

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011215\
 Data File : BF076827.D
 Acq On : 13 Jan 2015 3:35
 Operator : IZ / TP
 Sample : G1049-01 5X
 Misc : S
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WASTE

Quant Time: Jan 13 10:26:32 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 12 10:43:48 2015
 Response via : Initial Calibration

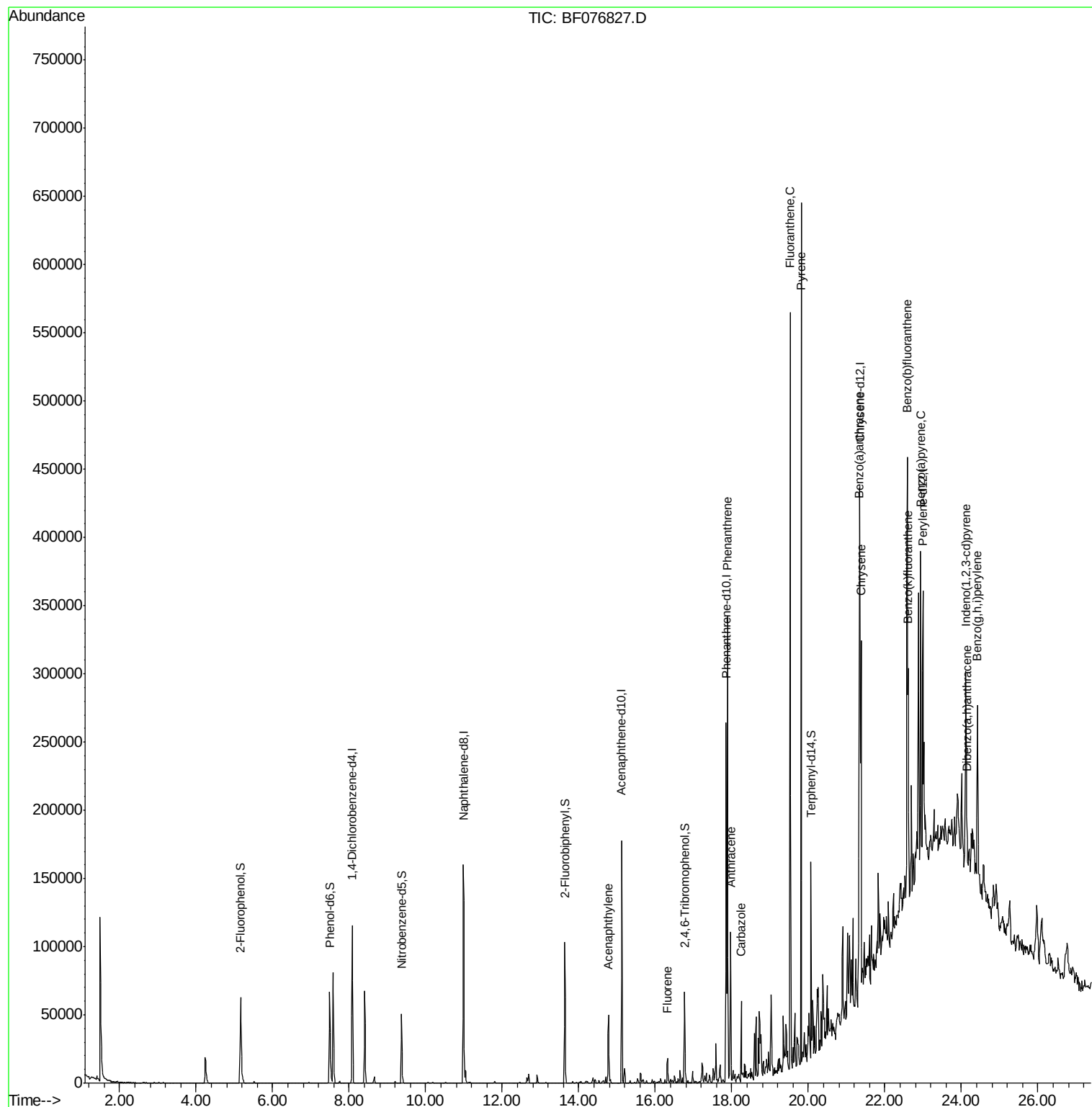
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	30374	20.00	ng	0.00
21) Naphthalene-d8	10.99	136	129916	20.00	ng	-0.01
38) Acenaphthene-d10	15.12	164	68345	20.00	ng	-0.01
63) Phenanthrene-d10	17.85	188	112191	20.00	ng	0.00
75) Chrysene-d12	21.34	240	102455	20.00	ng	-0.01
86) Perylene-d12	23.00	264	97259	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.17	112	34448	18.92	ng	-0.01
7) Phenol-d6	7.49	99	45289	19.76	ng	-0.01
23) Nitrobenzene-d5	9.37	82	29096	12.45	ng	-0.01
41) 2,4,6-Tribromophenol	16.77	330	9993	17.52	ng	-0.01
44) 2-Fluorobiphenyl	13.64	172	57681	12.42	ng	-0.01
78) Terphenyl-d14	20.07	244	48946	10.49	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	14.78	152	44359	6.20	ng	# 93
57) Fluorene	16.32	166	10008	2.03	ng	91
70) Phenanthrene	17.89	178	152412	21.80	ng	99
71) Anthracene	17.97	178	61913	9.12	ng	99
72) Carbazole	18.24	167	25530	3.83	ng	94
74) Fluoranthene	19.52	202	260162	36.33	ng	97
77) Pyrene	19.81	202	244921	33.22	ng	96
80) Benzo(a)anthracene	21.33	228	133465	20.45	ng	# 92
82) Chrysene	21.37	228	110990m	18.79	ng	
85) Indeno(1,2,3-cd)pyrene	24.12	276	82990	14.20	ng	# 100
87) Benzo(b)fluoranthene	22.59	252	179184m	26.60	ng	
88) Benzo(k)fluoranthene	22.61	252	61982m	10.53	ng	
89) Benzo(a)pyrene	22.93	252	108195	18.69	ng	# 91
90) Dibenzo(a,h)anthracene	24.14	278	18794m	3.56	ng	
91) Benzo(a,h,i)perylene	24.41	276	83390	15.49	ng	# 95

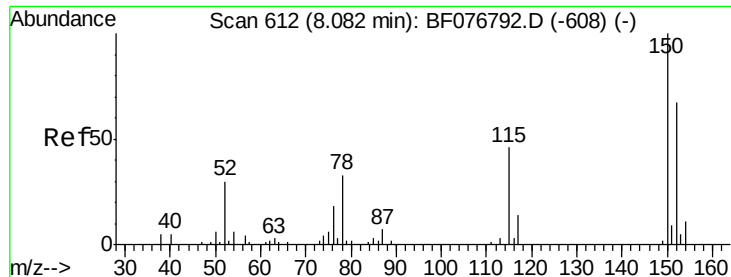
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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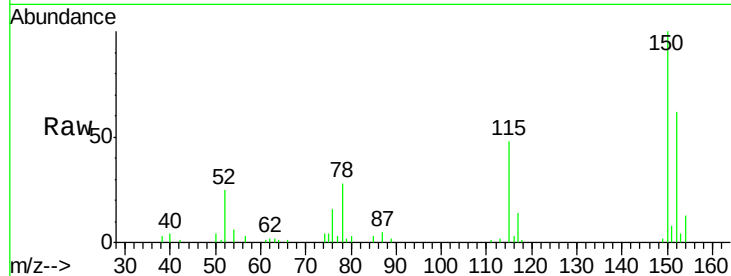


#1

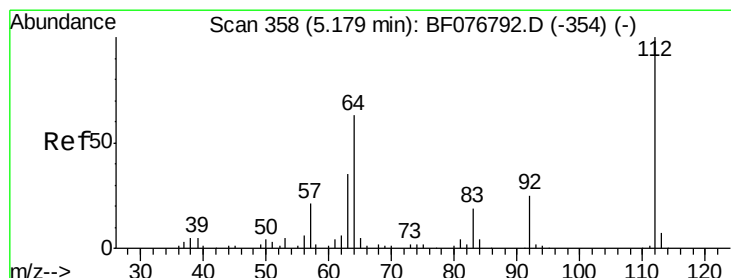
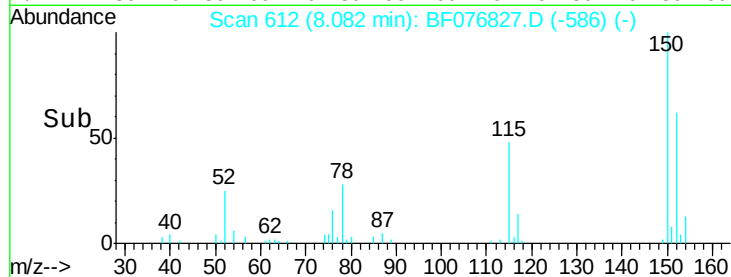
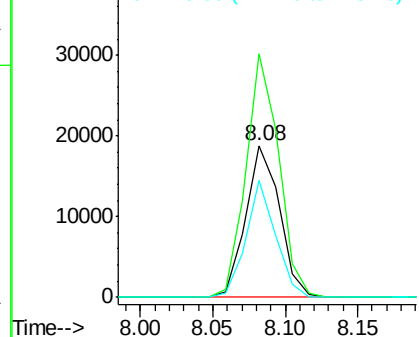
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.08 min Scan# 612
Delta R.T. 0.00 min
Lab File: BF076827.D
Acq: 13 Jan 2015 3:35

Instrument :
BNA_F
ClientSampled :
WASTE

Tot Ion:152 Resp: 30374
Ion Ratio Lower Upper
152 100
150 160.4 119.5 179.3
115 76.9 54.6 81.8



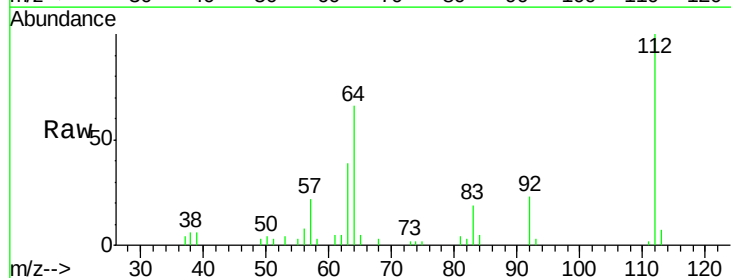
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



