

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021115\
 Data File : BF077274.D
 Acq On : 12 Feb 2015 6:42
 Operator : TP/IZ
 Sample : G1254-03DL 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Quant Time: Feb 12 11:35:52 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 10 13:30:38 2015
 Response via : Initial Calibration

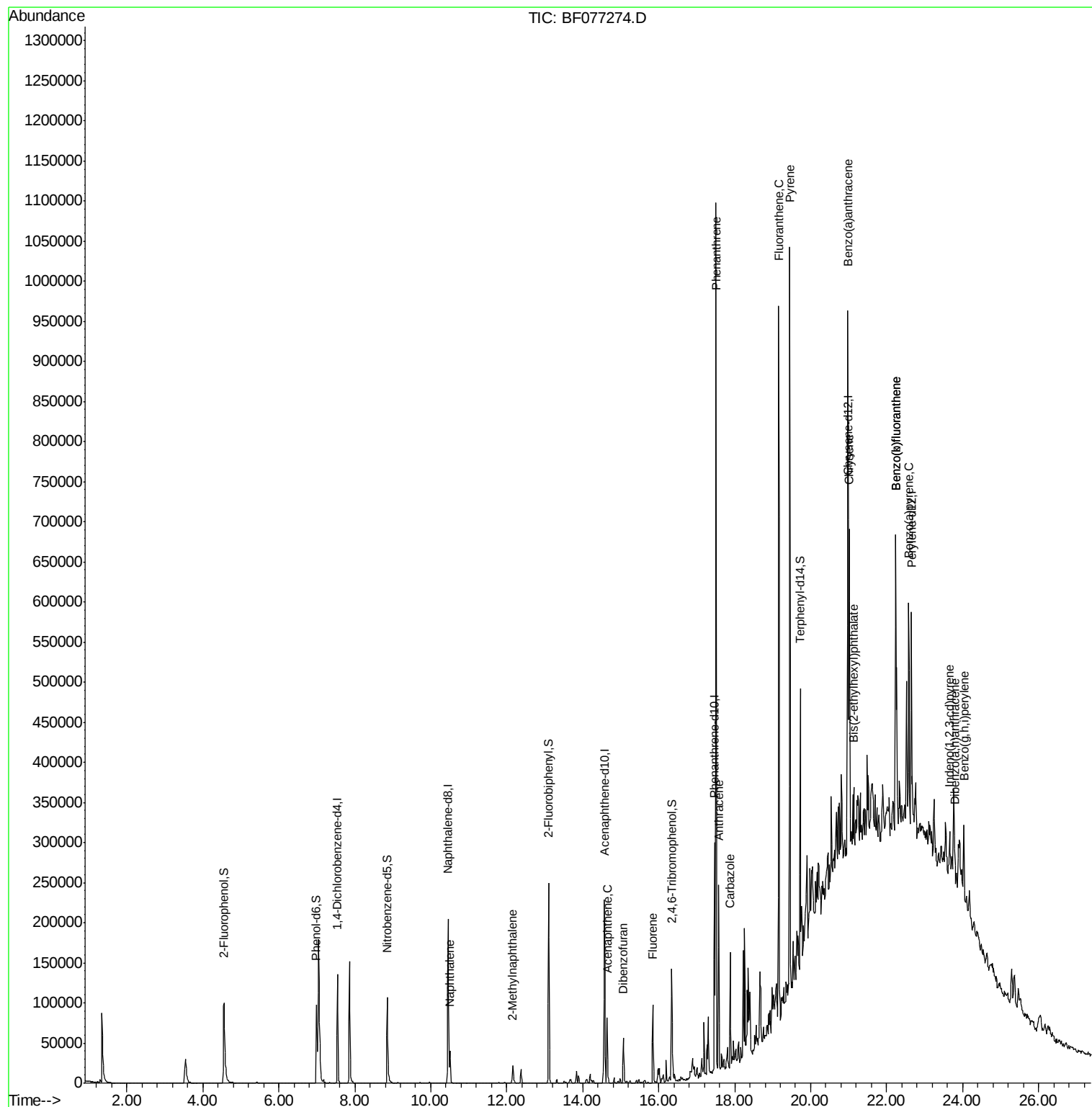
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.54	152	38030	20.00	ng	-0.06
21) Naphthalene-d8	10.45	136	164800	20.00	ng	-0.05
38) Acenaphthene-d10	14.57	164	86214	20.00	ng	-0.06
63) Phenanthrene-d10	17.47	188	132384	20.00	ng	-0.03
75) Chrysene-d12	20.99	240	120893	20.00	ng	-0.02
86) Perylene-d12	22.65	264	120441	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.56	112	82406	35.63	ng	-0.03
7) Phenol-d6	6.99	99	102153	35.01	ng	-0.02
23) Nitrobenzene-d5	8.85	82	65591	22.05	ng	-0.05
41) 2,4,6-Tribromophenol	16.34	330	19936	28.49	ng	-0.03
44) 2-Fluorobiphenyl	13.11	172	141252	24.93	ng	-0.06
78) Terphenyl-d14	19.72	244	118884	22.64	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	10.50	128	36992	4.36	ng	98
37) 2-Methylnaphthalene	12.16	142	15143	2.61	ng	91
51) Acenaphthene	14.65	154	37572	7.46	ng	94
54) Dibenzofuran	15.07	168	43927	5.99	ng	94
57) Fluorene	15.85	166	44193	7.11	ng	92
70) Phenanthrene	17.51	178	512678	62.10	ng	100
71) Anthracene	17.59	178	124233	15.43	ng	99
72) Carbazole	17.88	167	69042	8.84	ng	99
74) Fluoranthene	19.16	202	506091	59.83	ng	99
77) Pyrene	19.45	202	398491	48.10	ng	# 94
80) Benzo(a)anthracene	20.98	228	226321	29.84	ng	99
82) Chrysene	21.01	228	156652	22.65	ng	97
83) Bis(2-ethylhexyl)phthalate	21.14	149	19977	3.85	ng	95
85) Indeno(1,2,3-cd)pyrene	23.67	276	18051	2.46	ng	# 74
87) Benzo(b)fluoranthene	22.24	252	273648	33.73	ng	97
88) Benzo(k)fluoranthene	22.24	252	273648	38.61	ng	# 94
89) Benzo(a)pyrene	22.58	252	137821	19.26	ng	# 93
90) Dibenzo(a,h)anthracene	23.79	278	19608	2.99	ng	# 79
91) Benzo(g,h,i)perylene	24.03	276	62166	9.52	ng	98

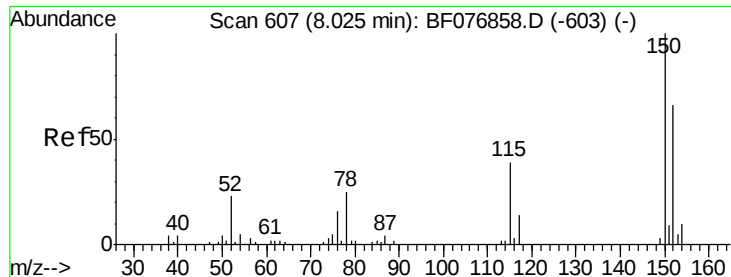
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021115\
Data File : BF077274.D
Acq On : 12 Feb 2015 6:42
Operator : TP/IZ
Sample : G1254-03DL 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
UB10ADL

Quant Time: Feb 12 11:35:52 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 10 13:30:38 2015
Response via : Initial Calibration



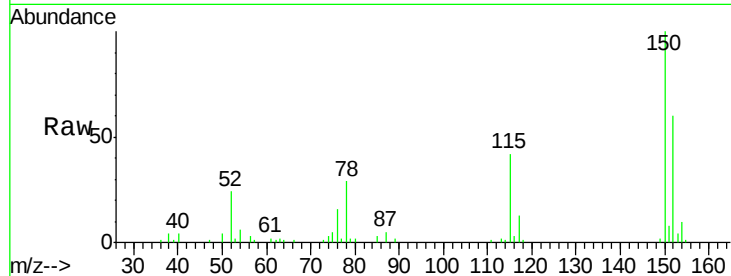


#1

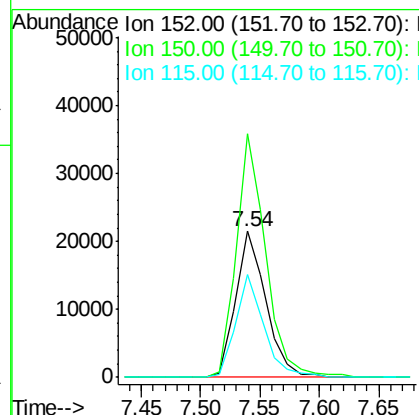
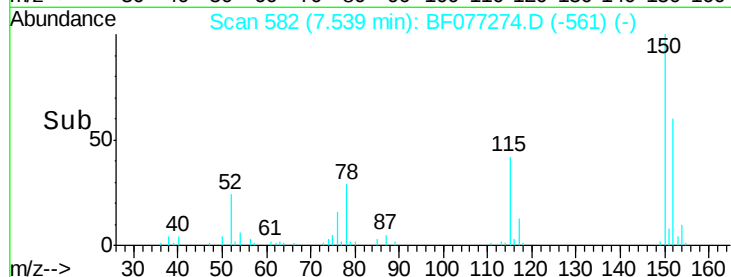
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.54 min Scan# 582
 Delta R.T. -0.06 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Tgt Ion:152 Resp: 38030
 Ion Ratio Lower Upper
 152 100
 150 167.1 121.7 182.5
 115 70.8 47.0 70.6#



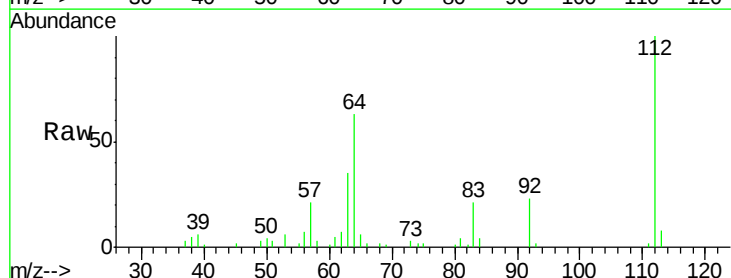
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



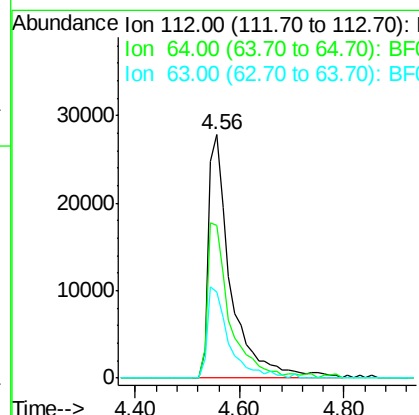
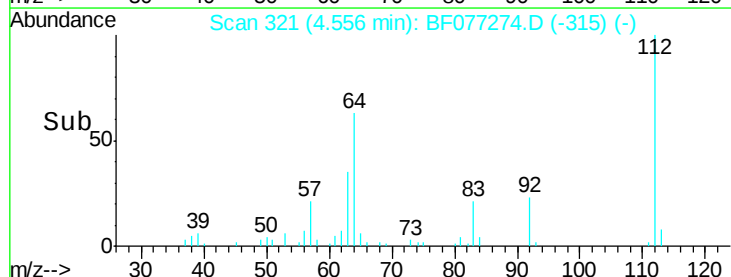
#5

