

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
 Data File : BF079583.D
 Acq On : 30 May 2015 4:13
 Operator : TP/IZ
 Sample : G2408-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-23D

Quant Time: May 30 04:59:48 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 29 23:13:06 2015
 Response via : Initial Calibration

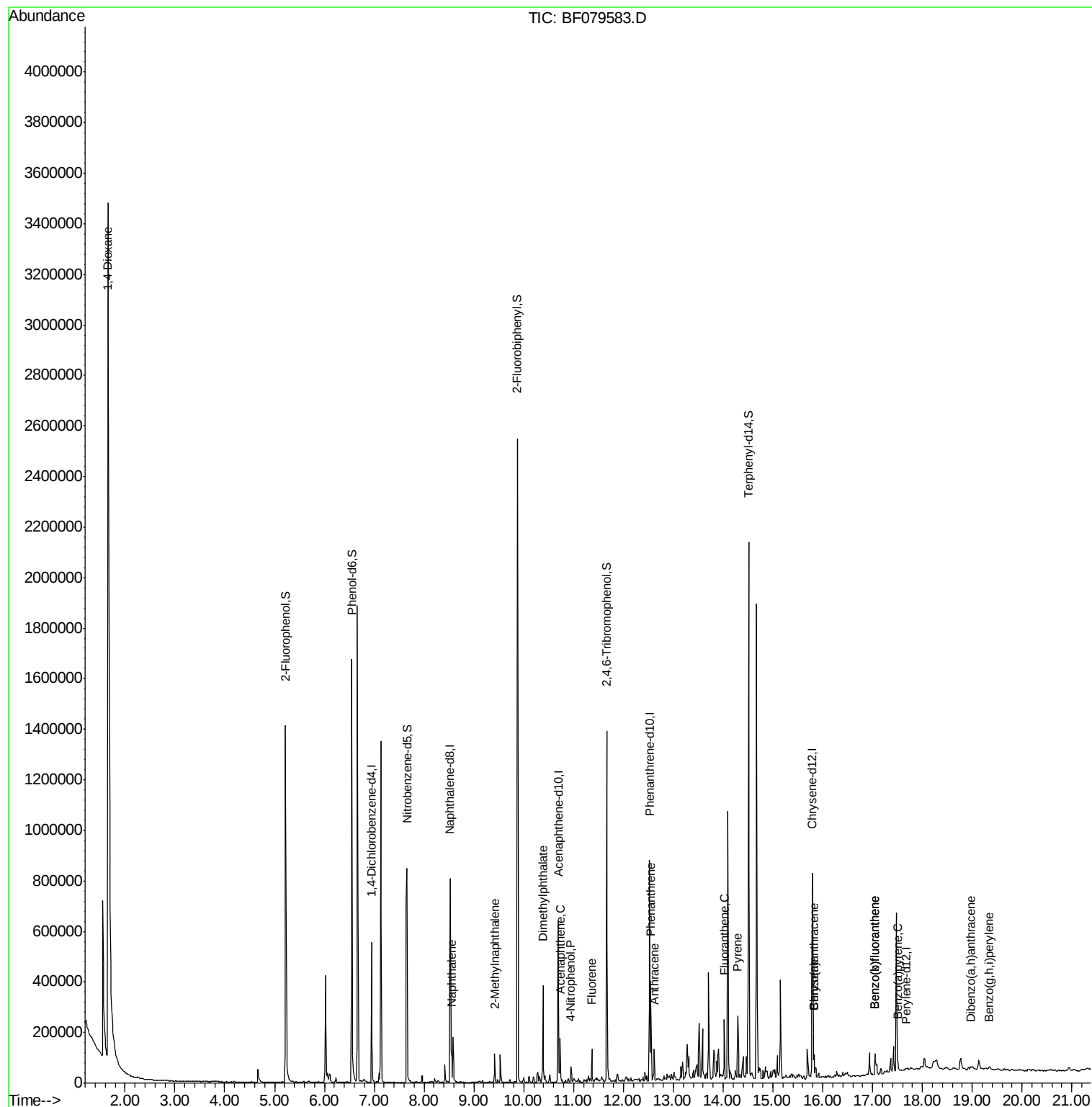
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	92092	20.00	ng	0.00
21) Naphthalene-d8	8.52	136	378034	20.00	ng	-0.01
38) Acenaphthene-d10	10.70	164	193625	20.00	ng	0.00
63) Phenanthrene-d10	12.53	188	344573	20.00	ng	0.00
75) Chrysene-d12	15.79	240	299855	20.00	ng	-0.08
86) Perylene-d12	17.67	264	1137	20.00	ng	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	533312	100.44	ng	-0.01
7) Phenol-d6	6.55	99	716005	105.80	ng	0.00
23) Nitrobenzene-d5	7.66	82	401337	61.37	ng	0.00
41) 2,4,6-Tribromophenol	11.67	330	209083	98.31	ng	-0.01
44) 2-Fluorobiphenyl	9.87	172	825742	60.84	ng	-0.01
78) Terphenyl-d14	14.51	244	796856	62.37	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	1.66	88	200732	79.47	ng	Qvalue # 100
31) Naphthalene	8.55	128	75584	4.17	ng	99
37) 2-Methylnaphthalene	9.42	142	35754	2.84	ng	95
49) Dimethylphthalate	10.39	163	163599	11.47	ng	99
51) Acenaphthene	10.73	154	39179	3.46	ng	100
55) 4-Nitrophenol	10.95	139	8905	4.33	ng	# 12
57) Fluorene	11.37	166	39913	2.90	ng	97
70) Phenanthrene	12.55	178	182067	9.63	ng	100
71) Anthracene	12.62	178	54192	2.82	ng	100
73) Di-n-butylphthalate	13.29	149	3132	Below Cal		# 77
74) Fluoranthene	14.02	202	100824	4.97	ng	98
77) Pyrene	14.30	202	110338	5.94	ng	97
80) Benzo(a)anthracene	15.83	228	40607	2.35	ng	97
82) Chrysene	15.83	228	41515	2.53	ng	99
87) Benzo(b)fluoranthene	17.05	252	68616	1058.12	ng	99
88) Benzo(k)fluoranthene	17.05	252	68124	1174.76	ng	98
89) Benzo(a)pyrene	17.51	252	10705	194.66	ng	# 83
90) Dibenzo(a,h)anthracene	18.97	278	9460	163.00	ng	96
91) Benzo(g,h,i)perylene	19.35	276	9532	137.78	ng	92

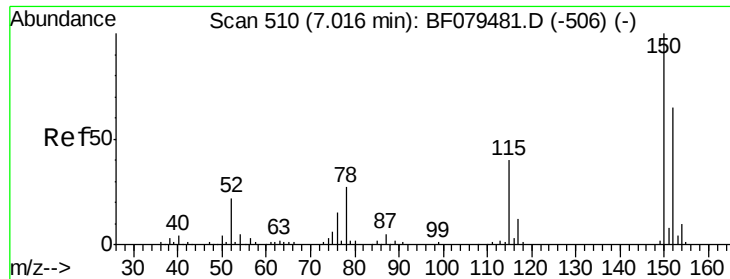
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.95 min Scan# 504

Delta R.T. -0.00 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Instrument :

BNA_F

ClientSampleId :

SB-23D

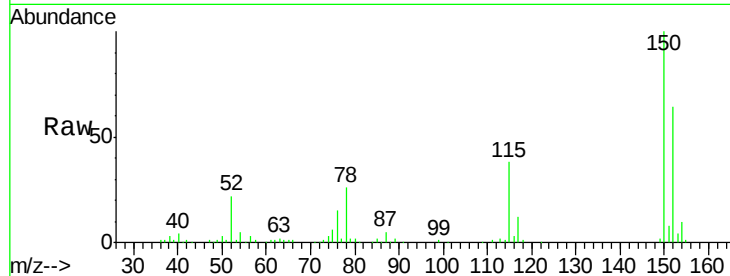
Tgt Ion:152 Resp: 92092

Ion Ratio Lower Upper

152 100

150 157.0 124.0 186.0

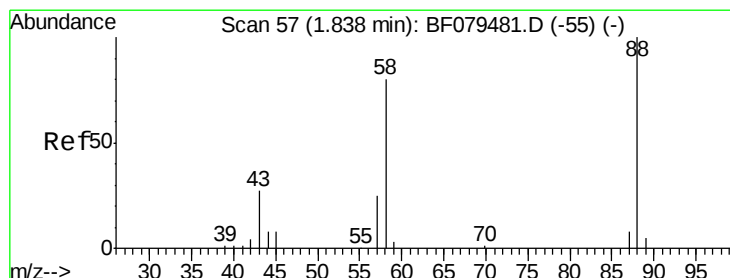
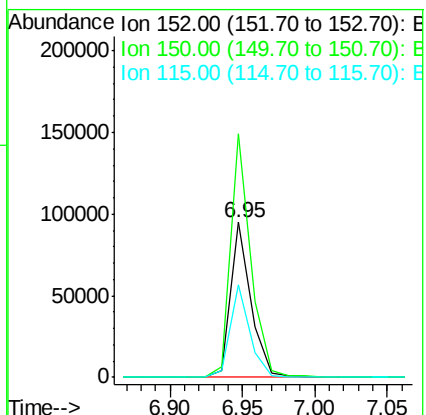
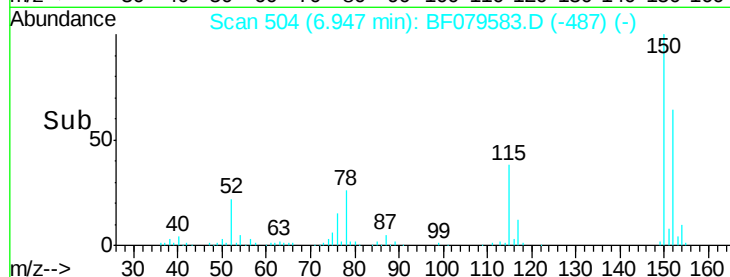
115 59.8 49.6 74.4



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: 79.47 ng

RT: 1.66 min Scan# 41

Delta R.T. -0.11 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

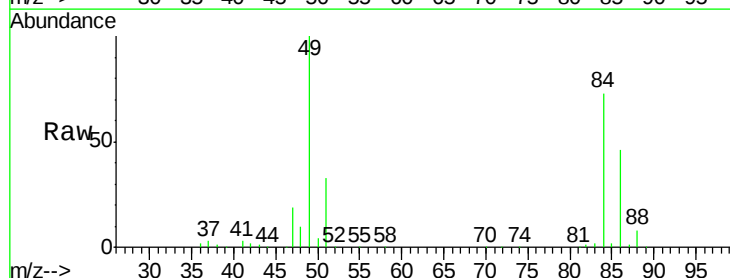
Tgt Ion: 88 Resp: 200732

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

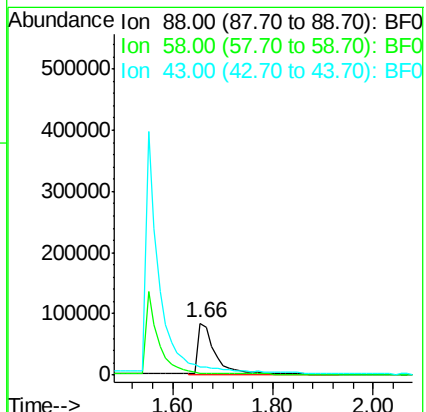
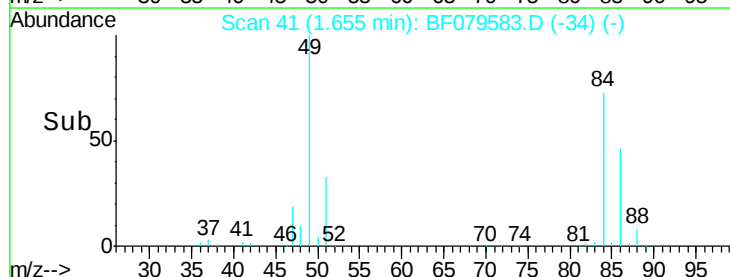
43 0.0 0.0 0.0

