

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088122.D
 Acq On : 20 Oct 2014 23:29
 Operator : TP/JJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Quant Time: Oct 21 01:58:01 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 01:52:35 2014
 Response via : Initial Calibration

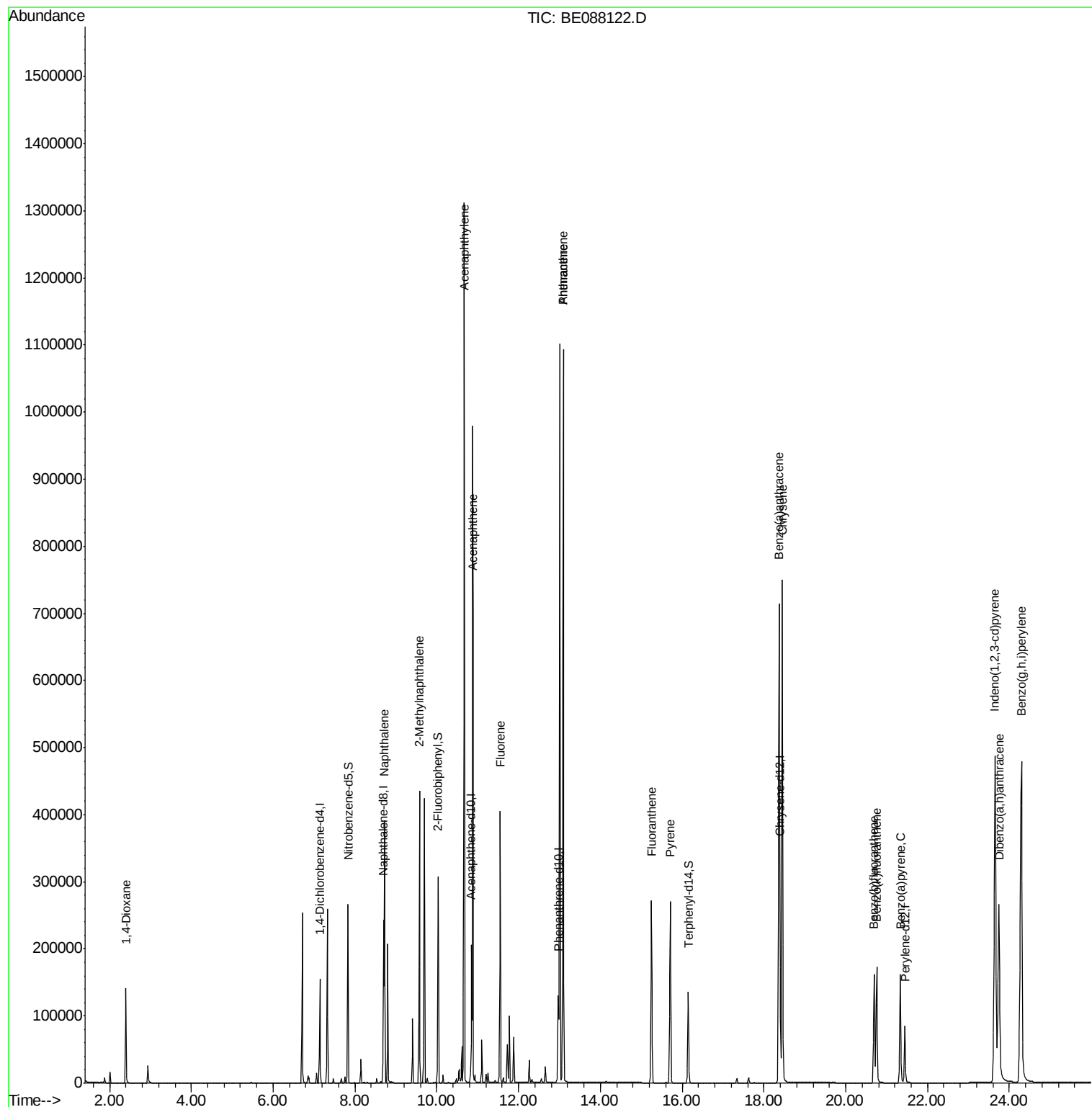
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	50177	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	188450	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	83168	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	155540	5.00	ng	0.00
16) Chrysene-d12	18.40	240	107937	5.00	ng	0.00
22) Perylene-d12	21.45	264	106531	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	144289	12.66	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	218466	9.51	ng	0.00
18) Terphenyl-d14	16.15	244	177325	10.58	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.40	88	73984	10.32	ng	99
5) Naphthalene	8.73	128	361328	9.46	ng	99
6) 2-Methylnaphthalene	9.58	142	221845	9.85	ng	96
9) Acenaphthylene	10.67	152	1200651	10.19	ng	100
10) Acenaphthene	10.89	154	179015	9.26	ng	98
11) Fluorene	11.55	166	193224	9.84	ng	99
13) Phenanthrene	13.09	178	1136145	7.83	ng	95
14) Anthracene	13.09	178	1136145	8.97	ng	100
15) Fluoranthene	15.25	202	269945	8.81	ng	100
17) Pyrene	15.71	202	282718	10.19	ng	100
19) Benzo(a)anthracene	18.37	228	944473	11.44	ng	100
20) Chrysene	18.45	228	902873	8.96	ng	98
21) Indeno(1,2,3-cd)pyrene	23.65	276	902330	10.99	ng	# 88
23) Benzo(b)fluoranthene	20.70	252	245574	12.32	ng	99
24) Benzo(k)fluoranthene	20.75	252	254057	9.14	ng	99
25) Benzo(a)pyrene	21.34	252	235947	13.70	ng	98
26) Dibenzo(a,h)anthracene	23.75	278	231497	12.70	ng	97
27) Benzo(g,h,i)perylene	24.30	276	996560	11.35	ng	97

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

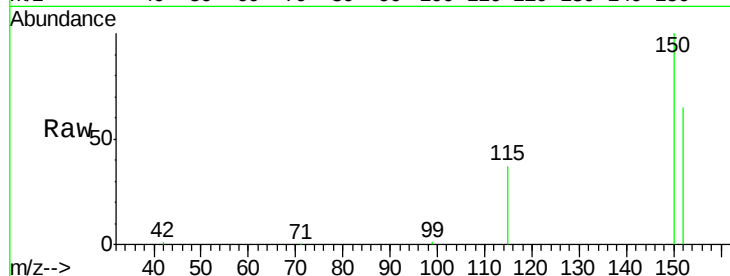
Tgt Ion: 152 Resp: 50177

Ion Ratio Lower Upper

152 100

150 154.8 129.2 193.8

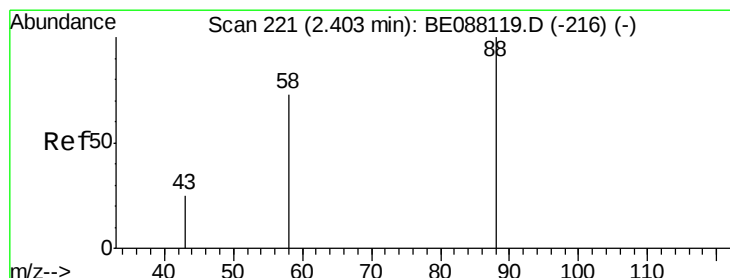
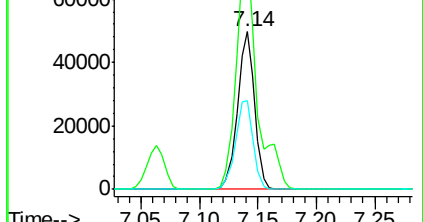
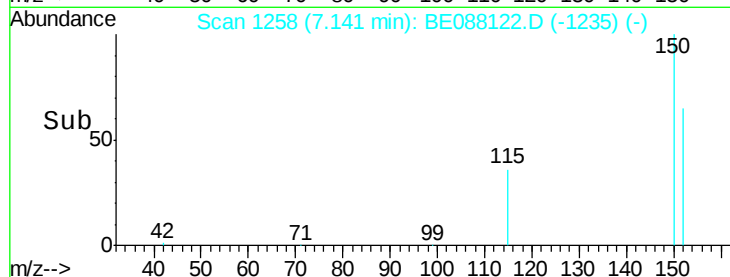
115 56.6 49.3 73.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 10.32 ng

RT: 2.40 min Scan# 220

Delta R.T. -0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

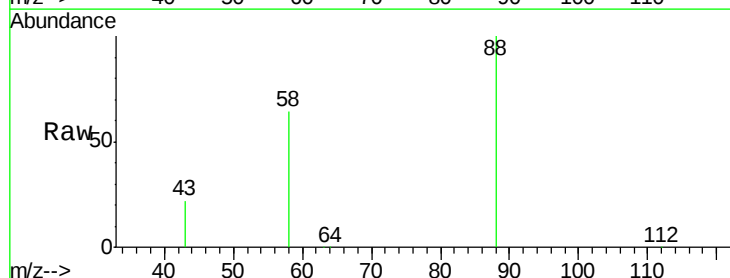
Tgt Ion: 88 Resp: 73984

Ion Ratio Lower Upper

88 100

58 74.1 59.5 89.3

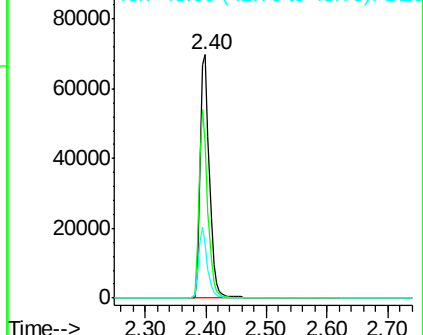
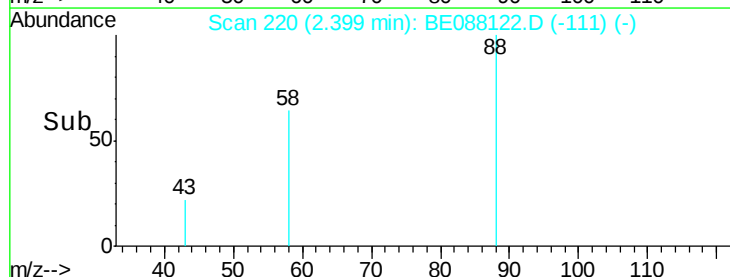
43 27.4 21.2 31.8

