

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\
 Data File : BF097057.D
 Acq On : 26 Jul 2017 5:11
 Operator : SJ/JU
 Sample : I4305-03 5X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-N5-BASE

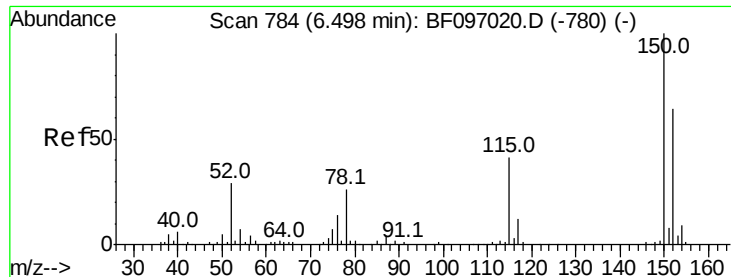
Manual Integrations
 APPROVED

Sohil
 7/26/2017 5:54:34 PM

Quant Time: Jul 26 06:07:03 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	6.50	152	132024	20.00	ng	0.00
21) Naphthalene-d8	7.78	136	504337	20.00	ng	0.00
38) Acenaphthene-d10	9.53	164	197777	20.00	ng	0.00
63) Phenanthrene-d10	11.00	188	287871	20.00	ng	0.00
75) Chrysene-d12	13.62	240	231556	20.00	ng	0.00
86) Perylene-d12	14.97	264	166096	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.10	112	221363	25.28	ng	0.00
7) Phenol-d6	6.16	99	265422	26.55	ng	-0.01
23) Nitrobenzene-d5	7.06	82	153605	17.87	ng	-0.01
41) 2,4,6-Tribromophenol	10.31	330	36441	23.32	ng	-0.01
44) 2-Fluorobiphenyl	8.86	172	263800	22.64	ng	-0.01
78) Terphenyl-d14	12.58	244	152340	13.41	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.80	128	248329	10.445	ng	100
37) 2-Methylnaphthalene	8.50	142	993515	66.003	ng	98
45) 1,1'-Biphenyl	8.96	154	50908	3.014	ng	98
51) Acenaphthene	9.56	154	27702	2.465	ng	98
57) Fluorene	10.07	166	43291	3.847	ng	# 95
59) Diethylphthalate	9.96	149	30580	2.219	ng	98
70) Phenanthrene	11.02	178	98553	6.389	ng	99
74) Fluoranthene	12.20	202	114938	7.607	ng	98
77) Pyrene	12.43	202	101628	5.361	ng	97
80) Benzo(a)anthracene	13.62	228	47154	3.147	ng	97
82) Chrysene	13.65	228	48398	3.308	ng	97
87) Benzo(b)fluoranthene	14.62	252	43440m	4.351	ng	
89) Benzo(a)pyrene	14.92	252	31053	3.398	ng	# 91
91) Benzo(a,h,i)perylene	16.56	276	17575	2.236	ng	93

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



#1

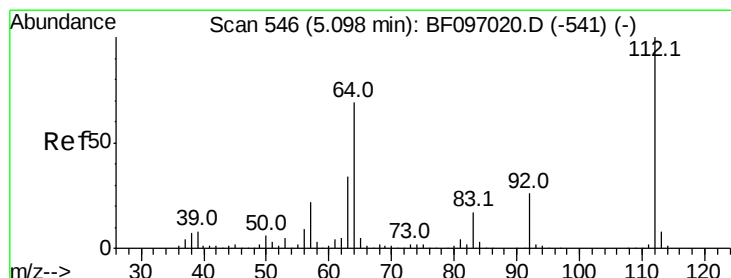
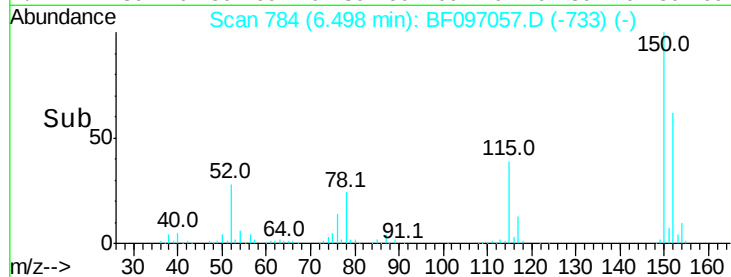
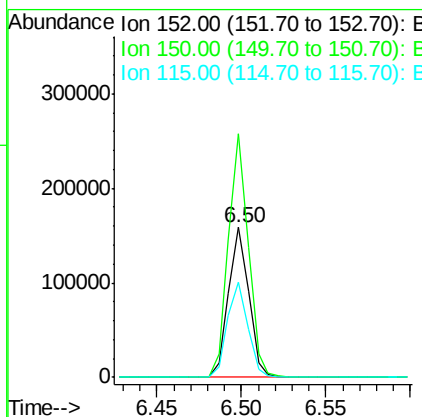
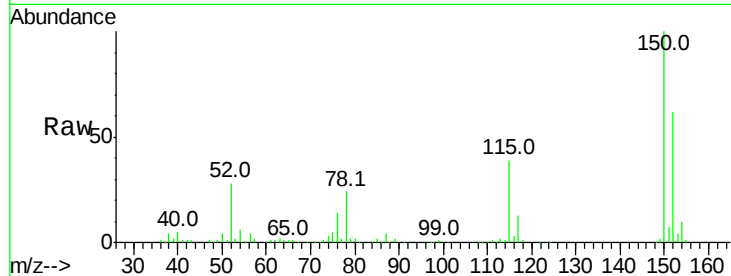
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.50 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampleId :
E2-N5-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.2	126.2	189.2
115	63.7	52.2	78.2

Manual Integrations
APPROVED

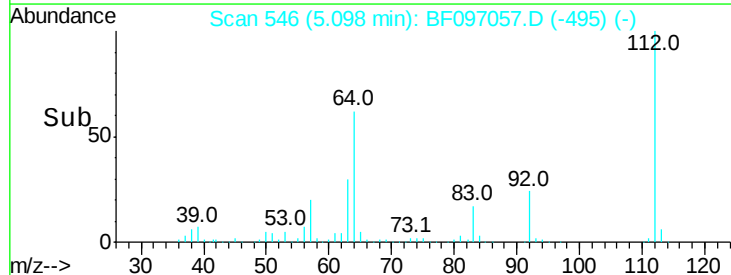
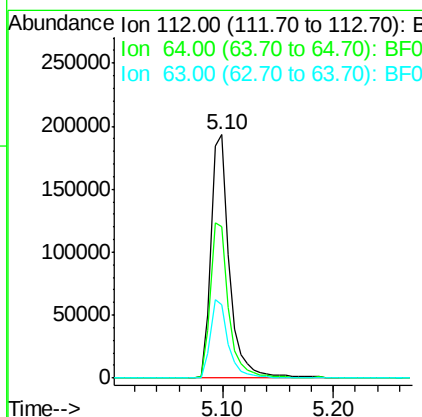
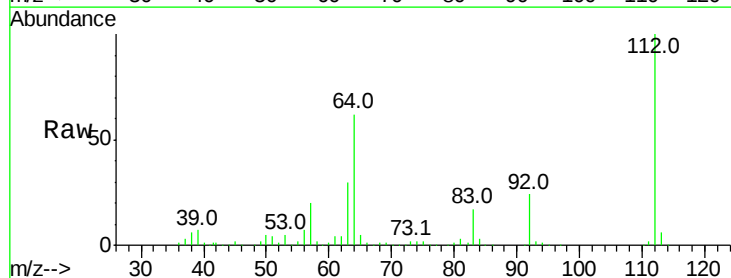
Sohil
7/26/2017 5:54:34 PM

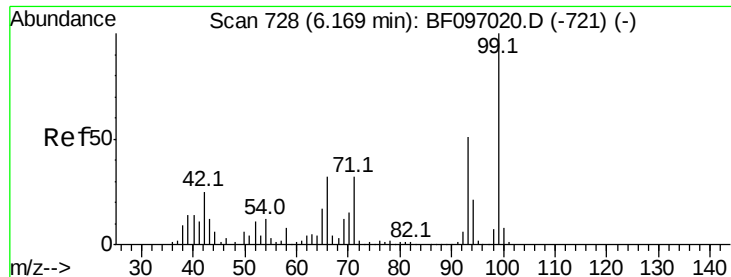


#5

2-Fluorophenol
Concen: 25.276 ng
RT: 5.10 min Scan# 546
Delta R.T. 0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.4	46.0	69.0
63	30.2	23.4	35.0





#7

Phenol-d6

Concen: 26.547 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampled :