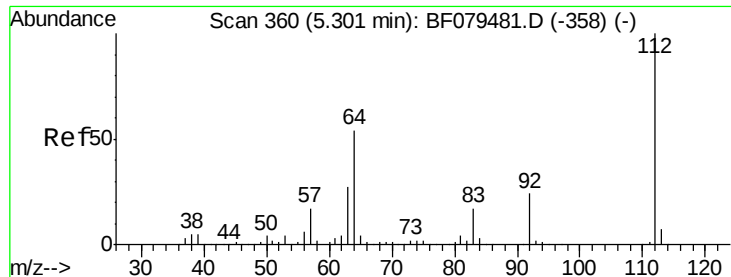


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0

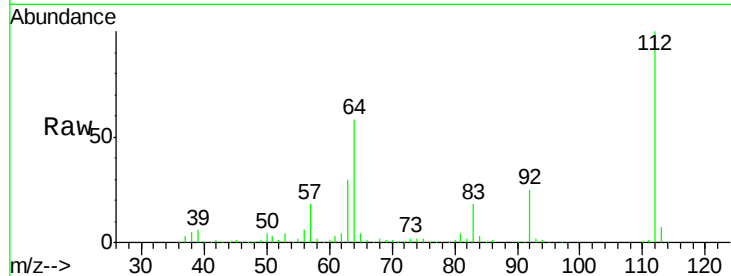




#5
 2-Fluorophenol
 Concen: 100.44 ng
 RT: 5.22 min Scan# 353
 Delta R.T. -0.01 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-23D

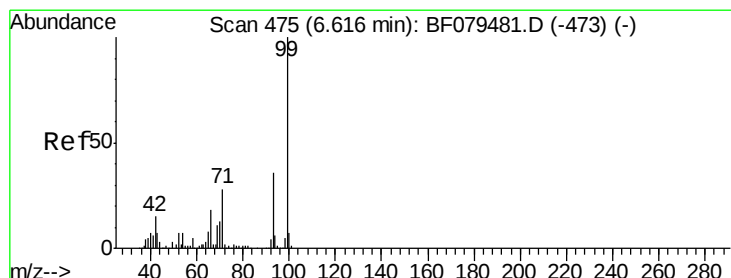
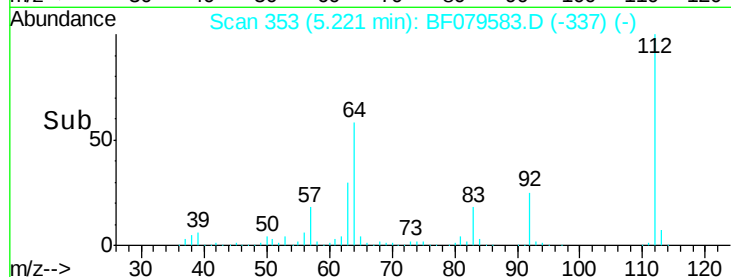
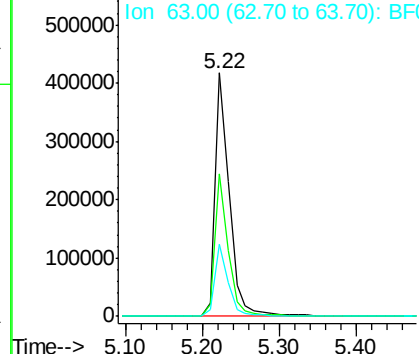
Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.4	43.5	65.3
63	29.8	21.8	32.8



Abundance Ion 112.00 (111.70 to 112.70): E

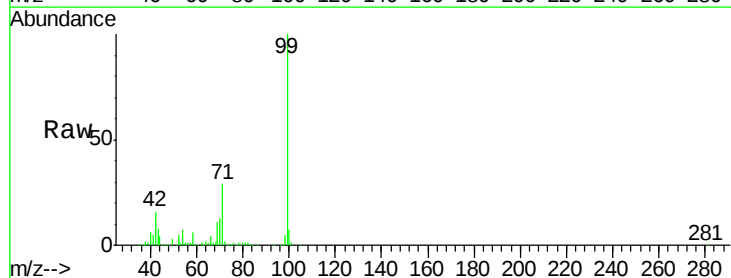
Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7
 Phenol-d6
 Concen: 105.80 ng
 RT: 6.55 min Scan# 469
 Delta R.T. -0.00 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

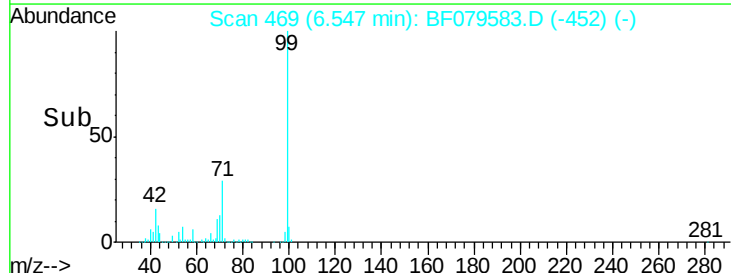
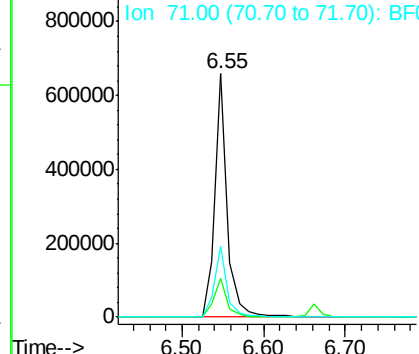
Tgt Ion	Ratio	Lower	Upper
99	100		
42	15.7	11.9	17.9
71	29.1	22.1	33.1

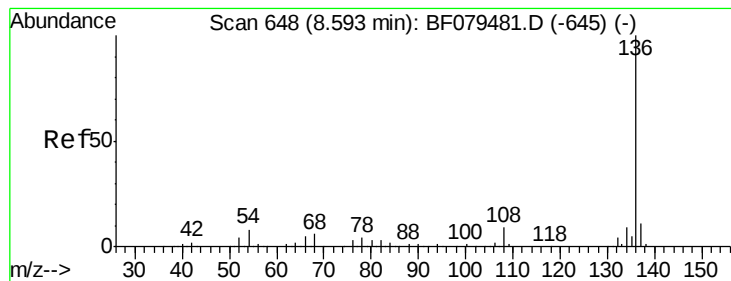


Abundance Ion 99.00 (98.70 to 99.70): BF0

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. -0.01 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Instrument :

BNA_F

ClientSampleId :

SB-23D

Tgt Ion:136 Resp: 378034

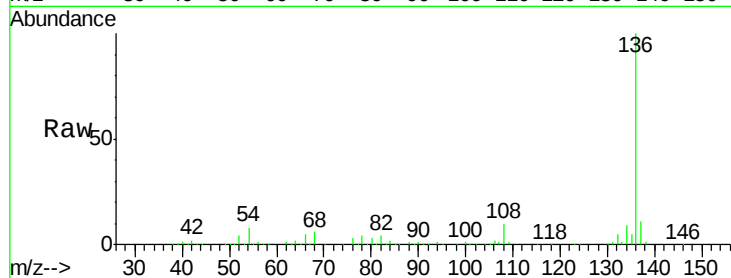
Ion Ratio Lower Upper

136 100

137 11.5 8.5 12.7

54 7.9 6.6 9.8

68 6.2 4.7 7.1

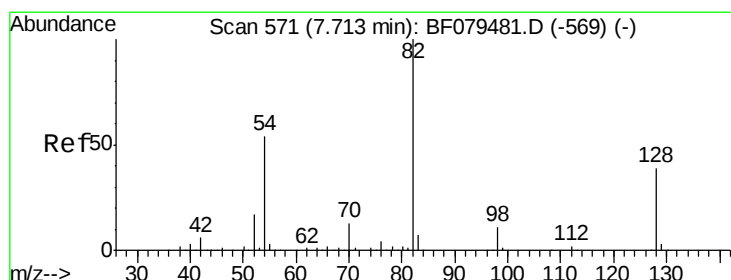
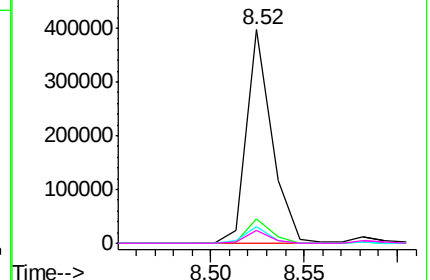
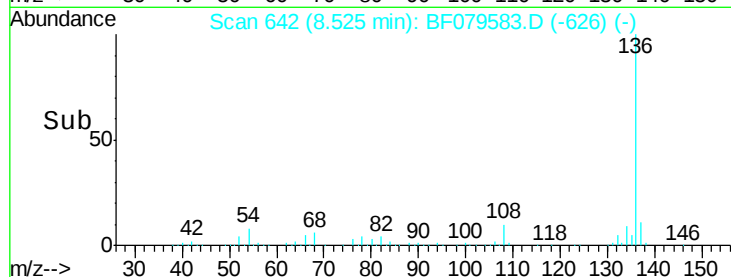


Abundance Ion 136.00 (135.70 to 136.70): E

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: 61.37 ng

RT: 7.66 min Scan# 566

Delta R.T. -0.00 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

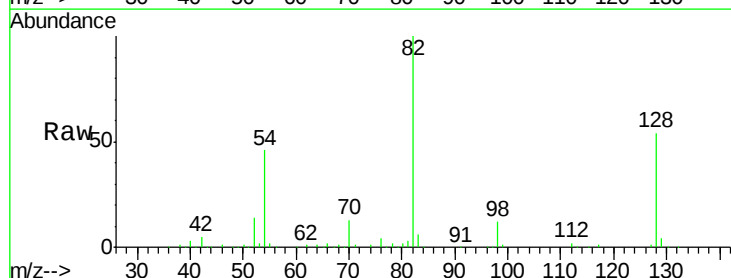
Tgt Ion: 82 Resp: 401337

Ion Ratio Lower Upper

82 100

128 53.6 30.8 46.2#

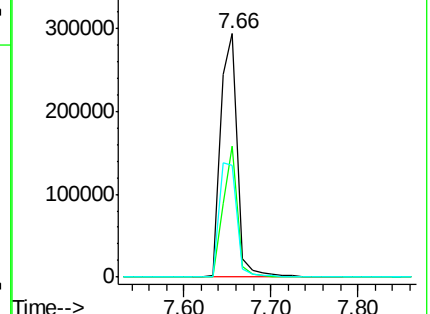
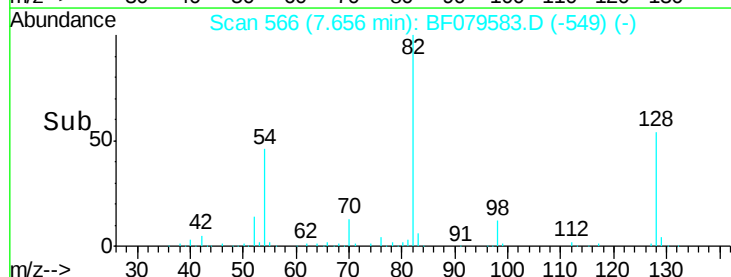
54 45.8 42.8 64.2

