

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041118\
 Data File : BF104438.D
 Acq On : 11 Apr 2018 15:15
 Operator : JU/SJ
 Sample : J2161-01 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-041018-A

Manual Integrations
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Sohil
 4/12/2018 2:30:37 PM

Quant Time: Apr 11 16:53:17 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 11 13:19:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	135029	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	534466	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	228943	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	371597	20.00	ng	0.00
75) Chrysene-d12	13.98	240	274498	20.00	ng	0.00
86) Perylene-d12	15.45	264	235824	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	265396	30.05	ng	0.00
7) Phenol-d6	6.43	99	355191	32.74	ng	0.00
23) Nitrobenzene-d5	7.37	82	204398	24.97	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	84654	35.65	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	429465	29.63	ng	0.00
78) Terphenyl-d14	12.92	244	351126	29.16	ng	0.00
Target Compounds						
31) Naphthalene	8.11	128	129066	4.850	ng	98
37) 2-Methylnaphthalene	8.80	142	50842	2.953	ng	99
51) Acenaphthene	9.88	154	61733	4.245	ng	98
54) Dibenzofuran	10.05	168	82399	4.066	ng	98
57) Fluorene	10.39	166	115684	7.842	ng	99
70) Phenanthrene	11.36	178	508798	24.587	ng	99
71) Anthracene	11.41	178	162284	7.715	ng	99
72) Carbazole	11.56	167	57549	2.800	ng	99
74) Fluoranthene	12.55	202	609766	28.202	ng	100
77) Pyrene	12.78	202	546517	26.860	ng	99
80) Benzo(a)anthracene	13.97	228	259509	15.825	ng	96
82) Chrysene	14.01	228	229955	13.652	ng	97
85) Indeno(1,2,3-cd)pyrene	16.90	276	101345m	7.083	ng	
87) Benzo(b)fluoranthene	15.02	252	255179m	17.133	ng	
88) Benzo(k)fluoranthene	15.05	252	95384m	6.783	ng	
89) Benzo(a)pyrene	15.39	252	188161	14.119	ng	97
90) Dibenzo(a,h)anthracene	16.90	278	26009	2.376	ng	# 86
91) Benzo(g,h,i)perylene	17.33	276	95443	9.001	ng	96

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

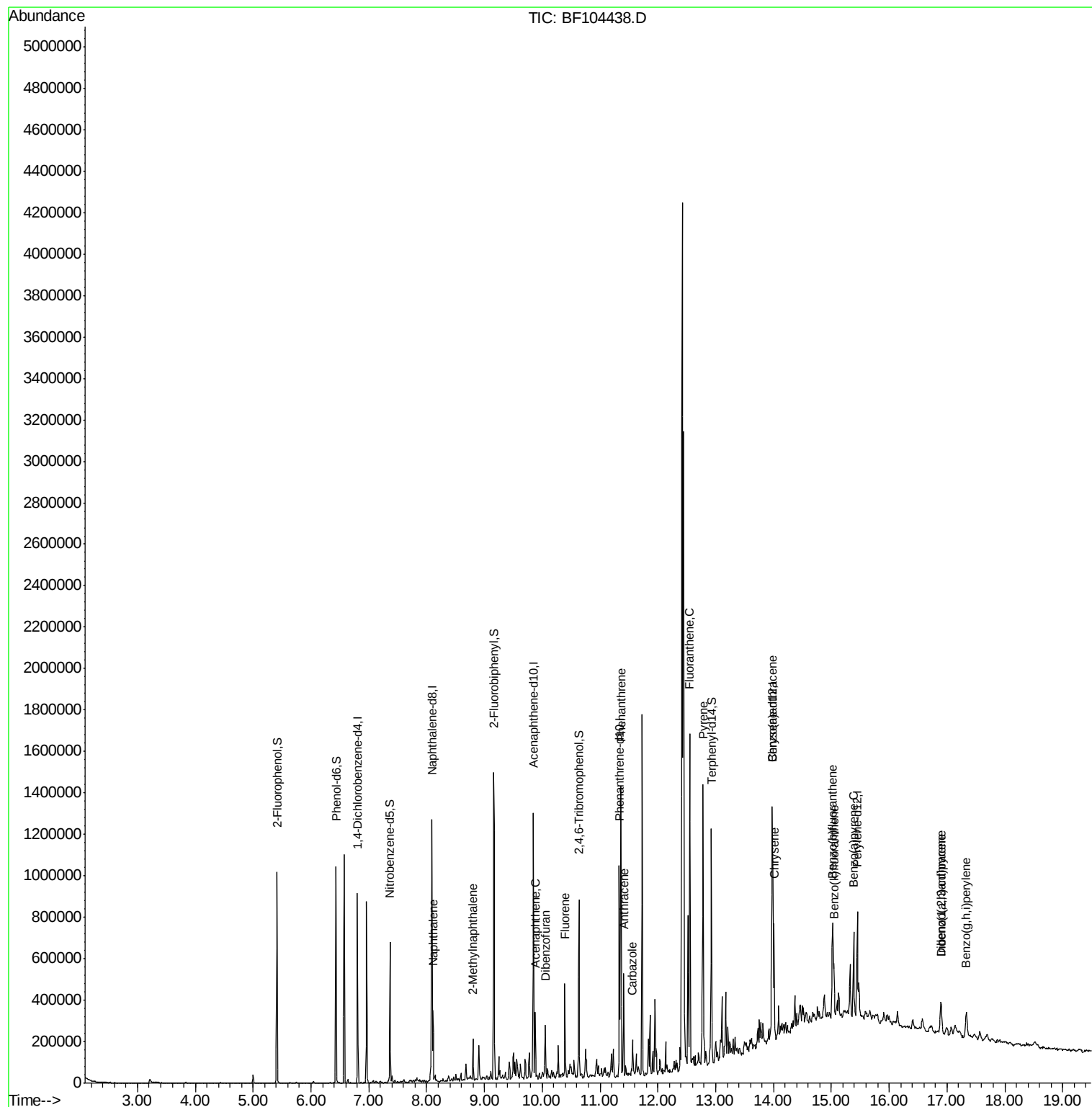
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041118\
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
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#1

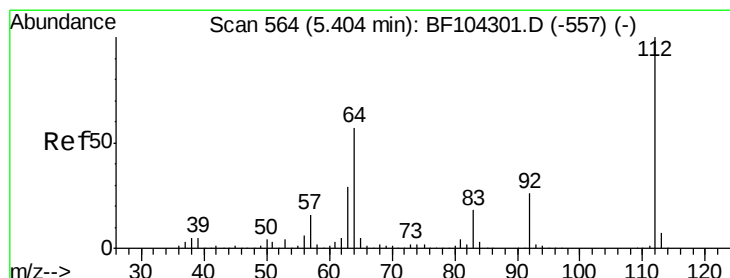
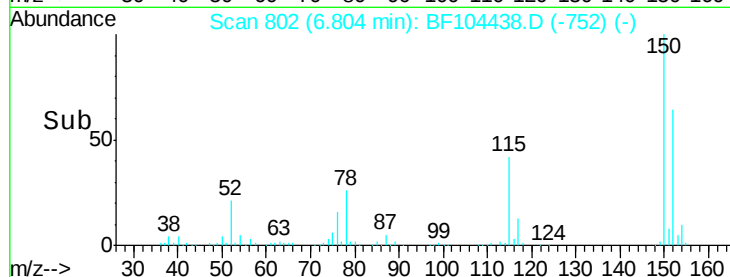
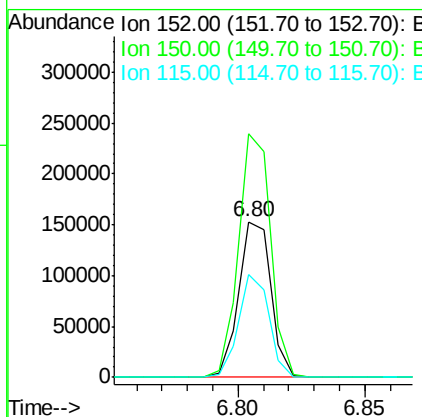
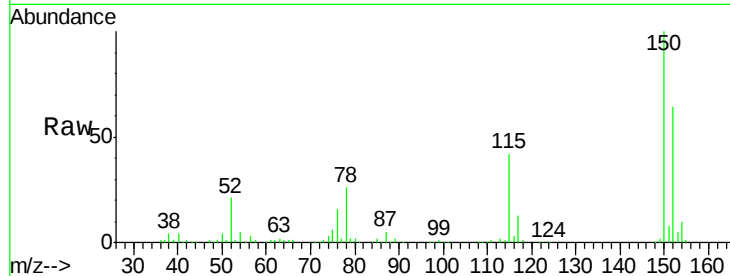
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Instrument :
BNA_F
ClientSampleId :
OR-02-041018-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.6	186.8
115	66.1	50.1	75.1

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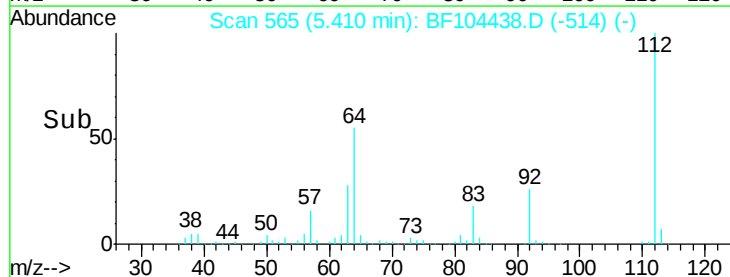
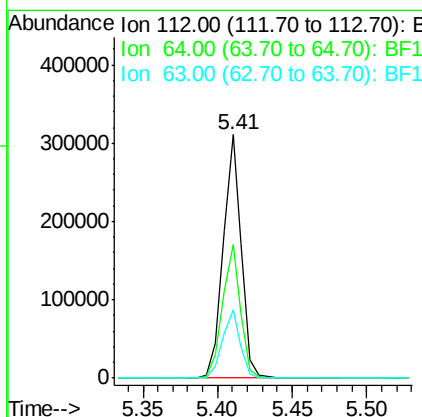
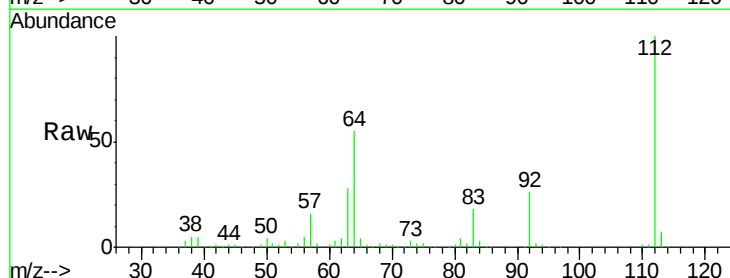
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#5

2-Fluorophenol
Concen: 30.053 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.00 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	47.9	71.9
63	28.1	23.7	35.5





