

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081117\
 Data File : BF097617.D
 Acq On : 12 Aug 2017 3:20
 Operator : SJ/JU
 Sample : I4717-01 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

Manual Integrations
 APPROVED

sohil
 8/14/2017 6:54:50 PM

Quant Time: Aug 14 11:02:41 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 11 15:55:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	86257	20.00	ng	0.00
21) Naphthalene-d8	9.54	136	310464	20.00	ng	0.00
38) Acenaphthene-d10	12.37	164	127645	20.00	ng	0.00
63) Phenanthrene-d10	14.76	188	193854	20.00	ng	0.00
75) Chrysene-d12	18.46	240	169607	20.00	ng	0.00
86) Perylene-d12	20.13	264	168233	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	4569m	0.84	ng	0.26
7) Phenol-d6	7.27	99	9604m	1.43	ng	0.21
23) Nitrobenzene-d5	8.52	82	3978m	0.80	ng	0.10
41) 2,4,6-Tribromophenol	13.70	330	844	0.87	ng	0.04
44) 2-Fluorobiphenyl	11.33	172	12130	1.43	ng	0.00
78) Terphenyl-d14	17.12	244	7893	0.96	ng	0.00
Target Compounds						
48) Acenaphthylene	12.15	152	31587	2.363	ng	Qvalue 97
57) Fluorene	13.26	166	29351	3.182	ng	96
70) Phenanthrene	14.80	178	242800	21.746	ng	99
71) Anthracene	14.89	178	66676	5.837	ng	98
74) Fluoranthene	16.57	202	251977	24.975	ng	100
77) Pyrene	16.87	202	221312	15.779	ng	97
80) Benzo(a)anthracene	18.45	228	116702	11.781	ng	94
82) Chrysene	18.50	228	103134	10.468	ng	97
85) Indeno(1,2,3-cd)pyrene	21.36	276	54849	7.157	ng	97
87) Benzo(b)fluoranthene	19.73	252	120126m	11.891	ng	
88) Benzo(k)fluoranthene	19.76	252	47063m	4.626	ng	
89) Benzo(a)pyrene	20.08	252	104947	11.318	ng	96
90) Dibenzo(a,h)anthracene	21.36	278	14335	2.159	ng	# 77
91) Benzo(g,h,i)perylene	21.71	276	51906	7.127	ng	93

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

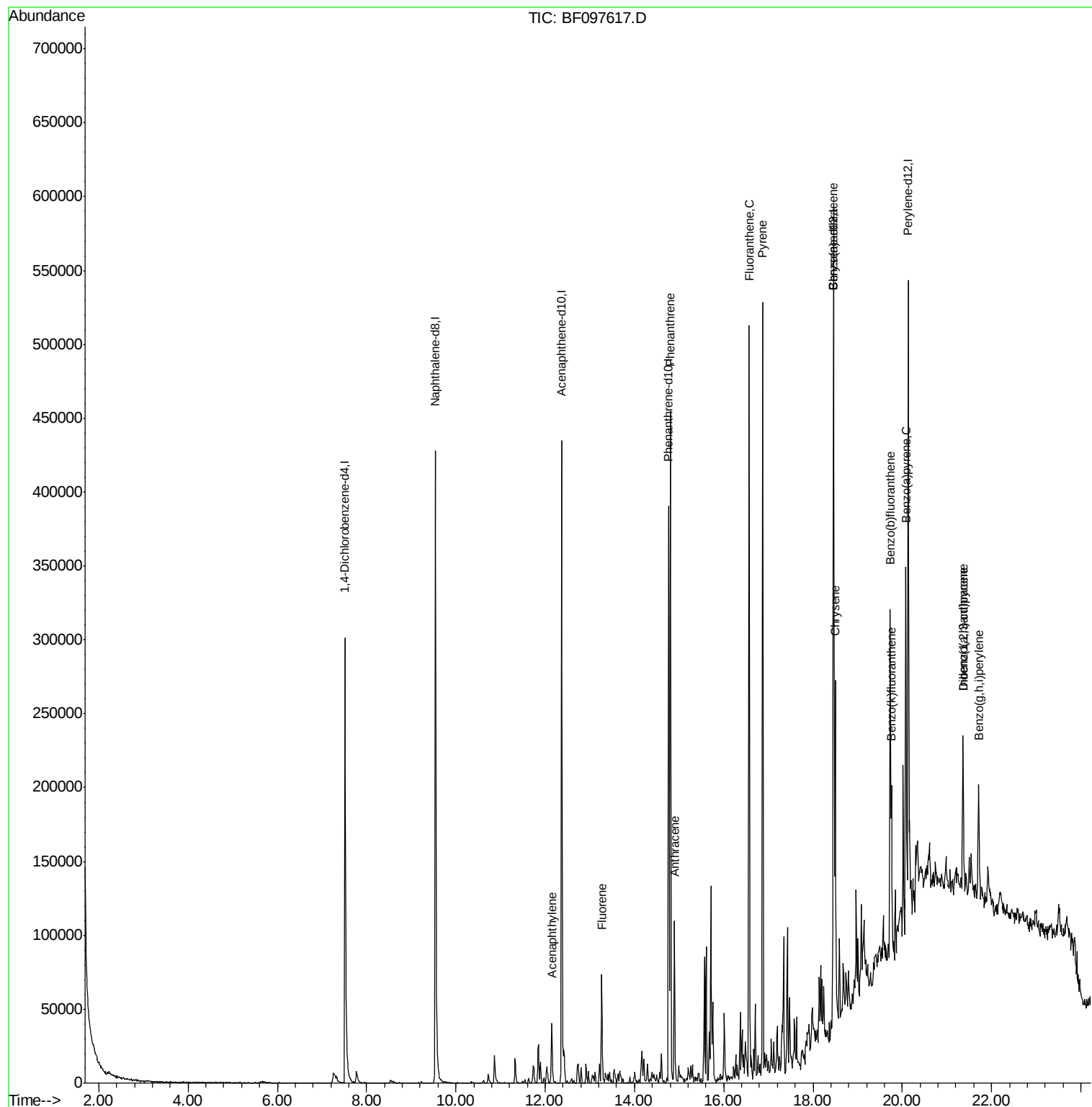
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081117\
Data File : BF097617.D
Acq On : 12 Aug 2017 3:20
Operator : SJ/JU
Sample : I4717-01 50X
Misc :
ALS Vial : 20 Sample Multiplier: 1

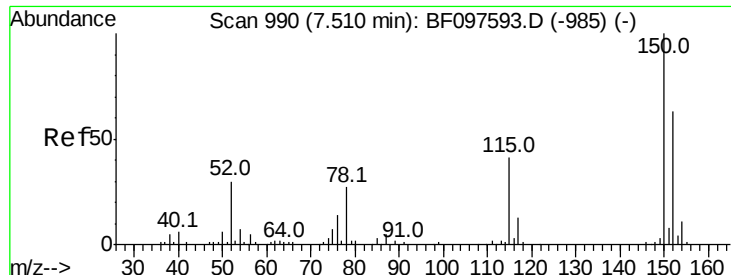
Instrument :
BNA_F
ClientSampleId :
OK-02-081017

Manual Integrations
APPROVED

sohil
8/14/2017 6:54:50 PM

Quant Time: Aug 14 11:02:41 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 11 15:55:57 2017
Response via : Initial Calibration





#1

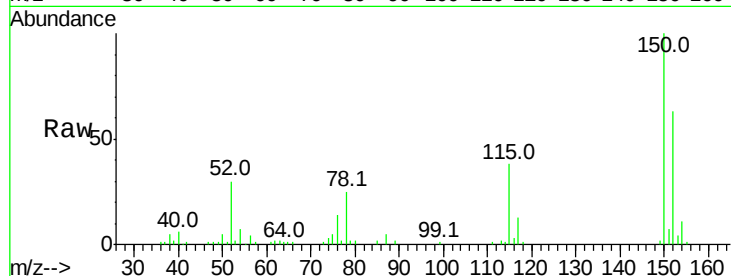
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 991
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Instrument :
BNA_F
ClientSampled :
OK-02-081017

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.3	126.2	189.2
115	61.3	52.2	78.2

Manual Integrations
APPROVED

sohil
8/14/2017 6:54:50 PM

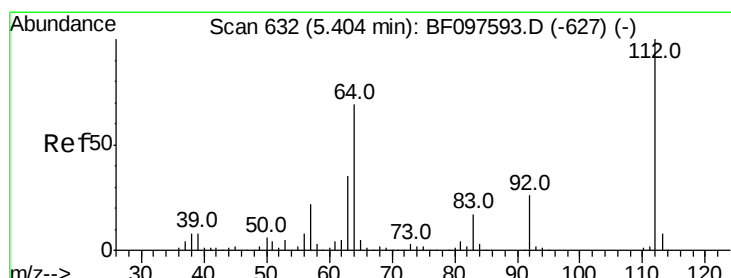
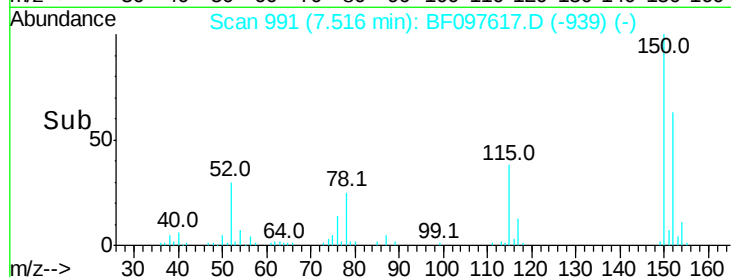
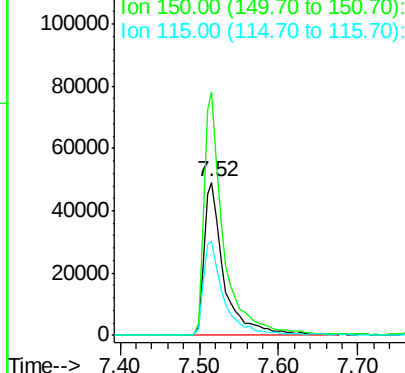


