

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032818\
 Data File : BF104013.D
 Acq On : 28 Mar 2018 16:45
 Operator : JU/SJ
 Sample : J2075-03 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW-103(2-3)

Manual Integrations
 APPROVED

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 3/29/2018 5:36:18 PM

Quant Time: Mar 28 18:02:21 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 28 13:41:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	134191	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	489653	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	248151	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	354380	20.00	ng	0.00
75) Chrysene-d12	14.16	240	224694	20.00	ng	0.00
86) Perylene-d12	15.70	264	283565	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	306618	36.44	ng	0.00
7) Phenol-d6	6.60	99	393487	38.01	ng	0.00
23) Nitrobenzene-d5	7.53	82	226675	28.31	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	89504	32.39	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	439881	27.95	ng	0.00
78) Terphenyl-d14	13.09	244	294606	30.27	ng	0.00
Target Compounds						
22) Acetophenone	7.37	105	133695	11.285	ng	Qvalue # 98
31) Naphthalene	8.29	128	5327226	222.699	ng	98
37) 2-Methylnaphthalene	8.96	142	1118593m	70.990	ng	
45) 1,1'-Biphenyl	9.42	154	307533	14.439	ng	99
48) Acenaphthylene	9.87	152	336049	13.203	ng	99
49) Dimethylphthalate	9.71	163	43777	2.234	ng	# 66
51) Acenaphthene	10.04	154	176100	11.960	ng	98
54) Dibenzofuran	10.21	168	668241	31.080	ng	99
57) Fluorene	10.56	166	873222	49.235	ng	99
70) Phenanthrene	11.54	178	2574078	134.161	ng	99
71) Anthracene	11.59	178	1015458	50.669	ng	99
72) Carbazole	11.74	167	273926	14.321	ng	98
74) Fluoranthene	12.74	202	2010000	98.557	ng	98
77) Pyrene	12.97	202	1862046	115.281	ng	99
80) Benzo(a)anthracene	14.15	228	1020866	72.611	ng	98
82) Chrysene	14.19	228	876968	63.684	ng	97
85) Indeno(1,2,3-cd)pyrene	17.30	276	546493m	38.297	ng	
87) Benzo(b)fluoranthene	15.25	252	1139470m	66.028	ng	
88) Benzo(k)fluoranthene	15.27	252	338687m	20.834	ng	
89) Benzo(a)pyrene	15.64	252	837925	52.395	ng	97
90) Dibenzo(a,h)anthracene	17.30	278	152725	10.329	ng	95
91) Benzo(g,h,i)perylene	17.79	276	486694	32.863	ng	96

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

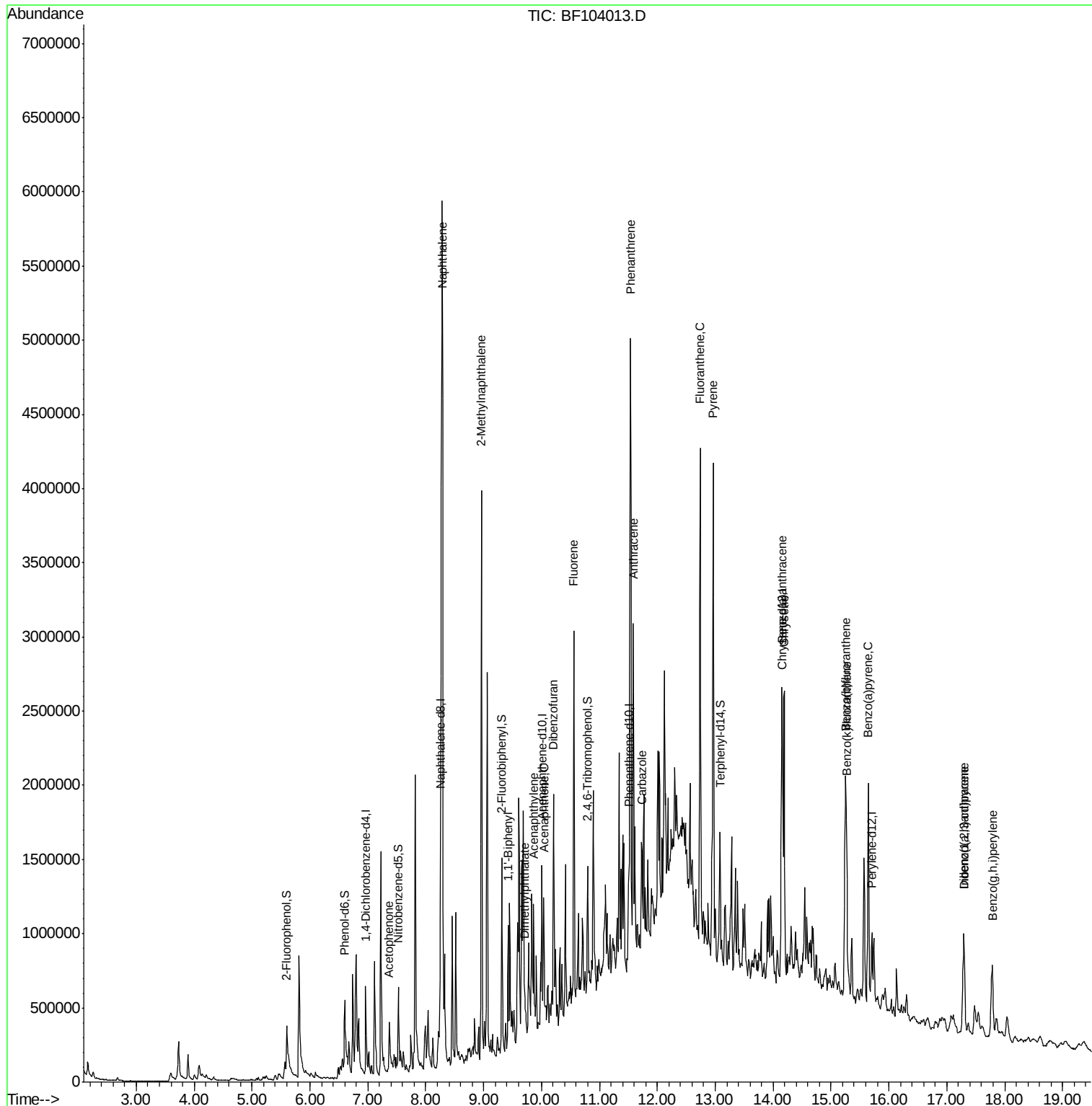
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032818\
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#1

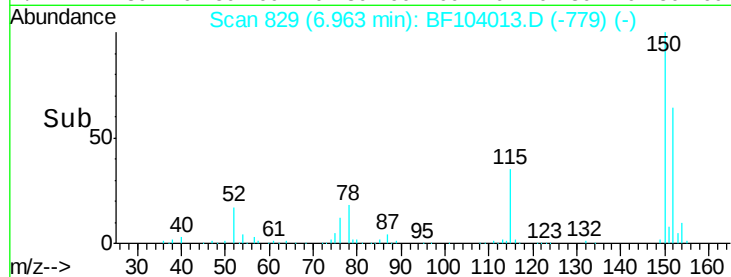
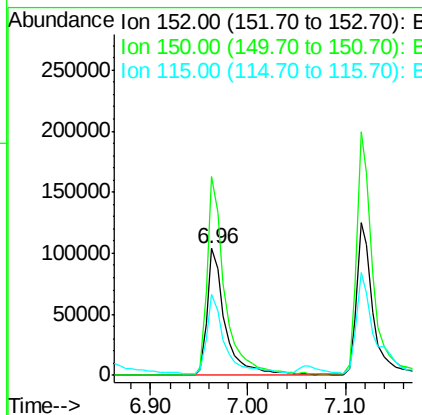
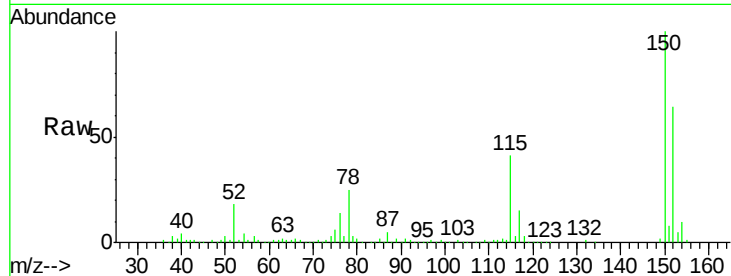
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 829
Delta R.T. -0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.6	186.8
115	63.7	50.1	75.1

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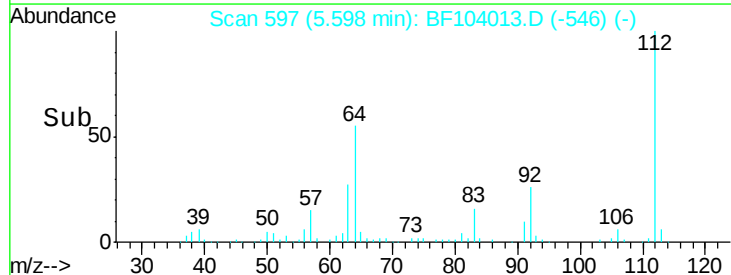
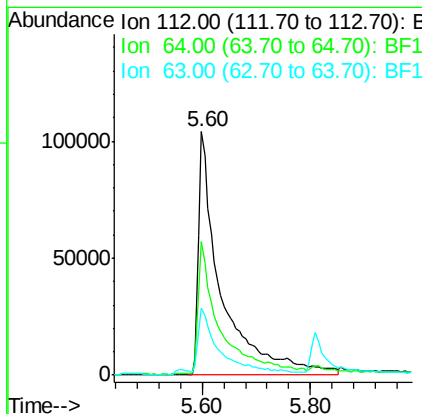
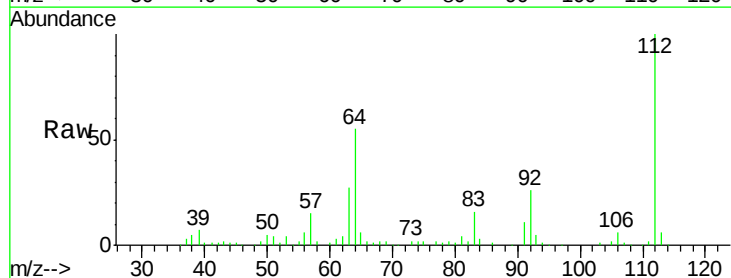
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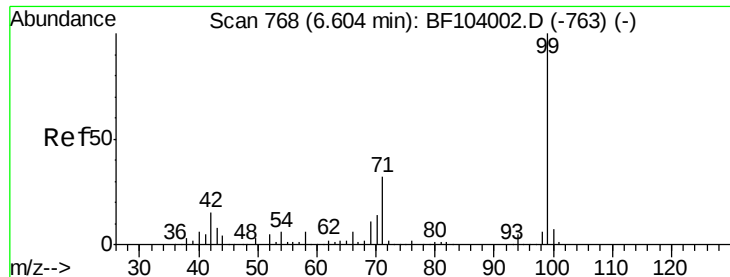


#5

2-Fluorophenol
Concen: 36.439 ng
RT: 5.60 min Scan# 597
Delta R.T. -0.00 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	47.9	71.9
63	27.4	23.7	35.5





#7

Phenol-d6

Concen: 38.009 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.01 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Instrument :

BNA_F

ClientSampleId :

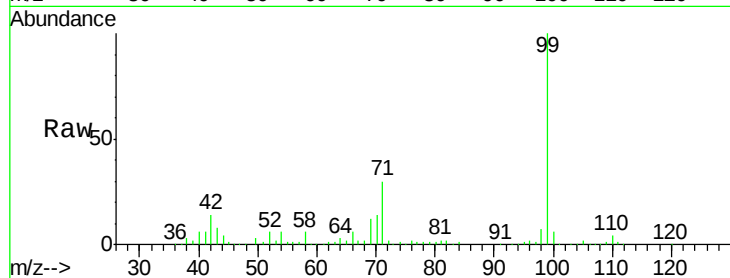
MW-103(2-3)

