

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011515\
 Data File : BF076880.D
 Acq On : 15 Jan 2015 12:46
 Operator : IZ / TP
 Sample : G1030-09DL 125X
 Misc : S
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-3(7-7.5)DL

Quant Time: Jan 16 09:54:59 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 14 23:27:58 2015
 Response via : Initial Calibration

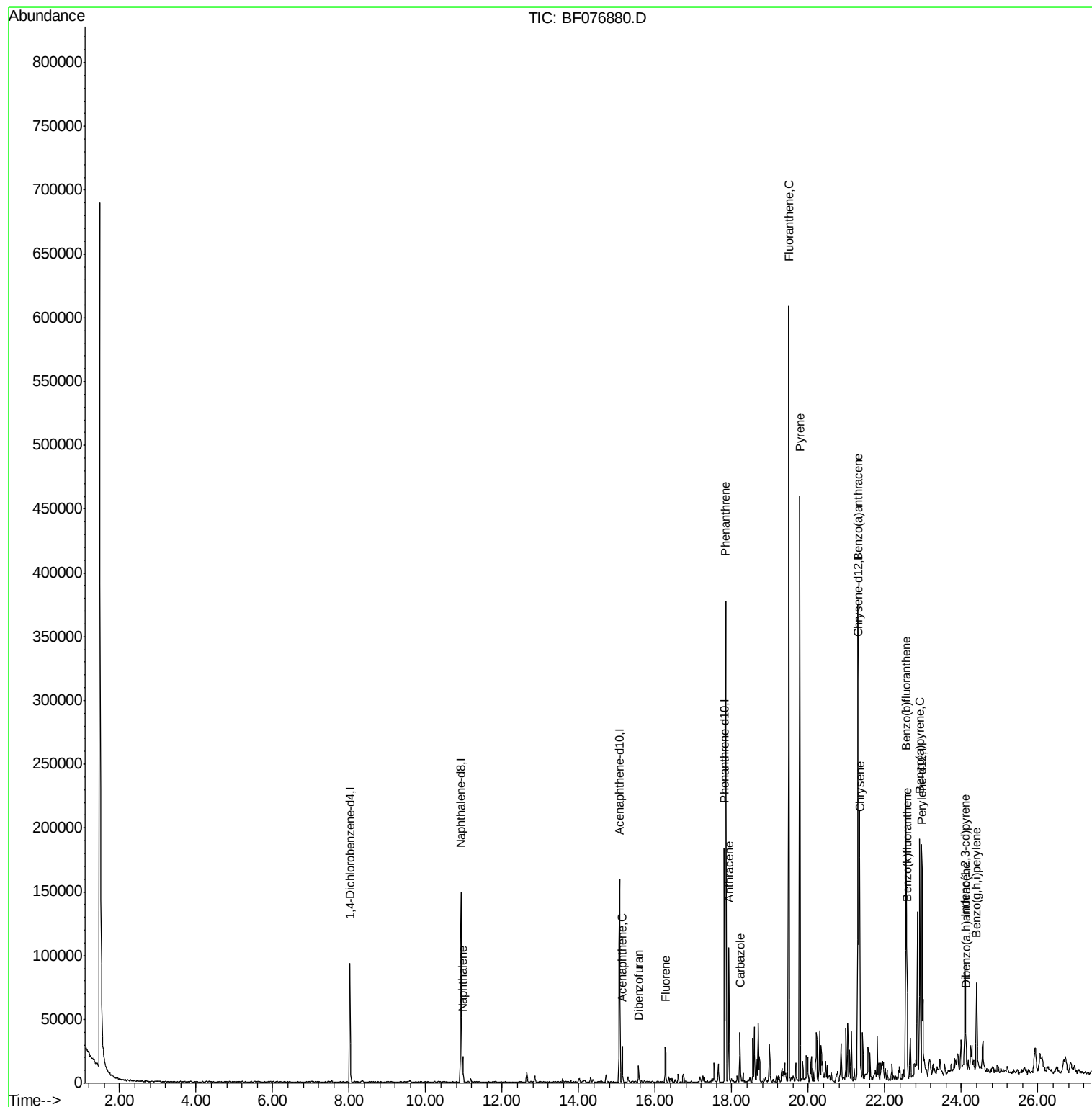
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.02	152	27378	20.00	ng	0.00
21) Naphthalene-d8	10.93	136	116436	20.00	ng	0.00
38) Acenaphthene-d10	15.07	164	61422	20.00	ng	-0.01
63) Phenanthrene-d10	17.81	188	103109	20.00	ng	-0.01
75) Chrysene-d12	21.31	240	104687	20.00	ng	0.00
86) Perylene-d12	22.97	264	101085	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.12	112	268	0.16	ng	0.03
7) Phenol-d6	7.44	99	793	0.38	ng	0.02
23) Nitrobenzene-d5	9.33	82	326	0.16	ng	0.01
41) 2,4,6-Tribromophenol	16.72	330	228	0.46	ng	0.00
44) 2-Fluorobiphenyl	13.58	172	2553	0.63	ng	-0.01
78) Terphenyl-d14	20.03	244	2194	0.48	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.97	128	15943	2.66	ng	99
51) Acenaphthene	15.13	154	12602	3.51	ng	92
54) Dibenzofuran	15.57	168	12450	2.38	ng	96
57) Fluorene	16.27	166	14994	3.39	ng	# 98
70) Phenanthrene	17.84	178	206071	32.05	ng	99
71) Anthracene	17.92	178	52173	8.32	ng	96
72) Carbazole	18.21	167	22765	3.74	ng	96
74) Fluoranthene	19.49	202	289654	43.96	ng	98
77) Pyrene	19.77	202	223963	31.22	ng	# 92
80) Benzo(a)anthracene	21.29	228	135575	20.64	ng	100
82) Chrysene	21.34	228	92505m	15.44	ng	
85) Indeno(1,2,3-cd)pyrene	24.09	276	55008m	8.67	ng	
87) Benzo(b)fluoranthene	22.55	252	147117m	21.61	ng	
88) Benzo(k)fluoranthene	22.57	252	23284m	3.91	ng	
89) Benzo(a)pyrene	22.91	252	83056	13.83	ng	# 95
90) Dibenzo(a,h)anthracene	24.12	278	12119m	2.20	ng	
91) Benzo(a,h,i)perylene	24.39	276	46254	8.44	ng	# 90

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

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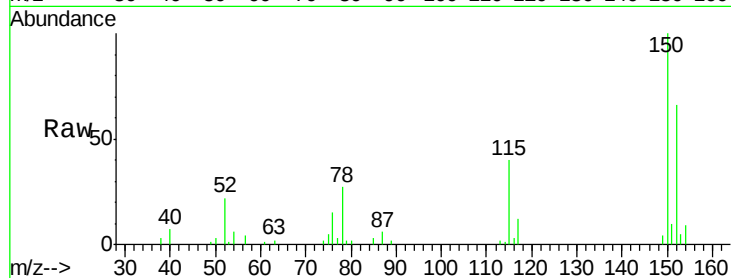


#1

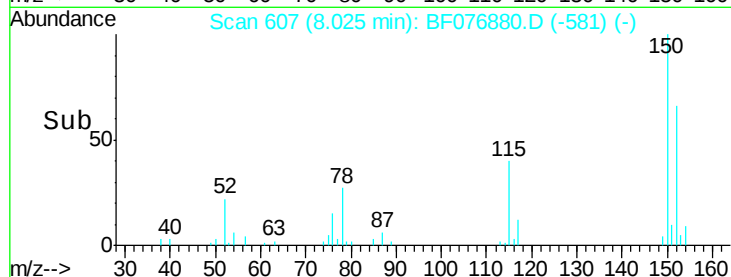
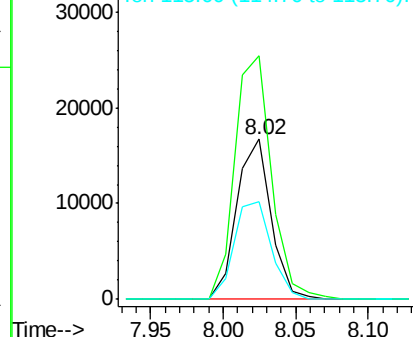
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.02 min Scan# 607
Delta R.T. 0.00 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)DL

Tot Ion:152 Resp: 27378
Ion Ratio Lower Upper
152 100
150 152.1 121.7 182.5
115 61.0 47.0 70.6



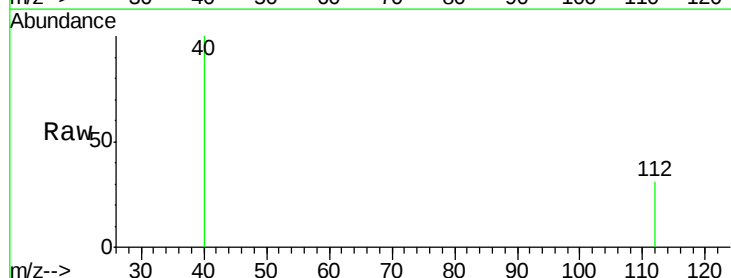
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



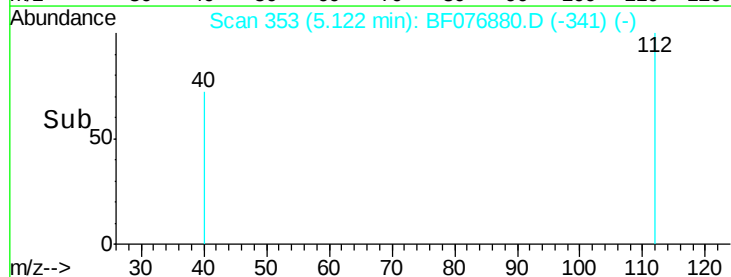
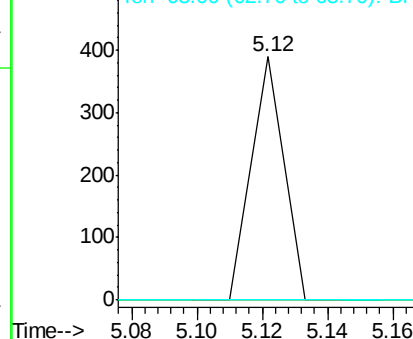
#5

