

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050715\
 Data File : BF079016.D
 Acq On : 8 May 2015 2:46
 Operator : TP/IZ
 Sample : G2114-02DL 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)DL

Quant Time: May 08 04:48:38 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 08 04:33:44 2015
 Response via : Initial Calibration

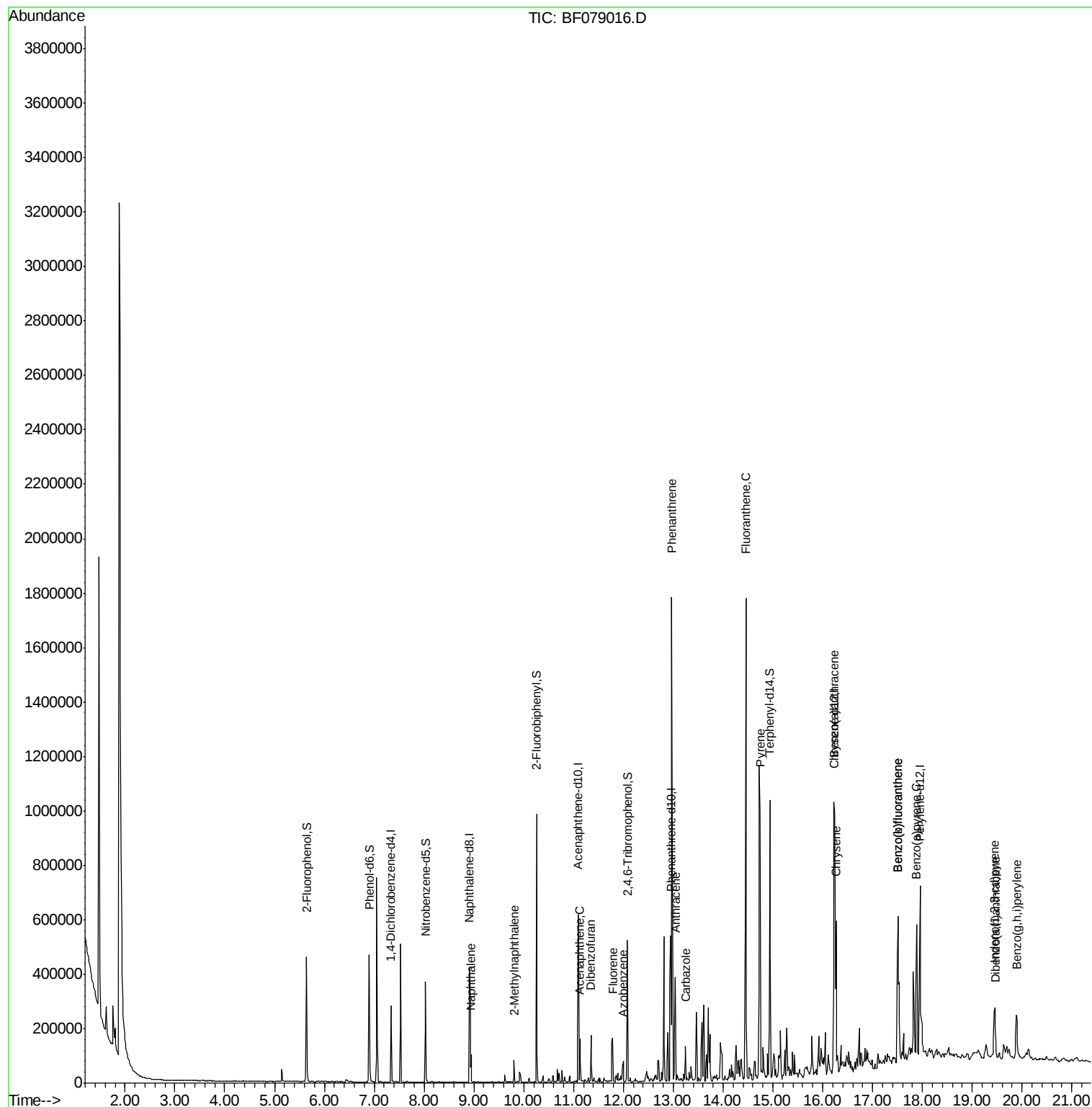
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.34	152	57446	20.00	ng	-0.01
21) Naphthalene-d8	8.91	136	250925	20.00	ng	-0.01
38) Acenaphthene-d10	11.10	164	127300	20.00	ng	0.00
63) Phenanthrene-d10	12.95	188	248220	20.00	ng	0.00
75) Chrysene-d12	16.24	240	279545	20.00	ng	-0.01
86) Perylene-d12	17.95	264	297861	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	180549	54.10	ng	0.00
7) Phenol-d6	6.90	99	248453	56.32	ng	0.00
23) Nitrobenzene-d5	8.03	82	136474	31.26	ng	0.00
41) 2,4,6-Tribromophenol	12.08	330	72455	52.61	ng	0.00
44) 2-Fluorobiphenyl	10.26	172	292979	32.06	ng	0.00
78) Terphenyl-d14	14.94	244	369184	31.62	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.95	128	51167	4.28	ng	97
37) 2-Methylnaphthalene	9.80	142	22445	2.71	ng	98
51) Acenaphthene	11.13	154	41580	5.38	ng	98
54) Dibenzofuran	11.35	168	69670	6.24	ng	98
57) Fluorene	11.78	166	64995	7.09	ng	99
62) Azobenzene	12.00	77	18928	2.08	ng	# 1
70) Phenanthrene	12.97	178	773195	55.68	ng	99
71) Anthracene	13.04	178	160472	11.78	ng	98
72) Carbazole	13.25	167	61891	4.77	ng	98
74) Fluoranthene	14.46	202	748276	51.71	ng	96
77) Pyrene	14.74	202	648788	40.28	ng	99
80) Benzo(a)anthracene	16.23	228	361866	23.64	ng	99
82) Chrysene	16.27	228	251367	17.07	ng	98
85) Indeno(1,2,3-cd)pyrene	19.45	276	146070	7.79	ng	# 100
87) Benzo(b)fluoranthene	17.51	252	443476	27.20	ng	98
88) Benzo(k)fluoranthene	17.51	252	447761	28.37	ng	98
89) Benzo(a)pyrene	17.89	252	235708	15.70	ng	98
90) Dibenzo(a,h)anthracene	19.46	278	37147	2.33	ng	# 88
91) Benzo(g,h,i)perylene	19.89	276	131546	8.23	ng	96

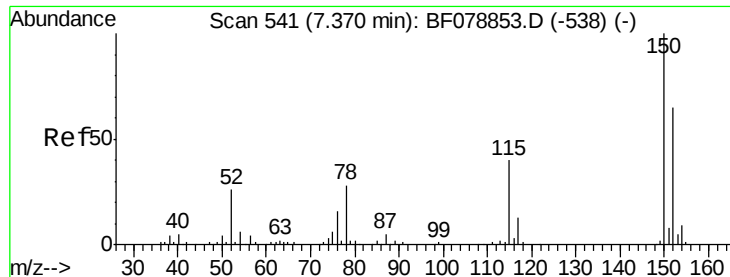
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.34 min Scan# 538

Delta R.T. -0.01 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL

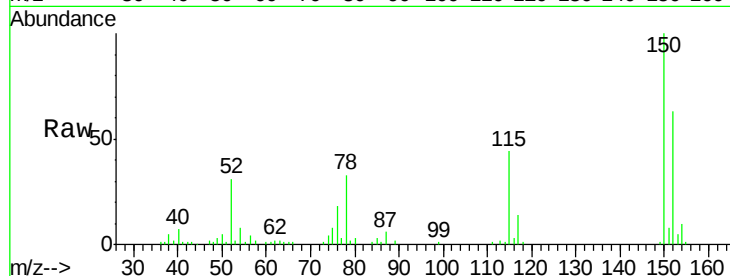
Tgt Ion:152 Resp: 57446

Ion Ratio Lower Upper

152 100

150 160.0 122.0 183.0

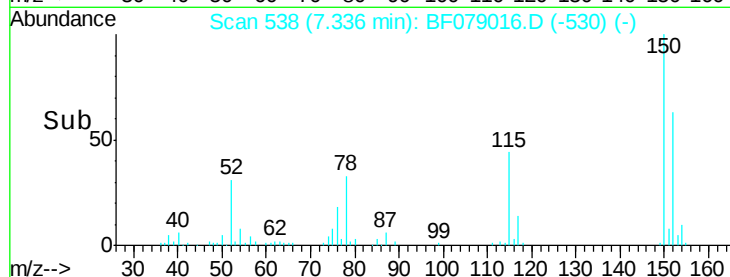
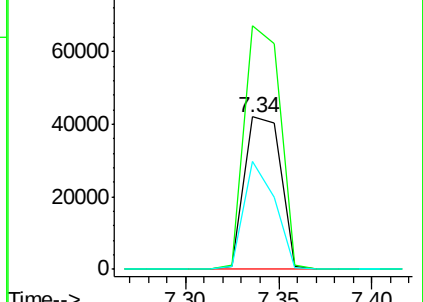
115 70.7 46.3 69.5#



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: 54.10 ng

RT: 5.64 min Scan# 390

Delta R.T. 0.00 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

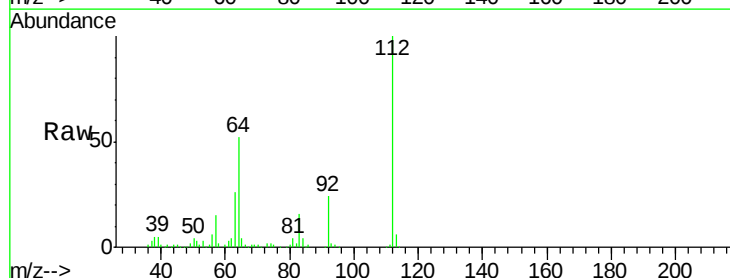
Tgt Ion:112 Resp: 180549

Ion Ratio Lower Upper

112 100

64 52.2 53.5 80.3#

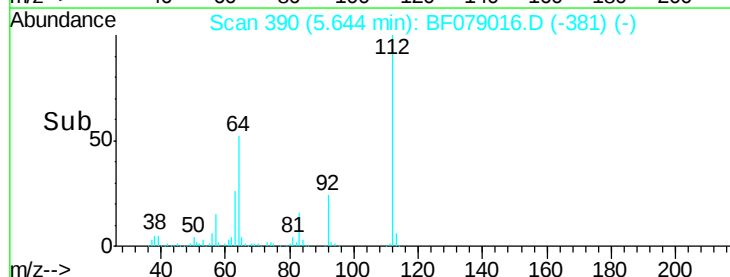
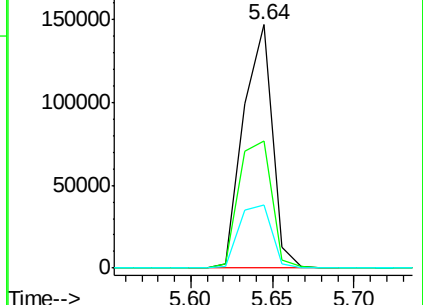
63 25.7 27.5 41.3#

