

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101992.D
 Acq On : 10 Jan 2018 21:16
 Operator : SJ/JU
 Sample : J1076-09 50X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-02

Quant Time: Jan 11 01:56:31 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	213474	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	891680	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	386137	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	645387	20.00	ng	0.00
75) Chrysene-d12	13.87	240	385265	20.00	ng	0.00
86) Perylene-d12	15.29	264	378781	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	5803	0.38	ng	0.00
7) Phenol-d6	6.35	99	7456	0.41	ng	0.00
23) Nitrobenzene-d5	7.28	82	3995	0.26	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	1152	0.34	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	8860	0.36	ng	-0.01
78) Terphenyl-d14	12.82	244	7975	0.43	ng	-0.01

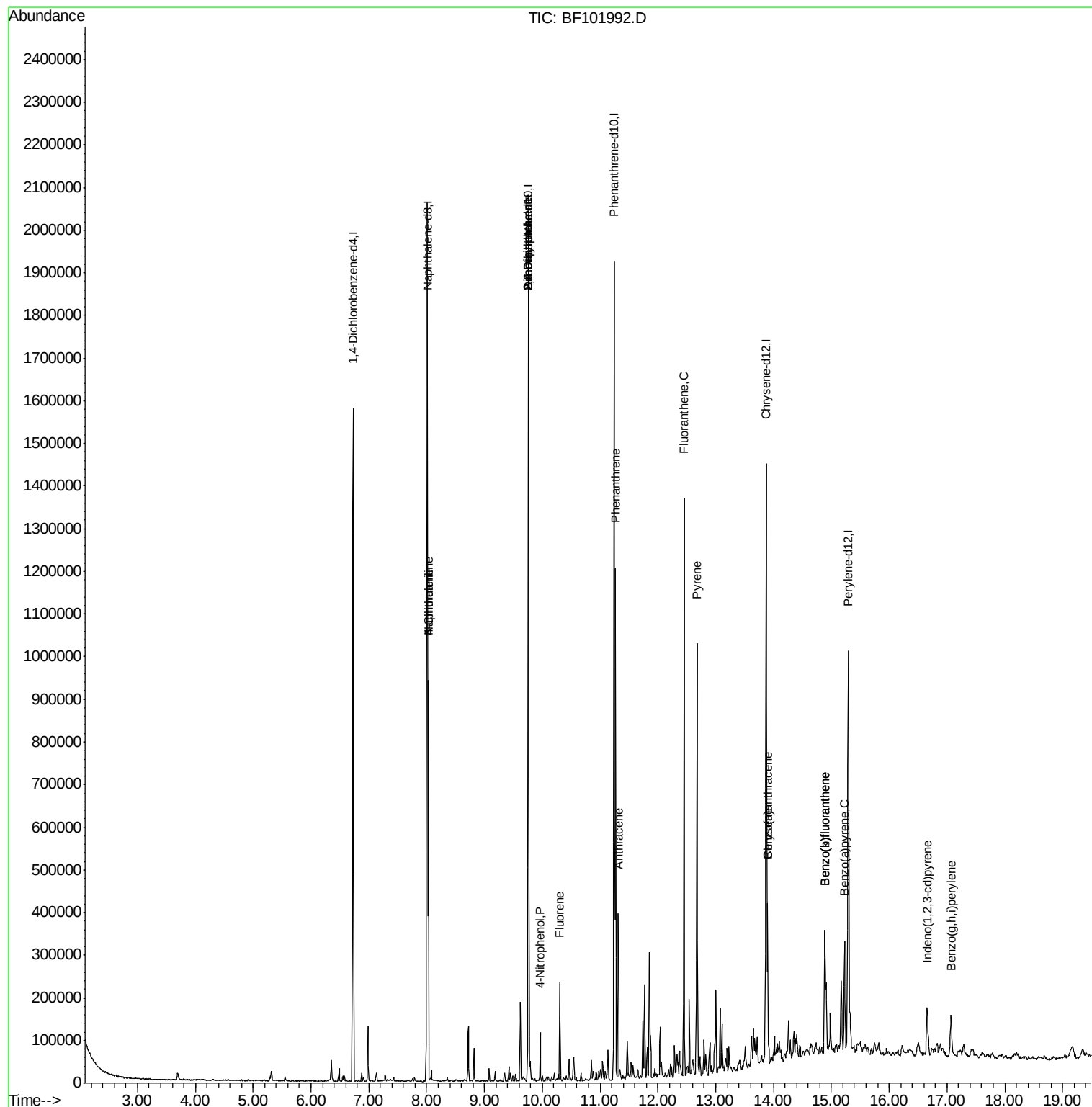
Target Compounds				Qvalue		
31) Naphthalene	8.03	128	363134	8.150	ng	100
33) 4-Chloroaniline	8.03	127	48017	2.525	ng	# 37
49) Dimethylphthalate	9.76	163	109308	3.529	ng	# 1
50) 2,6-Dinitrotoluene	9.76	165	50301	8.129	ng	# 26
55) 4-Nitrophenol	9.96	139	12563	2.159	ng	# 9
56) 2,4-Dinitrotoluene	9.76	165	50301	6.486	ng	# 24
57) Fluorene	10.30	166	57367	2.372	ng	96
70) Phenanthrene	11.27	178	434429	11.524	ng	98
71) Anthracene	11.32	178	128057	3.349	ng	98
74) Fluoranthene	12.45	202	466323	12.572	ng	98
77) Pyrene	12.68	202	370395	10.876	ng	99
80) Benzo(a)anthracene	13.90	228	122940	5.001	ng	97
82) Chrysene	13.90	228	122940	4.796	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	69126	3.705	ng	97
87) Benzo(b)fluoranthene	14.89	252	198709	8.046	ng	# 96
88) Benzo(k)fluoranthene	14.89	252	198709	8.340	ng	98
89) Benzo(a)pyrene	15.23	252	107444	4.834	ng	98
91) Benzo(g,h,i)perylene	17.07	276	61491	3.442	ng	# 90

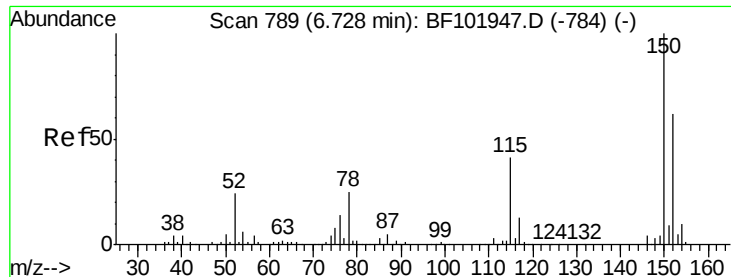
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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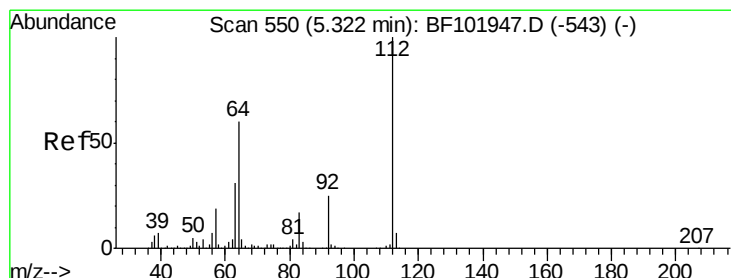
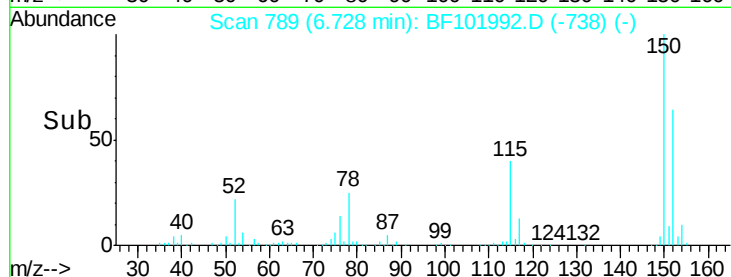
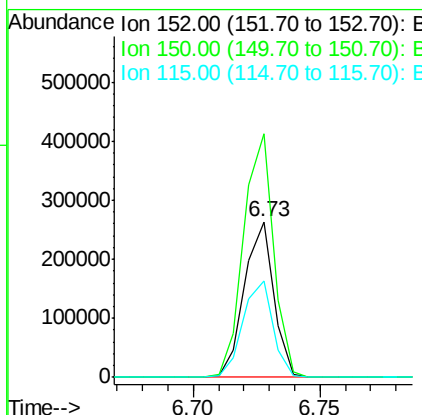
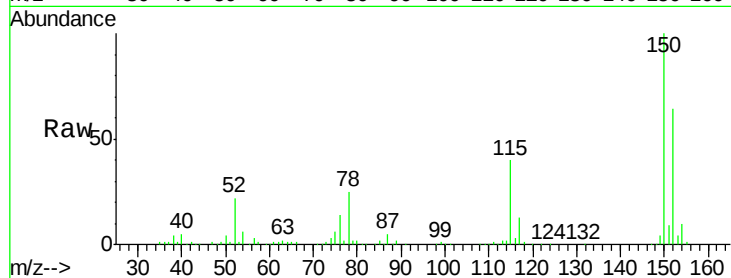


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

Instrument :
BNA_F
ClientSampleId :
WC-42-02

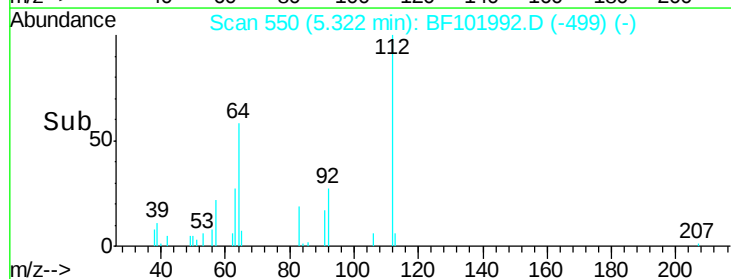
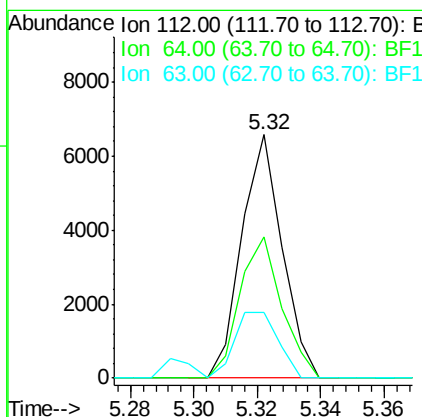
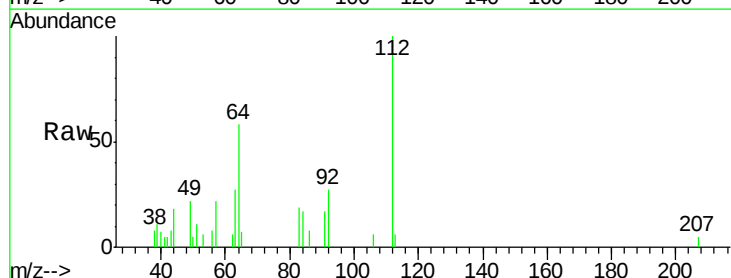
Tot Ion:152 Resp: 213474
Ion Ratio Lower Upper
152 100
150 156.6 124.6 186.8
115 62.4 50.1 75.1



