

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
 Data File : BF098131.D
 Acq On : 30 Aug 2017 00:46
 Operator : SJ/JU
 Sample : I4979-05
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-5

Manual Integrations
 APPROVED

Sohil
 8/30/2017 6:45:12 PM

Quant Time: Aug 30 13:50:05 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	131369	20.00	ng	-0.02
21) Naphthalene-d8	8.02	136	475786	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	209080	20.00	ng	-0.01
63) Phenanthrene-d10	11.26	188	318849	20.00	ng	0.00
75) Chrysene-d12	13.89	240	271735	20.00	ng	-0.01
86) Perylene-d12	15.31	264	213687	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	933931	108.14	ng	-0.01
7) Phenol-d6	6.38	99	1245384	106.13	ng	0.00
23) Nitrobenzene-d5	7.30	82	696397	79.51	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	152887	84.28	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	877829	61.69	ng	-0.01
78) Terphenyl-d14	12.84	244	553528	42.48	ng	-0.01
Target Compounds						
10) Phenol	6.39	94	62934	4.586	ng	Qvalue 93
27) 2,4-Dimethylphenol	7.68	122	36133	4.757	ng	# 57
31) Naphthalene	8.06	128	3968330	160.658	ng	98
37) 2-Methylnaphthalene	8.75	142	2194966	144.943	ng	98
45) 1,1'-Biphenyl	9.20	154	563307	29.545	ng	96
49) Dimethylphthalate	9.49	163	269394	17.627	ng	99
51) Acenaphthene	9.82	154	958108	68.670	ng	98
54) Dibenzofuran	9.99	168	1085103	58.029	ng	97
57) Fluorene	10.33	166	753308	52.106	ng	96
70) Phenanthrene	11.29	178	1281150	75.404	ng	99
71) Anthracene	11.33	178	310733	18.031	ng	99
72) Carbazole	11.49	167	37665	2.303	ng	# 88
74) Fluoranthene	12.47	202	356529	20.104	ng	99
77) Pyrene	12.69	202	283051	12.736	ng	97
80) Benzo(a)anthracene	13.88	228	46163	2.834	ng	# 93
82) Chrysene	13.92	228	37502	2.315	ng	# 94

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

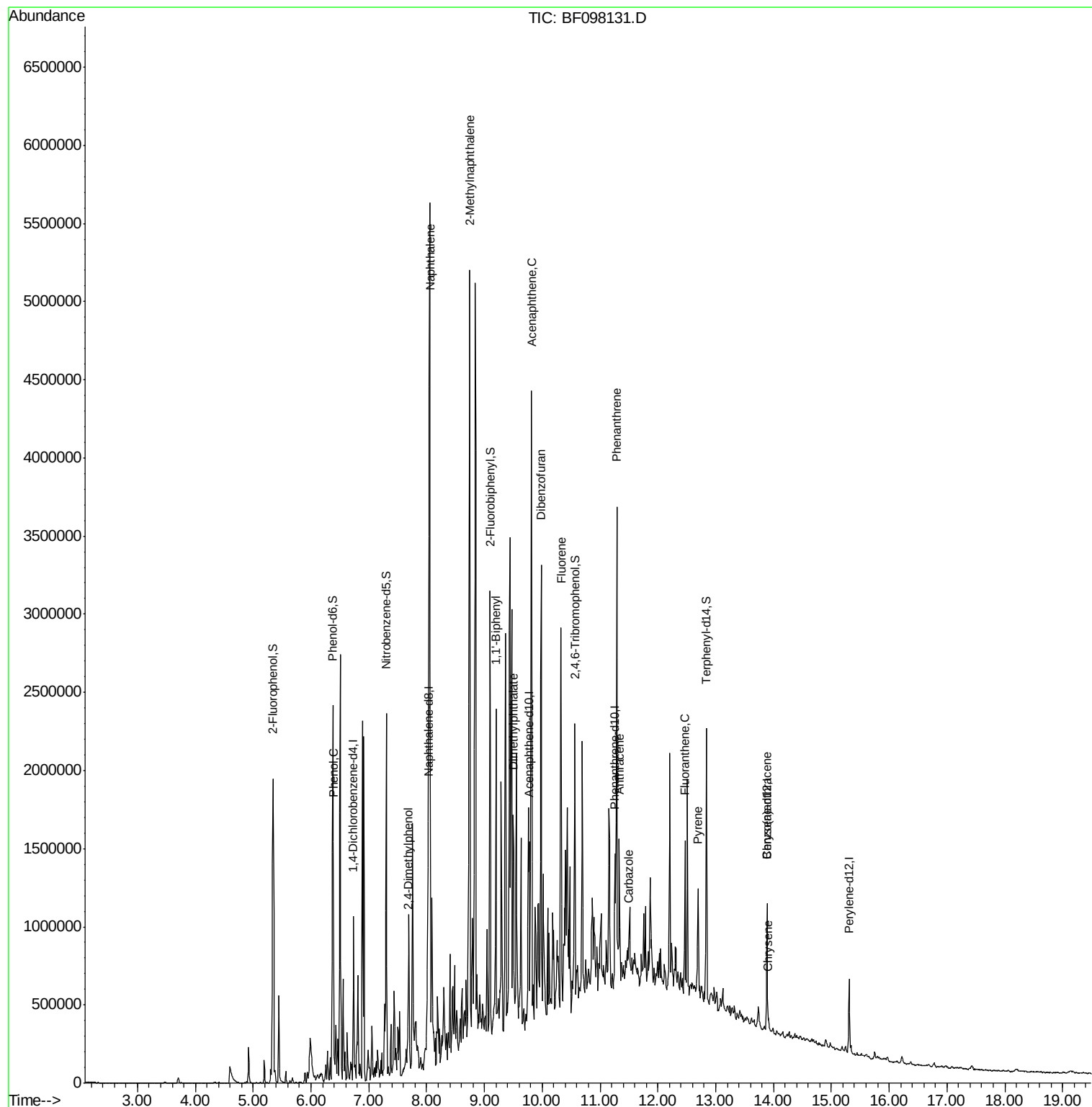
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
Data File : BF098131.D
Acq On : 30 Aug 2017 00:46
Operator : SJ/JU
Sample : I4979-05
Misc :
ALS Vial : 25 Sample Multiplier: 1

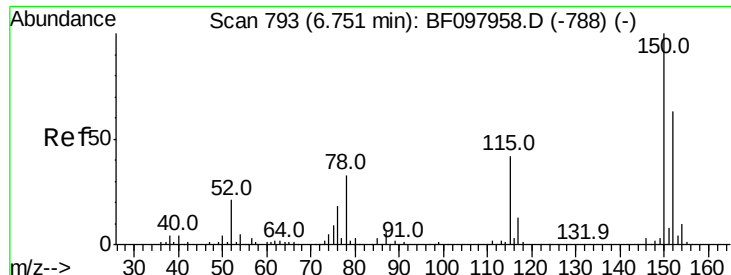
Instrument :
BNA_F
ClientSampled :
TP-5

Manual Integrations
APPROVED

Sohil
8/30/2017 6:45:12 PM

Quant Time: Aug 30 13:50:05 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

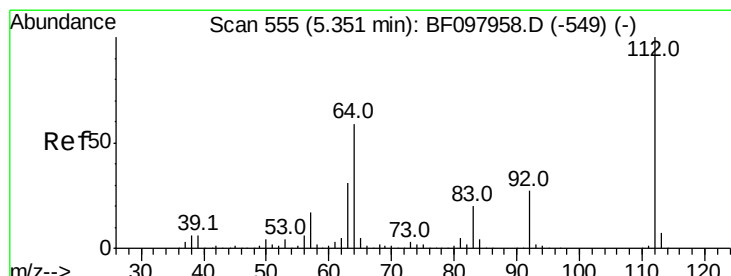
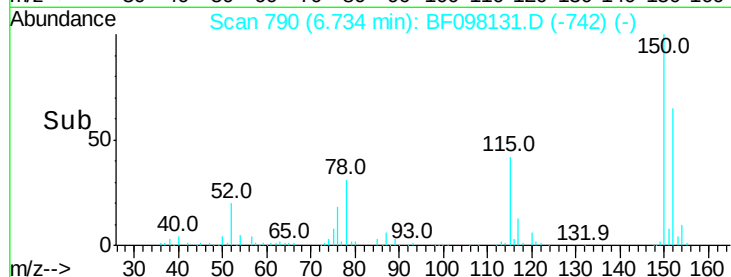
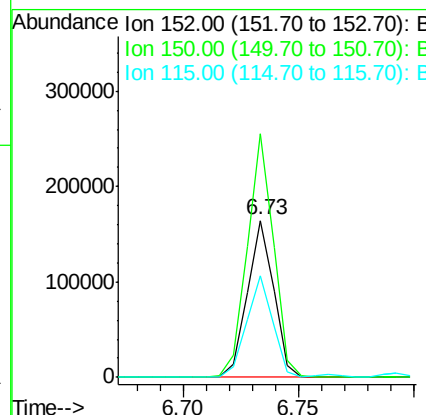
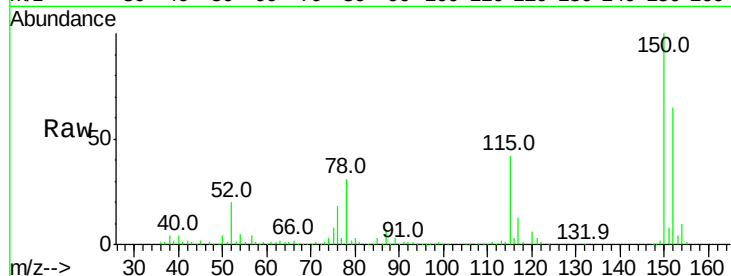
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 790
Delta R.T. -0.02 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Instrument :
BNA_F
ClientSampleId :
TP-5

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.0	126.2	189.2
115	64.5	52.2	78.2