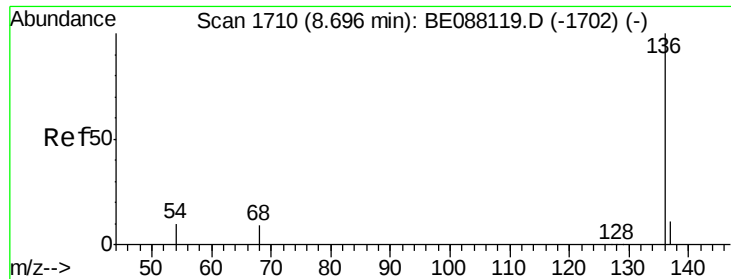


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

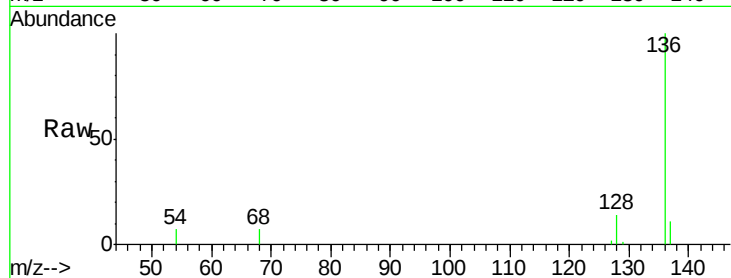
Tgt Ion: 136 Resp: 188450

Ion Ratio Lower Upper

136 100

137 11.1 8.6 12.8

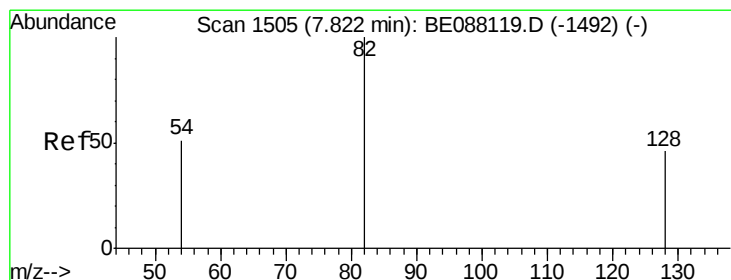
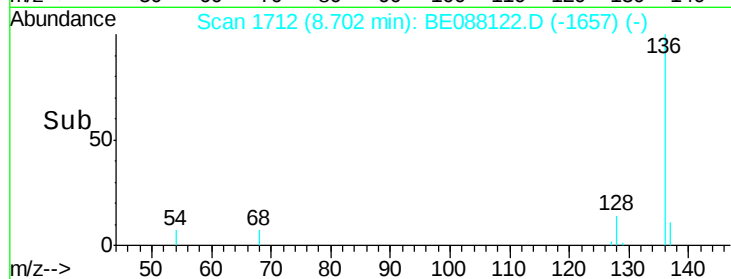
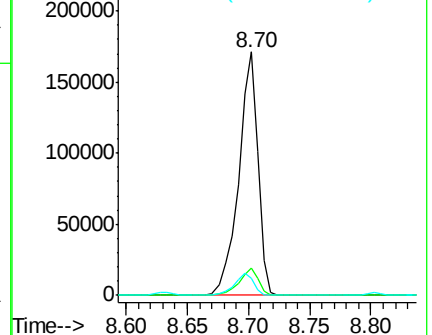
54 6.9 7.7 11.5#



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: 12.66 ng

RT: 7.83 min Scan# 1508

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

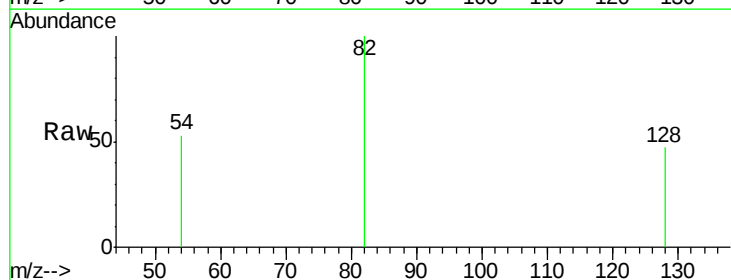
Tgt Ion: 82 Resp: 144289

Ion Ratio Lower Upper

82 100

128 47.2 37.1 55.7

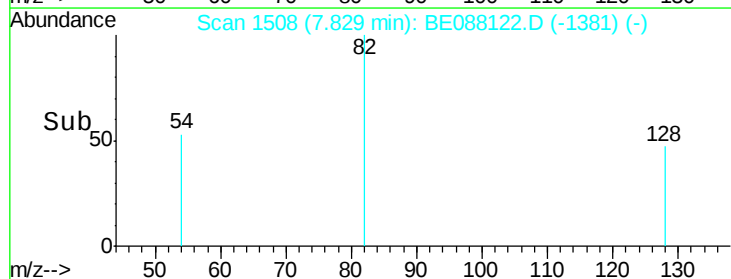
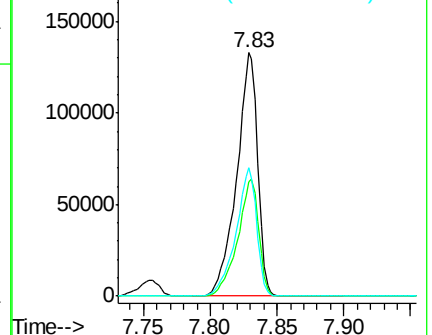
54 52.9 41.1 61.7

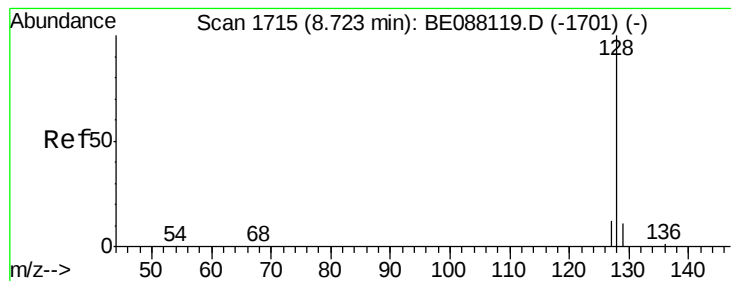


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 9.46 ng

RT: 8.73 min Scan# 1717

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

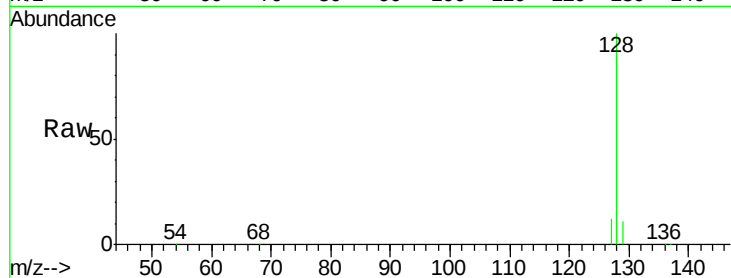
Tgt Ion:128 Resp: 361328

Ion Ratio Lower Upper

128 100

129 11.4 8.9 13.3

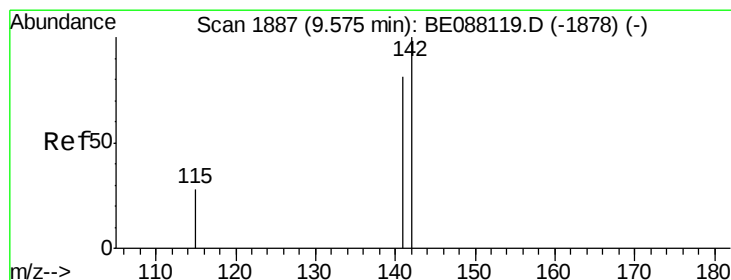
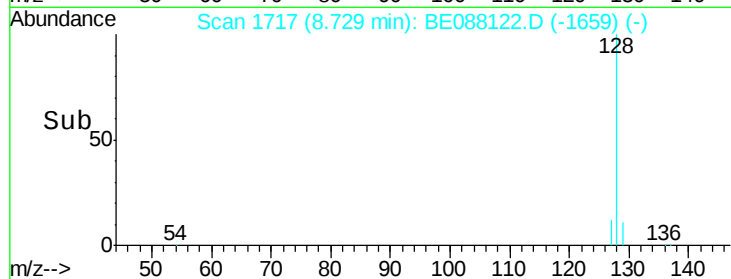
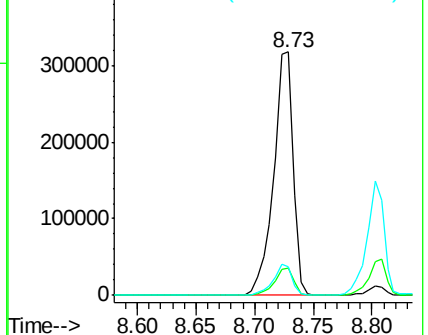
127 11.5 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#6

