

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110116\
 Data File : BF090966.D
 Acq On : 1 Nov 2016 22:16
 Operator : UM/SJ
 Sample : H5463-03
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-2(0-2)RE

Quant Time: Nov 01 23:56:47 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 01 11:53:50 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	656317	20.00	ng	0.15
21) Naphthalene-d8	8.02	136	747163	20.00	ng	-0.02
38) Acenaphthene-d10	9.78	164	385931	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	541239	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	374795	20.00	ng	-0.01
86) Perylene-d12	15.29	264	332678	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	1318238	35.12	ng	0.00
7) Phenol-d6	6.38	99	1715035	33.87	ng	-0.01
23) Nitrobenzene-d5	7.30	82	1219737	106.87	ng	-0.02
41) 2,4,6-Tribromophenol	10.57	330	380760	96.00	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	1906318	86.74	ng	-0.01
78) Terphenyl-d14	12.84	244	1602205	107.70	ng	-0.01

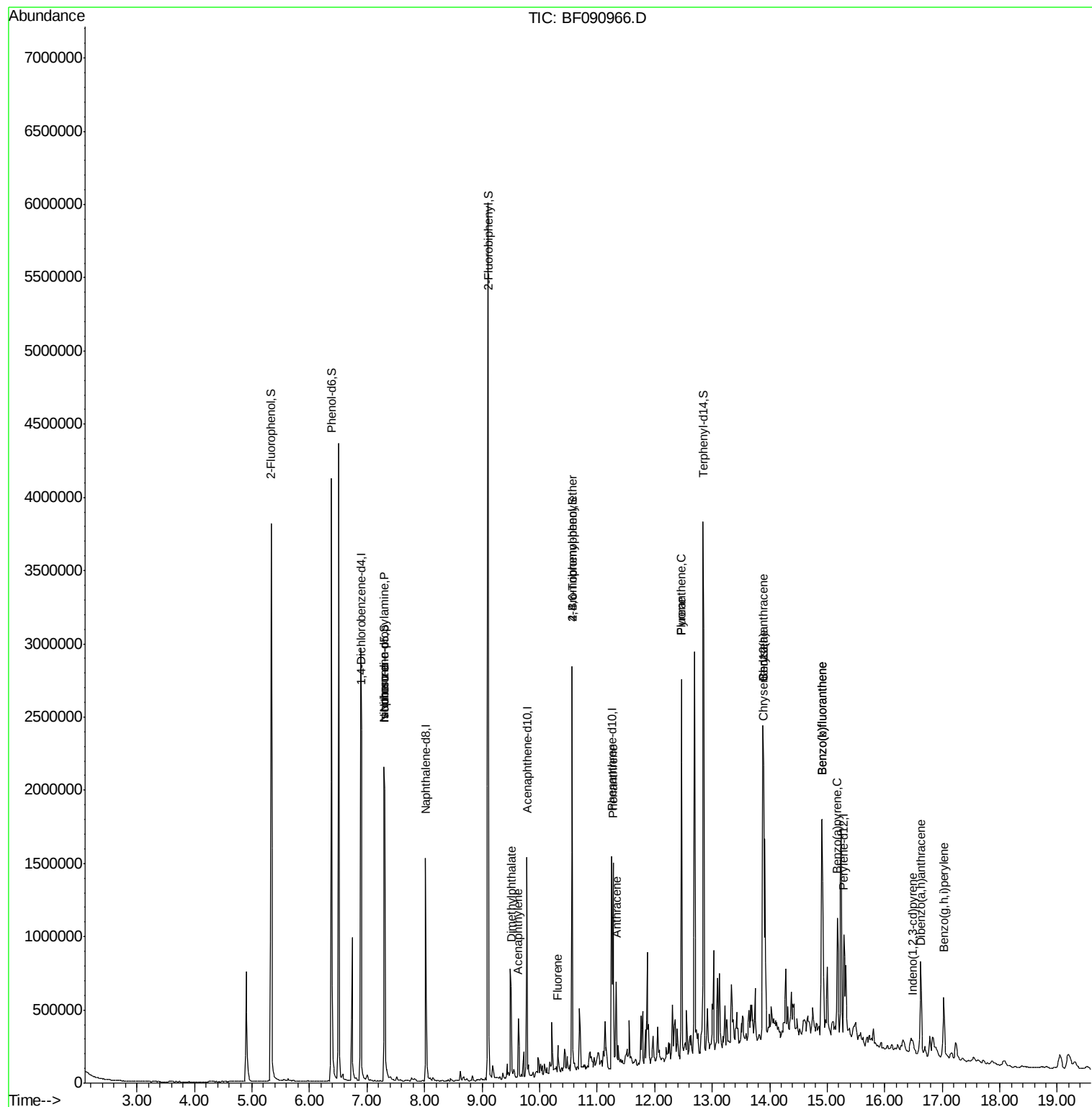
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.30	70	167275	5.71	ng	# 55
25) Isophorone	7.30	82	1122001	48.44	ng	# 58
48) Acenaphthylene	9.63	152	196949	6.15	ng	97
49) Dimethylphthalate	9.50	163	391182	15.17	ng	# 97
57) Fluorene	10.32	166	64701	2.78	ng	# 89
66) 4-Bromophenyl-phenylether	10.57	248	26015	4.39	ng	# 1
70) Phenanthrene	11.28	178	552660	20.05	ng	96
71) Anthracene	11.33	178	251105	8.65	ng	98
74) Fluoranthene	12.46	202	1383681	45.84	ng	98
77) Pyrene	12.46	202	1383681	58.34	ng	95
80) Benzo(a)anthracene	13.88	228	770758	38.75	ng	# 76
82) Chrysene	13.88	228	770758	38.31	ng	# 77
85) Indeno(1,2,3-cd)pyrene	16.48	276	71798	4.03	ng	93
87) Benzo(b)fluoranthene	14.91	252	1188500	53.13	ng	# 91
88) Benzo(k)fluoranthene	14.91	252	1188500	67.23	ng	# 91
89) Benzo(a)pyrene	15.17	252	379555	19.75	ng	98
90) Dibenzo(a,h)anthracene	16.64	278	98223	6.04	ng	# 81
91) Benzo(g,h,i)perylene	17.03	276	286943	18.72	ng	# 85

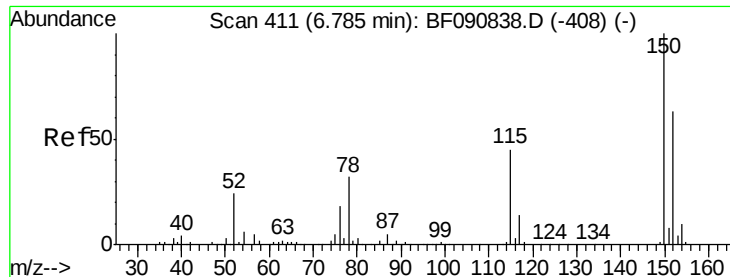
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. 0.15 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

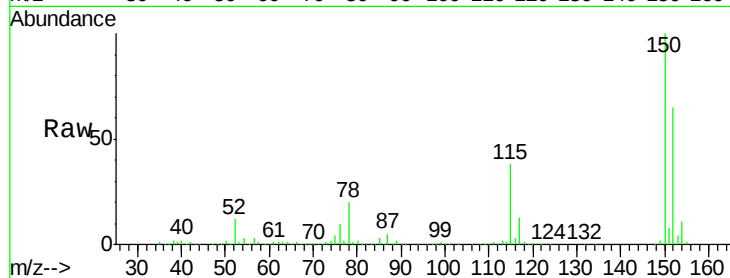
Tgt Ion:152 Resp: 656317

Ion Ratio Lower Upper

152 100

150 153.7 124.7 187.1

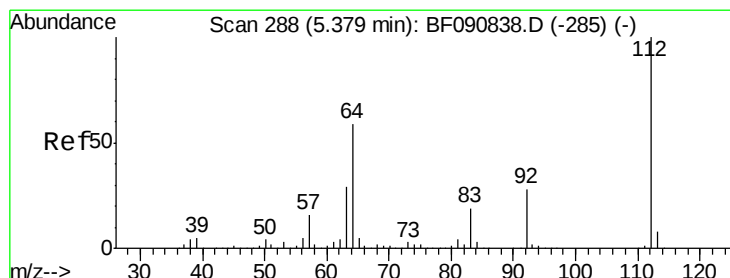
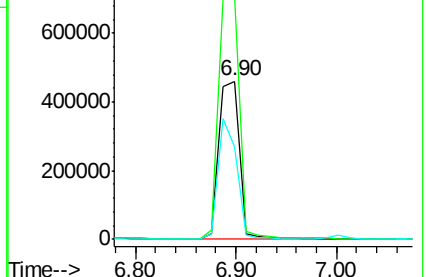
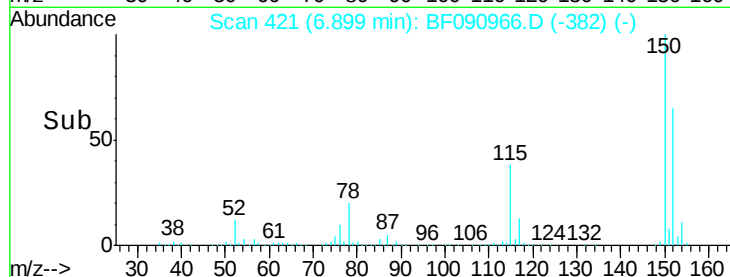
115 58.3 39.0 58.4



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: 35.12 ng

RT: 5.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

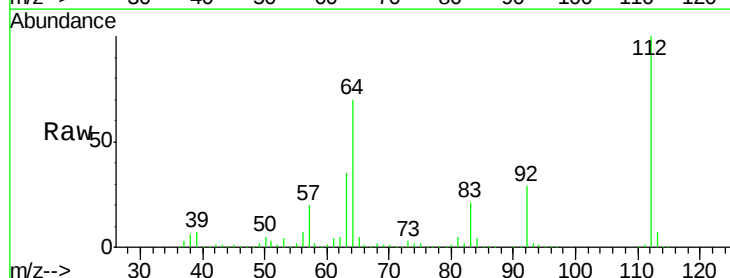
Tgt Ion:112 Resp: 1318238

Ion Ratio Lower Upper

112 100

64 70.0 39.7 59.5#

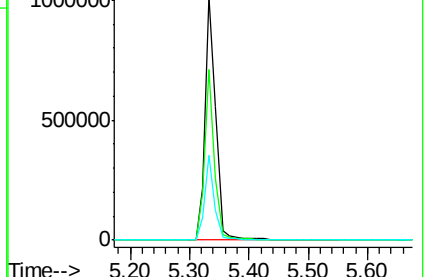
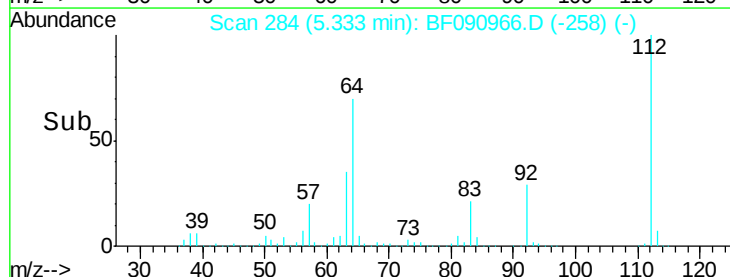
63 34.7 17.4 26.0#