Manual Integrations
APPROVED

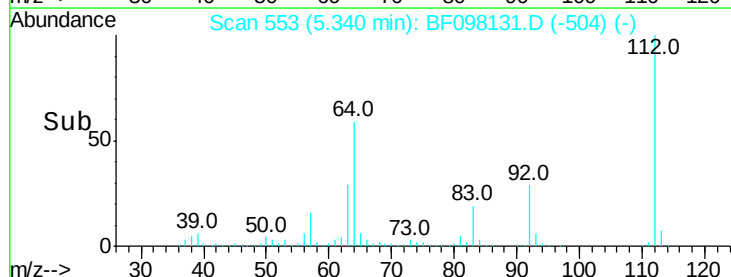
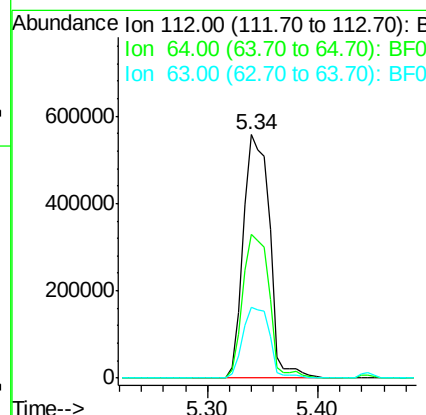
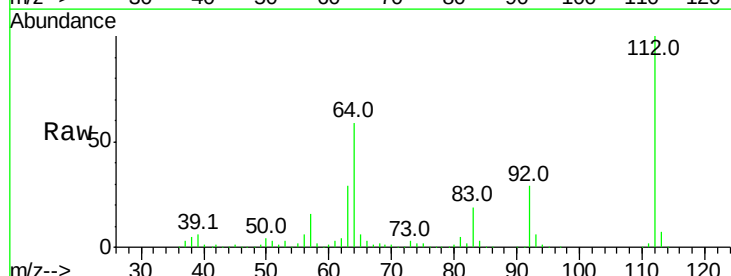
Sohil
8/30/2017 6:45:12 PM

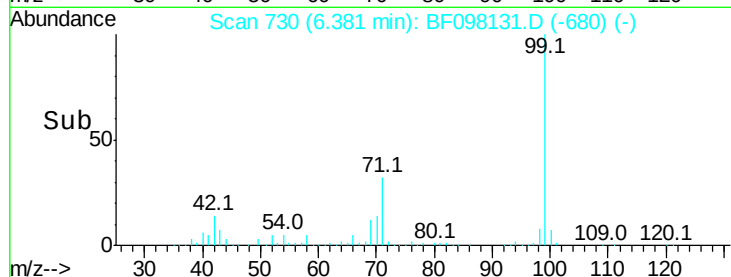
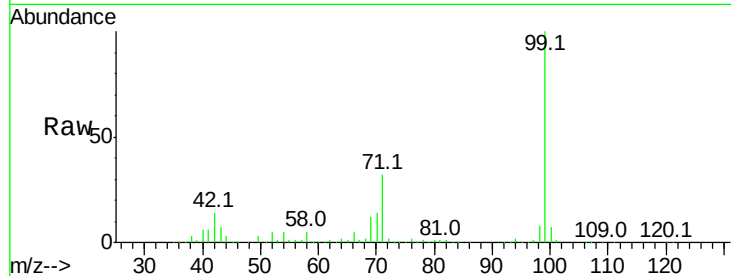
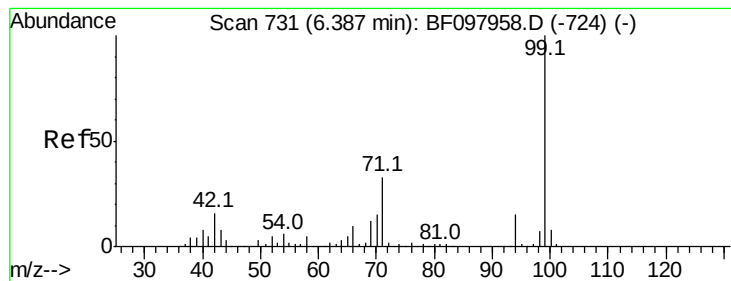


#5

2-Fluorophenol
Concen: 108.136 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.2	46.0	69.0
63	29.3	23.4	35.0





#7

Phenol-d6

Concen: 106.129 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

Tot Ion:	99	Resp:	1245384
Ion	Ratio	Lower	Upper
99	100		
42	14.3	13.5	20.3
71	31.8	24.5	36.7

Instrument :

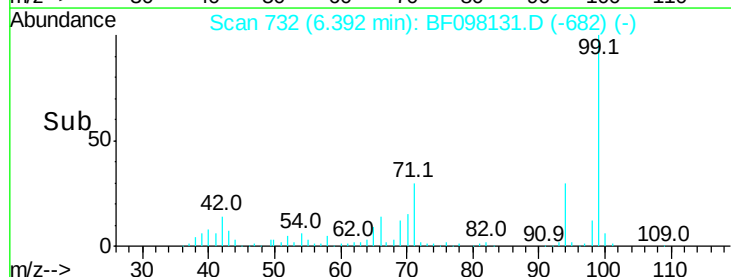
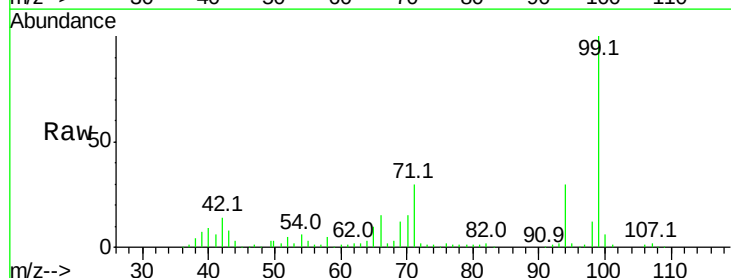
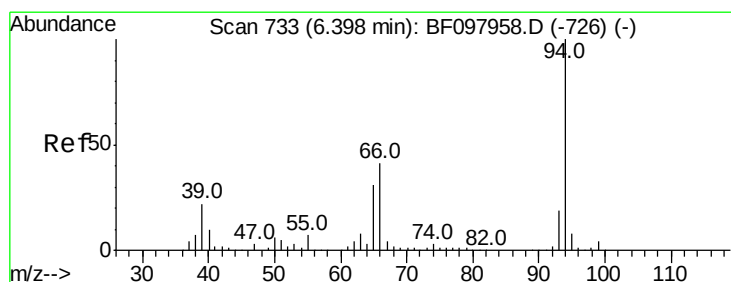
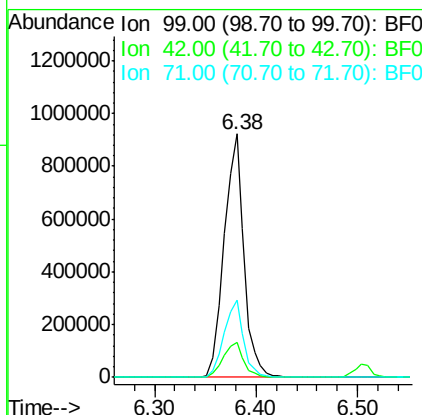
BNA_F

ClientSampleId :

TP-5

Manual Integrations
APPROVED

Sohil
8/30/2017 6:45:12 PM



#10

Phenol

Concen: 4.586 ng

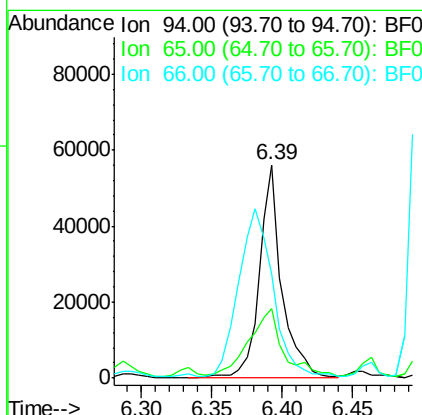
RT: 6.39 min Scan# 732

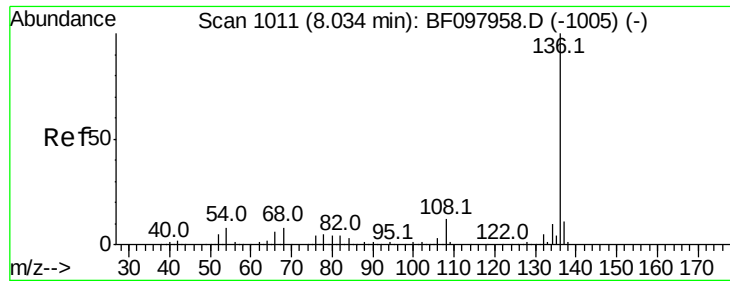
Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

Tgt Ion:	94	Resp:	62934
Ion	Ratio	Lower	Upper
94	100		
65	32.9	9.9	49.9
66	48.7	23.1	63.1





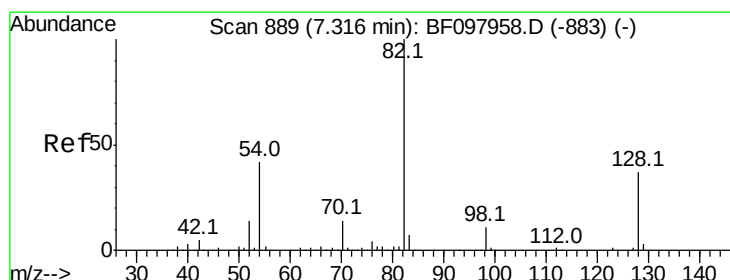
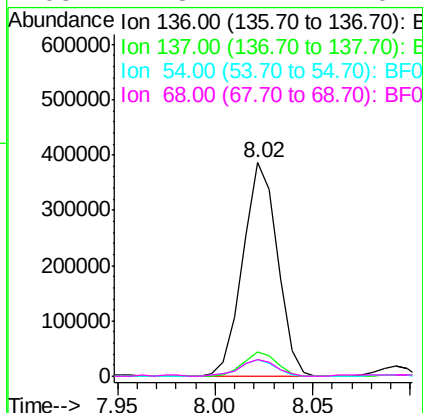
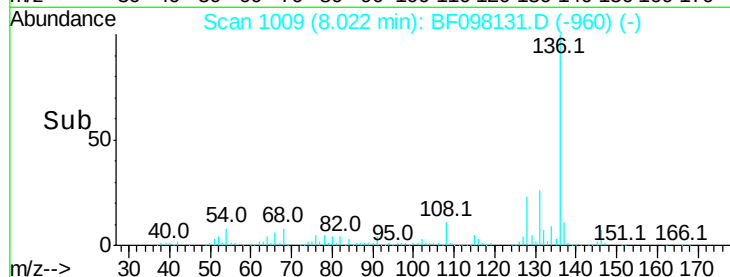
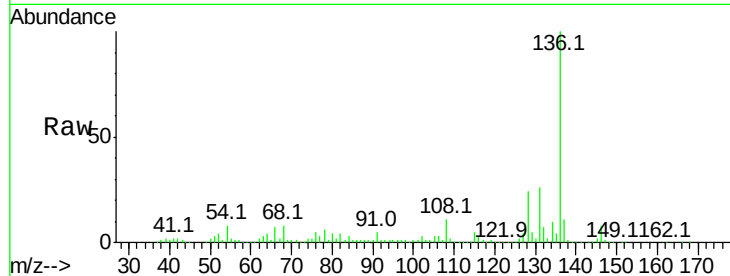
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.02 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Instrument :
BNA_F
ClientSampled :
TP-5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	11.1	8.5	12.7		
54	8.0	4.9	7.3#		
68	7.8	4.1	6.1#		