E2-N5-BASE

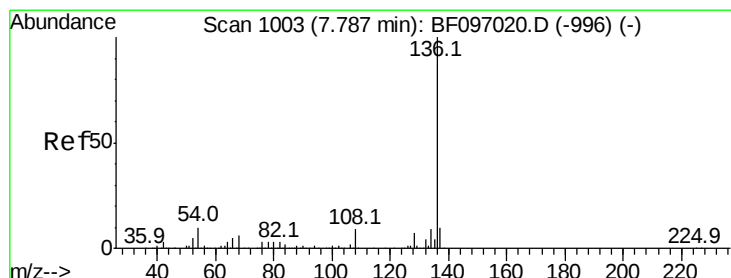
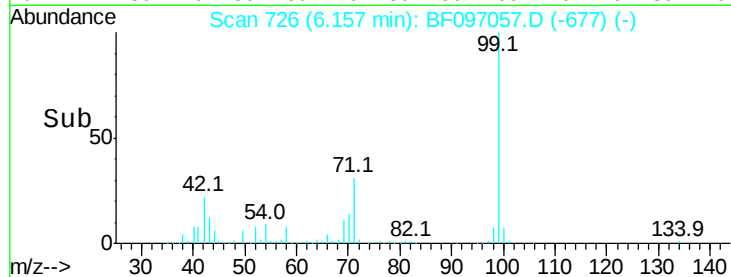
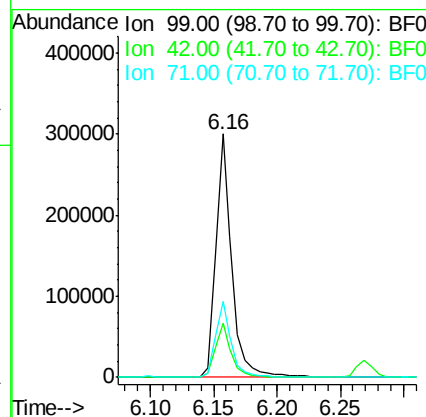
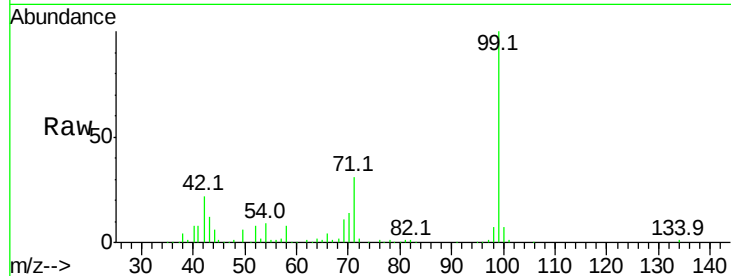
Tot Ion: 99 Resp: 265422

Ion	Ratio	Lower	Upper
99	100		
42	22.5	13.5	20.3#
71	31.1	24.5	36.7

Manual Integrations
APPROVED

Sohil

7/26/2017 5:54:34 PM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.78 min Scan# 1002

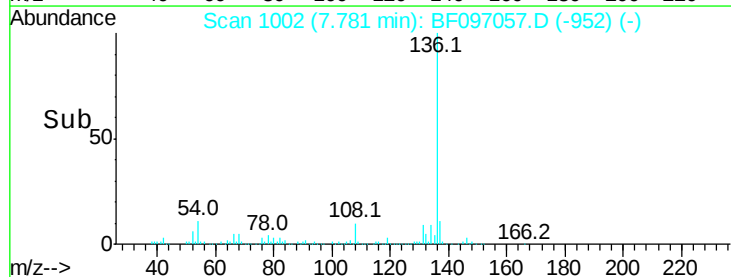
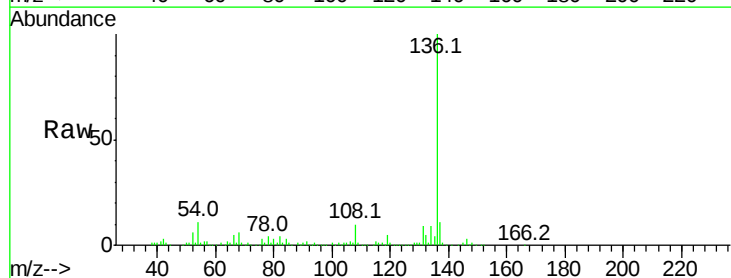
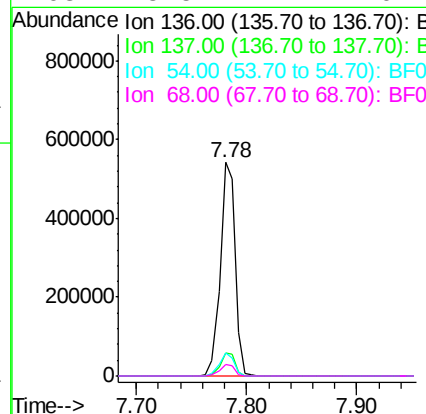
Delta R.T. -0.01 min

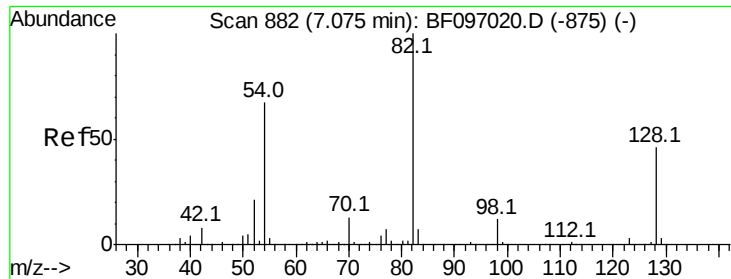
Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Tgt Ion: 136 Resp: 504337

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	10.8	4.9	7.3#
68	5.5	4.1	6.1





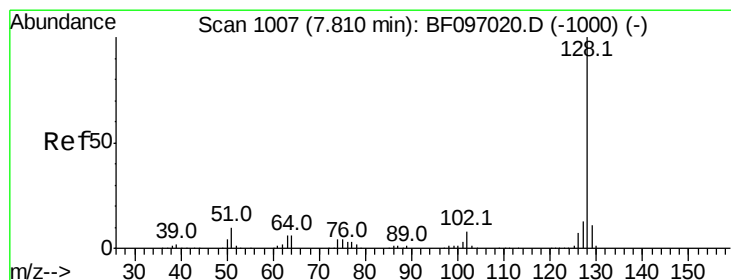
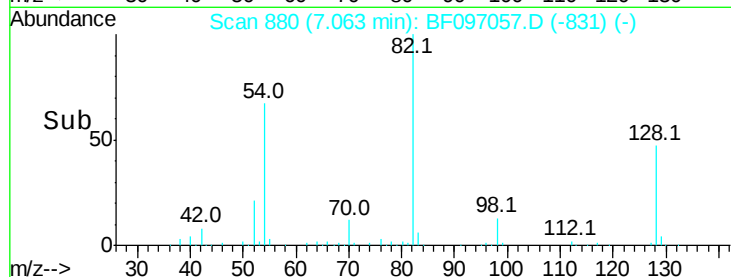
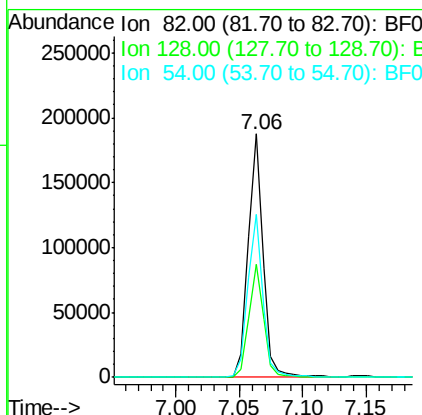
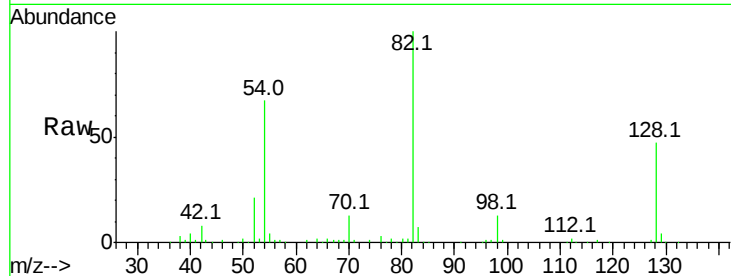
#23
Nitrobenzene-d5
Concen: 17.867 ng
RT: 7.06 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampleId :
E2-N5-BASE

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.6	34.0	51.0
54	67.0	42.2	63.2

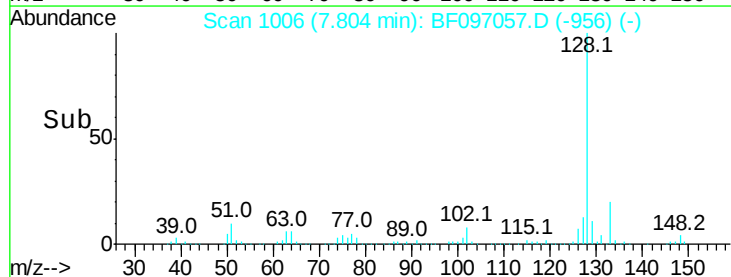
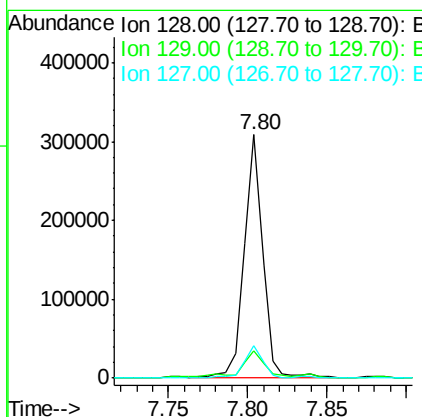
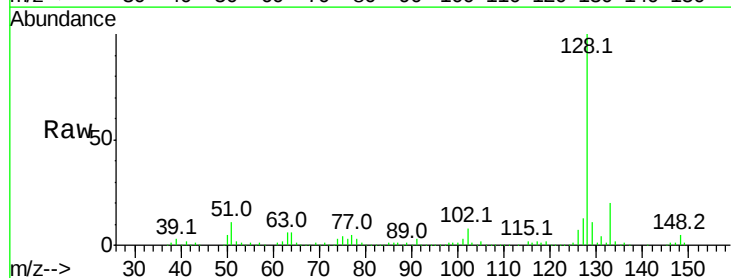
Manual Integrations
APPROVED

