

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101816\
 Data File : BF090636.D
 Acq On : 18 Oct 2016 19:03
 Operator : UM/SJ
 Sample : H5289-06
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-1

Quant Time: Oct 19 01:09:03 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	208622	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	888288	20.00	ng	-0.01
38) Acenaphthene-d10	9.95	164	389527	20.00	ng	-0.01
63) Phenanthrene-d10	11.43	188	508445	20.00	ng	-0.01
75) Chrysene-d12	14.09	240	550725	20.00	ng	0.00
86) Perylene-d12	15.56	264	500246	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	1245991	109.49	ng	0.00
7) Phenol-d6	6.54	99	1657266	98.01	ng	0.00
23) Nitrobenzene-d5	7.47	82	1074767	67.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	253011	72.86	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	1426055	60.32	ng	-0.01
78) Terphenyl-d14	13.02	244	1111830	47.01	ng	-0.01

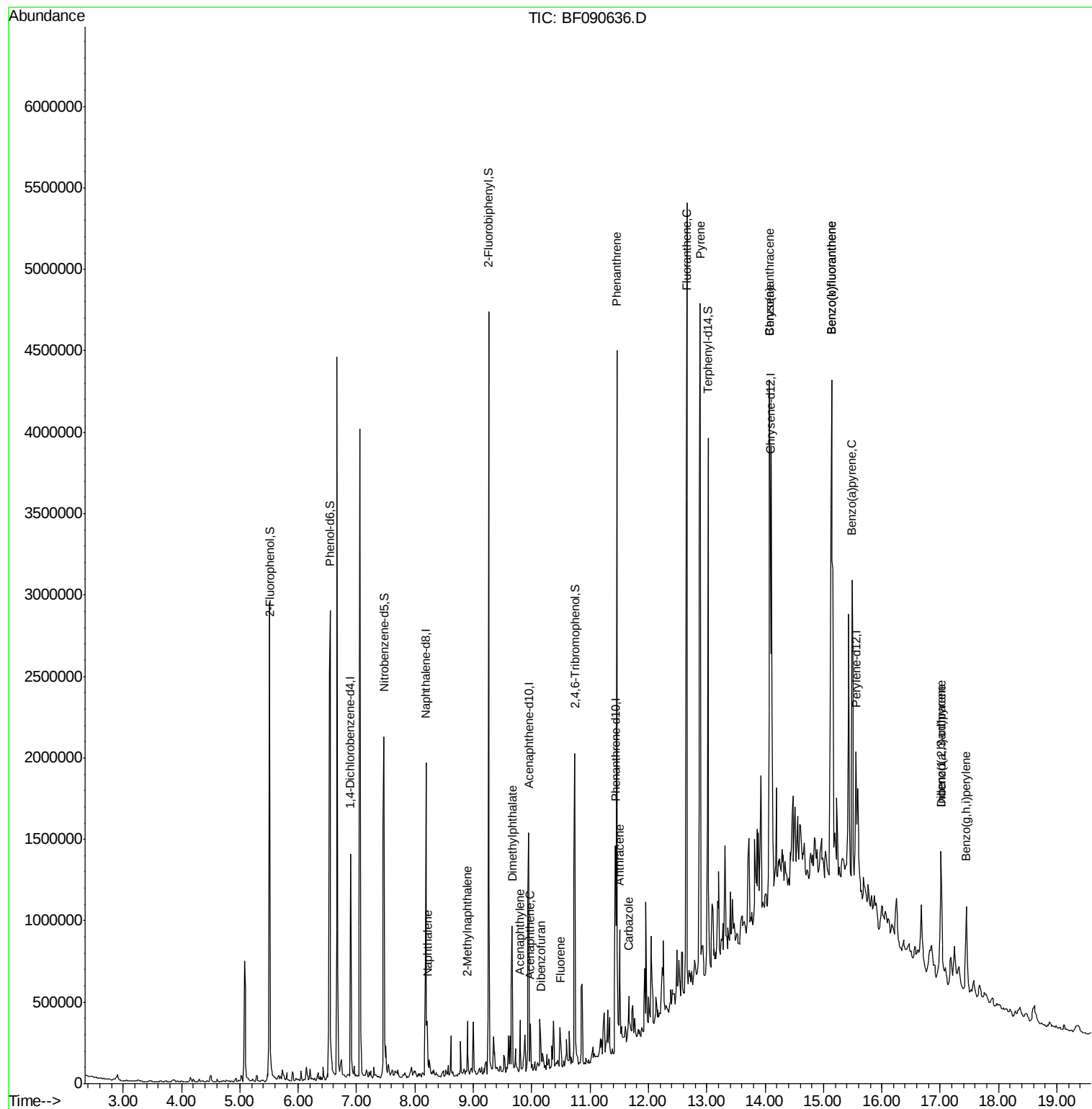
Target Compounds				Qvalue		
31) Naphthalene	8.21	128	172003	3.80	ng	98
37) 2-Methylnaphthalene	8.90	142	91963	3.46	ng	99
48) Acenaphthylene	9.80	152	134362	3.82	ng	98
49) Dimethylphthalate	9.66	163	370240	14.65	ng	# 98
51) Acenaphthene	9.97	154	55462	2.37	ng	98
54) Dibenzofuran	10.15	168	116989	3.80	ng	97
57) Fluorene	10.49	166	67186	2.65	ng	# 94
70) Phenanthrene	11.46	178	1519320	55.98	ng	99
71) Anthracene	11.50	178	383360	13.12	ng	99
72) Carbazole	11.66	167	148003	5.66	ng	99
74) Fluoranthene	12.66	202	2503491	91.70	ng	98
77) Pyrene	12.89	202	2177139	59.69	ng	99
80) Benzo(a)anthracene	14.08	228	1615006	51.51	ng	96
82) Chrysene	14.08	228	1615006	53.46	ng	98
85) Indeno(1,2,3-cd)pyrene	17.01	276	555721	31.82	ng	# 91
87) Benzo(b)fluoranthene	15.14	252	2832065	86.52	ng	96
88) Benzo(k)fluoranthene	15.14	252	2832065	80.41	ng	98
89) Benzo(a)pyrene	15.49	252	1075190	35.88	ng	97
90) Dibenzo(a,h)anthracene	17.01	278	153462	6.71	ng	93
91) Benzo(g,h,i)perylene	17.45	276	443360	20.34	ng	98

(#) = 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: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

BNA_F

ClientSampleId :

SP-2-1

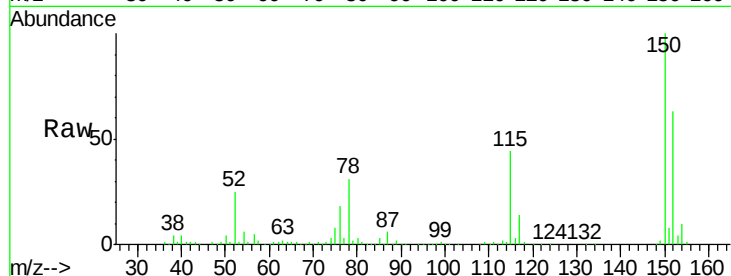
Tgt Ion:152 Resp: 208622

Ion Ratio Lower Upper

152 100

150 158.5 127.2 190.8

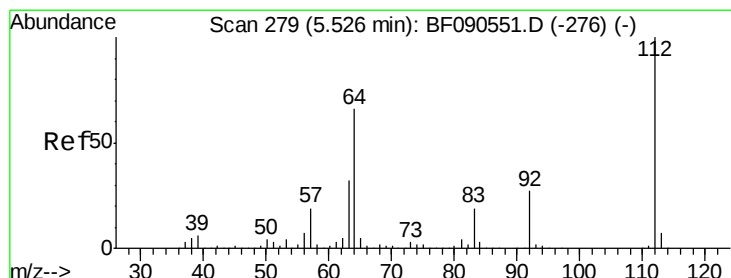
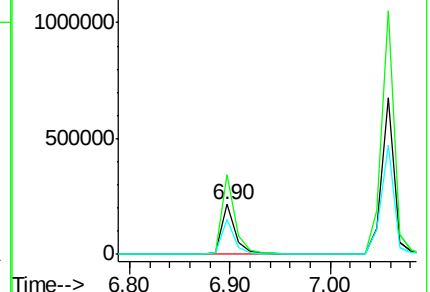
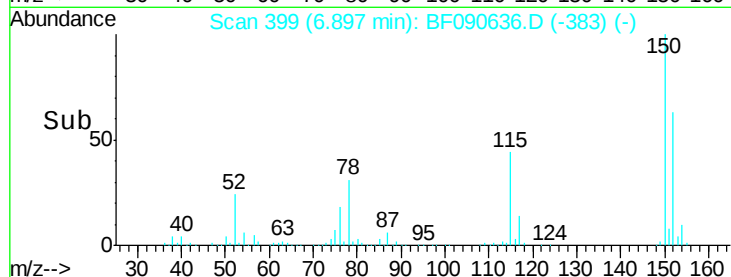
115 69.1 58.6 88.0



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



#5

2-Fluorophenol

Concen: 109.49 ng

RT: 5.51 min Scan# 278

Delta R.T. -0.00 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

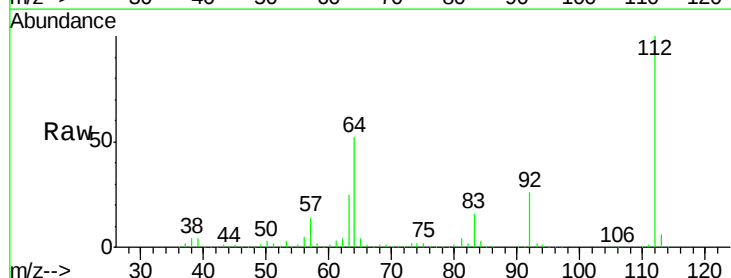
Tgt Ion:112 Resp: 1245991

Ion Ratio Lower Upper

112 100

64 51.9 52.6 78.8#

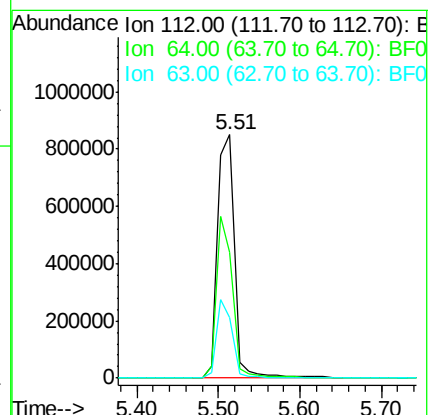
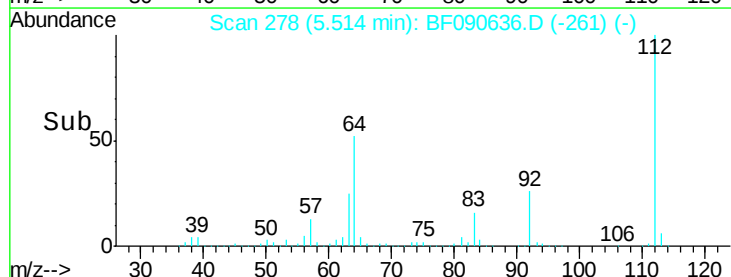
63 25.0 26.0 39.0#

