

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088444.D
 Acq On : 1 Nov 2014 4:12
 Operator : TP/JJ
 Sample : F4379-07
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS29-1014

Quant Time: Nov 01 05:30:42 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	39221	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	133069	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	53638	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	92595	5.00	ng	0.00
16) Chrysene-d12	18.31	240	48411	5.00	ng	0.00
22) Perylene-d12	21.37	264	43930	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	878797	90.05	ng	0.02
8) 2-Fluorobiphenyl	10.00	172	900354	59.55	ng	0.01
18) Terphenyl-d14	16.10	244	534158	60.06	ng	0.03

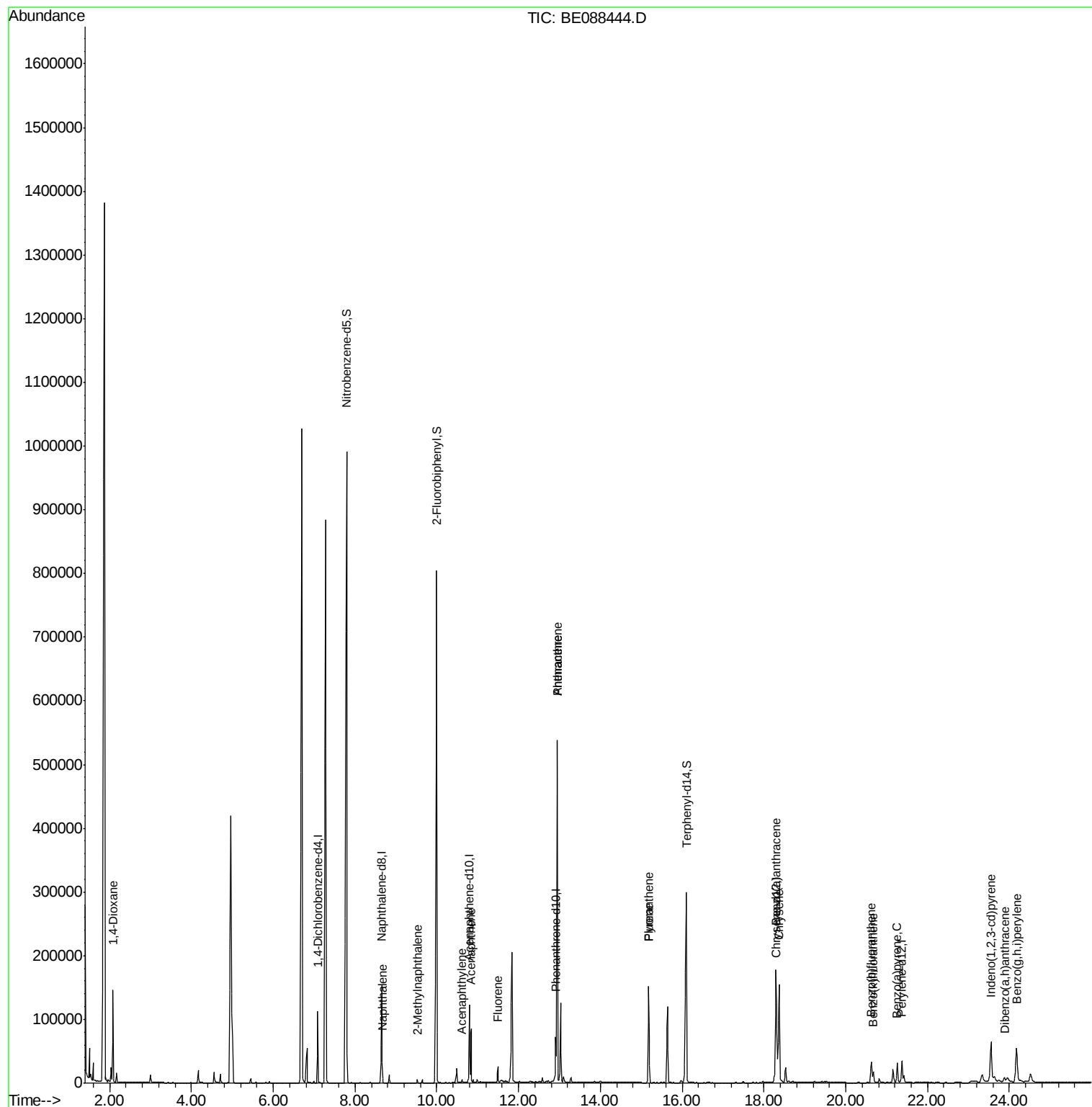
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.08	88	4781	0.93	ng	# 1
5) Naphthalene	8.68	128	11148	0.40	ng	98
6) 2-Methylnaphthalene	9.53	142	2727	0.16	ng	99
9) Acenaphthylene	10.62	152	5628	0.06	ng	# 75
10) Acenaphthene	10.84	154	16537	1.28	ng	98
11) Fluorene	11.50	166	13875	1.02	ng	99
13) Phenanthrene	12.95	178	737351	8.76	ng	99
14) Anthracene	12.95	178	737351	10.85	ng	100
15) Fluoranthene	15.18	202	144663	10.59	ng	99
17) Pyrene	15.18	202	143473	9.09	ng	100
19) Benzo(a)anthracene	18.29	228	216463	4.75	ng	98
20) Chrysene	18.37	228	201833	4.51	ng	96
21) Indeno(1,2,3-cd)pyrene	23.55	276	115037	2.76	ng	# 88
23) Benzo(b)fluoranthene	20.62	252	57910	6.01	ng	98
24) Benzo(k)fluoranthene	20.67	252	23620	2.23	ng	97
25) Benzo(a)pyrene	21.26	252	41339	4.47	ng	99
26) Dibenzo(a,h)anthracene	23.88	278	4807	0.56	ng	90
27) Benzo(g,h,i)perylene	24.18	276	106068	2.69	ng	99

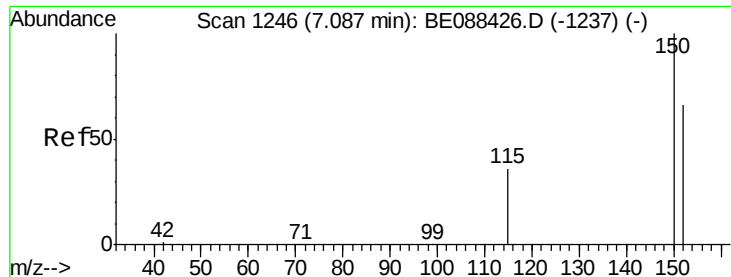
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

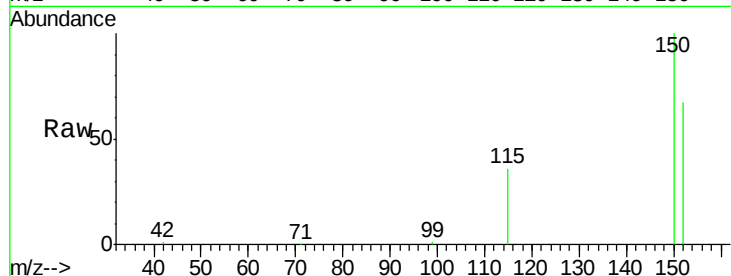
Tgt Ion:152 Resp: 39221

Ion Ratio Lower Upper

152 100

150 150.4 121.8 182.8

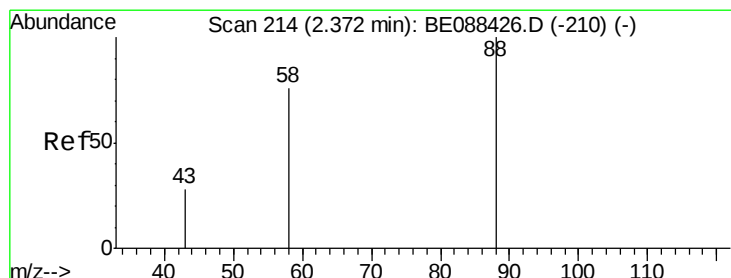
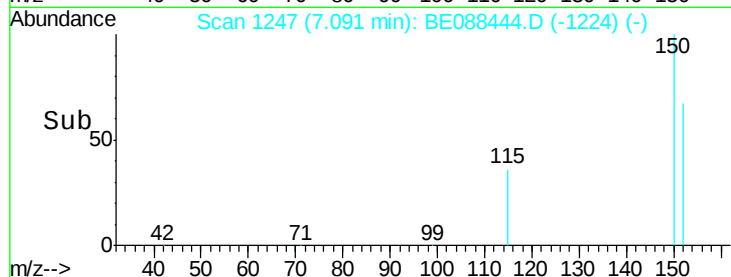
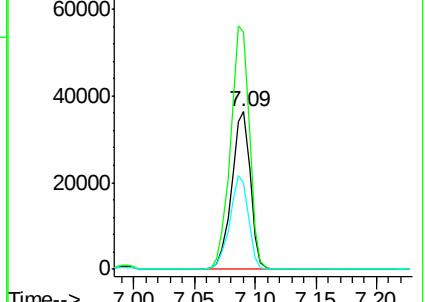
115 54.5 43.9 65.9