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: 33.87 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

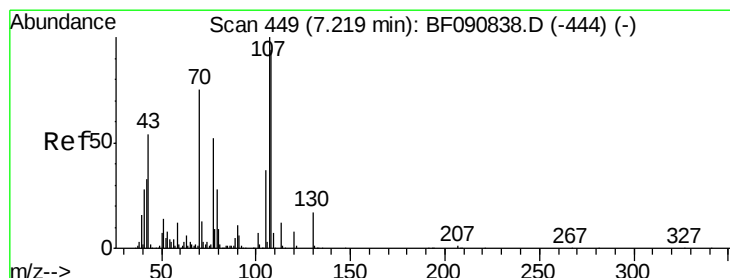
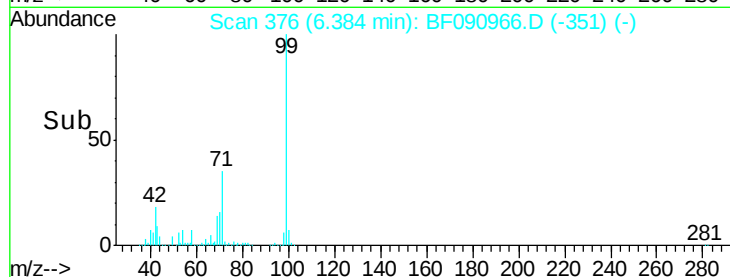
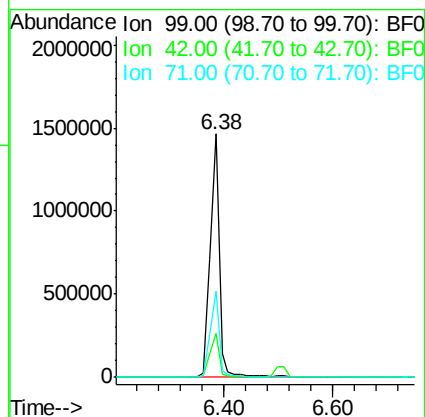
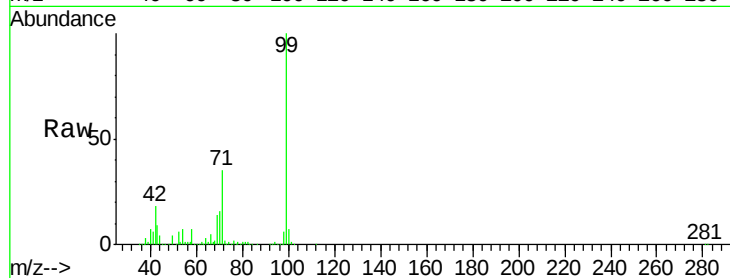
Tgt Ion: 99 Resp: 1715035

Ion Ratio Lower Upper

99 100

42 17.8 13.7 20.5

71 35.1 14.2 21.2#



#19

n-Nitroso-di-n-propylamine

Concen: 5.71 ng

RT: 7.30 min Scan# 456

Delta R.T. 0.13 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Tgt Ion: 70 Resp: 167275

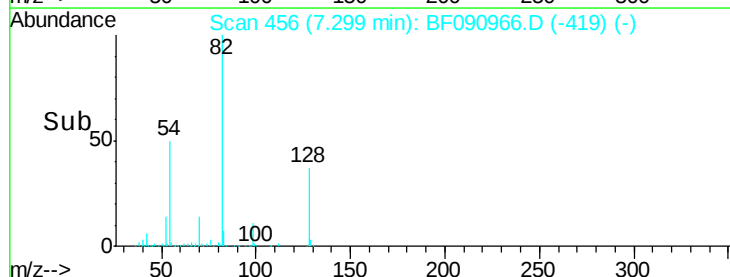
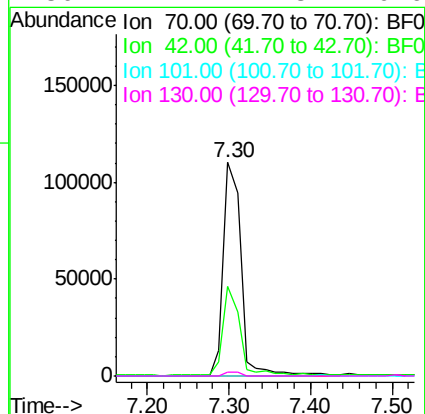
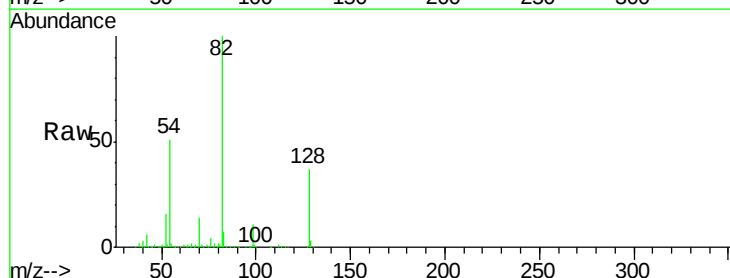
Ion Ratio Lower Upper

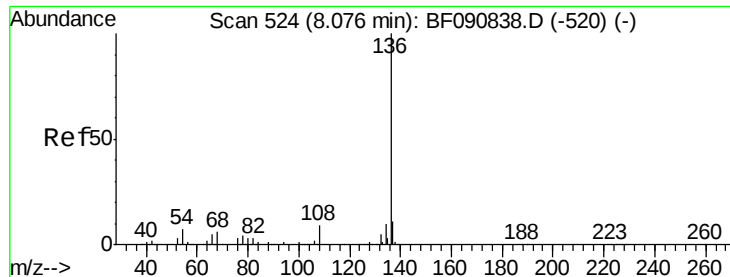
70 100

42 42.2 63.8 95.6#

101 0.0 9.2 13.8#

130 1.7 27.3 40.9#

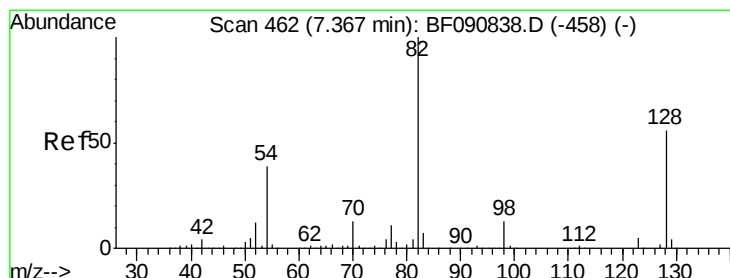
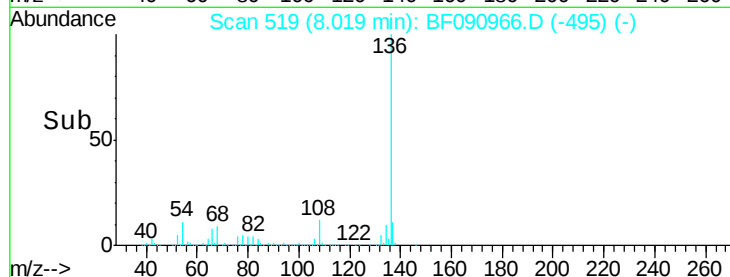
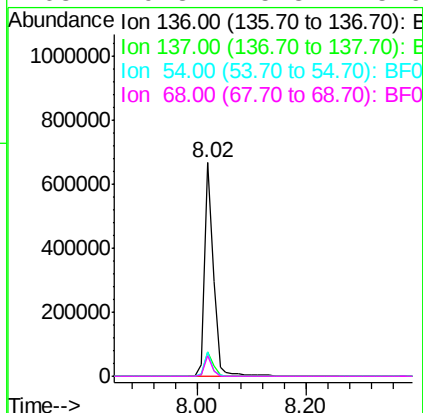
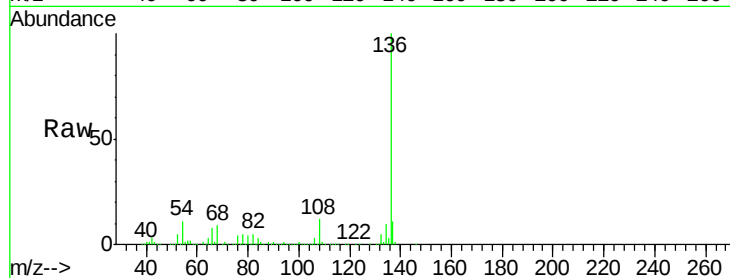




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.02 min Scan# 519
Delta R.T. -0.02 min
Lab File: BF090966.D
Acq: 1 Nov 2016 22:16

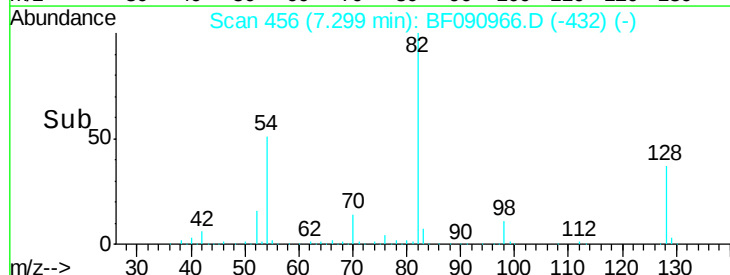
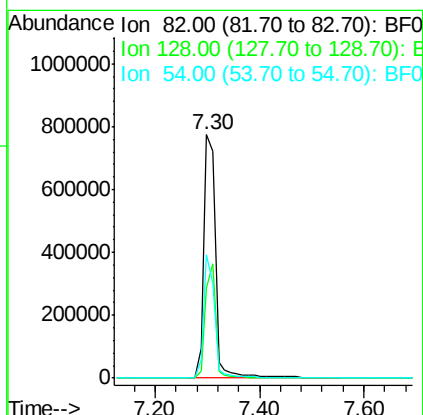
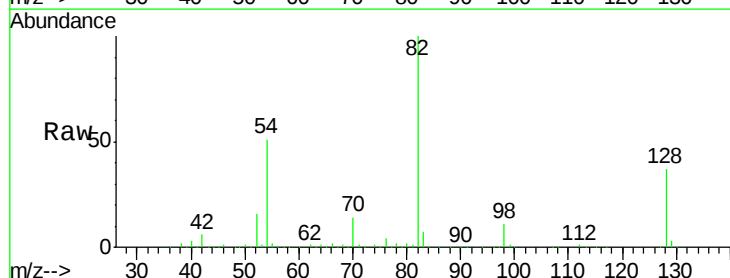
Instrument :
BNA_F
ClientSampleId :
SB-2(0-2)RE

