

Data Path : Z:\HPCHEM1\BNA_F\Data\BF052915\
 Data File : BF079586.D
 Acq On : 30 May 2015 5:39
 Operator : TP/IZ
 Sample : G2294-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB402A(2.0-2.5)

Quant Time: May 30 06:10:33 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat May 30 05:55:29 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	83225	20.00	ng	-0.07
21) Naphthalene-d8	8.52	136	335910	20.00	ng	-0.07
38) Acenaphthene-d10	10.68	164	159610	20.00	ng	-0.08
63) Phenanthrene-d10	12.53	188	280475	20.00	ng	-0.07
75) Chrysene-d12	15.79	240	258282	20.00	ng	-0.08
86) Perylene-d12	17.50	264	282493	20.00	ng	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.23	112	79460	16.56	ng	-0.07
7) Phenol-d6	6.55	99	115064	18.81	ng	-0.07
23) Nitrobenzene-d5	7.66	82	65318	11.24	ng	-0.06
41) 2,4,6-Tribromophenol	11.67	330	29662	16.92	ng	-0.08
44) 2-Fluorobiphenyl	9.87	172	147364	13.17	ng	-0.07
78) Terphenyl-d14	14.51	244	137002	12.45	ng	-0.08

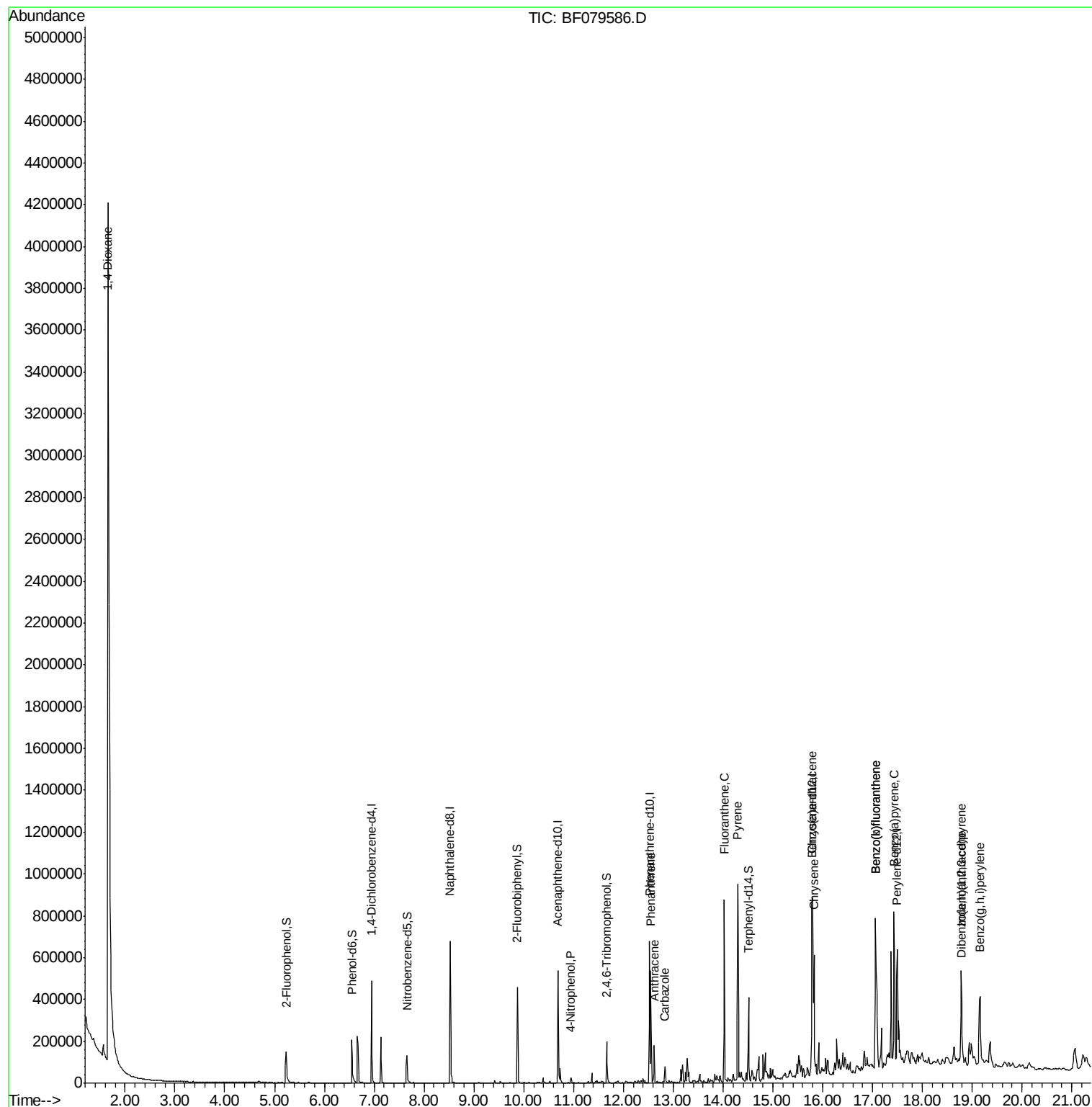
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.66	88	262005	114.78	ng	# 100
55) 4-Nitrophenol	10.95	139	5062	2.99	ng	# 12
70) Phenanthrene	12.55	178	241159	15.67	ng	100
71) Anthracene	12.62	178	79607	5.10	ng	98
72) Carbazole	12.83	167	36263	2.41	ng	99
73) Di-n-butylphthalate	13.29	149	984	Below Cal		# 48
74) Fluoranthene	14.02	202	380249	23.04	ng	98
77) Pyrene	14.30	202	408904	25.55	ng	# 95
80) Benzo(a)anthracene	15.78	228	319323	21.49	ng	98
82) Chrysene	15.83	228	246121	17.43	ng	97
85) Indeno(1,2,3-cd)pyrene	18.78	276	273779	15.07	ng	92
87) Benzo(b)fluoranthene	17.06	252	603748	37.47	ng	98
88) Benzo(k)fluoranthene	17.06	252	603748	41.90	ng	# 96
89) Benzo(a)pyrene	17.43	252	385156	26.47	ng	# 95
90) Dibenzo(a,h)anthracene	18.79	278	67188	3.13	ng	96
91) Benzo(g,h,i)perylene	19.15	276	280081	18.12	ng	95

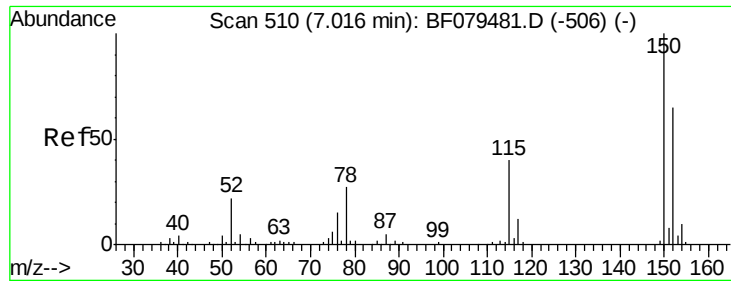
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.95 min Scan# 504

Delta R.T. -0.07 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

Instrument :

BNA_F

ClientSampleId :

HY-SB402A(2.0-2.5)

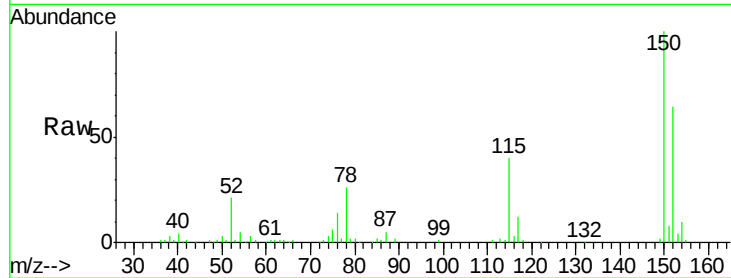
Tgt Ion:152 Resp: 83225

Ion Ratio Lower Upper

152 100

150 155.3 124.0 186.0

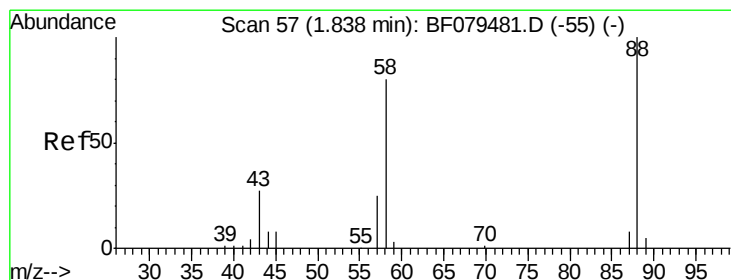
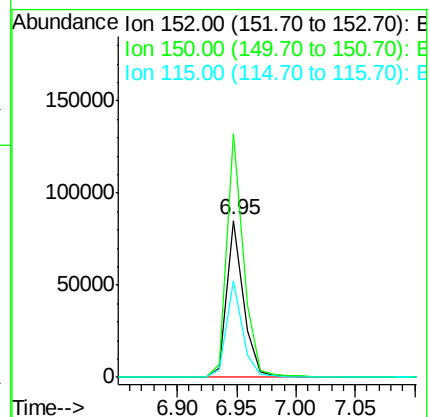
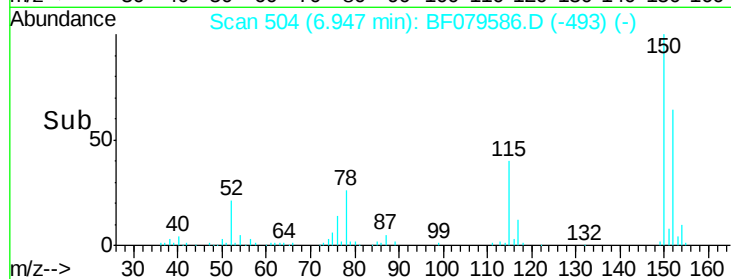
115 61.7 49.6 74.4



