

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
 Data File : BF097386.D
 Acq On : 5 Aug 2017 5:57
 Operator : SJ/JU
 Sample : I4522-02DL 2X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3D68DL

Manual Integrations
 APPROVED

Sohil
 8/7/2017 6:10:18 PM

Quant Time: Aug 07 12:17:38 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.44	152	104879	20.00	ng	-0.06
21) Naphthalene-d8	7.72	136	433124	20.00	ng	-0.06
38) Acenaphthene-d10	9.46	164	162966	20.00	ng	-0.07
63) Phenanthrene-d10	10.93	188	224134	20.00	ng	-0.07
75) Chrysene-d12	13.56	240	164841	20.00	ng	-0.06
86) Perylene-d12	14.90	264	136172	20.00	ng	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	308650	44.36	ng	-0.06
7) Phenol-d6	6.11	99	414285	52.16	ng	-0.06
23) Nitrobenzene-d5	7.00	82	216755	29.36	ng	-0.07
41) 2,4,6-Tribromophenol	10.25	330	50010	38.84	ng	-0.07
44) 2-Fluorobiphenyl	8.79	172	261751	27.26	ng	-0.08
78) Terphenyl-d14	12.52	244	160164	19.81	ng	-0.07
Target Compounds						Qvalue
10) Phenol	6.13	94	30909	3.281	ng	70
31) Naphthalene	7.74	128	139168	6.816	ng	100
49) Dimethylphthalate	9.20	163	54317	4.389	ng	98
51) Acenaphthene	9.49	154	46214	4.990	ng	97
54) Dibenzofuran	9.67	168	51208	4.151	ng	97
57) Fluorene	10.00	166	58955	6.359	ng	96
70) Phenanthrene	10.96	178	449358	37.418	ng	99
71) Anthracene	11.01	178	139861	11.371	ng	99
72) Carbazole	11.17	167	73296	6.059	ng	97
74) Fluoranthene	12.14	202	565117	48.034	ng	98
77) Pyrene	12.37	202	470051	34.832	ng	99
80) Benzo(a)anthracene	13.55	228	245259	22.995	ng	98
82) Chrysene	13.59	228	201658	19.362	ng	98
85) Indeno(1,2,3-cd)pyrene	16.10	276	94744	10.609	ng	97
87) Benzo(b)fluoranthene	14.55	252	228545m	27.920	ng	
88) Benzo(k)fluoranthene	14.56	252	91967m	11.790	ng	
89) Benzo(a)pyrene	14.85	252	172421	23.015	ng	96
90) Dibenzo(a,h)anthracene	16.10	278	26128m	4.253	ng	
91) Benzo(a,h,i)perylene	16.46	276	86801	13.473	ng	93

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

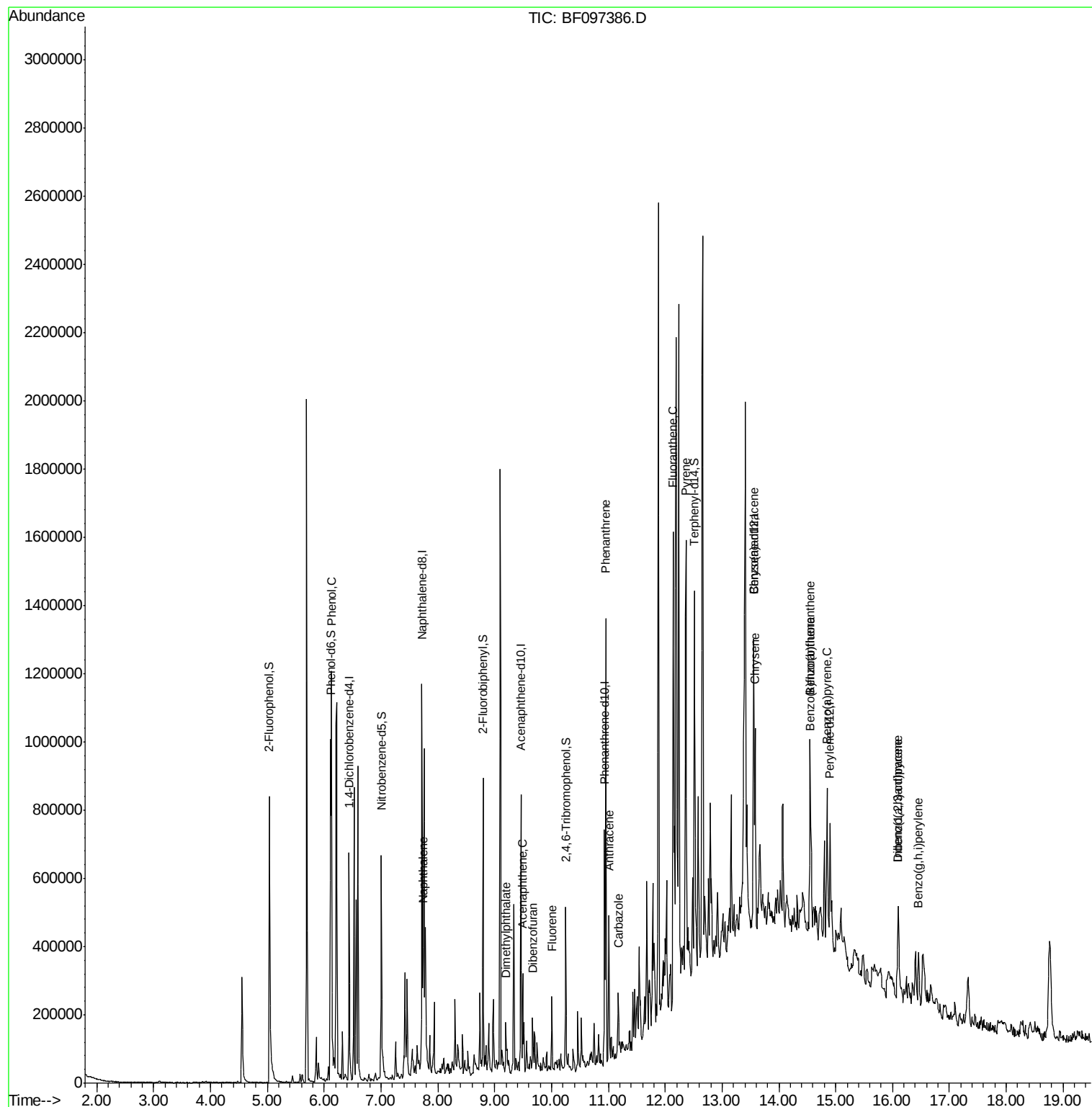
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
Data File : BF097386.D
Acq On : 5 Aug 2017 5:57
Operator : SJ/JU
Sample : I4522-02DL 2X
Misc :
ALS Vial : 34 Sample Multiplier: 1

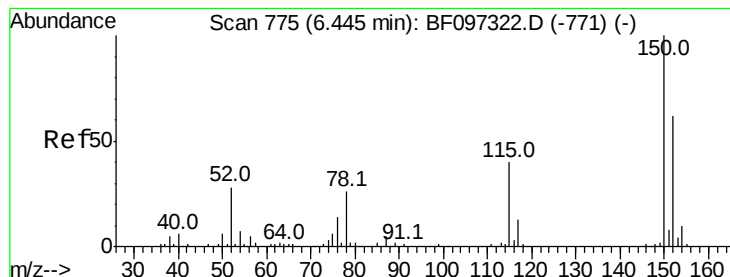
Instrument :
BNA_F
ClientSampleId :
TP-3D68DL

Manual Integrations
APPROVED

Sohil
8/7/2017 6:10:18 PM

Quant Time: Aug 07 12:17:38 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 04 01:17:22 2017
Response via : Initial Calibration





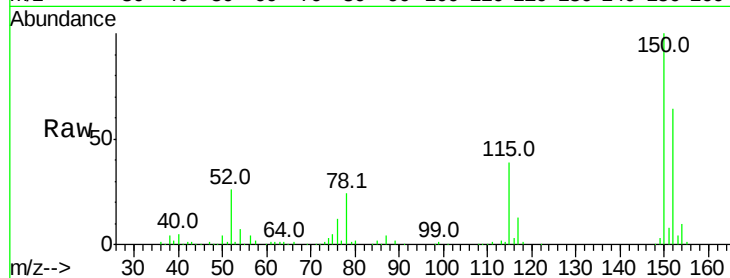
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.44 min Scan# 791
 Delta R.T. -0.06 min
 Lab File: BF097386.D
 Acq: 5 Aug 2017 5:57

Instrument :
 BNA_F
 ClientSampleId :
 TP-3D68DL

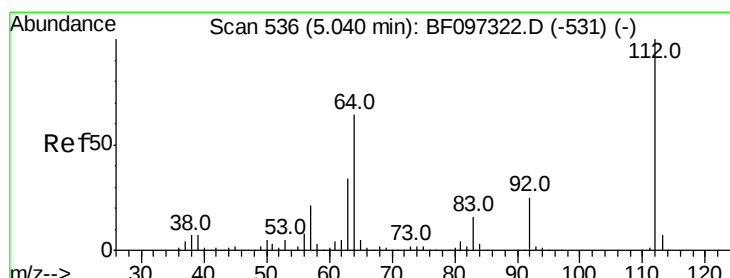
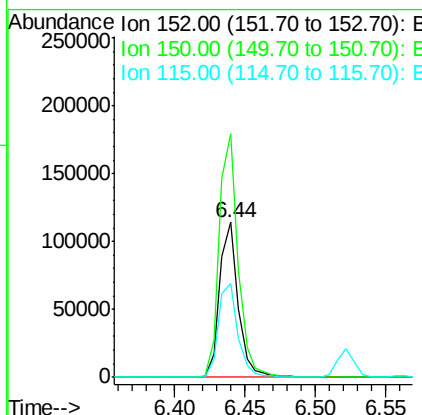
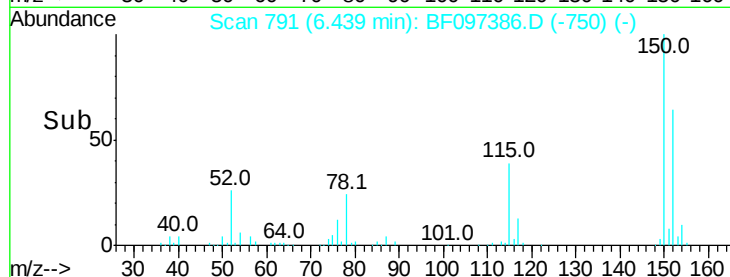
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	126.2	189.2
115	60.7	52.2	78.2

Manual Integrations
 APPROVED

Sohil
 8/7/2017 6:10:18 PM

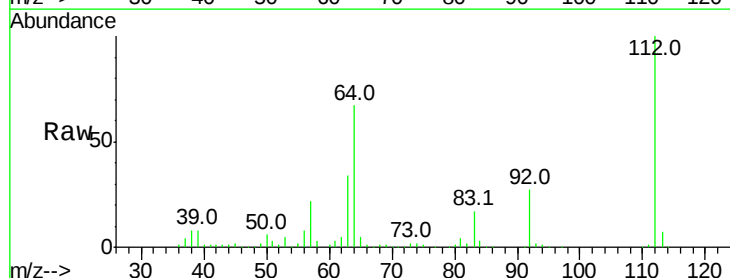


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

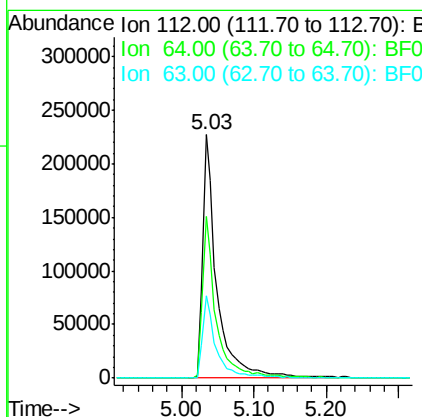
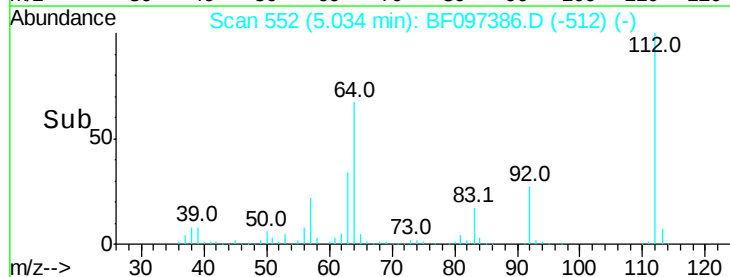


