

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088451.D
 Acq On : 1 Nov 2014 8:05
 Operator : TP/JJ
 Sample : F4379-15
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS38-1014

Quant Time: Nov 02 04:16:37 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	24582	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	94438	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	46269	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	82594	5.00	ng	0.00
16) Chrysene-d12	18.33	240	35614	5.00	ng	0.02
22) Perylene-d12	21.40	264	33888	5.00	ng	0.02

System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	456299	65.88	ng	0.02
8) 2-Fluorobiphenyl	10.00	172	542493	41.60	ng	0.01
18) Terphenyl-d14	16.10	244	351803	53.77	ng	0.03

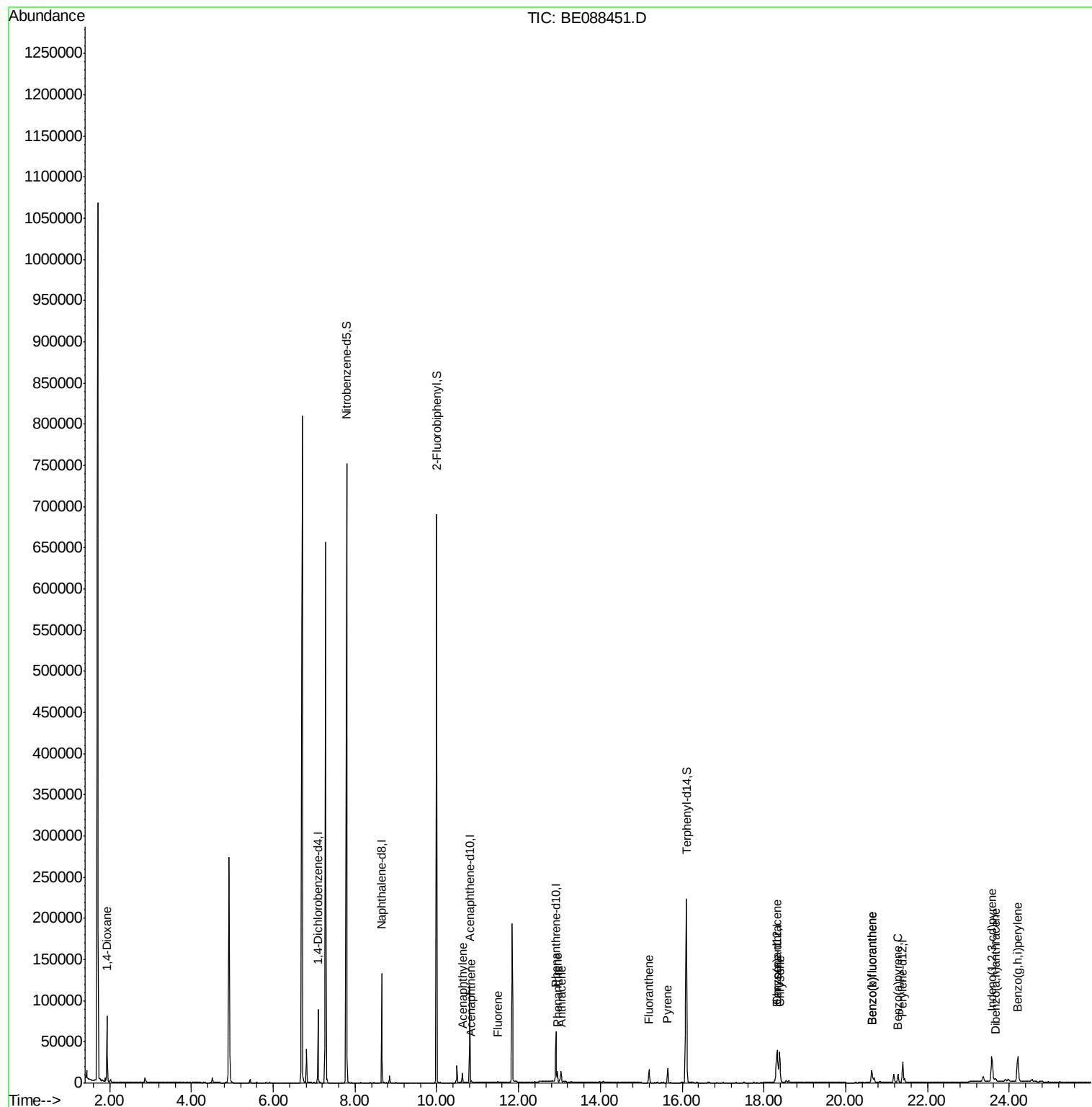
Target Compounds						Qvalue
2) 1,4-Dioxane	1.94	88	2651	0.82	ng	# 1
9) Acenaphthylene	10.63	152	12134	0.16	ng	97
10) Acenaphthene	10.84	154	331	0.03	ng	# 80
11) Fluorene	11.49	166	477	0.04	ng	# 84
13) Phenanthrene	12.95	178	18495	0.25	ng	# 71
14) Anthracene	13.04	178	13486	0.22	ng	# 92
15) Fluoranthene	15.19	202	16057	1.32	ng	99
17) Pyrene	15.65	202	17138	1.48	ng	98
19) Benzo(a)anthracene	18.31	228	37907	1.13	ng	96
20) Chrysene	18.38	228	54921	1.67	ng	98
21) Indeno(1,2,3-cd)pyrene	23.57	276	53231	1.74	ng	# 87
23) Benzo(b)fluoranthene	20.64	252	25560	3.44	ng	97
24) Benzo(k)fluoranthene	20.64	252	25560	3.12	ng	97
25) Benzo(a)pyrene	21.28	252	13664	1.92	ng	97
26) Dibenzo(a,h)anthracene	23.66	278	2889	0.44	ng	# 81
27) Benzo(g,h,i)perylene	24.20	276	58178	1.91	ng	100

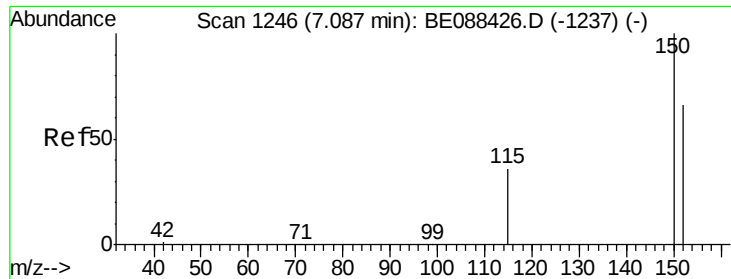
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
Data File : BE088451.D
Acq On : 1 Nov 2014 8:05
Operator : TP/JJ
Sample : F4379-15
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
YS19-SS38-1014

Quant Time: Nov 02 04:16:37 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# 1248

Delta R.T. 0.00 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

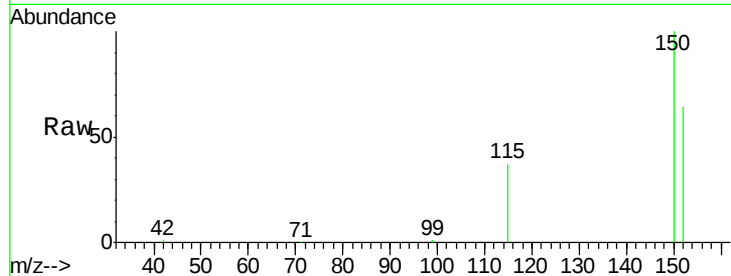
Tgt Ion:152 Resp: 24582

Ion Ratio Lower Upper

152 100

150 157.4 121.8 182.8

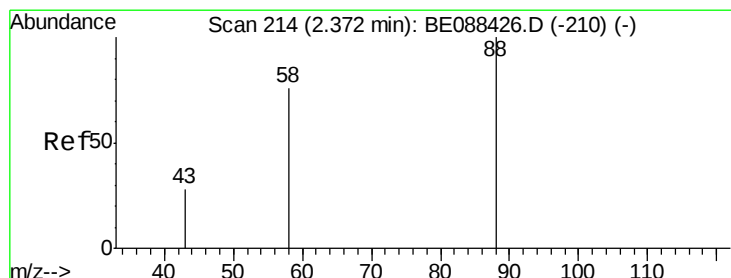
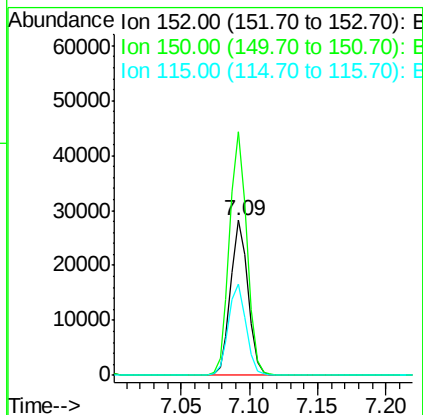
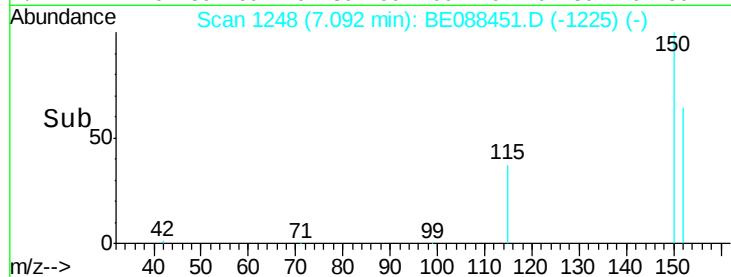
115 58.6 43.9 65.9