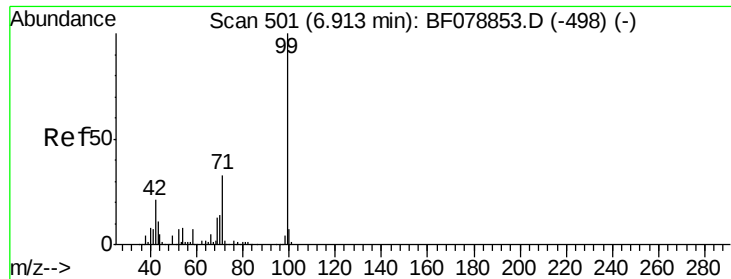


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 56.32 ng

RT: 6.90 min Scan# 500

Delta R.T. 0.00 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL

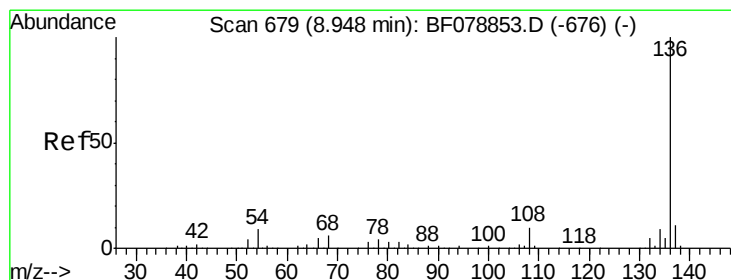
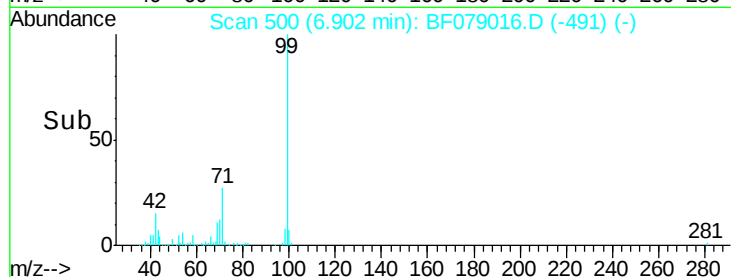
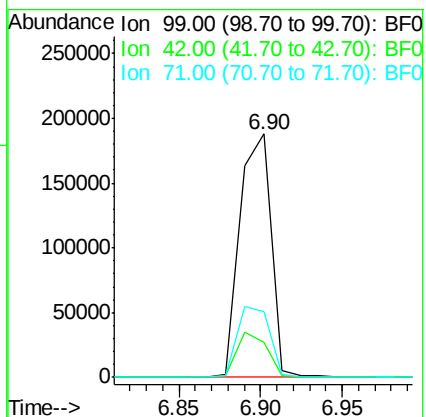
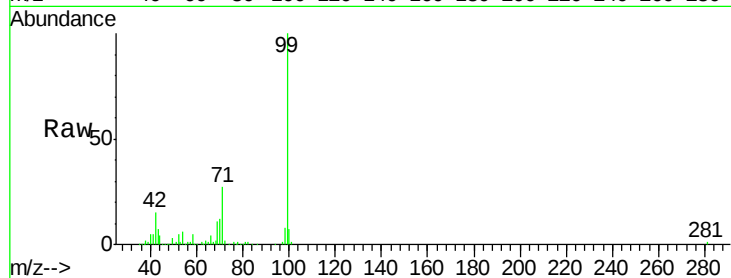
Tgt Ion: 99 Resp: 248453

Ion Ratio Lower Upper

99 100

42 14.6 12.8 19.2

71 26.8 23.4 35.2



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.91 min Scan# 676

Delta R.T. -0.01 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Tgt Ion: 136 Resp: 250925

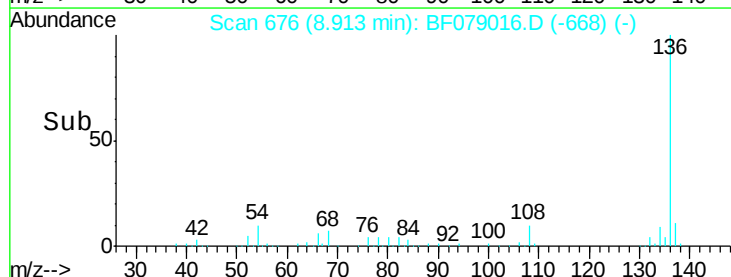
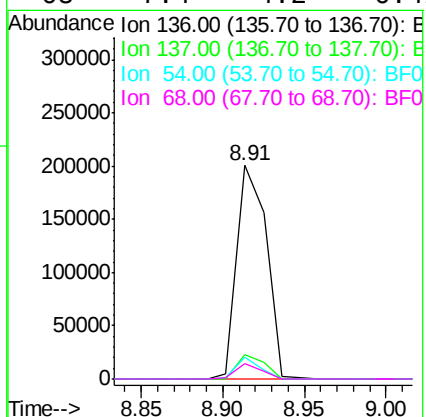
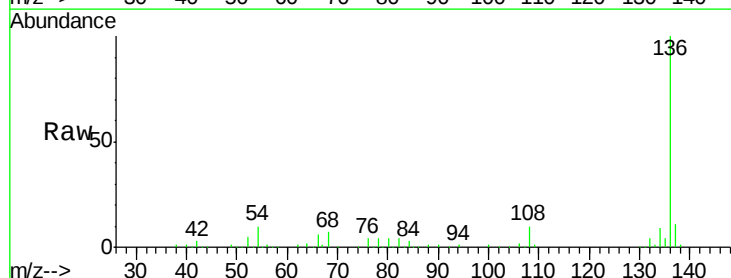
Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 10.2 5.8 8.8#

68 7.4 4.2 6.4#





#23

Nitrobenzene-d5

Concen: 31.26 ng

RT: 8.03 min Scan# 599

Delta R.T. 0.00 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL

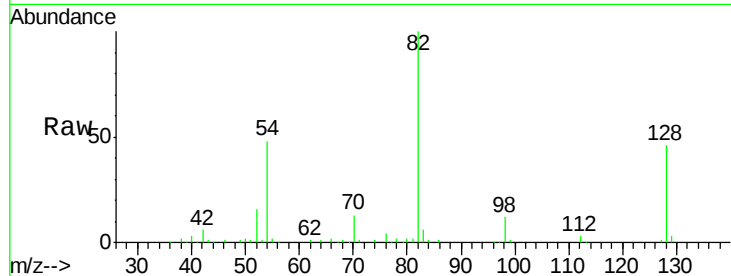
Tgt Ion: 82 Resp: 136474

Ion Ratio Lower Upper

82 100

128 46.1 30.0 45.0#

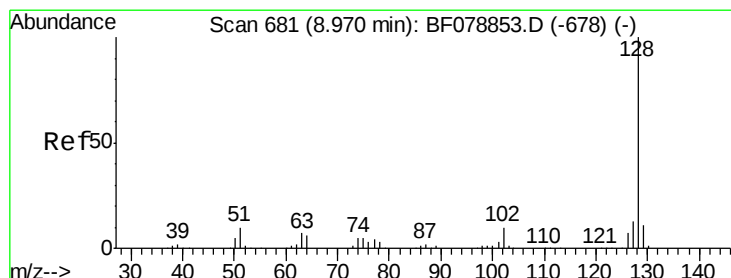
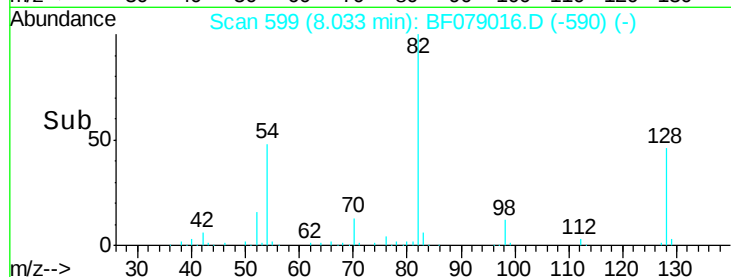
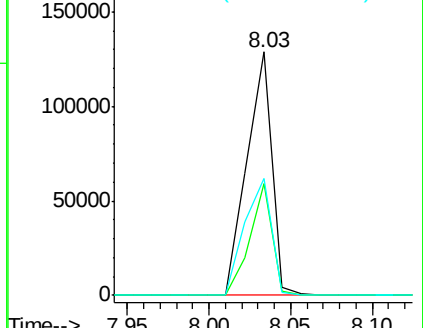
54 48.1 46.4 69.6



Abundance Ion 82.00 (81.70 to 82.70): BF079016.D (-599) (-)

Ion 128.00 (127.70 to 128.70): BF079016.D (-599) (-)

Ion 54.00 (53.70 to 54.70): BF079016.D (-599) (-)



#31

Naphthalene

Concen: 4.28 ng

RT: 8.95 min Scan# 679

Delta R.T. 0.00 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

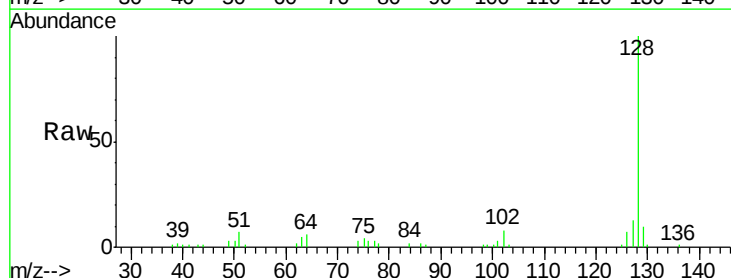
Tgt Ion: 128 Resp: 51167

Ion Ratio Lower Upper

128 100

129 10.2 9.3 13.9

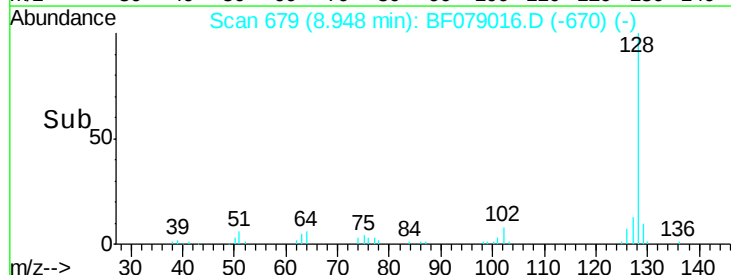
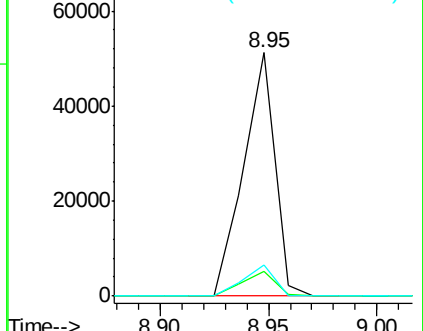
127 12.7 10.7 16.1

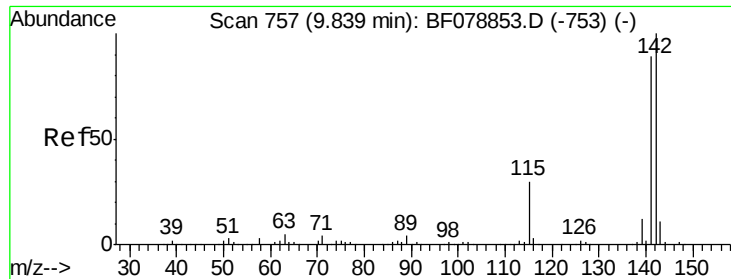


Abundance Ion 128.00 (127.70 to 128.70): BF079016.D (-678) (-)

Ion 129.00 (128.70 to 129.70): BF079016.D (-678) (-)

Ion 127.00 (126.70 to 127.70): BF079016.D (-678) (-)

