

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF022018\
 Data File : BF103115.D
 Acq On : 20 Feb 2018 10:34
 Operator : SJ/JU
 Sample : J1600-02DL 40X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_N_8DL

Manual Integrations
 APPROVED

Sohil
 2/21/2018 10:10:25 AM

Quant Time: Feb 20 13:49:47 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	148740	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	650172	20.00	ng	0.00
38) Acenaphthene-d10	9.91	164	299635	20.00	ng	-0.01
63) Phenanthrene-d10	11.40	188	510121	20.00	ng	0.00
75) Chrysene-d12	14.05	240	297274	20.00	ng	0.00
86) Perylene-d12	15.54	264	303394	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	14725	1.50	ng	0.00
7) Phenol-d6	6.50	99	25245	2.14	ng	0.00
23) Nitrobenzene-d5	7.44	82	15069	1.61	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	6467	2.68	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	36690	2.03	ng	-0.01
78) Terphenyl-d14	12.98	244	36347	2.90	ng	-0.01
Target Compounds						
31) Naphthalene	8.18	128	203143	6.395	ng	98
37) 2-Methylnaphthalene	8.87	142	41905	2.015	ng	99
48) Acenaphthylene	9.77	152	361085	11.701	ng	100
54) Dibenzofuran	10.12	168	56379	2.168	ng	95
57) Fluorene	10.46	166	83948	4.436	ng	98
70) Phenanthrene	11.43	178	651691	22.938	ng	99
71) Anthracene	11.48	178	241511	8.358	ng	98
74) Fluoranthene	12.62	202	1197521	41.894	ng	99
77) Pyrene	12.86	202	1192786	51.169	ng	99
80) Benzo(a)anthracene	14.04	228	612691m	32.772	ng	
82) Chrysene	14.07	228	530311	28.139	ng	98
85) Indeno(1,2,3-cd)pyrene	17.06	276	428389	27.407	ng	95
87) Benzo(b)fluoranthene	15.11	252	739872m	37.614	ng	
88) Benzo(k)fluoranthene	15.13	252	259172m	13.790	ng	
89) Benzo(a)pyrene	15.49	252	587812	33.199	ng	95
90) Dibenzo(a,h)anthracene	17.06	278	116322m	8.094	ng	
91) Benzo(g,h,i)perylene	17.52	276	437896	31.131	ng	97

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

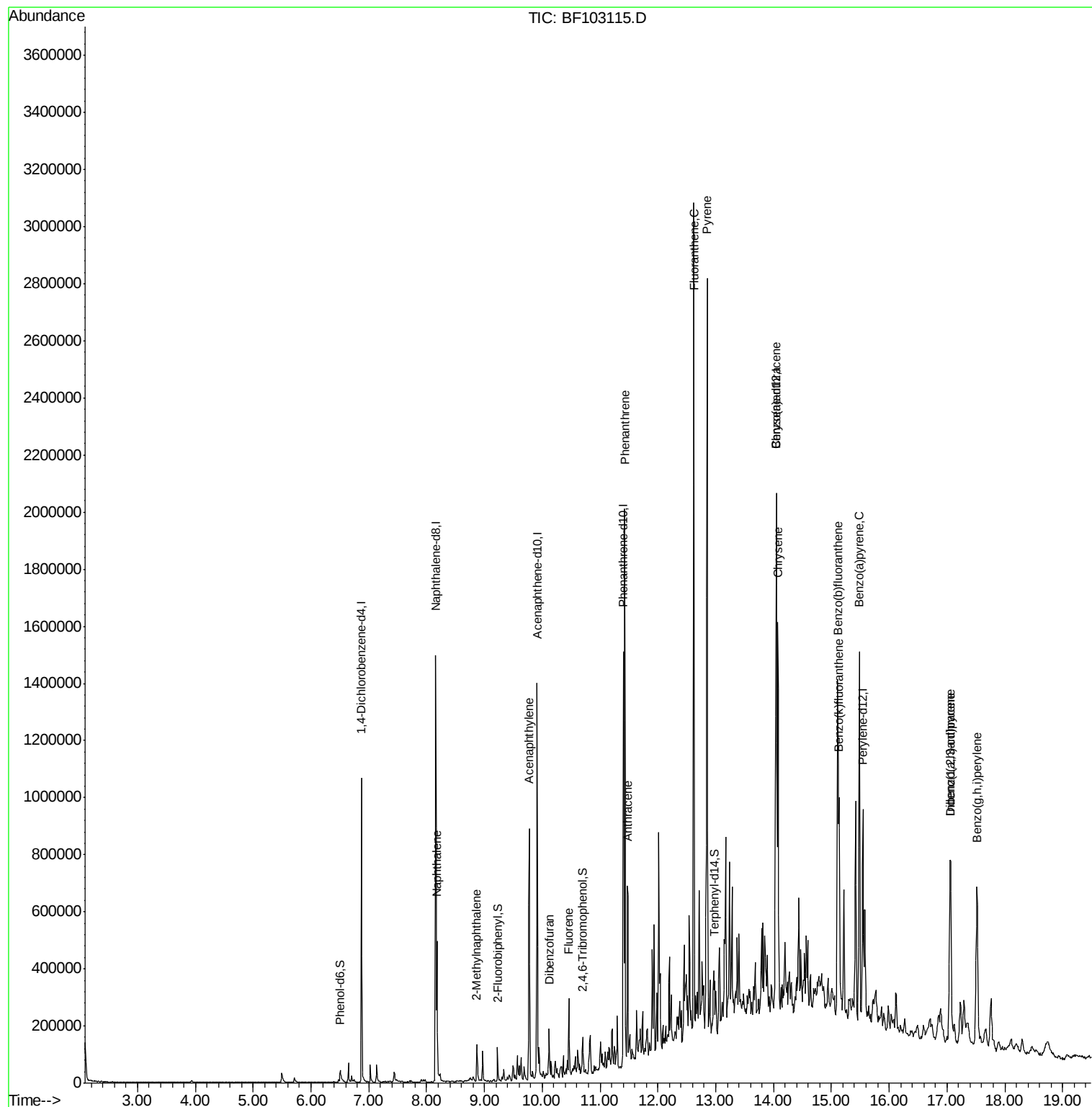
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF022018\
Data File : BF103115.D
Acq On : 20 Feb 2018 10:34
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#1

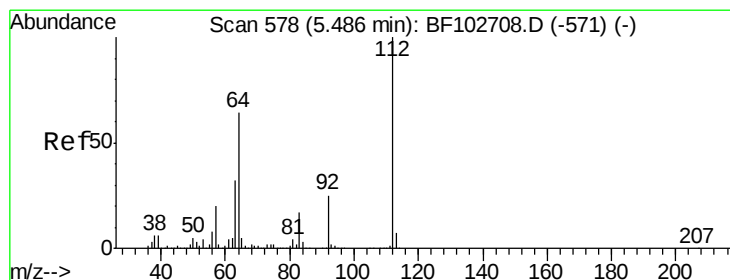
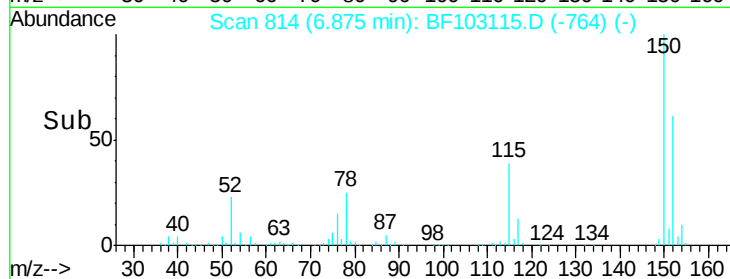
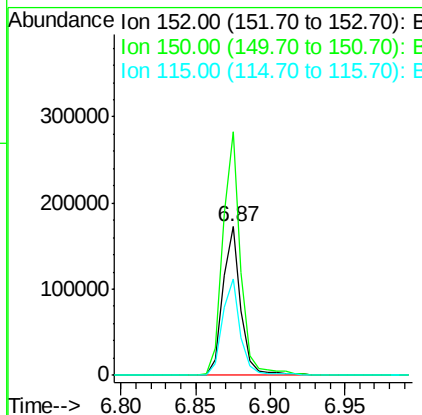
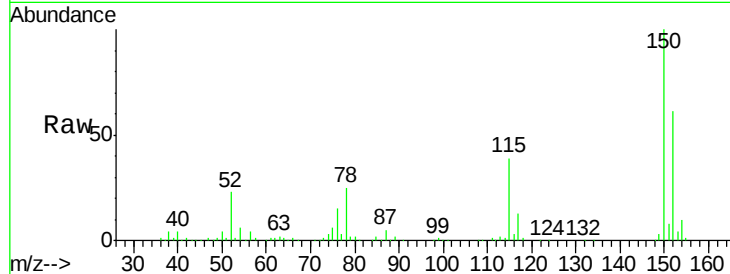
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Instrument :
BNA_F
ClientSampleId :
A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.6	124.6	186.8
115	64.6	50.1	75.1

Manual Integrations
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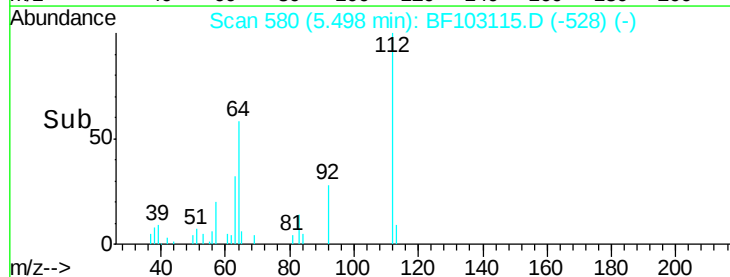
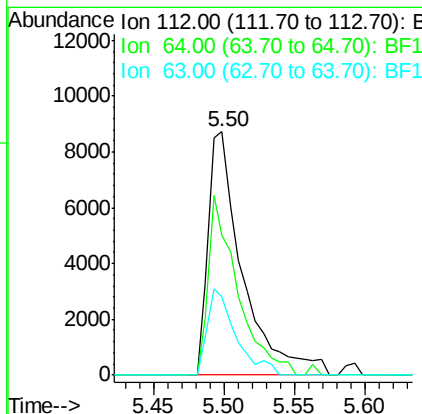
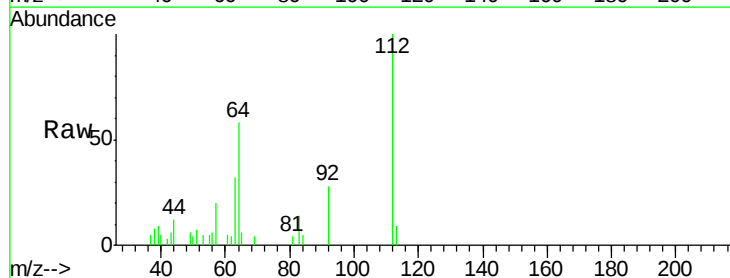
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#5