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: 0.82 ng

RT: 1.94 min Scan# 119

Delta R.T. -0.44 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

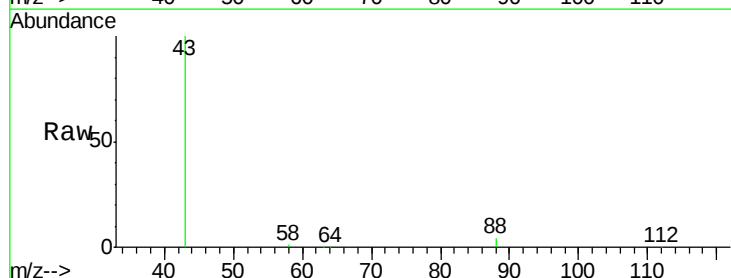
Tgt Ion: 88 Resp: 2651

Ion Ratio Lower Upper

88 100

58 26.8 59.1 88.7#

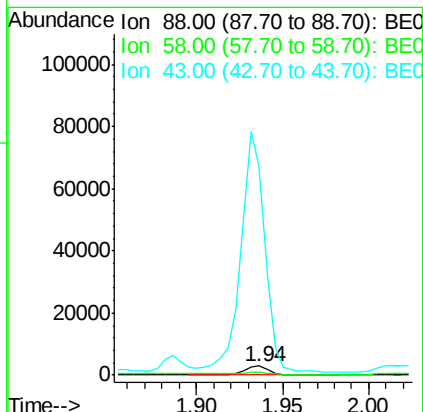
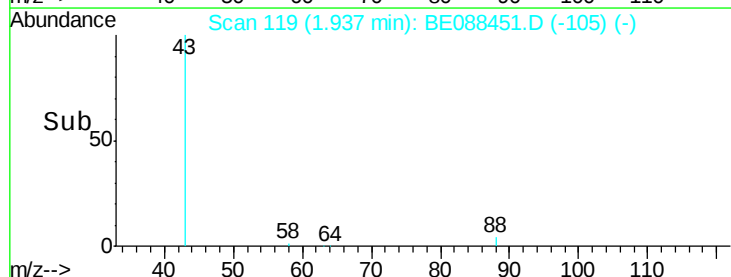
43 2771.4 21.9 32.9#

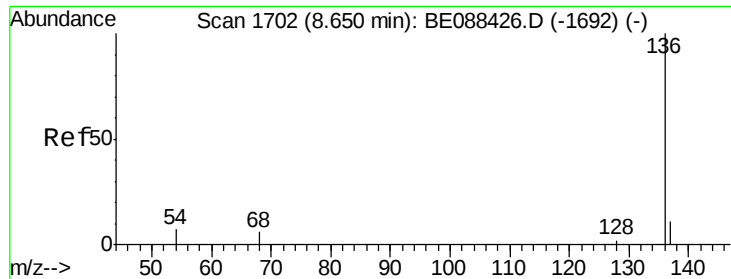


Abundance Ion 88.00 (87.70 to 88.70): BE0

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# 1703

Delta R.T. 0.00 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

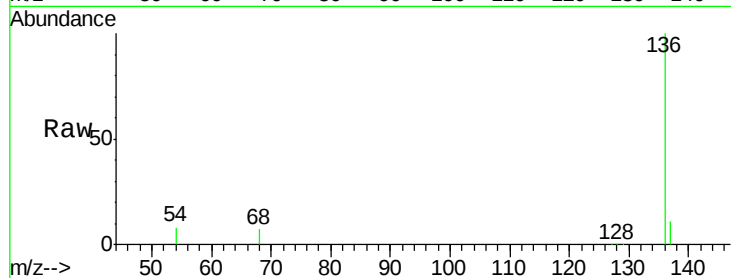
Tgt Ion:136 Resp: 94438

Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

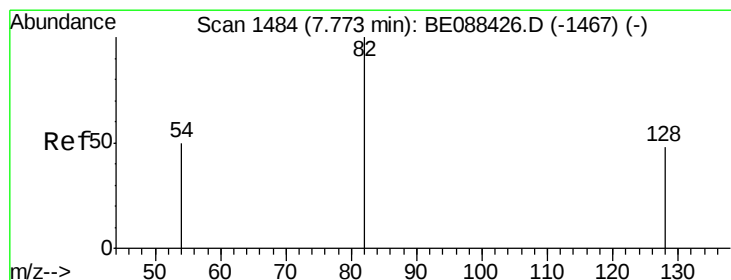
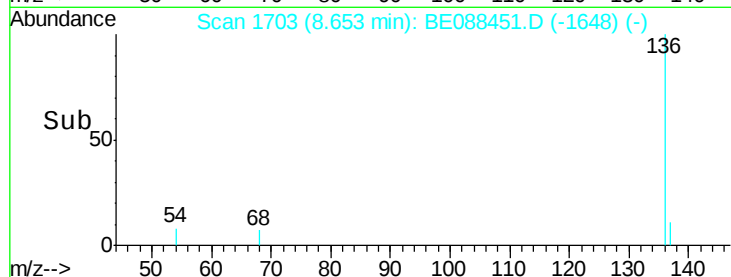
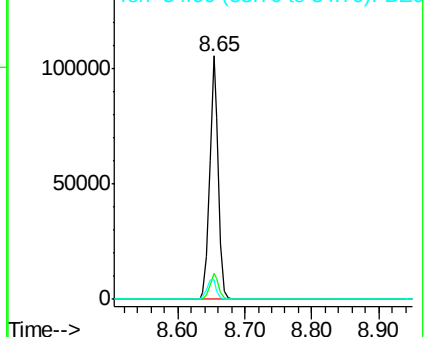
54 8.0 5.3 7.9#



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): BE0



#4

Nitrobenzene-d5

Concen: 65.88 ng

RT: 7.79 min Scan# 1494

Delta R.T. 0.02 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

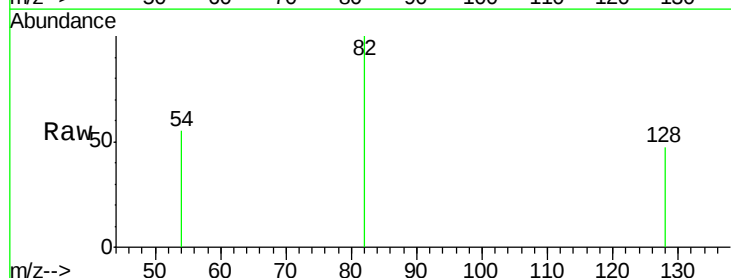
Tgt Ion: 82 Resp: 456299

Ion Ratio Lower Upper

82 100

128 46.7 38.4 57.6

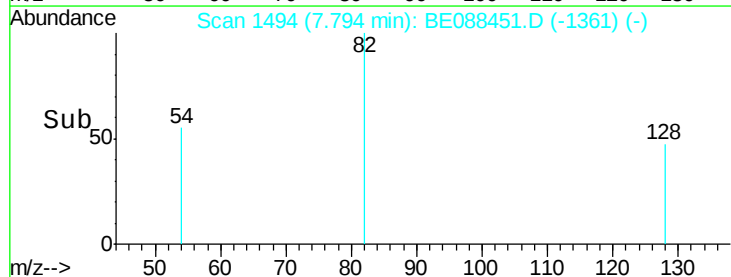
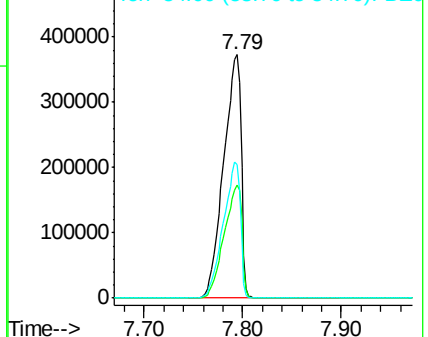
54 55.0 40.2 60.2

