

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088447.D
 Acq On : 1 Nov 2014 5:53
 Operator : TP/JJ
 Sample : F4379-01MS
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MS

Quant Time: Nov 01 05:32:10 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	40537	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	141219	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	54262	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	95995	5.00	ng	0.00
16) Chrysene-d12	18.34	240	49077	5.00	ng	0.03
22) Perylene-d12	21.40	264	49342	5.00	ng	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.78	82	90776	8.77	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	132174	8.64	ng	0.00
18) Terphenyl-d14	16.08	244	74048	8.21	ng	0.00

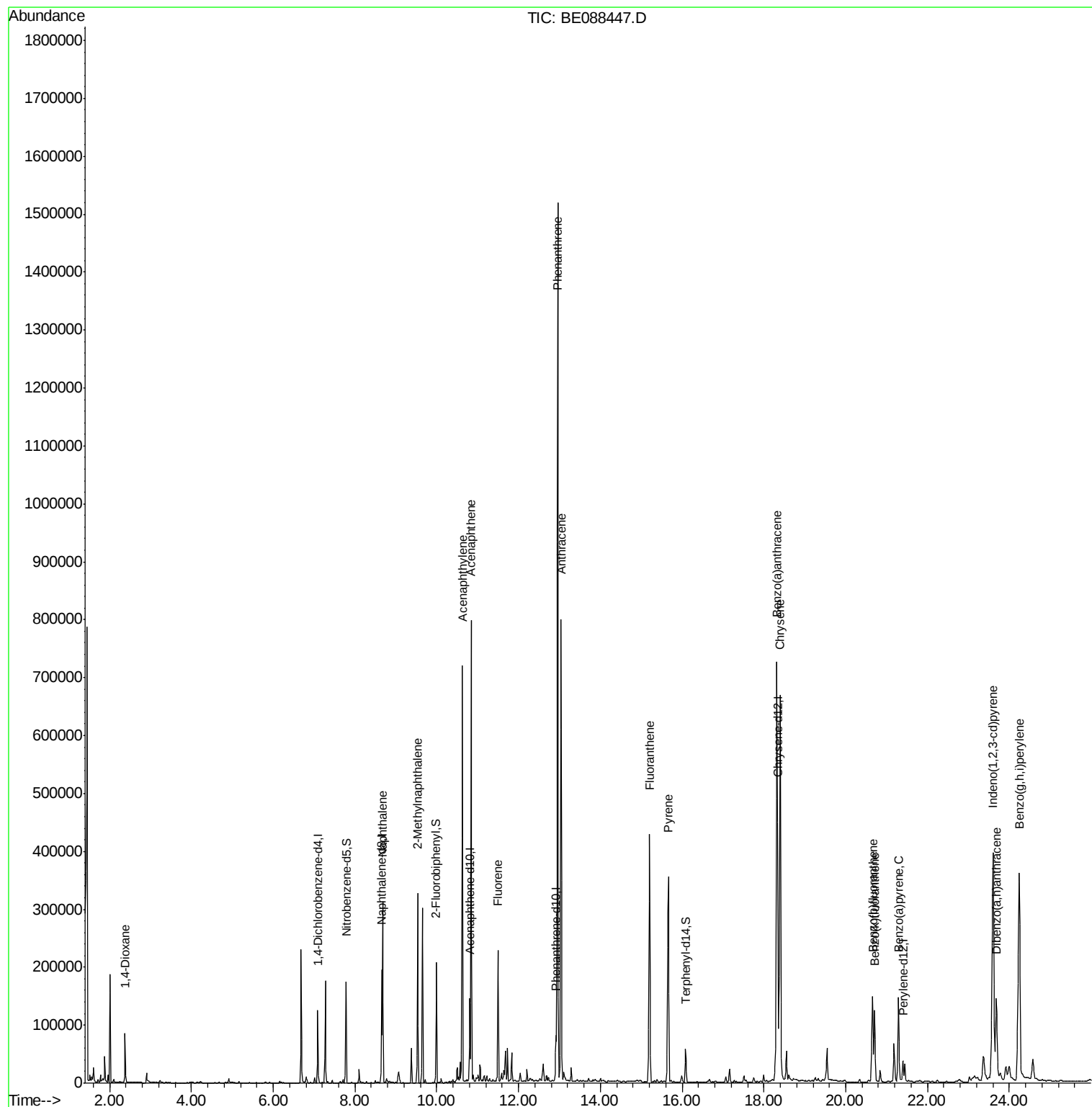
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.38	88	44728	8.43	ng	97
5) Naphthalene	8.68	128	263387	9.01	ng	98
6) 2-Methylnaphthalene	9.53	142	151489	8.37	ng	98
9) Acenaphthylene	10.63	152	695790	7.92	ng	99
10) Acenaphthene	10.84	154	113591	8.72	ng	99
11) Fluorene	11.50	166	124974	9.04	ng	99
13) Phenanthrene	12.96	178	2094157	24.01	ng	100
14) Anthracene	13.04	178	783500	11.12	ng	97
15) Fluoranthene	15.21	202	460343	32.51	ng	99
17) Pyrene	15.66	202	403525	25.21	ng	96
19) Benzo(a)anthracene	18.32	228	1010415	21.87	ng	98
20) Chrysene	18.40	228	901300	19.87	ng	98
21) Indeno(1,2,3-cd)pyrene	23.60	276	717869	16.99	ng	# 87
23) Benzo(b)fluoranthene	20.65	252	267157	24.69	ng	100
24) Benzo(k)fluoranthene	20.70	252	164904	13.84	ng	99
25) Benzo(a)pyrene	21.29	252	208423	20.06	ng	99
26) Dibenzo(a,h)anthracene	23.69	278	110660	11.47	ng	97
27) Benzo(g,h,i)perylene	24.24	276	751308	16.98	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: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

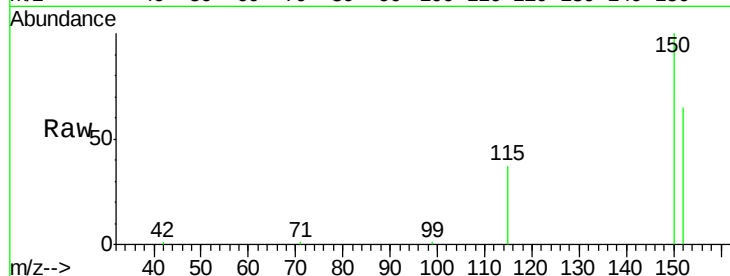
Tgt Ion:152 Resp: 40537

Ion Ratio Lower Upper

152 100

150 154.8 121.8 182.8

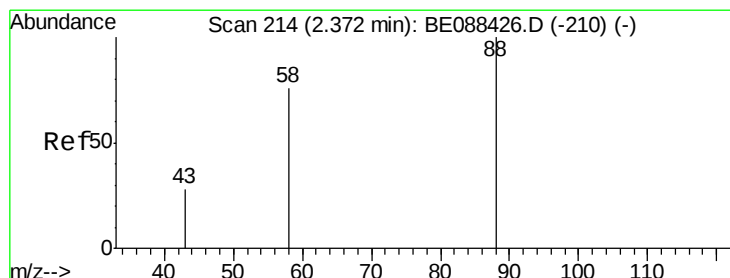
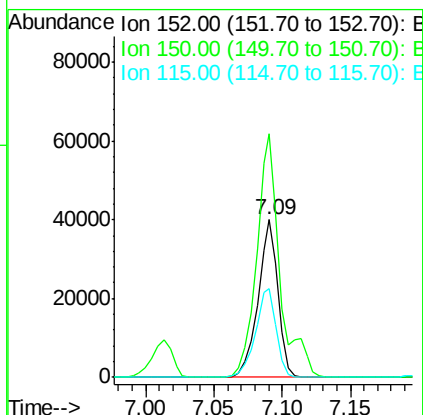
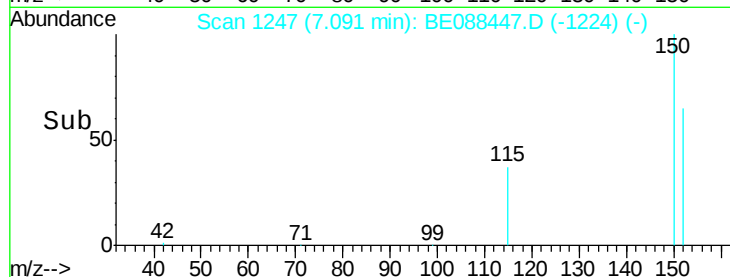
115 56.7 43.9 65.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 8.43 ng