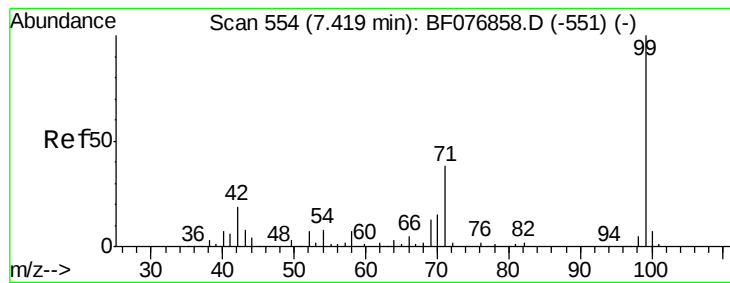
2-Fluorophenol
Concen: 0.16 ng
RT: 5.12 min Scan# 353
Delta R.T. 0.03 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Tgt Ion:112 Resp: 268
Ion Ratio Lower Upper
112 100
64 0.0 54.2 81.4#
63 0.0 28.4 42.6#



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: 0.38 ng

RT: 7.44 min Scan# 556

Delta R.T. 0.02 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)DL

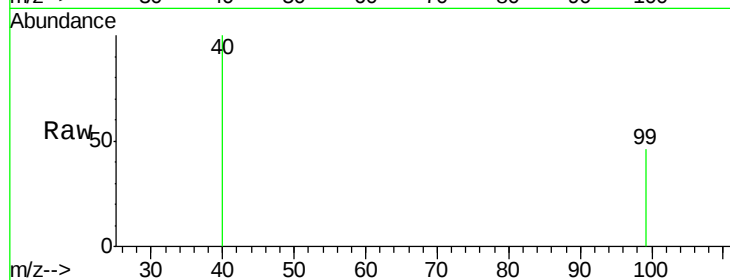
Tot Ion: 99 Resp: 793

Ion Ratio Lower Upper

99 100

42 0.0 15.0 22.4#

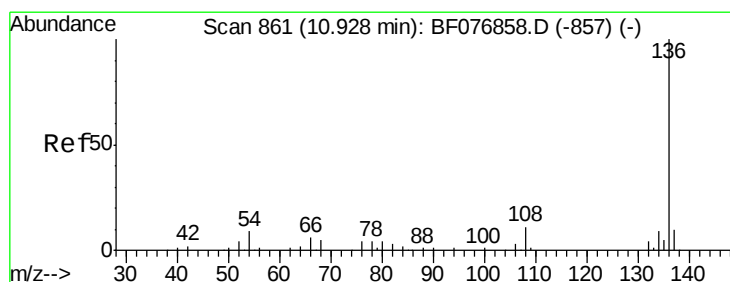
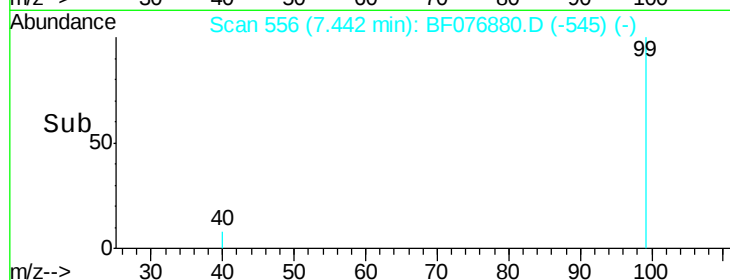
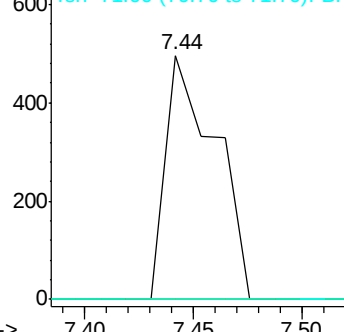
71 0.0 30.5 45.7#



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.93 min Scan# 861

Delta R.T. 0.00 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

Tgt Ion: 136 Resp: 116436

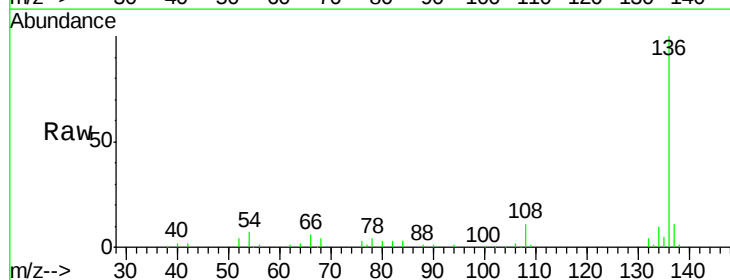
Ion Ratio Lower Upper

136 100

137 10.8 8.1 12.1

54 7.2 7.0 10.4

68 3.6 3.7 5.5#

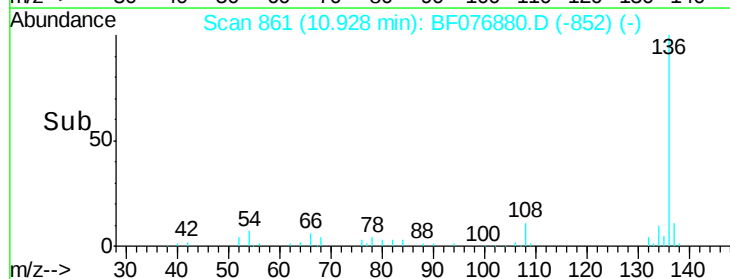
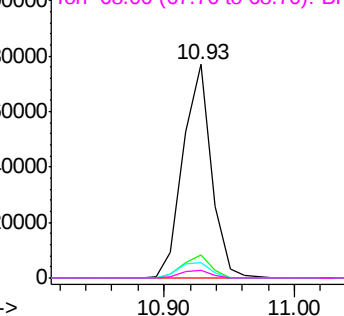


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.16 ng

RT: 9.33 min Scan# 721

Delta R.T. 0.01 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)DL

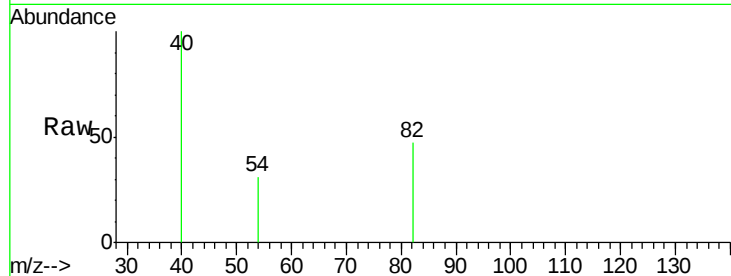
Tot Ion: 82 Resp: 326

Ion Ratio Lower Upper

82 100

128 0.0 33.1 49.7#

54 65.7 48.3 72.5



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

9.33

400

300

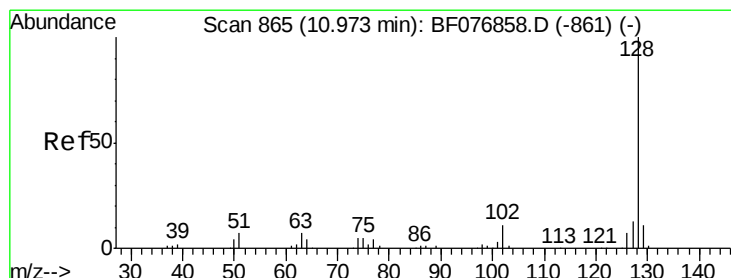
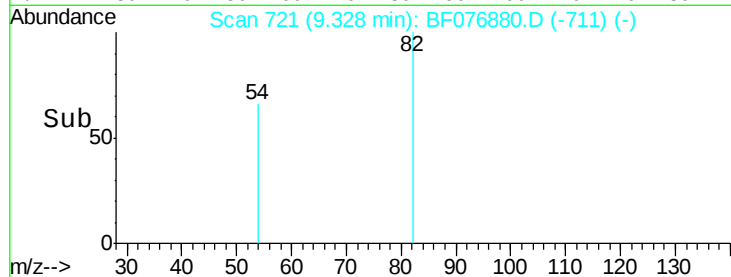
200

