

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088118.D
 Acq On : 20 Oct 2014 21:15
 Operator : TP/JJ
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.8

Quant Time: Oct 21 01:57:09 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	45411	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	172879	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	77716	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	143001	5.00	ng	0.00
16) Chrysene-d12	18.39	240	109522	5.00	ng	0.00
22) Perylene-d12	21.45	264	101919	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	8985	0.86	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	15889	0.74	ng	0.00
18) Terphenyl-d14	16.15	244	12639	0.74	ng	0.00

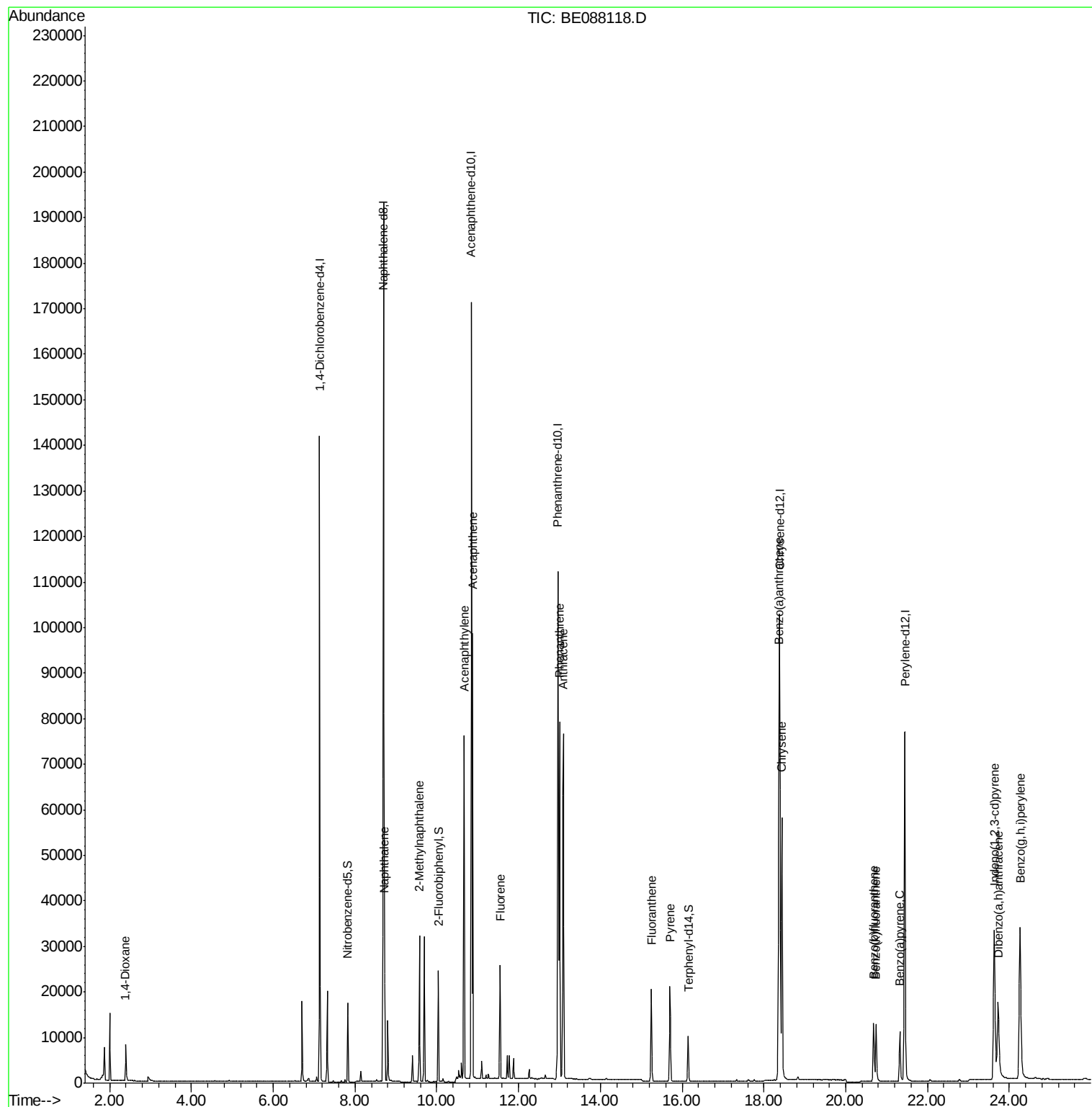
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.40	88	4761	0.73	ng	98
5) Naphthalene	8.72	128	26130	0.75	ng	100
6) 2-Methylnaphthalene	9.58	142	15847	0.77	ng	99
9) Acenaphthylene	10.67	152	88834	0.81	ng	100
10) Acenaphthene	10.88	154	13506	0.75	ng	97
11) Fluorene	11.55	166	14481	0.79	ng	100
13) Phenanthrene	13.01	178	103289	0.77	ng	99
14) Anthracene	13.09	178	81712	0.70	ng	100
15) Fluoranthene	15.25	202	19611	0.70	ng	100
17) Pyrene	15.70	202	20879	0.74	ng	100
19) Benzo(a)anthracene	18.36	228	67217	0.80	ng	99
20) Chrysene	18.44	228	67949	0.66	ng	100
21) Indeno(1,2,3-cd)pyrene	23.63	276	60730	0.73	ng	# 86
23) Benzo(b)fluoranthene	20.68	252	17298	0.91	ng	100
24) Benzo(k)fluoranthene	20.74	252	18711	0.70	ng	99
25) Benzo(a)pyrene	21.32	252	16061	0.98	ng	100
26) Dibenzo(a,h)anthracene	23.73	278	15581	0.89	ng	100
27) Benzo(g,h,i)perylene	24.26	276	68276	0.81	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: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

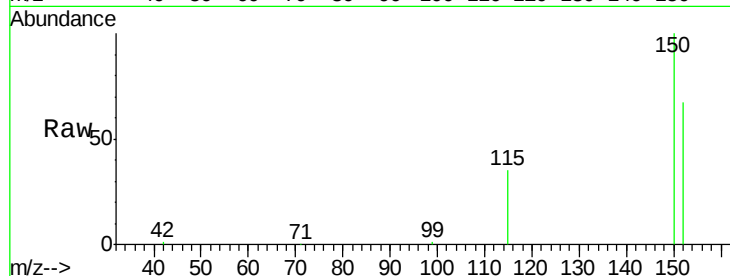
Tgt Ion:152 Resp: 45411

Ion Ratio Lower Upper

152 100

150 148.5 129.2 193.8

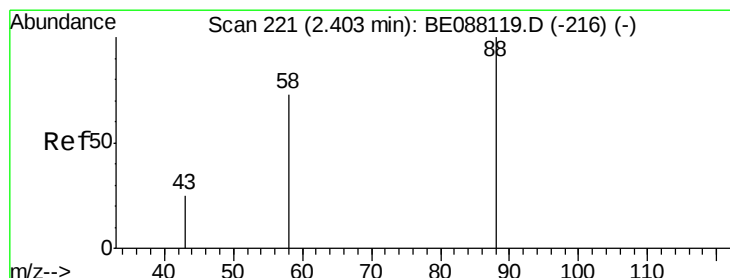
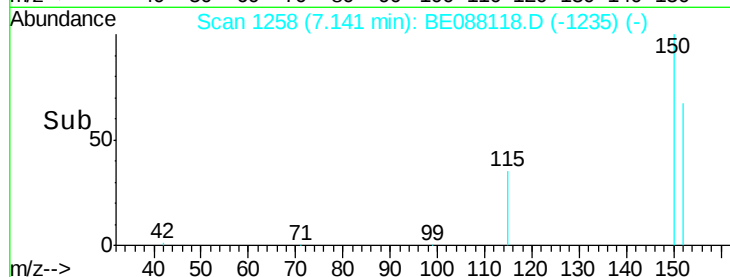
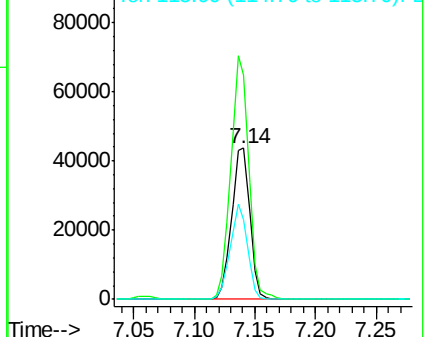
115 52.6 49.3 73.9



