

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
 Data File : BF097251.D
 Acq On : 2 Aug 2017 3:47
 Operator : SJ/JU
 Sample : I4456-05DL 2X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-12-SS-4DL

Manual Integrations
 APPROVED

Sohil
 8/2/2017 7:15:34 PM

Quant Time: Aug 02 06:52:04 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.46	152	118029	20.00	ng	-0.04
21) Naphthalene-d8	7.75	136	410816	20.00	ng	-0.04
38) Acenaphthene-d10	9.49	164	157279	20.00	ng	-0.05
63) Phenanthrene-d10	10.96	188	233624	20.00	ng	-0.04
75) Chrysene-d12	13.59	240	217806	20.00	ng	-0.04
86) Perylene-d12	14.93	264	178278	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	406707	51.95	ng	-0.03
7) Phenol-d6	6.13	99	454159	50.81	ng	-0.04
23) Nitrobenzene-d5	7.03	82	266571	38.07	ng	-0.05
41) 2,4,6-Tribromophenol	10.28	330	58674	47.22	ng	-0.04
44) 2-Fluorobiphenyl	8.82	172	353176	38.11	ng	-0.05
78) Terphenyl-d14	12.54	244	223476	20.92	ng	-0.04
Target Compounds						Qvalue
49) Dimethylphthalate	9.22	163	80604	6.749	ng	98
51) Acenaphthene	9.52	154	46347	5.185	ng	97
54) Dibenzofuran	9.70	168	24819	2.085	ng	100
57) Fluorene	10.03	166	37275	4.166	ng	99
70) Phenanthrene	10.99	178	401515	32.076	ng	98
71) Anthracene	11.04	178	105739	8.247	ng	100
72) Carbazole	11.20	167	64488	5.114	ng	98
74) Fluoranthene	12.17	202	582399	47.492	ng	98
77) Pyrene	12.39	202	457448	25.655	ng	99
80) Benzo(a)anthracene	13.58	228	252870	17.943	ng	98
82) Chrysene	13.62	228	243411	17.688	ng	98
85) Indeno(1,2,3-cd)pyrene	16.14	276	73423	6.222	ng	97
87) Benzo(b)fluoranthene	14.58	252	251109m	23.432	ng	
88) Benzo(k)fluoranthene	14.60	252	98855m	9.680	ng	
89) Benzo(a)pyrene	14.88	252	166074	16.932	ng	96
90) Dibenzo(a,h)anthracene	16.14	278	18392m	2.287	ng	
91) Benzo(g,h,i)perylene	16.50	276	62218	7.376	ng	98

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

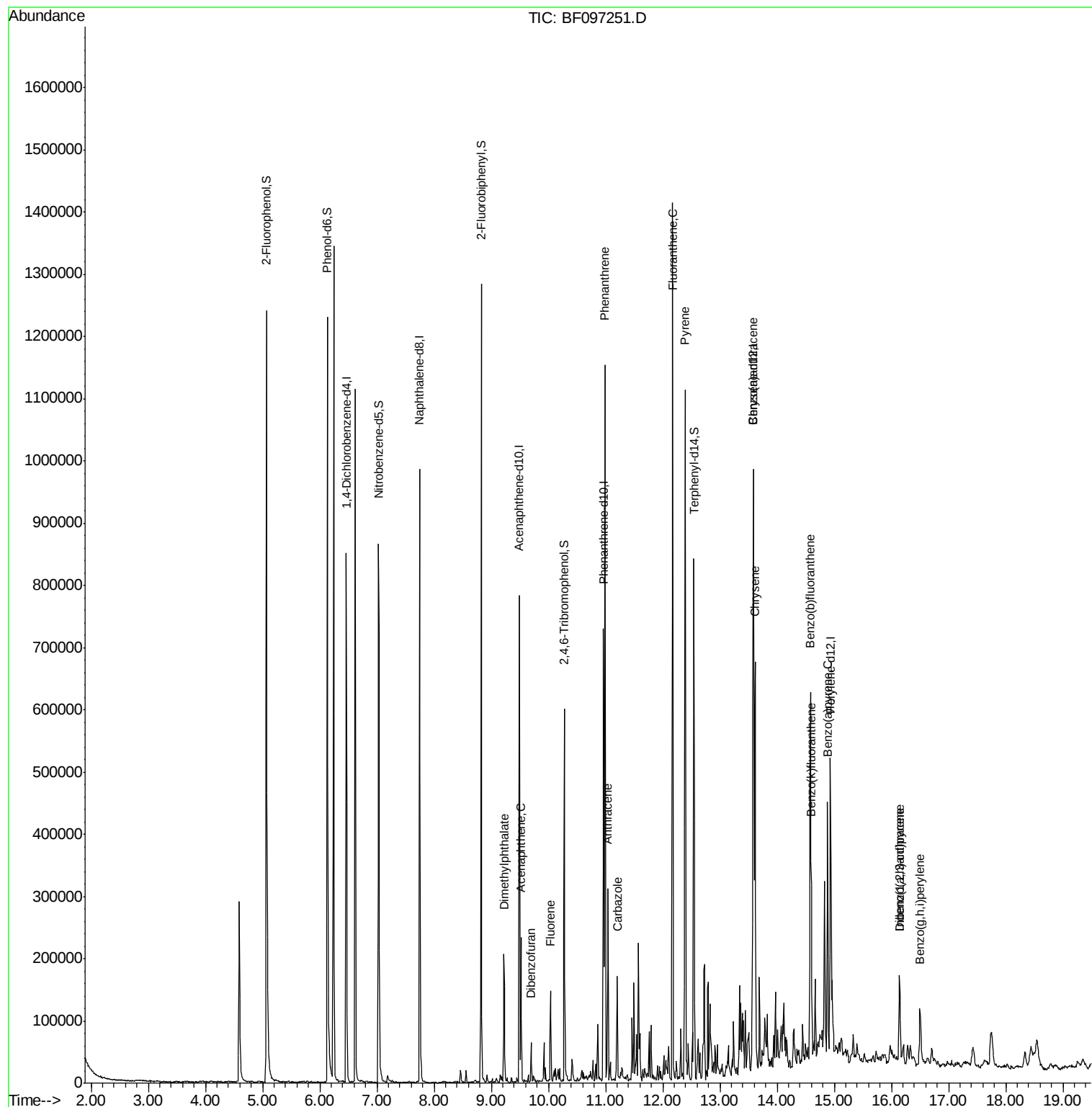
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
Data File : BF097251.D
Acq On : 2 Aug 2017 3:47
Operator : SJ/JU
Sample : I4456-05DL 2X
Misc :
ALS Vial : 27 Sample Multiplier: 1

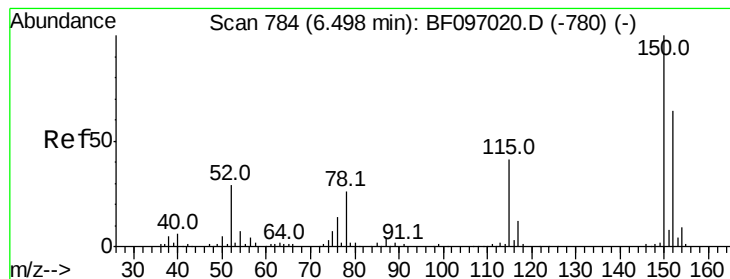
Instrument :
BNA_F
ClientSampleId :
TP-12-SS-4DL

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:34 PM

Quant Time: Aug 02 06:52:04 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 14:11:51 2017
Response via : Initial Calibration





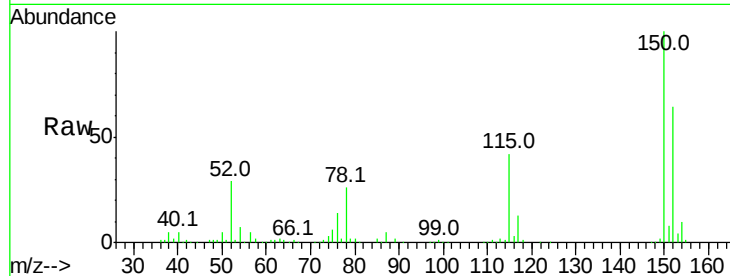
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.46 min Scan# 778
 Delta R.T. -0.04 min
 Lab File: BF097251.D
 Acq: 2 Aug 2017 3:47

Instrument :
 BNA_F
 ClientSampleId :
 TP-12-SS-4DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	126.2	189.2
115	64.9	52.2	78.2

Manual Integrations
 APPROVED

Sohil
 8/2/2017 7:15:34 PM

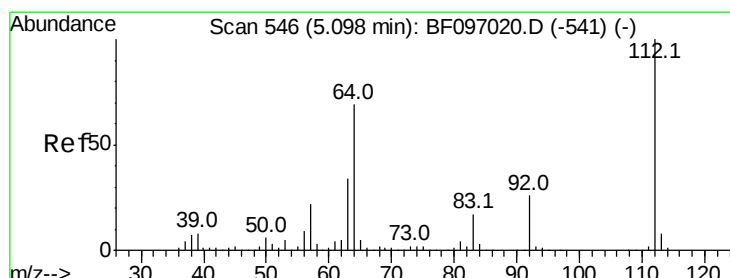
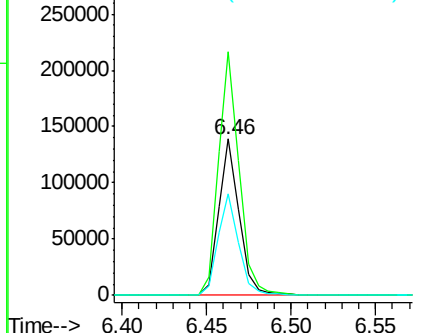
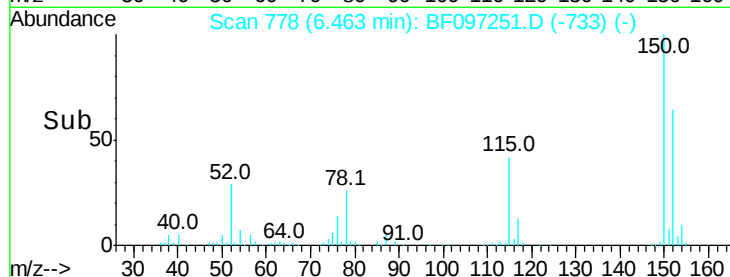


Abundance

Ion 152.00 (151.70 to 152.70): E

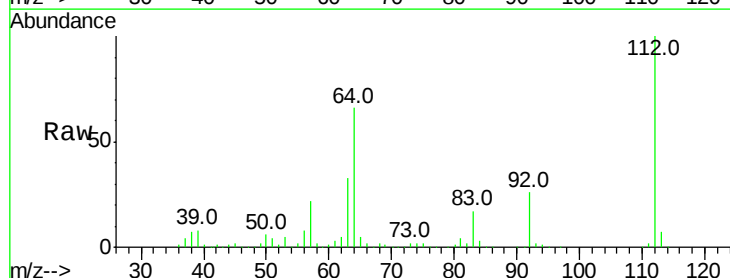
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 51.945 ng
 RT: 5.06 min Scan# 540
 Delta R.T. -0.03 min
 Lab File: BF097251.D
 Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.3	46.0	69.0
63	33.5	23.4	35.0