Abundance

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: 0.842 ng m
RT: 5.66 min Scan# 676
Delta R.T. 0.26 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

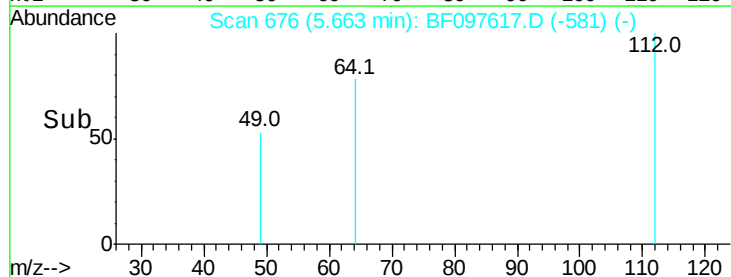
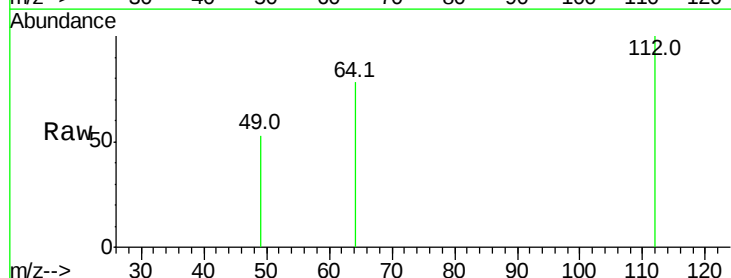
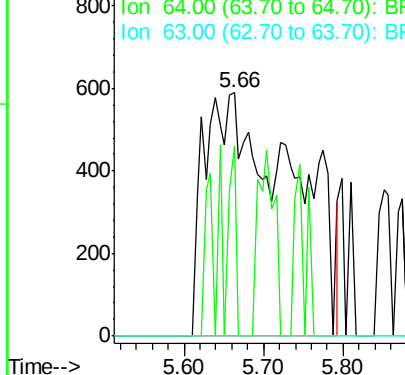
Tgt Ion	Ratio	Lower	Upper
112	100		
64	78.0	46.0	69.0#
63	0.0	23.4	35.0#

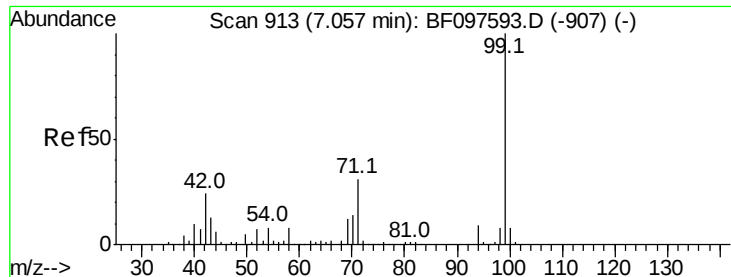
Abundance

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

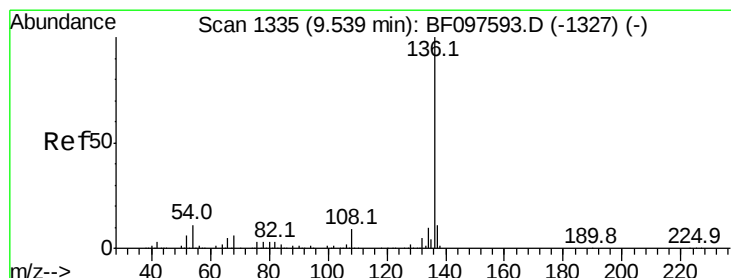
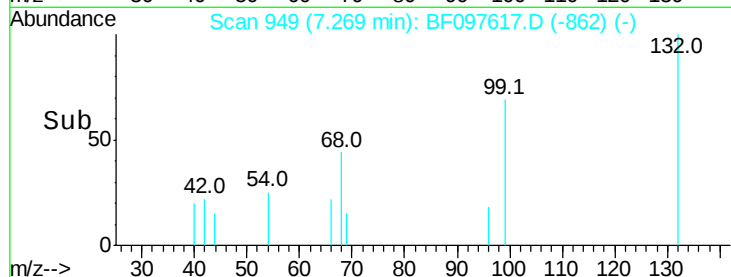
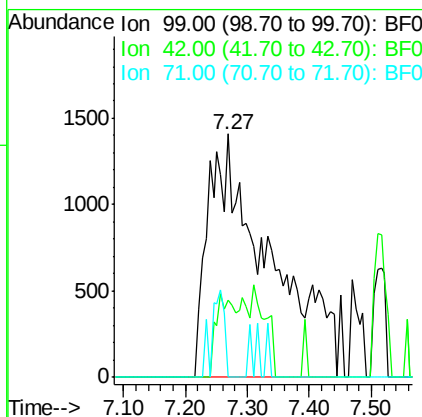
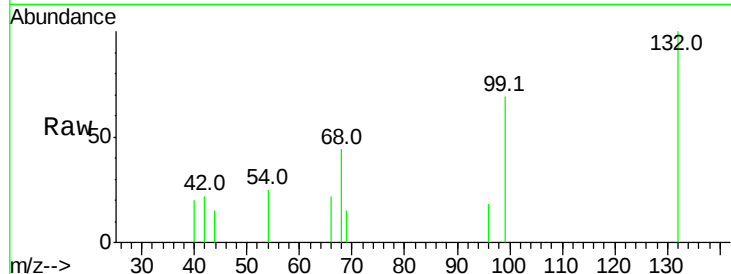
Concen: 1.427 ng/ml
 RT: 7.27 min Scan# 949
 Delta R.T. 0.21 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

Tot Ion	Ratio	Lower	Upper
99	100		
42	31.7	13.5	20.3#
71	0.0	24.5	36.7#

Manual Integrations
 APPROVED

sohil
 8/14/2017 6:54:50 PM

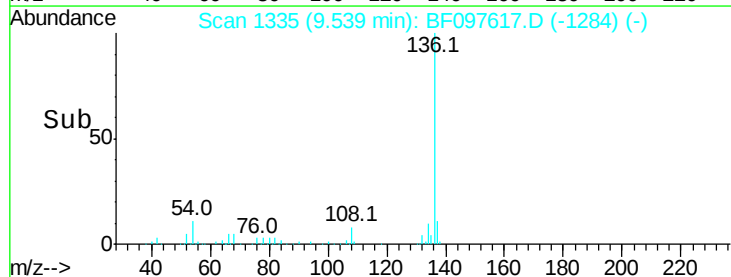
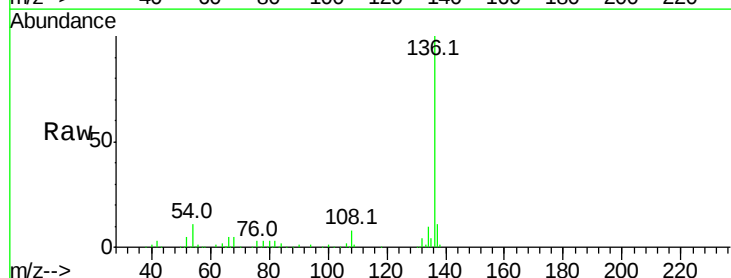
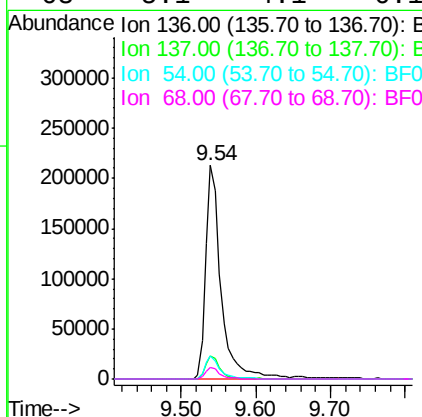


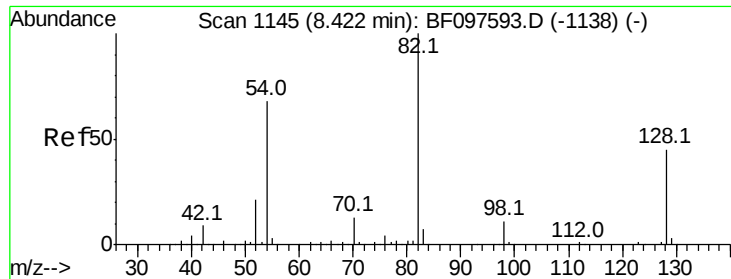
#21

Naphthalene-d8

Concen: 20.000 ng
 RT: 9.54 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	11.1	4.9	7.3#
68	5.1	4.1	6.1





