

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
 Data File : BF08154.D
 Acq On : 30 Aug 2017 12:37
 Operator : SJ/JU
 Sample : I4979-03DL 50X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3DL

Manual Integrations
 APPROVED

Sohil
 8/30/2017 6:49:03 PM

Quant Time: Aug 30 13:28:21 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	81393	20.00	ng	-0.02
21) Naphthalene-d8	8.02	136	324049	20.00	ng	-0.02
38) Acenaphthene-d10	9.77	164	138577	20.00	ng	-0.02
63) Phenanthrene-d10	11.25	188	215644	20.00	ng	-0.01
75) Chrysene-d12	13.88	240	170617	20.00	ng	-0.02
86) Perylene-d12	15.30	264	152167	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	15145	2.83	ng	-0.02
7) Phenol-d6	6.36	99	21434	2.95	ng	-0.02
23) Nitrobenzene-d5	7.29	82	14693	2.46	ng	-0.03
41) 2,4,6-Tribromophenol	10.56	330	2111	1.76	ng	-0.02
44) 2-Fluorobiphenyl	9.09	172	21230	2.25	ng	-0.02
78) Terphenyl-d14	12.83	244	12157	1.49	ng	-0.02
Target Compounds						
31) Naphthalene	8.04	128	673349	40.025	ng	99
37) 2-Methylnaphthalene	8.73	142	922805	89.471	ng	98
45) 1,1'-Biphenyl	9.19	154	168083	13.301	ng	96
51) Acenaphthene	9.80	154	539774	58.370	ng	99
54) Dibenzofuran	9.97	168	542857	43.801	ng	99
57) Fluorene	10.32	166	460550	48.063	ng	96
70) Phenanthrene	11.28	178	716962	62.393	ng	99
71) Anthracene	11.33	178	247777	21.259	ng	100
72) Carbazole	11.48	167	24476	2.212	ng	# 93
74) Fluoranthene	12.46	202	198805	16.575	ng	99
77) Pyrene	12.69	202	153393	10.992	ng	98
80) Benzo(a)anthracene	13.87	228	24279	2.374	ng	97
82) Chrysene	13.91	228	21254m	2.089	ng	

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

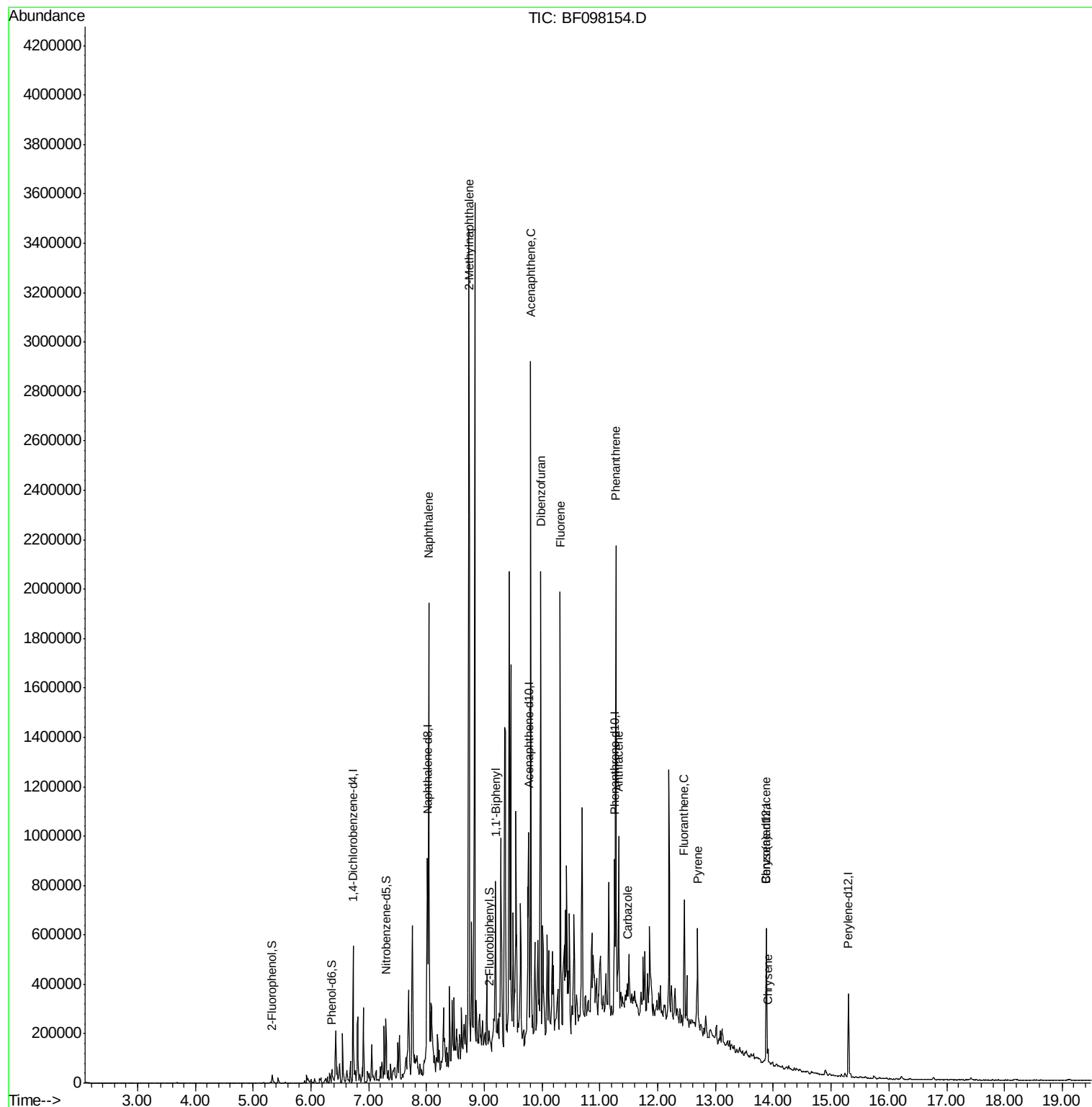
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
Data File : BF098154.D
Acq On : 30 Aug 2017 12:37
Operator : SJ/JU
Sample : I4979-03DL 50X
Misc :
ALS Vial : 46 Sample Multiplier: 1

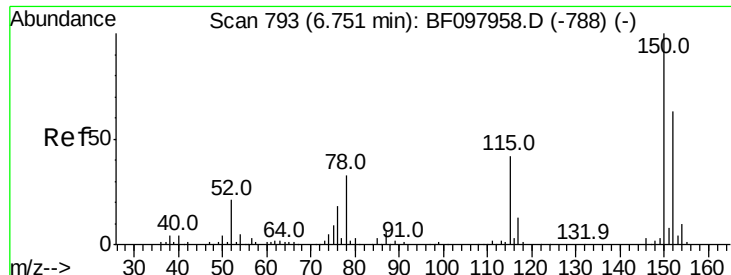
Instrument :
BNA_F
ClientSampleId :
TP-3DL

Manual Integrations
APPROVED

Sohil
8/30/2017 6:49:03 PM

Quant Time: Aug 30 13:28:21 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 21 15:59:04 2017
Response via : Initial Calibration





#1

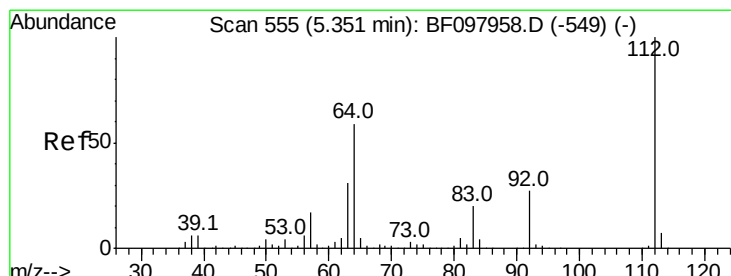
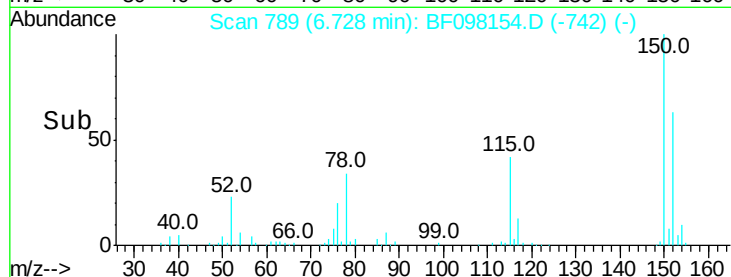
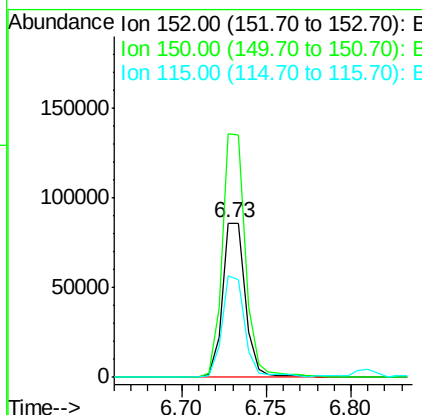
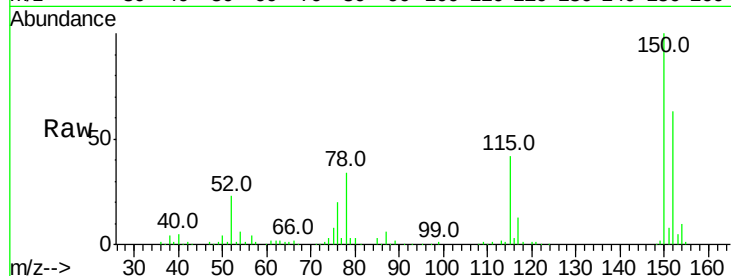
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Instrument :
BNA_F
ClientSampled :
TP-3DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	126.2	189.2
115	65.7	52.2	78.2