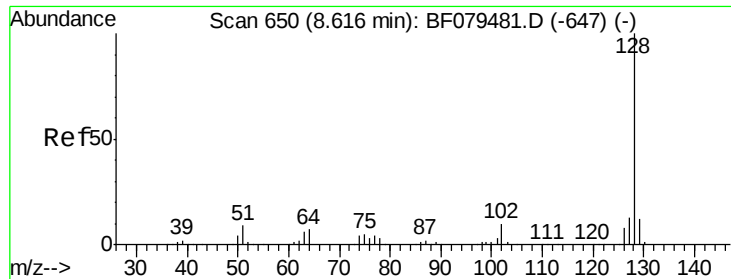


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

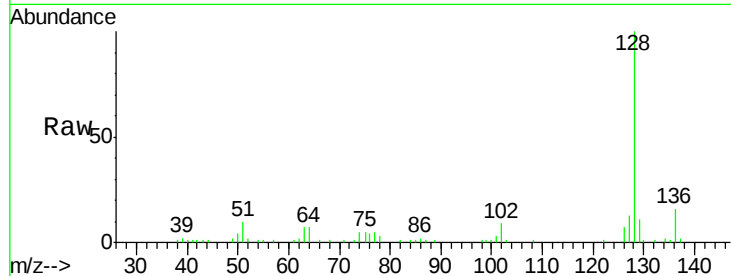




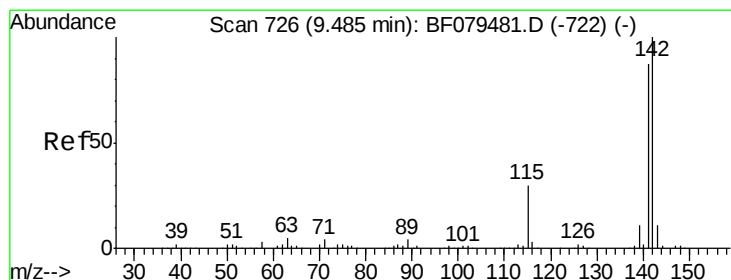
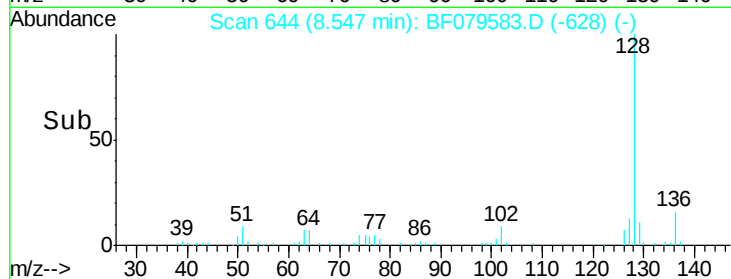
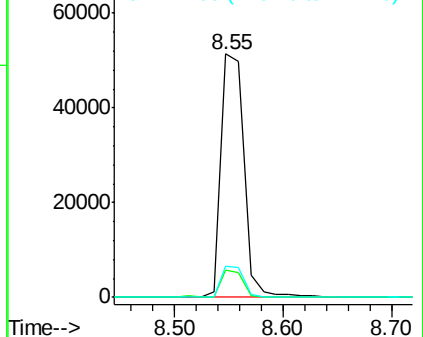
#31
Naphthalene
Concen: 4.17 ng
RT: 8.55 min Scan# 644
Delta R.T. -0.01 min
Lab File: BF079583.D
Acq: 30 May 2015 4:13

Instrument :
BNA_F
ClientSampleId :
SB-23D

Tgt Ion:128 Resp: 75584
Ion Ratio Lower Upper
128 100
129 11.3 9.3 13.9
127 13.0 10.6 15.8

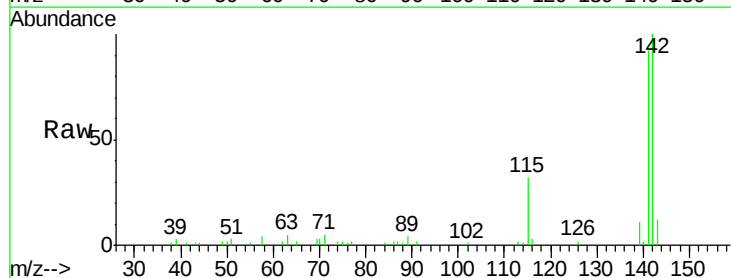


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

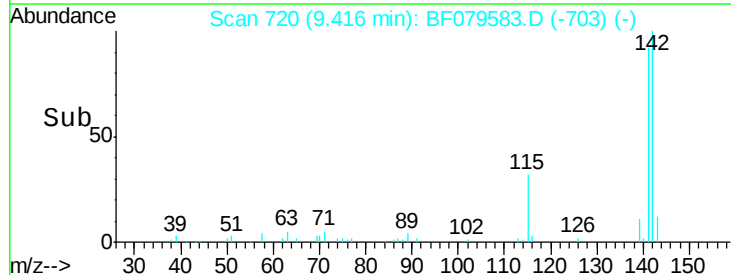
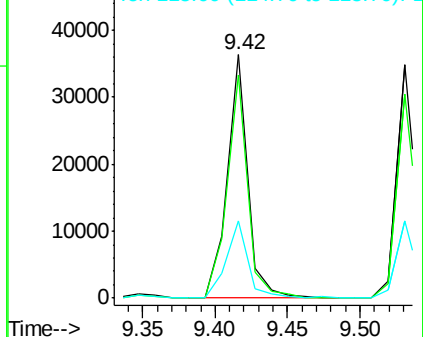


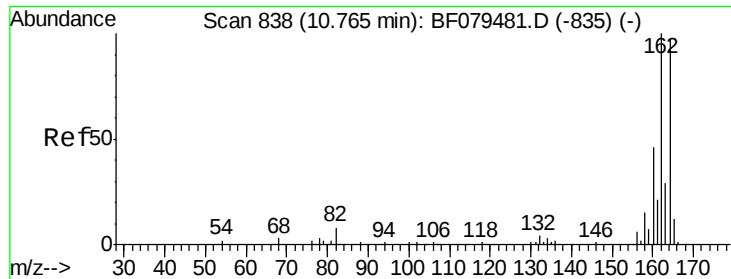
#37
2-Methylnaphthalene
Concen: 2.84 ng
RT: 9.42 min Scan# 720
Delta R.T. -0.00 min
Lab File: BF079583.D
Acq: 30 May 2015 4:13

Tgt Ion:142 Resp: 35754
Ion Ratio Lower Upper
142 100
141 91.8 69.5 104.3
115 31.7 23.8 35.6



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

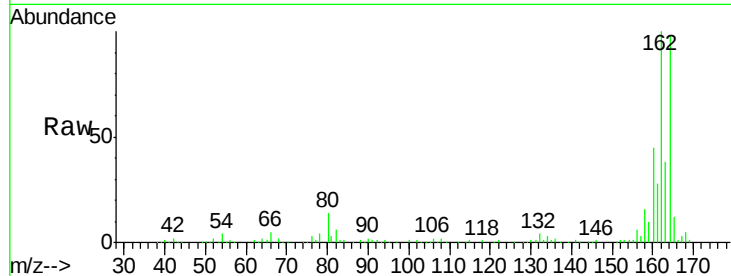




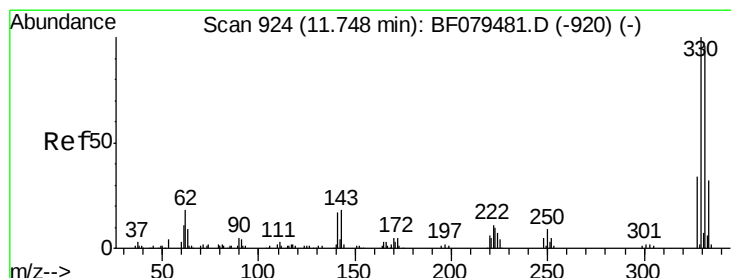
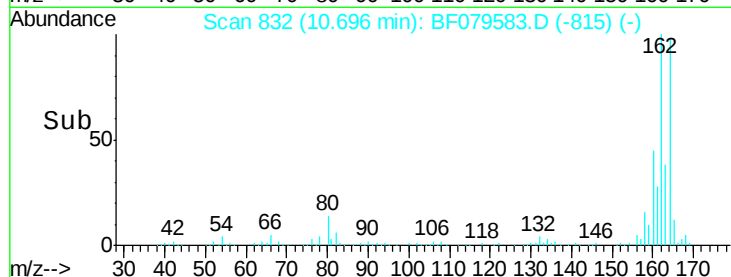
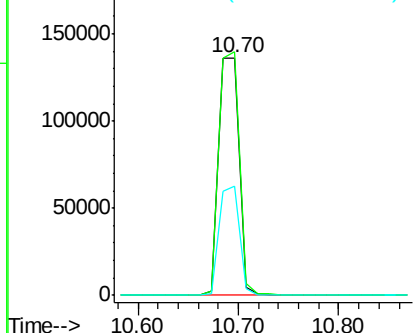
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.70 min Scan# 832
 Delta R.T. -0.00 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-23D

Tgt Ion:164 Resp: 193625
 Ion Ratio Lower Upper
 164 100
 162 102.4 82.6 124.0
 160 46.1 37.7 56.5

