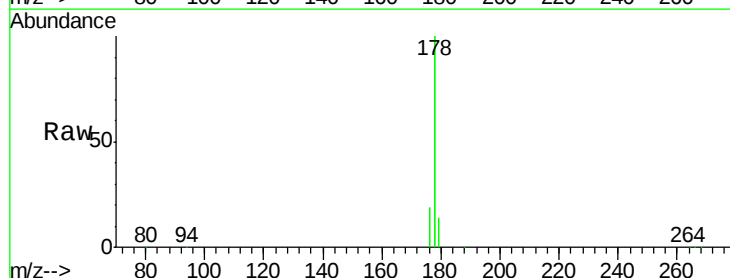
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

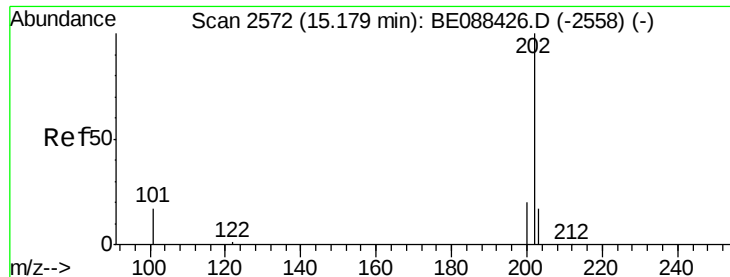
Tgt Ion:178 Resp: 83161
Ion Ratio Lower Upper
178 100
176 20.4 15.4 23.2
179 17.5 12.8 19.2



#14
Anthracene
Concen: 1.05 ng
RT: 13.03 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BE088473.D
Acq: 2 Nov 2014 3:40

Tgt Ion:178 Resp: 65812
Ion Ratio Lower Upper
178 100
176 18.1 15.0 22.4
179 14.8 12.5 18.7

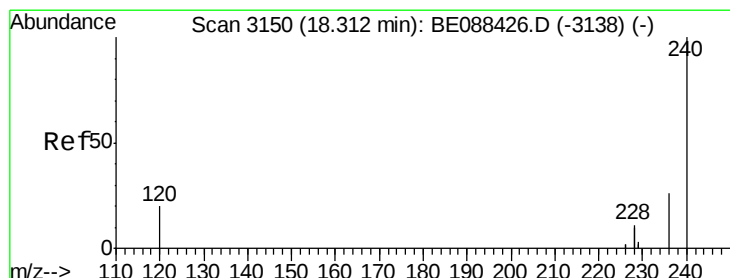
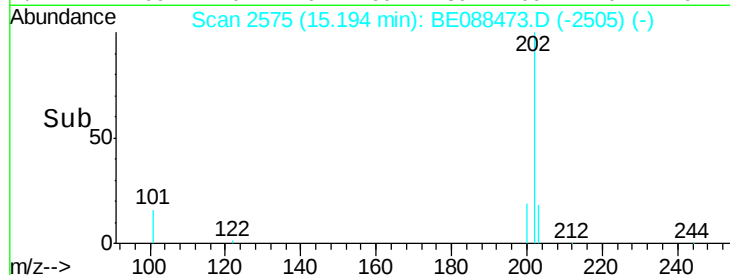
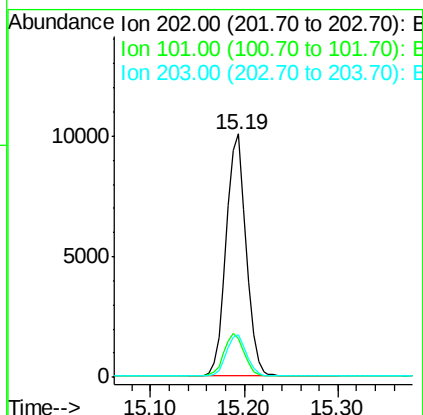
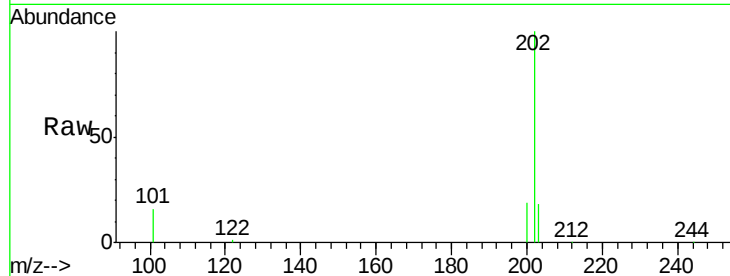




#15
Fluoranthene
Concen: 1.16 ng
RT: 15.19 min Scan# 2575
Delta R.T. 0.01 min
Lab File: BE088473.D
Acq: 2 Nov 2014 3:40

