

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
 Data File : BF103886.D
 Acq On : 23 Mar 2018 17:53
 Operator : JU/SJ
 Sample : J1998-08 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW-101(1-2)

Manual Integrations
 APPROVED

Sohil
 3/26/2018 4:33:11 PM

Quant Time: Mar 24 00:59:17 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	143527	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	531490	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	207182	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	330873	20.00	ng	0.00
75) Chrysene-d12	14.17	240	239849	20.00	ng	0.00
86) Perylene-d12	15.72	264	174580	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	490277	51.96	ng	0.00
7) Phenol-d6	6.59	99	603484	52.27	ng	0.00
23) Nitrobenzene-d5	7.53	82	326336	42.82	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	105075	58.99	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	580049	44.66	ng	0.00
78) Terphenyl-d14	13.11	244	484300	46.87	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.28	128	124212	4.626	ng	99
37) 2-Methylnaphthalene	8.97	142	47483	2.789	ng	97
48) Acenaphthylene	9.88	152	174436	8.198	ng	99
49) Dimethylphthalate	9.72	163	51488	3.257	ng	# 98
51) Acenaphthene	10.05	154	34482	2.729	ng	98
54) Dibenzofuran	10.22	168	42083	2.332	ng	# 94
57) Fluorene	10.57	166	96613	6.900	ng	100
70) Phenanthrene	11.54	178	617266	34.104	ng	99
71) Anthracene	11.59	178	221535	12.051	ng	99
72) Carbazole	11.74	167	36569	2.047	ng	98
74) Fluoranthene	12.74	202	764899	41.021	ng	100
77) Pylene	12.97	202	799902	45.412	ng	99
80) Benzo(a)anthracene	14.16	228	348318m	22.942	ng	
82) Chrysene	14.20	228	325524m	22.492	ng	
85) Indeno(1,2,3-cd)pyrene	17.32	276	119696	9.470	ng	# 92
87) Benzo(b)fluoranthene	15.26	252	307898m	27.916	ng	
88) Benzo(k)fluoranthene	15.29	252	68113m	6.424	ng	
89) Benzo(a)pyrene	15.65	252	223895	22.381	ng	# 91
90) Dibenz(a,h)anthracene	17.32	278	33117	3.823	ng	# 70
91) Benzo(a,h,i)perylene	17.80	276	115758	13.736	ng	# 95

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

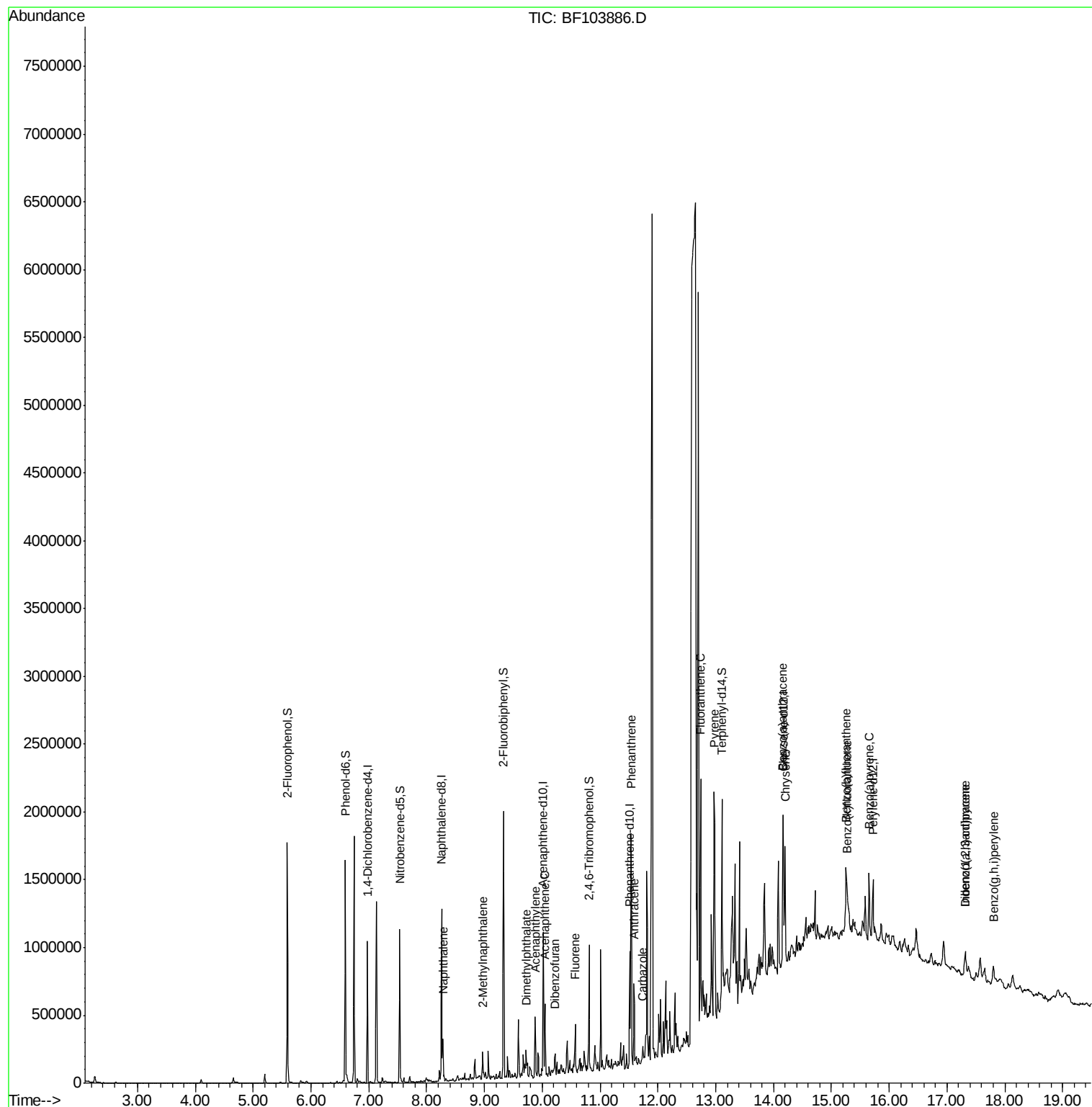
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
Data File : BF103886.D
Acq On : 23 Mar 2018 17:53
Operator : JU/SJ
Sample : J1998-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

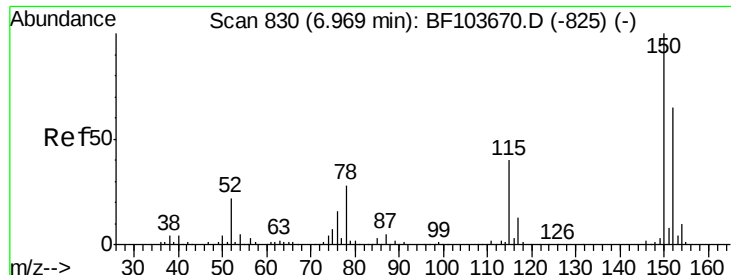
Instrument :
BNA_F
ClientSampleId :
MW-101(1-2)

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:11 PM

Quant Time: Mar 24 00:59:17 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 23 13:26:17 2018
Response via : Initial Calibration





#1

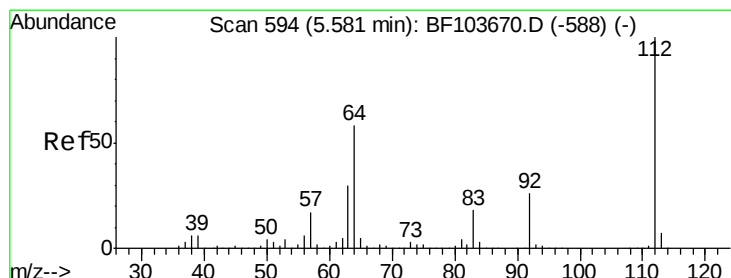
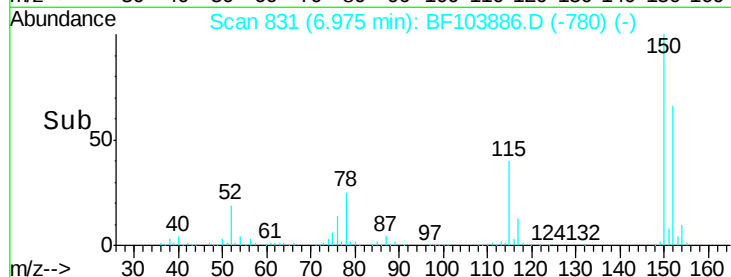
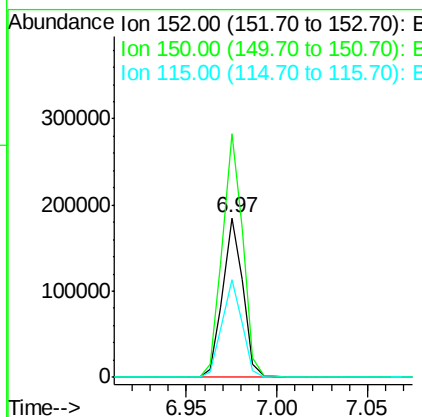
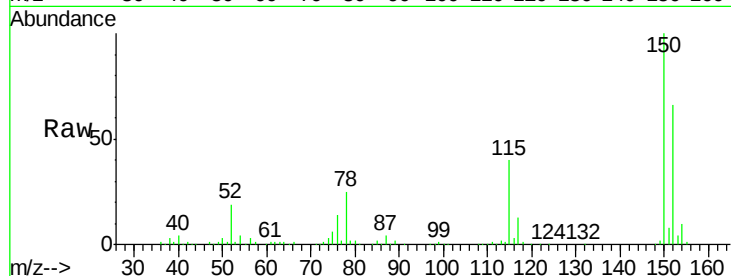
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Instrument :
BNA_F
ClientSampleId :
MW-101(1-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	124.6	186.8
115	61.4	50.1	75.1

Manual Integrations
APPROVED

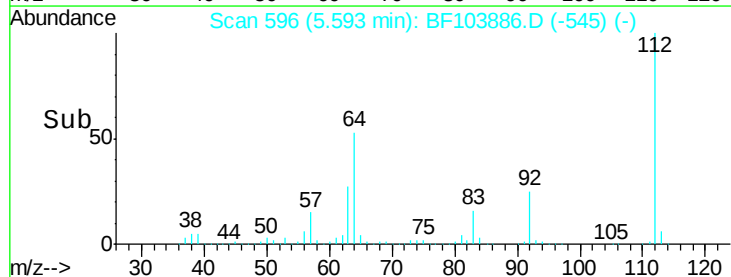
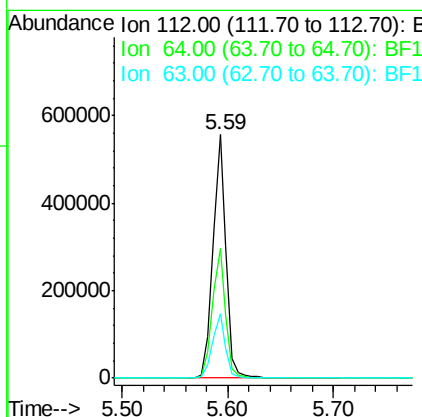
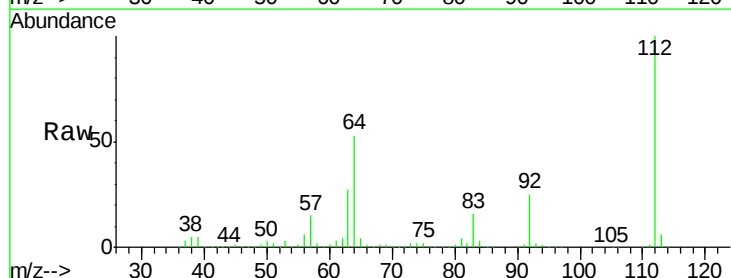
Sohil
3/26/2018 4:33:11 PM