2-Fluorophenol
 Concen: 35.63 ng
 RT: 4.56 min Scan# 321
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion:112 Resp: 82406
 Ion Ratio Lower Upper
 112 100
 64 62.6 54.2 81.4
 63 35.3 28.4 42.6



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: 35.01 ng

RT: 6.99 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

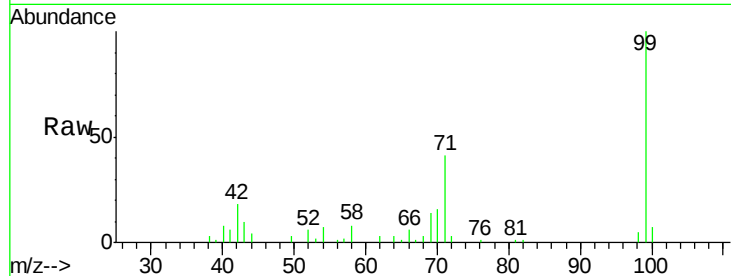
Tgt Ion: 99 Resp: 102153

Ion Ratio Lower Upper

99 100

42 18.0 15.0 22.4

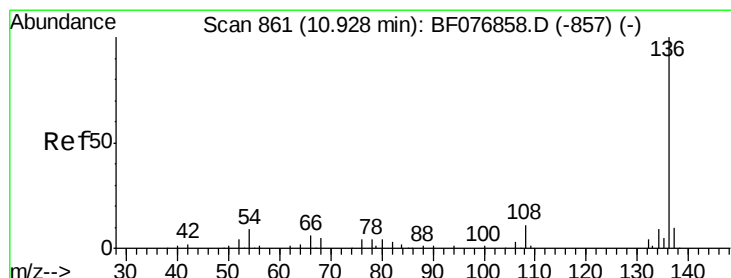
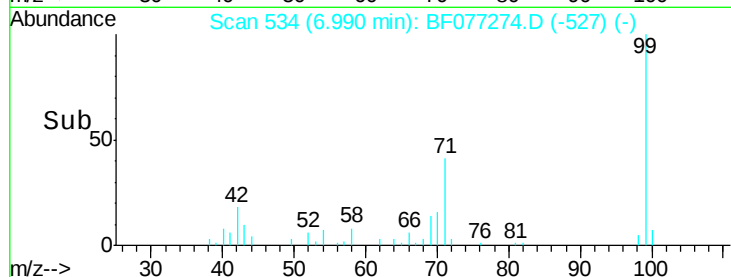
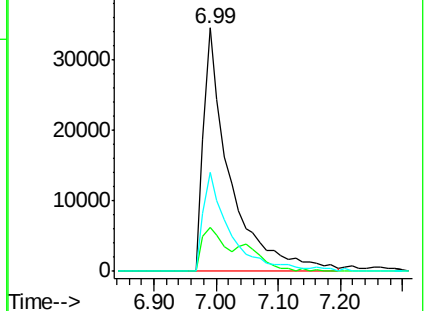
71 40.7 30.5 45.7



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: 10.45 min Scan# 837

Delta R.T. -0.05 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Tgt Ion: 136 Resp: 164800

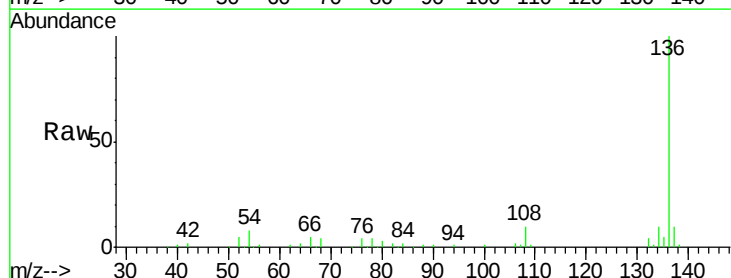
Ion Ratio Lower Upper

136 100

137 10.4 8.1 12.1

54 8.5 7.0 10.4

68 4.2 3.7 5.5

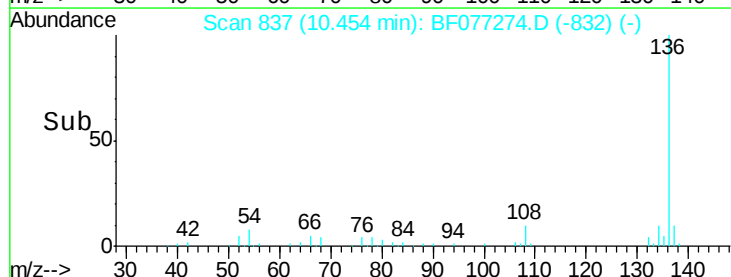
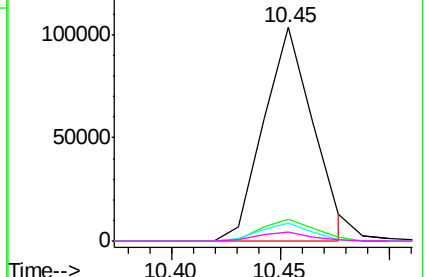


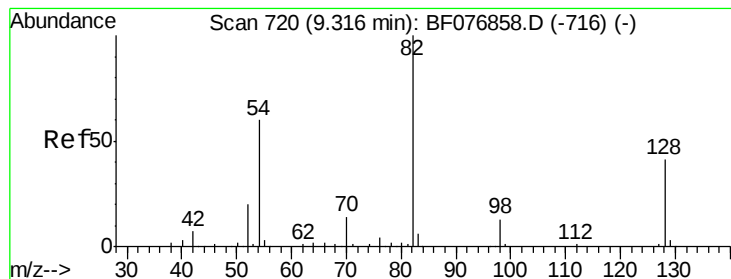
Abundance Ion 136.00 (135.70 to 136.70): E

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: 22.05 ng

RT: 8.85 min Scan# 697

Delta R.T. -0.05 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

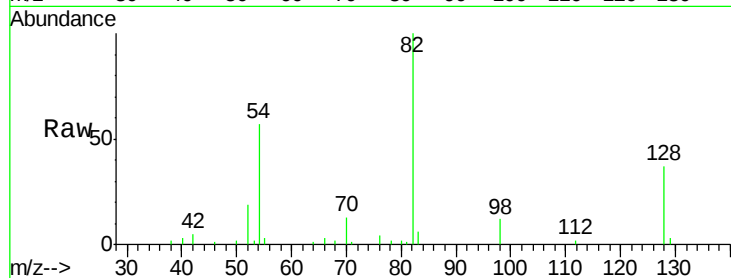
Tgt Ion: 82 Resp: 65591

Ion Ratio Lower Upper

82 100

128 37.5 33.1 49.7

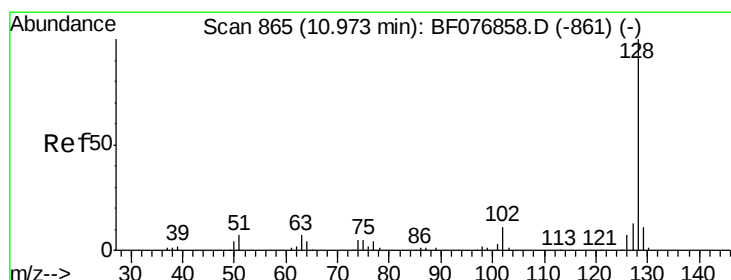
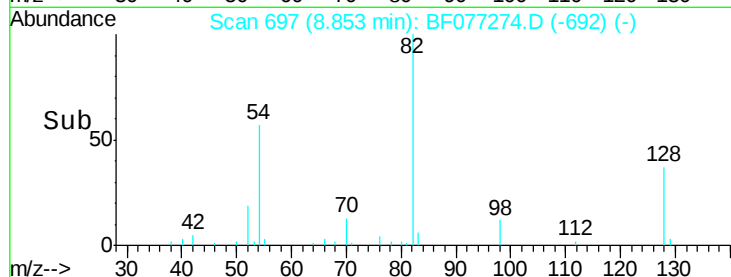
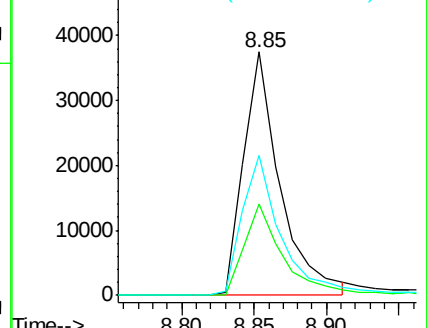
54 57.3 48.3 72.5



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: 4.36 ng

RT: 10.50 min Scan# 841

Delta R.T. -0.05 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

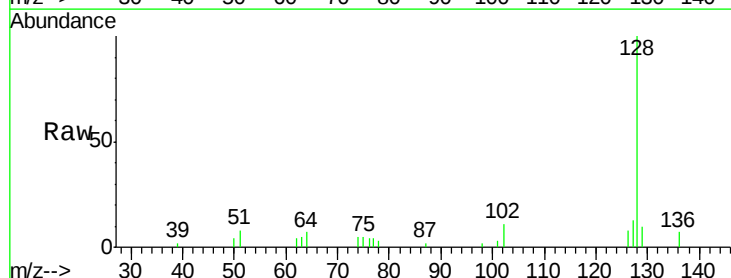
Tgt Ion: 128 Resp: 36992

Ion Ratio Lower Upper

128 100

129 9.6 9.0 13.6

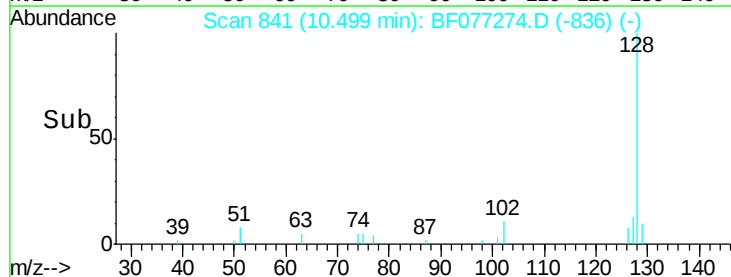
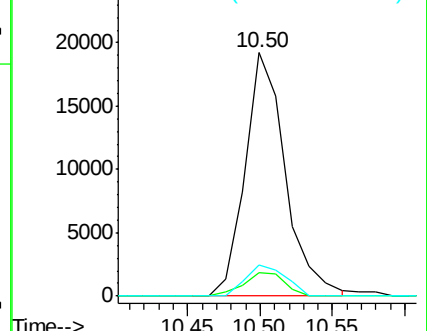
127 12.9 10.2 15.2

