

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088469.D
 Acq On : 2 Nov 2014 1:26
 Operator : TP/JJ
 Sample : F4368-05RE
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS41-1014RE

Quant Time: Nov 02 04:23:49 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	25208	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	89819	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	42664	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	85578	5.00	ng	0.00
16) Chrysene-d12	18.34	240	52883	5.00	ng	0.03
22) Perylene-d12	21.40	264	51073	5.00	ng	0.03

System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	532664	80.87	ng	0.02
8) 2-Fluorobiphenyl	10.00	172	617489	51.35	ng	0.01
18) Terphenyl-d14	16.11	244	491353	50.58	ng	0.04

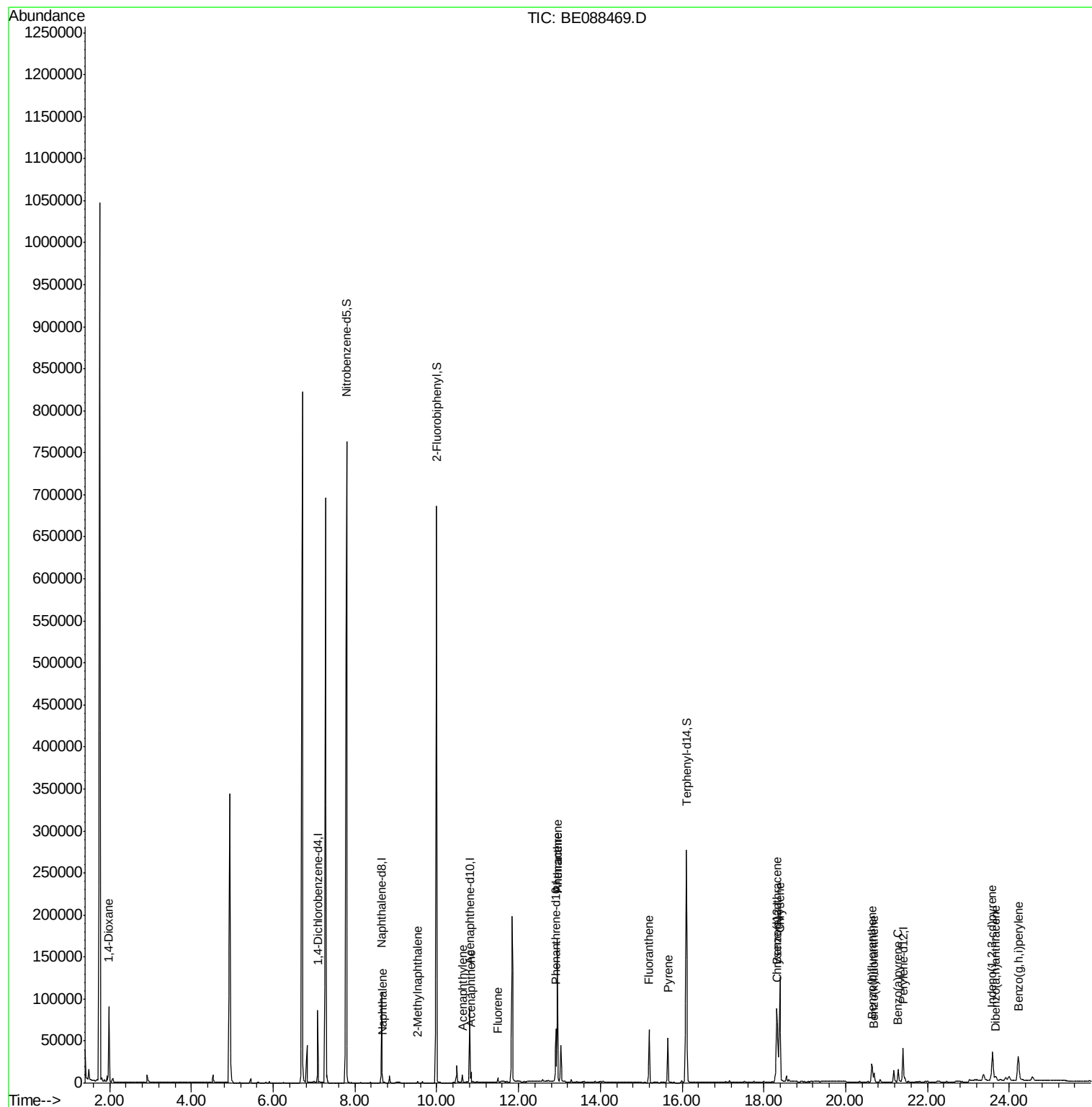
Target Compounds						Qvalue
2) 1,4-Dioxane	1.99	88	2955	0.90	ng	# 1
5) Naphthalene	8.68	128	2131	0.11	ng	# 93
6) 2-Methylnaphthalene	9.53	142	697	0.06	ng	# 93
9) Acenaphthylene	10.63	152	9442	0.14	ng	# 93
10) Acenaphthene	10.84	154	1832	0.18	ng	# 91
11) Fluorene	11.49	166	2758	0.25	ng	# 95
13) Phenanthrene	12.95	178	223677	2.88	ng	99
14) Anthracene	12.95	178	223677	3.56	ng	98
15) Fluoranthene	15.19	202	60368	4.78	ng	99
17) Pyrene	15.65	202	49778	2.89	ng	96
19) Benzo(a)anthracene	18.31	228	101362	2.04	ng	98
20) Chrysene	18.39	228	158258	3.24	ng	97
21) Indeno(1,2,3-cd)pyrene	23.59	276	59204	1.30	ng	# 88
23) Benzo(b)fluoranthene	20.64	252	37127	3.32	ng	# 95
24) Benzo(k)fluoranthene	20.69	252	13406	1.09	ng	# 94
25) Benzo(a)pyrene	21.28	252	19615	1.82	ng	# 95
26) Dibenzo(a,h)anthracene	23.67	278	3627	0.36	ng	# 68
27) Benzo(g,h,i)perylene	24.22	276	58715	1.28	ng	97

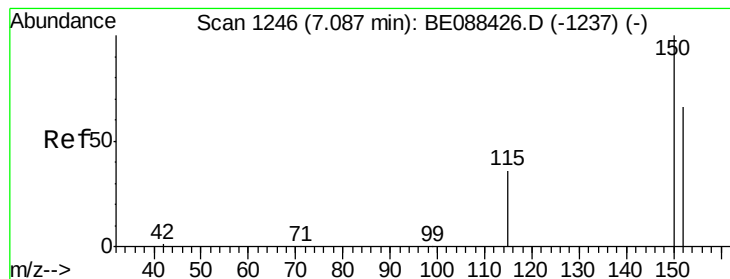
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

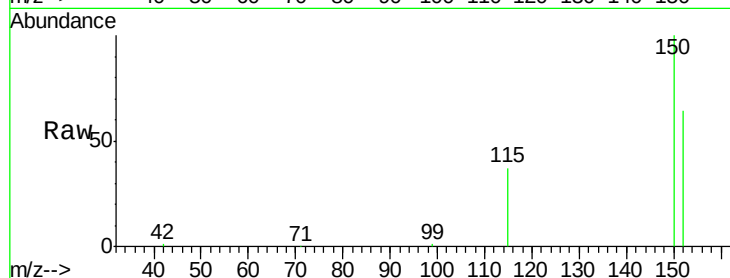
Tgt Ion:152 Resp: 25208

Ion Ratio Lower Upper

152 100

150 157.5 121.8 182.8

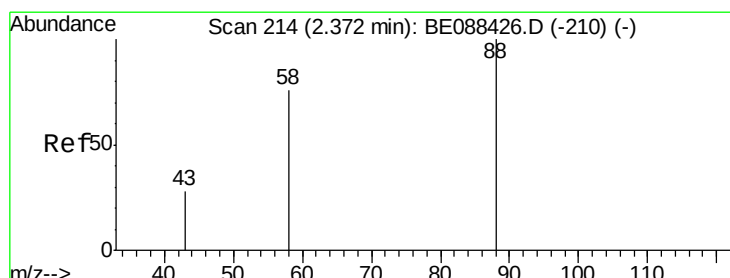
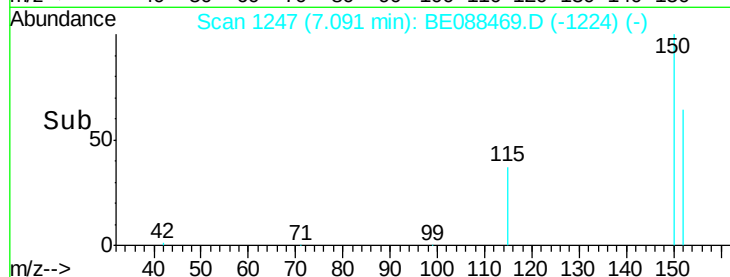
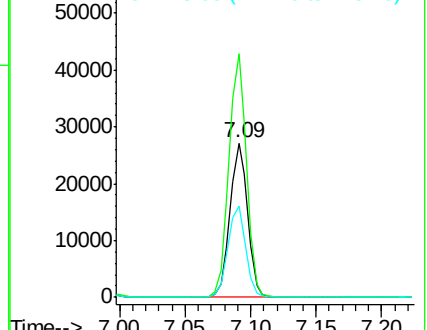
115 59.0 43.9 65.9