Tot Ion: 99 Resp: 393487

Ion	Ratio	Lower	Upper
99	100		
42	14.3	14.5	21.7#
71	30.4	25.4	38.0

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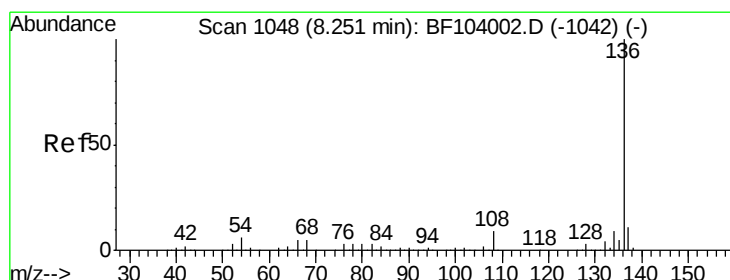
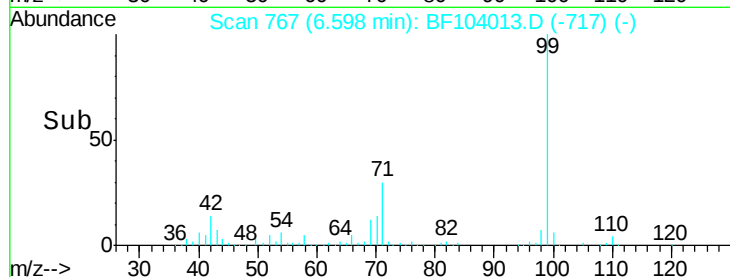
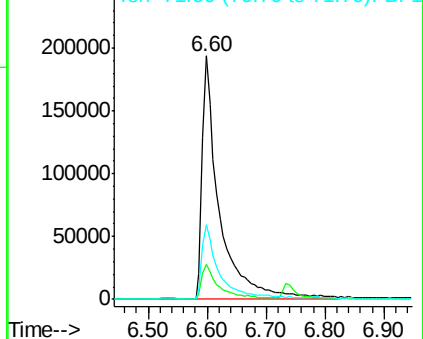
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.25 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Tgt Ion: 136 Resp: 489653

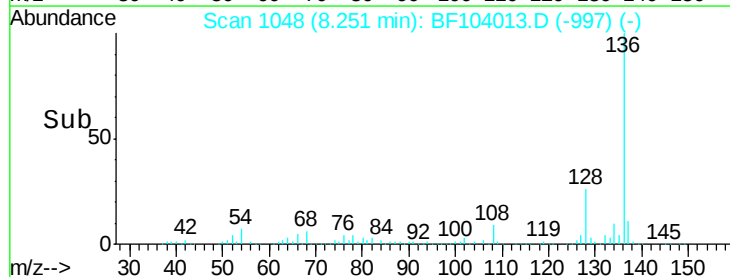
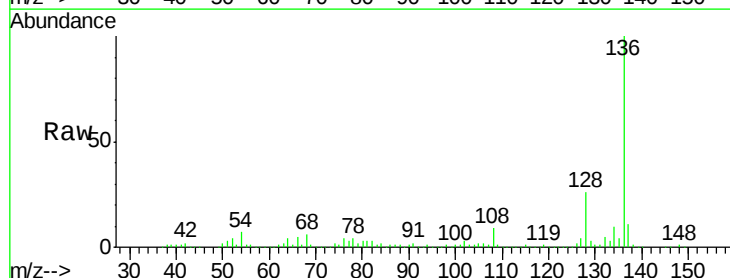
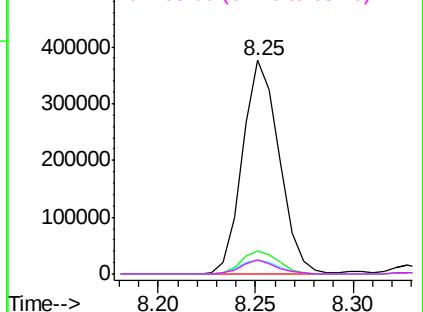
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	6.8	6.6	9.8
68	6.3	5.0	7.4

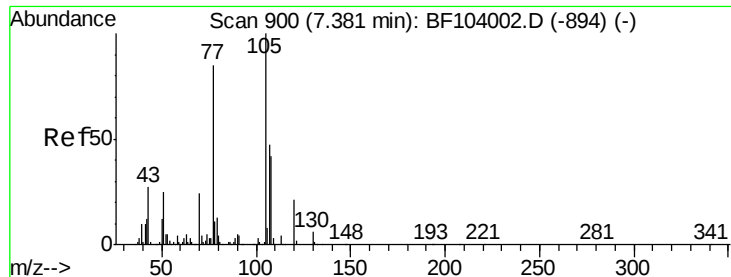
Abundance Ion 136.00 (135.70 to 136.70): E

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





#22

Acetophenone

Concen: 11.285 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Instrument :

BNA_F

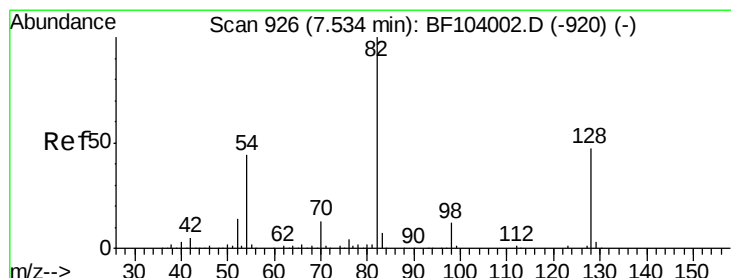
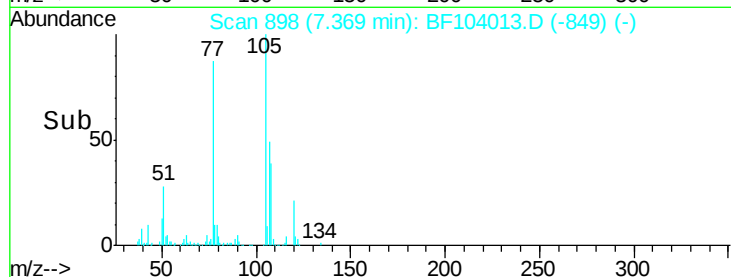
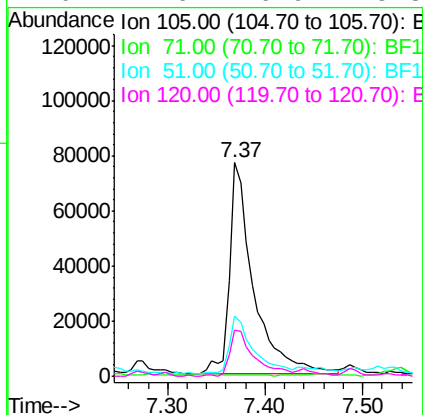
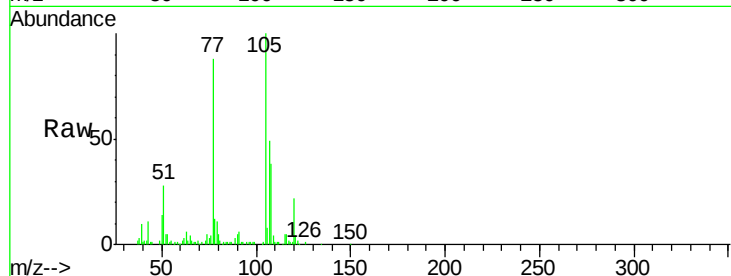
ClientSampleId :

MW-103(2-3)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100			
71	71	0.7	4.4	6.6	#
51	51	28.5	22.3	33.5	
120	120	21.6	16.9	25.3	

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#23

Nitrobenzene-d5

Concen: 28.311 ng

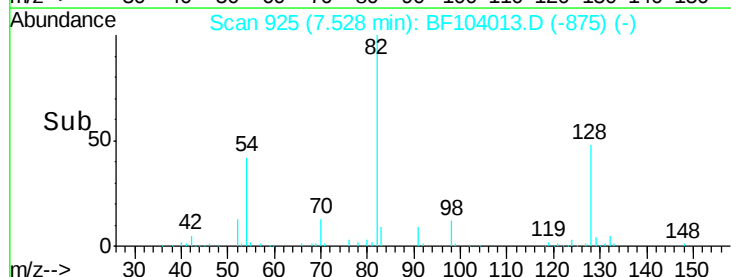
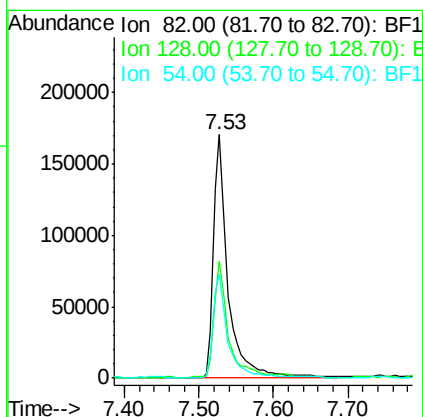
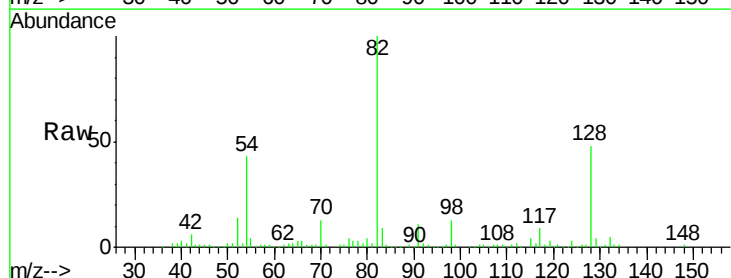
RT: 7.53 min Scan# 925

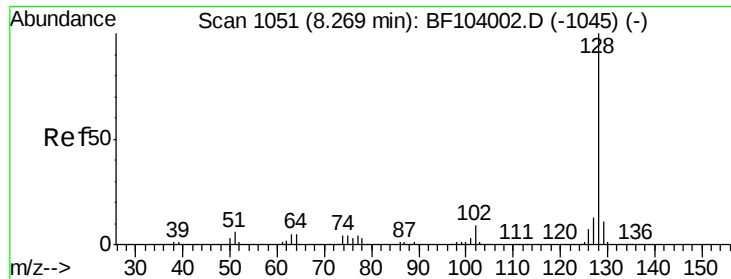
Delta R.T. -0.01 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	82	100			
128	128	47.8	36.1	54.1	
54	54	42.7	41.4	62.2	





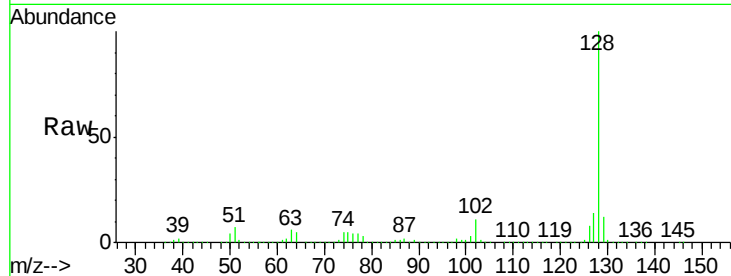
#31
Naphthalene
Concen: 222.699 ng
RT: 8.29 min Scan# 1054
Delta R.T. 0.02 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Instrument :
BNA_F
ClientSampleId :
MW-103(2-3)

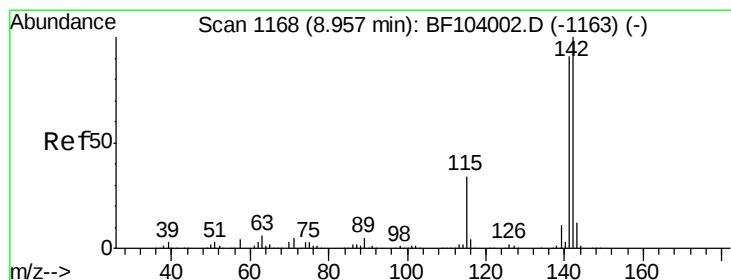
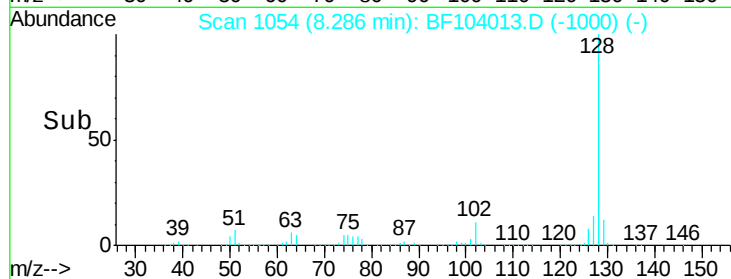
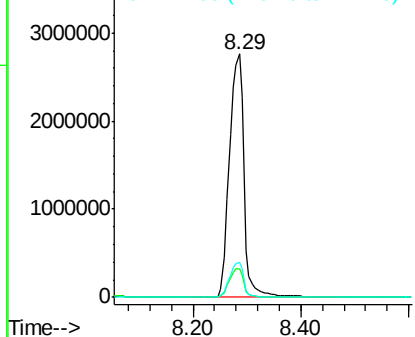
Tot Ion:128 Resp: 5327226
Ion Ratio Lower Upper
128 100
129 11.7 8.8 13.2
127 14.5 10.9 16.3