#7

Phenol-d6

Concen: 32.736 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Instrument :

BNA_F

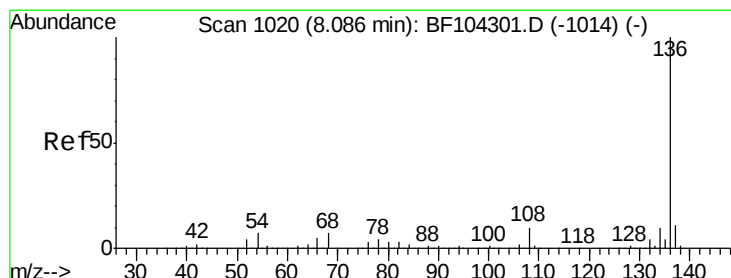
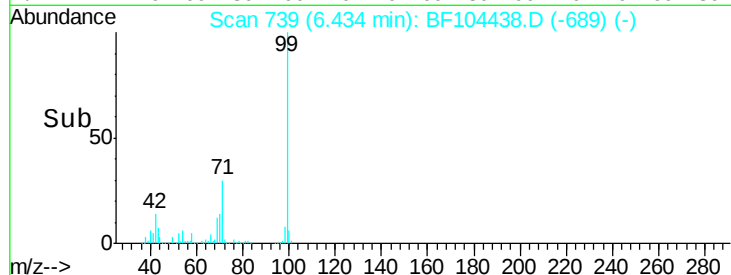
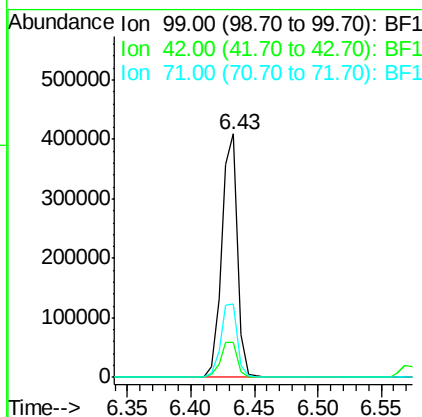
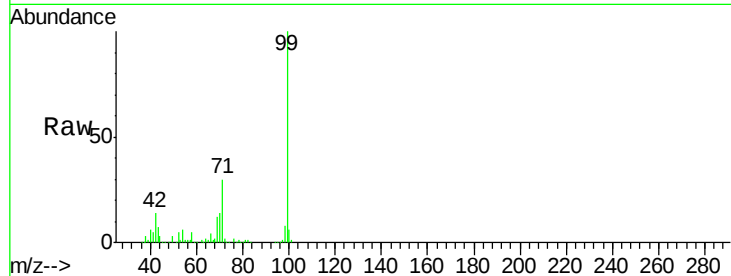
ClientSampled :

OR-02-041018-A

Tot Ion:	99	Resp:	355191
Ion Ratio	Lower	Upper	
99	100		
42	14.3	14.5	21.7#
71	30.2	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

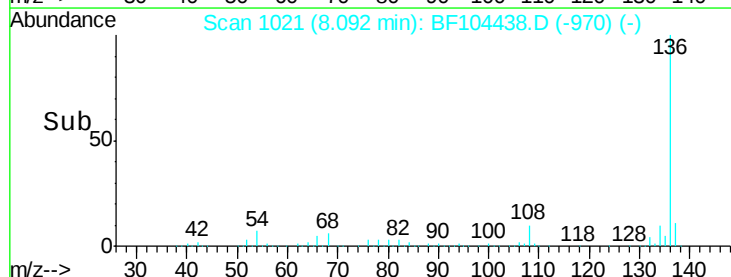
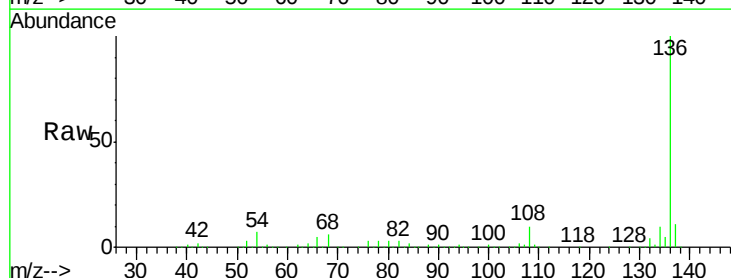
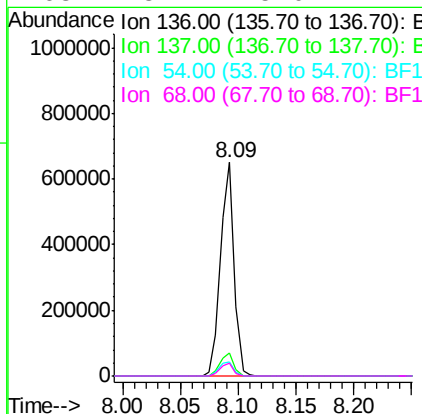
RT: 8.09 min Scan# 1021

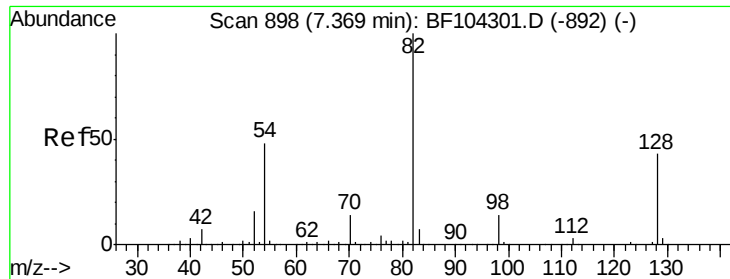
Delta R.T. 0.00 min

Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Tgt Ion:	136	Resp:	534466
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	6.6	6.6	9.8
68	5.7	5.0	7.4





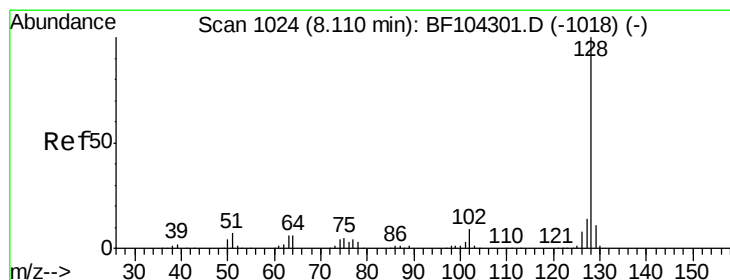
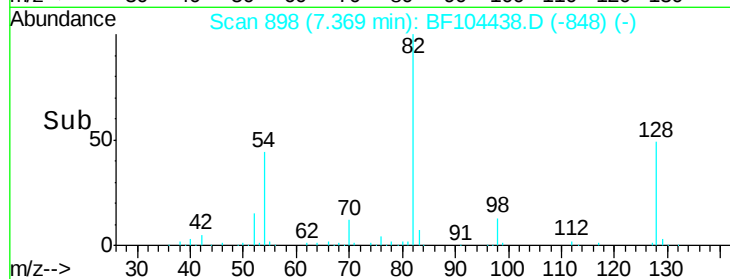
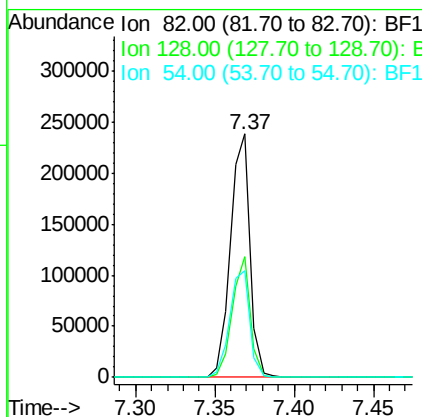
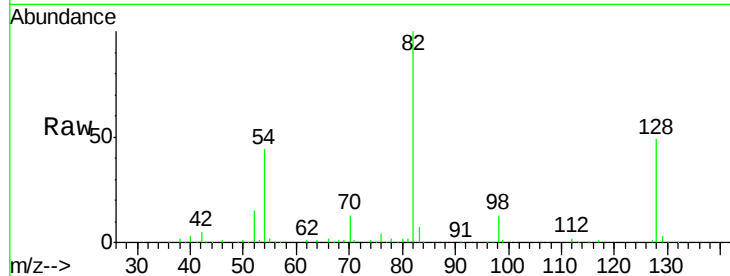
#23
 Nitrobenzene-d5
 Concen: 24.972 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: BF104438.D
 Acq: 11 Apr 2018 15:15

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-041018-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.4	36.1	54.1
54	44.0	41.4	62.2

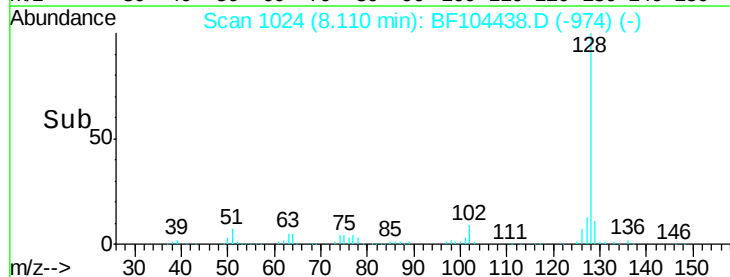
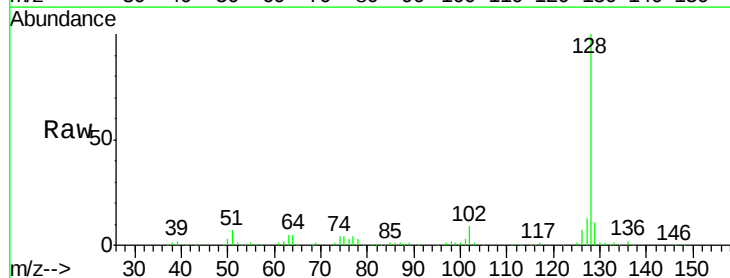
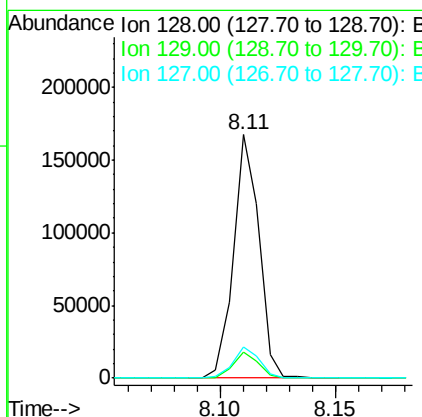
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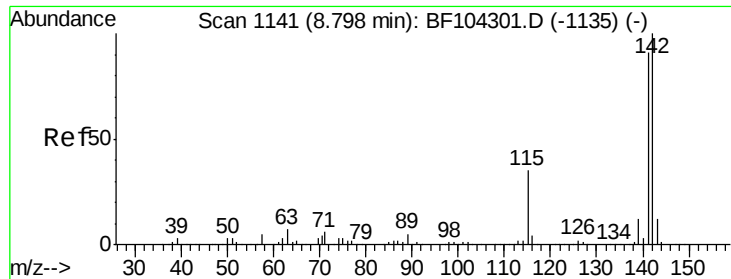
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#31
 Naphthalene
 Concen: 4.850 ng
 RT: 8.11 min Scan# 1024
 Delta R.T. -0.01 min
 Lab File: BF104438.D
 Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	12.6	10.9	16.3





