

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\
 Data File : BF098195.D
 Acq On : 31 Aug 2017 10:44
 Operator : SJ/JU
 Sample : I5024-04DL 10X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-082917-BDL

Manual Integrations
 APPROVED

Sohil
 8/31/2017 7:13:51 PM

Quant Time: Aug 31 13:57:00 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	120784	20.00	ng	-0.02
21) Naphthalene-d8	8.01	136	438407	20.00	ng	-0.02
38) Acenaphthene-d10	9.76	164	166820	20.00	ng	-0.03
63) Phenanthrene-d10	11.24	188	300022	20.00	ng	-0.02
75) Chrysene-d12	13.87	240	251465	20.00	ng	-0.02
86) Perylene-d12	15.29	264	182737	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	83227	10.48	ng	-0.03
7) Phenol-d6	6.36	99	118755	11.01	ng	-0.03
23) Nitrobenzene-d5	7.29	82	62734	7.77	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	14552	10.05	ng	-0.03
44) 2-Fluorobiphenyl	9.08	172	111804	9.85	ng	-0.03
78) Terphenyl-d14	12.82	244	90615	7.51	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	8.03	128	135071	5.935	ng	99
37) 2-Methylnaphthalene	8.72	142	41159	2.950	ng	99
48) Acenaphthylene	9.62	152	62096	3.518	ng	99
51) Acenaphthene	9.79	154	48005	4.312	ng	98
54) Dibenzofuran	9.96	168	85598	5.737	ng	99
57) Fluorene	10.30	166	140288	12.162	ng	98
70) Phenanthrene	11.27	178	817182	51.114	ng	100
71) Anthracene	11.32	178	218061	13.448	ng	97
72) Carbazole	11.47	167	131011	8.512	ng	96
74) Fluoranthene	12.46	202	795095	47.647	ng	99
77) Pyrene	12.68	202	664340	32.301	ng	98
80) Benzo(a)anthracene	13.87	228	294092	19.513	ng	96
82) Chrysene	13.90	228	263464	17.573	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	85812	7.781	ng	# 90
87) Benzo(b)fluoranthene	14.89	252	232619m	20.195	ng	
88) Benzo(k)fluoranthene	14.92	252	98655m	9.116	ng	
89) Benzo(a)pyrene	15.23	252	171943	16.862	ng	99
90) Dibenzo(a,h)anthracene	16.67	278	21337	2.570	ng	# 85
91) Benzo(a,h,i)perylene	17.07	276	75054	8.665	ng	# 90

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

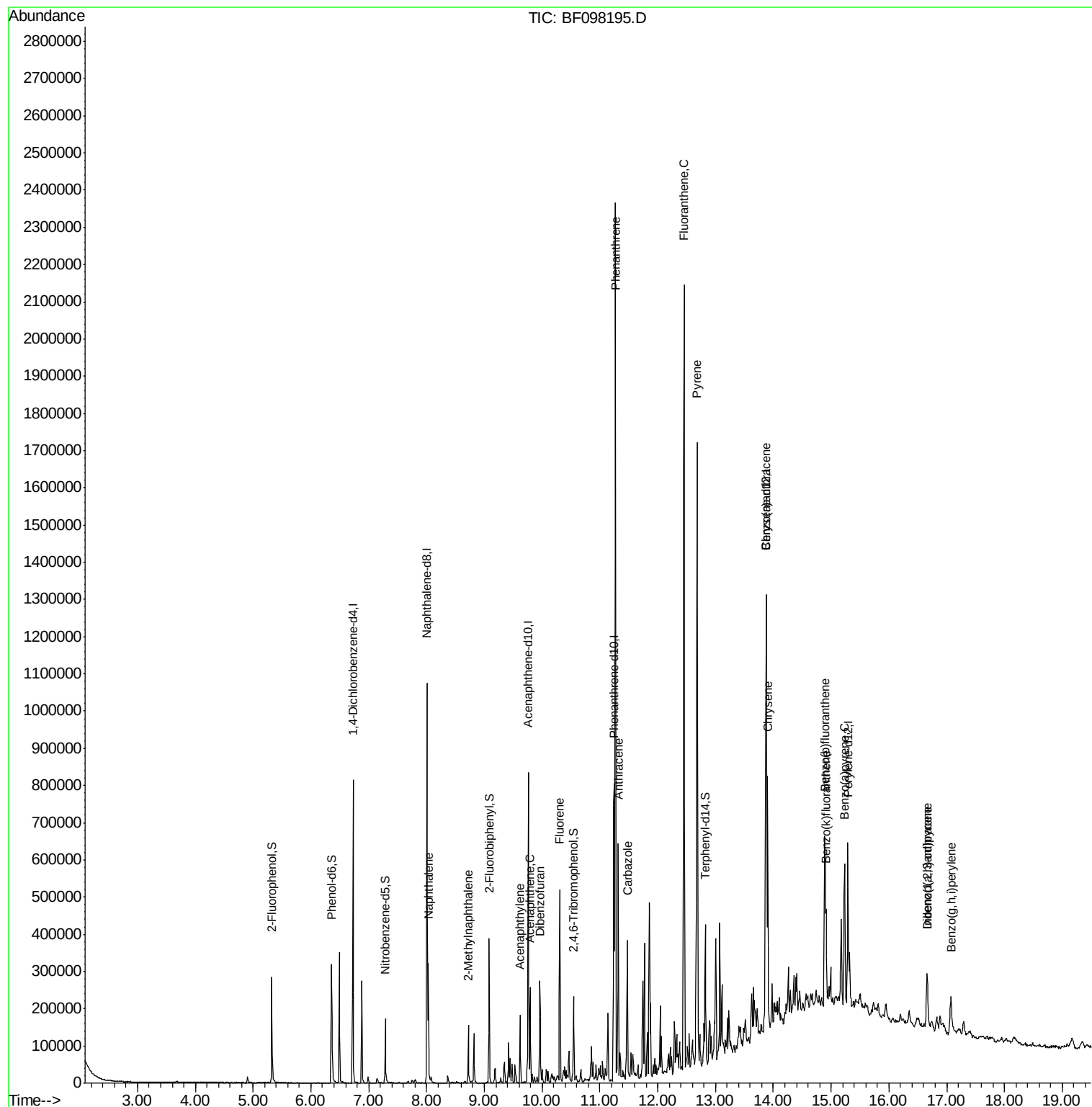
Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\
Data File : BF098195.D
Acq On : 31 Aug 2017 10:44
Operator : SJ/JU
Sample : I5024-04DL 10X
Misc :
ALS Vial : 36 Sample Multiplier: 1

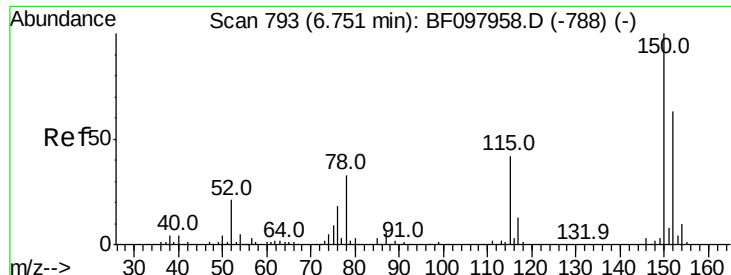
Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:51 PM

Quant Time: Aug 31 13:57:00 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 21 15:59:04 2017
Response via : Initial Calibration





#1

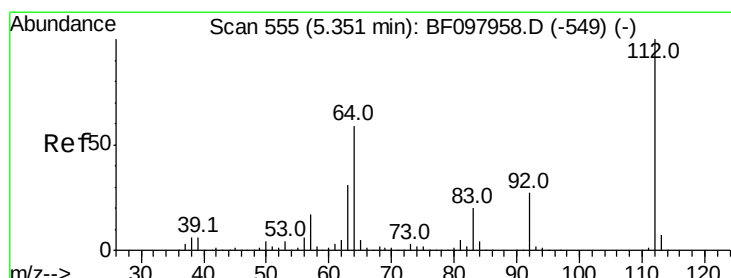
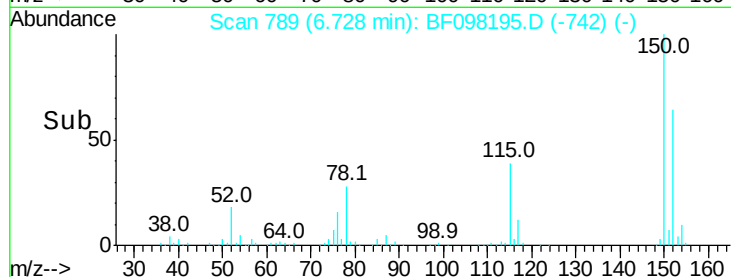
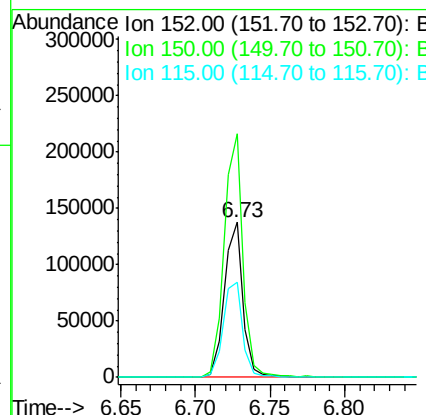
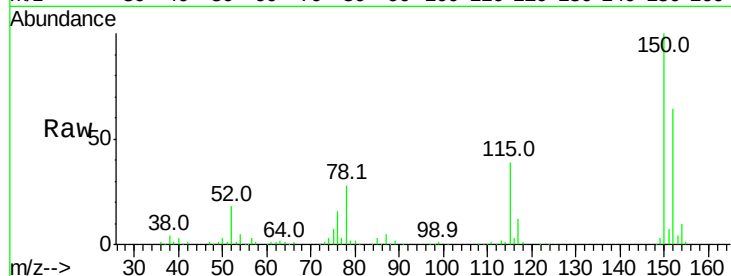
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.02 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	126.2	189.2
115	61.5	52.2	78.2

Manual Integrations
APPROVED

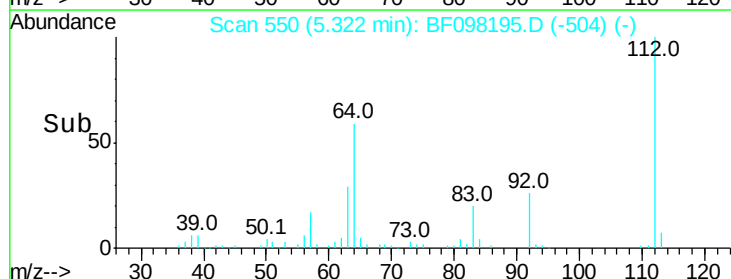
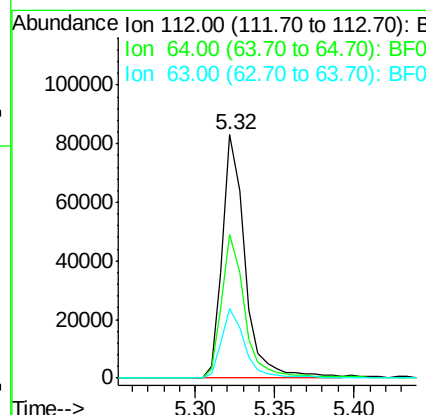
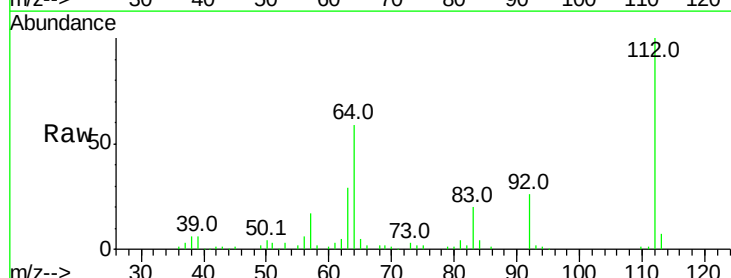
Sohil
8/31/2017 7:13:51 PM

