

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
 Data File : BF104215.D
 Acq On : 4 Apr 2018 8:53
 Operator : JU/SJ
 Sample : J2176-04DL 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB54 W_N 8DL

Manual Integrations
 APPROVED

Sohil
 4/4/2018 4:10:19 PM

Quant Time: Apr 04 10:58:11 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	108415	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	495161	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	231242	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	405717	20.00	ng	0.00
75) Chrysene-d12	14.15	240	249268	20.00	ng	0.00
86) Perylene-d12	15.69	264	237288	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	142217m	20.92	ng	0.00
7) Phenol-d6	6.59	99	209182m	25.01	ng	0.00
23) Nitrobenzene-d5	7.53	82	111773m	13.80	ng	0.00
41) 2,4,6-Tribromophenol	10.79	330	49474	19.21	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	203564	13.88	ng	0.00
78) Terphenyl-d14	13.07	244	160758	14.89	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.26	128	73204	3.026	ng	98
48) Acenaphthylene	9.86	152	76012	3.205	ng	98
51) Acenaphthene	10.03	154	52489	3.826	ng	97
54) Dibenzofuran	10.21	168	50292	2.510	ng	97
57) Fluorene	10.55	166	106111	6.420	ng	97
70) Phenanthrene	11.52	178	531238	24.185	ng	97
71) Anthracene	11.57	178	239400	10.434	ng	99
72) Carbazole	11.74	167	70655	3.226	ng	# 93
74) Fluoranthene	12.72	202	722575	30.947	ng	98
77) Pyrene	12.94	202	644046	35.942	ng	99
80) Benzo(a)anthracene	14.14	228	262887	16.855	ng	96
82) Chrysene	14.17	228	193129	12.642	ng	98
85) Indeno(1,2,3-cd)pyrene	17.28	276	111960m	7.072	ng	
87) Benzo(b)fluoranthene	15.23	252	218841m	15.154	ng	
88) Benzo(k)fluoranthene	15.26	252	124280m	9.136	ng	
89) Benzo(a)pyrene	15.63	252	215559	16.108	ng	95
90) Dibenzo(a,h)anthracene	17.28	278	27896	2.255	ng	# 73
91) Benzo(g,h,i)perylene	17.76	276	99588	8.036	ng	99

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

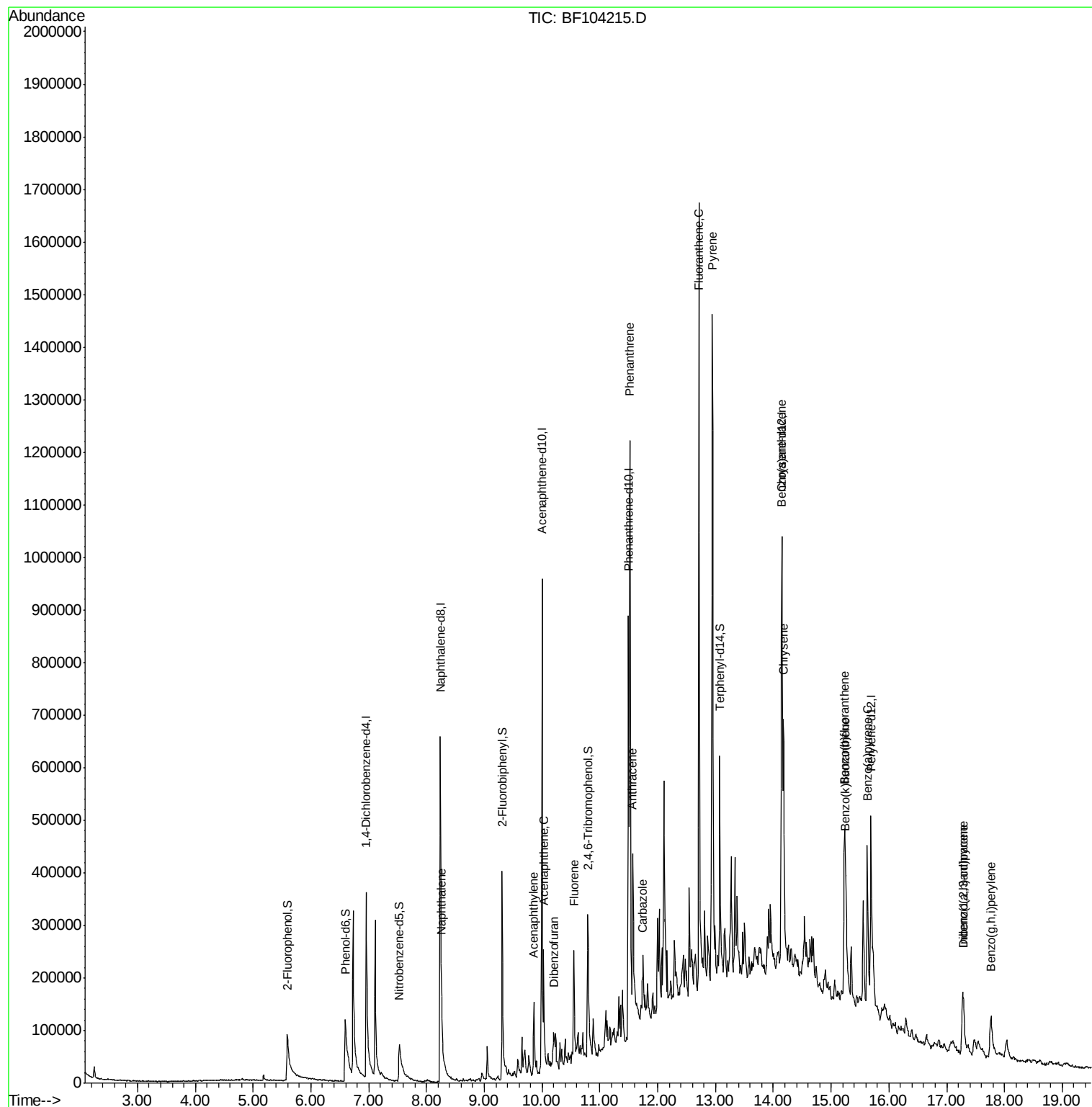
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
Data File : BF104215.D
Acq On : 4 Apr 2018 8:53
Operator : JU/SJ
Sample : J2176-04DL 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
A2 SB54 W_N 8DL

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:19 PM

Quant Time: Apr 04 10:58:11 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

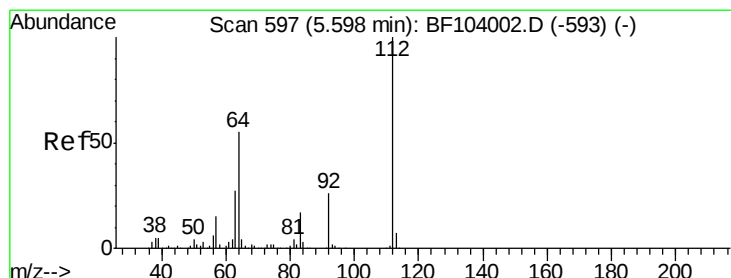
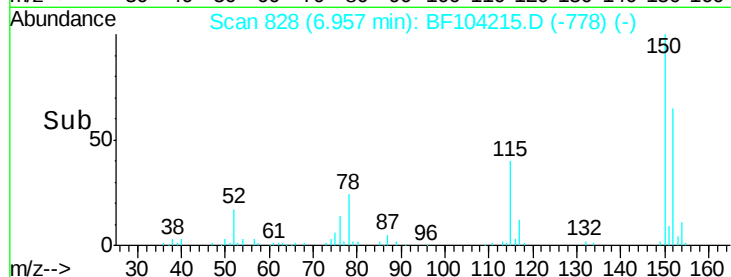
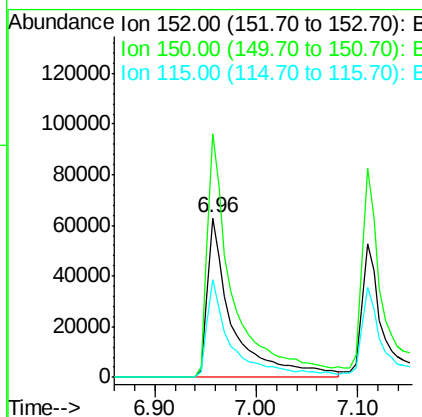
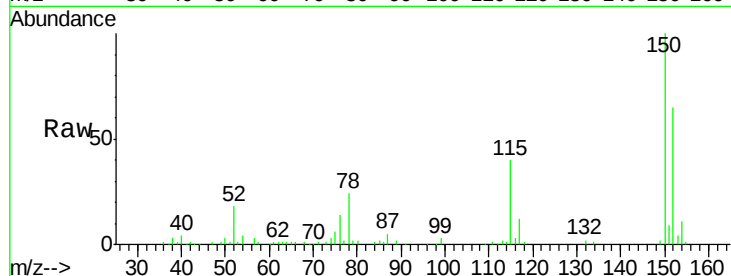
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.96 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF104215.D
 Acq: 4 Apr 2018 8:53

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB54_W_N_8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.0	124.6	186.8
115	61.2	50.1	75.1

Manual Integrations
 APPROVED

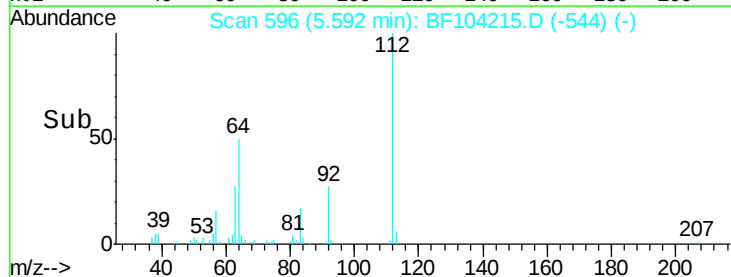
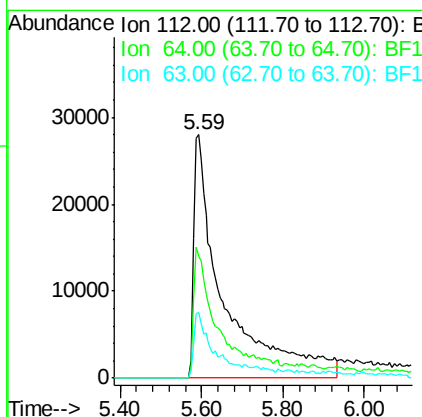
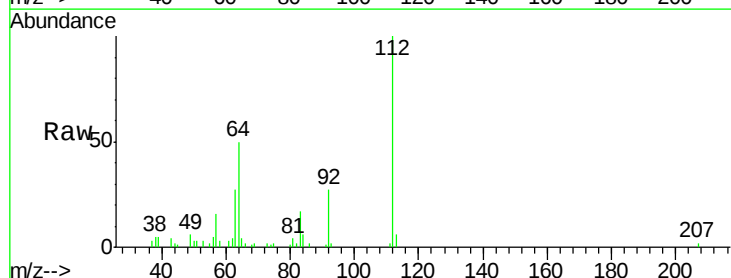
Sohil
 4/4/2018 4:10:19 PM