RT: 2.38 min Scan# 216

Delta R.T. 0.01 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

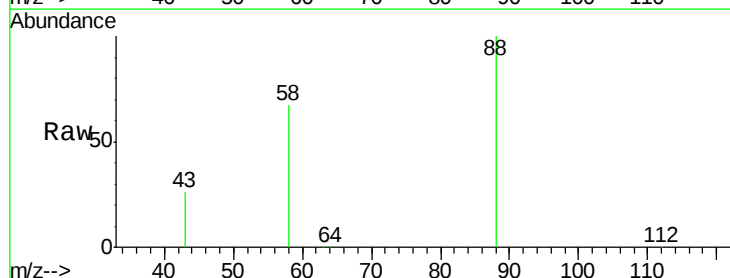
Tgt Ion: 88 Resp: 44728

Ion Ratio Lower Upper

88 100

58 75.2 59.1 88.7

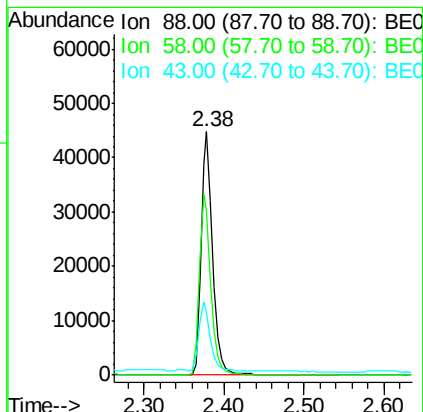
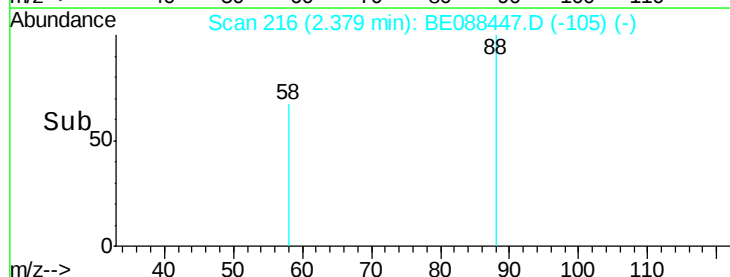
43 30.8 21.9 32.9

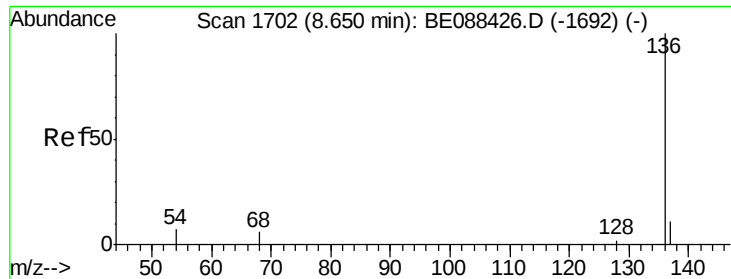


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

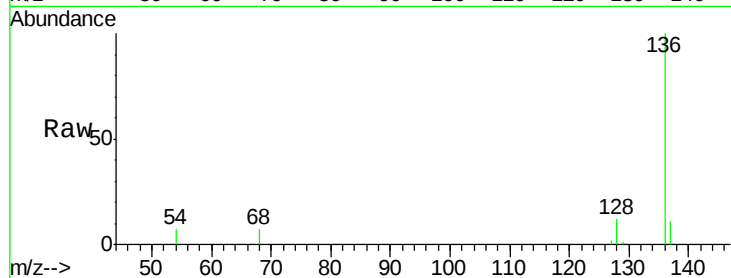




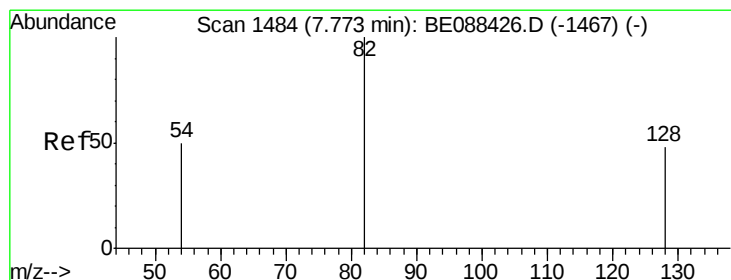
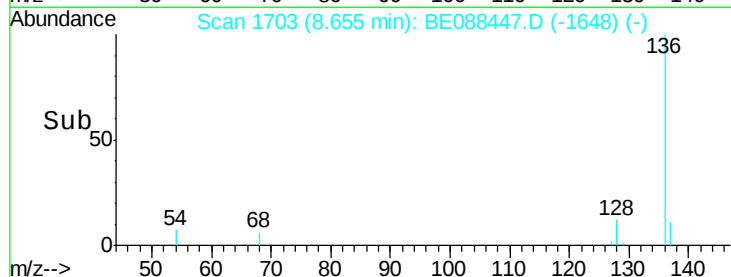
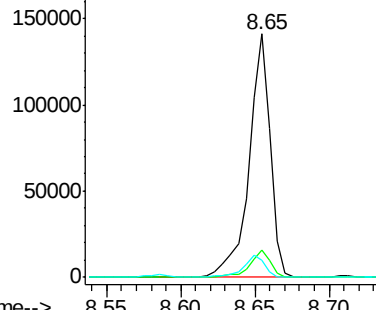
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1703
Delta R.T. 0.00 min
Lab File: BE088447.D
Acq: 1 Nov 2014 5:53

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014MS

Tgt Ion: 136 Resp: 141219
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 7.0 5.3 7.9

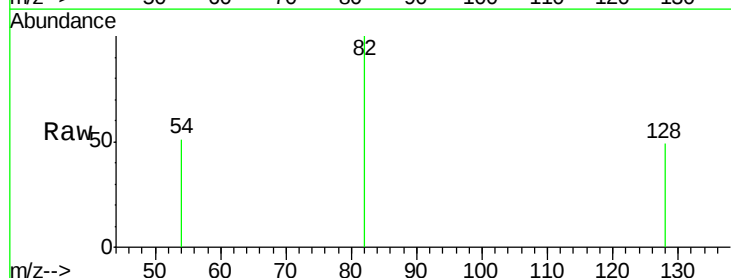


Abundance Ion 136.00 (135.70 to 136.70): BE088447.D (-1648) (-)
Ion 137.00 (136.70 to 137.70): BE088447.D (-1648) (-)
Ion 54.00 (53.70 to 54.70): BE088447.D (-1648) (-)

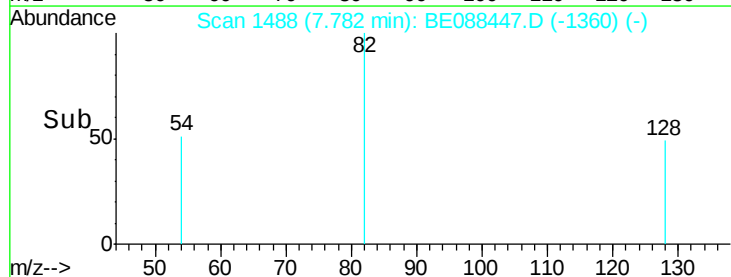
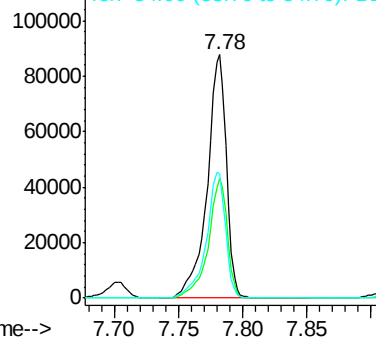


#4
Nitrobenzene-d5
Concen: 8.77 ng
RT: 7.78 min Scan# 1488
Delta R.T. 0.01 min
Lab File: BE088447.D
Acq: 1 Nov 2014 5:53

Tgt Ion: 82 Resp: 90776
Ion Ratio Lower Upper
82 100
128 48.9 38.4 57.6
54 51.2 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): BE088447.D (-1360) (-)
Ion 128.00 (127.70 to 128.70): BE088447.D (-1360) (-)
Ion 54.00 (53.70 to 54.70): BE088447.D (-1360) (-)





#5

Naphthalene

Concen: 9.01 ng

RT: 8.68 min Scan# 1708

Delta R.T. 0.01 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

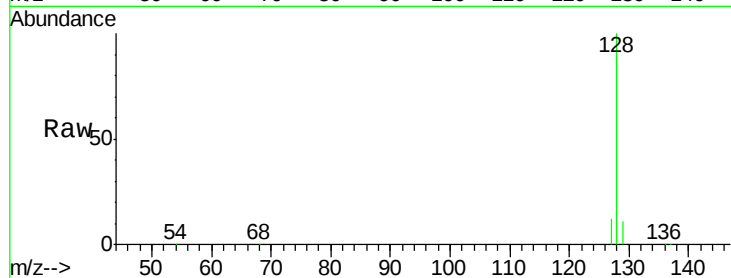
Tgt Ion:128 Resp: 263387

Ion Ratio Lower Upper

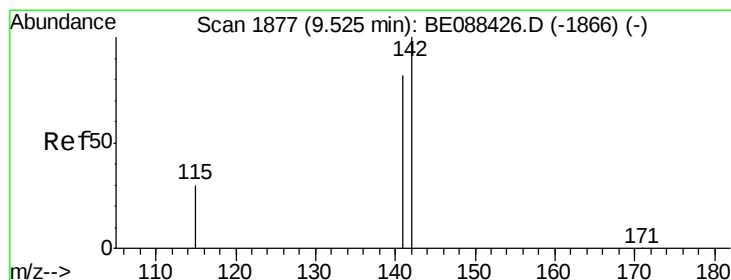
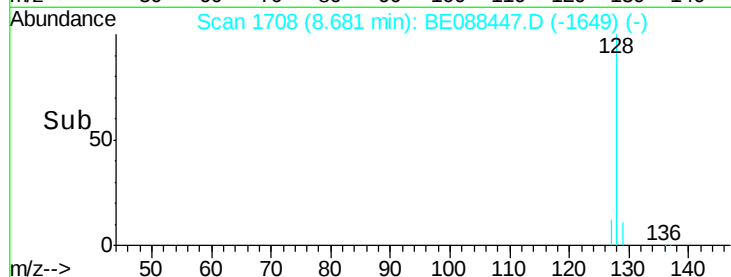
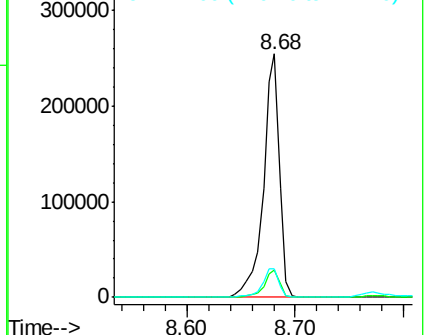
128 100

