

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\
 Data File : BF079333.D
 Acq On : 19 May 2015 5:24
 Operator : TP/IZ
 Sample : G2270-06
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-14

Quant Time: May 19 07:17:33 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 19 06:58:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.16	152	46929	20.00	ng	0.00
21) Naphthalene-d8	8.74	136	195647	20.00	ng	0.00
38) Acenaphthene-d10	10.91	164	97448	20.00	ng	0.00
63) Phenanthrene-d10	12.77	188	192307	20.00	ng	0.01
75) Chrysene-d12	16.05	240	203439	20.00	ng	-0.01
86) Perylene-d12	17.78	264	208120	20.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	342971m	125.80	ng	0.01
7) Phenol-d6	6.74	99	427921	118.75	ng	0.00
23) Nitrobenzene-d5	7.86	82	251990	74.02	ng	0.00
41) 2,4,6-Tribromophenol	11.90	330	140630	133.40	ng	0.00
44) 2-Fluorobiphenyl	10.09	172	526427	75.26	ng	0.00
78) Terphenyl-d14	14.75	244	620665	73.04	ng	0.00

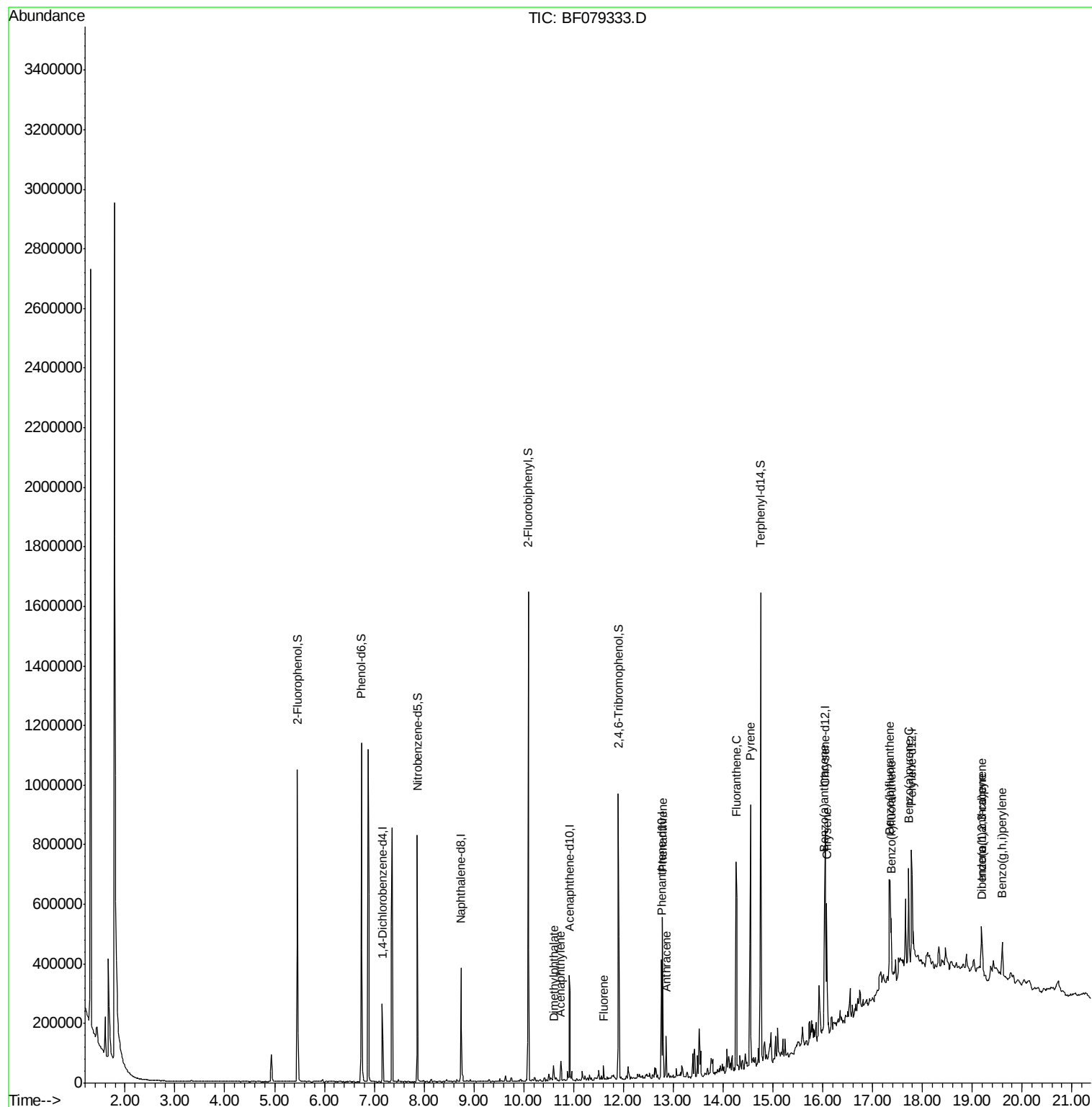
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	10.74	152	30711	3.10	ng	99
49) Dimethylphthalate	10.60	163	28566	3.99	ng	# 97
57) Fluorene	11.60	166	15456	2.20	ng	98
70) Phenanthrene	12.79	178	208946	19.42	ng	100
71) Anthracene	12.86	178	65774	6.23	ng	99
74) Fluoranthene	14.26	202	406938	36.30	ng	99
77) Pyrene	14.55	202	390063	33.27	ng	100
80) Benzo(a)anthracene	16.03	228	211732m	19.01	ng	
82) Chrysene	16.08	228	185560	17.32	ng	97
85) Indeno(1,2,3-cd)pyrene	19.19	276	108842	7.97	ng	93
87) Benzo(b)fluoranthene	17.35	252	243008m	21.33	ng	
88) Benzo(k)fluoranthene	17.37	252	80816m	7.33	ng	
89) Benzo(a)pyrene	17.73	252	171992	16.40	ng	99
90) Dibenzo(a,h)anthracene	19.20	278	28008	2.51	ng	# 79
91) Benzo(a,h,i)perylene	19.60	276	105250	9.42	ng	# 93

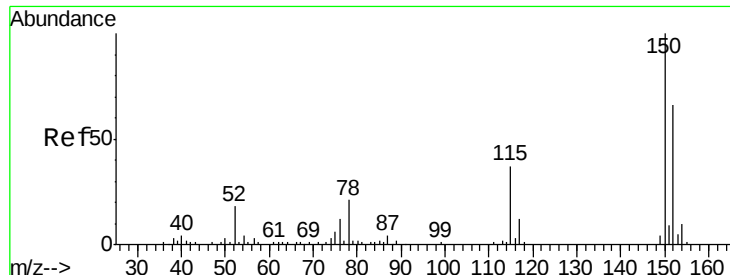
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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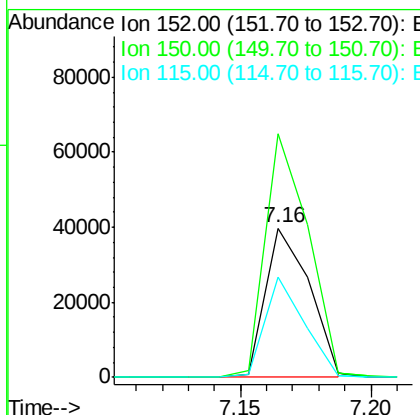
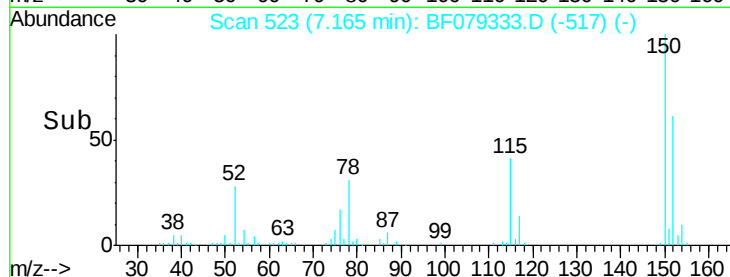
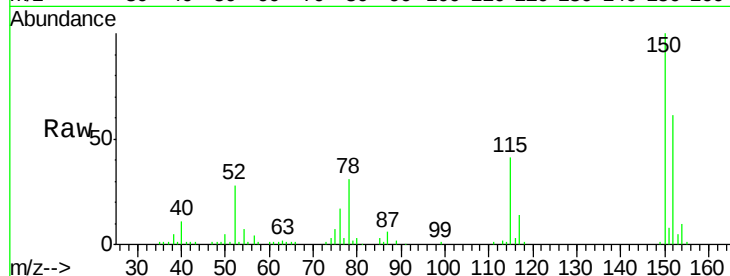




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.16 min Scan# 523
 Delta R.T. -0.00 min
 Lab File: BF079333.D
 Acq: 19 May 2015 5:24