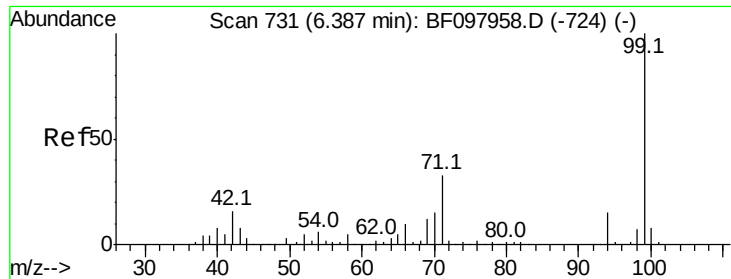


#5

2-Fluorophenol
Concen: 10.481 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.03 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.3	46.0	69.0
63	28.7	23.4	35.0





#7

Phenol-d6

Concen: 11.007 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Instrument :

BNA_F

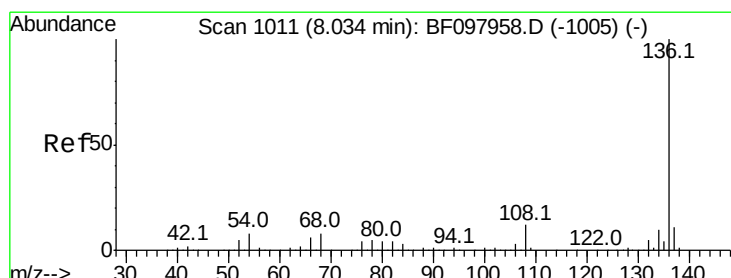
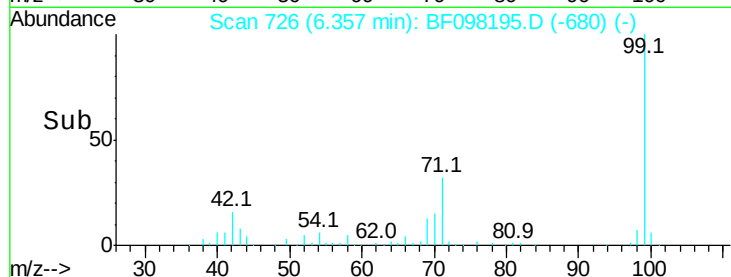
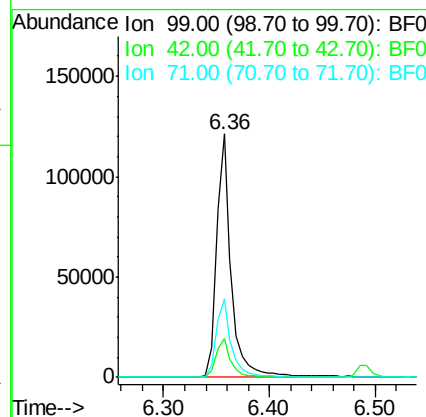
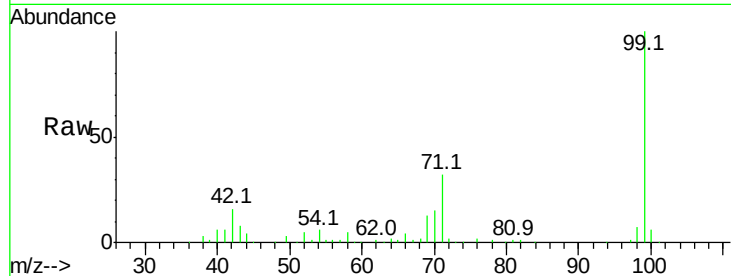
ClientSampleId :

CL-01-082917-BDL

Tot Ion:	99	Resp:	118755
Ion Ratio	Lower	Upper	
99	100		
42	15.7	13.5	20.3
71	32.4	24.5	36.7

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:51 PM



#21

Naphthalene-d8

Concen: 20.000 ng

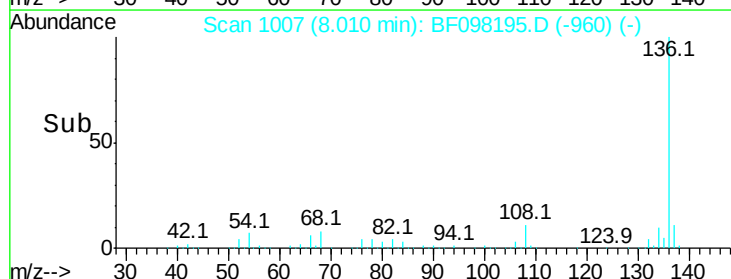
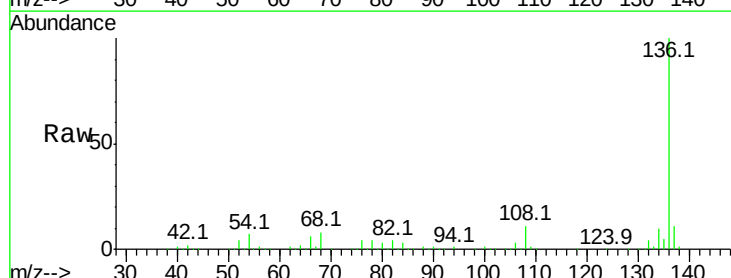
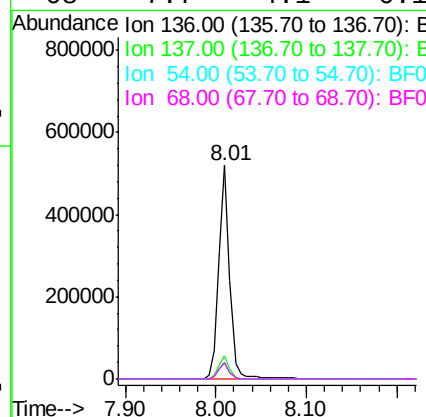
RT: 8.01 min Scan# 1007

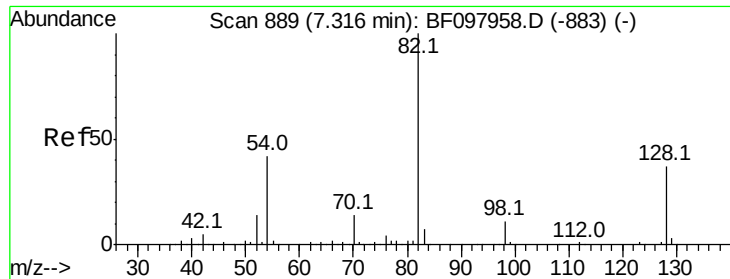
Delta R.T. -0.02 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Tgt Ion:	136	Resp:	438407
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	7.4	4.9	7.3#
68	7.7	4.1	6.1#





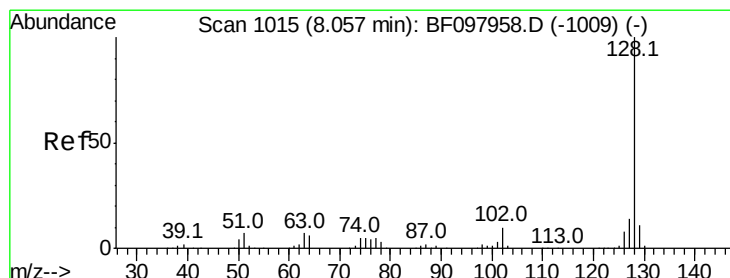
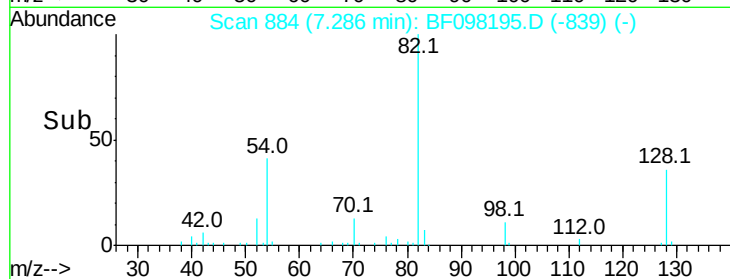
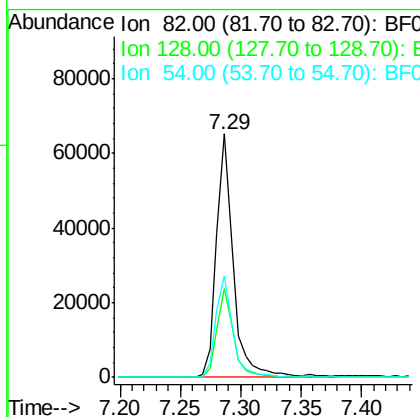
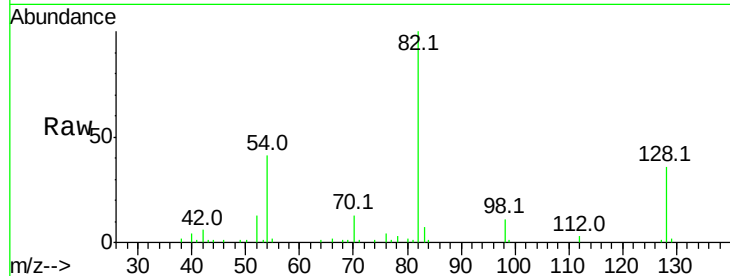
#23
Nitrobenzene-d5
Concen: 7.774 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.04 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	36.4	34.0	51.0
54	41.5	42.2	63.2#

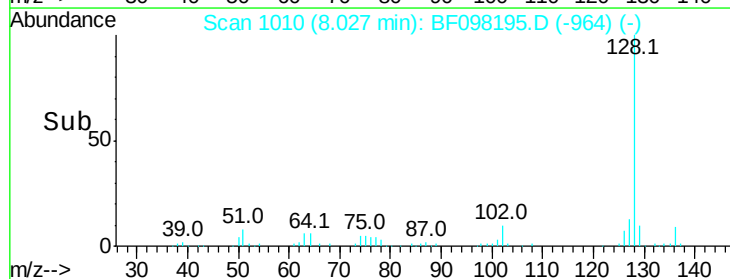
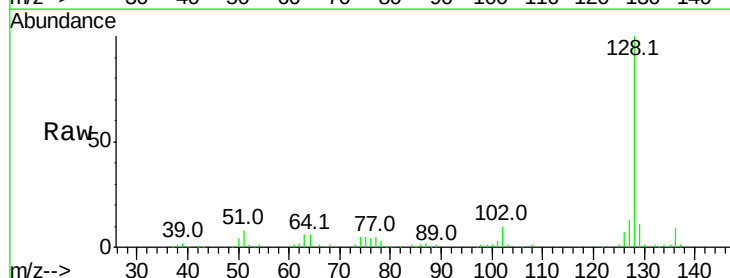
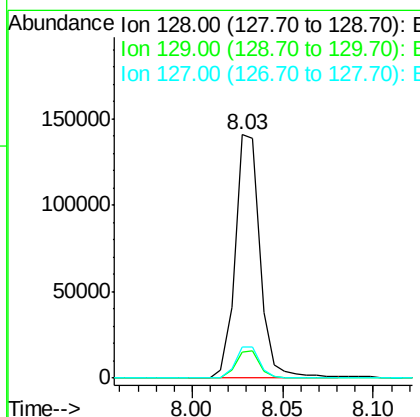
Manual Integrations
APPROVED