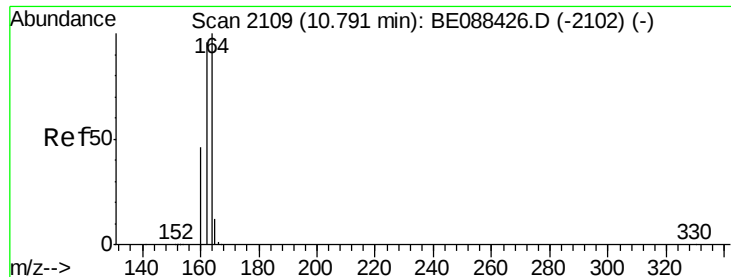


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.80 min Scan# 2110

Delta R.T. 0.01 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

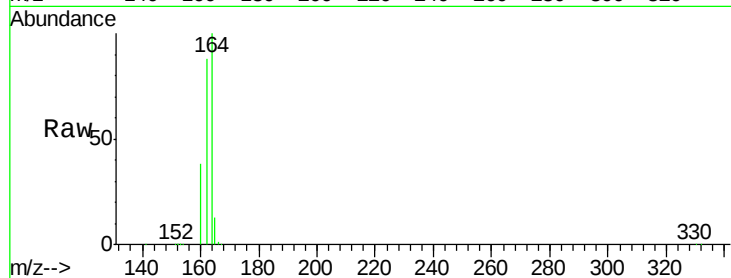
Tgt Ion:164 Resp: 46269

Ion Ratio Lower Upper

164 100

162 87.8 77.0 115.4

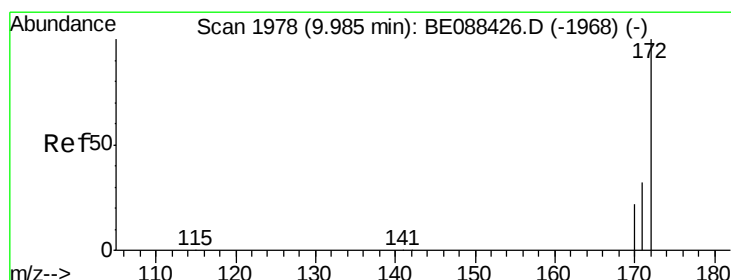
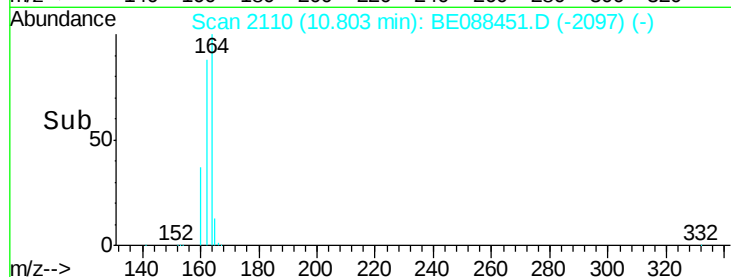
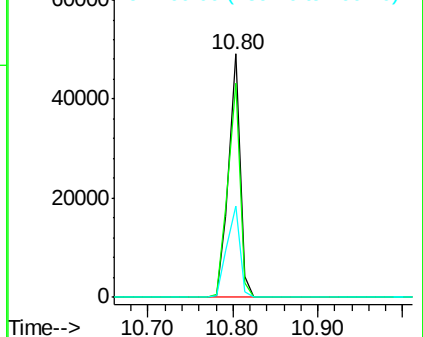
160 37.5 36.8 55.2



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: 41.60 ng

RT: 10.00 min Scan# 1981

Delta R.T. 0.01 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

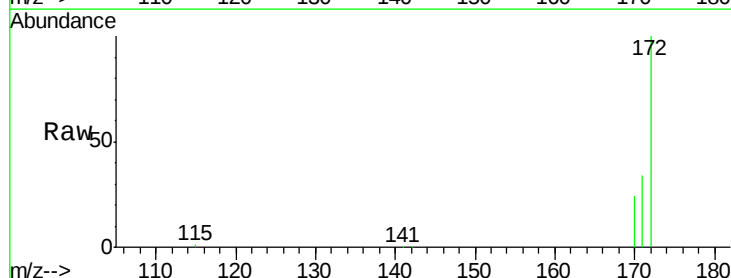
Tgt Ion:172 Resp: 542493

Ion Ratio Lower Upper

172 100

171 34.1 26.0 39.0

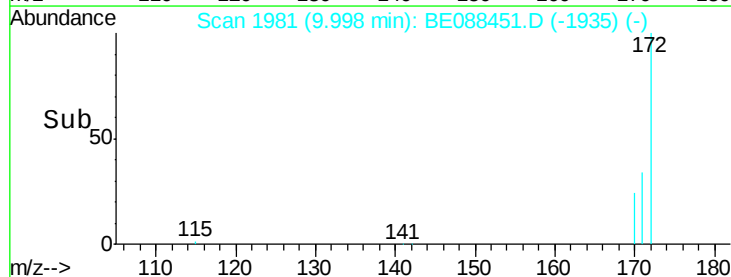
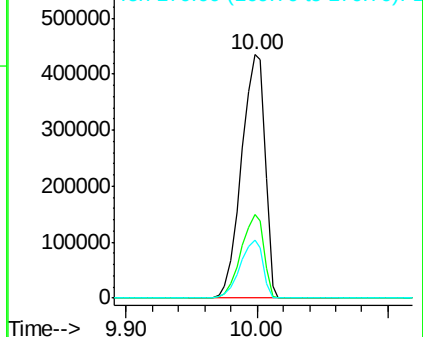
170 23.9 17.6 26.4

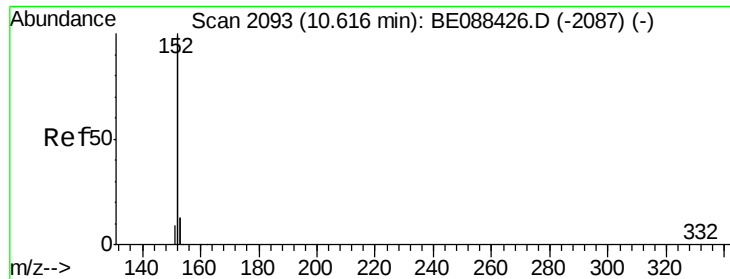


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.16 ng

RT: 10.63 min Scan# 2094

Delta R.T. 0.01 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

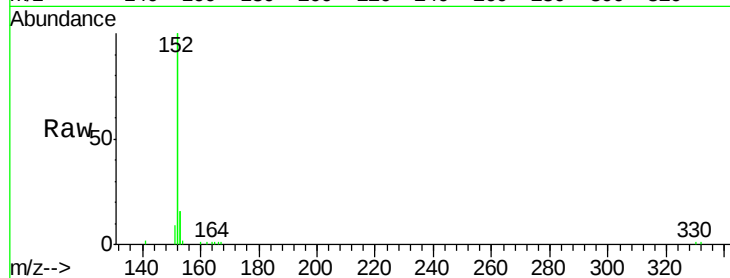
Tgt Ion:152 Resp: 12134

Ion Ratio Lower Upper

152 100

151 4.5 4.4 6.6

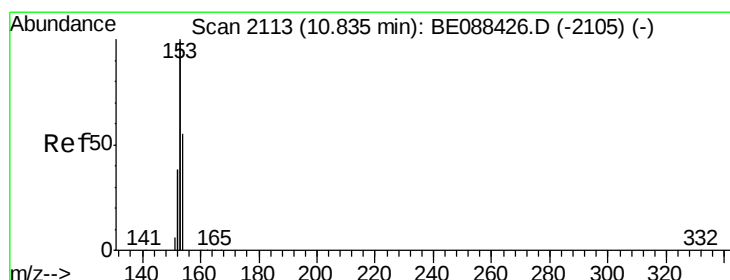
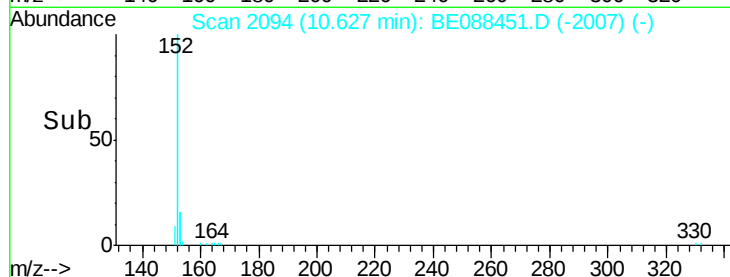
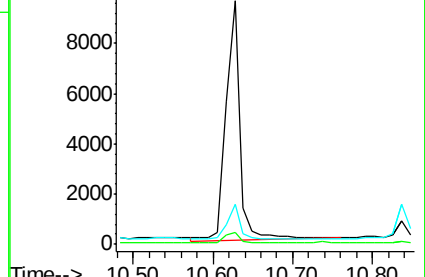
153 12.2 10.5 15.7



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: 0.03 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

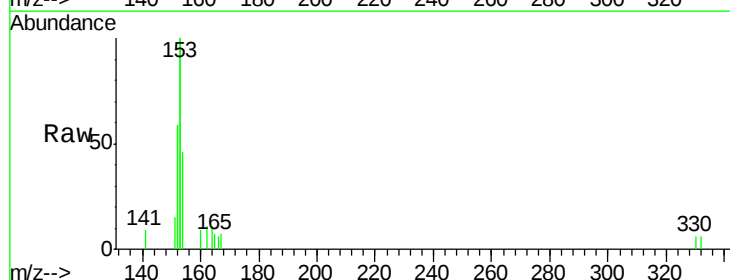
Tgt Ion:154 Resp: 331

Ion Ratio Lower Upper

154 100

153 376.1 324.3 486.5

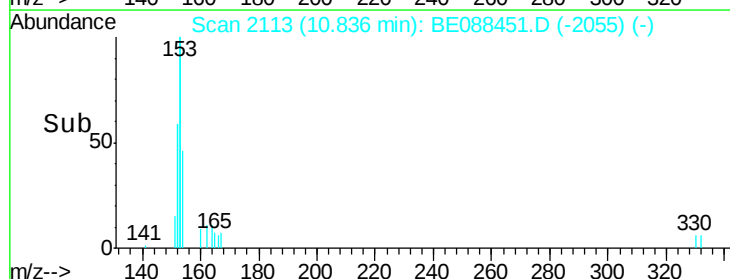
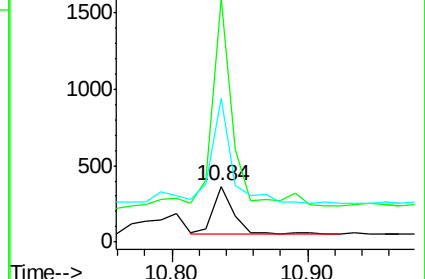
152 249.2 154.9 232.3#

