

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088437.D
 Acq On : 1 Nov 2014 00:16
 Operator : TP/JJ
 Sample : F4368-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS34-1014

Quant Time: Nov 01 03:14:59 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	45177	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	160436	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	65295	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	120054	5.00	ng	0.00
16) Chrysene-d12	18.31	240	62139	5.00	ng	0.00
22) Perylene-d12	21.37	264	57360	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.79	82	736298	62.58	ng	0.02
8) 2-Fluorobiphenyl	9.99	172	740530	40.24	ng	0.00
18) Terphenyl-d14	16.10	244	442132	38.73	ng	0.02

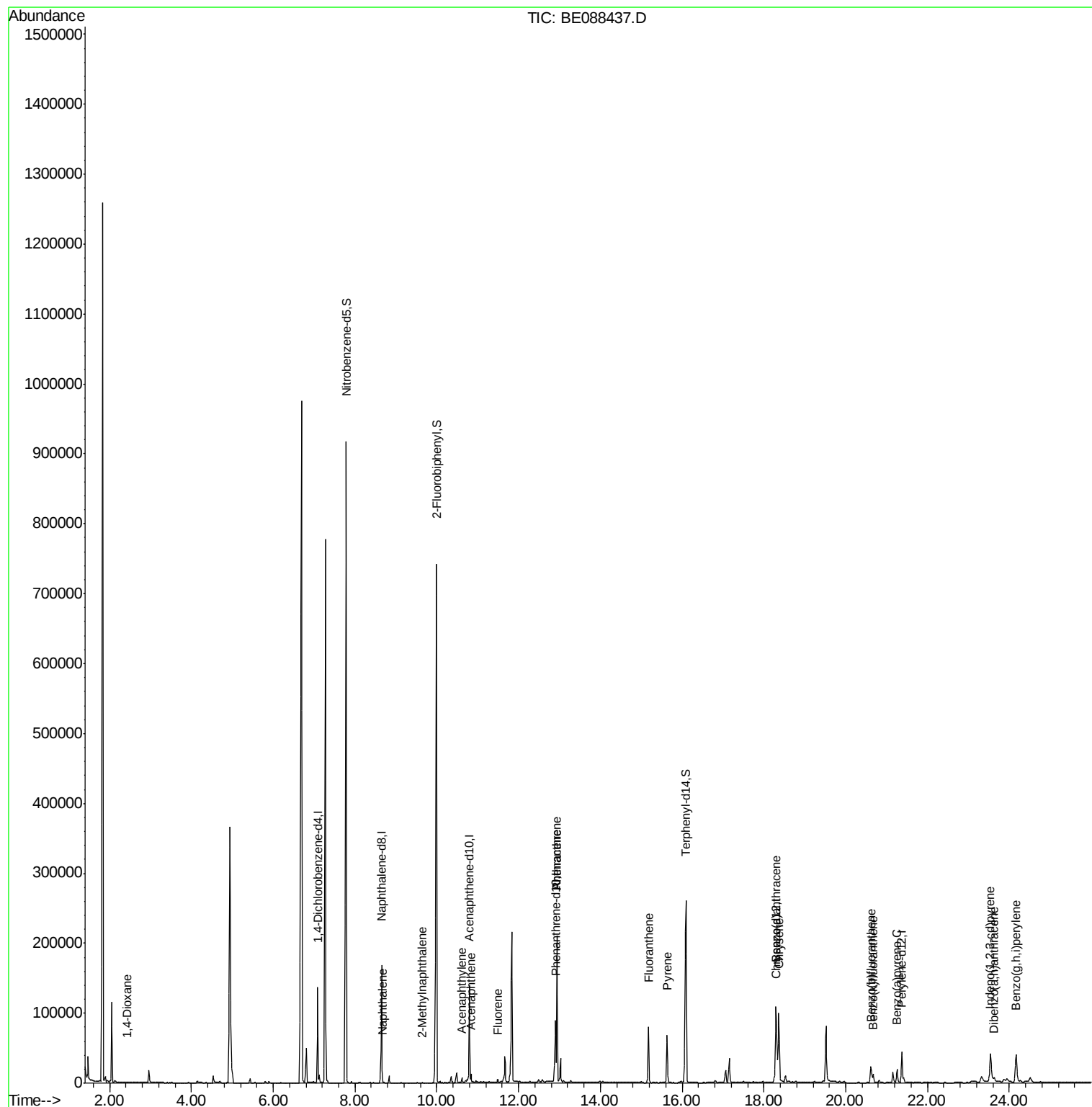
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.43	88	129	0.02	ng	# 64
5) Naphthalene	8.67	128	2133	0.06	ng	# 94
6) 2-Methylnaphthalene	9.64	142	571	0.03	ng	94
9) Acenaphthylene	10.62	152	5290	0.05	ng	# 94
10) Acenaphthene	10.84	154	2532	0.16	ng	92
11) Fluorene	11.49	166	2141	0.13	ng	98
13) Phenanthrene	12.94	178	259655	2.38	ng	99
14) Anthracene	12.94	178	259655	2.95	ng	98
15) Fluoranthene	15.18	202	78575	4.44	ng	100
17) Pyrene	15.63	202	67473	3.33	ng	97
19) Benzo(a)anthracene	18.29	228	119635	2.05	ng	98
20) Chrysene	18.36	228	137304	2.39	ng	98
21) Indeno(1,2,3-cd)pyrene	23.54	276	78465	1.47	ng	# 91
23) Benzo(b)fluoranthene	20.61	252	41152	3.27	ng	98
24) Benzo(k)fluoranthene	20.67	252	15735	1.14	ng	98
25) Benzo(a)pyrene	21.26	252	26316	2.18	ng	99
26) Dibenzo(a,h)anthracene	23.63	278	3832	0.34	ng	# 87
27) Benzo(g,h,i)perylene	24.17	276	75118	1.46	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# 1246

Delta R.T. -0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

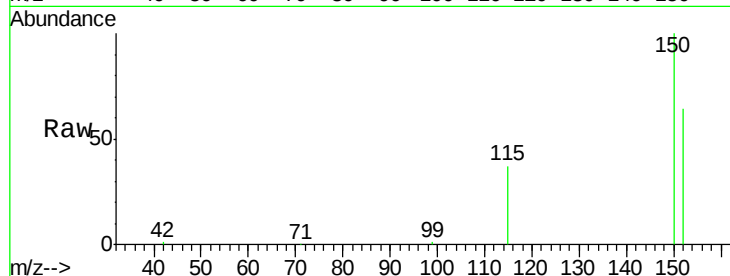
Tgt Ion:152 Resp: 45177

Ion Ratio Lower Upper

152 100

150 156.4 121.8 182.8

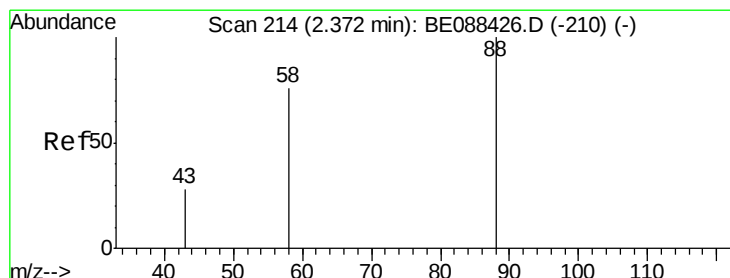
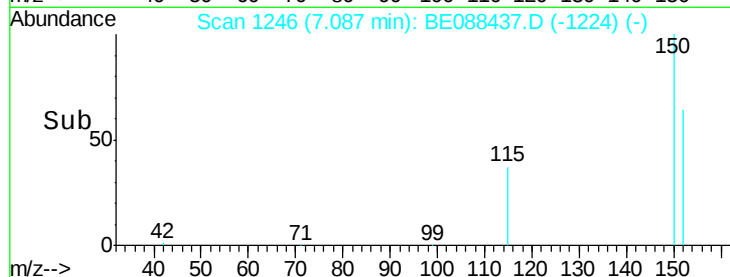
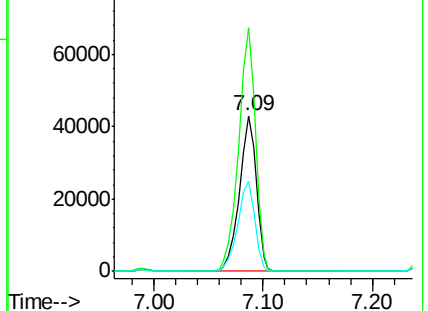
115 57.8 43.9 65.9