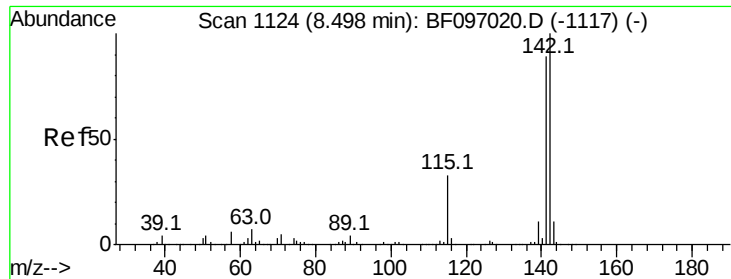
Sohil
7/26/2017 5:54:34 PM



#31
Naphthalene
Concen: 10.445 ng
RT: 7.80 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

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





#37

2-Methylnaphthalene

Concen: 66.003 ng

RT: 8.50 min Scan# 1125

Delta R.T. 0.01 min

Lab File: BF097057.D

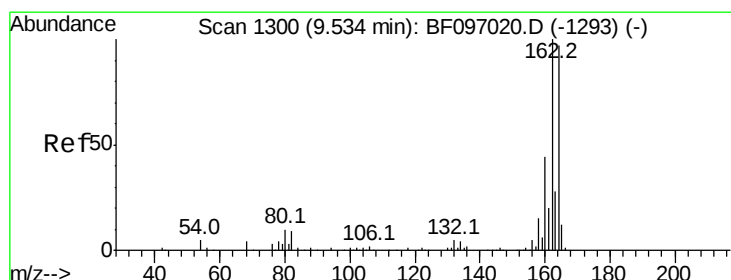
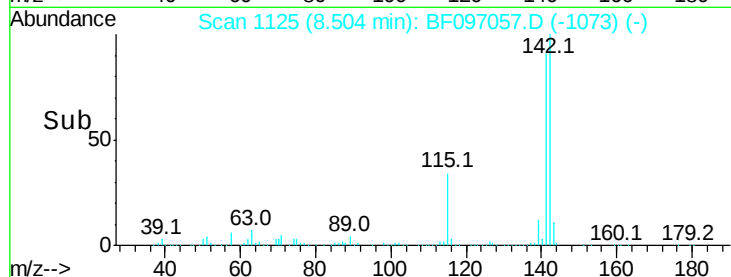
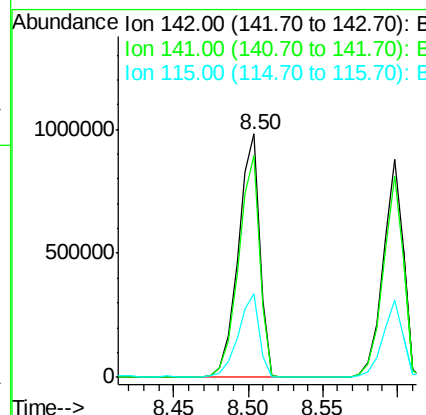
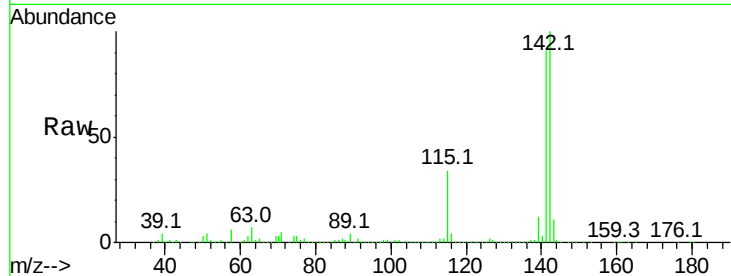
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampled :
E2-N5-BASE

Tot Ion	Ratio	Resp	Lower	Upper
142	100	993515		
141	91.0	71.3	106.9	
115	34.1	27.1	40.7	

Manual Integrations
APPROVED

Sohil
7/26/2017 5:54:34 PM



#38

Acenaphthene-d10

Concen: 20.000 ng

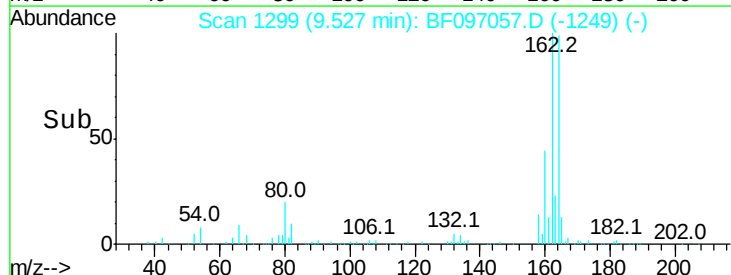
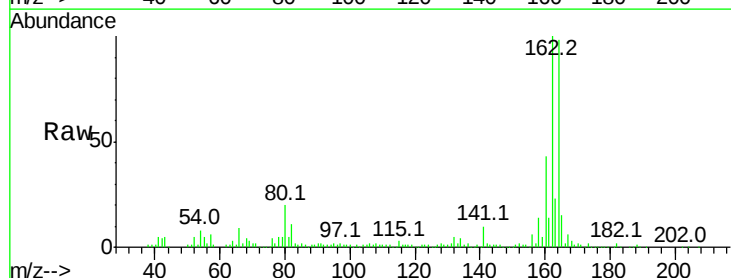
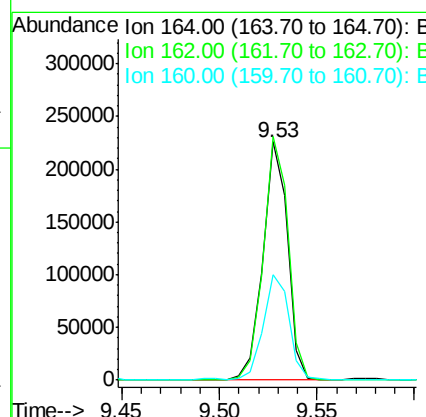
RT: 9.53 min Scan# 1299

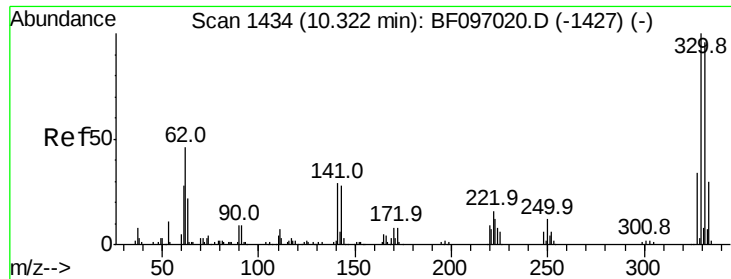
Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	197777		
162	102.2	82.6	123.8	
160	44.2	36.2	54.2	





#41

2,4,6-Tribromophenol

Concen: 23.320 ng

RT: 10.31 min Scan# 1432

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampled :

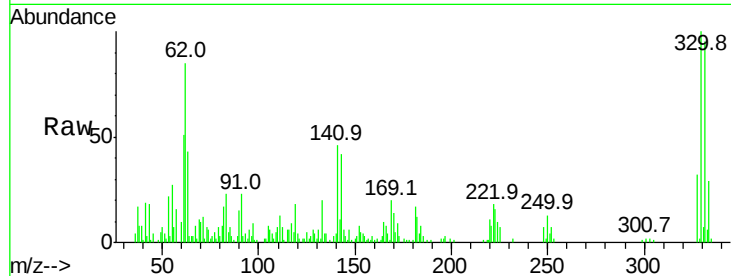
E2-N5-BASE

Tot Ion:	330	Resp:	36441
Ion Ratio	Lower	Upper	
330	100		
332	95.8	76.6	115.0
141	38.0	31.4	47.2

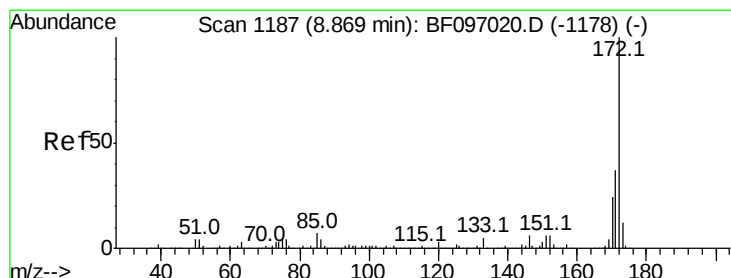
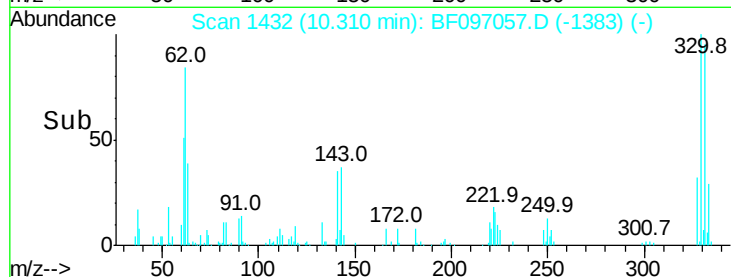
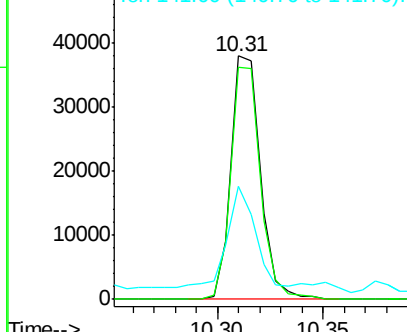
Manual Integrations
APPROVED

