

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062516\
 Data File : BF088378.D
 Acq On : 25 Jun 2016 15:47
 Operator : UM/SJ
 Sample : H3624-14
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1496(0-4)

Quant Time: Jun 26 02:49:17 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 14:55:14 2016
 Response via : Initial Calibration

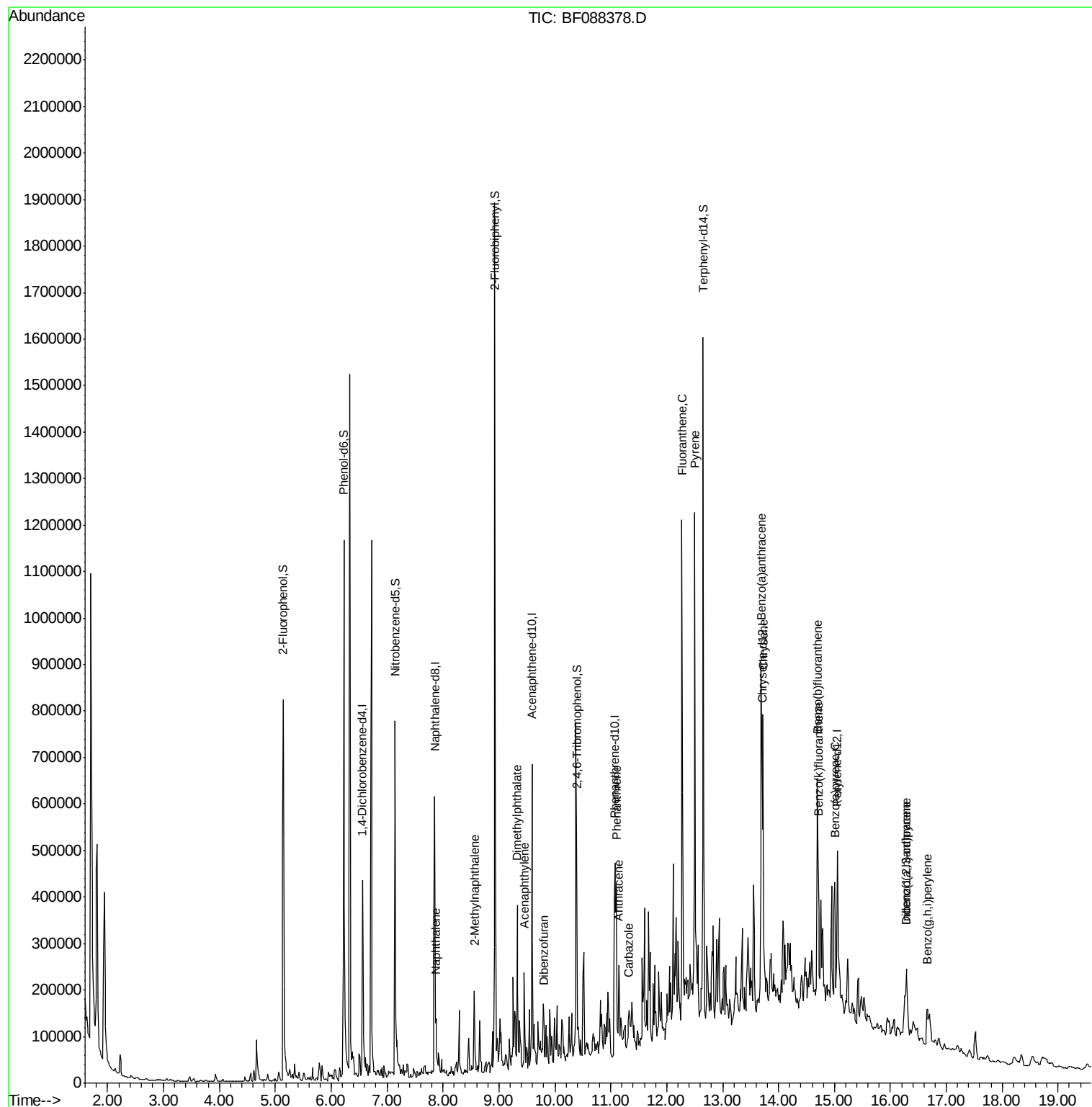
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.56	152	85338	20.00	ng	-0.05
21) Naphthalene-d8	7.85	136	329235	20.00	ng	-0.05
38) Acenaphthene-d10	9.59	164	141556	20.00	ng	-0.06
63) Phenanthrene-d10	11.07	188	239424	20.00	ng	-0.05
75) Chrysene-d12	13.70	240	164784	20.00	ng	-0.05
86) Perylene-d12	15.05	264	153483	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	411970	82.53	ng	-0.03
7) Phenol-d6	6.23	99	548381	90.65	ng	-0.03
23) Nitrobenzene-d5	7.14	82	414503	73.52	ng	-0.03
41) 2,4,6-Tribromophenol	10.39	330	112889	75.53	ng	-0.05
44) 2-Fluorobiphenyl	8.92	172	682606	75.11	ng	-0.05
78) Terphenyl-d14	12.65	244	505229	69.77	ng	-0.05
Target Compounds						Qvalue
31) Naphthalene	7.87	128	63334	3.89	ng	100
37) 2-Methylnaphthalene	8.56	142	56491	5.26	ng	97
48) Acenaphthylene	9.45	152	81527	5.60	ng	98
49) Dimethylphthalate	9.32	163	115274	11.24	ng	99
54) Dibenzofuran	9.80	168	28189	2.25	ng	# 90
70) Phenanthrene	11.10	178	201256	16.02	ng	97
71) Anthracene	11.14	178	79208	6.25	ng	98
72) Carbazole	11.31	167	27557	2.32	ng	93
74) Fluoranthene	12.27	202	501454	37.82	ng	99
77) Pyrene	12.50	202	468082	38.28	ng	100
80) Benzo(a)anthracene	13.69	228	249881	26.61	ng	# 89
82) Chrysene	13.73	228	269964m	30.56	ng	
85) Indeno(1,2,3-cd)pyrene	16.29	276	83837	10.21	ng	# 100
87) Benzo(b)fluoranthene	14.70	252	302516m	28.28	ng	
88) Benzo(k)fluoranthene	14.71	252	79590m	9.86	ng	
89) Benzo(a)pyrene	15.01	252	160603m	18.56	ng	
90) Dibenzo(a,h)anthracene	16.29	278	25228	3.14	ng	# 78
91) Benzo(g,h,i)perylene	16.66	276	73358	8.87	ng	97

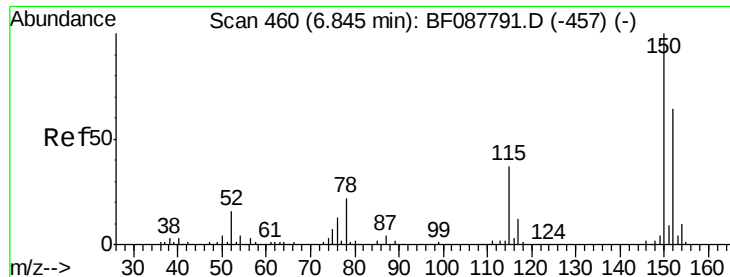
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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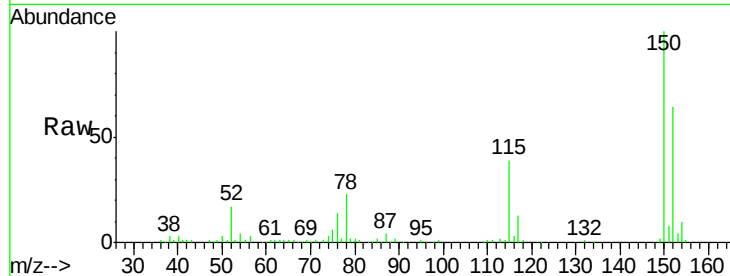


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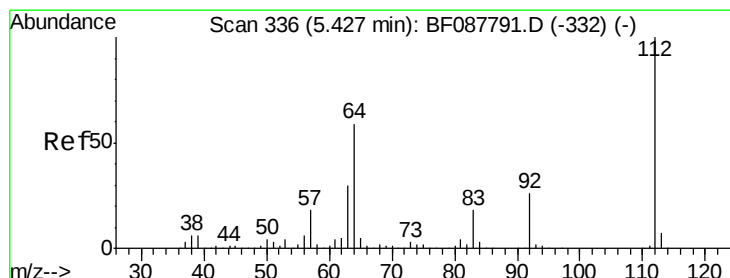
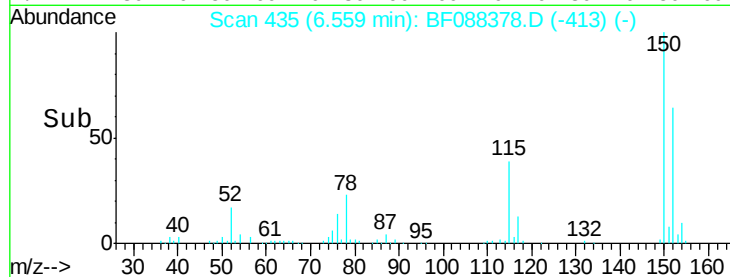
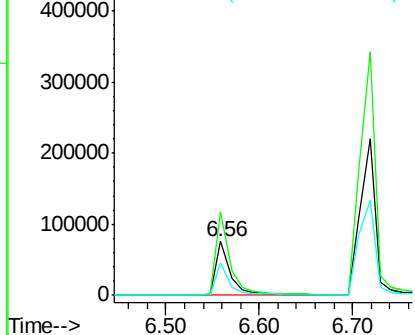
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.56 min Scan# 435
 Delta R.T. -0.05 min
 Lab File: BF088378.D
 Acq: 25 Jun 2016 15:47

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1496(0-4)

Tot Ion:152 Resp: 85338
 Ion Ratio Lower Upper
 152 100
 150 156.1 123.8 185.6
 115 60.4 39.6 59.4#



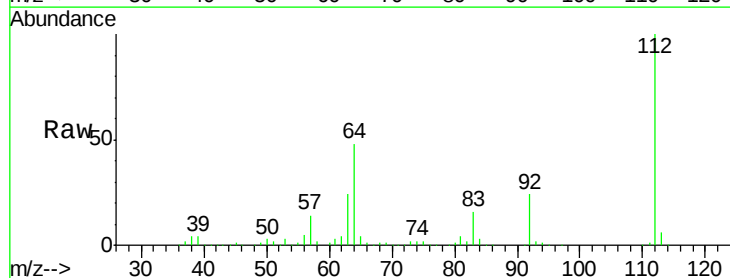
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



