

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030615\
 Data File : BF077634.D
 Acq On : 6 Mar 2015 21:02
 Operator : TP/IZ
 Sample : G1424-08DL 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEP-1DL

Quant Time: Mar 06 22:36:31 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 06 22:10:32 2015
 Response via : Initial Calibration

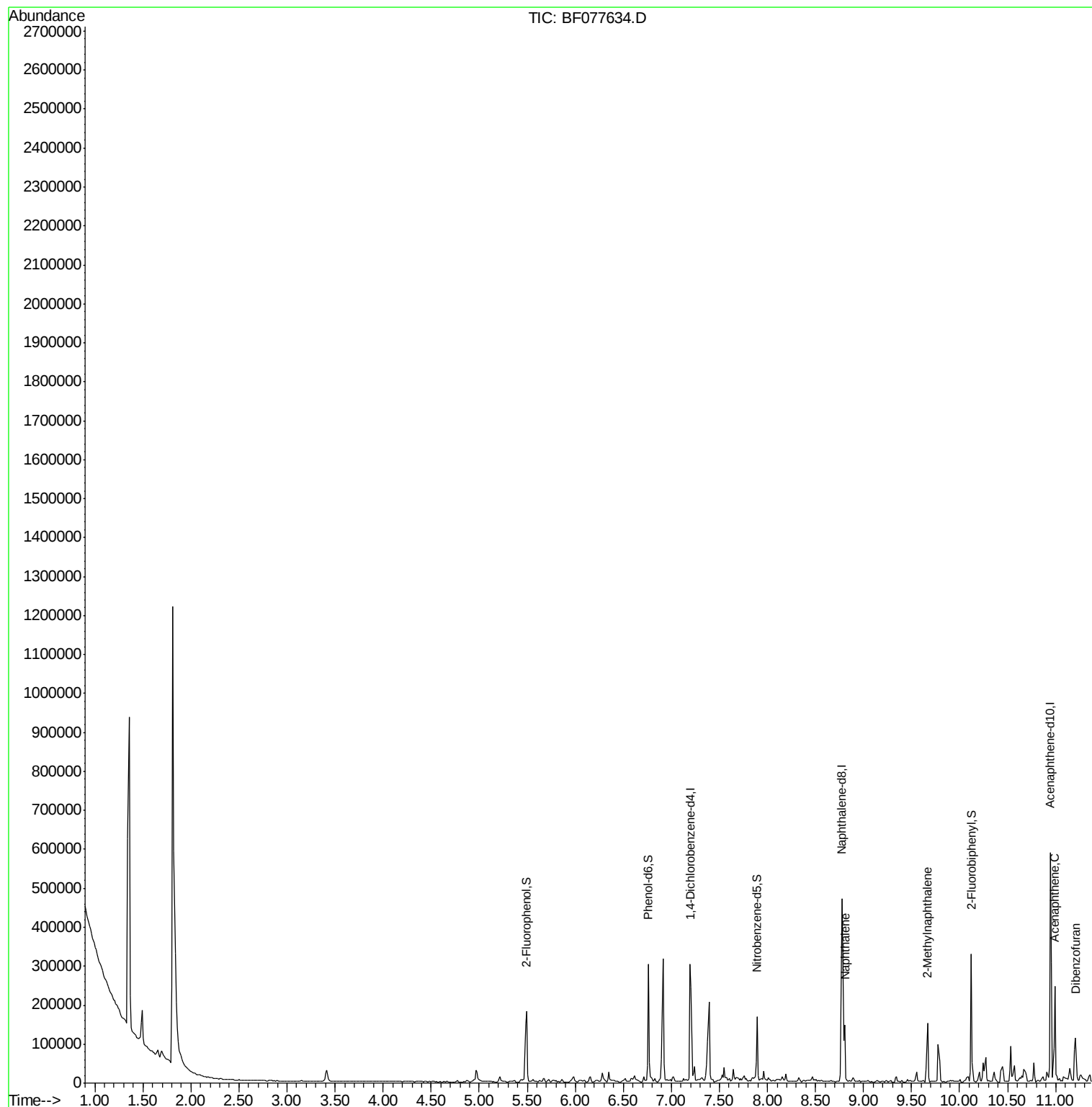
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.20	152	63361	20.00	ng	0.00
21) Naphthalene-d8	8.78	136	261725	20.00	ng	0.00
38) Acenaphthene-d10	10.95	164	131133	20.00	ng	0.00
63) Phenanthrene-d10	12.79	188	264297	20.00	ng	0.00
75) Chrysene-d12	16.08	240	271521	20.00	ng	0.00
86) Perylene-d12	17.85	264	275766	20.00	ng	0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	73301	19.31	ng	0.00
7) Phenol-d6	6.76	99	99164	20.32	ng	0.00
23) Nitrobenzene-d5	7.89	82	51864	12.32	ng	0.00
41) 2,4,6-Tribromophenol	11.93	330	22680	17.96	ng	0.00
44) 2-Fluorobiphenyl	10.12	172	99976	11.89	ng	0.00
78) Terphenyl-d14	14.78	244	95008	8.18	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.80	128	79353	6.06	ng	97
37) 2-Methylnaphthalene	9.66	142	41200	4.43	ng	98
51) Acenaphthene	10.99	154	56542	7.68	ng	100
54) Dibenzofuran	11.20	168	51416	4.52	ng	94
57) Fluorene	11.63	166	102870	11.32	ng	99
70) Phenanthrene	12.82	178	889039	58.04	ng	99
71) Anthracene	12.88	178	200703	13.20	ng	98
72) Carbazole	13.09	167	44269	3.06	ng	99
74) Fluoranthene	14.29	202	701573	41.93	ng	99
77) Pyrene	14.57	202	719561	43.32	ng	# 95
80) Benzo(a)anthracene	16.07	228	285500	17.94	ng	98
82) Chrysene	16.11	228	242528	16.23	ng	98
85) Indeno(1,2,3-cd)pyrene	19.26	276	116561	6.84	ng	95
87) Benzo(b)fluoranthene	17.40	252	354023	22.08	ng	# 97
88) Benzo(k)fluoranthene	17.40	252	344809	21.94	ng	98
89) Benzo(a)pyrene	17.78	252	207909	13.61	ng	99
90) Dibenzo(a,h)anthracene	19.28	278	29675	2.04	ng	94
91) Benzo(g,h,i)perylene	19.68	276	122689	8.35	ng	98

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

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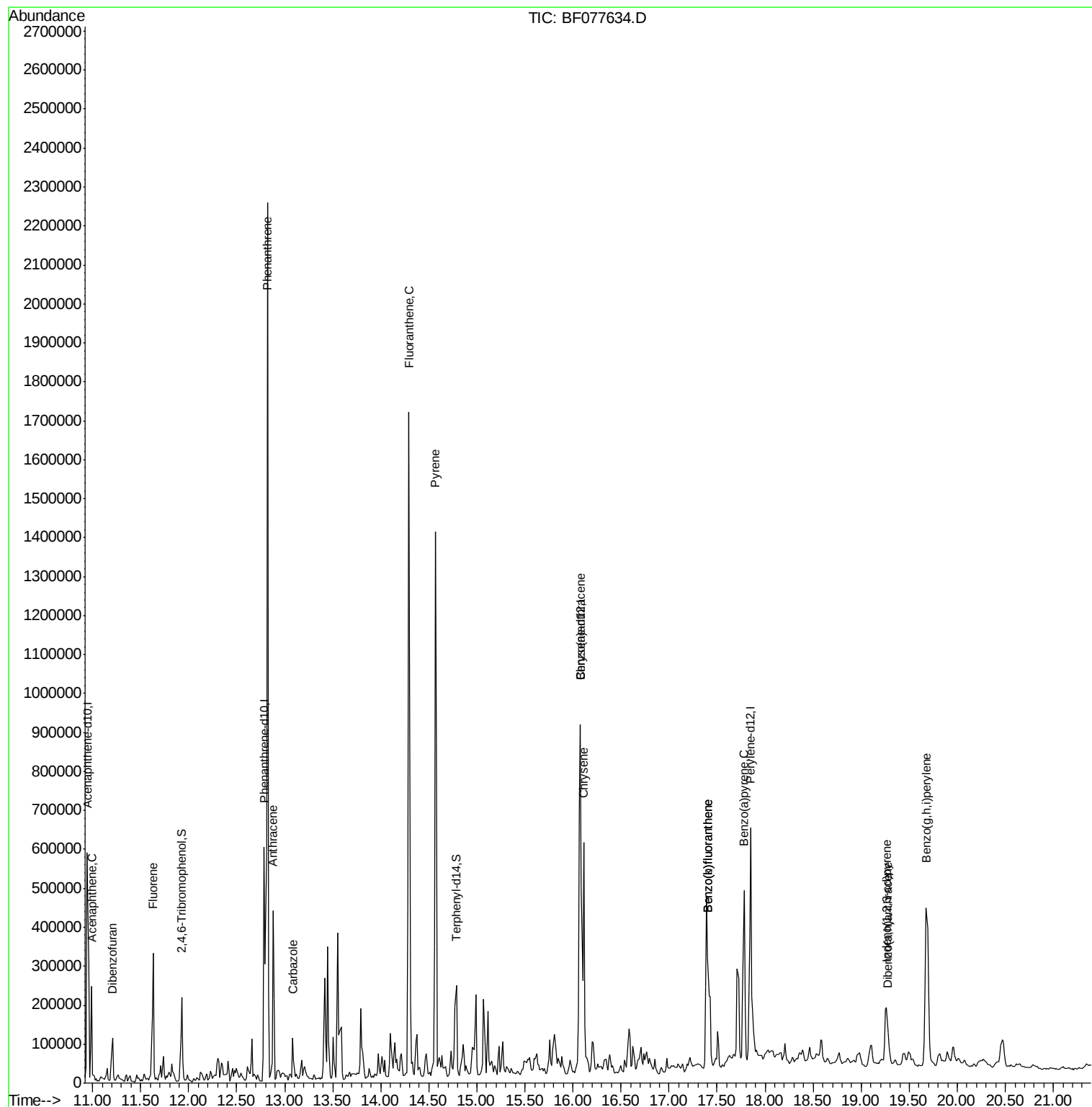
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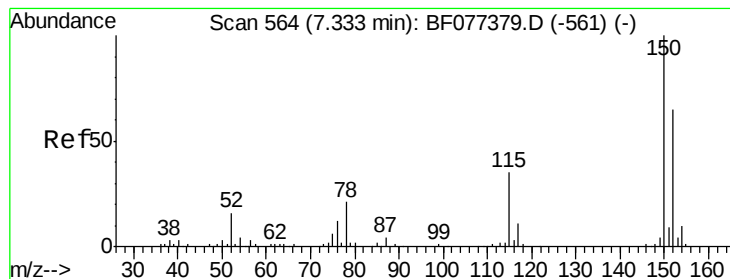