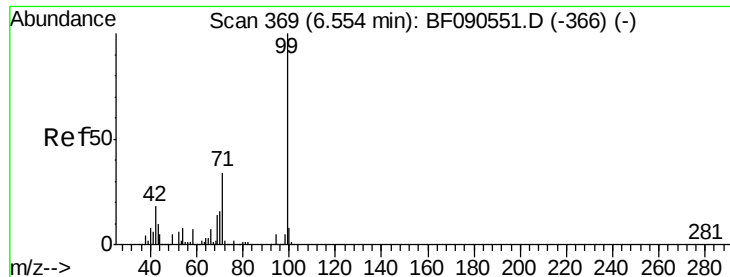


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 98.01 ng

RT: 6.54 min Scan# 368

Delta R.T. -0.00 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

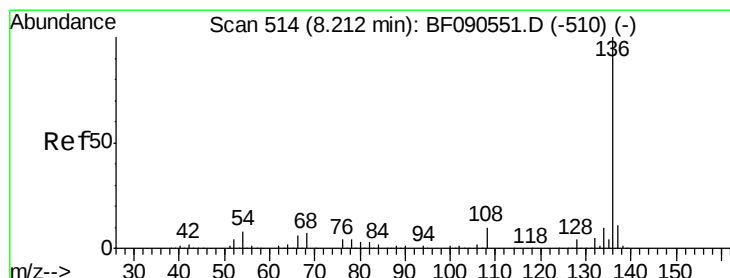
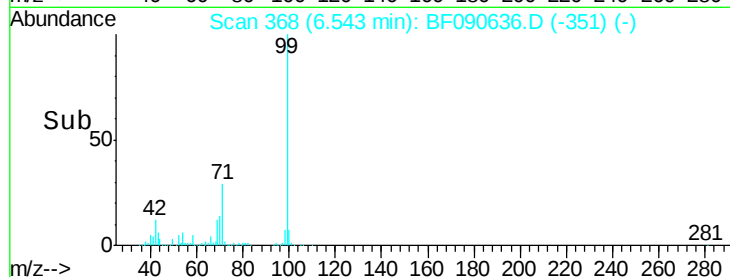
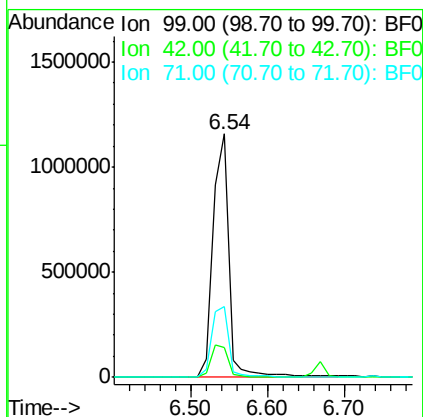
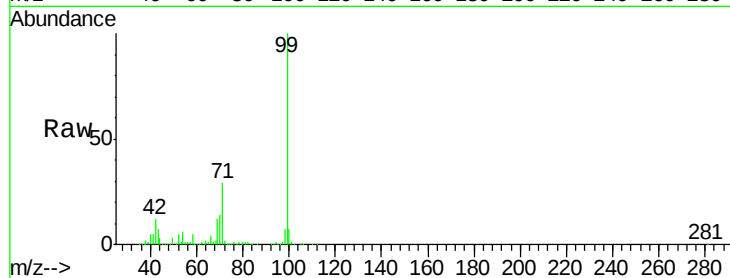
BNA_F

ClientSampleId :

SP-2-1

Tgt Ion: 99 Resp: 1657266

Ion	Ratio	Lower	Upper
99	100		
42	12.3	14.7	22.1#
71	29.0	27.6	41.4



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 512

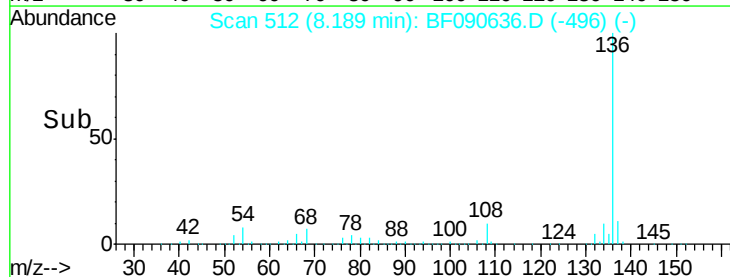
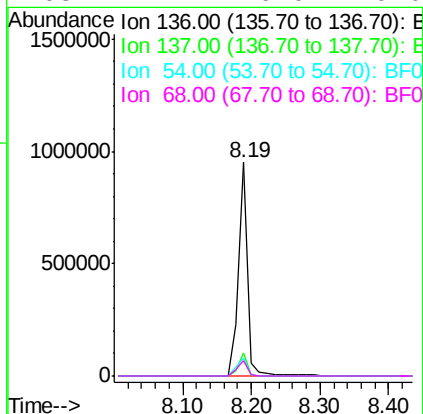
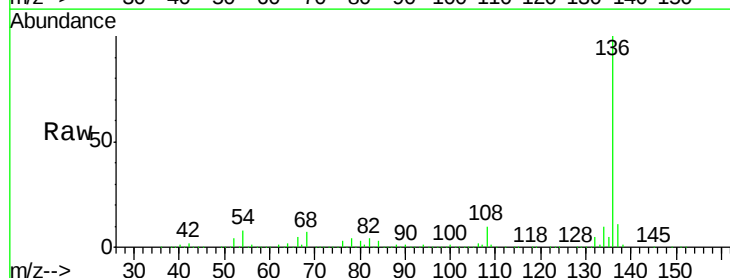
Delta R.T. -0.01 min

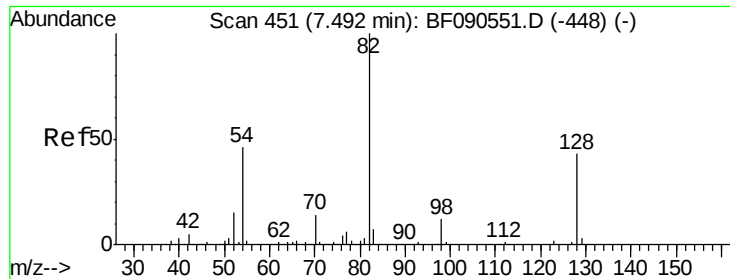
Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Tgt Ion: 136 Resp: 888288

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	8.2	6.8	10.2
68	7.1	6.0	9.0

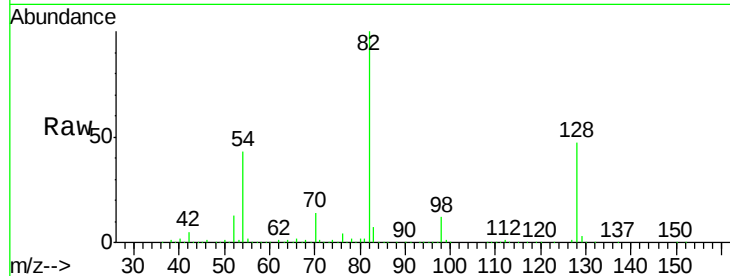




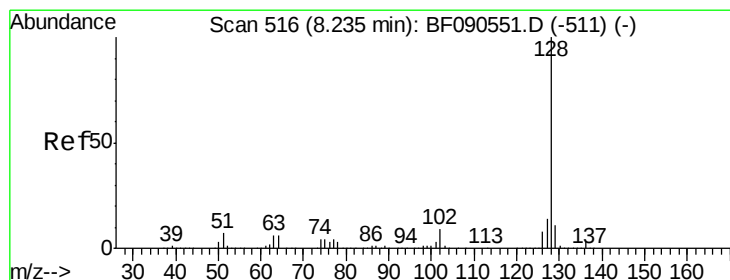
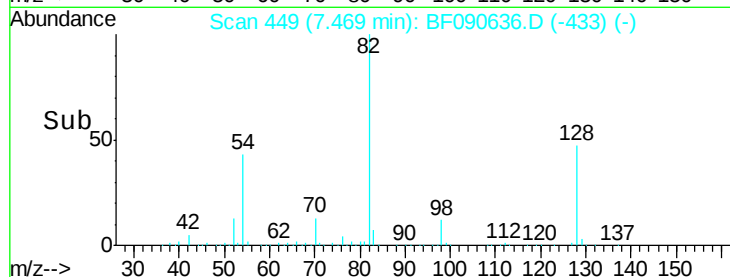
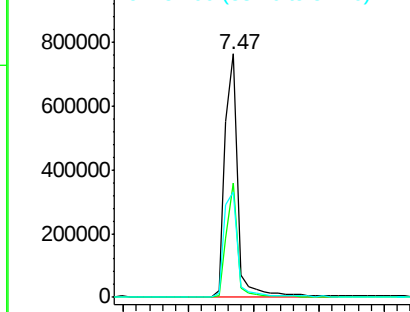
#23
Nitrobenzene-d5
Concen: 67.21 ng
RT: 7.47 min Scan# 449
Delta R.T. -0.01 min
Lab File: BF090636.D
Acq: 18 Oct 2016 19:03

Instrument :
BNA_F
ClientSampleId :
SP-2-1

Tgt Ion: 82 Resp: 1074767
Ion Ratio Lower Upper
82 100
128 46.7 34.3 51.5
54 43.5 37.0 55.6

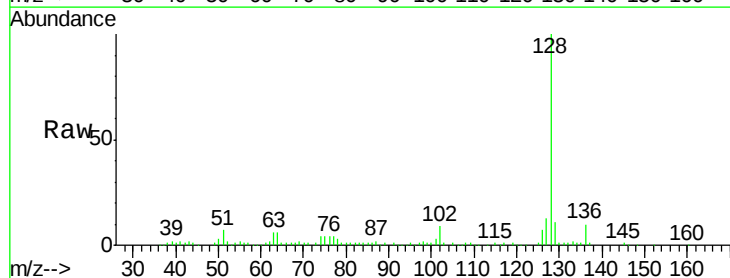


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

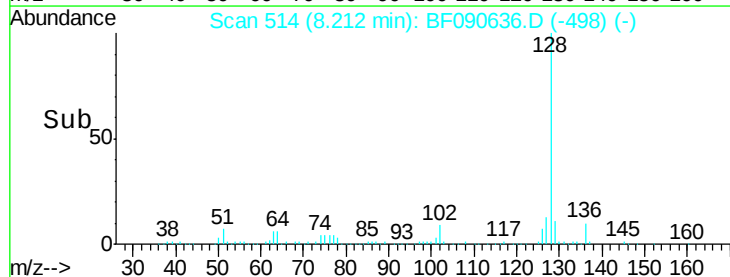
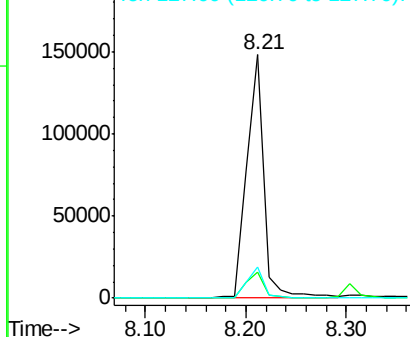


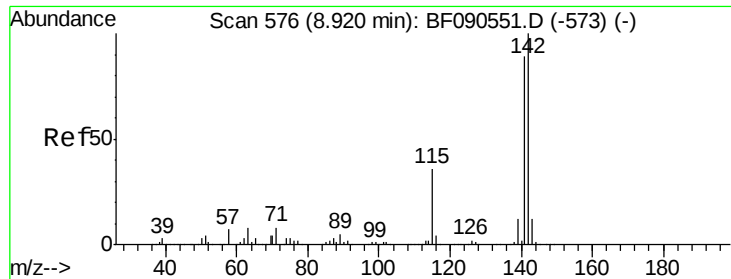
#31
Naphthalene
Concen: 3.80 ng
RT: 8.21 min Scan# 514
Delta R.T. -0.01 min
Lab File: BF090636.D
Acq: 18 Oct 2016 19:03

Tgt Ion: 128 Resp: 172003
Ion Ratio Lower Upper
128 100
129 10.8 9.0 13.6
127 12.7 10.8 16.2