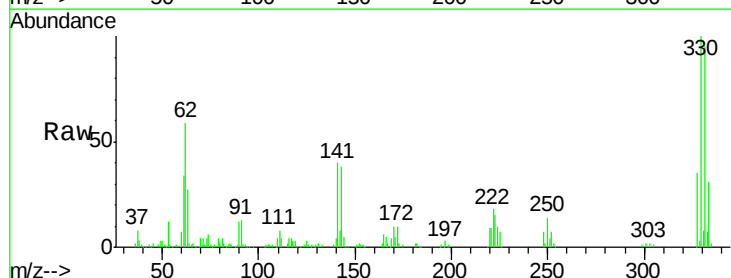


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

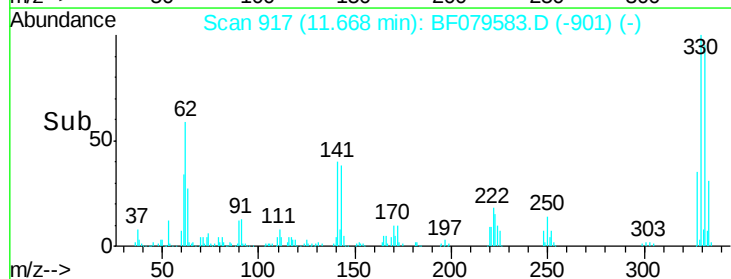
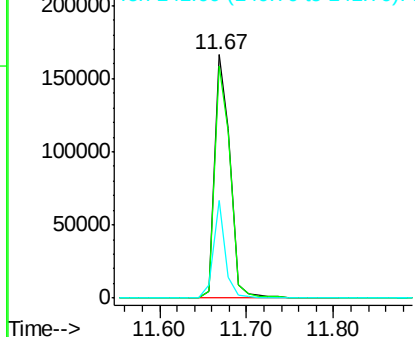


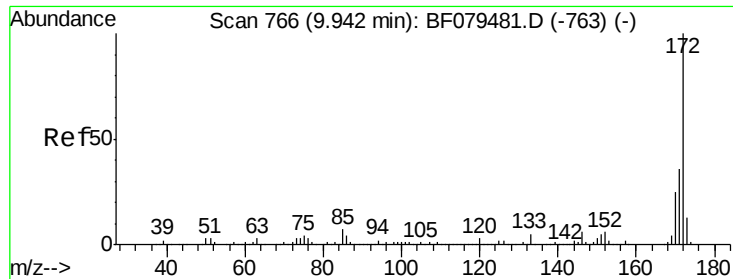
#41
 2,4,6-Tribromophenol
 Concen: 98.31 ng
 RT: 11.67 min Scan# 917
 Delta R.T. -0.01 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

Tgt Ion:330 Resp: 209083
 Ion Ratio Lower Upper
 330 100
 332 96.4 0.0 0.0#
 141 31.9 0.0 0.0#



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

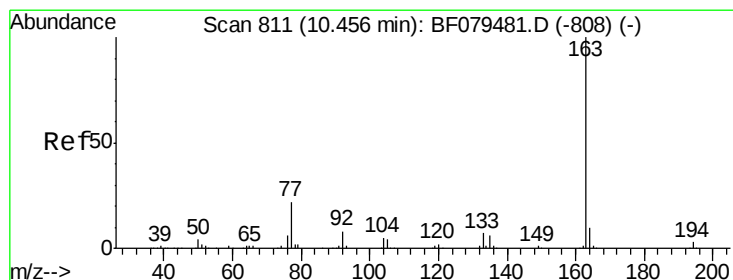
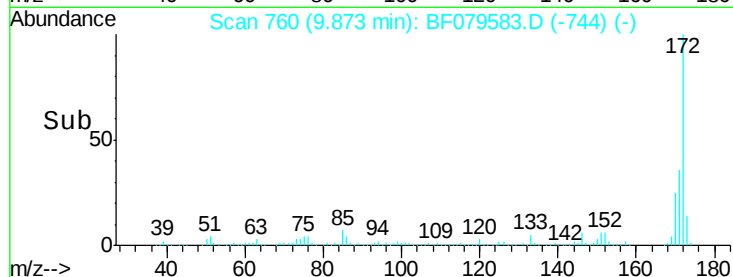
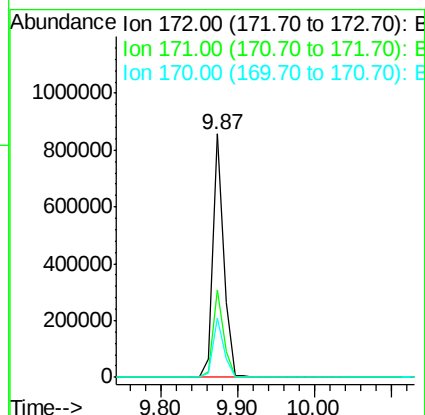
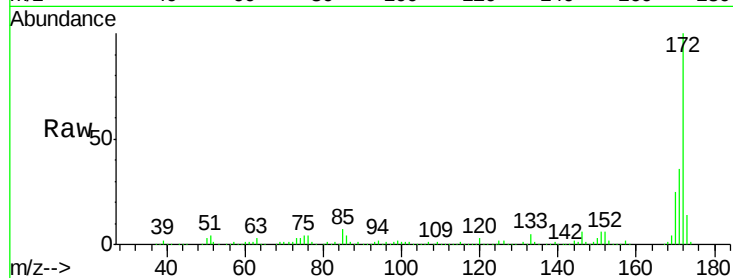




#44
 2-Fluorobiphenyl
 Concen: 60.84 ng
 RT: 9.87 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

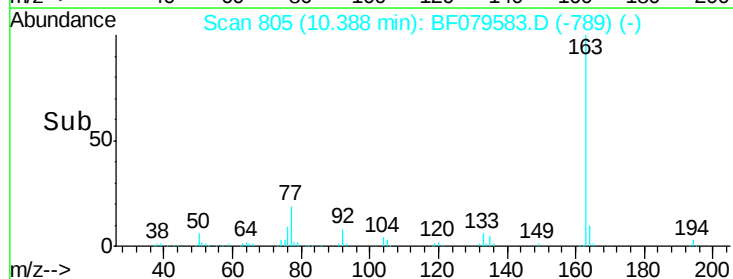
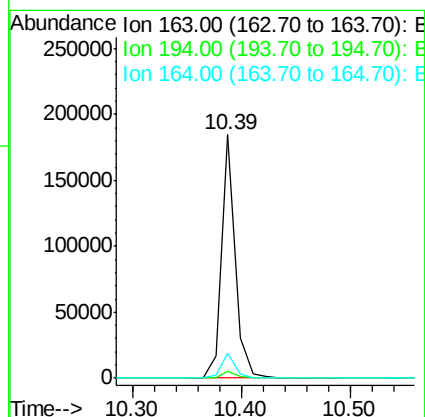
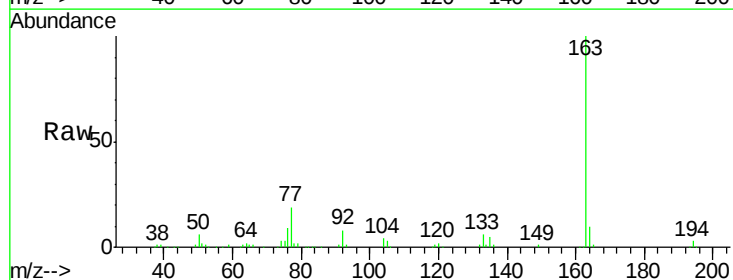
Instrument :
 BNA_F
 ClientSampleId :
 SB-23D

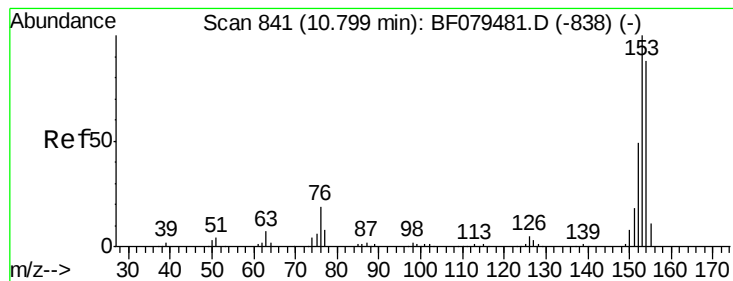
Tgt Ion:172 Resp: 825742
 Ion Ratio Lower Upper
 172 100
 171 35.8 28.5 42.7
 170 24.5 19.7 29.5



#49
 Dimethylphthalate
 Concen: 11.47 ng
 RT: 10.39 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

Tgt Ion:163 Resp: 163599
 Ion Ratio Lower Upper
 163 100
 194 2.9 2.4 3.6
 164 10.0 8.2 12.4





#51

Acenaphthene

Concen: 3.46 ng

RT: 10.73 min Scan# 835

Delta R.T. -0.01 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Instrument :

BNA_F

ClientSampleId :

SB-23D

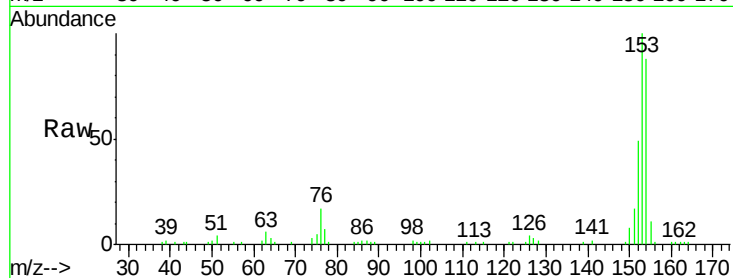
Tgt Ion:154 Resp: 39179

Ion Ratio Lower Upper

154 100

153 114.3 91.1 136.7

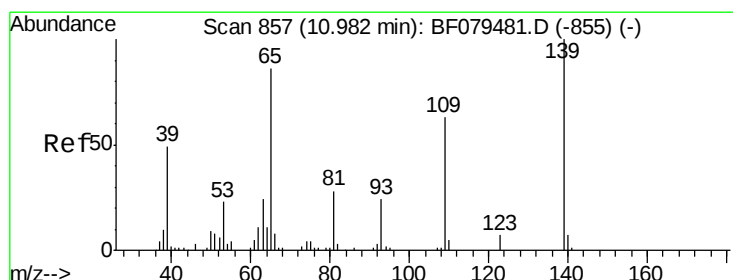
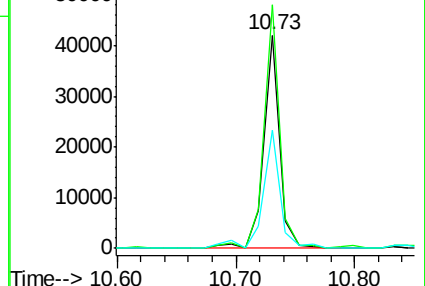
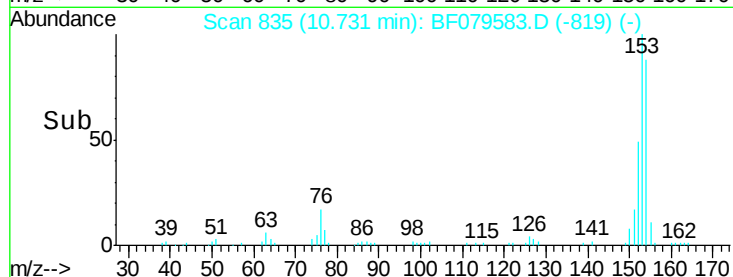
152 55.6 44.6 66.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 4.33 ng