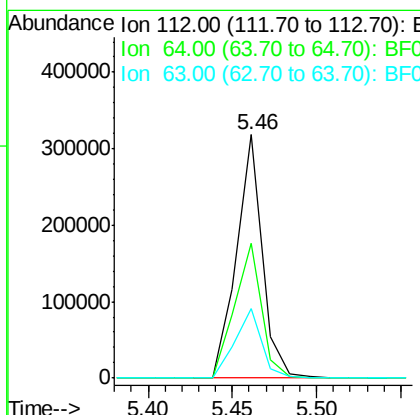
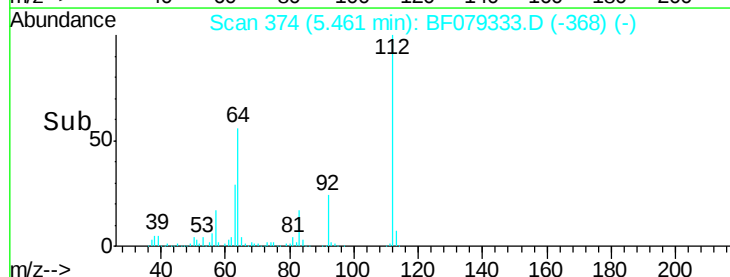
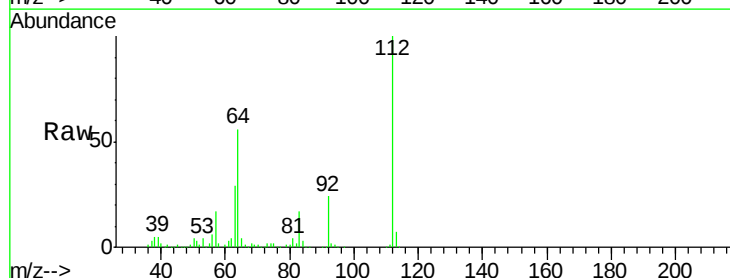
Instrument :
 BNA_F
 ClientSampleId :
 SB-14

Tot Ion:	152	Resp:	46929
Ion	Ratio	Lower	Upper
152	100		
150	163.0	123.8	185.8
115	66.8	49.4	74.0



#5
 2-Fluorophenol
 Concen: 125.80 ng m
 RT: 5.46 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: BF079333.D
 Acq: 19 May 2015 5:24

Tgt Ion:	112	Resp:	342971
Ion	Ratio	Lower	Upper
112	100		
64	55.6	44.2	66.2
63	28.5	22.7	34.1





#7

Phenol-d6

Concen: 118.75 ng

RT: 6.74 min Scan# 486

Delta R.T. -0.00 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Instrument :

BNA_F

ClientSampleId :

SB-14

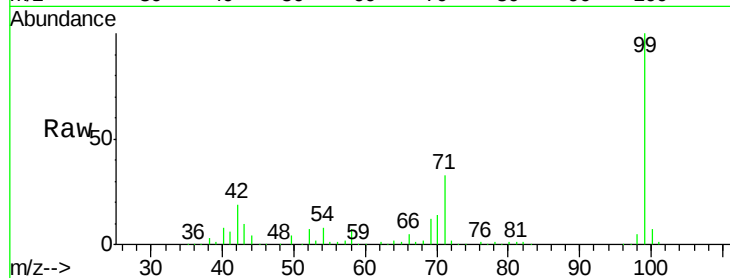
Tot Ion: 99 Resp: 427921

Ion Ratio Lower Upper

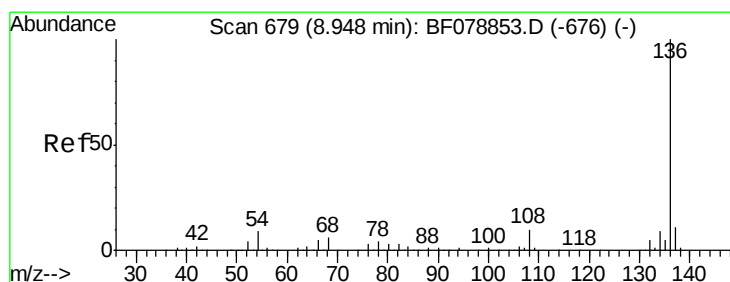
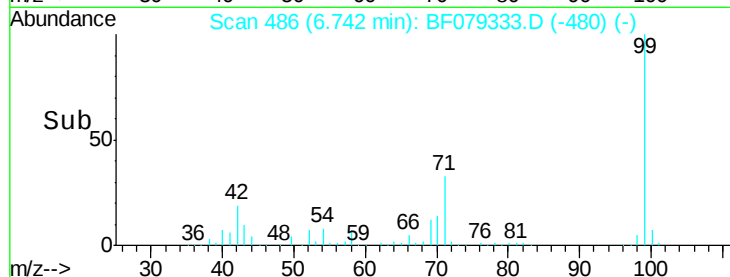
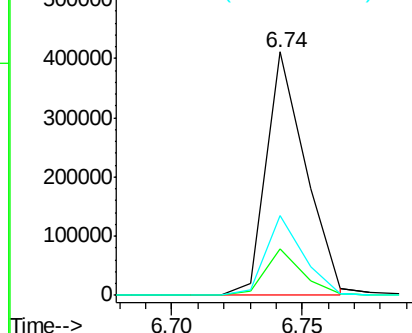
99 100

42 19.0 17.1 25.7

71 32.8 26.3 39.5



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: 8.74 min Scan# 661

Delta R.T. -0.00 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Tgt Ion: 136 Resp: 195647

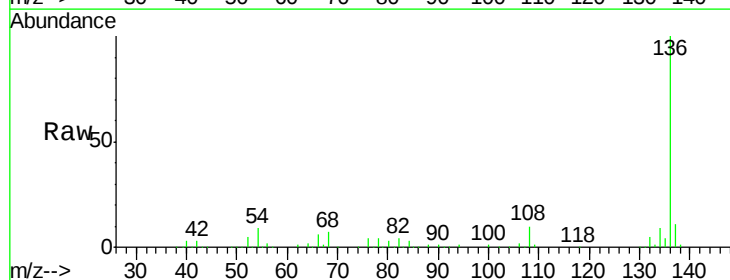
Ion Ratio Lower Upper

136 100

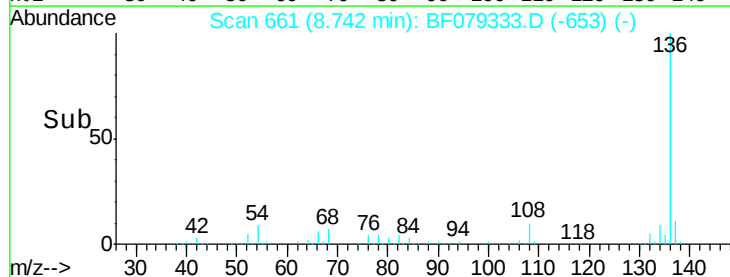
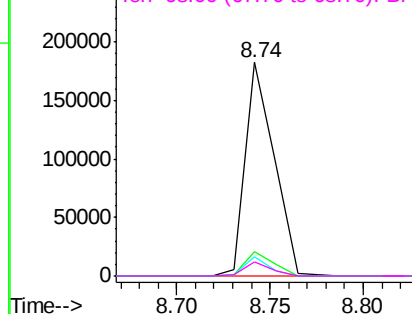
137 11.2 8.8 13.2

54 9.2 6.9 10.3

68 6.9 4.9 7.3



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

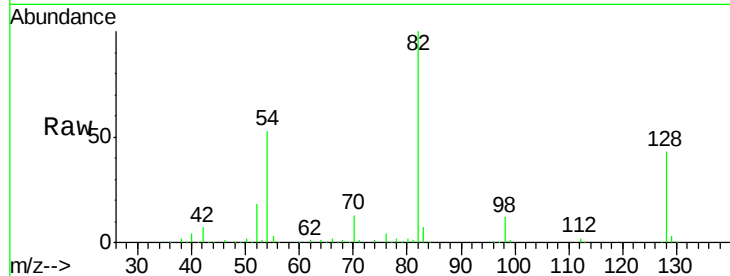




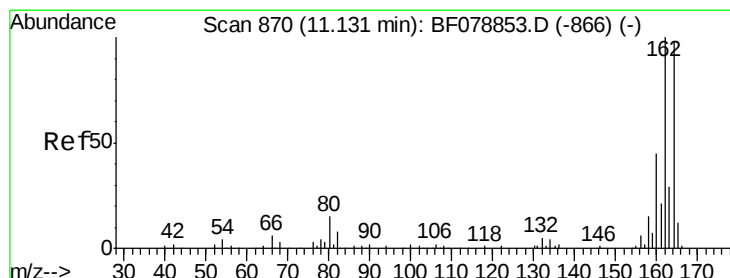
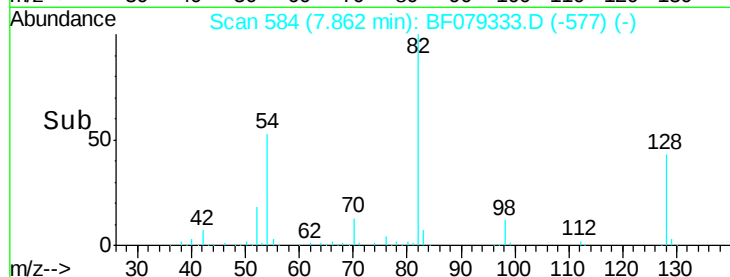
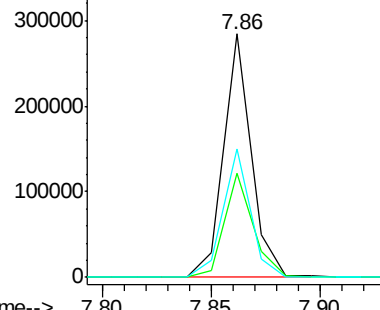
#23
Nitrobenzene-d5
Concen: 74.02 ng
RT: 7.86 min Scan# 584
Delta R.T. -0.00 min
Lab File: BF079333.D
Acq: 19 May 2015 5:24

Instrument :
BNA_F
ClientSampleId :
SB-14

Tot Ion: 82 Resp: 251990
Ion Ratio Lower Upper
82 100
128 42.5 29.7 44.5
54 52.8 46.2 69.4