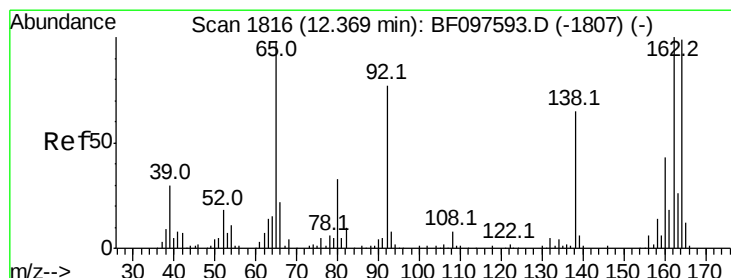
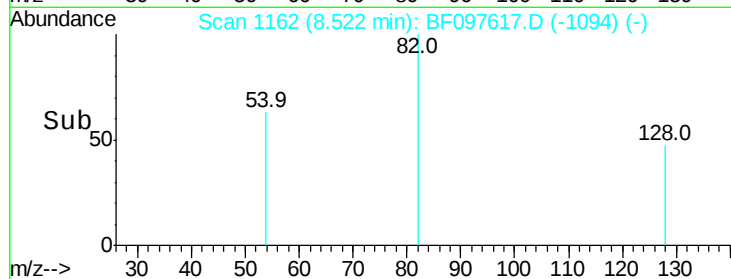
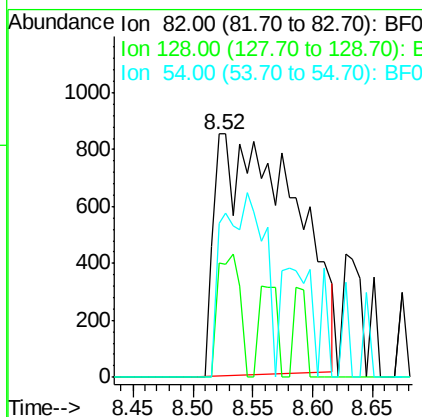
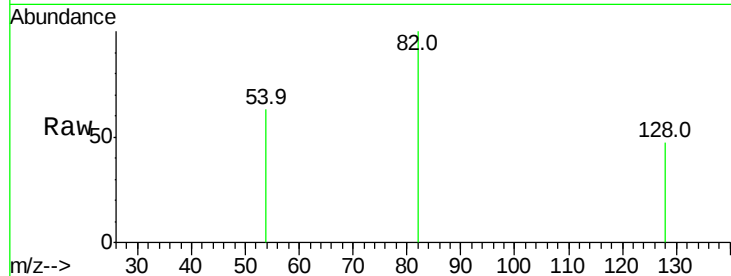
#23
 Nitrobenzene-d5
 Concen: 0.803 ng/ml
 RT: 8.52 min Scan# 1162
 Delta R.T. 0.10 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.7	34.0	51.0
54	63.0	42.2	63.2

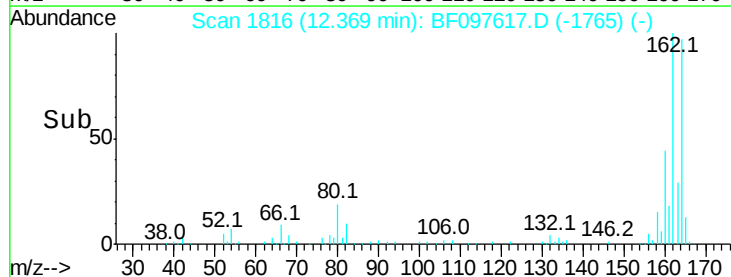
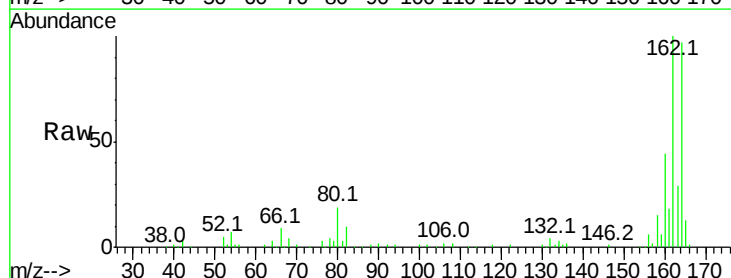
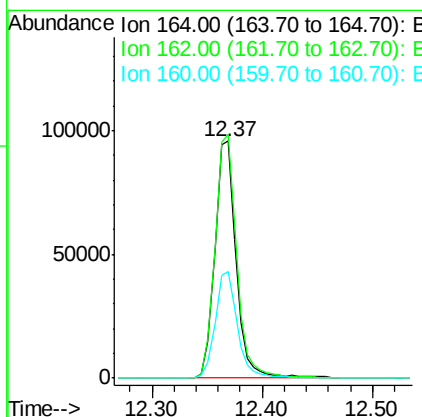
Manual Integrations
 APPROVED

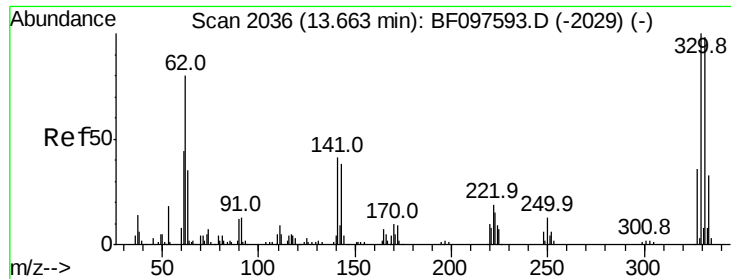
sohil
 8/14/2017 6:54:50 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 12.37 min Scan# 1816
 Delta R.T. 0.00 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.6	123.8
160	45.0	36.2	54.2





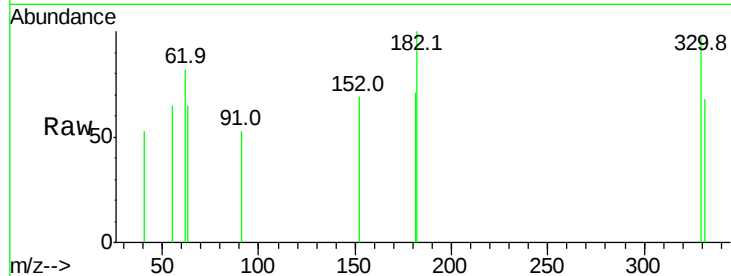
#41
 2,4,6-Tribromophenol
 Concen: 0.870 ng
 RT: 13.70 min Scan# 2043
 Delta R.T. 0.04 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

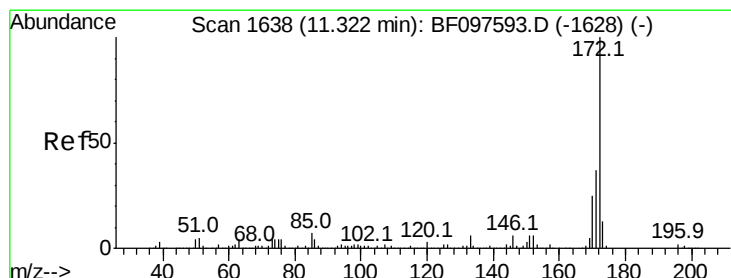
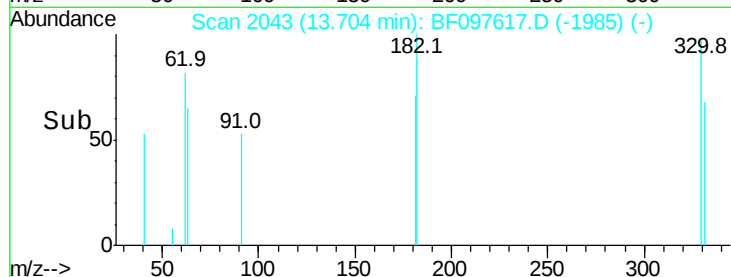
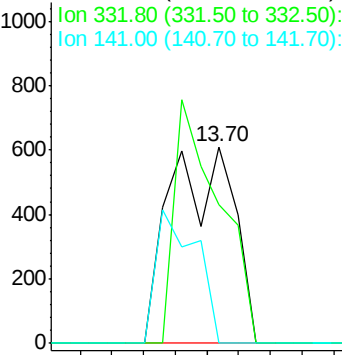
Tot Ion	Ratio	Lower	Upper
330	100		
332	87.8	76.6	115.0
141	43.2	31.4	47.2

Manual Integrations
 APPROVED

sohil
 8/14/2017 6:54:50 PM



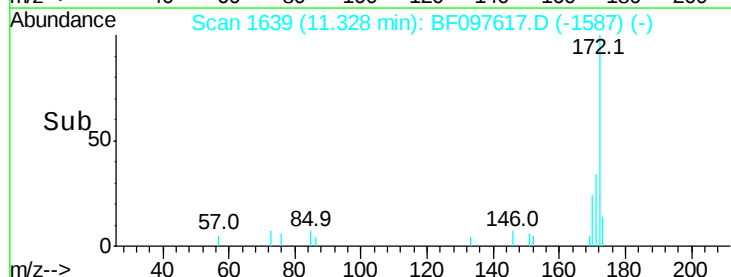
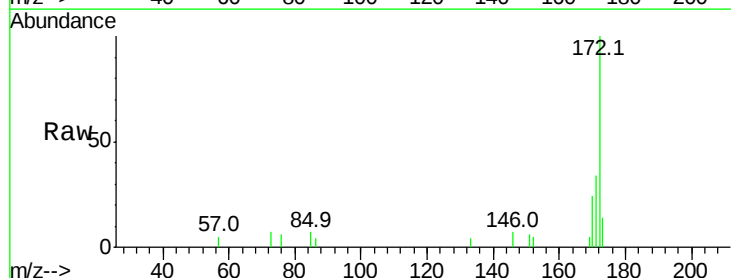
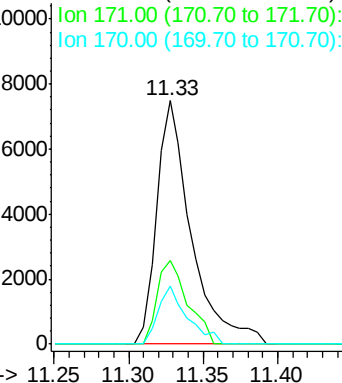
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

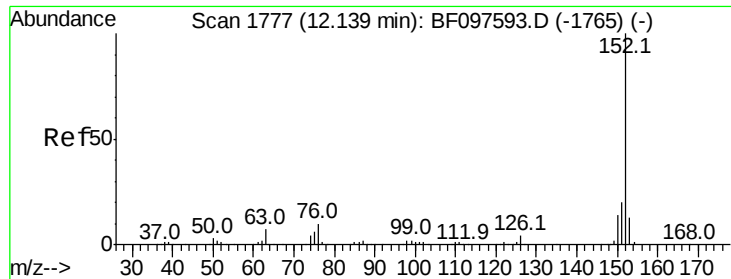


#44
 2-Fluorobiphenyl
 Concen: 1.434 ng
 RT: 11.33 min Scan# 1639
 Delta R.T. 0.01 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	29.6	44.4
170	23.8	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: 2.363 ng