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

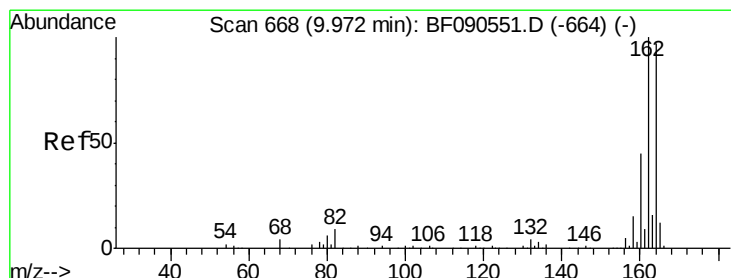
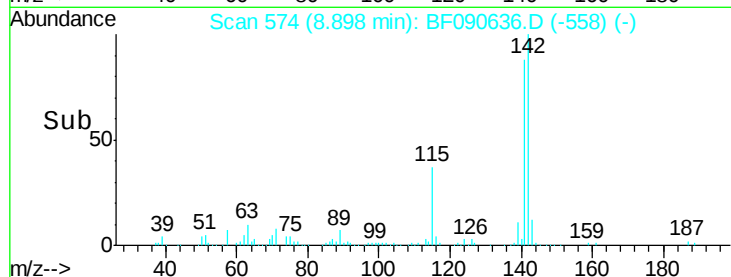
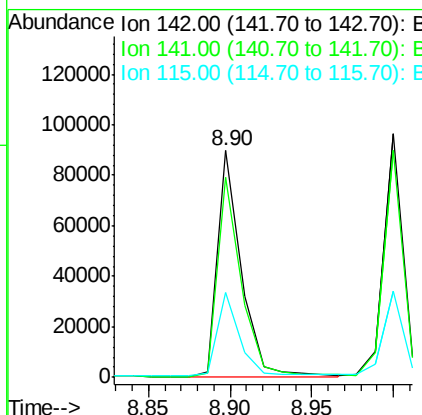
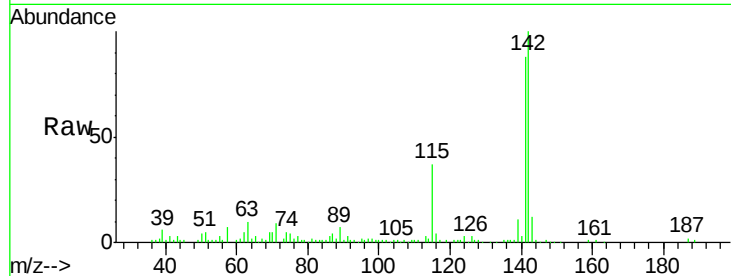




#37
 2-Methylnaphthalene
 Concen: 3.46 ng
 RT: 8.90 min Scan# 574
 Delta R.T. -0.01 min
 Lab File: BF090636.D
 Acq: 18 Oct 2016 19:03

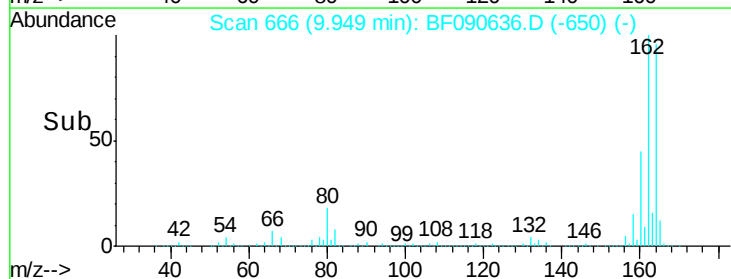
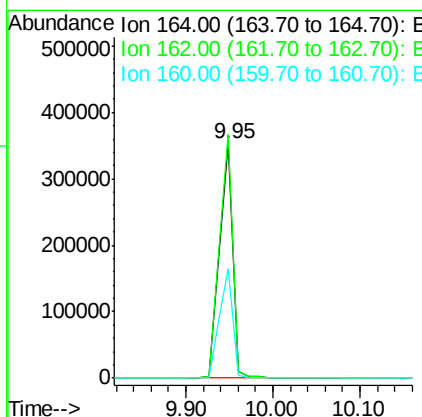
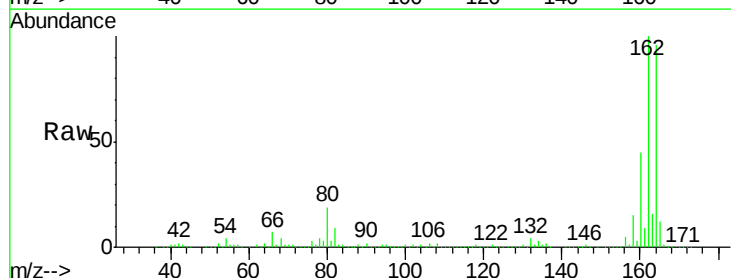
Instrument :
 BNA_F
 ClientSampleId :
 SP-2-1

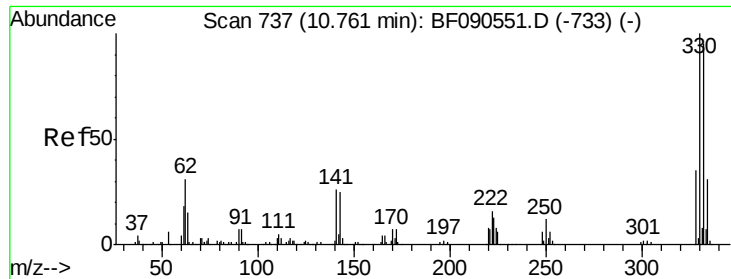
Tgt Ion:142 Resp: 91963
 Ion Ratio Lower Upper
 142 100
 141 88.4 71.3 106.9
 115 37.4 28.8 43.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.95 min Scan# 666
 Delta R.T. -0.01 min
 Lab File: BF090636.D
 Acq: 18 Oct 2016 19:03

Tgt Ion:164 Resp: 389527
 Ion Ratio Lower Upper
 164 100
 162 104.0 82.2 123.4
 160 46.7 36.6 55.0

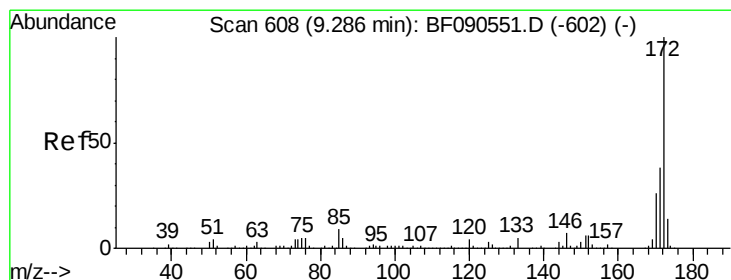
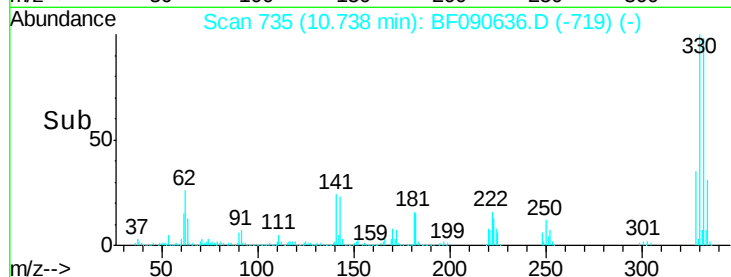
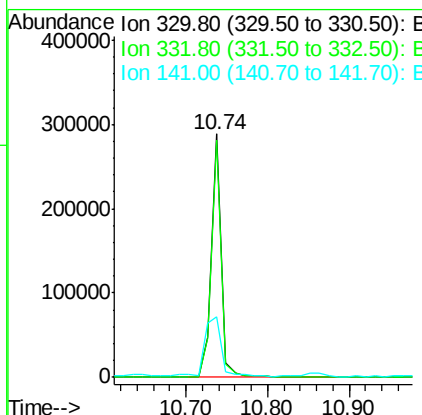
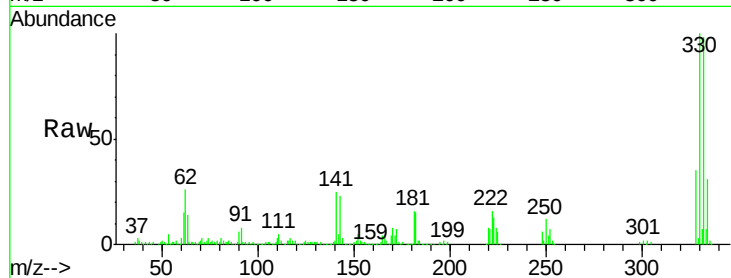




#41
 2,4,6-Tribromophenol
 Concen: 72.86 ng
 RT: 10.74 min Scan# 735
 Delta R.T. -0.01 min
 Lab File: BF090636.D
 Acq: 18 Oct 2016 19:03

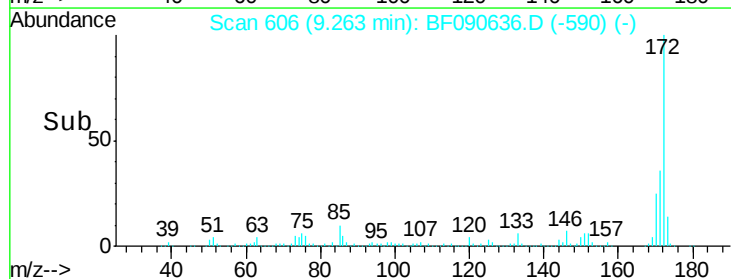
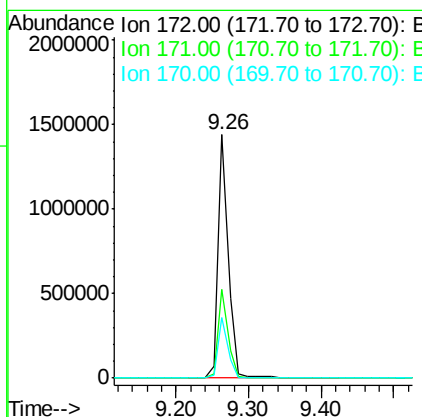
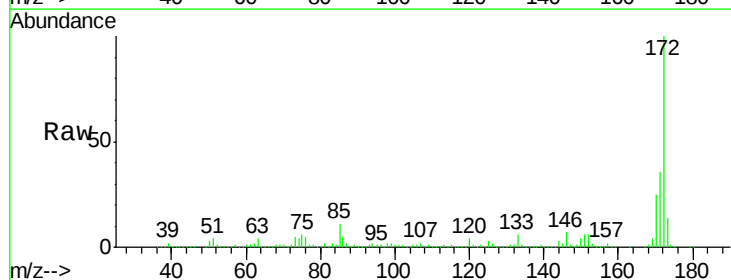
Instrument :
 BNA_F
 ClientSampleId :
 SP-2-1

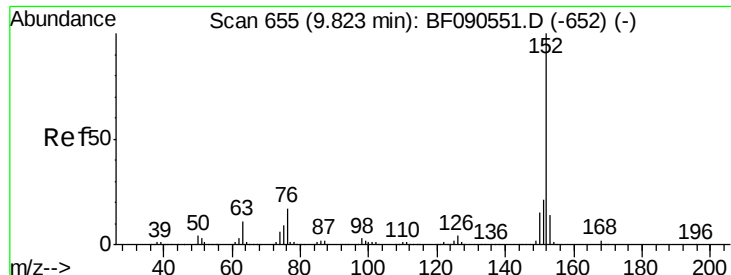
Tgt Ion:330 Resp: 253011
 Ion Ratio Lower Upper
 330 100
 332 97.2 76.2 114.2
 141 41.6 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 60.32 ng
 RT: 9.26 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: BF090636.D
 Acq: 18 Oct 2016 19:03

Tgt Ion:172 Resp: 1426055
 Ion Ratio Lower Upper
 172 100
 171 36.4 30.1 45.1
 170 25.1 20.6 30.8





#48

Acenaphthylene

Concen: 3.82 ng

RT: 9.80 min Scan# 653

Delta R.T. -0.02 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

BNA_F

ClientSampleId :