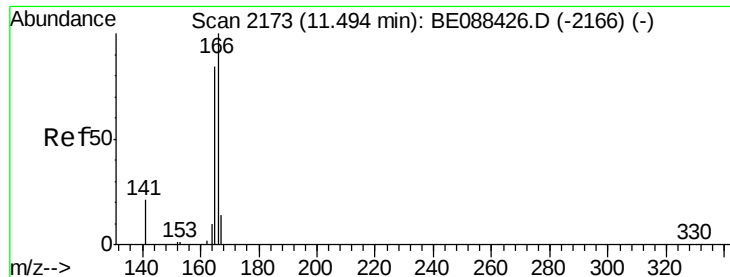


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

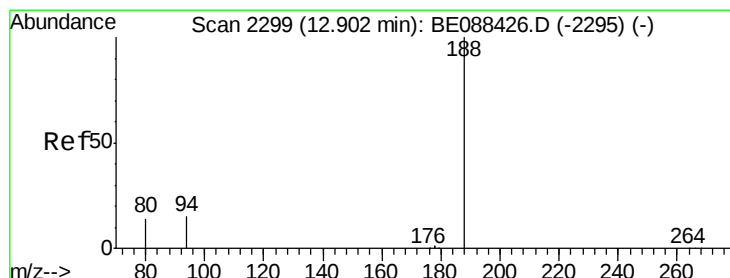
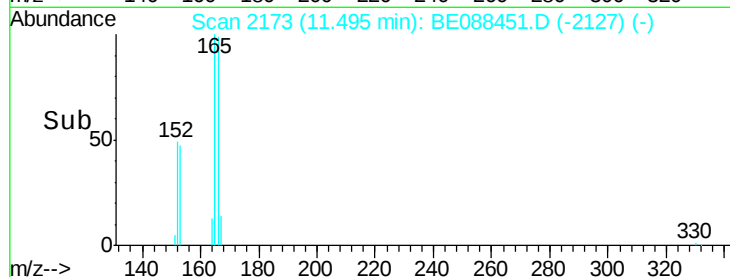
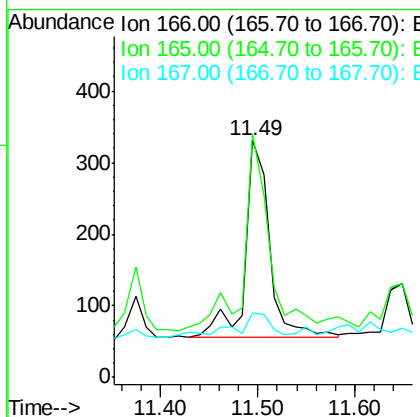
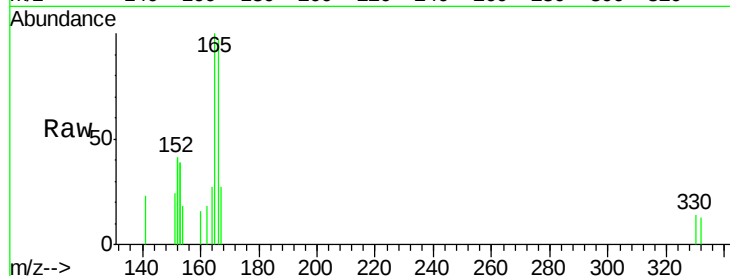




#11
 Fluorene
 Concen: 0.04 ng
 RT: 11.49 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: BE088451.D
 Acq: 1 Nov 2014 8:05

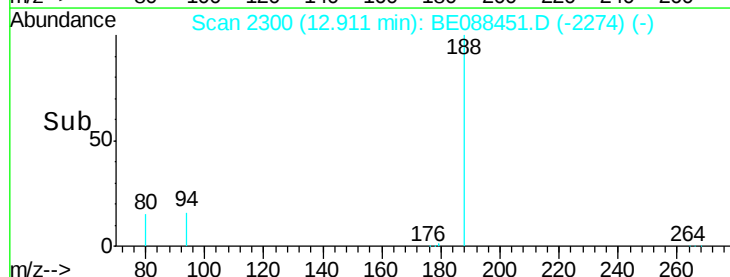
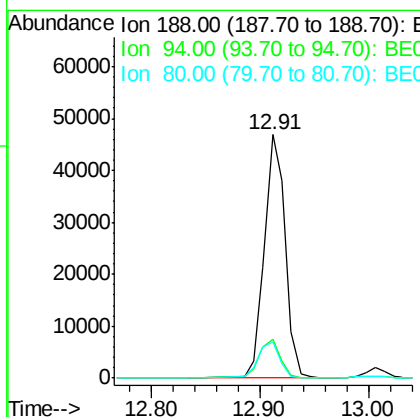
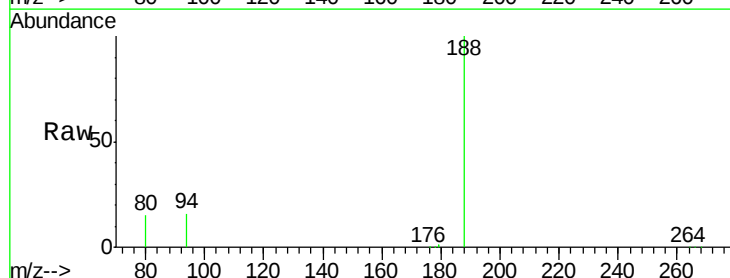
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS38-1014

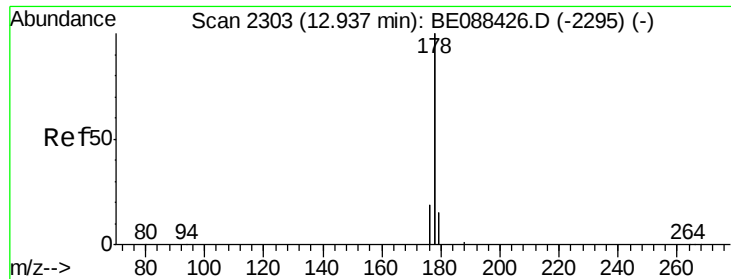
Tgt Ion:166 Resp: 477
 Ion Ratio Lower Upper
 166 100
 165 105.0 71.3 106.9
 167 18.7 10.7 16.1#



#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.91 min Scan# 2300
 Delta R.T. 0.01 min
 Lab File: BE088451.D
 Acq: 1 Nov 2014 8:05

Tgt Ion:188 Resp: 82594
 Ion Ratio Lower Upper
 188 100
 94 16.0 11.8 17.8
 80 14.9 10.9 16.3

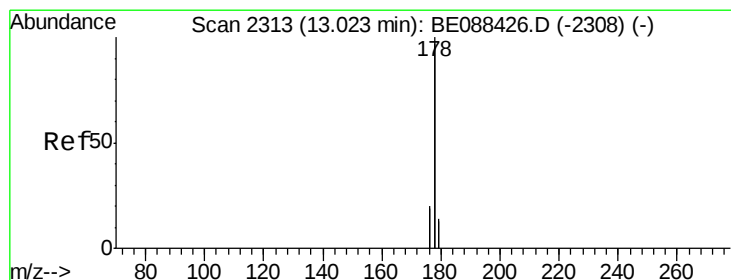
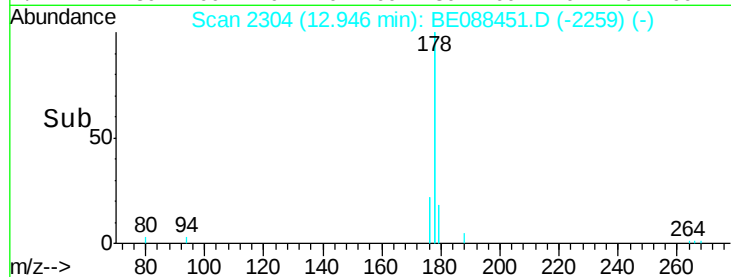
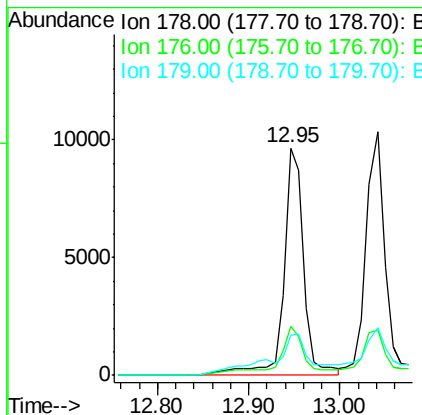
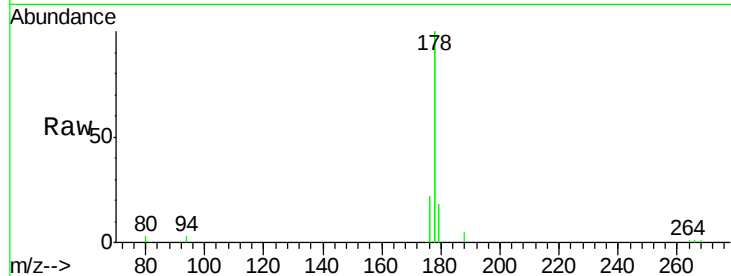




#13
Phenanthrene
Concen: 0.25 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088451.D
Acq: 1 Nov 2014 8:05