Sohil

7/26/2017 5:54:34 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: 22.636 ng

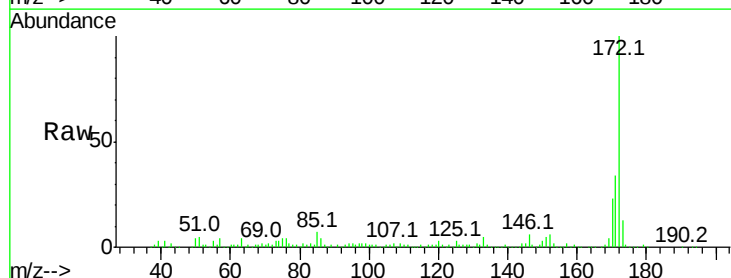
RT: 8.86 min Scan# 1185

Delta R.T. -0.01 min

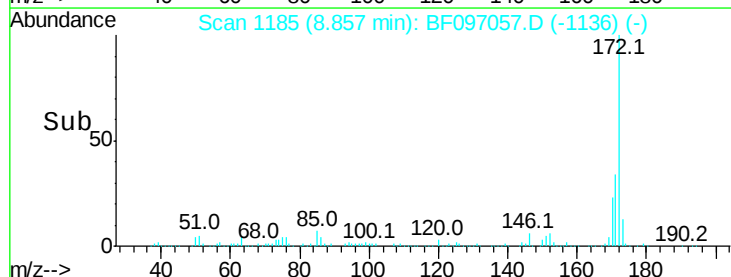
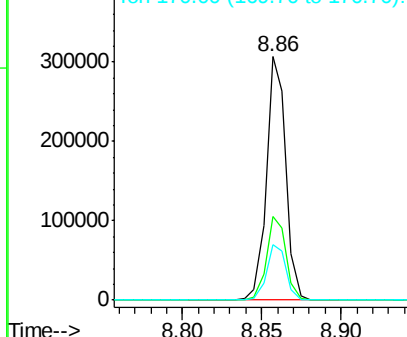
Lab File: BF097057.D

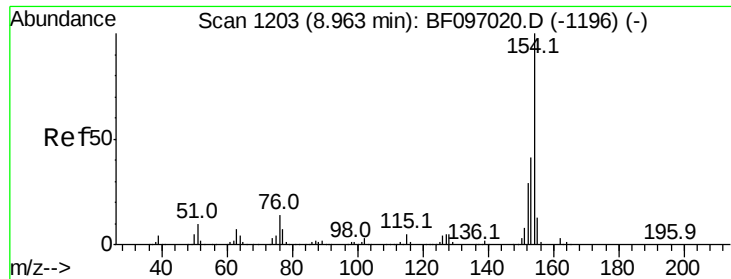
Acq: 26 Jul 2017 5:11

Tgt Ion:	172	Resp:	263800
Ion Ratio	Lower	Upper	
172	100		
171	34.4	29.6	44.4
170	23.0	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





#45

1,1'-Biphenyl

Concen: 3.014 ng

RT: 8.96 min Scan# 1202

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampleId :

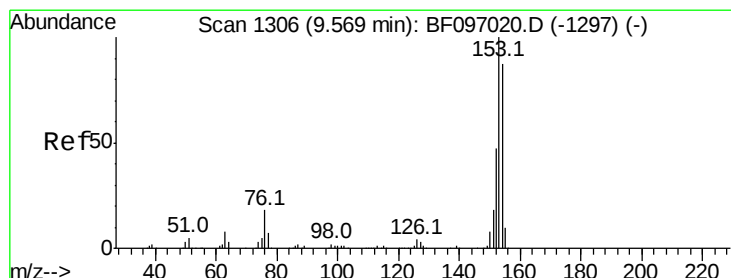
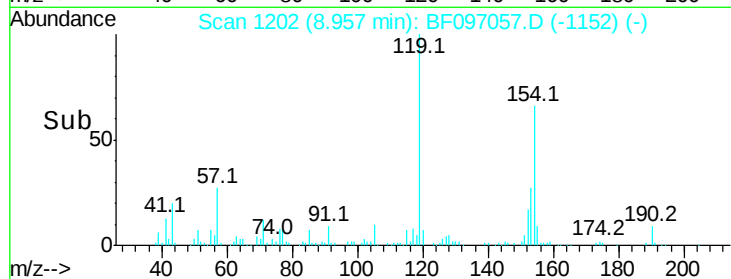
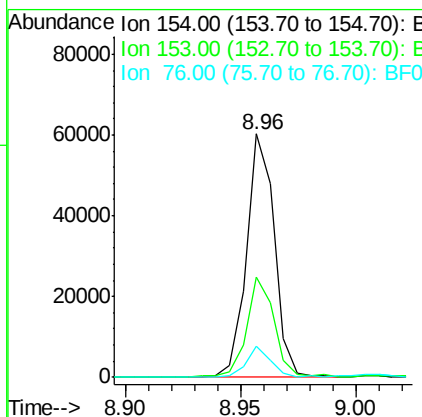
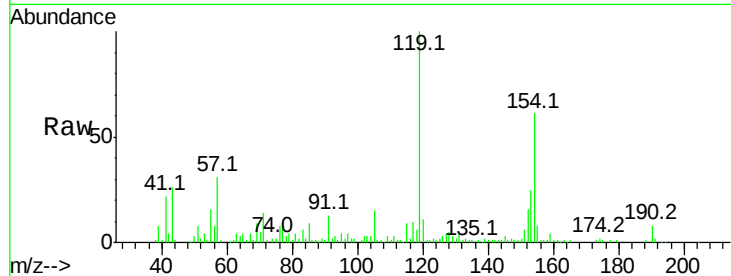
E2-N5-BASE

Tot Ion:	154	Resp:	50908
Ion Ratio	Lower	Upper	
154	100		
153	41.2	21.2	61.2
76	12.9	0.0	29.9

Manual Integrations
APPROVED

Sohil

7/26/2017 5:54:34 PM



#51

Acenaphthene

Concen: 2.465 ng

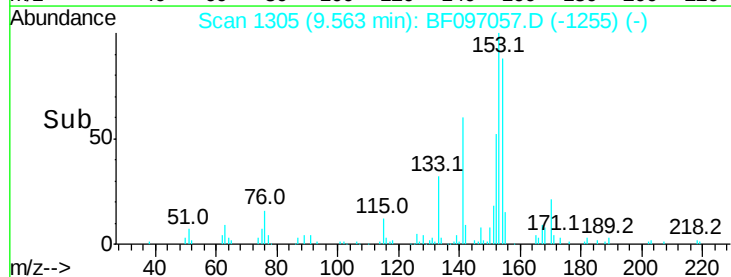
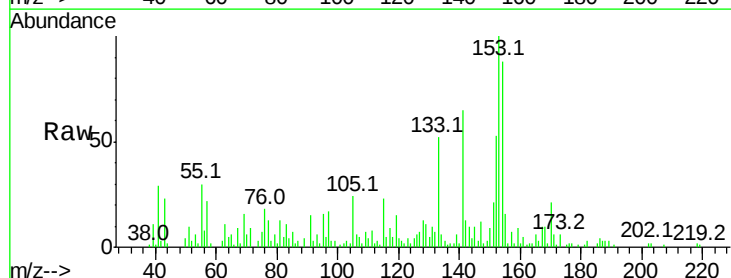
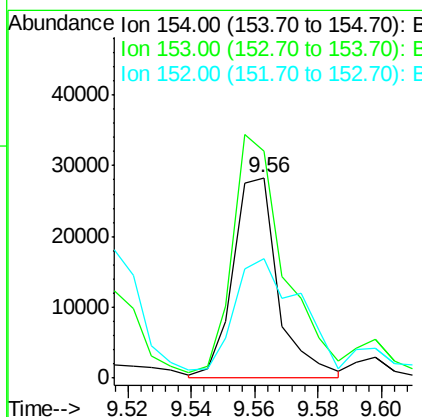
RT: 9.56 min Scan# 1305

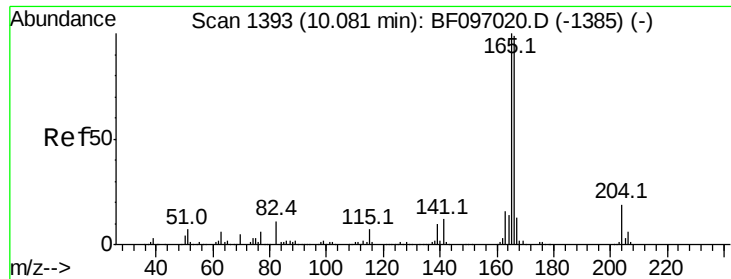
Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Tgt Ion:	154	Resp:	27702
Ion Ratio	Lower	Upper	
154	100		
153	113.2	90.5	135.7
152	59.5	43.6	65.4