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: 0.02 ng

RT: 2.43 min Scan# 228

Delta R.T. 0.06 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

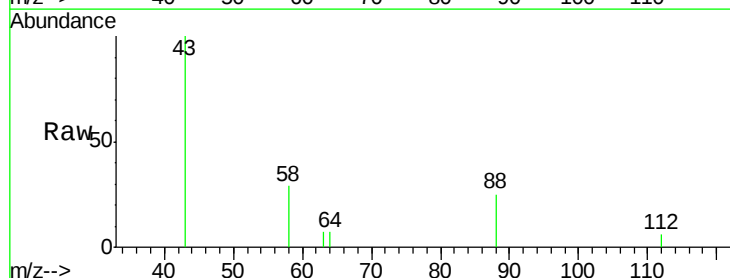
Tgt Ion: 88 Resp: 129

Ion Ratio Lower Upper

88 100

58 99.2 59.1 88.7#

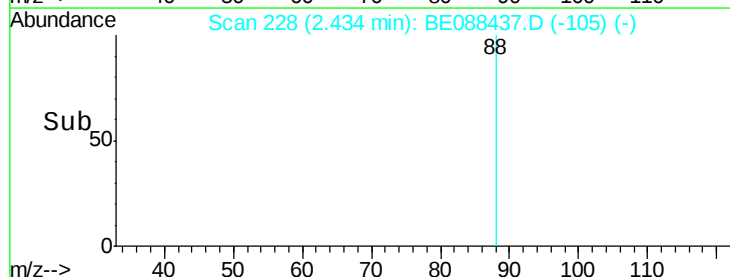
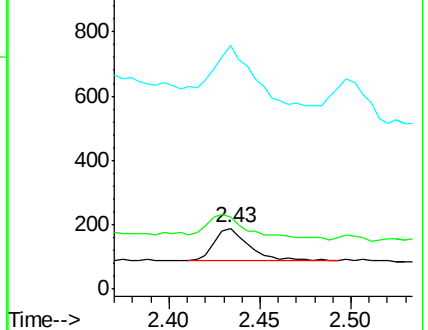
43 0.0 21.9 32.9#

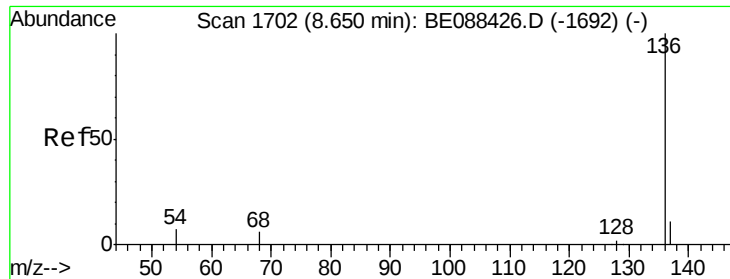


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

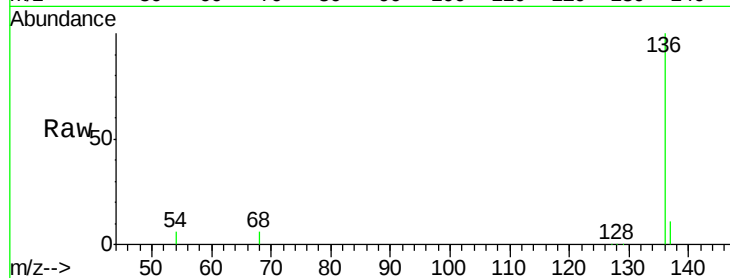
Tgt Ion: 136 Resp: 160436

Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

54 6.4 5.3 7.9

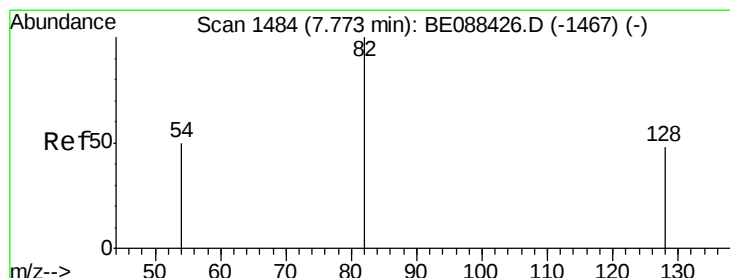
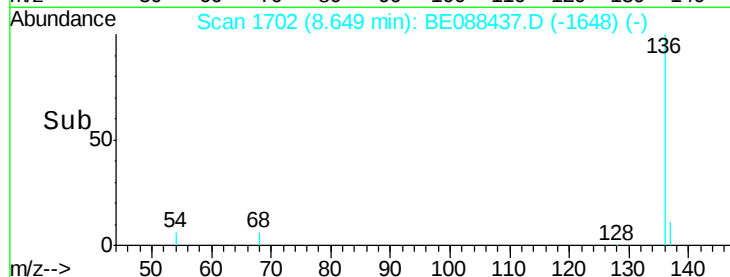


Abundance Ion 136.00 (135.70 to 136.70): BE088426.D (-1692) (-)

Ion 137.00 (136.70 to 137.70): BE088426.D (-1692) (-)

Ion 54.00 (53.70 to 54.70): BE088426.D (-1692) (-)

Time-->



#4

Nitrobenzene-d5

Concen: 62.58 ng

RT: 7.79 min Scan# 1491

Delta R.T. 0.02 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

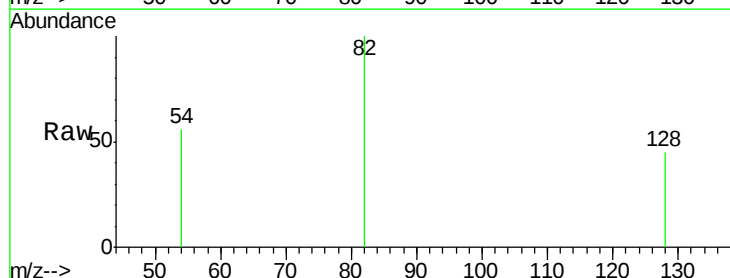
Tgt Ion: 82 Resp: 736298

Ion Ratio Lower Upper

82 100

128 45.4 38.4 57.6

54 55.5 40.2 60.2

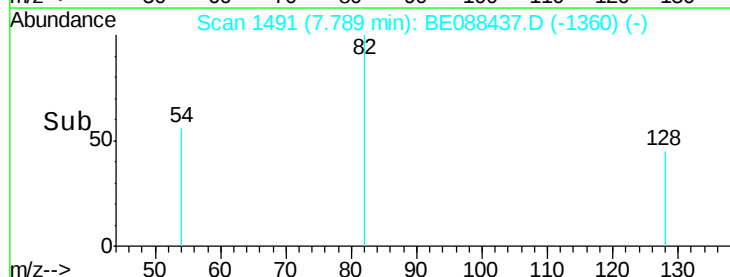


Abundance Ion 82.00 (81.70 to 82.70): BE088426.D (-1467) (-)

Ion 128.00 (127.70 to 128.70): BE088426.D (-1467) (-)

Ion 54.00 (53.70 to 54.70): BE088426.D (-1467) (-)

Time-->

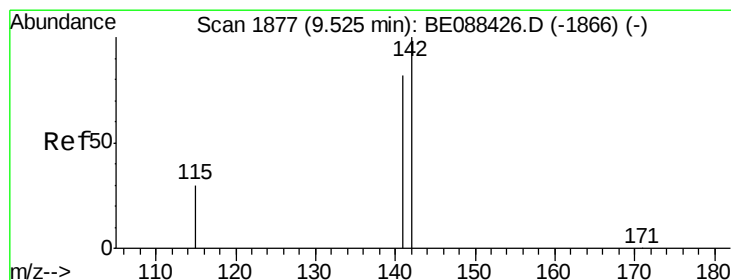
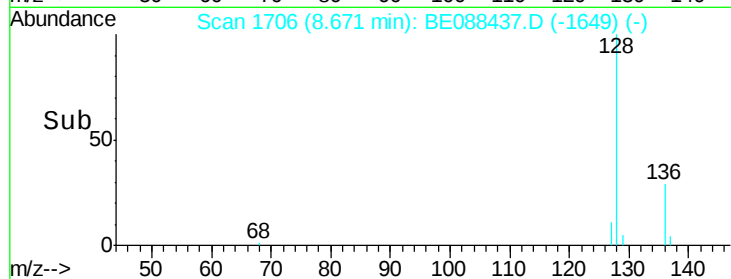
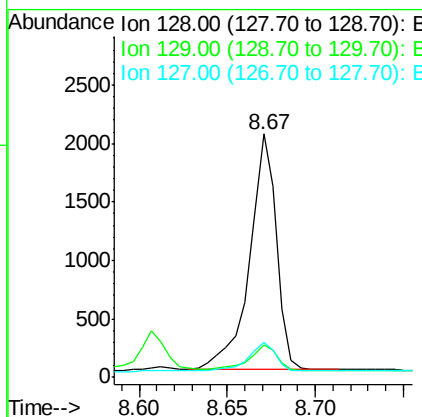
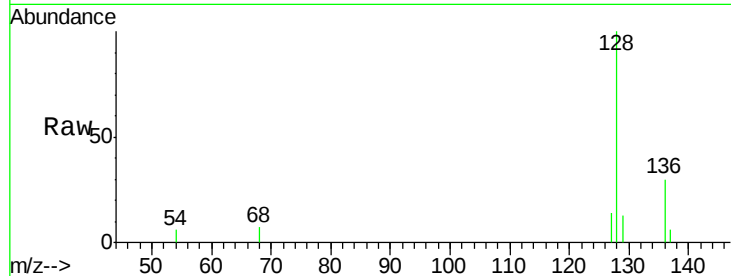




#5
Naphthalene
Concen: 0.06 ng
RT: 8.67 min Scan# 1706
Delta R.T. -0.00 min
Lab File: BE088437.D
Acq: 1 Nov 2014 00:16

