

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
 Data File : BF103895.D
 Acq On : 23 Mar 2018 22:45
 Operator : JU/SJ
 Sample : J1996-02 5X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_SE_4

Manual Integrations
 APPROVED

Sohil
 3/26/2018 4:33:30 PM

Quant Time: Mar 24 02:01:37 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	140394	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	536757	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	217903	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	333595	20.00	ng	0.00
75) Chrysene-d12	14.17	240	232062	20.00	ng	0.00
86) Perylene-d12	15.72	264	202795	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	216596	23.47	ng	0.00
7) Phenol-d6	6.59	99	274658	24.32	ng	-0.01
23) Nitrobenzene-d5	7.53	82	153759	19.98	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	38760	20.69	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	275718	20.18	ng	0.00
78) Terphenyl-d14	13.10	244	212437	21.25	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.28	128	799717	29.494	ng	99
37) 2-Methylnaphthalene	8.97	142	272794	15.865	ng	96
45) 1,1'-Biphenyl	9.43	154	106370	5.854	ng	97
48) Acenaphthylene	9.88	152	624770	27.918	ng	100
51) Acenaphthene	10.05	154	77619	5.841	ng	97
54) Dibenzofuran	10.22	168	418587	22.056	ng	100
57) Fluorene	10.57	166	615696	41.809	ng	99
70) Phenanthrene	11.55	178	2471057	135.412	ng	99
71) Anthracene	11.59	178	858709	46.331	ng	99
72) Carbazole	11.74	167	299739	16.639	ng	100
74) Fluoranthene	12.75	202	2699586	143.595	ng	99
77) Pyrene	12.98	202	2579464	151.355	ng	99
80) Benzo(a)anthracene	14.17	228	1303161m	88.714	ng	
82) Chrysene	14.20	228	1193023	85.199	ng	97
85) Indeno(1,2,3-cd)pyrene	17.32	276	552859m	45.210	ng	
87) Benzo(b)fluoranthene	15.27	252	1327440m	103.608	ng	
88) Benzo(k)fluoranthene	15.29	252	364253m	29.576	ng	
89) Benzo(a)pyrene	15.66	252	894596	76.983	ng	96
90) Dibenzo(a,h)anthracene	17.32	278	132863	13.204	ng	94
91) Benzo(a,h,i)perylene	17.80	276	538529	55.013	ng	96

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

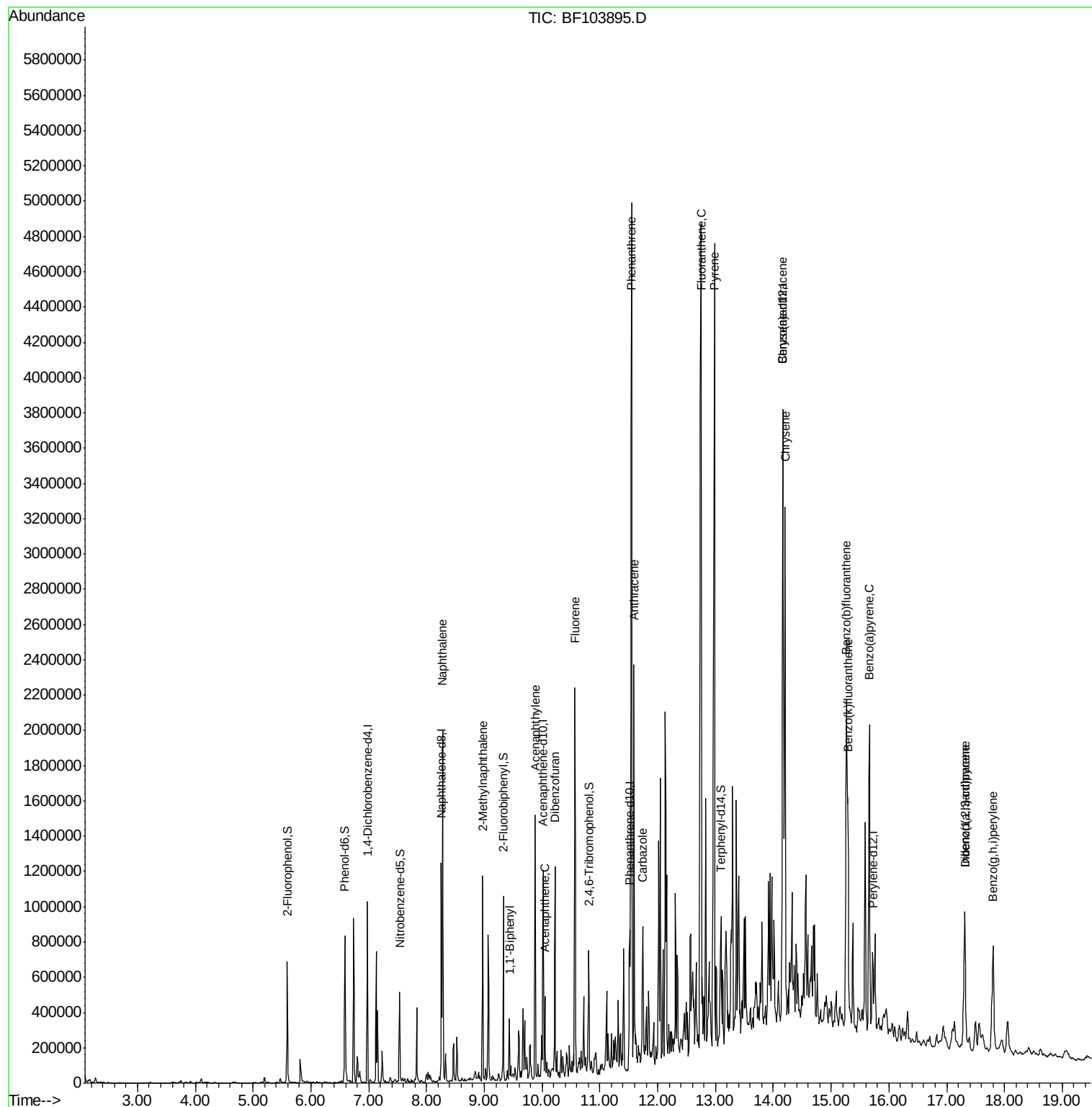
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
Data File : BF103895.D
Acq On : 23 Mar 2018 22:45
Operator : JU/SJ
Sample : J1996-02 5X
Misc :
ALS Vial : 28 Sample Multiplier: 1

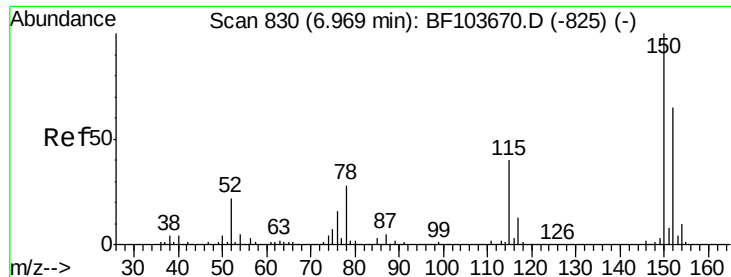
Instrument :
BNA_F
ClientSampleId :
A2 SB43 SE 4

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:30 PM

Quant Time: Mar 24 02:01:37 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 23 13:26:17 2018
Response via : Initial Calibration





#1

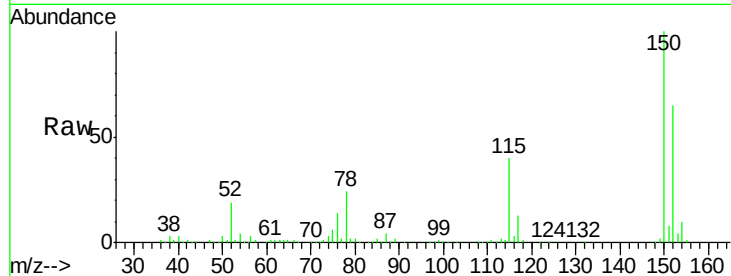
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4

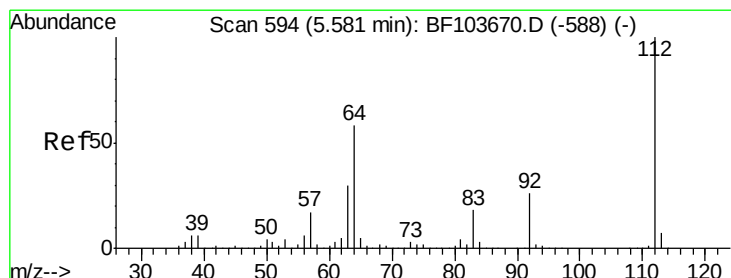
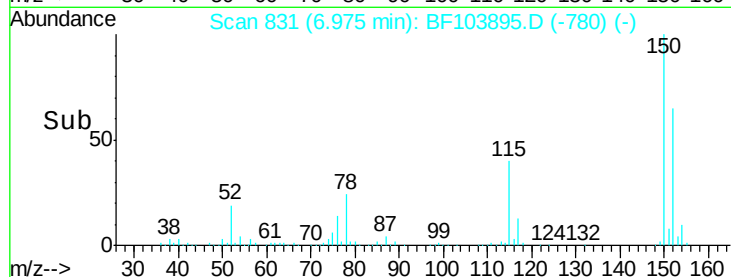
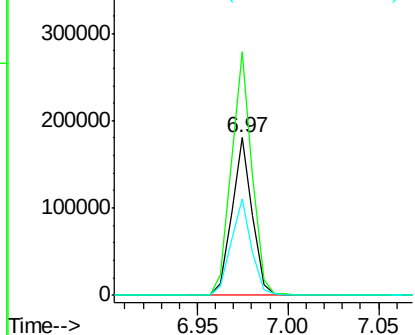
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.6	186.8
115	61.2	50.1	75.1

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:30 PM



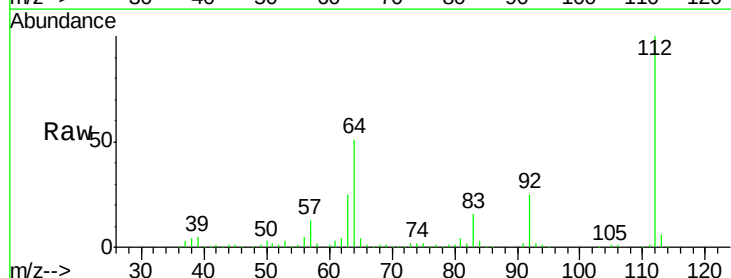
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



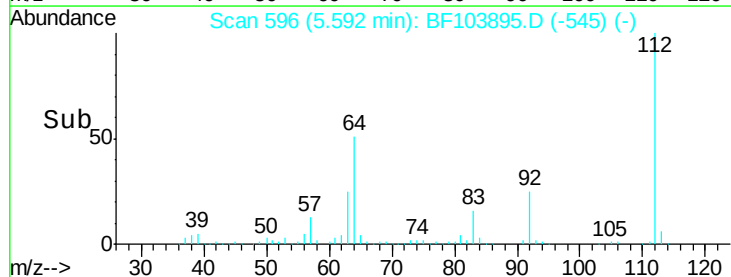
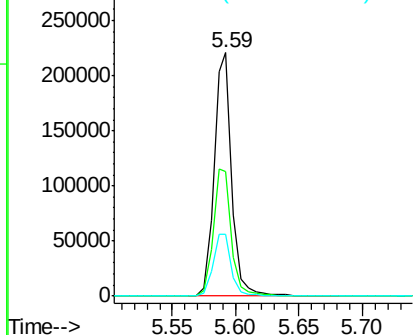
#5

