

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
 Data File : BF104217.D
 Acq On : 4 Apr 2018 9:46
 Operator : JU/SJ
 Sample : J2176-02DL 250X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB53 W 8DL

Manual Integrations
 APPROVED

Sohil
 4/4/2018 4:10:25 PM

Quant Time: Apr 04 11:07:28 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 03 15:22:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	90071	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	450275	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	208894	20.00	ng	-0.01
63) Phenanthrene-d10	11.49	188	357747	20.00	ng	0.00
75) Chrysene-d12	14.14	240	214436	20.00	ng	-0.01
86) Perylene-d12	15.69	264	212954	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.79	99	132	0.02	ng	0.19
23) Nitrobenzene-d5	7.60	82	115	0.02	ng	0.07
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.31	172	4103	0.31	ng	0.00
78) Terphenyl-d14	13.07	244	4313	0.46	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.26	128	1544297	70.203	ng	99
37) 2-Methylnaphthalene	8.95	142	173561	11.978	ng	99
45) 1,1'-Biphenyl	9.42	154	43902	2.449	ng	97
48) Acenaphthylene	9.86	152	242765	11.331	ng	99
54) Dibenzofuran	10.20	168	168400	9.304	ng	97
57) Fluorene	10.55	166	207036	13.867	ng	99
70) Phenanthrene	11.52	178	707917	36.549	ng	99
71) Anthracene	11.57	178	358421	17.716	ng	99
72) Carbazole	11.74	167	106529	5.517	ng	99
74) Fluoranthene	12.71	202	448757	21.797	ng	98
77) Pyrene	12.94	202	312141	20.249	ng	99
80) Benzo(a)anthracene	14.13	228	128013	9.541	ng	97
82) Chrysene	14.17	228	104971	7.987	ng	97
85) Indeno(1,2,3-cd)pyrene	17.28	276	41061	3.015	ng	96
87) Benzo(b)fluoranthene	15.23	252	96084m	7.414	ng	
88) Benzo(k)fluoranthene	15.25	252	57276m	4.691	ng	
89) Benzo(a)pyrene	15.62	252	91540	7.622	ng	97
91) Benzo(g,h,i)perylene	17.76	276	32609	2.932	ng	91

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

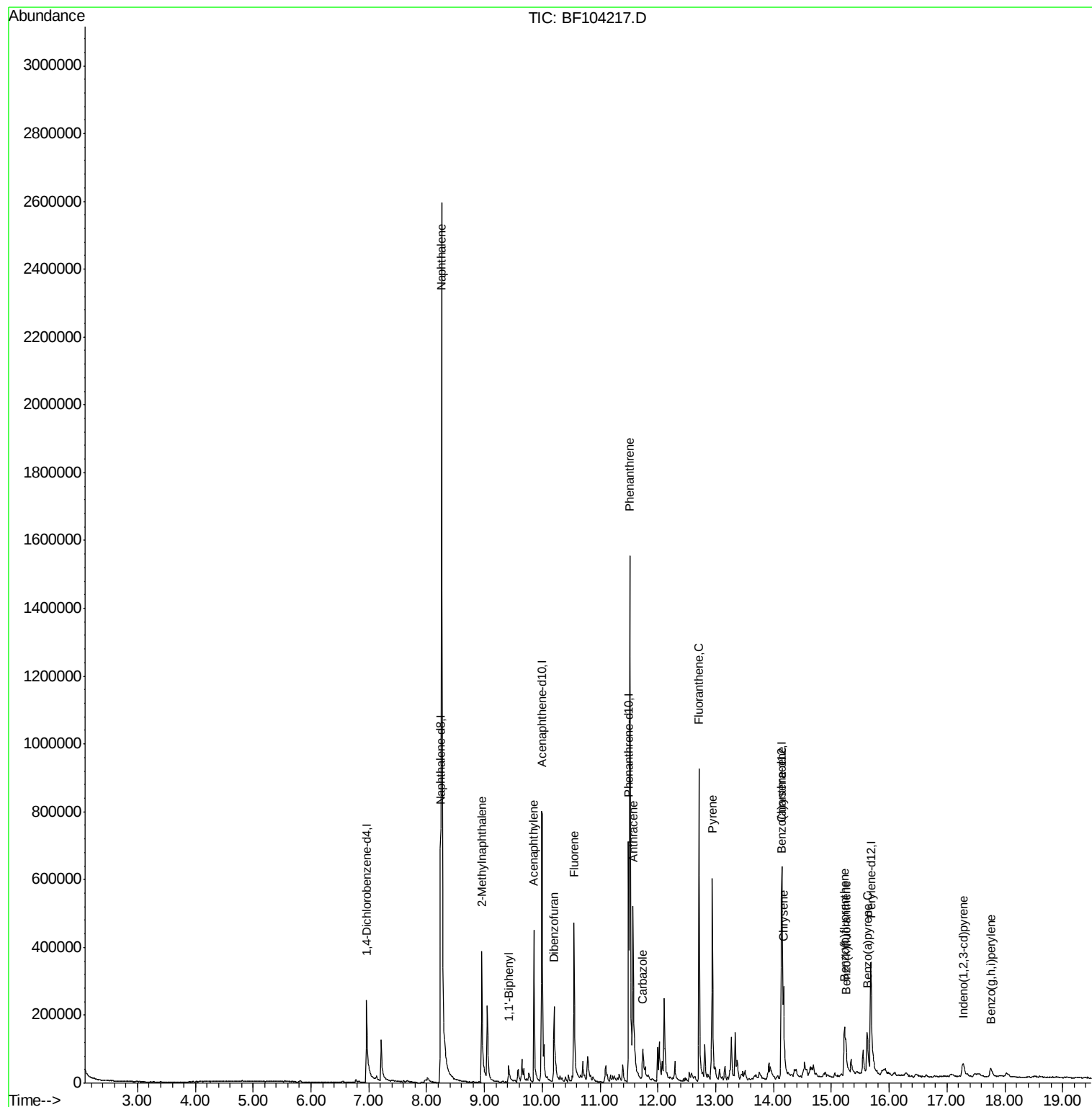
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
Data File : BF104217.D
Acq On : 4 Apr 2018 9:46
Operator : JU/SJ
Sample : J2176-02DL 250X
Misc :
ALS Vial : 32 Sample Multiplier: 1

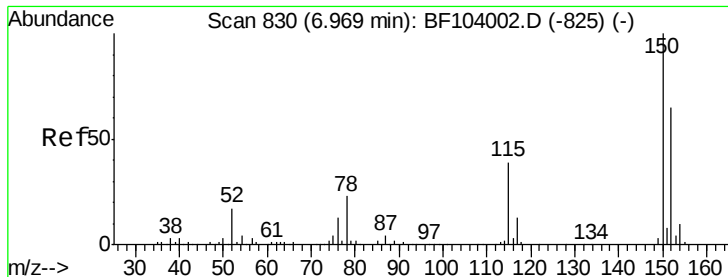
Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:25 PM

Quant Time: Apr 04 11:07:28 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 03 15:22:43 2018
Response via : Initial Calibration





#1

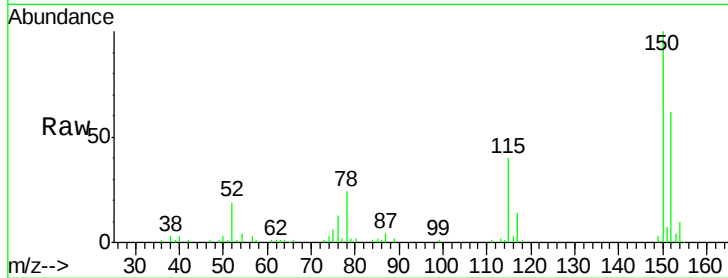
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.3	124.6	186.8
115	64.7	50.1	75.1

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:25 PM

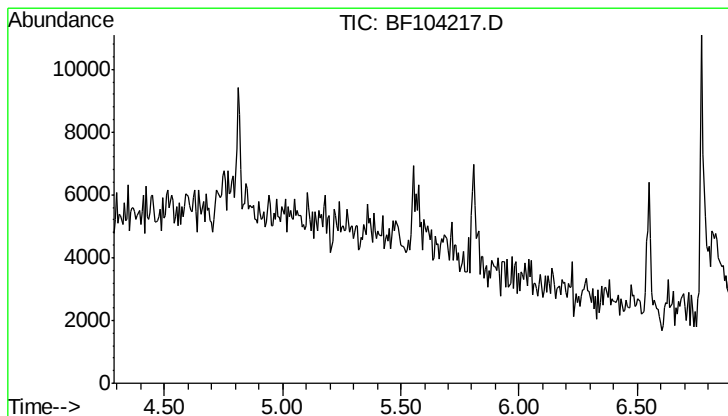
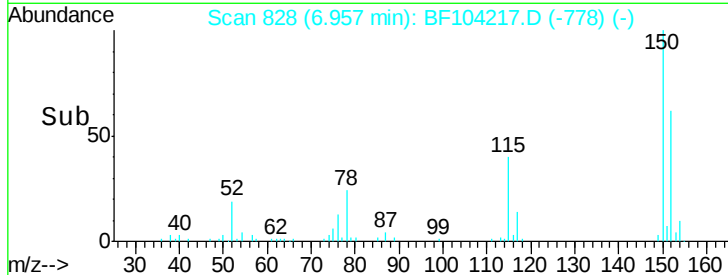
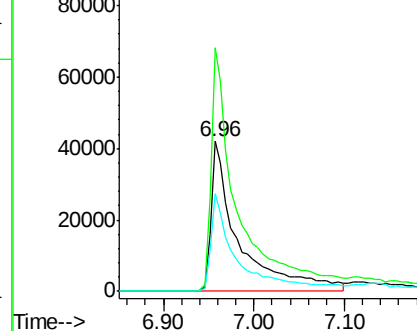


Abundance

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

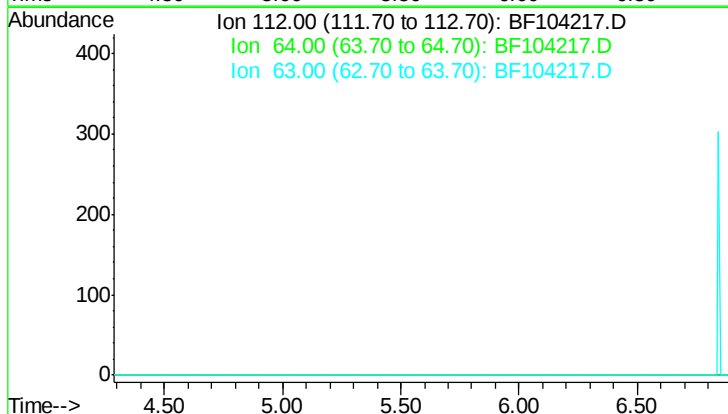


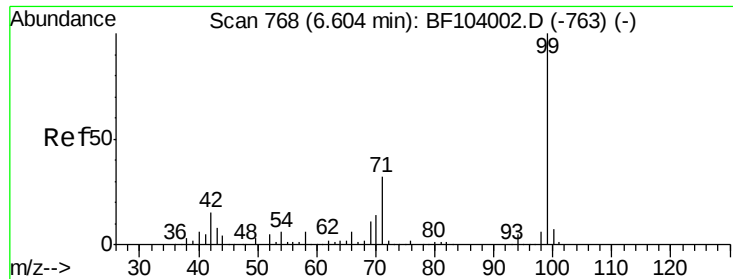
#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.59 min

Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Exp Ratio
112	100
64	59.9
63	29.6





#7

Phenol-d6

Concen: 0.019 ng

RT: 6.79 min Scan# 800

Delta R.T. 0.19 min

Lab File: BF104217.D

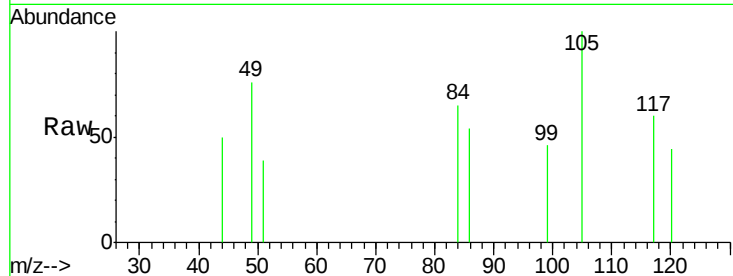
Acq: 4 Apr 2018 9:46

Instrument :

BNA_F

ClientSampleId :

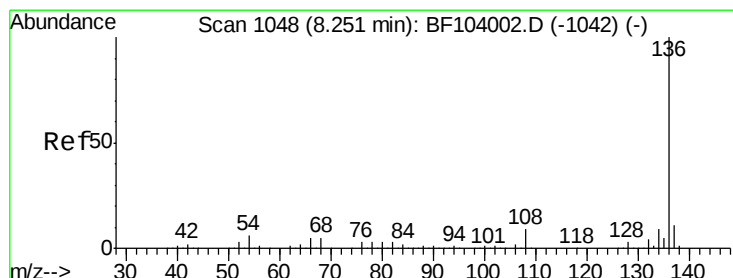
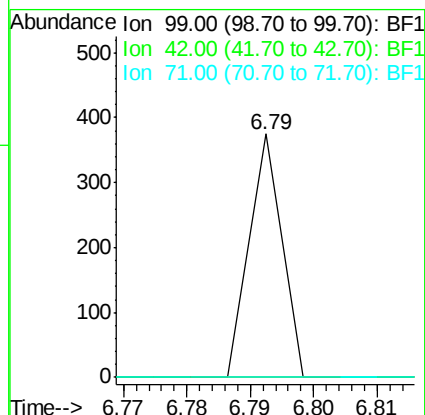
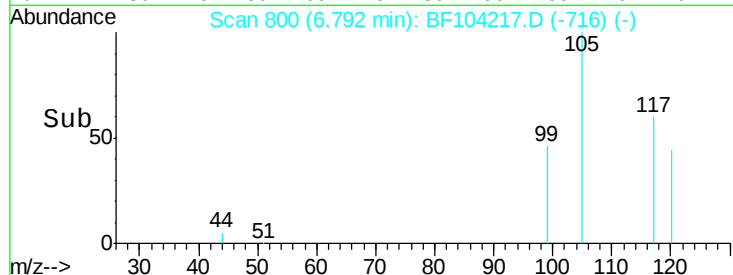
A2_SB53_W_8DL



Tot Ion	Ion	Ratio	Lower	Upper
132	99	100		
	42	0.0	14.5	21.7#
	71	0.0	25.4	38.0#

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:25 PM



#21

Naphthalene-d8

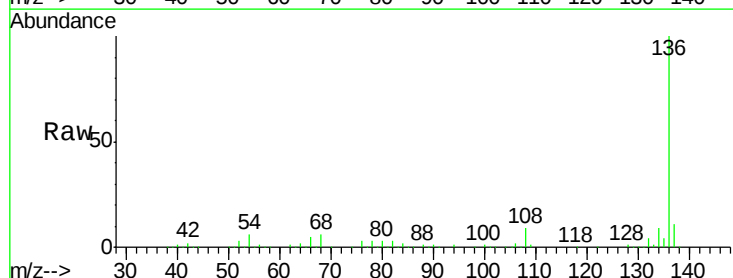
Concen: 20.000 ng

RT: 8.24 min Scan# 1046

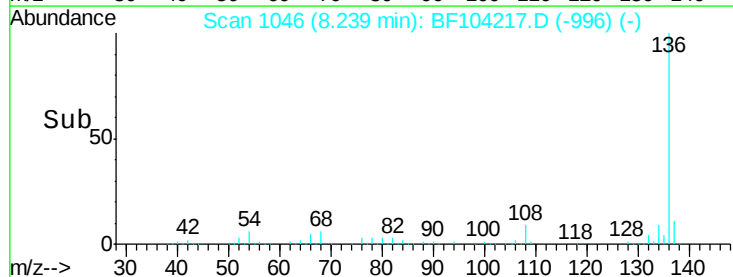
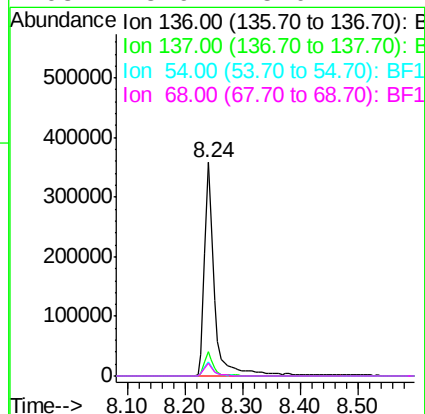
Delta R.T. -0.01 min

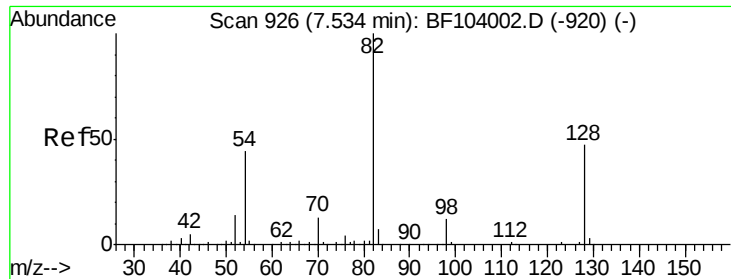
Lab File: BF104217.D

Acq: 4 Apr 2018 9:46



Tgt Ion	Ion	Ratio	Lower	Upper
450275	136	100		
	137	11.2	8.9	13.3
	54	6.4	6.6	9.8#
	68	5.9	5.0	7.4





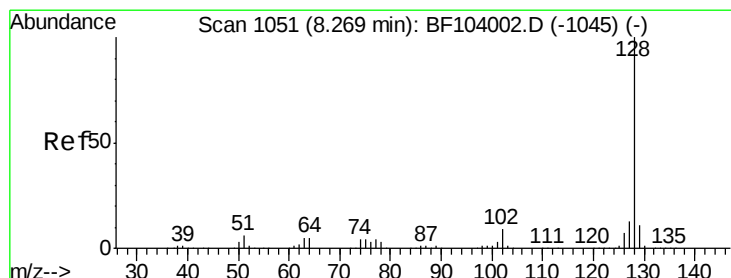
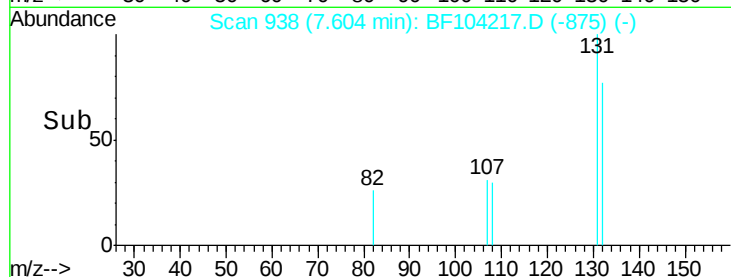
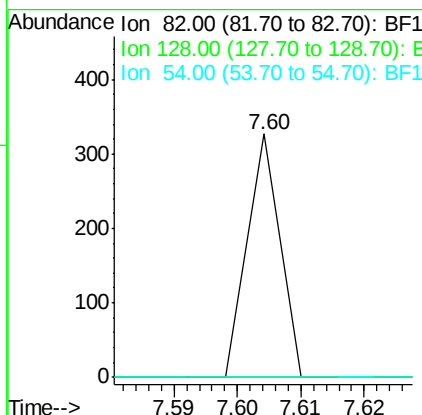
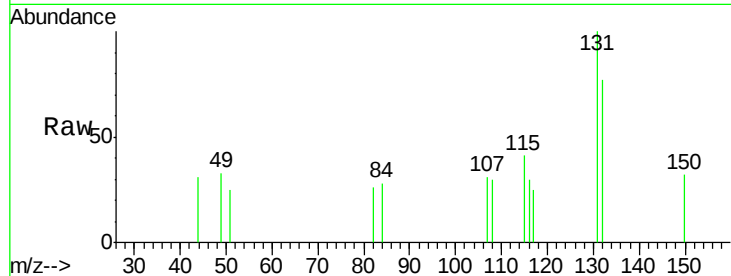
#23
Nitrobenzene-d5
Concen: 0.016 ng
RT: 7.60 min Scan# 938
Delta R.T. 0.07 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	0.0	36.1	54.1#
54	0.0	41.4	62.2#

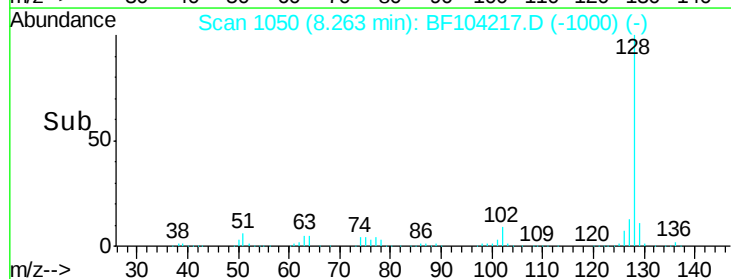
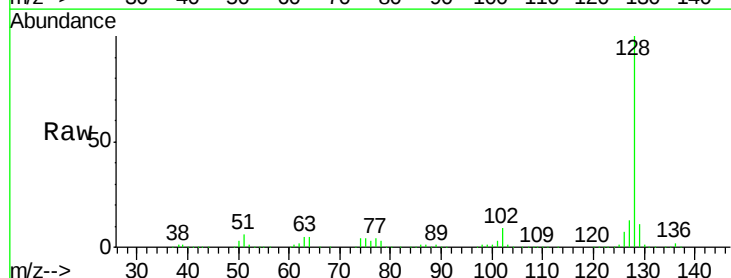
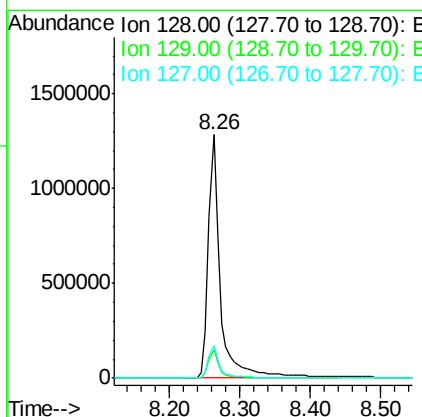
Manual Integrations
APPROVED

