

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088463.D
 Acq On : 1 Nov 2014 22:03
 Operator : TP/JJ
 Sample : F4312-12RE
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS28-1014RE

Quant Time: Nov 02 04:21:17 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

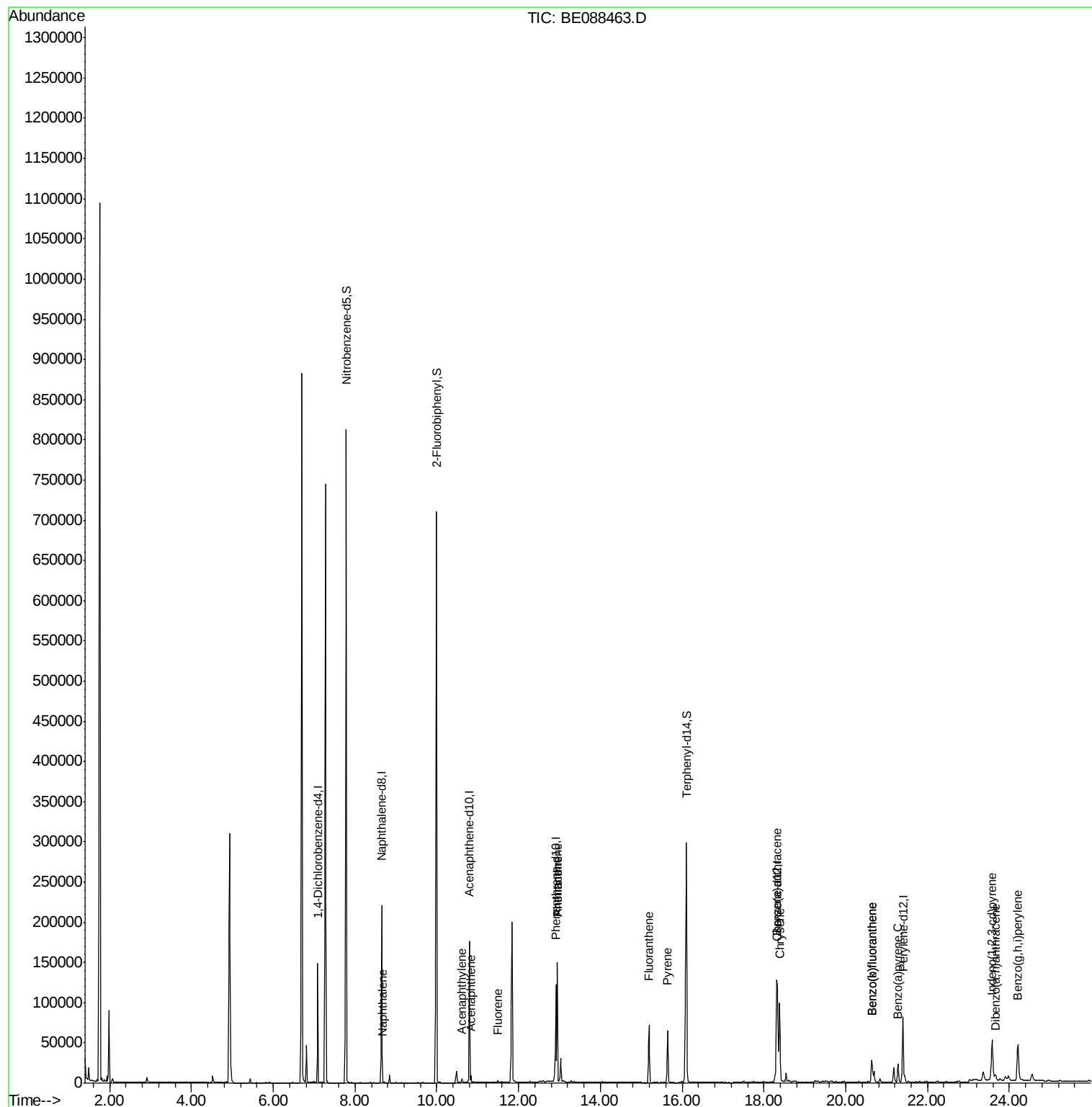
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	46341	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	173165	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	80837	5.00	ng	0.00
12) Phenanthrene-d10	12.91	188	172804	5.00	ng	0.00
16) Chrysene-d12	18.33	240	106681	5.00	ng	0.02
22) Perylene-d12	21.40	264	104911	5.00	ng	0.03
System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	588975	46.38	ng	0.02
8) 2-Fluorobiphenyl	10.00	172	660999	29.01	ng	0.01
18) Terphenyl-d14	16.11	244	550373	28.08	ng	0.04
Target Compounds						Qvalue
5) Naphthalene	8.68	128	1251	0.03	ng	# 88
9) Acenaphthylene	10.62	152	6249	0.05	ng	# 98
10) Acenaphthene	10.84	154	1868	0.10	ng	74
11) Fluorene	11.50	166	1570	0.08	ng	# 96
13) Phenanthrene	12.95	178	177053	1.13	ng	99
14) Anthracene	12.95	178	177053	1.40	ng	98
15) Fluoranthene	15.19	202	71209	2.79	ng	99
17) Pyrene	15.65	202	61982	1.78	ng	96
19) Benzo(a)anthracene	18.31	228	138396	1.38	ng	98
20) Chrysene	18.38	228	141031	1.43	ng	96
21) Indeno(1,2,3-cd)pyrene	23.58	276	88223	0.96	ng	# 87
23) Benzo(b)fluoranthene	20.64	252	49329	2.14	ng	97
24) Benzo(k)fluoranthene	20.64	252	49329	1.95	ng	97
25) Benzo(a)pyrene	21.28	252	31690	1.43	ng	98
26) Dibenzo(a,h)anthracene	23.66	278	5155	0.25	ng	# 78
27) Benzo(g,h,i)perylene	24.21	276	86324	0.92	ng	99

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

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
Data File : BE088463.D
Acq On : 1 Nov 2014 22:03
Operator : TP/JJ
Sample : F4312-12RE
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
YS19-SS28-1014RE

Quant Time: Nov 02 04:21:17 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088463.D

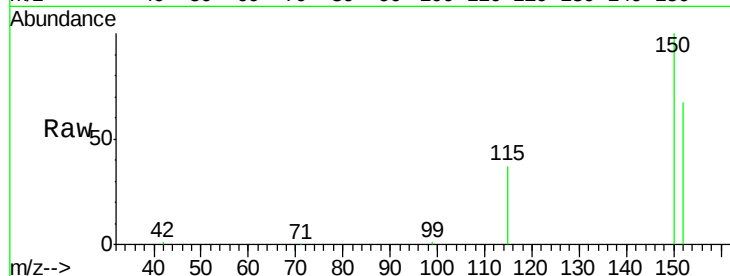
Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE



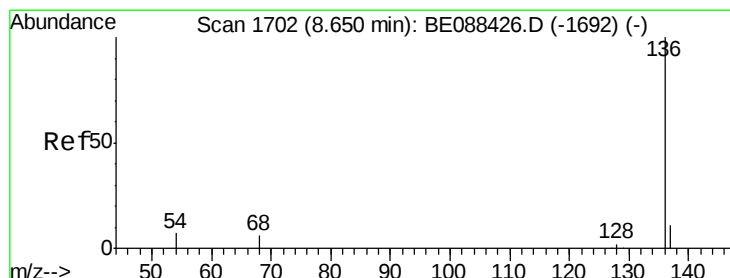
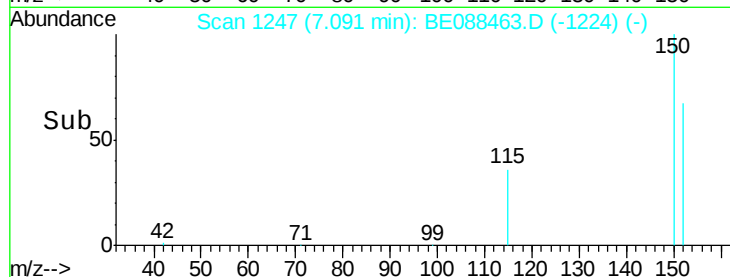
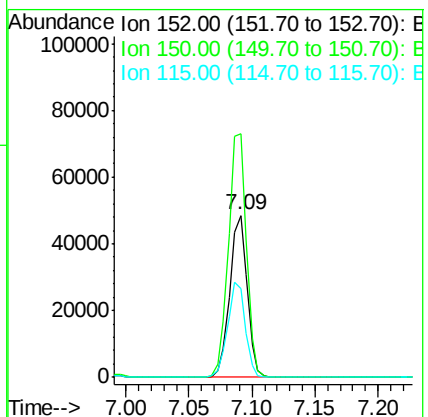
Tgt Ion:152 Resp: 46341

