

Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\
 Data File : BF098631.D
 Acq On : 19 Sep 2017 5:30
 Operator : SJ/JU
 Sample : I5265-04
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-18D810

Manual Integrations
 APPROVED

Sohil
 9/19/2017 5:32:05 PM

Quant Time: Sep 19 07:44:29 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 18 13:37:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	125286	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	442030	20.00	ng	0.00
38) Acenaphthene-d10	9.68	164	181355	20.00	ng	0.01
63) Phenanthrene-d10	11.16	188	311780	20.00	ng	0.01
75) Chrysene-d12	13.79	240	257377	20.00	ng	0.00
86) Perylene-d12	15.18	264	263373	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	867813	102.41	ng	0.01
7) Phenol-d6	6.29	99	1101937	102.42	ng	0.00
23) Nitrobenzene-d5	7.21	82	651424	82.16	ng	0.00
41) 2,4,6-Tribromophenol	10.47	330	119881	99.04	ng	0.01
44) 2-Fluorobiphenyl	9.00	172	894749	83.62	ng	0.00
78) Terphenyl-d14	12.73	244	656828	55.08	ng	0.00
Target Compounds						
31) Naphthalene	7.95	128	171757	7.860	ng	Qvalue # 95
37) 2-Methylnaphthalene	8.64	142	280366	21.181	ng	96
45) 1,1'-Biphenyl	9.10	154	47049	2.898	ng	97
49) Dimethylphthalate	9.40	163	121887	8.682	ng	# 95
51) Acenaphthene	9.71	154	46635	4.256	ng	92
57) Fluorene	10.23	166	63129	5.284	ng	# 93
70) Phenanthrene	11.19	178	281576	17.036	ng	98
71) Anthracene	11.24	178	51290m	3.022	ng	
74) Fluoranthene	12.37	202	190031	11.485	ng	97
77) Pyrene	12.59	202	165188	8.136	ng	99
80) Benzo(a)anthracene	13.77	228	92118	6.105	ng	98
82) Chrysene	13.81	228	75328	4.939	ng	96
85) Indeno(1,2,3-cd)pyrene	16.52	276	29308	2.739	ng	# 89
87) Benzo(b)fluoranthene	14.79	252	103449m	6.247	ng	
89) Benzo(a)pyrene	15.13	252	64834	4.395	ng	97
91) Benzo(g,h,i)perylene	16.92	276	28360	2.627	ng	# 88

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

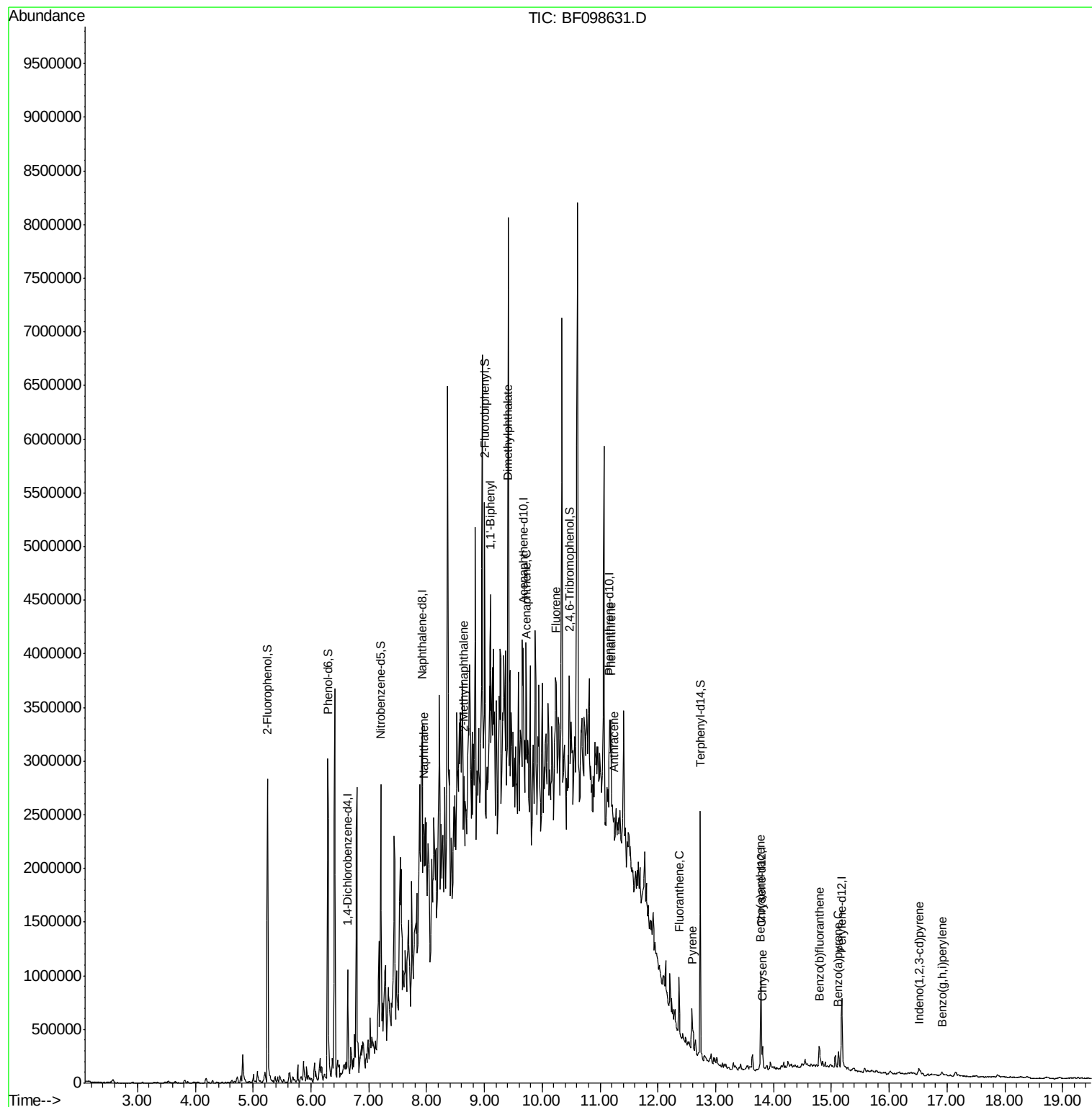
Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\
Data File : BF098631.D
Acq On : 19 Sep 2017 5:30
Operator : SJ/JU
Sample : I5265-04
Misc :
ALS Vial : 35 Sample Multiplier: 1

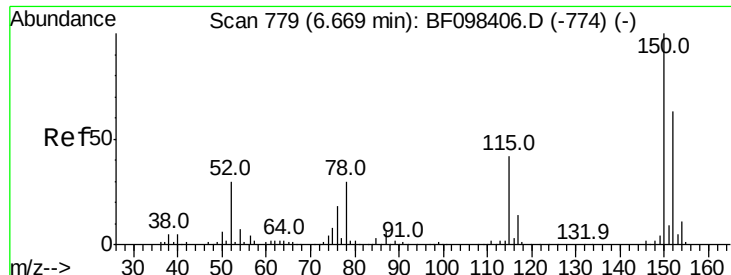
Instrument :
BNA_F
ClientSampleId :
TP-18D810

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM

Quant Time: Sep 19 07:44:29 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 18 13:37:24 2017
Response via : Initial Calibration





#1

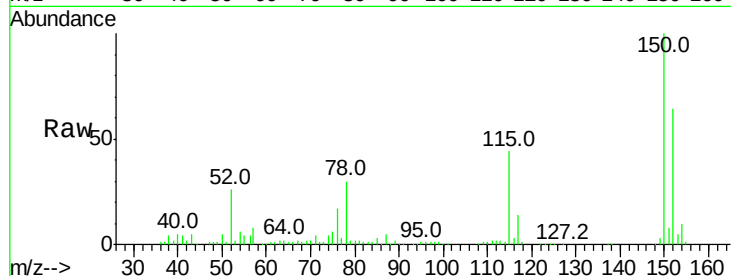
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.63 min Scan# 773
Delta R.T. -0.00 min
Lab File: BF098631.D
Acq: 19 Sep 2017 5:30

Instrument :
BNA_F
ClientSampleId :
TP-18D810

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	126.2	189.2
115	68.4	52.2	78.2

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM

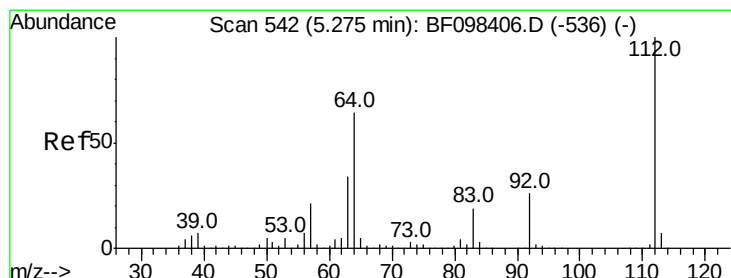
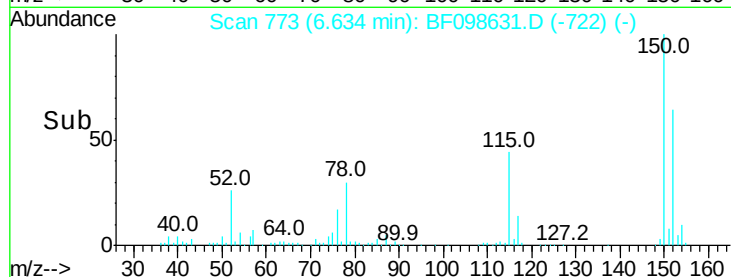
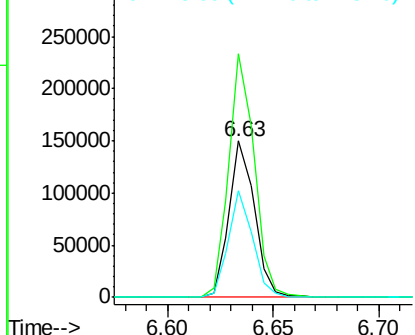


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

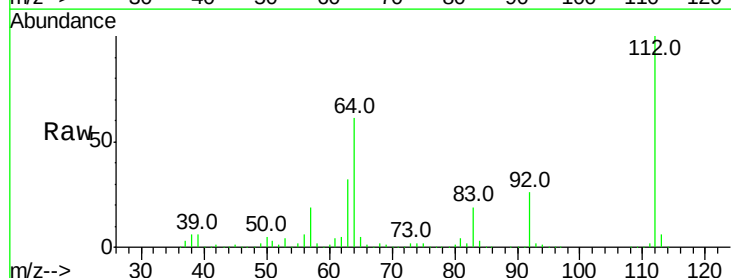
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 102.412 ng
RT: 5.25 min Scan# 538
Delta R.T. 0.01 min
Lab File: BF098631.D
Acq: 19 Sep 2017 5:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.2	46.0	69.0
63	32.2	23.4	35.0