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



#2

1,4-Dioxane

Concen: 114.78 ng

RT: 1.66 min Scan# 41

Delta R.T. -0.18 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

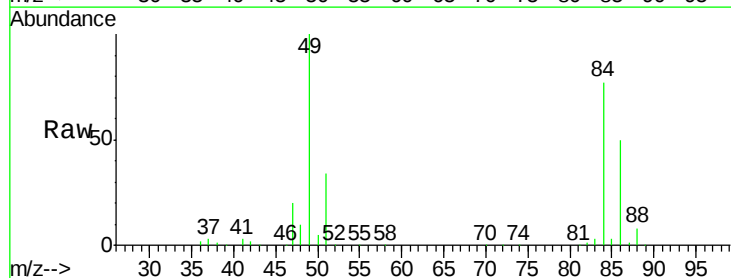
Tgt Ion: 88 Resp: 262005

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

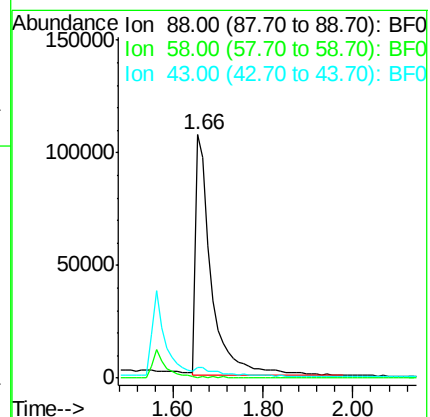
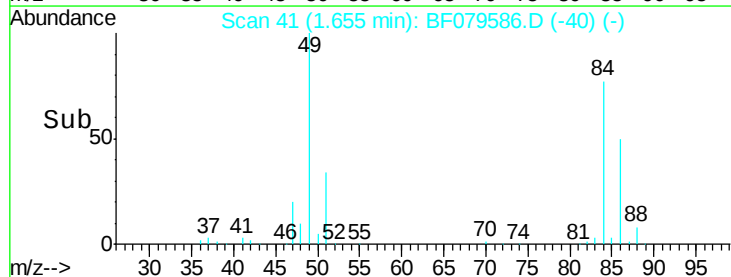
43 6.7 0.0 0.0#

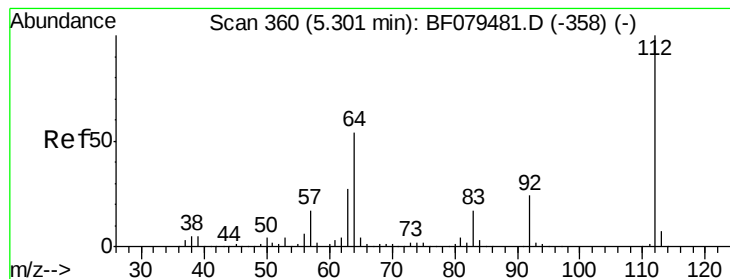


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 16.56 ng

RT: 5.23 min Scan# 354

Delta R.T. -0.07 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

Instrument :

BNA_F

ClientSampleId :

HY-SB402A(2.0-2.5)

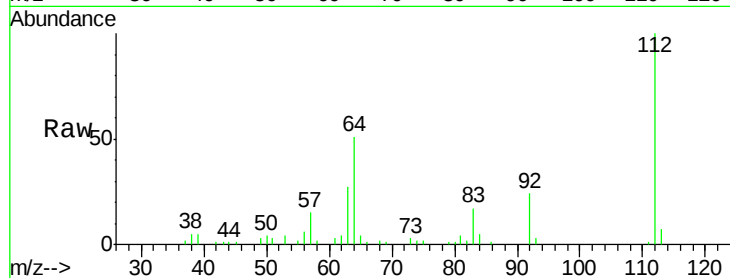
Tgt Ion: 112 Resp: 79460

Ion Ratio Lower Upper

112 100

64 51.2 43.5 65.3

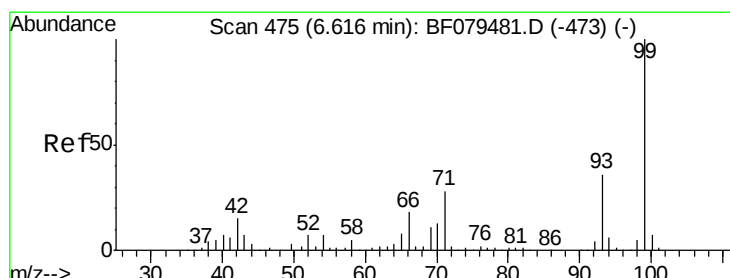
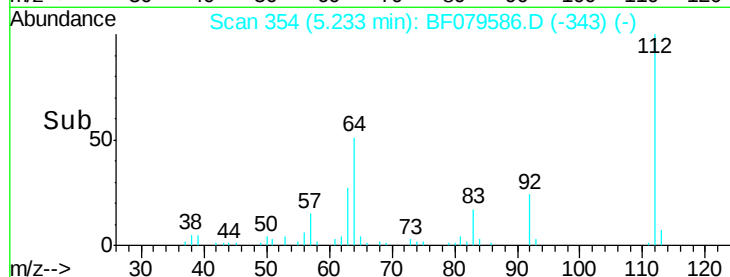
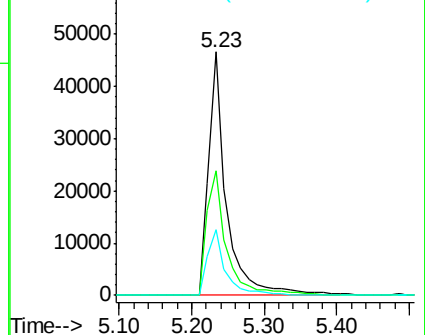
63 27.0 21.8 32.8



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: 18.81 ng

RT: 6.55 min Scan# 469

Delta R.T. -0.07 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

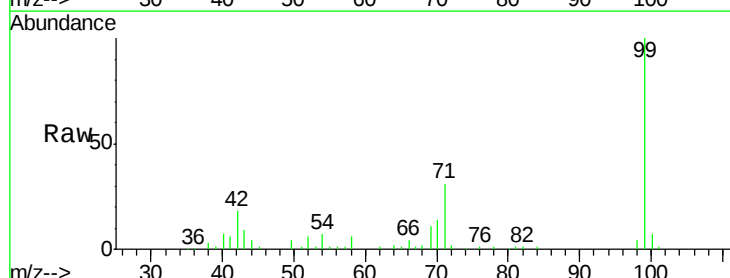
Tgt Ion: 99 Resp: 115064

Ion Ratio Lower Upper

99 100

42 17.9 11.9 17.9

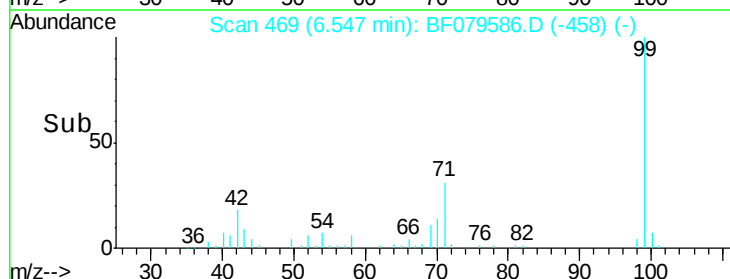
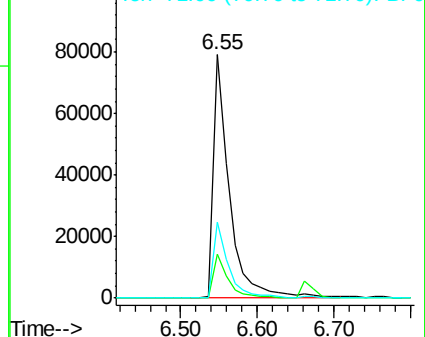
71 31.0 22.1 33.1



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

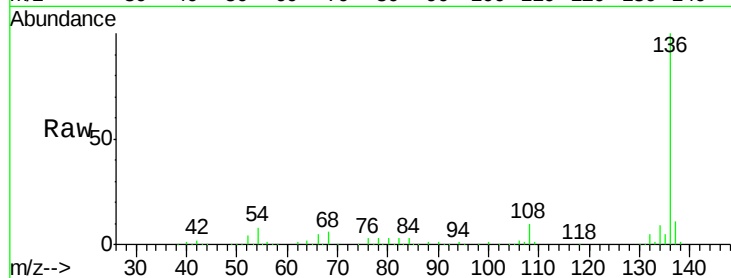




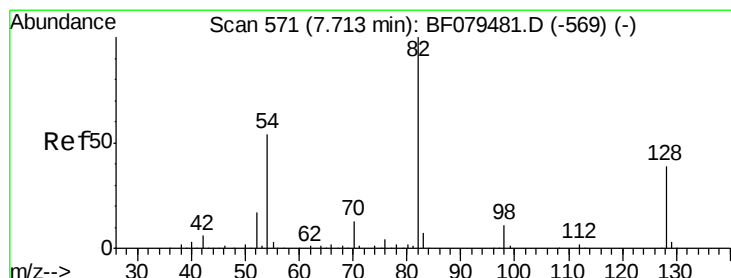
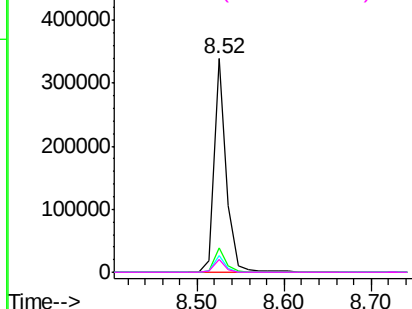
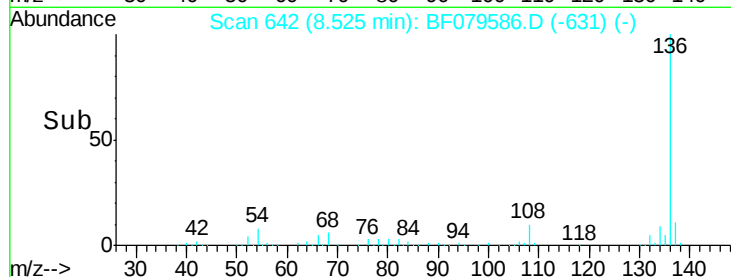
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.52 min Scan# 642
Delta R.T. -0.07 min
Lab File: BF079586.D
Acq: 30 May 2015 5:39

Instrument :
BNA_F
ClientSampleId :
HY-SB402A(2.0-2.5)

Tgt Ion:	136	Resp:	335910
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.5	12.7
54	8.1	6.6	9.8
68	6.3	4.7	7.1