SP-2-1

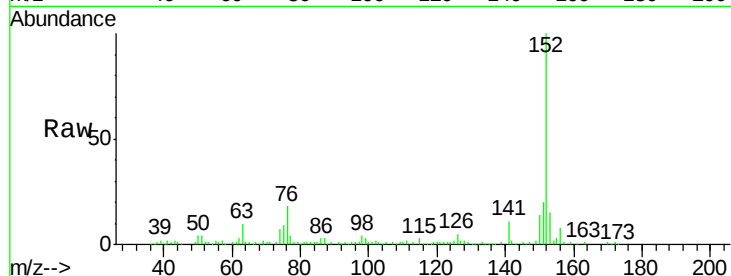
Tgt Ion:152 Resp: 134362

Ion Ratio Lower Upper

152 100

151 19.9 16.6 25.0

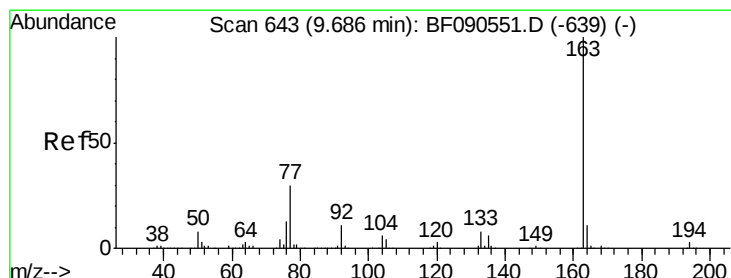
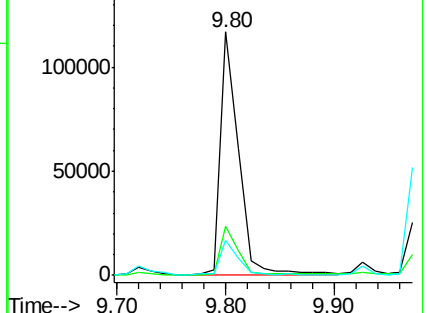
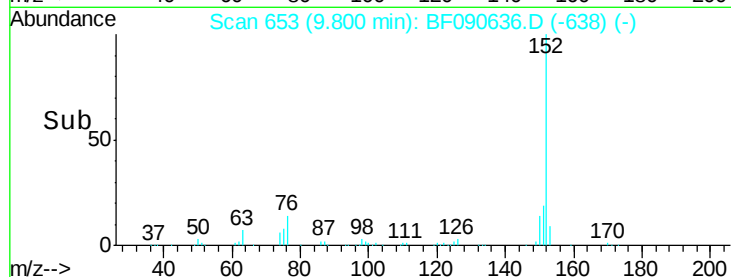
153 14.5 11.3 16.9



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: 14.65 ng

RT: 9.66 min Scan# 641

Delta R.T. -0.01 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

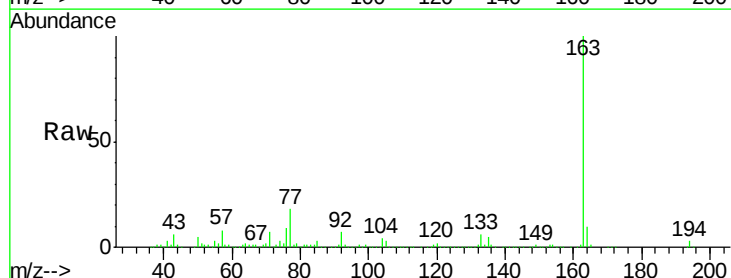
Tgt Ion:163 Resp: 370240

Ion Ratio Lower Upper

163 100

194 3.5 2.3 3.5#

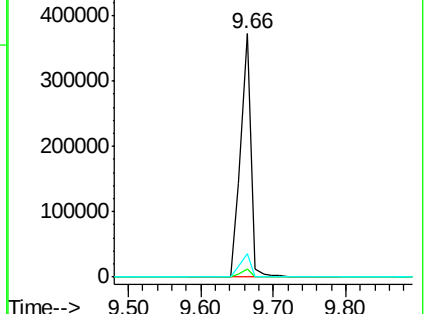
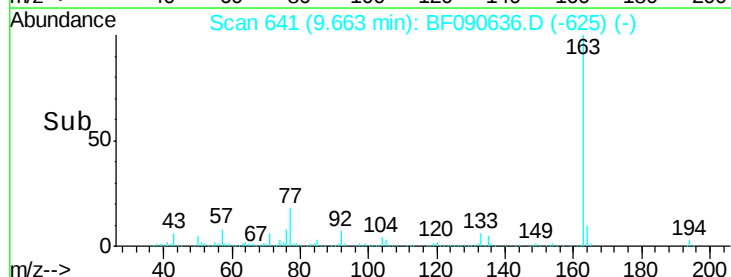
164 9.8 8.6 13.0

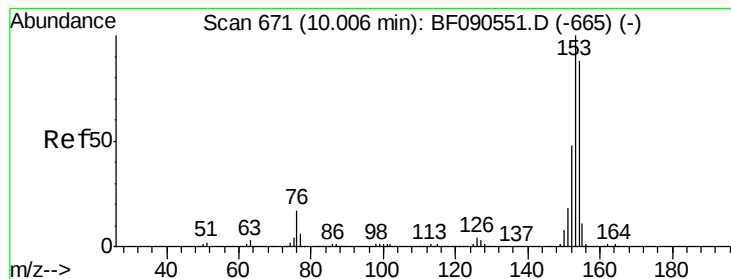


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.37 ng

RT: 9.97 min Scan# 668

Delta R.T. -0.02 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

BNA_F

ClientSampleId :

SP-2-1

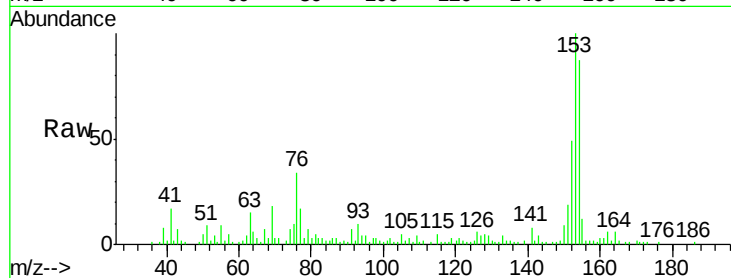
Tgt Ion:154 Resp: 55462

Ion Ratio Lower Upper

154 100

153 115.3 91.2 136.8

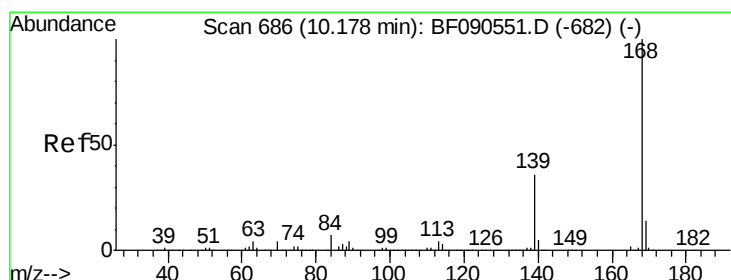
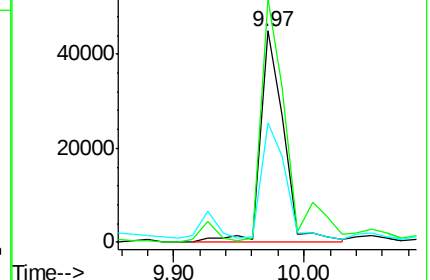
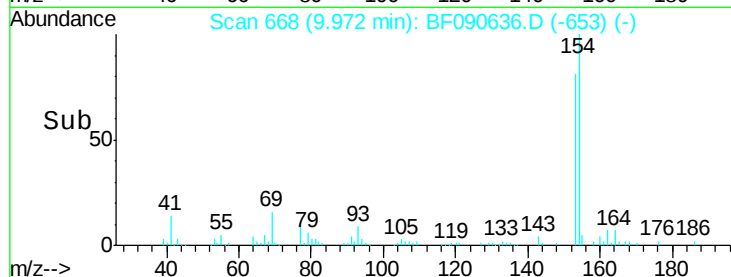
152 56.8 44.0 66.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.80 ng

RT: 10.15 min Scan# 684

Delta R.T. -0.01 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

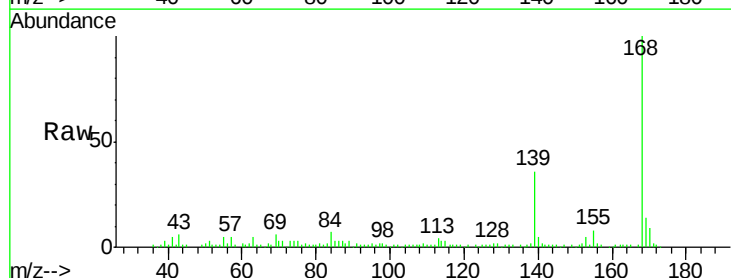
Tgt Ion:168 Resp: 116989

Ion Ratio Lower Upper

168 100

139 36.2 30.5 45.7

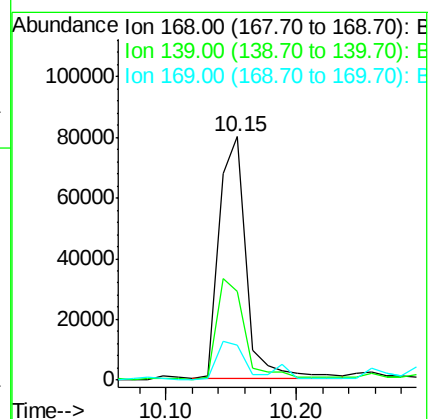
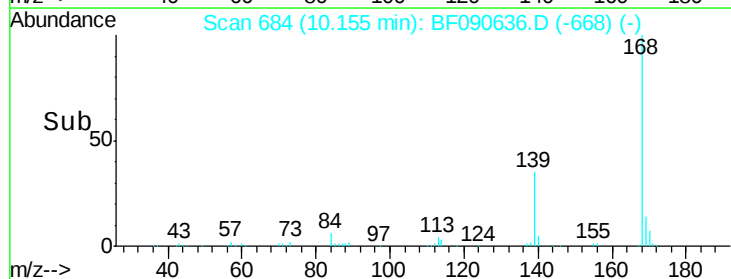
169 14.3 10.9 16.3

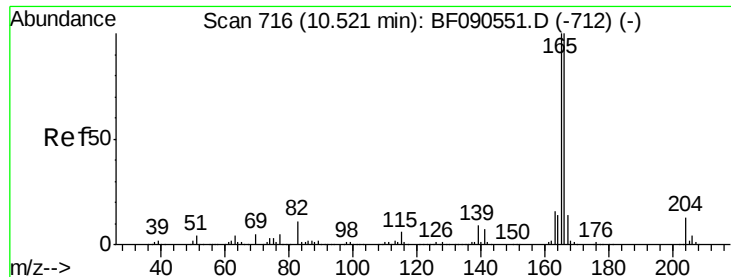


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

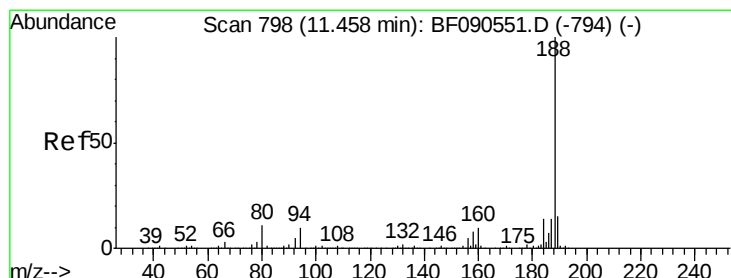
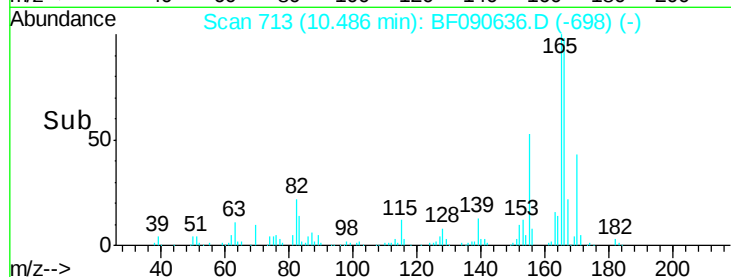
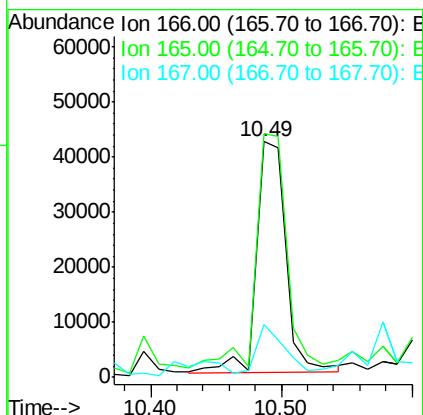
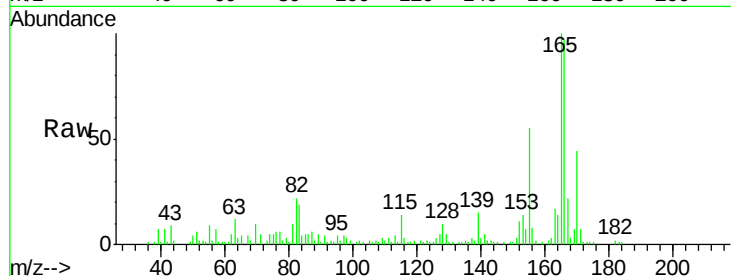