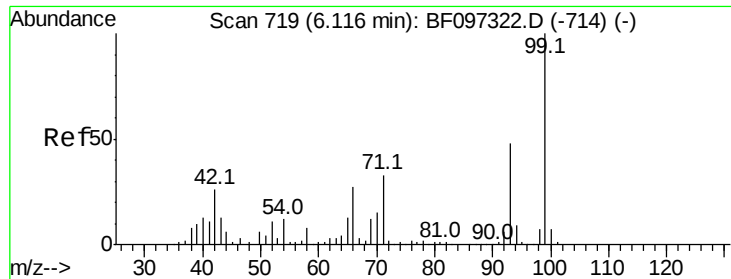
#5
 2-Fluorophenol
 Concen: 44.364 ng
 RT: 5.03 min Scan# 552
 Delta R.T. -0.06 min
 Lab File: BF097386.D
 Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.6	46.0	69.0
63	33.7	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: 52.161 ng

RT: 6.11 min Scan# 735

Delta R.T. -0.06 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA_F

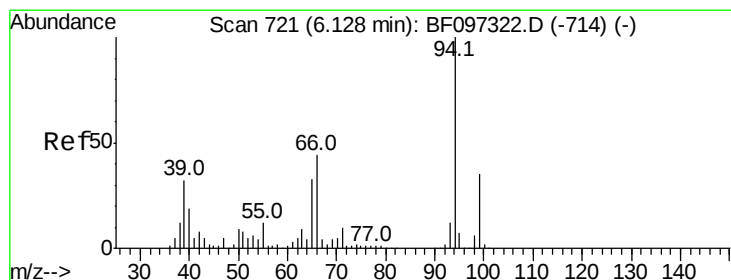
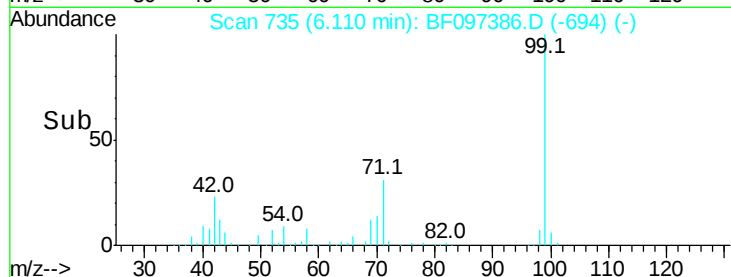
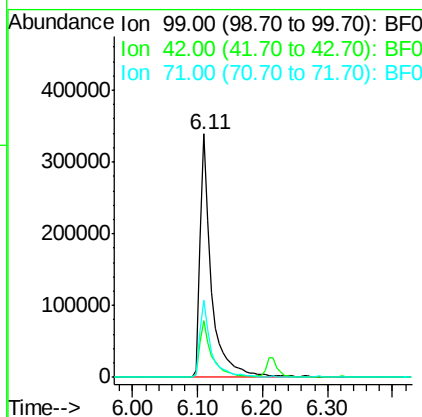
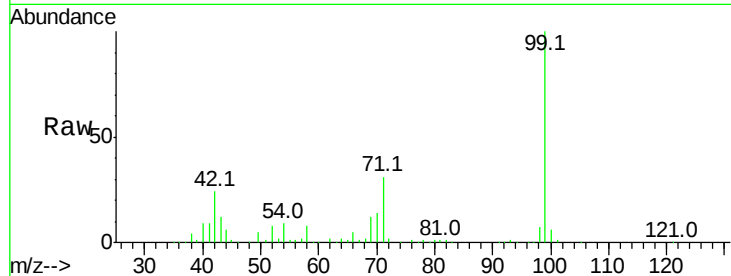
ClientSampled :

TP-3D68DL

Tot Ion:	99	Resp:	414285
Ion Ratio	Lower	Upper	
99	100		
42	23.6	13.5	20.3#
71	31.5	24.5	36.7

Manual Integrations
APPROVED

Sohil
8/7/2017 6:10:18 PM



#10

Phenol

Concen: 3.281 ng

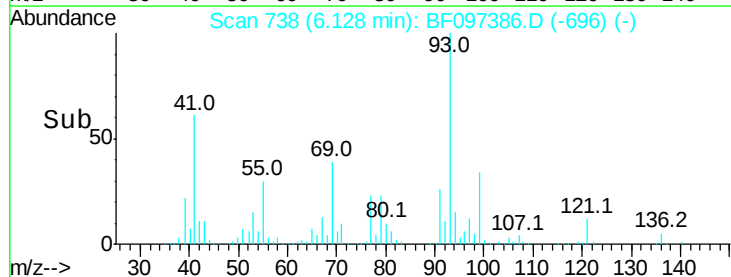
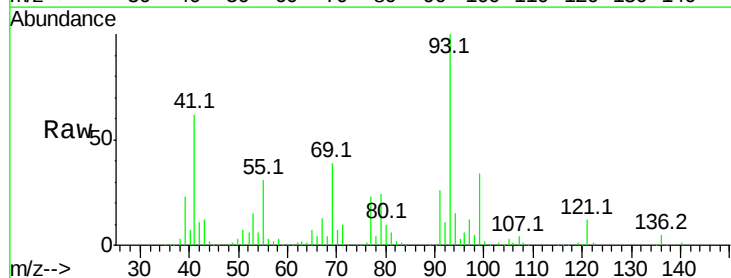
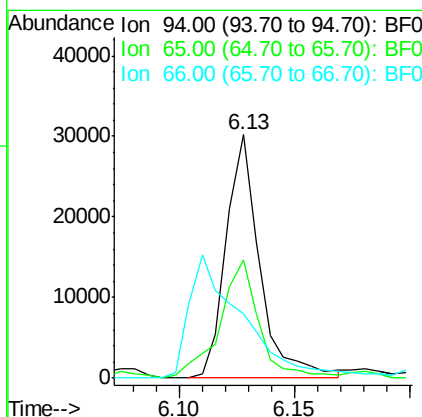
RT: 6.13 min Scan# 738

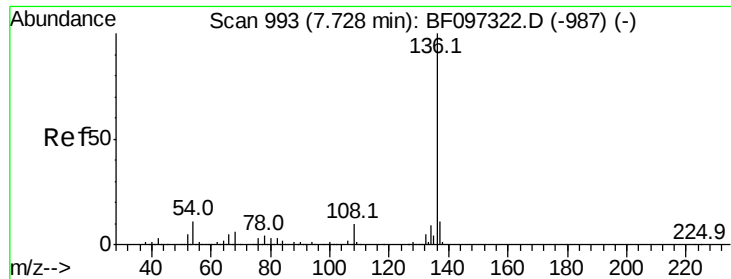
Delta R.T. -0.05 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Tgt Ion:	94	Resp:	30909
Ion Ratio	Lower	Upper	
94	100		
65	48.6	9.9	49.9
66	26.3	23.1	63.1





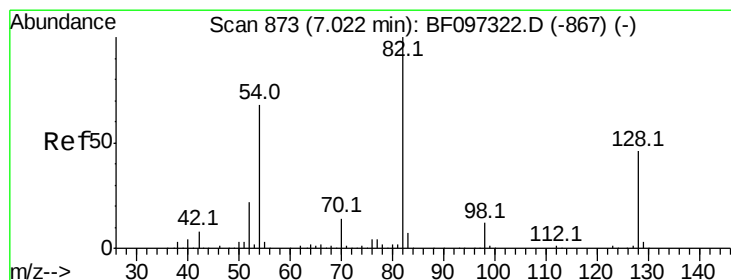
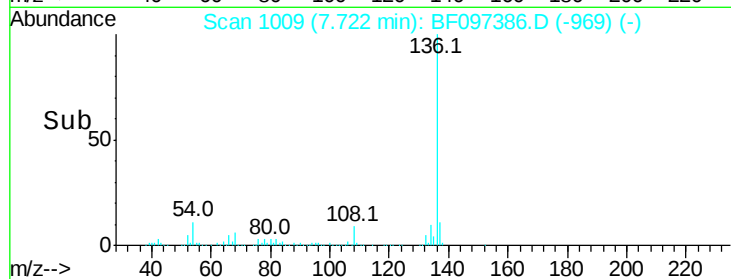
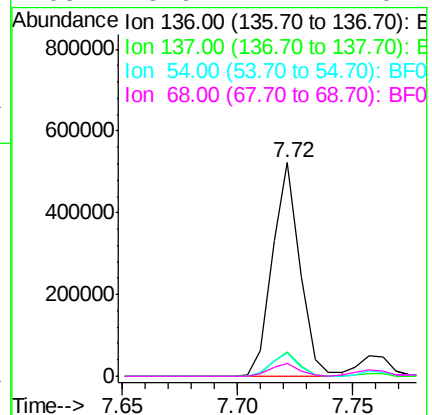
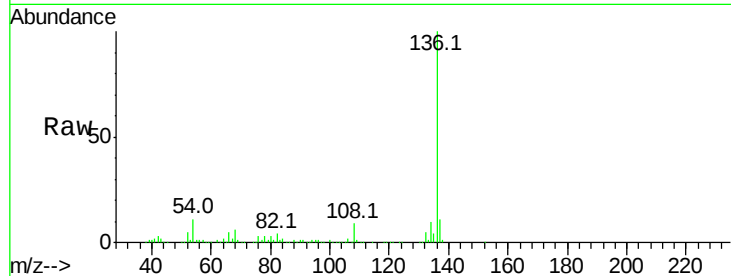
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.72 min Scan# 1009
Delta R.T. -0.06 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Instrument :
BNA_F
ClientSampleId :
TP-3D68DL

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.4	8.5	12.7	
54	10.6	4.9	7.3#	
68	5.9	4.1	6.1	

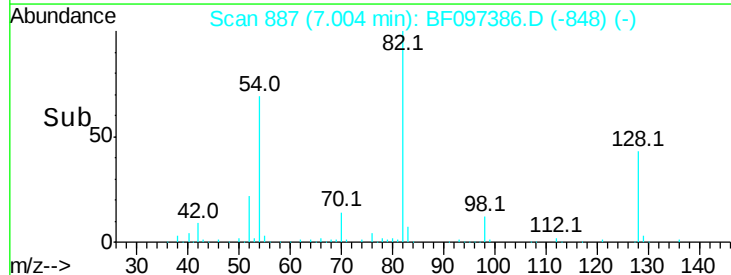
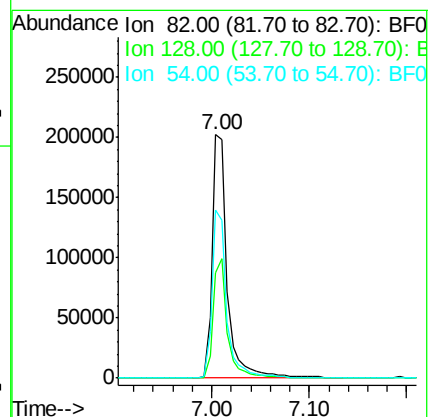
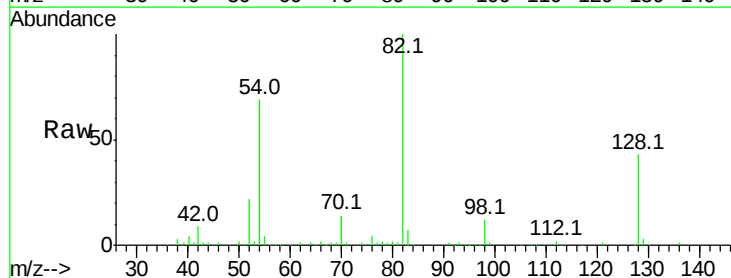
Manual Integrations
APPROVED