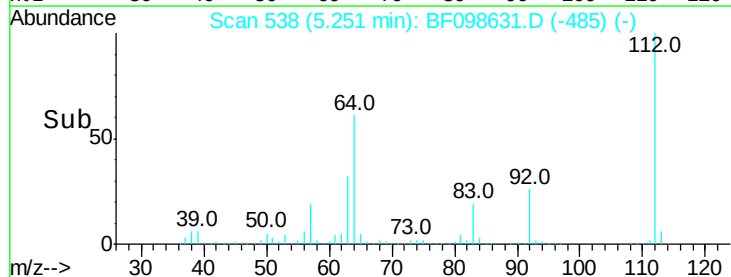
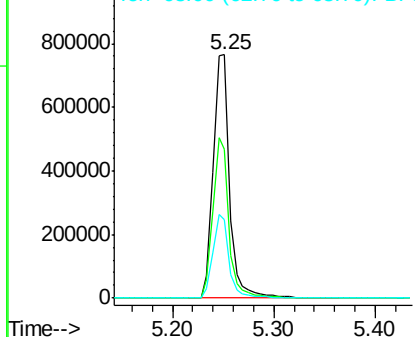


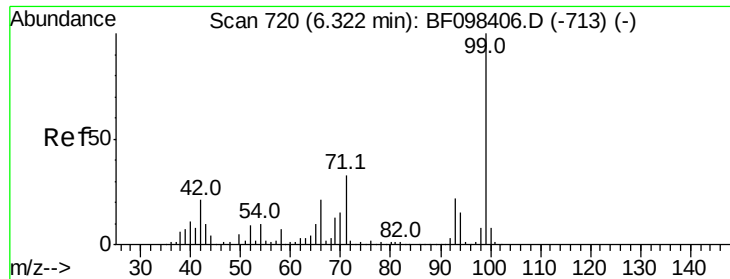
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 102.422 ng

RT: 6.29 min Scan# 715

Delta R.T. -0.00 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Instrument :

BNA_F

ClientSampled :

TP-18D810

Tot Ion: 99 Resp: 1101937

Ion Ratio Lower Upper

99 100

42 19.7 13.5 20.3

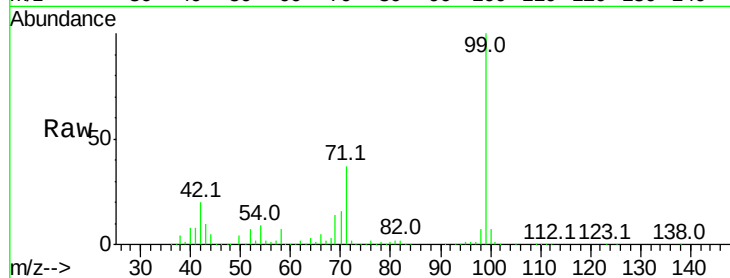
71 36.9 24.5 36.7#

Manual Integrations

APPROVED

Sohil

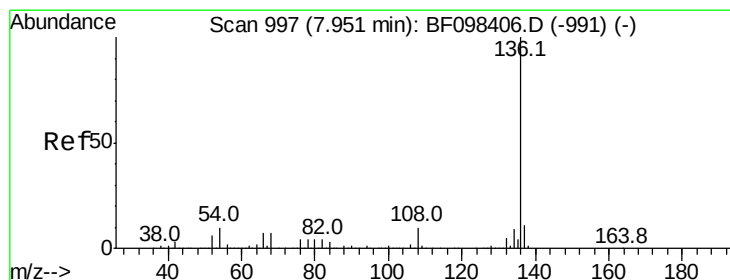
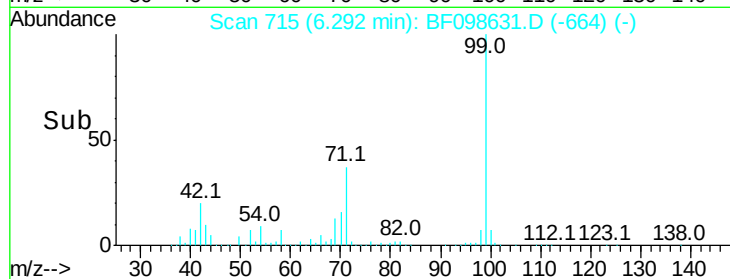
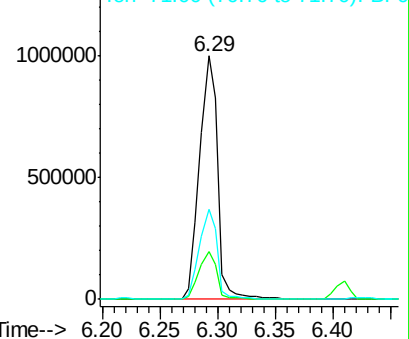
9/19/2017 5:32:05 PM



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.92 min Scan# 992

Delta R.T. -0.00 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Tgt Ion: 136 Resp: 442030

Ion Ratio Lower Upper

136 100

137 11.8 8.5 12.7

54 12.8 4.9 7.3#

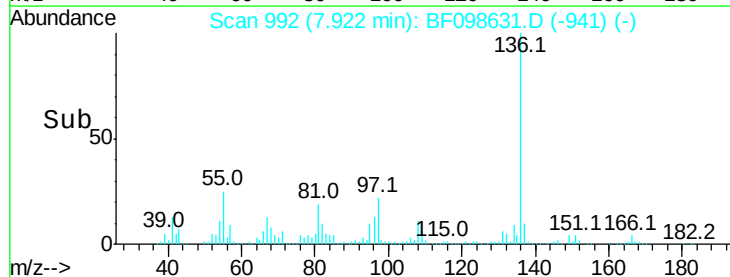
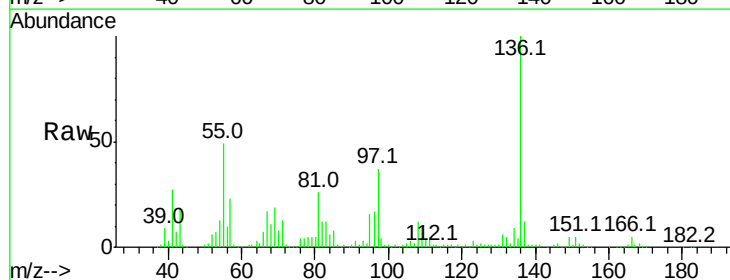
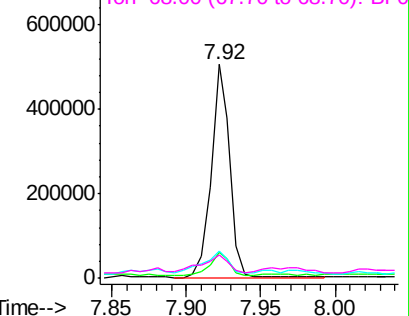
68 10.5 4.1 6.1#

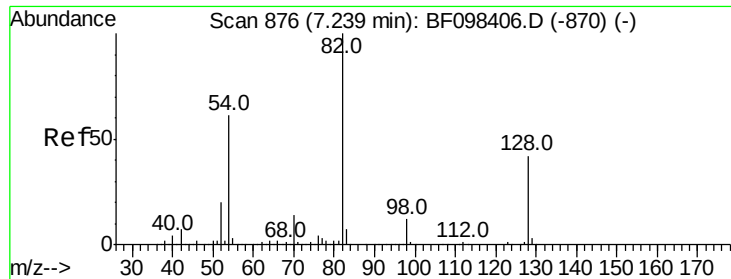
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 82.159 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.00 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Instrument :

BNA_F

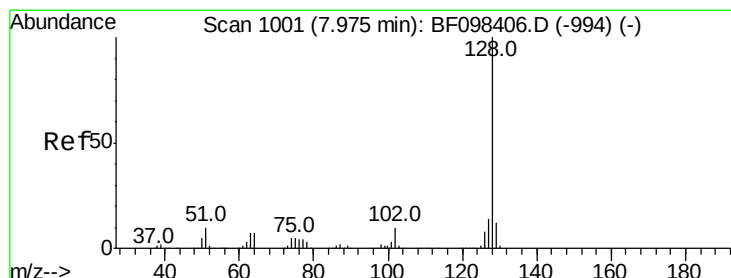
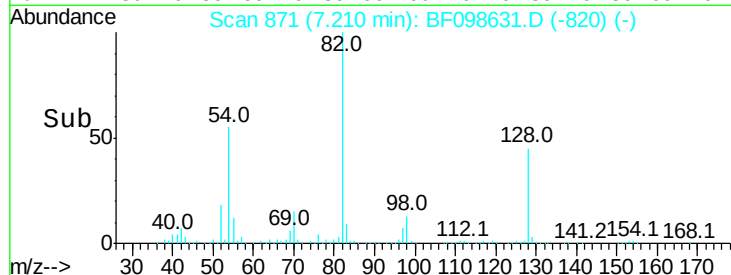
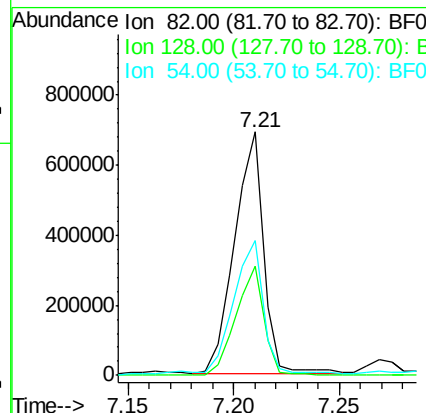
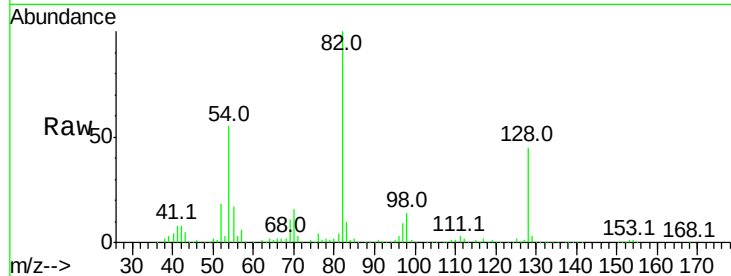
ClientSampled :

TP-18D810

Tot Ion:	82	Resp:	651424
Ion Ratio	Lower	Upper	
82	100		
128	44.7	34.0	51.0
54	55.3	42.2	63.2