Ion Ratio Lower Upper

152 100

150 150.0 121.8 182.8

115 54.8 43.9 65.9



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.65 min Scan# 1702

Delta R.T. -0.00 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

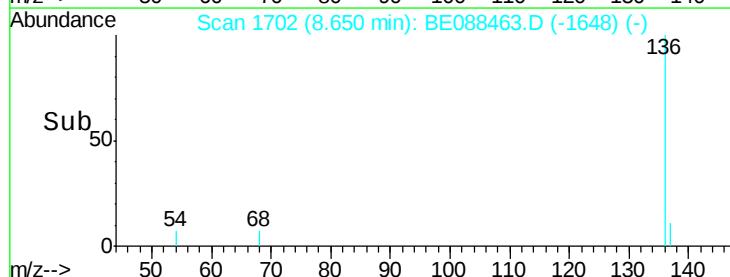
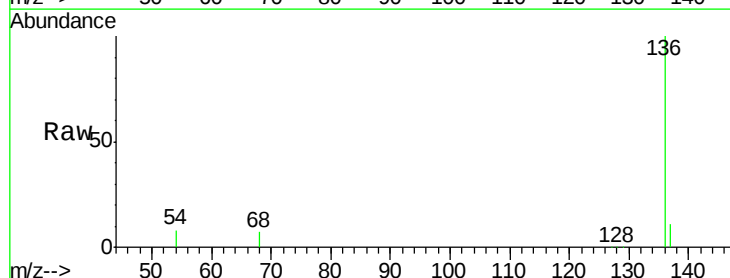
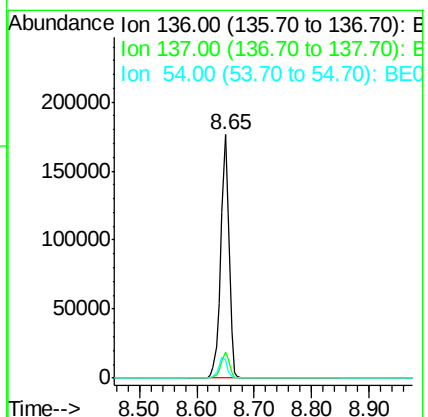
Tgt Ion:136 Resp: 173165

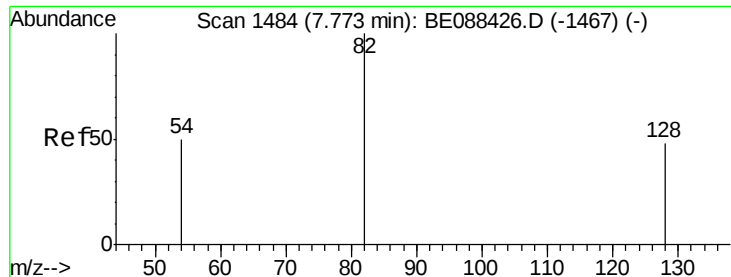
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 7.5 5.3 7.9

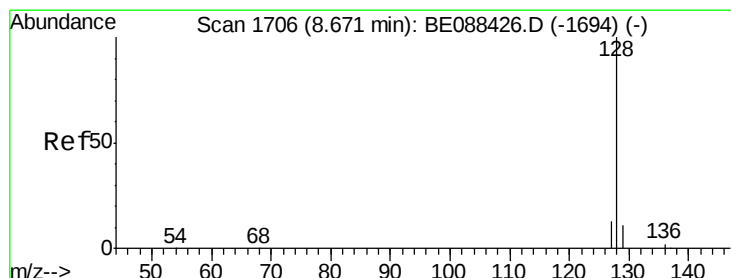
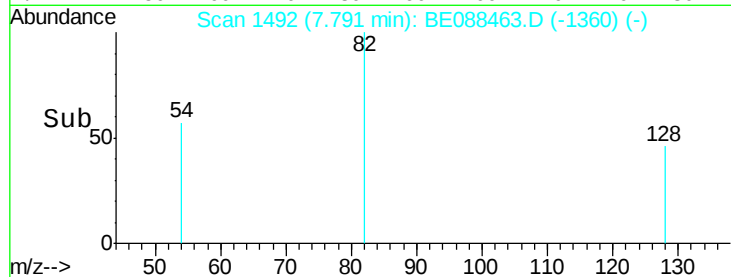
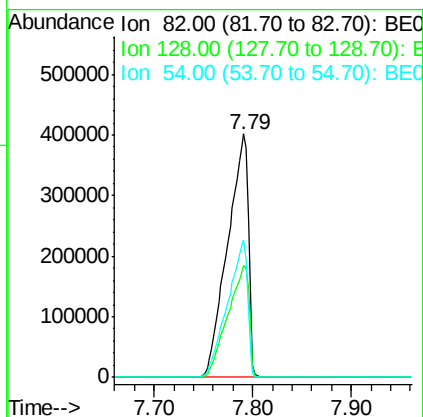
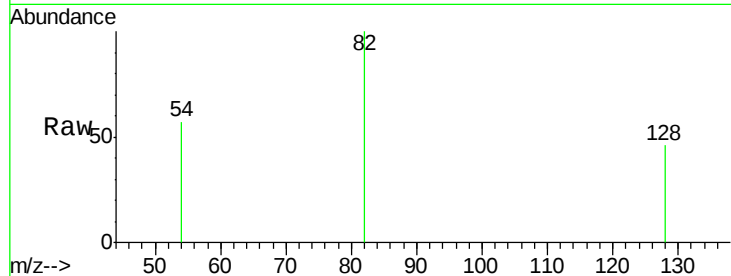




#4
 Nitrobenzene-d5
 Concen: 46.38 ng
 RT: 7.79 min Scan# 1492
 Delta R.T. 0.02 min
 Lab File: BE088463.D
 Acq: 1 Nov 2014 22:03

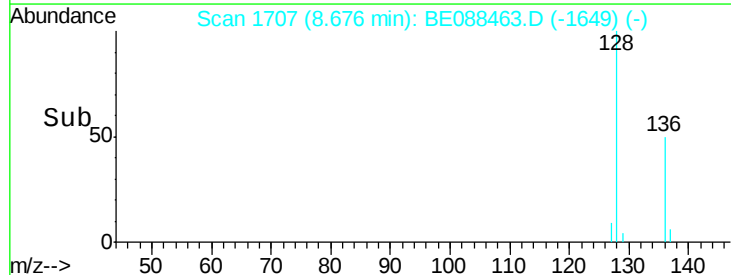
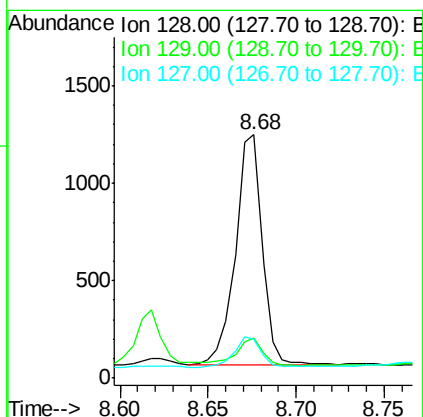
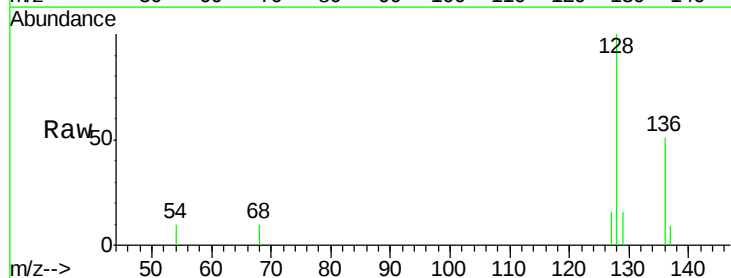
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS28-1014RE

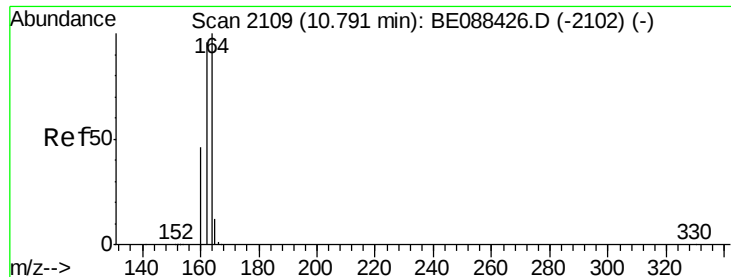
Tgt Ion: 82 Resp: 588975
 Ion Ratio Lower Upper
 82 100
 128 45.9 38.4 57.6
 54 56.5 40.2 60.2



#5
 Naphthalene
 Concen: 0.03 ng
 RT: 8.68 min Scan# 1707
 Delta R.T. 0.01 min
 Lab File: BE088463.D
 Acq: 1 Nov 2014 22:03

Tgt Ion: 128 Resp: 1251
 Ion Ratio Lower Upper
 128 100
 129 16.5 8.6 12.8#
 127 16.2 10.1 15.1#





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

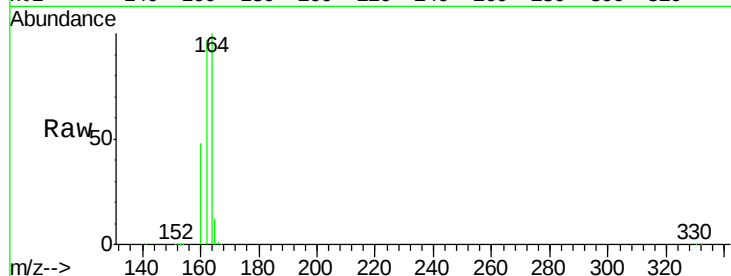
BNA_E

ClientSampleId :