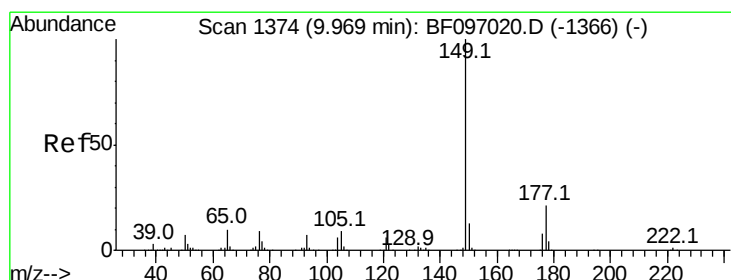
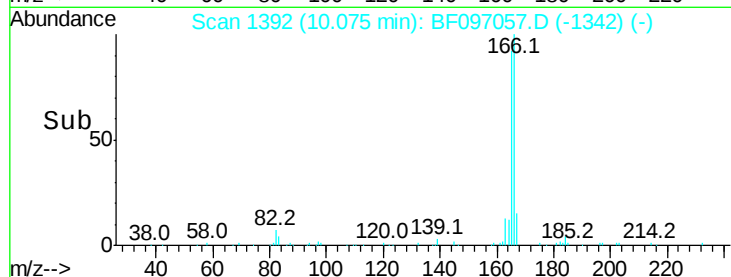
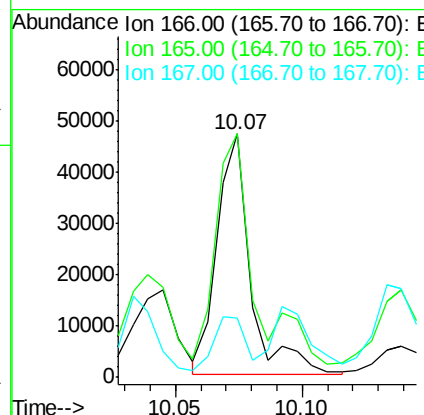
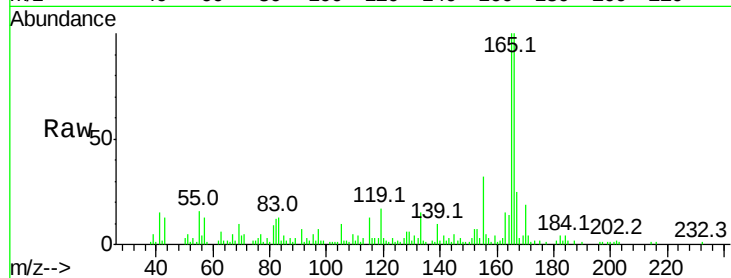
#57
Fluorene
 Concen: 3.847 ng
 RT: 10.07 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: BF097057.D
 Acq: 26 Jul 2017 5:11

Instrument :
 BNA_F
 ClientSampleId :
 E2-N5-BASE

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.1	78.8	118.2
167	24.6	10.6	16.0

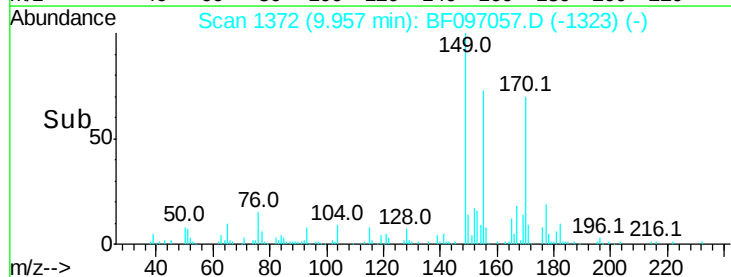
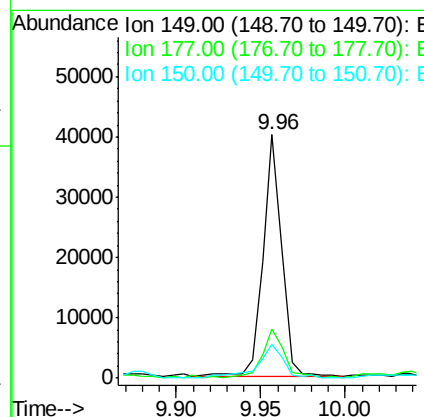
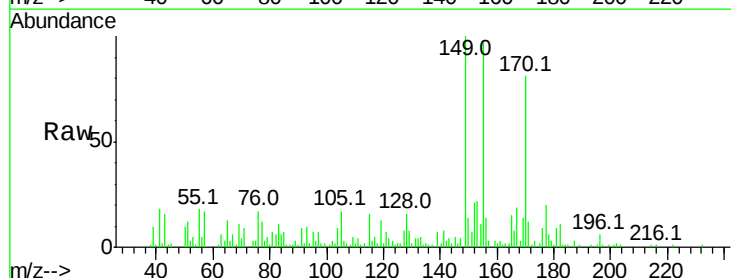
Manual Integrations
 APPROVED

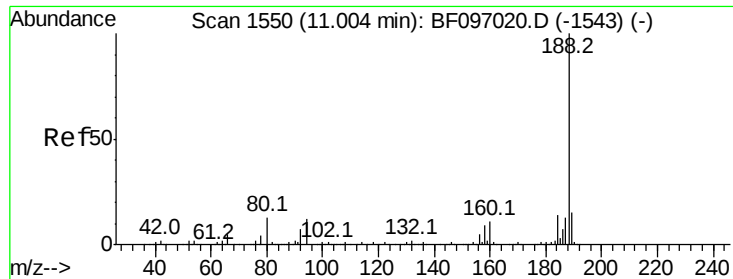
Sohil
 7/26/2017 5:54:34 PM



#59
Diethylphthalate
 Concen: 2.219 ng
 RT: 9.96 min Scan# 1372
 Delta R.T. -0.01 min
 Lab File: BF097057.D
 Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Lower	Upper
149	100		
177	20.3	16.7	25.1
150	13.8	10.2	15.2





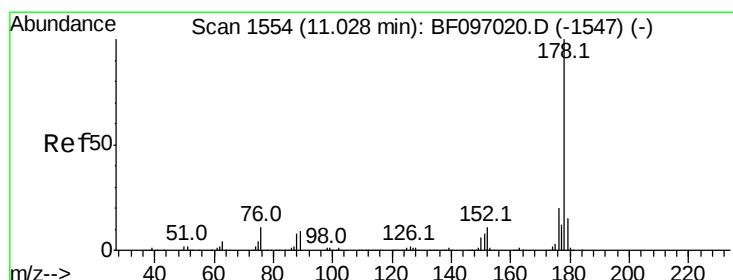
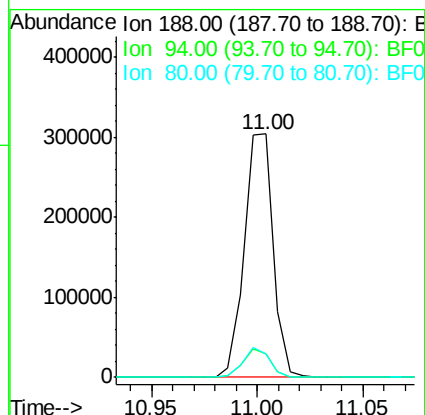
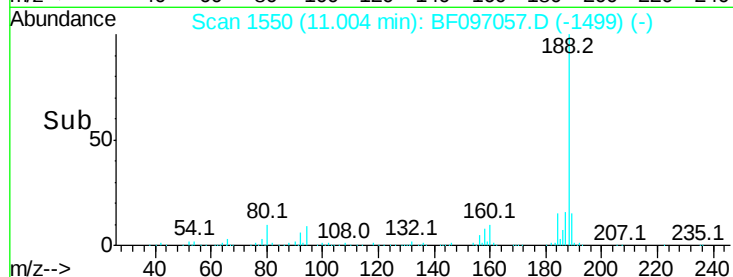
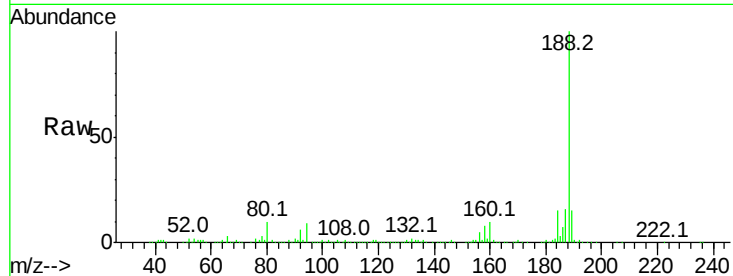
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.00 min Scan# 1550
Delta R.T. -0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampleId :
E2-N5-BASE

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.4	9.4	14.2#
80	9.6	10.2	15.2#