RT: 12.15 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

BNA_F

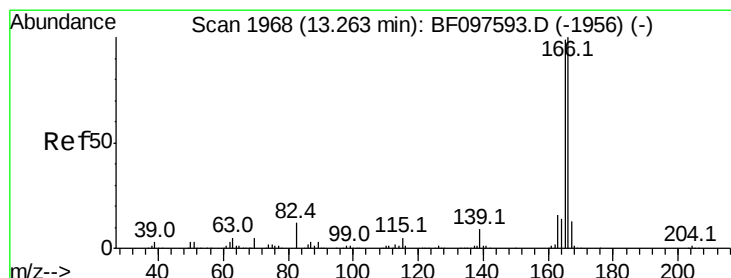
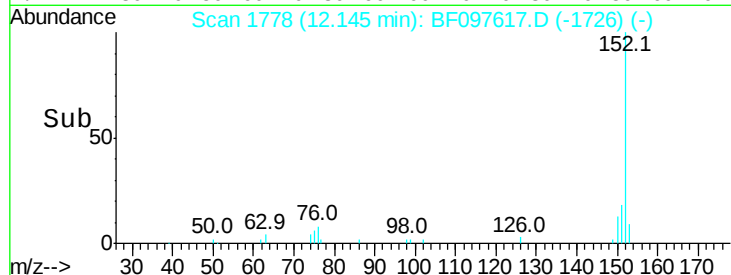
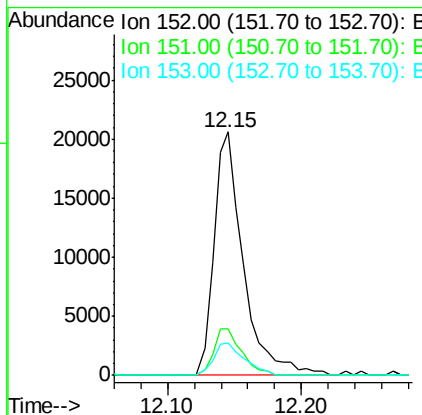
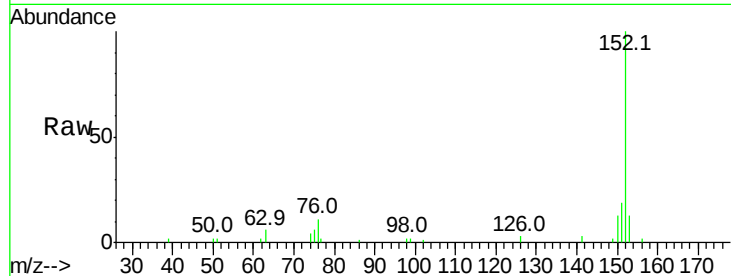
ClientSampled :

OK-02-081017

Tot Ion:	152	Resp:	31587
Ion Ratio	Lower	Upper	
152	100		
151	18.9	16.8	25.2
153	13.1	10.8	16.2

Manual Integrations
APPROVED

sohil
8/14/2017 6:54:50 PM



#57

Fluorene

Concen: 3.182 ng

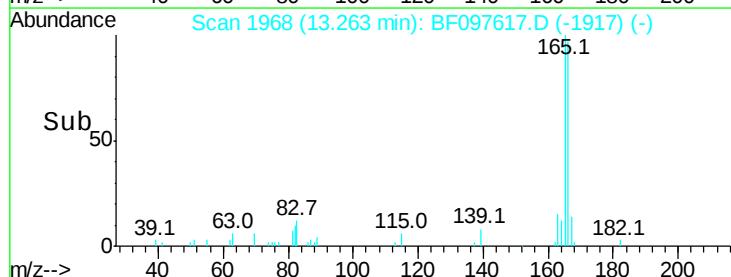
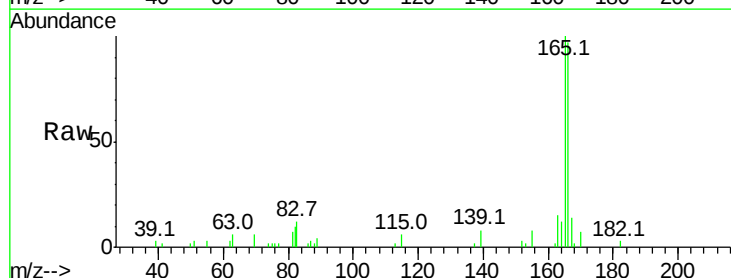
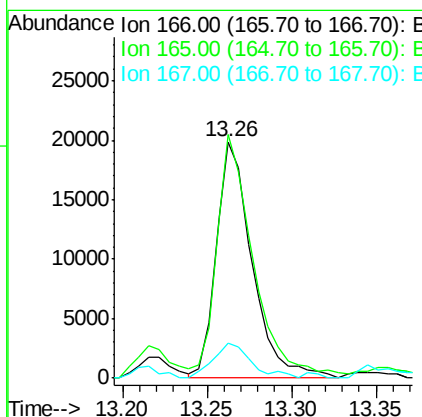
RT: 13.26 min Scan# 1968

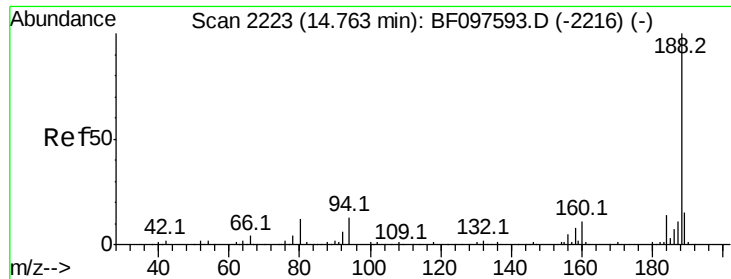
Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Tgt Ion:	166	Resp:	29351
Ion Ratio	Lower	Upper	
166	100		
165	103.0	78.8	118.2
167	14.7	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 14.76 min Scan# 2223

Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

BNA_F

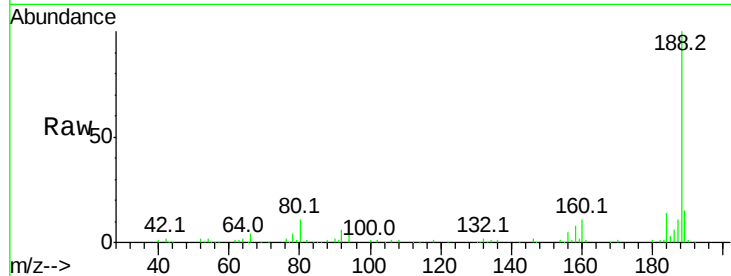
ClientSampleId :

OK-02-081017

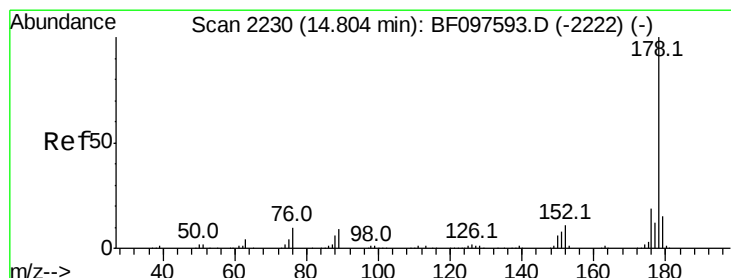
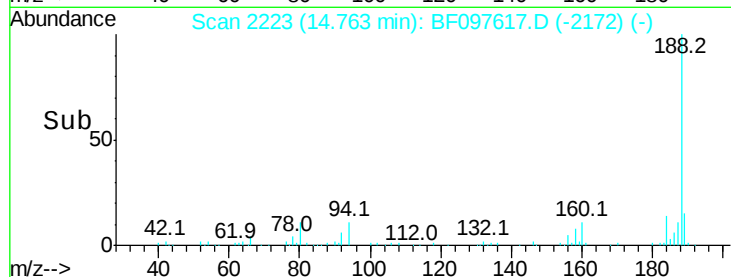
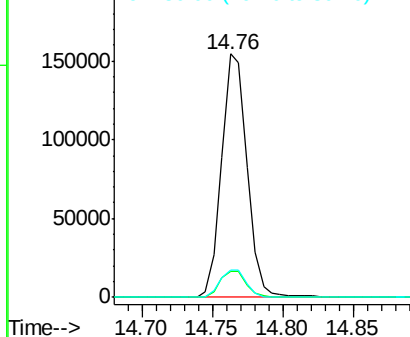
Tot Ion	Ratio	Resp	Lower	Upper
188	100	193854		
94	10.8		9.4	14.2
80	11.2		10.2	15.2

Manual Integrations
APPROVED

sohil
8/14/2017 6:54:50 PM



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 21.746 ng

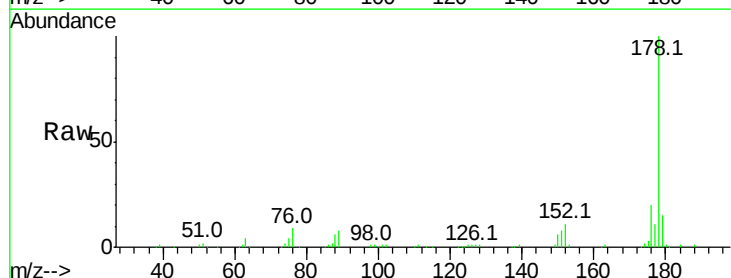
RT: 14.80 min Scan# 2230

Delta R.T. 0.00 min

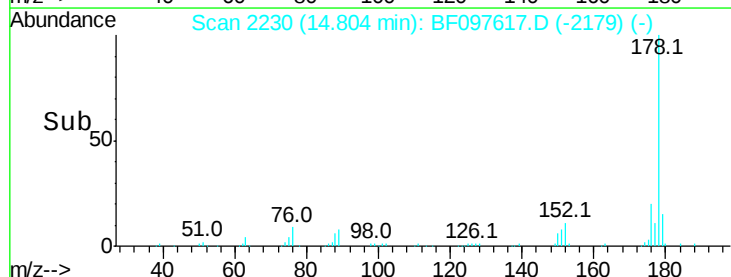
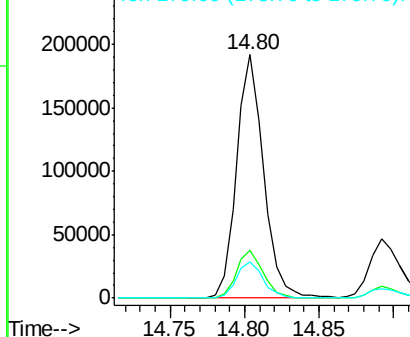
Lab File: BF097617.D

