

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088115.D
 Acq On : 20 Oct 2014 19:33
 Operator : TP/JJ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

Quant Time: Oct 21 01:56:36 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	52225	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	197785	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	87546	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	159488	5.00	ng	0.00
16) Chrysene-d12	18.39	240	116737	5.00	ng	0.00
22) Perylene-d12	21.45	264	107013	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	1289	0.11	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	2397	0.10	ng	0.00
18) Terphenyl-d14	16.15	244	1895	0.10	ng	0.00

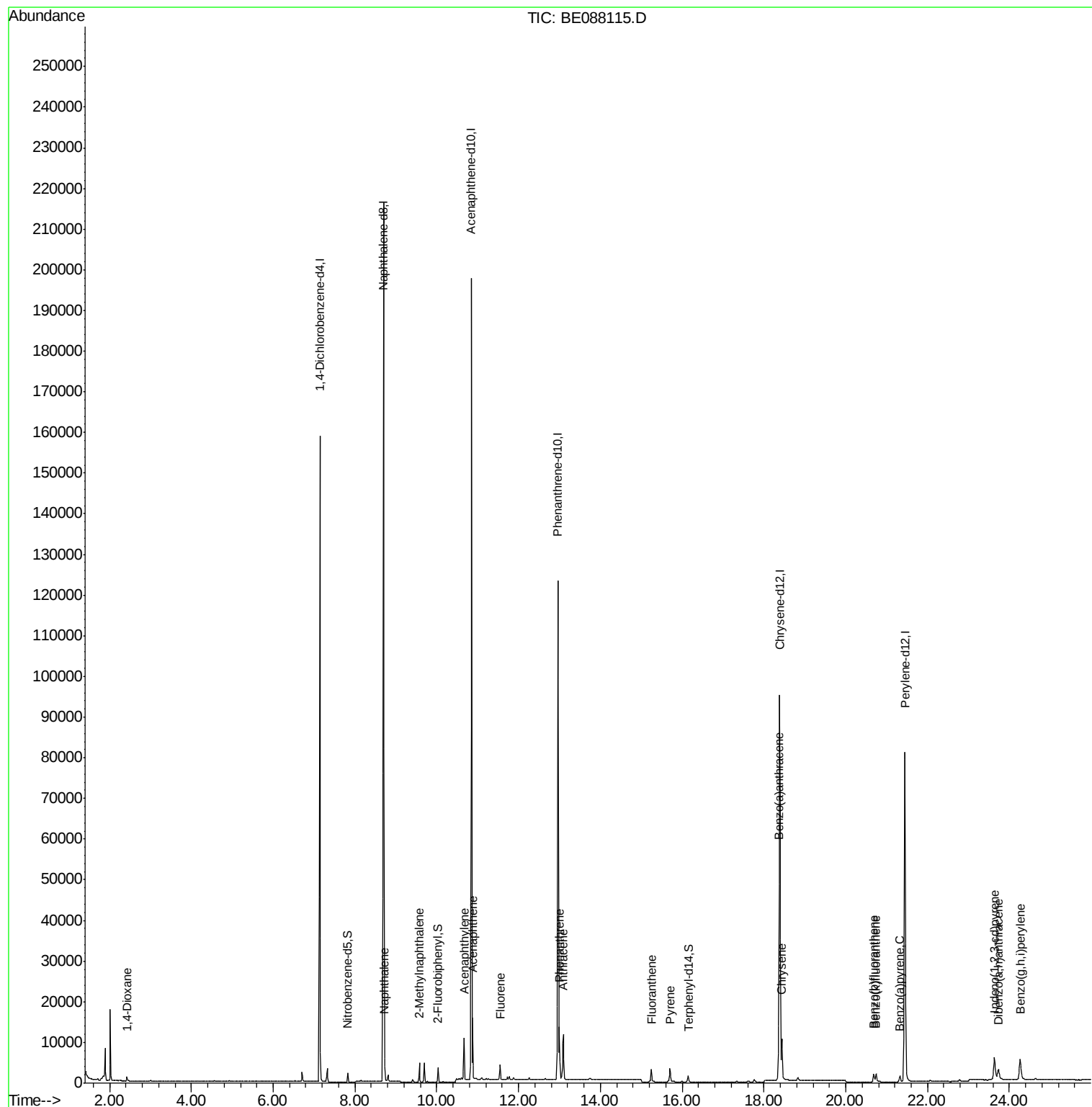
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.42	88	709	0.09	ng	# 86
5) Naphthalene	8.72	128	4234	0.11	ng	96
6) 2-Methylnaphthalene	9.57	142	2373	0.10	ng	98
9) Acenaphthylene	10.67	152	12709	0.10	ng	100
10) Acenaphthene	10.88	154	2264	0.11	ng	85
11) Fluorene	11.55	166	2147	0.10	ng	100
13) Phenanthrene	13.00	178	20363	0.14	ng	# 88
14) Anthracene	13.09	178	12654	0.10	ng	# 89
15) Fluoranthene	15.25	202	3514	0.11	ng	99
17) Pyrene	15.70	202	3683	0.12	ng	99
19) Benzo(a)anthracene	18.36	228	12688	0.14	ng	96
20) Chrysene	18.44	228	11939	0.11	ng	97
21) Indeno(1,2,3-cd)pyrene	23.64	276	10343	0.12	ng	# 80
23) Benzo(b)fluoranthene	20.68	252	2962	0.15	ng	# 92
24) Benzo(k)fluoranthene	20.74	252	3145	0.11	ng	# 94
25) Benzo(a)pyrene	21.32	252	2450	0.14	ng	# 92
26) Dibenzo(a,h)anthracene	23.73	278	2524	0.14	ng	92
27) Benzo(g,h,i)perylene	24.27	276	11618	0.13	ng	94

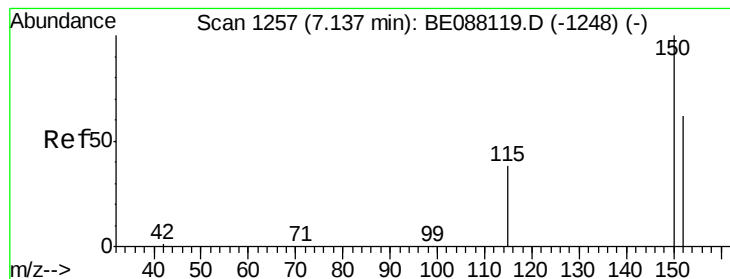
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
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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: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

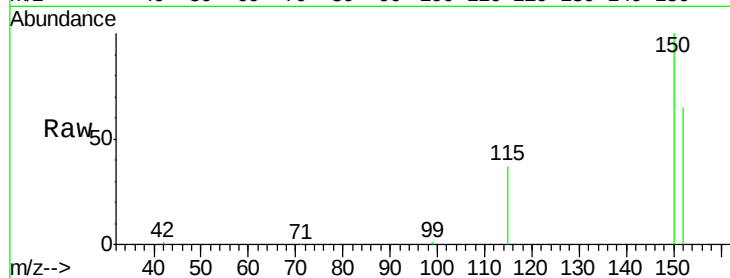
Tgt Ion: 152 Resp: 52225

Ion Ratio Lower Upper

152 100

150 153.1 129.2 193.8

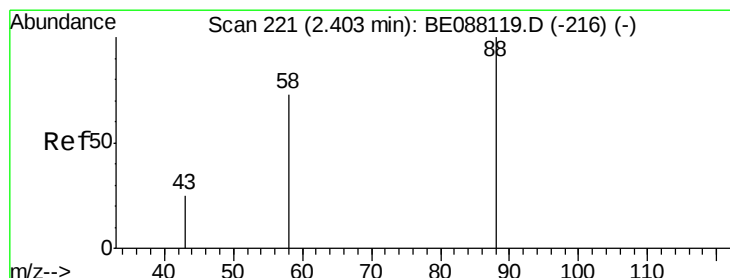
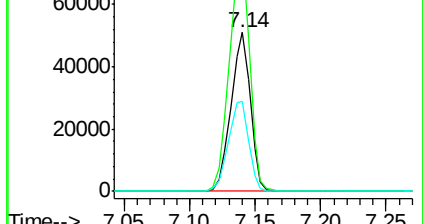
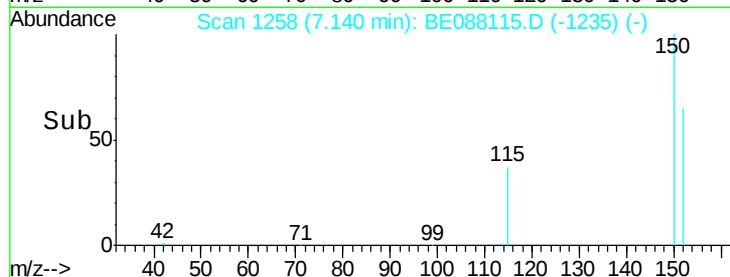
115 56.2 49.3 73.9



