

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088438.D
 Acq On : 1 Nov 2014 00:52
 Operator : TP/JJ
 Sample : F4368-06DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB41-1014

Quant Time: Nov 01 03:15:24 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	47576	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	180818	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	75177	5.00	ng	0.00
12) Phenanthrene-d10	12.91	188	127629	5.00	ng	0.00
16) Chrysene-d12	18.31	240	68053	5.00	ng	0.00
22) Perylene-d12	21.37	264	62612	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	171488	12.93	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	232635	10.98	ng	0.00
18) Terphenyl-d14	16.08	244	119361	9.55	ng	0.00

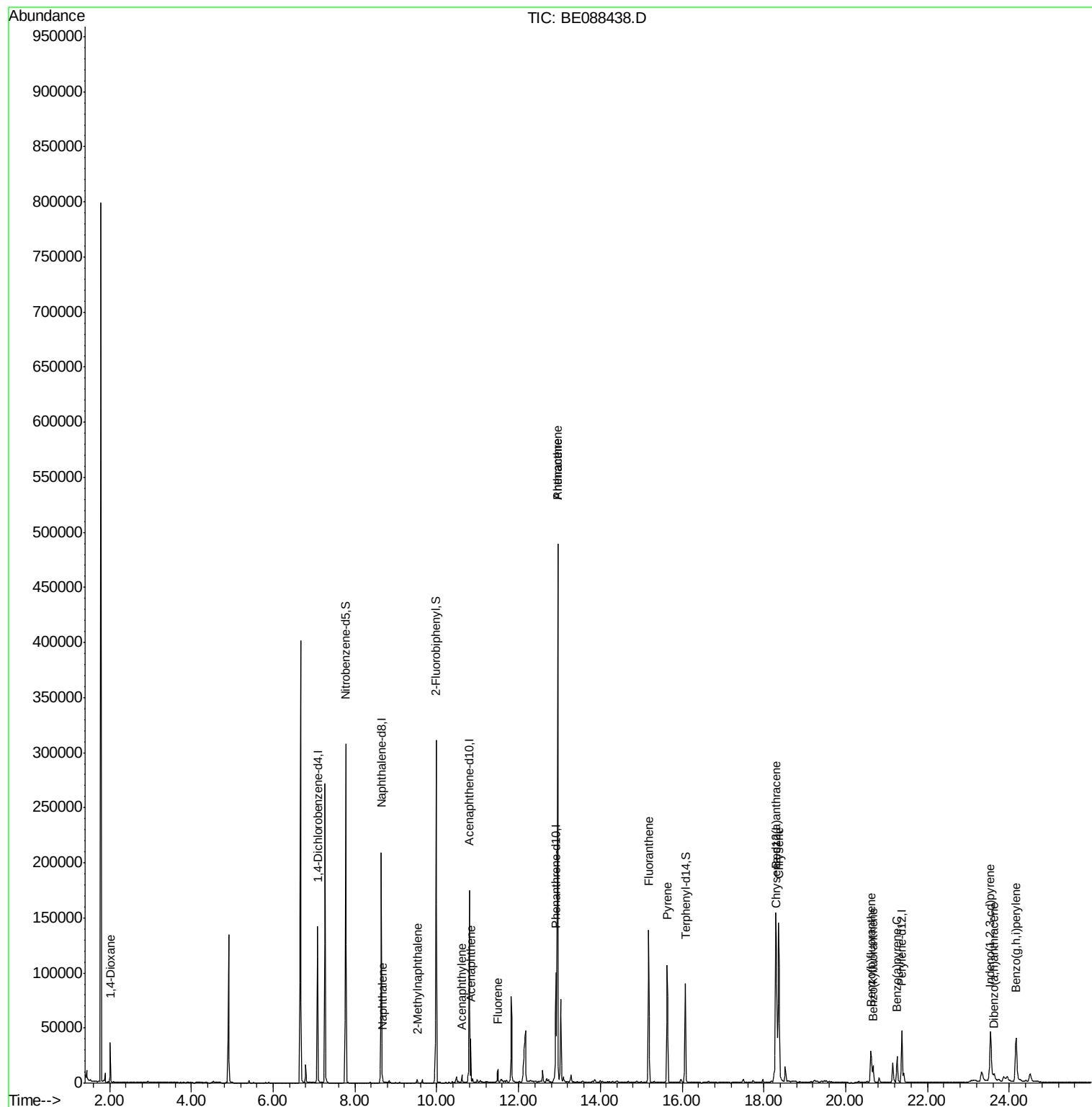
Target Compounds						Qvalue
2) 1,4-Dioxane	2.02	88	1102	0.18	ng	# 1
5) Naphthalene	8.67	128	5824	0.16	ng	98
6) 2-Methylnaphthalene	9.52	142	1700	0.07	ng	99
9) Acenaphthylene	10.62	152	6646	0.05	ng	# 77
10) Acenaphthene	10.84	154	7548	0.42	ng	97
11) Fluorene	11.49	166	7143	0.37	ng	99
13) Phenanthrene	12.96	178	659370	5.69	ng	99
14) Anthracene	12.96	178	659370	7.04	ng	100
15) Fluoranthene	15.18	202	135871	7.22	ng	100
17) Pyrene	15.64	202	105676	4.76	ng	96
19) Benzo(a)anthracene	18.29	228	178826	2.79	ng	99
20) Chrysene	18.36	228	198033	3.15	ng	98
21) Indeno(1,2,3-cd)pyrene	23.54	276	88279	1.51	ng	# 87
23) Benzo(b)fluoranthene	20.62	252	50787	3.70	ng	98
24) Benzo(k)fluoranthene	20.67	252	20231	1.34	ng	98
25) Benzo(a)pyrene	21.26	252	33360	2.53	ng	99
26) Dibenzo(a,h)anthracene	23.63	278	4620	0.38	ng	# 92
27) Benzo(g,h,i)perylene	24.17	276	78545	1.40	ng	99

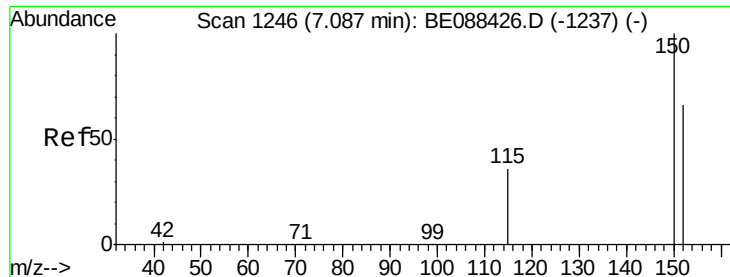
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

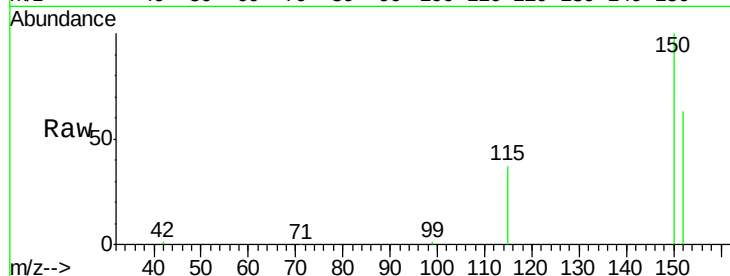
Tgt Ion:152 Resp: 47576

Ion Ratio Lower Upper

152 100

150 158.1 121.8 182.8

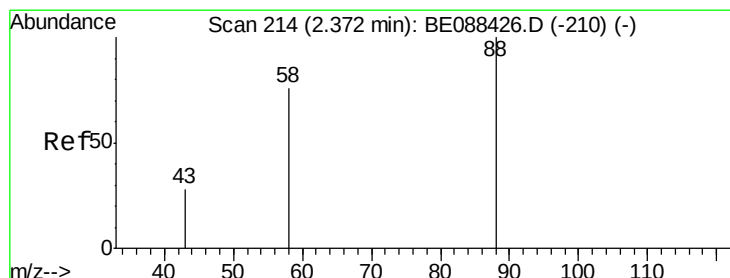
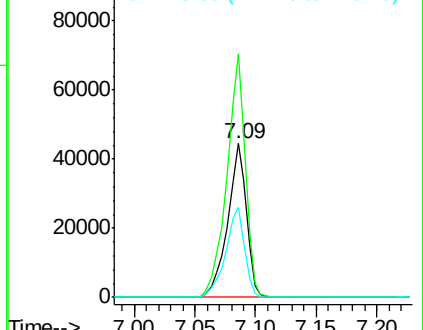
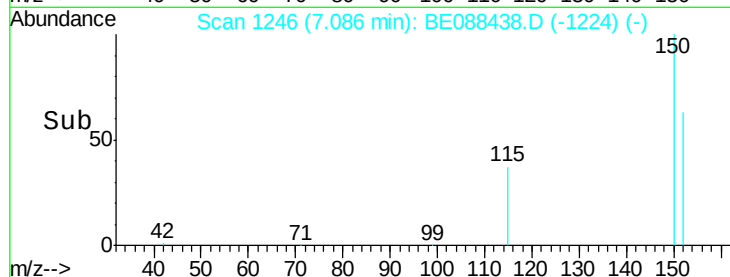
115 58.7 43.9 65.9