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: 0.93 ng

RT: 2.08 min Scan# 151

Delta R.T. -0.29 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

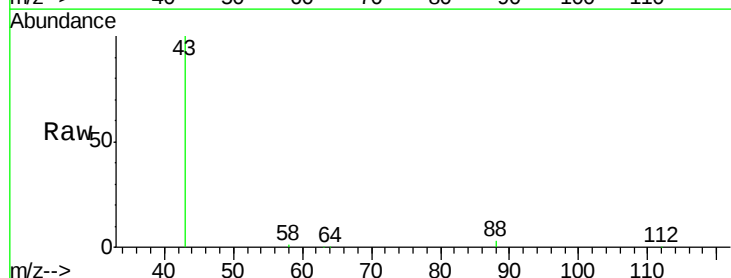
Tgt Ion: 88 Resp: 4781

Ion Ratio Lower Upper

88 100

58 25.2 59.1 88.7#

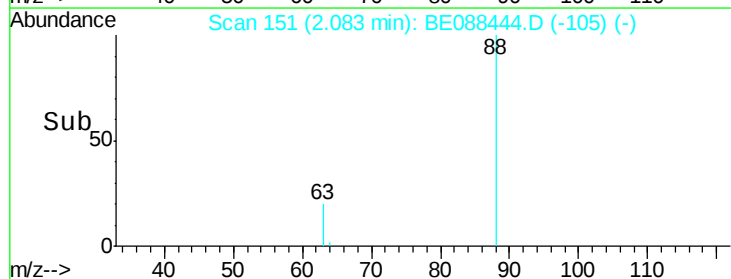
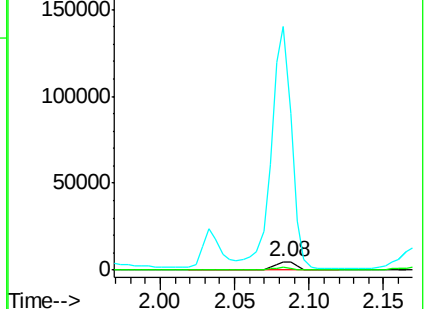
43 2762.1 21.9 32.9#

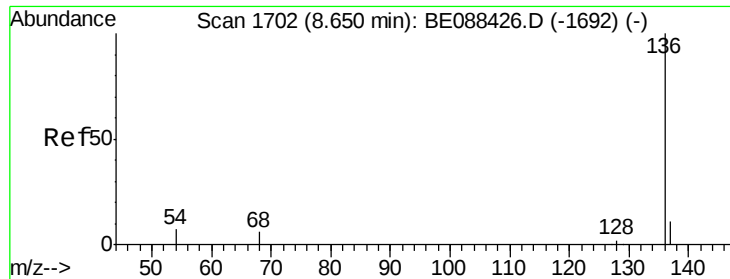


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

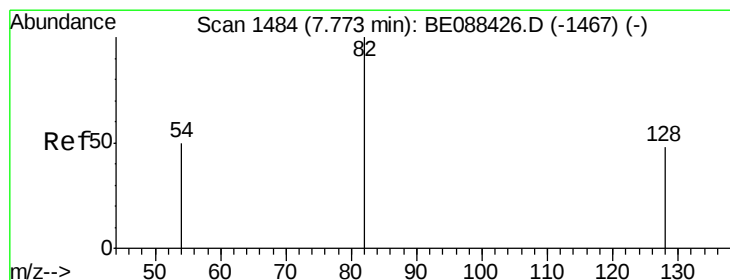
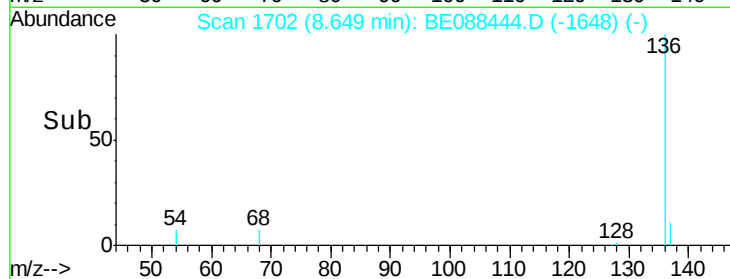
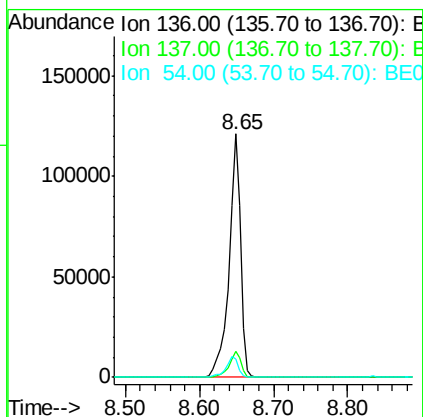
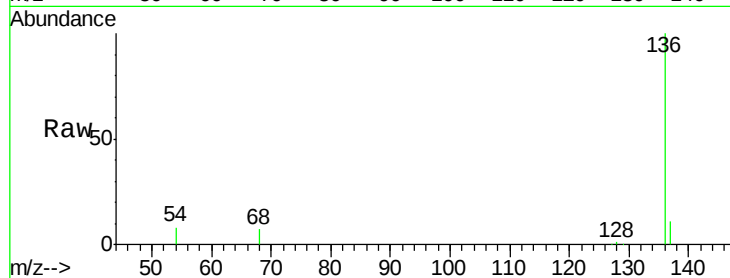




#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. -0.00 min
Lab File: BE088444.D
Acq: 1 Nov 2014 4:12

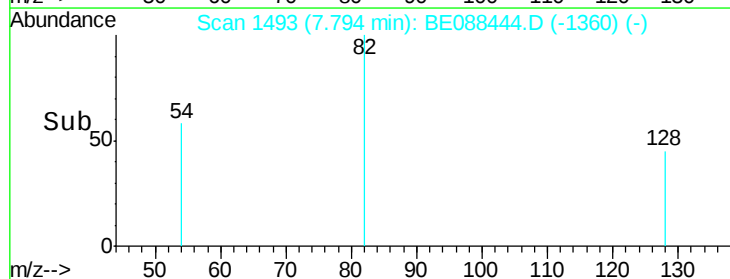
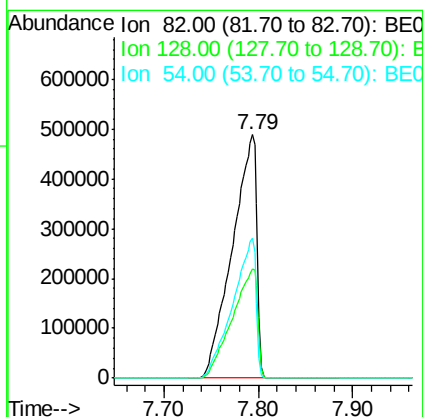
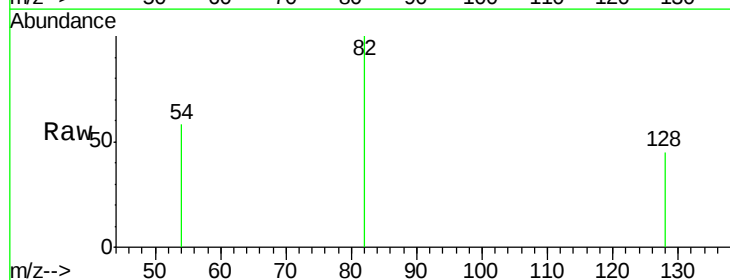
Instrument :
BNA_E
ClientSampleId :
YS19-SS29-1014

Tgt Ion: 136 Resp: 133069
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.5 5.3 7.9



#4
Nitrobenzene-d5
Concen: 90.05 ng
RT: 7.79 min Scan# 1493
Delta R.T. 0.02 min
Lab File: BE088444.D
Acq: 1 Nov 2014 4:12

Tgt Ion: 82 Resp: 878797
Ion Ratio Lower Upper
82 100
128 45.0 38.4 57.6
54 57.7 40.2 60.2





#5

Naphthalene

Concen: 0.40 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

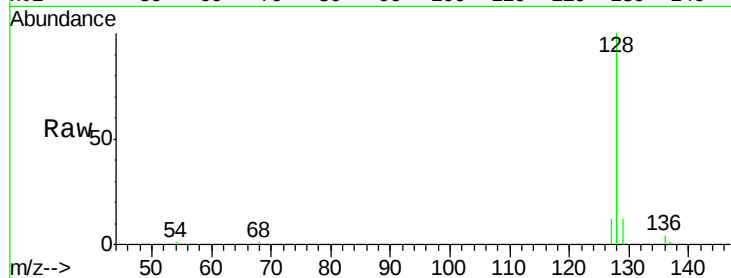
Tgt Ion:128 Resp: 11148

Ion Ratio Lower Upper

128 100

129 11.7 8.6 12.8

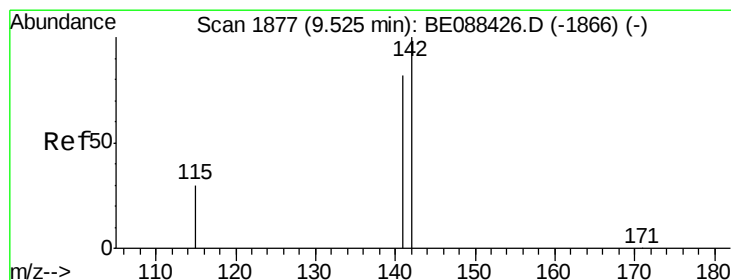
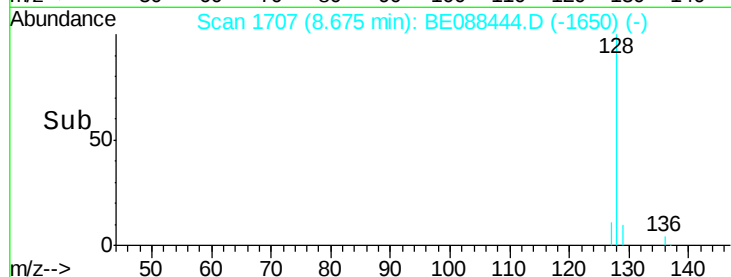
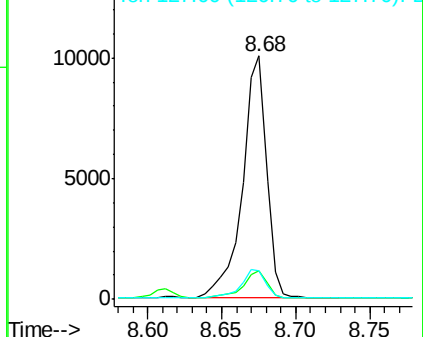
127 12.0 10.1 15.1