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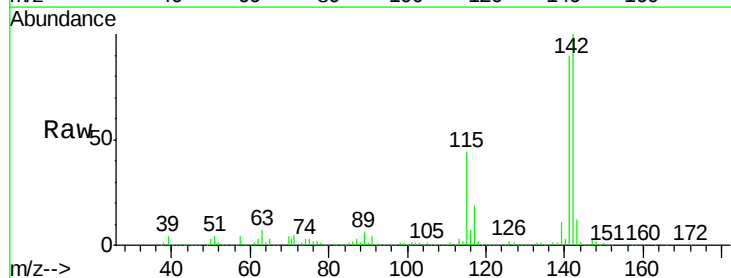


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

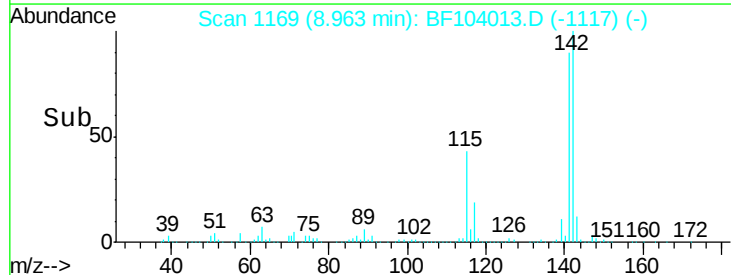
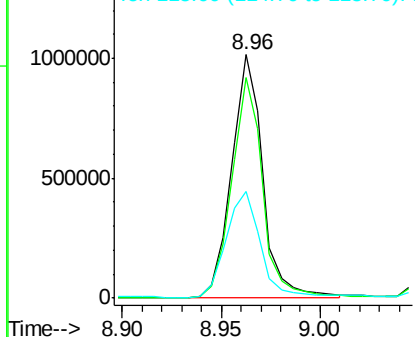


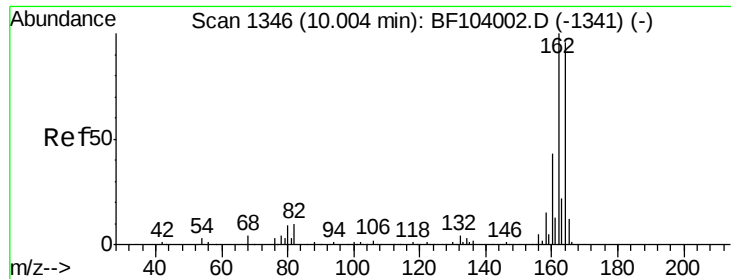
#37
2-Methylnaphthalene
Concen: 70.990 ng m
RT: 8.96 min Scan# 1169
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Tgt Ion:142 Resp: 1118593
Ion Ratio Lower Upper
142 100
141 90.3 70.8 106.2
115 43.6 26.1 39.1#



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: 20.000 ng

RT: 10.00 min Scan# 1346

Delta R.T. -0.00 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Instrument :

BNA_F

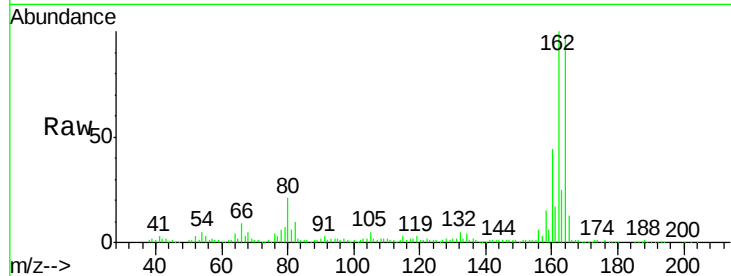
ClientSampleId :

MW-103(2-3)

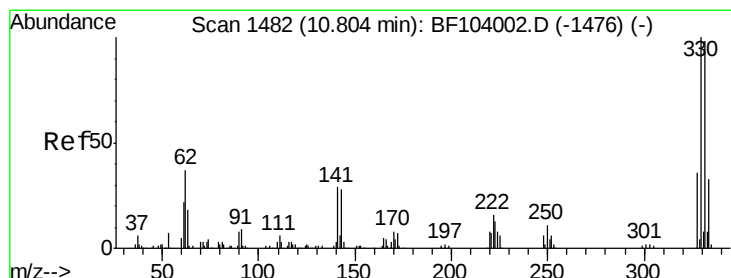
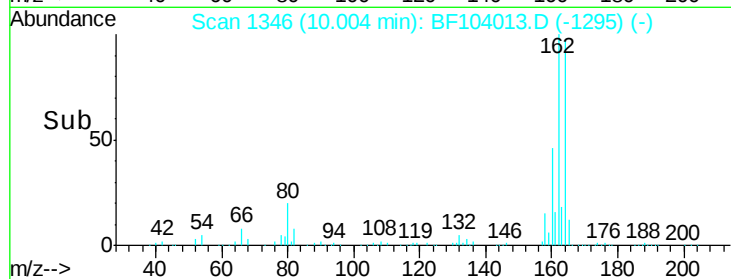
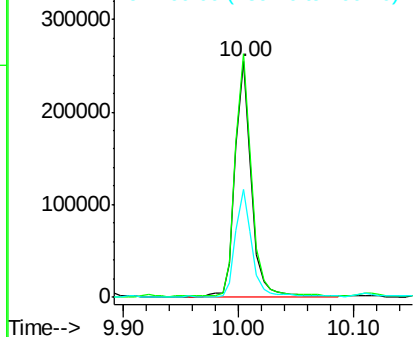
Tot Ion:	164	Resp:	248151
Ion Ratio	Lower	Upper	
164	100		
162	103.3	86.1	129.1
160	45.9	38.3	57.5

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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: 32.392 ng

RT: 10.80 min Scan# 1481

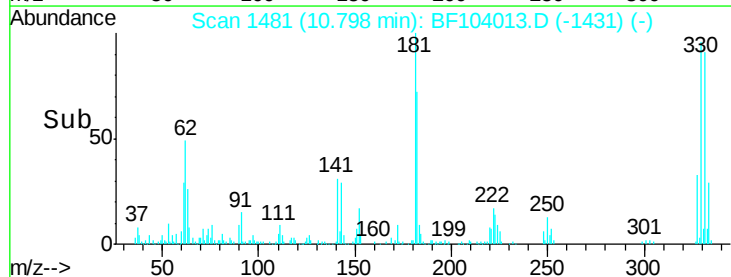
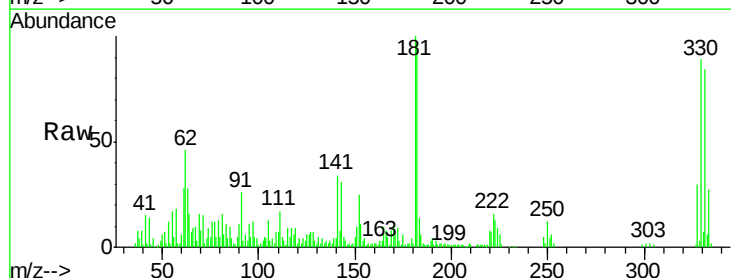
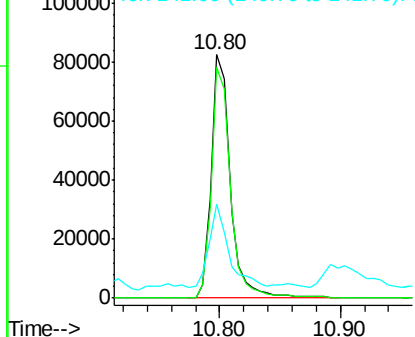
Delta R.T. -0.01 min

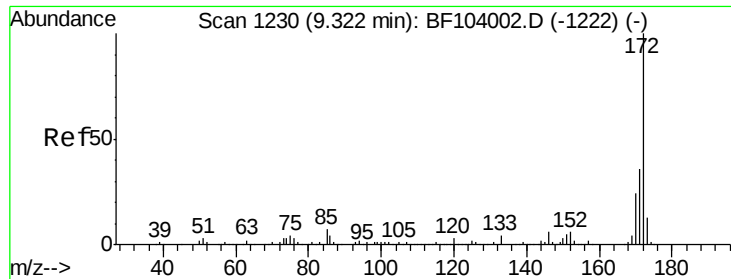
Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Tgt Ion:	330	Resp:	89504
Ion Ratio	Lower	Upper	
330	100		
332	95.3	77.0	115.6
141	34.9	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





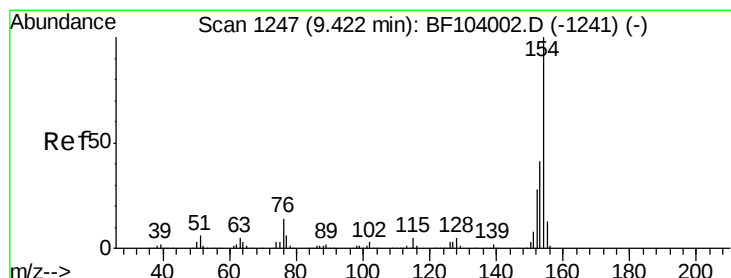
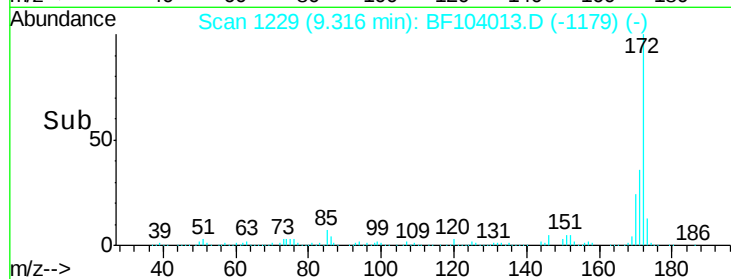
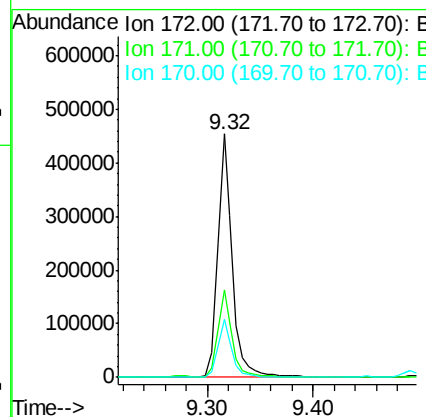
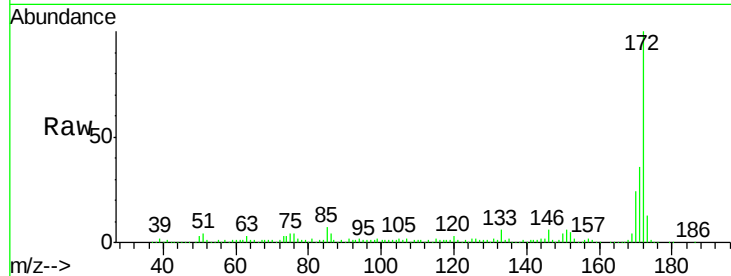
#44
2-Fluorobiphenyl
Concen: 27.953 ng
RT: 9.32 min Scan# 1229
Delta R.T. -0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Instrument :
BNA_F
ClientSampleId :
MW-103(2-3)