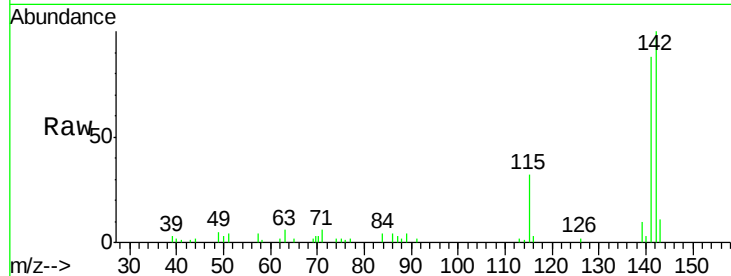




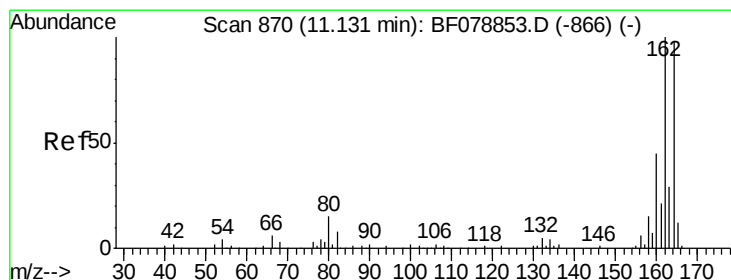
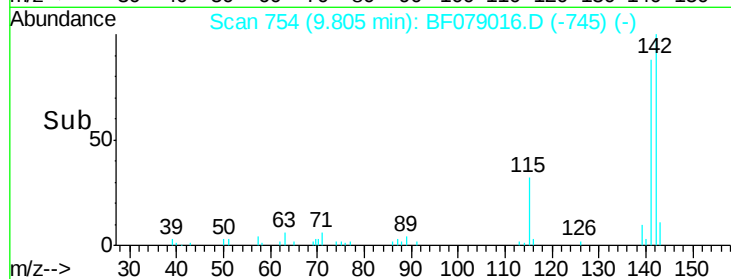
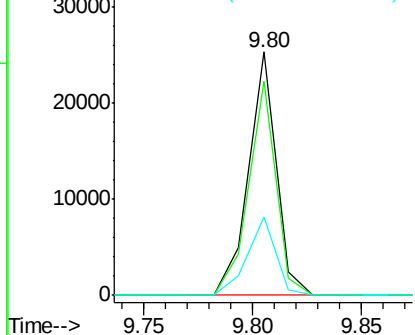
#37
 2-Methylnaphthalene
 Concen: 2.71 ng
 RT: 9.80 min Scan# 754
 Delta R.T. 0.00 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

Instrument :
 BNA_F
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 GRID-1(6-12)DL

Tgt Ion:142 Resp: 22445
 Ion Ratio Lower Upper
 142 100
 141 87.7 70.9 106.3
 115 32.4 28.5 42.7

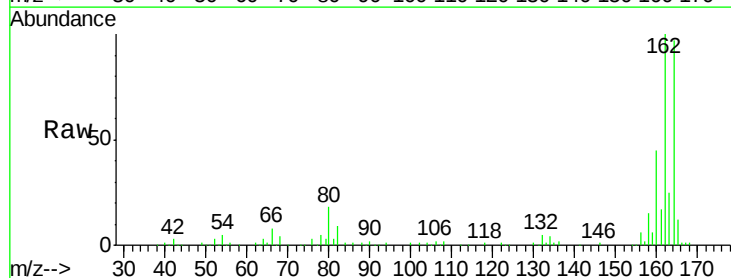


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

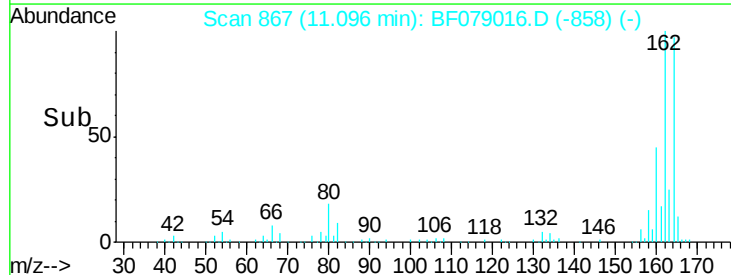
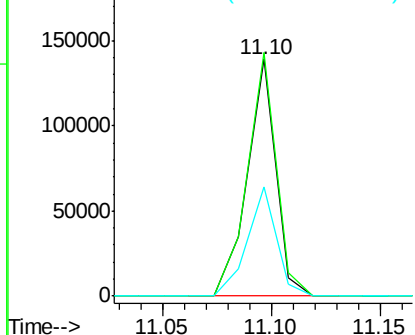


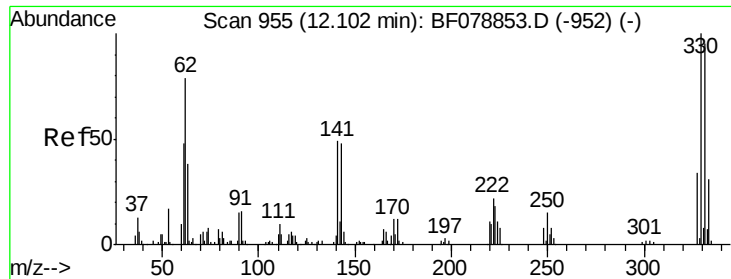
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 867
 Delta R.T. 0.00 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

Tgt Ion:164 Resp: 127300
 Ion Ratio Lower Upper
 164 100
 162 102.7 82.7 124.1
 160 46.2 35.8 53.8



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

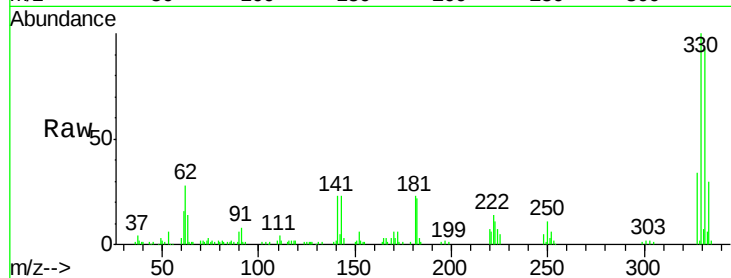




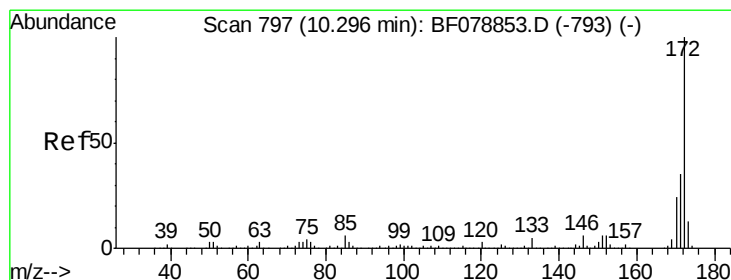
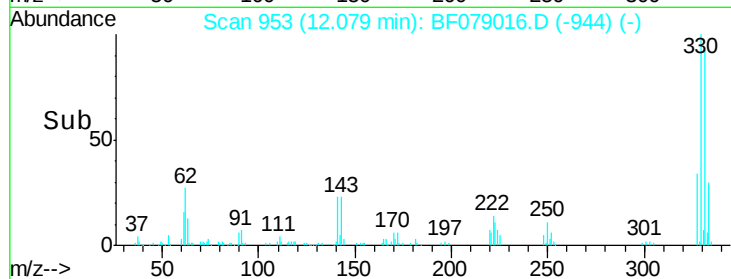
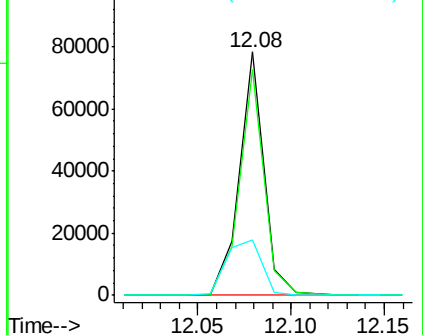
#41
 2,4,6-Tribromophenol
 Concen: 52.61 ng
 RT: 12.08 min Scan# 953
 Delta R.T. 0.00 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)DL

Tgt Ion:330 Resp: 72455
 Ion Ratio Lower Upper
 330 100
 332 93.0 0.0 0.0#
 141 33.4 0.0 0.0#

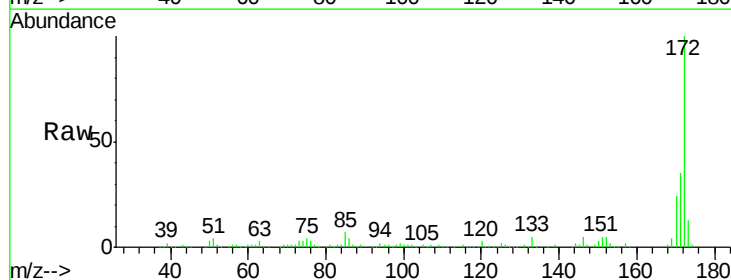


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

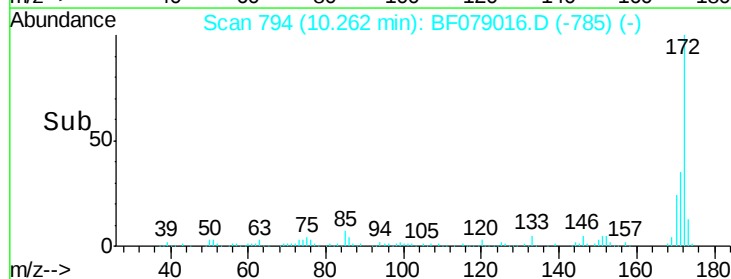
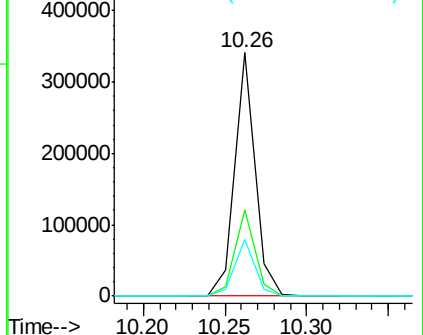


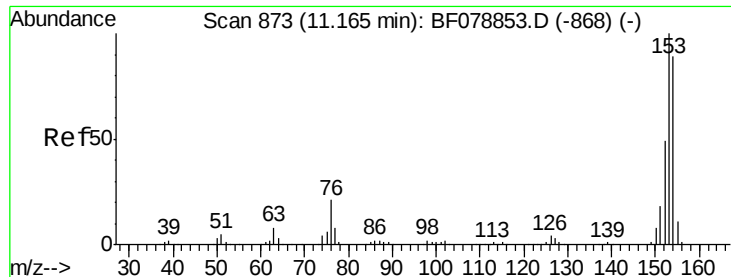
#44
 2-Fluorobiphenyl
 Concen: 32.06 ng
 RT: 10.26 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

Tgt Ion:172 Resp: 292979
 Ion Ratio Lower Upper
 172 100
 171 35.2 27.9 41.9
 170 23.5 19.4 29.0



