

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
 Data File : BF103968.D
 Acq On : 27 Mar 2018 11:11
 Operator : JU/SJ
 Sample : J2049-01DL 100X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB17 W 8DL

Manual Integrations
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Sohil
 3/27/2018 2:16:33 PM

Quant Time: Mar 27 13:00:43 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	132709	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	531123	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	244160	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	395133	20.00	ng	0.00
75) Chrysene-d12	14.16	240	255316	20.00	ng	0.00
86) Perylene-d12	15.71	264	235624	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.59	112	6620	0.76	ng	0.00
7) Phenol-d6	6.59	99	9868m	0.92	ng	-0.01
23) Nitrobenzene-d5	7.53	82	6337	0.83	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	1963	0.94	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	11876	0.78	ng	0.00
78) Terphenyl-d14	13.09	244	9421	0.86	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.28	128	1660964	61.908	ng	99
37) 2-Methylnaphthalene	8.97	142	644302	37.869	ng	99
45) 1,1'-Biphenyl	9.43	154	128721	6.322	ng	98
48) Acenaphthylene	9.87	152	108002	4.307	ng	# 92
51) Acenaphthene	10.05	154	405235	27.217	ng	100
54) Dibenzofuran	10.22	168	77903	3.663	ng	# 84
57) Fluorene	10.56	166	352305	21.350	ng	99
70) Phenanthrene	11.54	178	1323477	61.230	ng	99
71) Anthracene	11.59	178	471324	21.470	ng	98
72) Carbazole	11.73	167	47535	2.228	ng	99
74) Fluoranthene	12.73	202	641342	28.801	ng	99
77) Pyrene	12.96	202	844578	45.044	ng	99
80) Benzo(a)anthracene	14.15	228	264648m	16.375	ng	
82) Chrysene	14.19	228	216212	14.034	ng	99
85) Indeno(1,2,3-cd)pyrene	17.29	276	69483	5.165	ng	96
87) Benzo(b)fluoranthene	15.25	252	194382m	13.058	ng	
88) Benzo(k)fluoranthene	15.27	252	61964m	4.330	ng	
89) Benzo(a)pyrene	15.64	252	192435	14.252	ng	98
91) Benzo(a,h,i)perylene	17.77	276	70452	6.194	ng	97

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

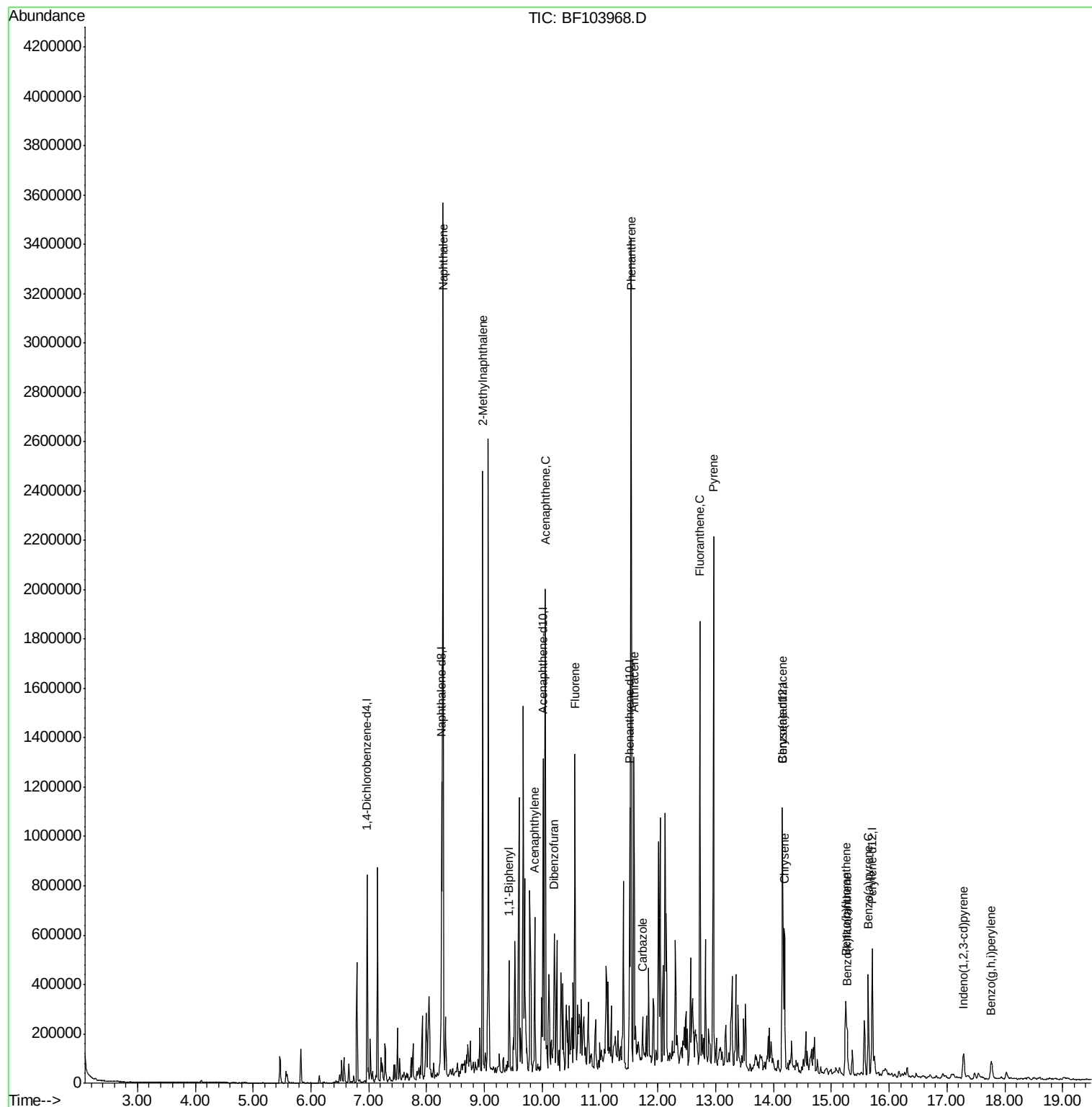
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103968.D
Acq On : 27 Mar 2018 11:11
Operator : JU/SJ
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Misc :
ALS Vial : 39 Sample Multiplier: 1