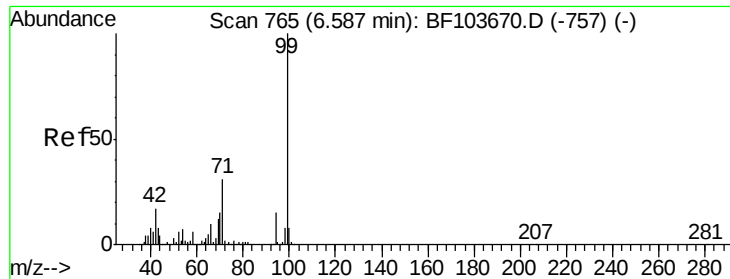


#5

2-Fluorophenol
Concen: 51.956 ng
RT: 5.59 min Scan# 596
Delta R.T. -0.00 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.5	47.9	71.9
63	26.7	23.7	35.5





#7

Phenol-d6

Concen: 52.273 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Instrument :

BNA_F

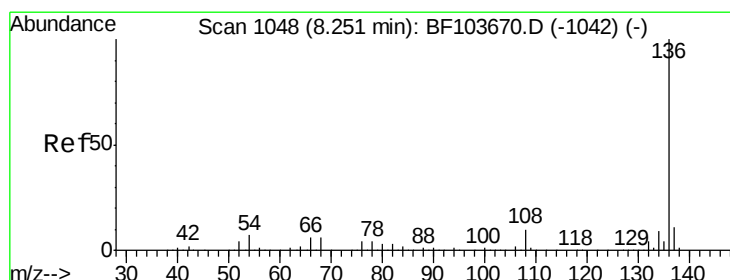
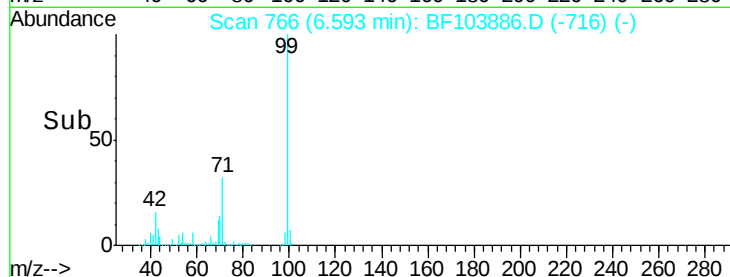
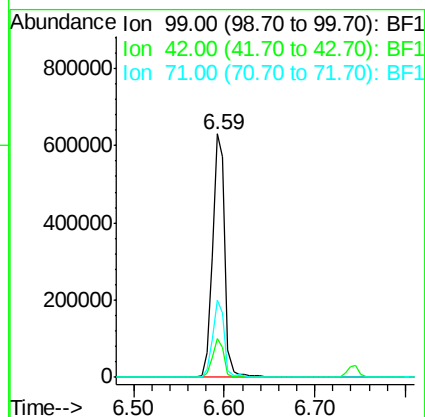
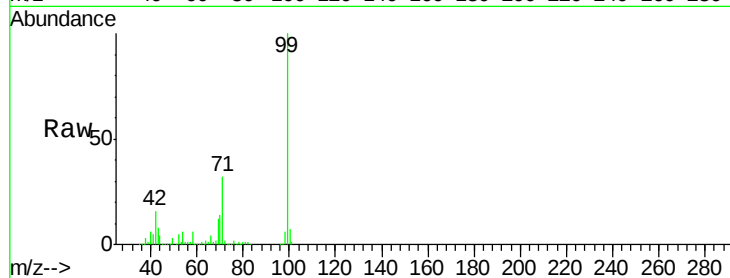
ClientSampleId :

MW-101(1-2)

Tot Ion:	99	Resp:	603484
Ion	Ratio	Lower	Upper
99	100		
42	16.0	14.5	21.7
71	31.6	25.4	38.0

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:11 PM



#21

Naphthalene-d8

Concen: 20.000 ng

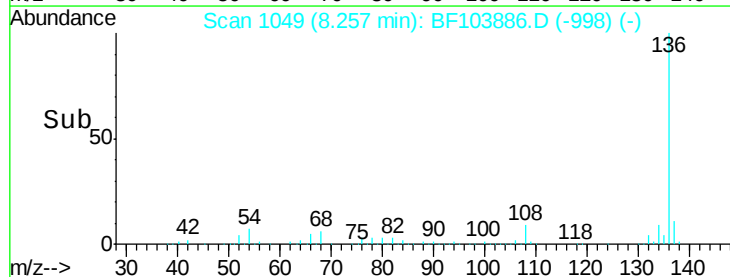
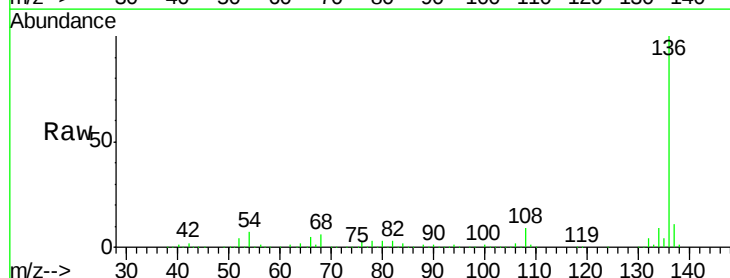
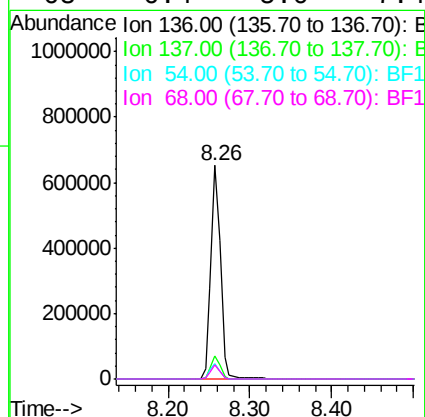
RT: 8.26 min Scan# 1049

Delta R.T. -0.00 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Tgt Ion:	136	Resp:	531490
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.1	6.6	9.8
68	6.4	5.0	7.4





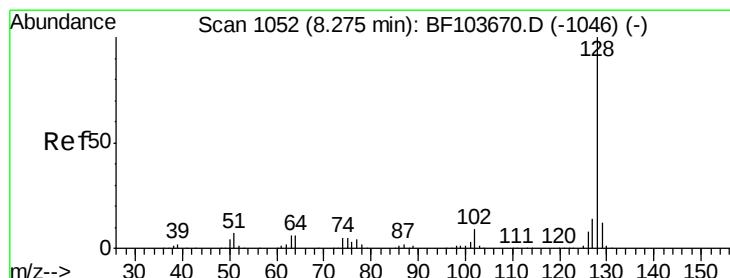
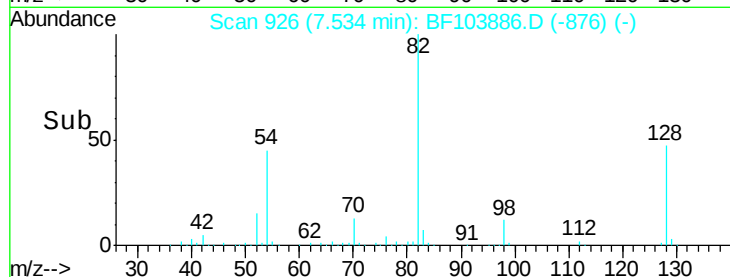
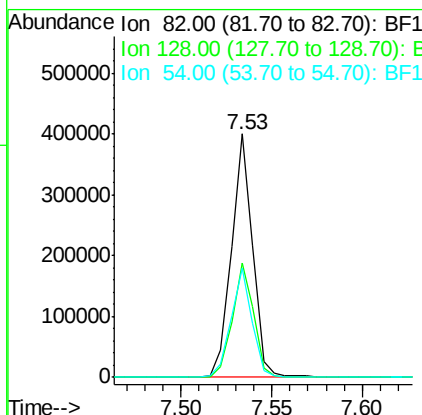
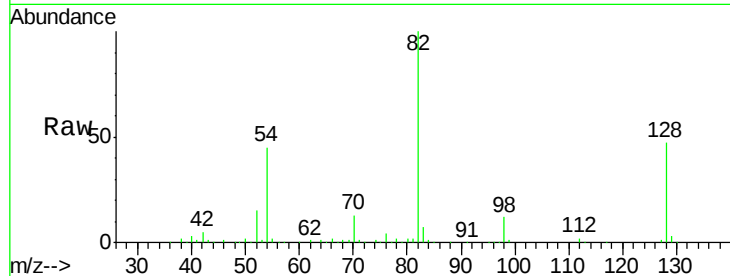
#23
 Nitrobenzene-d5
 Concen: 42.818 ng
 RT: 7.53 min Scan# 926
 Delta R.T. -0.01 min
 Lab File: BF103886.D
 Acq: 23 Mar 2018 17:53

Instrument :
 BNA_F
 ClientSampleId :
 MW-101(1-2)

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.8	36.1	54.1
54	45.0	41.4	62.2

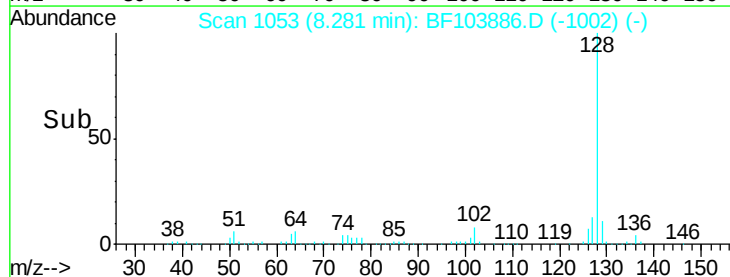
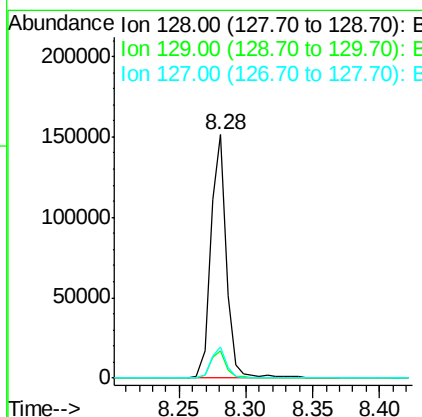
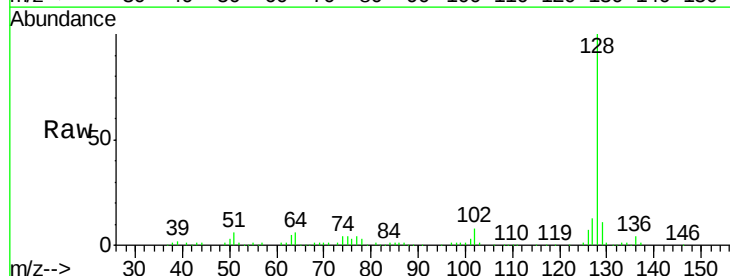
Manual Integrations
 APPROVED

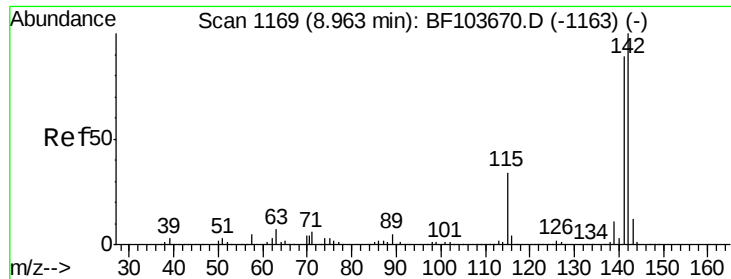
Sohil
 3/26/2018 4:33:11 PM



#31
 Naphthalene
 Concen: 4.626 ng
 RT: 8.28 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: BF103886.D
 Acq: 23 Mar 2018 17:53