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





#51

Acenaphthene

Concen: 5.38 ng

RT: 11.13 min Scan# 870

Delta R.T. -0.01 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL

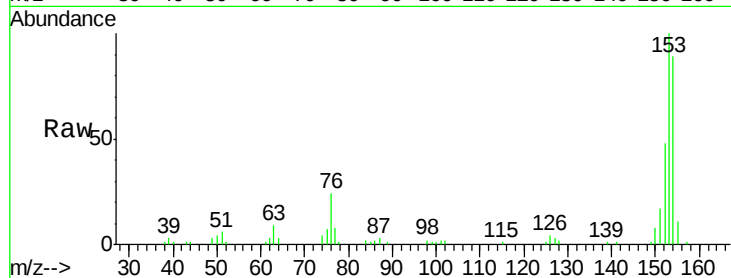
Tgt Ion:154 Resp: 41580

Ion Ratio Lower Upper

154 100

153 112.7 91.5 137.3

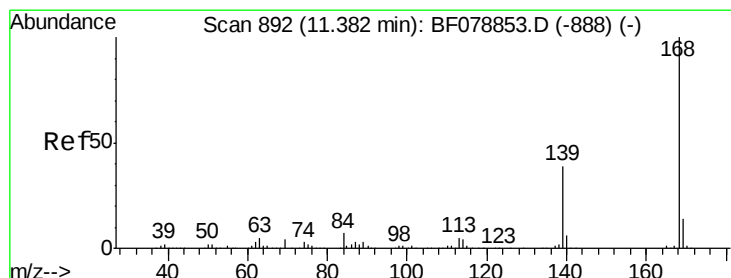
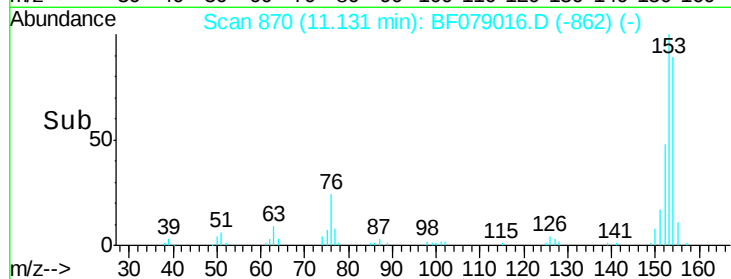
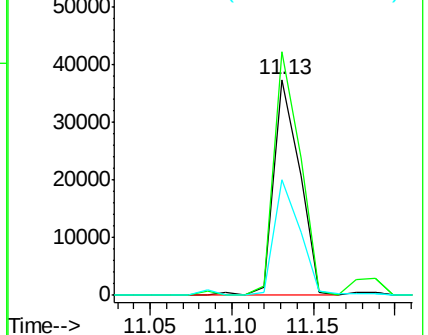
152 53.8 44.2 66.4



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



#54

Dibenzofuran

Concen: 6.24 ng

RT: 11.35 min Scan# 889

Delta R.T. 0.00 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

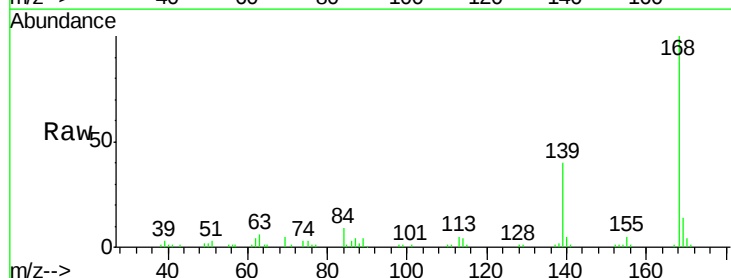
Tgt Ion:168 Resp: 69670

Ion Ratio Lower Upper

168 100

139 39.9 31.0 46.4

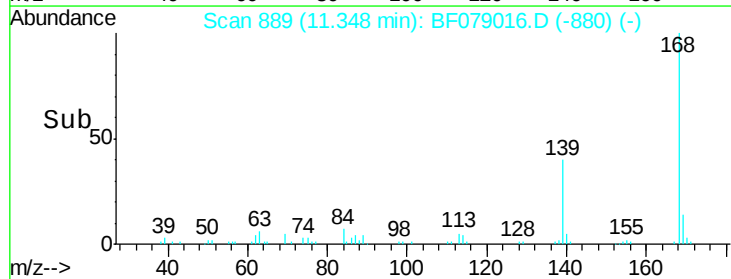
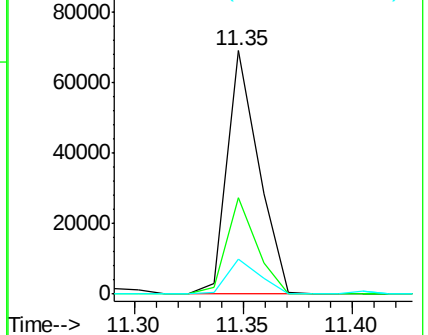
169 14.2 10.6 16.0

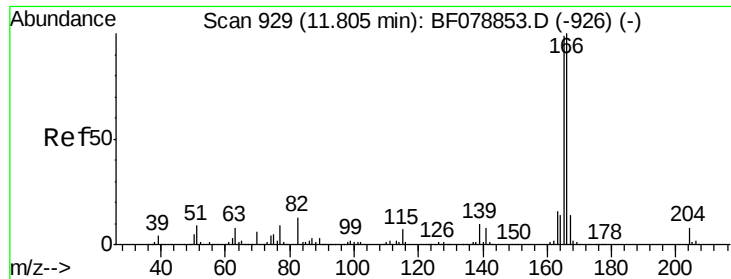


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

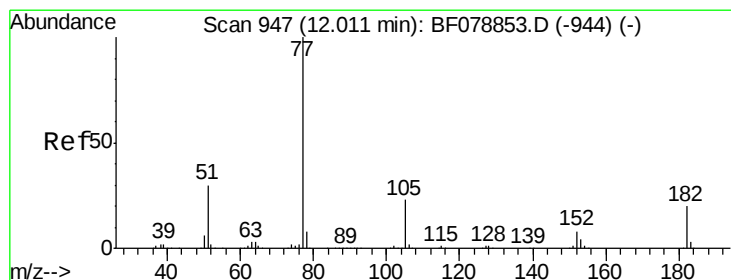
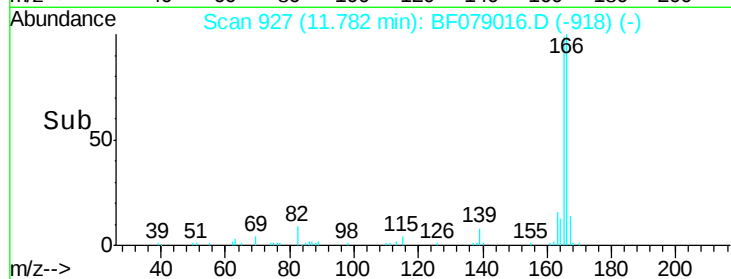
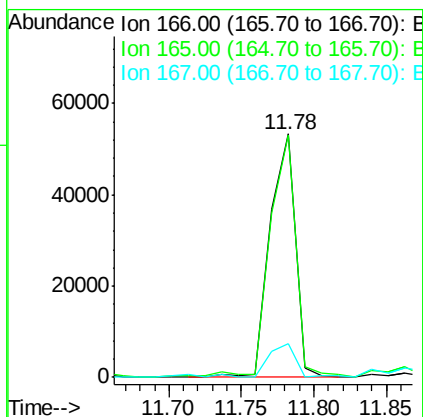
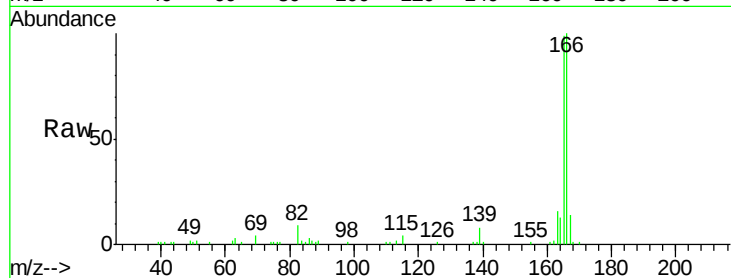




#57
 Fluorene
 Concen: 7.09 ng
 RT: 11.78 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

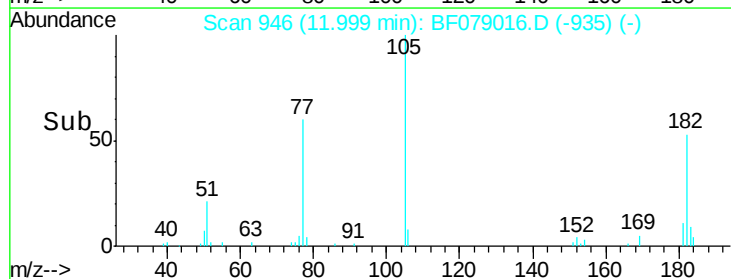
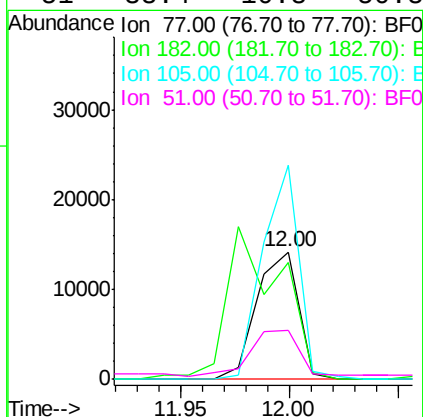
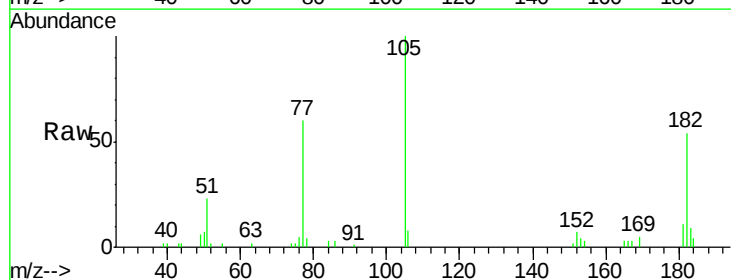
Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)DL

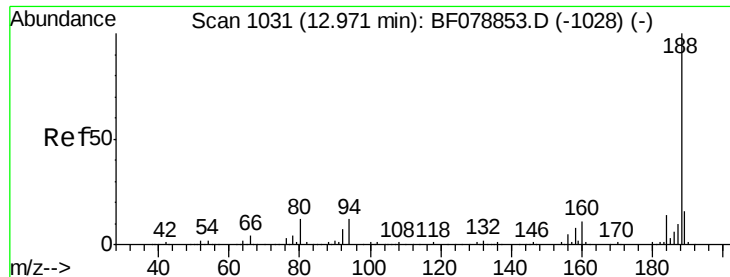
Tgt Ion: 166 Resp: 64995
 Ion Ratio Lower Upper
 166 100
 165 99.4 78.5 117.7
 167 13.6 11.0 16.6



#62
 Azobenzene
 Concen: 2.08 ng
 RT: 12.00 min Scan# 946
 Delta R.T. 0.02 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

Tgt Ion: 77 Resp: 18928
 Ion Ratio Lower Upper
 77 100
 182 91.4 3.8 43.8#
 105 168.0 3.9 43.9#
 51 38.4 10.8 50.8