RT: 10.95 min Scan# 854

Delta R.T. 0.03 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

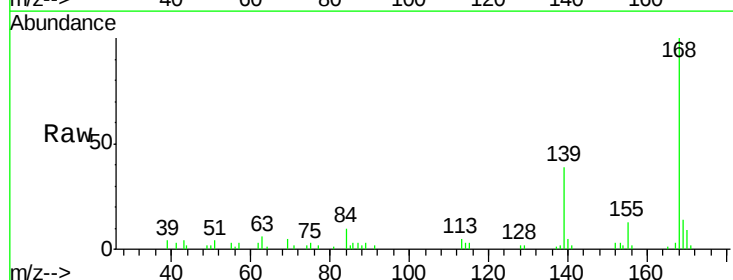
Tgt Ion:139 Resp: 8905

Ion Ratio Lower Upper

139 100

109 0.0 42.8 82.8#

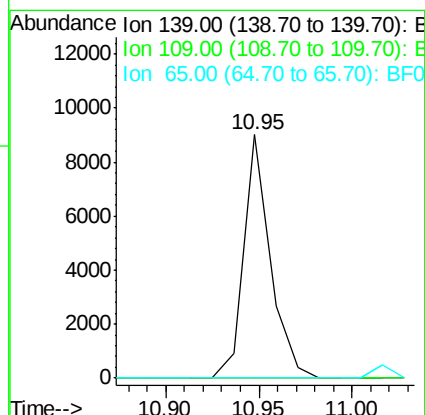
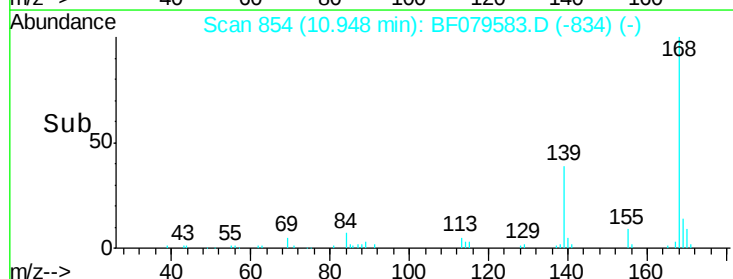
65 0.0 66.3 106.3#

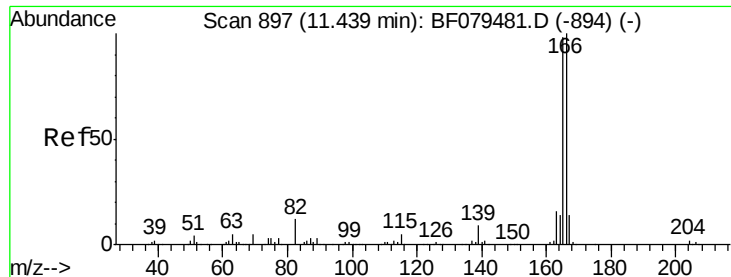


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

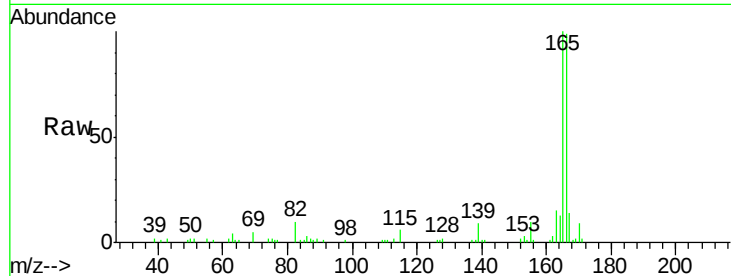




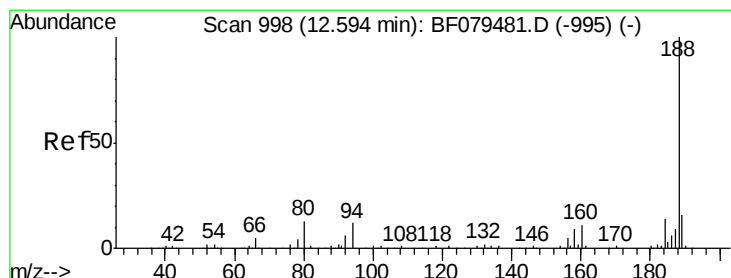
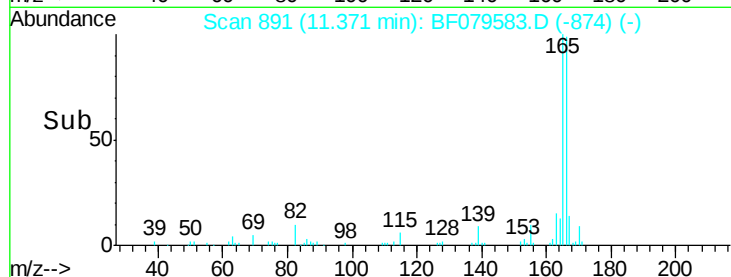
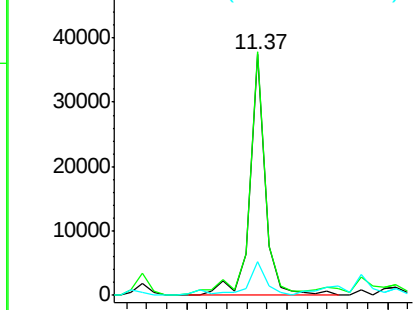
#57
 Fluorene
 Concen: 2.90 ng
 RT: 11.37 min Scan# 891
 Delta R.T. -0.00 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-23D

Tgt Ion:166 Resp: 39913
 Ion Ratio Lower Upper
 166 100
 165 101.2 78.6 117.8
 167 14.0 10.8 16.2

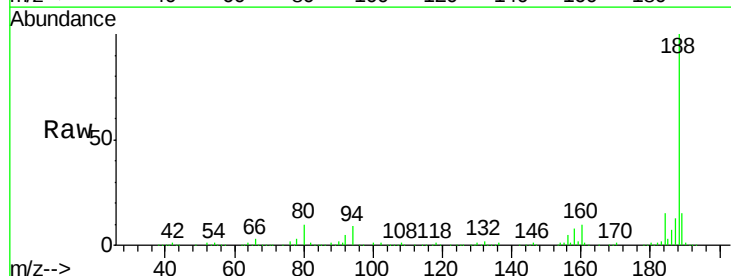


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

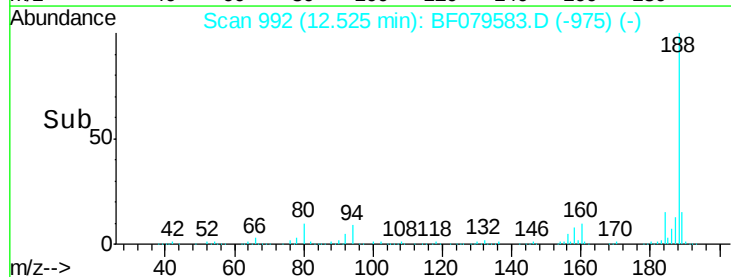
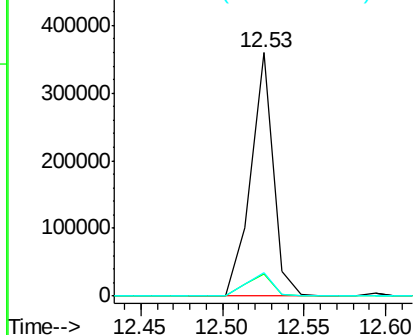


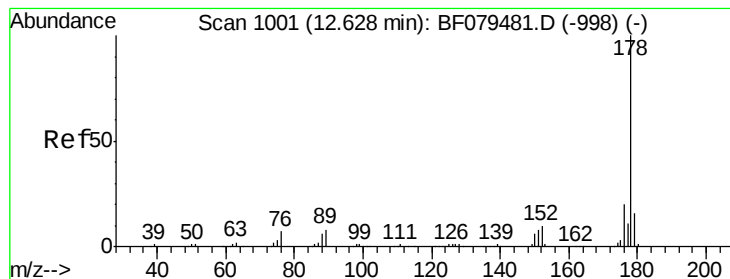
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.53 min Scan# 992
 Delta R.T. -0.00 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

Tgt Ion:188 Resp: 344573
 Ion Ratio Lower Upper
 188 100
 94 9.2 9.8 14.6#
 80 9.6 10.5 15.7#



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: 9.63 ng

RT: 12.55 min Scan# 994

Delta R.T. -0.01 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Instrument :

BNA_F

ClientSampleId :

SB-23D

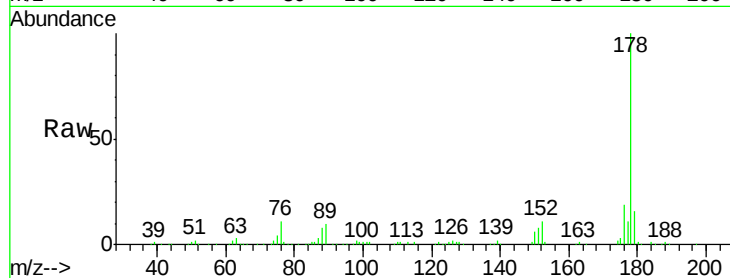
Tgt Ion:178 Resp: 182067

Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

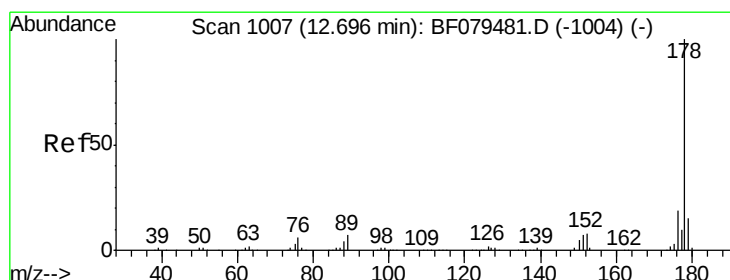
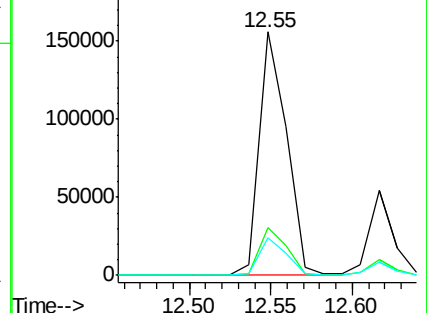
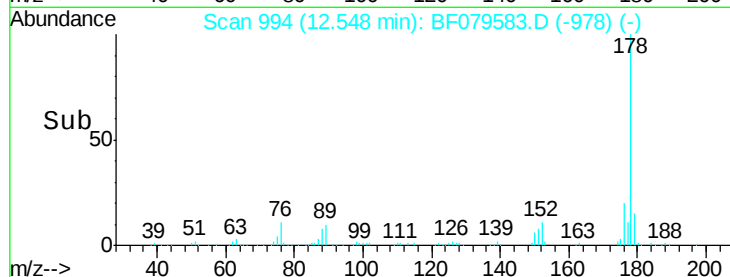
179 15.7 12.4 18.6