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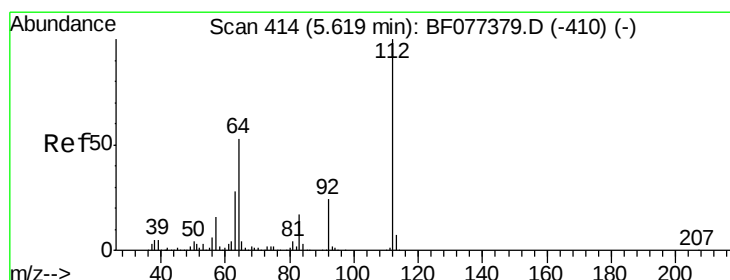
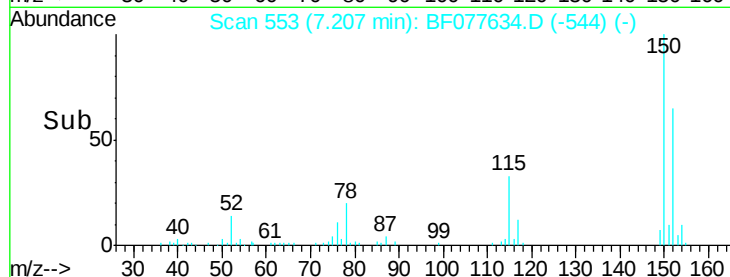
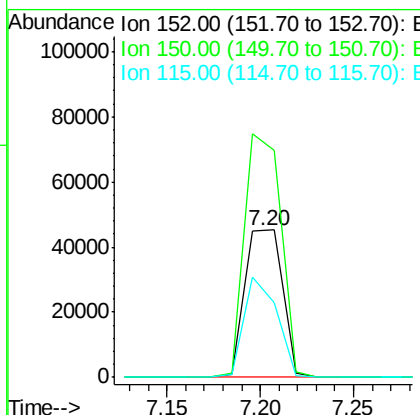
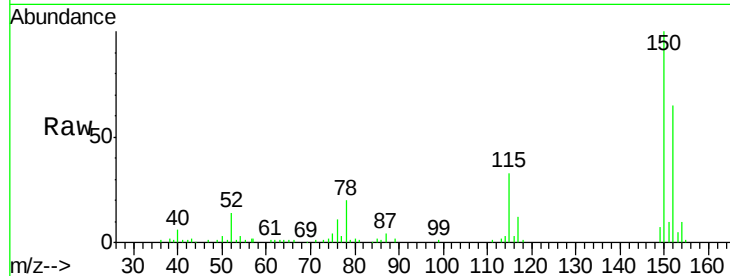




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.20 min Scan# 553
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

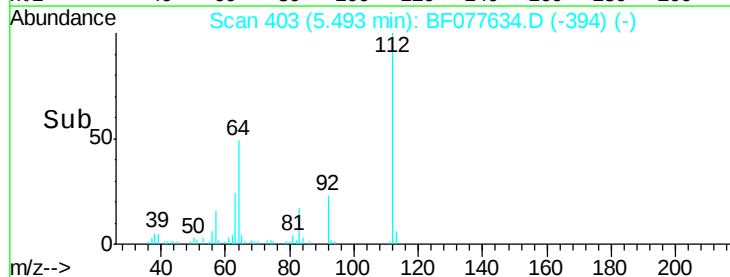
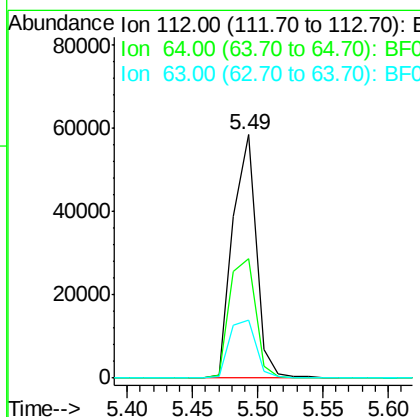
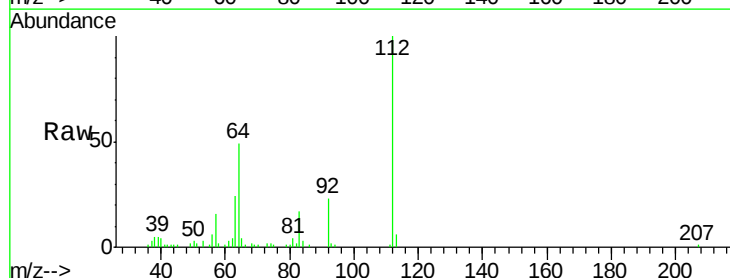
Instrument :
 BNA_F
 ClientSampleID :
 SEP-1DL

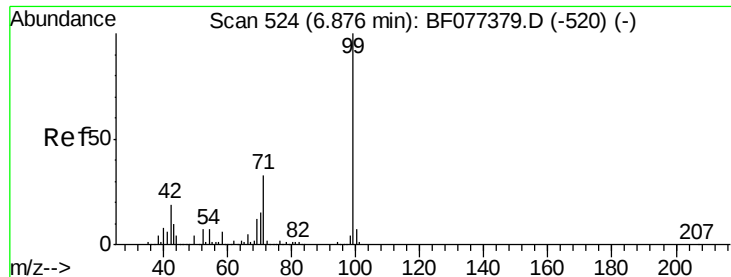
Tgt Ion:152 Resp: 63361
 Ion Ratio Lower Upper
 152 100
 150 153.7 124.0 186.0
 115 50.8 49.4 74.2



#5
 2-Fluorophenol
 Concen: 19.31 ng
 RT: 5.49 min Scan# 403
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

Tgt Ion:112 Resp: 73301
 Ion Ratio Lower Upper
 112 100
 64 49.2 48.5 72.7
 63 23.9 25.0 37.4#





#7

Phenol-d6

Concen: 20.32 ng

RT: 6.76 min Scan# 514

Delta R.T. -0.01 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

Instrument :

BNA_F

ClientSampleId :

SEP-1DL

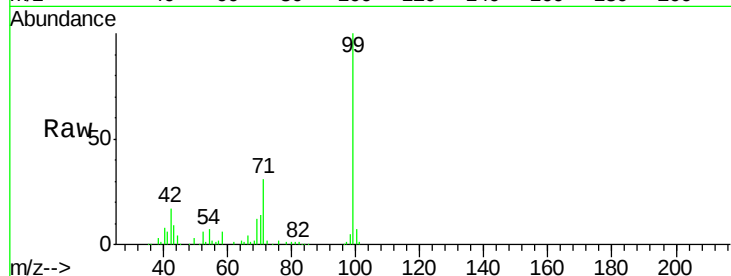
Tgt Ion: 99 Resp: 99164

Ion Ratio Lower Upper

99 100

42 16.6 16.2 24.4

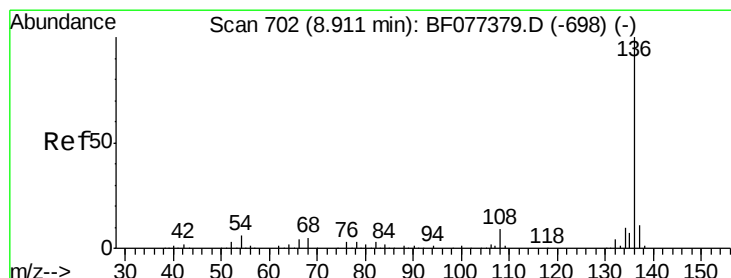
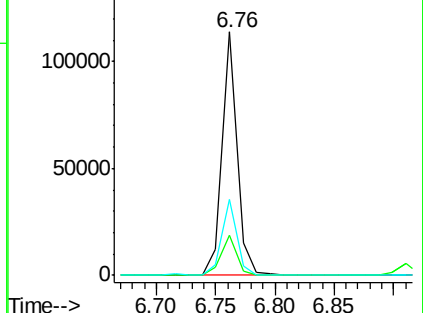
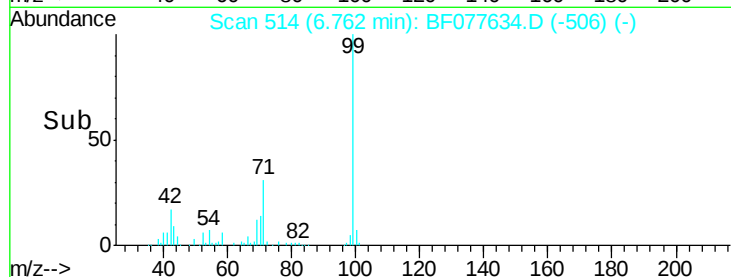
71 31.0 26.7 40.1



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: 8.78 min Scan# 690

Delta R.T. -0.00 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

Tgt Ion: 136 Resp: 261725

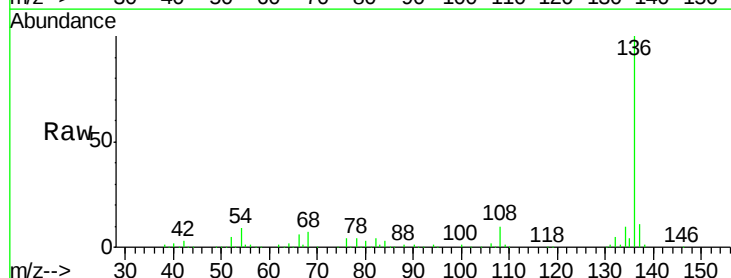
Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

54 9.1 6.2 9.4

68 7.4 5.0 7.6

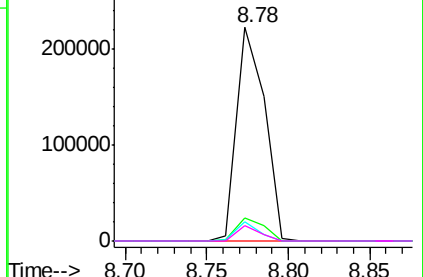
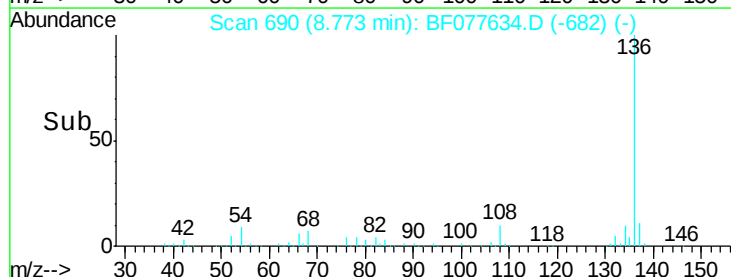


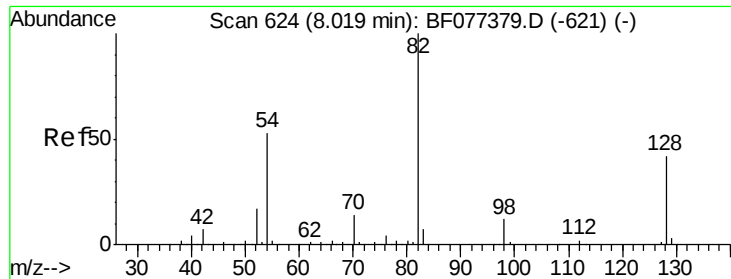
Abundance Ion 136.00 (135.70 to 136.70): E