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: 0.09 ng

RT: 2.42 min Scan# 225

Delta R.T. 0.02 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

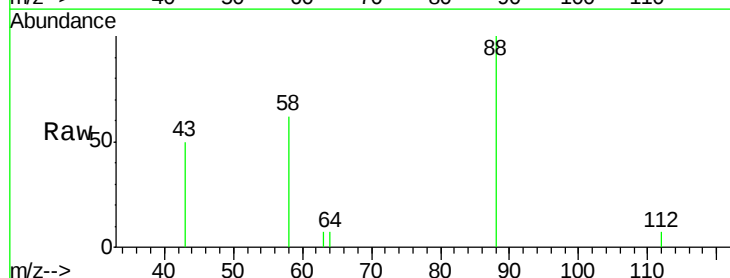
Tgt Ion: 88 Resp: 709

Ion Ratio Lower Upper

88 100

58 74.9 59.5 89.3

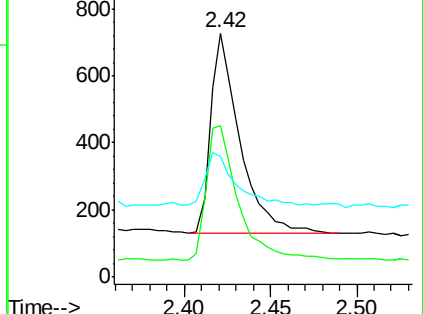
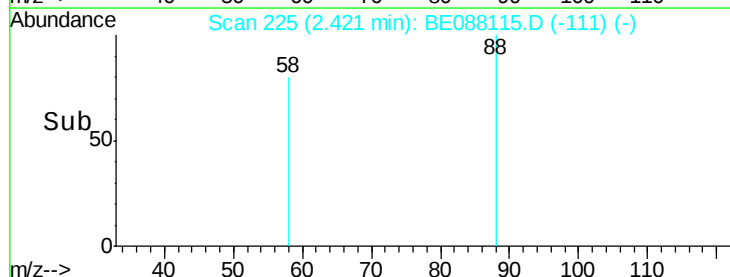
43 0.0 21.2 31.8#

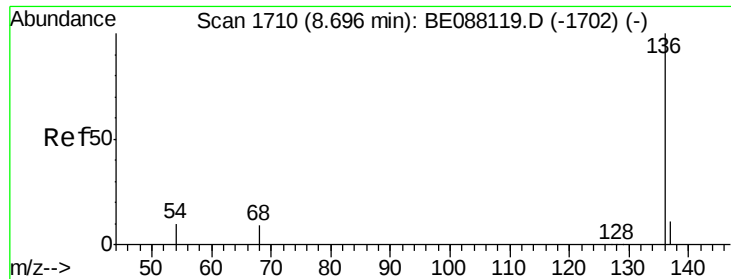


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

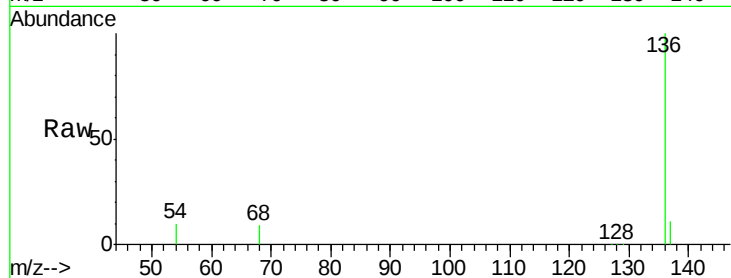




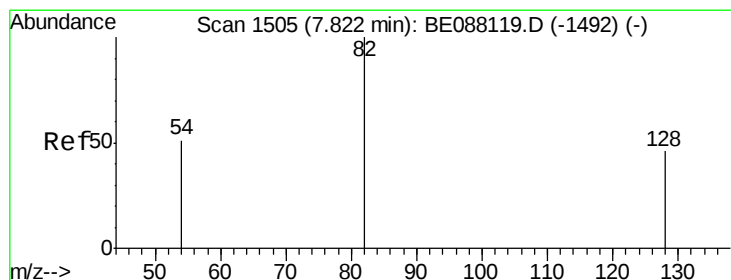
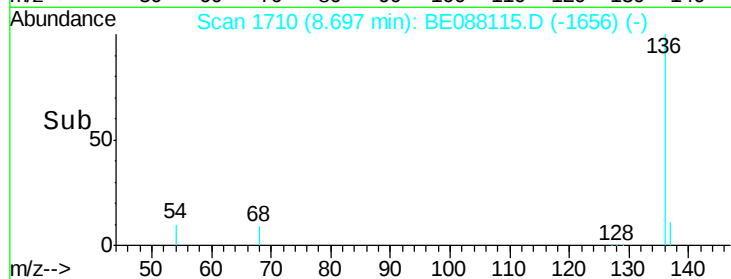
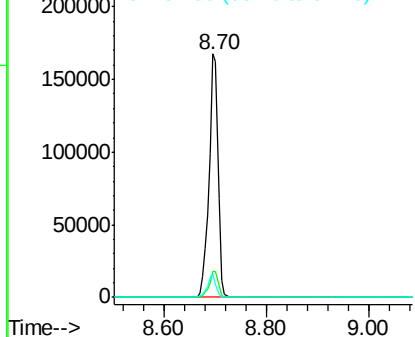
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1710
Delta R.T. 0.00 min
Lab File: BE088115.D
Acq: 20 Oct 2014 19:33

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.1

Tgt Ion: 136 Resp: 197785
Ion Ratio Lower Upper
136 100
137 10.7 8.6 12.8
54 9.6 7.7 11.5

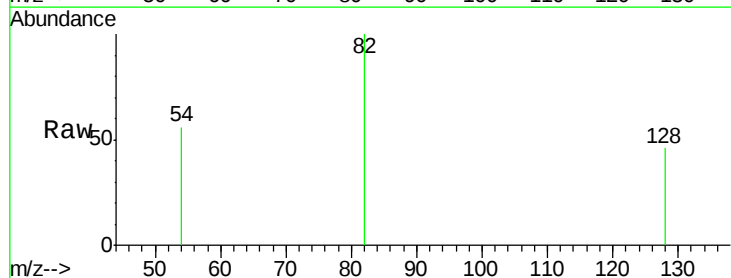


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): E

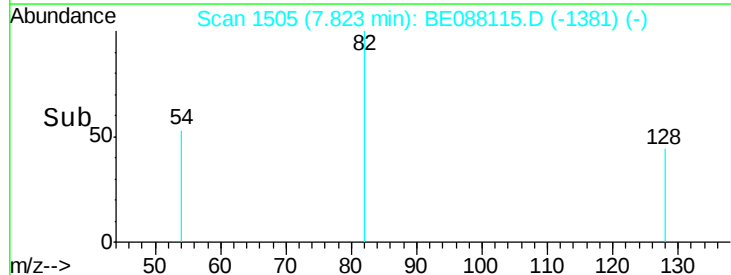
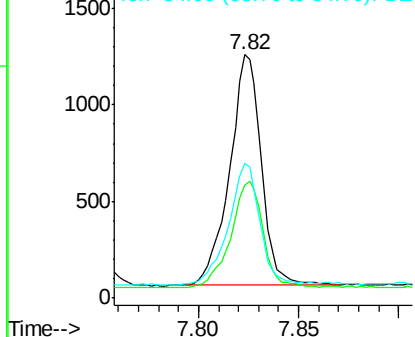


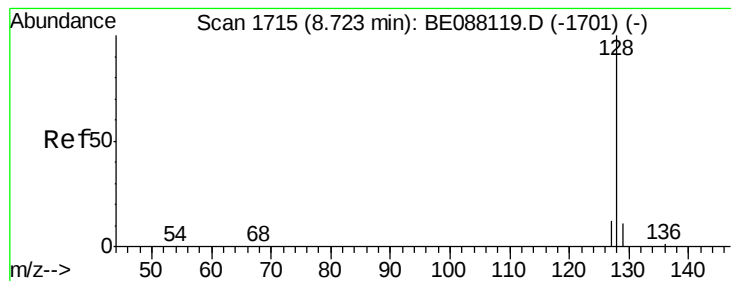
#4
Nitrobenzene-d5
Concen: 0.11 ng
RT: 7.82 min Scan# 1505
Delta R.T. 0.00 min
Lab File: BE088115.D
Acq: 20 Oct 2014 19:33

Tgt Ion: 82 Resp: 1289
Ion Ratio Lower Upper
82 100
128 46.3 37.1 55.7
54 55.6 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: 0.11 ng

RT: 8.72 min Scan# 1715

Delta R.T. 0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.1

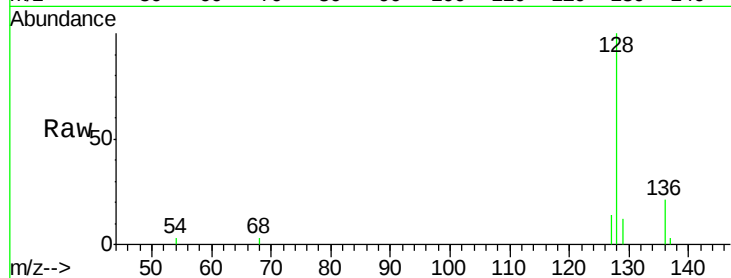
Tgt Ion:128 Resp: 4234

Ion Ratio Lower Upper

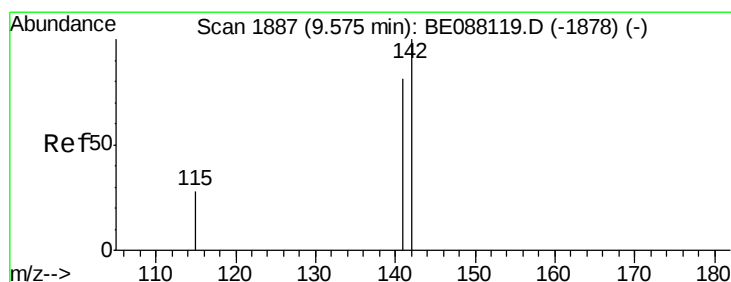
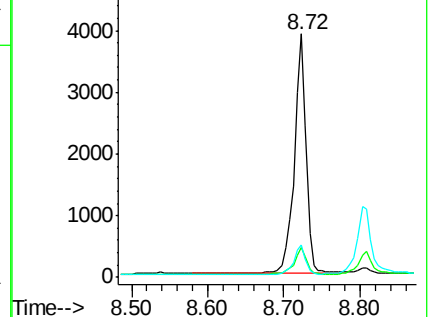
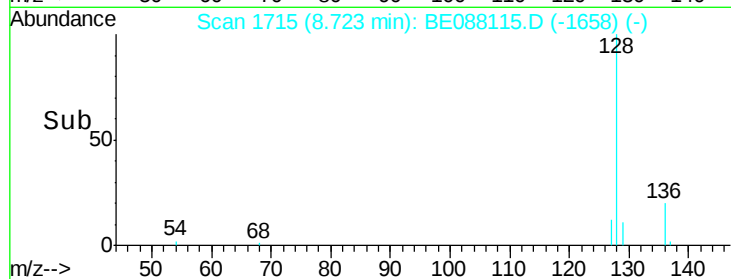
128 100