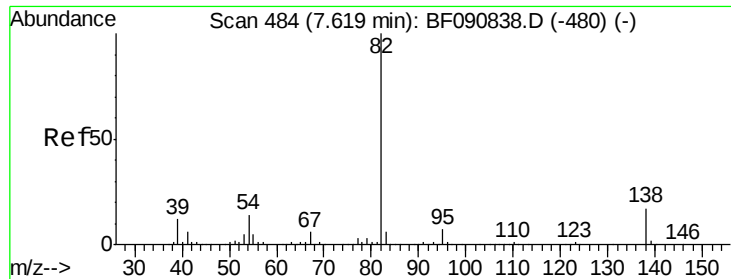
Tgt Ion:	136	Resp:	747163
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.6
54	11.5	8.2	12.2
68	9.3	5.8	8.6#



#23
Nitrobenzene-d5
Concen: 106.87 ng
RT: 7.30 min Scan# 456
Delta R.T. -0.02 min
Lab File: BF090966.D
Acq: 1 Nov 2016 22:16

Tgt Ion:	82	Resp:	1219737
Ion	Ratio	Lower	Upper
82	100		
128	37.0	51.0	76.6#
54	50.8	47.5	71.3





#25

Isophorone

Concen: 48.44 ng

RT: 7.30 min Scan# 456

Delta R.T. -0.29 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

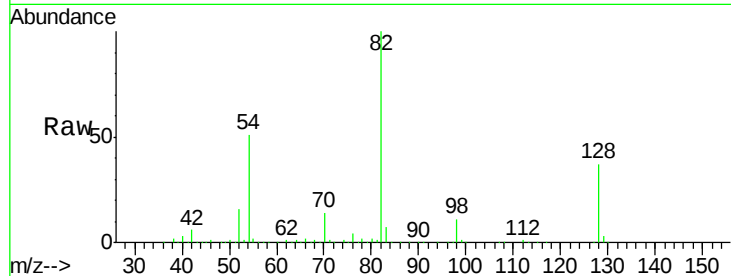
Tgt Ion: 82 Resp: 1122001

Ion Ratio Lower Upper

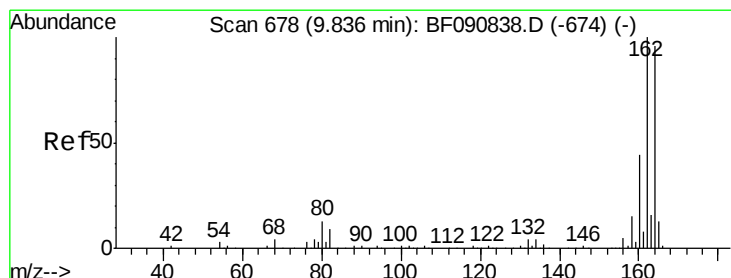
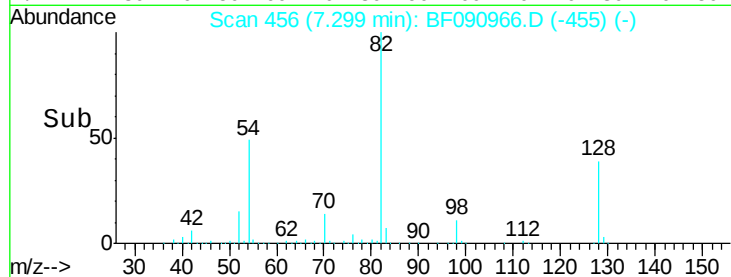
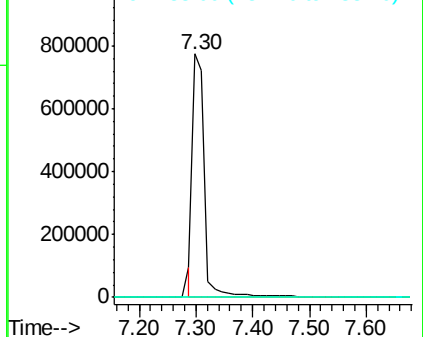
82 100

95 0.0 4.0 6.0#

138 0.0 18.3 27.5#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

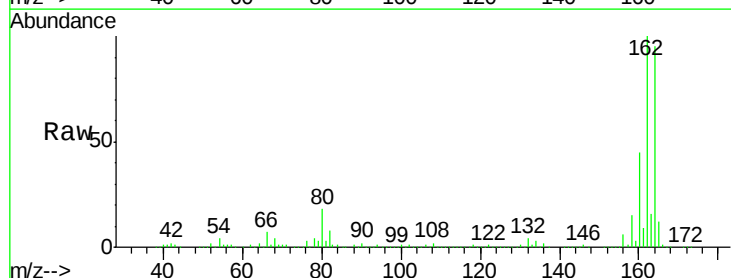
Tgt Ion: 164 Resp: 385931

Ion Ratio Lower Upper

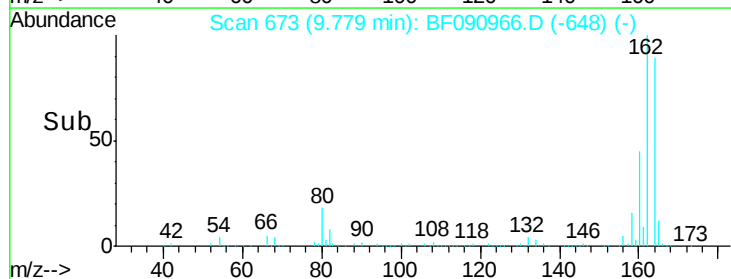
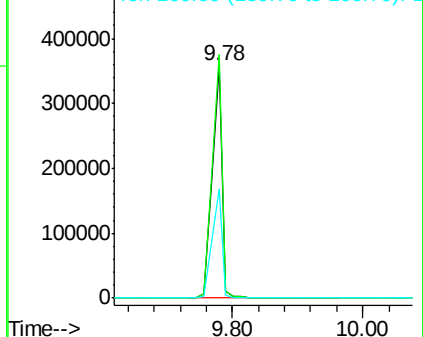
164 100

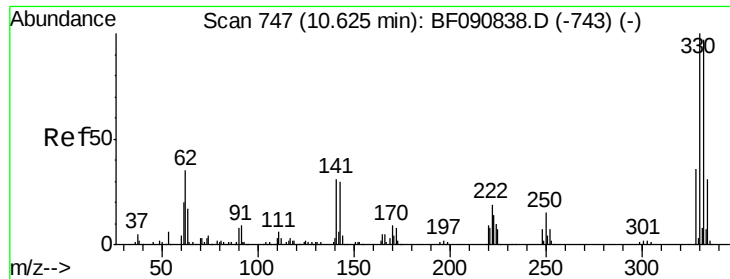
162 104.8 75.2 112.8

160 47.2 31.5 47.3



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

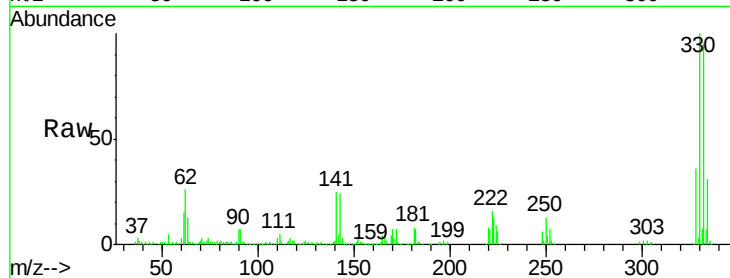




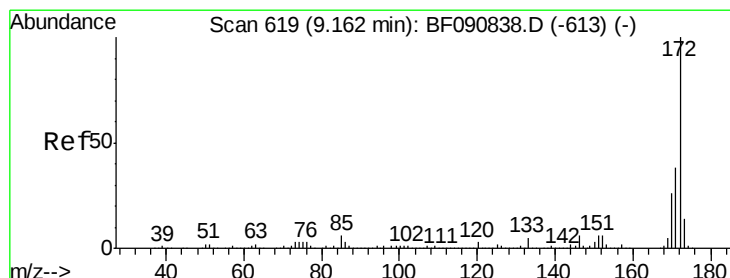
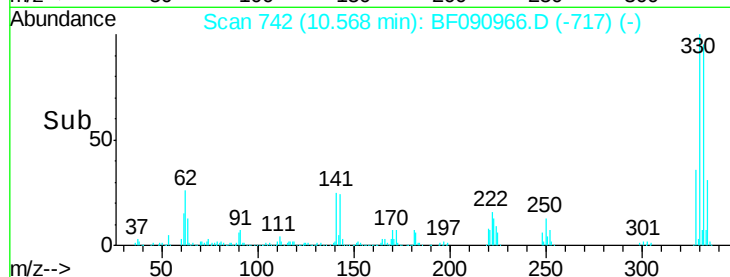
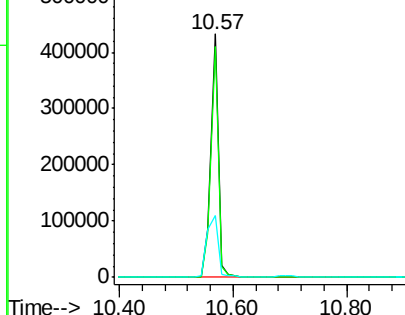
#41
 2,4,6-Tribromophenol
 Concen: 96.00 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.01 min
 Lab File: BF090966.D
 Acq: 1 Nov 2016 22:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-2(0-2)RE

Tgt Ion:330 Resp: 380760
 Ion Ratio Lower Upper
 330 100
 332 94.7 76.6 114.8
 141 36.7 29.7 44.5

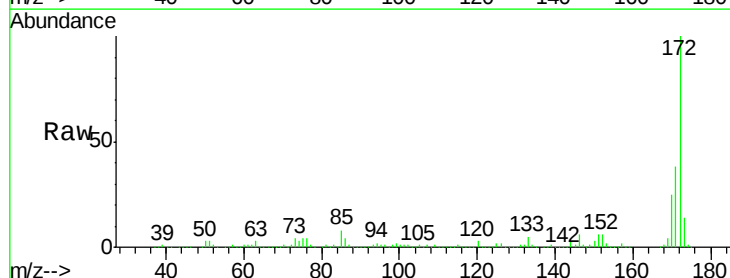


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

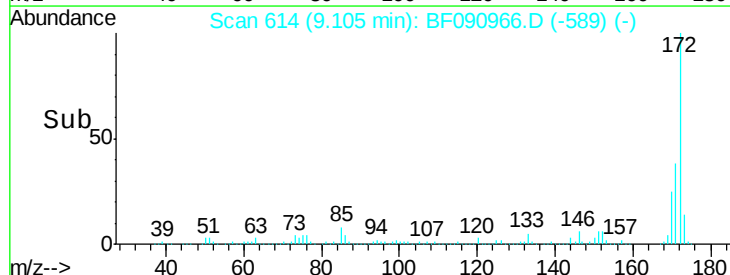
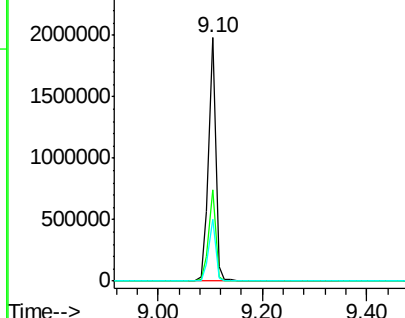