100

0

9.30 9.32 9.34 9.36

Time-->



#31

Naphthalene

Concen: 2.66 ng

RT: 10.97 min Scan# 865

Delta R.T. 0.00 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

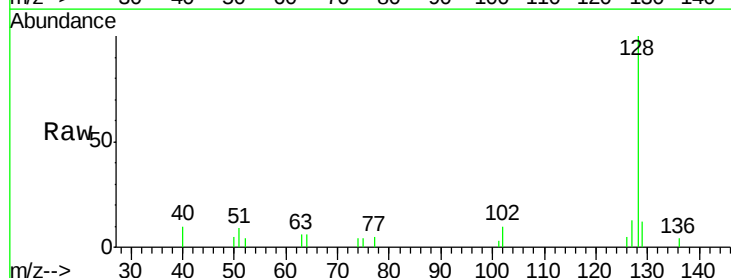
Tgt Ion:128 Resp: 15943

Ion Ratio Lower Upper

128 100

129 11.8 9.0 13.6

127 12.9 10.2 15.2



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

10.97

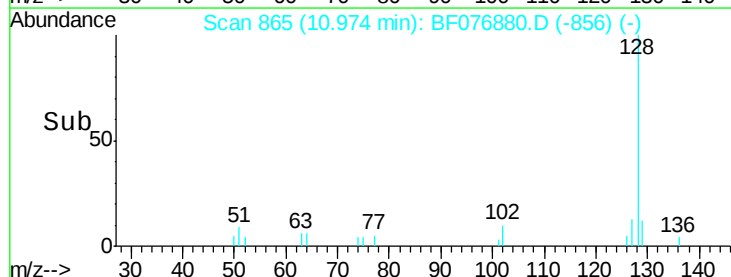
10000

5000

0

10.90 10.95 11.00

Time-->





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.07 min Scan# 1223

Delta R.T. -0.01 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)DL

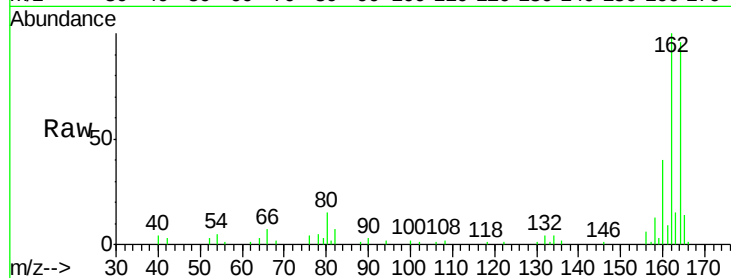
Tot Ion:164 Resp: 61422

Ion Ratio Lower Upper

164 100

162 104.0 82.4 123.6

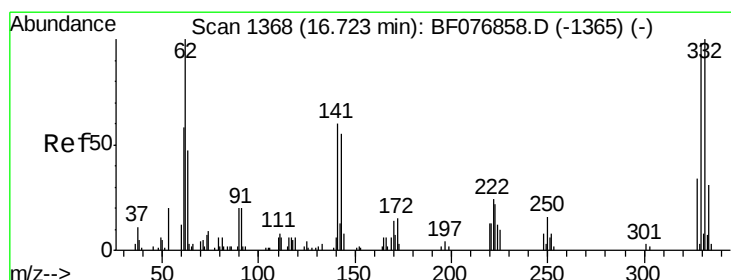
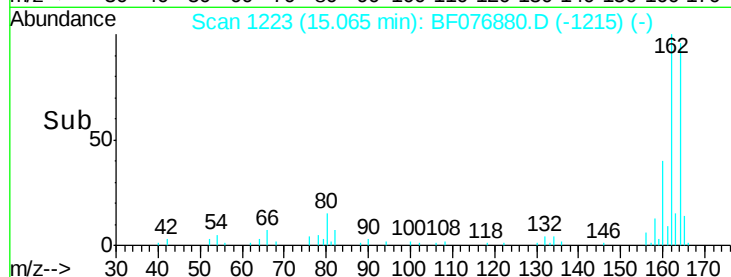
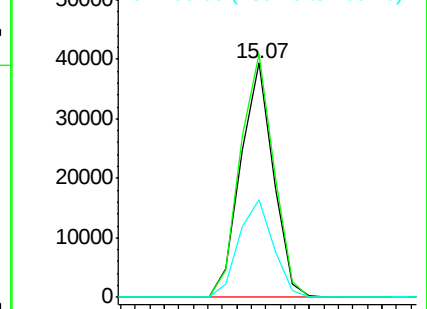
160 41.6 34.8 52.2



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: 0.46 ng

RT: 16.72 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

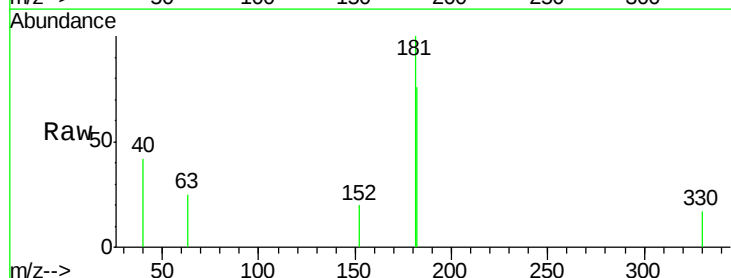
Tgt Ion:330 Resp: 228

Ion Ratio Lower Upper

330 100

332 0.0 77.8 116.6#

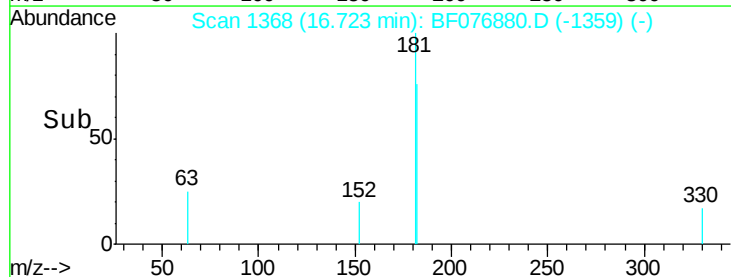
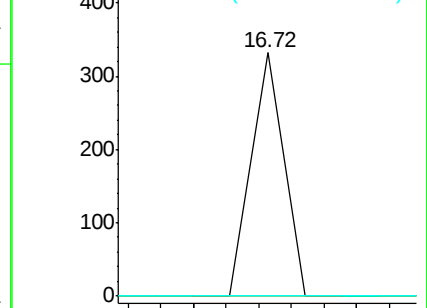
141 0.0 38.5 57.7#

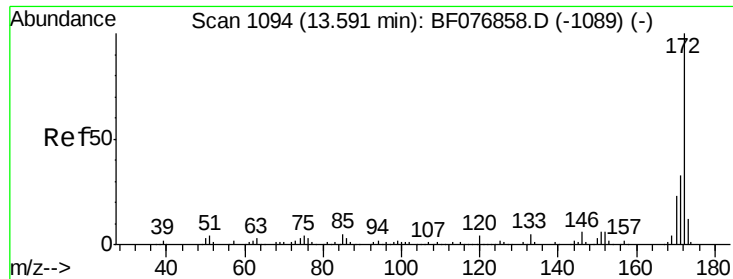


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

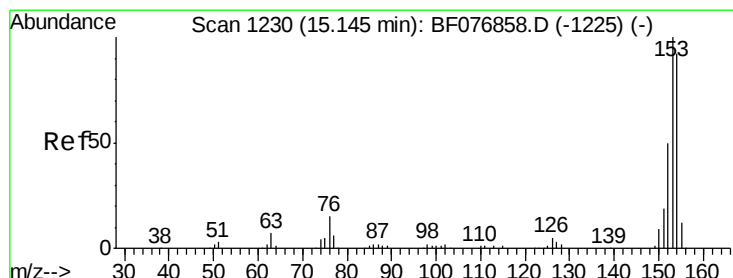
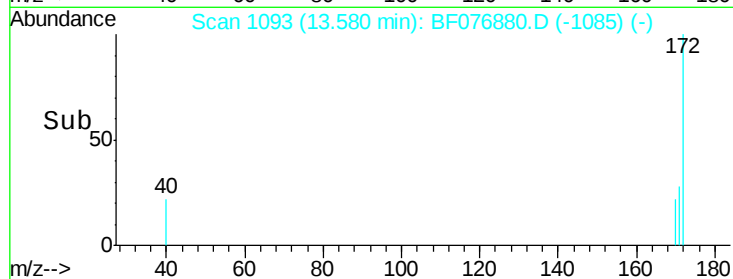
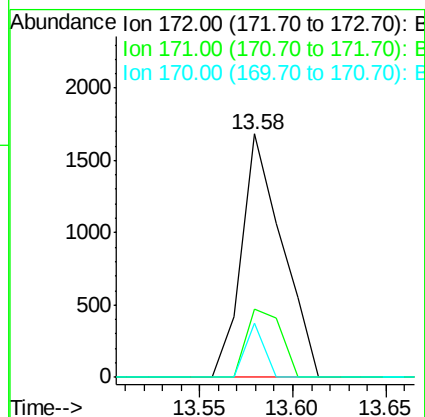
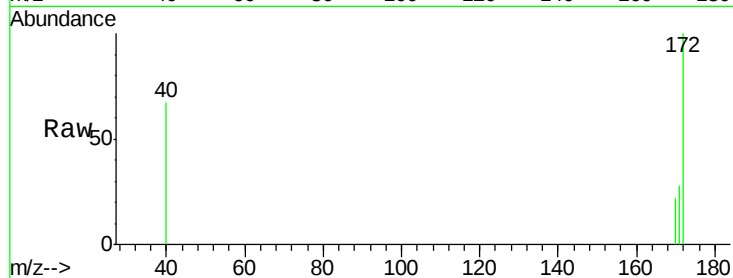




#44
2-Fluorobiphenyl
Concen: 0.63 ng
RT: 13.58 min Scan# 1093
Delta R.T. -0.01 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

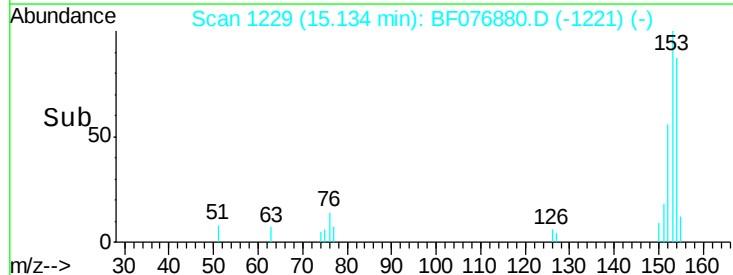
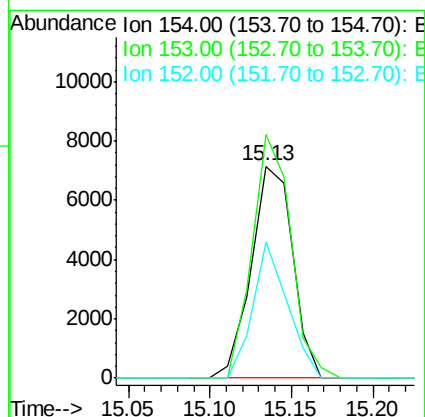
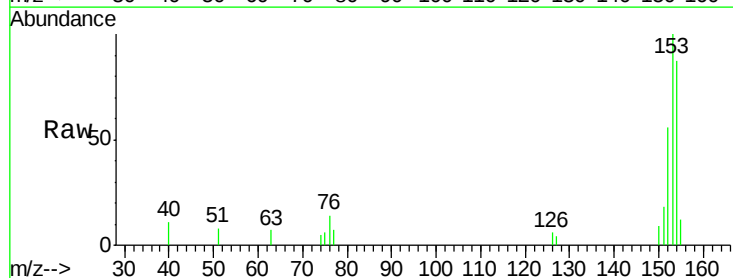
Instrument :
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TP3-SS-3(7-7.5)DL

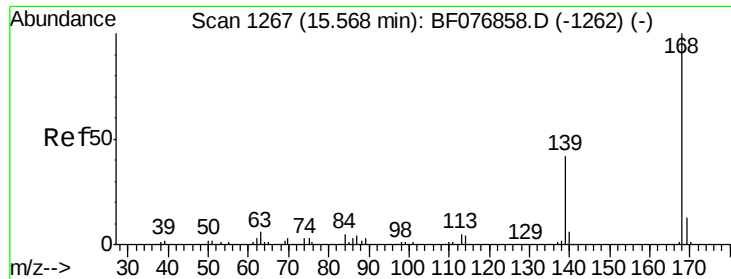
Tot Ion:172 Resp: 2553
Ion Ratio Lower Upper
172 100
171 27.9 26.6 40.0
170 22.1 18.0 27.0