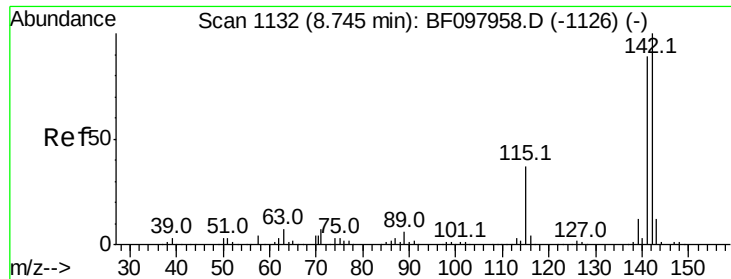
Sohil
8/31/2017 7:13:51 PM



#31
Naphthalene
Concen: 5.935 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.03 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	12.8	10.8	16.2





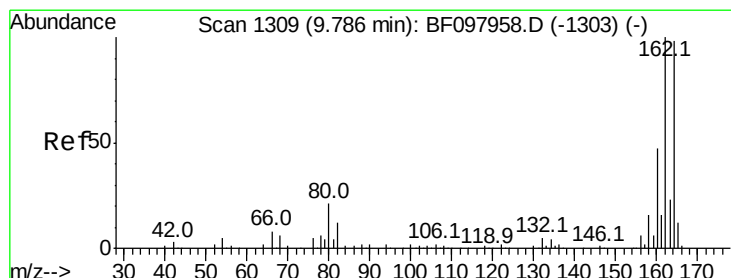
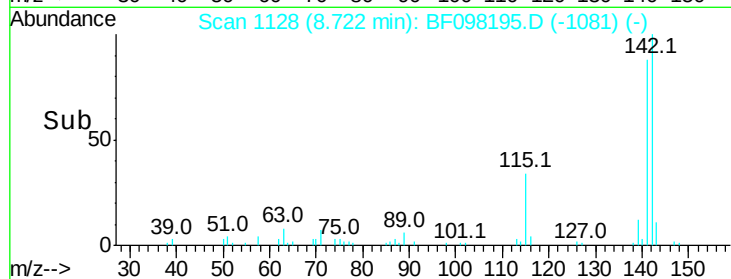
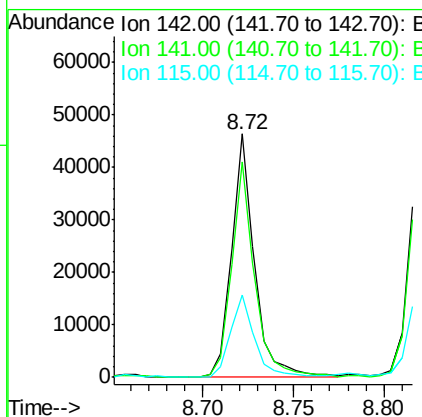
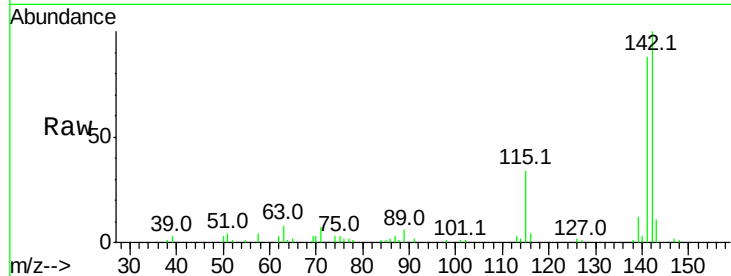
#37
 2-Methylnaphthalene
 Concen: 2.950 ng
 RT: 8.72 min Scan# 1128
 Delta R.T. -0.02 min
 Lab File: BF098195.D
 Acq: 31 Aug 2017 10:44

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-082917-BDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.3	106.9
115	33.7	27.1	40.7

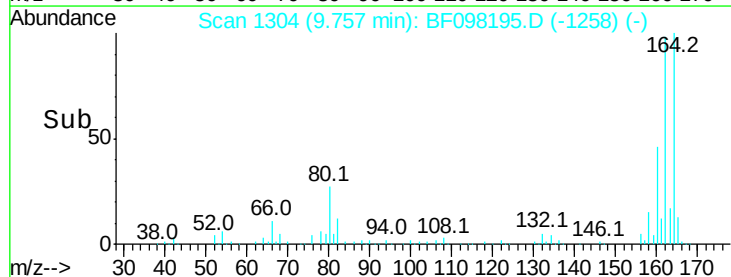
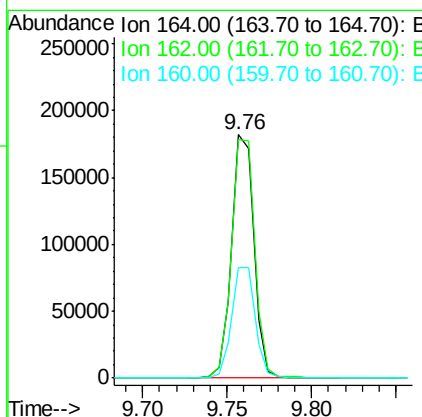
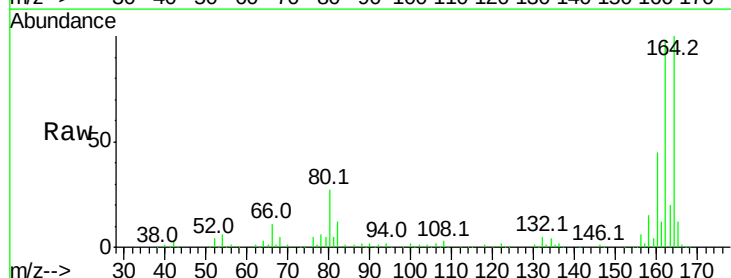
Manual Integrations
 APPROVED

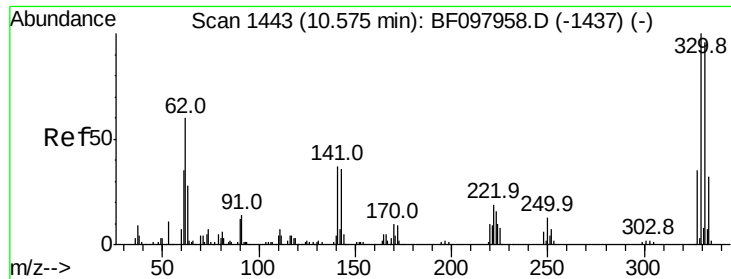
Sohil
 8/31/2017 7:13:51 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.03 min
 Lab File: BF098195.D
 Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.9	82.6	123.8
160	45.4	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 10.054 ng

RT: 10.54 min Scan# 1438

Delta R.T. -0.03 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Instrument :

BNA_F

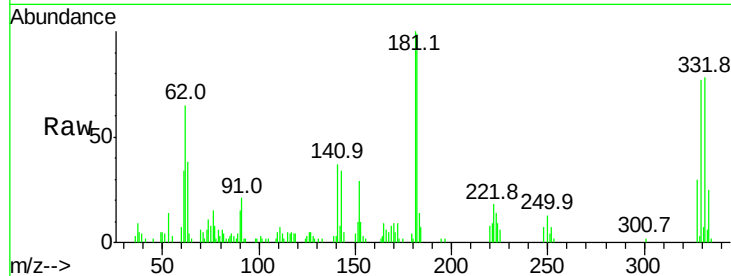
ClientSampleId :

CL-01-082917-BDL

Tot Ion:	330	Resp:	14552
Ion Ratio	Lower	Upper	
330	100		
332	97.0	76.6	115.0
141	47.6	31.4	47.2#

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:51 PM

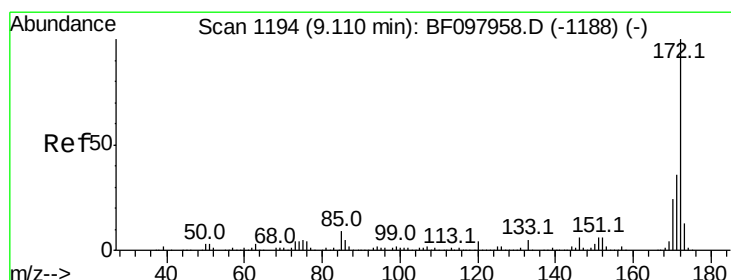
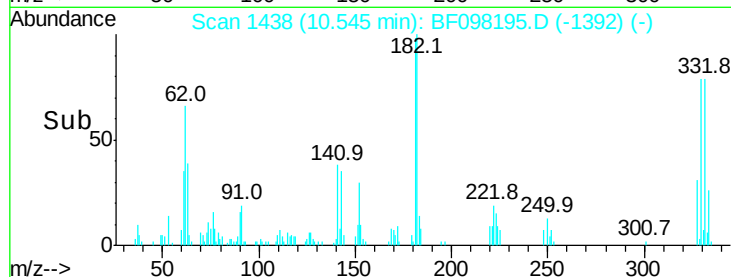
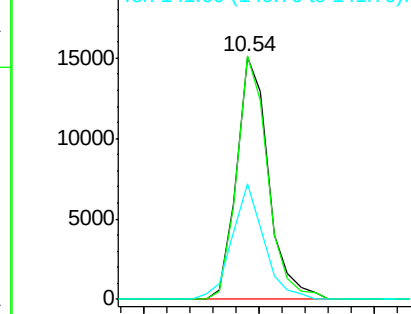


Abundance

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: 9.847 ng

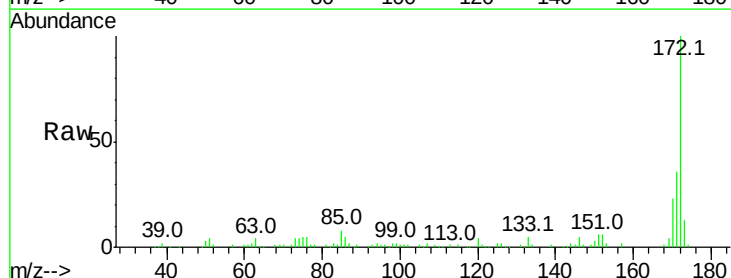
RT: 9.08 min Scan# 1189

Delta R.T. -0.03 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Tgt Ion:	172	Resp:	111804
Ion Ratio	Lower	Upper	
172	100		
171	35.6	29.6	44.4
170	22.9	19.8	29.8

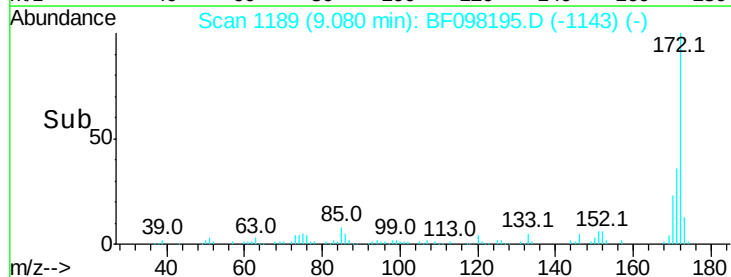
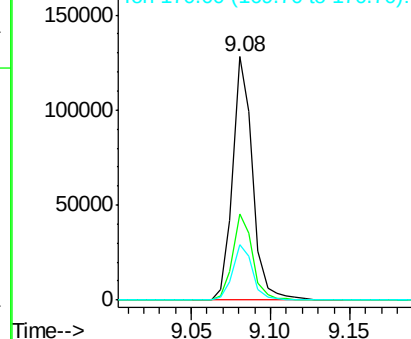


