

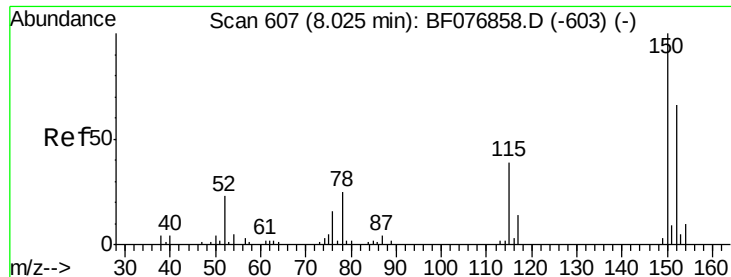
Data Path : Z:\HPCHEM1\BNA F\DATA\BF011515\
 Data File : BF076884.D
 Acq On : 15 Jan 2015 15:05
 Operator : IZ / TP
 Sample : G1030-13DL 5X
 Misc : S
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP5-SS-1(2-4)DL

Quant Time: Jan 16 10:10:12 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 15 11:52:04 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.02	152	29370	20.00	ng	0.00
21) Naphthalene-d8	10.93	136	118688	20.00	ng	0.00
38) Acenaphthene-d10	15.07	164	61015	20.00	ng	-0.01
63) Phenanthrene-d10	17.81	188	106042	20.00	ng	-0.01
75) Chrysene-d12	21.31	240	110962	20.00	ng	0.00
86) Perylene-d12	22.96	264	103988	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	39610	22.17	ng	0.00
7) Phenol-d6	7.41	99	51386	22.80	ng	-0.01
23) Nitrobenzene-d5	9.30	82	29768	13.90	ng	-0.01
41) 2,4,6-Tribromophenol	16.72	330	9844	19.88	ng	0.00
44) 2-Fluorobiphenyl	13.58	172	54261	13.53	ng	-0.01
78) Terphenyl-d14	20.04	244	52872	10.97	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	14.71	152	17873	2.85	ng	97
70) Phenanthrene	17.84	178	91121	13.78	ng	99
71) Anthracene	17.92	178	28575	4.43	ng	98
74) Fluoranthene	19.49	202	310622	45.84	ng	97
77) Pyrene	19.77	202	287932	37.86	ng	# 96
80) Benzo(a)anthracene	21.29	228	184365	26.48	ng	98
82) Chrysene	21.34	228	127465	20.08	ng	96
85) Indeno(1,2,3-cd)pyrene	24.09	276	91516m	13.60	ng	
87) Benzo(b)fluoranthene	22.55	252	218568m	31.21	ng	
88) Benzo(k)fluoranthene	22.57	252	40230m	6.57	ng	
89) Benzo(a)pyrene	22.91	252	137039	22.18	ng	99
90) Dibenzo(a,h)anthracene	24.12	278	17815m	3.14	ng	
91) Benzo(a,h,i)perylene	24.39	276	81260	14.42	ng	# 93

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

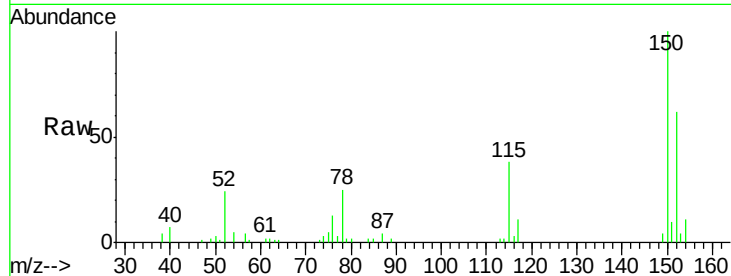


#1

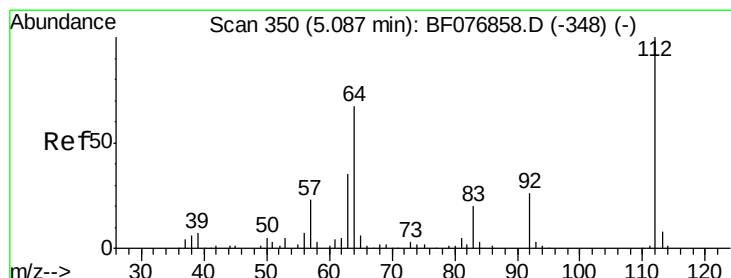
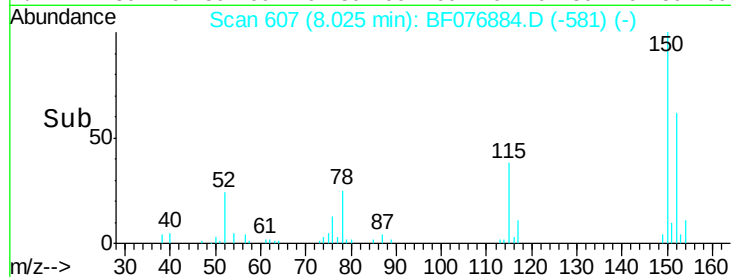
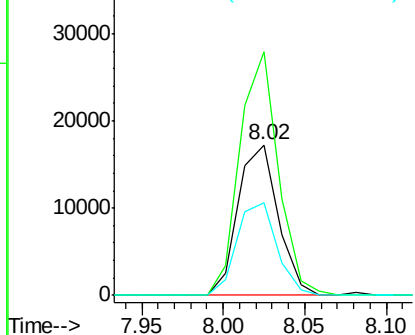
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.02 min Scan# 607
Delta R.T. 0.00 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

Instrument :
BNA_F
ClientSampleId :
TP5-SS-1(2-4)DL

Tot Ion:152 Resp: 29370
Ion Ratio Lower Upper
152 100
150 161.5 121.7 182.5
115 61.3 47.0 70.6



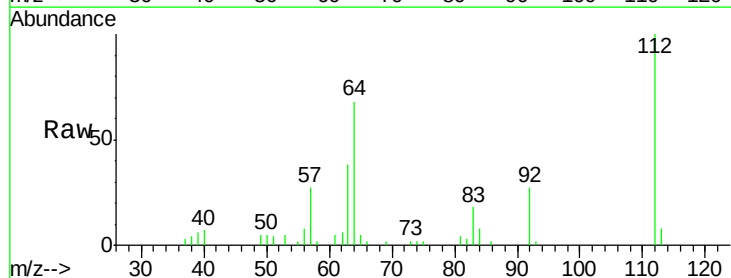
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



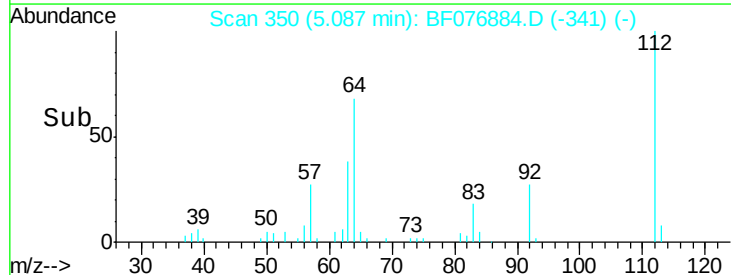
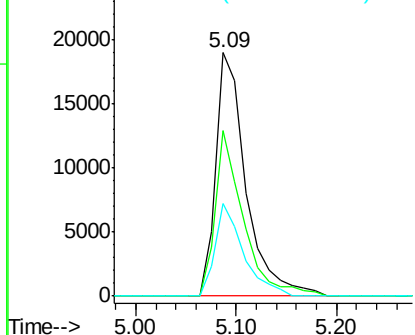
#5

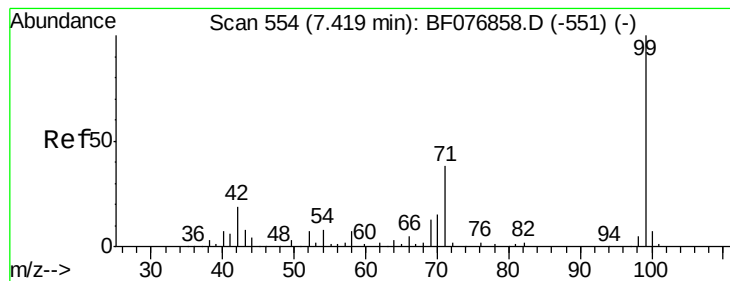
2-Fluorophenol
Concen: 22.17 ng
RT: 5.09 min Scan# 350
Delta R.T. 0.00 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

Tgt Ion:112 Resp: 39610
Ion Ratio Lower Upper
112 100
64 68.2 54.2 81.4
63 37.8 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: 22.80 ng

RT: 7.41 min Scan# 553

Delta R.T. -0.01 min

Lab File: BF076884.D

Acq: 15 Jan 2015 15:05

Instrument :

BNA_F

ClientSampleId :

