

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\
 Data File : BF079324.D
 Acq On : 19 May 2015 1:05
 Operator : TP/IZ
 Sample : G2270-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-08

Quant Time: May 19 02:15:18 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 01:54:10 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.16	152	45612	20.00	ng	0.00
21) Naphthalene-d8	8.74	136	184245	20.00	ng	0.00
38) Acenaphthene-d10	10.91	164	88319	20.00	ng	0.00
63) Phenanthrene-d10	12.75	188	172820	20.00	ng	0.00
75) Chrysene-d12	16.05	240	192333	20.00	ng	-0.01
86) Perylene-d12	17.79	264	202123	20.00	ng	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	165715m	62.54	ng	0.00
7) Phenol-d6	6.74	99	268192	76.57	ng	0.00
23) Nitrobenzene-d5	7.86	82	145597	45.42	ng	0.00
41) 2,4,6-Tribromophenol	11.90	330	86377	90.40	ng	0.00
44) 2-Fluorobiphenyl	10.09	172	336239	53.04	ng	0.00
78) Terphenyl-d14	14.75	244	423181	52.68	ng	0.00

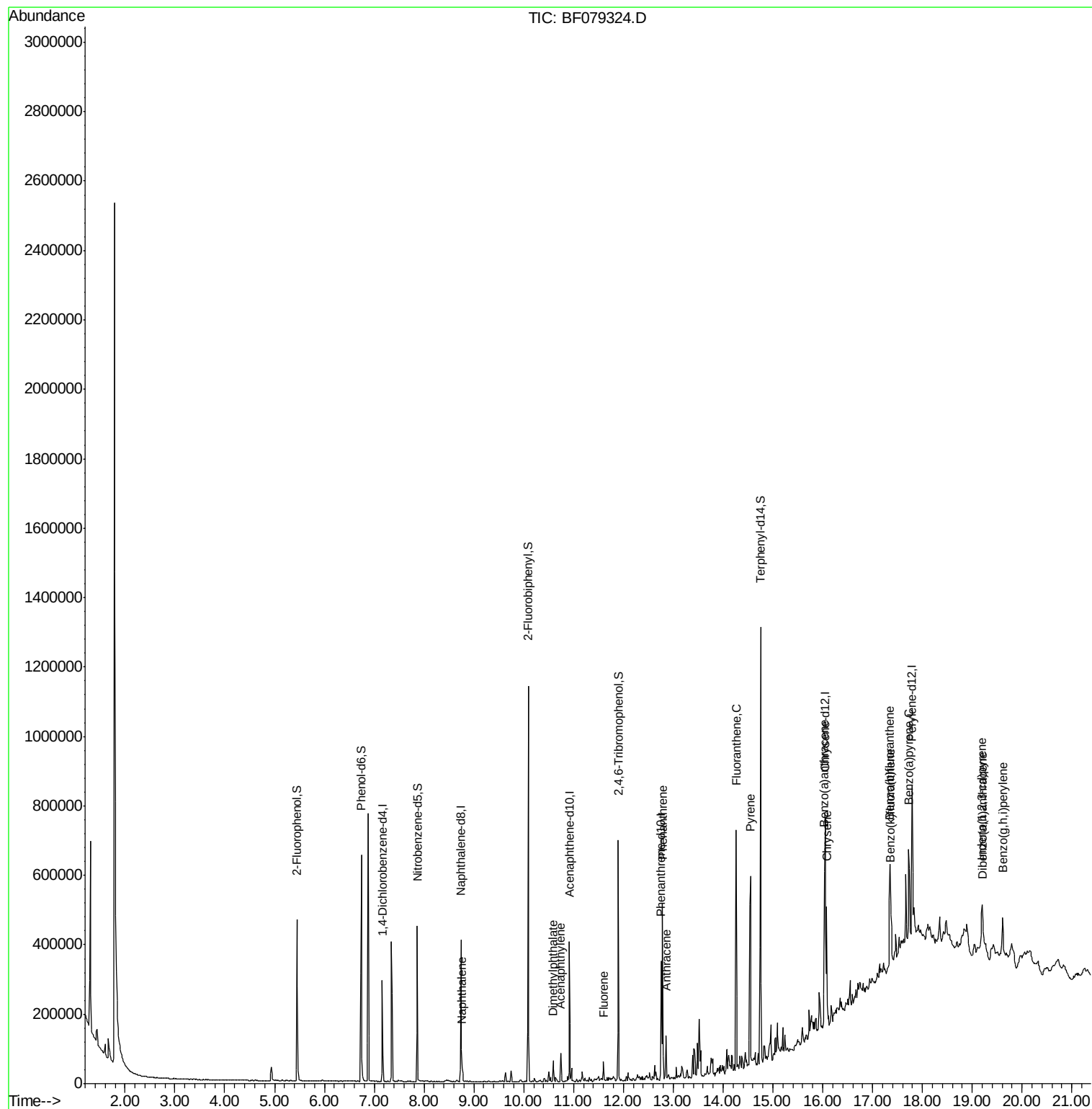
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.76	128	20328	2.32	ng	98
48) Acenaphthylene	10.74	152	33543	3.73	ng	99
49) Dimethylphthalate	10.59	163	30471	4.70	ng	100
57) Fluorene	11.60	166	19787	3.11	ng	96
70) Phenanthrene	12.79	178	195125	20.18	ng	99
71) Anthracene	12.86	178	69850	7.36	ng	99
74) Fluoranthene	14.26	202	298535	29.63	ng	98
77) Pyrene	14.55	202	297364	26.83	ng	99
80) Benzo(a)anthracene	16.03	228	178837m	16.98	ng	
82) Chrysene	16.08	228	143805	14.20	ng	98
85) Indeno(1,2,3-cd)pyrene	19.20	276	87783	6.80	ng	95
87) Benzo(b)fluoranthene	17.35	252	184350m	16.66	ng	
88) Benzo(k)fluoranthene	17.36	252	78168m	7.30	ng	
89) Benzo(a)pyrene	17.73	252	140311	13.77	ng	# 93
90) Dibenzo(a,h)anthracene	19.21	278	22108	2.04	ng	# 75
91) Benzo(g,h,i)perylene	19.61	276	89758	8.27	ng	96

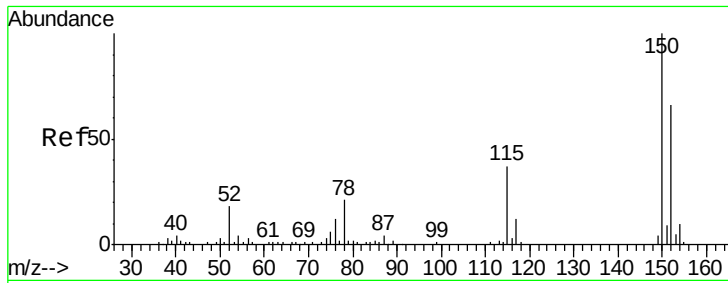
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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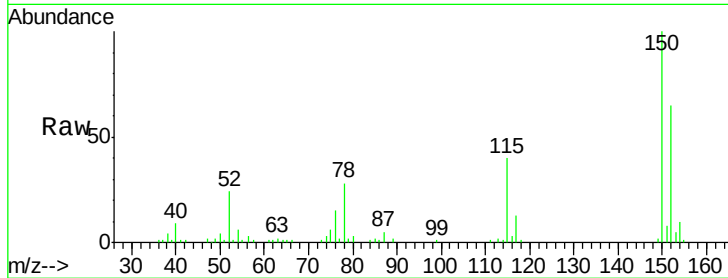




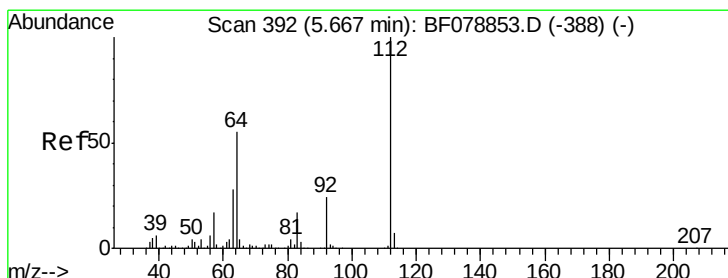
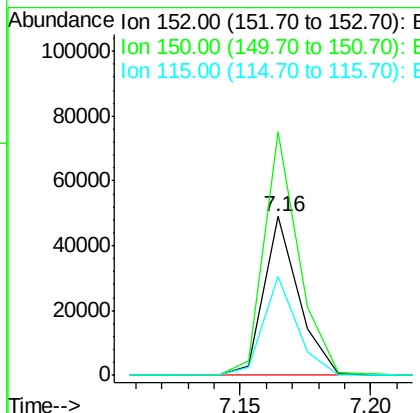
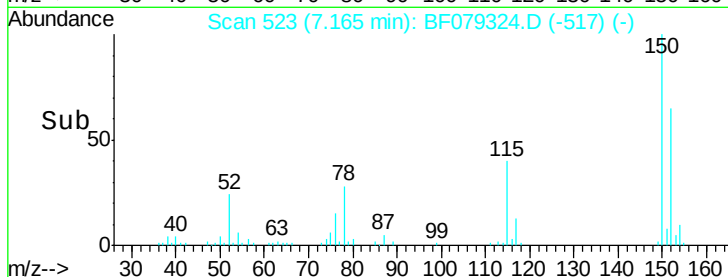
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.16 min Scan# 523
 Delta R.T. -0.00 min
 Lab File: BF079324.D
 Acq: 19 May 2015 1:05

Instrument :
 BNA_F
 ClientSampleID :
 SB-08

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.5	123.8	185.8
115	62.1	49.4	74.0