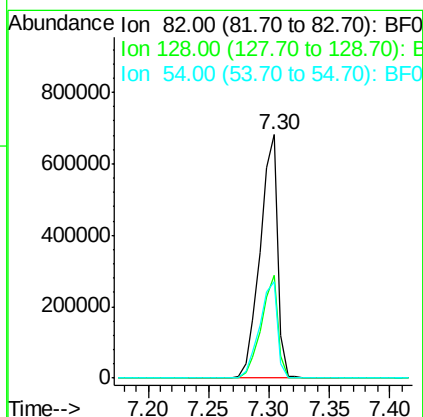
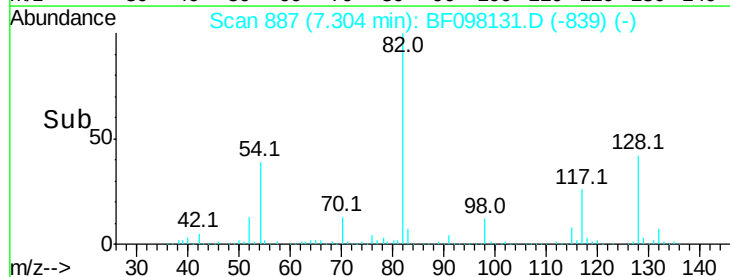
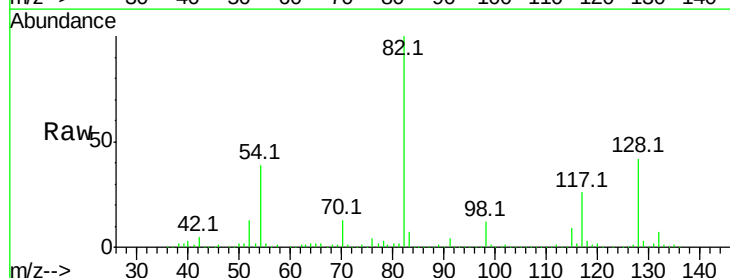
Manual Integrations
APPROVED

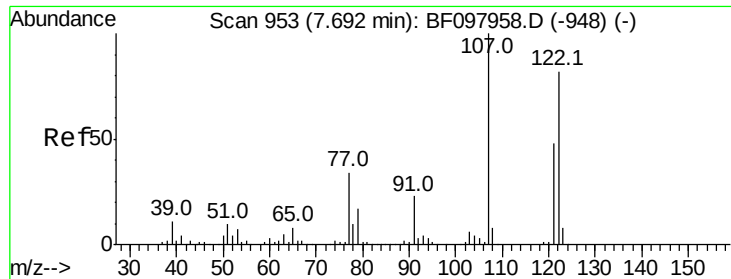
Sohil
8/30/2017 6:45:12 PM



#23
Nitrobenzene-d5
Concen: 79.514 ng
RT: 7.30 min Scan# 887
Delta R.T. -0.02 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	42.0	34.0	51.0		
54	39.4	42.2	63.2#		





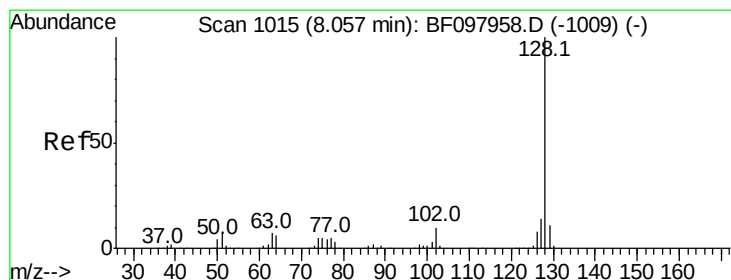
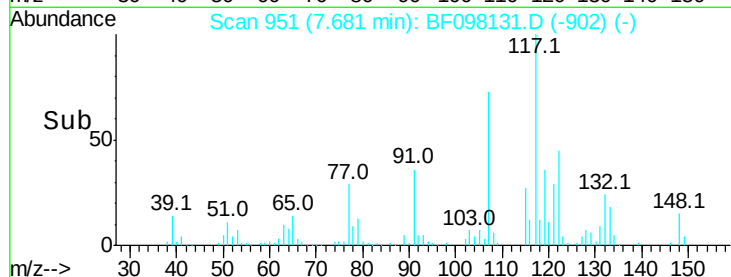
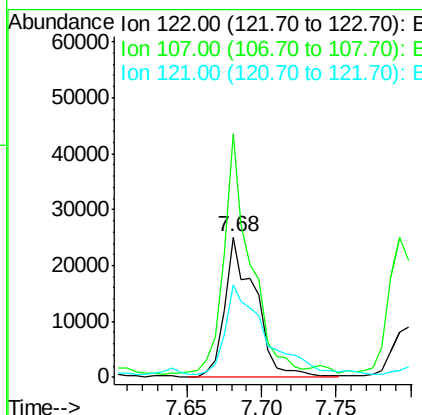
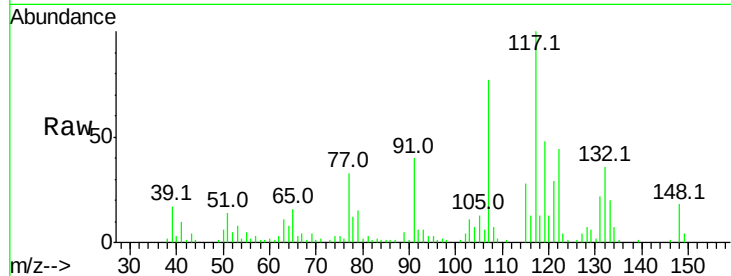
#27
2,4-Dimethylphenol
Concen: 4.757 ng
RT: 7.68 min Scan# 951
Delta R.T. -0.01 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Instrument :
BNA_F
ClientSampled :
TP-5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
122	100		36133		
107	173.9	89.2	133.8#		
121	66.4	45.2	67.8		

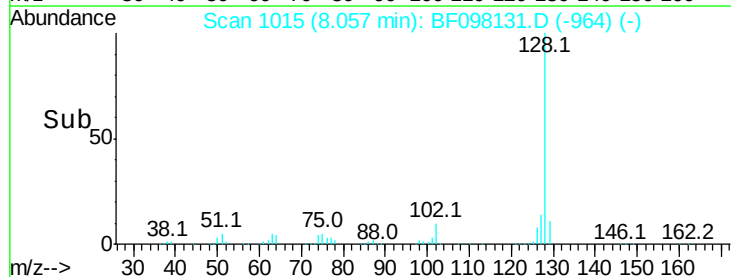
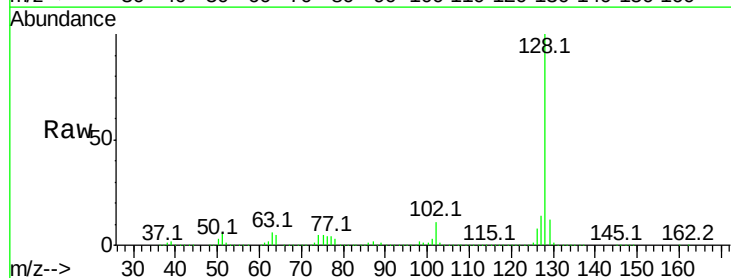
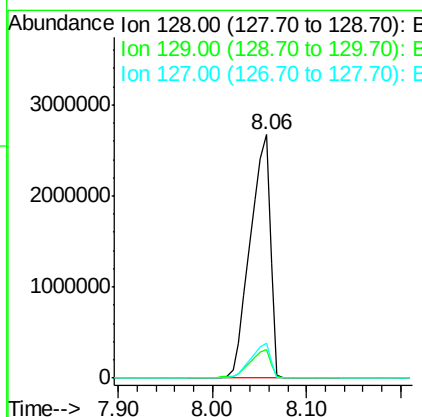
Manual Integrations
APPROVED

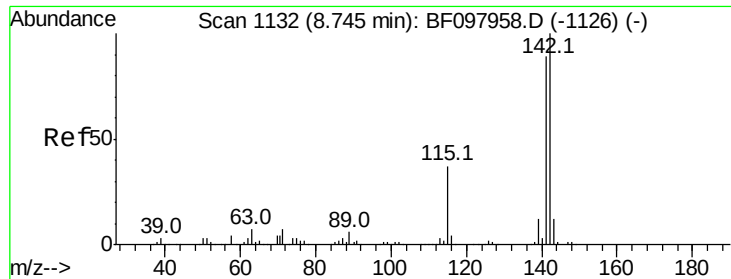
Sohil
8/30/2017 6:45:12 PM



#31
Naphthalene
Concen: 160.658 ng
RT: 8.06 min Scan# 1015
Delta R.T. 0.00 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
128	100		3968330		
129	11.7	9.0	13.6		
127	14.5	10.8	16.2		





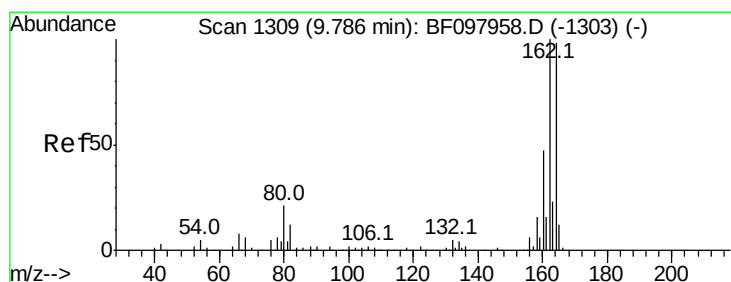
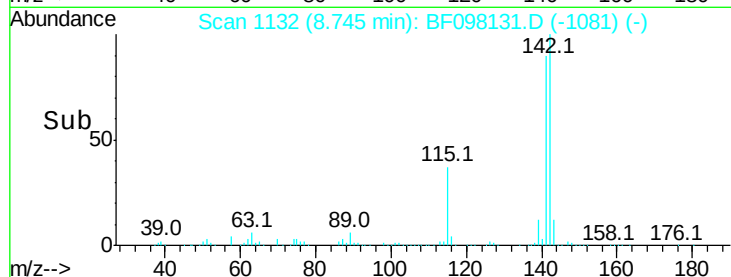
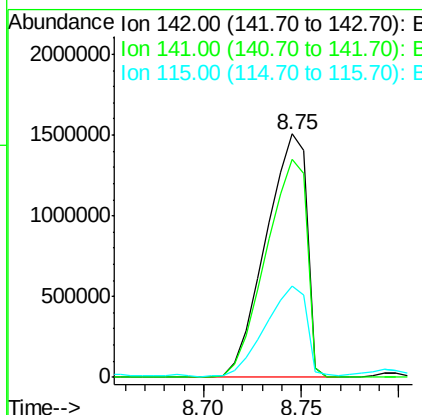
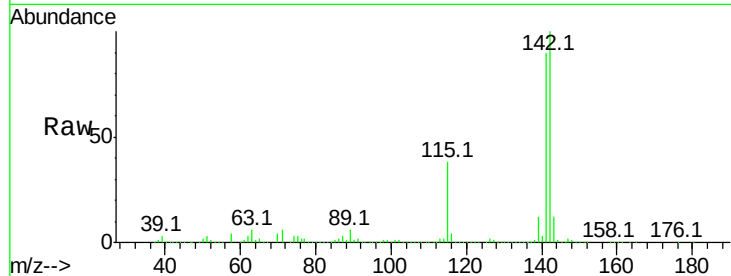
#37
 2-Methylnaphthalene
 Concen: 144.943 ng
 RT: 8.75 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: BF098131.D
 Acq: 30 Aug 2017 00:46