Manual Integrations
APPROVED

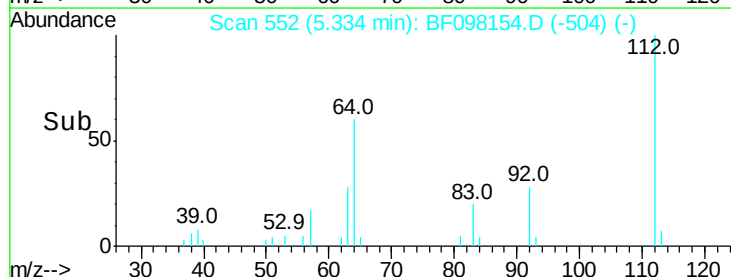
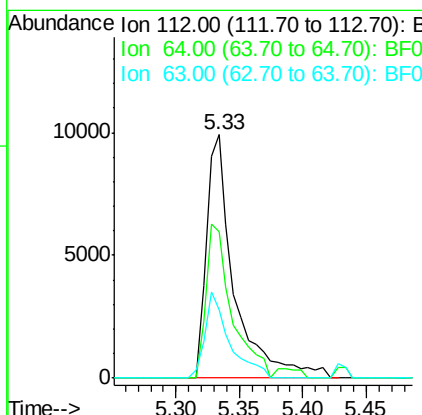
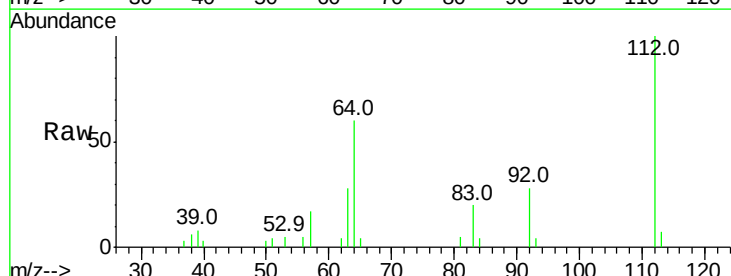
Sohil
8/30/2017 6:49:03 PM

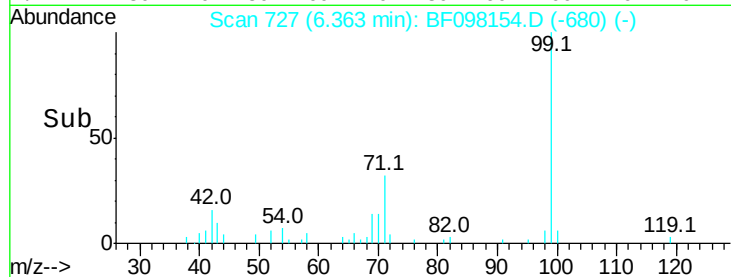
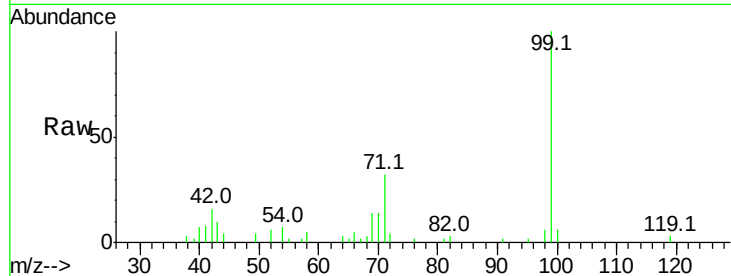
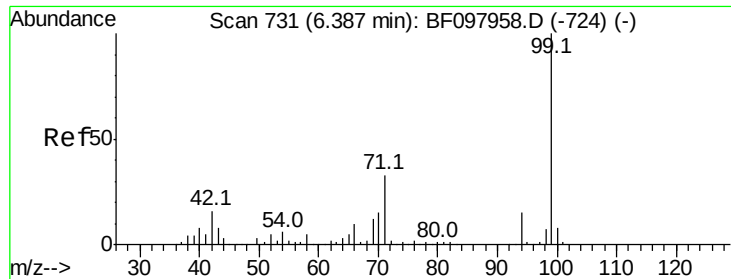


#5

2-Fluorophenol
Concen: 2.830 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.9	46.0	69.0
63	28.0	23.4	35.0





#7

Phenol-d6

Concen: 2.948 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF098154.D

Acq: 30 Aug 2017 12:37

Instrument :

BNA_F

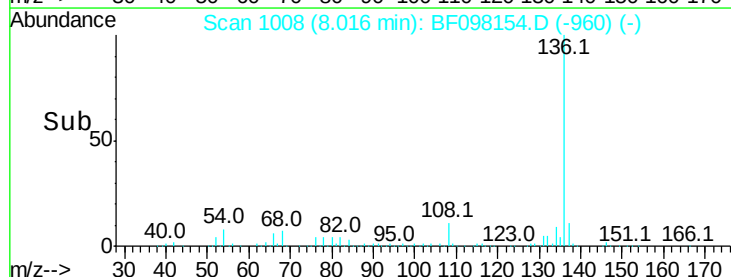
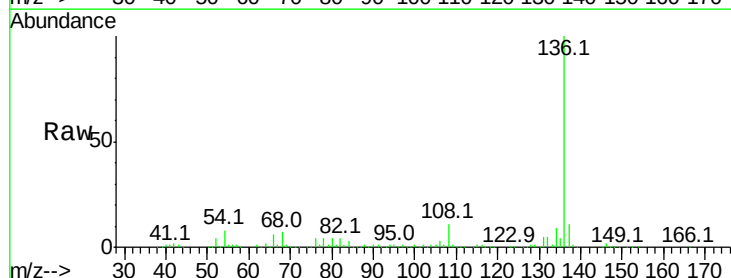
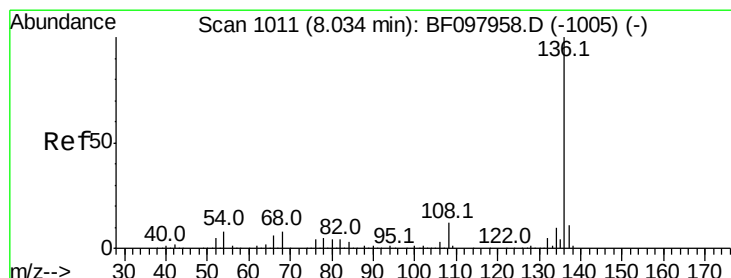
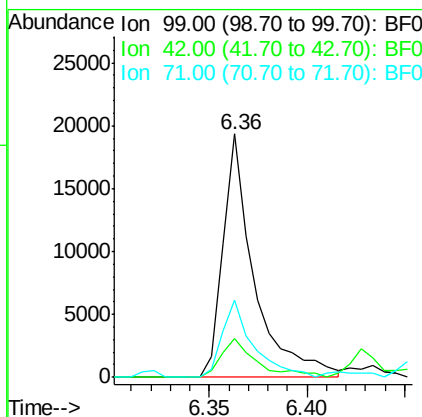
ClientSampled :

TP-3DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		21434		
42	16.1	13.5	20.3		
71	31.7	24.5	36.7		

Manual Integrations
APPROVED

Sohil
8/30/2017 6:49:03 PM



#21

Naphthalene-d8

Concen: 20.000 ng

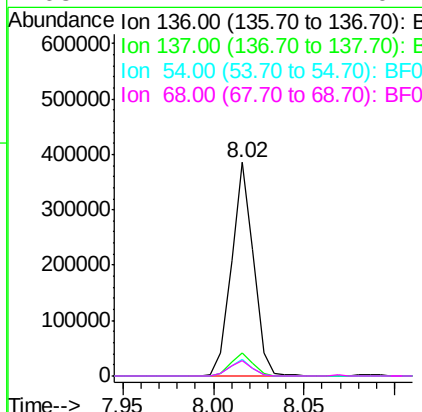
RT: 8.02 min Scan# 1008

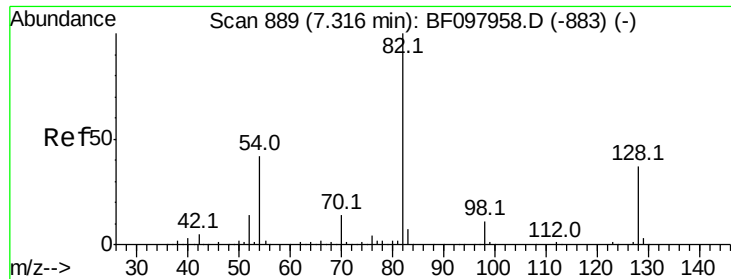
Delta R.T. -0.02 min

Lab File: BF098154.D

Acq: 30 Aug 2017 12:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		324049		
137	10.7	8.5	12.7		
54	7.9	4.9	7.3#		
68	7.1	4.1	6.1#		