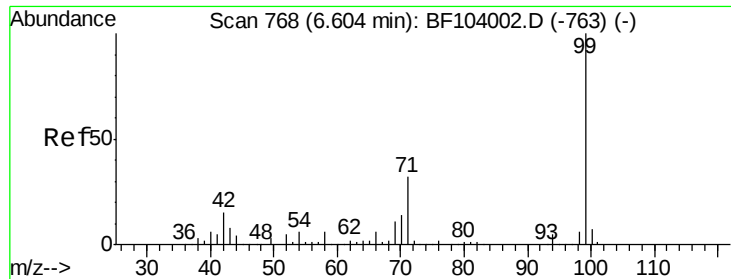


#5

2-Fluorophenol
 Concen: 20.920 ng m
 RT: 5.59 min Scan# 596
 Delta R.T. 0.01 min
 Lab File: BF104215.D
 Acq: 4 Apr 2018 8:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.1	47.9	71.9
63	27.1	23.7	35.5





#7

Phenol-d6

Concen: 25.010 ng/mL

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Instrument :

BNA_F

ClientSampleId :

A2_SB54_W_N_8DL

Tot Ion: 99 Resp: 209182

Ion Ratio Lower Upper

99 100

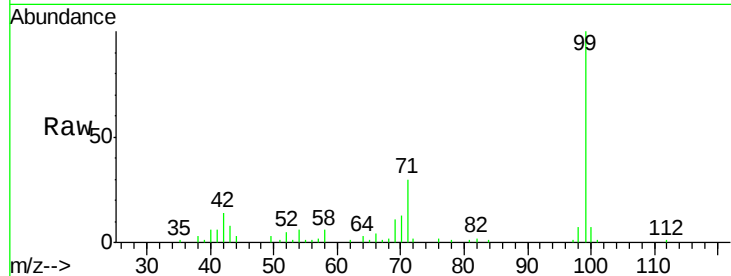
42 14.0 14.5 21.7#

71 29.5 25.4 38.0

Manual Integrations
APPROVED

Sohil

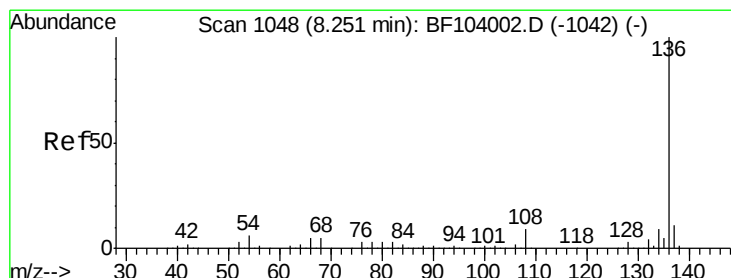
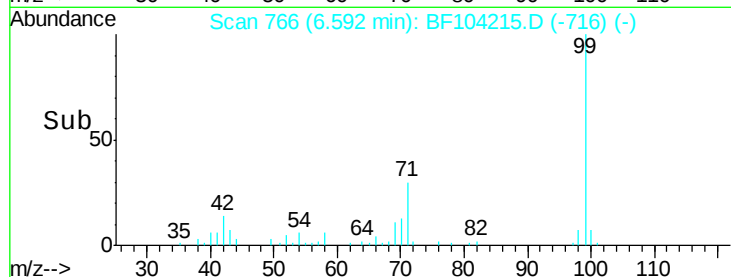
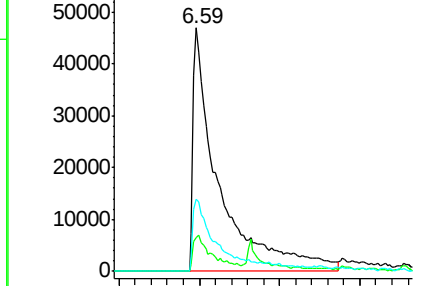
4/4/2018 4:10:19 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng/mL

RT: 8.24 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Tgt Ion: 136 Resp: 495161

Ion Ratio Lower Upper

136 100

137 10.5 8.9 13.3

54 6.6 6.6 9.8#

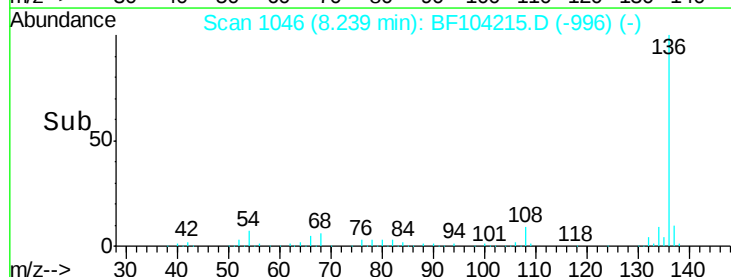
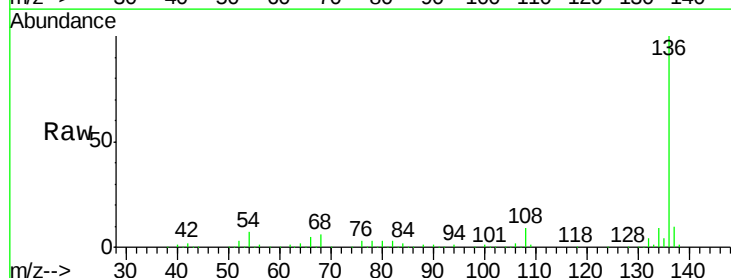
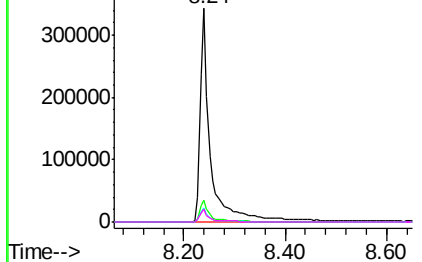
68 6.0 5.0 7.4

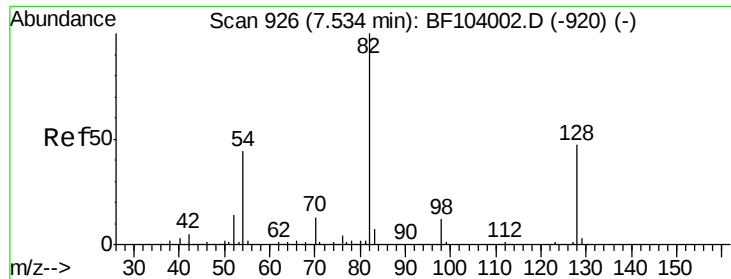
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





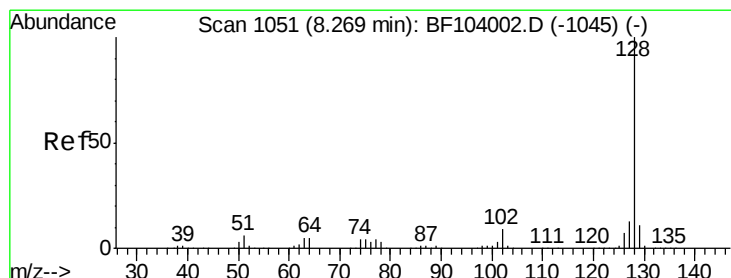
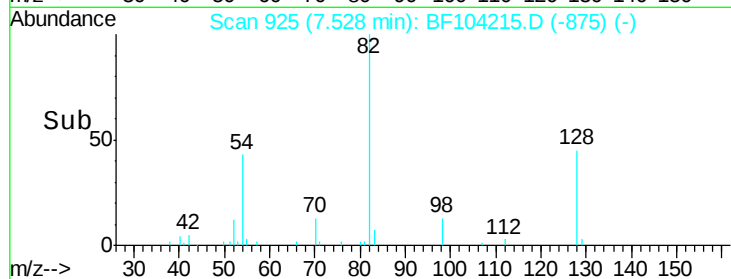
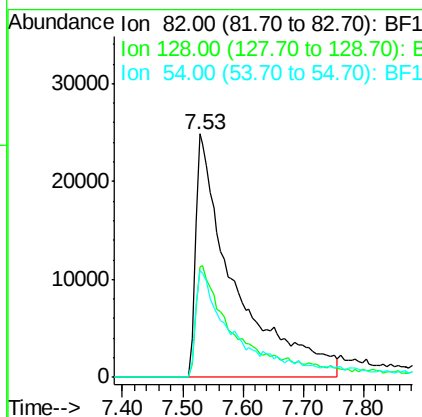
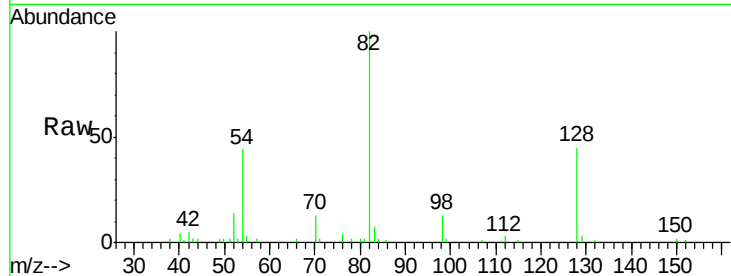
#23
 Nitrobenzene-d5
 Concen: 13.805 ng/ml
 RT: 7.53 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: BF104215.D
 Acq: 4 Apr 2018 8:53

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB54_W_N_8DL

Tot Ion	82	Resp	111773
Ion Ratio	Lower	Upper	
82	100		
128	45.2	36.1	54.1
54	43.8	41.4	62.2

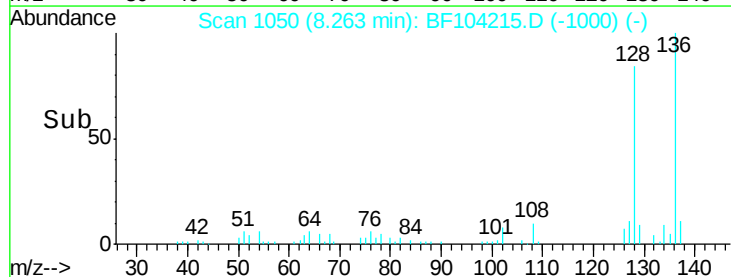
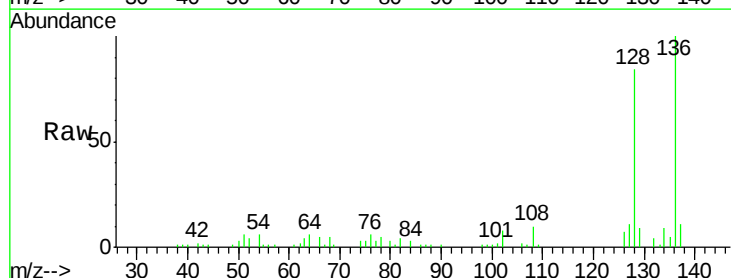
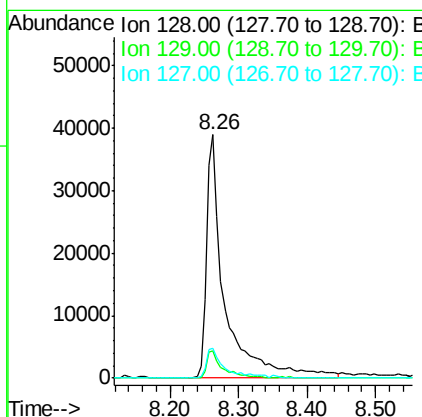
Manual Integrations
 APPROVED