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: 0.18 ng

RT: 2.02 min Scan# 137

Delta R.T. -0.35 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

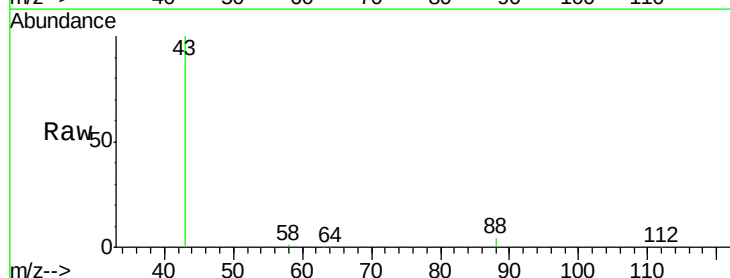
Tgt Ion: 88 Resp: 1102

Ion Ratio Lower Upper

88 100

58 26.1 59.1 88.7#

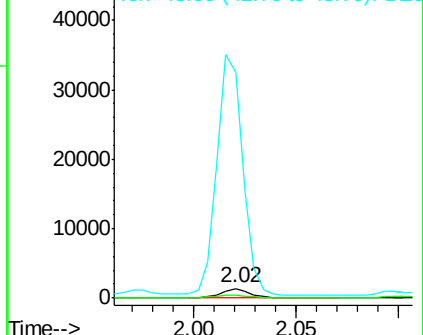
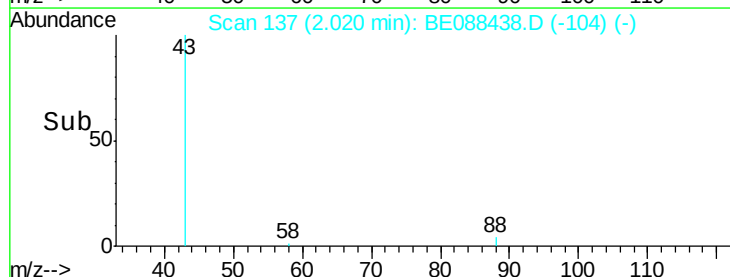
43 2767.8 21.9 32.9#

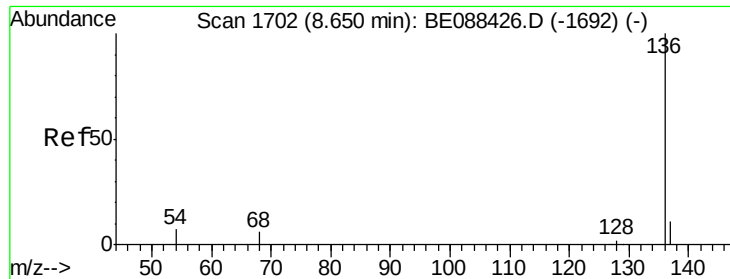


Abundance Ion 88.00 (87.70 to 88.70): BE0

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# 1701

Delta R.T. -0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

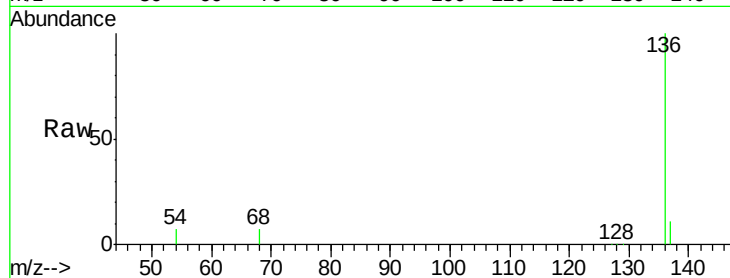
Tgt Ion: 136 Resp: 180818

Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 7.1 5.3 7.9

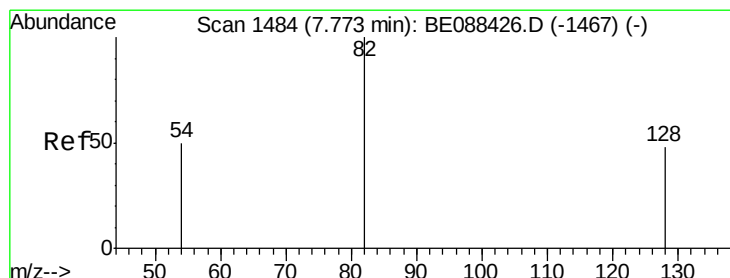
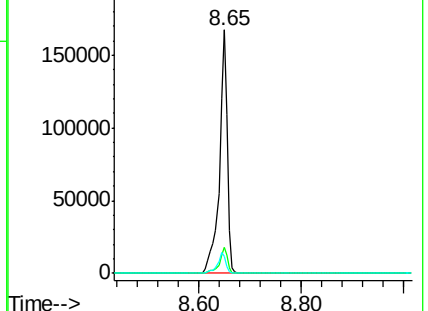
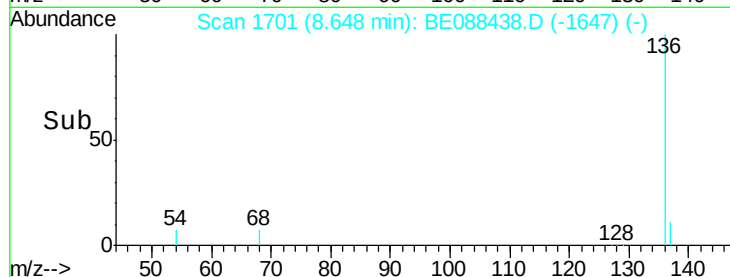


Abundance Ion 136.00 (135.70 to 136.70): BE088438.D (-1647) (-)

Ion 137.00 (136.70 to 137.70): BE088438.D (-1647) (-)

Ion 54.00 (53.70 to 54.70): BE088438.D (-1647) (-)

8.65



#4

Nitrobenzene-d5

Concen: 12.93 ng

RT: 7.78 min Scan# 1485

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

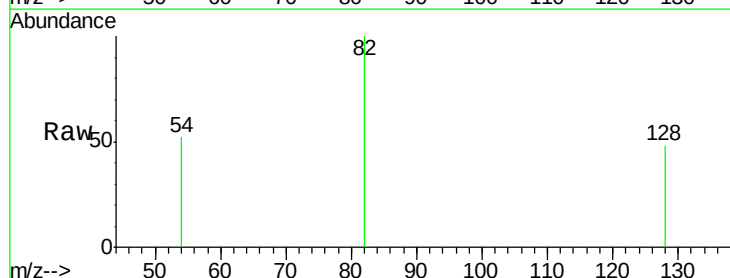
Tgt Ion: 82 Resp: 171488

Ion Ratio Lower Upper

82 100

128 47.9 38.4 57.6

54 52.1 40.2 60.2

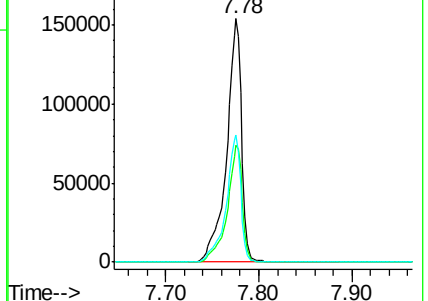
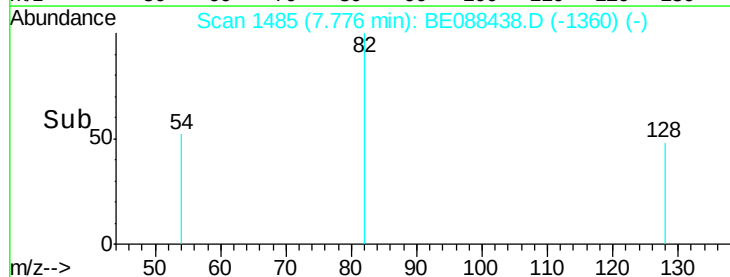


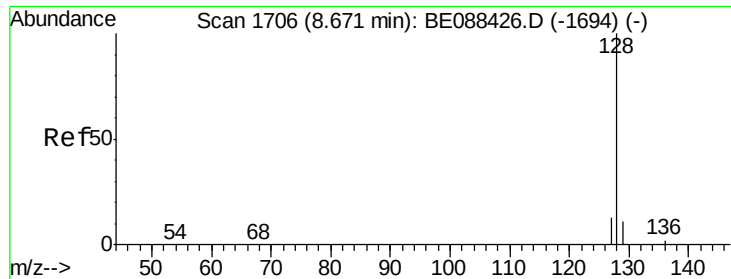
Abundance Ion 82.00 (81.70 to 82.70): BE088438.D (-1360) (-)

Ion 128.00 (127.70 to 128.70): BE088438.D (-1360) (-)

Ion 54.00 (53.70 to 54.70): BE088438.D (-1360) (-)

7.78





#5

Naphthalene

Concen: 0.16 ng

RT: 8.67 min Scan# 1706

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

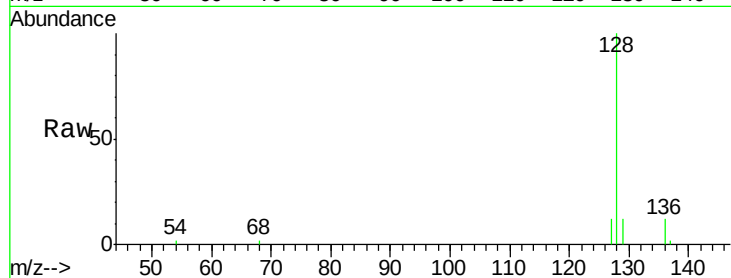
Tgt Ion:128 Resp: 5824

Ion Ratio Lower Upper

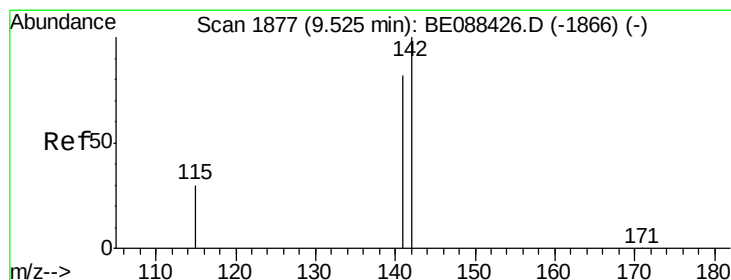
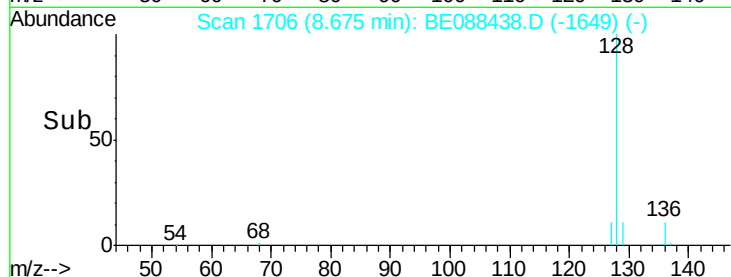
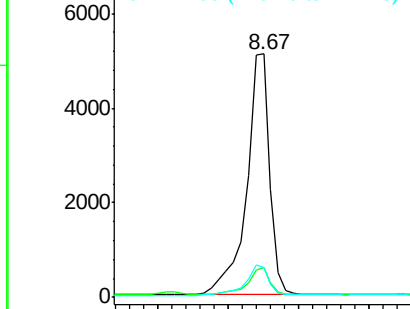
128 100