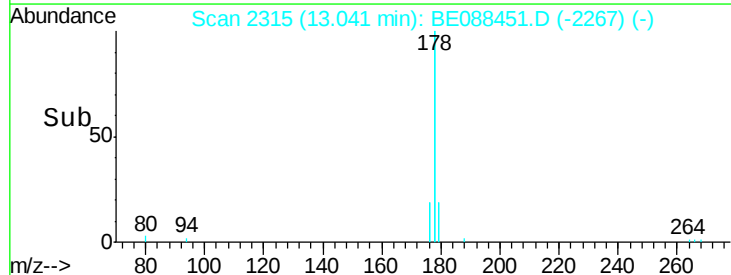
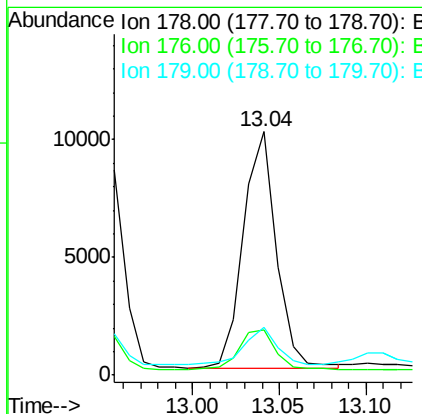
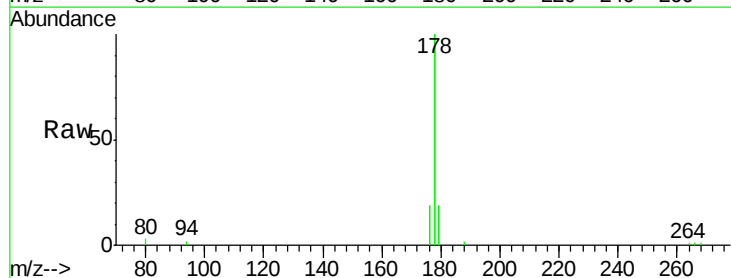
Instrument :
BNA_E
ClientSampleId :
YS19-SS38-1014

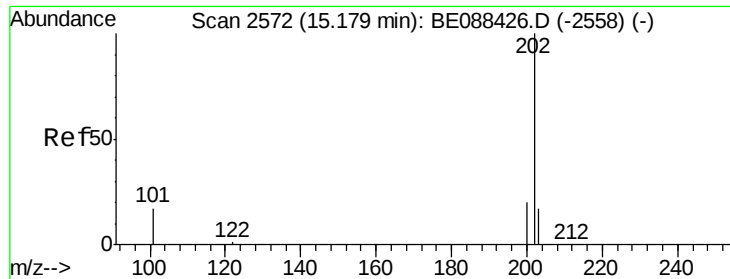
Tgt Ion:178 Resp: 18495
Ion Ratio Lower Upper
178 100
176 28.0 15.4 23.2#
179 33.1 12.8 19.2#



#14
Anthracene
Concen: 0.22 ng
RT: 13.04 min Scan# 2315
Delta R.T. 0.02 min
Lab File: BE088451.D
Acq: 1 Nov 2014 8:05

Tgt Ion:178 Resp: 13486
Ion Ratio Lower Upper
178 100
176 19.9 15.0 22.4
179 22.0 12.5 18.7#

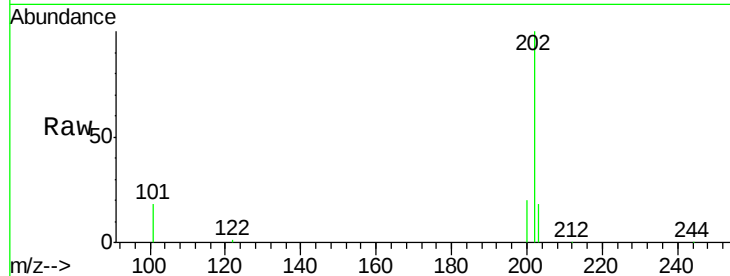




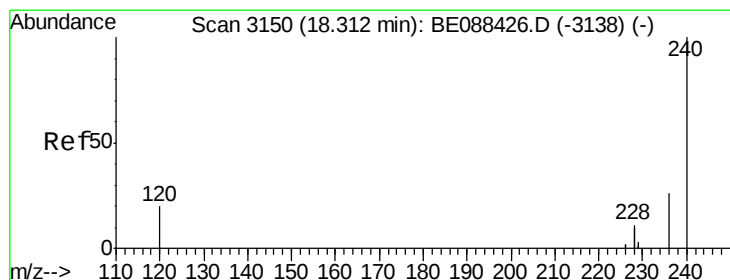
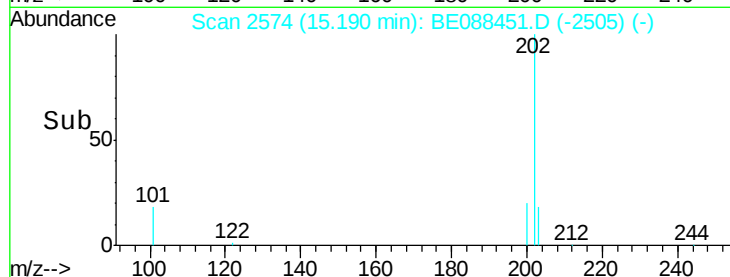
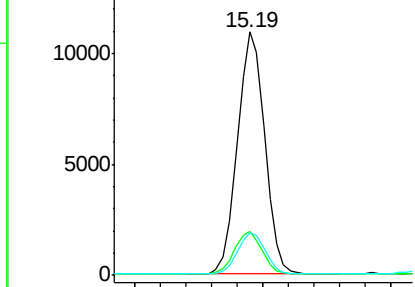
#15
 Fluoranthene
 Concen: 1.32 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088451.D
 Acq: 1 Nov 2014 8:05

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS38-1014

Tgt Ion: 202 Resp: 16057
 Ion Ratio Lower Upper
 202 100
 101 17.5 14.3 21.5
 203 17.1 13.6 20.4

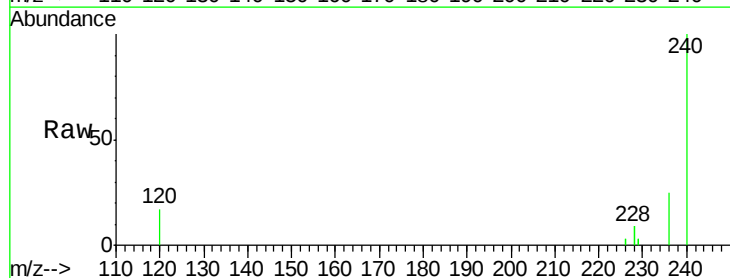


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

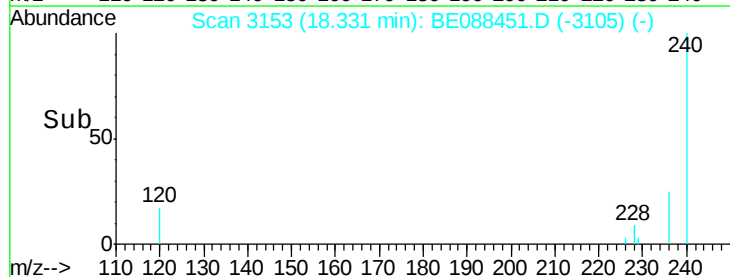
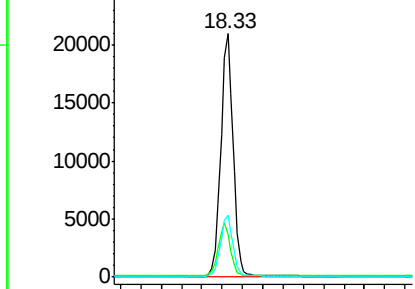


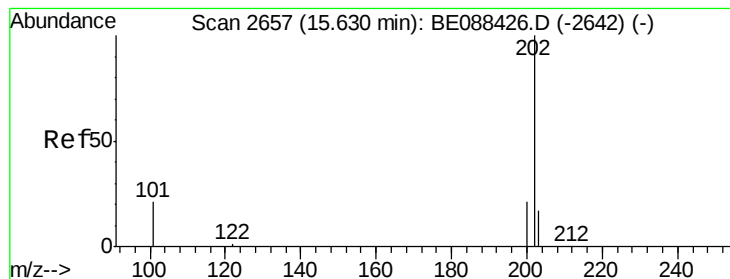
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3153
 Delta R.T. 0.02 min
 Lab File: BE088451.D
 Acq: 1 Nov 2014 8:05

Tgt Ion: 240 Resp: 35614
 Ion Ratio Lower Upper
 240 100
 120 17.5 16.4 24.6
 236 25.2 20.5 30.7