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: 0.73 ng

RT: 2.40 min Scan# 220

Delta R.T. -0.01 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

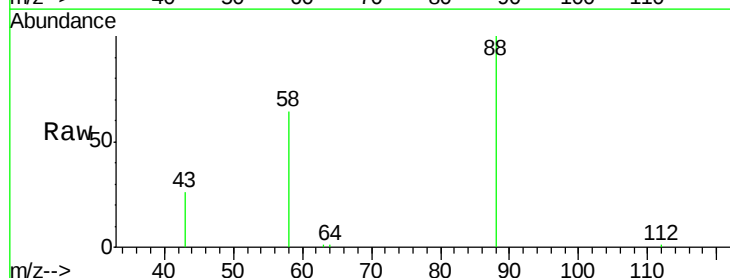
Tgt Ion: 88 Resp: 4761

Ion Ratio Lower Upper

88 100

58 72.4 59.5 89.3

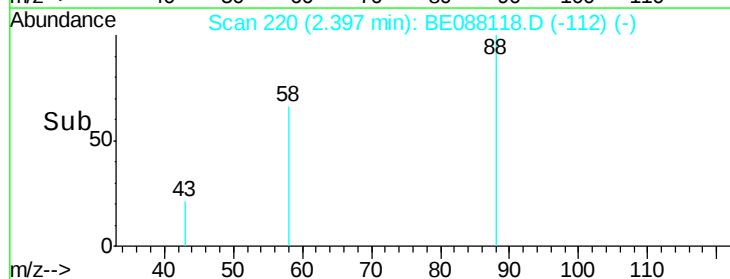
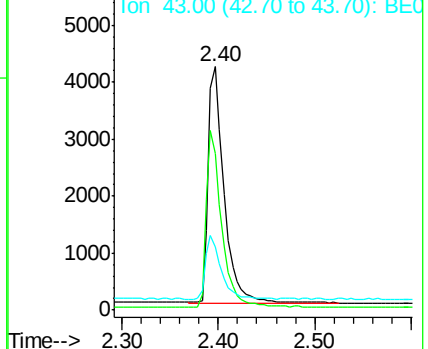
43 26.5 21.2 31.8

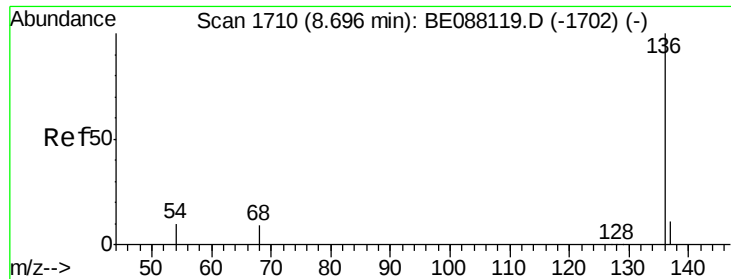


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

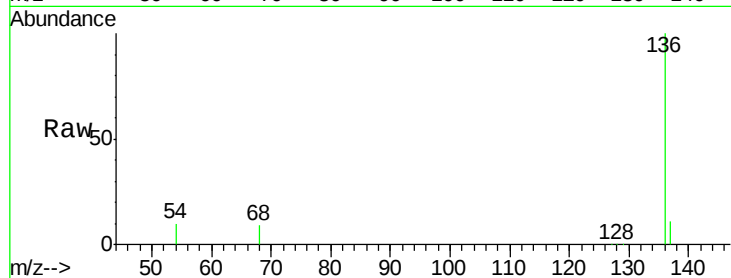
Tgt Ion: 136 Resp: 172879

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

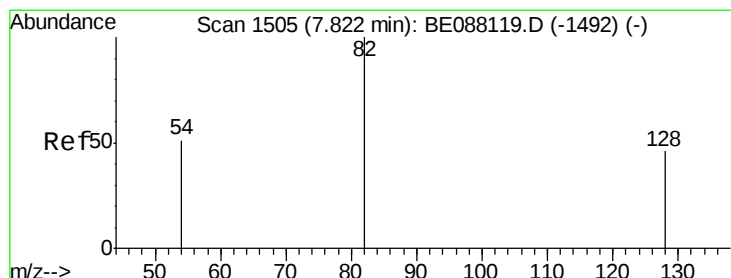
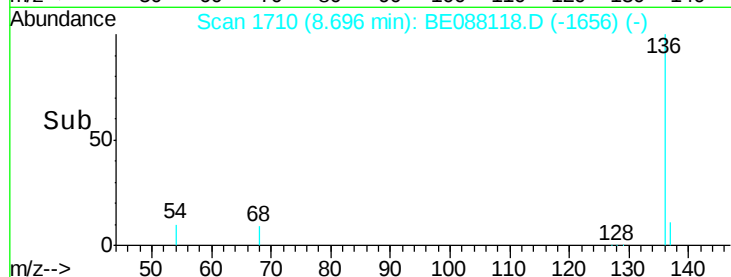
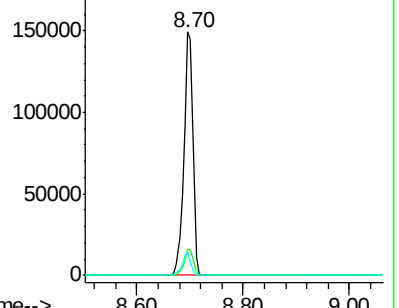
54 9.6 7.7 11.5



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): BE0



#4

Nitrobenzene-d5

Concen: 0.86 ng

RT: 7.82 min Scan# 1505

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

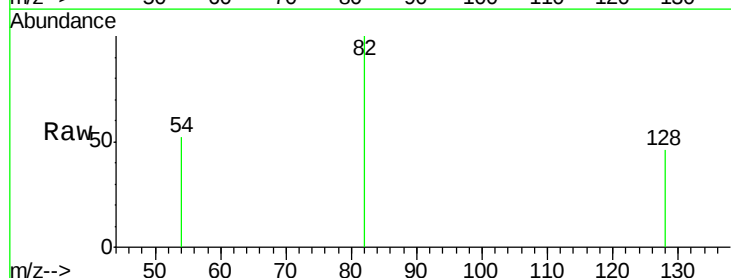
Tgt Ion: 82 Resp: 8985

Ion Ratio Lower Upper

82 100

128 46.4 37.1 55.7

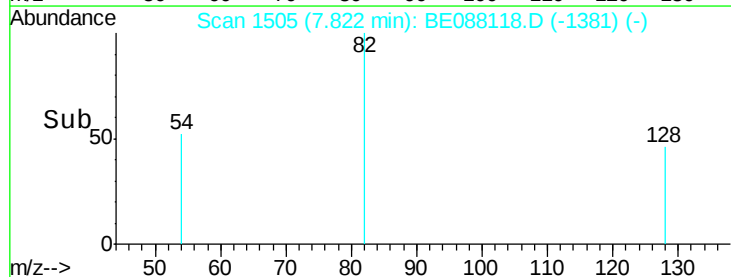
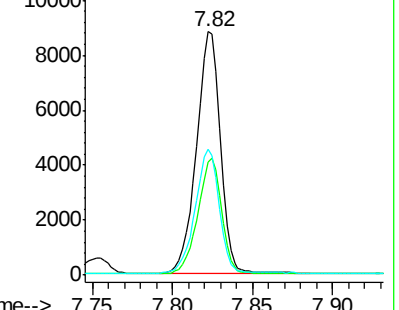
54 51.9 41.1 61.7



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: 0.75 ng

RT: 8.72 min Scan# 1715

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.8

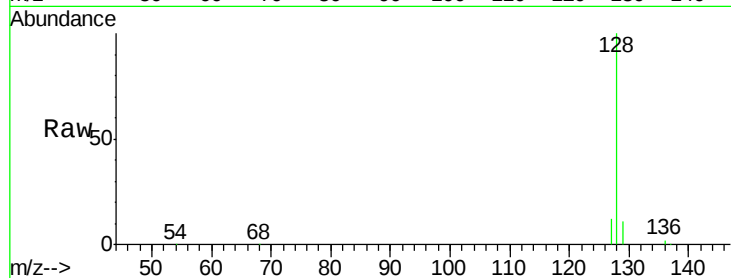
Tgt Ion:128 Resp: 26130

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

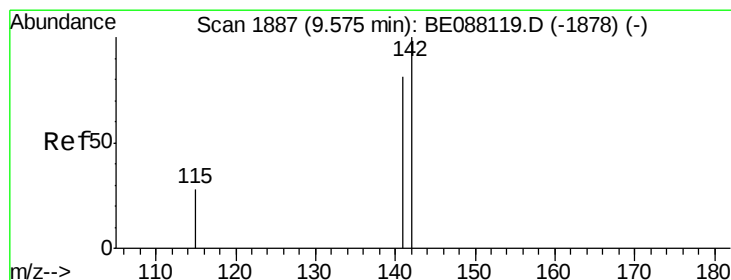
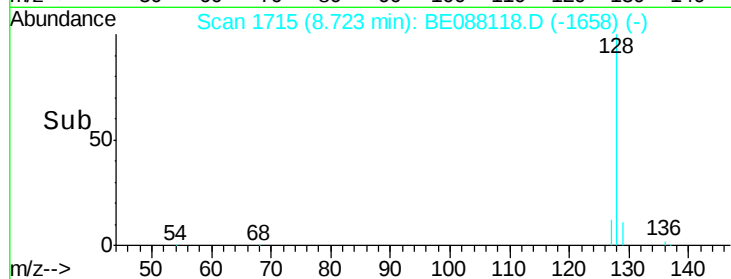
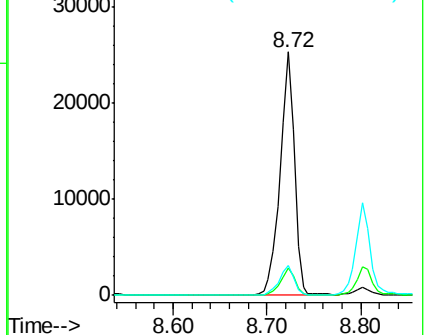
127 12.1 9.7 14.5



