

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062516\
 Data File : BF088376.D
 Acq On : 25 Jun 2016 14:49
 Operator : UM/SJ
 Sample : H3622-04
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1447(0-4)

Quant Time: Jun 26 02:44:41 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

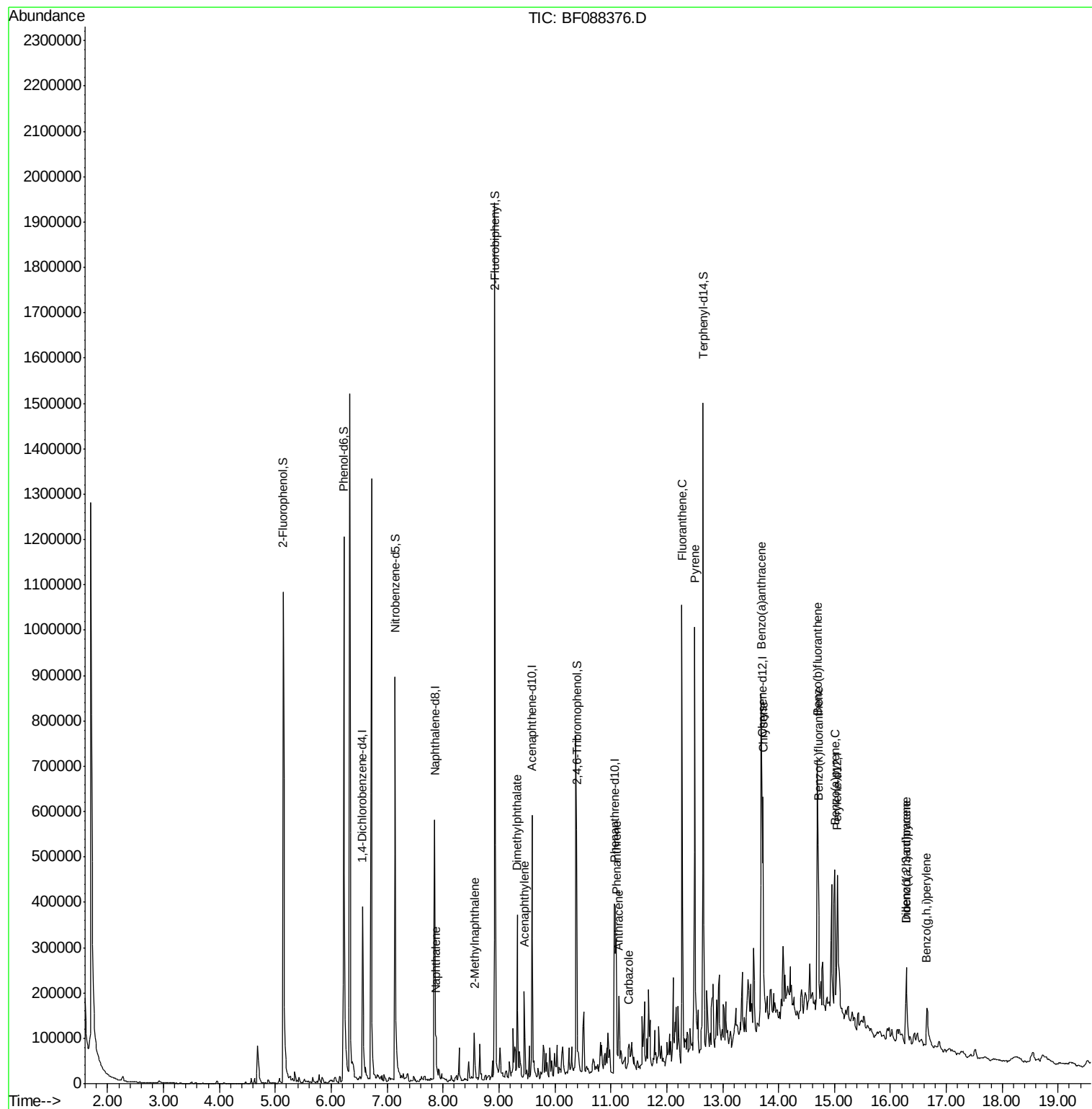
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.56	152	83147	20.00	ng	-0.05
21) Naphthalene-d8	7.85	136	326306	20.00	ng	-0.05
38) Acenaphthene-d10	9.59	164	138703	20.00	ng	-0.06
63) Phenanthrene-d10	11.07	188	228517	20.00	ng	-0.05
75) Chrysene-d12	13.70	240	162895	20.00	ng	-0.05
86) Perylene-d12	15.05	264	149460	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	499457	102.69	ng	-0.03
7) Phenol-d6	6.23	99	618469	104.92	ng	-0.03
23) Nitrobenzene-d5	7.14	82	442606	79.21	ng	-0.03
41) 2,4,6-Tribromophenol	10.39	330	126712	86.52	ng	-0.05
44) 2-Fluorobiphenyl	8.92	172	714120	80.59	ng	-0.05
78) Terphenyl-d14	12.65	244	479422	66.97	ng	-0.05
Target Compounds						Qvalue
31) Naphthalene	7.87	128	44230	2.74	ng	99
37) 2-Methylnaphthalene	8.56	142	37864	3.56	ng	98
48) Acenaphthylene	9.45	152	95345	6.68	ng	99
49) Dimethylphthalate	9.32	163	147029	14.63	ng	99
70) Phenanthrene	11.10	178	166246	13.86	ng	97
71) Anthracene	11.14	178	88362	7.31	ng	98
72) Carbazole	11.31	167	26102	2.31	ng	97
74) Fluoranthene	12.27	202	445245	35.18	ng	98
77) Pyrene	12.50	202	445338	36.84	ng	99
80) Benzo(a)anthracene	13.69	228	259081m	27.91	ng	
82) Chrysene	13.73	228	233672m	26.76	ng	
85) Indeno(1,2,3-cd)pyrene	16.29	276	94564	11.65	ng	# 100
87) Benzo(b)fluoranthene	14.70	252	340936m	32.73	ng	
88) Benzo(k)fluoranthene	14.71	252	87473m	11.13	ng	
89) Benzo(a)pyrene	15.01	252	187574m	22.26	ng	
90) Dibenzo(a,h)anthracene	16.29	278	27456	3.51	ng	# 81
91) Benzo(a,h,i)perylene	16.65	276	77715	9.65	ng	96

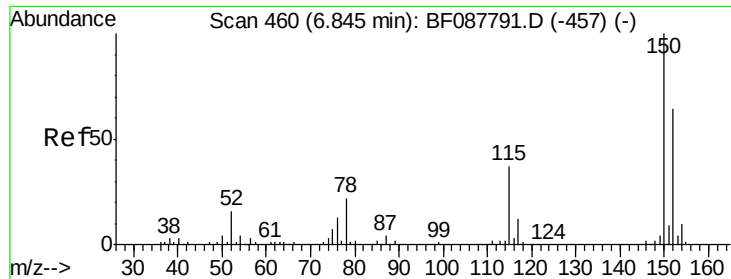
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 435

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

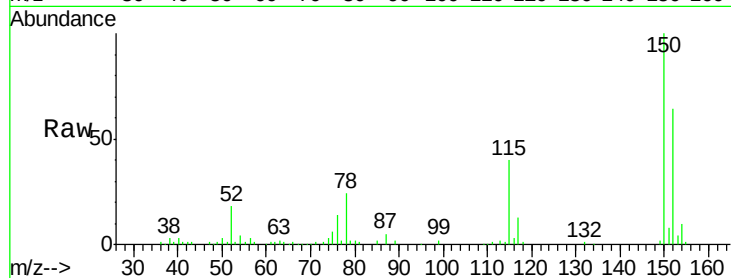
Tot Ion:152 Resp: 83147

Ion Ratio Lower Upper

152 100

150 155.1 123.8 185.6

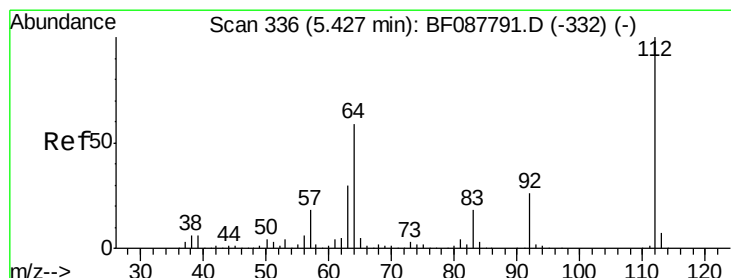
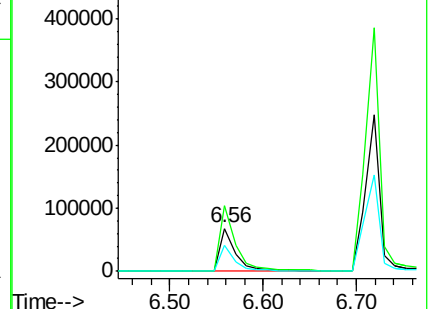
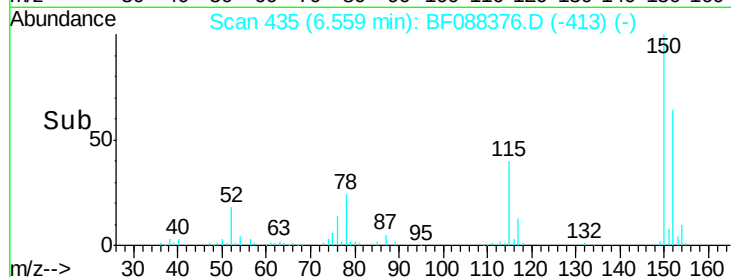
115 61.3 39.6 59.4#



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: 102.69 ng

RT: 5.14 min Scan# 311

Delta R.T. -0.03 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

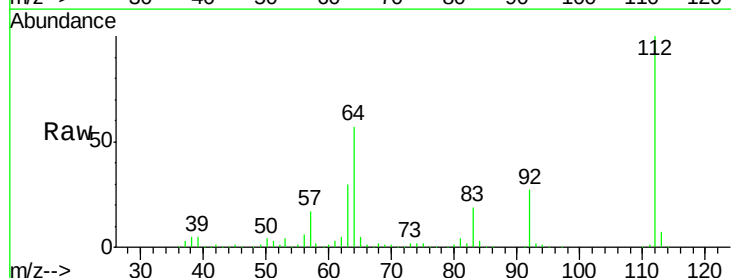
Tgt Ion:112 Resp: 499457

Ion Ratio Lower Upper

112 100

64 57.5 42.2 63.2

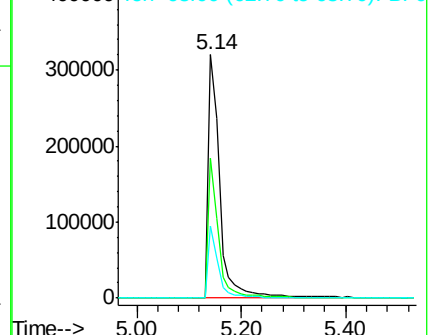
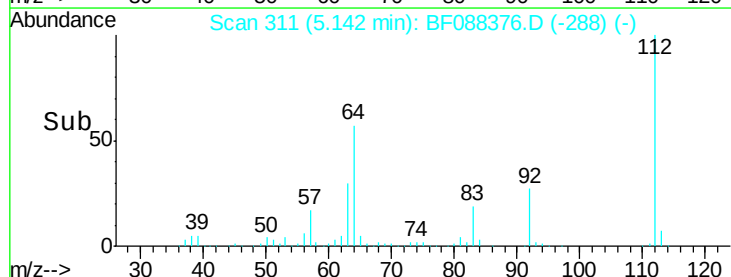
63 29.8 21.8 32.8