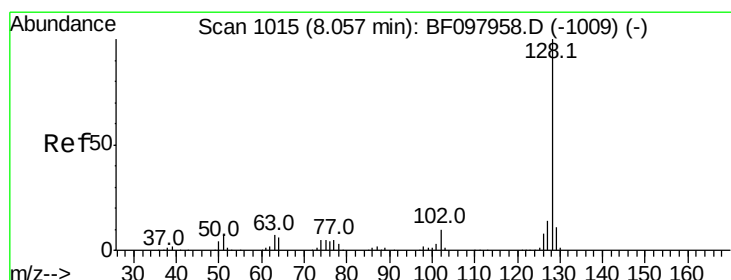
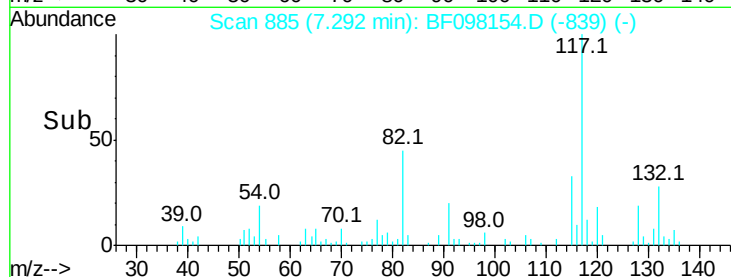
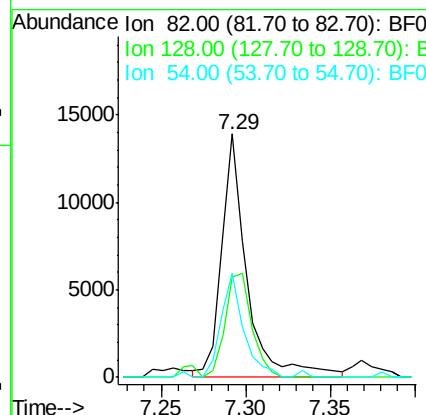
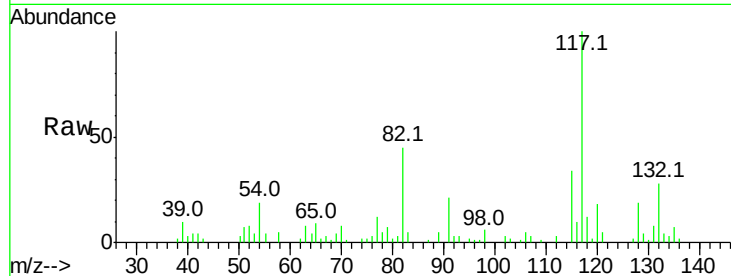
#23
Nitrobenzene-d5
Concen: 2.463 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.03 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Instrument :
BNA_F
ClientSampled :
TP-3DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	41.3	34.0	51.0	
54	42.8	42.2	63.2	

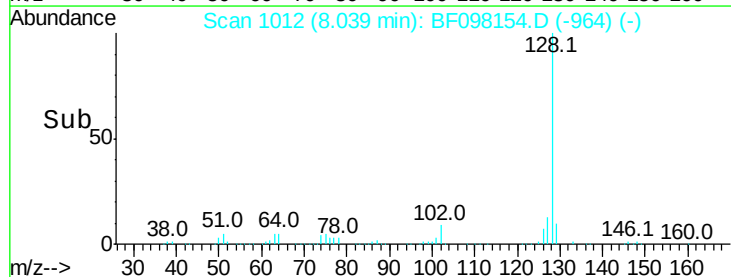
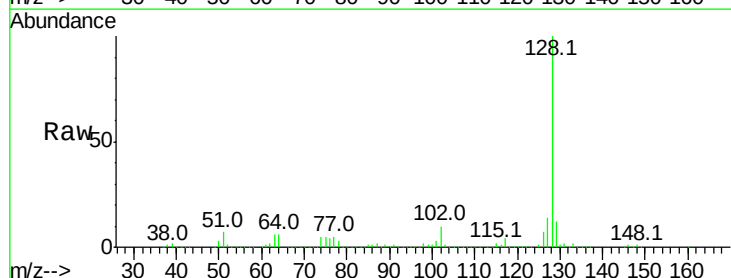
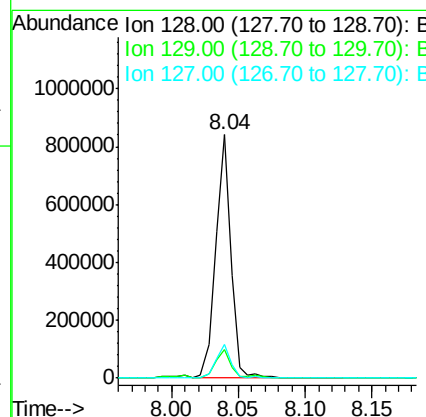
Manual Integrations
APPROVED

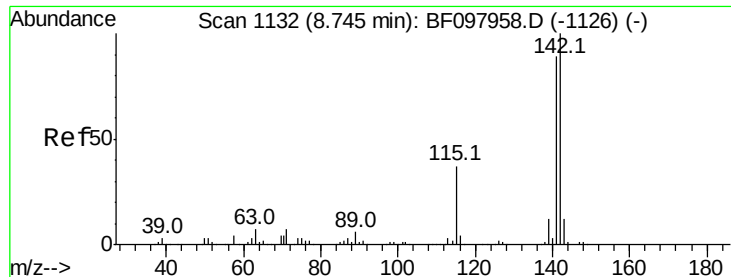
Sohil
8/30/2017 6:49:03 PM



#31
Naphthalene
Concen: 40.025 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.6	9.0	13.6	
127	13.6	10.8	16.2	





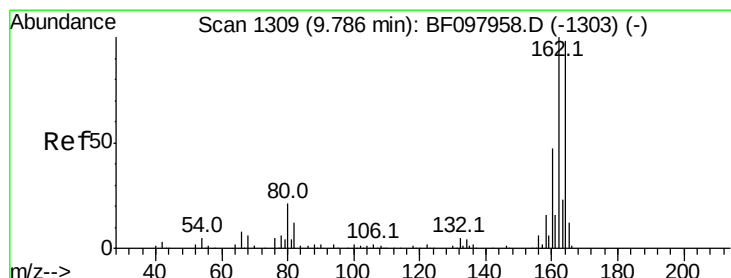
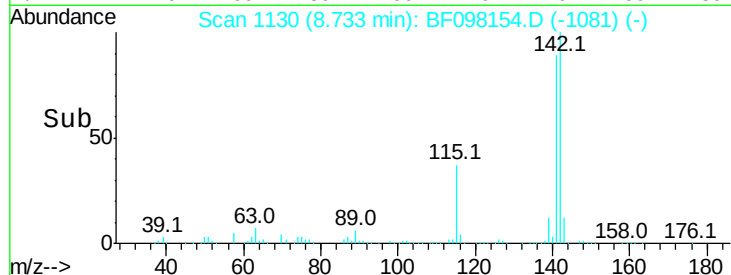
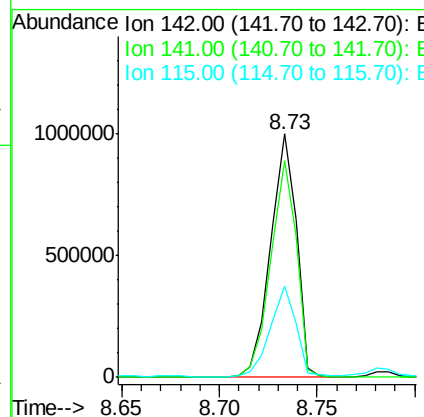
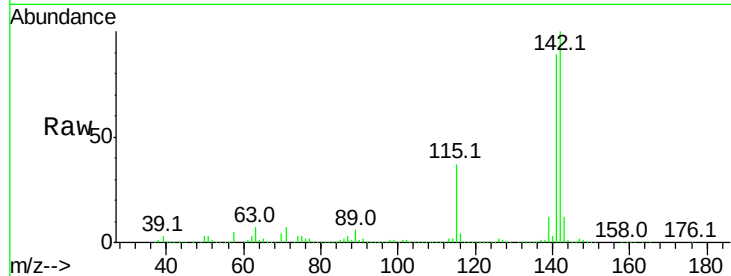
#37
2-Methylnaphthalene
Concen: 89.471 ng
RT: 8.73 min Scan# 1130
Delta R.T. -0.01 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Instrument :
BNA_F
ClientSampled :
TP-3DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	922805		
141	89.2	71.3	106.9	
115	37.4	27.1	40.7	

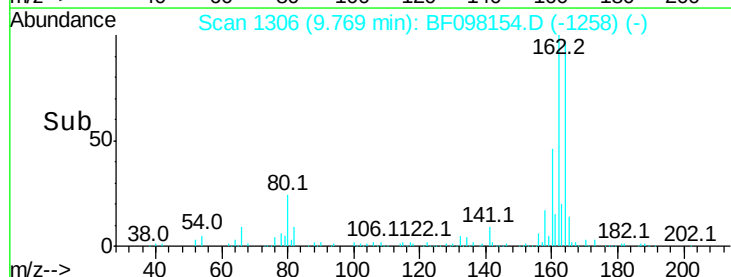
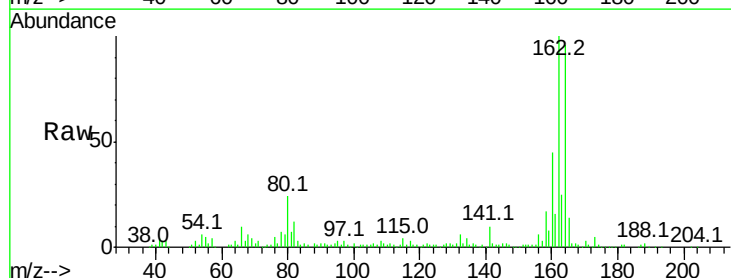
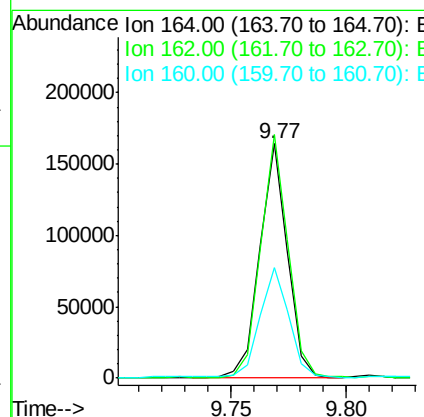
Manual Integrations
APPROVED