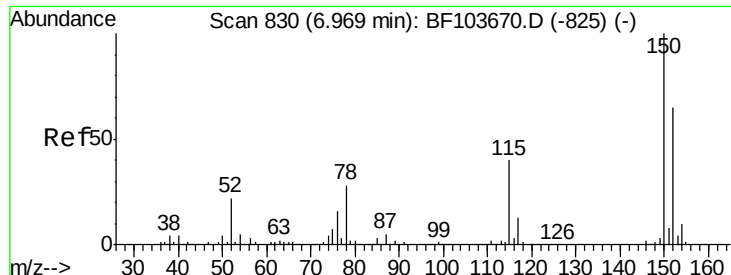
Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

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Quant Time: Mar 27 13:00:43 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

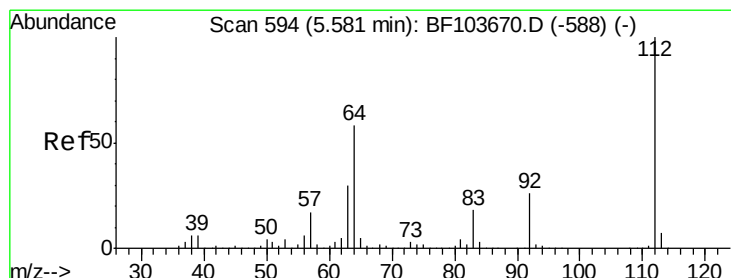
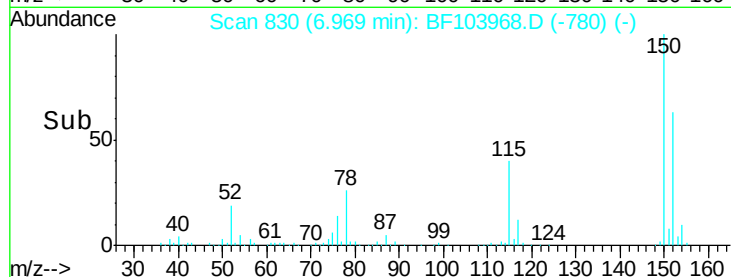
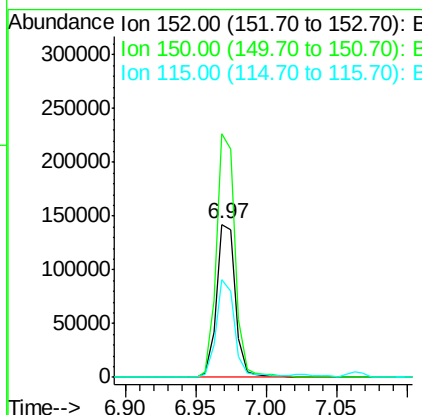
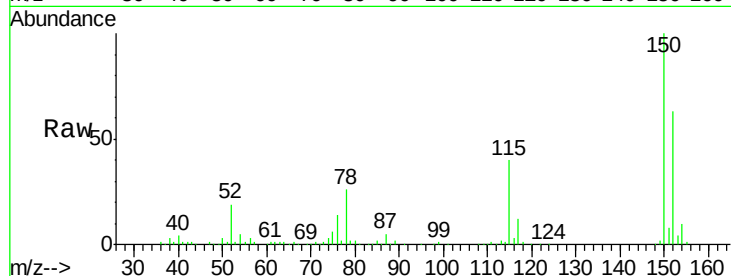
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. -0.01 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	124.6	186.8
115	63.7	50.1	75.1