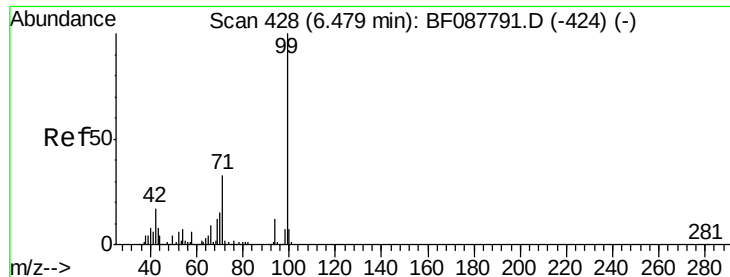


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 104.92 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.03 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

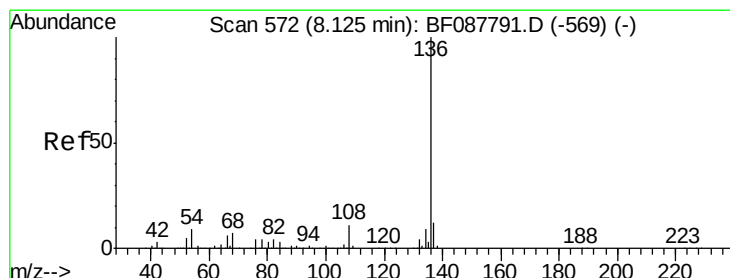
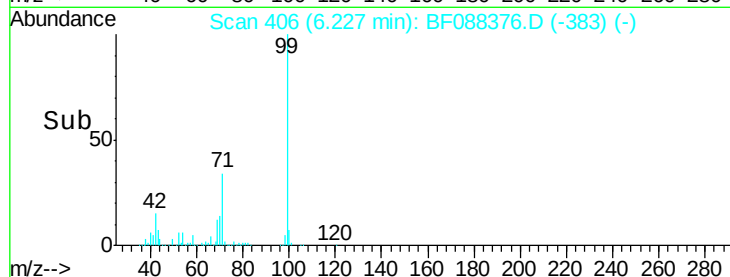
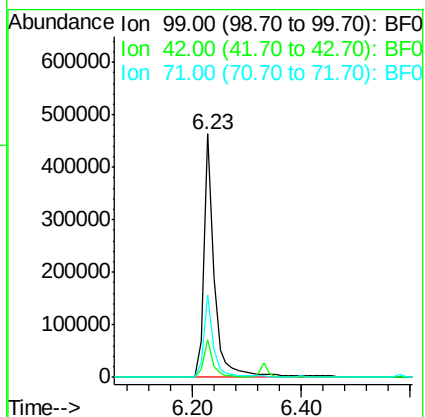
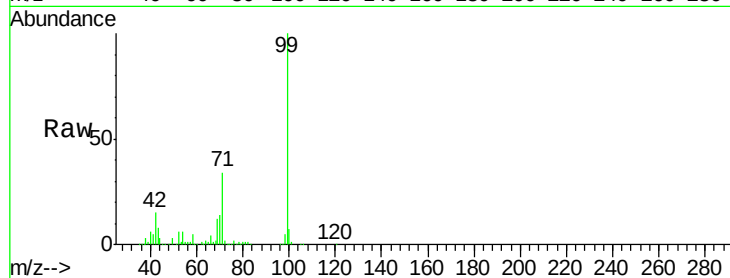
Tot Ion: 99 Resp: 618469

Ion Ratio Lower Upper

99 100

42 15.4 12.2 18.2

71 33.9 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: BF088376.D

Acq: 25 Jun 2016 14:49

Tgt Ion: 136 Resp: 326306

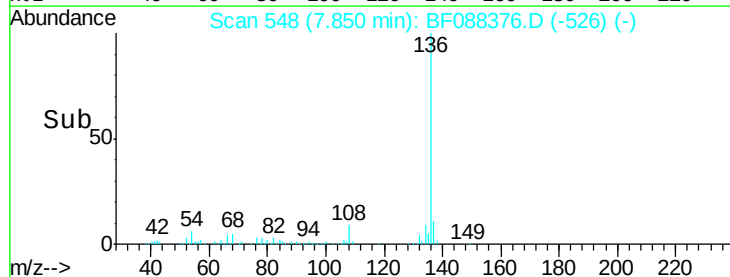
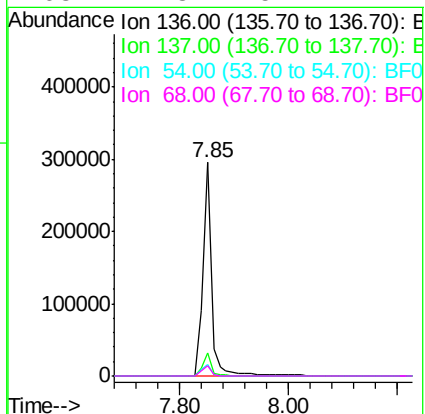
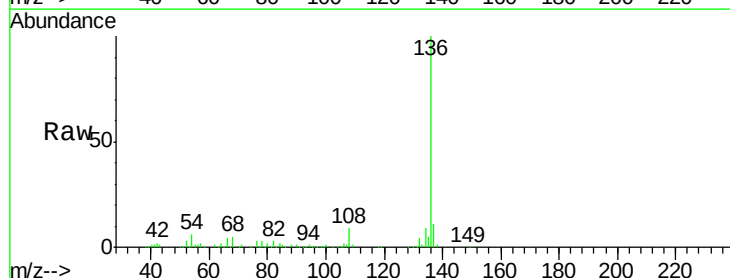
Ion Ratio Lower Upper

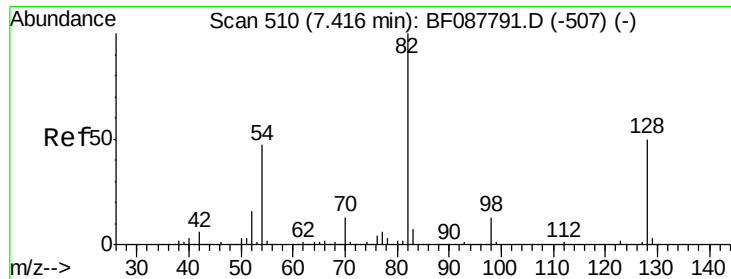
136 100

137 10.7 9.1 13.7

54 5.6 6.6 10.0#

68 4.8 5.1 7.7#

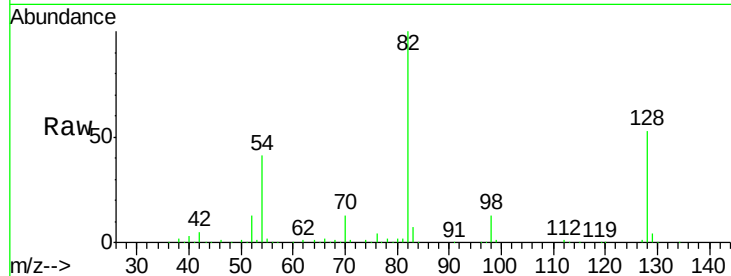




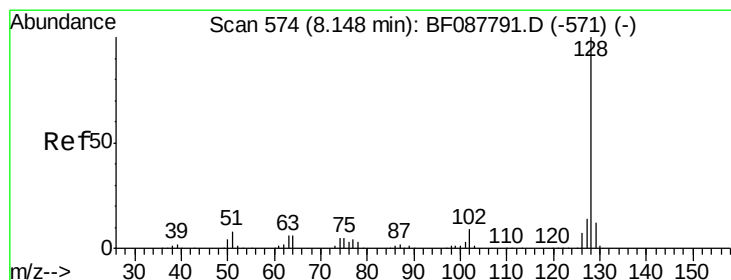
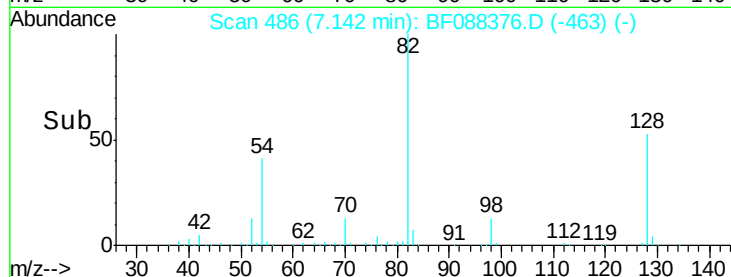
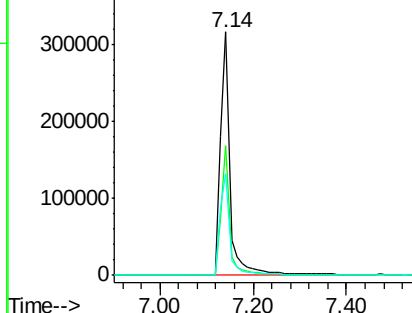
#23
 Nitrobenzene-d5
 Concen: 79.21 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.03 min
 Lab File: BF088376.D
 Acq: 25 Jun 2016 14:49

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1447(0-4)

Tot Ion: 82 Resp: 442606
 Ion Ratio Lower Upper
 82 100
 128 53.4 35.9 53.9
 54 41.4 40.9 61.3