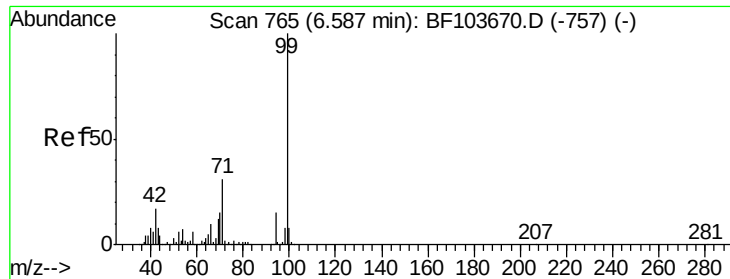
2-Fluorophenol
Concen: 23.465 ng
RT: 5.59 min Scan# 596
Delta R.T. -0.00 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.2	47.9	71.9
63	25.5	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 24.322 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Instrument :

BNA_F

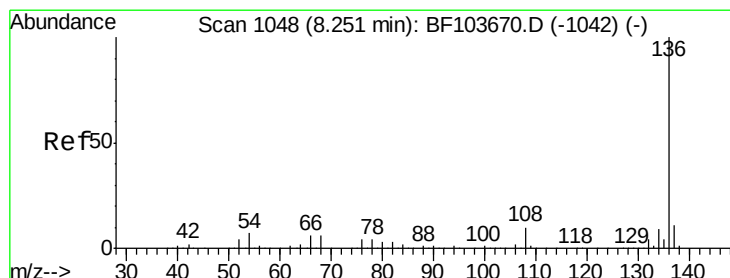
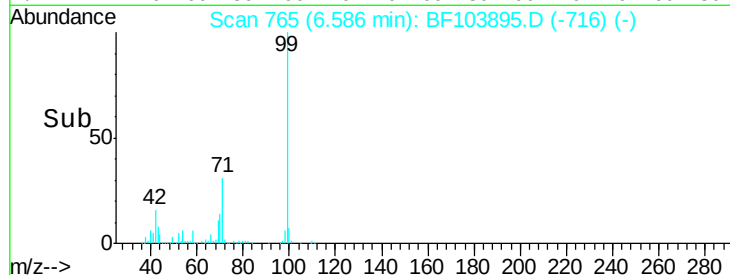
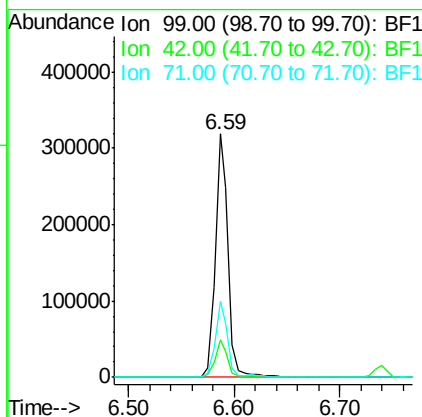
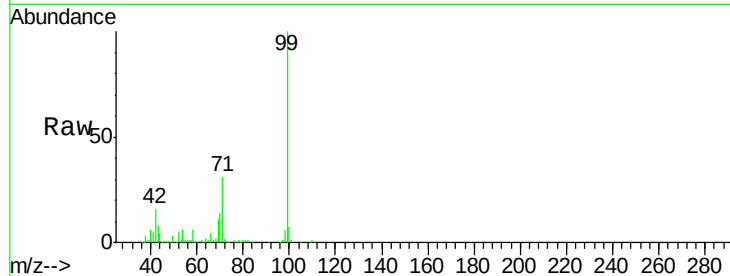
ClientSampleId :

A2_SB43_SE_4

Tot Ion:	99	Resp:	274658
Ion	Ratio	Lower	Upper
99	100		
42	15.5	14.5	21.7
71	31.4	25.4	38.0

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:30 PM



#21

Naphthalene-d8

Concen: 20.000 ng

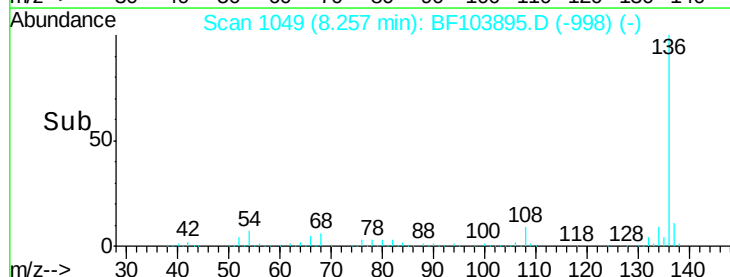
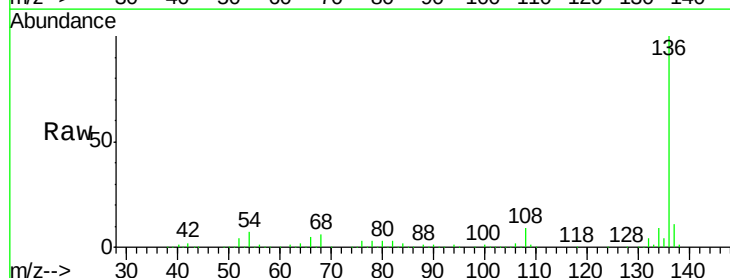
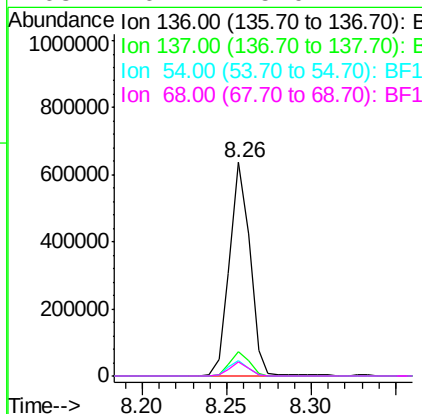
RT: 8.26 min Scan# 1049

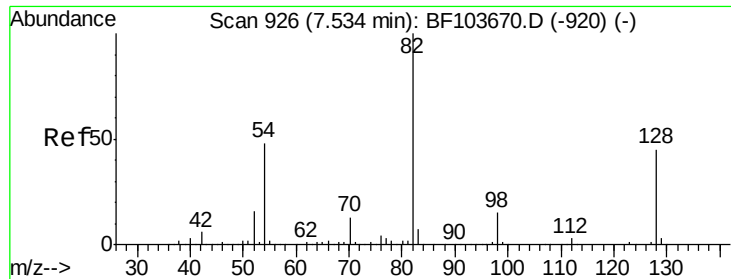
Delta R.T. -0.00 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Tgt Ion:	136	Resp:	536757
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	6.9	6.6	9.8
68	6.4	5.0	7.4





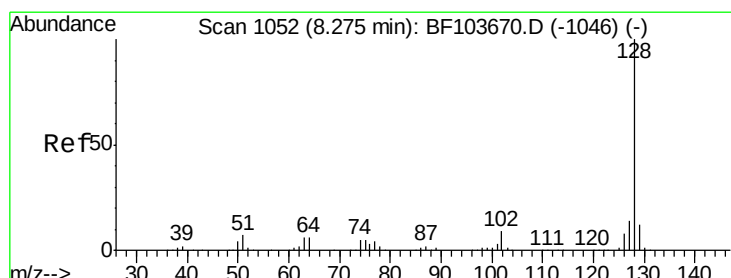
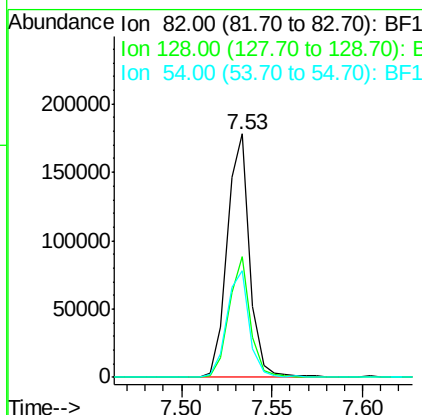
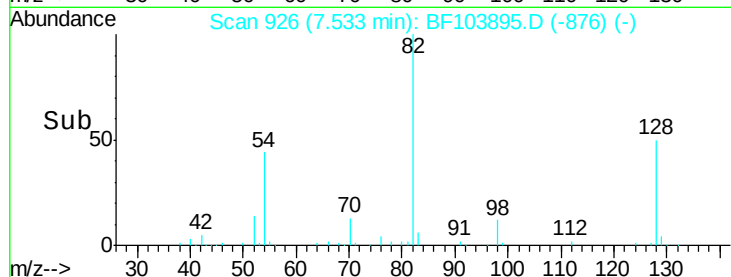
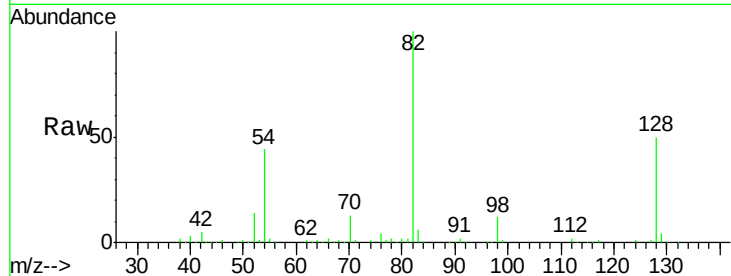
#23
Nitrobenzene-d5
Concen: 19.976 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.01 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.8	36.1	54.1
54	43.6	41.4	62.2

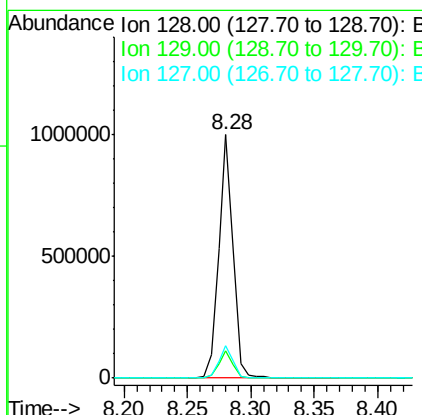
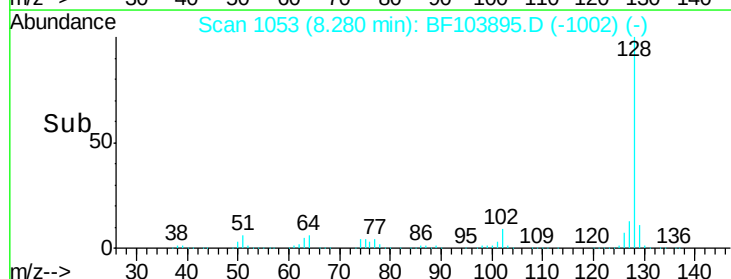
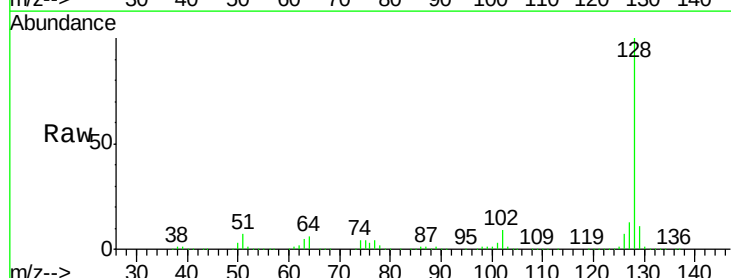
Manual Integrations
APPROVED

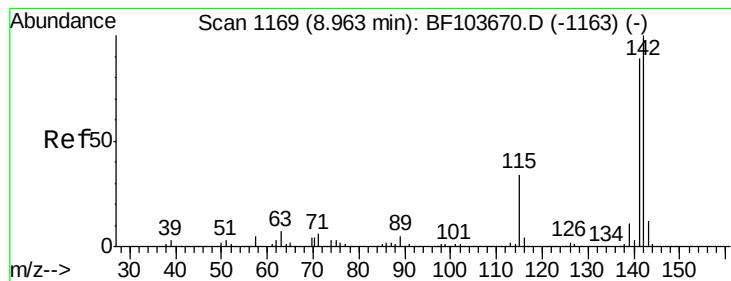
Sohil
3/26/2018 4:33:30 PM



#31
Naphthalene
Concen: 29.494 ng
RT: 8.28 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.3	10.9	16.3