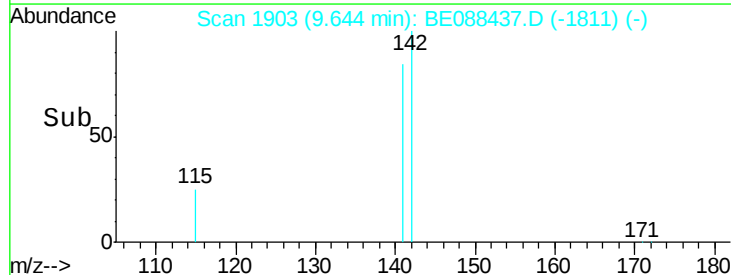
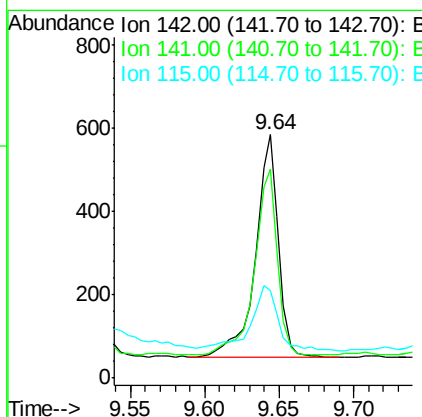
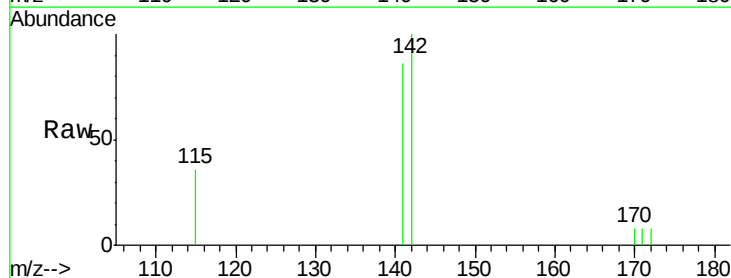
Instrument :
BNA_E
ClientSampleId :
YS19-SS34-1014

Tgt Ion:128 Resp: 2133
Ion Ratio Lower Upper
128 100
129 13.3 8.6 12.8#
127 14.5 10.1 15.1



#6
2-Methylnaphthalene
Concen: 0.03 ng
RT: 9.64 min Scan# 1903
Delta R.T. 0.12 min
Lab File: BE088437.D
Acq: 1 Nov 2014 00:16

Tgt Ion:142 Resp: 571
Ion Ratio Lower Upper
142 100
141 85.8 65.8 98.8
115 36.1 24.2 36.4





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

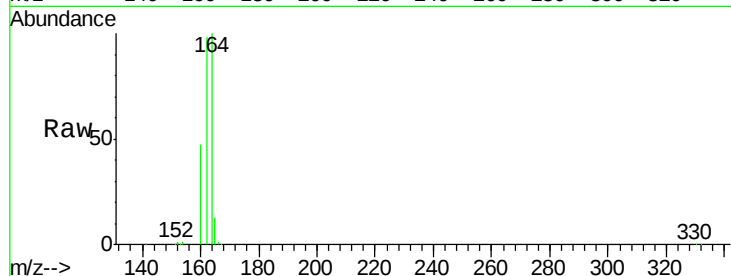
Tgt Ion:164 Resp: 65295

Ion Ratio Lower Upper

164 100

162 97.6 77.0 115.4

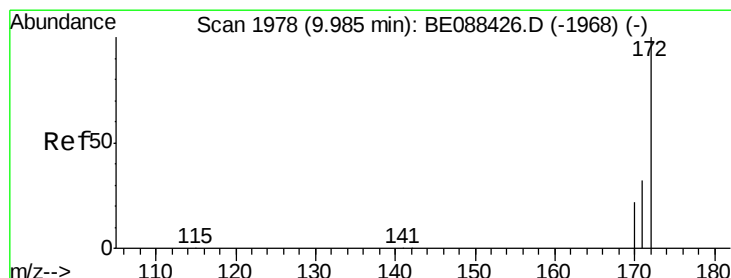
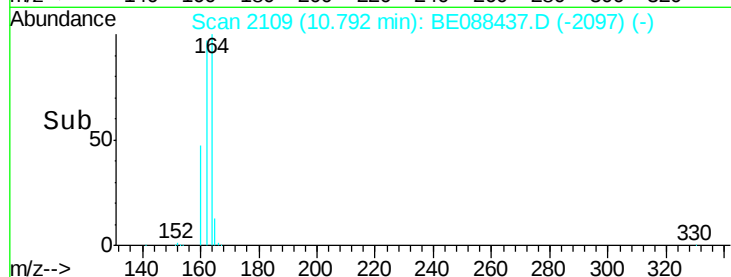
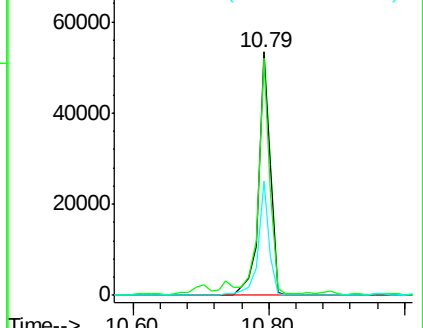
160 46.9 36.8 55.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 40.24 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

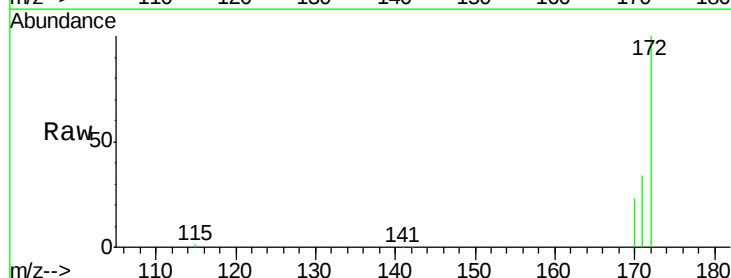
Tgt Ion:172 Resp: 740530

Ion Ratio Lower Upper

172 100

171 33.6 26.0 39.0

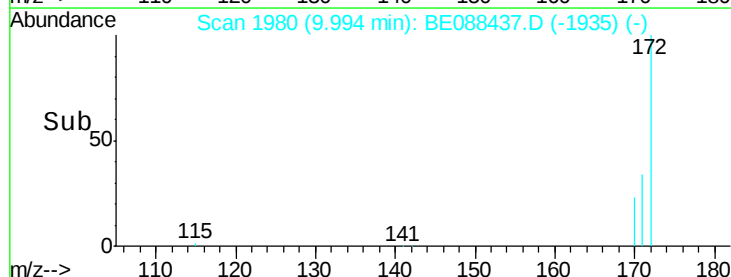
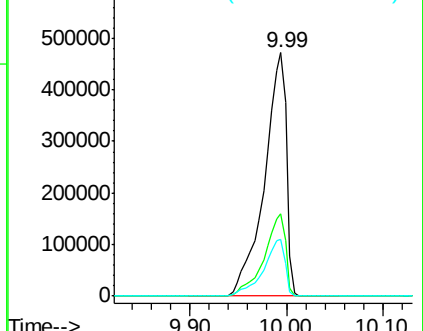
170 23.1 17.6 26.4

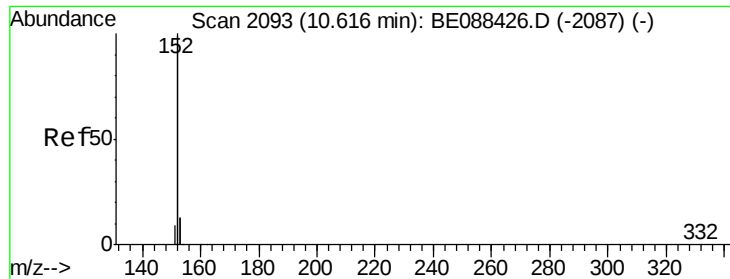


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.05 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