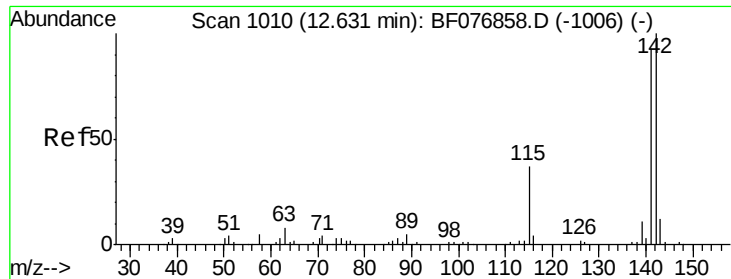


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

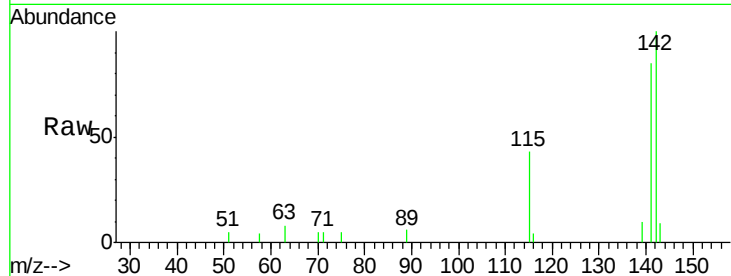




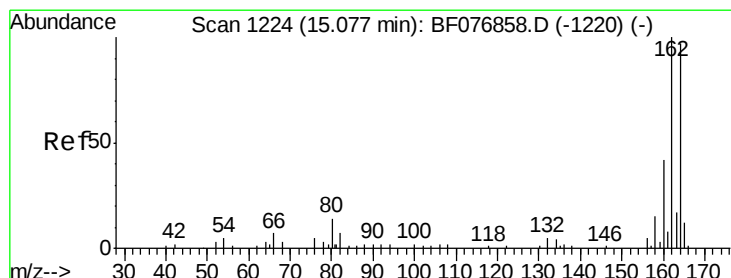
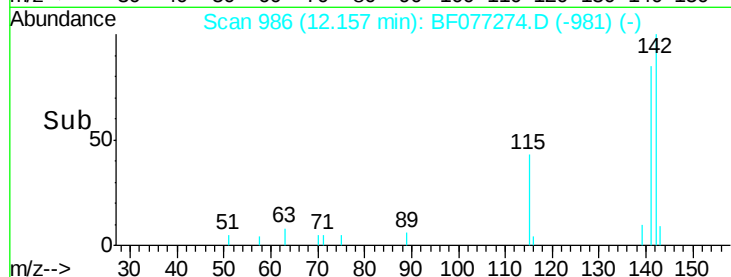
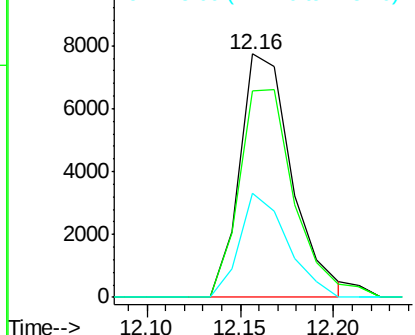
#37
 2-Methylnaphthalene
 Concen: 2.61 ng
 RT: 12.16 min Scan# 986
 Delta R.T. -0.05 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Tgt Ion:142 Resp: 15143
 Ion Ratio Lower Upper
 142 100
 141 84.8 74.5 111.7
 115 43.0 29.7 44.5

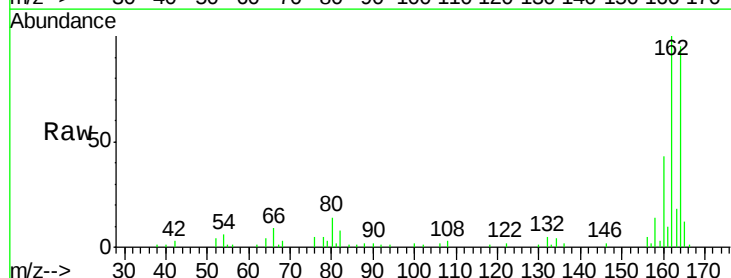


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

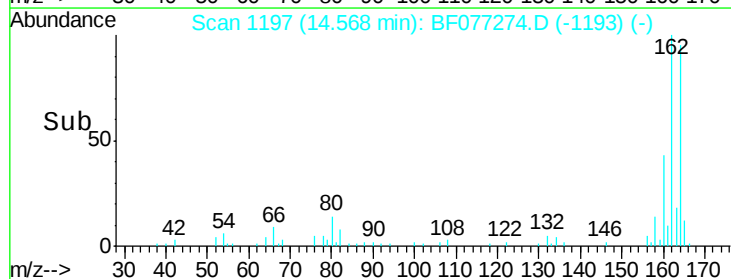
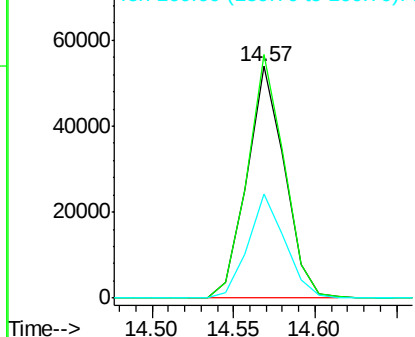


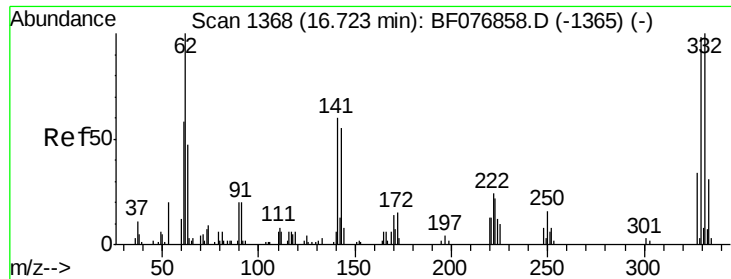
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.57 min Scan# 1197
 Delta R.T. -0.06 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion:164 Resp: 86214
 Ion Ratio Lower Upper
 164 100
 162 105.2 82.4 123.6
 160 45.0 34.8 52.2



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

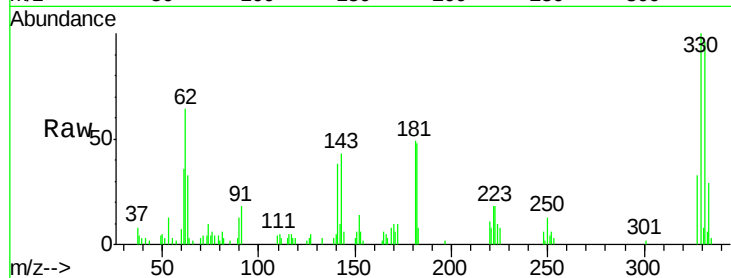




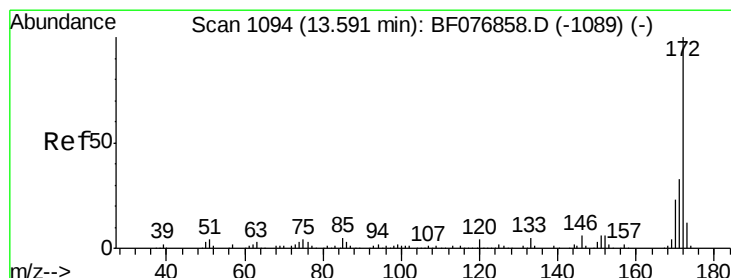
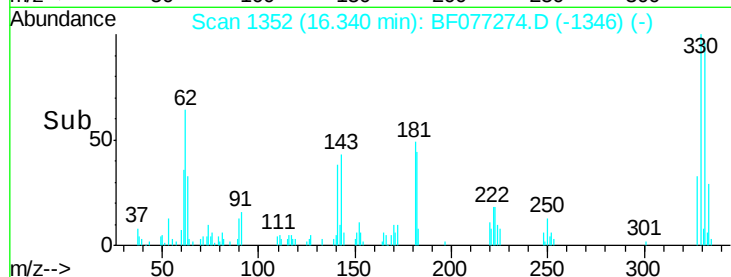
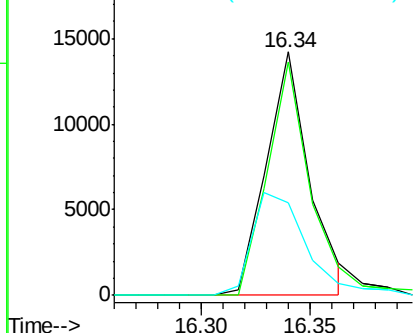
#41
 2,4,6-Tribromophenol
 Concen: 28.49 ng
 RT: 16.34 min Scan# 1352
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.4	77.8	116.6
141	50.7	38.5	57.7

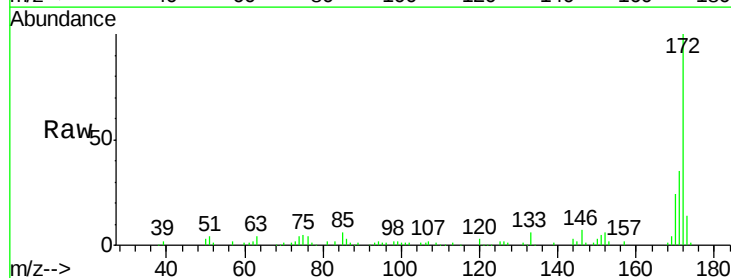


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

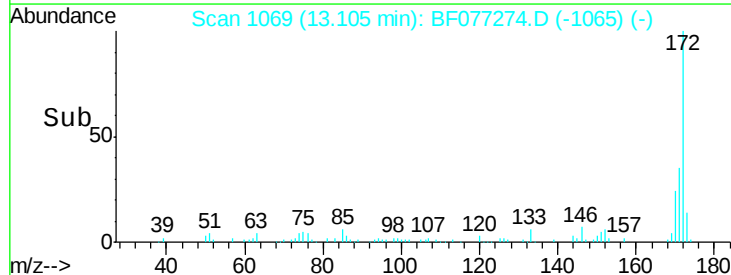
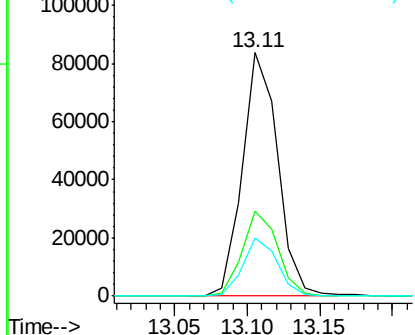


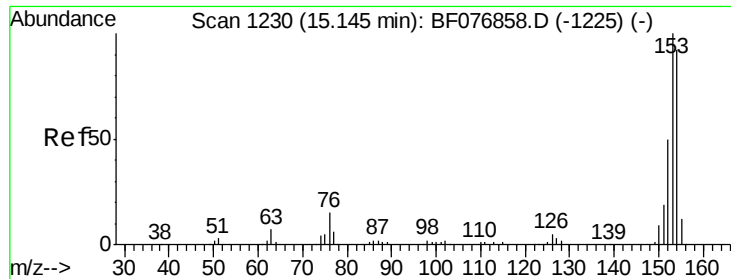
#44
 2-Fluorobiphenyl
 Concen: 24.93 ng
 RT: 13.11 min Scan# 1069
 Delta R.T. -0.06 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	26.6	40.0
170	24.1	18.0	27.0