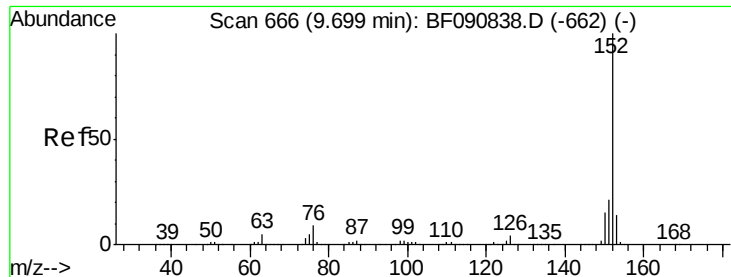
#44
 2-Fluorobiphenyl
 Concen: 86.74 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.01 min
 Lab File: BF090966.D
 Acq: 1 Nov 2016 22:16

Tgt Ion:172 Resp: 1906318
 Ion Ratio Lower Upper
 172 100
 171 37.5 26.1 39.1
 170 25.4 17.4 26.2



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: 6.15 ng

RT: 9.63 min Scan# 660

Delta R.T. -0.02 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

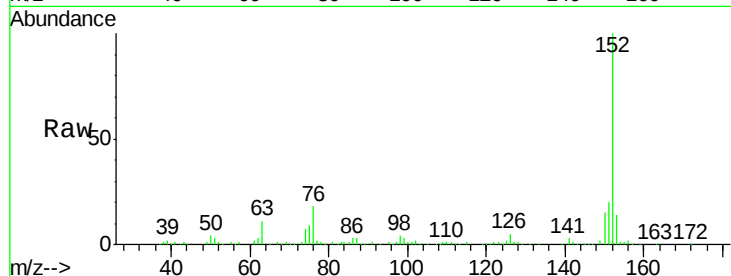
Tgt Ion:152 Resp: 196949

Ion Ratio Lower Upper

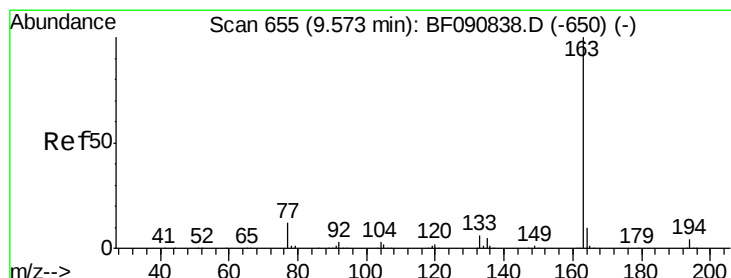
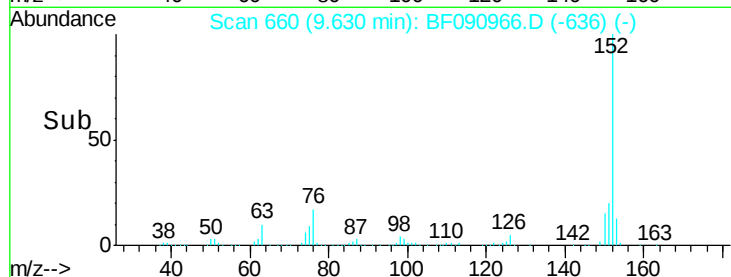
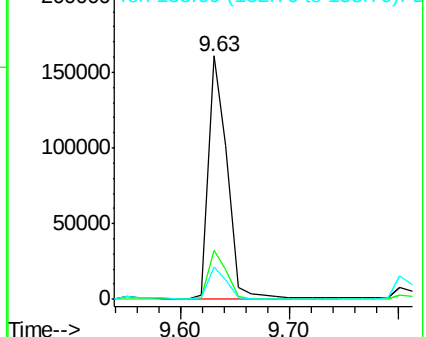
152 100

151 20.0 14.6 22.0

153 13.6 10.3 15.5



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: 15.17 ng

RT: 9.50 min Scan# 649

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

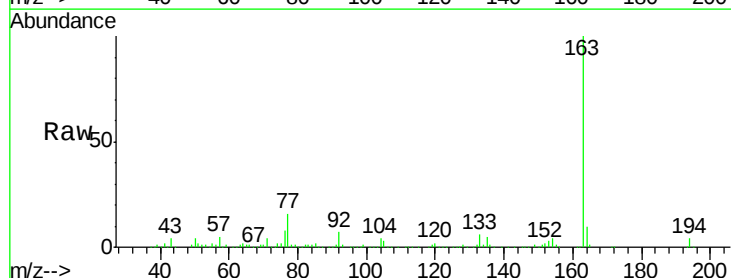
Tgt Ion:163 Resp: 391182

Ion Ratio Lower Upper

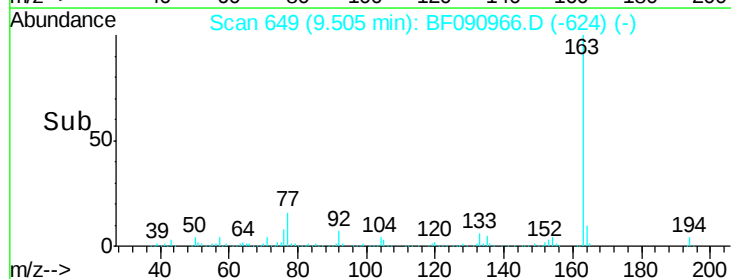
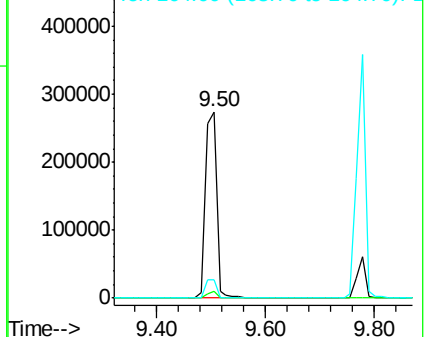
163 100

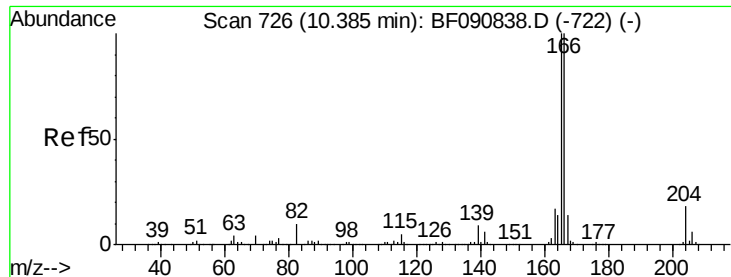
194 3.6 4.4 6.6#

164 9.7 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

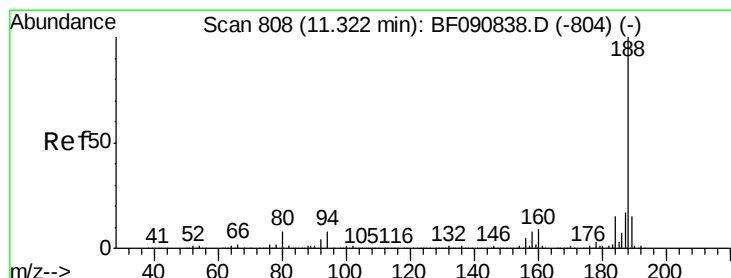
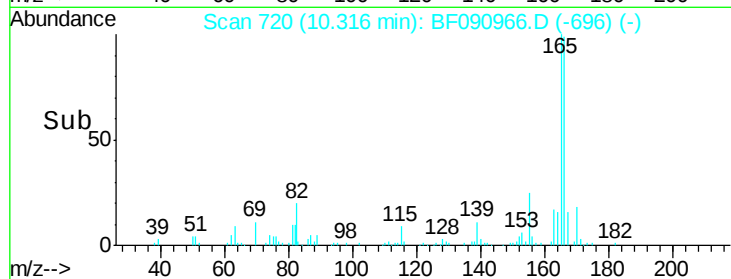
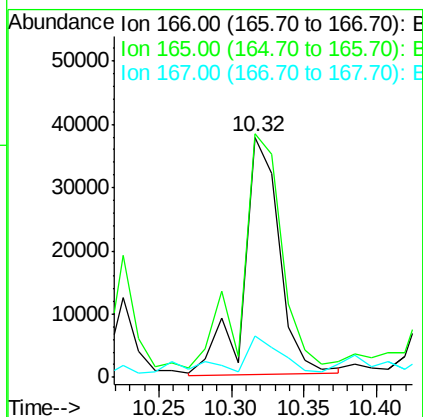
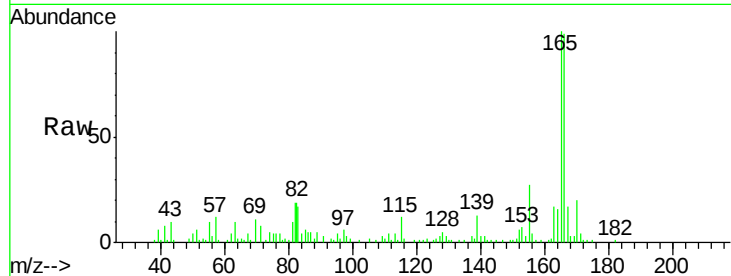




#57
Fluorene
 Concen: 2.78 ng
 RT: 10.32 min Scan# 720
 Delta R.T. -0.02 min
 Lab File: BF090966.D
 Acq: 1 Nov 2016 22:16

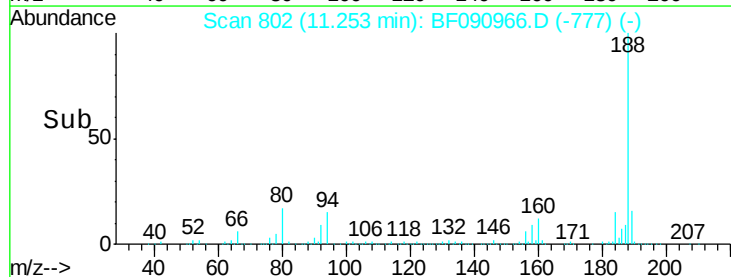
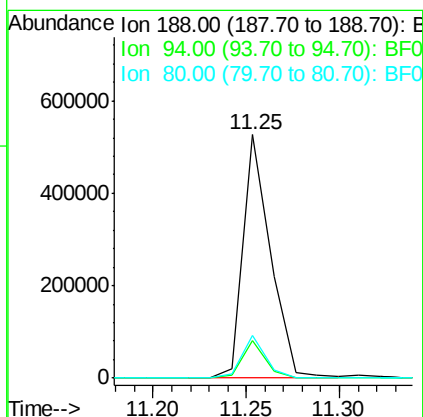
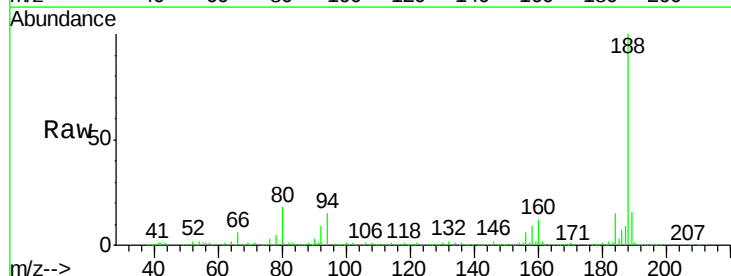
Instrument :
 BNA_F
 ClientSampleId :
 SB-2(0-2)RE