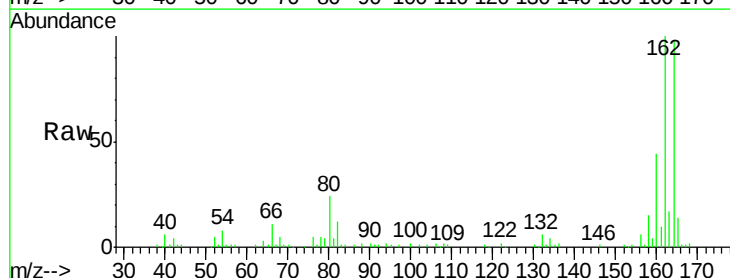


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): B

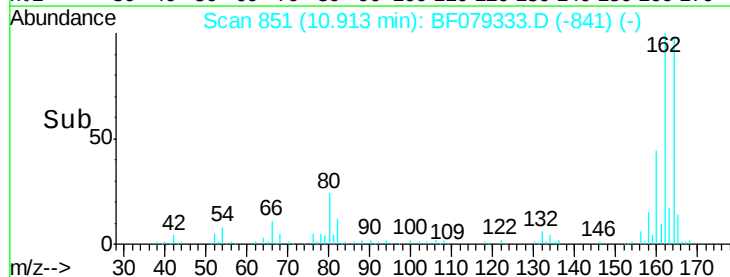
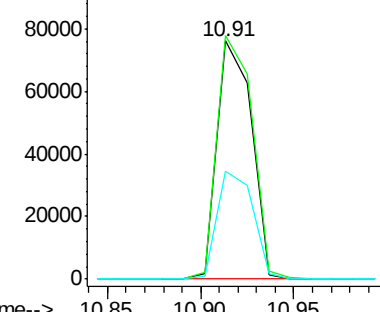


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.91 min Scan# 851
Delta R.T. -0.00 min
Lab File: BF079333.D
Acq: 19 May 2015 5:24

Tgt Ion:164 Resp: 97448
Ion Ratio Lower Upper
164 100
162 102.2 81.4 122.0
160 45.1 36.6 54.8



Abundance Ion 164.00 (163.70 to 164.70): B
Ion 162.00 (161.70 to 162.70): B
Ion 160.00 (159.70 to 160.70): B

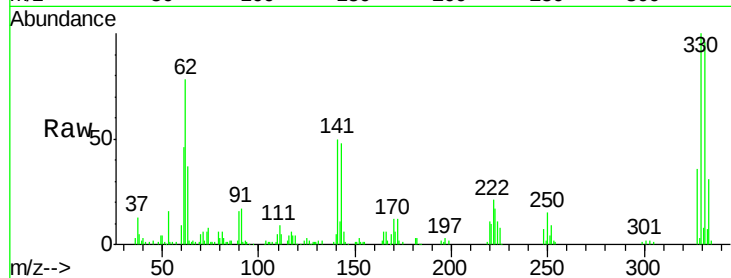




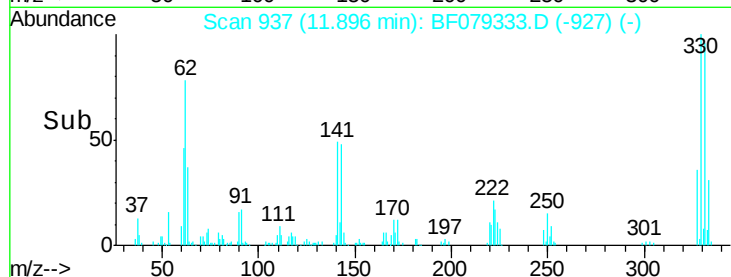
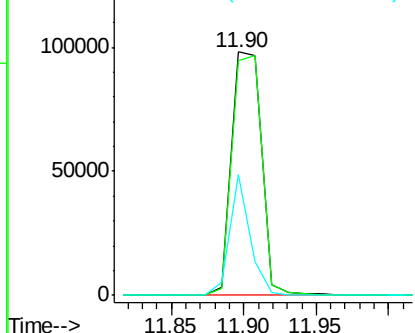
#41
 2,4,6-Tribromophenol
 Concen: 133.40 ng
 RT: 11.90 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: BF079333.D
 Acq: 19 May 2015 5:24

Instrument :
 BNA_F
 ClientSampleId :
 SB-14

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.9	115.3
141	34.1	27.8	41.8

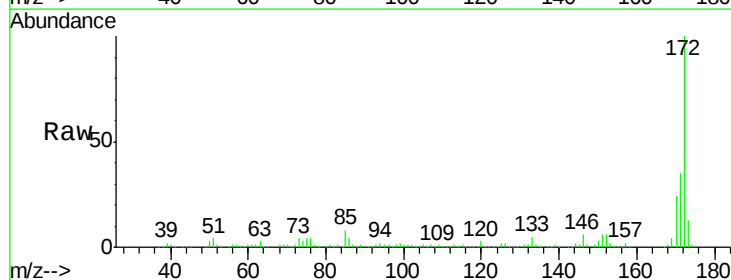


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

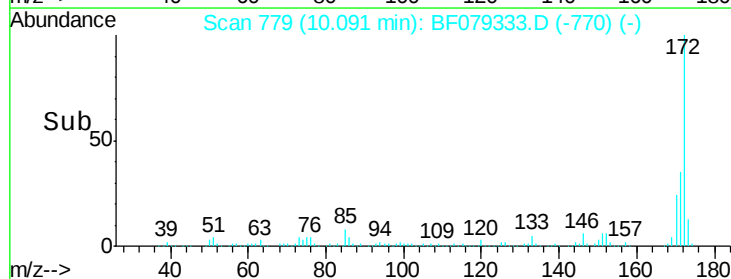
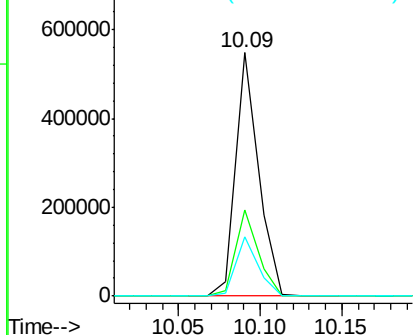


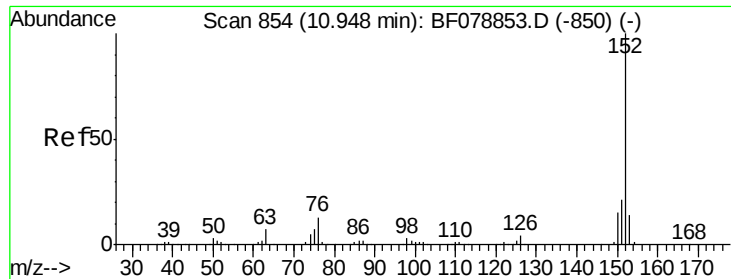
#44
 2-Fluorobiphenyl
 Concen: 75.26 ng
 RT: 10.09 min Scan# 779
 Delta R.T. -0.00 min
 Lab File: BF079333.D
 Acq: 19 May 2015 5:24

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	24.2	19.4	29.2



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: 3.10 ng

RT: 10.74 min Scan# 836

Delta R.T. -0.00 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Instrument :

BNA_F

ClientSampleId :

SB-14

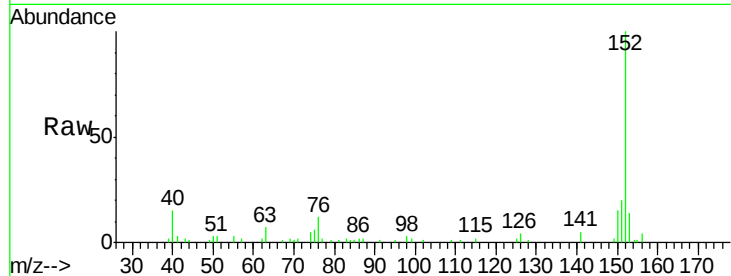
Tot Ion:152 Resp: 30711

Ion Ratio Lower Upper

152 100

151 19.9 16.6 24.8

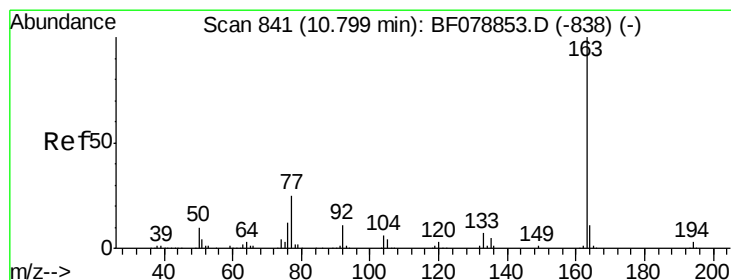
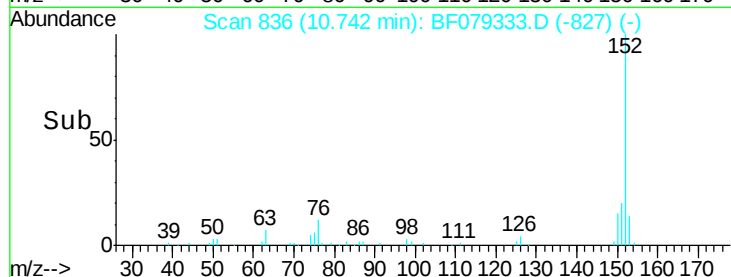
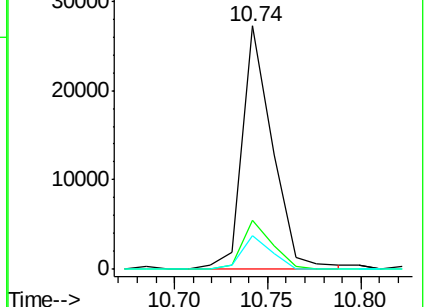
153 13.8 11.0 16.6