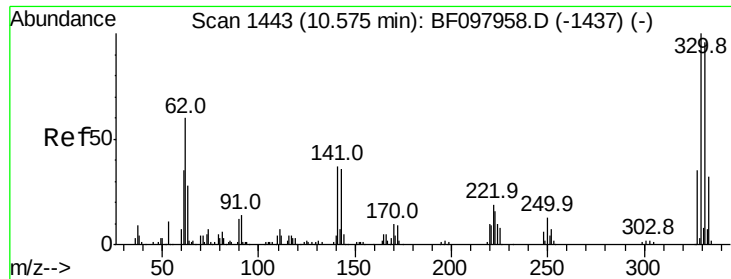
Sohil
8/30/2017 6:49:03 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.77 min Scan# 1306
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	138577		
162	103.9	82.6	123.8	
160	47.2	36.2	54.2	





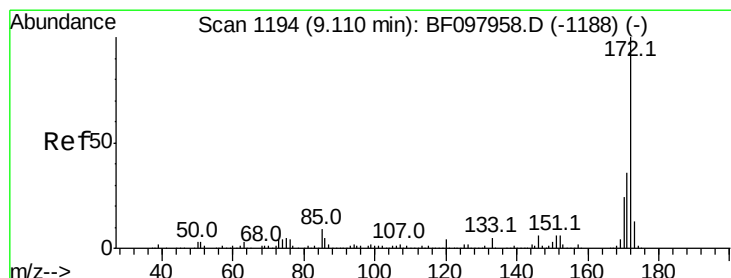
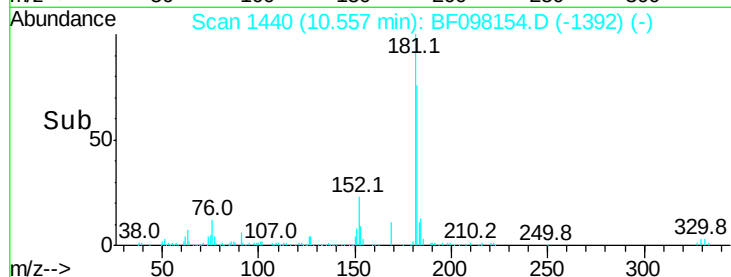
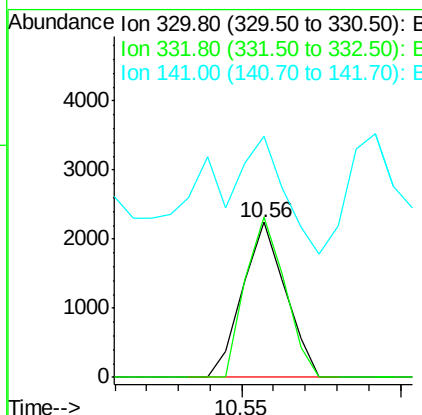
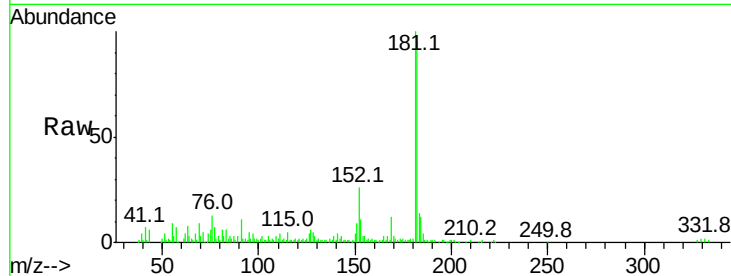
#41
 2,4,6-Tribromophenol
 Concen: 1.756 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.02 min
 Lab File: BF098154.D
 Acq: 30 Aug 2017 12:37

Instrument :
 BNA_F
 ClientSampled :
 TP-3DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.8	76.6	115.0
141	131.9	31.4	47.2#

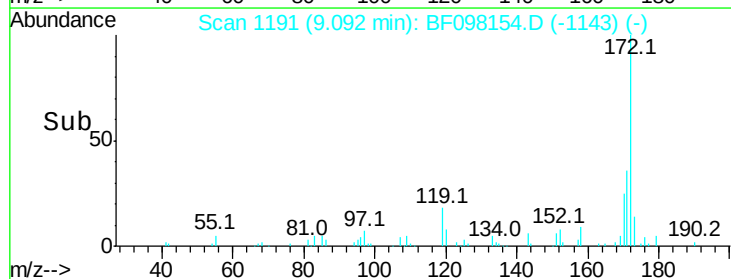
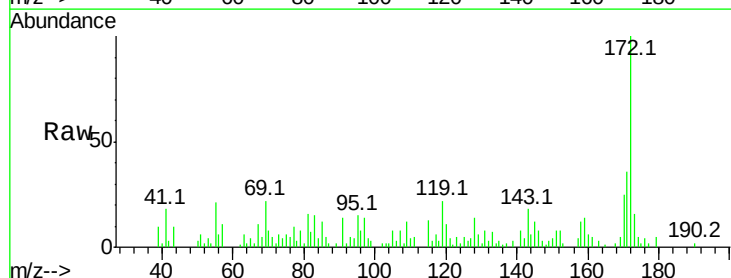
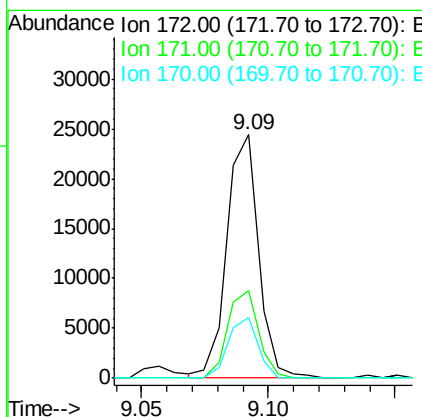
Manual Integrations
 APPROVED

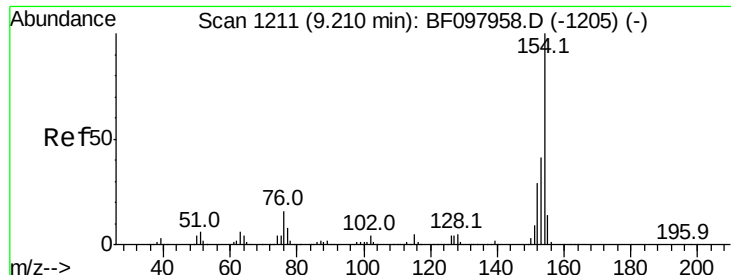
Sohil
 8/30/2017 6:49:03 PM



#44
 2-Fluorobiphenyl
 Concen: 2.251 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. -0.02 min
 Lab File: BF098154.D
 Acq: 30 Aug 2017 12:37

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.6	44.4
170	25.0	19.8	29.8





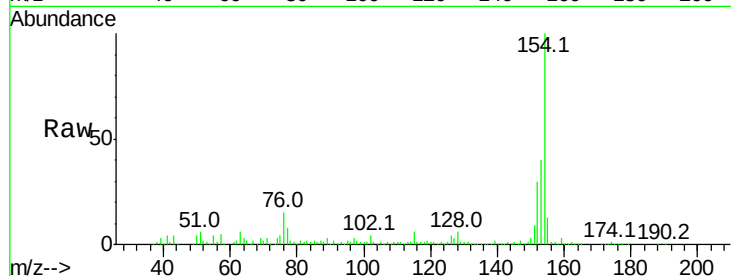
#45
1,1'-Biphenyl
Concen: 13.301 ng
RT: 9.19 min Scan# 1208
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Instrument :
BNA_F
ClientSampled :
TP-3DL

Tot Ion	Ratio	Resp	Lower	Upper
154	100	168083		
153	40.0	21.2	61.2	
76	15.1	0.0	29.9	

Manual Integrations
APPROVED

Sohil
8/30/2017 6:49:03 PM

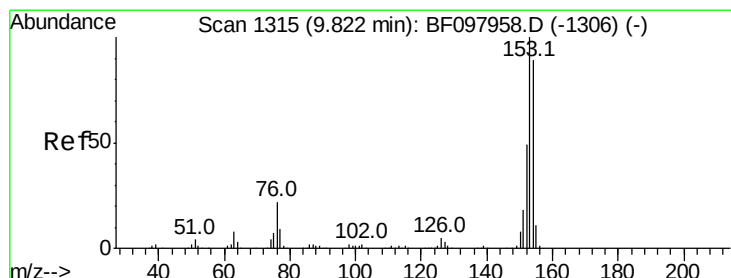
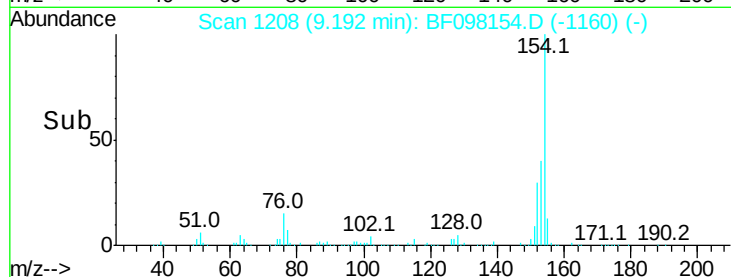
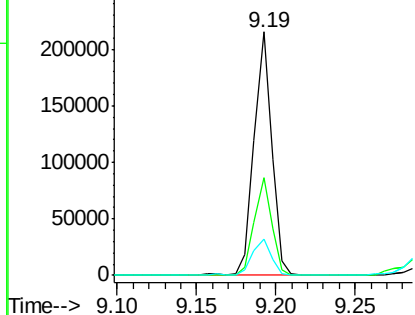