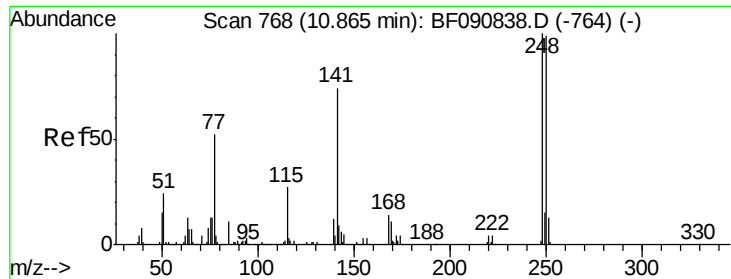
Tgt Ion:166 Resp: 64701
 Ion Ratio Lower Upper
 166 100
 165 101.5 72.6 109.0
 167 17.2 10.6 16.0#



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.25 min Scan# 802
 Delta R.T. -0.01 min
 Lab File: BF090966.D
 Acq: 1 Nov 2016 22:16

Tgt Ion:188 Resp: 541239
 Ion Ratio Lower Upper
 188 100
 94 15.2 11.1 16.7
 80 17.5 11.0 16.4#

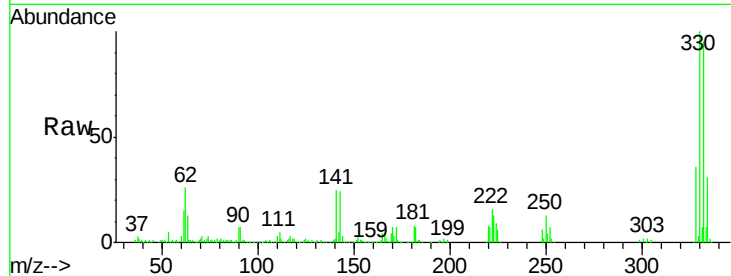




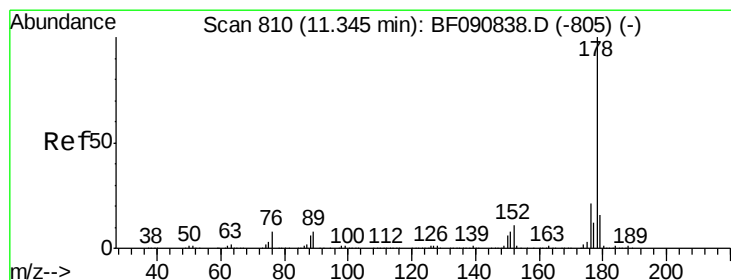
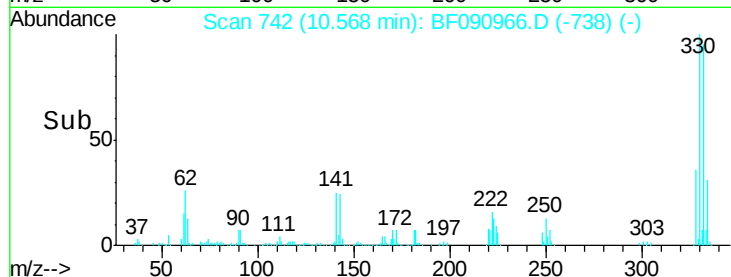
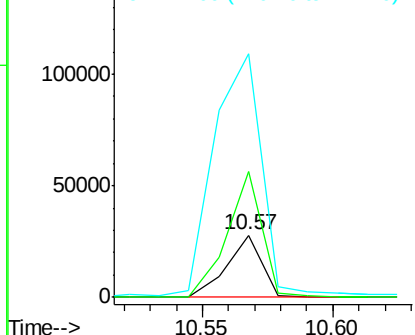
#66
 4-Bromophenyl-phenylether
 Concen: 4.39 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.25 min
 Lab File: BF090966.D
 Acq: 1 Nov 2016 22:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-2(0-2)RE

Tgt Ion:248 Resp: 26015
 Ion Ratio Lower Upper
 248 100
 250 202.6 78.5 117.7#
 141 393.5 59.0 88.6#

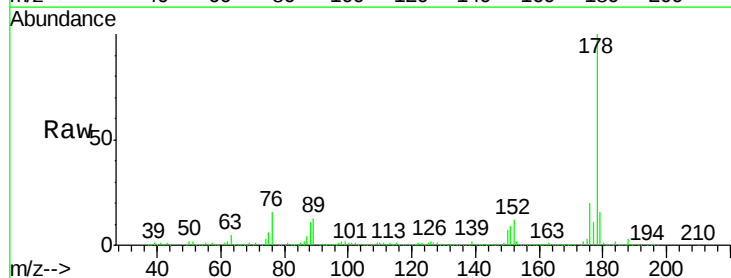


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

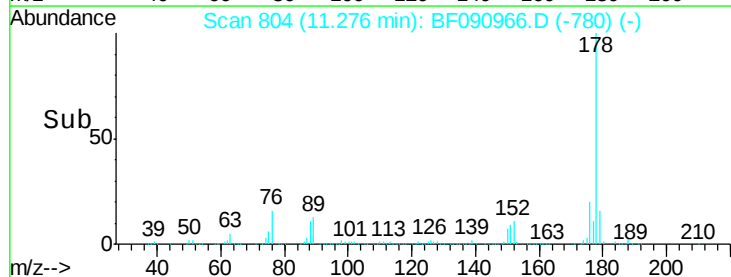
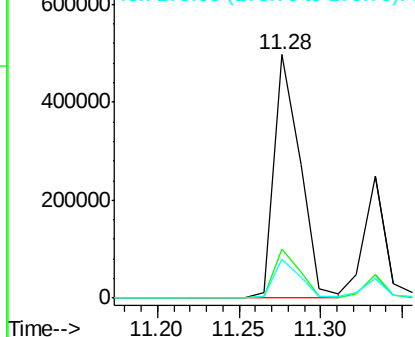


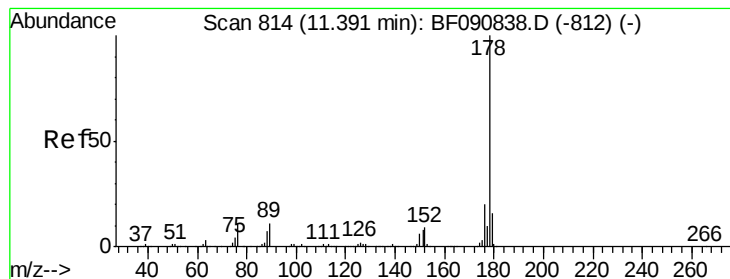
#70
 Phenanthrene
 Concen: 20.05 ng
 RT: 11.28 min Scan# 804
 Delta R.T. -0.02 min
 Lab File: BF090966.D
 Acq: 1 Nov 2016 22:16

Tgt Ion:178 Resp: 552660
 Ion Ratio Lower Upper
 178 100
 176 20.0 13.8 20.8
 179 16.0 12.2 18.2



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





#71

Anthracene

Concen: 8.65 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

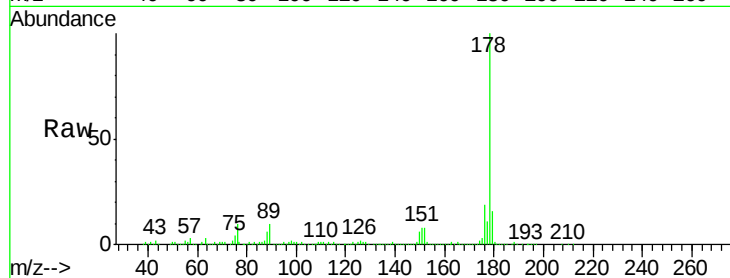
Tgt Ion:178 Resp: 251105

Ion Ratio Lower Upper

178 100

176 19.2 14.1 21.1

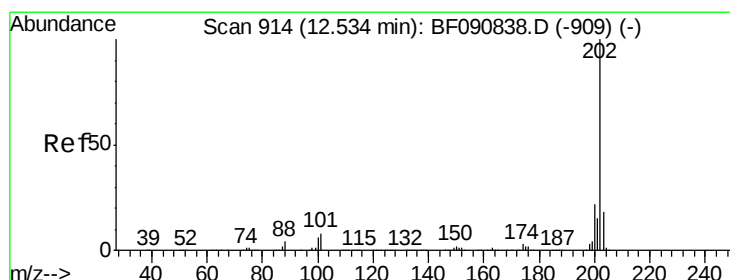
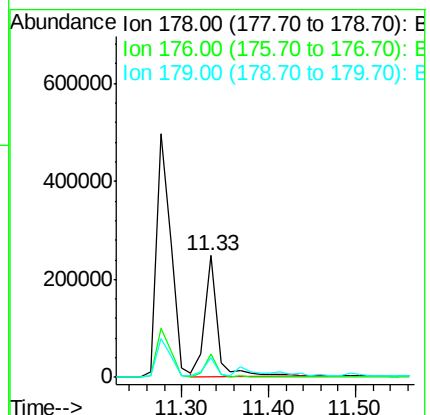
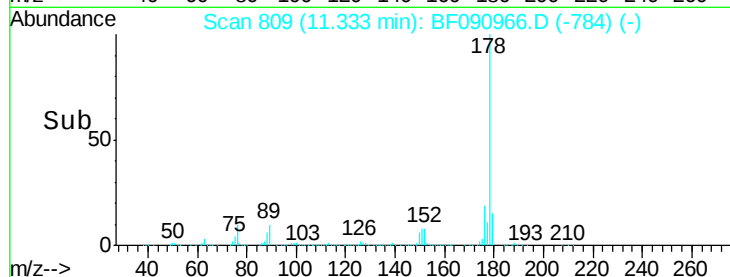
179 15.6 12.2 18.2