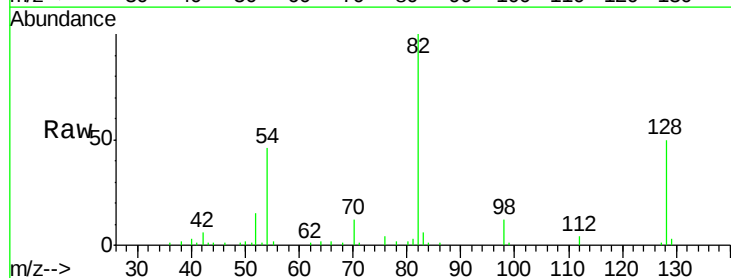


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

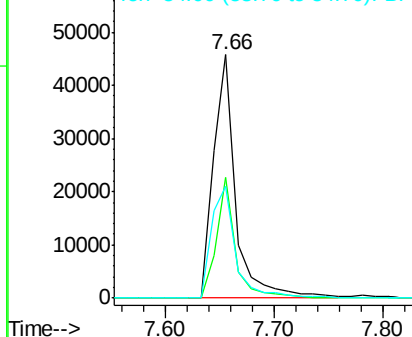
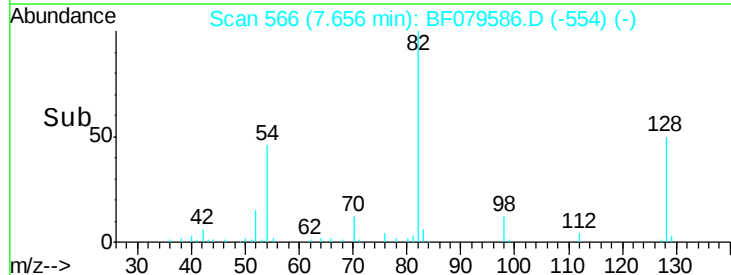


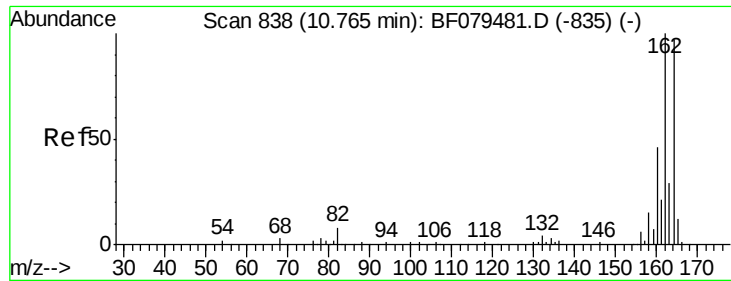
#23
Nitrobenzene-d5
Concen: 11.24 ng
RT: 7.66 min Scan# 566
Delta R.T. -0.06 min
Lab File: BF079586.D
Acq: 30 May 2015 5:39

Tgt Ion:	82	Resp:	65318
Ion	Ratio	Lower	Upper
82	100		
128	49.7	30.8	46.2#
54	45.8	42.8	64.2



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

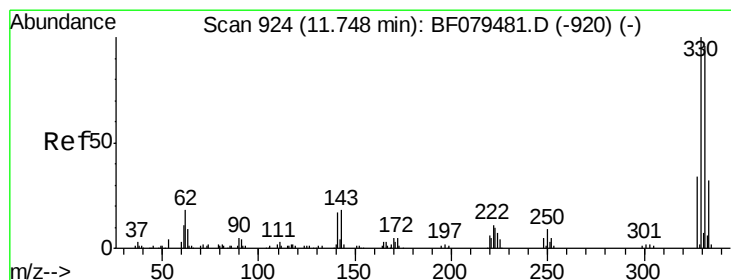
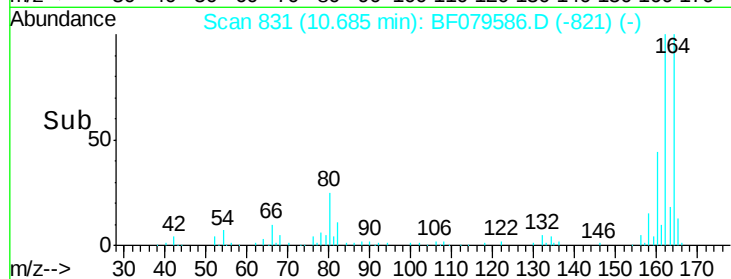
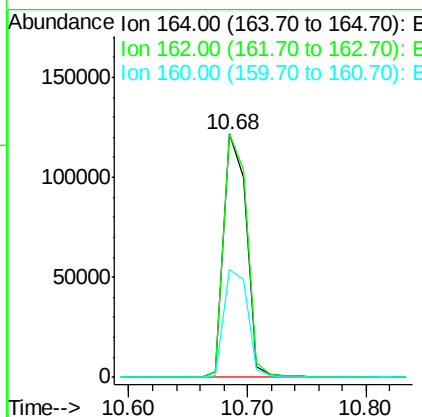
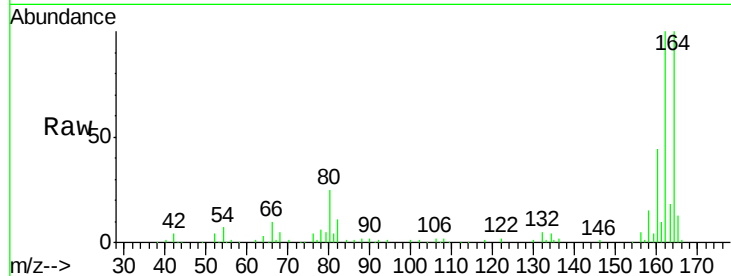




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.68 min Scan# 831
 Delta R.T. -0.08 min
 Lab File: BF079586.D
 Acq: 30 May 2015 5:39

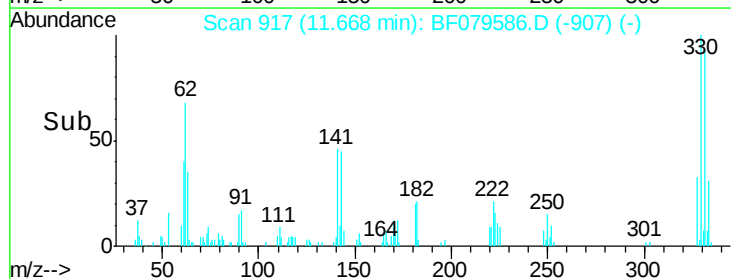
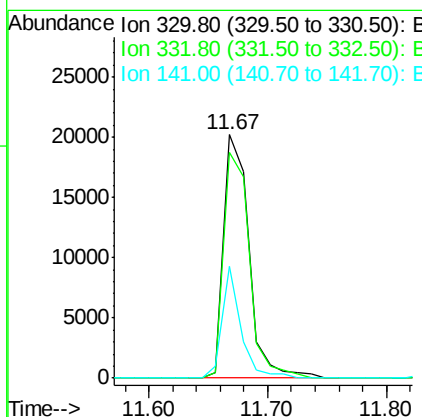
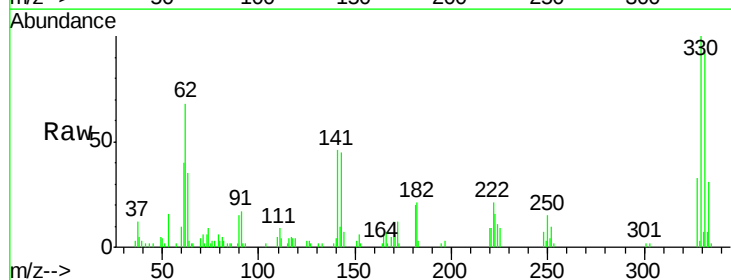
Instrument :
 BNA_F
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 HY-SB402A(2.0-2.5)

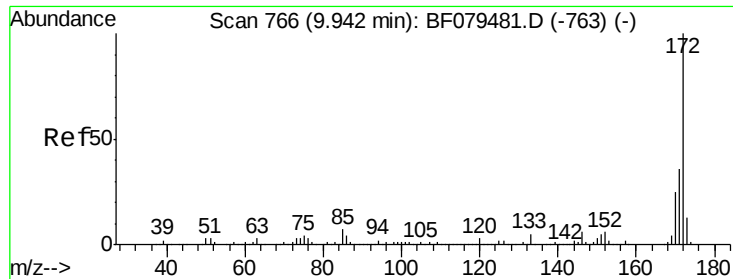
Tgt Ion:164 Resp: 159610
 Ion Ratio Lower Upper
 164 100
 162 100.2 82.6 124.0
 160 44.3 37.7 56.5



#41
 2,4,6-Tribromophenol
 Concen: 16.92 ng
 RT: 11.67 min Scan# 917
 Delta R.T. -0.08 min
 Lab File: BF079586.D
 Acq: 30 May 2015 5:39

Tgt Ion:330 Resp: 29662
 Ion Ratio Lower Upper
 330 100
 332 94.5 0.0 0.0#
 141 34.0 0.0 0.0#

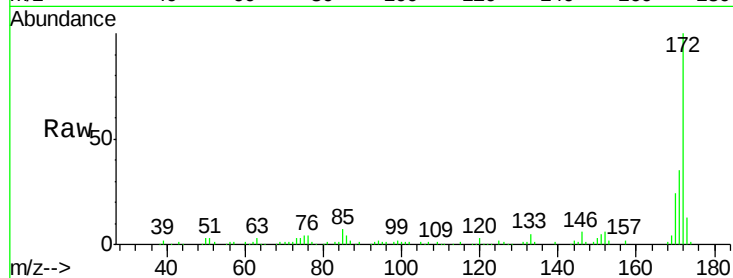




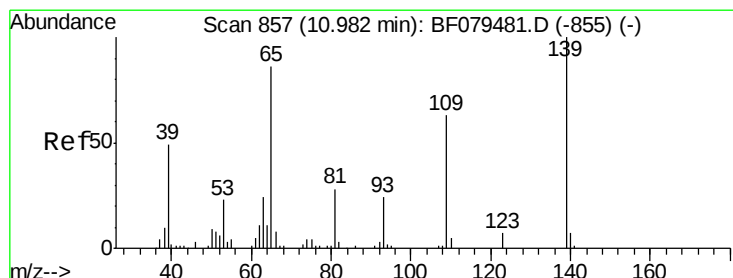
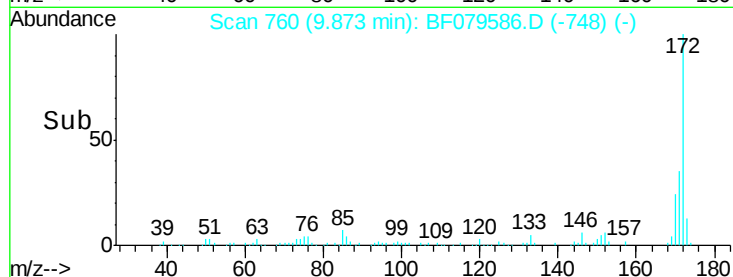
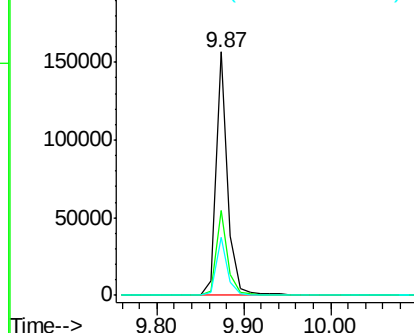
#44
 2-Fluorobiphenyl
 Concen: 13.17 ng
 RT: 9.87 min Scan# 760
 Delta R.T. -0.07 min
 Lab File: BF079586.D
 Acq: 30 May 2015 5:39