129 11.1 8.6 12.8

127 11.9 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: 8.37 ng

RT: 9.53 min Scan# 1878

Delta R.T. 0.01 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

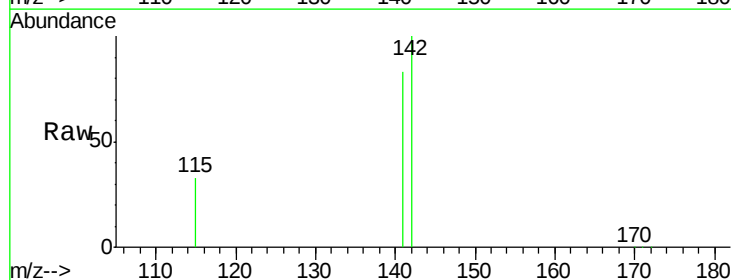
Tgt Ion:142 Resp: 151489

Ion Ratio Lower Upper

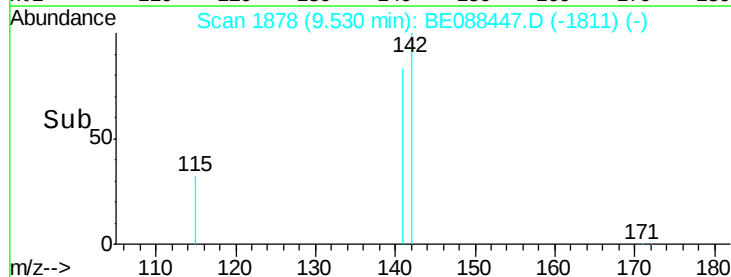
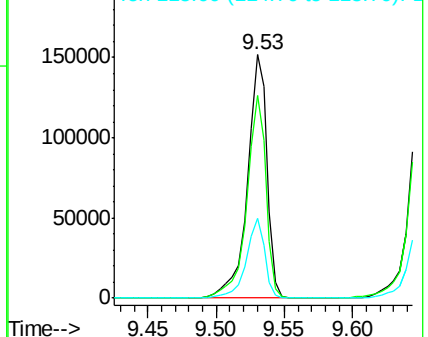
142 100

141 83.4 65.8 98.8

115 32.6 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# 2110

Delta R.T. 0.01 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

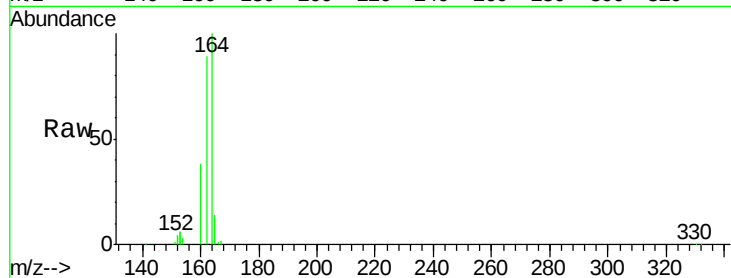
Tgt Ion:164 Resp: 54262

Ion Ratio Lower Upper

164 100

162 89.2 77.0 115.4

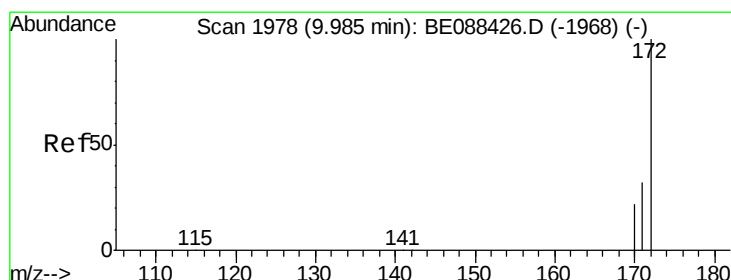
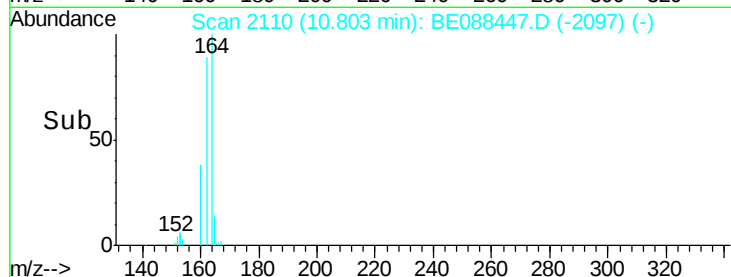
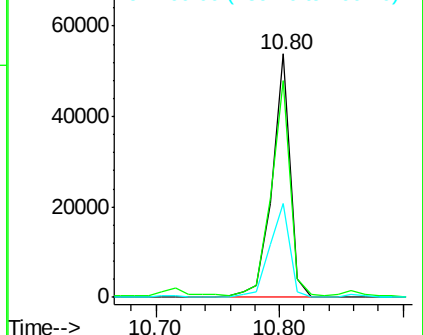
160 38.5 36.8 55.2



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: 8.64 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.01 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

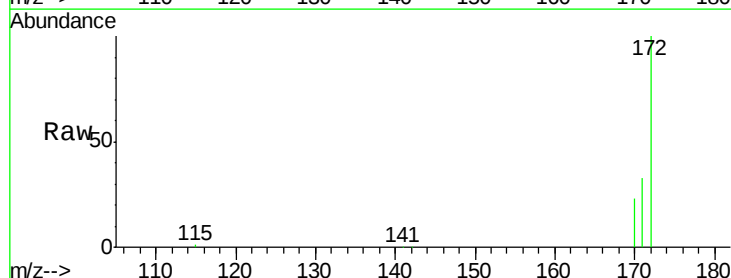
Tgt Ion:172 Resp: 132174

Ion Ratio Lower Upper

172 100

171 33.1 26.0 39.0

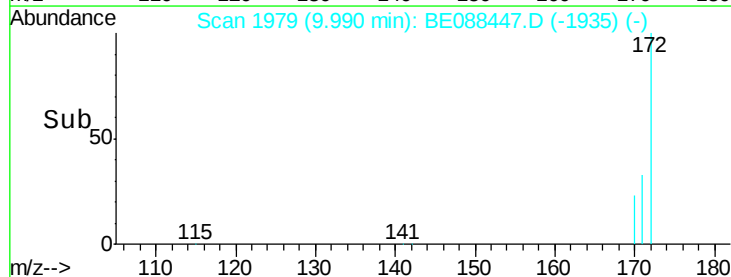
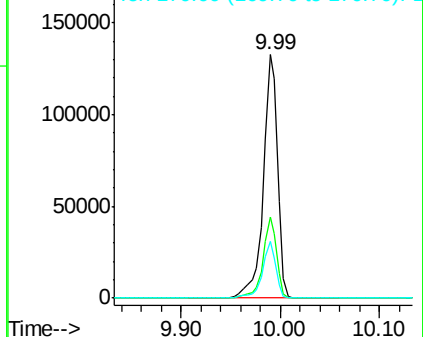
170 23.2 17.6 26.4



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: 7.92 ng

RT: 10.63 min Scan# 2094

Delta R.T. 0.01 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

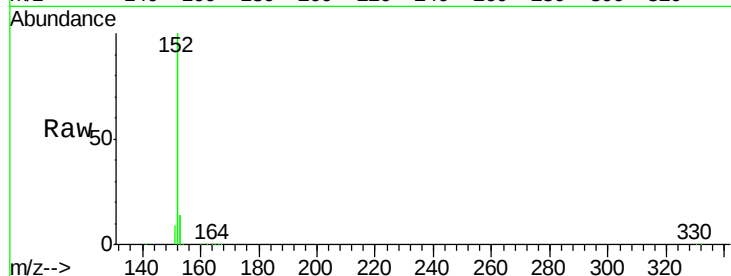
Tgt Ion:152 Resp: 695790

Ion Ratio Lower Upper

152 100

151 4.7 4.4 6.6

153 13.1 10.5 15.7



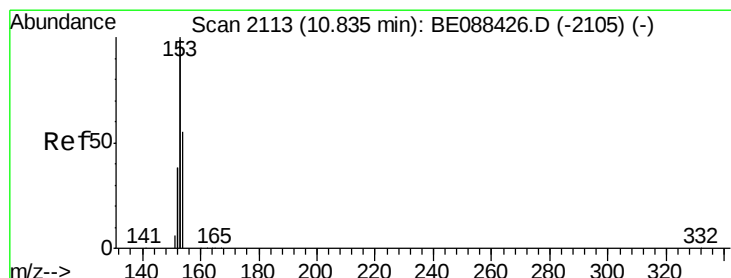
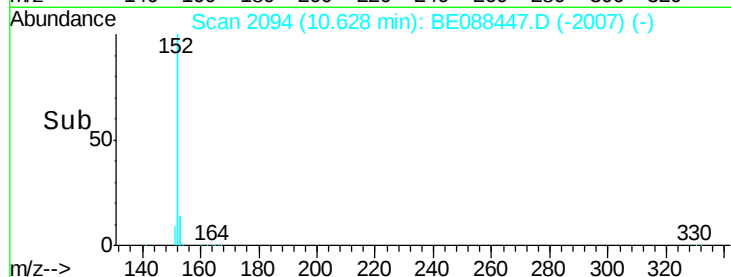
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