Instrument :
 BNA_F
 ClientSampled :
 TP-5

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.3	106.9
115	37.7	27.1	40.7

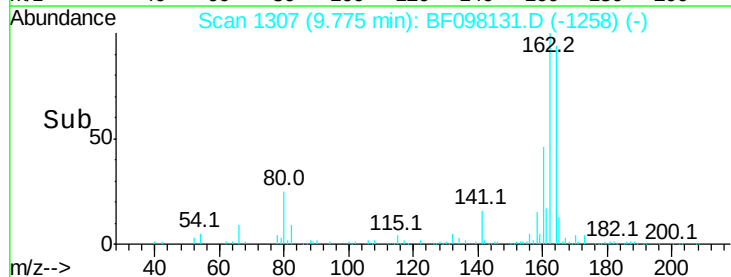
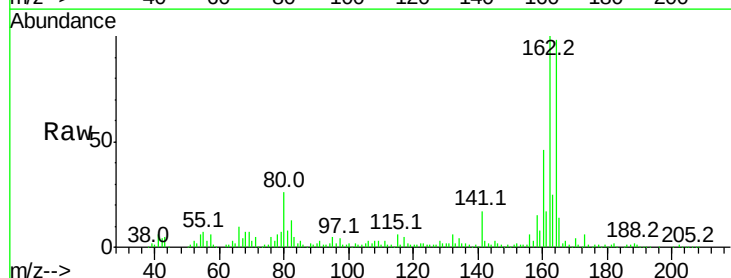
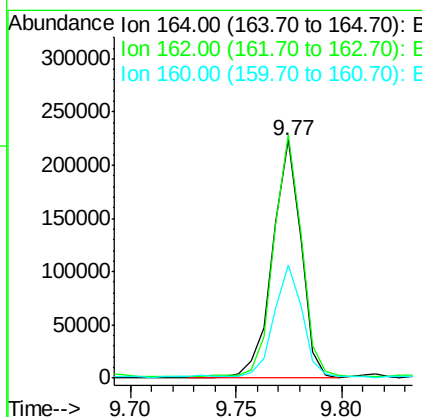
Manual Integrations
 APPROVED

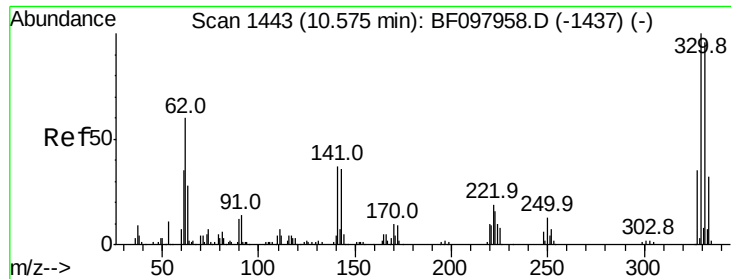
Sohil
 8/30/2017 6:45:12 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF098131.D
 Acq: 30 Aug 2017 00:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.6	123.8
160	47.3	36.2	54.2





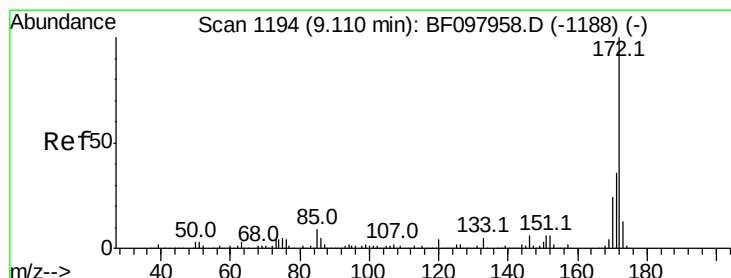
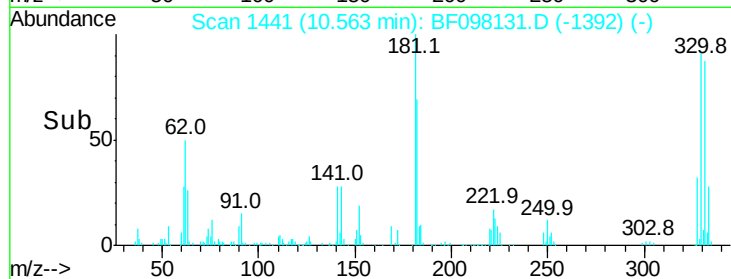
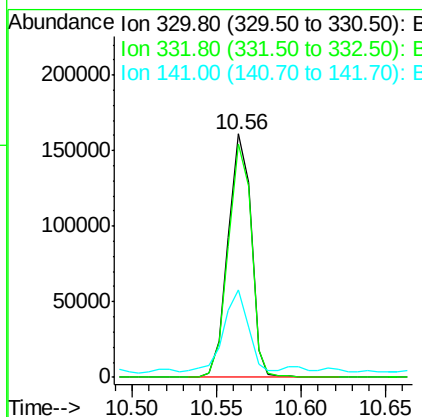
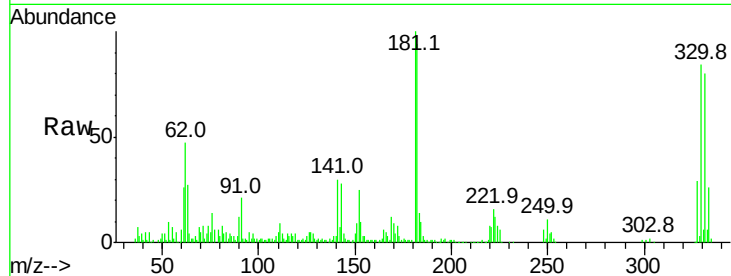
#41
 2,4,6-Tribromophenol
 Concen: 84.277 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF098131.D
 Acq: 30 Aug 2017 00:46

Instrument :
 BNA_F
 ClientSampled :
 TP-5

Tot Ion	Ratio	Resp	Lower	Upper
330	100	152887		
332	96.6	76.6	115.0	
141	37.7	31.4	47.2	

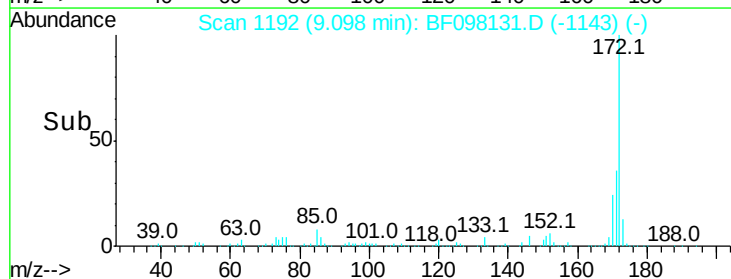
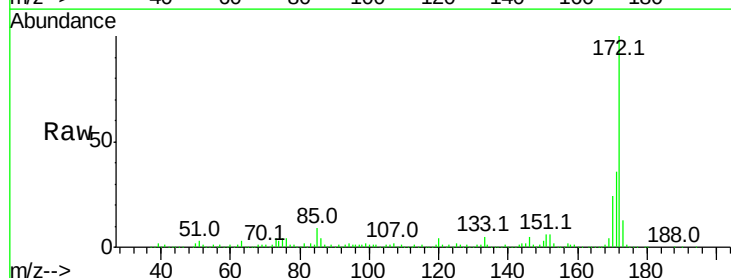
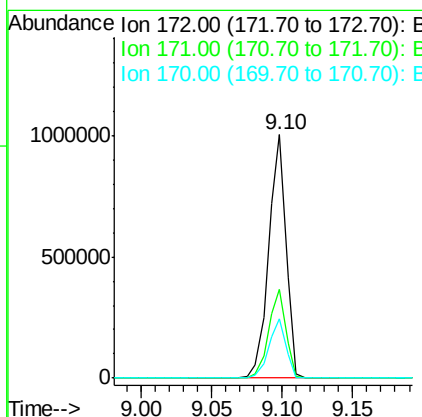
Manual Integrations
 APPROVED

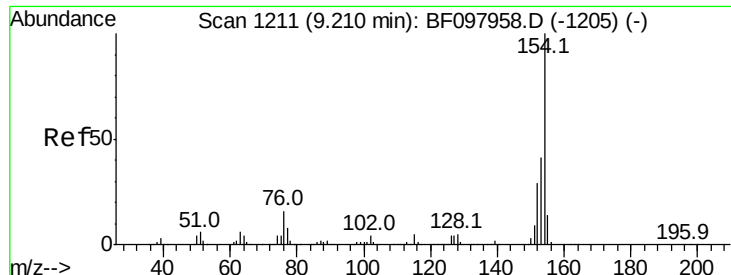
Sohil
 8/30/2017 6:45:12 PM



#44
 2-Fluorobiphenyl
 Concen: 61.685 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: BF098131.D
 Acq: 30 Aug 2017 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	877829		
171	36.3	29.6	44.4	
170	24.2	19.8	29.8	