YS19-SS28-1014RE

Tgt Ion:164 Resp: 80837

Ion	Ratio	Lower	Upper
164	100		
162	97.4	77.0	115.4
160	47.6	36.8	55.2

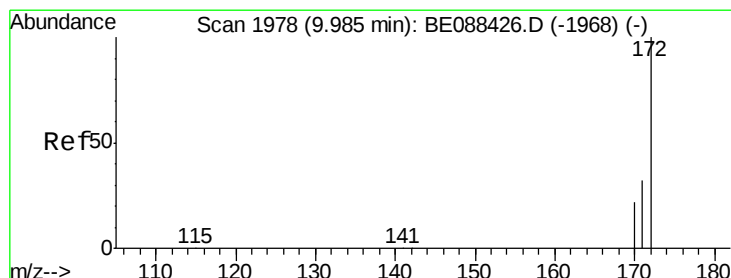
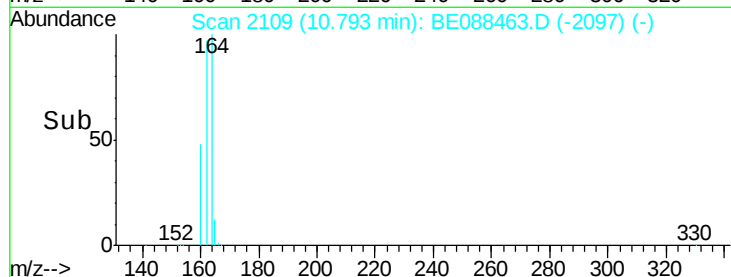
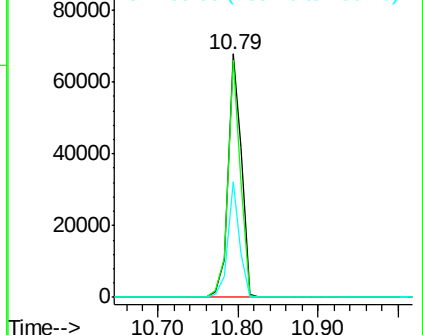


Abundance

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: 29.01 ng

RT: 10.00 min Scan# 1981

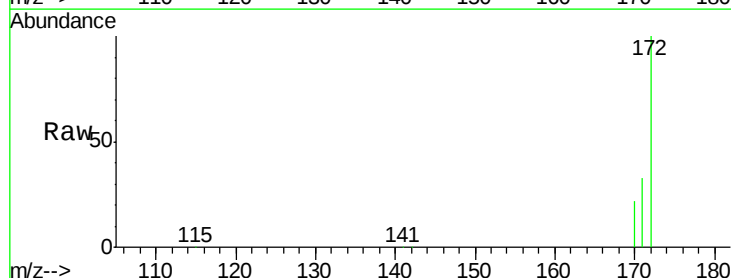
Delta R.T. 0.01 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Tgt Ion:172 Resp: 660999

Ion	Ratio	Lower	Upper
172	100		
171	33.1	26.0	39.0
170	22.3	17.6	26.4

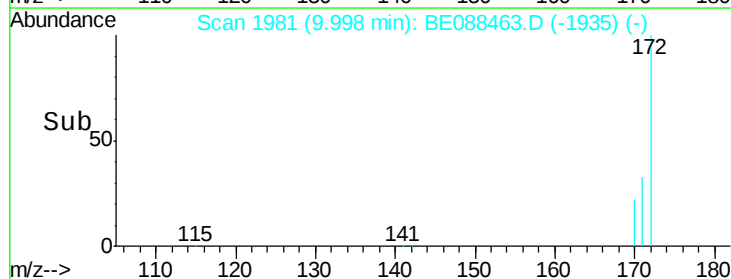
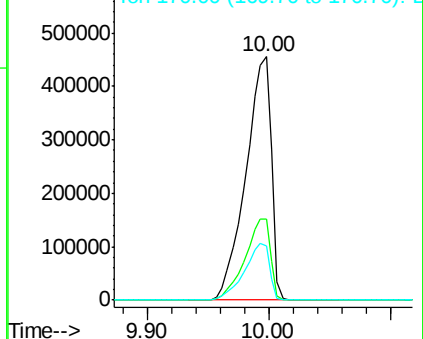


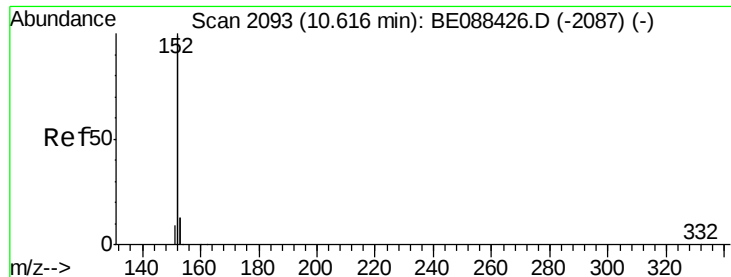
Abundance

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: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE

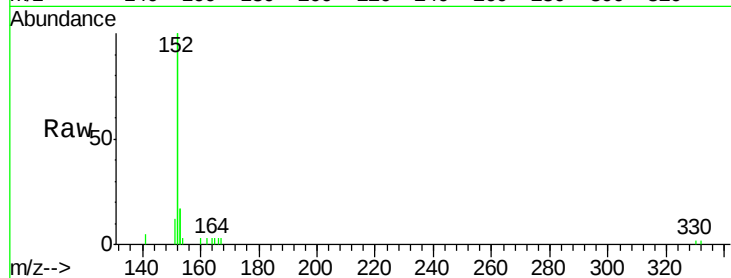
Tgt Ion:152 Resp: 6249

Ion Ratio Lower Upper

152 100

151 3.6 4.4 6.6#

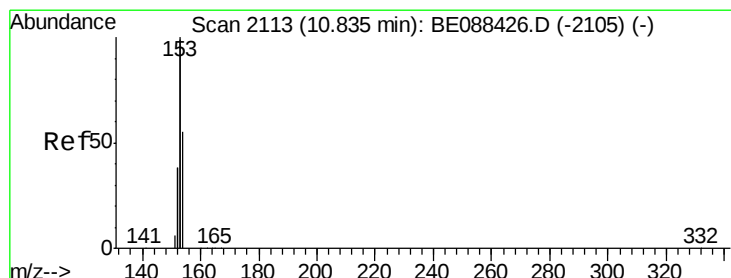
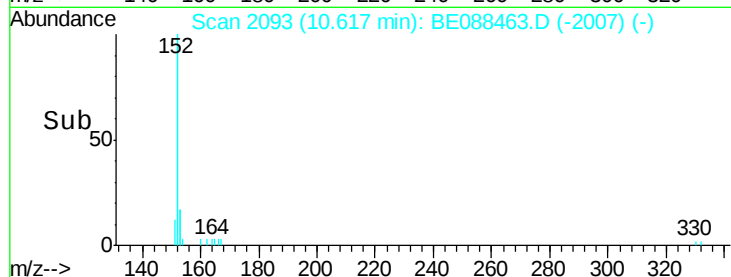
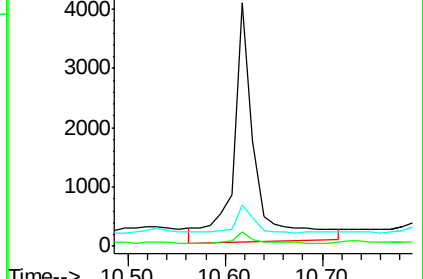
153 13.4 10.5 15.7



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: 0.10 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

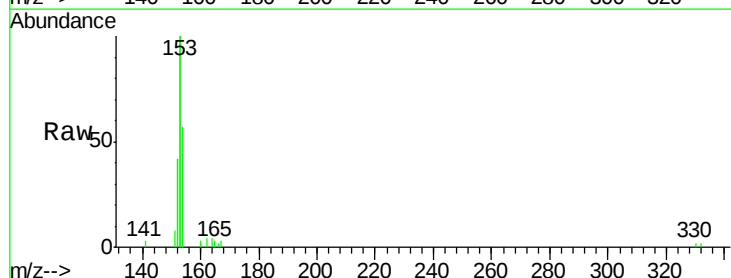
Tgt Ion:154 Resp: 1868

Ion Ratio Lower Upper

154 100

153 337.8 324.3 486.5

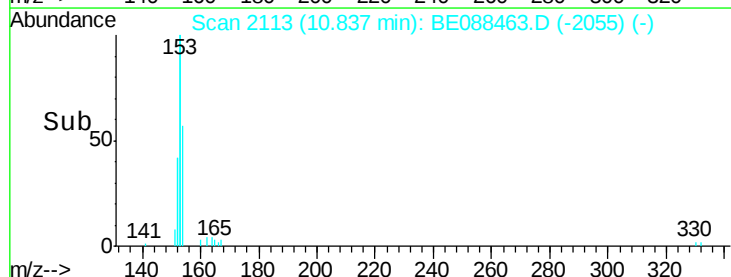
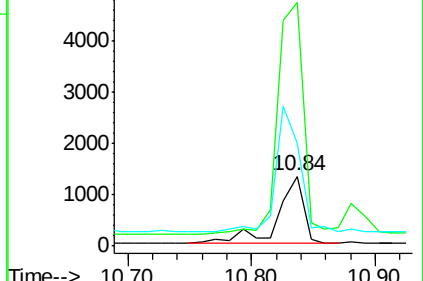
152 224.6 154.9 232.3