2-Methylnaphthalene

Concen: 9.85 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

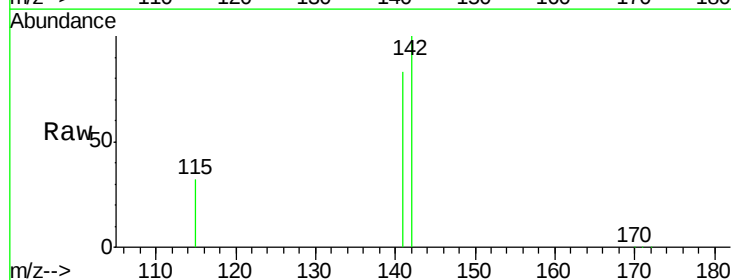
Tgt Ion:142 Resp: 221845

Ion Ratio Lower Upper

142 100

141 83.0 64.6 97.0

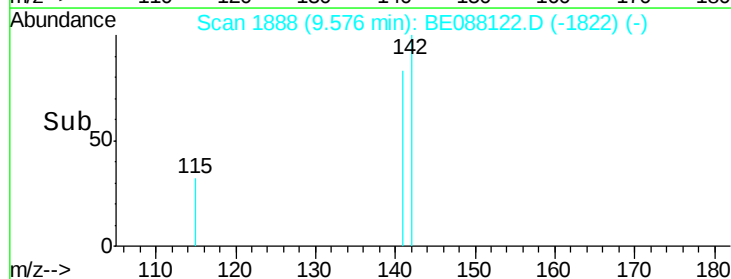
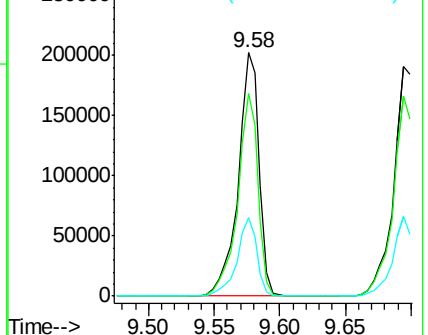
115 32.0 22.6 34.0

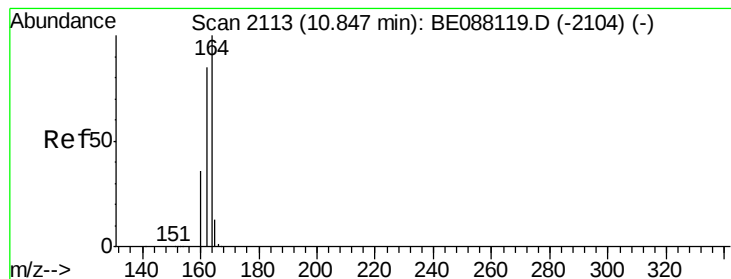


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

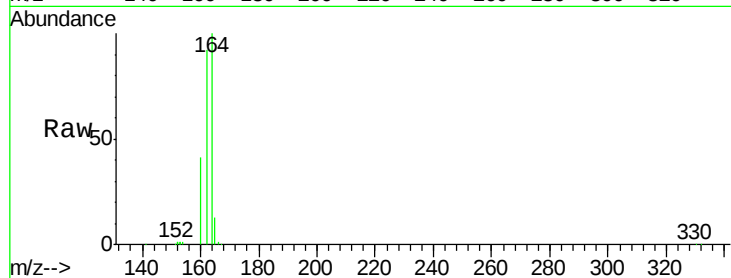
Tgt Ion:164 Resp: 83168

Ion Ratio Lower Upper

164 100

162 91.9 68.3 102.5

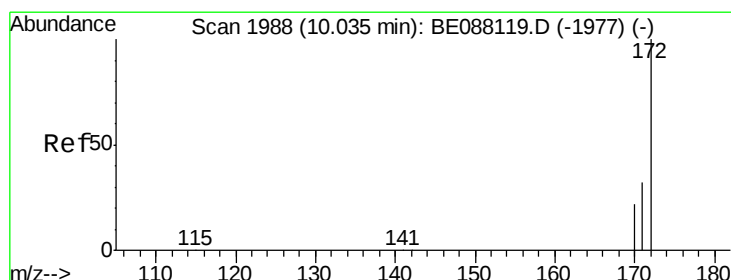
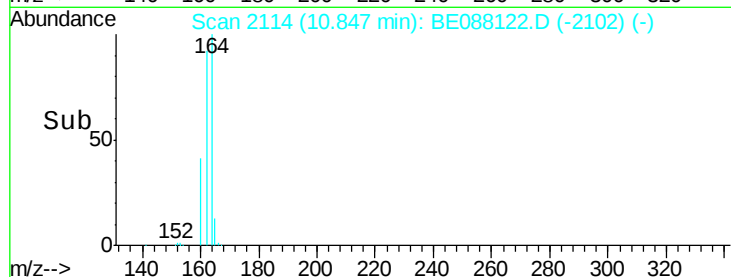
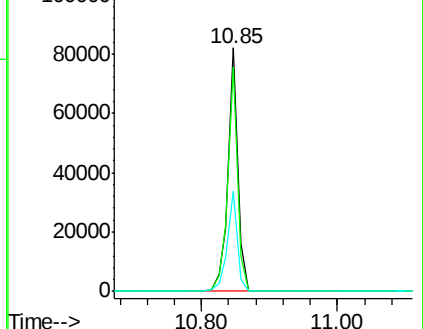
160 41.4 28.7 43.1



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 9.51 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

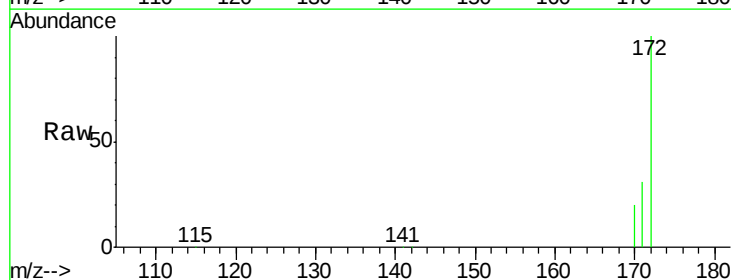
Tgt Ion:172 Resp: 218466

Ion Ratio Lower Upper

172 100

171 30.7 25.4 38.2

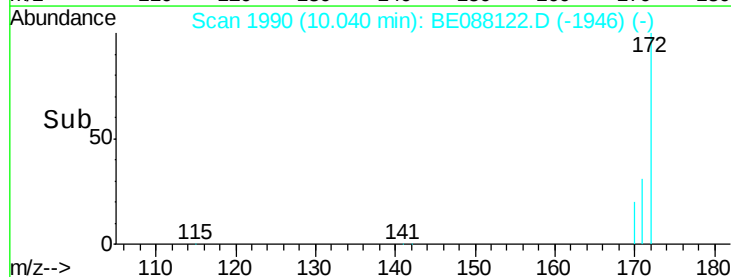
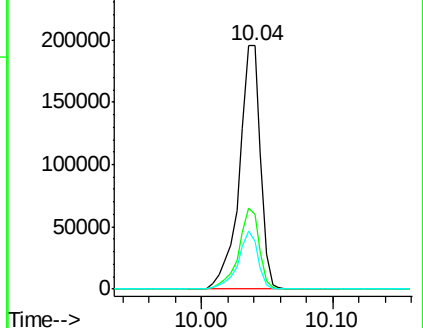
170 19.8 17.4 26.2

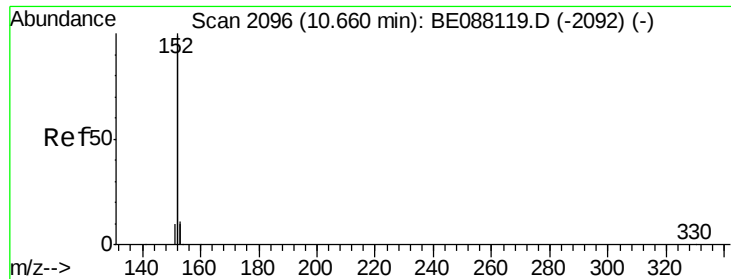


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 10.19 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

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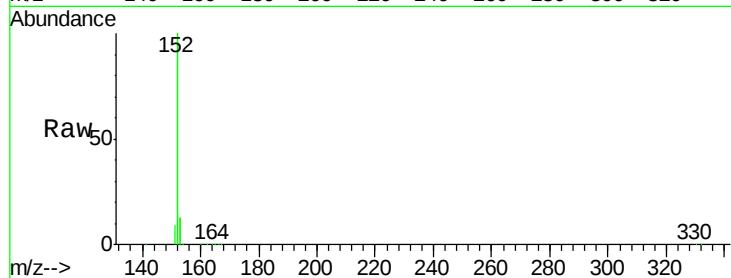
Tgt Ion:152 Resp: 1200651