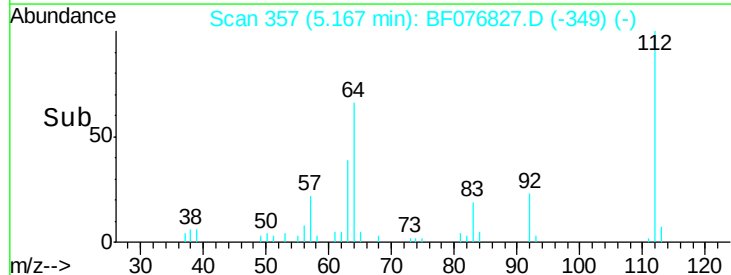
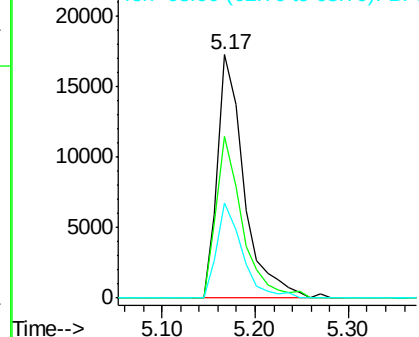
#5

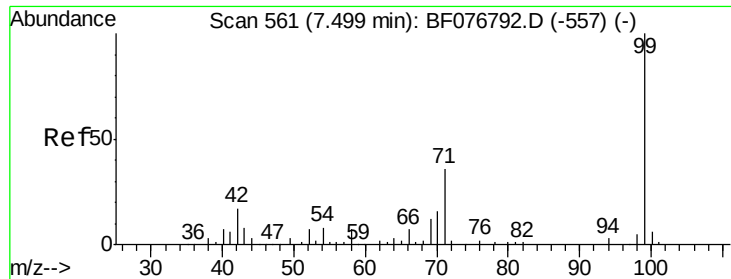
2-Fluorophenol
Concen: 18.92 ng
RT: 5.17 min Scan# 357
Delta R.T. -0.01 min
Lab File: BF076827.D
Acq: 13 Jan 2015 3:35

Tgt Ion:112 Resp: 34448
Ion Ratio Lower Upper
112 100
64 66.2 50.2 75.4
63 39.2 27.8 41.6



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: 19.76 ng

RT: 7.49 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

Instrument :

BNA_F

ClientSampleId :

WASTE

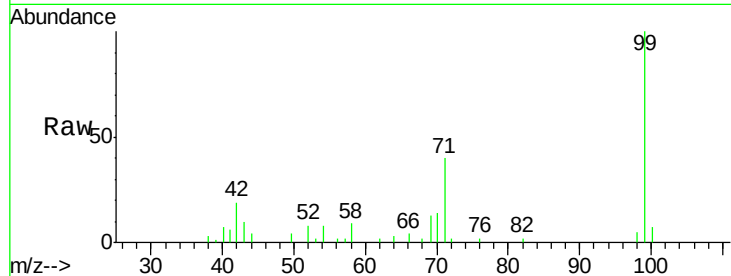
Tot Ion: 99 Resp: 45289

Ion Ratio Lower Upper

99 100

42 19.0 13.3 19.9

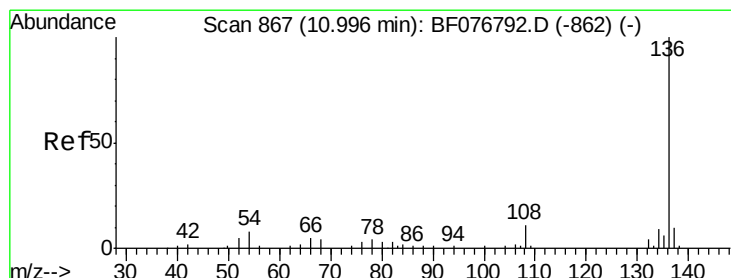
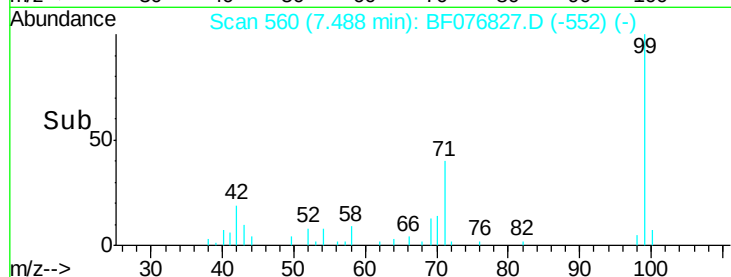
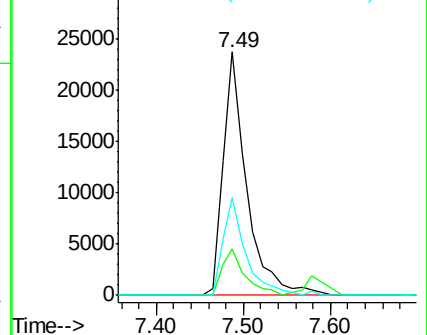
71 39.9 29.2 43.8



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: 10.99 min Scan# 866

Delta R.T. -0.01 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

Tgt Ion: 136 Resp: 129916

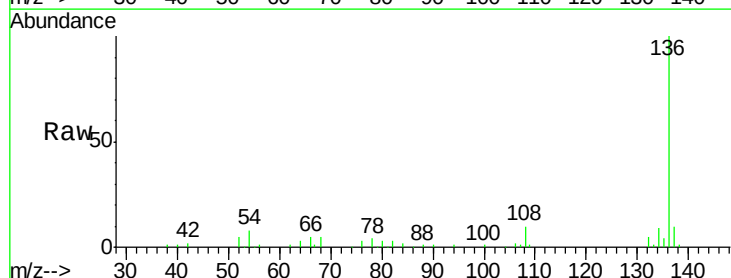
Ion Ratio Lower Upper

136 100

137 9.9 8.1 12.1

54 8.4 6.3 9.5

68 5.1 3.4 5.0#

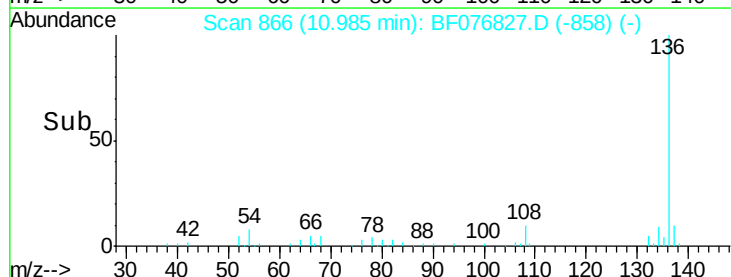
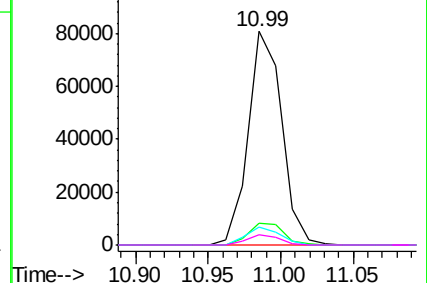


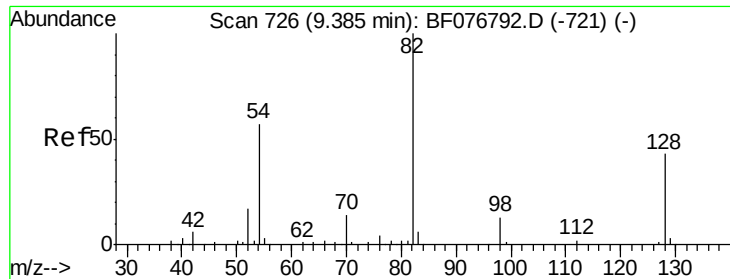
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

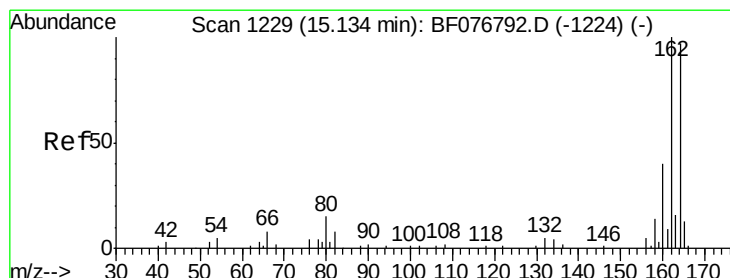
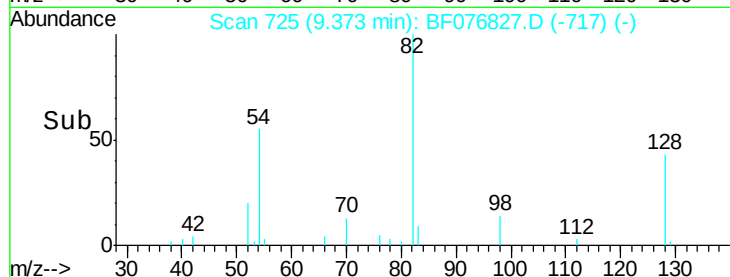
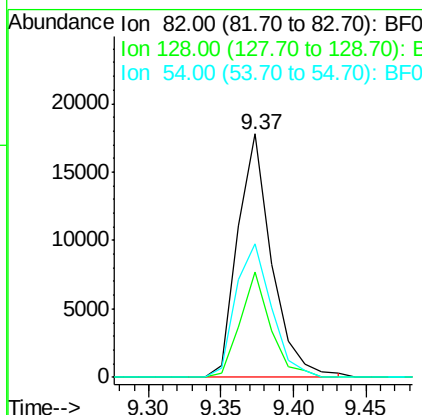
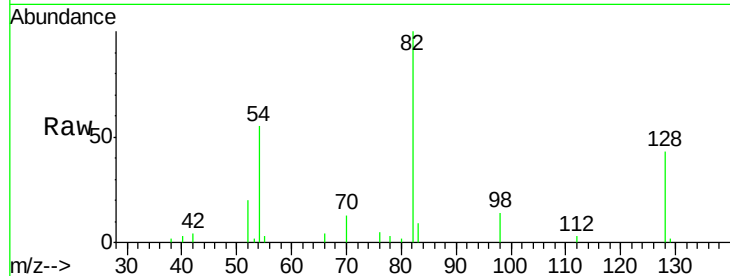