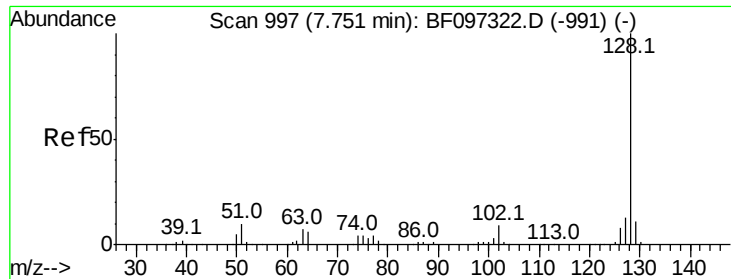
Sohil
8/7/2017 6:10:18 PM



#23
Nitrobenzene-d5
Concen: 29.358 ng
RT: 7.00 min Scan# 887
Delta R.T. -0.07 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.3	34.0	51.0	
54	69.3	42.2	63.2#	





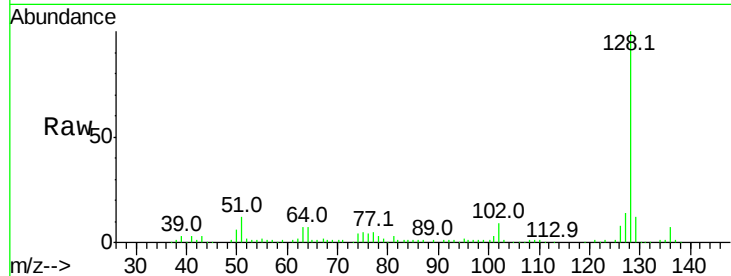
#31
Naphthalene
Concen: 6.816 ng
RT: 7.74 min Scan# 1012
Delta R.T. -0.07 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Instrument :
BNA_F
ClientSampleId :
TP-3D68DL

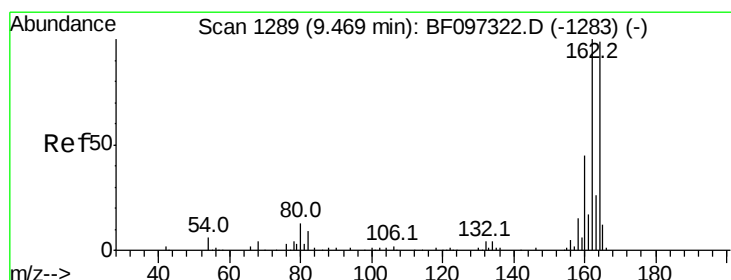
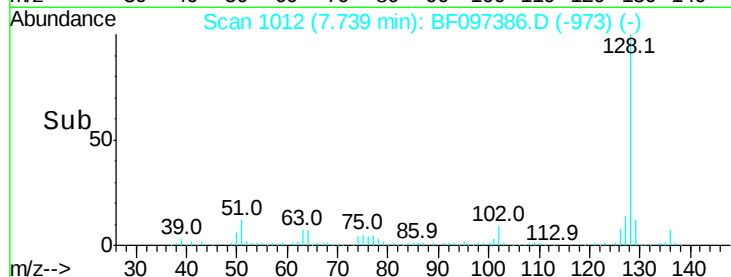
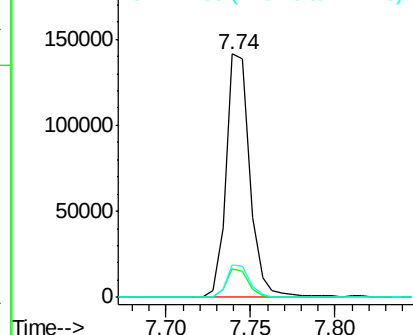
Tot Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.5	9.0	13.6	
127	13.5	10.8	16.2	

Manual Integrations
APPROVED

Sohil
8/7/2017 6:10:18 PM

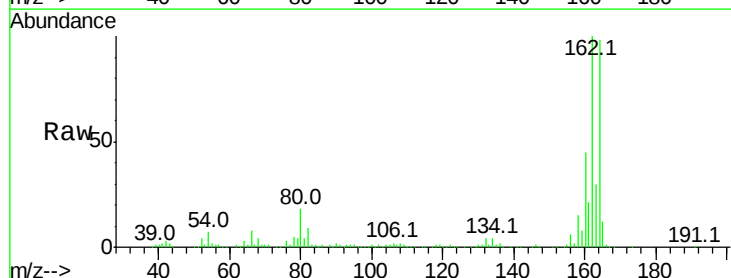


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

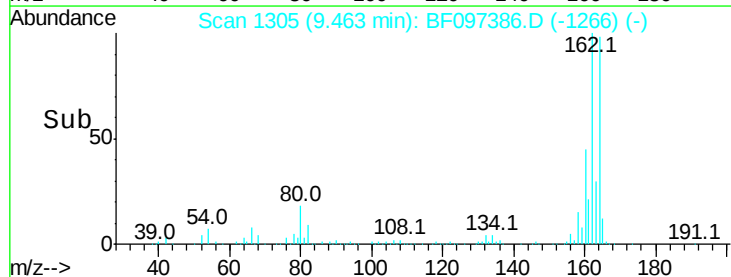
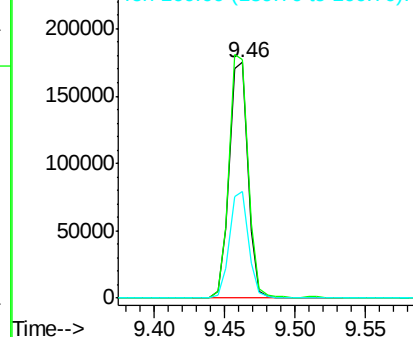


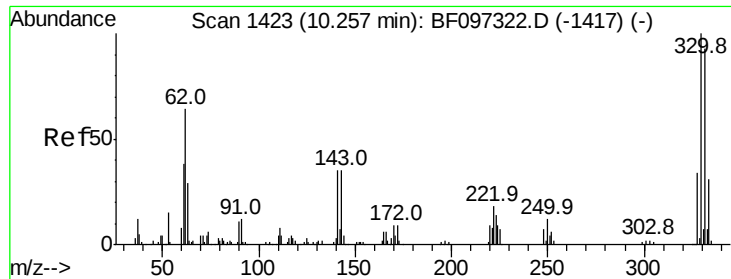
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.46 min Scan# 1305
Delta R.T. -0.07 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.6	82.6	123.8	
160	45.5	36.2	54.2	



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





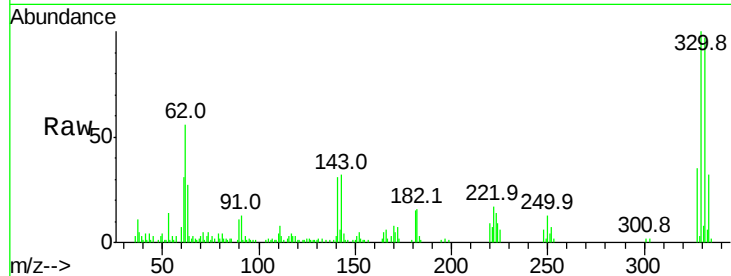
#41
 2,4,6-Tribromophenol
 Concen: 38.840 ng
 RT: 10.25 min Scan# 1439
 Delta R.T. -0.07 min
 Lab File: BF097386.D
 Acq: 5 Aug 2017 5:57

Instrument :
 BNA_F
 ClientSampled :
 TP-3D68DL

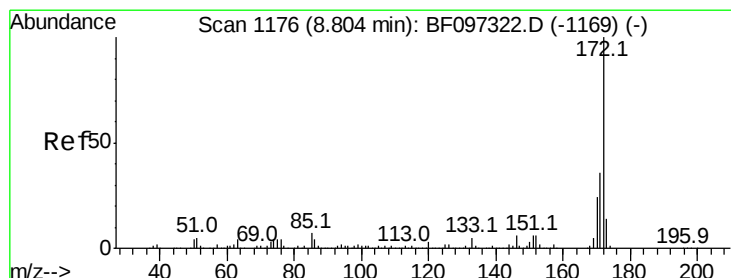
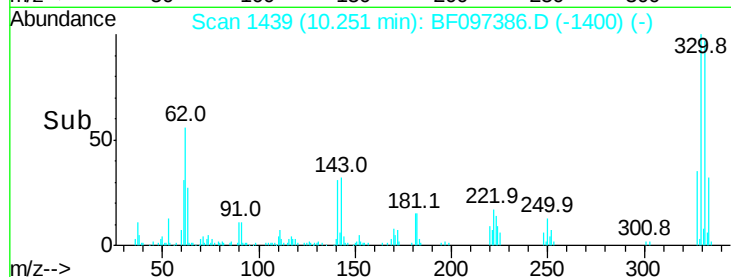
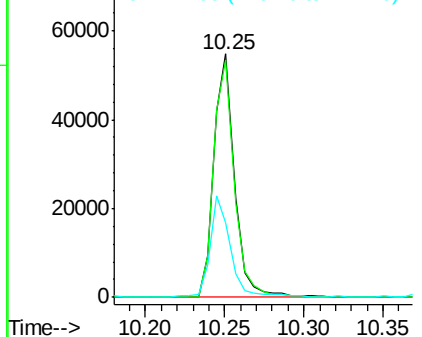
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.9	76.6	115.0	
141	41.9	31.4	47.2	

Manual Integrations
 APPROVED

Sohil
 8/7/2017 6:10:18 PM



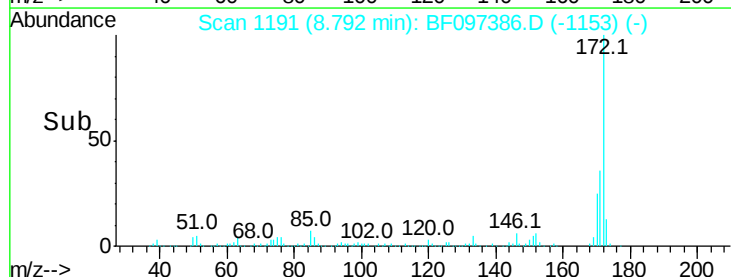
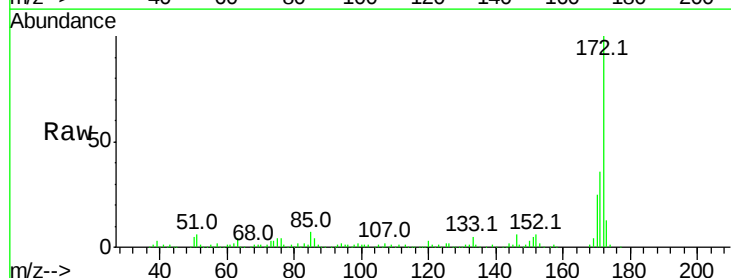
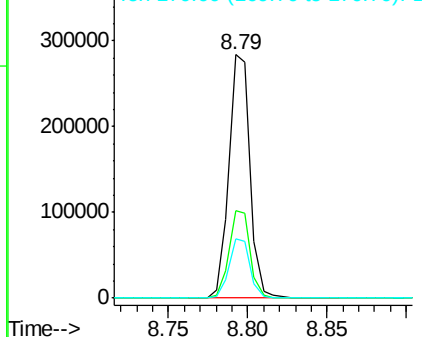
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