#5

2-Fluorophenol
Concen: 0.384 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.00 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

Tgt Ion:112 Resp: 5803
Ion Ratio Lower Upper
112 100
64 58.3 47.9 71.9
63 26.9 23.7 35.5





#7

Phenol-d6

Concen: 0.413 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

Instrument :

BNA_F

ClientSampleId :

WC-42-02

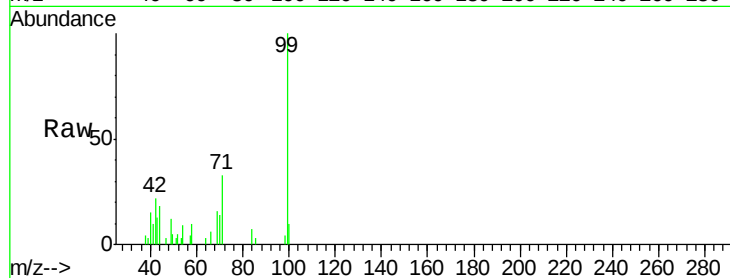
Tot Ion: 99 Resp: 7456

Ion Ratio Lower Upper

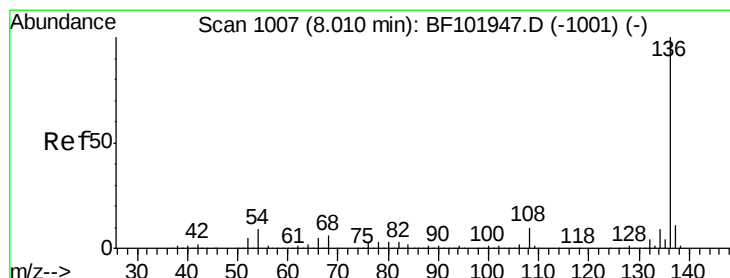
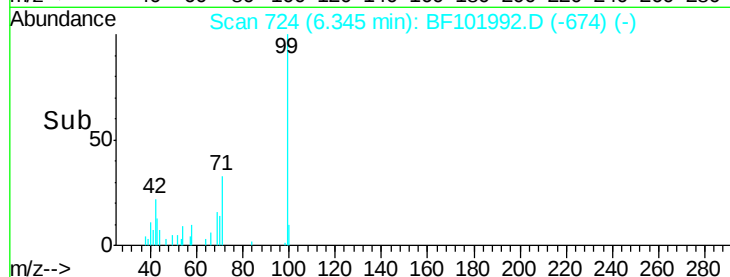
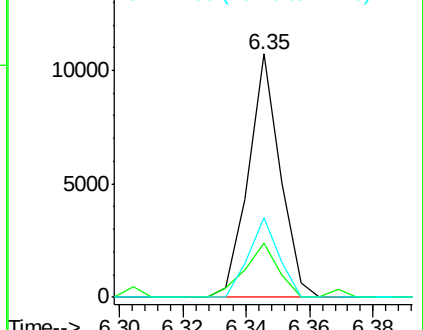
99 100

42 22.4 14.5 21.7#

71 32.8 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

Tgt Ion: 136 Resp: 891680

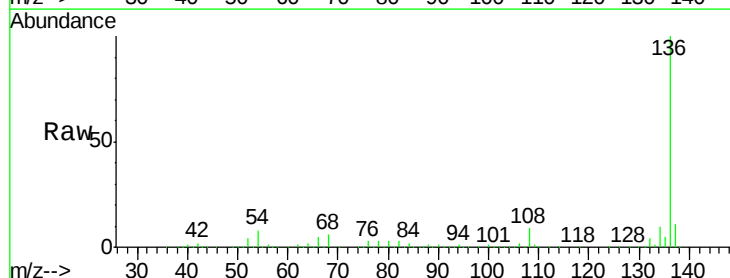
Ion Ratio Lower Upper

136 100

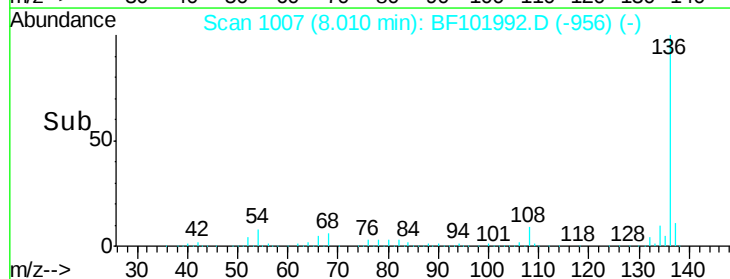
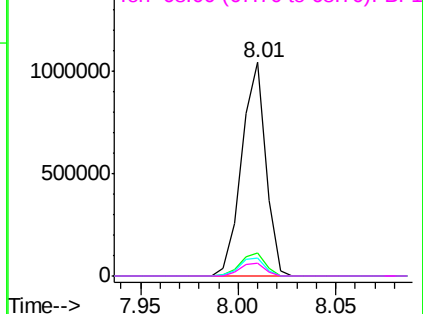
137 10.7 8.9 13.3

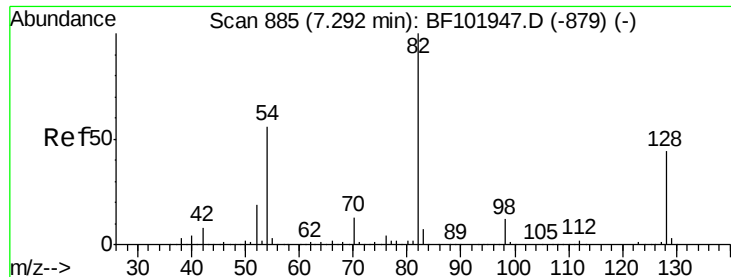
54 8.3 6.6 9.8

68 6.2 5.0 7.4



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): BF1
Ion 68.00 (67.70 to 68.70): BF1

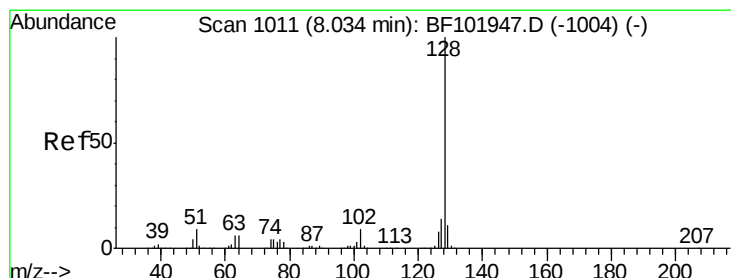
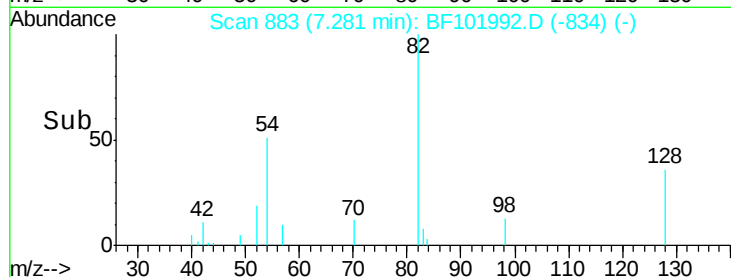
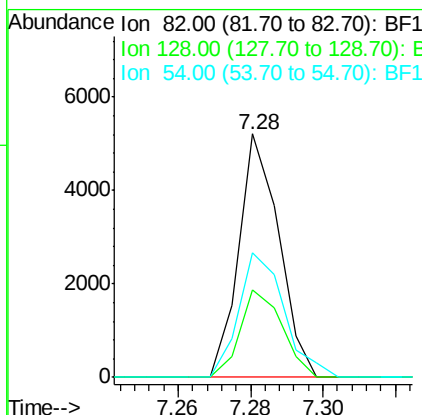
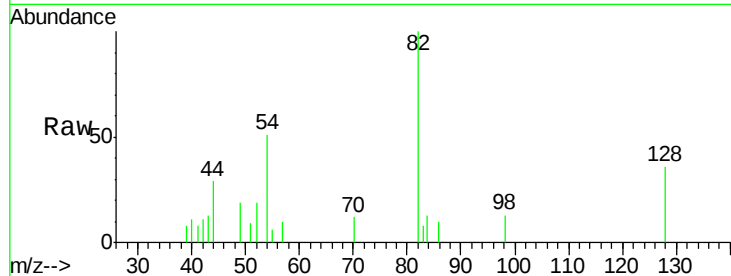




#23
Nitrobenzene-d5
Concen: 0.263 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

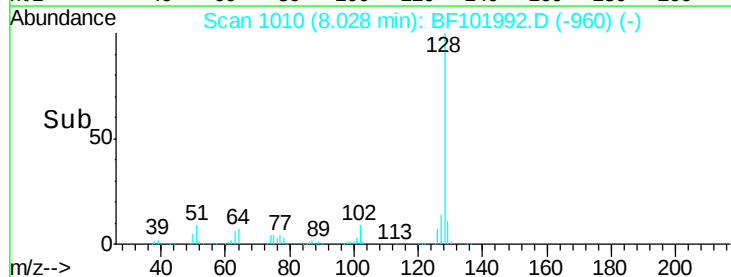
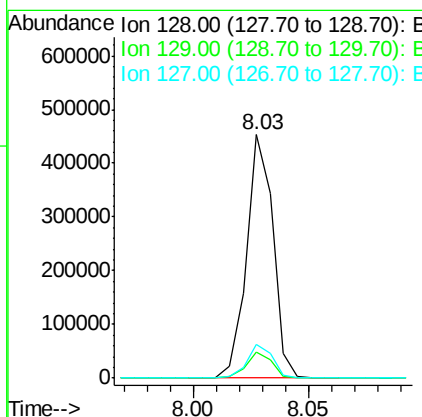
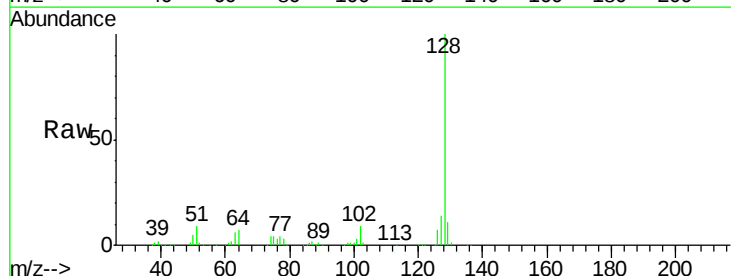
Instrument :
BNA_F
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WC-42-02