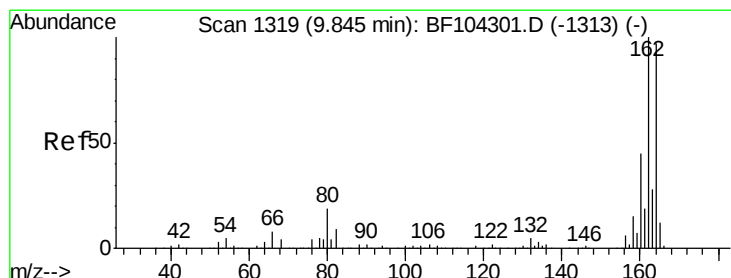
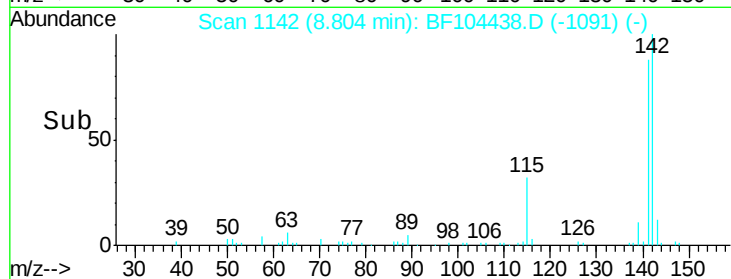
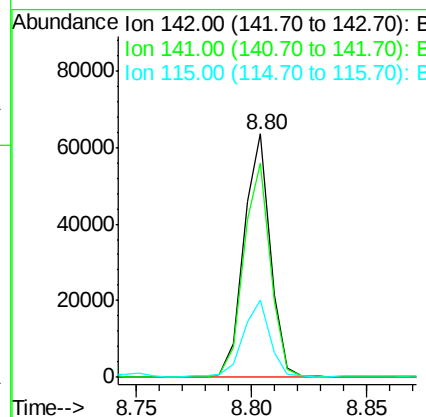
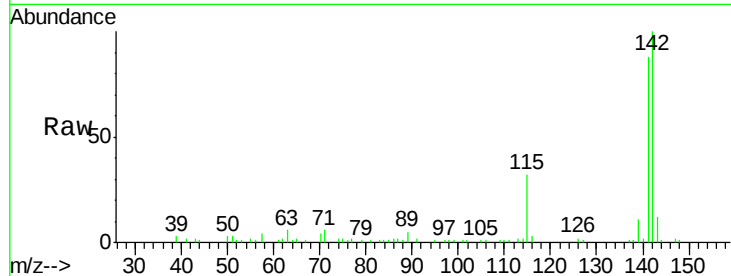
#37
2-Methylnaphthalene
Concen: 2.953 ng
RT: 8.80 min Scan# 1142
Delta R.T. 0.00 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Instrument :
BNA_F
ClientSampleId :
OR-02-041018-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.7	70.8	106.2
115	31.5	26.1	39.1

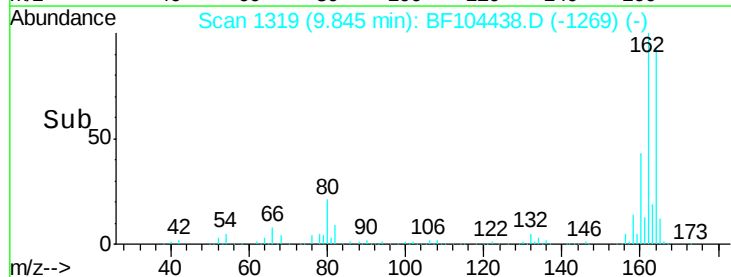
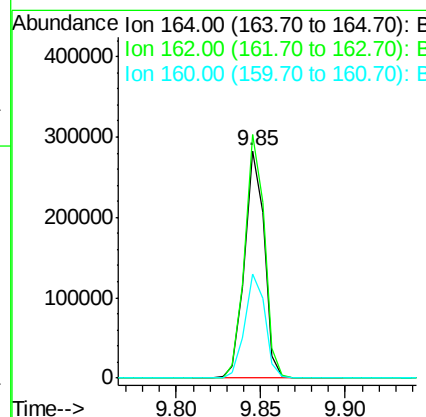
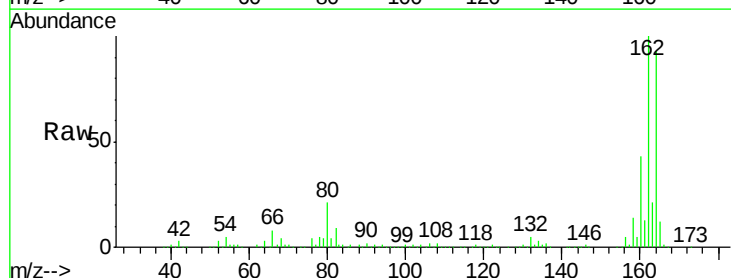
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	86.1	129.1
160	45.7	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 35.645 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Instrument :

BNA_F

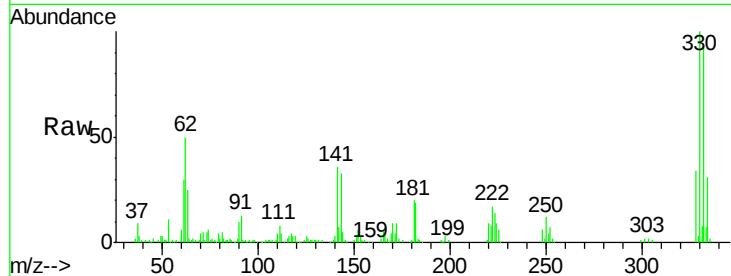
ClientSampleId :

OR-02-041018-A

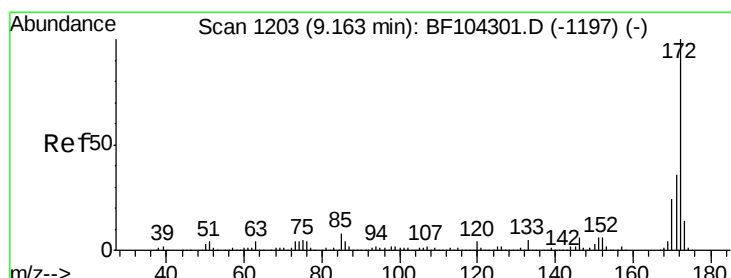
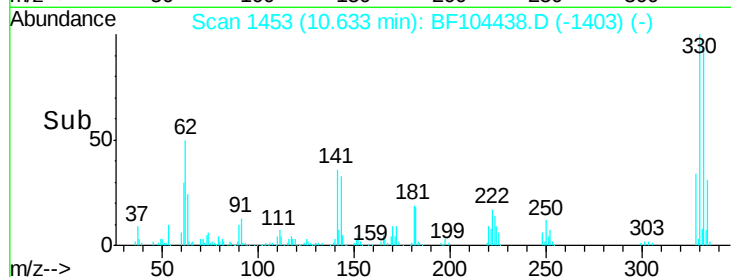
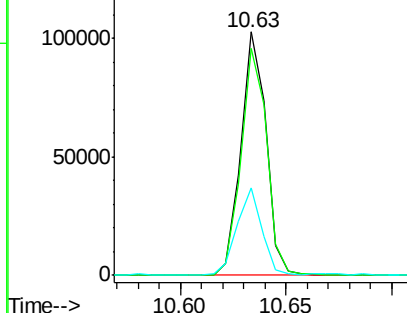
Tot Ion:	330	Resp:	84654
Ion Ratio	Lower	Upper	
330	100		
332	95.4	77.0	115.6
141	35.9	29.9	44.9

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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: 29.634 ng

RT: 9.16 min Scan# 1203

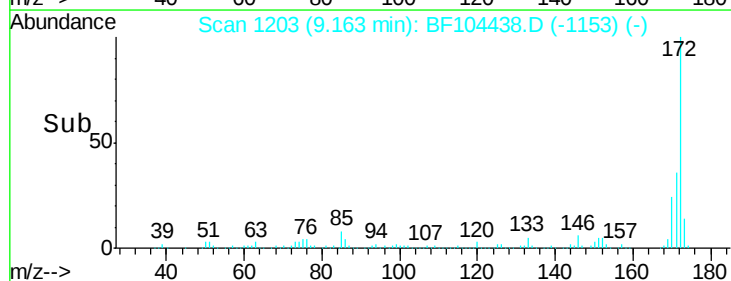
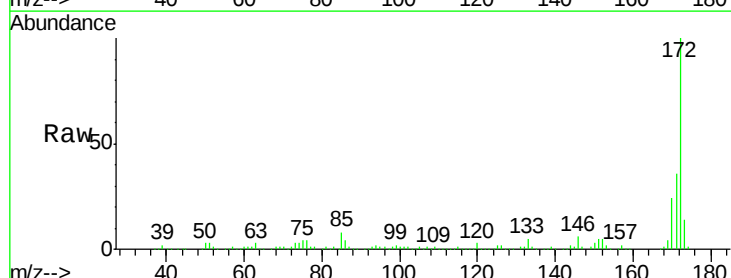
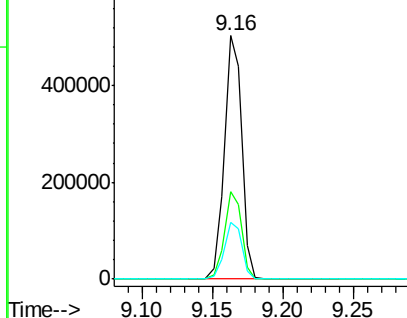
Delta R.T. -0.01 min

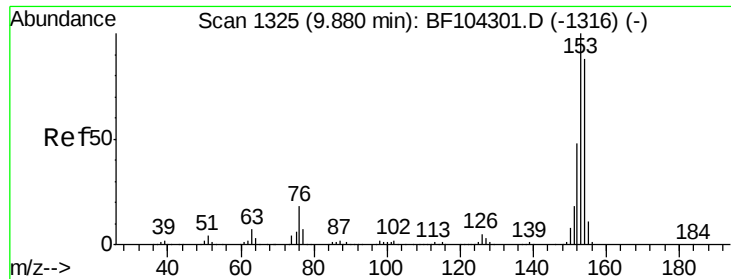
Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Tgt Ion:	172	Resp:	429465
Ion Ratio	Lower	Upper	
172	100		
171	36.1	29.7	44.5
170	23.5	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





