

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF022018\
 Data File : BF103118.D
 Acq On : 20 Feb 2018 11:54
 Operator : SJ/JU
 Sample : J1600-01DL 100X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB69 BOT-N 10.5DL

Manual Integrations
 APPROVED

Sohil
 2/21/2018 10:10:29 AM

Quant Time: Feb 20 16:02:52 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 16 14:34:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	158031	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	672420	20.00	ng	0.00
38) Acenaphthene-d10	9.91	164	307249	20.00	ng	-0.01
63) Phenanthrene-d10	11.40	188	521430	20.00	ng	0.00
75) Chrysene-d12	14.05	240	315120	20.00	ng	0.00
86) Perylene-d12	15.54	264	304721	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	10091	0.97	ng	0.00
7) Phenol-d6	6.51	99	13420	1.07	ng	0.00
23) Nitrobenzene-d5	7.44	82	7677	0.79	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	2171	0.88	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	12511	0.68	ng	0.00
78) Terphenyl-d14	12.98	244	11675	0.88	ng	-0.01
Target Compounds						
31) Naphthalene	8.18	128	492476	14.990	ng	99
48) Acenaphthylene	9.77	152	136171	4.303	ng	100
51) Acenaphthene	9.95	154	74354	3.929	ng	96
54) Dibenzofuran	10.12	168	78725	2.952	ng	94
57) Fluorene	10.46	166	177486	9.147	ng	98
70) Phenanthrene	11.43	178	996599	34.318	ng	99
71) Anthracene	11.48	178	278597	9.432	ng	99
74) Fluoranthene	12.62	202	1174190	40.187	ng	98
77) Pyrene	12.85	202	912036	36.909	ng	99
80) Benzo(a)anthracene	14.04	228	450608m	22.737	ng	
82) Chrysene	14.07	228	317313	15.883	ng	97
85) Indeno(1,2,3-cd)pyrene	17.04	276	162917	9.833	ng	96
87) Benzo(b)fluoranthene	15.10	252	375506m	19.007	ng	
88) Benzo(k)fluoranthene	15.13	252	144597m	7.660	ng	
89) Benzo(a)pyrene	15.48	252	279823	15.735	ng	97
90) Dibenzo(a,h)anthracene	16.85	278	32704	2.266	ng	94
91) Benzo(a,h,i)perylene	17.50	276	141476	10.014	ng	99

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

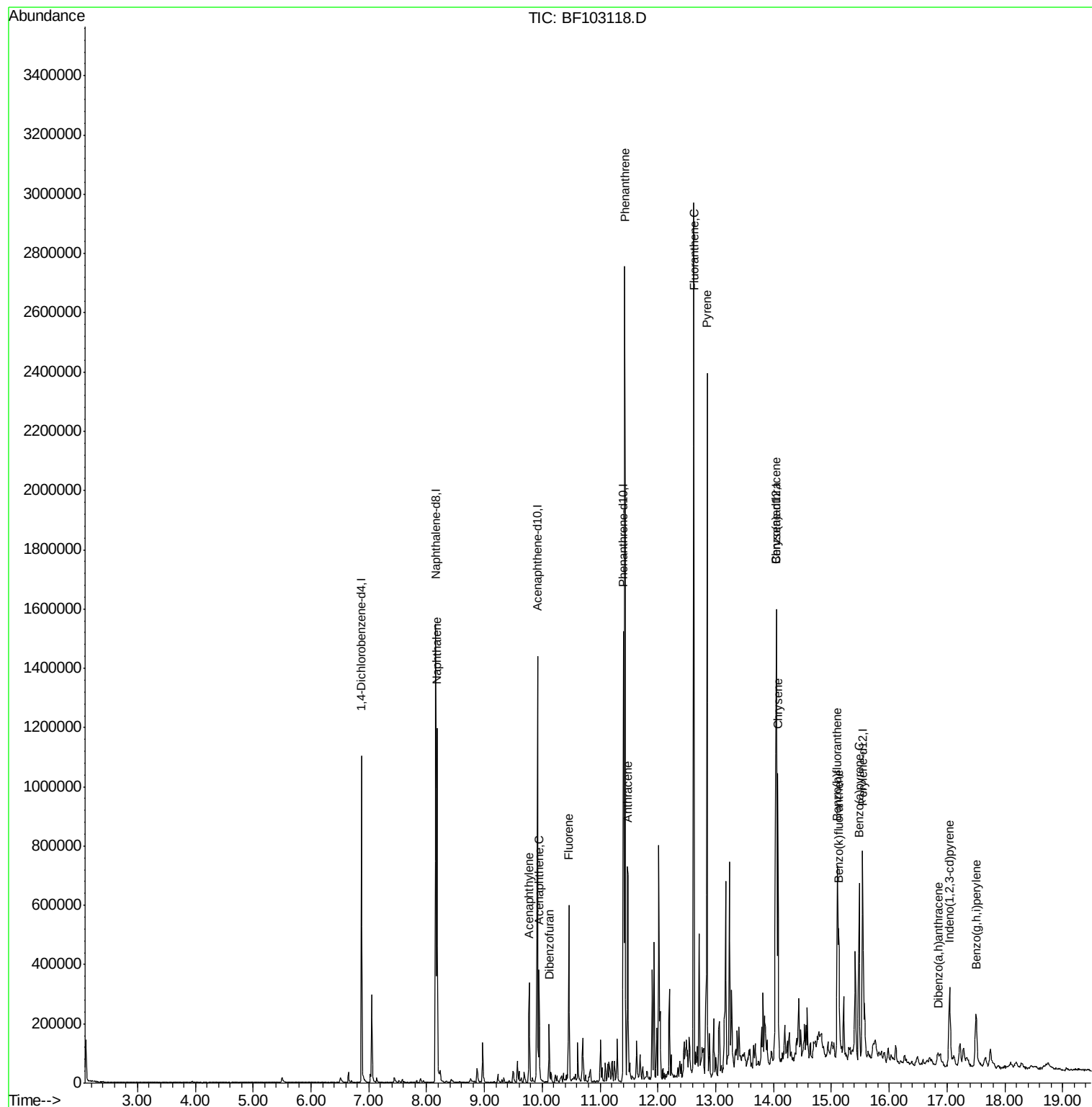
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF022018\
Data File : BF103118.D
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ALS Vial : 8 Sample Multiplier: 1

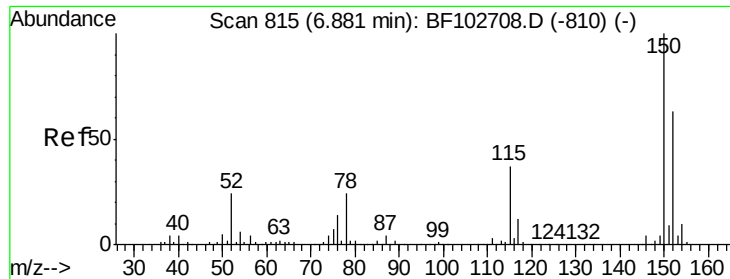
Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-N 10.5DL

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#1

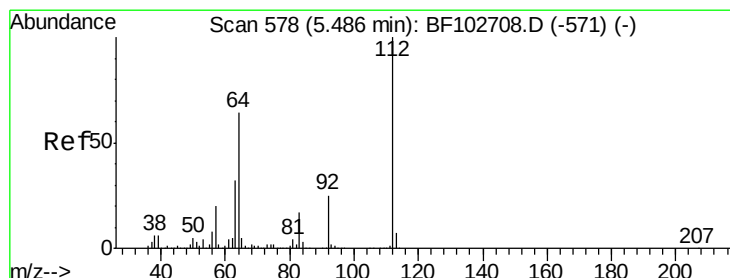
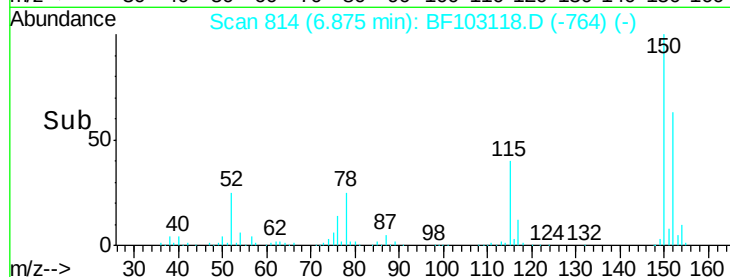
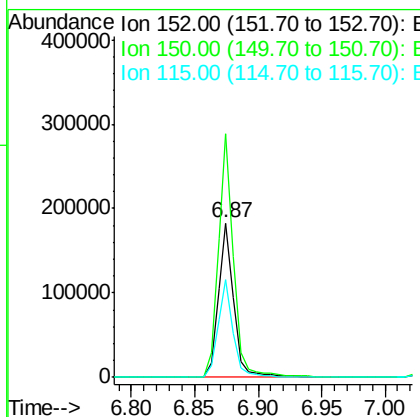
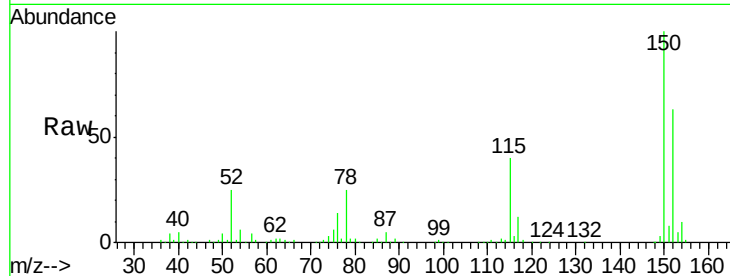
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.6	186.8
115	62.9	50.1	75.1