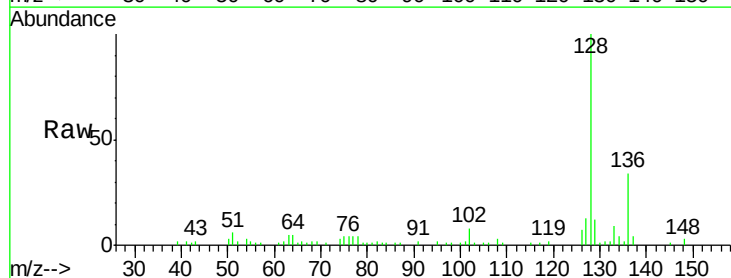


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

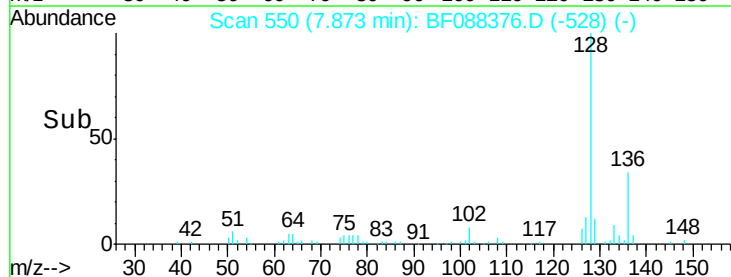
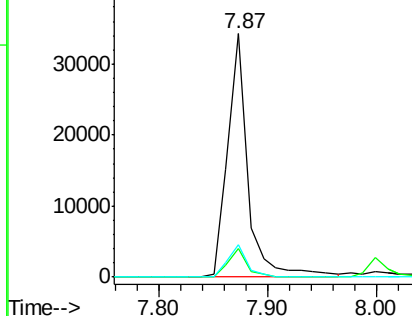


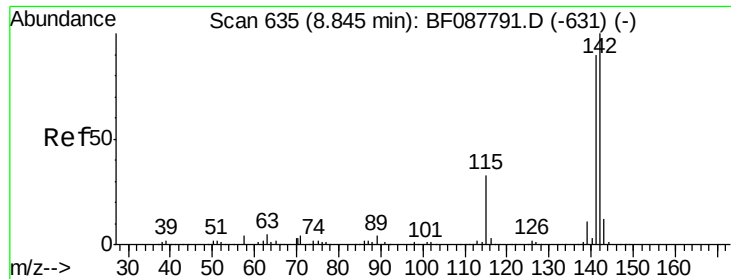
#31
 Naphthalene
 Concen: 2.74 ng
 RT: 7.87 min Scan# 550
 Delta R.T. -0.05 min
 Lab File: BF088376.D
 Acq: 25 Jun 2016 14:49

Tgt Ion: 128 Resp: 44230
 Ion Ratio Lower Upper
 128 100
 129 11.7 9.4 14.2
 127 13.2 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

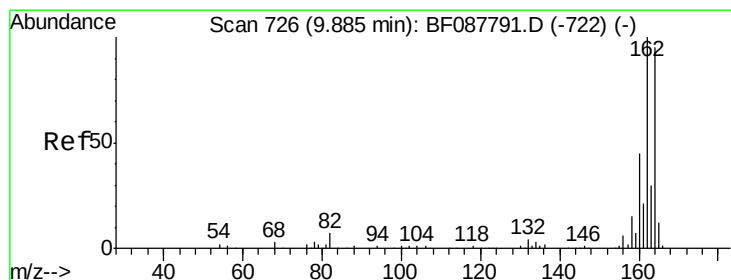
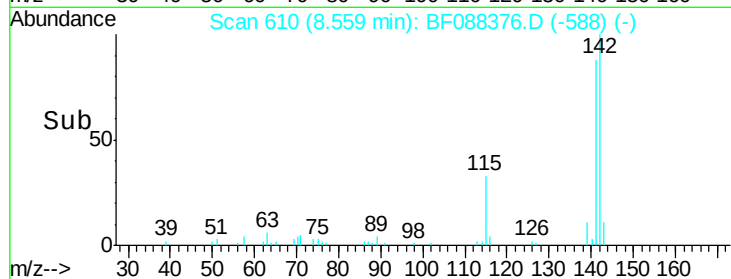
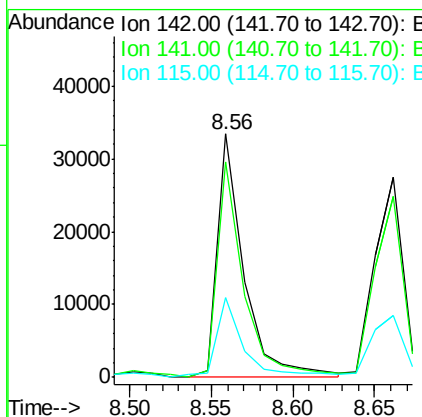
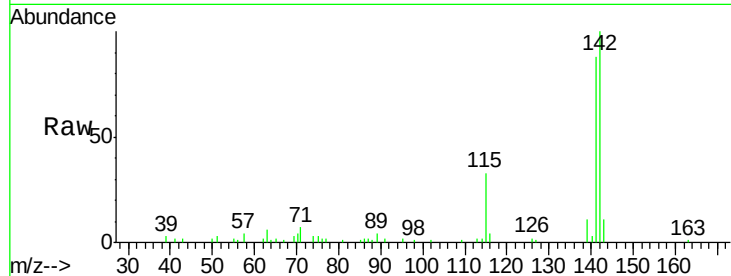




#37
2-Methylnaphthalene
Concen: 3.56 ng
RT: 8.56 min Scan# 610
Delta R.T. -0.05 min
Lab File: BF088376.D
Acq: 25 Jun 2016 14:49

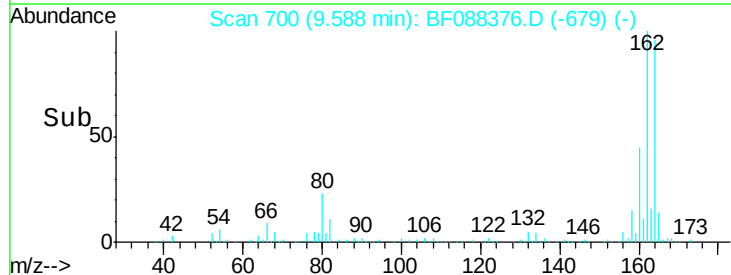
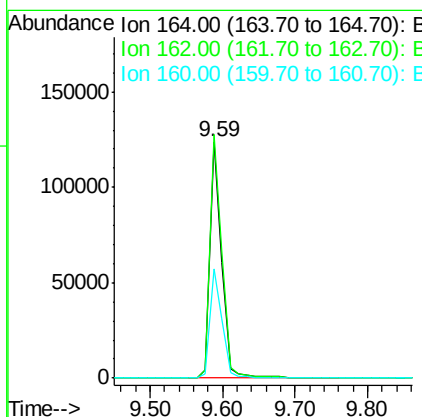
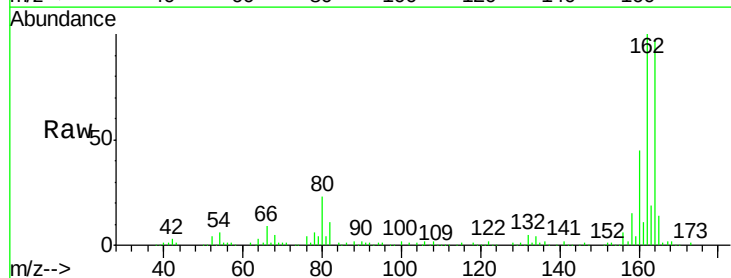
Instrument :
BNA_F
ClientSampleId :
SC-STA-1447(0-4)

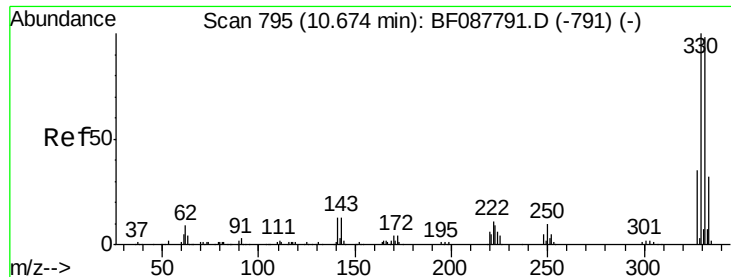
Tot Ion:142 Resp: 37864
Ion Ratio Lower Upper
142 100
141 88.5 71.0 106.6
115 33.0 22.6 33.8



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.06 min
Lab File: BF088376.D
Acq: 25 Jun 2016 14:49

Tgt Ion:164 Resp: 138703
Ion Ratio Lower Upper
164 100
162 103.1 85.4 128.2
160 46.1 39.5 59.3

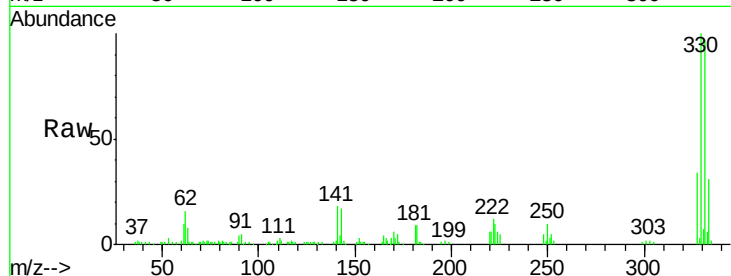




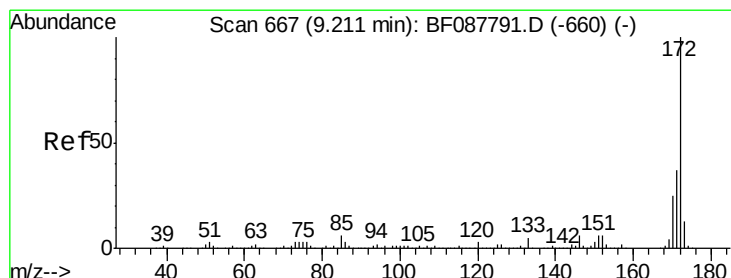
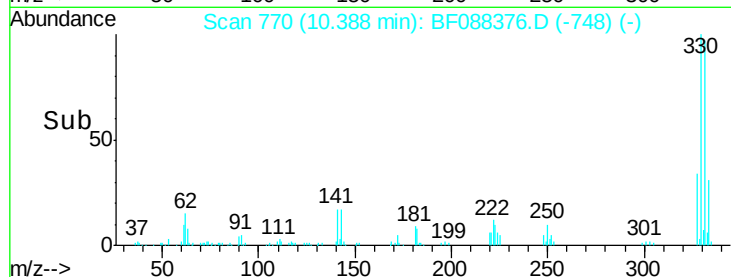
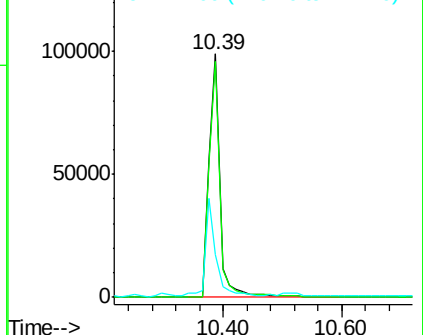
#41
 2,4,6-Tribromophenol
 Concen: 86.52 ng
 RT: 10.39 min Scan# 770
 Delta R.T. -0.05 min
 Lab File: BF088376.D
 Acq: 25 Jun 2016 14:49

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1447(0-4)