#51

Acenaphthene

Concen: 4.245 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Instrument :

BNA_F

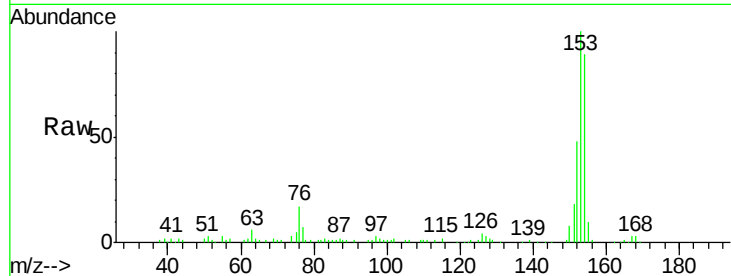
ClientSampleId :

OR-02-041018-A

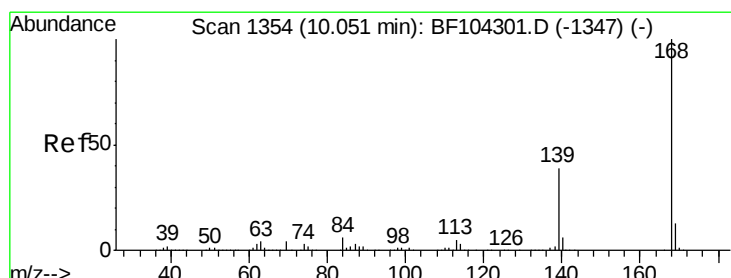
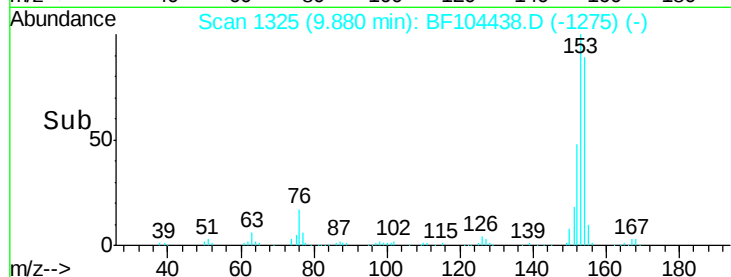
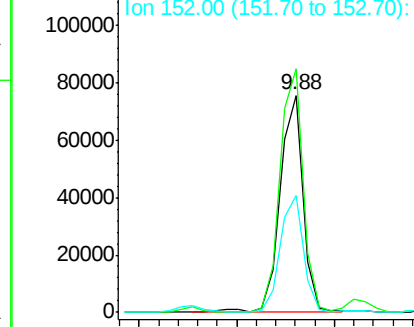
Tot Ion:	154	Resp:	61733
Ion	Ratio	Lower	Upper
154	100		
153	112.1	91.2	136.8
152	54.0	43.8	65.8

Manual Integrations
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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: 4.066 ng

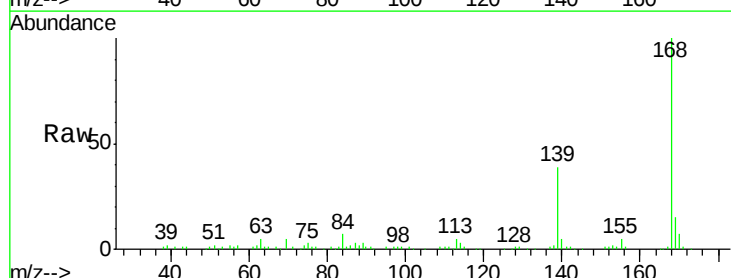
RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

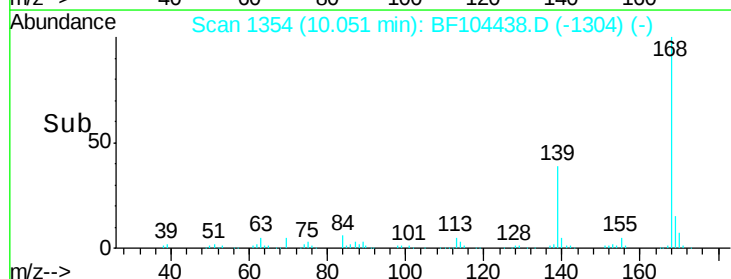
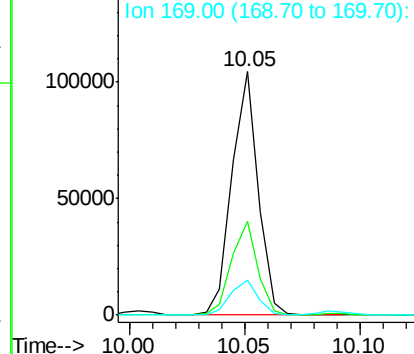
Lab File: BF104438.D

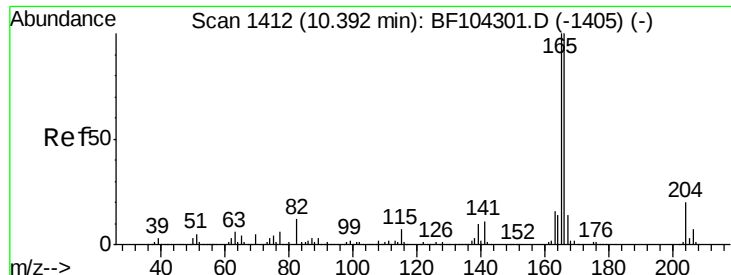
Acq: 11 Apr 2018 15:15

Tgt Ion:	168	Resp:	82399
Ion	Ratio	Lower	Upper
168	100		
139	38.5	30.1	45.1
169	14.6	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





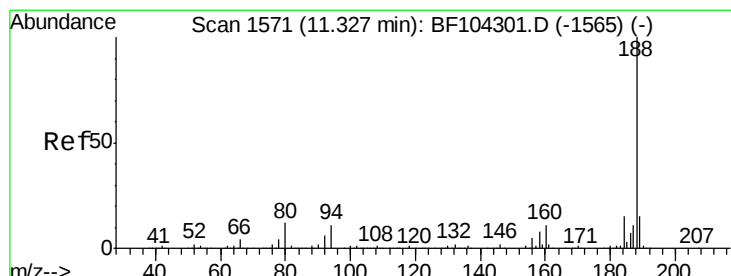
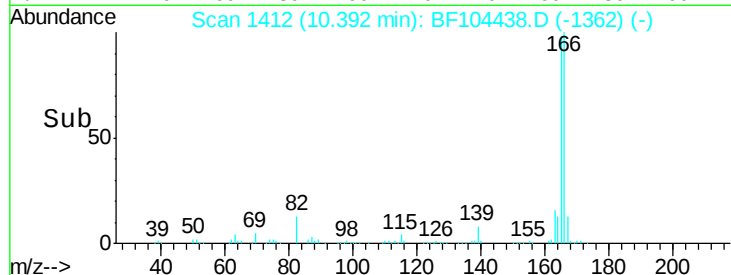
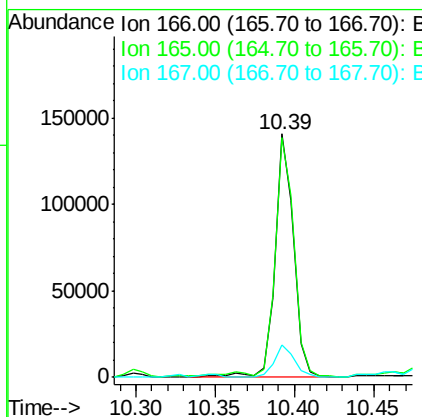
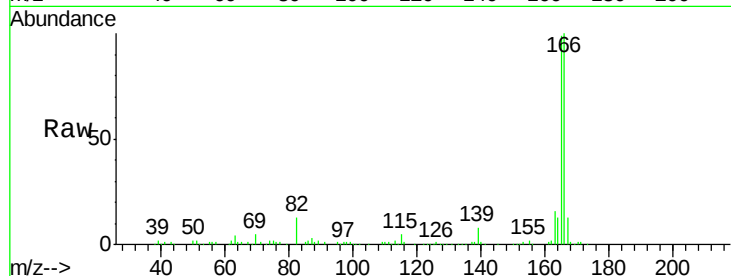
#57
Fluorene
 Concen: 7.842 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF104438.D
 Acq: 11 Apr 2018 15:15

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-041018-A

Tot Ion	Ratio	Resp	Lower	Upper
166	100	115684		
165	98.6	79.8	119.8	
167	13.4	10.6	16.0	

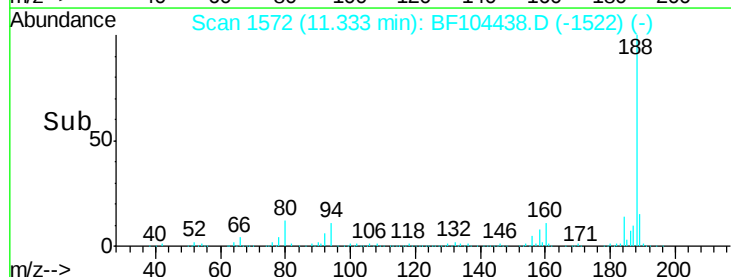
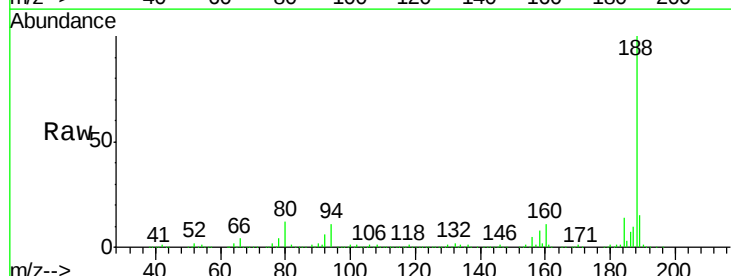
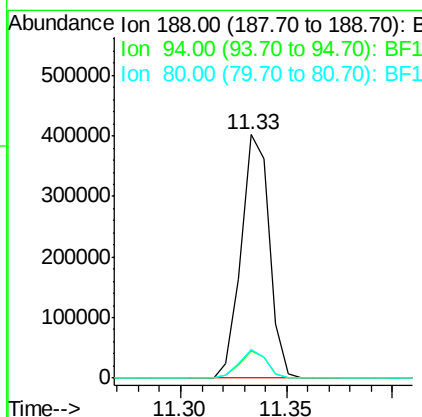
Manual Integrations
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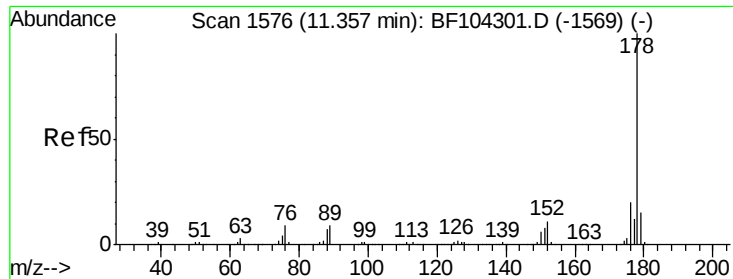
Sohil
 4/12/2018 2:30:37 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF104438.D
 Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	371597		
94	11.2	8.5	12.7	
80	11.8	9.2	13.8	