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB402A(2.0-2.5)

Tgt Ion:172 Resp: 147364
 Ion Ratio Lower Upper
 172 100
 171 34.7 28.5 42.7
 170 23.8 19.7 29.5

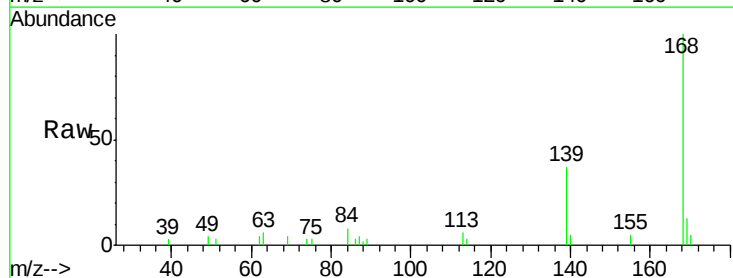


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

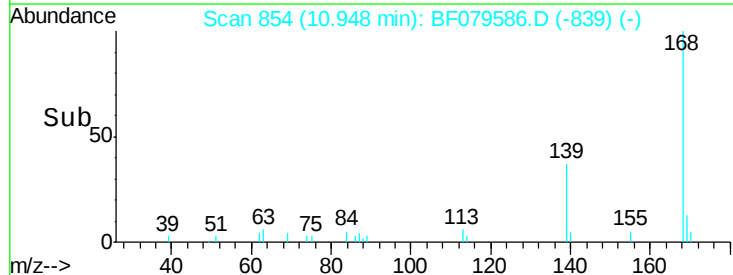
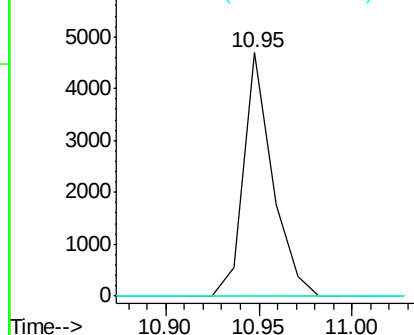


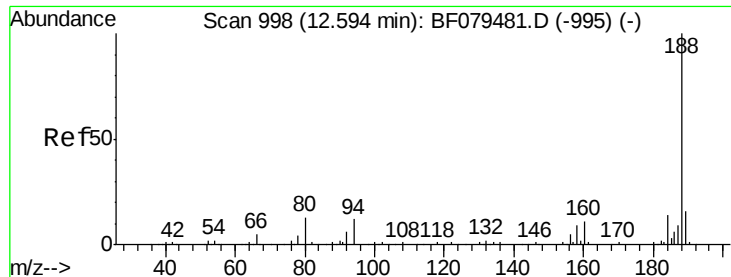
#55
 4-Nitrophenol
 Concen: 2.99 ng
 RT: 10.95 min Scan# 854
 Delta R.T. -0.03 min
 Lab File: BF079586.D
 Acq: 30 May 2015 5:39

Tgt Ion:139 Resp: 5062
 Ion Ratio Lower Upper
 139 100
 109 0.0 42.8 82.8#
 65 0.0 66.3 106.3#



Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF0

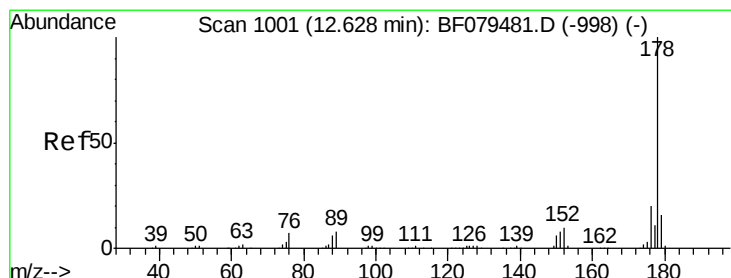
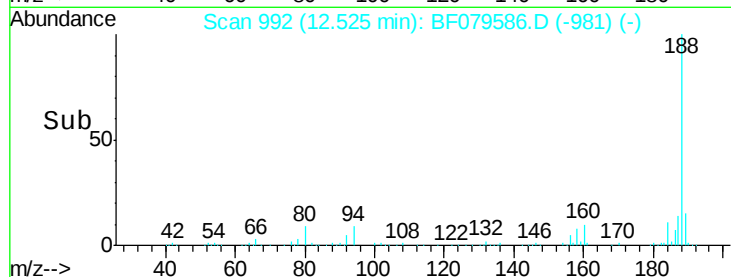
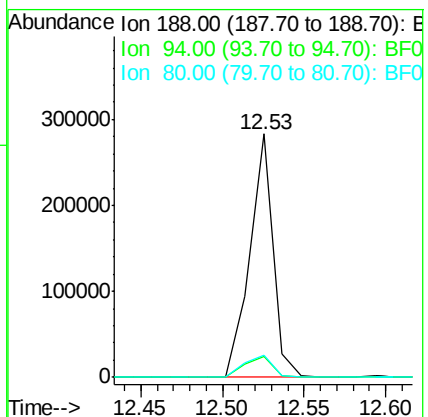
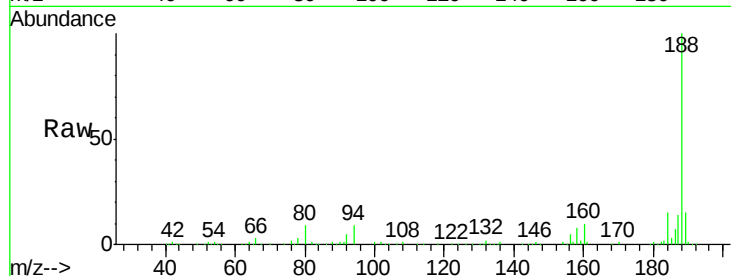




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.53 min Scan# 992
Delta R.T. -0.07 min
Lab File: BF079586.D
Acq: 30 May 2015 5:39

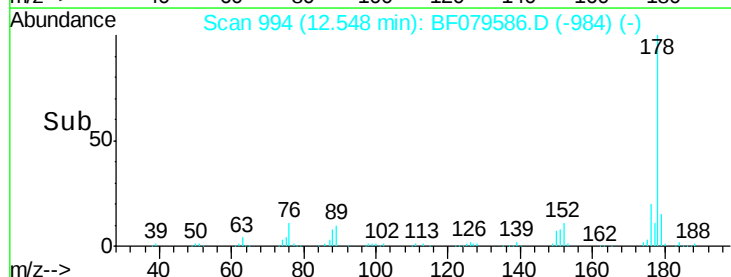
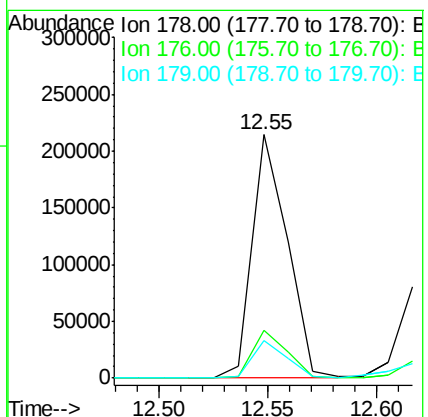
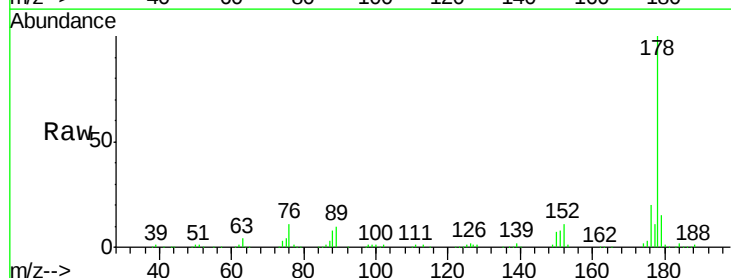
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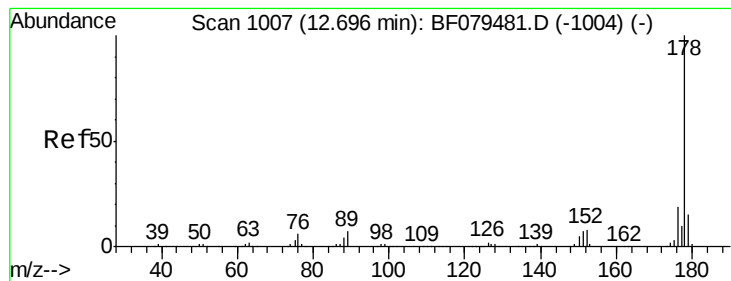
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.7	9.8	14.6#
80	9.1	10.5	15.7#



#70
Phenanthrene
Concen: 15.67 ng
RT: 12.55 min Scan# 994
Delta R.T. -0.08 min
Lab File: BF079586.D
Acq: 30 May 2015 5:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.4	12.4	18.6





#71

Anthracene

Concen: 5.10 ng

RT: 12.62 min Scan# 1000

Delta R.T. -0.08 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

Instrument :

BNA_F

ClientSampleId :

HY-SB402A(2.0-2.5)