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: 7.46 ng

RT: 14.65 min Scan# 1204

Delta R.T. -0.05 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

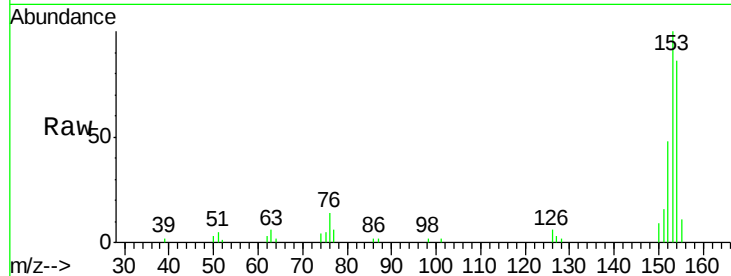
Tgt Ion:154 Resp: 37572

Ion Ratio Lower Upper

154 100

153 116.7 87.0 130.6

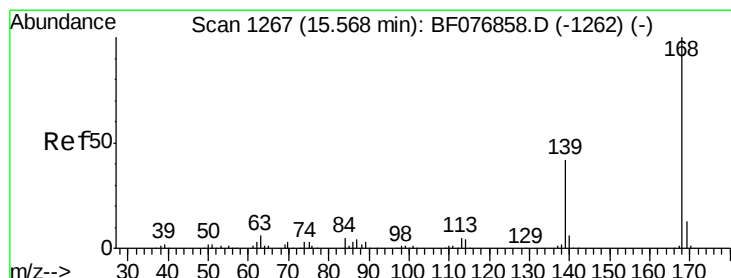
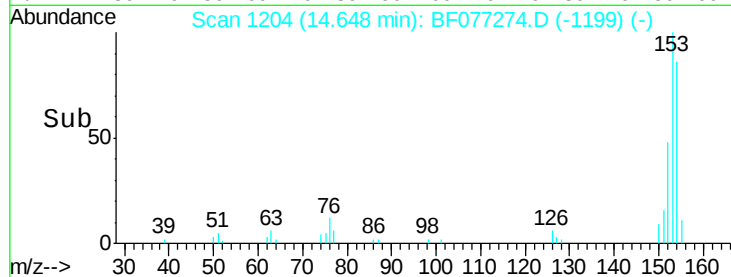
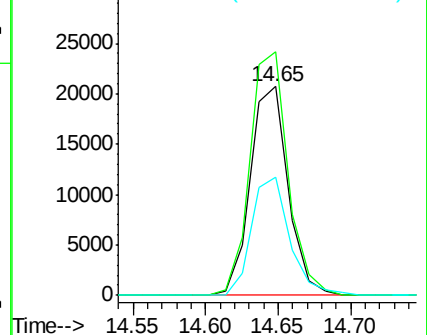
152 56.4 43.5 65.3



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: 5.99 ng

RT: 15.07 min Scan# 1241

Delta R.T. -0.06 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

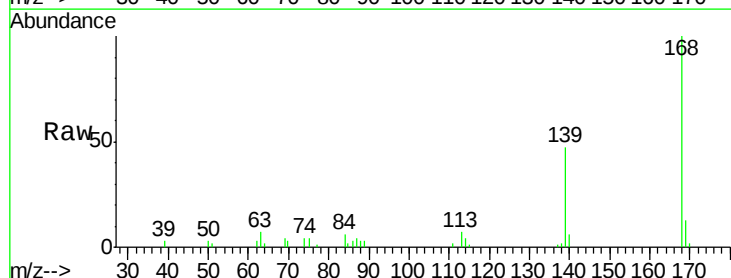
Tgt Ion:168 Resp: 43927

Ion Ratio Lower Upper

168 100

139 46.9 33.4 50.2

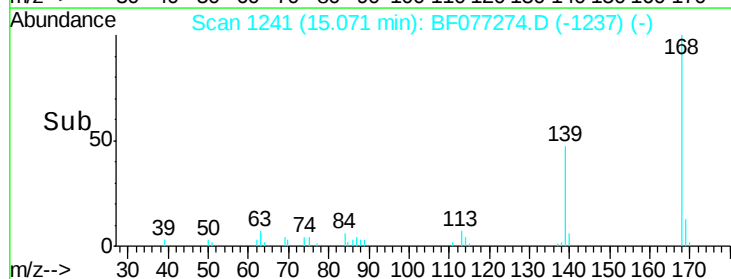
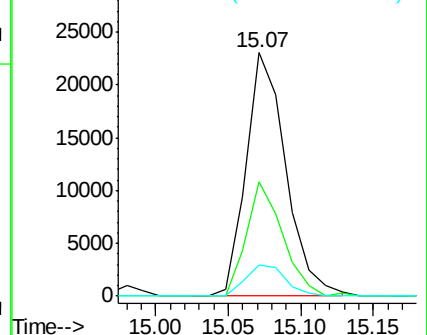
169 13.0 10.6 15.8

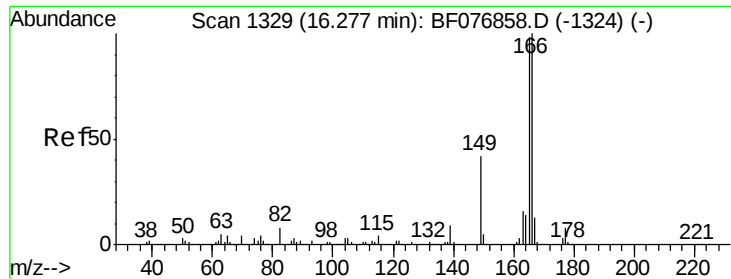


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

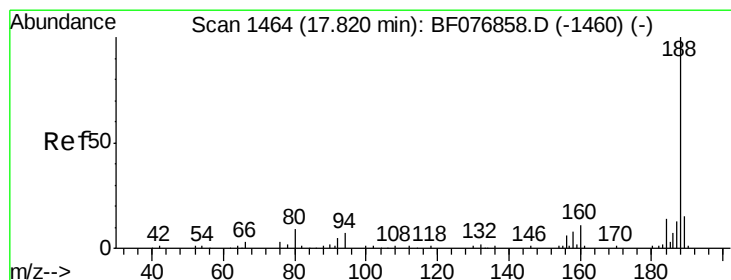
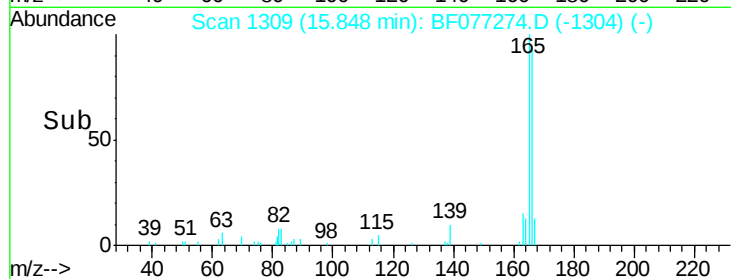
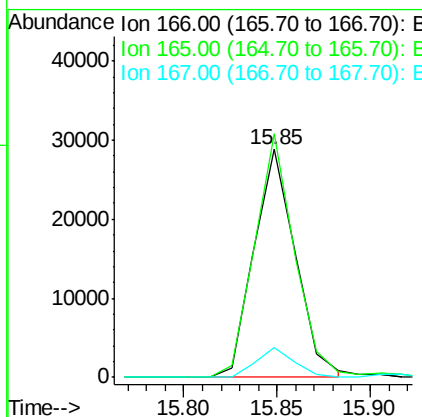
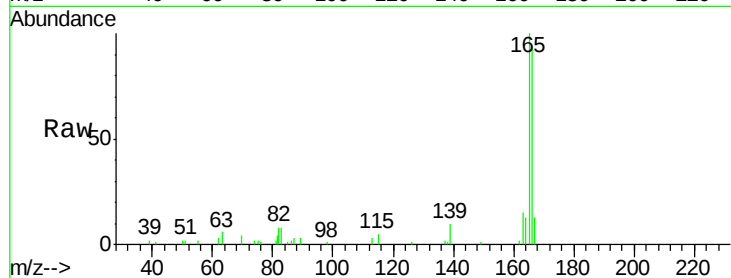




#57
 Fluorene
 Concen: 7.11 ng
 RT: 15.85 min Scan# 1309
 Delta R.T. -0.05 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

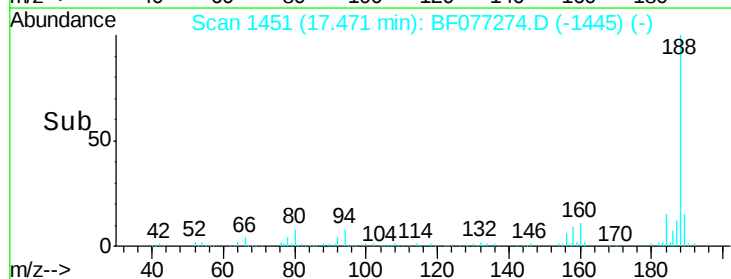
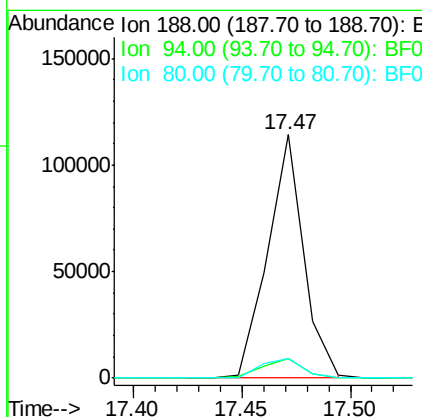
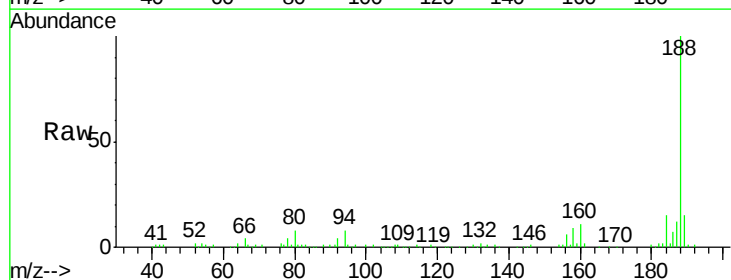
Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

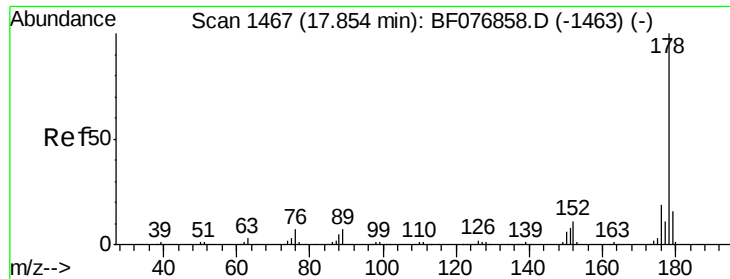
Tgt Ion:166 Resp: 44193
 Ion Ratio Lower Upper
 166 100
 165 106.9 78.5 117.7
 167 13.4 10.4 15.6



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.47 min Scan# 1451
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion:188 Resp: 132384
 Ion Ratio Lower Upper
 188 100
 94 7.8 6.0 9.0
 80 8.0 6.9 10.3