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: 0.90 ng

RT: 1.99 min Scan# 130

Delta R.T. -0.38 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

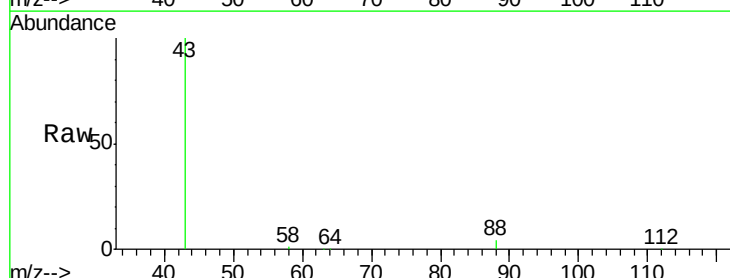
Tgt Ion: 88 Resp: 2955

Ion Ratio Lower Upper

88 100

58 26.3 59.1 88.7#

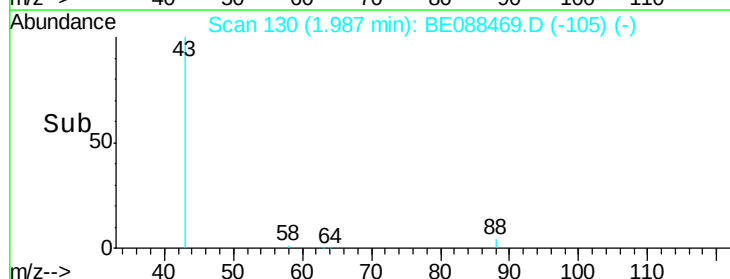
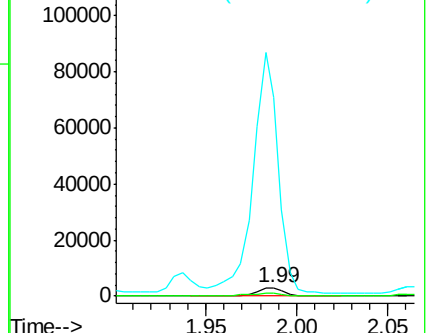
43 2809.0 21.9 32.9#

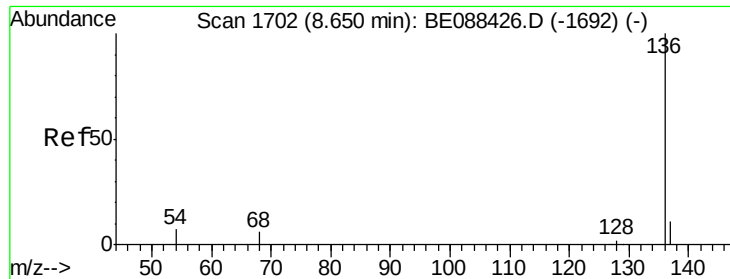


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

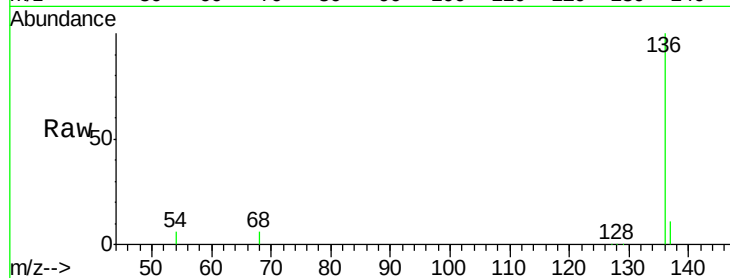




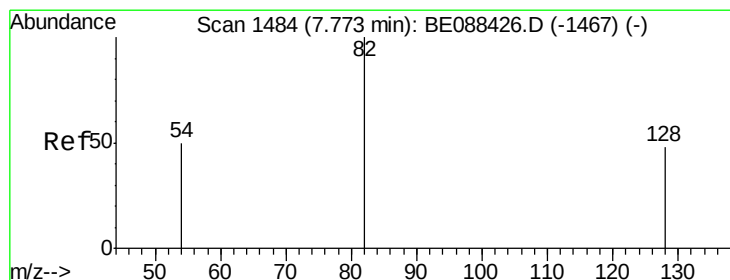
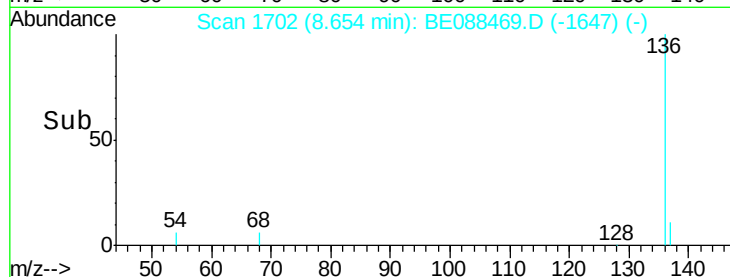
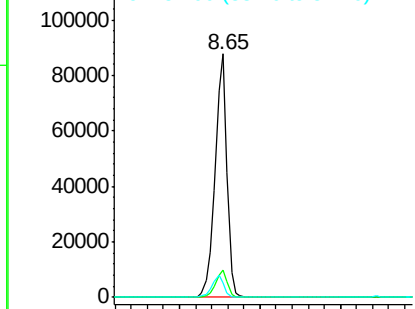
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. 0.00 min
Lab File: BE088469.D
Acq: 2 Nov 2014 1:26

Instrument :
BNA_E
ClientSampleId :
YS19-SS41-1014RE

Tgt Ion: 136 Resp: 89819
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 6.2 5.3 7.9

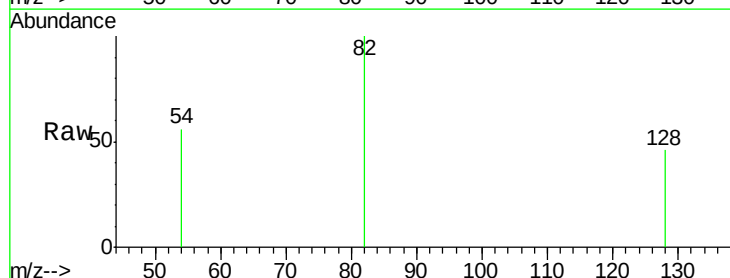


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): E

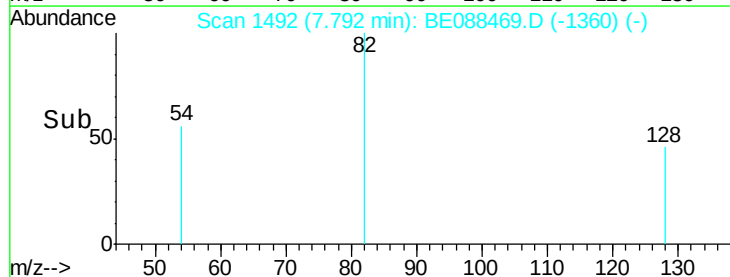
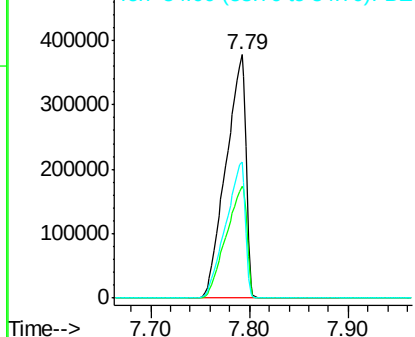


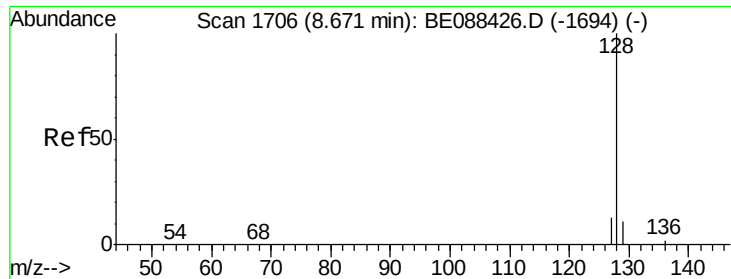
#4
Nitrobenzene-d5
Concen: 80.87 ng
RT: 7.79 min Scan# 1492
Delta R.T. 0.02 min
Lab File: BE088469.D
Acq: 2 Nov 2014 1:26

Tgt Ion: 82 Resp: 532664
Ion Ratio Lower Upper
82 100
128 46.2 38.4 57.6
54 55.8 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): E
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): E





#5

Naphthalene

Concen: 0.11 ng

RT: 8.68 min Scan# 1706

Delta R.T. 0.00 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

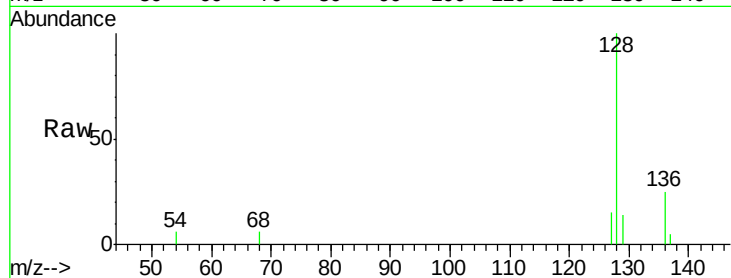
Tgt Ion:128 Resp: 2131

Ion Ratio Lower Upper

128 100

129 13.7 8.6 12.8#

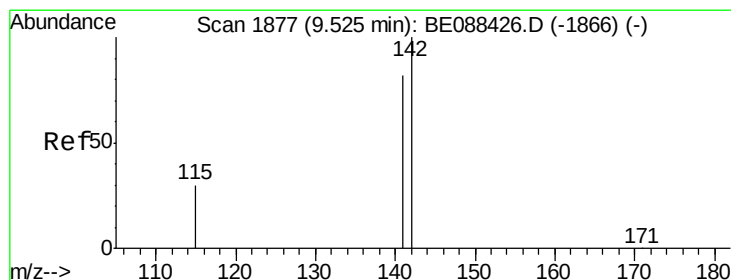
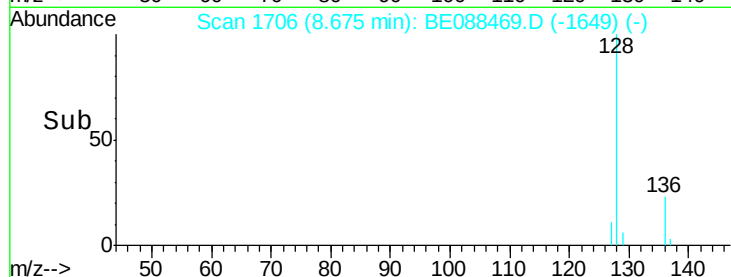
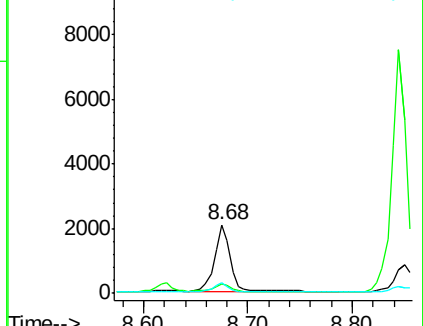
127 14.7 10.1 15.1