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

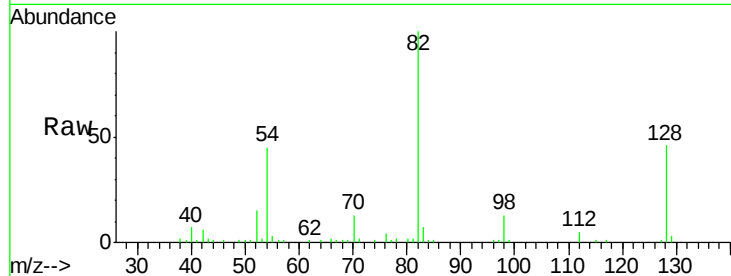




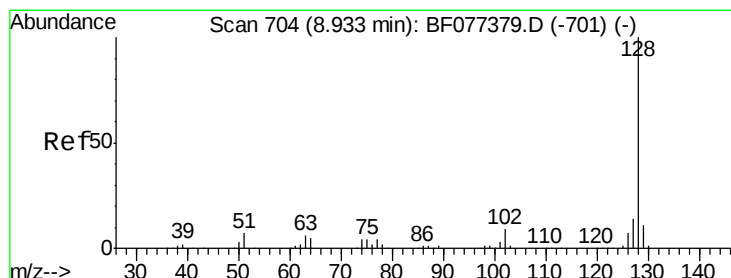
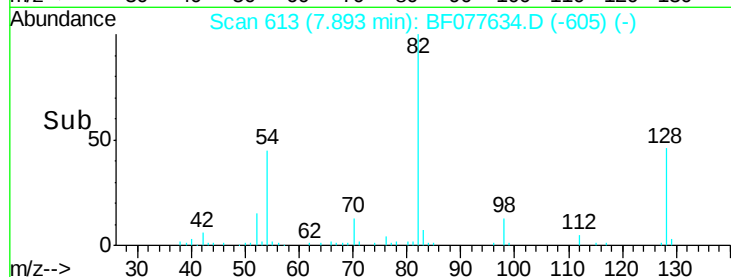
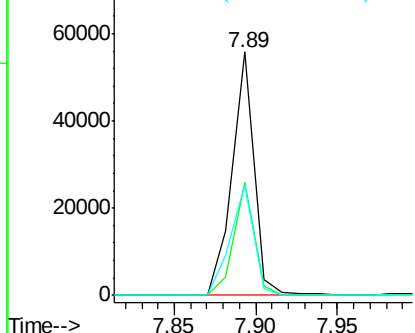
#23
Nitrobenzene-d5
Concen: 12.32 ng
RT: 7.89 min Scan# 613
Delta R.T. -0.00 min
Lab File: BF077634.D
Acq: 6 Mar 2015 21:02

Instrument :
BNA_F
ClientSampleId :
SEP-1DL

Tgt Ion: 82 Resp: 51864
Ion Ratio Lower Upper
82 100
128 46.3 43.8 65.8
54 45.1 36.7 55.1

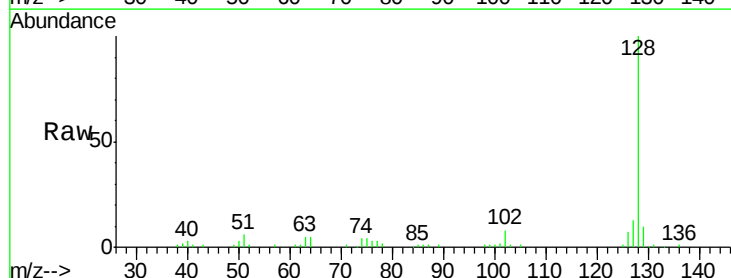


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

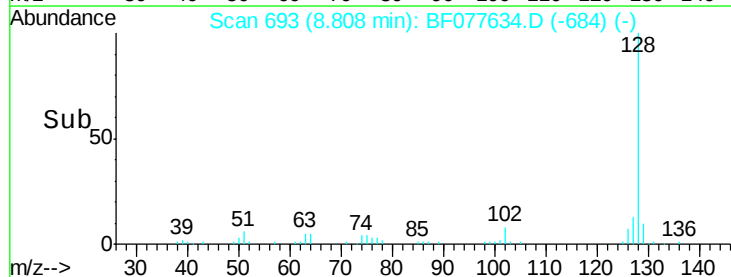
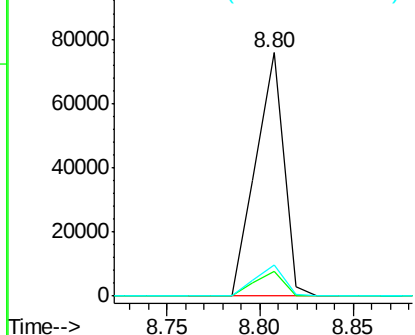


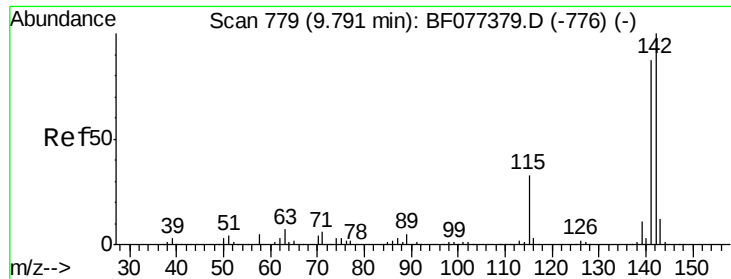
#31
Naphthalene
Concen: 6.06 ng
RT: 8.80 min Scan# 693
Delta R.T. -0.00 min
Lab File: BF077634.D
Acq: 6 Mar 2015 21:02

Tgt Ion: 128 Resp: 79353
Ion Ratio Lower Upper
128 100
129 10.0 9.4 14.0
127 12.7 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

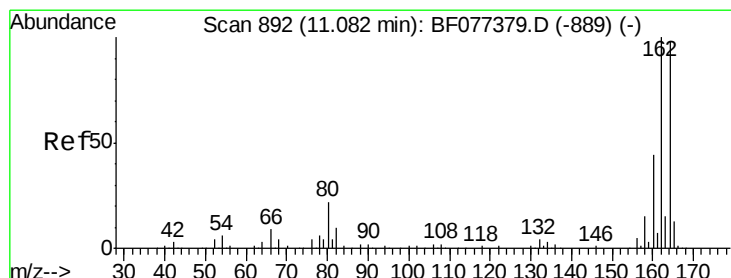
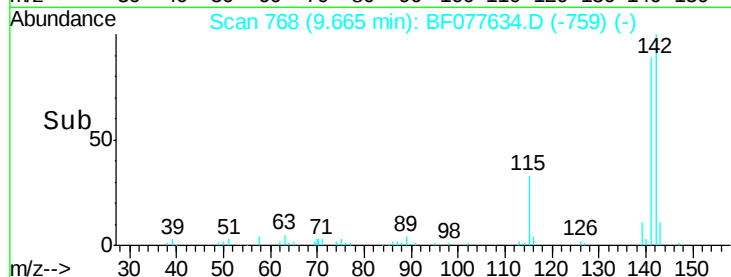
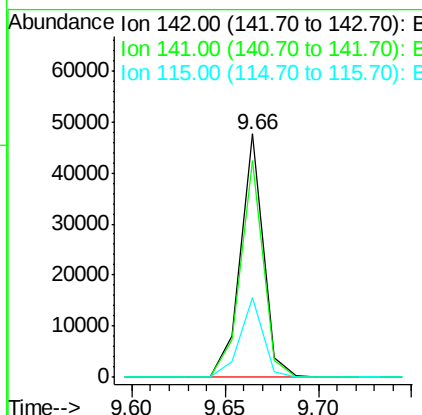
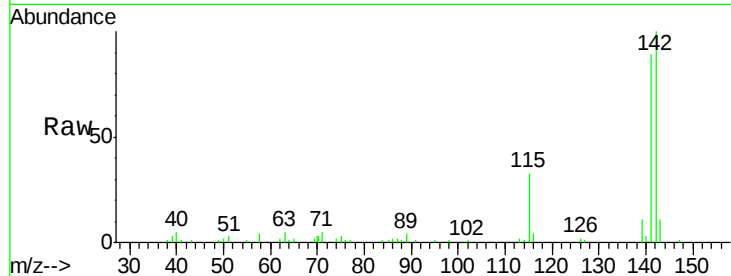




#37
 2-Methylnaphthalene
 Concen: 4.43 ng
 RT: 9.66 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

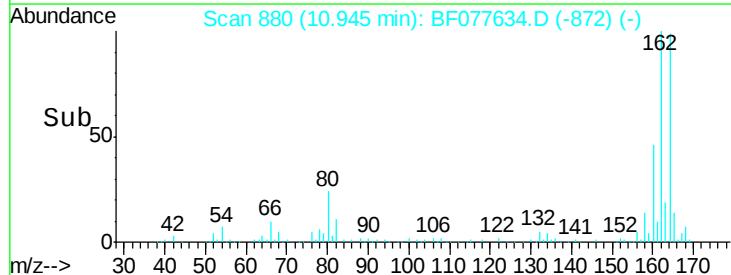
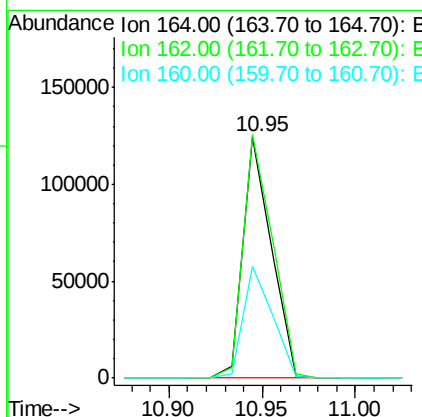
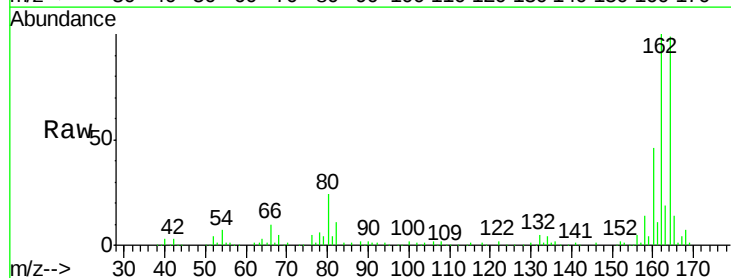
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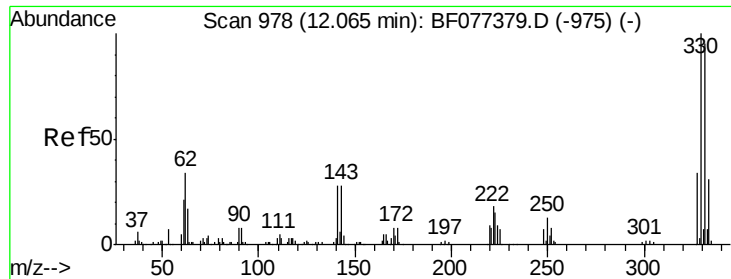
Tgt Ion:142 Resp: 41200
 Ion Ratio Lower Upper
 142 100
 141 89.1 70.7 106.1
 115 32.5 24.2 36.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.95 min Scan# 880
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

Tgt Ion:164 Resp: 131133
 Ion Ratio Lower Upper
 164 100
 162 100.8 83.2 124.8
 160 46.4 34.6 52.0

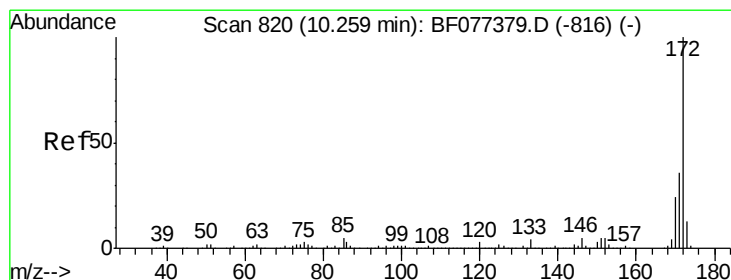
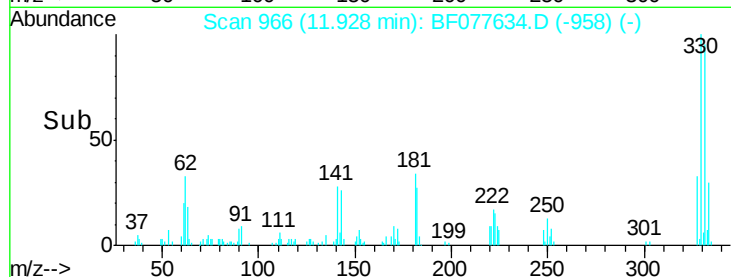
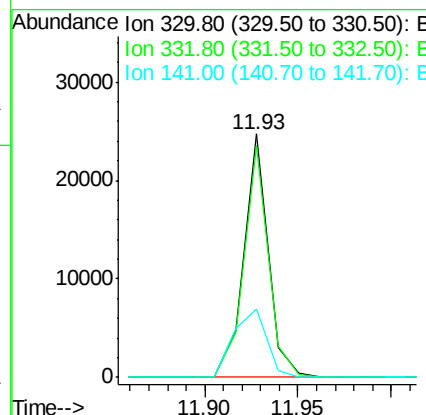
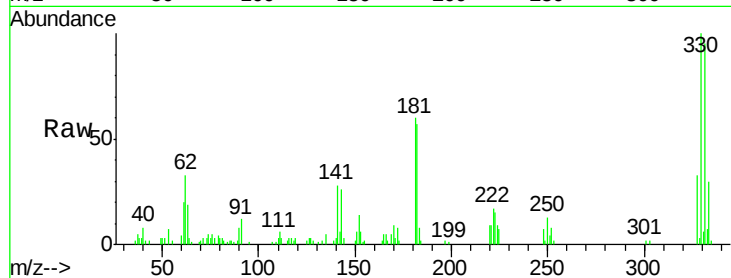