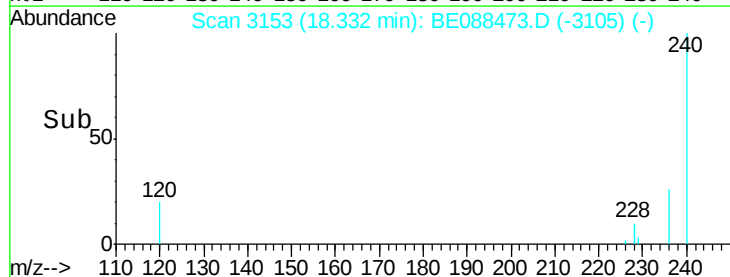
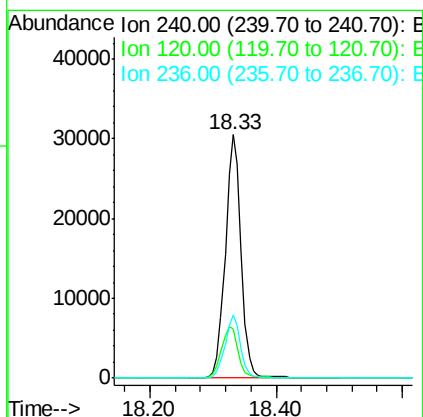
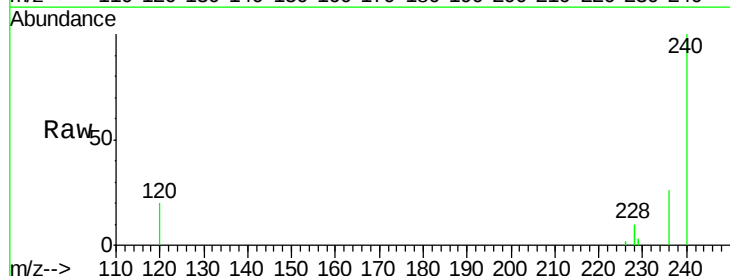
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

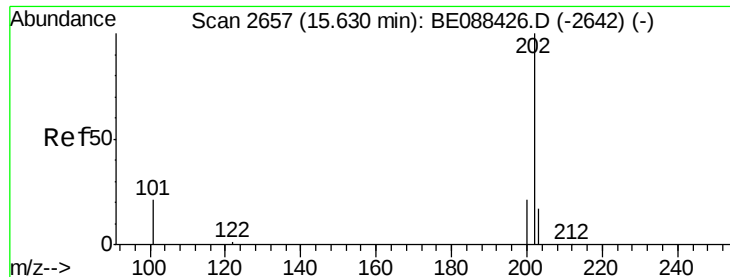
Tgt Ion: 202 Resp: 14688
Ion Ratio Lower Upper
202 100
101 17.6 14.3 21.5
203 17.0 13.6 20.4



#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.33 min Scan# 3153
Delta R.T. 0.02 min
Lab File: BE088473.D
Acq: 2 Nov 2014 3:40

Tgt Ion: 240 Resp: 52493
Ion Ratio Lower Upper
240 100
120 20.0 16.4 24.6
236 25.7 20.5 30.7

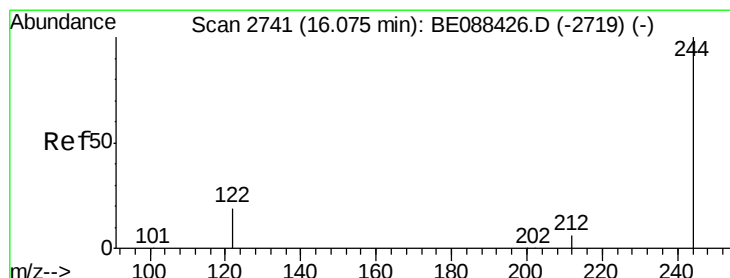
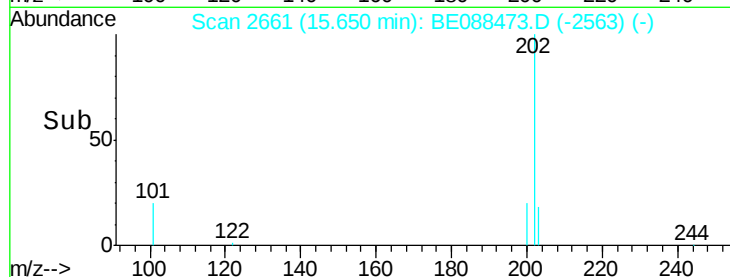
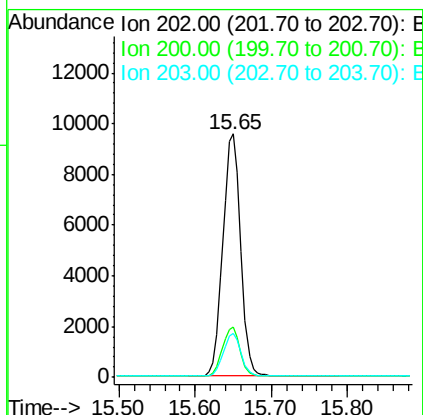
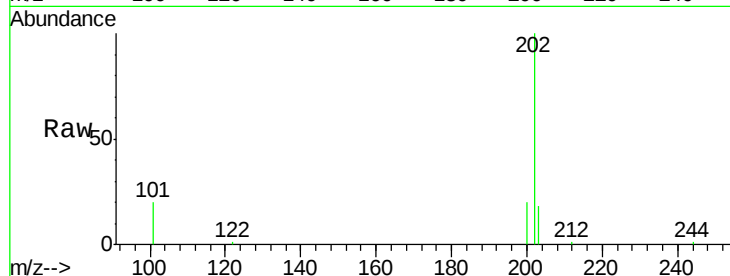