129 12.0 8.6 12.8

127 12.2 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#6

2-Methylnaphthalene

Concen: 0.07 ng

RT: 9.52 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

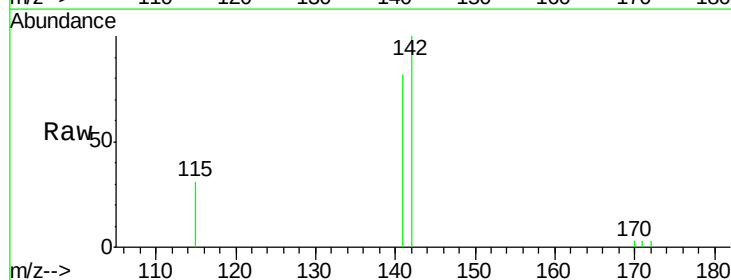
Tgt Ion:142 Resp: 1700

Ion Ratio Lower Upper

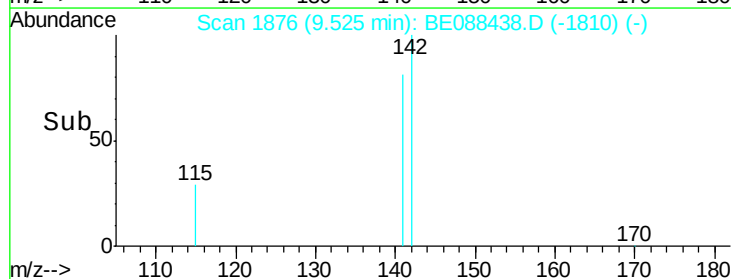
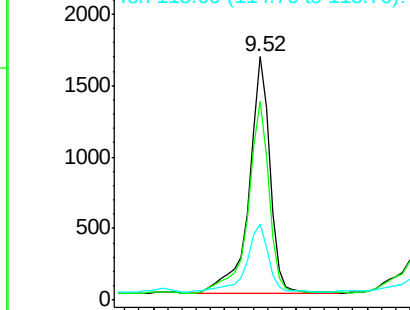
142 100

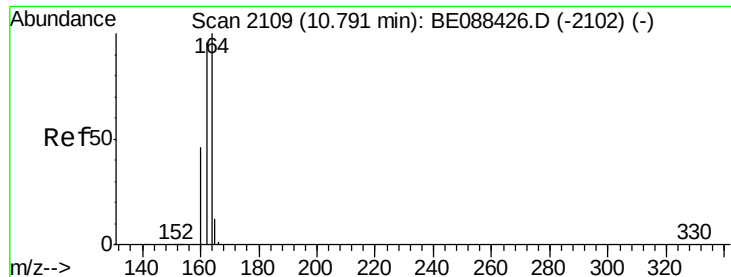
141 81.9 65.8 98.8

115 31.2 24.2 36.4



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2108

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

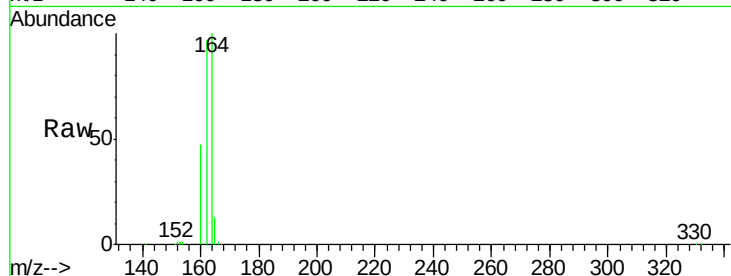
Tgt Ion:164 Resp: 75177

Ion Ratio Lower Upper

164 100

162 97.0 77.0 115.4

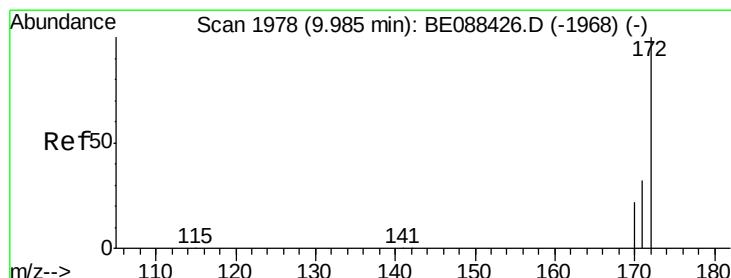
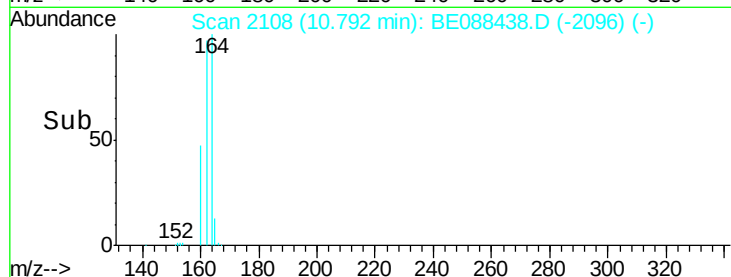
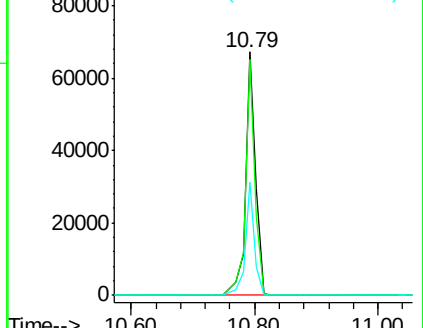
160 46.6 36.8 55.2



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: 10.98 ng

RT: 9.99 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

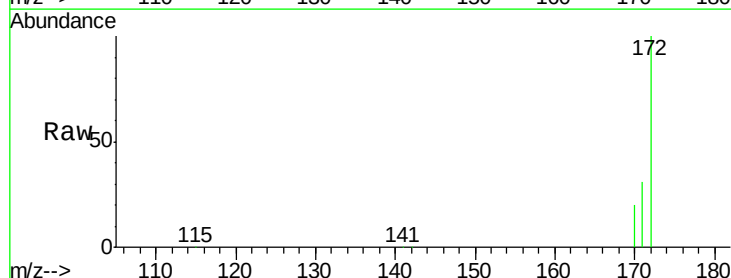
Tgt Ion:172 Resp: 232635

Ion Ratio Lower Upper

172 100

171 30.8 26.0 39.0

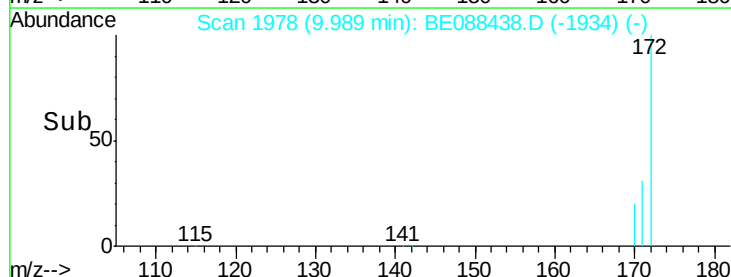
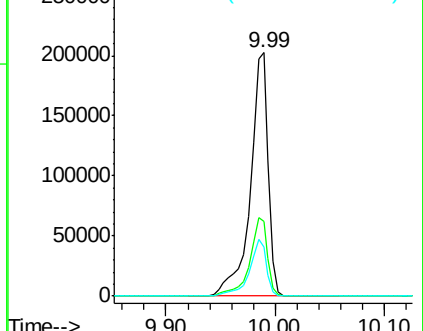
170 20.1 17.6 26.4

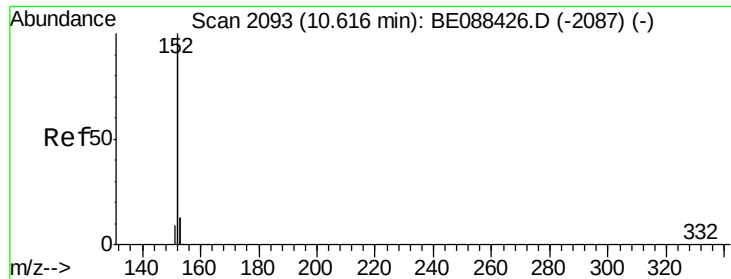


Abundance Ion 172.00 (171.70 to 172.70): E

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# 2092

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

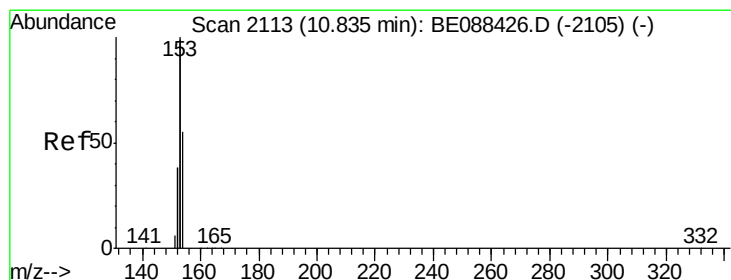
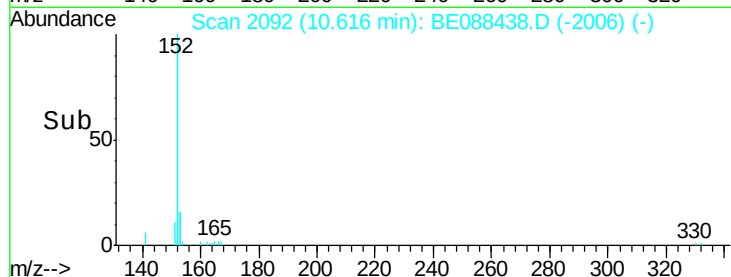
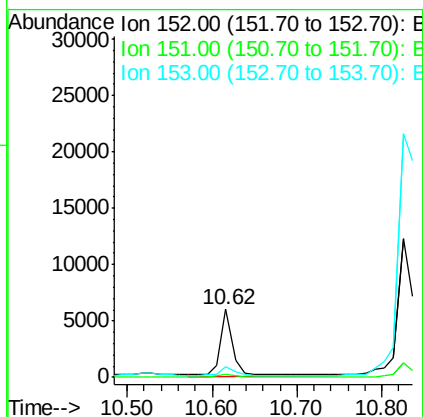
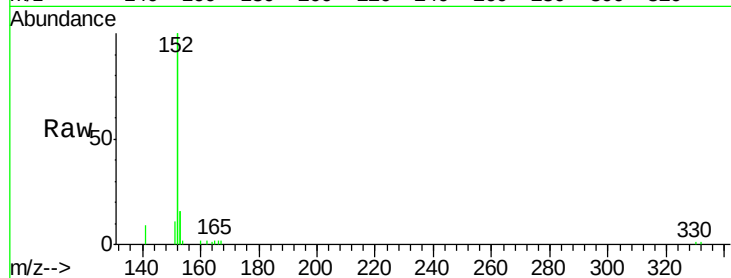
Tgt Ion:152 Resp: 6646