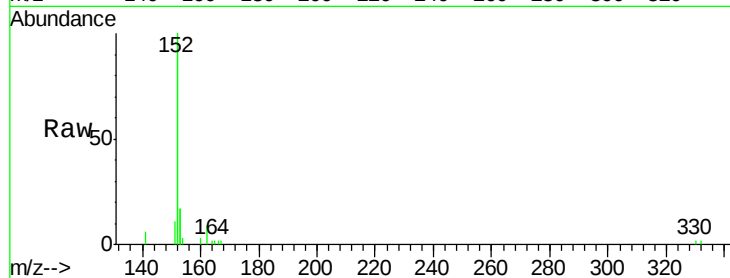
Tgt Ion:152 Resp: 5290

Ion Ratio Lower Upper

152 100

151 4.2 4.4 6.6#

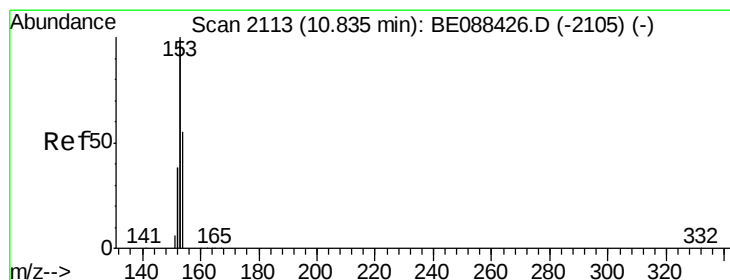
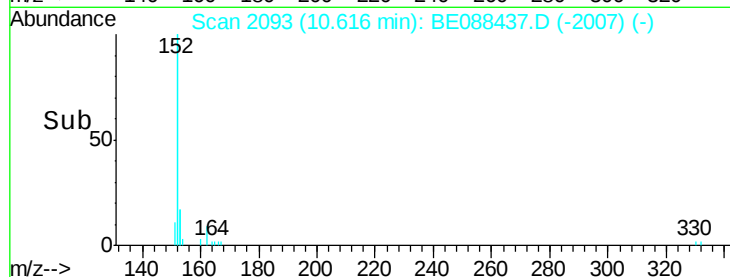
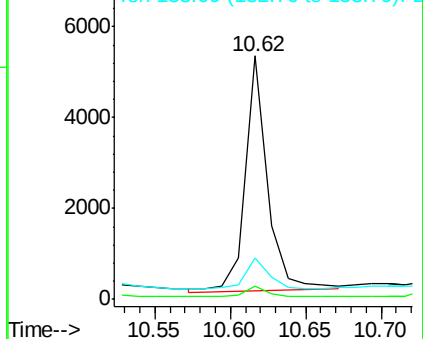
153 16.0 10.5 15.7#



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: 0.16 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

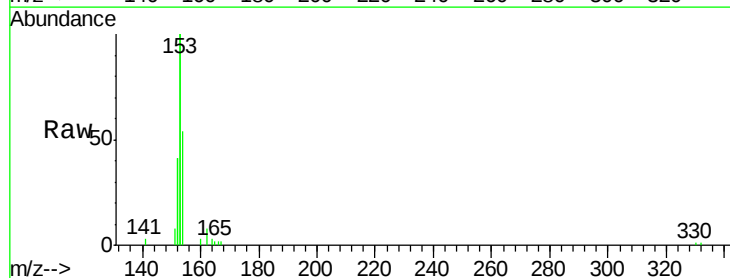
Tgt Ion:154 Resp: 2532

Ion Ratio Lower Upper

154 100

153 377.5 324.3 486.5

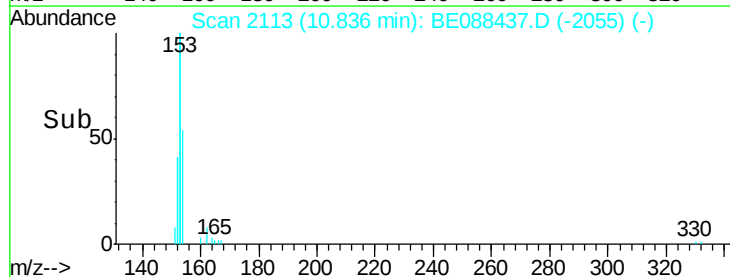
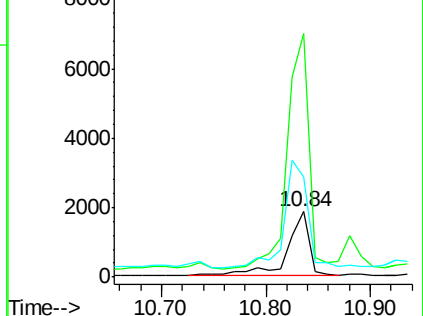
152 192.6 154.9 232.3

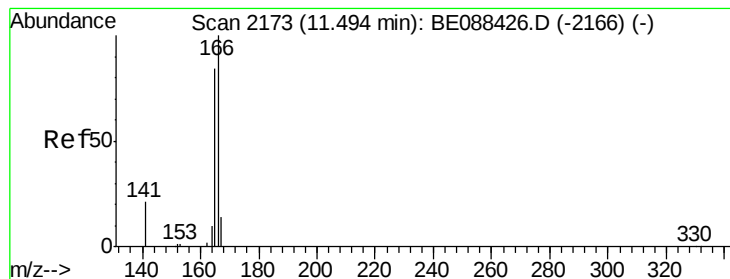


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.13 ng

RT: 11.49 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

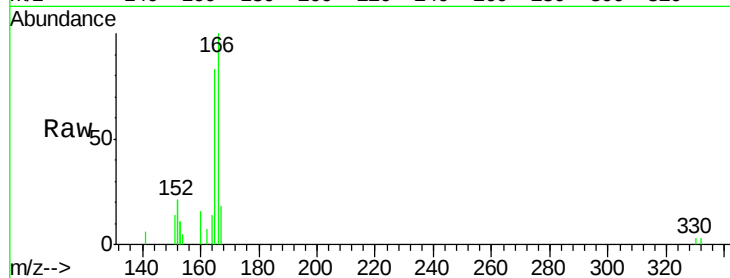
Tgt Ion:166 Resp: 2141

Ion Ratio Lower Upper

166 100

165 90.7 71.3 106.9

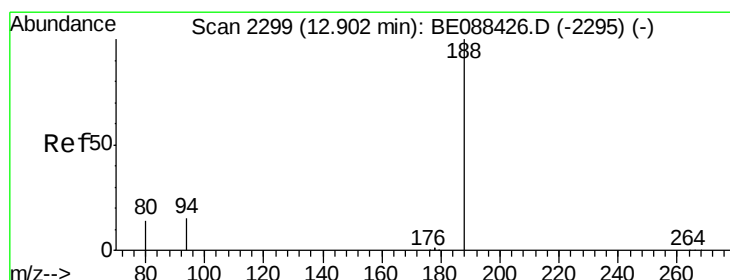
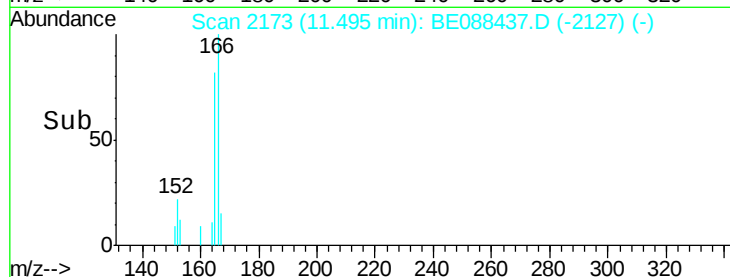
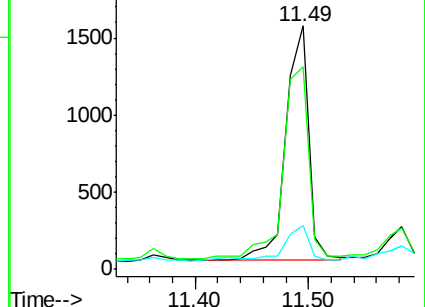
167 13.7 10.7 16.1



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: 12.90 min Scan# 2299

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

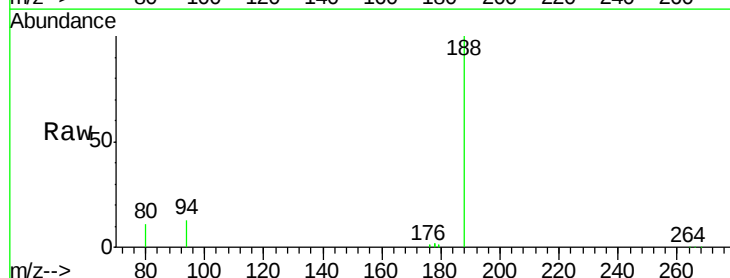
Tgt Ion:188 Resp: 120054

Ion Ratio Lower Upper

188 100

94 12.6 11.8 17.8

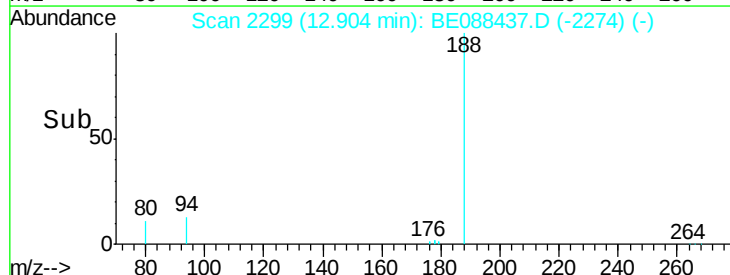
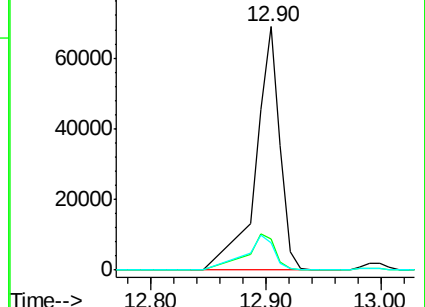
80 11.4 10.9 16.3

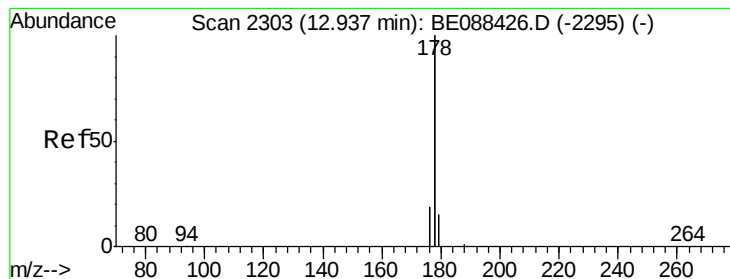


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 2.38 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