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	0.0	0.0#
141	38.7	0.0	0.0#

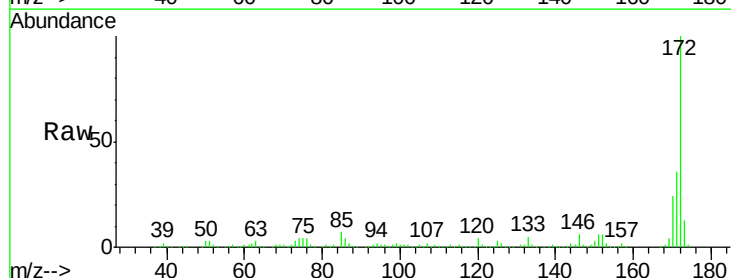


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

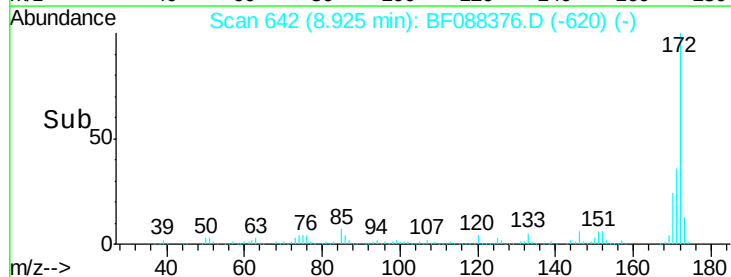
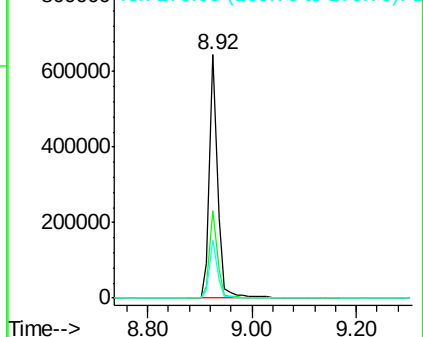


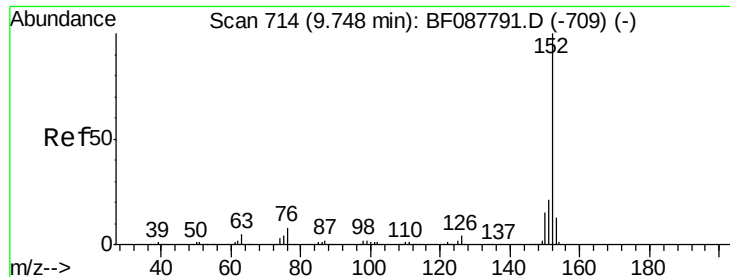
#44
 2-Fluorobiphenyl
 Concen: 80.59 ng
 RT: 8.92 min Scan# 642
 Delta R.T. -0.05 min
 Lab File: BF088376.D
 Acq: 25 Jun 2016 14:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.0	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: 6.68 ng

RT: 9.45 min Scan# 688

Delta R.T. -0.06 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

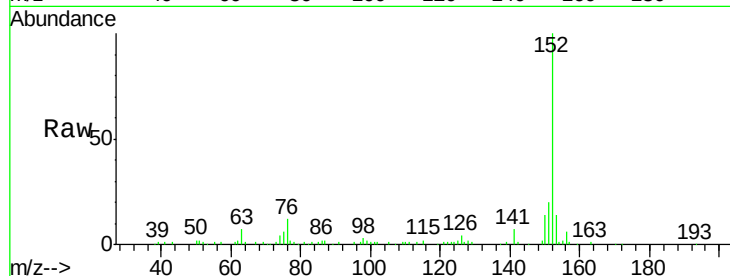
Tot Ion:152 Resp: 95345

Ion Ratio Lower Upper

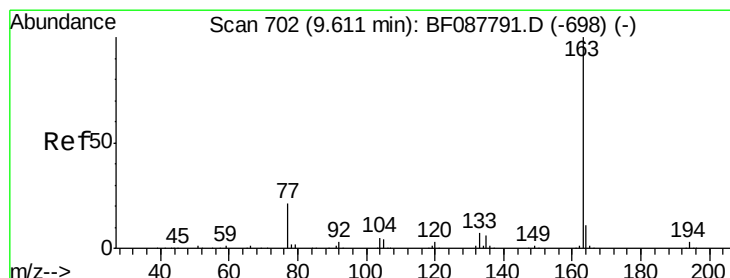
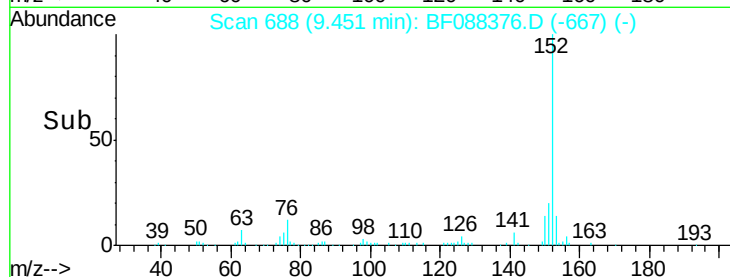
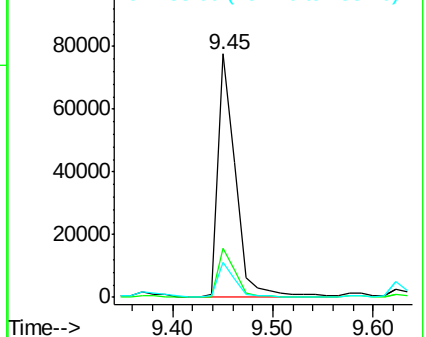
152 100

151 20.0 16.2 24.4

153 14.4 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: 14.63 ng

RT: 9.32 min Scan# 677

Delta R.T. -0.06 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

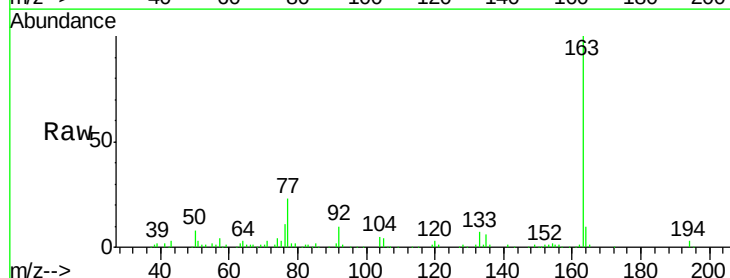
Tgt Ion:163 Resp: 147029

Ion Ratio Lower Upper

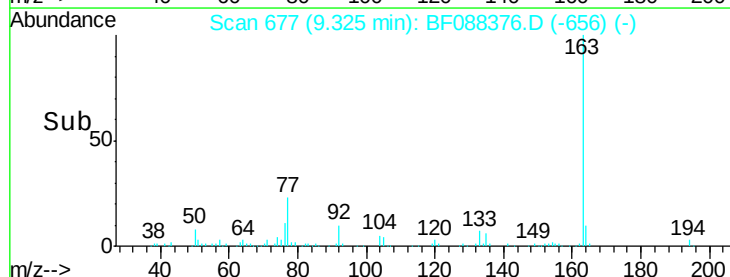
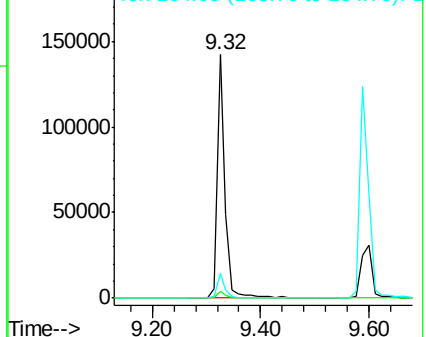
163 100

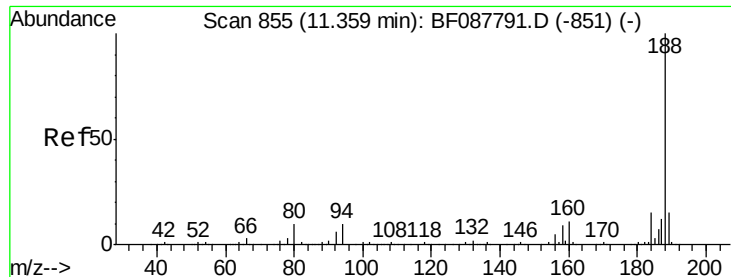
194 2.9 2.8 4.2

164 10.3 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

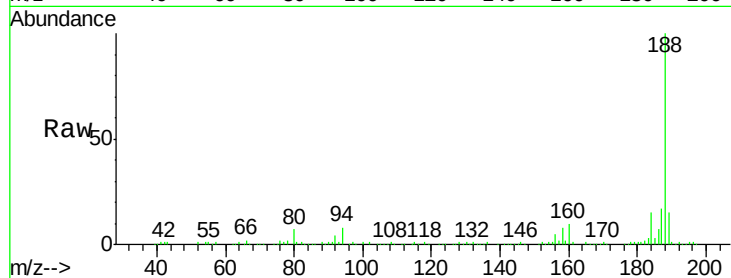




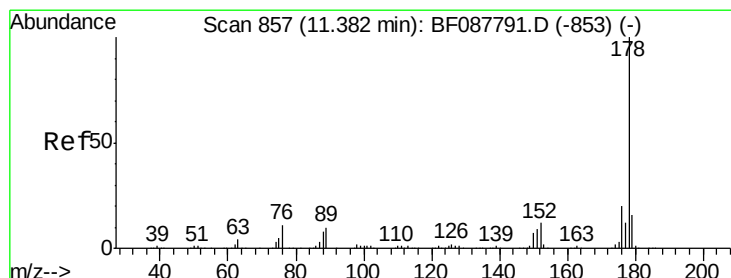
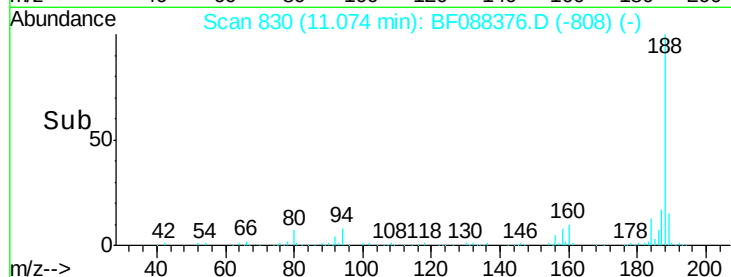
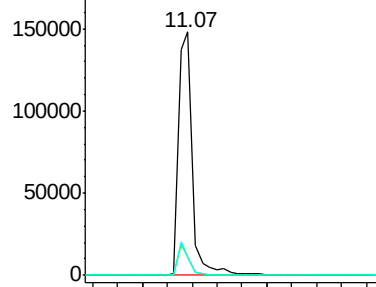
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.07 min Scan# 830
 Delta R.T. -0.05 min
 Lab File: BF088376.D
 Acq: 25 Jun 2016 14:49