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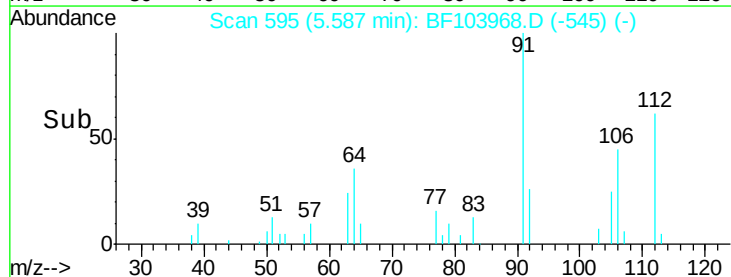
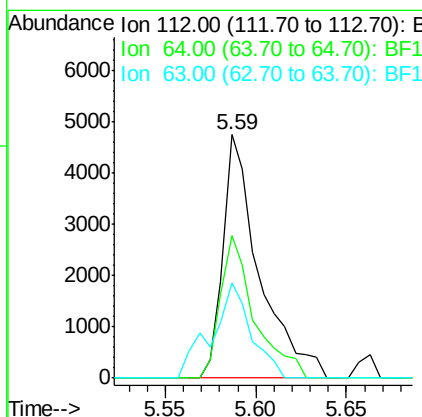
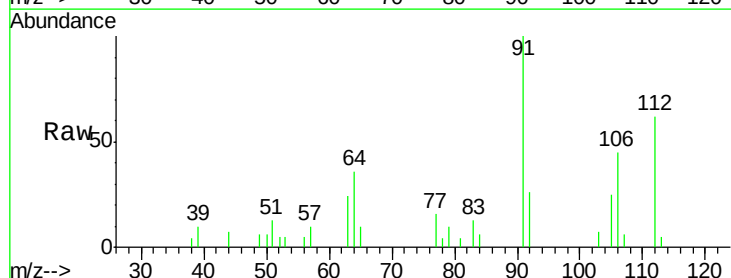
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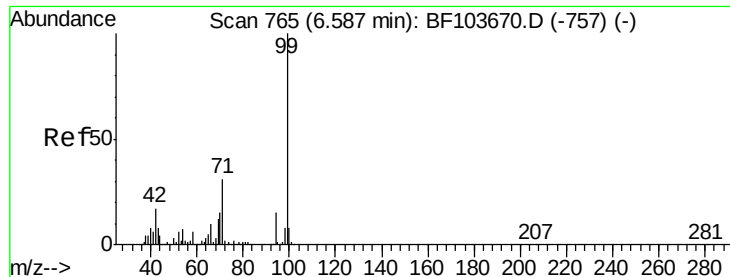


#5

2-Fluorophenol
Concen: 0.759 ng
RT: 5.59 min Scan# 595
Delta R.T. -0.01 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	47.9	71.9
63	39.2	23.7	35.5





#7

Phenol-d6

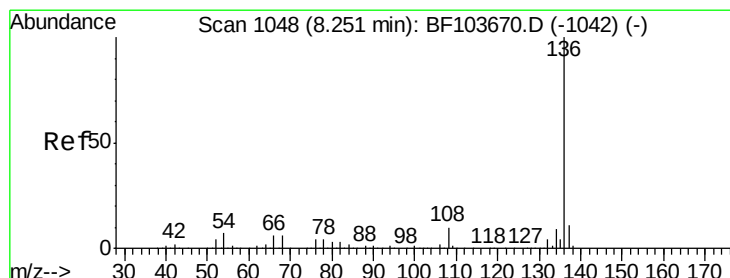
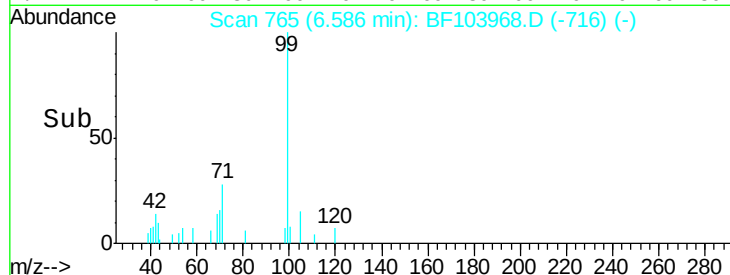
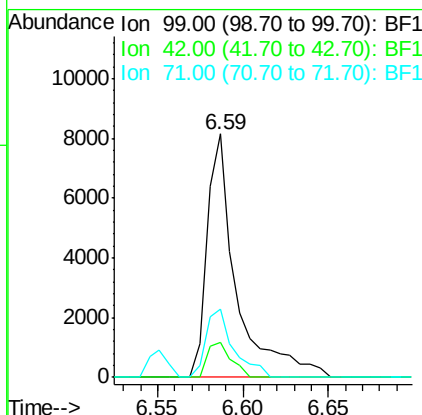
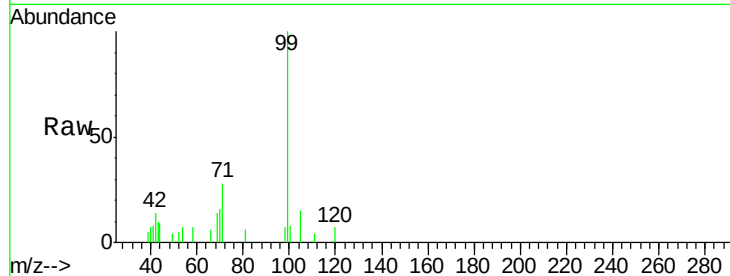
Concen: 0.924 ng/mL
 RT: 6.59 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion	Ion	Ratio	Lower	Upper
99	99	100		
42	42	14.3	14.5	21.7#
71	71	27.9	25.4	38.0