129 12.4 8.9 13.3

127 13.6 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: 0.10 ng

RT: 9.57 min Scan# 1887

Delta R.T. -0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

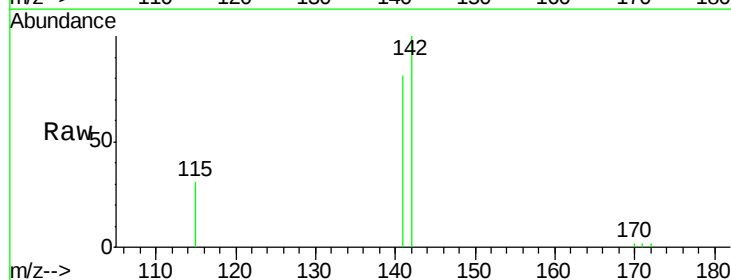
Tgt Ion:142 Resp: 2373

Ion Ratio Lower Upper

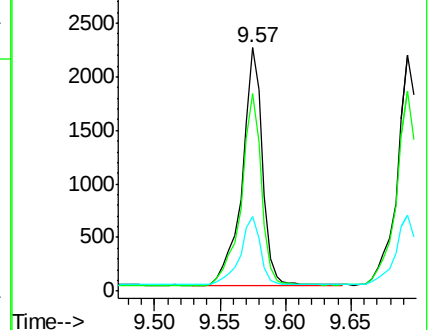
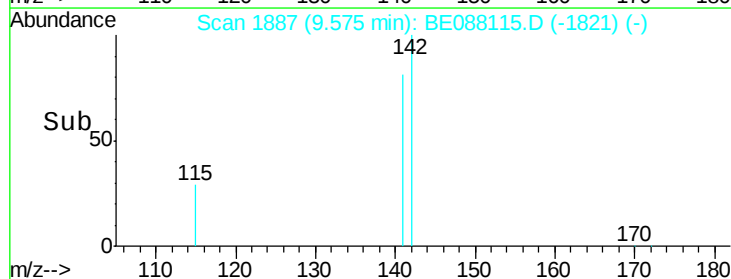
142 100

141 81.4 64.6 97.0

115 30.8 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# 2113

Delta R.T. -0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

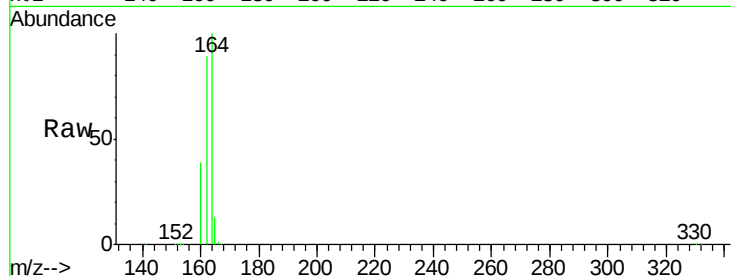
Tgt Ion:164 Resp: 87546

Ion Ratio Lower Upper

164 100

162 89.1 68.3 102.5

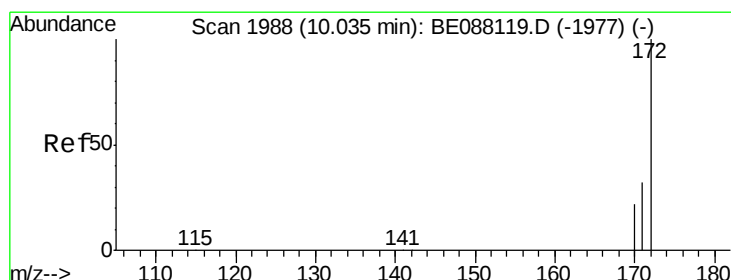
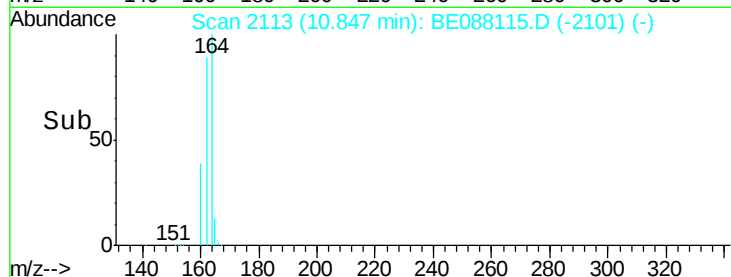
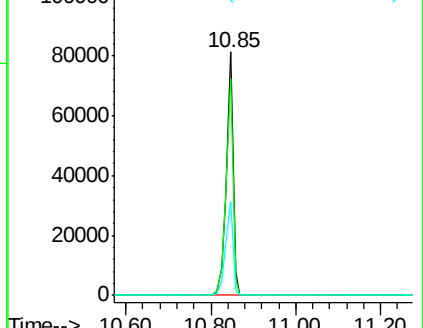
160 38.7 28.7 43.1



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: 0.10 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

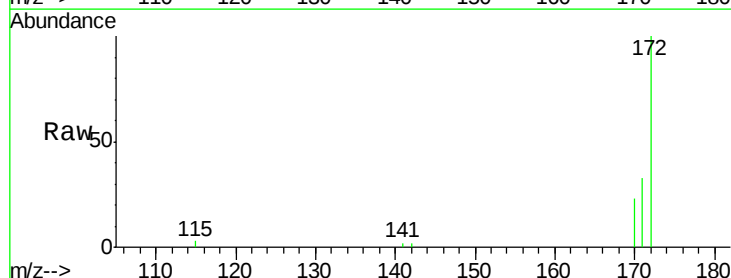
Tgt Ion:172 Resp: 2397

Ion Ratio Lower Upper

172 100

171 32.7 25.4 38.2

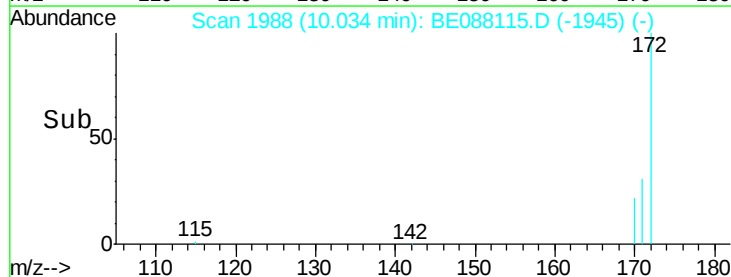
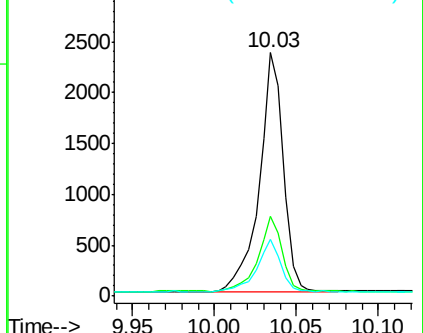
170 23.4 17.4 26.2

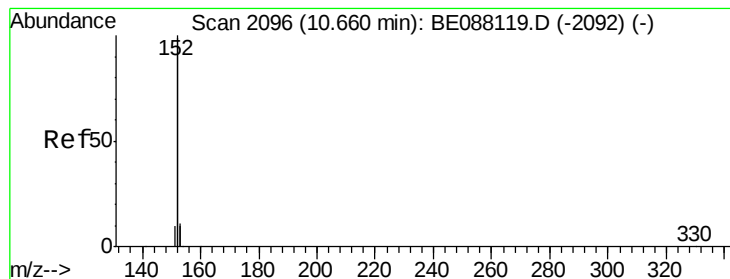


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.10 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