#51
Acenaphthene
Concen: 3.51 ng
RT: 15.13 min Scan# 1229
Delta R.T. -0.01 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Tgt Ion:154 Resp: 12602
Ion Ratio Lower Upper
154 100
153 114.9 87.0 130.6
152 64.1 43.5 65.3

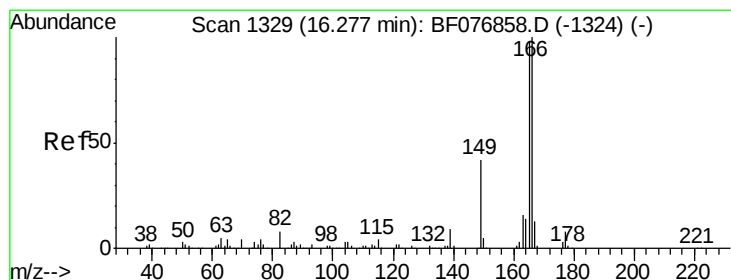
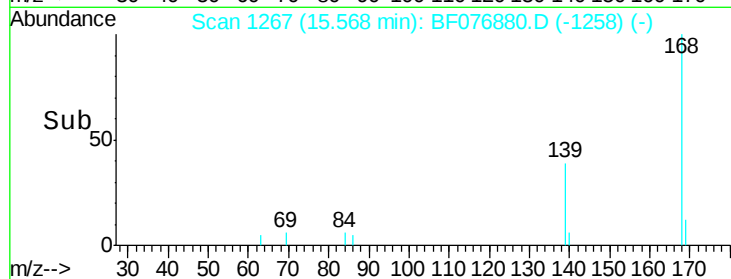
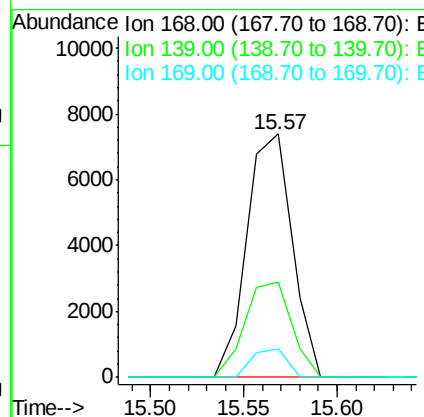
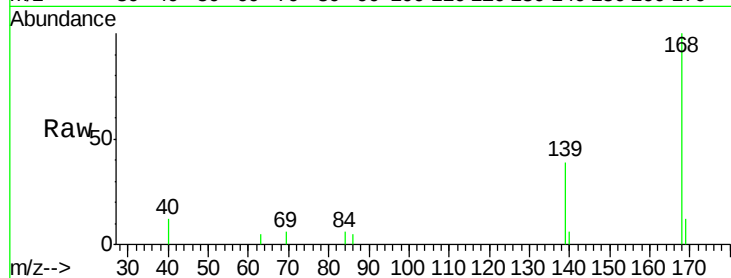




#54
Dibenzenofuran
Concen: 2.38 ng
RT: 15.57 min Scan# 1267
Delta R.T. 0.00 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

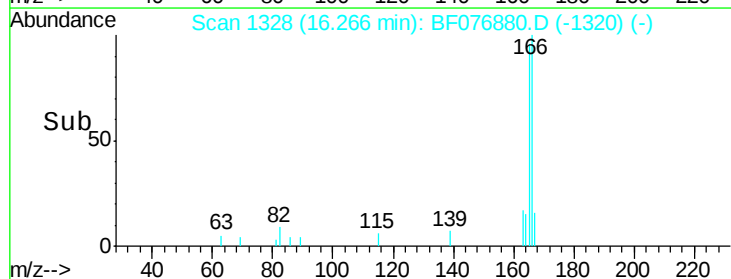
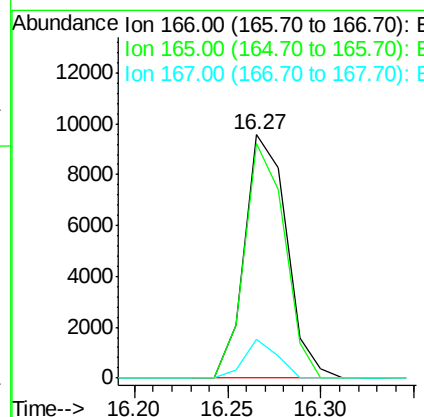
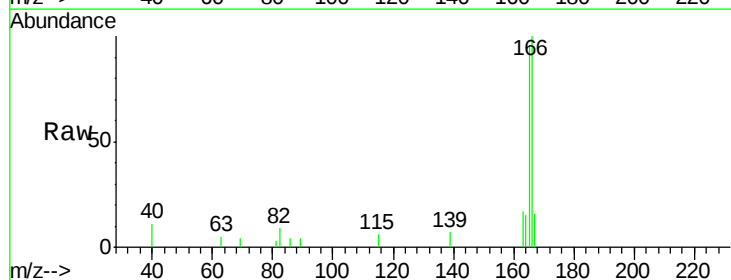
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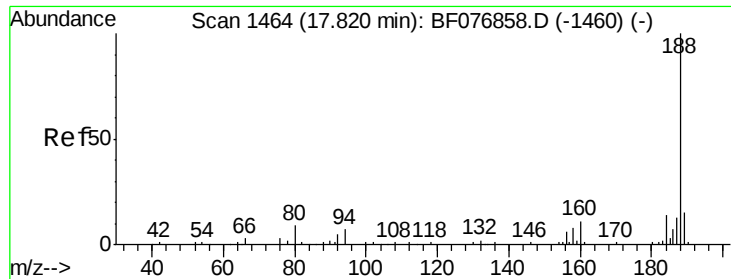
Tot Ion:168 Resp: 12450
Ion Ratio Lower Upper
168 100
139 38.8 33.4 50.2
169 11.9 10.6 15.8



#57
Fluorene
Concen: 3.39 ng
RT: 16.27 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Tgt Ion:166 Resp: 14994
Ion Ratio Lower Upper
166 100
165 96.3 78.5 117.7
167 15.9 10.4 15.6#

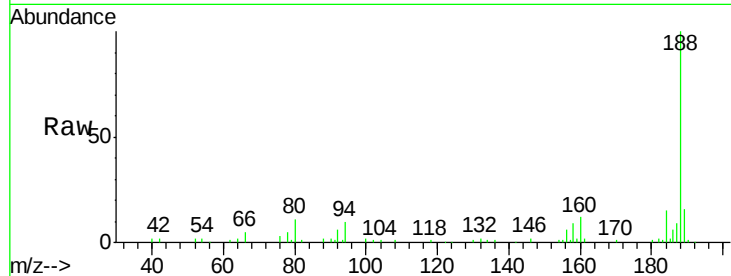




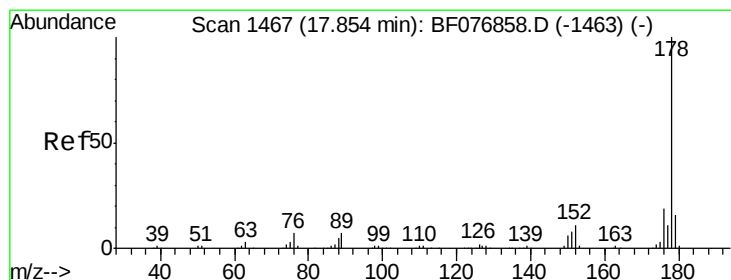
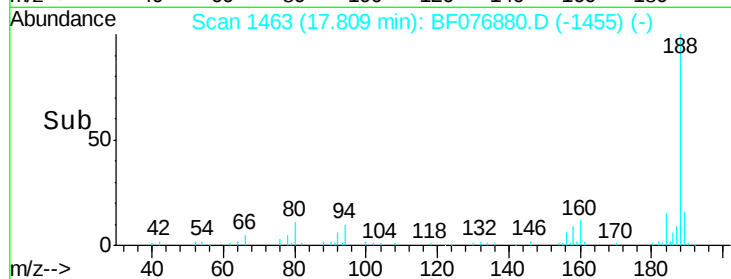
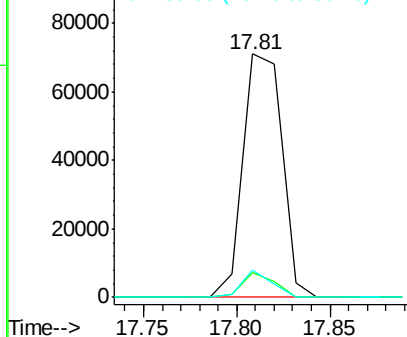
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.81 min Scan# 1463
Delta R.T. -0.01 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)DL

Tot Ion:188 Resp: 103109
Ion Ratio Lower Upper
188 100
94 10.0 6.0 9.0#
80 11.0 6.9 10.3#

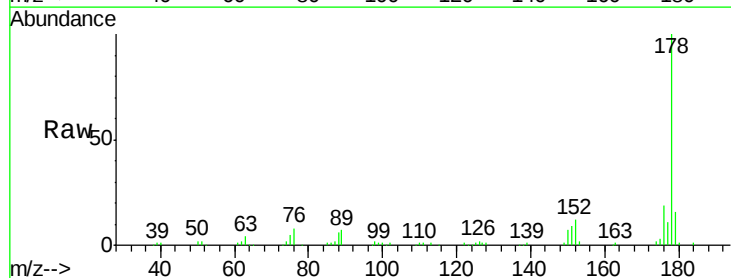


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

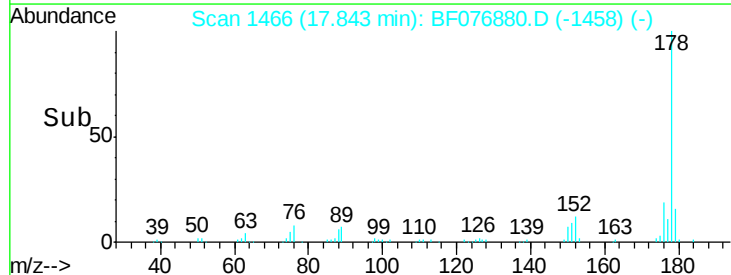
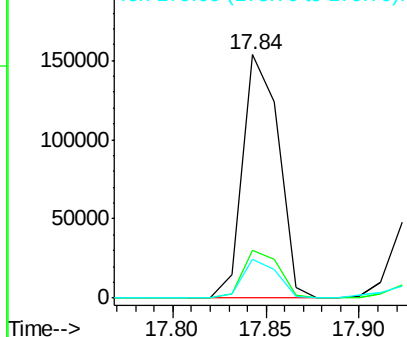