Manual Integrations
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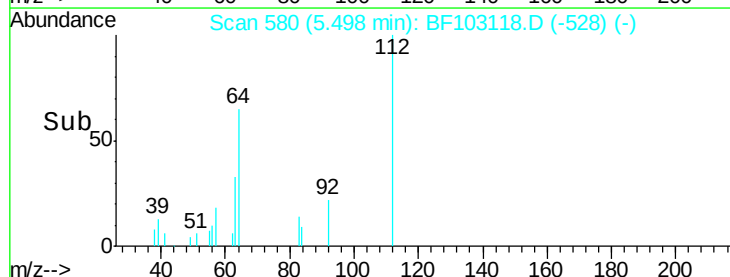
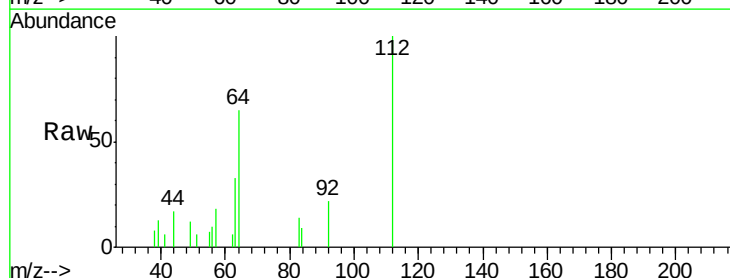
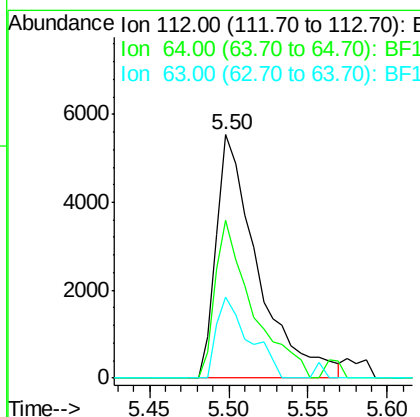
Sohil
2/21/2018 10:10:29 AM

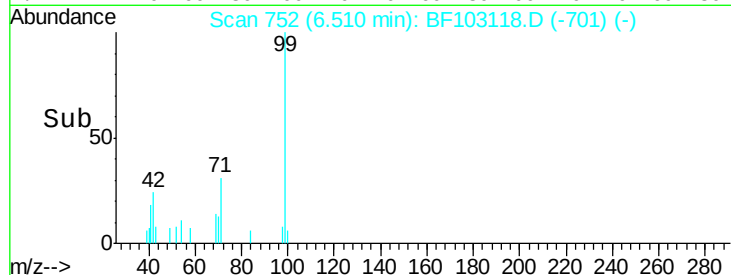
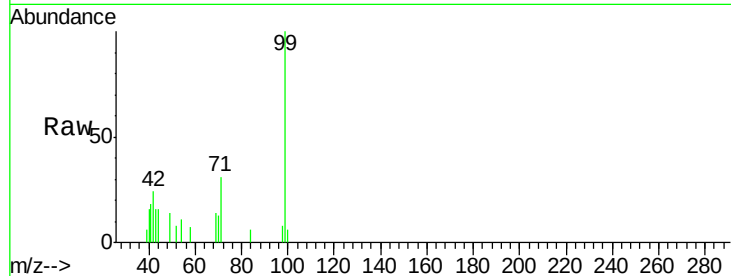
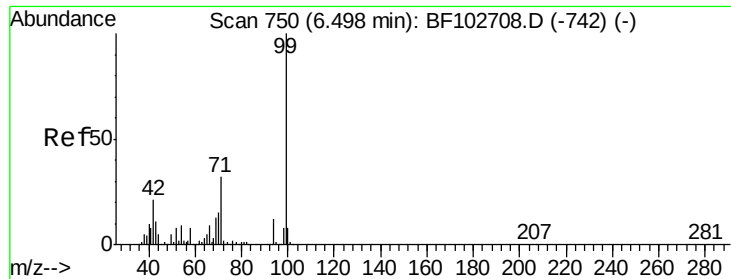


#5

2-Fluorophenol
Concen: 0.970 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.9	47.9	71.9
63	33.3	23.7	35.5





#7

Phenol-d6

Concen: 1.071 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF103118.D

Acq: 20 Feb 2018 11:54

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		13420		
42	23.7	14.5	21.7#		
71	31.3	25.4	38.0		

Instrument :

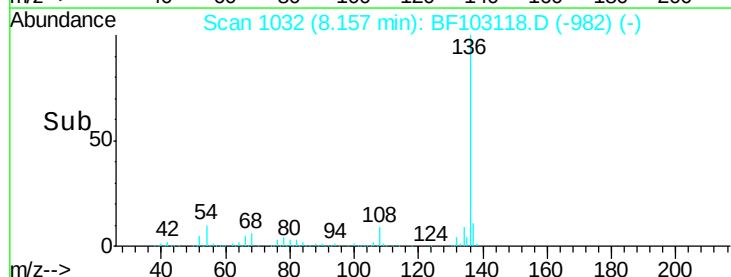
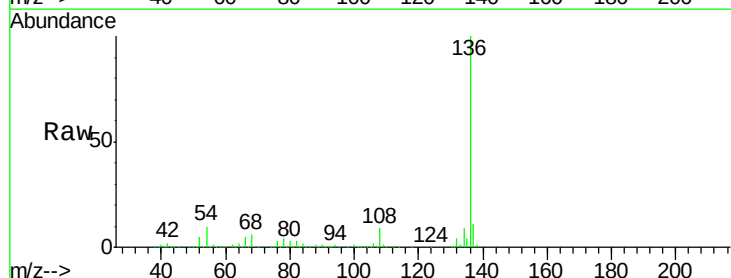
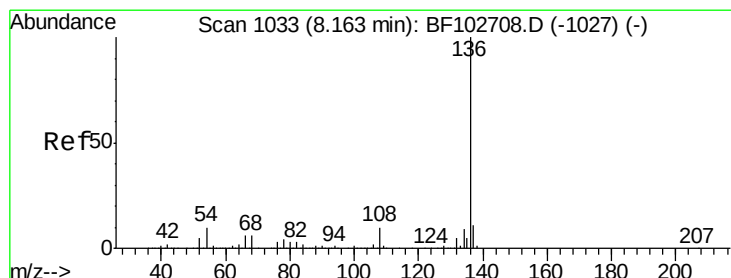
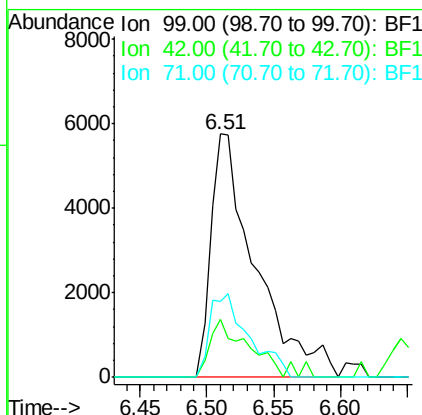
BNA_F

ClientSampleId :

A2 SB69 BOT-N 10.5DL

Manual Integrations
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#21

Naphthalene-d8

Concen: 20.000 ng

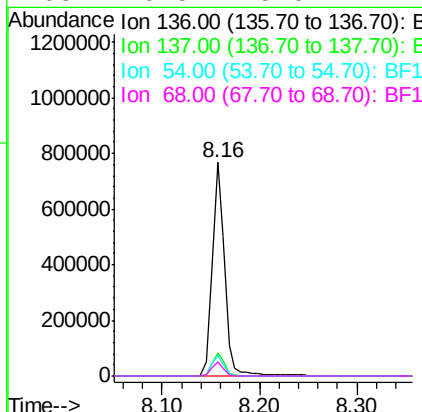
RT: 8.16 min Scan# 1032

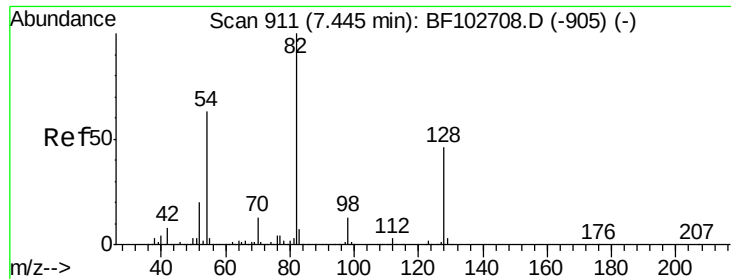
Delta R.T. -0.01 min

Lab File: BF103118.D

Acq: 20 Feb 2018 11:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		672420		
137	11.1	8.9	13.3		
54	9.6	6.6	9.8		
68	6.5	5.0	7.4		





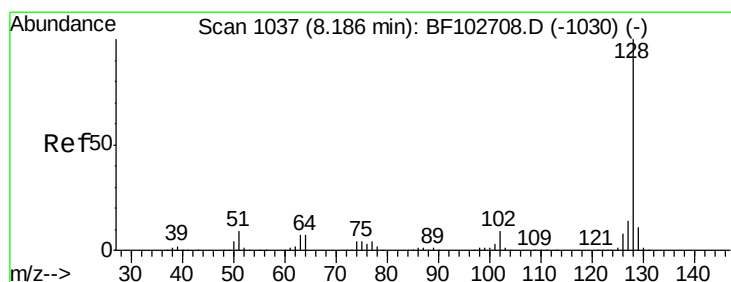
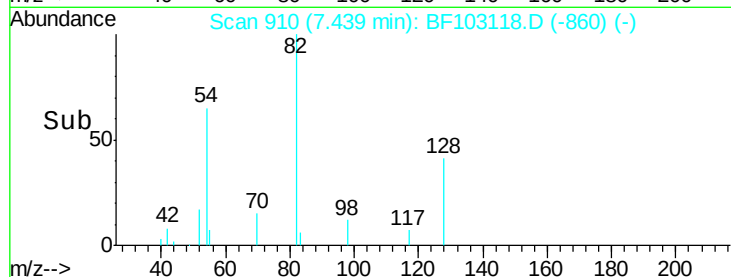
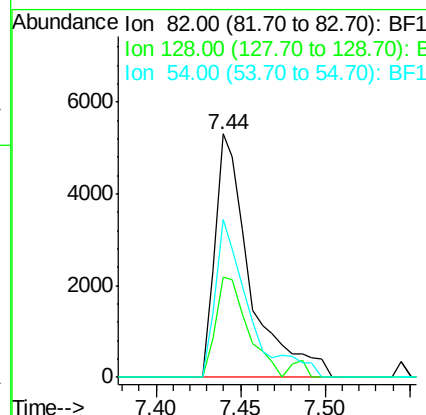
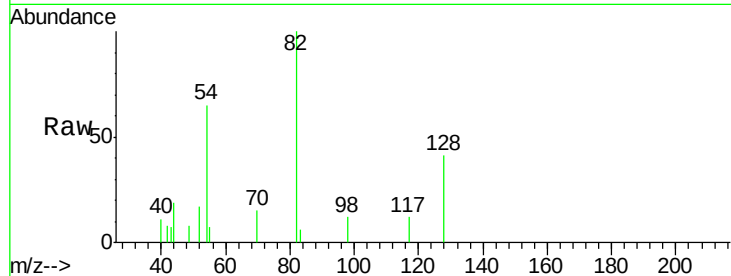
#23
Nitrobenzene-d5
Concen: 0.792 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