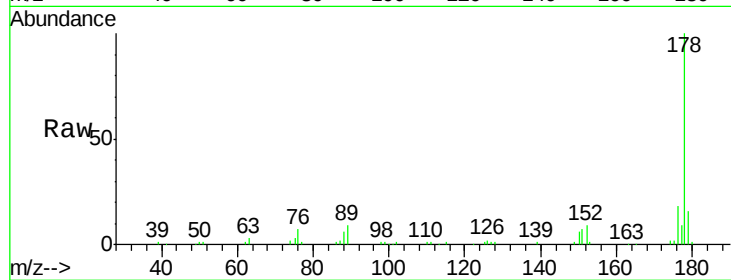
Tgt Ion:178 Resp: 79607

Ion Ratio Lower Upper

178 100

176 18.3 15.3 22.9

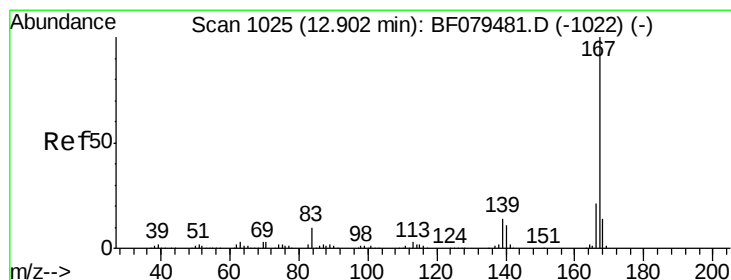
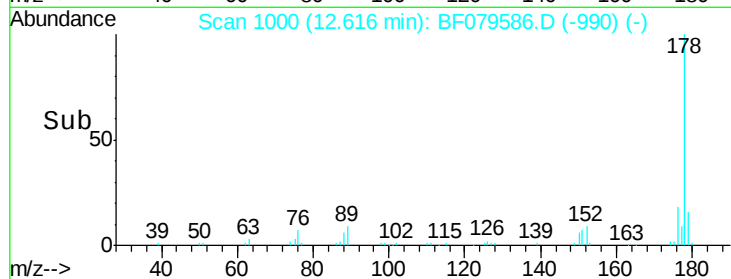
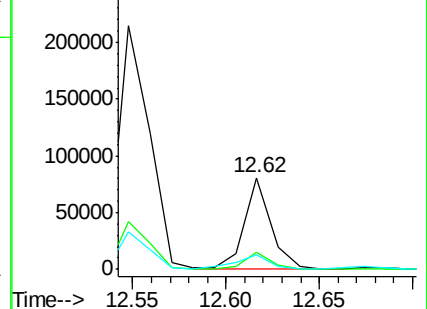
179 15.9 12.2 18.4



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



#72

Carbazole

Concen: 2.41 ng

RT: 12.83 min Scan# 1019

Delta R.T. -0.07 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

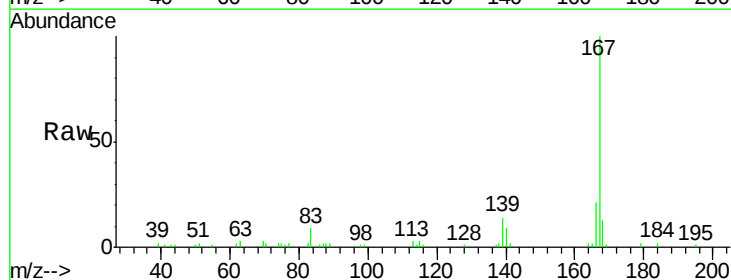
Tgt Ion:167 Resp: 36263

Ion Ratio Lower Upper

167 100

166 20.9 17.0 25.4

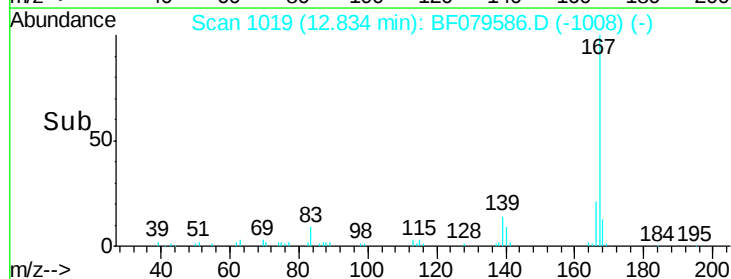
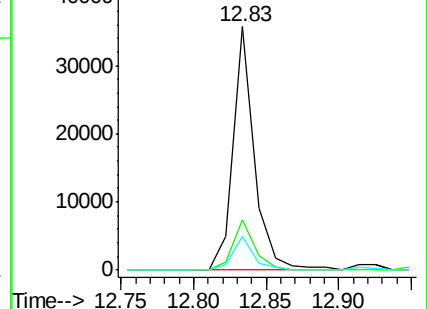
139 13.8 11.2 16.8

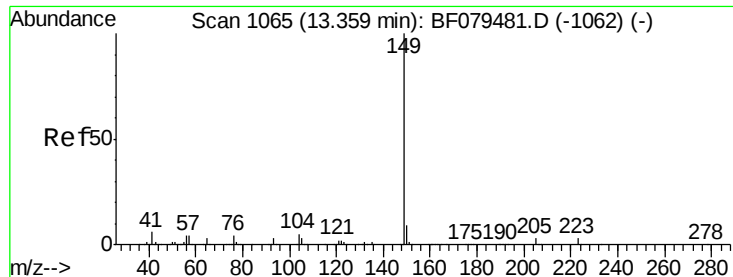


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: Below Cal

RT: 13.29 min Scan# 1059

Delta R.T. -0.07 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

Instrument :

BNA_F

ClientSampleId :

HY-SB402A(2.0-2.5)

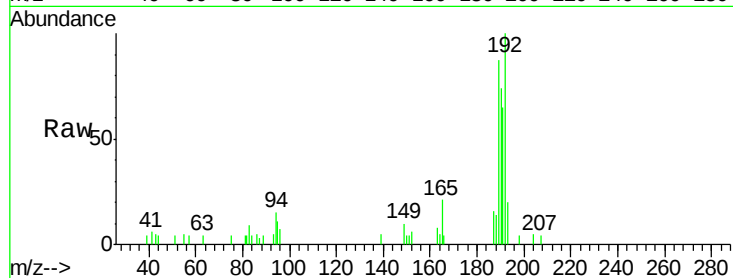
Tgt Ion:149 Resp: 984

Ion Ratio Lower Upper

149 100

150 34.8 7.5 11.3#

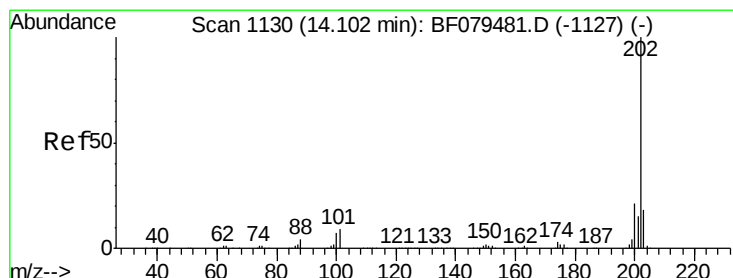
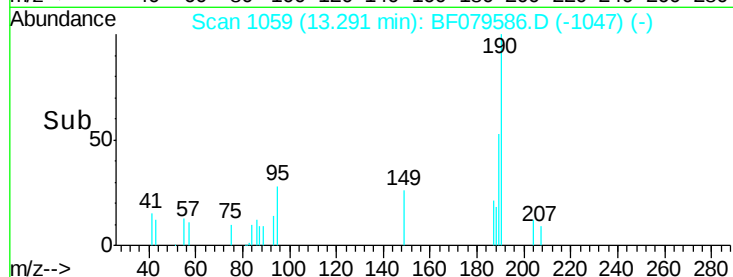
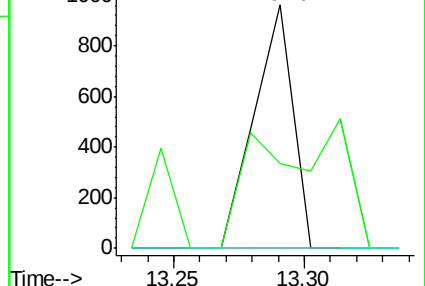
104 0.0 3.6 5.4#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 23.04 ng

RT: 14.02 min Scan# 1123

Delta R.T. -0.08 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

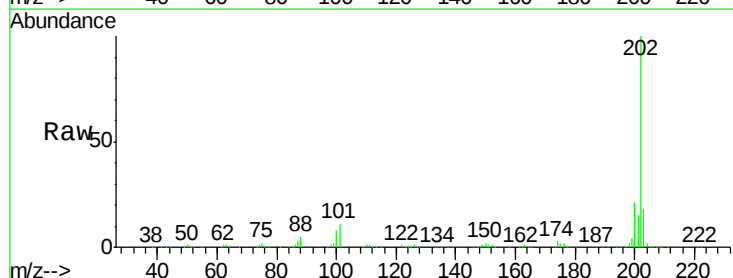
Tgt Ion:202 Resp: 380249

Ion Ratio Lower Upper

202 100

101 11.0 0.0 29.3

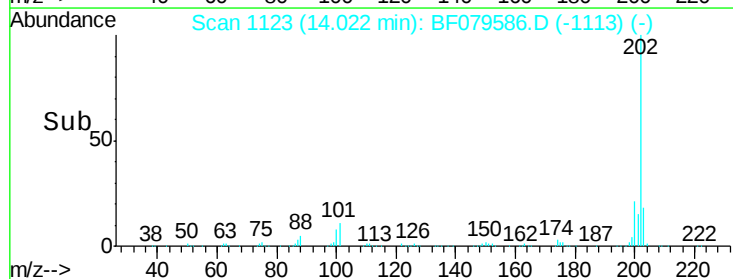
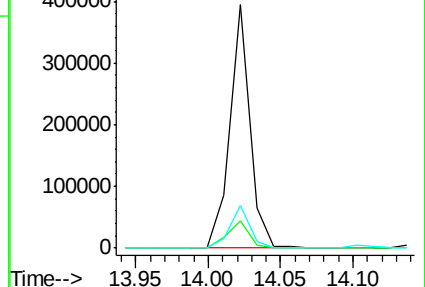
203 17.5 0.0 37.6

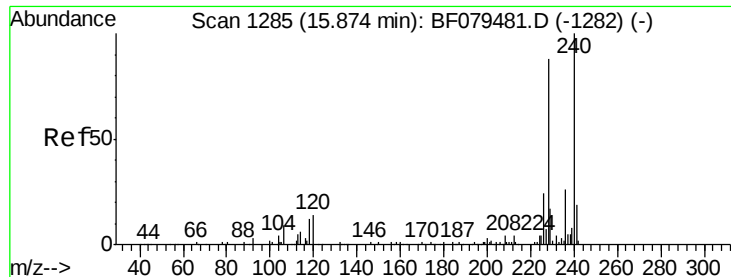


Abundance Ion 202.00 (201.70 to 202.70): E

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: 15.79 min Scan# 1278

Delta R.T. -0.08 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

Instrument :

BNA_F

ClientSampleId :

HY-SB402A(2.0-2.5)