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: 3.99 ng

RT: 10.60 min Scan# 824

Delta R.T. -0.00 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

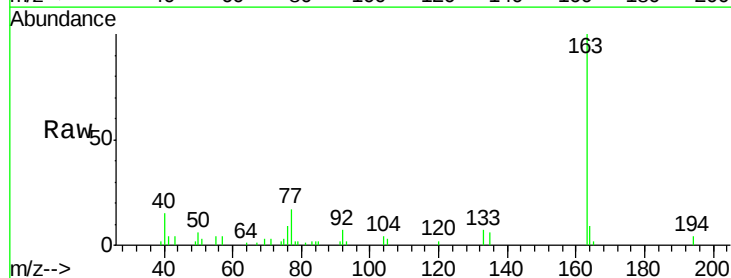
Tgt Ion:163 Resp: 28566

Ion Ratio Lower Upper

163 100

194 3.9 2.4 3.6#

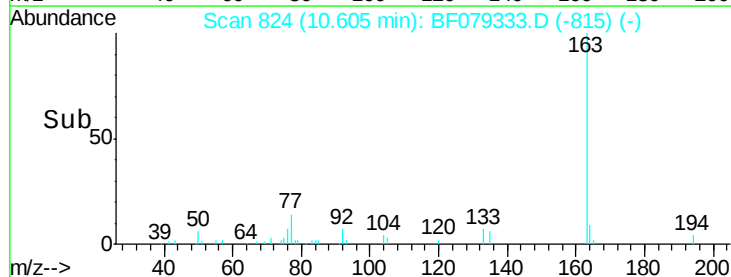
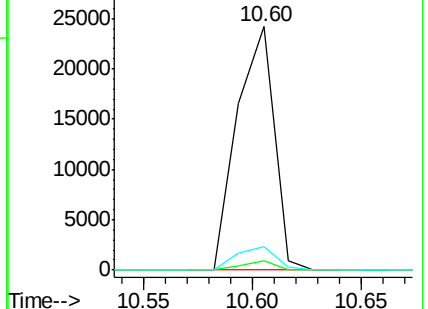
164 9.4 8.6 12.8

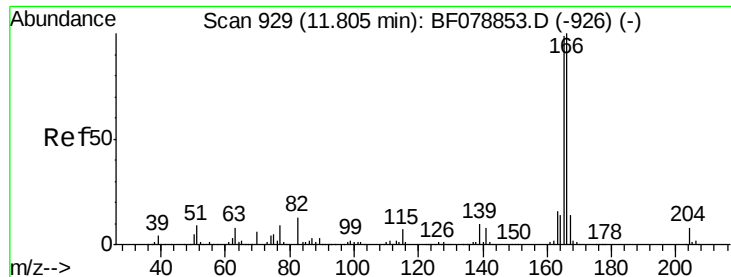


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

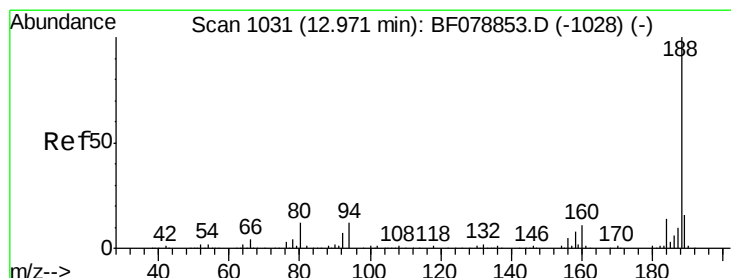
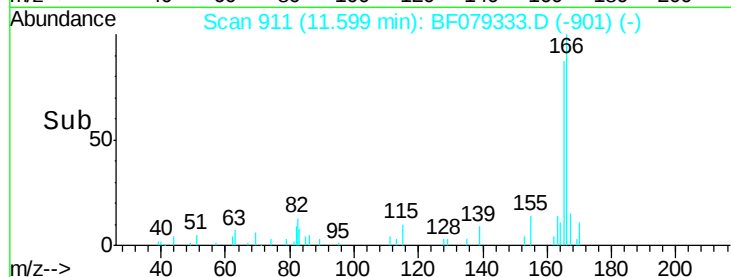
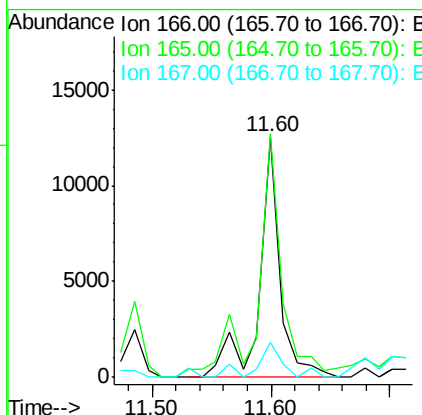
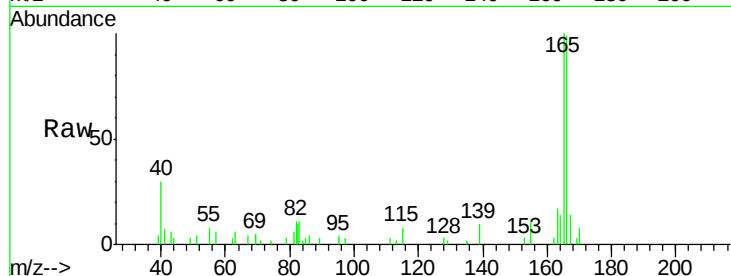




#57
Fluorene
Concen: 2.20 ng
RT: 11.60 min Scan# 911
Delta R.T. -0.00 min
Lab File: BF079333.D
Acq: 19 May 2015 5:24

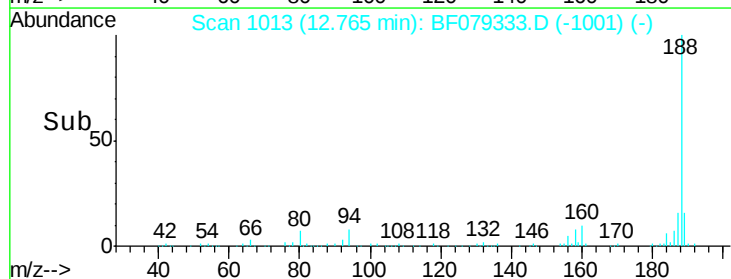
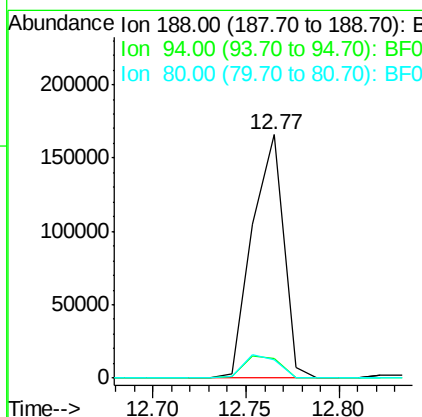
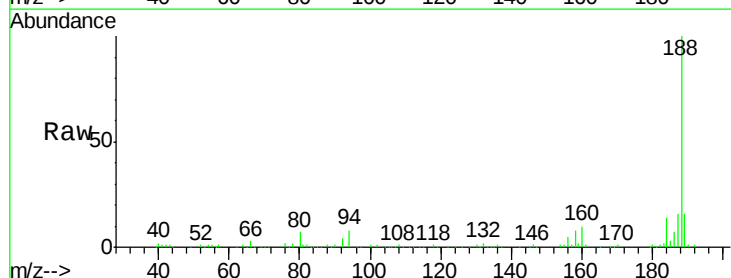
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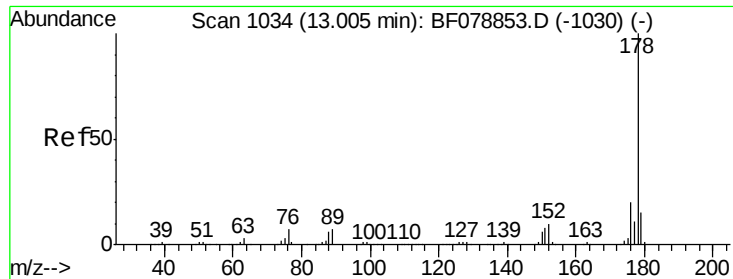
Tot Ion:166 Resp: 15456
Ion Ratio Lower Upper
166 100
165 101.4 79.5 119.3
167 14.5 11.0 16.6



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.77 min Scan# 1013
Delta R.T. 0.01 min
Lab File: BF079333.D
Acq: 19 May 2015 5:24

Tgt Ion:188 Resp: 192307
Ion Ratio Lower Upper
188 100
94 7.9 9.4 14.0#
80 7.4 9.8 14.6#