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.8	10.9	16.3





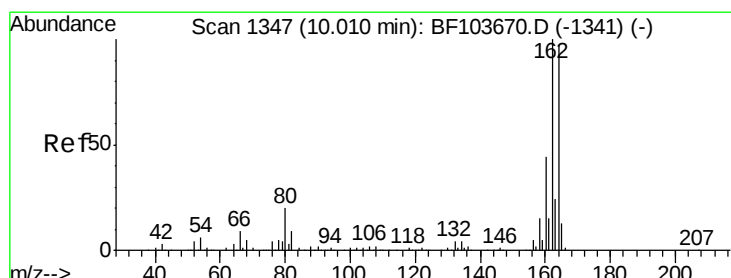
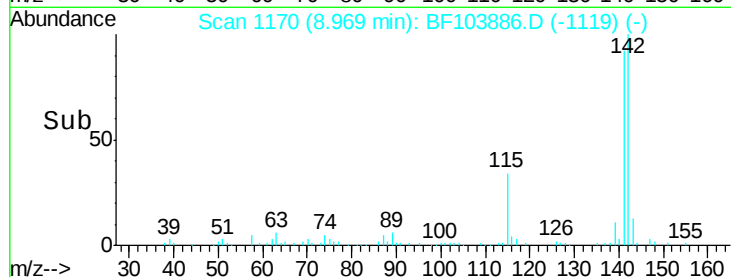
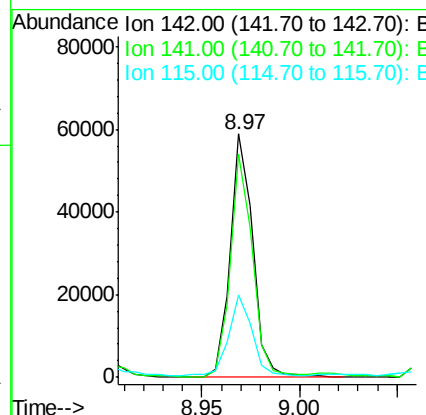
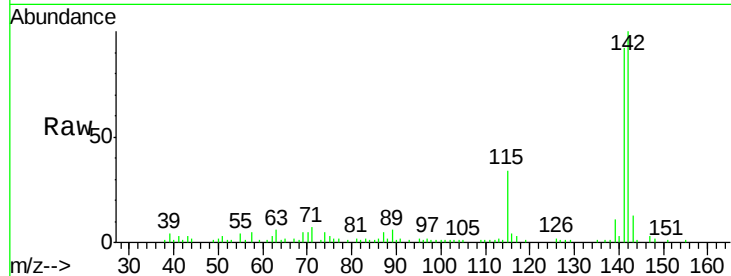
#37
2-Methylnaphthalene
Concen: 2.789 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Instrument :
BNA_F
ClientSampleId :
MW-101(1-2)

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.8	70.8	106.2
115	34.0	26.1	39.1

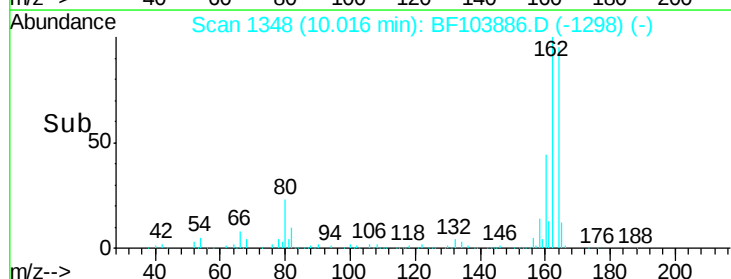
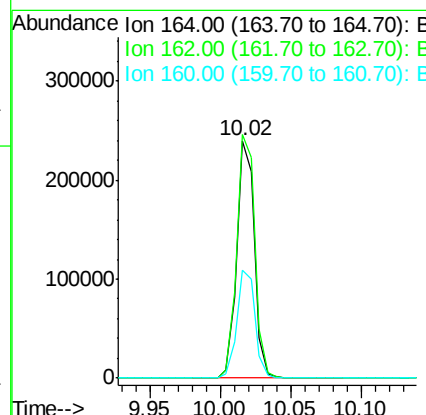
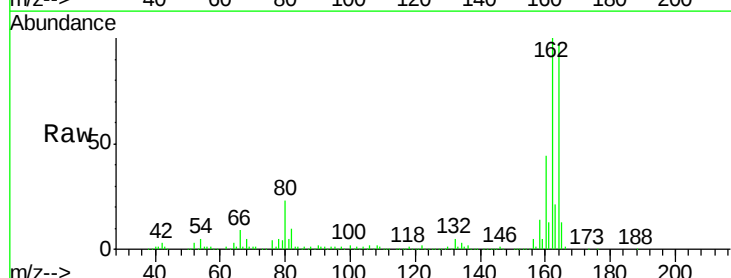
Manual Integrations
APPROVED

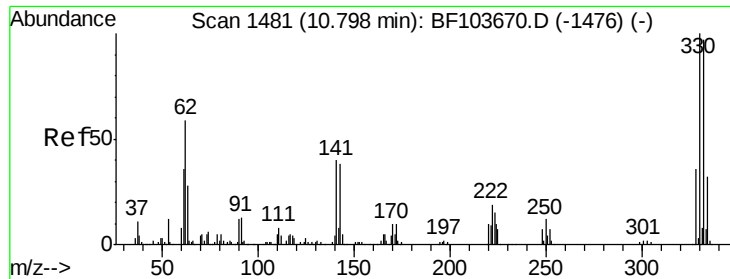
Sohil
3/26/2018 4:33:11 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	86.1	129.1
160	45.7	38.3	57.5





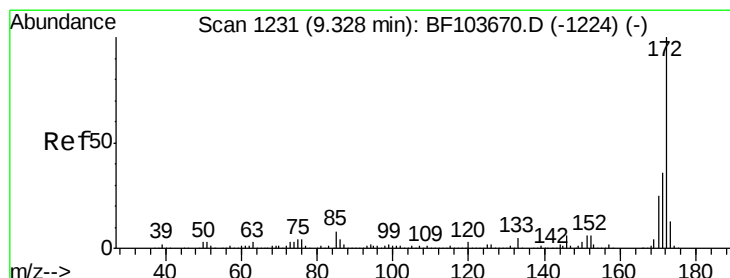
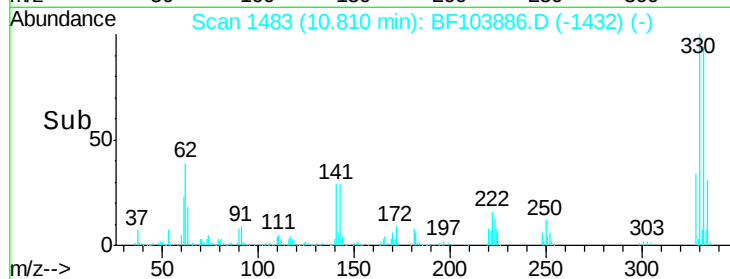
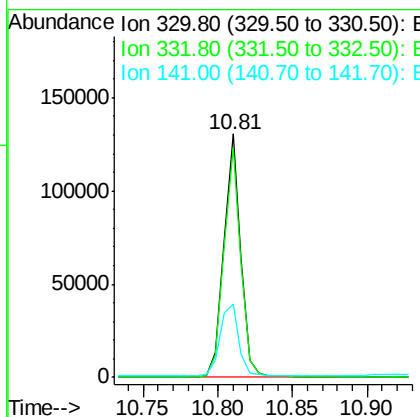
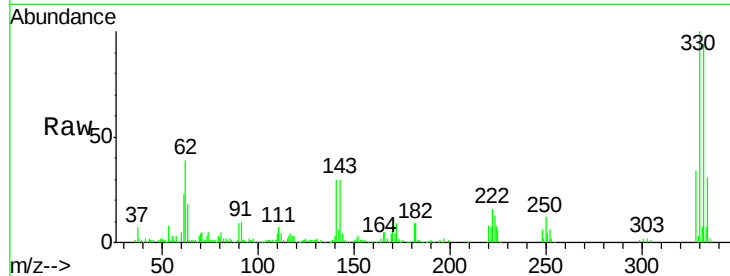
#41
 2,4,6-Tribromophenol
 Concen: 58.986 ng
 RT: 10.81 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: BF103886.D
 Acq: 23 Mar 2018 17:53

Instrument :
 BNA_F
 ClientSampleId :
 MW-101(1-2)

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.0	115.6
141	33.8	29.9	44.9

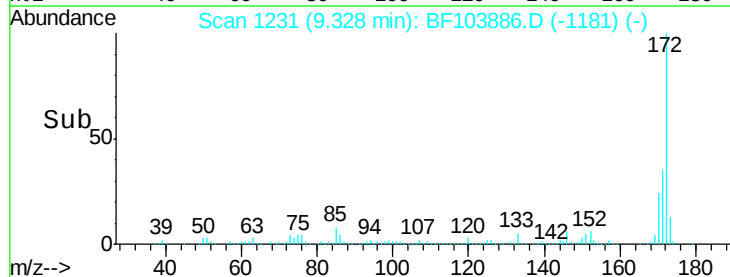
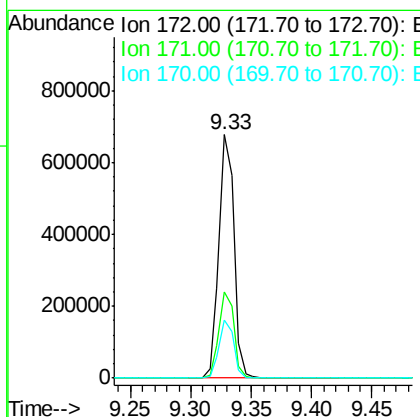
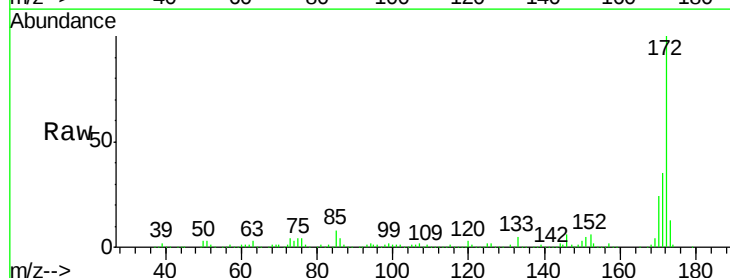
Manual Integrations
 APPROVED

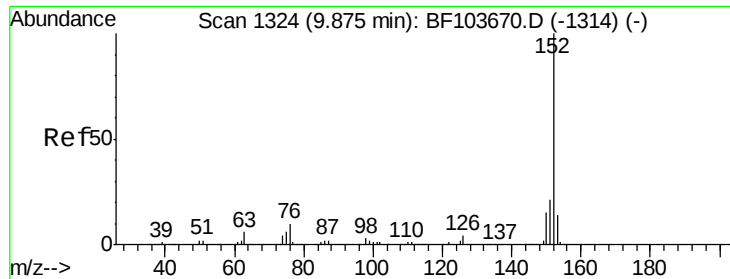
Sohil
 3/26/2018 4:33:11 PM



#44
 2-Fluorobiphenyl
 Concen: 44.660 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103886.D
 Acq: 23 Mar 2018 17:53

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.7	44.5
170	23.8	19.6	29.4





#48

Acenaphthylene

Concen: 8.198 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Instrument :