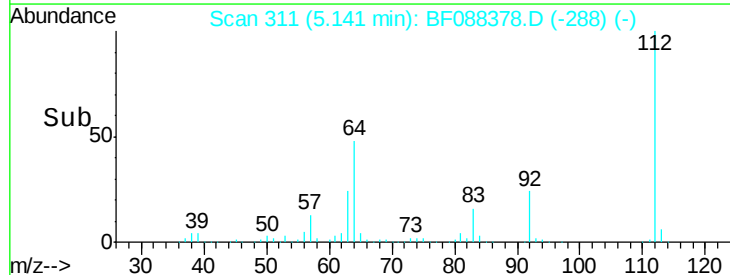
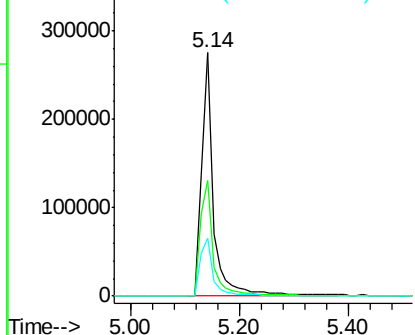
#5

2-Fluorophenol
 Concen: 82.53 ng
 RT: 5.14 min Scan# 311
 Delta R.T. -0.03 min
 Lab File: BF088378.D
 Acq: 25 Jun 2016 15:47

Tgt Ion:112 Resp: 411970
 Ion Ratio Lower Upper
 112 100
 64 47.6 42.2 63.2
 63 24.1 21.8 32.8



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 90.65 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.03 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

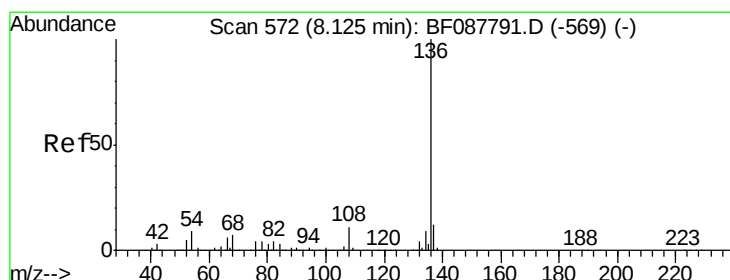
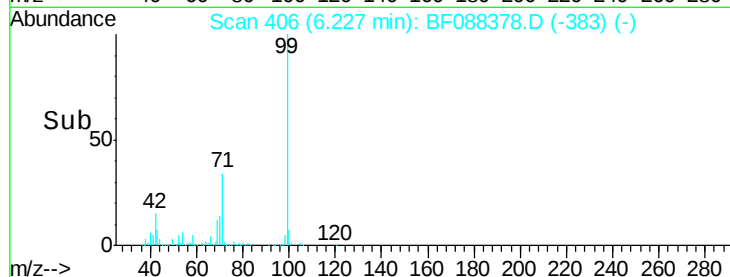
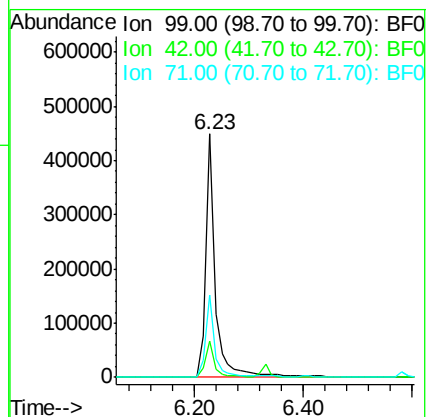
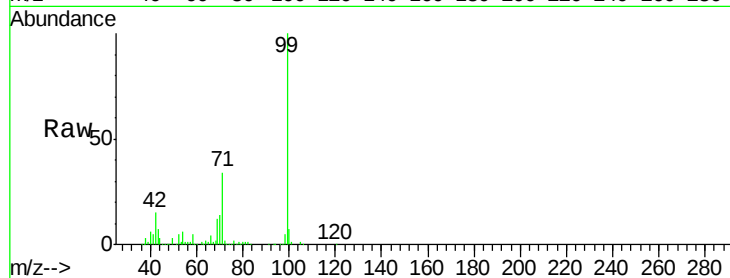
Tot Ion: 99 Resp: 548381

Ion Ratio Lower Upper

99 100

42 14.8 12.2 18.2

71 33.8 23.4 35.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.85 min Scan# 548

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Tgt Ion: 136 Resp: 329235

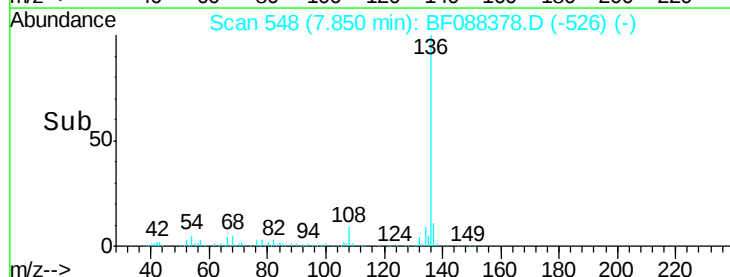
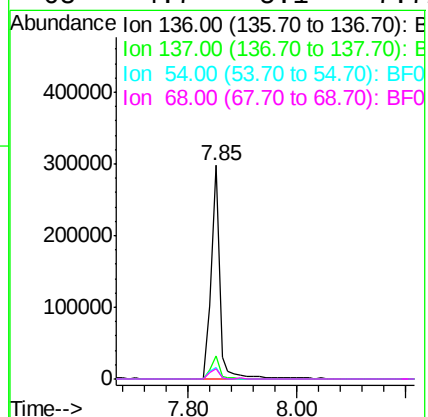
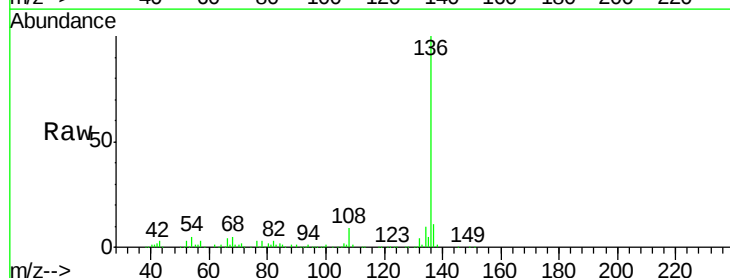
Ion Ratio Lower Upper

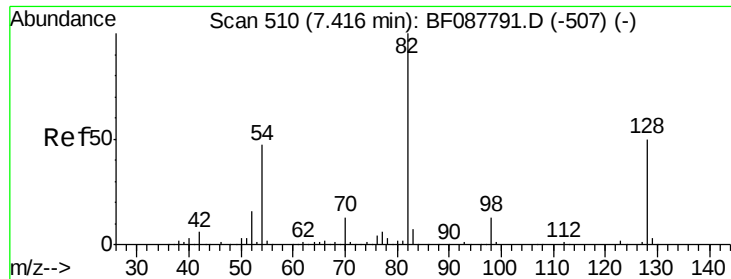
136 100

137 10.7 9.1 13.7

54 5.5 6.6 10.0#

68 4.7 5.1 7.7#

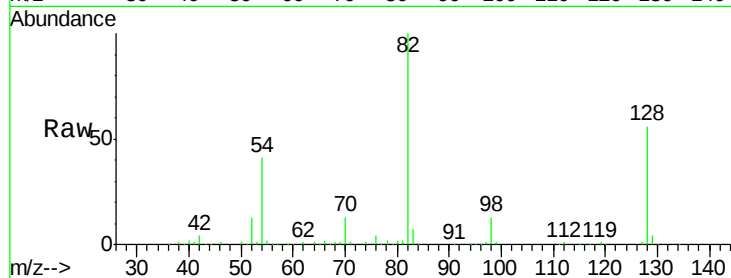




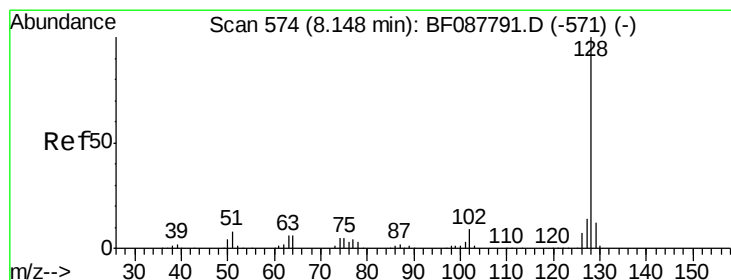
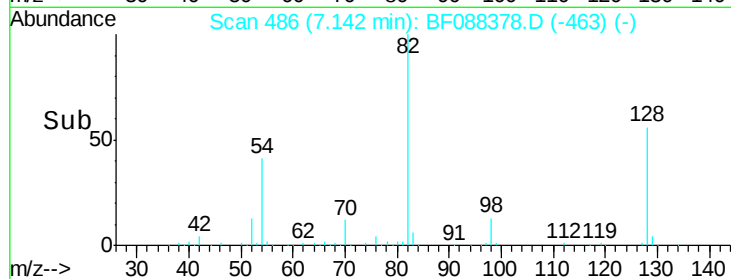
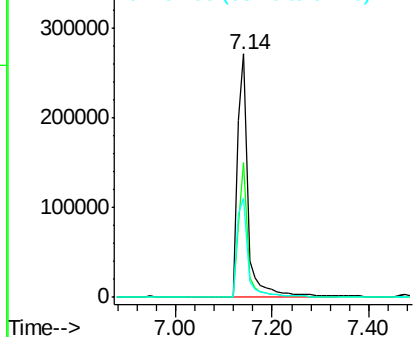
#23
Nitrobenzene-d5
Concen: 73.52 ng
RT: 7.14 min Scan# 486
Delta R.T. -0.03 min
Lab File: BF088378.D
Acq: 25 Jun 2016 15:47

Instrument :
BNA_F
ClientSampleId :
SC-STA-1496(0-4)

Tot Ion: 82 Resp: 414503
Ion Ratio Lower Upper
82 100
128 55.5 35.9 53.9#
54 40.7 40.9 61.3#

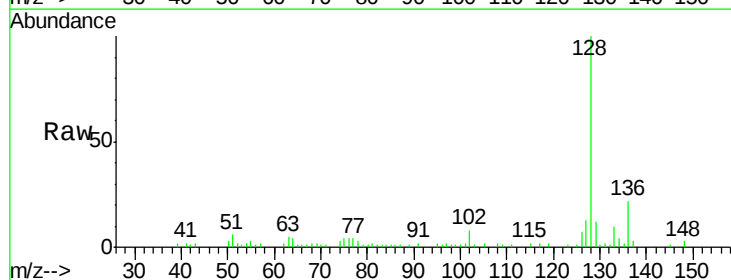


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

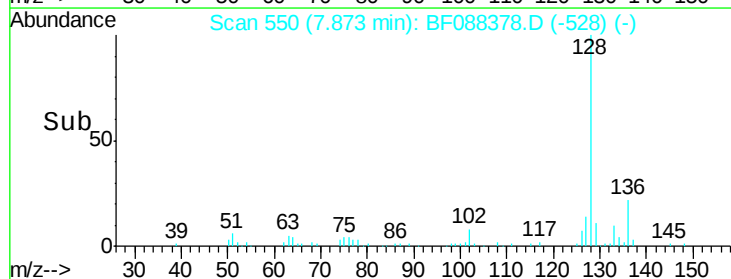
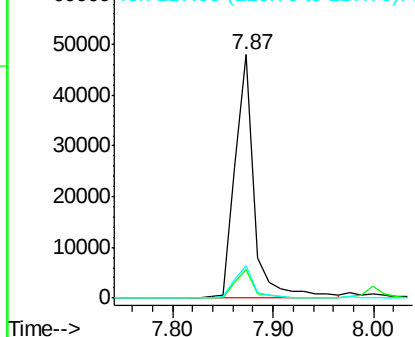