Ion Ratio Lower Upper

152 100

151 4.7 3.7 5.5

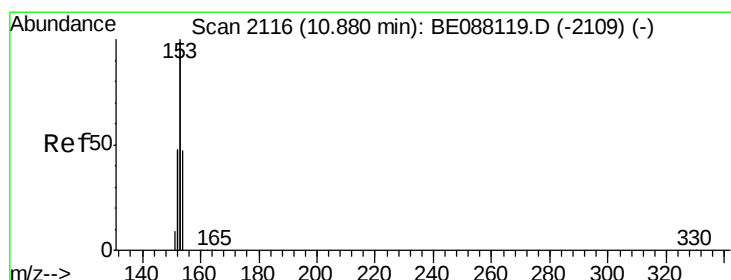
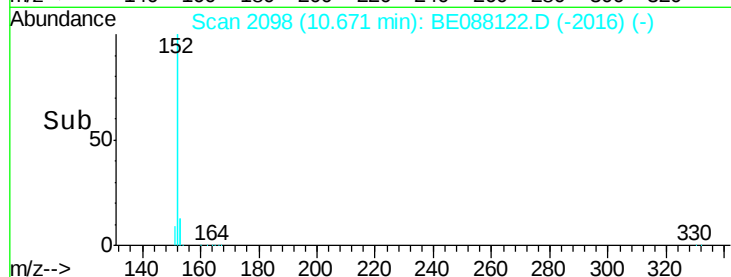
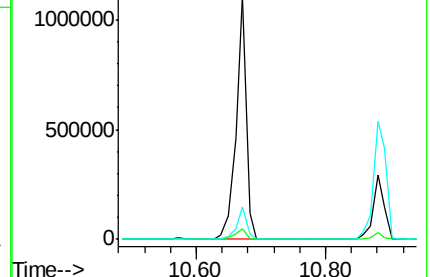
153 13.0 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 9.26 ng

RT: 10.89 min Scan# 2118

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

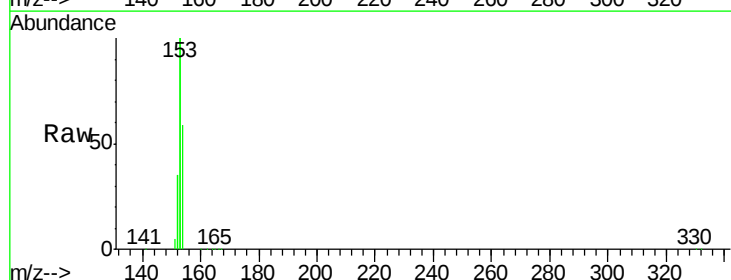
Tgt Ion:154 Resp: 179015

Ion Ratio Lower Upper

154 100

153 406.9 327.8 491.6

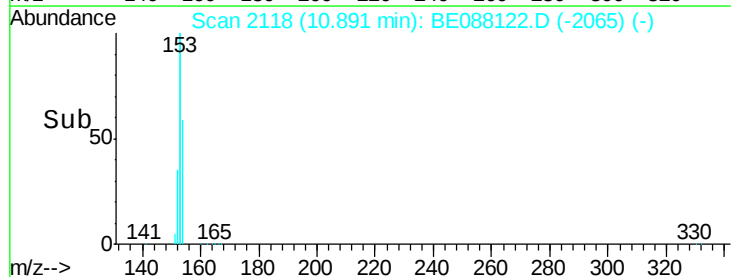
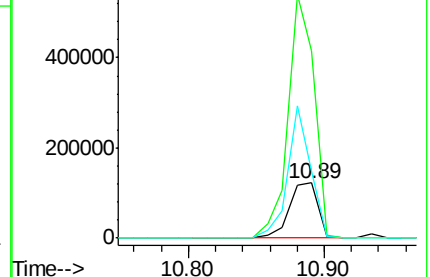
152 192.2 157.6 236.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 9.84 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

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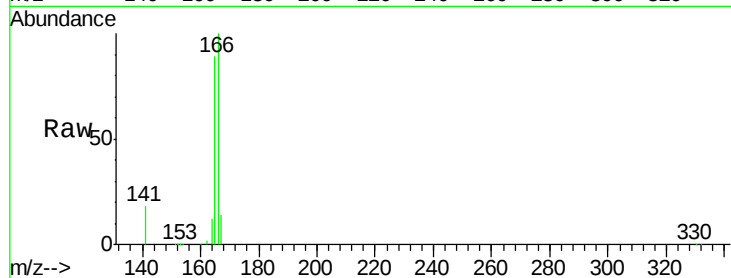
Tgt Ion:166 Resp: 193224

Ion Ratio Lower Upper

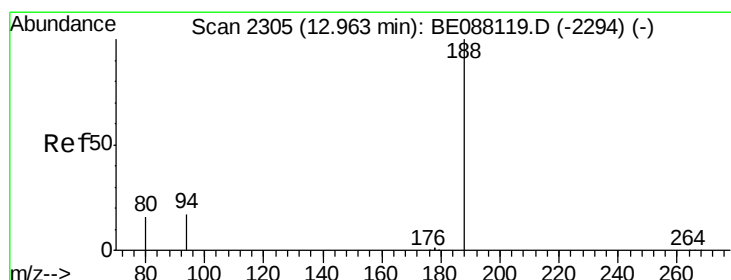
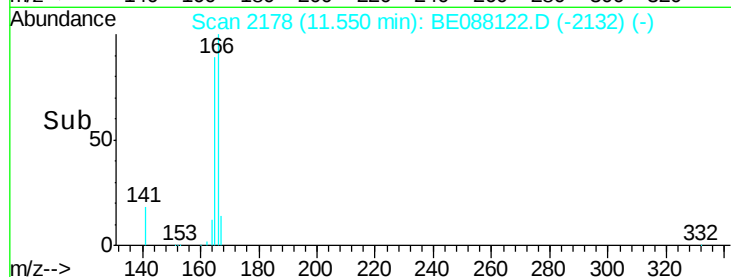
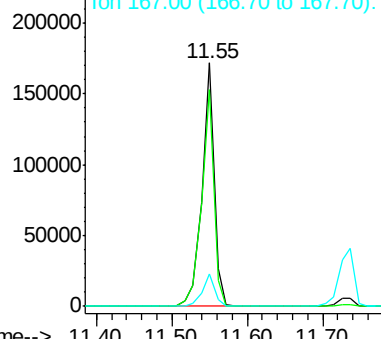
166 100

165 89.9 71.4 107.2

167 13.5 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

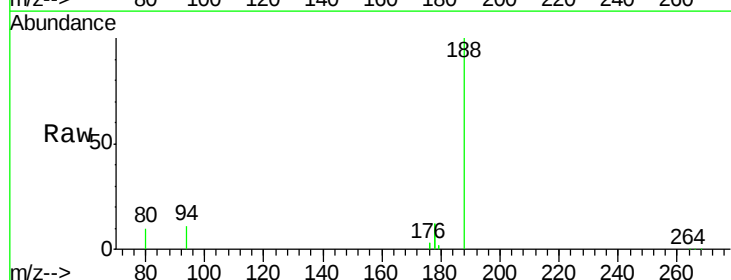
Tgt Ion:188 Resp: 155540

Ion Ratio Lower Upper

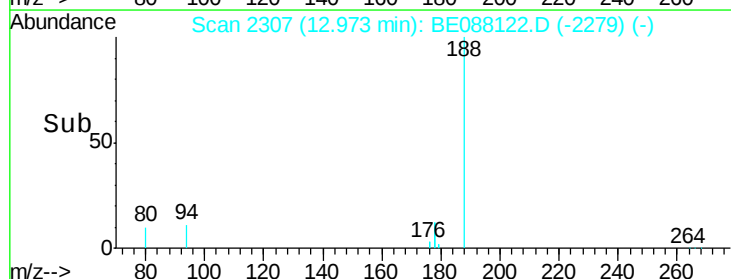
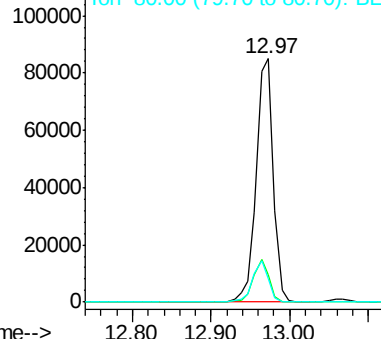
188 100

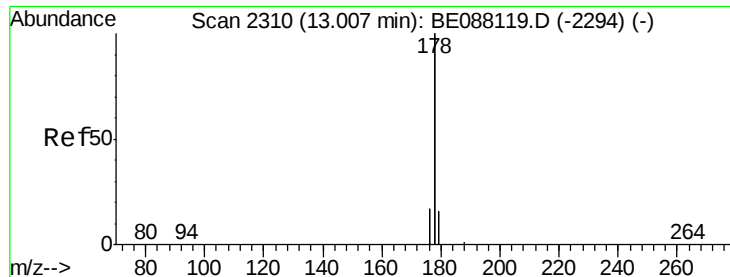
94 11.4 13.9 20.9#

80 9.9 12.9 19.3#



Abundance Ion 188.00 (187.70 to 188.70): E





#13

Phenanthrene

Concen: 7.83 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.09 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

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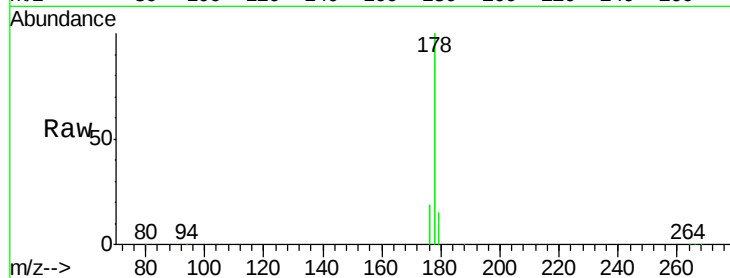
Tgt Ion:178 Resp: 1136145