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: 0.16 ng

RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

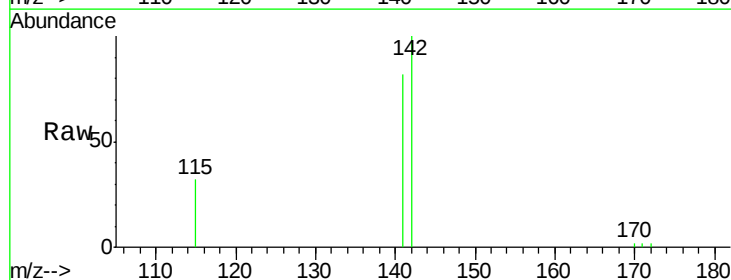
Tgt Ion:142 Resp: 2727

Ion Ratio Lower Upper

142 100

141 82.5 65.8 98.8

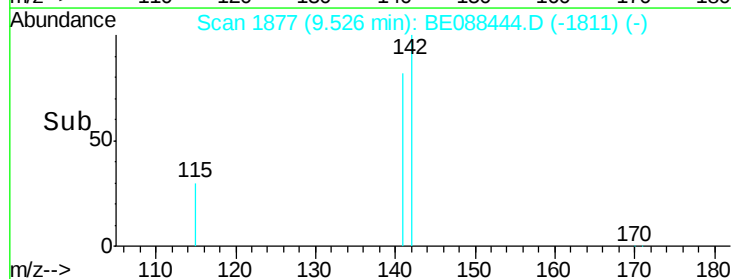
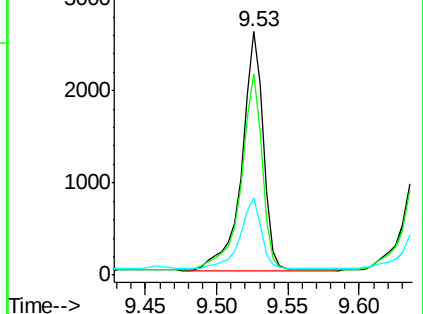
115 31.7 24.2 36.4



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# 2109

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

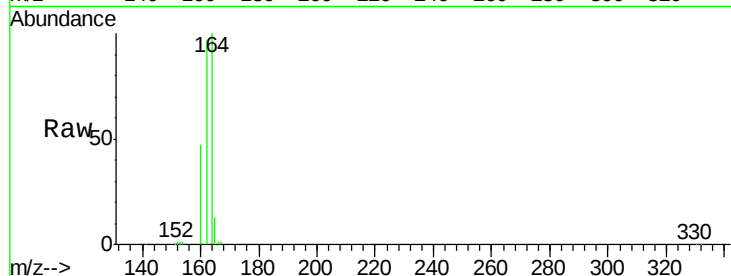
Tgt Ion:164 Resp: 53638

Ion Ratio Lower Upper

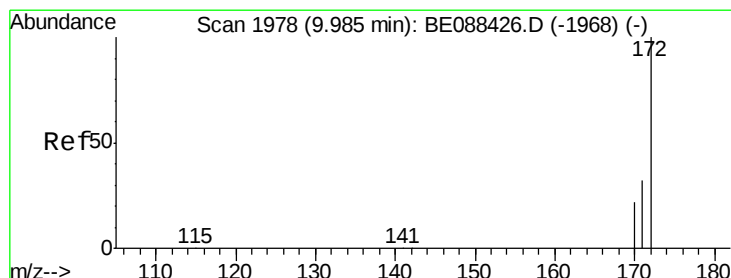
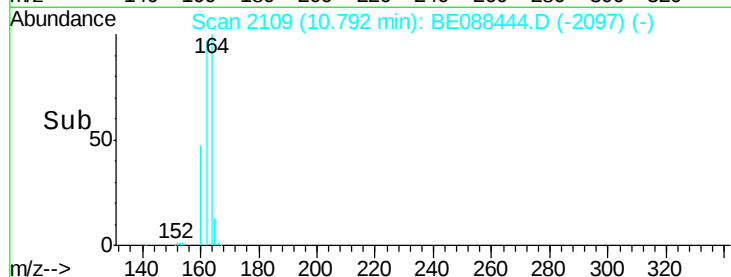
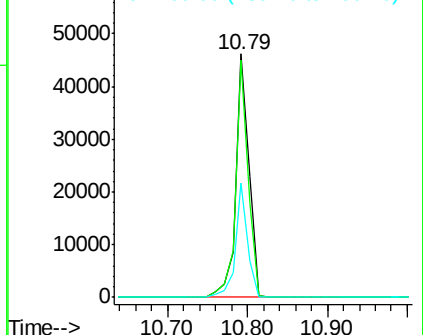
164 100

162 97.4 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: 59.55 ng

RT: 10.00 min Scan# 1981

Delta R.T. 0.01 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

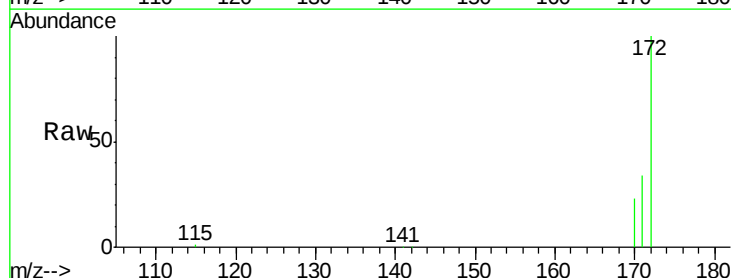
Tgt Ion:172 Resp: 900354

Ion Ratio Lower Upper

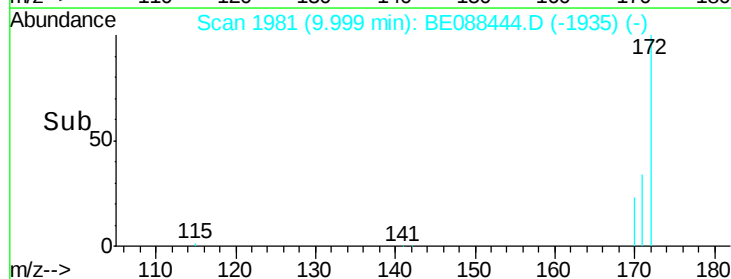
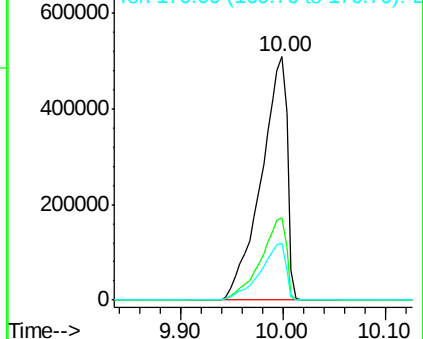
172 100

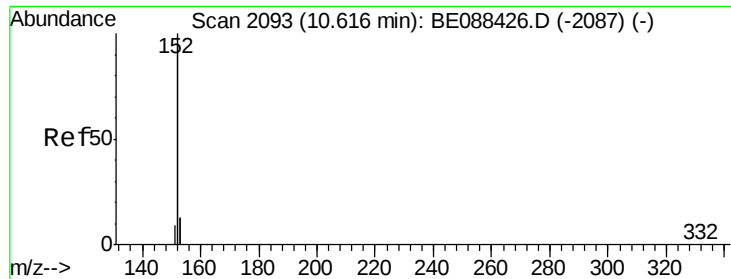
171 33.9 26.0 39.0

170 23.4 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: 0.06 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