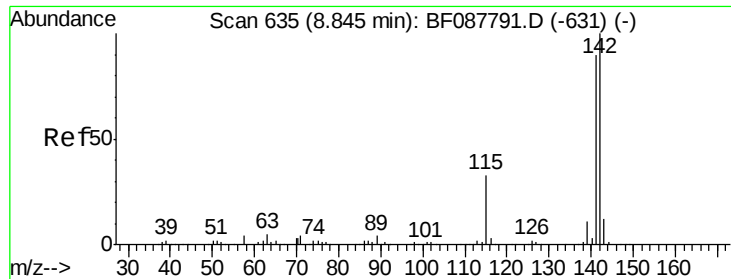
#31
Naphthalene
Concen: 3.89 ng
RT: 7.87 min Scan# 550
Delta R.T. -0.05 min
Lab File: BF088378.D
Acq: 25 Jun 2016 15:47

Tgt Ion: 128 Resp: 63334
Ion Ratio Lower Upper
128 100
129 11.8 9.4 14.2
127 13.5 10.9 16.3



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

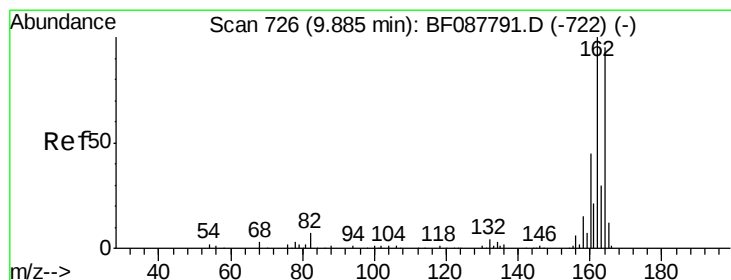
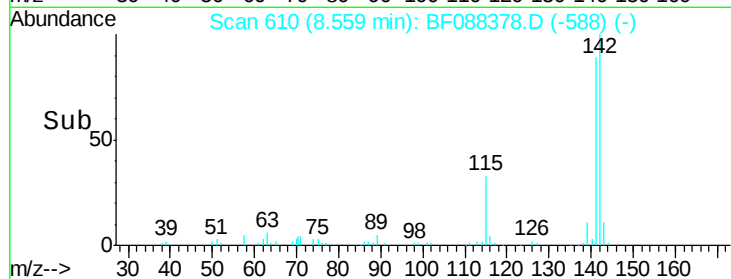
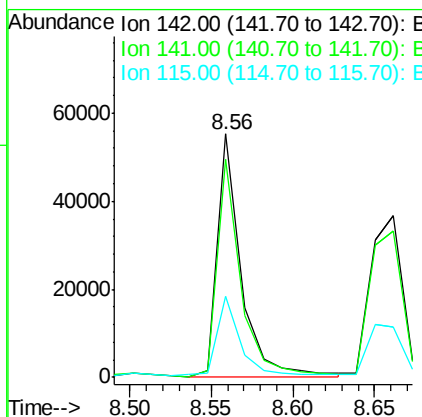
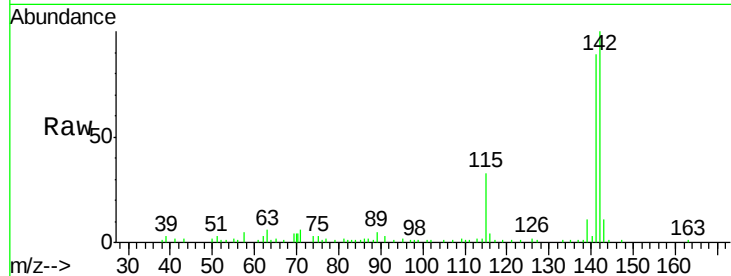




#37
 2-Methylnaphthalene
 Concen: 5.26 ng
 RT: 8.56 min Scan# 610
 Delta R.T. -0.05 min
 Lab File: BF088378.D
 Acq: 25 Jun 2016 15:47

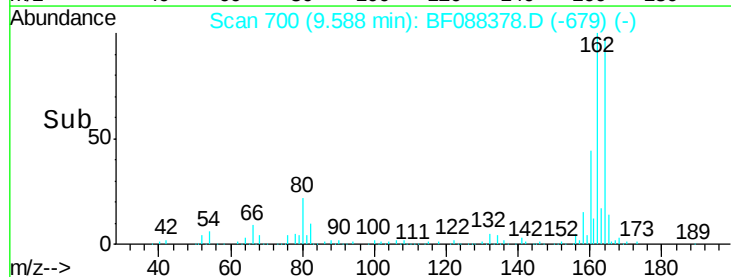
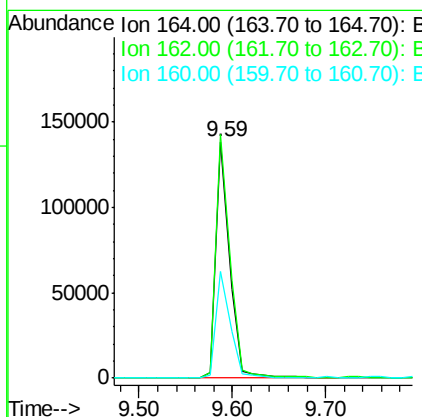
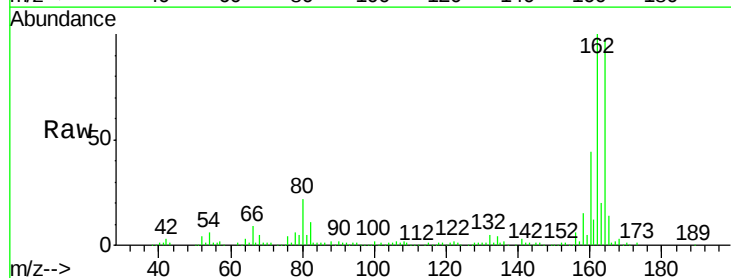
Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1496(0-4)

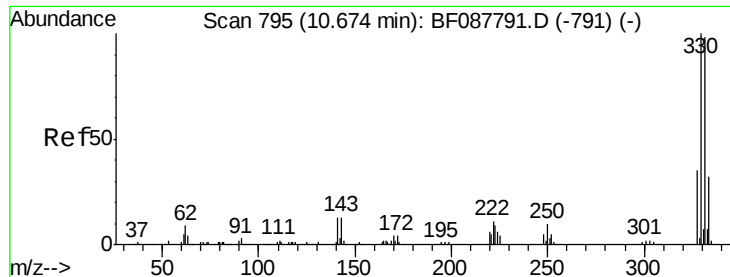
Tot Ion:142 Resp: 56491
 Ion Ratio Lower Upper
 142 100
 141 89.4 71.0 106.6
 115 33.2 22.6 33.8



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.59 min Scan# 700
 Delta R.T. -0.06 min
 Lab File: BF088378.D
 Acq: 25 Jun 2016 15:47

Tgt Ion:164 Resp: 141556
 Ion Ratio Lower Upper
 164 100
 162 103.0 85.4 128.2
 160 45.0 39.5 59.3

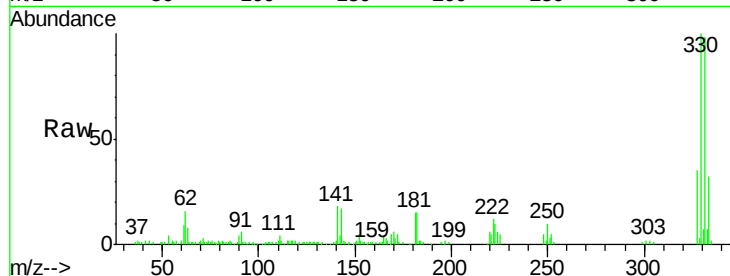




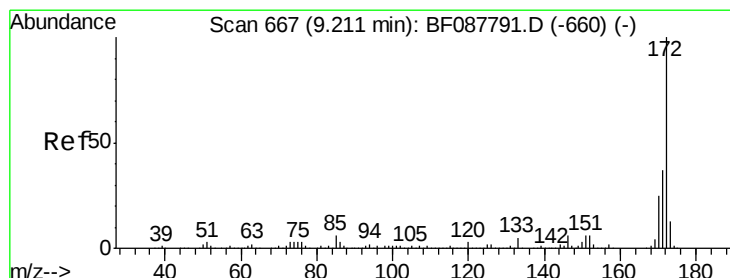
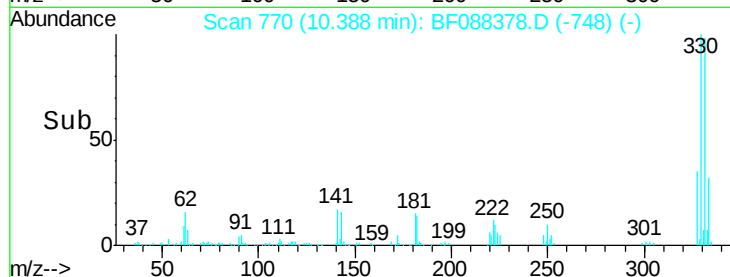
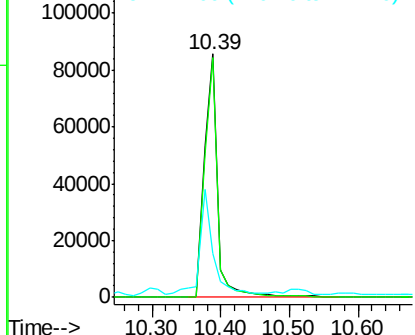
#41
 2,4,6-Tribromophenol
 Concen: 75.53 ng
 RT: 10.39 min Scan# 770
 Delta R.T. -0.05 min
 Lab File: BF088378.D
 Acq: 25 Jun 2016 15:47

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1496(0-4)

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.9	0.0	0.0#
141	44.0	0.0	0.0#