#57
 Fluorene
 Concen: 2.65 ng
 RT: 10.49 min Scan# 713
 Delta R.T. -0.02 min
 Lab File: BF090636.D
 Acq: 18 Oct 2016 19:03

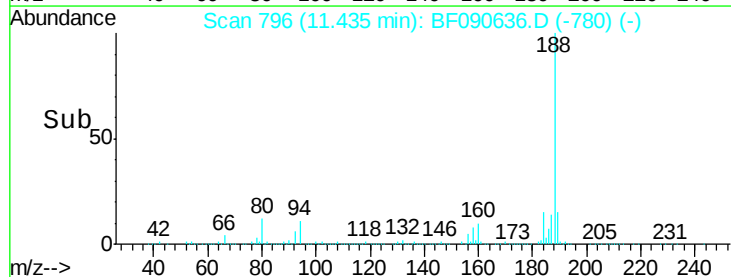
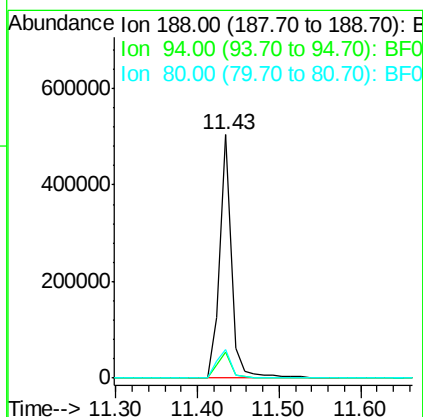
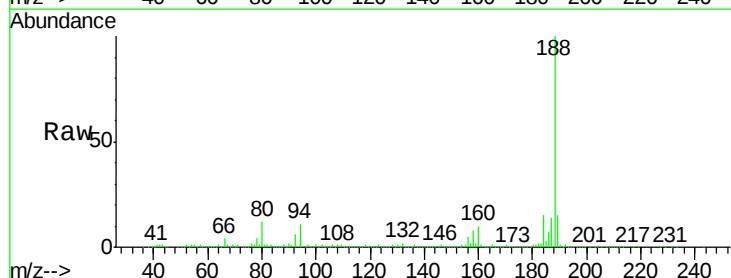
Instrument :
 BNA_F
 ClientSampleId :
 SP-2-1

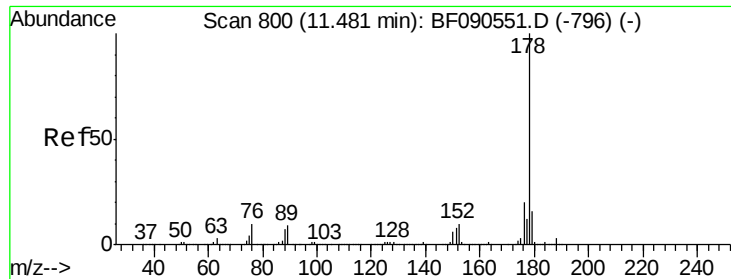
Tgt Ion:166 Resp: 67186
 Ion Ratio Lower Upper
 166 100
 165 103.3 79.9 119.9
 167 22.3 10.9 16.3#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.43 min Scan# 796
 Delta R.T. -0.01 min
 Lab File: BF090636.D
 Acq: 18 Oct 2016 19:03

Tgt Ion:188 Resp: 508445
 Ion Ratio Lower Upper
 188 100
 94 10.8 7.7 11.5
 80 11.8 8.6 12.8





#70

Phenanthrene

Concen: 55.98 ng

RT: 11.46 min Scan# 798

Delta R.T. -0.01 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

BNA_F

ClientSampleId :

SP-2-1

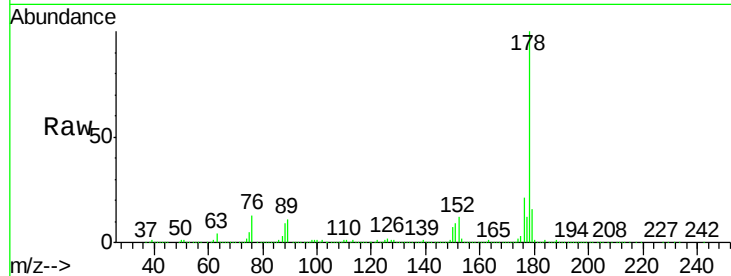
Tgt Ion:178 Resp: 1519320

Ion Ratio Lower Upper

178 100

176 20.8 16.1 24.1

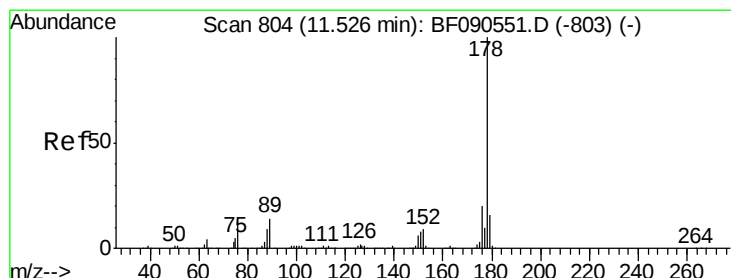
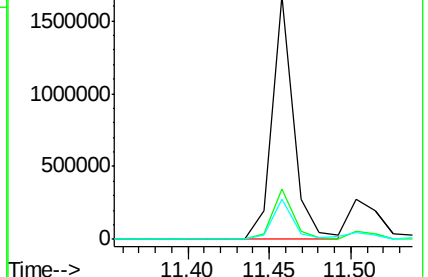
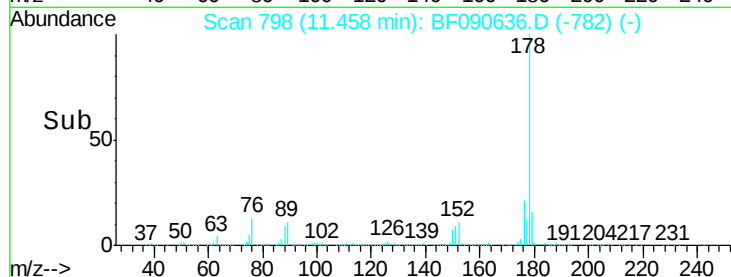
179 16.3 12.6 19.0



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: 13.12 ng

RT: 11.50 min Scan# 802

Delta R.T. -0.01 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

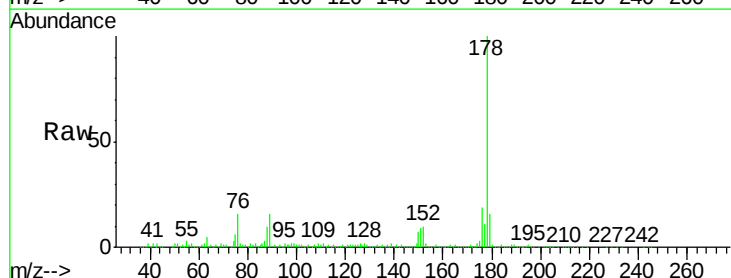
Tgt Ion:178 Resp: 383360

Ion Ratio Lower Upper

178 100

176 18.7 15.5 23.3

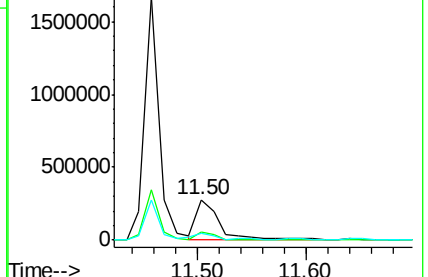
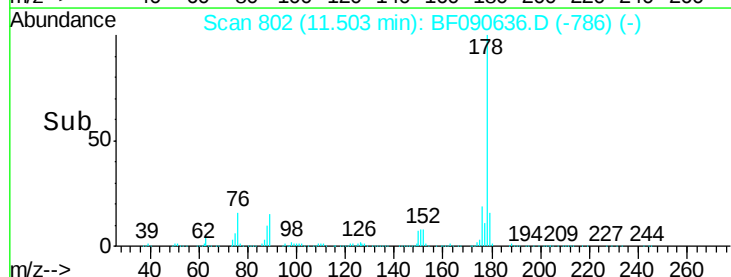
179 16.4 13.0 19.4

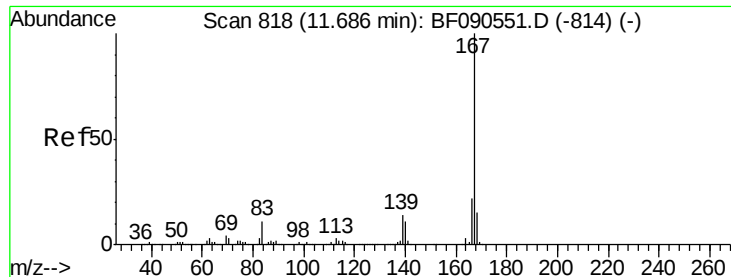


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.66 ng

RT: 11.66 min Scan# 816

Delta R.T. -0.01 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

BNA_F

ClientSampled :

SP-2-1

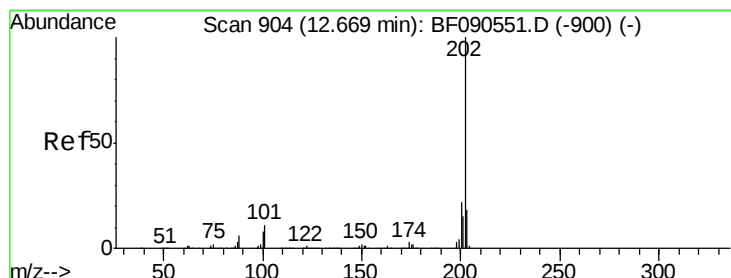
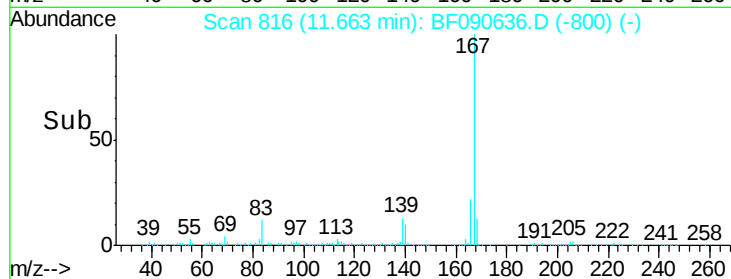
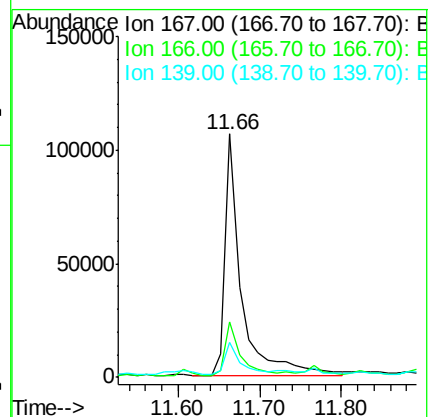
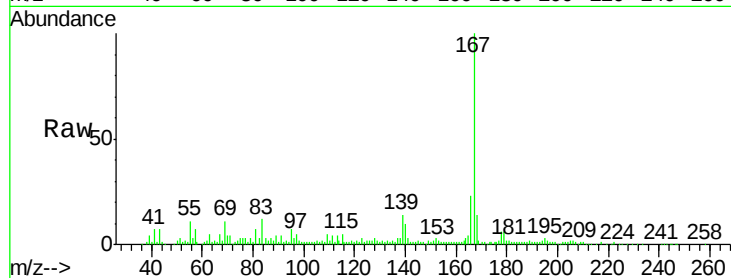
Tgt Ion:167 Resp: 148003