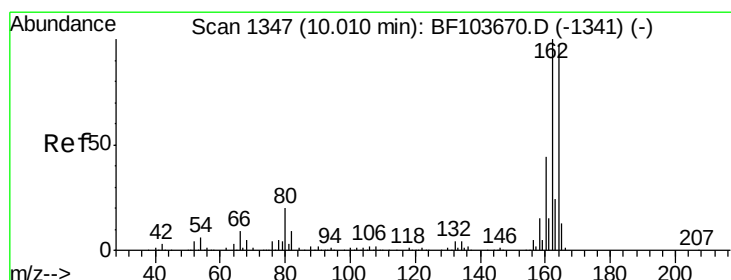
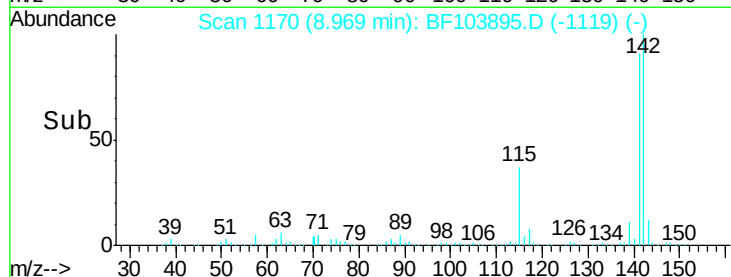
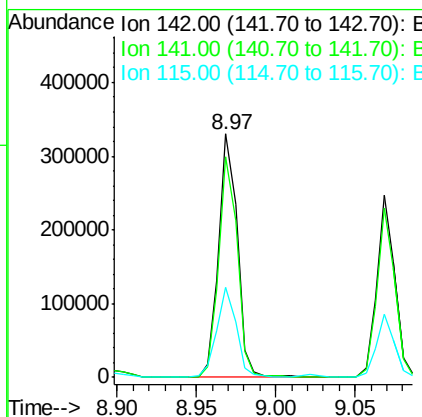
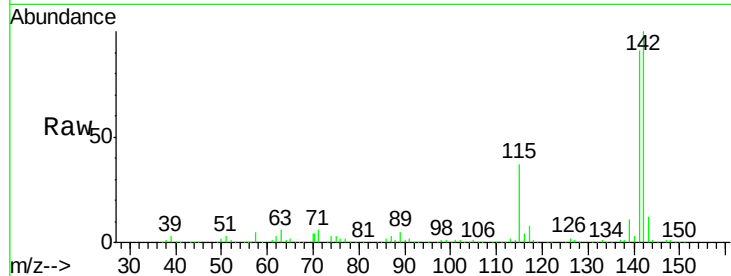
#37
2-Methylnaphthalene
Concen: 15.865 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	36.9	26.1	39.1

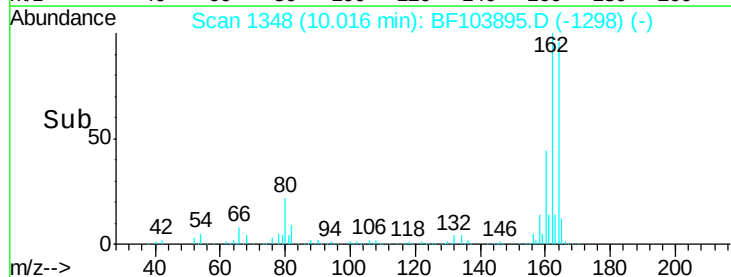
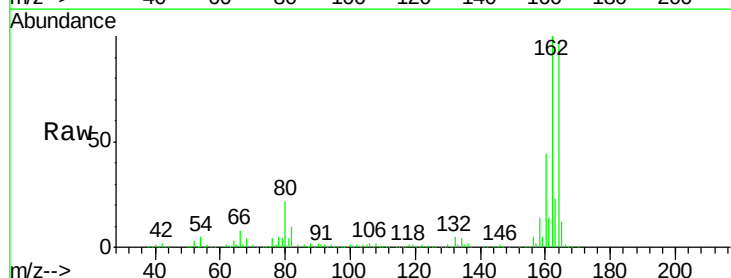
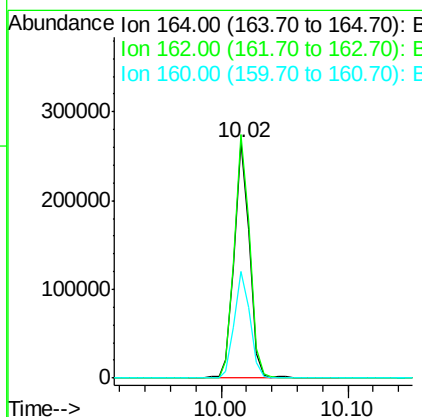
Manual Integrations
APPROVED

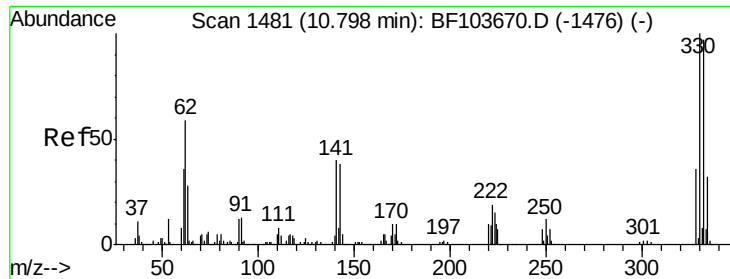
Sohil
3/26/2018 4:33:30 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	86.1	129.1
160	45.4	38.3	57.5





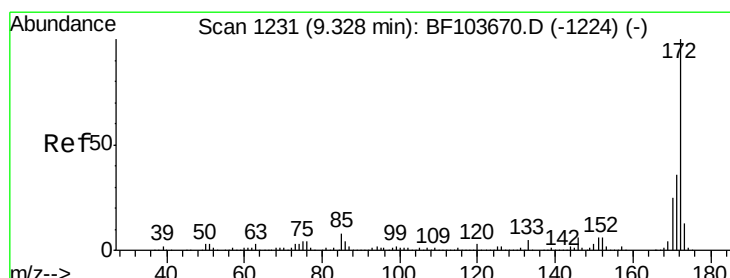
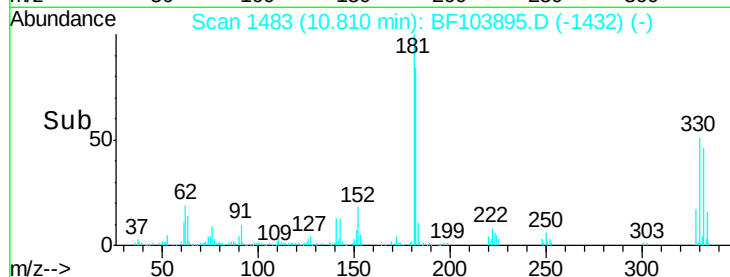
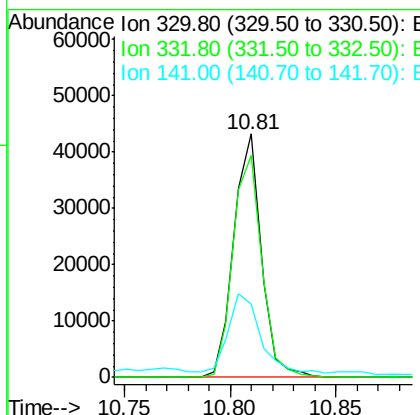
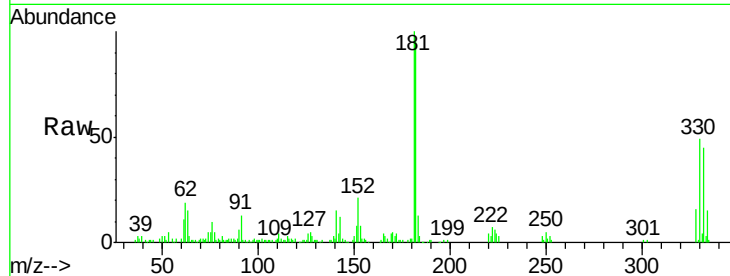
#41
 2,4,6-Tribromophenol
 Concen: 20.688 ng
 RT: 10.81 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: BF103895.D
 Acq: 23 Mar 2018 22:45

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.0	115.6
141	37.8	29.9	44.9

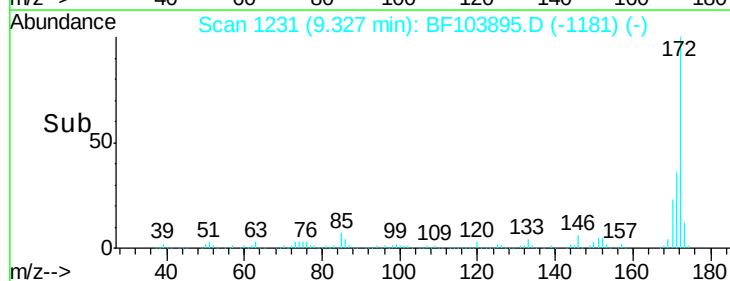
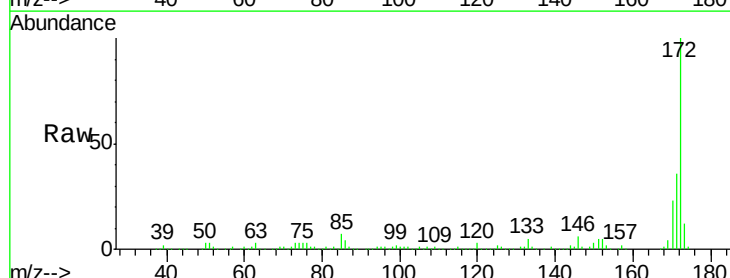
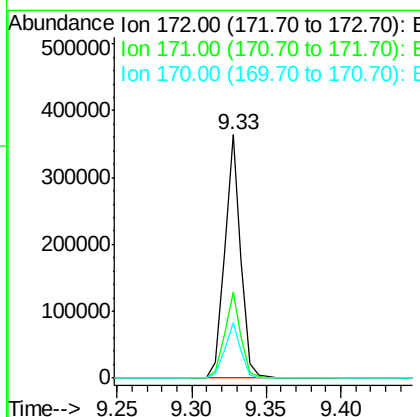
Manual Integrations
 APPROVED

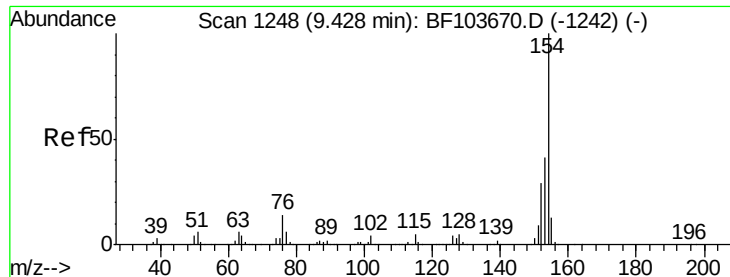
Sohil
 3/26/2018 4:33:30 PM



#44
 2-Fluorobiphenyl
 Concen: 20.184 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103895.D
 Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.7	44.5
170	23.0	19.6	29.4