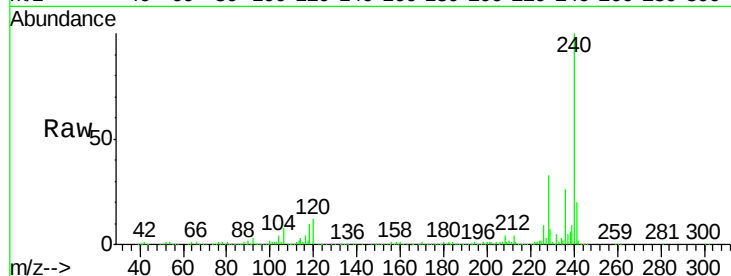
Tgt Ion:240 Resp: 258282

Ion Ratio Lower Upper

240 100

120 12.1 10.8 16.2

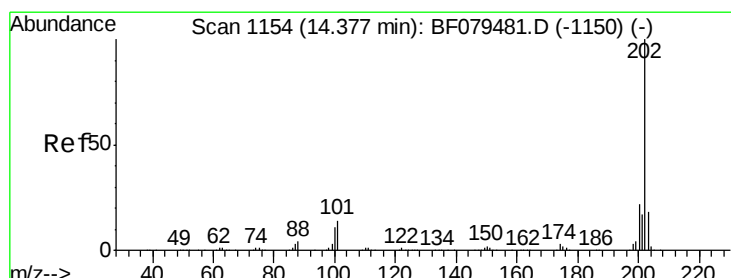
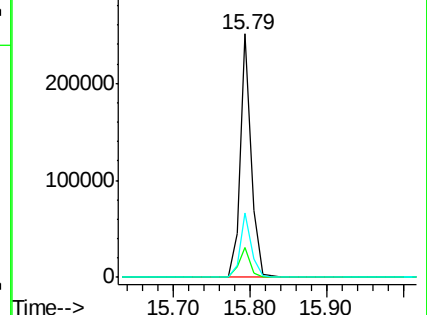
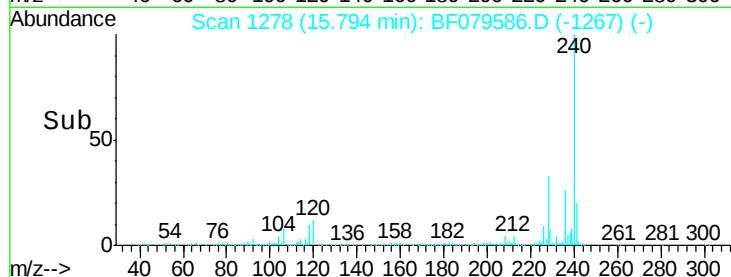
236 26.3 21.0 31.6



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: 25.55 ng

RT: 14.30 min Scan# 1147

Delta R.T. -0.08 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

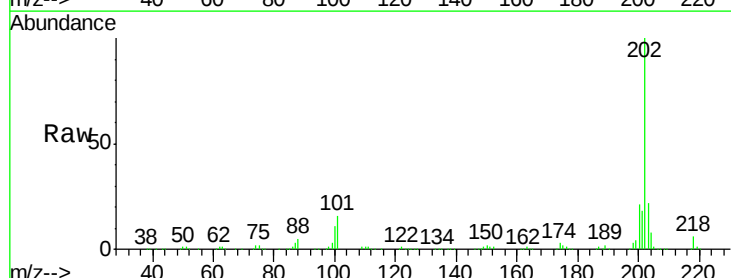
Tgt Ion:202 Resp: 408904

Ion Ratio Lower Upper

202 100

200 21.3 17.5 26.3

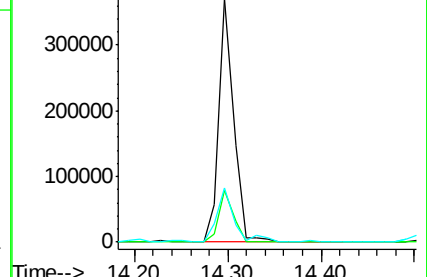
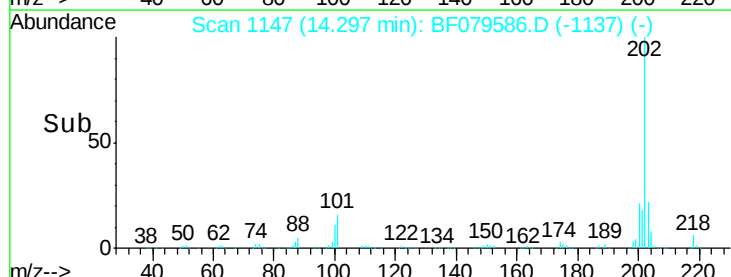
203 22.3 14.4 21.6#

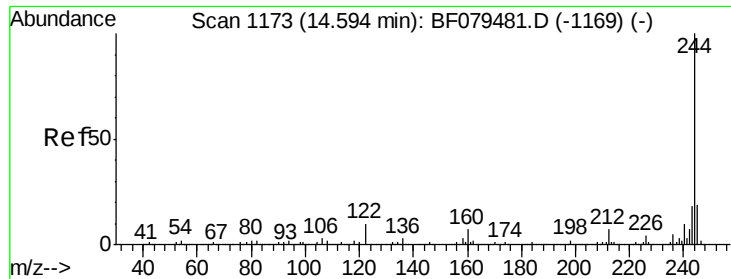


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

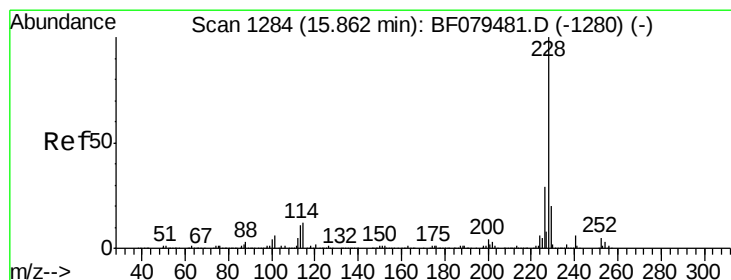
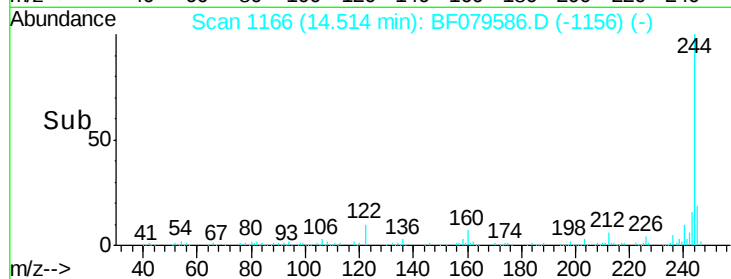
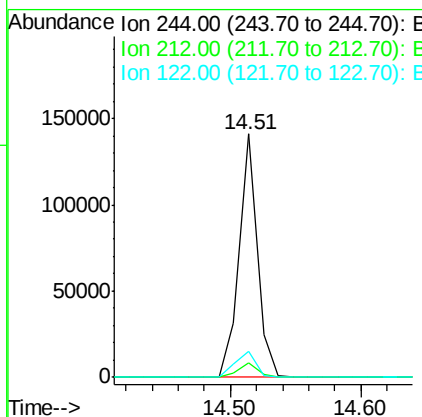
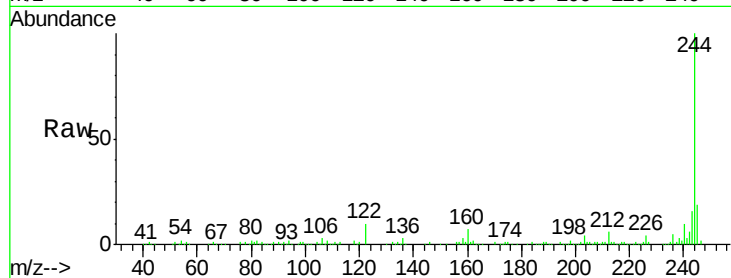




#78
 Terphenyl-d14
 Concen: 12.45 ng
 RT: 14.51 min Scan# 1166
 Delta R.T. -0.08 min
 Lab File: BF079586.D
 Acq: 30 May 2015 5:39

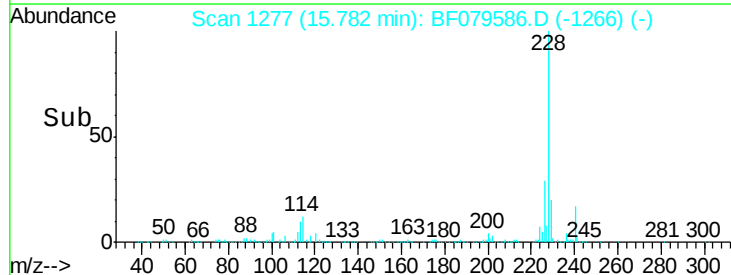
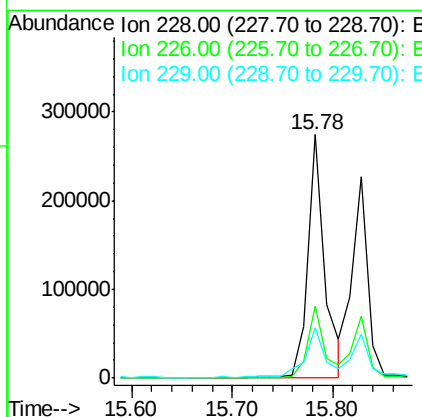
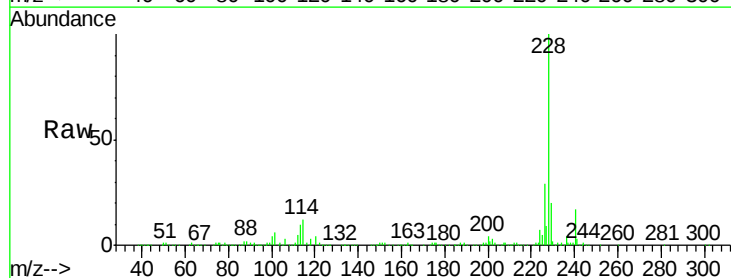
Instrument :
 BNA_F
 ClientSampleId :
 HY-SB402A(2.0-2.5)

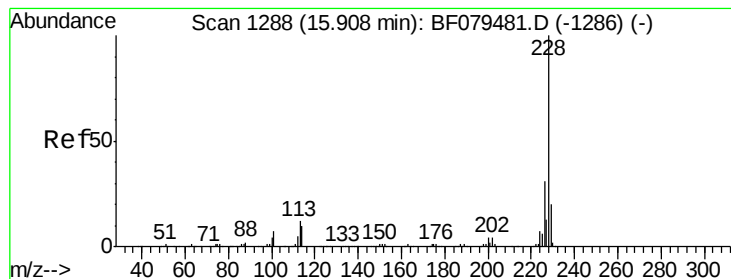
Tgt Ion: 244 Resp: 137002
 Ion Ratio Lower Upper
 244 100
 212 6.0 5.2 7.8
 122 10.5 8.0 12.0



#80
 Benzo(a)anthracene
 Concen: 21.49 ng
 RT: 15.78 min Scan# 1277
 Delta R.T. -0.08 min
 Lab File: BF079586.D
 Acq: 30 May 2015 5:39