TP5-SS-1(2-4)DL

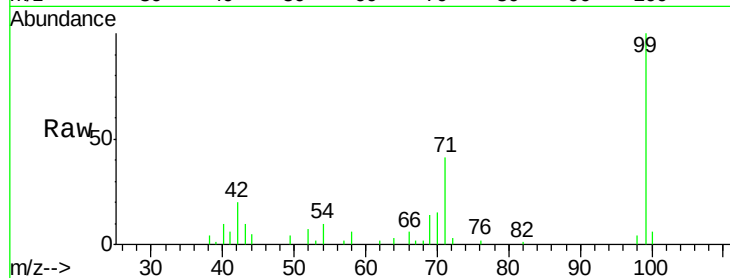
Tot Ion: 99 Resp: 51386

Ion Ratio Lower Upper

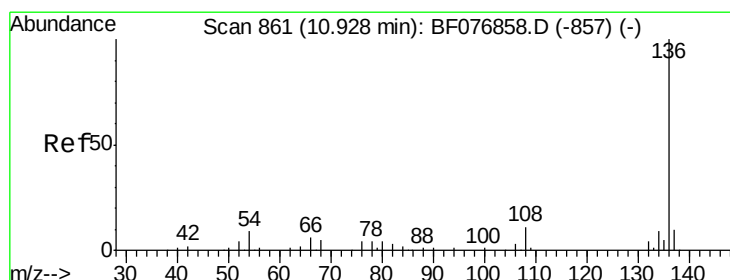
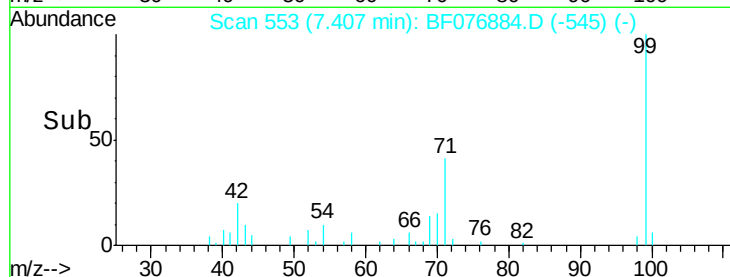
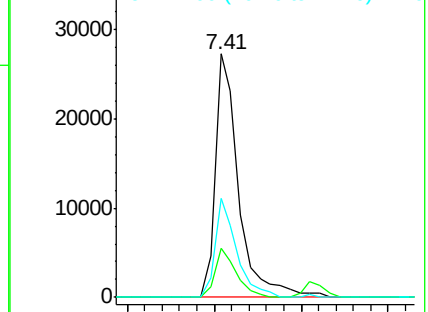
99 100

42 20.4 15.0 22.4

71 40.7 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: BF076884.D

Acq: 15 Jan 2015 15:05

Tgt Ion: 136 Resp: 118688

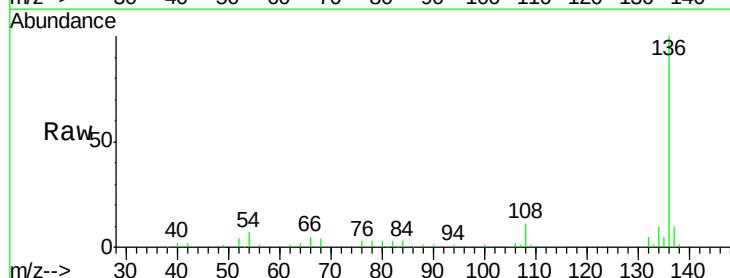
Ion Ratio Lower Upper

136 100

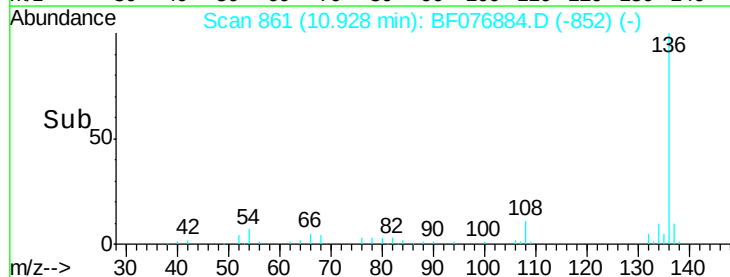
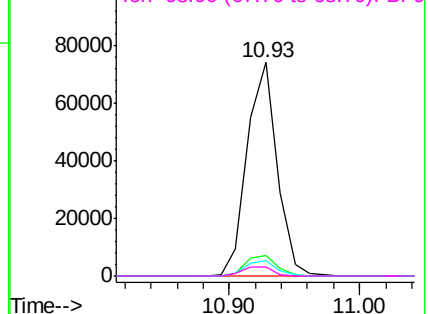
137 9.8 8.1 12.1

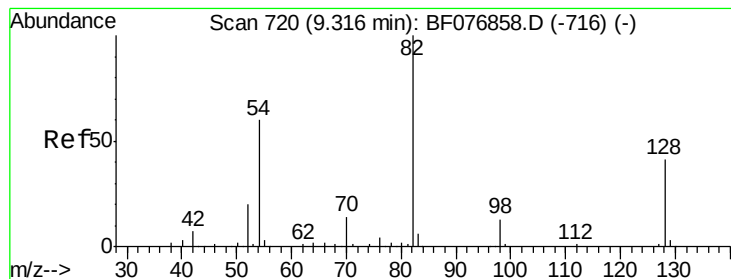
54 7.4 7.0 10.4

68 4.1 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: 13.90 ng

RT: 9.30 min Scan# 719

Delta R.T. -0.01 min

Lab File: BF076884.D

Acq: 15 Jan 2015 15:05

Instrument :

BNA_F

ClientSampleId :

TP5-SS-1(2-4)DL

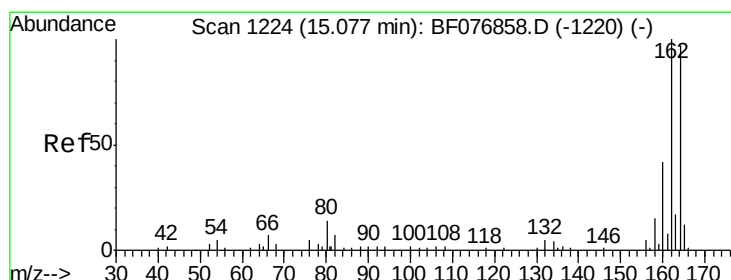
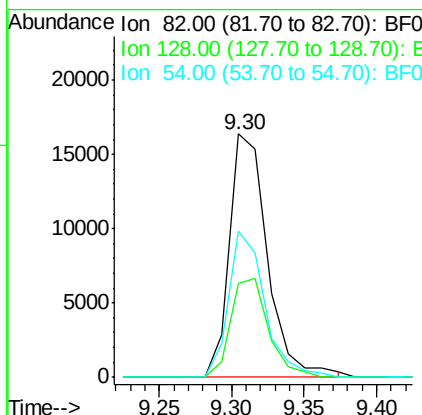
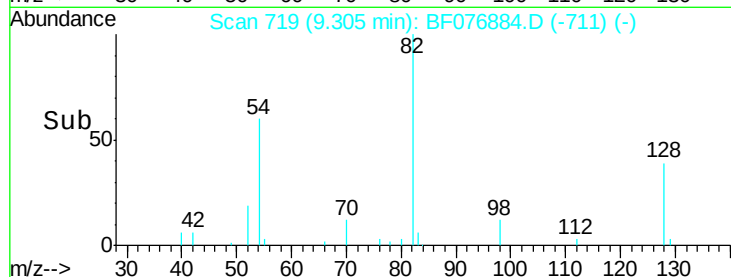
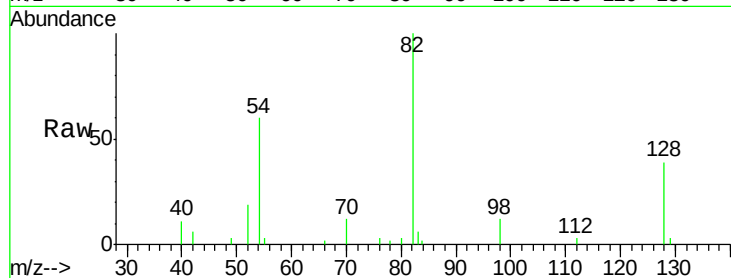
Tot Ion: 82 Resp: 29768

Ion Ratio Lower Upper

82 100

128 38.5 33.1 49.7

54 60.2 48.3 72.5



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.07 min Scan# 1223

Delta R.T. -0.01 min

Lab File: BF076884.D

Acq: 15 Jan 2015 15:05

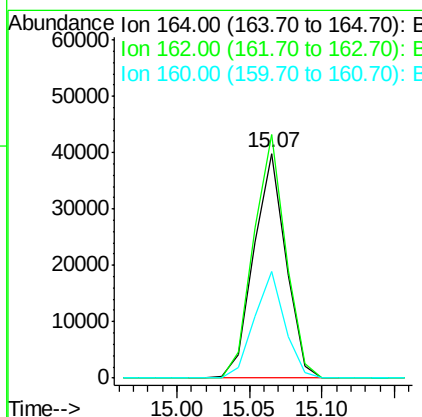
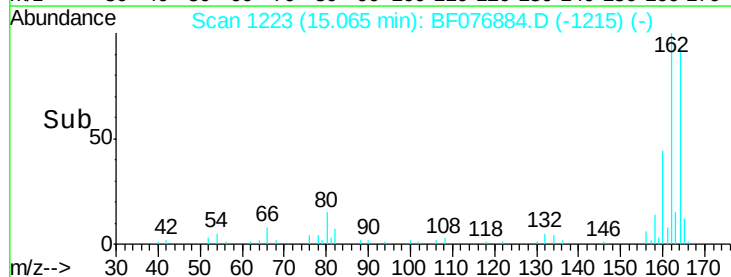
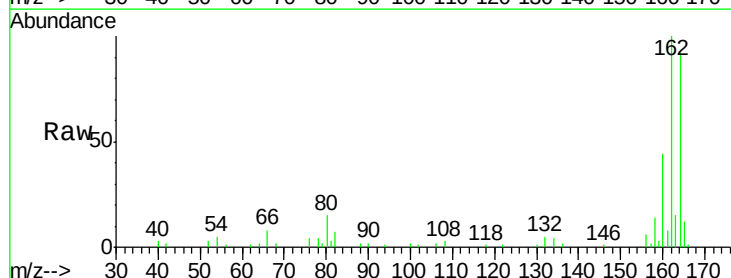
Tgt Ion: 164 Resp: 61015