BNA_F

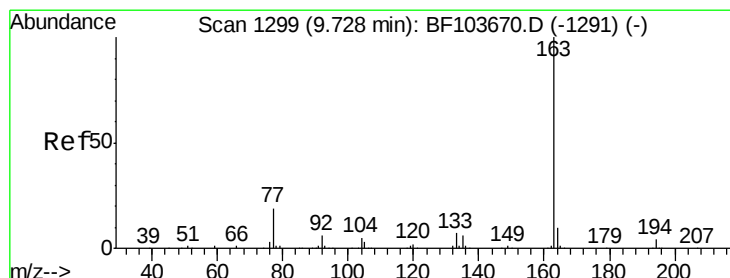
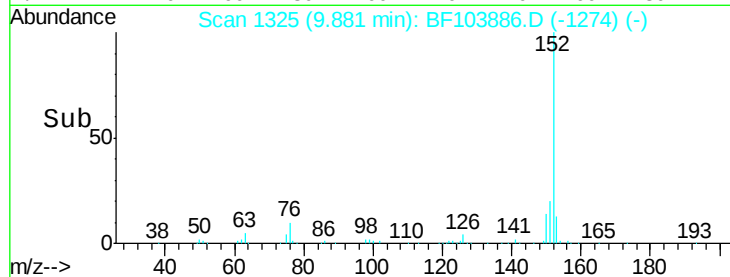
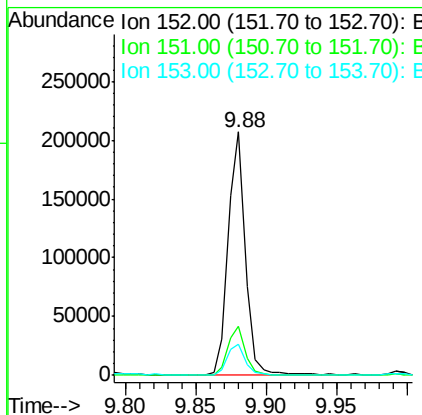
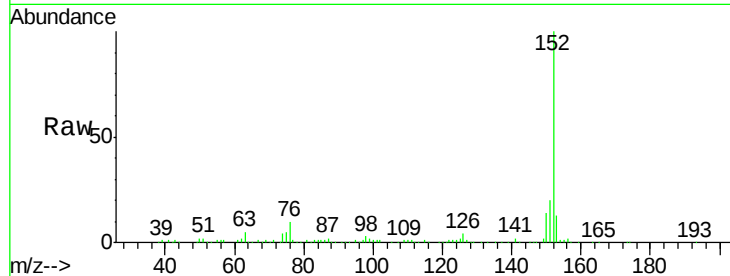
ClientSampled :

MW-101(1-2)

Tot Ion:	152	Resp:	174436
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.3	24.5
153	12.7	10.7	16.1

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:11 PM



#49

Dimethylphthalate

Concen: 3.257 ng

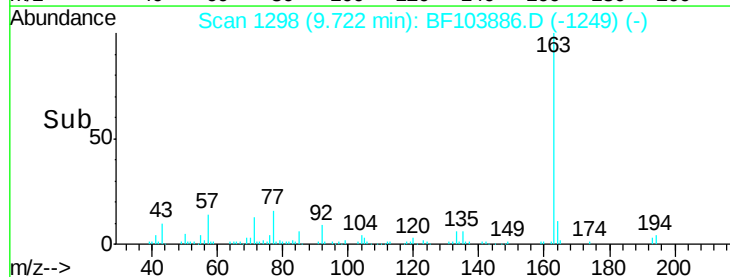
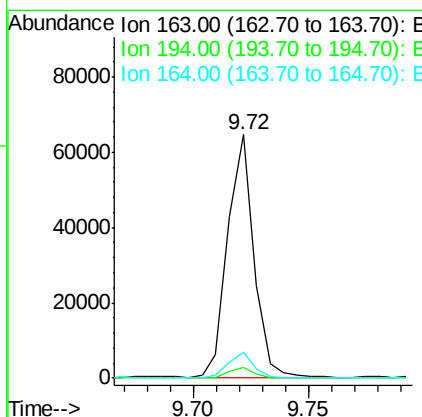
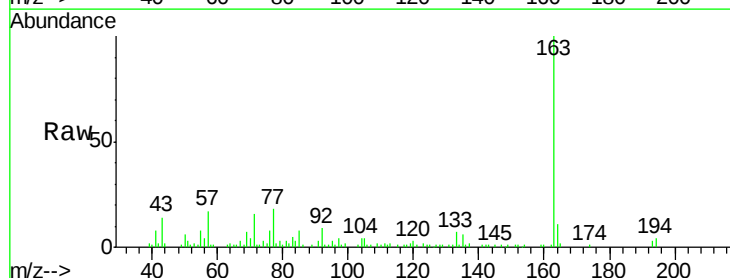
RT: 9.72 min Scan# 1298

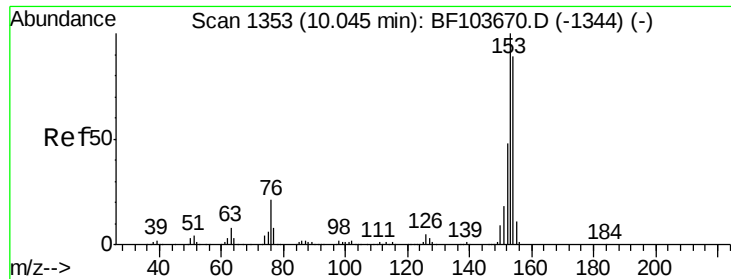
Delta R.T. -0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Tgt Ion:	163	Resp:	51488
Ion Ratio	Lower	Upper	
163	100		
194	4.3	2.7	4.1#
164	10.8	8.2	12.2





#51

Acenaphthene

Concen: 2.729 ng

RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Instrument :

BNA_F

ClientSampleId :

MW-101(1-2)

Tot Ion:154 Resp: 34482

Ion Ratio Lower Upper

154 100

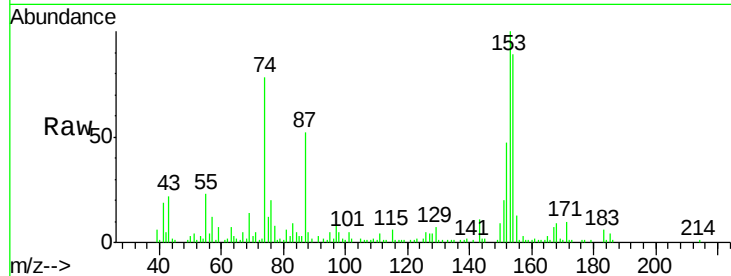
153 112.4 91.2 136.8

152 52.8 43.8 65.8

Manual Integrations
APPROVED

Sohil

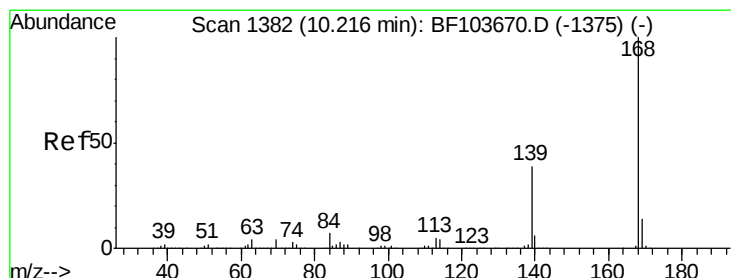
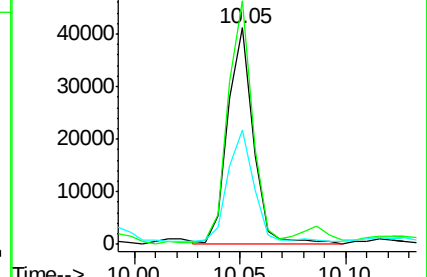
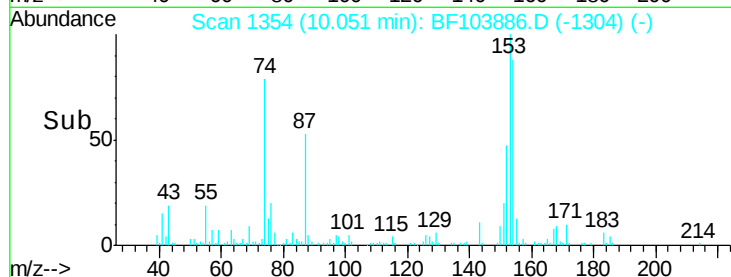
3/26/2018 4:33:11 PM



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: 2.332 ng

RT: 10.22 min Scan# 1383

Delta R.T. -0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

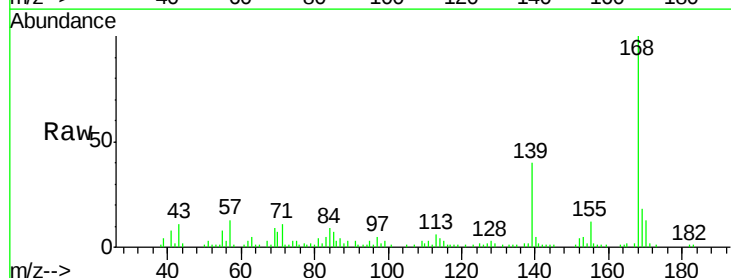
Tgt Ion:168 Resp: 42083

Ion Ratio Lower Upper

168 100

139 39.8 30.1 45.1

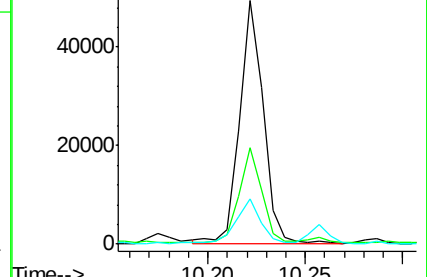
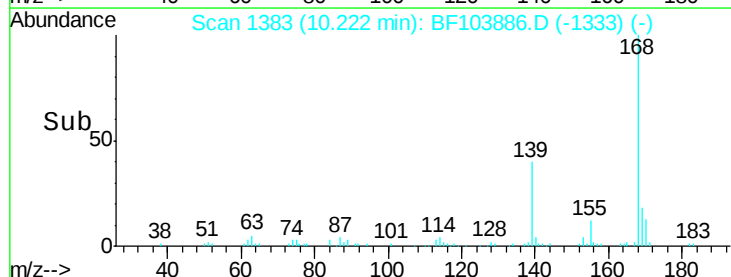
169 18.4 10.9 16.3#

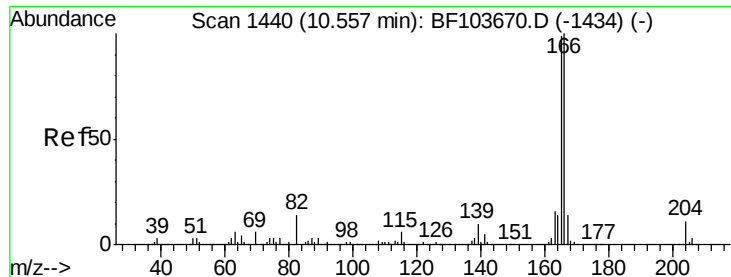


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





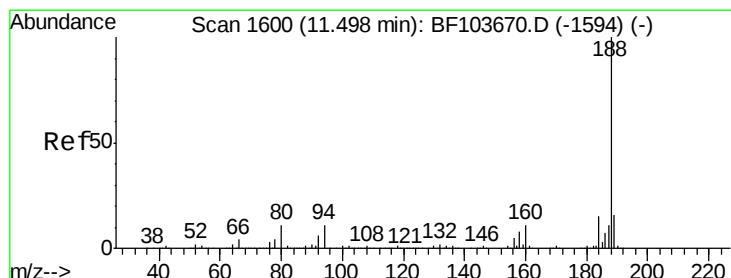
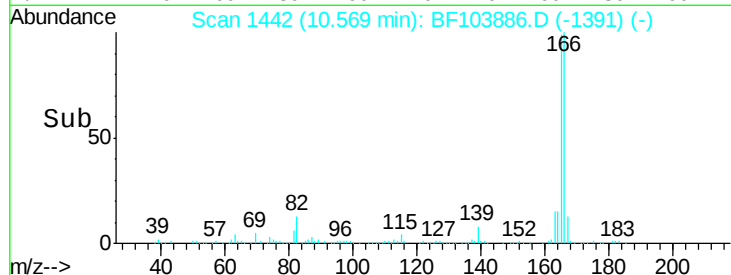
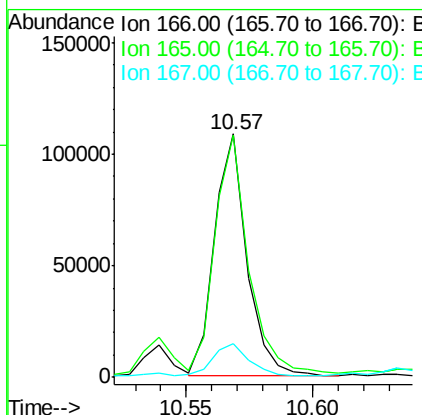
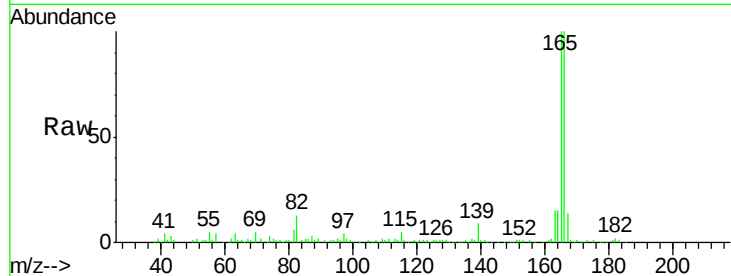
#57
Fluorene
 Concen: 6.900 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. -0.00 min
 Lab File: BF103886.D
 Acq: 23 Mar 2018 17:53