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: 0.06 ng

RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

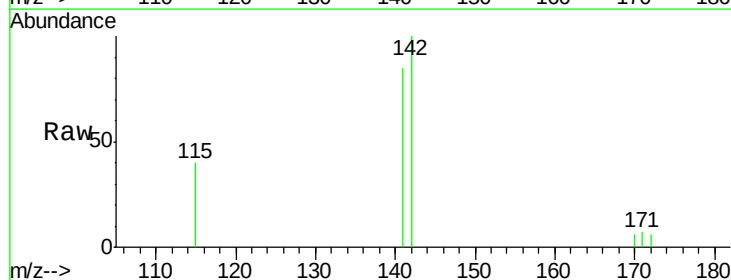
Tgt Ion:142 Resp: 697

Ion Ratio Lower Upper

142 100

141 84.6 65.8 98.8

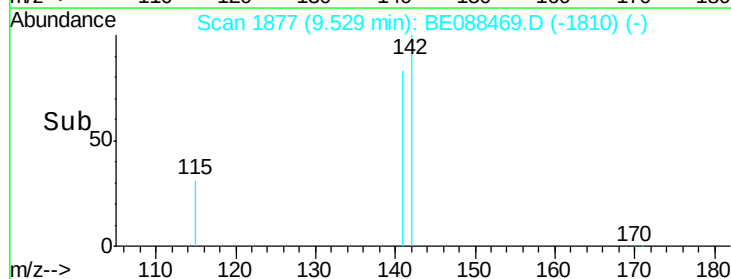
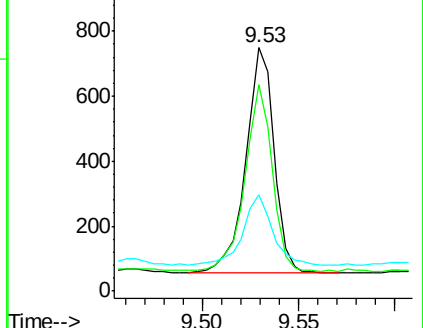
115 39.8 24.2 36.4#

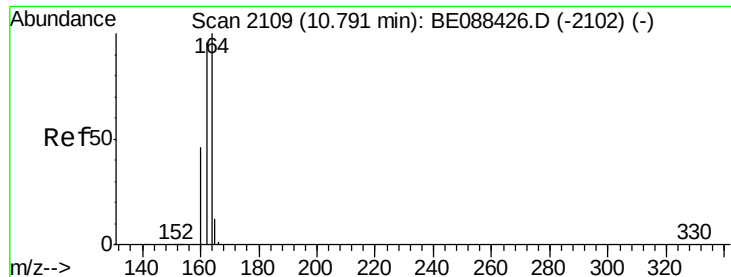


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.80 min Scan# 2109

Delta R.T. 0.01 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

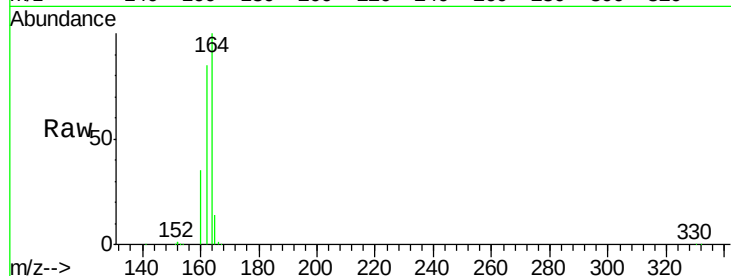
Tgt Ion:164 Resp: 42664

Ion Ratio Lower Upper

164 100

162 84.7 77.0 115.4

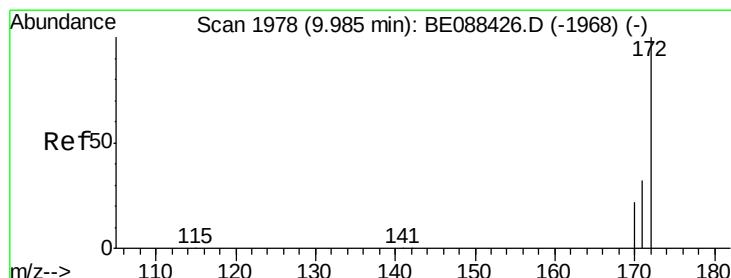
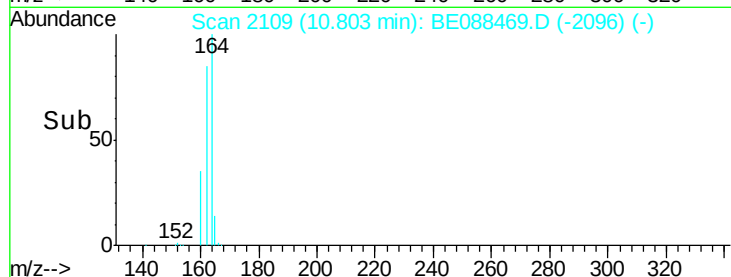
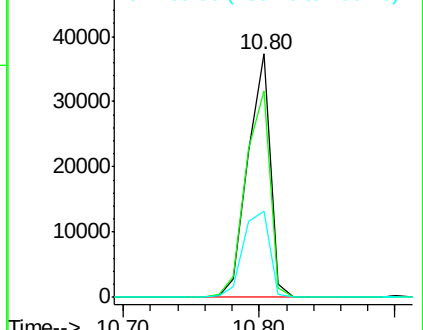
160 35.4 36.8 55.2#



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: 51.35 ng

RT: 10.00 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

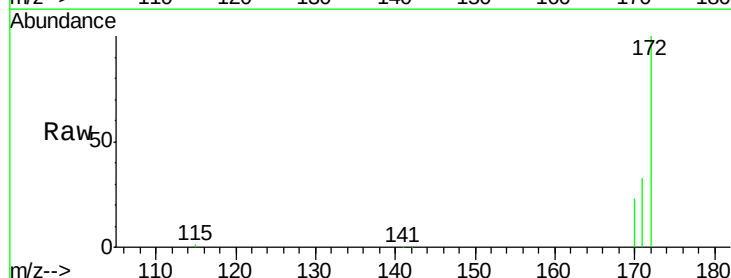
Tgt Ion:172 Resp: 617489

Ion Ratio Lower Upper

172 100

171 33.4 26.0 39.0

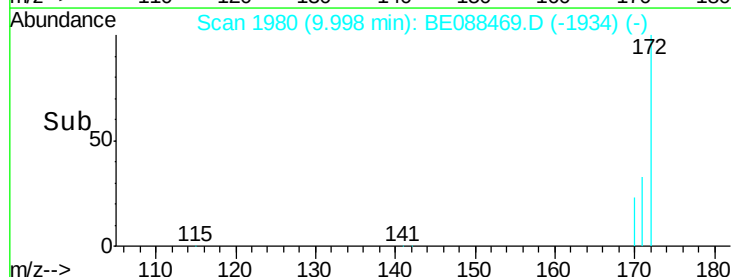
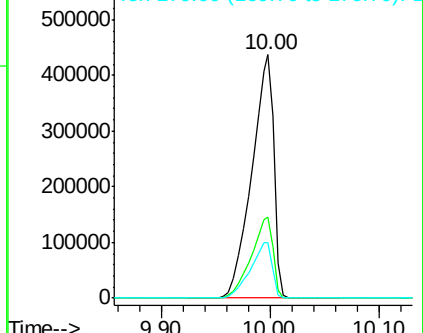
170 22.9 17.6 26.4

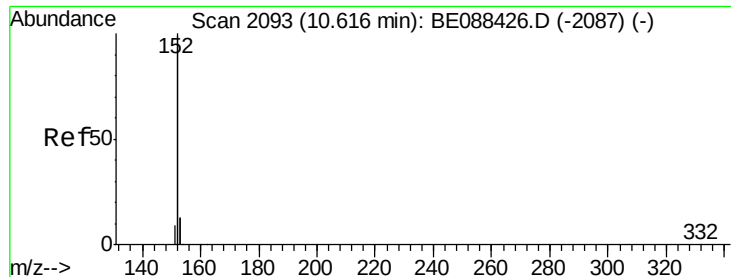


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.14 ng

RT: 10.63 min Scan# 2093

Delta R.T. 0.01 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

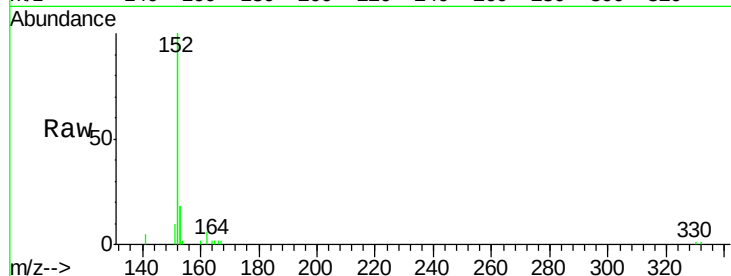
Tgt Ion:152 Resp: 9442

Ion Ratio Lower Upper

152 100

151 4.3 4.4 6.6#

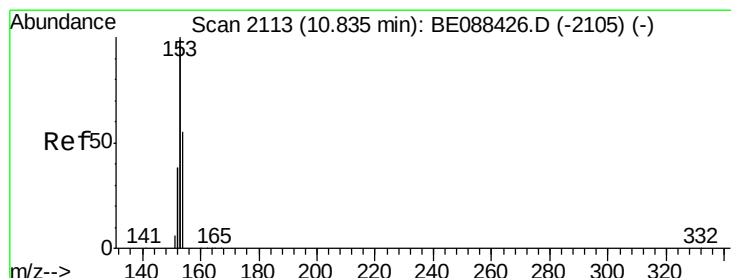
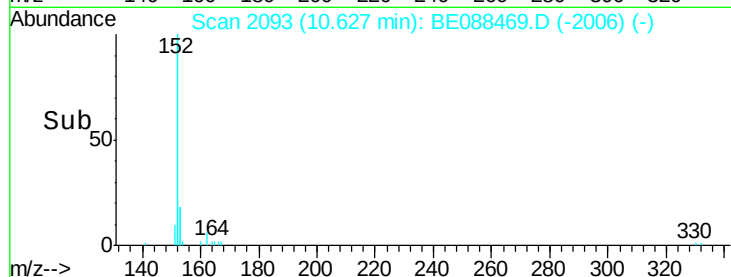
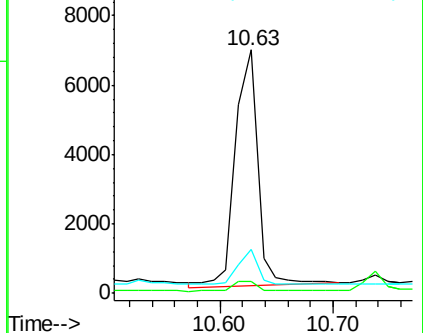
153 16.4 10.5 15.7#