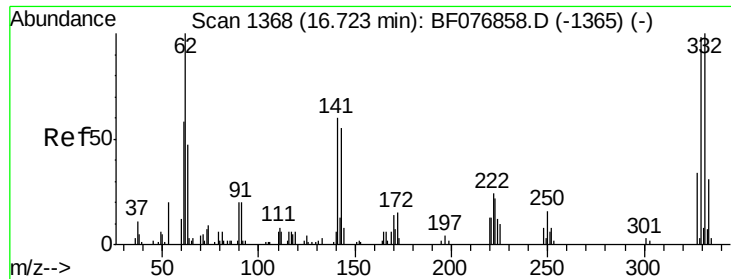
Ion Ratio Lower Upper

164 100

162 108.4 82.4 123.6

160 47.3 34.8 52.2

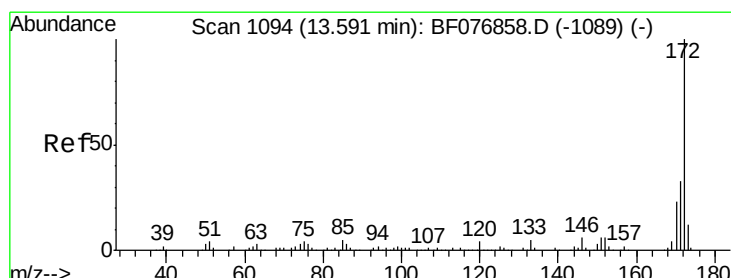
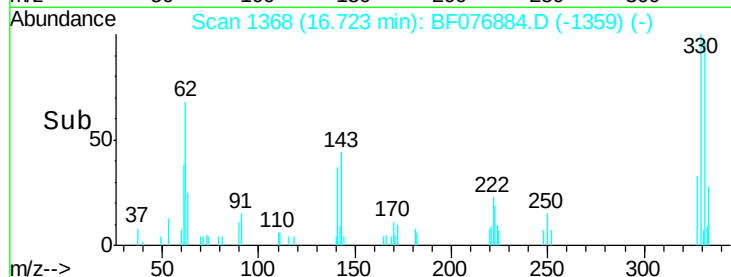
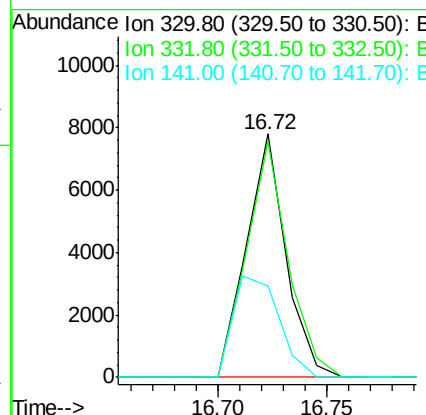
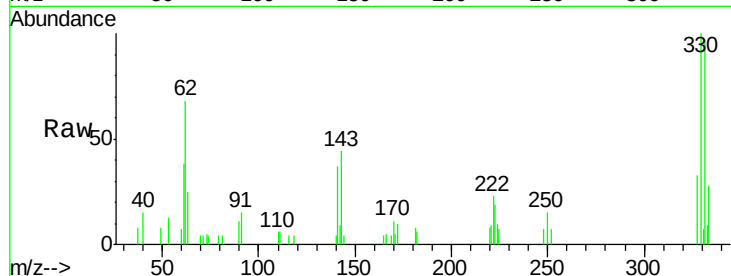




#41
 2,4,6-Tribromophenol
 Concen: 19.88 ng
 RT: 16.72 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: BF076884.D
 Acq: 15 Jan 2015 15:05

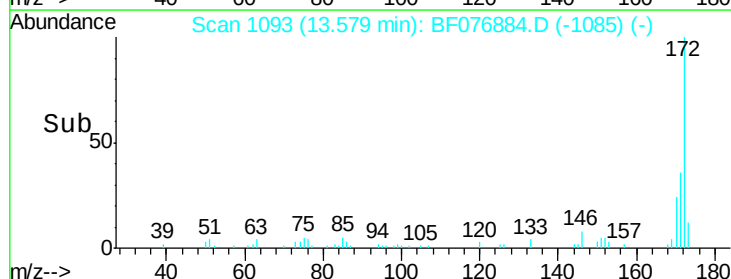
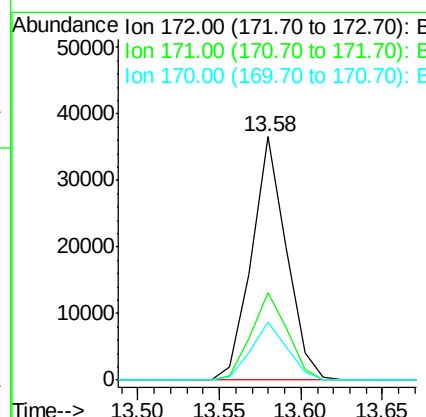
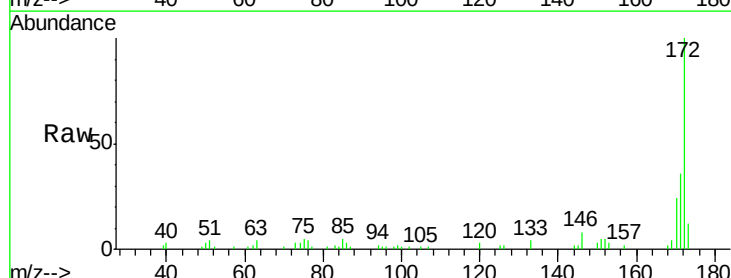
Instrument :
 BNA_F
 ClientSampleId :
 TP5-SS-1(2-4)DL

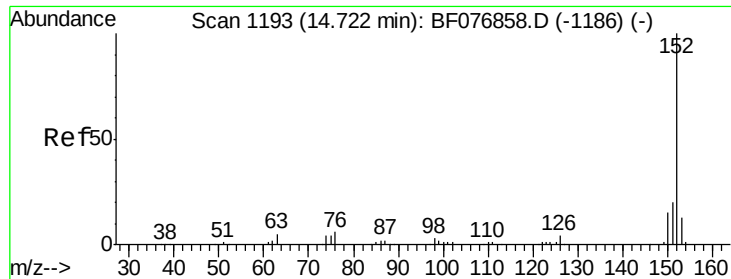
Tot Ion:330 Resp: 9844
 Ion Ratio Lower Upper
 330 100
 332 101.4 77.8 116.6
 141 48.1 38.5 57.7



#44
 2-Fluorobiphenyl
 Concen: 13.53 ng
 RT: 13.58 min Scan# 1093
 Delta R.T. -0.01 min
 Lab File: BF076884.D
 Acq: 15 Jan 2015 15:05

Tgt Ion:172 Resp: 54261
 Ion Ratio Lower Upper
 172 100
 171 35.8 26.6 40.0
 170 23.9 18.0 27.0





#48

Acenaphthylene

Concen: 2.85 ng

RT: 14.71 min Scan# 1192

Delta R.T. -0.01 min

Lab File: BF076884.D

Acq: 15 Jan 2015 15:05

Instrument :

BNA_F

ClientSampleId :