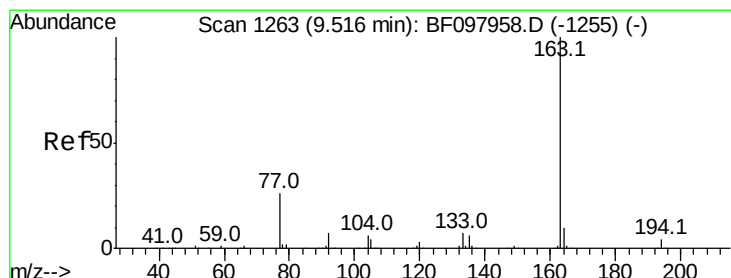
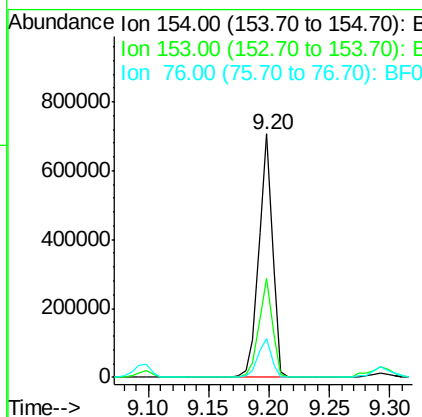
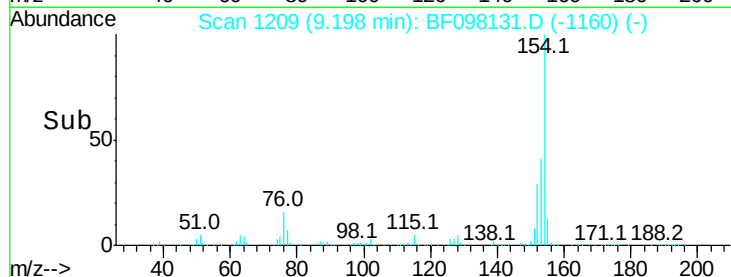
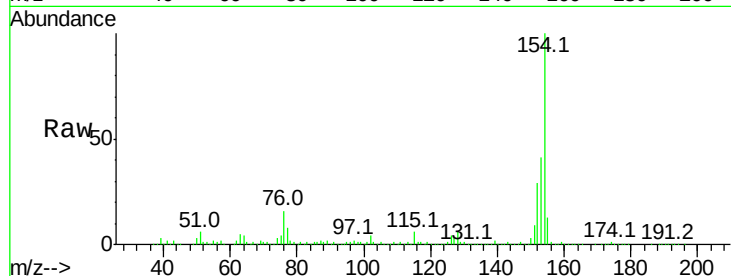
#45
 1,1'-Biphenyl
 Concen: 29.545 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF098131.D
 Acq: 30 Aug 2017 00:46

Instrument :
 BNA_F
 ClientSampleId :
 TP-5

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.6	21.2	61.2	
76	16.1	0.0	29.9	

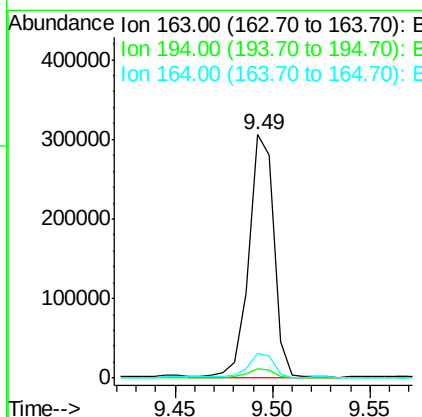
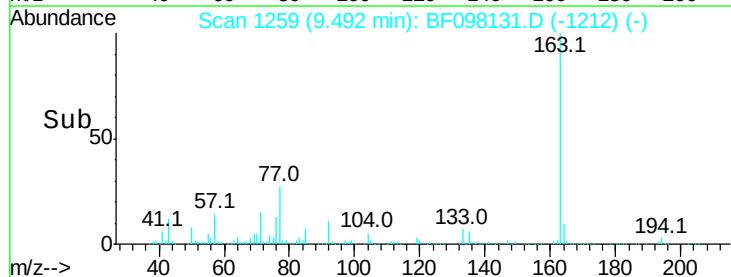
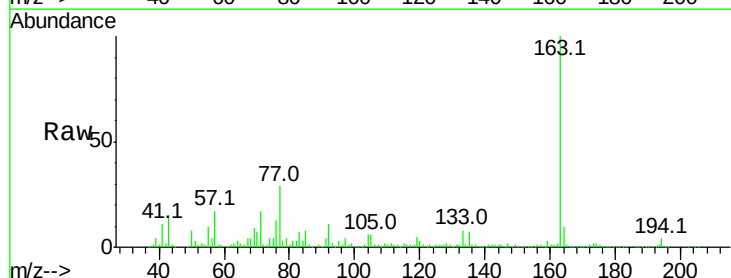
Manual Integrations
 APPROVED

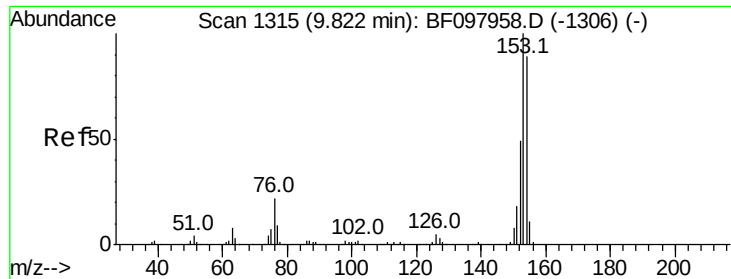
Sohil
 8/30/2017 6:45:12 PM



#49
 Dimethylphthalate
 Concen: 17.627 ng
 RT: 9.49 min Scan# 1259
 Delta R.T. -0.02 min
 Lab File: BF098131.D
 Acq: 30 Aug 2017 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.6	2.6	4.0	
164	10.2	8.4	12.6	





#51

Acenaphthene

Concen: 68.670 ng

RT: 9.82 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

Instrument :

BNA_F

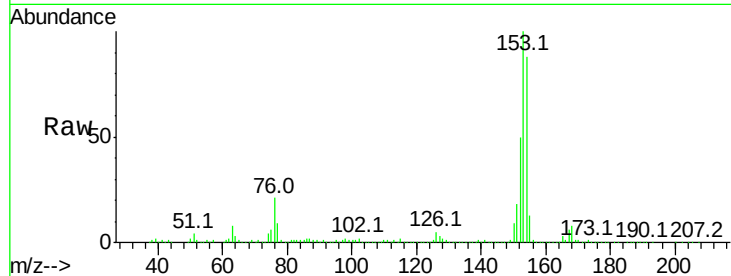
ClientSampled :

TP-5

Tot Ion:	154	Resp:	958108
Ion Ratio	Lower	Upper	
154	100		
153	114.2	90.5	135.7
152	56.7	43.6	65.4

Manual Integrations
APPROVED

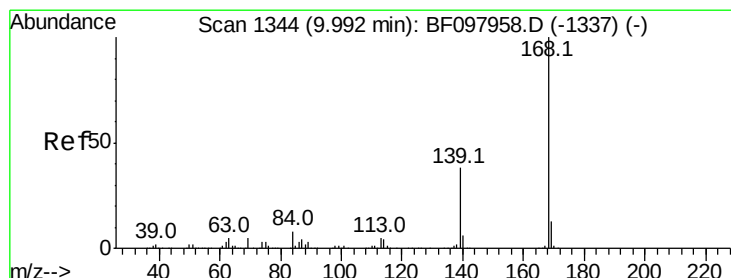
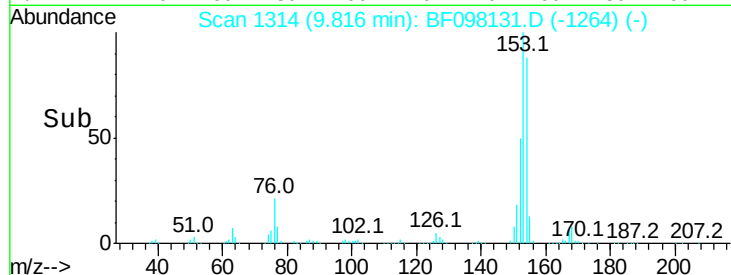
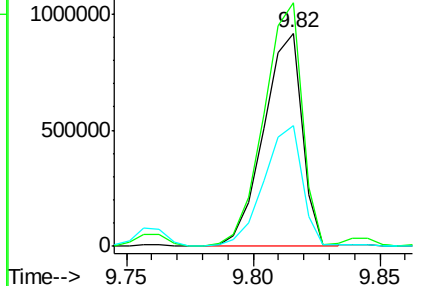
Sohil
8/30/2017 6:45:12 PM



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: 58.029 ng

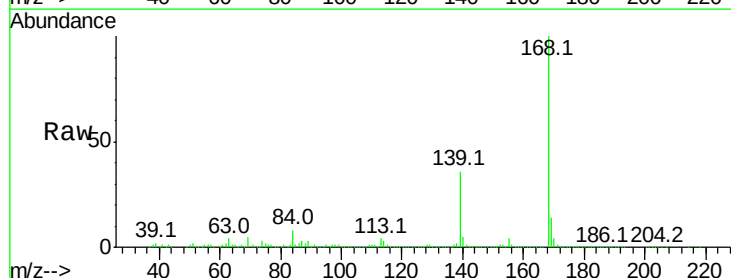
RT: 9.99 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

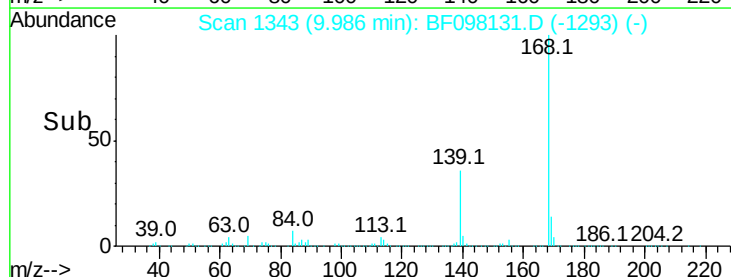
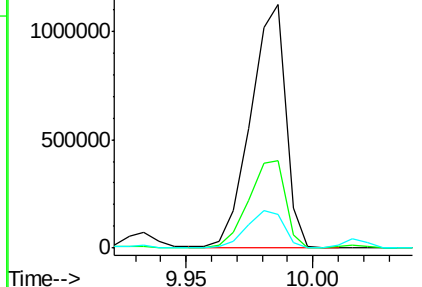
Tgt Ion:	168	Resp:	1085103
Ion Ratio	Lower	Upper	
168	100		
139	36.0	30.6	45.8
169	13.8	10.8	16.2