Tgt Ion: 228 Resp: 319323
 Ion Ratio Lower Upper
 228 100
 226 29.5 22.8 34.2
 229 20.5 15.9 23.9





#82

Chrysene

Concen: 17.43 ng

RT: 15.83 min Scan# 1281

Delta R.T. -0.08 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

Instrument :

BNA_F

ClientSampleId :

HY-SB402A(2.0-2.5)

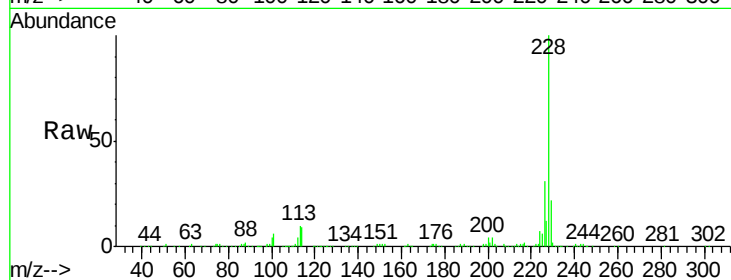
Tgt Ion: 228 Resp: 246121

Ion Ratio Lower Upper

228 100

226 30.7 25.0 37.4

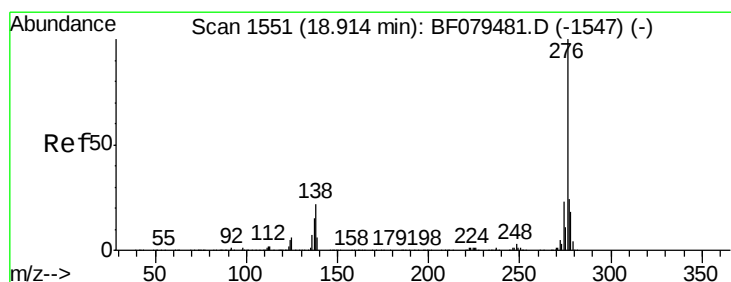
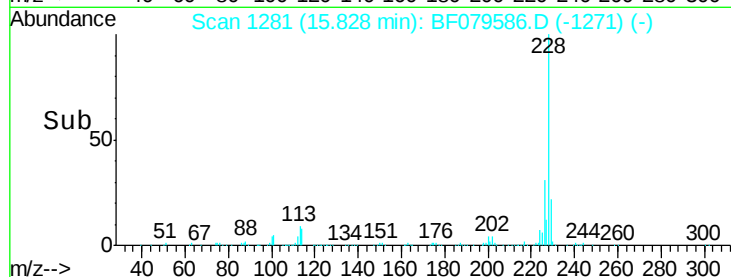
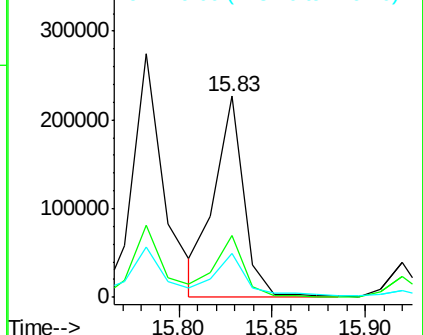
229 22.2 15.9 23.9



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: 15.07 ng

RT: 18.78 min Scan# 1539

Delta R.T. -0.14 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

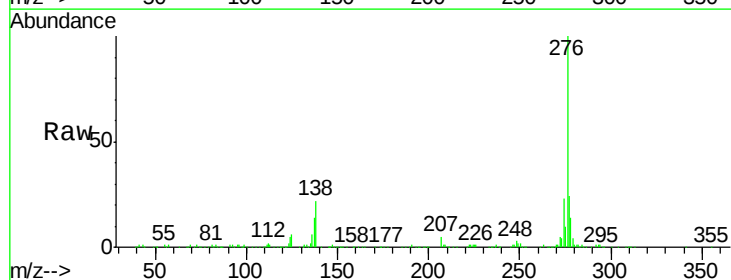
Tgt Ion: 276 Resp: 273779

Ion Ratio Lower Upper

276 100

138 23.1 21.4 32.2

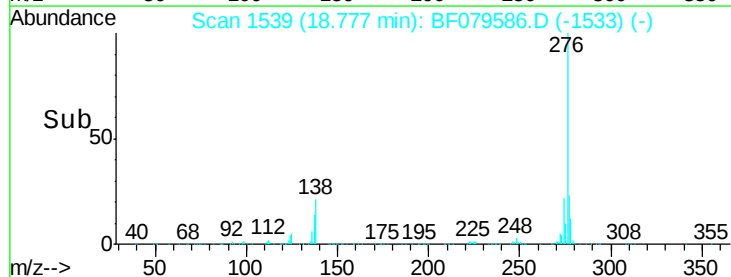
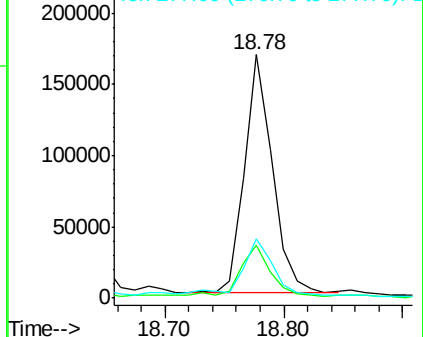
277 29.6 19.8 29.6

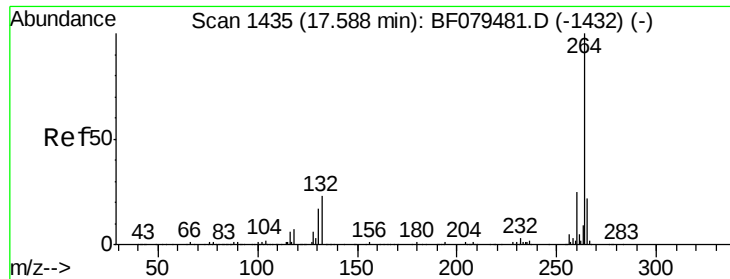


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



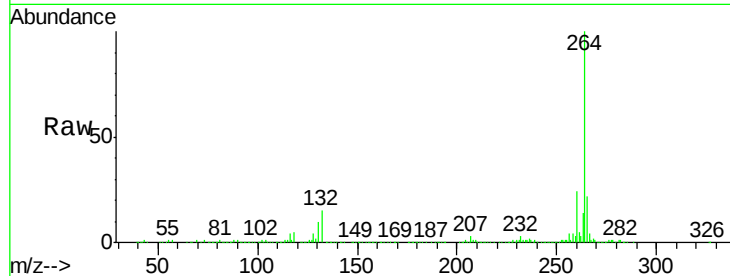


#86
Perylene-d12
Concen: 20.00 ng
RT: 17.50 min Scan# 1427
Delta R.T. -0.09 min
Lab File: BF079586.D
Acq: 30 May 2015 5:39

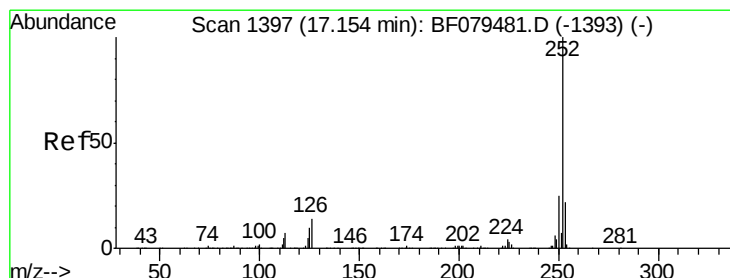
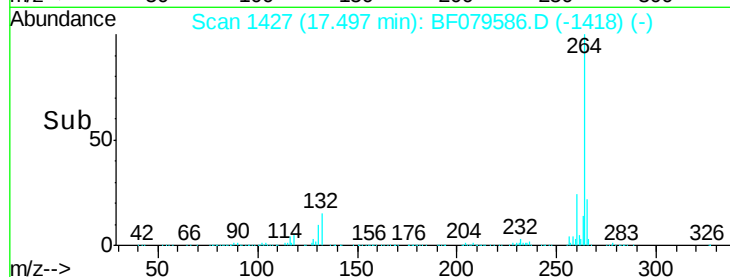
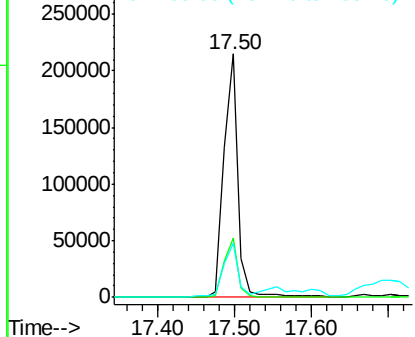
Instrument :
BNA_F
ClientSampleId :
HY-SB402A(2.0-2.5)

Tgt Ion: 264 Resp: 282493

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.8	29.8
265	22.3	17.8	26.6



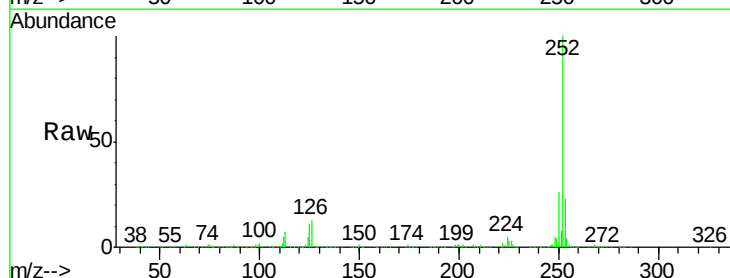
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



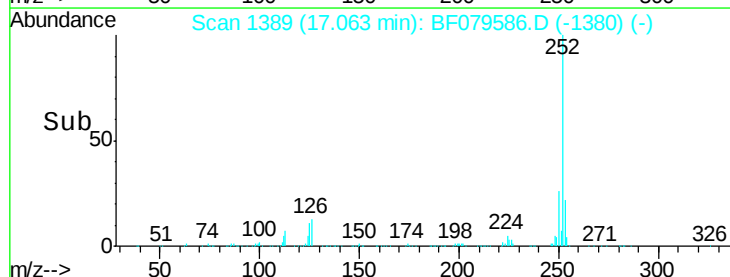
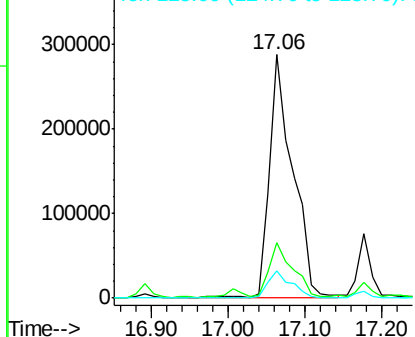
#87
Benzo(b)fluoranthene
Concen: 37.47 ng
RT: 17.06 min Scan# 1389
Delta R.T. -0.09 min
Lab File: BF079586.D
Acq: 30 May 2015 5:39