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: 0.77 ng

RT: 9.58 min Scan# 1887

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

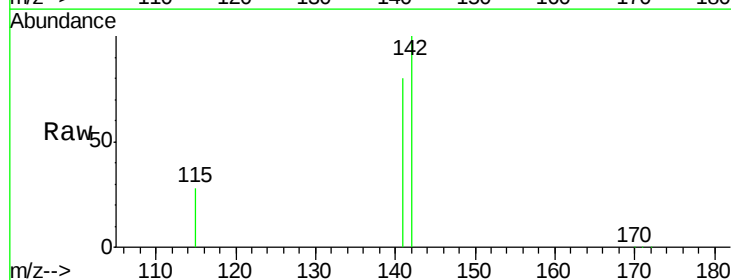
Tgt Ion:142 Resp: 15847

Ion Ratio Lower Upper

142 100

141 80.0 64.6 97.0

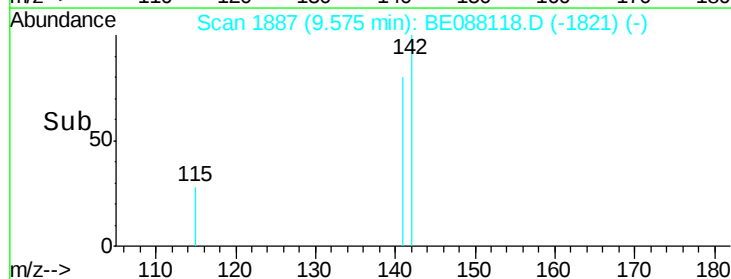
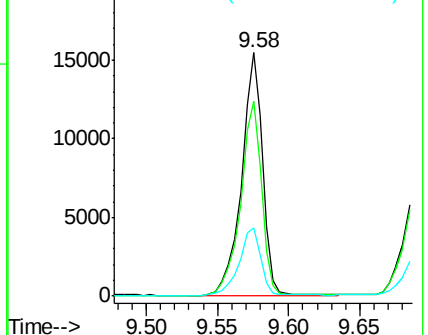
115 28.1 22.6 34.0



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: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

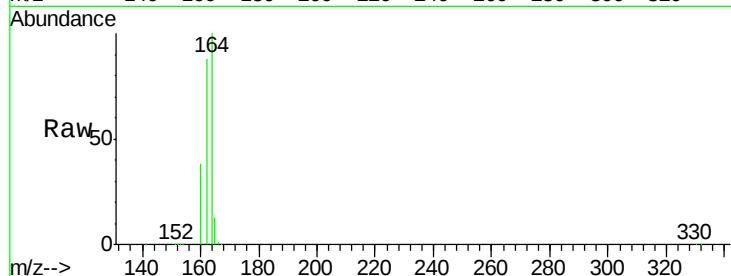
Tgt Ion:164 Resp: 77716

Ion Ratio Lower Upper

164 100

162 88.0 68.3 102.5

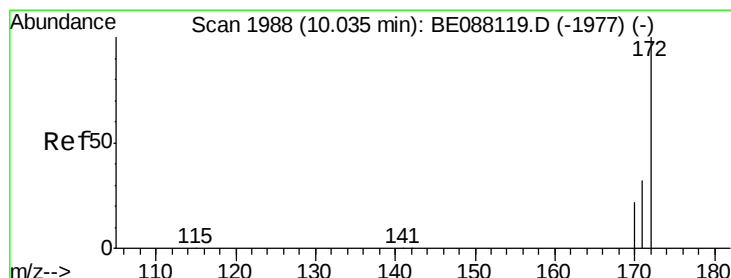
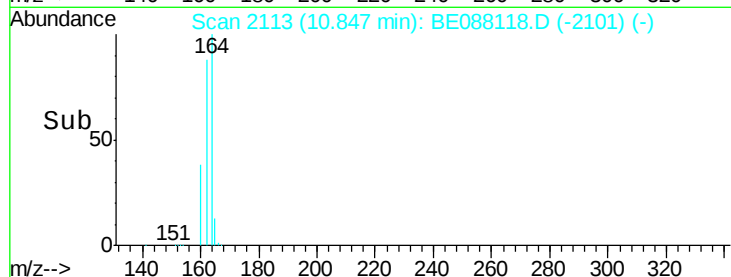
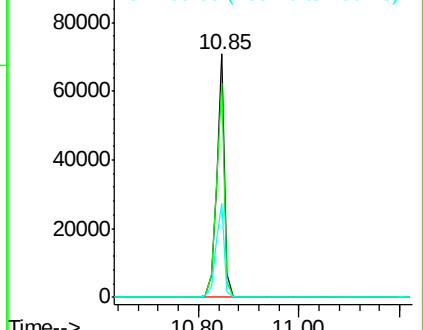
160 38.3 28.7 43.1



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: 0.74 ng

RT: 10.04 min Scan# 1988

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

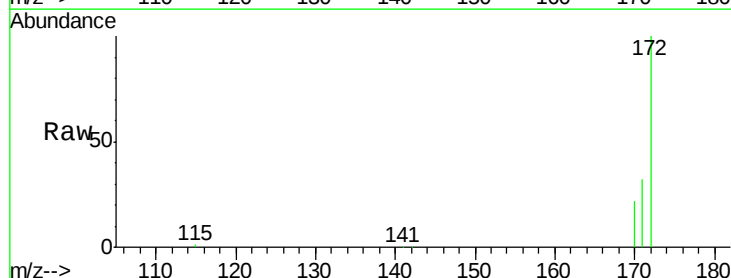
Tgt Ion:172 Resp: 15889

Ion Ratio Lower Upper

172 100

171 31.7 25.4 38.2

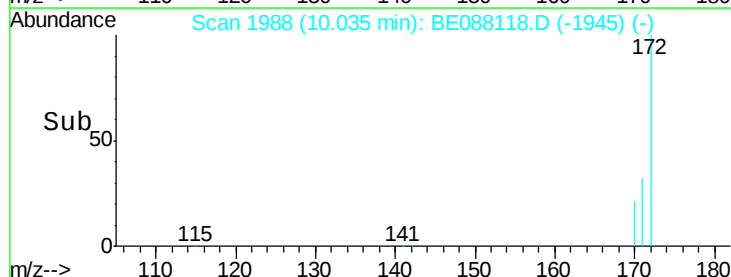
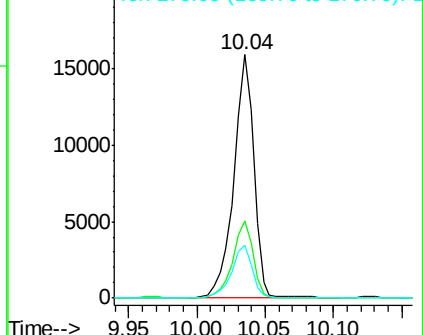
170 21.6 17.4 26.2

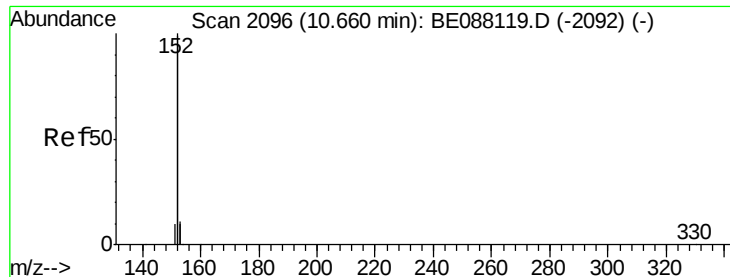


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.81 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.8

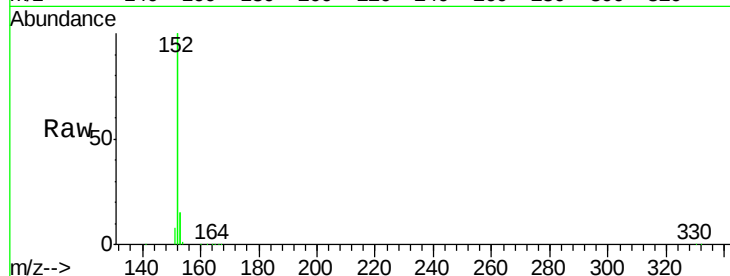
Tgt Ion:152 Resp: 88834

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

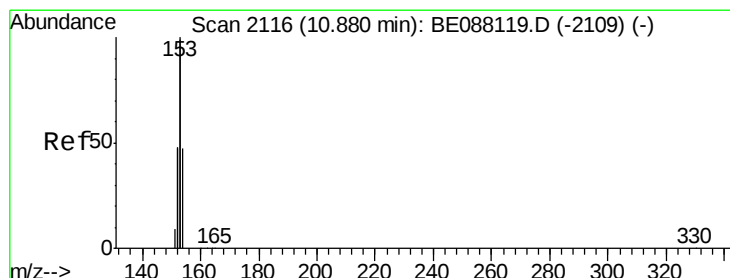
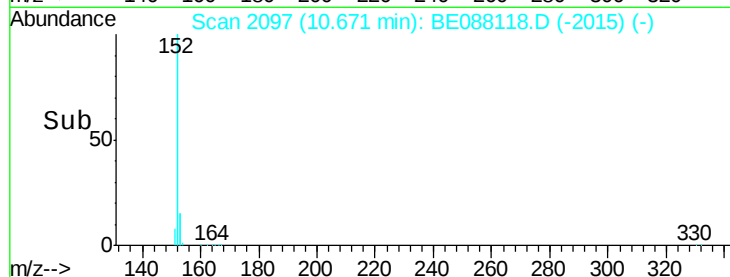
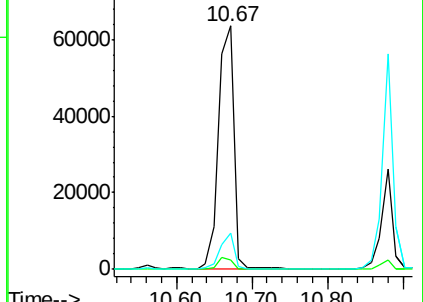
153 13.0 10.4 15.6