#23
 Nitrobenzene-d5
 Concen: 12.45 ng
 RT: 9.37 min Scan# 725
 Delta R.T. -0.01 min
 Lab File: BF076827.D
 Acq: 13 Jan 2015 3:35

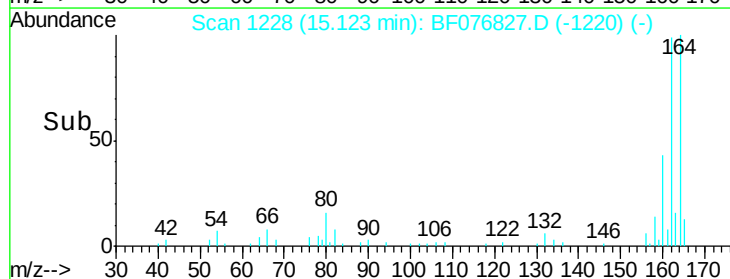
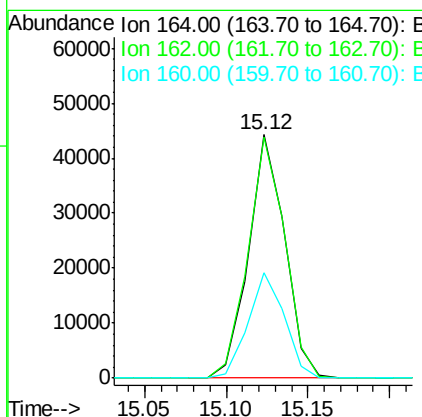
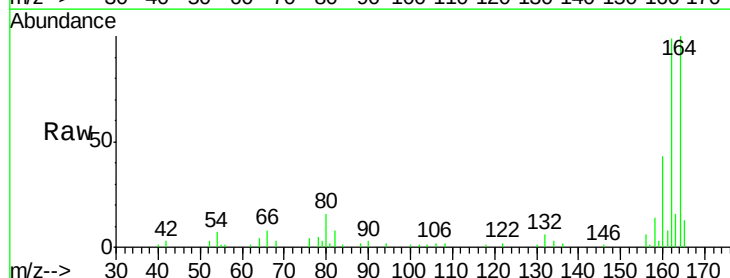
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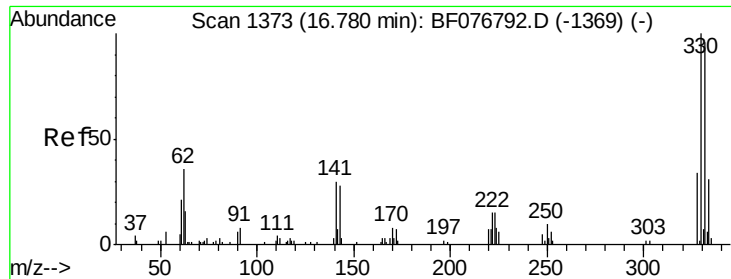
Tot Ion	82	Resp	29096
Ion Ratio	Lower	Upper	
82	100		
128	43.1	34.0	51.0
54	54.8	45.6	68.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 15.12 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: BF076827.D
 Acq: 13 Jan 2015 3:35

Tgt Ion	164	Resp	68345
Ion Ratio	Lower	Upper	
164	100		
162	98.9	82.5	123.7
160	43.1	33.1	49.7

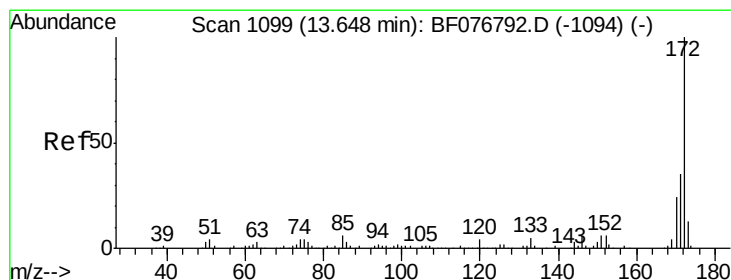
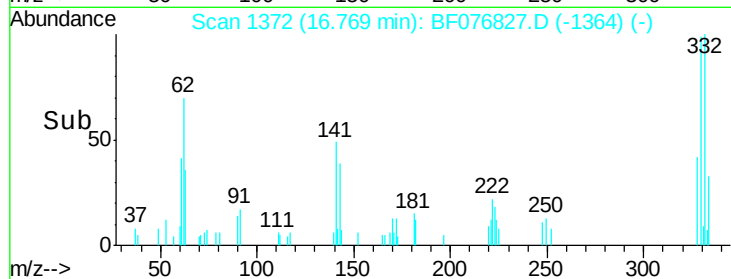
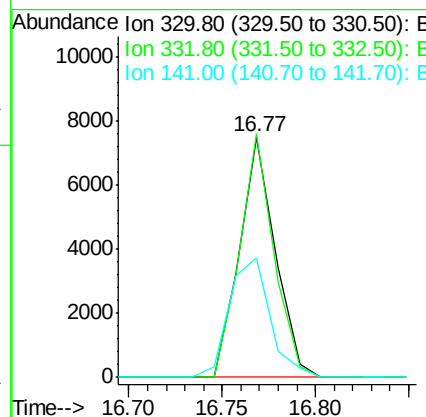
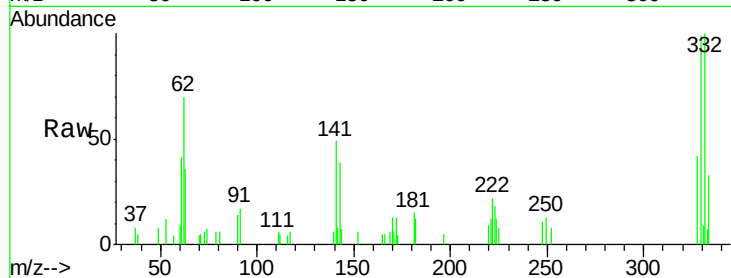




#41
 2,4,6-Tribromophenol
 Concen: 17.52 ng
 RT: 16.77 min Scan# 1372
 Delta R.T. -0.01 min
 Lab File: BF076827.D
 Acq: 13 Jan 2015 3:35

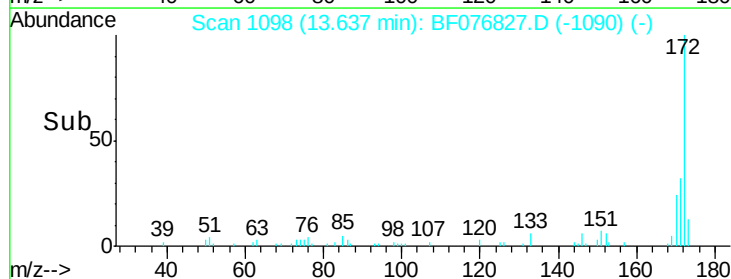
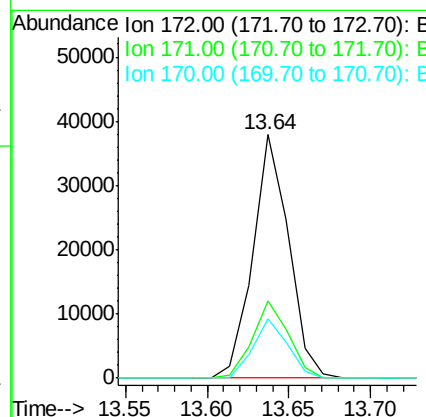
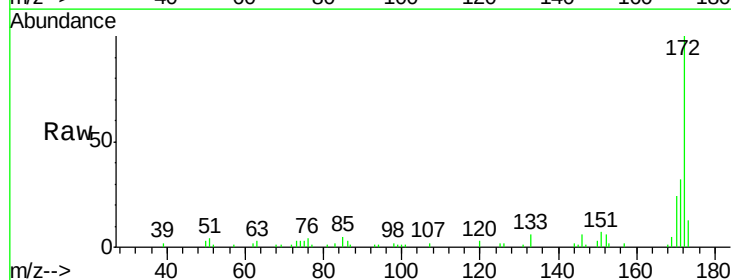
Instrument :
 BNA_F
 ClientSampleId :
 WASTE

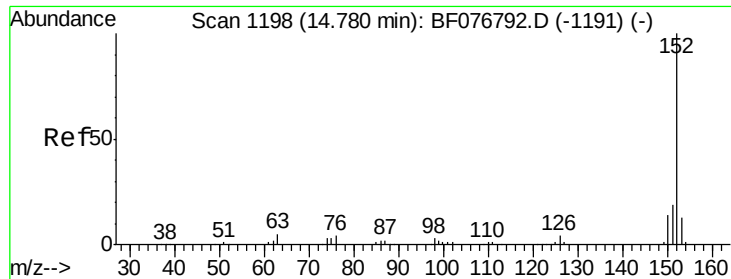
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	74.8	112.2
141	57.4	42.4	63.6



#44
 2-Fluorobiphenyl
 Concen: 12.42 ng
 RT: 13.64 min Scan# 1098
 Delta R.T. -0.01 min
 Lab File: BF076827.D
 Acq: 13 Jan 2015 3:35

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.6	27.8	41.8
170	24.4	18.8	28.2





#48

Acenaphthylene

Concen: 6.20 ng

RT: 14.78 min Scan# 1198

Delta R.T. 0.00 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

Instrument :

BNA_F

ClientSampleId :