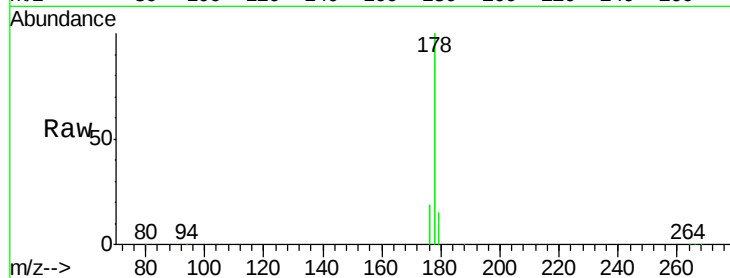
Tgt Ion:178 Resp: 259655

Ion Ratio Lower Upper

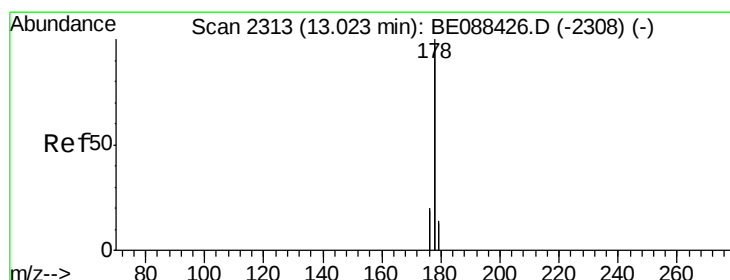
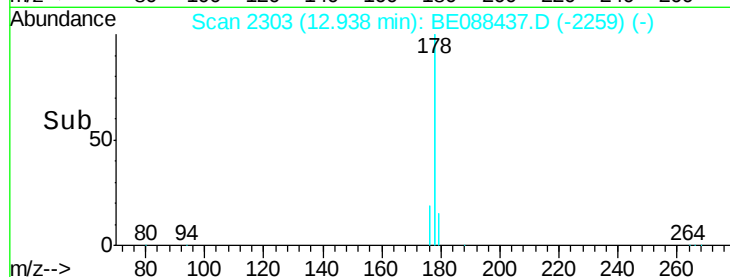
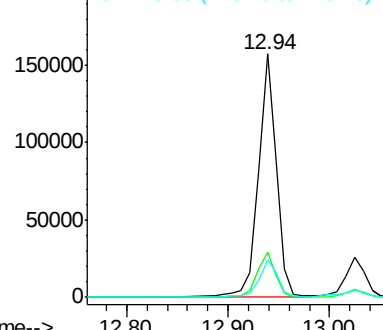
178 100

176 19.3 15.4 23.2

179 16.6 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 2.95 ng

RT: 12.94 min Scan# 2303

Delta R.T. -0.08 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

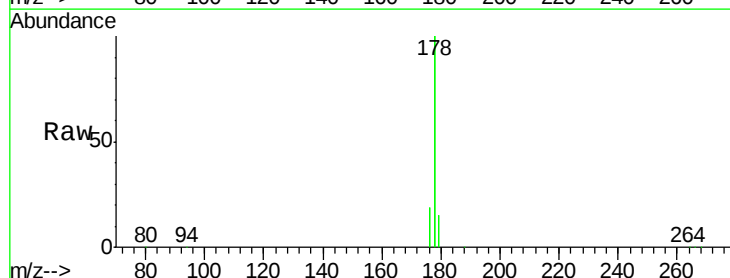
Tgt Ion:178 Resp: 259655

Ion Ratio Lower Upper

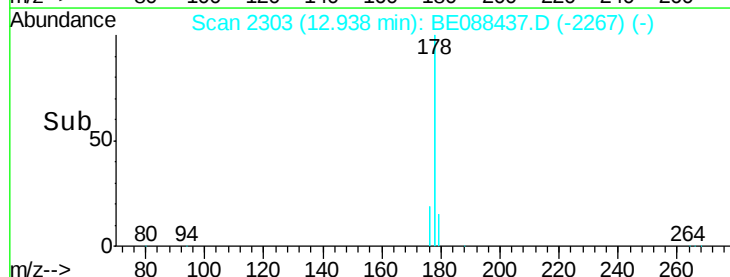
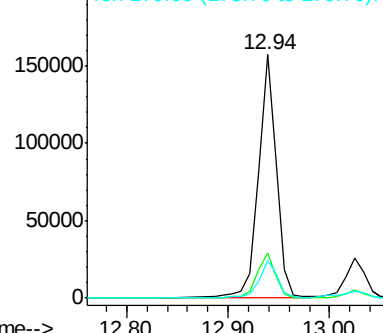
178 100

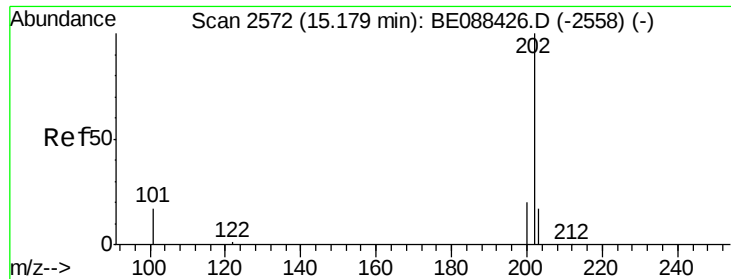
176 19.3 15.0 22.4

179 16.6 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

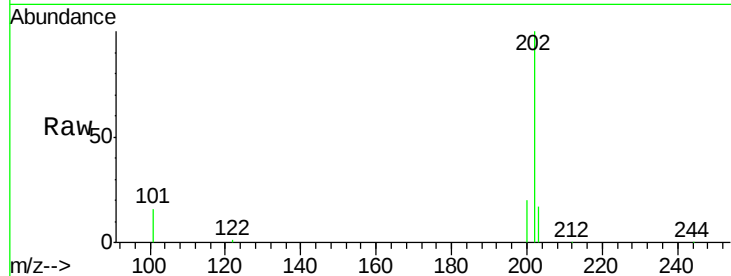




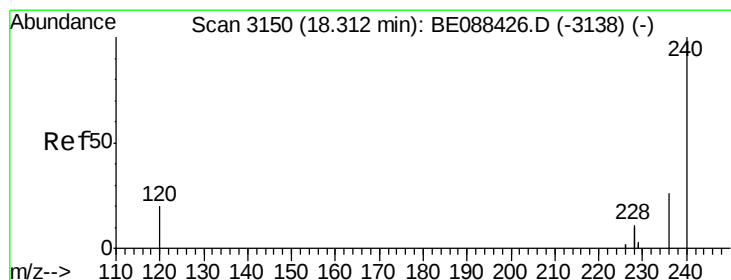
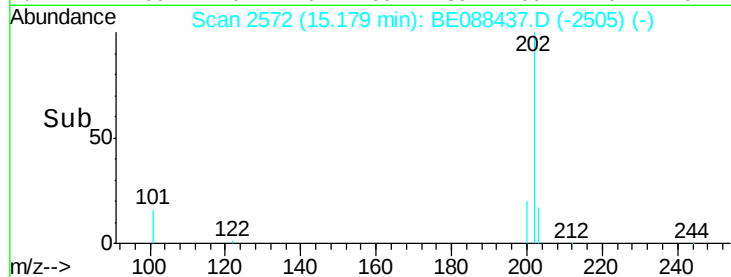
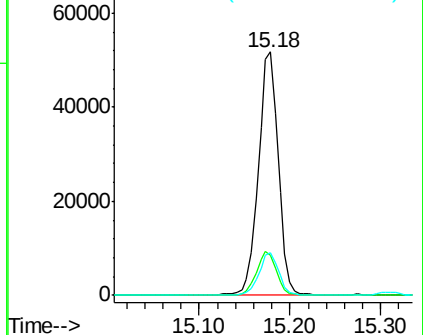
#15
 Fluoranthene
 Concen: 4.44 ng
 RT: 15.18 min Scan# 2572
 Delta R.T. -0.00 min
 Lab File: BE088437.D
 Acq: 1 Nov 2014 00:16

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS34-1014

Tgt Ion: 202 Resp: 78575
 Ion Ratio Lower Upper
 202 100
 101 17.7 14.3 21.5
 203 17.0 13.6 20.4