2-Fluorophenol
Concen: 1.503 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.9	71.9
63	32.1	23.7	35.5





#7

Phenol-d6

Concen: 2.141 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103115.D

Acq: 20 Feb 2018 10:34

Instrument :

BNA_F

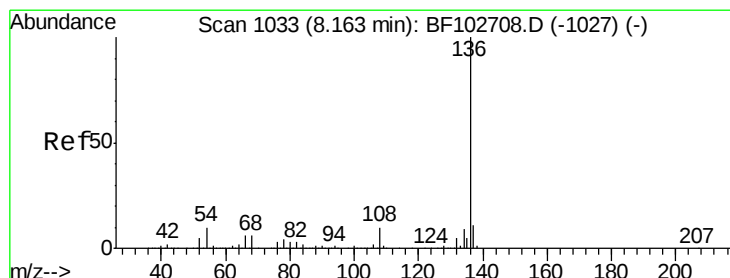
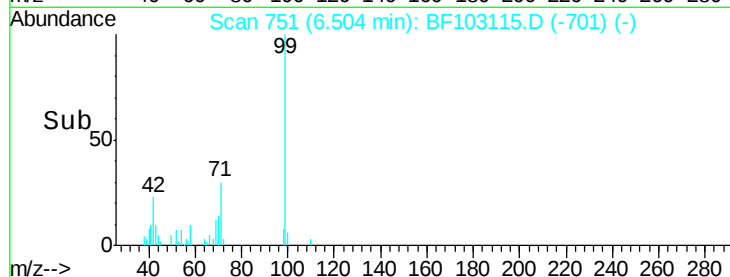
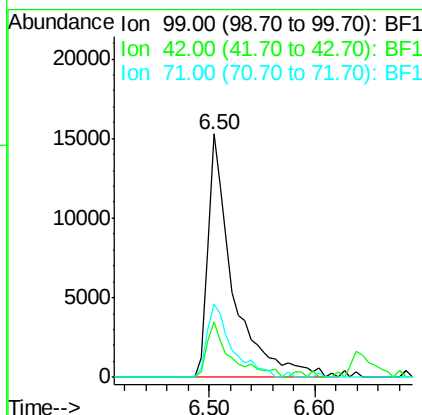
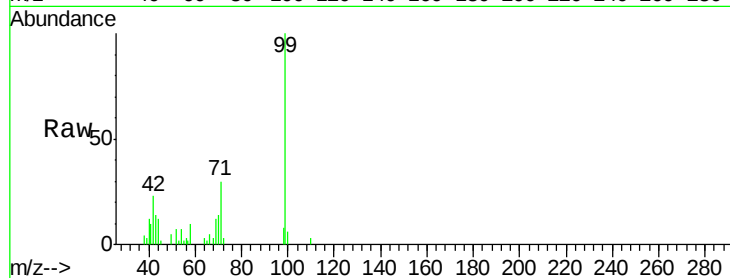
ClientSampleId :

A2_SB69_N_8DL

Tot Ion:	99	Resp:	25245
Ion Ratio	Lower	Upper	
99	100		
42	22.7	14.5	21.7#
71	30.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

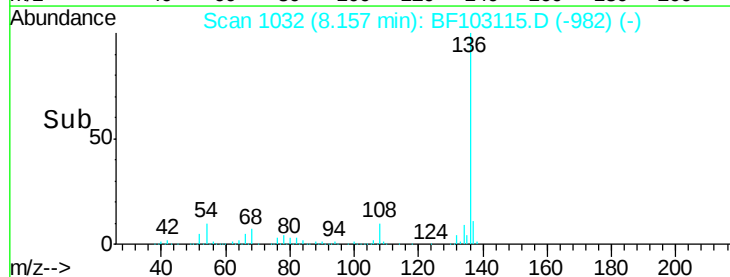
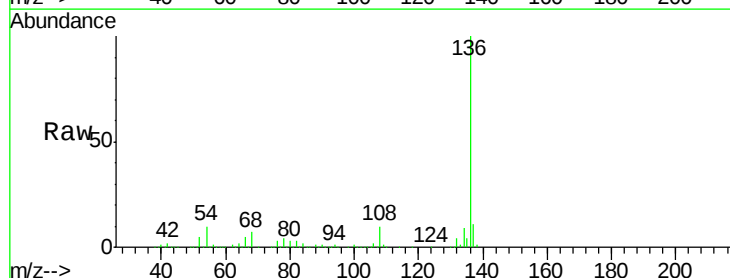
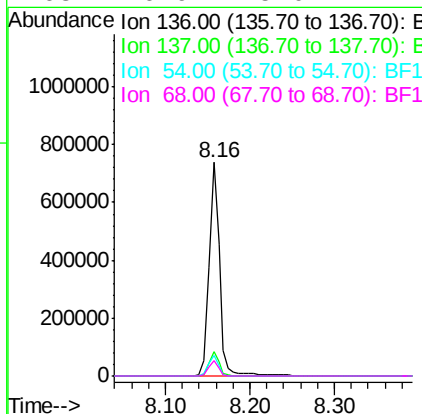
RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF103115.D

Acq: 20 Feb 2018 10:34

Tgt Ion:	136	Resp:	650172
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.9	13.3
54	9.8	6.6	9.8
68	6.9	5.0	7.4





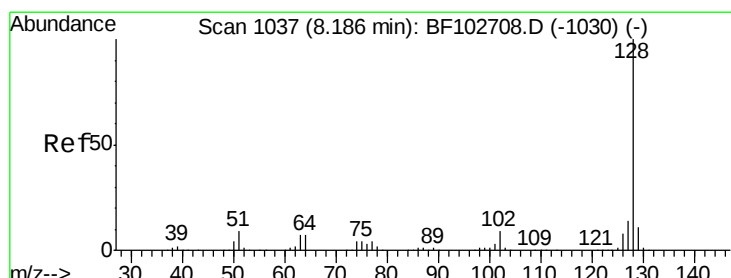
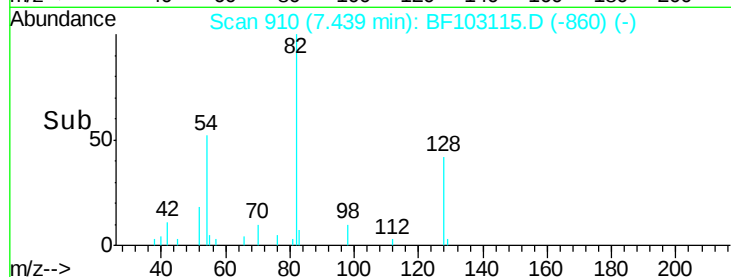
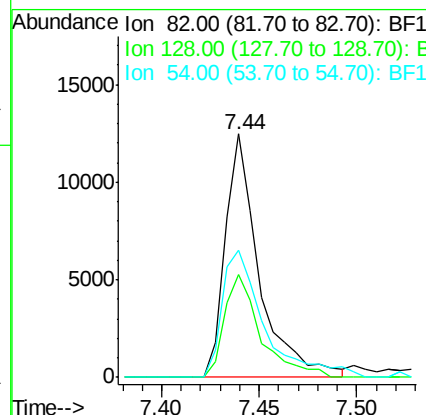
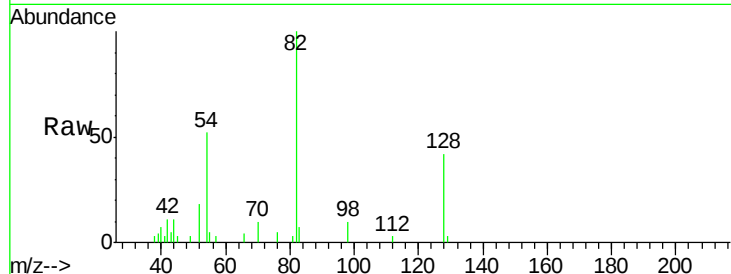
#23
Nitrobenzene-d5
Concen: 1.608 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Instrument :
BNA_F
ClientSampleId :
A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.1	36.1	54.1
54	52.0	41.4	62.2

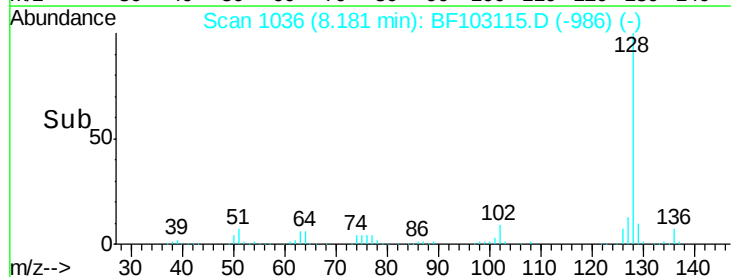
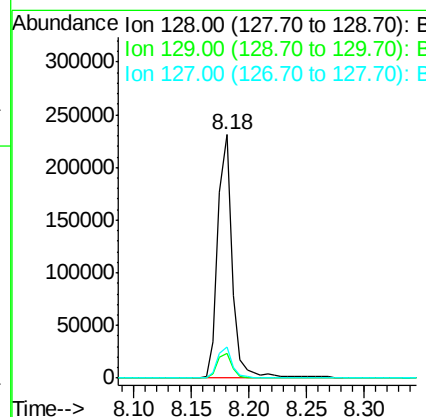
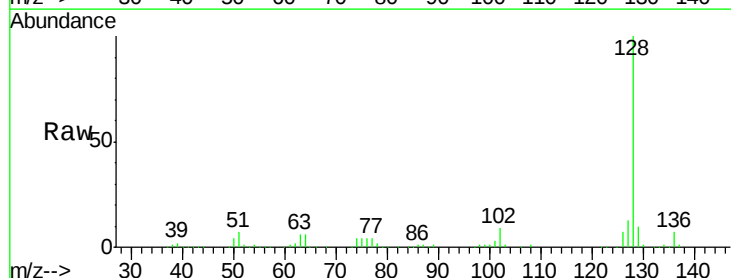
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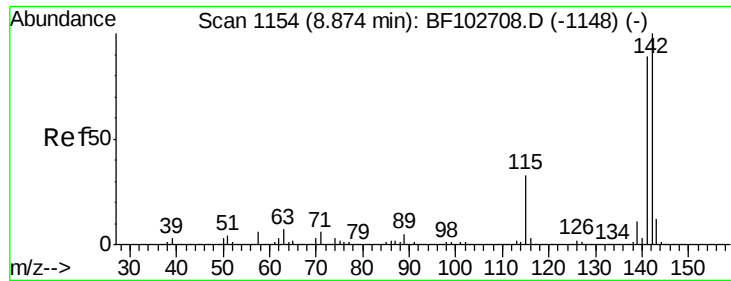
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#31
Naphthalene
Concen: 6.395 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.8	13.2
127	12.8	10.9	16.3





