

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101816\
 Data File : BF090629.D
 Acq On : 18 Oct 2016 15:51
 Operator : UM/SJ
 Sample : H5304-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-TP

Quant Time: Oct 19 01:05:47 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 17 19:19:58 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	223895	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	965085	20.00	ng	-0.01
38) Acenaphthene-d10	9.95	164	457755	20.00	ng	-0.01
63) Phenanthrene-d10	11.43	188	642498	20.00	ng	-0.01
75) Chrysene-d12	14.08	240	511324	20.00	ng	-0.01
86) Perylene-d12	15.55	264	558591	20.00	ng	0.01

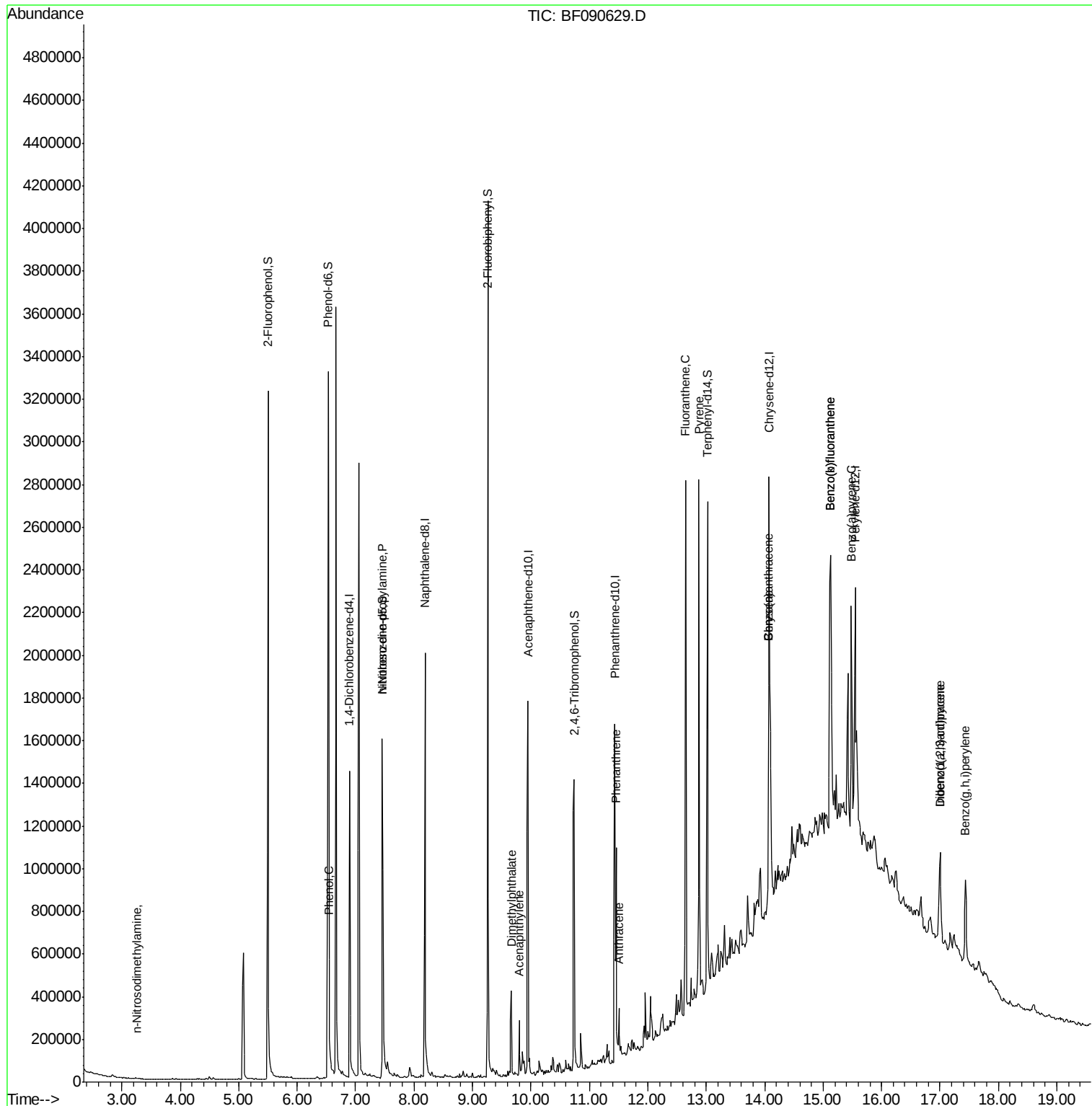
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	969533	79.39	ng	-0.01
7) Phenol-d6	6.53	99	1284427	70.78	ng	-0.01
23) Nitrobenzene-d5	7.46	82	799832	46.04	ng	-0.02
41) 2,4,6-Tribromophenol	10.74	330	222913	54.62	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	1208650	43.51	ng	-0.01
78) Terphenyl-d14	13.02	244	859758	39.15	ng	-0.01

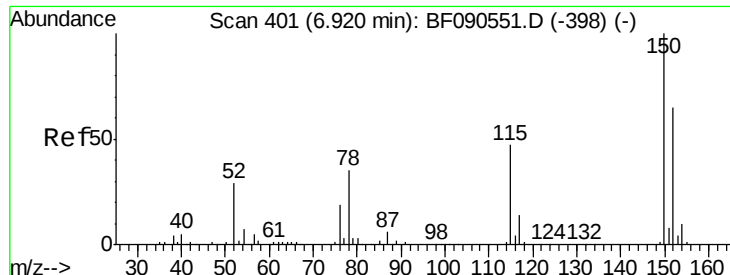
Target Compounds						Qvalue
4) n-Nitrosodimethylamine	3.25	42	863	7.30	ng	# 1
10) Phenol	6.54	94	48794	2.35	ng	95
19) n-Nitroso-di-n-propylamine	7.46	70	90449	7.27	ng	# 83
48) Acenaphthylene	9.80	152	116000	2.80	ng	98
49) Dimethylphthalate	9.66	163	198324	6.68	ng	97
70) Phenanthrene	11.46	178	396010	11.55	ng	99
71) Anthracene	11.50	178	119647	3.24	ng	99
74) Fluoranthene	12.65	202	947001	27.45	ng	94
77) Pyrene	12.87	202	942740	27.84	ng	99
80) Benzo(a)anthracene	14.06	228	942082	32.36	ng	# 90
82) Chrysene	14.06	228	942082	33.59	ng	93
85) Indeno(1,2,3-cd)pyrene	17.00	276	330275	20.37	ng	94
87) Benzo(b)fluoranthene	15.13	252	1020969	27.93	ng	99
88) Benzo(k)fluoranthene	15.13	252	1020969	25.96	ng	# 96