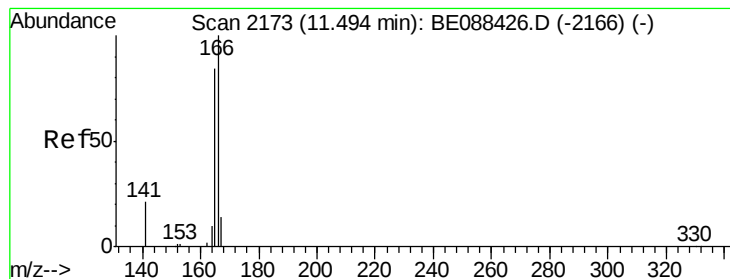


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.08 ng

RT: 11.50 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE

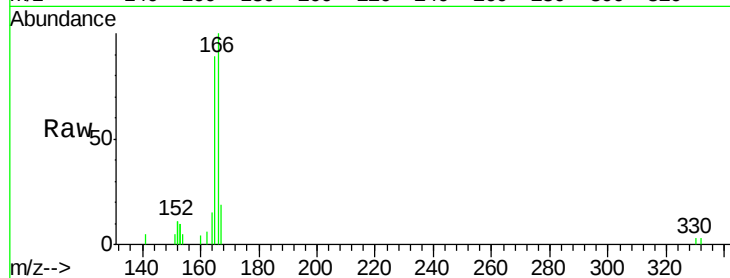
Tgt Ion:166 Resp: 1570

Ion Ratio Lower Upper

166 100

165 91.5 71.3 106.9

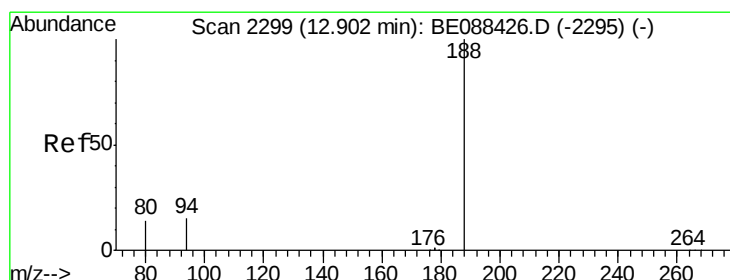
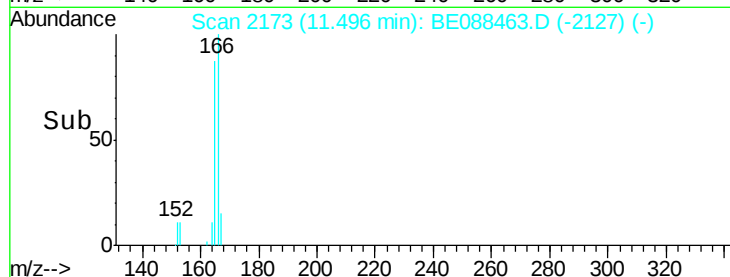
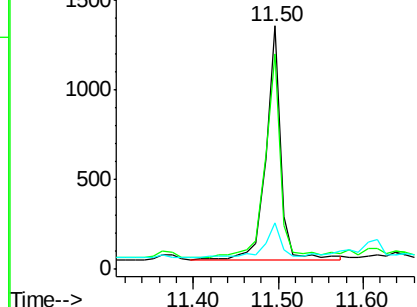
167 18.3 10.7 16.1#



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: 12.91 min Scan# 2300

Delta R.T. 0.01 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

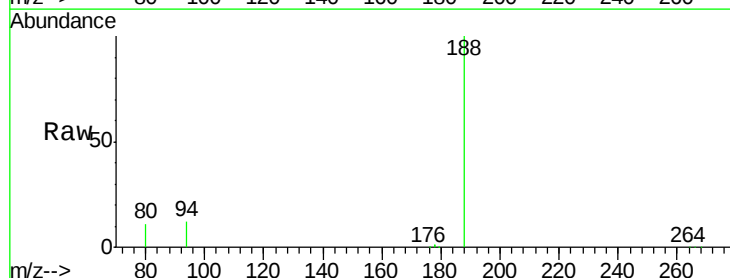
Tgt Ion:188 Resp: 172804

Ion Ratio Lower Upper

188 100

94 12.1 11.8 17.8

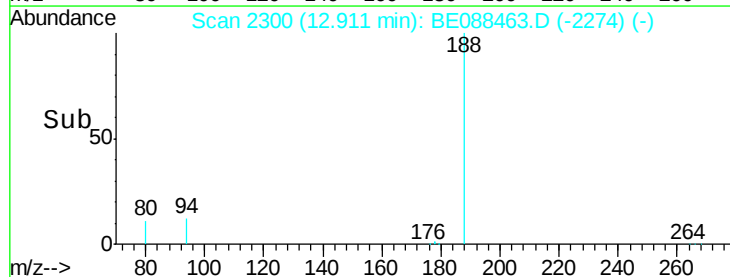
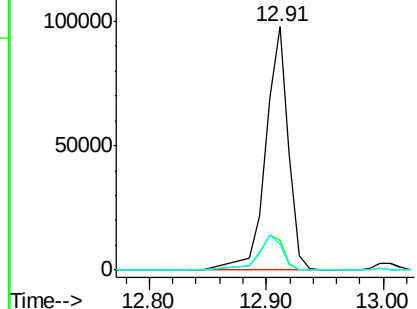
80 10.8 10.9 16.3#

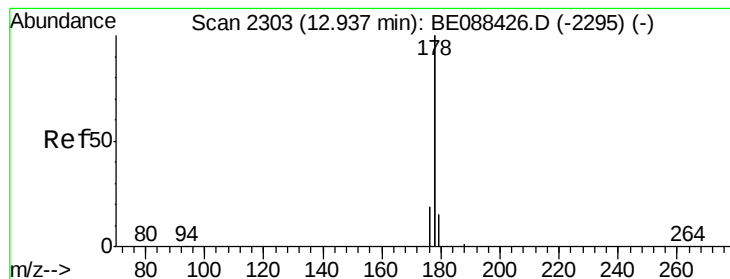


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 1.13 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.01 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE

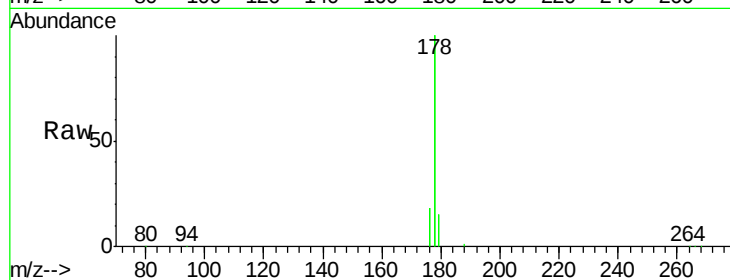
Tgt Ion:178 Resp: 177053

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

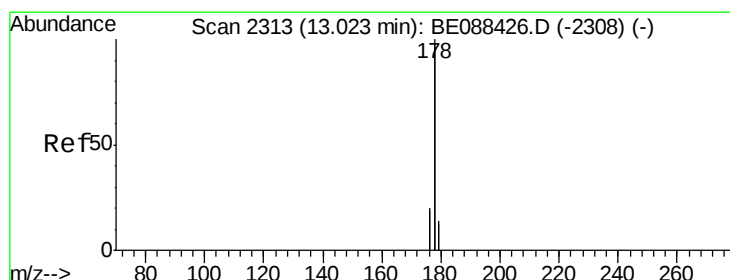
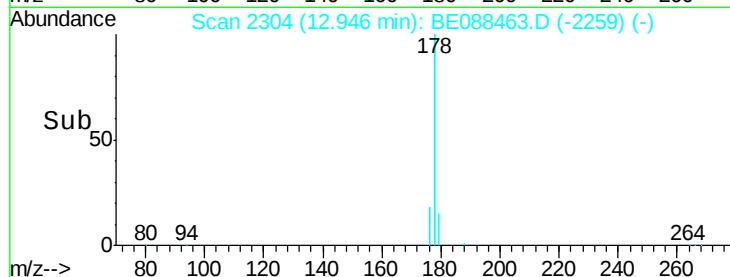
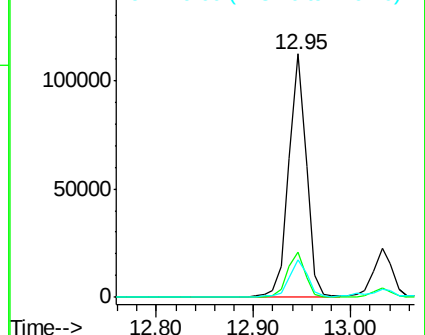
179 17.1 12.8 19.2