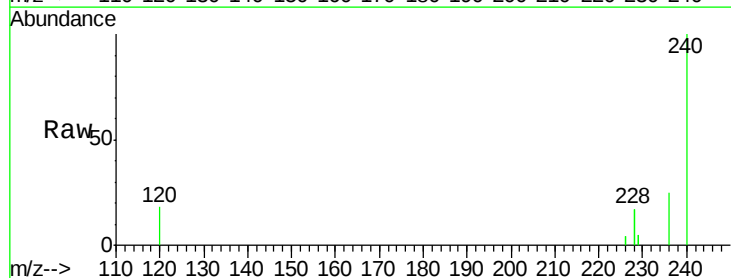


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

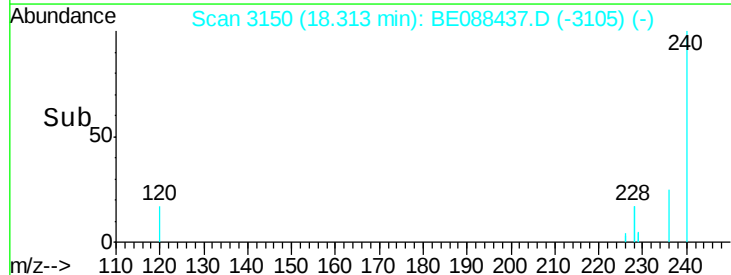
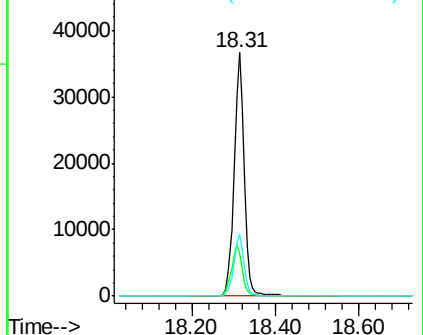


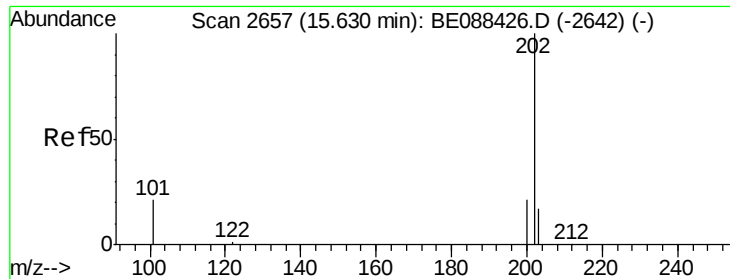
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.31 min Scan# 3150
 Delta R.T. 0.00 min
 Lab File: BE088437.D
 Acq: 1 Nov 2014 00:16

Tgt Ion: 240 Resp: 62139
 Ion Ratio Lower Upper
 240 100
 120 17.7 16.4 24.6
 236 25.2 20.5 30.7



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

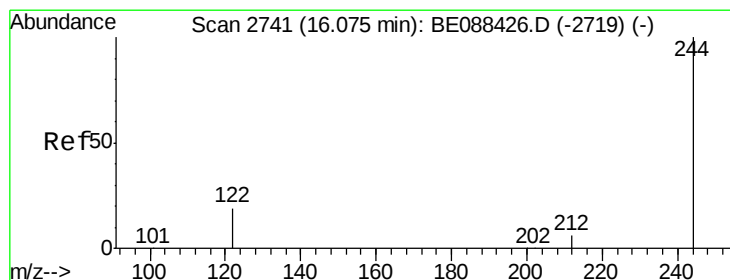
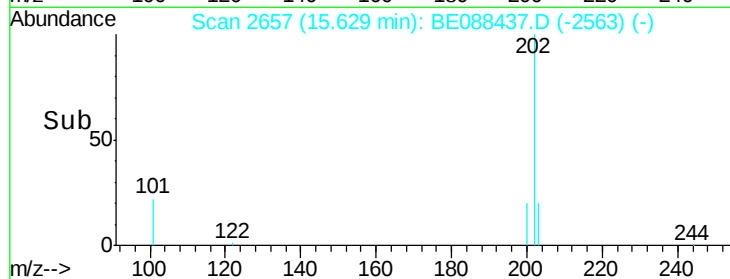
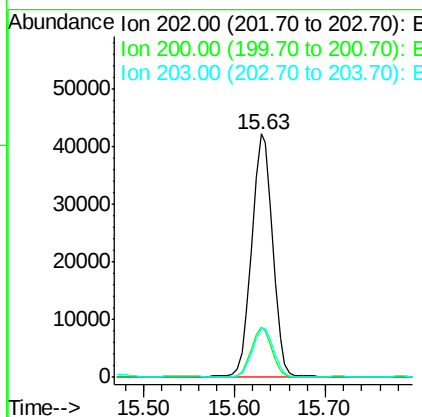
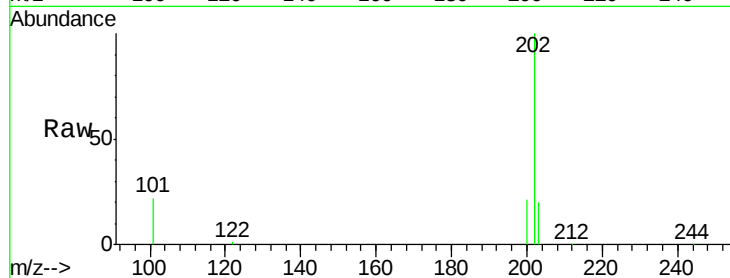




#17
 Pyrene
 Concen: 3.33 ng
 RT: 15.63 min Scan# 2657
 Delta R.T. -0.00 min
 Lab File: BE088437.D
 Acq: 1 Nov 2014 00:16

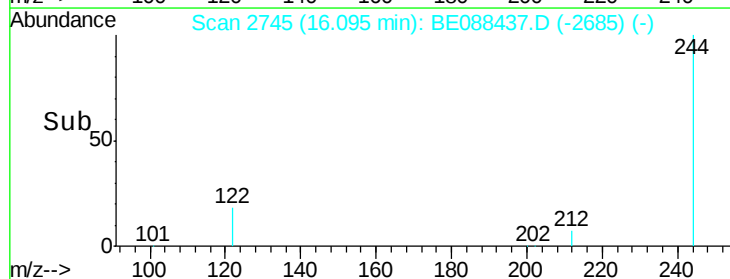
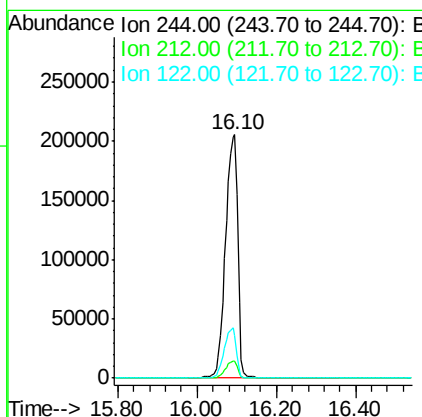
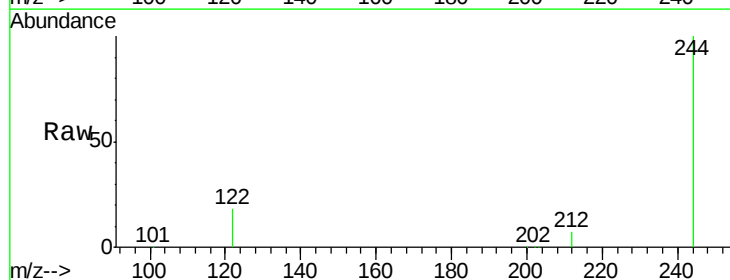
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS34-1014

Tgt Ion: 202 Resp: 67473
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.1 24.1
 203 20.1 13.8 20.8



#18
 Terphenyl-d14
 Concen: 38.73 ng
 RT: 16.10 min Scan# 2745
 Delta R.T. 0.02 min
 Lab File: BE088437.D
 Acq: 1 Nov 2014 00:16

Tgt Ion: 244 Resp: 442132
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 17.7 15.6 23.4





#19

Benzo(a)anthracene

Concen: 2.05 ng

RT: 18.29 min Scan# 3146

Delta R.T. -0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

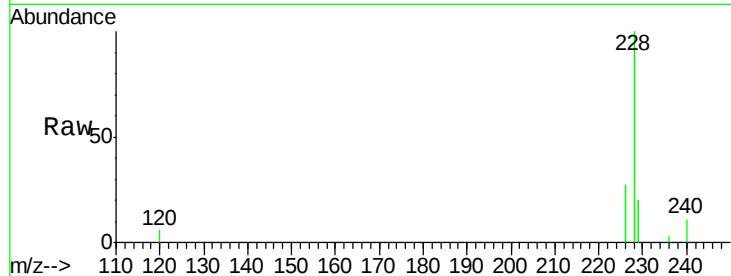
Tgt Ion:228 Resp: 119635

Ion Ratio Lower Upper

228 100

226 26.6 19.8 29.6

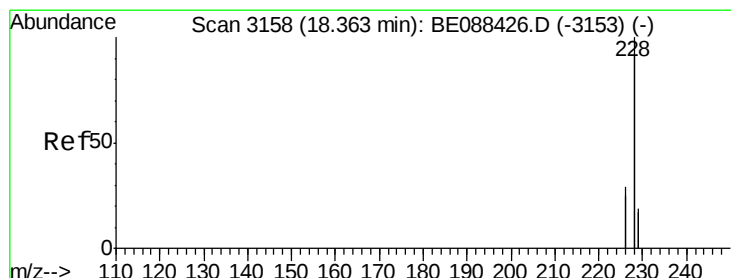
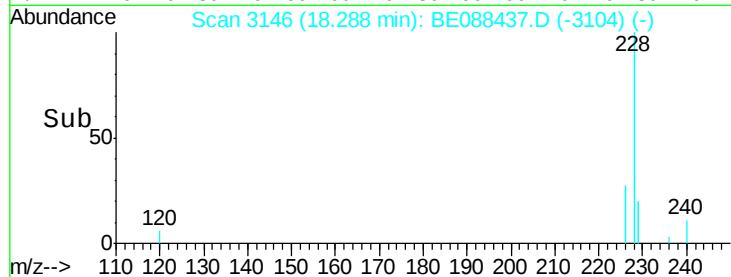
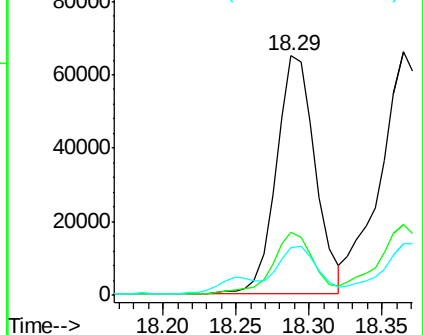
229 20.0 16.0 24.0