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM



#31

Naphthalene

Concen: 7.860 ng

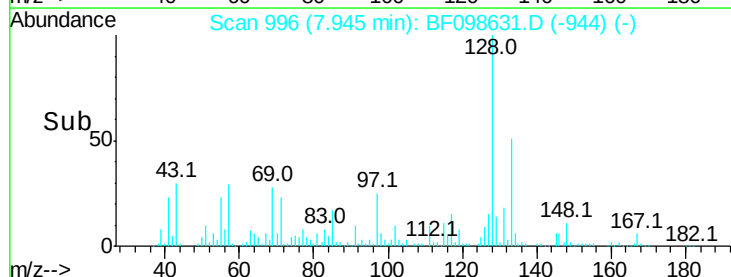
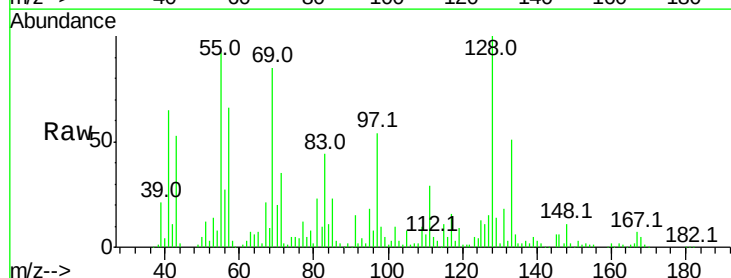
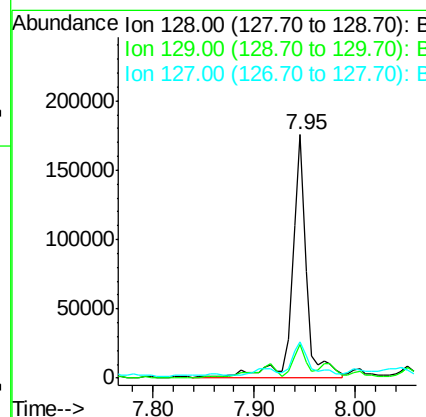
RT: 7.95 min Scan# 996

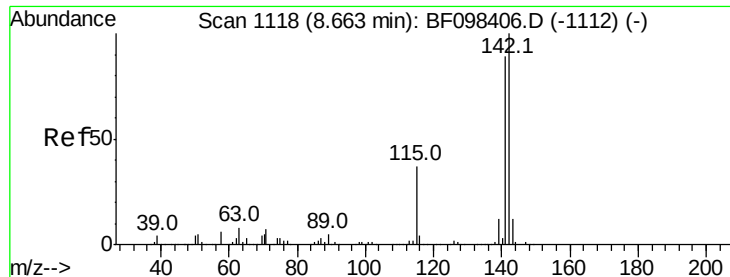
Delta R.T. 0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Tgt Ion:	128	Resp:	171757
Ion Ratio	Lower	Upper	
128	100		
129	13.6	9.0	13.6#
127	15.1	10.8	16.2





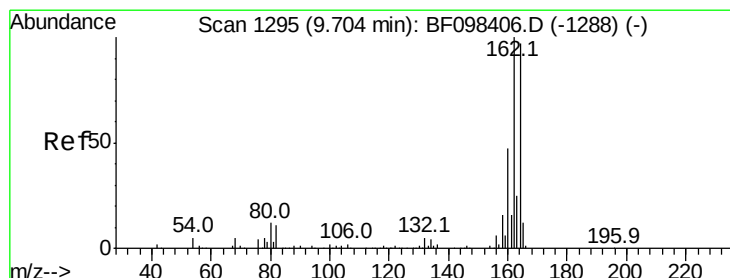
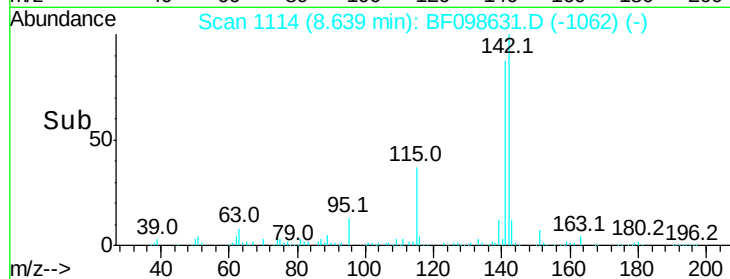
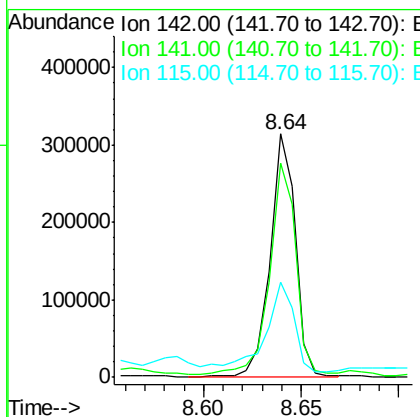
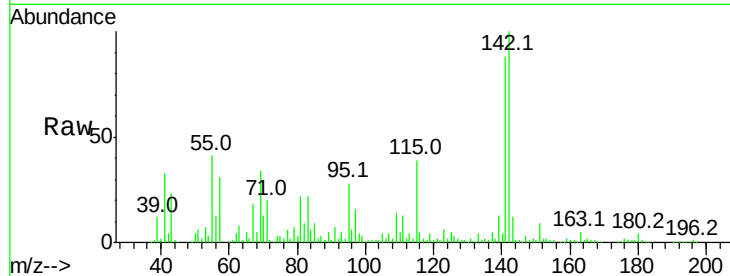
#37
 2-Methylnaphthalene
 Concen: 21.181 ng
 RT: 8.64 min Scan# 1114
 Delta R.T. 0.01 min
 Lab File: BF098631.D
 Acq: 19 Sep 2017 5:30

Instrument :
 BNA_F
 ClientSampleId :
 TP-18D810

Tot Ion	Ratio	Resp	Lower	Upper
142	100	280366		
141	87.8	71.3	106.9	
115	39.2	27.1	40.7	

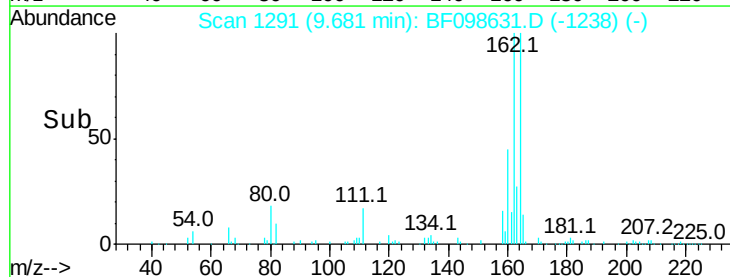
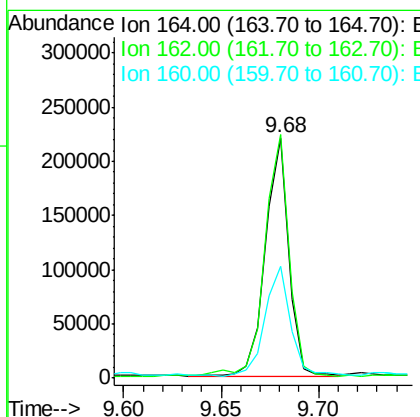
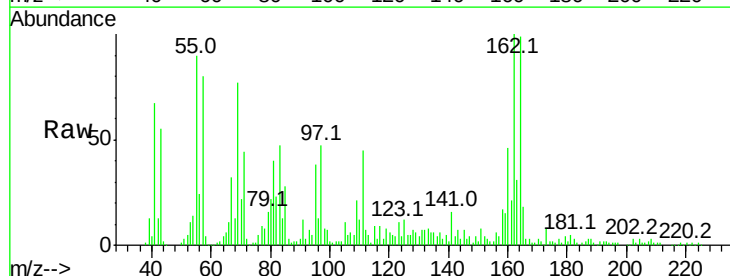
Manual Integrations
 APPROVED

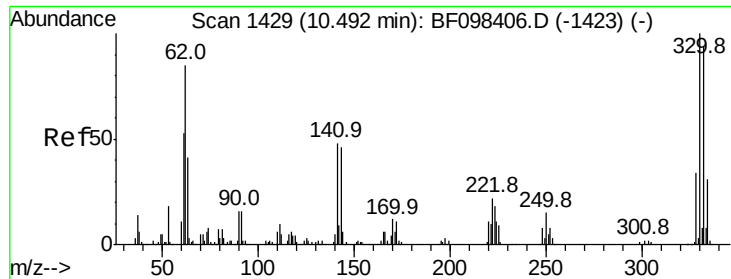
Sohil
 9/19/2017 5:32:05 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.68 min Scan# 1291
 Delta R.T. 0.01 min
 Lab File: BF098631.D
 Acq: 19 Sep 2017 5:30

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	181355		
162	101.4	82.6	123.8	
160	46.5	36.2	54.2	





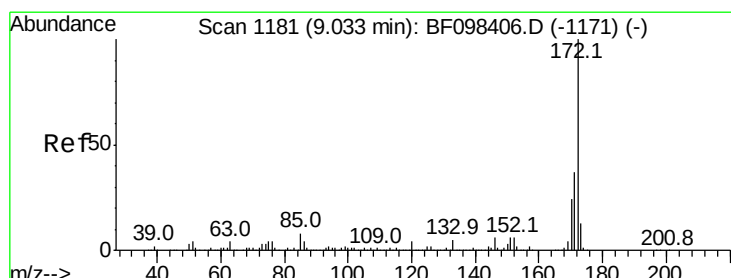
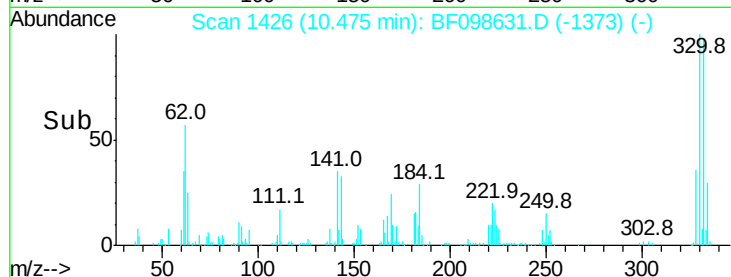
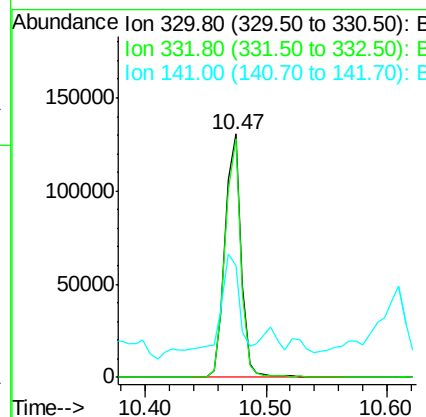
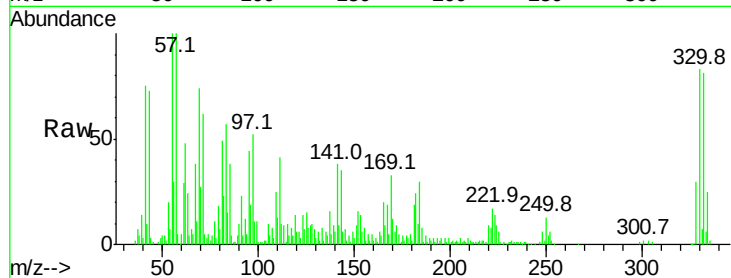
#41
 2,4,6-Tribromophenol
 Concen: 99.043 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. 0.01 min
 Lab File: BF098631.D
 Acq: 19 Sep 2017 5:30