10.63

Time-->



#10

Acenaphthene

Concen: 8.72 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

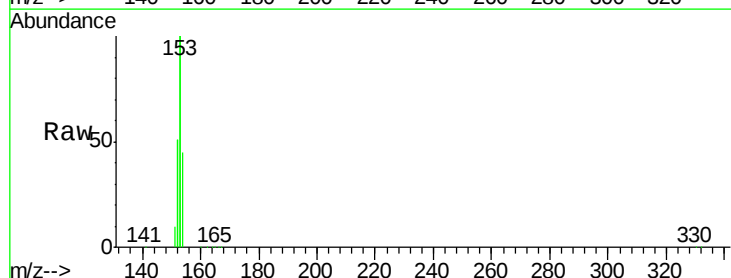
Tgt Ion:154 Resp: 113591

Ion Ratio Lower Upper

154 100

153 406.0 324.3 486.5

152 196.9 154.9 232.3



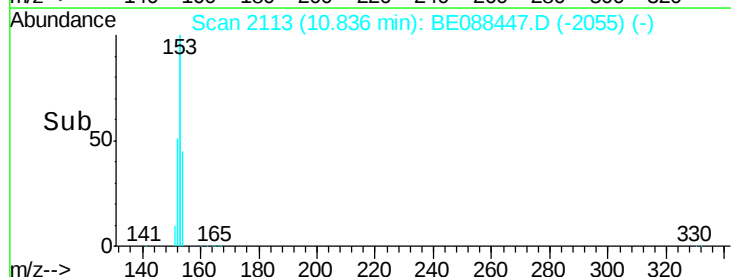
Abundance Ion 154.00 (153.70 to 154.70): E

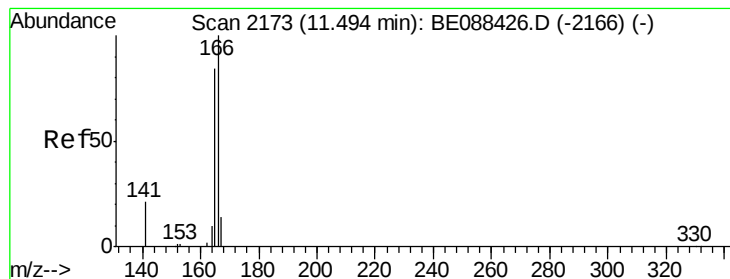
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

10.84

Time-->





#11

Fluorene

Concen: 9.04 ng

RT: 11.50 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

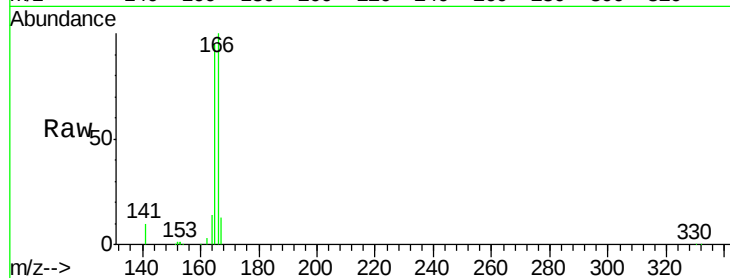
Tgt Ion:166 Resp: 124974

Ion Ratio Lower Upper

166 100

165 90.2 71.3 106.9

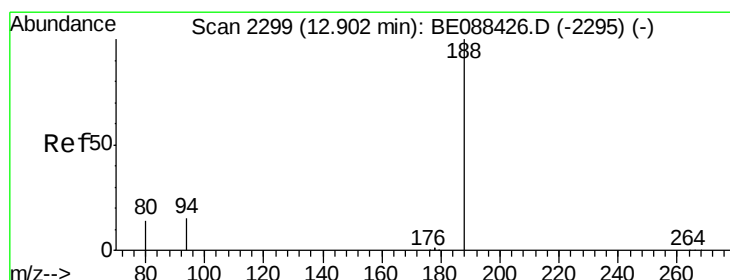
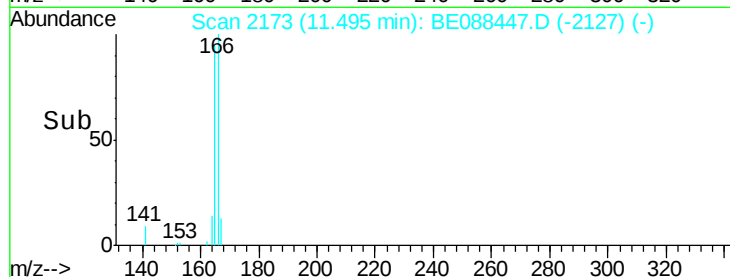
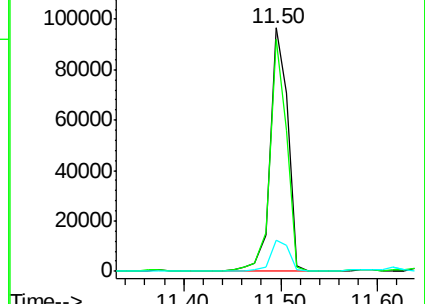
167 13.5 10.7 16.1



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: BE088447.D

Acq: 1 Nov 2014 5:53

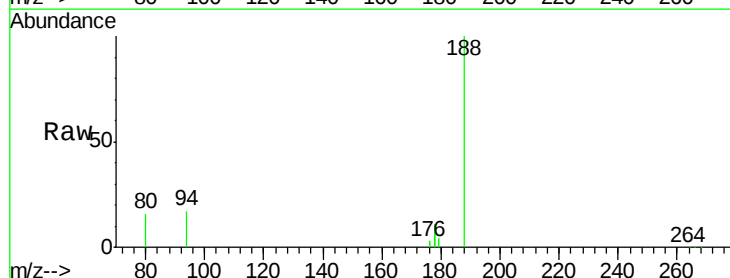
Tgt Ion:188 Resp: 95995

Ion Ratio Lower Upper

188 100

94 16.5 11.8 17.8

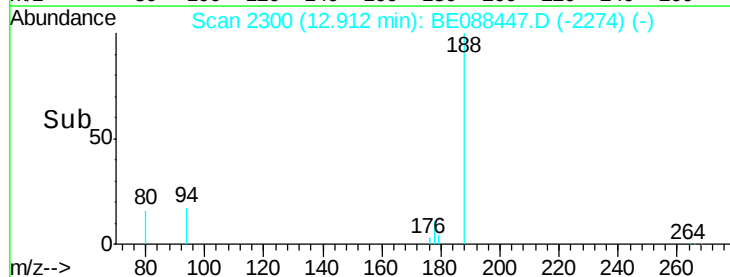
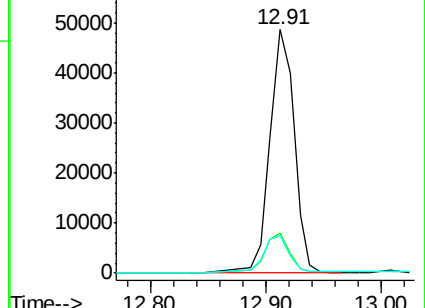
80 15.6 10.9 16.3