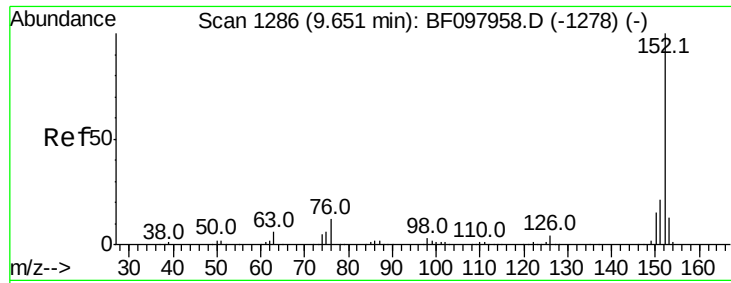
Abundance

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





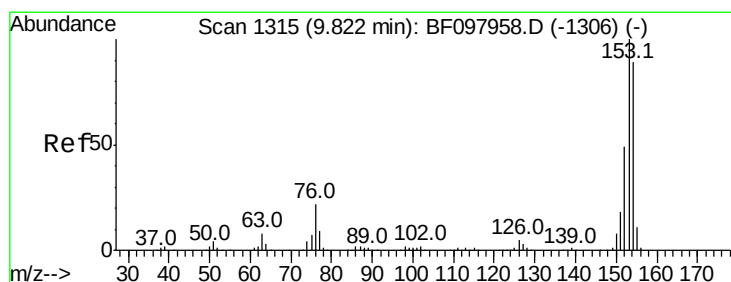
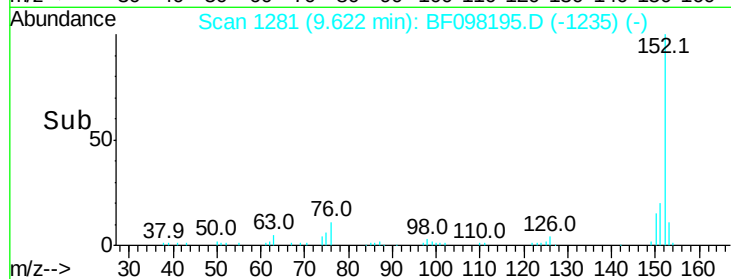
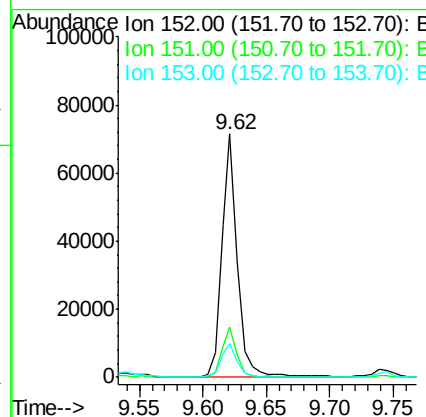
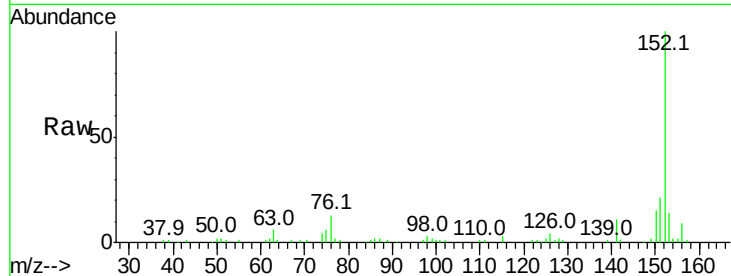
#48
Acenaphthylene
Concen: 3.518 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.03 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Tot Ion:	152	Resp:	62096
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.8	25.2
153	14.0	10.8	16.2

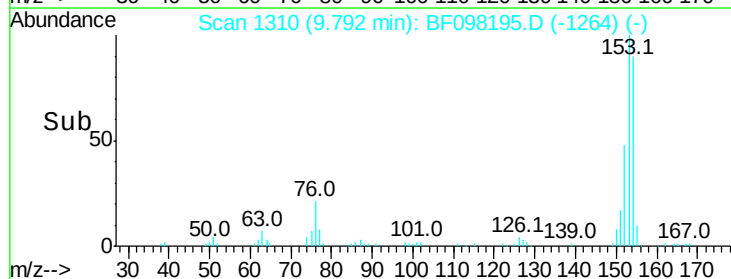
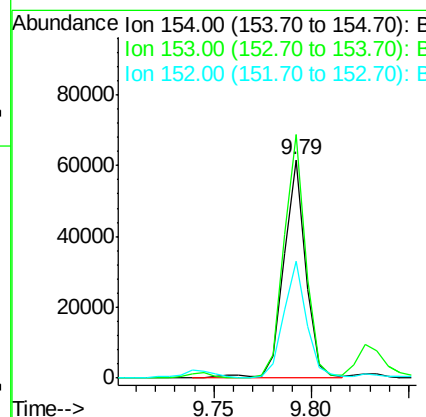
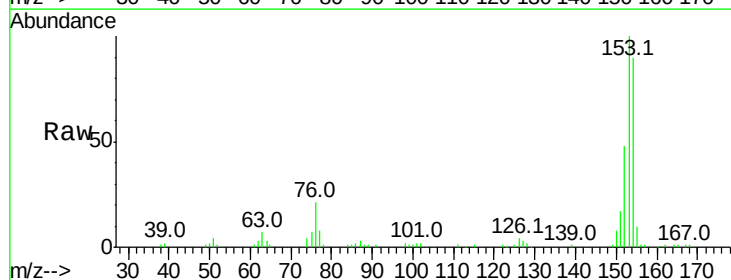
Manual Integrations
APPROVED

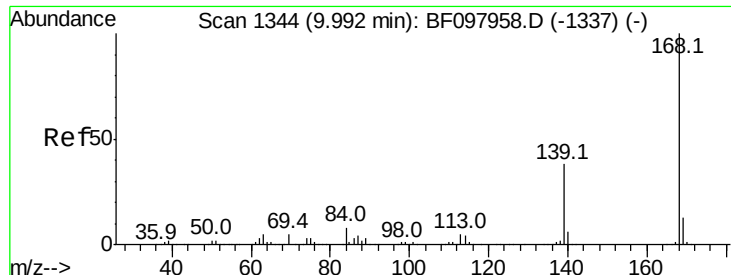
Sohil
8/31/2017 7:13:51 PM



#51
Acenaphthene
Concen: 4.312 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.03 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Tgt Ion:	154	Resp:	48005
Ion Ratio	Lower	Upper	
154	100		
153	111.4	90.5	135.7
152	53.5	43.6	65.4





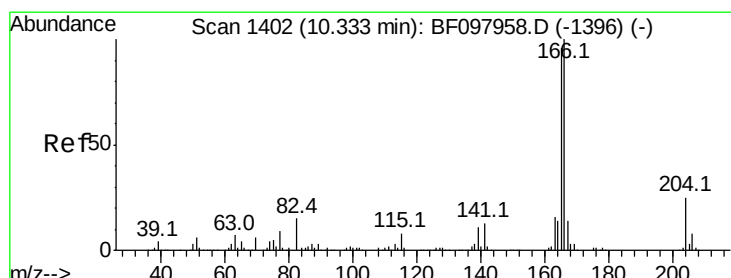
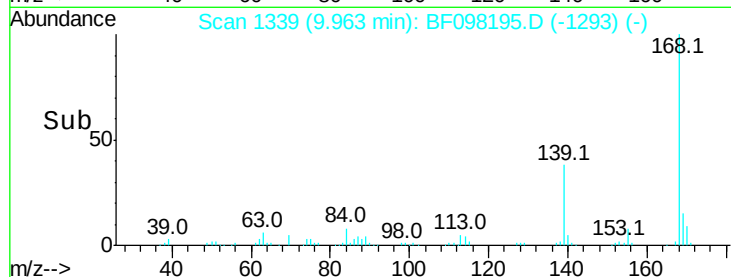
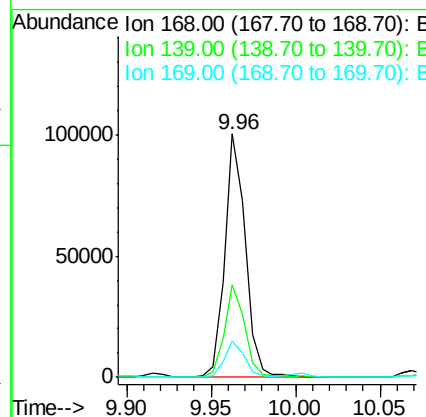
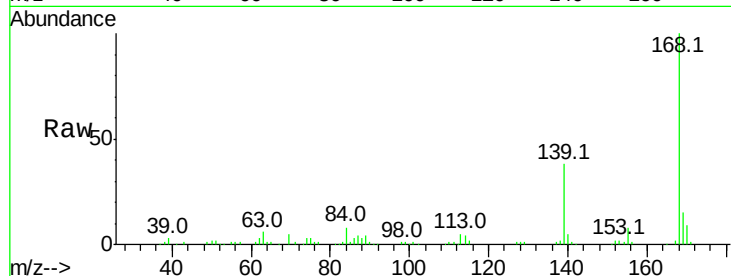
#54
Dibenzofuran
Concen: 5.737 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.03 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	38.2		30.6	45.8
169	14.8		10.8	16.2

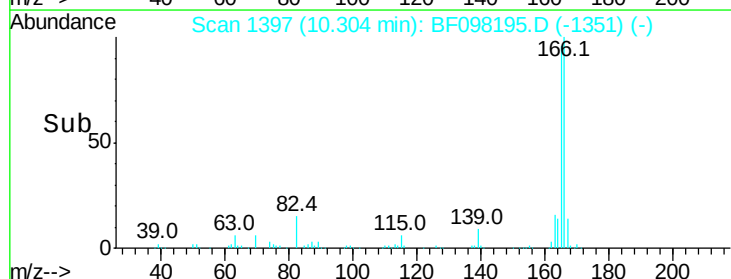
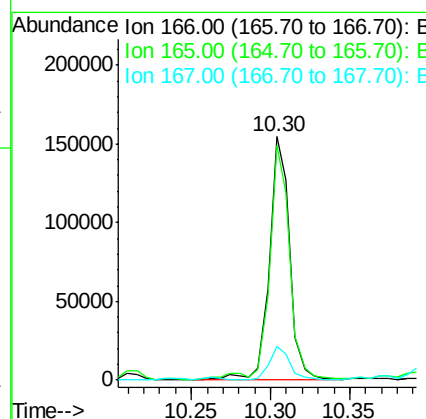
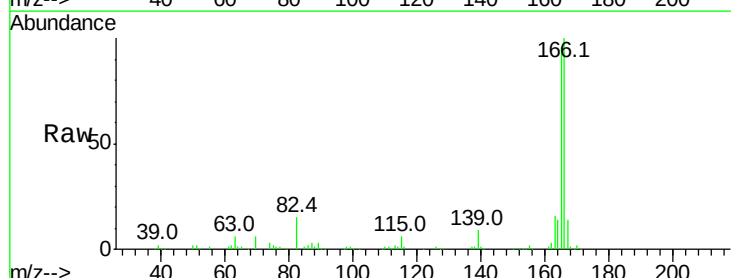
Manual Integrations
APPROVED