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: 0.75 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

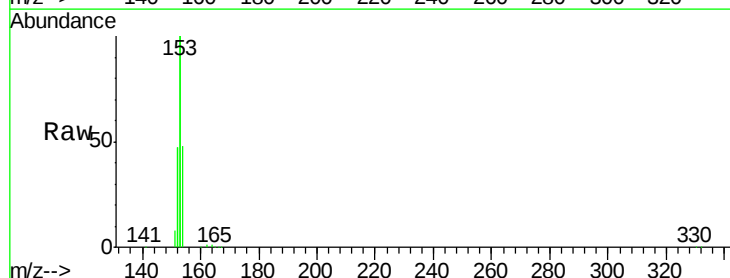
Tgt Ion:154 Resp: 13506

Ion Ratio Lower Upper

154 100

153 404.2 327.8 491.6

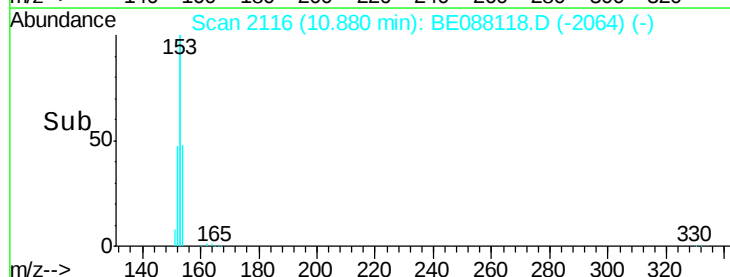
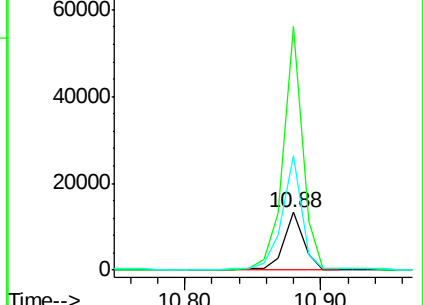
152 190.7 157.6 236.4



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: 0.79 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

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ClientSampleId :

SSTDIC0.8

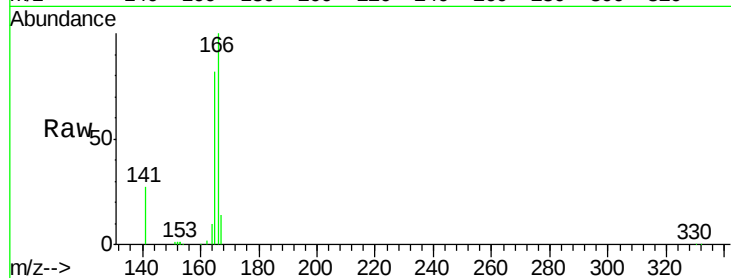
Tgt Ion:166 Resp: 14481

Ion Ratio Lower Upper

166 100

165 89.4 71.4 107.2

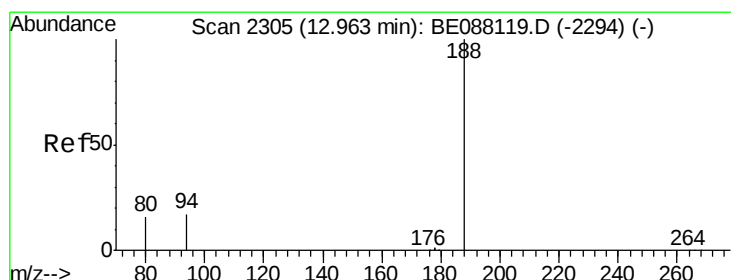
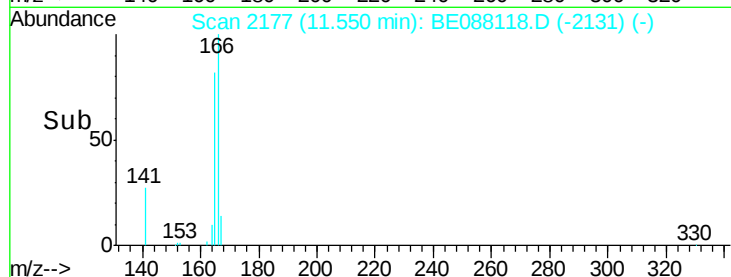
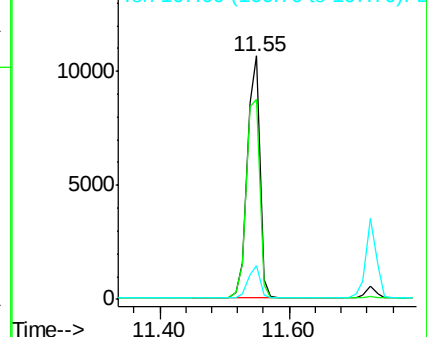
167 13.2 10.6 16.0



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: 12.96 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

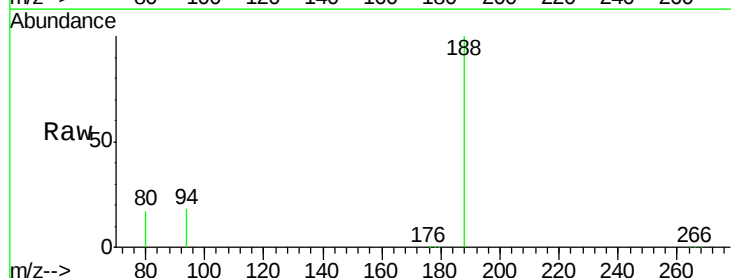
Tgt Ion:188 Resp: 143001

Ion Ratio Lower Upper

188 100

94 17.9 13.9 20.9

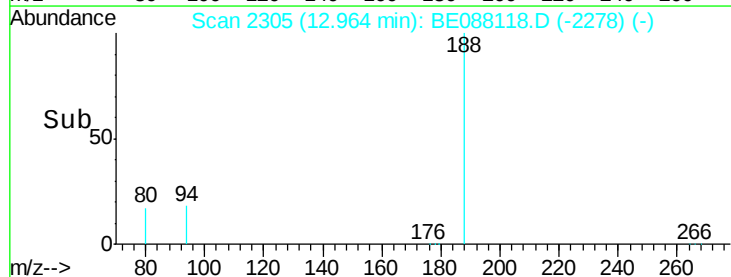
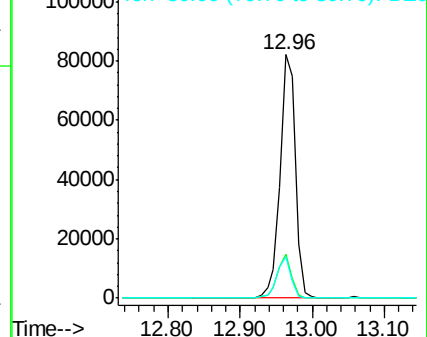
80 16.9 12.9 19.3

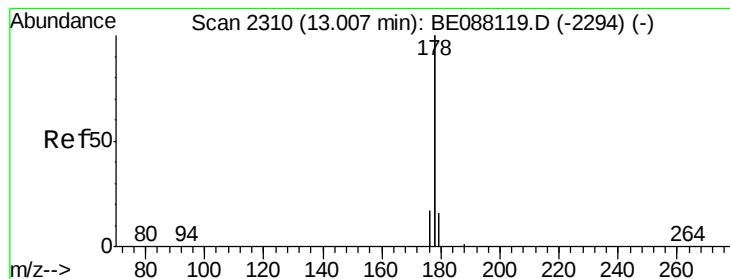


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.77 ng

RT: 13.01 min Scan# 2310

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

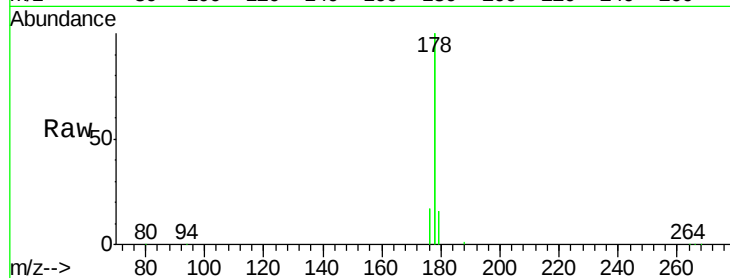
Tgt Ion:178 Resp: 103289

Ion Ratio Lower Upper

178 100

176 15.7 12.5 18.7

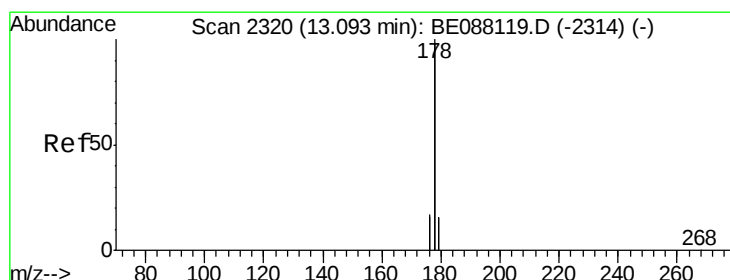
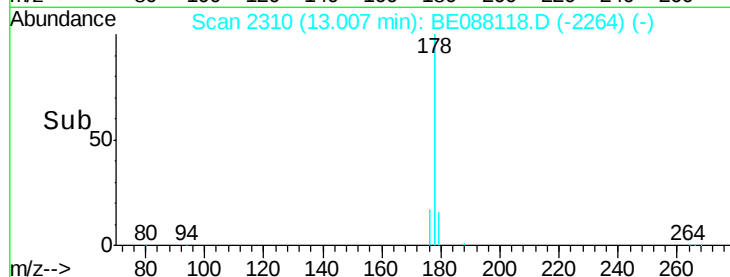
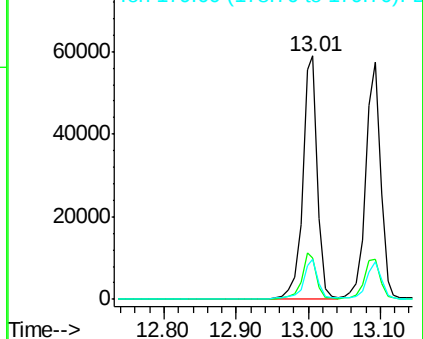
179 17.5 13.5 20.3