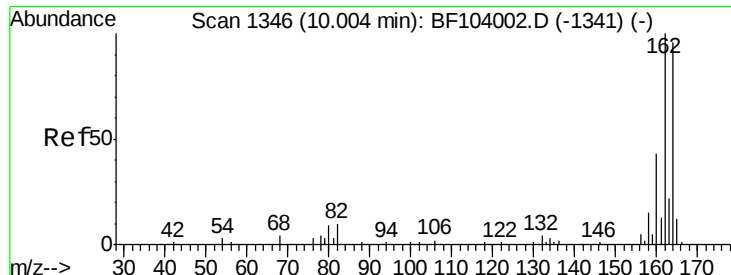
Sohil
 4/4/2018 4:10:19 PM



#31
 Naphthalene
 Concen: 3.026 ng
 RT: 8.26 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: BF104215.D
 Acq: 4 Apr 2018 8:53

Tgt Ion	128	Resp	73204
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.8	13.2
127	12.5	10.9	16.3





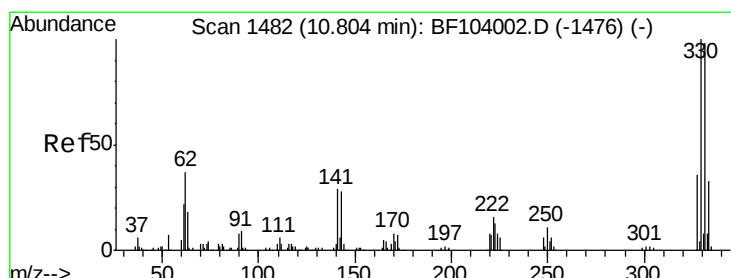
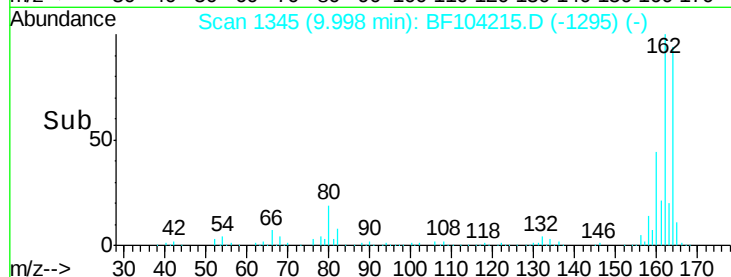
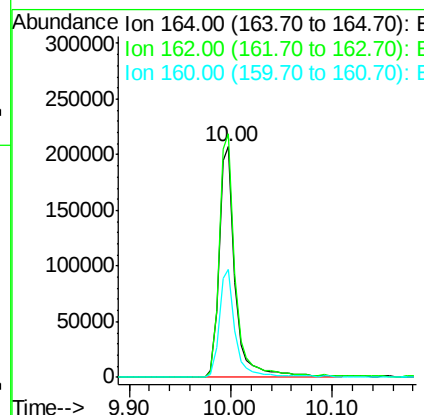
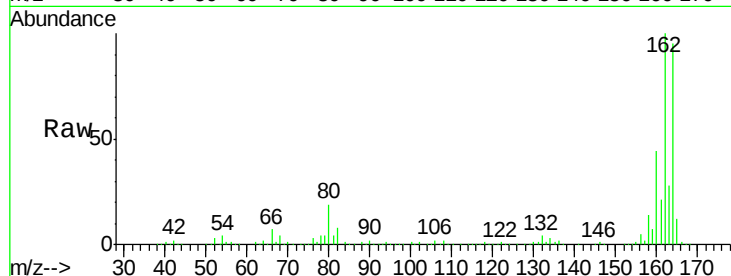
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1345
Delta R.T. -0.01 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Instrument :
BNA_F
ClientSampleId :
A2_SB54_W_N_8DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.5	86.1	129.1
160	46.8	38.3	57.5

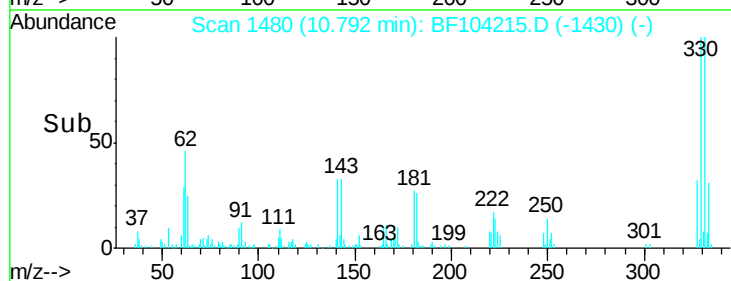
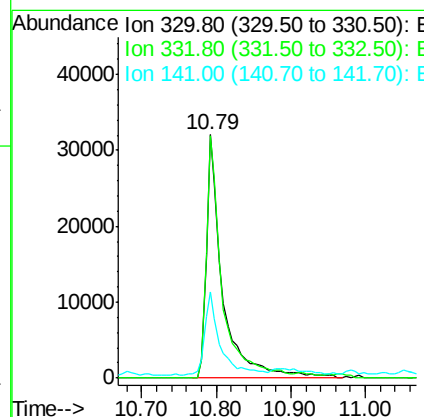
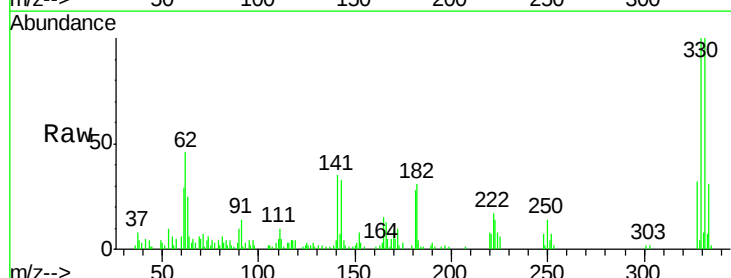
Manual Integrations
APPROVED

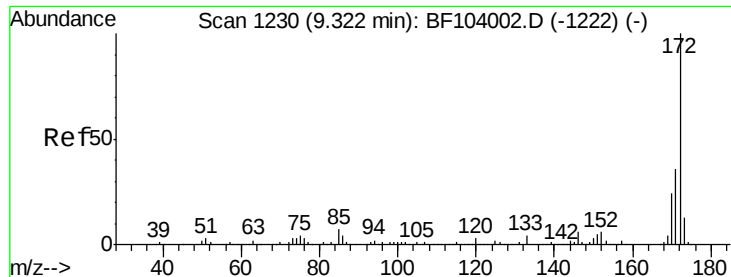
Sohil
4/4/2018 4:10:19 PM



#41
2,4,6-Tribromophenol
Concen: 19.214 ng
RT: 10.79 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.0	115.6
141	32.2	29.9	44.9





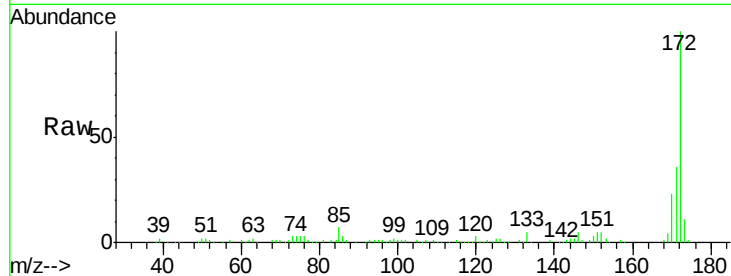
#44
2-Fluorobiphenyl
Concen: 13.882 ng
RT: 9.31 min Scan# 1228
Delta R.T. -0.01 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Instrument :
BNA_F
ClientSampleId :
A2_SB54_W_N_8DL

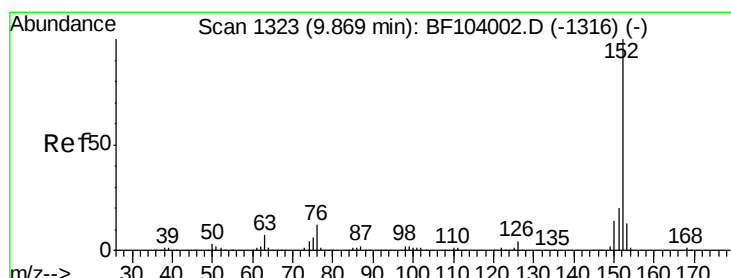
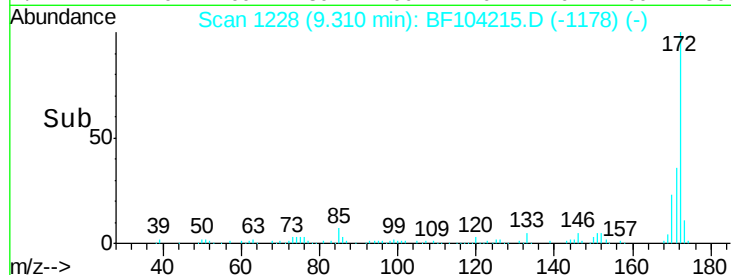
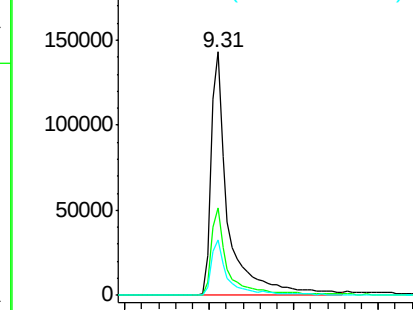
Tot Ion	Ratio	Resp	Lower	Upper
172	100	203564		
171	35.9		29.7	44.5
170	22.7		19.6	29.4

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:19 PM

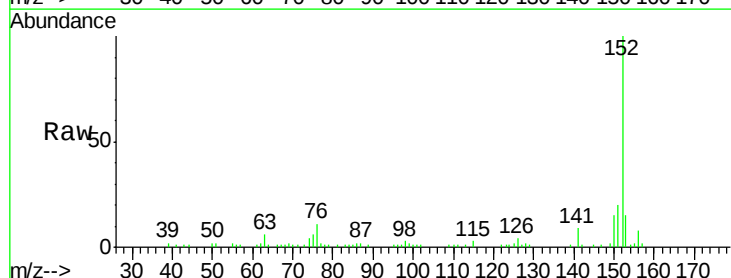


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

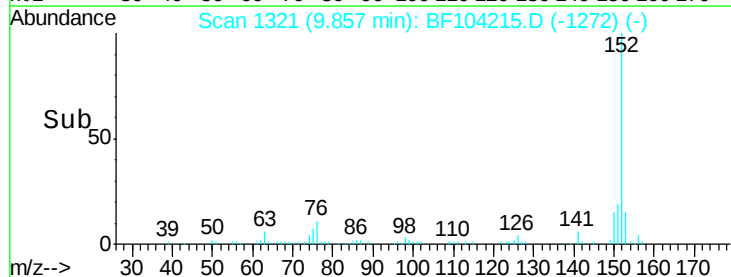
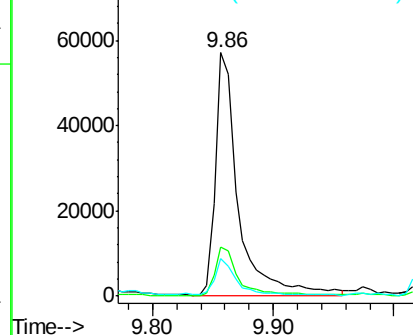