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1447(0-4)

Tot Ion:188 Resp: 228517
 Ion Ratio Lower Upper
 188 100
 94 7.5 9.0 13.6#
 80 7.4 10.0 15.0#

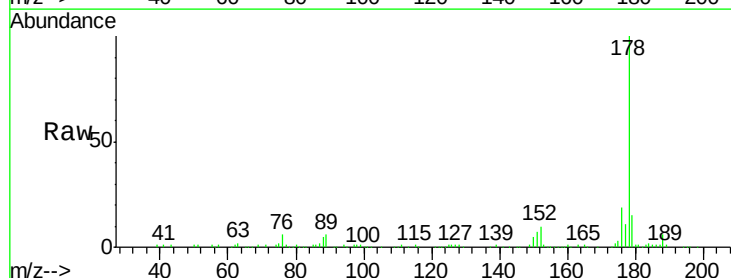


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

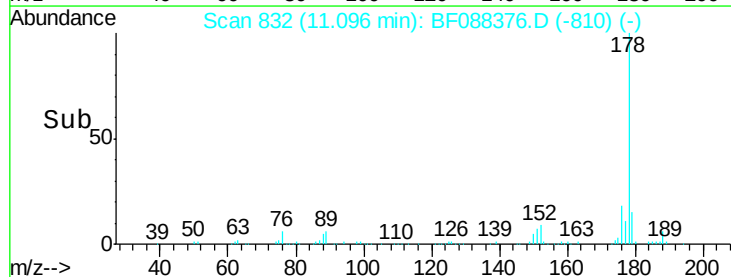
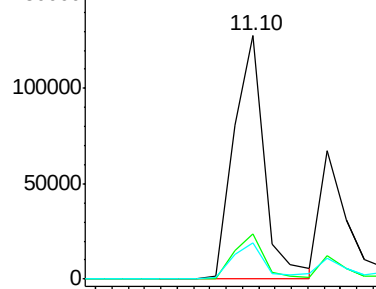


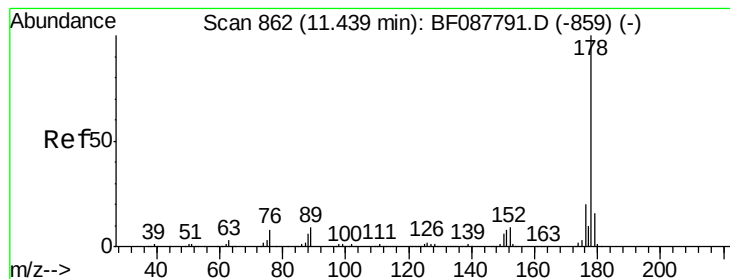
#70
 Phenanthrene
 Concen: 13.86 ng
 RT: 11.10 min Scan# 832
 Delta R.T. -0.05 min
 Lab File: BF088376.D
 Acq: 25 Jun 2016 14:49

Tgt Ion:178 Resp: 166246
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.8 23.6
 179 15.0 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: 7.31 ng

RT: 11.14 min Scan# 836

Delta R.T. -0.06 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

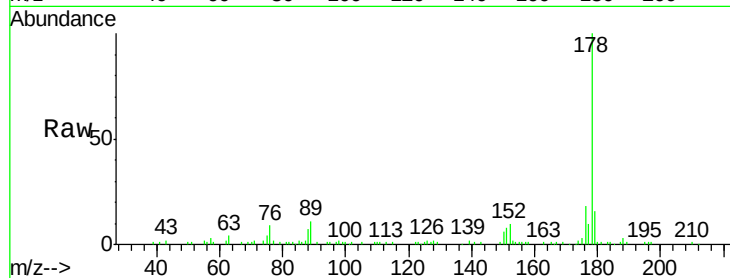
Tot Ion:178 Resp: 88362

Ion Ratio Lower Upper

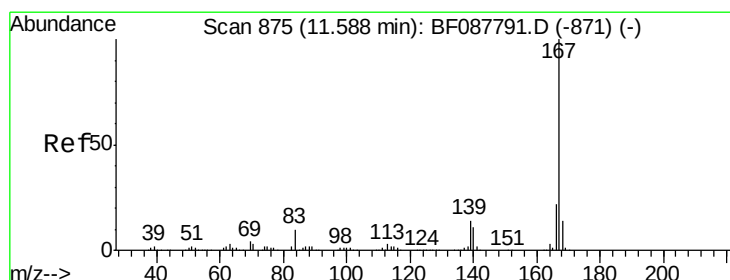
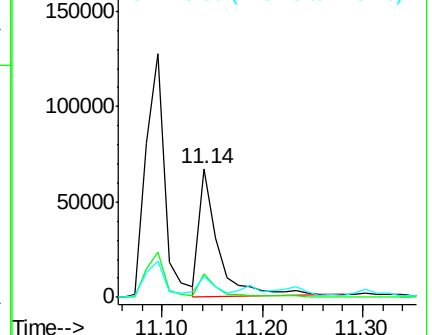
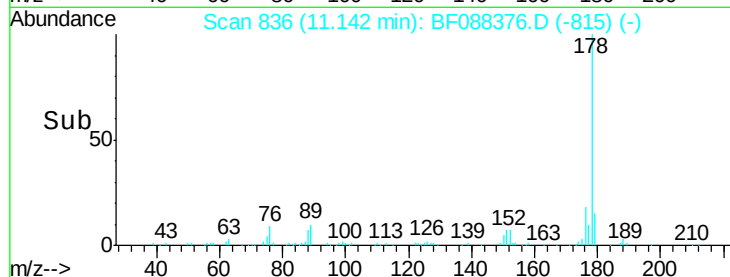
178 100

176 18.2 15.6 23.4

179 16.3 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: 2.31 ng

RT: 11.31 min Scan# 851

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

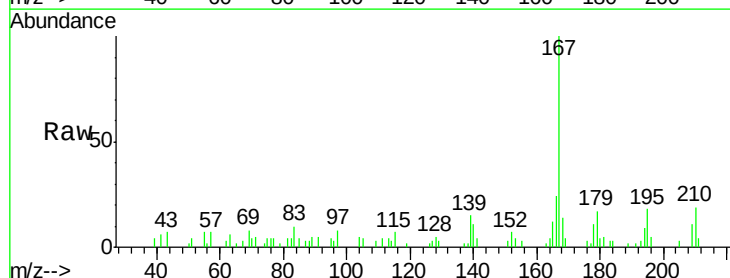
Tgt Ion:167 Resp: 26102

Ion Ratio Lower Upper

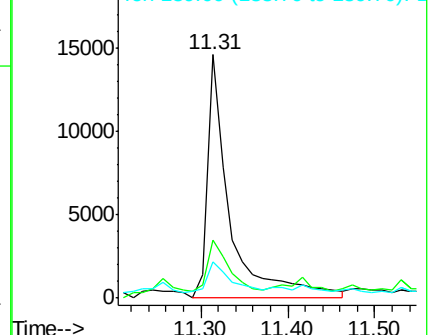
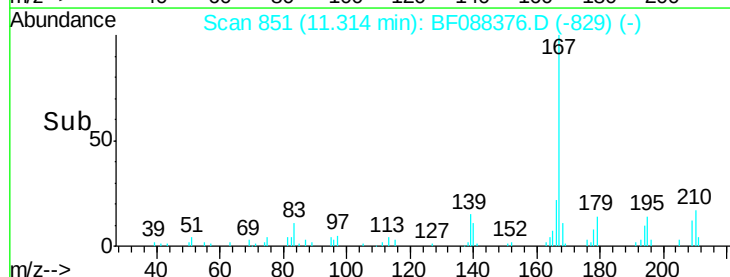
167 100

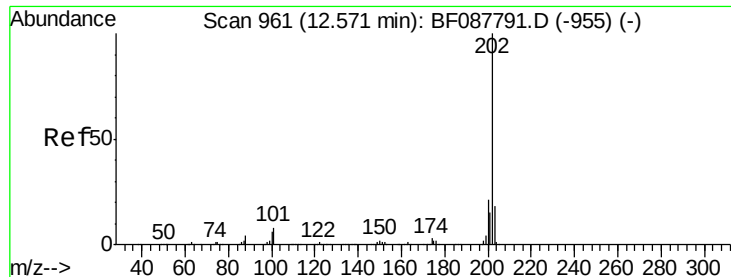
166 24.0 17.8 26.6

139 14.8 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: 35.18 ng

RT: 12.27 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

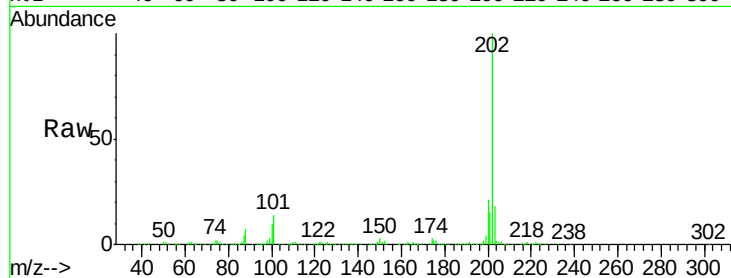
Tot Ion:202 Resp: 445245

Ion Ratio Lower Upper

202 100

101 13.9 0.0 33.1

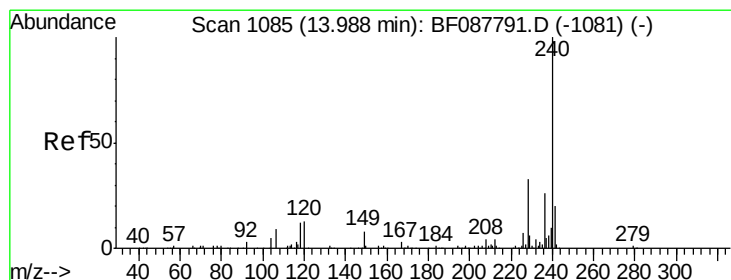
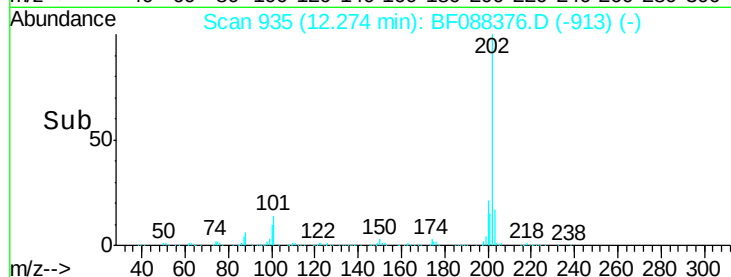
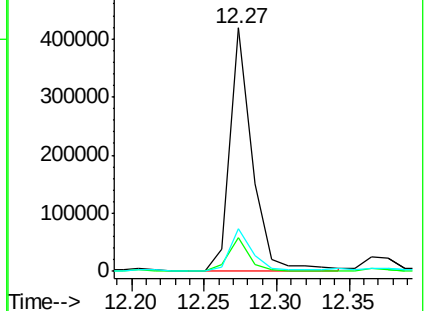
203 17.5 0.0 38.1