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: 0.70 ng

RT: 13.09 min Scan# 2320

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

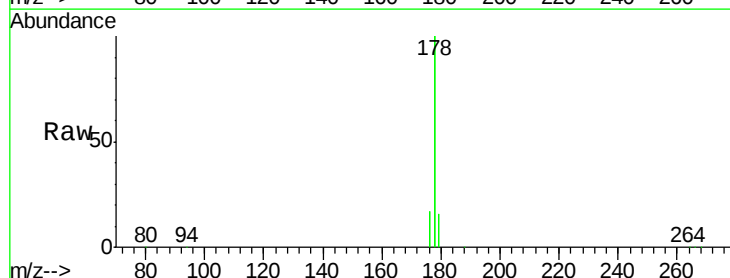
Tgt Ion:178 Resp: 81712

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

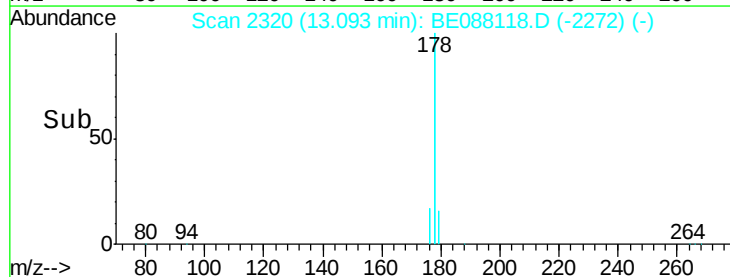
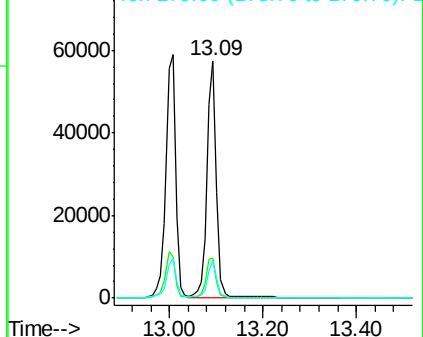
179 15.6 12.5 18.7

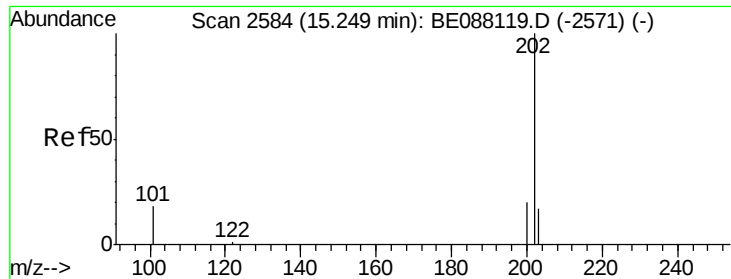


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

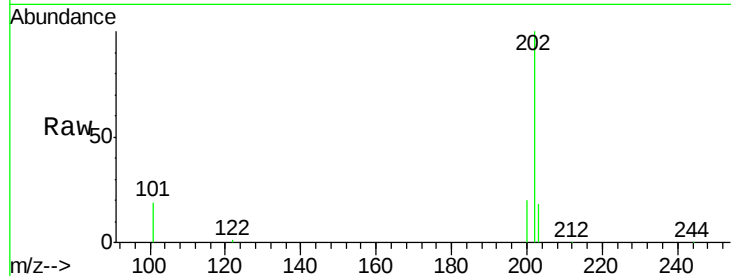




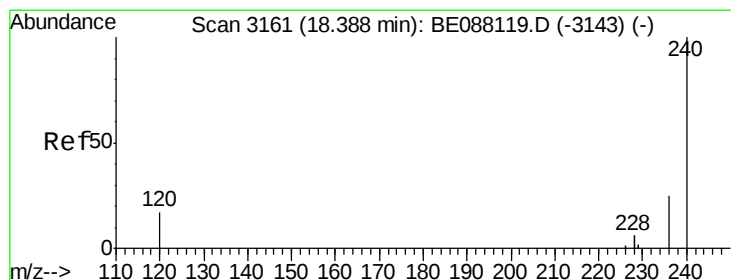
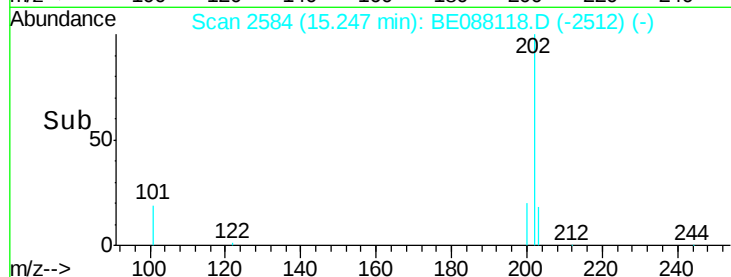
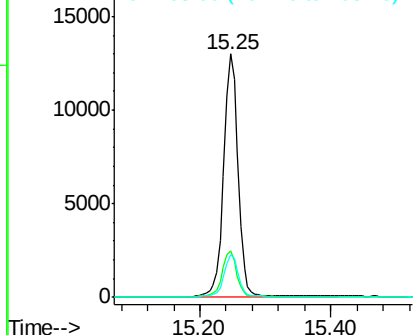
#15
 Fluoranthene
 Concen: 0.70 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. -0.00 min
 Lab File: BE088118.D
 Acq: 20 Oct 2014 21:15

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.8

Tgt Ion: 202 Resp: 19611
 Ion Ratio Lower Upper
 202 100
 101 18.6 14.8 22.2
 203 17.2 13.5 20.3

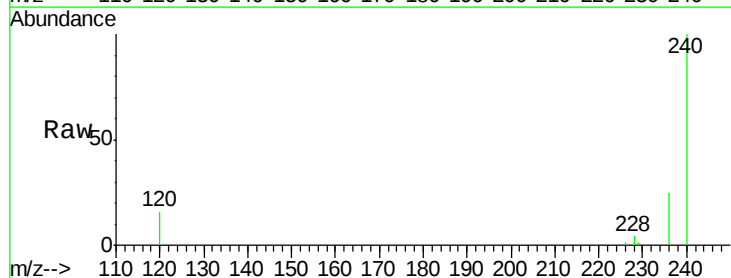


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

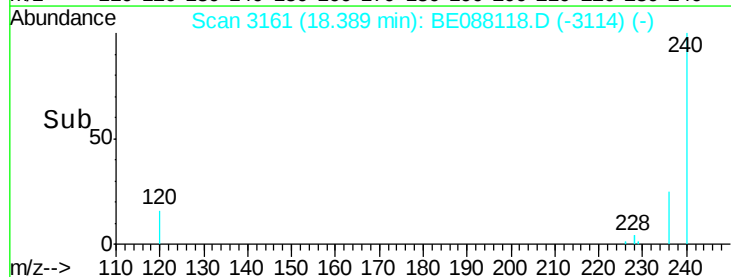
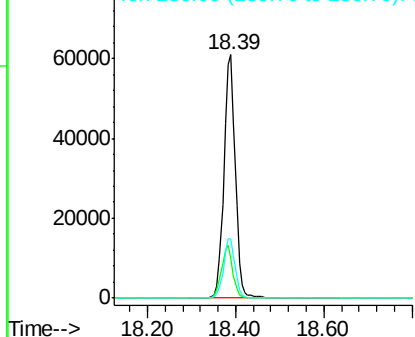


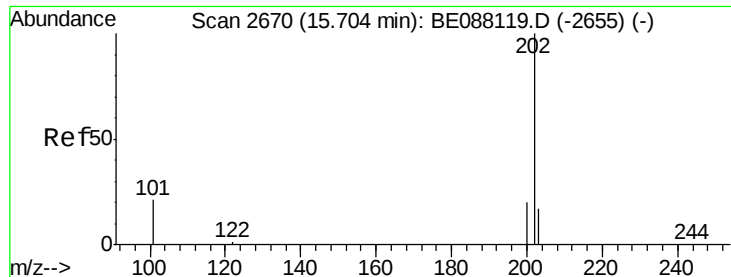
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3161
 Delta R.T. 0.00 min
 Lab File: BE088118.D
 Acq: 20 Oct 2014 21:15

Tgt Ion: 240 Resp: 109522
 Ion Ratio Lower Upper
 240 100
 120 16.3 13.9 20.9
 236 24.6 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