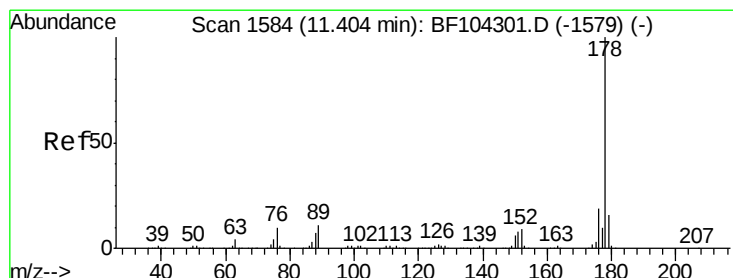
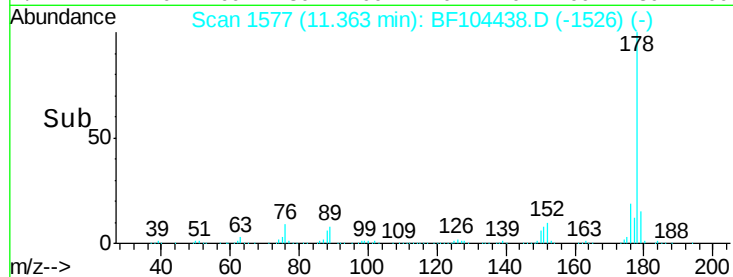
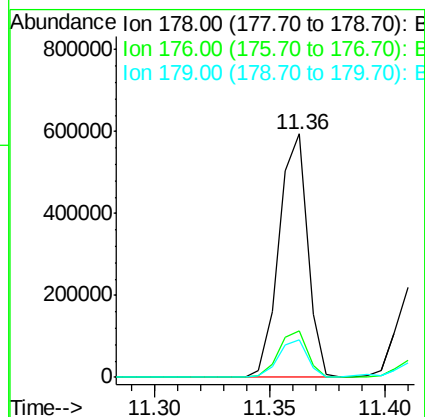
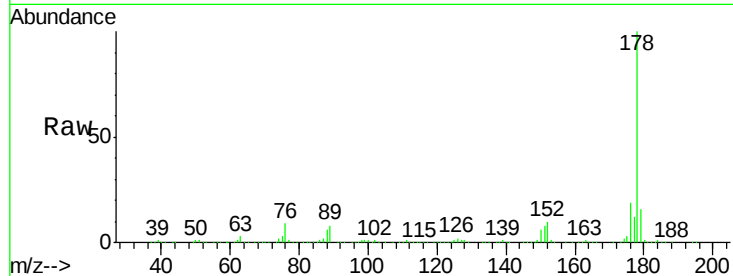
#70
Phenanthrene
Concen: 24.587 ng
RT: 11.36 min Scan# 1577
Delta R.T. 0.00 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Instrument :
BNA_F
ClientSampleId :
OR-02-041018-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.5	13.0	19.6

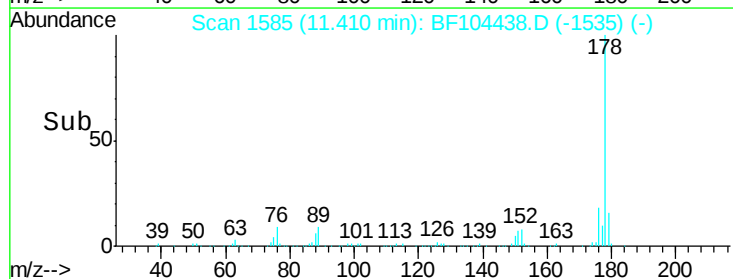
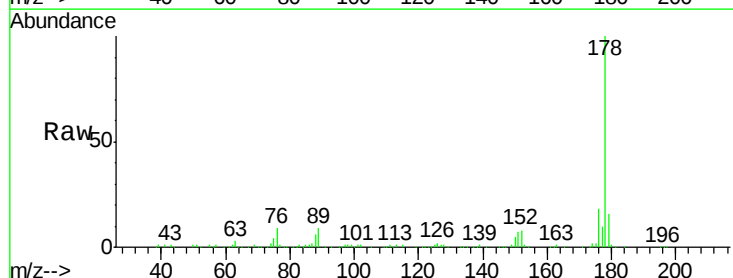
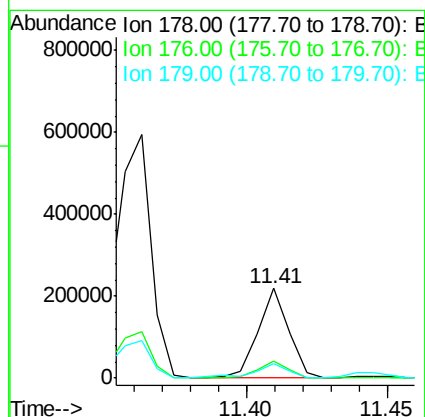
Manual Integrations
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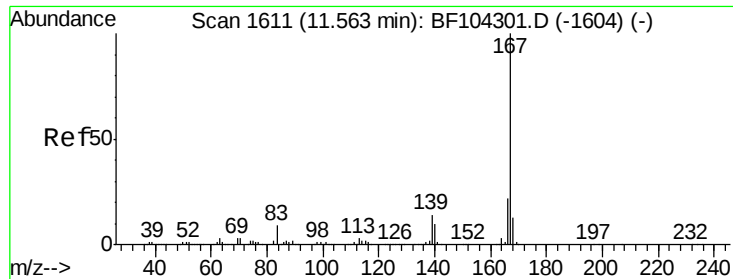
Sohil
4/12/2018 2:30:37 PM



#71
Anthracene
Concen: 7.715 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	15.7	12.6	19.0





#72

Carbazole

Concen: 2.800 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Instrument :

BNA_F

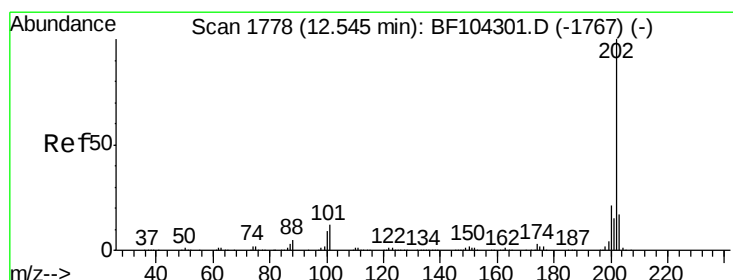
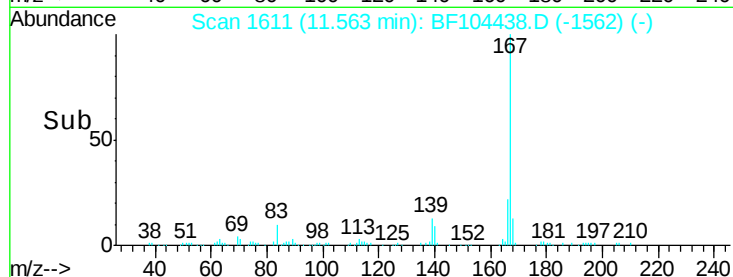
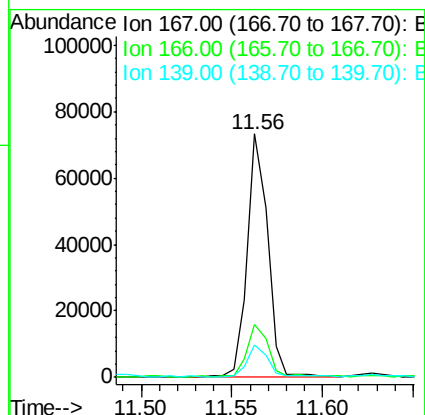
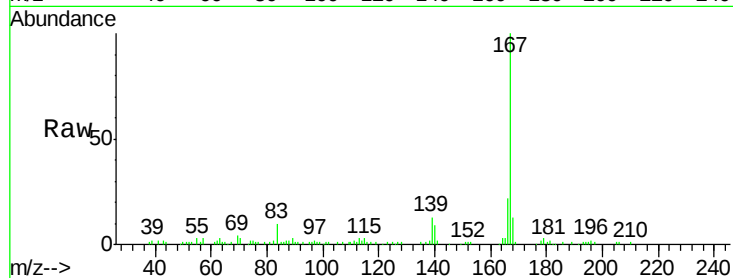
ClientSampleId :

OR-02-041018-A

Tot Ion:	167	Resp:	57549
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.6	26.4
139	13.1	10.9	16.3

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Sohil
4/12/2018 2:30:37 PM



#74

Fluoranthene

Concen: 28.202 ng

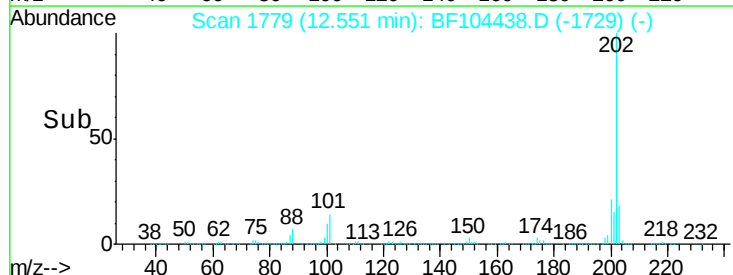
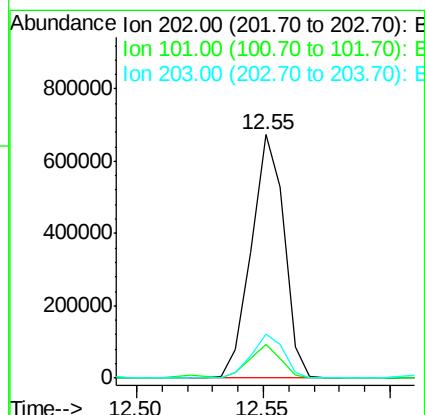
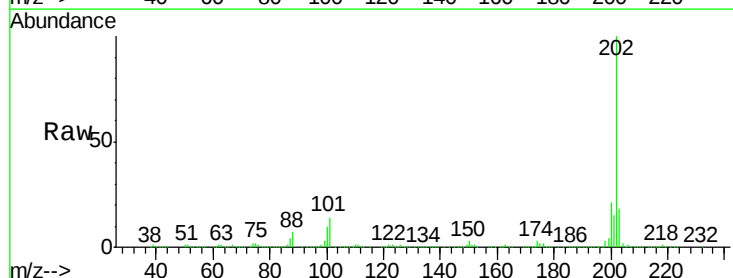
RT: 12.55 min Scan# 1779