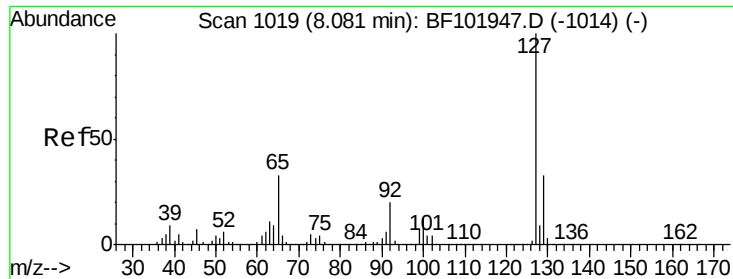
Tot Ion: 82 Resp: 3995
Ion Ratio Lower Upper
82 100
128 35.8 36.1 54.1#
54 51.0 41.4 62.2



#31
Naphthalene
Concen: 8.150 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

Tgt Ion: 128 Resp: 363134
Ion Ratio Lower Upper
128 100
129 10.6 8.8 13.2
127 13.6 10.9 16.3

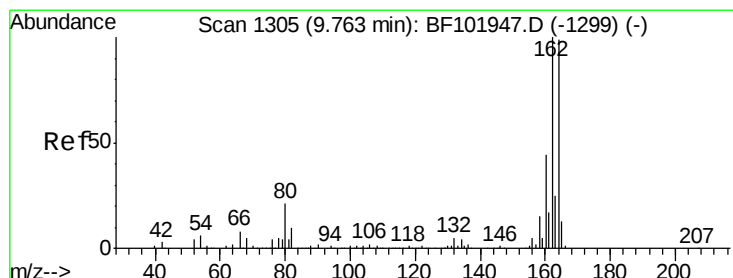
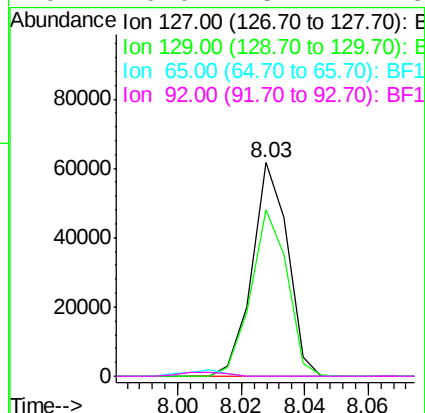
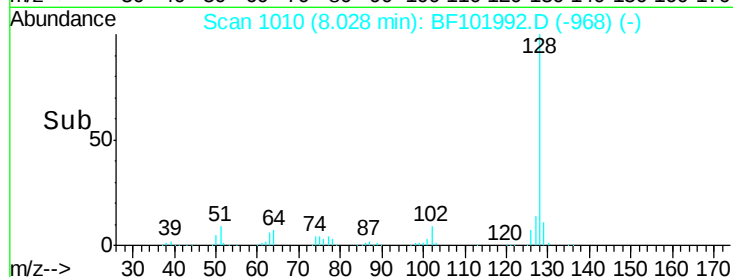
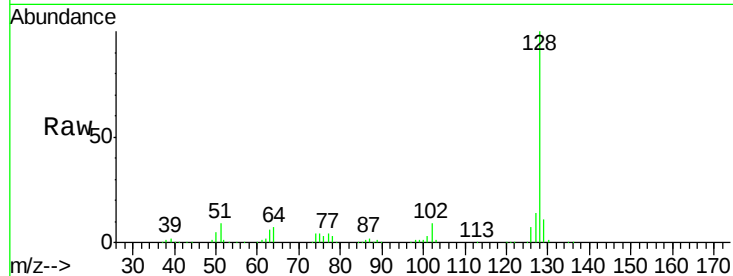




#33
4-Chloroaniline
Concen: 2.525 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.05 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

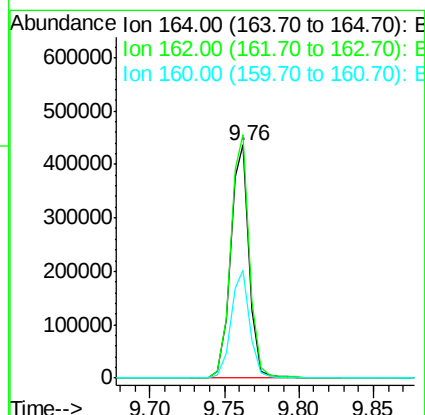
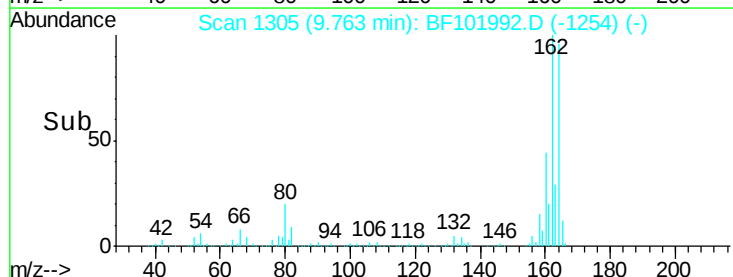
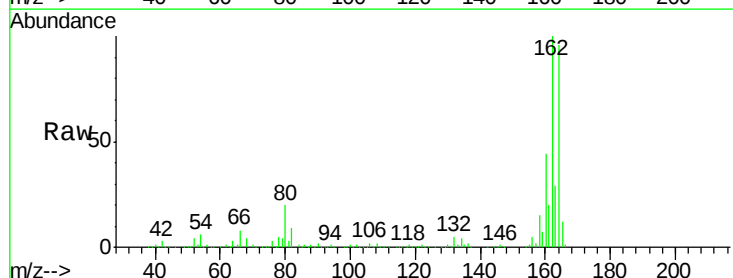
Instrument :
BNA_F
ClientSampleId :
WC-42-02

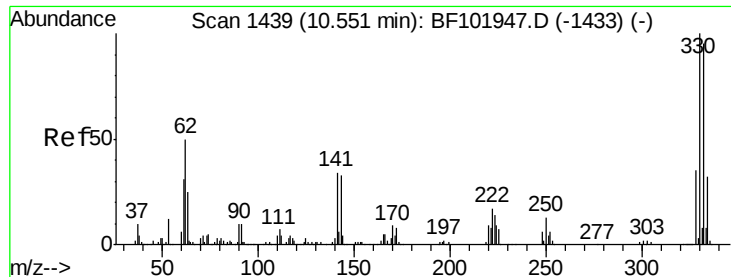
Tot Ion:	127	Resp:	48017
Ion	Ratio	Lower	Upper
127	100		
129	78.1	25.9	38.9#
65	0.0	25.0	37.4#
92	0.0	15.2	22.8#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

Tgt Ion:	164	Resp:	386137
Ion	Ratio	Lower	Upper
164	100		
162	104.4	86.1	129.1
160	46.3	38.3	57.5

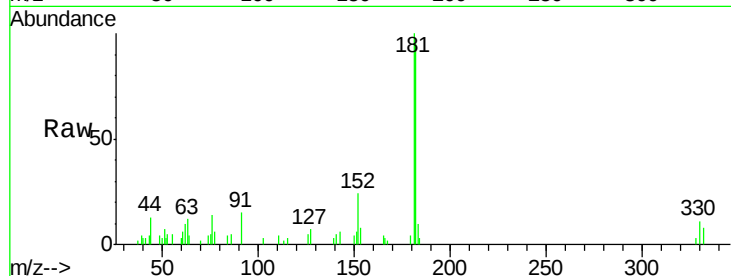




#41
 2,4,6-Tribromophenol
 Concen: 0.342 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF101992.D
 Acq: 10 Jan 2018 21:16

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-02

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.2	77.0	115.6
141	38.5	29.9	44.9

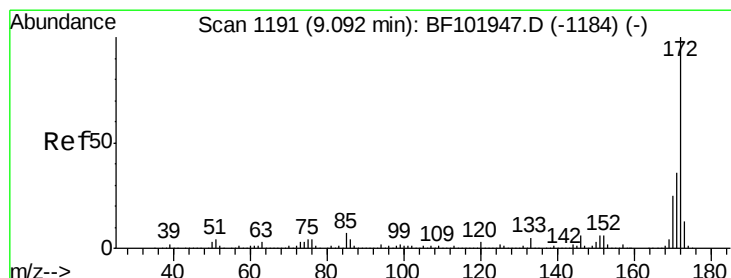
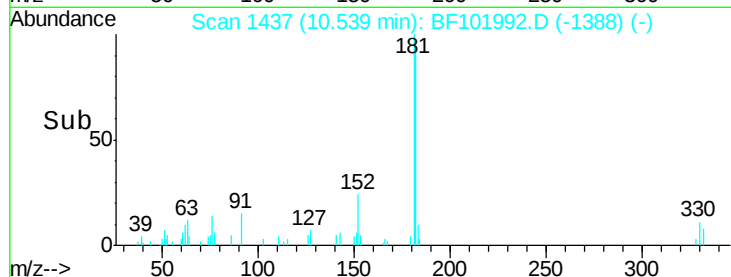
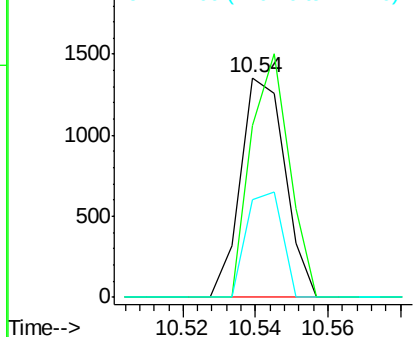


Abundance

Ion 329.80 (329.50 to 330.50): E

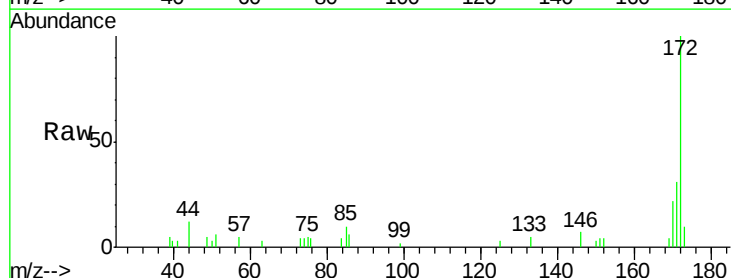
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 0.358 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF101992.D
 Acq: 10 Jan 2018 21:16

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.2	29.7	44.5
170	22.1	19.6	29.4

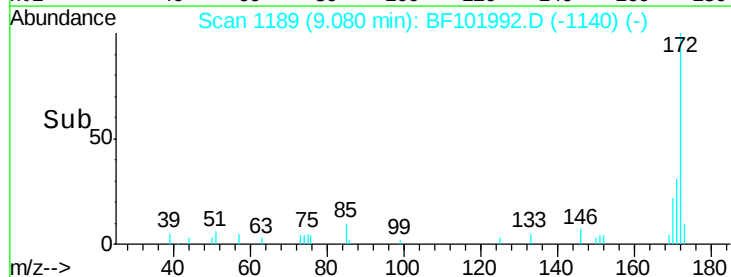
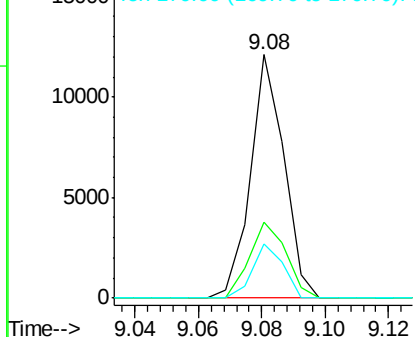