WASTE

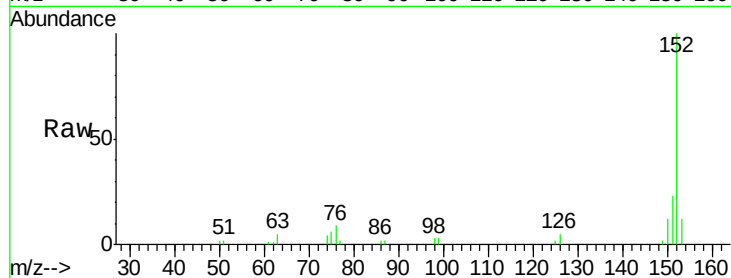
Tot Ion:152 Resp: 44359

Ion Ratio Lower Upper

152 100

151 23.5 15.2 22.8#

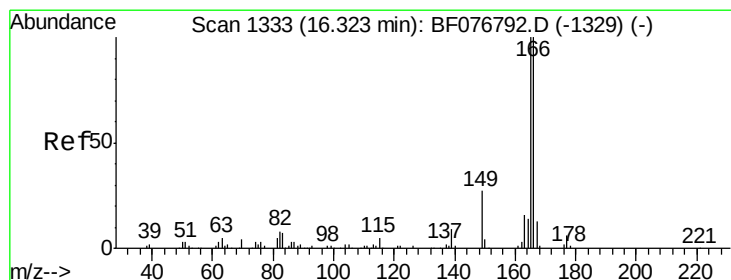
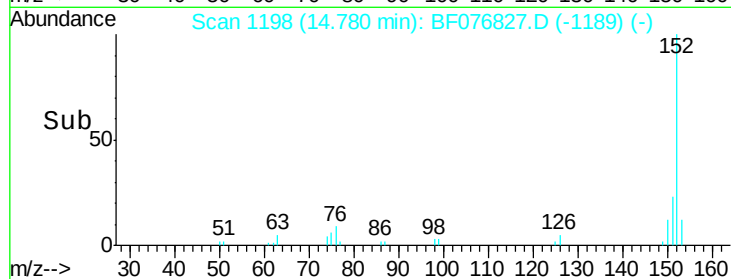
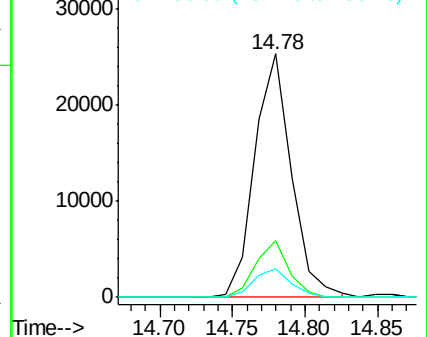
153 11.9 10.5 15.7



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



#57

Fluorene

Concen: 2.03 ng

RT: 16.32 min Scan# 1333

Delta R.T. 0.00 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

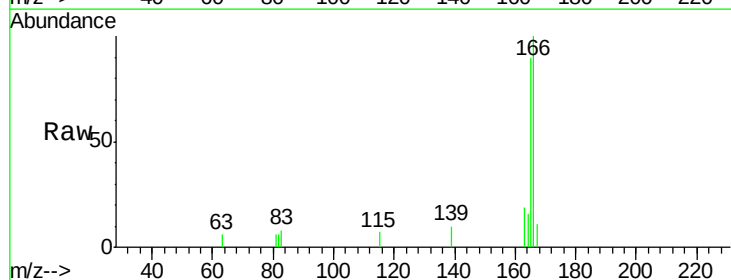
Tgt Ion:166 Resp: 10008

Ion Ratio Lower Upper

166 100

165 90.4 79.6 119.4

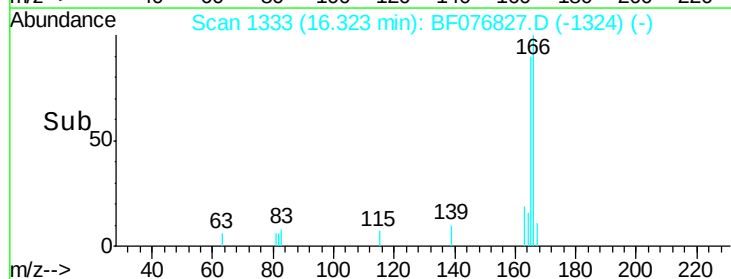
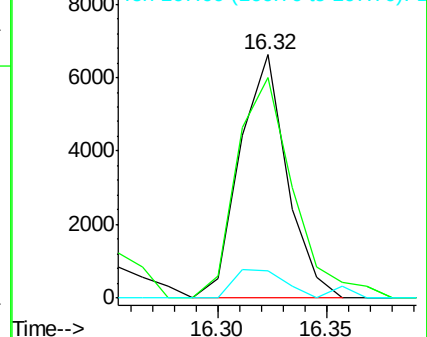
167 11.1 10.2 15.2

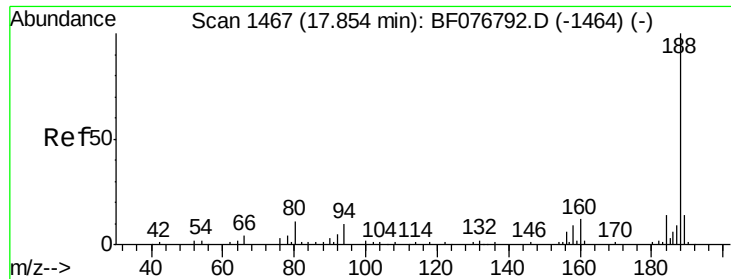


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

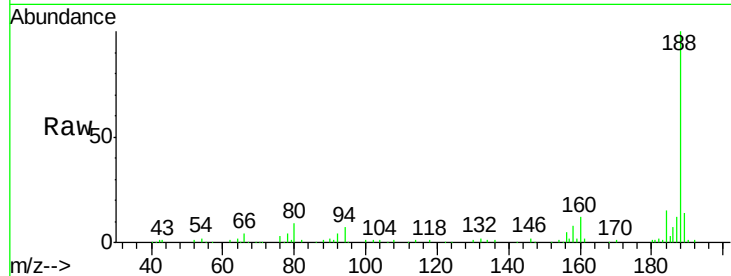




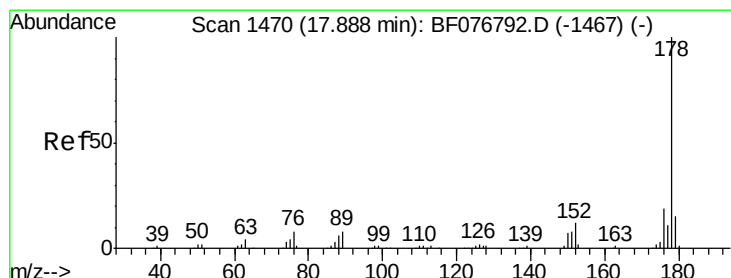
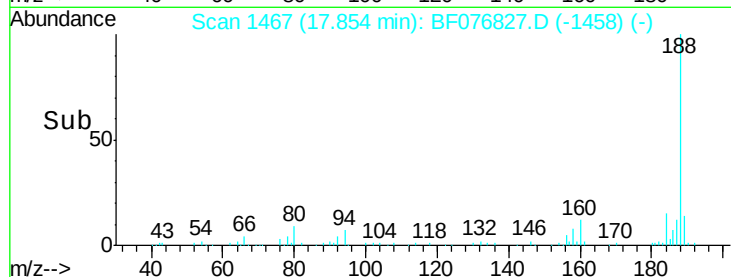
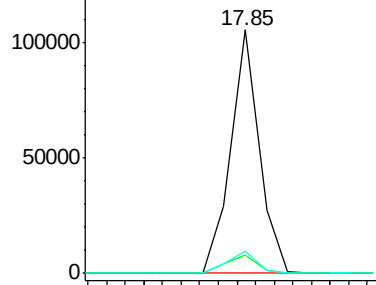
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.85 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: BF076827.D
 Acq: 13 Jan 2015 3:35

Instrument :
 BNA_F
 ClientSampleId :
 WASTE

Tot Ion:188 Resp: 112191
 Ion Ratio Lower Upper
 188 100
 94 7.5 7.8 11.6#
 80 9.2 8.6 13.0

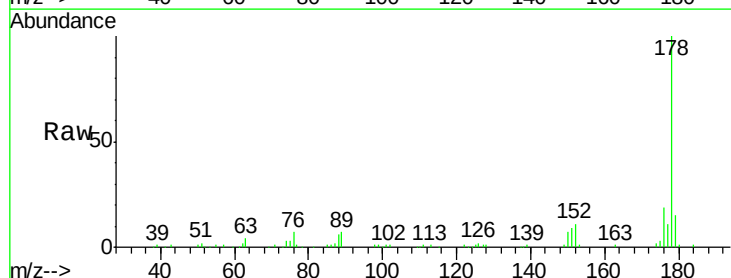


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

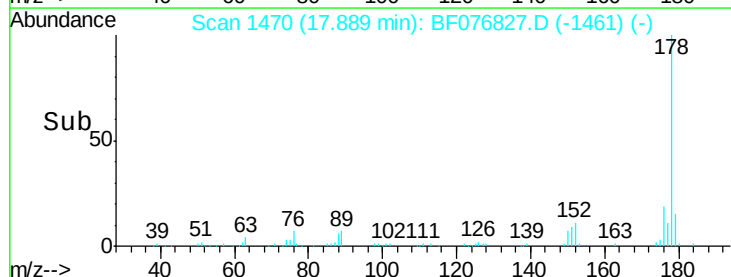
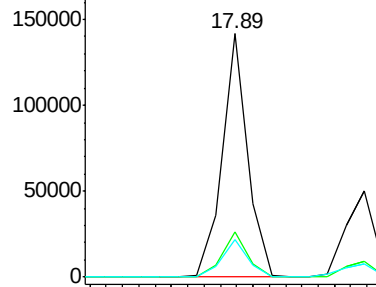


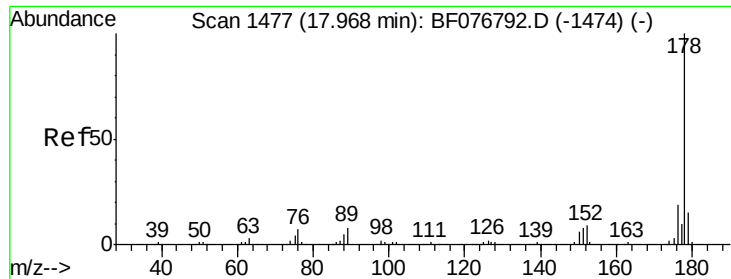
#70
 Phenanthrene
 Concen: 21.80 ng
 RT: 17.89 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: BF076827.D
 Acq: 13 Jan 2015 3:35

Tgt Ion:178 Resp: 152412
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.2 22.8
 179 15.2 11.8 17.8