Instrument :
 BNA_F
 ClientSampleId :
 TP-18D810

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.2	76.6	115.0	
141	40.7	31.4	47.2	

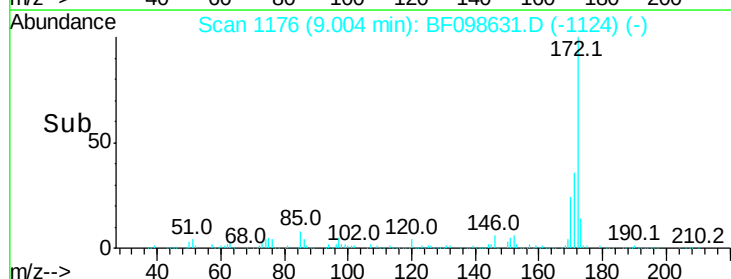
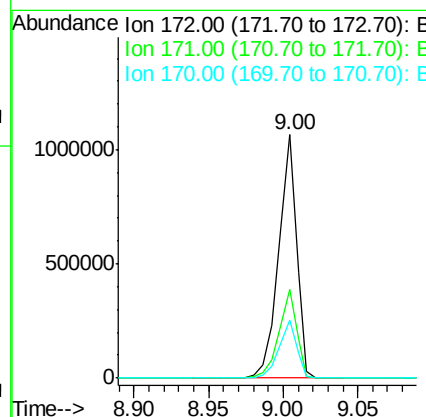
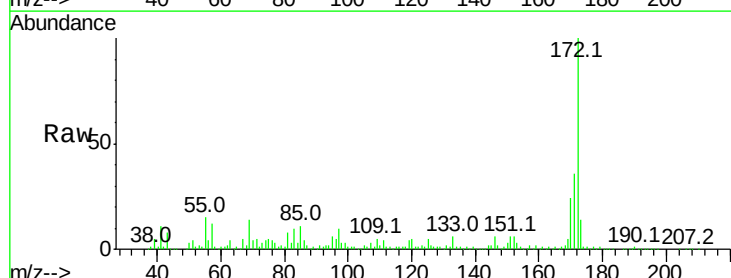
Manual Integrations
 APPROVED

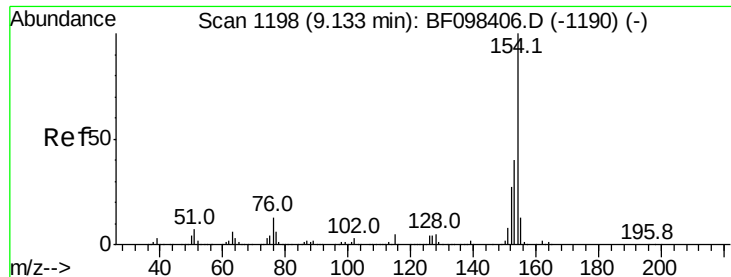
Sohil
 9/19/2017 5:32:05 PM



#44
 2-Fluorobiphenyl
 Concen: 83.622 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. 0.01 min
 Lab File: BF098631.D
 Acq: 19 Sep 2017 5:30

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.3	29.6	44.4	
170	24.0	19.8	29.8	





#45

1,1'-Biphenyl

Concen: 2.898 ng

RT: 9.10 min Scan# 1193

Delta R.T. 0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Instrument :

BNA_F

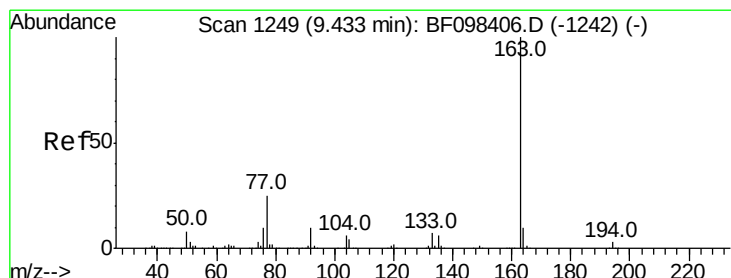
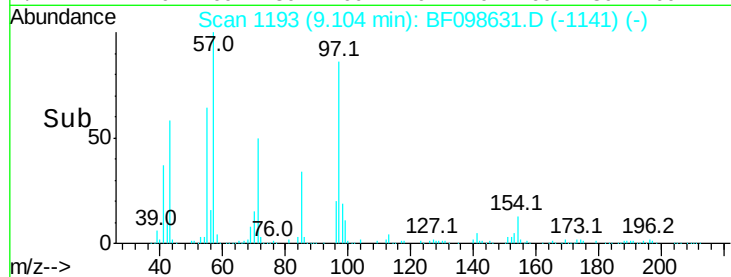
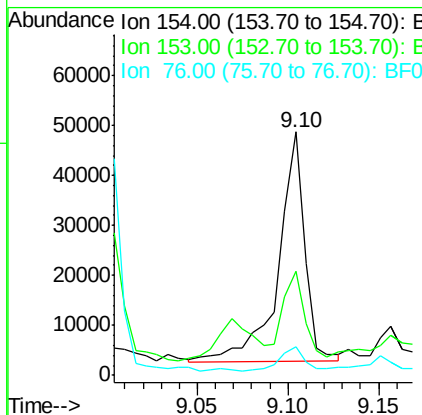
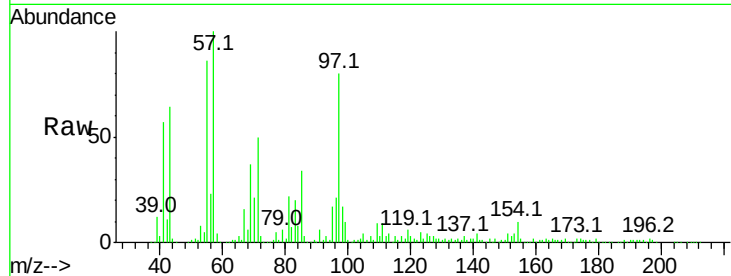
ClientSampleId :

TP-18D810

Tot Ion:	154	Resp:	47049
Ion Ratio	Lower	Upper	
154	100		
153	42.6	21.2	61.2
76	11.8	0.0	29.9

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM



#49

Dimethylphthalate

Concen: 8.682 ng

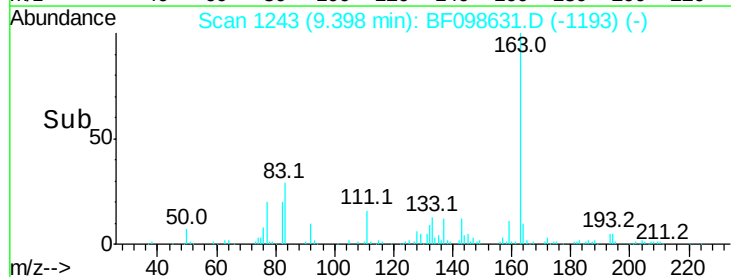
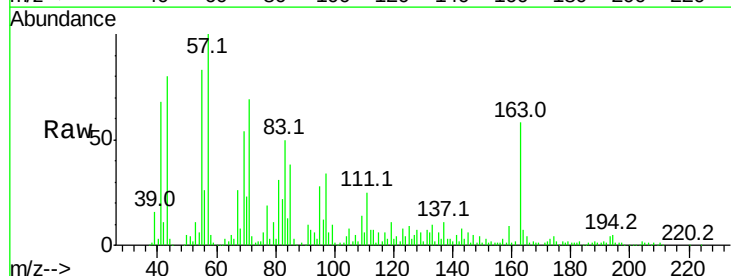
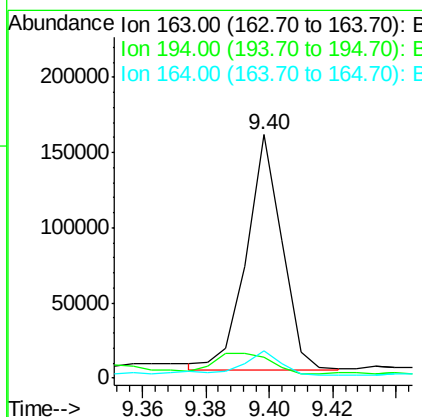
RT: 9.40 min Scan# 1243

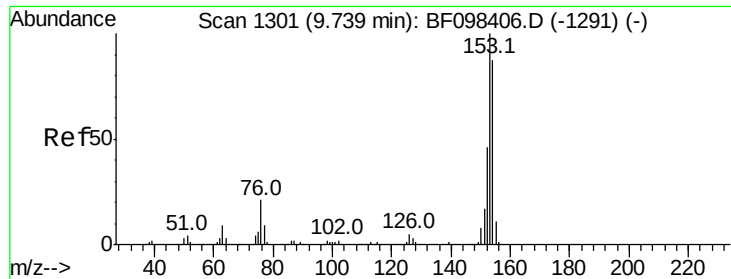
Delta R.T. -0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Tgt Ion:	163	Resp:	121887
Ion Ratio	Lower	Upper	
163	100		
194	8.4	2.6	4.0#
164	11.3	8.4	12.6





#51

Acenaphthene

Concen: 4.256 ng

RT: 9.71 min Scan# 1296

Delta R.T. 0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Instrument :

BNA_F

ClientSampleId :