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: 1.40 ng

RT: 12.95 min Scan# 2304

Delta R.T. -0.08 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

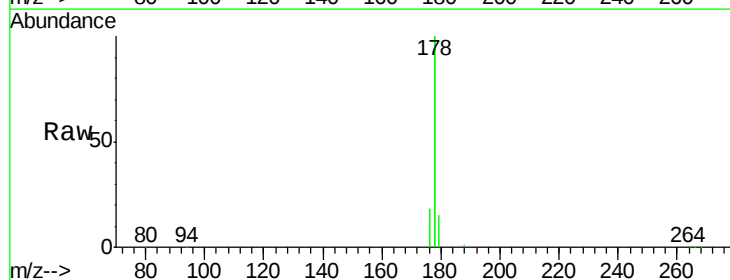
Tgt Ion:178 Resp: 177053

Ion Ratio Lower Upper

178 100

176 19.3 15.0 22.4

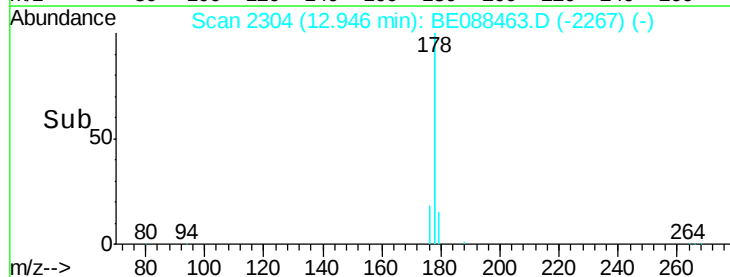
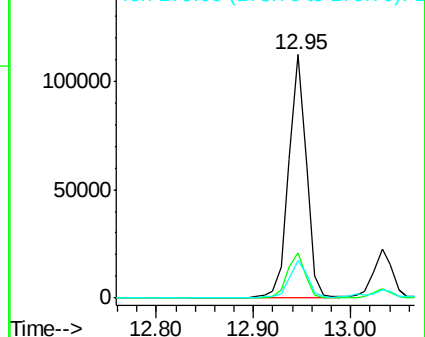
179 17.1 12.5 18.7

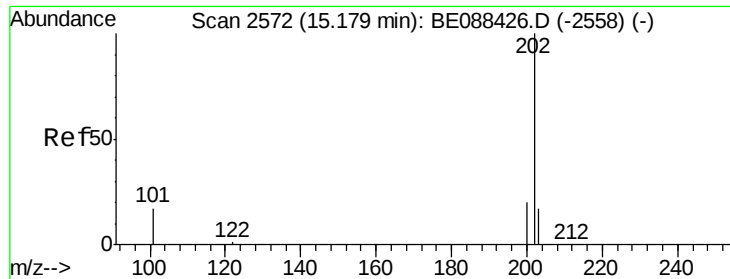


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

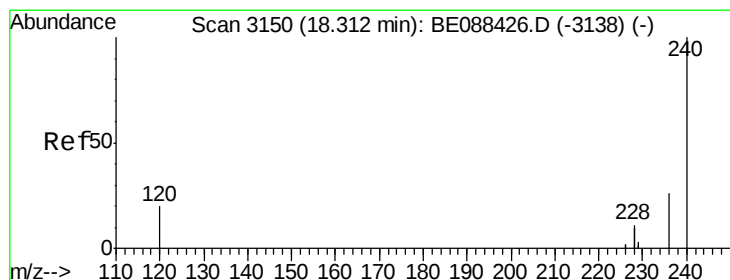
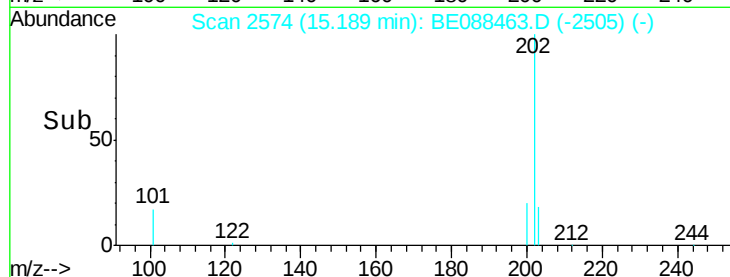
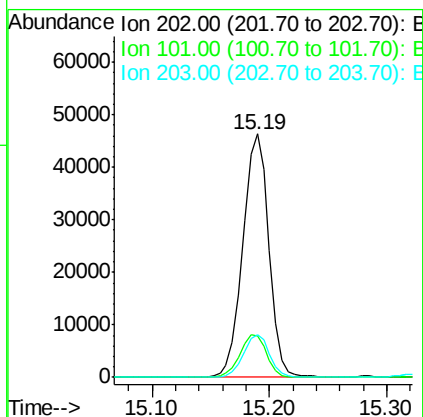
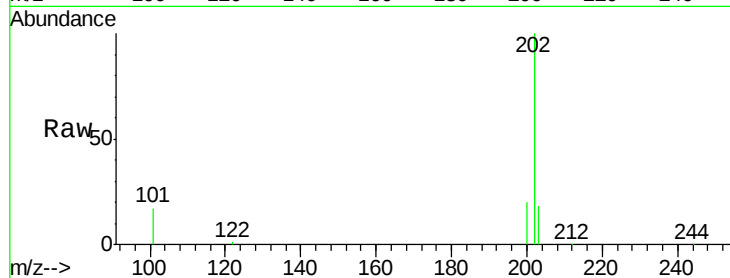




#15
 Fluoranthene
 Concen: 2.79 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088463.D
 Acq: 1 Nov 2014 22:03

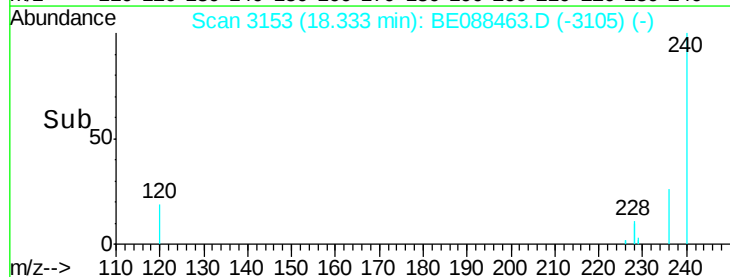
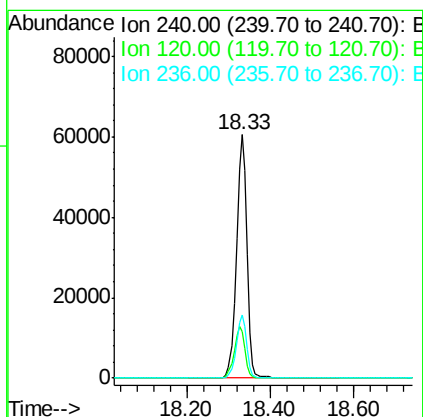
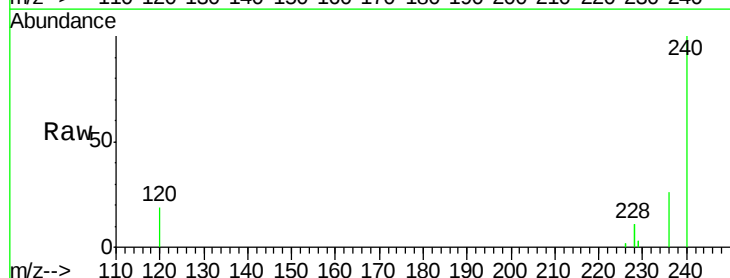
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS28-1014RE

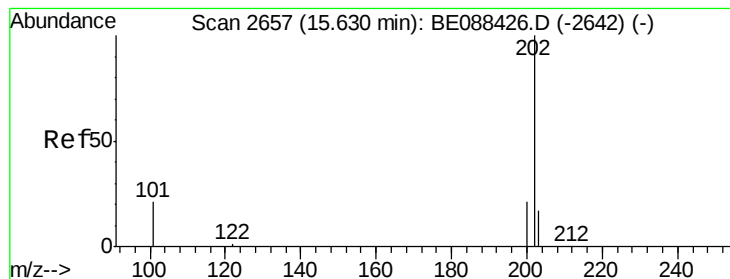
Tgt Ion: 202 Resp: 71209
 Ion Ratio Lower Upper
 202 100
 101 17.6 14.3 21.5
 203 17.2 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3153
 Delta R.T. 0.02 min
 Lab File: BE088463.D
 Acq: 1 Nov 2014 22:03

Tgt Ion: 240 Resp: 106681
 Ion Ratio Lower Upper
 240 100
 120 18.9 16.4 24.6
 236 25.8 20.5 30.7