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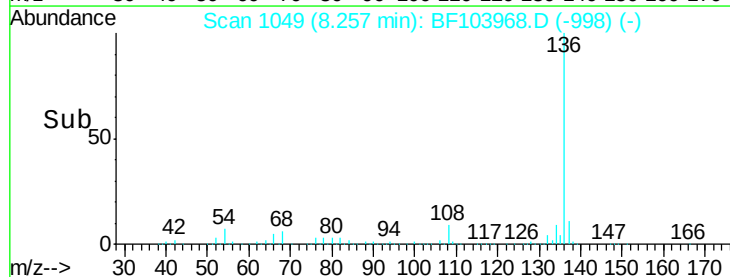
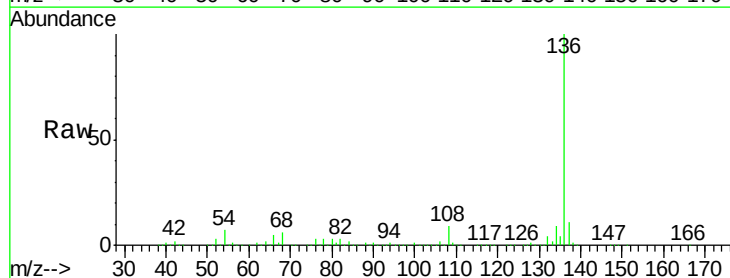
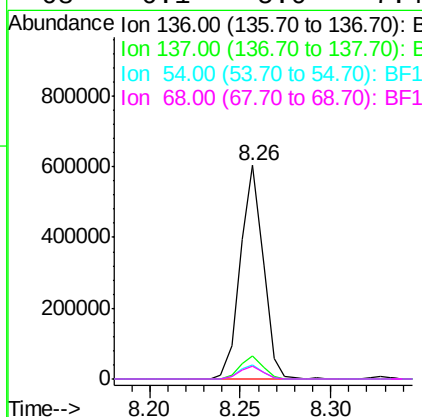


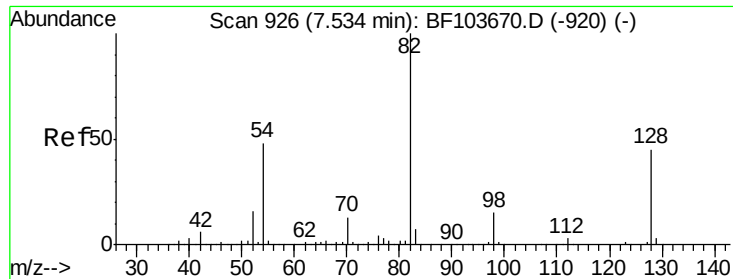
#21

Naphthalene-d8

Concen: 20.000 ng
 RT: 8.26 min Scan# 1049
 Delta R.T. -0.00 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Tgt Ion	Ion	Ratio	Lower	Upper
136	136	100		
137	137	11.1	8.9	13.3
54	54	6.5	6.6	9.8#
68	68	6.1	5.0	7.4





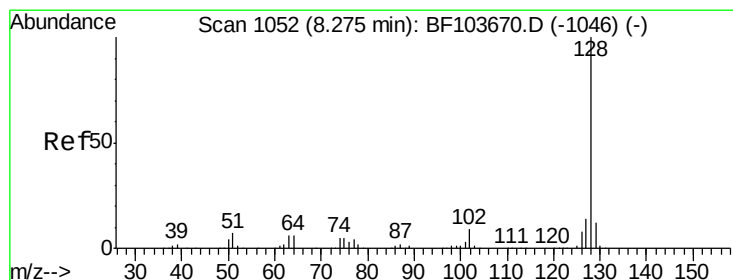
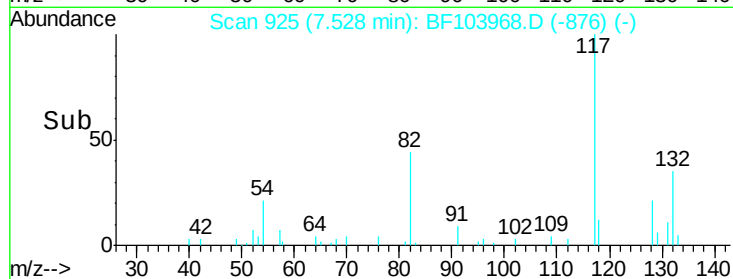
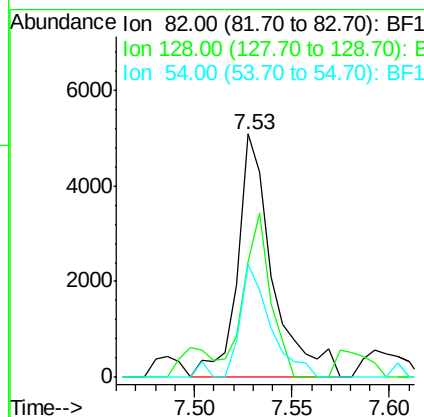
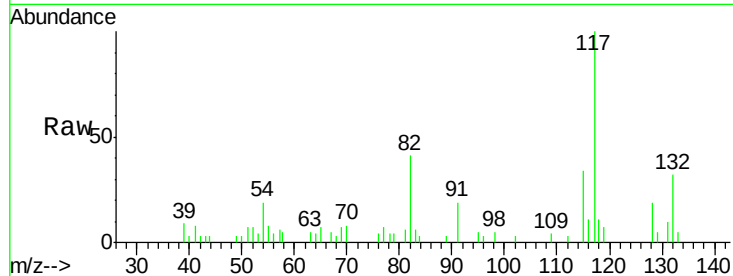
#23
Nitrobenzene-d5
Concen: 0.832 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.4	36.1	54.1
54	46.4	41.4	62.2