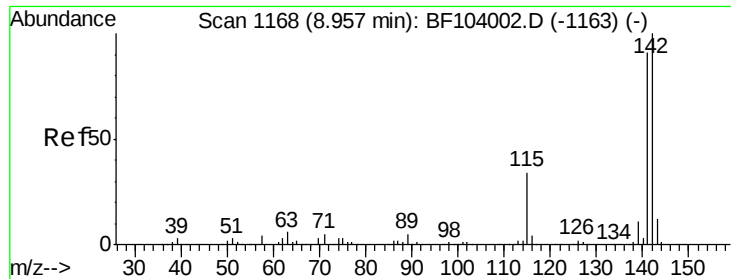
Sohil
4/4/2018 4:10:25 PM



#31
Naphthalene
Concen: 70.203 ng
RT: 8.26 min Scan# 1050
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	13.4	10.9	16.3





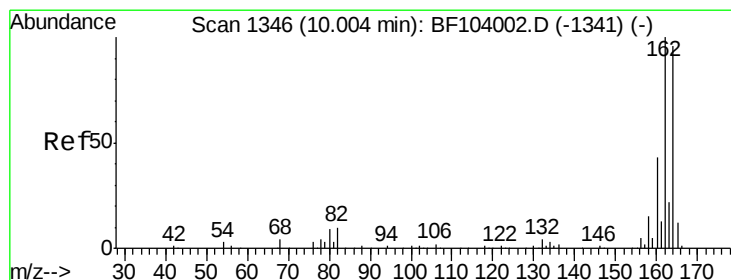
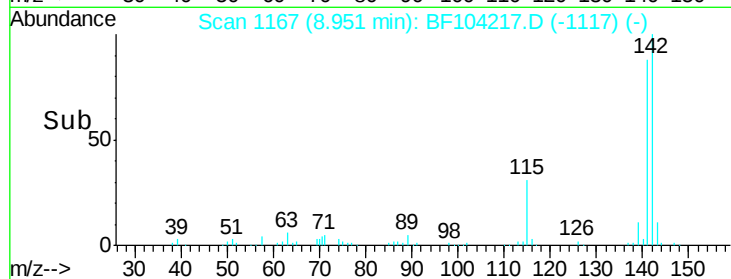
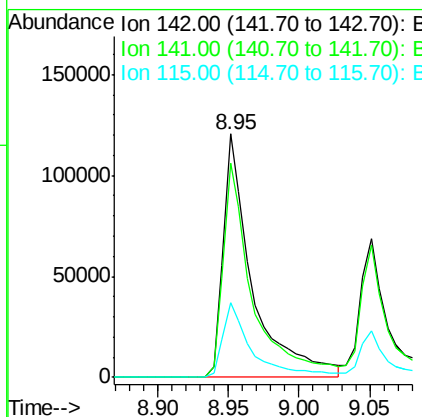
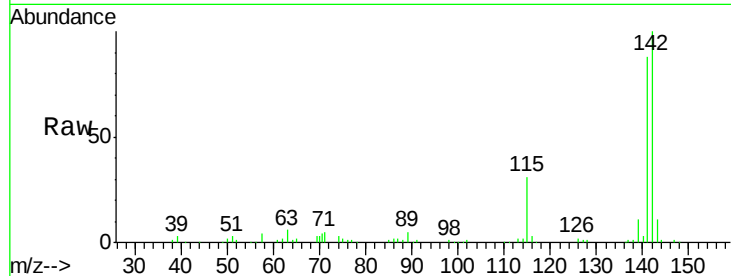
#37
2-Methylnaphthalene
Concen: 11.978 ng
RT: 8.95 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.8	106.2
115	30.7	26.1	39.1

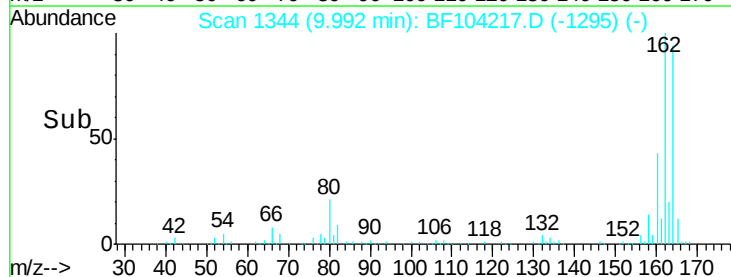
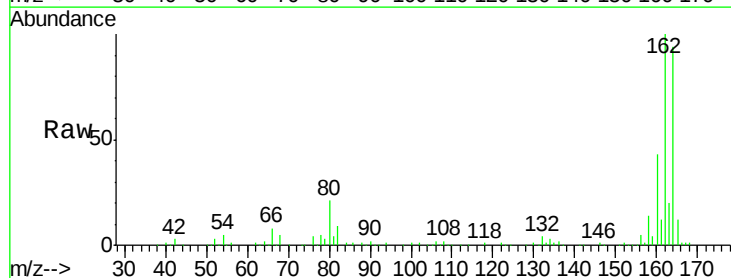
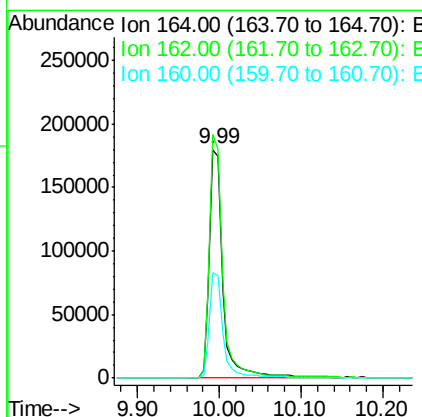
Manual Integrations
APPROVED

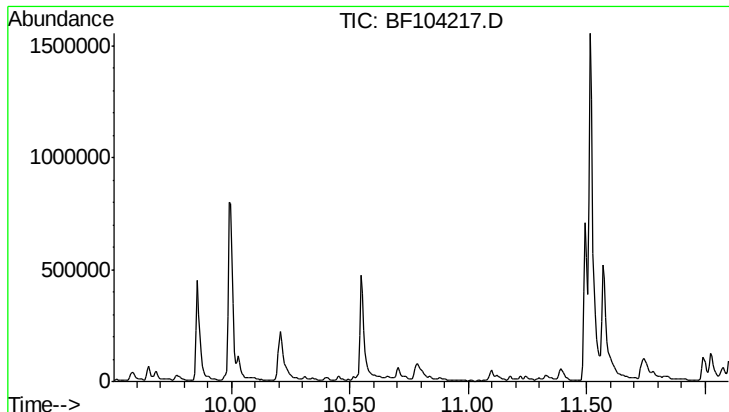
Sohil
4/4/2018 4:10:25 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.99 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	86.1	129.1
160	45.9	38.3	57.5





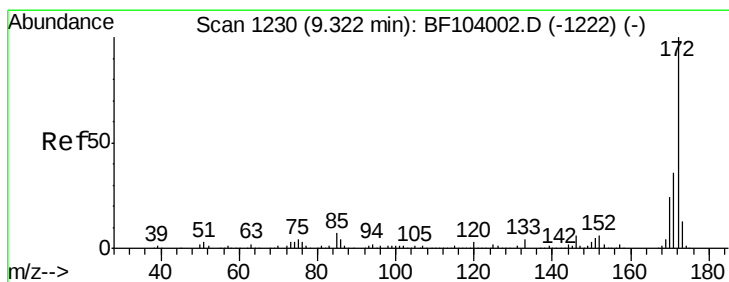
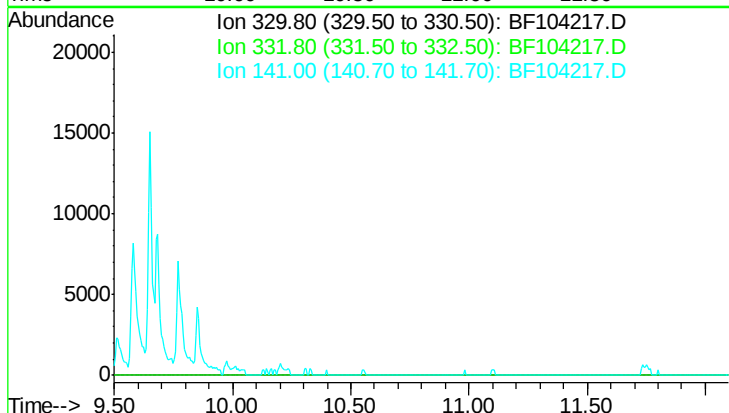
#41
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 10.80 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB53_W_8DL

Tot Ion	330	332	141
Exp Ratio	100	96.3	37.4

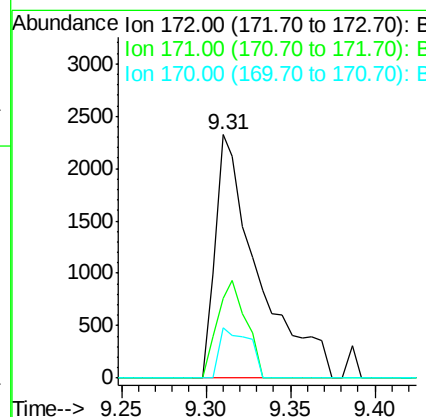
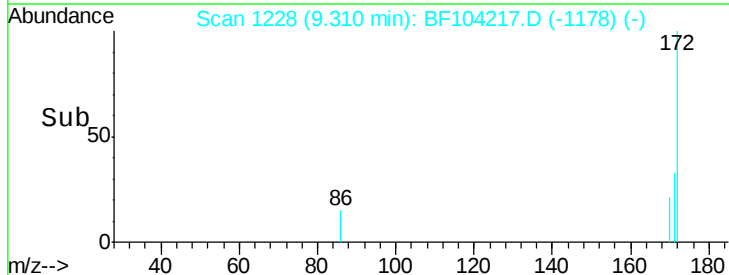
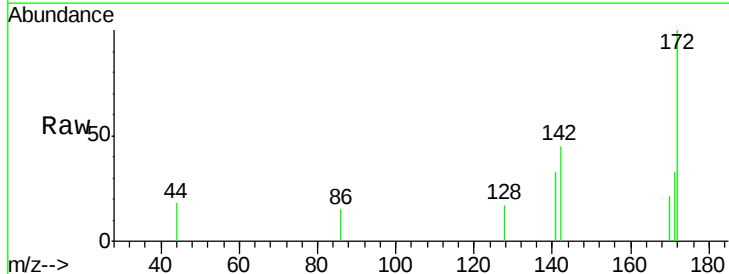
Manual Integrations
 APPROVED