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

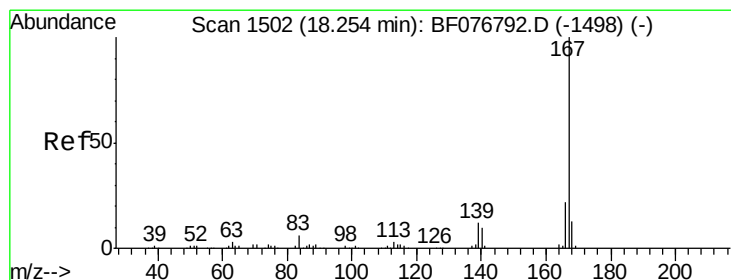
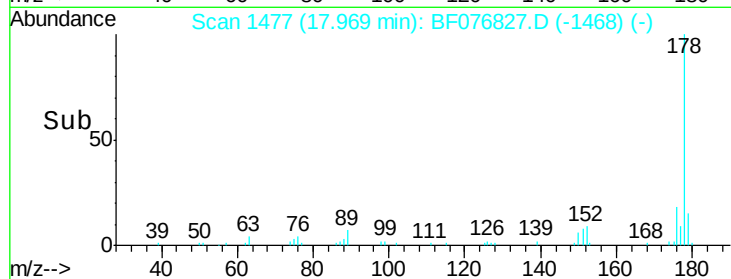
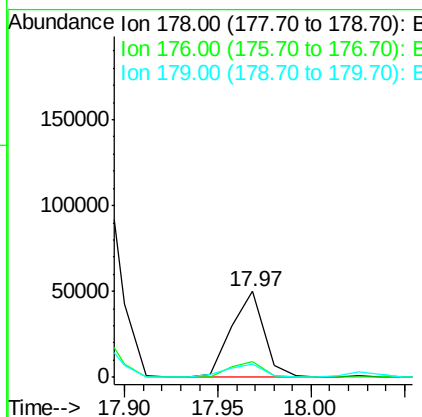
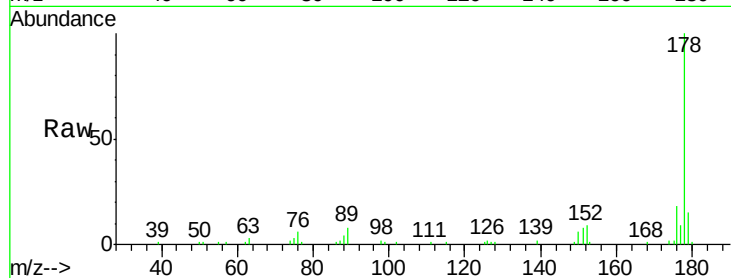




#71
 Anthracene
 Concen: 9.12 ng
 RT: 17.97 min Scan# 1477
 Delta R.T. 0.00 min
 Lab File: BF076827.D
 Acq: 13 Jan 2015 3:35

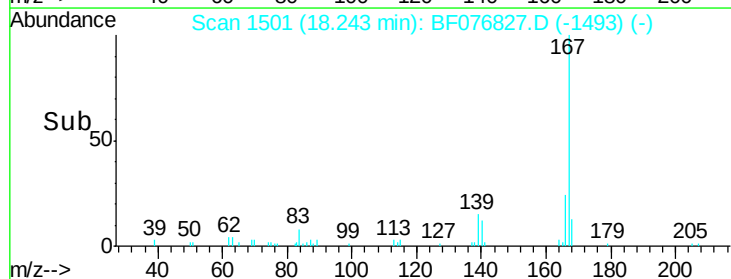
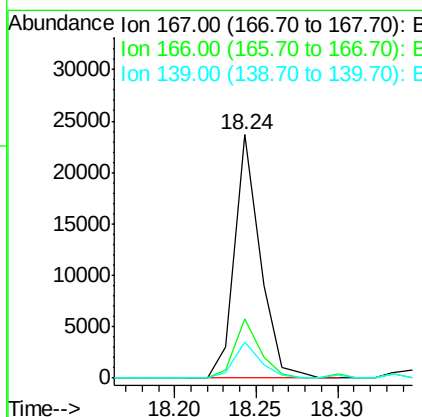
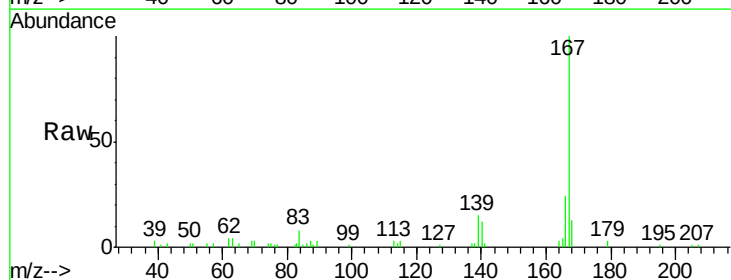
Instrument :
 BNA_F
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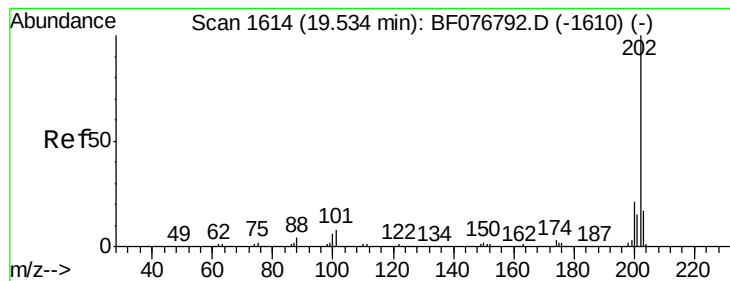
Tot Ion:178 Resp: 61913
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.3 22.9
 179 15.2 12.2 18.4



#72
 Carbazole
 Concen: 3.83 ng
 RT: 18.24 min Scan# 1501
 Delta R.T. -0.01 min
 Lab File: BF076827.D
 Acq: 13 Jan 2015 3:35

Tgt Ion:167 Resp: 25530
 Ion Ratio Lower Upper
 167 100
 166 24.2 17.2 25.8
 139 14.9 10.0 15.0





#74

Fluoranthene

Concen: 36.33 ng

RT: 19.52 min Scan# 1613

Delta R.T. -0.01 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

Instrument :

BNA_F

ClientSampleId :

WASTE

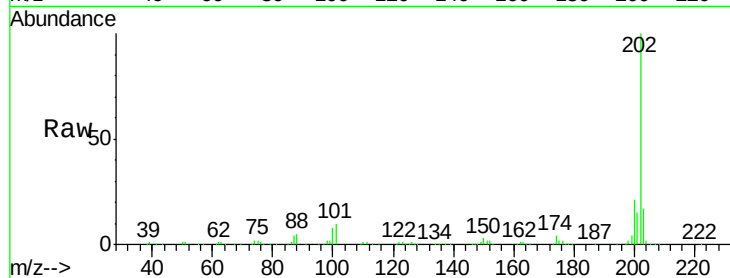
Tot Ion:202 Resp: 260162

Ion Ratio Lower Upper

202 100

101 10.4 0.0 28.0

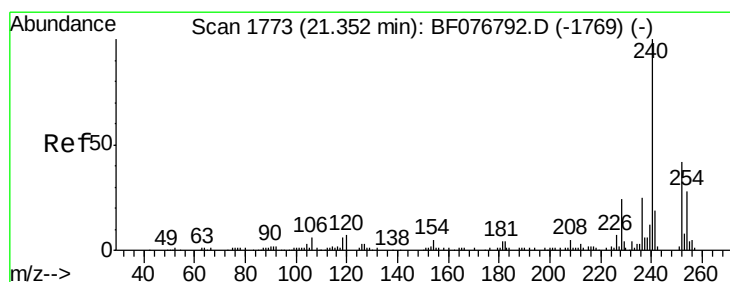
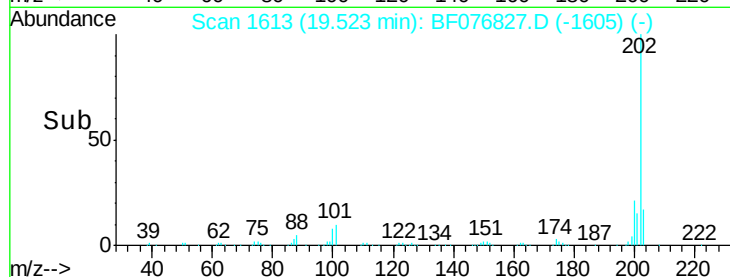
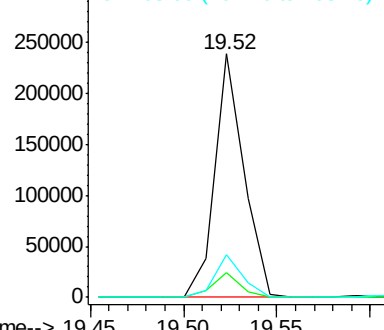
203 17.5 0.0 37.2



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: 21.34 min Scan# 1772

Delta R.T. -0.01 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

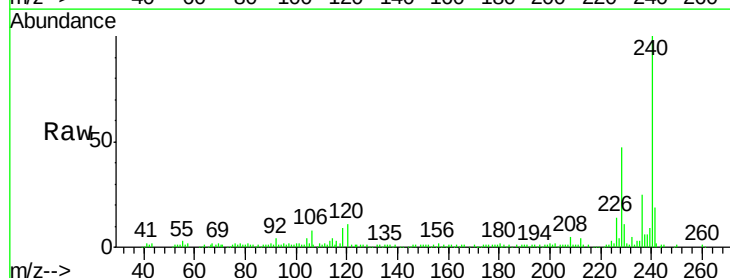
Tgt Ion:240 Resp: 102455

Ion Ratio Lower Upper

240 100

120 11.3 5.7 8.5#

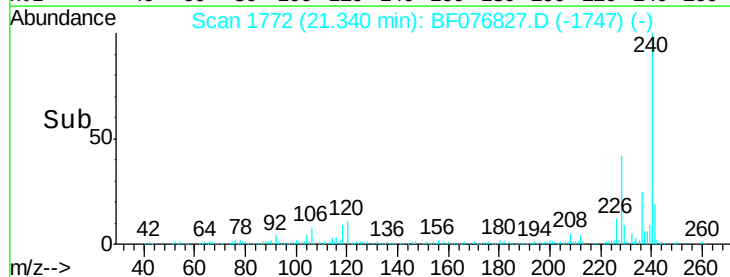
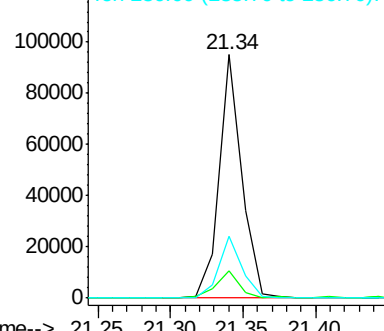
236 25.4 19.7 29.5