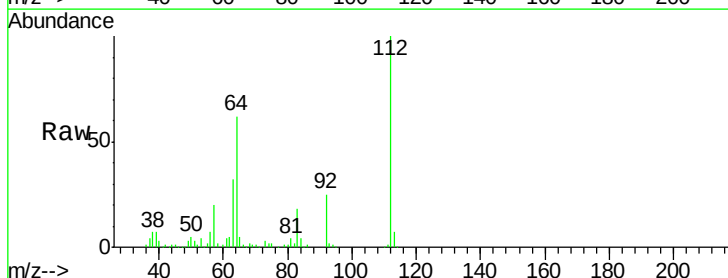


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

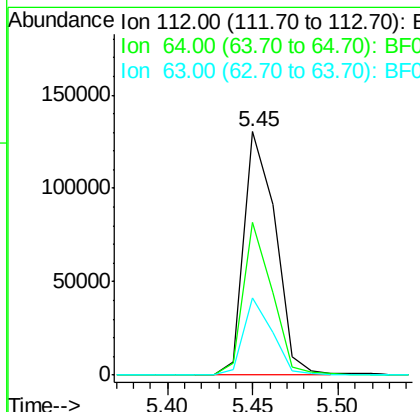
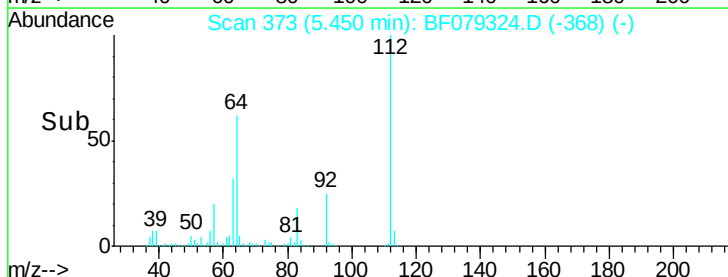


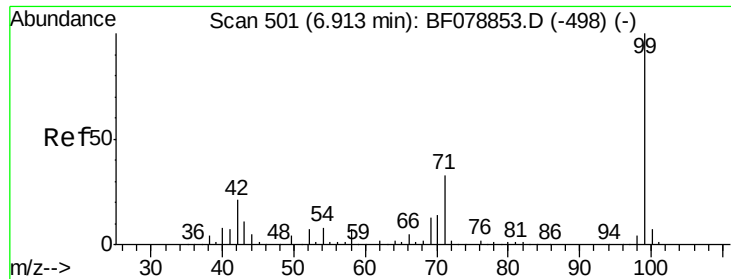
#5
 2-Fluorophenol
 Concen: 62.54 ng m
 RT: 5.45 min Scan# 373
 Delta R.T. -0.00 min
 Lab File: BF079324.D
 Acq: 19 May 2015 1:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.5	44.2	66.2
63	31.7	22.7	34.1



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: 76.57 ng

RT: 6.74 min Scan# 486

Delta R.T. -0.00 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

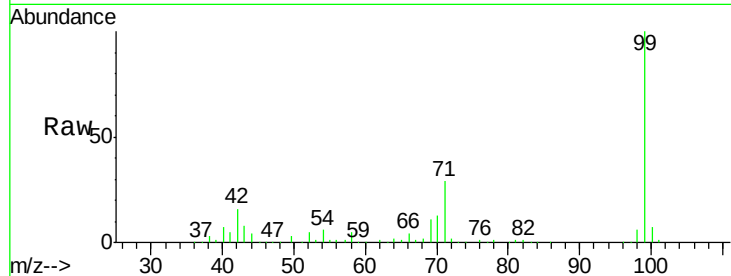
BNA_F

ClientSampleId :

SB-08

Tot Ion: 99 Resp: 268192

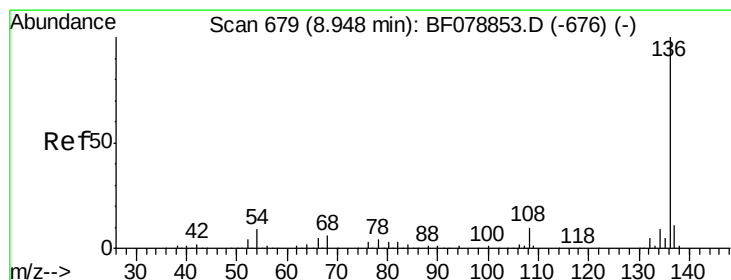
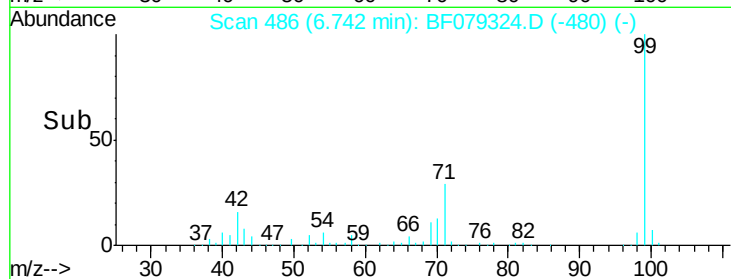
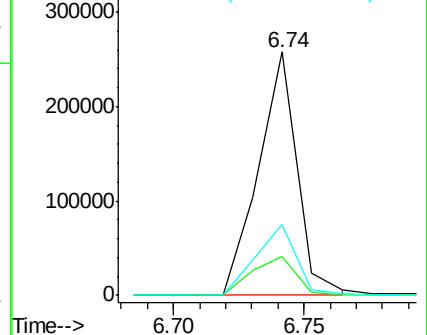
Ion	Ratio	Lower	Upper
99	100		
42	15.9	17.1	25.7#
71	29.0	26.3	39.5



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

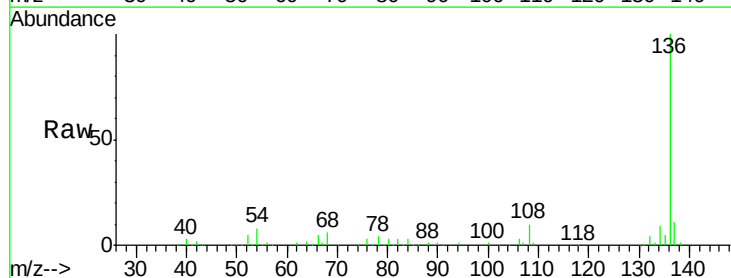
Delta R.T. -0.00 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Tgt Ion: 136 Resp: 184245

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	8.1	6.9	10.3
68	5.9	4.9	7.3

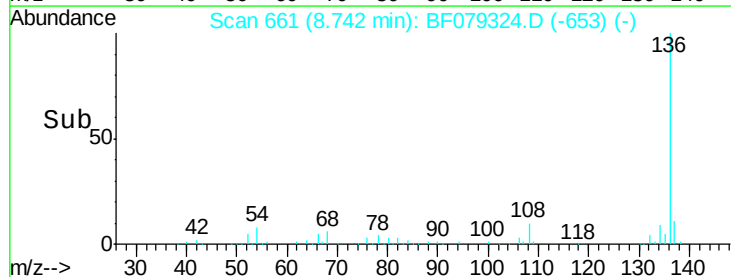
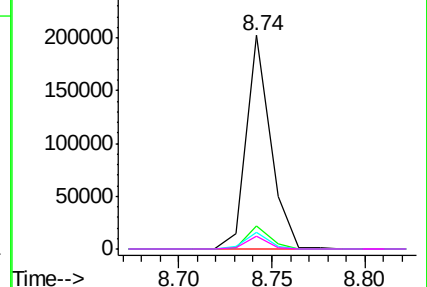


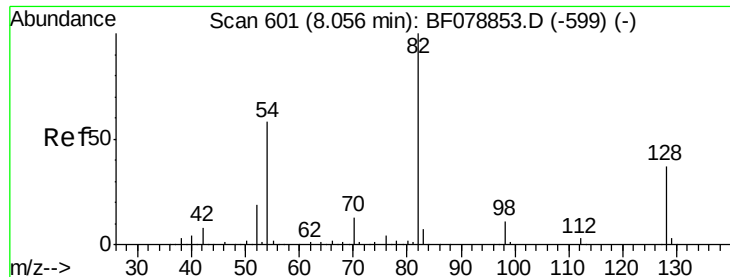
Abundance Ion 136.00 (135.70 to 136.70): E

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: 45.42 ng

RT: 7.86 min Scan# 584

Delta R.T. -0.00 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

BNA_F

ClientSampled :

SB-08

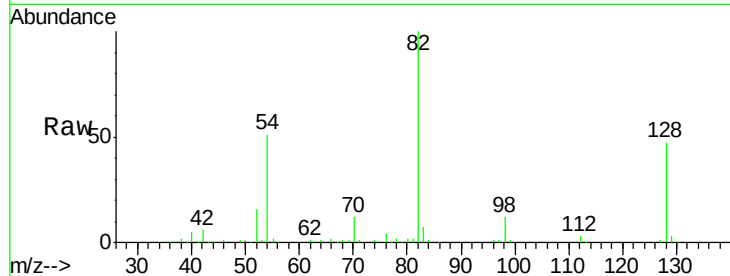
Tot Ion: 82 Resp: 145597

Ion Ratio Lower Upper

82 100

128 47.2 29.7 44.5#

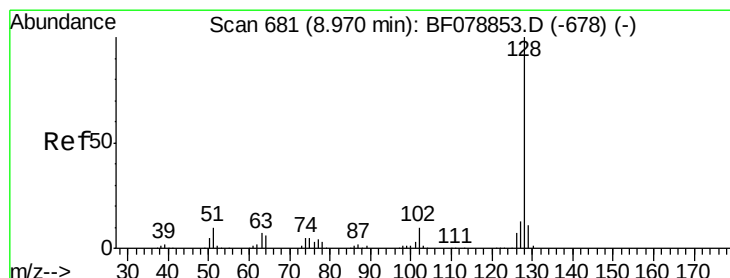
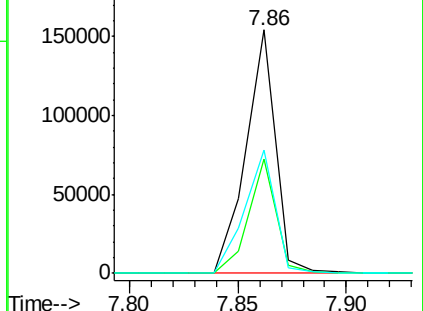
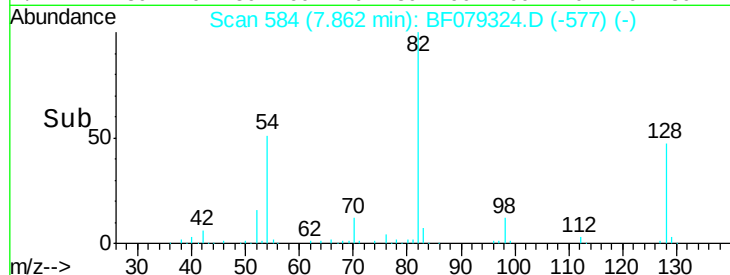
54 50.5 46.2 69.4



Abundance Ion 82.00 (81.70 to 82.70): BF079324.D (-577) (-)