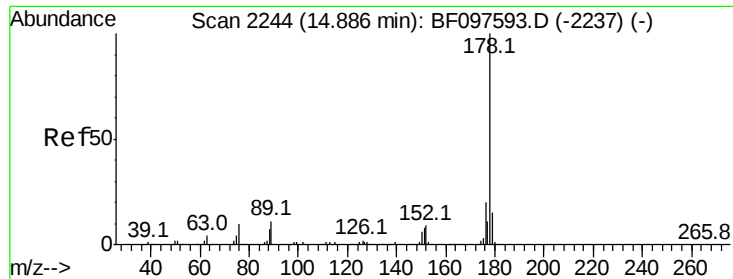
Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	242800		
176	19.8		16.2	24.4
179	15.0		12.6	19.0



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





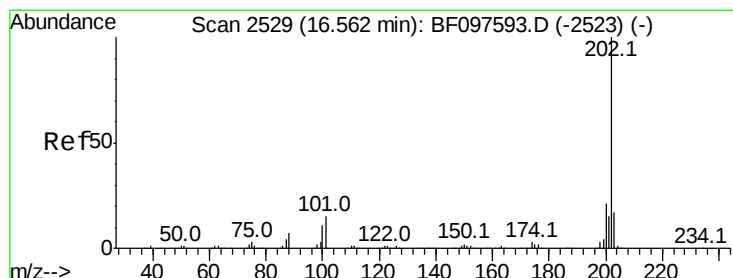
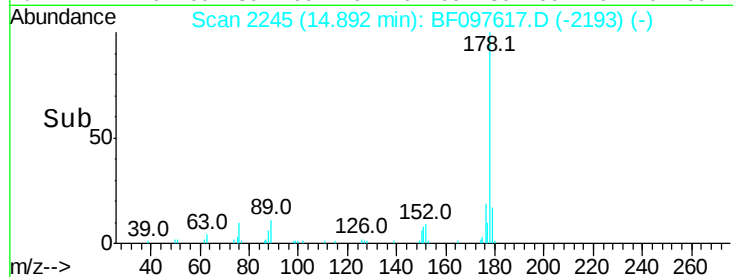
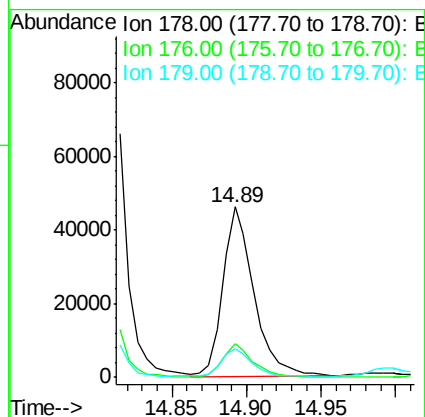
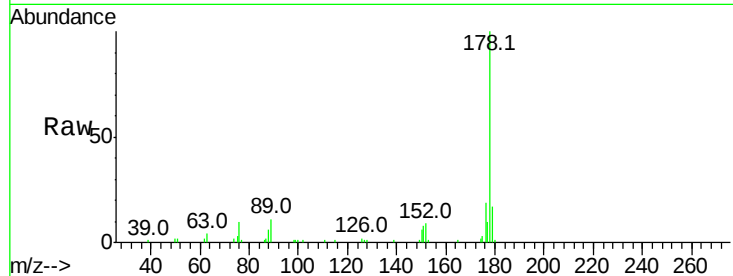
#71
 Anthracene
 Concen: 5.837 ng
 RT: 14.89 min Scan# 2245
 Delta R.T. 0.01 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	16.9	12.7	19.1

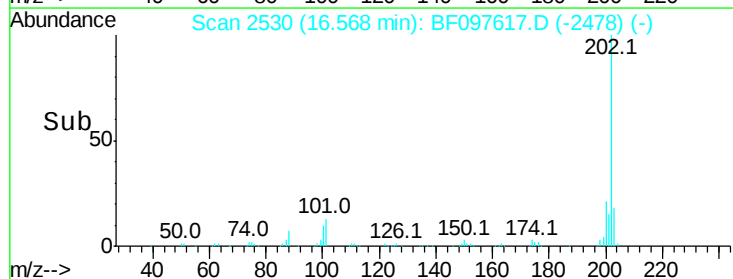
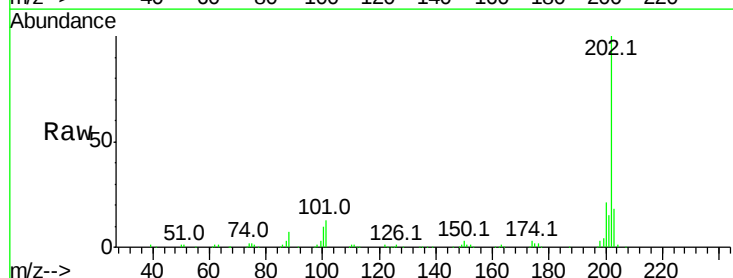
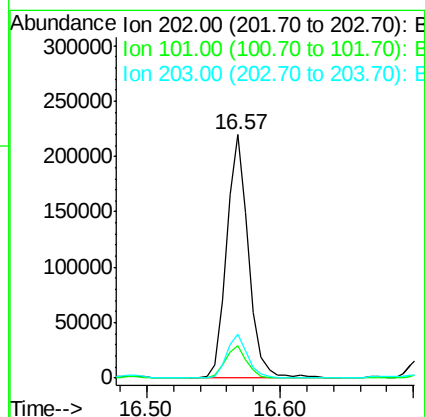
Manual Integrations
 APPROVED

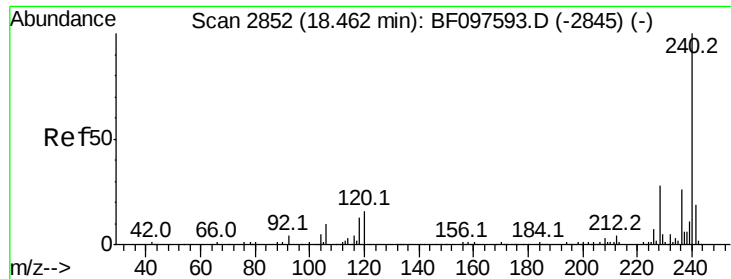
sohil
 8/14/2017 6:54:50 PM



#74
 Fluoranthene
 Concen: 24.975 ng
 RT: 16.57 min Scan# 2530
 Delta R.T. 0.01 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	33.2
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 18.46 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

BNA_F

ClientSampleId :

OK-02-081017

Tot Ion:240 Resp: 169607

Ion Ratio Lower Upper

240 100

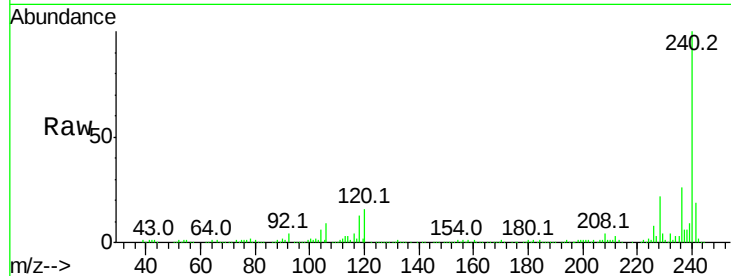
120 15.7 5.8 8.8#

236 26.2 20.5 30.7

Manual Integrations
APPROVED

sohil

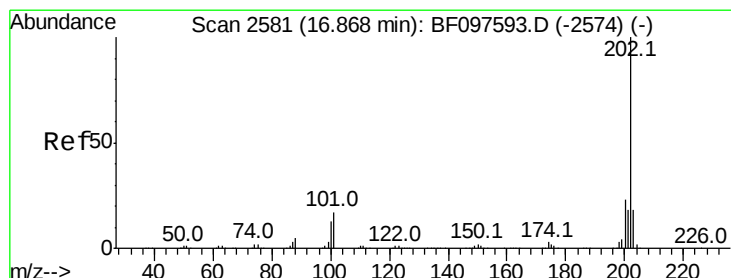
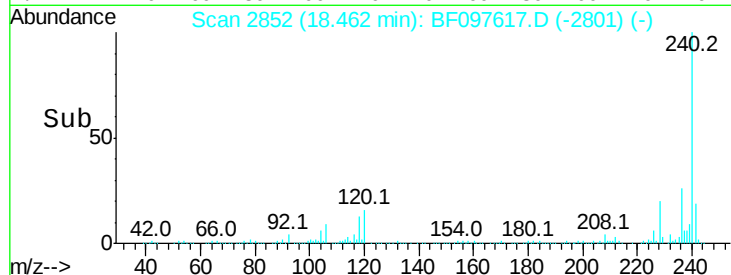
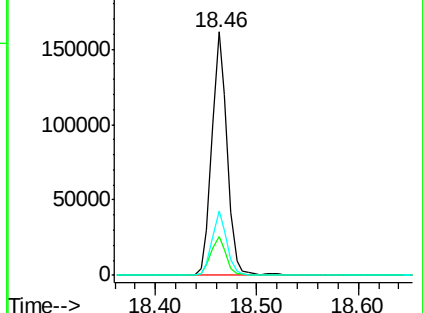
8/14/2017 6:54:50 PM