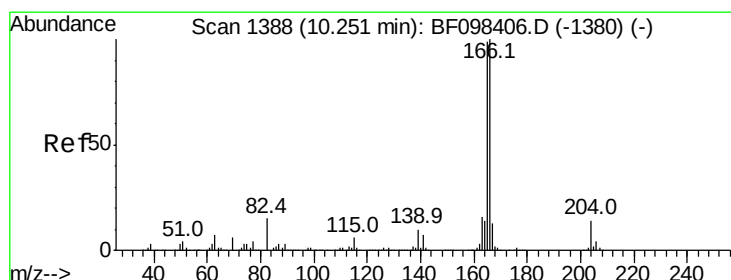
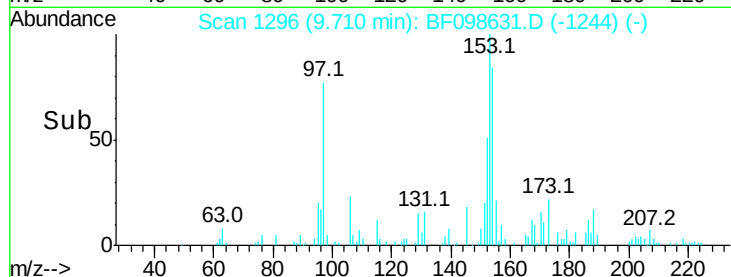
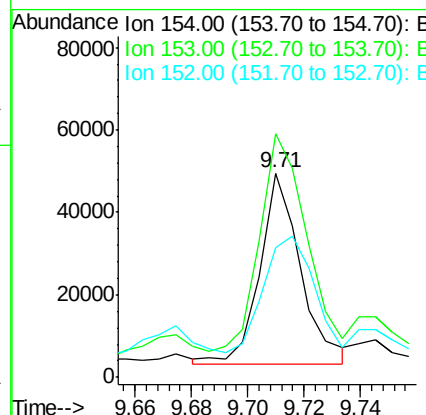
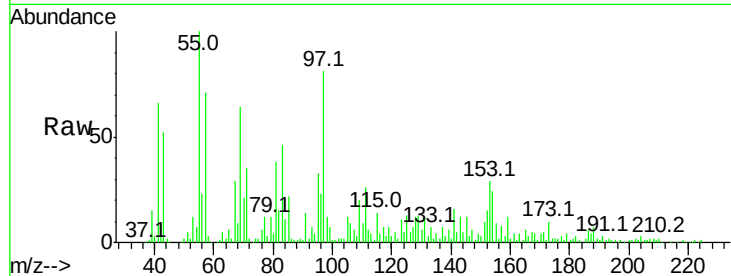
TP-18D810

Tot Ion	Ratio	Lower	Upper
154	100		
153	119.4	90.5	135.7
152	63.4	43.6	65.4

Manual Integrations
APPROVED

Sohil

9/19/2017 5:32:05 PM



#57

Fluorene

Concen: 5.284 ng

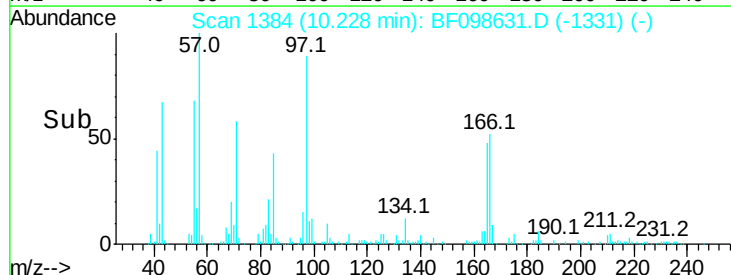
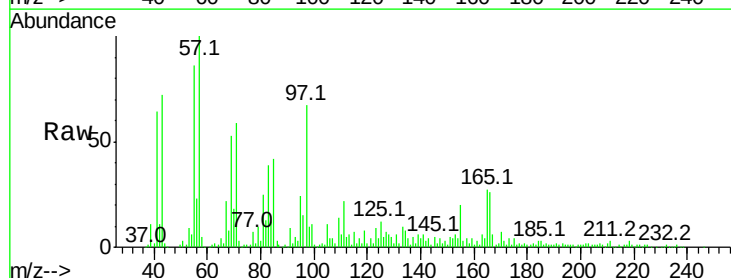
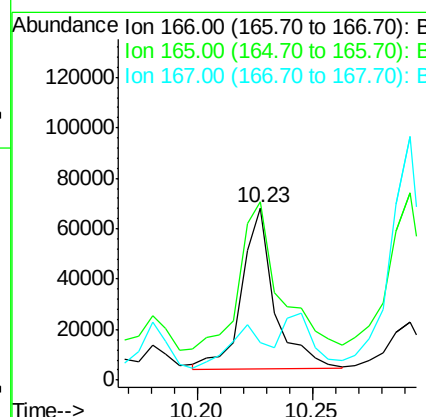
RT: 10.23 min Scan# 1384

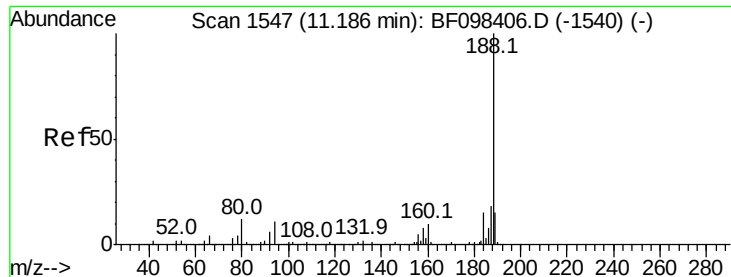
Delta R.T. 0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.8	78.8	118.2
167	21.9	10.6	16.0#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.16 min Scan# 1543

Delta R.T. 0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Instrument :

BNA_F

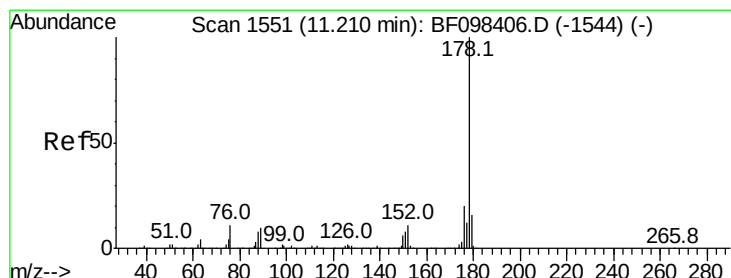
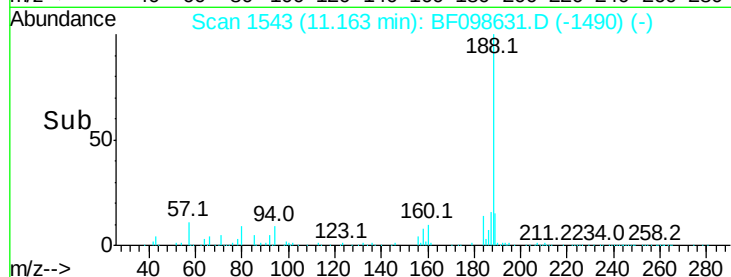
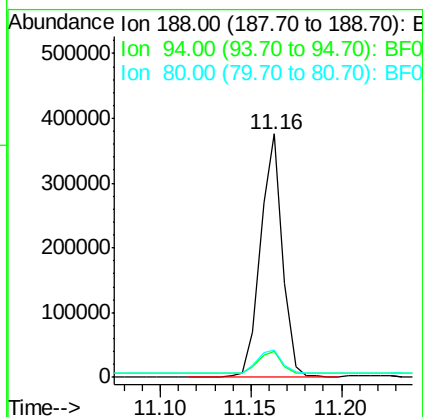
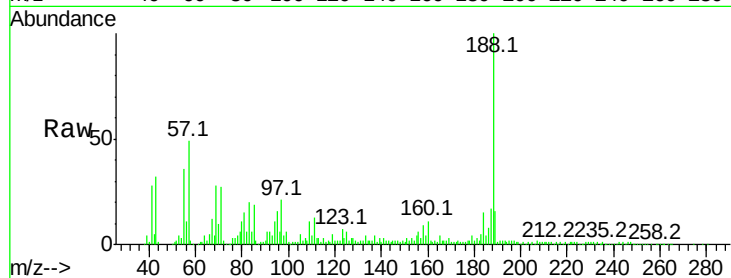
ClientSampled :

TP-18D810

Tot Ion:	188	Resp:	311780
Ion Ratio	Lower	Upper	
188	100		
94	10.7	9.4	14.2
80	11.4	10.2	15.2

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM



#70

Phenanthrene

Concen: 17.036 ng

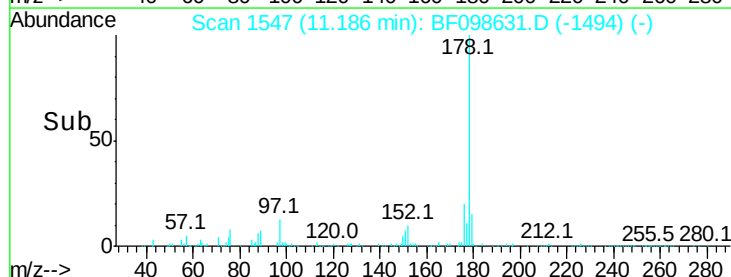
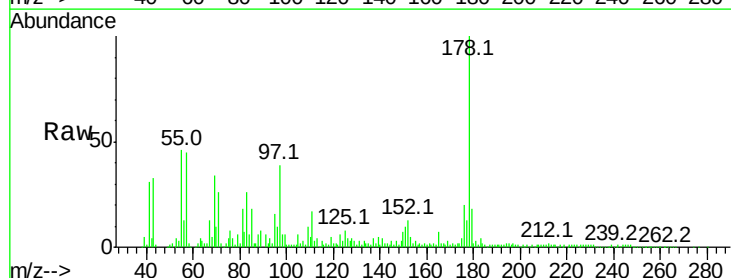
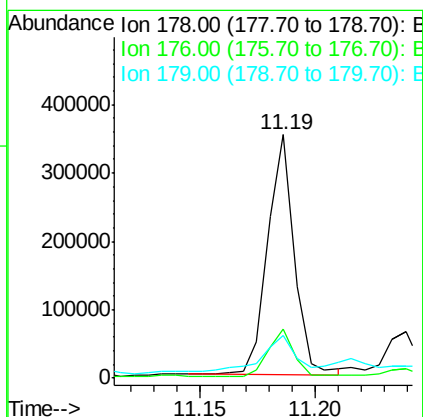
RT: 11.19 min Scan# 1547

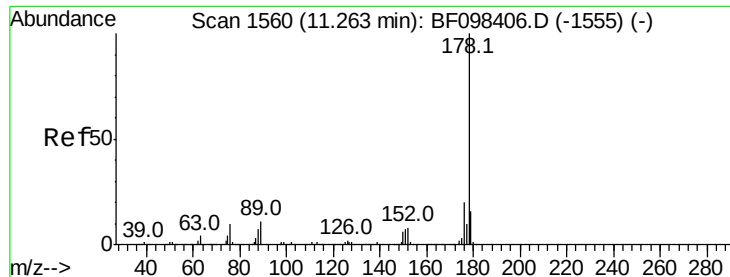
Delta R.T. 0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Tgt Ion:	178	Resp:	281576
Ion Ratio	Lower	Upper	
178	100		
176	20.1	16.2	24.4
179	17.8	12.6	19.0