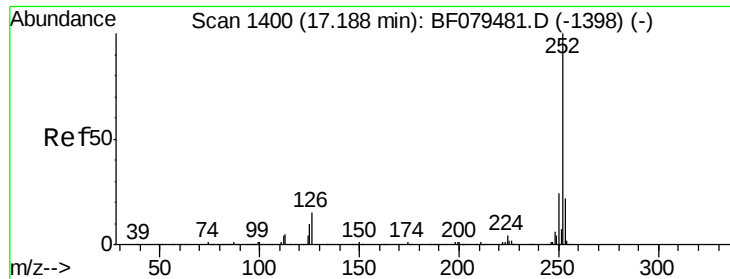
Tgt Ion: 252 Resp: 603748

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.6	26.4
125	11.3	7.8	11.6



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: 41.90 ng

RT: 17.06 min Scan# 1389

Delta R.T. -0.13 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

Instrument :

BNA_F

ClientSampleId :

HY-SB402A(2.0-2.5)

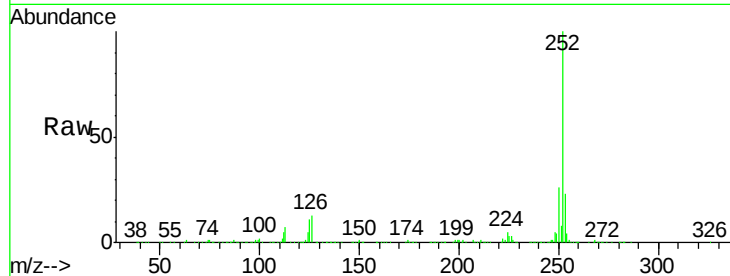
Tgt Ion:252 Resp: 603748

Ion Ratio Lower Upper

252 100

253 22.7 17.2 25.8

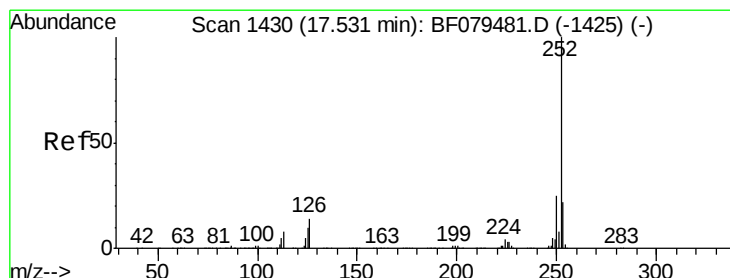
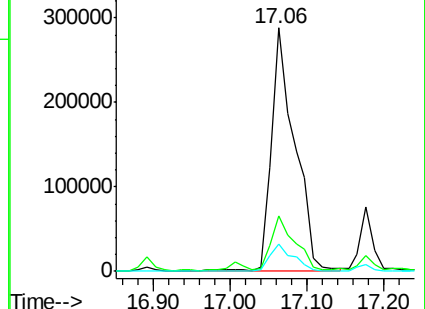
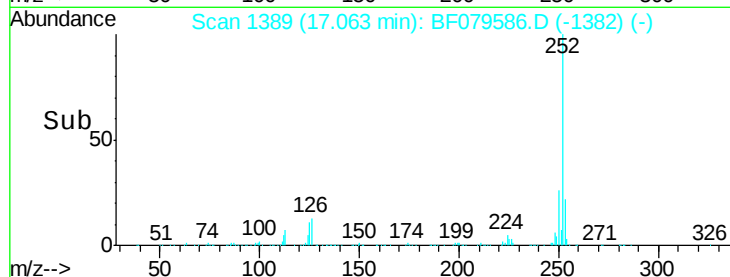
125 11.3 6.8 10.2#



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



#89

Benzo(a)pyrene

Concen: 26.47 ng

RT: 17.43 min Scan# 1421

Delta R.T. -0.10 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

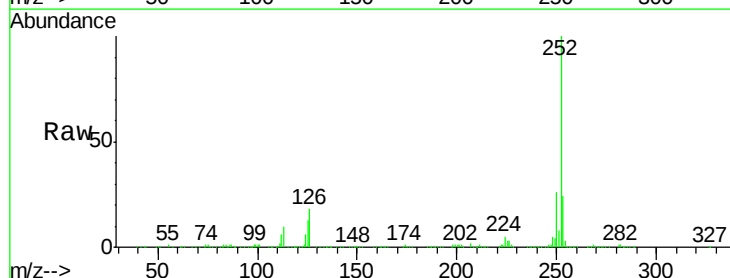
Tgt Ion:252 Resp: 385156

Ion Ratio Lower Upper

252 100

253 23.9 17.8 26.8

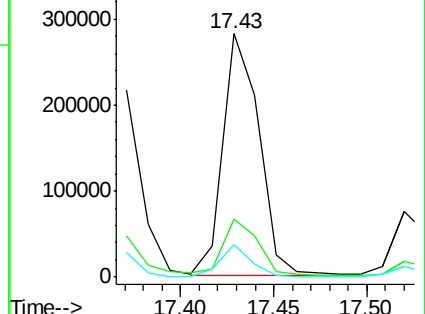
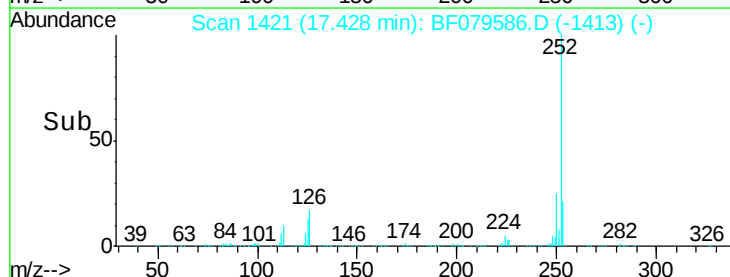
125 13.1 7.9 11.9#

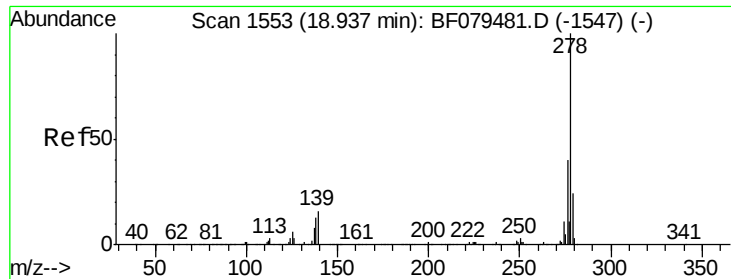


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.13 ng

RT: 18.79 min Scan# 1540

Delta R.T. -0.15 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

Instrument :

BNA_F

ClientSampleId :

HY-SB402A(2.0-2.5)

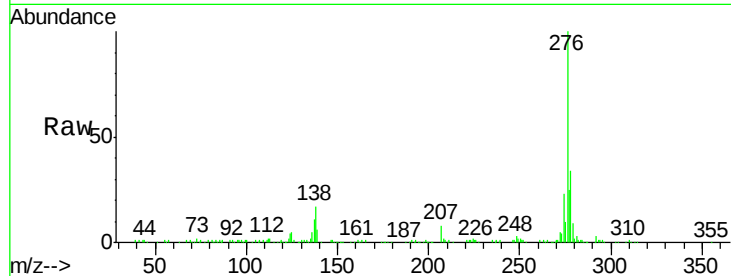
Tgt Ion:278 Resp: 67188

Ion Ratio Lower Upper

278 100

139 17.2 12.8 19.2

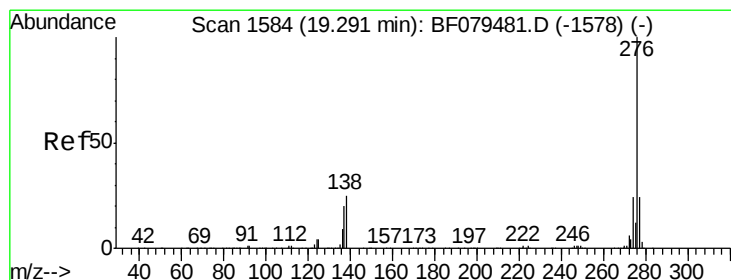
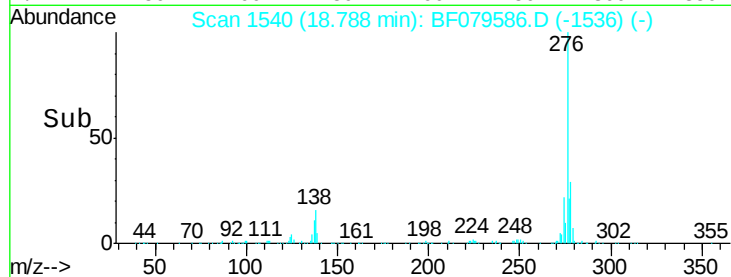
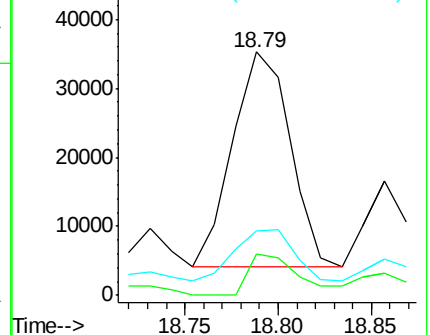
279 26.6 19.1 28.7



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: 18.12 ng

RT: 19.15 min Scan# 1572

Delta R.T. -0.14 min

Lab File: BF079586.D

Acq: 30 May 2015 5:39

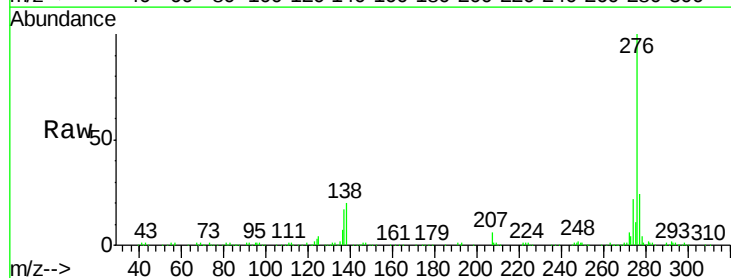
Tgt Ion:276 Resp: 280081

Ion Ratio Lower Upper

276 100

277 23.7 19.1 28.7

138 20.4 20.1 30.1



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