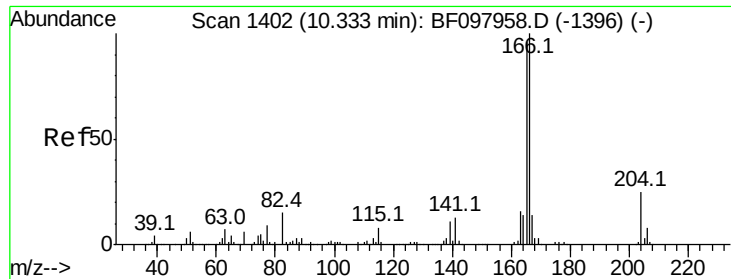


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





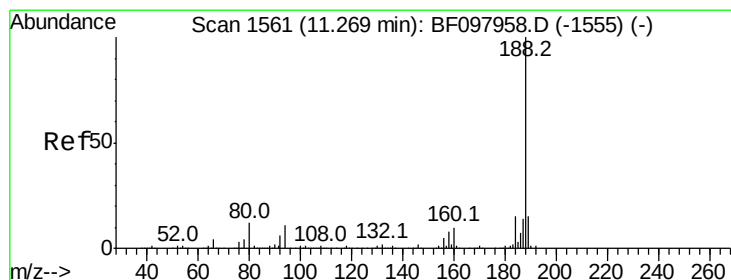
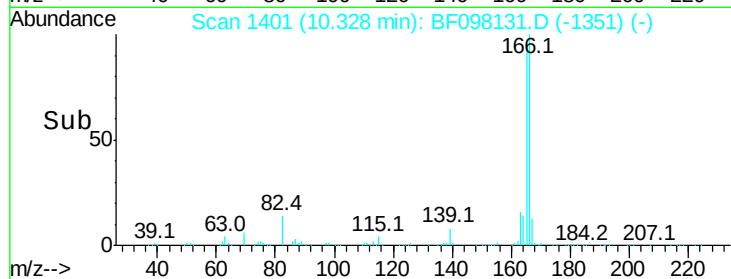
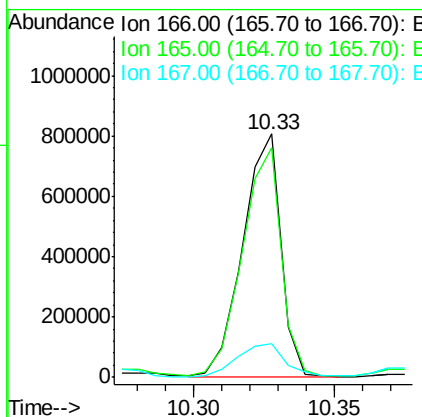
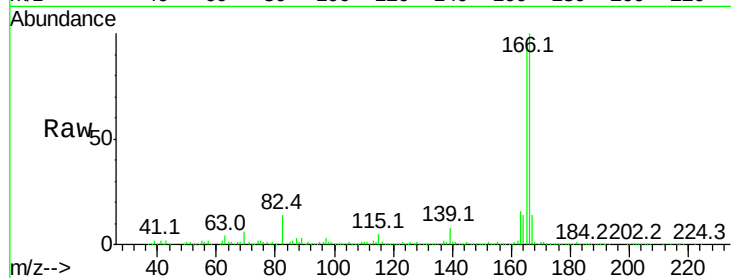
#57
Fluorene
 Concen: 52.106 ng
 RT: 10.33 min Scan# 1401
 Delta R.T. -0.01 min
 Lab File: BF098131.D
 Acq: 30 Aug 2017 00:46

Instrument :
 BNA_F
 ClientSampled :
 TP-5

Tot Ion	Ratio	Lower	Upper
166	100		
165	94.3	78.8	118.2
167	14.0	10.6	16.0

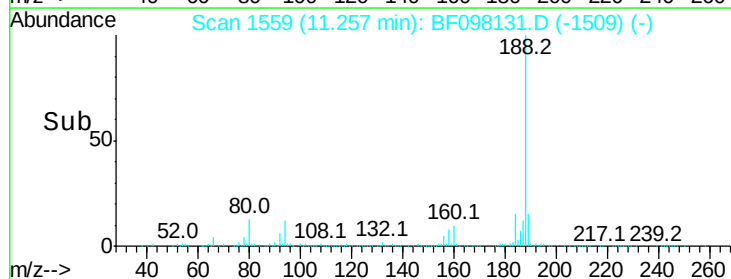
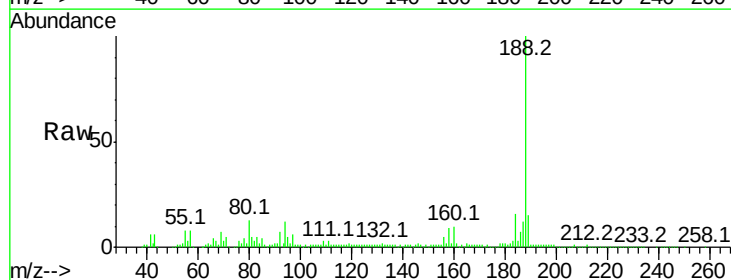
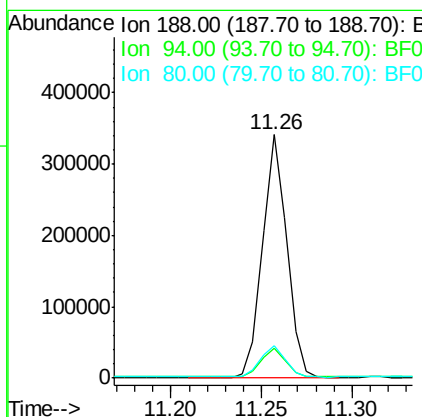
Manual Integrations
 APPROVED

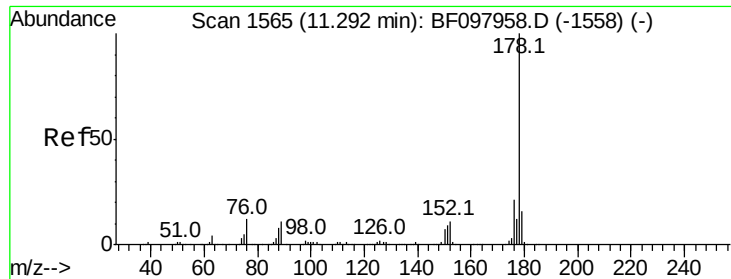
Sohil
 8/30/2017 6:45:12 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.26 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BF098131.D
 Acq: 30 Aug 2017 00:46

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.5	9.4	14.2
80	13.2	10.2	15.2





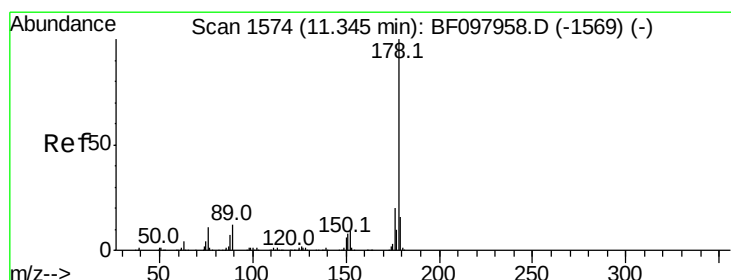
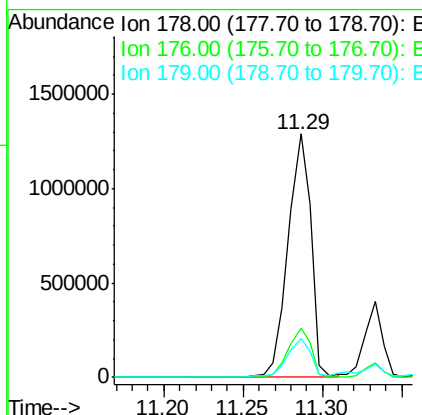
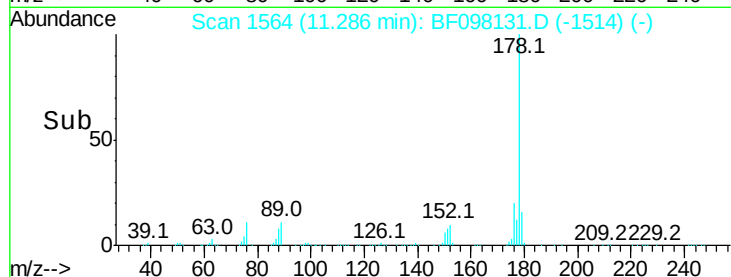
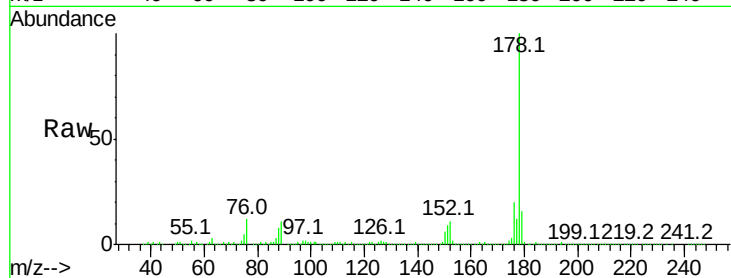
#70
Phenanthrene
Concen: 75.404 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Instrument :
BNA_F
ClientSampleId :
TP-5

Tot Ion:178 Resp: 1281150
Ion Ratio Lower Upper
178 100
176 19.9 16.2 24.4
179 15.9 12.6 19.0

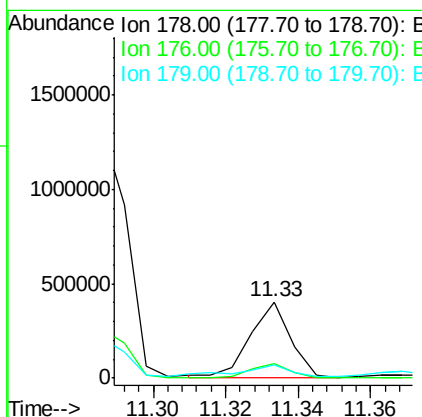
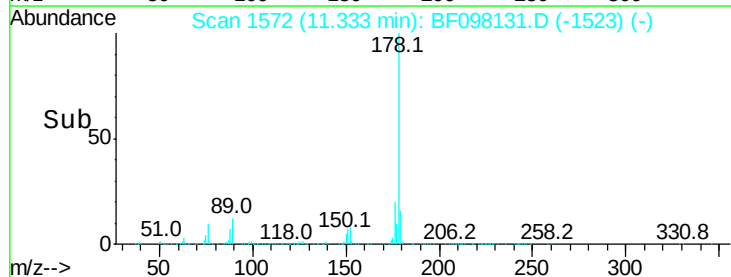
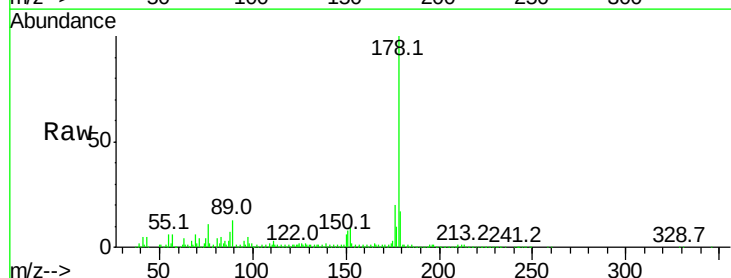
Manual Integrations
APPROVED