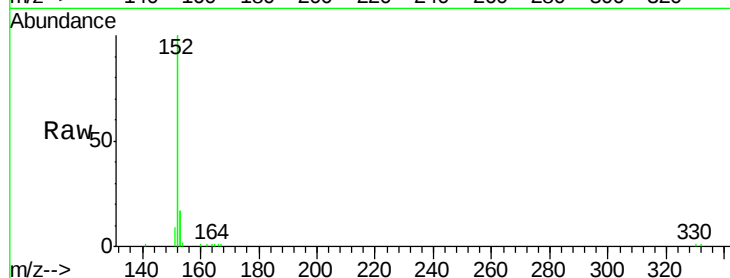
Tgt Ion:152 Resp: 12709

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

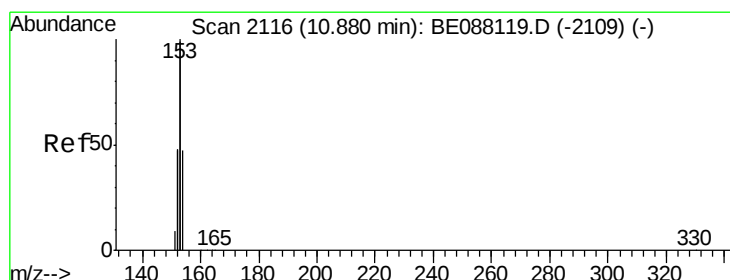
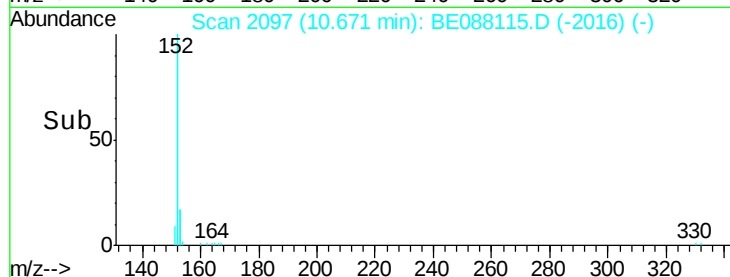
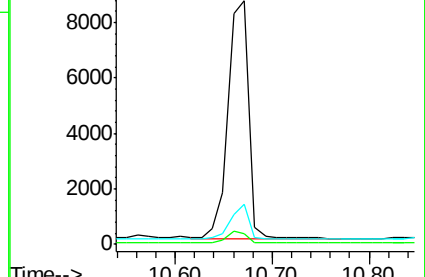
153 12.8 10.4 15.6



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: 0.11 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

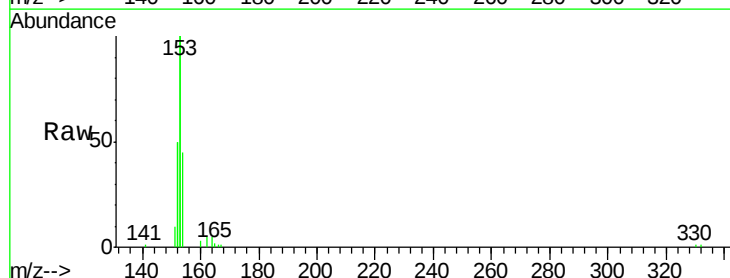
Tgt Ion:154 Resp: 2264

Ion Ratio Lower Upper

154 100

153 371.7 327.8 491.6

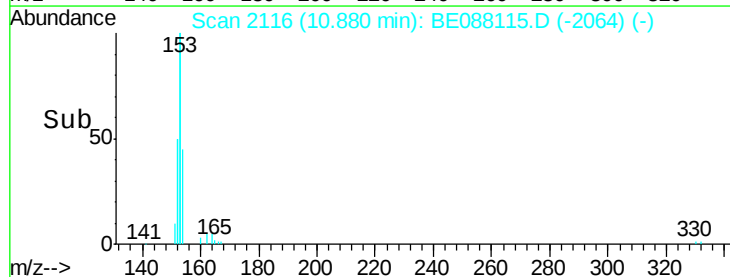
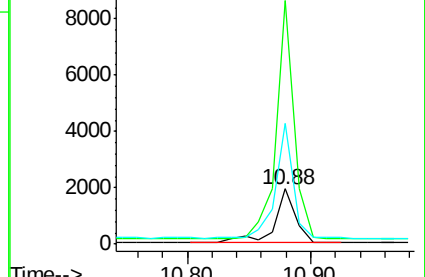
152 177.8 157.6 236.4



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: 0.10 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

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ClientSampleId :

SSTDICC0.1

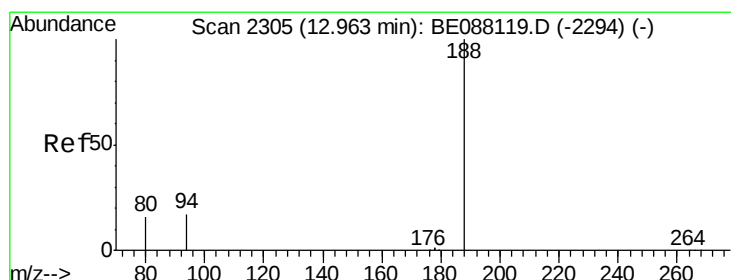
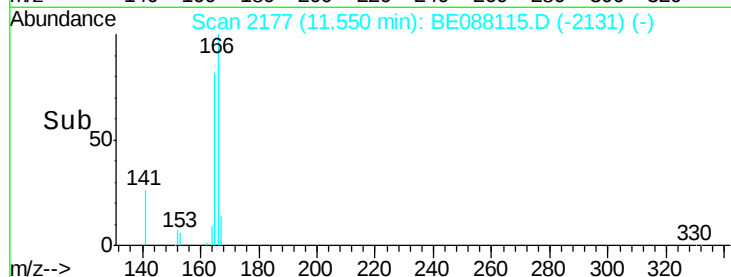
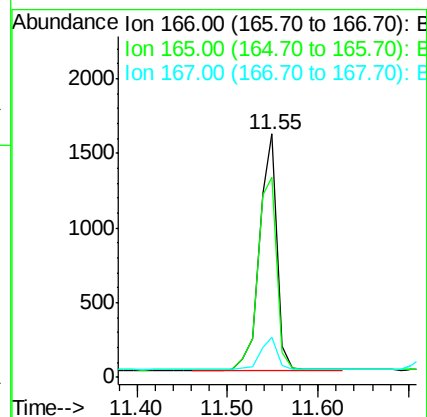
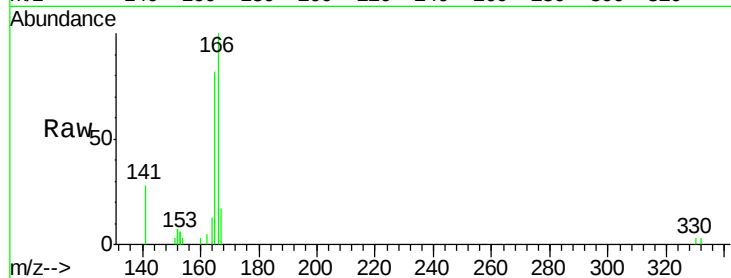
Tgt Ion:166 Resp: 2147

Ion Ratio Lower Upper

166 100

165 89.2 71.4 107.2

167 13.6 10.6 16.0



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

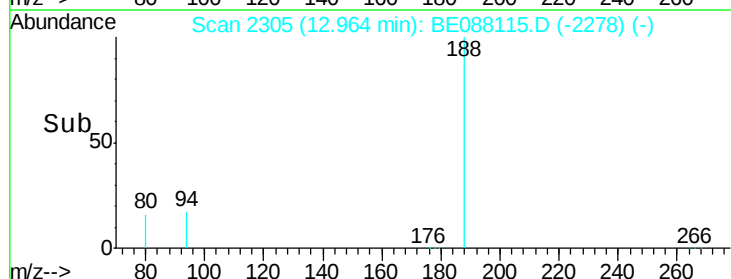
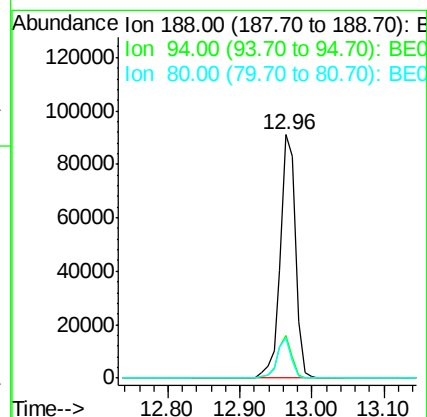
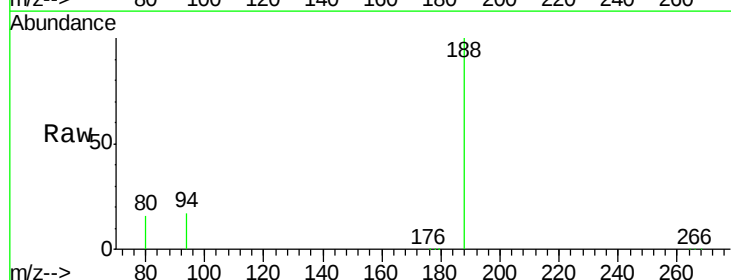
Tgt Ion:188 Resp: 159488