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.7	44.5
170	23.8	19.6	29.4

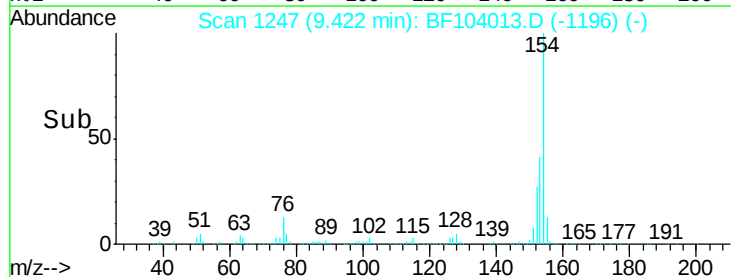
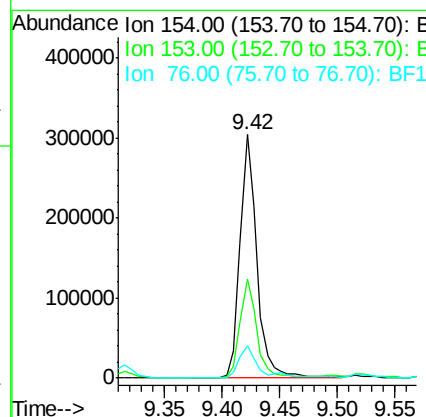
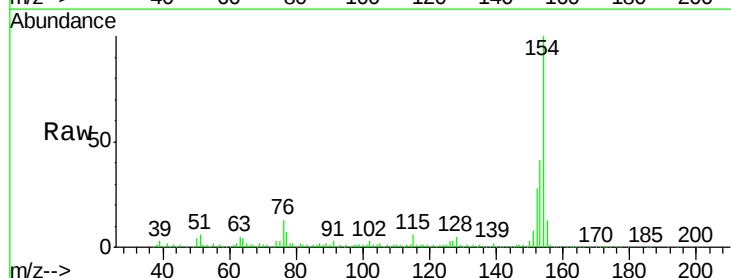
Manual Integrations
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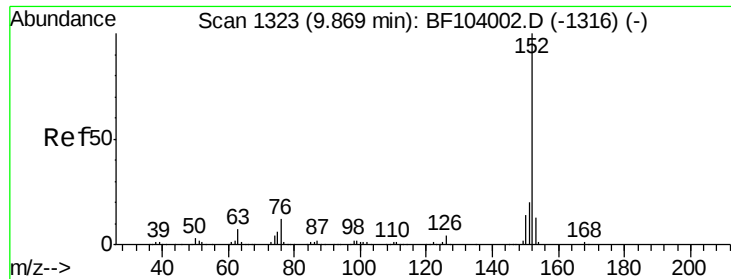
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#45
1,1'-Biphenyl
Concen: 14.439 ng
RT: 9.42 min Scan# 1247
Delta R.T. -0.00 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.6	21.3	61.3
76	13.4	0.0	34.0





#48

Acenaphthylene

Concen: 13.203 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Instrument :

BNA_F

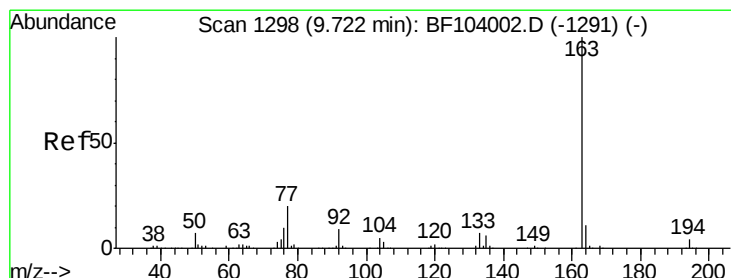
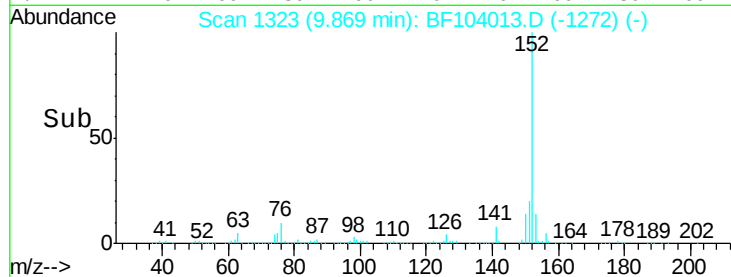
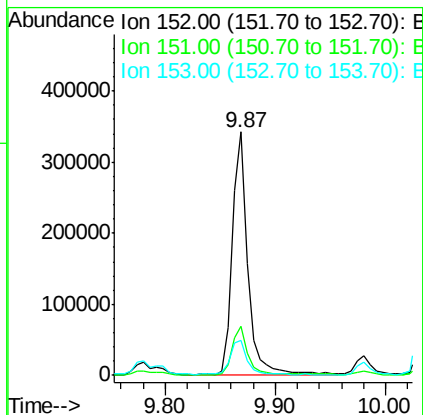
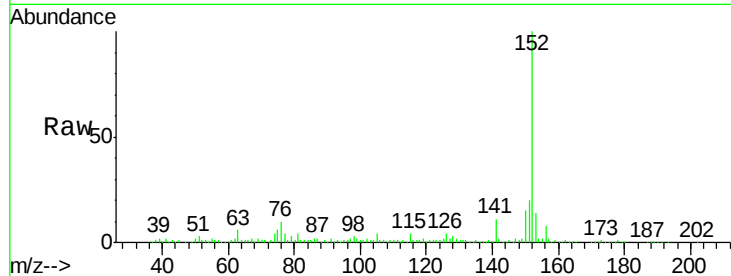
ClientSampleId :

MW-103(2-3)

Tot Ion:	152	Resp:	336049
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.3	24.5
153	14.5	10.7	16.1

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#49

Dimethylphthalate

Concen: 2.234 ng

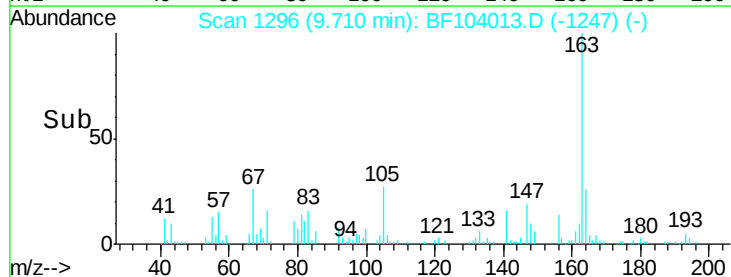
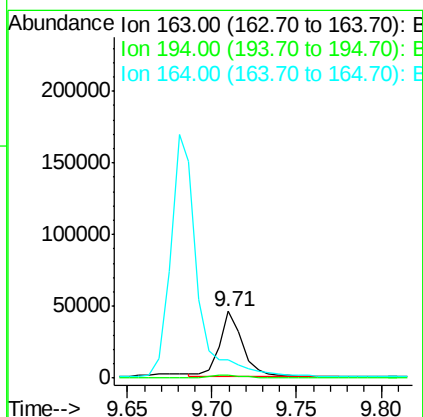
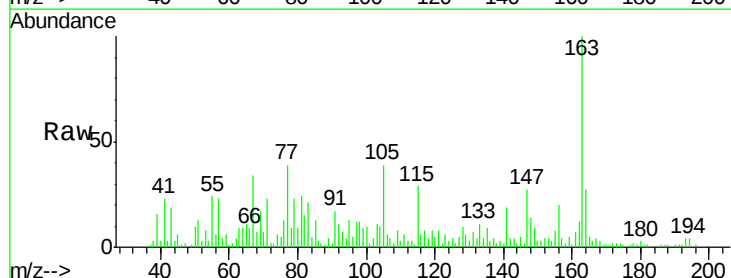
RT: 9.71 min Scan# 1296

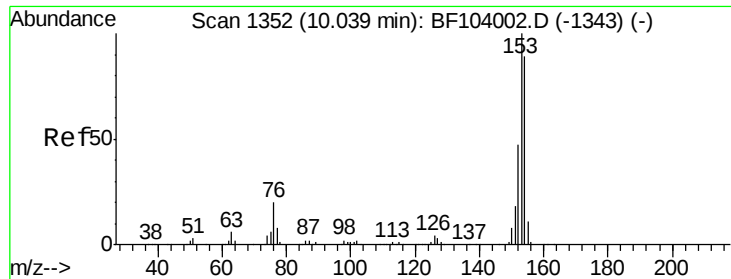
Delta R.T. -0.01 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Tgt Ion:	163	Resp:	43777
Ion Ratio	Lower	Upper	
163	100		
194	4.5	2.7	4.1#
164	26.6	8.2	12.2#





#51

Acenaphthene

Concen: 11.960 ng

RT: 10.04 min Scan# 1352

Delta R.T. -0.00 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Instrument :

BNA_F

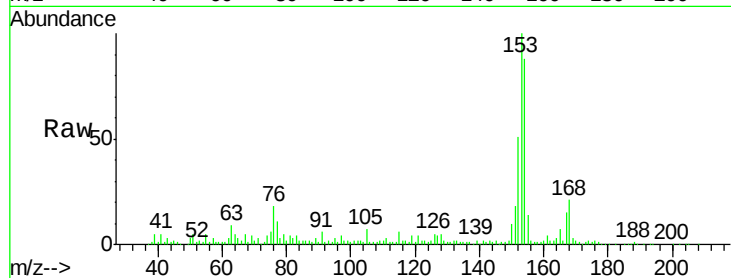
ClientSampleId :

MW-103(2-3)

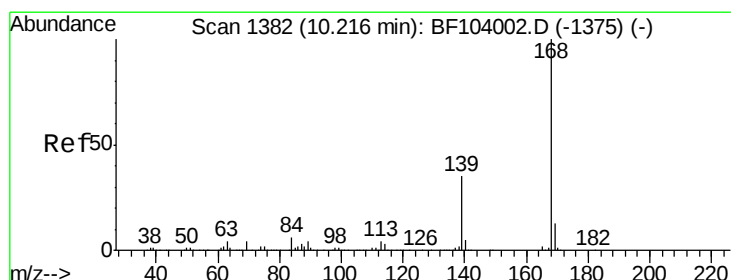
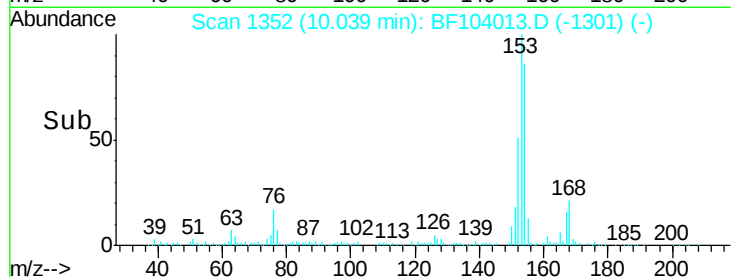
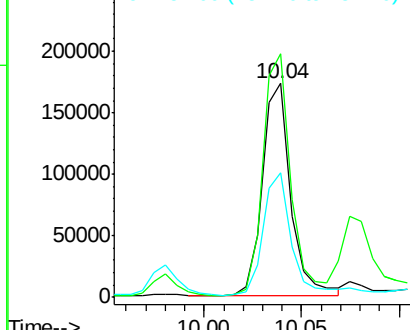
Tot Ion:	154	Resp:	176100
Ion Ratio	Lower	Upper	
154	100		
153	113.8	91.2	136.8
152	58.4	43.8	65.8

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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: 31.080 ng

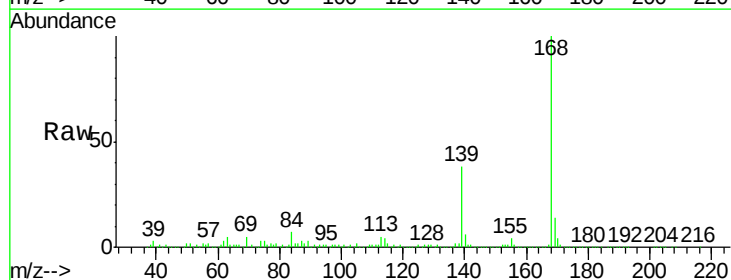
RT: 10.21 min Scan# 1381

Delta R.T. -0.01 min

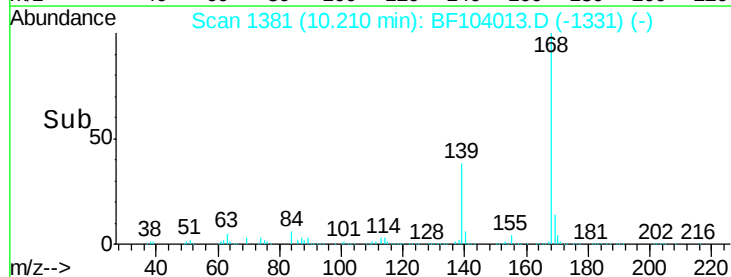
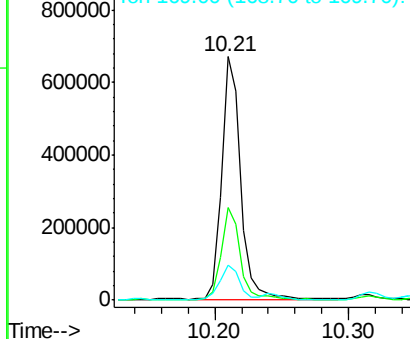
Lab File: BF104013.D