TP5-SS-1(2-4)DL

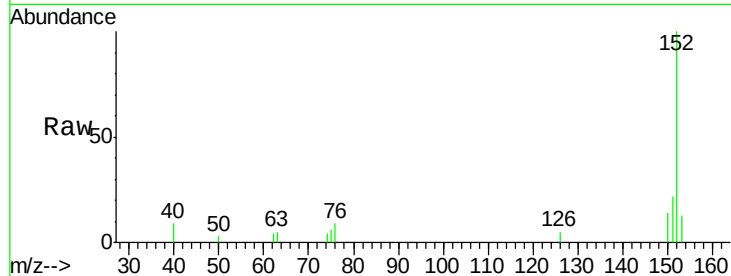
Tot Ion:152 Resp: 17873

Ion Ratio Lower Upper

152 100

151 21.7 15.9 23.9

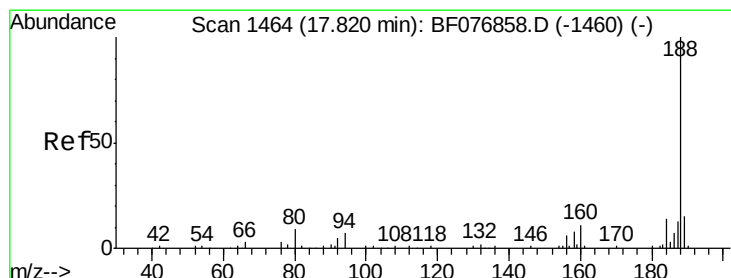
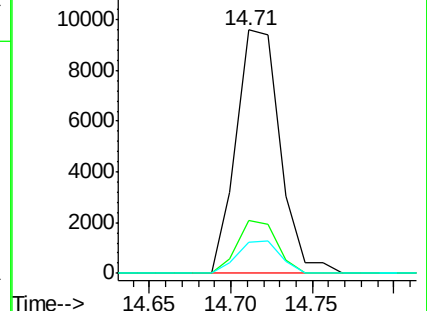
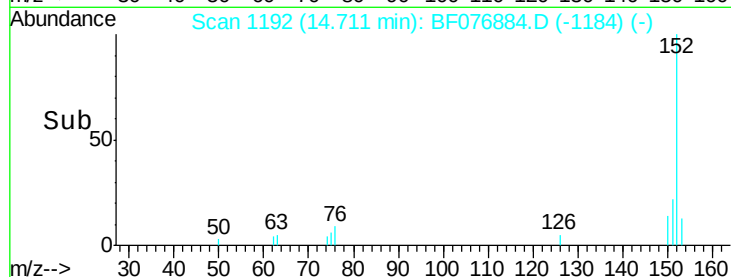
153 12.5 10.2 15.4



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.81 min Scan# 1463

Delta R.T. -0.01 min

Lab File: BF076884.D

Acq: 15 Jan 2015 15:05

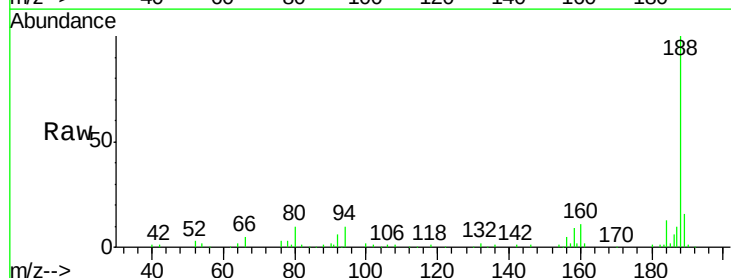
Tgt Ion:188 Resp: 106042

Ion Ratio Lower Upper

188 100

94 9.6 6.0 9.0#

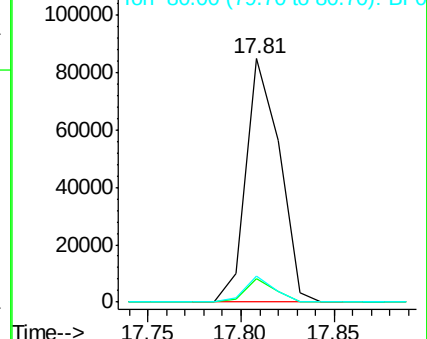
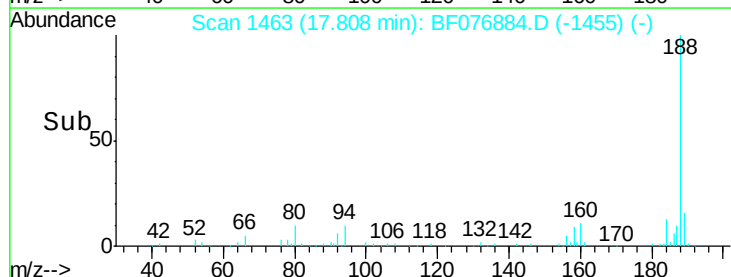
80 10.5 6.9 10.3#

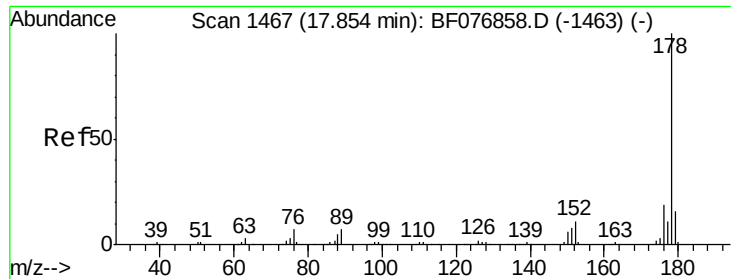


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

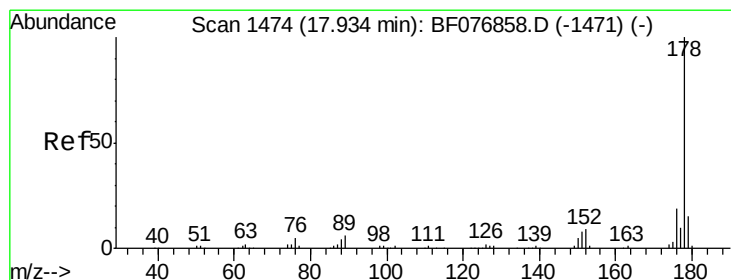
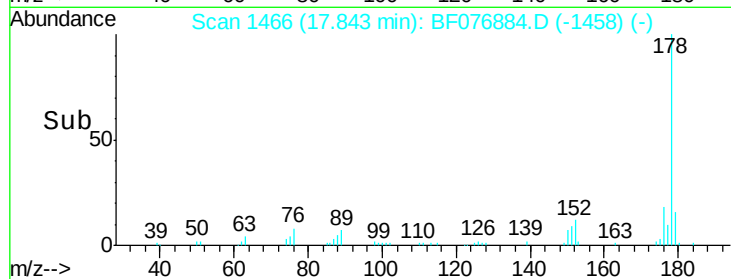
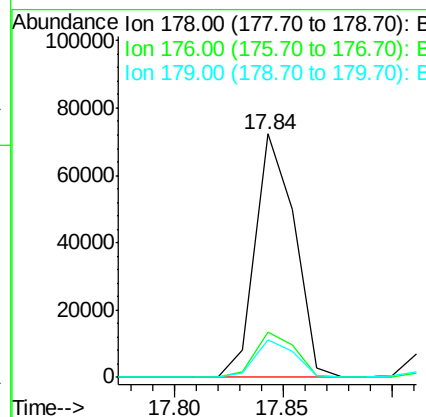
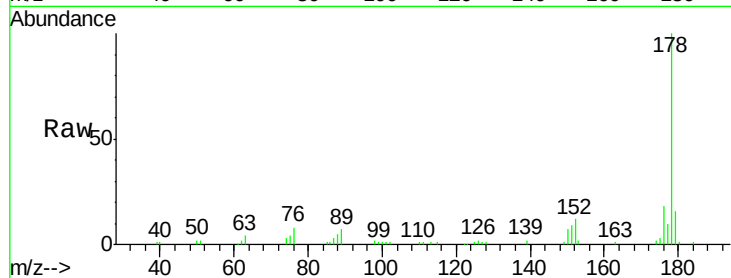




#70
Phenanthrene
Concen: 13.78 ng
RT: 17.84 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

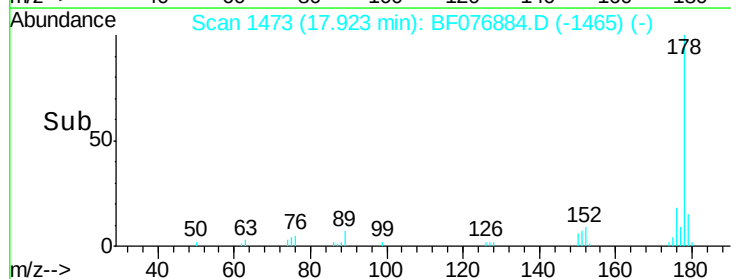
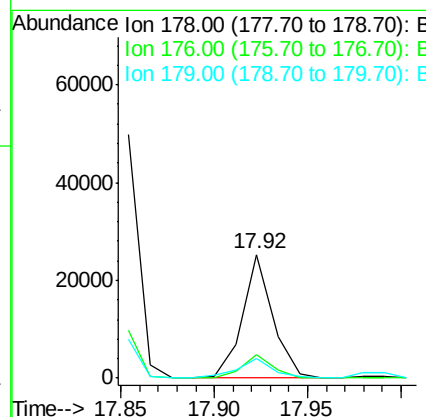
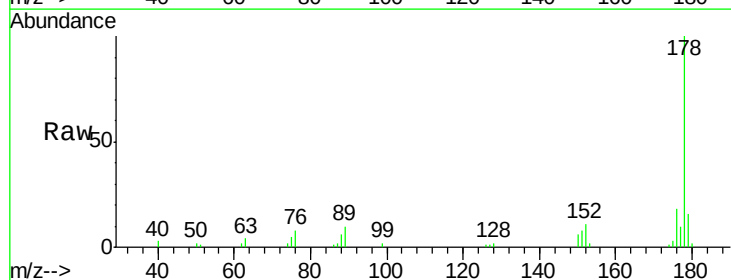
Instrument :
BNA_F
ClientSampleId :
TP5-SS-1(2-4)DL