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: 2.39 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

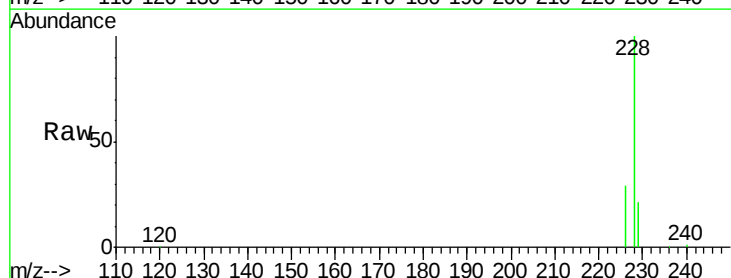
Tgt Ion:228 Resp: 137304

Ion Ratio Lower Upper

228 100

226 29.0 23.6 35.4

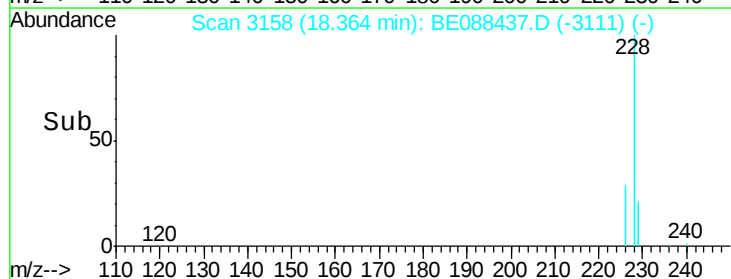
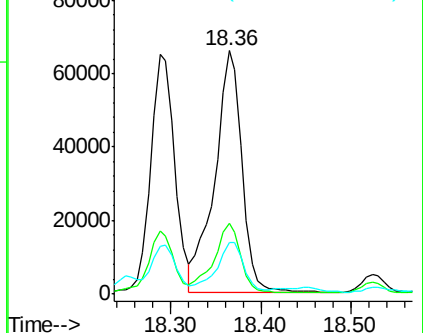
229 21.4 15.4 23.2



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: 1.47 ng

RT: 23.54 min Scan# 4149

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

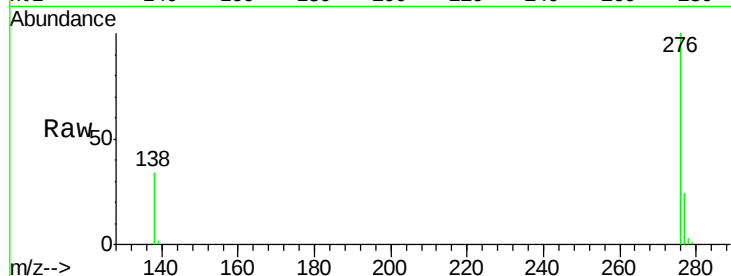
Tgt Ion:276 Resp: 78465

Ion Ratio Lower Upper

276 100

138 30.1 20.2 30.2

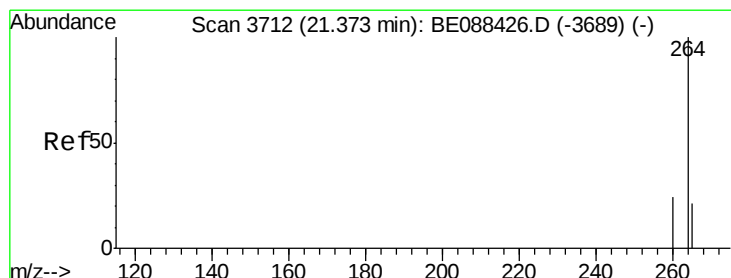
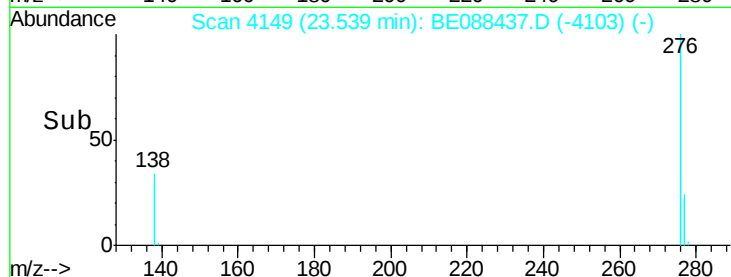
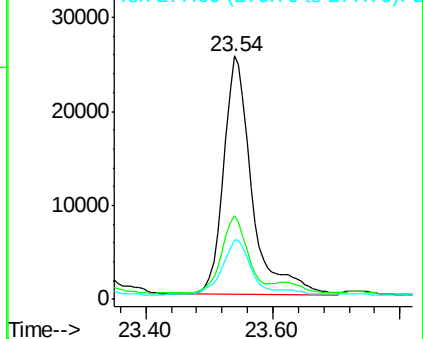
277 22.3 14.8 22.2#



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: 21.37 min Scan# 3712

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

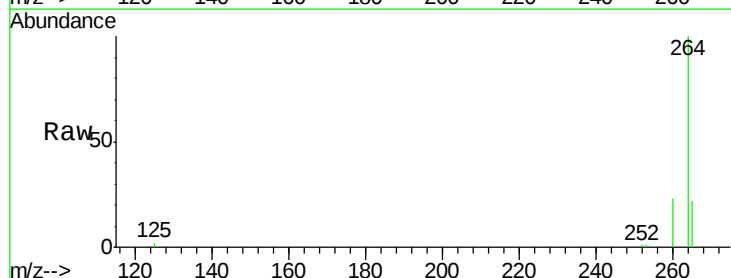
Tgt Ion:264 Resp: 57360

Ion Ratio Lower Upper

264 100

260 23.3 18.9 28.3

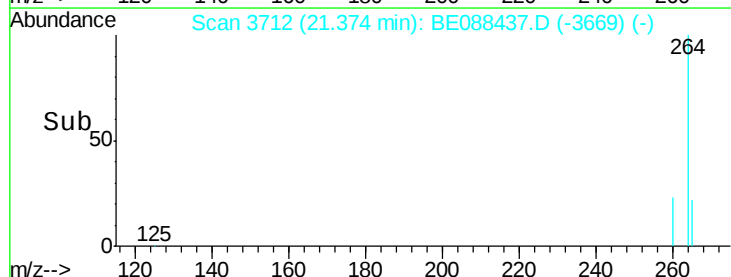
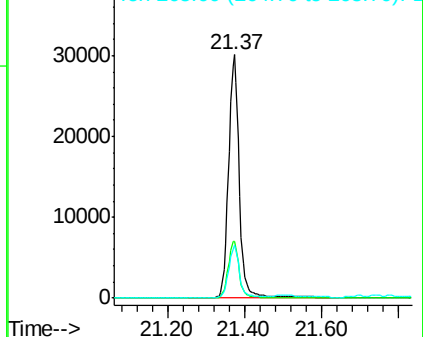
265 21.7 17.2 25.8



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: 3.27 ng

RT: 20.61 min Scan# 3545

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

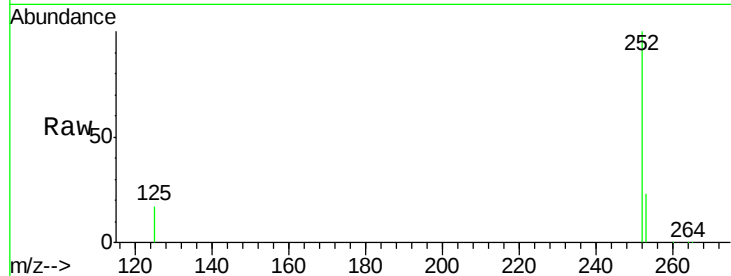
Tgt Ion:252 Resp: 41152

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

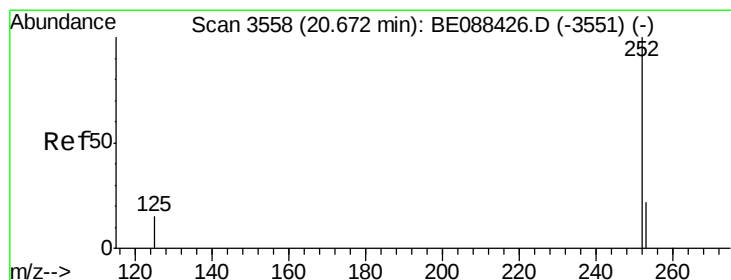
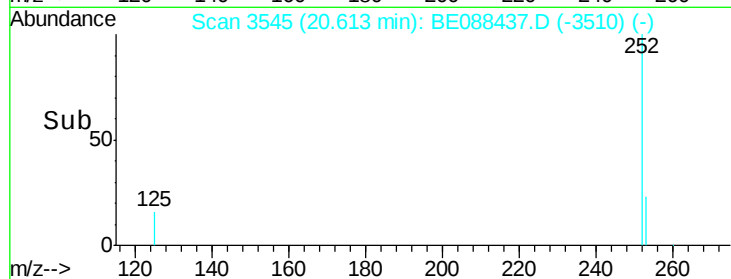
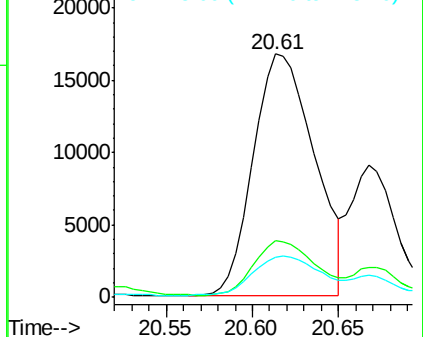
125 16.6 12.3 18.5