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: 0.18 ng

RT: 10.84 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

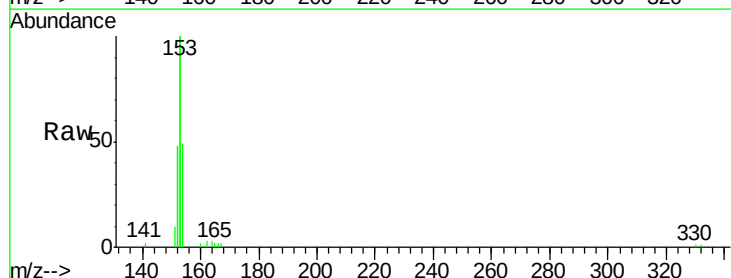
Tgt Ion:154 Resp: 1832

Ion Ratio Lower Upper

154 100

153 376.0 324.3 486.5

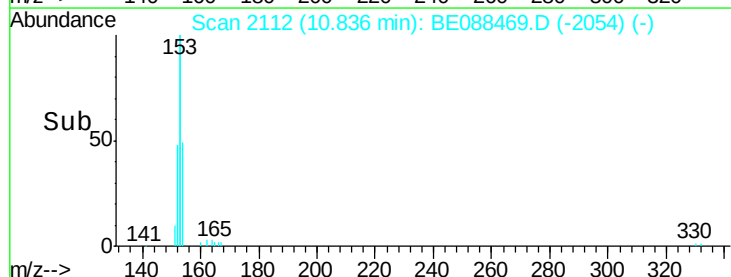
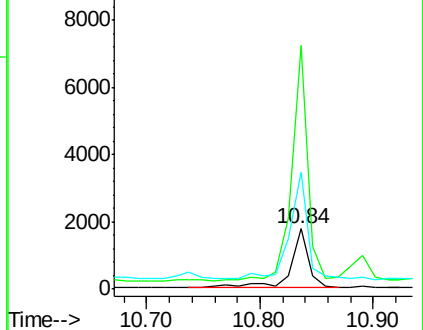
152 188.5 154.9 232.3

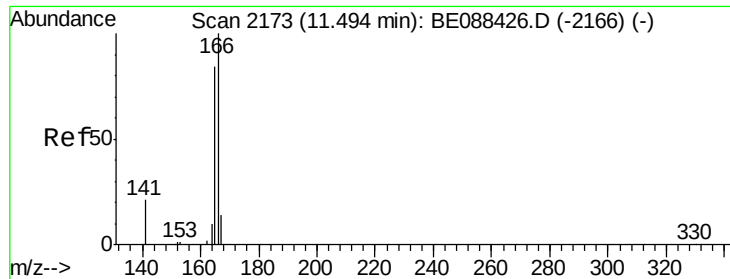


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

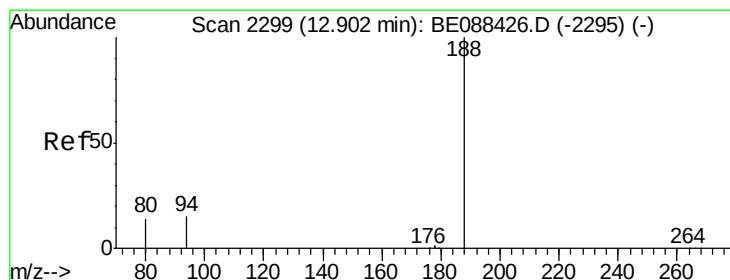
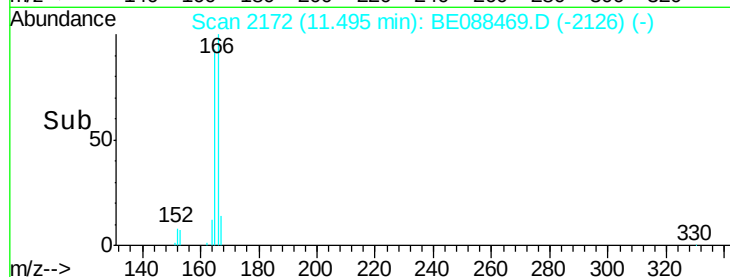
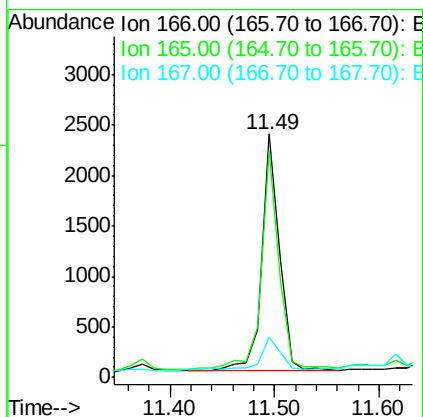
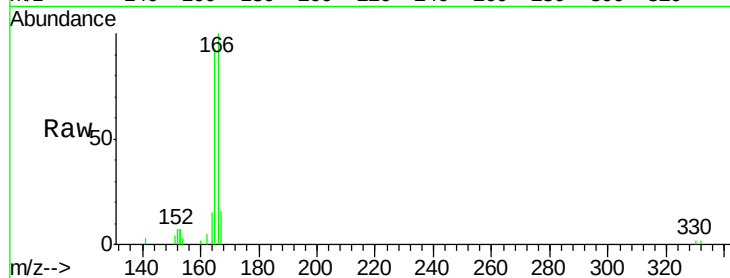




#11
 Fluorene
 Concen: 0.25 ng
 RT: 11.49 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: BE088469.D
 Acq: 2 Nov 2014 1:26

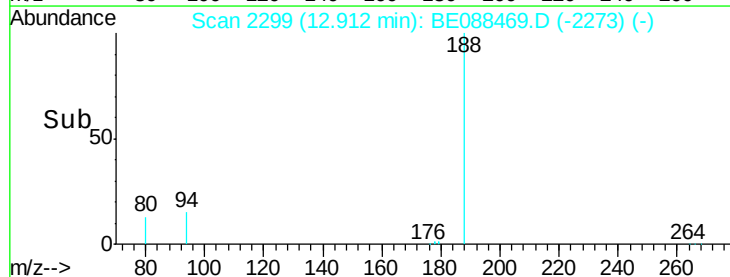
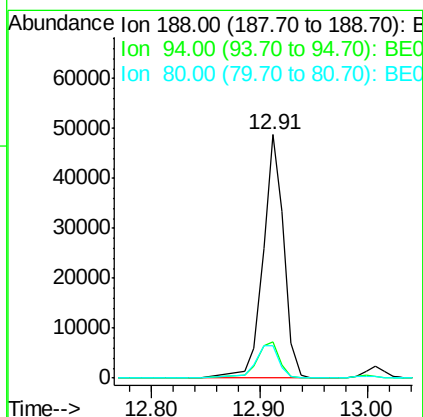
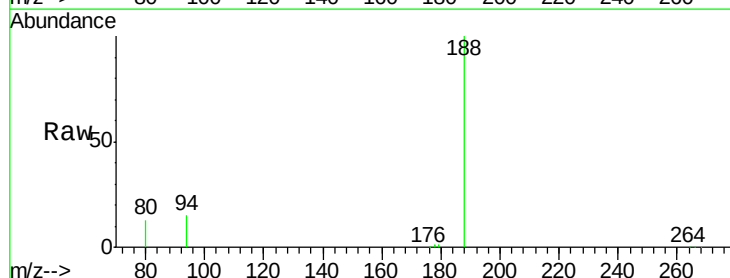
Instrument :
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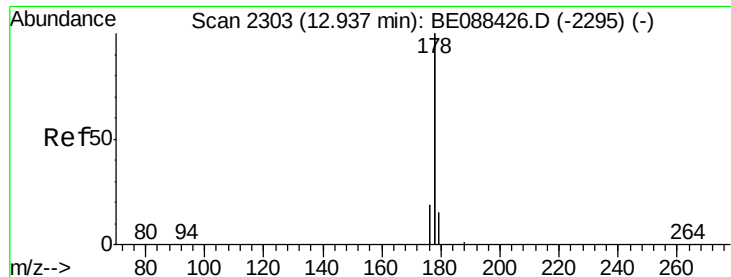
Tgt Ion:166 Resp: 2758
 Ion Ratio Lower Upper
 166 100
 165 93.2 71.3 106.9
 167 17.1 10.7 16.1#



#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.91 min Scan# 2299
 Delta R.T. 0.01 min
 Lab File: BE088469.D
 Acq: 2 Nov 2014 1:26

Tgt Ion:188 Resp: 85578
 Ion Ratio Lower Upper
 188 100
 94 14.8 11.8 17.8
 80 13.4 10.9 16.3