#17
 Pyrene
 Concen: 0.90 ng
 RT: 15.65 min Scan# 2661
 Delta R.T. 0.02 min
 Lab File: BE088473.D
 Acq: 2 Nov 2014 3:40

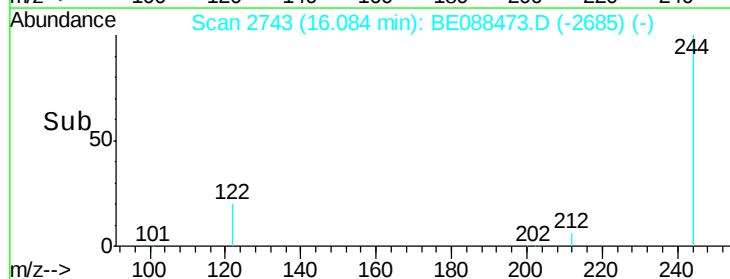
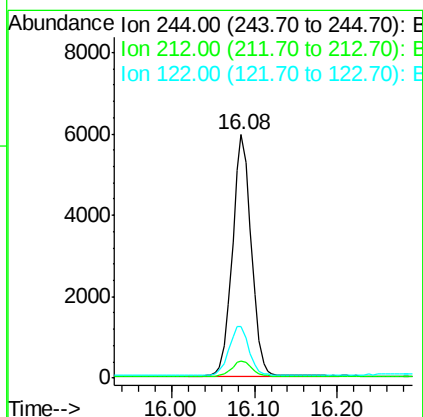
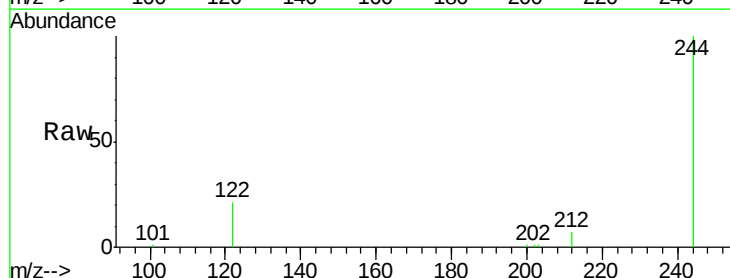
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

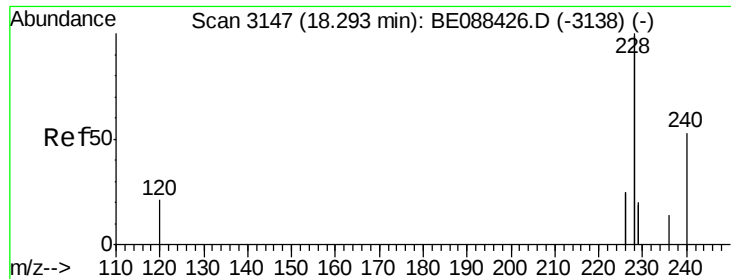
Tgt Ion: 202 Resp: 15423
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.1 24.1
 203 17.4 13.8 20.8



#18
 Terphenyl-d14
 Concen: 0.98 ng
 RT: 16.08 min Scan# 2743
 Delta R.T. 0.01 min
 Lab File: BE088473.D
 Acq: 2 Nov 2014 3:40

Tgt Ion: 244 Resp: 9409
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.5 8.3
 122 21.2 15.6 23.4