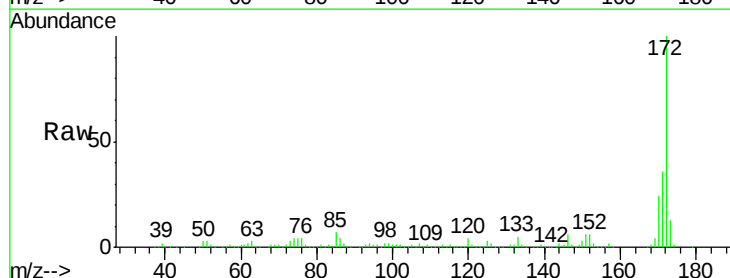


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

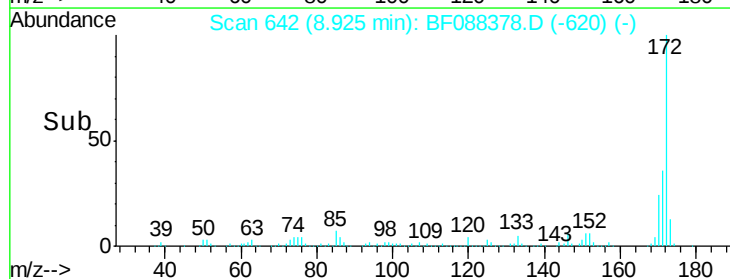
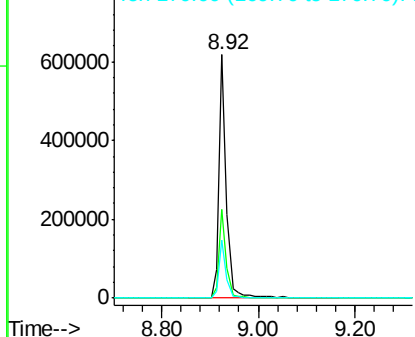


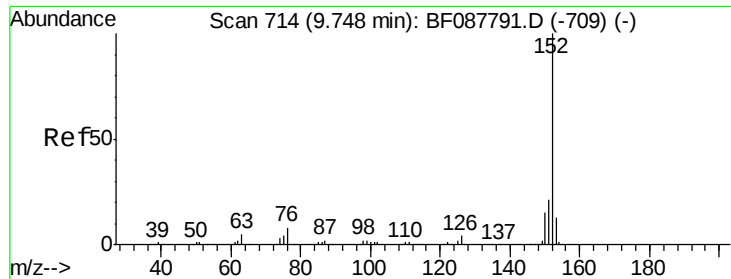
#44
 2-Fluorobiphenyl
 Concen: 75.11 ng
 RT: 8.92 min Scan# 642
 Delta R.T. -0.05 min
 Lab File: BF088378.D
 Acq: 25 Jun 2016 15:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.6	43.0
170	23.9	19.2	28.8



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





#48

Acenaphthylene

Concen: 5.60 ng

RT: 9.45 min Scan# 688

Delta R.T. -0.06 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

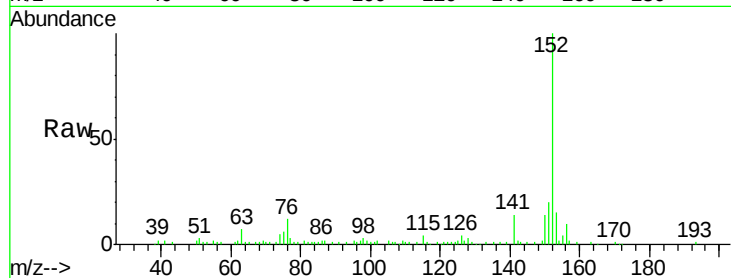
Tot Ion:152 Resp: 81527

Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

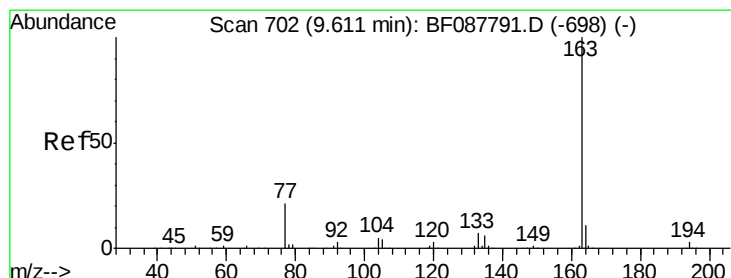
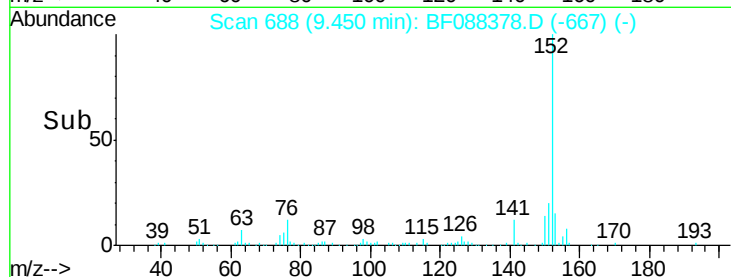
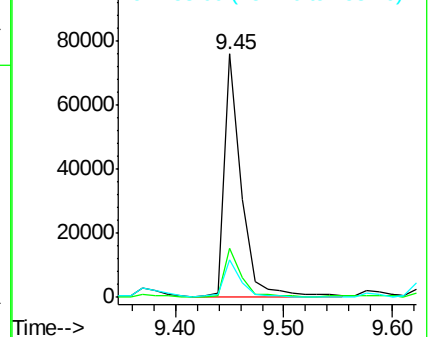
153 15.5 11.0 16.6



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



#49

Dimethylphthalate

Concen: 11.24 ng

RT: 9.32 min Scan# 677

Delta R.T. -0.06 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

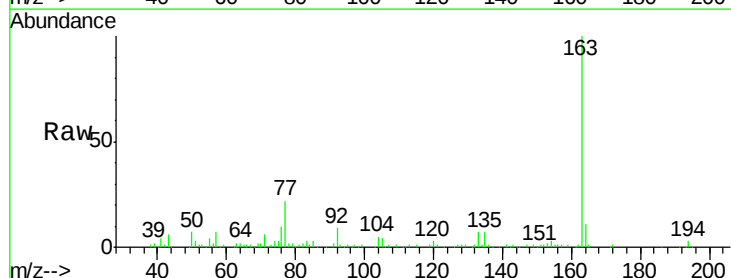
Tgt Ion:163 Resp: 115274

Ion Ratio Lower Upper

163 100

194 3.1 2.8 4.2

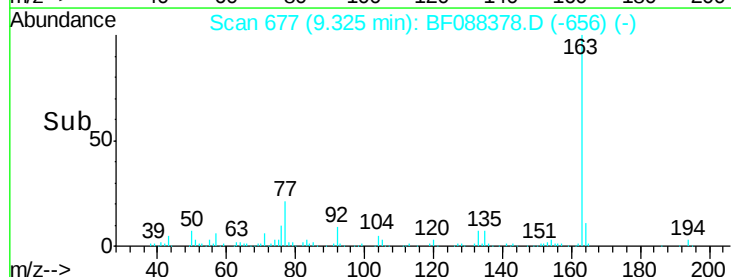
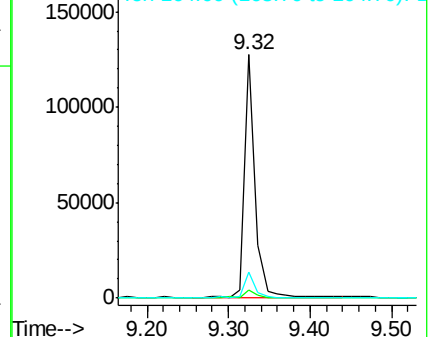
164 10.6 8.3 12.5

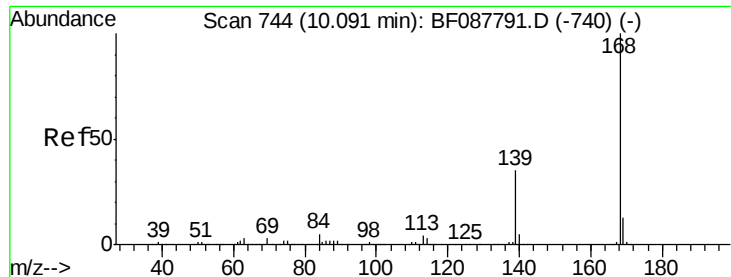


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

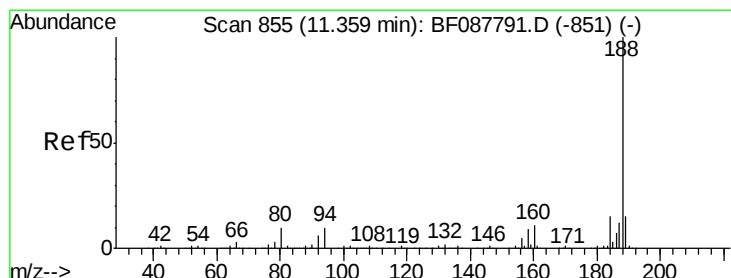
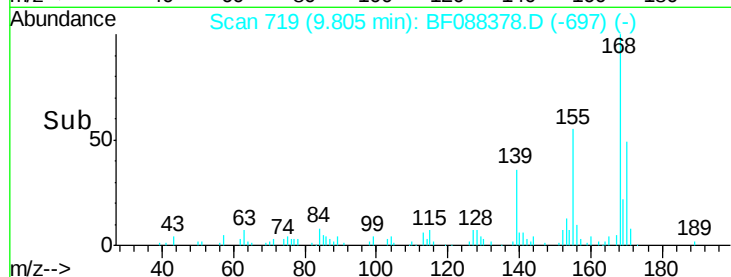
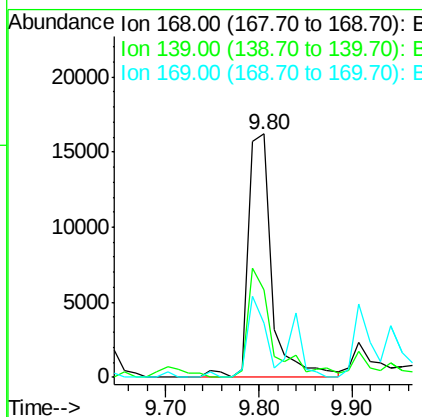
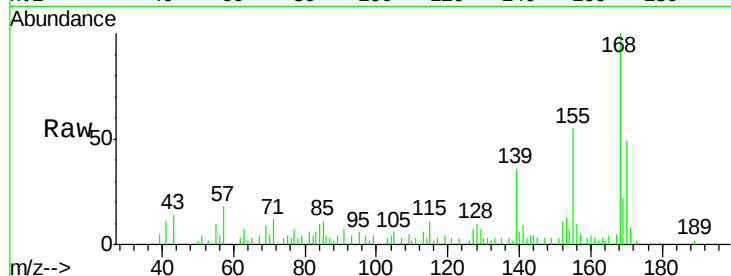




#54
Dibenzofuran
Concen: 2.25 ng
RT: 9.80 min Scan# 719
Delta R.T. -0.05 min
Lab File: BF088378.D
Acq: 25 Jun 2016 15:47