#17

Pyrene

Concen: 1.78 ng

RT: 15.65 min Scan# 2660

Delta R.T. 0.02 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE

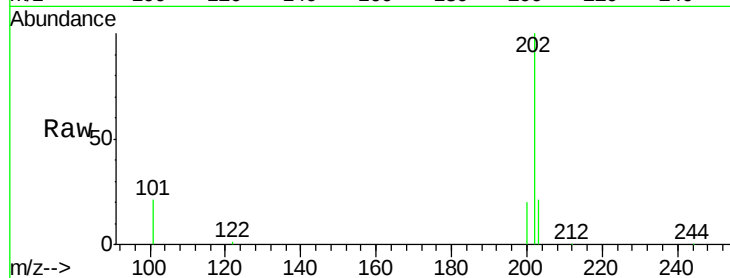
Tgt Ion:202 Resp: 61982

Ion Ratio Lower Upper

202 100

200 20.3 16.1 24.1

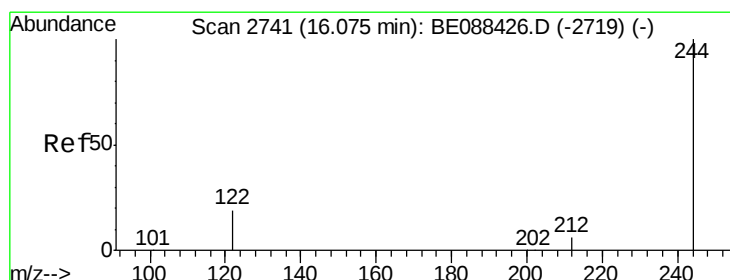
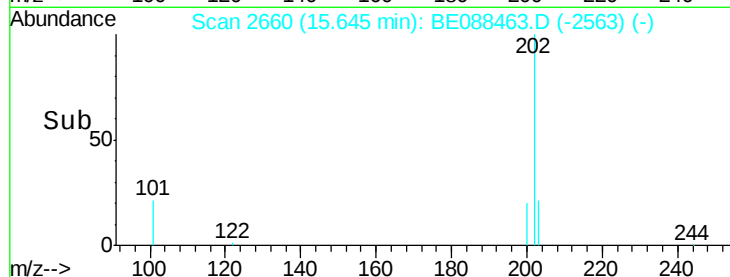
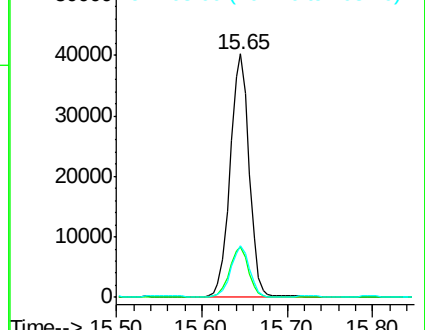
203 20.6 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 28.08 ng

RT: 16.11 min Scan# 2748

Delta R.T. 0.04 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

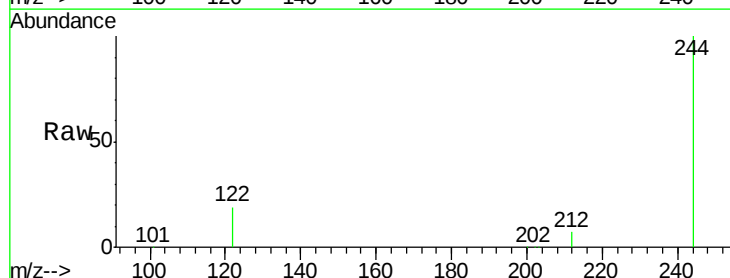
Tgt Ion:244 Resp: 550373

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

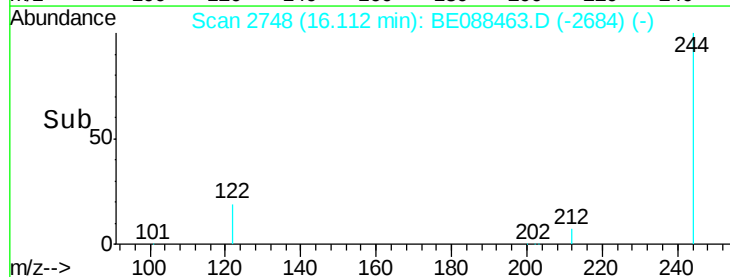
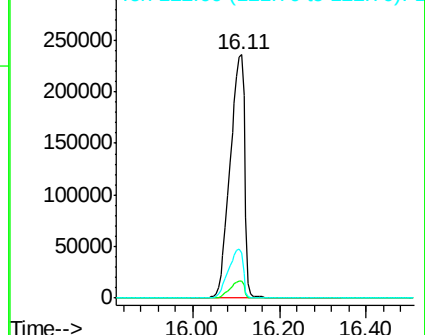
122 18.6 15.6 23.4

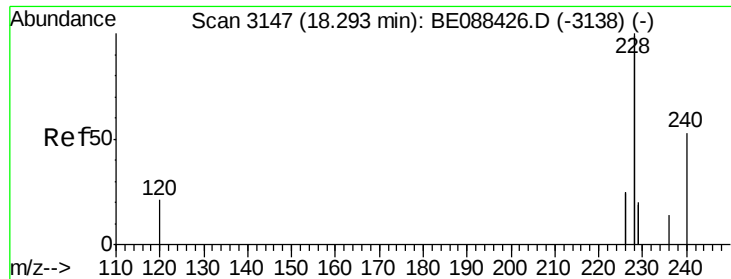


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 1.38 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE

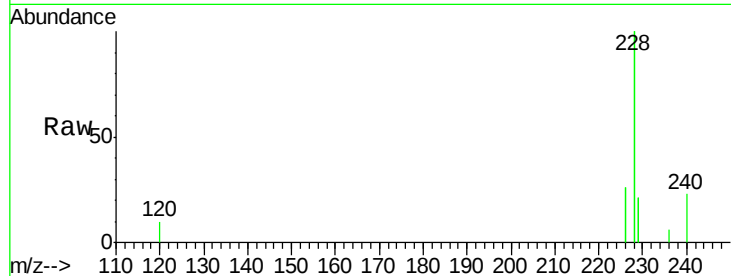
Tgt Ion:228 Resp: 138396

Ion Ratio Lower Upper

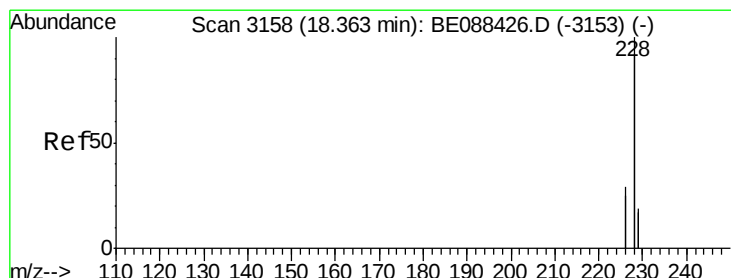
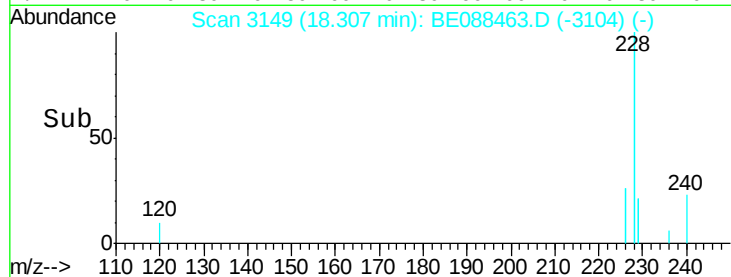
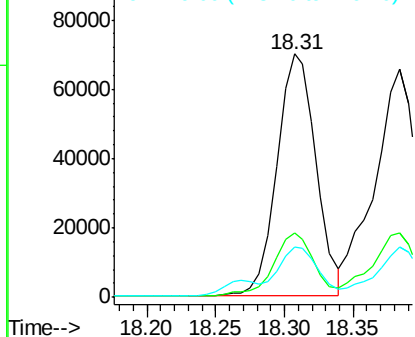
228 100

226 26.2 19.8 29.6

229 20.7 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: 1.43 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

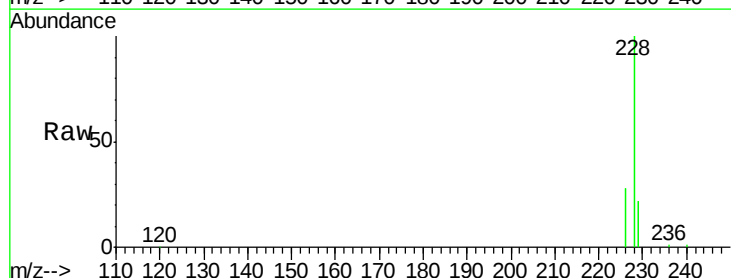
Tgt Ion:228 Resp: 141031

Ion Ratio Lower Upper

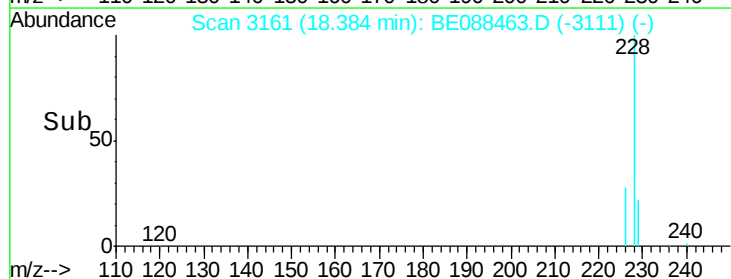
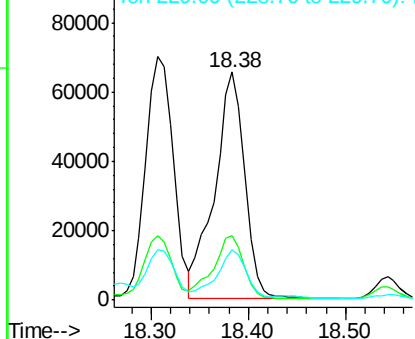
228 100