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

Pyrene

Concen: 15.779 ng

RT: 16.87 min Scan# 2581

Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

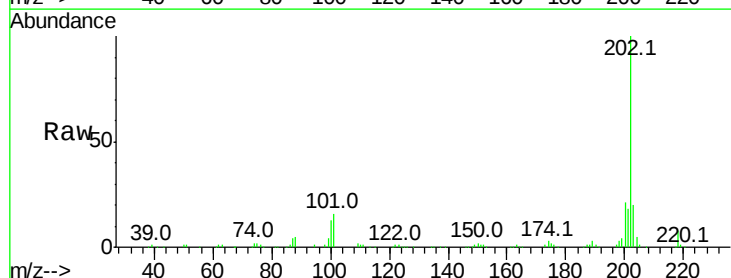
Tgt Ion:202 Resp: 221312

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

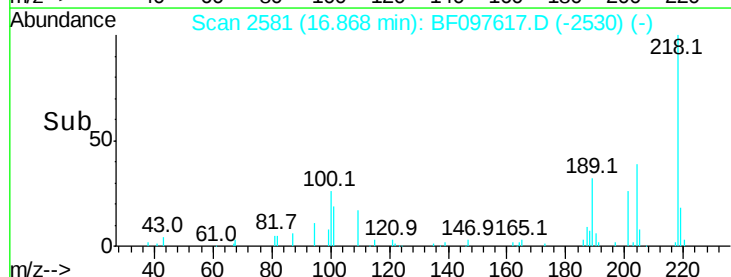
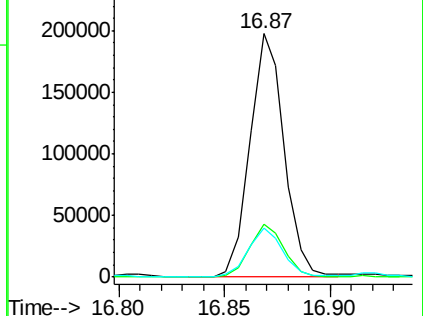
203 20.1 14.4 21.6

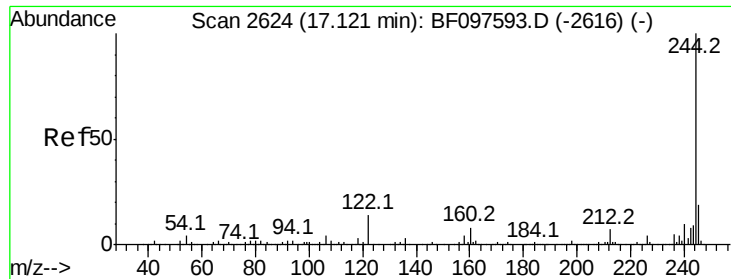


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





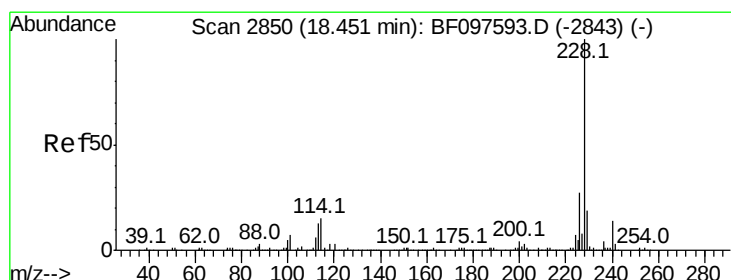
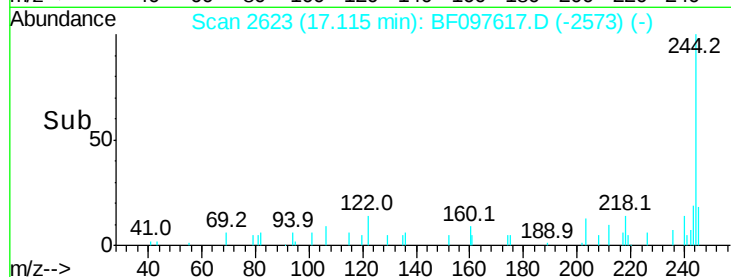
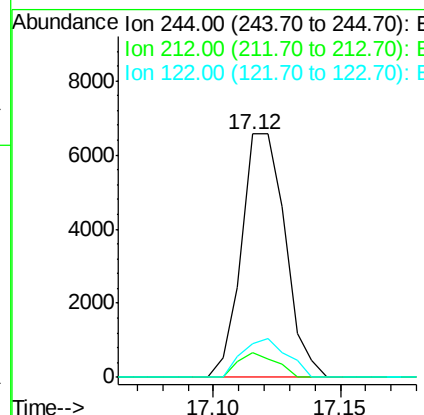
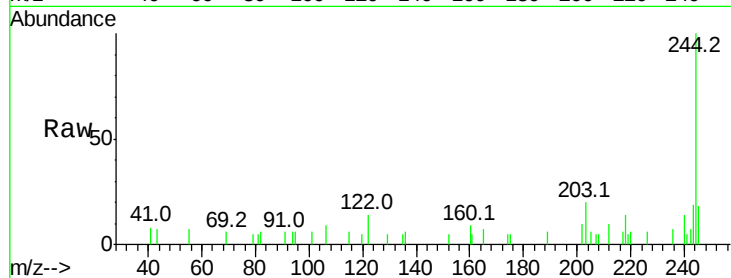
#78
 Terphenyl-d14
 Concen: 0.963 ng
 RT: 17.12 min Scan# 2623
 Delta R.T. -0.01 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081017

Tot Ion	Ratio	Lower	Upper
244	100		
212	10.0	6.0	9.0#
122	14.1	10.3	15.5

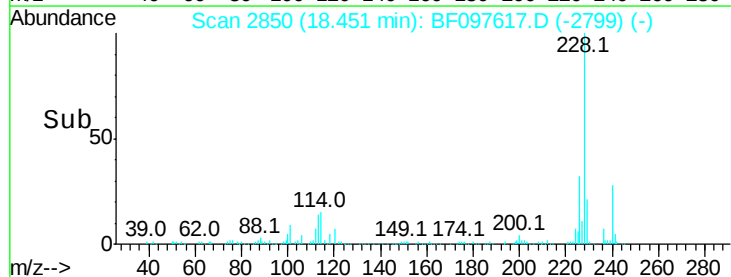
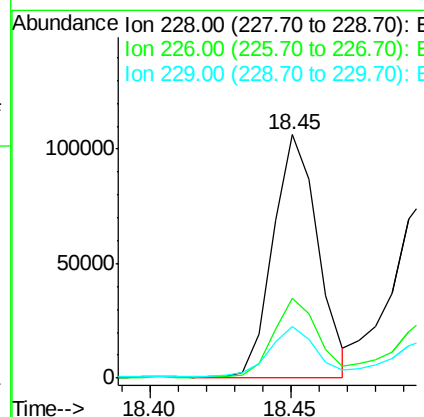
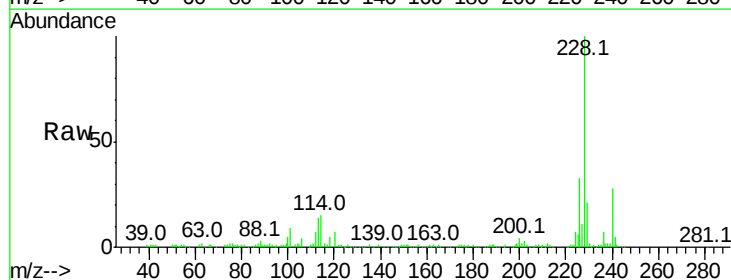
Manual Integrations
 APPROVED

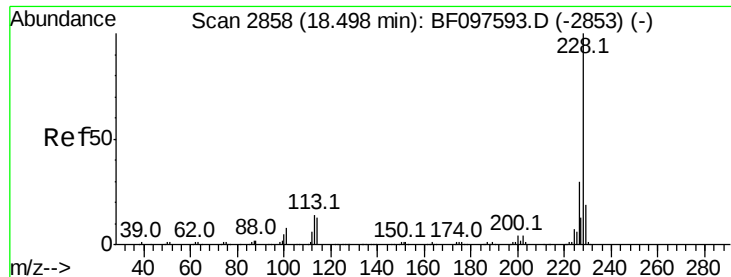
sohil
 8/14/2017 6:54:50 PM



#80
 Benzo(a)anthracene
 Concen: 11.781 ng
 RT: 18.45 min Scan# 2850
 Delta R.T. 0.00 min
 Lab File: BF097617.D
 Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.6	22.6	33.8
229	21.1	16.3	24.5





#82

Chrysene

Concen: 10.468 ng

RT: 18.50 min Scan# 2858

Delta R.T. 0.00 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Instrument :