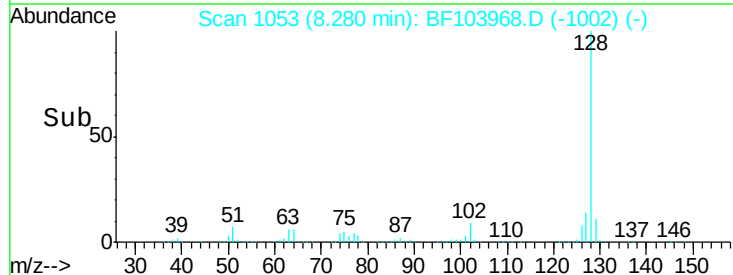
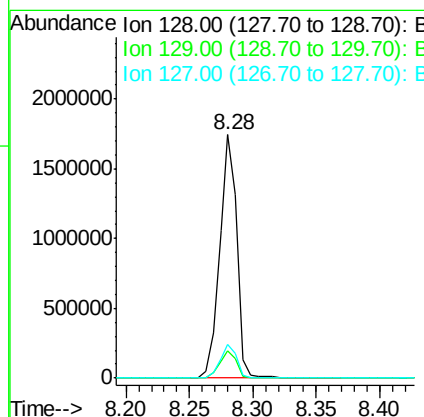
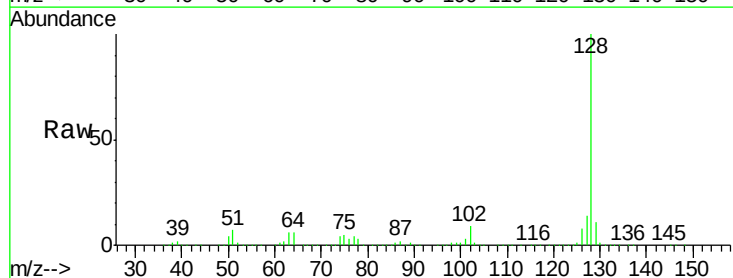
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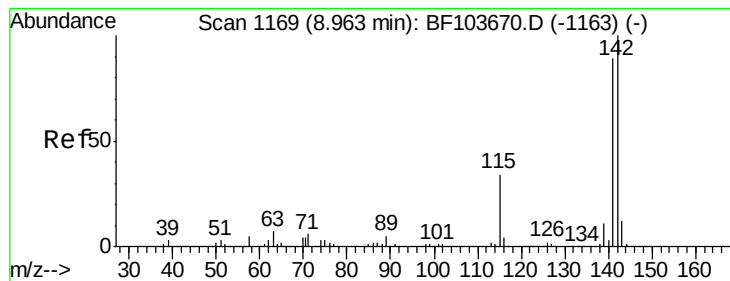
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#31
Naphthalene
Concen: 61.908 ng
RT: 8.28 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.8	10.9	16.3