#13

Phenanthrene

Concen: 2.88 ng

RT: 12.95 min Scan# 2303

Delta R.T. 0.01 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

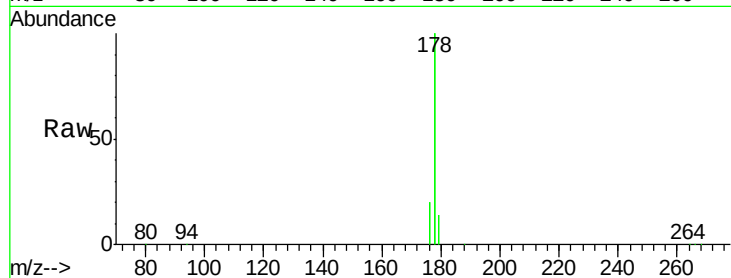
Tgt Ion:178 Resp: 223677

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

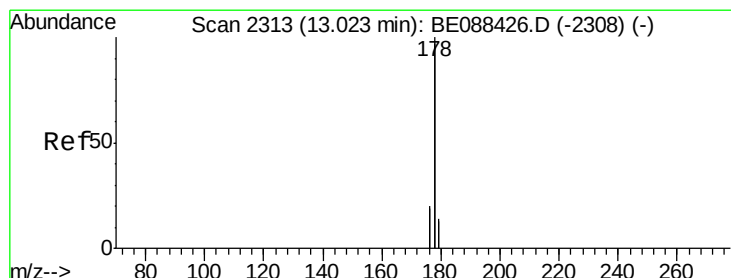
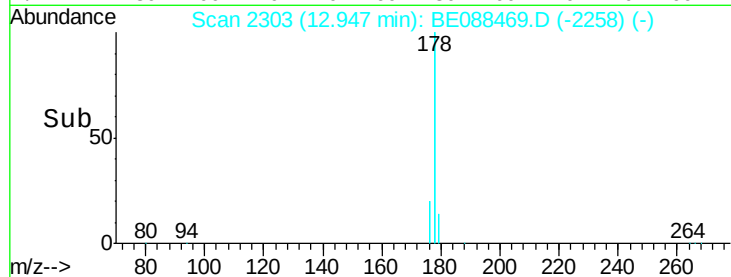
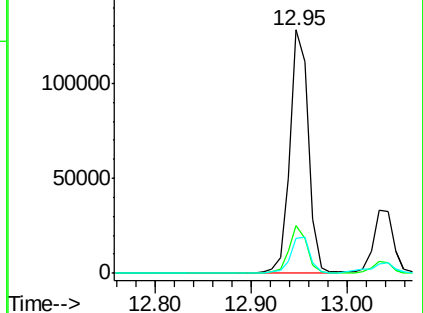
179 16.6 12.8 19.2



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: 3.56 ng

RT: 12.95 min Scan# 2303

Delta R.T. -0.08 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

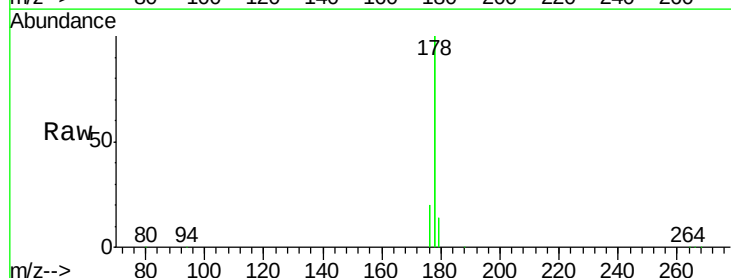
Tgt Ion:178 Resp: 223677

Ion Ratio Lower Upper

178 100

176 19.3 15.0 22.4

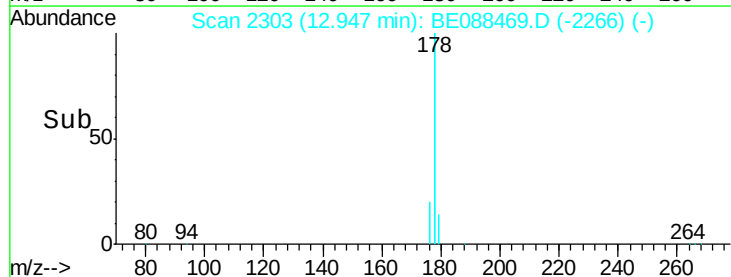
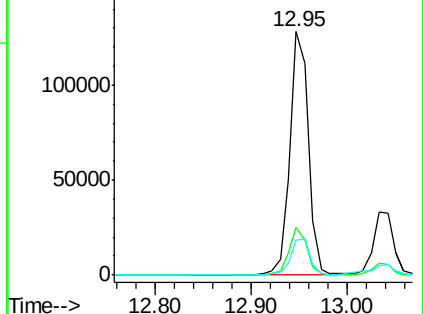
179 16.6 12.5 18.7

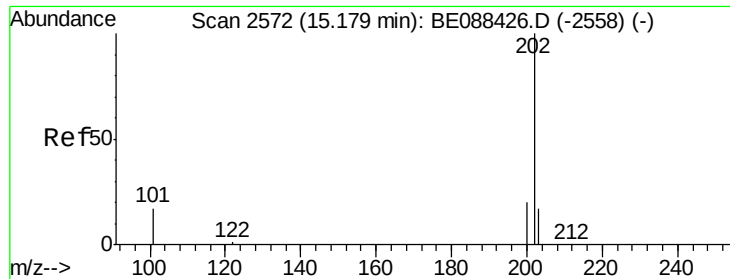


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

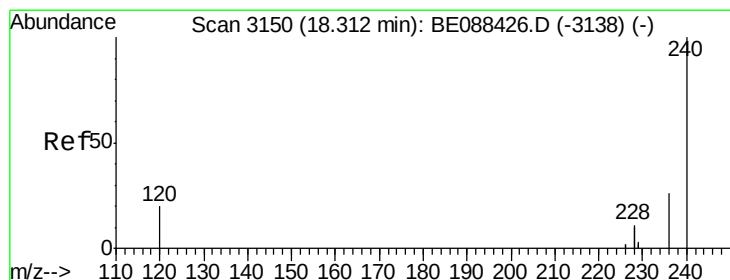
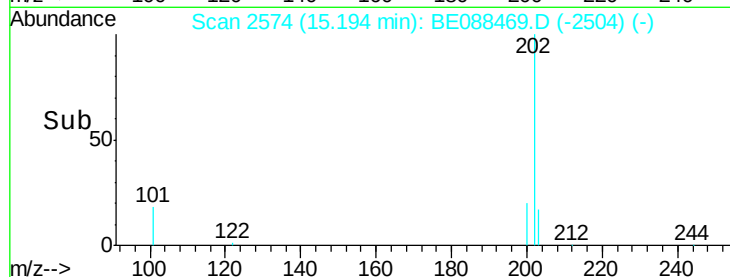
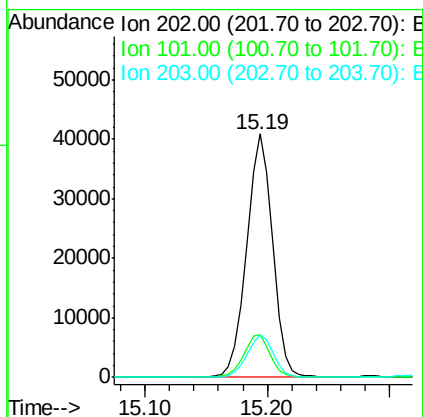
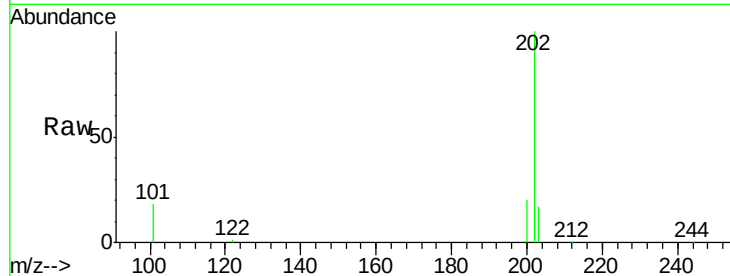




#15
Fluoranthene
Concen: 4.78 ng
RT: 15.19 min Scan# 2574
Delta R.T. 0.01 min
Lab File: BE088469.D
Acq: 2 Nov 2014 1:26

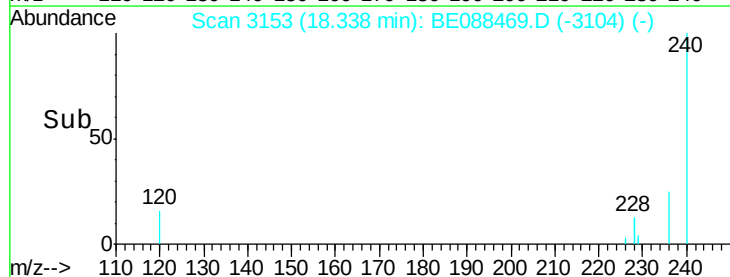
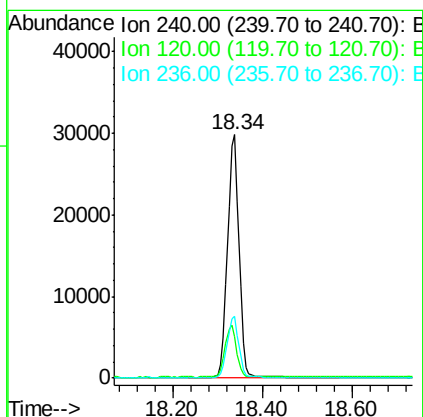
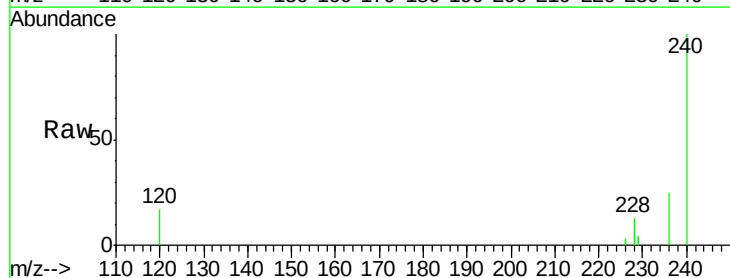
Instrument :
BNA_E
ClientSampleId :
YS19-SS41-1014RE