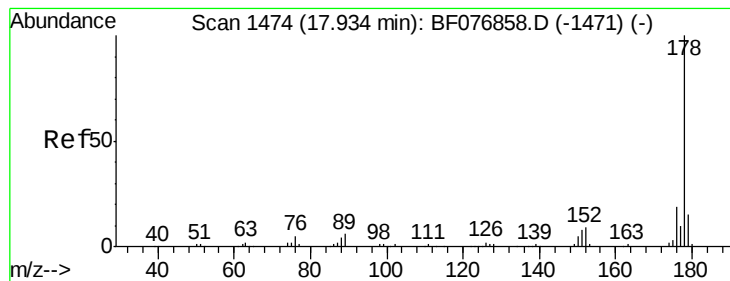
#70
Phenanthrene
Concen: 32.05 ng
RT: 17.84 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Tgt Ion:178 Resp: 206071
Ion Ratio Lower Upper
178 100
176 19.4 15.1 22.7
179 15.8 12.7 19.1



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: 8.32 ng

RT: 17.92 min Scan# 1473

Delta R.T. -0.01 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)DL

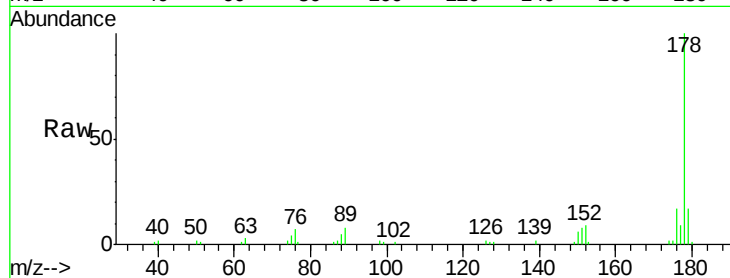
Tot Ion:178 Resp: 52173

Ion Ratio Lower Upper

178 100

176 17.3 15.4 23.0

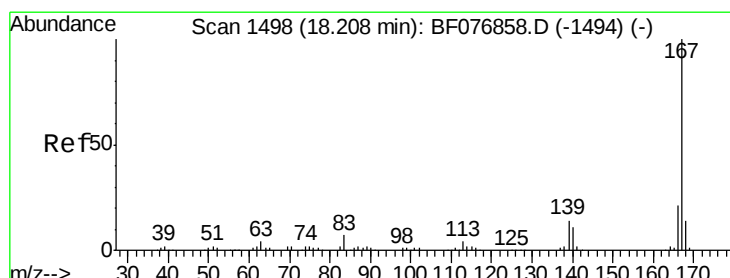
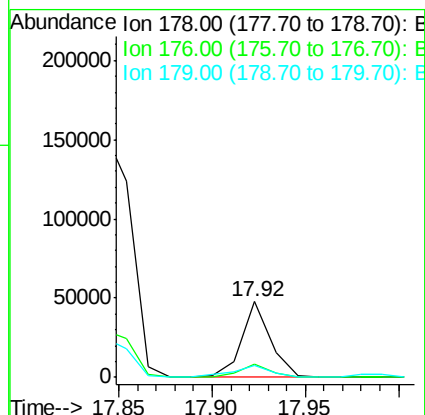
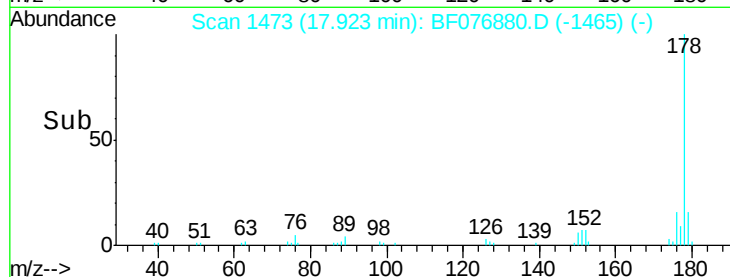
179 16.5 11.9 17.9



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: 3.74 ng

RT: 18.21 min Scan# 1498

Delta R.T. 0.00 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

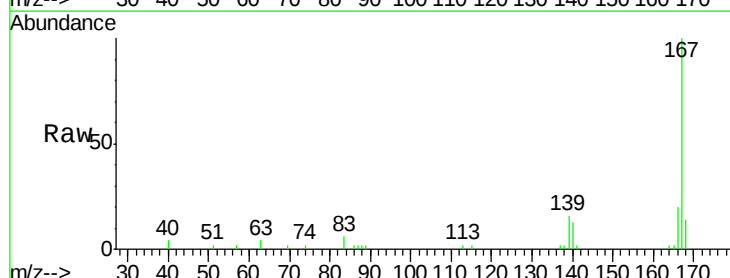
Tgt Ion:167 Resp: 22765

Ion Ratio Lower Upper

167 100

166 19.5 17.0 25.6

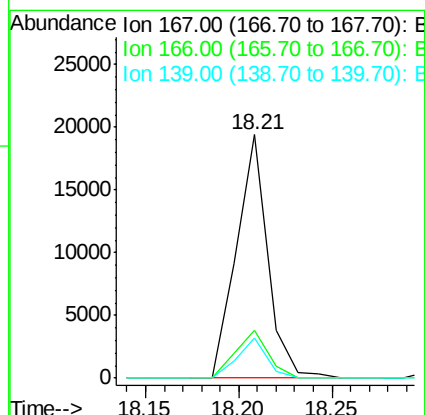
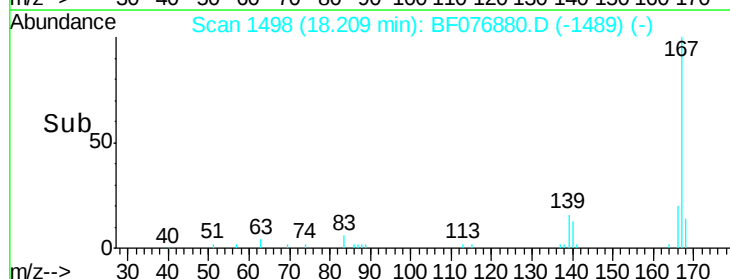
139 16.4 11.3 16.9

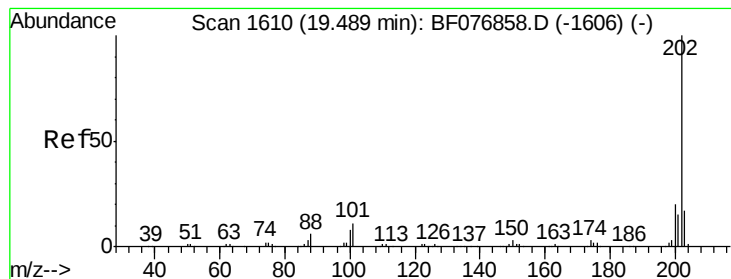


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 43.96 ng

RT: 19.49 min Scan# 1610

Delta R.T. 0.00 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)DL

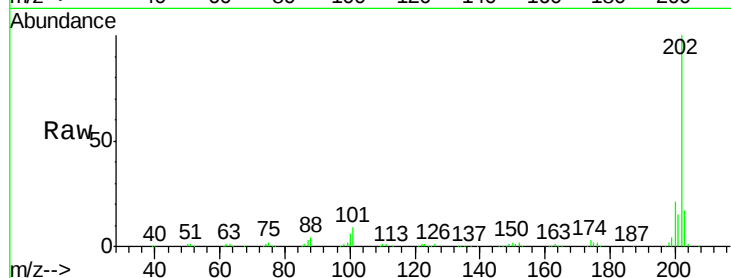
Tot Ion:202 Resp: 289654

Ion Ratio Lower Upper

202 100

101 8.7 0.0 30.7

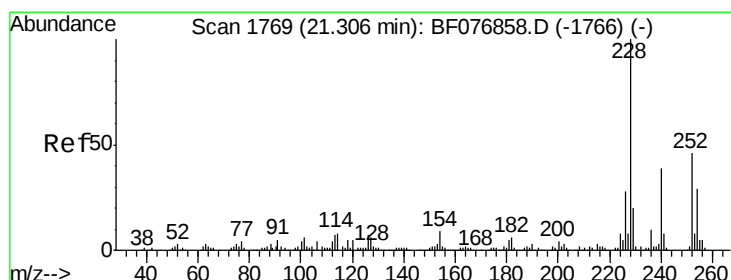
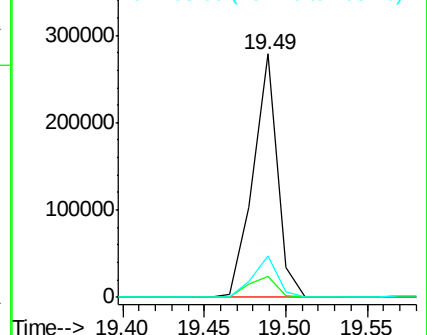
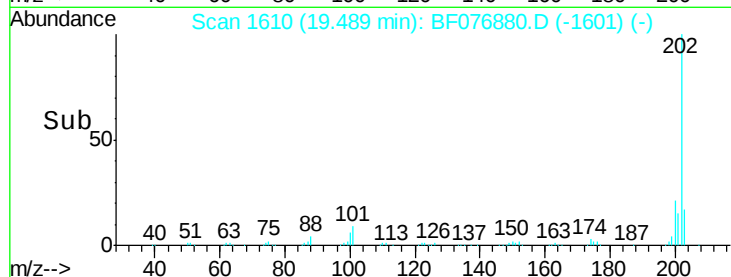
203 17.0 0.0 36.9