89) Benzo(a)pyrene	15.48	252	538415	16.09	ng	96
90) Dibenzo(a,h)anthracene	17.00	278	57270	2.24	ng	# 71
91) Benzo(g,h,i)perylene	17.44	276	310425	12.76	ng	95

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

```
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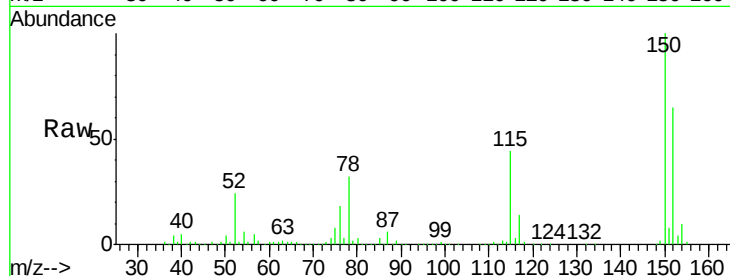


#1

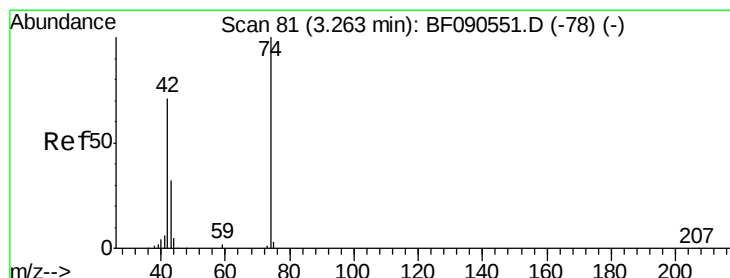
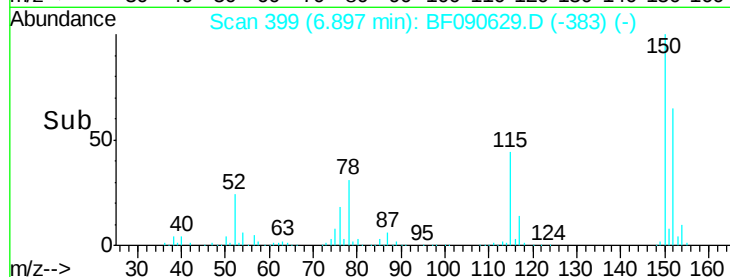
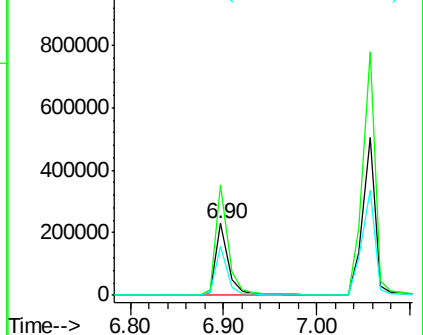
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 399
Delta R.T. -0.01 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

Instrument :
BNA_F
ClientSampleId :
COMP-TP

Tgt Ion:152 Resp: 223895
Ion Ratio Lower Upper
152 100
150 154.0 127.2 190.8
115 67.4 58.6 88.0



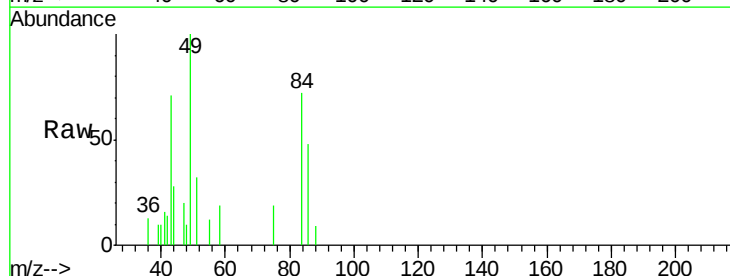
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



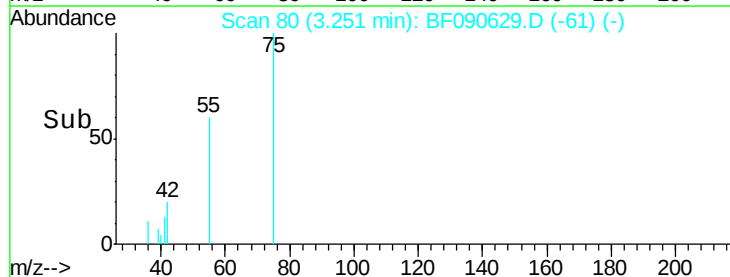
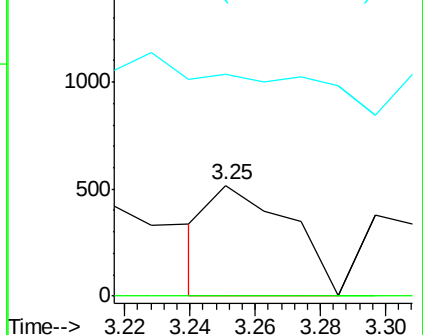
#4

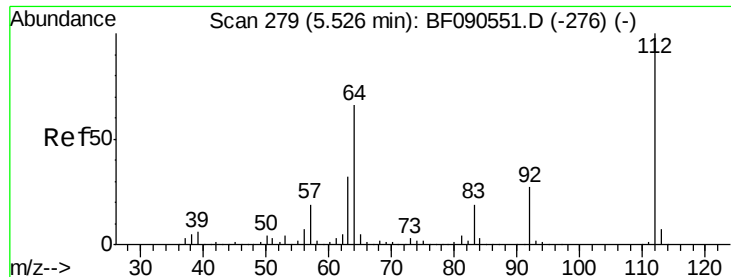
n-Nitrosodimethylamine
Concen: 7.30 ng
RT: 3.25 min Scan# 80
Delta R.T. 0.02 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

Tgt Ion: 42 Resp: 863
Ion Ratio Lower Upper
42 100
74 0.0 113.3 169.9#
44 200.6 6.0 9.0#



Abundance Ion 42.00 (41.70 to 42.70): BF0
Ion 74.00 (73.70 to 74.70): BF0
Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 79.39 ng

RT: 5.50 min Scan# 277

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

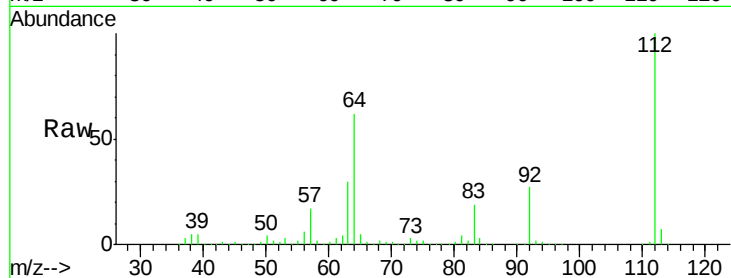
Tgt Ion: 112 Resp: 969533

Ion Ratio Lower Upper

112 100

64 62.4 52.6 78.8

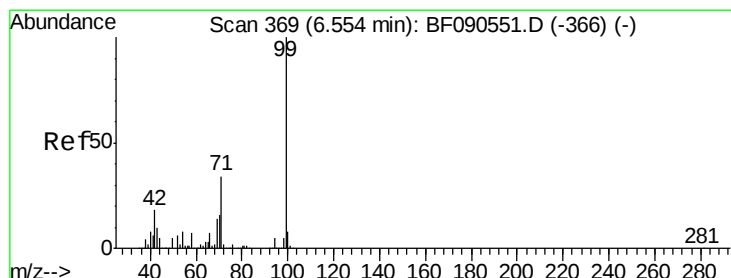
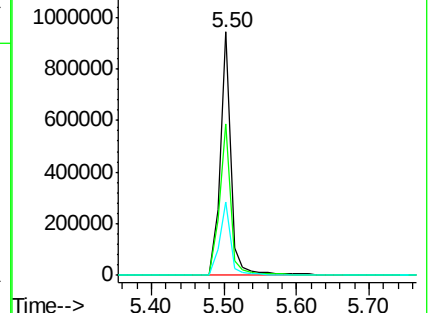
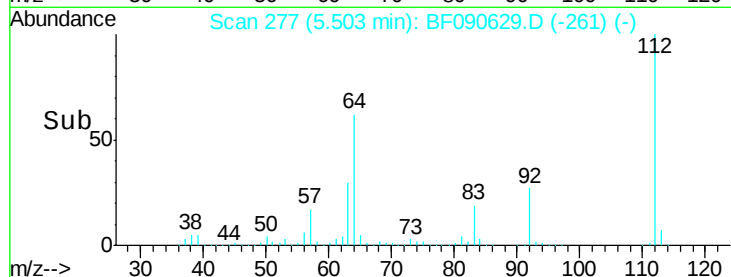
63 30.2 26.0 39.0



Abundance Ion 112.00 (111.70 to 112.70): BF0

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 70.78 ng