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



#74

Fluoranthene

Concen: 45.84 ng

RT: 12.46 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

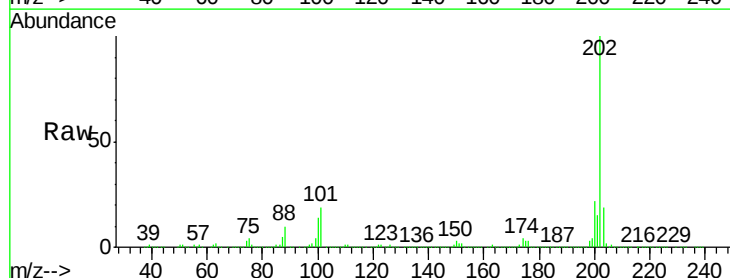
Tgt Ion:202 Resp: 1383681

Ion Ratio Lower Upper

202 100

101 18.7 0.0 38.3

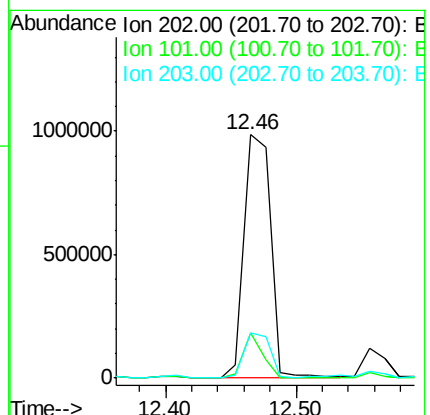
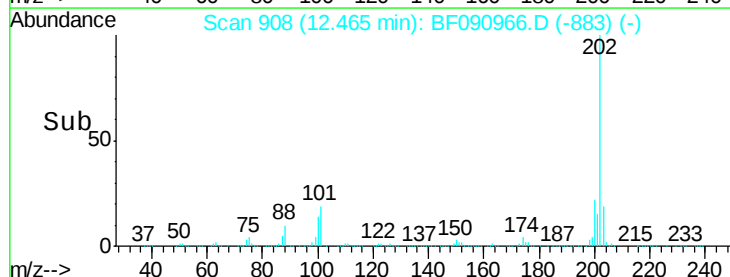
203 18.7 0.0 37.3

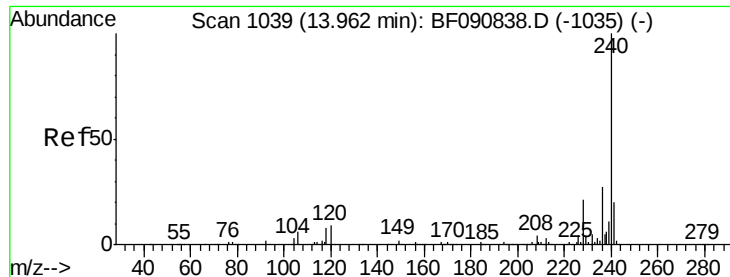


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.89 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

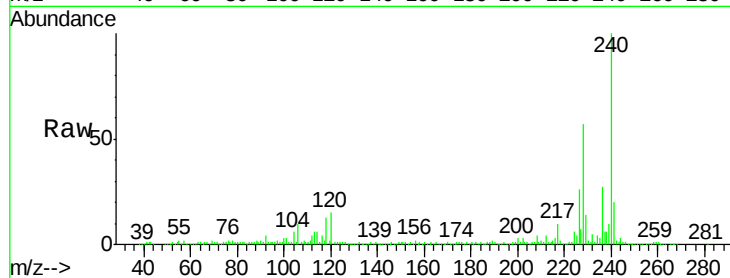
Tgt Ion:240 Resp: 374795

Ion Ratio Lower Upper

240 100

120 14.9 16.2 24.2#

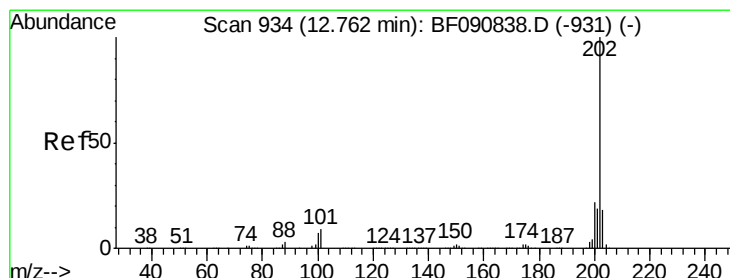
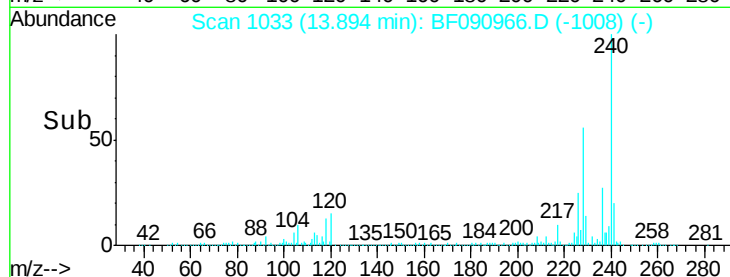
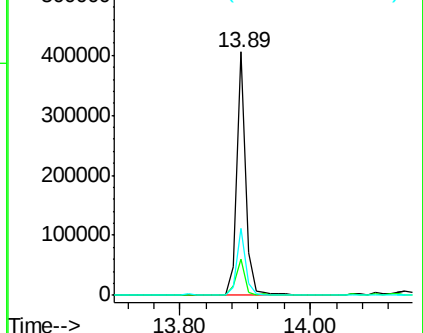
236 27.4 18.4 27.6



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: 58.34 ng

RT: 12.46 min Scan# 908

Delta R.T. -0.24 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

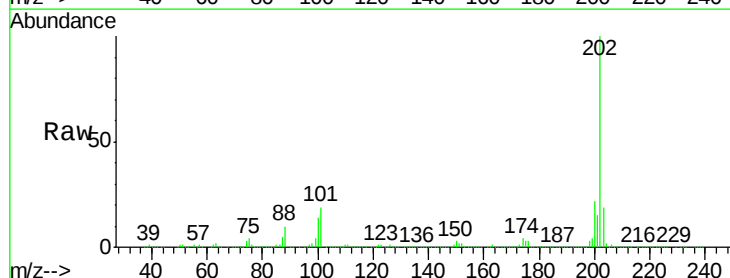
Tgt Ion:202 Resp: 1383681

Ion Ratio Lower Upper

202 100

200 22.0 15.0 22.4

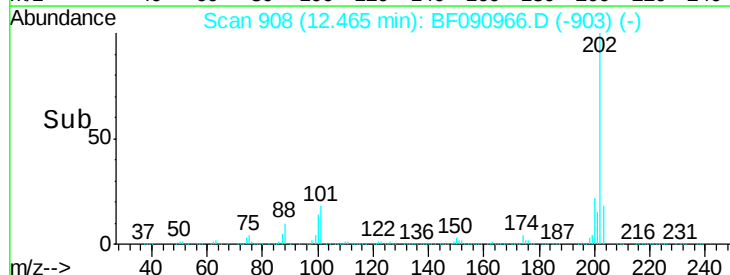
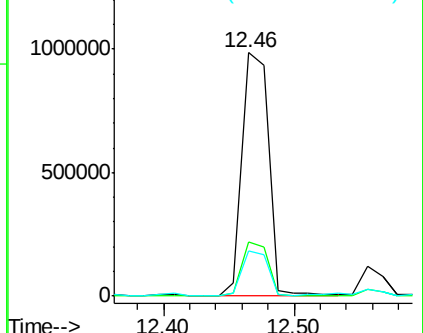
203 18.7 14.1 21.1

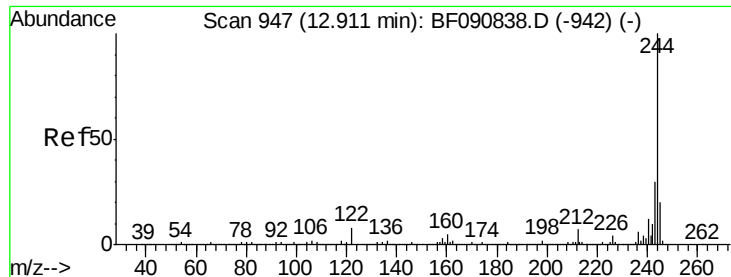


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 107.70 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

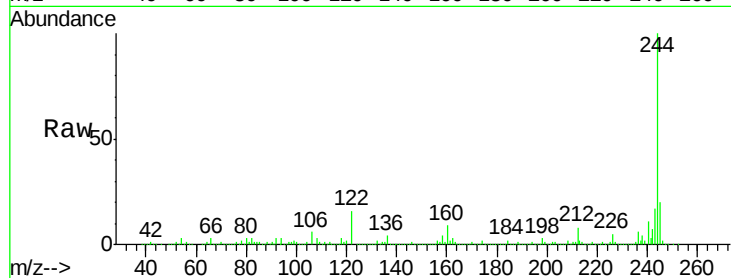
Tgt Ion:244 Resp: 1602205

Ion Ratio Lower Upper

244 100

212 7.7 4.3 6.5#

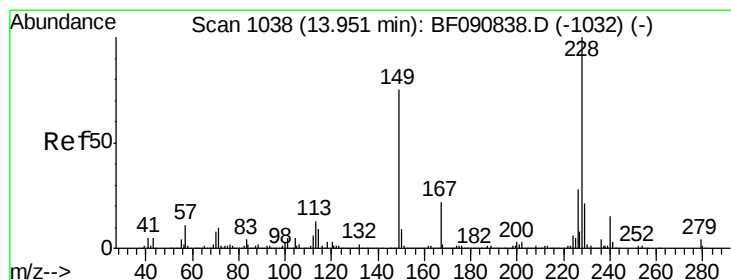
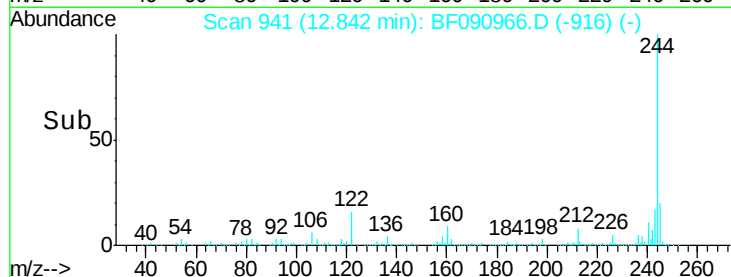
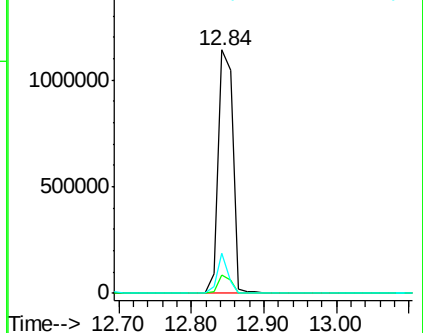
122 16.5 17.4 26.2#



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: 38.75 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

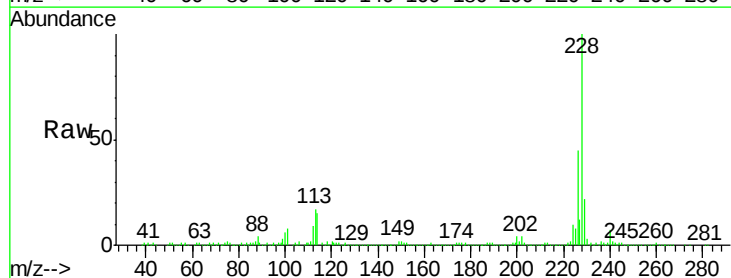
Tgt Ion:228 Resp: 770758

Ion Ratio Lower Upper

228 100

226 44.5 20.0 30.0#

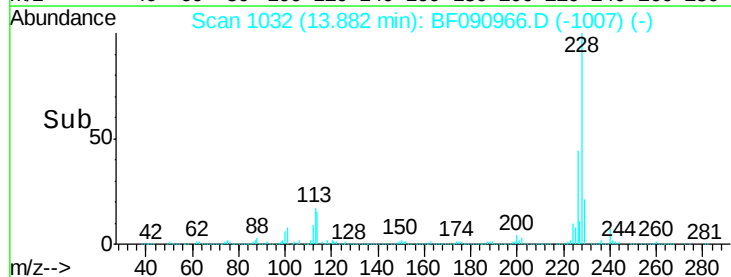
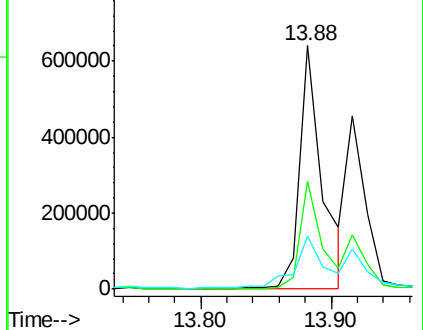
229 21.9 15.4 23.2