Ion Ratio Lower Upper

167 100

166 22.8 17.8 26.8

139 14.4 11.3 16.9



#74

Fluoranthene

Concen: 91.70 ng

RT: 12.66 min Scan# 903

Delta R.T. -0.00 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

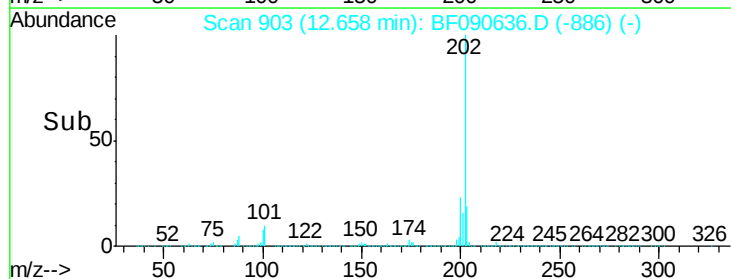
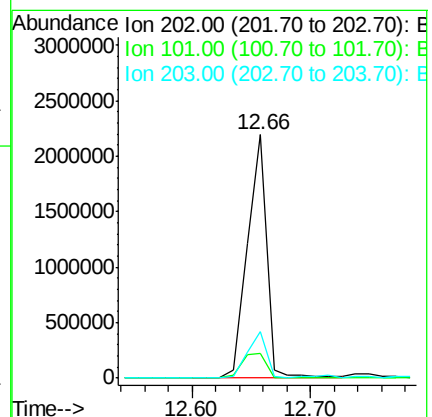
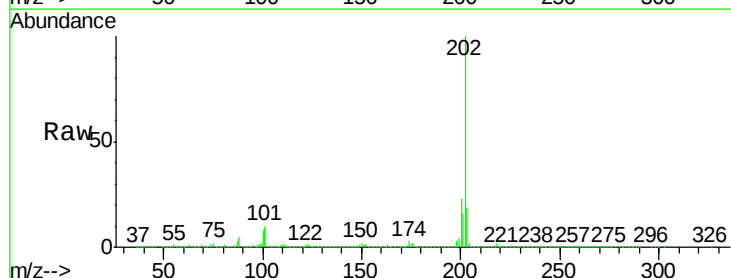
Tgt Ion:202 Resp: 2503491

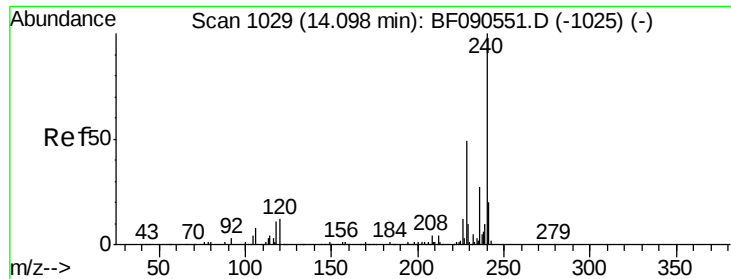
Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.1

203 19.0 0.0 38.0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.09 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

BNA_F

ClientSampleId :

SP-2-1

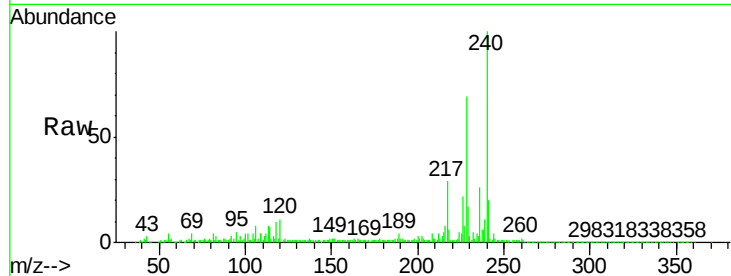
Tgt Ion:240 Resp: 550725

Ion Ratio Lower Upper

240 100

120 11.4 9.8 14.8

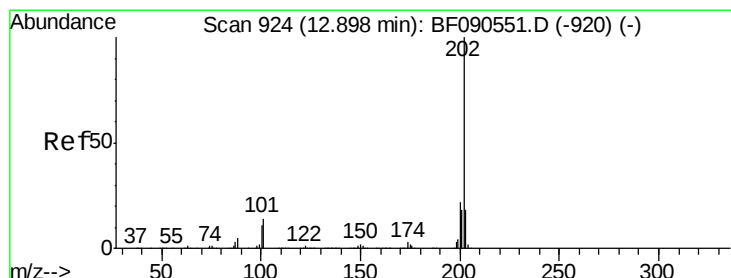
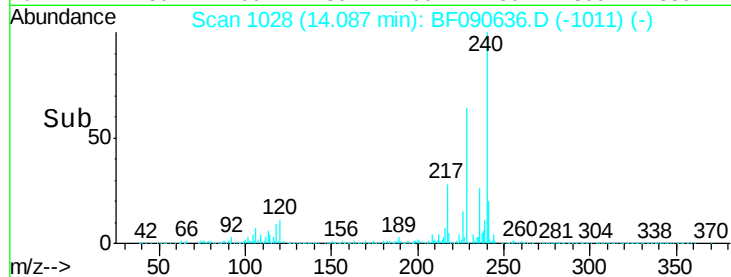
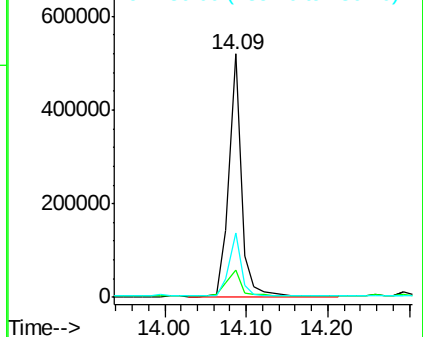
236 26.5 21.7 32.5



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: 59.69 ng

RT: 12.89 min Scan# 923

Delta R.T. -0.00 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

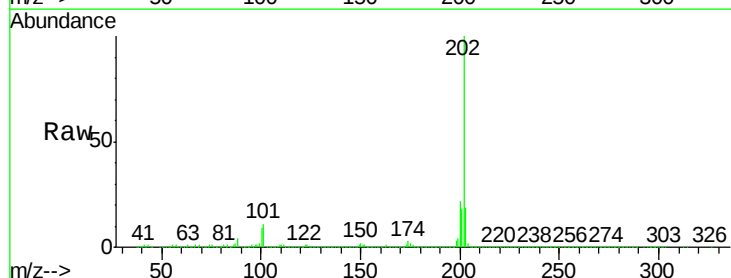
Tgt Ion:202 Resp: 2177139

Ion Ratio Lower Upper

202 100

200 22.4 17.8 26.6

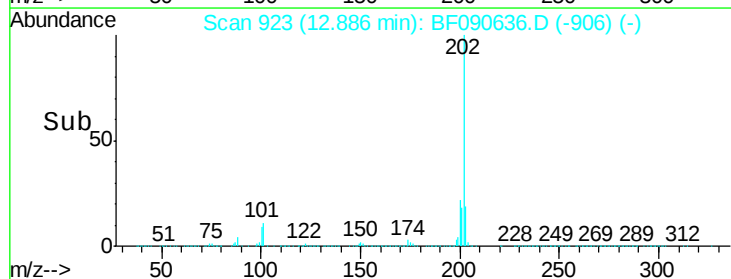
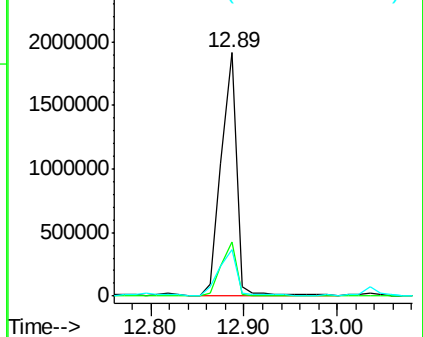
203 19.0 14.6 21.8

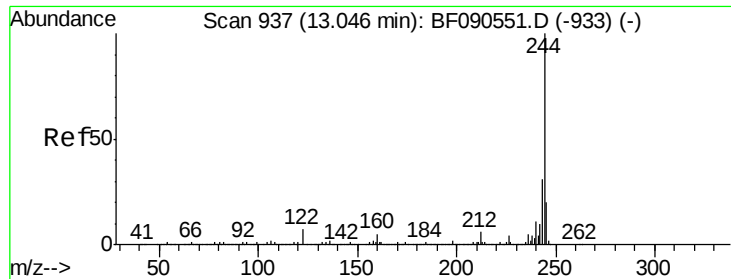


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 47.01 ng

RT: 13.02 min Scan# 935

Delta R.T. -0.01 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

BNA_F

ClientSampleId :

SP-2-1

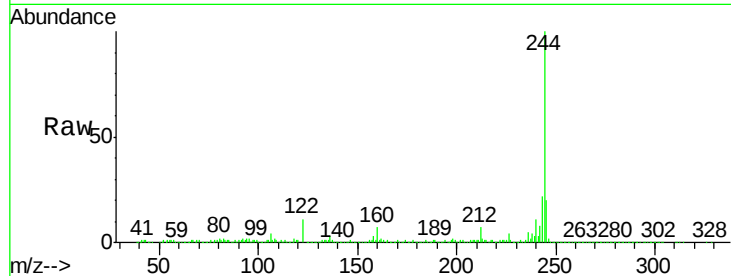
Tgt Ion:244 Resp: 1111830

Ion Ratio Lower Upper

244 100

212 6.8 5.0 7.4

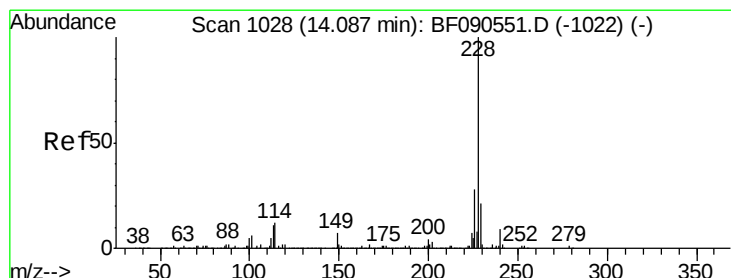
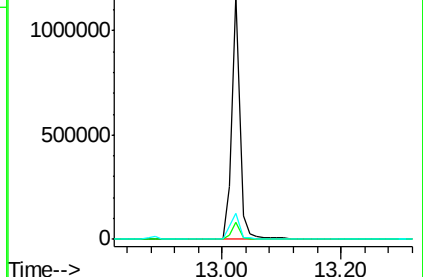
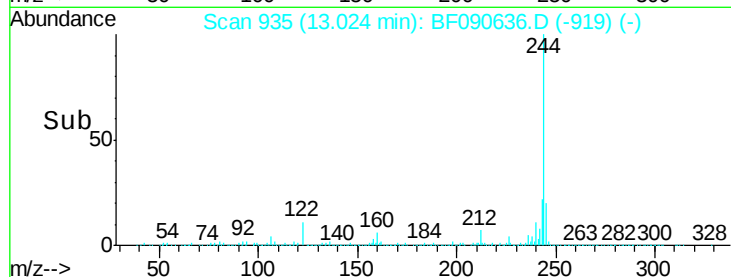
122 10.9 5.6 8.4#