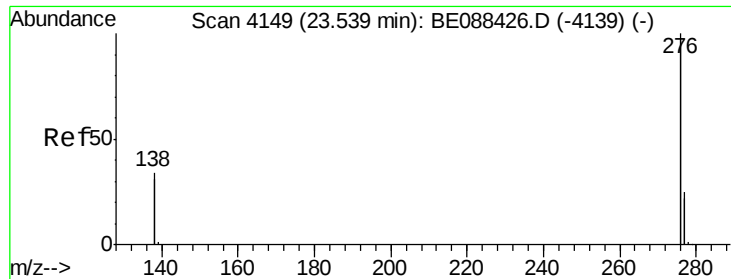
226 28.5 23.6 35.4

229 22.1 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: 0.96 ng

RT: 23.58 min Scan# 4155

Delta R.T. 0.04 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE

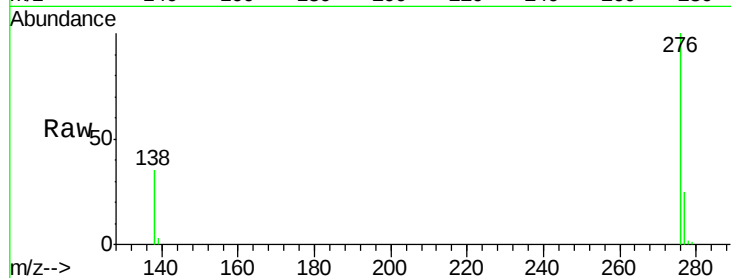
Tgt Ion:276 Resp: 88223

Ion Ratio Lower Upper

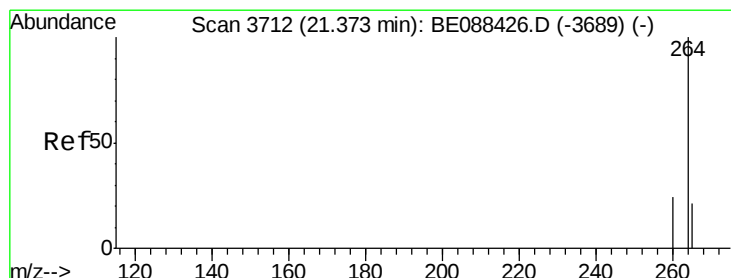
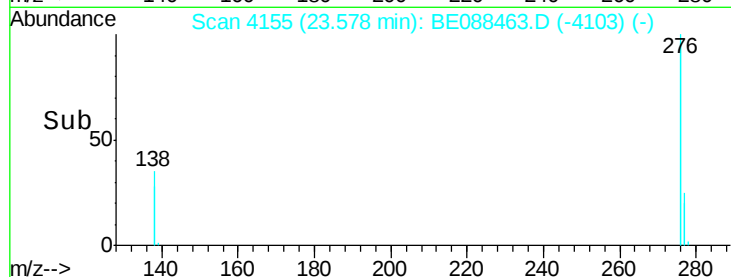
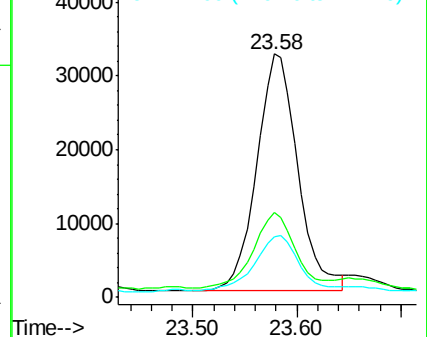
276 100

138 31.8 20.2 30.2#

277 24.3 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: 21.40 min Scan# 3718

Delta R.T. 0.03 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

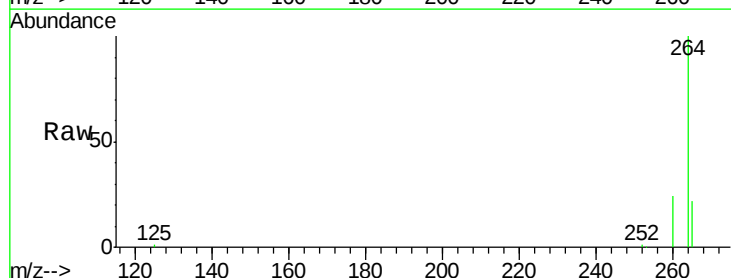
Tgt Ion:264 Resp: 104911

Ion Ratio Lower Upper

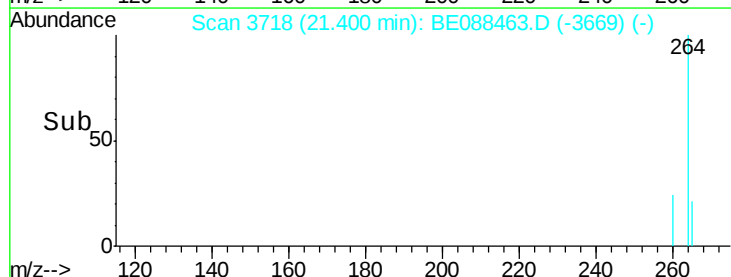
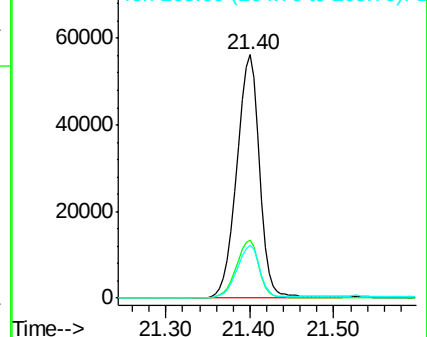
264 100

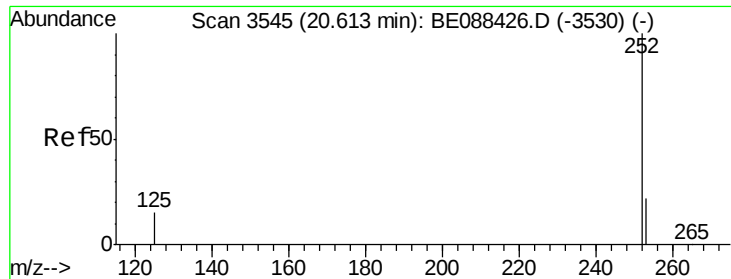
260 24.0 18.9 28.3

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: 2.14 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.02 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE

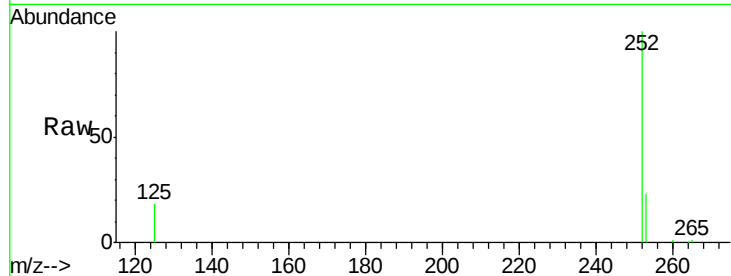
Tgt Ion:252 Resp: 49329

Ion Ratio Lower Upper

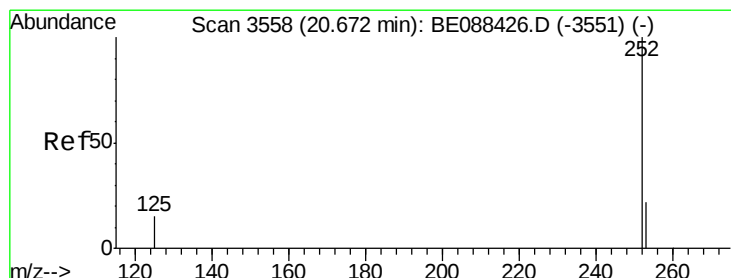
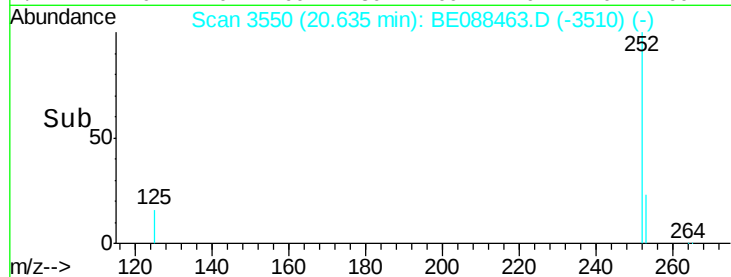
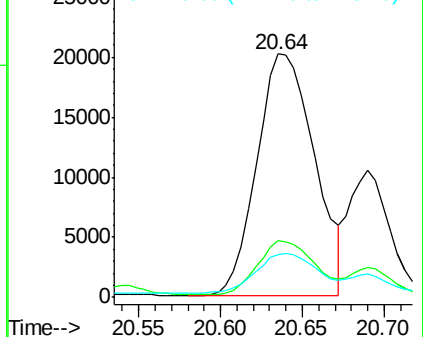
252 100