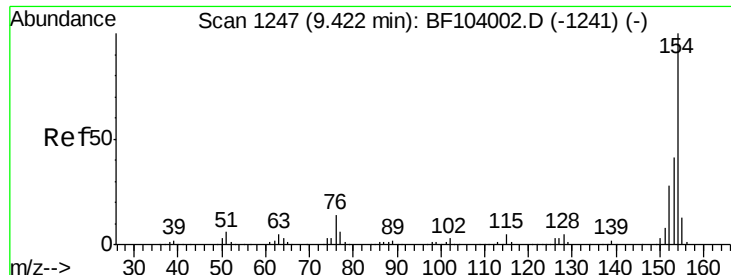
Sohil
 4/4/2018 4:10:25 PM



#44
 2-Fluorobiphenyl
 Concen: 0.310 ng
 RT: 9.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Tgt Ion	172	Resp	Lower	Upper
Ion Ratio	100			
171	33.0	29.7	44.5	
170	20.9	19.6	29.4	





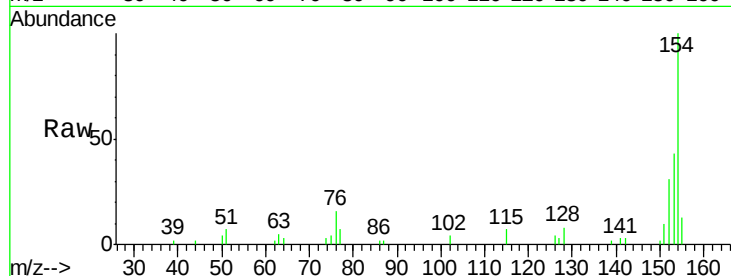
#45
 1,1'-Biphenyl
 Concen: 2.449 ng
 RT: 9.42 min Scan# 1246
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB53_W_8DL

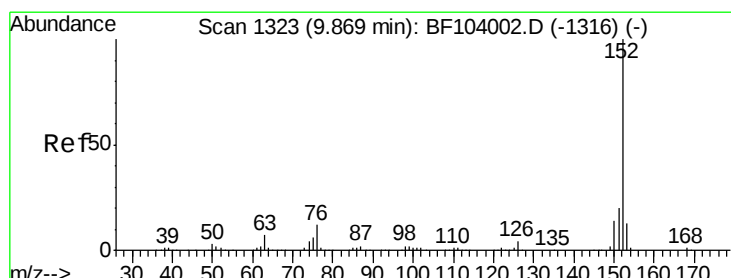
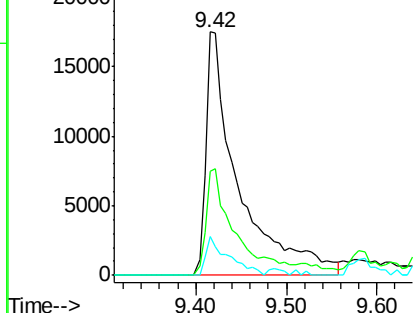
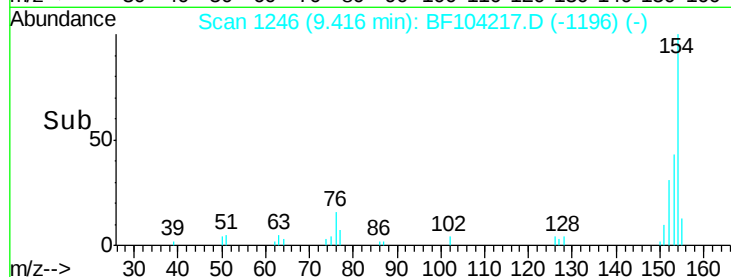
Tot Ion	Ratio	Lower	Upper
154	100		
153	42.8	21.3	61.3
76	15.9	0.0	34.0

Manual Integrations
 APPROVED

Sohil
 4/4/2018 4:10:25 PM

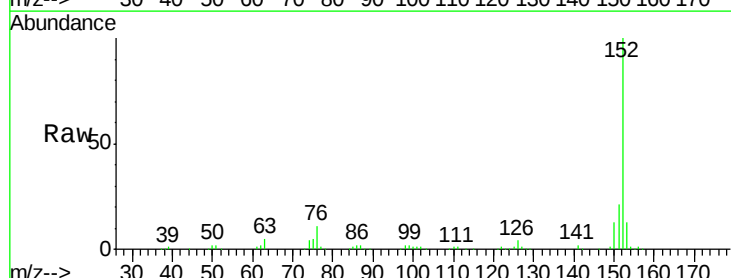


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

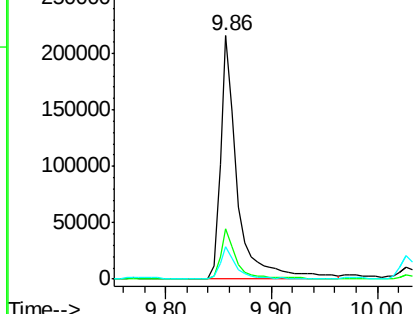
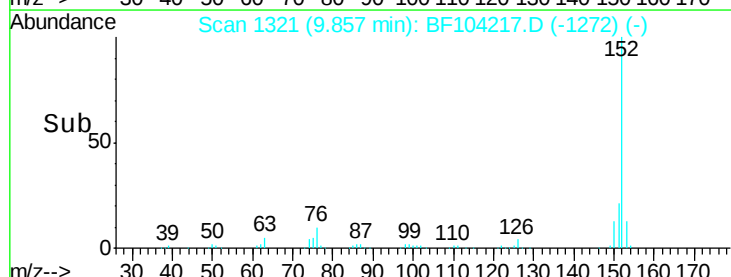


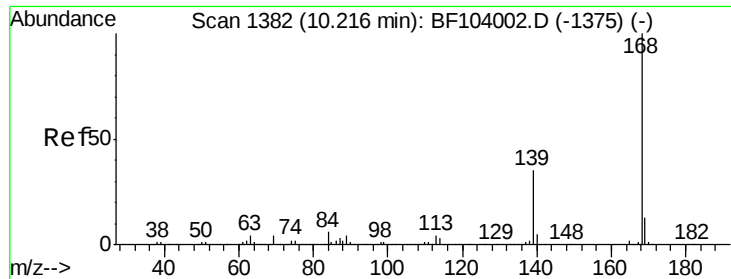
#48
 Acenaphthylene
 Concen: 11.331 ng
 RT: 9.86 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.3	24.5
153	13.1	10.7	16.1



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#54

Dibenzenofuran

Concen: 9.304 ng

RT: 10.20 min Scan# 1380

Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Instrument :

BNA_F

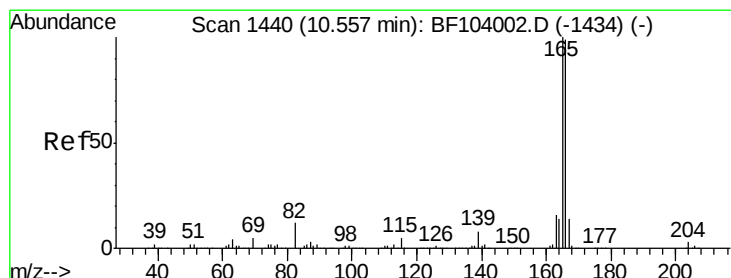
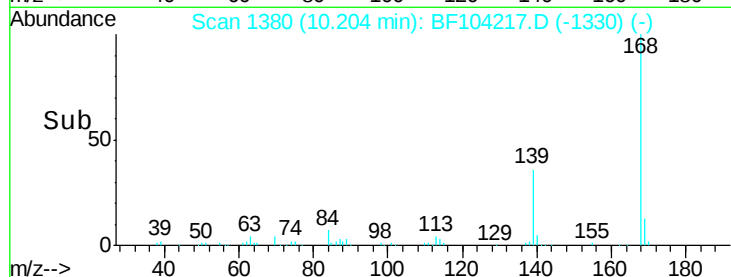
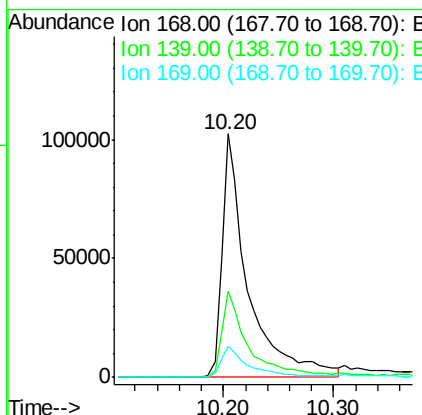
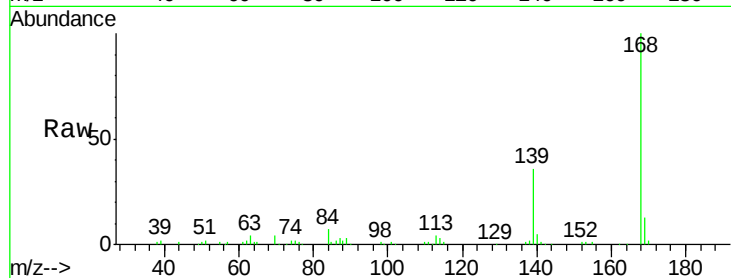
ClientSampleId :

A2_SB53_W_8DL

Tot Ion:	168	Resp:	168400
Ion Ratio	Lower	Upper	
168	100		
139	35.5	30.1	45.1
169	12.8	10.9	16.3

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:25 PM



#57

Fluorene

Concen: 13.867 ng

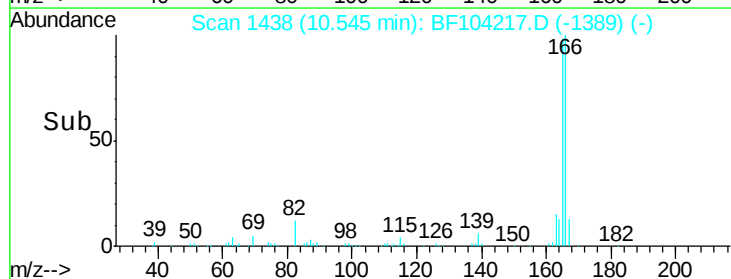
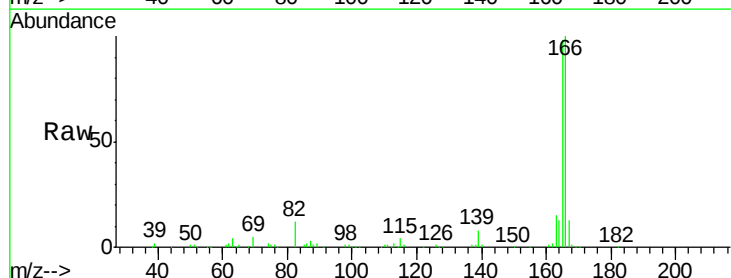
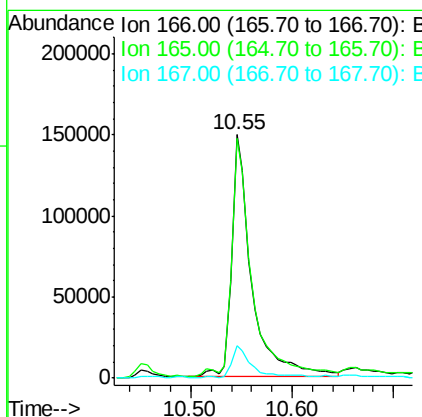
RT: 10.55 min Scan# 1438