Ion Ratio Lower Upper

178 100

176 18.1 12.5 18.7

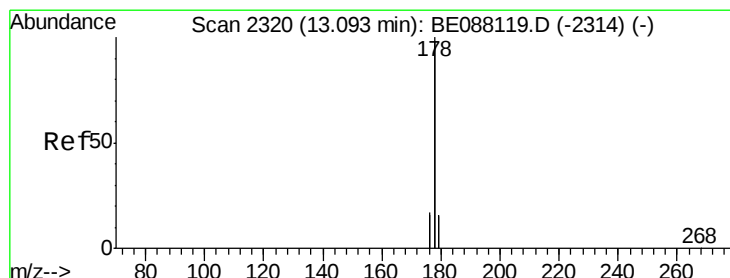
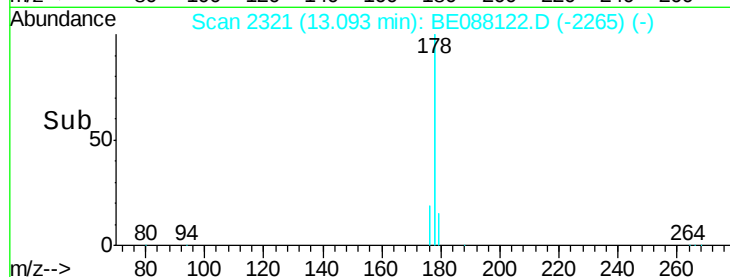
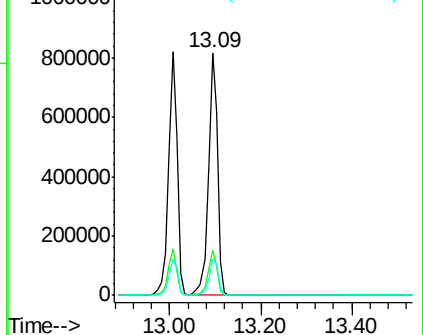
179 15.4 13.5 20.3



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: 8.97 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

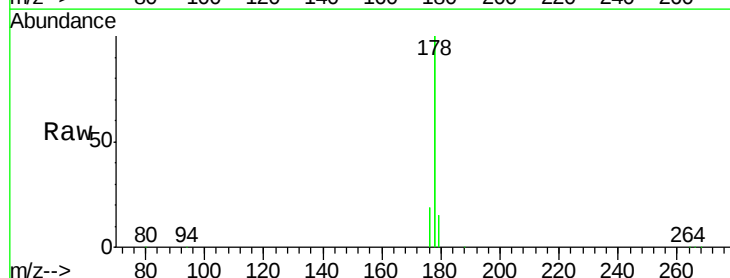
Tgt Ion:178 Resp: 1136145

Ion Ratio Lower Upper

178 100

176 18.1 14.6 21.8

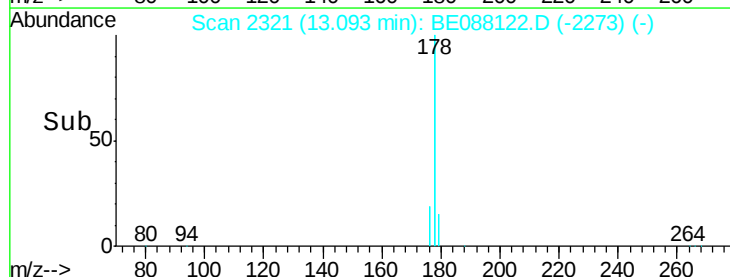
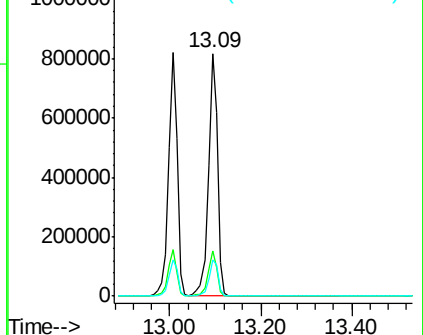
179 15.4 12.5 18.7

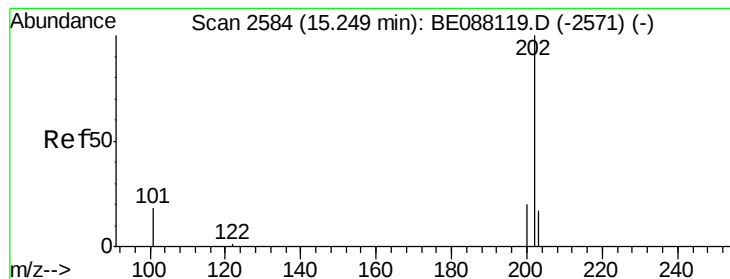


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 8.81 ng

RT: 15.25 min Scan# 2586

Delta R.T. 0.00 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

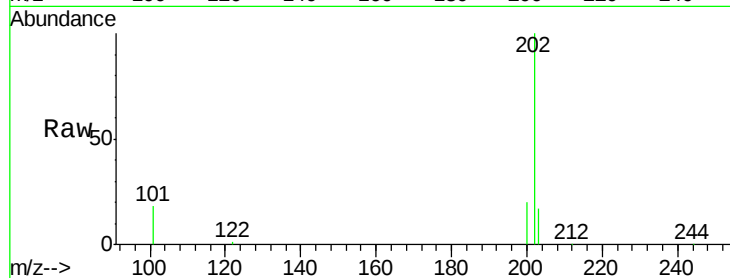
Tgt Ion: 202 Resp: 269945

Ion Ratio Lower Upper

202 100

101 18.5 14.8 22.2

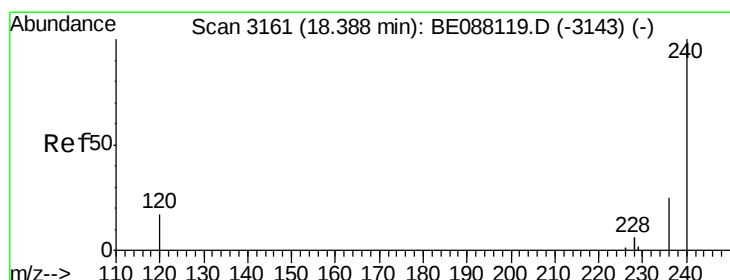
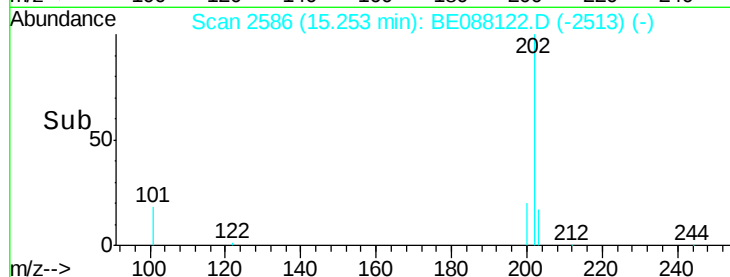
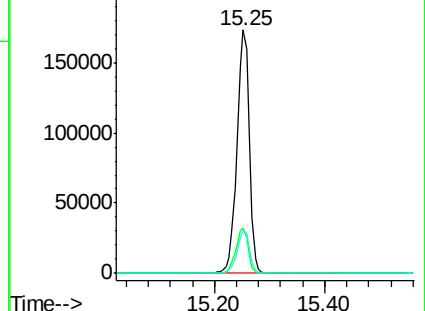
203 17.2 13.5 20.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

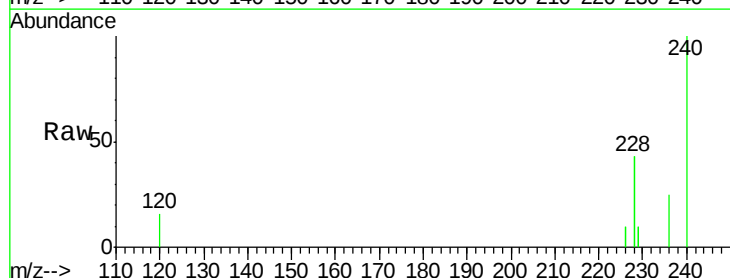
Tgt Ion: 240 Resp: 107937

Ion Ratio Lower Upper

240 100

120 16.2 13.9 20.9

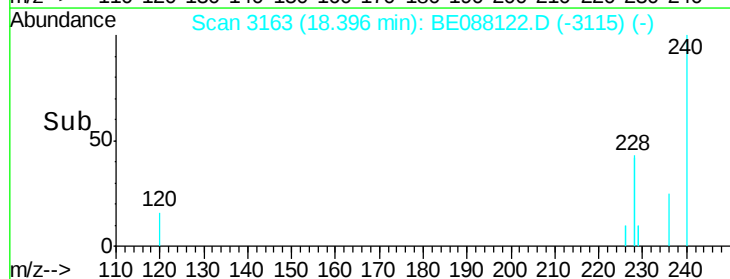
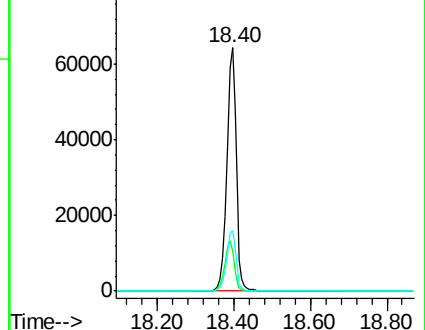
236 25.0 19.9 29.9