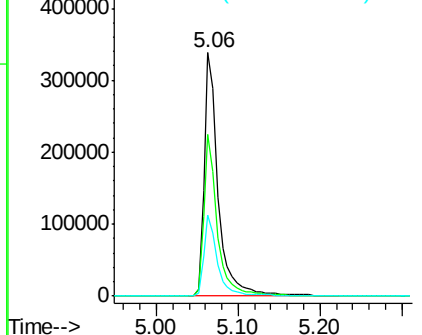
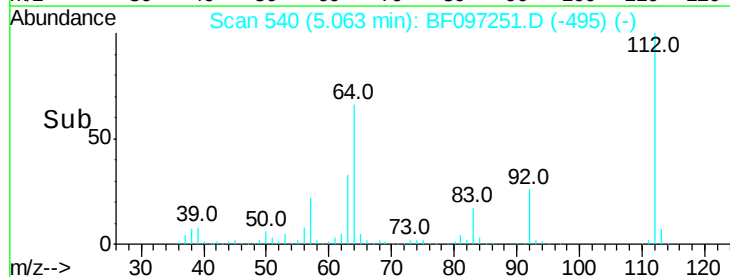


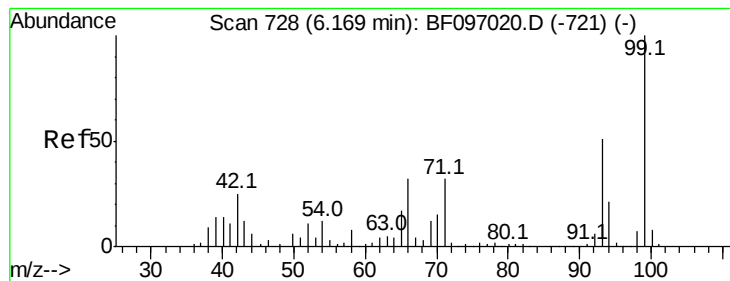
Abundance

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: 50.810 ng

RT: 6.13 min Scan# 722

Delta R.T. -0.04 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Instrument :

BNA_F

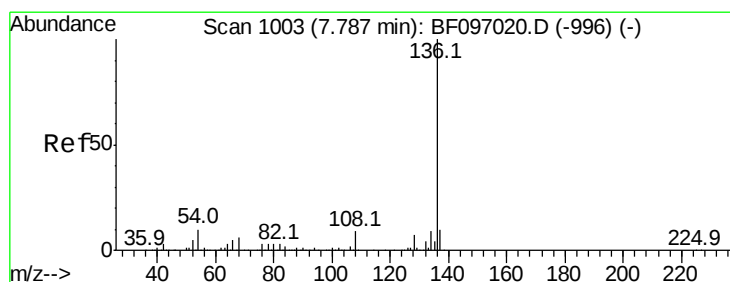
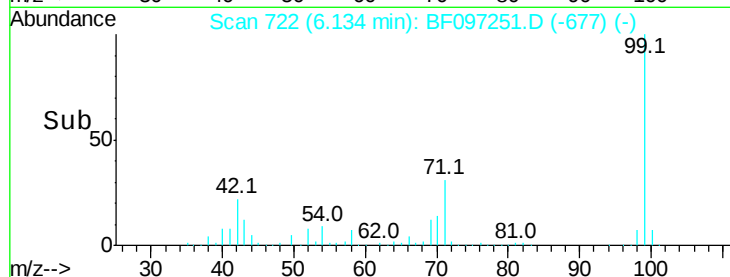
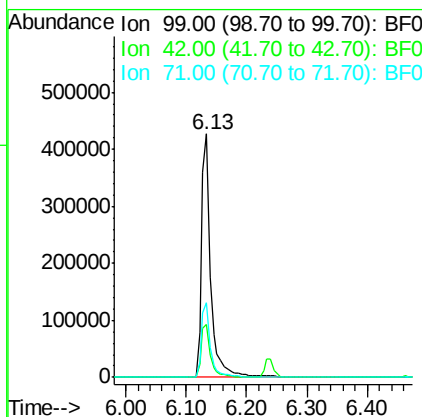
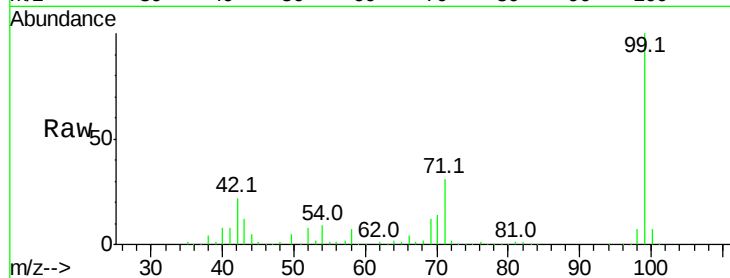
ClientSampleId :

TP-12-SS-4DL

Tot Ion:	99	Resp:	454159
Ion Ratio	Lower	Upper	
99	100		
42	22.0	13.5	20.3#
71	30.8	24.5	36.7

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:34 PM



#21

Naphthalene-d8

Concen: 20.000 ng

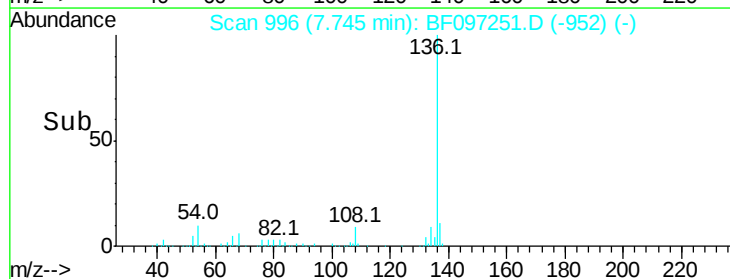
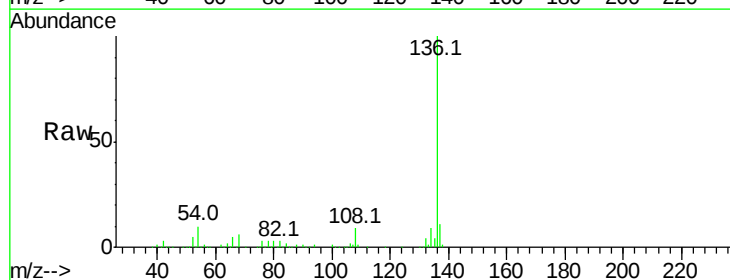
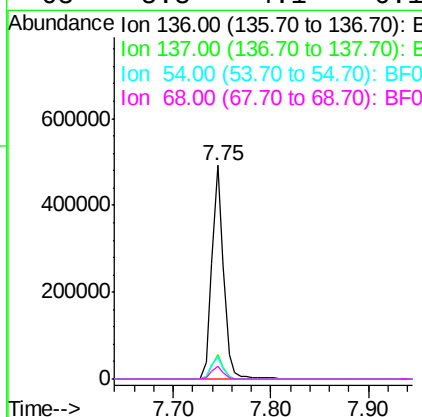
RT: 7.75 min Scan# 996

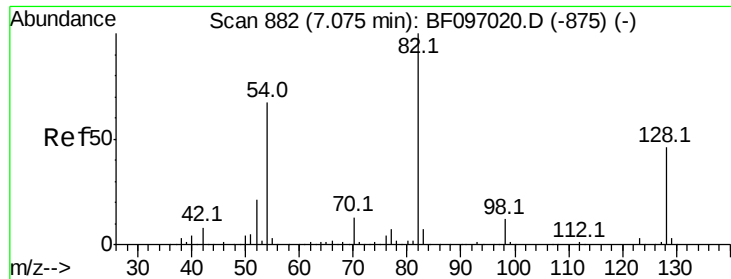
Delta R.T. -0.04 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Tgt Ion:	136	Resp:	410816
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	10.2	4.9	7.3#
68	5.8	4.1	6.1





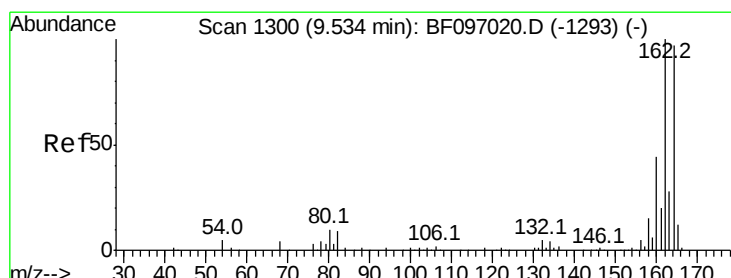
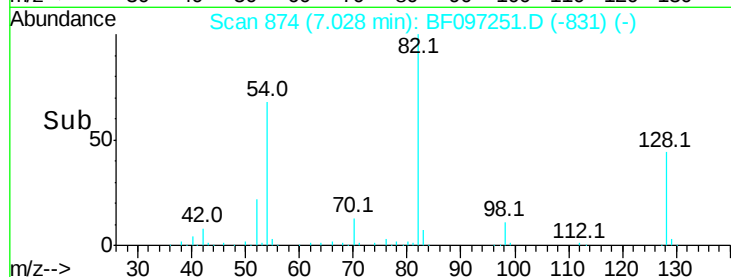
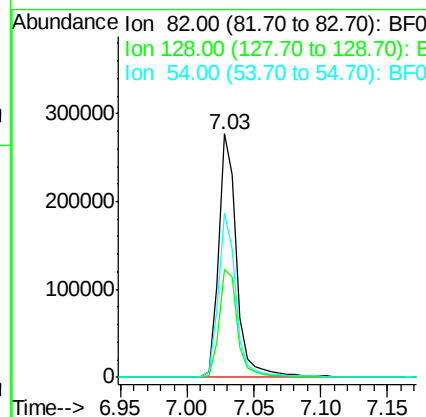
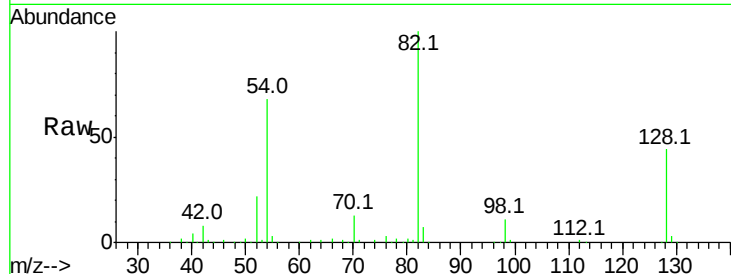
#23
 Nitrobenzene-d5
 Concen: 38.066 ng
 RT: 7.03 min Scan# 874
 Delta R.T. -0.05 min
 Lab File: BF097251.D
 Acq: 2 Aug 2017 3:47