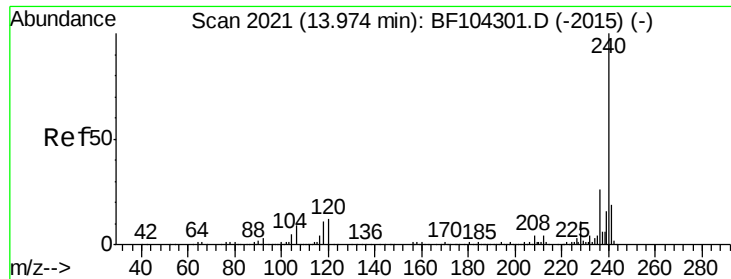
Delta R.T. -0.01 min

Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Tgt Ion:	202	Resp:	609766
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Instrument :

BNA_F

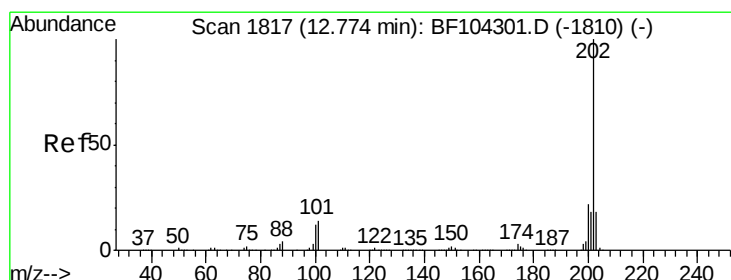
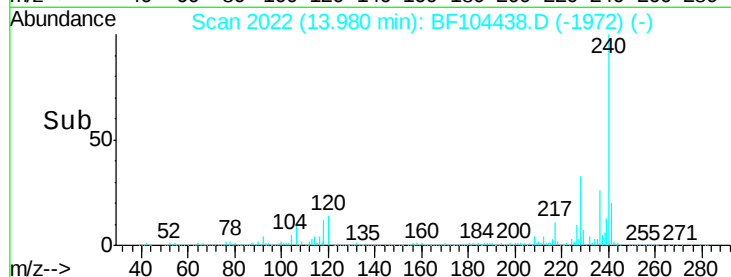
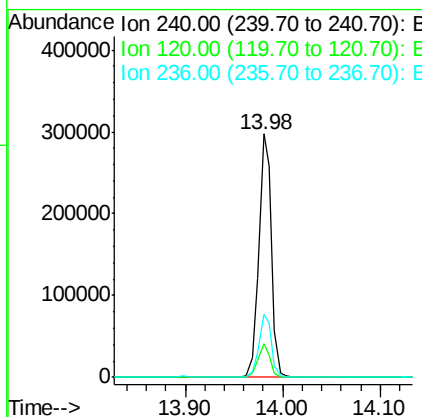
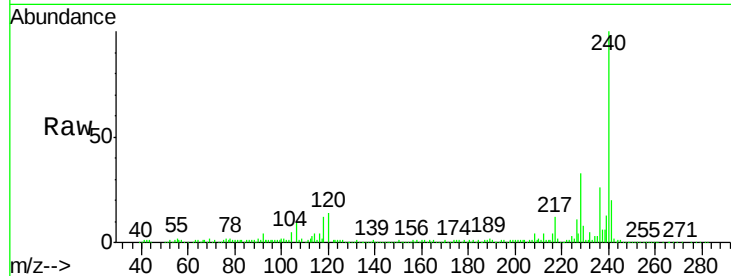
ClientSampleId :

OR-02-041018-A

Tot Ion:	240	Resp:	274498
Ion Ratio	Lower	Upper	
240	100		
120	13.7	9.5	14.3
236	25.8	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 26.860 ng

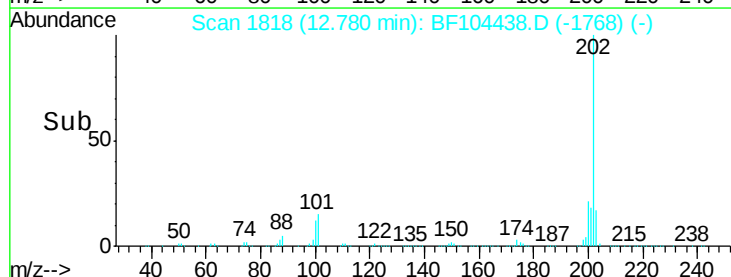
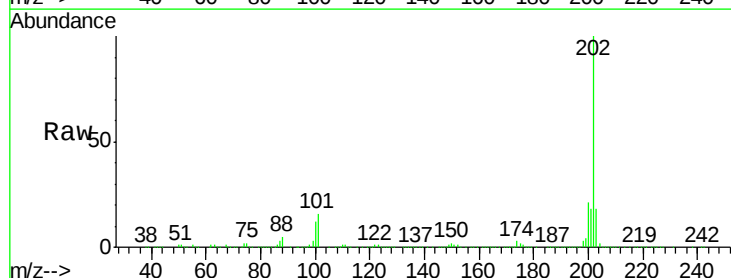
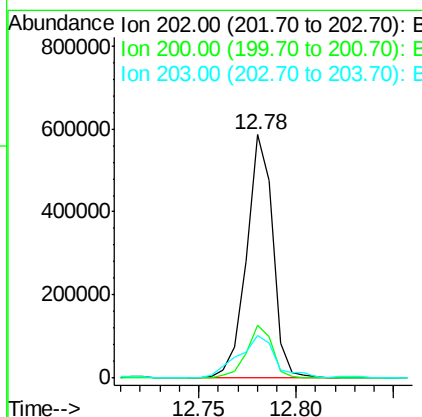
RT: 12.78 min Scan# 1818

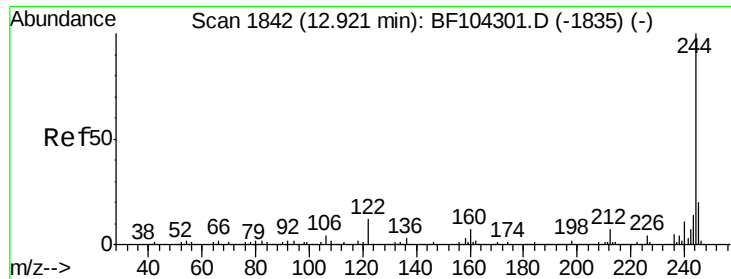
Delta R.T. -0.01 min

Lab File: BF104438.D

Acq: 11 Apr 2018 15:15

Tgt Ion:	202	Resp:	546517
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.4	26.2
203	17.6	14.3	21.5





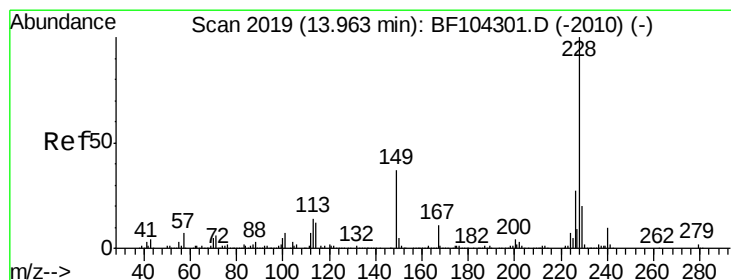
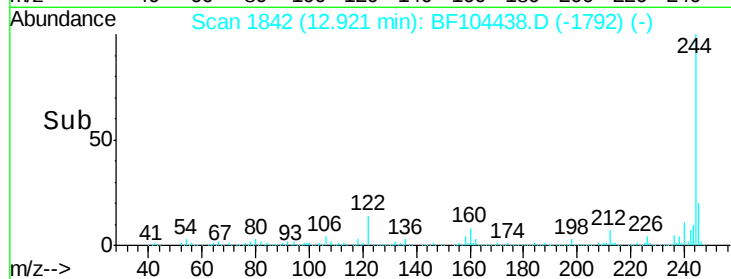
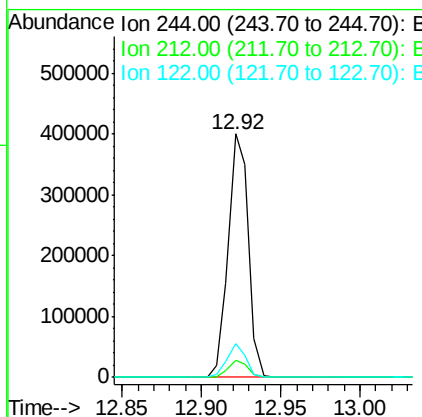
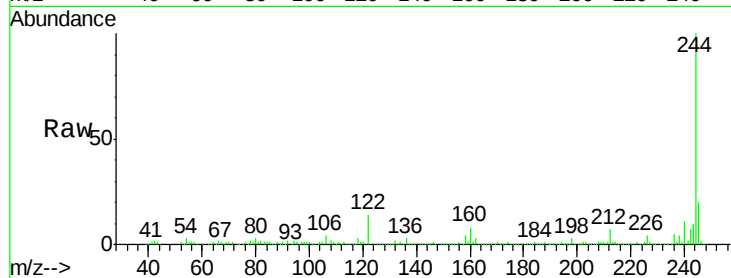
#78
 Terphenyl-d14
 Concen: 29.163 ng
 RT: 12.92 min Scan# 1842
 Delta R.T. -0.01 min
 Lab File: BF104438.D
 Acq: 11 Apr 2018 15:15

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-041018-A

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	13.7	11.0	16.4

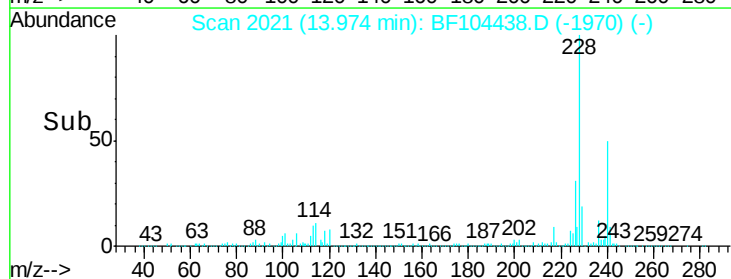
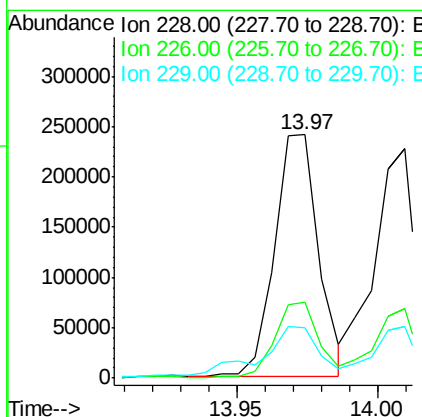
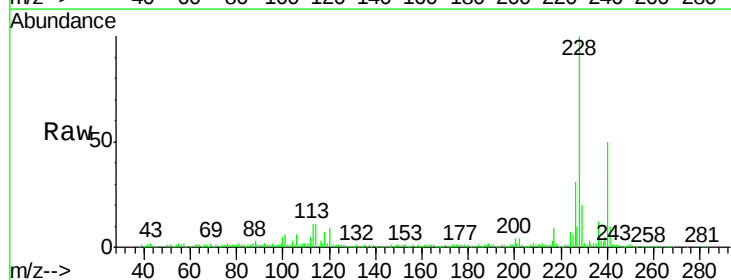
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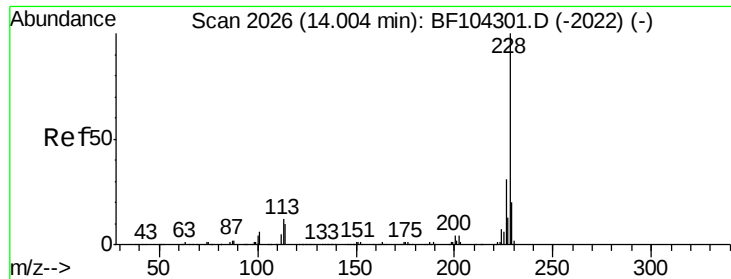
Sohil
 4/12/2018 2:30:37 PM