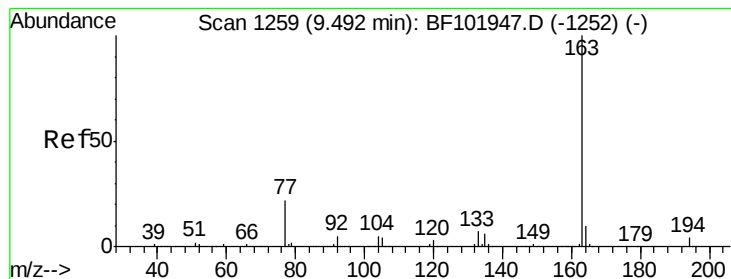
Abundance

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





#49

Dimethylphthalate

Concen: 3.529 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.27 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

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ClientSampleId :

WC-42-02

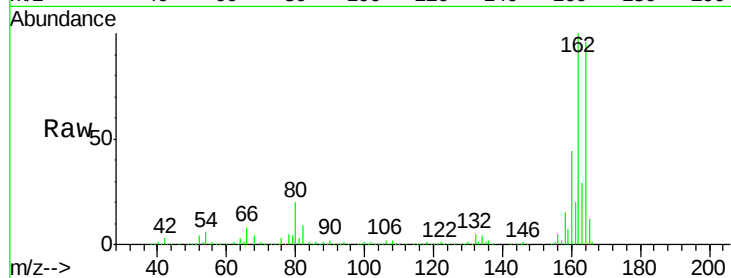
Tot Ion:163 Resp: 109308

Ion Ratio Lower Upper

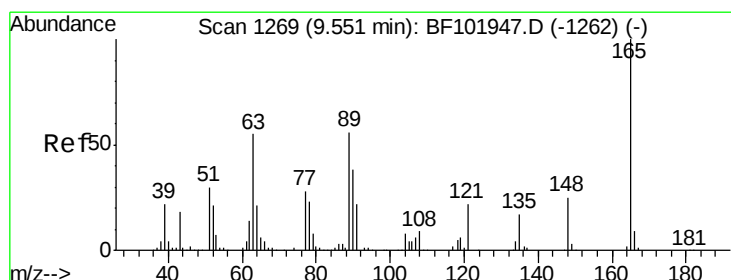
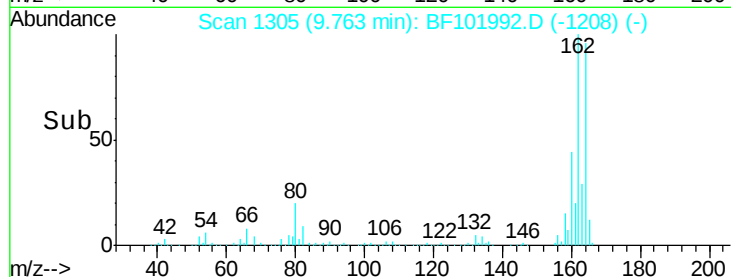
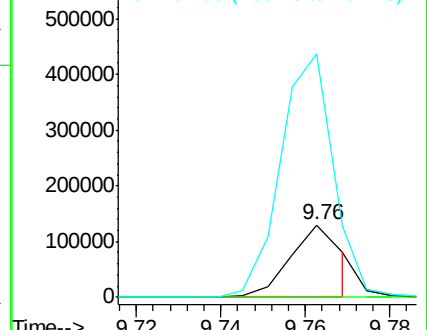
163 100

194 0.0 2.7 4.1#

164 335.1 8.2 12.2#



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.129 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.21 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

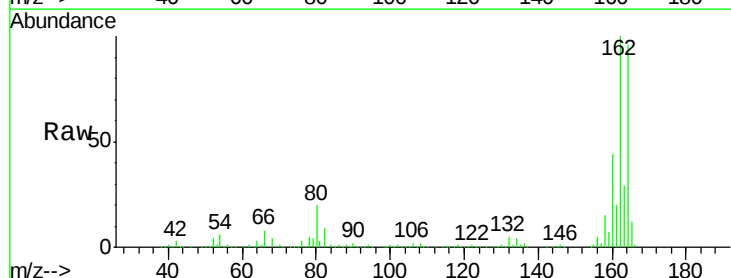
Tgt Ion:165 Resp: 50301

Ion Ratio Lower Upper

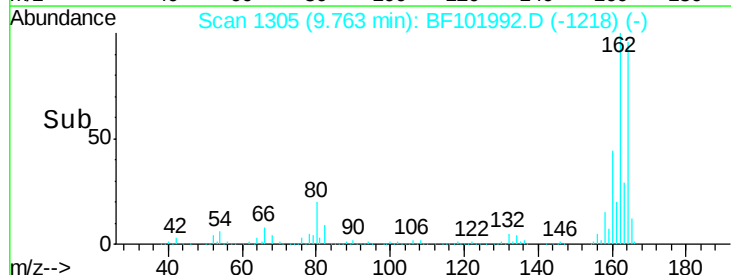
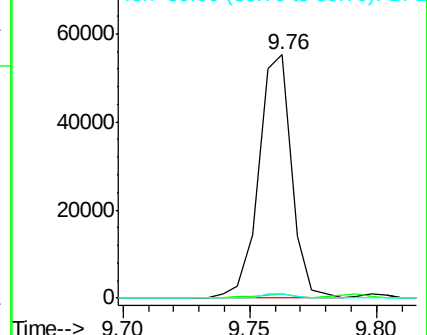
165 100

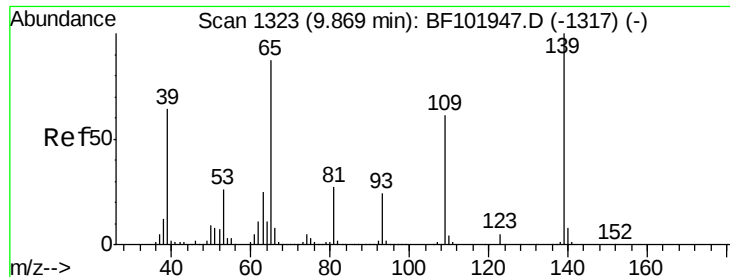
63 1.8 44.7 67.1#

89 1.6 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

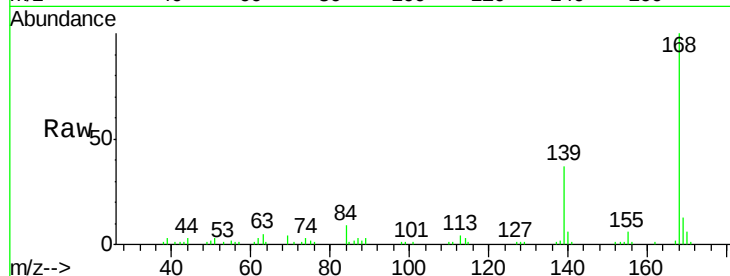




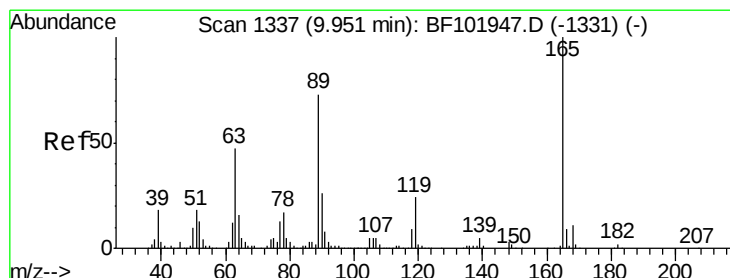
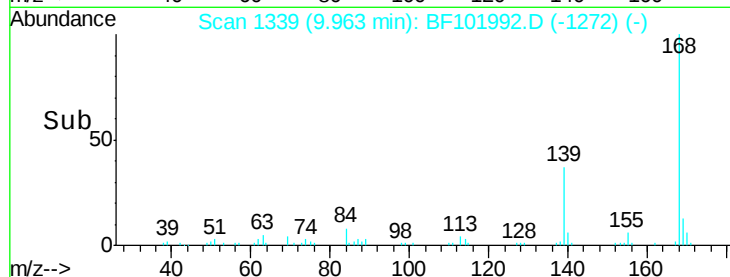
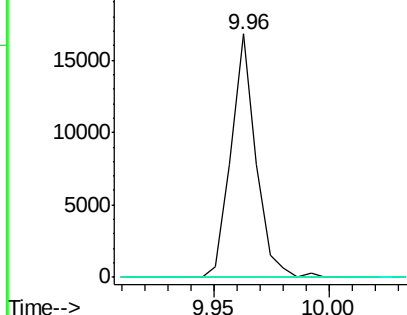
#55
4-Nitrophenol
Concen: 2.159 ng
RT: 9.96 min Scan# 1339
Delta R.T. 0.09 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

Instrument :
BNA_F
ClientSampleId :
WC-42-02

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	48.4	88.4#
65	0.0	72.6	112.6#



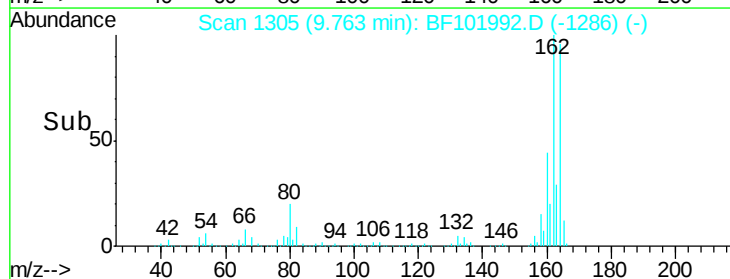
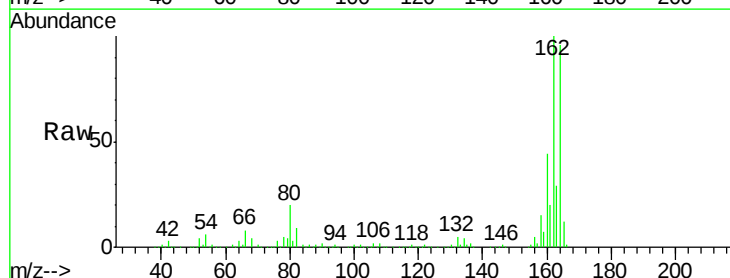
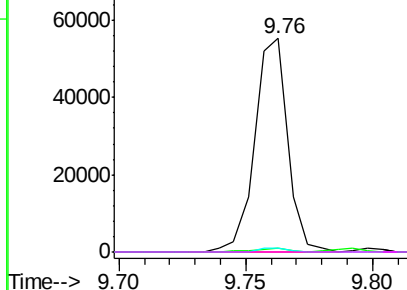
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