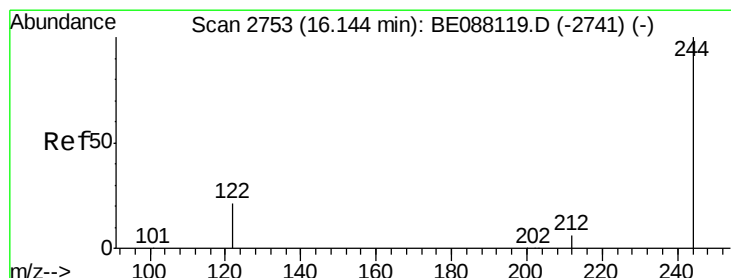
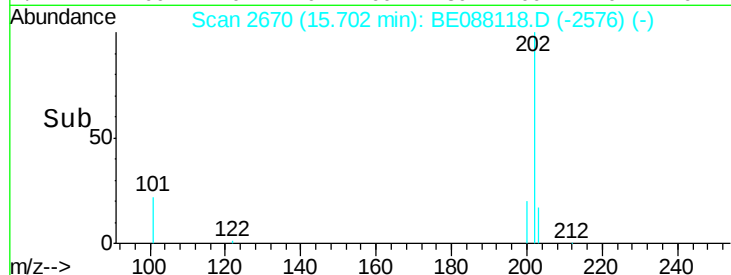
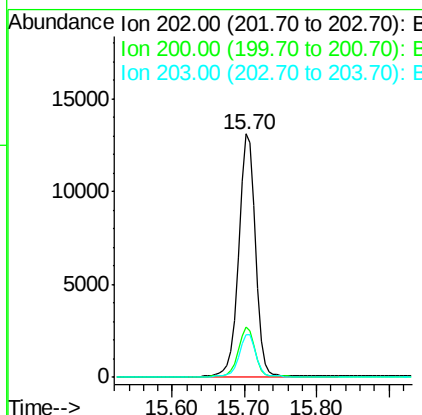
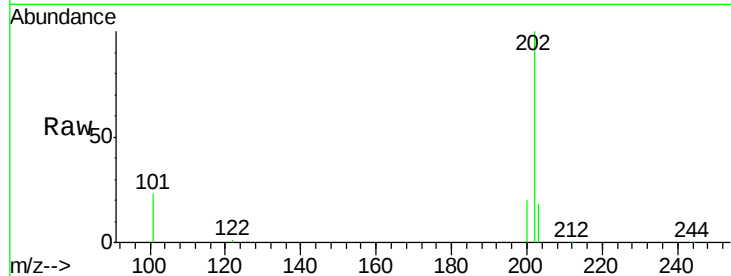




#17
 Pyrene
 Concen: 0.74 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.00 min
 Lab File: BE088118.D
 Acq: 20 Oct 2014 21:15

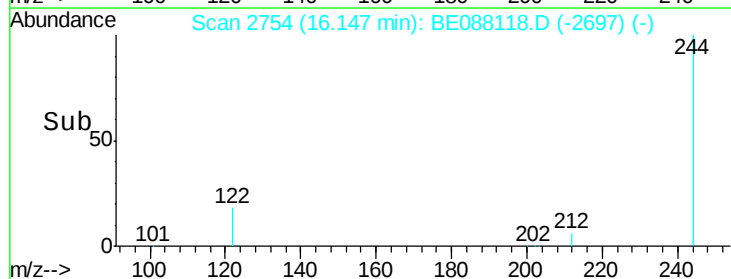
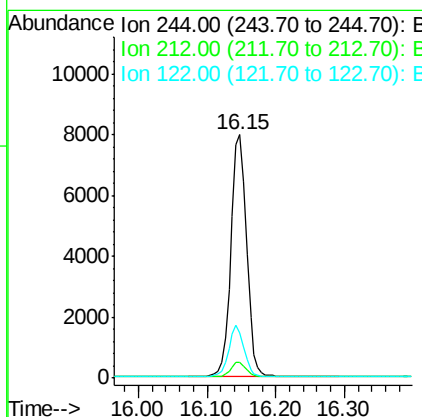
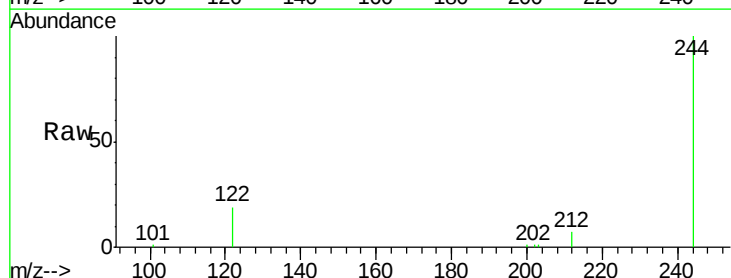
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.8

Tgt Ion: 202 Resp: 20879
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.1 24.1
 203 17.3 13.9 20.9



#18
 Terphenyl-d14
 Concen: 0.74 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: BE088118.D
 Acq: 20 Oct 2014 21:15

Tgt Ion: 244 Resp: 12639
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.0
 122 18.8 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.80 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

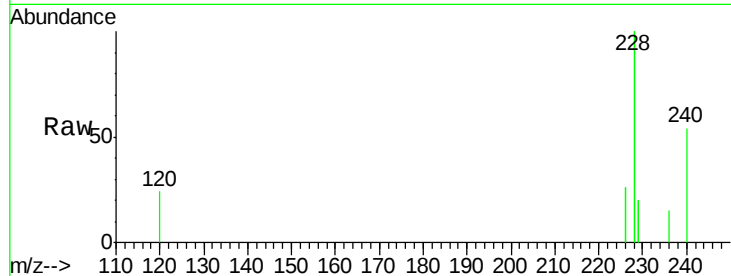
Tgt Ion:228 Resp: 67217

Ion Ratio Lower Upper

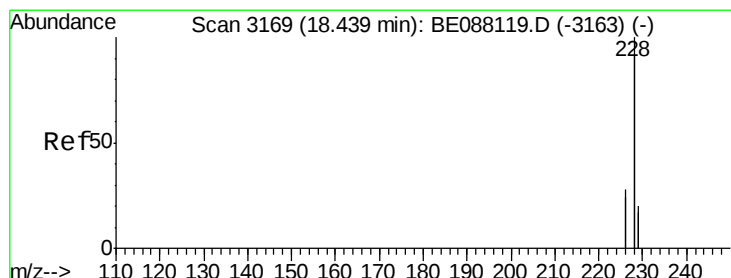
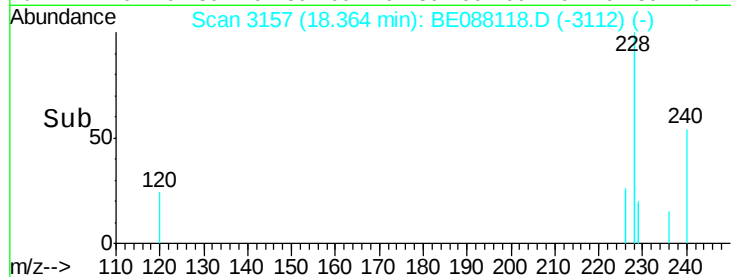
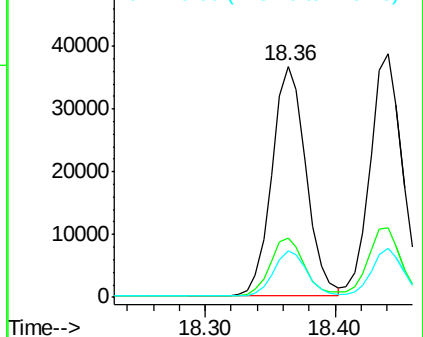
228 100

226 25.8 20.8 31.2

229 20.0 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: 0.66 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

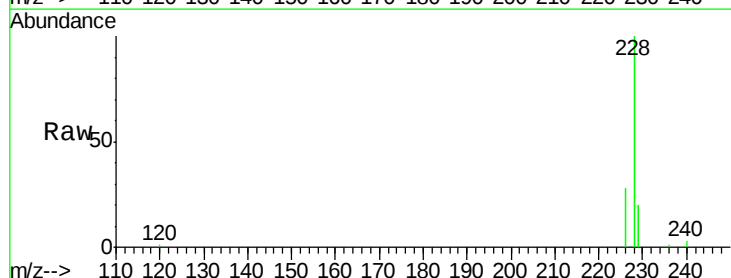
Tgt Ion:228 Resp: 67949

Ion Ratio Lower Upper

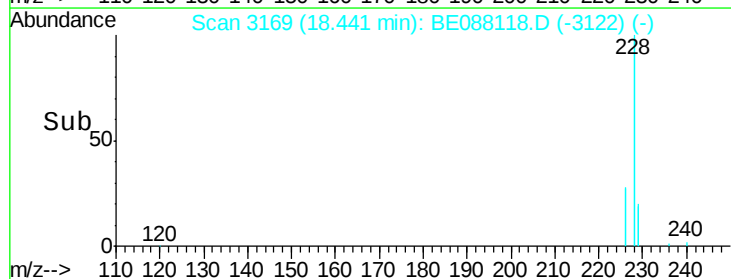
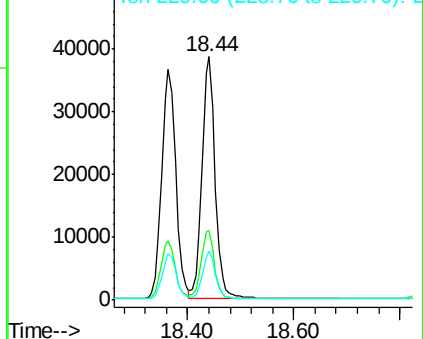
228 100