Instrument :
 BNA_F
 ClientSampleId :
 TP-12-SS-4DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.2	34.0	51.0
54	67.5	42.2	63.2

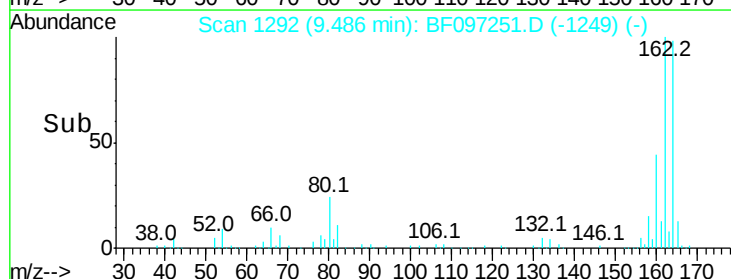
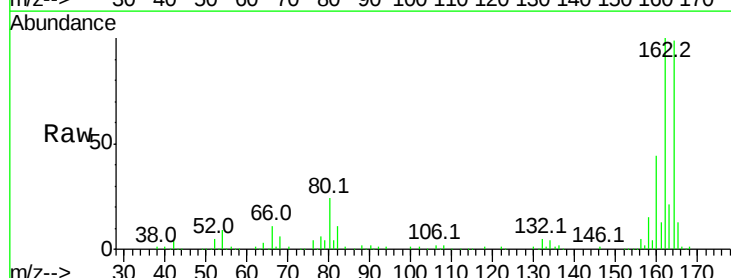
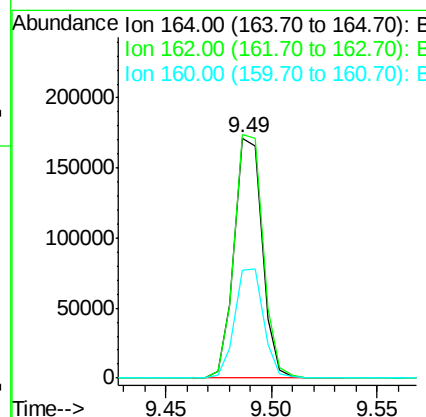
Manual Integrations
 APPROVED

Sohil
 8/2/2017 7:15:34 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.49 min Scan# 1292
 Delta R.T. -0.05 min
 Lab File: BF097251.D
 Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.3	82.6	123.8
160	44.9	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 47.217 ng

RT: 10.28 min Scan# 1427

Delta R.T. -0.04 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Instrument :

BNA_F

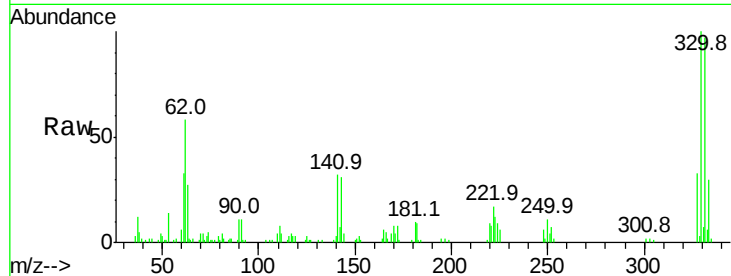
ClientSampleId :

TP-12-SS-4DL

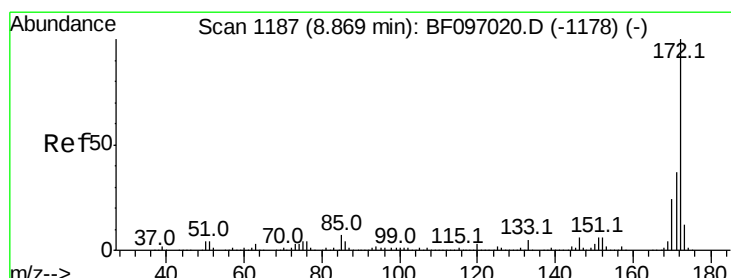
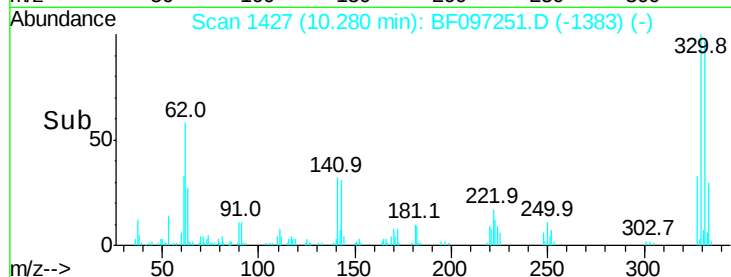
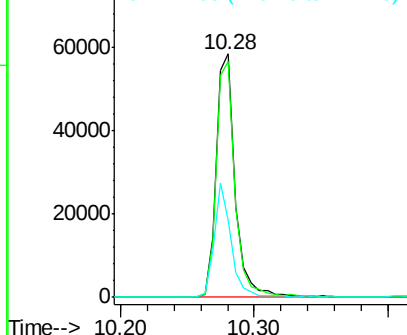
Tot Ion:	330	Resp:	58674
Ion Ratio	Lower	Upper	
330	100		
332	96.8	76.6	115.0
141	41.8	31.4	47.2

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:34 PM



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 38.109 ng

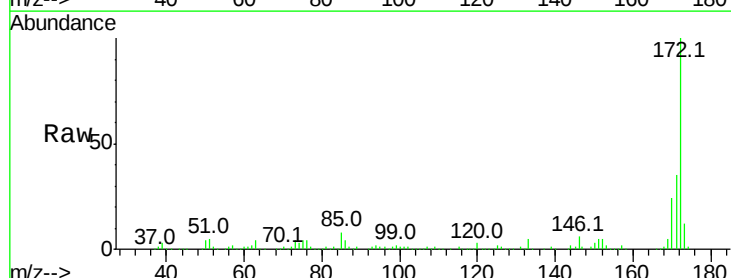
RT: 8.82 min Scan# 1179

Delta R.T. -0.05 min

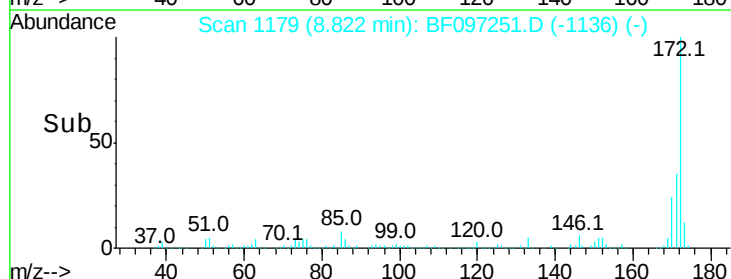
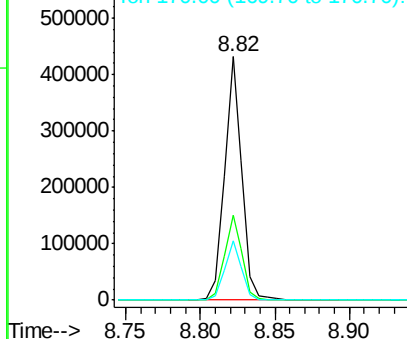
Lab File: BF097251.D

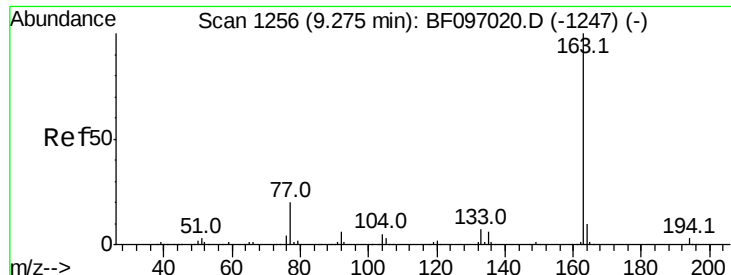
Acq: 2 Aug 2017 3:47

Tgt Ion:	172	Resp:	353176
Ion Ratio	Lower	Upper	
172	100		
171	34.7	29.6	44.4
170	24.1	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





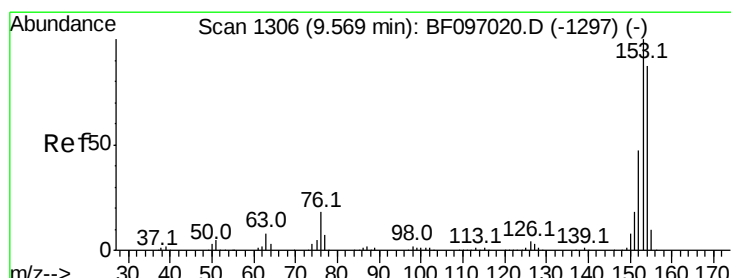
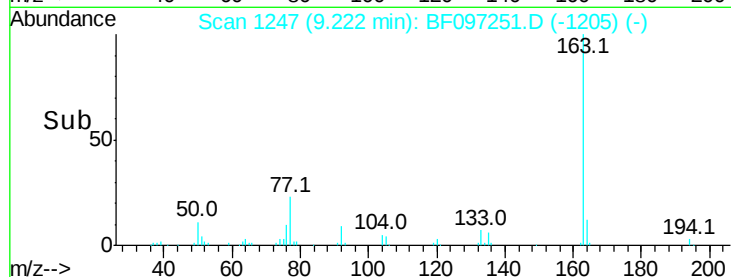
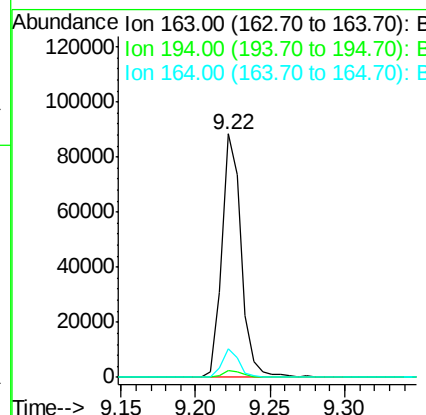
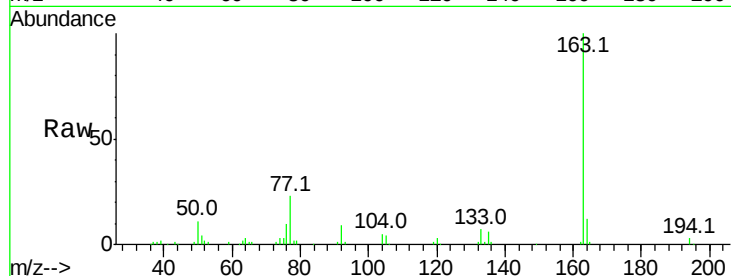
#49
Dimethylphthalate
Concen: 6.749 ng
RT: 9.22 min Scan# 1247
Delta R.T. -0.05 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Instrument :
BNA_F
ClientSampleId :
TP-12-SS-4DL

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.0	2.6	4.0	
164	11.5	8.4	12.6	