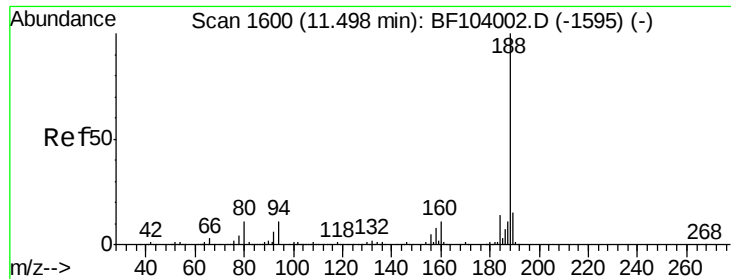
Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Tgt Ion:	166	Resp:	207036
Ion Ratio	Lower	Upper	
166	100		
165	98.3	79.8	119.8
167	13.5	10.6	16.0





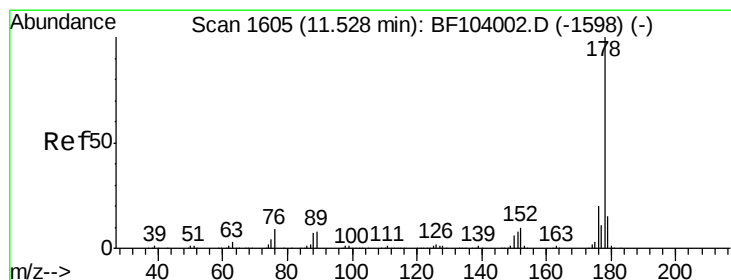
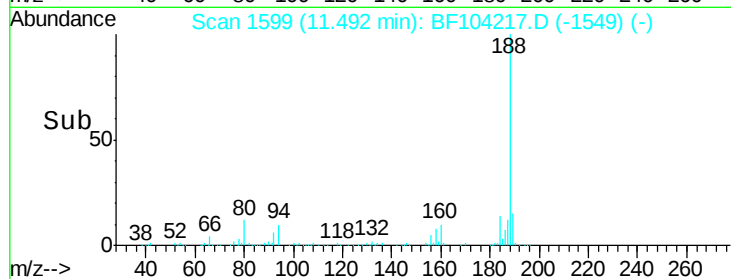
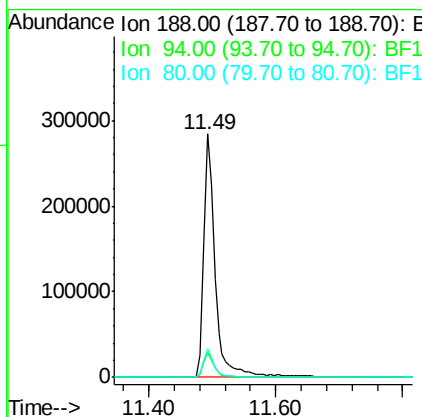
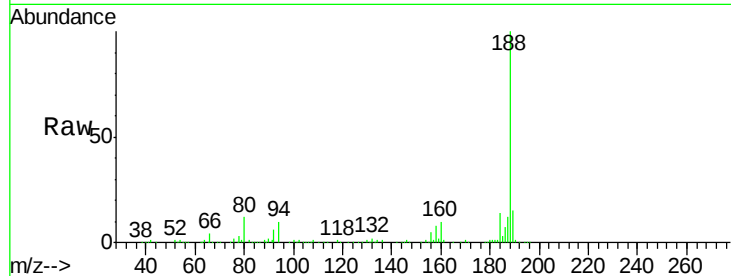
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	357747		
94	10.4		8.5	12.7
80	11.5		9.2	13.8

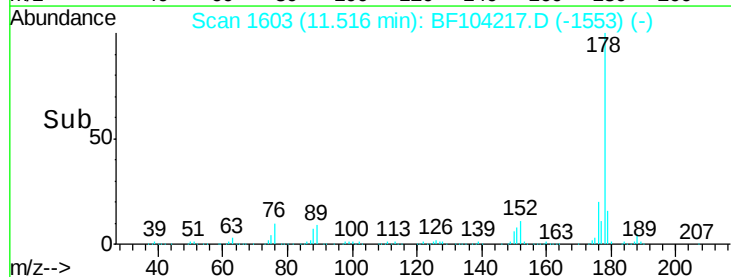
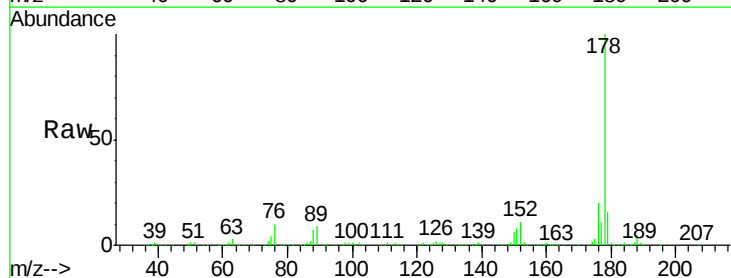
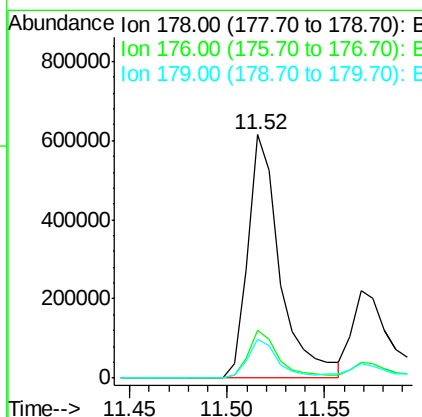
Manual Integrations
APPROVED

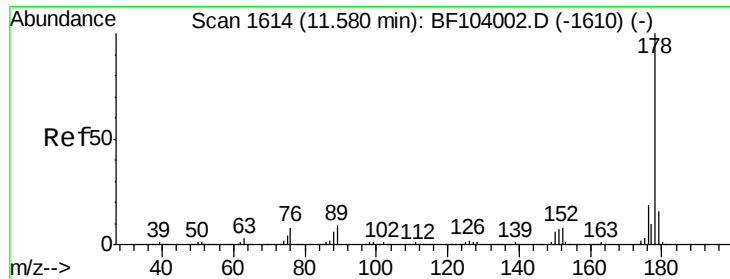
Sohil
4/4/2018 4:10:25 PM



#70
Phenanthrene
Concen: 36.549 ng
RT: 11.52 min Scan# 1603
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	707917		
176	19.6		15.8	23.8
179	15.8		13.0	19.6





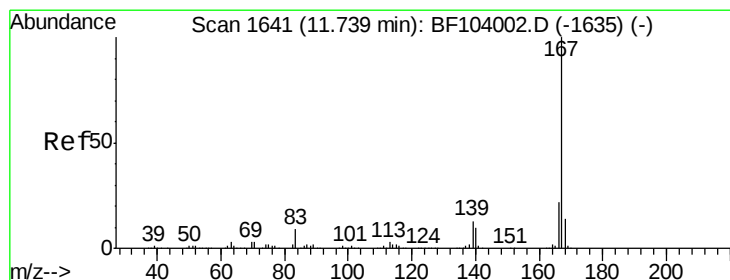
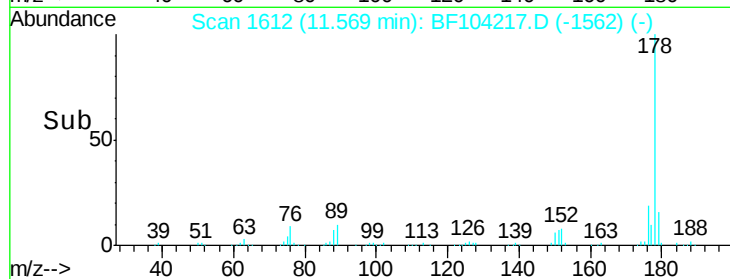
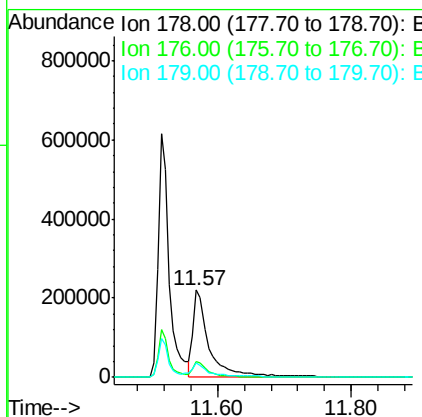
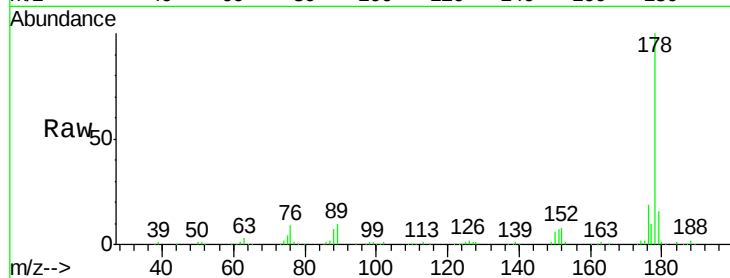
#71
 Anthracene
 Concen: 17.716 ng
 RT: 11.57 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	16.1	12.6	19.0