#19

Benzo(a)anthracene

Concen: 1.09 ng

RT: 18.31 min Scan# 3150

Delta R.T. 0.02 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

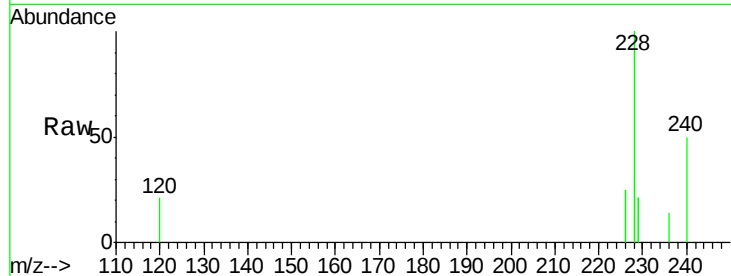
Tgt Ion:228 Resp: 53981

Ion Ratio Lower Upper

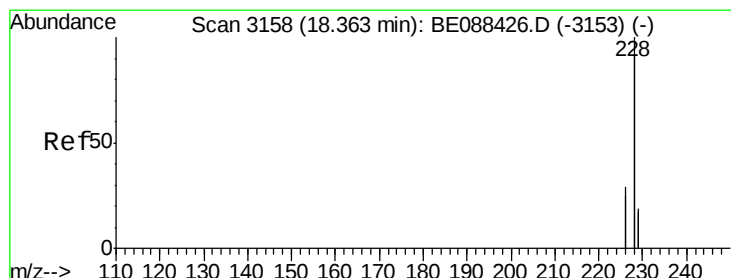
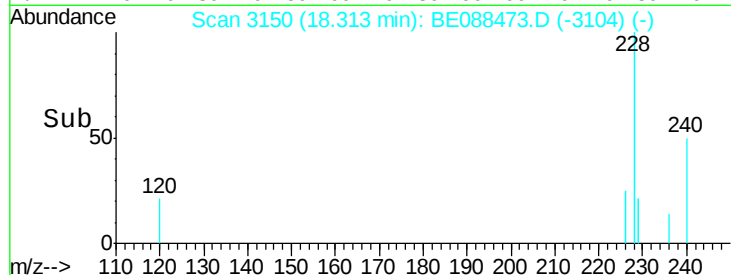
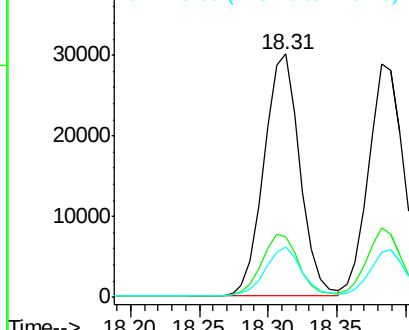
228 100

226 24.9 19.8 29.6

229 20.7 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: 1.04 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

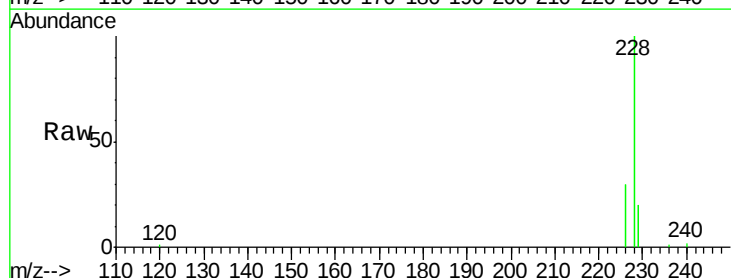
Tgt Ion:228 Resp: 50351

Ion Ratio Lower Upper

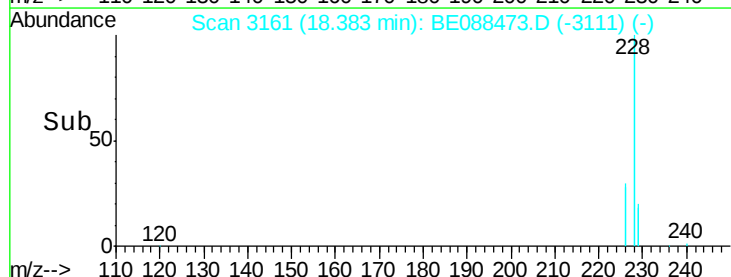
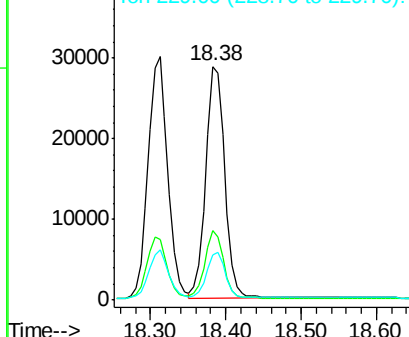
228 100