Ion Ratio Lower Upper

152 100

151 5.1 4.4 6.6

153 0.0 10.5 15.7#



#10

Acenaphthene

Concen: 0.42 ng

RT: 10.84 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

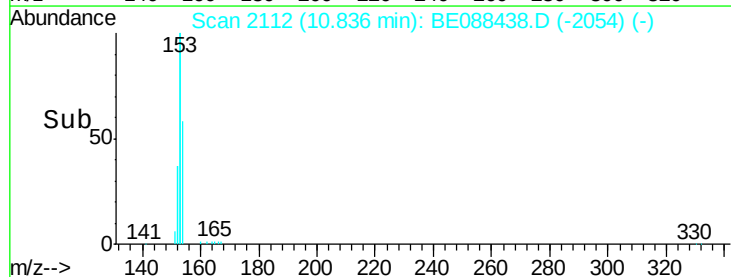
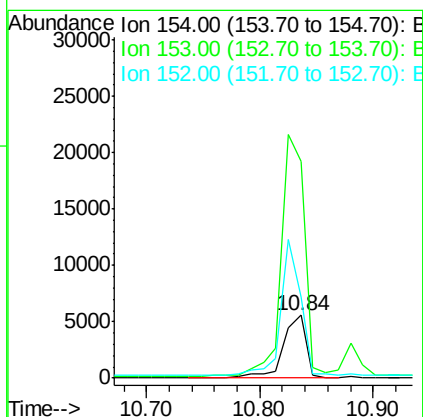
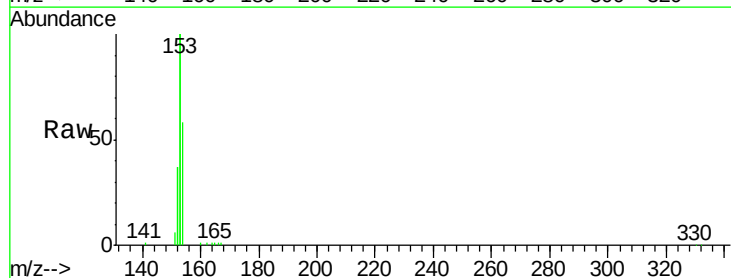
Tgt Ion:154 Resp: 7548

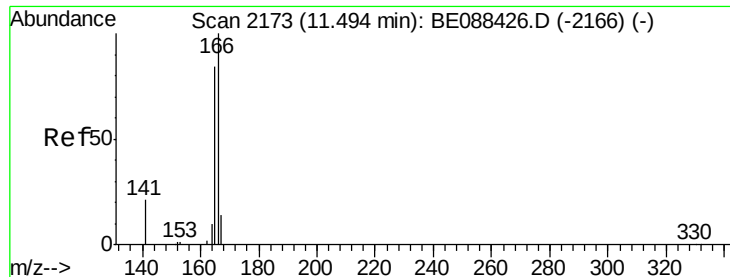
Ion Ratio Lower Upper

154 100

153 400.3 324.3 486.5

152 202.0 154.9 232.3





#11

Fluorene

Concen: 0.37 ng

RT: 11.49 min Scan# 2172

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

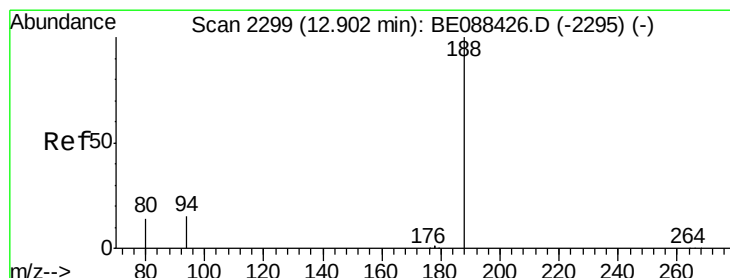
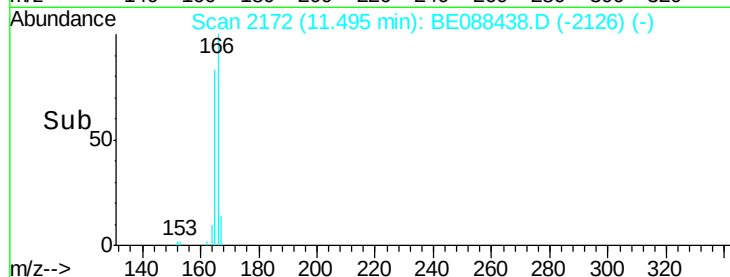
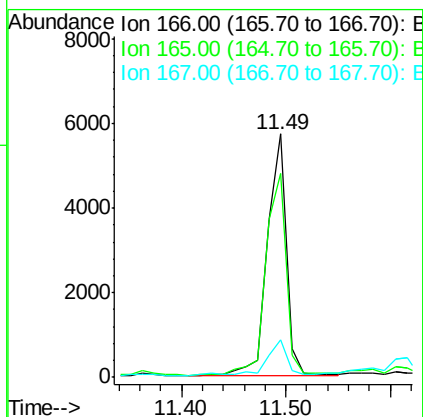
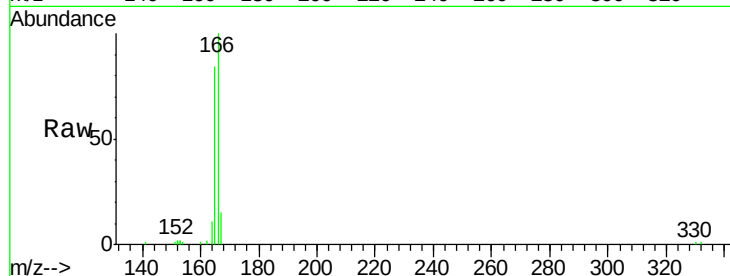
Tgt Ion:166 Resp: 7143

Ion Ratio Lower Upper

166 100

165 89.9 71.3 106.9

167 15.6 10.7 16.1



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.91 min Scan# 2299

Delta R.T. 0.01 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

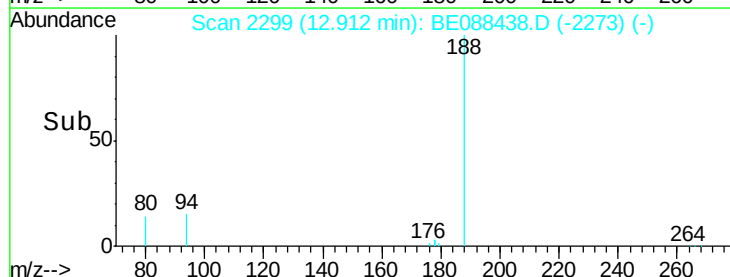
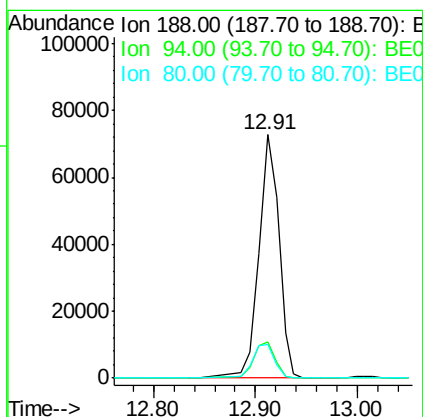
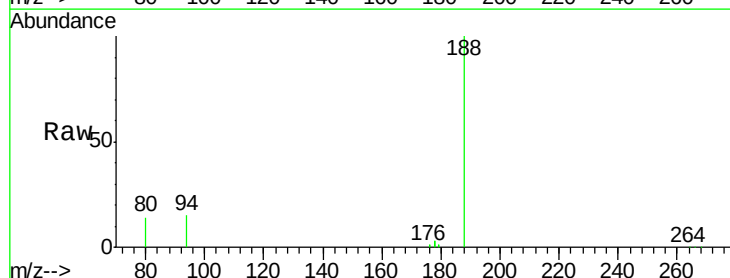
Tgt Ion:188 Resp: 127629