BNA_F

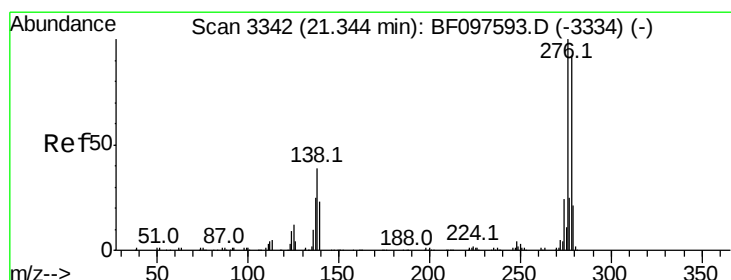
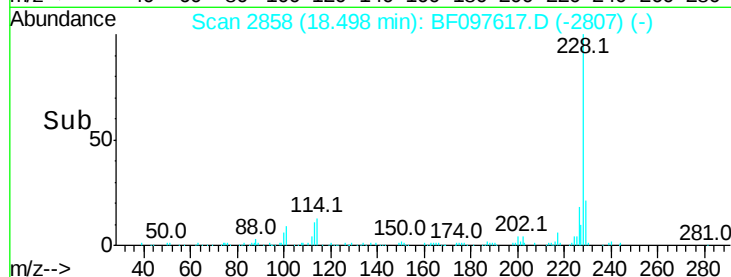
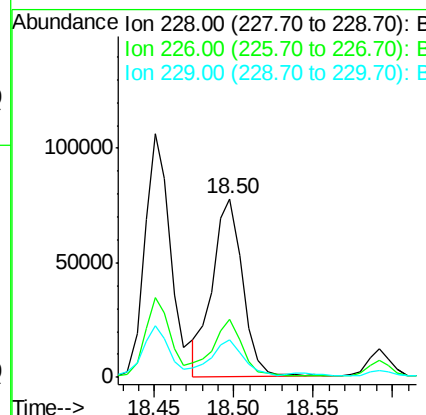
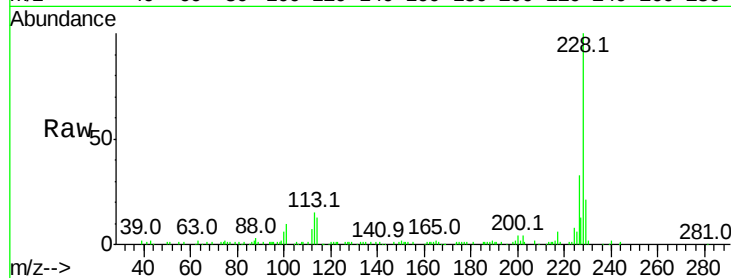
ClientSampleId :

OK-02-081017

Tot Ion:	228	Resp:	103134
Ion Ratio	Lower	Upper	
228	100		
226	32.7	24.9	37.3
229	21.0	15.8	23.6

Manual Integrations
APPROVED

sohil
8/14/2017 6:54:50 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.157 ng

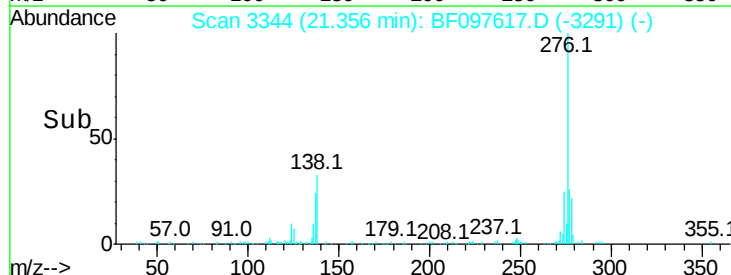
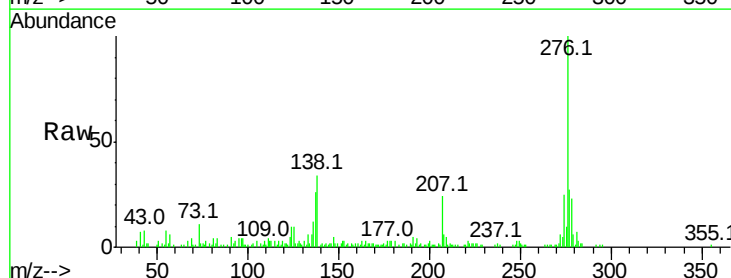
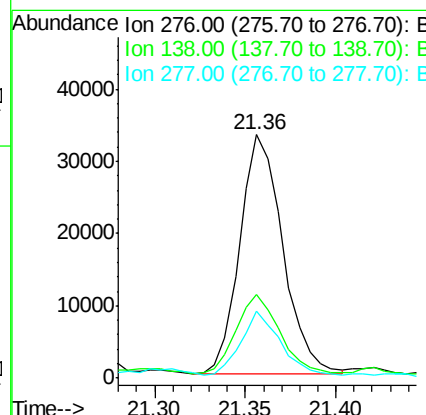
RT: 21.36 min Scan# 3344

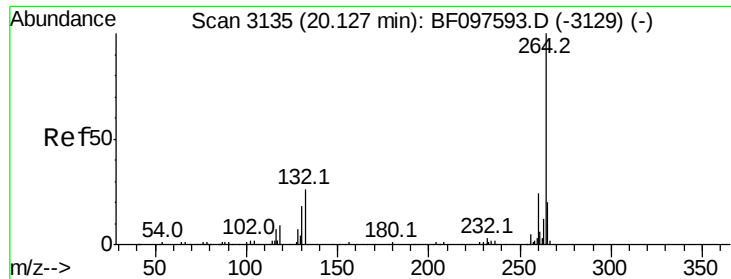
Delta R.T. 0.01 min

Lab File: BF097617.D

Acq: 12 Aug 2017 3:20

Tgt Ion:	276	Resp:	54849
Ion Ratio	Lower	Upper	
276	100		
138	33.0	27.8	41.6
277	26.4	20.2	30.4





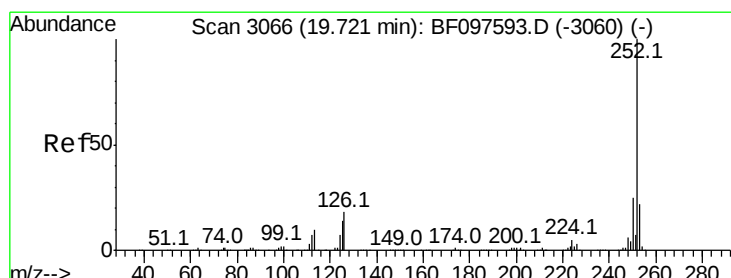
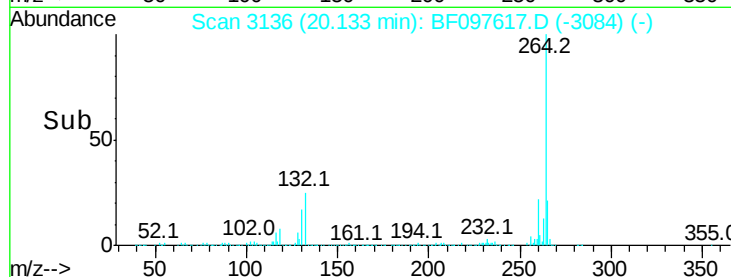
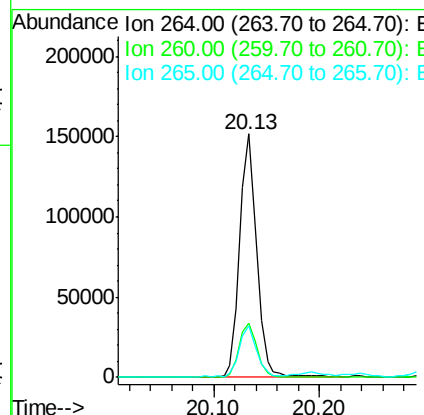
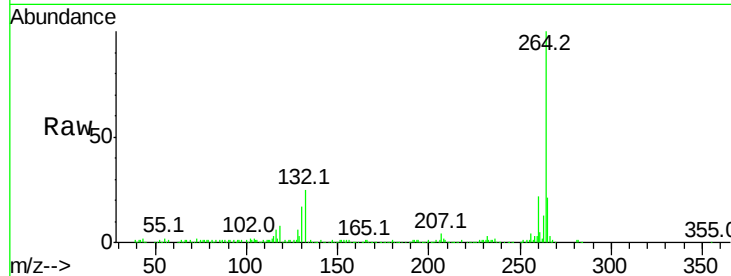
#86
Pervlene-d12
Concen: 20.000 ng
RT: 20.13 min Scan# 3136
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Instrument :
BNA_F
ClientSampleId :
OK-02-081017

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.1	19.5	29.3
265	21.2	17.2	25.8

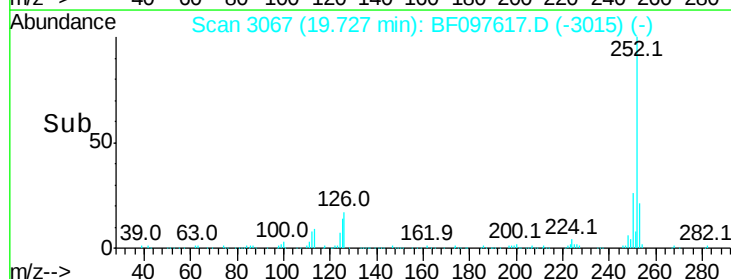
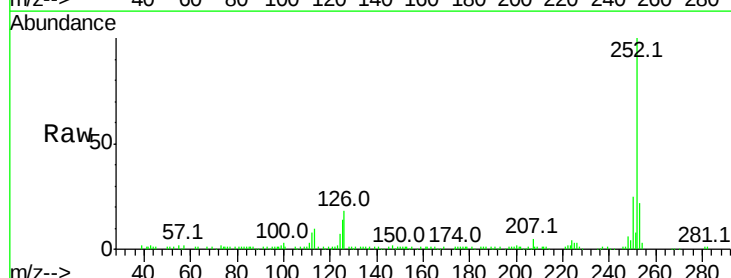
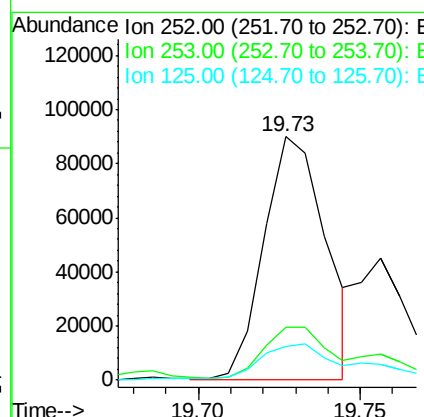
Manual Integrations
APPROVED