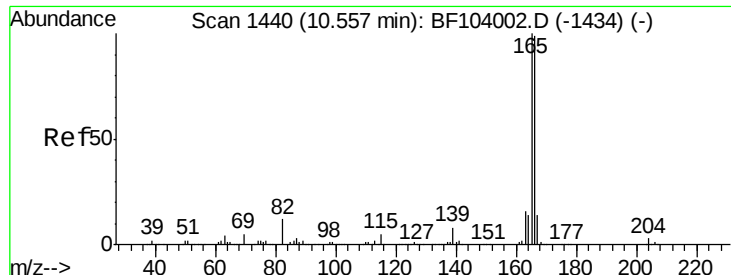
Acq: 28 Mar 2018 16:45

Tgt Ion:	168	Resp:	668241
Ion Ratio	Lower	Upper	
168	100		
139	38.3	30.1	45.1
169	14.2	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





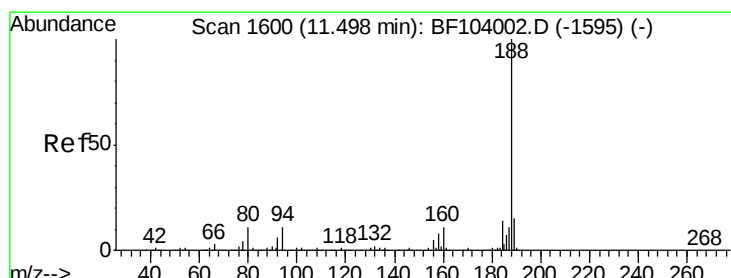
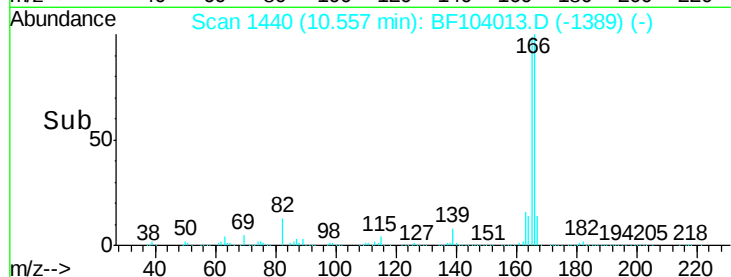
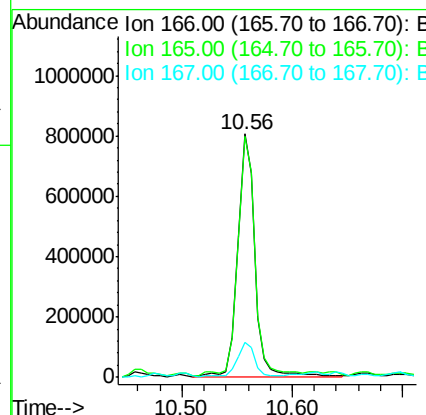
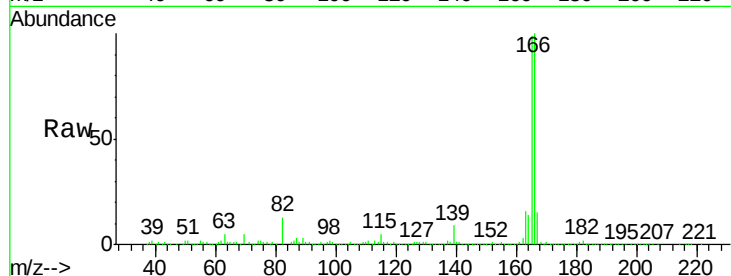
#57
Fluorene
 Concen: 49.235 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.00 min
 Lab File: BF104013.D
 Acq: 28 Mar 2018 16:45

Instrument :
 BNA_F
 ClientSampleId :
 MW-103(2-3)

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.2	79.8	119.8
167	14.6	10.6	16.0

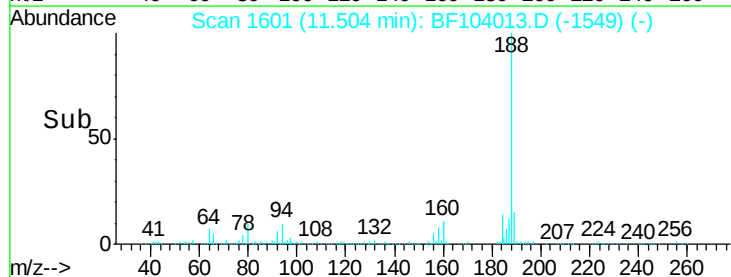
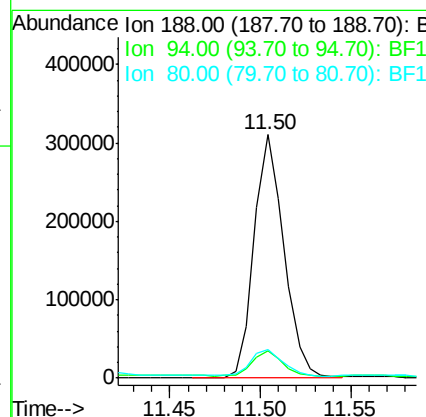
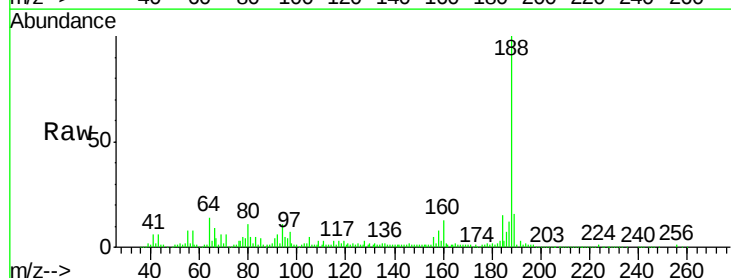
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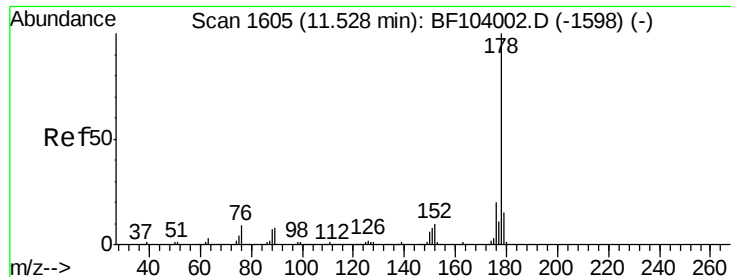
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. 0.01 min
 Lab File: BF104013.D
 Acq: 28 Mar 2018 16:45

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.4	8.5	12.7
80	11.5	9.2	13.8





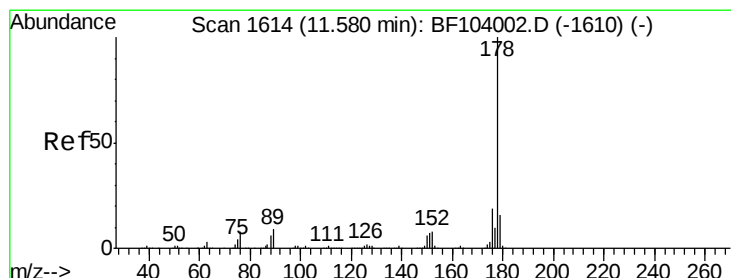
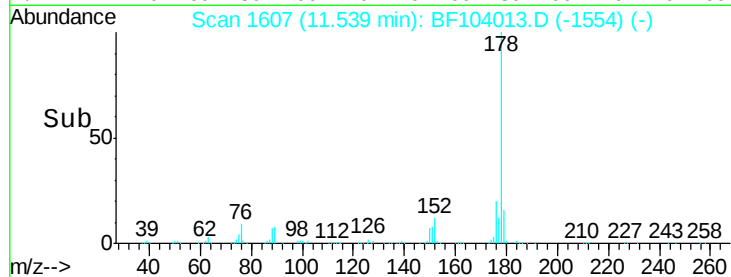
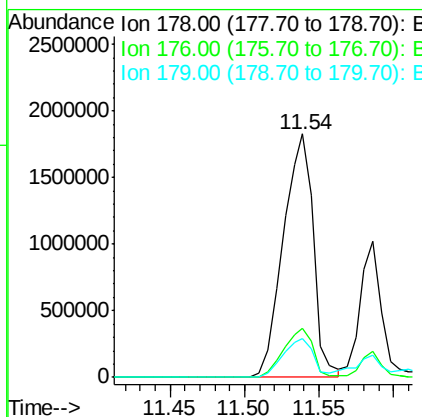
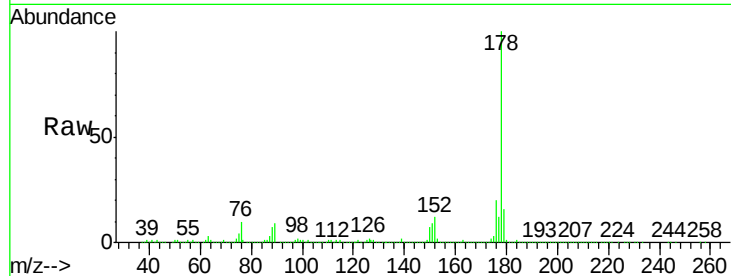
#70
Phenanthrene
Concen: 134.161 ng
RT: 11.54 min Scan# 1607
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Instrument :
BNA_F
ClientSampleId :
MW-103(2-3)

Tot Ion:178 Resp: 2574078
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 16.0 13.0 19.6

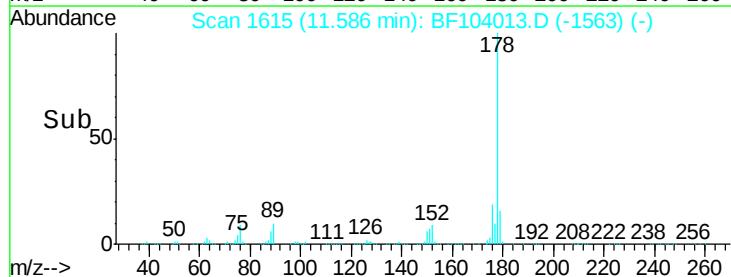
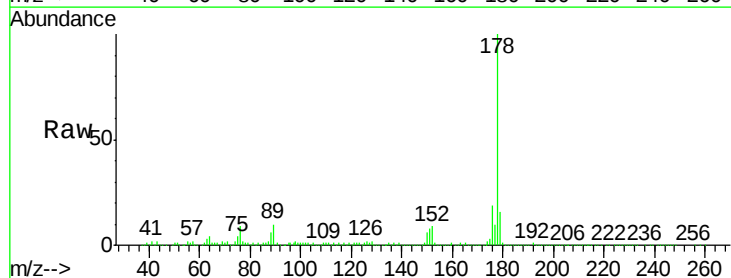
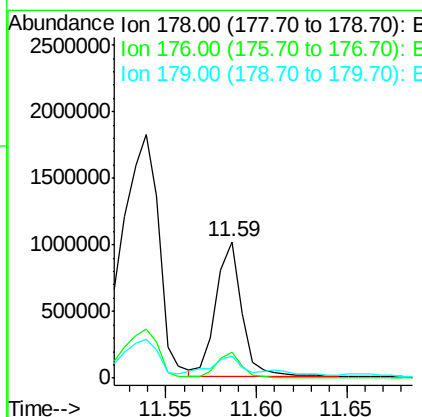
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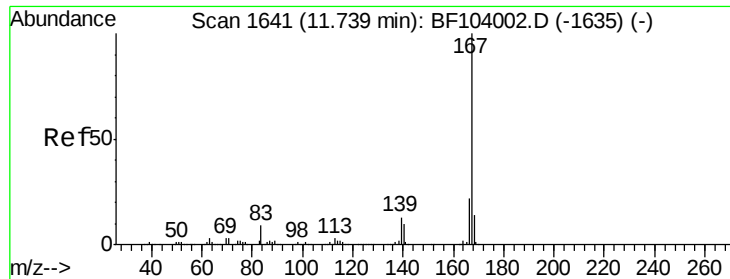
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#71
Anthracene
Concen: 50.669 ng
RT: 11.59 min Scan# 1615
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Tgt Ion:178 Resp: 1015458
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 16.2 12.6 19.0