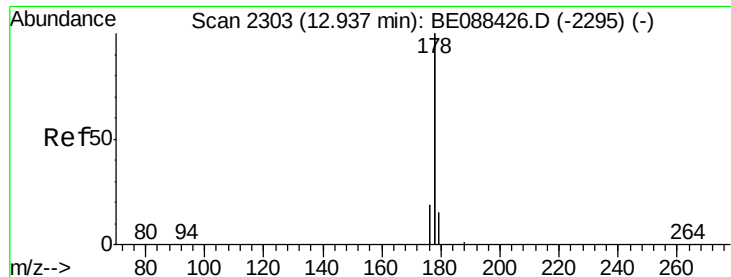
Ion Ratio Lower Upper

188 100

94 15.1 11.8 17.8

80 14.1 10.9 16.3

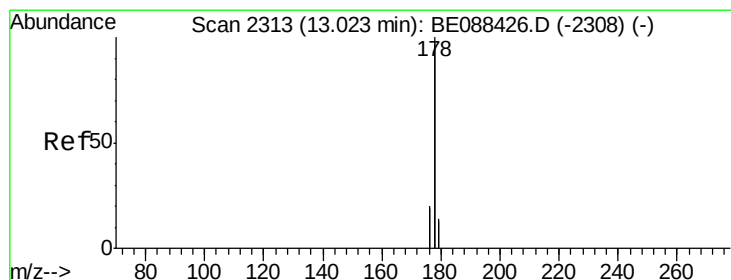
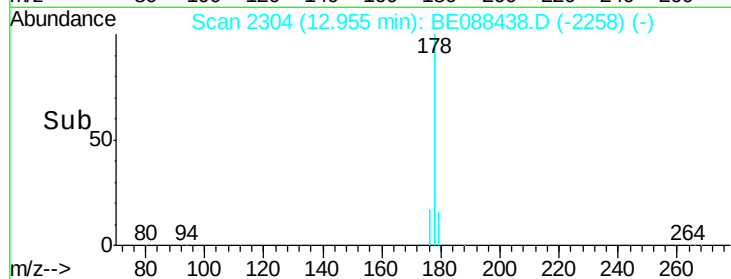
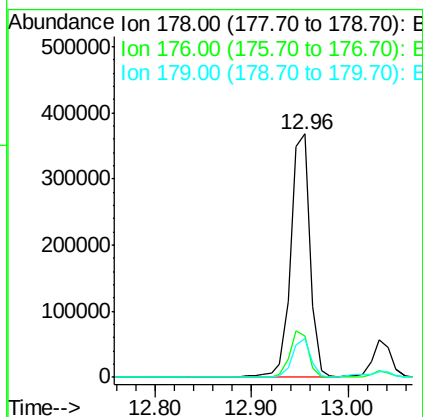
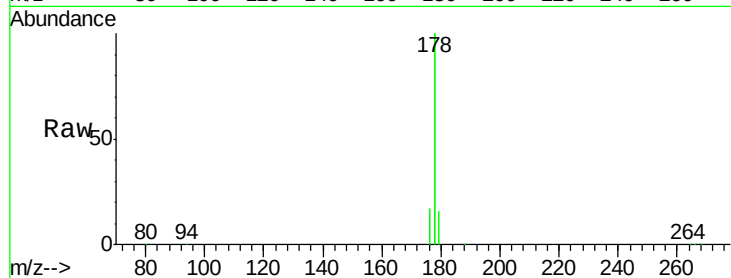




#13
Phenanthrene
Concen: 5.69 ng
RT: 12.96 min Scan# 2304
Delta R.T. 0.02 min
Lab File: BE088438.D
Acq: 1 Nov 2014 00:52

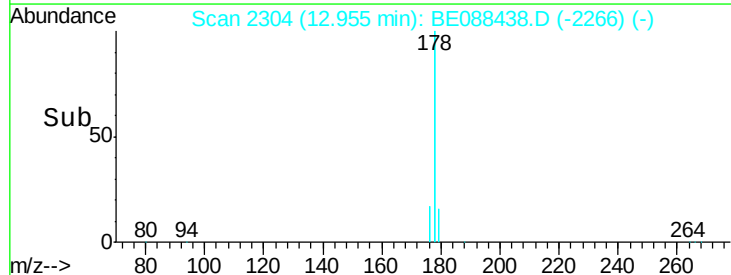
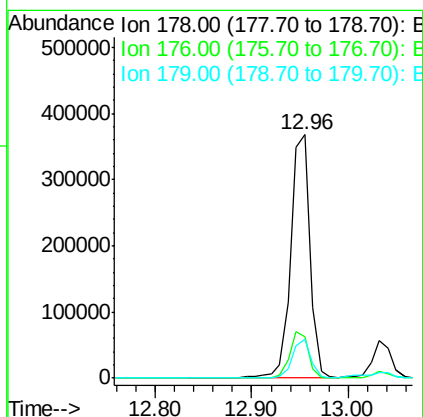
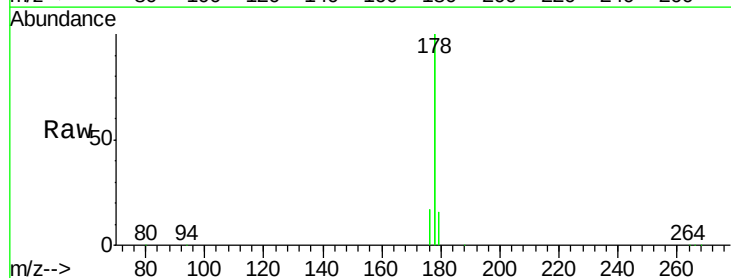
Instrument :
BNA_E
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YS19-SB41-1014

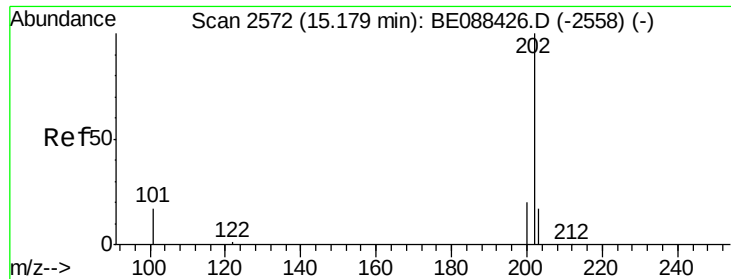
Tgt Ion:178 Resp: 659370
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.6 12.8 19.2



#14
Anthracene
Concen: 7.04 ng
RT: 12.96 min Scan# 2304
Delta R.T. -0.07 min
Lab File: BE088438.D
Acq: 1 Nov 2014 00:52

Tgt Ion:178 Resp: 659370
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 15.6 12.5 18.7

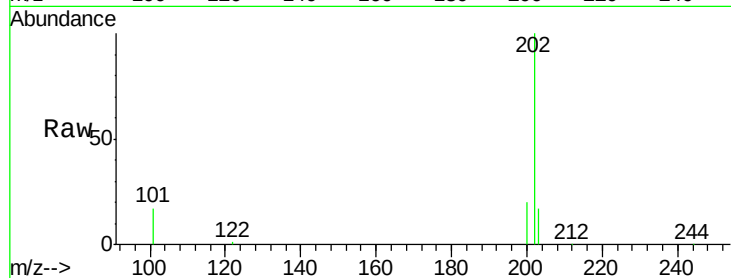




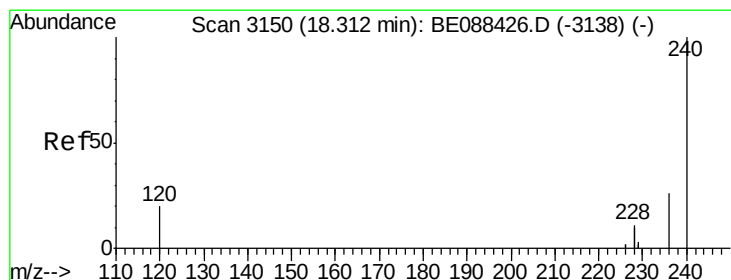
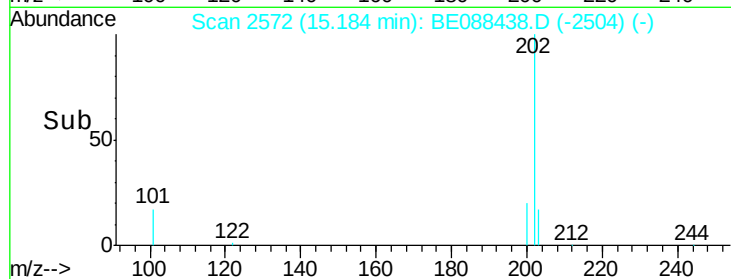
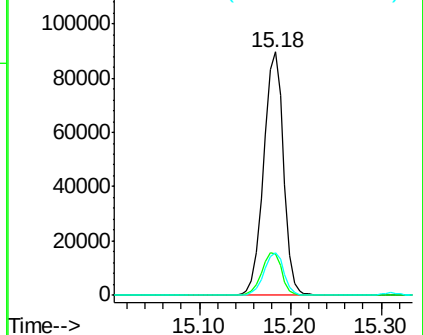
#15
 Fluoranthene
 Concen: 7.22 ng
 RT: 15.18 min Scan# 2572
 Delta R.T. 0.00 min
 Lab File: BE088438.D
 Acq: 1 Nov 2014 00:52

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB41-1014

Tgt Ion: 202 Resp: 135871
 Ion Ratio Lower Upper
 202 100
 101 17.7 14.3 21.5
 203 17.1 13.6 20.4

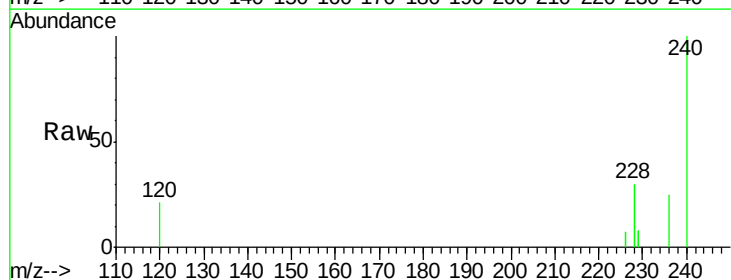


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

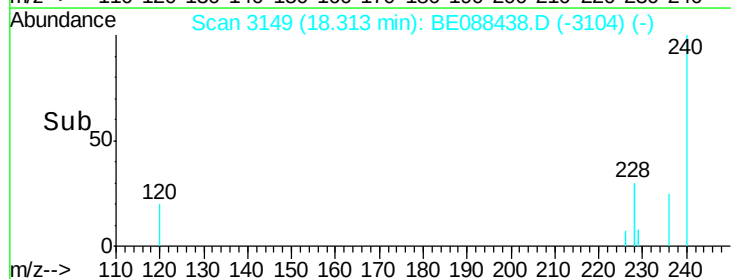
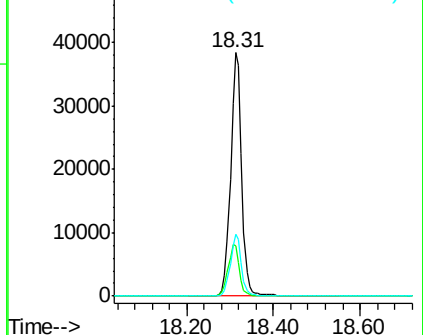