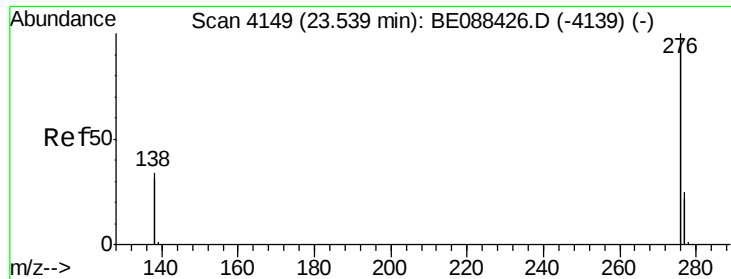
226 29.6 23.6 35.4

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: 1.06 ng

RT: 23.58 min Scan# 4155

Delta R.T. 0.04 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

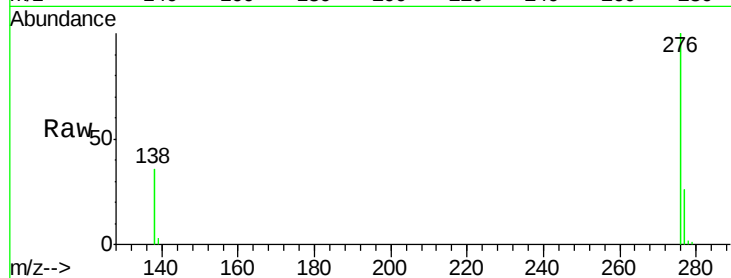
Tgt Ion:276 Resp: 47770

Ion Ratio Lower Upper

276 100

138 32.0 20.2 30.2#

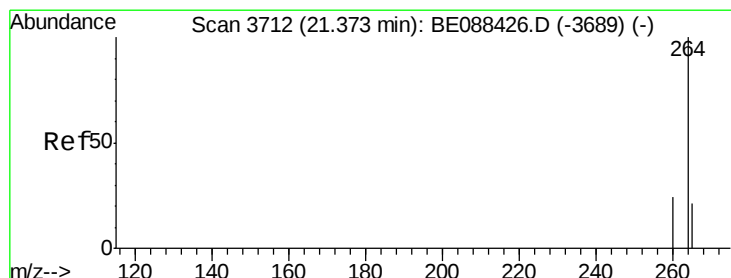
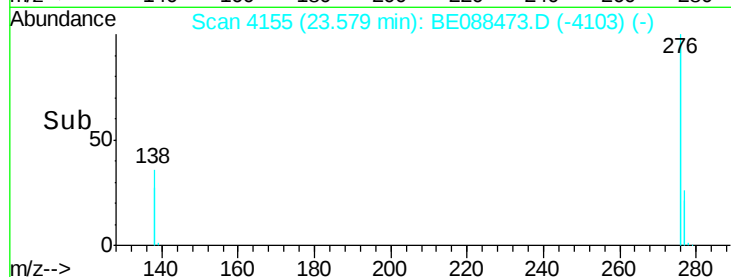
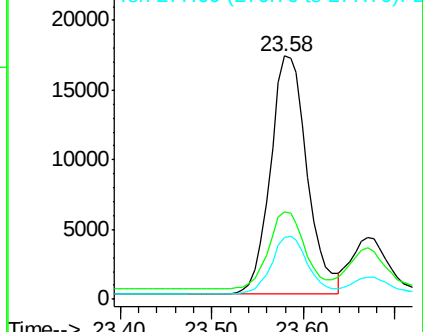
277 23.7 14.8 22.2#



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: 21.40 min Scan# 3717

Delta R.T. 0.02 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

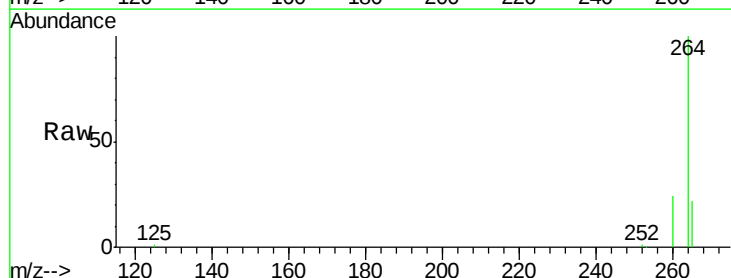
Tgt Ion:264 Resp: 52452

Ion Ratio Lower Upper

264 100

260 24.1 18.9 28.3

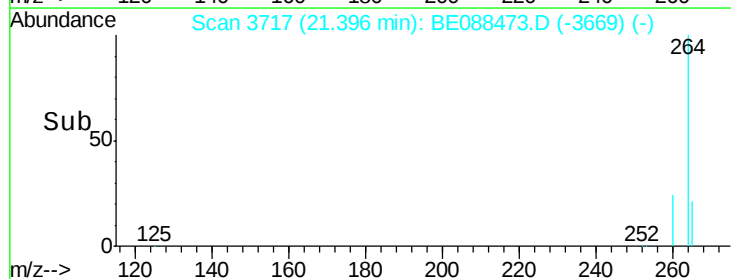
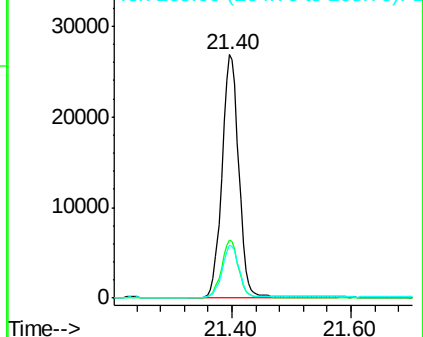
265 21.6 17.2 25.8