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





#17

Pyrene

Concen: 1.48 ng

RT: 15.65 min Scan# 2660

Delta R.T. 0.02 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

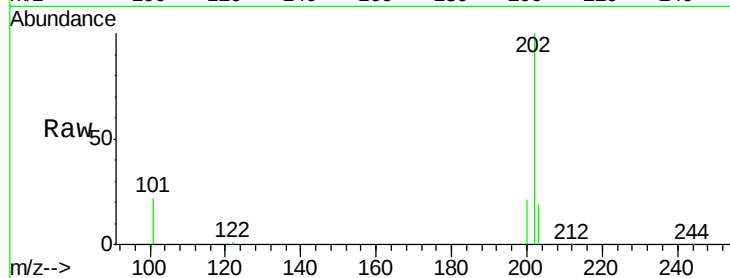
Tgt Ion: 202 Resp: 17138

Ion Ratio Lower Upper

202 100

200 20.2 16.1 24.1

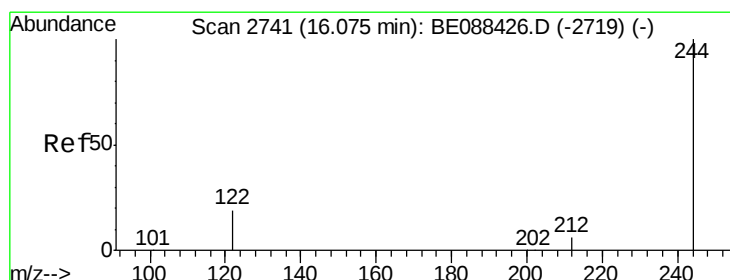
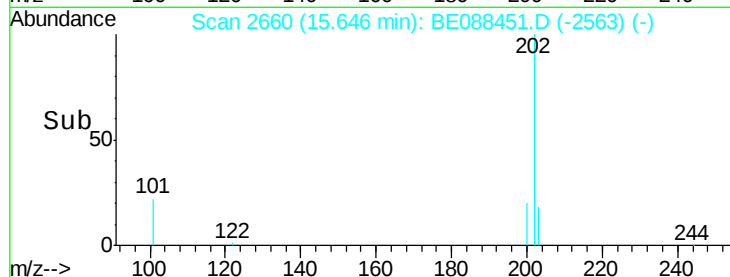
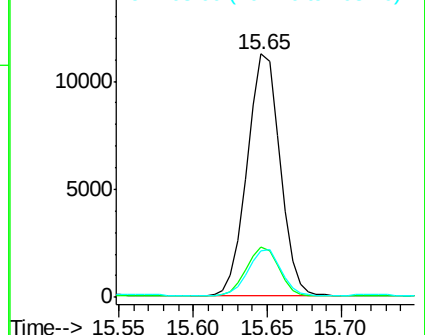
203 19.2 13.8 20.8



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: 53.77 ng

RT: 16.10 min Scan# 2746

Delta R.T. 0.03 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

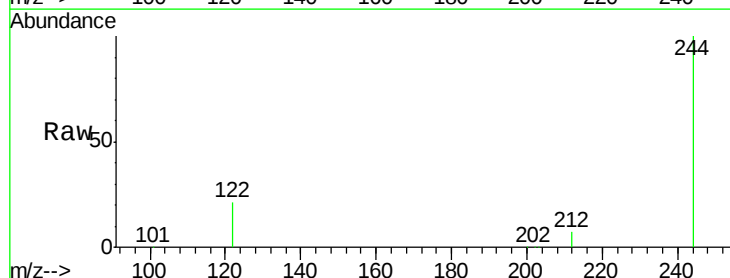
Tgt Ion: 244 Resp: 351803

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

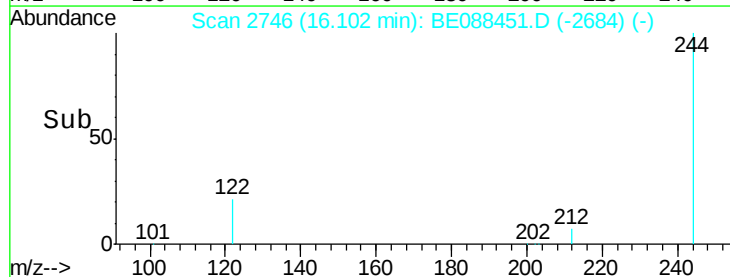
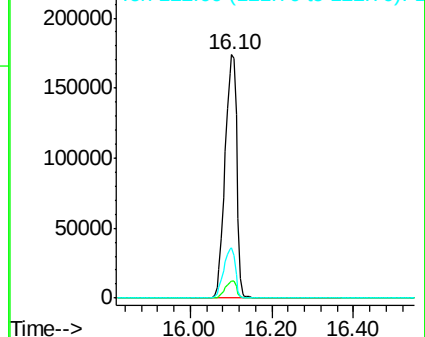
122 20.7 15.6 23.4

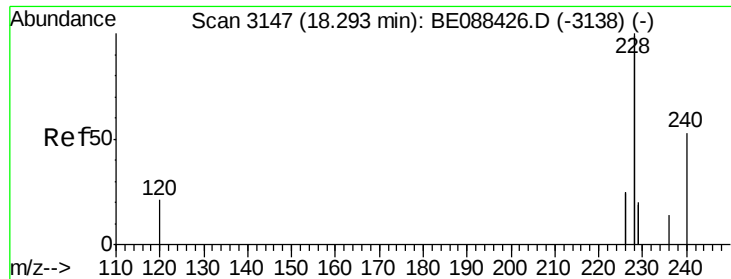


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 1.13 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

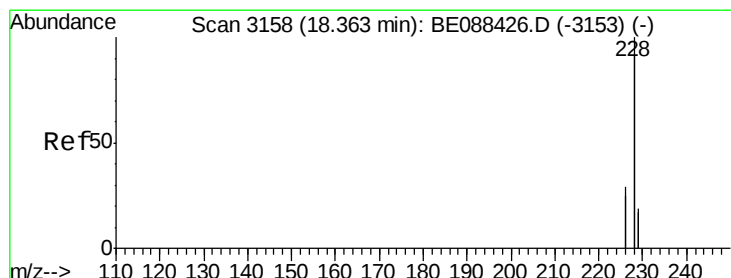
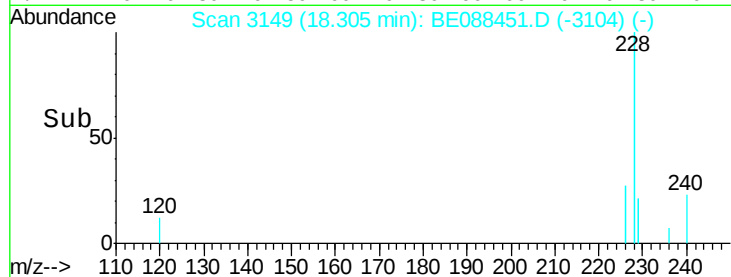
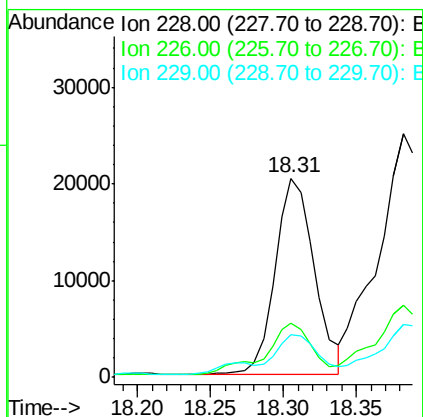
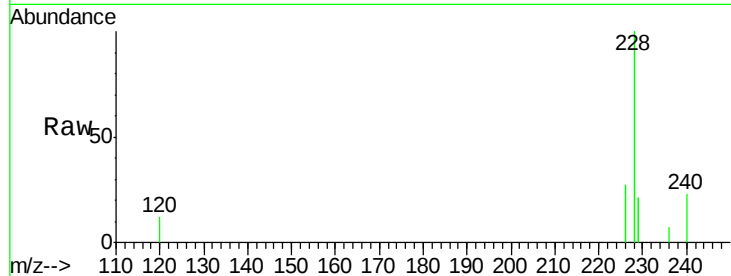
Tgt Ion:228 Resp: 37907

Ion Ratio Lower Upper

228 100

226 27.1 19.8 29.6

229 21.4 16.0 24.0



#20

Chrysene

Concen: 1.67 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

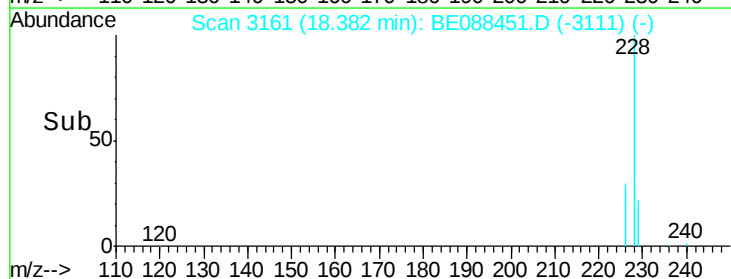
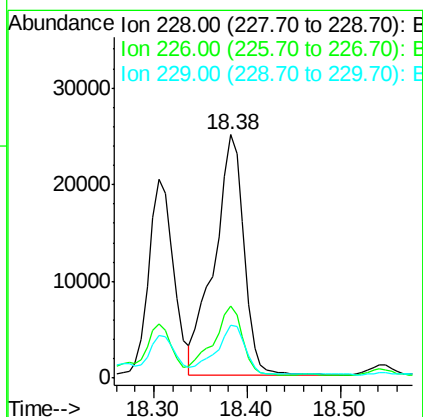
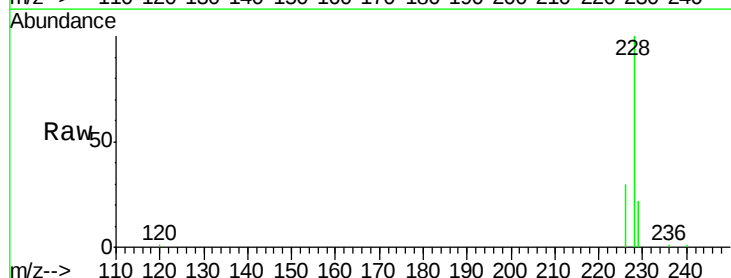
Tgt Ion:228 Resp: 54921