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: 21.31 min Scan# 1769

Delta R.T. 0.00 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

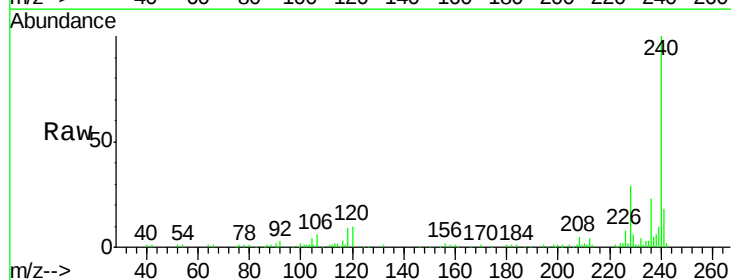
Tgt Ion:240 Resp: 104687

Ion Ratio Lower Upper

240 100

120 9.7 10.4 15.6#

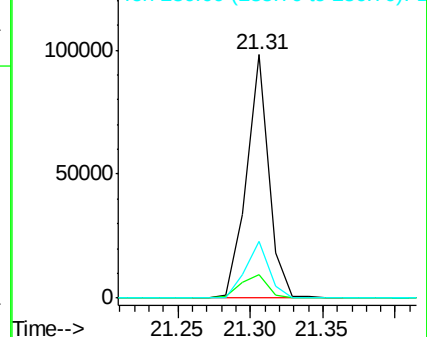
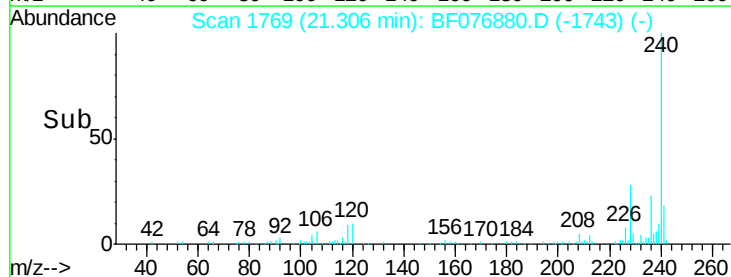
236 23.3 20.2 30.2

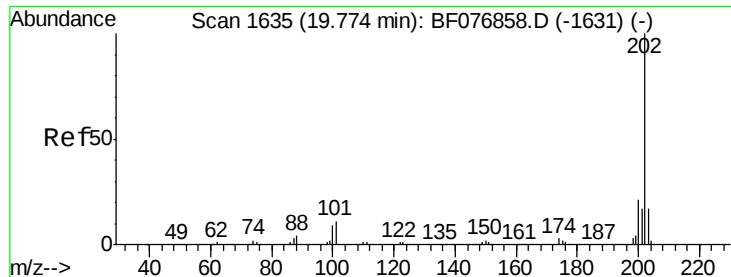


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 31.22 ng

RT: 19.77 min Scan# 1635

Delta R.T. 0.00 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)DL

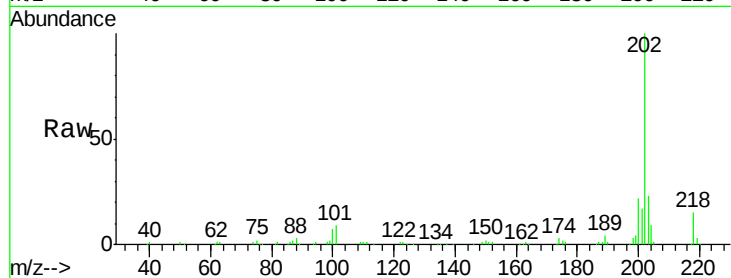
Tot Ion:202 Resp: 223963

Ion Ratio Lower Upper

202 100

200 22.4 16.7 25.1

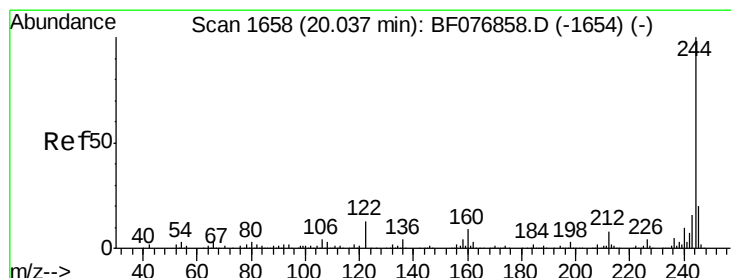
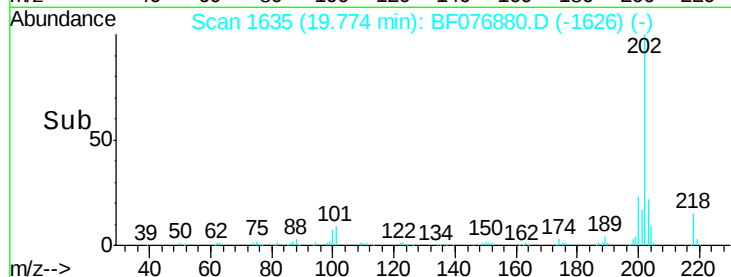
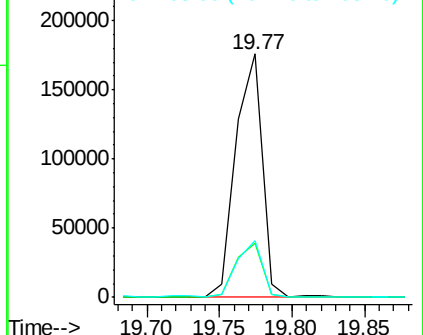
203 23.1 14.0 21.0#



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: 0.48 ng

RT: 20.03 min Scan# 1657

Delta R.T. -0.01 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

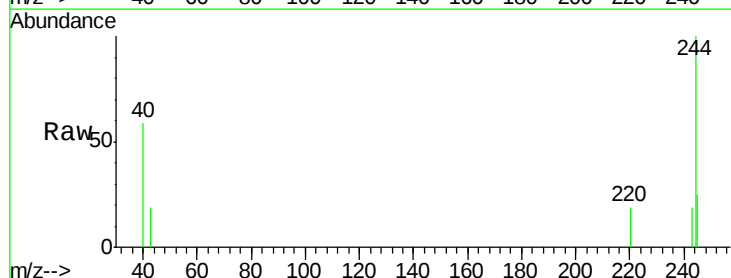
Tgt Ion:244 Resp: 2194

Ion Ratio Lower Upper

244 100

212 0.0 6.3 9.5#

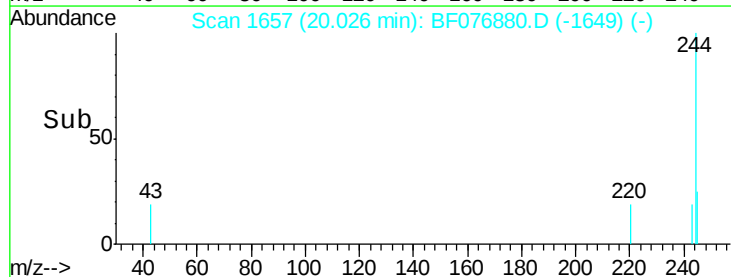
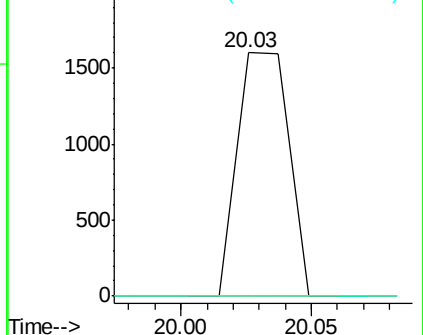
122 0.0 10.1 15.1#

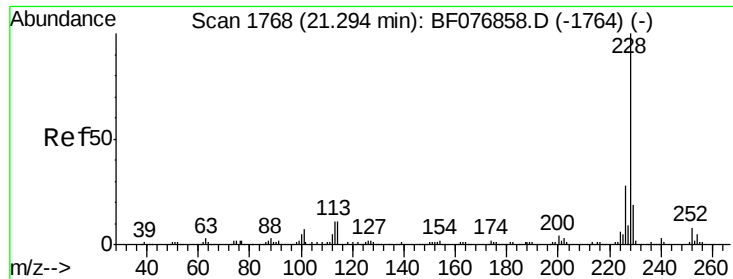


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

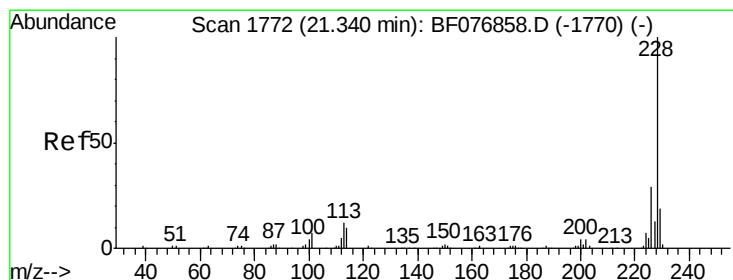
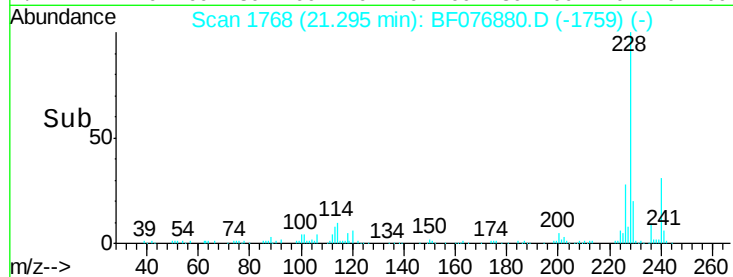
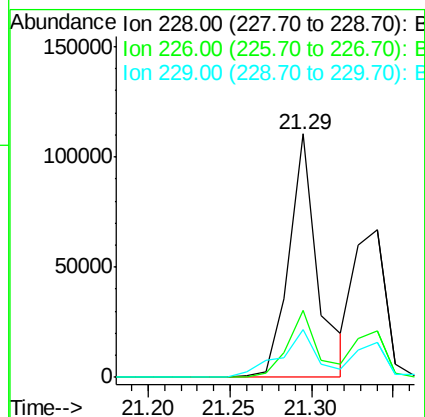
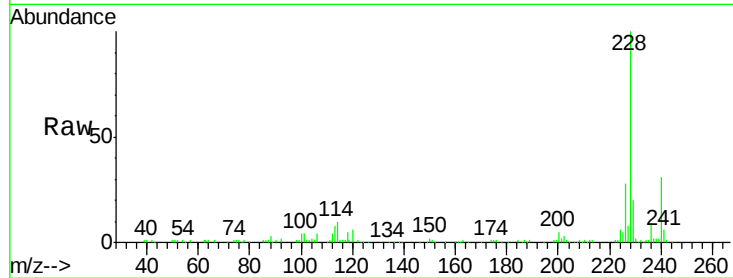




#80
Benzo(a)anthracene
Concen: 20.64 ng
RT: 21.29 min Scan# 1768
Delta R.T. 0.00 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