Instrument :
 BNA_F
 ClientSampled :
 MW-101(1-2)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	99.8	79.8	119.8		
167	14.0	10.6	16.0		

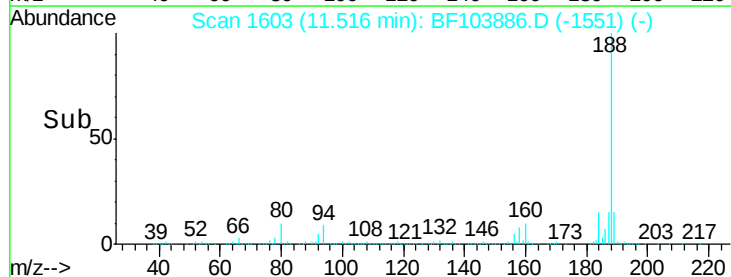
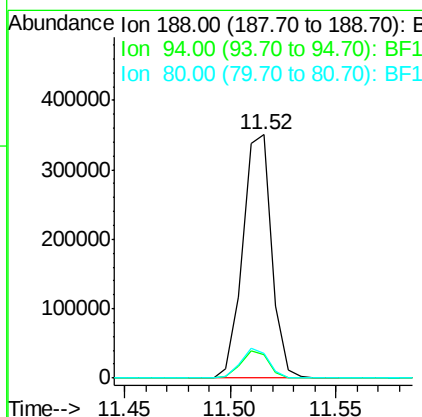
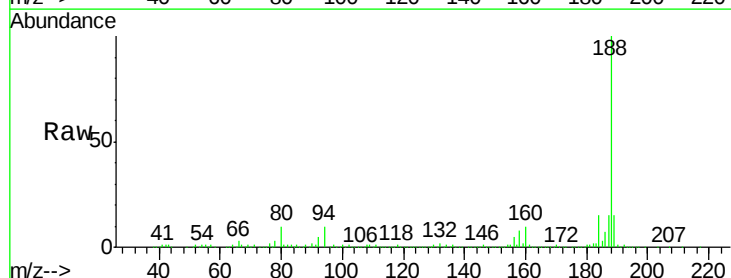
Manual Integrations
 APPROVED

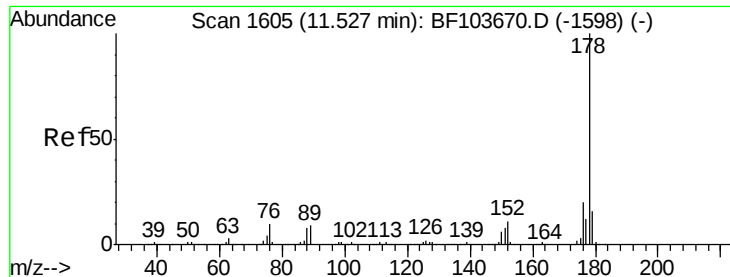
Sohil
 3/26/2018 4:33:11 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. 0.01 min
 Lab File: BF103886.D
 Acq: 23 Mar 2018 17:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	9.6	8.5	12.7		
80	10.3	9.2	13.8		





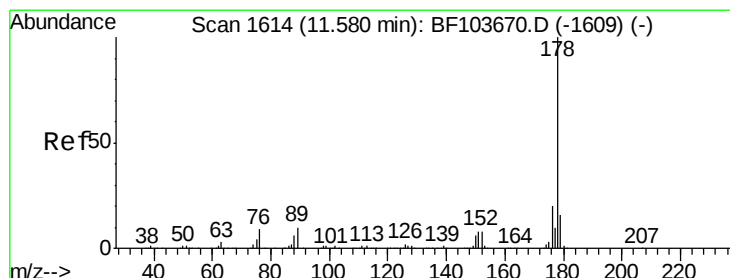
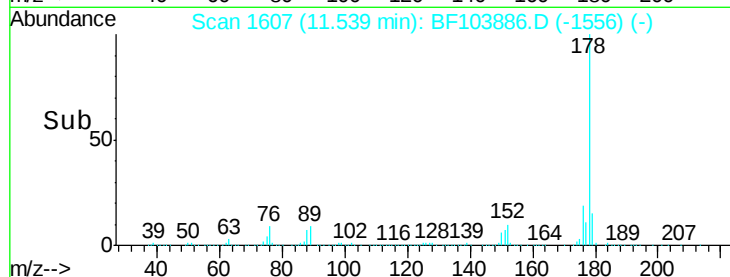
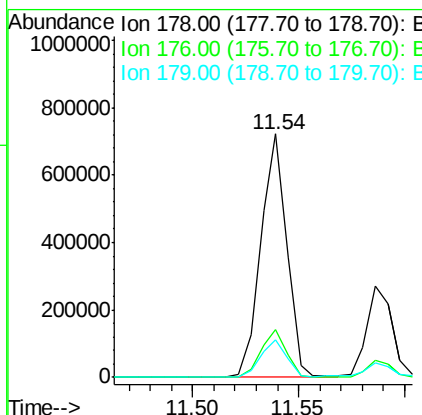
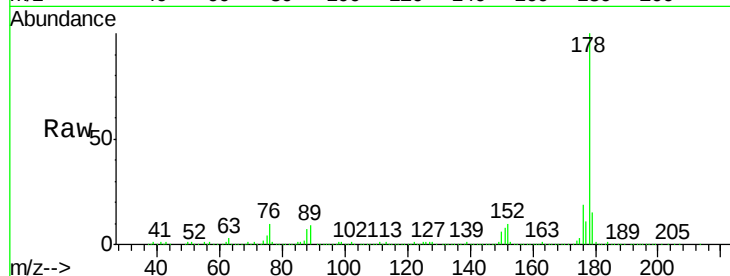
#70
Phenanthrene
Concen: 34.104 ng
RT: 11.54 min Scan# 1607
Delta R.T. -0.00 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Instrument :
BNA_F
ClientSampleId :
MW-101(1-2)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.5	13.0	19.6

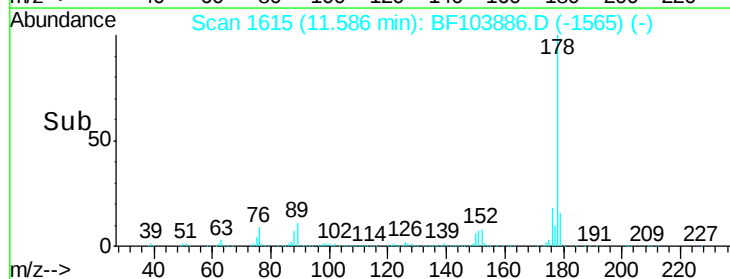
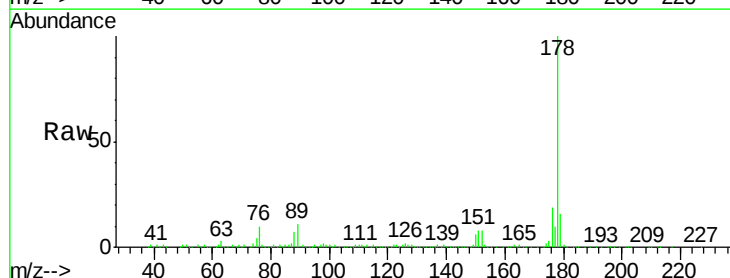
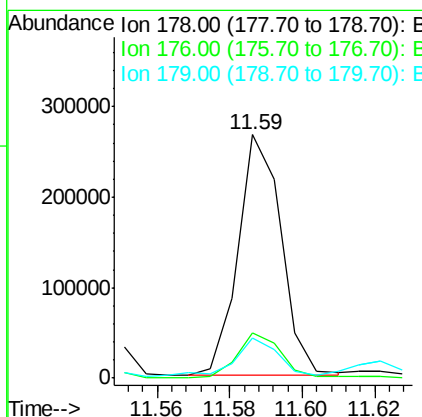
Manual Integrations
APPROVED

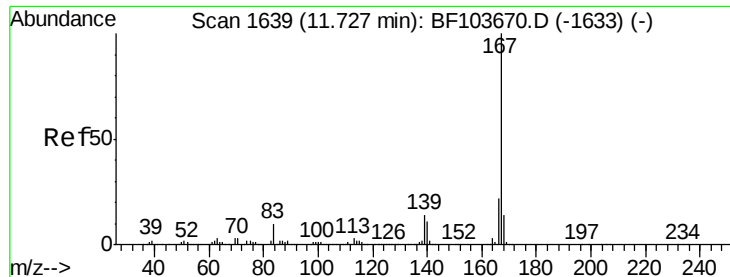
Sohil
3/26/2018 4:33:11 PM



#71
Anthracene
Concen: 12.051 ng
RT: 11.59 min Scan# 1615
Delta R.T. -0.01 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	16.3	12.6	19.0





#72

Carbazole

Concen: 2.047 ng

RT: 11.74 min Scan# 1641

Delta R.T. -0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Instrument :

BNA_F

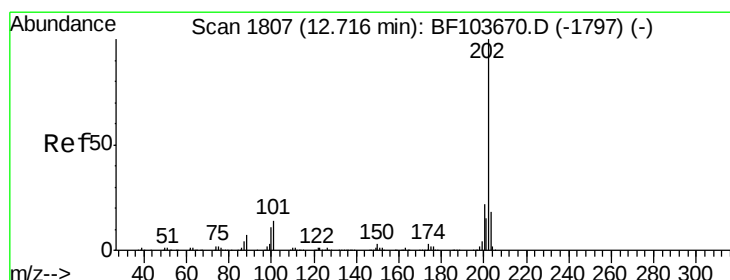
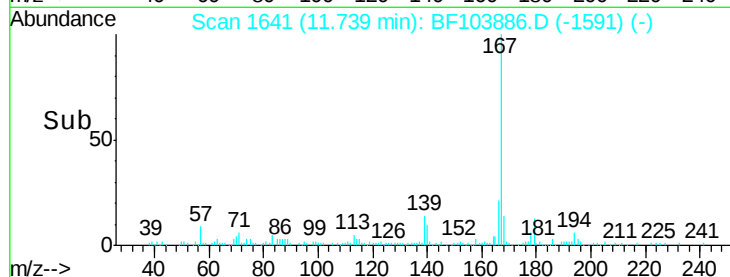
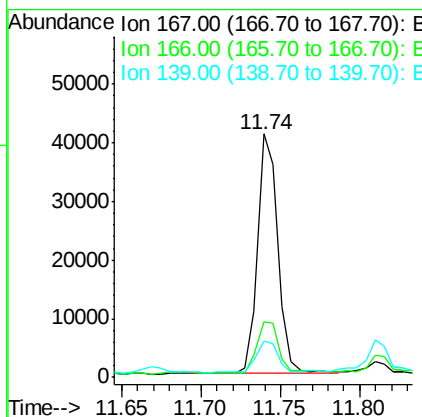
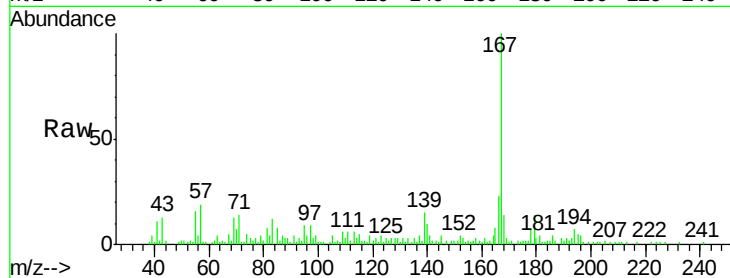
ClientSampleId :