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



#24

Benzo(k)fluoranthene

Concen: 1.14 ng

RT: 20.67 min Scan# 3557

Delta R.T. -0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

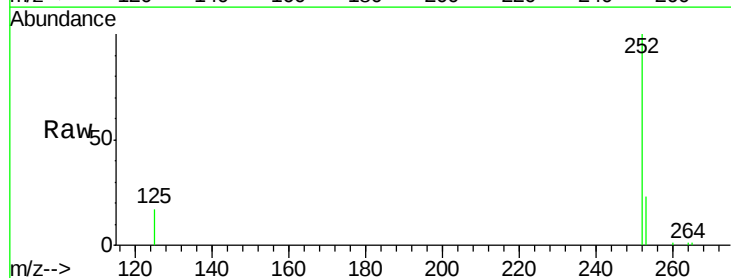
Tgt Ion:252 Resp: 15735

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

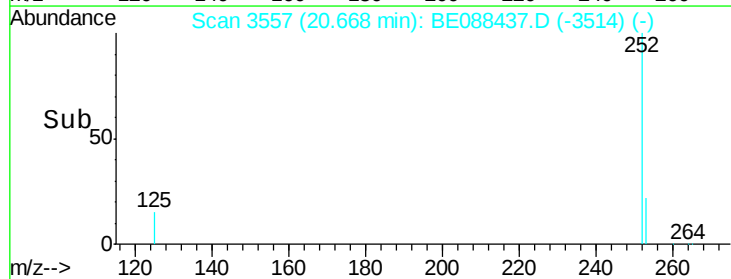
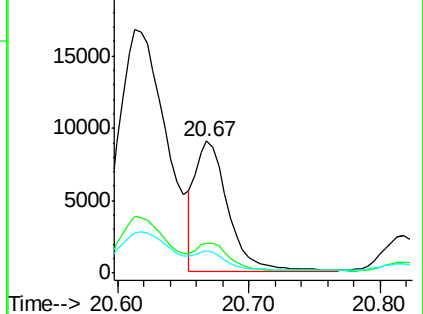
125 16.7 12.2 18.4



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: 2.18 ng

RT: 21.26 min Scan# 3686

Delta R.T. 0.00 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014

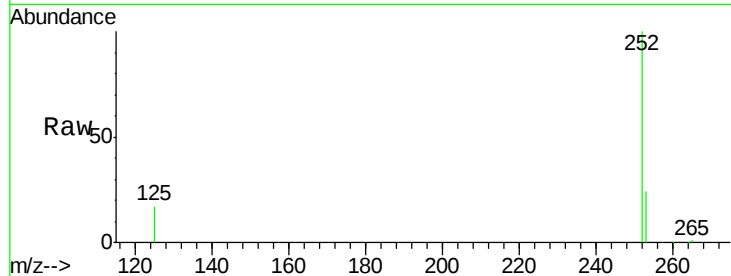
Tgt Ion: 252 Resp: 26316

Ion Ratio Lower Upper

252 100

253 23.8 18.2 27.4

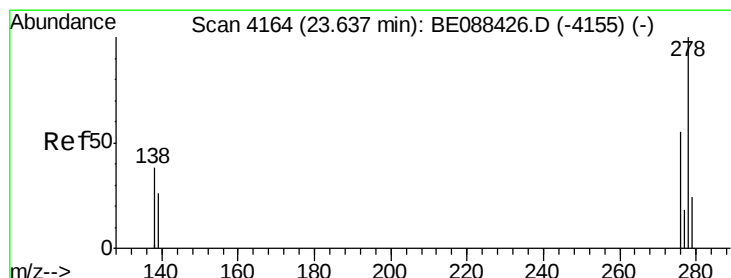
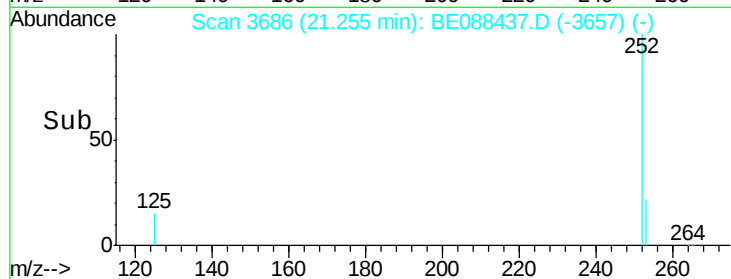
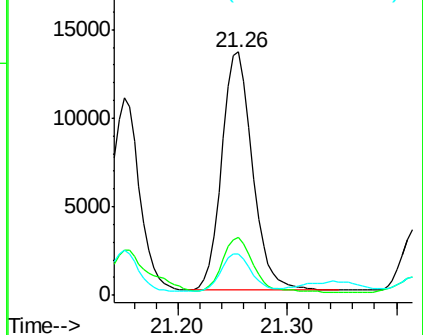
125 17.1 13.7 20.5



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: 0.34 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.01 min

Lab File: BE088437.D

Acq: 1 Nov 2014 00:16

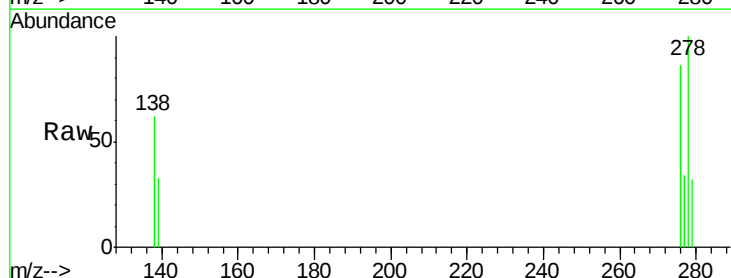
Tgt Ion: 278 Resp: 3832

Ion Ratio Lower Upper

278 100

139 33.1 22.1 33.1

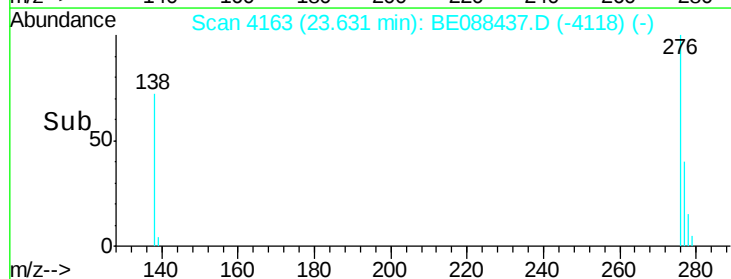
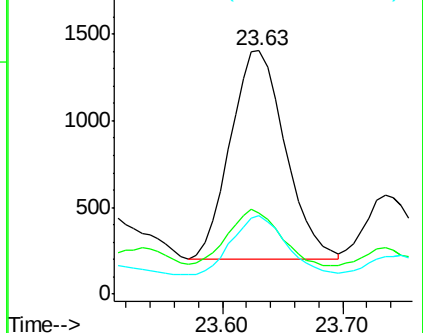
279 32.2 19.7 29.5#



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: 1.46 ng

RT: 24.17 min Scan# 4245

Delta R.T. 0.00 min

Lab File: BE088437.D

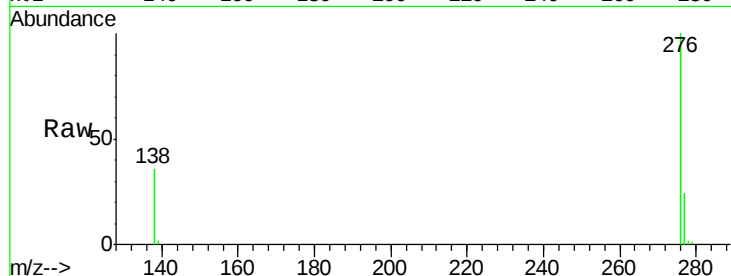
Acq: 1 Nov 2014 00:16

Instrument :

BNA_E

ClientSampleId :

YS19-SS34-1014



Tgt Ion: 276 Resp: 75118

Ion Ratio Lower Upper

276 100

277 24.1 19.8 29.6

138 36.1 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