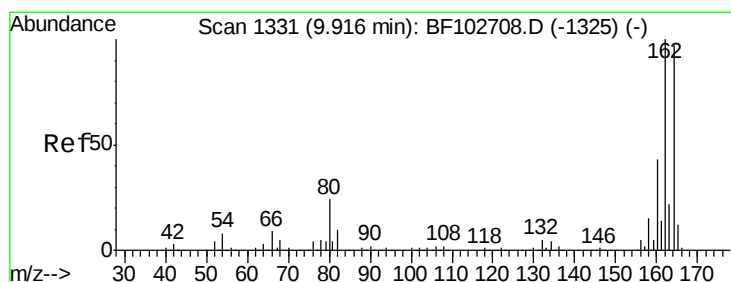
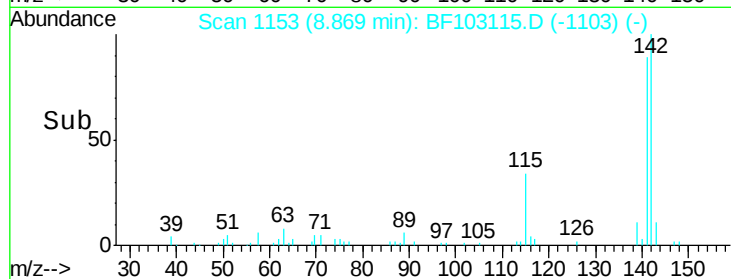
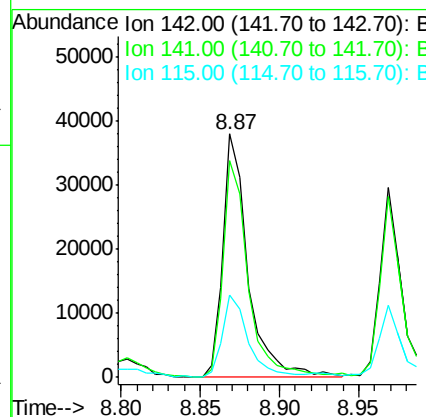
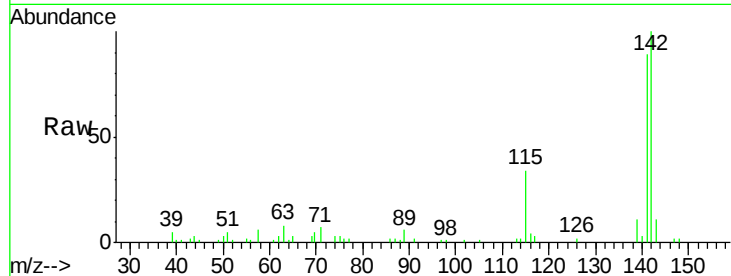
#37
2-Methylnaphthalene
Concen: 2.015 ng
RT: 8.87 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Instrument :
BNA_F
ClientSampleId :
A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.8	106.2
115	33.8	26.1	39.1

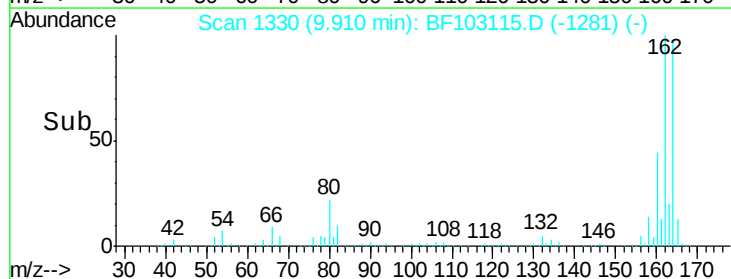
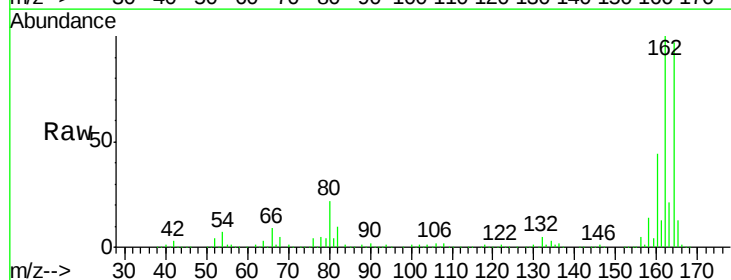
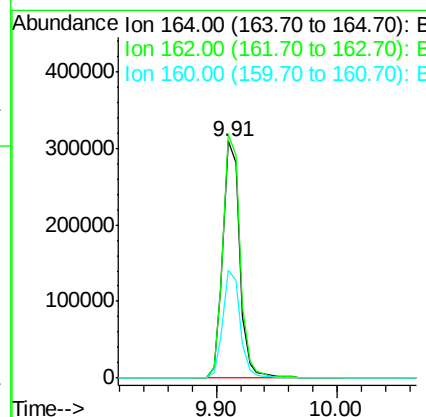
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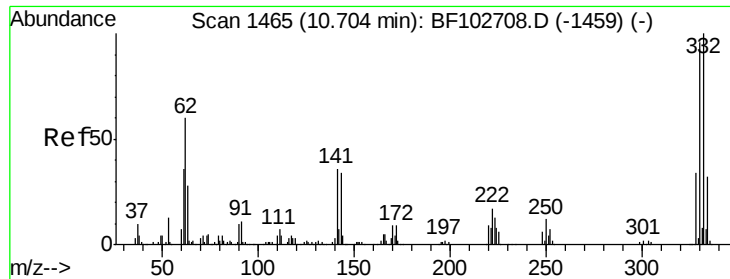
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.8	86.1	129.1
160	45.4	38.3	57.5





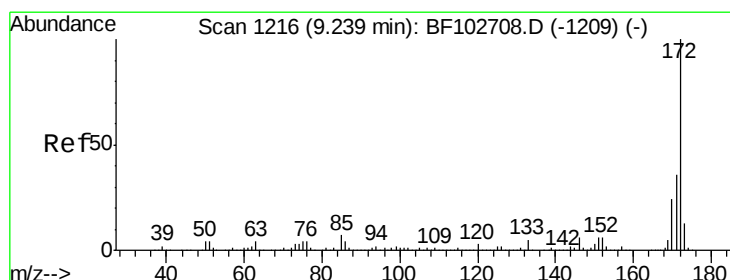
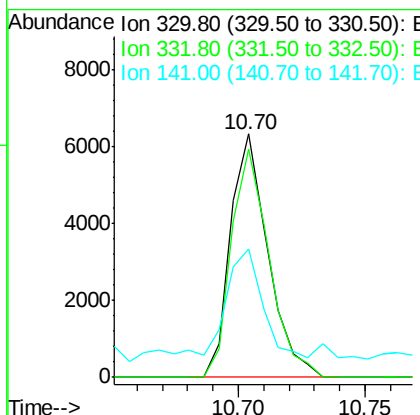
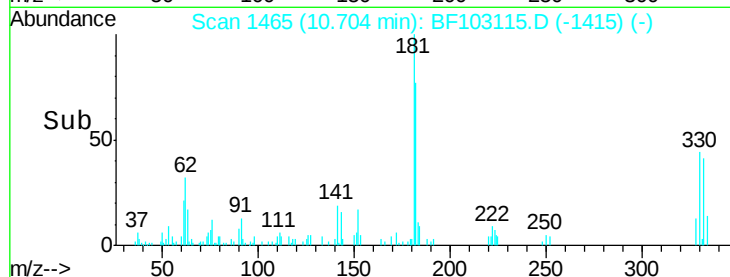
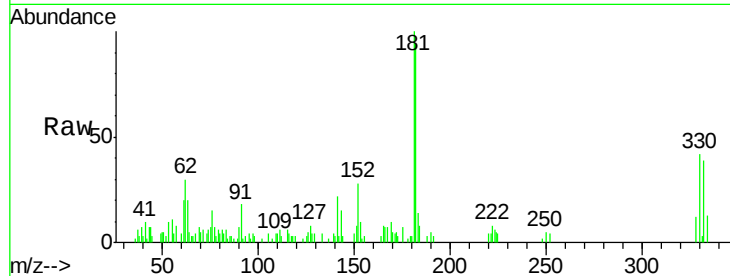
#41
 2,4,6-Tribromophenol
 Concen: 2.681 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF103115.D
 Acq: 20 Feb 2018 10:34

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.9	77.0	115.6
141	56.8	29.9	44.9

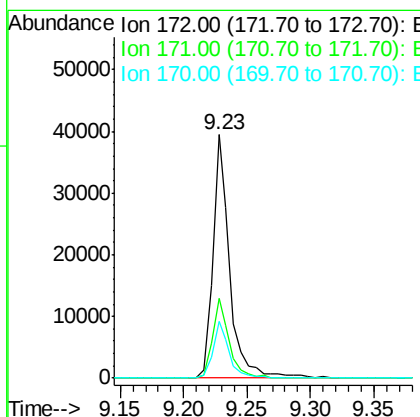
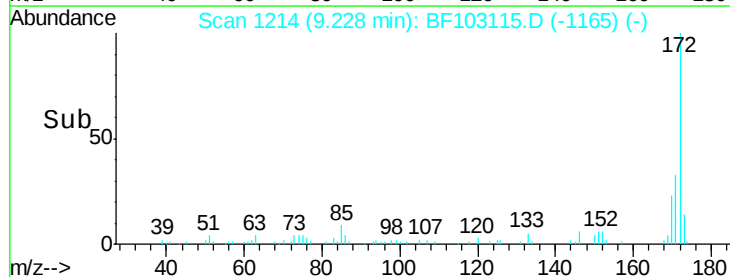
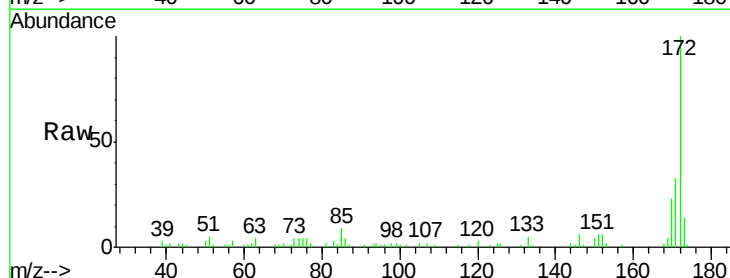
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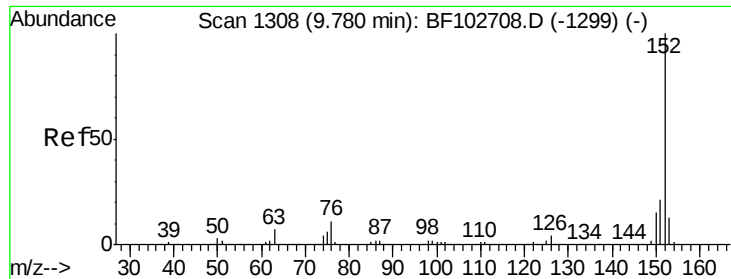
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#44
 2-Fluorobiphenyl
 Concen: 2.032 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.01 min
 Lab File: BF103115.D
 Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.7	29.7	44.5
170	23.3	19.6	29.4