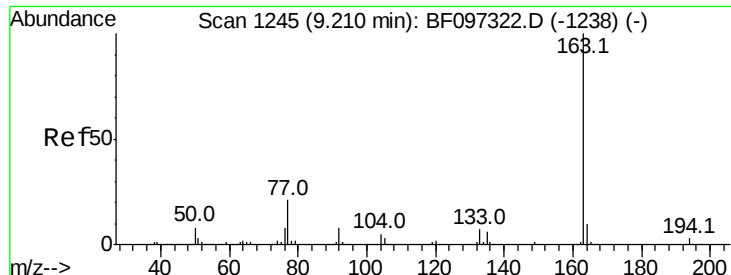


#44
 2-Fluorobiphenyl
 Concen: 27.258 ng
 RT: 8.79 min Scan# 1191
 Delta R.T. -0.08 min
 Lab File: BF097386.D
 Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.9	29.6	44.4	
170	24.5	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





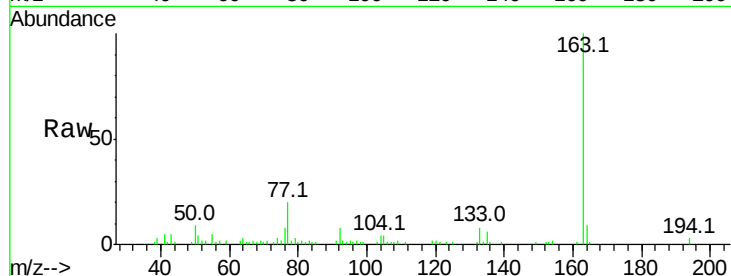
#49
Dimethylphthalate
Concen: 4.389 ng
RT: 9.20 min Scan# 1260
Delta R.T. -0.08 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Instrument :
BNA_F
ClientSampleId :
TP-3D68DL

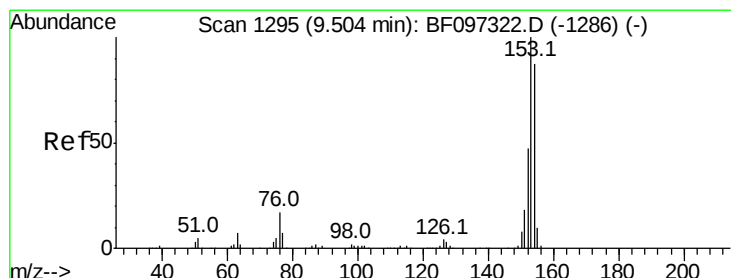
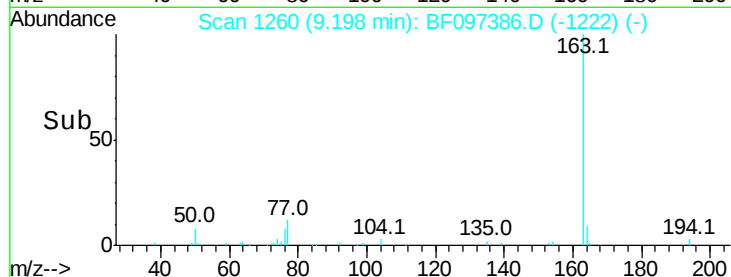
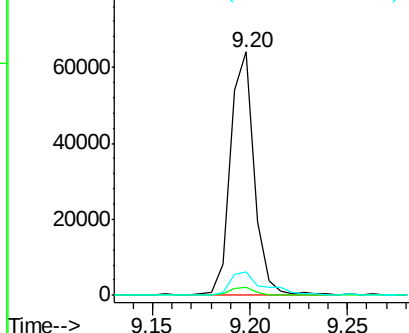
Tot Ion	Ratio	Resp	Lower	Upper
163	100	54317		
194	3.2		2.6	4.0
164	9.4		8.4	12.6

Manual Integrations
APPROVED

Sohil
8/7/2017 6:10:18 PM

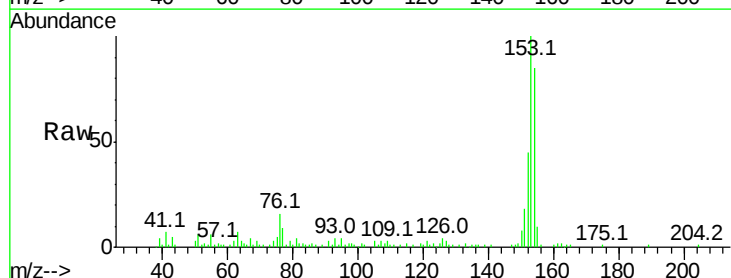


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

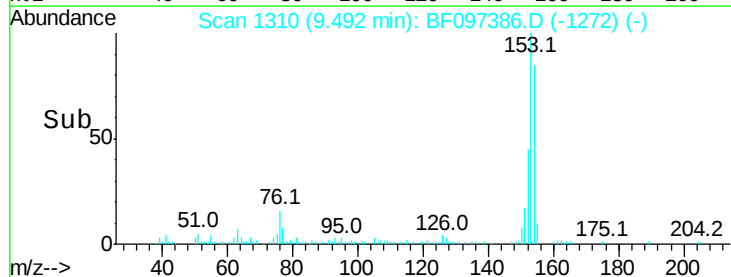
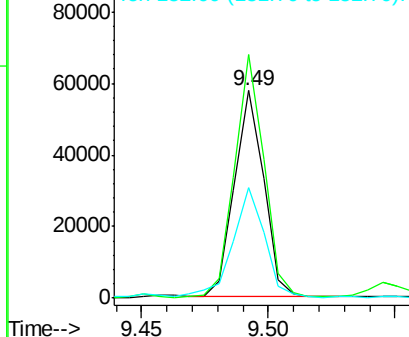


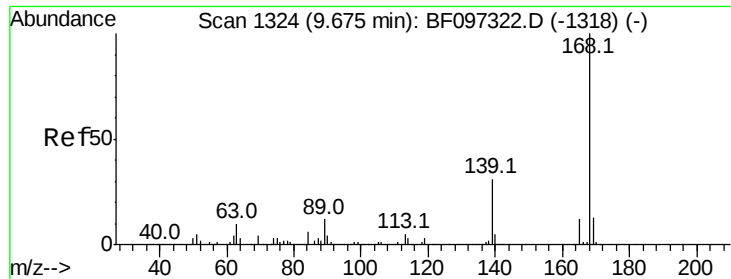
#51
Acenaphthene
Concen: 4.990 ng
RT: 9.49 min Scan# 1310
Delta R.T. -0.08 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	46214		
153	117.5		90.5	135.7
152	53.4		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





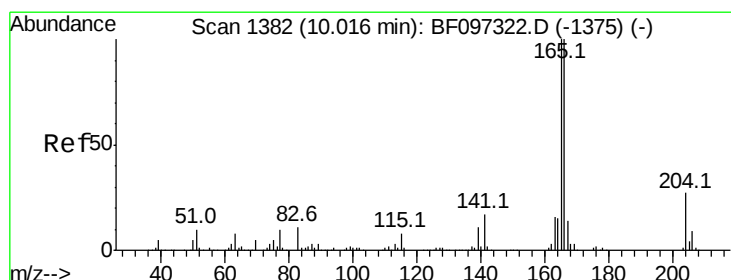
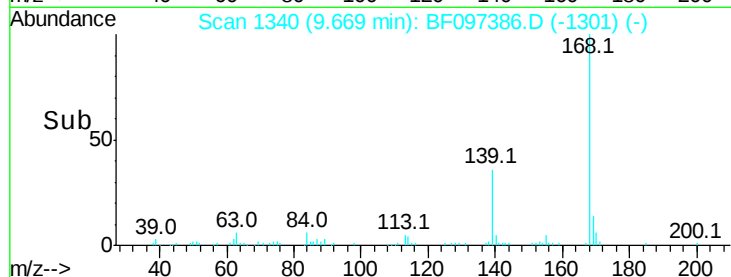
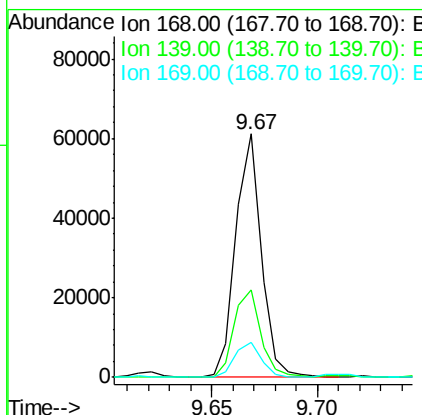
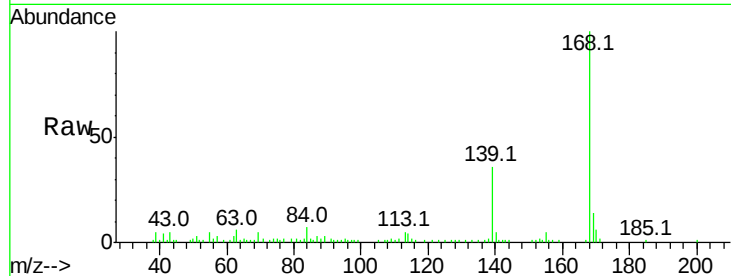
#54
Dibenzenofuran
Concen: 4.151 ng
RT: 9.67 min Scan# 1340
Delta R.T. -0.07 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Instrument :
BNA_F
ClientSampled :
TP-3D68DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.2	30.6	45.8
169	14.2	10.8	16.2

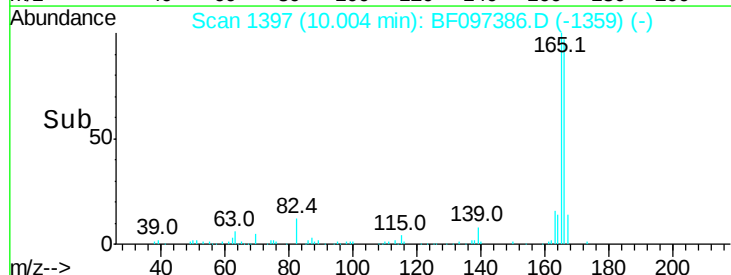
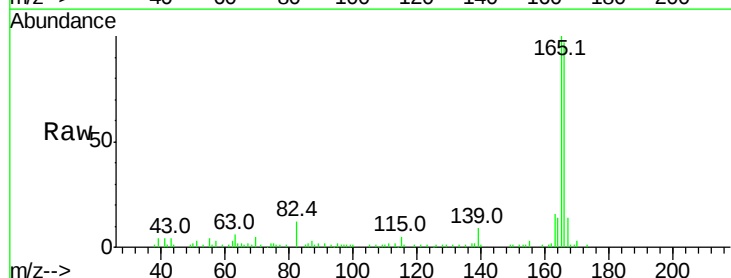
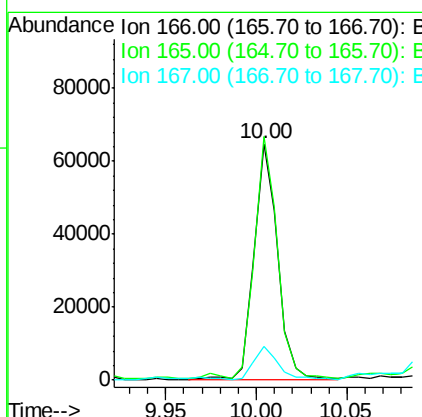
Manual Integrations
APPROVED

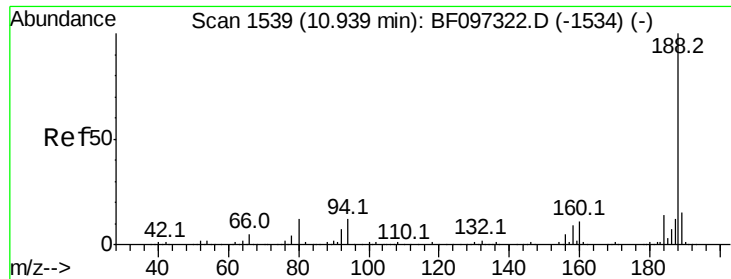
Sohil
8/7/2017 6:10:18 PM



#57
Fluorene
Concen: 6.359 ng
RT: 10.00 min Scan# 1397
Delta R.T. -0.08 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.2	78.8	118.2
167	14.1	10.6	16.0