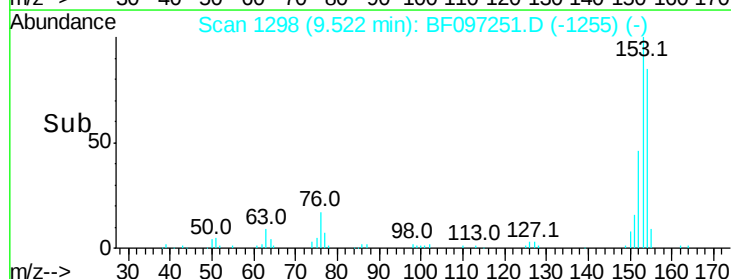
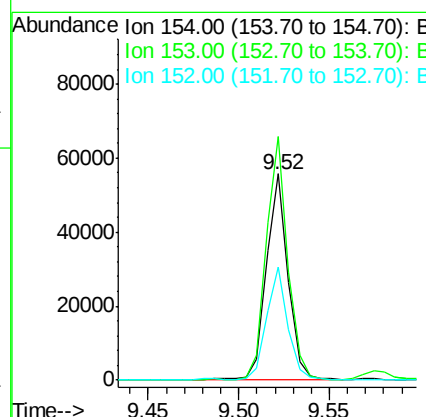
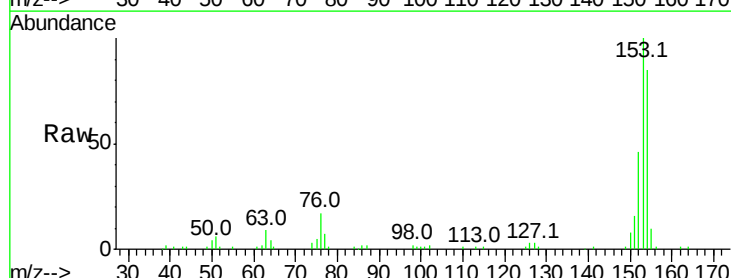
Manual Integrations
APPROVED

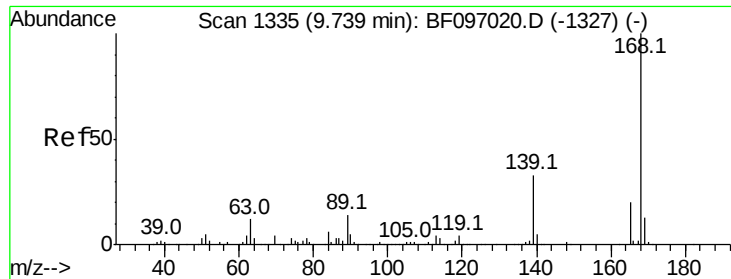
Sohil
8/2/2017 7:15:34 PM



#51
Acenaphthene
Concen: 5.185 ng
RT: 9.52 min Scan# 1298
Delta R.T. -0.05 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	118.3	90.5	135.7	
152	54.9	43.6	65.4	





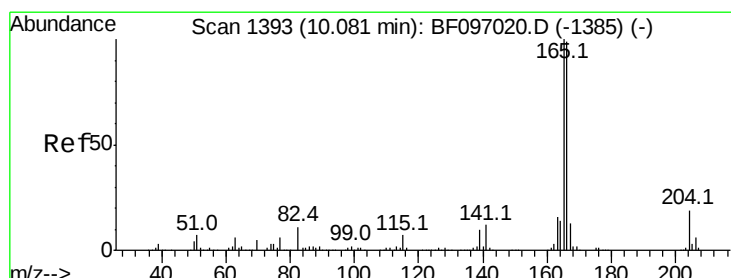
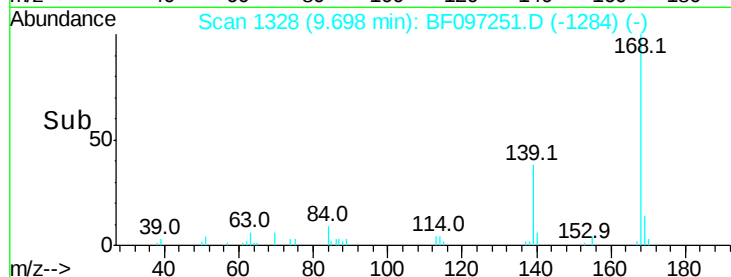
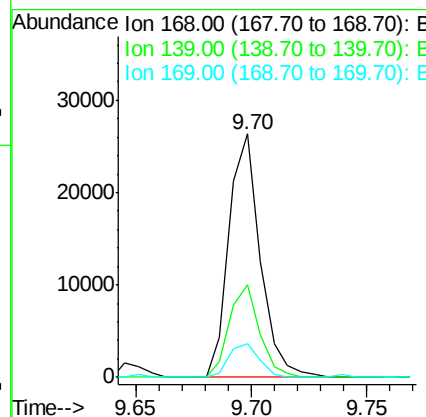
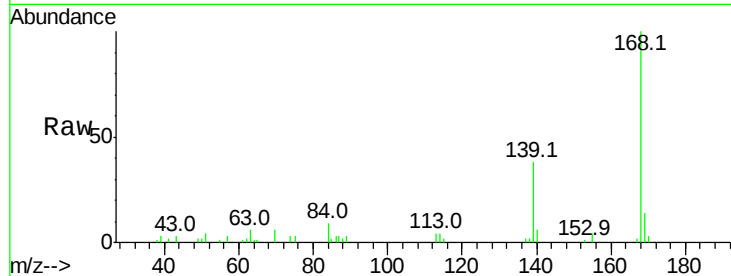
#54
Dibenzenofuran
Concen: 2.085 ng
RT: 9.70 min Scan# 1328
Delta R.T. -0.04 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Instrument :
BNA_F
ClientSampleId :
TP-12-SS-4DL

Tot Ion	Ratio	Resp	Lower	Upper
168	100	24819		
139	38.1		30.6	45.8
169	13.8		10.8	16.2

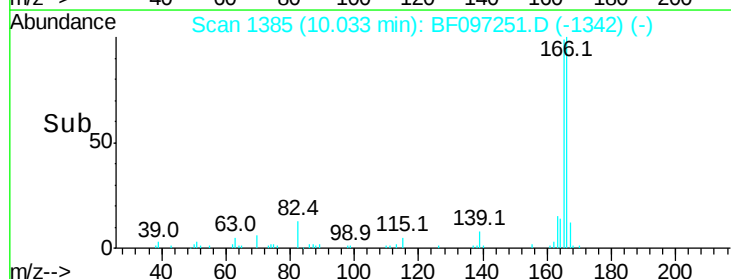
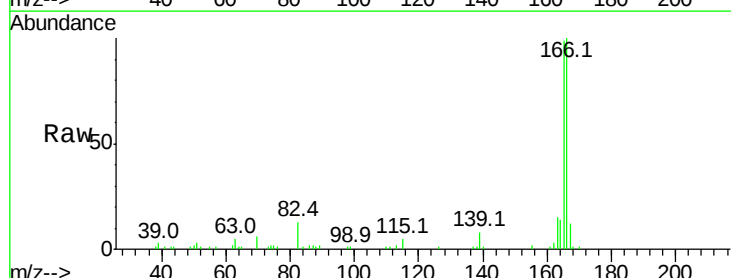
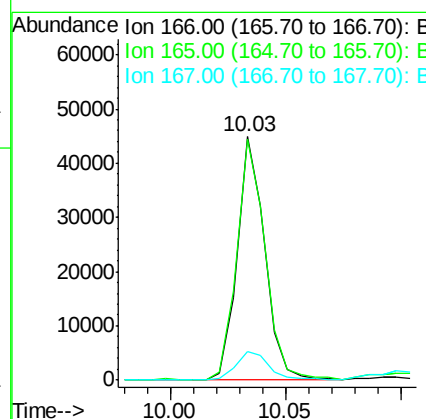
Manual Integrations
APPROVED

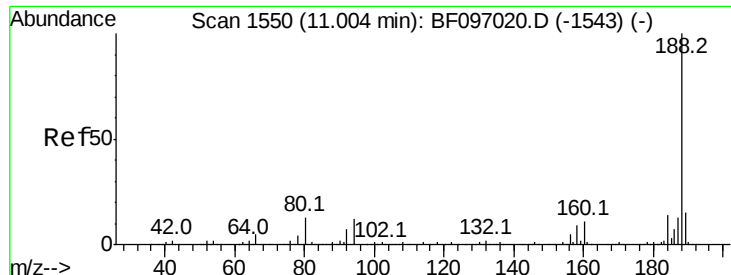
Sohil
8/2/2017 7:15:34 PM



#57
Fluorene
Concen: 4.166 ng
RT: 10.03 min Scan# 1385
Delta R.T. -0.05 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	37275		
165	98.8		78.8	118.2
167	11.8		10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.96 min Scan# 1543

Delta R.T. -0.04 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Instrument :

BNA_F

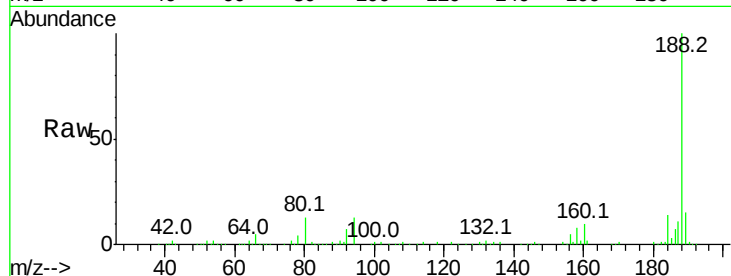
ClientSampleId :

TP-12-SS-4DL

Tot Ion:188	Resp: 233624
Ion Ratio	Lower Upper
188 100	
94 13.2	9.4 14.2
80 12.9	10.2 15.2

Manual Integrations
APPROVED

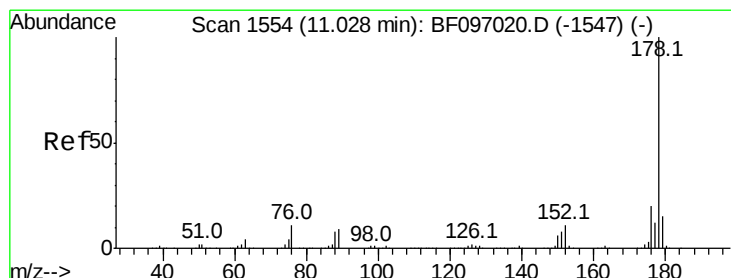
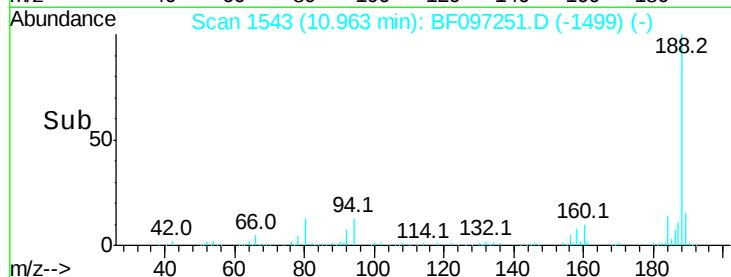
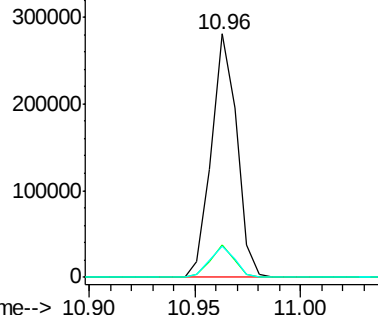
Sohil
8/2/2017 7:15:34 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 32.076 ng