RT: 6.53 min Scan# 367

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

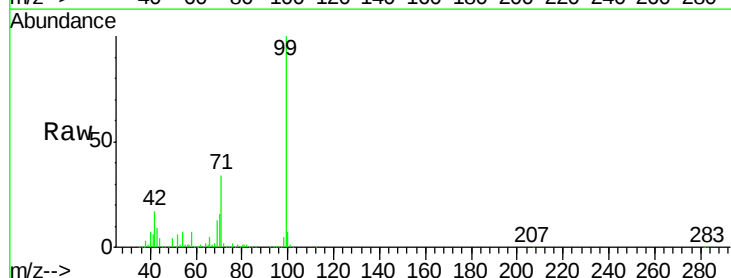
Tgt Ion: 99 Resp: 1284427

Ion Ratio Lower Upper

99 100

42 17.1 14.7 22.1

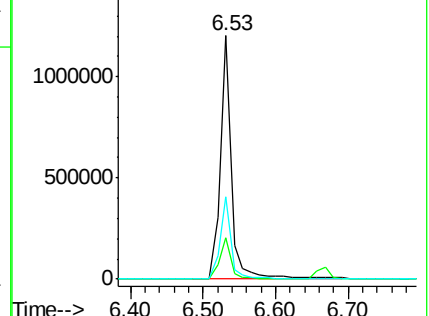
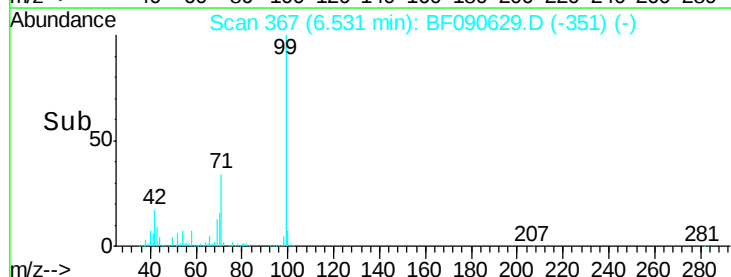
71 33.6 27.6 41.4

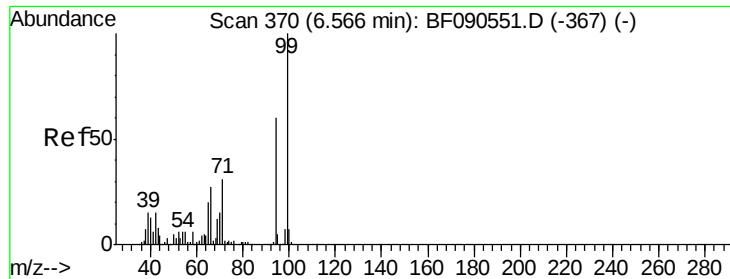


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#10

Phenol

Concen: 2.35 ng

RT: 6.54 min Scan# 368

Delta R.T. -0.02 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

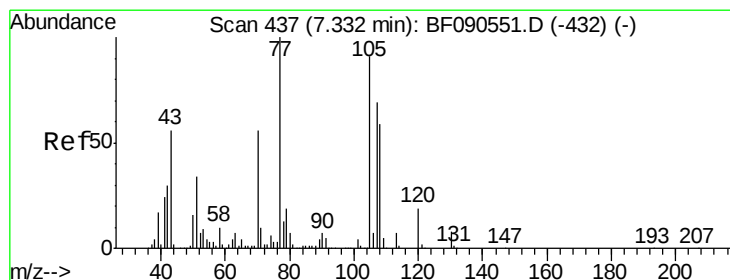
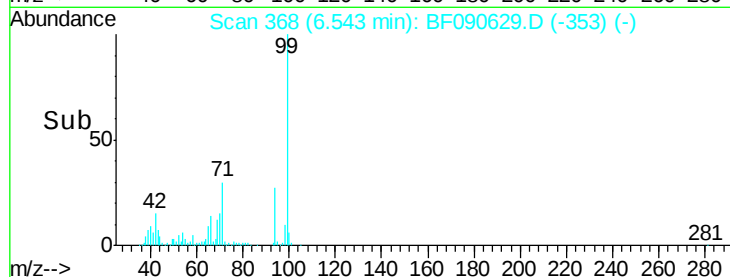
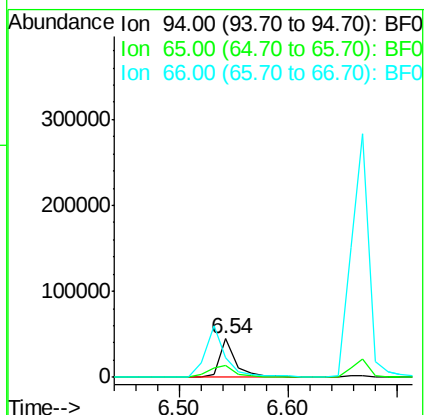
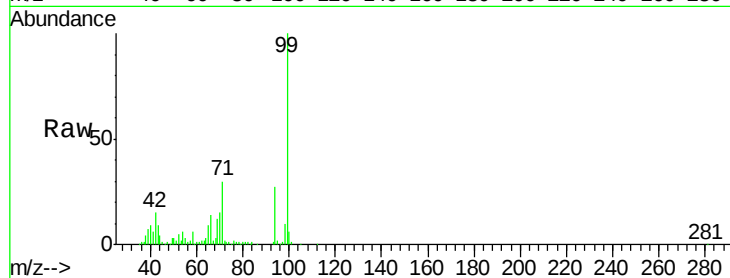
Tgt Ion: 94 Resp: 48794

Ion Ratio Lower Upper

94 100

65 32.2 12.5 52.5

66 51.4 25.5 65.5



#19

n-Nitroso-di-n-propylamine

Concen: 7.27 ng

RT: 7.46 min Scan# 448

Delta R.T. 0.13 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Tgt Ion: 70 Resp: 90449

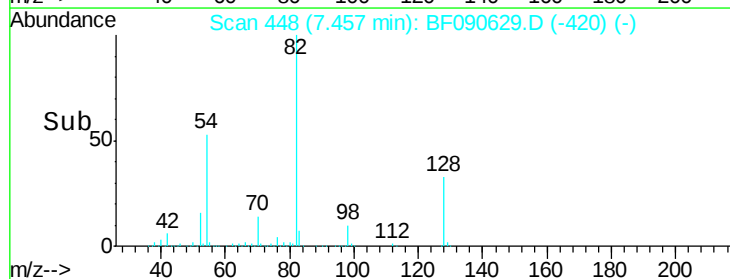
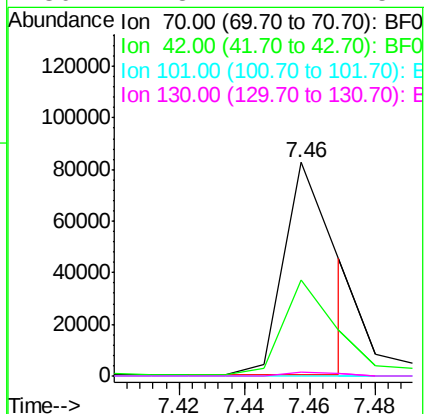
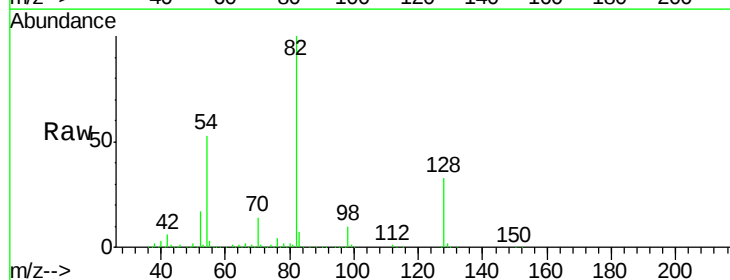
Ion Ratio Lower Upper

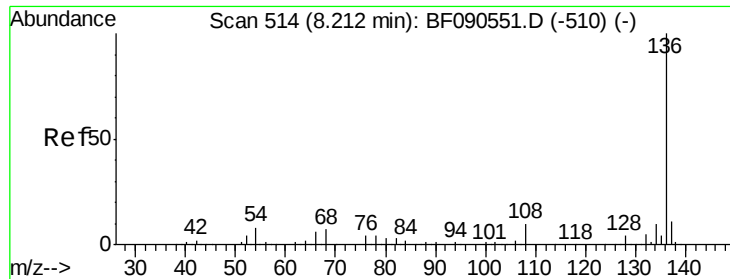
70 100

42 45.1 43.4 65.0

101 0.0 6.4 9.6#

130 1.8 12.1 18.1#

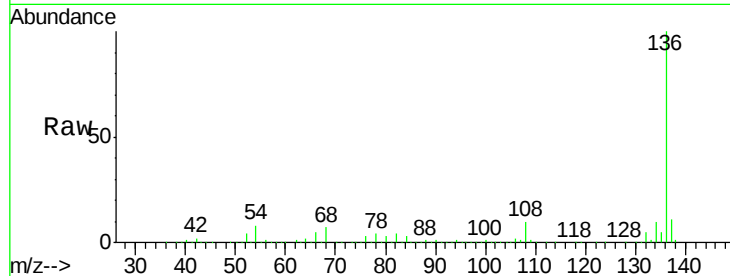




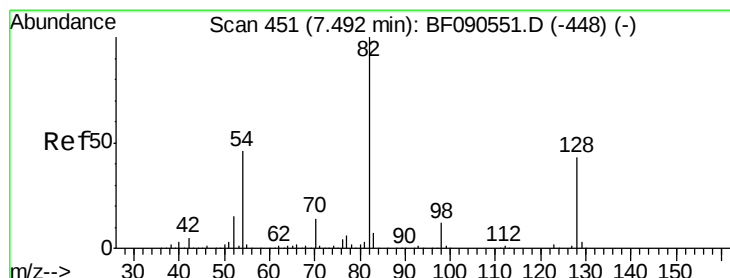
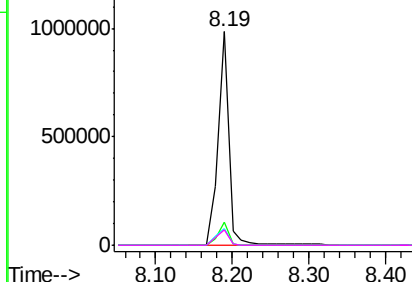
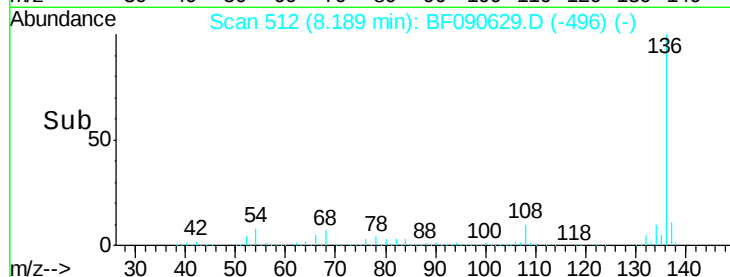
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.19 min Scan# 512
Delta R.T. -0.01 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

Instrument :
BNA_F
ClientSampleId :
COMP-TP

Tgt Ion:	136	Resp:	965085
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	8.1	6.8	10.2
68	7.0	6.0	9.0

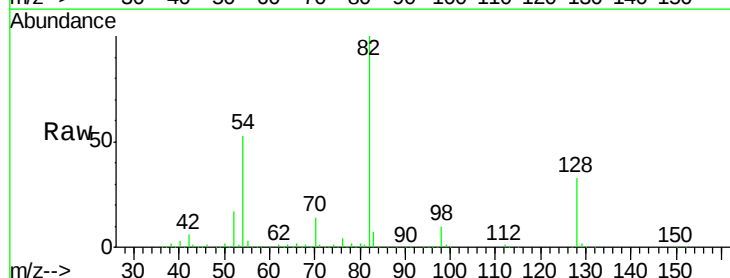


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