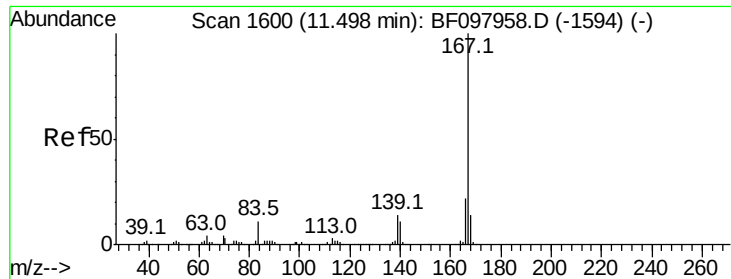
Sohil
8/30/2017 6:45:12 PM



#71
Anthracene
Concen: 18.031 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Tgt Ion:178 Resp: 310733
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 16.7 12.7 19.1





#72

Carbazole

Concen: 2.303 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

Instrument :

BNA_F

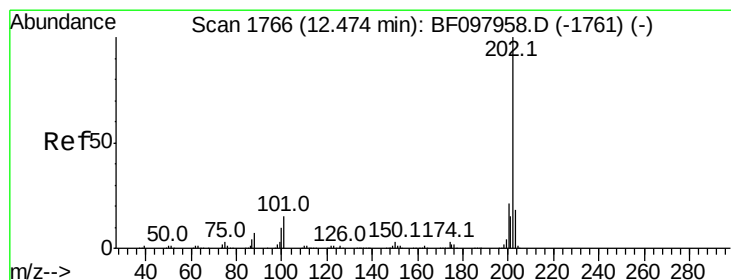
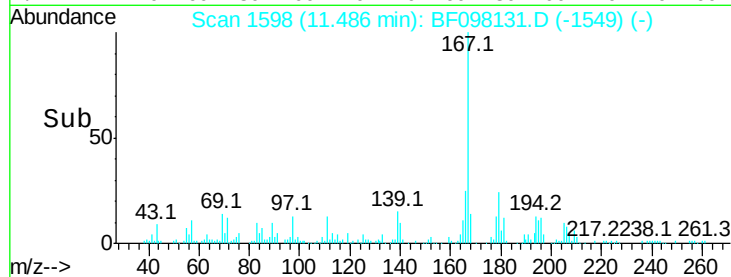
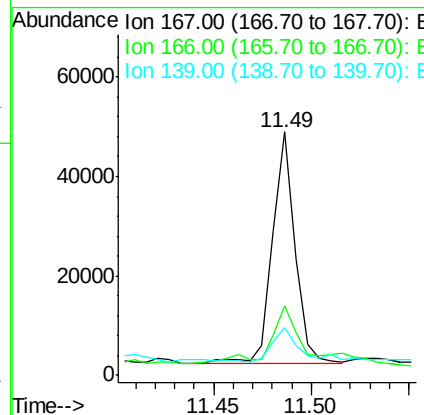
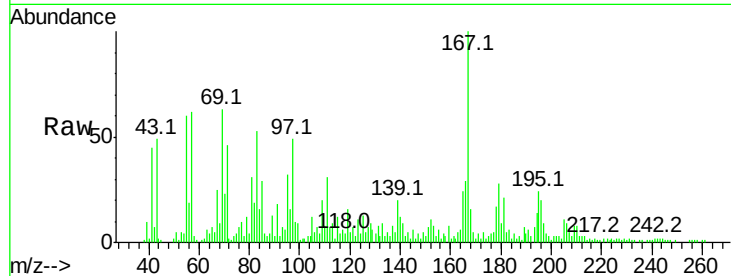
ClientSampled :

TP-5

Tot Ion:	167	Resp:	37665
Ion Ratio	Lower	Upper	
167	100		
166	28.7	18.1	27.1#
139	19.6	11.7	17.5#

Manual Integrations
APPROVED

Sohil
8/30/2017 6:45:12 PM



#74

Fluoranthene

Concen: 20.104 ng

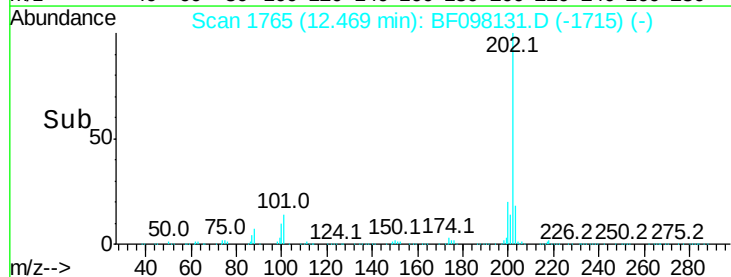
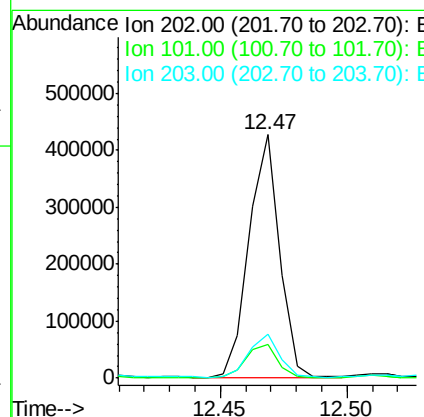
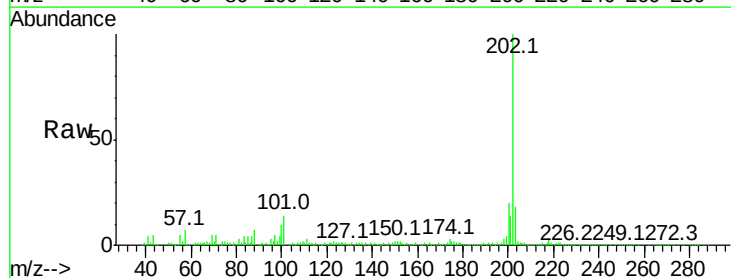
RT: 12.47 min Scan# 1765

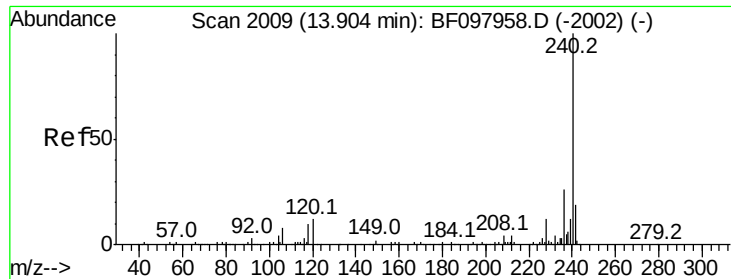
Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

Tgt Ion:	202	Resp:	356529
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	33.2
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

Instrument :

BNA_F

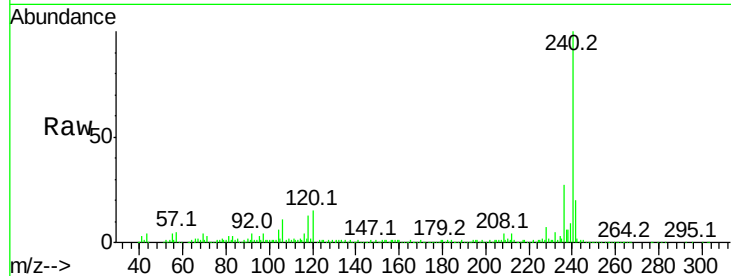
ClientSampled :

TP-5

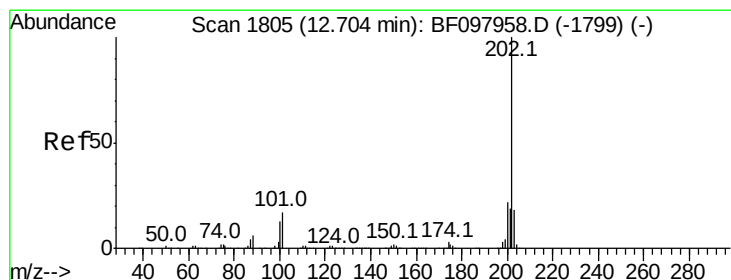
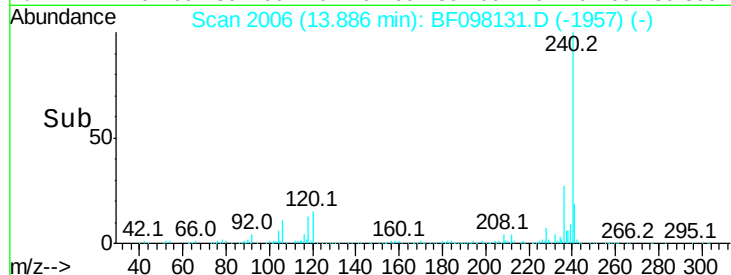
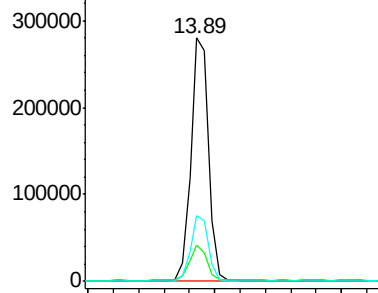
Tot Ion:	240	Resp:	271735
Ion Ratio	Lower	Upper	
240	100		
120	15.1	5.8	8.8#
236	26.9	20.5	30.7

Manual Integrations
APPROVED

Sohil
8/30/2017 6:45:12 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: 12.736 ng

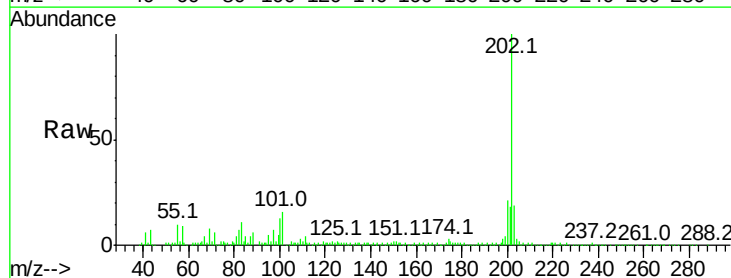
RT: 12.69 min Scan# 1803

Delta R.T. -0.01 min

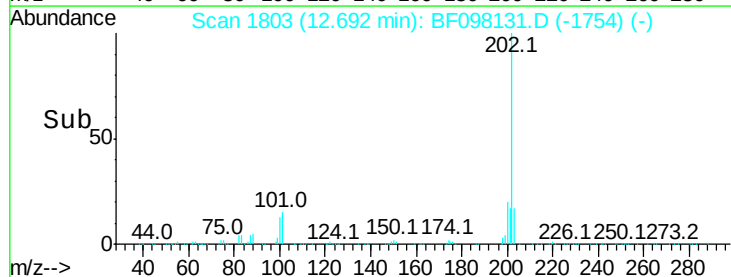
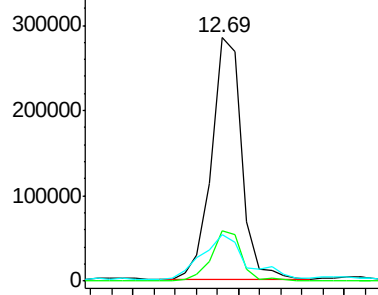
Lab File: BF098131.D