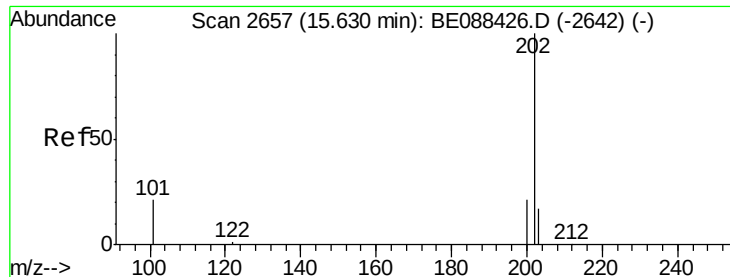
Tgt Ion: 202 Resp: 60368
Ion Ratio Lower Upper
202 100
101 17.8 14.3 21.5
203 17.3 13.6 20.4



#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.34 min Scan# 3153
Delta R.T. 0.03 min
Lab File: BE088469.D
Acq: 2 Nov 2014 1:26

Tgt Ion: 240 Resp: 52883
Ion Ratio Lower Upper
240 100
120 16.9 16.4 24.6
236 25.2 20.5 30.7

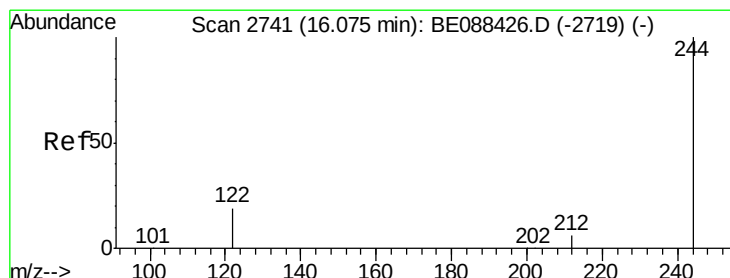
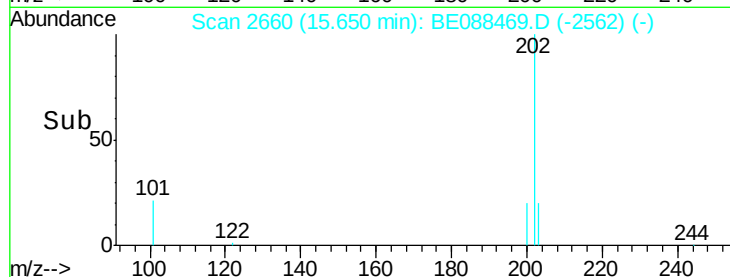
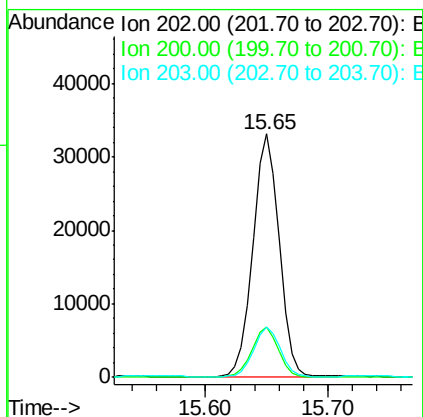
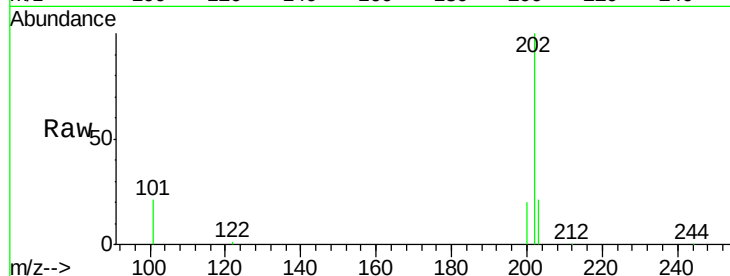




#17
Pyrene
 Concen: 2.89 ng
 RT: 15.65 min Scan# 2660
 Delta R.T. 0.02 min
 Lab File: BE088469.D
 Acq: 2 Nov 2014 1:26

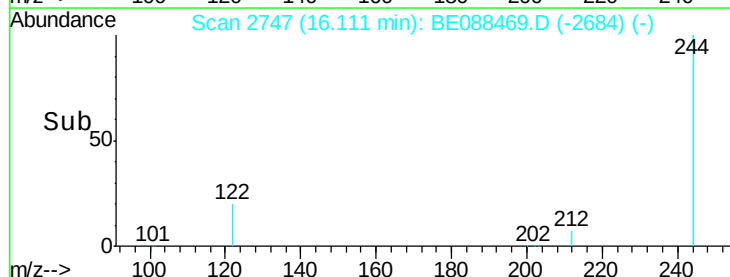
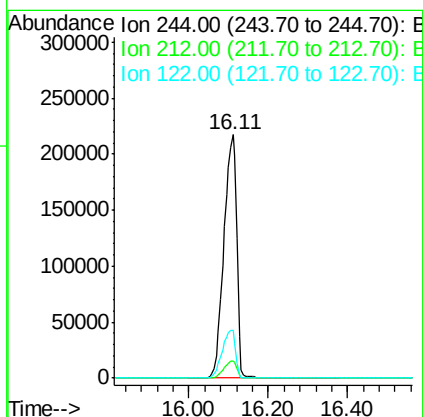
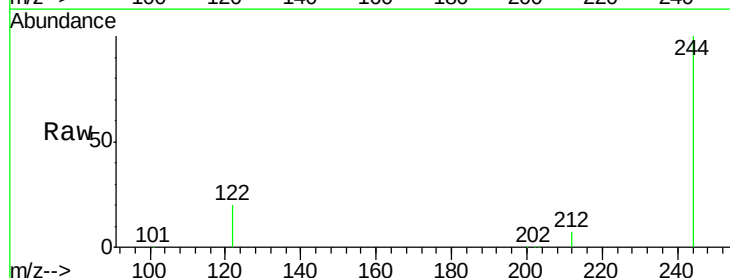
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS41-1014RE

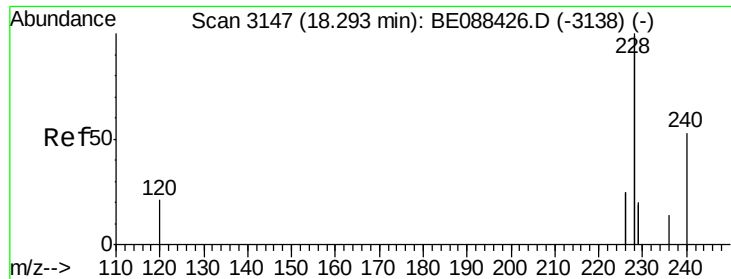
Tgt Ion: 202 Resp: 49778
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.1 24.1
 203 20.5 13.8 20.8



#18
Terphenyl-d14
 Concen: 50.58 ng
 RT: 16.11 min Scan# 2747
 Delta R.T. 0.04 min
 Lab File: BE088469.D
 Acq: 2 Nov 2014 1:26

Tgt Ion: 244 Resp: 491353
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 19.6 15.6 23.4





#19

Benzo(a)anthracene

Concen: 2.04 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.02 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

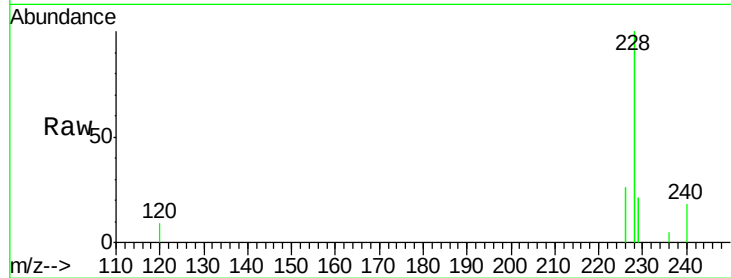
Tgt Ion:228 Resp: 101362

Ion Ratio Lower Upper

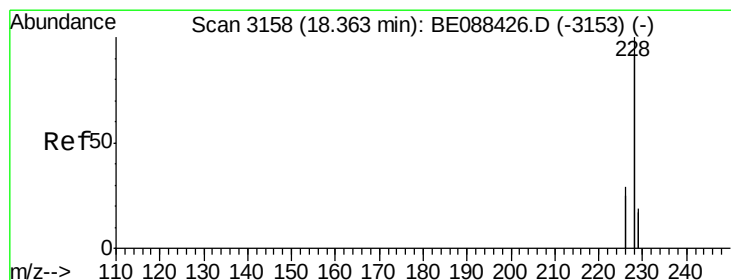
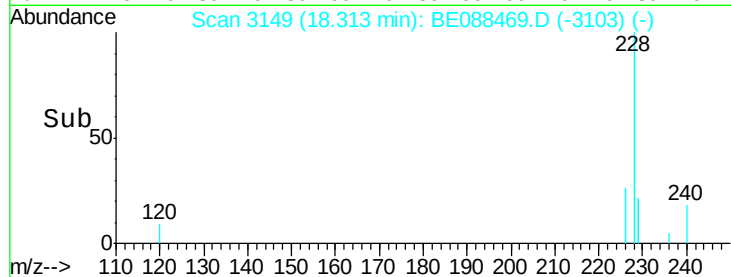
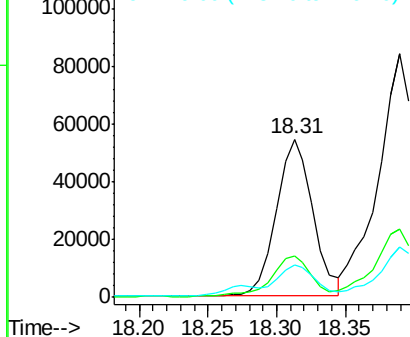
228 100