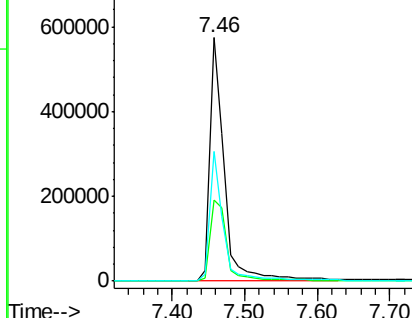
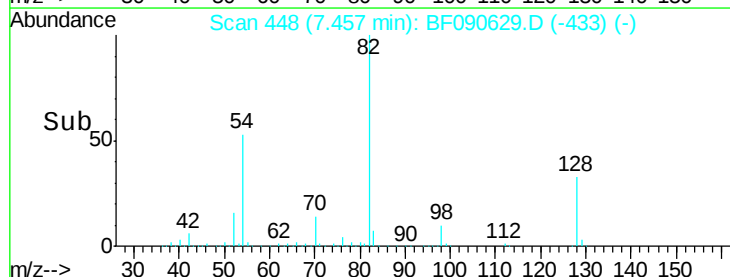


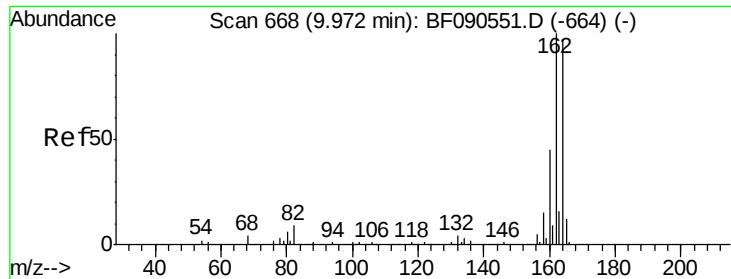
#23
Nitrobenzene-d5
Concen: 46.04 ng
RT: 7.46 min Scan# 448
Delta R.T. -0.02 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

Tgt Ion:	82	Resp:	799832
Ion	Ratio	Lower	Upper
82	100		
128	33.3	34.3	51.5#
54	53.4	37.0	55.6



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.95 min Scan# 666

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

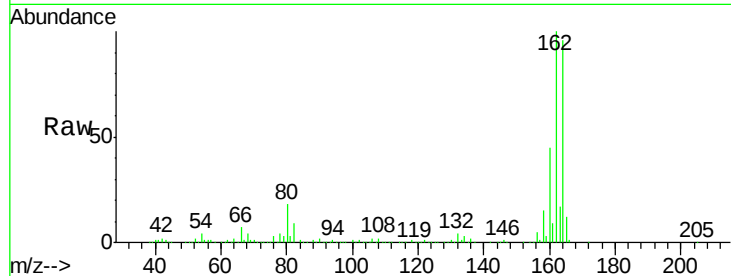
Tgt Ion:164 Resp: 457755

Ion Ratio Lower Upper

164 100

162 103.8 82.2 123.4

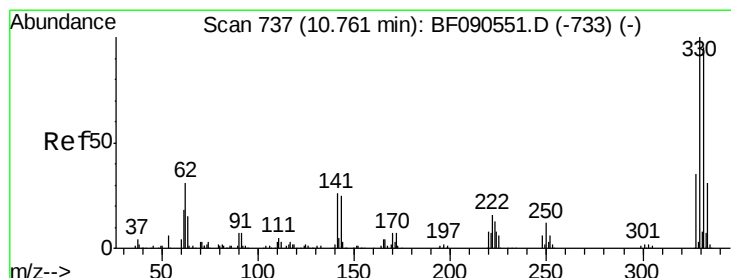
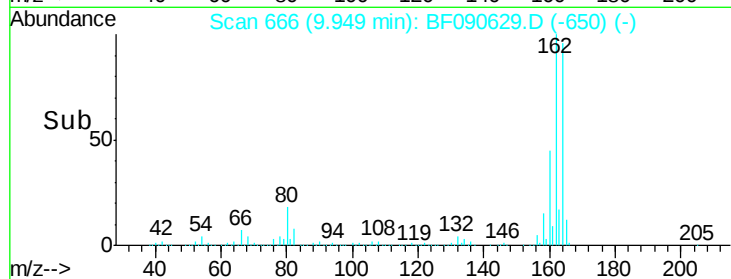
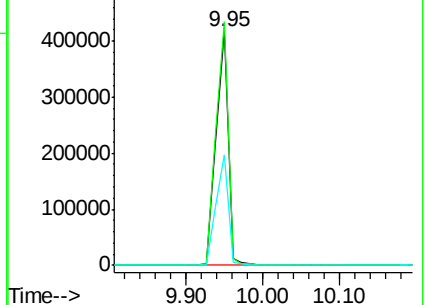
160 46.9 36.6 55.0



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



#41

2,4,6-Tribromophenol

Concen: 54.62 ng

RT: 10.74 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

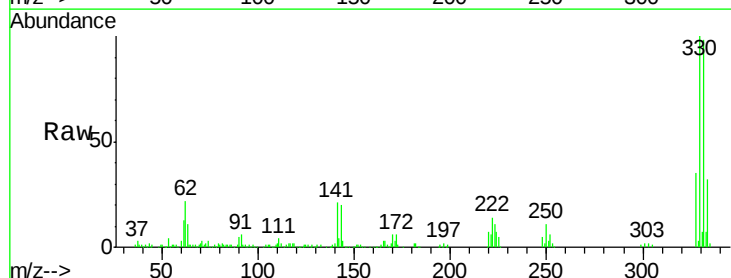
Tgt Ion:330 Resp: 222913

Ion Ratio Lower Upper

330 100

332 97.9 76.2 114.2

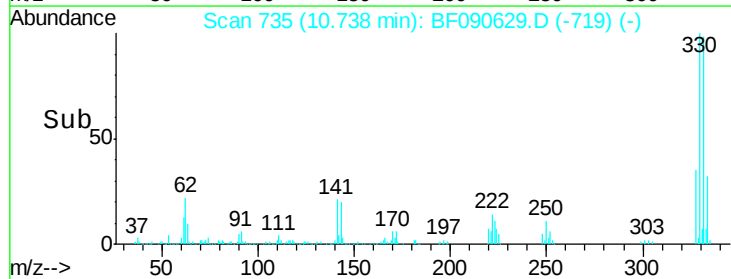
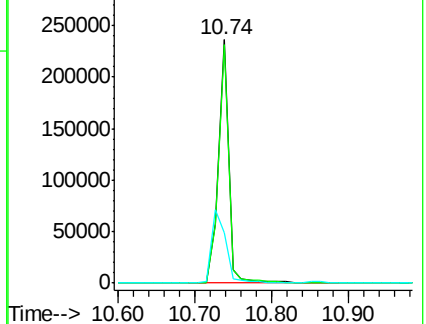
141 40.5 31.4 47.2

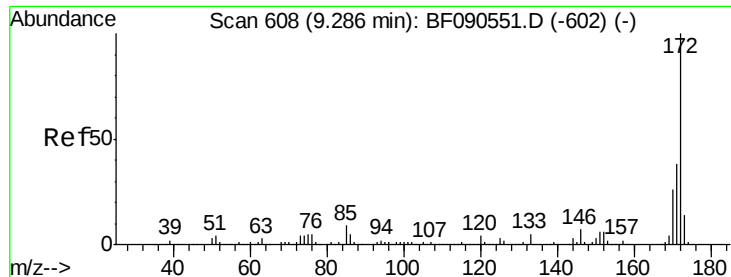


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

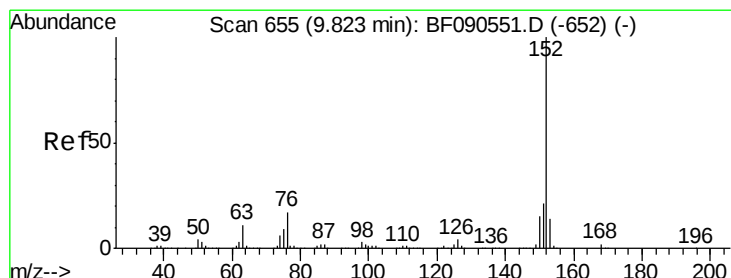
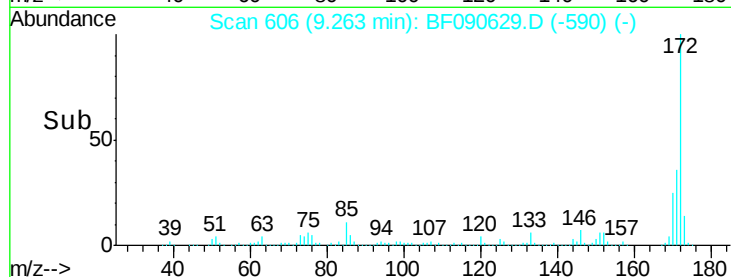
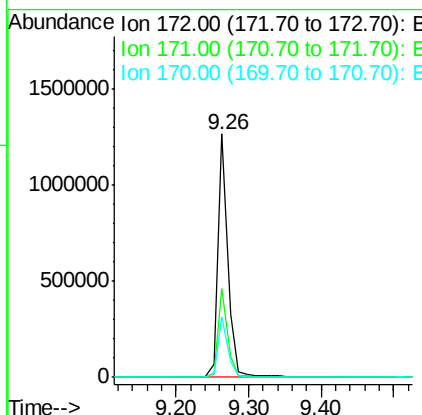
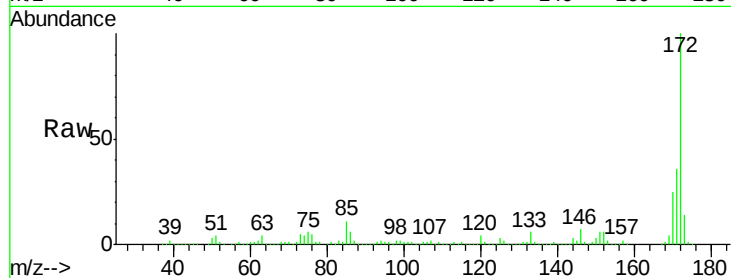




#44
 2-Fluorobiphenyl
 Concen: 43.51 ng
 RT: 9.26 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

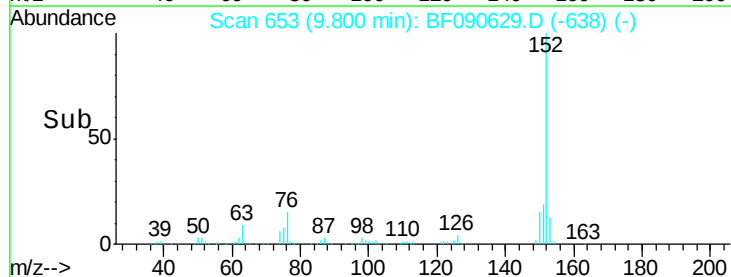
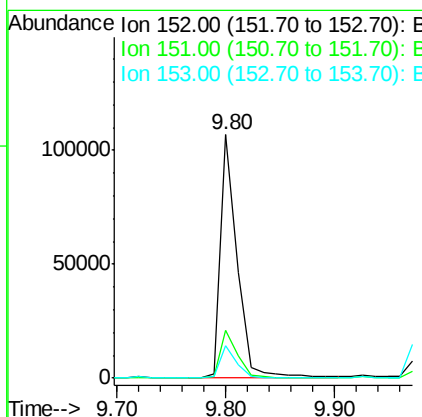
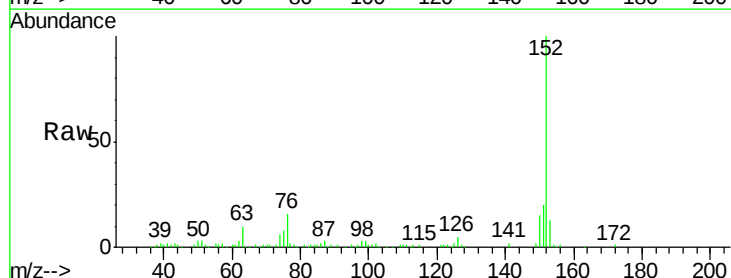
Instrument :
 BNA_F
 ClientSampleId :
 COMP-TP

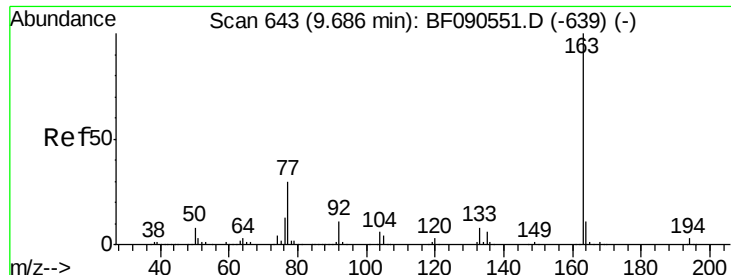
Tgt Ion:172 Resp: 1208650