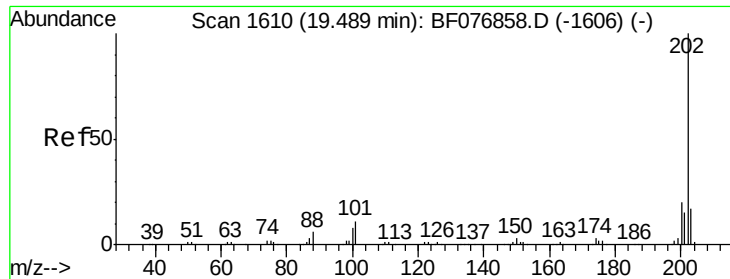
Tot Ion:178 Resp: 91121
Ion Ratio Lower Upper
178 100
176 18.4 15.1 22.7
179 15.6 12.7 19.1



#71
Anthracene
Concen: 4.43 ng
RT: 17.92 min Scan# 1473
Delta R.T. -0.01 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

Tgt Ion:178 Resp: 28575
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.0
179 15.6 11.9 17.9

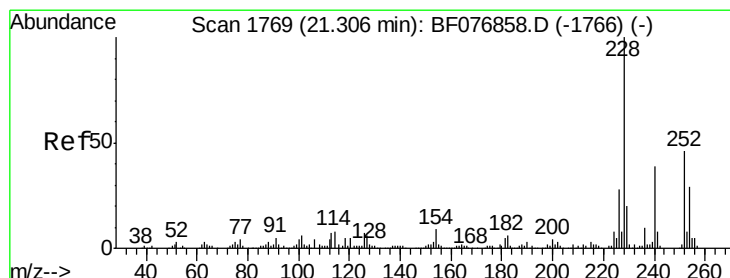
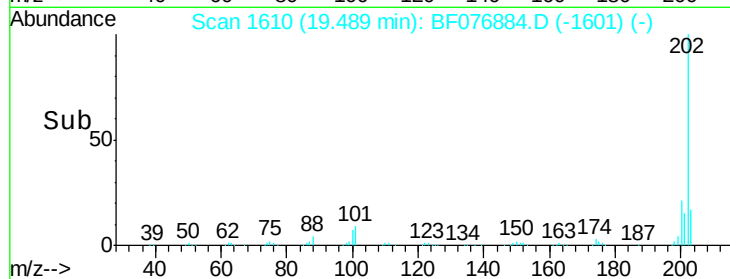
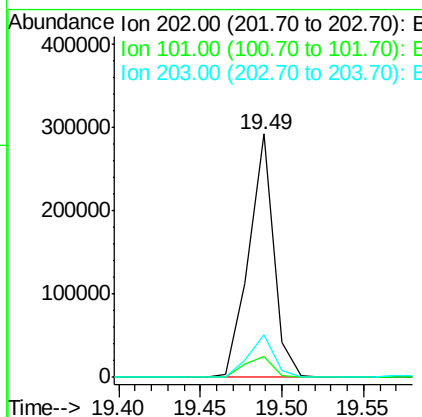
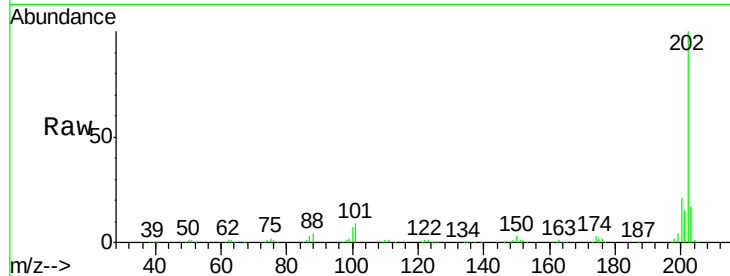




#74
 Fluoranthene
 Concen: 45.84 ng
 RT: 19.49 min Scan# 1610
 Delta R.T. 0.00 min
 Lab File: BF076884.D
 Acq: 15 Jan 2015 15:05

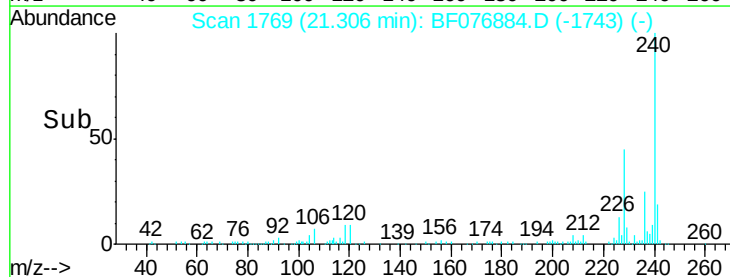
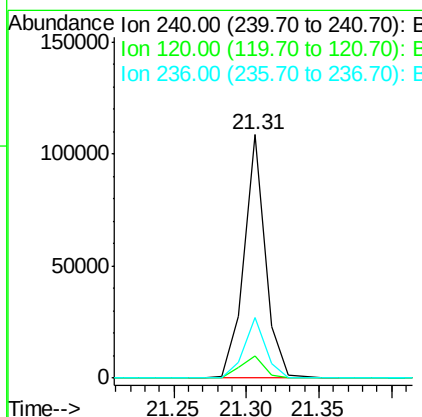
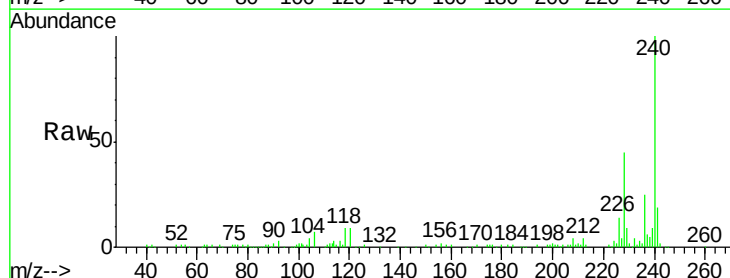
Instrument :
 BNA_F
 ClientSampleId :
 TP5-SS-1(2-4)DL

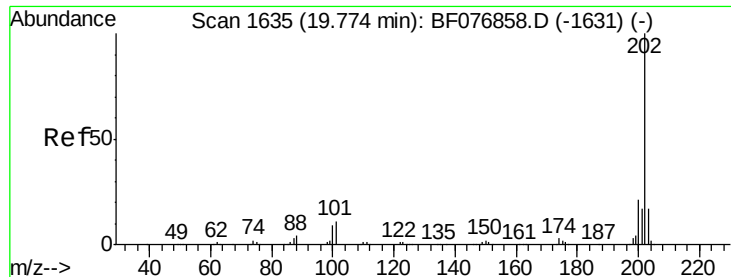
Tot Ion	Ratio	Lower	Upper
202	100		
101	8.8	0.0	30.7
203	17.3	0.0	36.9



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 21.31 min Scan# 1769
 Delta R.T. 0.00 min
 Lab File: BF076884.D
 Acq: 15 Jan 2015 15:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.3	10.4	15.6#
236	24.9	20.2	30.2

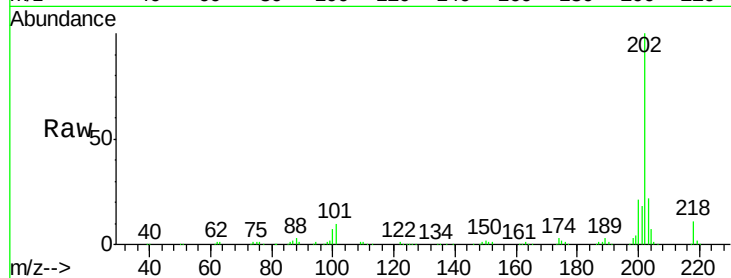




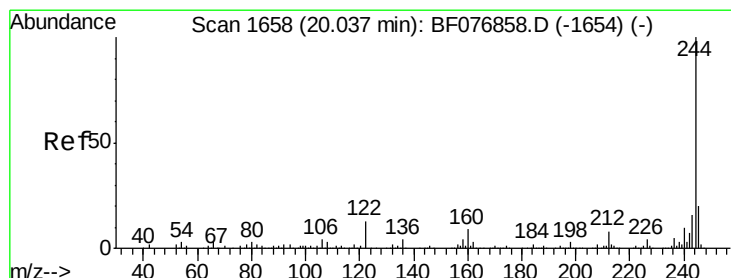
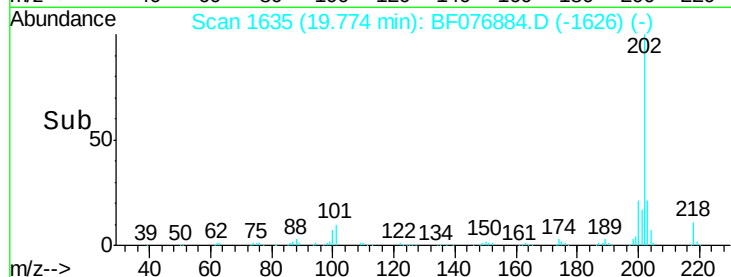
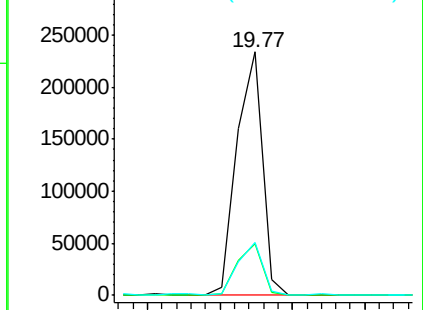
#77
Pvrene
Concen: 37.86 ng
RT: 19.77 min Scan# 1635
Delta R.T. 0.00 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