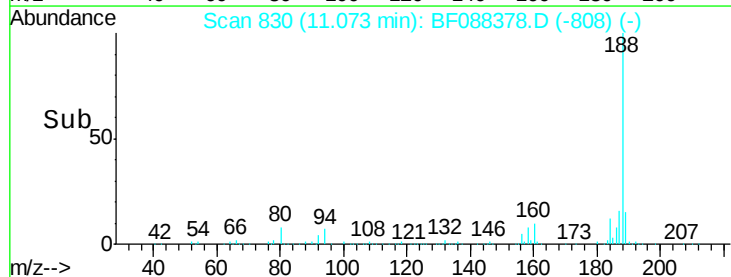
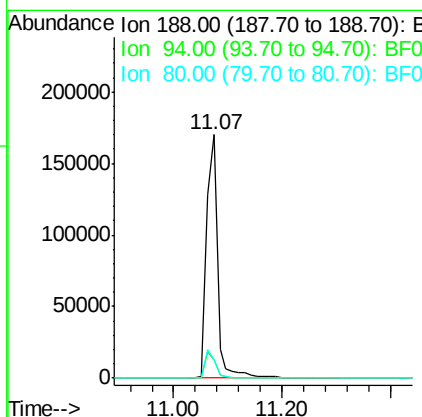
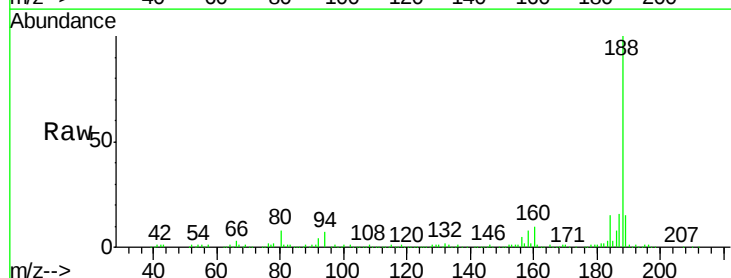
Instrument :
BNA_F
ClientSampleId :
SC-STA-1496(0-4)

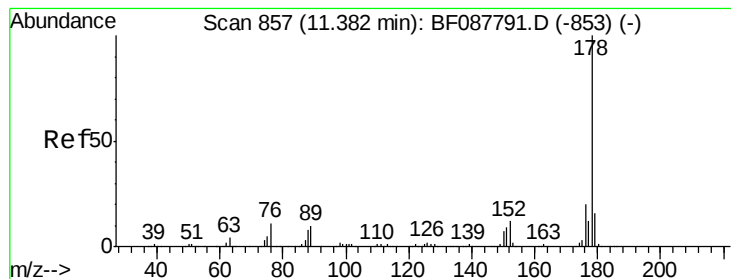
Tot Ion:168 Resp: 28189
Ion Ratio Lower Upper
168 100
139 35.7 26.4 39.6
169 22.4 10.4 15.6#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.07 min Scan# 830
Delta R.T. -0.05 min
Lab File: BF088378.D
Acq: 25 Jun 2016 15:47

Tgt Ion:188 Resp: 239424
Ion Ratio Lower Upper
188 100
94 7.5 9.0 13.6#
80 7.7 10.0 15.0#





#70

Phenanthrene

Concen: 16.02 ng

RT: 11.10 min Scan# 832

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

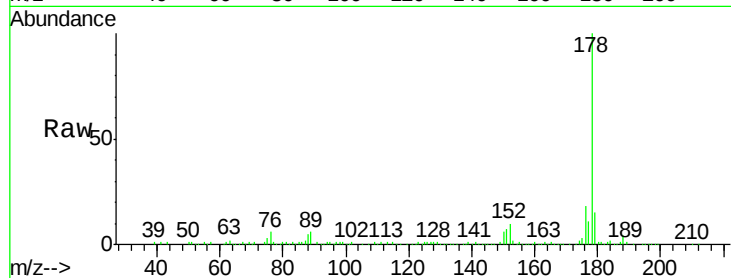
Tot Ion:178 Resp: 201256

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.6

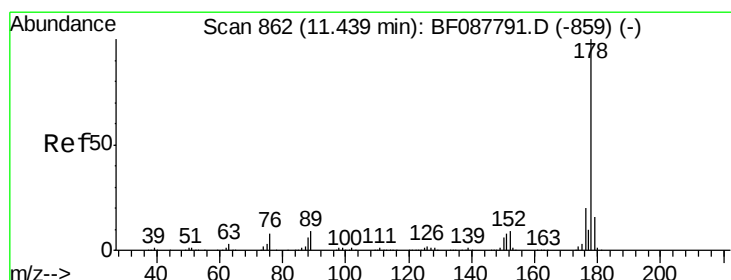
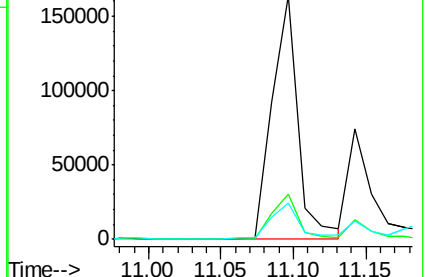
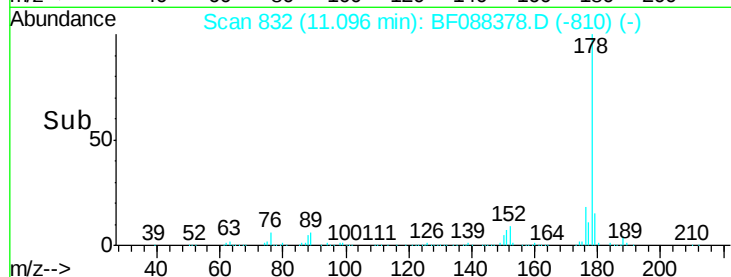
179 14.9 13.0 19.4



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



#71

Anthracene

Concen: 6.25 ng

RT: 11.14 min Scan# 836

Delta R.T. -0.06 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

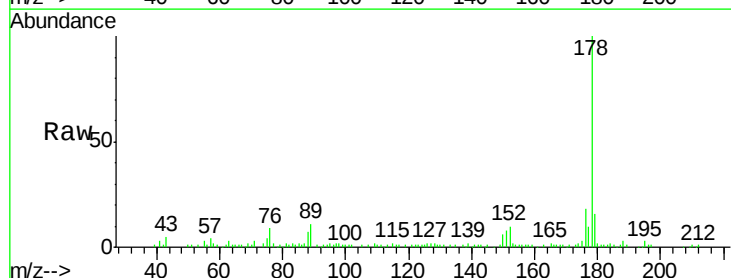
Tgt Ion:178 Resp: 79208

Ion Ratio Lower Upper

178 100

176 18.3 15.6 23.4

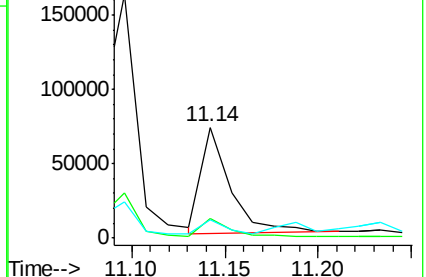
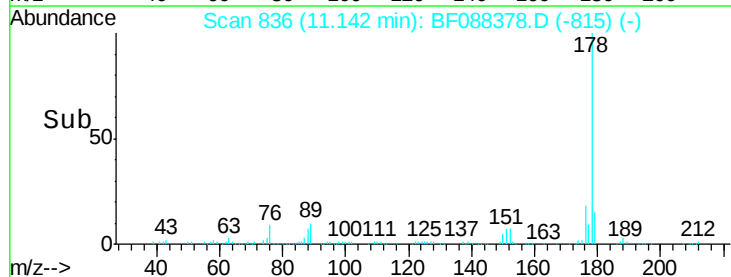
179 16.1 12.8 19.2

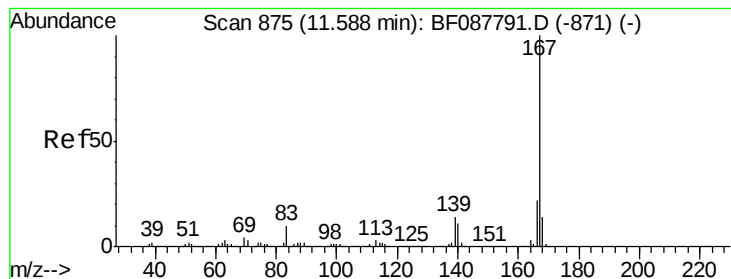


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.32 ng

RT: 11.31 min Scan# 851

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

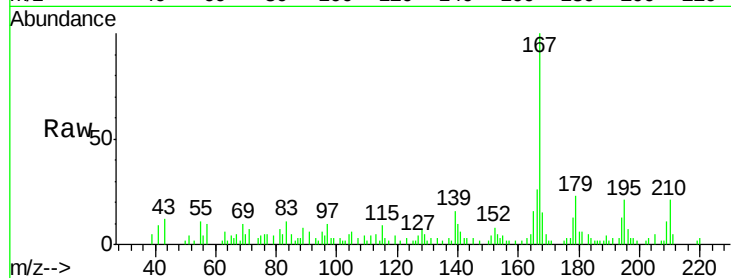
Tot Ion:167 Resp: 27557

Ion Ratio Lower Upper

167 100

166 25.7 17.8 26.6

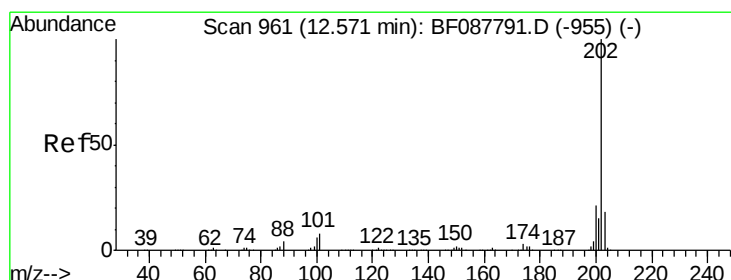
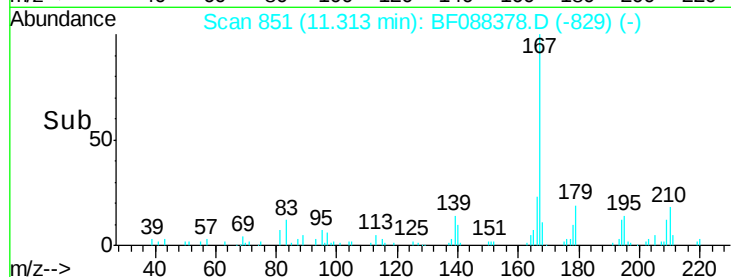
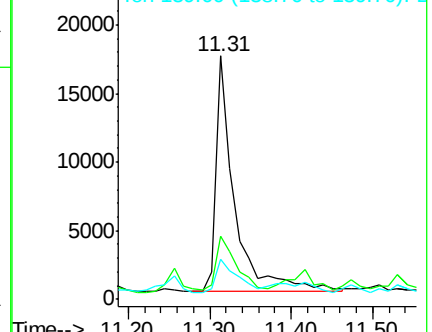
139 16.3 11.2 16.8