 Ion Ratio Lower Upper
 172 100
 171 36.2 30.1 45.1
 170 25.1 20.6 30.8



#48
 Acenaphthylene
 Concen: 2.80 ng
 RT: 9.80 min Scan# 653
 Delta R.T. -0.02 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Tgt Ion:152 Resp: 116000
 Ion Ratio Lower Upper
 152 100
 151 19.5 16.6 25.0
 153 13.5 11.3 16.9





#49

Dimethylphthalate

Concen: 6.68 ng

RT: 9.66 min Scan# 641

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

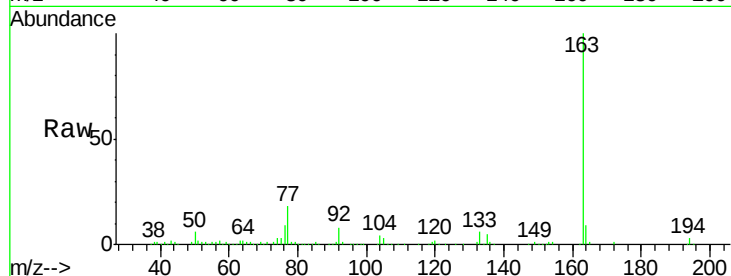
Tgt Ion:163 Resp: 198324

Ion Ratio Lower Upper

163 100

194 3.2 2.3 3.5

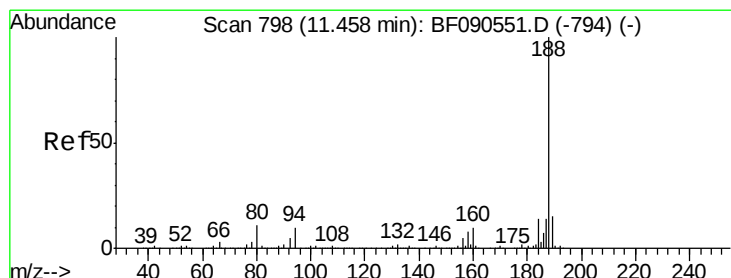
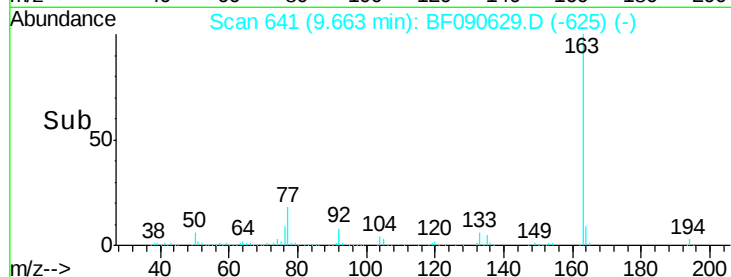
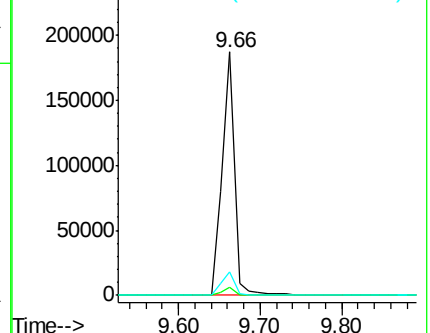
164 9.4 8.6 13.0



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: 11.43 min Scan# 796

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

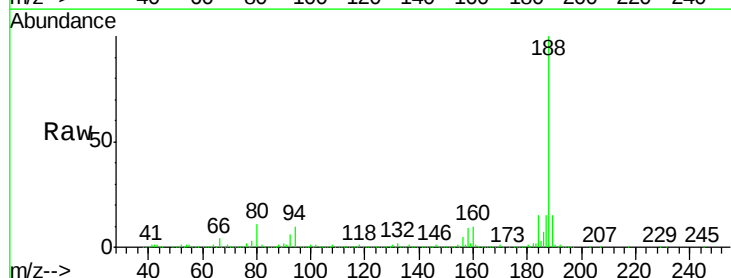
Tgt Ion:188 Resp: 642498

Ion Ratio Lower Upper

188 100

94 10.1 7.7 11.5

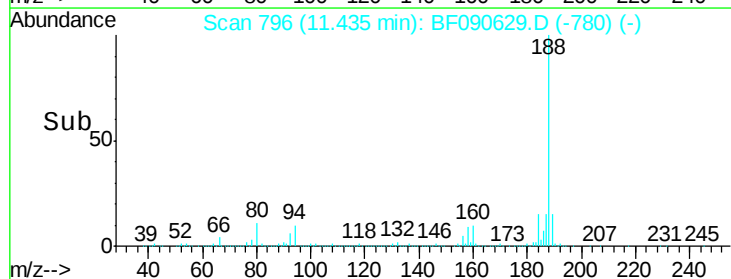
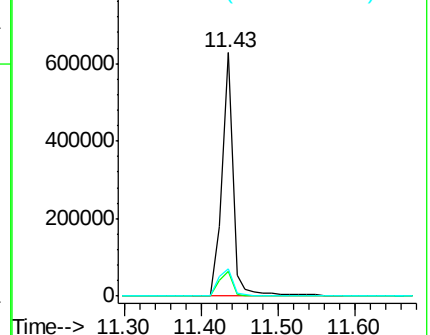
80 11.2 8.6 12.8

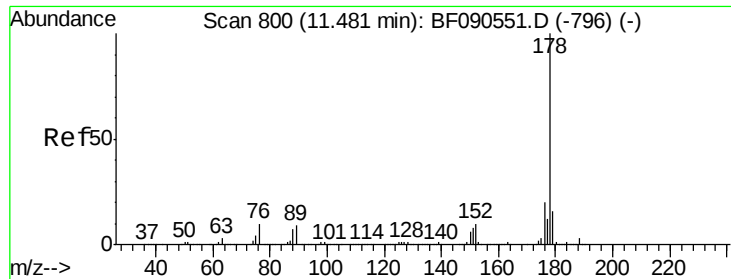


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

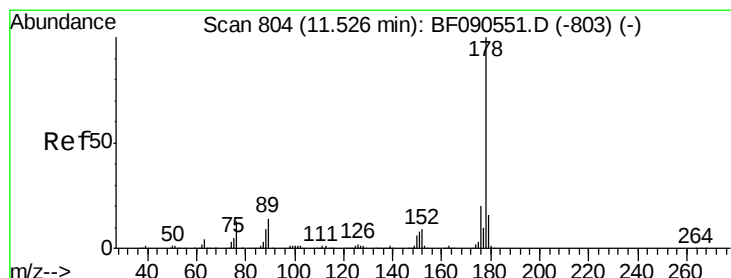
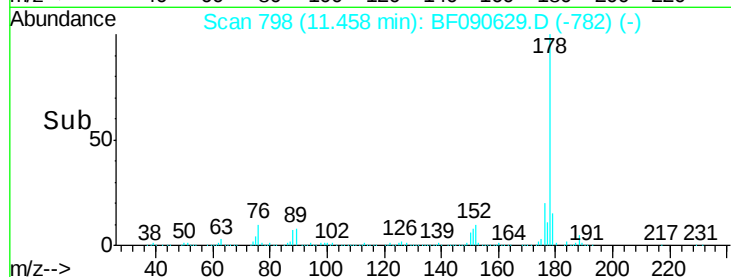
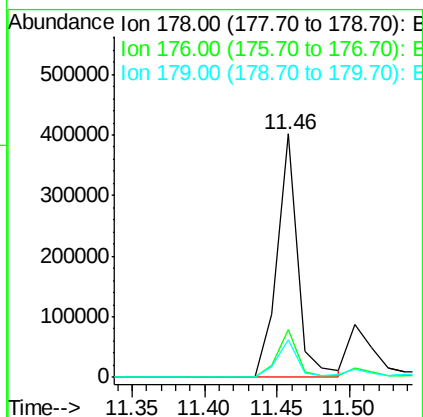
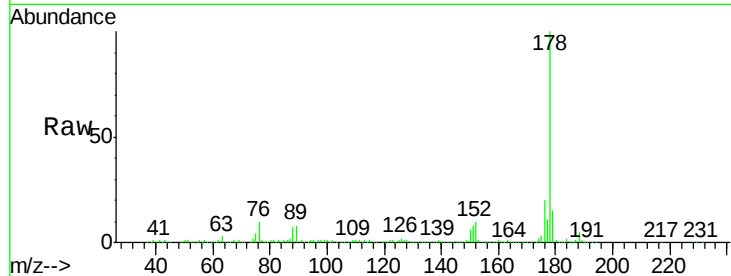




#70
Phenanthrene
Concen: 11.55 ng
RT: 11.46 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

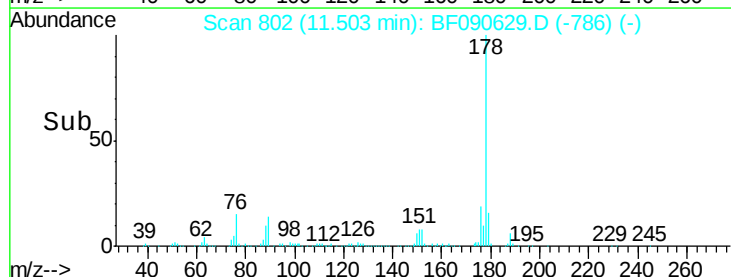
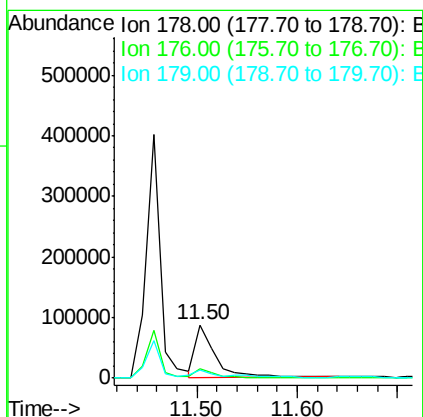
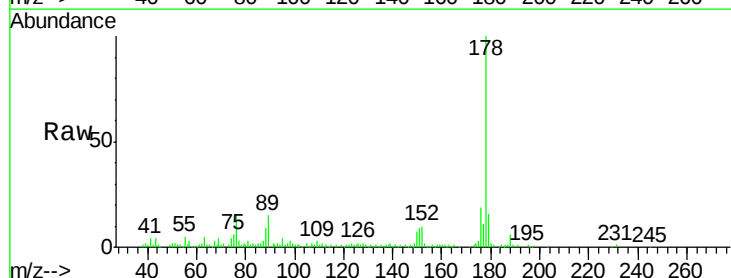
Instrument :
BNA_F
ClientSampleId :
COMP-TP

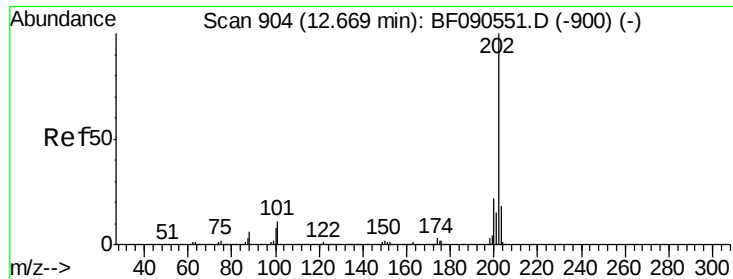
Tgt Ion:178 Resp: 396010
Ion Ratio Lower Upper
178 100
176 19.5 16.1 24.1
179 15.2 12.6 19.0



#71
Anthracene
Concen: 3.24 ng