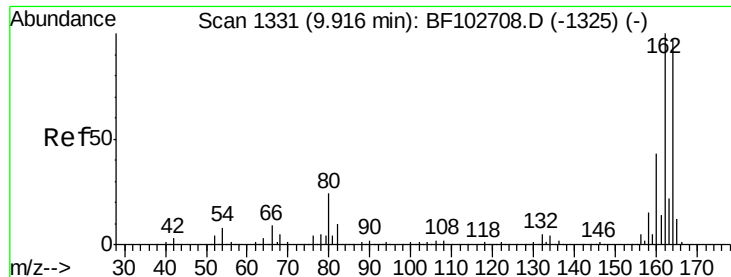
Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.3	36.1	54.1
54	65.0	41.4	62.2

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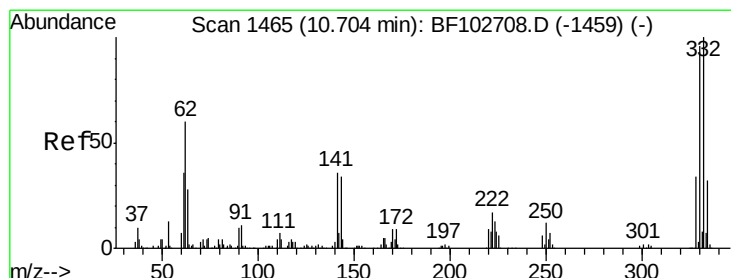
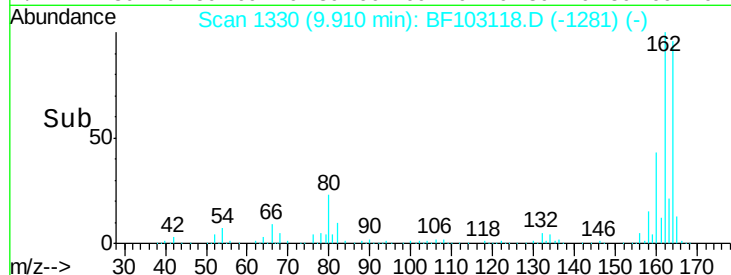
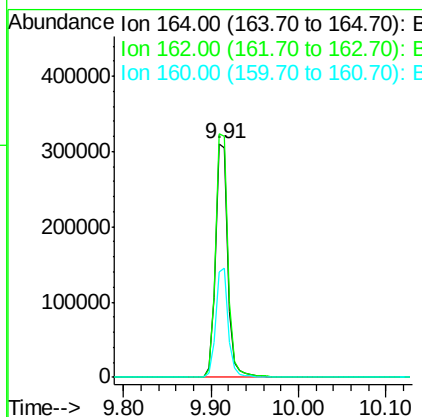
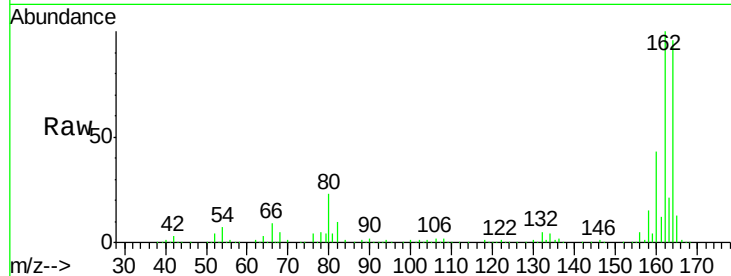
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.91 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: BF103118.D
 Acq: 20 Feb 2018 11:54

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.3	86.1	129.1
160	45.2	38.3	57.5

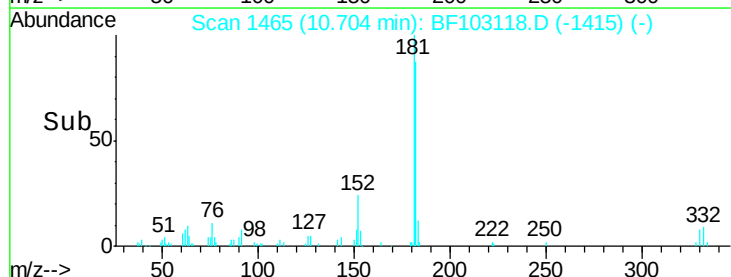
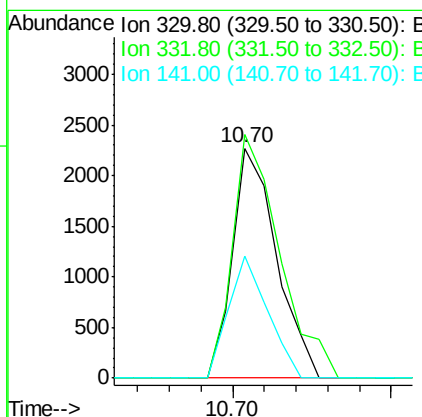
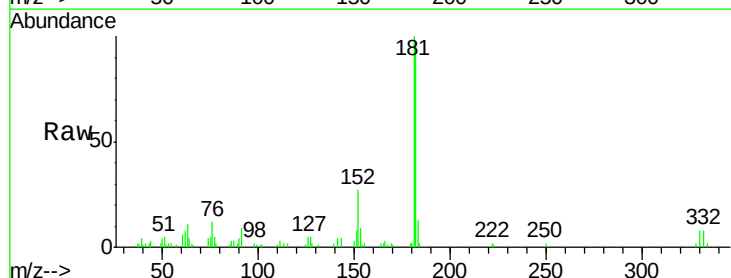
Manual Integrations
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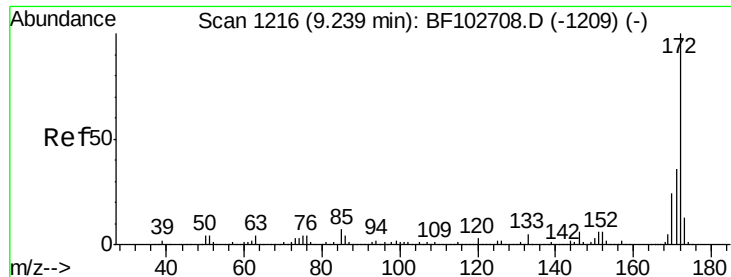
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#41
 2,4,6-Tribromophenol
 Concen: 0.878 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF103118.D
 Acq: 20 Feb 2018 11:54

Tgt Ion	Ratio	Lower	Upper
330	100		
332	113.9	77.0	115.6
141	47.2	29.9	44.9#





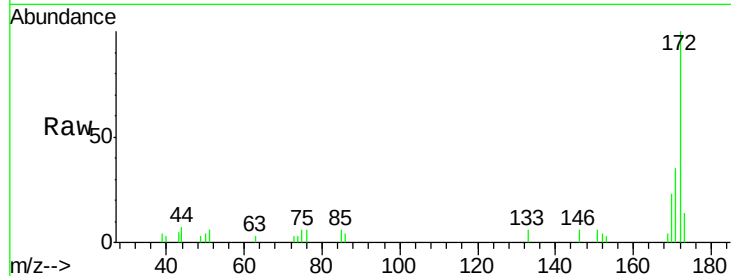
#44
2-Fluorobiphenyl
Concen: 0.676 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.7	44.5
170	22.6	19.6	29.4

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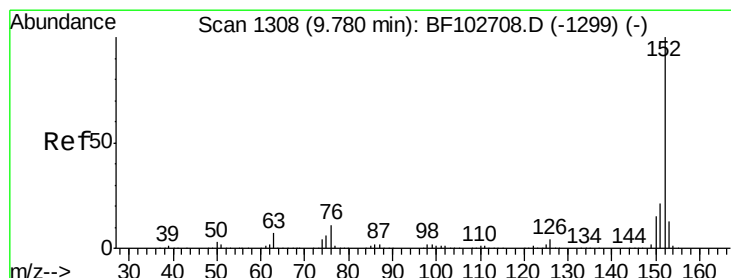
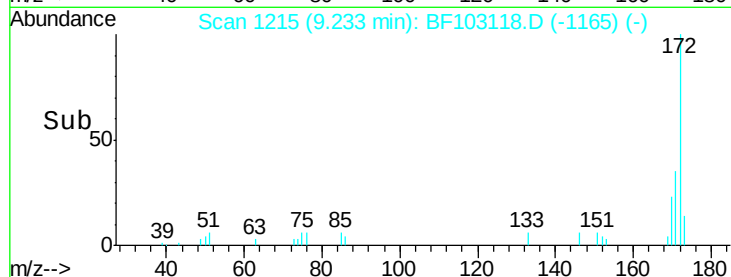
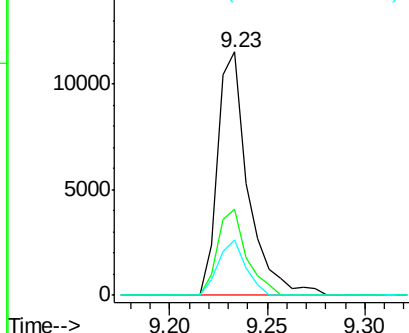


Abundance

Ion 172.00 (171.70 to 172.70): E

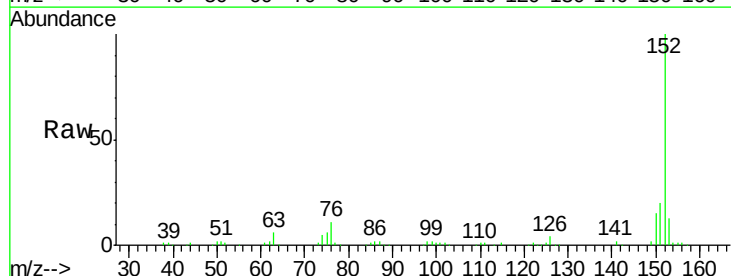
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#48
Acenaphthylene
Concen: 4.303 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