MW-101(1-2)

Tot Ion:	167	Resp:	36569
Ion Ratio	Lower	Upper	
167	100		
166	22.8	17.6	26.4
139	14.9	10.9	16.3

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:11 PM



#74

Fluoranthene

Concen: 41.021 ng

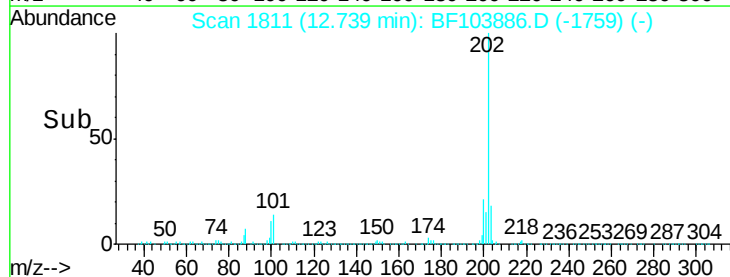
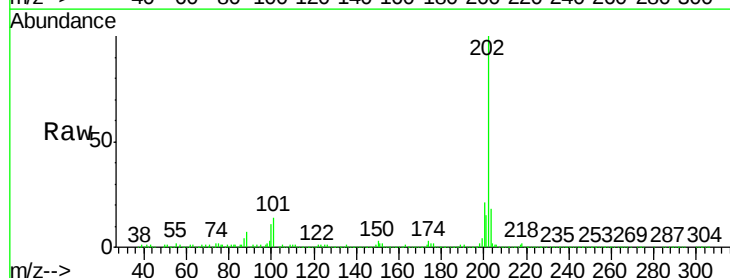
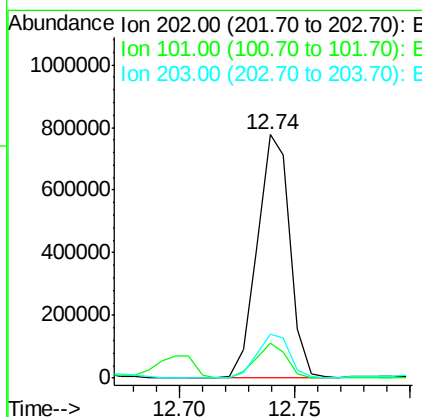
RT: 12.74 min Scan# 1811

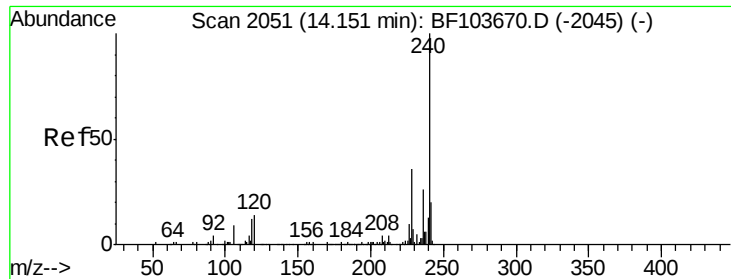
Delta R.T. 0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Tgt Ion:	202	Resp:	764899
Ion Ratio	Lower	Upper	
202	100		
101	14.2	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2051

Delta R.T. 0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Instrument :

BNA_F

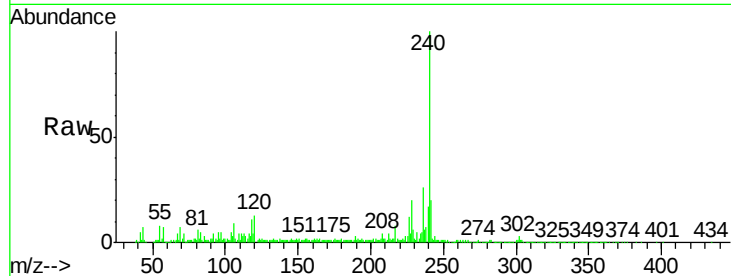
ClientSampleId :

MW-101(1-2)

Tot Ion:	240	Resp:	239849
Ion Ratio	Lower	Upper	
240	100		
120	13.3	9.5	14.3
236	25.8	20.7	31.1

Manual Integrations
APPROVED

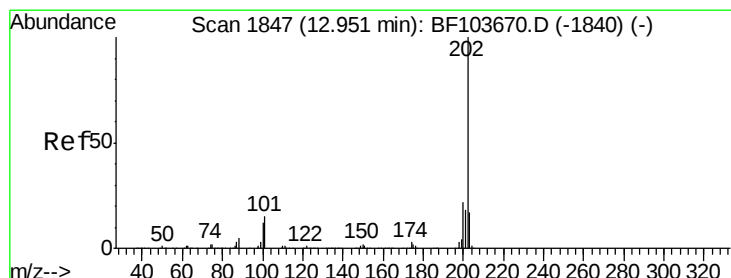
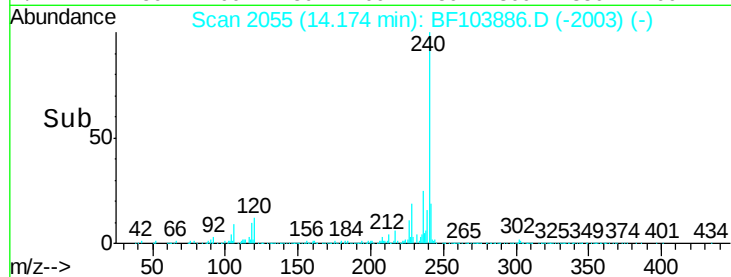
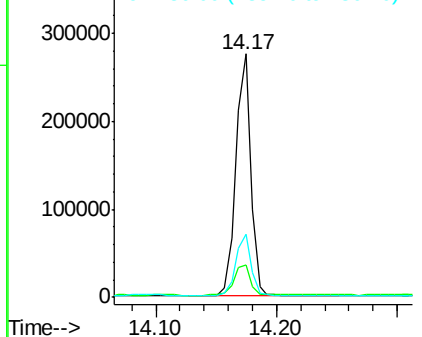
Sohil
3/26/2018 4:33:11 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 45.412 ng

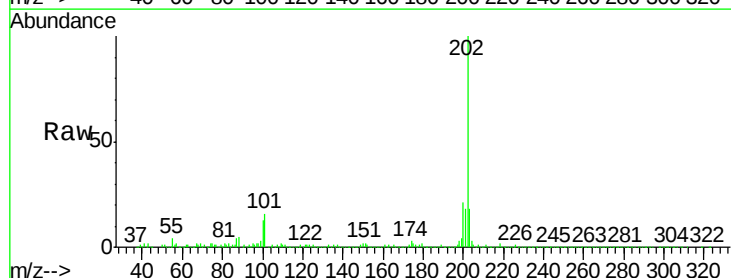
RT: 12.97 min Scan# 1851

Delta R.T. 0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

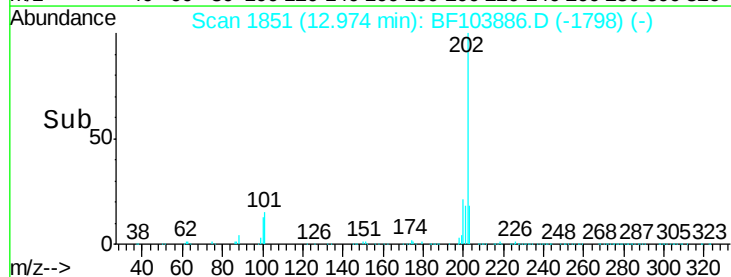
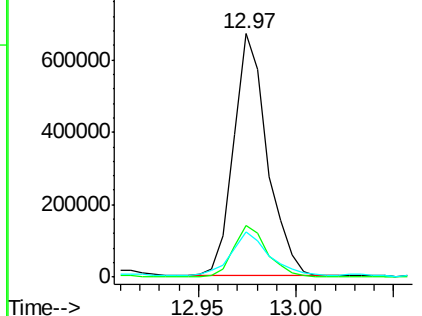
Tgt Ion:	202	Resp:	799902
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.4	26.2
203	18.4	14.3	21.5

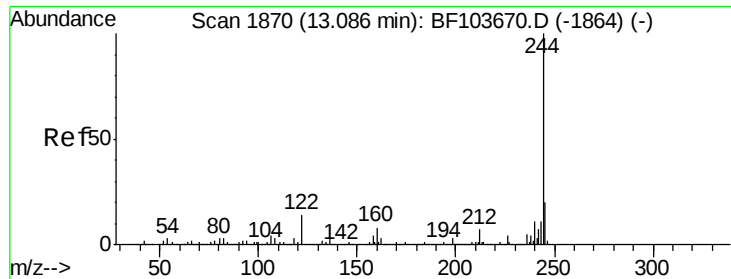


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 46.868 ng

RT: 13.11 min Scan# 1874

Delta R.T. 0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Instrument :

BNA_F

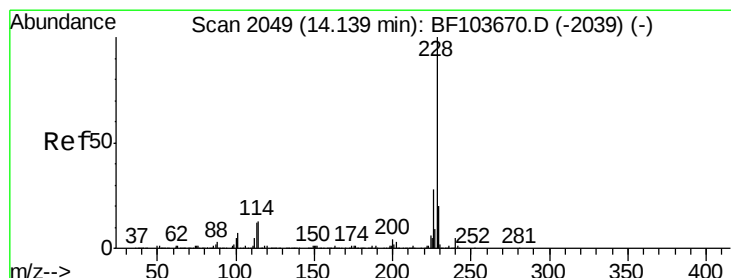
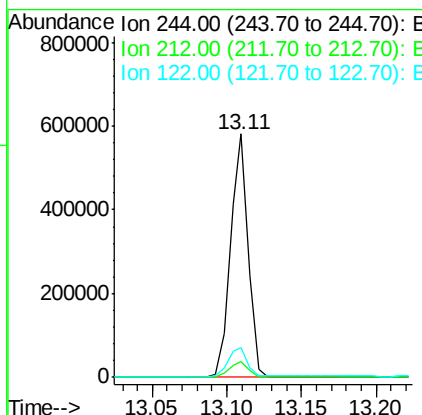
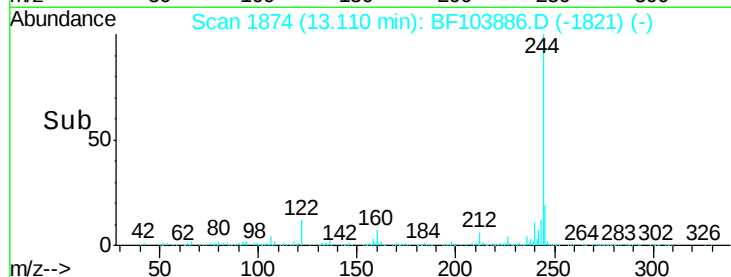
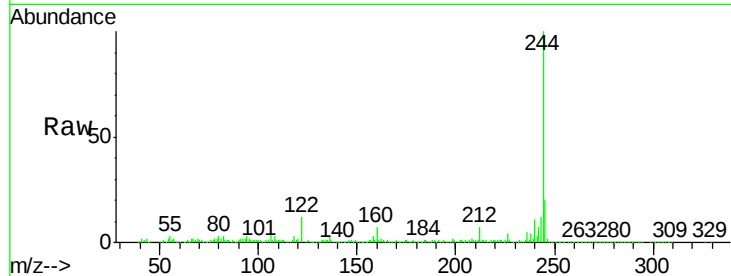
ClientSampleId :