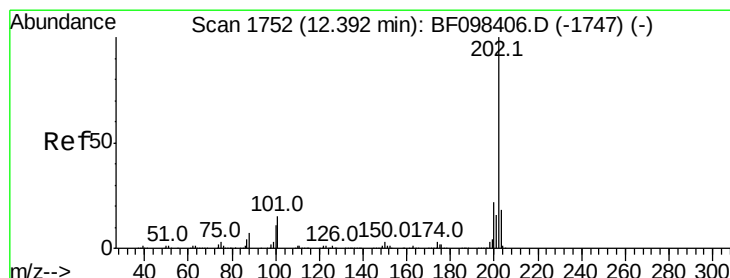
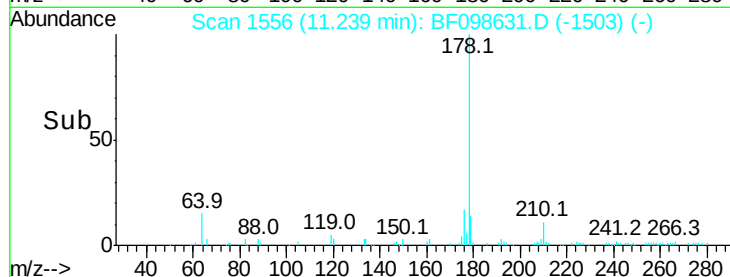
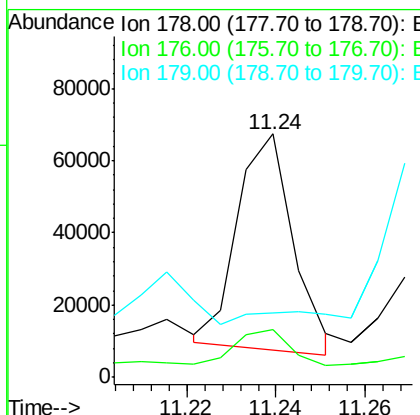
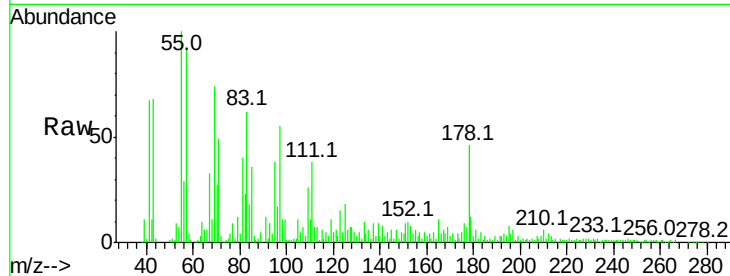
#71
 Anthracene
 Concen: 3.022 ng/mL
 RT: 11.24 min Scan# 1556
 Delta R.T. 0.01 min
 Lab File: BF098631.D
 Acq: 19 Sep 2017 5:30

Instrument :
 BNA_F
 ClientSampleID :
 TP-18D810

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	26.5	12.7	19.1

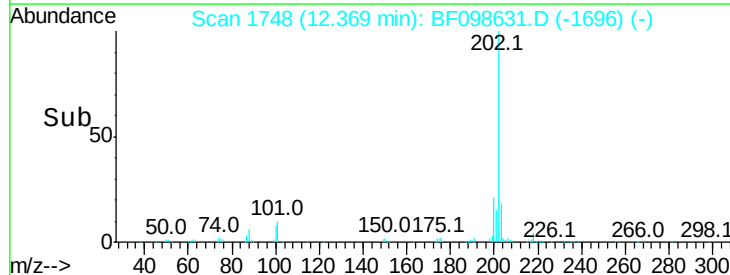
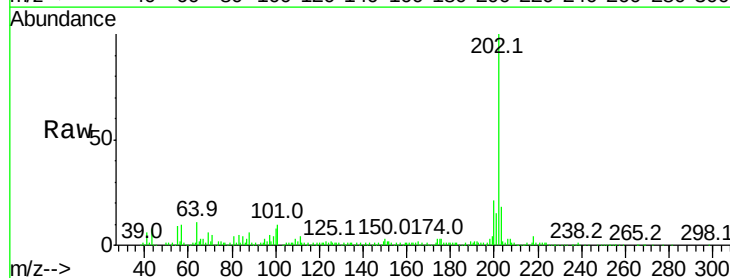
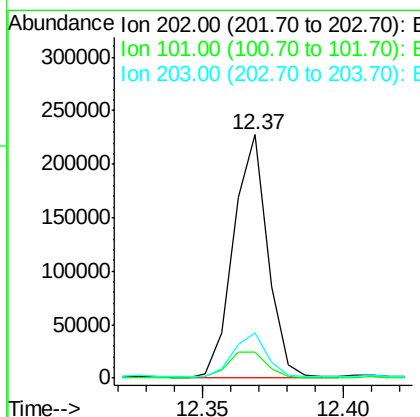
Manual Integrations
 APPROVED

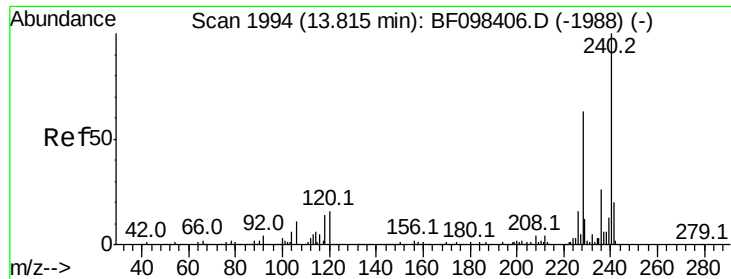
Sohil
 9/19/2017 5:32:05 PM



#74
 Fluoranthene
 Concen: 11.485 ng/mL
 RT: 12.37 min Scan# 1748
 Delta R.T. 0.01 min
 Lab File: BF098631.D
 Acq: 19 Sep 2017 5:30

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	33.2
203	18.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.79 min Scan# 1989

Delta R.T. -0.00 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Instrument :

BNA_F

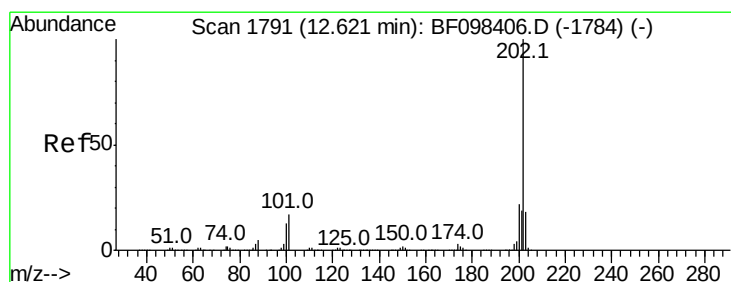
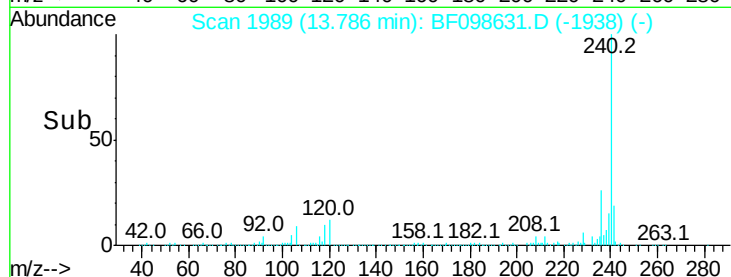
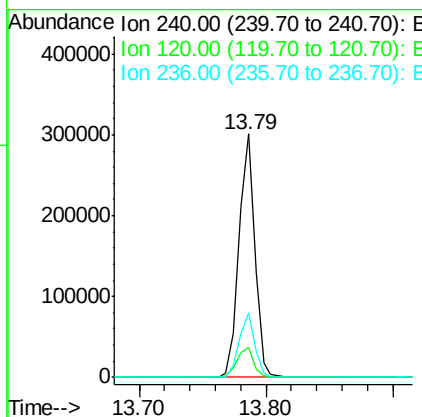
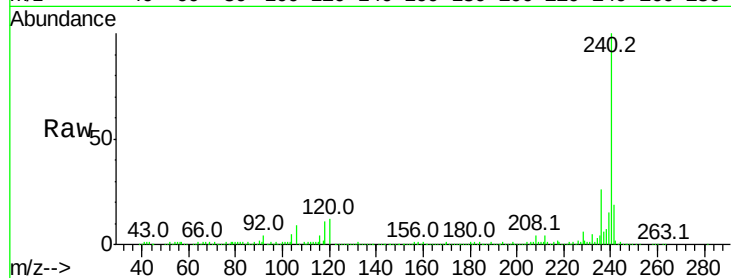
ClientSampleId :

TP-18D810

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	12.3	5.8	8.8#	
236	26.4	20.5	30.7	

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM



#77

Pyrene

Concen: 8.136 ng

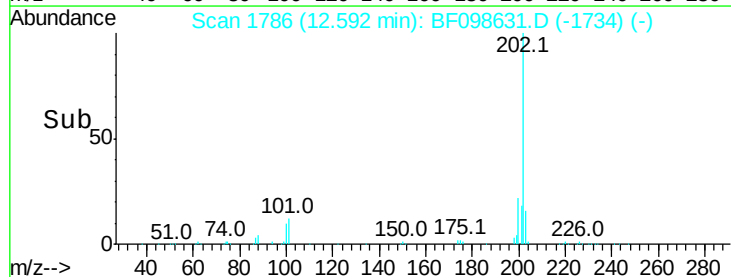
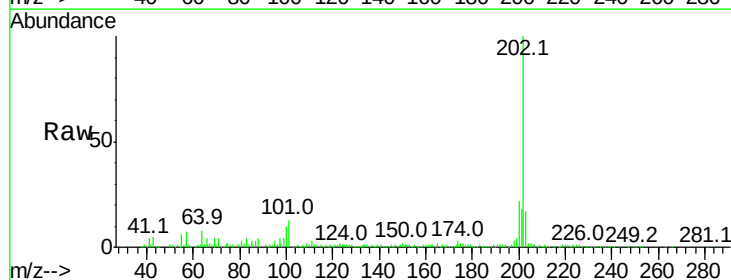
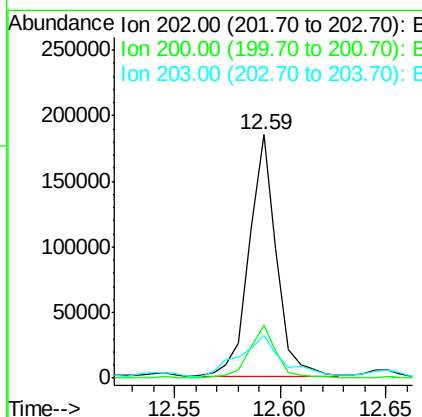
RT: 12.59 min Scan# 1786