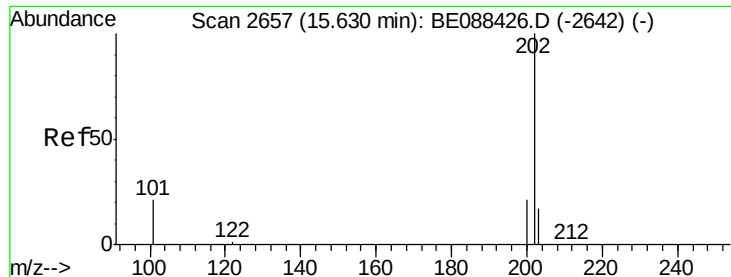
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.31 min Scan# 3149
 Delta R.T. 0.00 min
 Lab File: BE088438.D
 Acq: 1 Nov 2014 00:52

Tgt Ion: 240 Resp: 68053
 Ion Ratio Lower Upper
 240 100
 120 20.6 16.4 24.6
 236 25.3 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

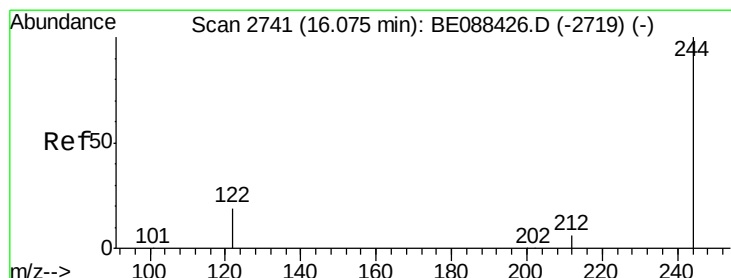
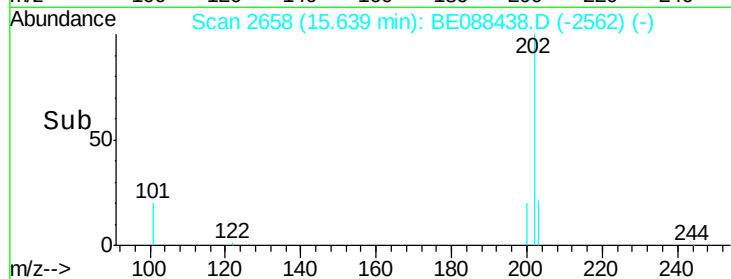
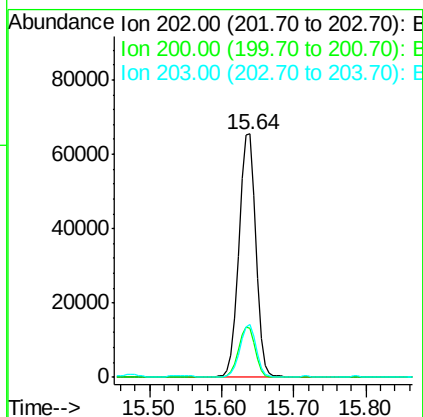
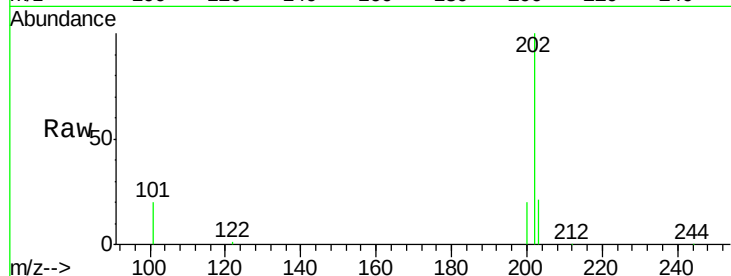




#17
 Pyrene
 Concen: 4.76 ng
 RT: 15.64 min Scan# 2658
 Delta R.T. 0.01 min
 Lab File: BE088438.D
 Acq: 1 Nov 2014 00:52

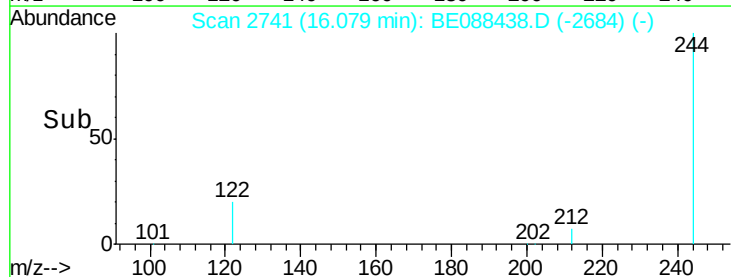
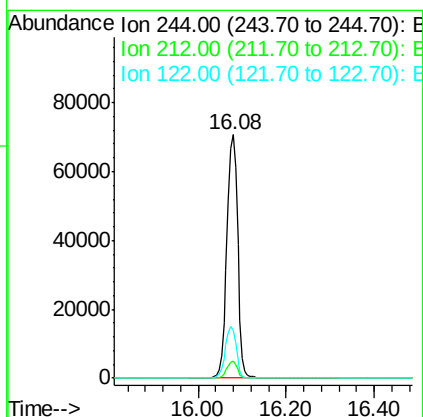
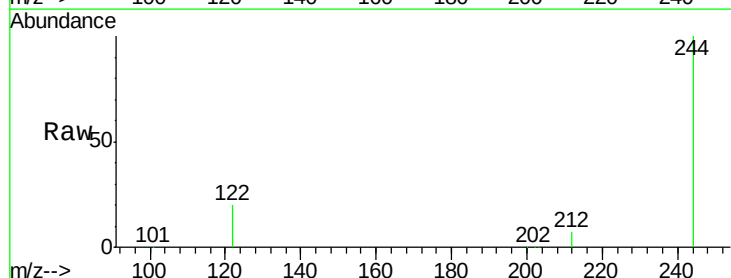
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB41-1014

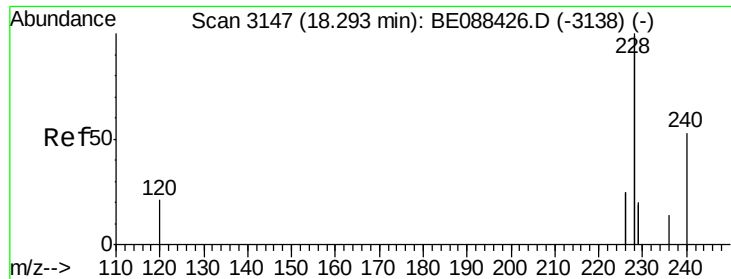
Tgt Ion: 202 Resp: 105676
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.1 24.1
 203 20.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.55 ng
 RT: 16.08 min Scan# 2741
 Delta R.T. 0.00 min
 Lab File: BE088438.D
 Acq: 1 Nov 2014 00:52

Tgt Ion: 244 Resp: 119361
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.5 8.3
 122 19.7 15.6 23.4





#19

Benzo(a)anthracene

Concen: 2.79 ng

RT: 18.29 min Scan# 3146

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

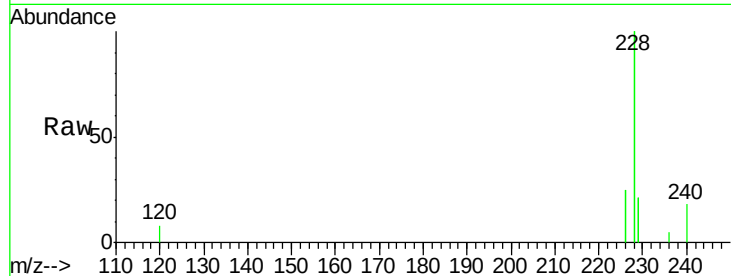
Tgt Ion:228 Resp: 178826

Ion Ratio Lower Upper

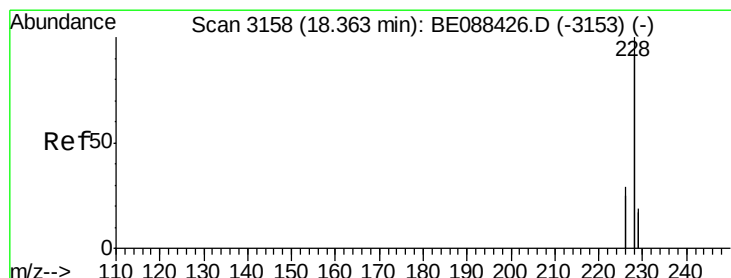
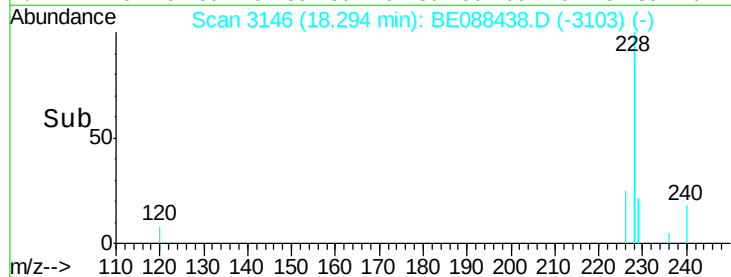
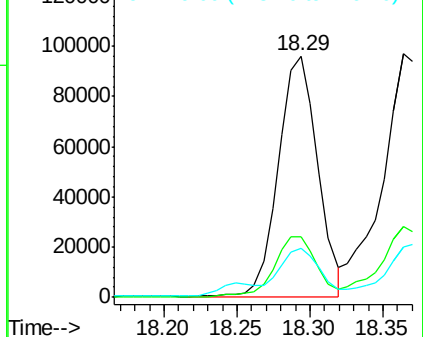
228 100

226 25.2 19.8 29.6

229 20.5 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: 3.15 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