#48

Acenaphthylene

Concen: 11.701 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF103115.D

Acq: 20 Feb 2018 10:34

Instrument :

BNA_F

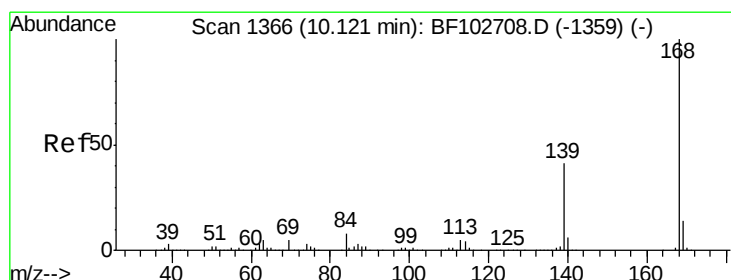
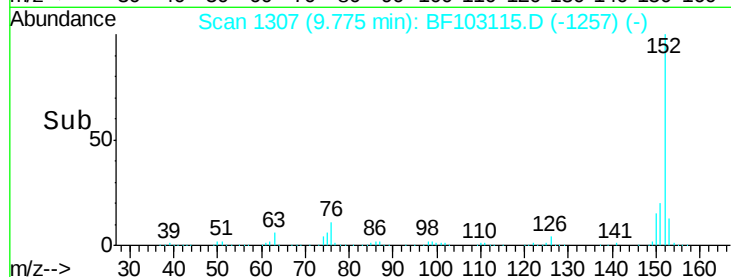
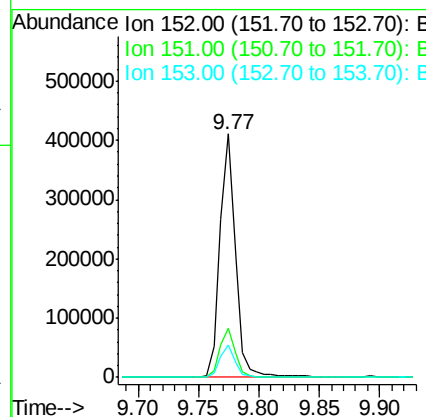
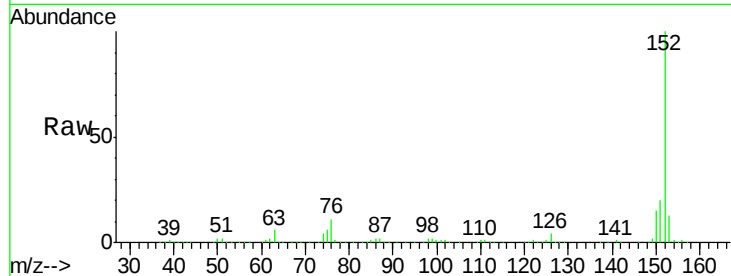
ClientSampleId :

A2_SB69_N_8DL

Tot Ion:	152	Resp:	361085
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.3	24.5
153	13.1	10.7	16.1

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#54

Dibenzofuran

Concen: 2.168 ng

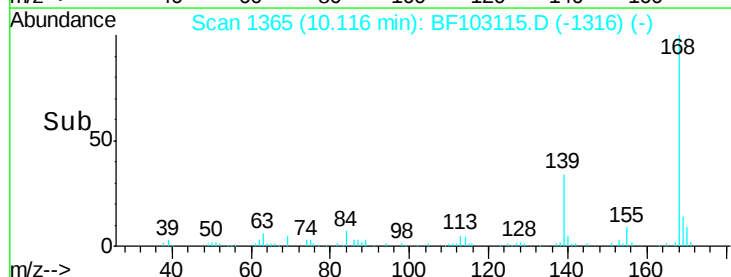
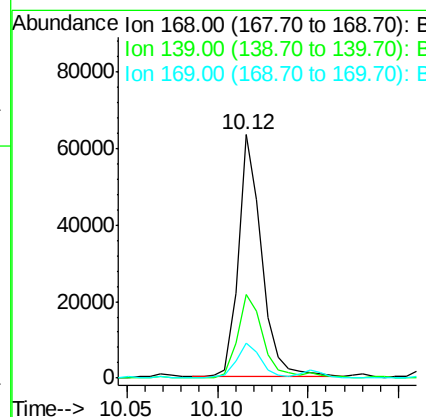
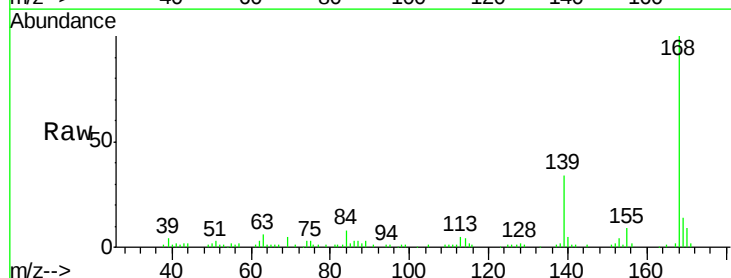
RT: 10.12 min Scan# 1365

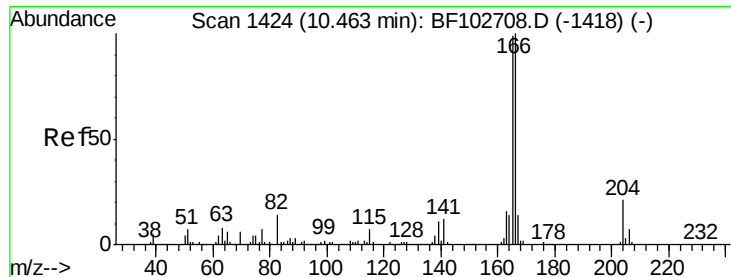
Delta R.T. -0.01 min

Lab File: BF103115.D

Acq: 20 Feb 2018 10:34

Tgt Ion:	168	Resp:	56379
Ion Ratio	Lower	Upper	
168	100		
139	34.1	30.1	45.1
169	14.3	10.9	16.3





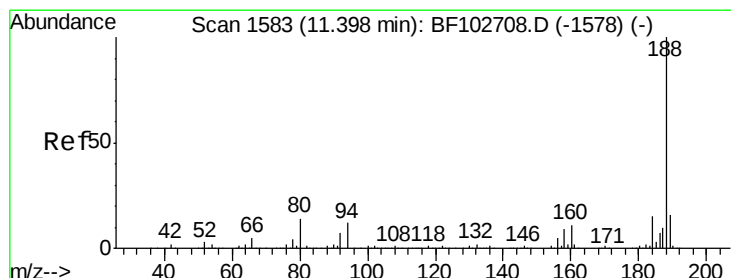
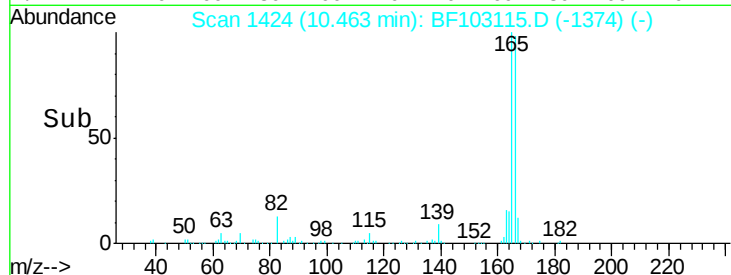
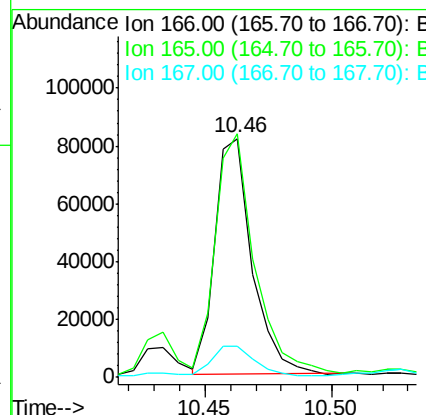
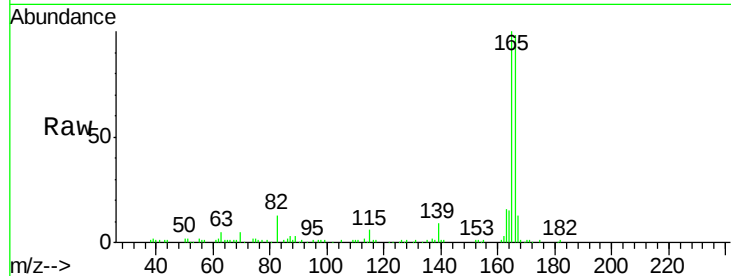
#57
Fluorene
 Concen: 4.436 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF103115.D
 Acq: 20 Feb 2018 10:34

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_N_8DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	102.0	79.8	119.8		
167	13.3	10.6	16.0		