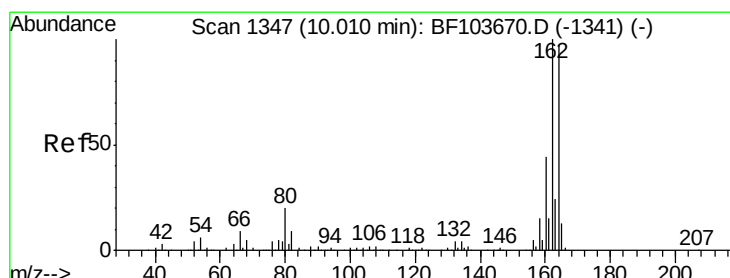
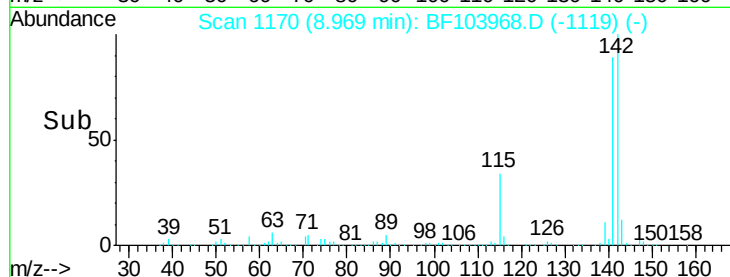
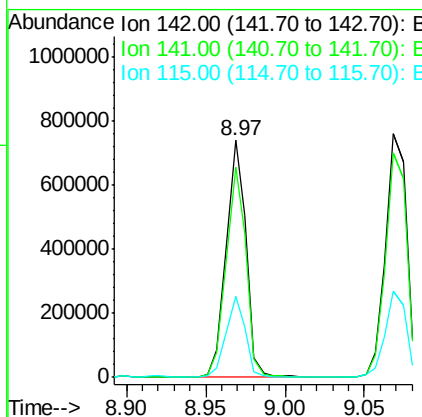
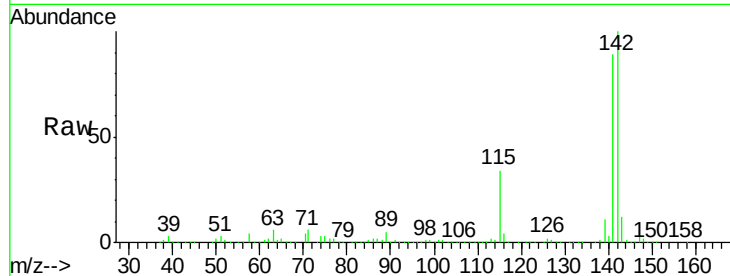
#37
 2-Methylnaphthalene
 Concen: 37.869 ng
 RT: 8.97 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion:	142	Resp:	644302
Ion Ratio	Lower	Upper	
142	100		
141	88.8	70.8	106.2
115	34.1	26.1	39.1

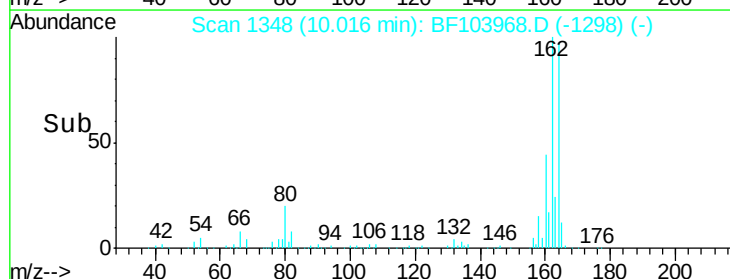
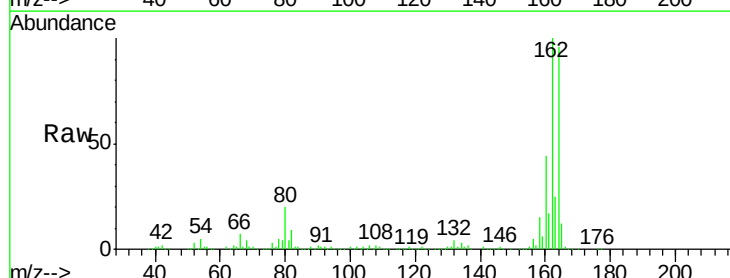
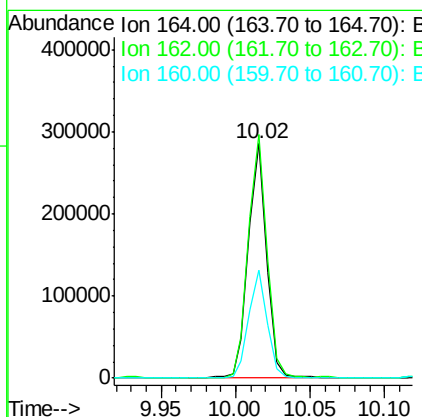
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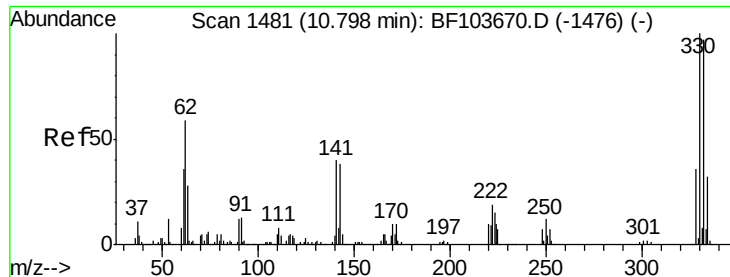
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.02 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Tgt Ion:	164	Resp:	244160
Ion Ratio	Lower	Upper	
164	100		
162	103.9	86.1	129.1
160	45.8	38.3	57.5