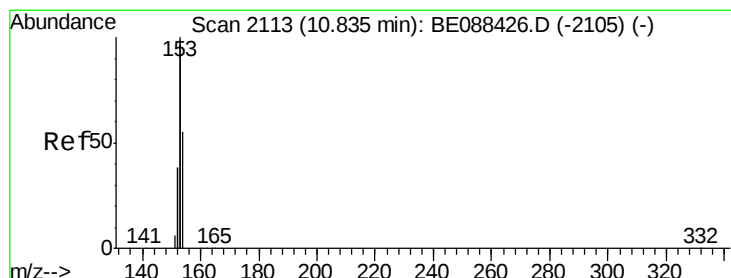
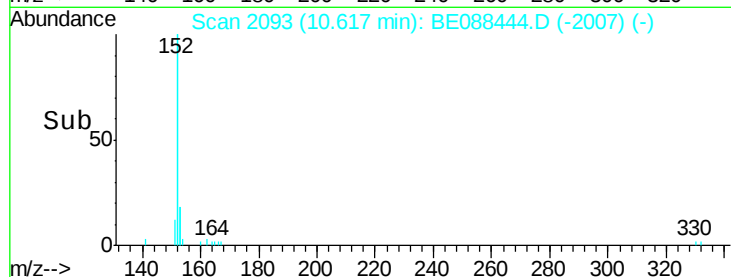
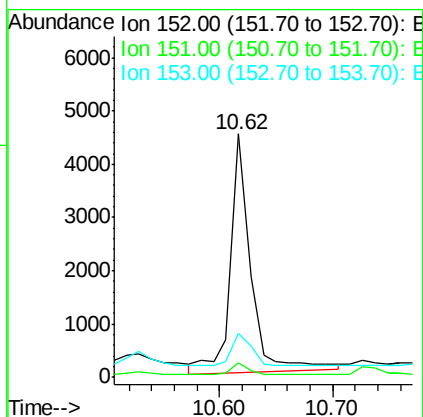
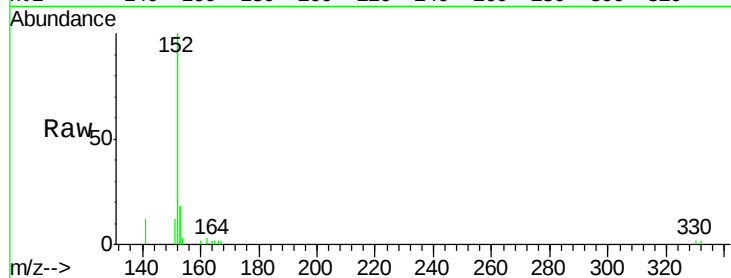
Tgt Ion:152 Resp: 5628

Ion Ratio Lower Upper

152 100

151 7.9 4.4 6.6#

153 0.0 10.5 15.7#



#10

Acenaphthene

Concen: 1.28 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

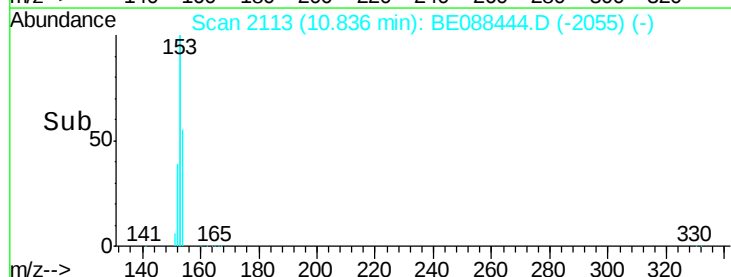
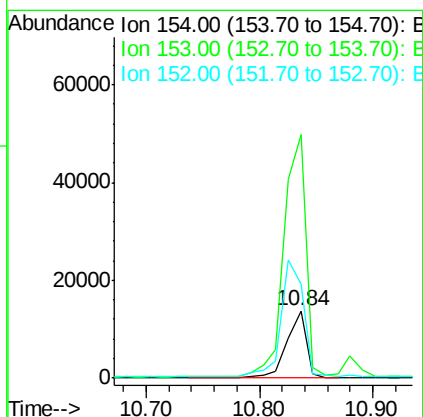
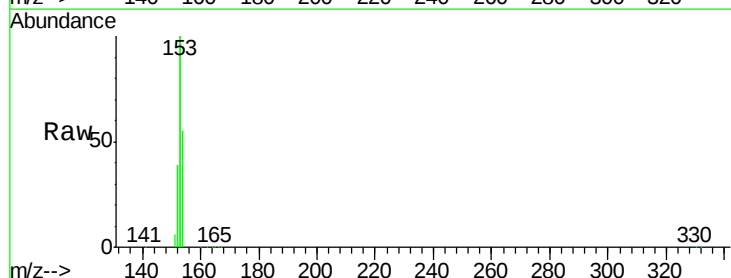
Tgt Ion:154 Resp: 16537

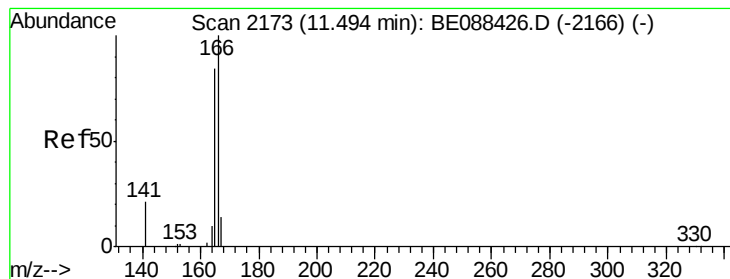
Ion Ratio Lower Upper

154 100

153 405.2 324.3 486.5

152 200.9 154.9 232.3





#11

Fluorene

Concen: 1.02 ng

RT: 11.50 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

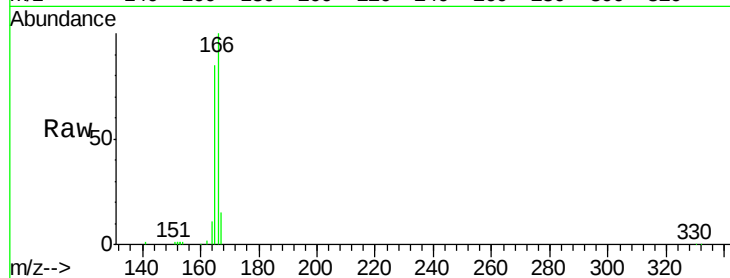
Tgt Ion:166 Resp: 13875

Ion Ratio Lower Upper

166 100

165 89.8 71.3 106.9

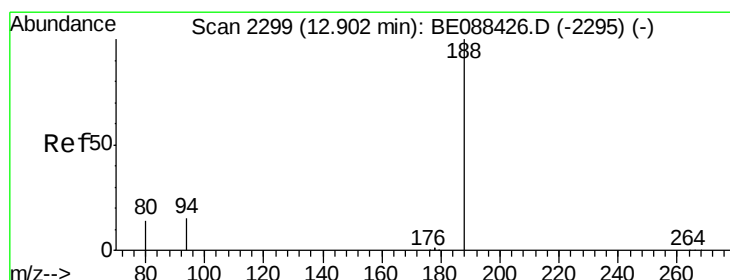
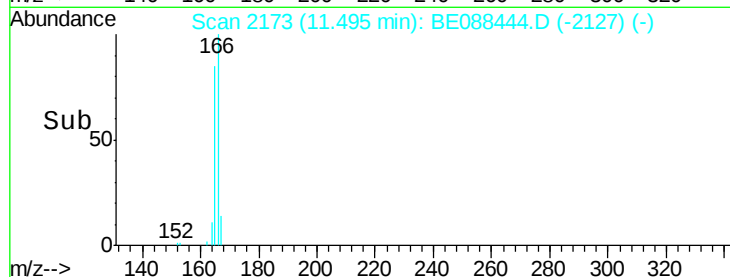
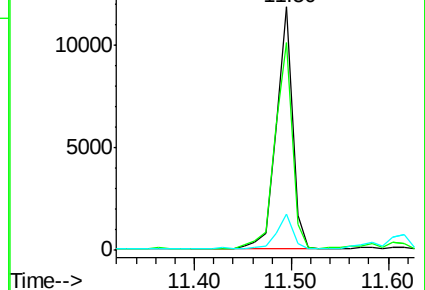
167 15.2 10.7 16.1



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: BE088444.D

Acq: 1 Nov 2014 4:12

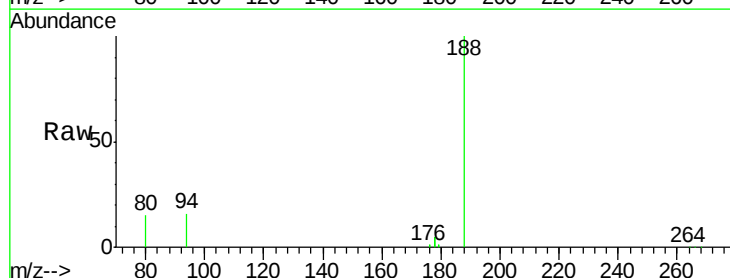
Tgt Ion:188 Resp: 92595

Ion Ratio Lower Upper

188 100

94 16.1 11.8 17.8

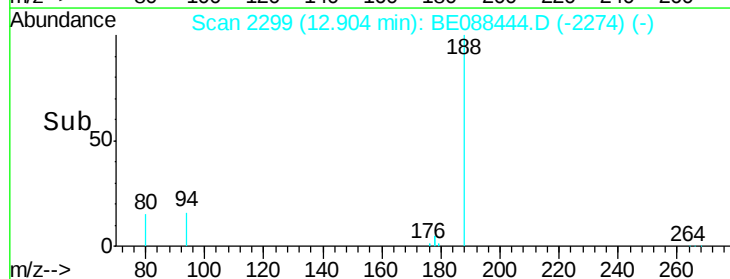
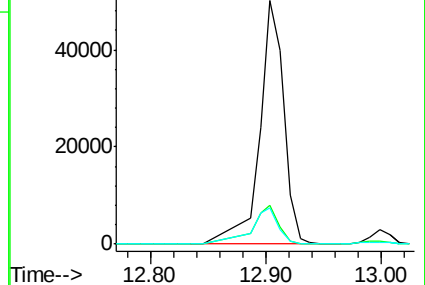
80 15.0 10.9 16.3