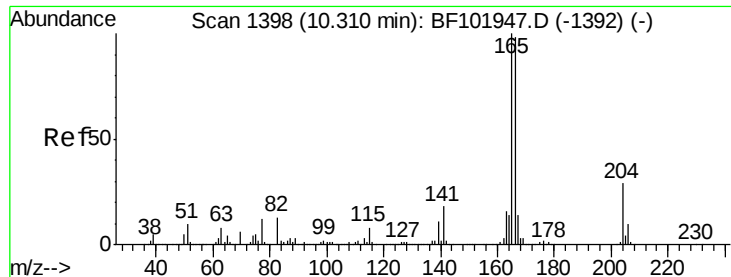


#56
2,4-Dinitrotoluene
Concen: 6.486 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.19 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.8	36.4	54.6#
89	1.6	57.8	86.6#
182	0.0	1.6	2.4#

Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

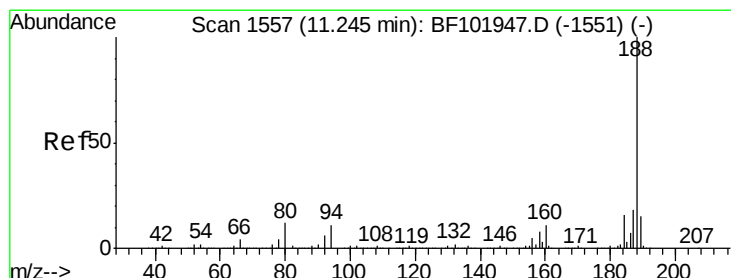
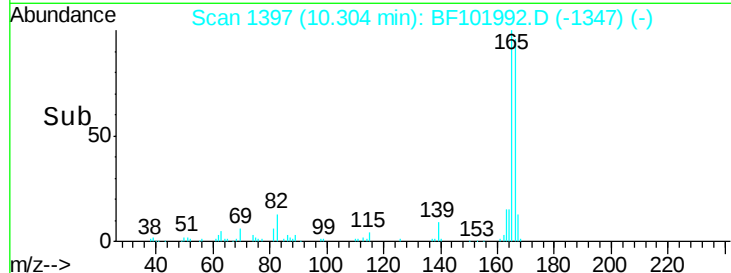
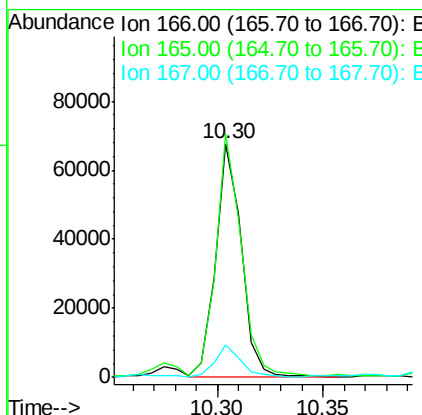
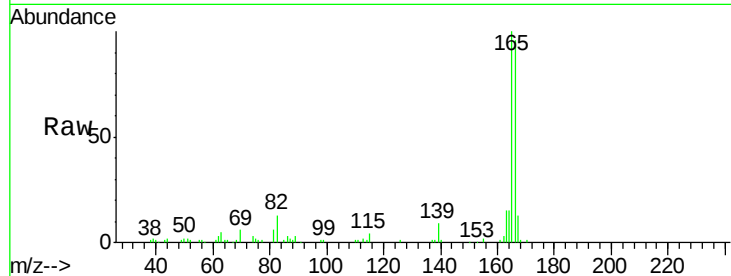




#57
Fluorene
 Concen: 2.372 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF101992.D
 Acq: 10 Jan 2018 21:16

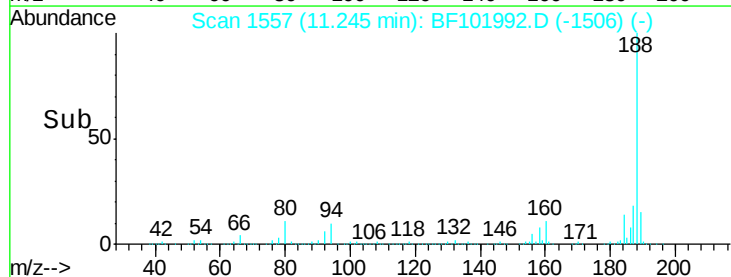
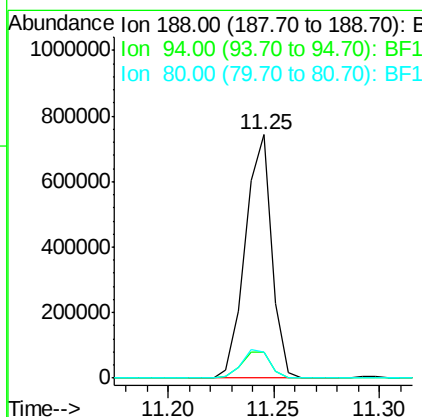
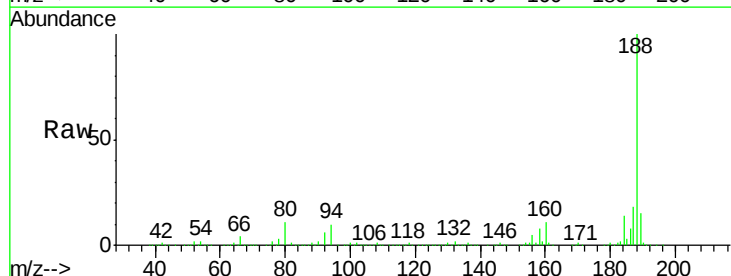
Instrument :
 BNA_F
 ClientSampleId :
 WC-42-02

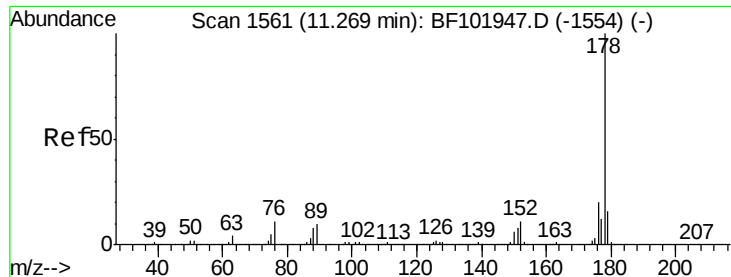
Tot Ion	Ratio	Lower	Upper
166	100		
165	104.2	79.8	119.8
167	13.6	10.6	16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. -0.00 min
 Lab File: BF101992.D
 Acq: 10 Jan 2018 21:16

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.5	12.7
80	10.9	9.2	13.8

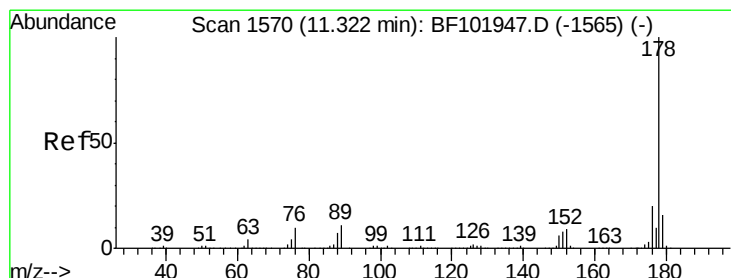
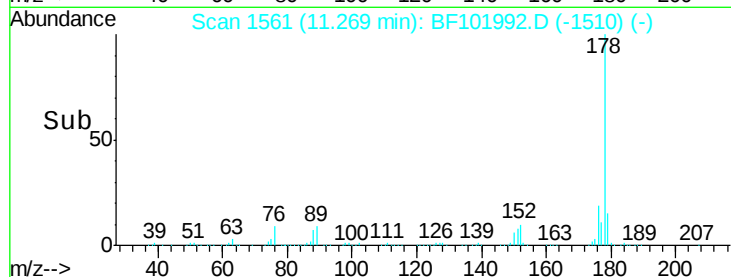
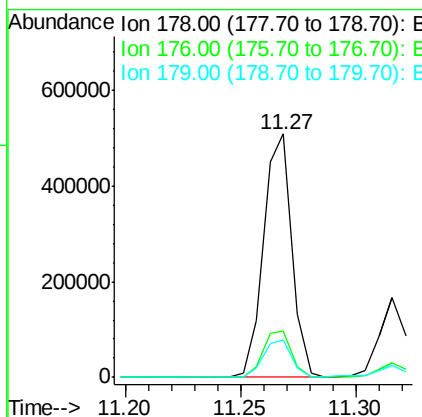
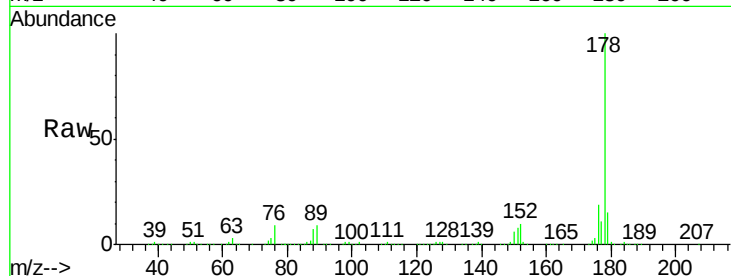




#70
Phenanthrene
Concen: 11.524 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.00 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

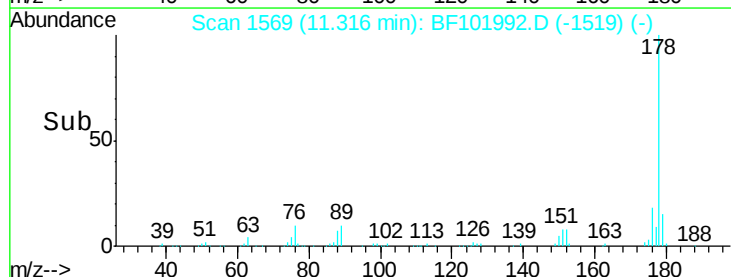
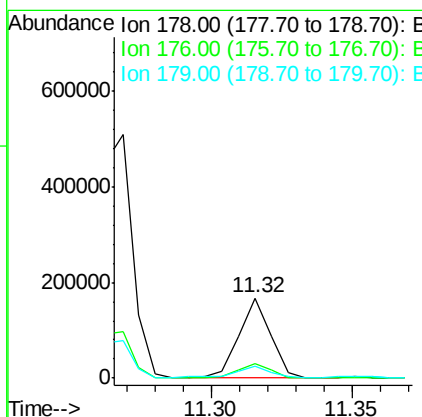
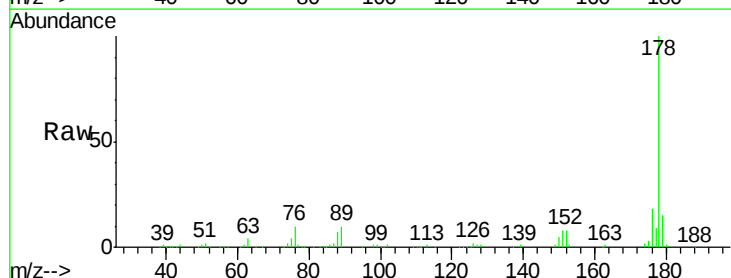
Instrument :
BNA_F
ClientSampleId :
WC-42-02