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#51
Acenaphthene
Concen: 58.370 ng
RT: 9.80 min Scan# 1312
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

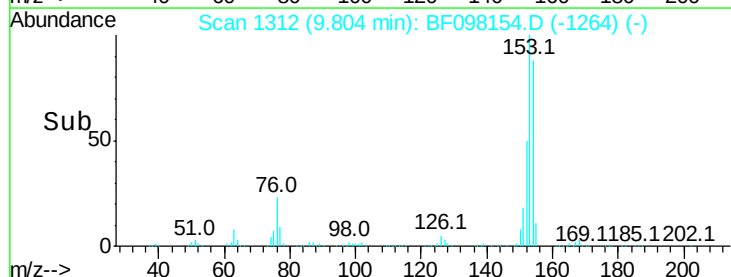
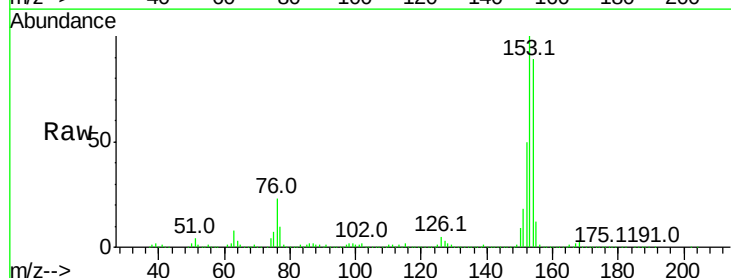
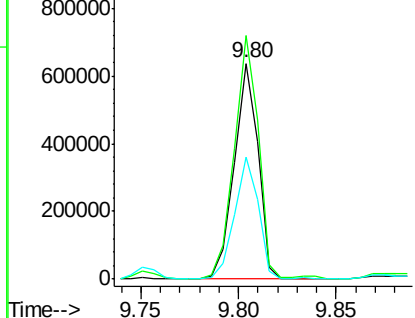
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	539774		
153	112.9	90.5	135.7	
152	56.5	43.6	65.4	

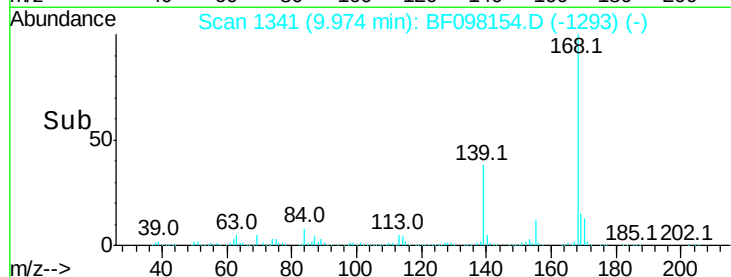
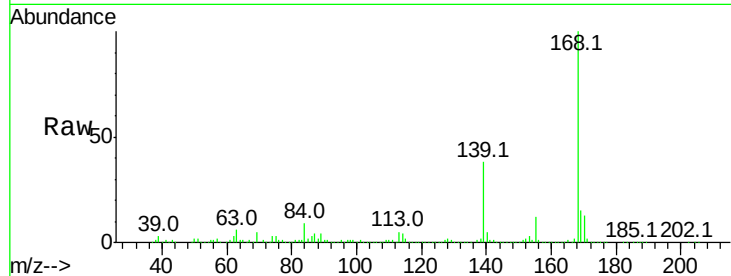
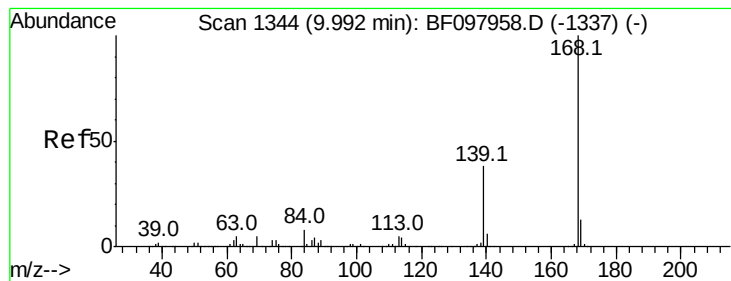
Abundance

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: 43.801 ng

RT: 9.97 min Scan# 1341

Delta R.T. -0.02 min

Lab File: BF098154.D

Acq: 30 Aug 2017 12:37

Tot Ion:	168	Resp:	542857
Ion Ratio	Lower	Upper	
168	100		
139	38.1	30.6	45.8
169	15.5	10.8	16.2

Instrument :

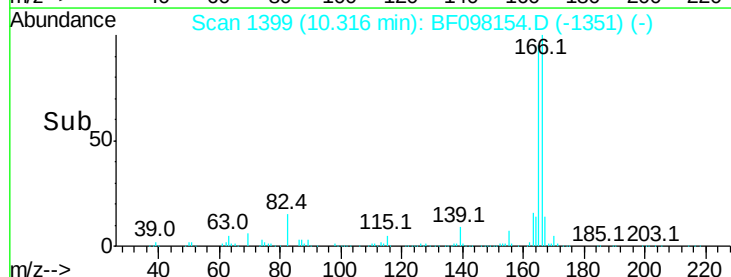
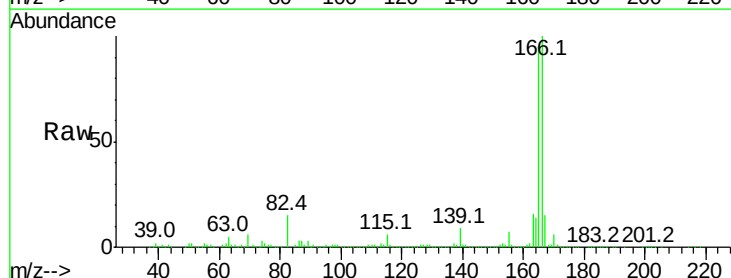
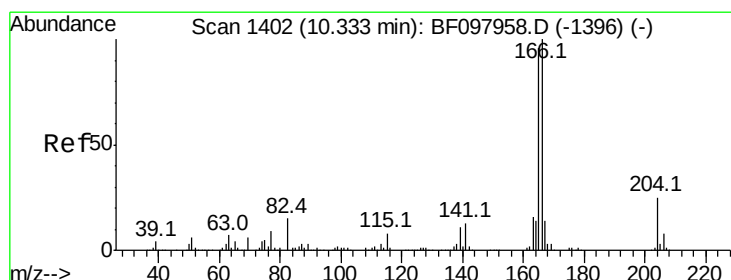
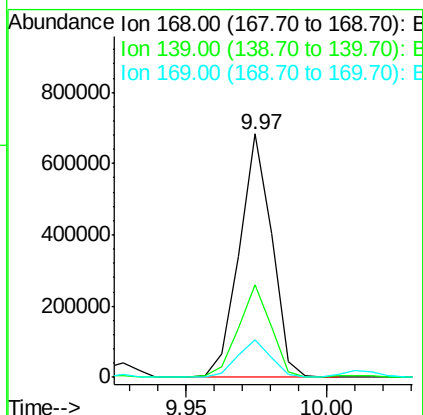
BNA_F

ClientSampled :

TP-3DL

Manual Integrations
APPROVED

Sohil
8/30/2017 6:49:03 PM



#57

Fluorene

Concen: 48.063 ng

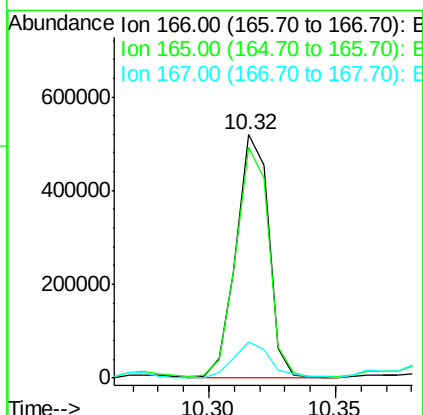
RT: 10.32 min Scan# 1399

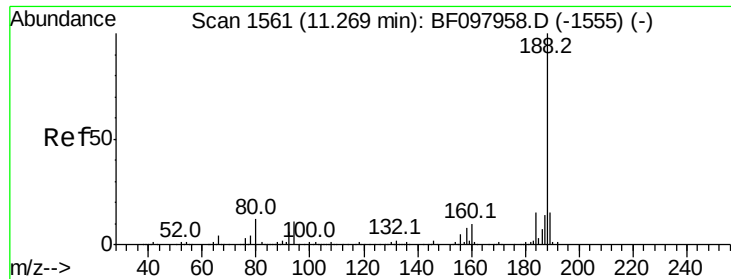
Delta R.T. -0.02 min

Lab File: BF098154.D

Acq: 30 Aug 2017 12:37

Tgt Ion:	166	Resp:	460550
Ion Ratio	Lower	Upper	
166	100		
165	94.9	78.8	118.2
167	14.8	10.6	16.0