Instrument :
BNA_F
ClientSampleId :
TP5-SS-1(2-4)DL

Tot Ion:202 Resp: 287932
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 21.6 14.0 21.0#

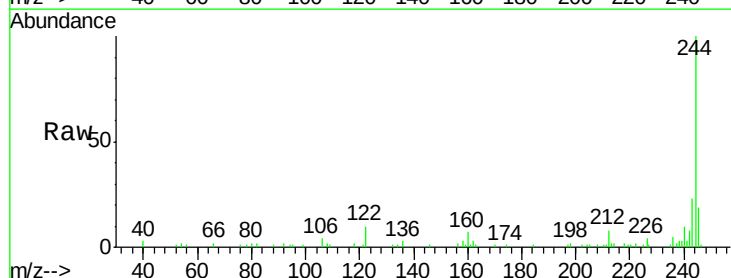


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

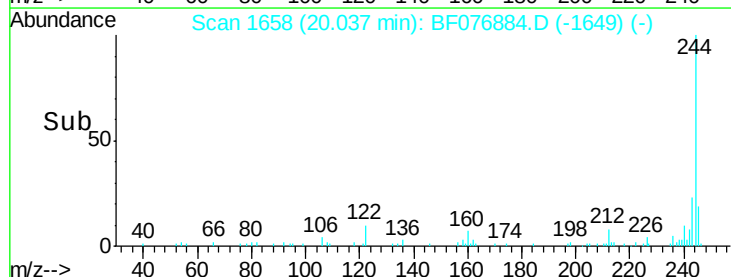
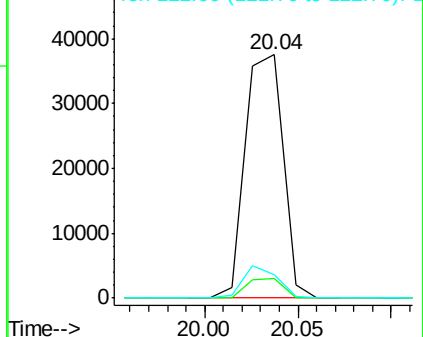


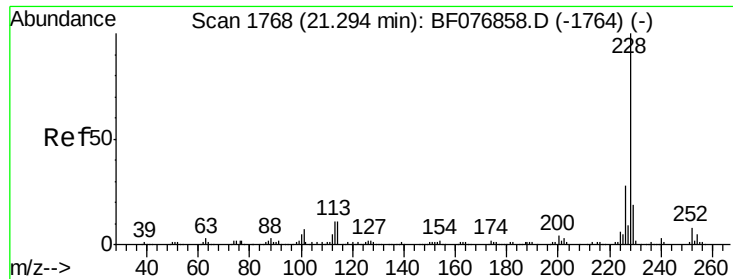
#78
Terphenyl-d14
Concen: 10.97 ng
RT: 20.04 min Scan# 1658
Delta R.T. 0.00 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

Tgt Ion:244 Resp: 52872
Ion Ratio Lower Upper
244 100
212 7.9 6.3 9.5
122 9.6 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

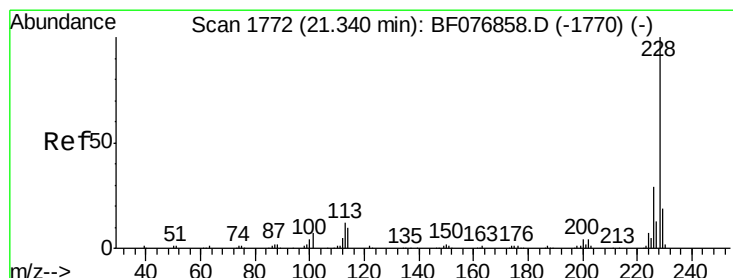
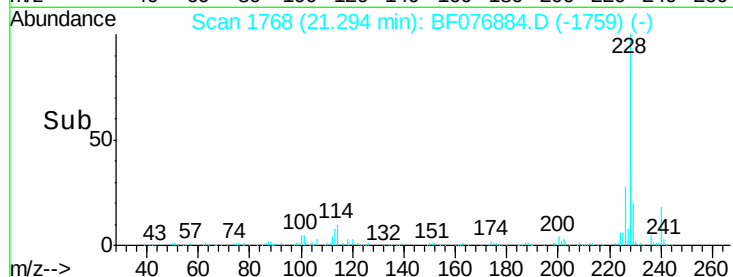
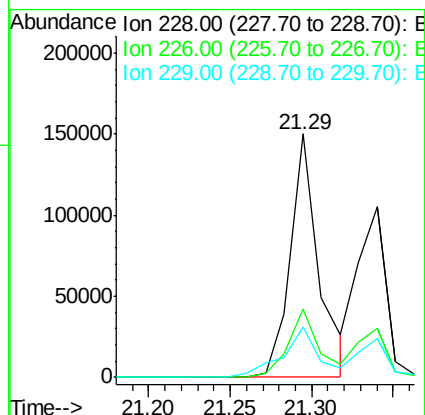
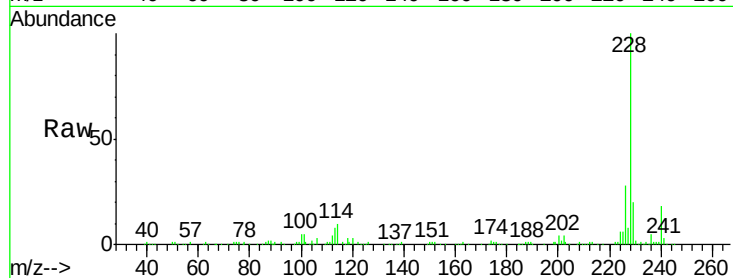




#80
Benzo(a)anthracene
Concen: 26.48 ng
RT: 21.29 min Scan# 1768
Delta R.T. 0.00 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

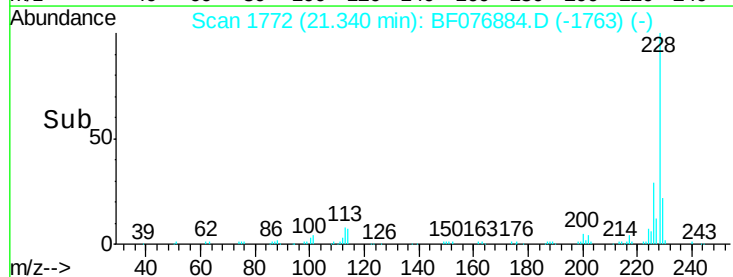
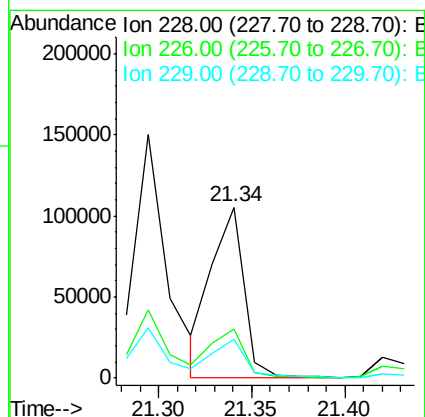
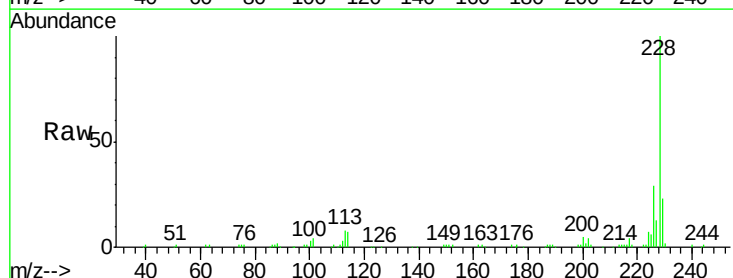
Instrument :
BNA_F
ClientSampleId :
TP5-SS-1(2-4)DL

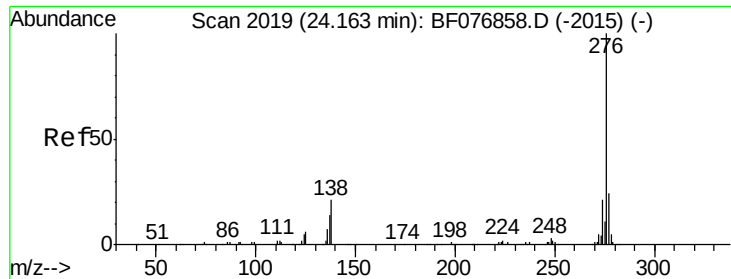
Tot Ion:228 Resp: 184365
Ion Ratio Lower Upper
228 100
226 28.2 22.1 33.1
229 20.5 15.5 23.3



#82
Chrysene
Concen: 20.08 ng
RT: 21.34 min Scan# 1772
Delta R.T. 0.00 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

Tgt Ion:228 Resp: 127465
Ion Ratio Lower Upper
228 100
226 28.8 23.4 35.0
229 22.9 15.4 23.0