Ion 128.00 (127.70 to 128.70): BF079324.D (-577) (-)

Ion 54.00 (53.70 to 54.70): BF079324.D (-577) (-)



#31

Naphthalene

Concen: 2.32 ng

RT: 8.76 min Scan# 663

Delta R.T. -0.00 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

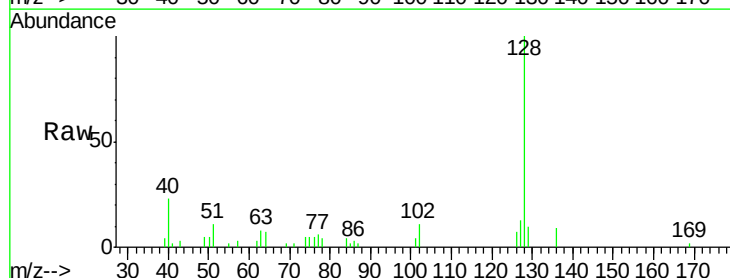
Tgt Ion: 128 Resp: 20328

Ion Ratio Lower Upper

128 100

129 10.0 9.2 13.8

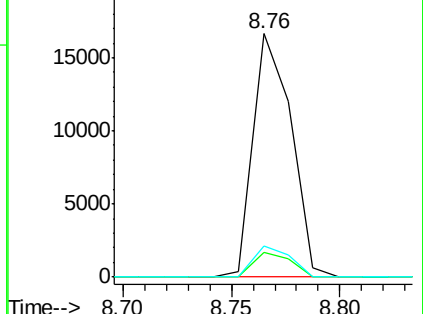
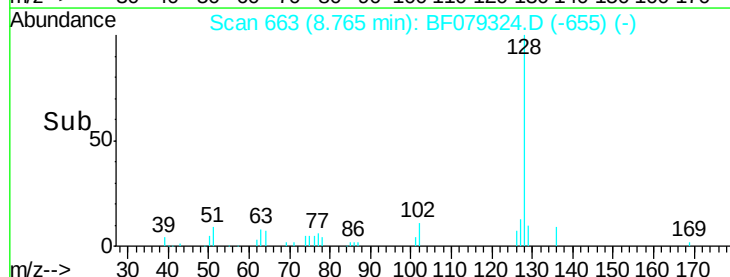
127 12.6 10.3 15.5

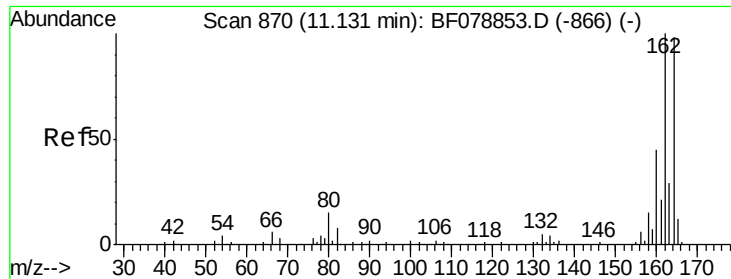


Abundance Ion 128.00 (127.70 to 128.70): BF079324.D (-655) (-)

Ion 129.00 (128.70 to 129.70): BF079324.D (-655) (-)

Ion 127.00 (126.70 to 127.70): BF079324.D (-655) (-)

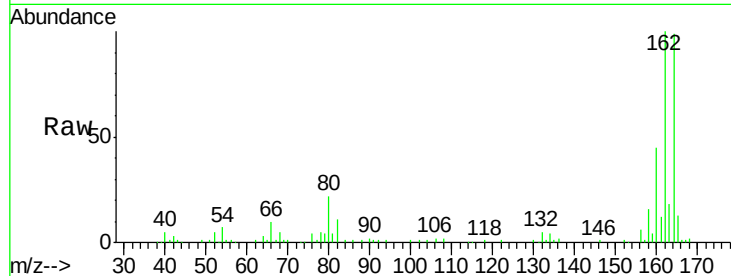




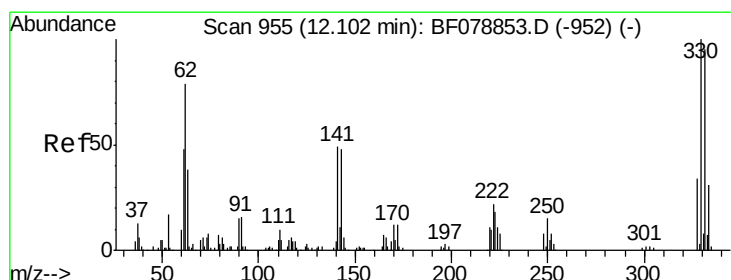
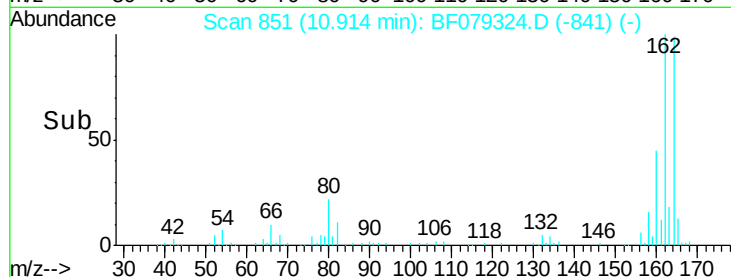
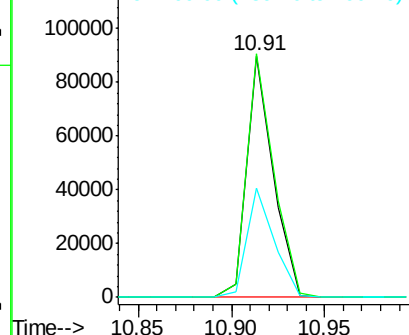
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.91 min Scan# 851
 Delta R.T. -0.00 min
 Lab File: BF079324.D
 Acq: 19 May 2015 1:05

Instrument :
 BNA_F
 ClientSampleId :
 SB-08

Tot Ion:164 Resp: 88319
 Ion Ratio Lower Upper
 164 100
 162 100.8 81.4 122.0
 160 45.2 36.6 54.8

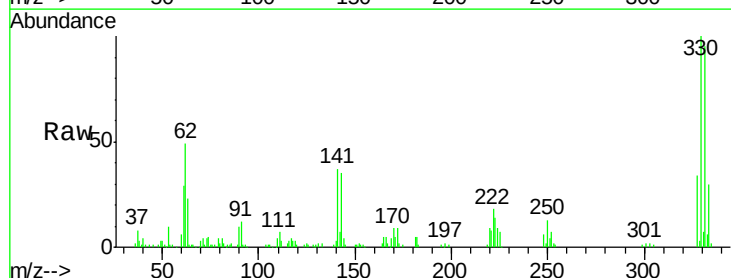


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

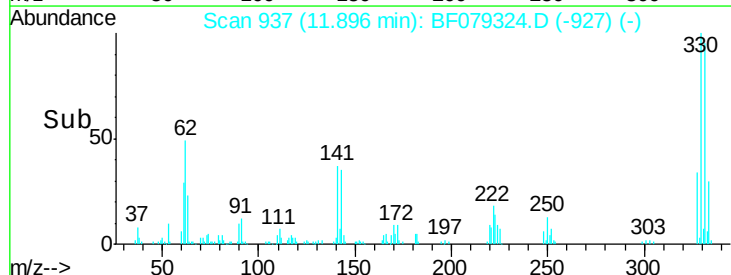
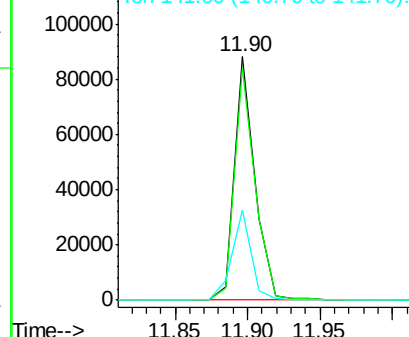


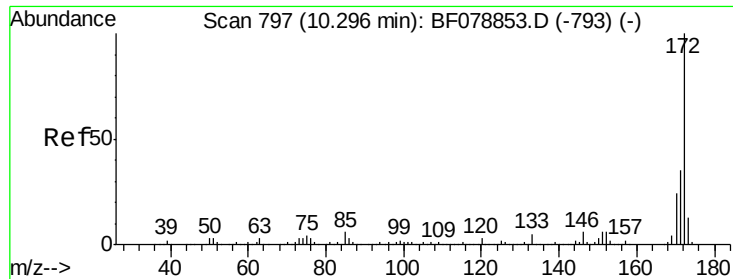
#41
 2,4,6-Tribromophenol
 Concen: 90.40 ng
 RT: 11.90 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: BF079324.D
 Acq: 19 May 2015 1:05

Tgt Ion:330 Resp: 86377
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.9 115.3
 141 35.0 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

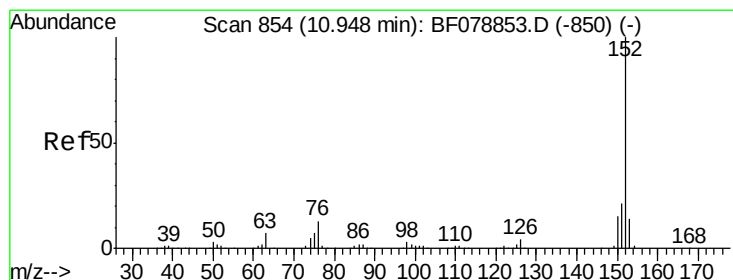
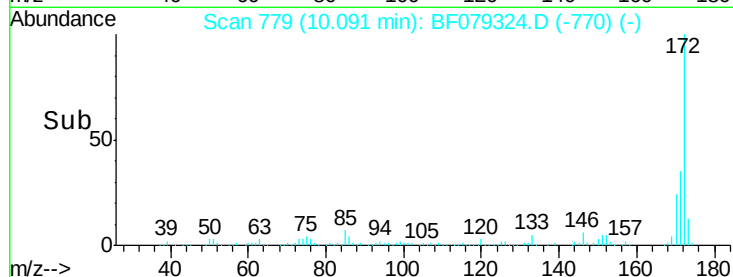
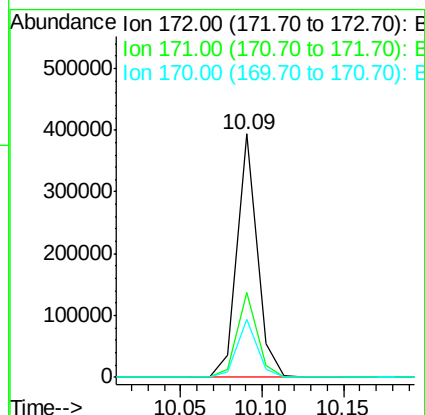
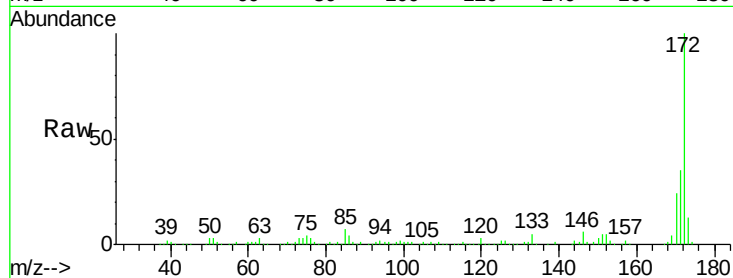