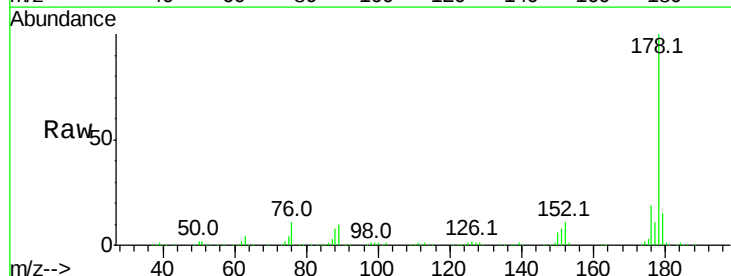
RT: 10.99 min Scan# 1547

Delta R.T. -0.04 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

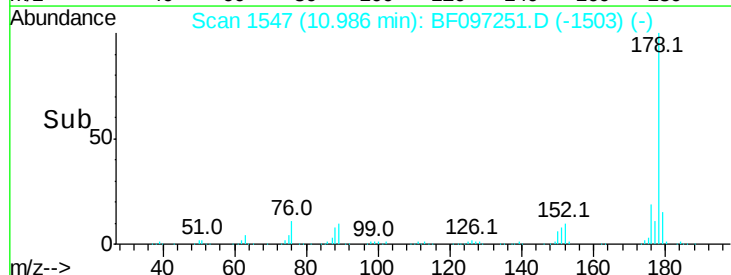
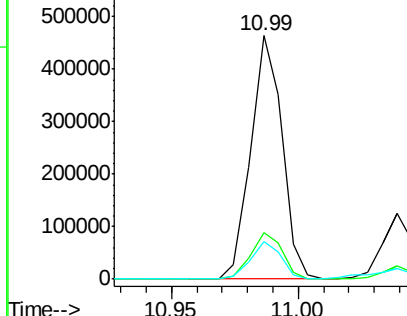
Tgt Ion:178	Resp: 401515
Ion Ratio	Lower Upper
178 100	
176 19.1	16.2 24.4
179 15.3	12.6 19.0

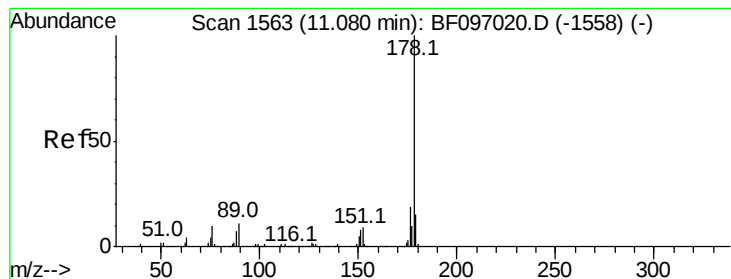


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 8.247 ng

RT: 11.04 min Scan# 1556

Delta R.T. -0.04 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Instrument :

BNA_F

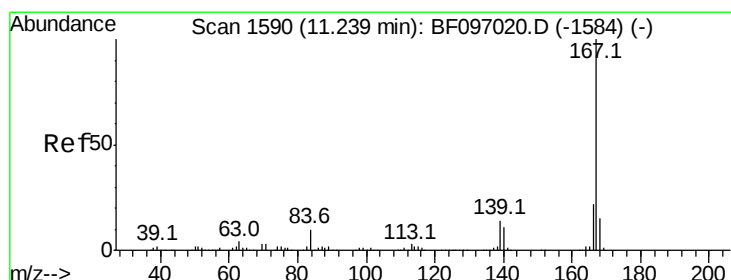
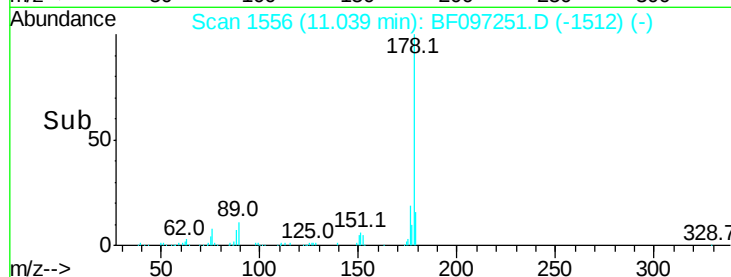
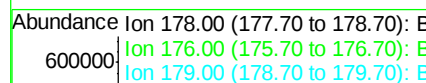
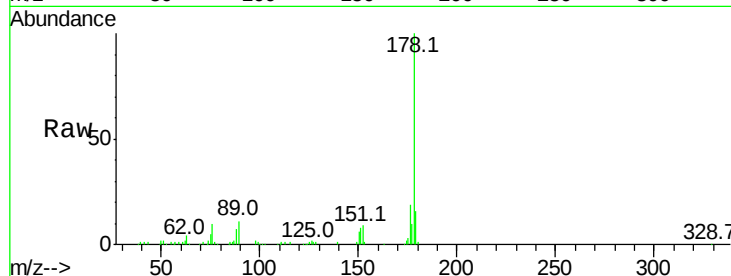
ClientSampleId :

TP-12-SS-4DL

Tot Ion:178	Resp:	105739
Ion Ratio	Lower	Upper
178	100	
176	19.5	15.8 23.8
179	15.9	12.7 19.1

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:34 PM



#72

Carbazole

Concen: 5.114 ng

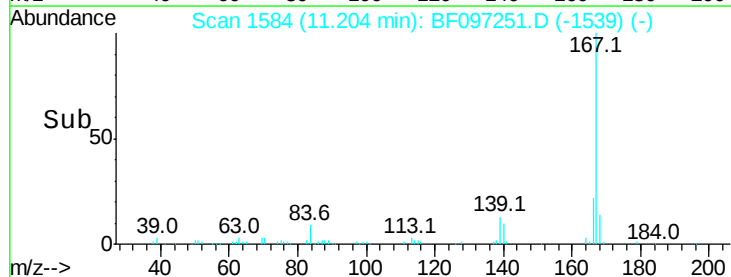
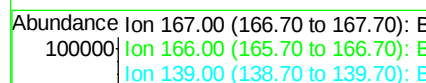
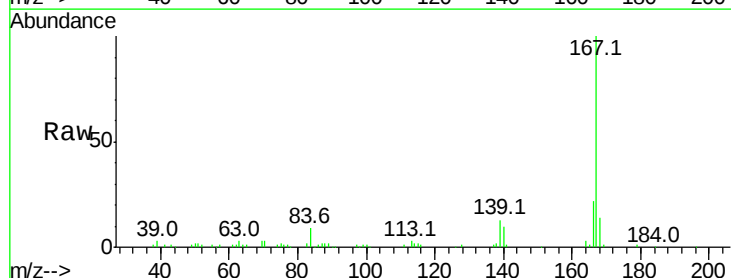
RT: 11.20 min Scan# 1584

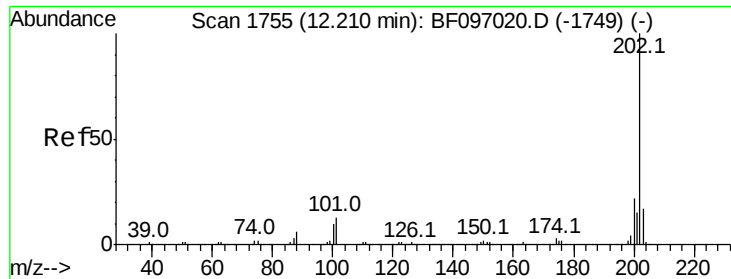
Delta R.T. -0.04 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Tgt Ion:167	Resp:	64488
Ion Ratio	Lower	Upper
167	100	
166	21.7	18.1 27.1
139	13.4	11.7 17.5





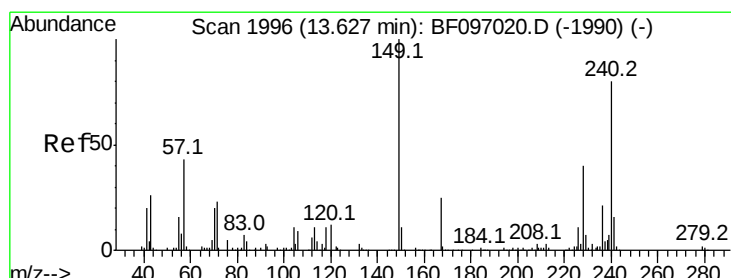
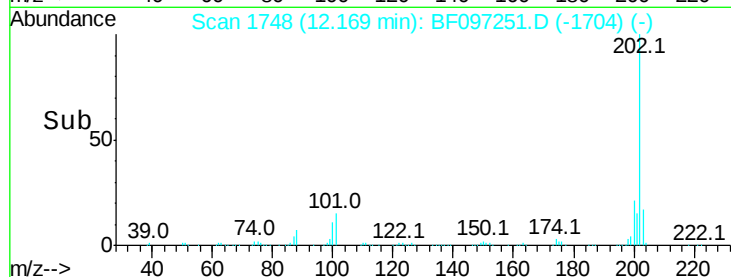
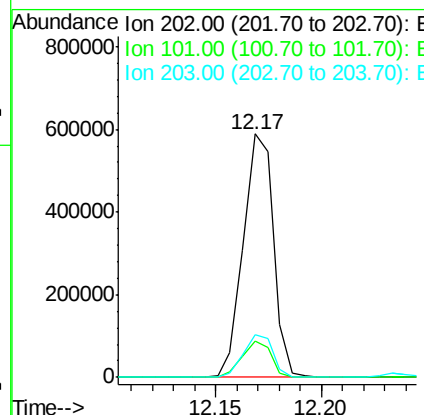
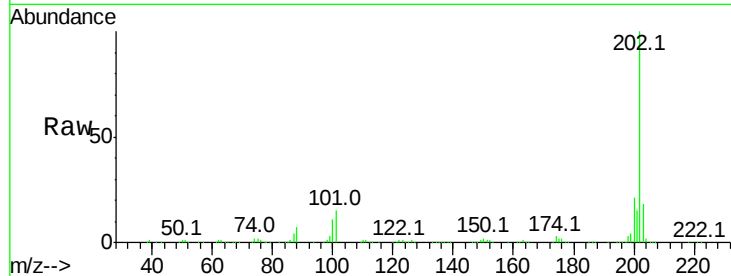
#74
 Fluoranthene
 Concen: 47.492 ng
 RT: 12.17 min Scan# 1748
 Delta R.T. -0.04 min
 Lab File: BF097251.D
 Acq: 2 Aug 2017 3:47