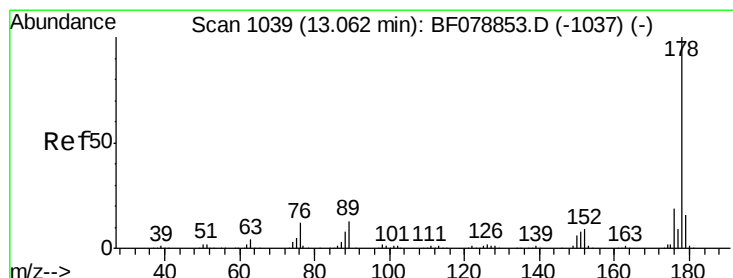
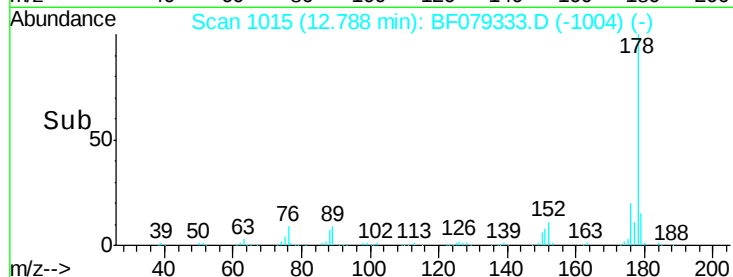
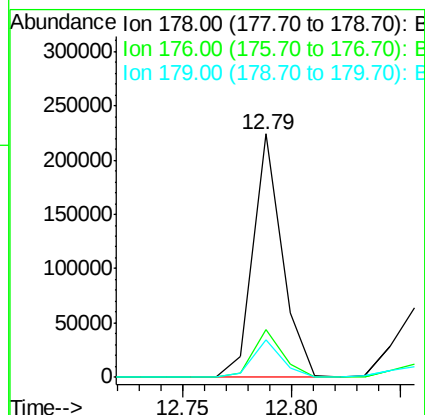
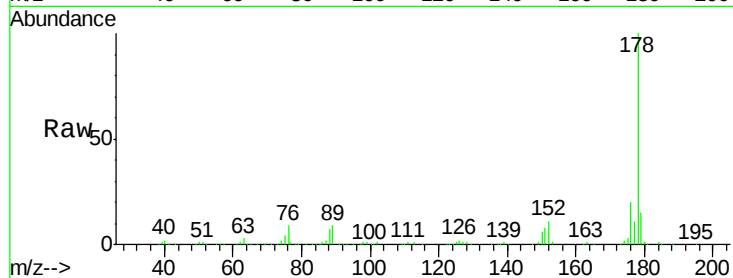




#70
Phenanthrene
Concen: 19.42 ng
RT: 12.79 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BF079333.D
Acq: 19 May 2015 5:24

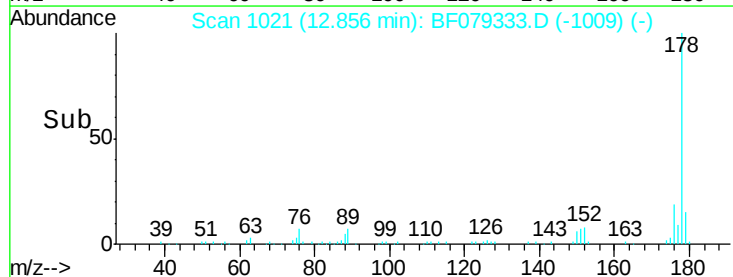
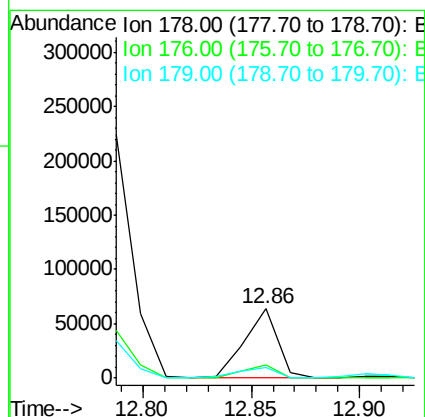
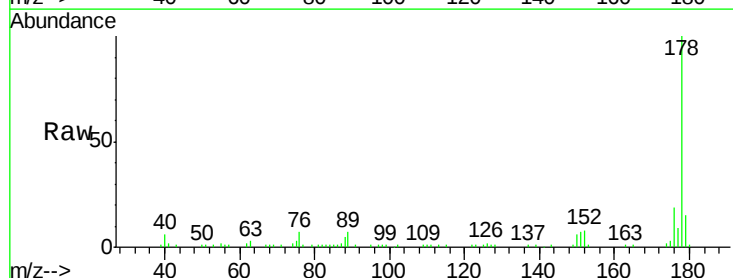
Instrument :
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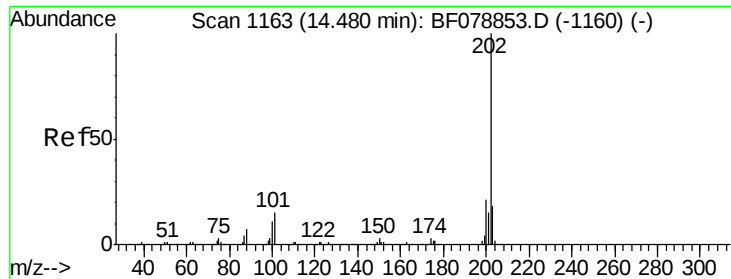
Tot Ion:178 Resp: 208946
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.2 12.2 18.4



#71
Anthracene
Concen: 6.23 ng
RT: 12.86 min Scan# 1021
Delta R.T. 0.01 min
Lab File: BF079333.D
Acq: 19 May 2015 5:24

Tgt Ion:178 Resp: 65774
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.6 19.0





#74

Fluoranthene

Concen: 36.30 ng

RT: 14.26 min Scan# 1144

Delta R.T. -0.00 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Instrument :

BNA_F

ClientSampleId :

SB-14

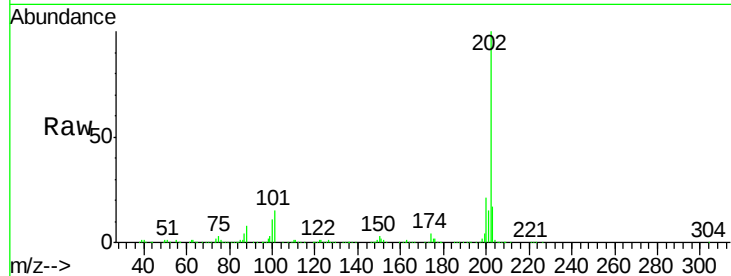
Tot Ion:202 Resp: 406938

Ion Ratio Lower Upper

202 100

101 15.3 0.0 34.7

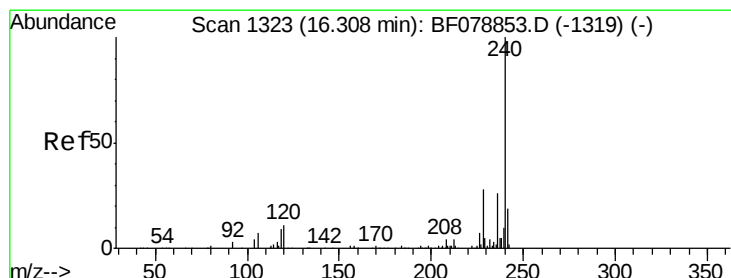
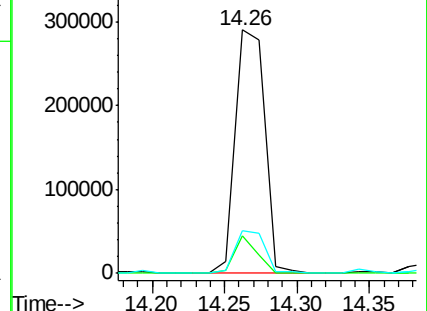
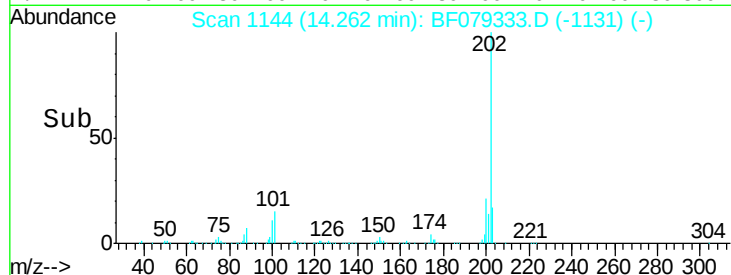
203 17.3 0.0 37.9



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: 16.05 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

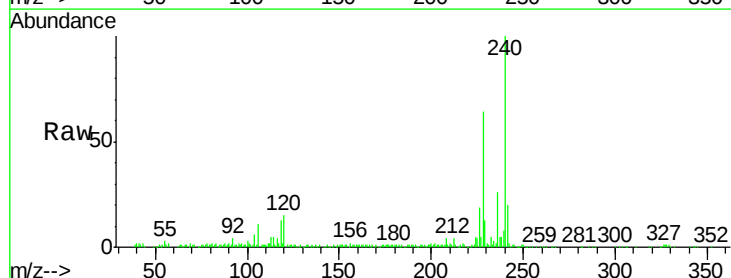
Tgt Ion:240 Resp: 203439

Ion Ratio Lower Upper

240 100

120 15.2 8.6 12.8#

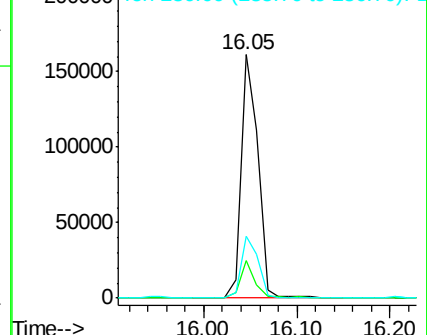
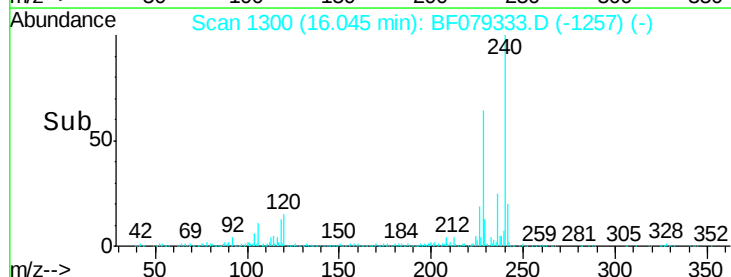
236 25.5 21.0 31.6