#44
2-Fluorobiphenyl
Concen: 53.04 ng
RT: 10.09 min Scan# 779
Delta R.T. -0.00 min
Lab File: BF079324.D
Acq: 19 May 2015 1:05

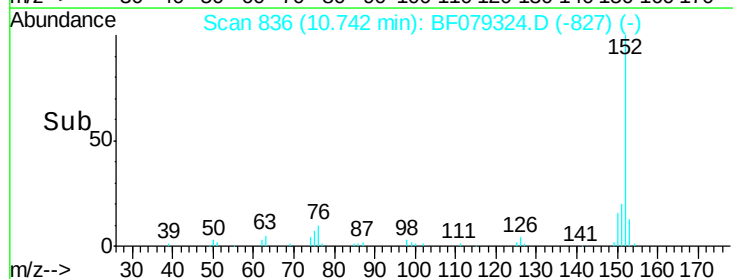
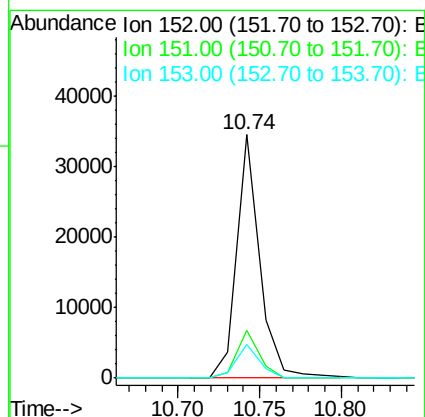
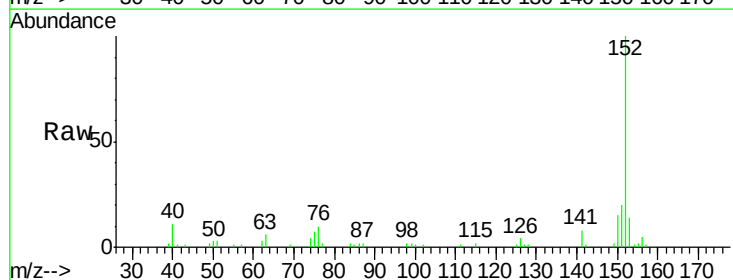
Instrument :
BNA_F
ClientSampleId :
SB-08

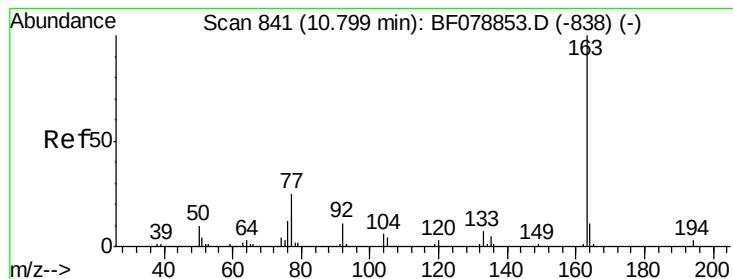
Tot Ion:172 Resp: 336239
Ion Ratio Lower Upper
172 100
171 35.1 28.3 42.5
170 23.6 19.4 29.2



#48
Acenaphthylene
Concen: 3.73 ng
RT: 10.74 min Scan# 836
Delta R.T. -0.00 min
Lab File: BF079324.D
Acq: 19 May 2015 1:05

Tgt Ion:152 Resp: 33543
Ion Ratio Lower Upper
152 100
151 19.8 16.6 24.8
153 13.7 11.0 16.6





#49

Dimethylphthalate

Concen: 4.70 ng

RT: 10.59 min Scan# 823

Delta R.T. -0.01 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

BNA_F

ClientSampleId :

SB-08

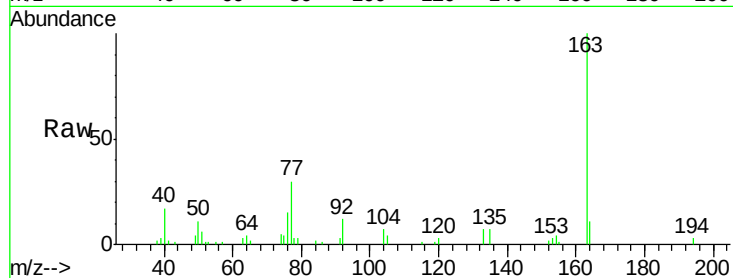
Tot Ion:163 Resp: 30471

Ion Ratio Lower Upper

163 100

194 2.8 2.4 3.6

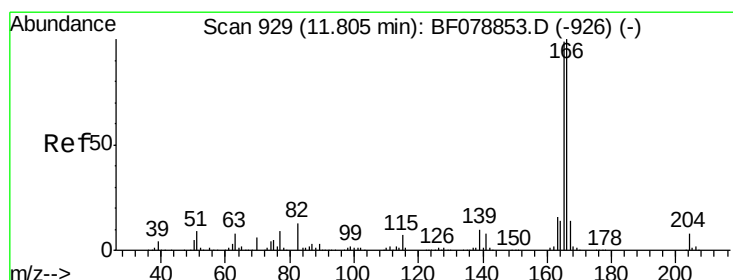
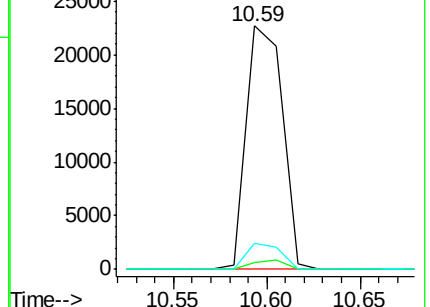
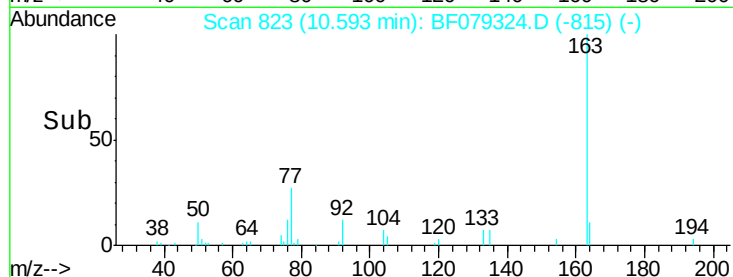
164 10.7 8.6 12.8



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: 3.11 ng

RT: 11.60 min Scan# 911

Delta R.T. -0.00 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

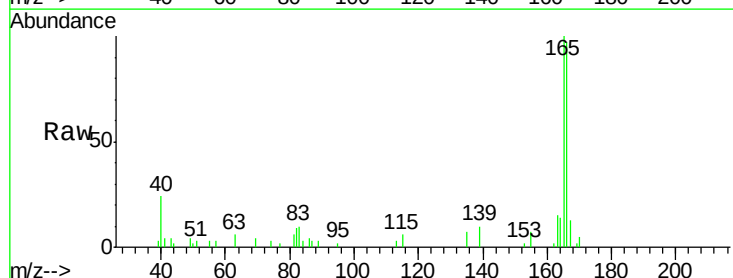
Tgt Ion:166 Resp: 19787

Ion Ratio Lower Upper

166 100

165 103.6 79.5 119.3

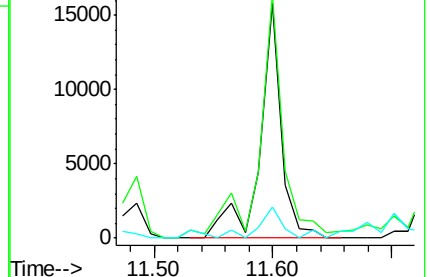
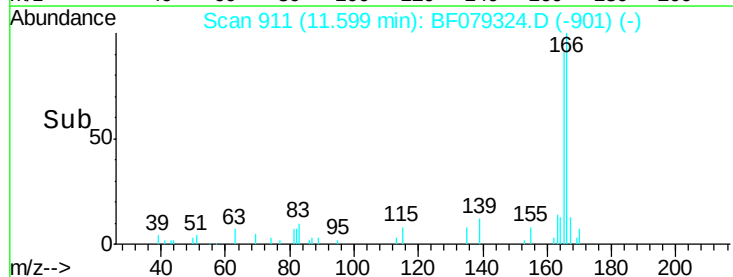
167 13.3 11.0 16.6