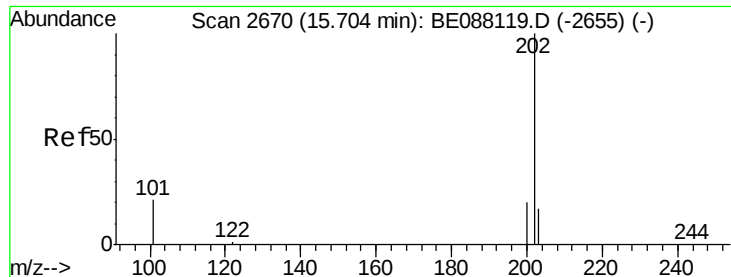


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

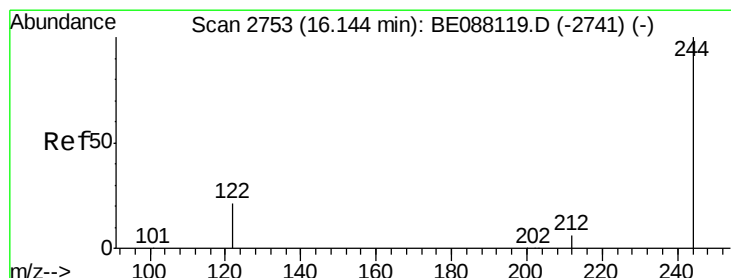
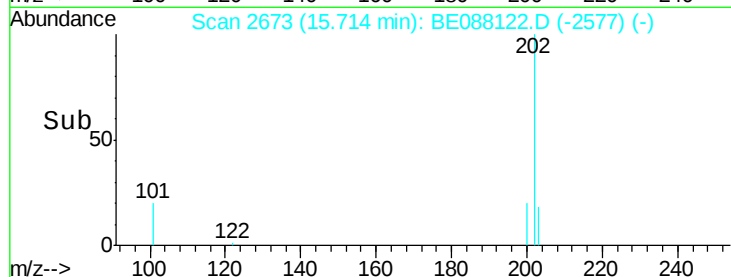
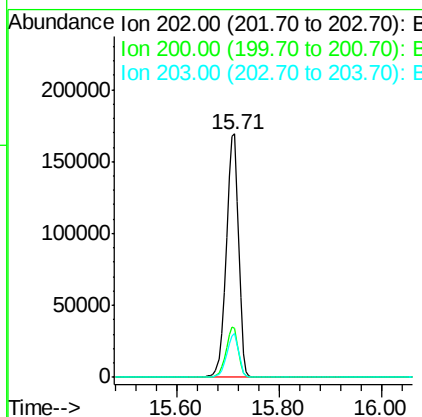
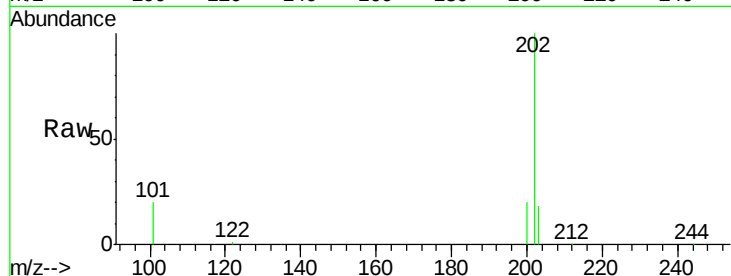




#17
 Pyrene
 Concen: 10.19 ng
 RT: 15.71 min Scan# 2673
 Delta R.T. 0.01 min
 Lab File: BE088122.D
 Acq: 20 Oct 2014 23:29

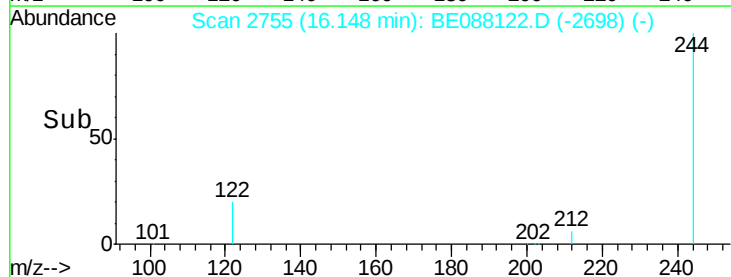
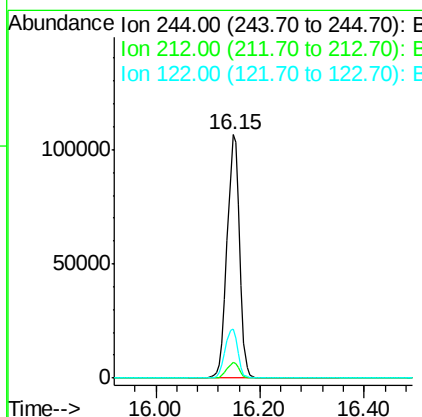
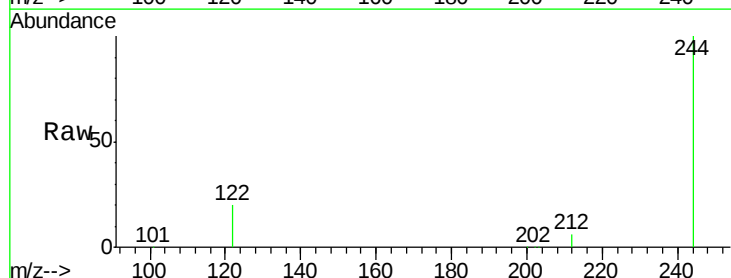
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion: 202 Resp: 282718
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.1 24.1
 203 17.5 13.9 20.9



#18
 Terphenyl-d14
 Concen: 10.58 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088122.D
 Acq: 20 Oct 2014 23:29

Tgt Ion: 244 Resp: 177325
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.0
 122 20.4 17.5 26.3





#19

Benzo(a)anthracene

Concen: 11.44 ng

RT: 18.37 min Scan# 3159

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

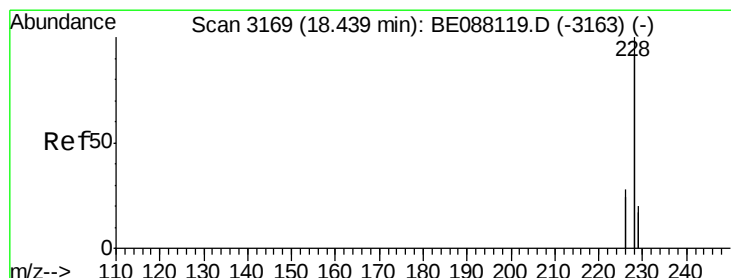
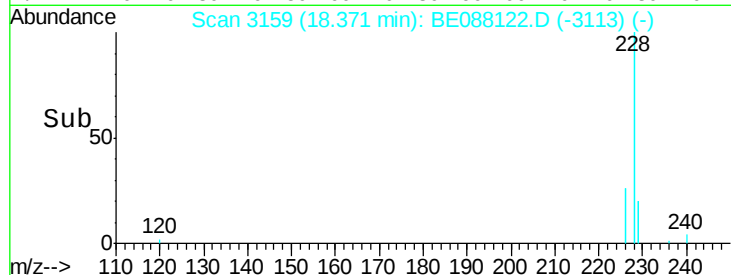
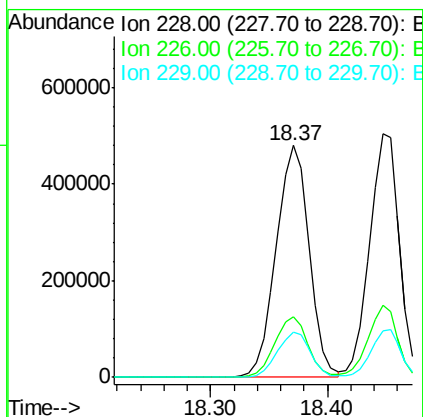
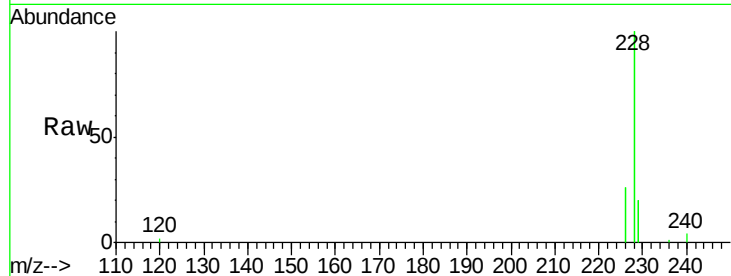
Tgt Ion:228 Resp: 944473

Ion Ratio Lower Upper

228 100

226 26.1 20.8 31.2

229 19.6 15.6 23.4



#20

Chrysene

Concen: 8.96 ng

RT: 18.45 min Scan# 3171

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

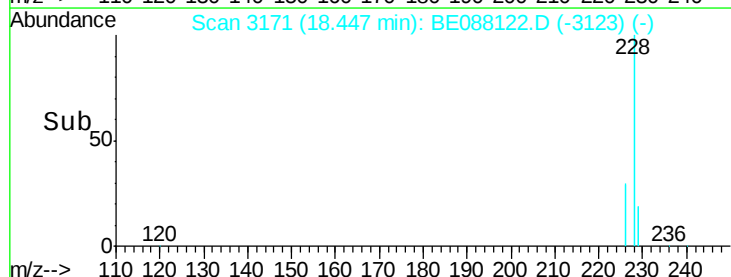
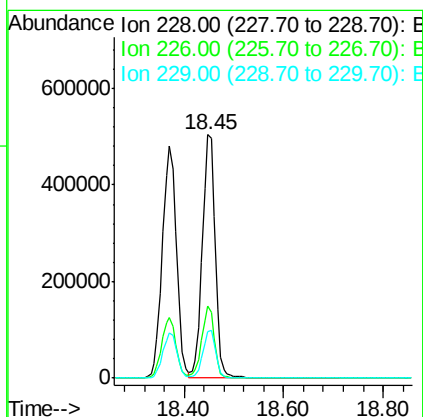
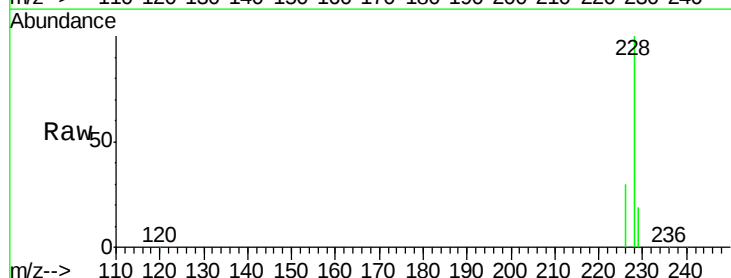
Tgt Ion:228 Resp: 902873