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: 2.82 ng

RT: 12.62 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

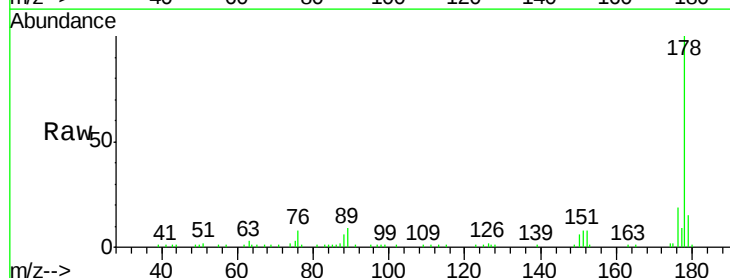
Tgt Ion:178 Resp: 54192

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

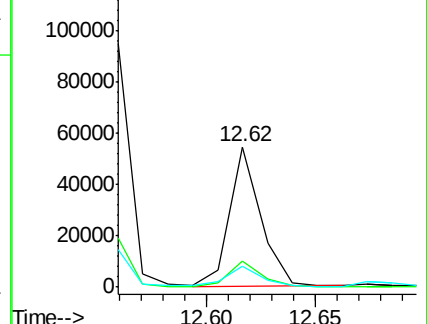
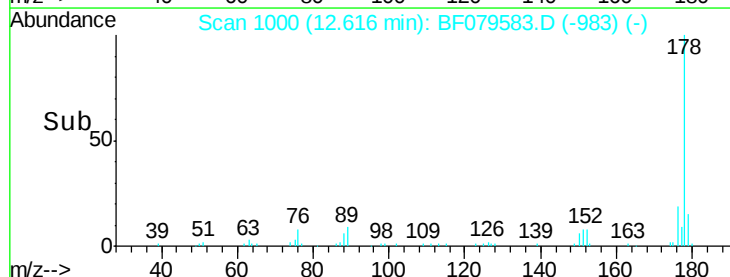
179 15.4 12.2 18.4

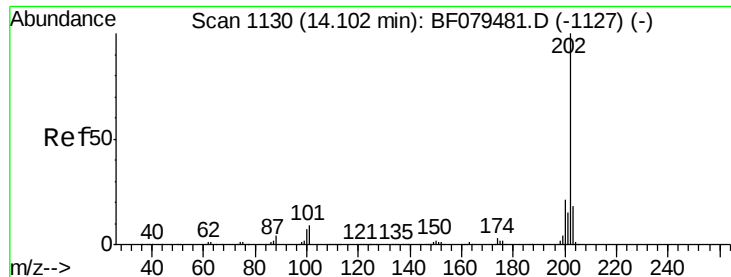


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 4.97 ng

RT: 14.02 min Scan# 1123

Delta R.T. -0.01 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Instrument :

BNA_F

ClientSampled :

SB-23D

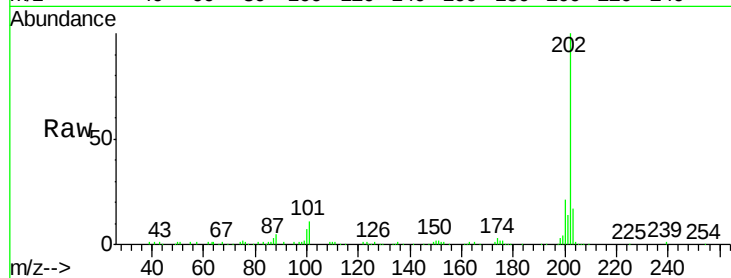
Tgt Ion: 202 Resp: 100824

Ion Ratio Lower Upper

202 100

101 10.6 0.0 29.3

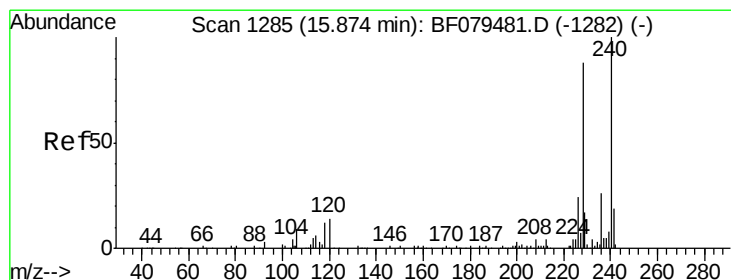
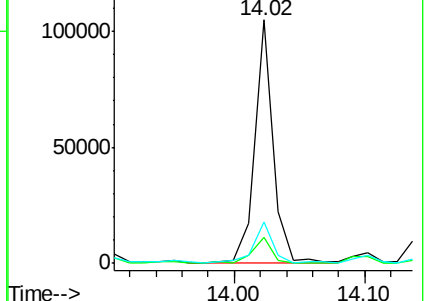
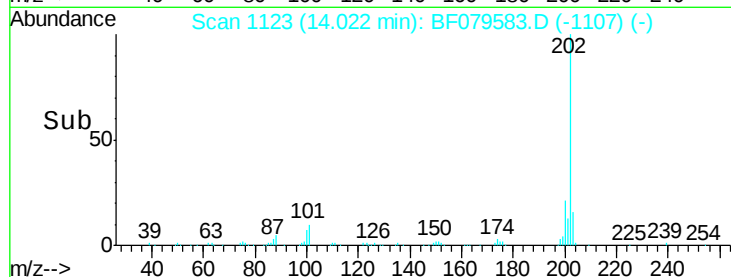
203 16.9 0.0 37.6



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: BF079583.D

Acq: 30 May 2015 4:13

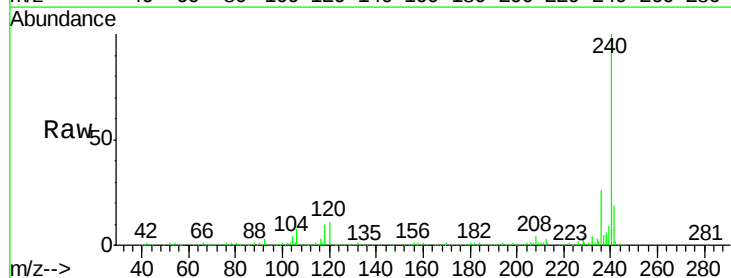
Tgt Ion: 240 Resp: 299855

Ion Ratio Lower Upper

240 100

120 11.5 10.8 16.2

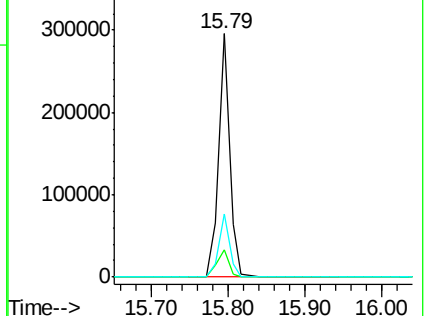
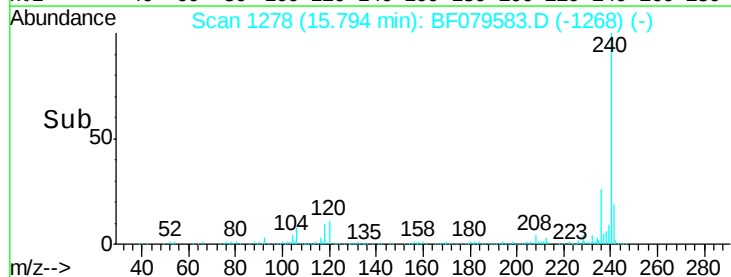
236 26.0 21.0 31.6

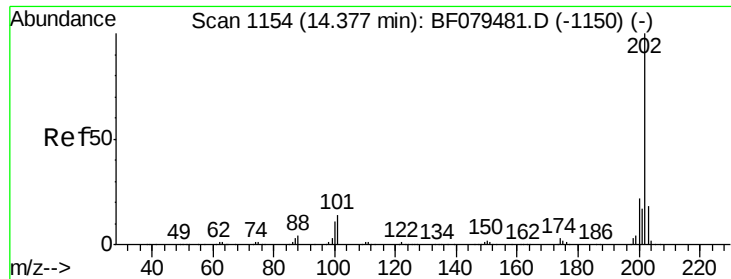


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

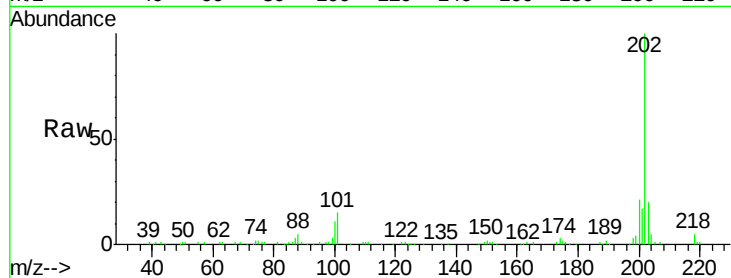




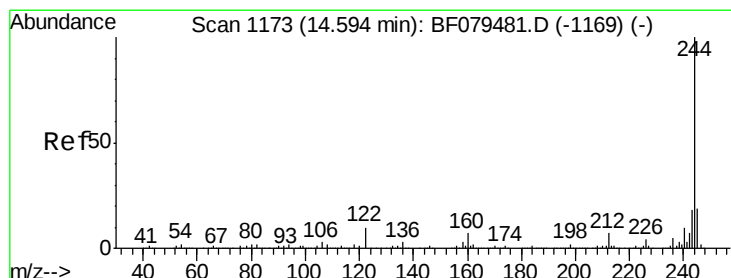
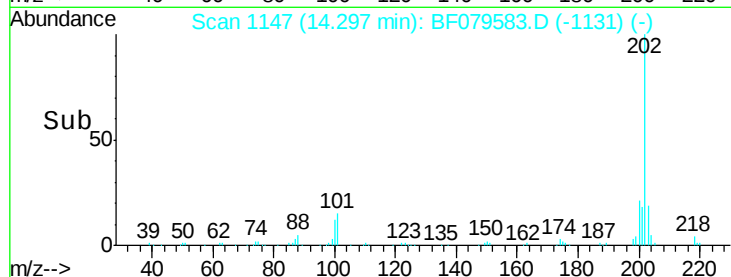
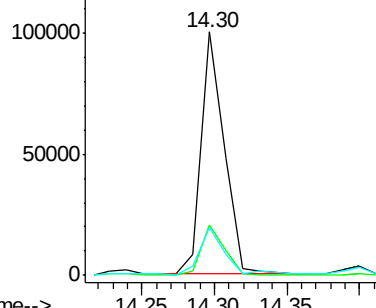
#77
 Pyrene
 Concen: 5.94 ng
 RT: 14.30 min Scan# 1147
 Delta R.T. -0.01 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-23D