253 23.1 17.8 26.8

125 17.5 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: 1.95 ng

RT: 20.64 min Scan# 3550

Delta R.T. -0.04 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

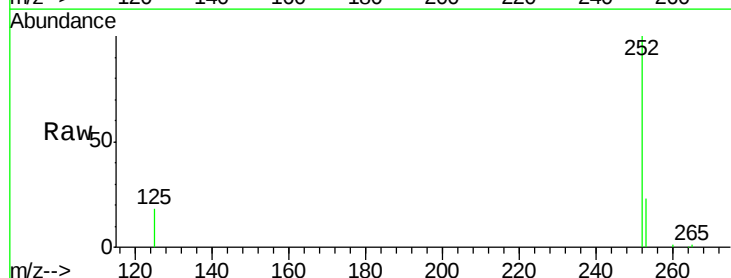
Tgt Ion:252 Resp: 49329

Ion Ratio Lower Upper

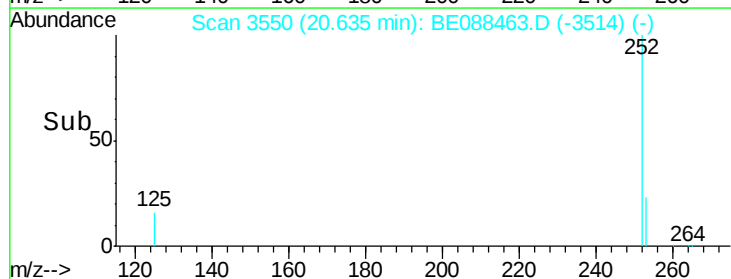
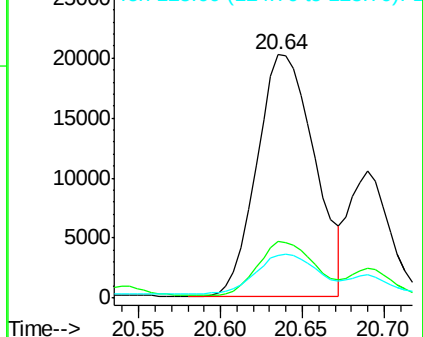
252 100

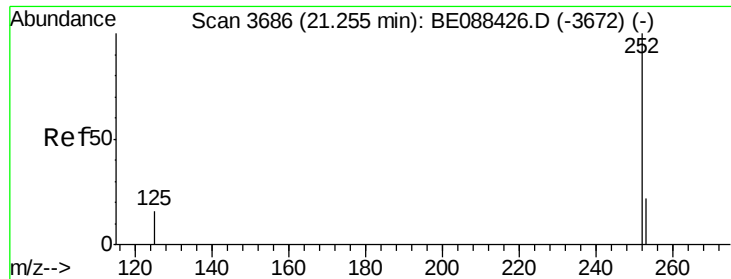
253 23.1 17.8 26.8

125 17.5 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: 1.43 ng

RT: 21.28 min Scan# 3691

Delta R.T. 0.02 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE

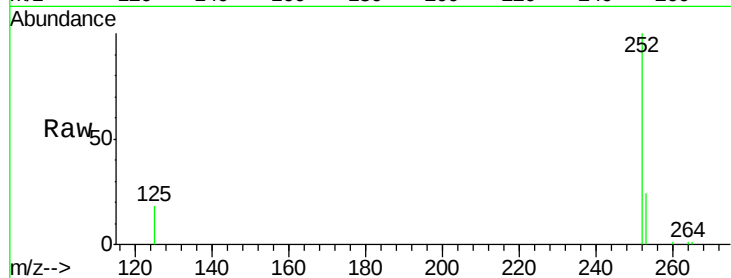
Tgt Ion: 252 Resp: 31690

Ion Ratio Lower Upper

252 100

253 23.8 18.2 27.4

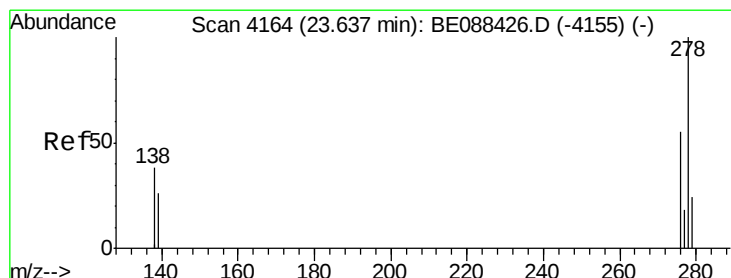
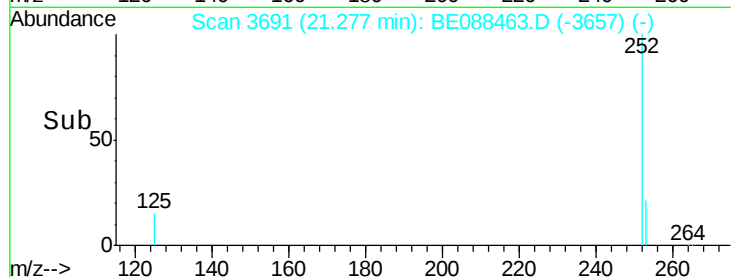
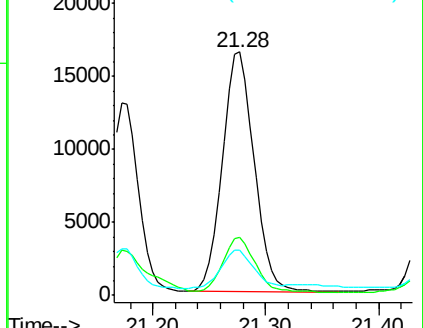
125 18.4 13.7 20.5



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: 0.25 ng

RT: 23.66 min Scan# 4168

Delta R.T. 0.03 min

Lab File: BE088463.D

Acq: 1 Nov 2014 22:03

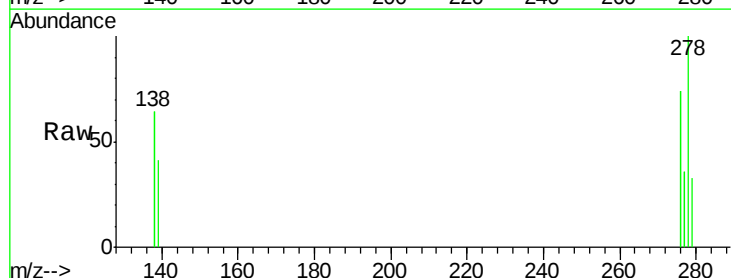
Tgt Ion: 278 Resp: 5155

Ion Ratio Lower Upper

278 100

139 41.2 22.1 33.1#

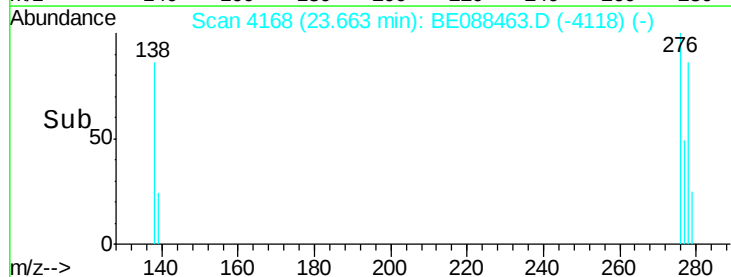
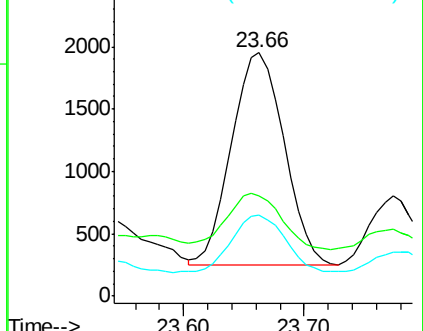
279 33.5 19.7 29.5#

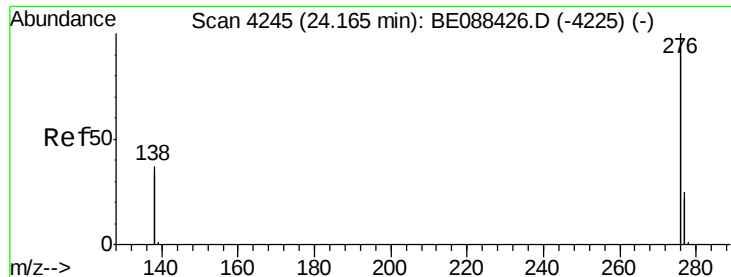


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.92 ng

RT: 24.21 min Scan# 4252

Delta R.T. 0.05 min

Lab File: BE088463.D

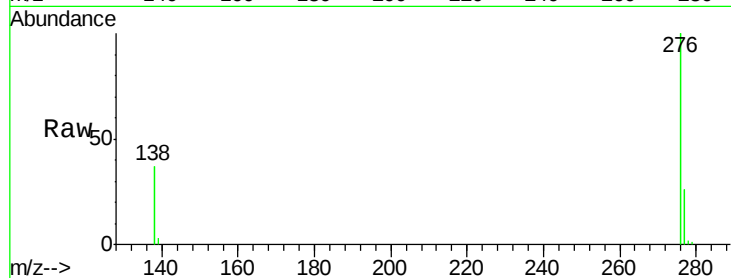
Acq: 1 Nov 2014 22:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS28-1014RE



Tgt Ion: 276 Resp: 86324

Ion Ratio Lower Upper

276 100

277 25.6 19.8 29.6

138 36.8 29.3 43.9