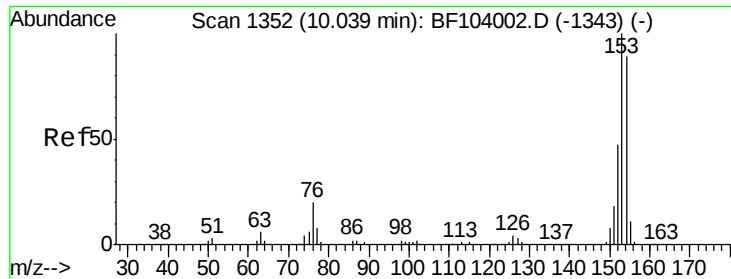
#48
Acenaphthylene
Concen: 3.205 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	76012		
151	19.9		16.3	24.5
153	15.3		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





#51

Acenaphthene

Concen: 3.826 ng

RT: 10.03 min Scan# 1350

Delta R.T. -0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Instrument :

BNA_F

ClientSampleId :

A2_SB54_W_N_8DL

Tot Ion:154 Resp: 52489

Ion Ratio Lower Upper

154 100

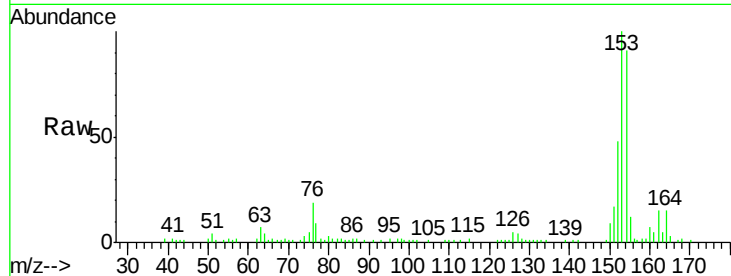
153 110.0 91.2 136.8

152 52.7 43.8 65.8

Manual Integrations
APPROVED

Sohil

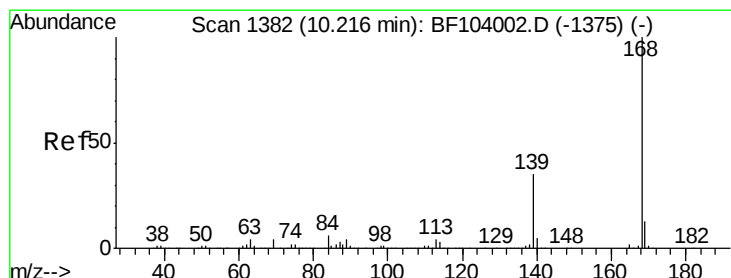
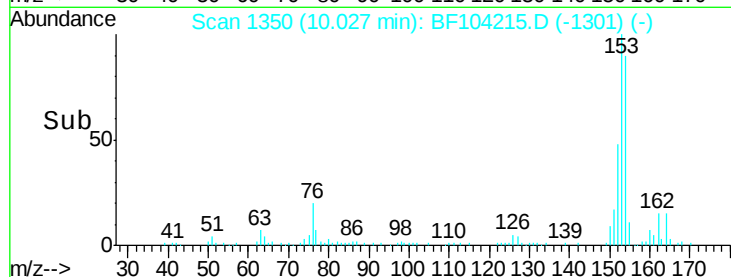
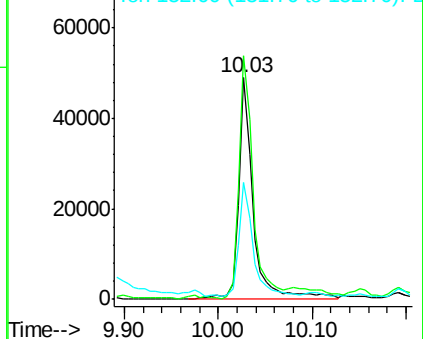
4/4/2018 4:10:19 PM



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.510 ng

RT: 10.21 min Scan# 1381

Delta R.T. -0.00 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

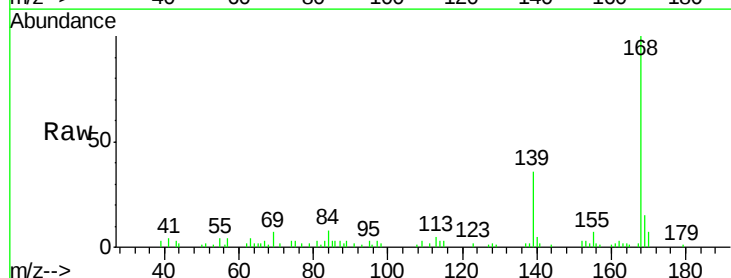
Tgt Ion:168 Resp: 50292

Ion Ratio Lower Upper

168 100

139 36.3 30.1 45.1

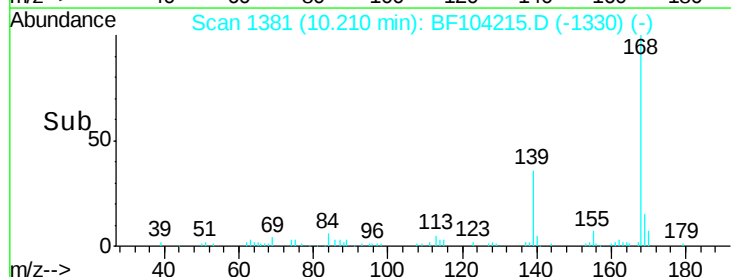
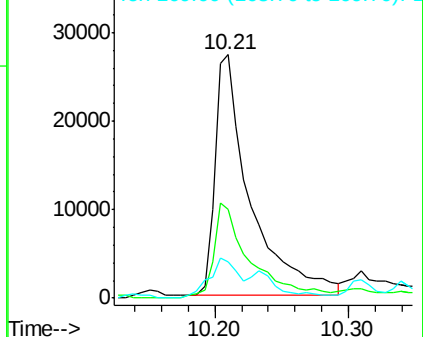
169 15.0 10.9 16.3

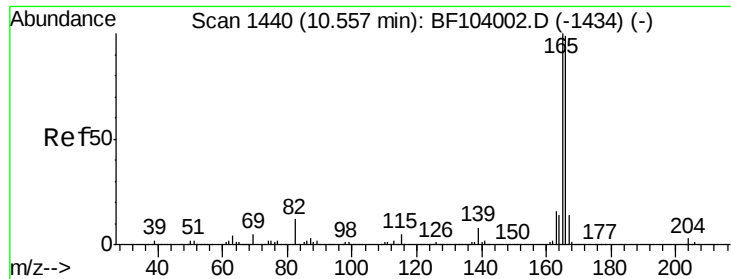


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





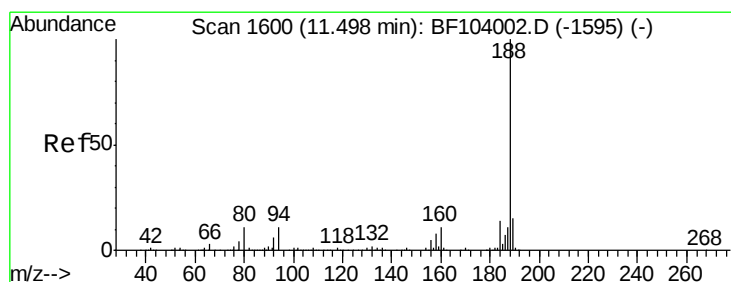
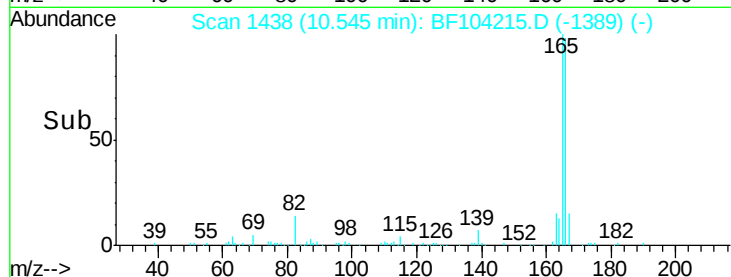
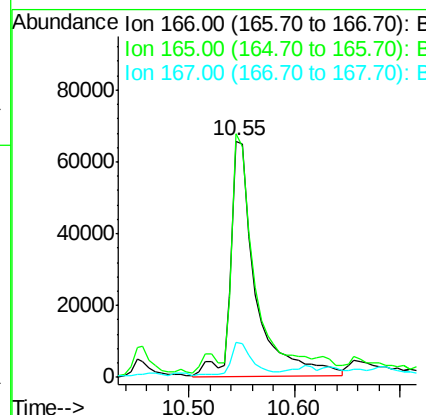
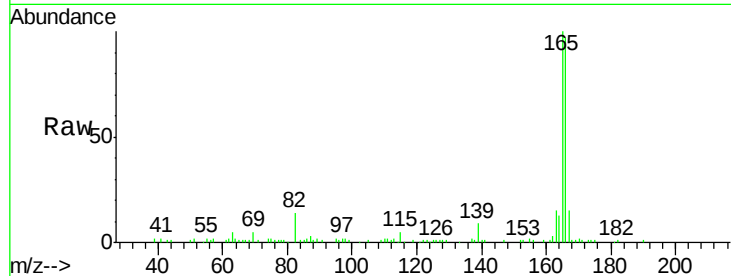
#57
Fluorene
 Concen: 6.420 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF104215.D
 Acq: 4 Apr 2018 8:53

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB54_W_N_8DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	103.1	79.8	119.8	
167	15.0	10.6	16.0	

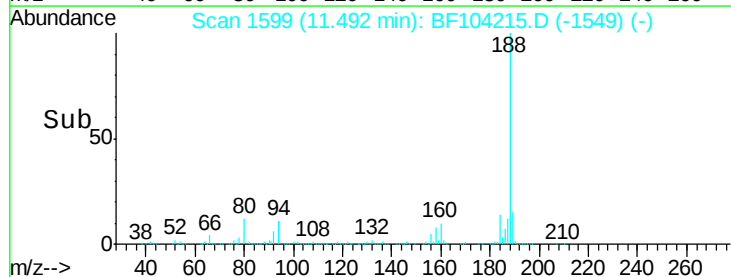
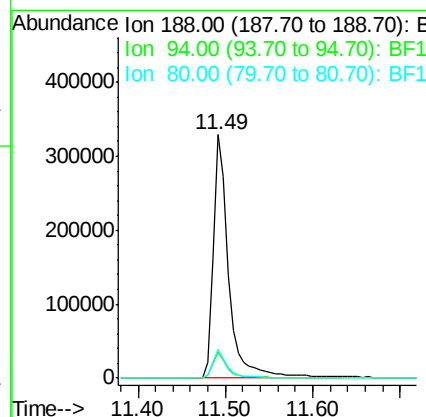
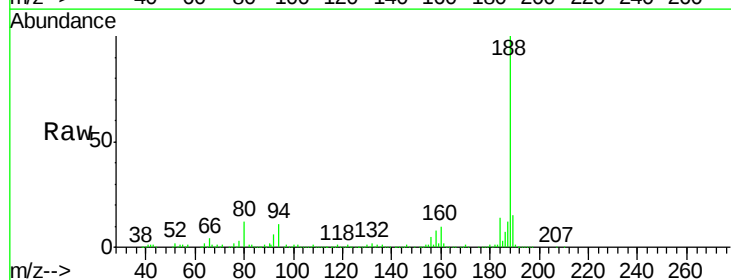
Manual Integrations
 APPROVED