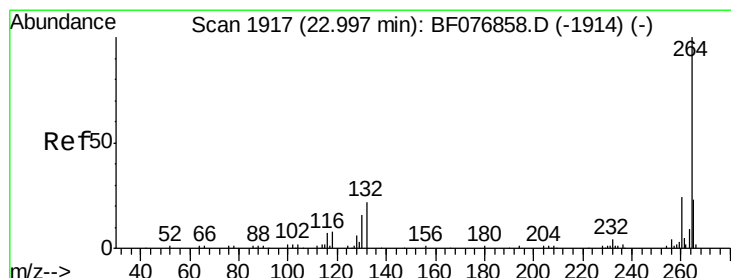
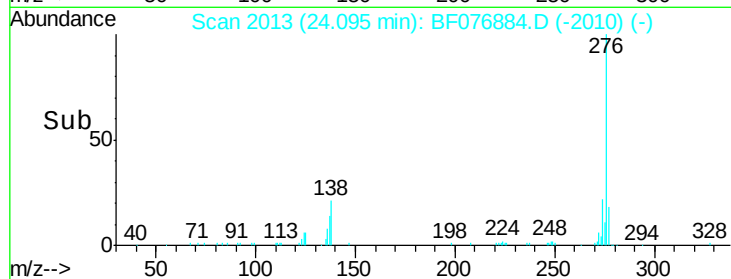
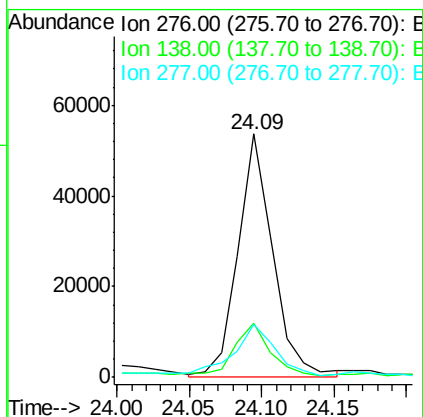
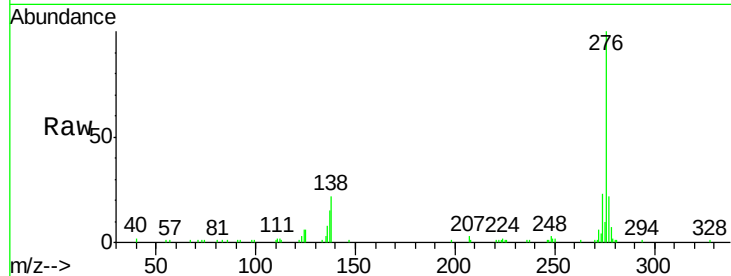




#85
Indeno(1,2,3-cd)pyrene
Concen: 13.60 ng/mL
RT: 24.09 min Scan# 2013
Delta R.T. -0.07 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

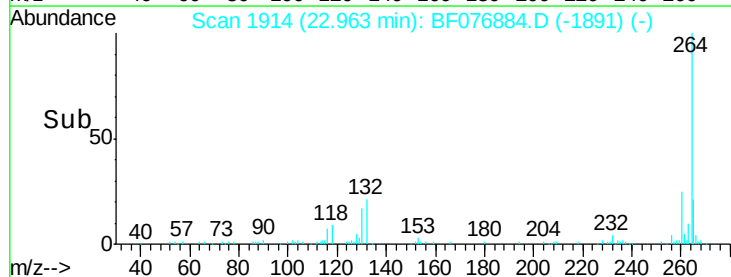
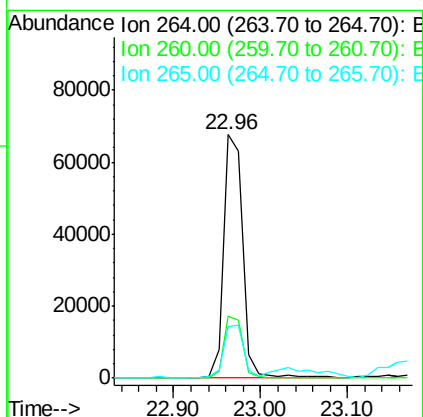
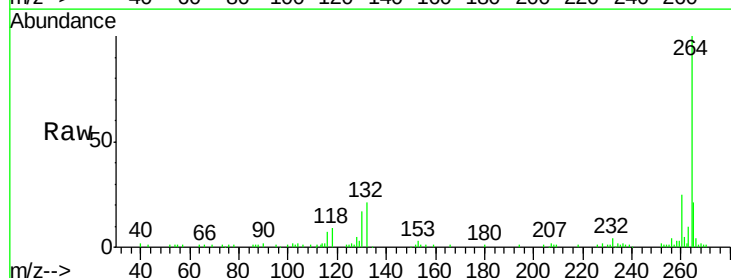
Instrument :
BNA_F
ClientSampleId :
TP5-SS-1(2-4)DL

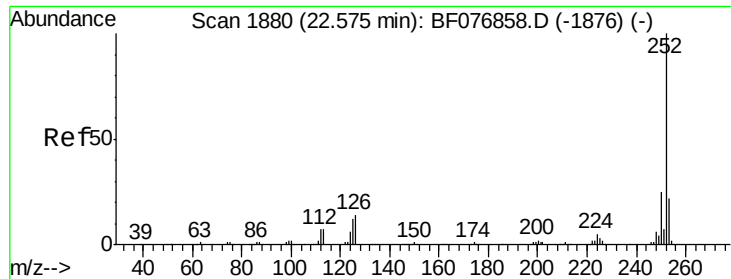
Tot Ion:276 Resp: 91516
Ion Ratio Lower Upper
276 100
138 14.2 14.6 22.0#
277 16.8 14.8 22.2



#86
Perylene-d12
Concen: 20.00 ng
RT: 22.96 min Scan# 1914
Delta R.T. -0.03 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

Tgt Ion:264 Resp: 103988
Ion Ratio Lower Upper
264 100
260 25.3 19.0 28.4
265 21.2 18.1 27.1

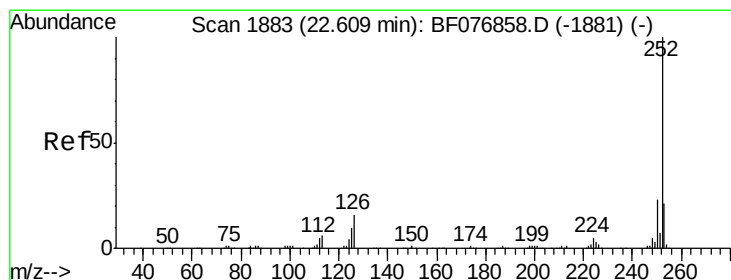
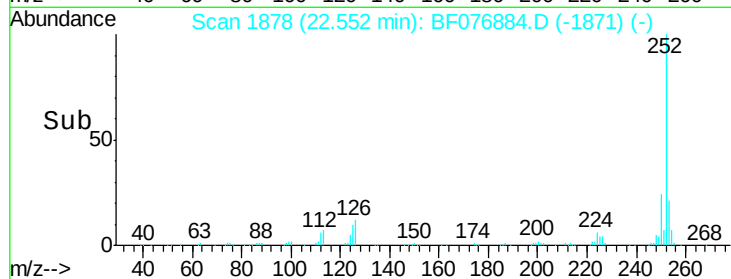
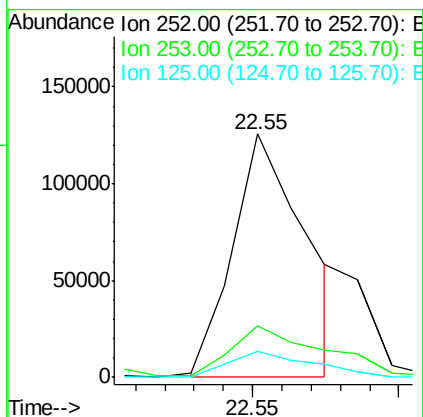
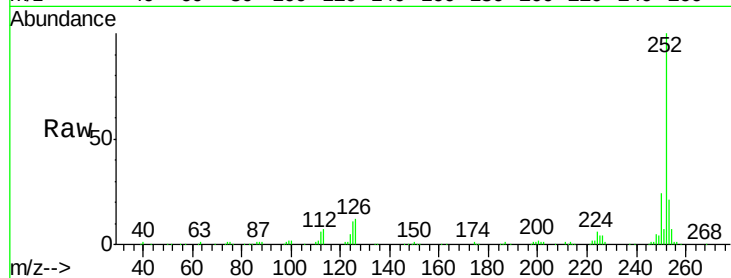




#87
Benzo(b)fluoranthene
Concen: 31.21 ng m
RT: 22.55 min Scan# 1878
Delta R.T. -0.02 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