RT: 11.50 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

Tgt Ion:178 Resp: 119647
Ion Ratio Lower Upper
178 100
176 18.7 15.5 23.3
179 16.4 13.0 19.4





#74

Fluoranthene

Concen: 27.45 ng

RT: 12.65 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

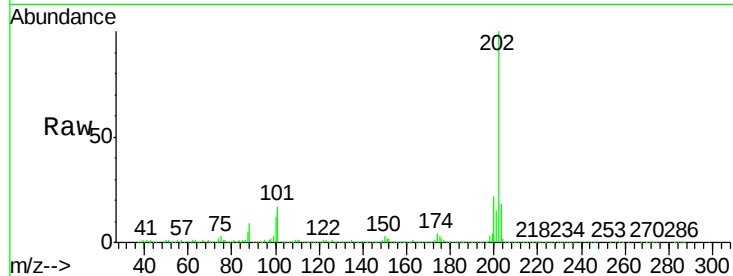
Tgt Ion:202 Resp: 947001

Ion Ratio Lower Upper

202 100

101 16.8 0.0 31.1

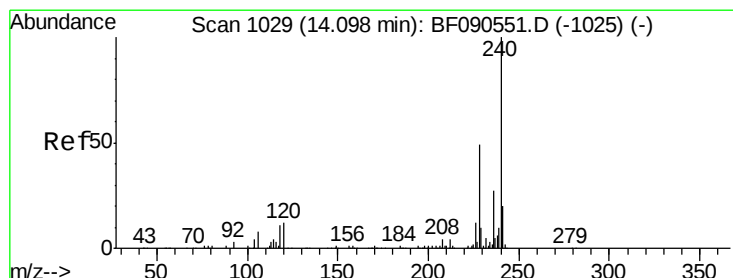
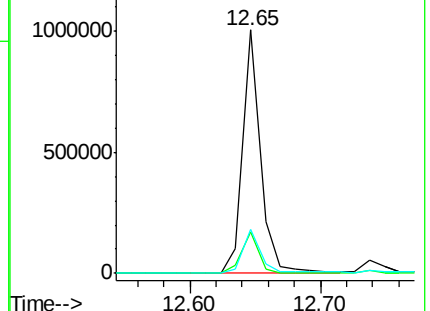
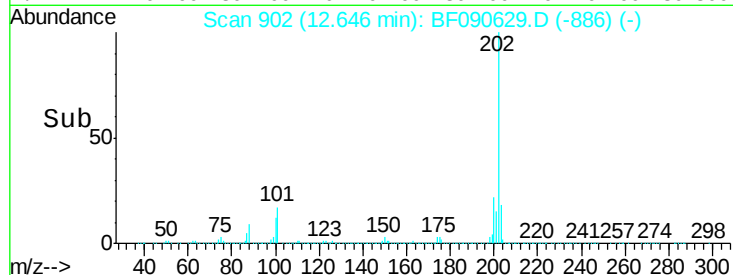
203 18.2 0.0 38.0



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: 14.08 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

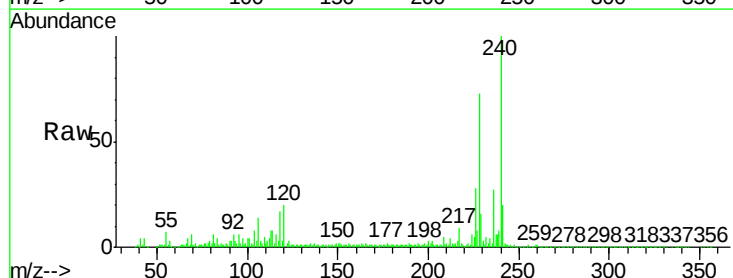
Tgt Ion:240 Resp: 511324

Ion Ratio Lower Upper

240 100

120 19.8 9.8 14.8#

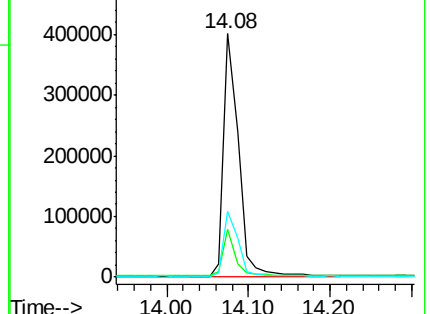
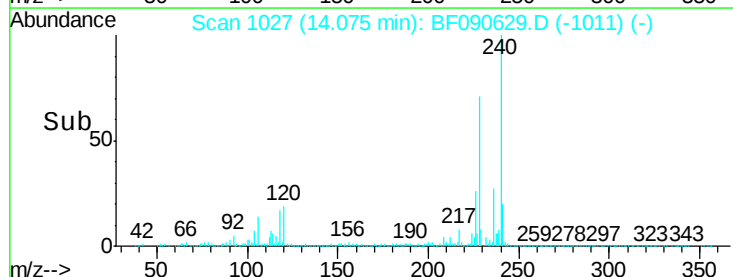
236 26.9 21.7 32.5

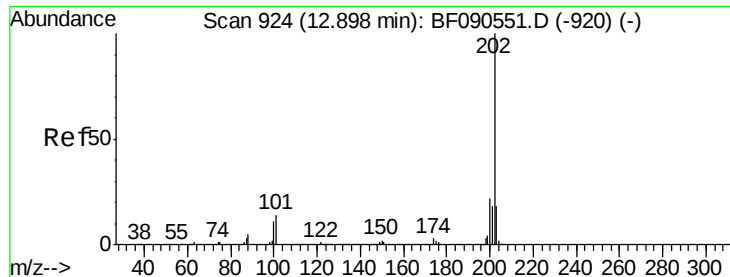


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

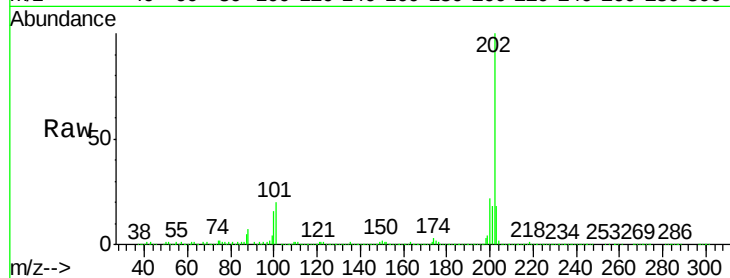




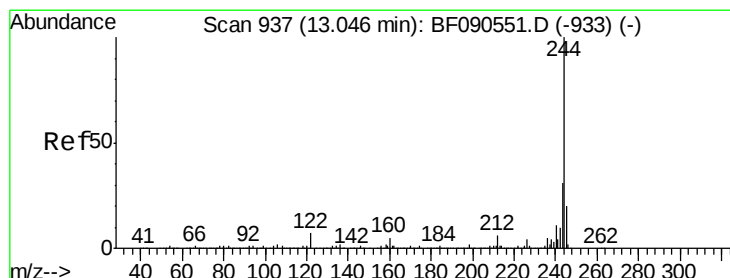
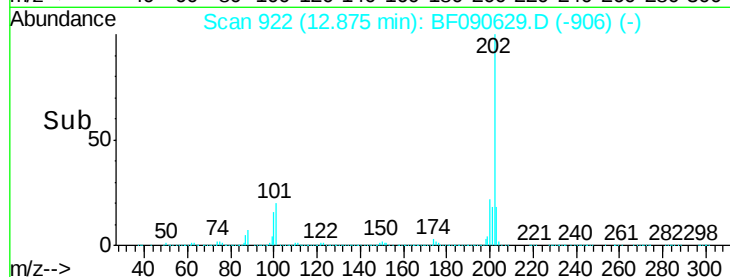
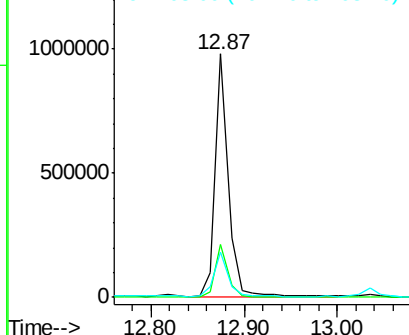
#77
 Pyrene
 Concen: 27.84 ng
 RT: 12.87 min Scan# 922
 Delta R.T. -0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Instrument :
 BNA_F
 ClientSampled :
 COMP-TP

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.8	26.6
203	18.4	14.6	21.8

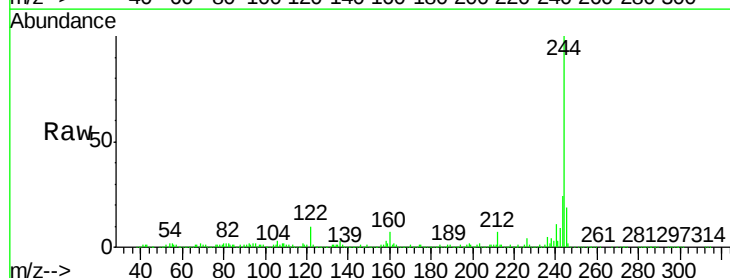


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

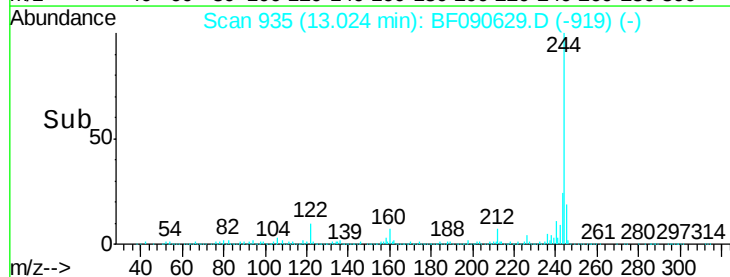
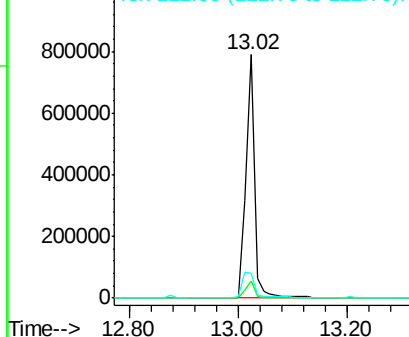


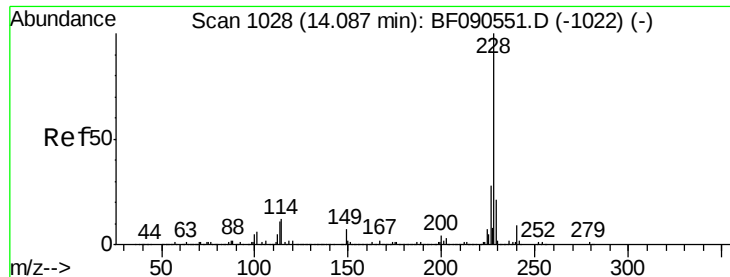
#78
 Terphenyl-d14
 Concen: 39.15 ng
 RT: 13.02 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.0	7.4
122	10.4	5.6	8.4#



Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 32.36 ng