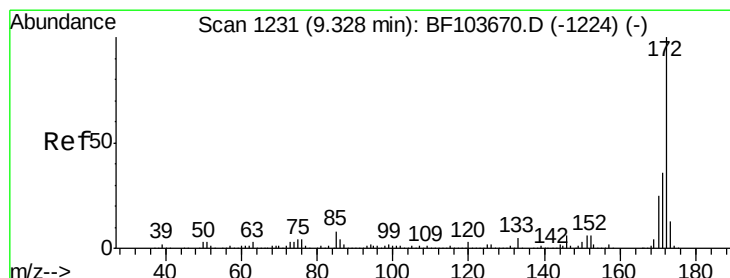
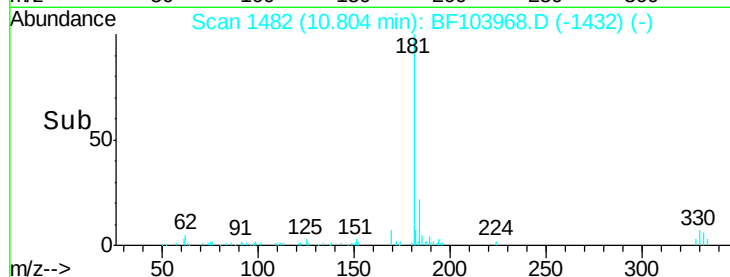
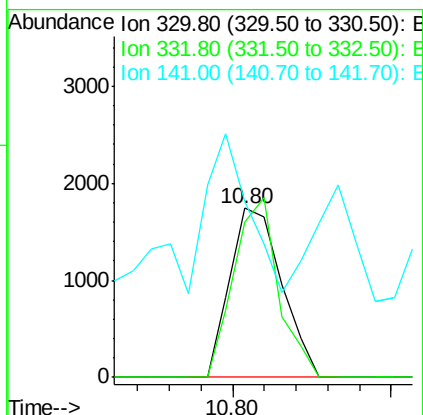
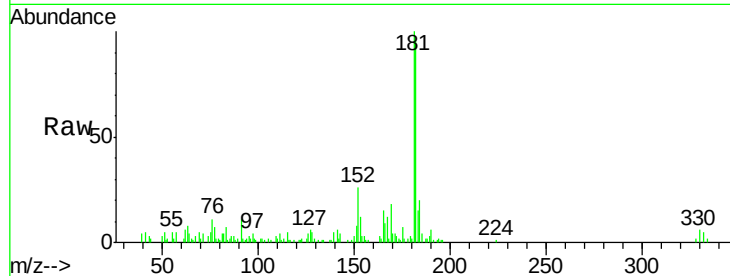
#41
 2,4,6-Tribromophenol
 Concen: 0.935 ng
 RT: 10.80 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	91.4	77.0	115.6
141	142.2	29.9	44.9#

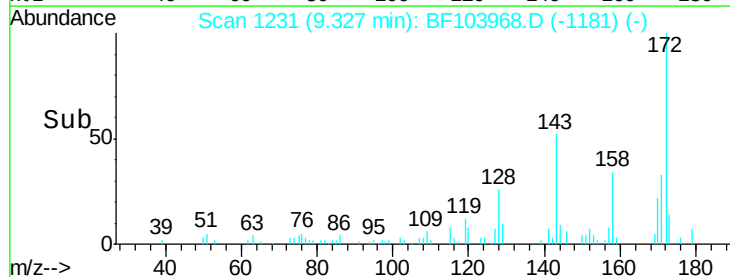
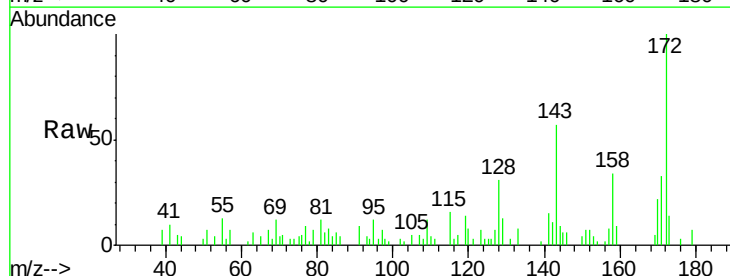
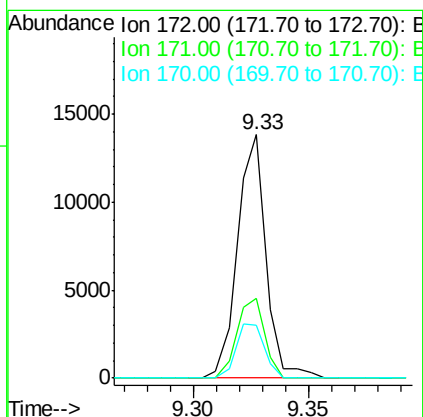
Manual Integrations
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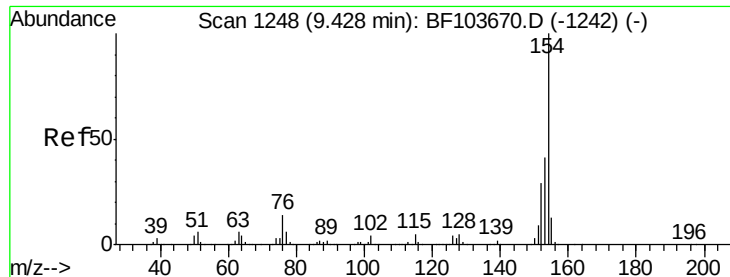
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#44
 2-Fluorobiphenyl
 Concen: 0.776 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.8	29.7	44.5
170	21.5	19.6	29.4