#41
 2,4,6-Tribromophenol
 Concen: 17.96 ng
 RT: 11.93 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

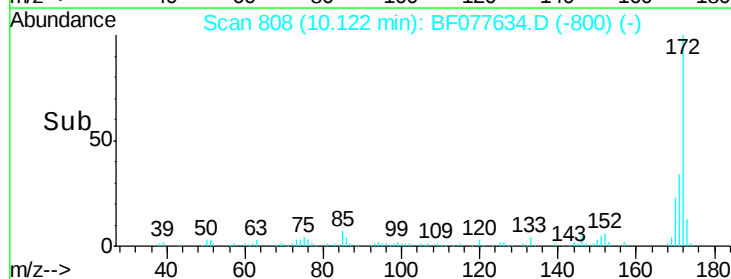
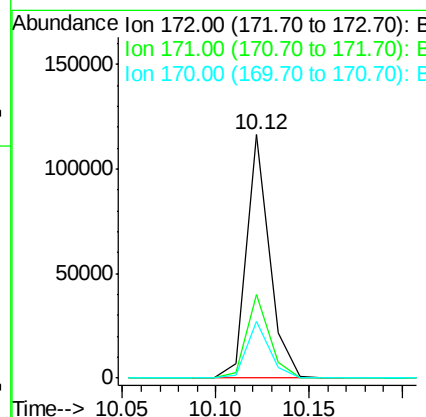
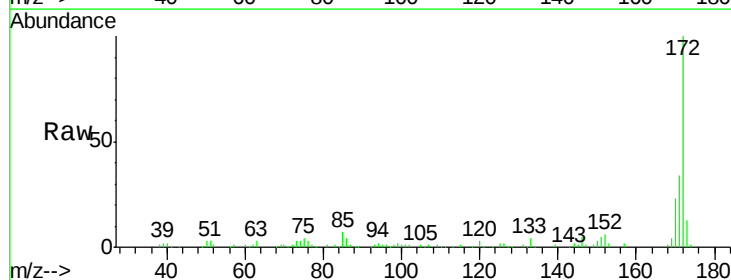
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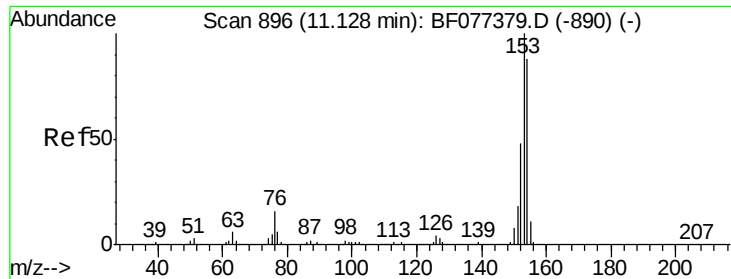
Tgt Ion:330 Resp: 22680
 Ion Ratio Lower Upper
 330 100
 332 95.9 77.4 116.2
 141 38.4 28.8 43.2



#44
 2-Fluorobiphenyl
 Concen: 11.89 ng
 RT: 10.12 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

Tgt Ion:172 Resp: 99976
 Ion Ratio Lower Upper
 172 100
 171 34.2 28.9 43.3
 170 23.3 19.4 29.2





#51

Acenaphthene

Concen: 7.68 ng

RT: 10.99 min Scan# 884

Delta R.T. -0.00 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

Instrument :

BNA_F

ClientSampleId :

SEP-1DL

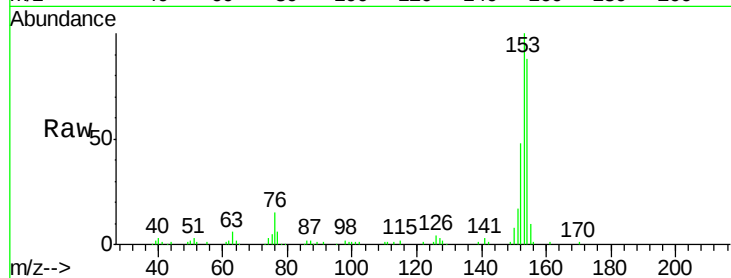
Tgt Ion:154 Resp: 56542

Ion Ratio Lower Upper

154 100

153 113.3 90.5 135.7

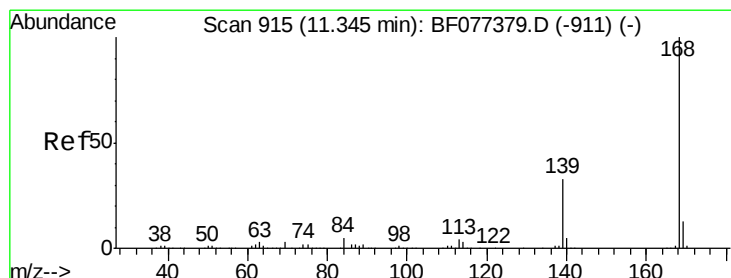
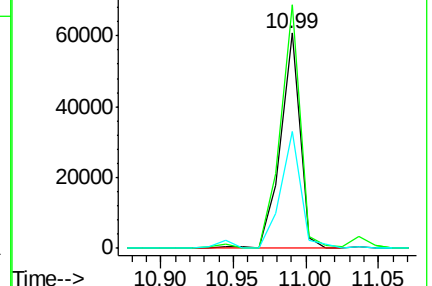
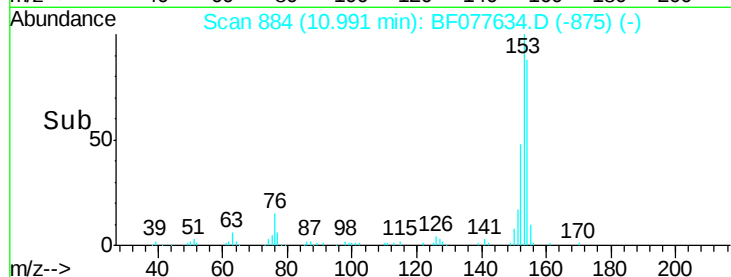
152 54.2 43.5 65.3



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: 4.52 ng

RT: 11.20 min Scan# 903

Delta R.T. -0.00 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

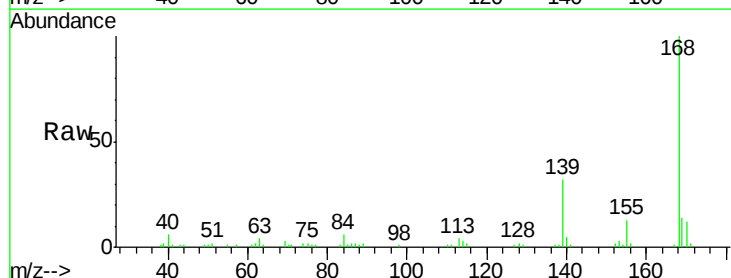
Tgt Ion:168 Resp: 51416

Ion Ratio Lower Upper

168 100

139 31.9 29.3 43.9

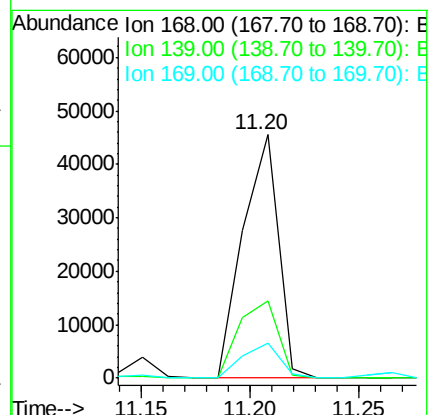
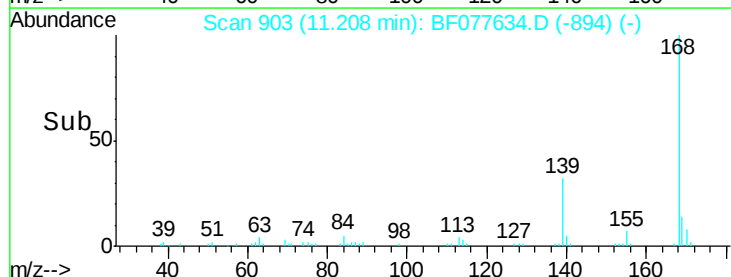
169 14.4 10.9 16.3

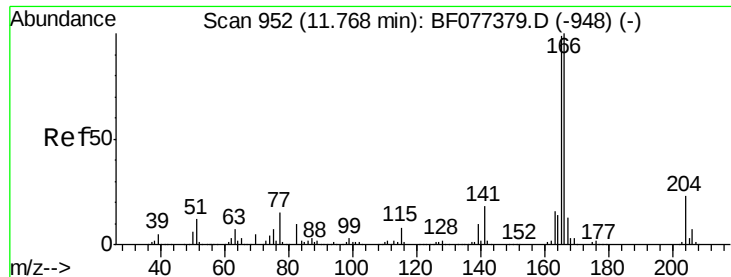


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

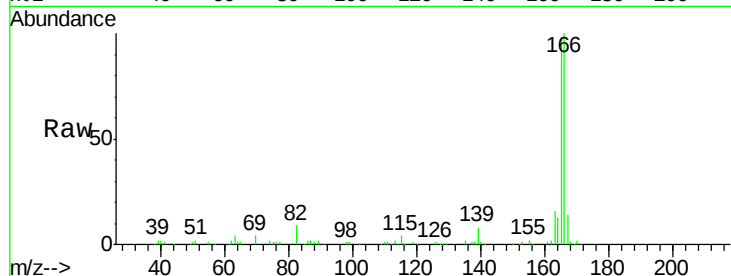




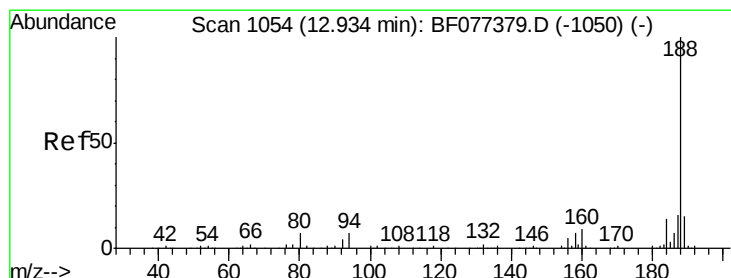
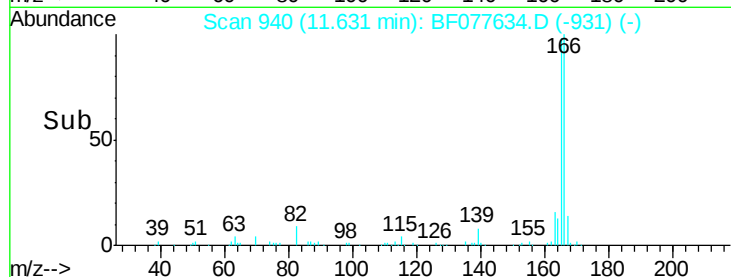
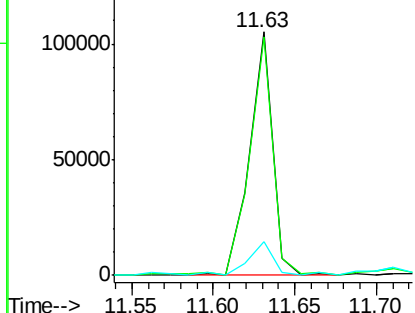
#57
Fluorene
 Concen: 11.32 ng
 RT: 11.63 min Scan# 940
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