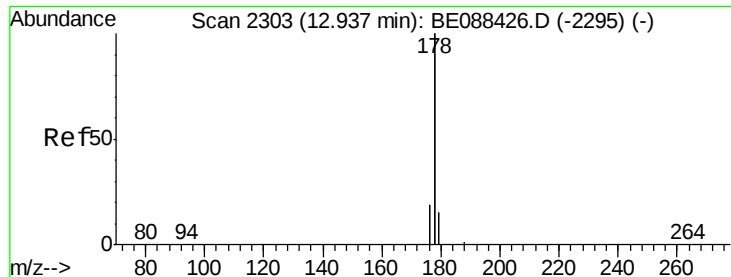


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 8.76 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.01 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

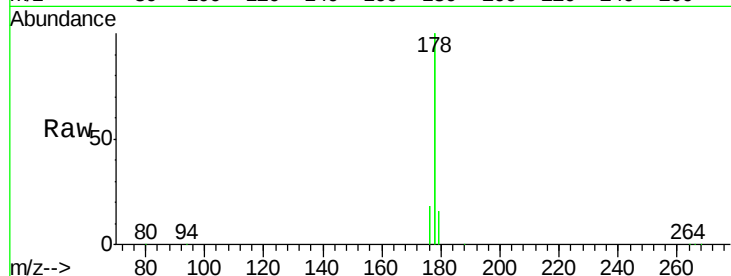
Tgt Ion:178 Resp: 737351

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

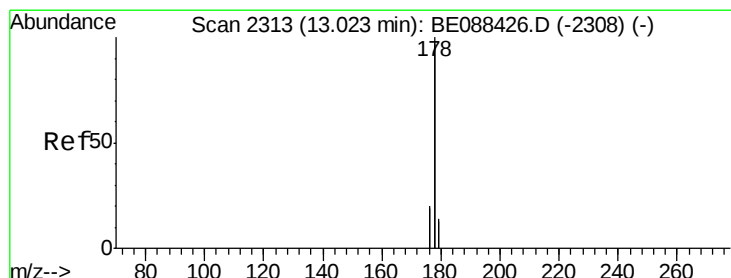
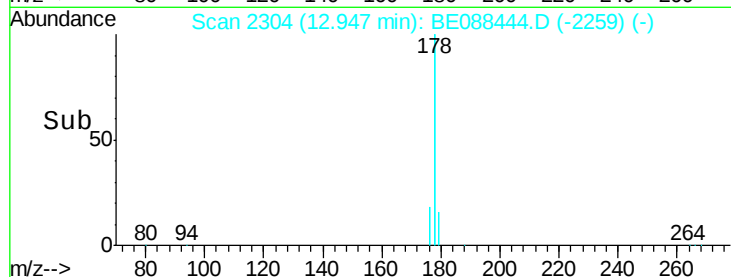
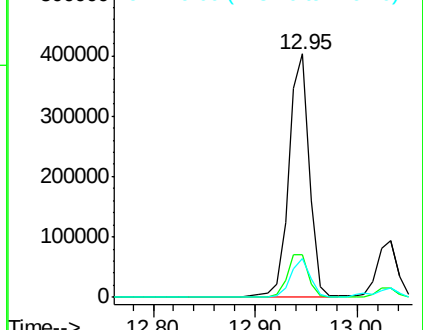
179 15.6 12.8 19.2



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: 10.85 ng

RT: 12.95 min Scan# 2304

Delta R.T. -0.08 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

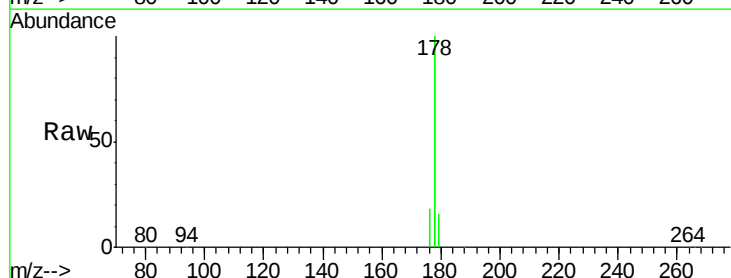
Tgt Ion:178 Resp: 737351

Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

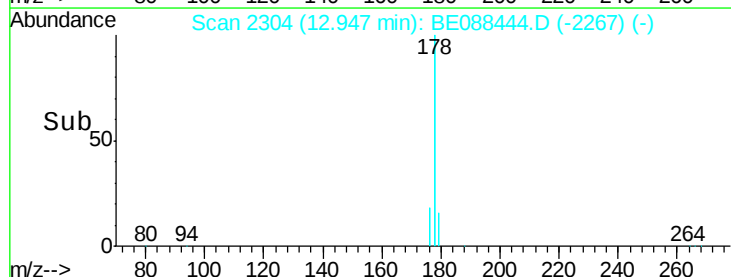
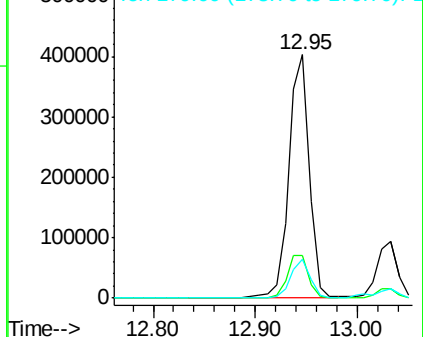
179 15.6 12.5 18.7

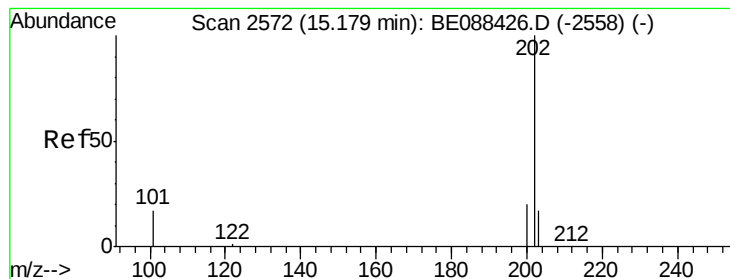


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 10.59 ng

RT: 15.18 min Scan# 2573

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

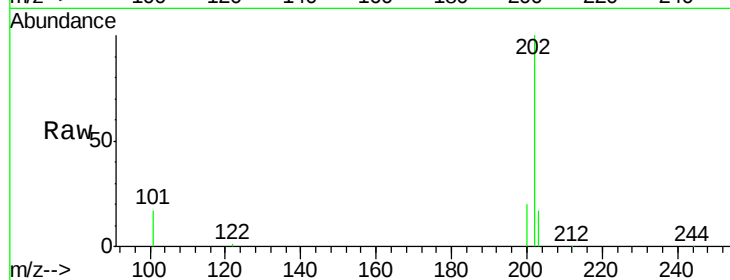
Tgt Ion:202 Resp: 144663

Ion Ratio Lower Upper

202 100

101 17.7 14.3 21.5

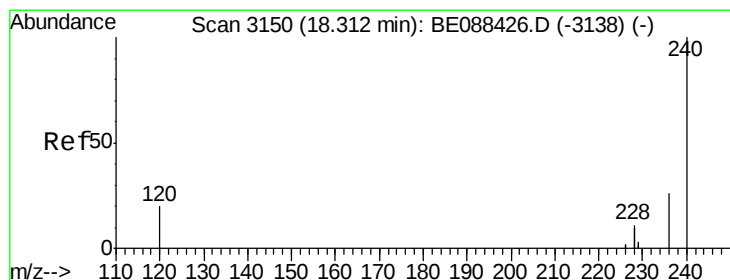
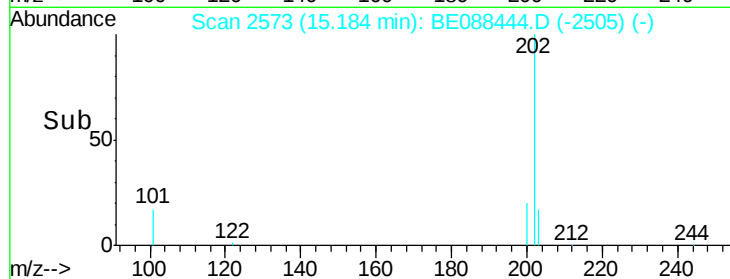
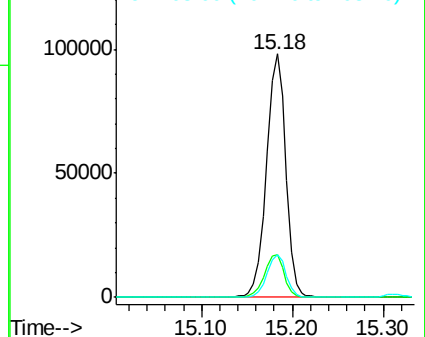
203 17.2 13.6 20.4