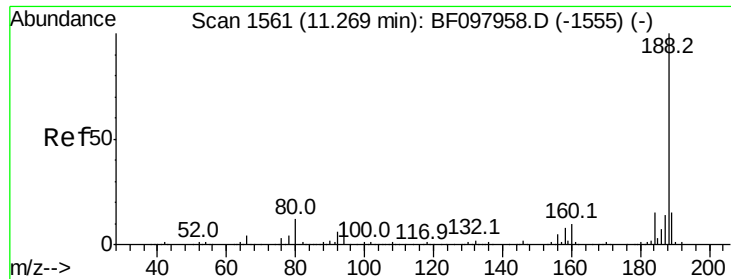
Sohil
8/31/2017 7:13:51 PM



#57
Fluorene
Concen: 12.162 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.03 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	96.4		78.8	118.2
167	13.6		10.6	16.0





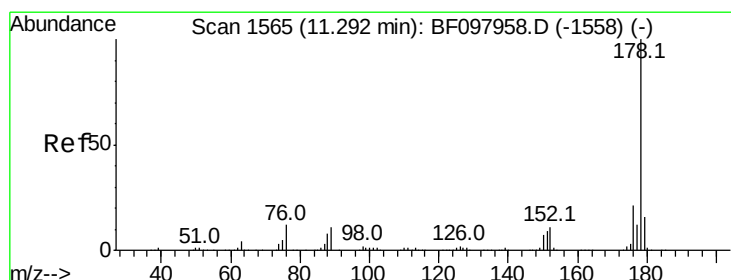
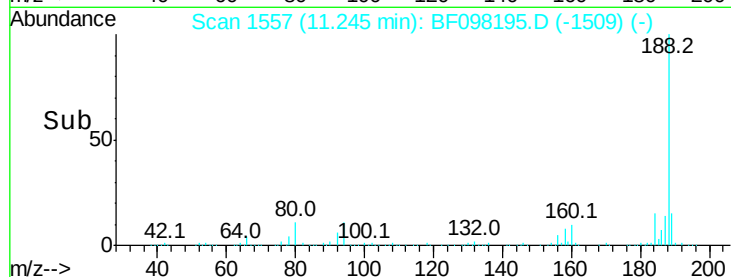
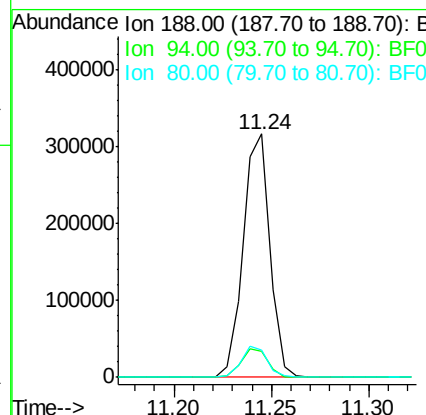
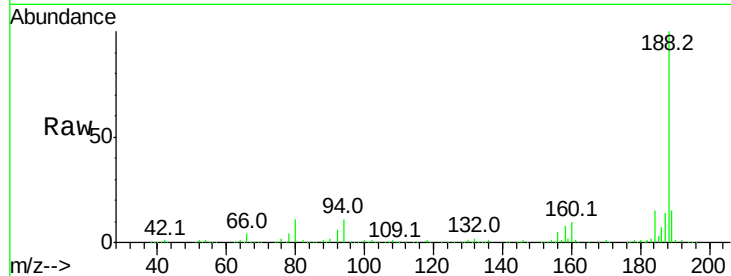
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1557
Delta R.T. -0.02 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	300022		
94	10.7		9.4	14.2
80	11.0		10.2	15.2

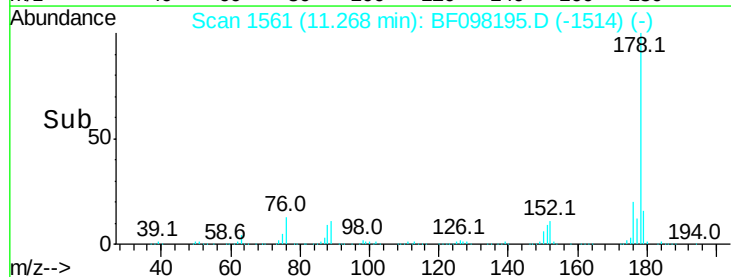
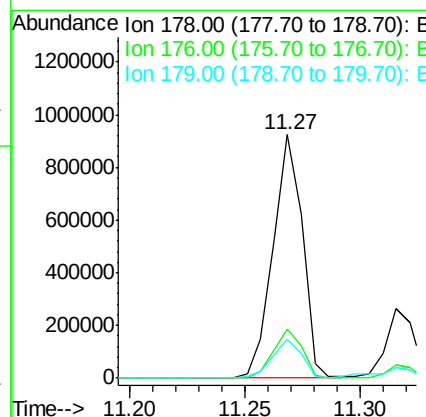
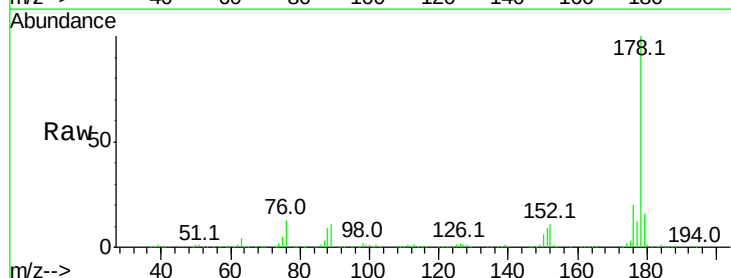
Manual Integrations
APPROVED

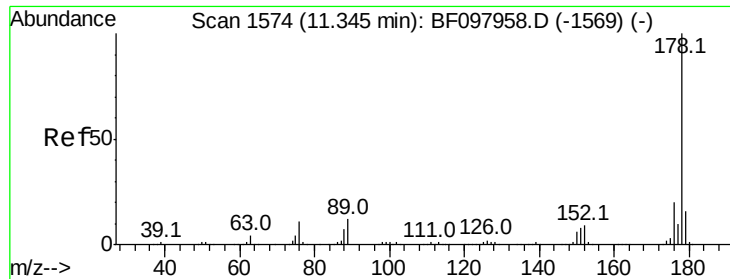
Sohil
8/31/2017 7:13:51 PM



#70
Phenanthrene
Concen: 51.114 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	817182		
176	20.3		16.2	24.4
179	16.0		12.6	19.0





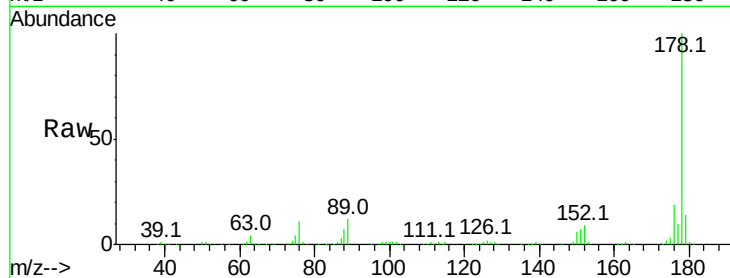
#71
 Anthracene
 Concen: 13.448 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.03 min
 Lab File: BF098195.D
 Acq: 31 Aug 2017 10:44

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-082917-BDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	14.4	12.7	19.1

Manual Integrations
 APPROVED

Sohil
 8/31/2017 7:13:51 PM

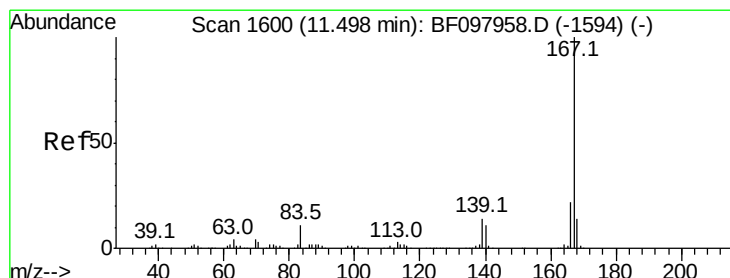
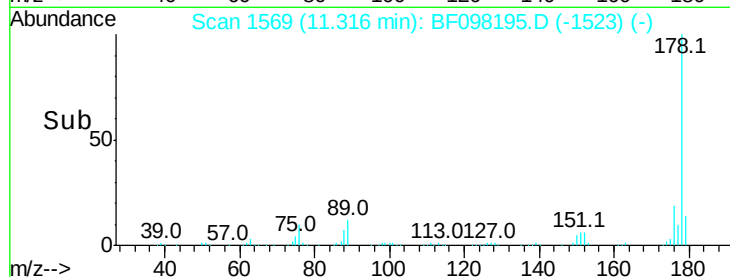
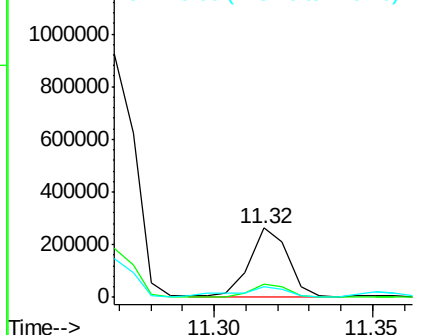


Abundance

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: 8.512 ng
 RT: 11.47 min Scan# 1596
 Delta R.T. -0.02 min
 Lab File: BF098195.D
 Acq: 31 Aug 2017 10:44

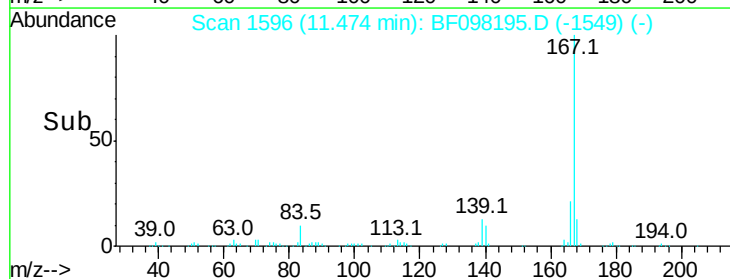
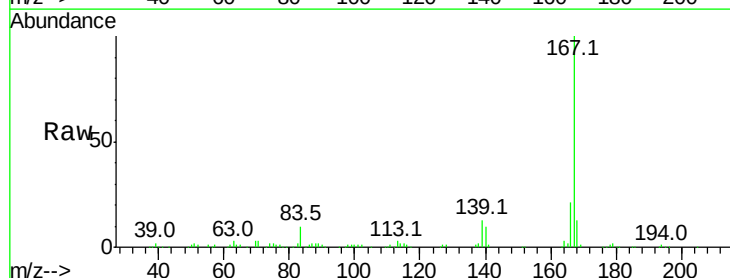
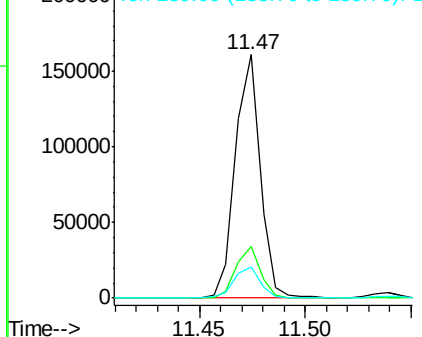
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.3	18.1	27.1
139	12.6	11.7	17.5