Instrument :
 BNA_F
 ClientSampleId :
 SEP-1DL

Tgt Ion:166 Resp: 102870
 Ion Ratio Lower Upper
 166 100
 165 98.0 77.6 116.4
 167 13.6 10.6 16.0

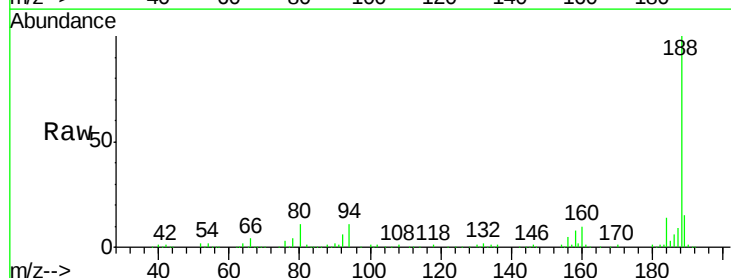


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

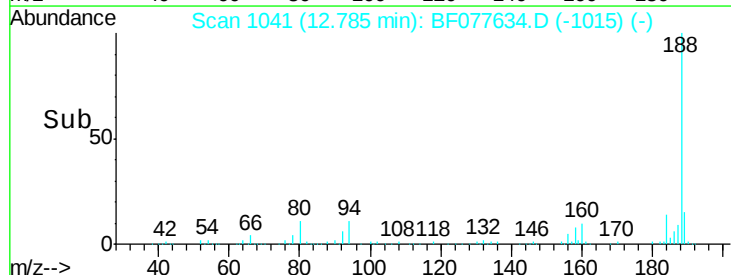
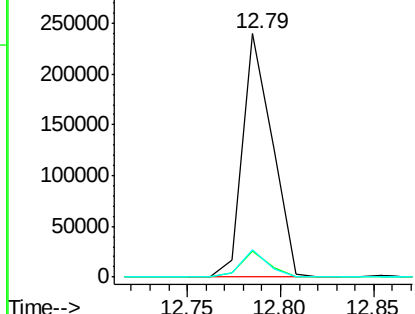


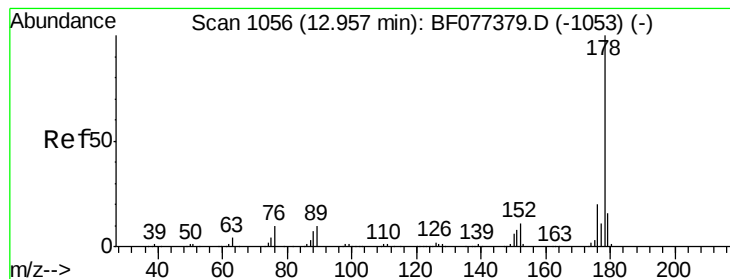
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.79 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

Tgt Ion:188 Resp: 264297
 Ion Ratio Lower Upper
 188 100
 94 10.8 7.4 11.2
 80 11.2 8.0 12.0



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: 58.04 ng

RT: 12.82 min Scan# 1044

Delta R.T. -0.00 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

Instrument :

BNA_F

ClientSampleId :

SEP-1DL

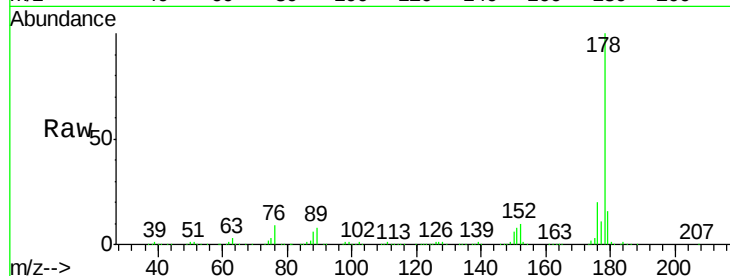
Tgt Ion:178 Resp: 889039

Ion Ratio Lower Upper

178 100

176 19.6 15.5 23.3

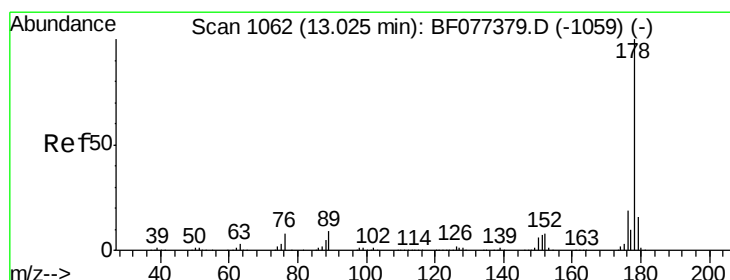
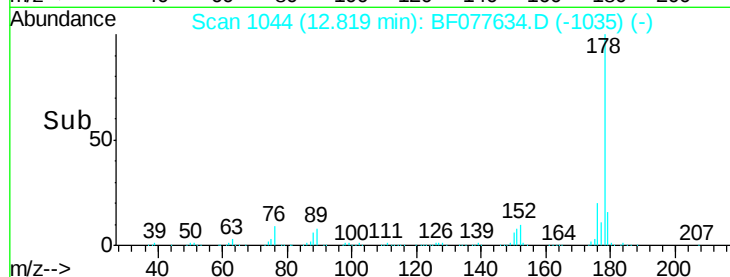
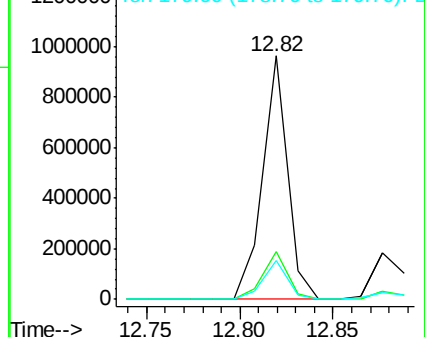
179 15.8 12.2 18.2



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: 13.20 ng

RT: 12.88 min Scan# 1049

Delta R.T. -0.00 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

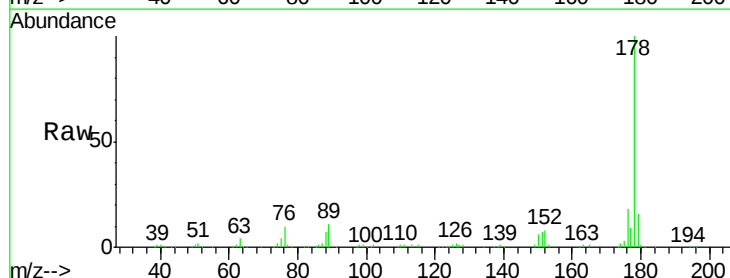
Tgt Ion:178 Resp: 200703

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.0

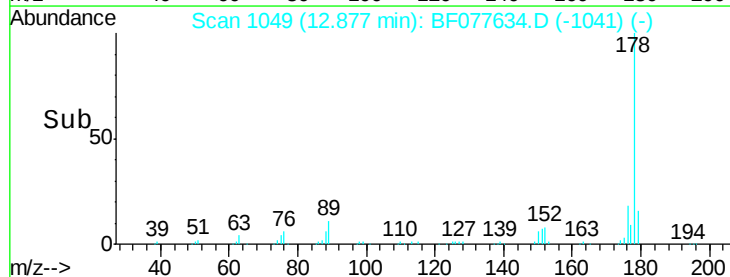
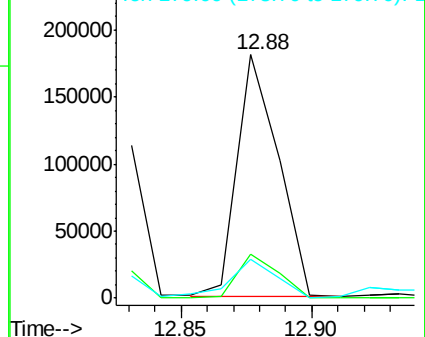
179 15.8 12.9 19.3

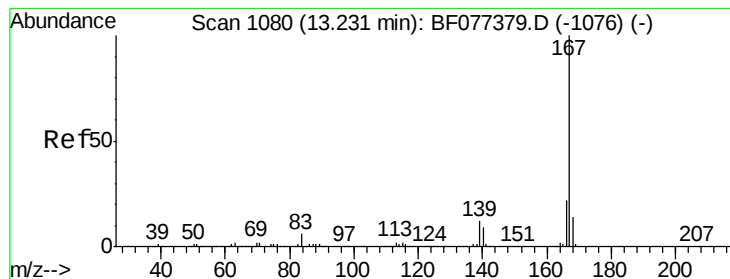


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.06 ng

RT: 13.09 min Scan# 1067

Delta R.T. -0.00 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

Instrument :

BNA_F

ClientSampled :

SEP-1DL

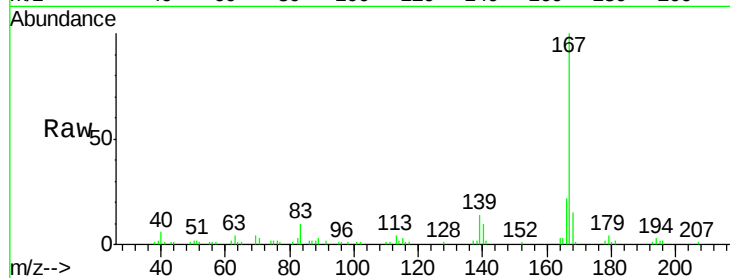
Tgt Ion:167 Resp: 44269

Ion Ratio Lower Upper

167 100

166 22.2 17.6 26.4

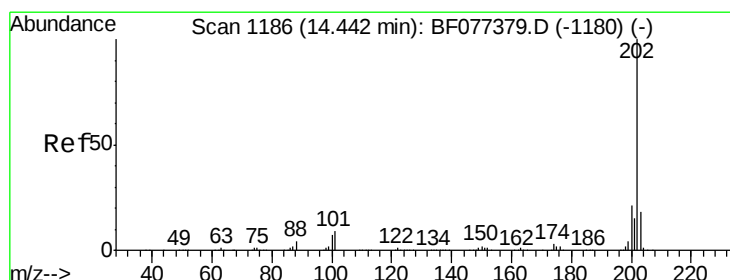
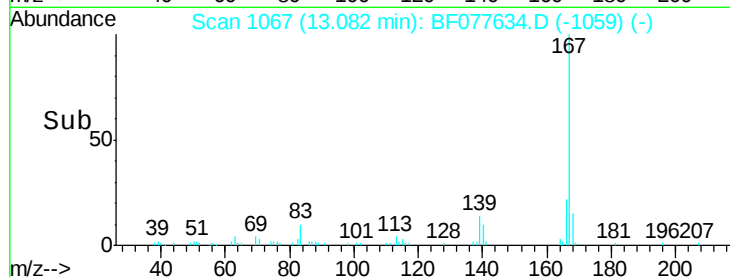
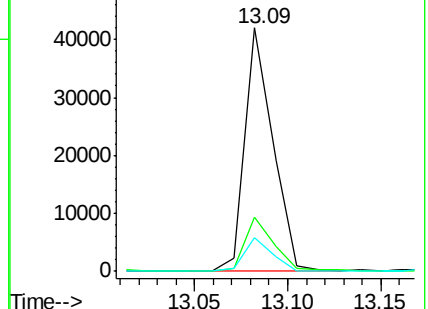
139 13.6 9.9 14.9