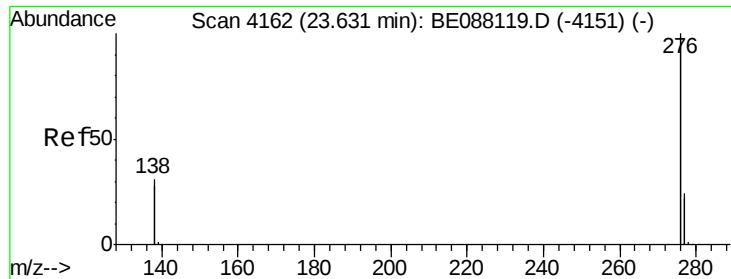
226 28.4 22.7 34.1

229 20.1 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: 0.73 ng

RT: 23.63 min Scan# 4162

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

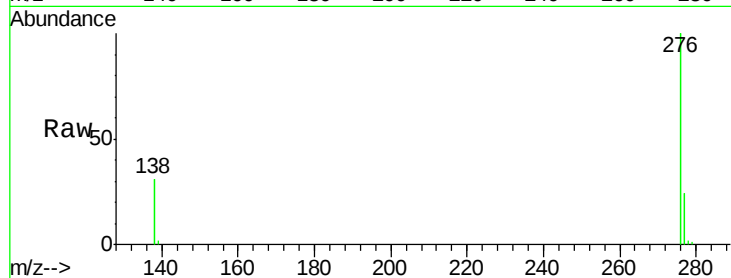
Tgt Ion:276 Resp: 60730

Ion Ratio Lower Upper

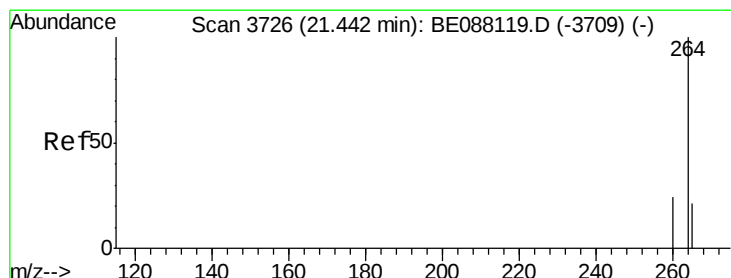
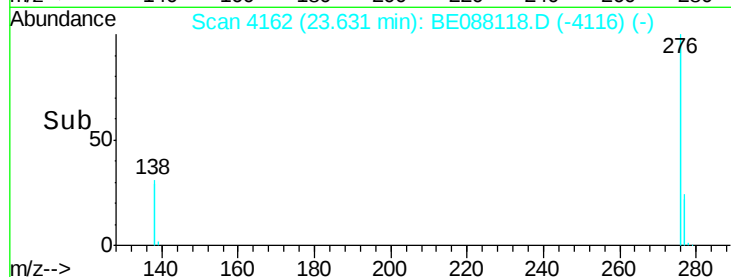
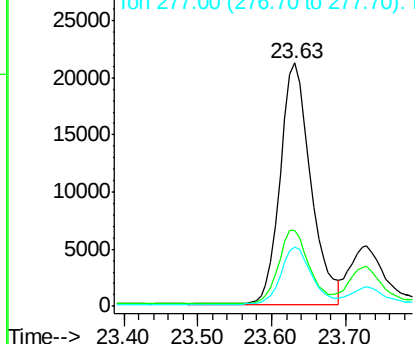
276 100

138 30.6 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# 3727

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

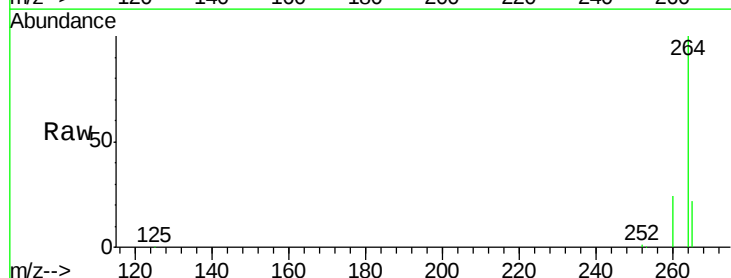
Tgt Ion:264 Resp: 101919

Ion Ratio Lower Upper

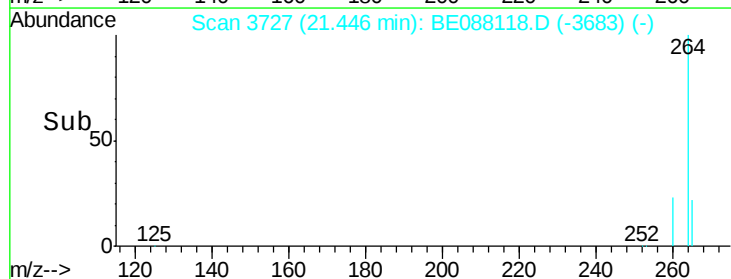
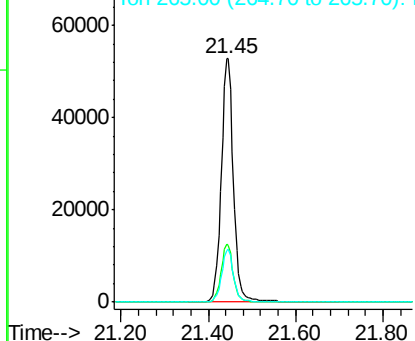
264 100

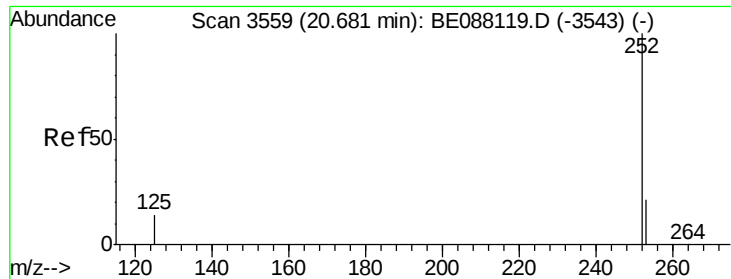
260 23.5 19.0 28.4

265 21.7 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: 0.91 ng

RT: 20.68 min Scan# 3559

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

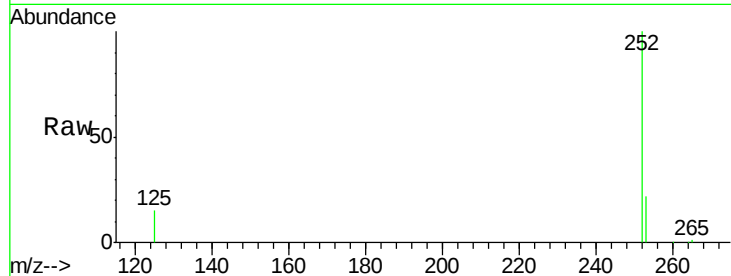
Tgt Ion:252 Resp: 17298

Ion Ratio Lower Upper

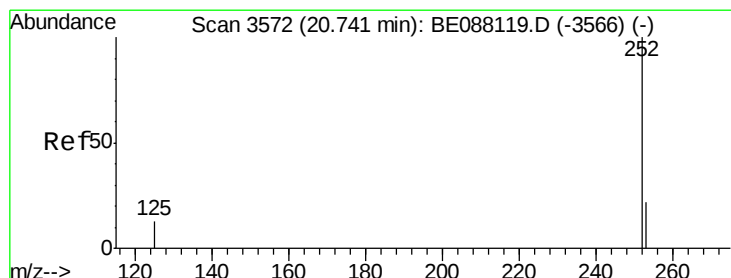
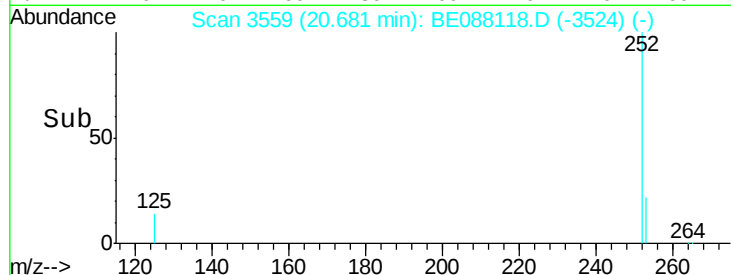
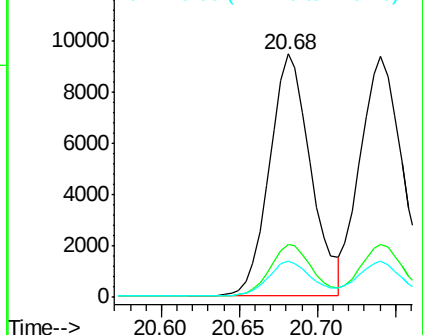
252 100

253 22.0 17.4 26.0

125 14.9 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: 0.70 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