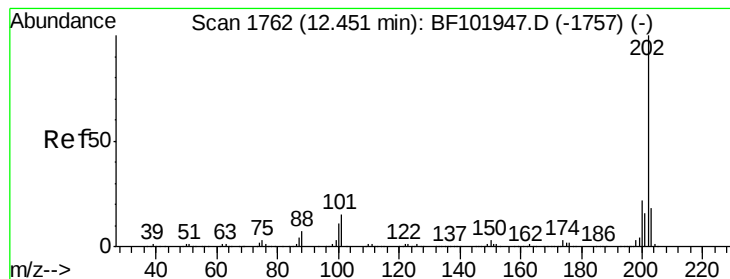
Tot Ion:178 Resp: 434429
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 15.4 13.0 19.6



#71
Anthracene
Concen: 3.349 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

Tgt Ion:178 Resp: 128057
Ion Ratio Lower Upper
178 100
176 18.4 15.4 23.2
179 15.0 12.6 19.0





#74

Fluoranthene

Concen: 12.572 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

Instrument :

BNA_F

ClientSampleId :

WC-42-02

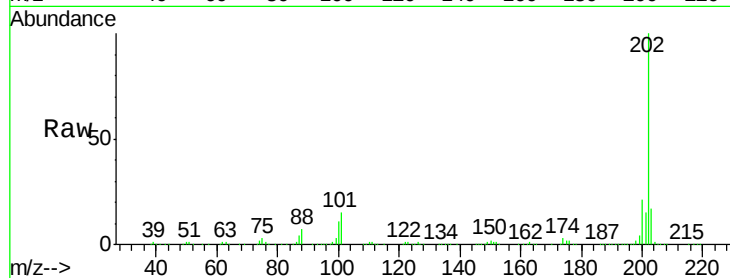
Tot Ion:202 Resp: 466323

Ion Ratio Lower Upper

202 100

101 14.8 0.0 34.1

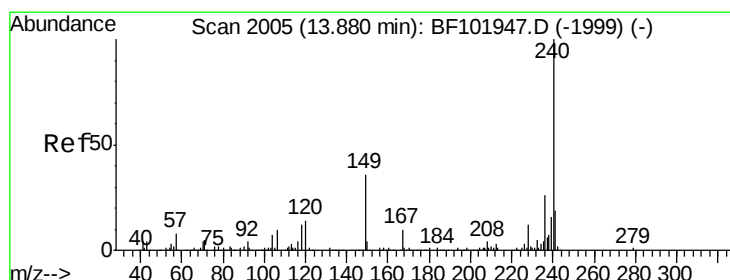
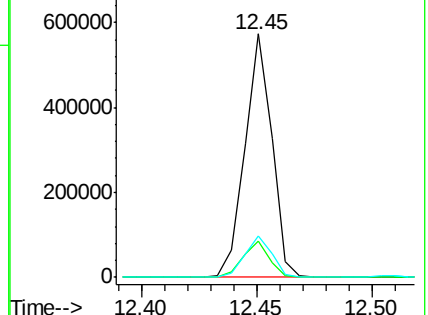
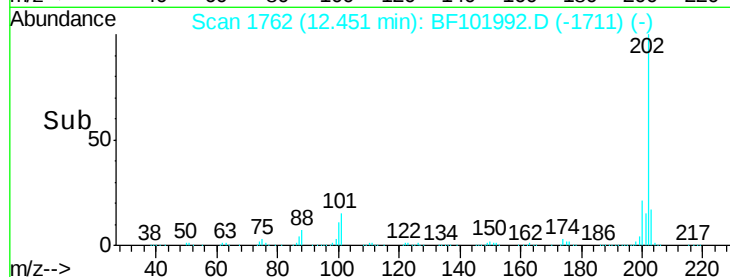
203 17.2 0.0 38.1



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: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

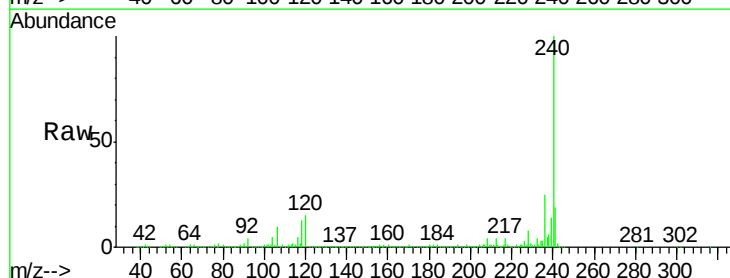
Tgt Ion:240 Resp: 385265

Ion Ratio Lower Upper

240 100

120 14.6 9.5 14.3#

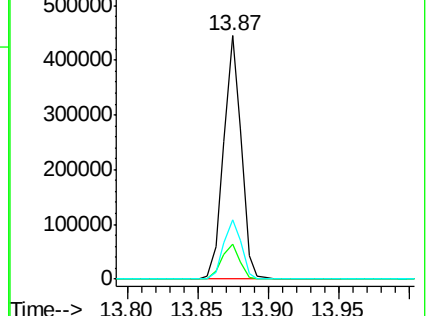
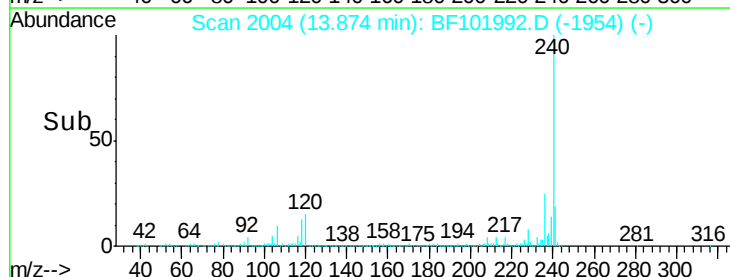
236 24.5 20.7 31.1

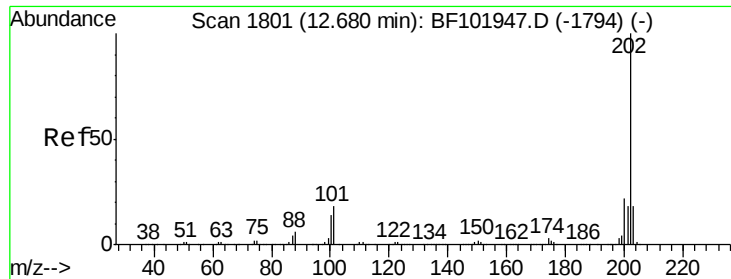


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

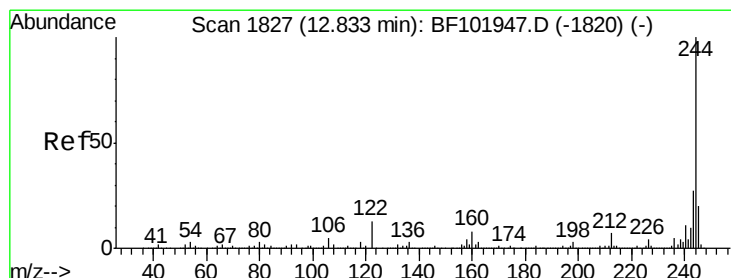
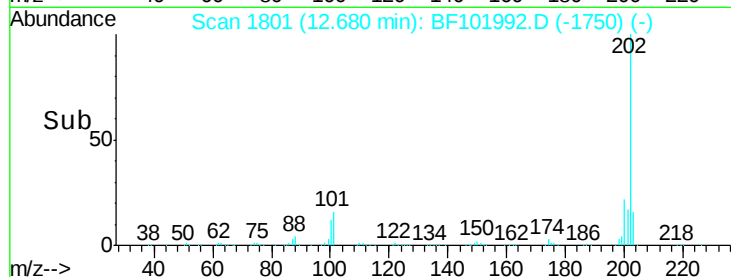
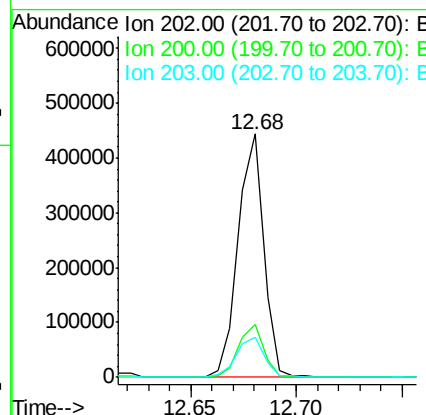
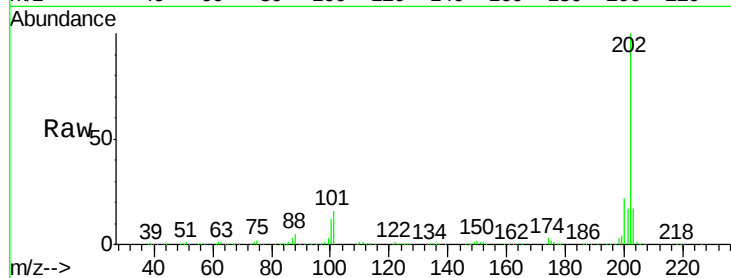




#77
Pvrene
Concen: 10.876 ng
RT: 12.68 min Scan# 1801
Delta R.T. -0.00 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

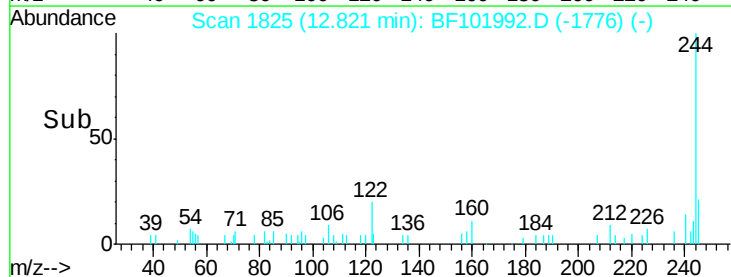
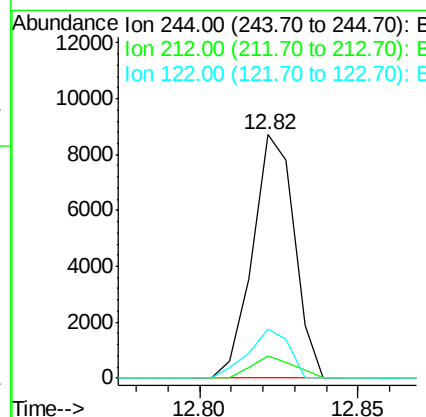
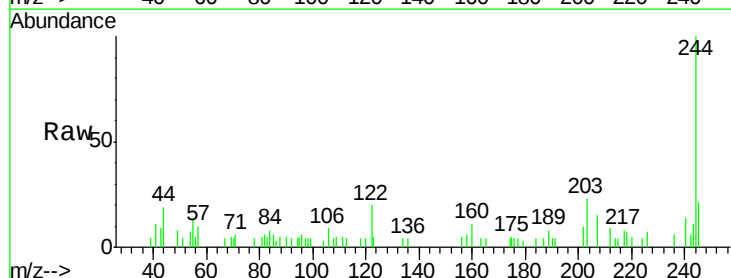
Instrument :
BNA_F
ClientSampleId :
WC-42-02