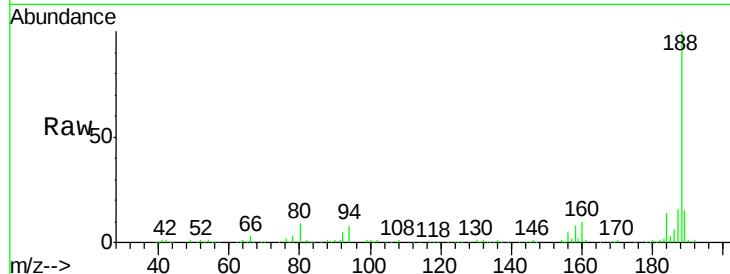




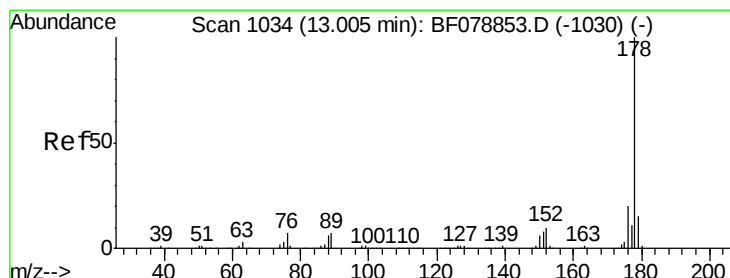
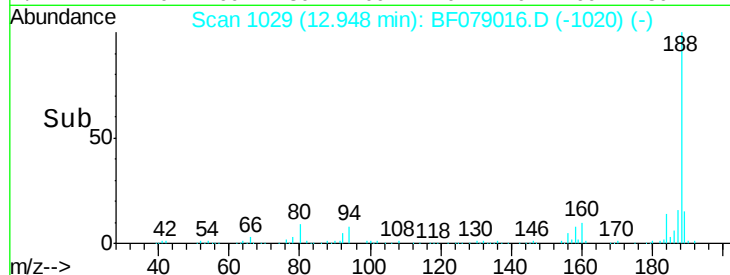
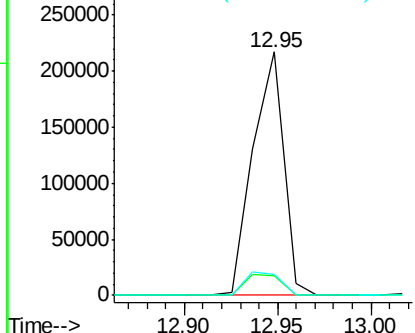
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.95 min Scan# 1029
Delta R.T. 0.00 min
Lab File: BF079016.D
Acq: 8 May 2015 2:46

Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)DL

Tgt Ion:188 Resp: 248220
Ion Ratio Lower Upper
188 100
94 8.2 8.2 12.2
80 8.6 8.9 13.3#

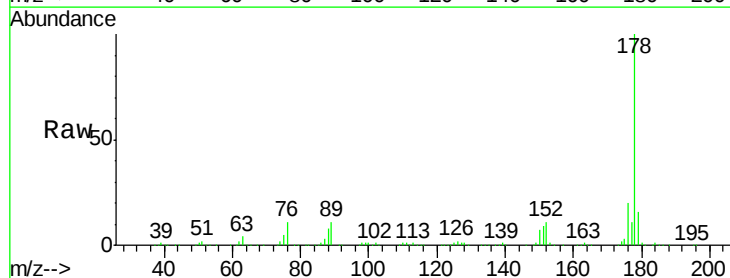


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

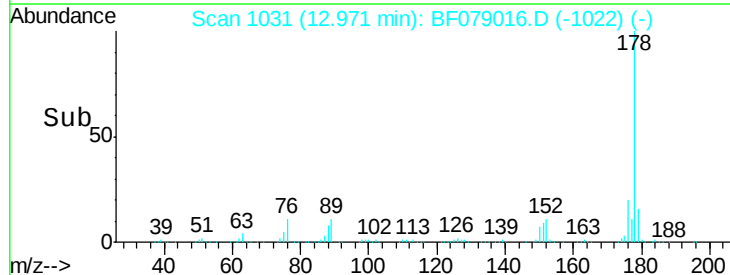
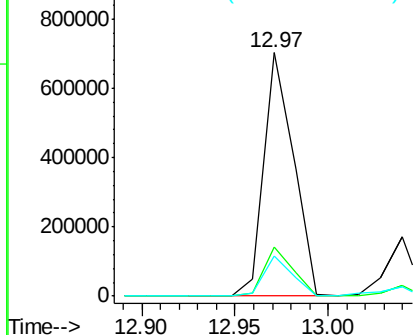


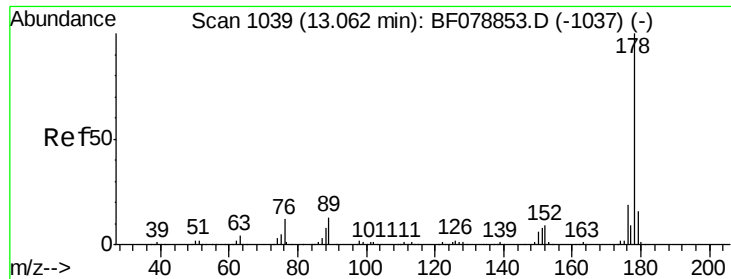
#70
Phenanthrene
Concen: 55.68 ng
RT: 12.97 min Scan# 1031
Delta R.T. 0.00 min
Lab File: BF079016.D
Acq: 8 May 2015 2:46

Tgt Ion:178 Resp: 773195
Ion Ratio Lower Upper
178 100
176 20.0 15.8 23.8
179 16.2 12.5 18.7



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

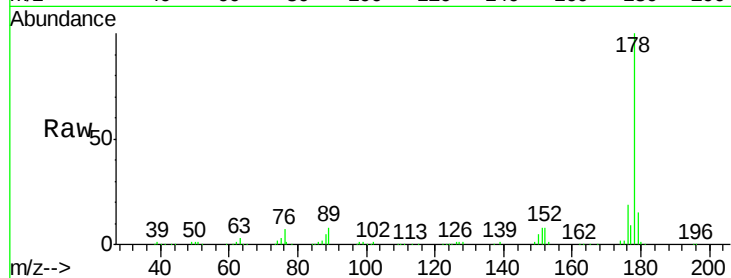




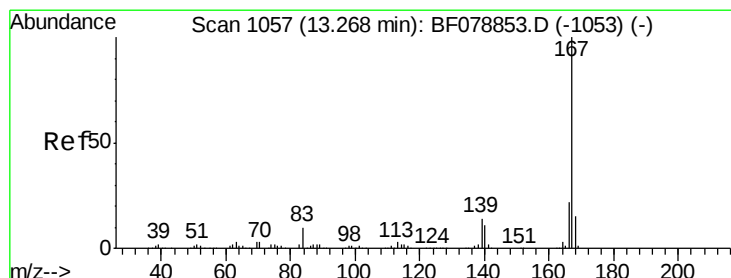
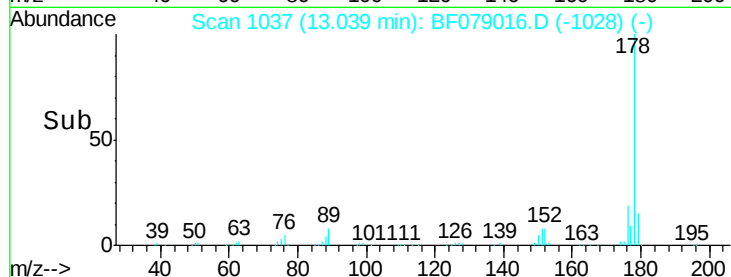
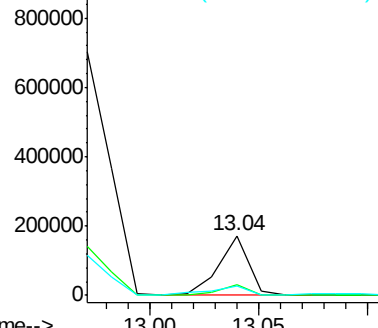
#71
 Anthracene
 Concen: 11.78 ng
 RT: 13.04 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)DL

Tgt Ion:178 Resp: 160472
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.5 23.3
 179 15.2 12.7 19.1

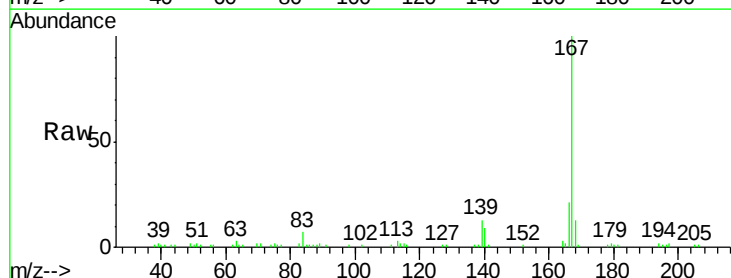


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

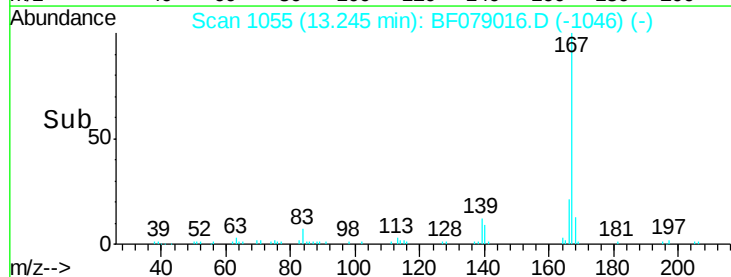
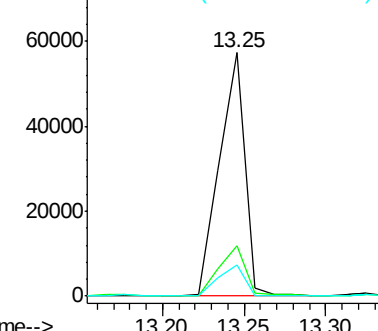


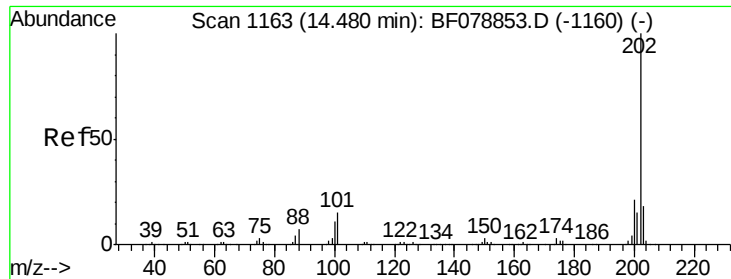
#72
 Carbazole
 Concen: 4.77 ng
 RT: 13.25 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

Tgt Ion:167 Resp: 61891
 Ion Ratio Lower Upper
 167 100
 166 20.9 17.8 26.8
 139 12.6 10.6 16.0