#70

Phenanthrene

Concen: 62.10 ng

RT: 17.51 min Scan# 1454

Delta R.T. -0.03 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

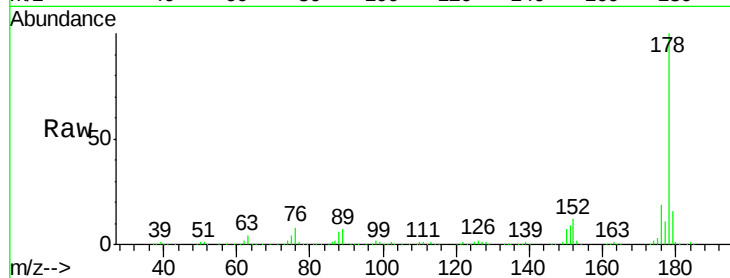
Tgt Ion:178 Resp: 512678

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

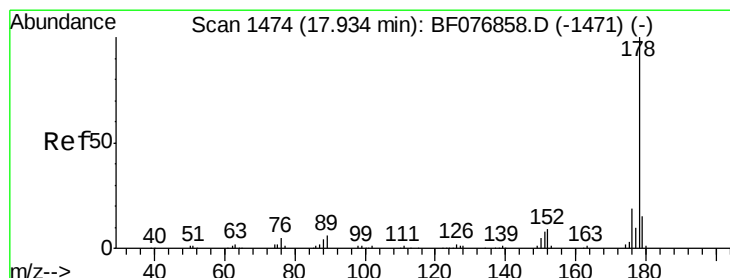
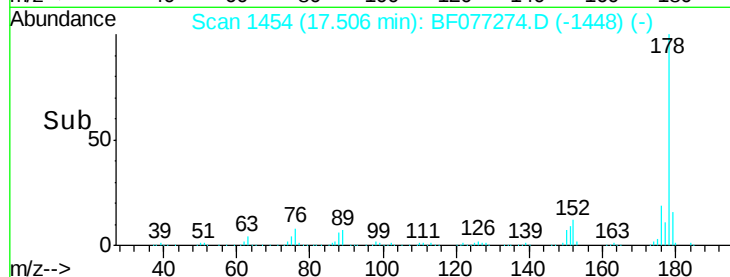
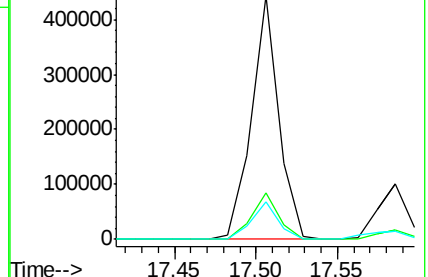
179 15.6 12.7 19.1



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



#71

Anthracene

Concen: 15.43 ng

RT: 17.59 min Scan# 1461

Delta R.T. -0.03 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

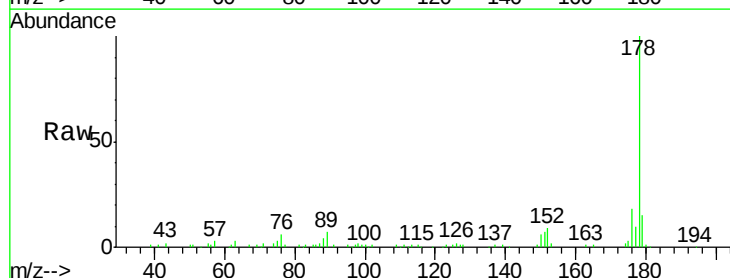
Tgt Ion:178 Resp: 124233

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.0

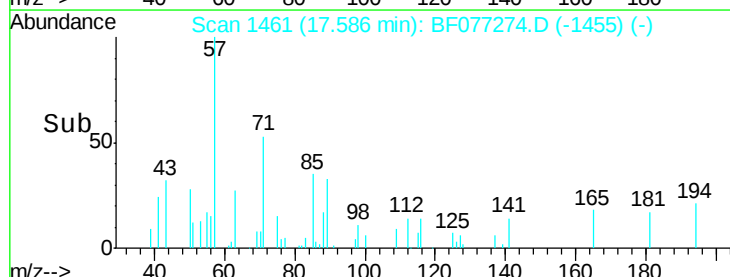
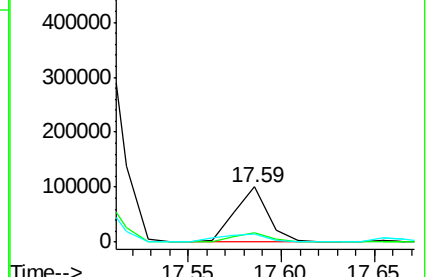
179 14.9 11.9 17.9

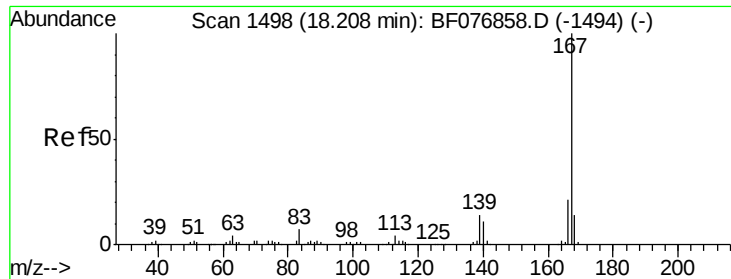


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

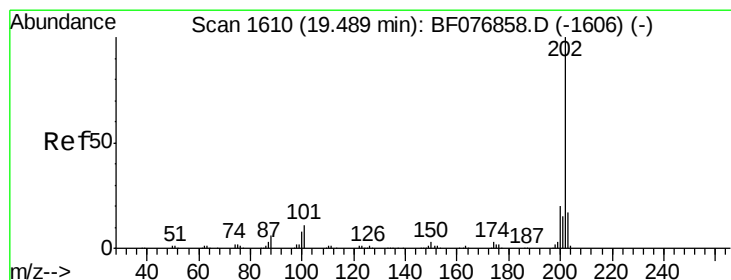
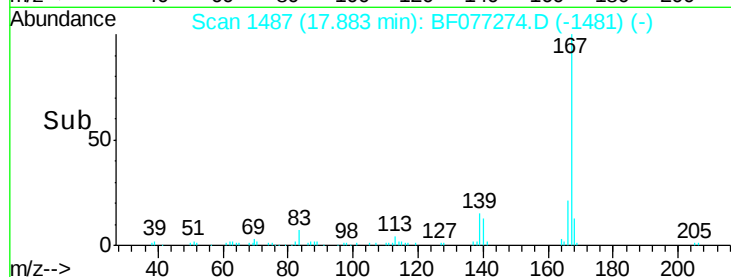
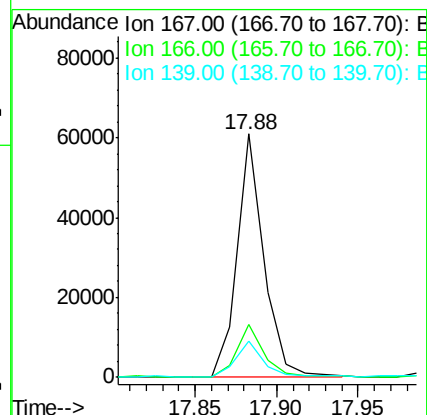
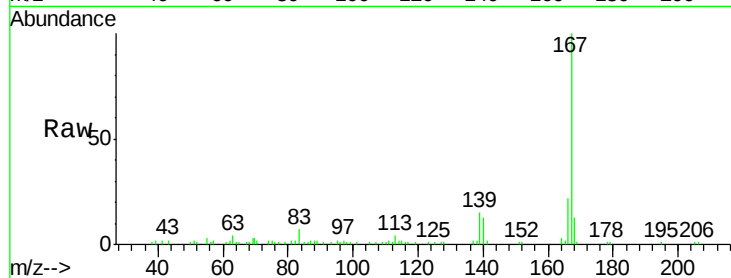




#72
 Carbazole
 Concen: 8.84 ng
 RT: 17.88 min Scan# 1487
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

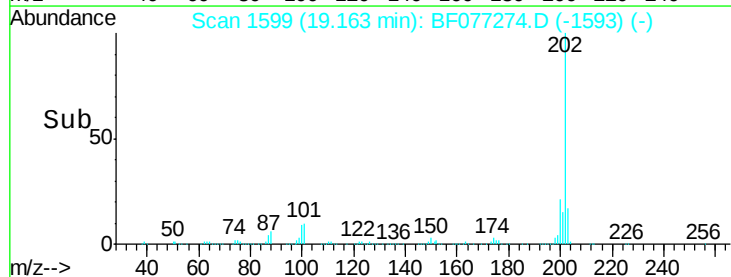
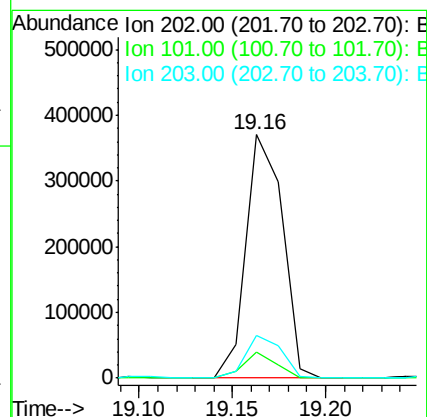
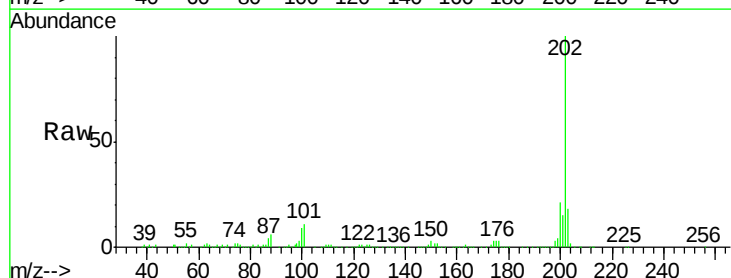
Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

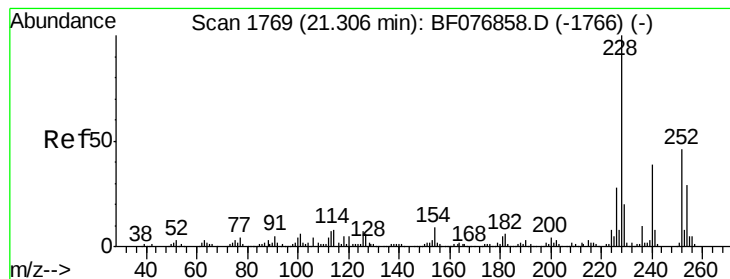
Tgt Ion:167 Resp: 69042
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.0 25.6
 139 14.9 11.3 16.9



#74
 Fluoranthene
 Concen: 59.83 ng
 RT: 19.16 min Scan# 1599
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion:202 Resp: 506091
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 30.7
 203 17.7 0.0 36.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 20.99 min Scan# 1759