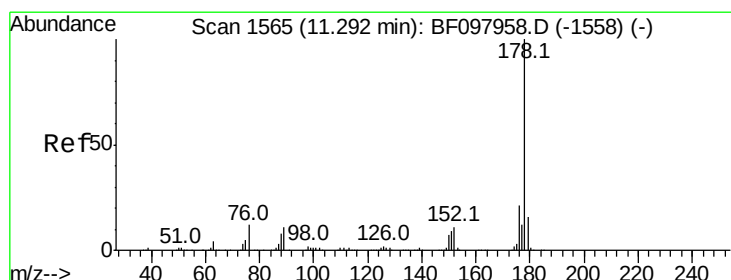
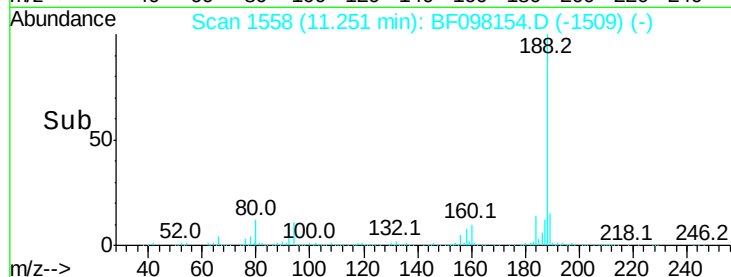
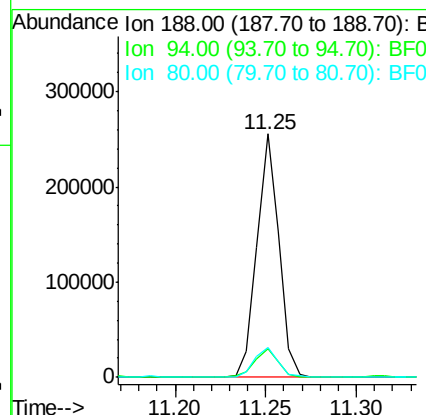
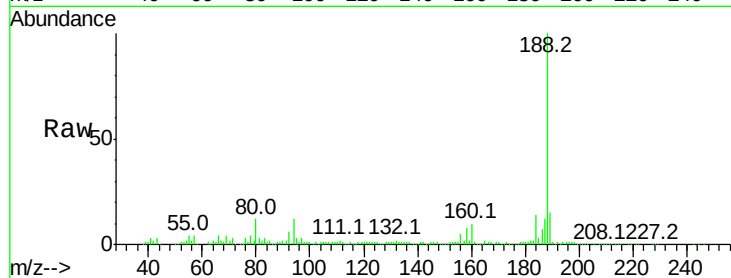
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Instrument :
BNA_F
ClientSampled :
TP-3DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	215644		
94	11.6		9.4	14.2
80	12.1		10.2	15.2

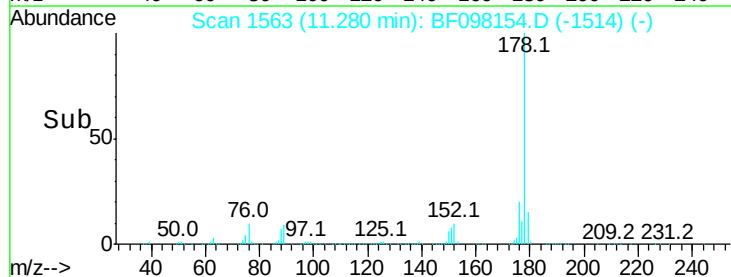
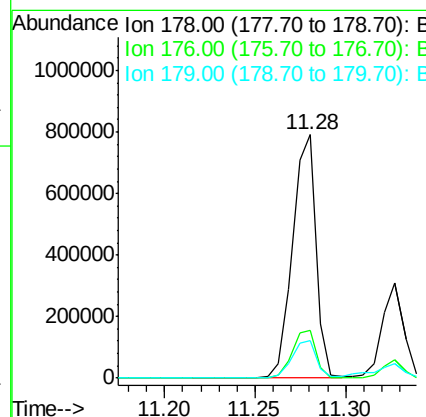
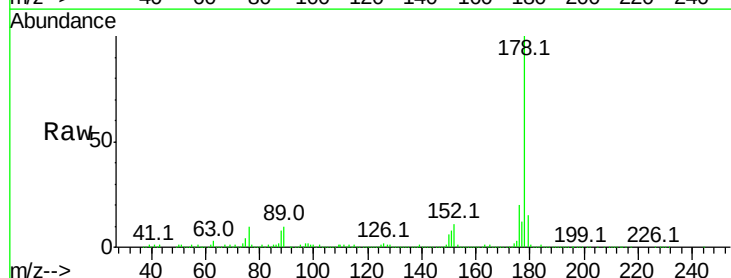
Manual Integrations
APPROVED

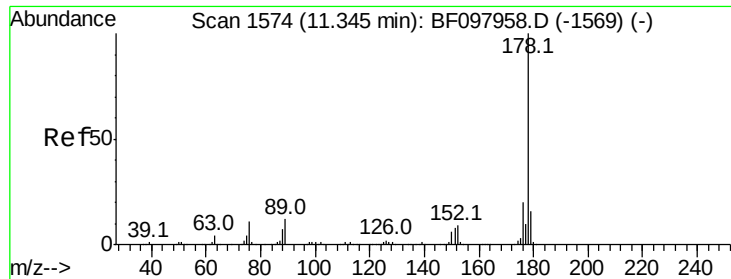
Sohil
8/30/2017 6:49:03 PM



#70
Phenanthrene
Concen: 62.393 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	716962		
176	19.8		16.2	24.4
179	15.3		12.6	19.0





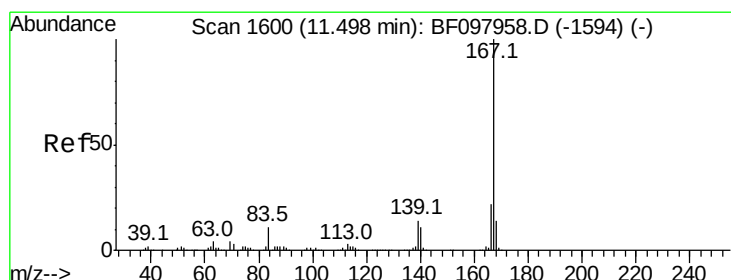
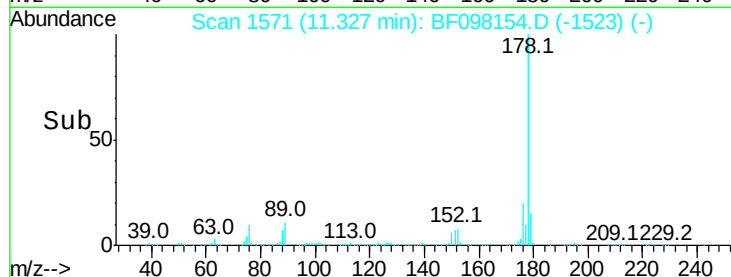
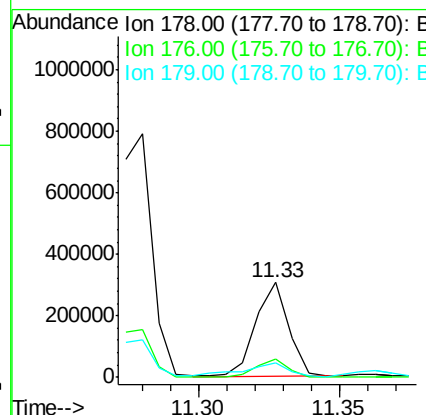
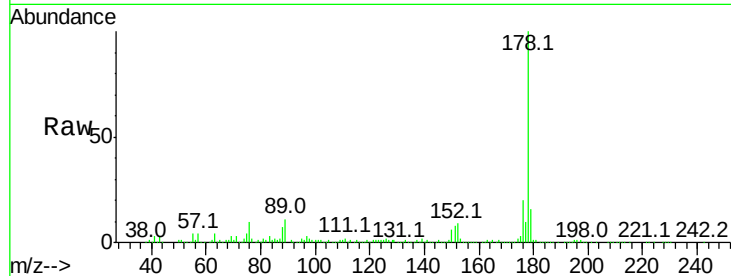
#71
 Anthracene
 Concen: 21.259 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.02 min
 Lab File: BF098154.D
 Acq: 30 Aug 2017 12:37

Instrument :
 BNA_F
 ClientSampled :
 TP-3DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.7	12.7	19.1

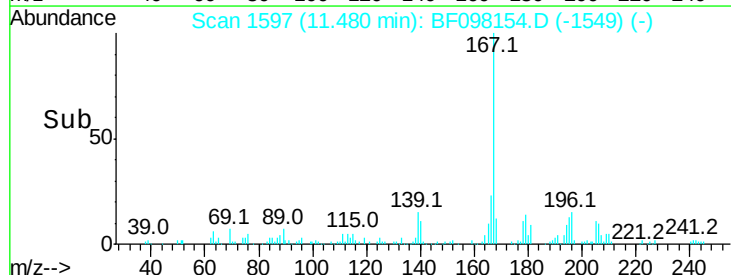
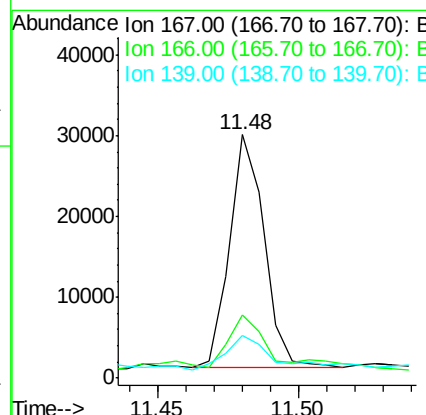
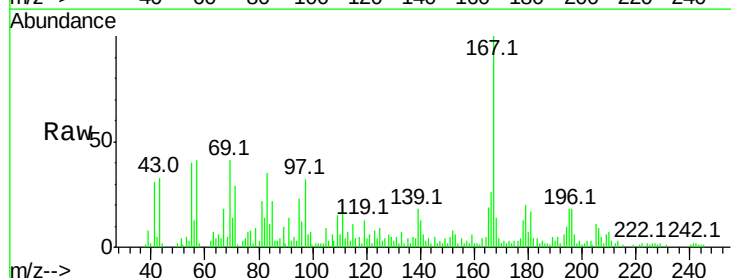
Manual Integrations
 APPROVED