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

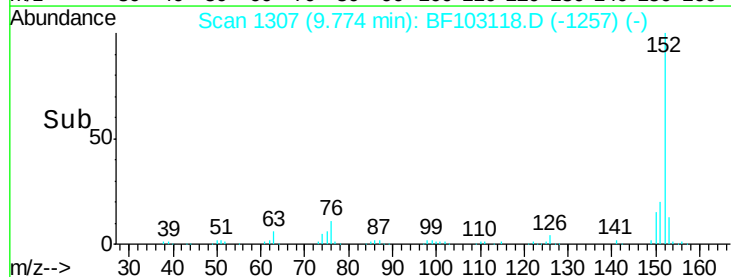
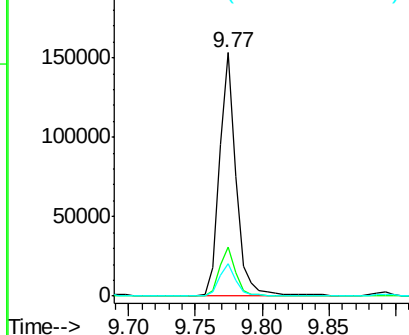


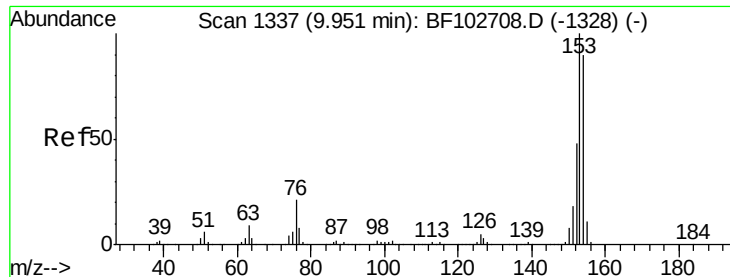
Abundance

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: 3.929 ng

RT: 9.95 min Scan# 1336

Delta R.T. -0.01 min

Lab File: BF103118.D

Acq: 20 Feb 2018 11:54

Instrument :

BNA_F

ClientSampleId :

A2 SB69 BOT-N 10.5DL

Tot Ion:154 Resp: 74354

Ion Ratio Lower Upper

154 100

153 117.3 91.2 136.8

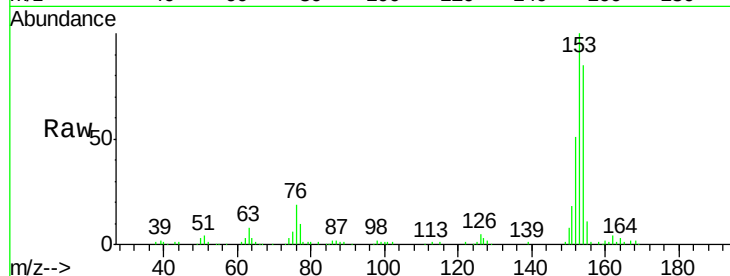
152 59.5 43.8 65.8

Manual Integrations

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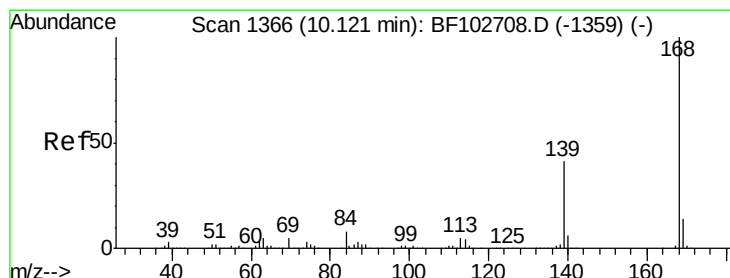
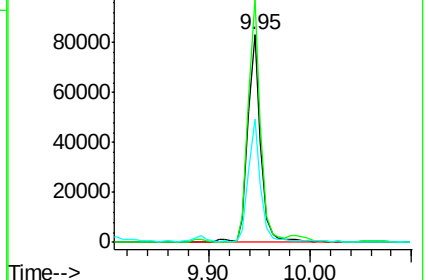
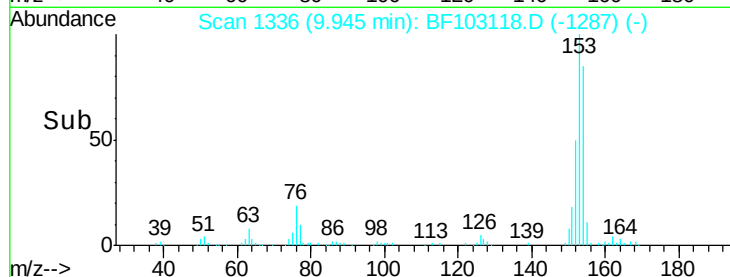
2/21/2018 10:10:29 AM



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: 2.952 ng

RT: 10.12 min Scan# 1365

Delta R.T. -0.01 min

Lab File: BF103118.D

Acq: 20 Feb 2018 11:54

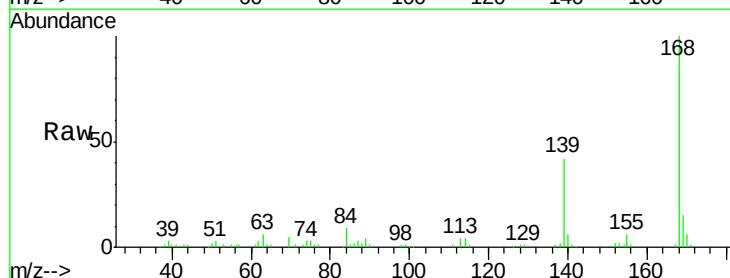
Tgt Ion:168 Resp: 78725

Ion Ratio Lower Upper

168 100

139 41.9 30.1 45.1

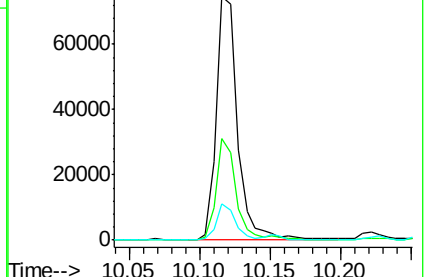
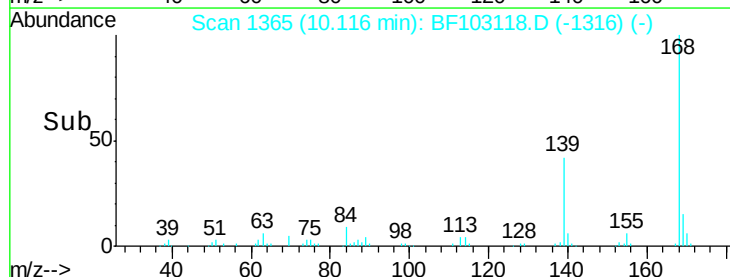
169 15.0 10.9 16.3

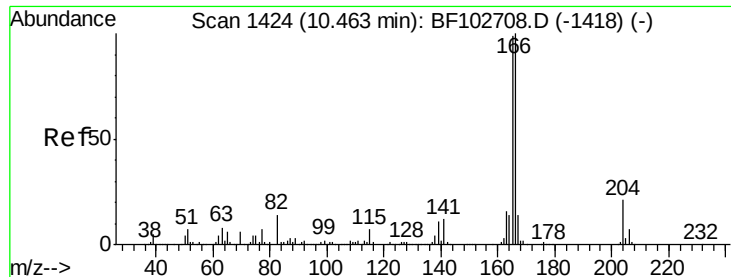


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





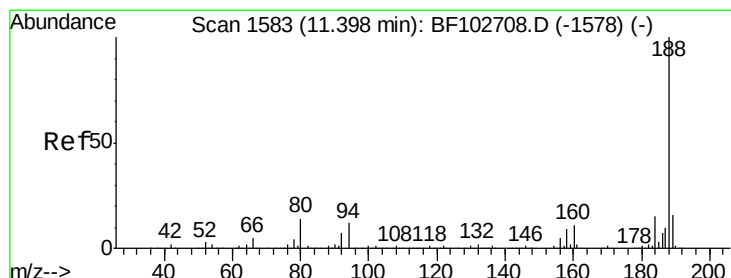
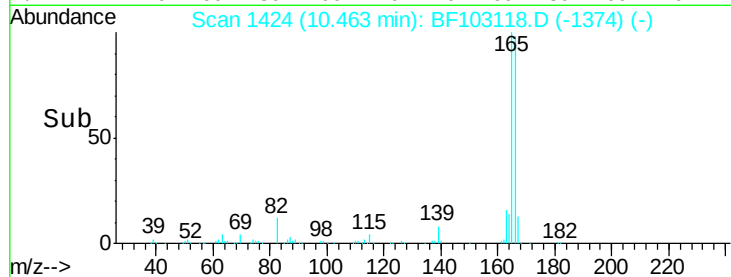
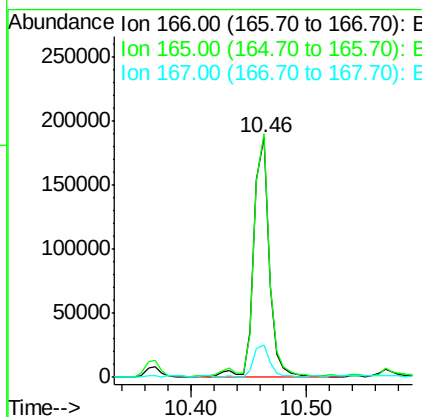
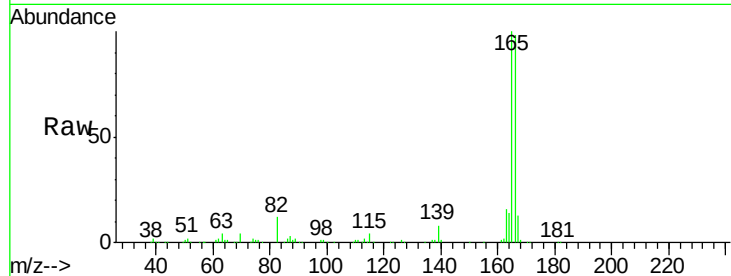
#57
Fluorene
 Concen: 9.147 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF103118.D
 Acq: 20 Feb 2018 11:54

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.6	79.8	119.8
167	13.5	10.6	16.0