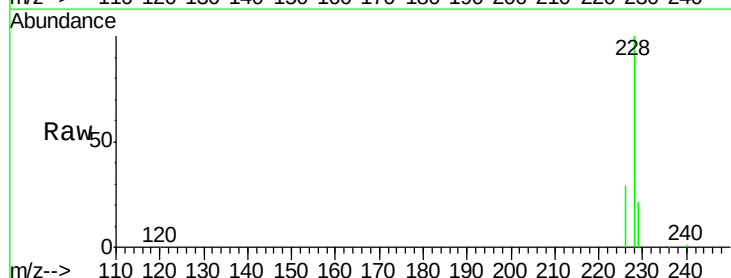
Tgt Ion:228 Resp: 198033

Ion Ratio Lower Upper

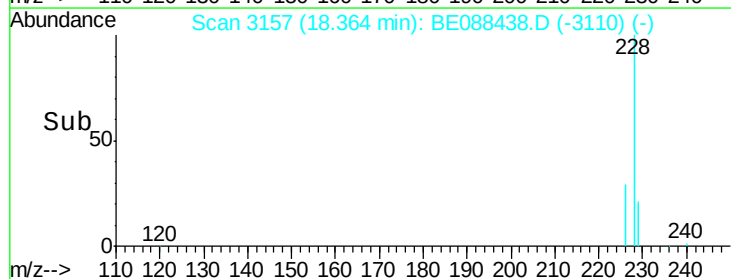
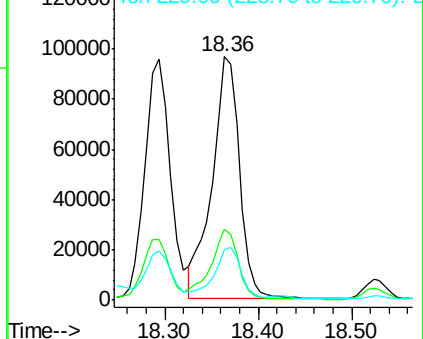
228 100

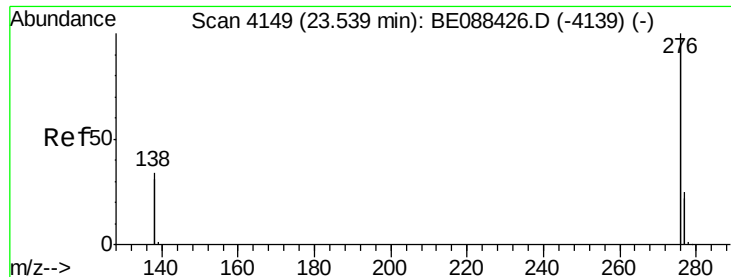
226 29.1 23.6 35.4

229 20.6 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: 1.51 ng

RT: 23.54 min Scan# 4148

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

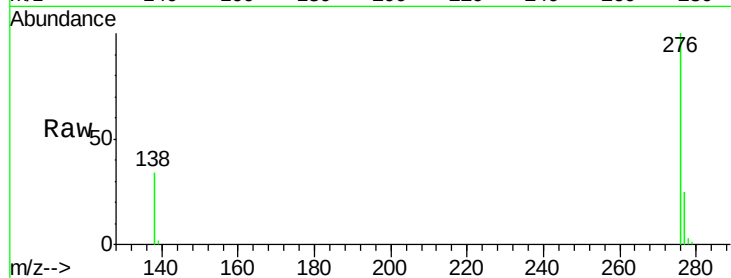
Tgt Ion:276 Resp: 88279

Ion Ratio Lower Upper

276 100

138 29.7 20.2 30.2

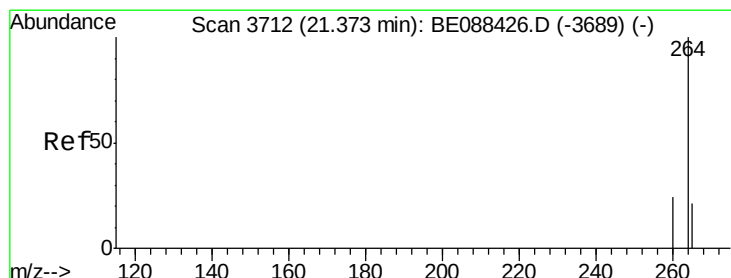
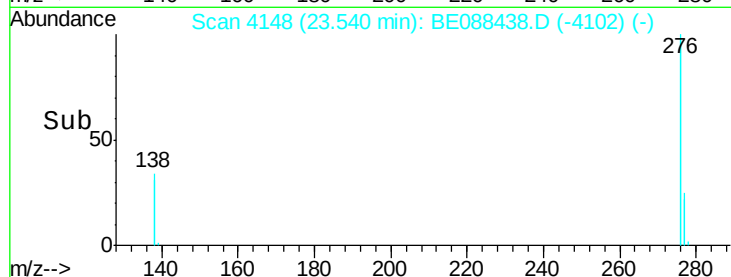
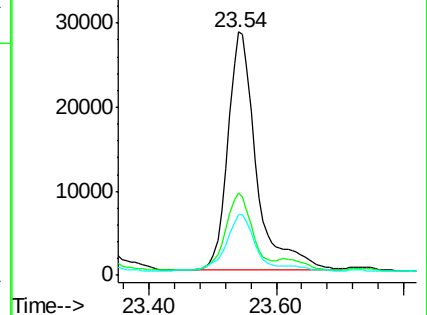
277 26.8 14.8 22.2#



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# 3711

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

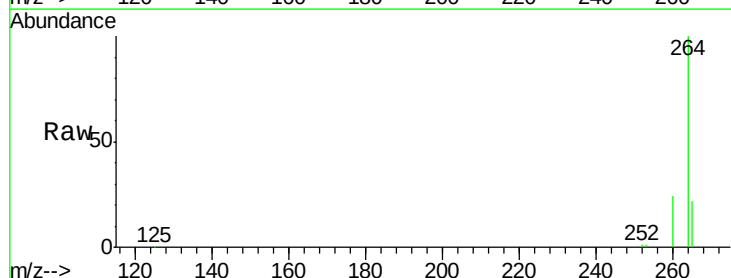
Tgt Ion:264 Resp: 62612

Ion Ratio Lower Upper

264 100

260 23.7 18.9 28.3

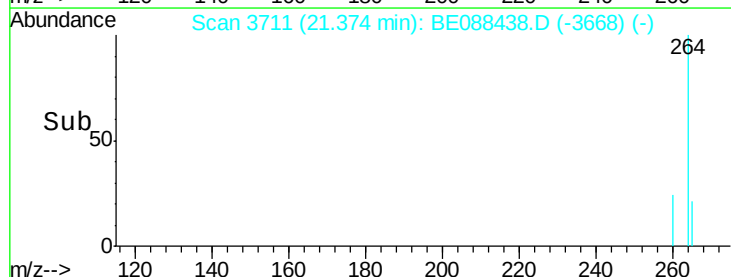
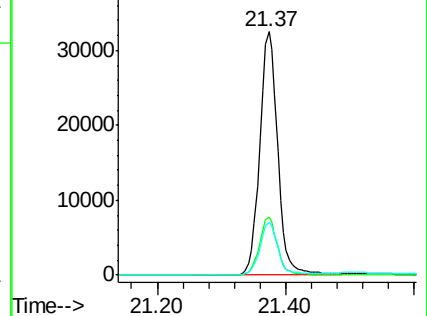
265 21.6 17.2 25.8

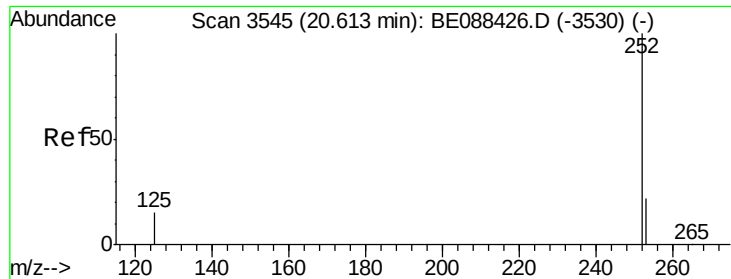


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 3.70 ng

RT: 20.62 min Scan# 3545

Delta R.T. 0.01 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

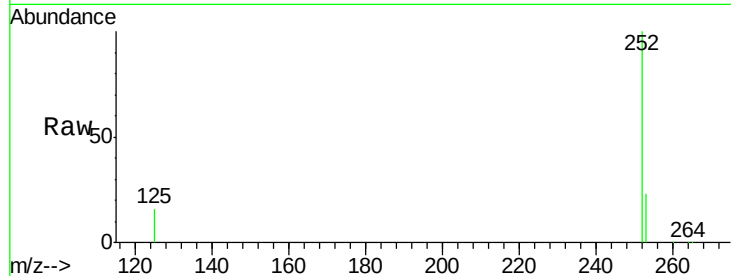
Tgt Ion:252 Resp: 50787

Ion Ratio Lower Upper

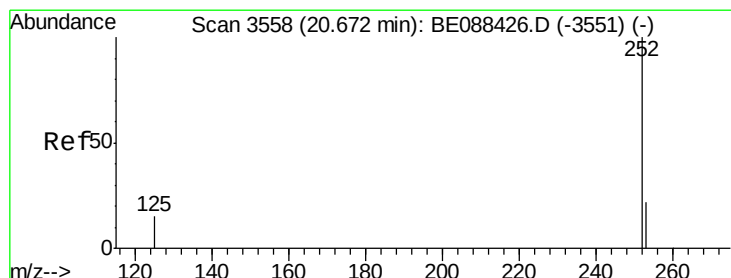
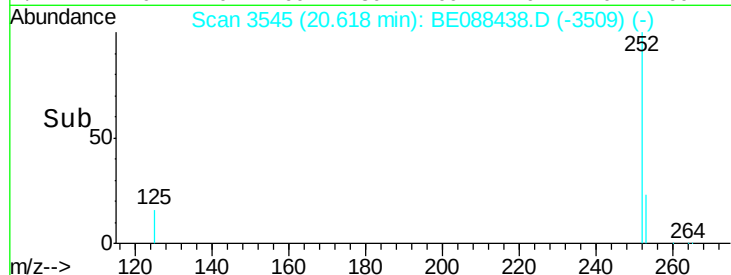
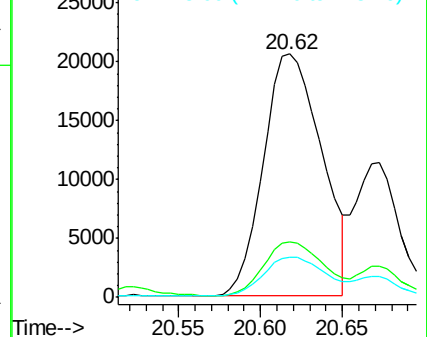
252 100