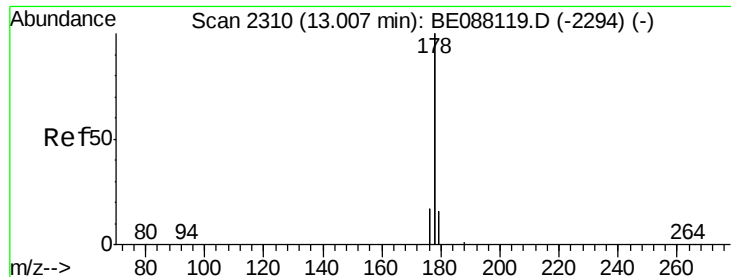
Ion Ratio Lower Upper

188 100

94 17.4 13.9 20.9

80 16.5 12.9 19.3





#13

Phenanthrene

Concen: 0.14 ng

RT: 13.00 min Scan# 2309

Delta R.T. -0.01 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

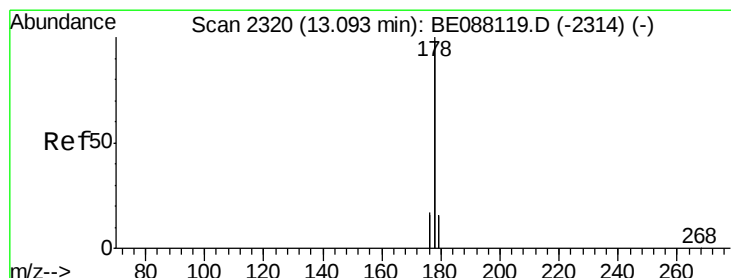
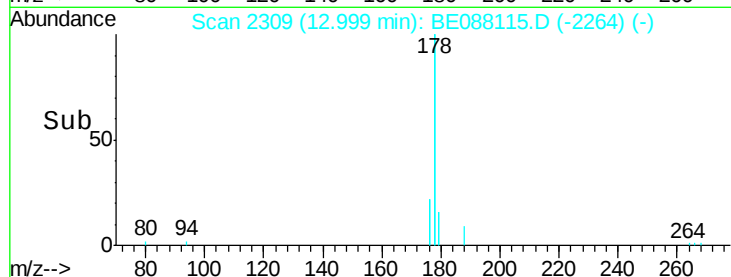
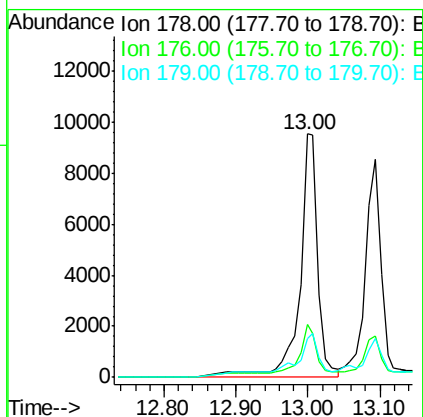
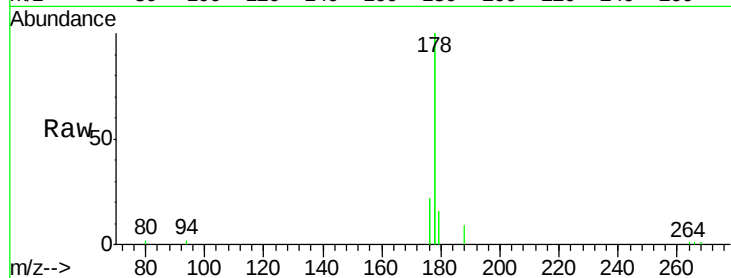
Tgt Ion:178 Resp: 20363

Ion Ratio Lower Upper

178 100

176 16.5 12.5 18.7

179 26.2 13.5 20.3#



#14

Anthracene

Concen: 0.10 ng

RT: 13.09 min Scan# 2320

Delta R.T. 0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

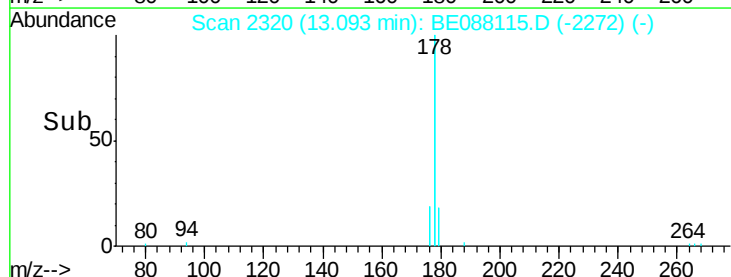
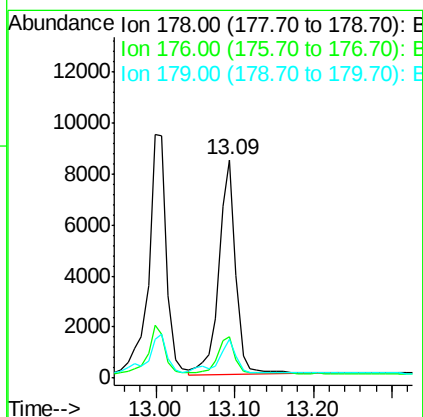
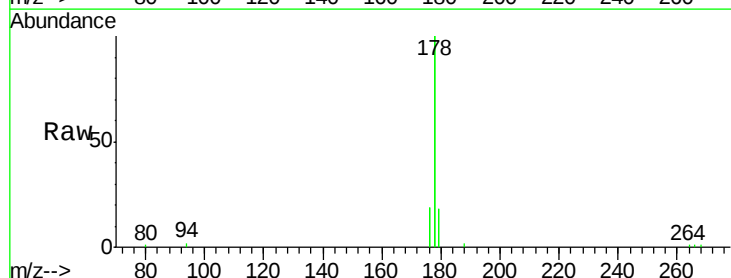
Tgt Ion:178 Resp: 12654

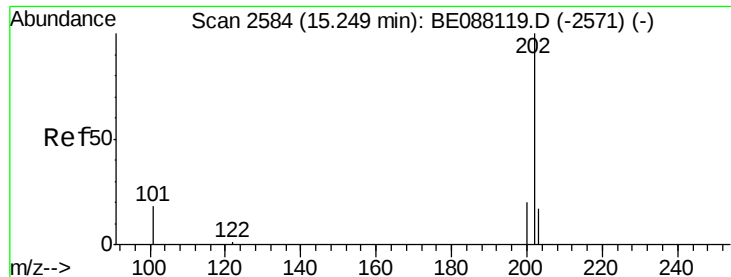
Ion Ratio Lower Upper

178 100

176 20.0 14.6 21.8

179 23.2 12.5 18.7#

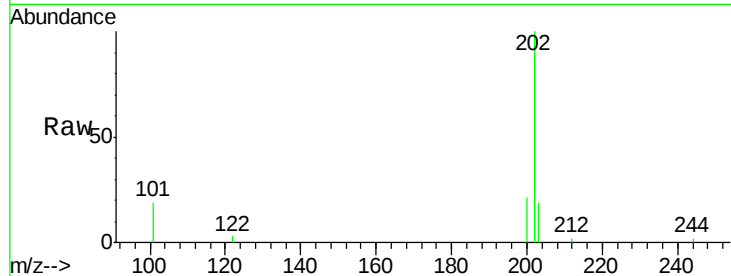




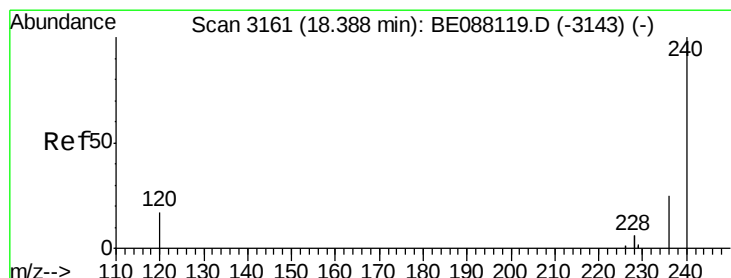
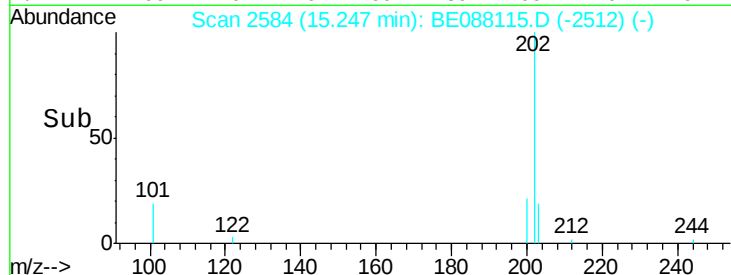
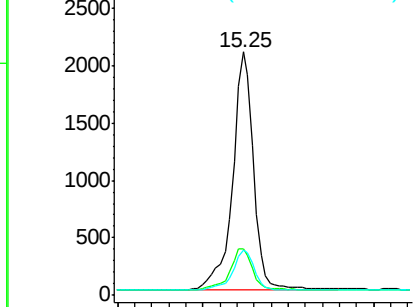
#15
 Fluoranthene
 Concen: 0.11 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. -0.00 min
 Lab File: BE088115.D
 Acq: 20 Oct 2014 19:33

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

Tgt Ion: 202 Resp: 3514
 Ion Ratio Lower Upper
 202 100
 101 17.8 14.8 22.2
 203 16.8 13.5 20.3

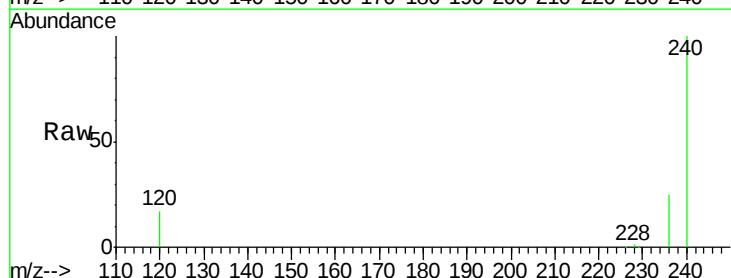


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

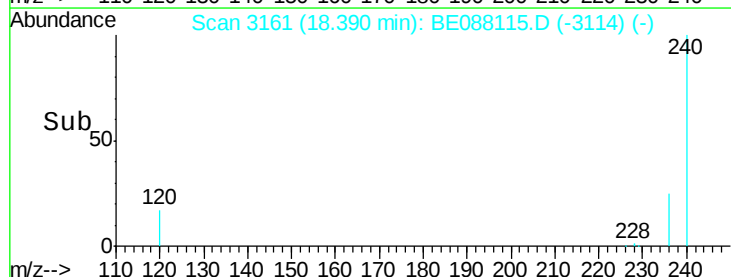
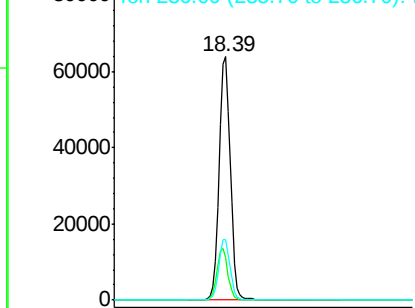