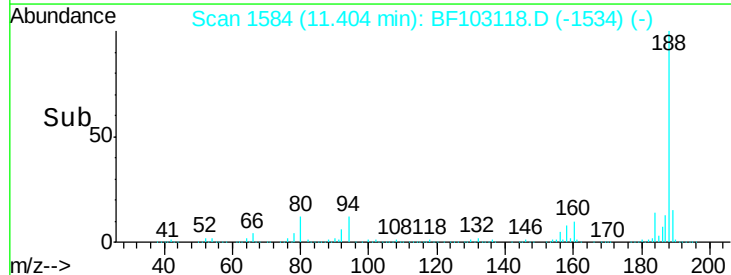
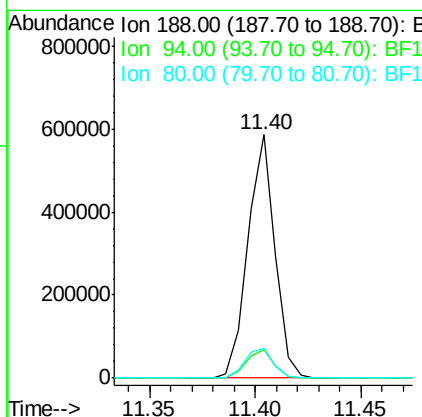
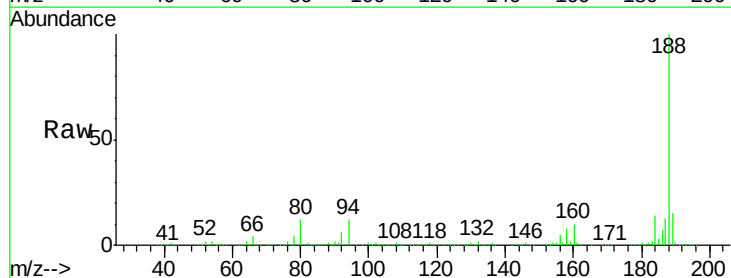
Manual Integrations
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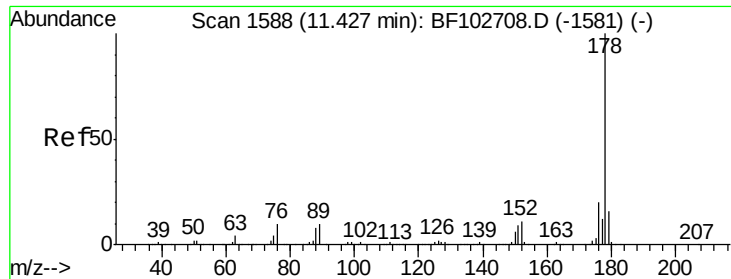
Sohil
 2/21/2018 10:10:29 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF103118.D
 Acq: 20 Feb 2018 11:54

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.5	8.5	12.7
80	12.5	9.2	13.8





#70

Phenanthrene

Concen: 34.318 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF103118.D

Acq: 20 Feb 2018 11:54

Instrument :

BNA_F

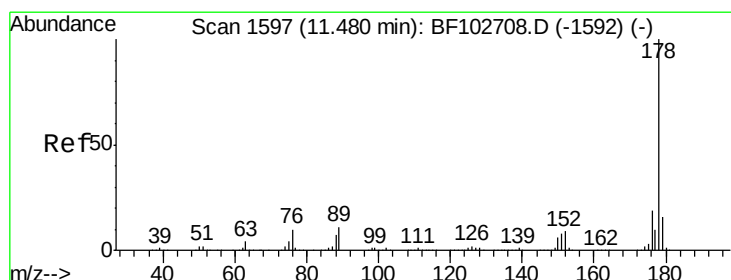
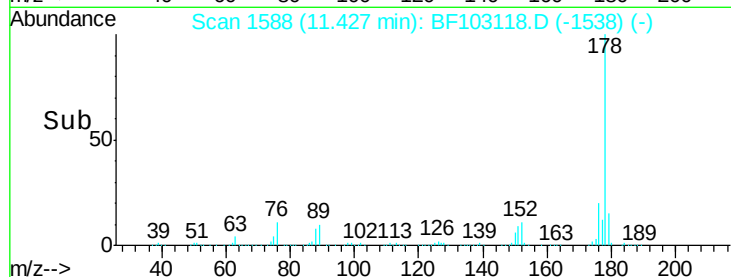
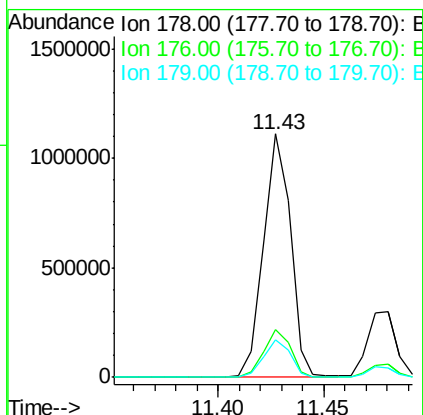
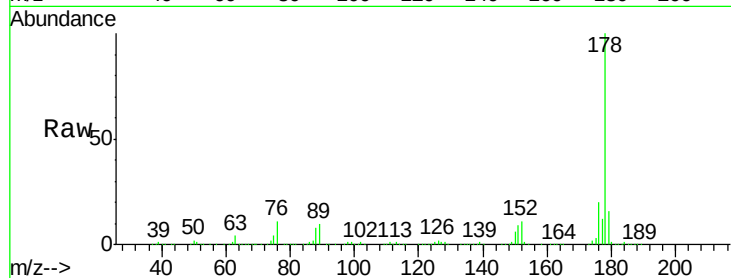
ClientSampleId :

A2 SB69 BOT-N 10.5DL

Tot Ion:	178	Resp:	996599
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.8	23.8
179	15.5	13.0	19.6

Manual Integrations
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Sohil
2/21/2018 10:10:29 AM



#71

Anthracene

Concen: 9.432 ng

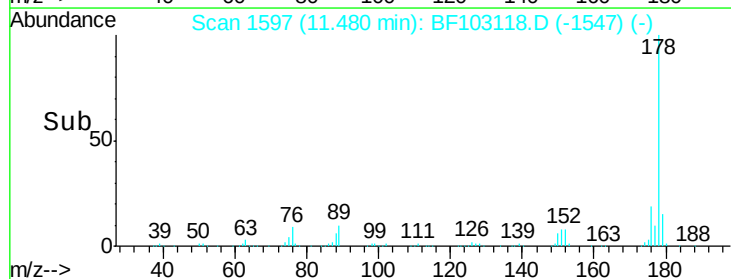
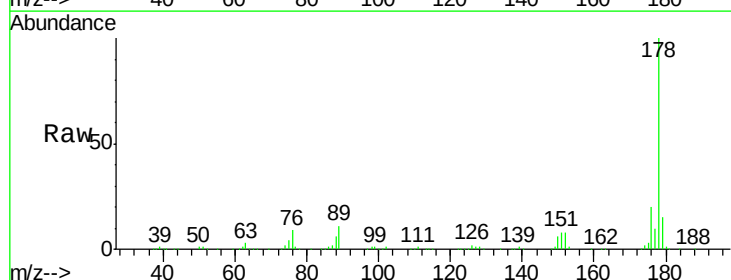
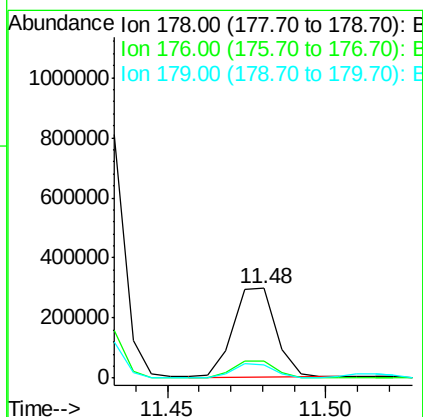
RT: 11.48 min Scan# 1597

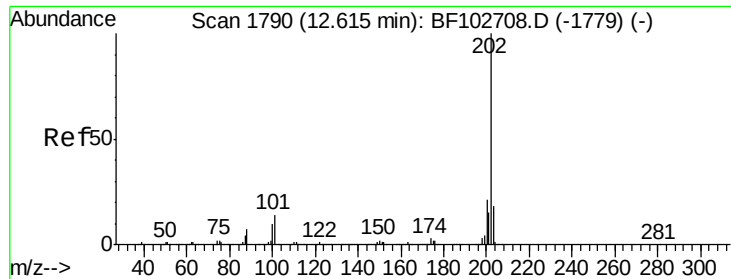
Delta R.T. -0.01 min

Lab File: BF103118.D

Acq: 20 Feb 2018 11:54

Tgt Ion:	178	Resp:	278597
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.4	23.2
179	15.2	12.6	19.0





#74

Fluoranthene

Concen: 40.187 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF103118.D

Acq: 20 Feb 2018 11:54

Instrument :

BNA_F

ClientSampleId :

A2 SB69 BOT-N 10.5DL

Tot Ion:202 Resp: 1174190

Ion Ratio Lower Upper

202 100

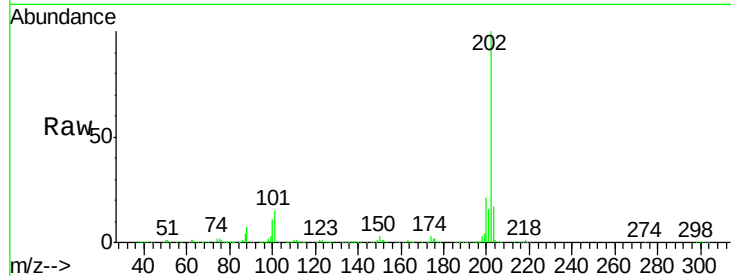
101 15.1 0.0 34.1

203 17.4 0.0 38.1

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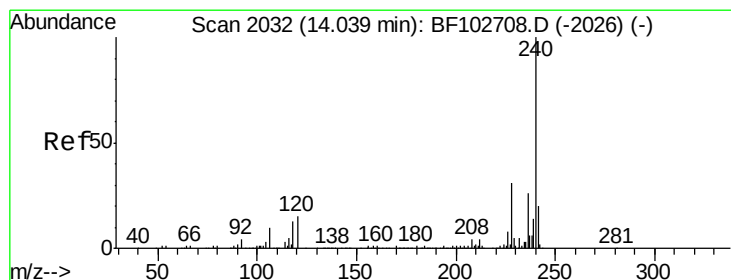
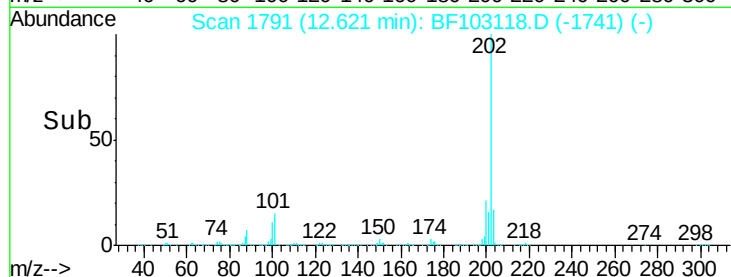
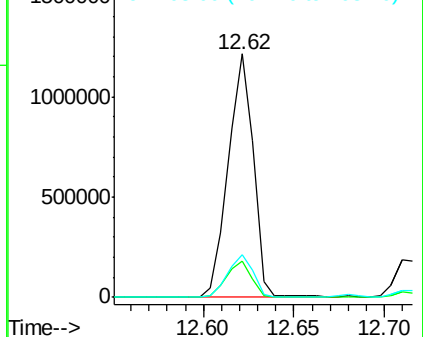
2/21/2018 10:10:29 AM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF103118.D