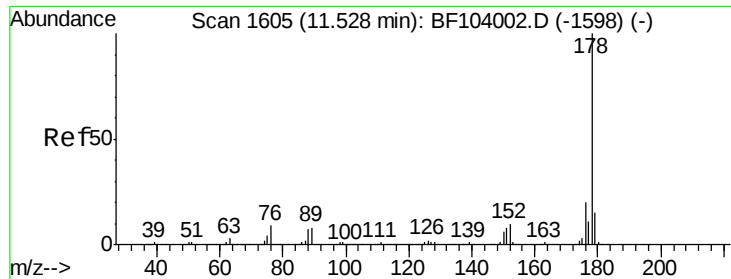
Sohil
 4/4/2018 4:10:19 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. -0.01 min
 Lab File: BF104215.D
 Acq: 4 Apr 2018 8:53

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.7	8.5	12.7	
80	11.7	9.2	13.8	





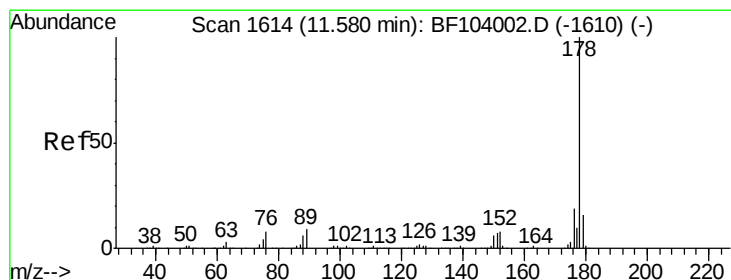
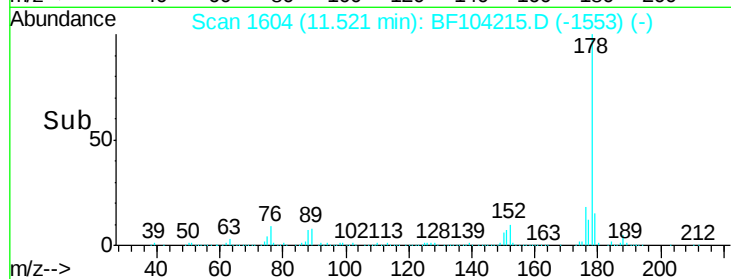
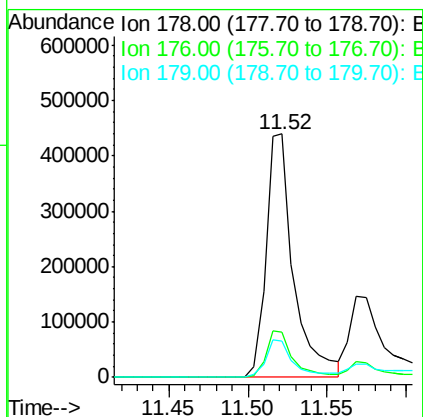
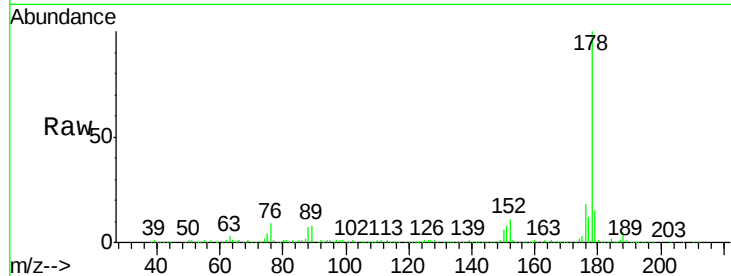
#70
Phenanthrene
Concen: 24.185 ng
RT: 11.52 min Scan# 1604
Delta R.T. -0.00 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Instrument :
BNA_F
ClientSampleId :
A2_SB54_W_N_8DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.8	23.8
179	15.0	13.0	19.6

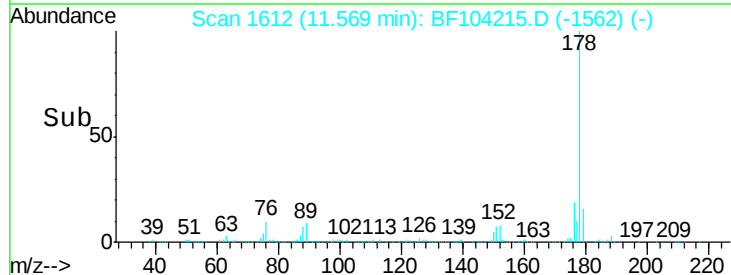
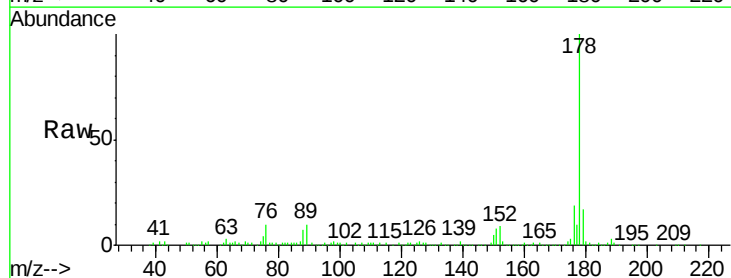
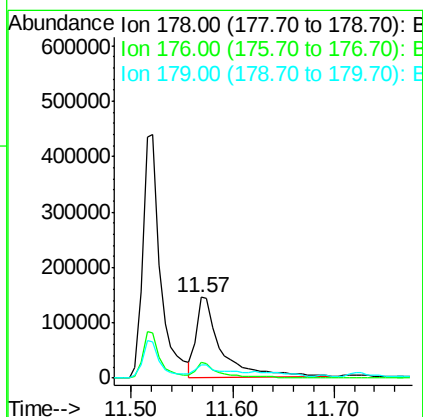
Manual Integrations
APPROVED

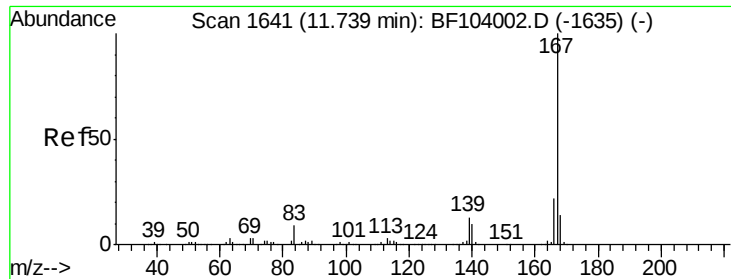
Sohil
4/4/2018 4:10:19 PM



#71
Anthracene
Concen: 10.434 ng
RT: 11.57 min Scan# 1612
Delta R.T. -0.01 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	16.5	12.6	19.0





#72

Carbazole

Concen: 3.226 ng

RT: 11.74 min Scan# 1641

Delta R.T. 0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Instrument :

BNA_F

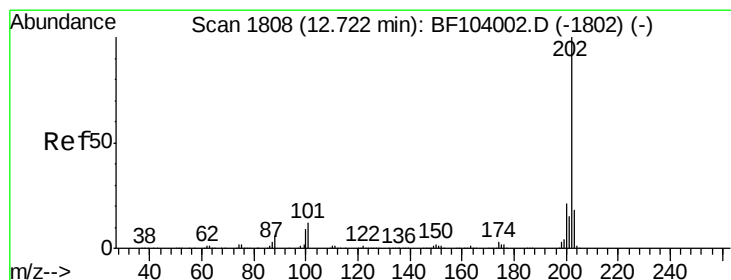
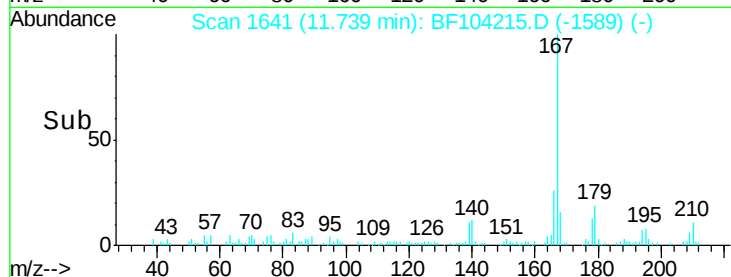
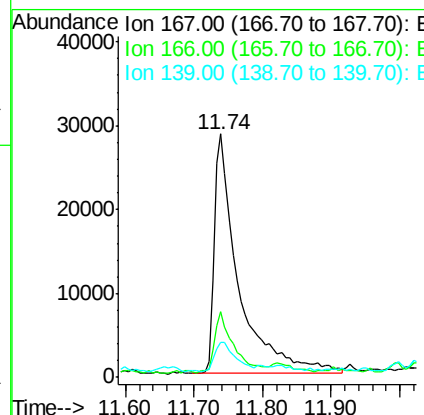
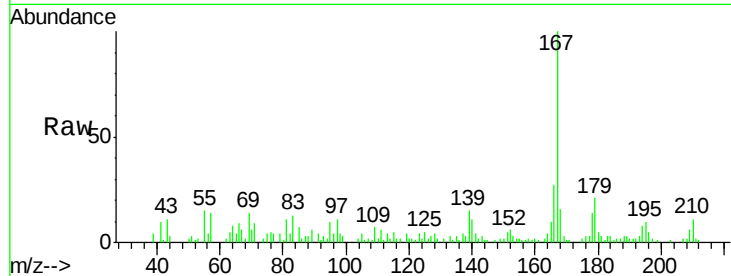
ClientSampleId :

A2_SB54_W_N_8DL

Tot Ion:	167	Resp:	70655
Ion Ratio	Lower	Upper	
167	100		
166	26.8	17.6	26.4#
139	14.6	10.9	16.3

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:19 PM



#74

Fluoranthene

Concen: 30.947 ng

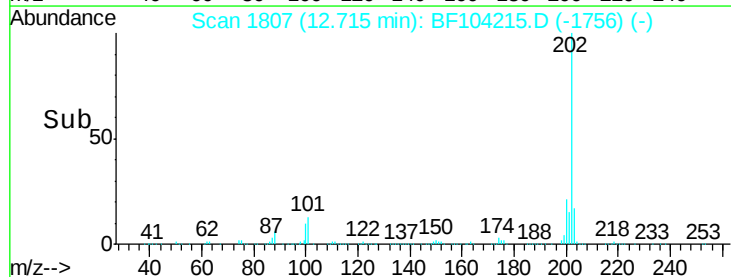
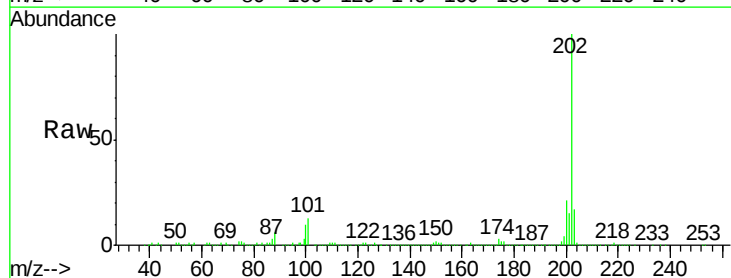
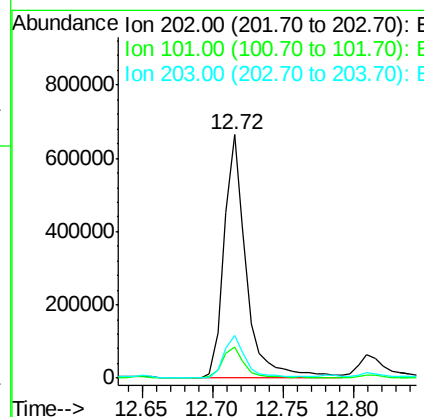
RT: 12.72 min Scan# 1807