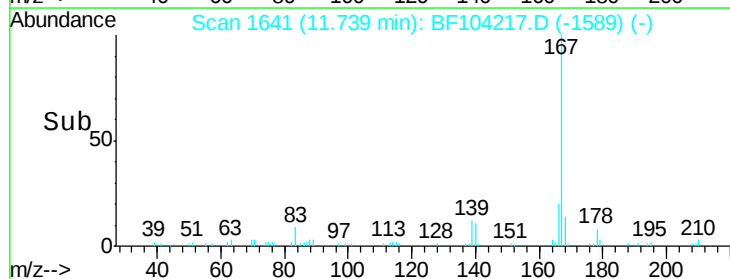
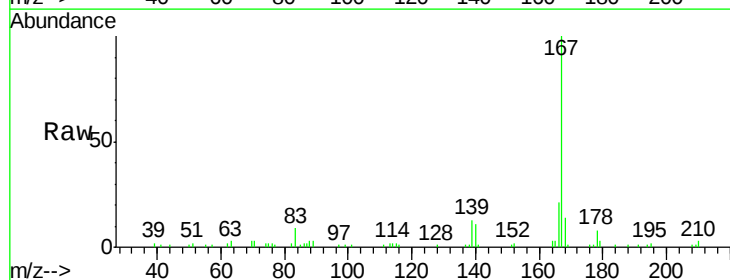
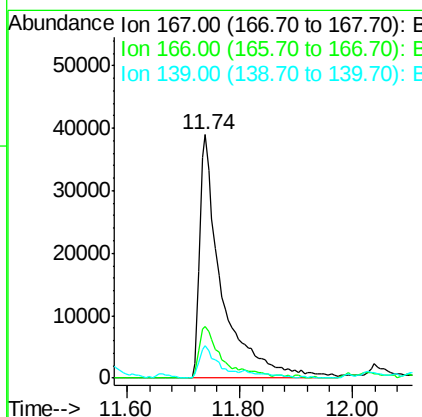
Manual Integrations
 APPROVED

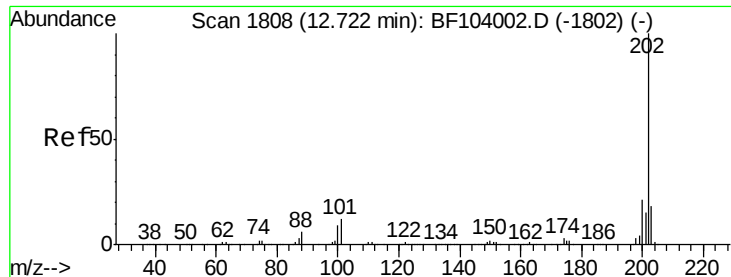
Sohil
 4/4/2018 4:10:25 PM



#72
 Carbazole
 Concen: 5.517 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. 0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.6	26.4
139	13.3	10.9	16.3





#74

Fluoranthene

Concen: 21.797 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Instrument :

BNA_F

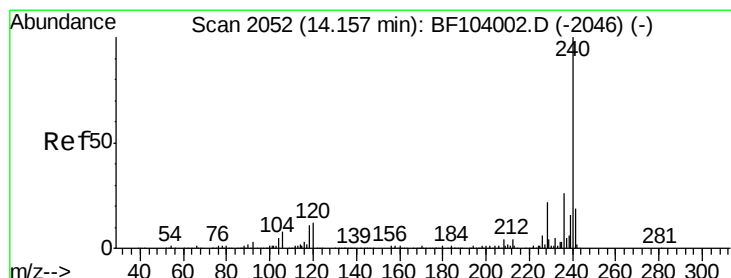
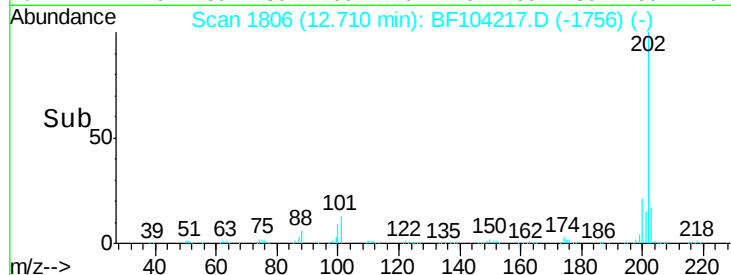
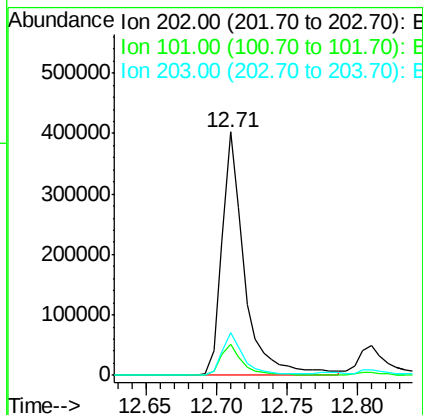
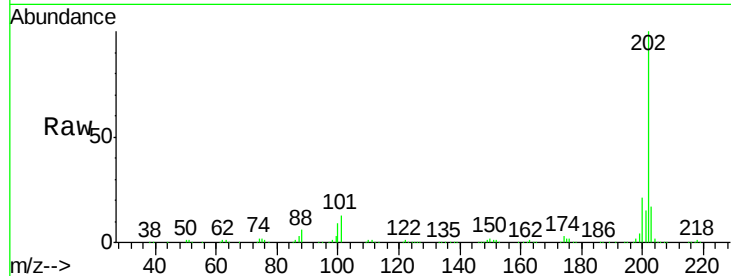
ClientSampleId :

A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	34.1
203	17.4	0.0	38.1

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:25 PM



#75

Chrysene-d12

Concen: 20.000 ng

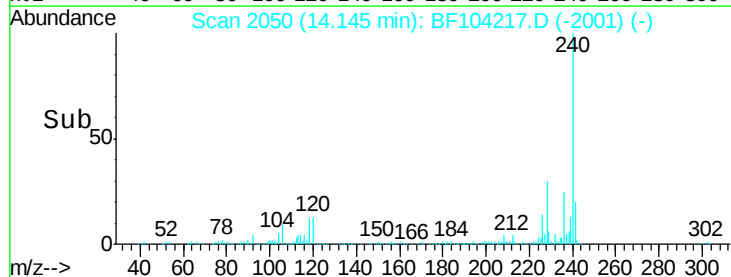
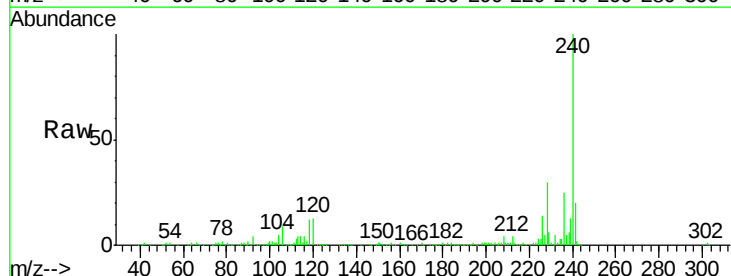
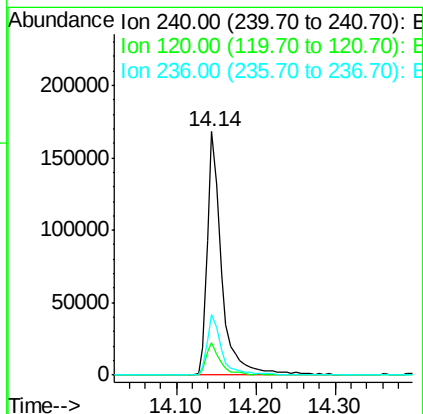
RT: 14.14 min Scan# 2050

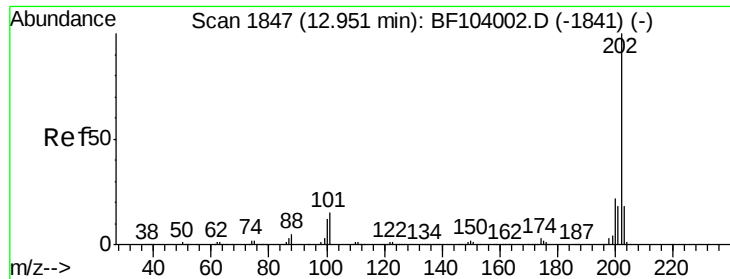
Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.4	9.5	14.3
236	25.0	20.7	31.1





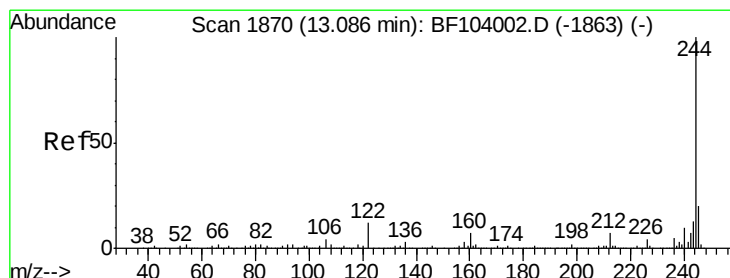
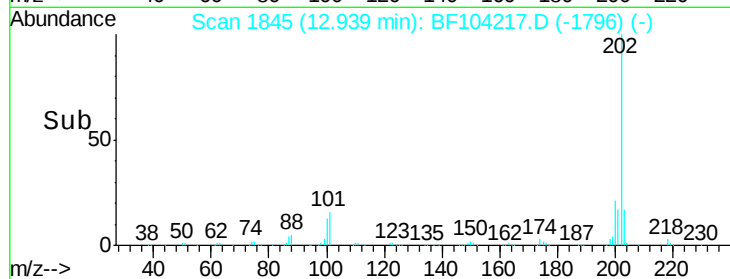
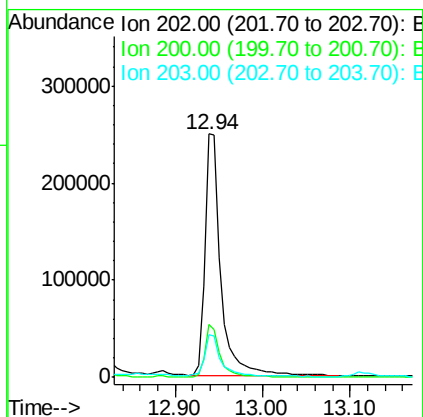
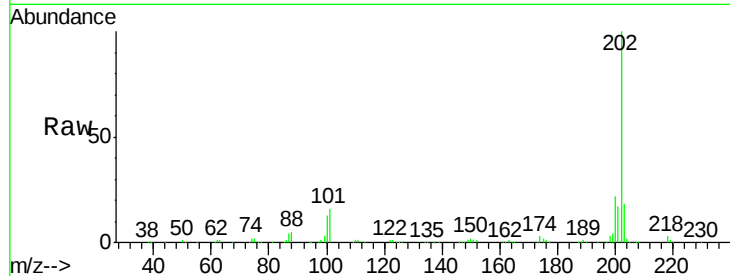
#77
Pvrene
Concen: 20.249 ng
RT: 12.94 min Scan# 1845
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.2
203	17.7	14.3	21.5