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: BE088444.D

Acq: 1 Nov 2014 4:12

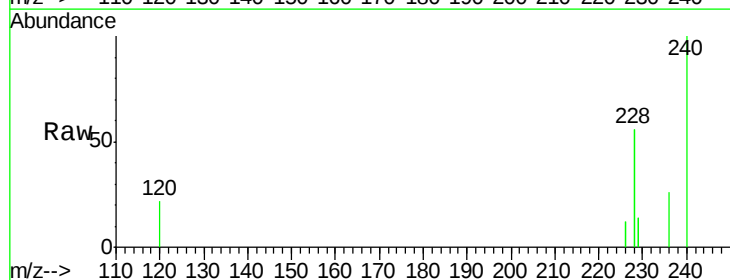
Tgt Ion:240 Resp: 48411

Ion Ratio Lower Upper

240 100

120 21.5 16.4 24.6

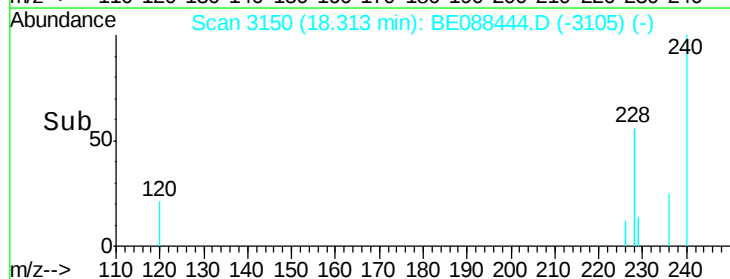
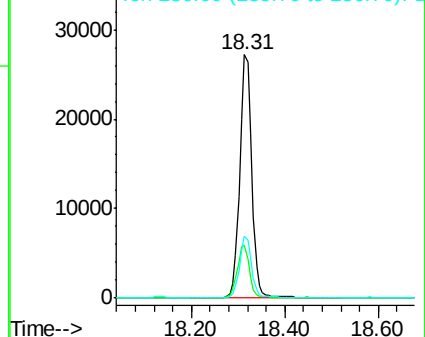
236 25.7 20.5 30.7

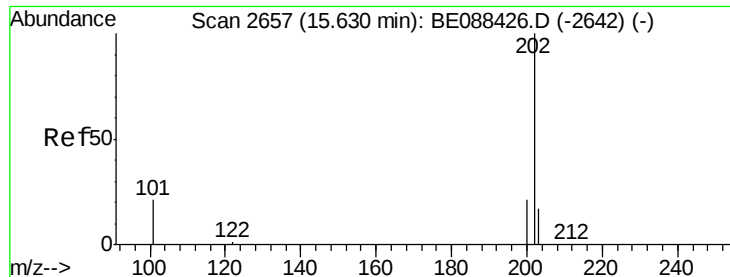


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

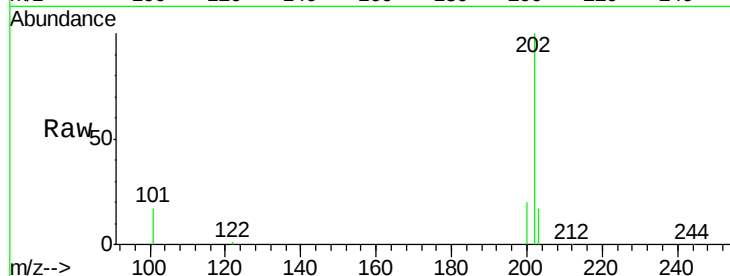




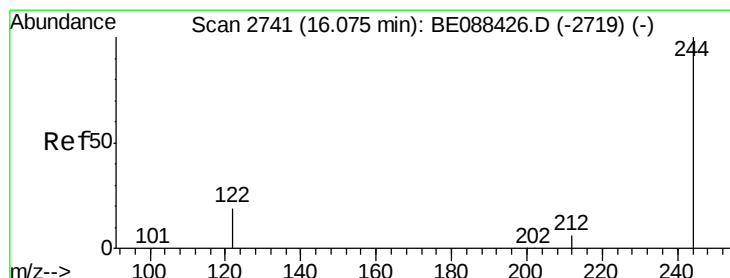
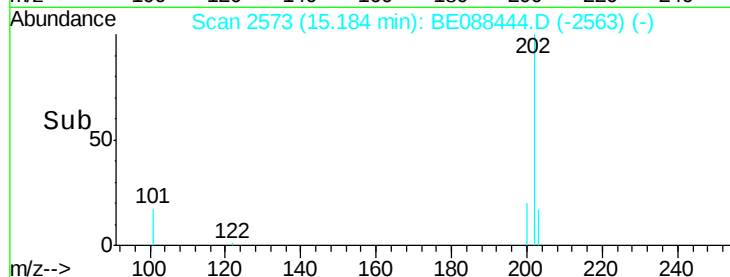
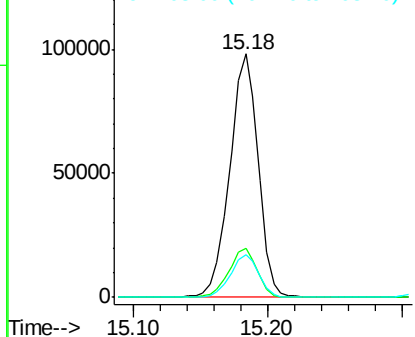
#17
 Pyrene
 Concen: 9.09 ng
 RT: 15.18 min Scan# 2573
 Delta R.T. -0.45 min
 Lab File: BE088444.D
 Acq: 1 Nov 2014 4:12

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS29-1014

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	17.3	13.8	20.8

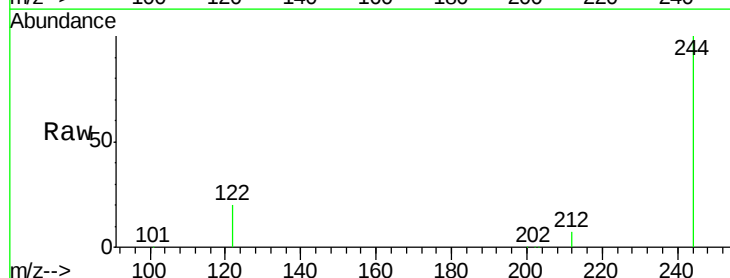


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

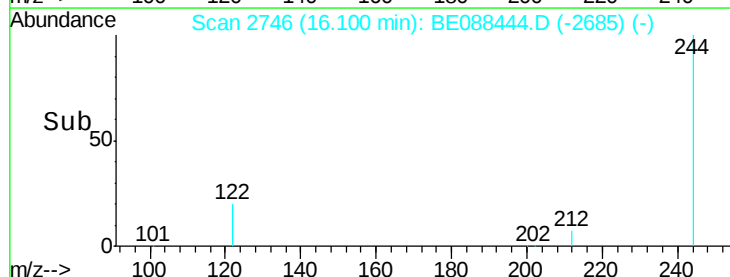
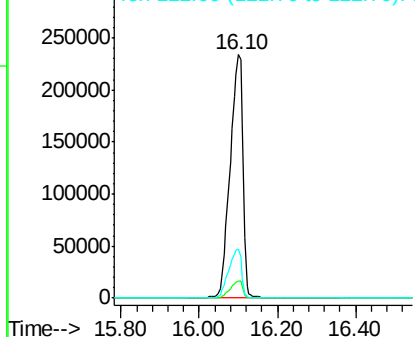


#18
 Terphenyl-d14
 Concen: 60.06 ng
 RT: 16.10 min Scan# 2746
 Delta R.T. 0.03 min
 Lab File: BE088444.D
 Acq: 1 Nov 2014 4:12

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	20.3	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: 4.75 ng

RT: 18.29 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

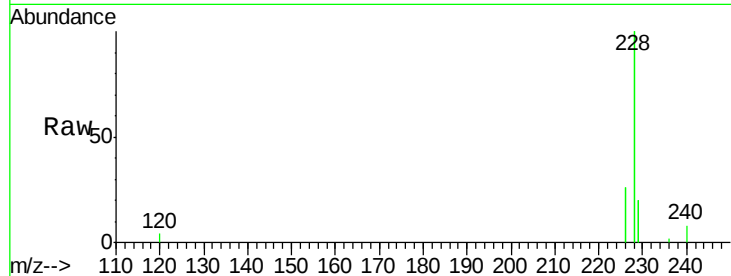
Tgt Ion:228 Resp: 216463

Ion Ratio Lower Upper

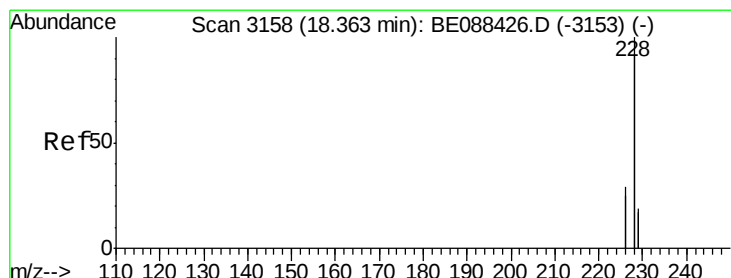
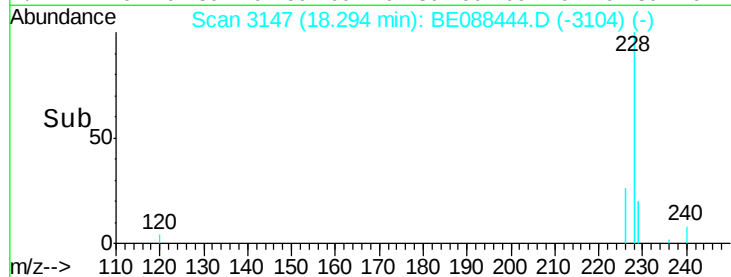
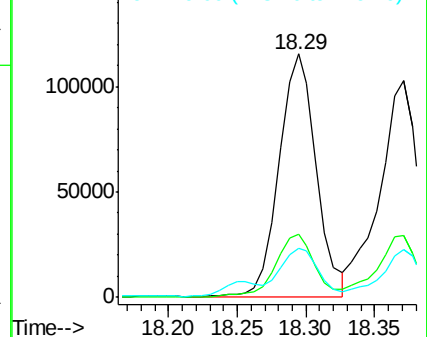
228 100