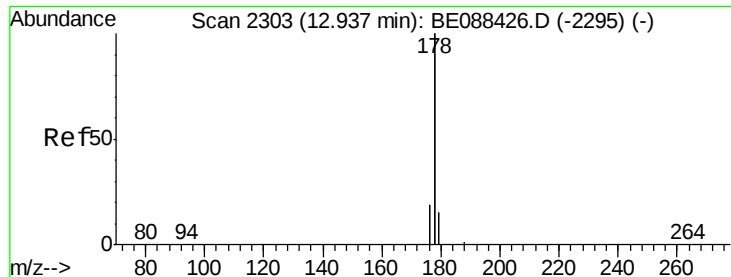


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 24.01 ng

RT: 12.96 min Scan# 2305

Delta R.T. 0.02 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

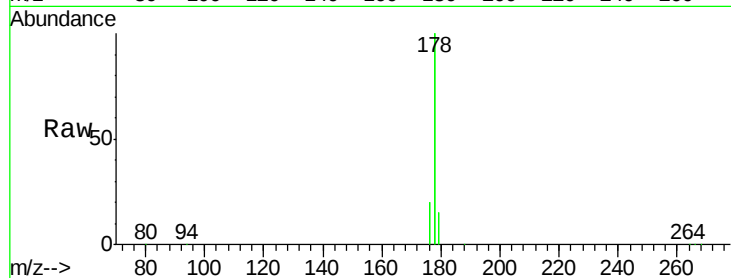
Tgt Ion:178 Resp: 2094157

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

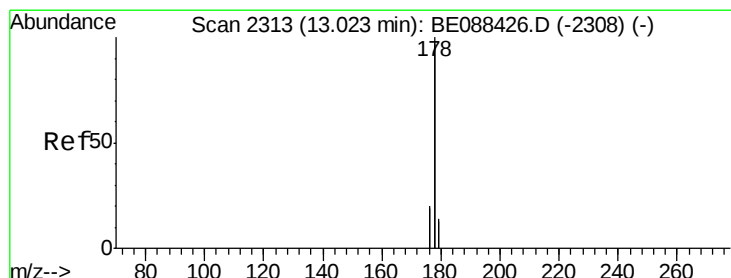
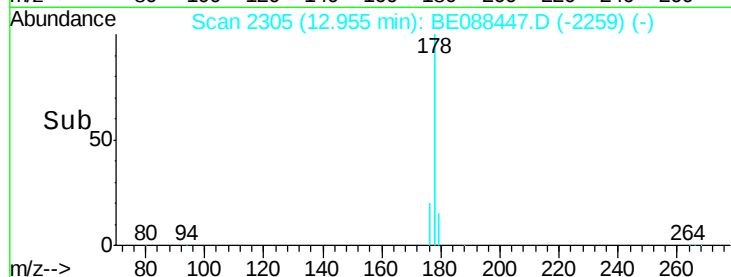
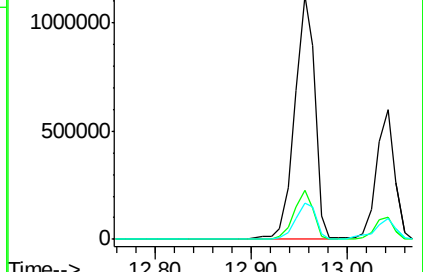
179 15.8 12.8 19.2



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: 11.12 ng

RT: 13.04 min Scan# 2315

Delta R.T. 0.02 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

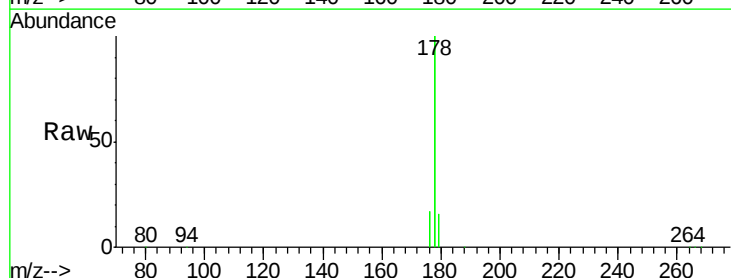
Tgt Ion:178 Resp: 783500

Ion Ratio Lower Upper

178 100

176 18.2 15.0 22.4

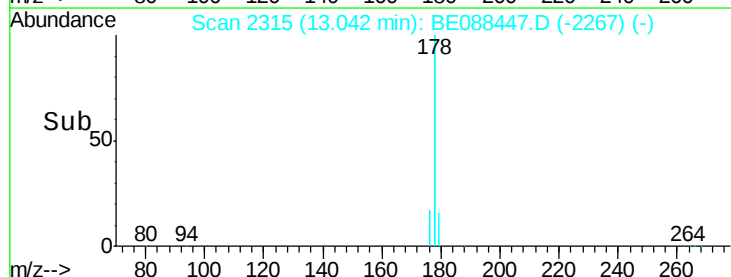
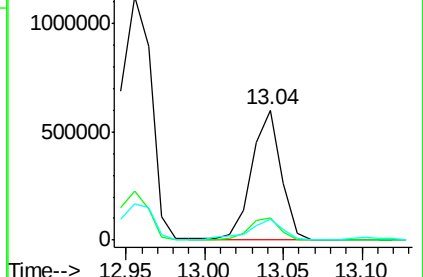
179 17.7 12.5 18.7

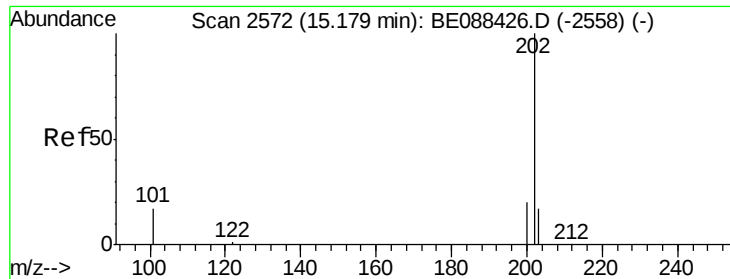


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 32.51 ng

RT: 15.21 min Scan# 2577

Delta R.T. 0.03 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

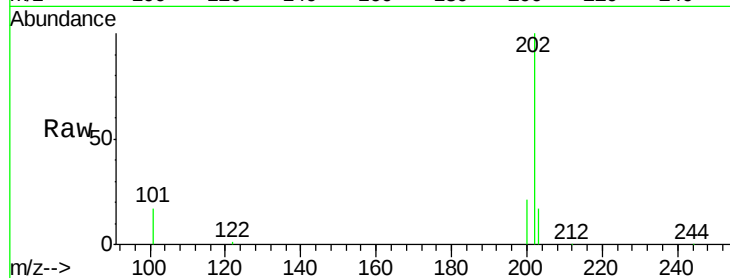
Tgt Ion:202 Resp: 460343

Ion Ratio Lower Upper

202 100

101 17.2 14.3 21.5

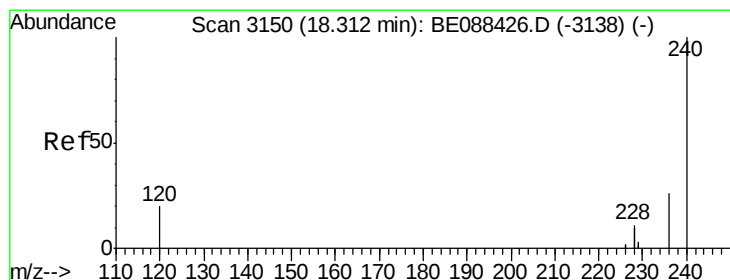
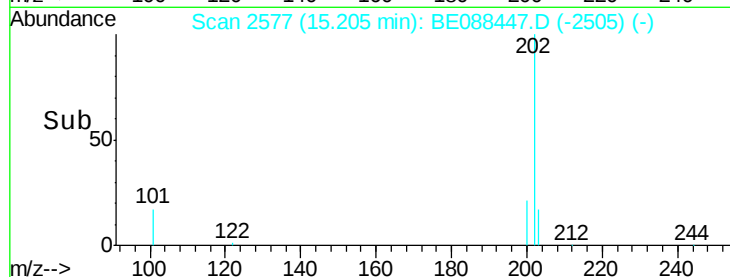
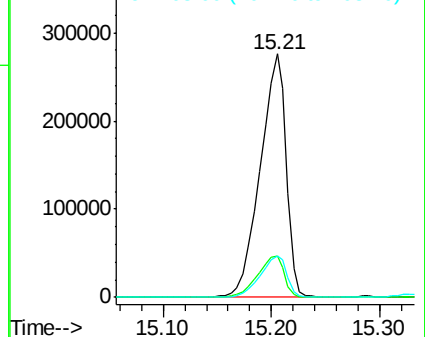
203 17.4 13.6 20.4



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: 18.34 min Scan# 3154

Delta R.T. 0.03 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

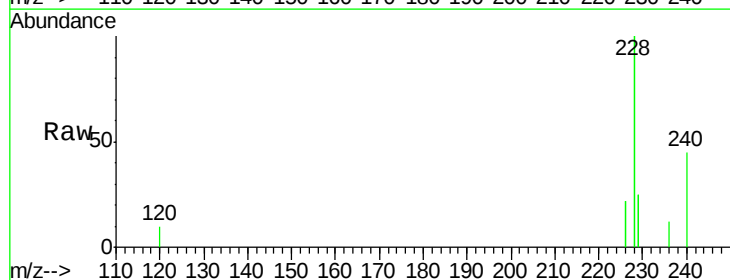
Tgt Ion:240 Resp: 49077

Ion Ratio Lower Upper

240 100

120 20.9 16.4 24.6

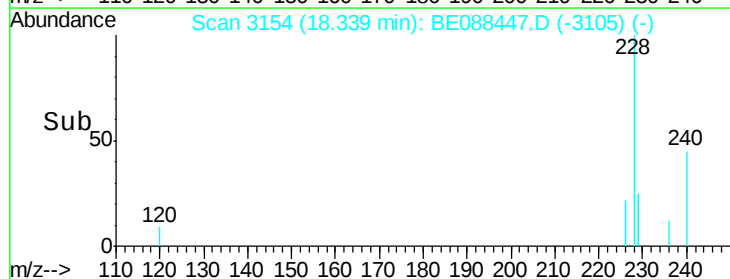
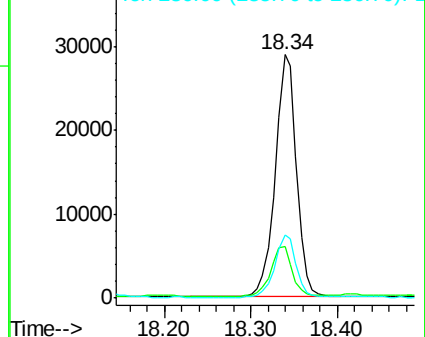
236 26.0 20.5 30.7