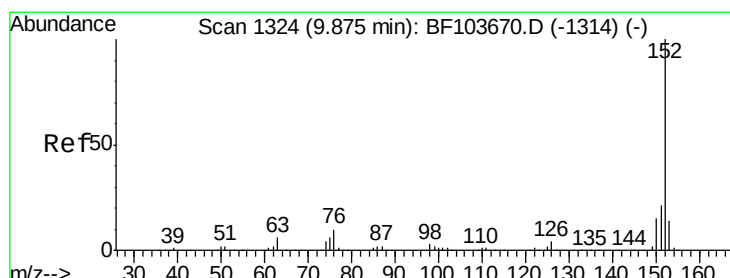
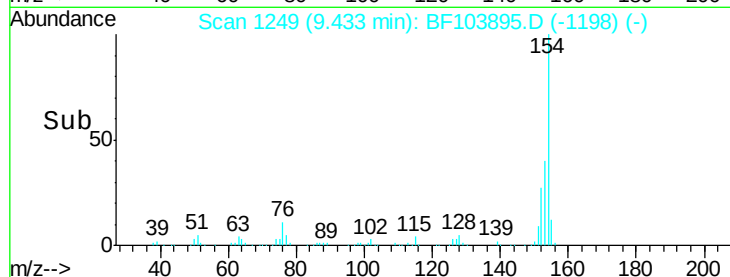
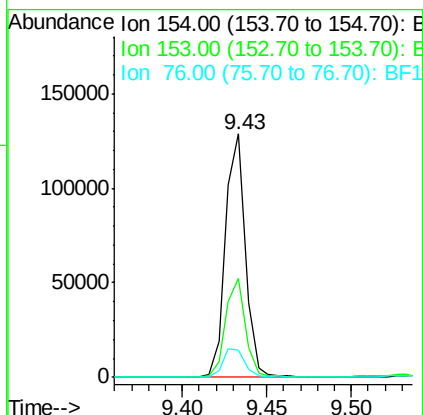
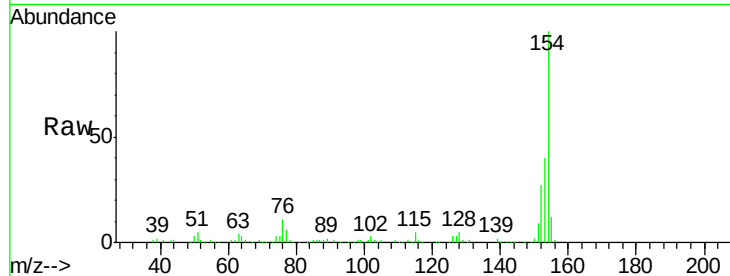
#45
1,1'-Biphenyl
Concen: 5.854 ng
RT: 9.43 min Scan# 1249
Delta R.T. -0.00 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.4	21.3	61.3	
76	11.2	0.0	34.0	

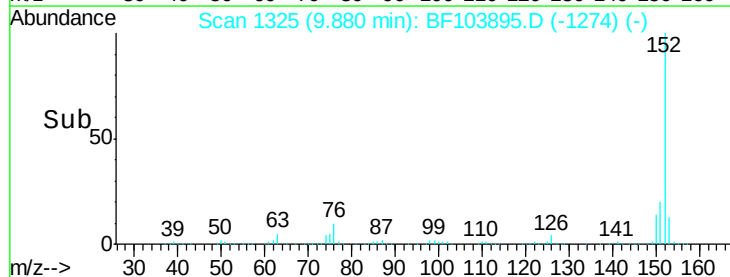
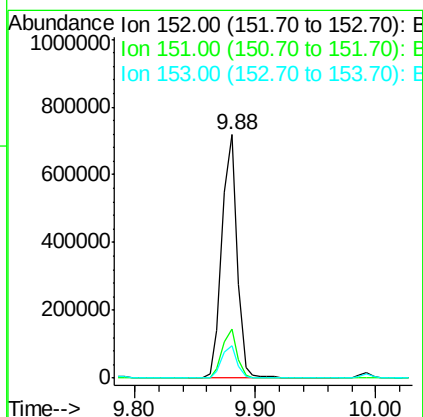
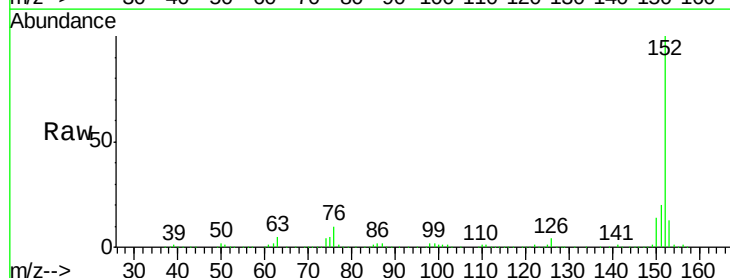
Manual Integrations
APPROVED

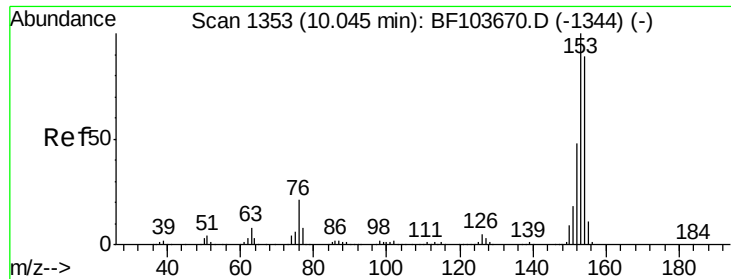
Sohil
3/26/2018 4:33:30 PM



#48
Acenaphthylene
Concen: 27.918 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.00 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	20.3	16.3	24.5	
153	13.3	10.7	16.1	





#51

Acenaphthene

Concen: 5.841 ng

RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Instrument :

BNA_F

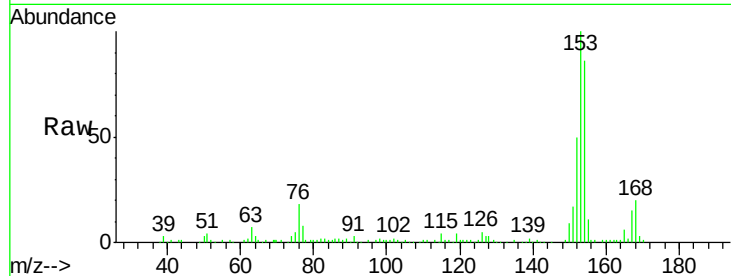
ClientSampleId :

A2_SB43_SE_4

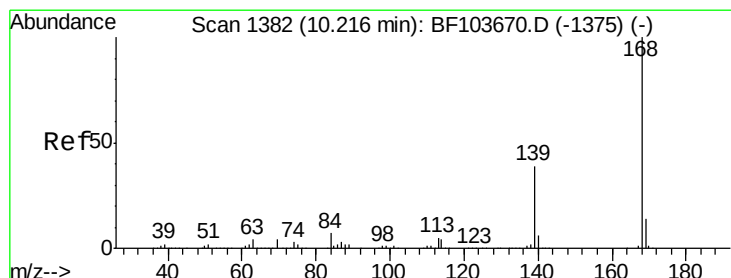
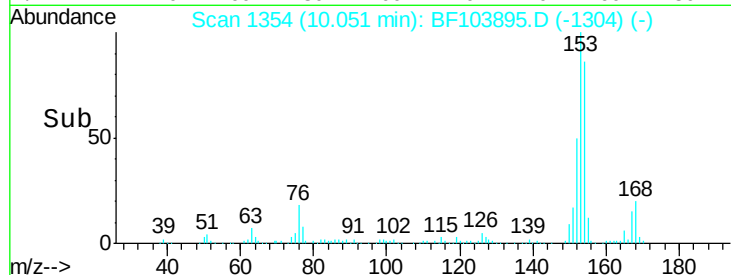
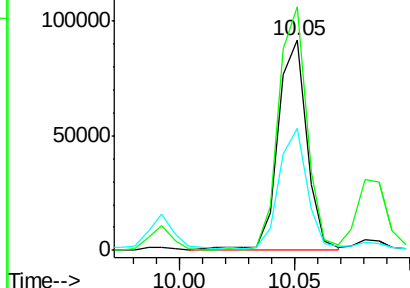
Tot Ion:	154	Resp:	77619
Ion	Ratio	Lower	Upper
154	100		
153	115.9	91.2	136.8
152	58.2	43.8	65.8

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:30 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: 22.056 ng

RT: 10.22 min Scan# 1383

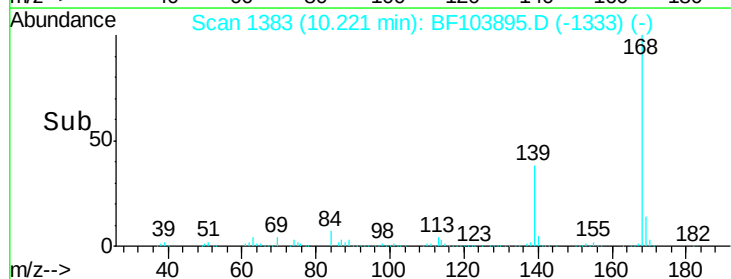
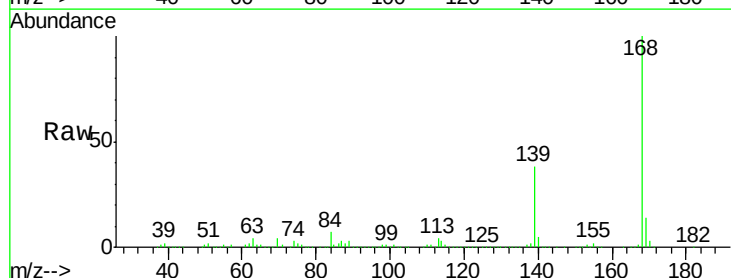
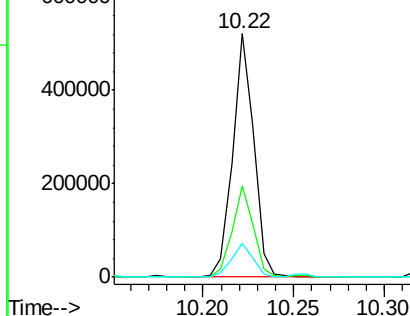
Delta R.T. -0.01 min

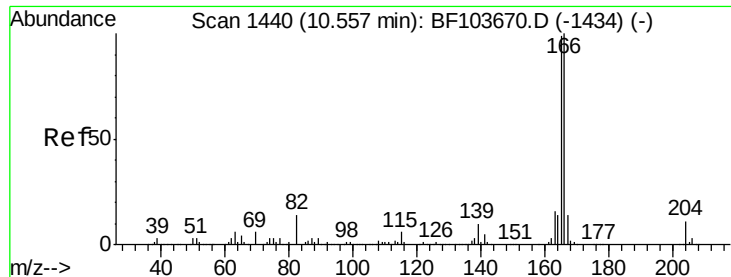
Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Tgt Ion:	168	Resp:	418587
Ion	Ratio	Lower	Upper
168	100		
139	37.6	30.1	45.1
169	13.7	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





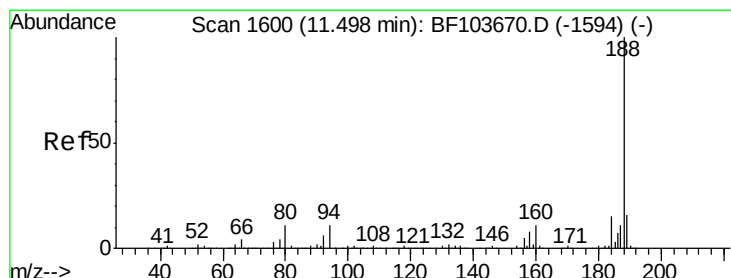
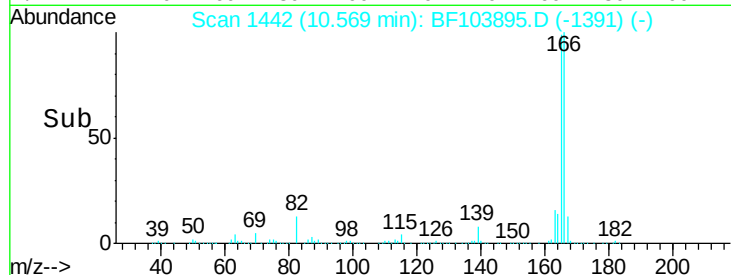
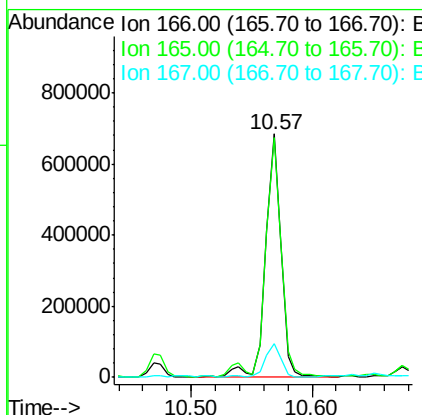
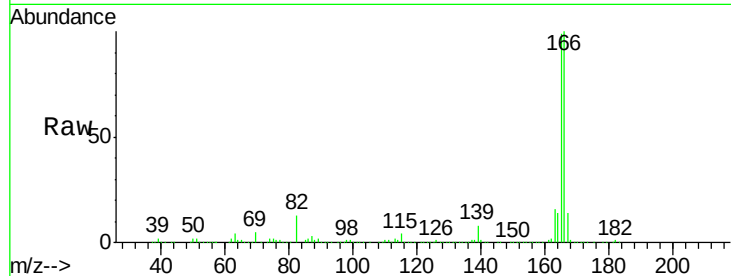
#57
Fluorene
 Concen: 41.809 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. -0.00 min
 Lab File: BF103895.D
 Acq: 23 Mar 2018 22:45