226 25.8 19.8 29.6

229 20.8 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: 3.24 ng

RT: 18.39 min Scan# 3161

Delta R.T. 0.03 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

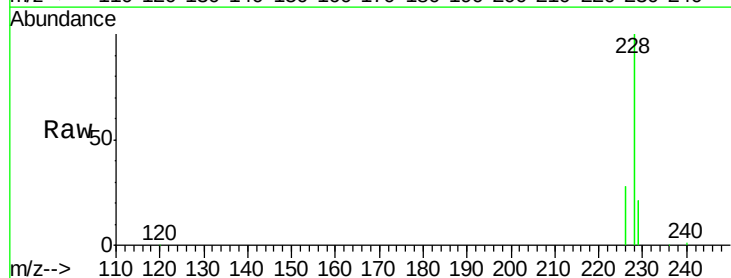
Tgt Ion:228 Resp: 158258

Ion Ratio Lower Upper

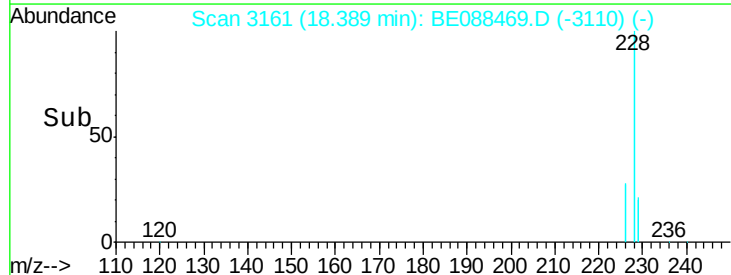
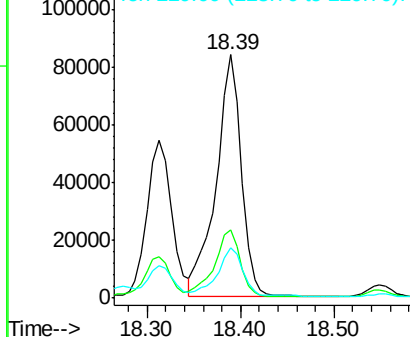
228 100

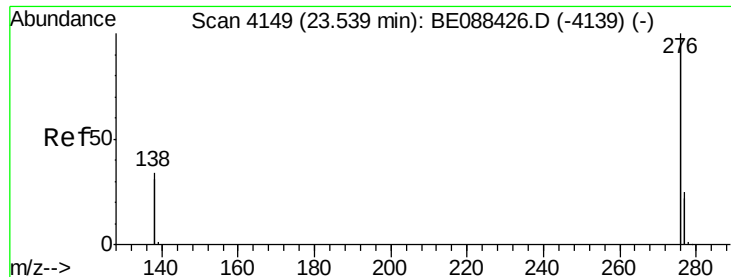
226 28.3 23.6 35.4

229 20.9 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: 1.30 ng

RT: 23.59 min Scan# 4155

Delta R.T. 0.05 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

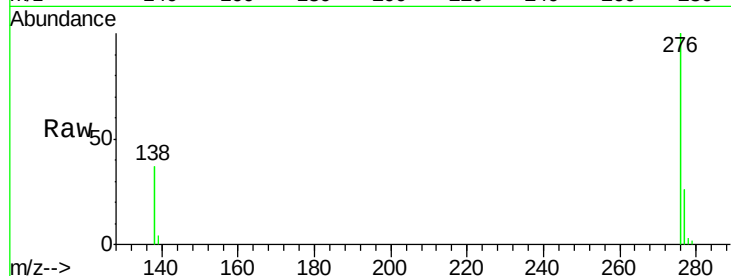
Tgt Ion:276 Resp: 59204

Ion Ratio Lower Upper

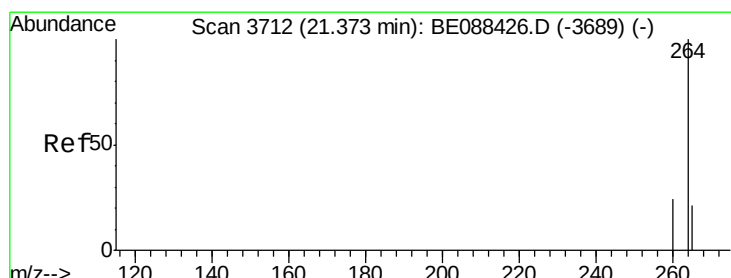
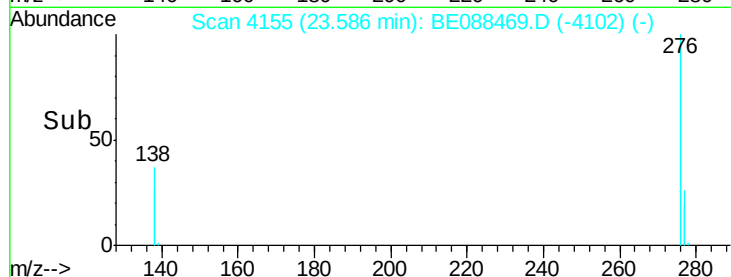
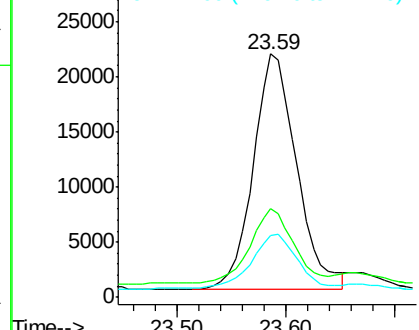
276 100

138 31.5 20.2 30.2#

277 24.0 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: 21.40 min Scan# 3717

Delta R.T. 0.03 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

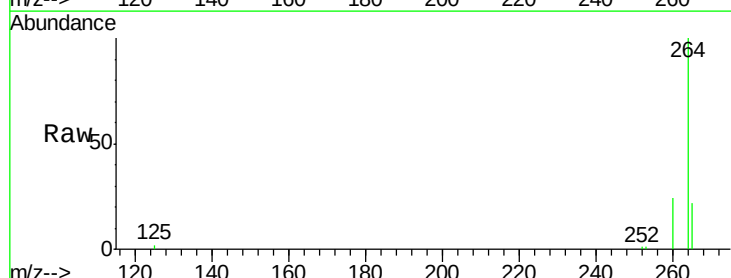
Tgt Ion:264 Resp: 51073

Ion Ratio Lower Upper

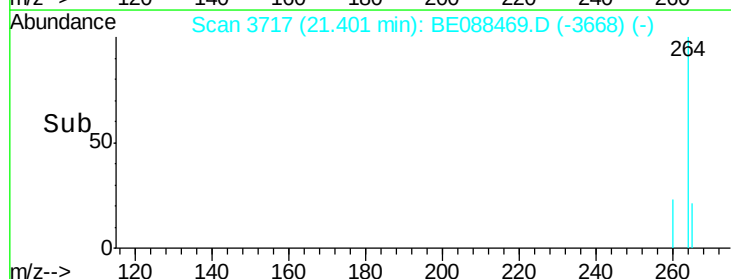
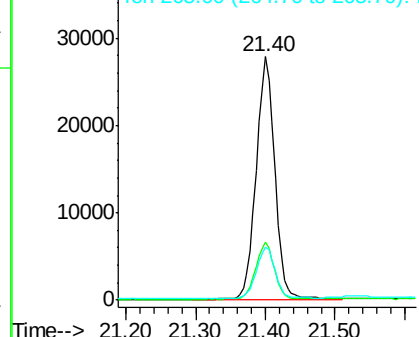
264 100

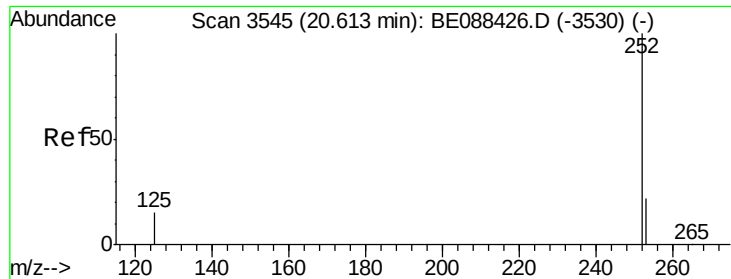
260 23.8 18.9 28.3

265 21.9 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: 3.32 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.03 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

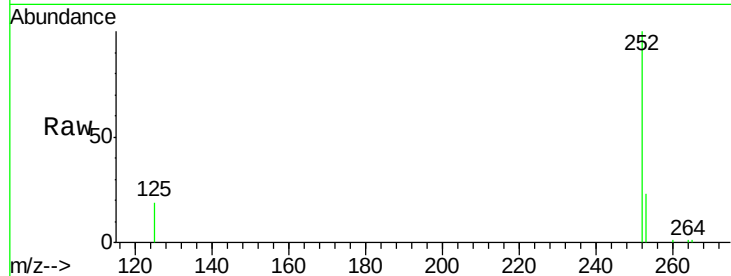
Tgt Ion:252 Resp: 37127

Ion Ratio Lower Upper

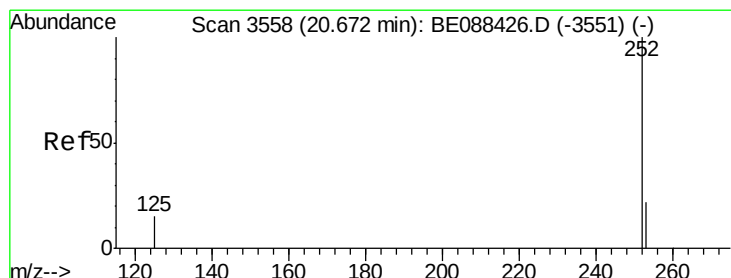
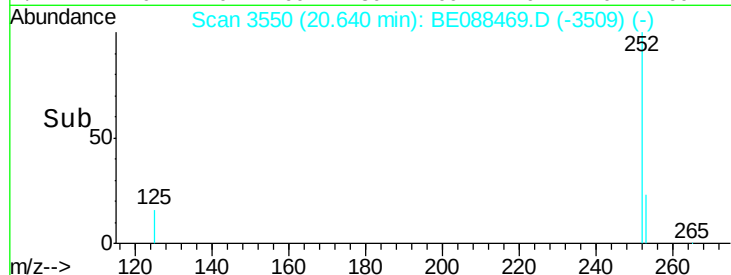
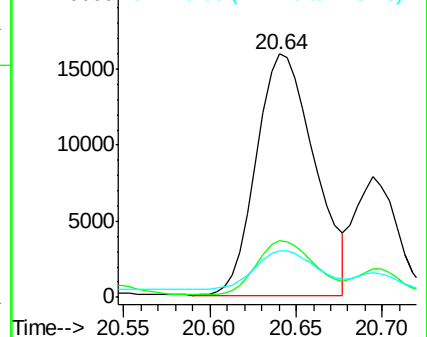
252 100