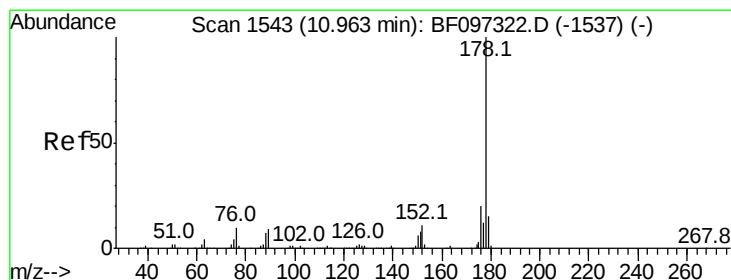
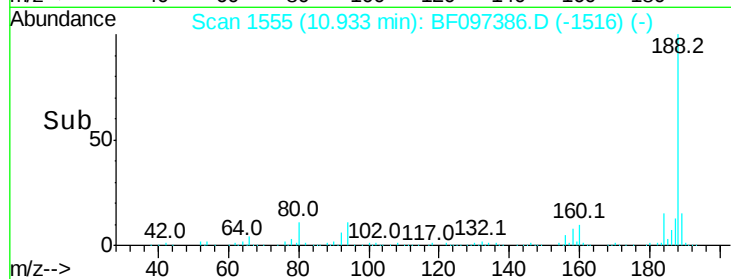
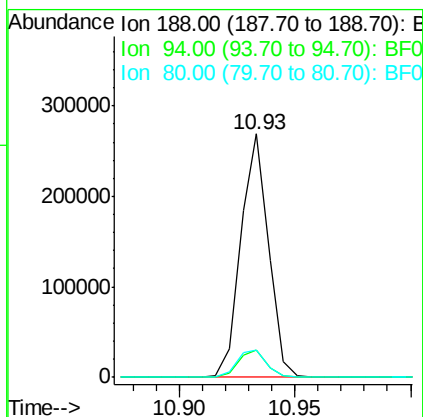
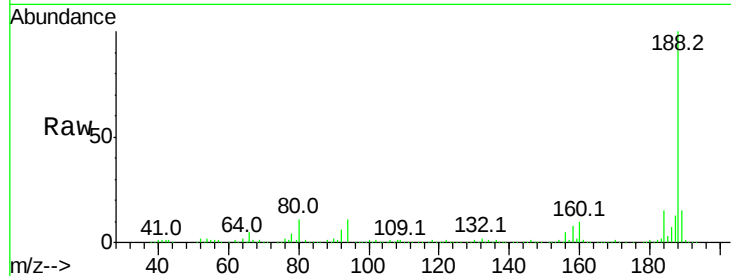
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.93 min Scan# 1555
Delta R.T. -0.07 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Instrument :
BNA_F
ClientSampleId :
TP-3D68DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	224134		
94	11.2		9.4	14.2
80	11.0		10.2	15.2

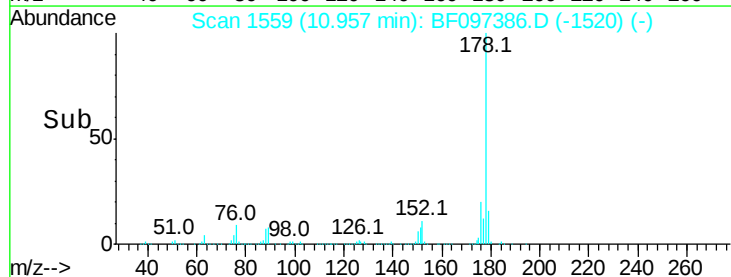
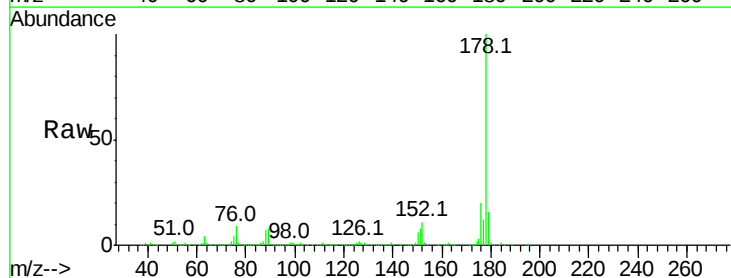
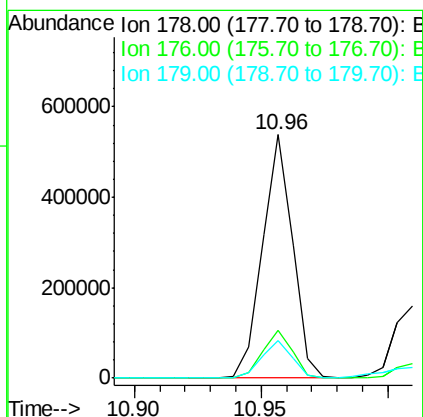
Manual Integrations
APPROVED

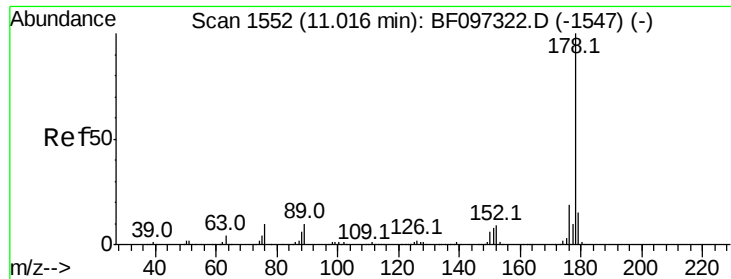
Sohil
8/7/2017 6:10:18 PM



#70
Phenanthrene
Concen: 37.418 ng
RT: 10.96 min Scan# 1559
Delta R.T. -0.07 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	449358		
176	19.6		16.2	24.4
179	15.7		12.6	19.0





#71

Anthracene

Concen: 11.371 ng

RT: 11.01 min Scan# 1568

Delta R.T. -0.07 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA_F

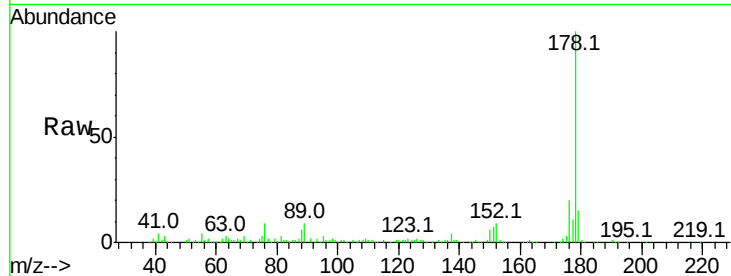
ClientSampleId :

TP-3D68DL

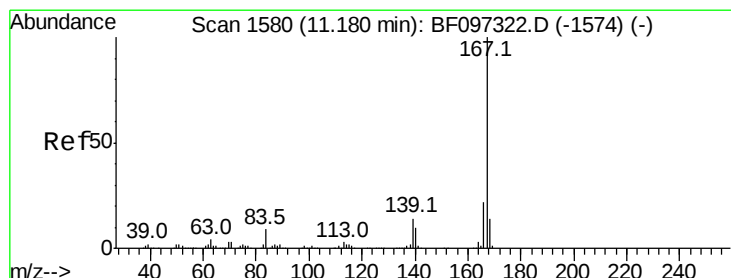
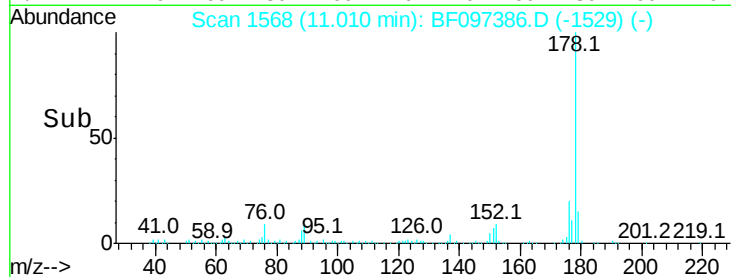
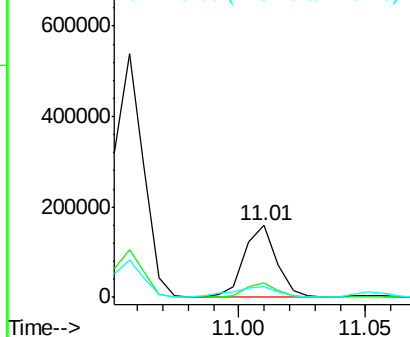
Tot Ion:	178	Resp:	139861
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.8	23.8
179	15.1	12.7	19.1

Manual Integrations
APPROVED

Sohil
8/7/2017 6:10:18 PM



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



#72

Carbazole

Concen: 6.059 ng

RT: 11.17 min Scan# 1596

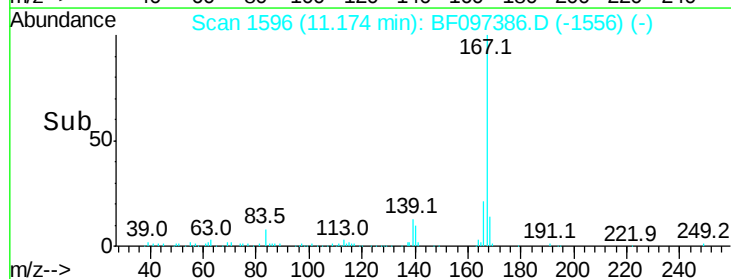
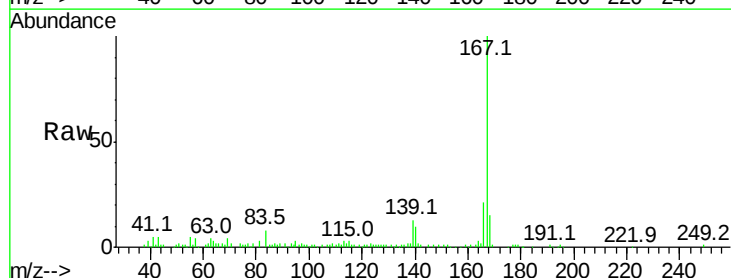
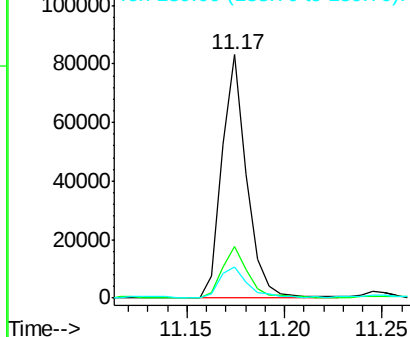
Delta R.T. -0.06 min

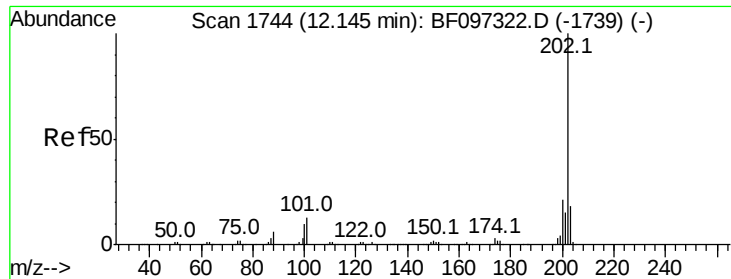
Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Tgt Ion:	167	Resp:	73296
Ion Ratio	Lower	Upper	
167	100		
166	21.4	18.1	27.1
139	13.0	11.7	17.5