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





#74

Fluoranthene

Concen: 51.71 ng

RT: 14.46 min Scan# 1161

Delta R.T. 0.00 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL

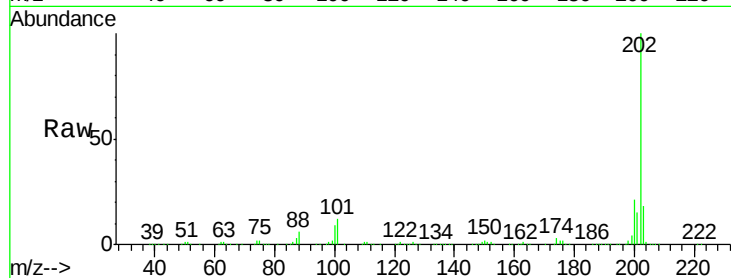
Tgt Ion:202 Resp: 748276

Ion Ratio Lower Upper

202 100

101 11.9 0.0 34.6

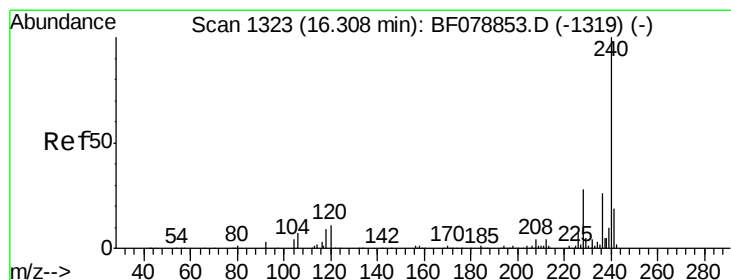
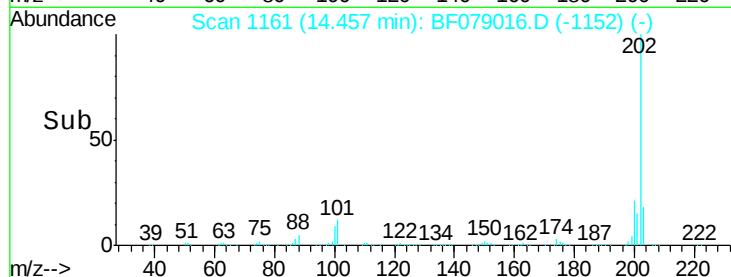
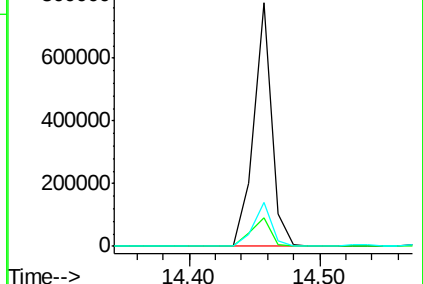
203 17.8 0.0 38.4



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: 16.24 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

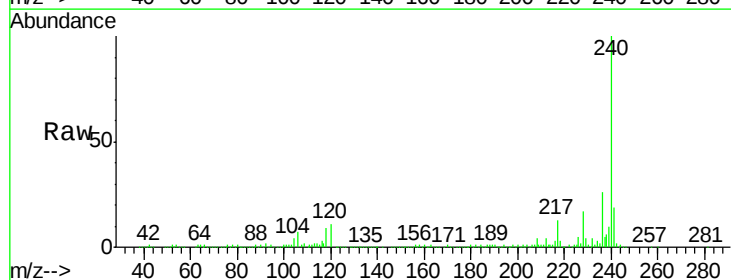
Tgt Ion:240 Resp: 279545

Ion Ratio Lower Upper

240 100

120 11.1 9.7 14.5

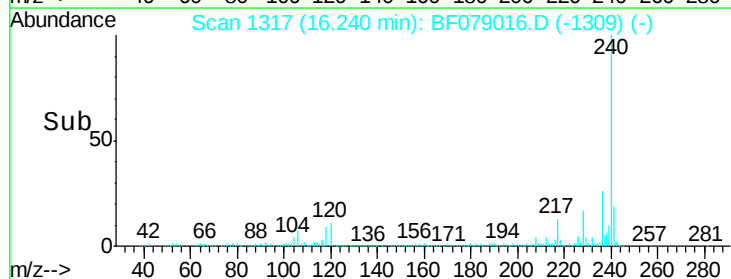
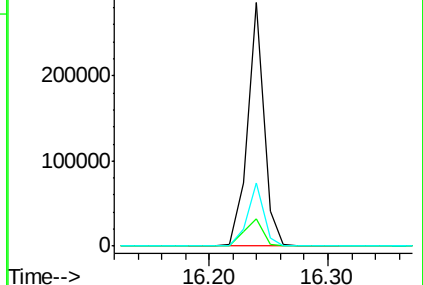
236 26.0 20.2 30.4

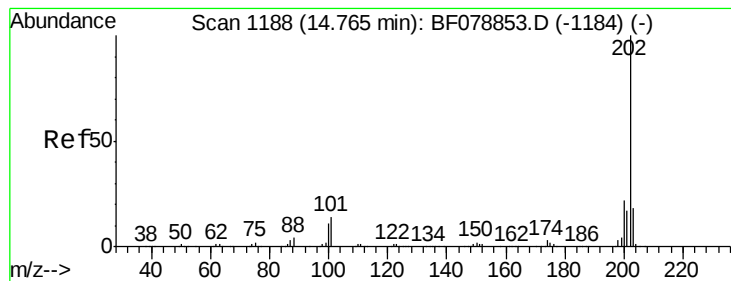


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 40.28 ng

RT: 14.74 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL

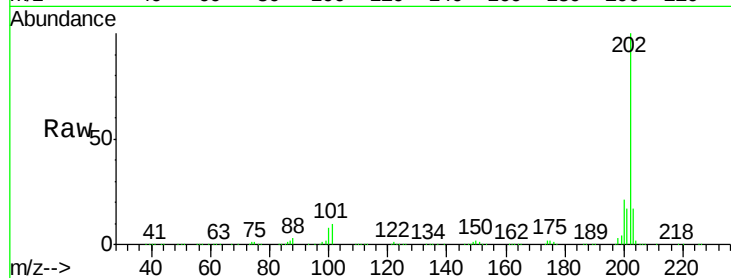
Tgt Ion:202 Resp: 648788

Ion Ratio Lower Upper

202 100

200 20.9 17.5 26.3

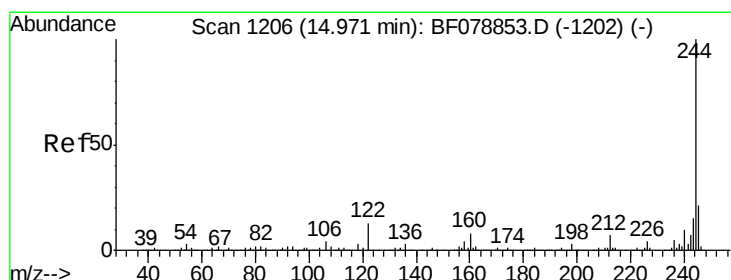
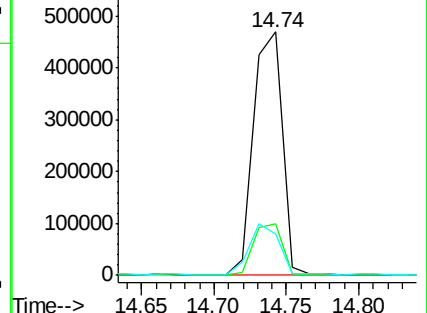
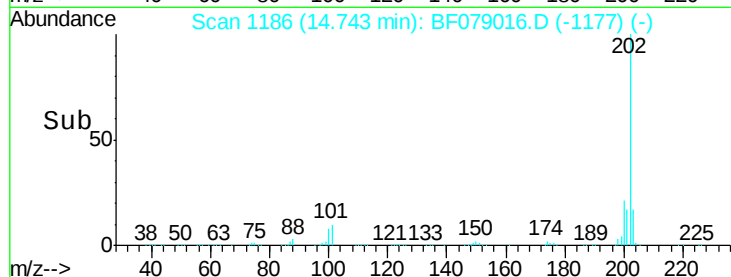
203 17.2 13.9 20.9



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: 31.62 ng

RT: 14.94 min Scan# 1203

Delta R.T. -0.01 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

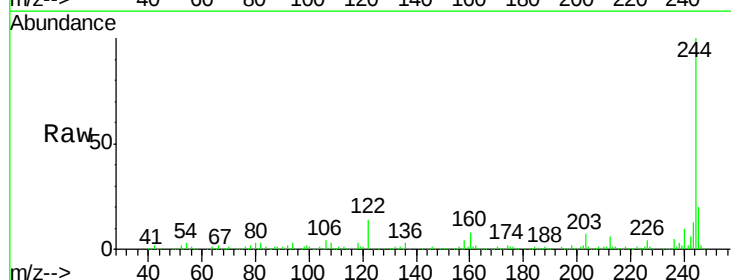
Tgt Ion:244 Resp: 369184

Ion Ratio Lower Upper

244 100

212 6.4 5.6 8.4

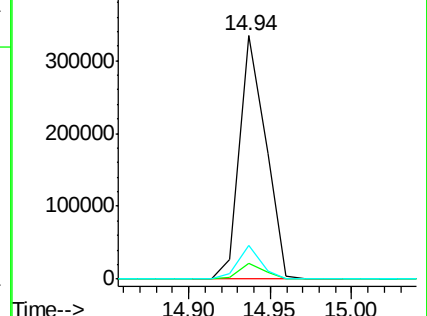
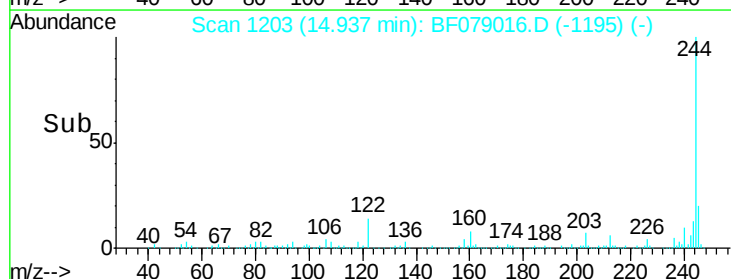
122 13.9 10.3 15.5

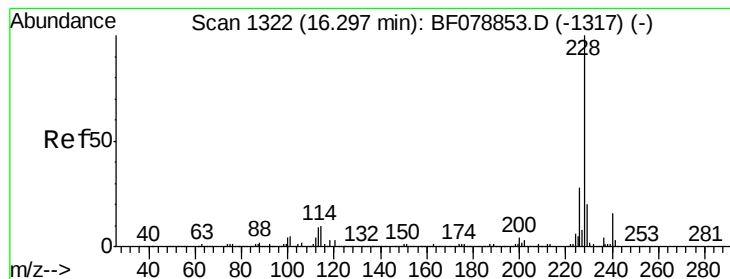


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 23.64 ng

RT: 16.23 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL

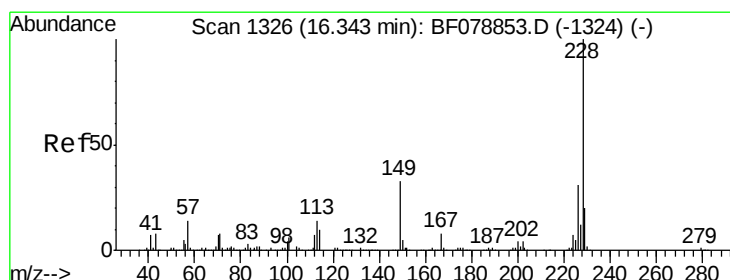
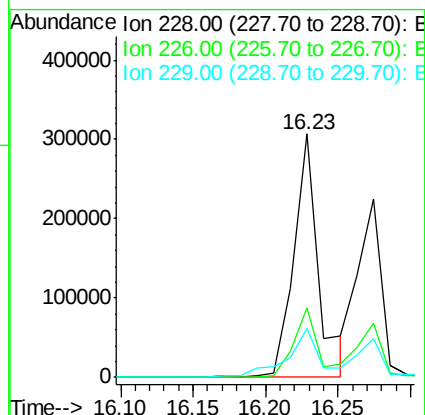
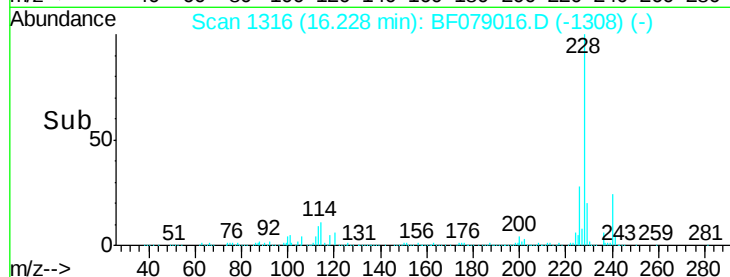
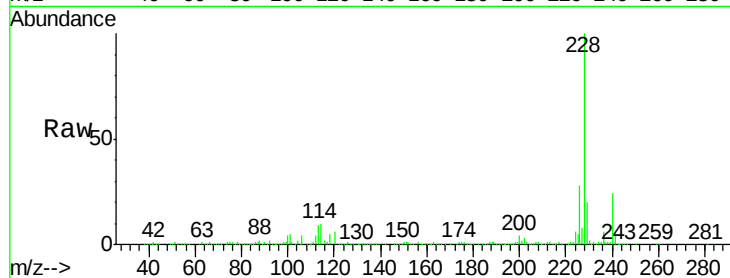
Tgt Ion:228 Resp: 361866

Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

229 20.3 15.9 23.9



#82

Chrysene

Concen: 17.07 ng

RT: 16.27 min Scan# 1320

Delta R.T. 0.00 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

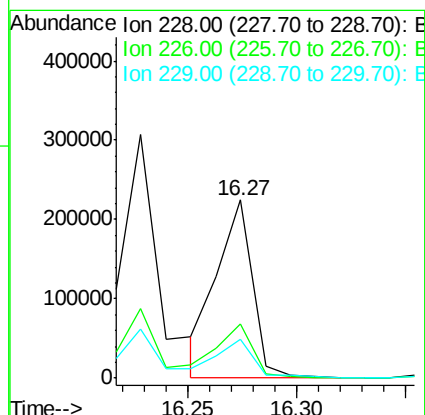
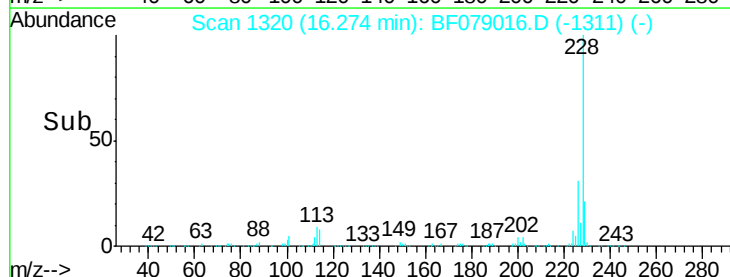
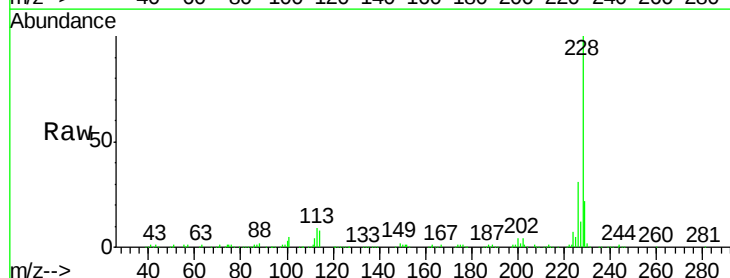
Tgt Ion:228 Resp: 251367

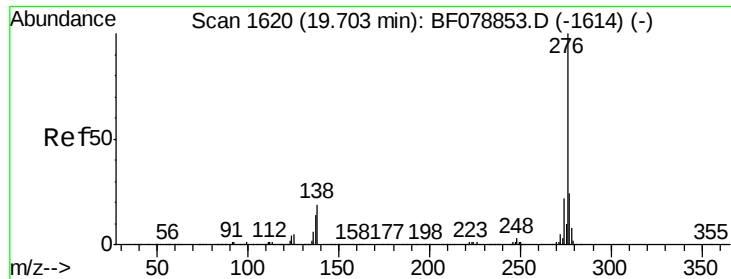
Ion Ratio Lower Upper

228 100

226 30.6 24.9 37.3

229 21.7 16.0 24.0

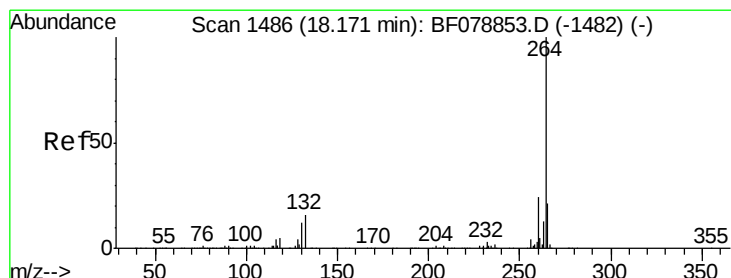
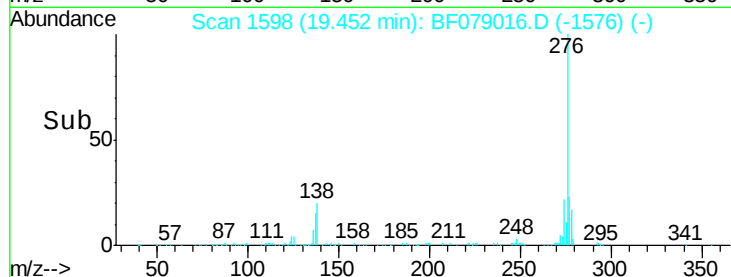
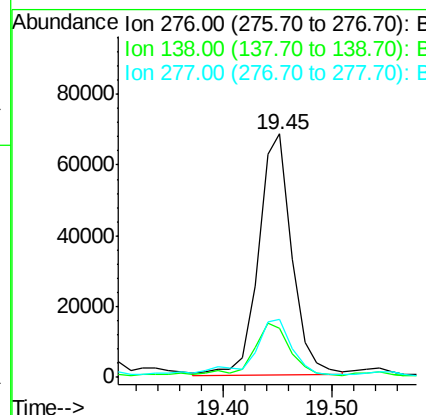
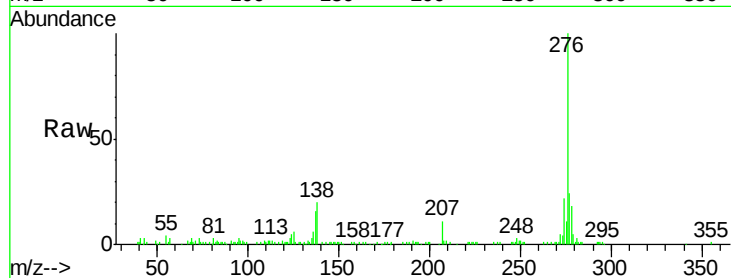




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.79 ng
 RT: 19.45 min Scan# 1598
 Delta R.T. -0.05 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

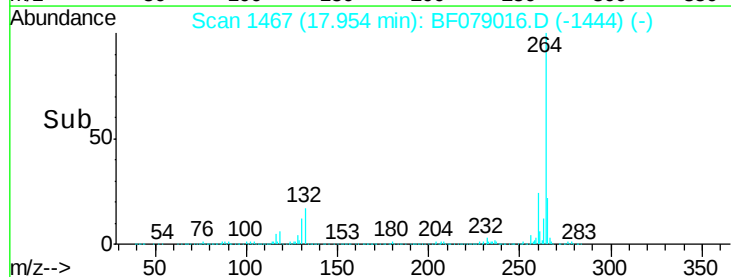
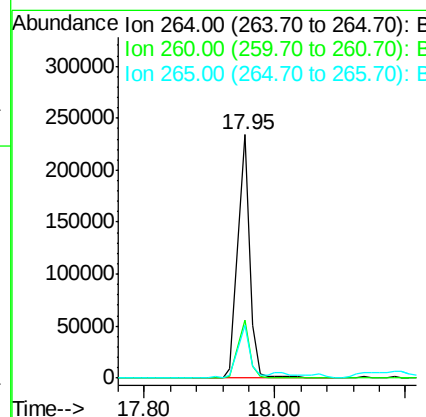
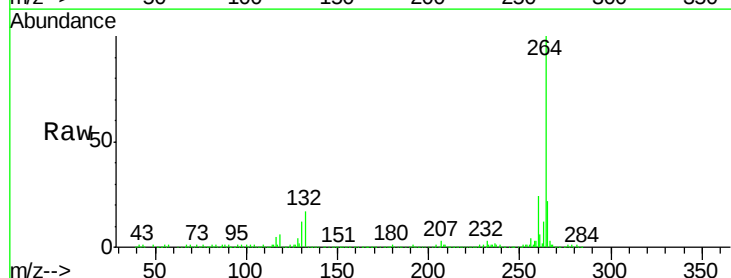
Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)DL

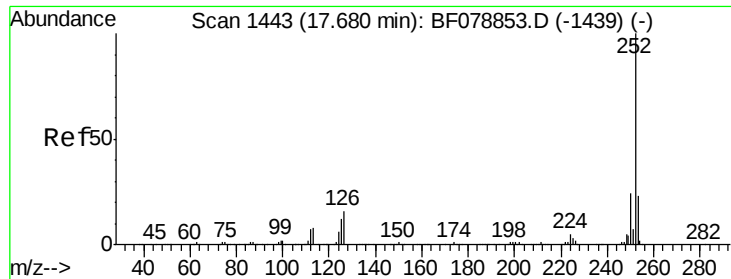
Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.0	0.0	0.0#
277	27.6	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.95 min Scan# 1467
 Delta R.T. -0.03 min
 Lab File: BF079016.D
 Acq: 8 May 2015 2:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.8	18.3	27.5

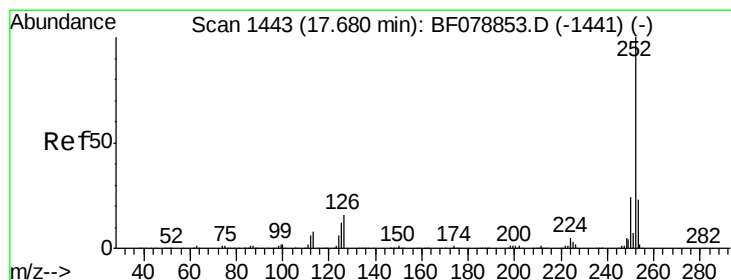
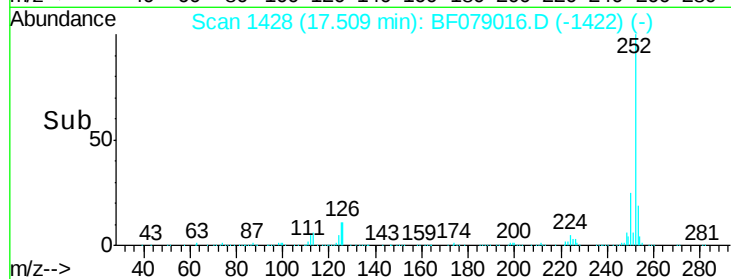
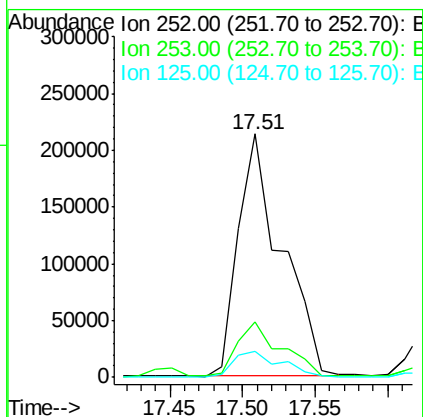
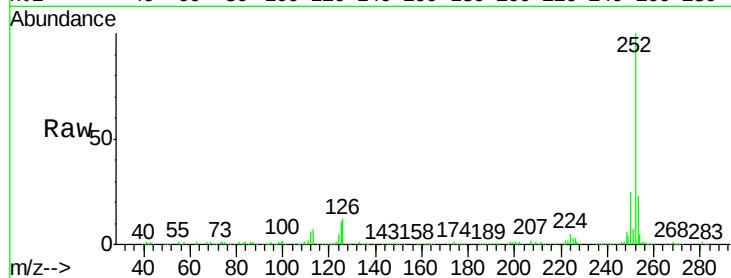