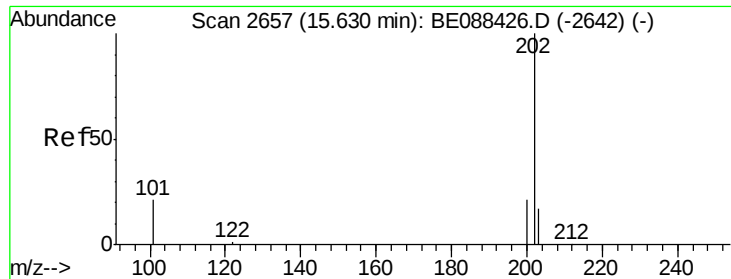


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

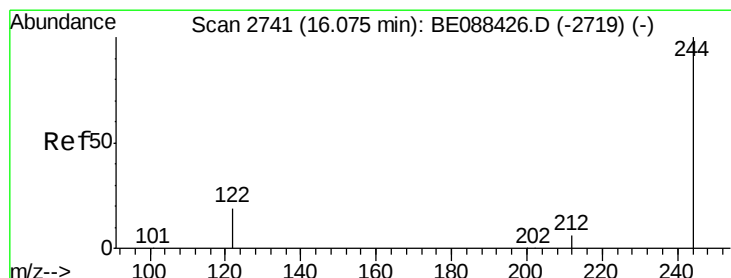
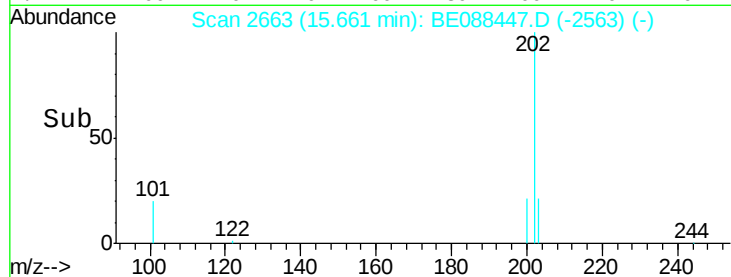
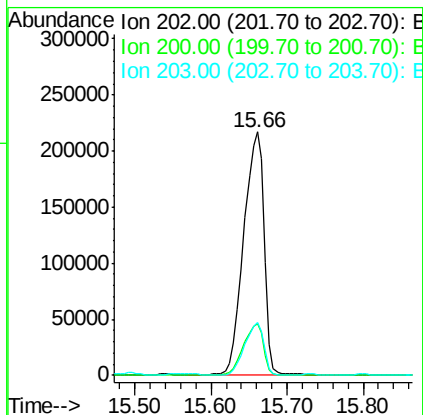
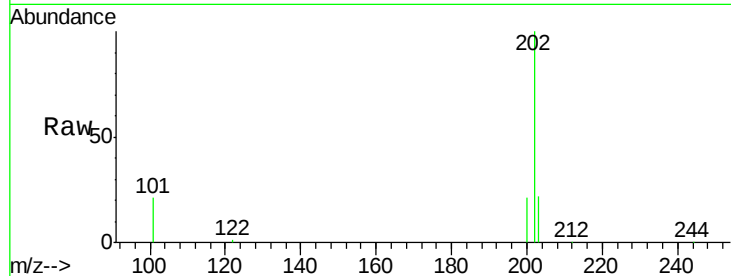




#17
Pyrene
 Concen: 25.21 ng
 RT: 15.66 min Scan# 2663
 Delta R.T. 0.03 min
 Lab File: BE088447.D
 Acq: 1 Nov 2014 5:53

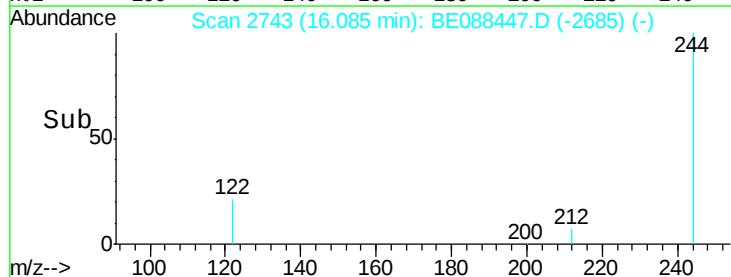
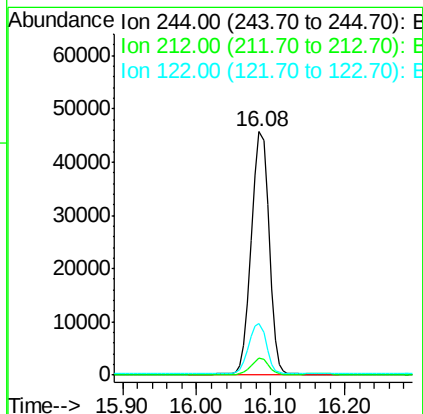
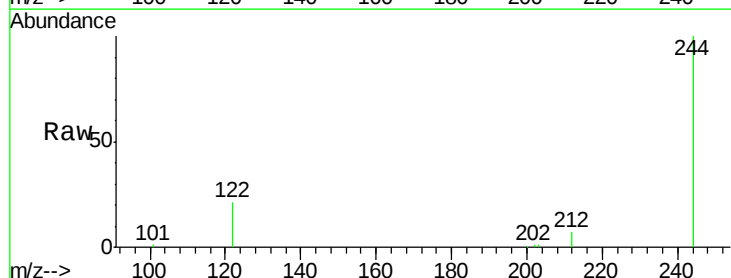
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MS

Tgt Ion: 202 Resp: 403525
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.1 24.1
 203 20.1 13.8 20.8



#18
Terphenyl-d14
 Concen: 8.21 ng
 RT: 16.08 min Scan# 2743
 Delta R.T. 0.01 min
 Lab File: BE088447.D
 Acq: 1 Nov 2014 5:53

Tgt Ion: 244 Resp: 74048
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 21.4 15.6 23.4





#19

Benzo(a)anthracene

Concen: 21.87 ng

RT: 18.32 min Scan# 3151

Delta R.T. 0.03 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

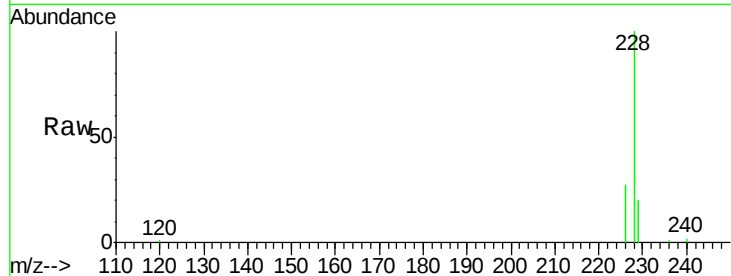
Tgt Ion:228 Resp: 1010415

Ion Ratio Lower Upper

228 100

226 26.5 19.8 29.6

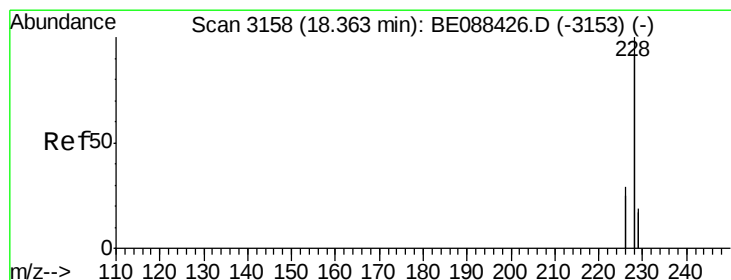
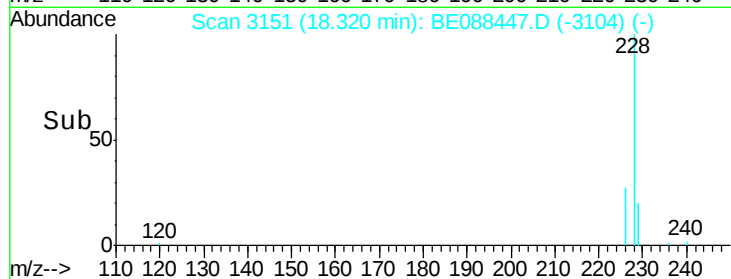
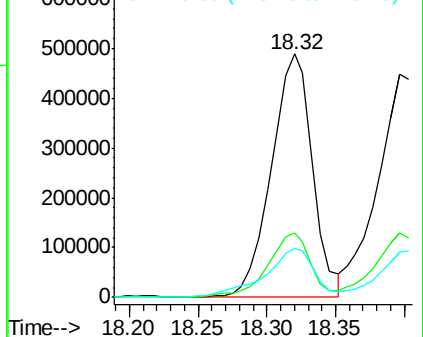
229 20.0 16.0 24.0



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: 19.87 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.03 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