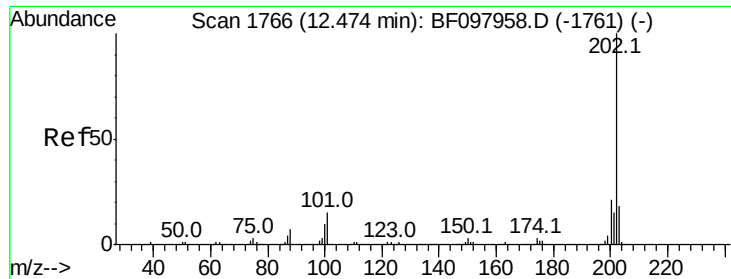
Abundance

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: 47.647 ng

RT: 12.46 min Scan# 1763

Delta R.T. -0.02 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Instrument :

BNA_F

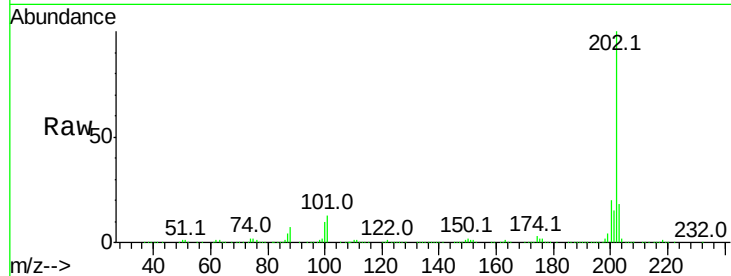
ClientSampleId :

CL-01-082917-BDL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	795095		
101	13.4	0.0	33.2	
203	17.7	0.0	38.1	

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:51 PM



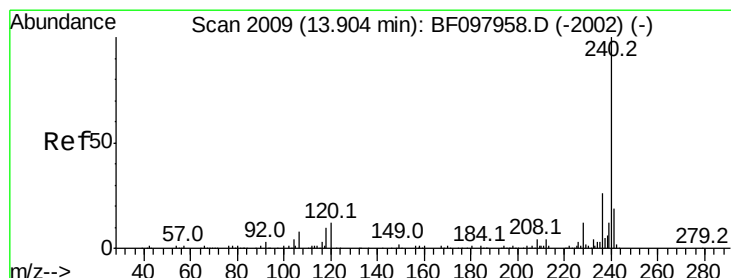
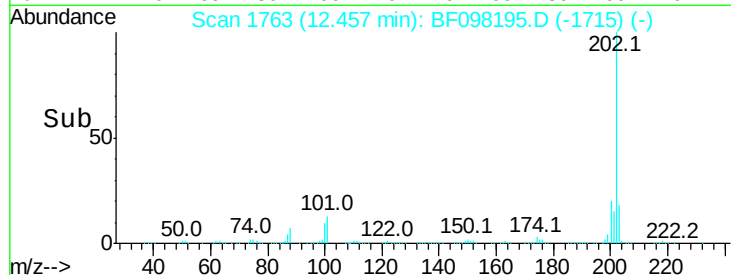
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

12.46

Time-->



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.02 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	251465		
120	15.6	5.8	8.8#	
236	26.7	20.5	30.7	

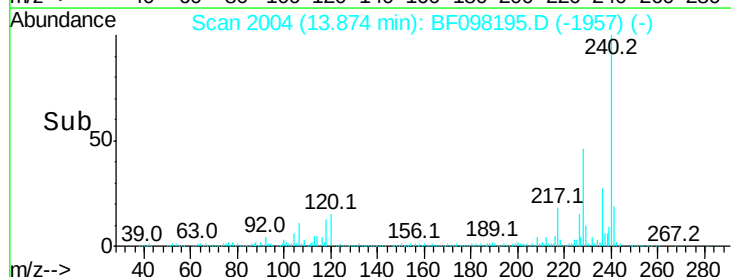
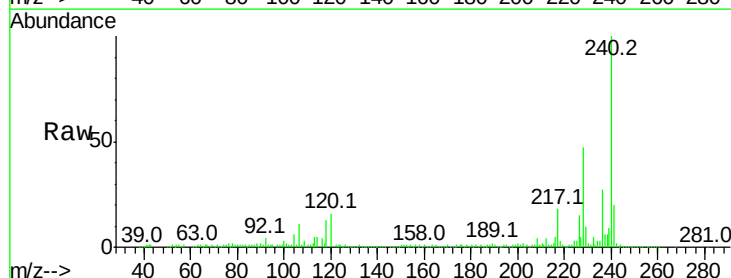
Abundance Ion 240.00 (239.70 to 240.70): E

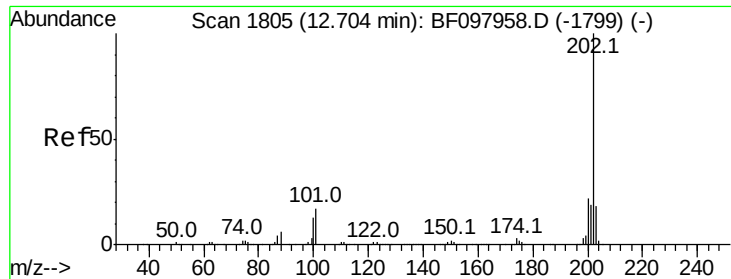
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.87

Time-->





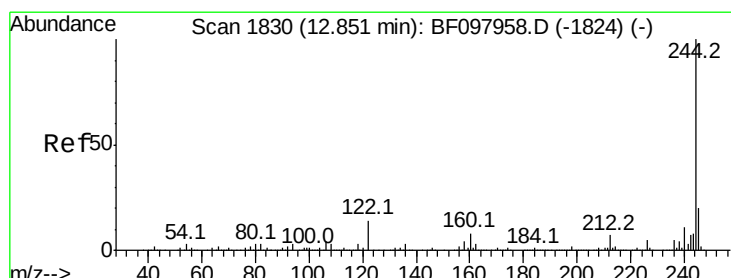
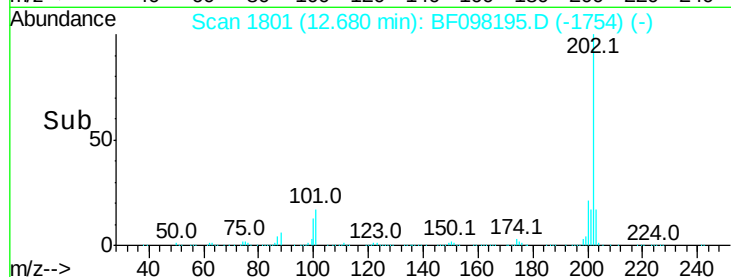
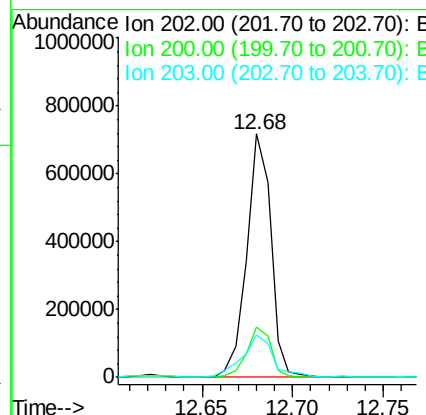
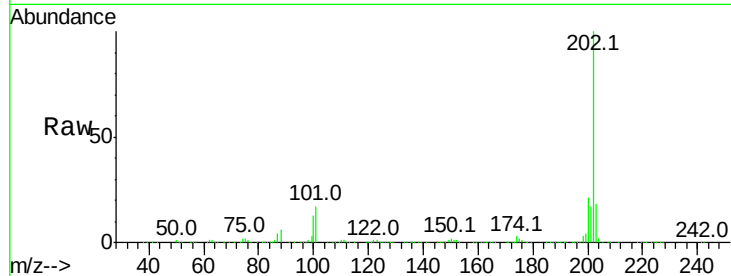
#77
Pvrene
Concen: 32.301 ng
RT: 12.68 min Scan# 1801
Delta R.T. -0.02 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.5	17.6	26.4
203	17.6	14.4	21.6

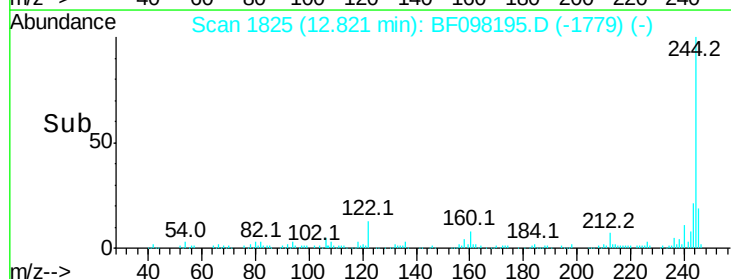
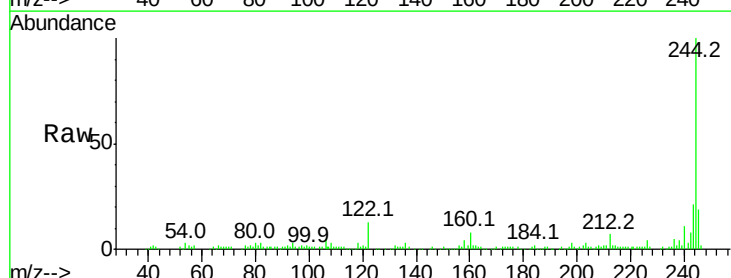
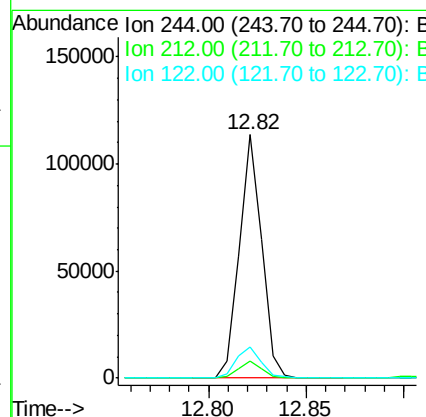
Manual Integrations
APPROVED

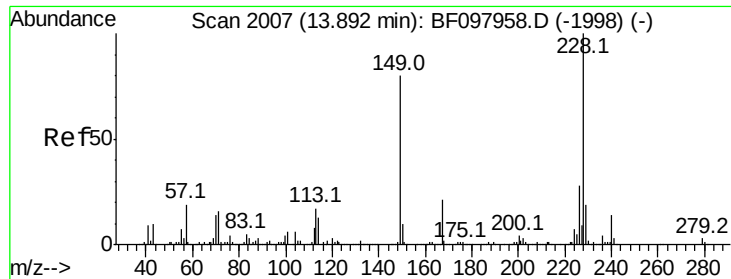
Sohil
8/31/2017 7:13:51 PM



#78
Terphenyl-d14
Concen: 7.514 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.03 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.1	6.0	9.0
122	12.9	10.3	15.5