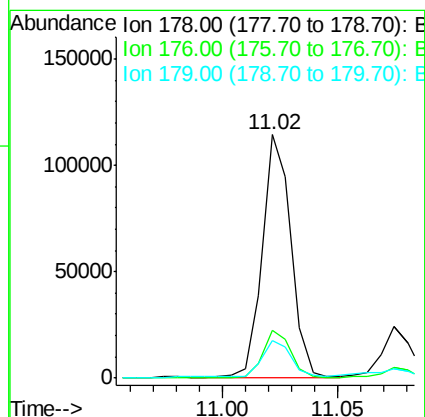
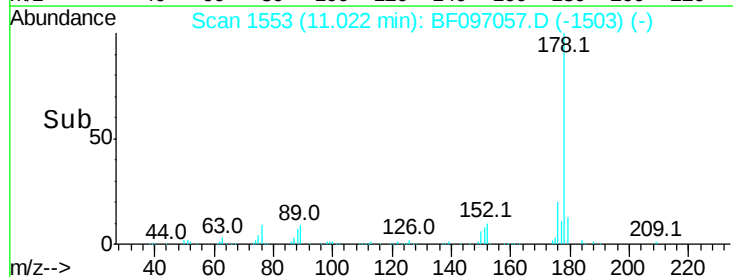
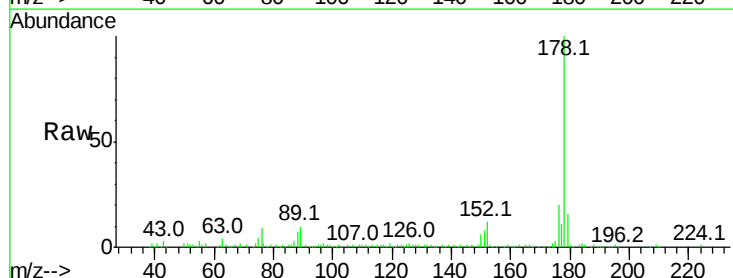
Manual Integrations
APPROVED

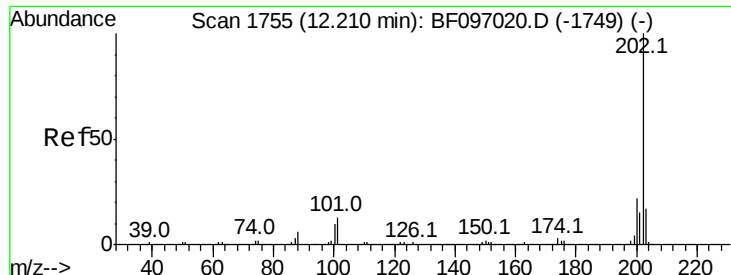
Sohil
7/26/2017 5:54:34 PM



#70
Phenanthrene
Concen: 6.389 ng
RT: 11.02 min Scan# 1553
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	16.2	24.4
179	15.7	12.6	19.0





#74

Fluoranthene

Concen: 7.607 ng

RT: 12.20 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampleId :

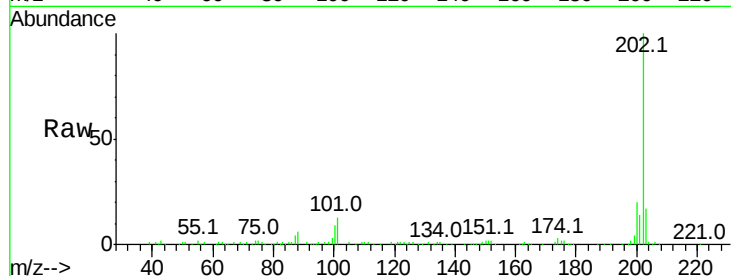
E2-N5-BASE

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.8	0.0	33.2
203	17.2	0.0	38.1

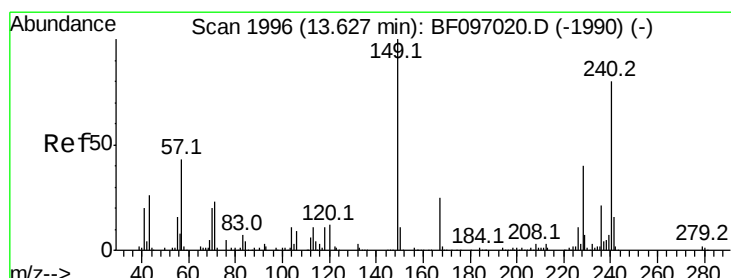
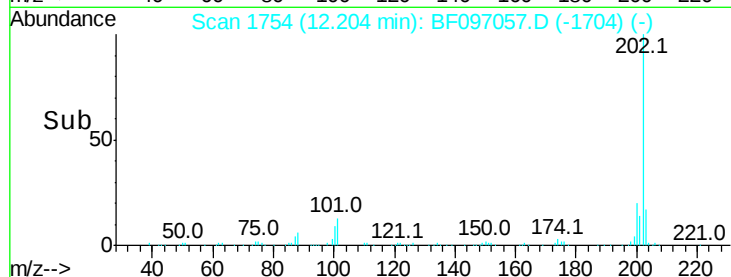
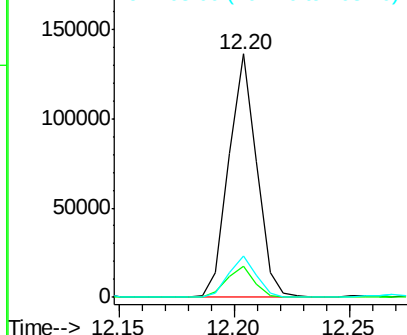
Manual Integrations
APPROVED

Sohil

7/26/2017 5:54:34 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



#75

Chrysene-d12

Concen: 20.000 ng

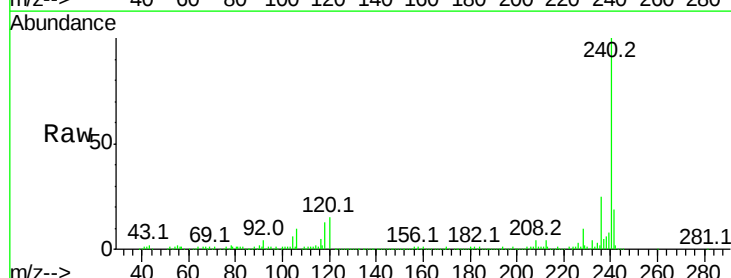
RT: 13.62 min Scan# 1995

Delta R.T. -0.01 min

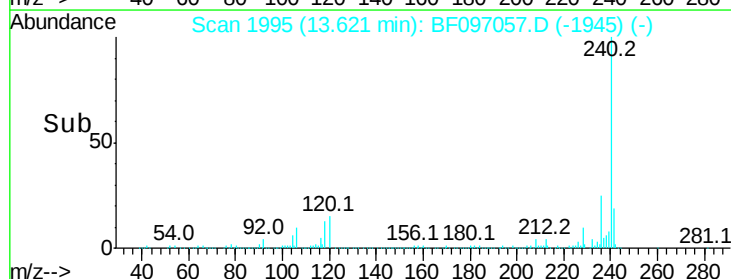
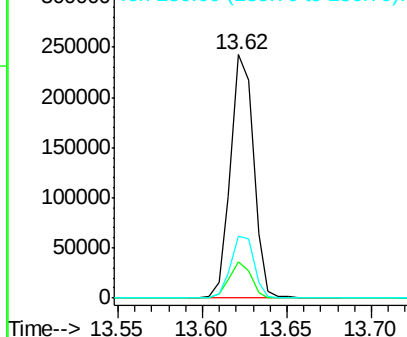
Lab File: BF097057.D

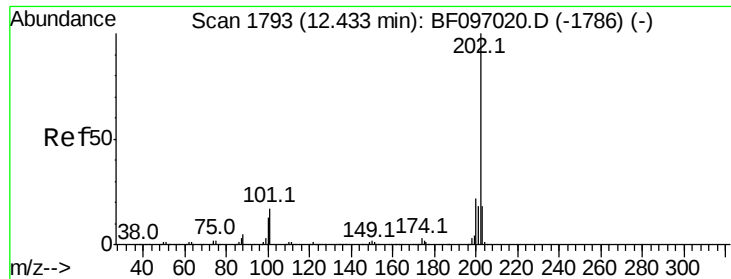
Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	15.1	5.8	8.8#
236	25.5	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





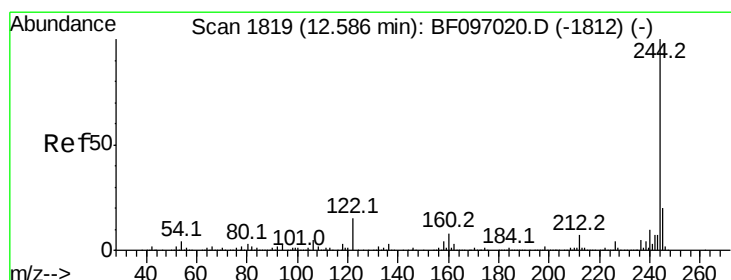
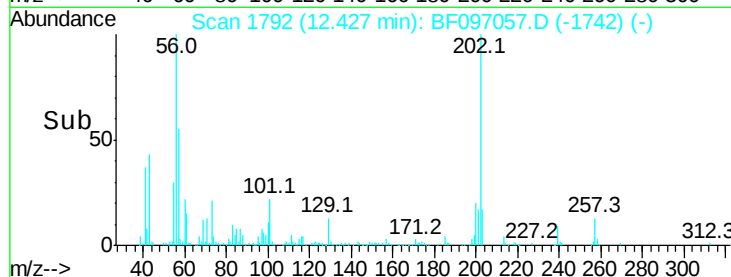
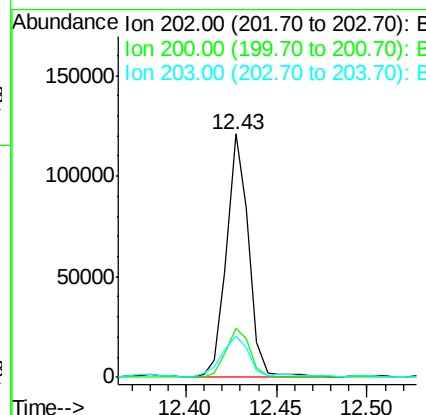
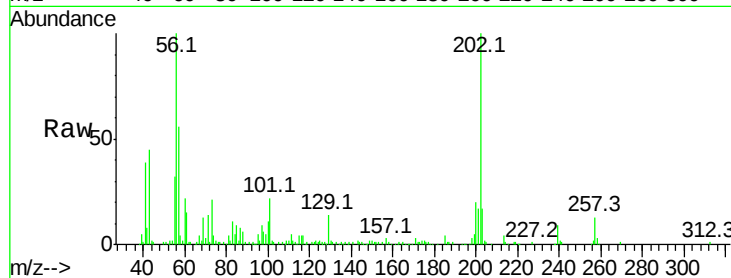
#77
Pvrene
Concen: 5.361 ng
RT: 12.43 min Scan# 1792
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampleId :
E2-N5-BASE