MW-101(1-2)

Tot Ion:	244	Resp:	484300
Ion Ratio	Lower	Upper	
244	100		
212	6.6	5.4	8.0
122	12.4	11.0	16.4

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:11 PM



#80

Benzo(a)anthracene

Concen: 22.942 ng m

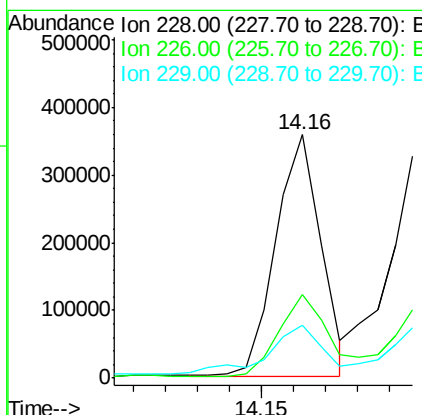
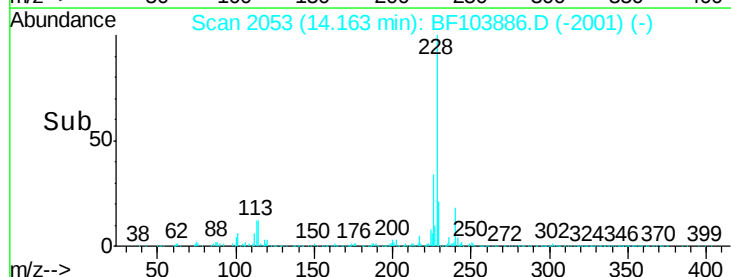
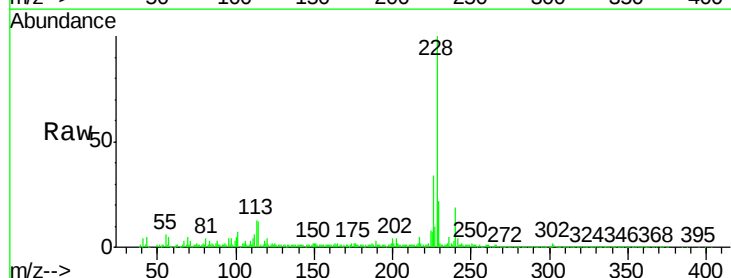
RT: 14.16 min Scan# 2053

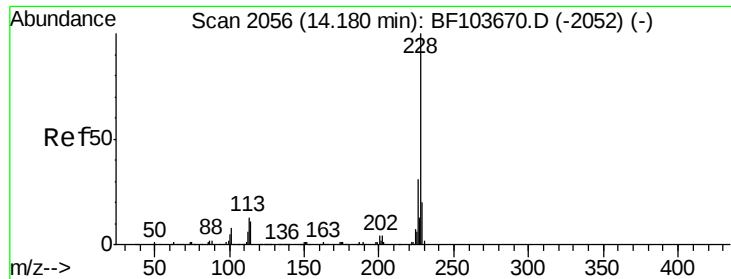
Delta R.T. 0.01 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Tgt Ion:	228	Resp:	348318
Ion Ratio	Lower	Upper	
228	100		
226	34.4	22.6	33.8#
229	21.6	15.8	23.6





#82

Chrysene

Concen: 22.492 ng

RT: 14.20 min Scan# 2059

Delta R.T. -0.00 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Instrument :

BNA_F

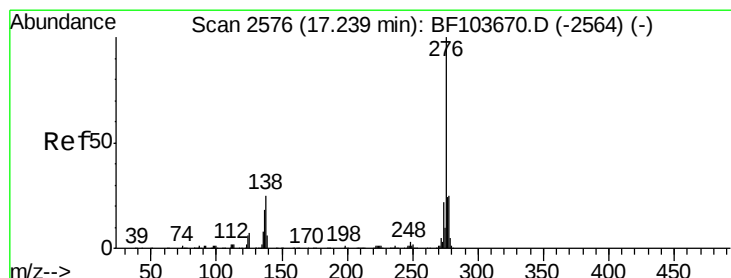
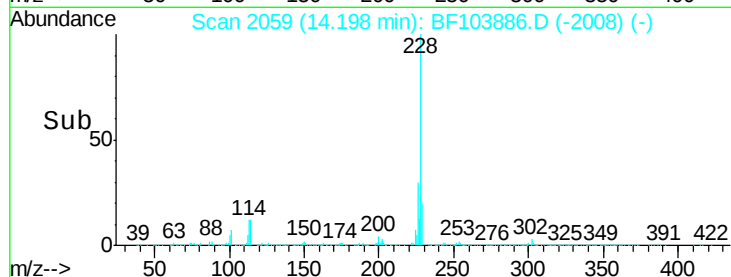
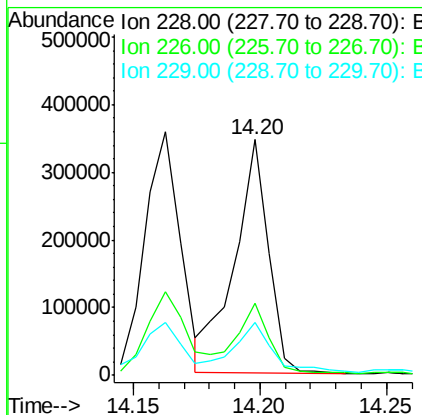
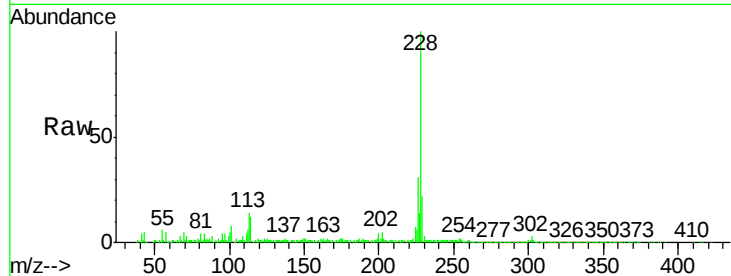
ClientSampled :

MW-101(1-2)

Tot Ion:	228	Resp:	325524
Ion Ratio	Lower	Upper	
228	100		
226	30.9	25.0	37.6
229	22.4	16.2	24.4

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:11 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.470 ng

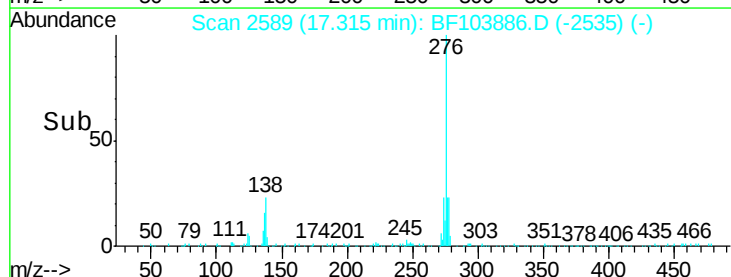
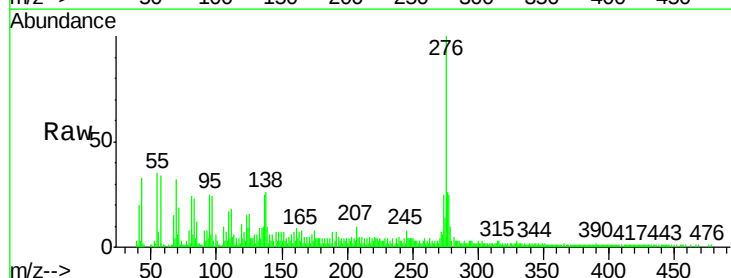
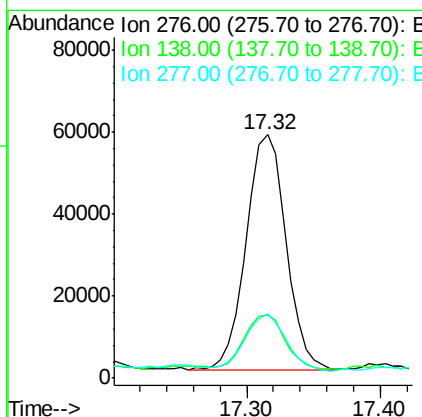
RT: 17.32 min Scan# 2589

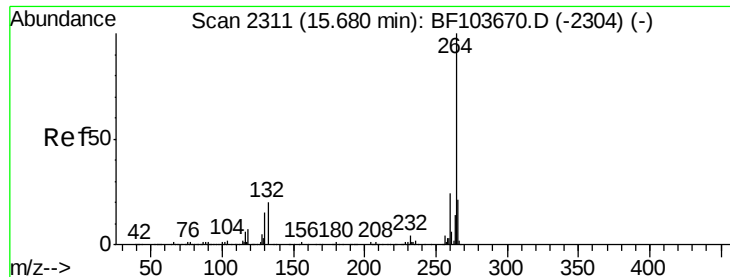
Delta R.T. 0.02 min

Lab File: BF103886.D

Acq: 23 Mar 2018 17:53

Tgt Ion:	276	Resp:	119696
Ion Ratio	Lower	Upper	
276	100		
138	24.5	25.0	37.6#
277	24.2	20.1	30.1





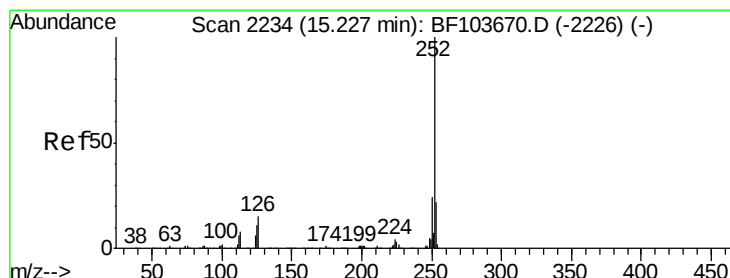
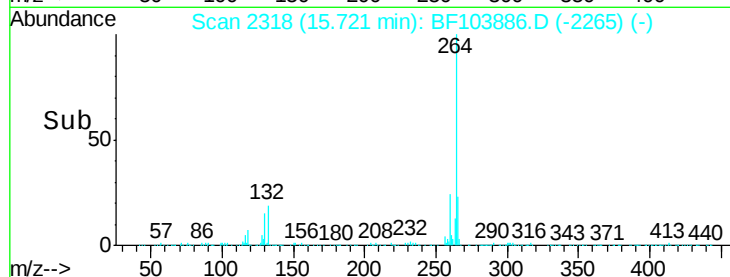
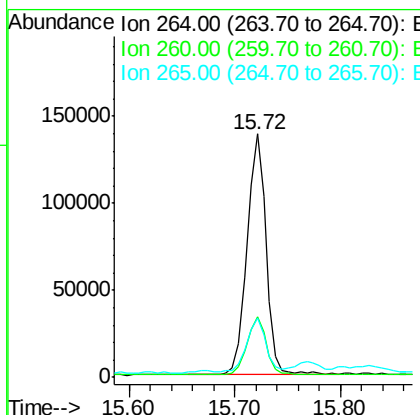
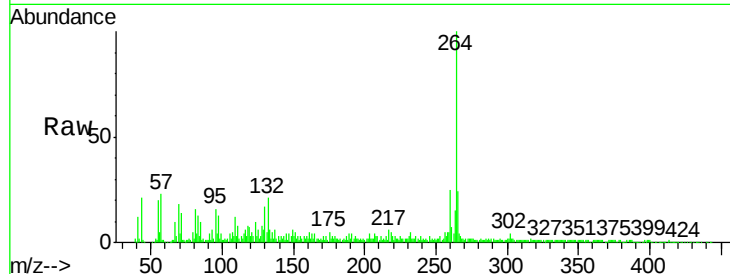
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2318
Delta R.T. 0.01 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Instrument :
BNA_F
ClientSampleId :
MW-101(1-2)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.2	28.8
265	24.2	17.5	26.3