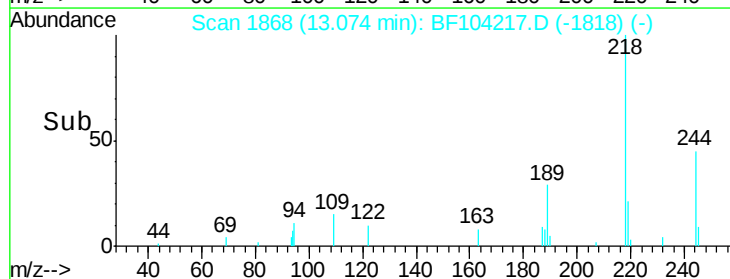
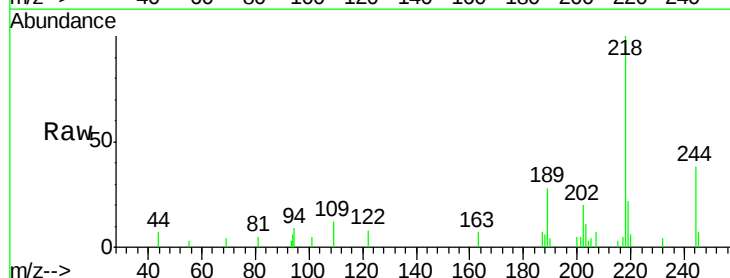
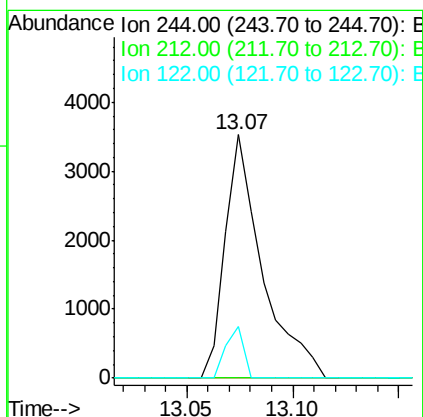
Manual Integrations
APPROVED

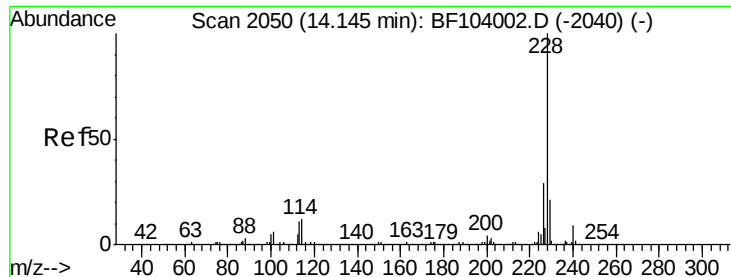
Sohil
4/4/2018 4:10:25 PM



#78
Terphenyl-d14
Concen: 0.464 ng
RT: 13.07 min Scan# 1868
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
244	100		
212	0.0	5.4	8.0#
122	21.3	11.0	16.4#





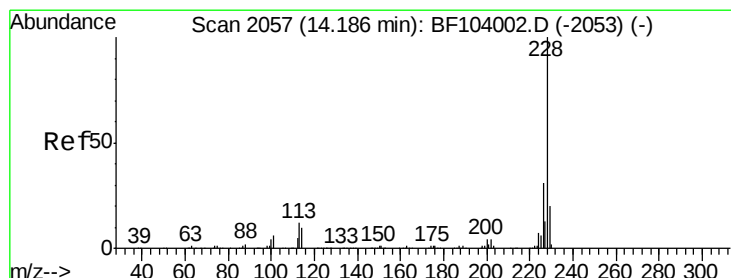
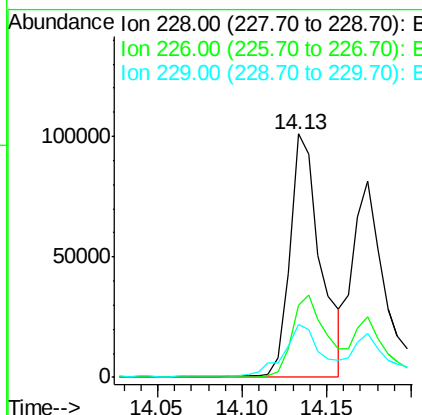
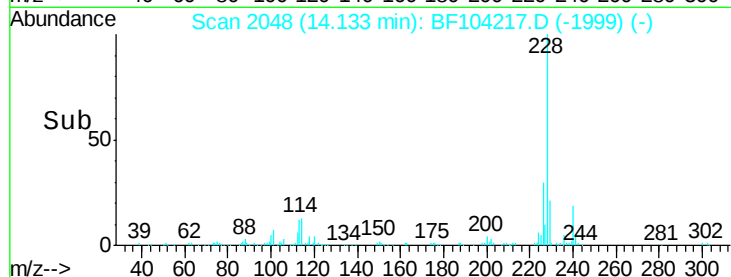
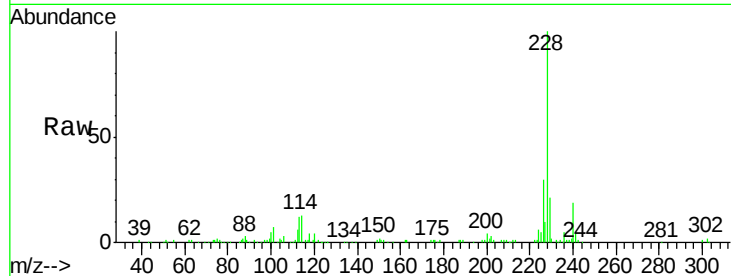
#80
Benzo(a)anthracene
Concen: 9.541 ng
RT: 14.13 min Scan# 2048
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.6	33.8
229	21.5	15.8	23.6

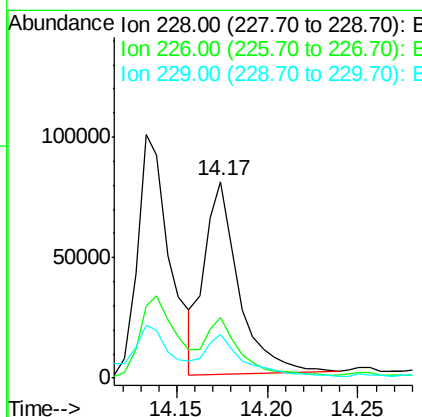
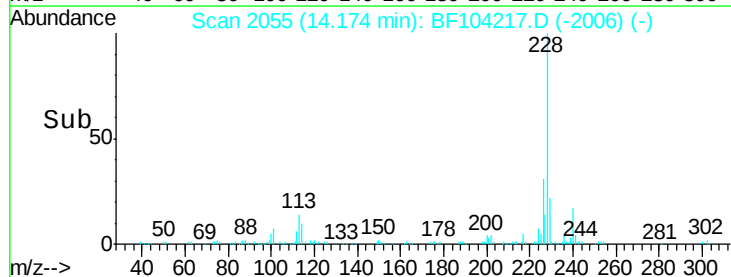
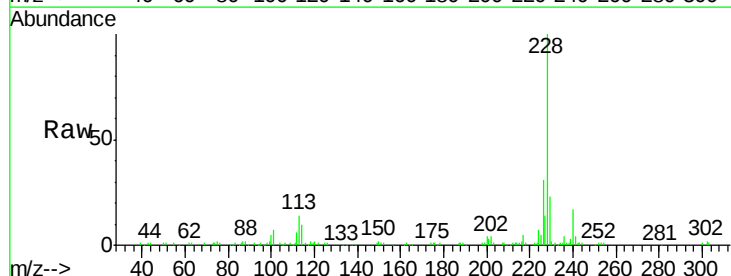
Manual Integrations
APPROVED

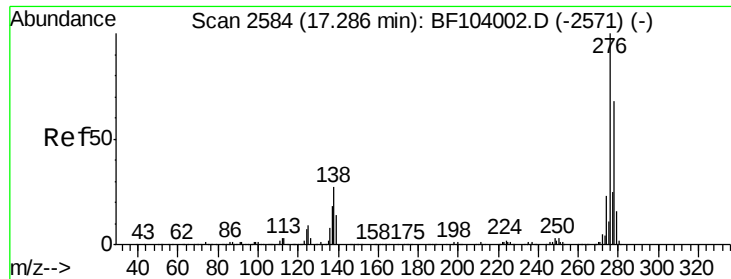
Sohil
4/4/2018 4:10:25 PM



#82
Chrysene
Concen: 7.987 ng
RT: 14.17 min Scan# 2055
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	22.6	16.2	24.4





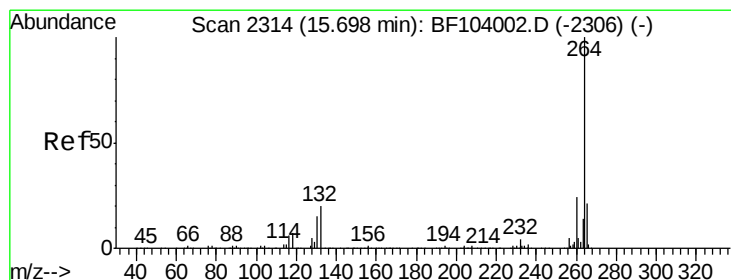
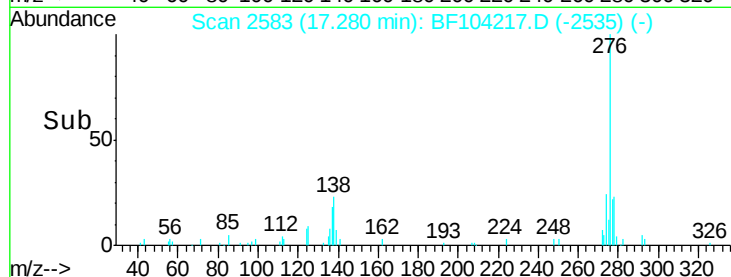
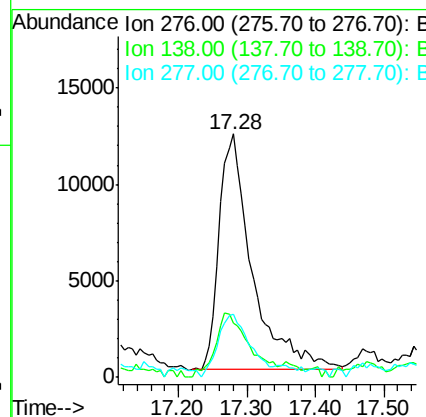
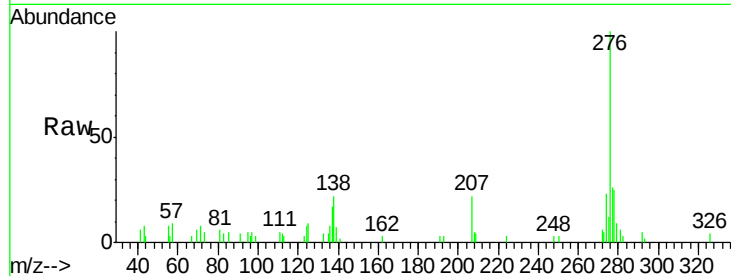
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.015 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.02 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.8	25.0	37.6
277	25.7	20.1	30.1