Delta R.T. -0.02 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

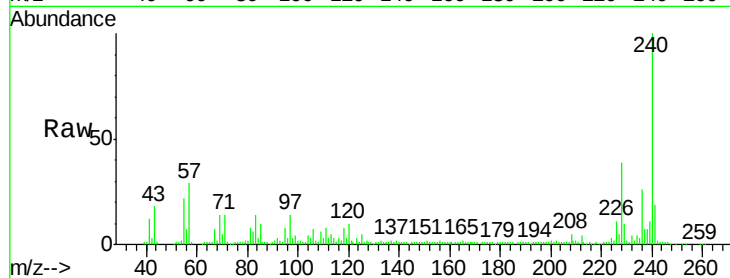
Tgt Ion:240 Resp: 120893

Ion Ratio Lower Upper

240 100

120 9.7 10.4 15.6#

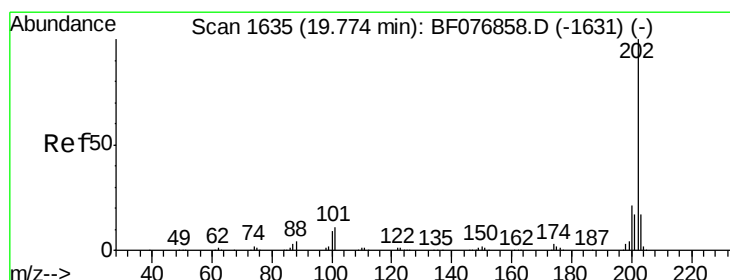
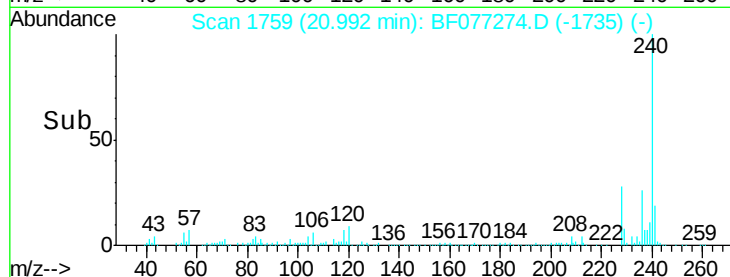
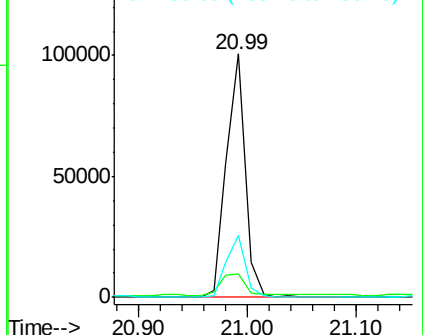
236 25.6 20.2 30.2



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: 48.10 ng

RT: 19.45 min Scan# 1624

Delta R.T. -0.02 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

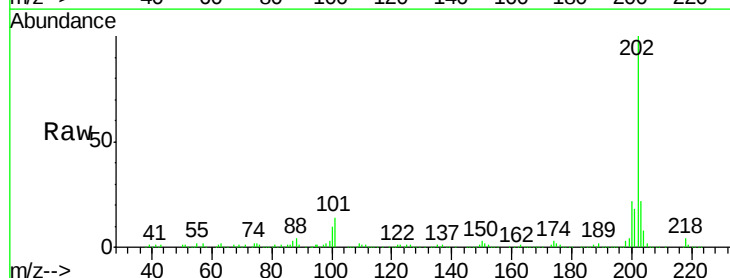
Tgt Ion:202 Resp: 398491

Ion Ratio Lower Upper

202 100

200 21.6 16.7 25.1

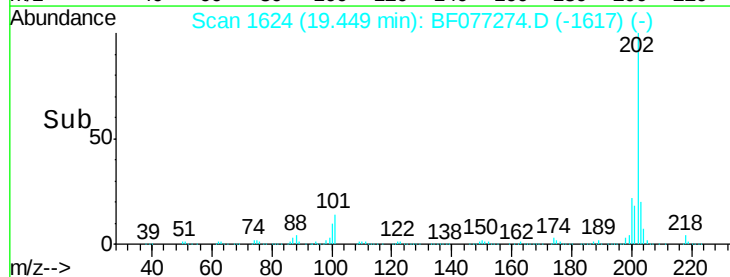
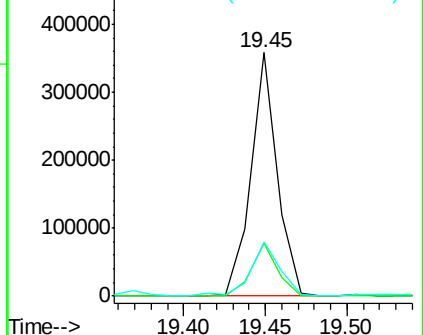
203 22.2 14.0 21.0#

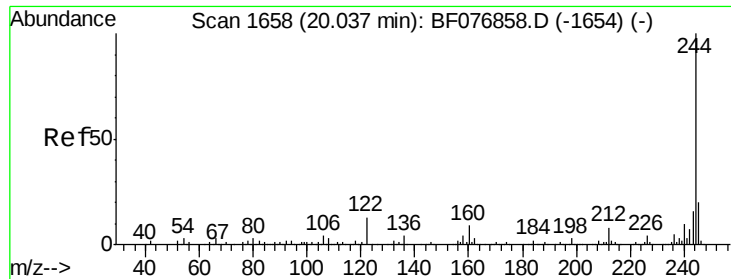


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

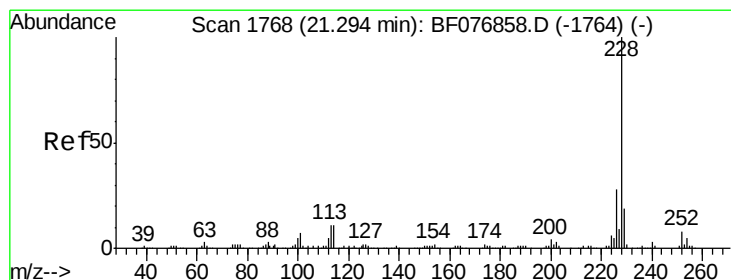
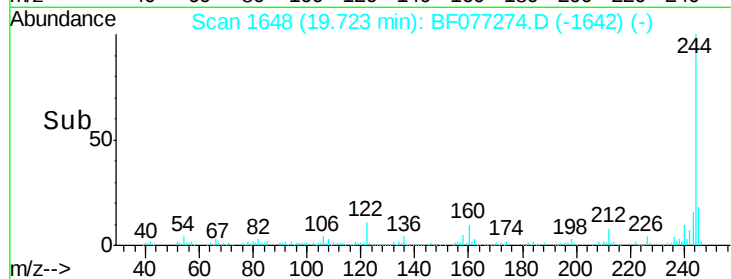
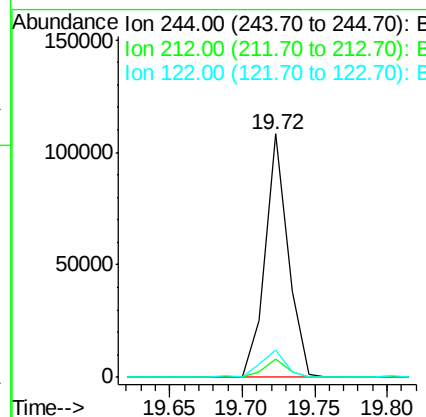
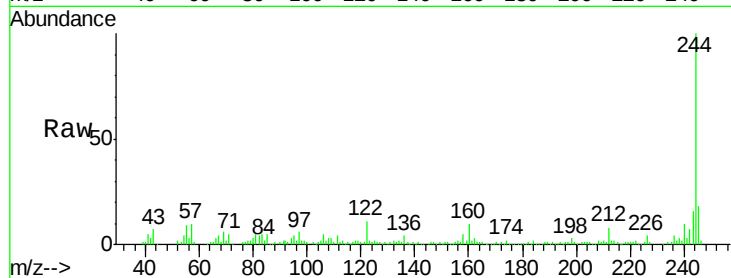




#78
 Terphenyl-d14
 Concen: 22.64 ng
 RT: 19.72 min Scan# 1648
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

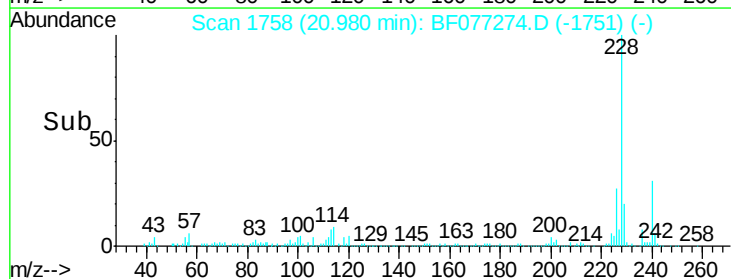
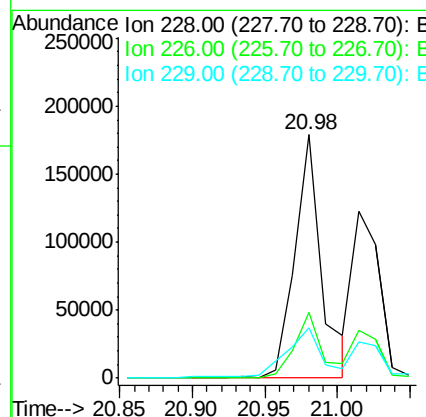
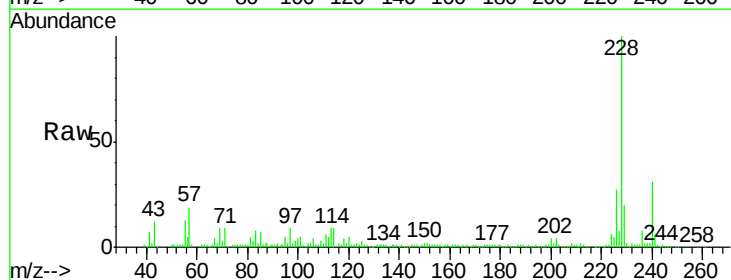
Instrument :
 BNA_F
 ClientSampled :
 UB10ADL

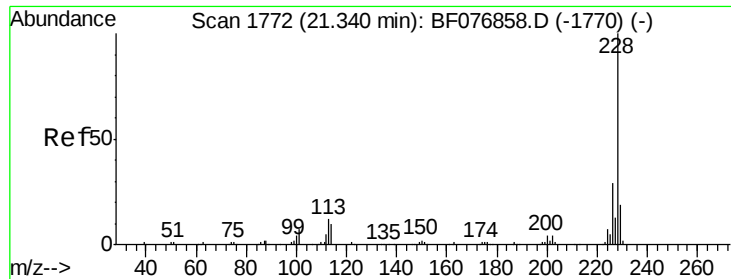
Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.3	9.5
122	11.3	10.1	15.1



#80
 Benzo(a)anthracene
 Concen: 29.84 ng
 RT: 20.98 min Scan# 1758
 Delta R.T. -0.02 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.1	33.1
229	20.4	15.5	23.3