#72

Carbazole

Concen: 14.321 ng

RT: 11.74 min Scan# 1641

Delta R.T. -0.00 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Instrument :

BNA_F

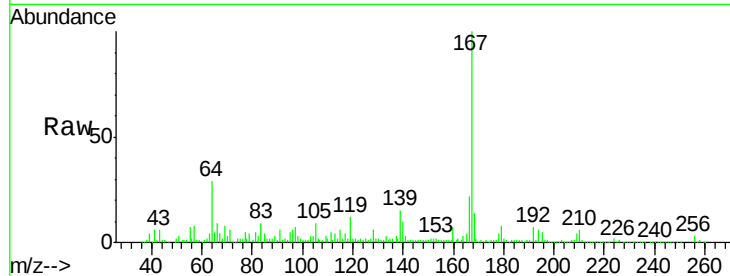
ClientSampleId :

MW-103(2-3)

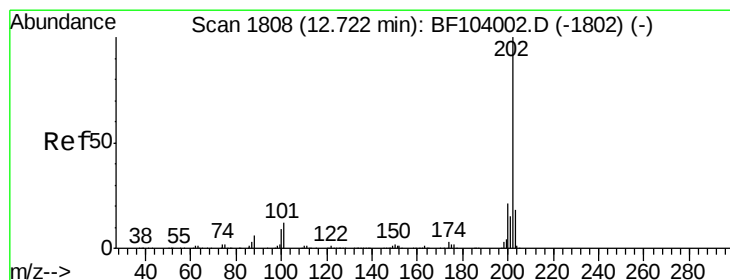
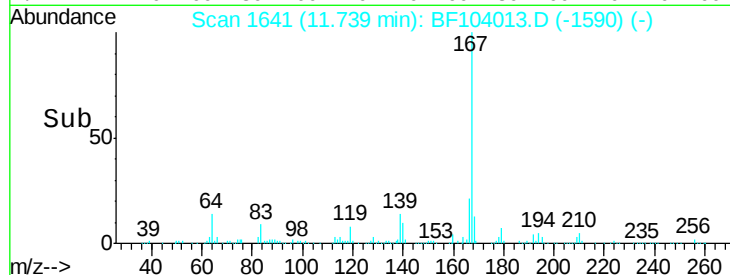
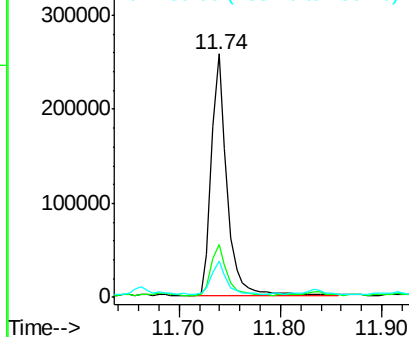
Tot Ion:	167	Resp:	273926
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.6	26.4
139	15.0	10.9	16.3

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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: 98.557 ng

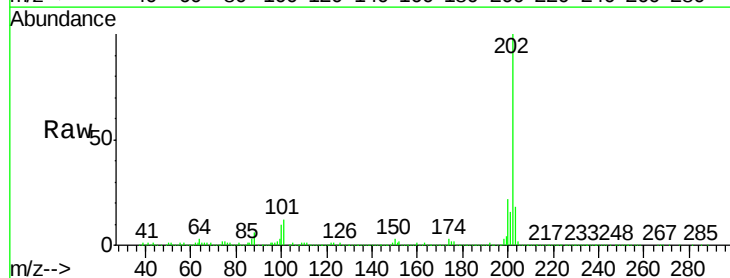
RT: 12.74 min Scan# 1812

Delta R.T. 0.02 min

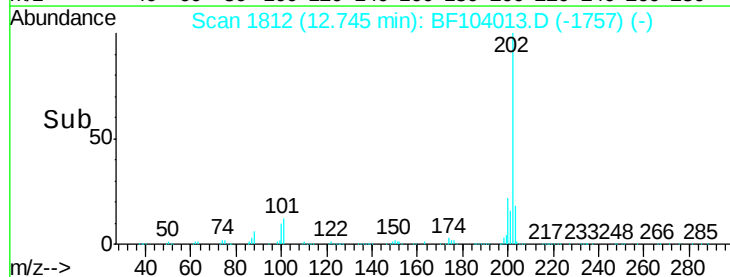
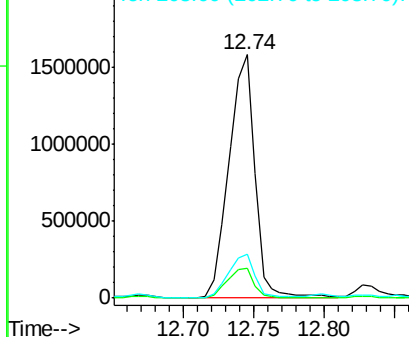
Lab File: BF104013.D

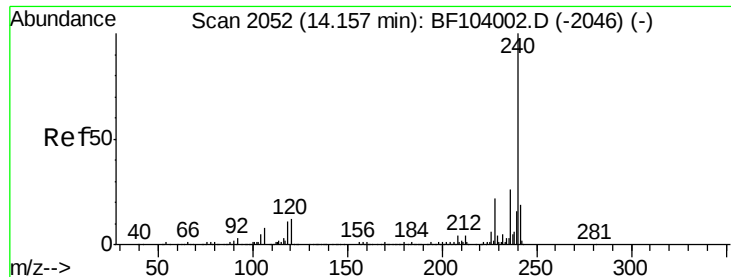
Acq: 28 Mar 2018 16:45

Tgt Ion:	202	Resp:	2010000
Ion Ratio	Lower	Upper	
202	100		
101	12.4	0.0	34.1
203	18.3	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: 14.16 min Scan# 2053

Delta R.T. 0.01 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Instrument :

BNA_F

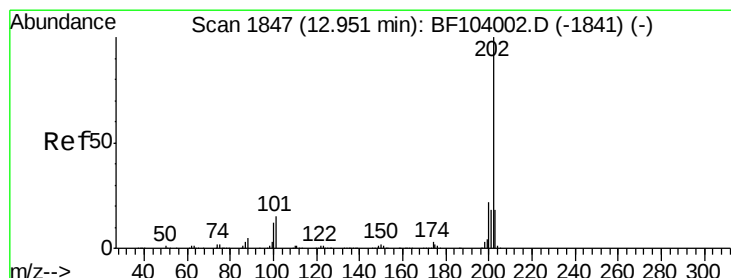
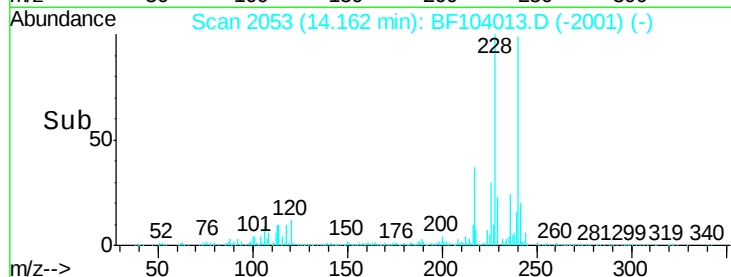
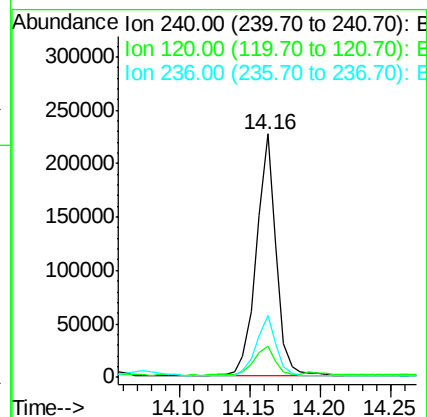
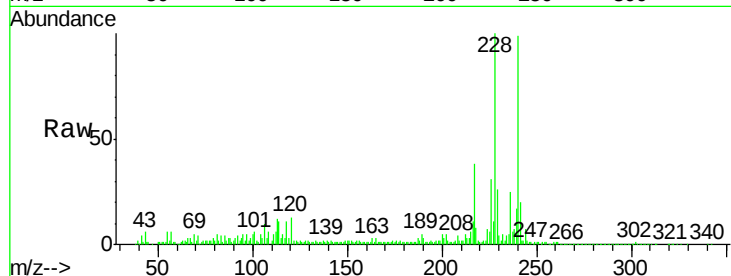
ClientSampleId :

MW-103(2-3)

Tot Ion:	240	Resp:	224694
Ion Ratio	Lower	Upper	
240	100		
120	12.7	9.5	14.3
236	25.6	20.7	31.1

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#77

Pyrene

Concen: 115.281 ng

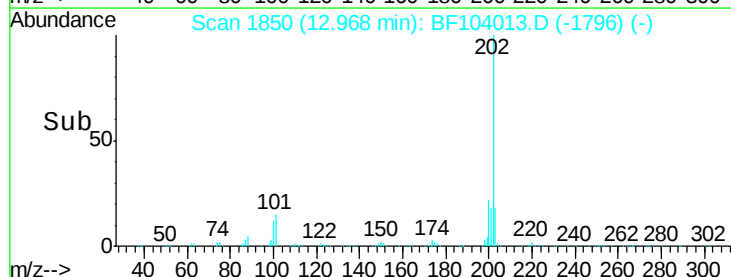
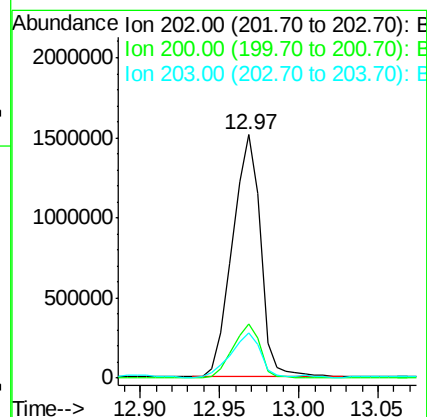
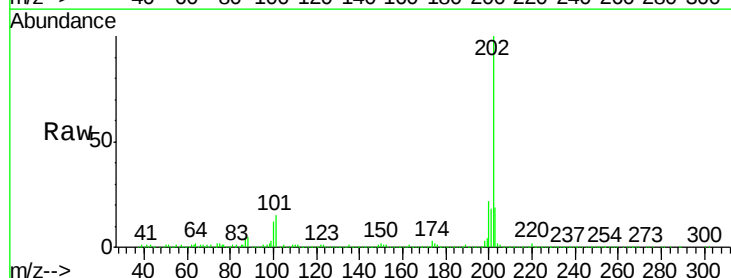
RT: 12.97 min Scan# 1850

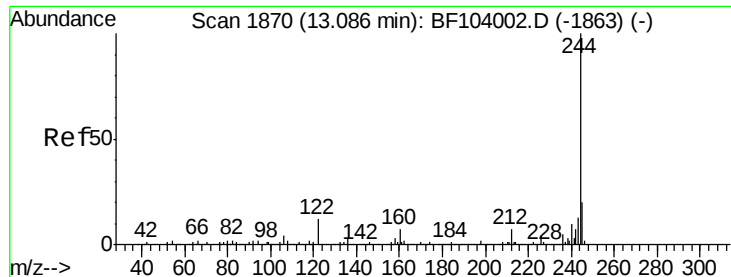
Delta R.T. 0.02 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Tgt Ion:	202	Resp:	1862046
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.4	26.2
203	18.6	14.3	21.5





#78

Terphenyl-d14

Concen: 30.274 ng

RT: 13.09 min Scan# 1870

Delta R.T. -0.00 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Instrument :