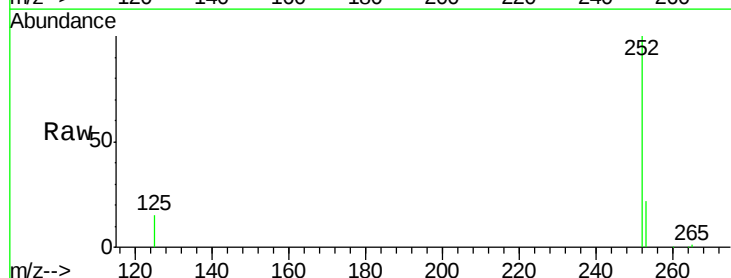
Tgt Ion:252 Resp: 18711

Ion Ratio Lower Upper

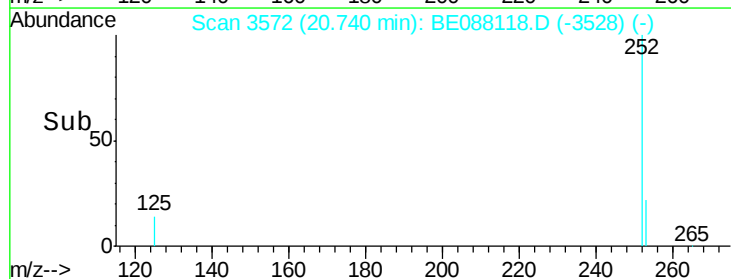
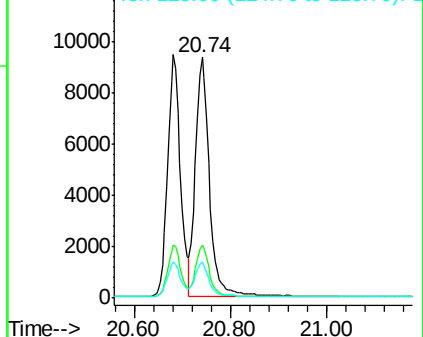
252 100

253 22.1 17.6 26.4

125 14.8 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

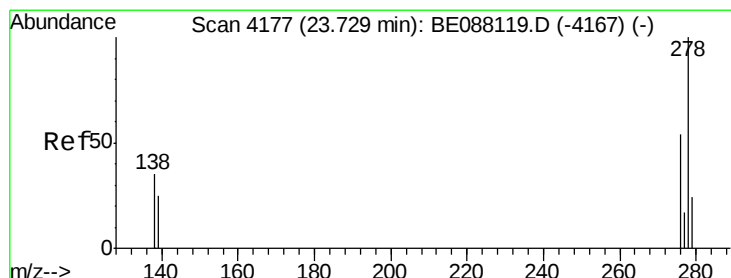
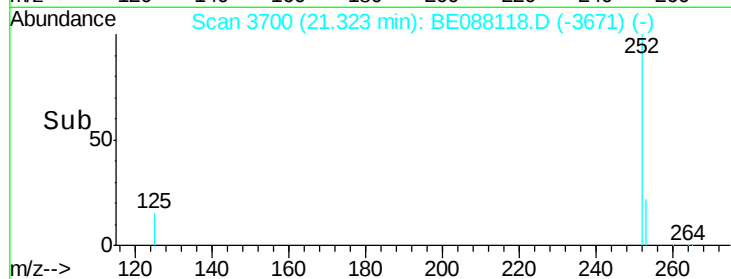
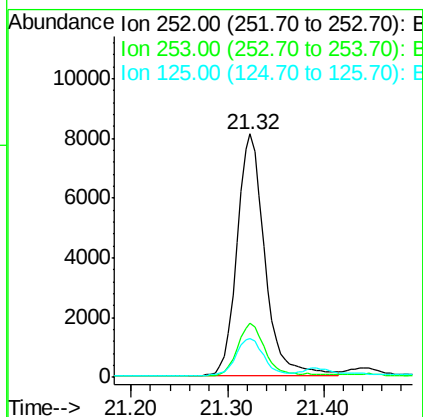
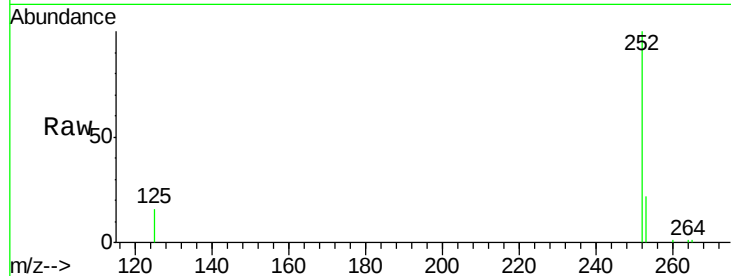




#25
Benzo(a)pyrene
Concen: 0.98 ng
RT: 21.32 min Scan# 3700
Delta R.T. -0.00 min
Lab File: BE088118.D
Acq: 20 Oct 2014 21:15

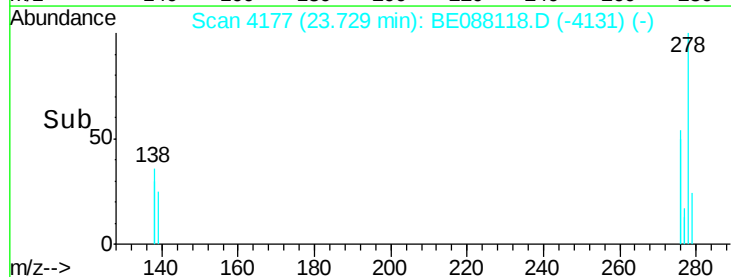
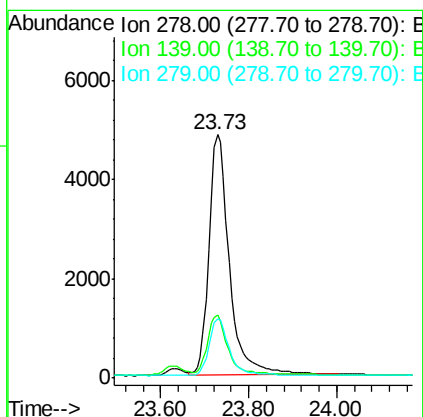
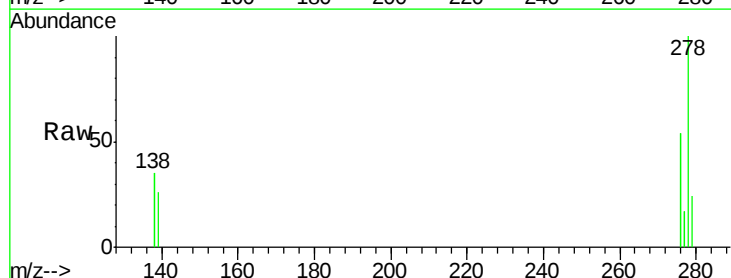
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.8

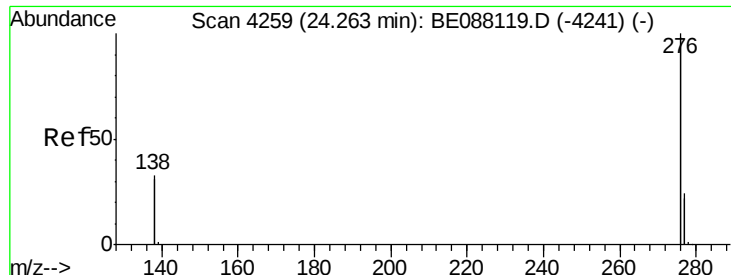
Tgt Ion:252 Resp: 16061
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 16.2 13.0 19.6



#26
Dibenzo(a,h)anthracene
Concen: 0.89 ng
RT: 23.73 min Scan# 4177
Delta R.T. 0.00 min
Lab File: BE088118.D
Acq: 20 Oct 2014 21:15

Tgt Ion:278 Resp: 15581
Ion Ratio Lower Upper
278 100
139 26.1 20.9 31.3
279 24.4 19.8 29.8





#27

Benzo(g,h,i)perylene

Concen: 0.81 ng

RT: 24.26 min Scan# 4259

Delta R.T. 0.00 min

Lab File: BE088118.D

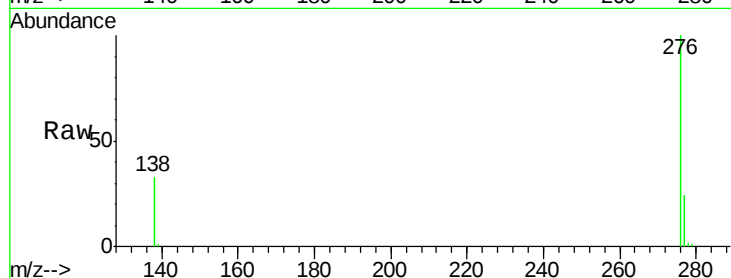
Acq: 20 Oct 2014 21:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8



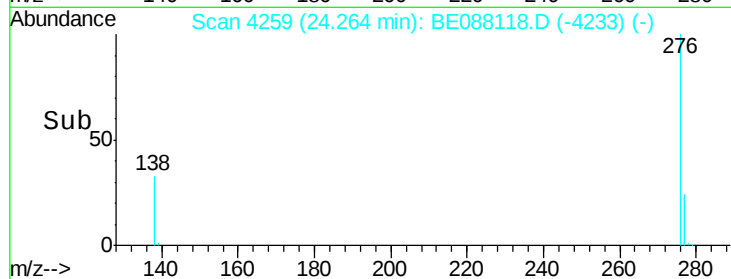
Tgt Ion: 276 Resp: 68276

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 32.8 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