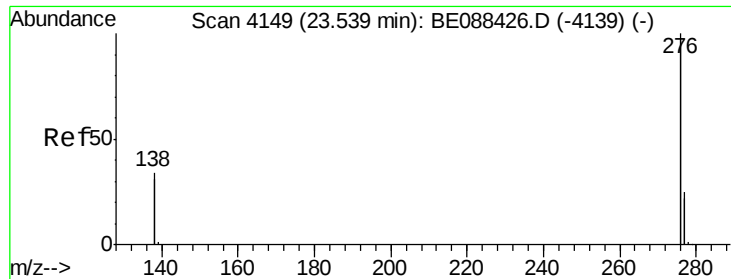
Ion Ratio Lower Upper

228 100

226 29.5 23.6 35.4

229 21.6 15.4 23.2





#21

Indeno(1,2,3-cd)pyrene

Concen: 1.74 ng

RT: 23.57 min Scan# 4154

Delta R.T. 0.03 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

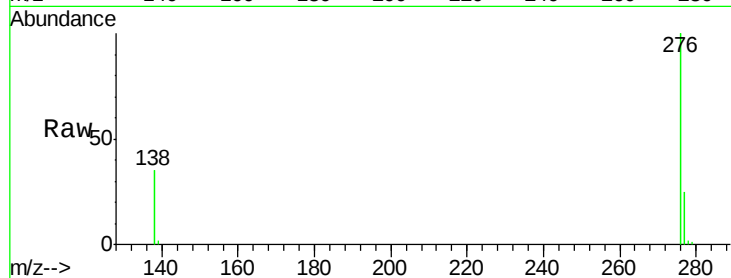
Tgt Ion:276 Resp: 53231

Ion Ratio Lower Upper

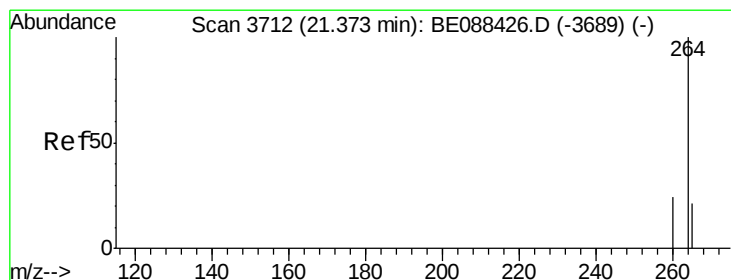
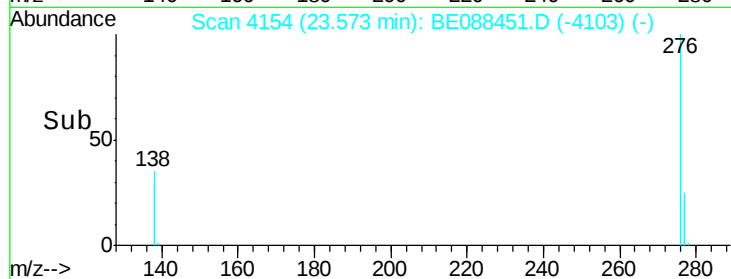
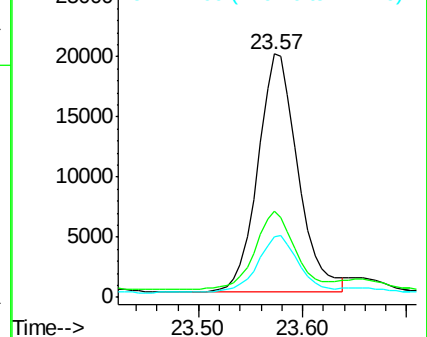
276 100

138 32.1 20.2 30.2#

277 23.9 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. 0.02 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

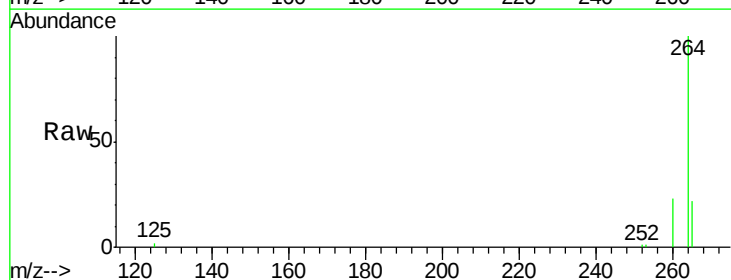
Tgt Ion:264 Resp: 33888

Ion Ratio Lower Upper

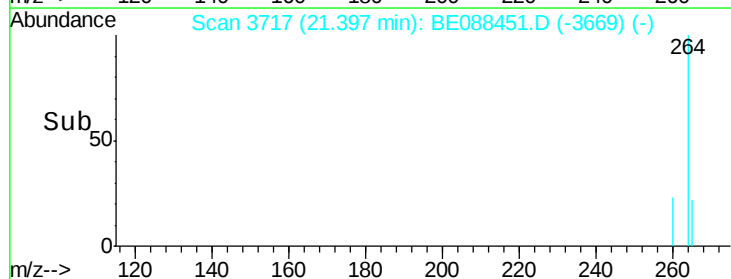
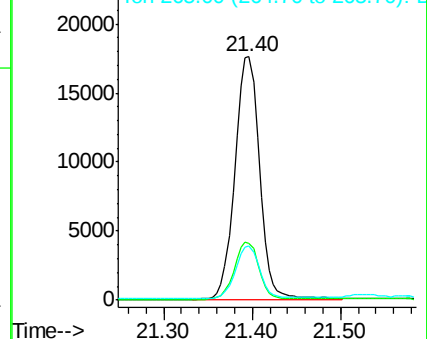
264 100

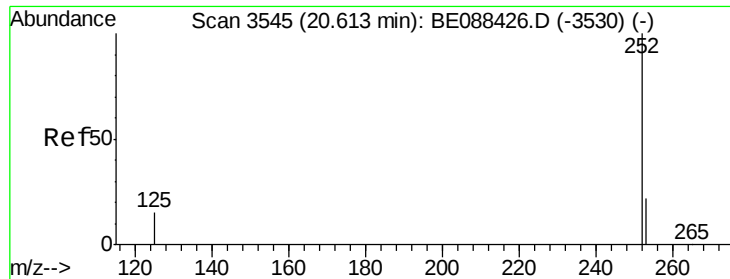
260 23.4 18.9 28.3

265 22.4 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: 3.44 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.02 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

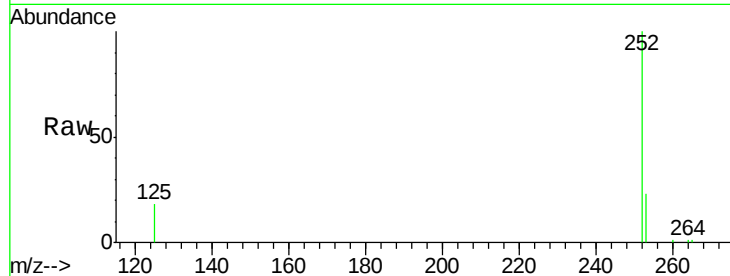
Tgt Ion:252 Resp: 25560

Ion Ratio Lower Upper

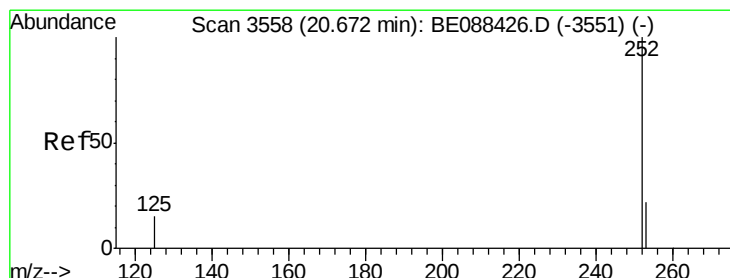
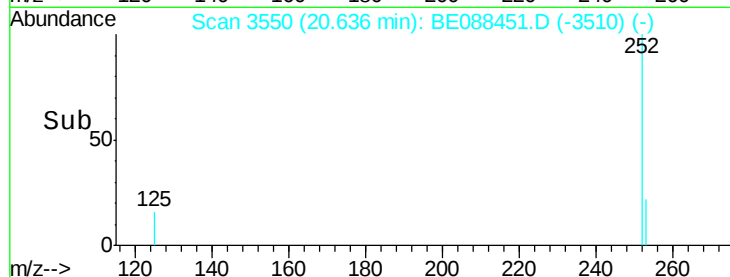
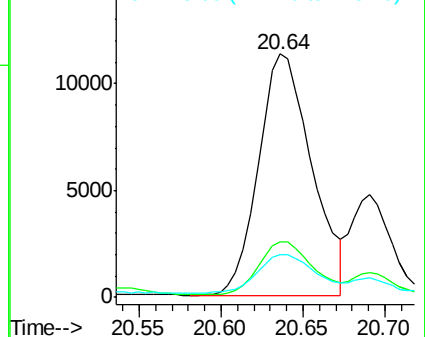
252 100