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 37.82 ng

RT: 12.27 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

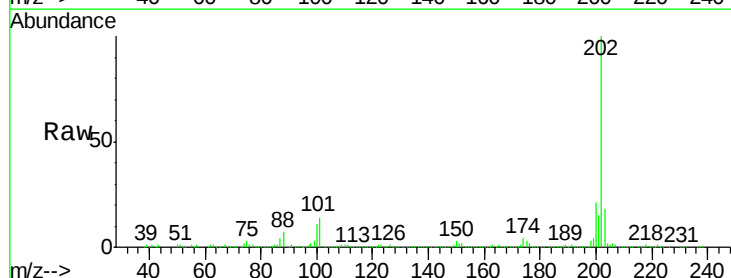
Tgt Ion:202 Resp: 501454

Ion Ratio Lower Upper

202 100

101 14.5 0.0 33.1

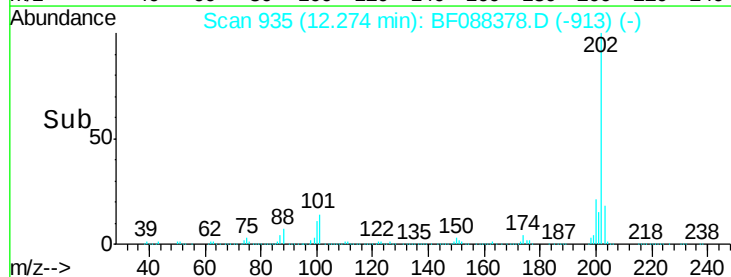
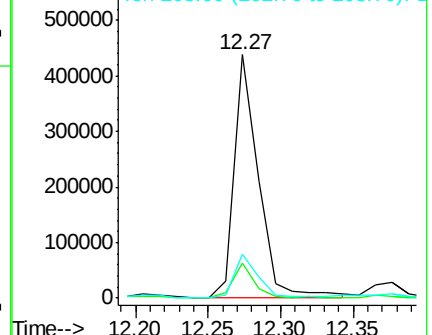
203 18.1 0.0 38.1

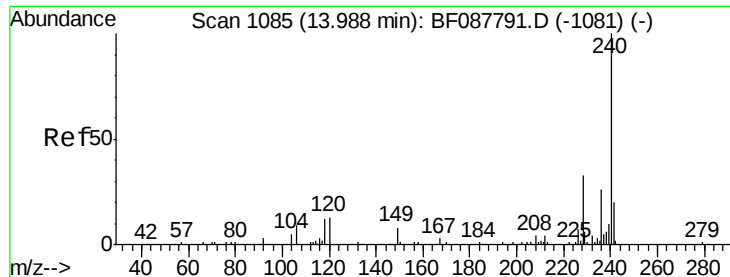


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

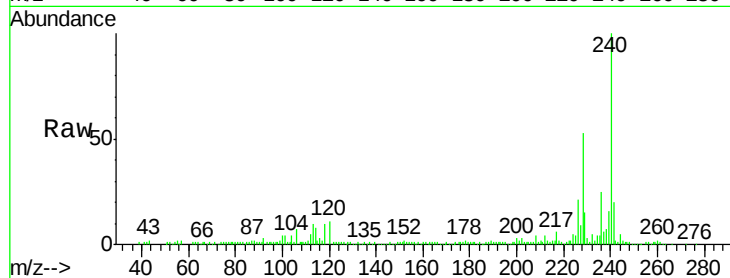
Tot Ion:240 Resp: 164784

Ion Ratio Lower Upper

240 100

120 10.9 6.8 10.2#

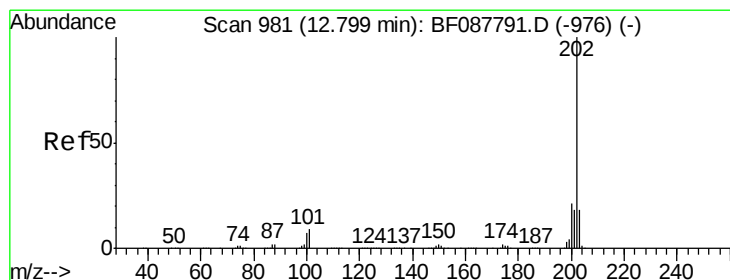
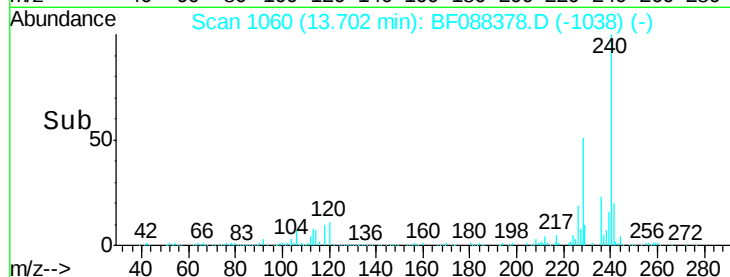
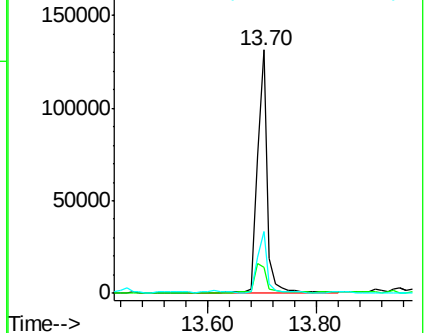
236 25.4 20.2 30.2



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



#77

Pyrene

Concen: 38.28 ng

RT: 12.50 min Scan# 955

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

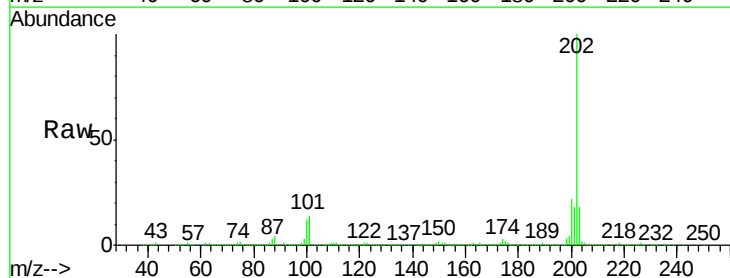
Tgt Ion:202 Resp: 468082

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

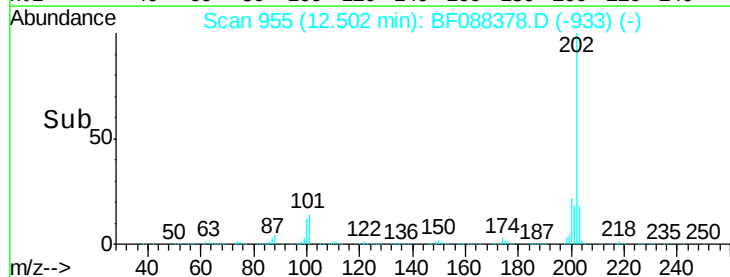
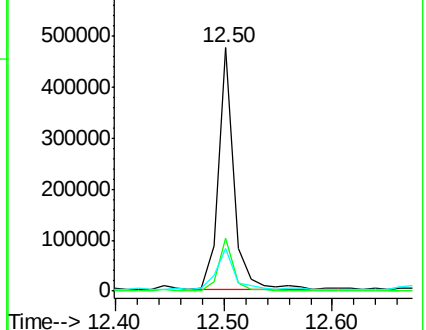
203 17.7 14.5 21.7

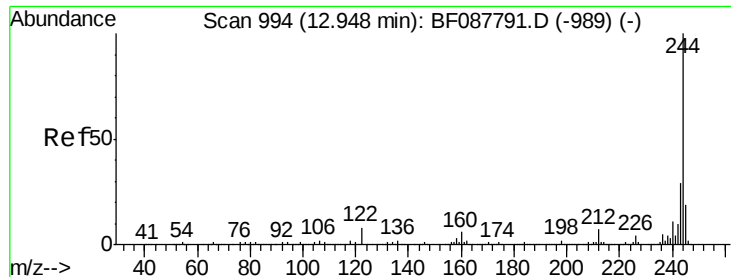


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 69.77 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

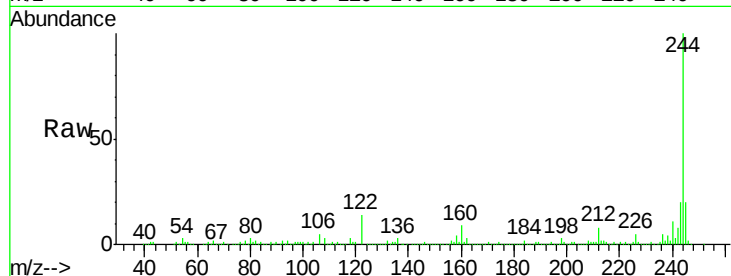
Tot Ion:244 Resp: 505229

Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

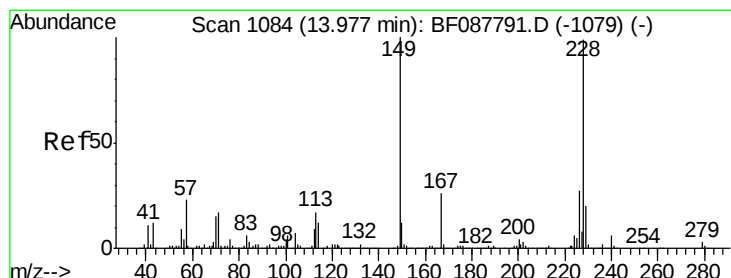
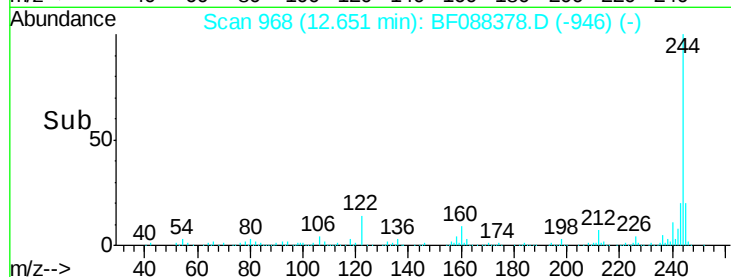
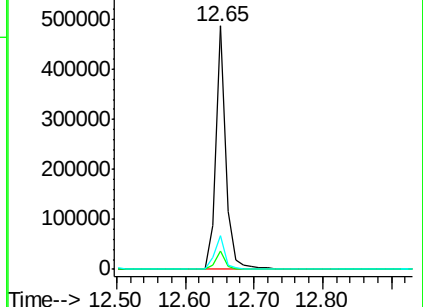
122 13.8 11.2 16.8