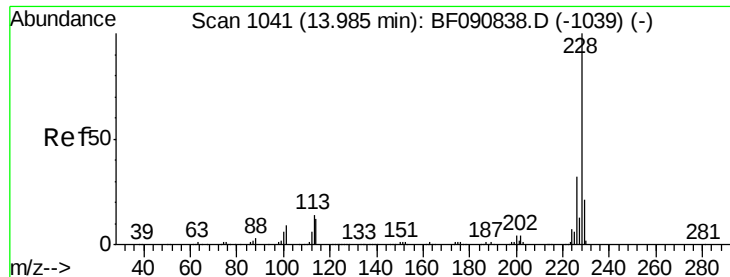


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 38.31 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.05 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

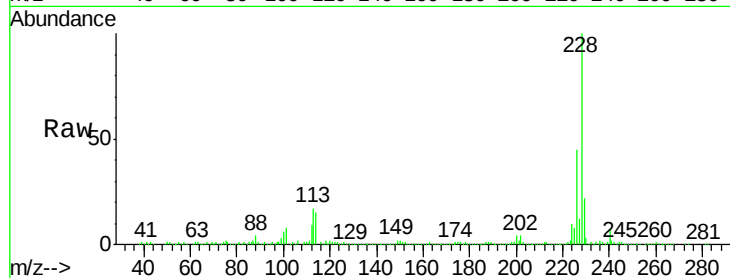
Tgt Ion:228 Resp: 770758

Ion Ratio Lower Upper

228 100

226 44.5 21.0 31.4#

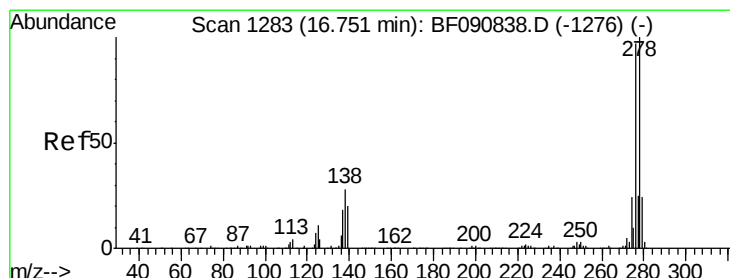
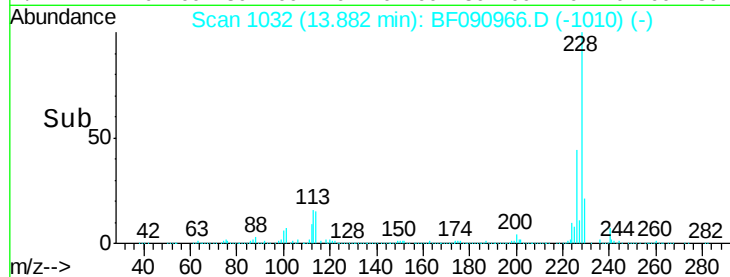
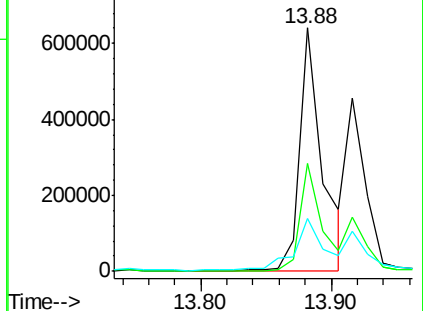
229 21.9 15.6 23.4



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: 4.03 ng

RT: 16.48 min Scan# 1259

Delta R.T. -0.16 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

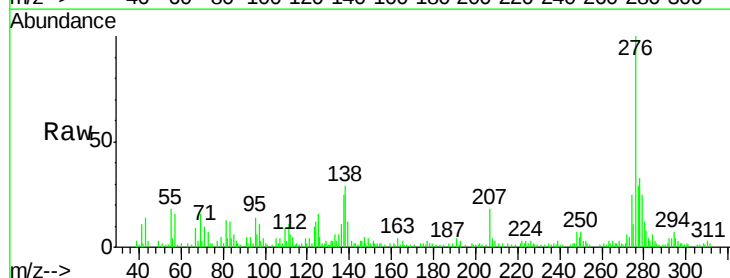
Tgt Ion:276 Resp: 71798

Ion Ratio Lower Upper

276 100

138 26.6 25.7 38.5

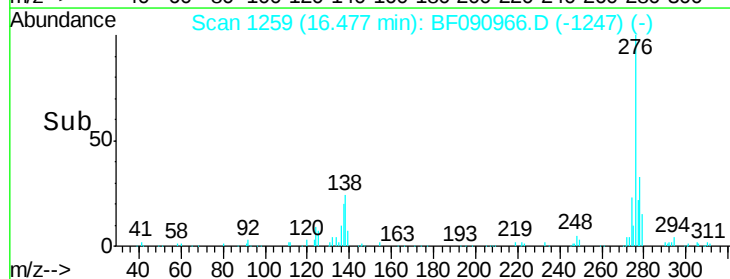
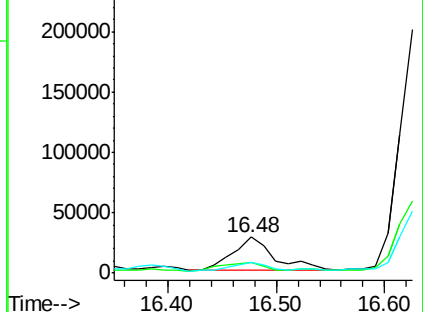
277 20.9 15.6 23.4

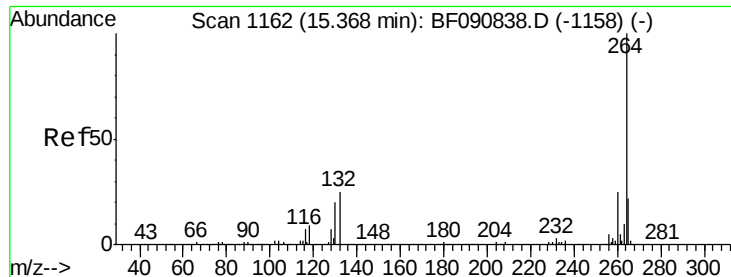


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



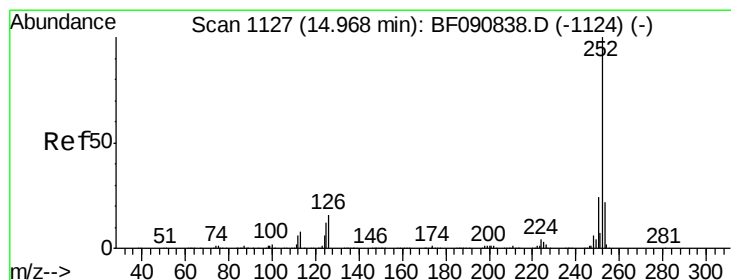
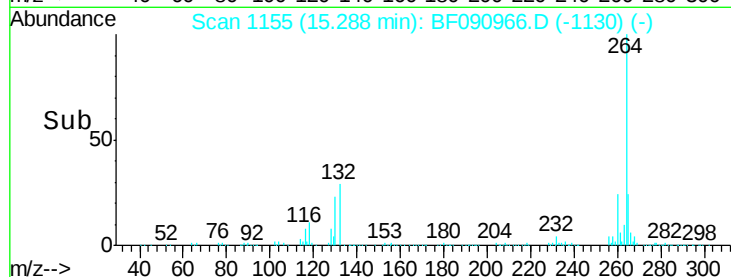
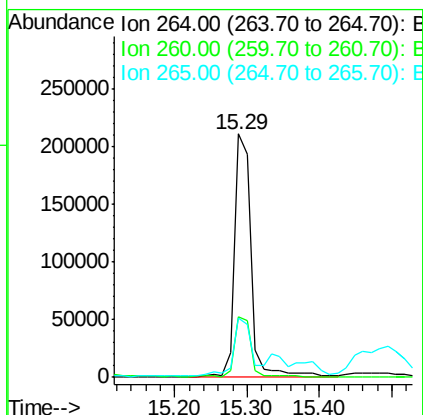
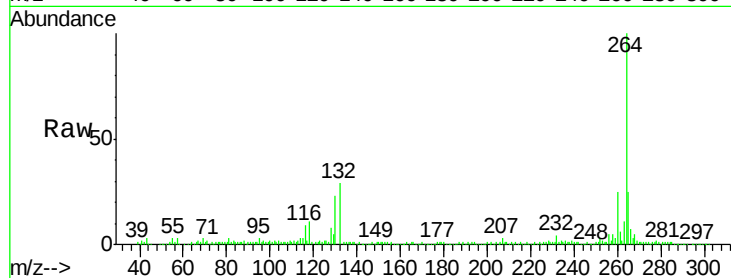


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.29 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BF090966.D
Acq: 1 Nov 2016 22:16

Instrument :
BNA_F
ClientSampled :
SB-2(0-2)RE

Tgt Ion: 264 Resp: 332678

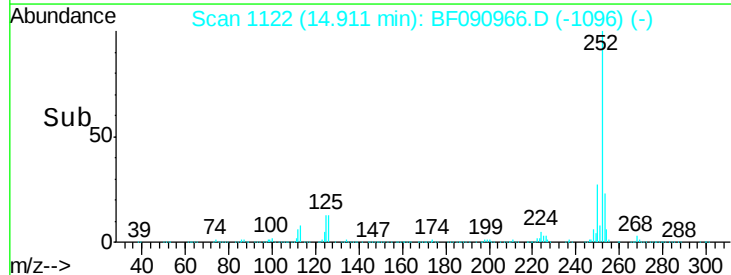
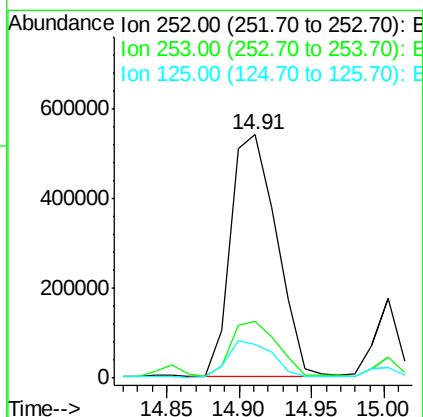
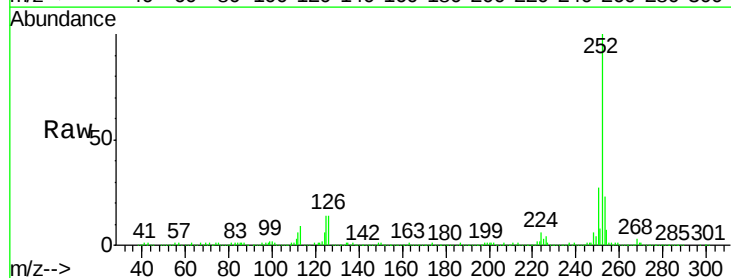
Ion	Ratio	Lower	Upper
264	100		
260	24.8	16.7	25.1
265	24.5	17.2	25.8