#80
 Benzo(a)anthracene
 Concen: 15.825 ng
 RT: 13.97 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: BF104438.D
 Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	22.6	33.8
229	20.4	15.8	23.6





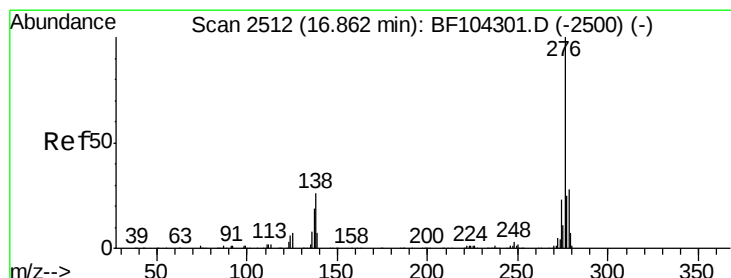
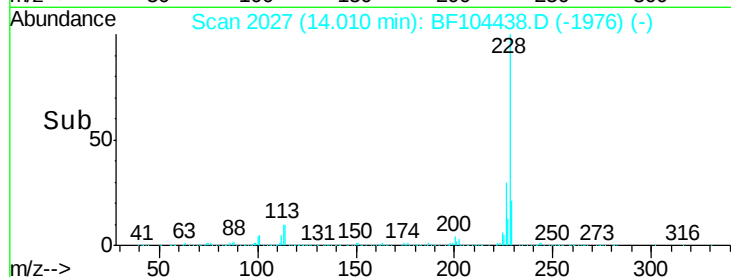
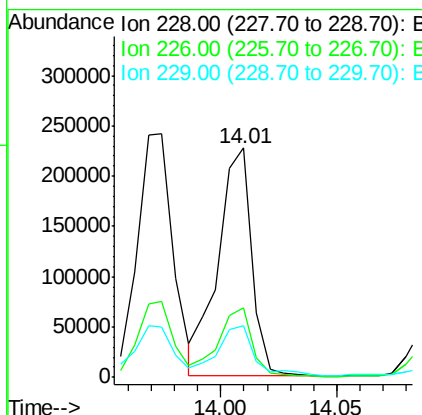
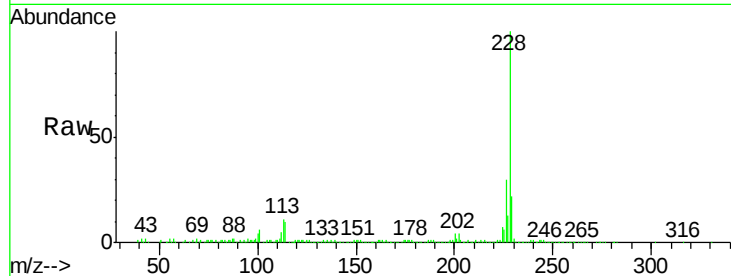
#82
 Chrysene
 Concen: 13.652 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. 0.00 min
 Lab File: BF104438.D
 Acq: 11 Apr 2018 15:15

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-041018-A

Tot Ion	Ratio	Resp	Lower	Upper
228	100	229955		
226	30.2		25.0	37.6
229	22.3		16.2	24.4

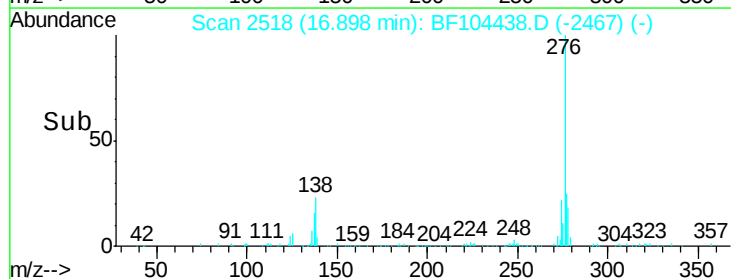
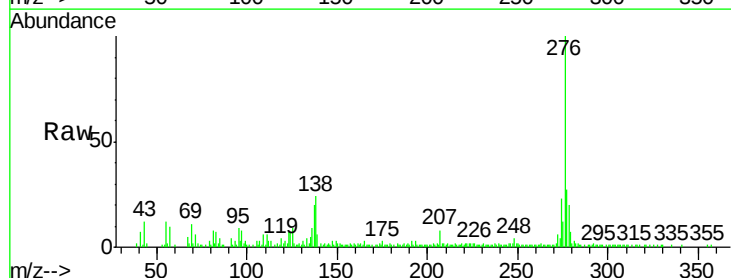
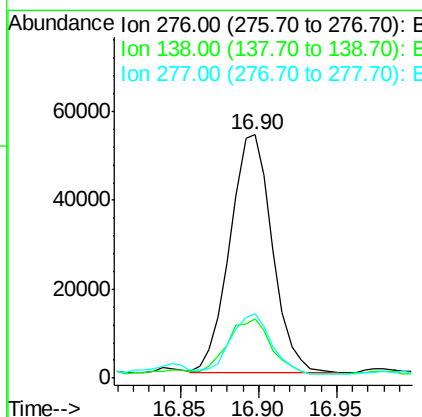
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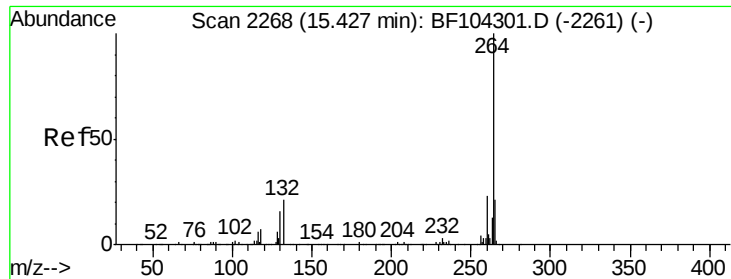
Sohil
 4/12/2018 2:30:37 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.083 ng m
 RT: 16.90 min Scan# 2518
 Delta R.T. 0.00 min
 Lab File: BF104438.D
 Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	101345		
138	6.3		25.0	37.6#
277	5.1		20.1	30.1#





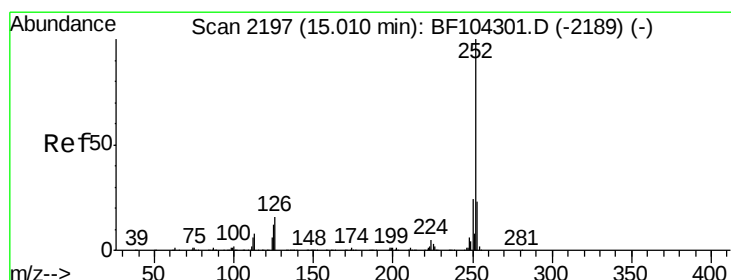
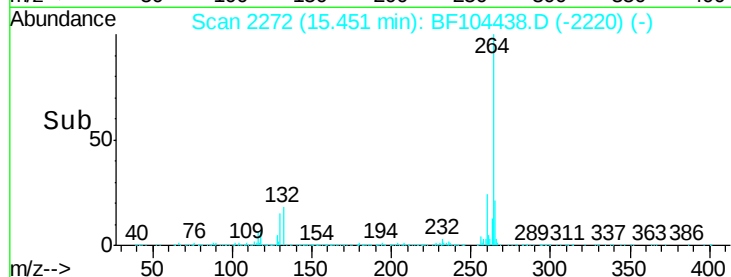
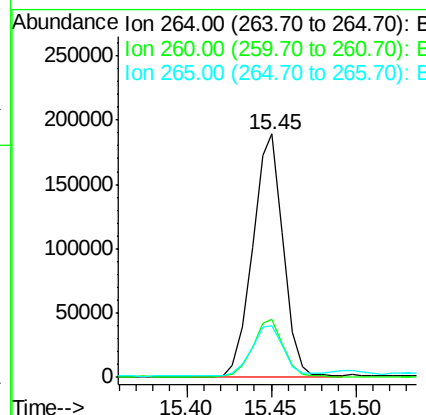
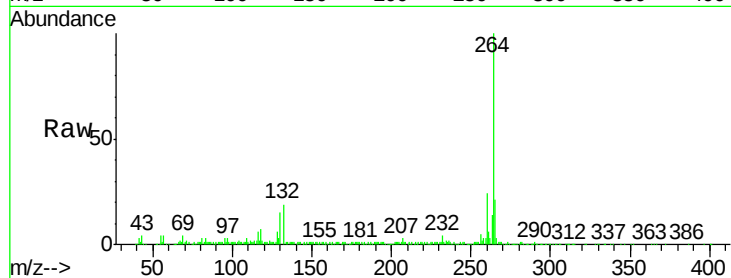
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.01 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Instrument :
BNA_F
ClientSampleId :
OR-02-041018-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.3	17.5	26.3