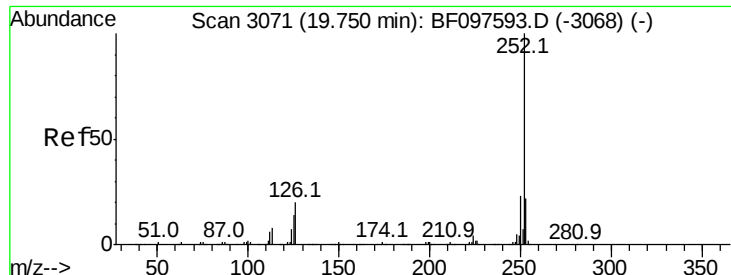
sohil
8/14/2017 6:54:50 PM



#87
Benzo(b)fluoranthene
Concen: 11.891 ng m
RT: 19.73 min Scan# 3067
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.1	27.1
125	14.1	9.8	14.8





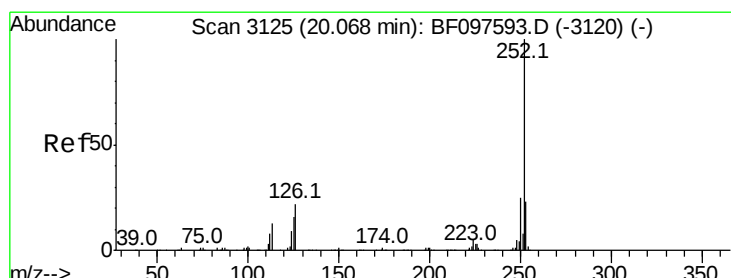
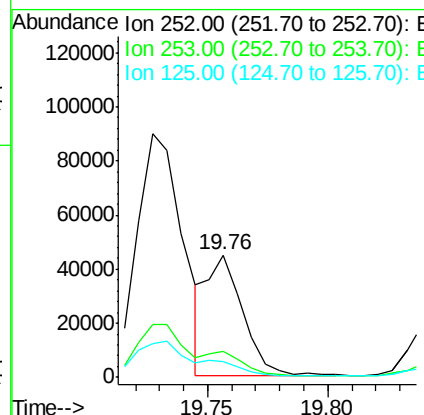
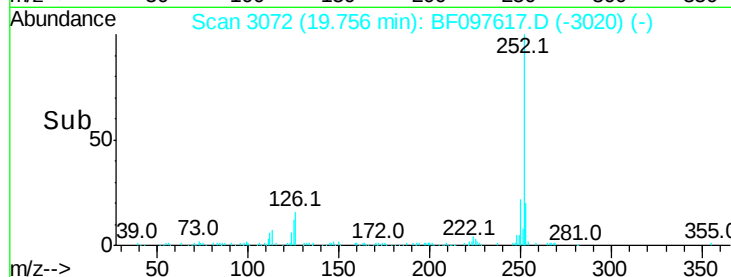
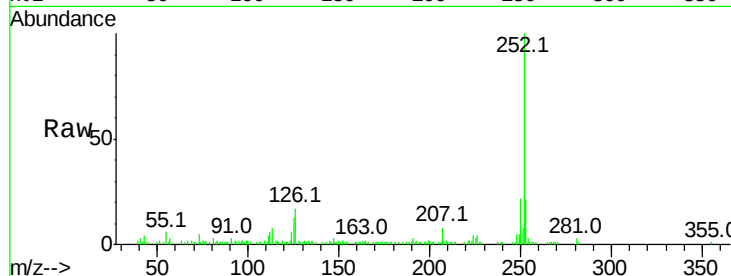
#88
Benzo(k)fluoranthene
Concen: 4.626 ng m
RT: 19.76 min Scan# 3072
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Instrument :
BNA_F
ClientSampleId :
OK-02-081017

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.0	18.4	27.6
125	12.5	13.1	19.7#

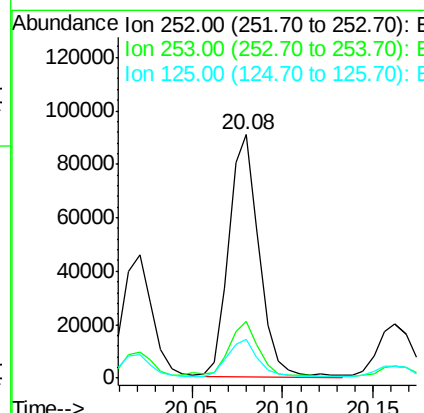
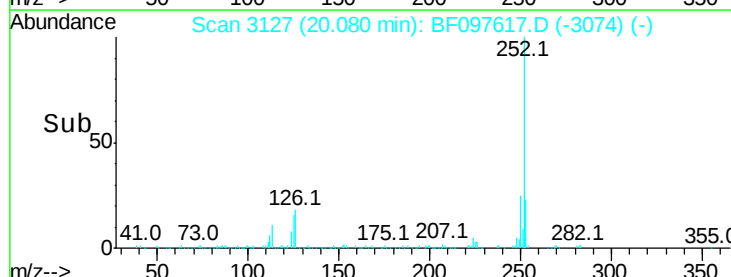
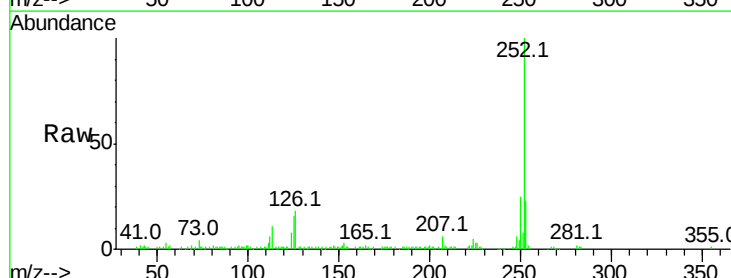
Manual Integrations
APPROVED

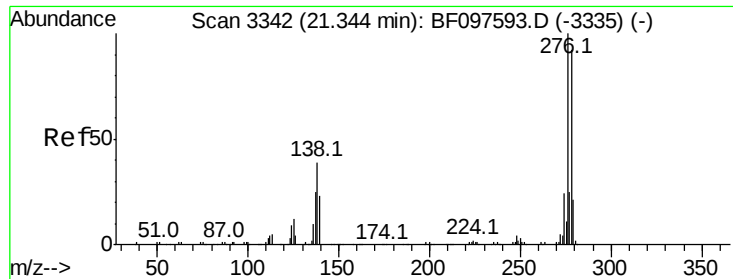
sohil
8/14/2017 6:54:50 PM



#89
Benzo(a)pyrene
Concen: 11.318 ng
RT: 20.08 min Scan# 3127
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	15.8	11.0	16.4





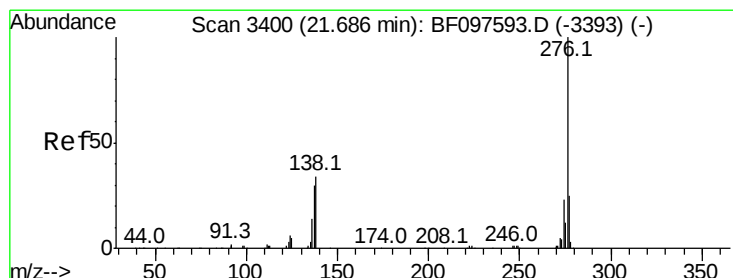
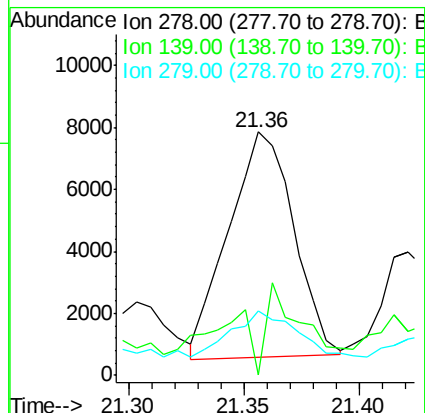
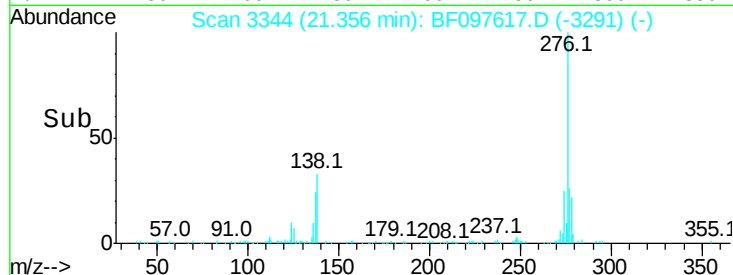
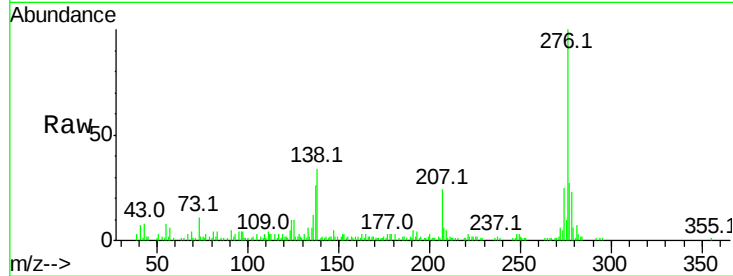
#90
Dibenzo(a,h)anthracene
Concen: 2.159 ng
RT: 21.36 min Scan# 3344
Delta R.T. 0.01 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Instrument :
BNA_F
ClientSampleId :
OK-02-081017

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	26.5	19.3	28.9

Manual Integrations
APPROVED

sohil
8/14/2017 6:54:50 PM



#91
Benzo(g,h,i)perylene
Concen: 7.127 ng
RT: 21.71 min Scan# 3404
Delta R.T. 0.02 min
Lab File: BF097617.D
Acq: 12 Aug 2017 3:20

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	18.6	28.0
138	36.0	25.4	38.0