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: 41.93 ng

RT: 14.29 min Scan# 1173

Delta R.T. -0.00 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

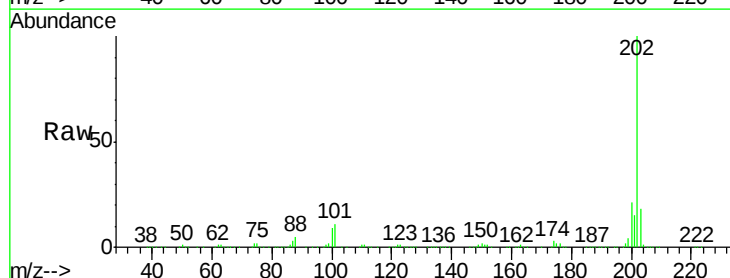
Tgt Ion:202 Resp: 701573

Ion Ratio Lower Upper

202 100

101 11.4 0.0 30.8

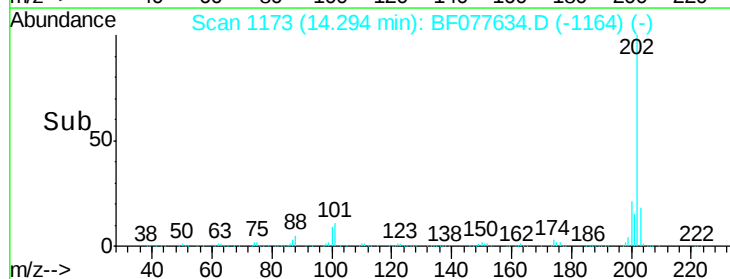
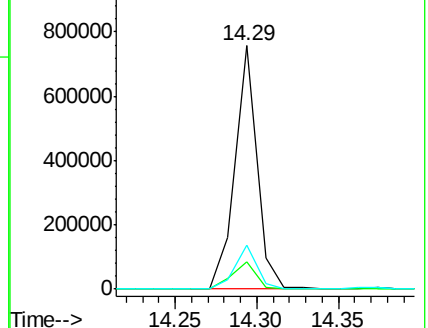
203 18.0 0.0 37.7

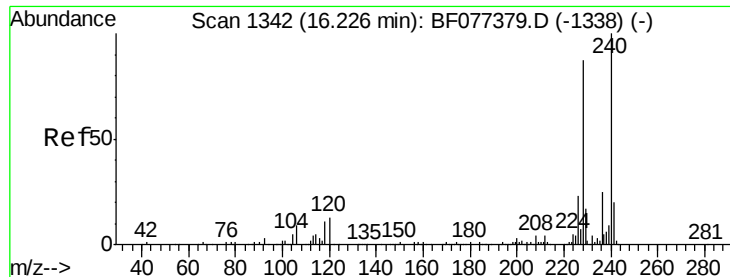


Abundance Ion 202.00 (201.70 to 202.70): E

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: 16.08 min Scan# 1329

Delta R.T. 0.01 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

Instrument :

BNA_F

ClientSampleId :

SEP-1DL

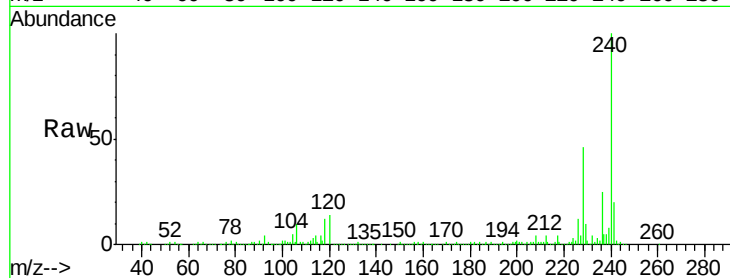
Tgt Ion:240 Resp: 271521

Ion Ratio Lower Upper

240 100

120 14.2 8.8 13.2#

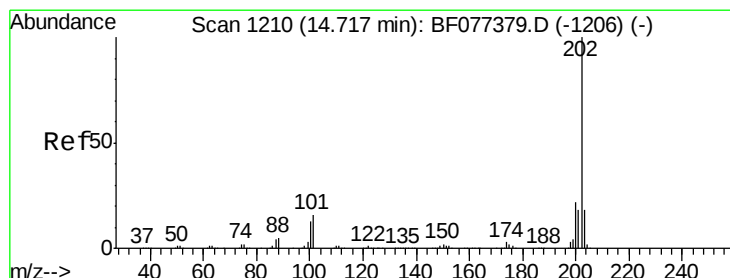
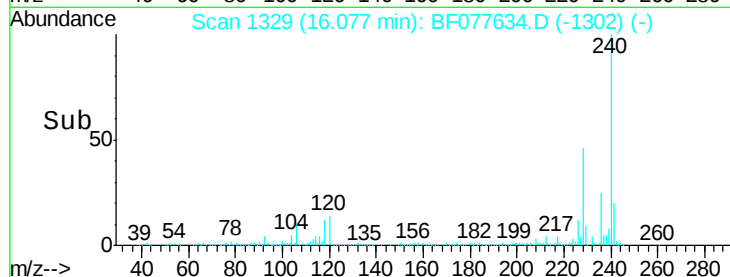
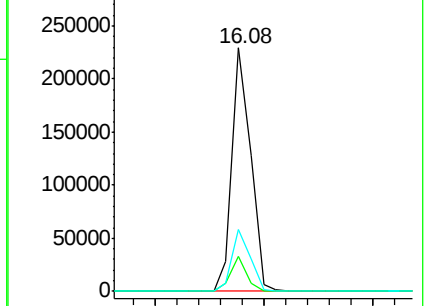
236 25.5 20.7 31.1



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: 43.32 ng

RT: 14.57 min Scan# 1197

Delta R.T. -0.00 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

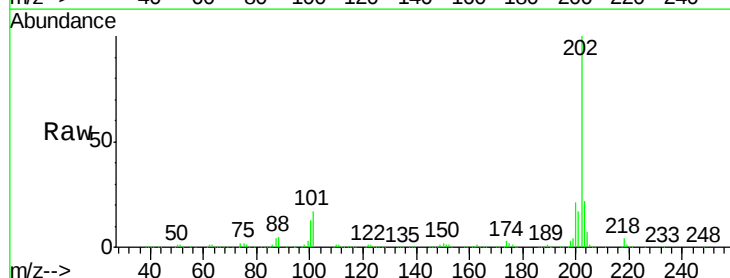
Tgt Ion:202 Resp: 719561

Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

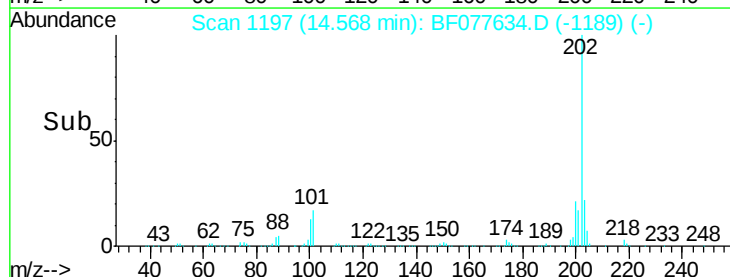
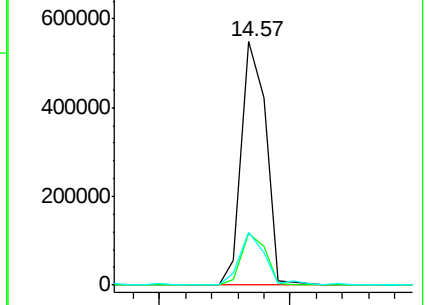
203 22.0 14.2 21.2#

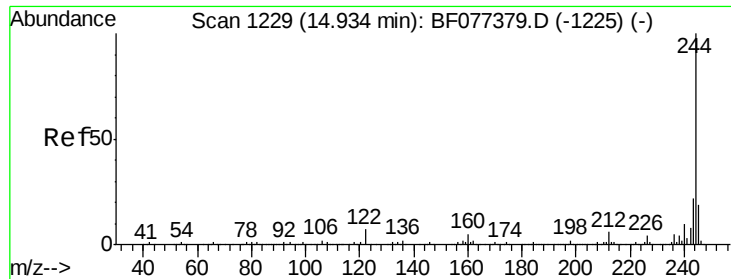


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

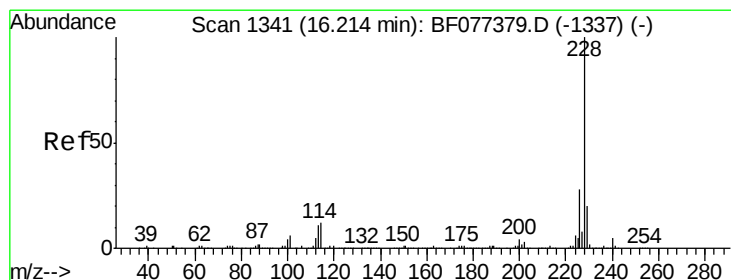
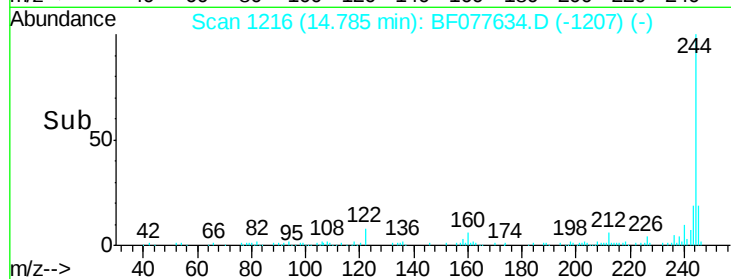
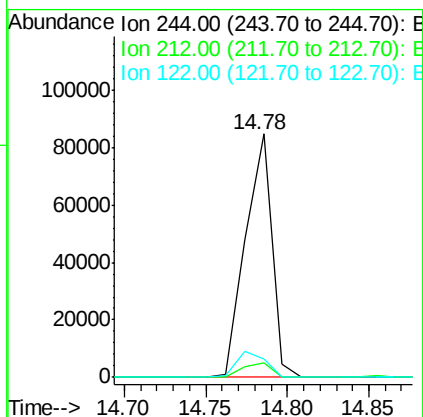
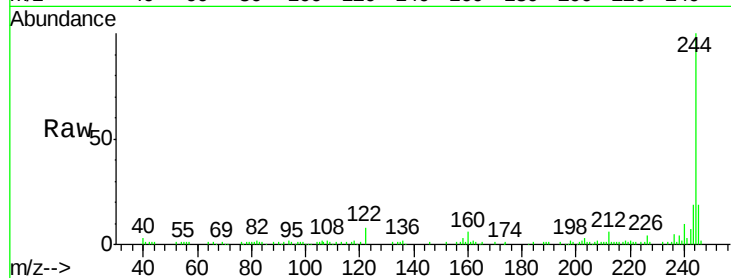




#78
 Terphenyl-d14
 Concen: 8.18 ng
 RT: 14.78 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