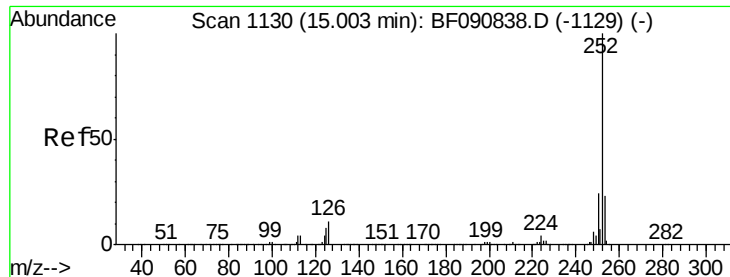


#87
Benzo(b)fluoranthene
Concen: 53.13 ng
RT: 14.91 min Scan# 1122
Delta R.T. -0.00 min
Lab File: BF090966.D
Acq: 1 Nov 2016 22:16

Tgt Ion: 252 Resp: 1188500

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	13.7	17.1	25.7#





#88

Benzo(k)fluoranthene

Concen: 67.23 ng

RT: 14.91 min Scan# 1122

Delta R.T. -0.02 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

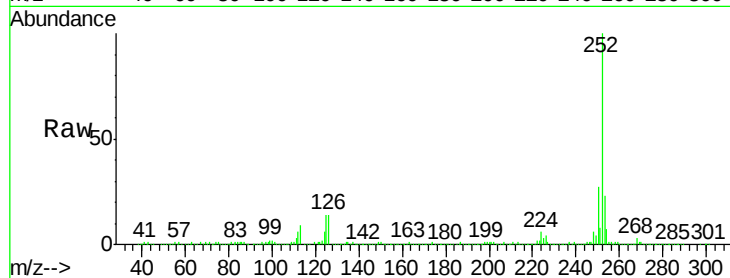
Tgt Ion:252 Resp: 1188500

Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.4

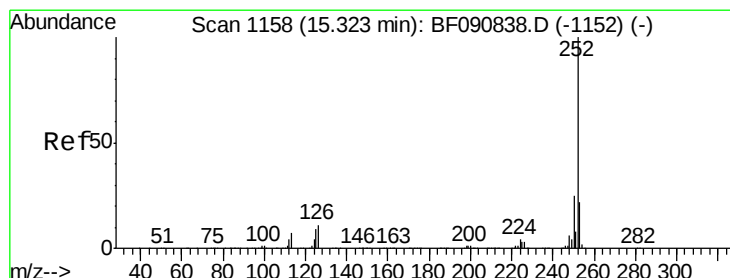
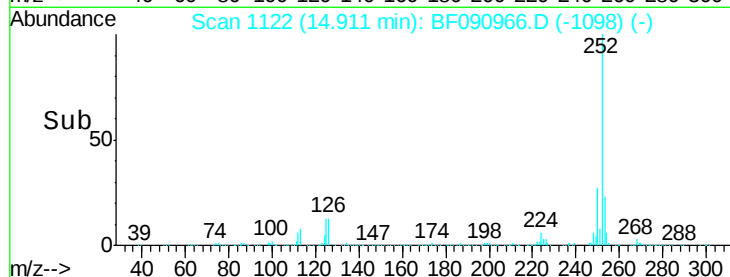
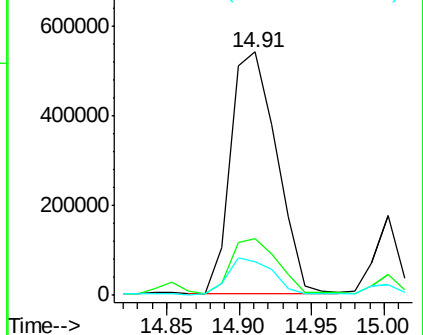
125 13.7 16.0 24.0#



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: 19.75 ng

RT: 15.17 min Scan# 1145

Delta R.T. -0.07 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

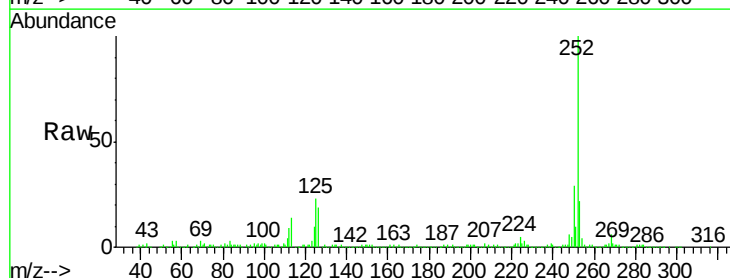
Tgt Ion:252 Resp: 379555

Ion Ratio Lower Upper

252 100

253 22.4 17.2 25.8

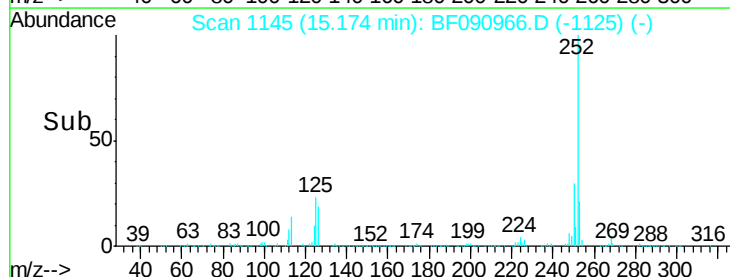
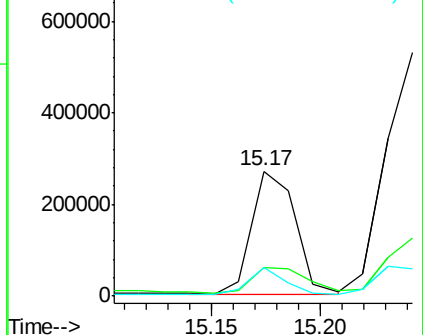
125 23.3 18.0 27.0

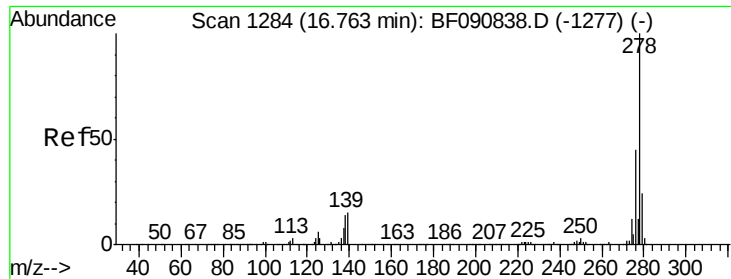


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 6.04 ng

RT: 16.64 min Scan# 1273

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

Instrument :

BNA_F

ClientSampleId :

SB-2(0-2)RE

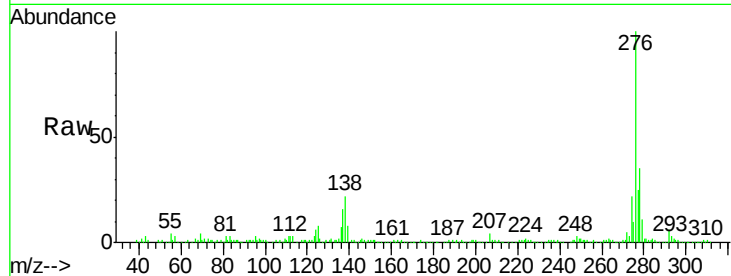
Tgt Ion:278 Resp: 98223

Ion Ratio Lower Upper

278 100

139 21.3 26.3 39.5#

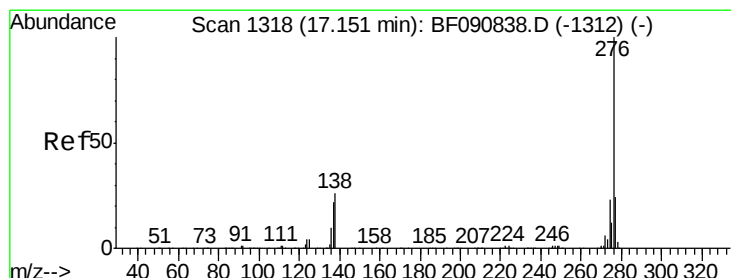
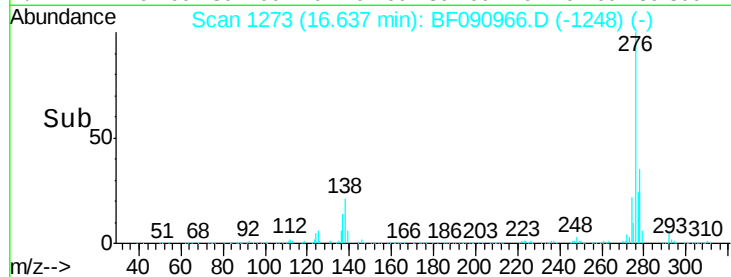
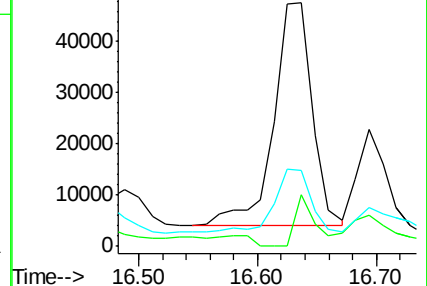
279 31.0 18.2 27.4#



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: 18.72 ng

RT: 17.03 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF090966.D

Acq: 1 Nov 2016 22:16

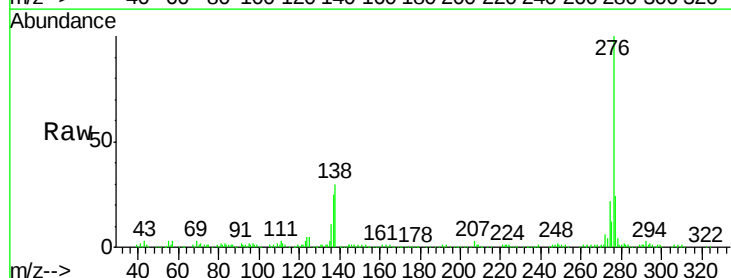
Tgt Ion:276 Resp: 286943

Ion Ratio Lower Upper

276 100

277 24.0 17.8 26.6

138 29.7 34.6 51.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