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.2	17.6	26.4
203	17.2	14.4	21.6

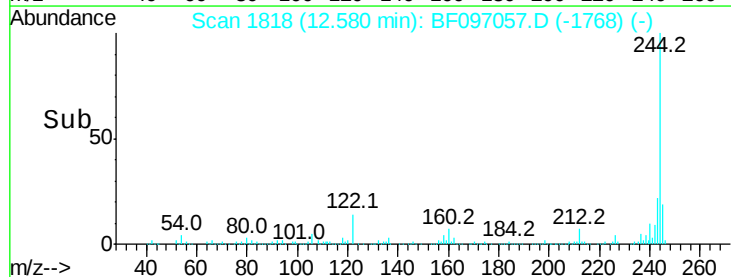
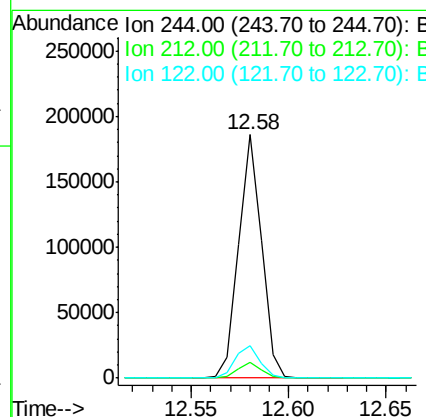
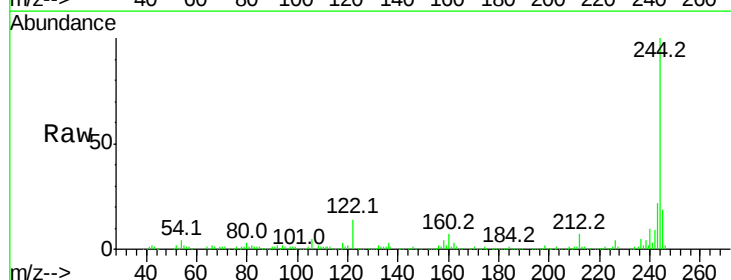
Manual Integrations
APPROVED

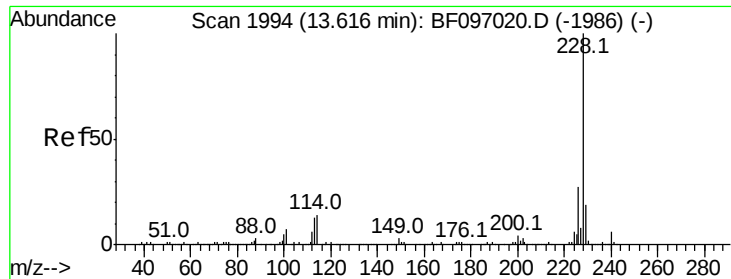
Sohil
7/26/2017 5:54:34 PM



#78
Terphenyl-d14
Concen: 13.414 ng
RT: 12.58 min Scan# 1818
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.6	6.0	9.0
122	13.5	10.3	15.5





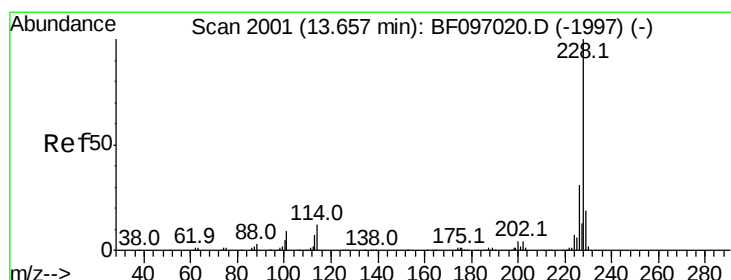
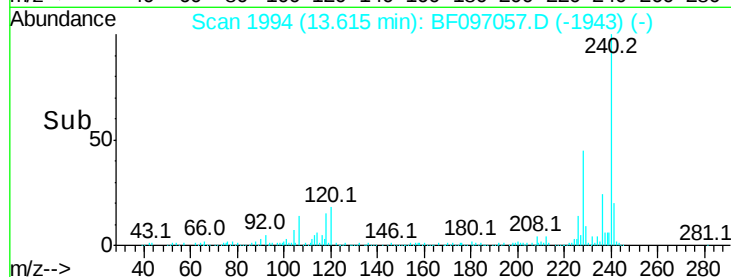
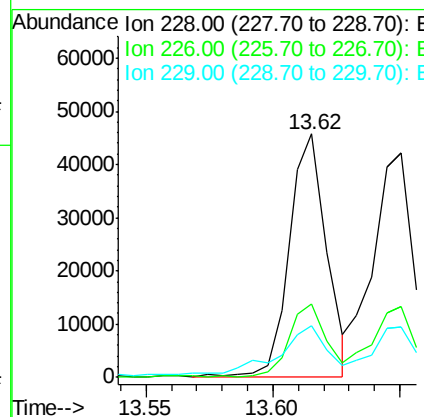
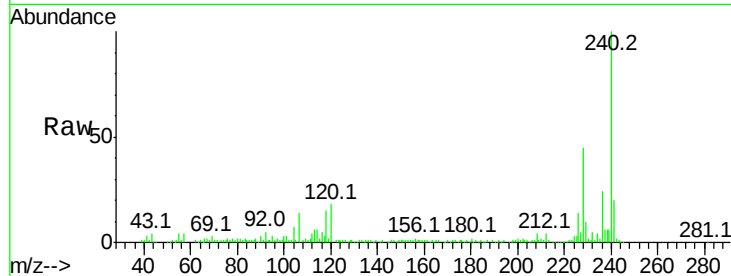
#80
Benzo(a)anthracene
Concen: 3.147 ng
RT: 13.62 min Scan# 1994
Delta R.T. -0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampleId :
E2-N5-BASE

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.6	33.8
229	21.4	16.3	24.5

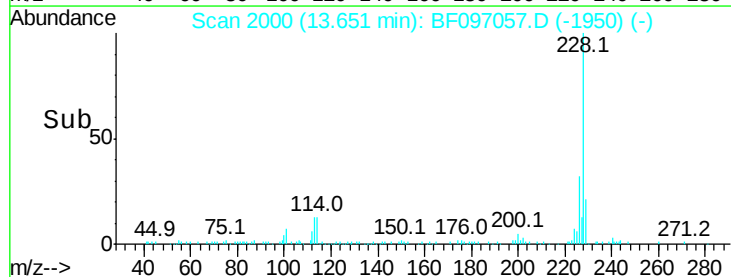
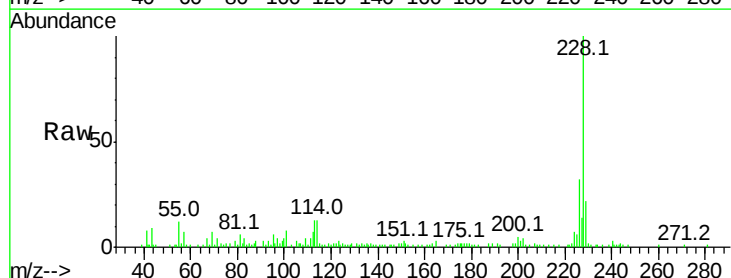
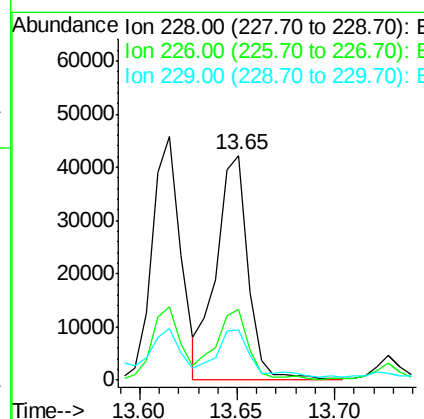
Manual Integrations
APPROVED