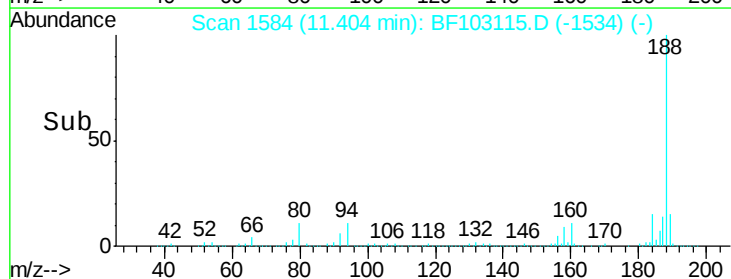
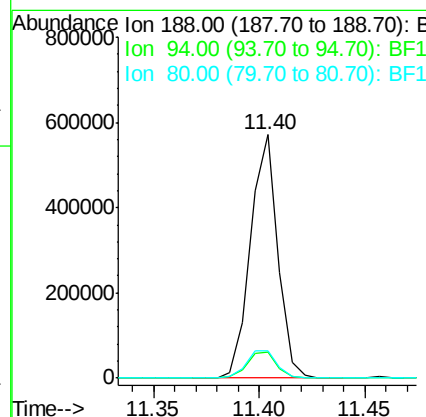
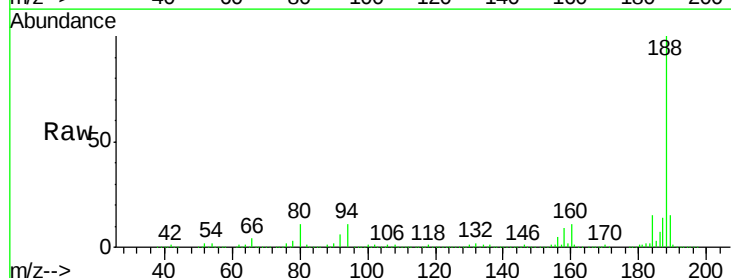
Manual Integrations
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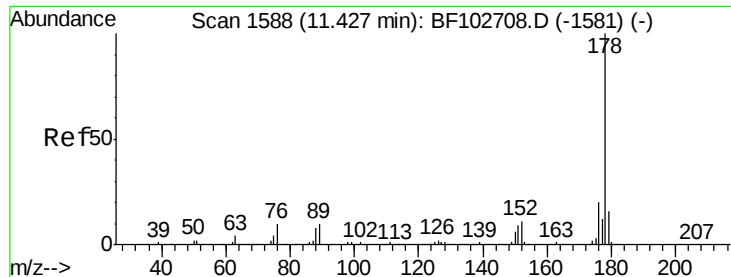
Sohil
 2/21/2018 10:10:25 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF103115.D
 Acq: 20 Feb 2018 10:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	10.8	8.5	12.7		
80	11.3	9.2	13.8		





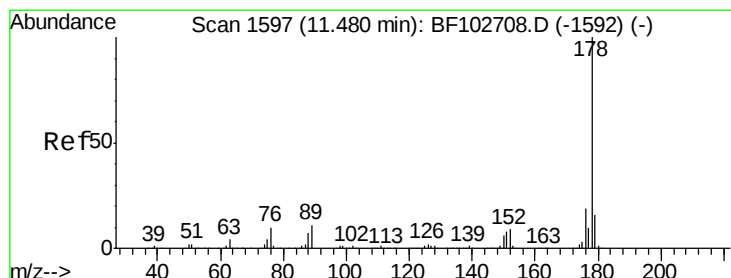
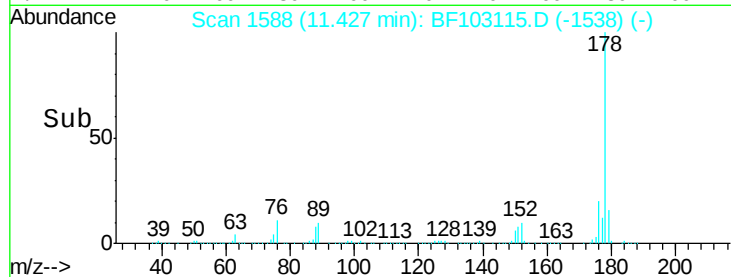
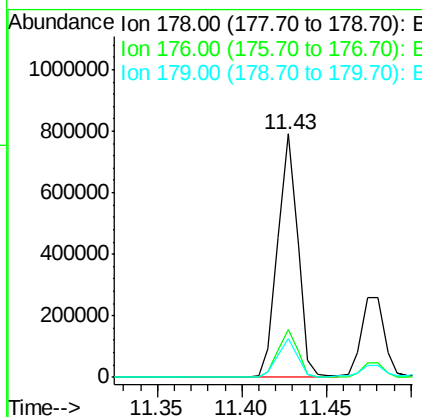
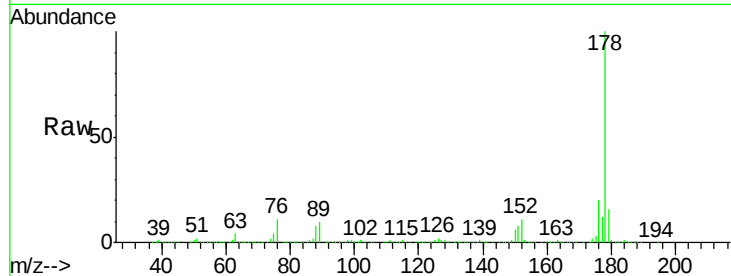
#70
Phenanthrene
Concen: 22.938 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Instrument :
BNA_F
ClientSampleId :
A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.7	13.0	19.6

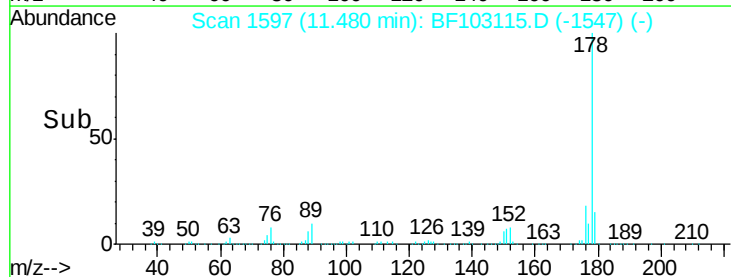
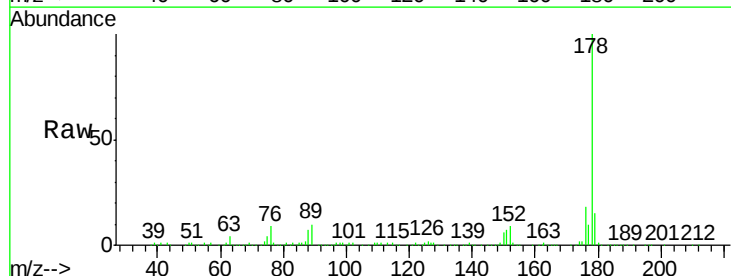
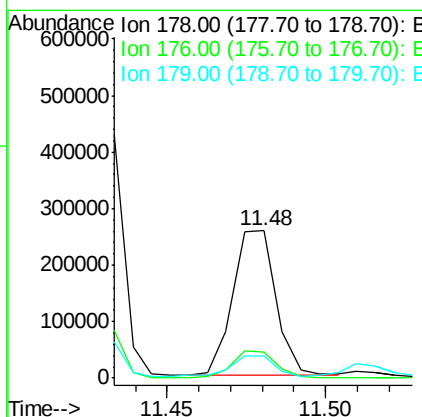
Manual Integrations
APPROVED

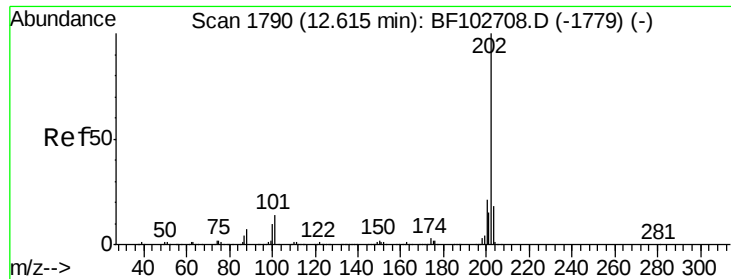
Sohil
2/21/2018 10:10:25 AM



#71
Anthracene
Concen: 8.358 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.4	23.2
179	15.2	12.6	19.0





#74

Fluoranthene

Concen: 41.894 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF103115.D

Acq: 20 Feb 2018 10:34

Instrument :

BNA_F

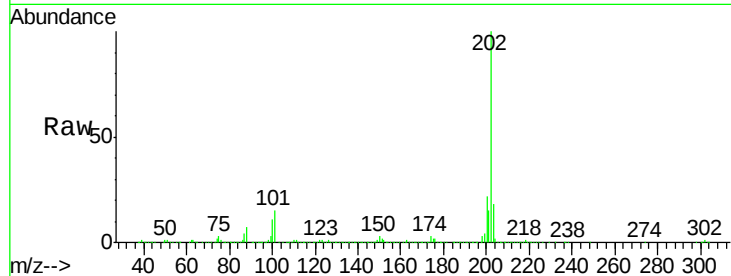
ClientSampleId :

A2_SB69_N_8DL

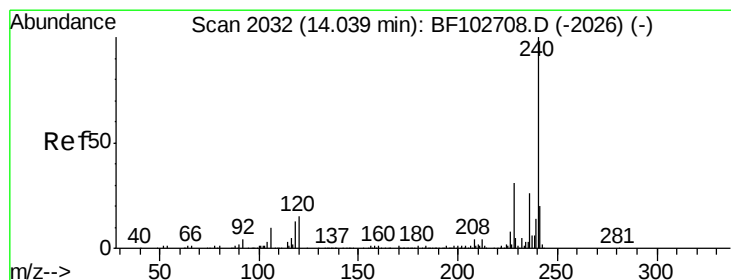
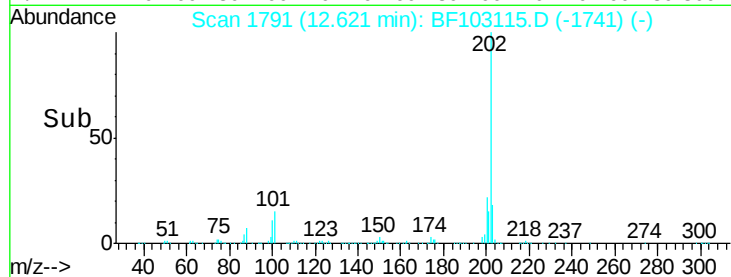
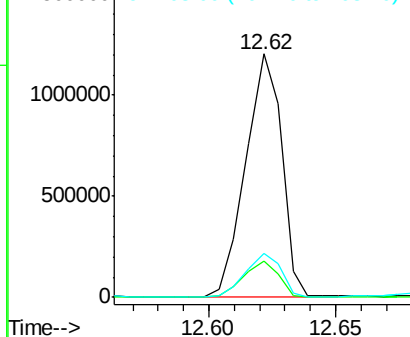
Tot Ion:	202	Resp:	1197521
Ion Ratio	Lower	Upper	
202	100		
101	15.0	0.0	34.1
203	18.2	0.0	38.1

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2/21/2018 10:10:25 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