Instrument :
 BNA_F
 ClientSampleId :
 TP-12-SS-4DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	14.7	0.0	33.2
203	17.5	0.0	38.1

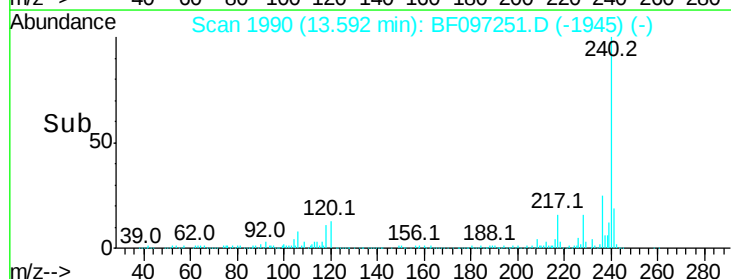
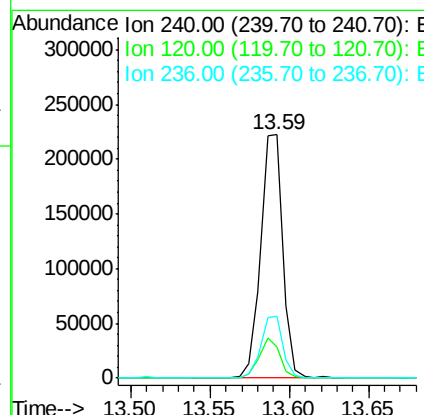
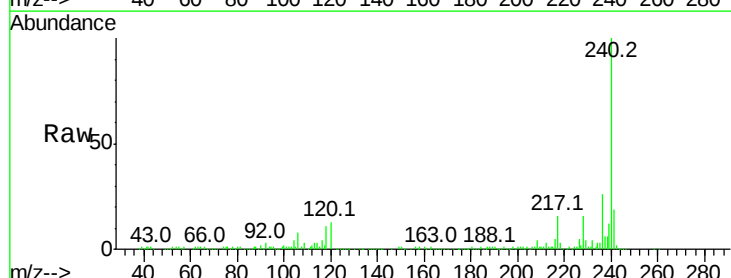
Manual Integrations
 APPROVED

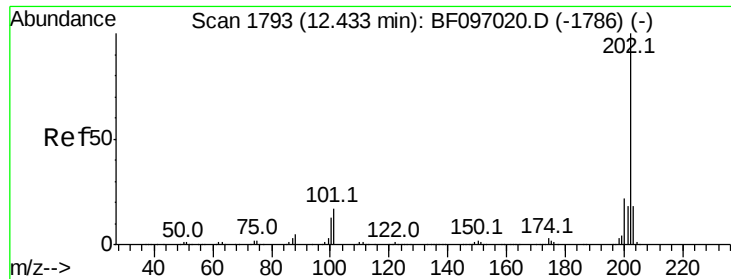
Sohil
 8/2/2017 7:15:34 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.59 min Scan# 1990
 Delta R.T. -0.04 min
 Lab File: BF097251.D
 Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.0	5.8	8.8#
236	25.6	20.5	30.7





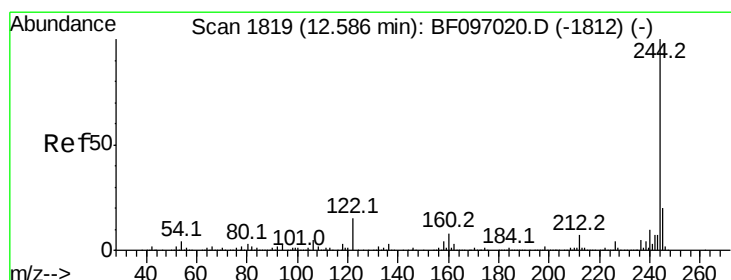
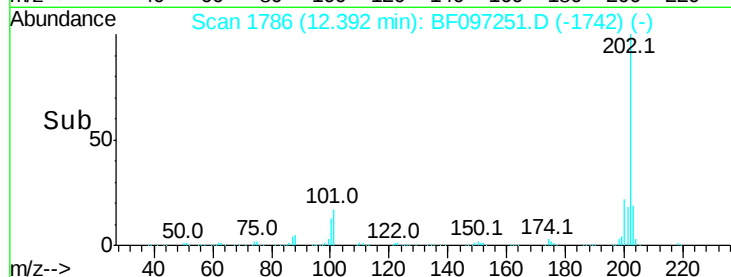
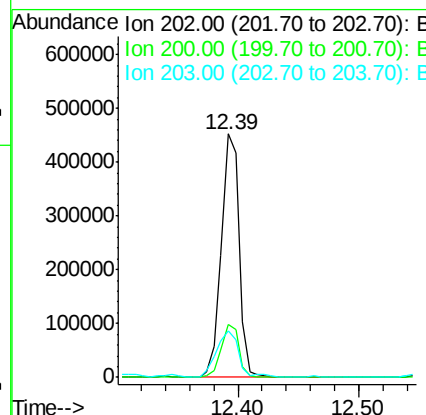
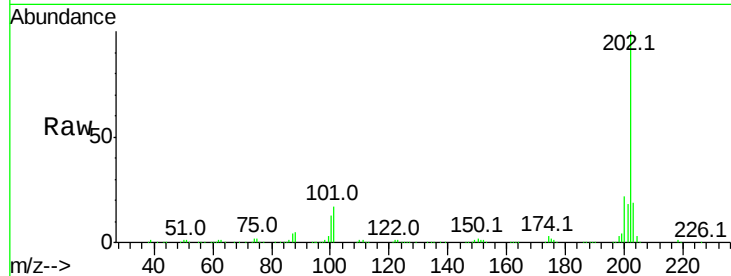
#77
Pvrene
Concen: 25.655 ng
RT: 12.39 min Scan# 1786
Delta R.T. -0.04 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Instrument :
BNA_F
ClientSampleId :
TP-12-SS-4DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	457448		
200	21.8		17.6	26.4
203	19.0		14.4	21.6

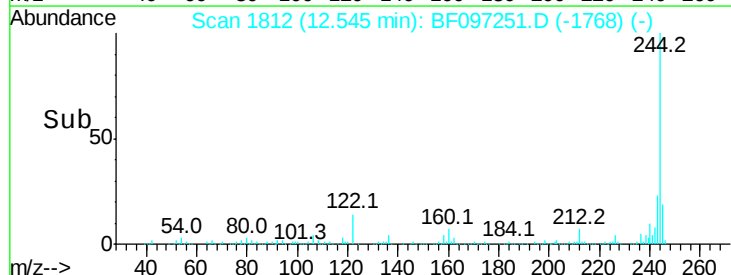
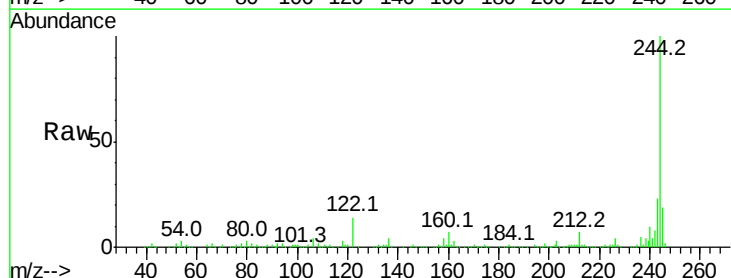
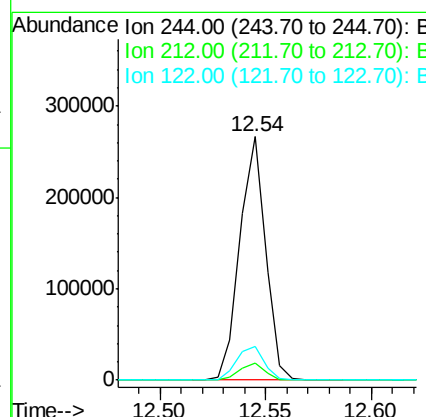
Manual Integrations
APPROVED

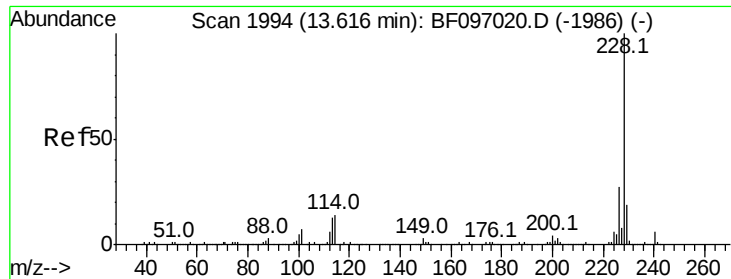
Sohil
8/2/2017 7:15:34 PM



#78
Terphenyl-d14
Concen: 20.919 ng
RT: 12.54 min Scan# 1812
Delta R.T. -0.04 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	223476		
212	6.8		6.0	9.0
122	14.0		10.3	15.5





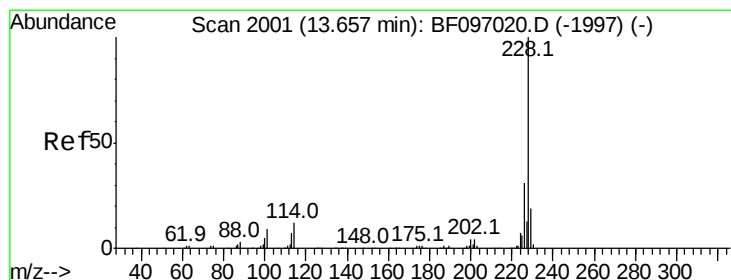
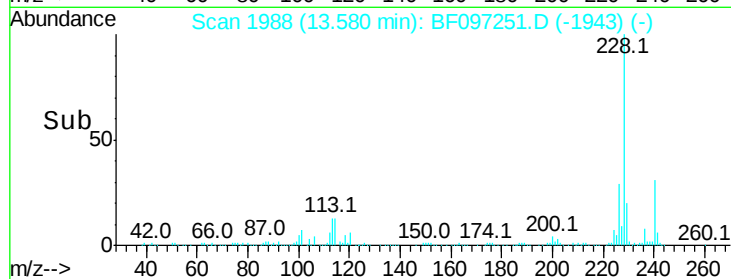
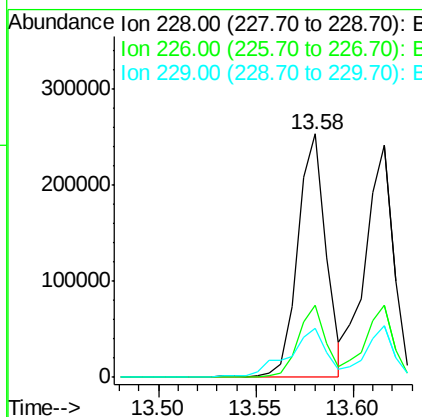
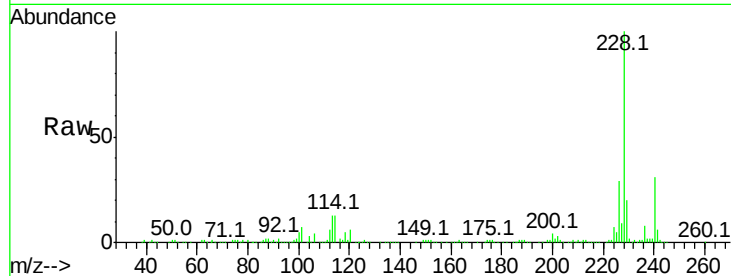
#80
Benzo(a)anthracene
Concen: 17.943 ng
RT: 13.58 min Scan# 1988
Delta R.T. -0.04 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Instrument :
BNA_F
ClientSampleId :
TP-12-SS-4DL