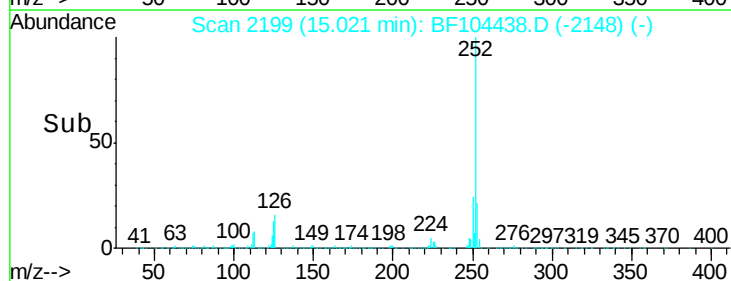
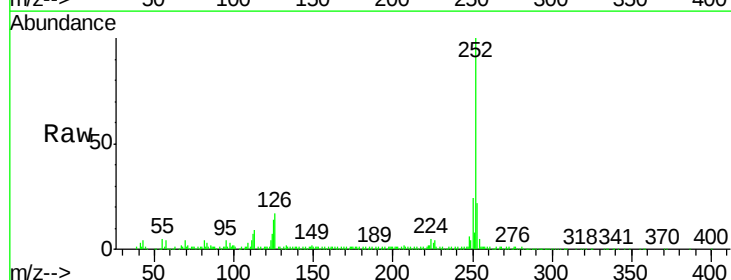
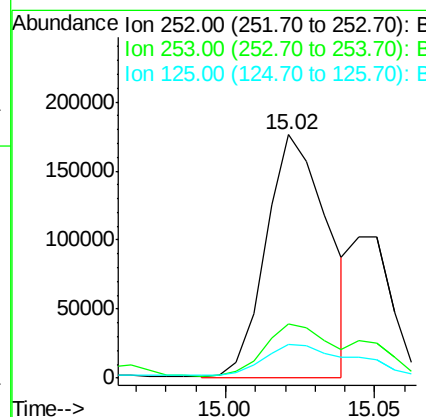
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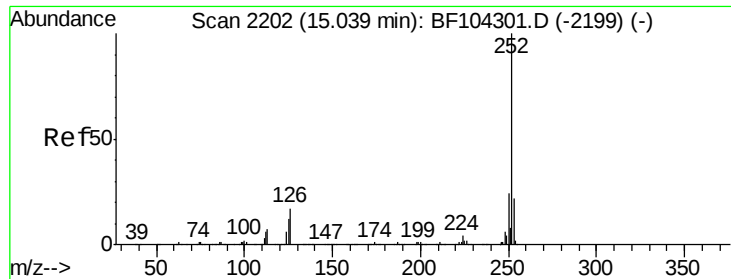
Sohil
4/12/2018 2:30:37 PM



#87
Benzo(b)fluoranthene
Concen: 17.133 ng m
RT: 15.02 min Scan# 2199
Delta R.T. 0.00 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	14.0	9.0	13.6#





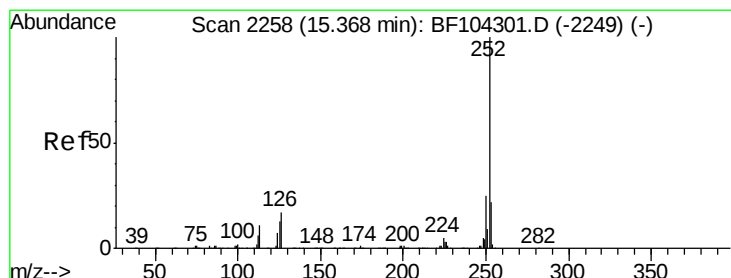
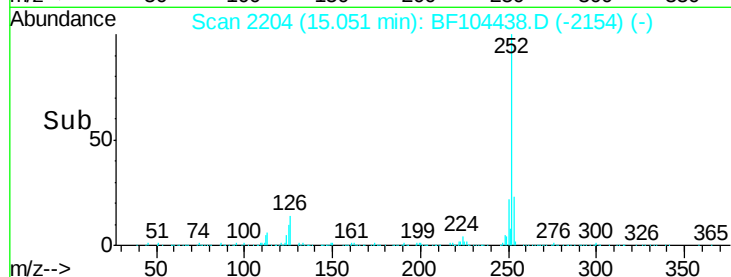
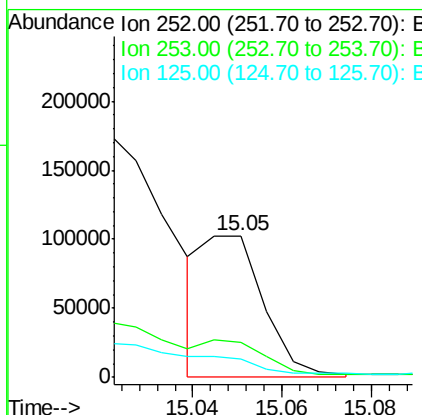
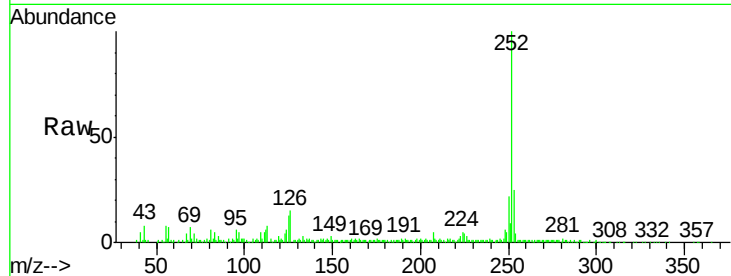
#88
Benzo(k)fluoranthene
Concen: 6.783 ng m
RT: 15.05 min Scan# 2204
Delta R.T. -0.01 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Instrument :
BNA_F
ClientSampleId :
OR-02-041018-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.9	26.9
125	12.6	10.2	15.2

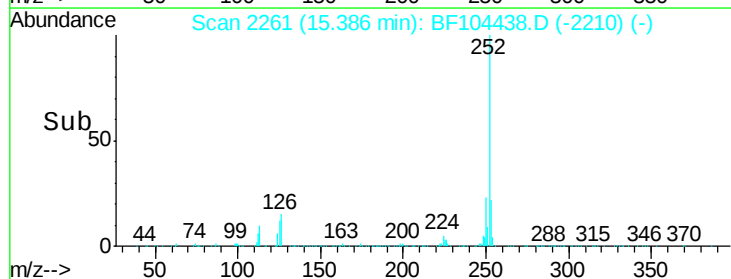
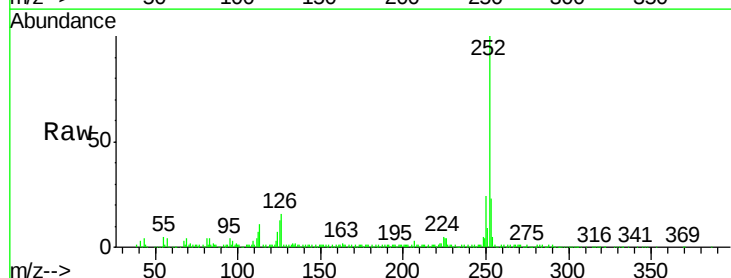
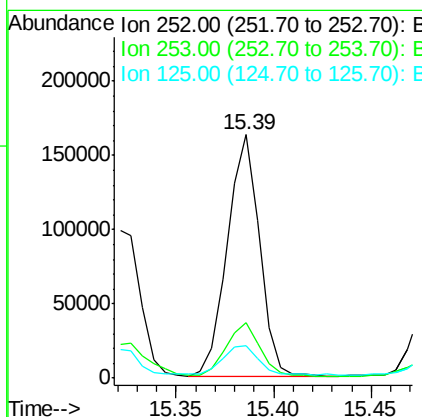
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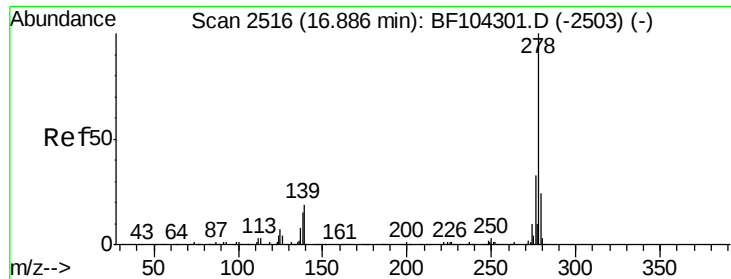
Sohil
4/12/2018 2:30:37 PM



#89
Benzo(a)pyrene
Concen: 14.119 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.00 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	13.3	9.8	14.6





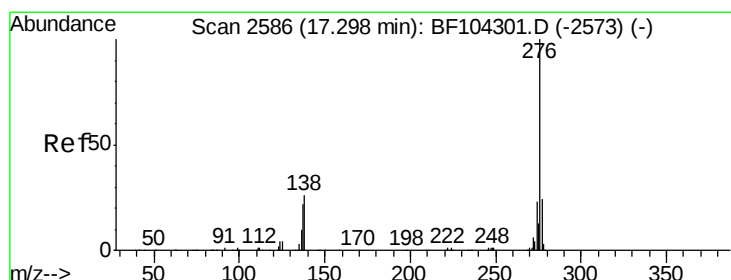
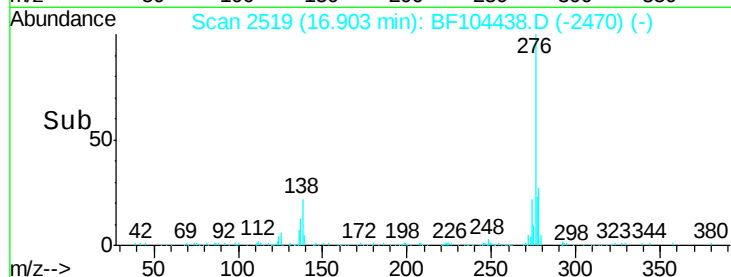
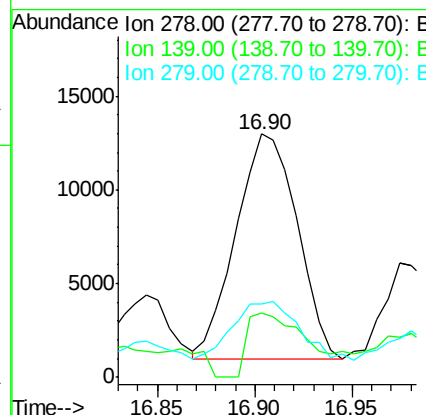
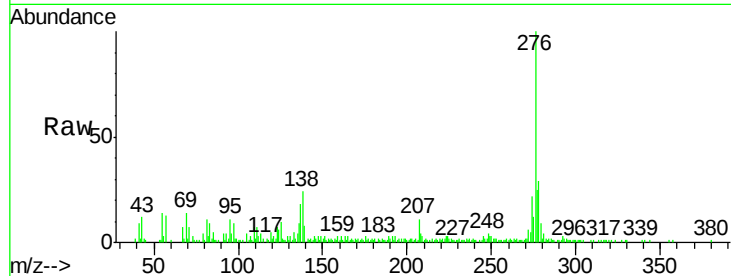
#90
Dibenzo(a,h)anthracene
Concen: 2.376 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Instrument :
BNA_F
ClientSampleId :
OR-02-041018-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.4	15.9	23.9#
279	30.2	19.0	28.4#

Manual Integrations
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Sohil
4/12/2018 2:30:37 PM



#91
Benzo(g,h,i)perylene
Concen: 9.001 ng
RT: 17.33 min Scan# 2592
Delta R.T. -0.01 min
Lab File: BF104438.D
Acq: 11 Apr 2018 15:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.5	17.9	26.9
138	27.1	21.8	32.8