#87
Benzo(b)fluoranthene
Concen: 27.20 ng
RT: 17.51 min Scan# 1428
Delta R.T. -0.03 min
Lab File: BF079016.D
Acq: 8 May 2015 2:46

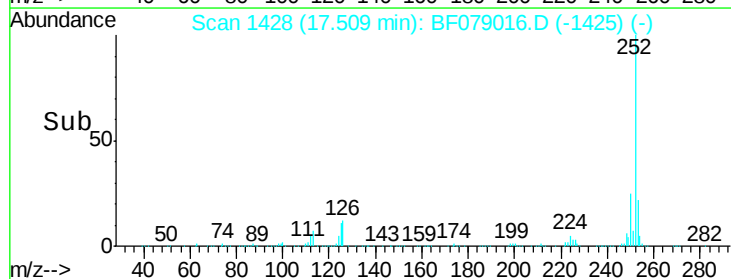
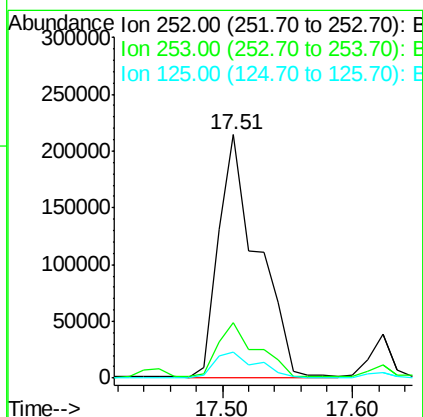
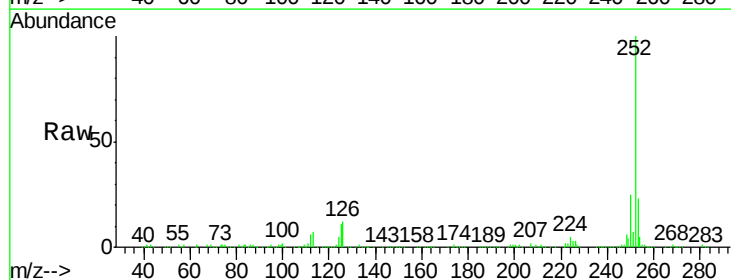
Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)DL

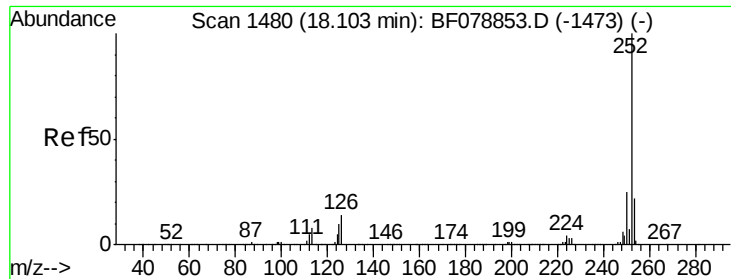
Tgt Ion:252 Resp: 443476
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 10.8 9.5 14.3



#88
Benzo(k)fluoranthene
Concen: 28.37 ng
RT: 17.51 min Scan# 1428
Delta R.T. -0.07 min
Lab File: BF079016.D
Acq: 8 May 2015 2:46

Tgt Ion:252 Resp: 447761
Ion Ratio Lower Upper
252 100
253 22.6 18.1 27.1
125 10.8 10.0 15.0





#89

Benzo(a)pyrene

Concen: 15.70 ng

RT: 17.89 min Scan# 1461

Delta R.T. -0.05 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL

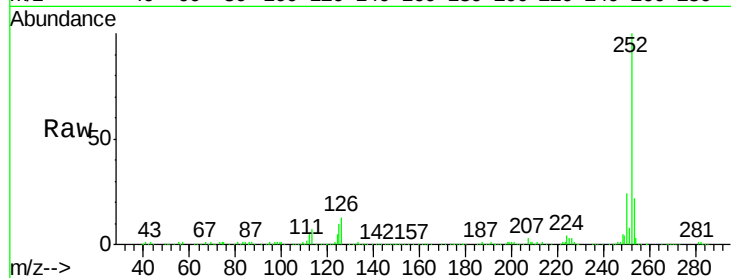
Tgt Ion:252 Resp: 235708

Ion Ratio Lower Upper

252 100

253 22.4 17.3 25.9

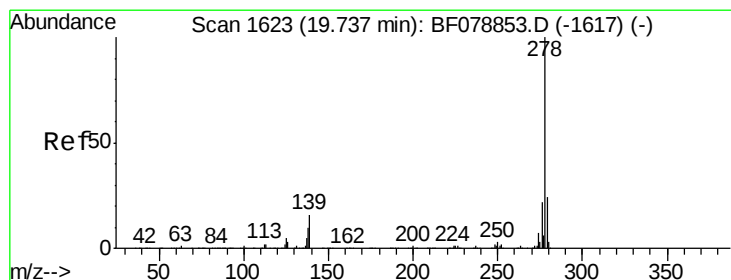
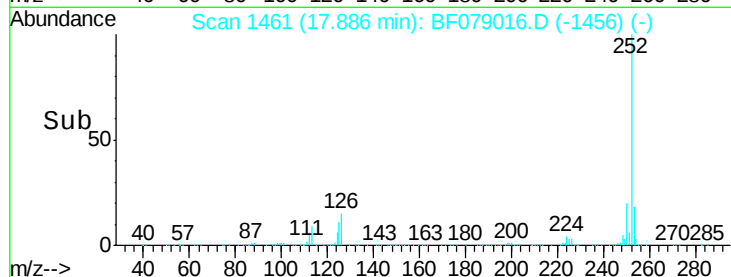
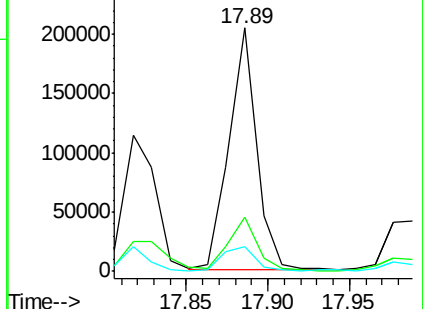
125 10.1 7.0 10.6



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



#90

Dibenzo(a,h)anthracene

Concen: 2.33 ng

RT: 19.46 min Scan# 1599

Delta R.T. -0.07 min

Lab File: BF079016.D

Acq: 8 May 2015 2:46

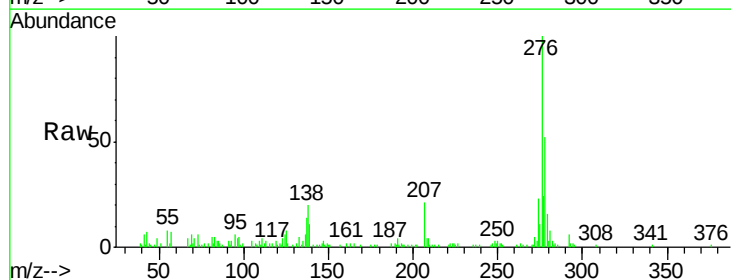
Tgt Ion:278 Resp: 37147

Ion Ratio Lower Upper

278 100

139 21.3 12.8 19.2#

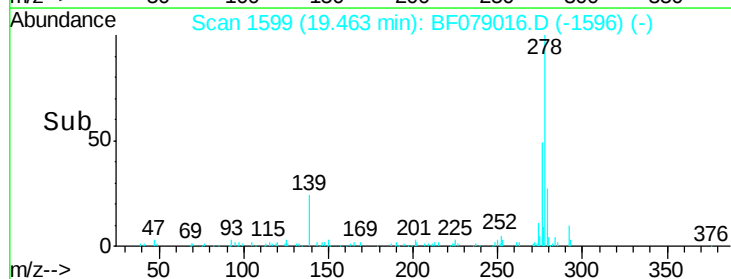
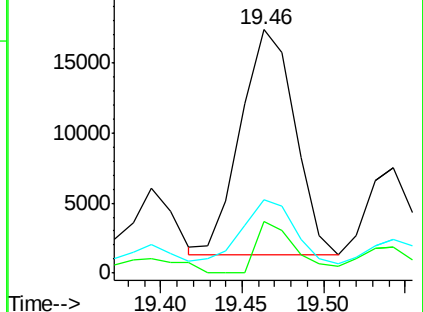
279 30.1 19.6 29.4#

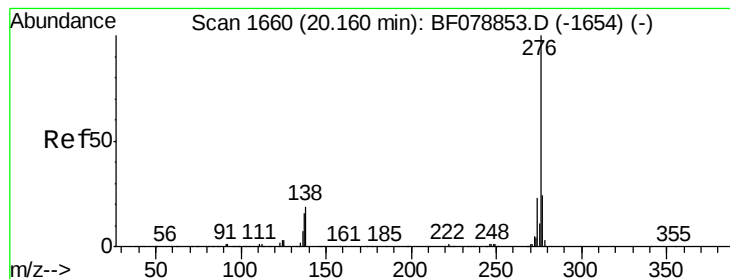


Abundance Ion 278.00 (277.70 to 278.70): E

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: 8.23 ng

RT: 19.89 min Scan# 1636

Delta R.T. -0.07 min

Lab File: BF079016.D

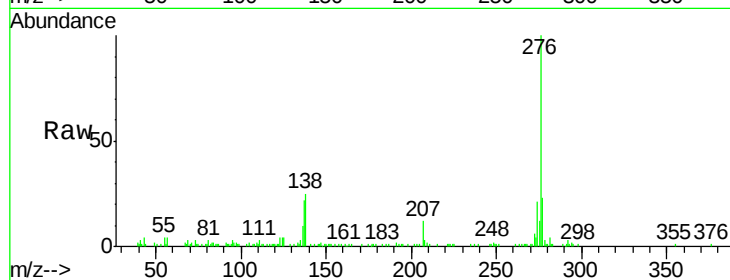
Acq: 8 May 2015 2:46

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)DL



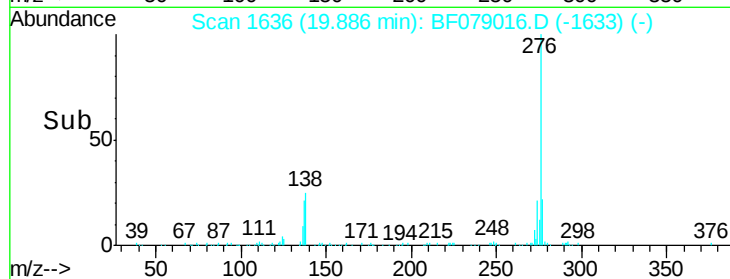
Tgt Ion:276 Resp: 131546

Ion Ratio Lower Upper

276 100

277 22.9 18.6 28.0

138 25.2 17.4 26.0



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