#82

Chrysene

Concen: 22.65 ng

RT: 21.01 min Scan# 1761

Delta R.T. -0.03 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

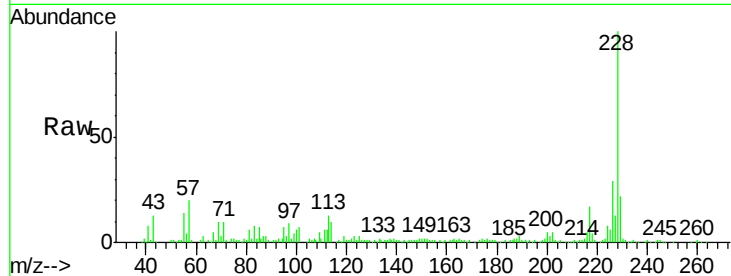
Tgt Ion:228 Resp: 156652

Ion Ratio Lower Upper

228 100

226 28.7 23.4 35.0

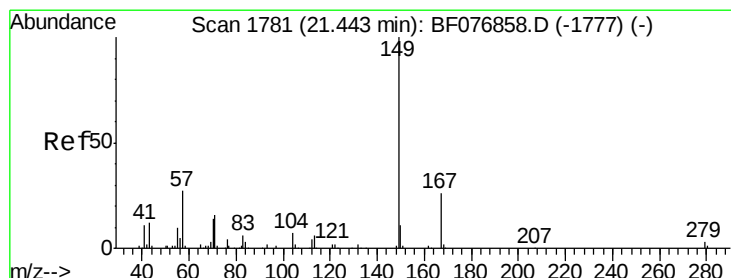
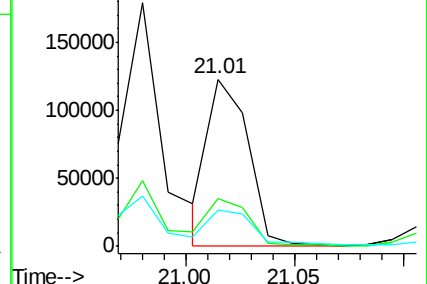
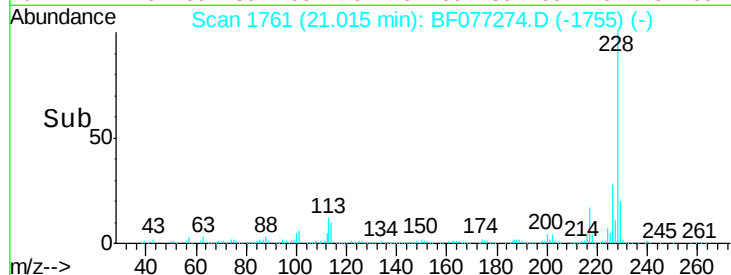
229 22.1 15.4 23.0



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.85 ng

RT: 21.14 min Scan# 1772

Delta R.T. -0.02 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

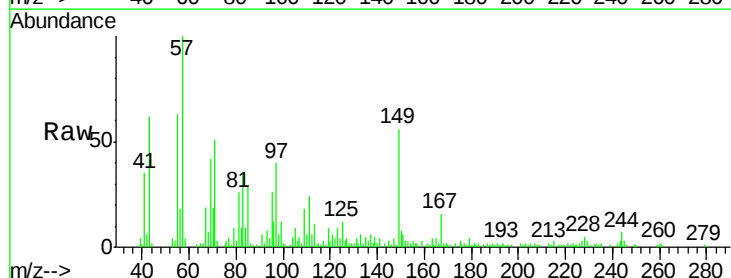
Tgt Ion:149 Resp: 19977

Ion Ratio Lower Upper

149 100

167 28.6 20.6 30.8

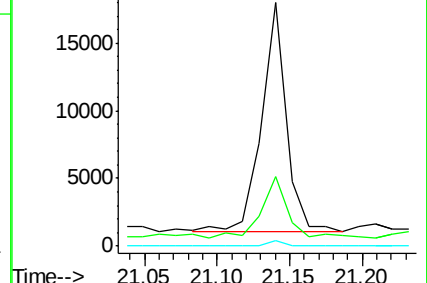
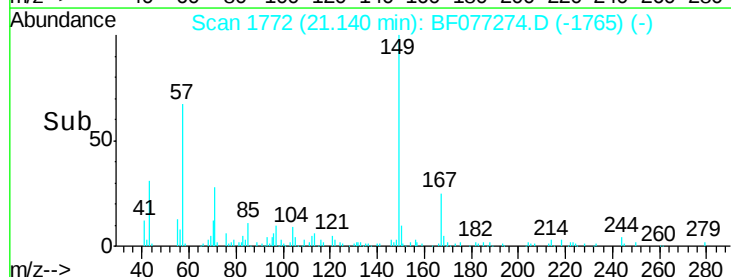
279 2.2 2.2 3.2

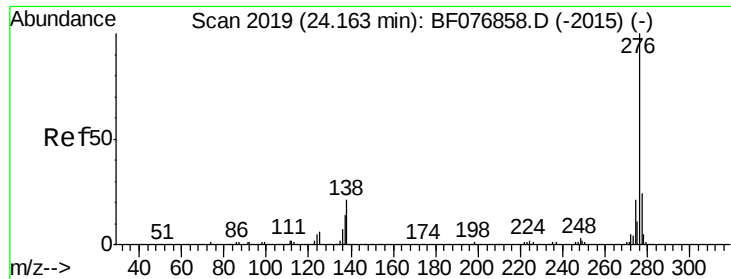


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.46 ng

RT: 23.67 min Scan# 1993

Delta R.T. -0.07 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

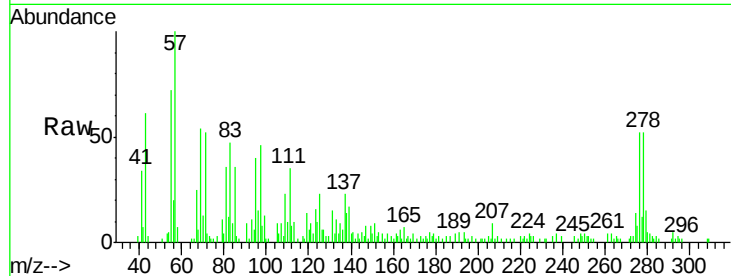
Tgt Ion:276 Resp: 18051

Ion Ratio Lower Upper

276 100

138 30.8 14.6 22.0#

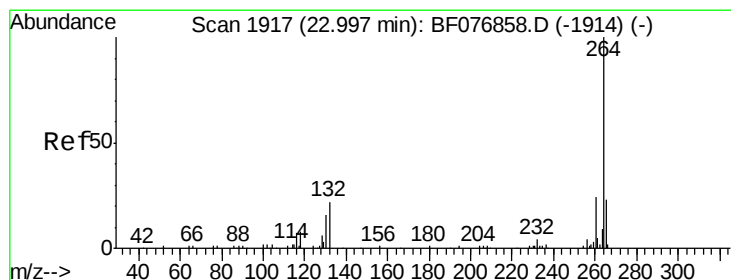
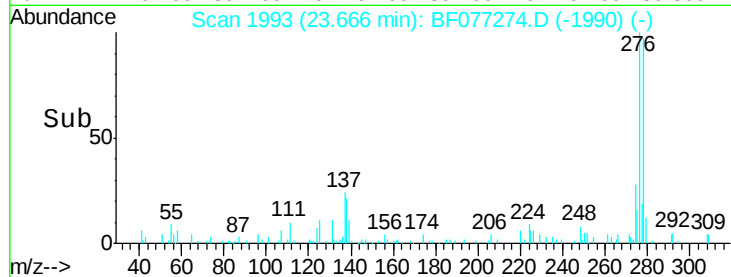
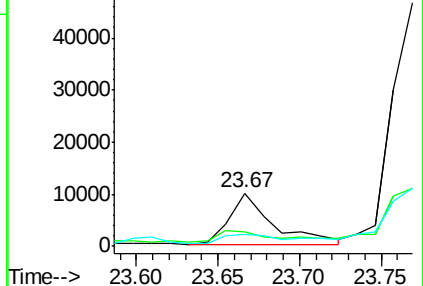
277 29.3 14.8 22.2#



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: 22.65 min Scan# 1904

Delta R.T. -0.01 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

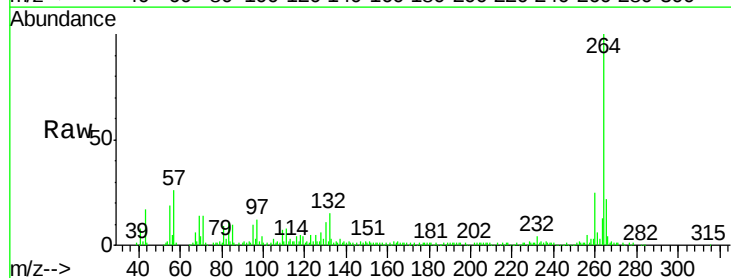
Tgt Ion:264 Resp: 120441

Ion Ratio Lower Upper

264 100

260 24.8 19.0 28.4

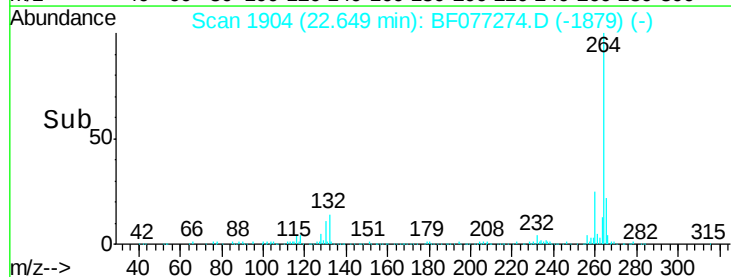
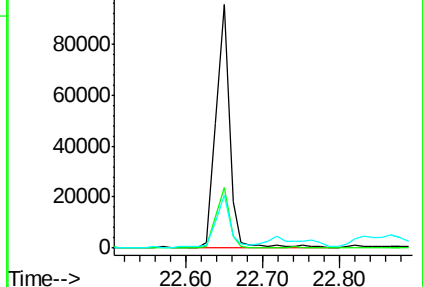
265 21.9 18.1 27.1

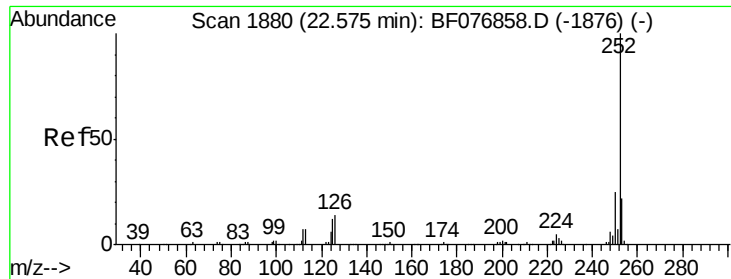


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

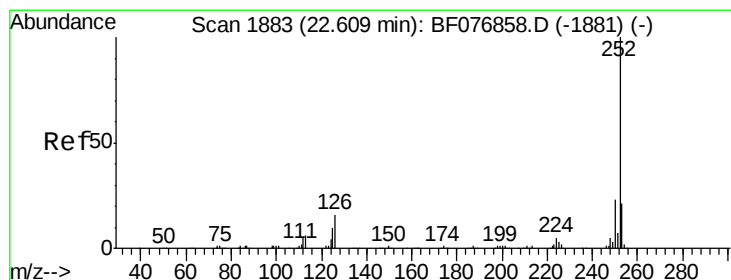
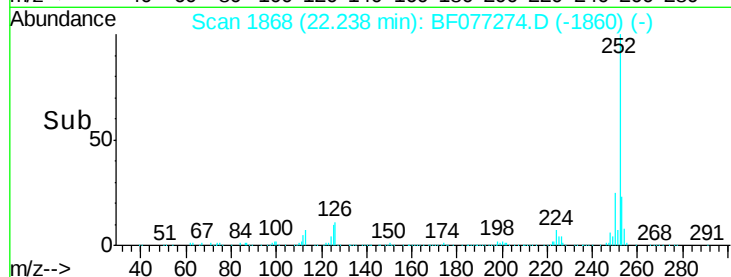
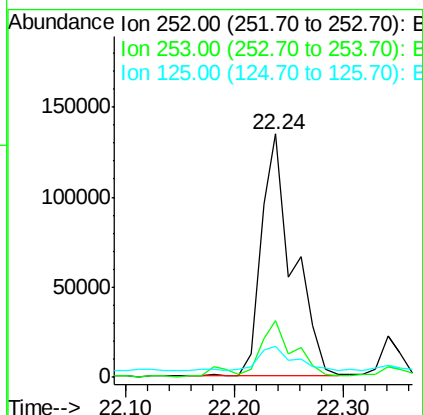
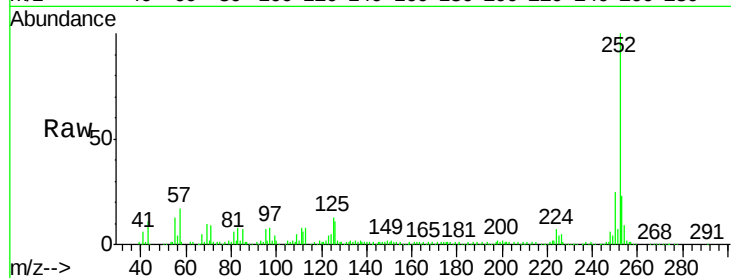