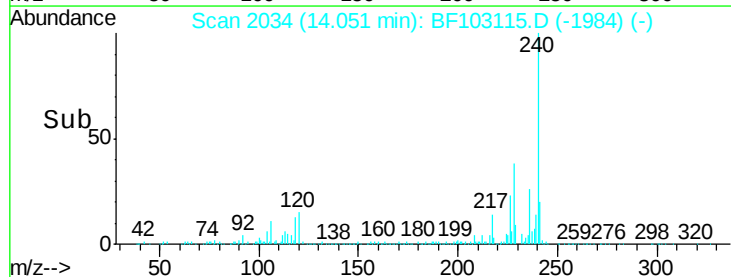
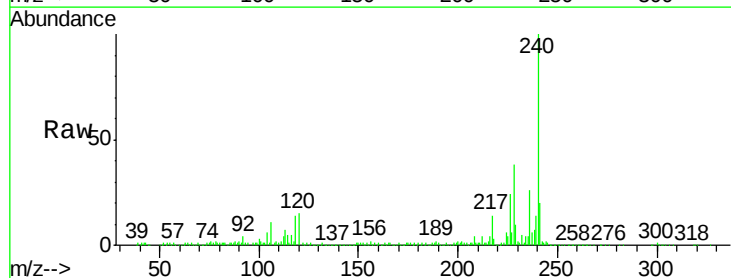
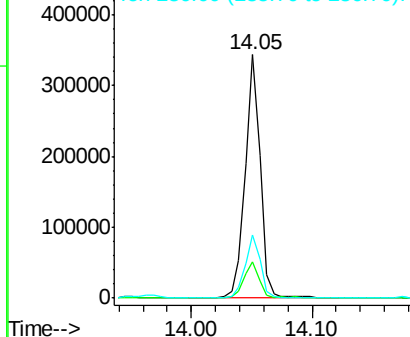
Delta R.T. -0.01 min

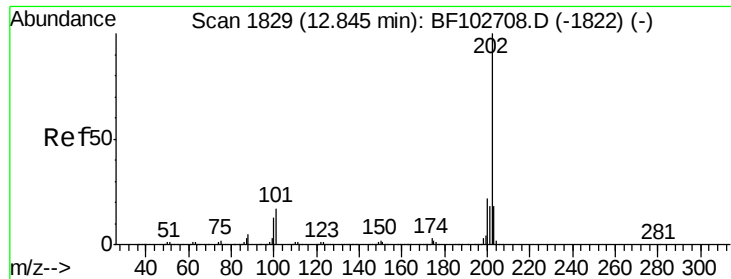
Lab File: BF103115.D

Acq: 20 Feb 2018 10:34

Tgt Ion:	240	Resp:	297274
Ion Ratio	Lower	Upper	
240	100		
120	15.0	9.5	14.3#
236	26.1	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: 51.169 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.00 min

Lab File: BF103115.D

Acq: 20 Feb 2018 10:34

Instrument :

BNA_F

ClientSampleId :

A2_SB69_N_8DL

Tot Ion:202 Resp: 1192786

Ion Ratio Lower Upper

202 100

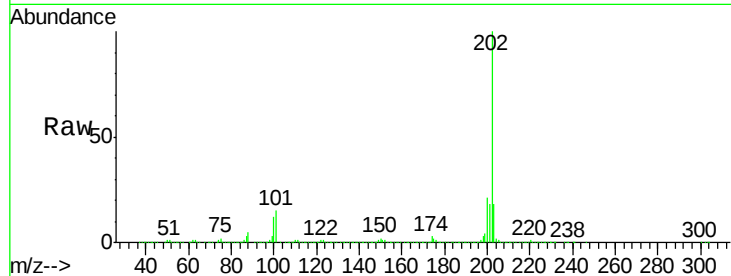
200 21.5 17.4 26.2

203 18.1 14.3 21.5

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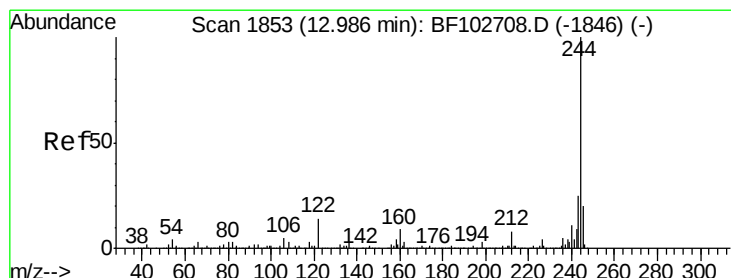
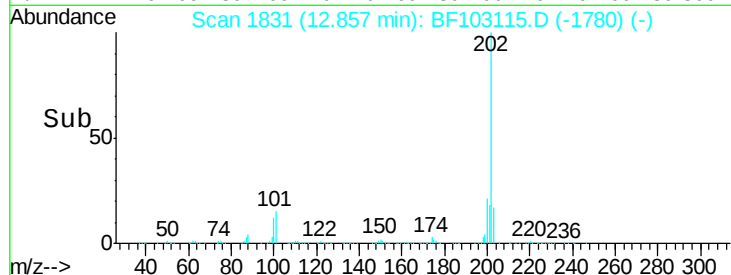
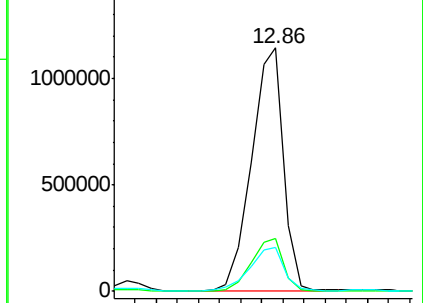
2/21/2018 10:10:25 AM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 2.895 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BF103115.D

Acq: 20 Feb 2018 10:34

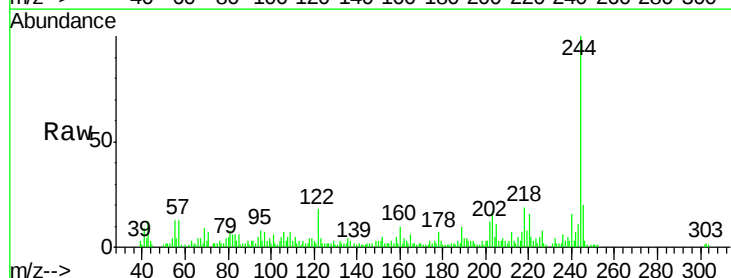
Tgt Ion:244 Resp: 36347

Ion Ratio Lower Upper

244 100

212 7.4 5.4 8.0

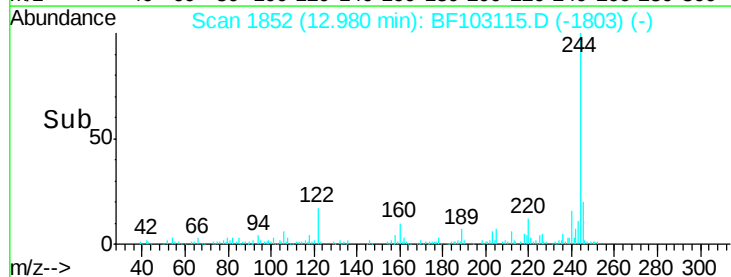
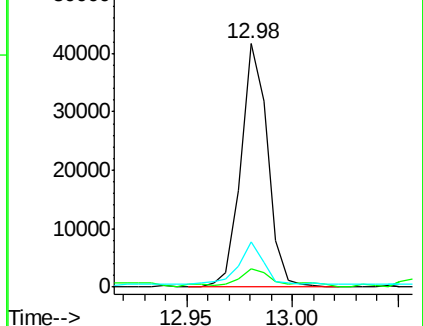
122 18.4 11.0 16.4#

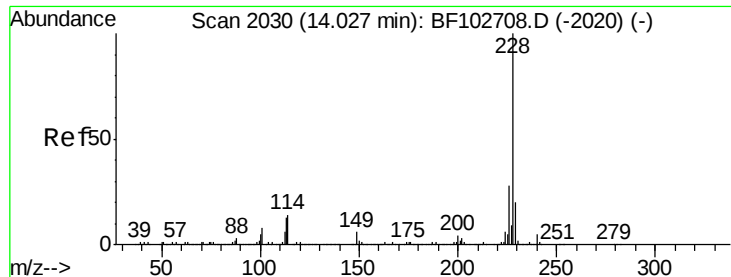


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





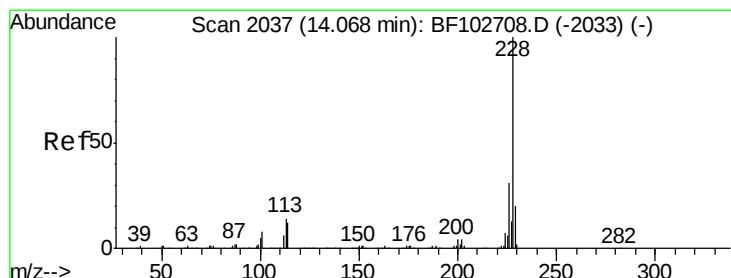
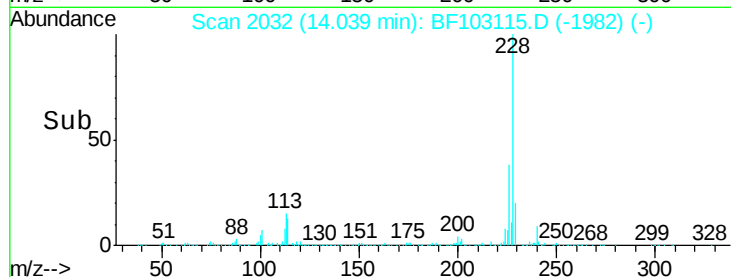
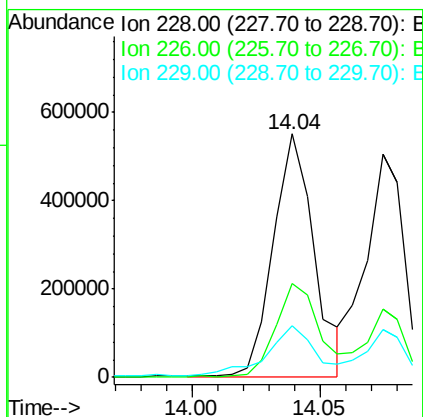
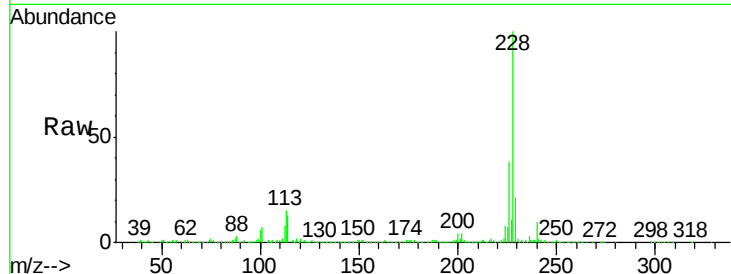
#80
Benzo(a)anthracene
Concen: 32.772 ng m
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Instrument :
BNA_F
ClientSampleId :
A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	38.4	22.6	33.8#
229	21.1	15.8	23.6