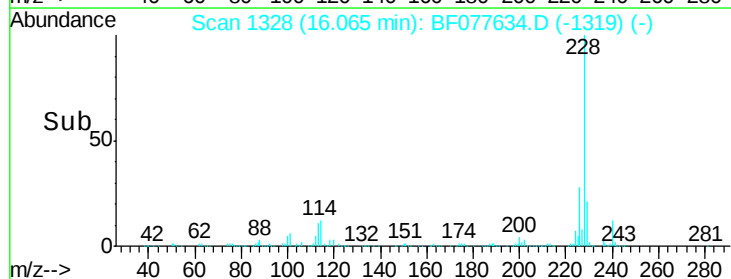
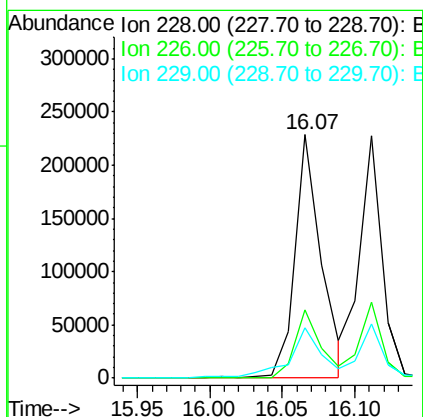
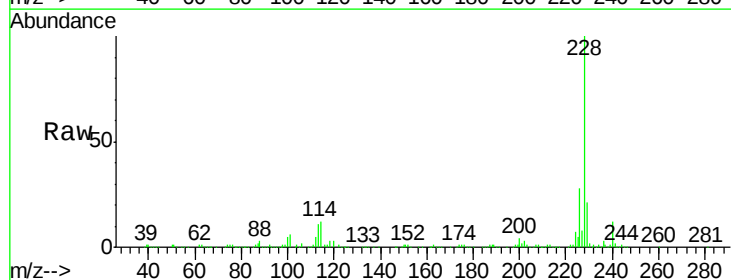
Instrument :
 BNA_F
 ClientSampled :
 SEP-1DL

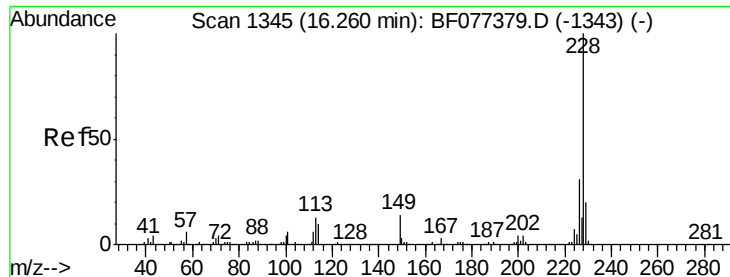
Tgt Ion:244 Resp: 95008
 Ion Ratio Lower Upper
 244 100
 212 6.0 5.2 7.8
 122 7.7 7.8 11.8#



#80
 Benzo(a)anthracene
 Concen: 17.94 ng
 RT: 16.07 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: BF077634.D
 Acq: 6 Mar 2015 21:02

Tgt Ion:228 Resp: 285500
 Ion Ratio Lower Upper
 228 100
 226 28.2 22.0 33.0
 229 20.8 15.8 23.8





#82

Chrysene

Concen: 16.23 ng

RT: 16.11 min Scan# 1332

Delta R.T. 0.01 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

Instrument :

BNA_F

ClientSampleId :

SEP-1DL

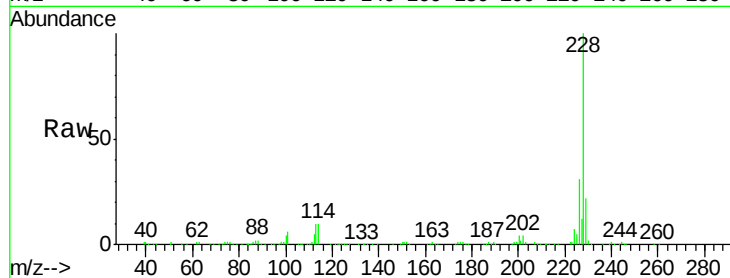
Tgt Ion:228 Resp: 242528

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

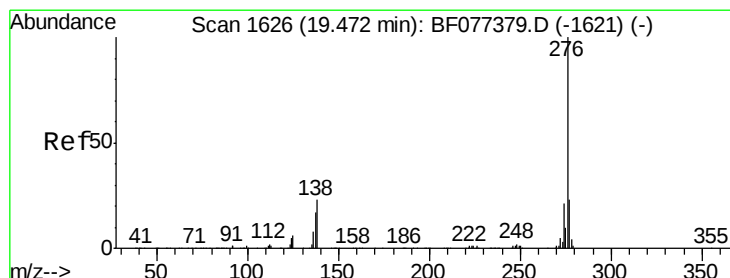
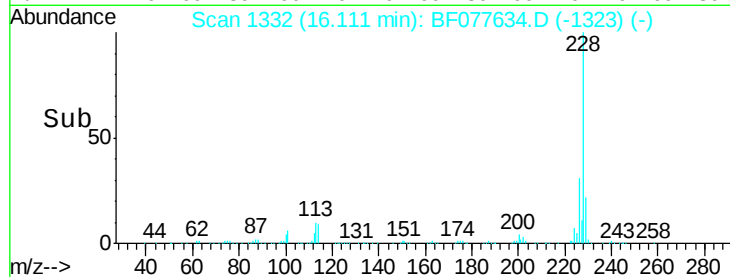
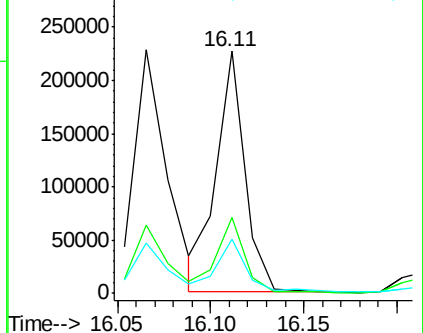
229 22.4 16.4 24.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.84 ng

RT: 19.26 min Scan# 1608

Delta R.T. 0.09 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

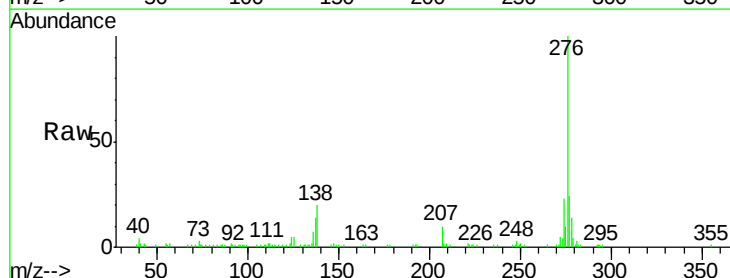
Tgt Ion:276 Resp: 116561

Ion Ratio Lower Upper

276 100

138 24.1 21.2 31.8

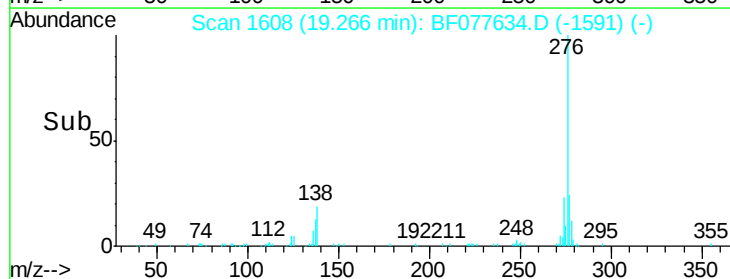
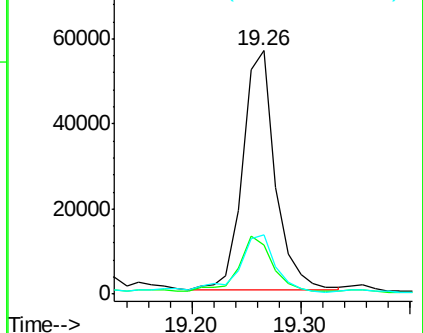
277 27.9 20.0 30.0

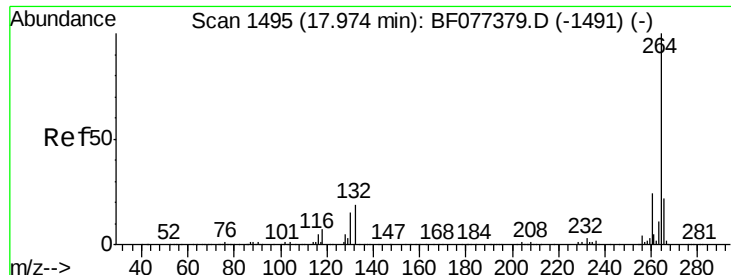


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

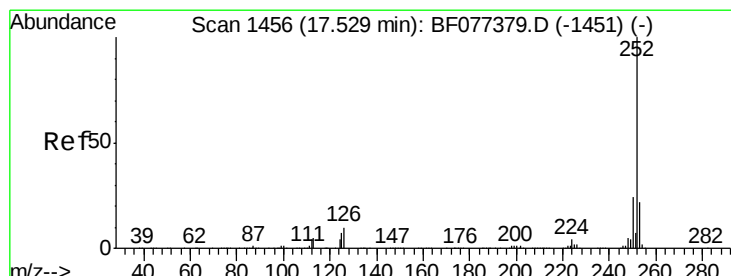
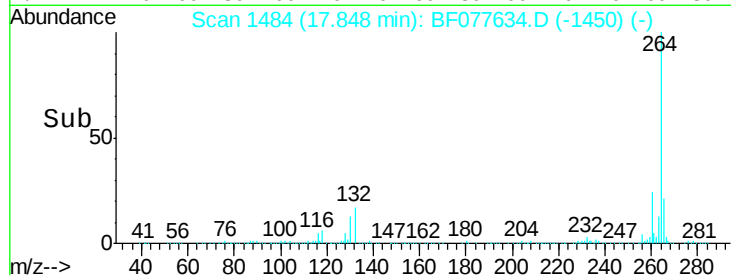
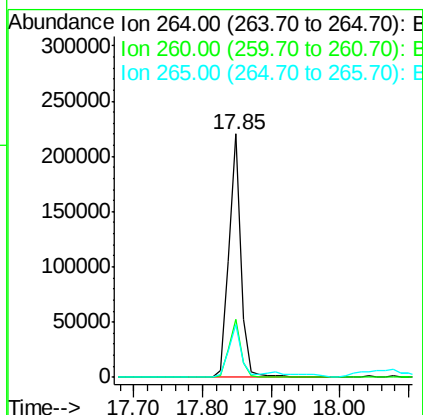
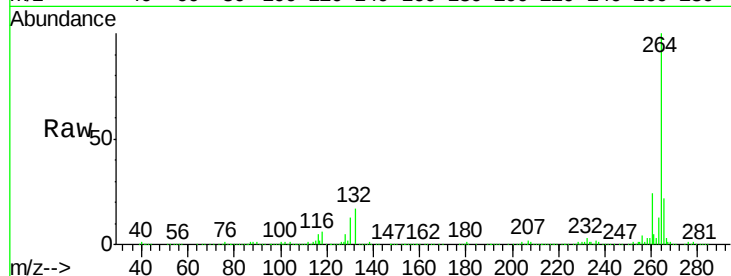




#86
Perylene-d12
Concen: 20.00 ng
RT: 17.85 min Scan# 1484
Delta R.T. 0.09 min
Lab File: BF077634.D
Acq: 6 Mar 2015 21:02