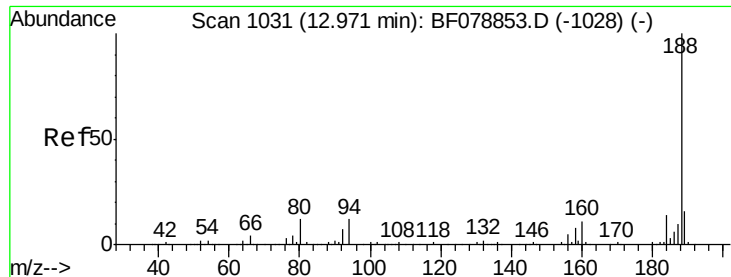


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

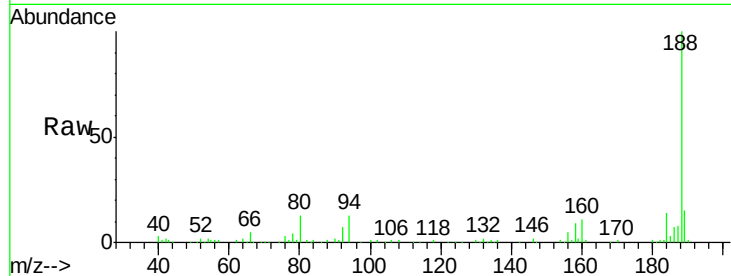




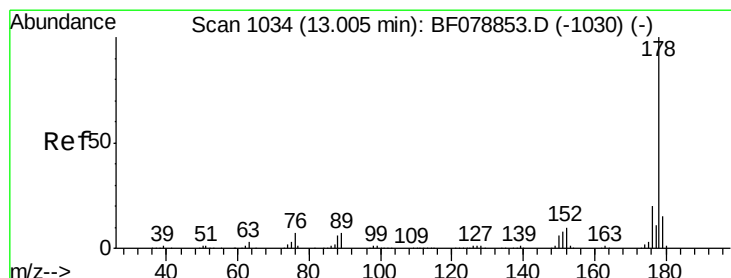
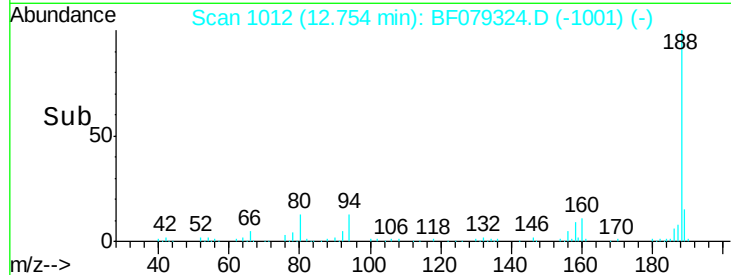
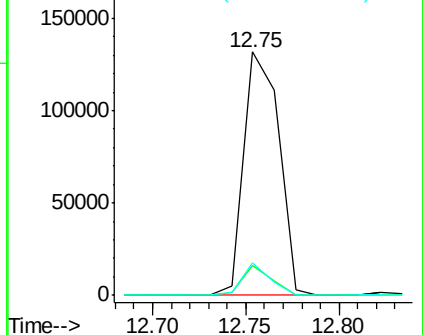
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.75 min Scan# 1012
Delta R.T. -0.00 min
Lab File: BF079324.D
Acq: 19 May 2015 1:05

Instrument :
BNA_F
ClientSampleId :
SB-08

Tot Ion:188 Resp: 172820
Ion Ratio Lower Upper
188 100
94 12.5 9.4 14.0
80 13.4 9.8 14.6

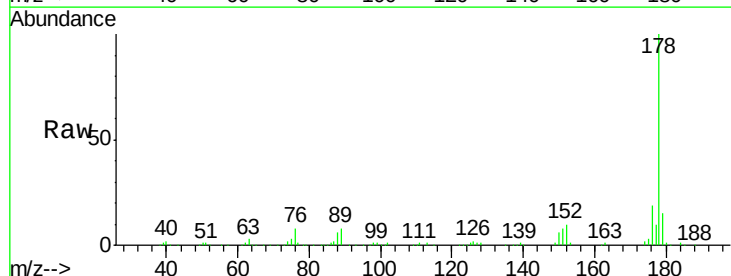


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

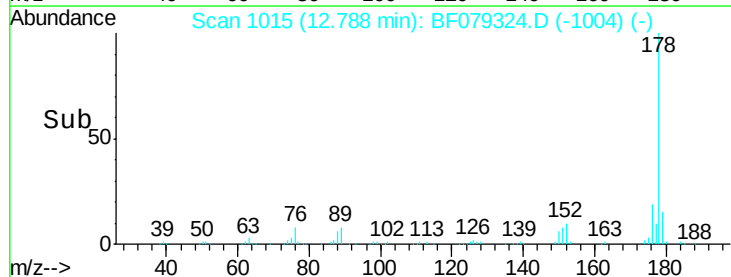
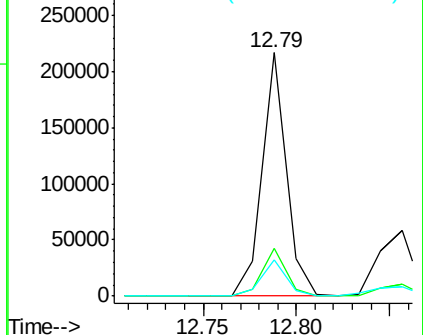


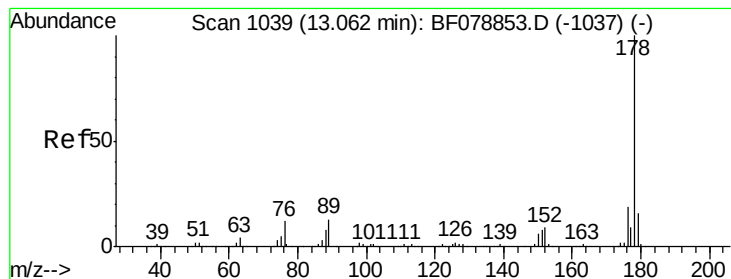
#70
Phenanthrene
Concen: 20.18 ng
RT: 12.79 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BF079324.D
Acq: 19 May 2015 1:05

Tgt Ion:178 Resp: 195125
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 14.9 12.2 18.4



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: 7.36 ng

RT: 12.86 min Scan# 1021

Delta R.T. 0.01 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

BNA_F

ClientSampleId :

SB-08

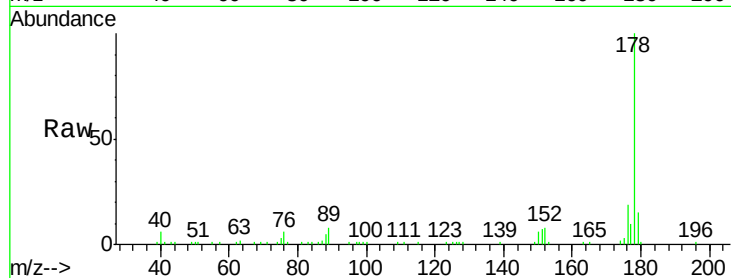
Tot Ion:178 Resp: 69850

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

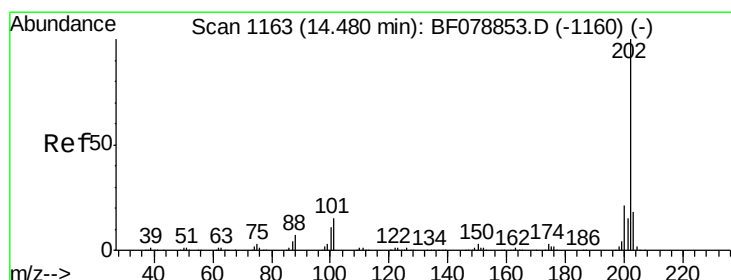
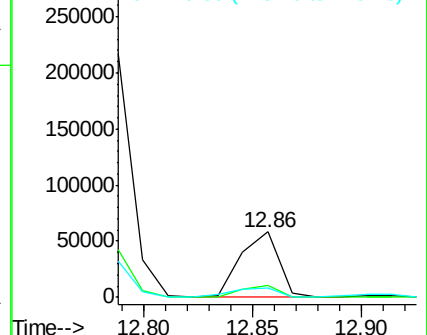
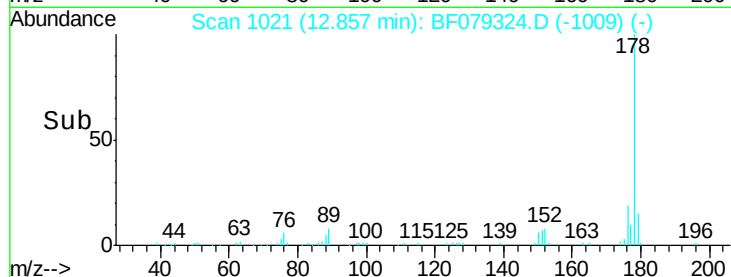
179 14.8 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 29.63 ng

RT: 14.26 min Scan# 1144

Delta R.T. -0.00 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

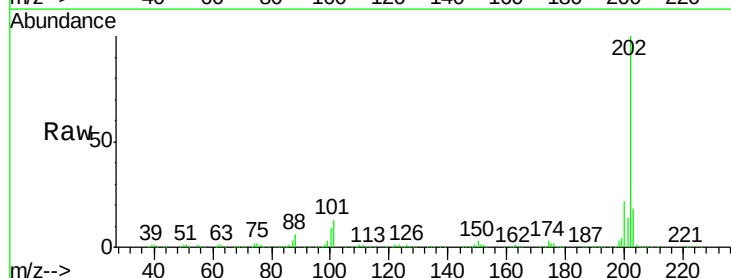
Tgt Ion:202 Resp: 298535

Ion Ratio Lower Upper

202 100

101 13.1 0.0 34.7

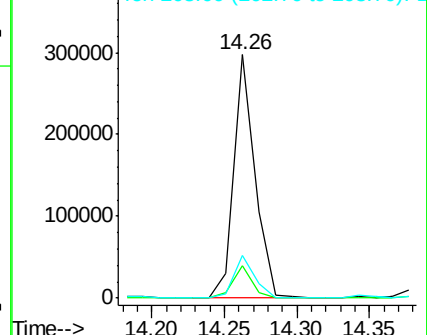
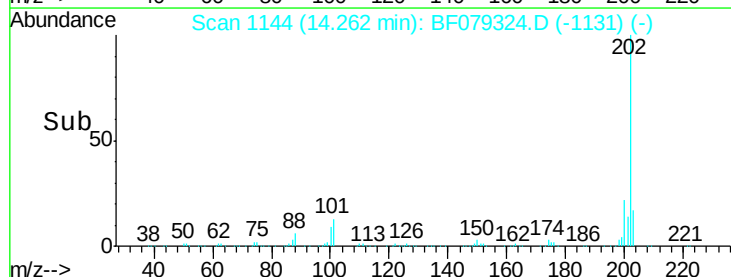
203 17.6 0.0 37.9

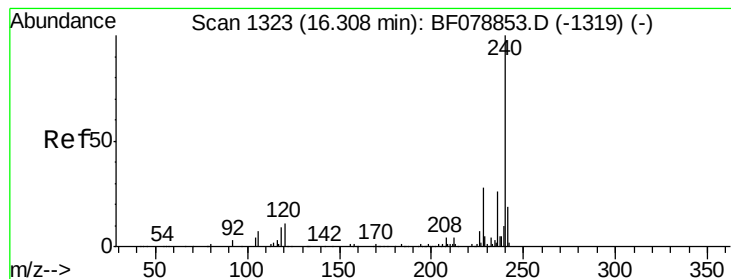


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

BNA_F

ClientSampleId :