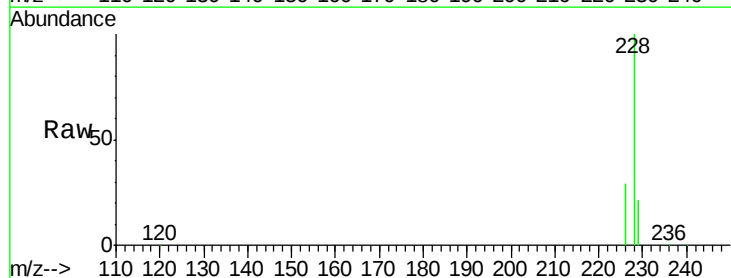
Tgt Ion:228 Resp: 901300

Ion Ratio Lower Upper

228 100

226 29.1 23.6 35.4

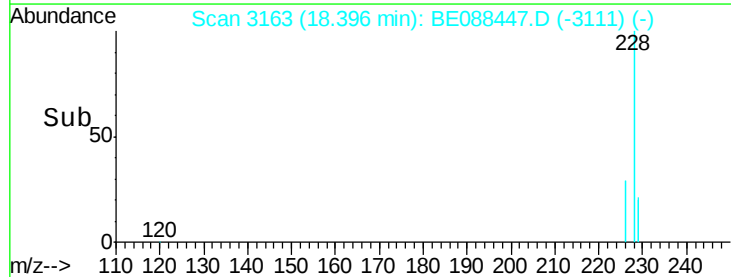
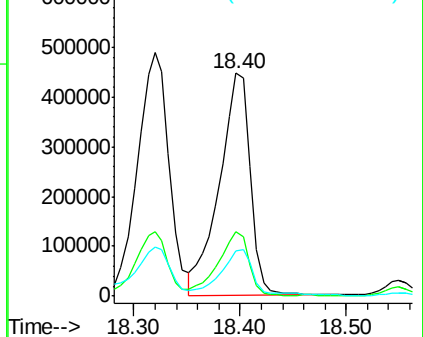
229 20.5 15.4 23.2

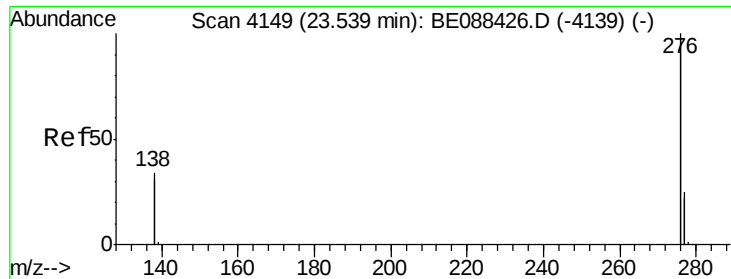


Abundance Ion 228.00 (227.70 to 228.70): E

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: 16.99 ng

RT: 23.60 min Scan# 4159

Delta R.T. 0.07 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

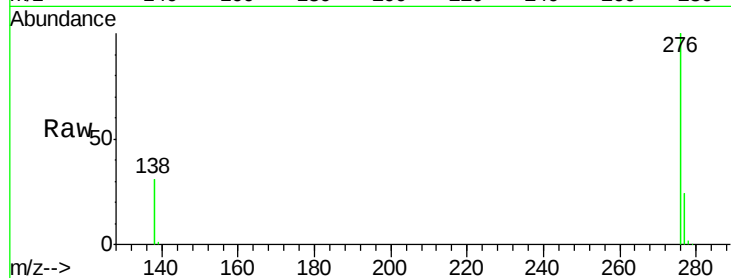
Tgt Ion:276 Resp: 717869

Ion Ratio Lower Upper

276 100

138 31.3 20.2 30.2#

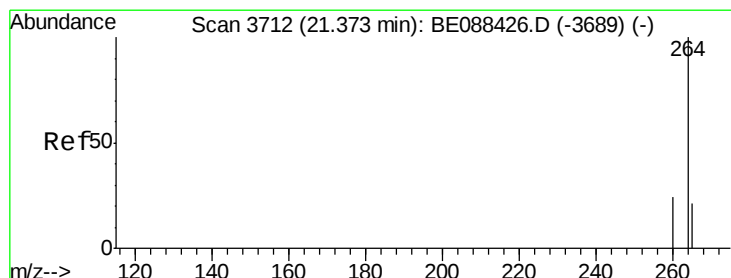
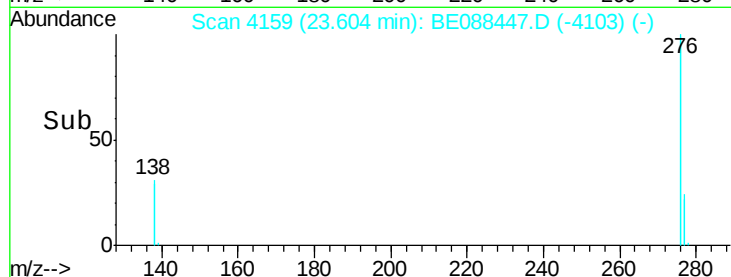
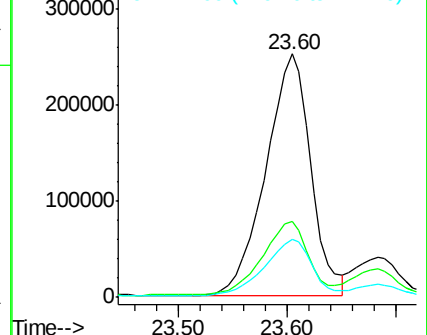
277 24.4 14.8 22.2#



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: BE088447.D

Acq: 1 Nov 2014 5:53

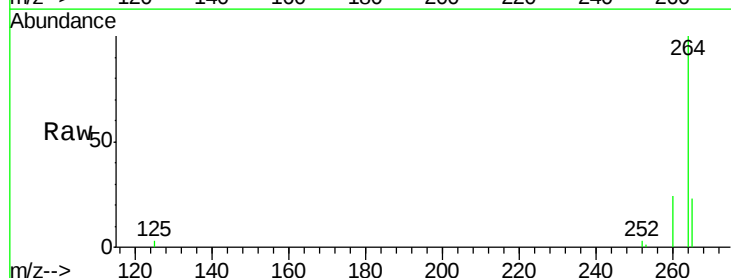
Tgt Ion:264 Resp: 49342

Ion Ratio Lower Upper

264 100

260 23.9 18.9 28.3

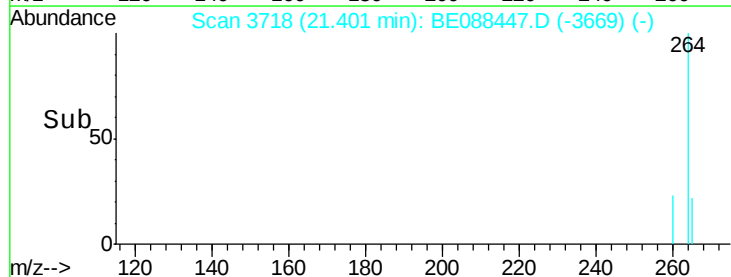
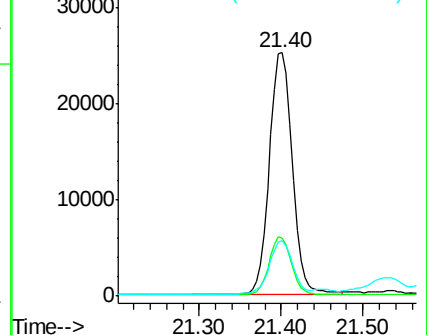
265 22.6 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 24.69 ng

RT: 20.65 min Scan# 3554

Delta R.T. 0.04 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

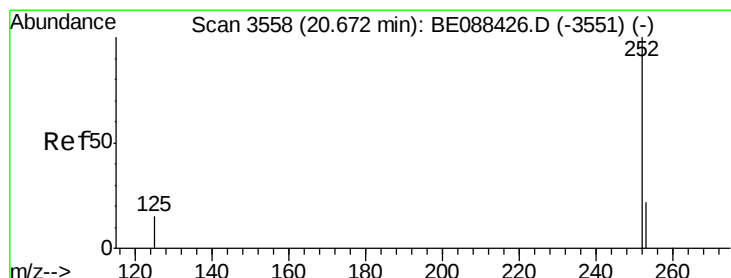
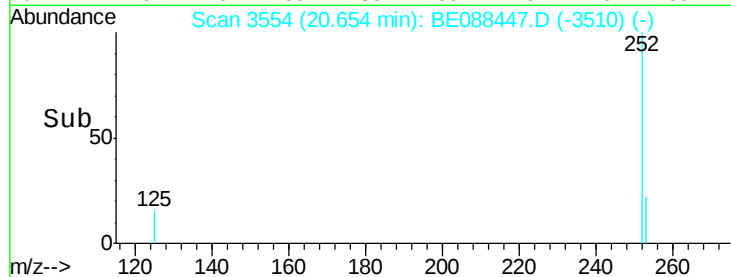
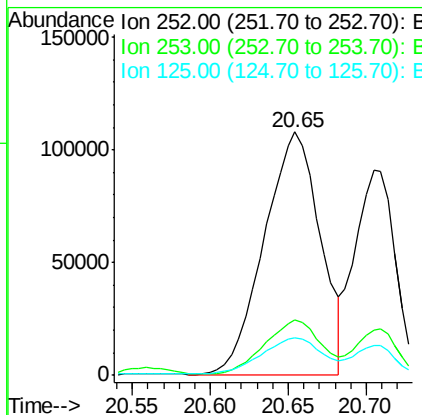
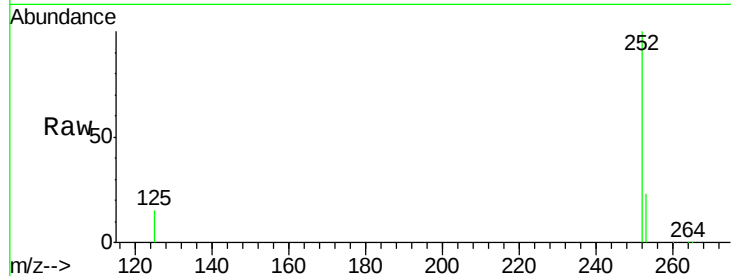
Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