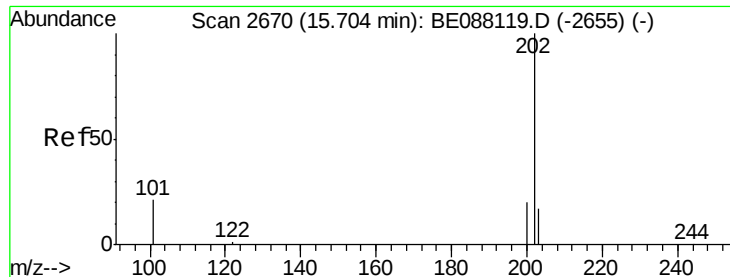
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3161
 Delta R.T. 0.00 min
 Lab File: BE088115.D
 Acq: 20 Oct 2014 19:33

Tgt Ion: 240 Resp: 116737
 Ion Ratio Lower Upper
 240 100
 120 17.5 13.9 20.9
 236 24.9 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

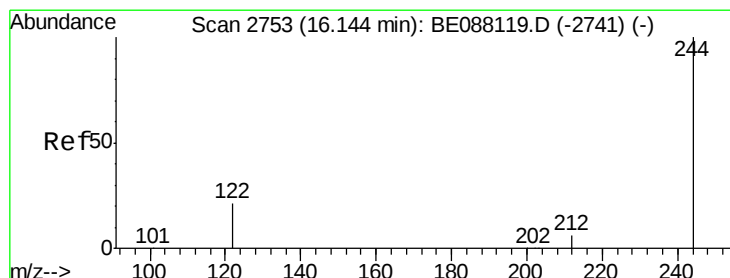
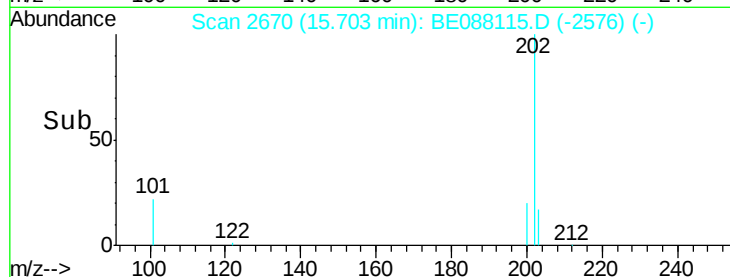
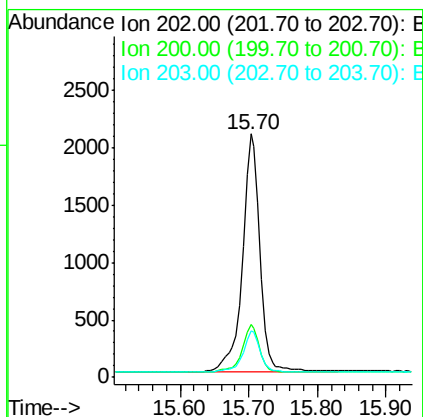
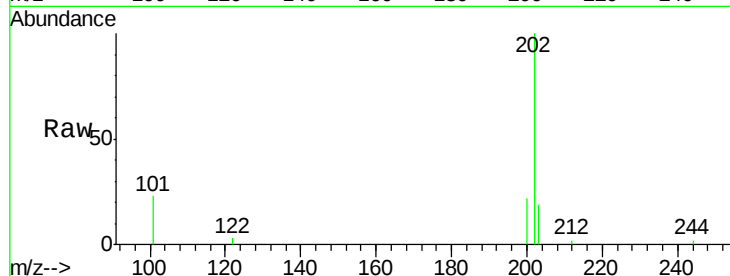




#17
 Pyrene
 Concen: 0.12 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.00 min
 Lab File: BE088115.D
 Acq: 20 Oct 2014 19:33

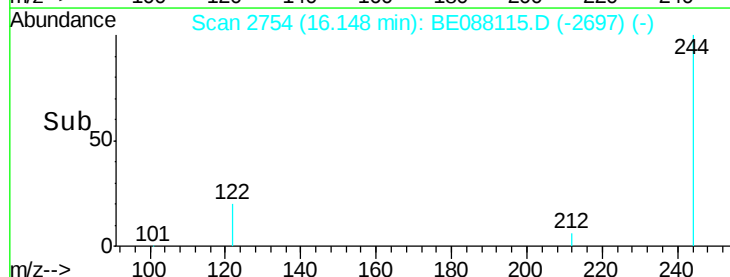
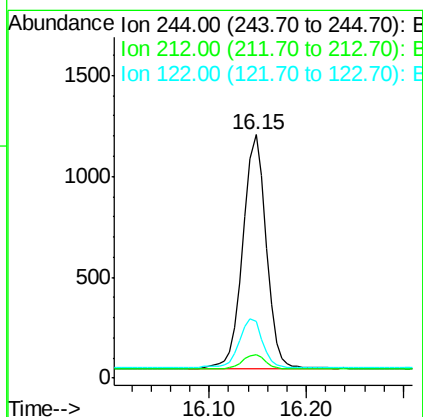
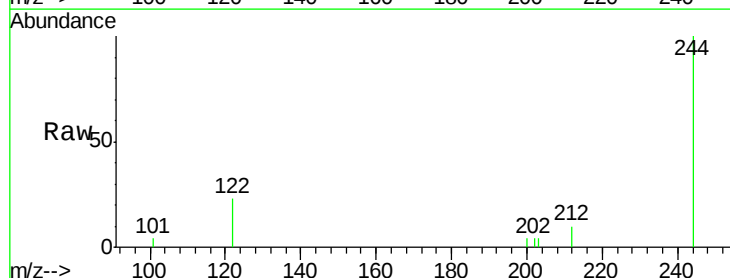
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

Tgt Ion: 202 Resp: 3683
 Ion Ratio Lower Upper
 202 100
 200 19.5 16.1 24.1
 203 17.2 13.9 20.9



#18
 Terphenyl-d14
 Concen: 0.10 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: BE088115.D
 Acq: 20 Oct 2014 19:33

Tgt Ion: 244 Resp: 1895
 Ion Ratio Lower Upper
 244 100
 212 9.7 5.4 8.0#
 122 23.3 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.14 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

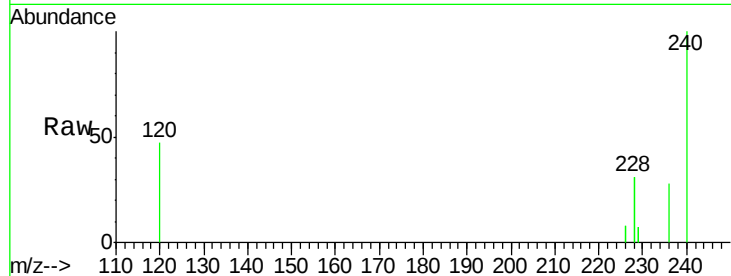
Tgt Ion:228 Resp: 12688

Ion Ratio Lower Upper

228 100

226 27.6 20.8 31.2

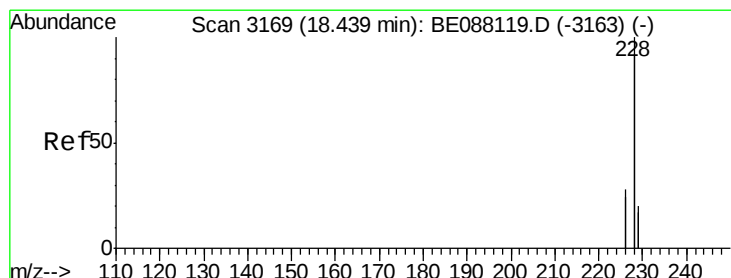
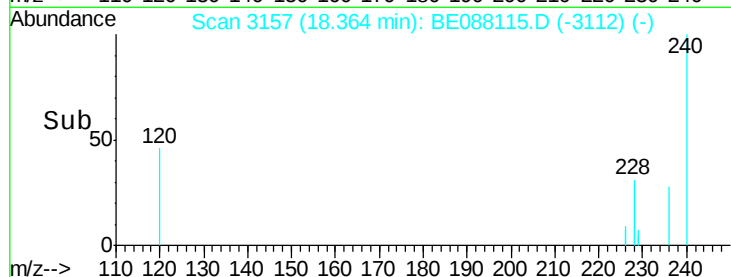
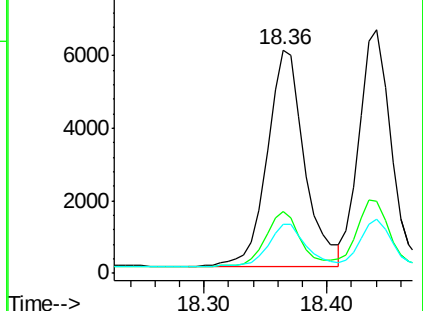
229 21.8 15.6 23.4