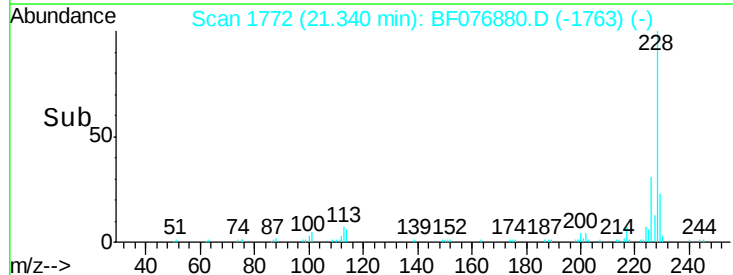
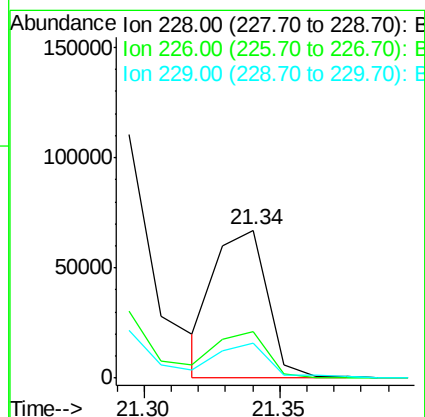
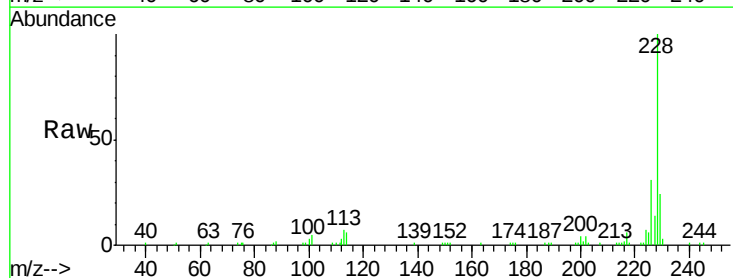
Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)DL

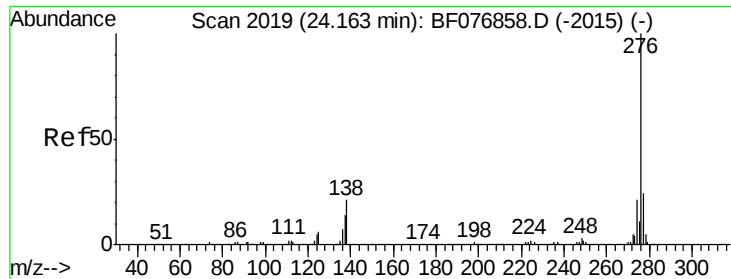
Tot Ion:228 Resp: 135575
Ion Ratio Lower Upper
228 100
226 27.6 22.1 33.1
229 19.8 15.5 23.3



#82
Chrysene
Concen: 15.44 ng m
RT: 21.34 min Scan# 1772
Delta R.T. 0.00 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Tgt Ion:228 Resp: 92505
Ion Ratio Lower Upper
228 100
226 31.0 23.4 35.0
229 23.9 15.4 23.0#

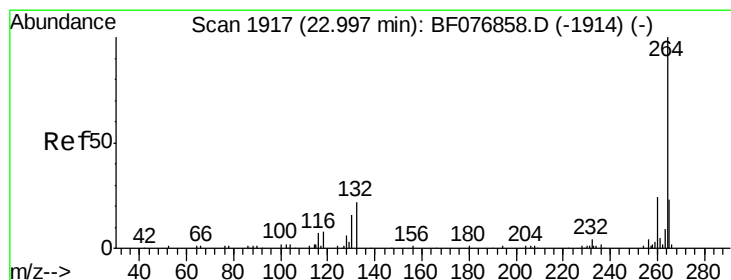
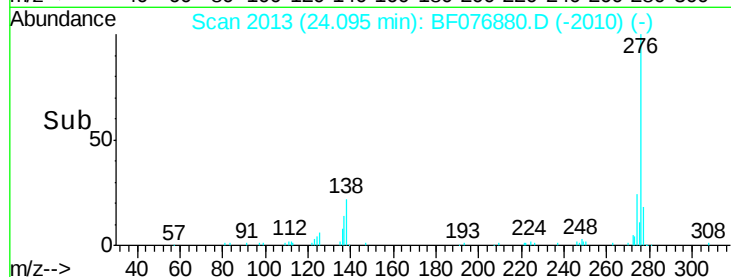
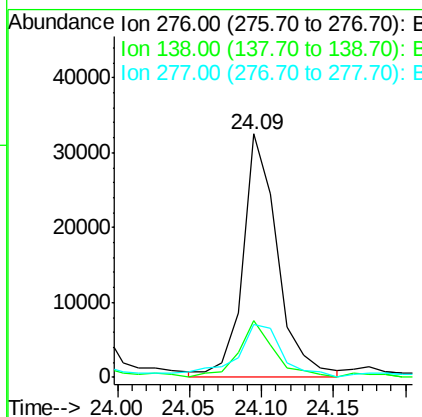
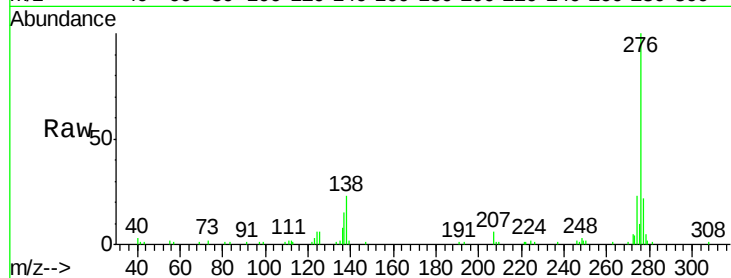




#85
Indeno(1,2,3-cd)pyrene
Concen: 8.67 ng/mL
RT: 24.09 min Scan# 2013
Delta R.T. -0.07 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

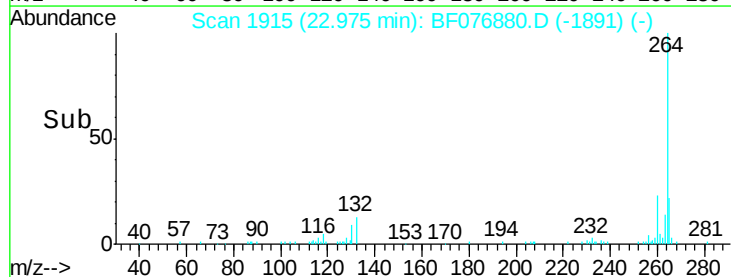
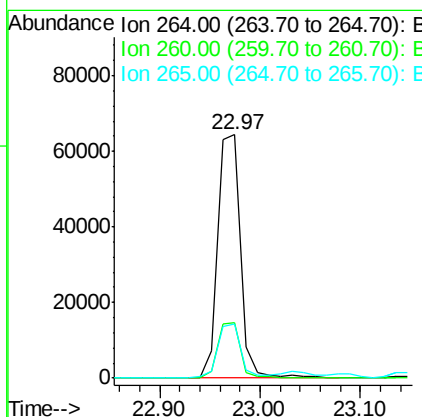
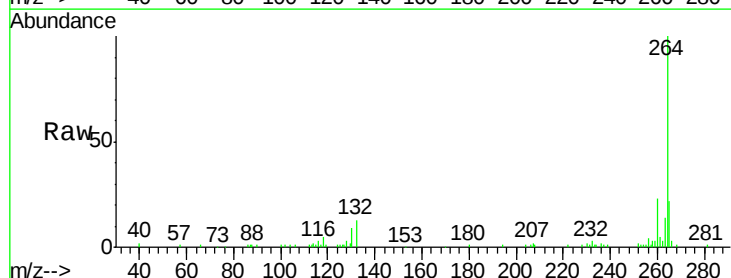
Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)DL

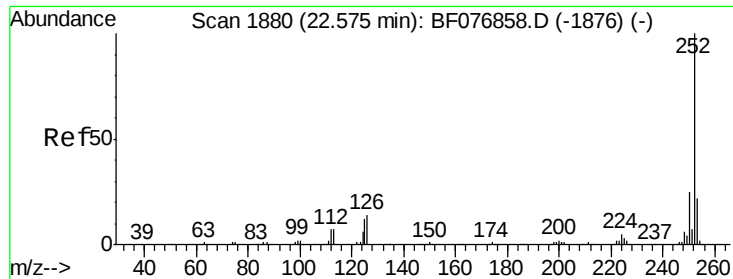
Tot Ion	Ratio	Lower	Upper
276	100		
138	17.9	14.6	22.0
277	21.2	14.8	22.2



#86
Perylene-d12
Concen: 20.00 ng
RT: 22.97 min Scan# 1915
Delta R.T. -0.02 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.0	28.4
265	22.3	18.1	27.1

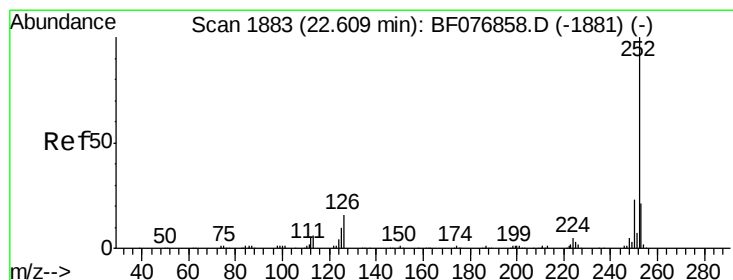
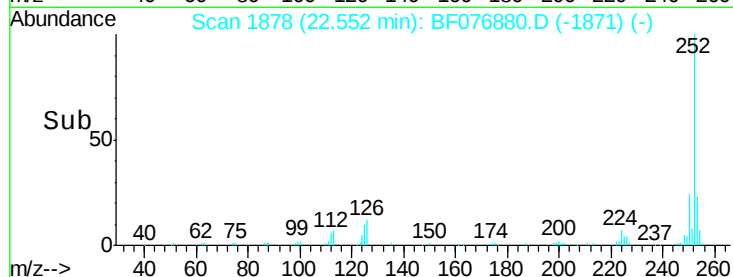
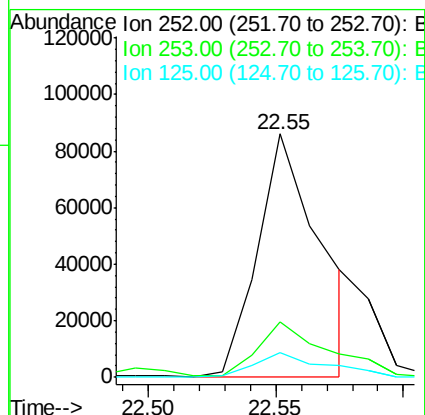
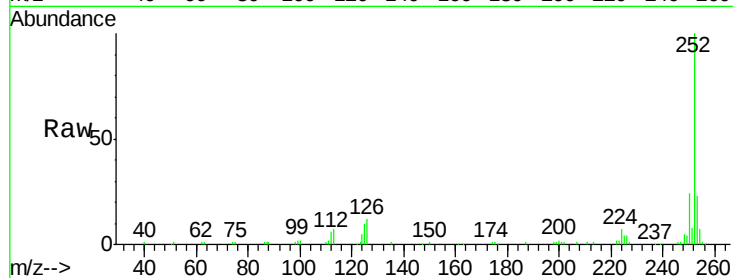