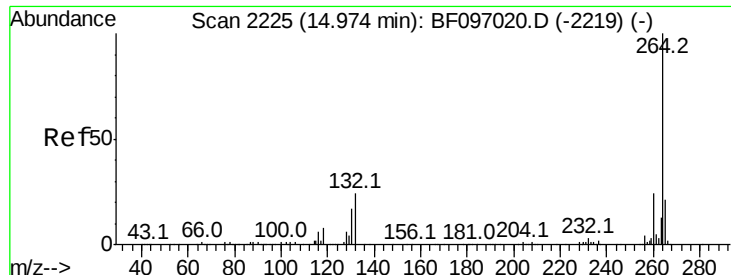
Sohil
7/26/2017 5:54:34 PM



#82
Chrysene
Concen: 3.308 ng
RT: 13.65 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.9	37.3
229	22.5	15.8	23.6





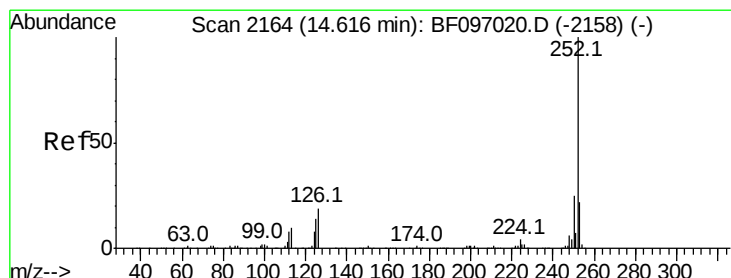
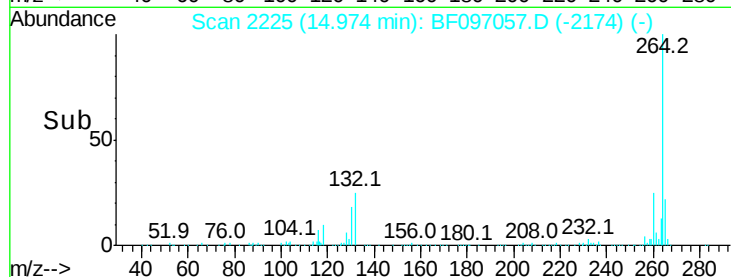
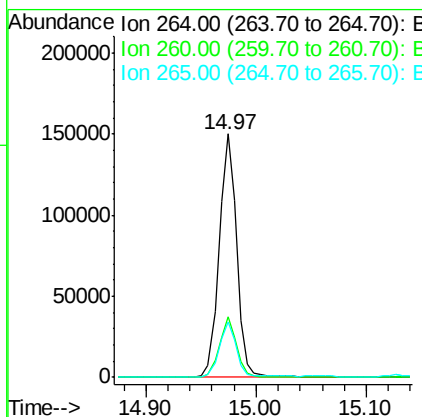
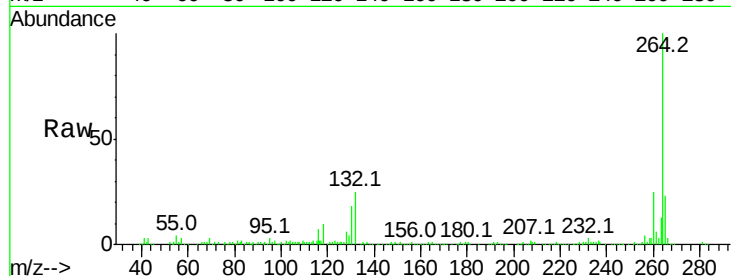
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.97 min Scan# 2225
Delta R.T. -0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampleId :
E2-N5-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	22.7	17.2	25.8

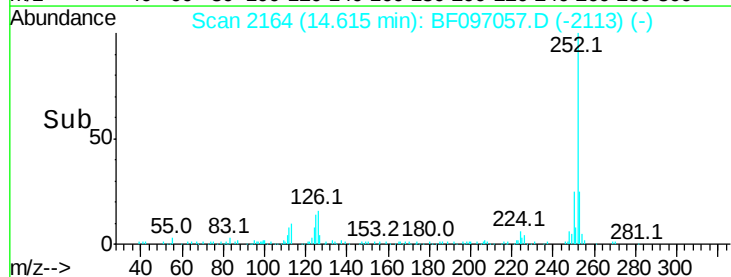
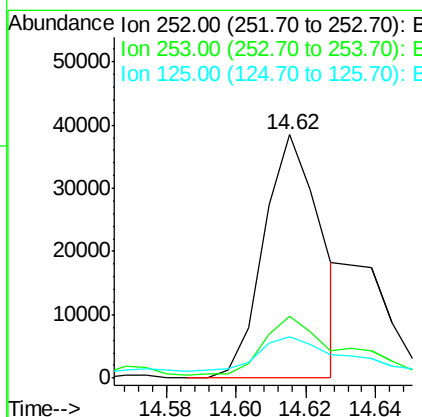
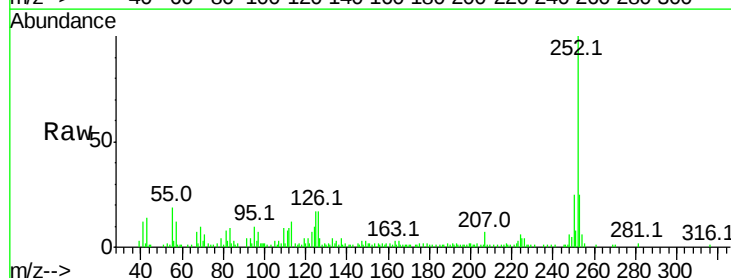
Manual Integrations
APPROVED

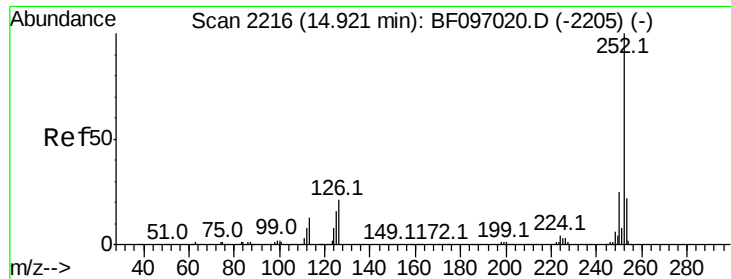
Sohil
7/26/2017 5:54:34 PM



#87
Benzo(b)fluoranthene
Concen: 4.351 ng m
RT: 14.62 min Scan# 2164
Delta R.T. -0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	18.1	27.1
125	17.0	9.8	14.8#





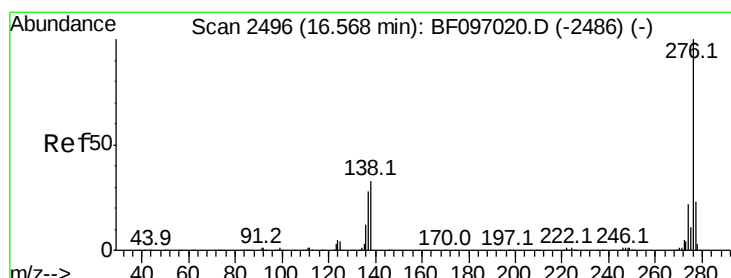
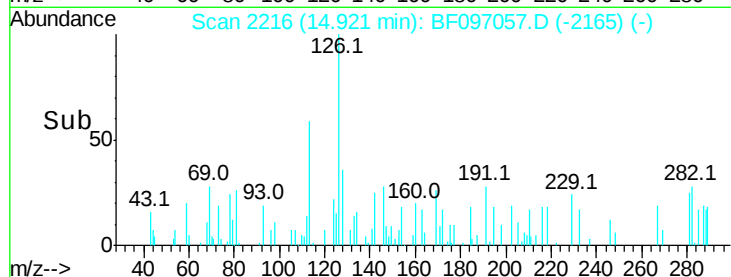
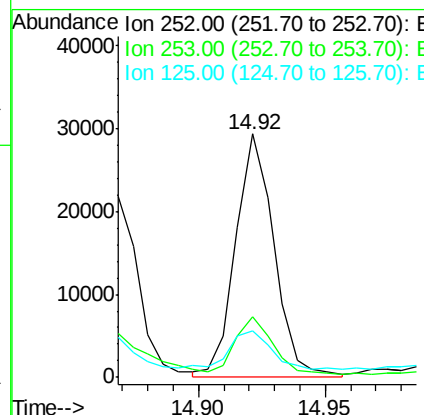
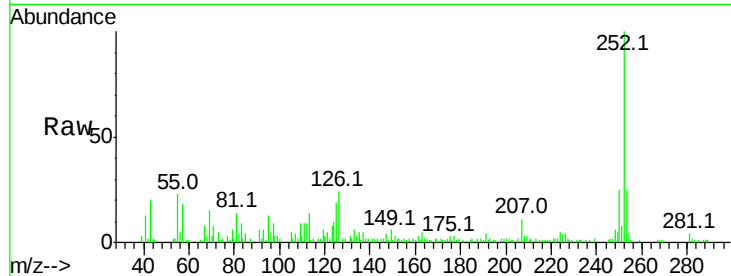
#89
Benzo(a)pyrene
Concen: 3.398 ng
RT: 14.92 min Scan# 2216
Delta R.T. -0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampleId :
E2-N5-BASE

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	24.8	17.5	26.3
125	18.8	11.0	16.4

Manual Integrations
APPROVED

Sohil
7/26/2017 5:54:34 PM



#91
Benzo(g,h,i)perylene
Concen: 2.236 ng
RT: 16.56 min Scan# 2495
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	27.7	18.6	28.0
138	29.1	25.4	38.0