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



#20

Chrysene

Concen: 0.11 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

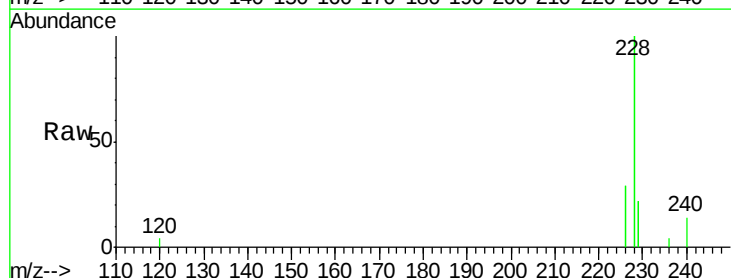
Tgt Ion:228 Resp: 11939

Ion Ratio Lower Upper

228 100

226 29.4 22.7 34.1

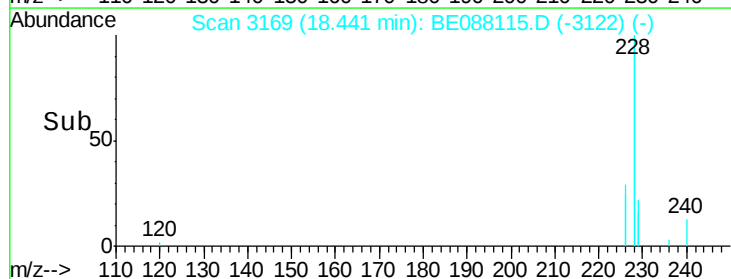
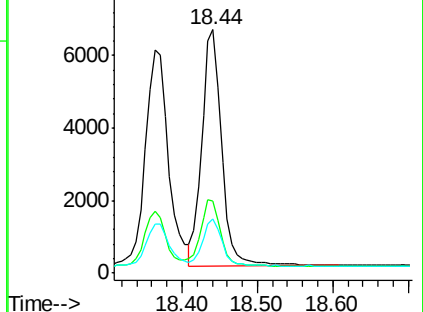
229 22.2 15.8 23.6

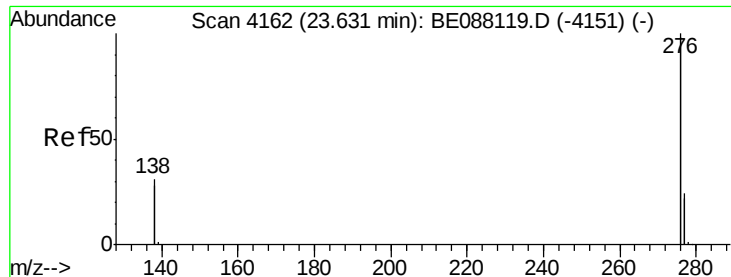


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.12 ng

RT: 23.64 min Scan# 4163

Delta R.T. 0.01 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

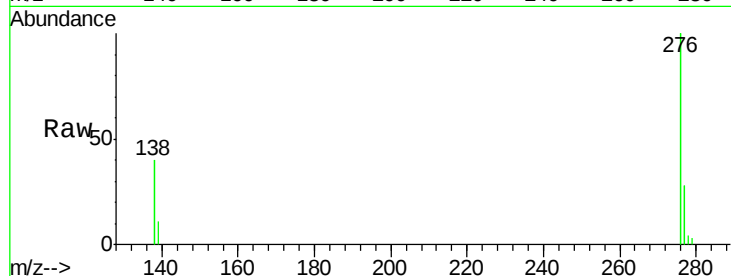
Tgt Ion:276 Resp: 10343

Ion Ratio Lower Upper

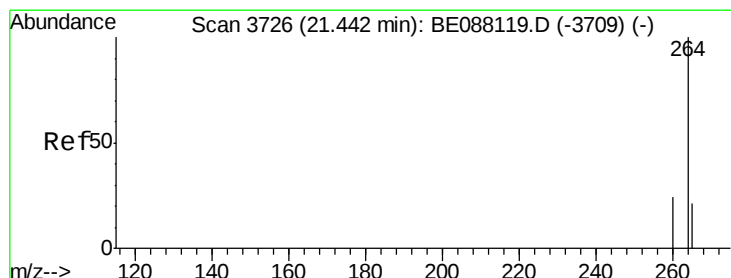
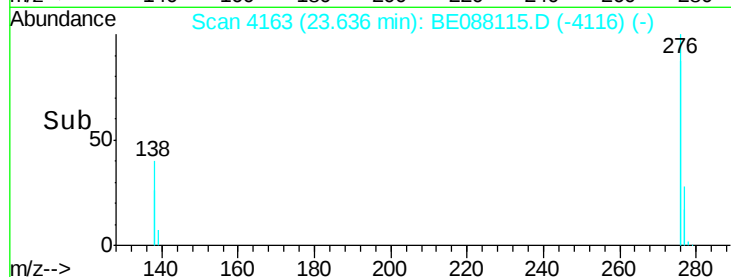
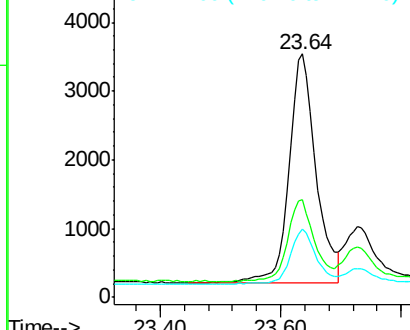
276 100

138 36.1 18.5 27.7#

277 23.3 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# 3727

Delta R.T. 0.01 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

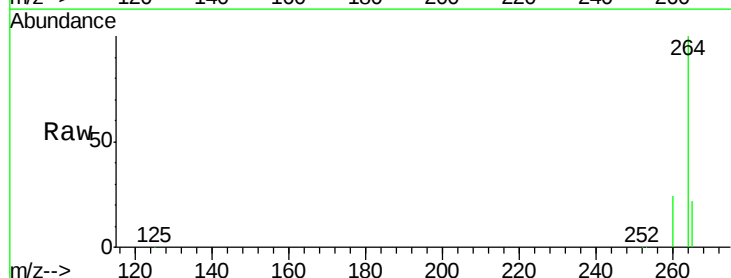
Tgt Ion:264 Resp: 107013

Ion Ratio Lower Upper

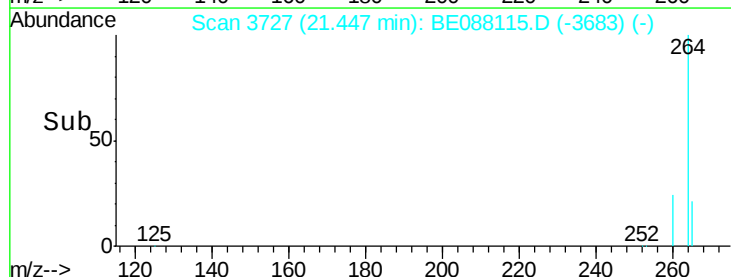
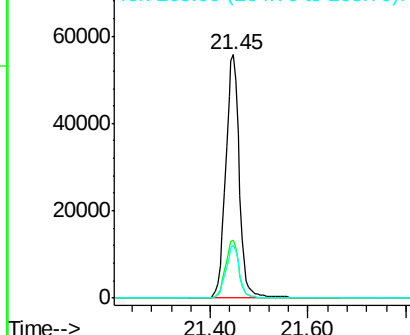
264 100

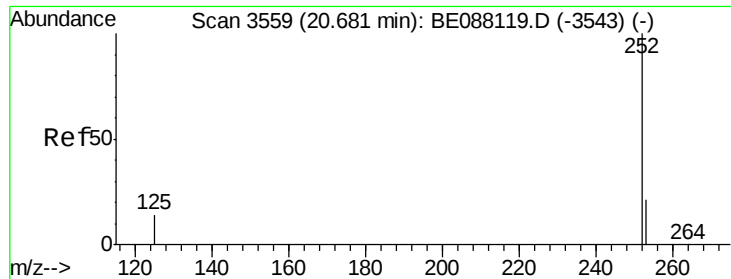
260 23.6 19.0 28.4

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: 0.15 ng

RT: 20.68 min Scan# 3559

Delta R.T. 0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

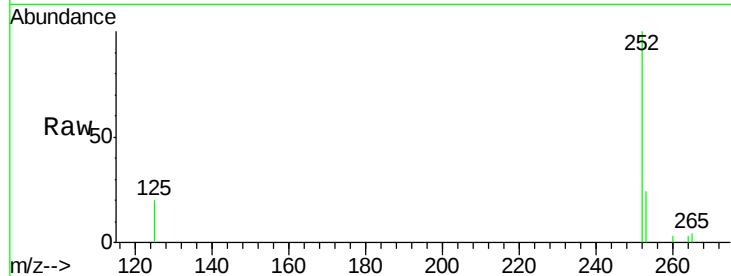
Tgt Ion:252 Resp: 2962

Ion Ratio Lower Upper

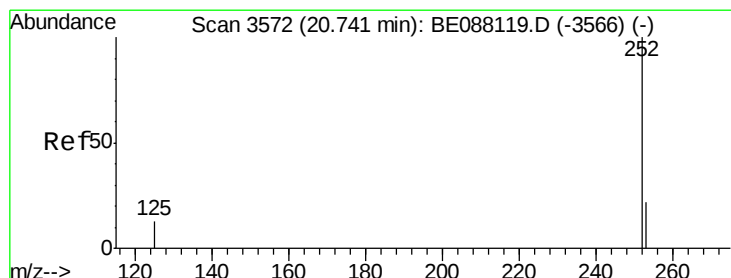
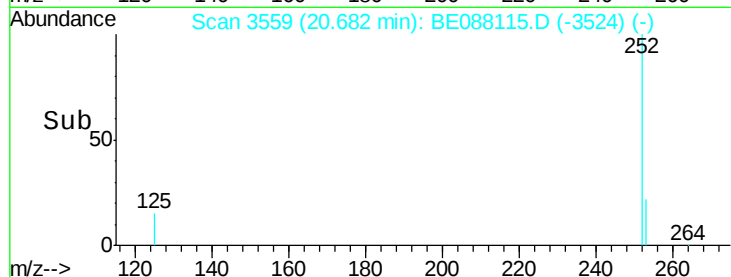
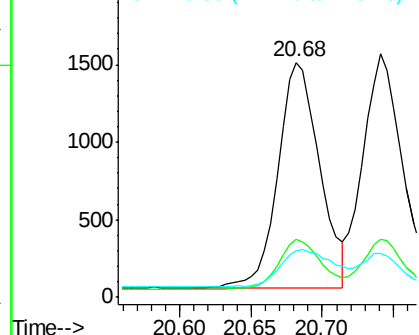
252 100