BNA_F

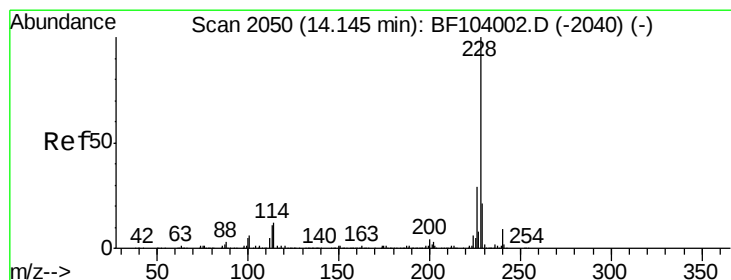
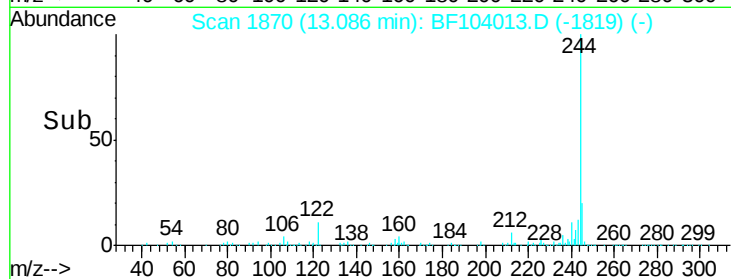
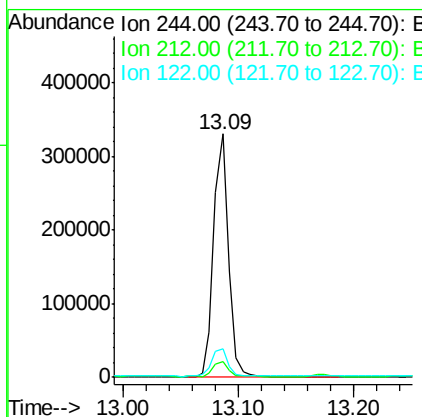
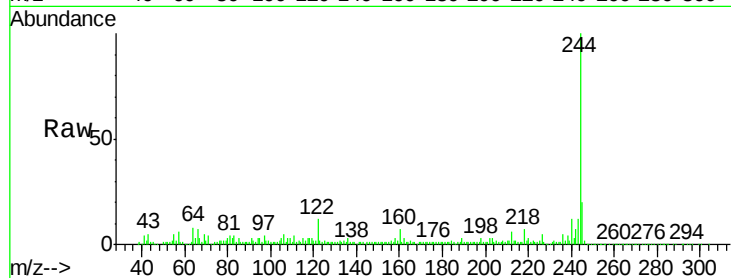
ClientSampleId :

MW-103(2-3)

Tot Ion:	244	Resp:	294606
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	11.5	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 72.611 ng

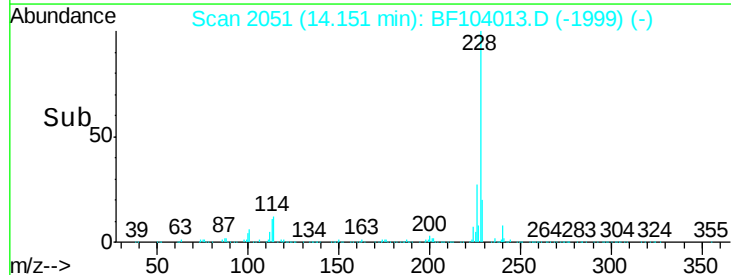
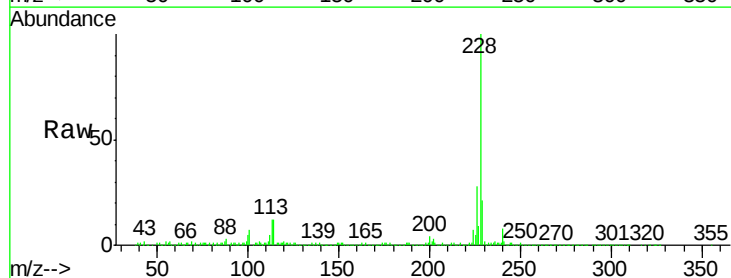
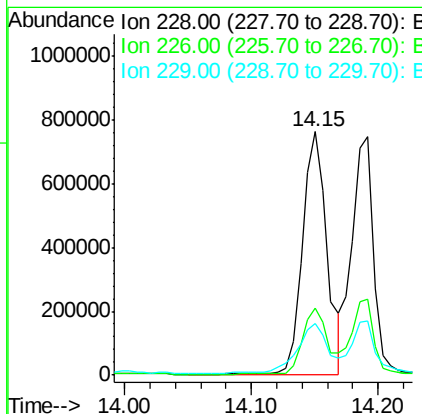
RT: 14.15 min Scan# 2051

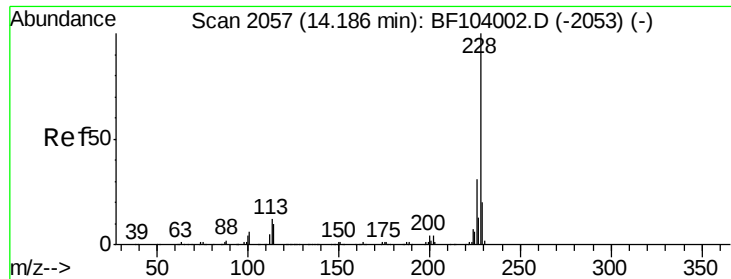
Delta R.T. 0.01 min

Lab File: BF104013.D

Acq: 28 Mar 2018 16:45

Tgt Ion:	228	Resp:	1020866
Ion Ratio	Lower	Upper	
228	100		
226	27.7	22.6	33.8
229	21.4	15.8	23.6





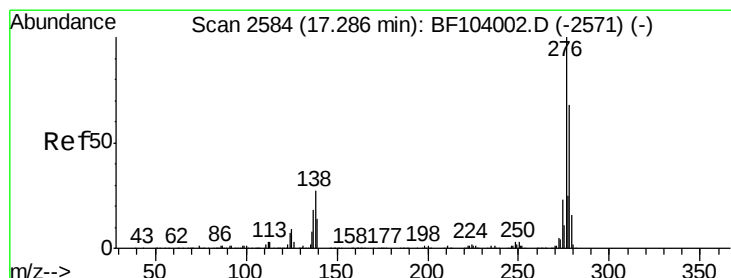
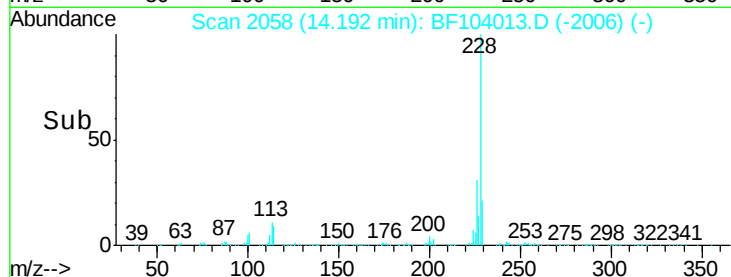
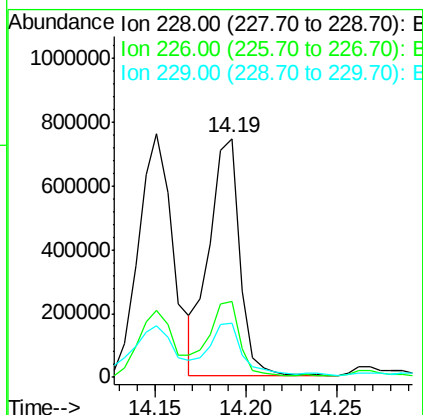
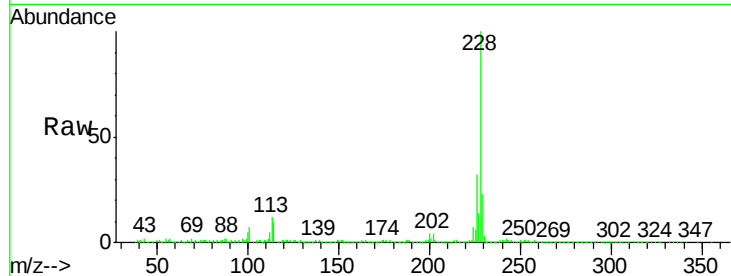
#82
Chrysene
Concen: 63.684 ng
RT: 14.19 min Scan# 2058
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Instrument :
BNA_F
ClientSampleId :
MW-103(2-3)

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.0	37.6
229	22.8	16.2	24.4

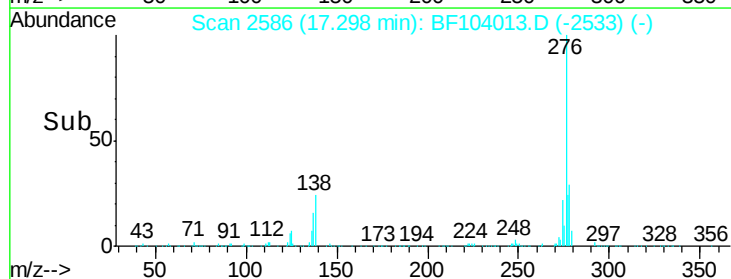
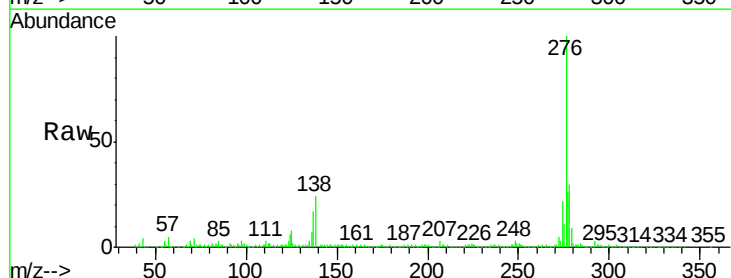
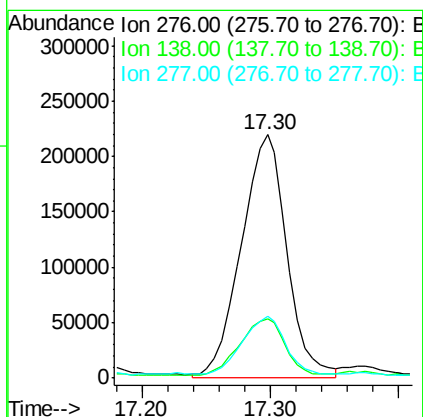
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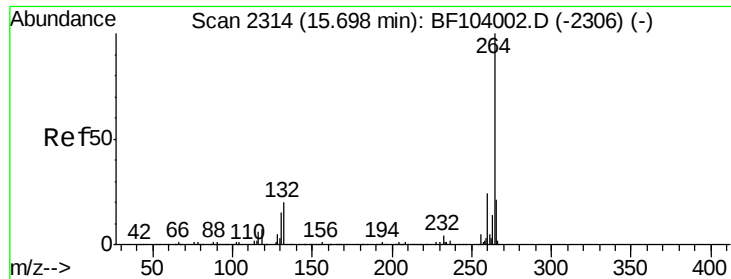
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#85
Indeno(1,2,3-cd)pyrene
Concen: 38.297 ng m
RT: 17.30 min Scan# 2586
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.2	25.0	37.6#
277	5.1	20.1	30.1#





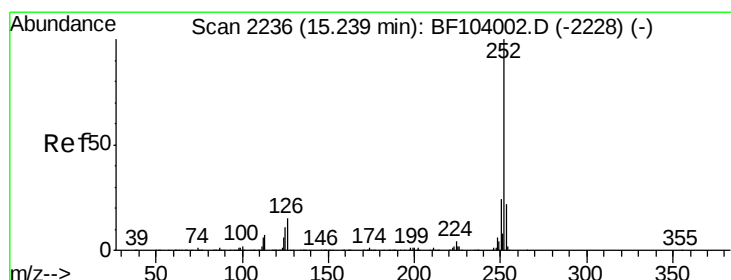
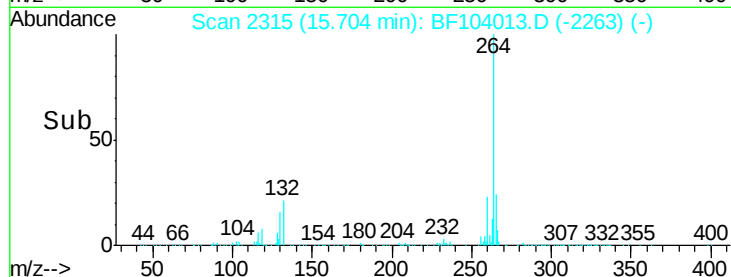
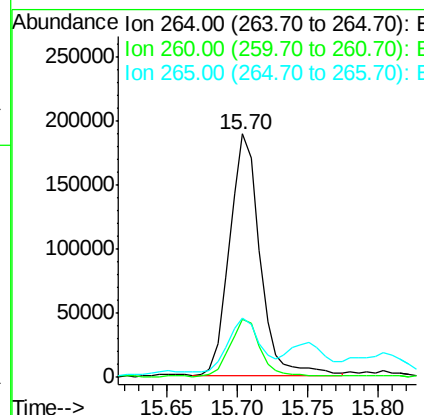
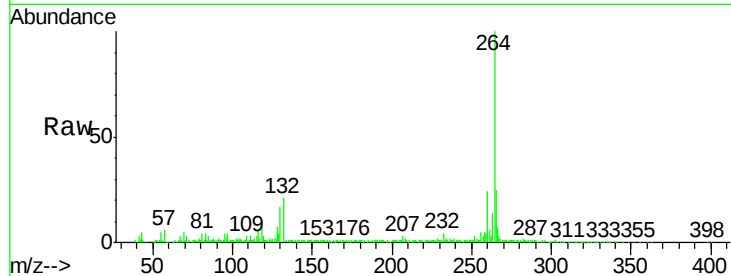
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2315
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Instrument :
BNA_F
ClientSampleId :
MW-103(2-3)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	24.5	17.5	26.3