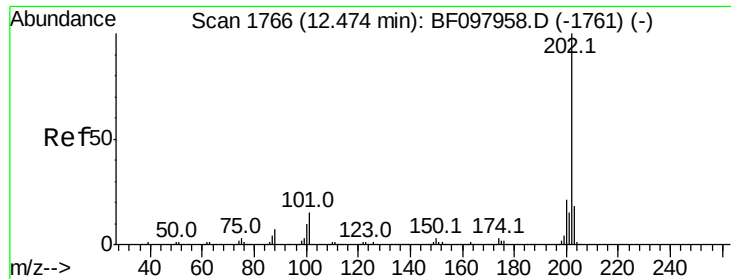
Sohil
 8/30/2017 6:49:03 PM



#72
 Carbazole
 Concen: 2.212 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.02 min
 Lab File: BF098154.D
 Acq: 30 Aug 2017 12:37

Tgt Ion	Ratio	Lower	Upper
167	100		
166	26.2	18.1	27.1
139	17.7	11.7	17.5#





#74

Fluoranthene

Concen: 16.575 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF098154.D

Acq: 30 Aug 2017 12:37

Instrument :

BNA_F

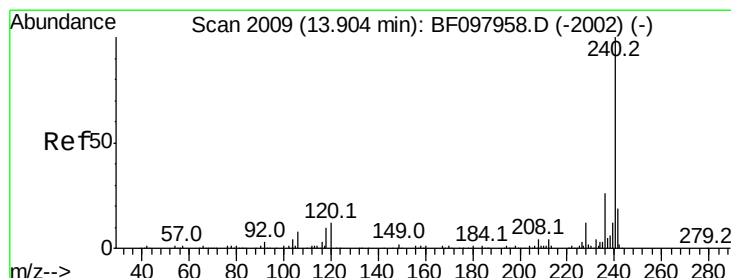
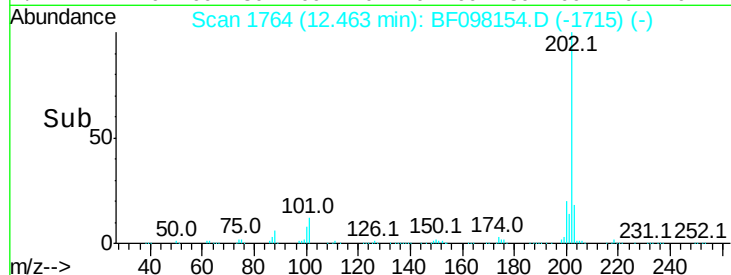
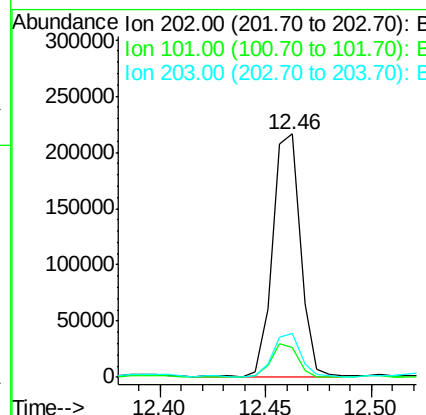
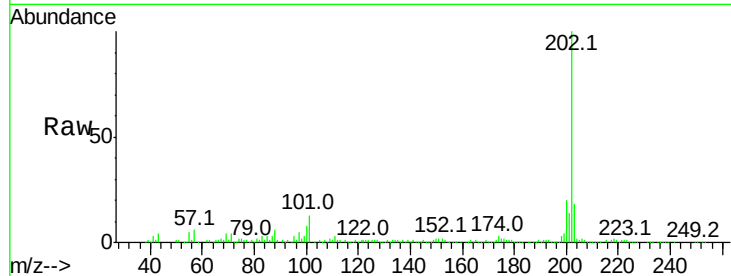
ClientSampled :

TP-3DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	12.5	0.0	33.2		
203	17.9	0.0	38.1		

Manual Integrations
APPROVED

Sohil
8/30/2017 6:49:03 PM



#75

Chrysene-d12

Concen: 20.000 ng

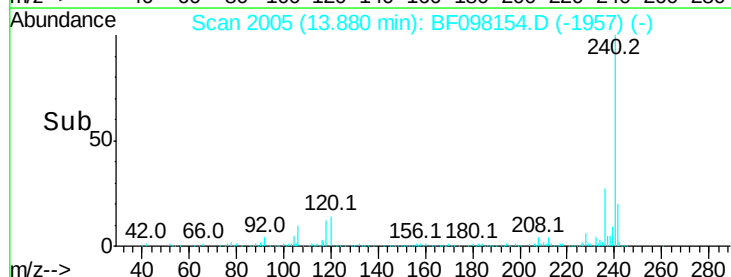
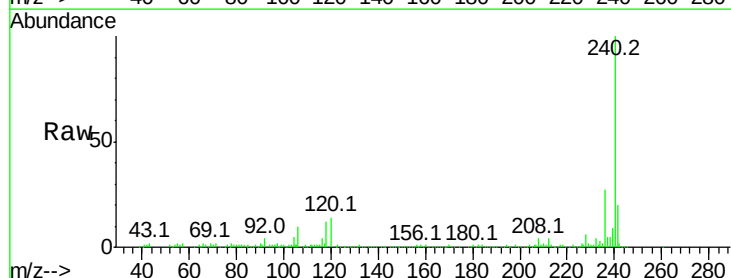
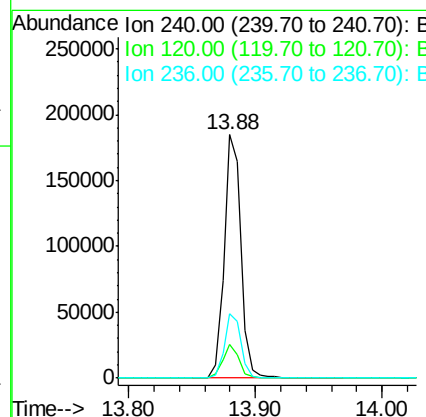
RT: 13.88 min Scan# 2005

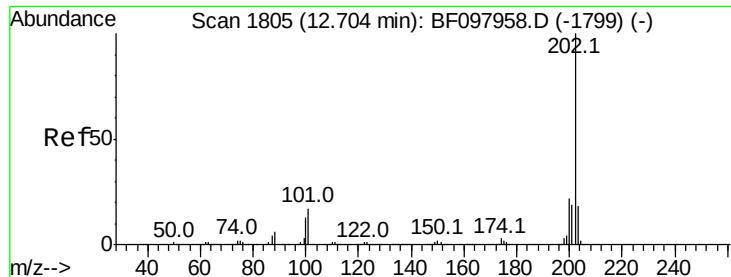
Delta R.T. -0.02 min

Lab File: BF098154.D

Acq: 30 Aug 2017 12:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	13.9	5.8	8.8#		
236	26.6	20.5	30.7		





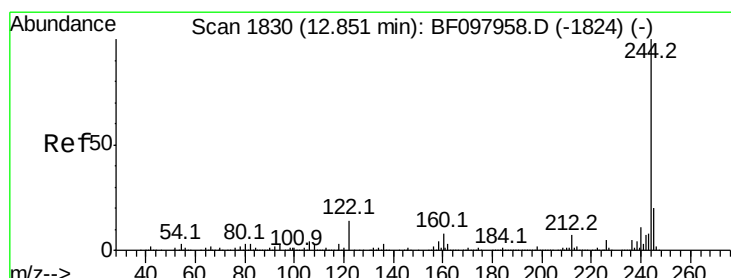
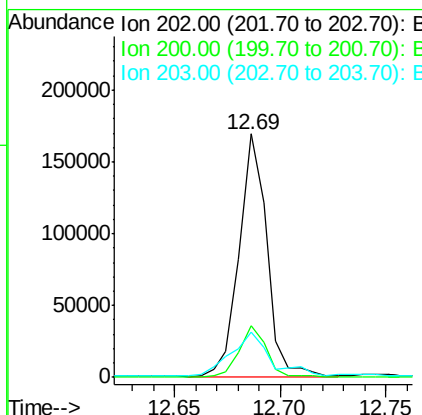
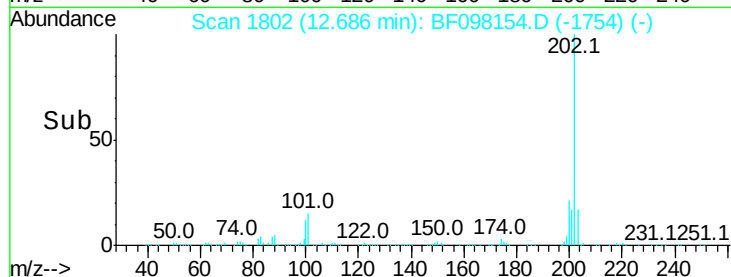
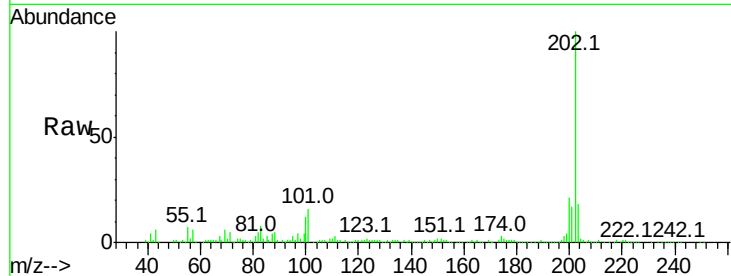
#77
Pvrene
Concen: 10.992 ng
RT: 12.69 min Scan# 1802
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Instrument :
BNA_F
ClientSampled :
TP-3DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.0	17.6	26.4	
203	18.4	14.4	21.6	