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



#80

Benzo(a)anthracene

Concen: 26.61 ng

RT: 13.69 min Scan# 1059

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

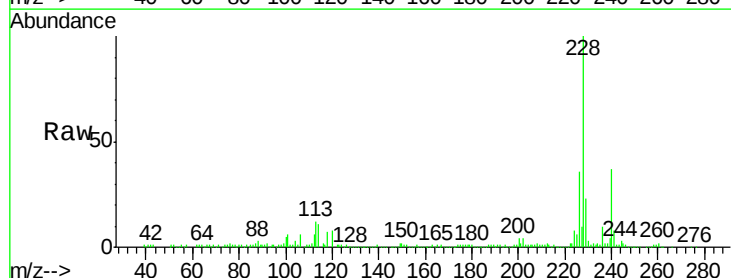
Tgt Ion:228 Resp: 249881

Ion Ratio Lower Upper

228 100

226 35.6 22.3 33.5#

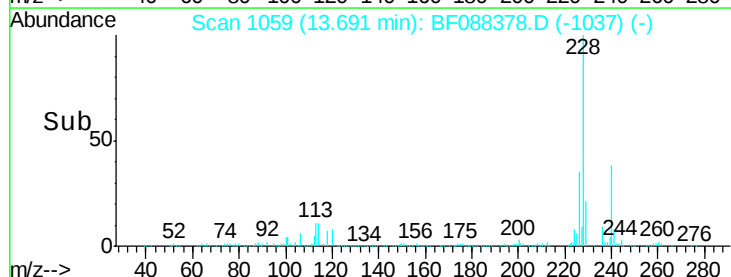
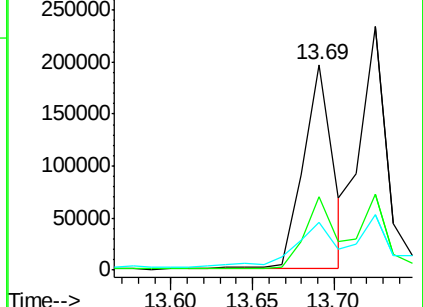
229 23.2 16.0 24.0

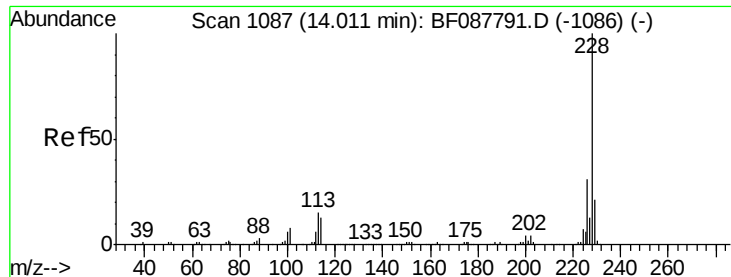


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 30.56 ng/mL

RT: 13.73 min Scan# 1062

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

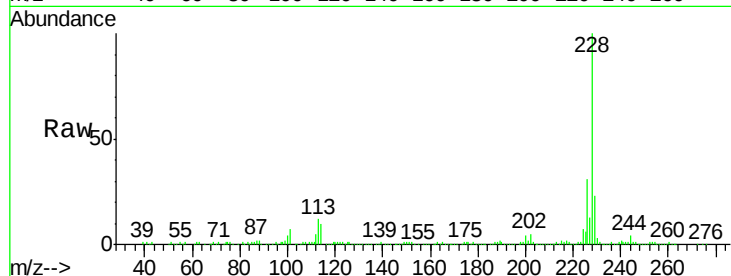
Tot Ion:228 Resp: 269964

Ion Ratio Lower Upper

228 100

226 31.0 25.4 38.2

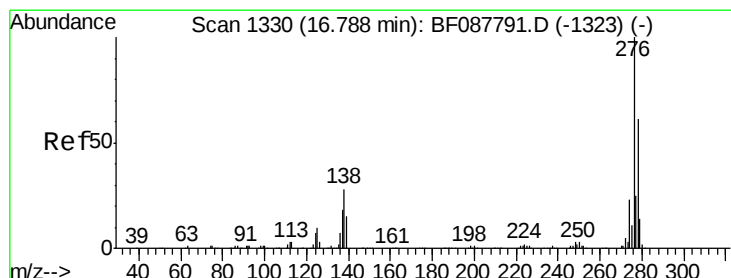
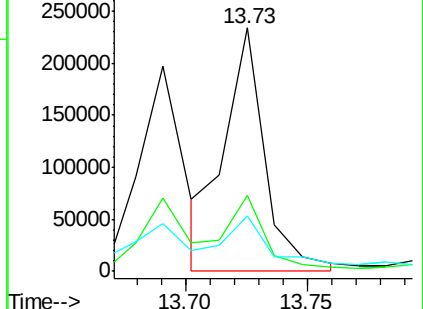
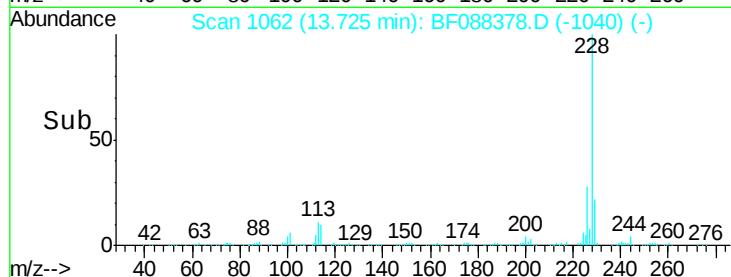
229 22.5 16.3 24.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.21 ng/mL

RT: 16.29 min Scan# 1286

Delta R.T. -0.08 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

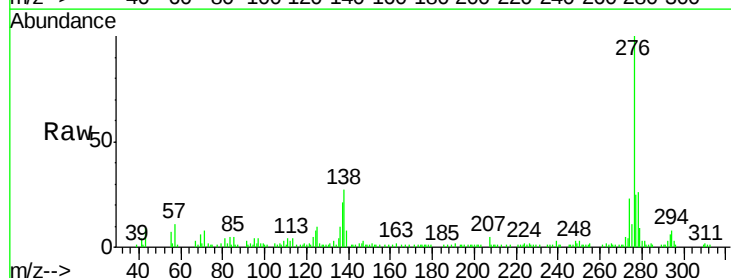
Tgt Ion:276 Resp: 83837

Ion Ratio Lower Upper

276 100

138 28.0 0.0 0.0#

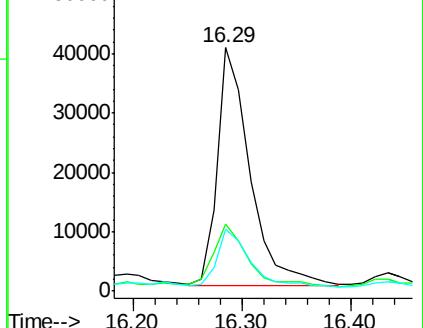
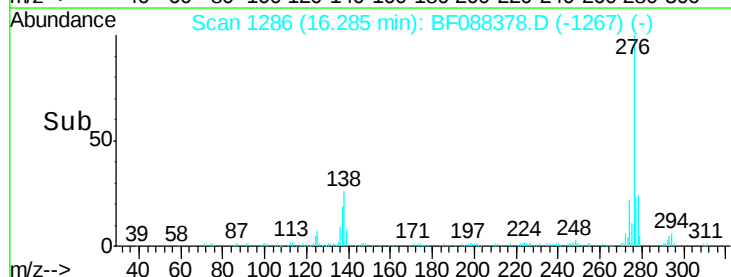
277 23.9 0.0 0.0#

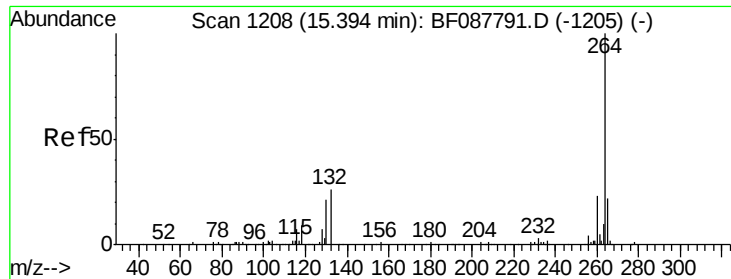


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

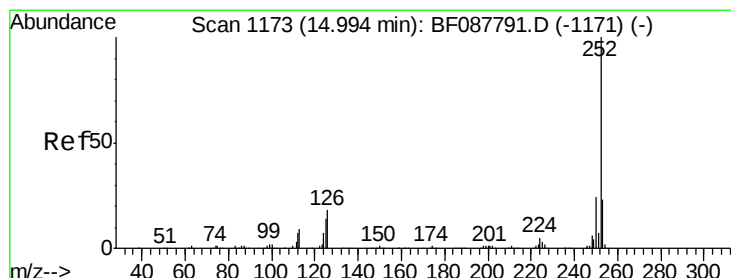
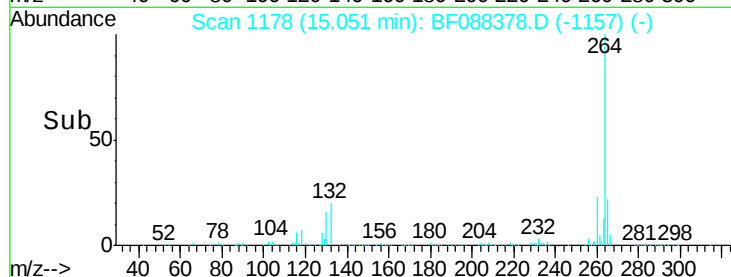
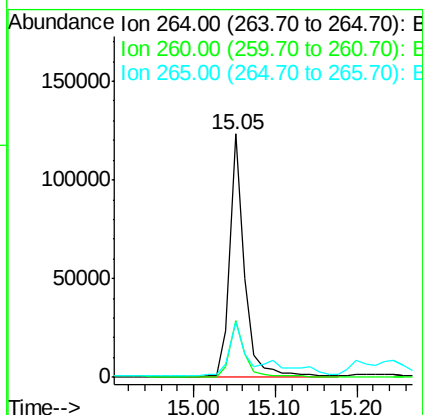
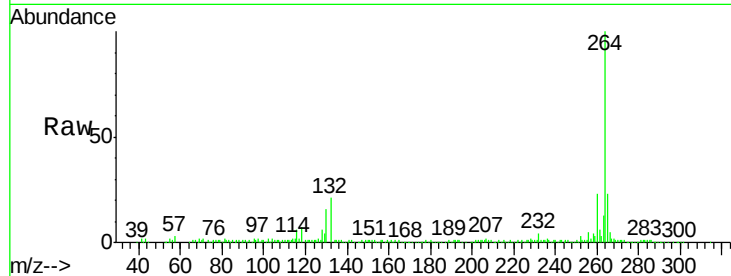




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.06 min
Lab File: BF088378.D
Acq: 25 Jun 2016 15:47