SB-08

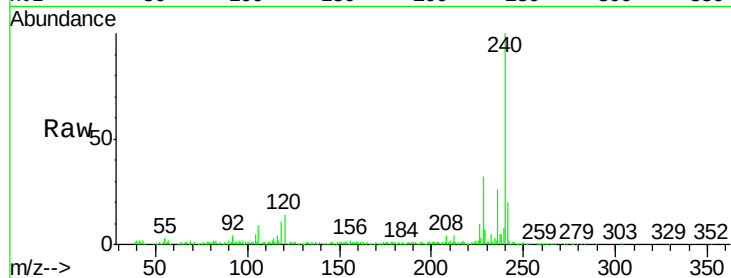
Tot Ion:240 Resp: 192333

Ion Ratio Lower Upper

240 100

120 13.6 8.6 12.8#

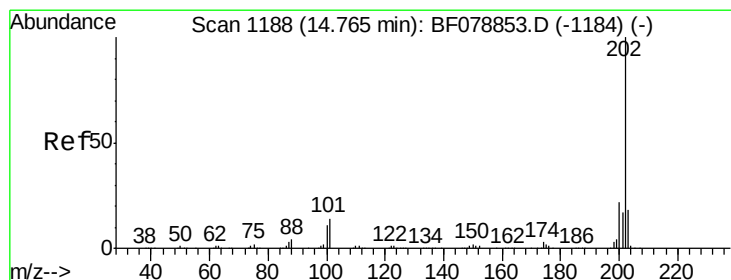
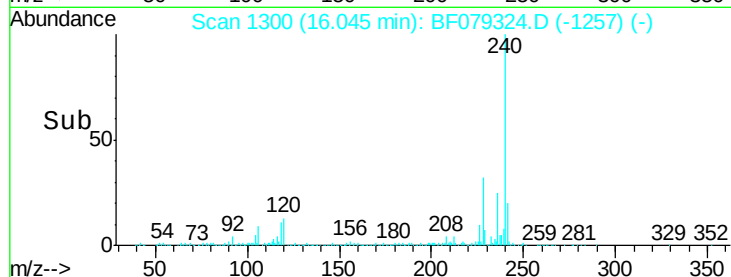
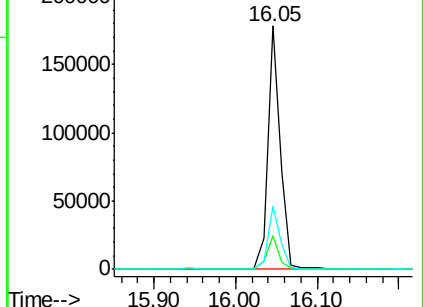
236 25.8 21.0 31.6



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

Pyrene

Concen: 26.83 ng

RT: 14.55 min Scan# 1169

Delta R.T. 0.01 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

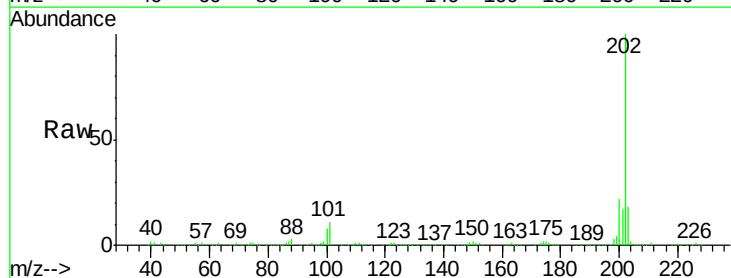
Tgt Ion:202 Resp: 297364

Ion Ratio Lower Upper

202 100

200 21.5 17.5 26.3

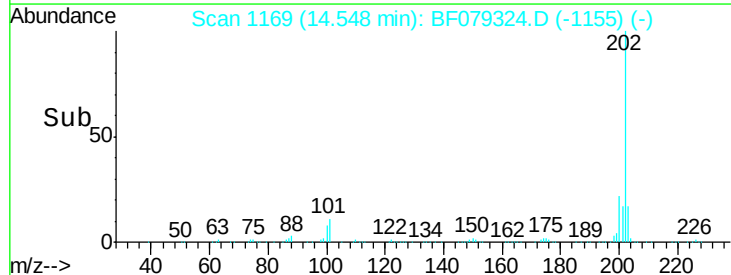
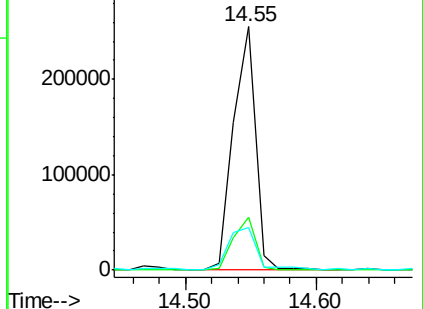
203 17.5 14.7 22.1

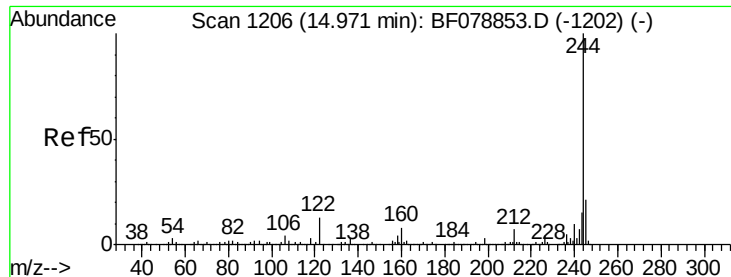


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 52.68 ng

RT: 14.75 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

BNA_F

ClientSampled :

SB-08

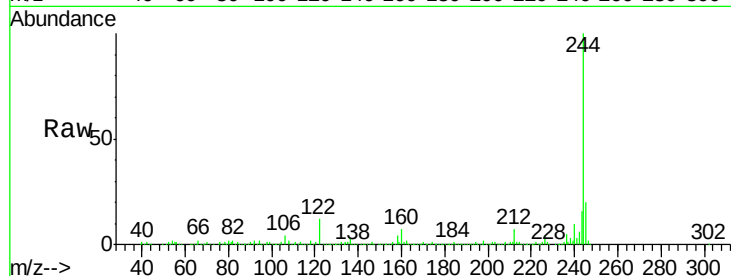
Tot Ion:244 Resp: 423181

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

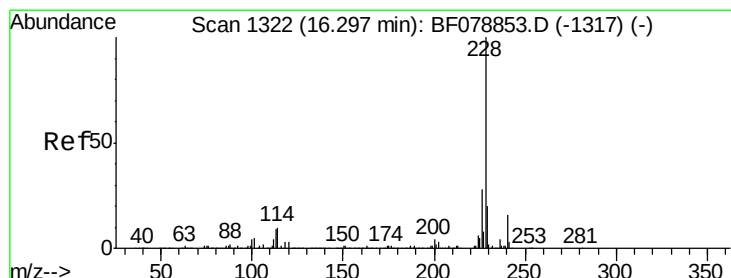
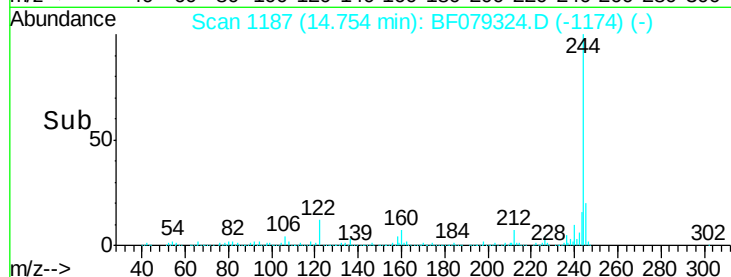
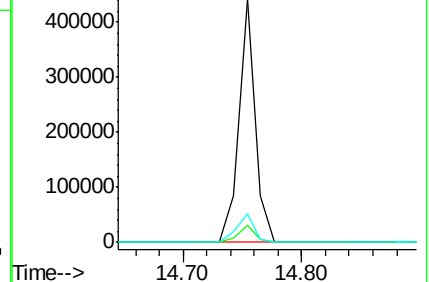
122 12.0 10.5 15.7



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: 16.98 ng m

RT: 16.03 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

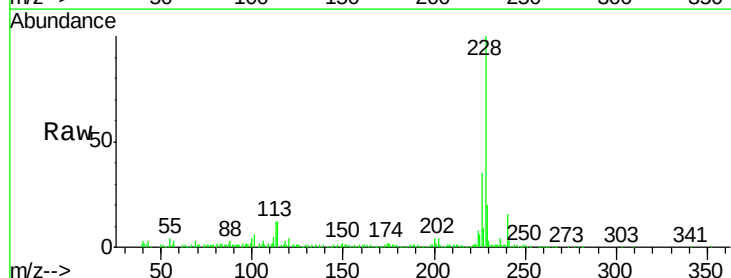
Tgt Ion:228 Resp: 178837

Ion Ratio Lower Upper

228 100

226 35.1 22.3 33.5#

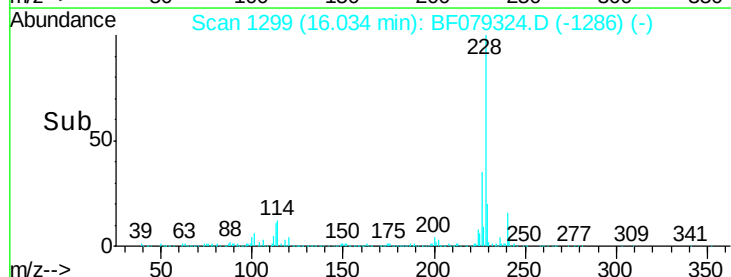
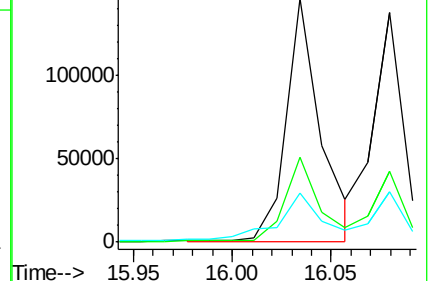
229 20.3 16.1 24.1