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.5	26.3
203	19.6	14.4	21.6

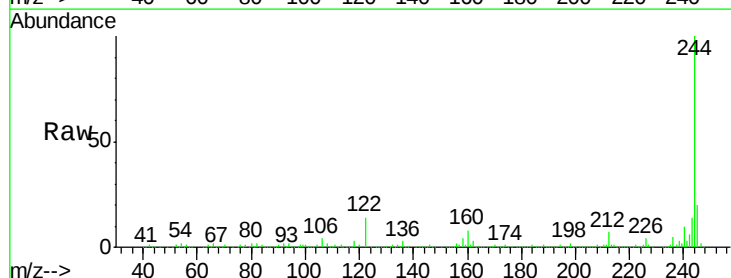


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

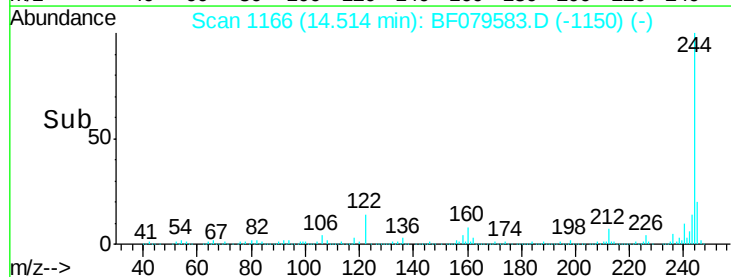
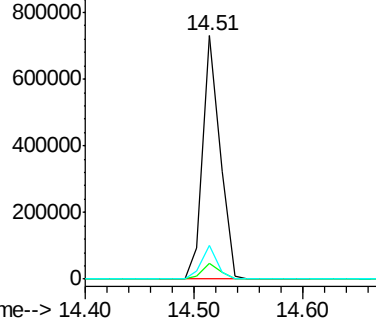


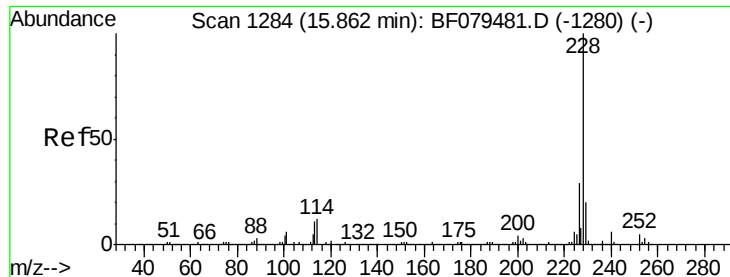
#78
 Terphenyl-d14
 Concen: 62.37 ng
 RT: 14.51 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: BF079583.D
 Acq: 30 May 2015 4:13

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.2	7.8
122	13.8	8.0	12.0



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: 2.35 ng

RT: 15.83 min Scan# 1281

Delta R.T. -0.03 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

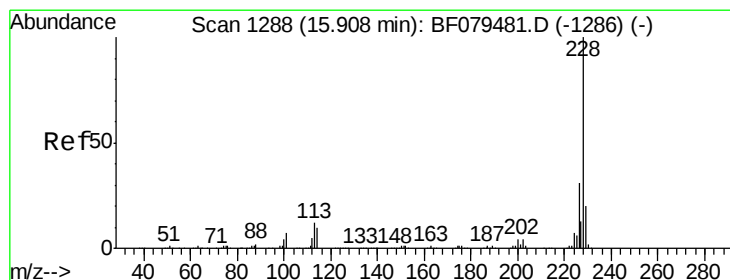
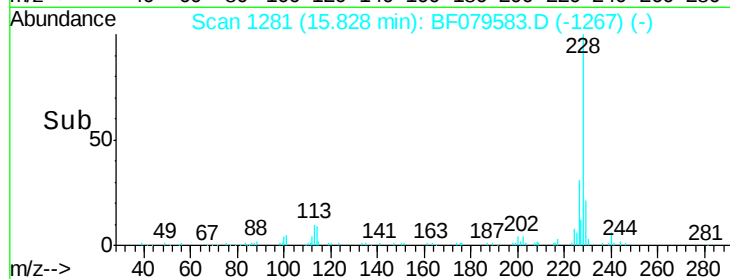
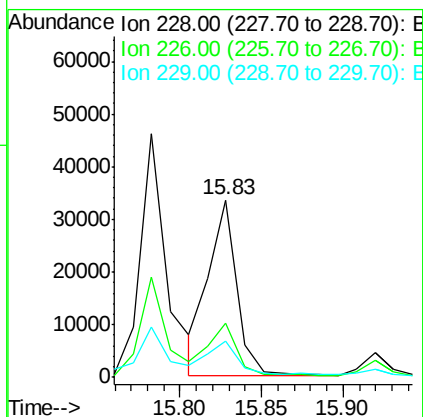
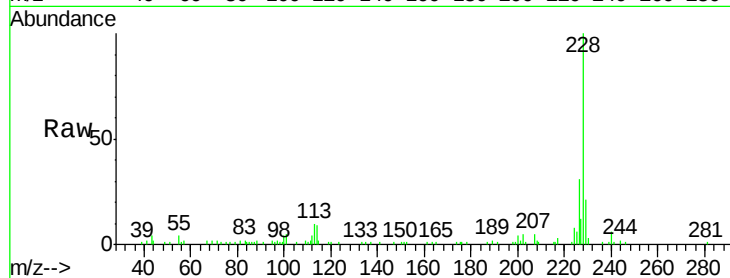
Instrument :

BNA_F

ClientSampleId :

SB-23D

Tgt Ion:	228	Resp:	40607
Ion	Ratio	Lower	Upper
228	100		
226	30.8	22.8	34.2
229	20.7	15.9	23.9



#82

Chrysene

Concen: 2.53 ng

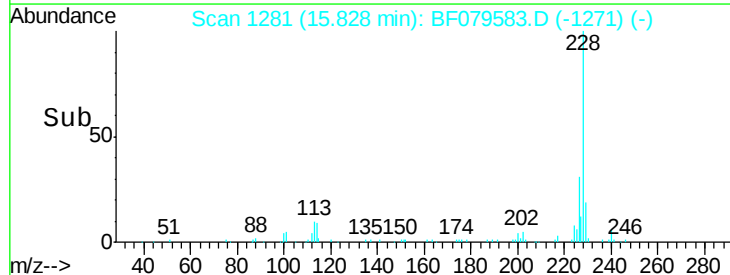
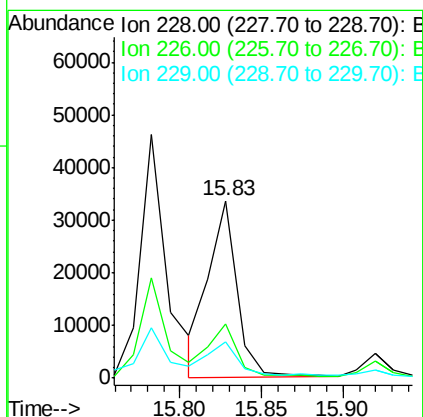
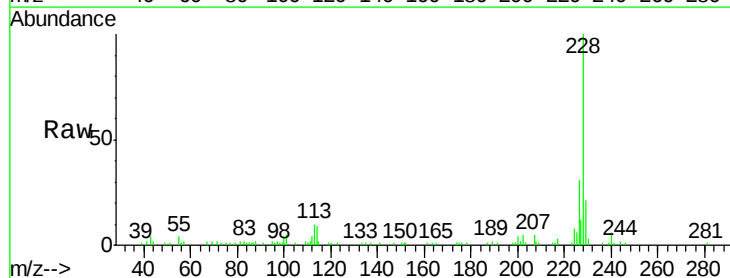
RT: 15.83 min Scan# 1281

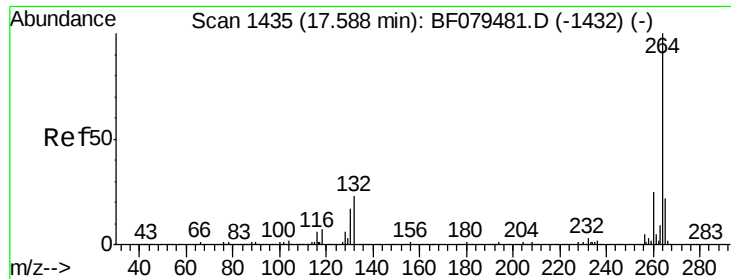
Delta R.T. -0.08 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Tgt Ion:	228	Resp:	41515
Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.4
229	20.7	15.9	23.9

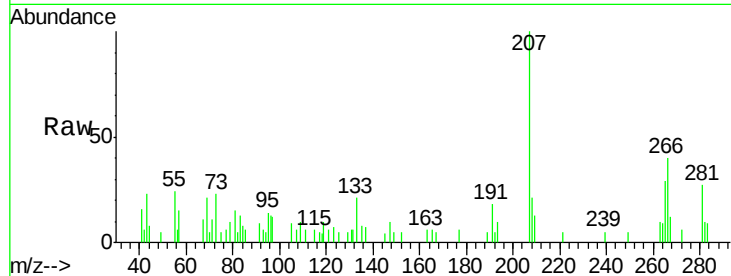




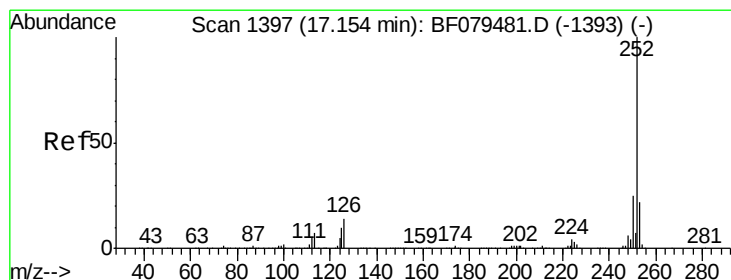
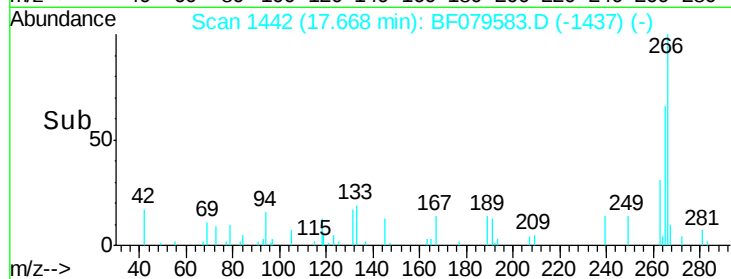
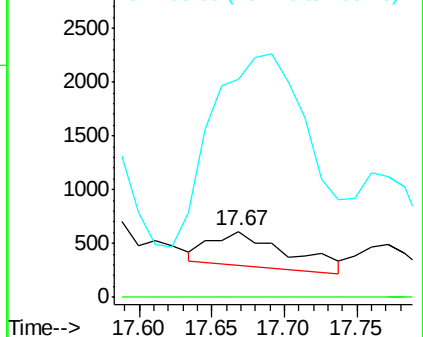
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.67 min Scan# 1442
Delta R.T. -0.14 min
Lab File: BF079583.D
Acq: 30 May 2015 4:13

Instrument :
BNA_F
ClientSampleId :
SB-23D

Tgt Ion: 264 Resp: 1137
Ion Ratio Lower Upper
264 100
260 0.0 19.8 29.8#
265 329.5 17.8 26.6#