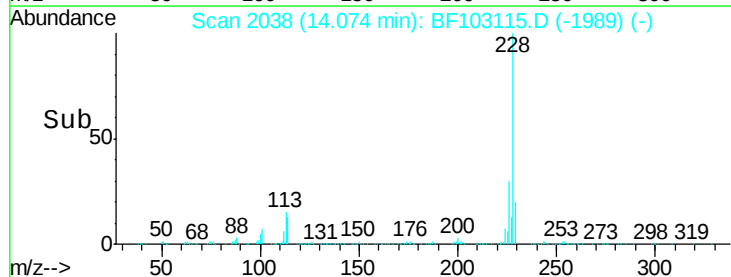
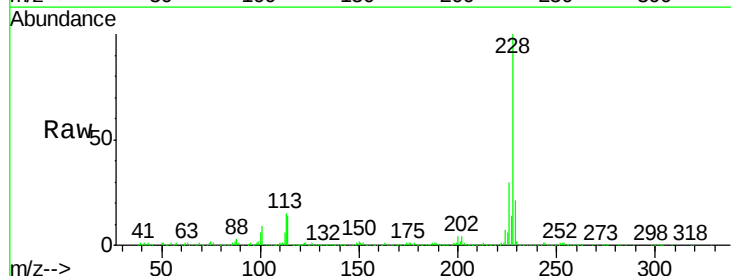
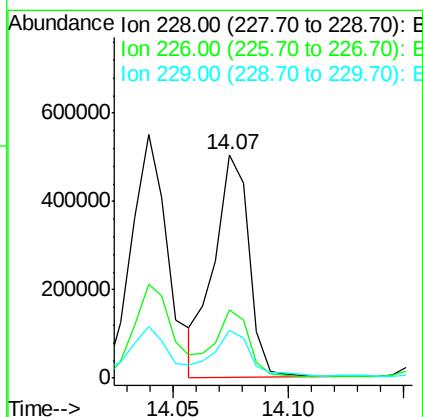
Manual Integrations
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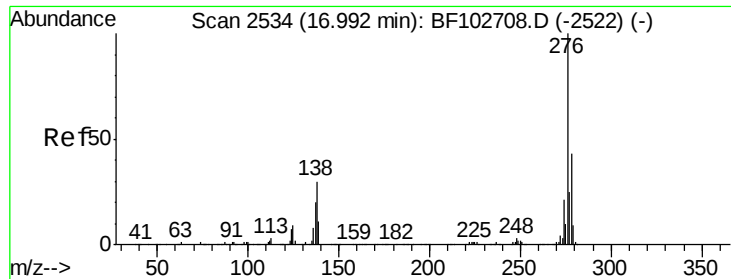
Sohil
2/21/2018 10:10:25 AM



#82
Chrysene
Concen: 28.139 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	21.5	16.2	24.4





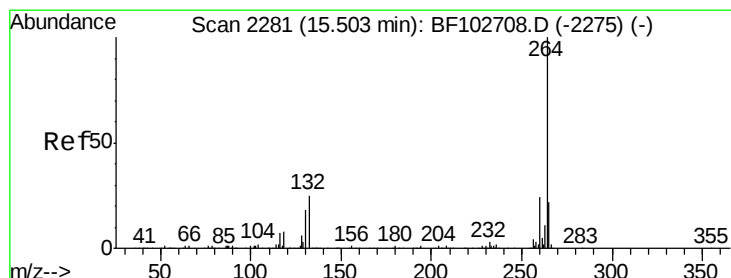
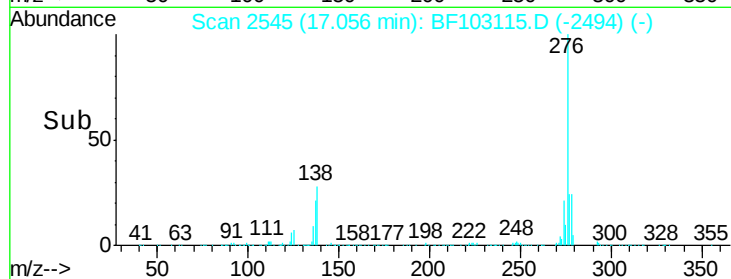
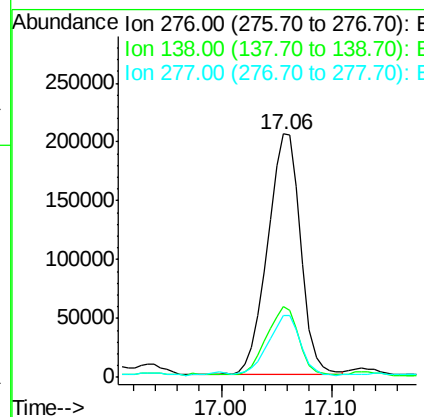
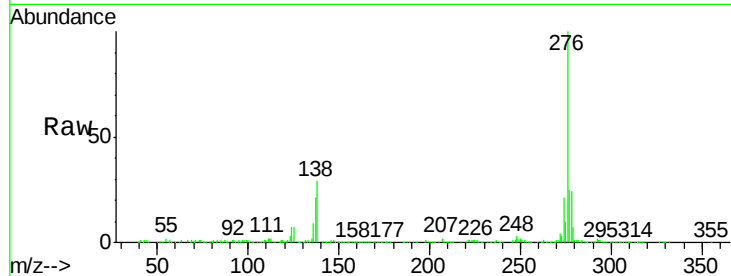
#85
Indeno(1,2,3-cd)pyrene
Concen: 27.407 ng
RT: 17.06 min Scan# 2545
Delta R.T. 0.00 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Instrument :
BNA_F
ClientSampleId :
A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.0	25.0	37.6
277	24.1	20.1	30.1

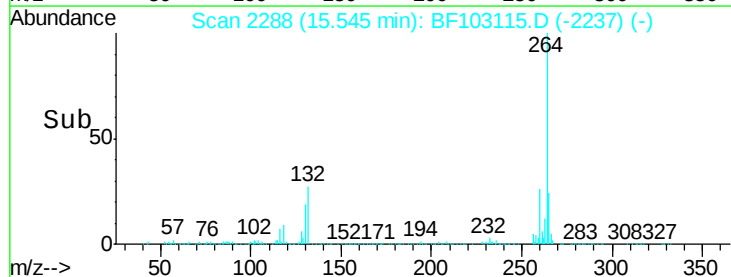
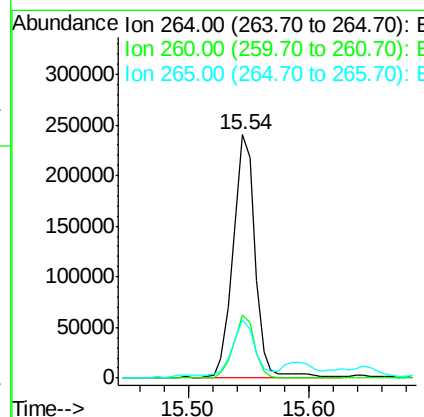
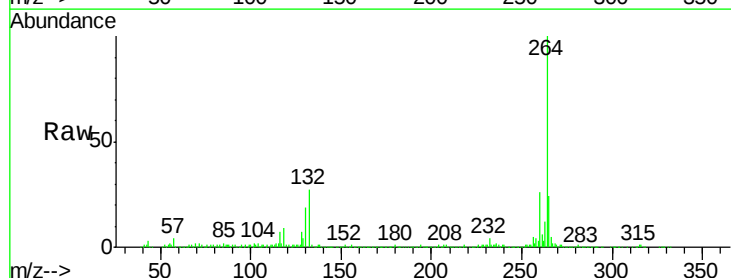
Manual Integrations
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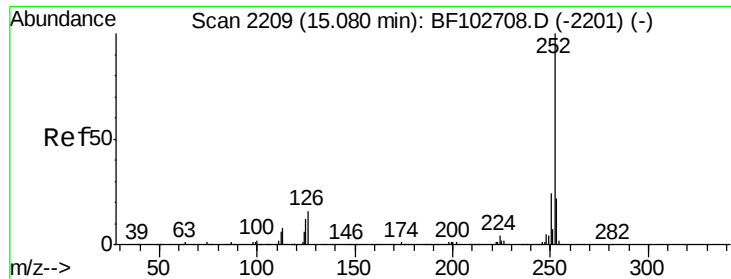
Sohil
2/21/2018 10:10:25 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2288
Delta R.T. 0.00 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.8	19.2	28.8
265	24.0	17.5	26.3





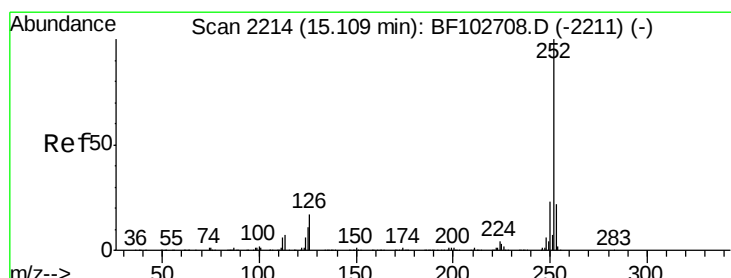
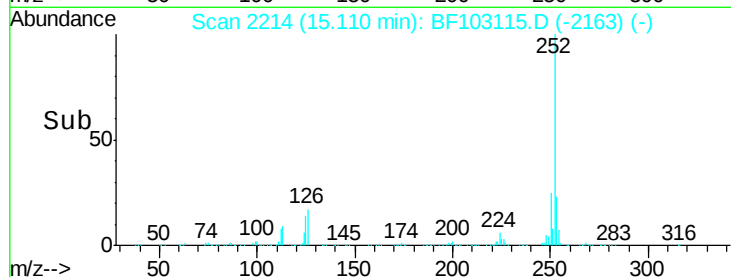
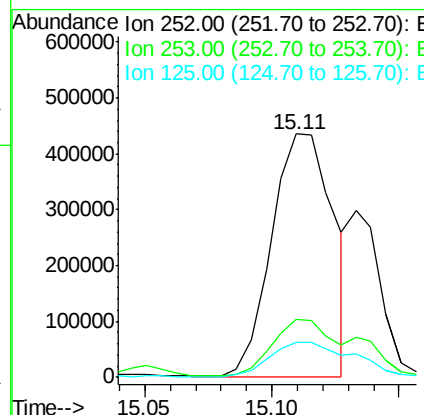
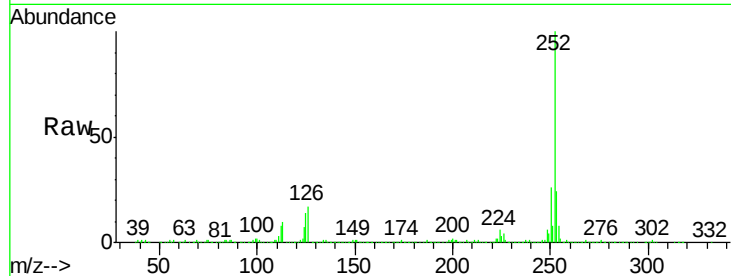
#87
Benzo(b)fluoranthene
Concen: 37.614 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.00 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Instrument :
BNA_F
ClientSampleId :
A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.0	25.6
125	14.4	9.0	13.6