253 22.8 17.8 26.8

125 17.8 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: 3.12 ng

RT: 20.64 min Scan# 3550

Delta R.T. -0.04 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

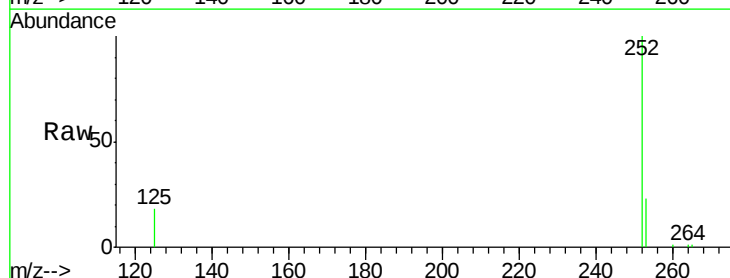
Tgt Ion:252 Resp: 25560

Ion Ratio Lower Upper

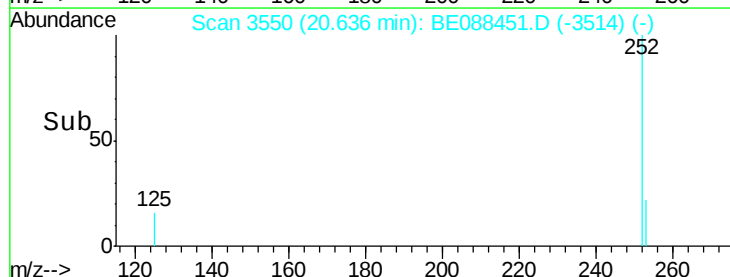
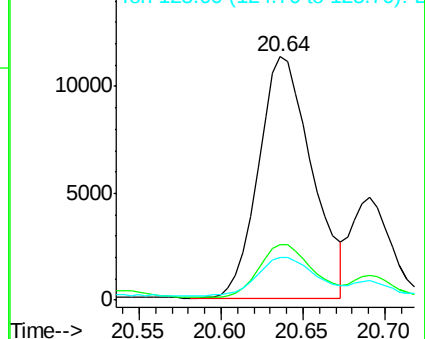
252 100

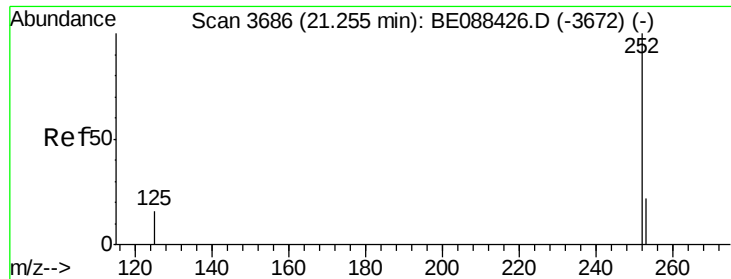
253 22.8 17.8 26.8

125 17.8 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: 1.92 ng

RT: 21.28 min Scan# 3691

Delta R.T. 0.02 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014

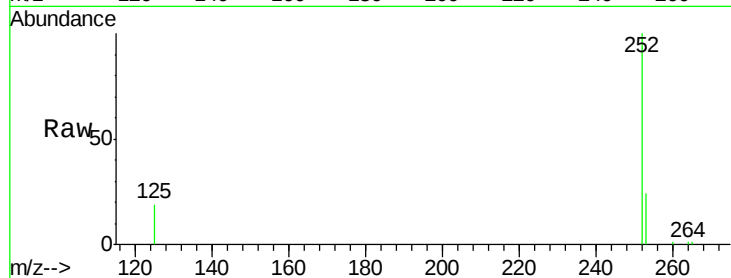
Tgt Ion: 252 Resp: 13664

Ion Ratio Lower Upper

252 100

253 24.1 18.2 27.4

125 18.9 13.7 20.5

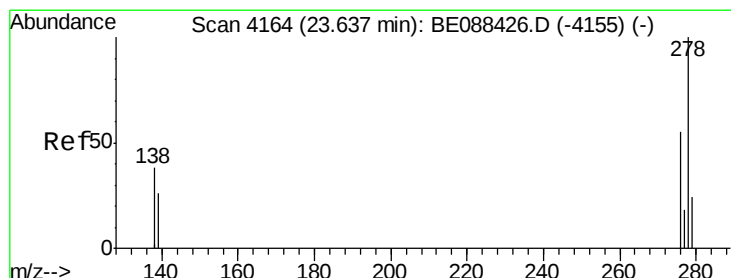
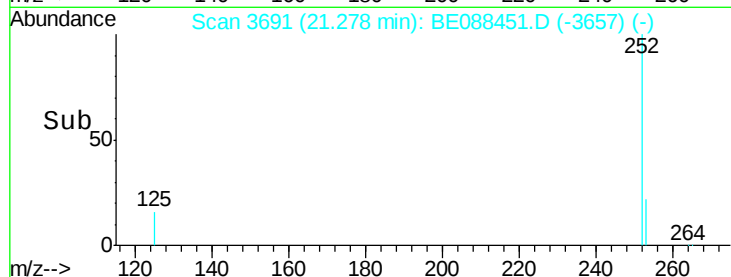
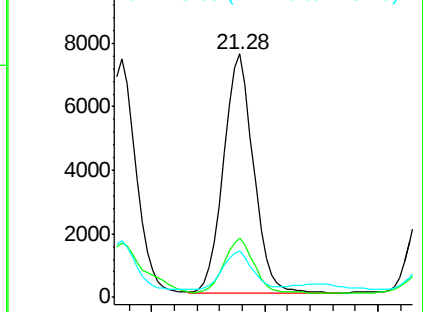


Abundance

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: 0.44 ng

RT: 23.66 min Scan# 4167

Delta R.T. 0.02 min

Lab File: BE088451.D

Acq: 1 Nov 2014 8:05

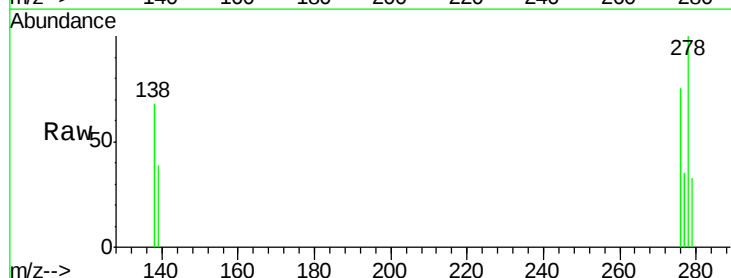
Tgt Ion: 278 Resp: 2889

Ion Ratio Lower Upper

278 100

139 38.7 22.1 33.1#

279 32.7 19.7 29.5#

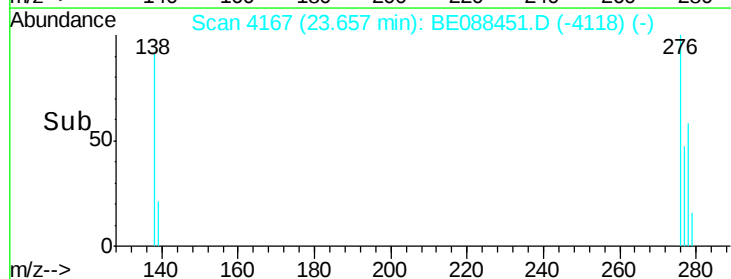
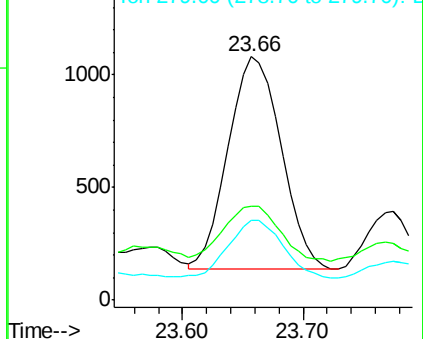


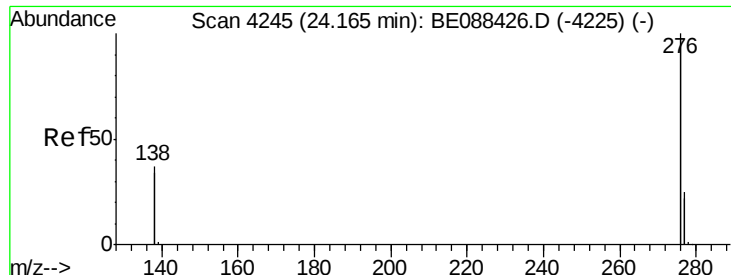
Abundance

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: 1.91 ng

RT: 24.20 min Scan# 4251

Delta R.T. 0.04 min

Lab File: BE088451.D

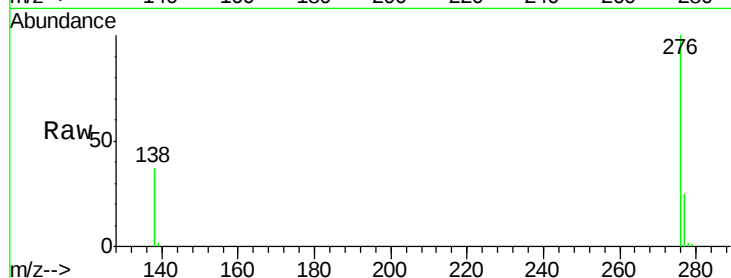
Acq: 1 Nov 2014 8:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS38-1014



Tgt Ion: 276 Resp: 58178

Ion Ratio Lower Upper

276 100

277 24.9 19.8 29.6

138 36.8 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