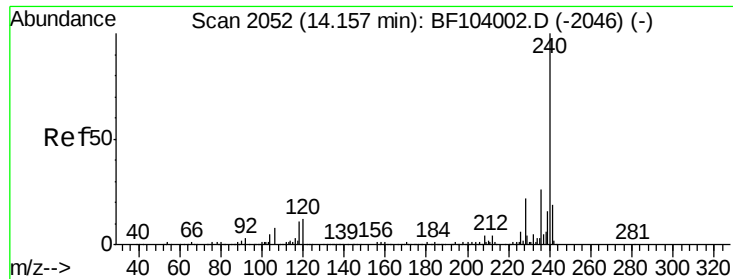
Delta R.T. -0.00 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Tgt Ion:	202	Resp:	722575
Ion Ratio	Lower	Upper	
202	100		
101	12.8	0.0	34.1
203	17.4	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Instrument :

BNA_F

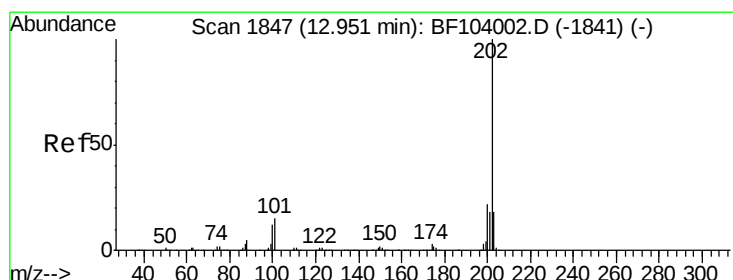
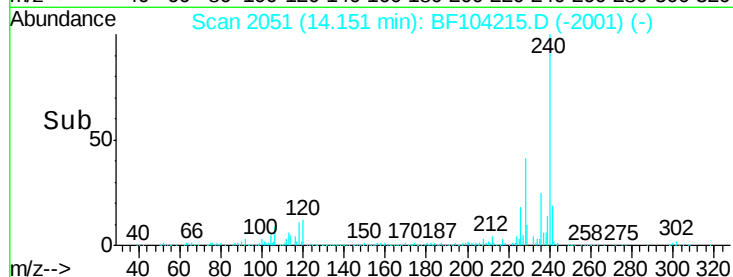
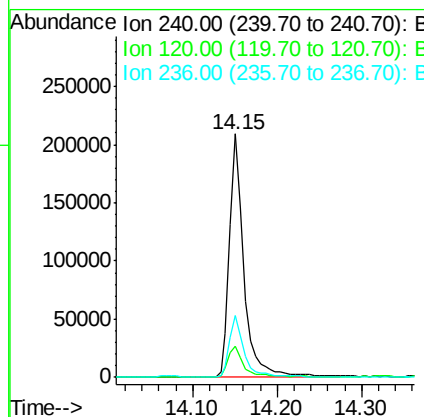
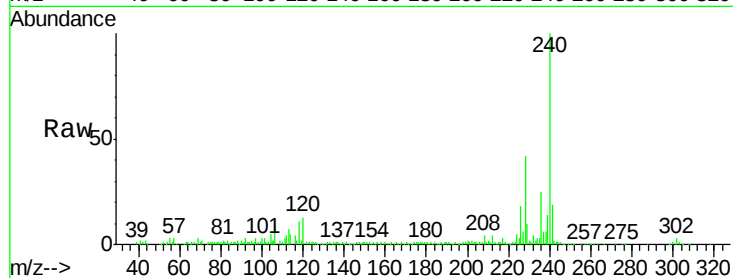
ClientSampleId :

A2_SB54_W_N_8DL

Tot Ion:	240	Resp:	249268
Ion Ratio	Lower	Upper	
240	100		
120	12.6	9.5	14.3
236	25.2	20.7	31.1

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:19 PM



#77

Pyrene

Concen: 35.942 ng

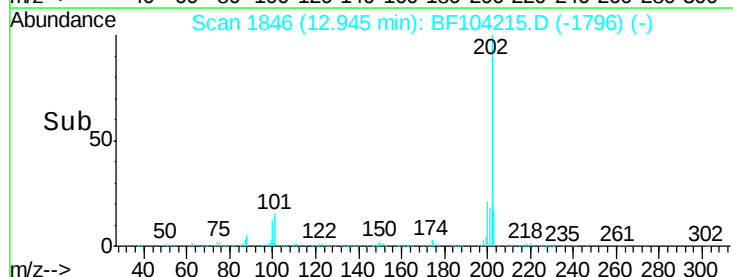
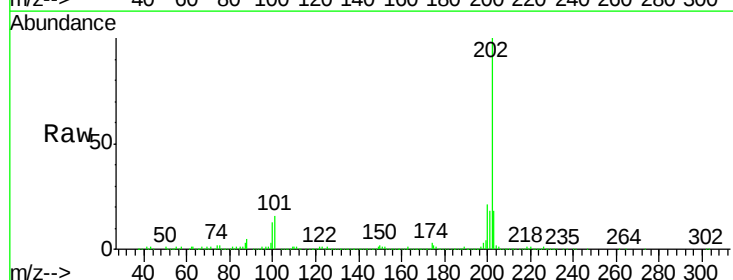
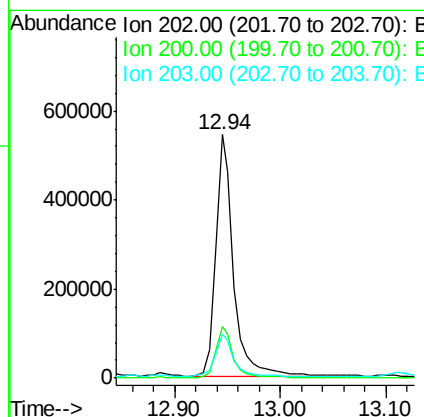
RT: 12.94 min Scan# 1846

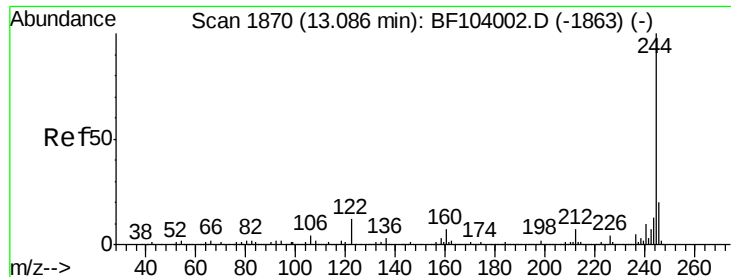
Delta R.T. -0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Tgt Ion:	202	Resp:	644046
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.4	26.2
203	18.1	14.3	21.5





#78

Terphenyl-d14

Concen: 14.891 ng

RT: 13.07 min Scan# 1868

Delta R.T. -0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Instrument :

BNA_F

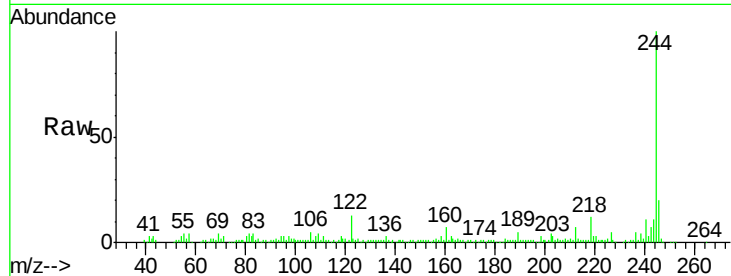
ClientSampleId :

A2_SB54_W_N_8DL

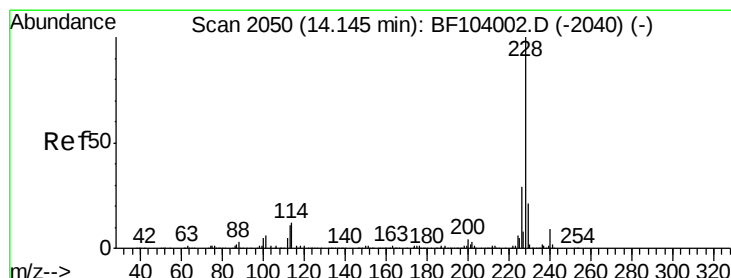
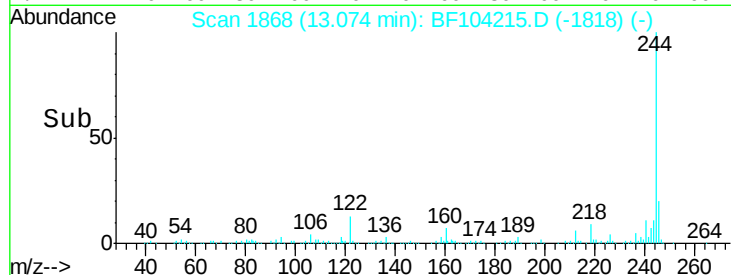
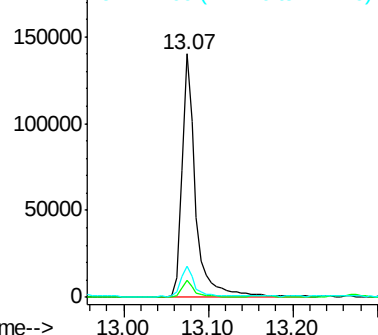
Tot Ion:	244	Resp:	160758
Ion Ratio	Lower	Upper	
244	100		
212	6.8	5.4	8.0
122	12.9	11.0	16.4

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:19 PM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 16.855 ng