253 22.9 17.8 26.8

125 16.5 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: 1.34 ng

RT: 20.67 min Scan# 3557

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

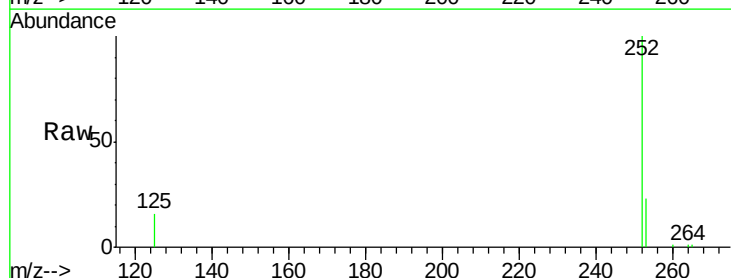
Tgt Ion:252 Resp: 20231

Ion Ratio Lower Upper

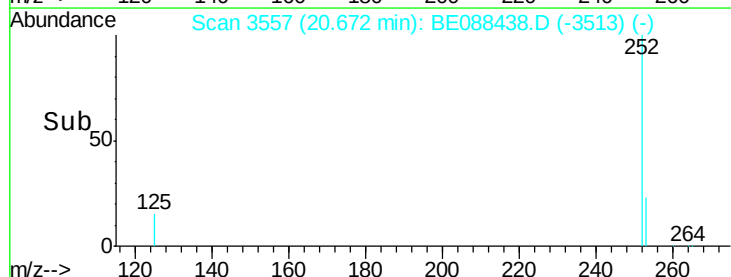
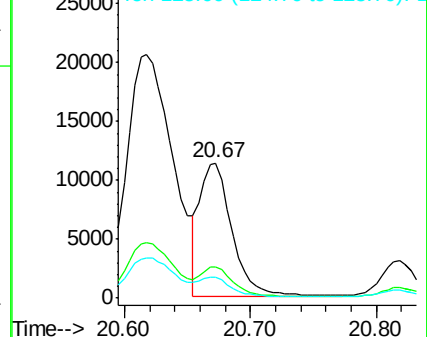
252 100

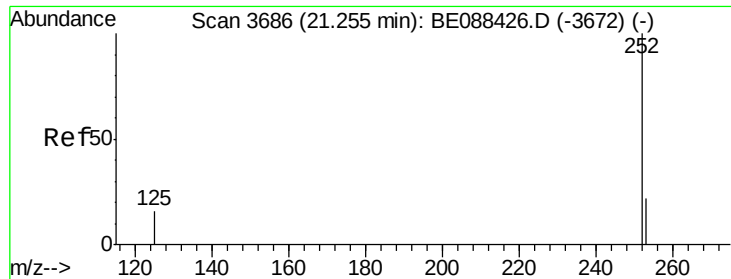
253 23.3 17.8 26.8

125 15.7 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: 2.53 ng

RT: 21.26 min Scan# 3685

Delta R.T. 0.00 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014

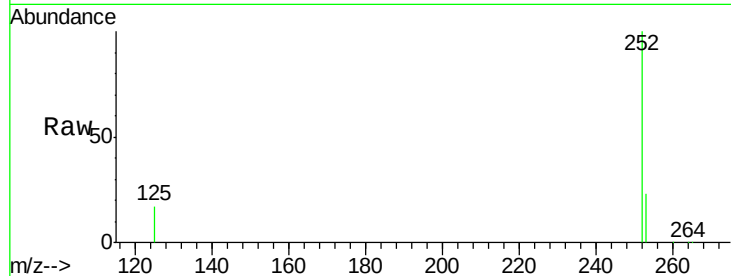
Tgt Ion: 252 Resp: 33360

Ion Ratio Lower Upper

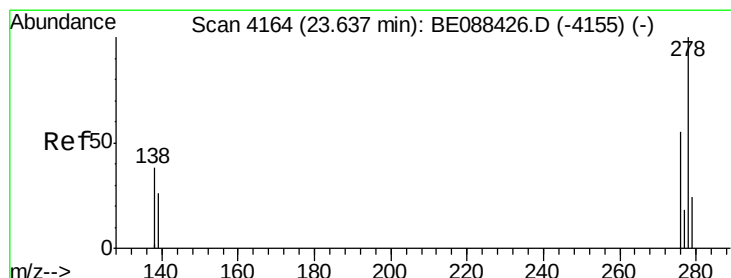
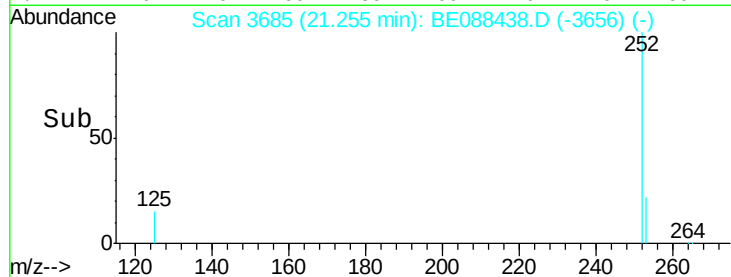
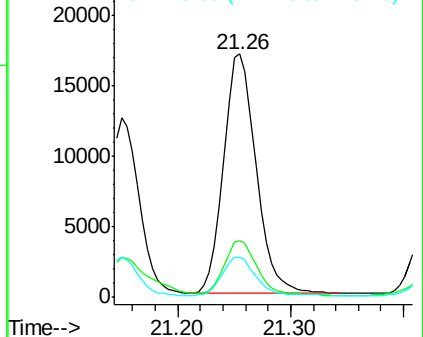
252 100

253 23.5 18.2 27.4

125 16.6 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: 0.38 ng

RT: 23.63 min Scan# 4162

Delta R.T. -0.01 min

Lab File: BE088438.D

Acq: 1 Nov 2014 00:52

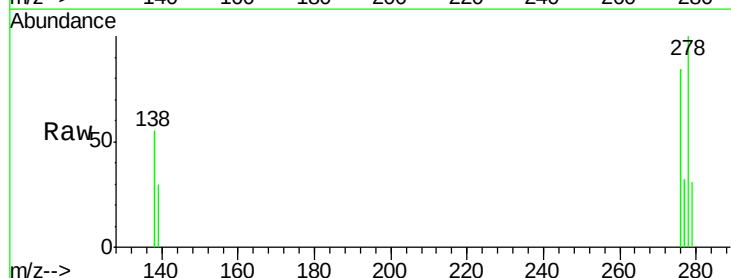
Tgt Ion: 278 Resp: 4620

Ion Ratio Lower Upper

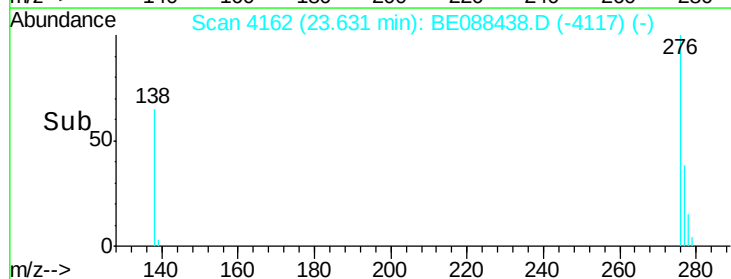
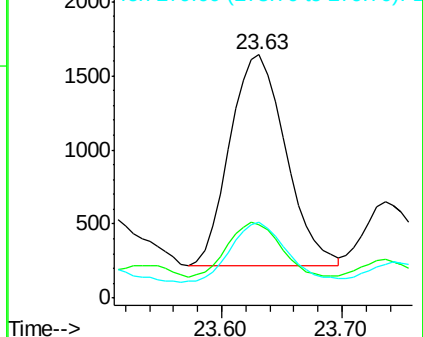
278 100

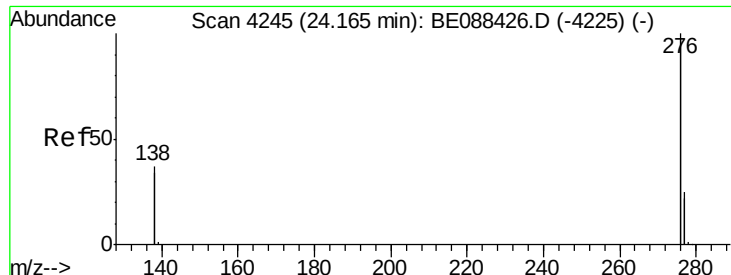
139 29.9 22.1 33.1

279 31.0 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: 1.40 ng

RT: 24.17 min Scan# 4244

Delta R.T. 0.00 min

Lab File: BE088438.D

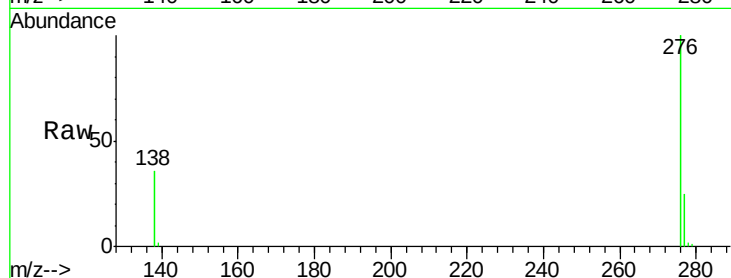
Acq: 1 Nov 2014 00:52

Instrument :

BNA_E

ClientSampleId :

YS19-SB41-1014



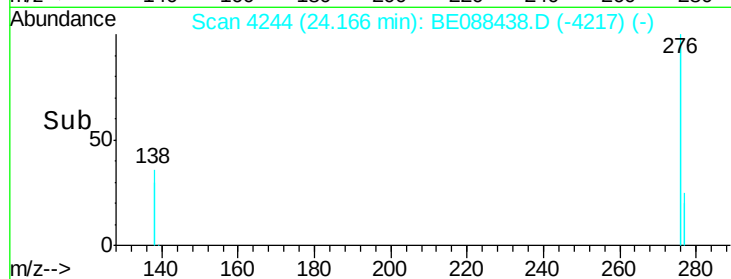
Tgt Ion:276 Resp: 78545

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.6

138 35.6 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