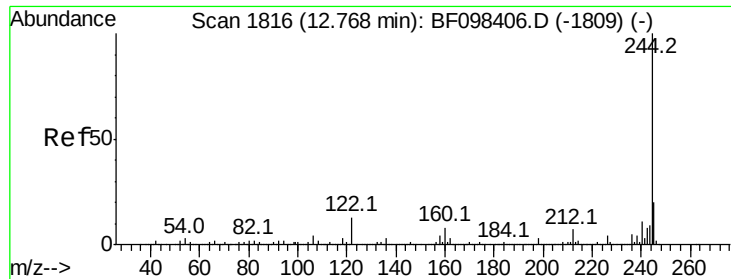
Delta R.T. 0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.6	17.6	26.4	
203	17.4	14.4	21.6	





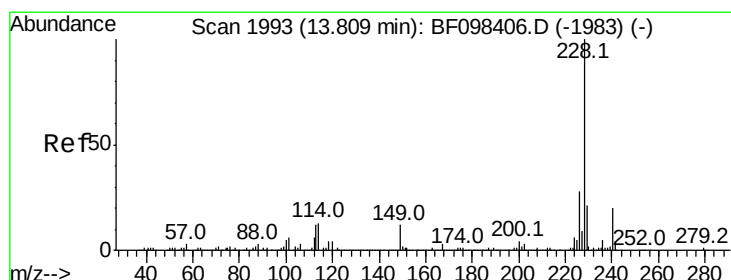
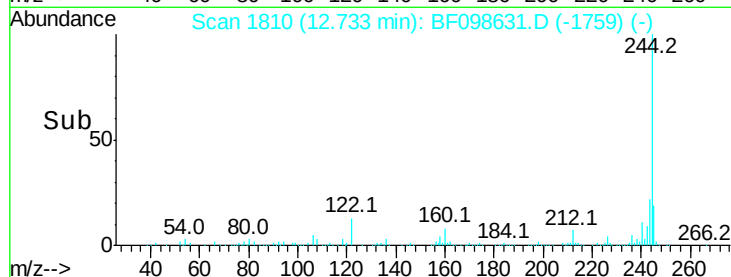
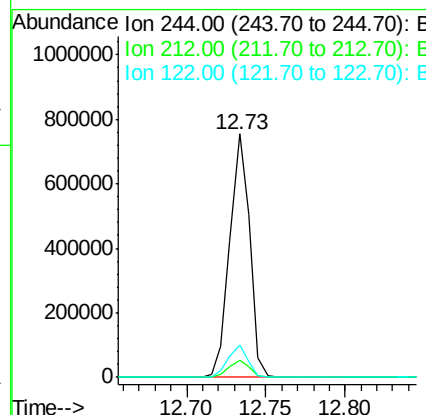
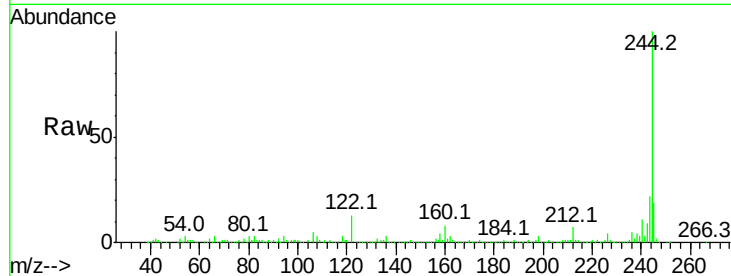
#78
 Terphenyl-d14
 Concen: 55.084 ng
 RT: 12.73 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: BF098631.D
 Acq: 19 Sep 2017 5:30

Instrument :
 BNA_F
 ClientSampled :
 TP-18D810

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	13.4	10.3	15.5

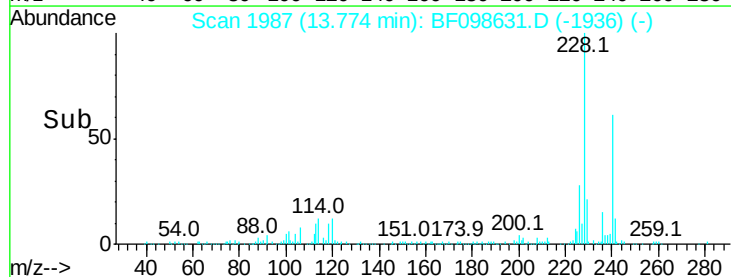
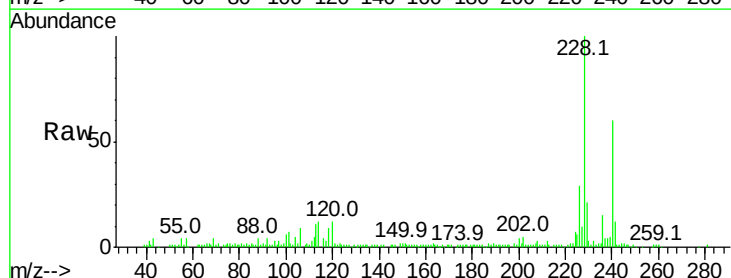
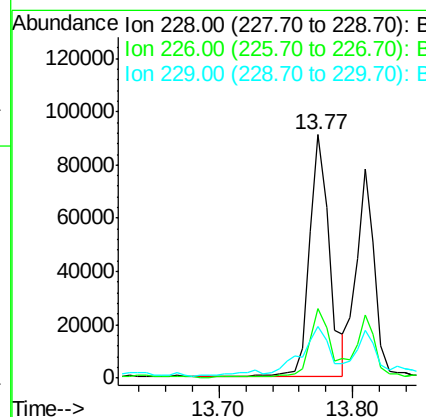
Manual Integrations
 APPROVED

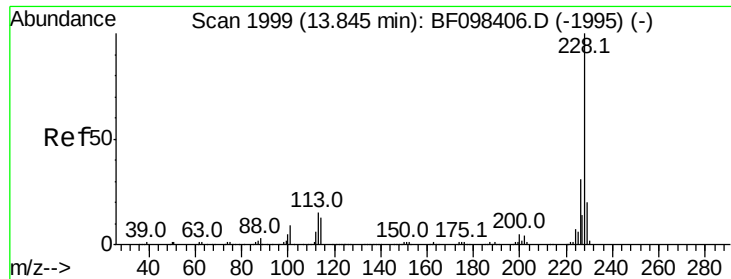
Sohil
 9/19/2017 5:32:05 PM



#80
 Benzo(a)anthracene
 Concen: 6.105 ng
 RT: 13.77 min Scan# 1987
 Delta R.T. -0.00 min
 Lab File: BF098631.D
 Acq: 19 Sep 2017 5:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	33.8
229	21.4	16.3	24.5





#82

Chrysene

Concen: 4.939 ng

RT: 13.81 min Scan# 1993

Delta R.T. -0.01 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Instrument :

BNA_F

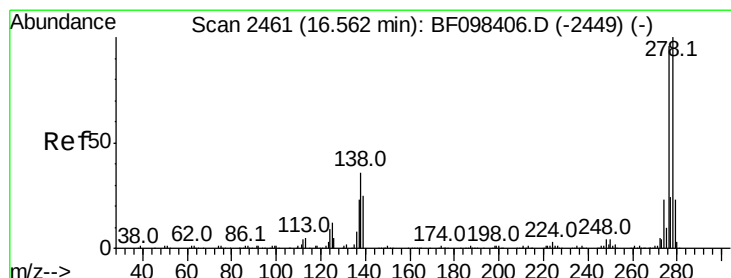
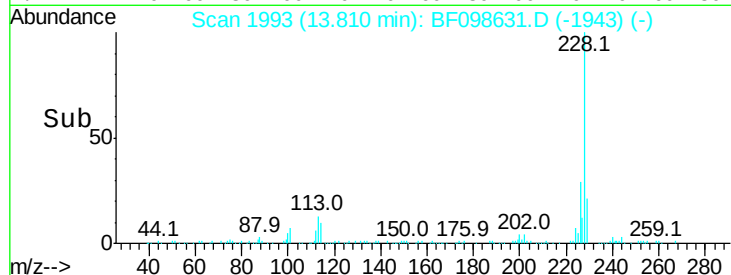
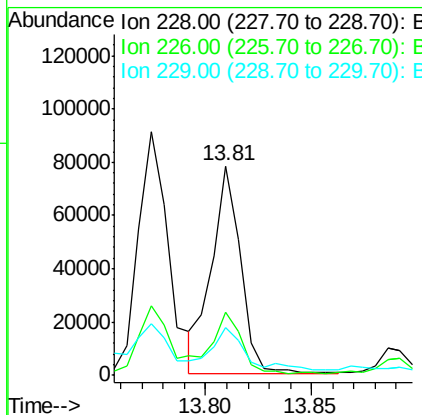
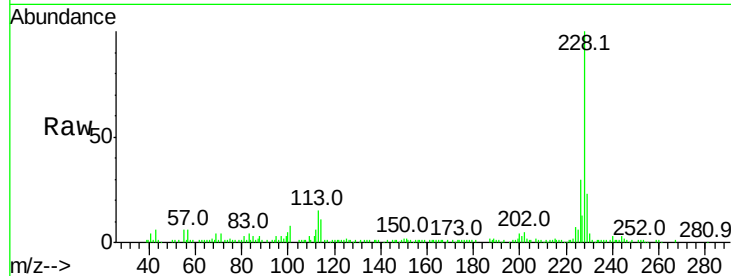
ClientSampleId :

TP-18D810

Tot Ion:	228	Resp:	75328
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.9	37.3
229	22.8	15.8	23.6

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.739 ng

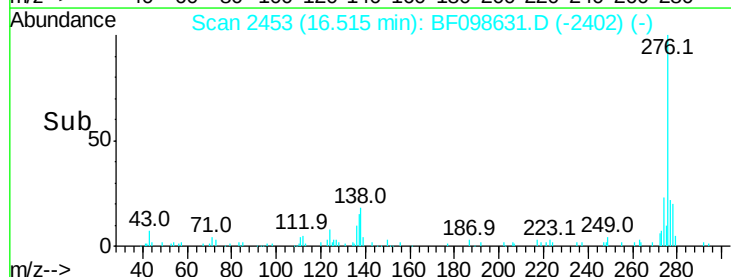
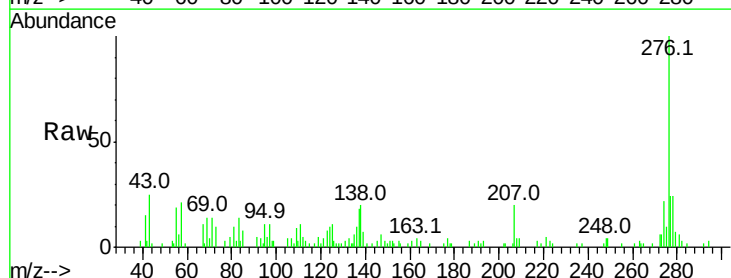
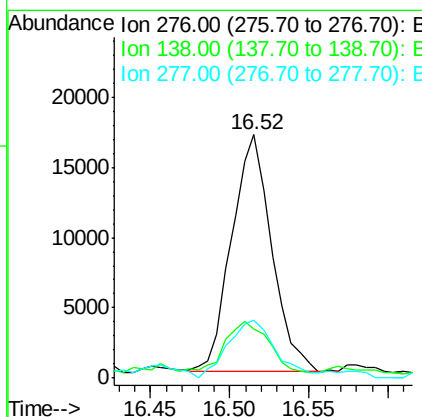
RT: 16.52 min Scan# 2453