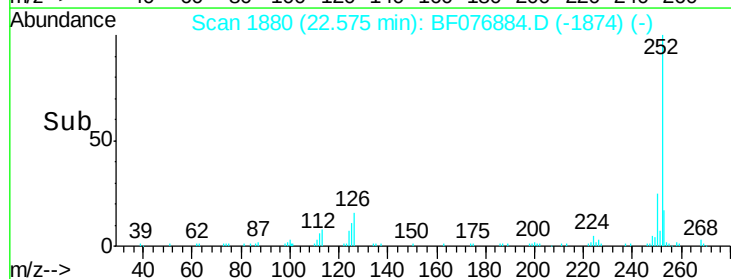
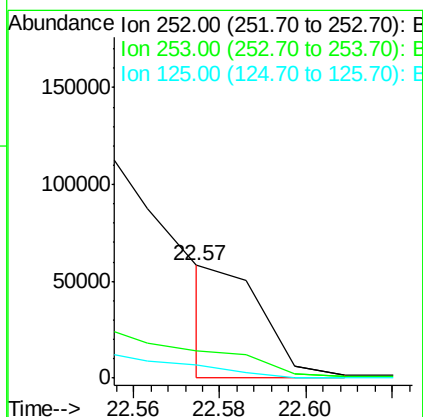
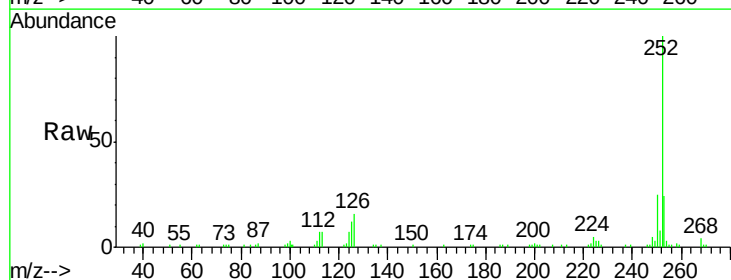
Instrument :
BNA_F
ClientSampleId :
TP5-SS-1(2-4)DL

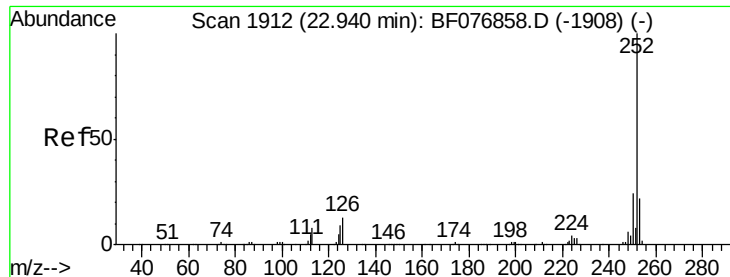
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	10.6	9.4	14.0



#88
Benzo(k)fluoranthene
Concen: 6.57 ng m
RT: 22.57 min Scan# 1880
Delta R.T. -0.03 min
Lab File: BF076884.D
Acq: 15 Jan 2015 15:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.2	25.8
125	11.7	7.1	10.7#





#89

Benzo(a)pyrene

Concen: 22.18 ng

RT: 22.91 min Scan# 1909

Delta R.T. -0.03 min

Lab File: BF076884.D

Acq: 15 Jan 2015 15:05

Instrument :

BNA_F

ClientSampleId :

TP5-SS-1(2-4)DL

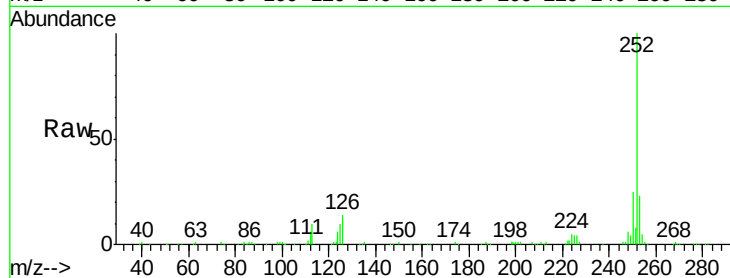
Tot Ion:252 Resp: 137039

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

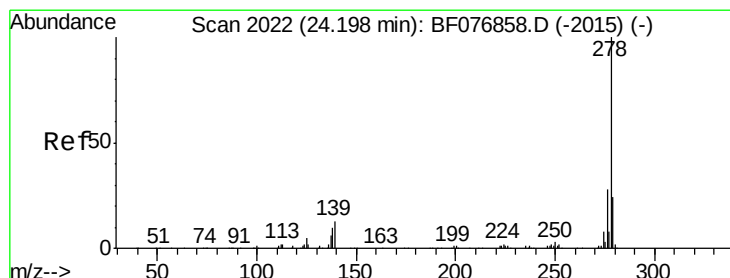
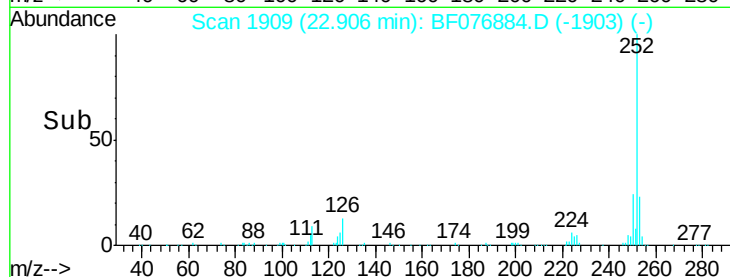
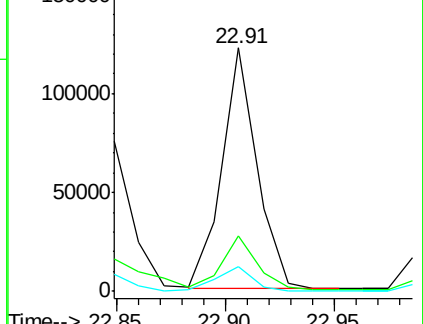
125 10.2 7.2 10.8



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: 3.14 ng m

RT: 24.12 min Scan# 2015

Delta R.T. -0.08 min

Lab File: BF076884.D

Acq: 15 Jan 2015 15:05

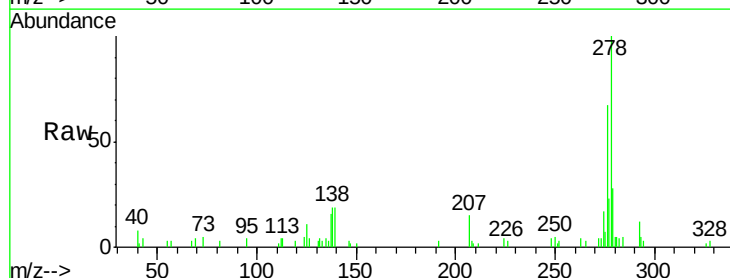
Tgt Ion:278 Resp: 17815

Ion Ratio Lower Upper

278 100

139 19.0 10.5 15.7#

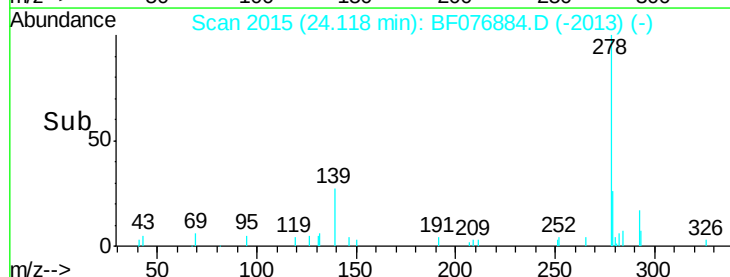
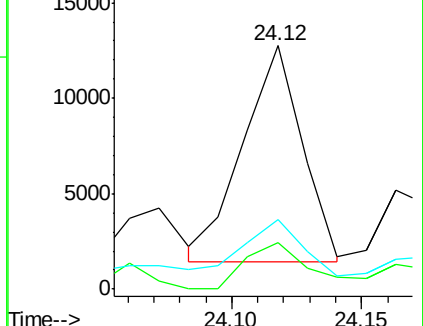
279 28.3 19.3 28.9

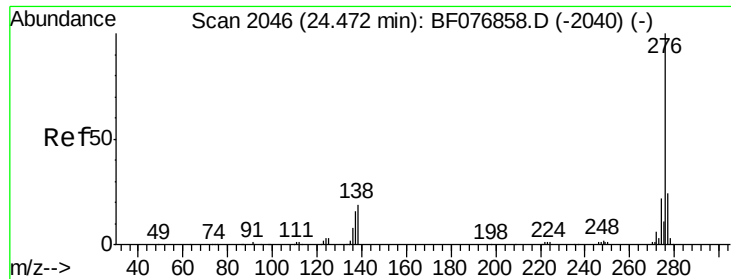


Abundance Ion 278.00 (277.70 to 278.70): E

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: 14.42 ng

RT: 24.39 min Scan# 2039

Delta R.T. -0.08 min

Lab File: BF076884.D

Acq: 15 Jan 2015 15:05

Instrument :

BNA_F

ClientSampleId :

TP5-SS-1(2-4)DL

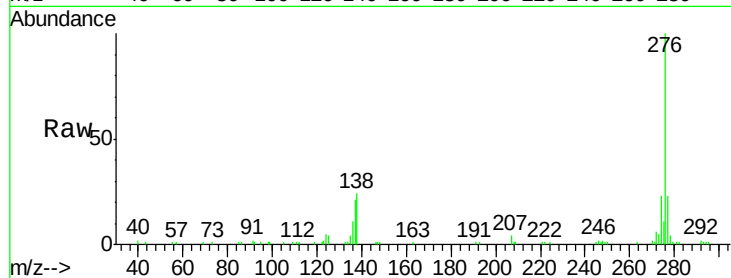
Tot Ion:276 Resp: 81260

Ion Ratio Lower Upper

276 100

277 23.3 19.5 29.3

138 24.4 15.0 22.6#



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