253 24.4 17.4 26.0

125 19.7 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: 0.11 ng

RT: 20.74 min Scan# 3572

Delta R.T. 0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

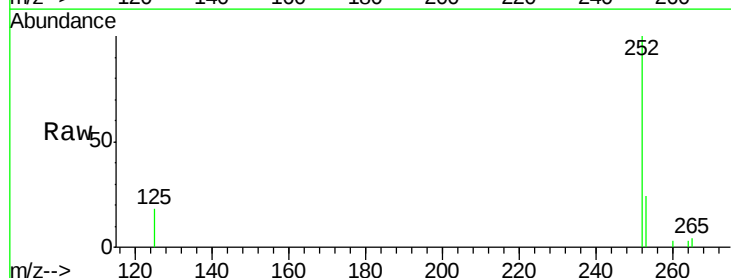
Tgt Ion:252 Resp: 3145

Ion Ratio Lower Upper

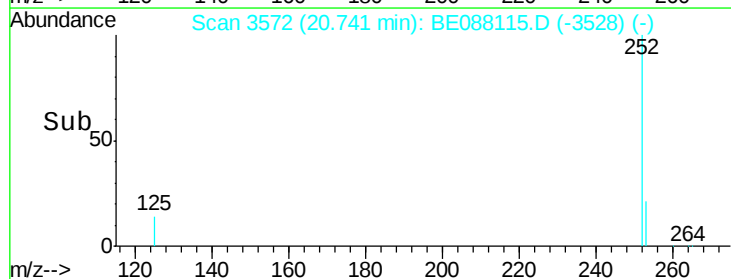
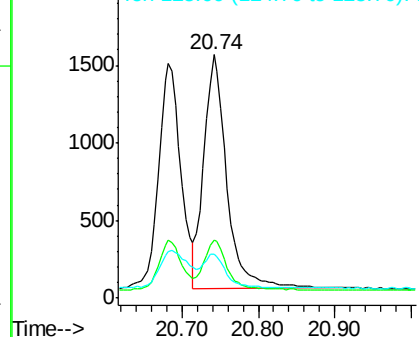
252 100

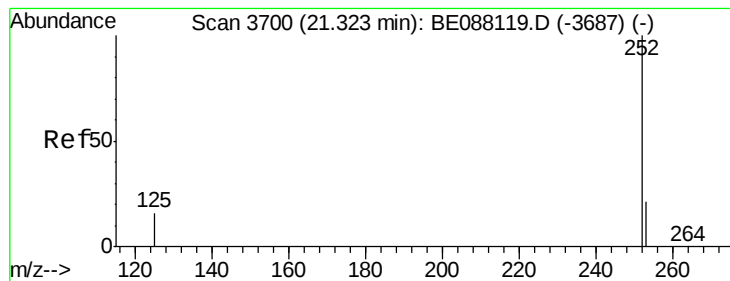
253 23.8 17.6 26.4

125 17.9 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: 0.14 ng

RT: 21.32 min Scan# 3700

Delta R.T. 0.00 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

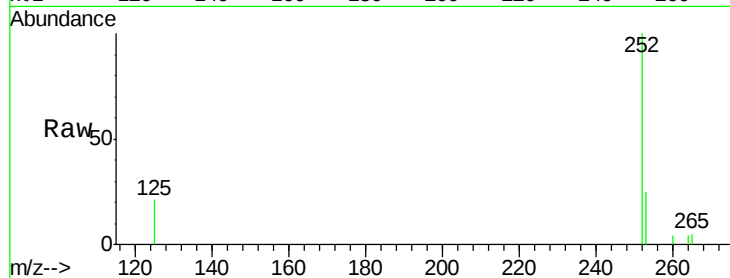
Tgt Ion:252 Resp: 2450

Ion Ratio Lower Upper

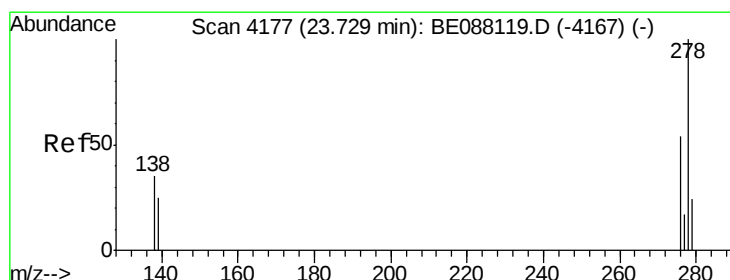
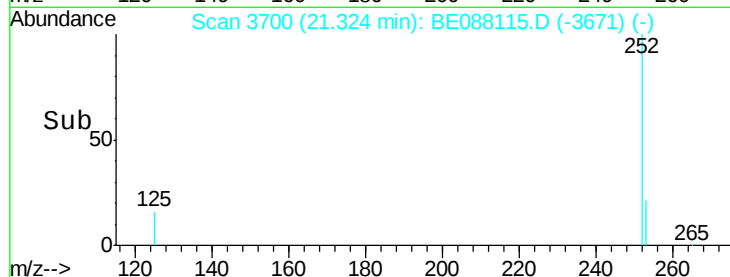
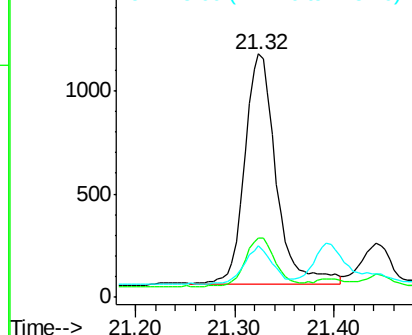
252 100

253 24.6 17.5 26.3

125 21.0 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: 0.14 ng

RT: 23.73 min Scan# 4178

Delta R.T. 0.01 min

Lab File: BE088115.D

Acq: 20 Oct 2014 19:33

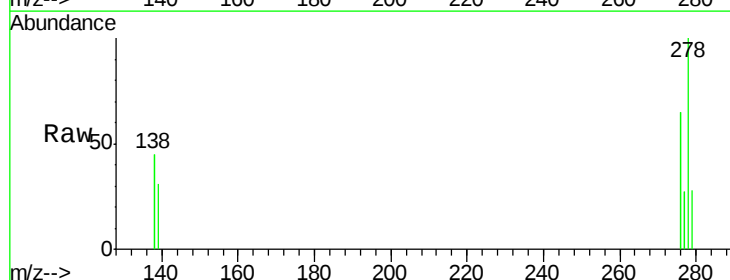
Tgt Ion:278 Resp: 2524

Ion Ratio Lower Upper

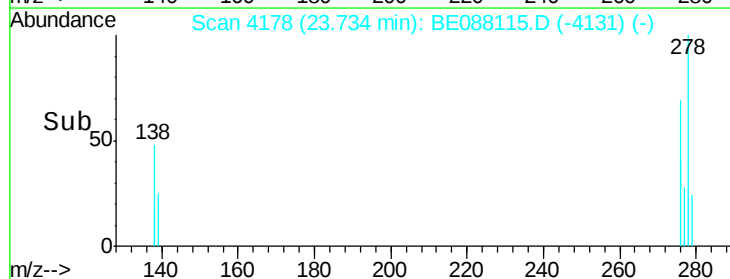
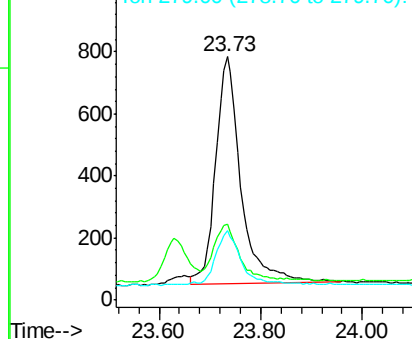
278 100

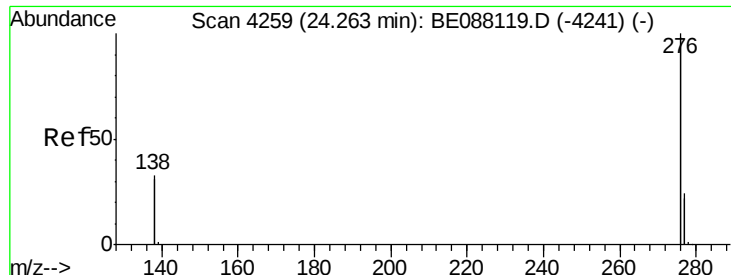
139 31.0 20.9 31.3

279 28.4 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: 0.13 ng

RT: 24.27 min Scan# 4260

Delta R.T. 0.01 min

Lab File: BE088115.D

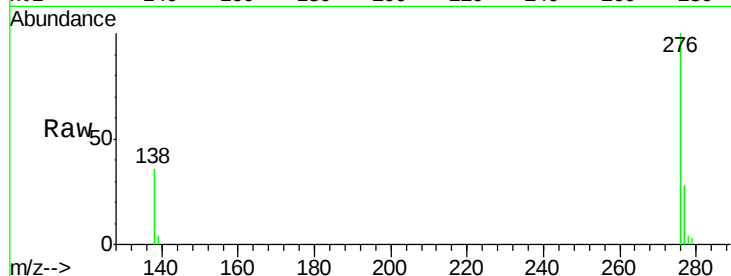
Acq: 20 Oct 2014 19:33

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1



Tgt Ion: 276 Resp: 11618

Ion Ratio Lower Upper

276 100

277 27.9 19.2 28.8

138 35.7 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