RT: 14.06 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

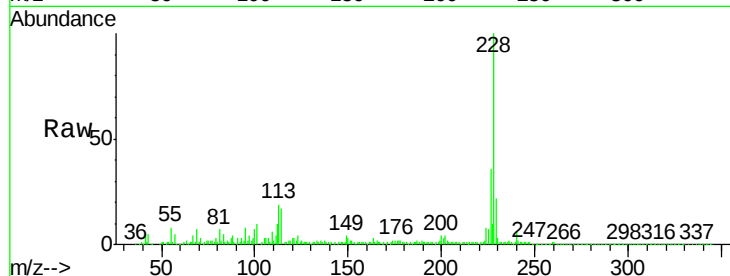
Tgt Ion:228 Resp: 942082

Ion Ratio Lower Upper

228 100

226 36.0 22.8 34.2#

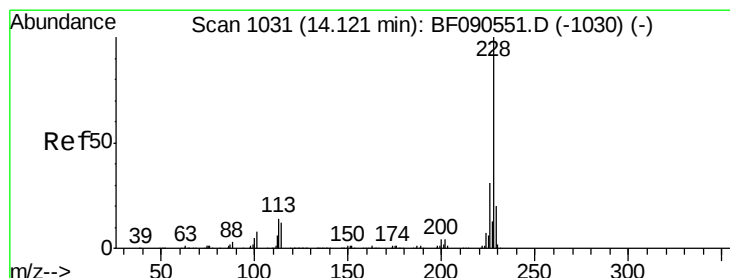
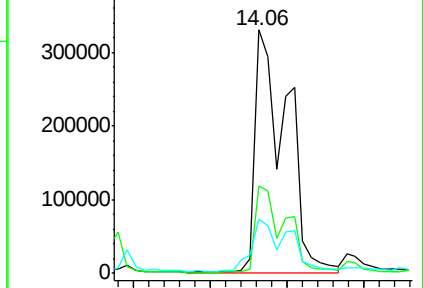
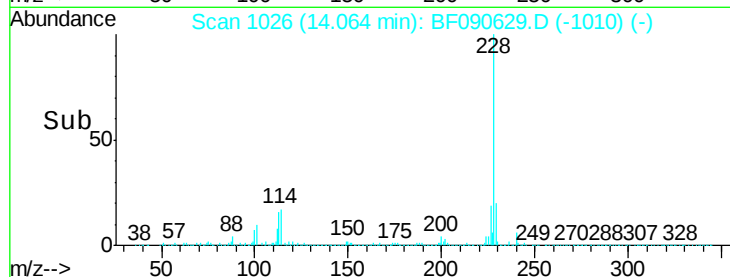
229 22.3 16.6 25.0



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: 33.59 ng

RT: 14.06 min Scan# 1026

Delta R.T. -0.05 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

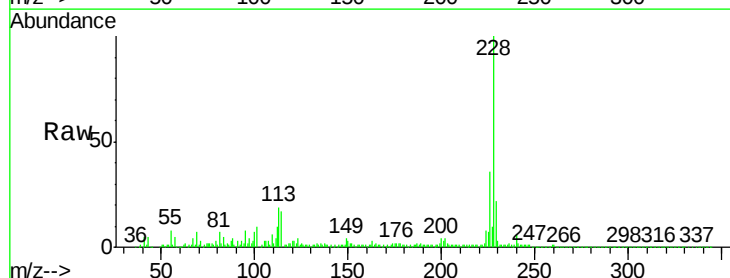
Tgt Ion:228 Resp: 942082

Ion Ratio Lower Upper

228 100

226 36.0 24.8 37.2

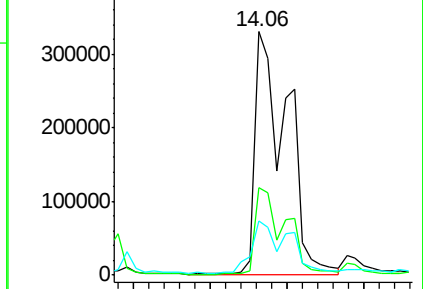
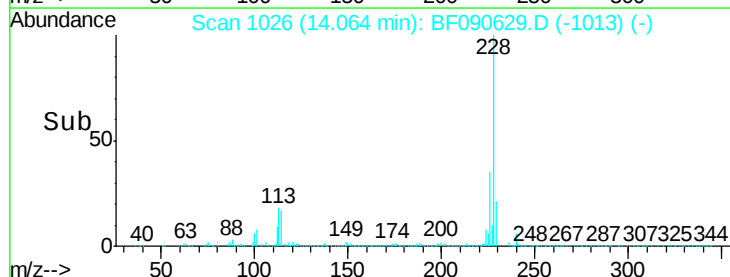
229 22.3 16.2 24.4

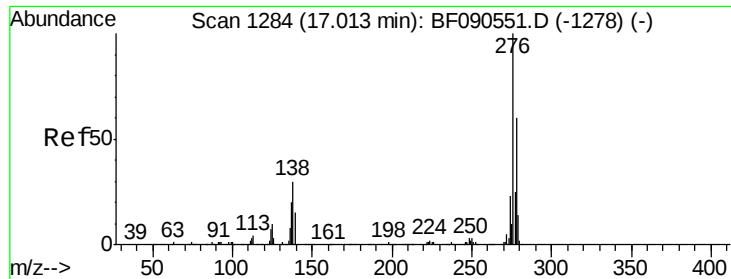


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

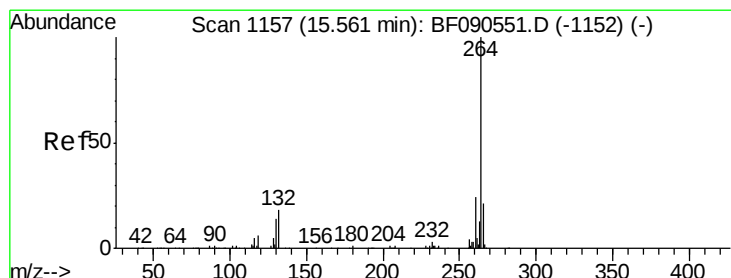
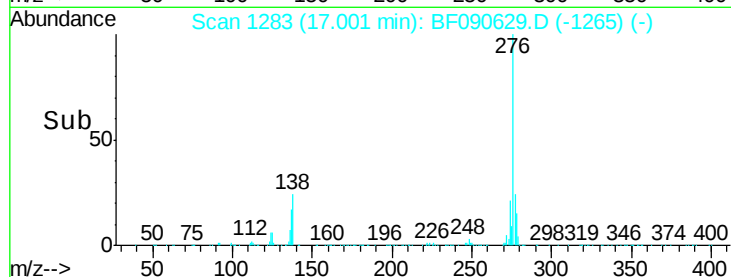
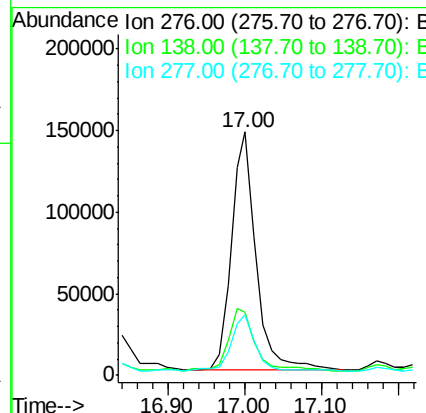
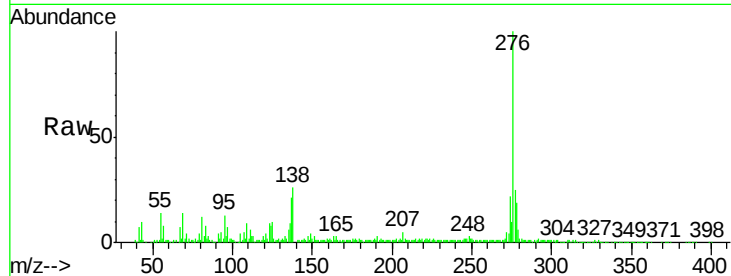




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 20.37 ng
 RT: 17.00 min Scan# 1283
 Delta R.T. 0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

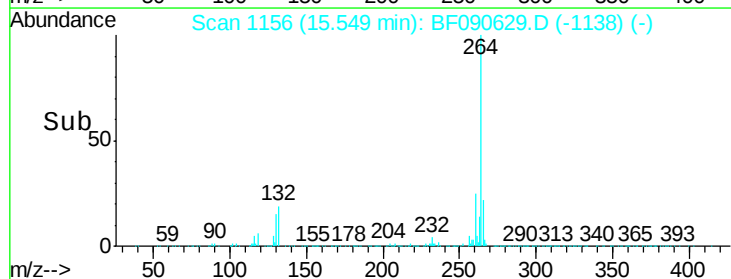
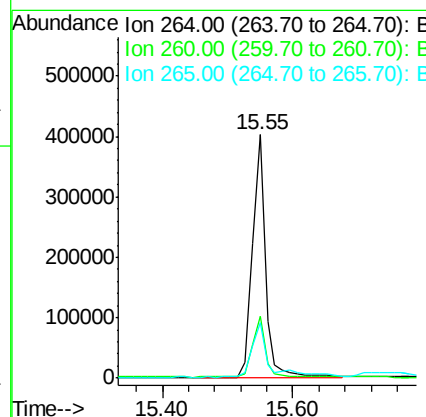
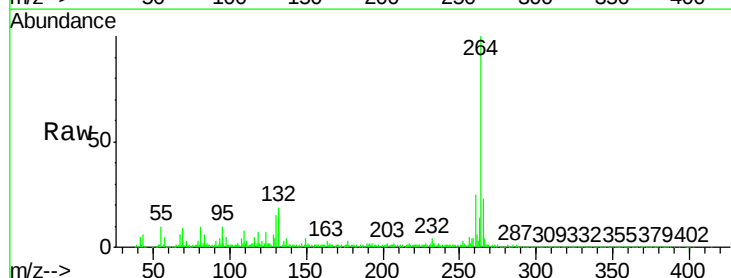
Instrument :
 BNA_F
 ClientSampleId :
 COMP-TP

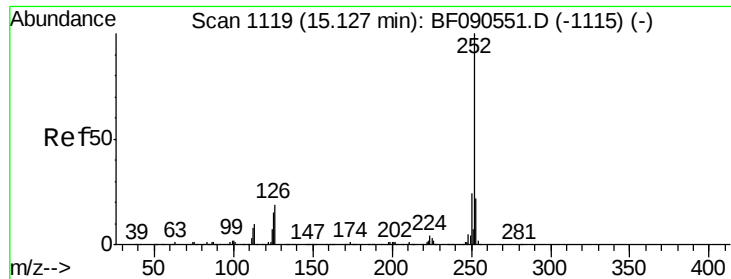
Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.0	25.8	38.6
277	23.5	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.55 min Scan# 1156
 Delta R.T. 0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.3	28.9
265	22.7	16.7	25.1





#87

Benzo(b)fluoranthene

Concen: 27.93 ng

RT: 15.13 min Scan# 1119

Delta R.T. 0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