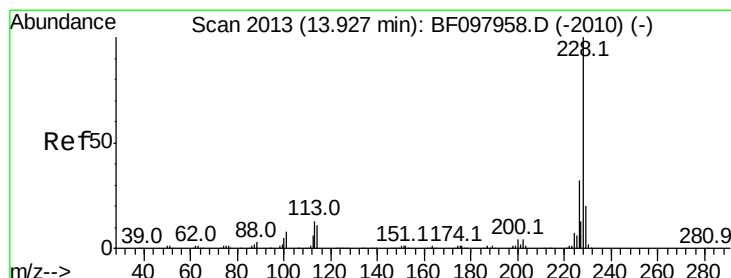
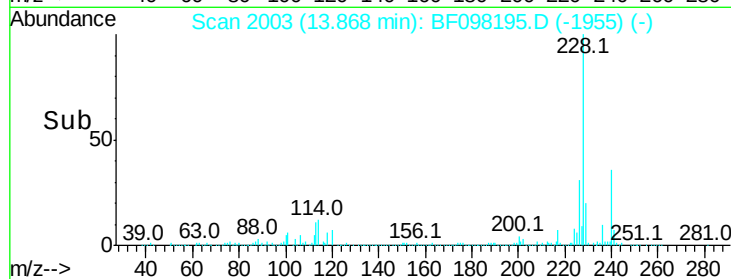
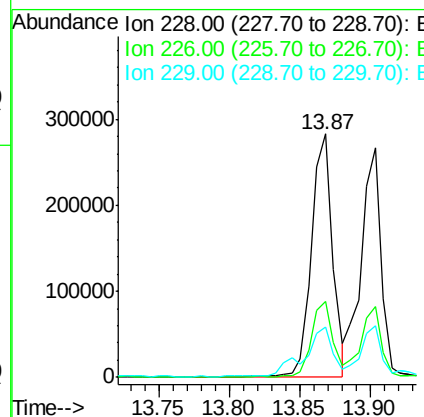
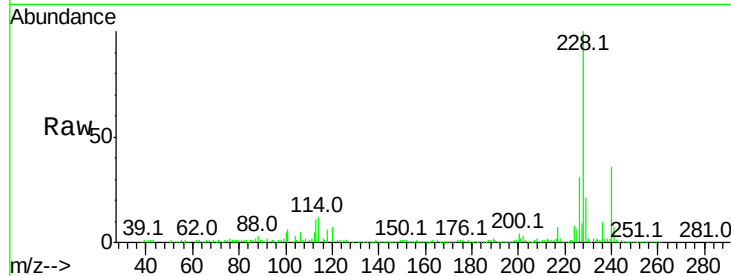
#80
Benzo(a)anthracene
Concen: 19.513 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.02 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	22.6	33.8
229	20.8	16.3	24.5

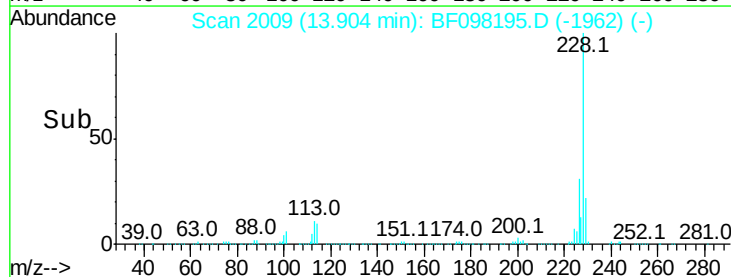
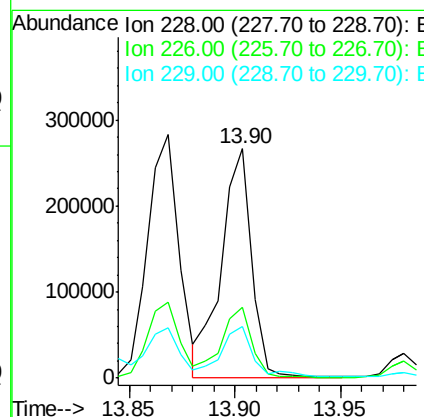
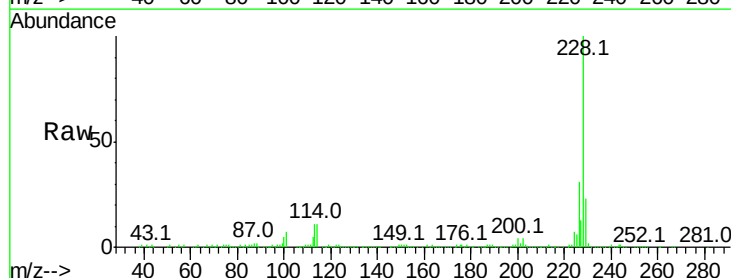
Manual Integrations
APPROVED

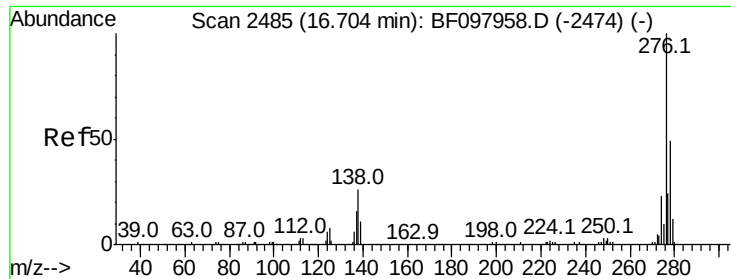
Sohil
8/31/2017 7:13:51 PM



#82
Chrysene
Concen: 17.573 ng
RT: 13.90 min Scan# 2009
Delta R.T. -0.02 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.9	37.3
229	22.6	15.8	23.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 7.781 ng

RT: 16.66 min Scan# 2478

Delta R.T. -0.02 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Instrument :

BNA_F

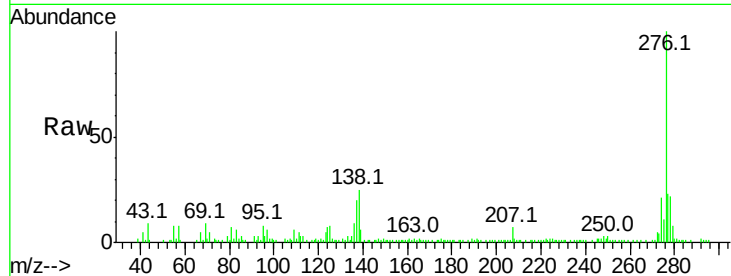
ClientSampleId :

CL-01-082917-BDL

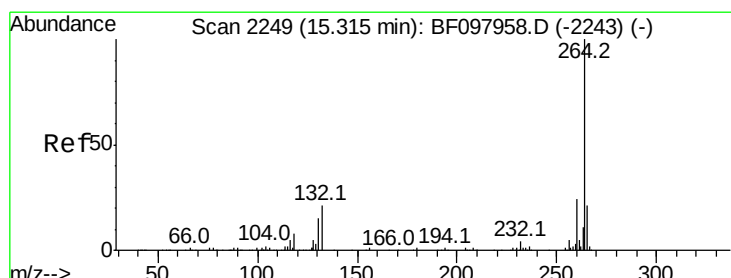
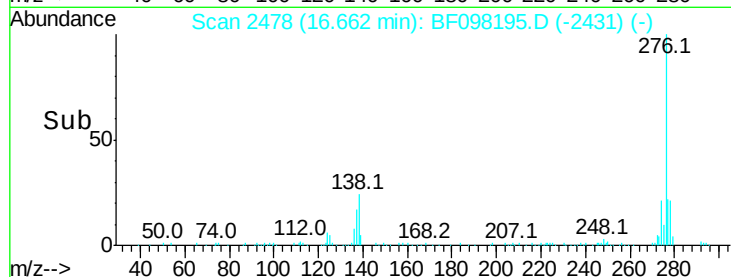
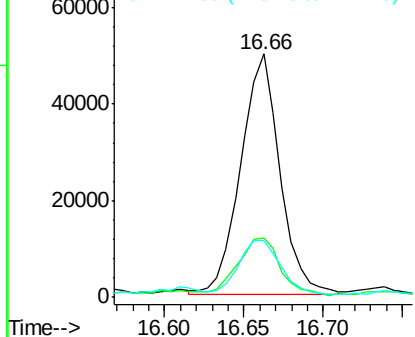
Tot Ion:	276	Resp:	85812
Ion Ratio	Lower	Upper	
276	100		
138	25.8	27.8	41.6#
277	23.8	20.2	30.4

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:51 PM



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



#86

Perylene-d12

Concen: 20.000 ng

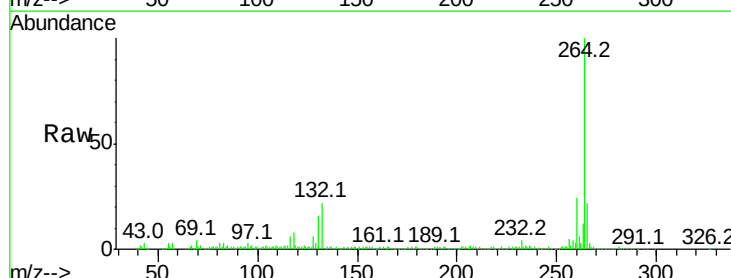
RT: 15.29 min Scan# 2245

Delta R.T. -0.02 min

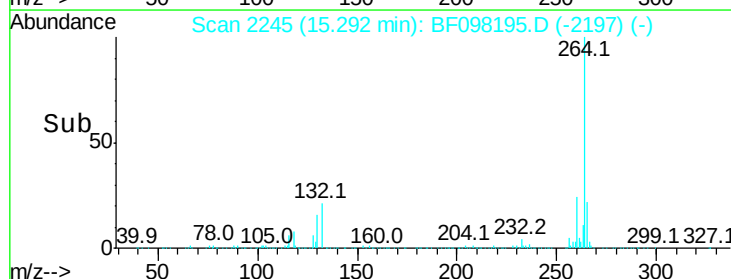
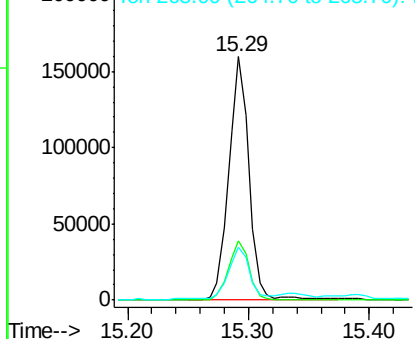
Lab File: BF098195.D

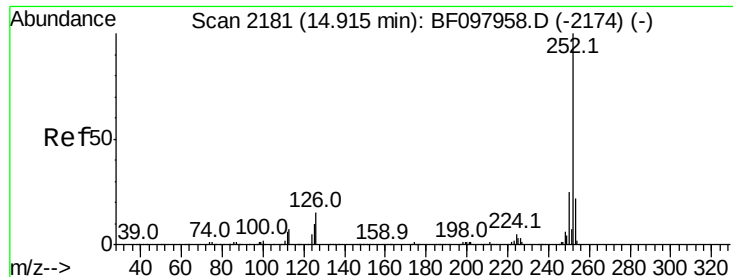
Acq: 31 Aug 2017 10:44

Tgt Ion:	264	Resp:	182737
Ion Ratio	Lower	Upper	
264	100		
260	24.3	19.5	29.3
265	22.0	17.2	25.8