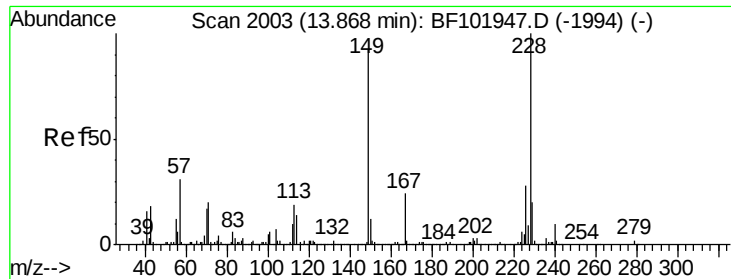
Tot Ion:202 Resp: 370395
Ion Ratio Lower Upper
202 100
200 21.7 17.4 26.2
203 16.6 14.3 21.5



#78
Terphenyl-d14
Concen: 0.430 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF101992.D
Acq: 10 Jan 2018 21:16

Tgt Ion:244 Resp: 7975
Ion Ratio Lower Upper
244 100
212 8.9 5.4 8.0#
122 25.1 11.0 16.4#





#80

Benzo(a)anthracene

Concen: 5.001 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.03 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

Instrument :

BNA_F

ClientSampleId :

WC-42-02

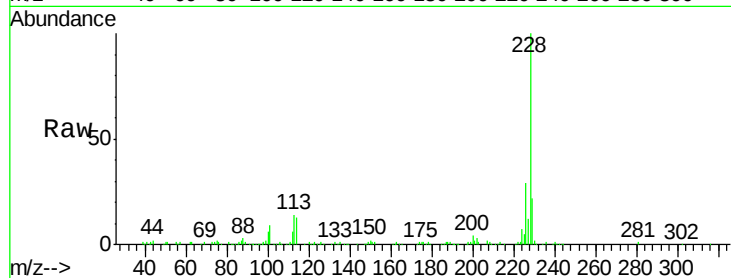
Tot Ion:228 Resp: 122940

Ion Ratio Lower Upper

228 100

226 29.4 22.6 33.8

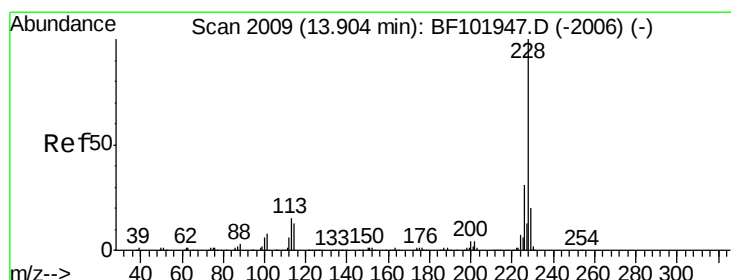
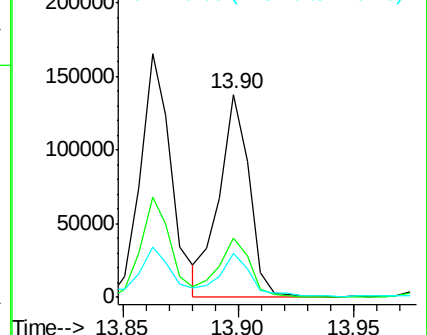
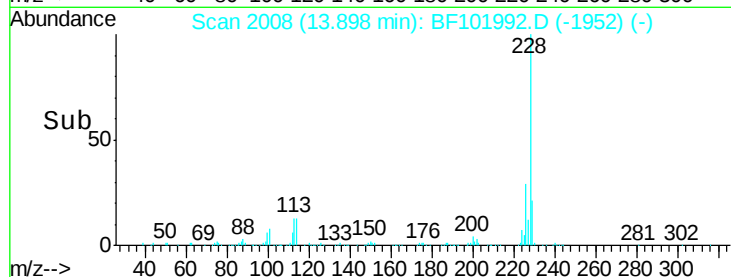
229 21.6 15.8 23.6



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



#82

Chrysene

Concen: 4.796 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

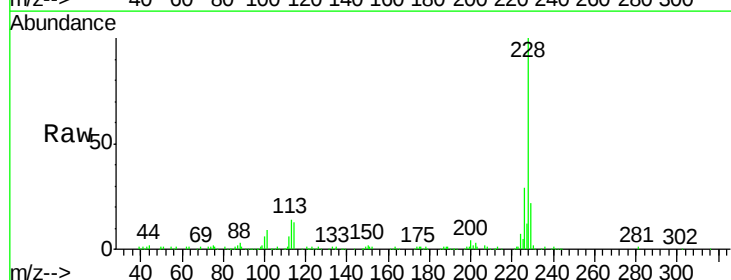
Tgt Ion:228 Resp: 122940

Ion Ratio Lower Upper

228 100

226 29.4 25.0 37.6

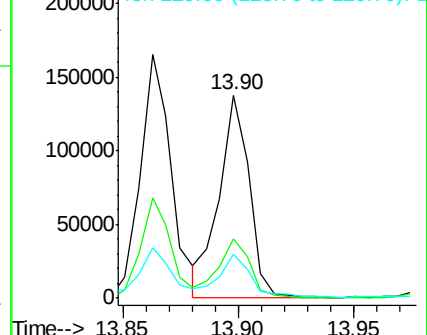
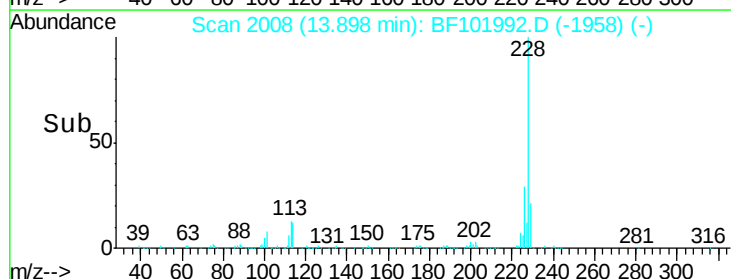
229 21.6 16.2 24.4

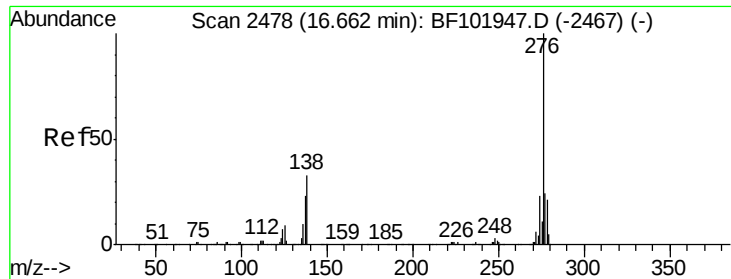


Abundance Ion 228.00 (227.70 to 228.70): E

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: 3.705 ng

RT: 16.66 min Scan# 2477

Delta R.T. -0.01 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

Instrument :

BNA_F

ClientSampleId :

WC-42-02

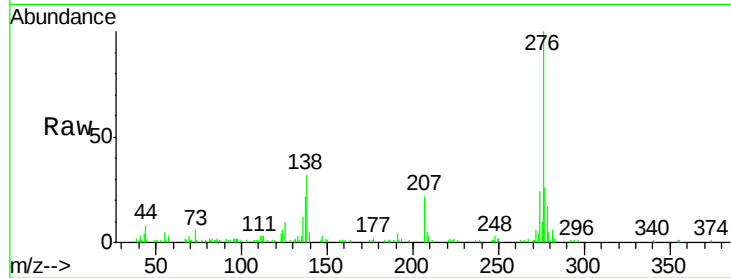
Tot Ion:276 Resp: 69126

Ion Ratio Lower Upper

276 100

138 33.7 25.0 37.6

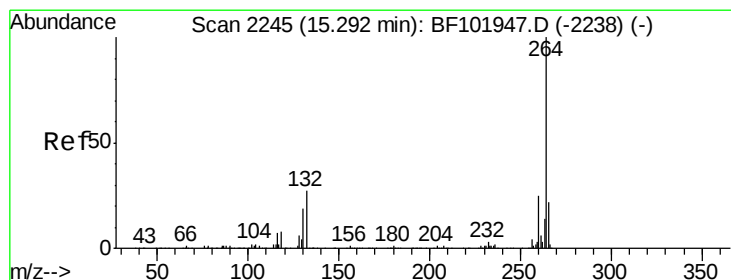
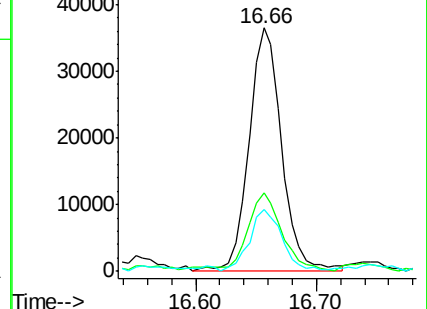
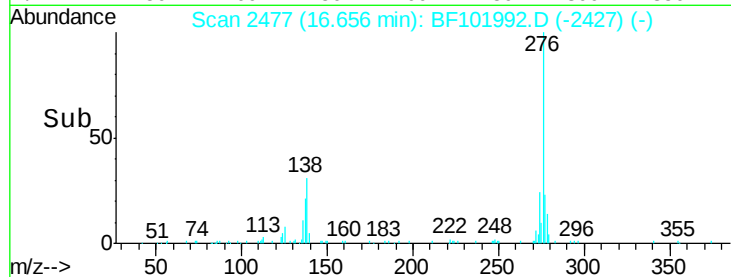
277 25.5 20.1 30.1



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: 20.000 ng

RT: 15.29 min Scan# 2245

Delta R.T. -0.00 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

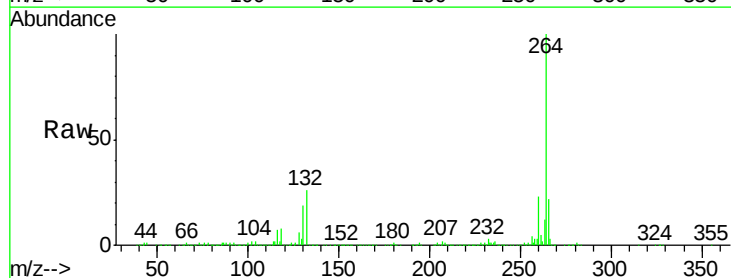
Tgt Ion:264 Resp: 378781

Ion Ratio Lower Upper

264 100

260 23.2 19.2 28.8

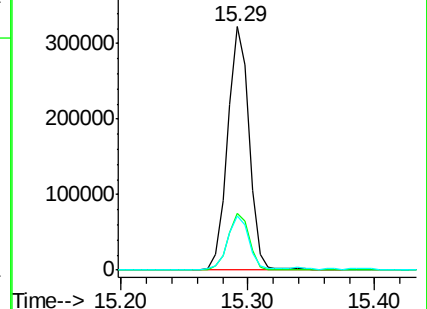
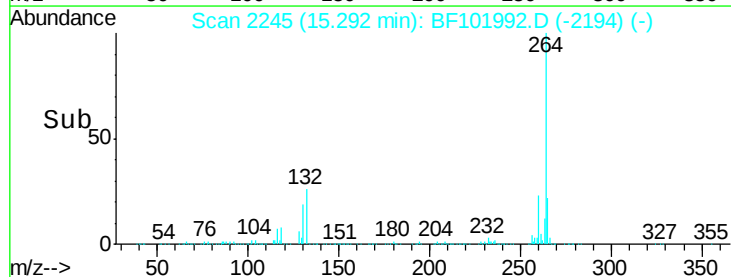
265 22.3 17.5 26.3