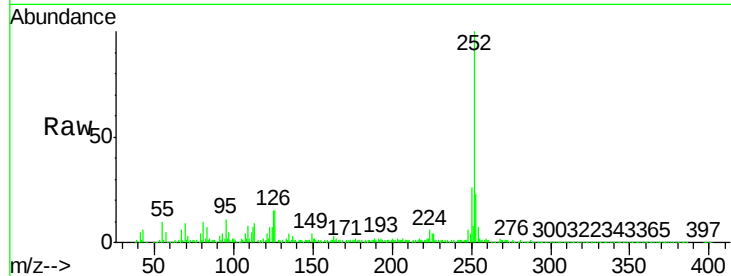
Tgt Ion:252 Resp: 1020969

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

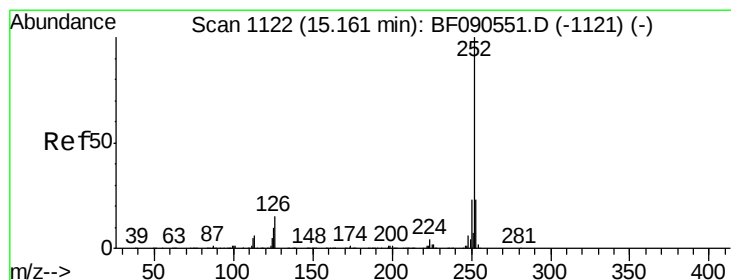
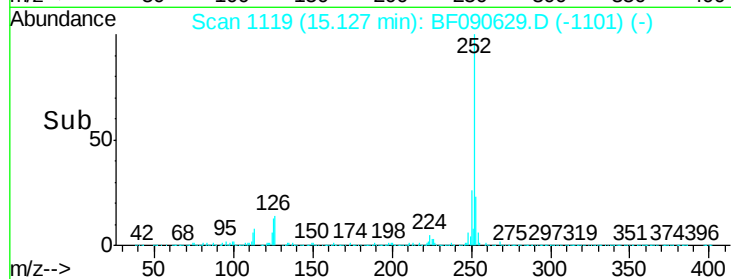
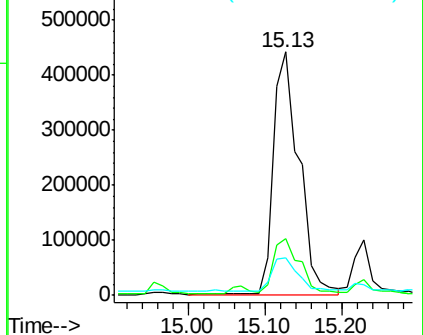
125 15.2 12.0 18.0



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: 25.96 ng

RT: 15.13 min Scan# 1119

Delta R.T. -0.02 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

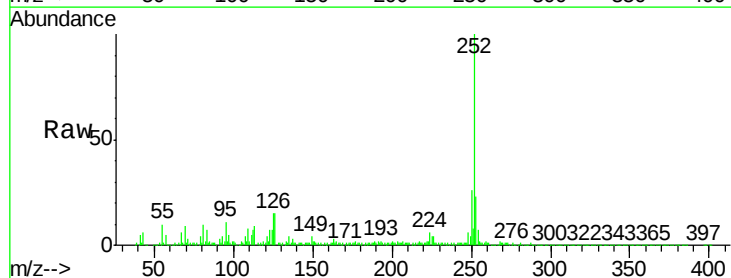
Tgt Ion:252 Resp: 1020969

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

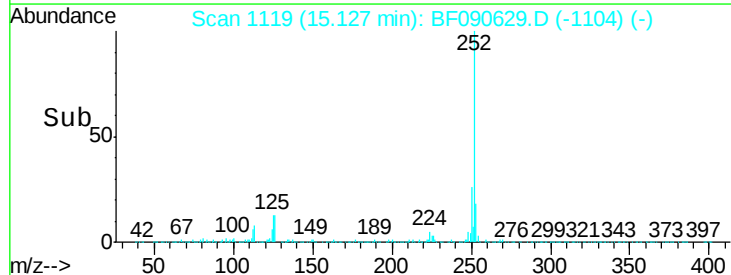
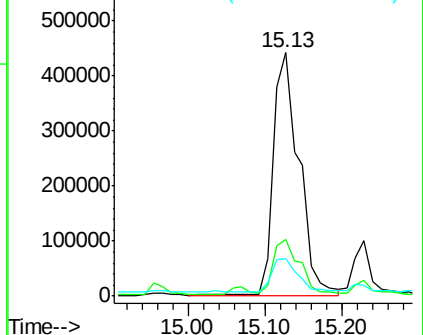
125 15.2 10.0 15.0#

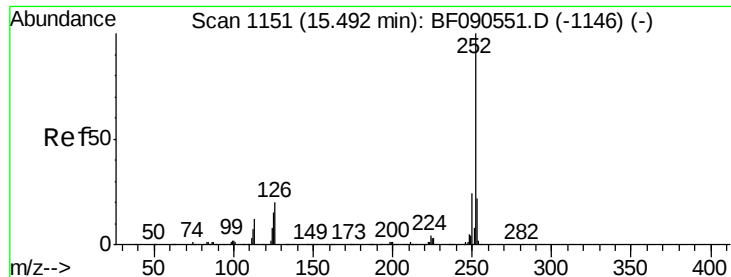


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 16.09 ng

RT: 15.48 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

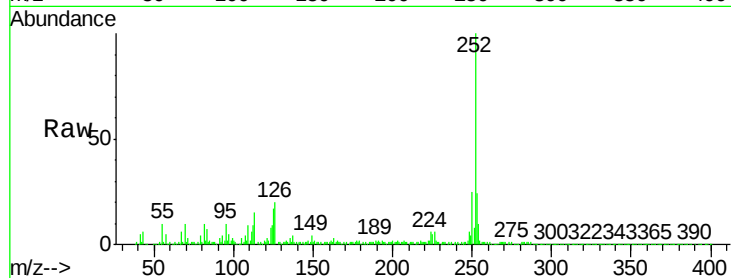
Tgt Ion:252 Resp: 538415

Ion Ratio Lower Upper

252 100

253 24.5 17.9 26.9

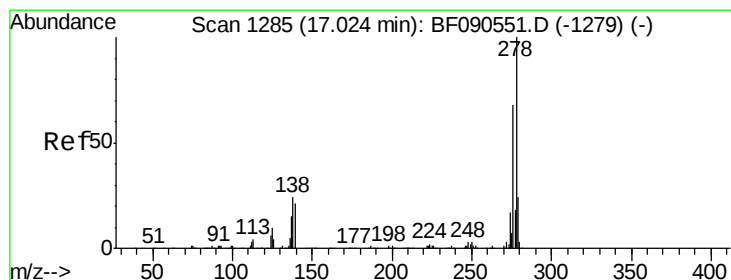
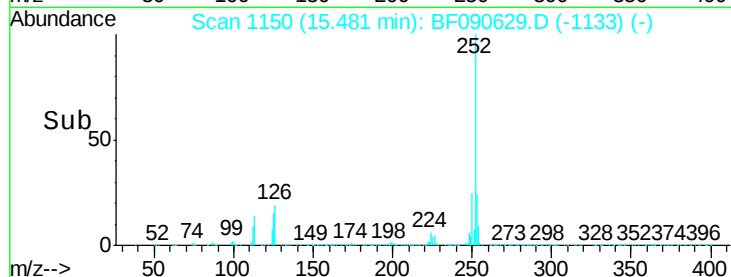
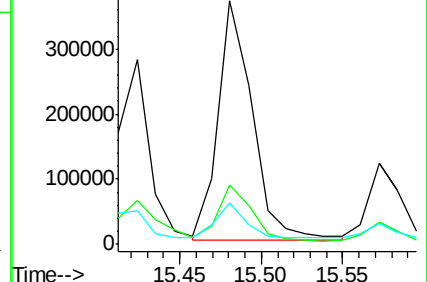
125 17.0 12.3 18.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.24 ng

RT: 17.00 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

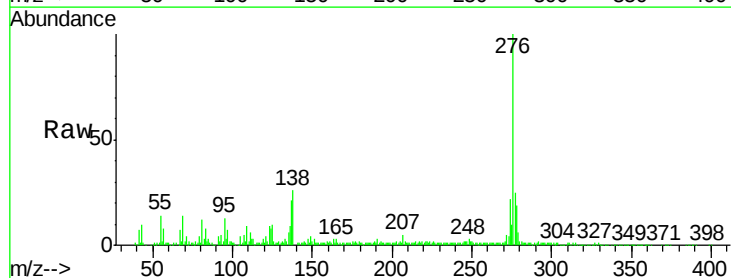
Tgt Ion:278 Resp: 57270

Ion Ratio Lower Upper

278 100

139 0.0 16.6 25.0#

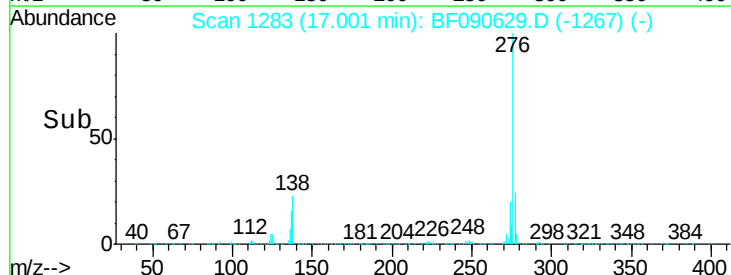
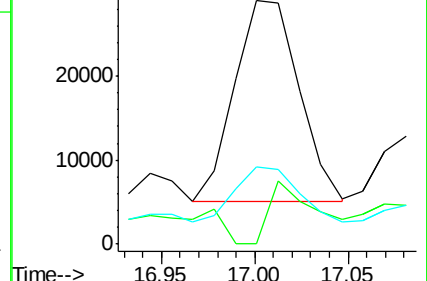
279 31.6 19.1 28.7#

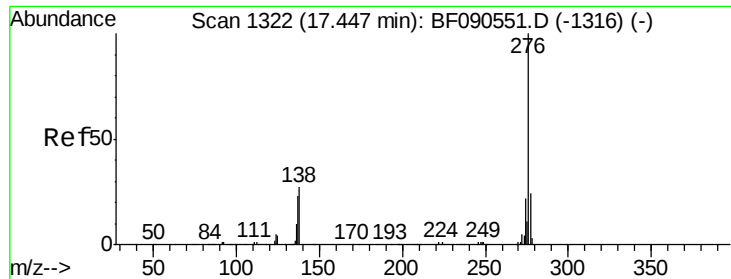


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(g,h,i)perylene
 Concen: 12.76 ng
 RT: 17.44 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Instrument :
 BNA_F
 ClientSampleId :
 COMP-TP

Tgt Ion: 276 Resp: 310425
 Ion Ratio Lower Upper
 276 100
 277 24.9 18.8 28.2
 138 31.0 21.8 32.8