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: 20.195 ng m

RT: 14.89 min Scan# 2177

Delta R.T. -0.02 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

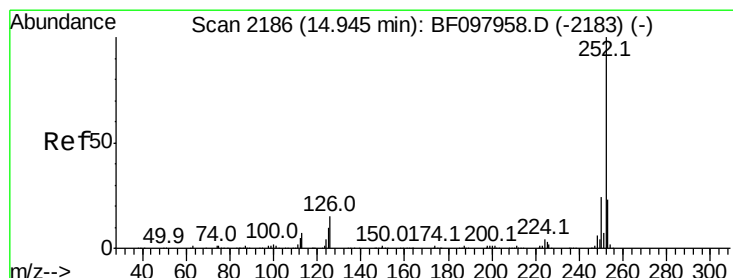
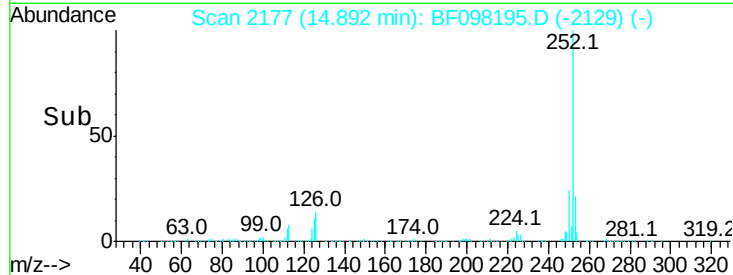
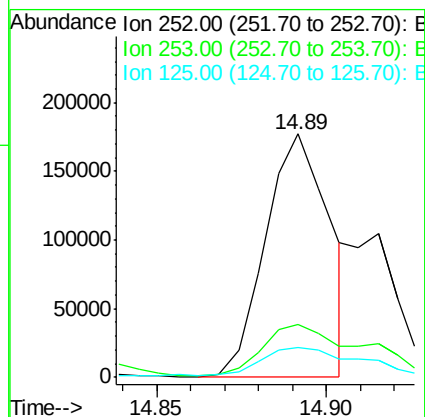
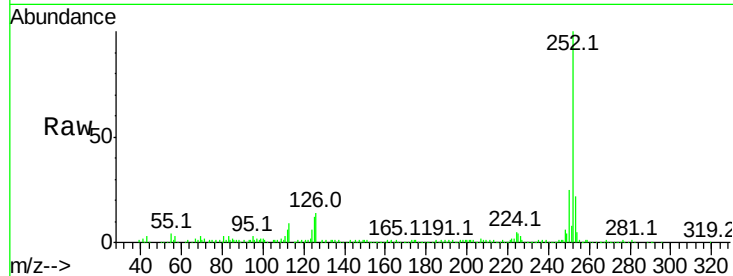
Instrument :
BNA_F

ClientSampleId :
CL-01-082917-BDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.1	27.1
125	12.1	9.8	14.8

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:51 PM



#88

Benzo(k)fluoranthene

Concen: 9.116 ng m

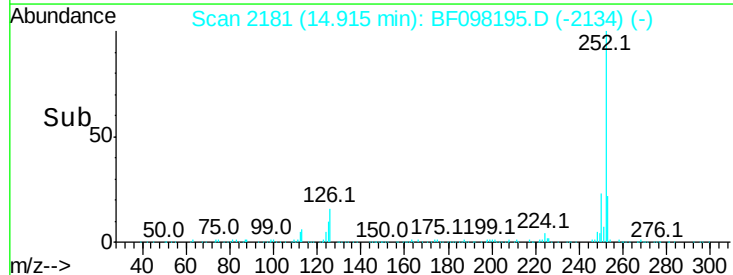
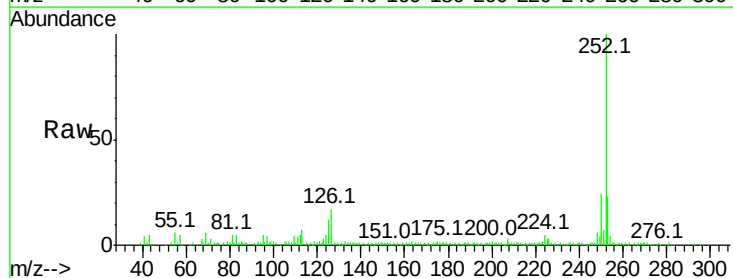
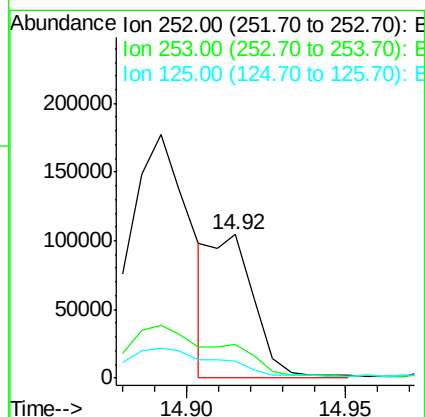
RT: 14.92 min Scan# 2181

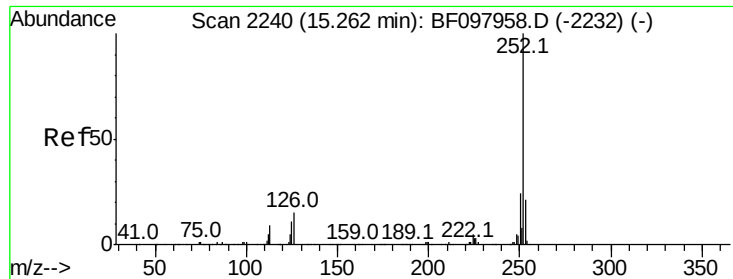
Delta R.T. -0.02 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.4	27.6
125	11.8	13.1	19.7#





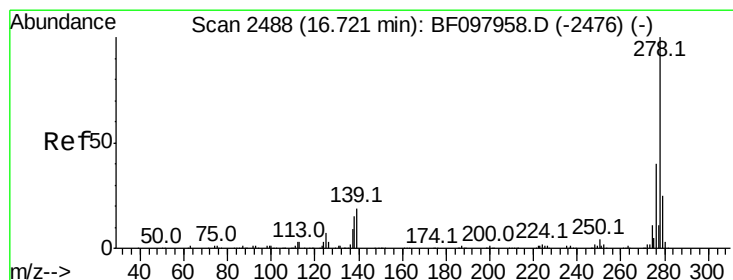
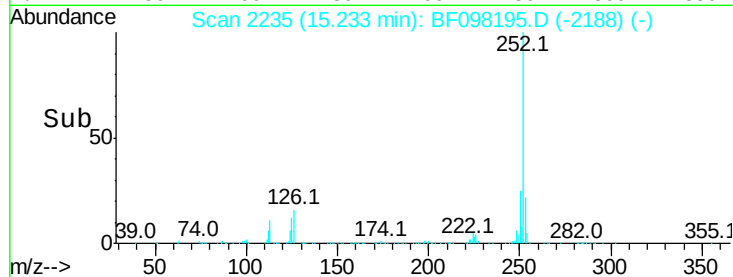
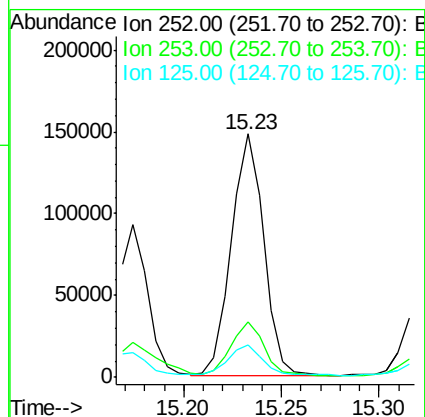
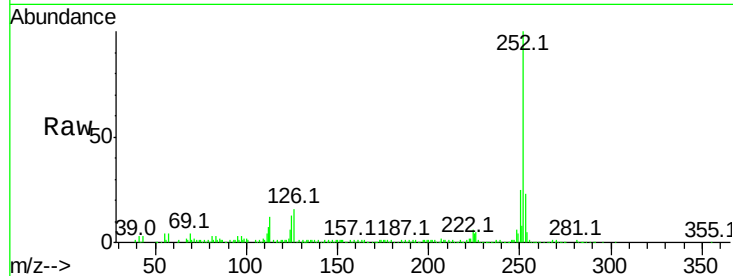
#89
Benzo(a)pyrene
Concen: 16.862 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.02 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Instrument :
BNA_F
ClientSampleId :
CL-01-082917-BDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	13.2	11.0	16.4

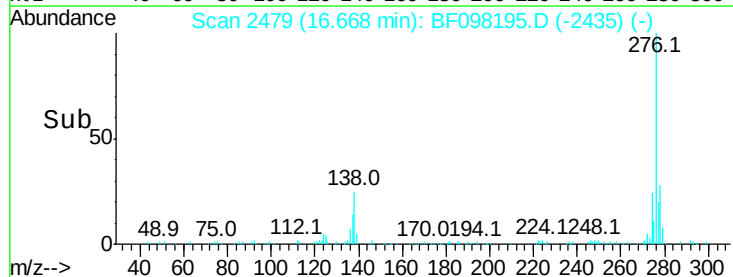
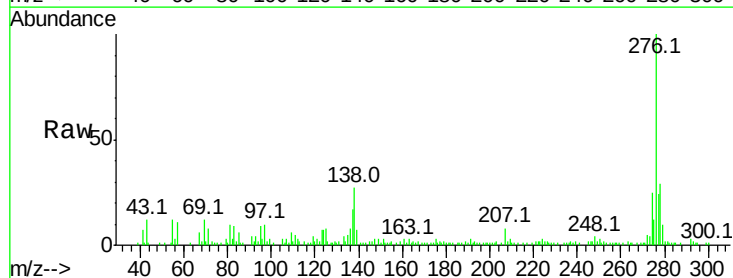
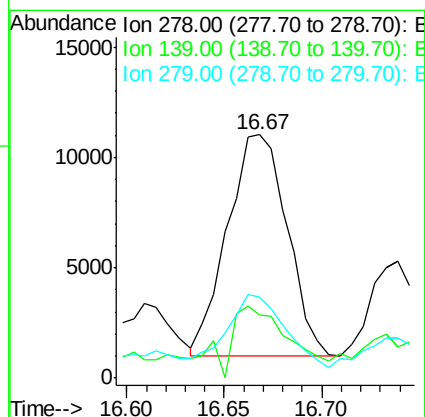
Manual Integrations
APPROVED

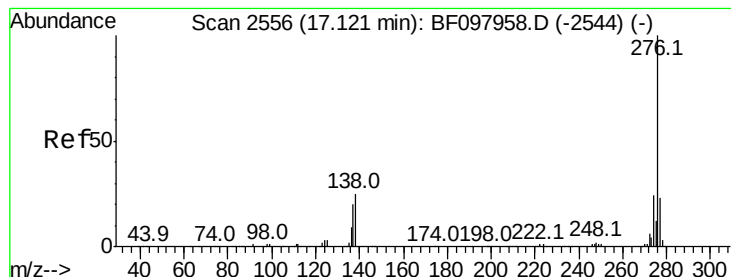
Sohil
8/31/2017 7:13:51 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.570 ng
RT: 16.67 min Scan# 2479
Delta R.T. -0.04 min
Lab File: BF098195.D
Acq: 31 Aug 2017 10:44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.8	16.6	24.8#
279	33.5	19.3	28.9#





#91

Benzo(a,h,i)perylene

Concen: 8.665 ng

RT: 17.07 min Scan# 2548

Delta R.T. -0.04 min

Lab File: BF098195.D

Acq: 31 Aug 2017 10:44

Instrument :

BNA_F

ClientSampleId :

CL-01-082917-BDL

Tot Ion:	276	Resp:	75054
Ion Ratio	Lower	Upper	
276	100		
277	25.4	18.6	28.0
138	24.3	25.4	38.0#

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:51 PM