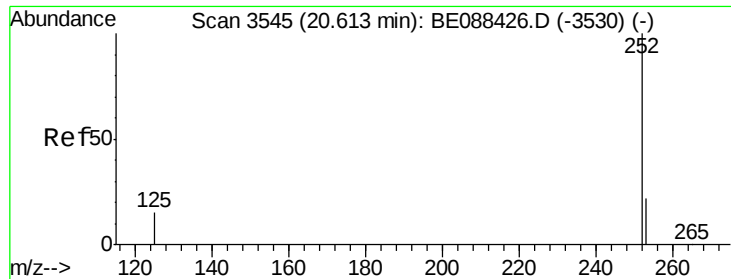


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

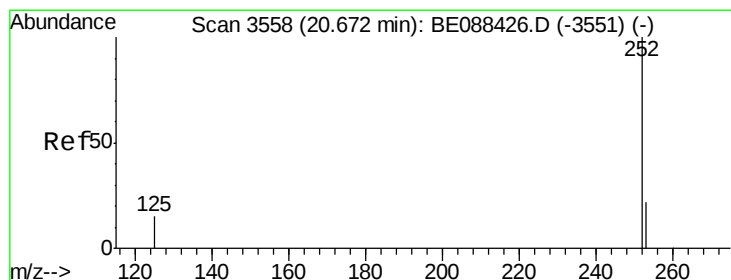
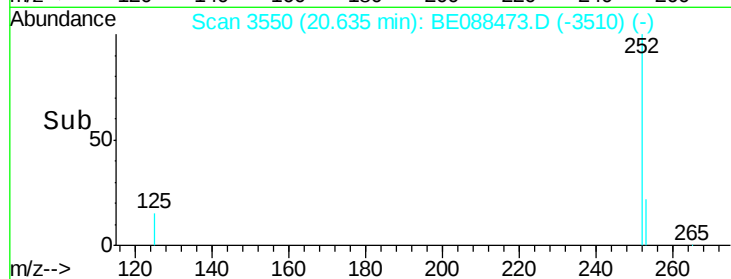
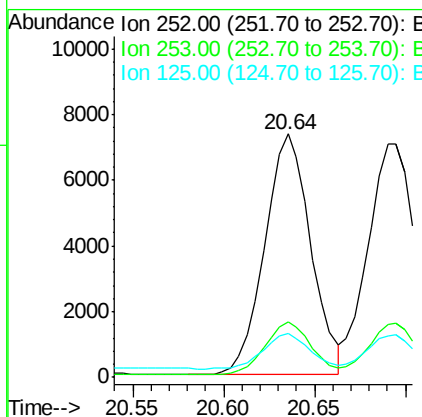
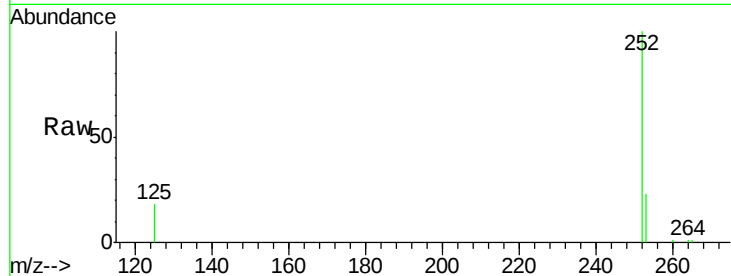




#23
Benzo(b)fluoranthene
Concen: 1.12 ng
RT: 20.64 min Scan# 3550
Delta R.T. 0.02 min
Lab File: BE088473.D
Acq: 2 Nov 2014 3:40