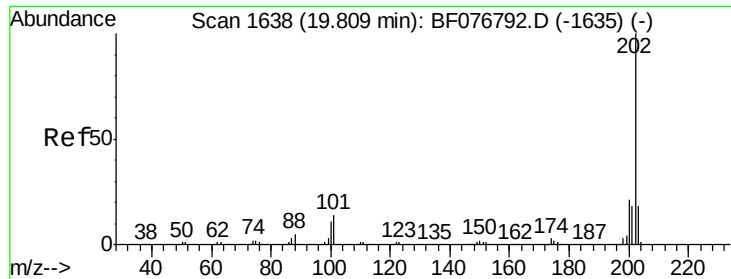


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 33.22 ng

RT: 19.81 min Scan# 1638

Delta R.T. 0.00 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

Instrument :

BNA_F

ClientSampleId :

WASTE

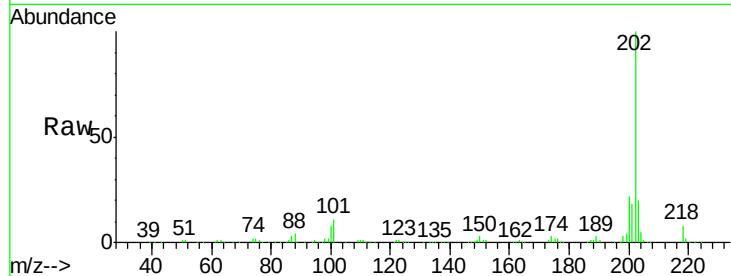
Tot Ion:202 Resp: 244921

Ion Ratio Lower Upper

202 100

200 22.2 16.6 25.0

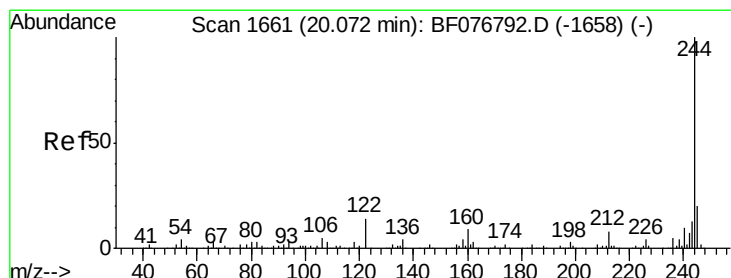
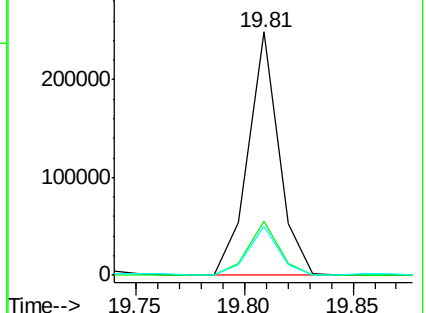
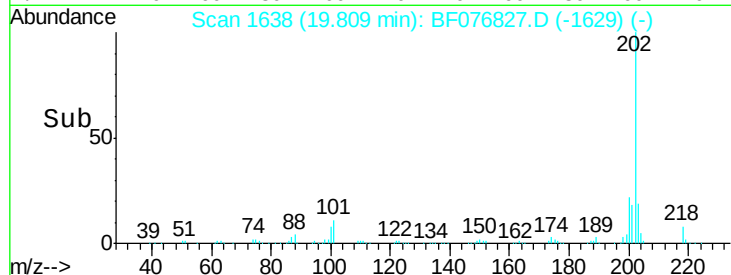
203 20.3 14.6 22.0



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: 10.49 ng

RT: 20.07 min Scan# 1661

Delta R.T. 0.00 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

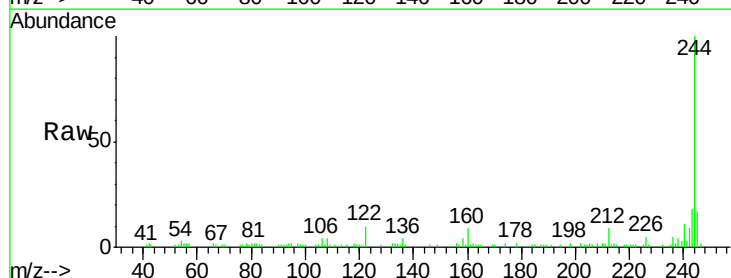
Tgt Ion:244 Resp: 48946

Ion Ratio Lower Upper

244 100

212 8.8 6.2 9.2

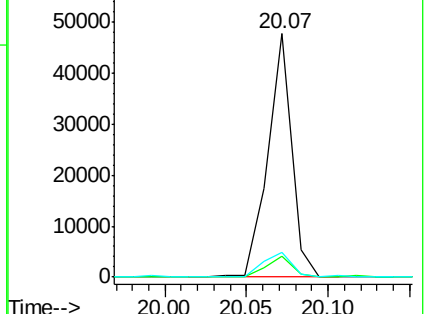
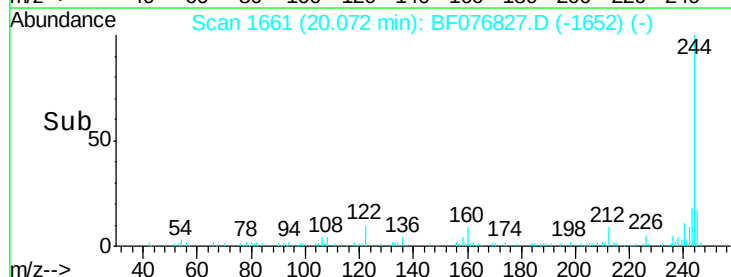
122 10.4 11.3 16.9#

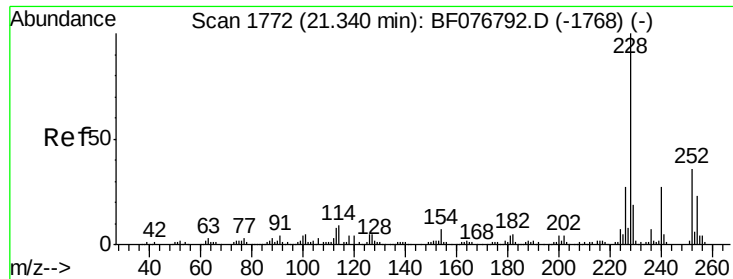


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

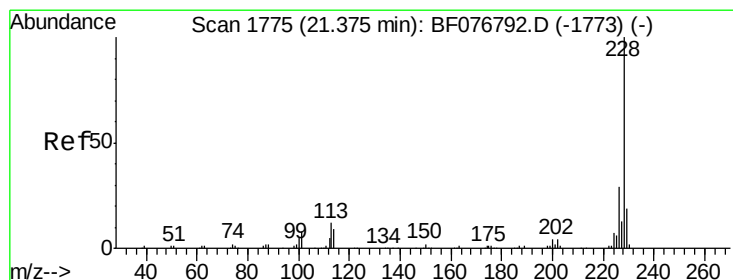
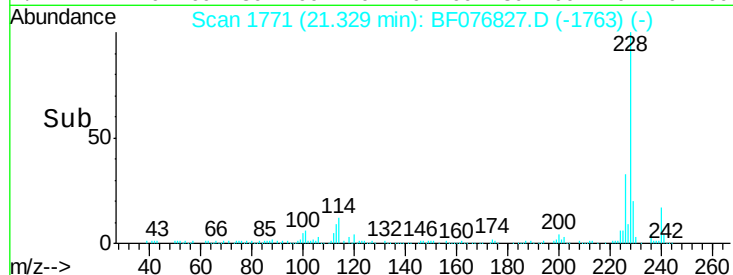
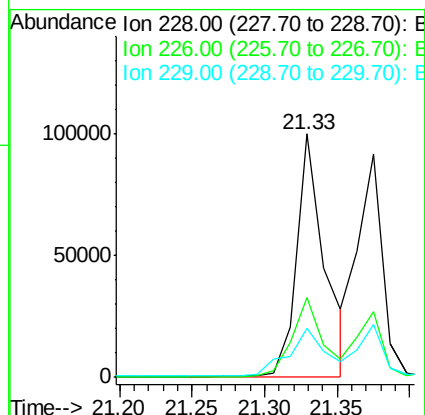
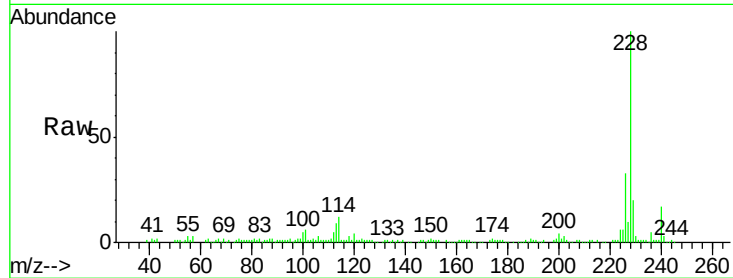




#80
Benzo(a)anthracene
Concen: 20.45 ng
RT: 21.33 min Scan# 1771
Delta R.T. -0.01 min
Lab File: BF076827.D
Acq: 13 Jan 2015 3:35

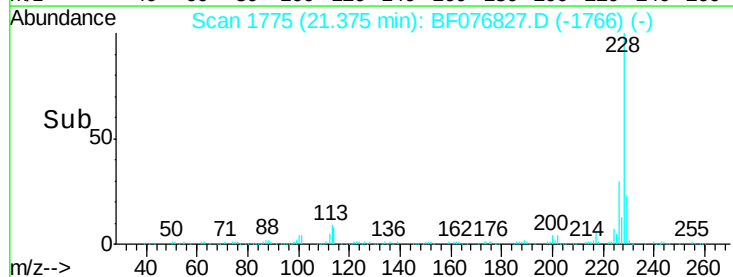
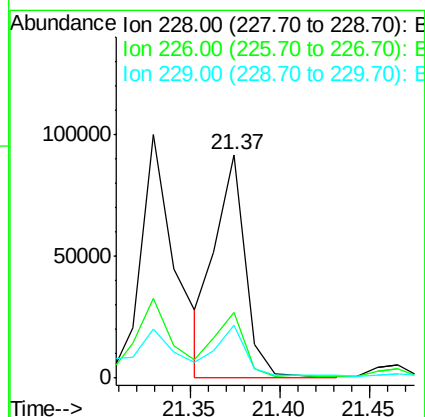
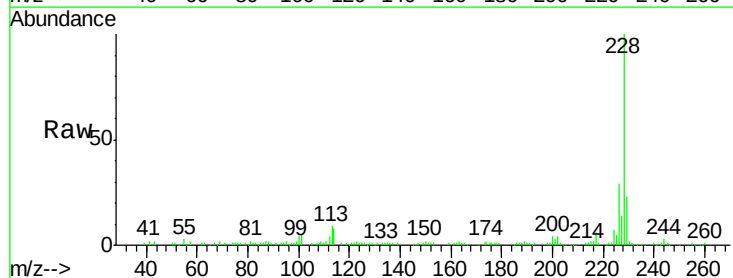
Instrument :
BNA_F
ClientSampleId :
WASTE