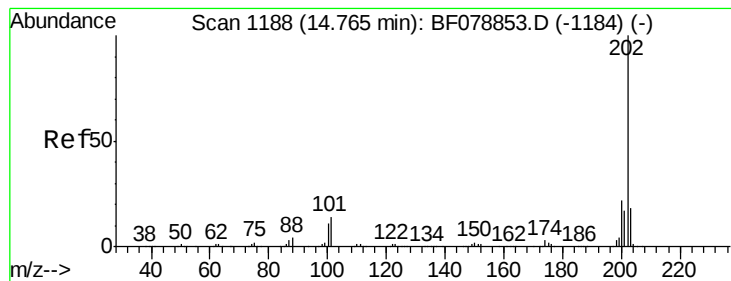


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 33.27 ng

RT: 14.55 min Scan# 1169

Delta R.T. 0.01 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Instrument :

BNA_F

ClientSampled :

SB-14

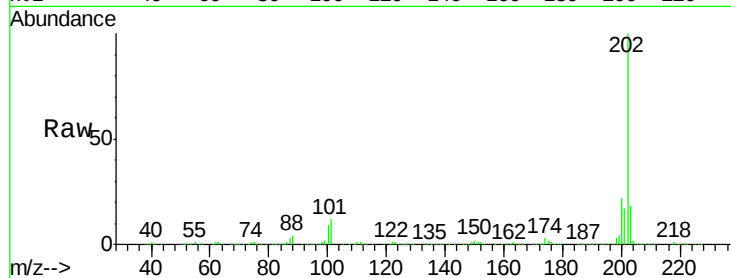
Tot Ion:202 Resp: 390063

Ion Ratio Lower Upper

202 100

200 21.6 17.5 26.3

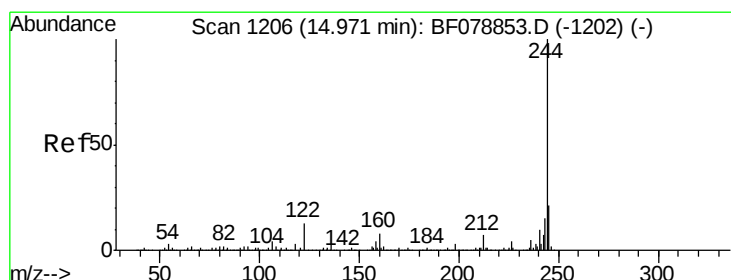
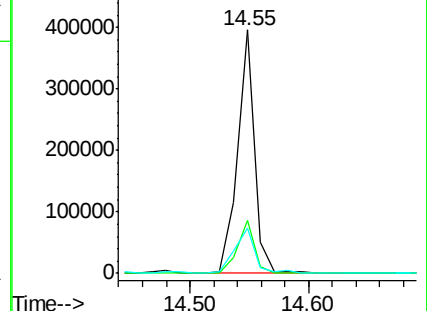
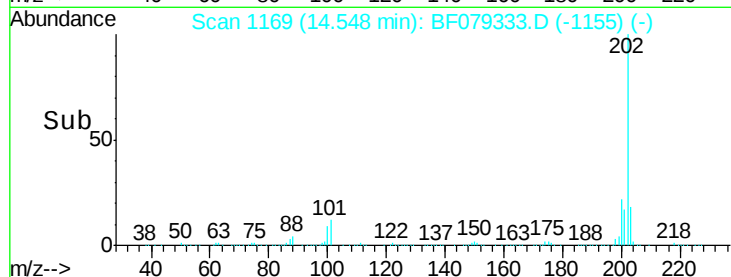
203 18.4 14.7 22.1



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: 73.04 ng

RT: 14.75 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

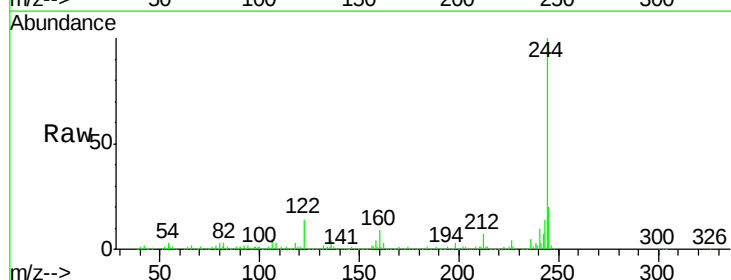
Tgt Ion:244 Resp: 620665

Ion Ratio Lower Upper

244 100

212 7.1 5.6 8.4

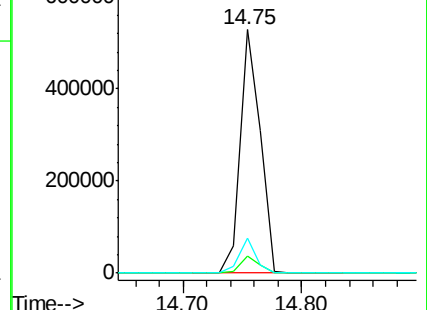
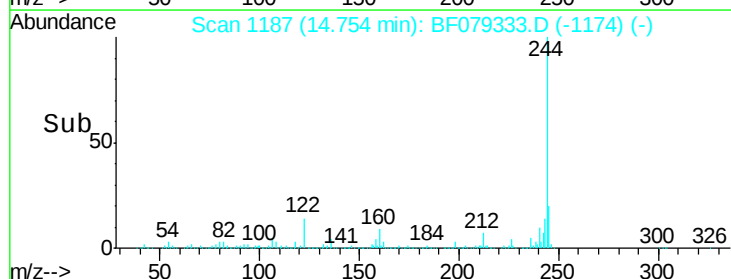
122 14.4 10.5 15.7

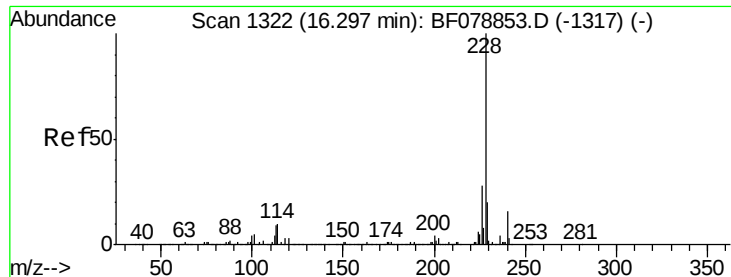


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 19.01 ng

RT: 16.03 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Instrument :

BNA_F

ClientSampleId :

SB-14

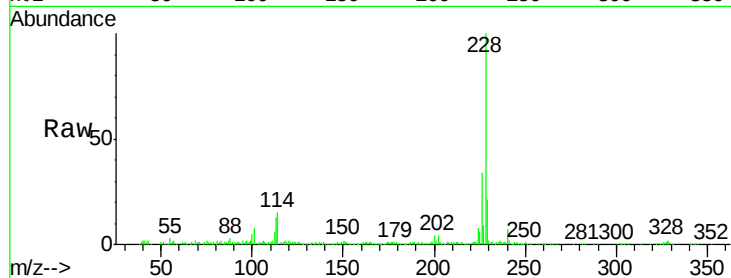
Tot Ion:228 Resp: 211732

Ion Ratio Lower Upper

228 100

226 33.8 22.3 33.5#

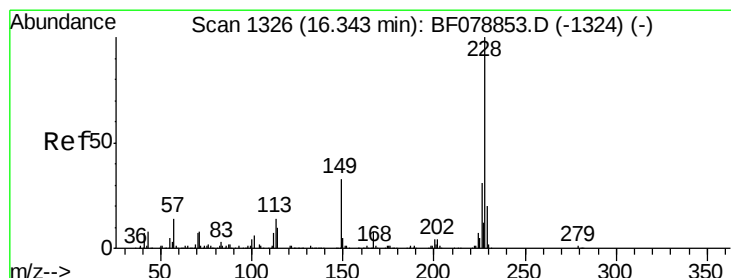
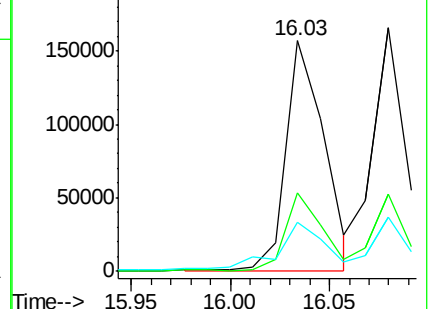
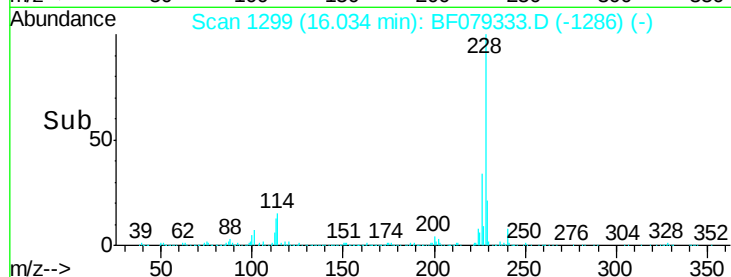
229 21.2 16.1 24.1