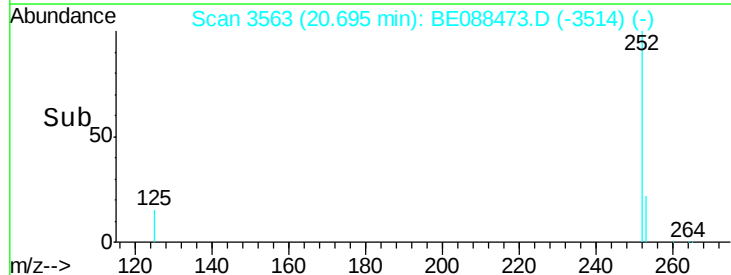
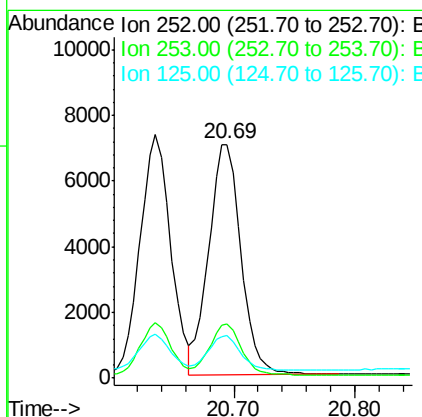
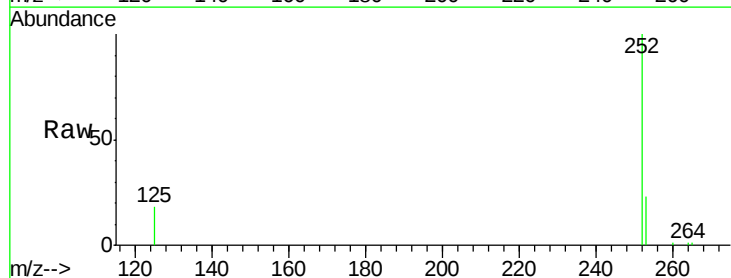
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

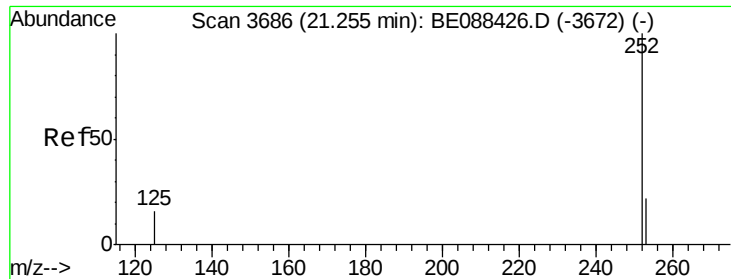
Tgt Ion: 252 Resp: 12904
Ion Ratio Lower Upper
252 100
253 22.6 17.8 26.8
125 18.1 12.3 18.5



#24
Benzo(k)fluoranthene
Concen: 1.03 ng
RT: 20.69 min Scan# 3563
Delta R.T. 0.02 min
Lab File: BE088473.D
Acq: 2 Nov 2014 3:40

Tgt Ion: 252 Resp: 13022
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 18.1 12.2 18.4





#25

Benzo(a)pyrene

Concen: 1.14 ng

RT: 21.28 min Scan# 3691

Delta R.T. 0.02 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

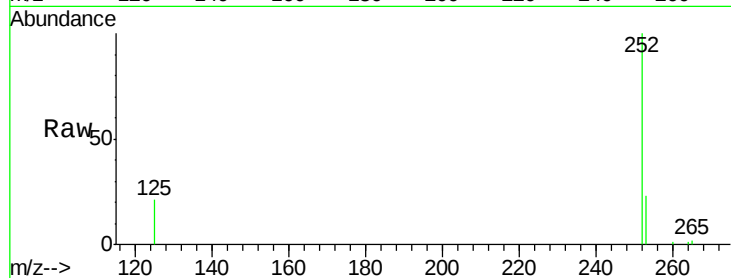
Tgt Ion: 252 Resp: 12548

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.4

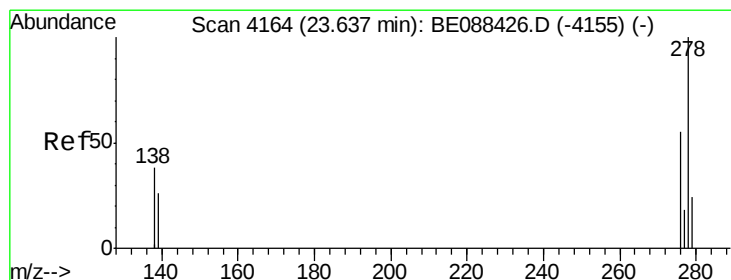
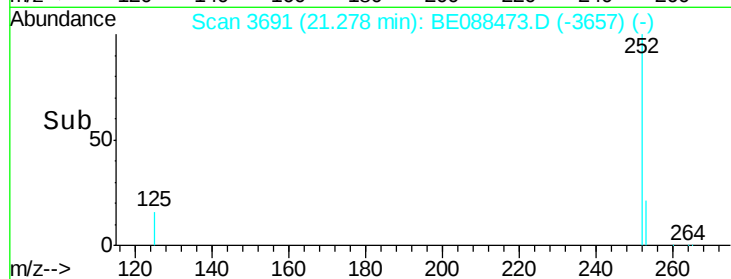
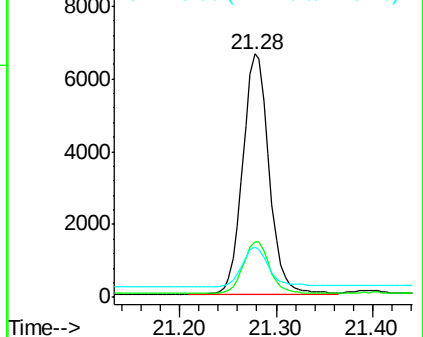
125 20.5 13.7 20.5