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: 51.51 ng

RT: 14.08 min Scan# 1027

Delta R.T. -0.00 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

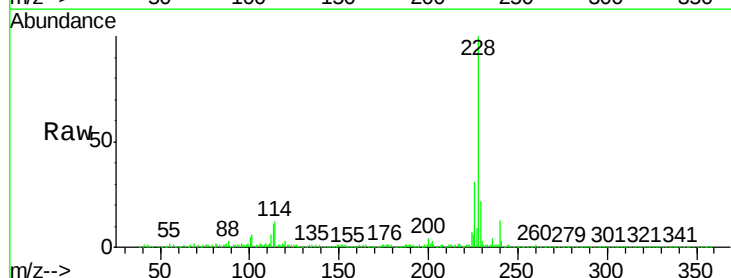
Tgt Ion:228 Resp: 1615006

Ion Ratio Lower Upper

228 100

226 31.4 22.8 34.2

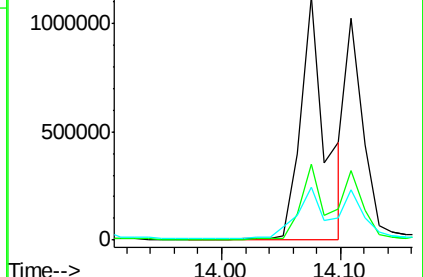
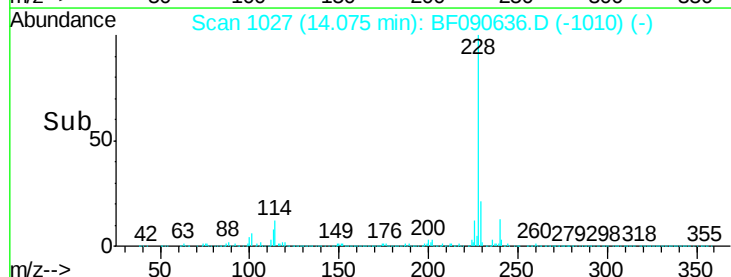
229 21.7 16.6 25.0

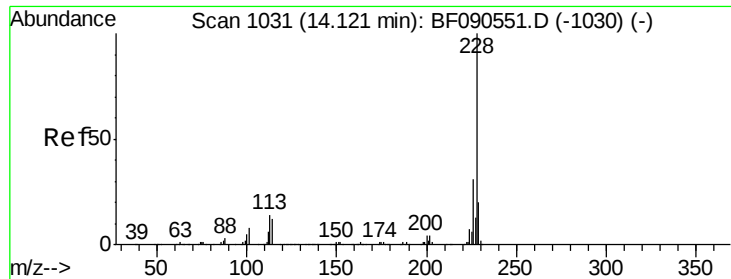


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 53.46 ng

RT: 14.08 min Scan# 1027

Delta R.T. -0.03 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

Instrument :

BNA_F

ClientSampleId :

SP-2-1

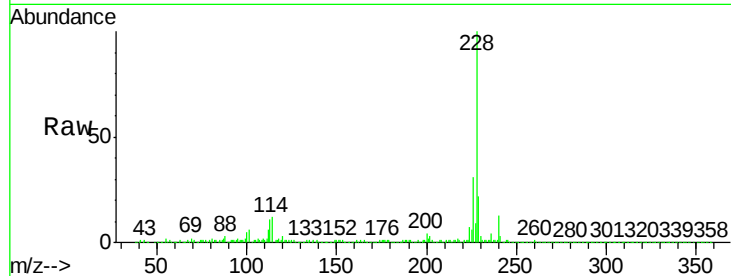
Tgt Ion:228 Resp: 1615006

Ion Ratio Lower Upper

228 100

226 31.4 24.8 37.2

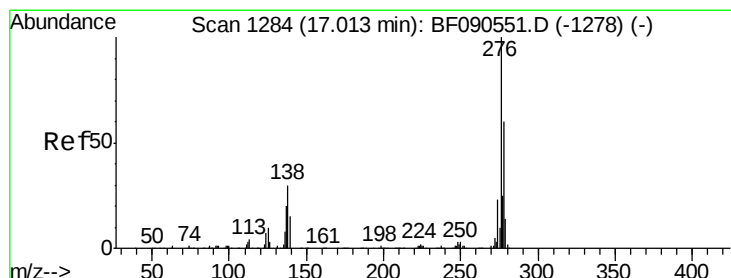
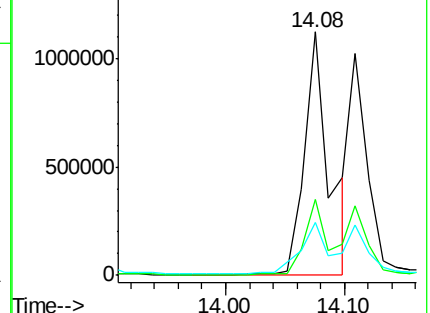
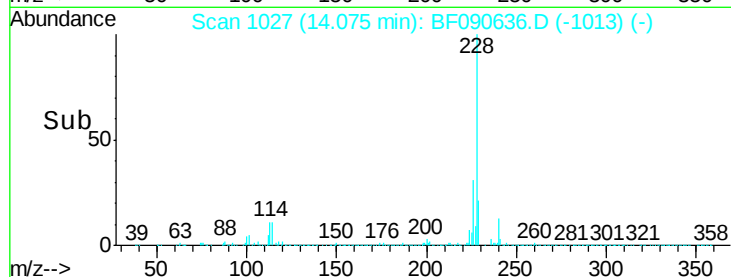
229 21.7 16.2 24.4



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: 31.82 ng

RT: 17.01 min Scan# 1284

Delta R.T. 0.02 min

Lab File: BF090636.D

Acq: 18 Oct 2016 19:03

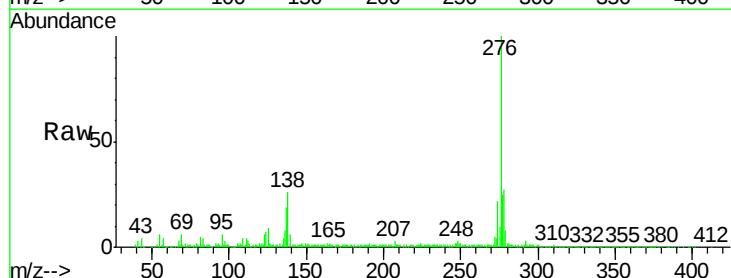
Tgt Ion:276 Resp: 555721

Ion Ratio Lower Upper

276 100

138 24.6 25.8 38.6#

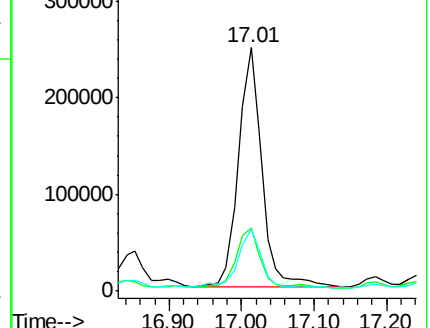
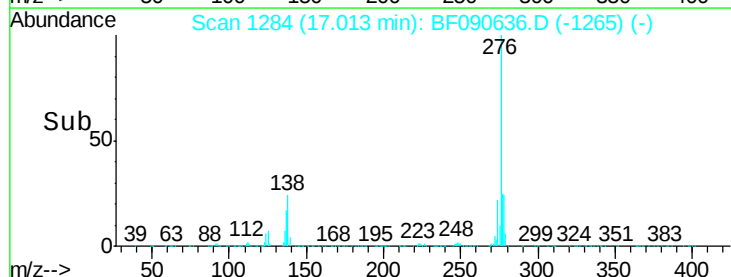
277 23.1 20.1 30.1

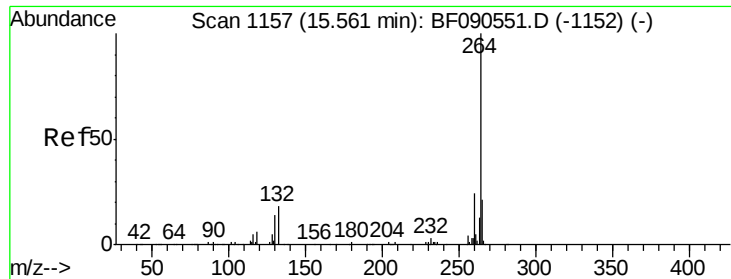


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



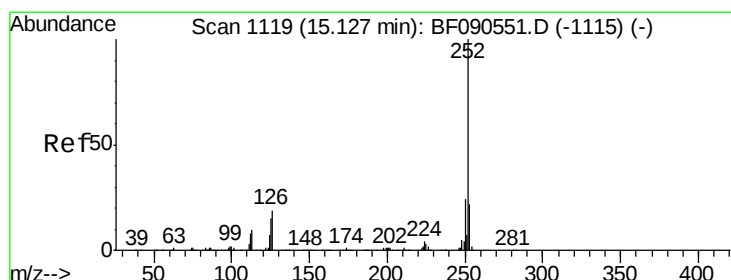
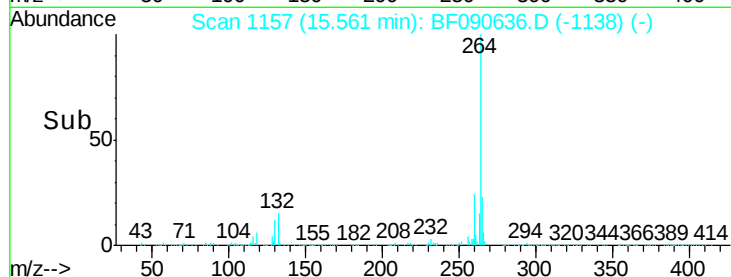
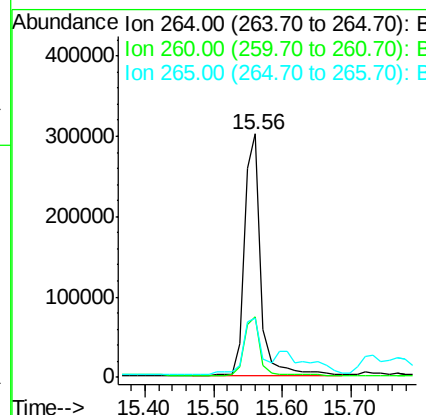
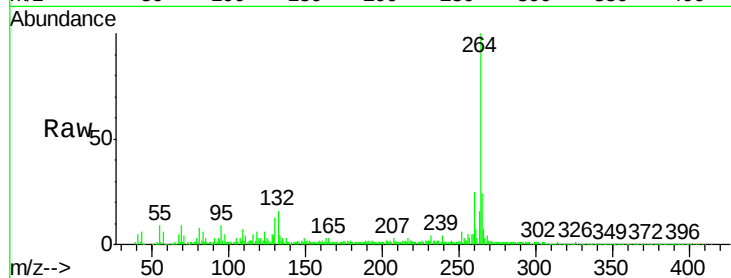


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.56 min Scan# 1157
Delta R.T. 0.02 min
Lab File: BF090636.D
Acq: 18 Oct 2016 19:03