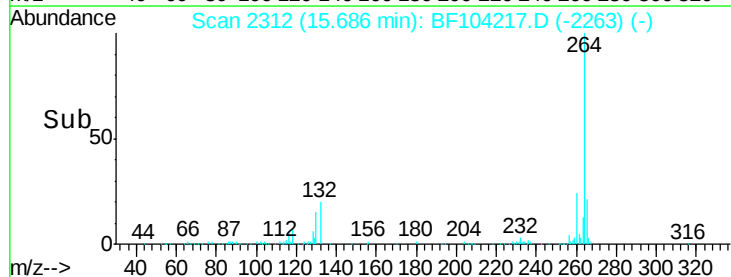
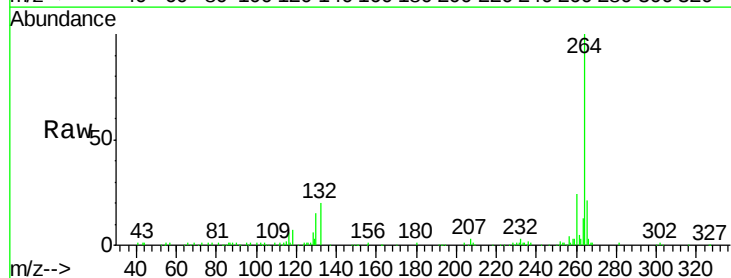
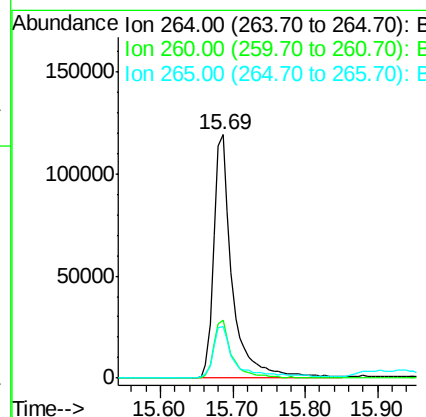
Manual Integrations
APPROVED

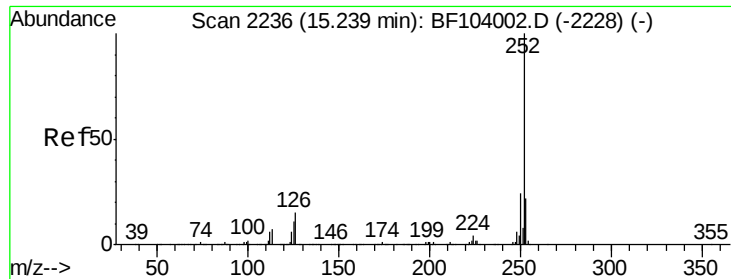
Sohil
4/4/2018 4:10:25 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2312
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	21.2	17.5	26.3





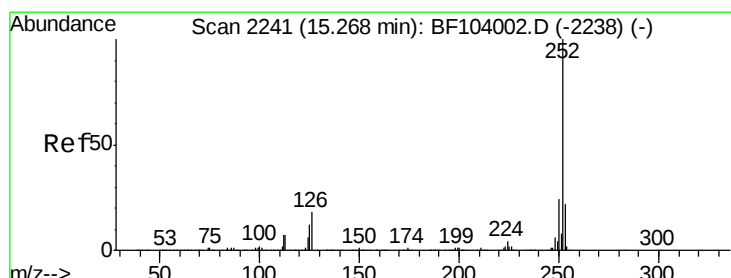
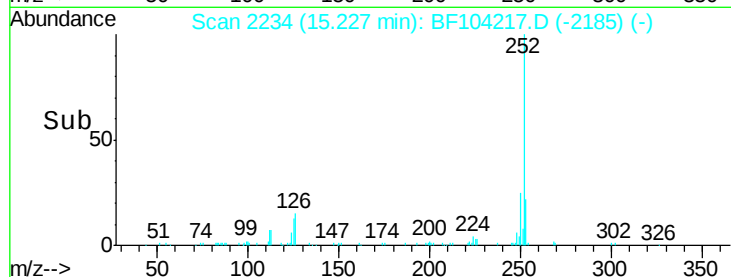
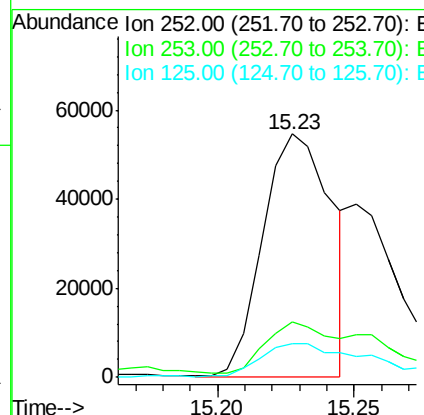
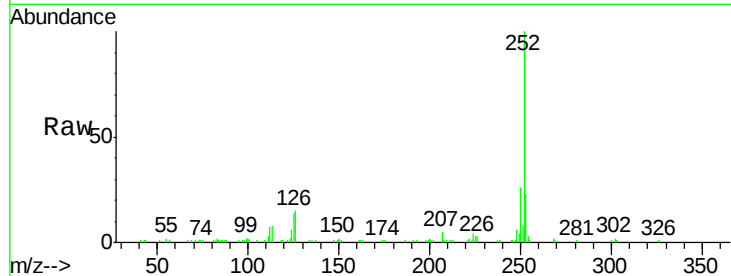
#87
Benzo(b)fluoranthene
Concen: 7.414 ng m
RT: 15.23 min Scan# 2234
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	13.7	9.0	13.6

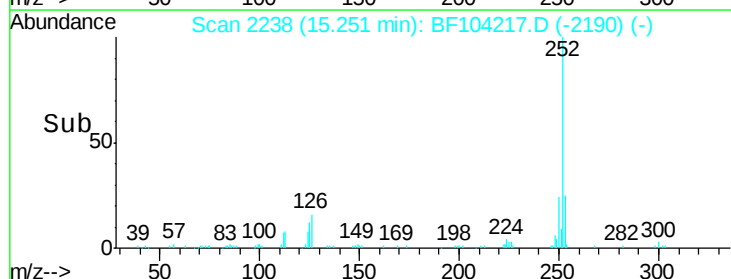
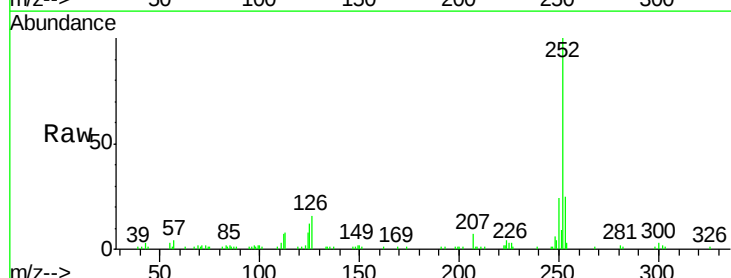
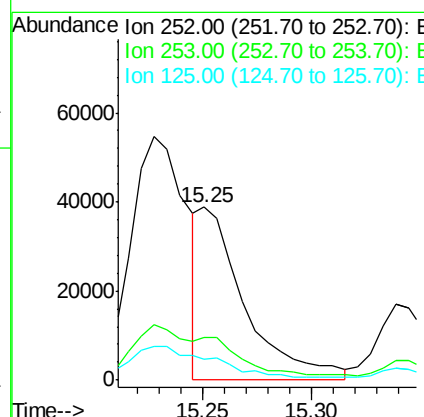
Manual Integrations
APPROVED

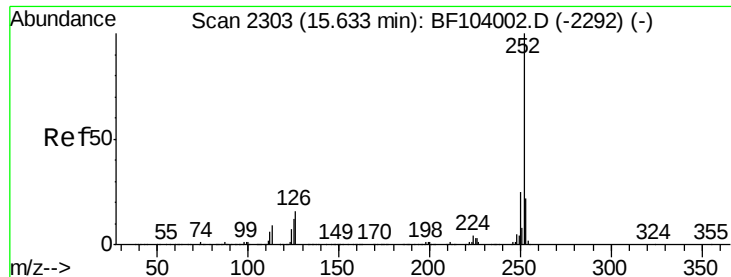
Sohil
4/4/2018 4:10:25 PM



#88
Benzo(k)fluoranthene
Concen: 4.691 ng m
RT: 15.25 min Scan# 2238
Delta R.T. -0.02 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	12.1	10.2	15.2





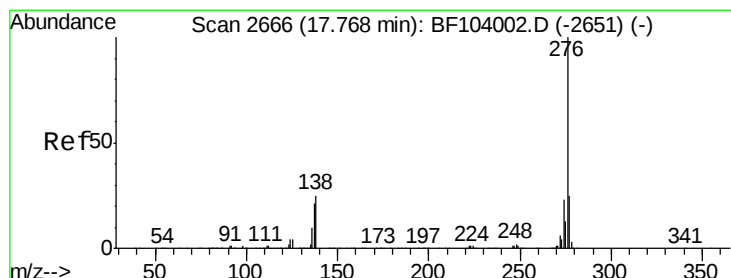
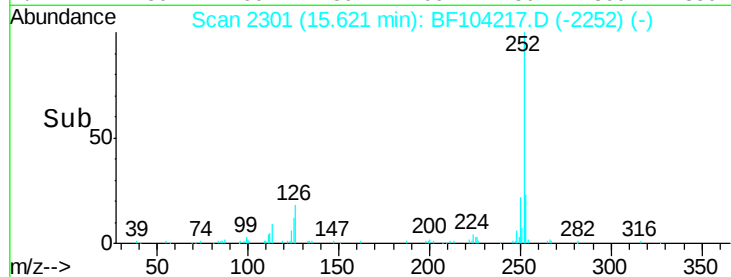
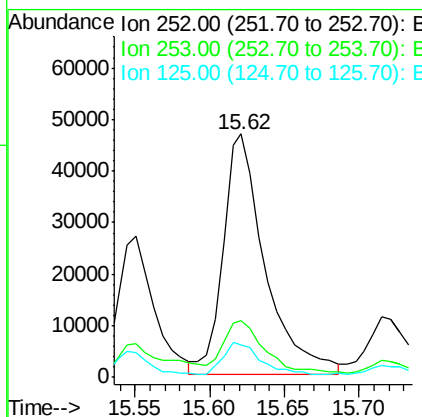
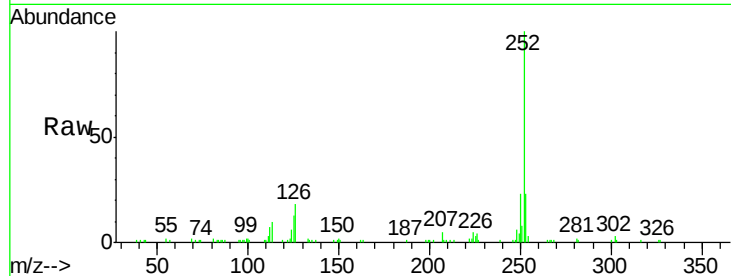
#89
Benzo(a)pyrene
Concen: 7.622 ng
RT: 15.62 min Scan# 2301
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :
A2_SB53_W_8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	13.4	9.8	14.6

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:25 PM



#91
Benzo(g,h,i)perylene
Concen: 2.932 ng
RT: 17.76 min Scan# 2665
Delta R.T. -0.02 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.7	17.9	26.9
138	22.8	21.8	32.8