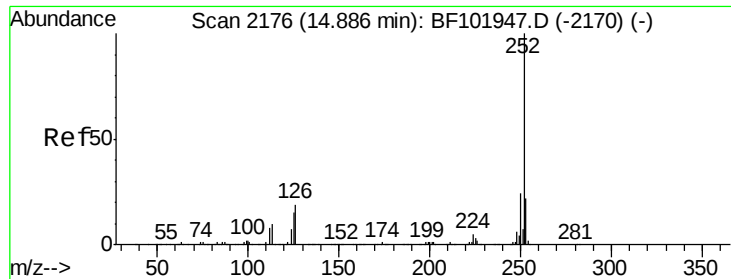


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 8.046 ng

RT: 14.89 min Scan# 2176

Delta R.T. -0.00 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

Instrument :

BNA_F

ClientSampleId :

WC-42-02

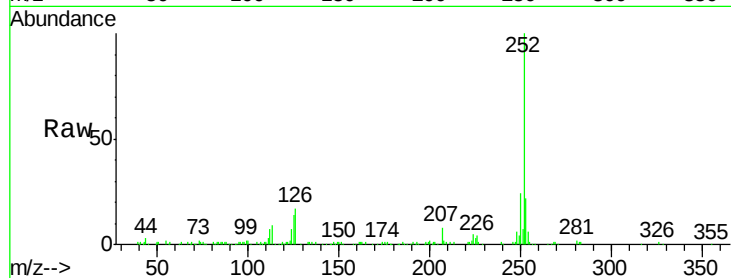
Tot Ion:252 Resp: 198709

Ion Ratio Lower Upper

252 100

253 22.5 17.0 25.6

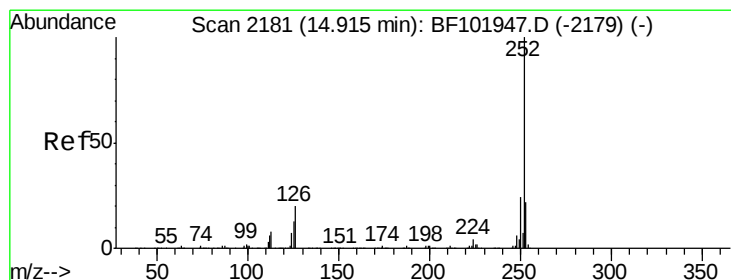
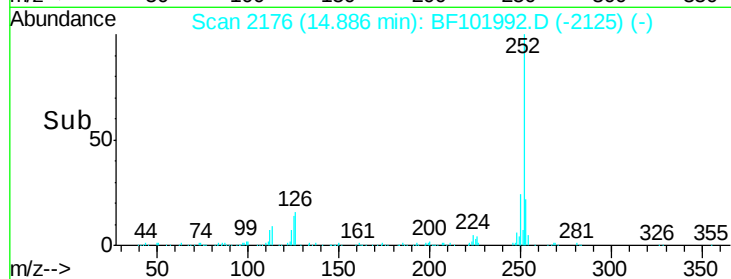
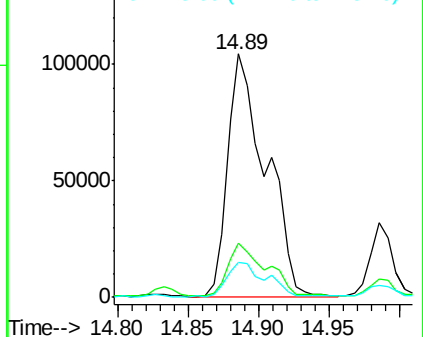
125 14.4 9.0 13.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 8.340 ng

RT: 14.89 min Scan# 2176

Delta R.T. -0.03 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

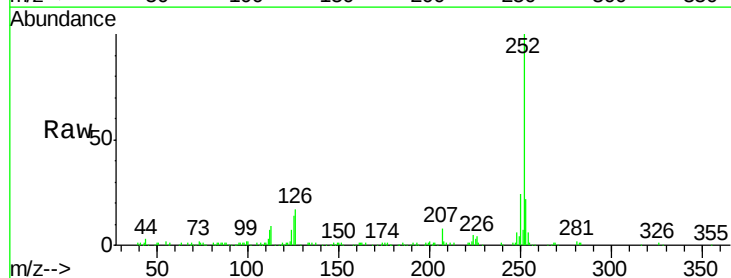
Tgt Ion:252 Resp: 198709

Ion Ratio Lower Upper

252 100

253 22.5 17.9 26.9

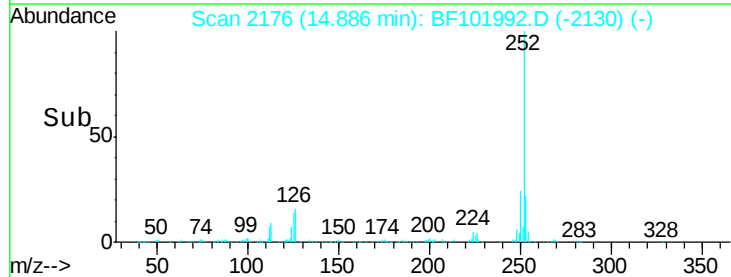
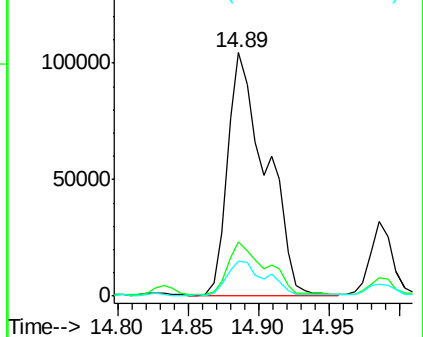
125 14.4 10.2 15.2

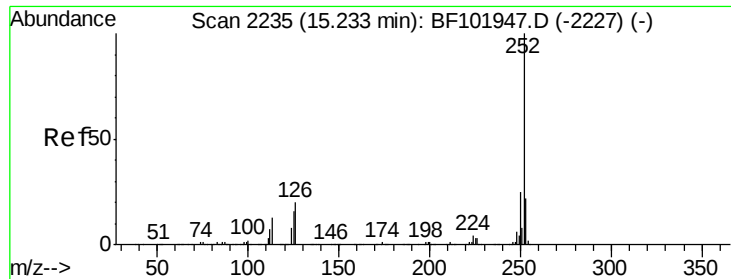


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.834 ng

RT: 15.23 min Scan# 2235

Delta R.T. -0.00 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

Instrument :

BNA_F

ClientSampleId :

WC-42-02

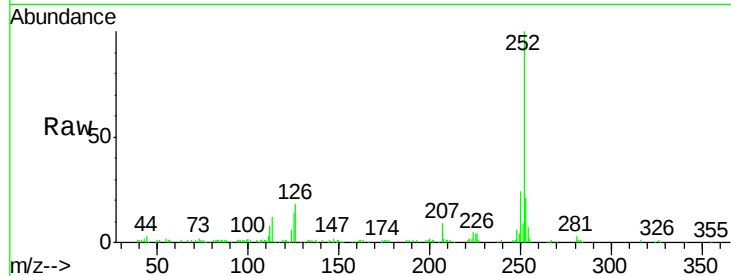
Tot Ion:252 Resp: 107444

Ion Ratio Lower Upper

252 100

253 21.3 17.1 25.7

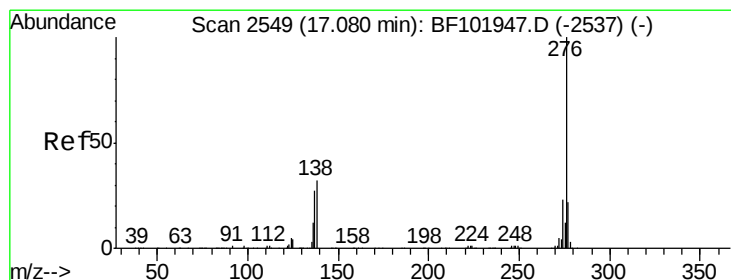
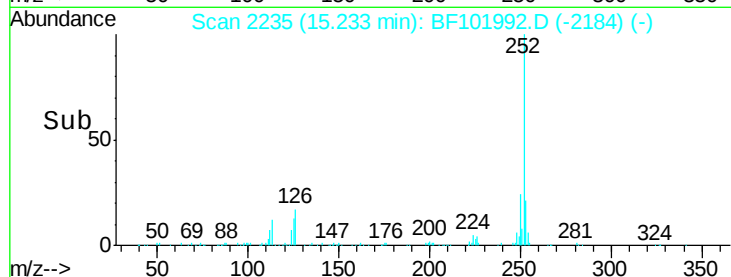
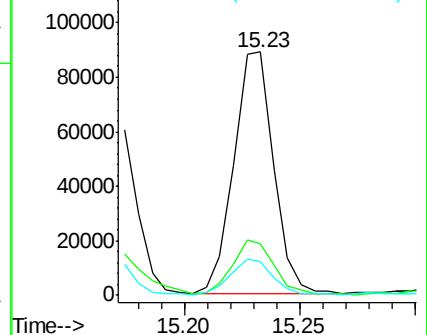
125 13.8 9.8 14.6



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



#91

Benzo(g,h,i)perylene

Concen: 3.442 ng

RT: 17.07 min Scan# 2547

Delta R.T. -0.01 min

Lab File: BF101992.D

Acq: 10 Jan 2018 21:16

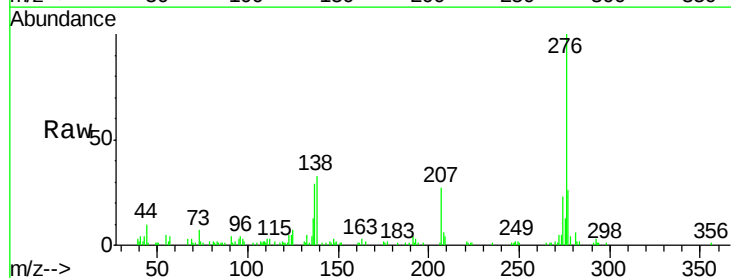
Tgt Ion:276 Resp: 61491

Ion Ratio Lower Upper

276 100

277 26.1 17.9 26.9

138 33.3 21.8 32.8#



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