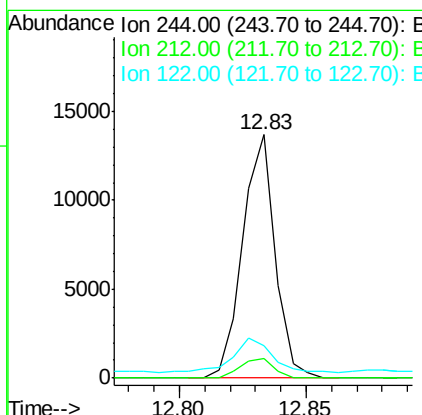
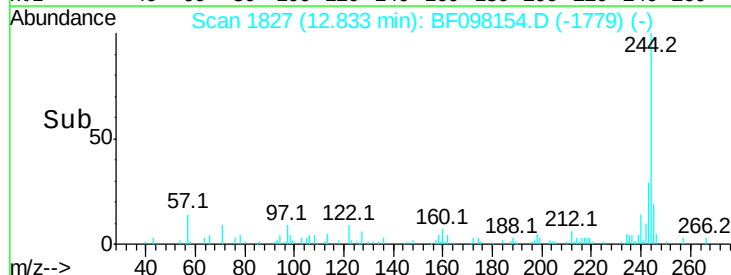
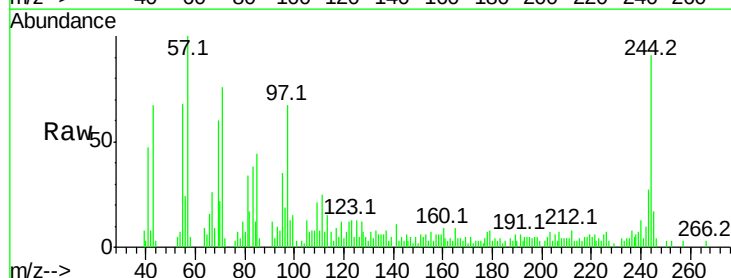
Manual Integrations
APPROVED

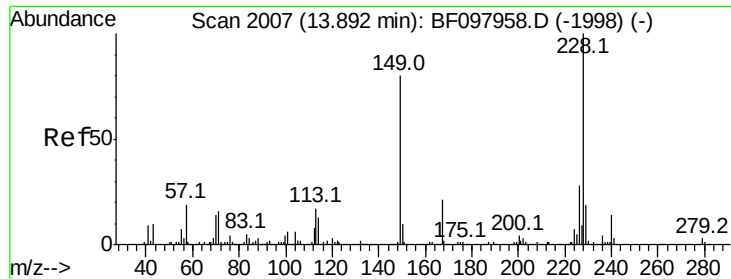
Sohil
8/30/2017 6:49:03 PM



#78
Terphenyl-d14
Concen: 1.486 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.2	6.0	9.0	
122	13.2	10.3	15.5	





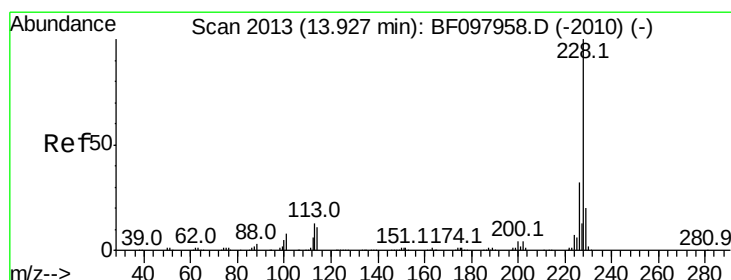
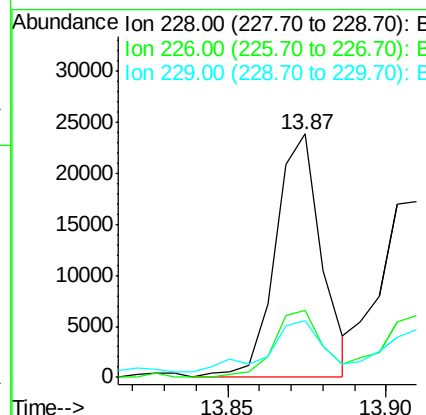
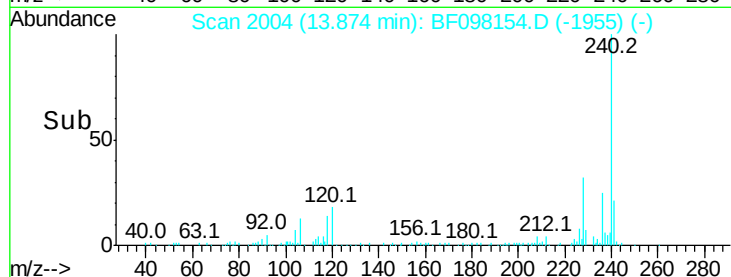
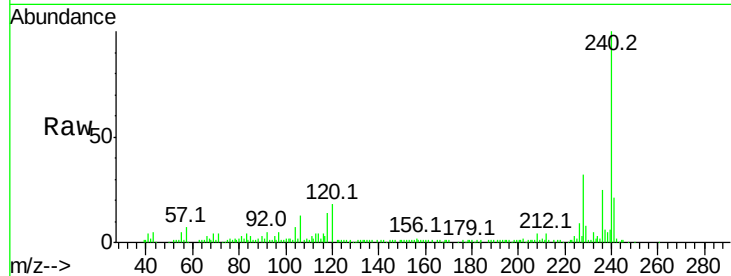
#80
Benzo(a)anthracene
Concen: 2.374 ng
RT: 13.87 min Scan# 2004
Delta R.T. -0.01 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Instrument :
BNA_F
ClientSampled :
TP-3DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	33.8
229	23.4	16.3	24.5

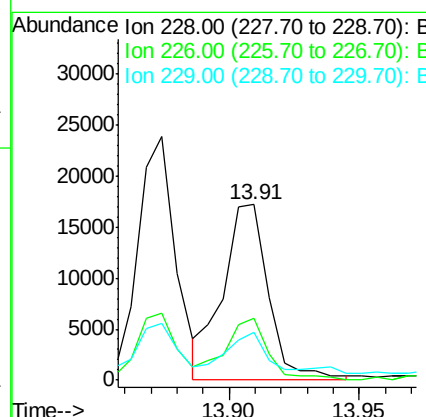
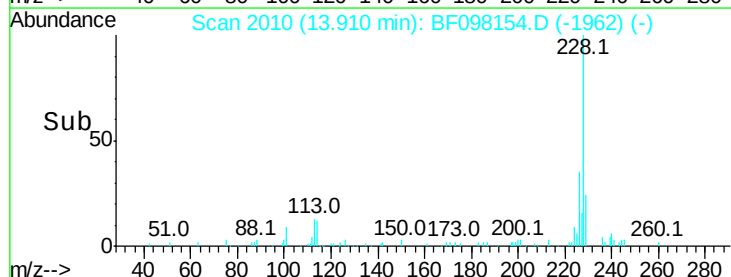
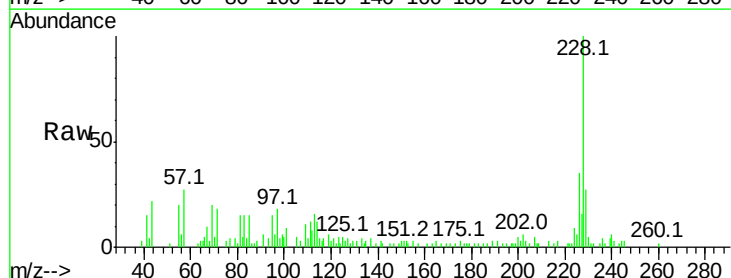
Manual Integrations
APPROVED

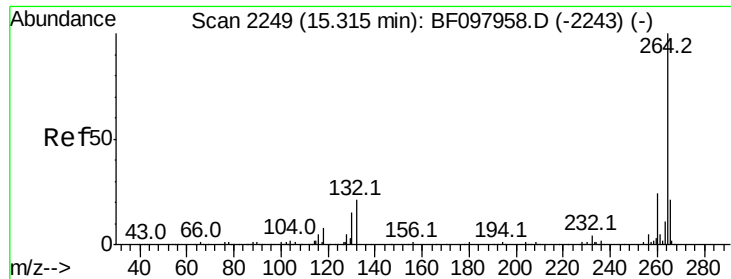
Sohil
8/30/2017 6:49:03 PM



#82
Chrysene
Concen: 2.089 ng m
RT: 13.91 min Scan# 2010
Delta R.T. -0.02 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.2	24.9	37.3
229	26.9	15.8	23.6





#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. -0.01 min
Lab File: BF098154.D
Acq: 30 Aug 2017 12:37

Instrument :
BNA_F
ClientSampleId :
TP-3DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	20.4	17.2	25.8

Manual Integrations
APPROVED

Sohil
8/30/2017 6:49:03 PM