253 23.3 17.8 26.8

125 19.1 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: 1.09 ng

RT: 20.69 min Scan# 3562

Delta R.T. 0.02 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

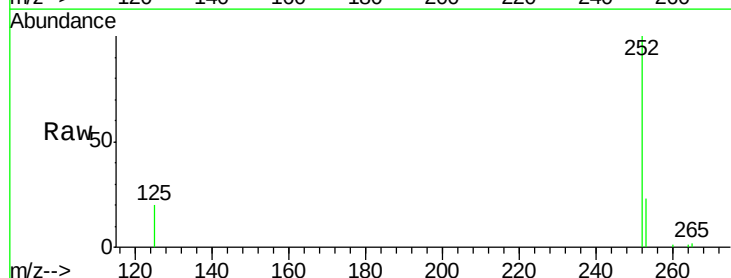
Tgt Ion:252 Resp: 13406

Ion Ratio Lower Upper

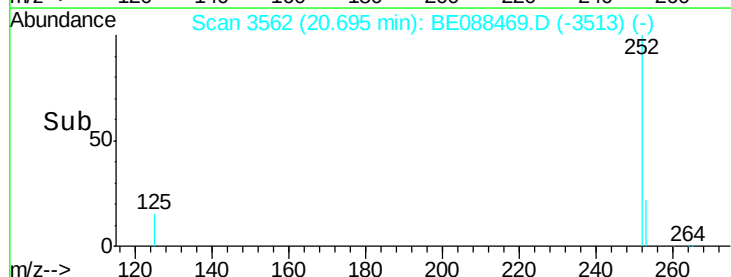
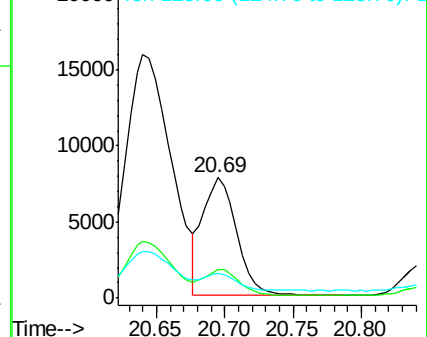
252 100

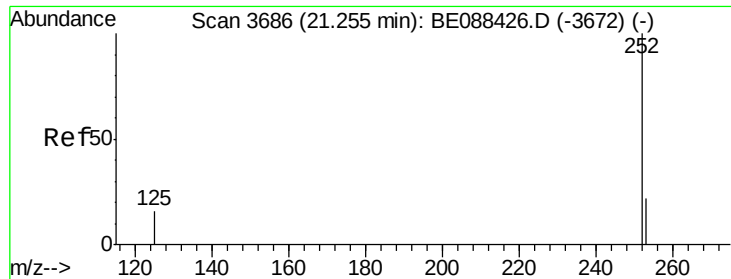
253 23.3 17.8 26.8

125 20.4 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: 1.82 ng

RT: 21.28 min Scan# 3691

Delta R.T. 0.03 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

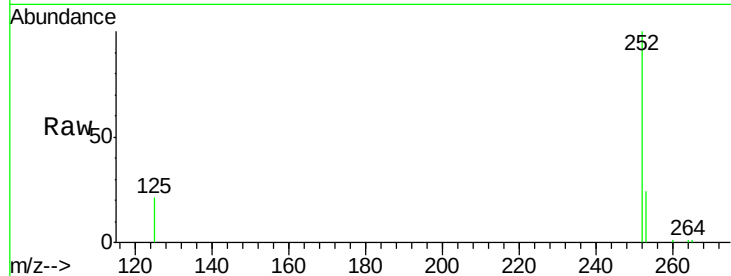
Tgt Ion: 252 Resp: 19615

Ion Ratio Lower Upper

252 100

253 24.1 18.2 27.4

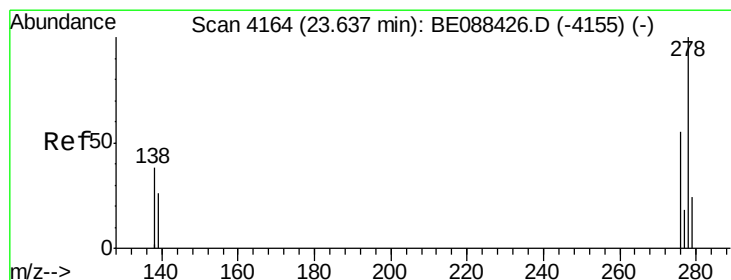
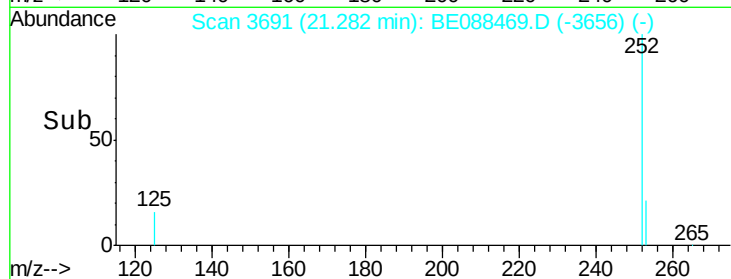
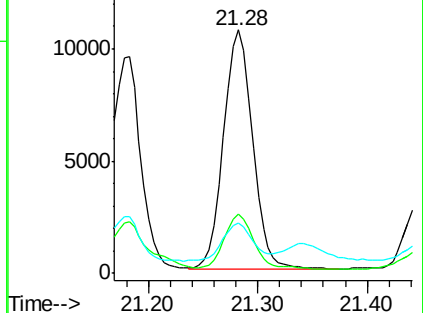
125 20.8 13.7 20.5#



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: 0.36 ng

RT: 23.67 min Scan# 4168

Delta R.T. 0.03 min

Lab File: BE088469.D

Acq: 2 Nov 2014 1:26

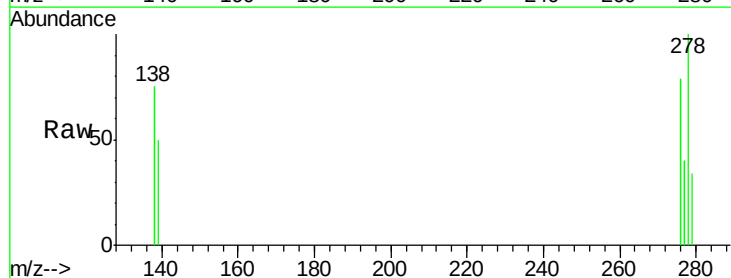
Tgt Ion: 278 Resp: 3627

Ion Ratio Lower Upper

278 100

139 49.9 22.1 33.1#

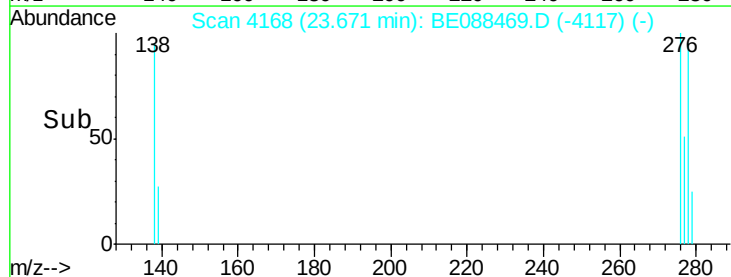
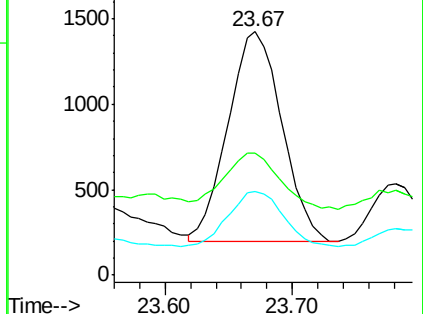
279 34.1 19.7 29.5#

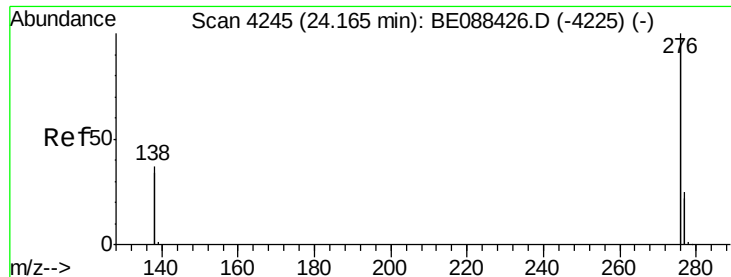


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.28 ng

RT: 24.22 min Scan# 4252

Delta R.T. 0.05 min

Lab File: BE088469.D

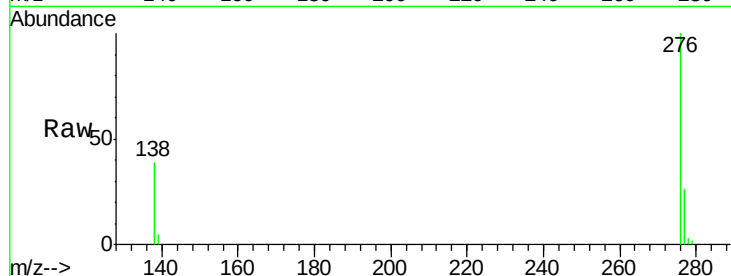
Acq: 2 Nov 2014 1:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE



Tgt Ion: 276 Resp: 58715

Ion Ratio Lower Upper

276 100

277 26.0 19.8 29.6

138 39.0 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