226 26.2 19.8 29.6

229 20.4 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: 4.51 ng

RT: 18.37 min Scan# 3159

Delta R.T. 0.01 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

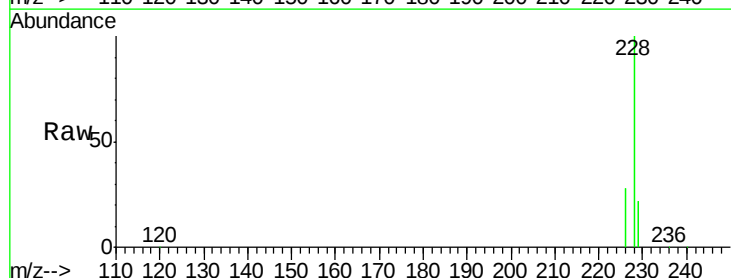
Tgt Ion:228 Resp: 201833

Ion Ratio Lower Upper

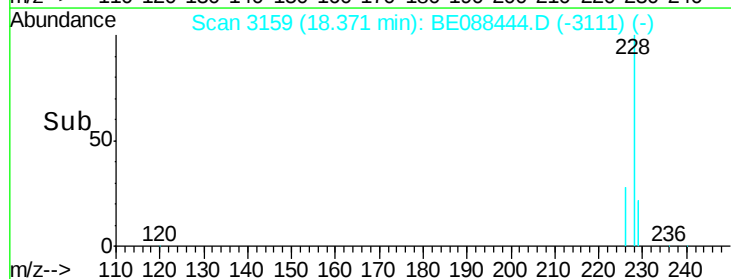
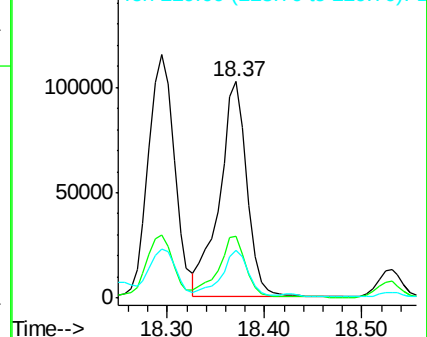
228 100

226 28.3 23.6 35.4

229 21.9 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: 2.76 ng

RT: 23.55 min Scan# 4151

Delta R.T. 0.01 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

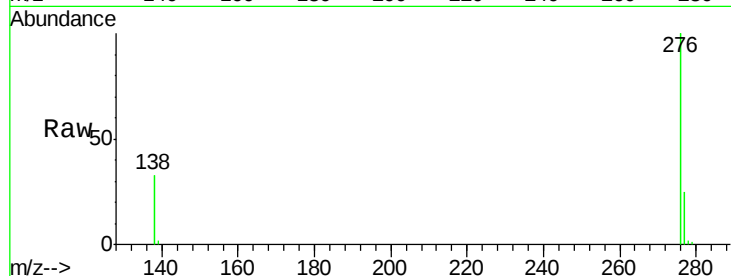
Tgt Ion:276 Resp: 115037

Ion Ratio Lower Upper

276 100

138 32.6 20.2 30.2#

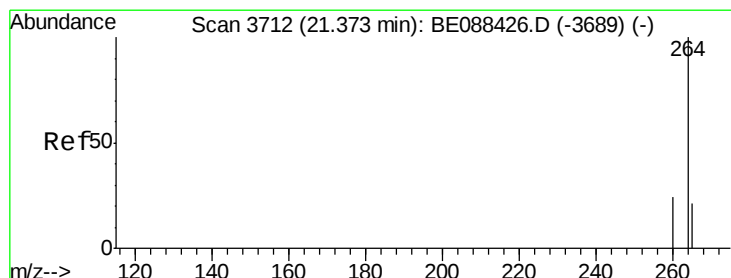
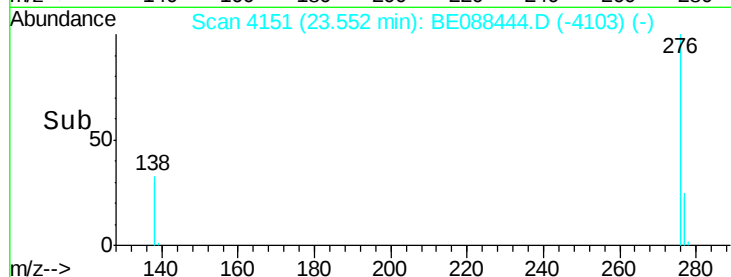
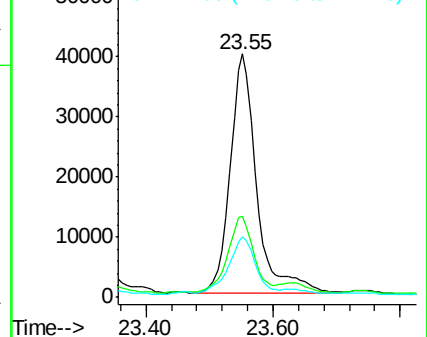
277 22.7 14.8 22.2#



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: BE088444.D

Acq: 1 Nov 2014 4:12

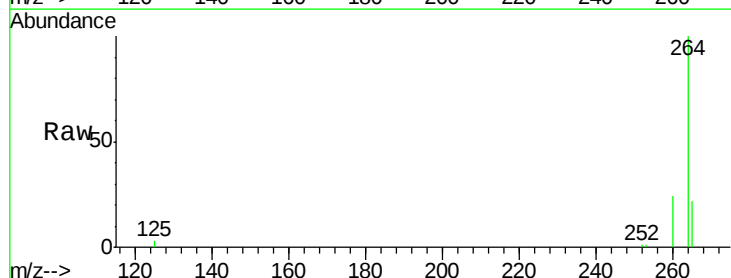
Tgt Ion:264 Resp: 43930

Ion Ratio Lower Upper

264 100

260 23.9 18.9 28.3

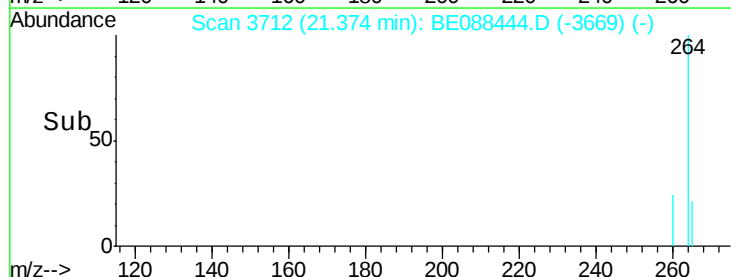
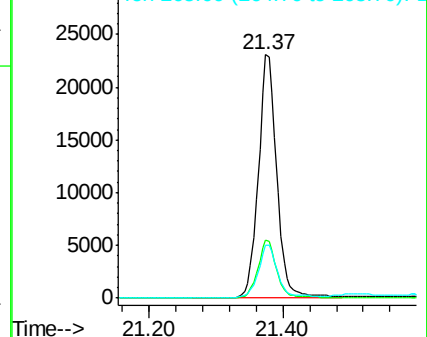
265 21.7 17.2 25.8



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: 6.01 ng

RT: 20.62 min Scan# 3547

Delta R.T. 0.01 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

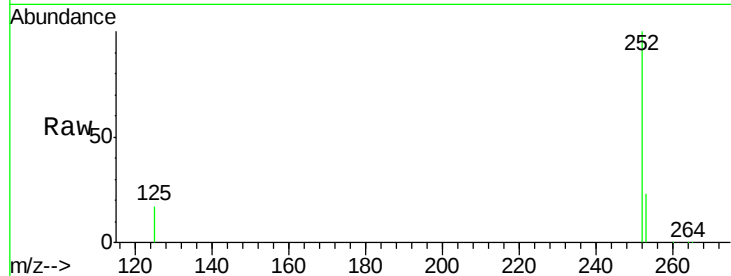
Tgt Ion:252 Resp: 57910

Ion Ratio Lower Upper

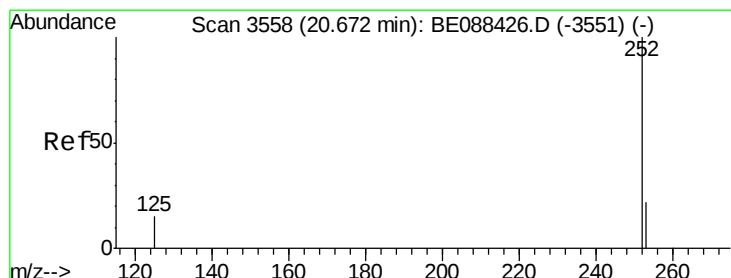
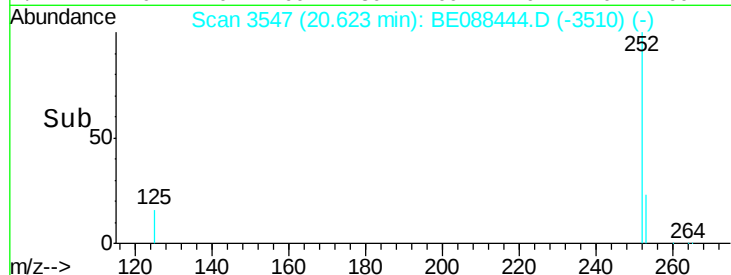
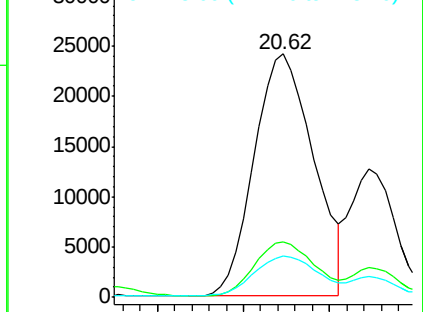
252 100