Acq: 20 Feb 2018 11:54

Tgt Ion:240 Resp: 315120

Ion Ratio Lower Upper

240 100

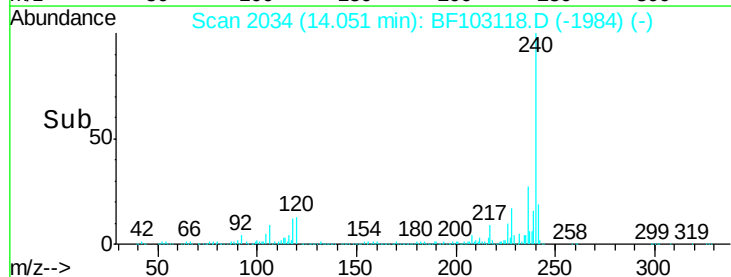
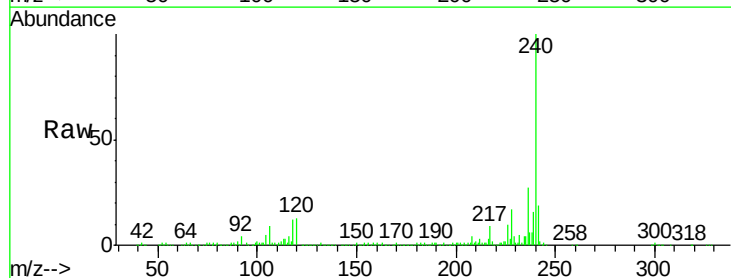
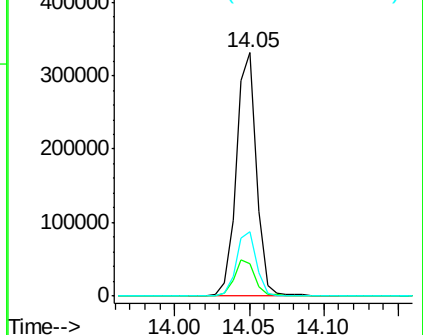
120 13.5 9.5 14.3

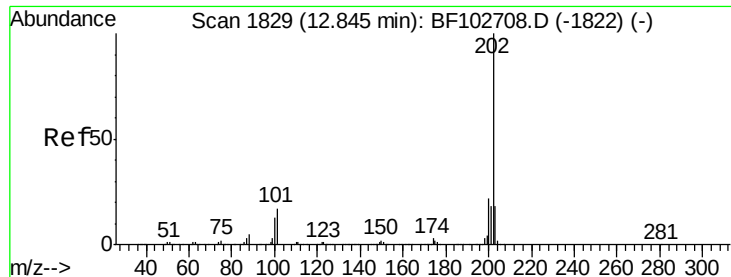
236 26.6 20.7 31.1

Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





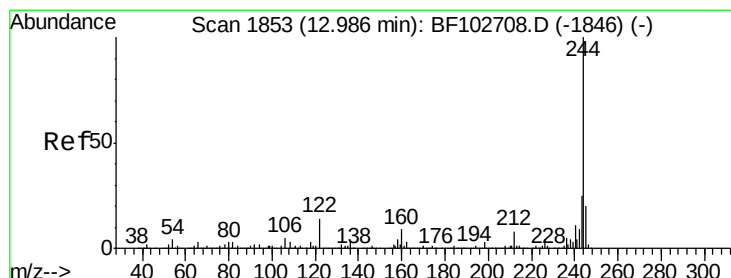
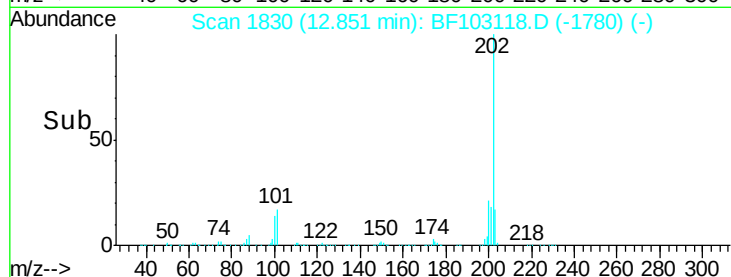
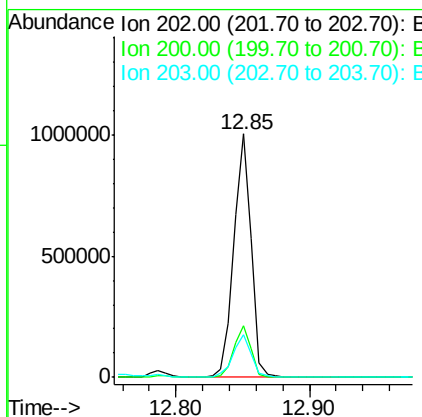
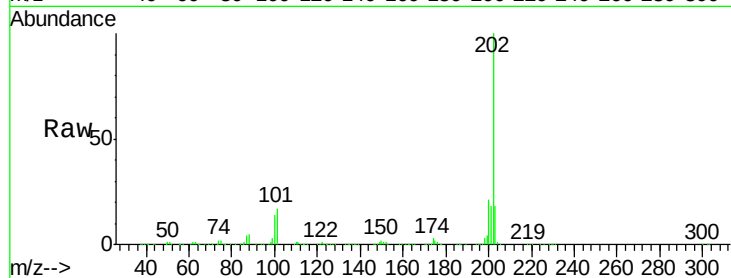
#77
Pvrene
Concen: 36.909 ng
RT: 12.85 min Scan# 1830
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.3	17.4	26.2
203	17.7	14.3	21.5

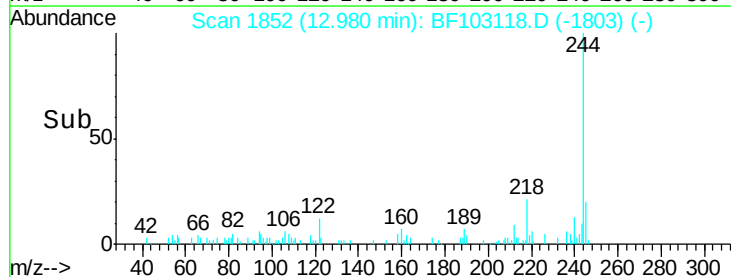
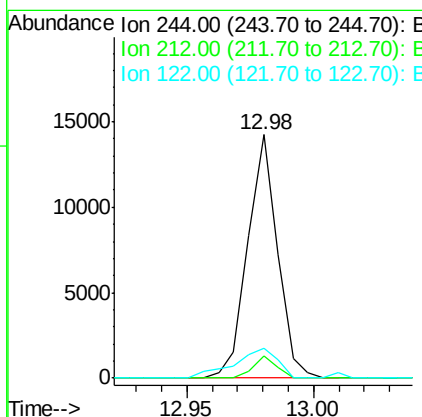
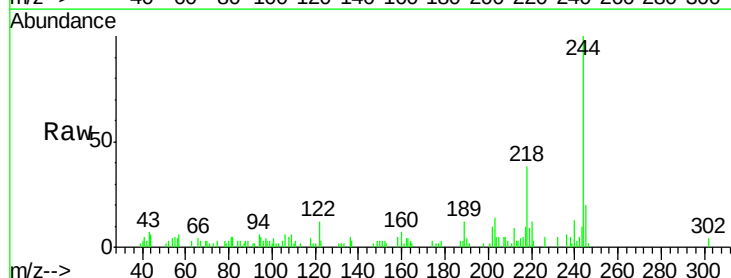
Manual Integrations
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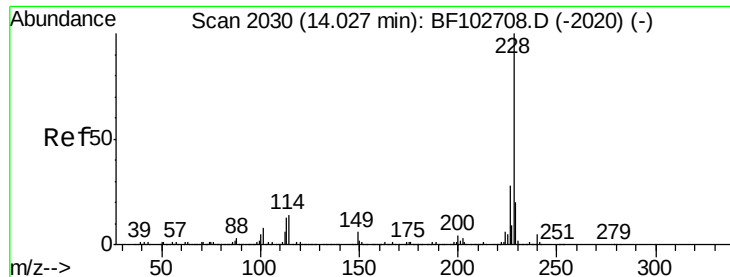
Sohil
2/21/2018 10:10:29 AM



#78
Terphenyl-d14
Concen: 0.877 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	9.0	5.4	8.0#
122	12.3	11.0	16.4





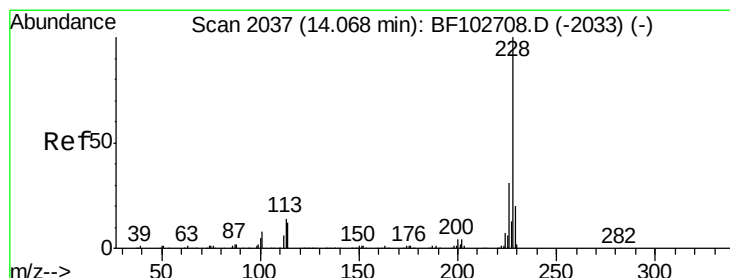
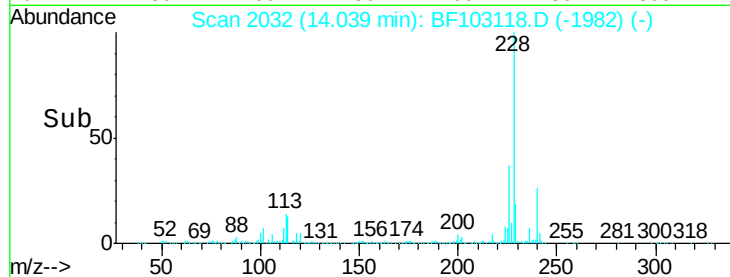
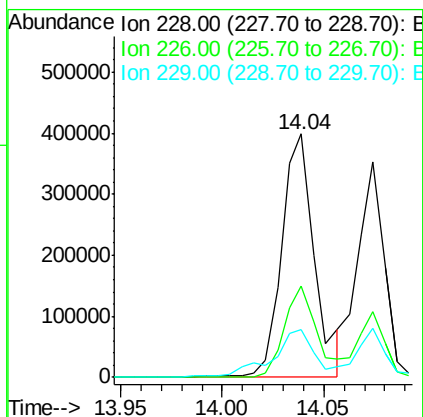
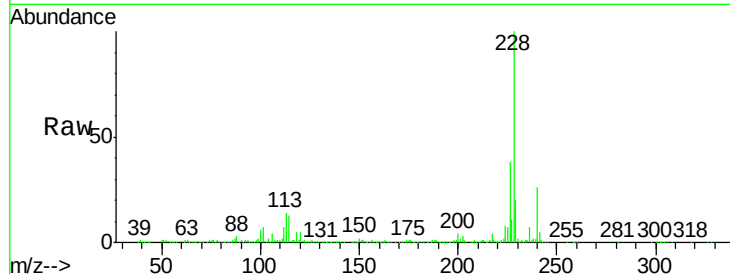
#80
Benzo(a)anthracene
Concen: 22.737 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	37.6	22.6	33.8#
229	19.8	15.8	23.6