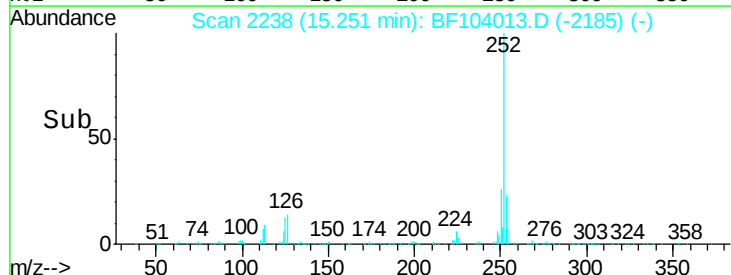
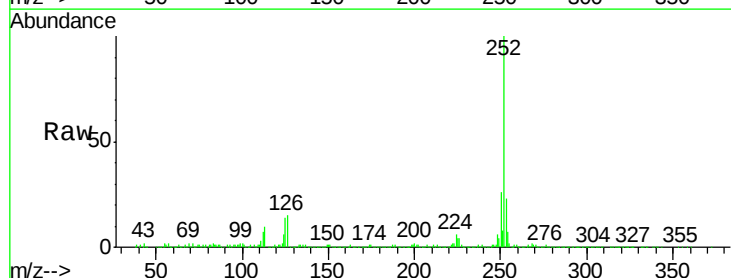
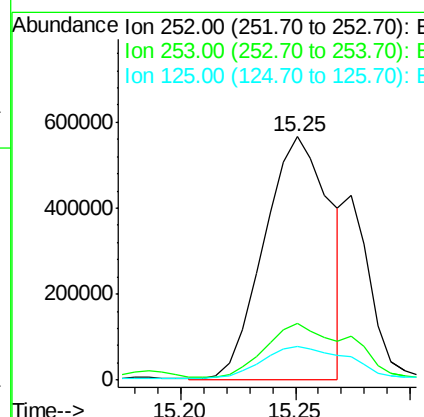
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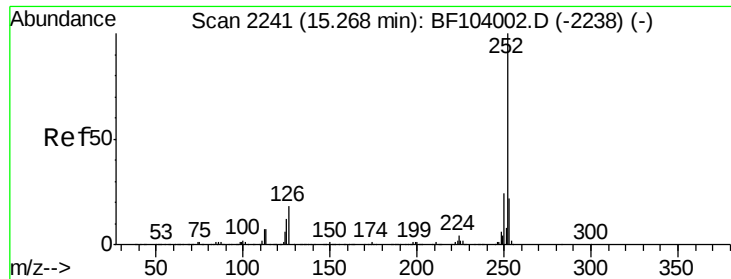
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#87
Benzo(b)fluoranthene
Concen: 66.028 ng m
RT: 15.25 min Scan# 2238
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	13.7	9.0	13.6#





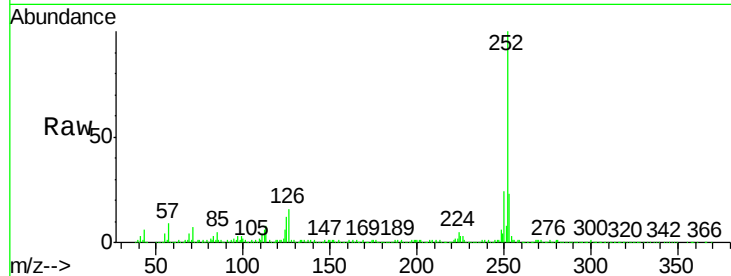
#88
Benzo(k)fluoranthene
Concen: 20.834 ng m
RT: 15.27 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Instrument :
BNA_F
ClientSampleId :
MW-103(2-3)

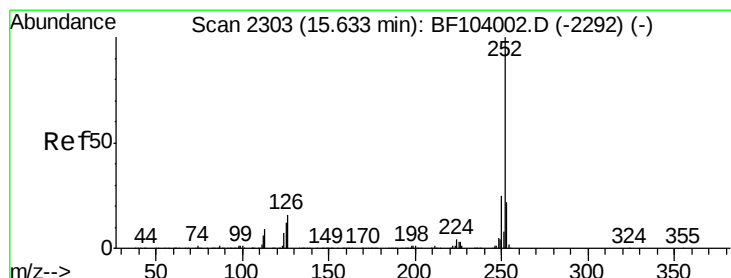
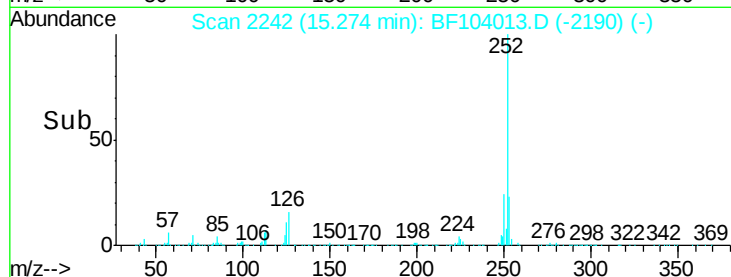
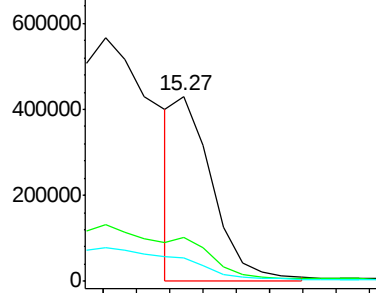
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	12.4	10.2	15.2

Manual Integrations
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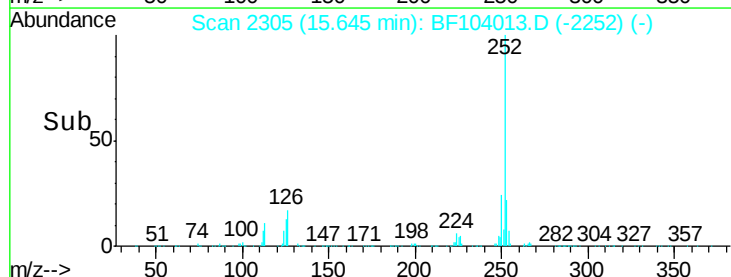
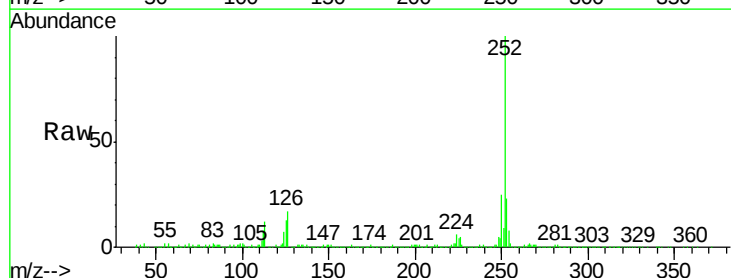
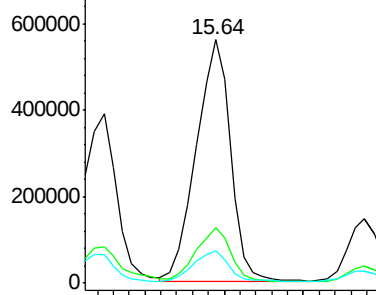
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

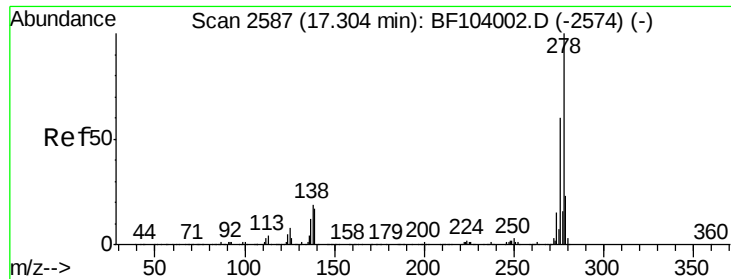


#89
Benzo(a)pyrene
Concen: 52.395 ng
RT: 15.64 min Scan# 2305
Delta R.T. 0.01 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	13.5	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





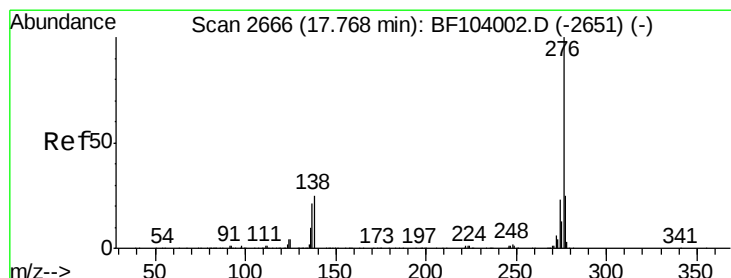
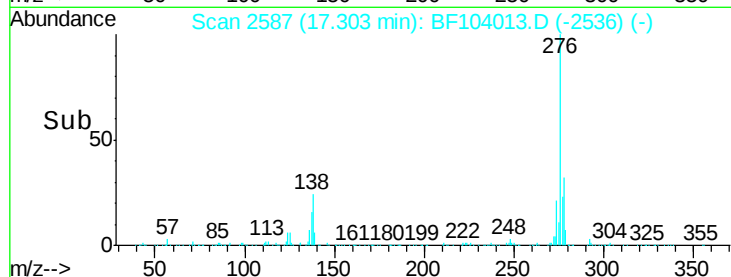
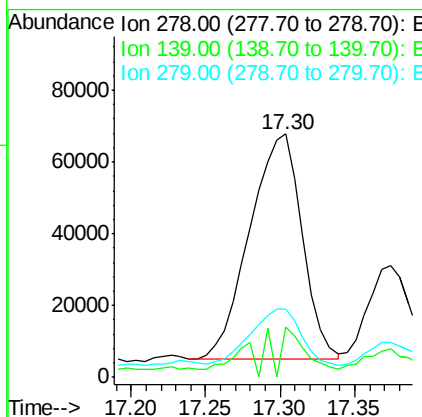
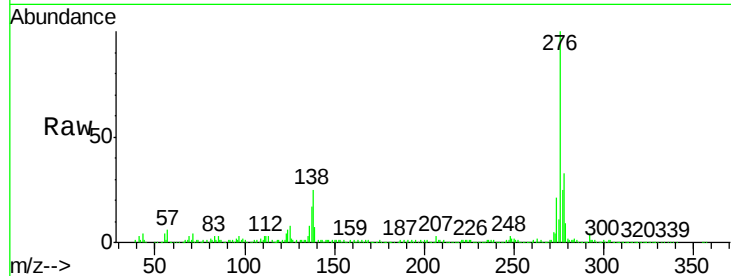
#90
Dibenzo(a,h)anthracene
Concen: 10.329 ng
RT: 17.30 min Scan# 2587
Delta R.T. -0.00 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Instrument :
BNA_F
ClientSampleId :
MW-103(2-3)

Tot Ion:	278	Resp:	152725
Ion Ratio	Lower	Upper	
278	100		
139	20.5	15.9	23.9
279	28.0	19.0	28.4

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#91
Benzo(g,h,i)perylene
Concen: 32.863 ng
RT: 17.79 min Scan# 2669
Delta R.T. 0.02 min
Lab File: BF104013.D
Acq: 28 Mar 2018 16:45

Tgt Ion:	276	Resp:	486694
Ion Ratio	Lower	Upper	
276	100		
277	24.1	17.9	26.9
138	24.6	21.8	32.8