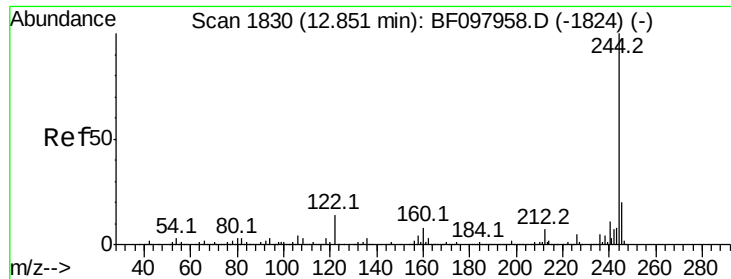
Acq: 30 Aug 2017 00:46

Tgt Ion:	202	Resp:	283051
Ion Ratio	Lower	Upper	
202	100		
200	20.6	17.6	26.4
203	19.2	14.4	21.6



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: 42.479 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

Instrument :

BNA_F

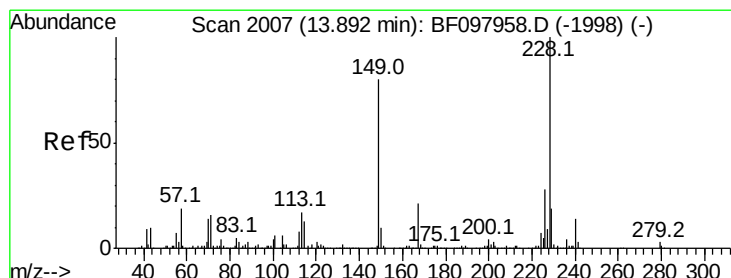
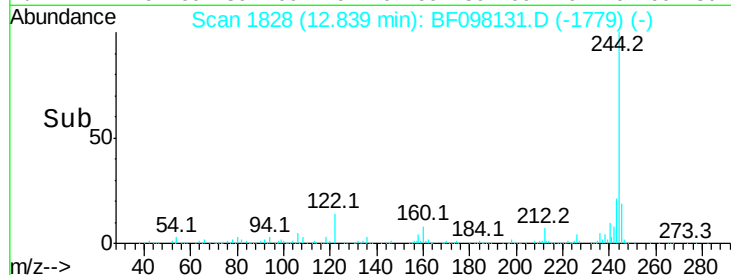
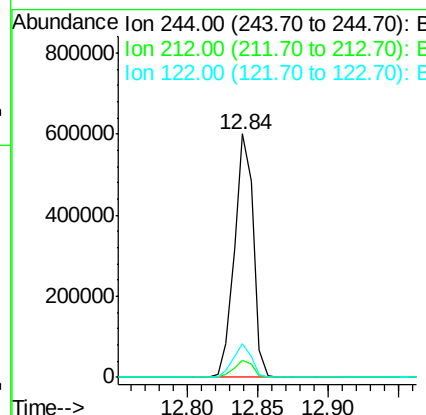
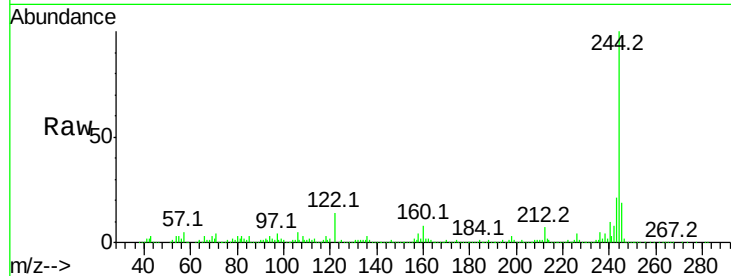
ClientSampled :

TP-5

Tot Ion:	244	Resp:	553528
Ion Ratio	Lower	Upper	
244	100		
212	7.0	6.0	9.0
122	14.1	10.3	15.5

Manual Integrations
APPROVED

Sohil
8/30/2017 6:45:12 PM



#80

Benzo(a)anthracene

Concen: 2.834 ng

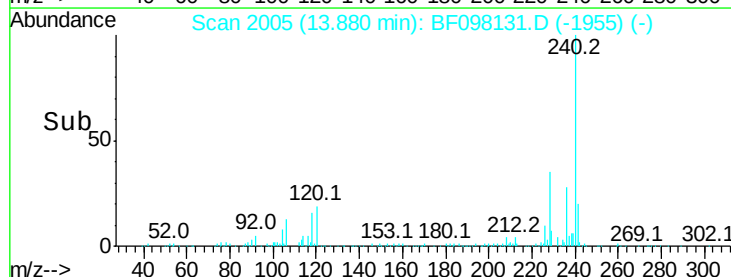
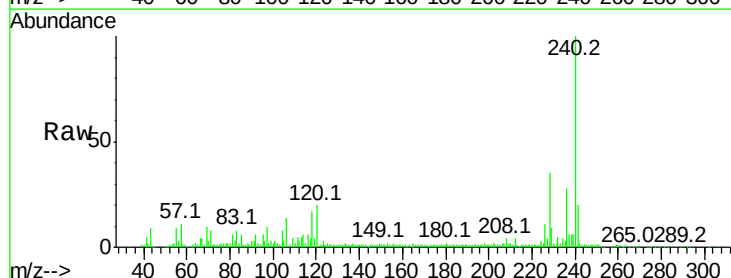
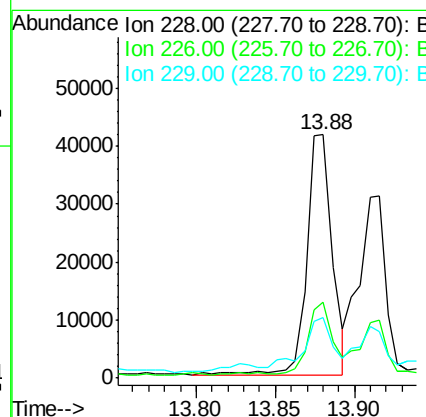
RT: 13.88 min Scan# 2005

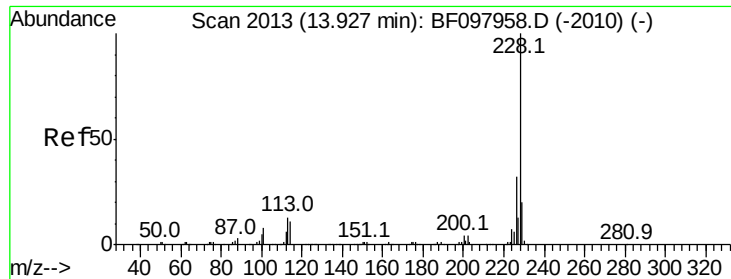
Delta R.T. -0.01 min

Lab File: BF098131.D

Acq: 30 Aug 2017 00:46

Tgt Ion:	228	Resp:	46163
Ion Ratio	Lower	Upper	
228	100		
226	31.2	22.6	33.8
229	25.0	16.3	24.5





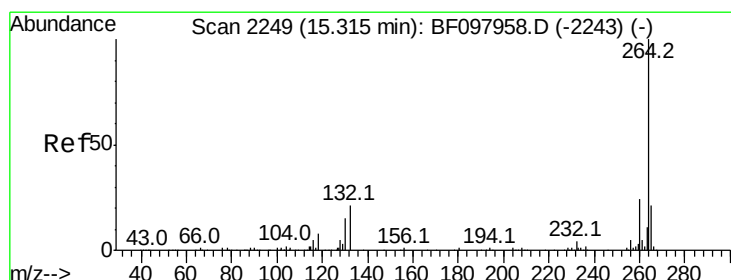
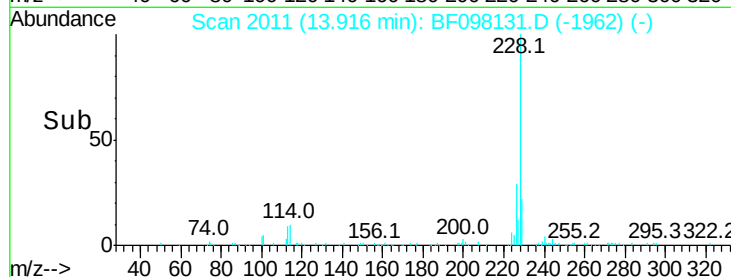
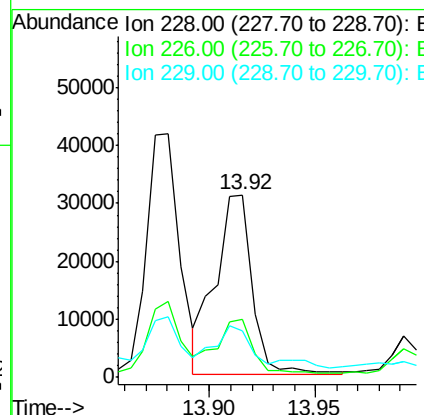
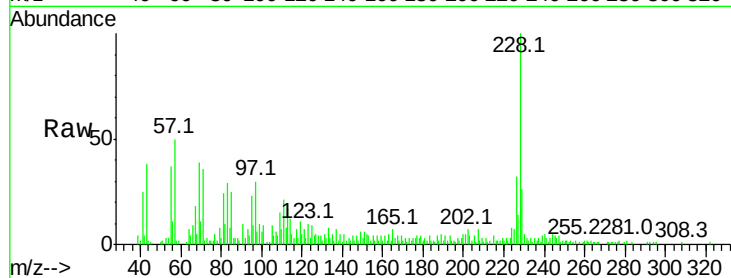
#82
Chrysene
Concen: 2.315 ng
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Instrument :
BNA_F
ClientSampled :
TP-5

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.9	37.3
229	25.8	15.8	23.6

Manual Integrations
APPROVED

Sohil
8/30/2017 6:45:12 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.31 min Scan# 2248
Delta R.T. 0.00 min
Lab File: BF098131.D
Acq: 30 Aug 2017 00:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	22.0	17.2	25.8