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: BF088376.D

Acq: 25 Jun 2016 14:49

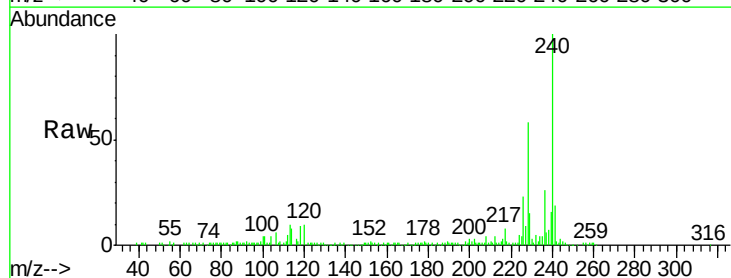
Tgt Ion:240 Resp: 162895

Ion Ratio Lower Upper

240 100

120 9.8 6.8 10.2

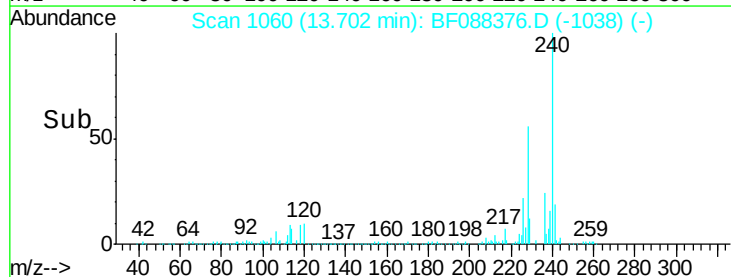
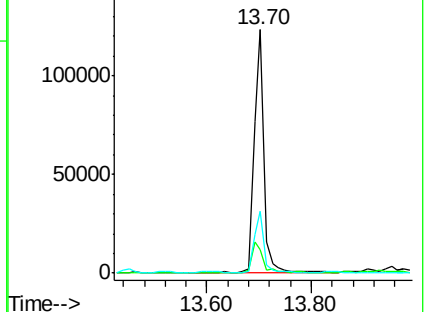
236 25.5 20.2 30.2

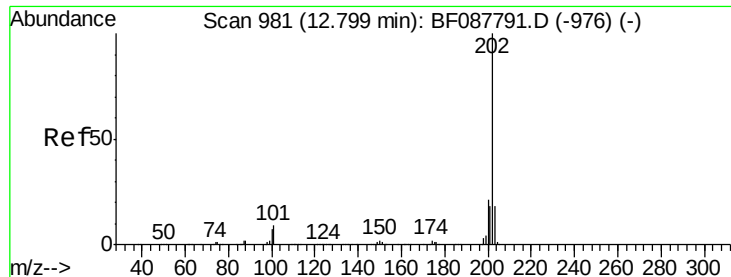


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 36.84 ng

RT: 12.50 min Scan# 955

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

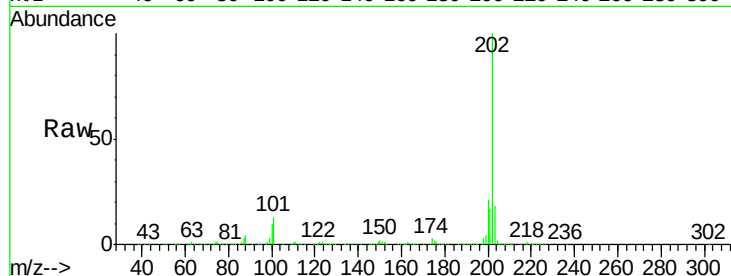
Tot Ion:202 Resp: 445338

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

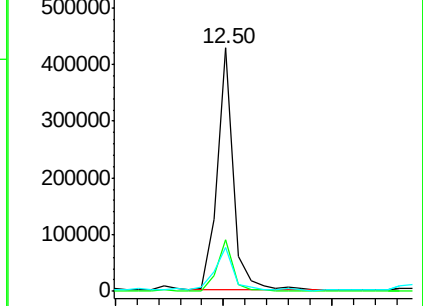
203 17.8 14.5 21.7



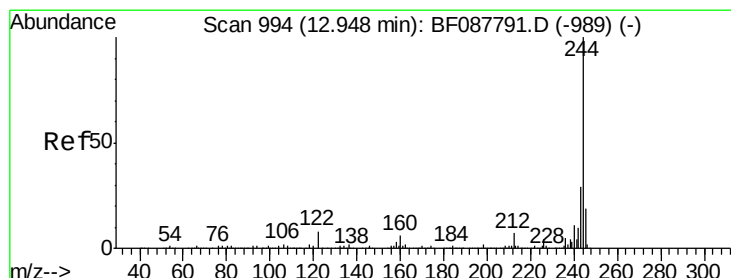
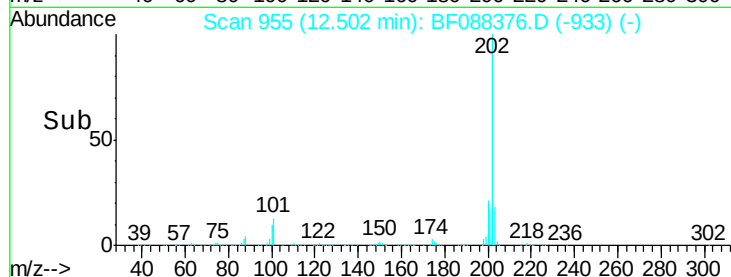
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 12.40 12.50 12.60



#78

Terphenyl-d14

Concen: 66.97 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

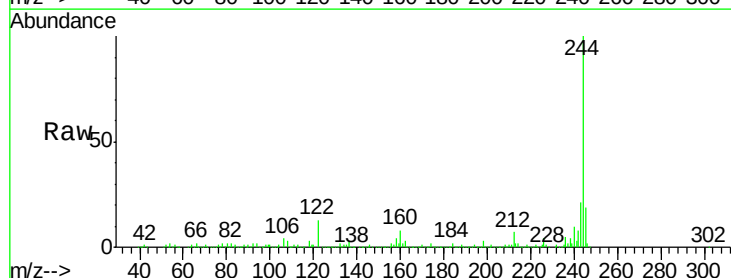
Tgt Ion:244 Resp: 479422

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

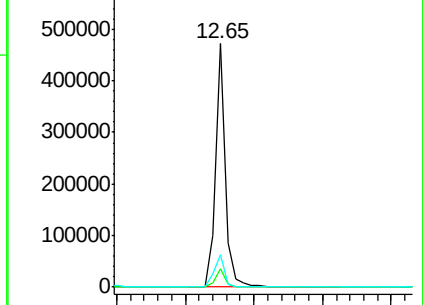
122 13.4 11.2 16.8



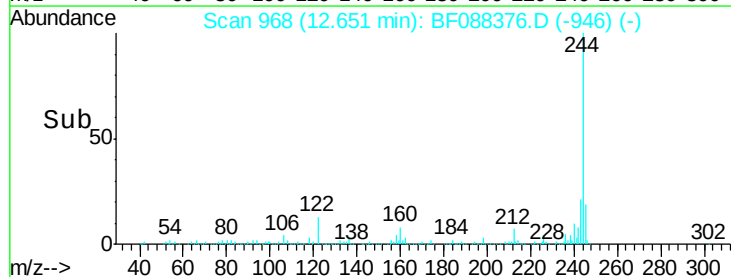
Abundance Ion 244.00 (243.70 to 244.70): E

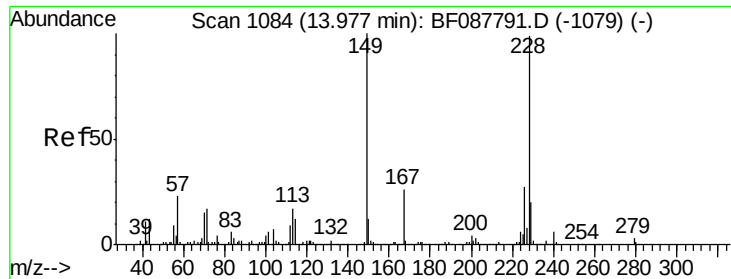
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time--> 12.50 12.60 12.70 12.80





#80

Benzo(a)anthracene

Concen: 27.91 ng m

RT: 13.69 min Scan# 1059

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

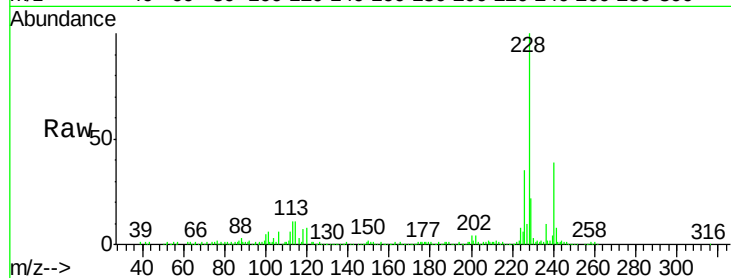
Tot Ion:228 Resp: 259081

Ion Ratio Lower Upper

228 100

226 35.4 22.3 33.5#

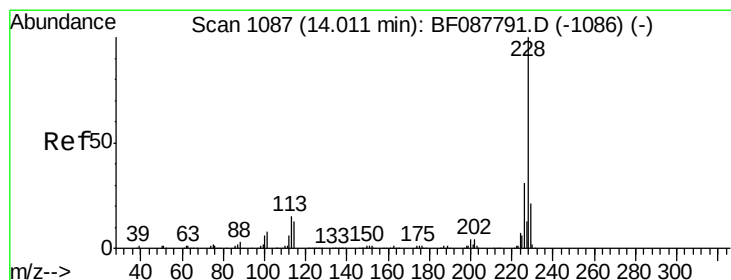
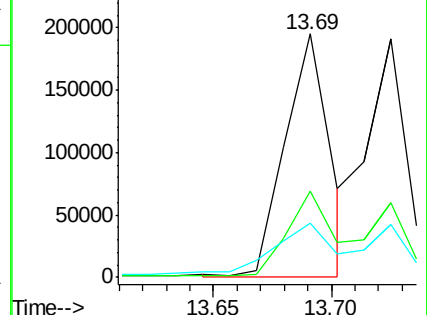
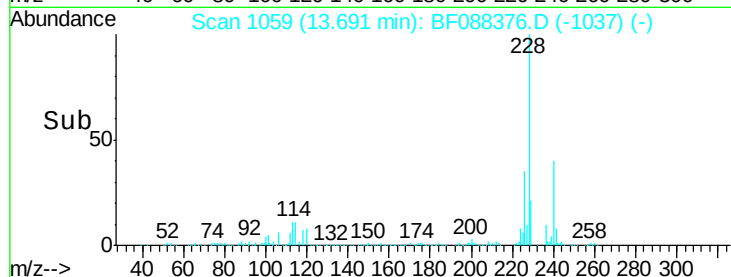
229 22.0 16.0 24.0