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.8	119.8
167	13.7	10.6	16.0

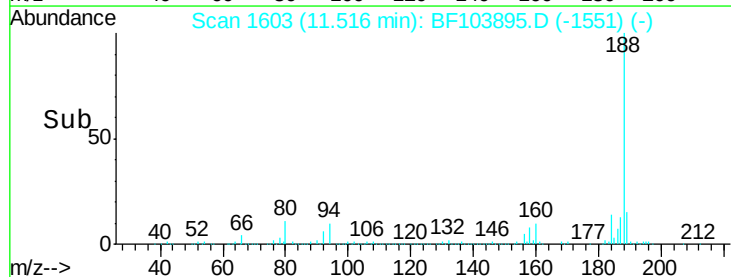
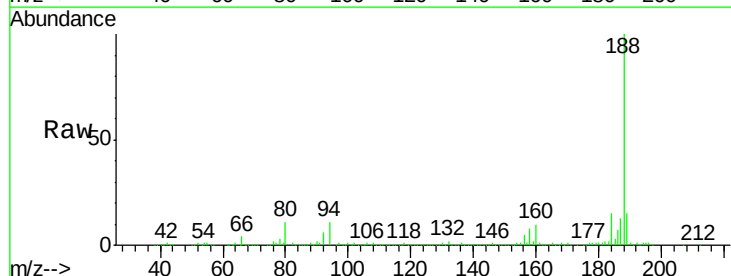
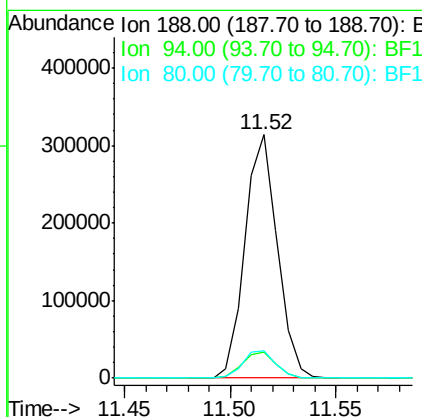
Manual Integrations
 APPROVED

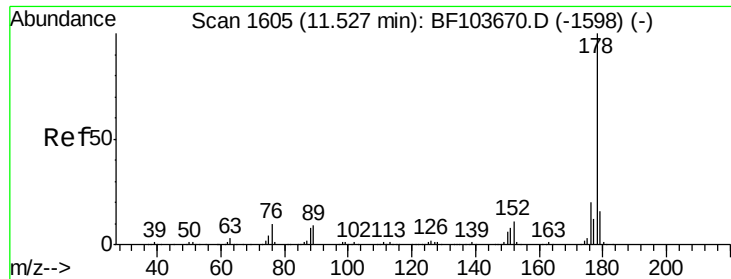
Sohil
 3/26/2018 4:33:30 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. 0.01 min
 Lab File: BF103895.D
 Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.5	12.7
80	11.4	9.2	13.8





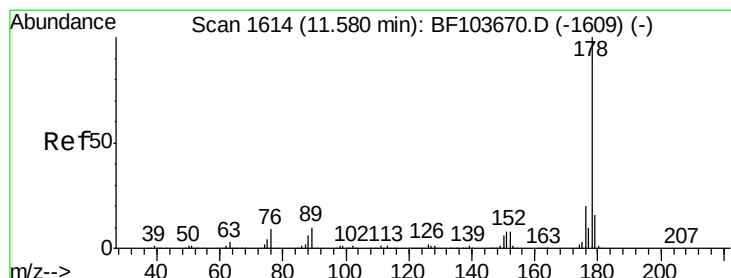
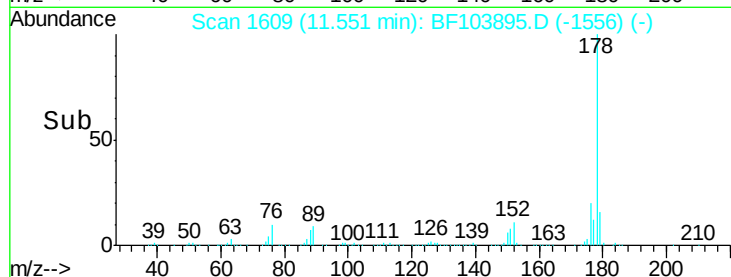
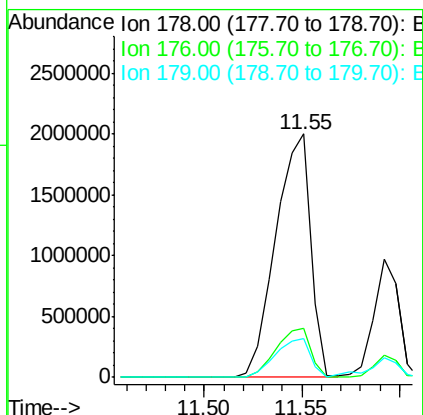
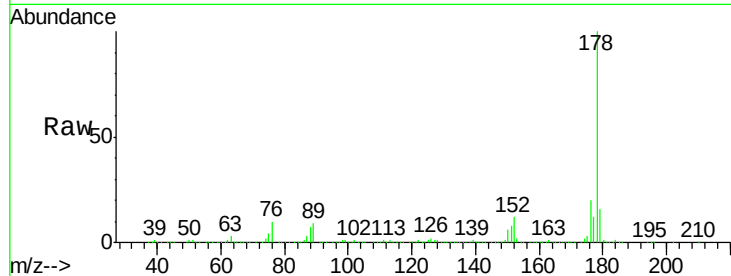
#70
Phenanthrene
Concen: 135.412 ng
RT: 11.55 min Scan# 1609
Delta R.T. 0.01 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4

Tot Ion:178 Resp: 2471057
Ion Ratio Lower Upper
178 100
176 20.3 15.8 23.8
179 16.0 13.0 19.6

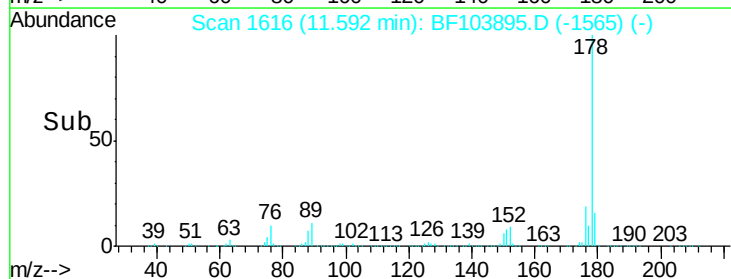
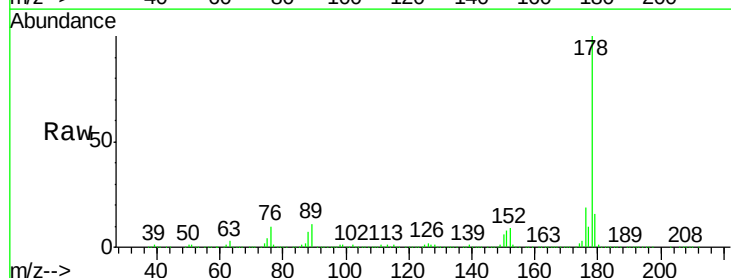
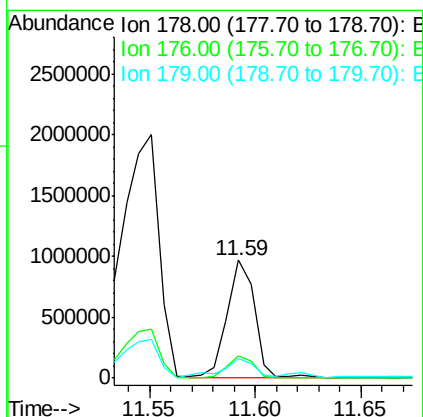
Manual Integrations
APPROVED

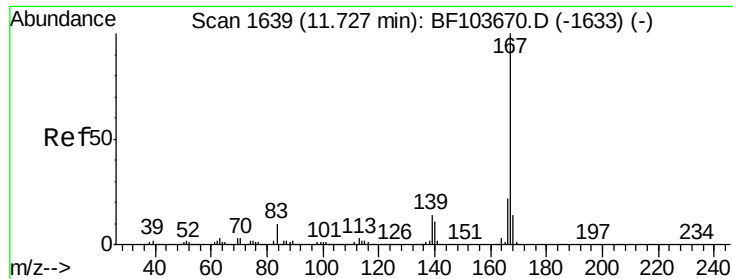
Sohil
3/26/2018 4:33:30 PM



#71
Anthracene
Concen: 46.331 ng
RT: 11.59 min Scan# 1616
Delta R.T. -0.00 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Tgt Ion:178 Resp: 858709
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 16.1 12.6 19.0





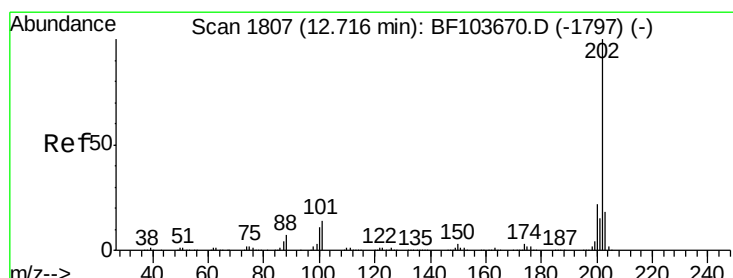
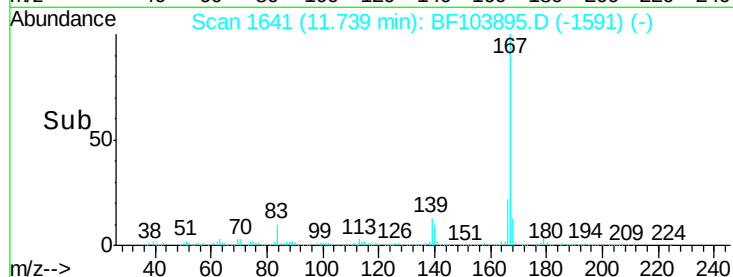
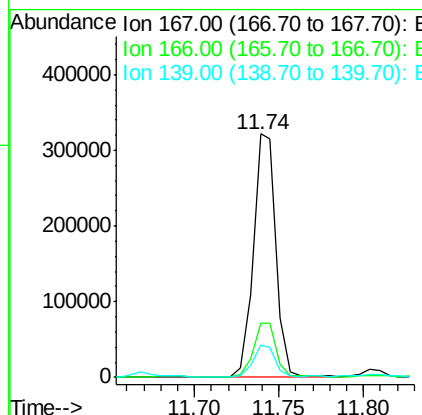
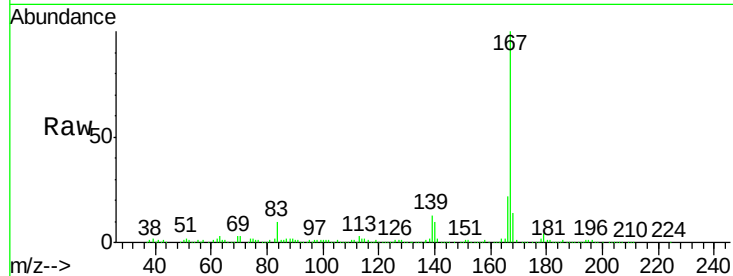
#72
 Carbazole
 Concen: 16.639 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. -0.01 min
 Lab File: BF103895.D
 Acq: 23 Mar 2018 22:45