Tgt Ion:	252	Resp:	267157
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.8	26.8
125	15.5	12.3	18.5



#24

Benzo(k)fluoranthene

Concen: 13.84 ng

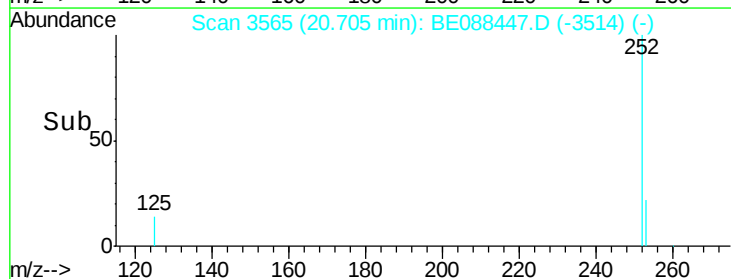
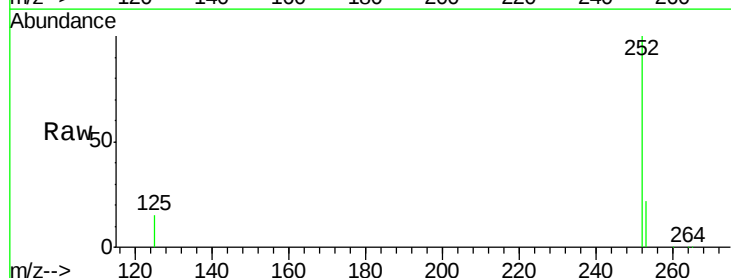
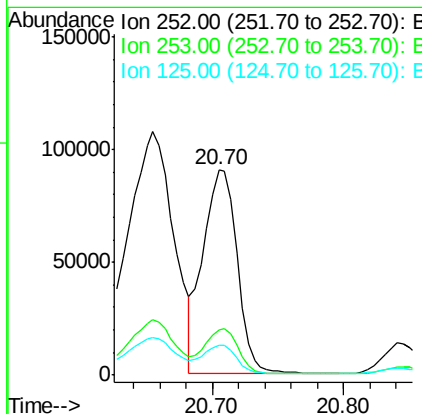
RT: 20.70 min Scan# 3565

Delta R.T. 0.03 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Tgt Ion:	252	Resp:	164904
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.8	26.8
125	14.7	12.2	18.4





#25

Benzo(a)pyrene

Concen: 20.06 ng

RT: 21.29 min Scan# 3694

Delta R.T. 0.04 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS

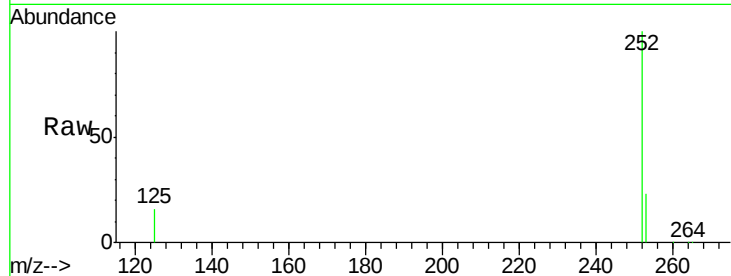
Tgt Ion: 252 Resp: 208423

Ion Ratio Lower Upper

252 100

253 22.6 18.2 27.4

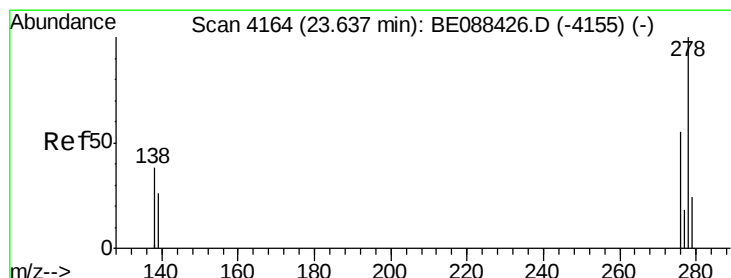
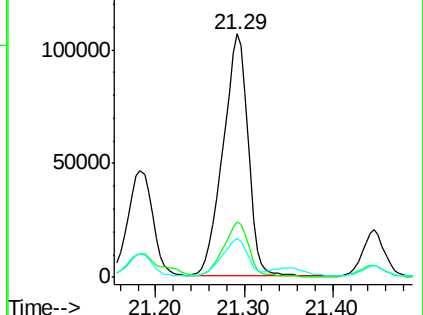
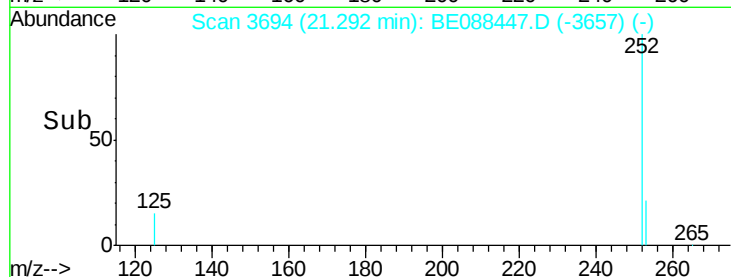
125 15.8 13.7 20.5



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: 11.47 ng

RT: 23.69 min Scan# 4172

Delta R.T. 0.05 min

Lab File: BE088447.D

Acq: 1 Nov 2014 5:53

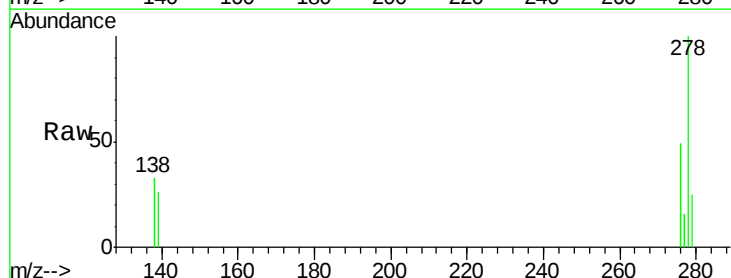
Tgt Ion: 278 Resp: 110660

Ion Ratio Lower Upper

278 100

139 25.8 22.1 33.1

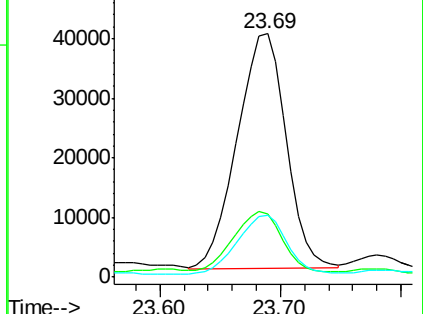
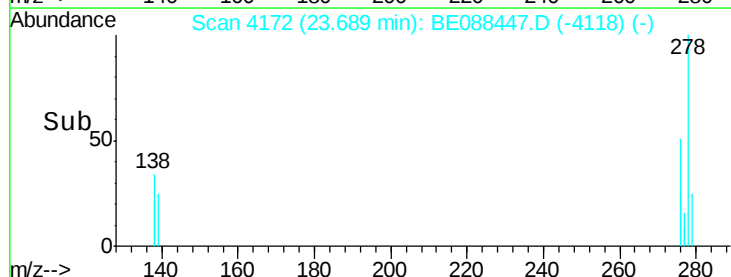
279 25.4 19.7 29.5



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: 16.98 ng

RT: 24.24 min Scan# 4257

Delta R.T. 0.08 min

Lab File: BE088447.D

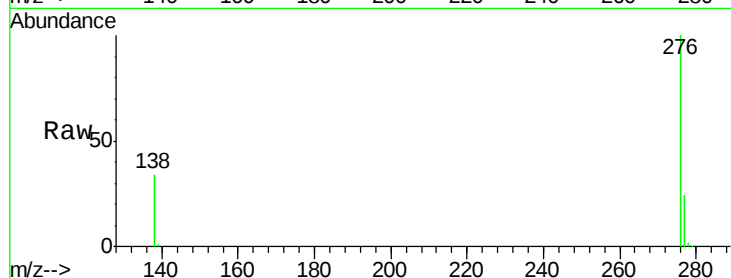
Acq: 1 Nov 2014 5:53

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MS



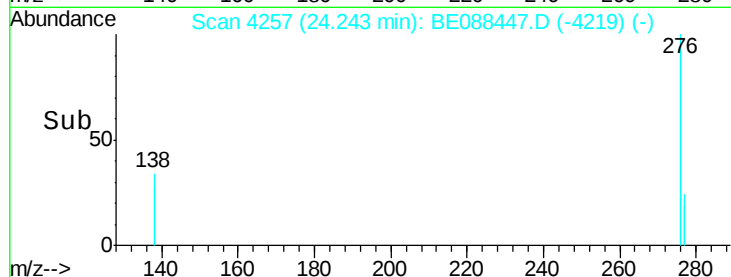
Tgt Ion: 276 Resp: 751308

Ion Ratio Lower Upper

276 100

277 24.1 19.8 29.6

138 33.8 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