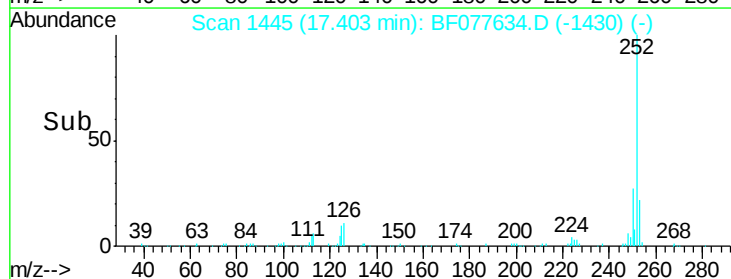
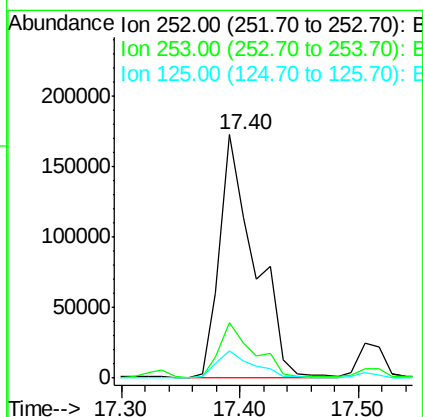
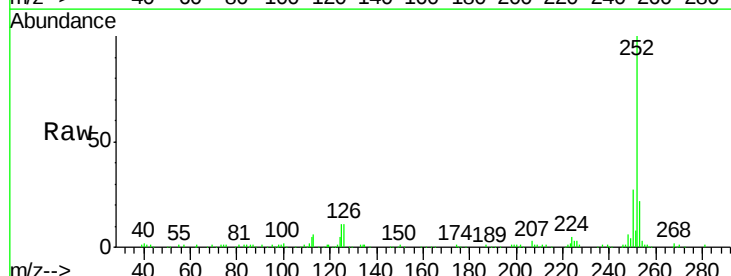
Instrument :
BNA_F
ClientSampleId :
SEP-1DL

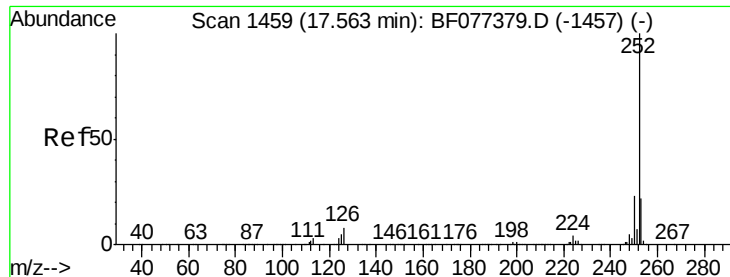
Tgt Ion: 264 Resp: 275766
Ion Ratio Lower Upper
264 100
260 23.9 19.3 28.9
265 21.6 16.8 25.2



#87
Benzo(b)fluoranthene
Concen: 22.08 ng
RT: 17.40 min Scan# 1445
Delta R.T. 0.07 min
Lab File: BF077634.D
Acq: 6 Mar 2015 21:02

Tgt Ion: 252 Resp: 354023
Ion Ratio Lower Upper
252 100
253 22.1 17.6 26.4
125 10.6 5.4 8.2#





#88

Benzo(k)fluoranthene

Concen: 21.94 ng

RT: 17.40 min Scan# 1445

Delta R.T. 0.05 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

Instrument :

BNA_F

ClientSampleId :

SEP-1DL

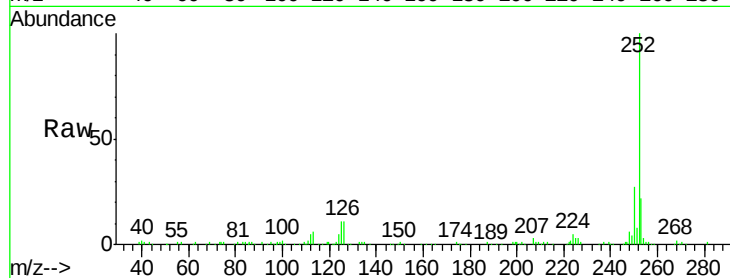
Tgt Ion:252 Resp: 344809

Ion Ratio Lower Upper

252 100

253 22.1 18.1 27.1

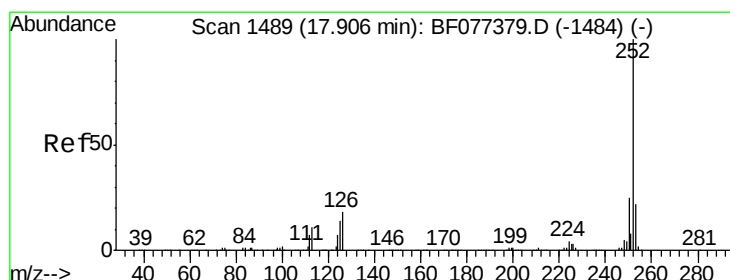
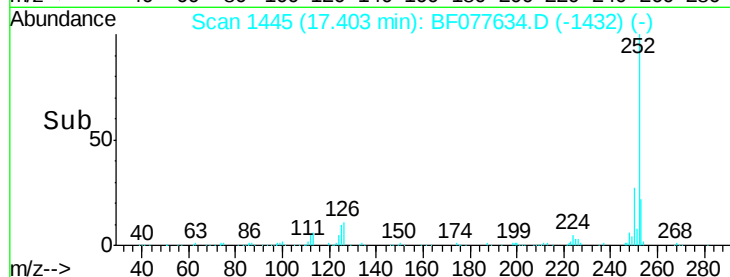
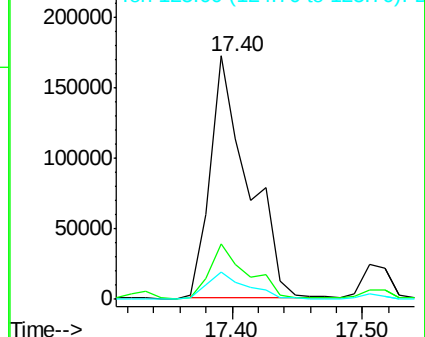
125 10.6 10.1 15.1



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 13.61 ng

RT: 17.78 min Scan# 1478

Delta R.T. 0.09 min

Lab File: BF077634.D

Acq: 6 Mar 2015 21:02

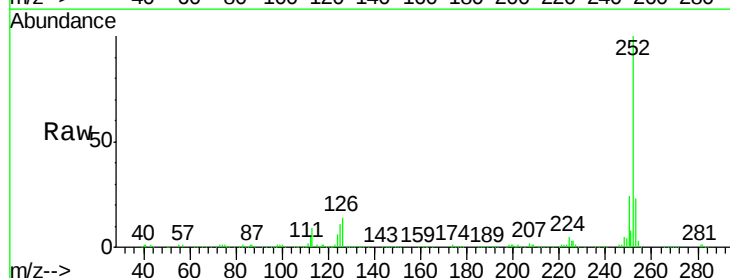
Tgt Ion:252 Resp: 207909

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

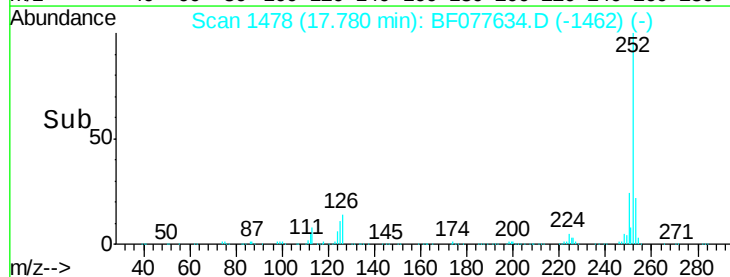
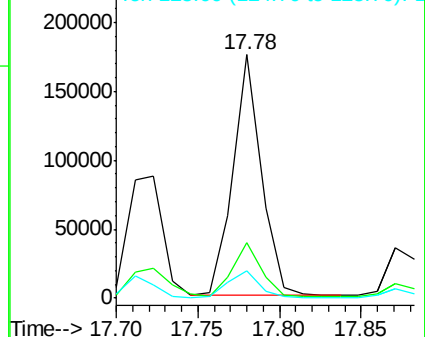
125 11.2 8.3 12.5

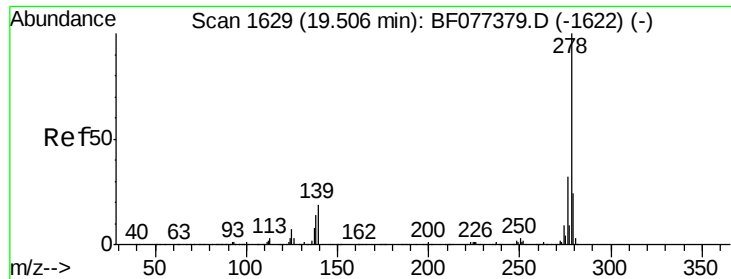


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



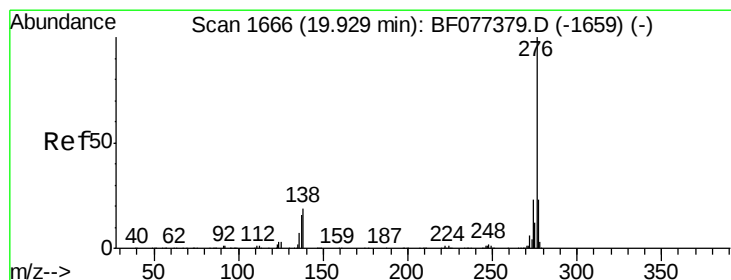
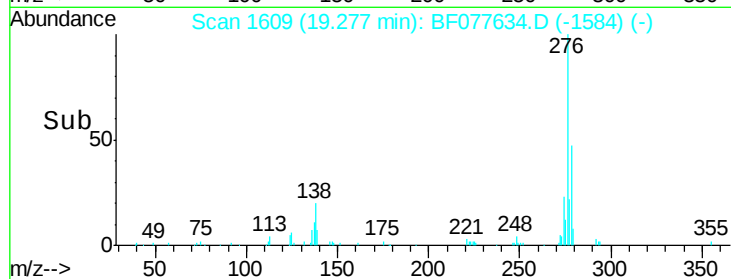
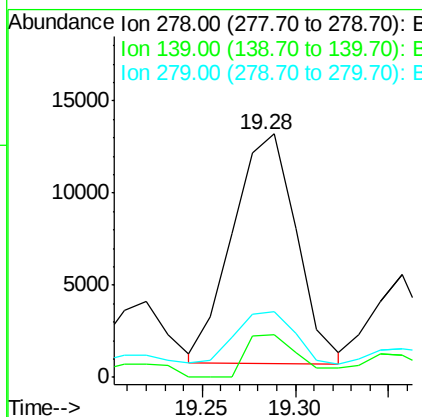
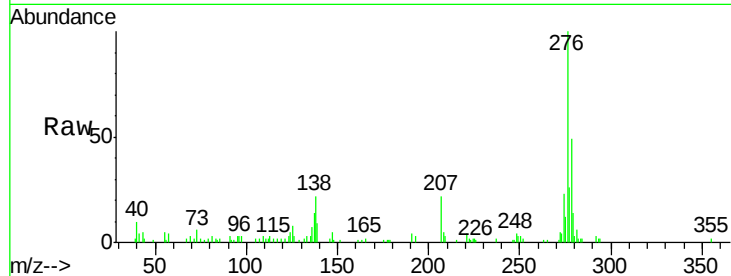


#90
Dibenzo(a,h)anthracene
Concen: 2.04 ng
RT: 19.28 min Scan# 1609
Delta R.T. 0.09 min
Lab File: BF077634.D
Acq: 6 Mar 2015 21:02

Instrument :
BNA_F
ClientSampleId :
SEP-1DL

Tgt Ion: 278 Resp: 29675

Ion	Ratio	Lower	Upper
278	100		
139	18.6	14.3	21.5
279	28.0	19.0	28.6



#91
Benzo(g,h,i)perylene
Concen: 8.35 ng
RT: 19.68 min Scan# 1644
Delta R.T. 0.09 min
Lab File: BF077634.D
Acq: 6 Mar 2015 21:02

Tgt Ion: 276 Resp: 122689

Ion	Ratio	Lower	Upper
276	100		
277	22.8	18.9	28.3
138	24.2	20.5	30.7