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: 17.32 ng

RT: 16.08 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

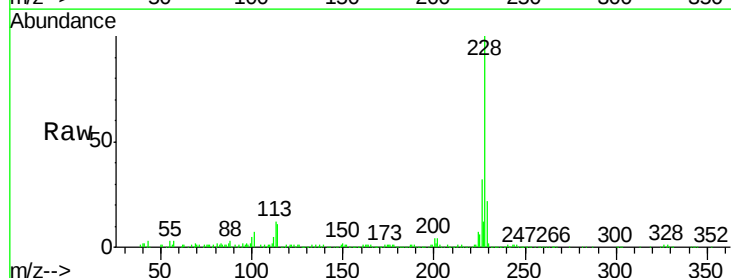
Tgt Ion:228 Resp: 185560

Ion Ratio Lower Upper

228 100

226 31.7 24.8 37.2

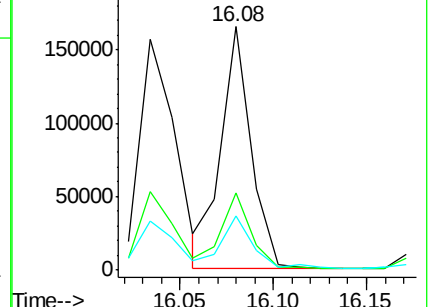
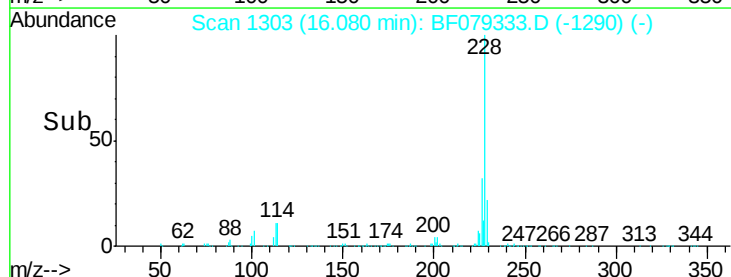
229 22.3 16.1 24.1

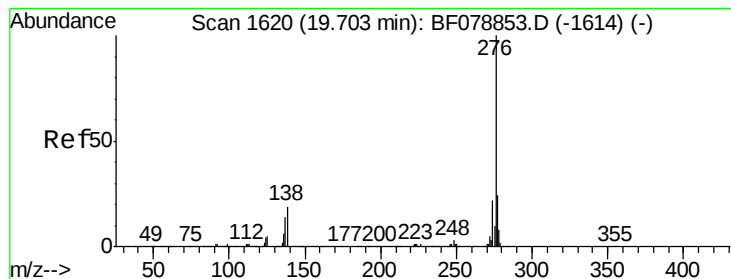


Abundance Ion 228.00 (227.70 to 228.70): E

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: 7.97 ng

RT: 19.19 min Scan# 1575

Delta R.T. -0.08 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Instrument :

BNA_F

ClientSampleId :

SB-14

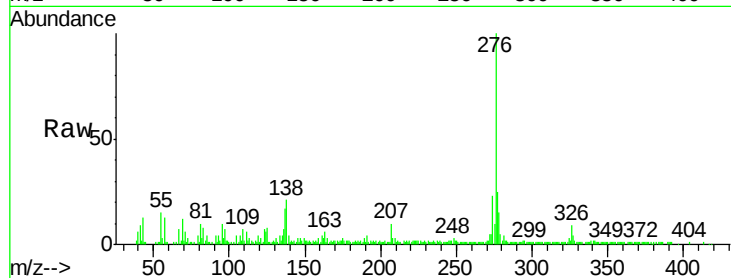
Tot Ion:276 Resp: 108842

Ion Ratio Lower Upper

276 100

138 22.6 21.1 31.7

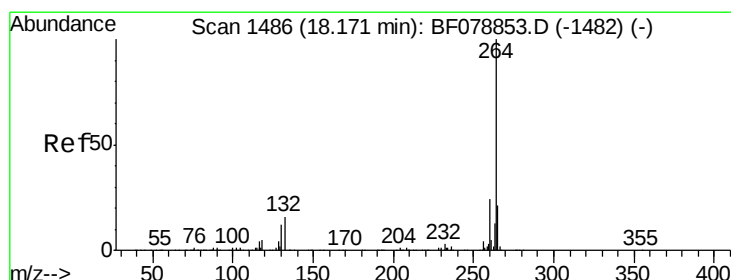
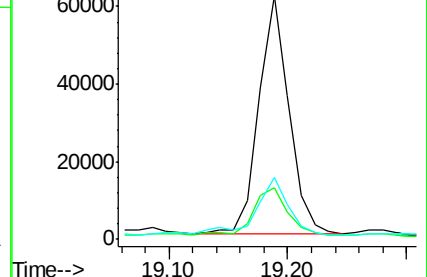
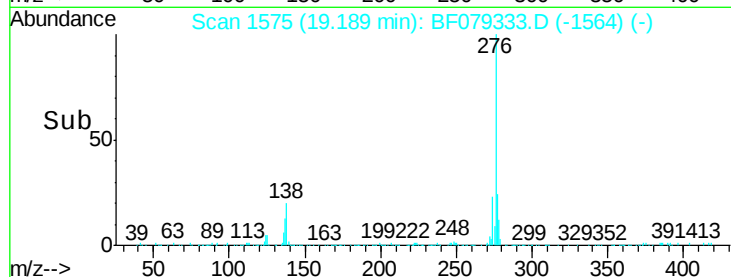
277 28.6 19.9 29.9



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: 17.78 min Scan# 1452

Delta R.T. -0.07 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

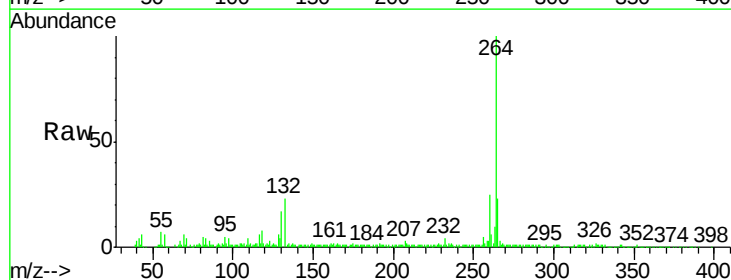
Tgt Ion:264 Resp: 208120

Ion Ratio Lower Upper

264 100

260 24.7 19.2 28.8

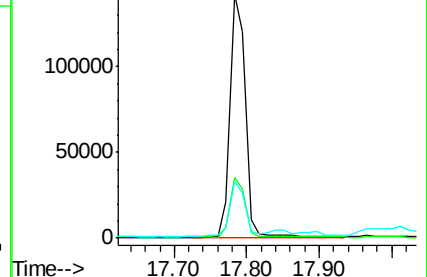
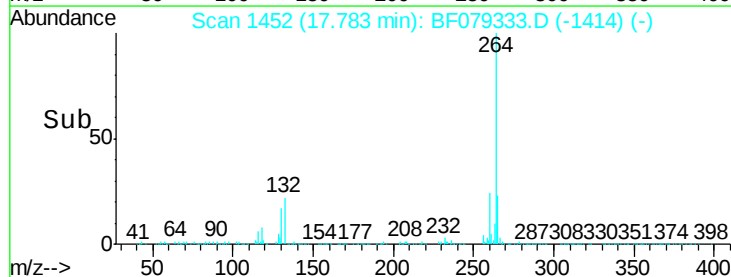
265 23.3 17.2 25.8

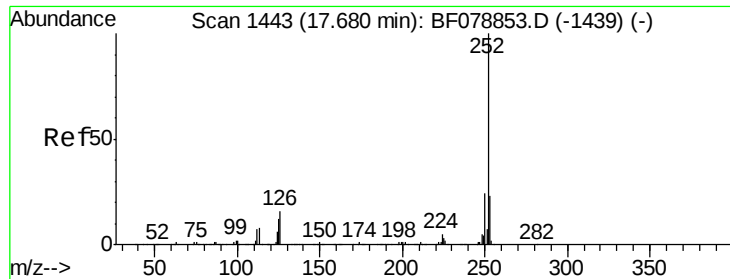


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 21.33 ng m

RT: 17.35 min Scan# 1414

Delta R.T. -0.05 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Instrument :

BNA_F

ClientSampleId :

SB-14

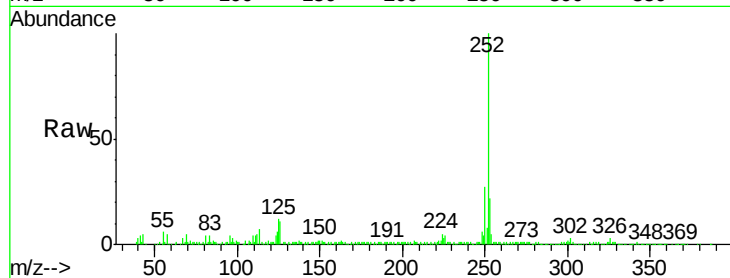
Tot Ion:252 Resp: 243008

Ion Ratio Lower Upper

252 100

253 22.4 18.1 27.1

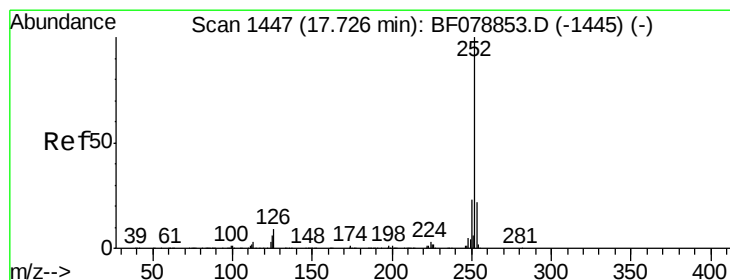
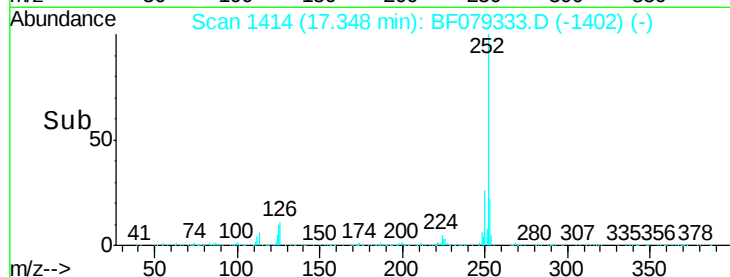
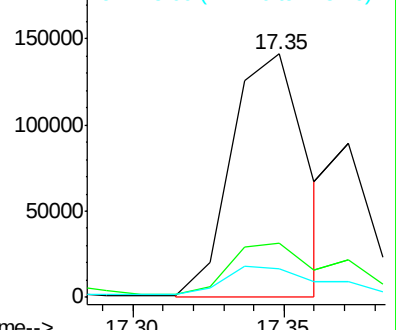
125 11.6 9.4 14.2