RT: 14.14 min Scan# 2049

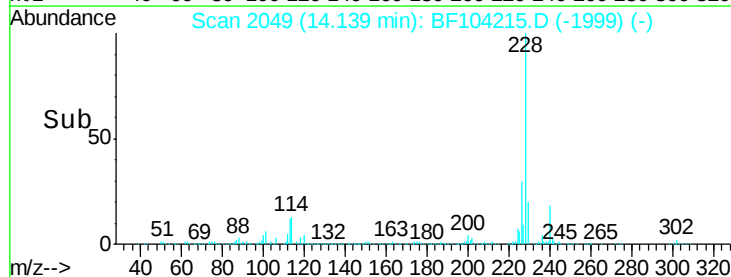
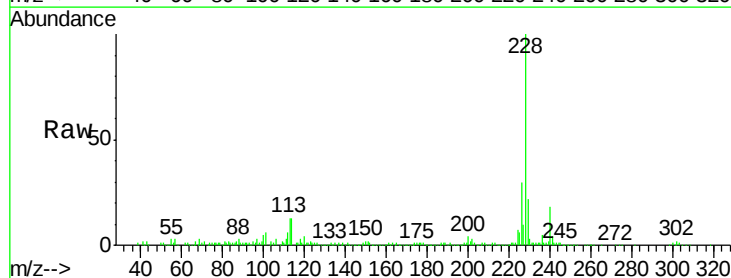
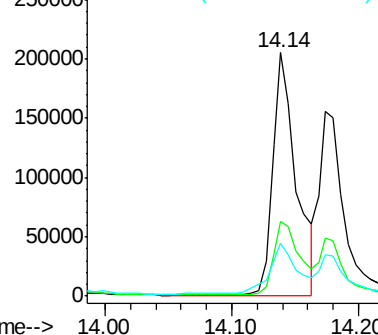
Delta R.T. -0.01 min

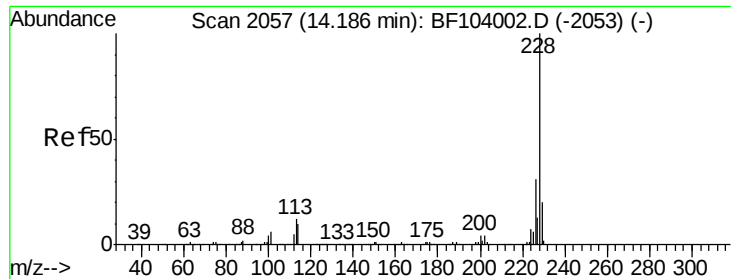
Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Tgt Ion:	228	Resp:	262887
Ion Ratio	Lower	Upper	
228	100		
226	30.5	22.6	33.8
229	21.6	15.8	23.6

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 12.642 ng

RT: 14.17 min Scan# 2055

Delta R.T. -0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Instrument :

BNA_F

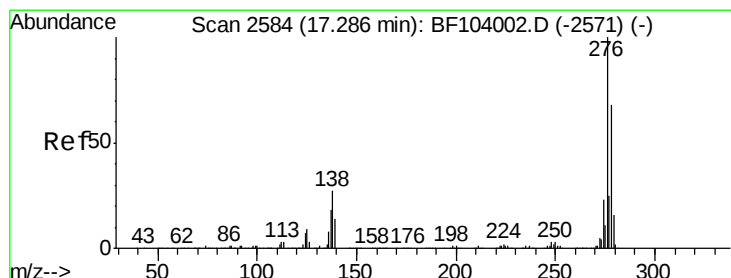
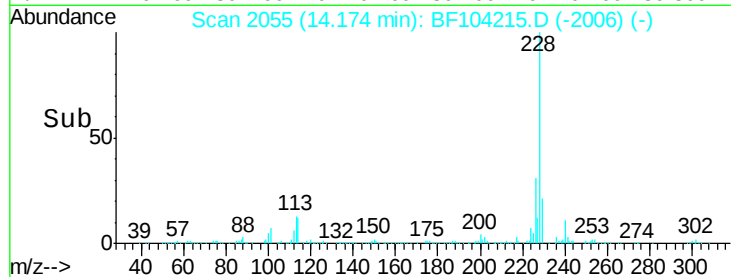
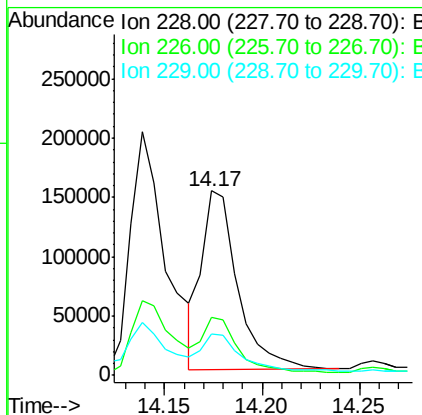
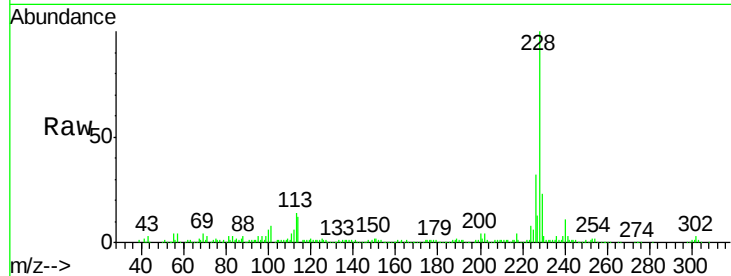
ClientSampleId :

A2_SB54_W_N_8DL

Tot Ion:	228	Resp:	193129
Ion Ratio	Lower	Upper	
228	100		
226	31.5	25.0	37.6
229	22.7	16.2	24.4

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:19 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.072 ng m

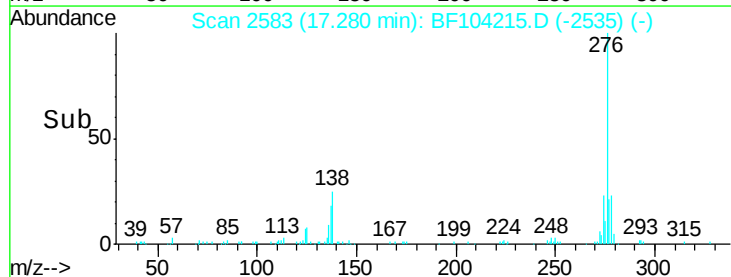
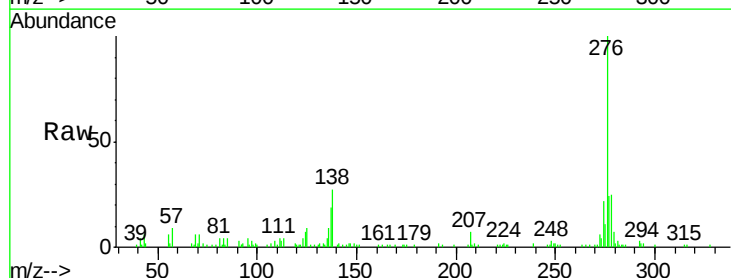
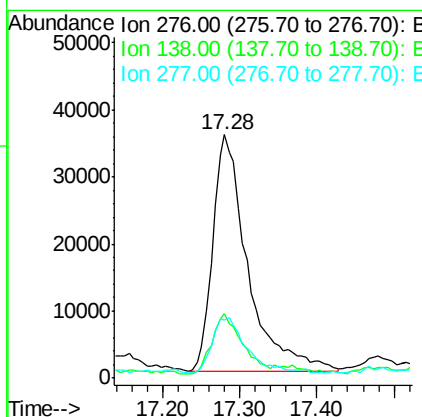
RT: 17.28 min Scan# 2583

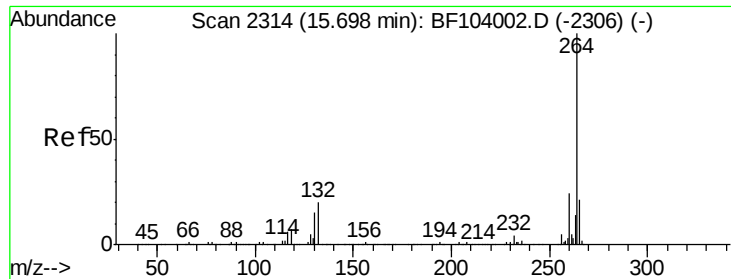
Delta R.T. -0.02 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Tgt Ion:	276	Resp:	111960
Ion Ratio	Lower	Upper	
276	100		
138	5.4	25.0	37.6#
277	4.4	20.1	30.1#





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2313

Delta R.T. -0.01 min

Lab File: BF104215.D

Acq: 4 Apr 2018 8:53

Instrument :

BNA_F

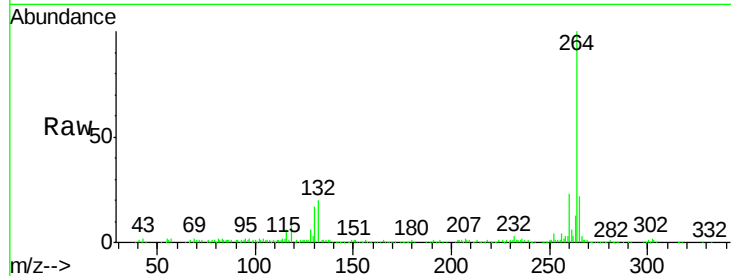
ClientSampleId :

A2_SB54_W_N_8DL

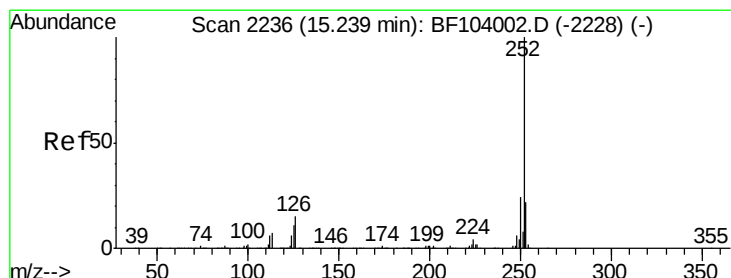
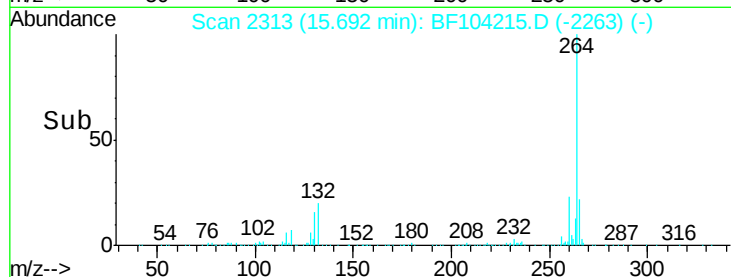
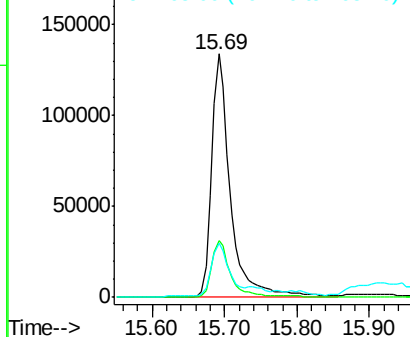
Tot Ion	Ion	Ratio	Resp	Lower	Upper
264	100				
260	23.1	19.2	28.8		
265	22.2	17.5	26.3		