#87
Benzo(b)fluoranthene
Concen: 33.73 ng
RT: 22.24 min Scan# 1868
Delta R.T. -0.01 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

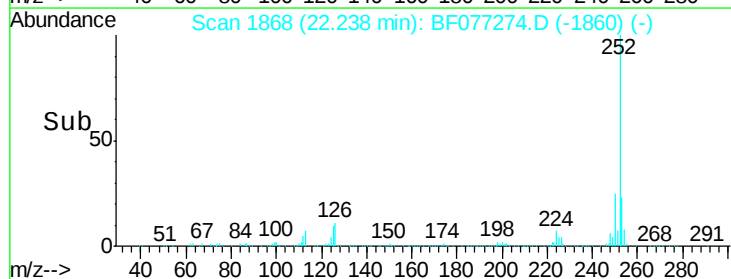
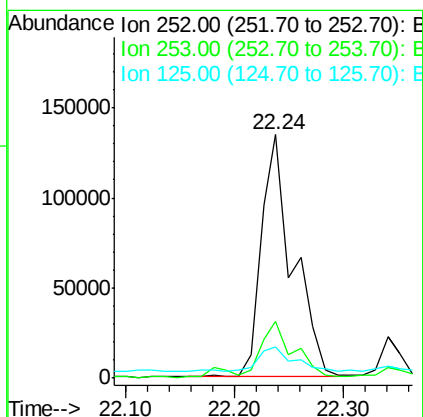
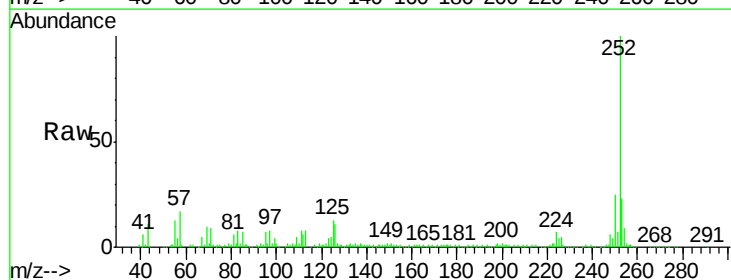
Instrument :
BNA_F
ClientSampleId :
UB10ADL

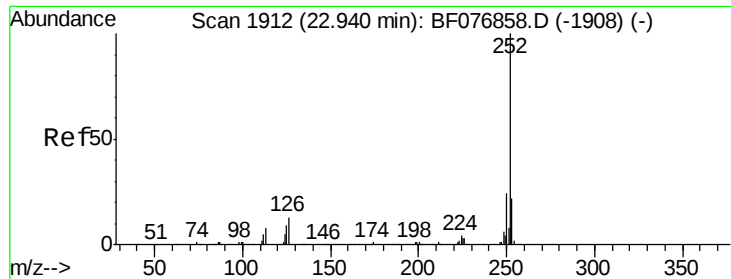
Tgt Ion:252 Resp: 273648
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 12.6 9.4 14.0



#88
Benzo(k)fluoranthene
Concen: 38.61 ng
RT: 22.24 min Scan# 1868
Delta R.T. -0.01 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

Tgt Ion:252 Resp: 273648
Ion Ratio Lower Upper
252 100
253 23.3 17.2 25.8
125 12.6 7.1 10.7#





#89

Benzo(a)pyrene

Concen: 19.26 ng

RT: 22.58 min Scan# 1898

Delta R.T. -0.01 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

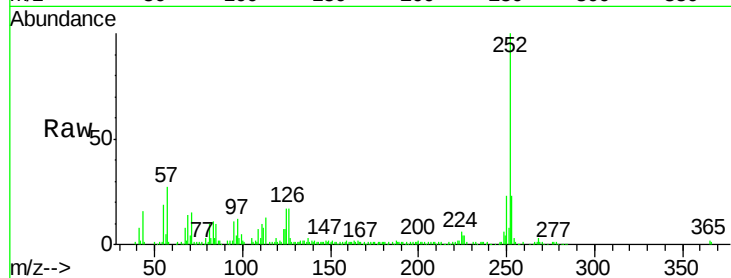
Tgt Ion:252 Resp: 137821

Ion Ratio Lower Upper

252 100

253 23.0 17.9 26.9

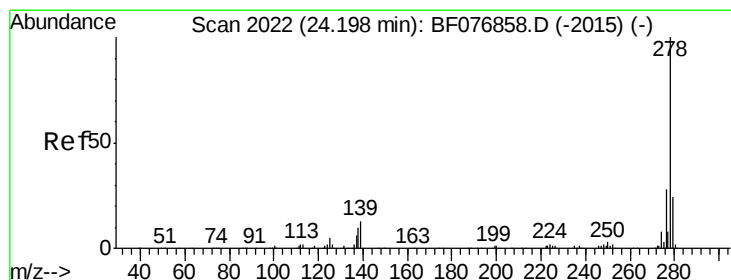
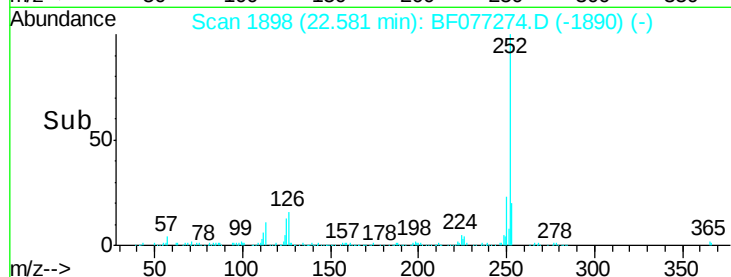
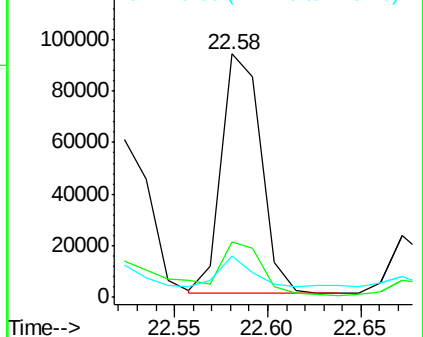
125 16.7 7.2 10.8#



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: 2.99 ng

RT: 23.79 min Scan# 2004

Delta R.T. 0.03 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

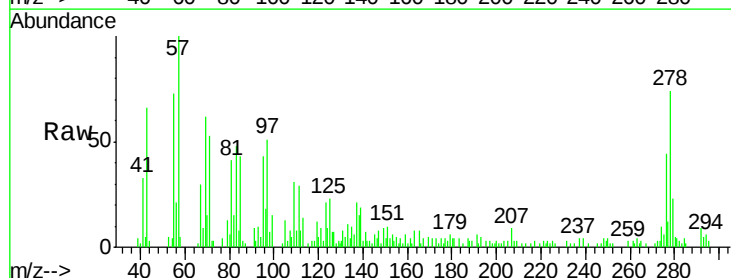
Tgt Ion:278 Resp: 19608

Ion Ratio Lower Upper

278 100

139 25.4 10.5 15.7#

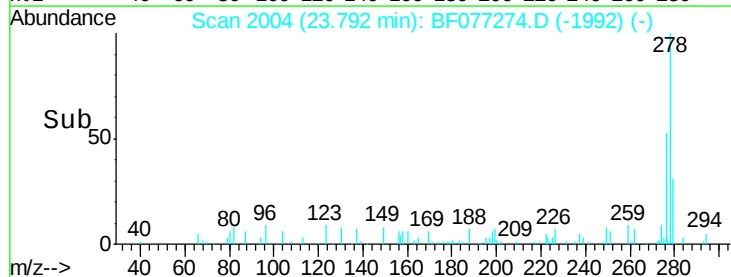
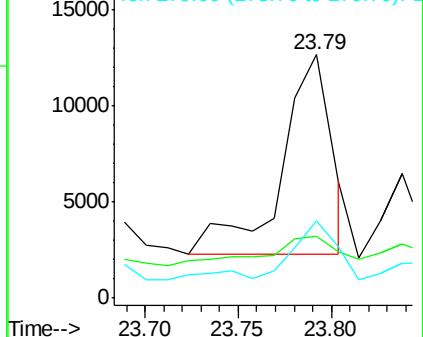
279 31.6 19.3 28.9#

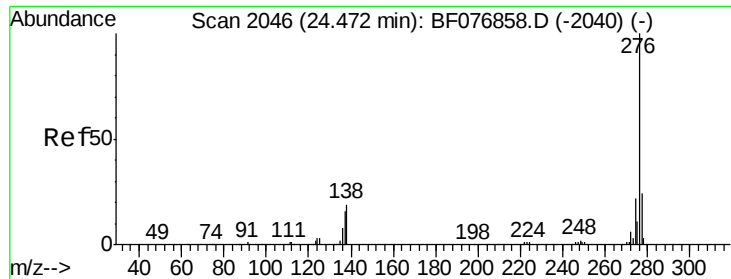


Abundance Ion 278.00 (277.70 to 278.70): E

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: 9.52 ng

RT: 24.03 min Scan# 2025

Delta R.T. 0.03 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

ClientSampleId :

UB10ADL

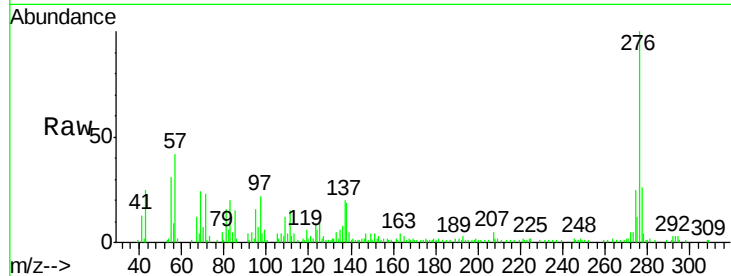
Tgt Ion: 276 Resp: 62166

Ion Ratio Lower Upper

276 100

277 25.9 19.5 29.3

138 19.1 15.0 22.6



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