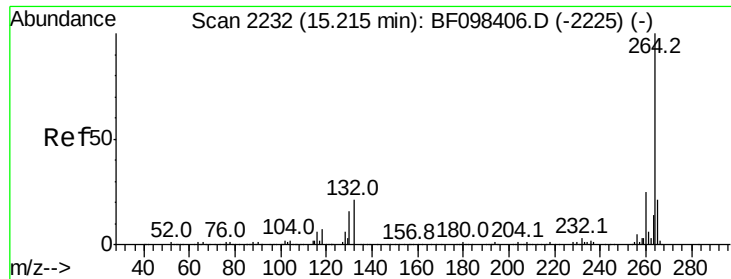
Delta R.T. -0.00 min

Lab File: BF098631.D

Acq: 19 Sep 2017 5:30

Tgt Ion:	276	Resp:	29308
Ion Ratio	Lower	Upper	
276	100		
138	26.9	27.8	41.6#
277	29.4	20.2	30.4





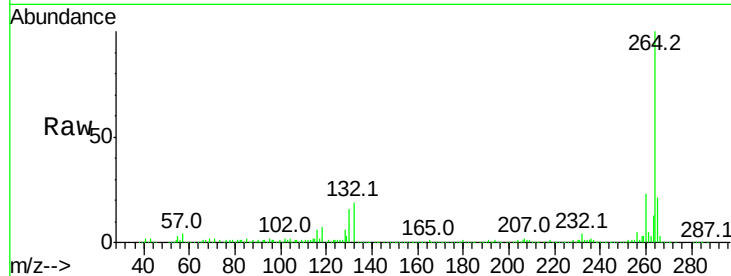
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.18 min Scan# 2226
Delta R.T. 0.01 min
Lab File: BF098631.D
Acq: 19 Sep 2017 5:30

Instrument :
BNA_F
ClientSampleId :
TP-18D810

Tot Ion	Ratio	Resp	Lower	Upper
264	100	263373		
260	23.3		19.5	29.3
265	21.5		17.2	25.8

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM

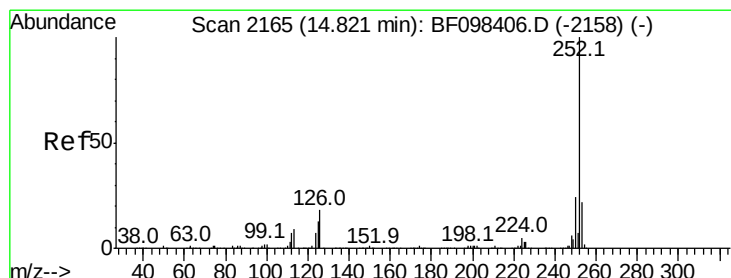
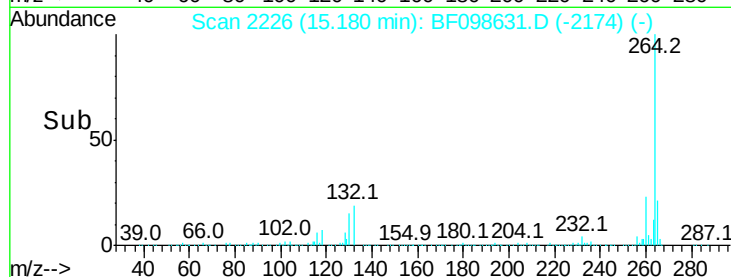
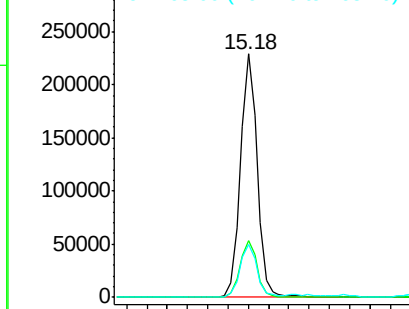


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 6.247 ng m
RT: 14.79 min Scan# 2160
Delta R.T. -0.00 min
Lab File: BF098631.D
Acq: 19 Sep 2017 5:30

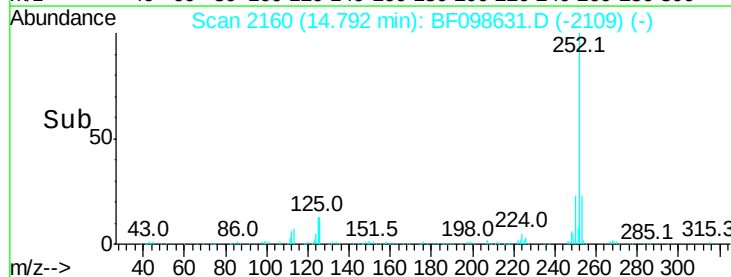
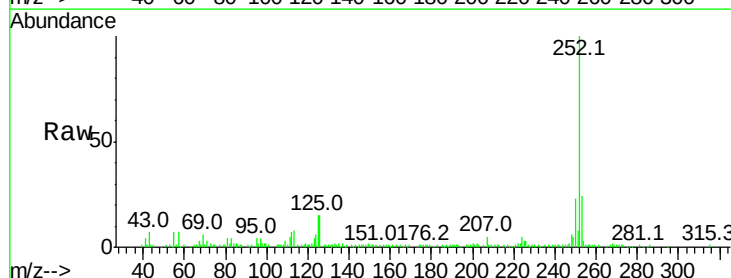
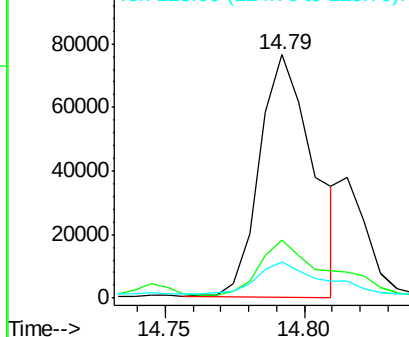
Tgt Ion	Ratio	Resp	Lower	Upper
252	100	103449		
253	23.7		18.1	27.1
125	14.9		9.8	14.8#

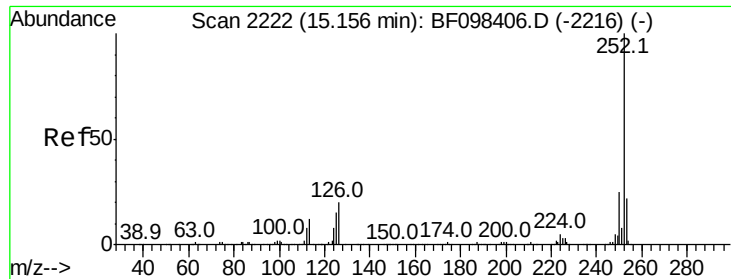
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





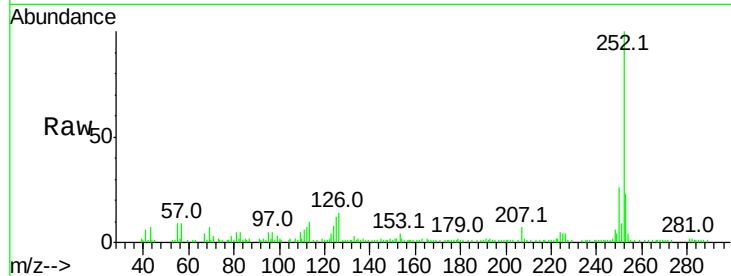
#89
Benzo(a)pyrene
Concen: 4.395 ng
RT: 15.13 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF098631.D
Acq: 19 Sep 2017 5:30

Instrument :
BNA_F
ClientSampled :
TP-18D810

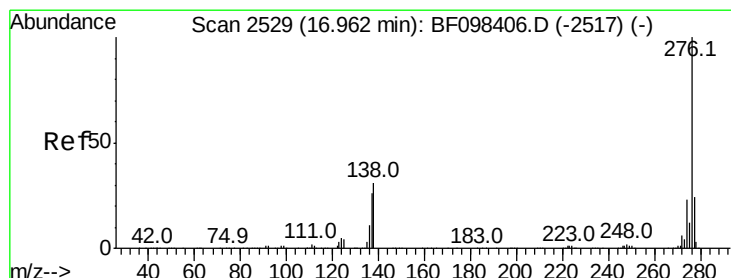
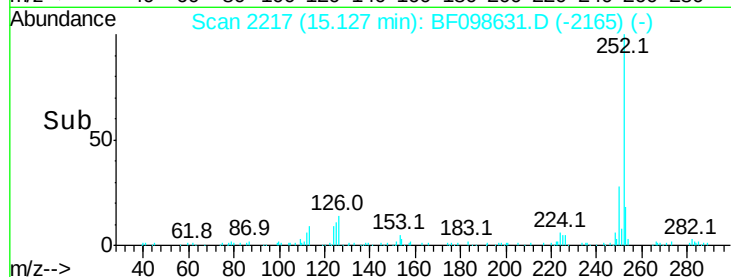
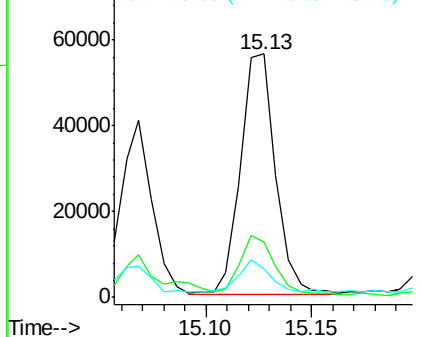
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	11.6	11.0	16.4

Manual Integrations
APPROVED

Sohil
9/19/2017 5:32:05 PM



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



#91
Benzo(g,h,i)perylene
Concen: 2.627 ng
RT: 16.92 min Scan# 2522
Delta R.T. 0.01 min
Lab File: BF098631.D
Acq: 19 Sep 2017 5:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.6	28.0
138	22.6	25.4	38.0

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