#87
Benzo(b)fluoranthene
Concen: 21.61 ng m
RT: 22.55 min Scan# 1878
Delta R.T. -0.02 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

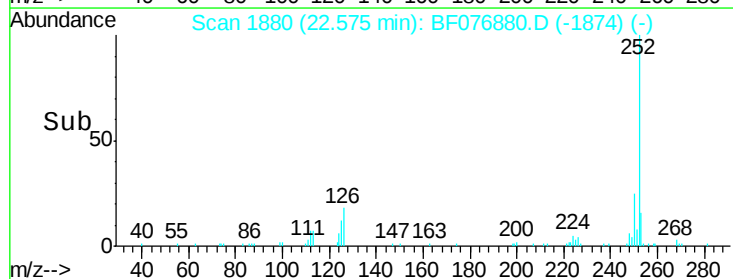
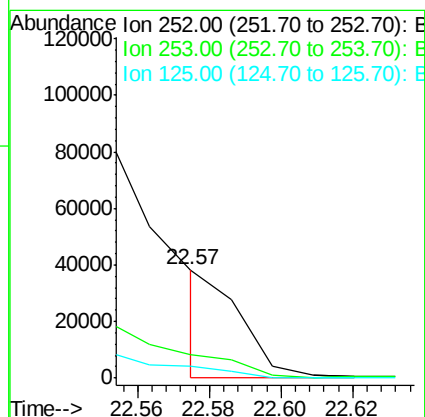
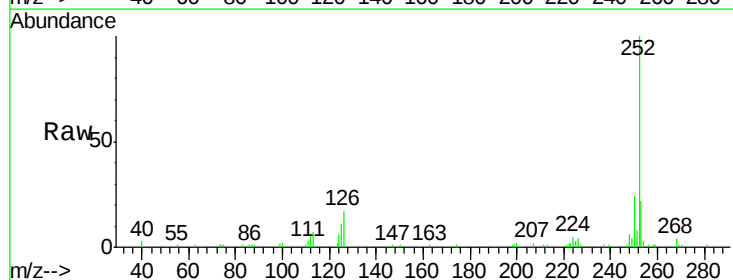
Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)DL

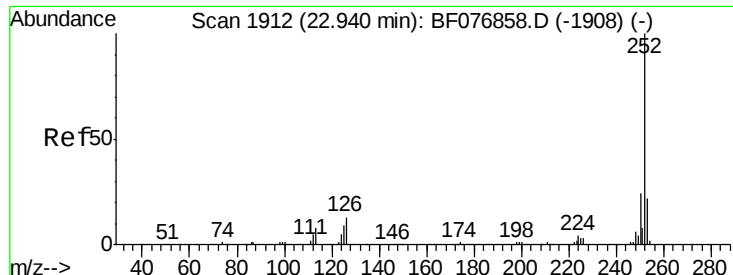
Tot Ion:252 Resp: 147117
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 10.4 9.4 14.0



#88
Benzo(k)fluoranthene
Concen: 3.91 ng m
RT: 22.57 min Scan# 1880
Delta R.T. -0.03 min
Lab File: BF076880.D
Acq: 15 Jan 2015 12:46

Tgt Ion:252 Resp: 23284
Ion Ratio Lower Upper
252 100
253 21.7 17.2 25.8
125 11.3 7.1 10.7#





#89

Benzo(a)pyrene

Concen: 13.83 ng

RT: 22.91 min Scan# 1909

Delta R.T. -0.03 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)DL

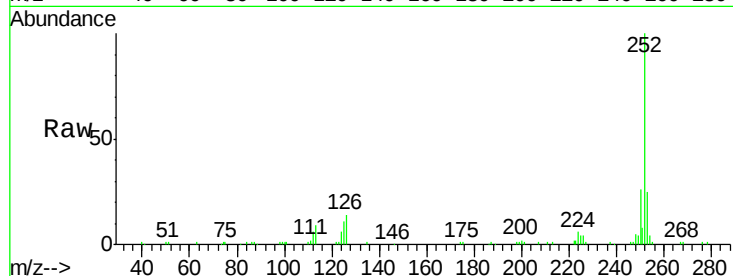
Tot Ion:252 Resp: 83056

Ion Ratio Lower Upper

252 100

253 24.8 17.9 26.9

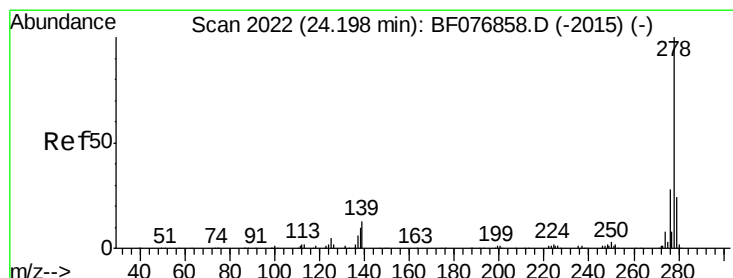
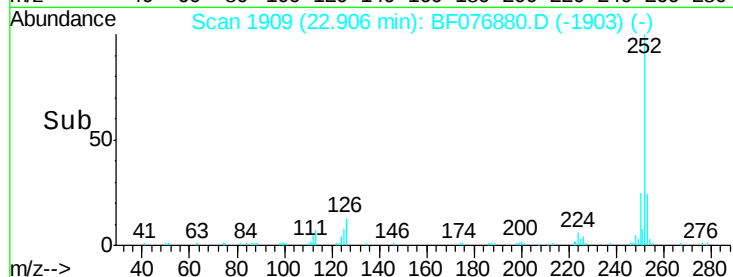
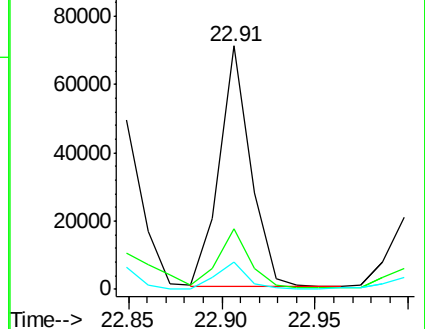
125 11.4 7.2 10.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.20 ng m

RT: 24.12 min Scan# 2015

Delta R.T. -0.08 min

Lab File: BF076880.D

Acq: 15 Jan 2015 12:46

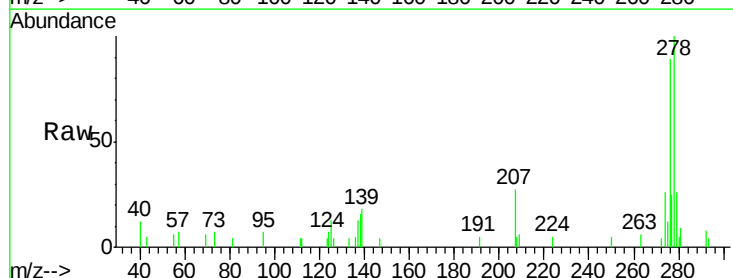
Tgt Ion:278 Resp: 12119

Ion Ratio Lower Upper

278 100

139 17.8 10.5 15.7#

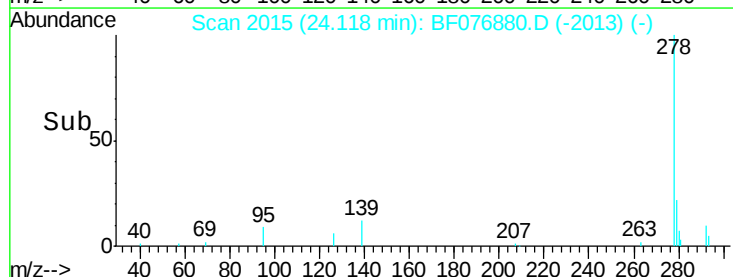
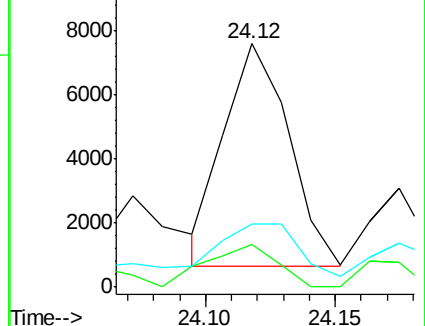
279 25.9 19.3 28.9

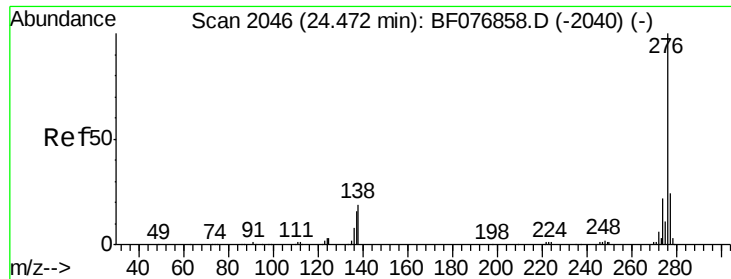


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 8.44 ng
 RT: 24.39 min Scan# 2039
 Delta R.T. -0.08 min
 Lab File: BF076880.D
 Acq: 15 Jan 2015 12:46

Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-3(7-7.5)DL

Tot Ion:276	Resp:	46254
Ion	Ratio	Lower Upper
276	100	
277	22.8	19.5 29.3
138	27.5	15.0 22.6