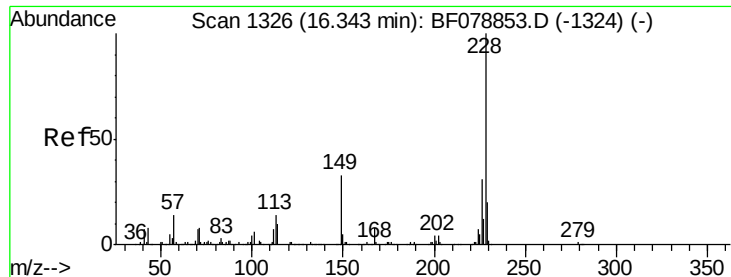


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 14.20 ng

RT: 16.08 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

BNA_F

ClientSampleId :

SB-08

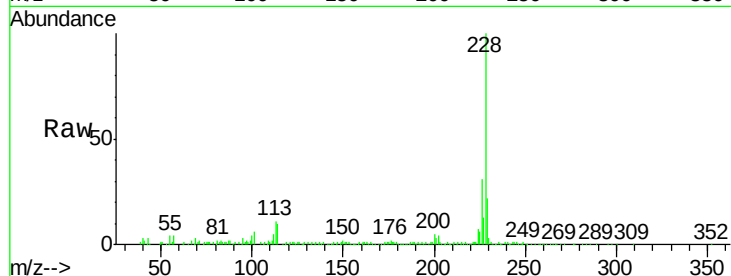
Tot Ion:228 Resp: 143805

Ion Ratio Lower Upper

228 100

226 31.1 24.8 37.2

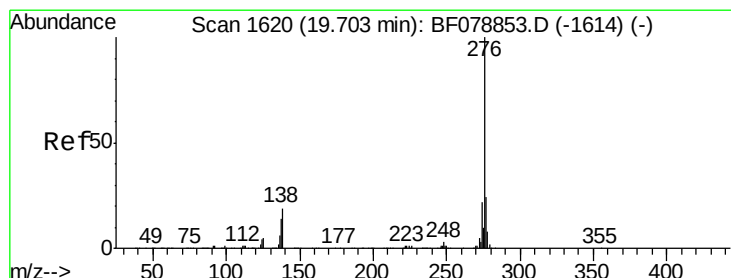
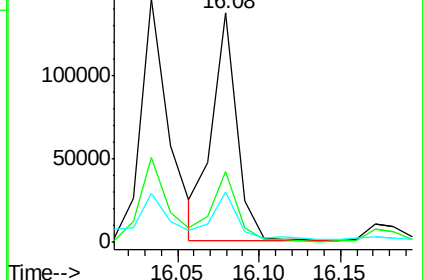
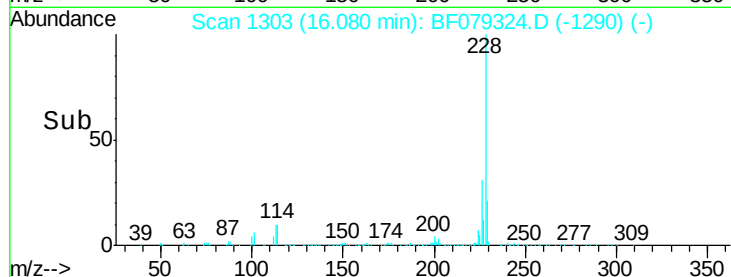
229 21.8 16.1 24.1



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: 6.80 ng

RT: 19.20 min Scan# 1576

Delta R.T. -0.07 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

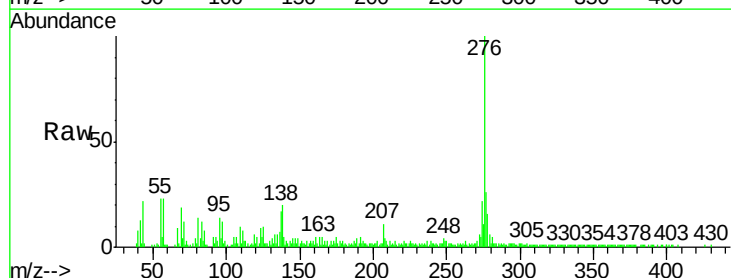
Tgt Ion:276 Resp: 87783

Ion Ratio Lower Upper

276 100

138 22.5 21.1 31.7

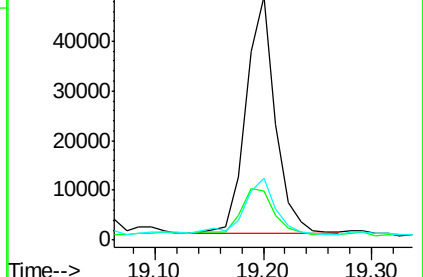
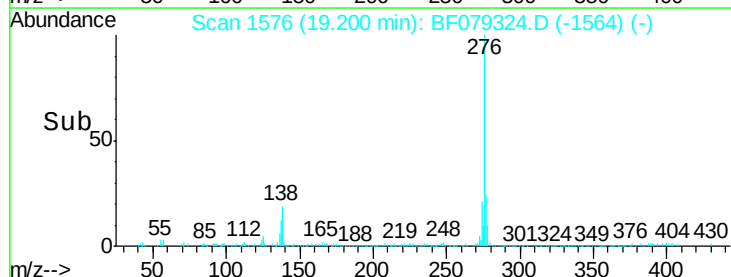
277 26.5 19.9 29.9

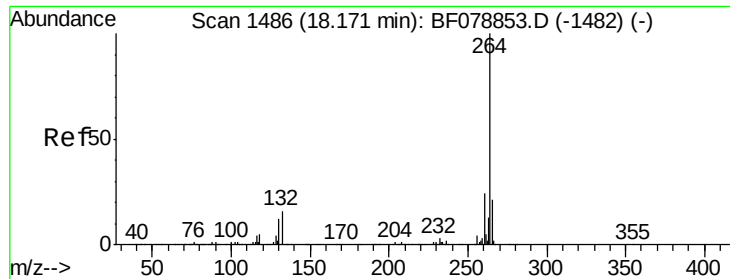


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

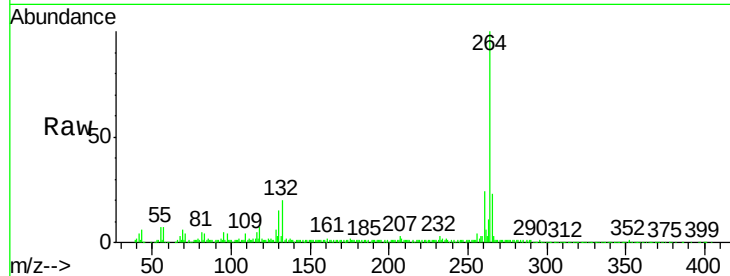




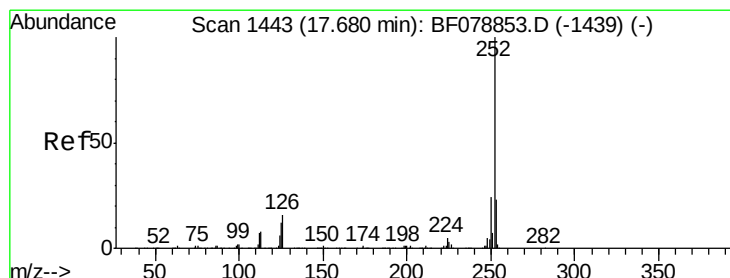
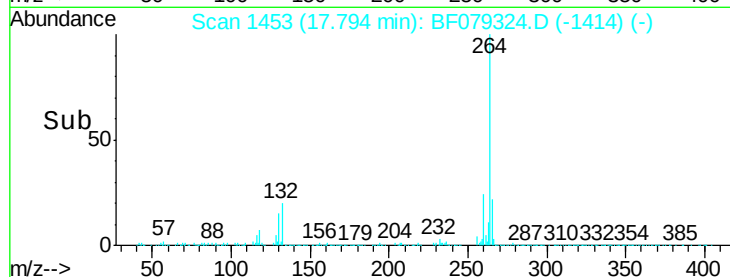
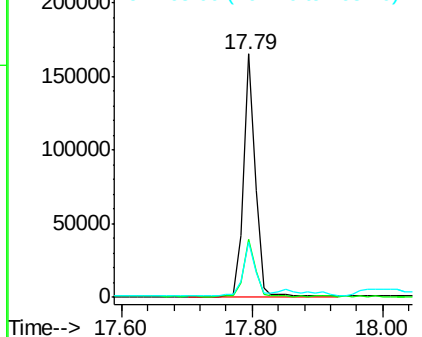
#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.79 min Scan# 1453
Delta R.T. -0.06 min
Lab File: BF079324.D
Acq: 19 May 2015 1:05

Instrument :
BNA_F
ClientSampled :
SB-08

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	22.6	17.2	25.8

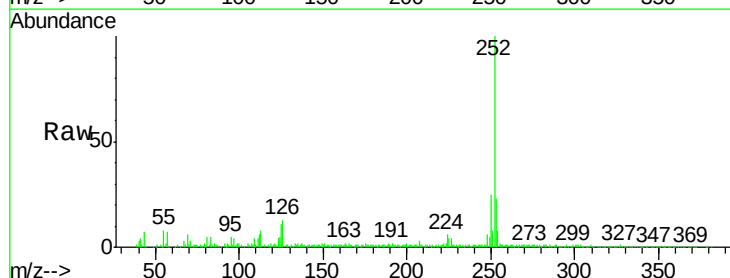


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

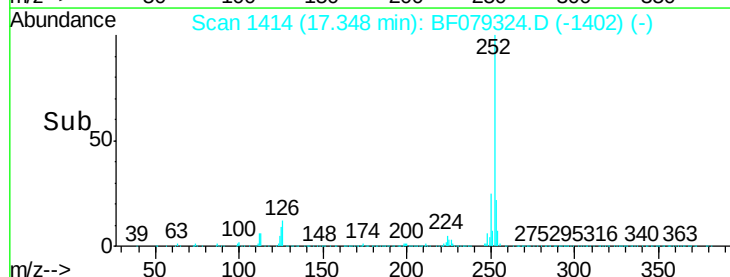
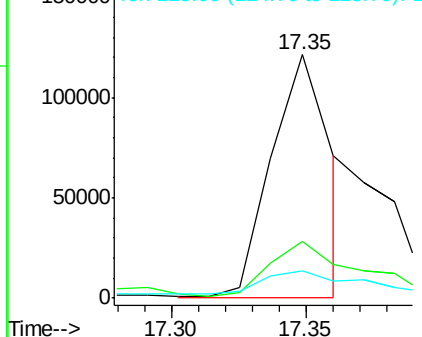