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



#82

Chrysene

Concen: 26.76 ng m

RT: 13.73 min Scan# 1062

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

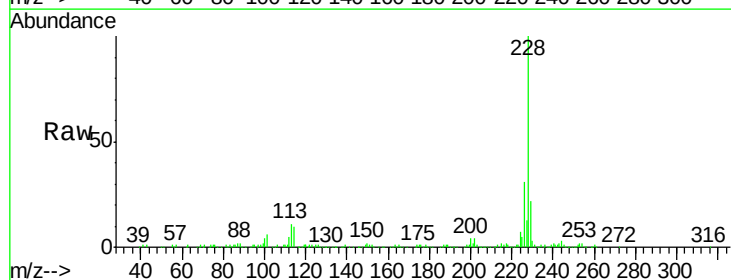
Tgt Ion:228 Resp: 233672

Ion Ratio Lower Upper

228 100

226 31.1 25.4 38.2

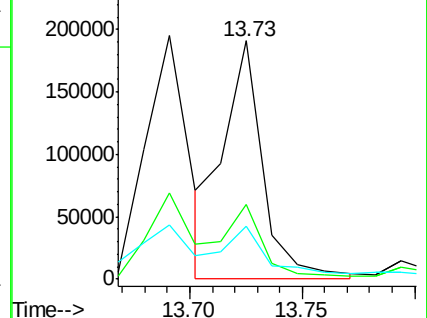
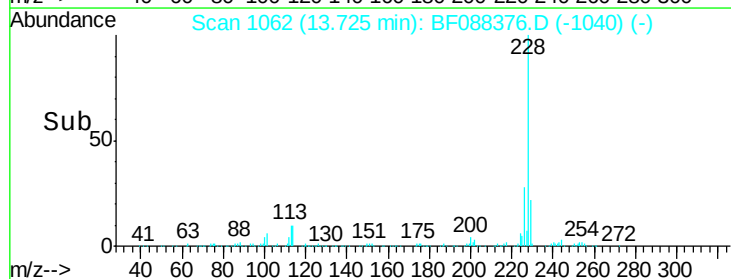
229 22.4 16.3 24.5

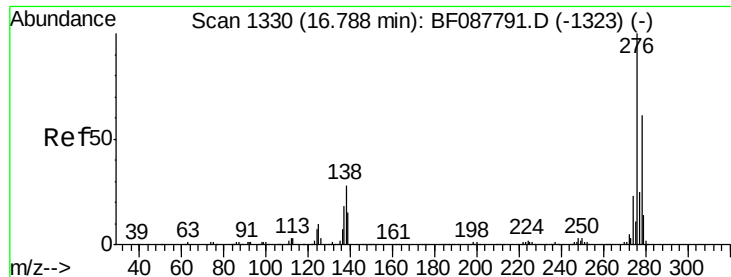


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

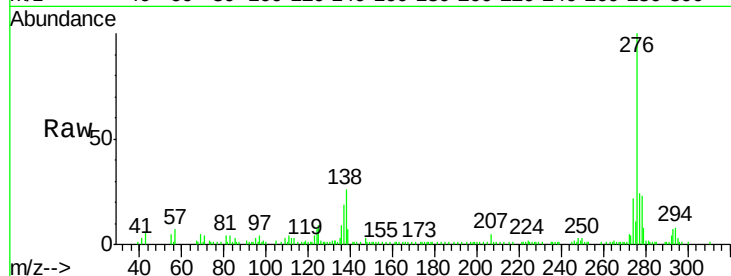




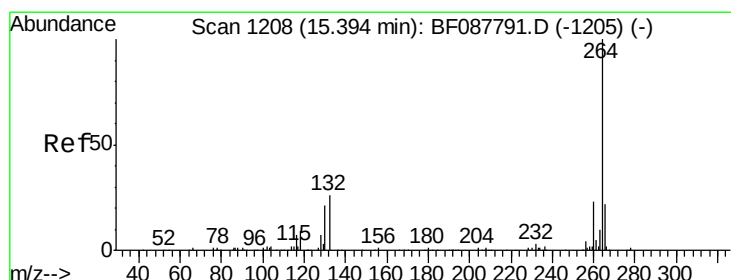
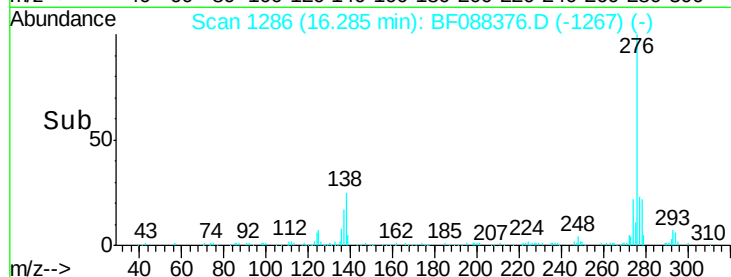
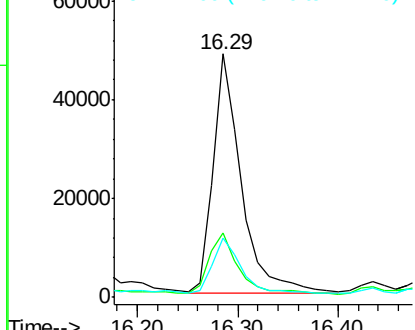
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.65 ng
 RT: 16.29 min Scan# 1286
 Delta R.T. -0.08 min
 Lab File: BF088376.D
 Acq: 25 Jun 2016 14:49

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1447(0-4)

Tot Ion:276 Resp: 94564
 Ion Ratio Lower Upper
 276 100
 138 26.7 0.0 0.0#
 277 23.3 0.0 0.0#

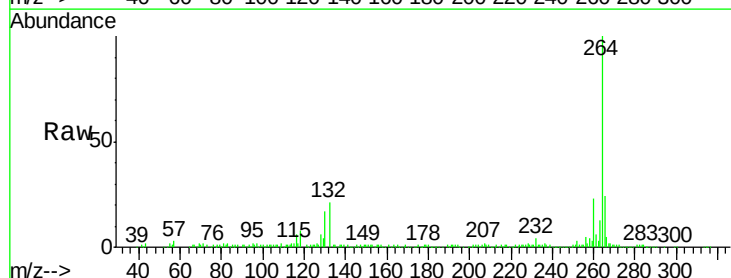


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

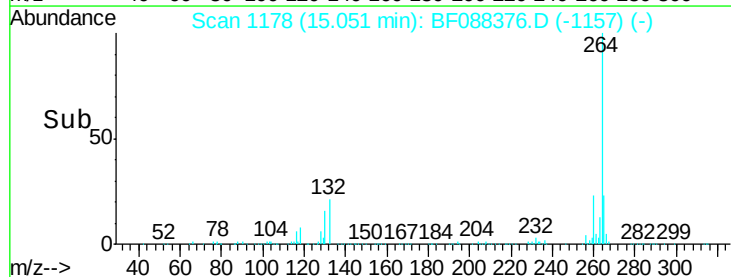
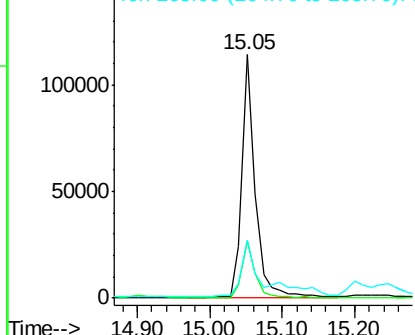


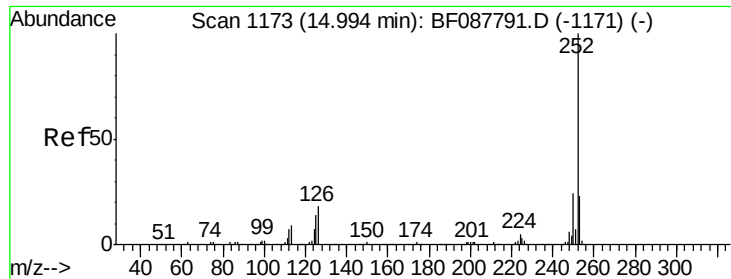
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.05 min Scan# 1178
 Delta R.T. -0.06 min
 Lab File: BF088376.D
 Acq: 25 Jun 2016 14:49

Tgt Ion:264 Resp: 149460
 Ion Ratio Lower Upper
 264 100
 260 23.2 19.2 28.8
 265 23.6 16.9 25.3



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





#87

Benzo(b)fluoranthene

Concen: 32.73 ng m

RT: 14.70 min Scan# 1147

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

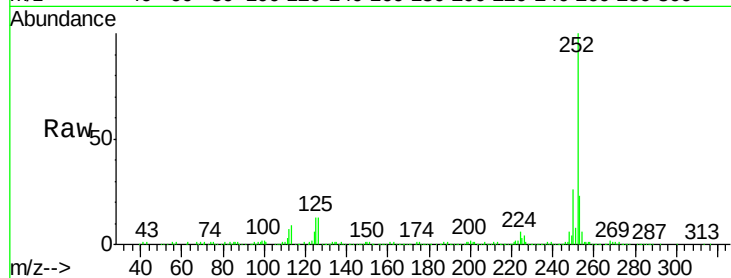
Tot Ion:252 Resp: 340936

Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.2

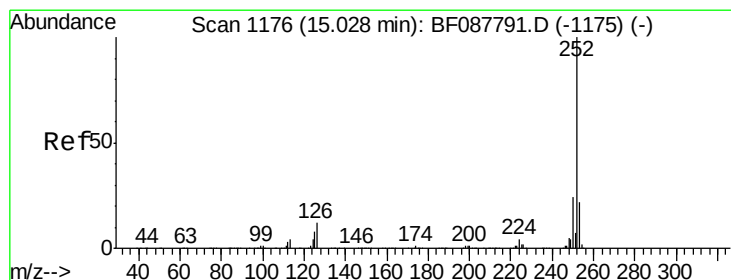
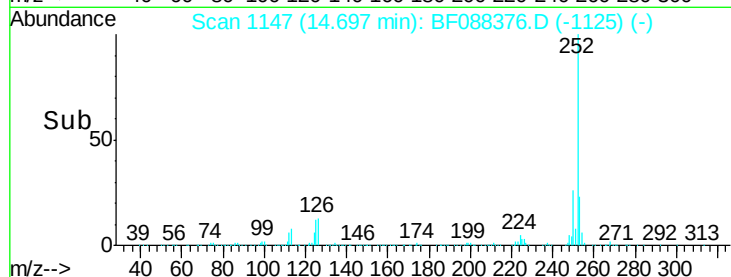
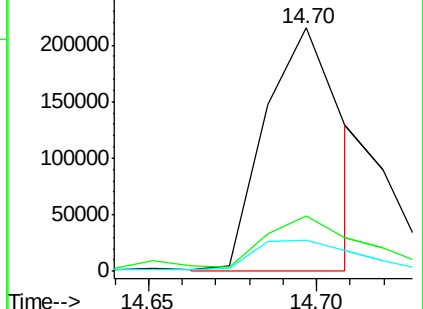
125 12.9 7.1 10.7#