253 22.9 17.8 26.8

125 16.9 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: 2.23 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

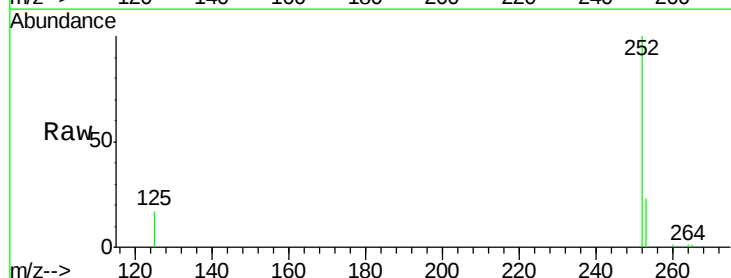
Tgt Ion:252 Resp: 23620

Ion Ratio Lower Upper

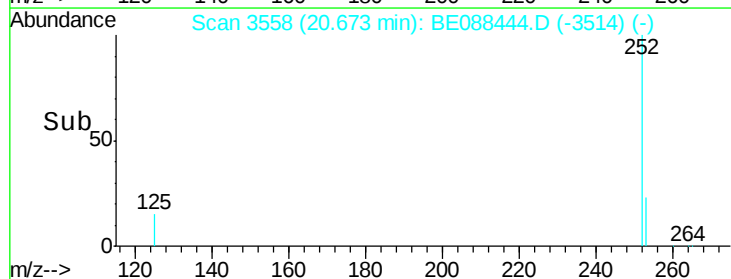
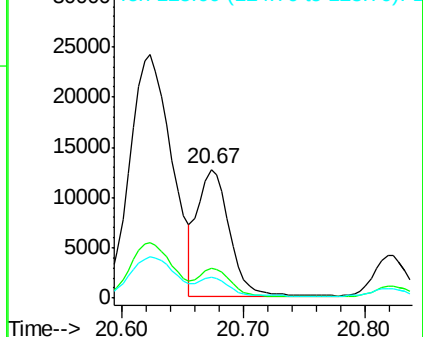
252 100

253 23.4 17.8 26.8

125 16.5 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: 4.47 ng

RT: 21.26 min Scan# 3687

Delta R.T. 0.01 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014

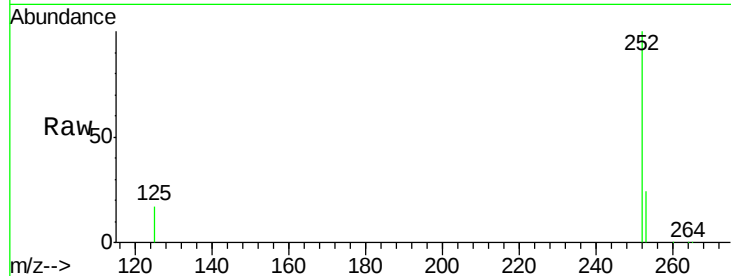
Tgt Ion: 252 Resp: 41339

Ion Ratio Lower Upper

252 100

253 23.6 18.2 27.4

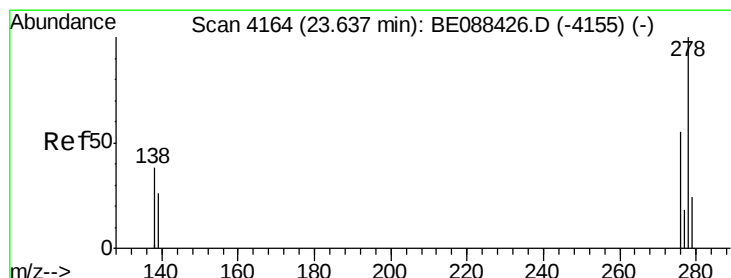
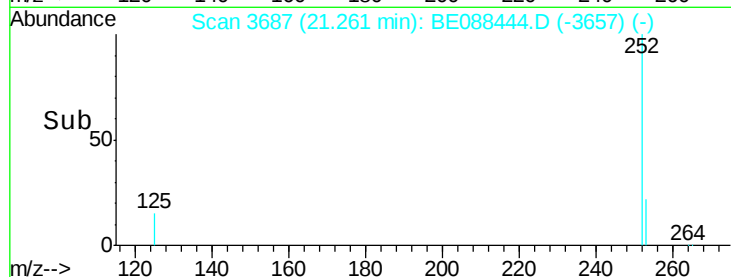
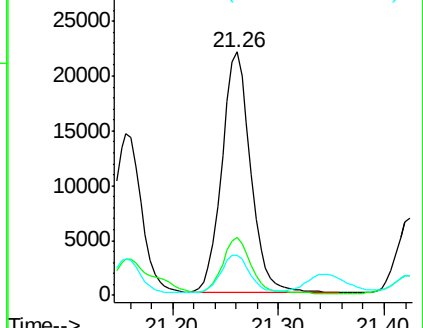
125 16.6 13.7 20.5



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: 0.56 ng

RT: 23.88 min Scan# 4201

Delta R.T. 0.24 min

Lab File: BE088444.D

Acq: 1 Nov 2014 4:12

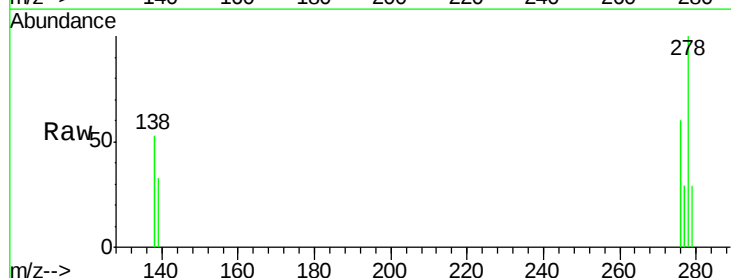
Tgt Ion: 278 Resp: 4807

Ion Ratio Lower Upper

278 100

139 32.9 22.1 33.1

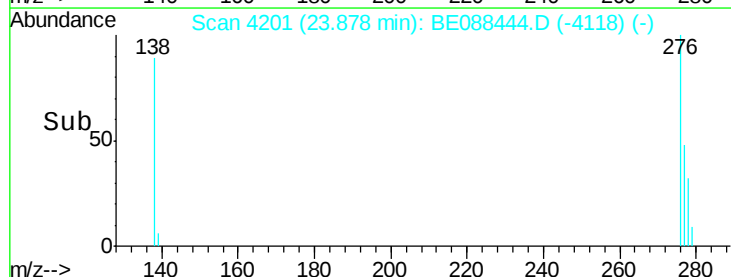
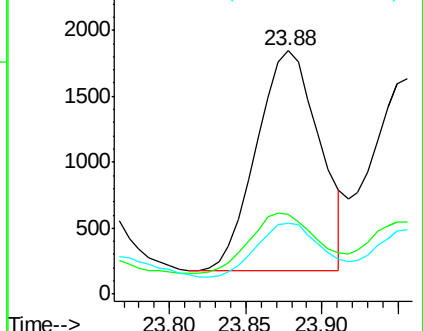
279 29.1 19.7 29.5



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: 2.69 ng

RT: 24.18 min Scan# 4247

Delta R.T. 0.01 min

Lab File: BE088444.D

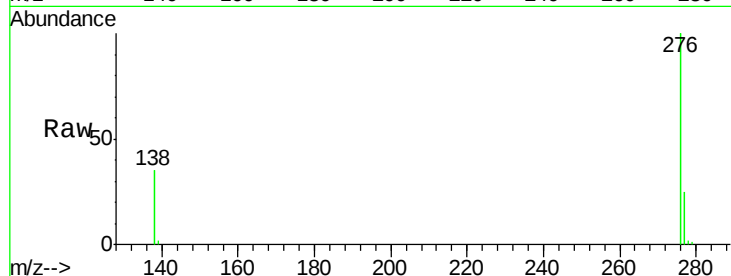
Acq: 1 Nov 2014 4:12

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014



Tgt Ion: 276 Resp: 106068

Ion Ratio Lower Upper

276 100

277 24.5 19.8 29.6

138 35.4 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