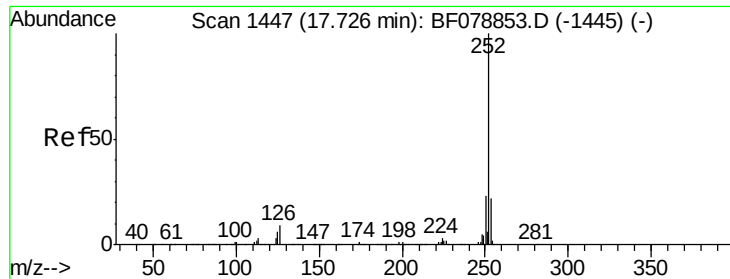
#87
Benzo(b)fluoranthene
Concen: 16.66 ng m
RT: 17.35 min Scan# 1414
Delta R.T. -0.05 min
Lab File: BF079324.D
Acq: 19 May 2015 1:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	11.1	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: 7.30 ng m

RT: 17.36 min Scan# 1415

Delta R.T. -0.07 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

BNA_F

ClientSampleId :

SB-08

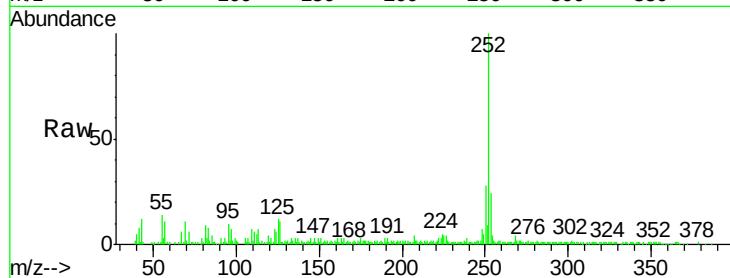
Tot Ion:252 Resp: 78168

Ion Ratio Lower Upper

252 100

253 23.8 17.4 26.0

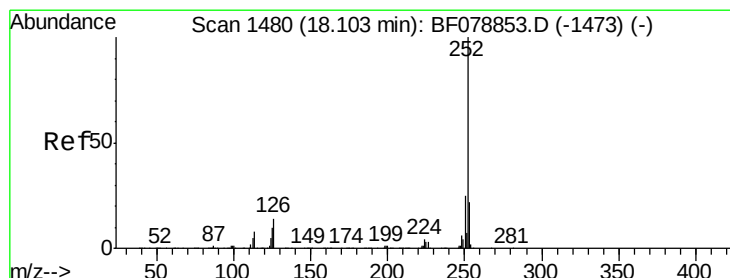
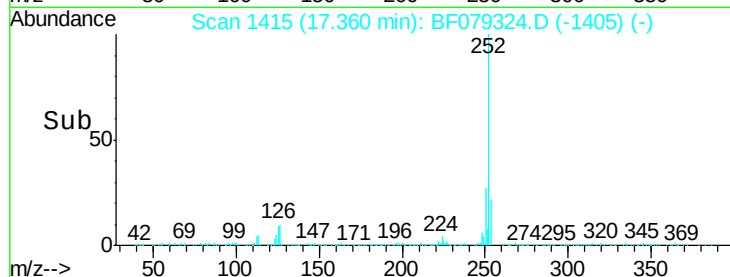
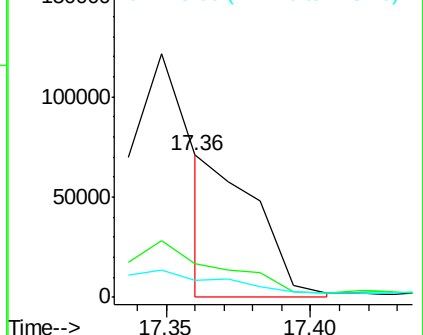
125 12.5 6.1 9.1#



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: 13.77 ng

RT: 17.73 min Scan# 1447

Delta R.T. -0.07 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

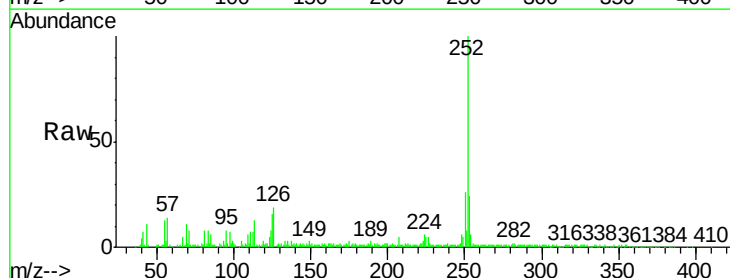
Tgt Ion:252 Resp: 140311

Ion Ratio Lower Upper

252 100

253 23.9 18.0 27.0

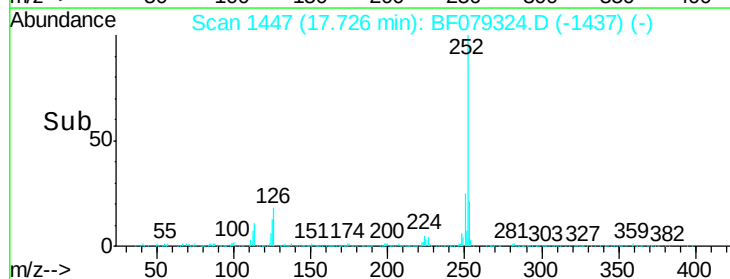
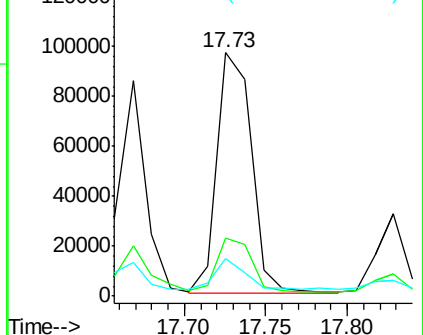
125 15.6 8.2 12.2#

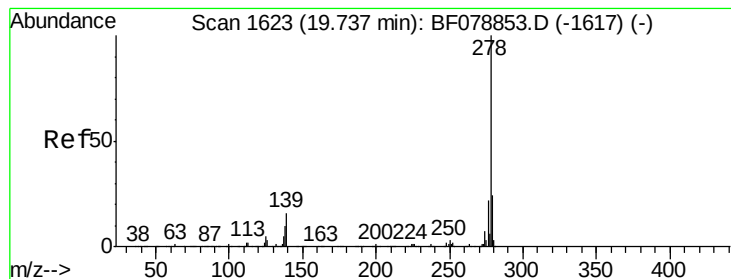


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.04 ng

RT: 19.21 min Scan# 1577

Delta R.T. -0.09 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

Instrument :

BNA_F

ClientSampleId :

SB-08

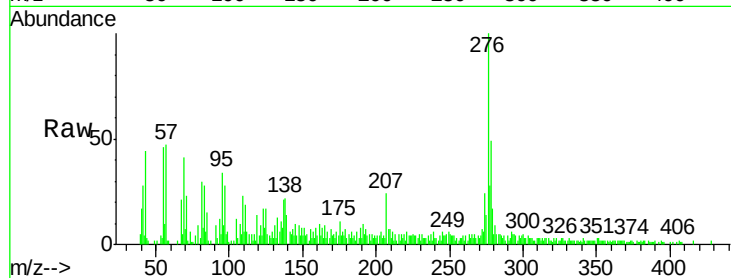
Tot Ion:278 Resp: 22108

Ion Ratio Lower Upper

278 100

139 29.3 13.1 19.7#

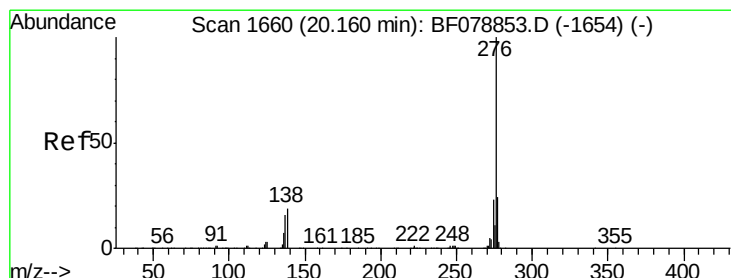
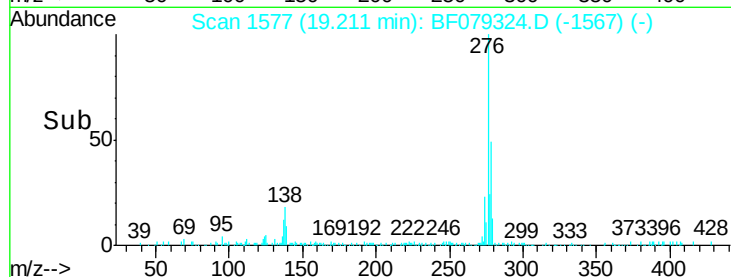
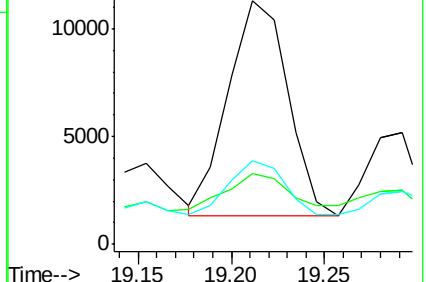
279 34.5 19.1 28.7#



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(g,h,i)perylene

Concen: 8.27 ng

RT: 19.61 min Scan# 1612

Delta R.T. -0.08 min

Lab File: BF079324.D

Acq: 19 May 2015 1:05

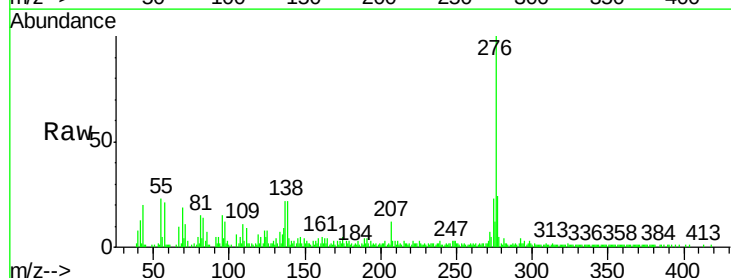
Tgt Ion:276 Resp: 89758

Ion Ratio Lower Upper

276 100

277 24.1 18.8 28.2

138 22.3 15.2 22.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