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: 1.16 ng

RT: 23.68 min Scan# 4170

Delta R.T. 0.04 min

Lab File: BE088473.D

Acq: 2 Nov 2014 3:40

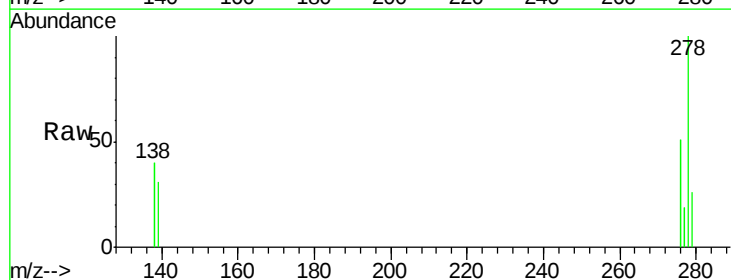
Tgt Ion: 278 Resp: 11940

Ion Ratio Lower Upper

278 100

139 30.5 22.1 33.1

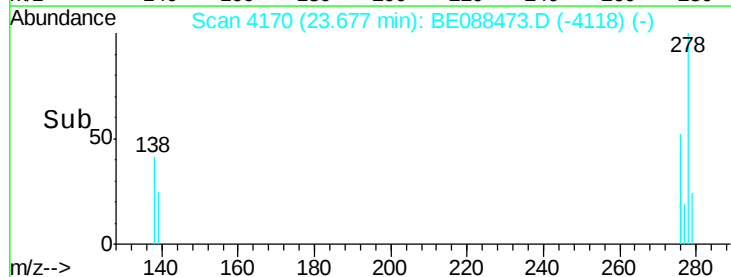
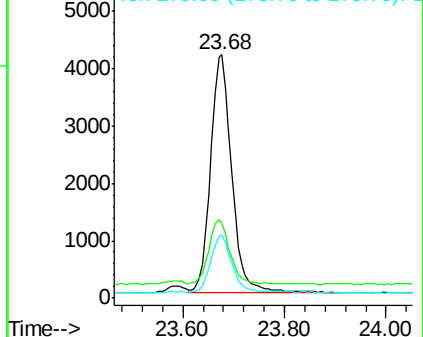
279 25.7 19.7 29.5

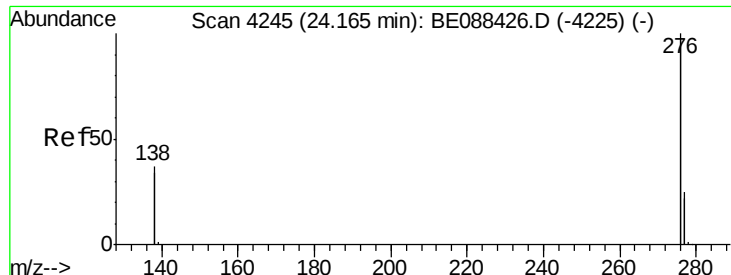


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.11 ng

RT: 24.21 min Scan# 4252

Delta R.T. 0.05 min

Lab File: BE088473.D

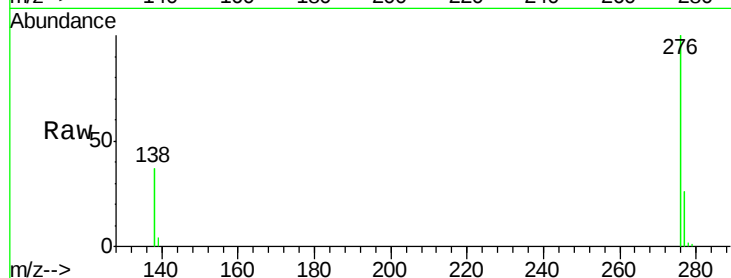
Acq: 2 Nov 2014 3:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



Tgt Ion: 276 Resp: 52225

Ion Ratio Lower Upper

276 100

277 25.6 19.8 29.6

138 37.1 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