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



#88

Benzo(k)fluoranthene

Concen: 11.13 ng m

RT: 14.71 min Scan# 1148

Delta R.T. -0.06 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

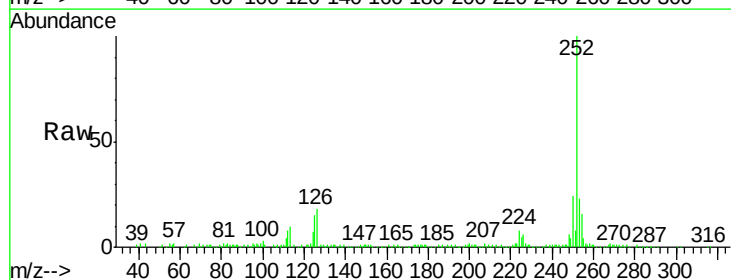
Tgt Ion:252 Resp: 87473

Ion Ratio Lower Upper

252 100

253 22.9 18.0 27.0

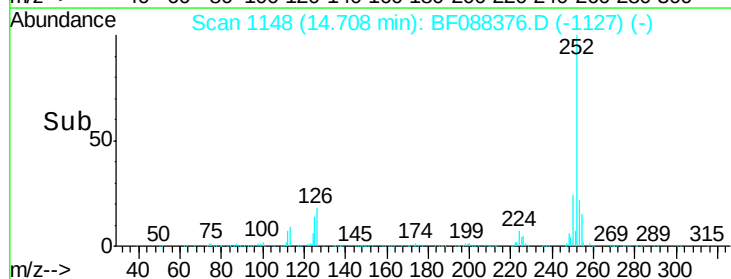
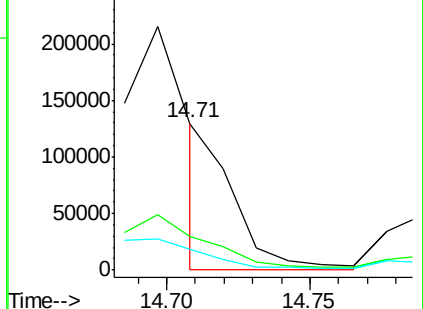
125 14.6 11.2 16.8

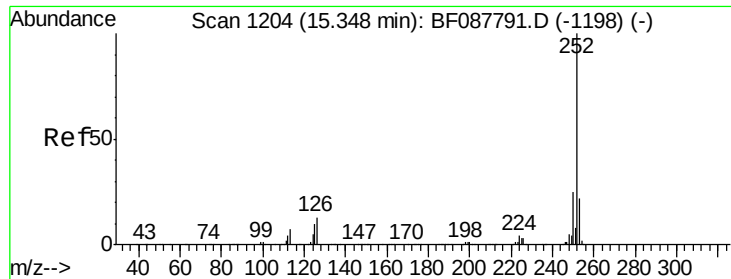


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 22.26 ng/mL

RT: 15.01 min Scan# 1174

Delta R.T. -0.05 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument:

BNA_F

ClientSampleId:

SC-STA-1447(0-4)

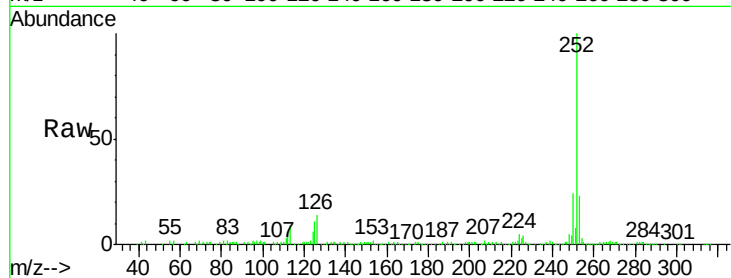
Tot Ion: 252 Resp: 187574

Ion Ratio Lower Upper

252 100

253 22.9 17.9 26.9

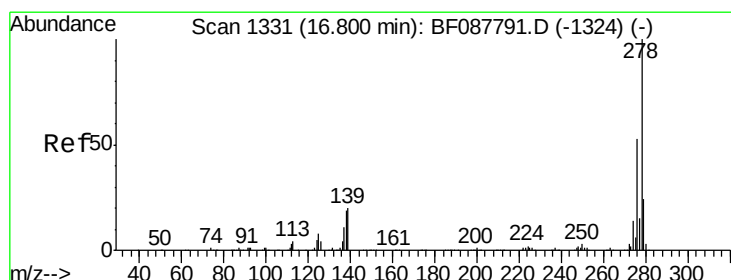
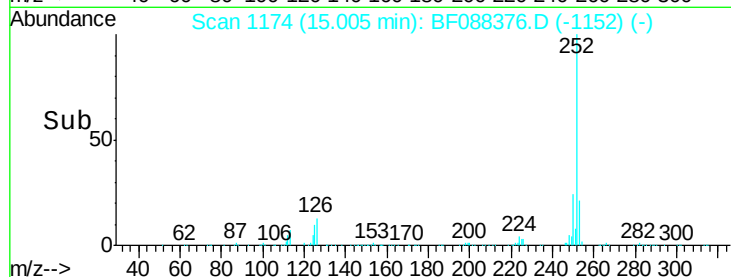
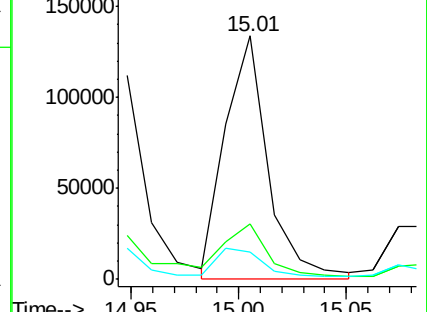
125 11.2 12.5 18.7#



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: 3.51 ng/mL

RT: 16.29 min Scan# 1286

Delta R.T. -0.08 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

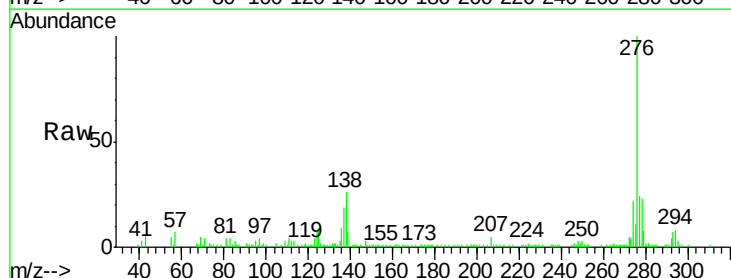
Tgt Ion: 278 Resp: 27456

Ion Ratio Lower Upper

278 100

139 29.8 15.7 23.5#

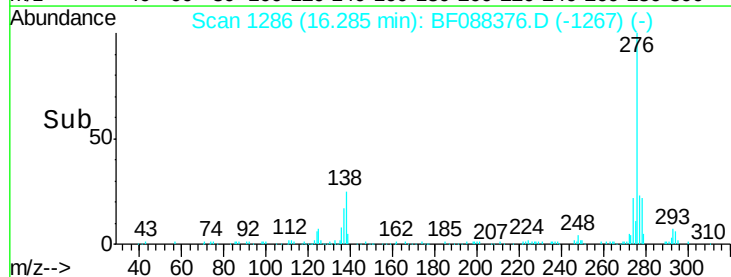
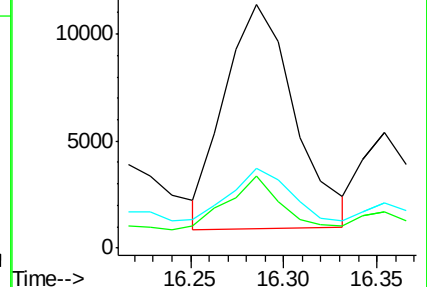
279 32.5 19.4 29.2#

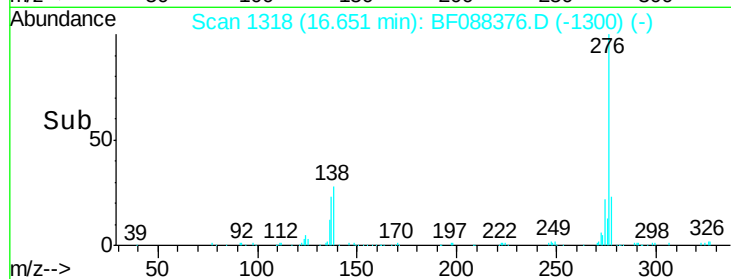
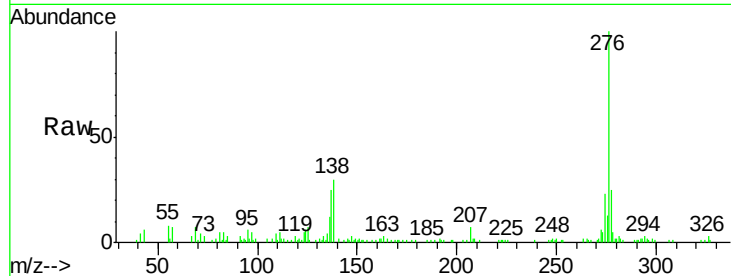
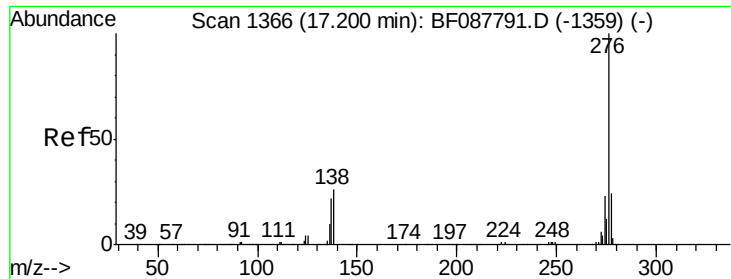


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 9.65 ng

RT: 16.65 min Scan# 1318

Delta R.T. -0.09 min

Lab File: BF088376.D

Acq: 25 Jun 2016 14:49

Instrument :

BNA_F

ClientSampleId :

SC-STA-1447(0-4)

Tot Ion: 276 Resp: 77715

Ion Ratio Lower Upper

276 100

277 25.2 18.9 28.3

138 29.7 21.4 32.2