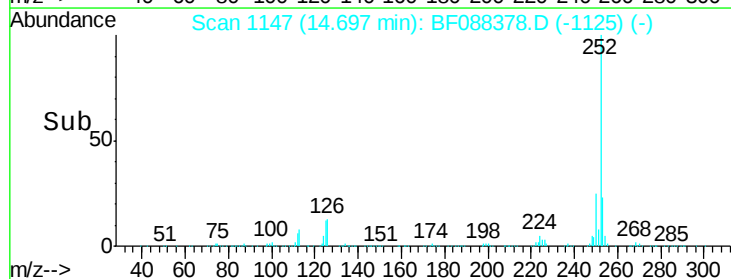
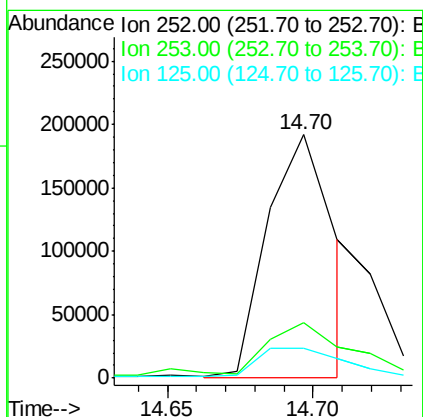
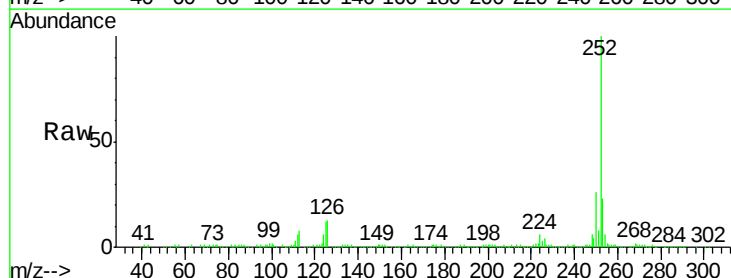
Instrument :
BNA_F
ClientSampleId :
SC-STA-1496(0-4)

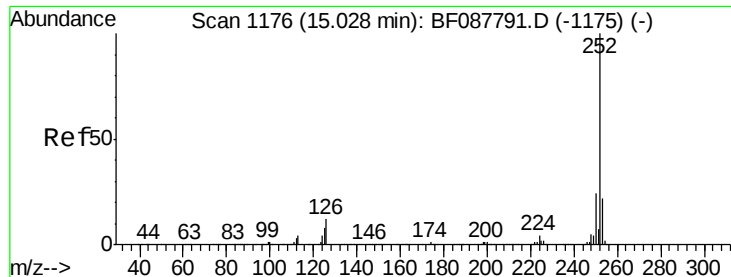
Tot Ion:264 Resp: 153483
Ion Ratio Lower Upper
264 100
260 23.4 19.2 28.8
265 22.9 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 28.28 ng m
RT: 14.70 min Scan# 1147
Delta R.T. -0.05 min
Lab File: BF088378.D
Acq: 25 Jun 2016 15:47

Tgt Ion:252 Resp: 302516
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 12.4 7.1 10.7#





#88

Benzo(k)fluoranthene

Concen: 9.86 ng m

RT: 14.71 min Scan# 1148

Delta R.T. -0.06 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

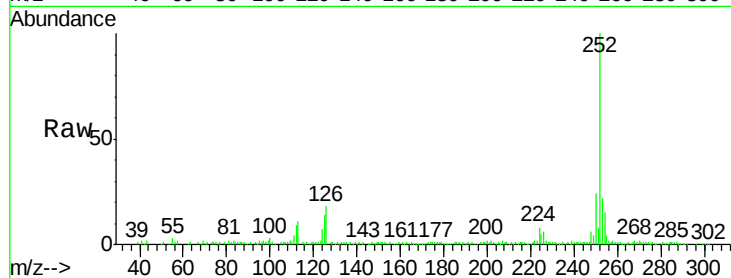
Tot Ion:252 Resp: 79590

Ion Ratio Lower Upper

252 100

253 22.4 18.0 27.0

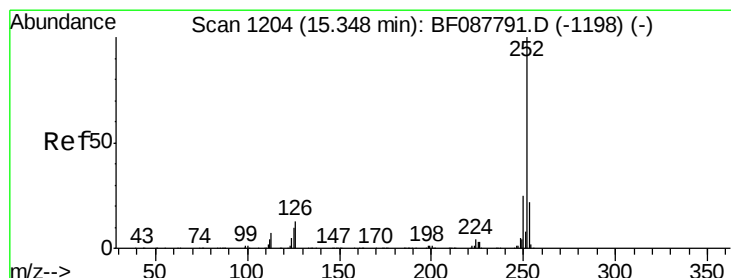
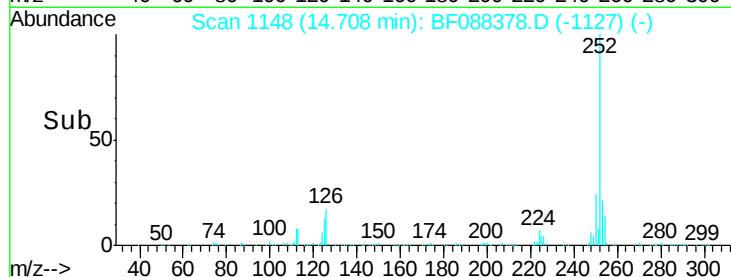
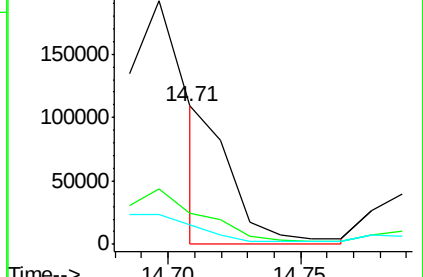
125 14.4 11.2 16.8



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



#89

Benzo(a)pyrene

Concen: 18.56 ng m

RT: 15.01 min Scan# 1174

Delta R.T. -0.05 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

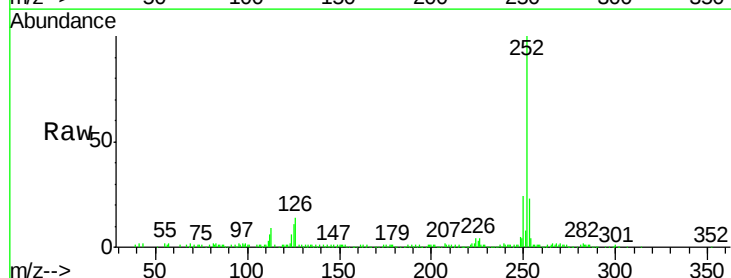
Tgt Ion:252 Resp: 160603

Ion Ratio Lower Upper

252 100

253 23.1 17.9 26.9

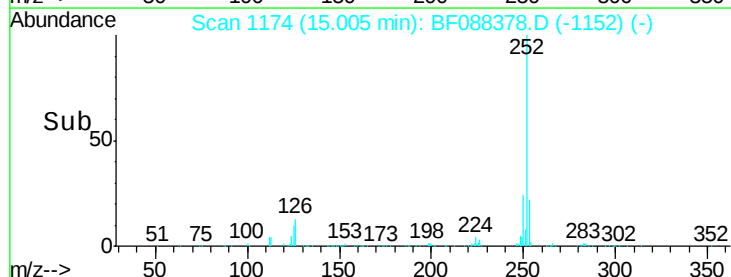
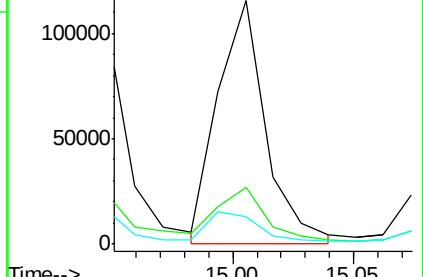
125 11.3 12.5 18.7#

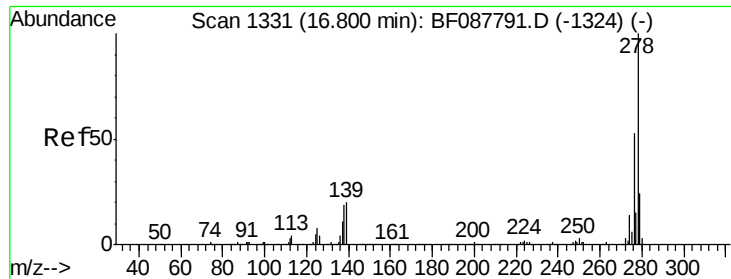


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.14 ng

RT: 16.29 min Scan# 1286

Delta R.T. -0.08 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Instrument :

BNA_F

ClientSampleId :

SC-STA-1496(0-4)

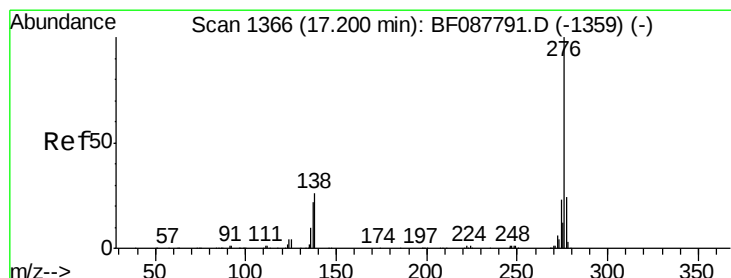
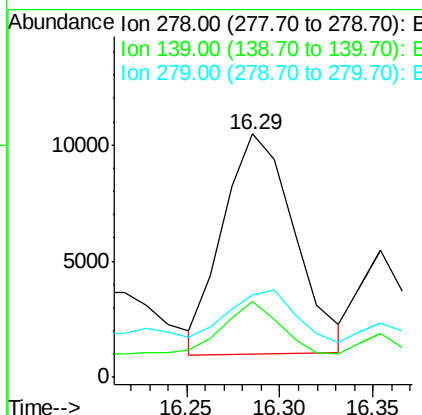
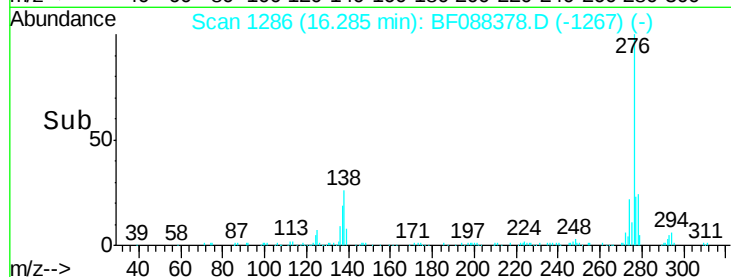
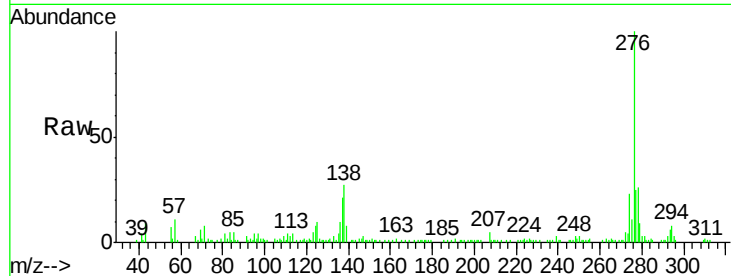
Tot Ion:278 Resp: 25228

Ion Ratio Lower Upper

278 100

139 31.4 15.7 23.5#

279 33.7 19.4 29.2#



#91

Benzo(g,h,i)perylene

Concen: 8.87 ng

RT: 16.66 min Scan# 1319

Delta R.T. -0.08 min

Lab File: BF088378.D

Acq: 25 Jun 2016 15:47

Tgt Ion:276 Resp: 73358

Ion Ratio Lower Upper

276 100

277 26.2 18.9 28.3

138 26.4 21.4 32.2