Instrument :
BNA_F
ClientSampleId :
SP-2-1

Tgt Ion: 264 Resp: 500246

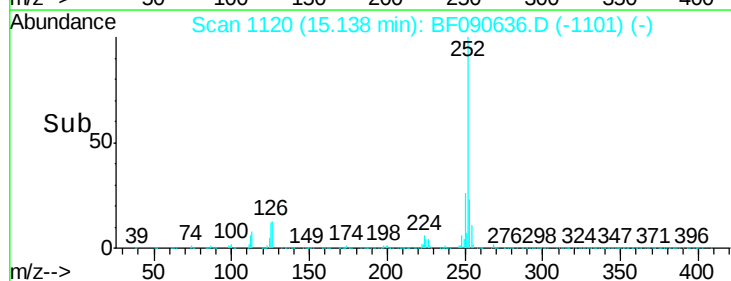
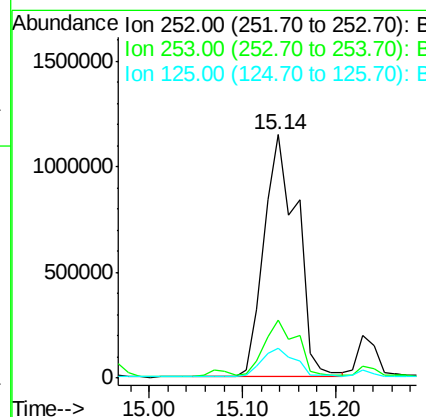
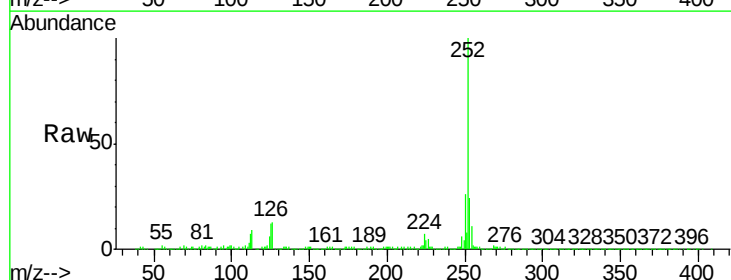
Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.3	28.9
265	24.1	16.7	25.1

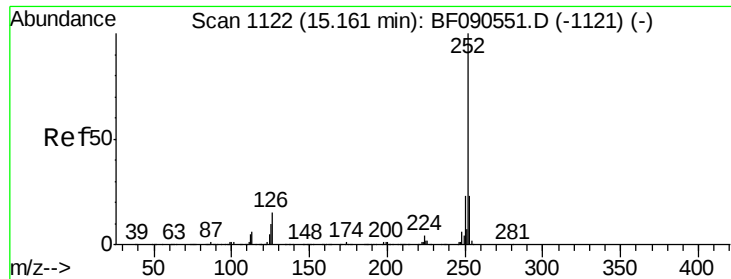


#87
Benzo(b)fluoranthene
Concen: 86.52 ng
RT: 15.14 min Scan# 1120
Delta R.T. 0.02 min
Lab File: BF090636.D
Acq: 18 Oct 2016 19:03

Tgt Ion: 252 Resp: 2832065

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.8	26.8
125	12.4	12.0	18.0

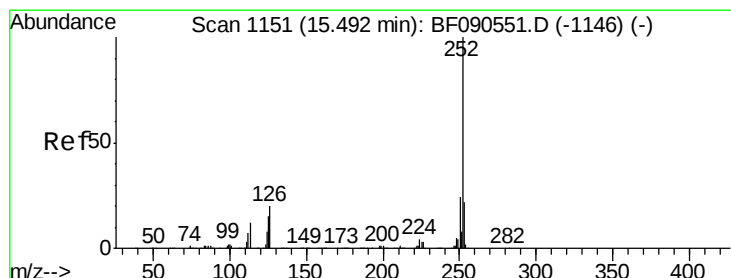
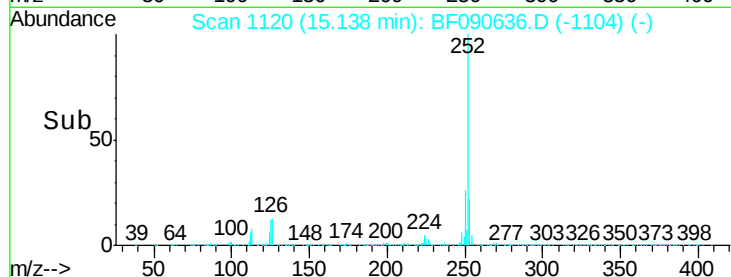
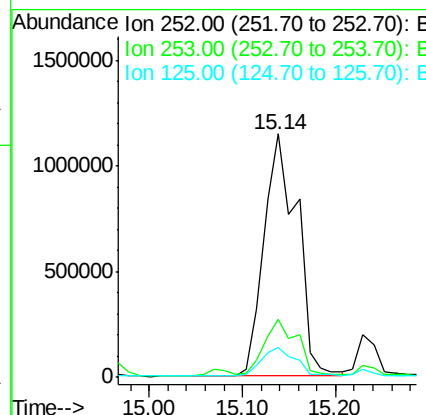
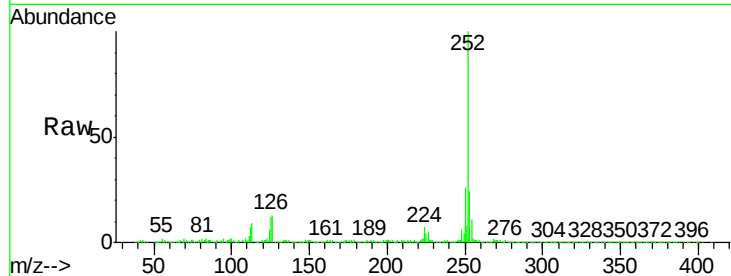




#88
Benzo(k)fluoranthene
Concen: 80.41 ng
RT: 15.14 min Scan# 1120
Delta R.T. -0.01 min
Lab File: BF090636.D
Acq: 18 Oct 2016 19:03

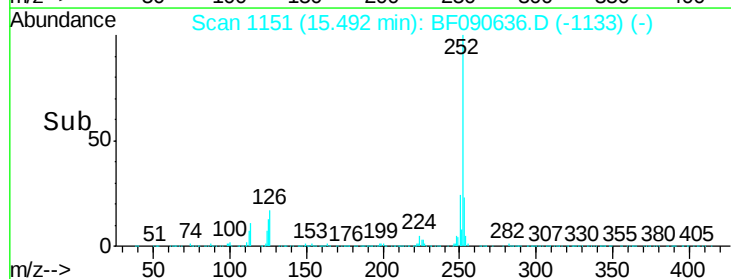
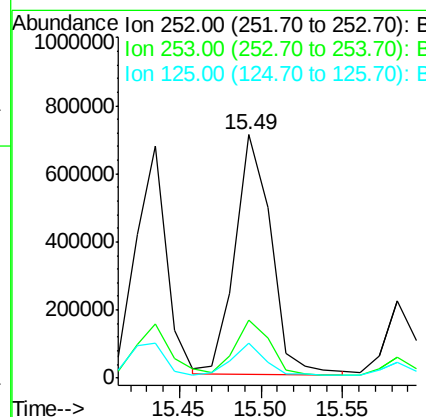
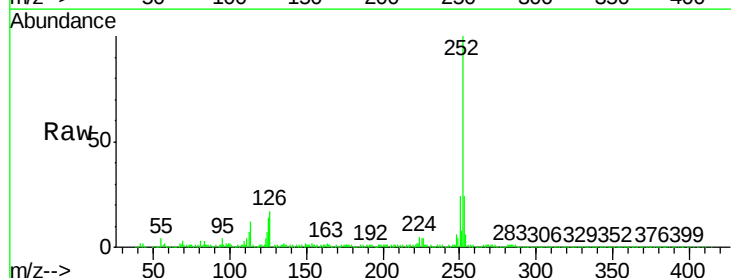
Instrument :
BNA_F
ClientSampleId :
SP-2-1

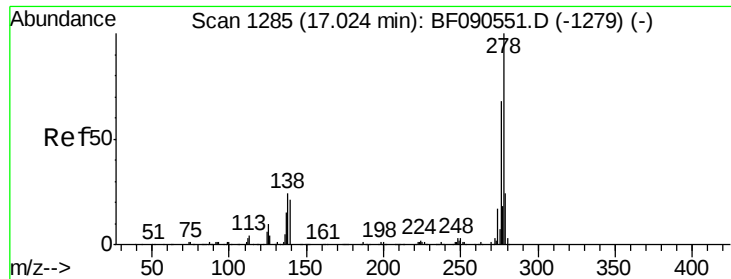
Tgt Ion:252 Resp: 2832065
Ion Ratio Lower Upper
252 100
253 23.7 18.0 27.0
125 12.4 10.0 15.0



#89
Benzo(a)pyrene
Concen: 35.88 ng
RT: 15.49 min Scan# 1151
Delta R.T. 0.01 min
Lab File: BF090636.D
Acq: 18 Oct 2016 19:03

Tgt Ion:252 Resp: 1075190
Ion Ratio Lower Upper
252 100
253 23.8 17.9 26.9
125 14.3 12.3 18.5

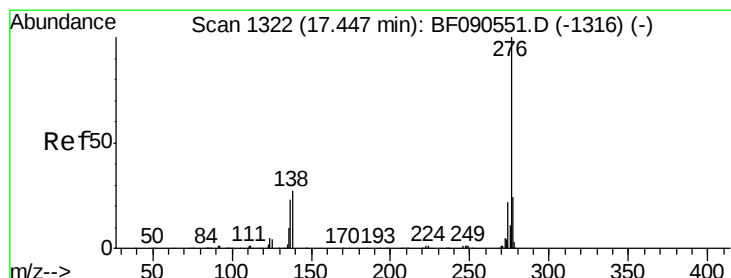
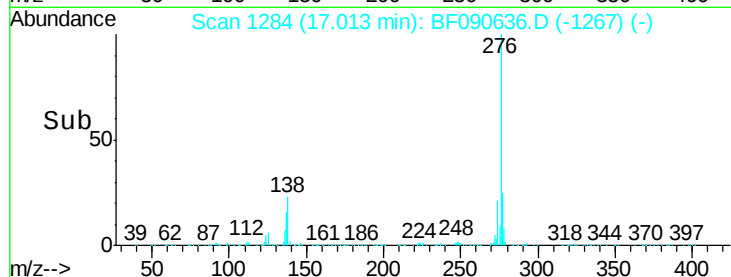
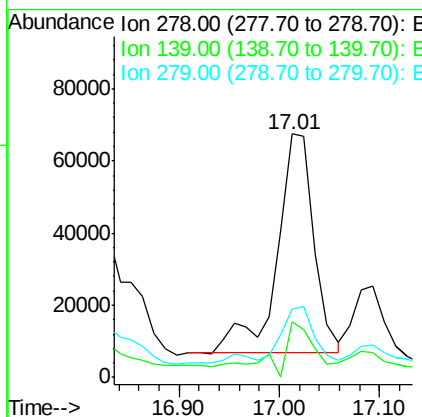
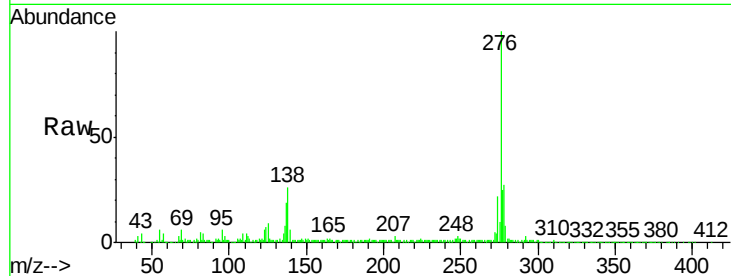




#90
Dibenzo(a,h)anthracene
Concen: 6.71 ng
RT: 17.01 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BF090636.D
Acq: 18 Oct 2016 19:03

Instrument :
BNA_F
ClientSampleId :
SP-2-1

Tgt Ion: 278 Resp: 153462
Ion Ratio Lower Upper
278 100
139 22.8 16.6 25.0
279 28.1 19.1 28.7



#91
Benzo(g,h,i)perylene
Concen: 20.34 ng
RT: 17.45 min Scan# 1322
Delta R.T. 0.02 min
Lab File: BF090636.D
Acq: 18 Oct 2016 19:03

Tgt Ion: 276 Resp: 443360
Ion Ratio Lower Upper
276 100
277 24.3 18.8 28.2
138 28.2 21.8 32.8