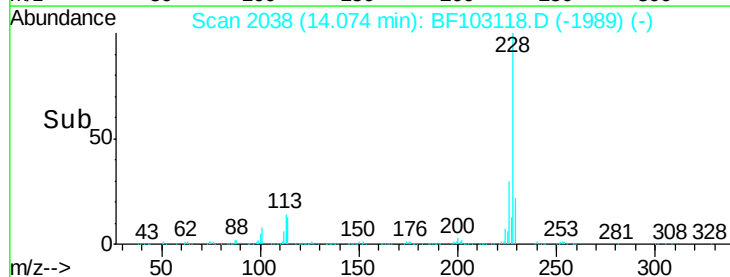
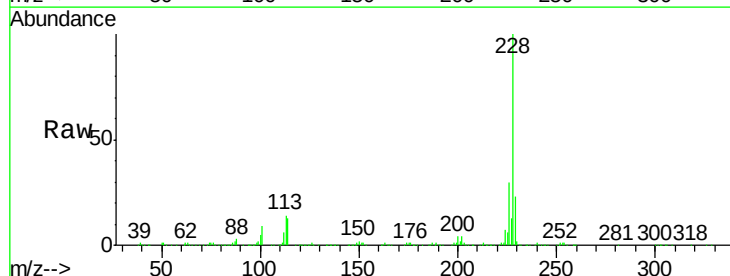
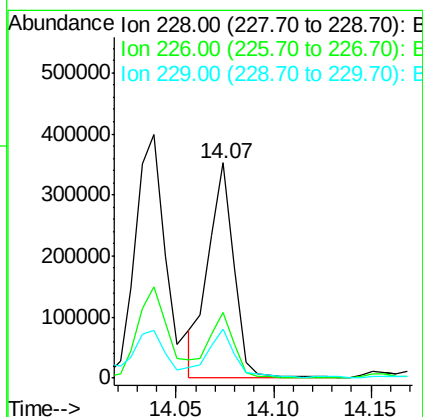
Manual Integrations
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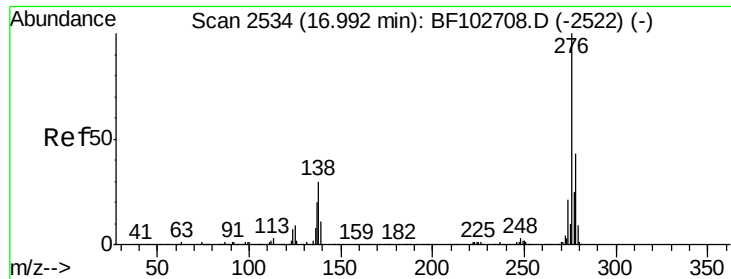
Sohil
2/21/2018 10:10:29 AM



#82
Chrysene
Concen: 15.883 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	22.9	16.2	24.4





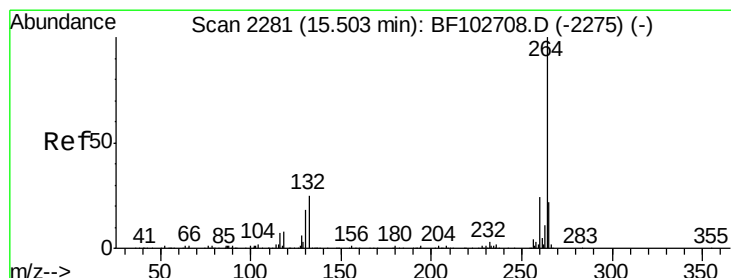
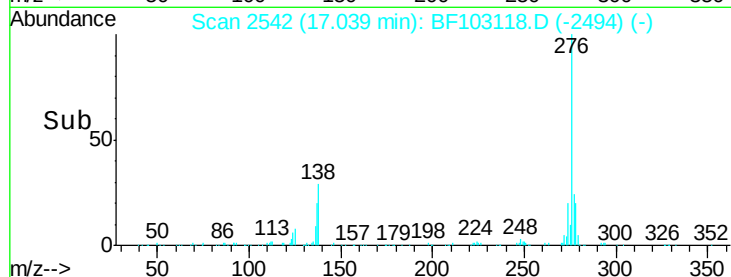
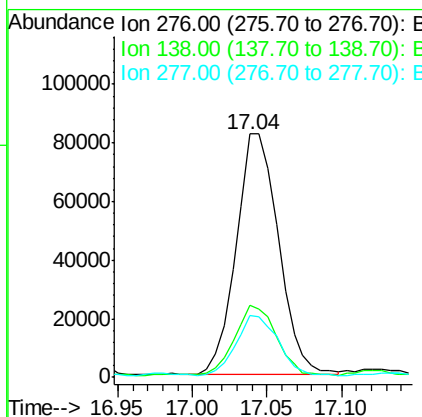
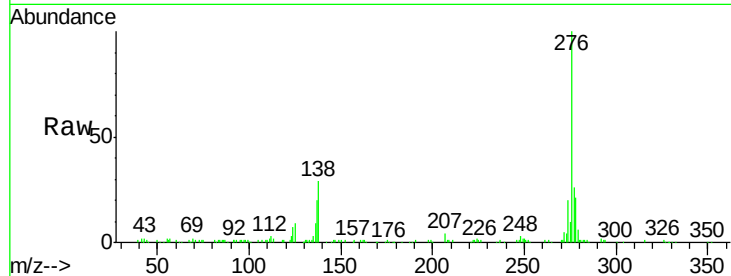
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.833 ng
RT: 17.04 min Scan# 2542
Delta R.T. -0.02 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.4	25.0	37.6
277	24.2	20.1	30.1

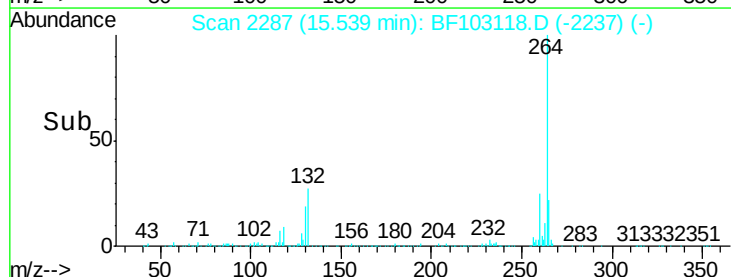
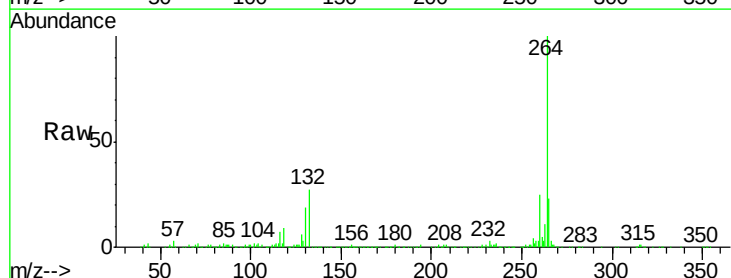
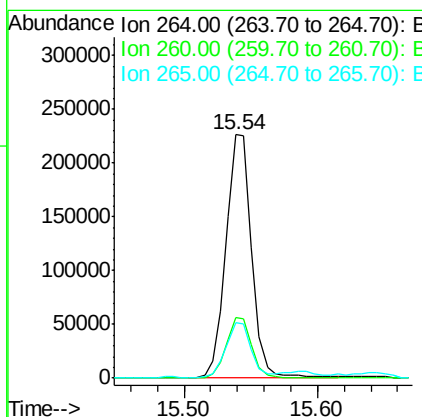
Manual Integrations
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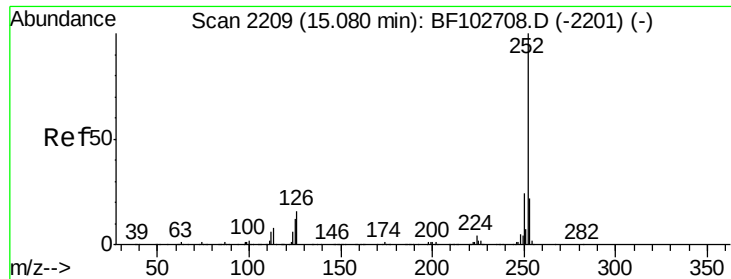
Sohil
2/21/2018 10:10:29 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2287
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.2	28.8
265	22.6	17.5	26.3