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.6	26.4
139	13.4	10.9	16.3

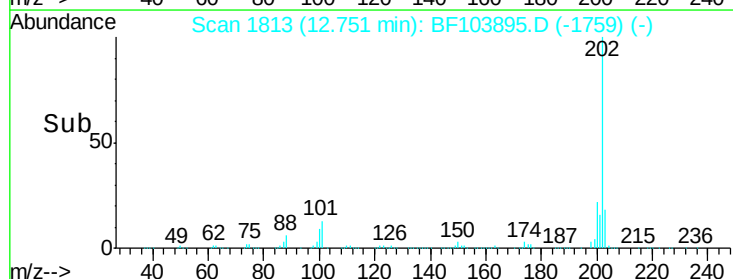
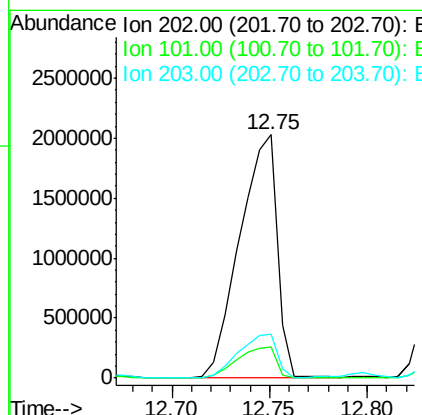
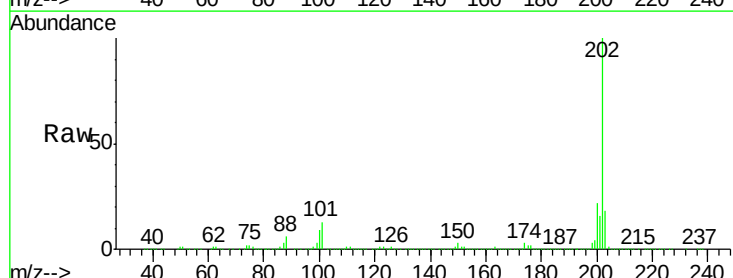
Manual Integrations
 APPROVED

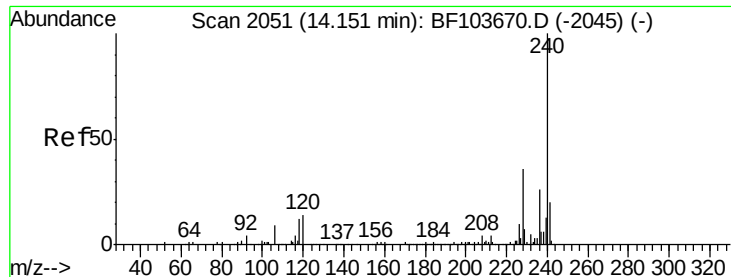
Sohil
 3/26/2018 4:33:30 PM



#74
 Fluoranthene
 Concen: 143.595 ng
 RT: 12.75 min Scan# 1813
 Delta R.T. 0.02 min
 Lab File: BF103895.D
 Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2055

Delta R.T. 0.01 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Instrument :

BNA_F

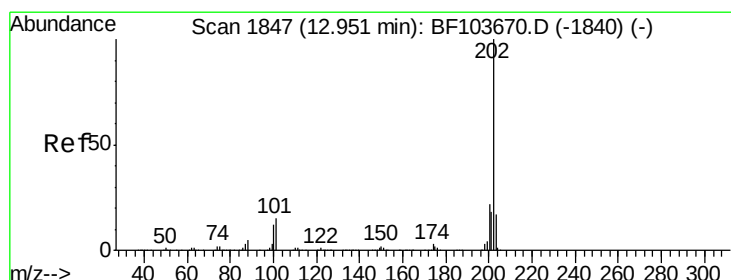
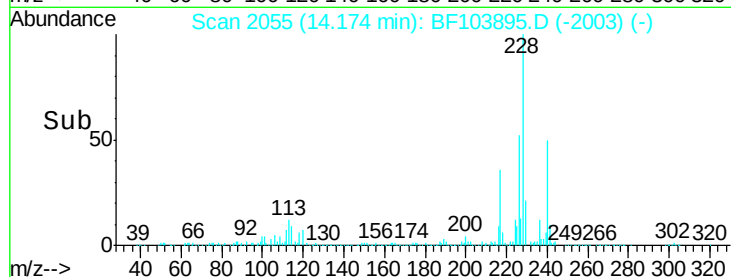
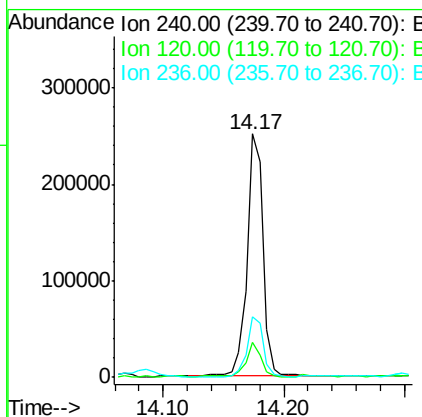
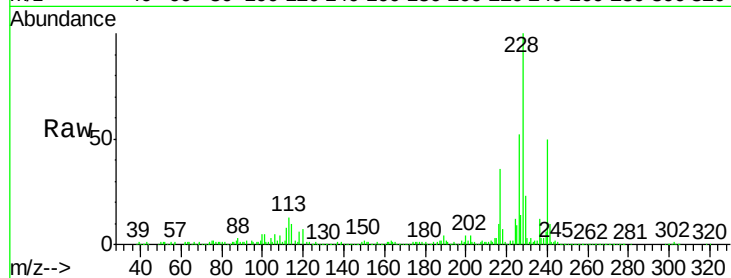
ClientSampleId :

A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.4	9.5	14.3#
236	25.0	20.7	31.1

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:30 PM



#77

Pyrene

Concen: 151.355 ng

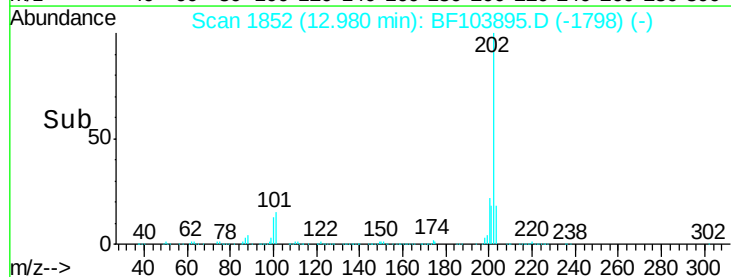
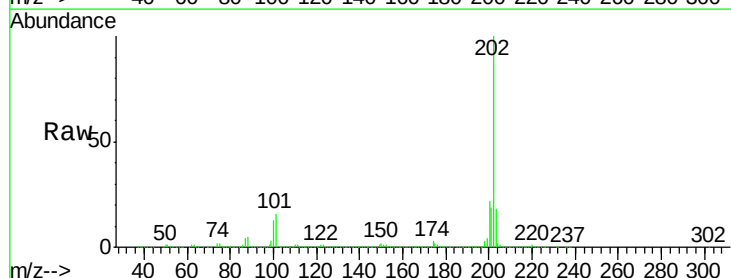
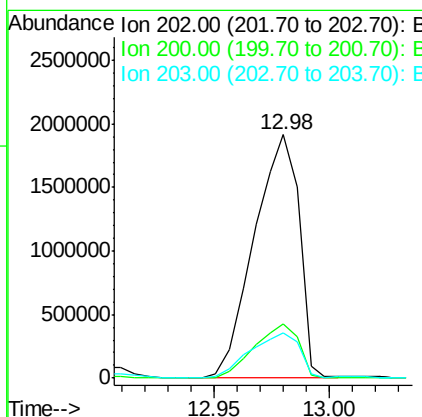
RT: 12.98 min Scan# 1852

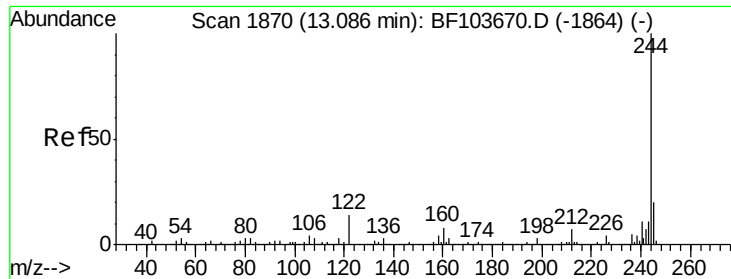
Delta R.T. 0.02 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.4	26.2
203	18.4	14.3	21.5





#78

Terphenyl-d14

Concen: 21.249 ng

RT: 13.10 min Scan# 1872

Delta R.T. -0.00 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Instrument :

BNA_F

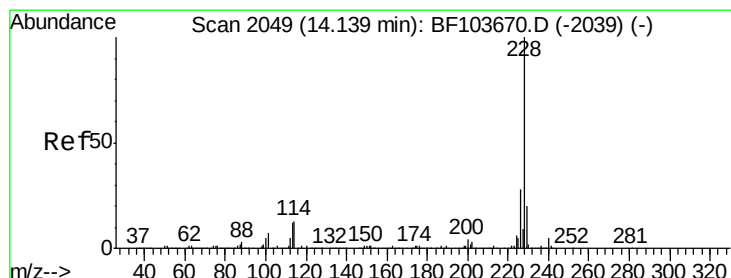
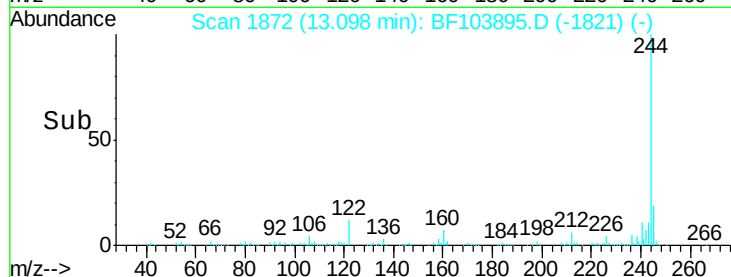
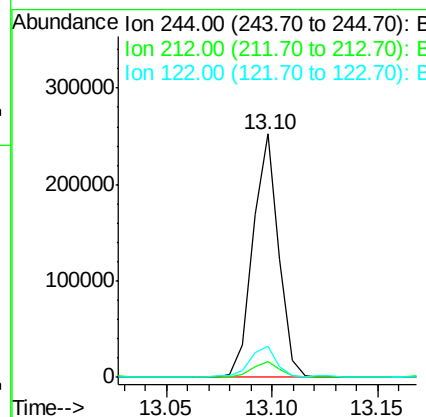
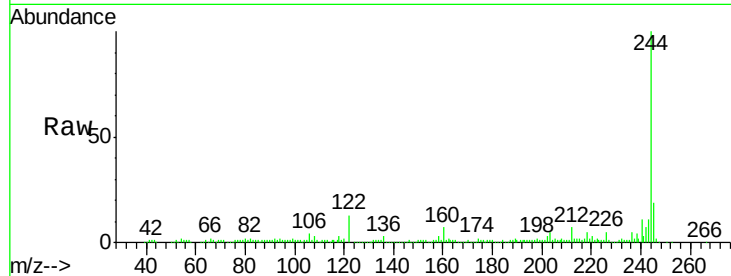
ClientSampleId :