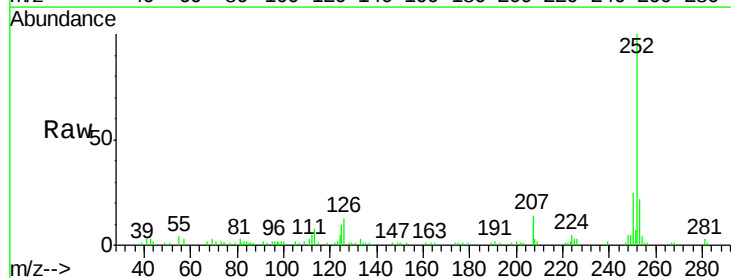


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

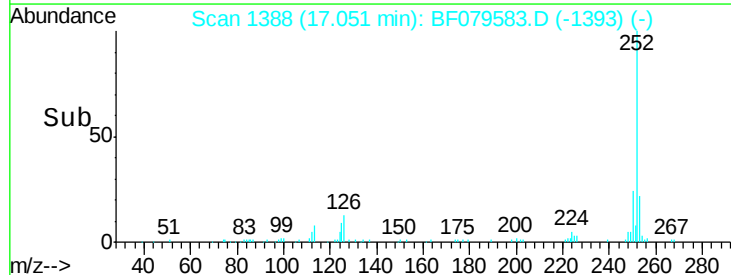
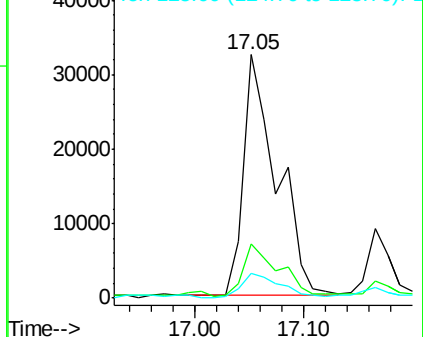


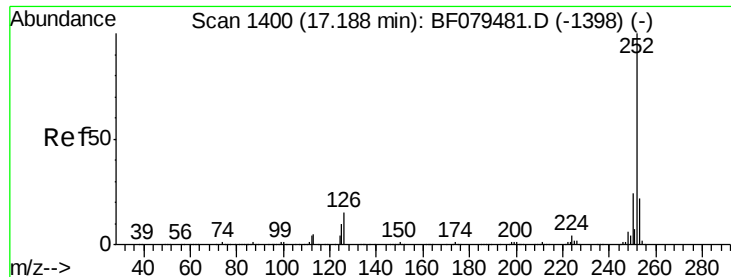
#87
Benzo(b)fluoranthene
Concen: 1058.12 ng
RT: 17.05 min Scan# 1388
Delta R.T. -0.25 min
Lab File: BF079583.D
Acq: 30 May 2015 4:13

Tgt Ion: 252 Resp: 68616
Ion Ratio Lower Upper
252 100
253 22.2 17.6 26.4
125 9.9 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: 1174.76 ng

RT: 17.05 min Scan# 1388

Delta R.T. -0.29 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Instrument :

BNA_F

ClientSampleId :

SB-23D

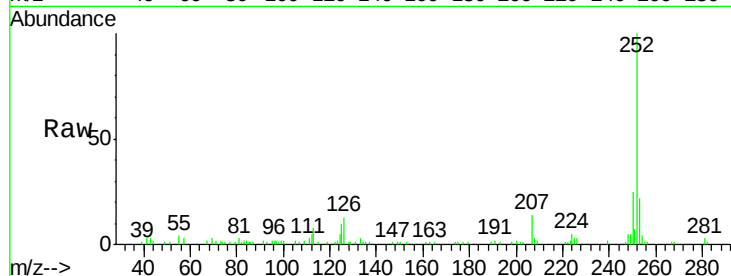
Tgt Ion:252 Resp: 68124

Ion Ratio Lower Upper

252 100

253 22.2 17.2 25.8

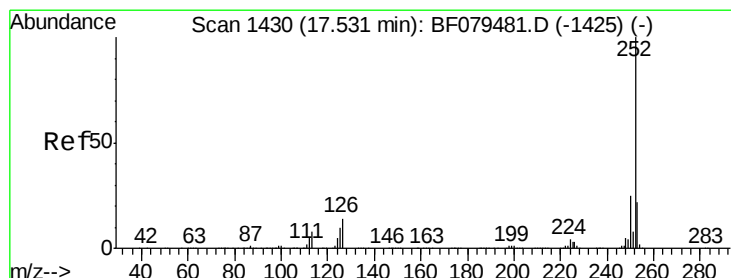
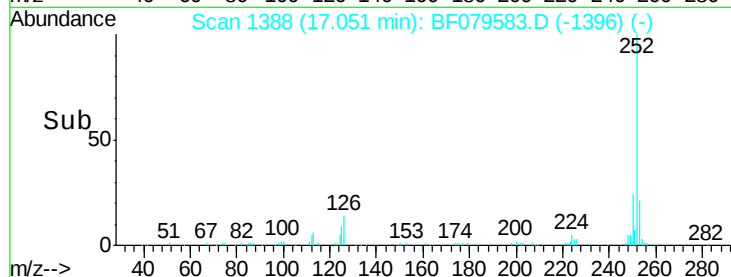
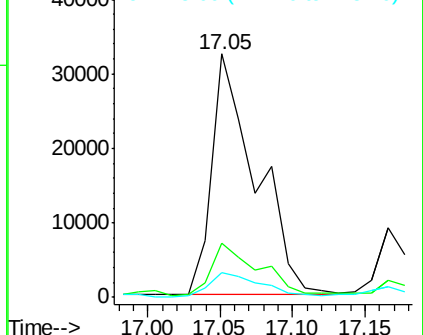
125 9.9 6.8 10.2



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: 194.66 ng

RT: 17.51 min Scan# 1428

Delta R.T. -0.23 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

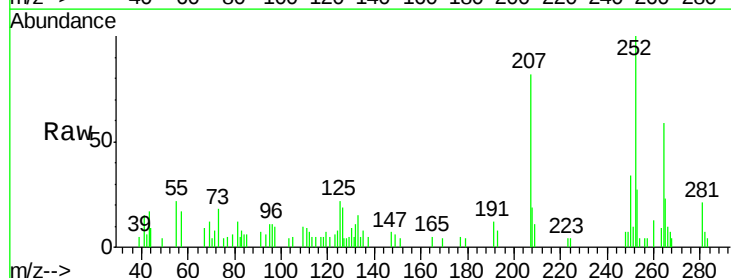
Tgt Ion:252 Resp: 10705

Ion Ratio Lower Upper

252 100

253 27.1 17.8 26.8#

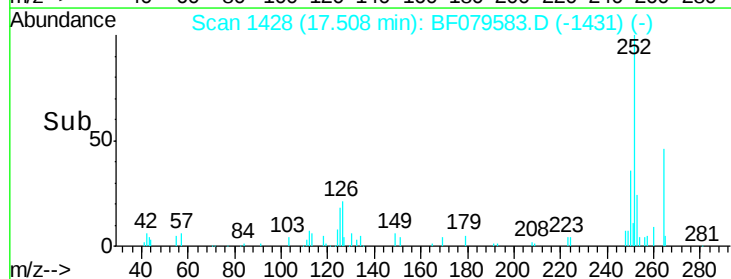
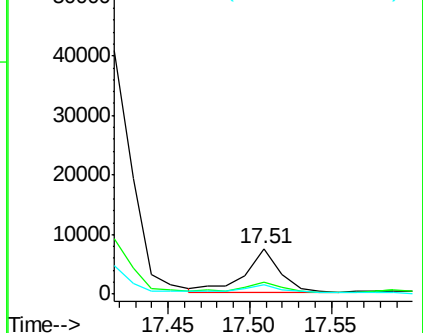
125 21.8 7.9 11.9#

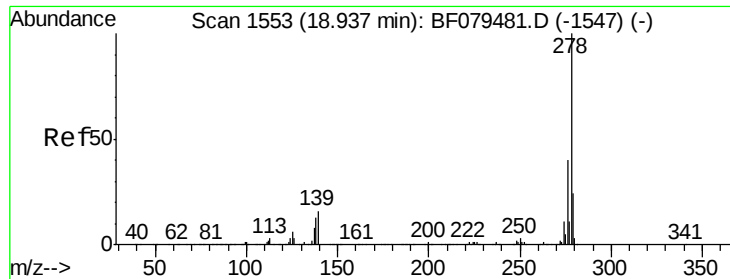


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 163.00 ng

RT: 18.97 min Scan# 1556

Delta R.T. -0.27 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Instrument :

BNA_F

ClientSampleId :

SB-23D

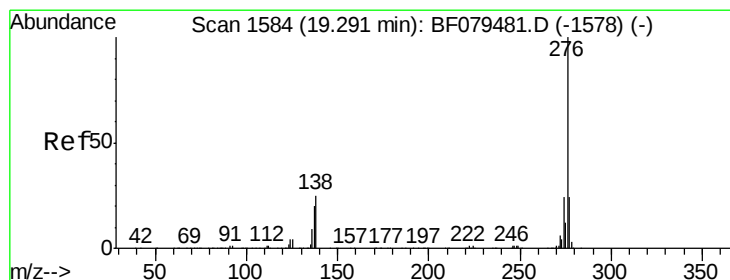
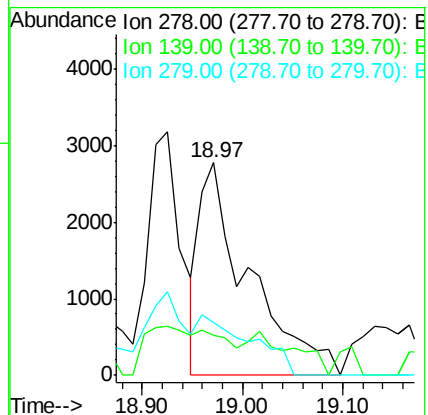
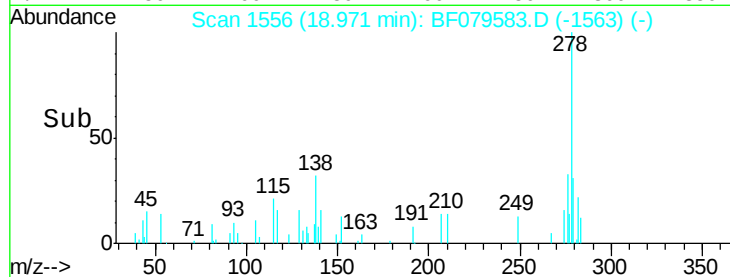
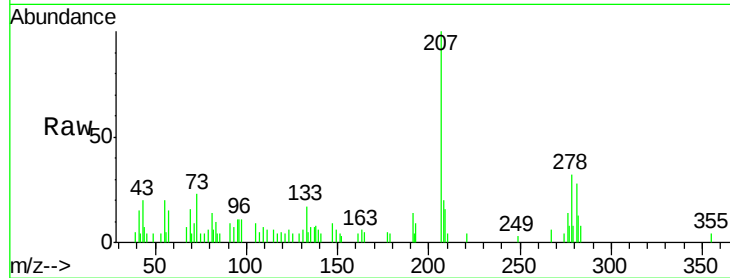
Tgt Ion: 278 Resp: 9460

Ion Ratio Lower Upper

278 100

139 18.9 12.8 19.2

279 25.2 19.1 28.7



#91

Benzo(g,h,i)perylene

Concen: 137.78 ng

RT: 19.35 min Scan# 1589

Delta R.T. -0.25 min

Lab File: BF079583.D

Acq: 30 May 2015 4:13

Tgt Ion: 276 Resp: 9532

Ion Ratio Lower Upper

276 100

277 26.7 19.1 28.7

138 20.3 20.1 30.1