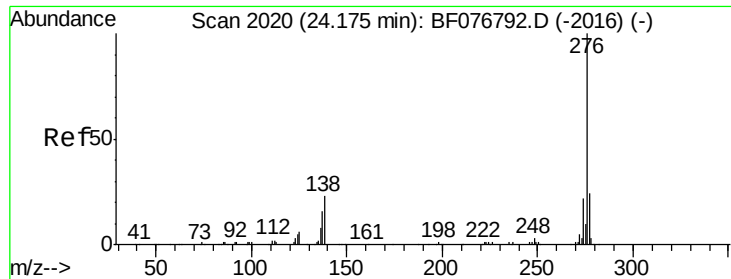
Tot Ion:228 Resp: 133465
Ion Ratio Lower Upper
228 100
226 32.6 21.4 32.0#
229 20.4 15.0 22.4



#82
Chrysene
Concen: 18.79 ng m
RT: 21.37 min Scan# 1775
Delta R.T. 0.00 min
Lab File: BF076827.D
Acq: 13 Jan 2015 3:35

Tgt Ion:228 Resp: 110990
Ion Ratio Lower Upper
228 100
226 29.5 23.3 34.9
229 23.5 14.6 22.0#

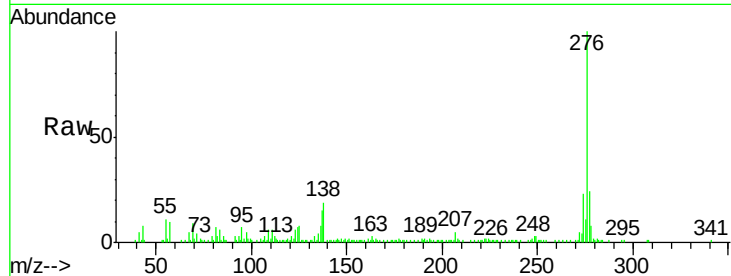




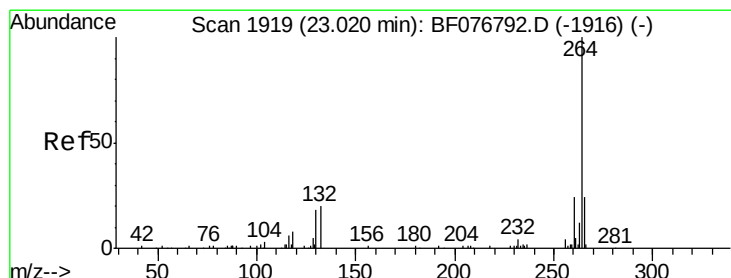
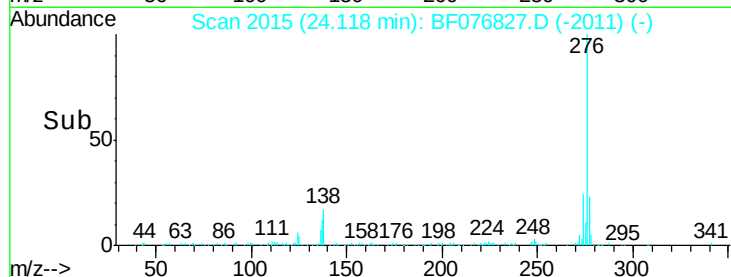
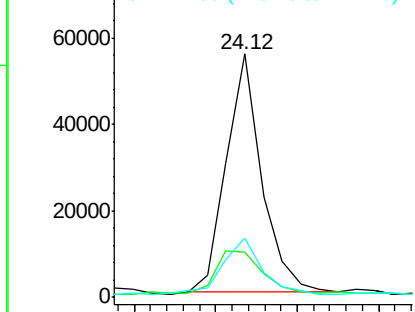
#85
Indeno(1,2,3-cd)pyrene
Concen: 14.20 ng
RT: 24.12 min Scan# 2015
Delta R.T. -0.06 min
Lab File: BF076827.D
Acq: 13 Jan 2015 3:35

Instrument :
BNA_F
ClientSampleId :
WASTE

Tot Ion:276 Resp: 82990
Ion Ratio Lower Upper
276 100
138 25.5 0.0 0.0#
277 25.1 0.0 0.0#

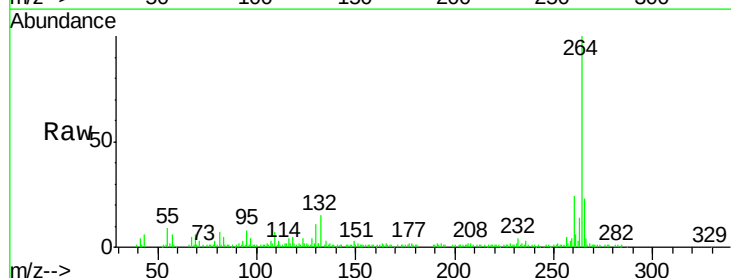


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

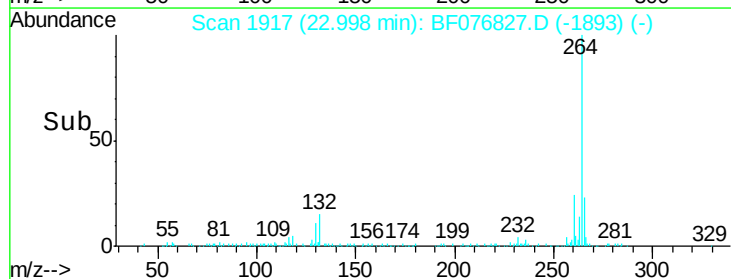
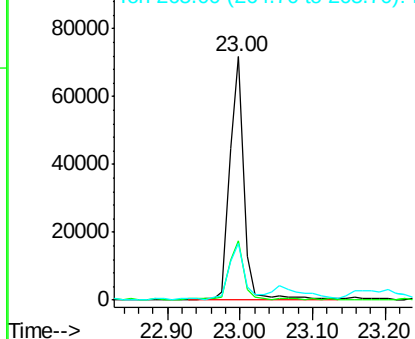


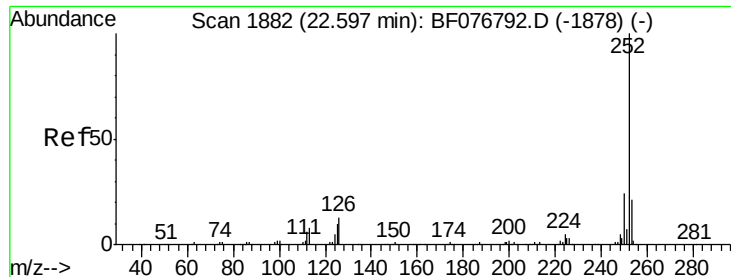
#86
Perylene-d12
Concen: 20.00 ng
RT: 23.00 min Scan# 1917
Delta R.T. -0.02 min
Lab File: BF076827.D
Acq: 13 Jan 2015 3:35

Tgt Ion:264 Resp: 97259
Ion Ratio Lower Upper
264 100
260 24.2 19.4 29.0
265 23.1 18.9 28.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 26.60 ng m

RT: 22.59 min Scan# 1881

Delta R.T. -0.01 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

Instrument :

BNA_F

ClientSampleId :

WASTE

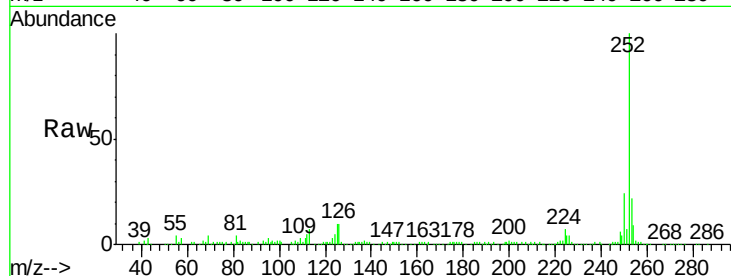
Tot Ion:252 Resp: 179184

Ion Ratio Lower Upper

252 100

253 22.0 16.6 25.0

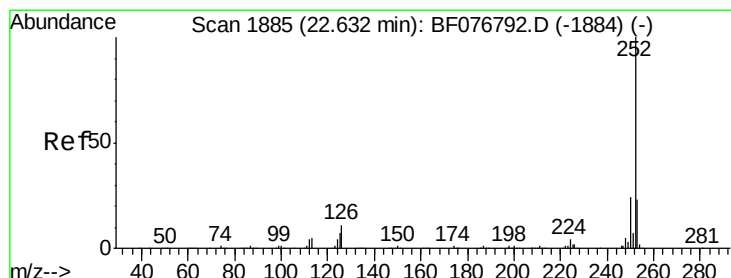
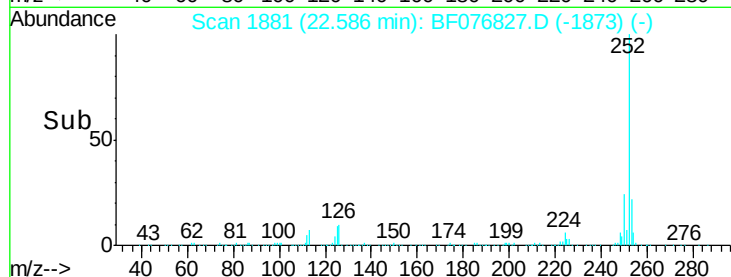
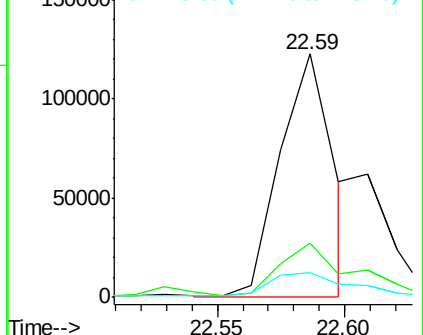
125 10.0 8.1 12.1