A2_SB43_SE_4

Tot Ion:	244	Resp:	212437
Ion Ratio	Lower	Upper	
244	100		
212	6.6	5.4	8.0
122	12.5	11.0	16.4

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:30 PM



#80

Benzo(a)anthracene

Concen: 88.714 ng m

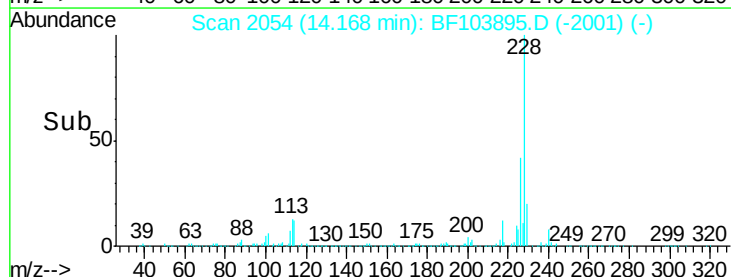
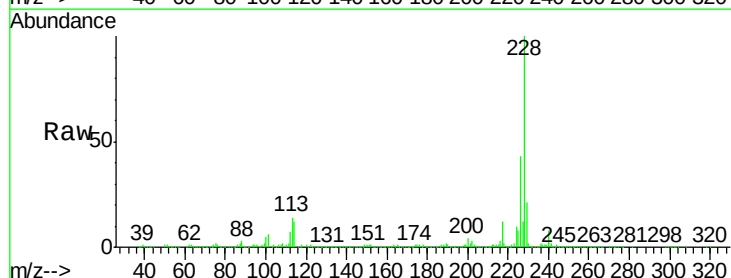
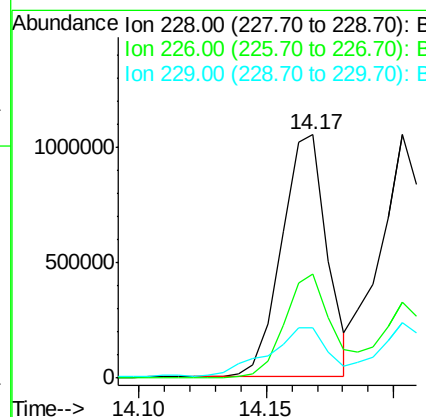
RT: 14.17 min Scan# 2054

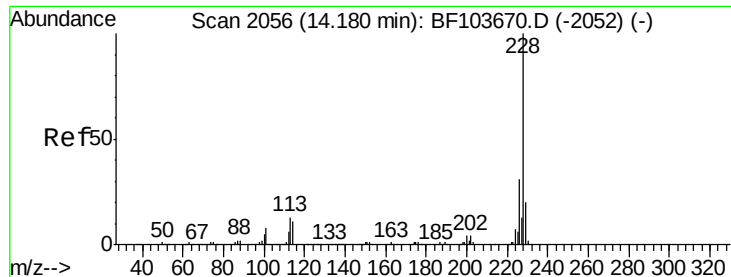
Delta R.T. 0.01 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Tgt Ion:	228	Resp:	1303161
Ion Ratio	Lower	Upper	
228	100		
226	42.8	22.6	33.8#
229	20.8	15.8	23.6





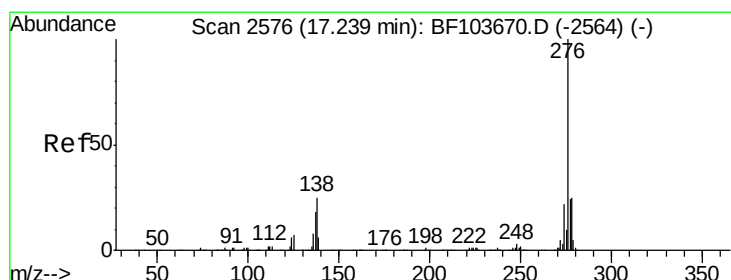
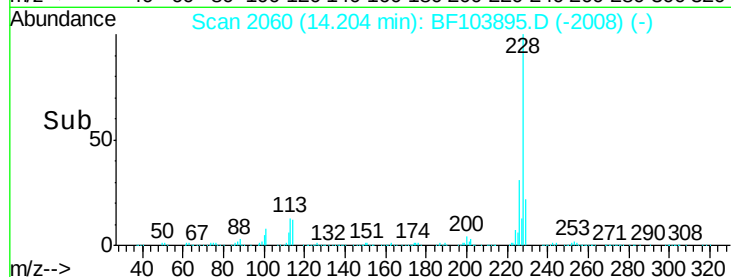
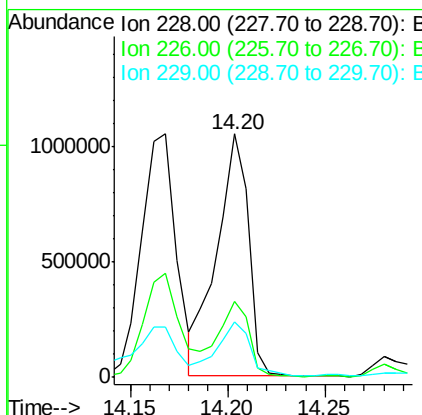
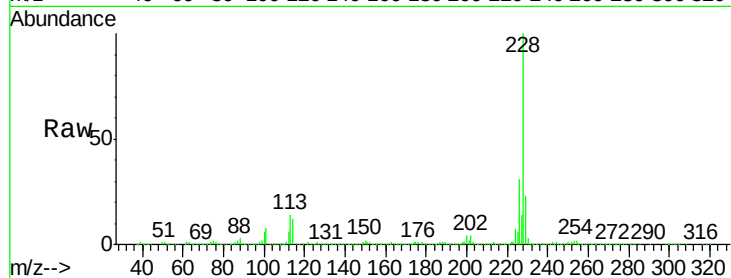
#82
Chrysene
Concen: 85.199 ng
RT: 14.20 min Scan# 2060
Delta R.T. 0.01 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.0	37.6
229	23.0	16.2	24.4

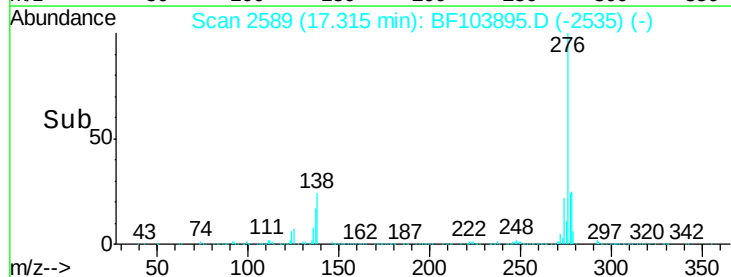
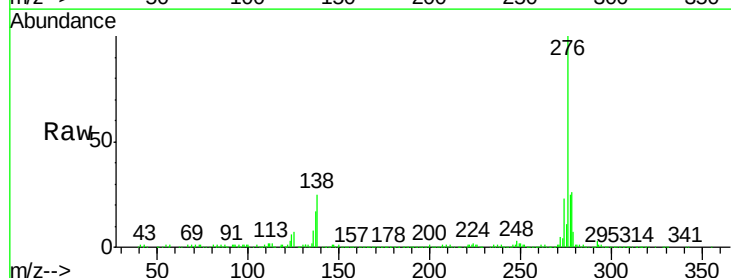
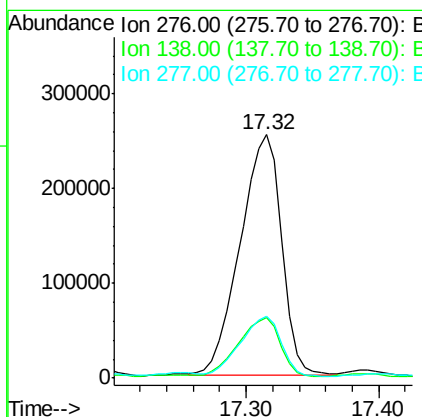
Manual Integrations
APPROVED

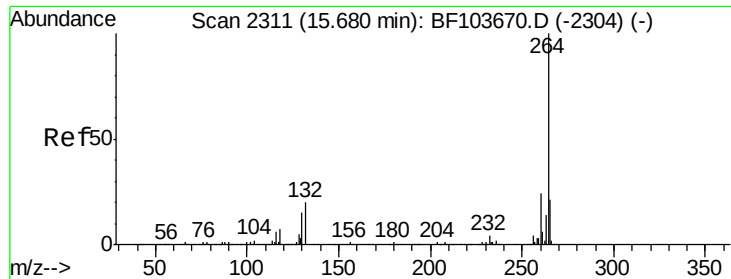
Sohil
3/26/2018 4:33:30 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 45.210 ng m
RT: 17.32 min Scan# 2589
Delta R.T. 0.02 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.4	25.0	37.6#
277	5.4	20.1	30.1#





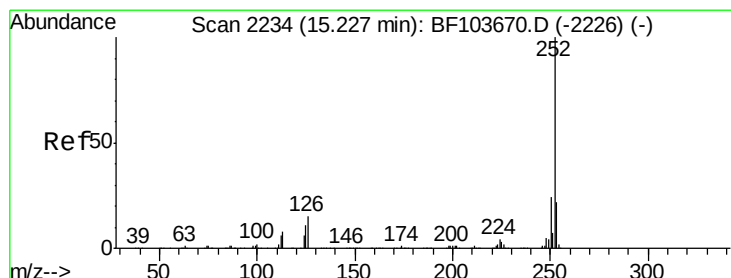
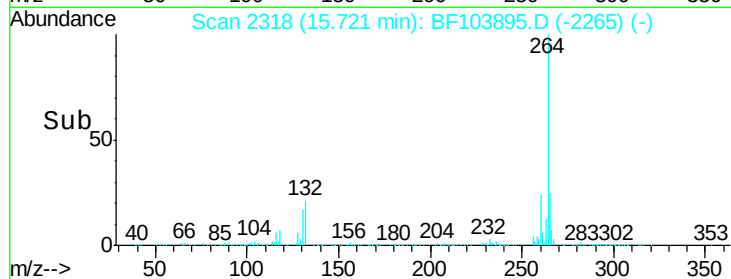
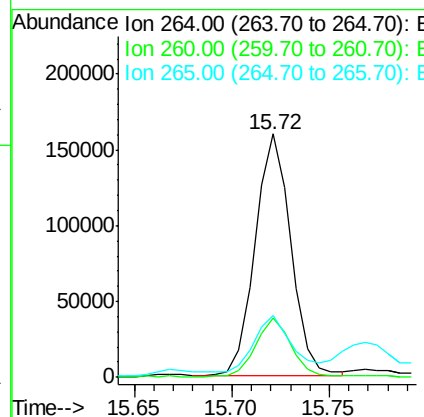
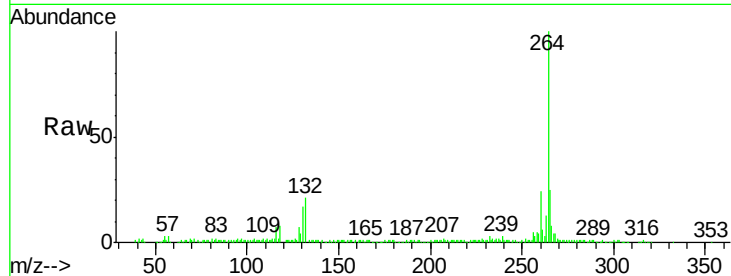
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2318
Delta R.T. 0.01 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	25.4	17.5	26.3