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





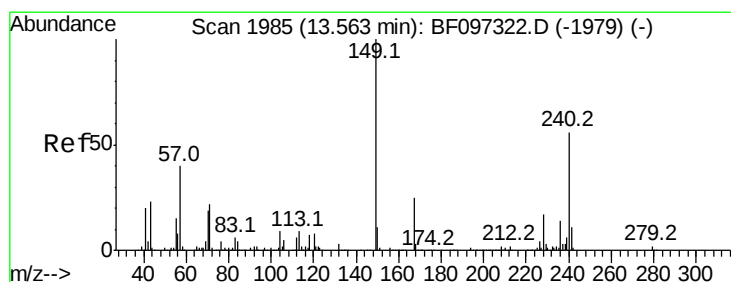
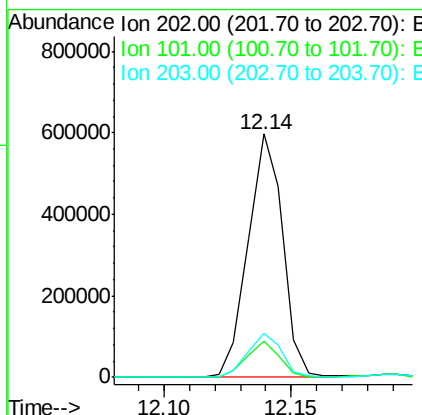
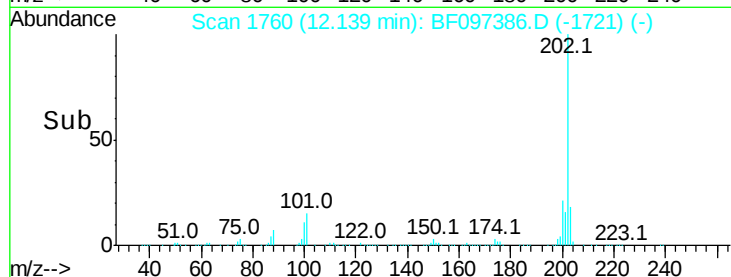
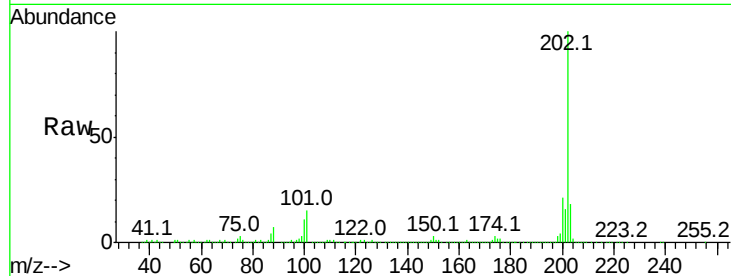
#74
 Fluoranthene
 Concen: 48.034 ng
 RT: 12.14 min Scan# 1760
 Delta R.T. -0.07 min
 Lab File: BF097386.D
 Acq: 5 Aug 2017 5:57

Instrument :
 BNA_F
 ClientSampleId :
 TP-3D68DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	14.7	0.0	33.2
203	17.8	0.0	38.1

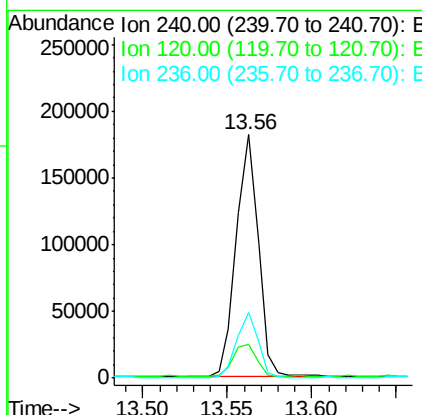
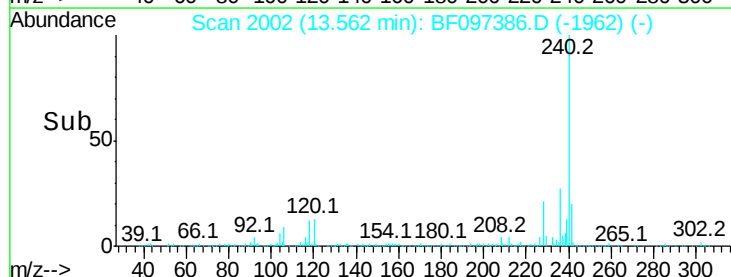
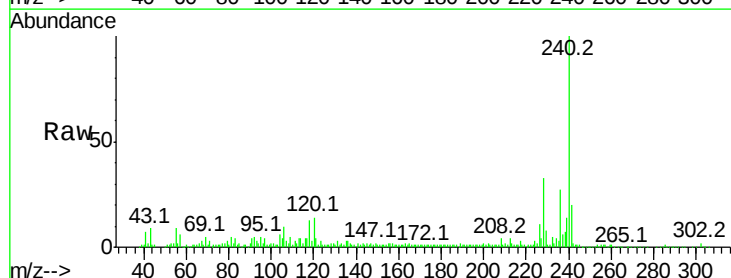
Manual Integrations
 APPROVED

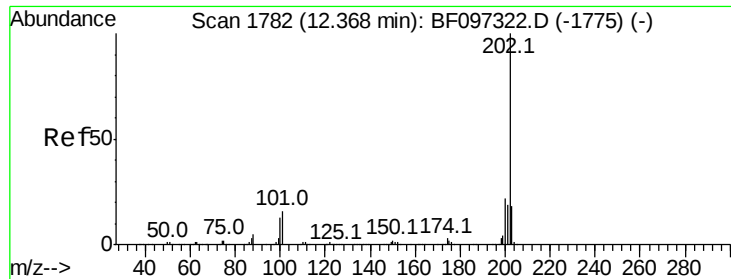
Sohil
 8/7/2017 6:10:18 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.56 min Scan# 2002
 Delta R.T. -0.06 min
 Lab File: BF097386.D
 Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.8	5.8	8.8#
236	26.9	20.5	30.7





#77

Pvrene

Concen: 34.832 ng

RT: 12.37 min Scan# 1799

Delta R.T. -0.06 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA_F

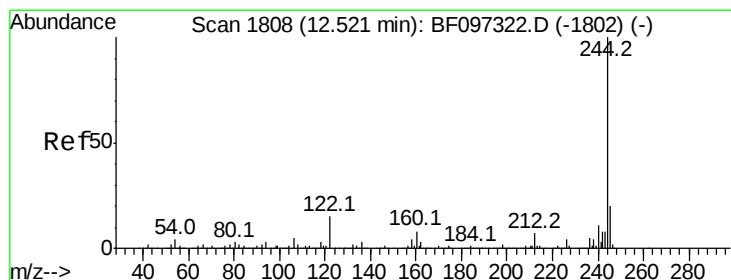
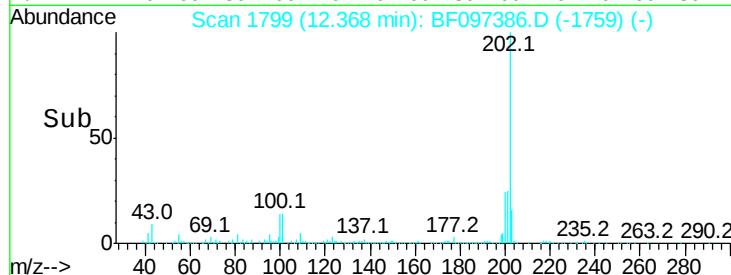
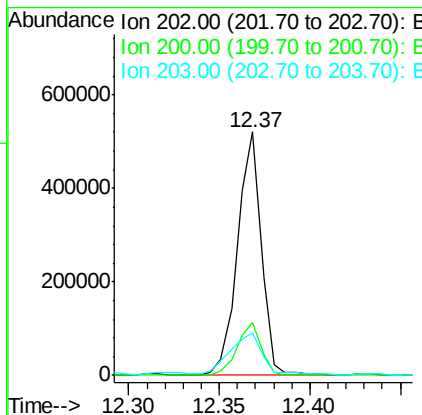
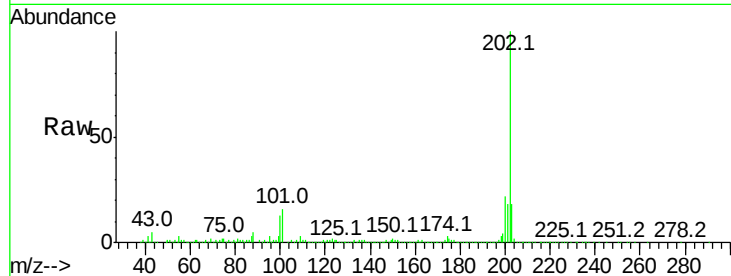
ClientSampleId :

TP-3D68DL

Tot Ion:	202	Resp:	470051
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.6	26.4
203	17.5	14.4	21.6

Manual Integrations
APPROVED

Sohil
8/7/2017 6:10:18 PM



#78

Terphenyl-d14

Concen: 19.810 ng

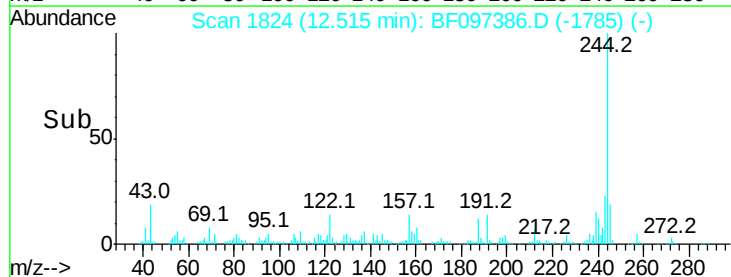
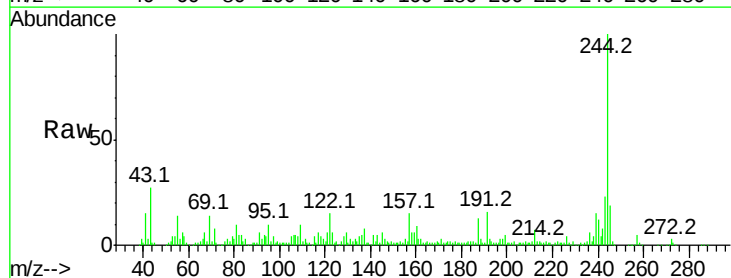
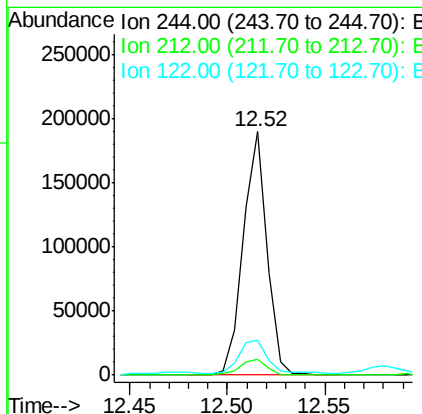
RT: 12.52 min Scan# 1824

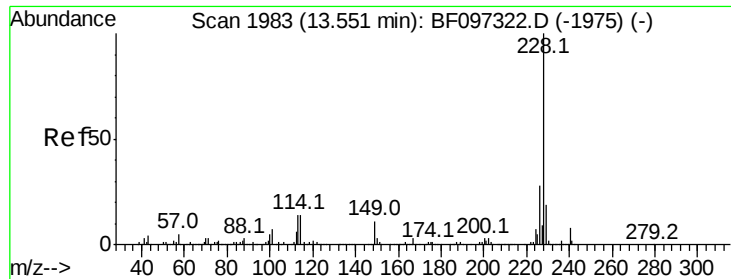
Delta R.T. -0.07 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Tgt Ion:	244	Resp:	160164
Ion Ratio	Lower	Upper	
244	100		
212	6.6	6.0	9.0
122	14.5	10.3	15.5