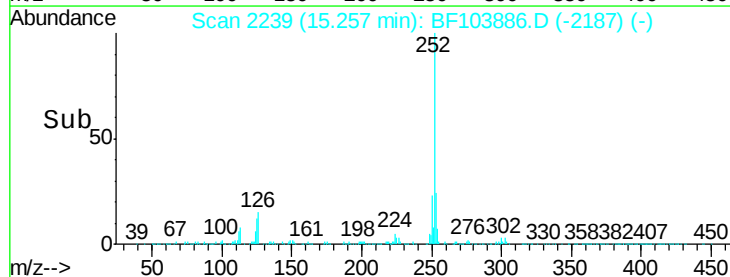
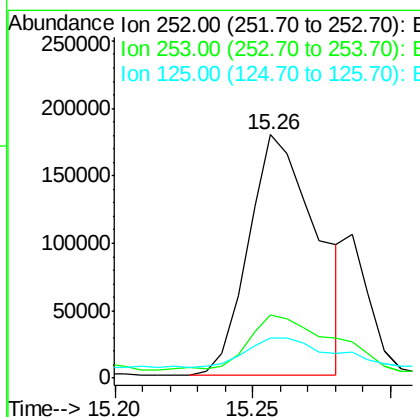
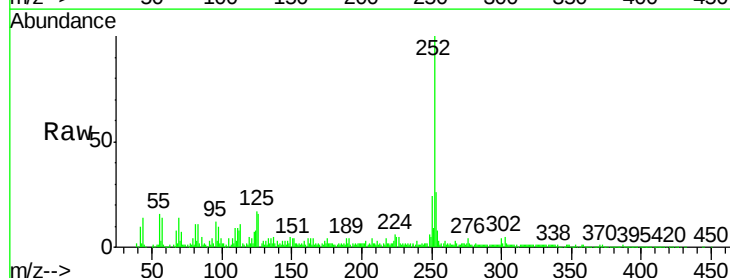
Manual Integrations
APPROVED

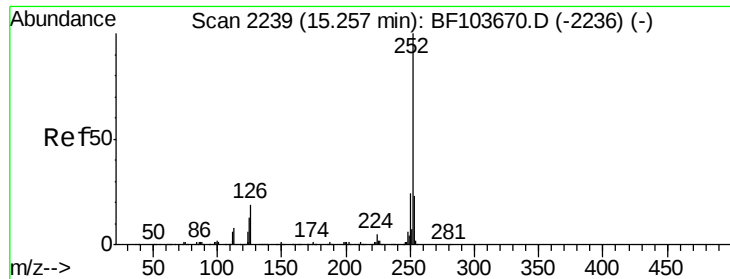
Sohil
3/26/2018 4:33:11 PM



#87
Benzo(b)fluoranthene
Concen: 27.916 ng m
RT: 15.26 min Scan# 2239
Delta R.T. 0.01 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.7	17.0	25.6#
125	16.5	9.0	13.6#





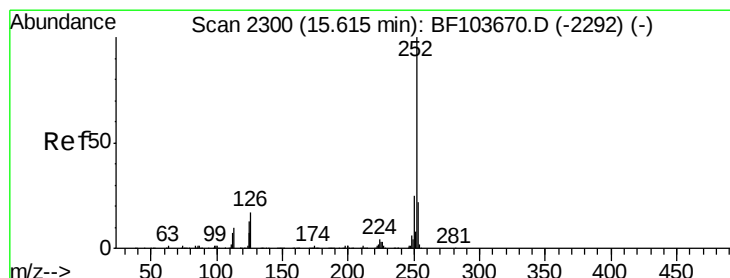
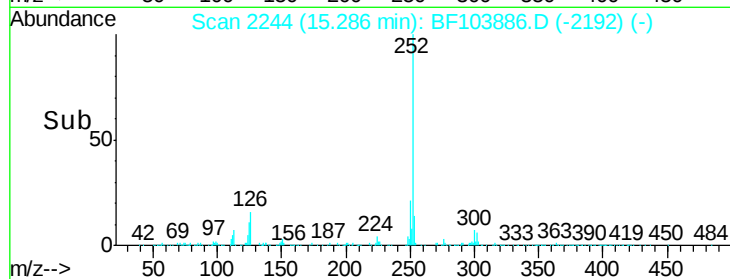
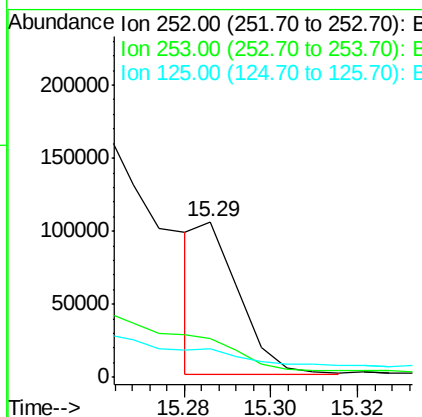
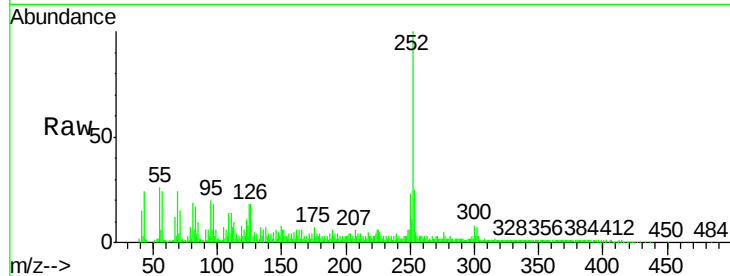
#88
Benzo(k)fluoranthene
Concen: 6.424 ng m
RT: 15.29 min Scan# 2244
Delta R.T. 0.01 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Instrument :
BNA_F
ClientSampled :
MW-101(1-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.9	26.9
125	18.2	10.2	15.2

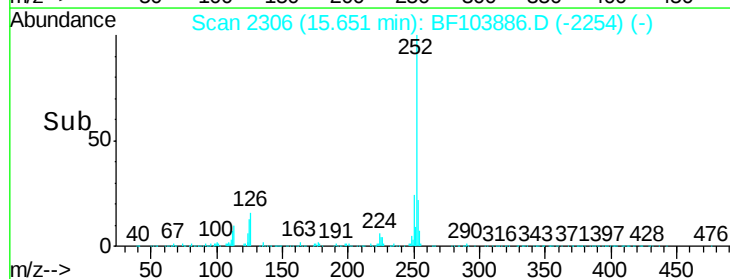
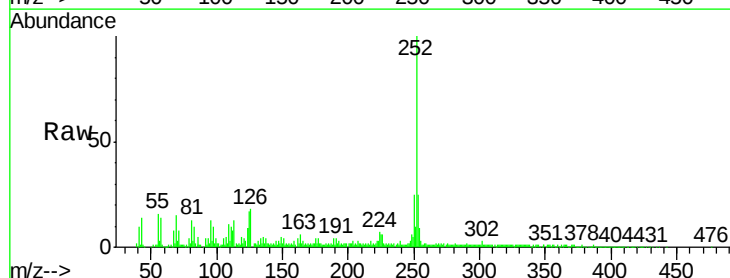
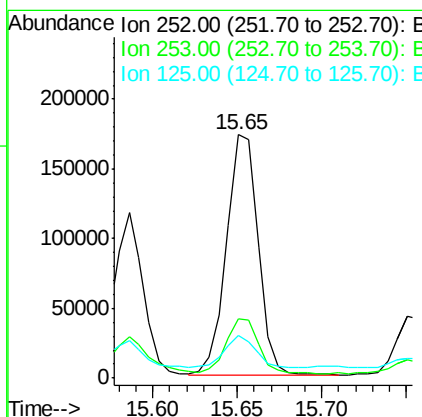
Manual Integrations
APPROVED

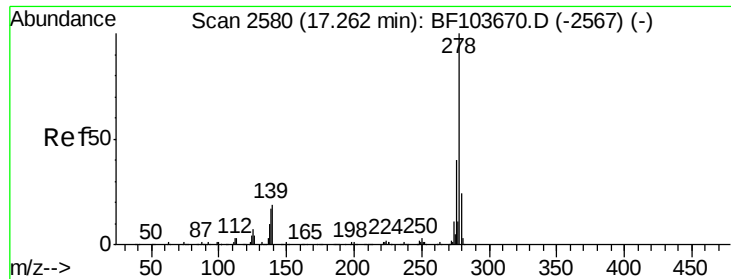
Sohil
3/26/2018 4:33:11 PM



#89
Benzo(a)pyrene
Concen: 22.381 ng
RT: 15.65 min Scan# 2306
Delta R.T. 0.01 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.1	25.7
125	17.4	9.8	14.6





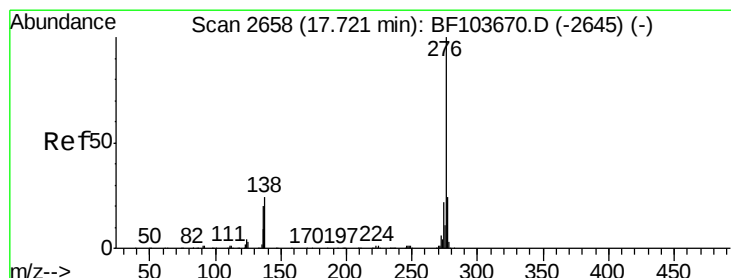
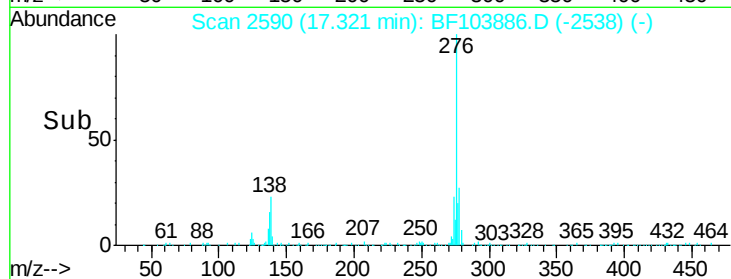
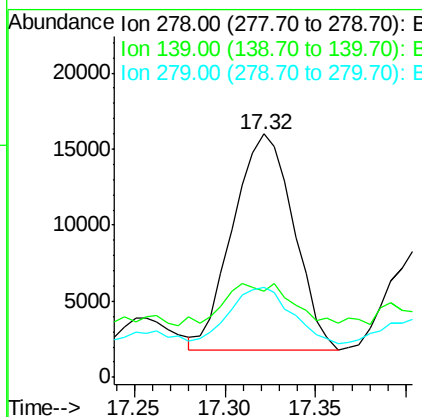
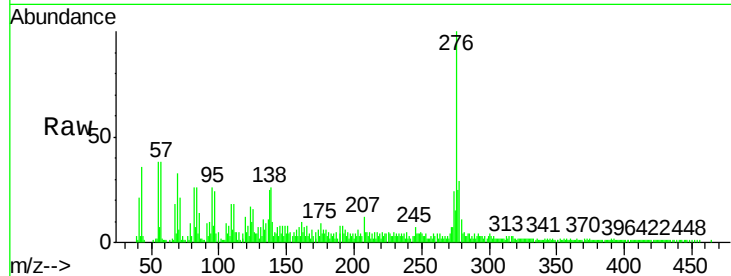
#90
Dibenzo(a,h)anthracene
Concen: 3.823 ng
RT: 17.32 min Scan# 2590
Delta R.T. 0.01 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Instrument :
BNA_F
ClientSampleId :
MW-101(1-2)

Tot Ion	Ratio	Lower	Upper
278	100		
139	35.2	15.9	23.9#
279	36.9	19.0	28.4#

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:11 PM



#91
Benzo(g,h,i)perylene
Concen: 13.736 ng
RT: 17.80 min Scan# 2672
Delta R.T. 0.02 min
Lab File: BF103886.D
Acq: 23 Mar 2018 17:53

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.3	17.9	26.9#
138	27.8	21.8	32.8