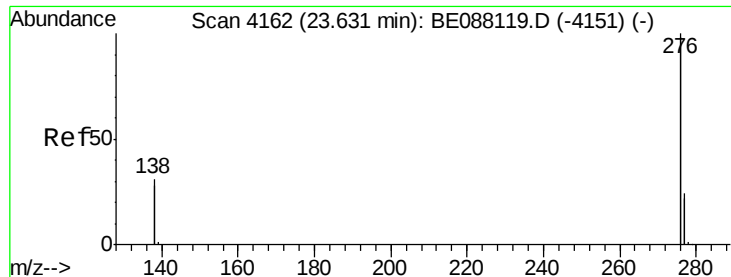
Ion Ratio Lower Upper

228 100

226 29.5 22.7 34.1

229 19.1 15.8 23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 10.99 ng

RT: 23.65 min Scan# 4166

Delta R.T. 0.02 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

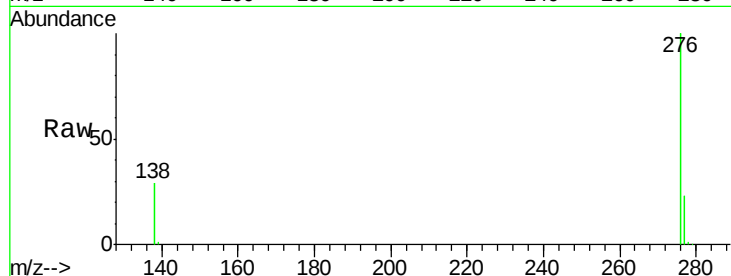
Tgt Ion: 276 Resp: 902330

Ion Ratio Lower Upper

276 100

138 29.1 18.5 27.7#

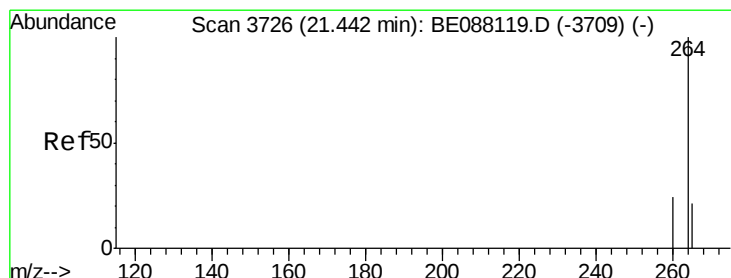
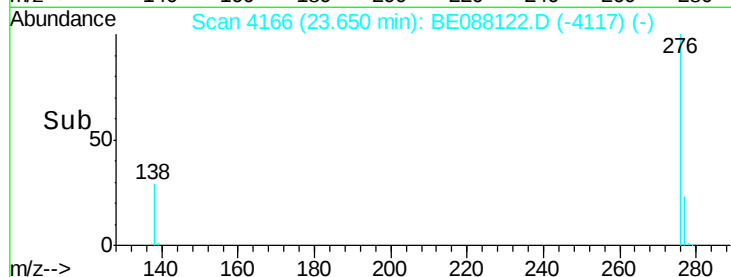
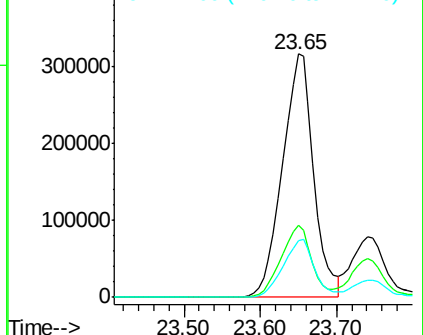
277 23.8 14.6 21.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.45 min Scan# 3728

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

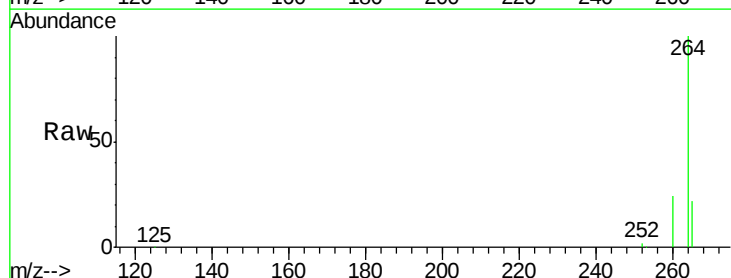
Tgt Ion: 264 Resp: 106531

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

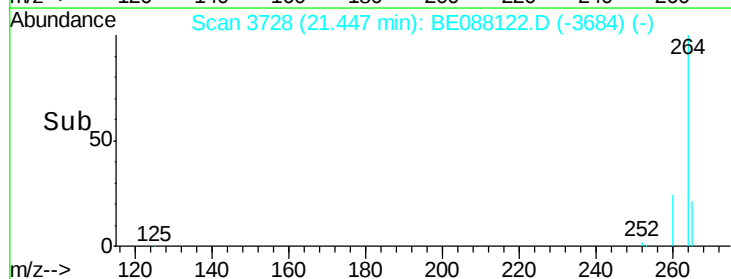
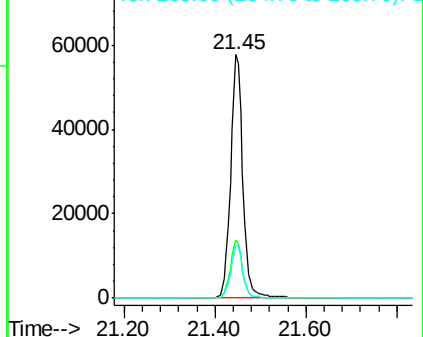
265 21.6 17.2 25.8

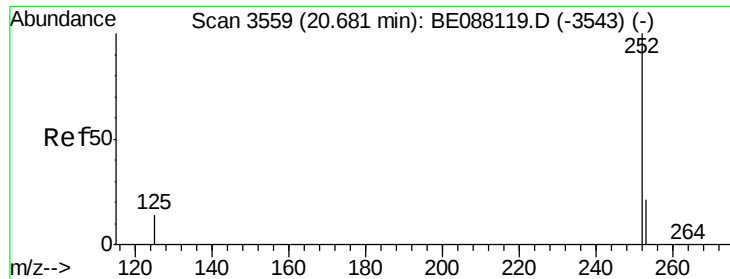


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 12.32 ng

RT: 20.70 min Scan# 3563

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

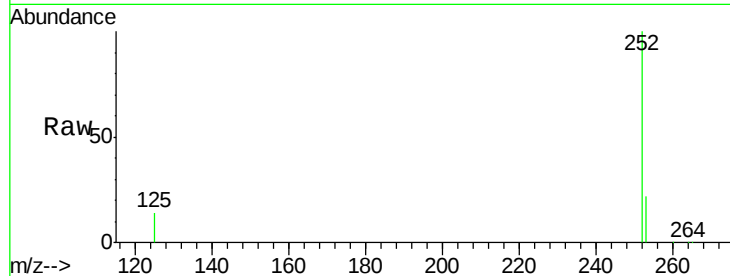
Tgt Ion:252 Resp: 245574

Ion Ratio Lower Upper

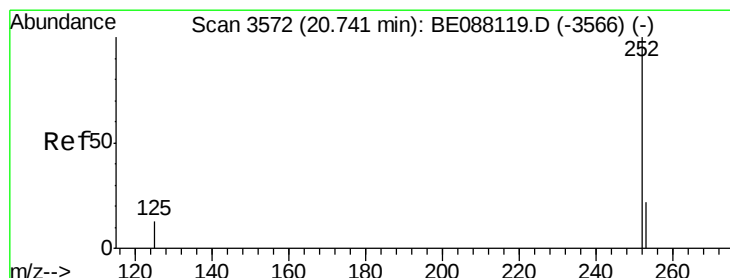
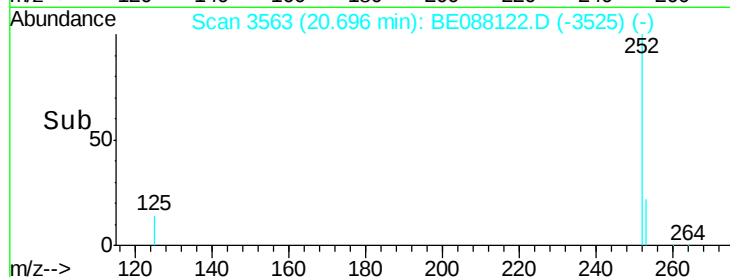
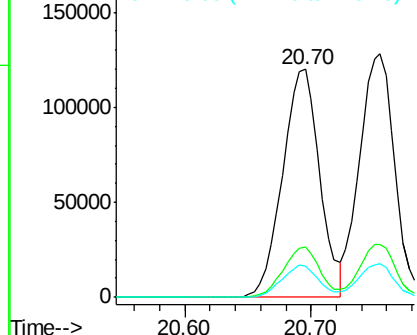
252 100