Tot Ion	Ratio	Resp	Lower	Upper
228	100	252870		
226	29.4		22.6	33.8
229	20.0		16.3	24.5

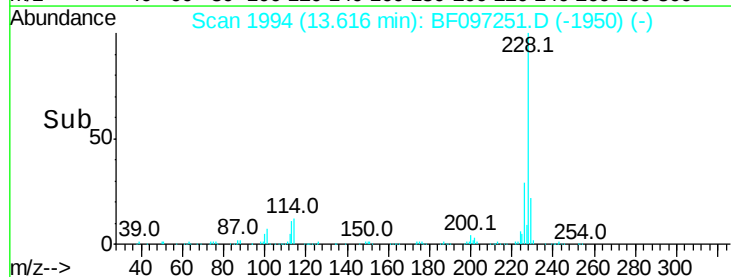
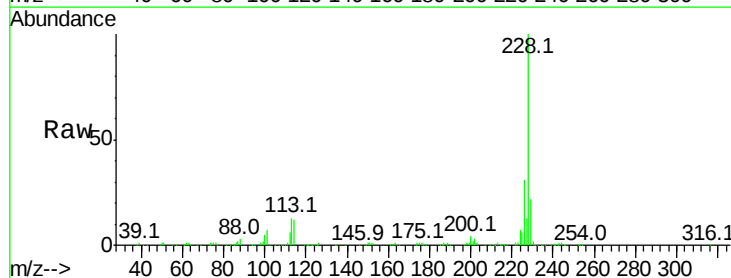
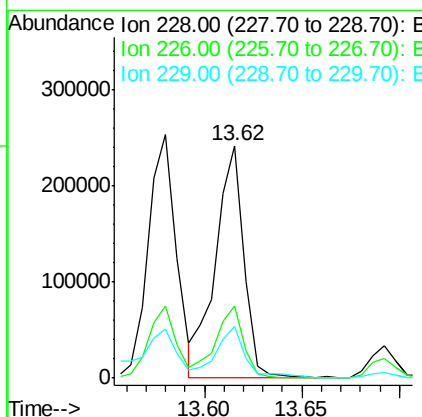
Manual Integrations
APPROVED

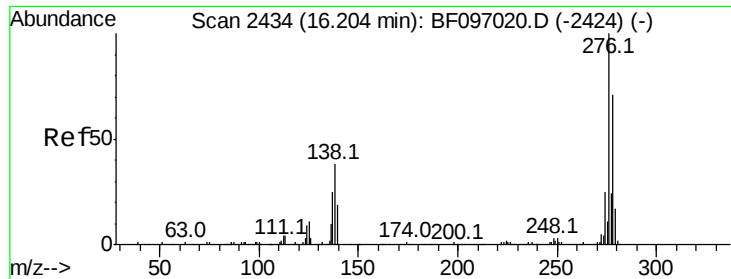
Sohil
8/2/2017 7:15:34 PM



#82
Chrysene
Concen: 17.688 ng
RT: 13.62 min Scan# 1994
Delta R.T. -0.04 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	243411		
226	30.9		24.9	37.3
229	22.4		15.8	23.6





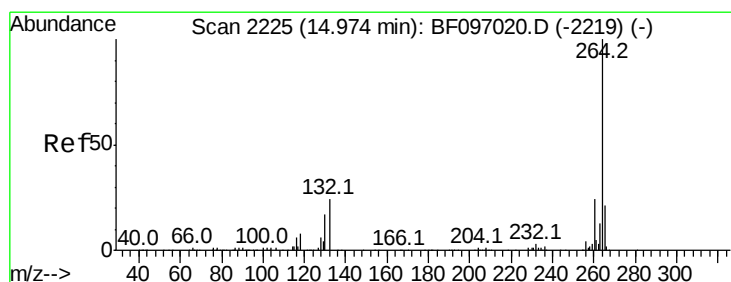
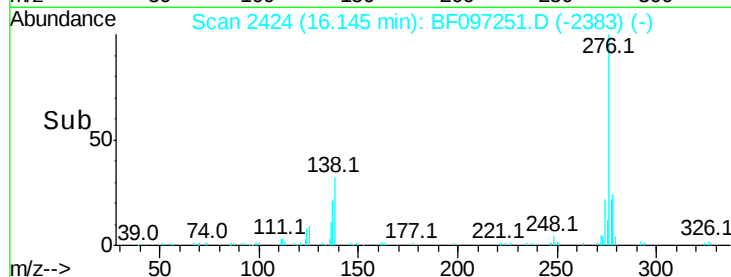
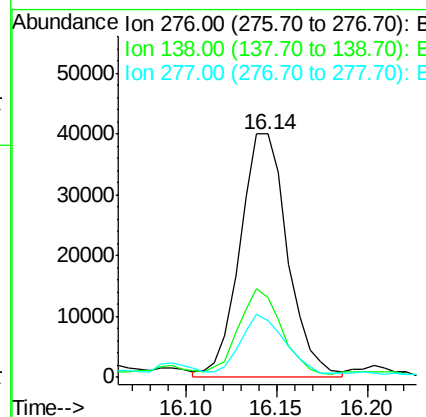
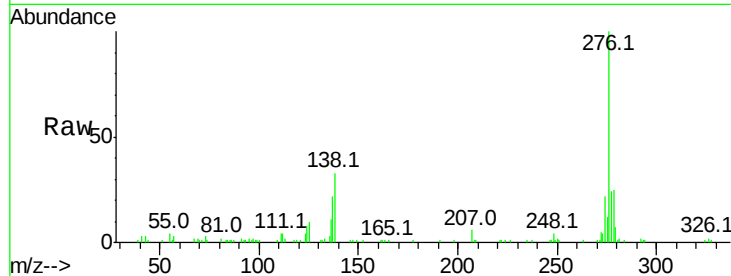
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.222 ng
 RT: 16.14 min Scan# 2424
 Delta R.T. -0.06 min
 Lab File: BF097251.D
 Acq: 2 Aug 2017 3:47

Instrument :
 BNA_F
 ClientSampleId :
 TP-12-SS-4DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	34.1	27.8	41.6
277	21.9	20.2	30.4

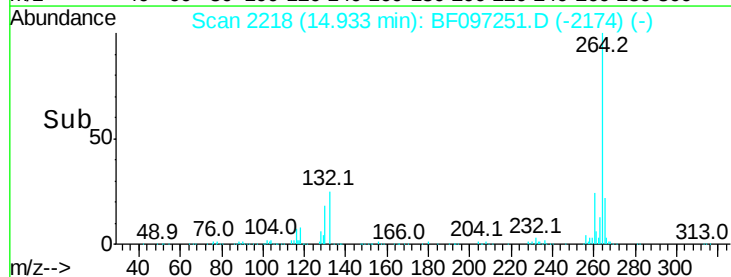
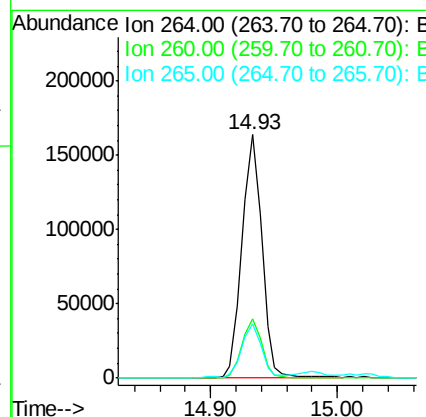
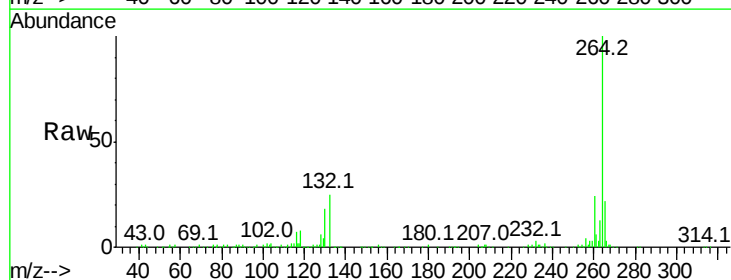
Manual Integrations
 APPROVED

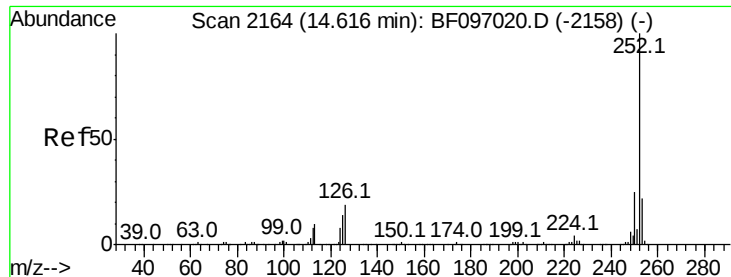
Sohil
 8/2/2017 7:15:34 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 14.93 min Scan# 2218
 Delta R.T. -0.04 min
 Lab File: BF097251.D
 Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	22.3	17.2	25.8