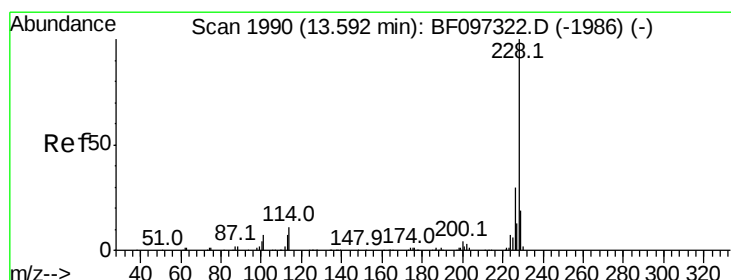
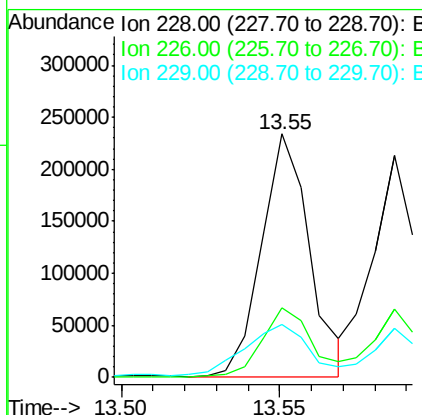
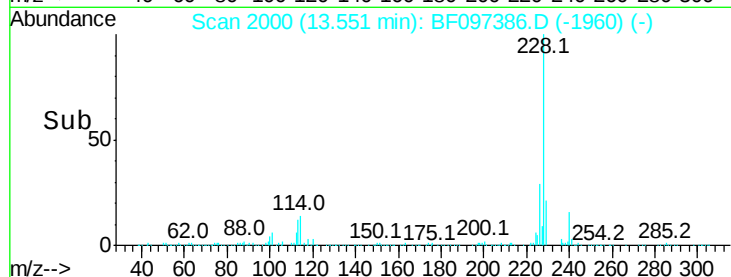
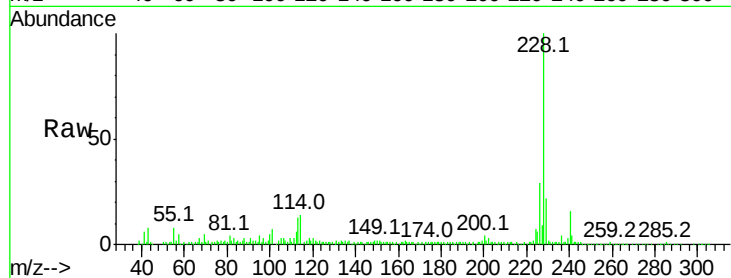
#80
Benzo(a)anthracene
Concen: 22.995 ng
RT: 13.55 min Scan# 2000
Delta R.T. -0.06 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Instrument :
BNA_F
ClientSampleId :
TP-3D68DL

Tot Ion	Ratio	Resp	Lower	Upper
228	100	245259		
226	28.8		22.6	33.8
229	22.0		16.3	24.5

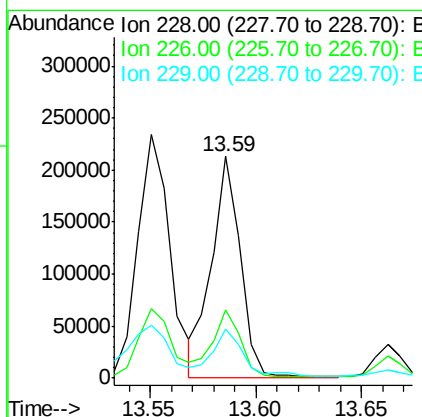
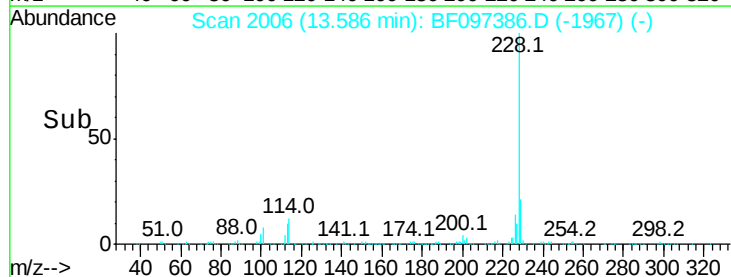
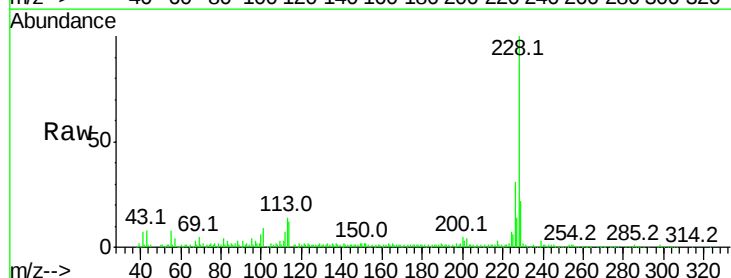
Manual Integrations
APPROVED

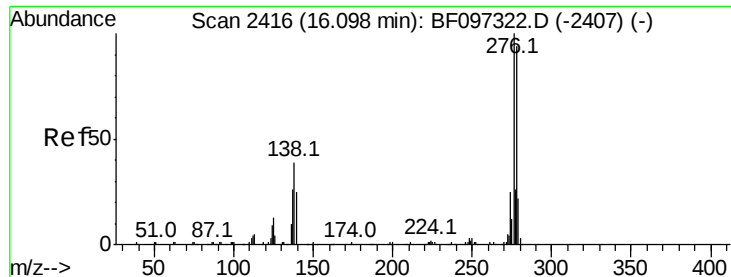
Sohil
8/7/2017 6:10:18 PM



#82
Chrysene
Concen: 19.362 ng
RT: 13.59 min Scan# 2006
Delta R.T. -0.07 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	201658		
226	30.8		24.9	37.3
229	22.1		15.8	23.6





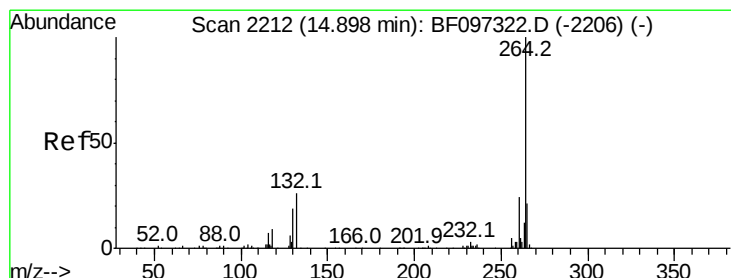
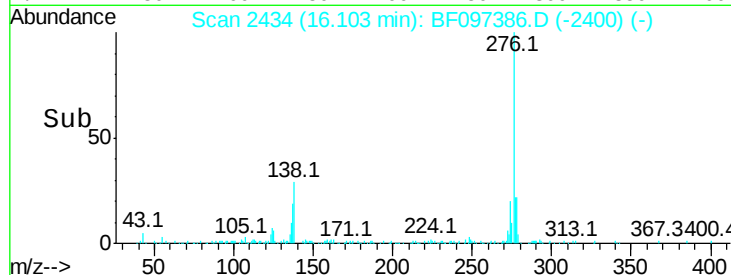
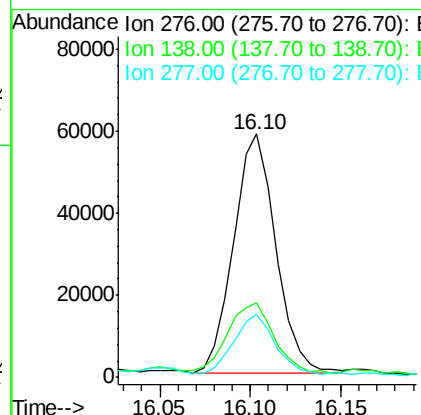
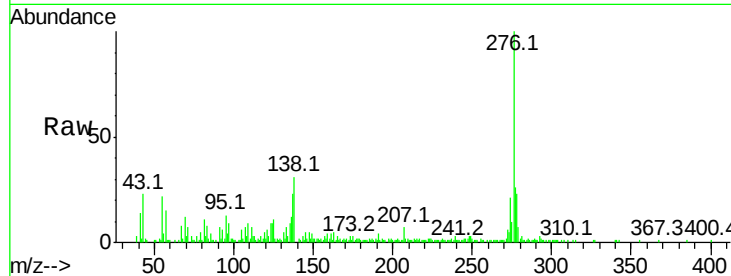
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.609 ng
 RT: 16.10 min Scan# 2434
 Delta R.T. -0.10 min
 Lab File: BF097386.D
 Acq: 5 Aug 2017 5:57

Instrument :
 BNA_F
 ClientSampleId :
 TP-3D68DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	32.9	27.8	41.6
277	24.1	20.2	30.4

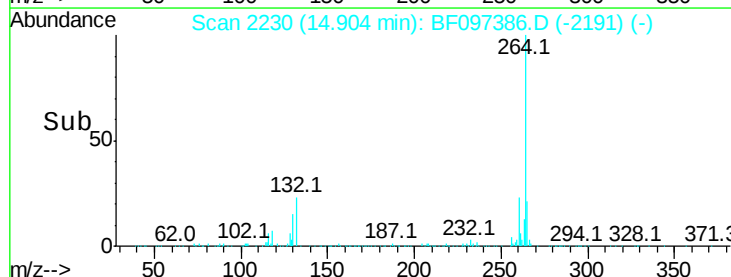
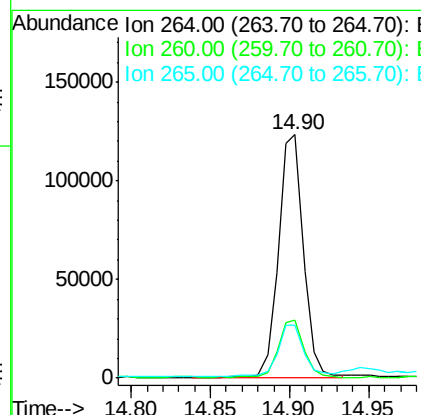
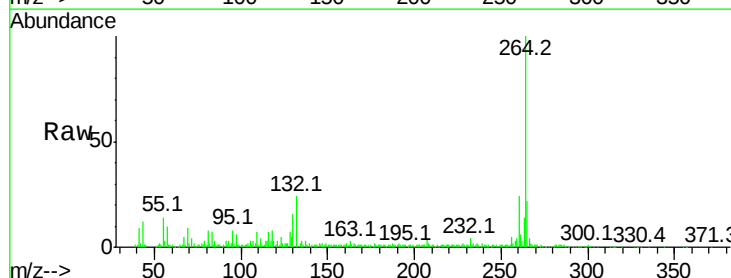
Manual Integrations
 APPROVED

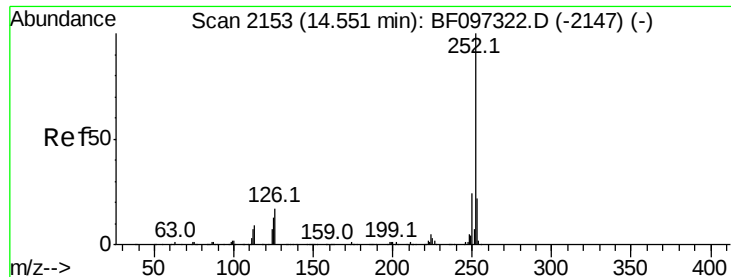
Sohil
 8/7/2017 6:10:18 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 14.90 min Scan# 2230
 Delta R.T. -0.07 min
 Lab File: BF097386.D
 Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	21.7	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 27.920 ng m