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:19 PM



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: 15.154 ng m

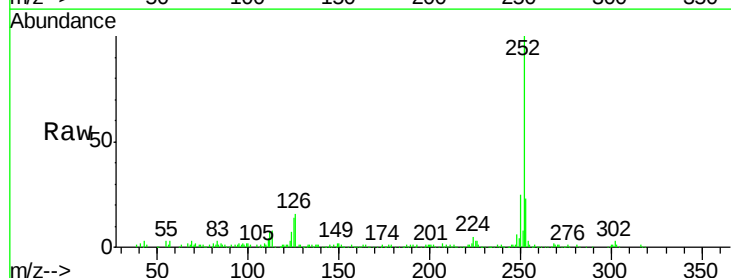
RT: 15.23 min Scan# 2235

Delta R.T. -0.01 min

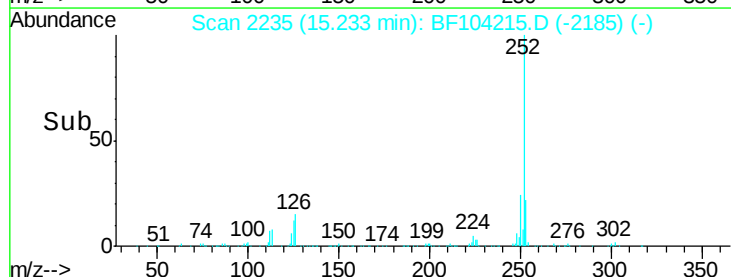
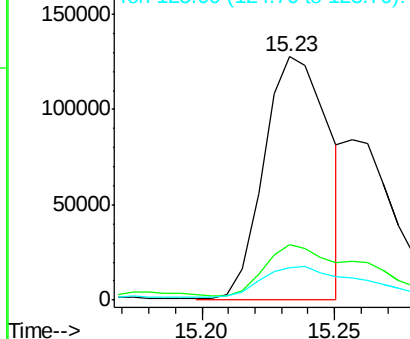
Lab File: BF104215.D

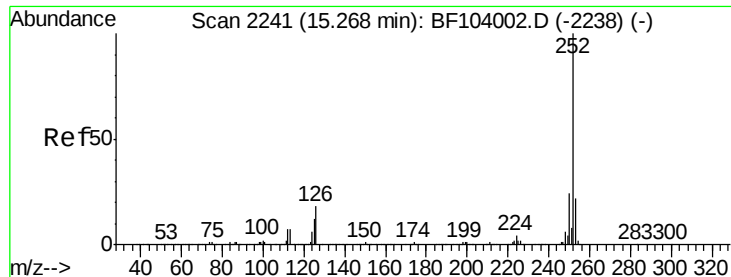
Acq: 4 Apr 2018 8:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
252	100				
253	22.9	17.0	25.6		
125	13.5	9.0	13.6		



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





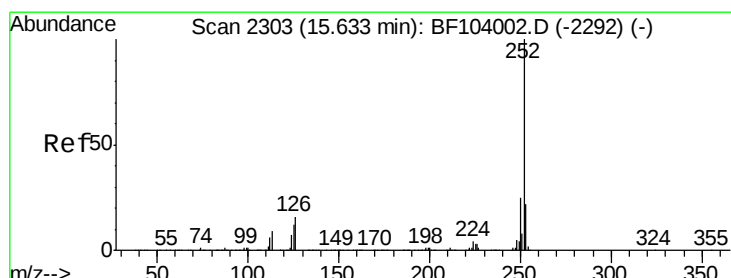
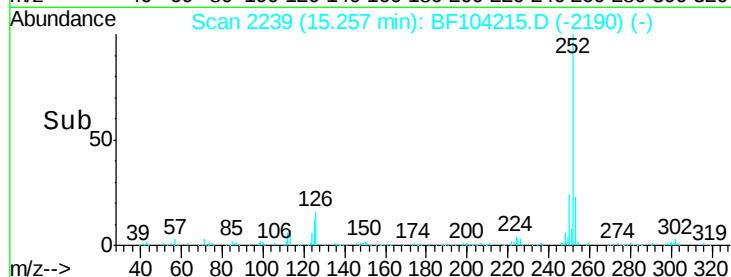
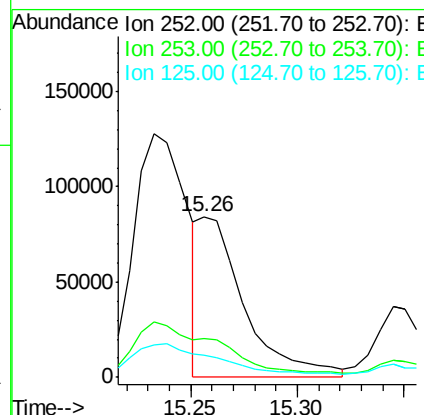
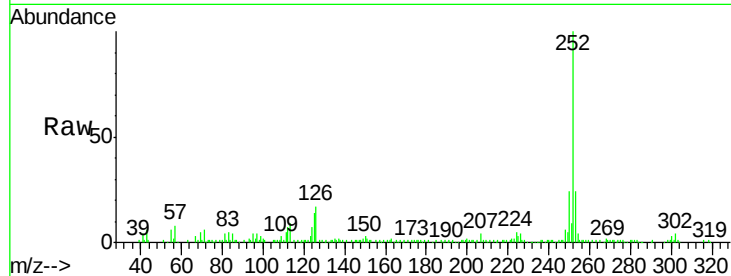
#88
Benzo(k)fluoranthene
Concen: 9.136 ng m
RT: 15.26 min Scan# 2239
Delta R.T. -0.01 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Instrument :
BNA_F
ClientSampleId :
A2_SB54_W_N_8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	14.1	10.2	15.2

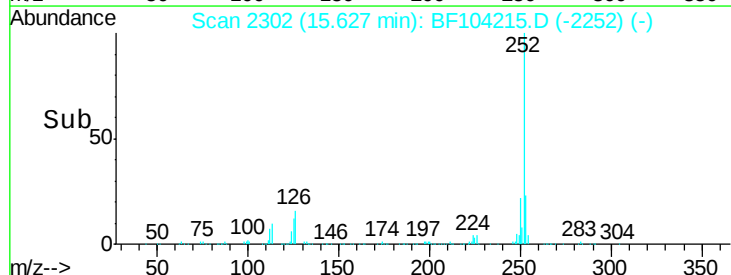
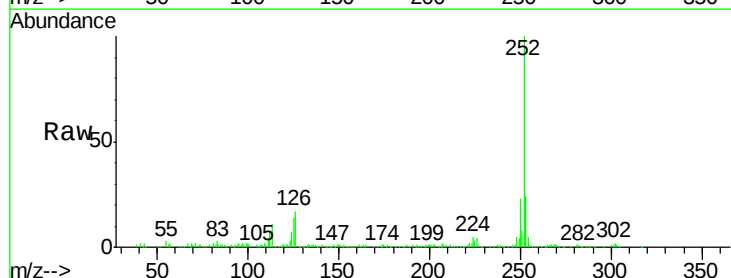
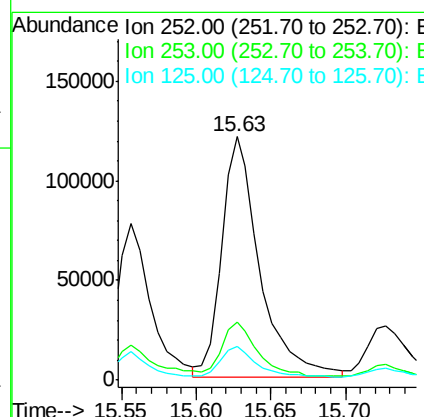
Manual Integrations
APPROVED

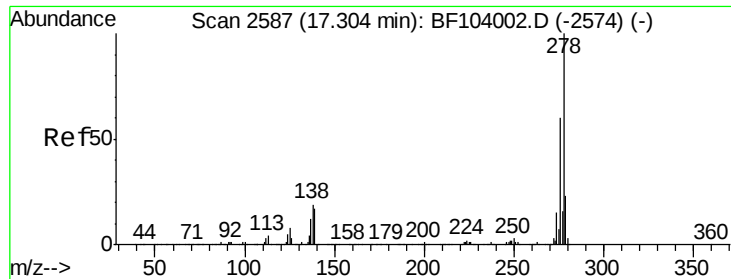
Sohil
4/4/2018 4:10:19 PM



#89
Benzo(a)pyrene
Concen: 16.108 ng
RT: 15.63 min Scan# 2302
Delta R.T. -0.01 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.1	25.7
125	13.8	9.8	14.6





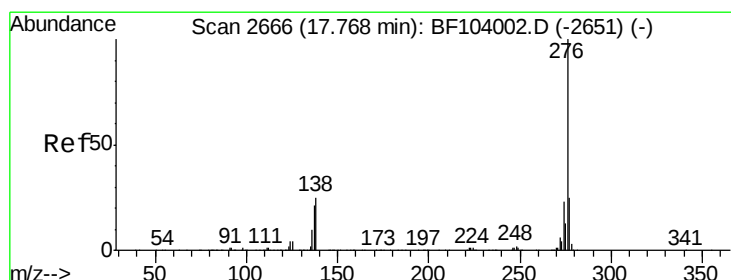
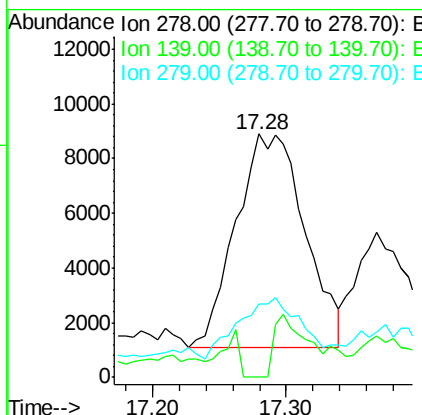
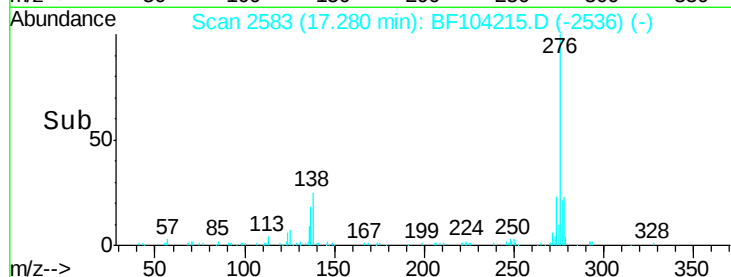
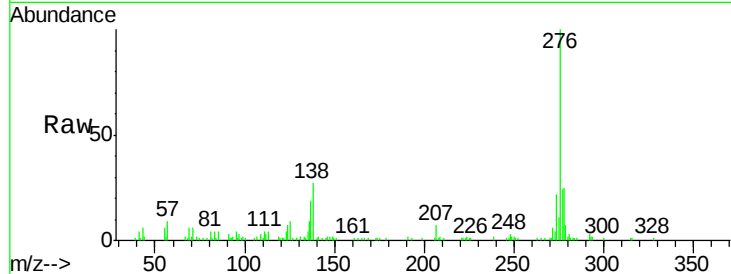
#90
Dibenzo(a,h)anthracene
Concen: 2.255 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.02 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Instrument :
BNA_F
ClientSampleId :
A2_SB54_W_N_8DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	30.1	19.0	28.4#

Manual Integrations
APPROVED

Sohil
4/4/2018 4:10:19 PM



#91
Benzo(g,h,i)perylene
Concen: 8.036 ng
RT: 17.76 min Scan# 2665
Delta R.T. -0.02 min
Lab File: BF104215.D
Acq: 4 Apr 2018 8:53

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	17.9	26.9
138	27.2	21.8	32.8