253 22.0 17.4 26.0

125 13.7 11.8 17.8



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



#24

Benzo(k)fluoranthene

Concen: 9.14 ng

RT: 20.75 min Scan# 3576

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

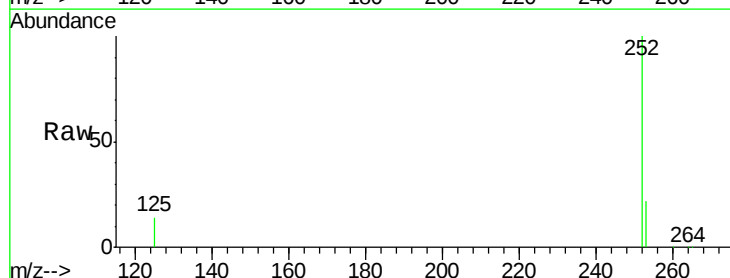
Tgt Ion:252 Resp: 254057

Ion Ratio Lower Upper

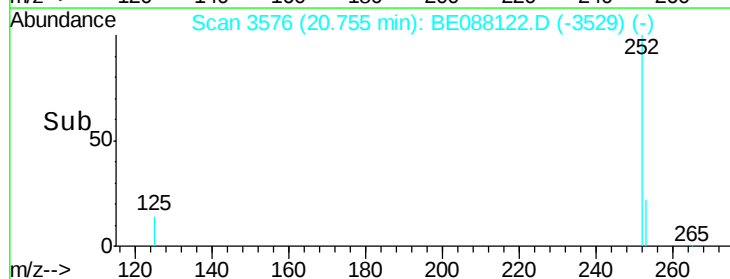
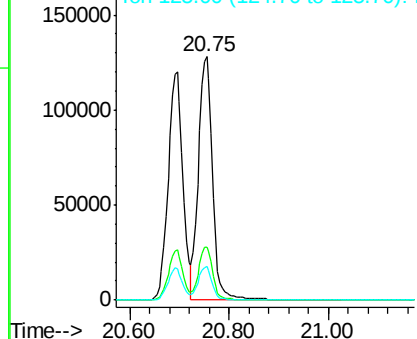
252 100

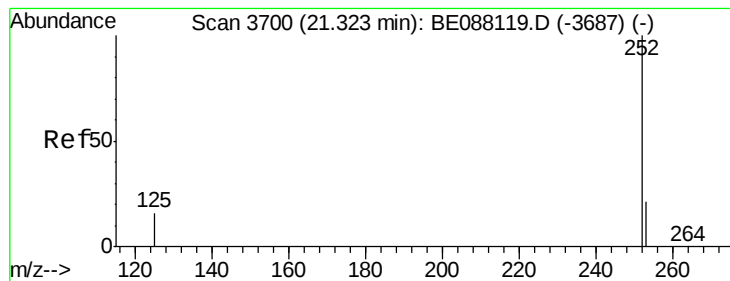
253 21.9 17.6 26.4

125 13.6 11.5 17.3



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





#25

Benzo(a)pyrene

Concen: 13.70 ng

RT: 21.34 min Scan# 3704

Delta R.T. 0.01 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

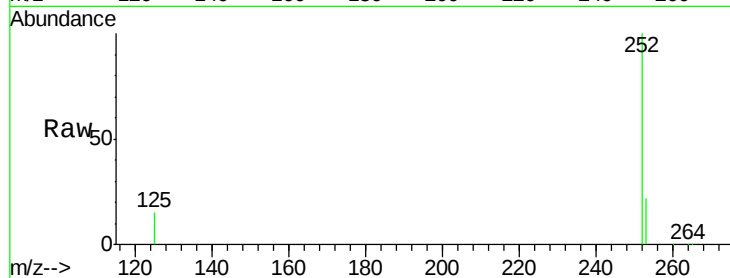
Tgt Ion:252 Resp: 235947

Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

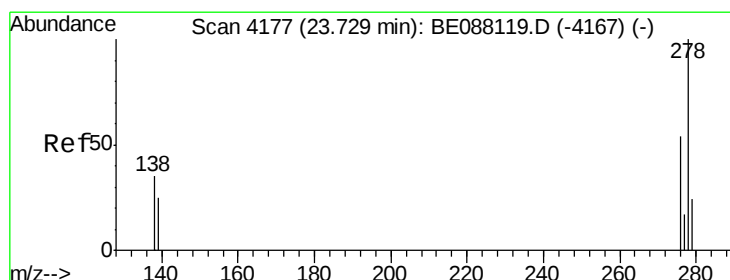
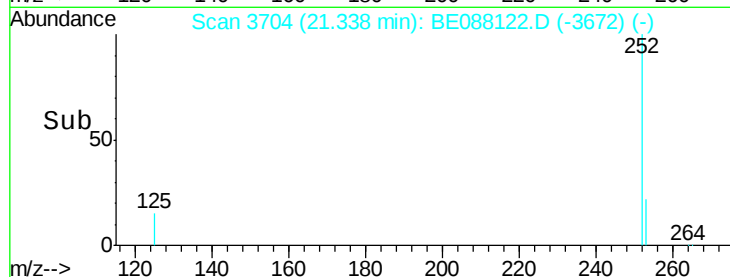
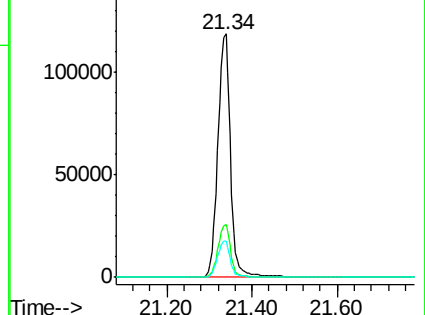
125 14.8 13.0 19.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 12.70 ng

RT: 23.75 min Scan# 4181

Delta R.T. 0.02 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

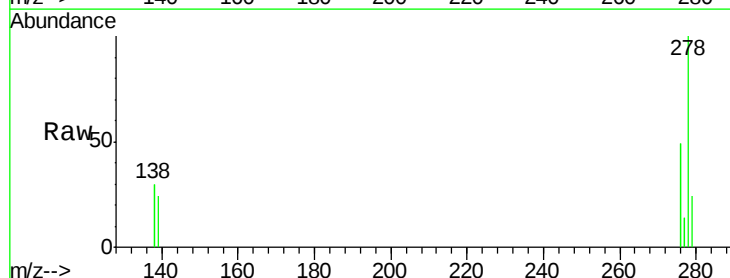
Tgt Ion:278 Resp: 231497

Ion Ratio Lower Upper

278 100

139 23.7 20.9 31.3

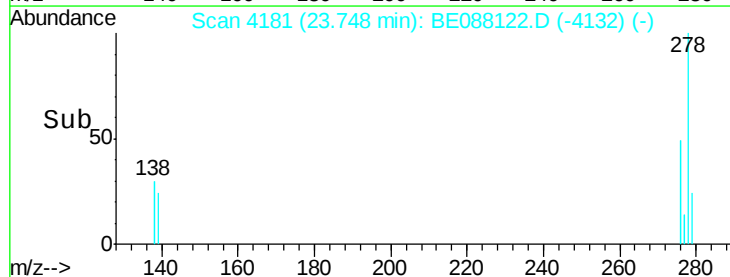
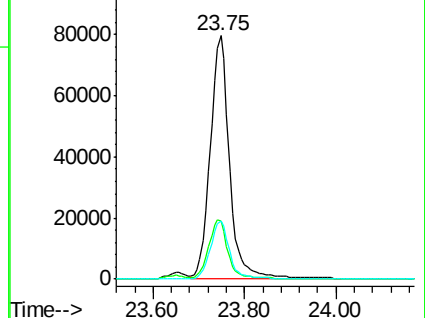
279 24.0 19.8 29.8

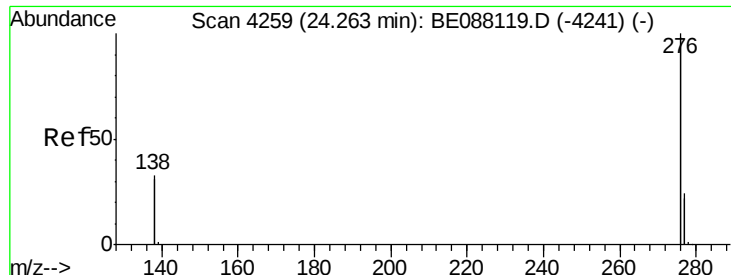


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 11.35 ng

RT: 24.30 min Scan# 4265

Delta R.T. 0.03 min

Lab File: BE088122.D

Acq: 20 Oct 2014 23:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

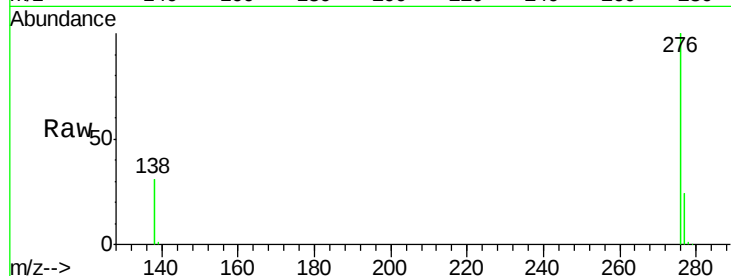
Tgt Ion: 276 Resp: 996560

Ion Ratio Lower Upper

276 100

277 23.8 19.2 28.8

138 30.7 26.6 40.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