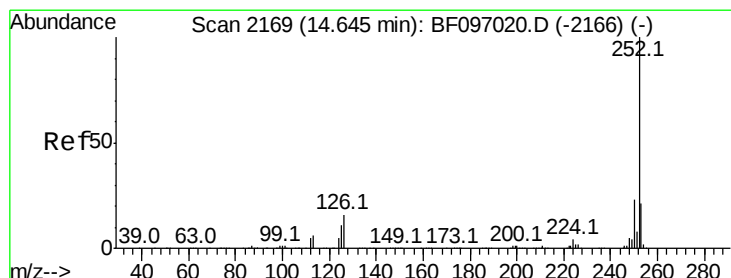
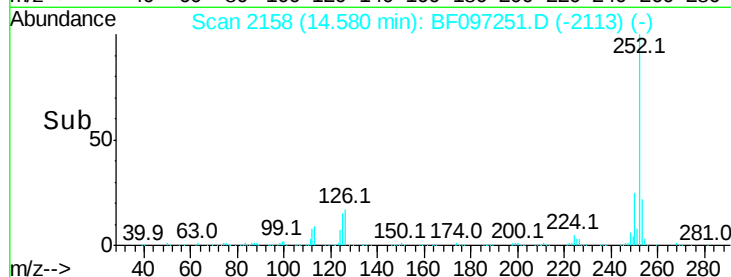
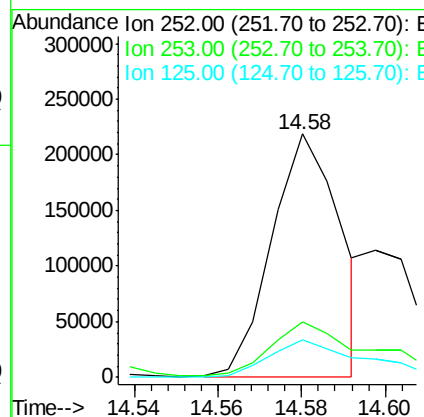
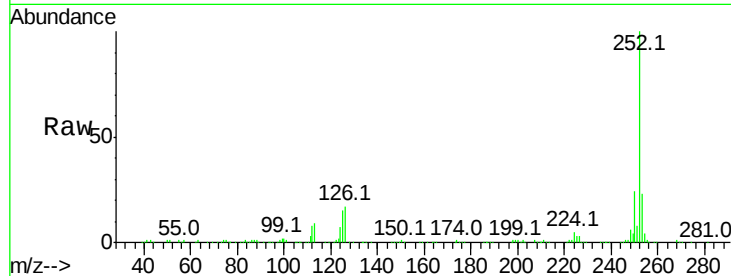
#87
Benzo(b)fluoranthene
Concen: 23.432 ng m
RT: 14.58 min Scan# 2158
Delta R.T. -0.04 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Instrument :
BNA_F
ClientSampleId :
TP-12-SS-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	15.2	9.8	14.8

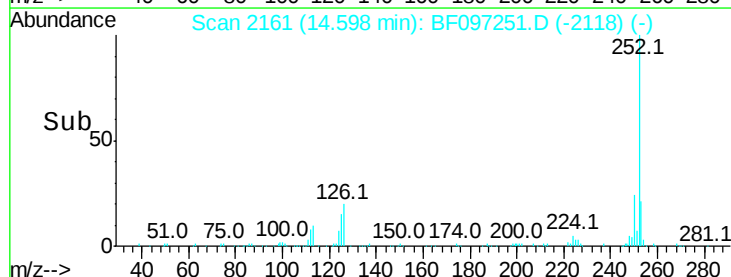
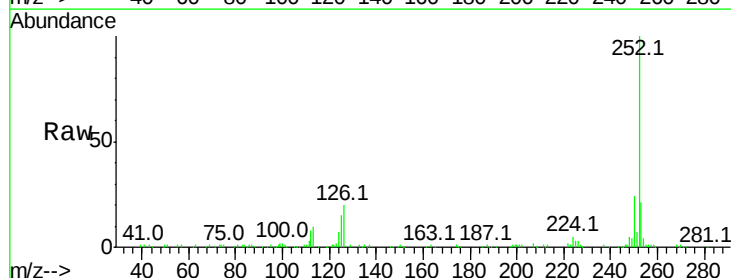
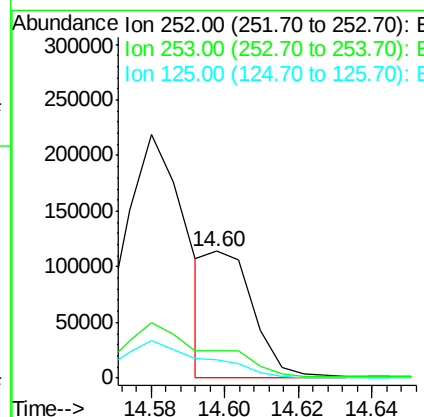
Manual Integrations
APPROVED

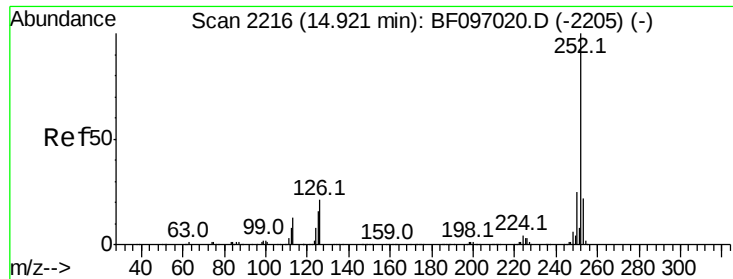
Sohil
8/2/2017 7:15:34 PM



#88
Benzo(k)fluoranthene
Concen: 9.680 ng m
RT: 14.60 min Scan# 2161
Delta R.T. -0.05 min
Lab File: BF097251.D
Acq: 2 Aug 2017 3:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.4	27.6
125	14.8	13.1	19.7





#89

Benzo(a)pyrene

Concen: 16.932 ng

RT: 14.88 min Scan# 2209

Delta R.T. -0.04 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Instrument :

BNA_F

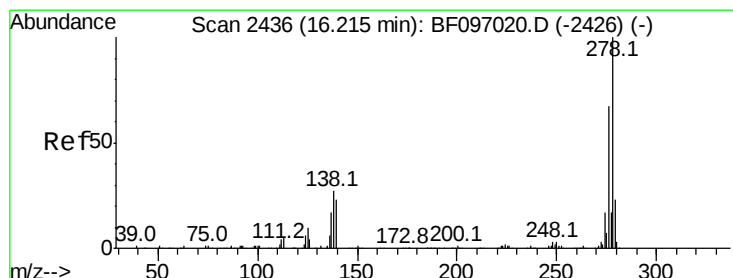
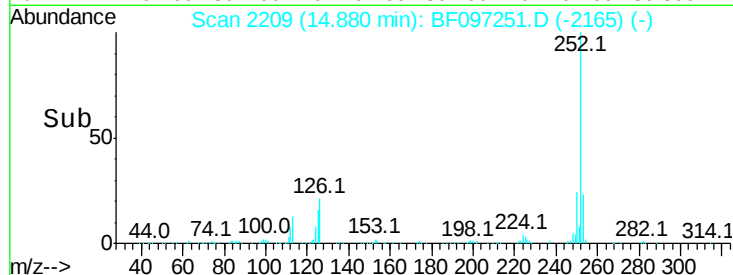
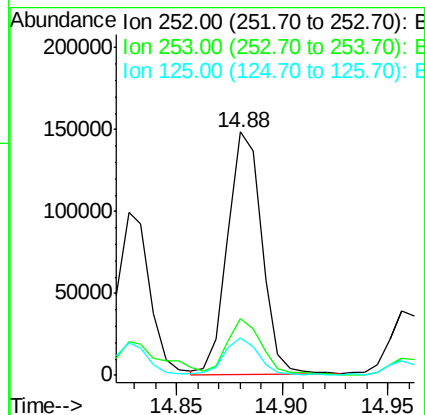
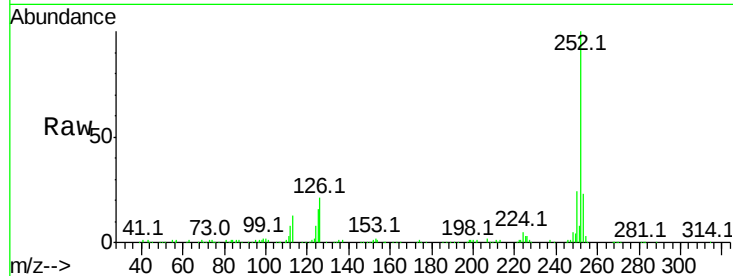
ClientSampleId :

TP-12-SS-4DL

Tot Ion:	252	Resp:	166074
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.5	26.3
125	15.6	11.0	16.4

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:34 PM



#90

Dibenzo(a,h)anthracene

Concen: 2.287 ng m

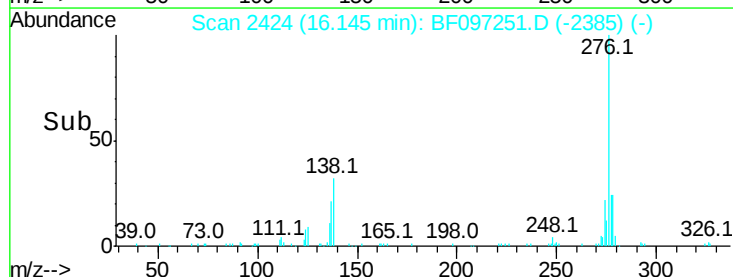
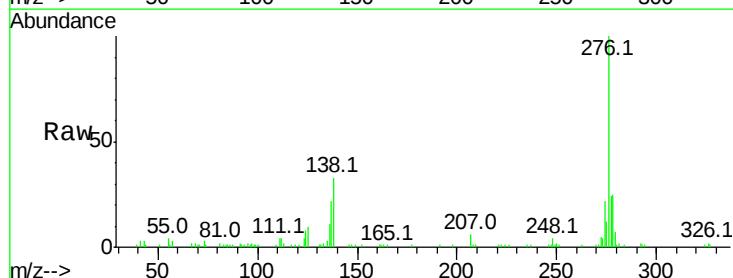
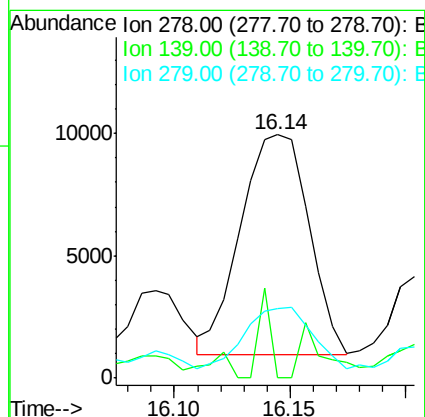
RT: 16.14 min Scan# 2424

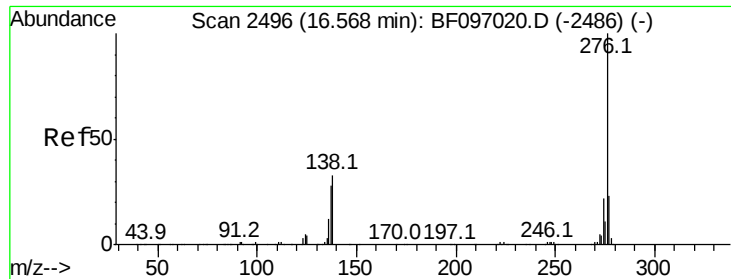
Delta R.T. -0.07 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Tgt Ion:	278	Resp:	18392
Ion Ratio	Lower	Upper	
278	100		
139	0.0	16.6	24.8#
279	28.4	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 7.376 ng

RT: 16.50 min Scan# 2485

Delta R.T. -0.06 min

Lab File: BF097251.D

Acq: 2 Aug 2017 3:47

Instrument :

BNA_F

ClientSampleId :

TP-12-SS-4DL

Tot Ion: 276 Resp: 62218

Ion Ratio Lower Upper

276 100

277 25.5 18.6 28.0

138 32.0 25.4 38.0

Manual Integrations

APPROVED

Sohil

8/2/2017 7:15:34 PM