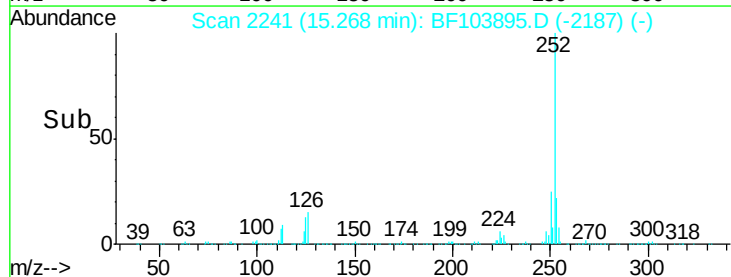
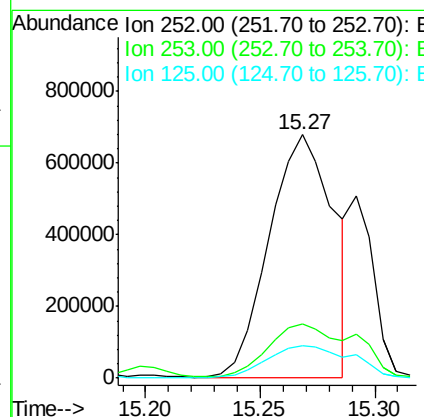
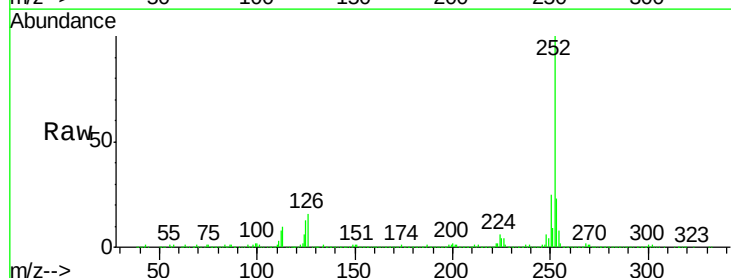
Manual Integrations
APPROVED

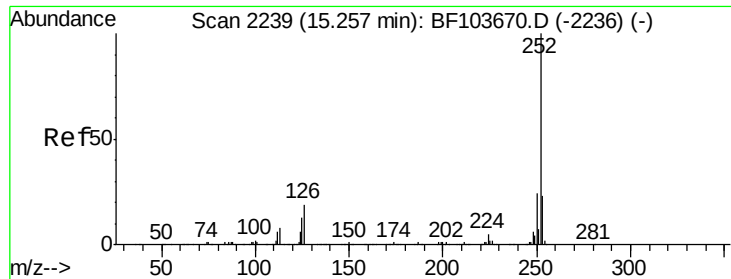
Sohil
3/26/2018 4:33:30 PM



#87
Benzo(b)fluoranthene
Concen: 103.608 ng m
RT: 15.27 min Scan# 2241
Delta R.T. 0.02 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	13.5	9.0	13.6





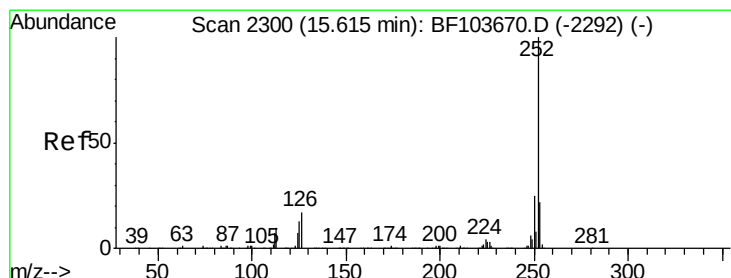
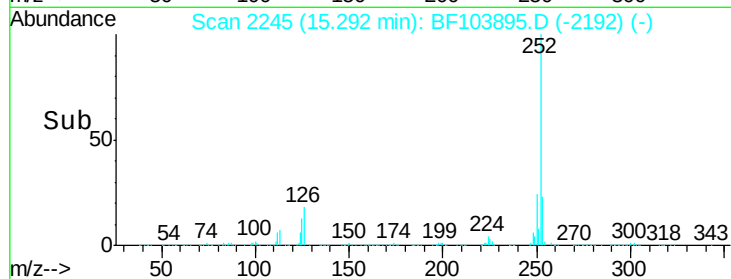
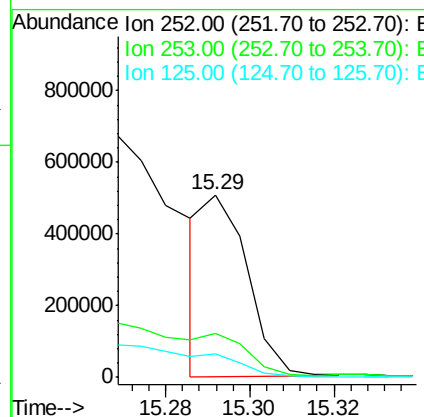
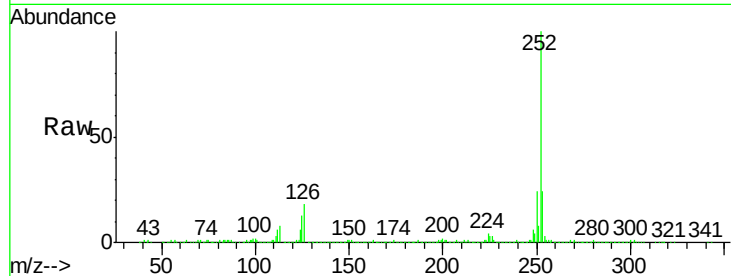
#88
Benzo(k)fluoranthene
Concen: 29.576 ng m
RT: 15.29 min Scan# 2245
Delta R.T. 0.01 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	12.8	10.2	15.2

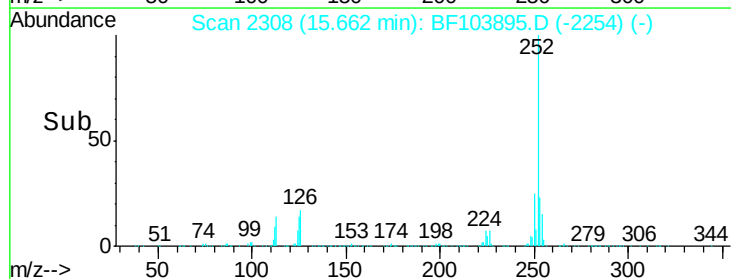
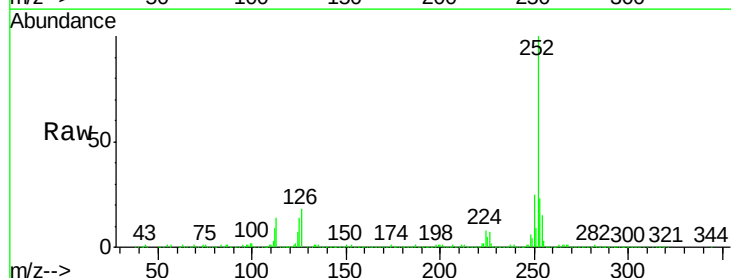
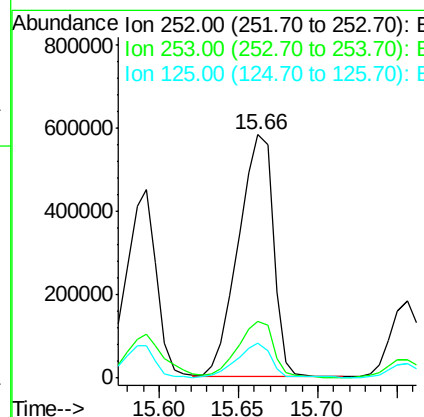
Manual Integrations
APPROVED

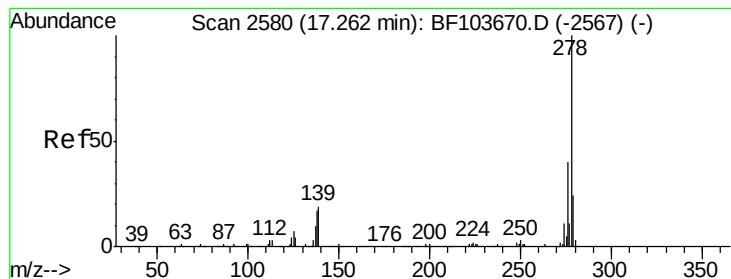
Sohil
3/26/2018 4:33:30 PM



#89
Benzo(a)pyrene
Concen: 76.983 ng
RT: 15.66 min Scan# 2308
Delta R.T. 0.02 min
Lab File: BF103895.D
Acq: 23 Mar 2018 22:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	14.2	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 13.204 ng

RT: 17.32 min Scan# 2590

Delta R.T. 0.01 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Instrument :

BNA_F

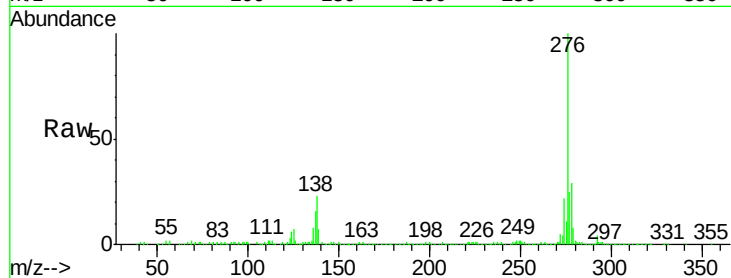
ClientSampleId :

A2_SB43_SE_4

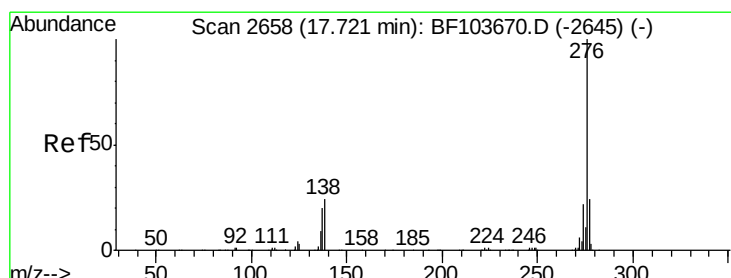
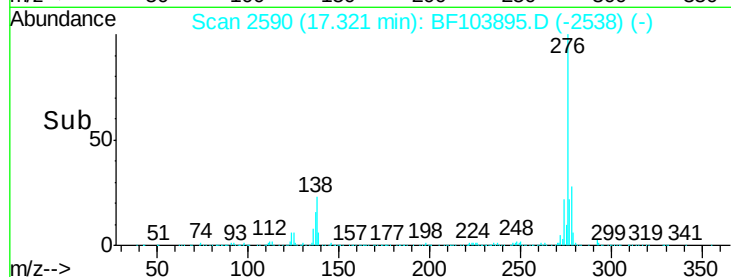
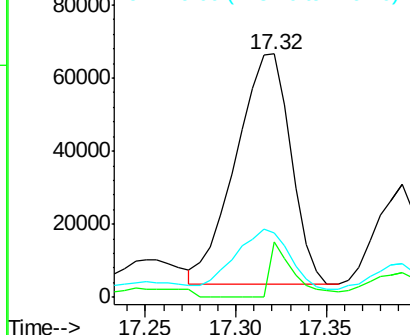
Tot Ion:	278	Resp:	132863
Ion Ratio	Lower	Upper	
278	100		
139	22.8	15.9	23.9
279	26.6	19.0	28.4

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:30 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 55.013 ng

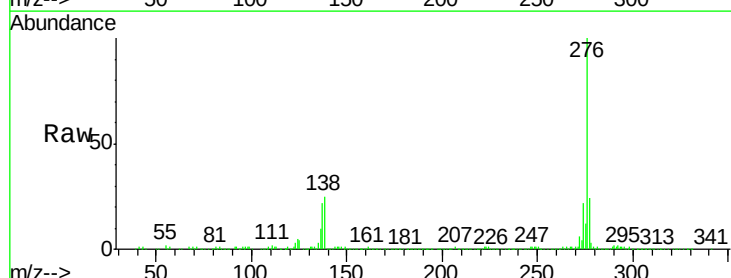
RT: 17.80 min Scan# 2672

Delta R.T. 0.02 min

Lab File: BF103895.D

Acq: 23 Mar 2018 22:45

Tgt Ion:	276	Resp:	538529
Ion Ratio	Lower	Upper	
276	100		
277	24.1	17.9	26.9
138	25.5	21.8	32.8



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