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: 7.33 ng m

RT: 17.37 min Scan# 1416

Delta R.T. -0.06 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

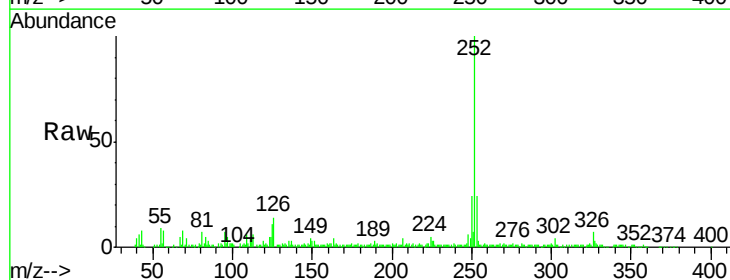
Tgt Ion:252 Resp: 80816

Ion Ratio Lower Upper

252 100

253 24.2 17.4 26.0

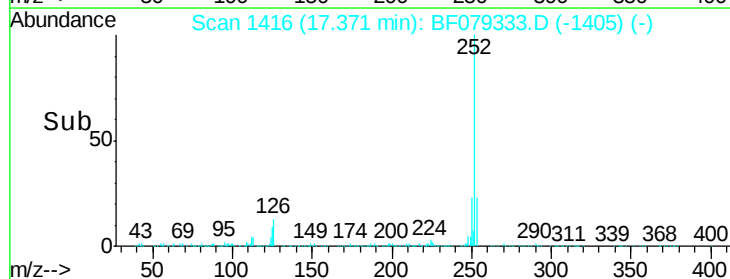
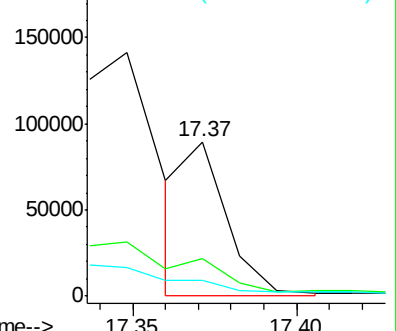
125 10.6 6.1 9.1#

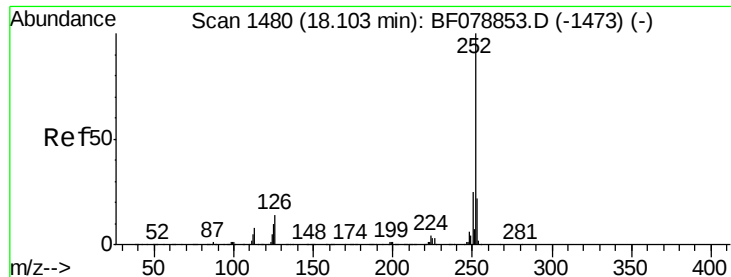


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 16.40 ng

RT: 17.73 min Scan# 1447

Delta R.T. -0.07 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

Instrument :

BNA_F

ClientSampled :

SB-14

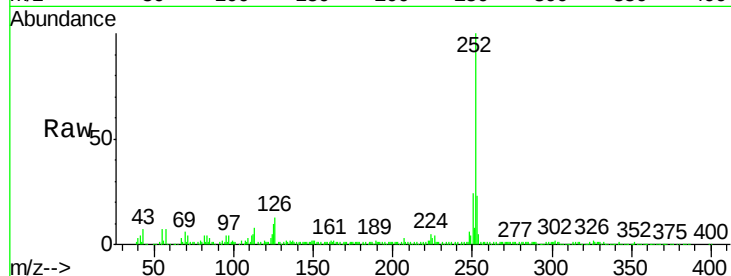
Tot Ion:252 Resp: 171992

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

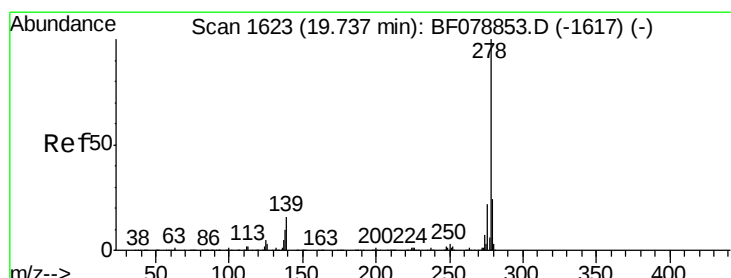
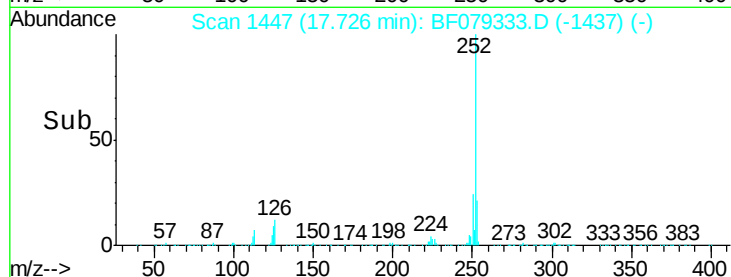
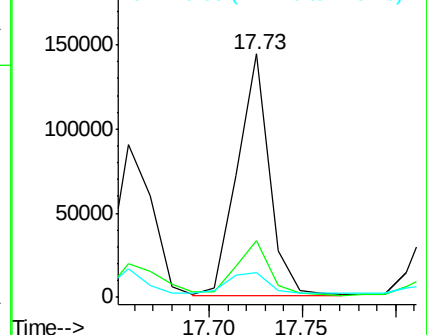
125 10.2 8.2 12.2



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: 2.51 ng

RT: 19.20 min Scan# 1576

Delta R.T. -0.10 min

Lab File: BF079333.D

Acq: 19 May 2015 5:24

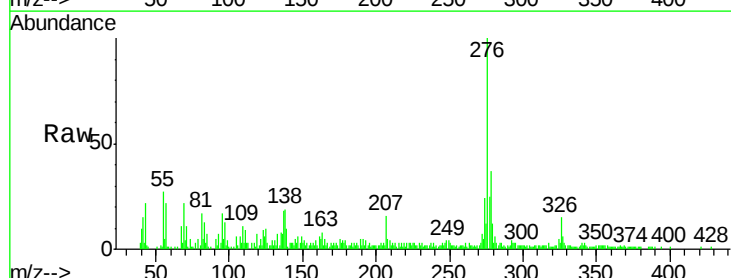
Tgt Ion:278 Resp: 28008

Ion Ratio Lower Upper

278 100

139 27.0 13.1 19.7#

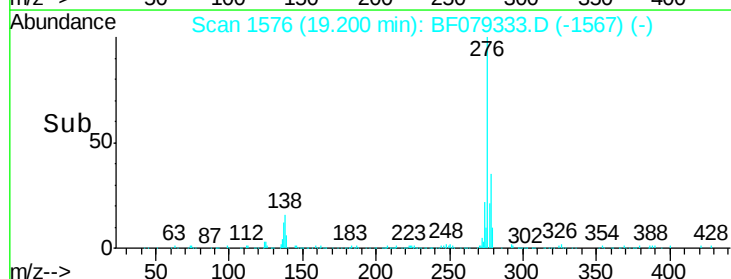
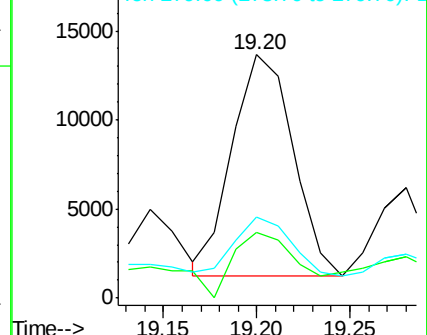
279 33.3 19.1 28.7#

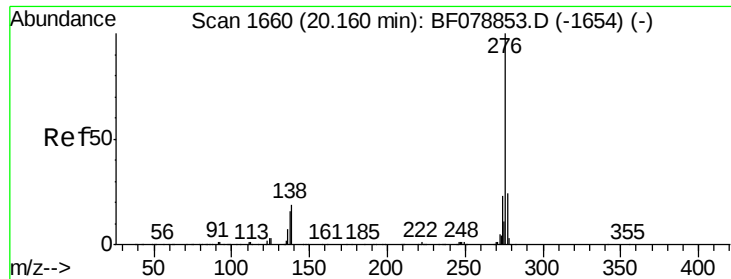


Abundance Ion 278.00 (277.70 to 278.70): E

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: 9.42 ng
 RT: 19.60 min Scan# 1611
 Delta R.T. -0.09 min
 Lab File: BF079333.D
 Acq: 19 May 2015 5:24

Instrument :
 BNA_F
 ClientSampleId :
 SB-14

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.8	28.2
138	24.4	15.2	22.8