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 10.53 ng m

RT: 22.61 min Scan# 1883

Delta R.T. -0.02 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

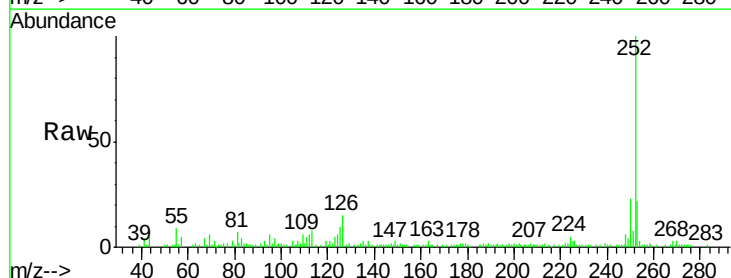
Tgt Ion:252 Resp: 61982

Ion Ratio Lower Upper

252 100

253 21.7 17.7 26.5

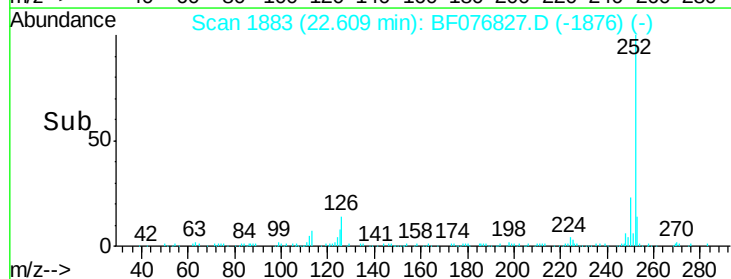
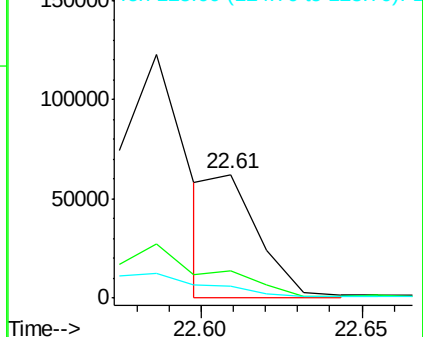
125 9.8 7.5 11.3

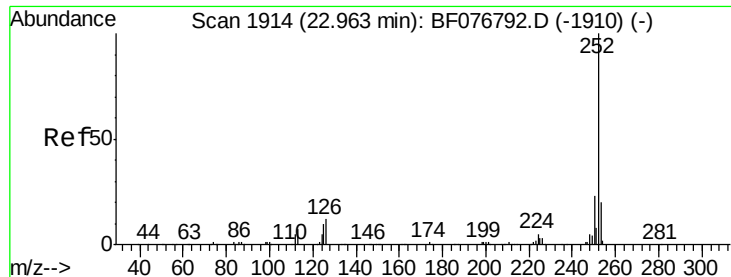


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

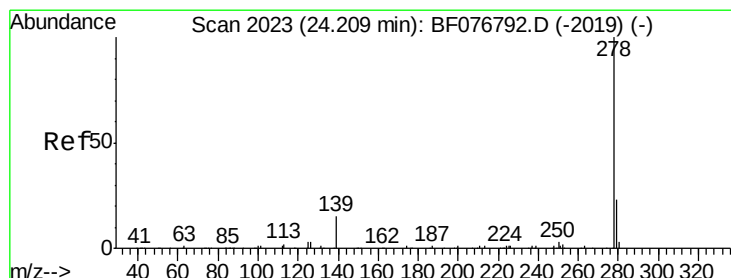
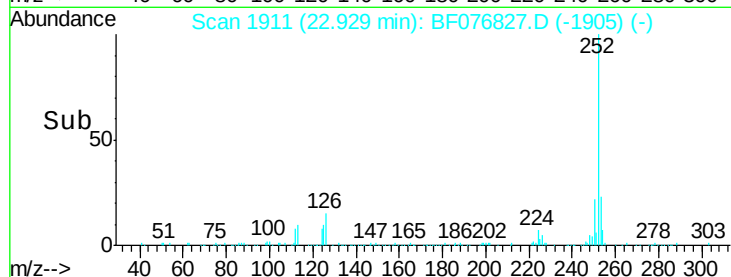
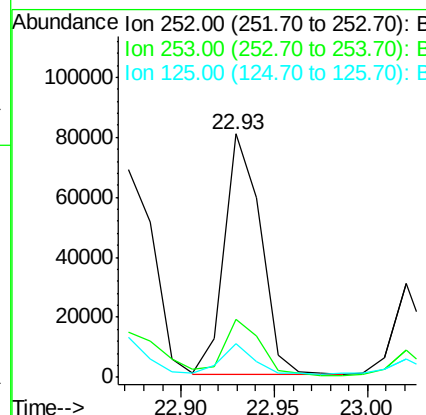
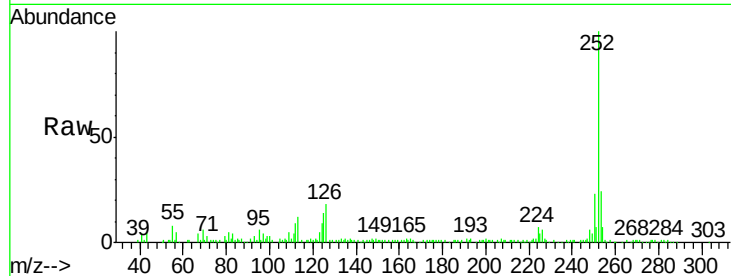




#89
Benzo(a)pyrene
Concen: 18.69 ng
RT: 22.93 min Scan# 1911
Delta R.T. -0.03 min
Lab File: BF076827.D
Acq: 13 Jan 2015 3:35

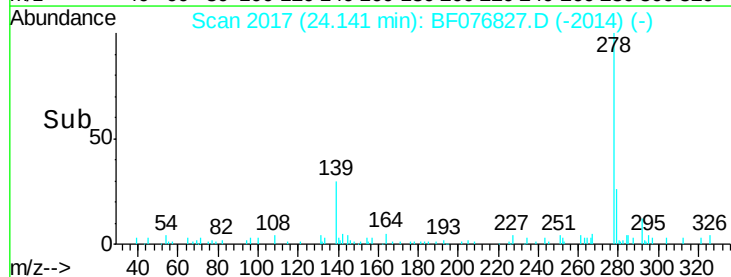
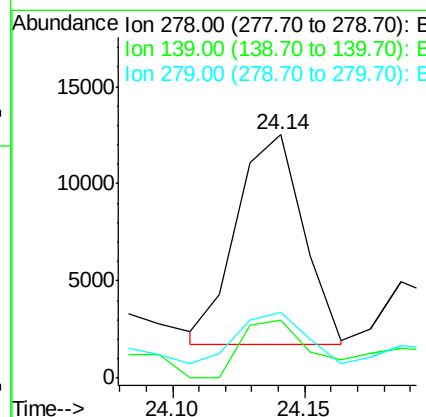
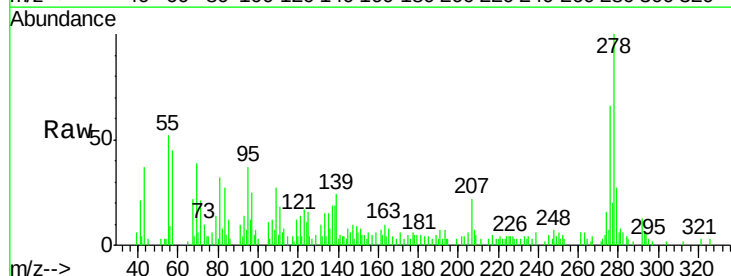
Instrument :
BNA_F
ClientSampleId :
WASTE

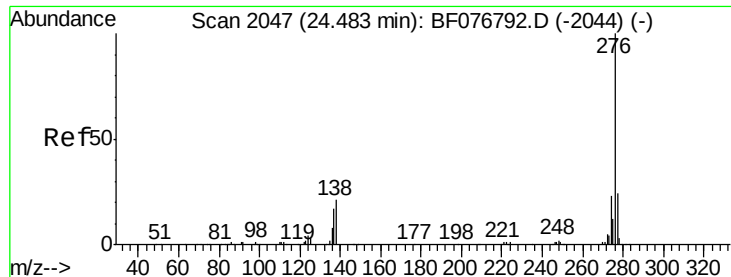
Tot Ion:252 Resp: 108195
Ion Ratio Lower Upper
252 100
253 23.9 16.2 24.4
125 13.8 7.8 11.6#



#90
Dibenzo(a,h)anthracene
Concen: 3.56 ng m
RT: 24.14 min Scan# 2017
Delta R.T. -0.07 min
Lab File: BF076827.D
Acq: 13 Jan 2015 3:35

Tgt Ion:278 Resp: 18794
Ion Ratio Lower Upper
278 100
139 24.0 12.2 18.4#
279 26.8 17.9 26.9





#91

Benzo(a,h,i)perylene

Concen: 15.49 ng

RT: 24.41 min Scan# 2041

Delta R.T. -0.07 min

Lab File: BF076827.D

Acq: 13 Jan 2015 3:35

Instrument :

BNA_F

ClientSampleId :

WASTE

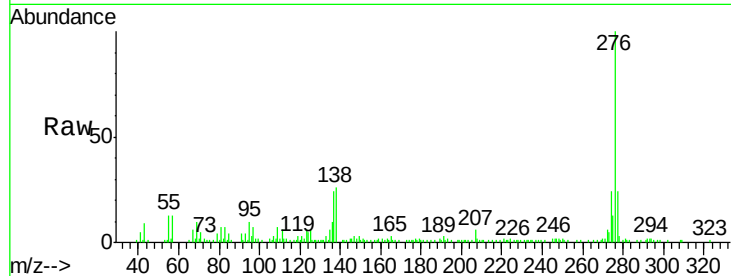
Tot Ion:276 Resp: 83390

Ion Ratio Lower Upper

276 100

277 23.7 19.0 28.6

138 25.5 16.7 25.1#



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