RT: 14.55 min Scan# 2170

Delta R.T. -0.06 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA_F

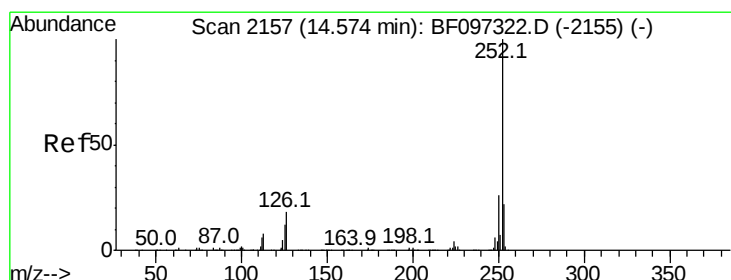
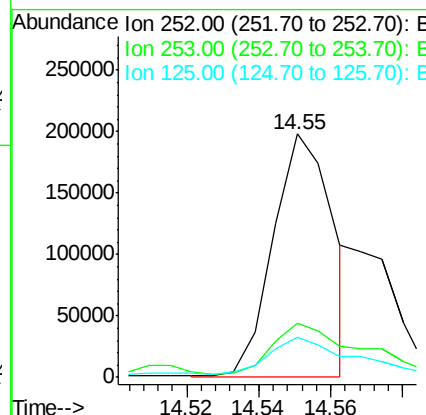
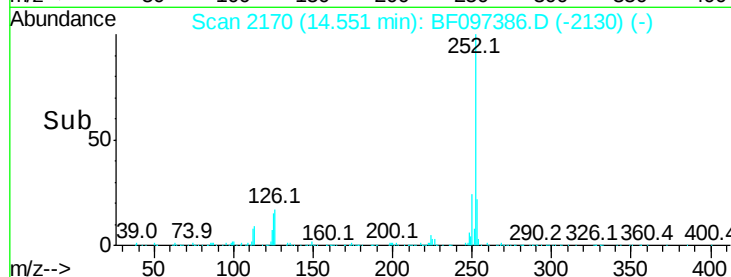
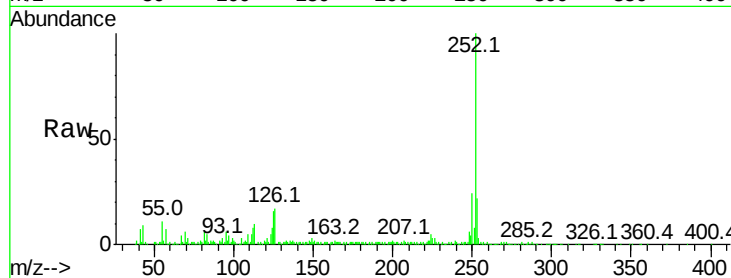
ClientSampled :

TP-3D68DL

Tot Ion:	252	Resp:	228545
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.1	27.1
125	16.3	9.8	14.8#

Manual Integrations
APPROVED

Sohil
8/7/2017 6:10:18 PM



#88

Benzo(k)fluoranthene

Concen: 11.790 ng m

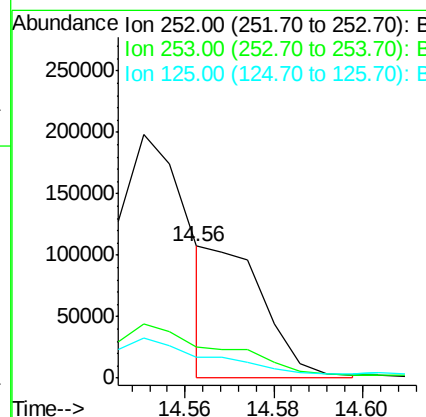
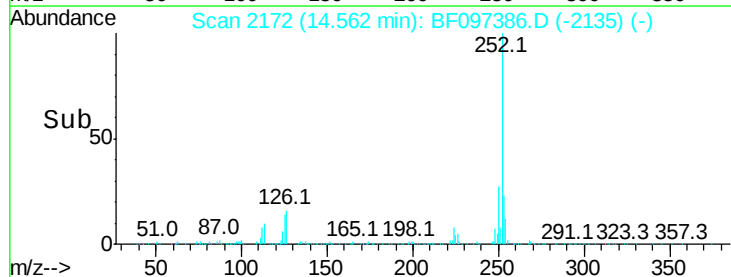
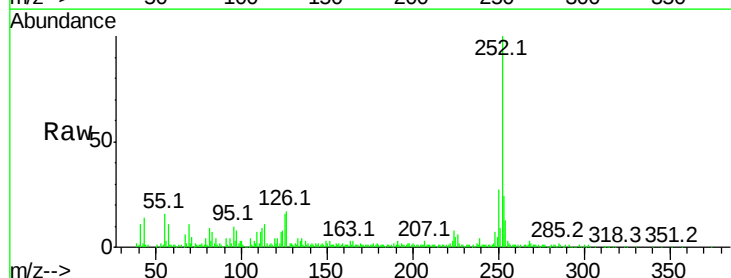
RT: 14.56 min Scan# 2172

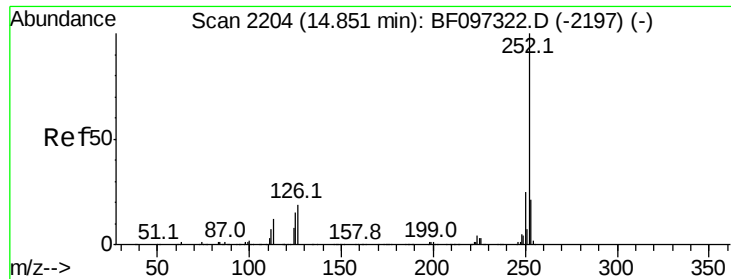
Delta R.T. -0.08 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Tgt Ion:	252	Resp:	91967
Ion Ratio	Lower	Upper	
252	100		
253	24.1	18.4	27.6
125	16.0	13.1	19.7





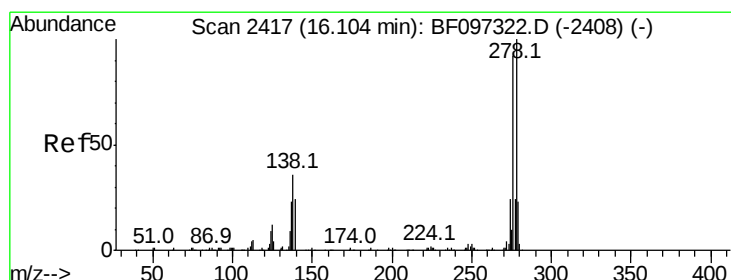
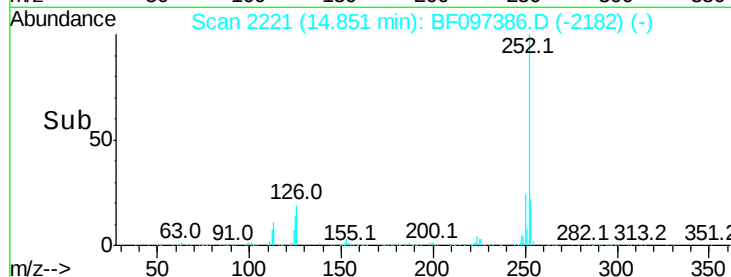
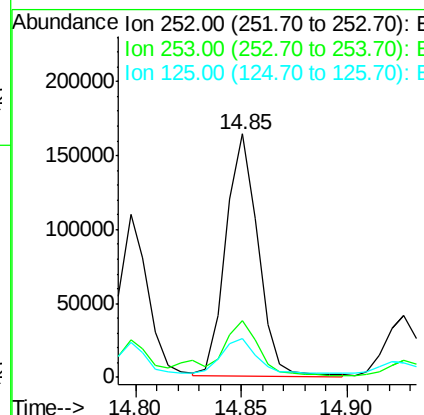
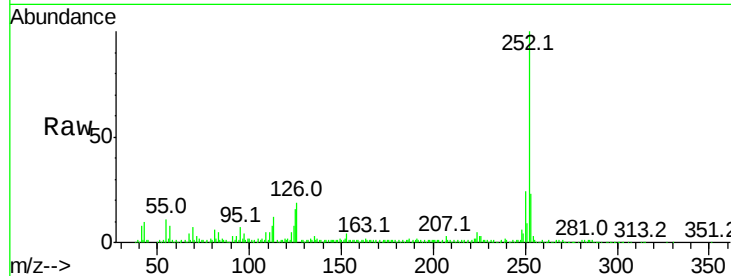
#89
Benzo(a)pyrene
Concen: 23.015 ng
RT: 14.85 min Scan# 2221
Delta R.T. -0.07 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Instrument :
BNA_F
ClientSampled :
TP-3D68DL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	172421		
253	23.1		17.5	26.3
125	15.8		11.0	16.4

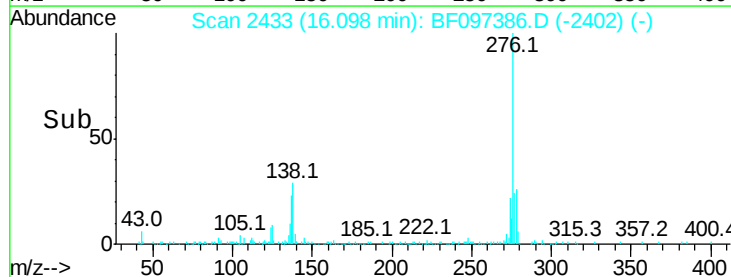
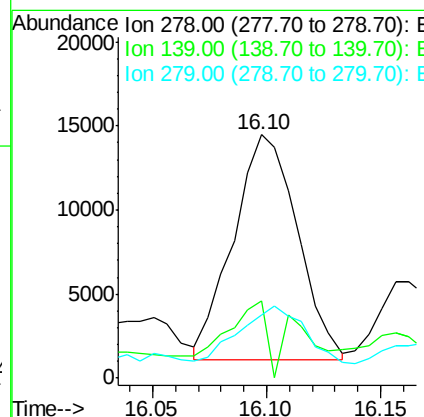
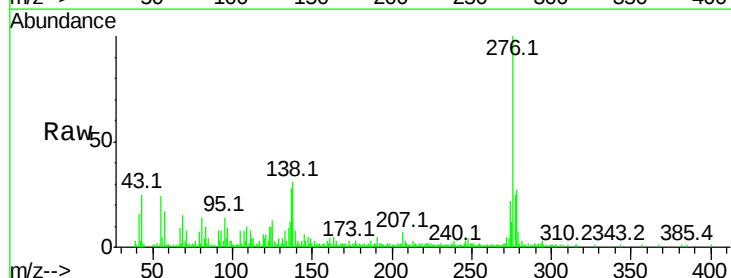
Manual Integrations
APPROVED

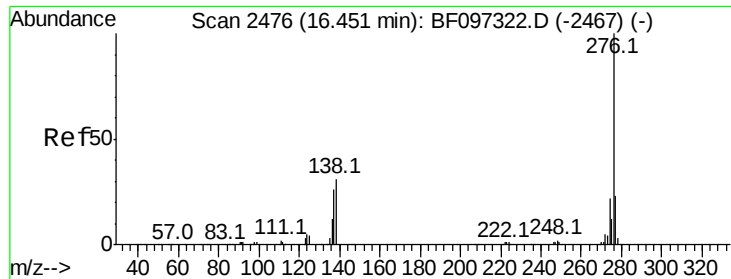
Sohil
8/7/2017 6:10:18 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.253 ng m
RT: 16.10 min Scan# 2433
Delta R.T. -0.12 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	26128		
139	31.5		16.6	24.8#
279	25.8		19.3	28.9





#91
Benzo(a,h,i)perylene
Concen: 13.473 ng
RT: 16.46 min Scan# 2494
Delta R.T. -0.11 min
Lab File: BF097386.D
Acq: 5 Aug 2017 5:57

Instrument :
BNA_F
ClientSampleId :
TP-3D68DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.8	18.6	28.0
138	35.9	25.4	38.0

Manual Integrations
APPROVED

Sohil
8/7/2017 6:10:18 PM