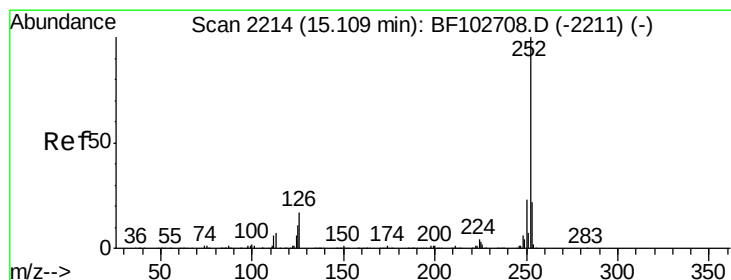
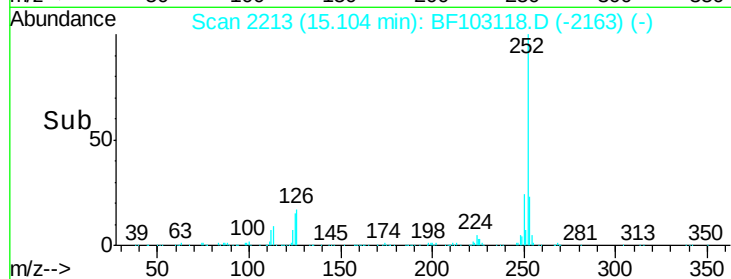
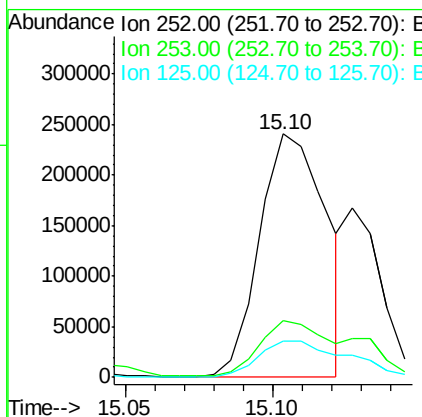
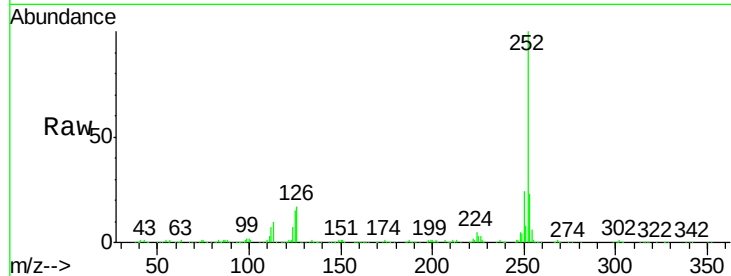
#87
Benzo(b)fluoranthene
Concen: 19.007 ng m
RT: 15.10 min Scan# 2213
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	15.0	9.0	13.6

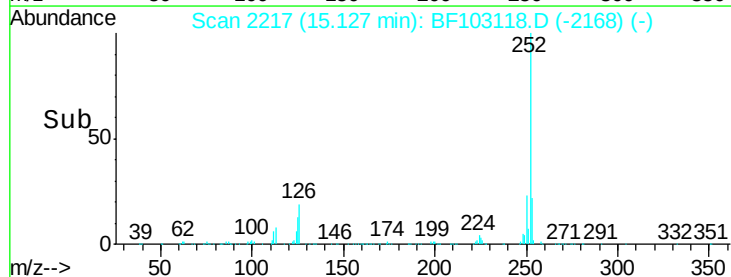
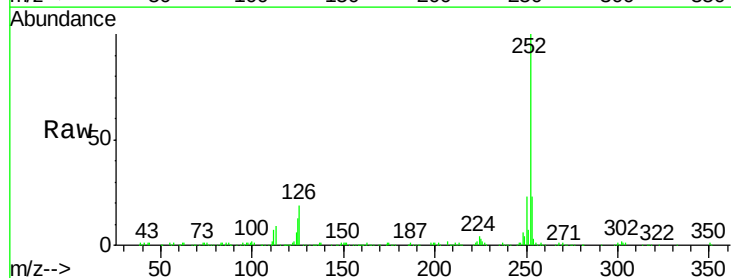
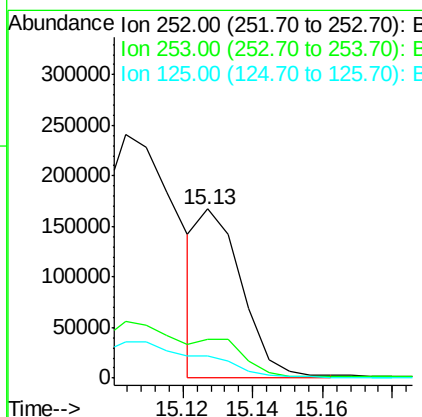
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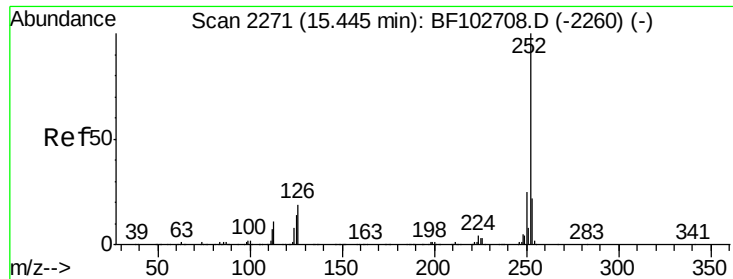
Sohil
2/21/2018 10:10:29 AM



#88
Benzo(k)fluoranthene
Concen: 7.660 ng m
RT: 15.13 min Scan# 2217
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	13.1	10.2	15.2





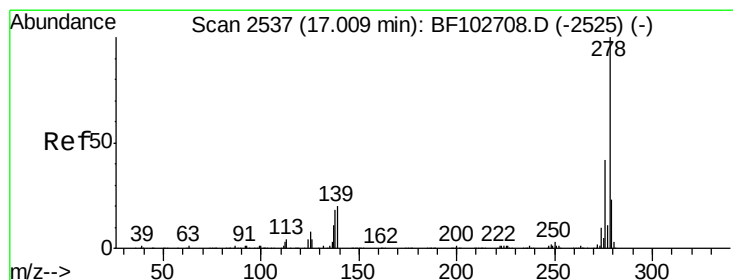
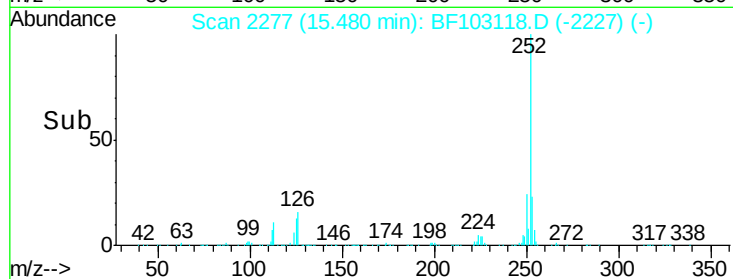
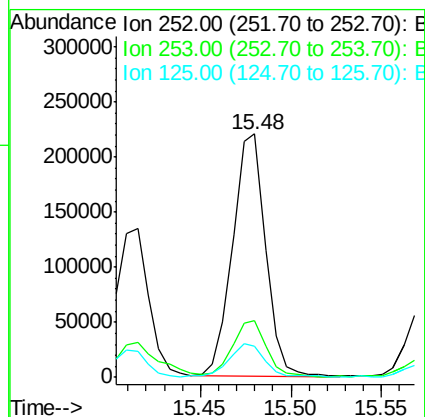
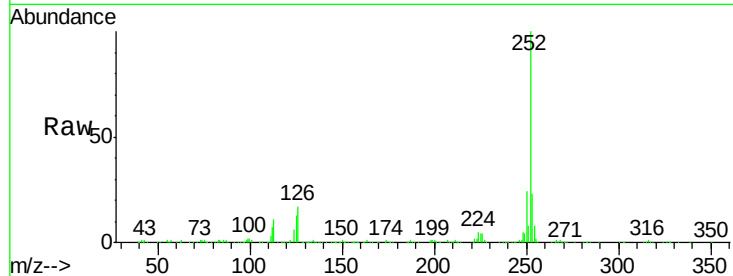
#89
Benzo(a)pyrene
Concen: 15.735 ng
RT: 15.48 min Scan# 2277
Delta R.T. -0.01 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	12.9	9.8	14.6

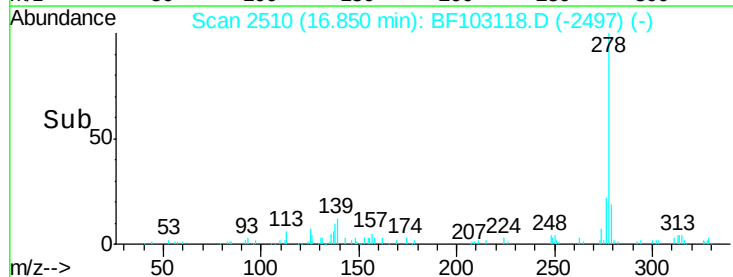
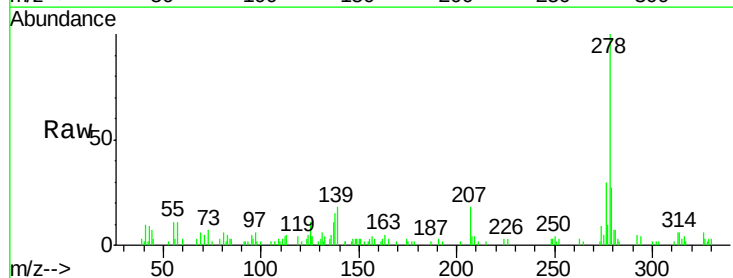
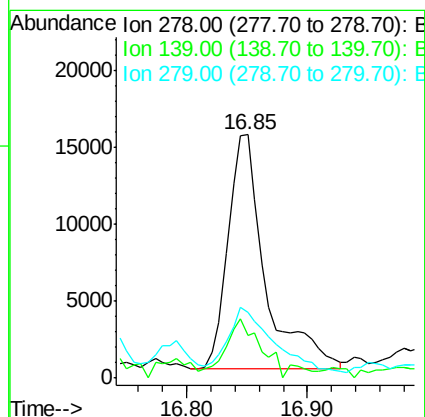
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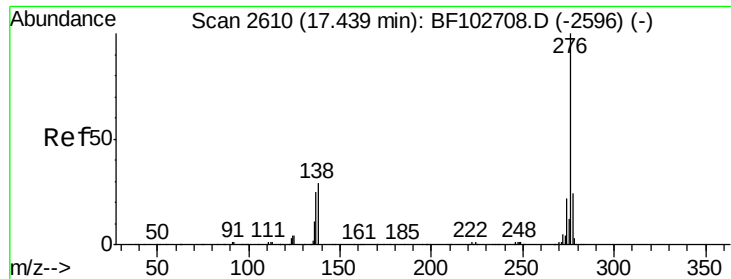
Sohil
2/21/2018 10:10:29 AM



#90
Dibenzo(a,h)anthracene
Concen: 2.266 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.22 min
Lab File: BF103118.D
Acq: 20 Feb 2018 11:54

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.7	15.9	23.9
279	27.1	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 10.014 ng
 RT: 17.50 min Scan# 2621
 Delta R.T. -0.02 min
 Lab File: BF103118.D
 Acq: 20 Feb 2018 11:54

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_BOT-N_10.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.3	17.9	26.9
138	28.1	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 2/21/2018 10:10:29 AM