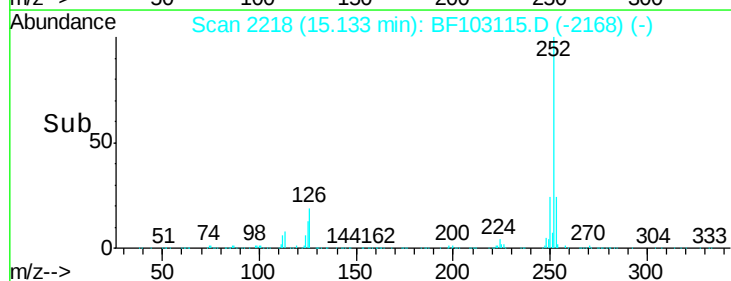
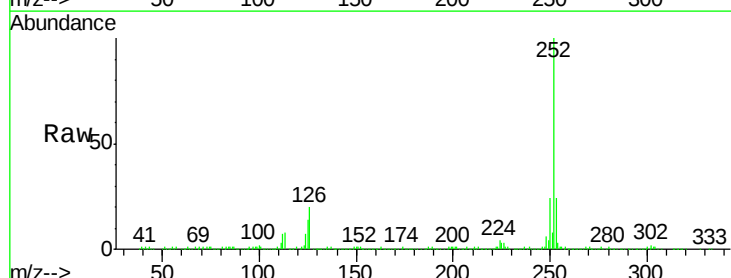
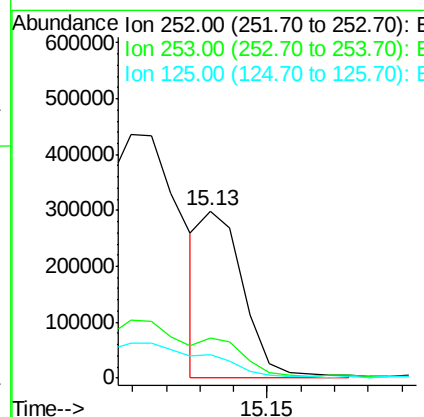
Manual Integrations
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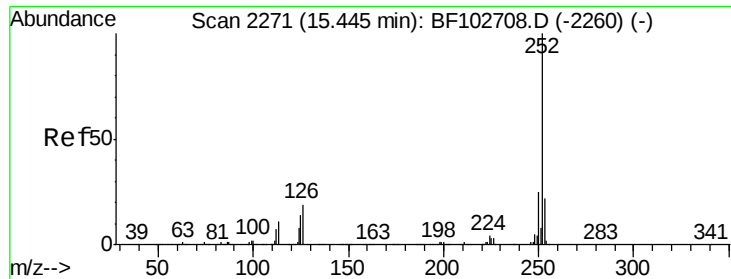
Sohil
2/21/2018 10:10:25 AM



#88
Benzo(k)fluoranthene
Concen: 13.790 ng m
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	13.8	10.2	15.2





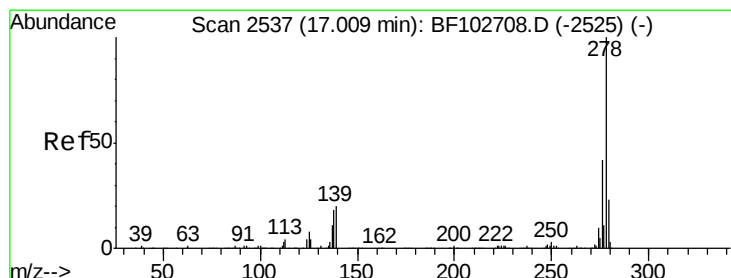
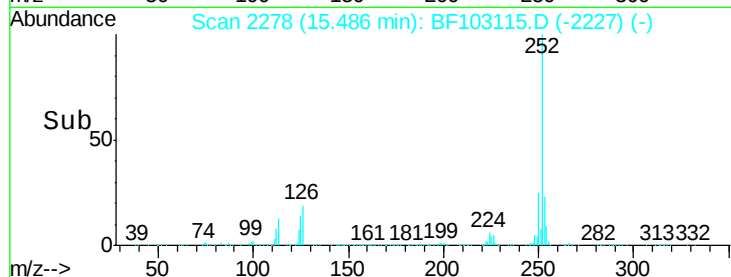
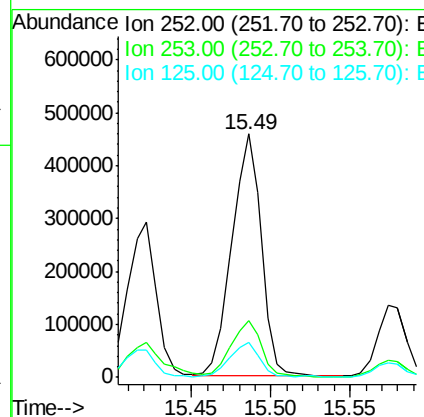
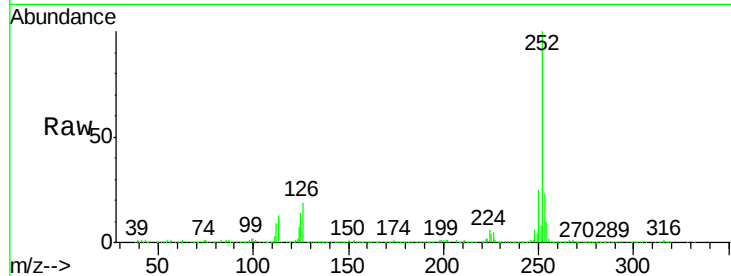
#89
Benzo(a)pyrene
Concen: 33.199 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.00 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Instrument :
BNA_F
ClientSampleId :
A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	14.4	9.8	14.6

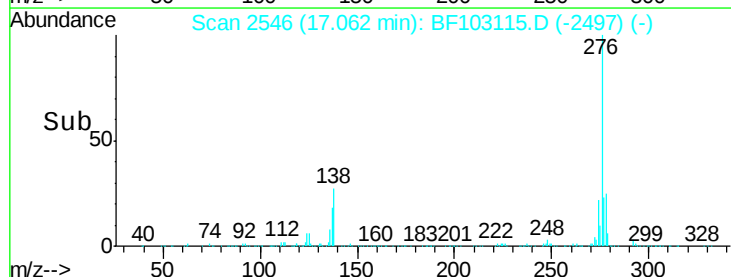
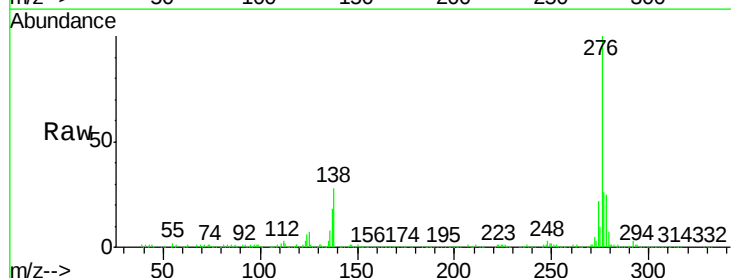
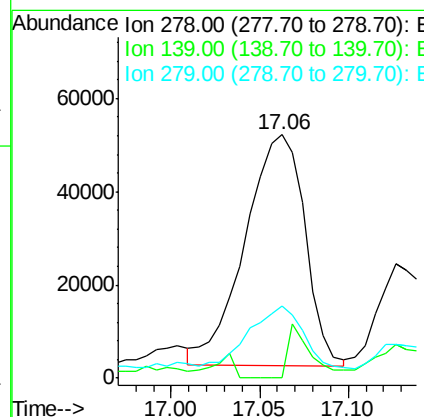
Manual Integrations
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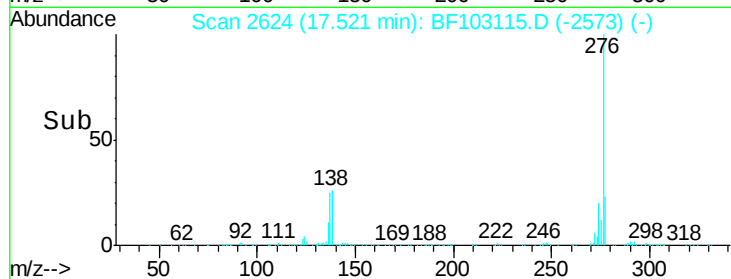
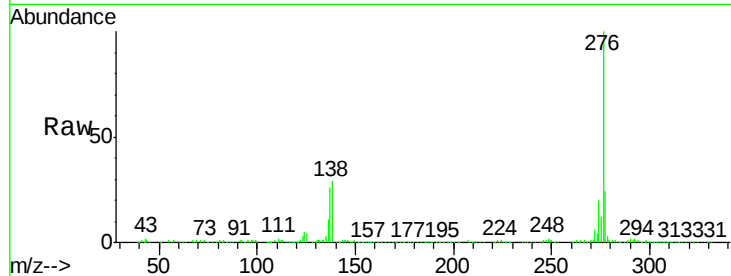
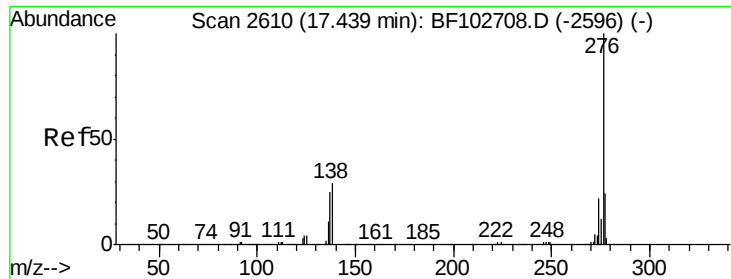
Sohil
2/21/2018 10:10:25 AM



#90
Dibenzo(a,h)anthracene
Concen: 8.094 ng m
RT: 17.06 min Scan# 2546
Delta R.T. -0.01 min
Lab File: BF103115.D
Acq: 20 Feb 2018 10:34

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	29.5	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 31.131 ng
 RT: 17.52 min Scan# 2624
 Delta R.T. 0.00 min
 Lab File: BF103115.D
 Acq: 20 Feb 2018 10:34

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_N_8DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	28.7	21.8	32.8

Manual Integrations
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Sohil
 2/21/2018 10:10:25 AM