#45

1,1'-Biphenyl

Concen: 6.322 ng

RT: 9.43 min Scan# 1248

Delta R.T. -0.01 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Instrument :

BNA_F

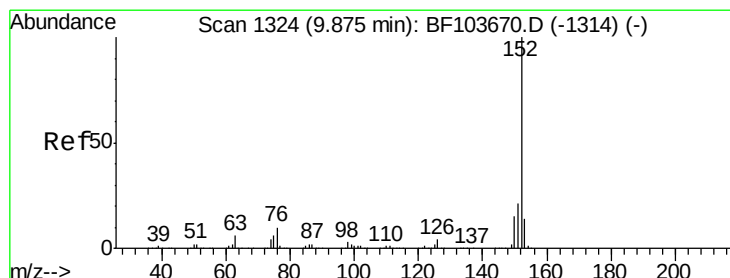
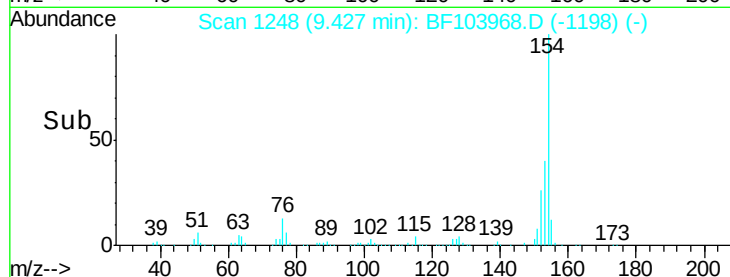
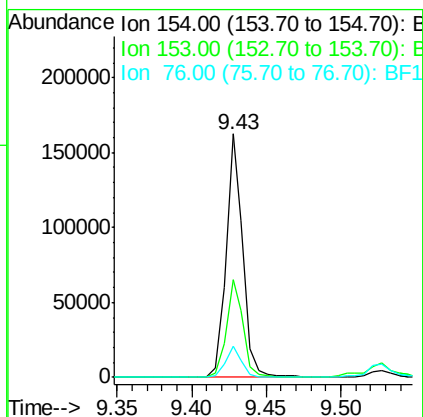
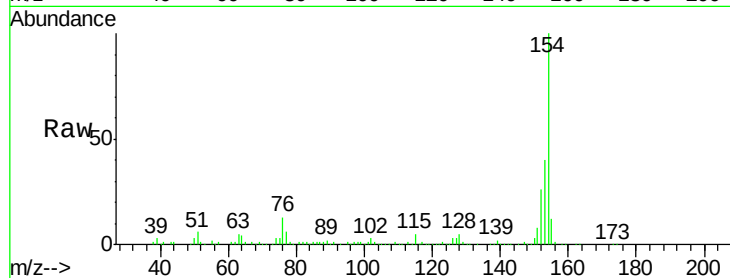
ClientSampleId :

A2_SB17_W_8DL

Tot Ion:	154	Resp:	128721
Ion Ratio	Lower	Upper	
154	100		
153	39.9	21.3	61.3
76	13.0	0.0	34.0

Manual Integrations
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#48

Acenaphthylene

Concen: 4.307 ng

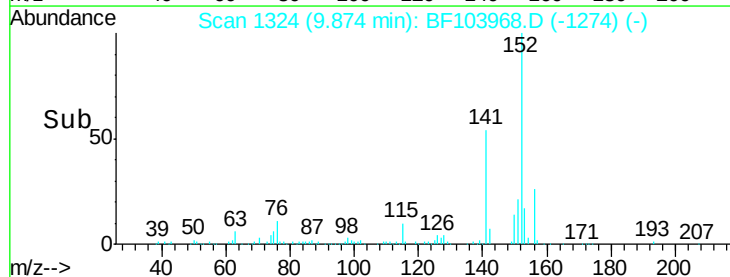
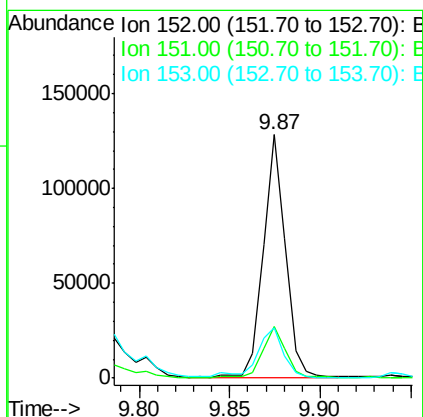
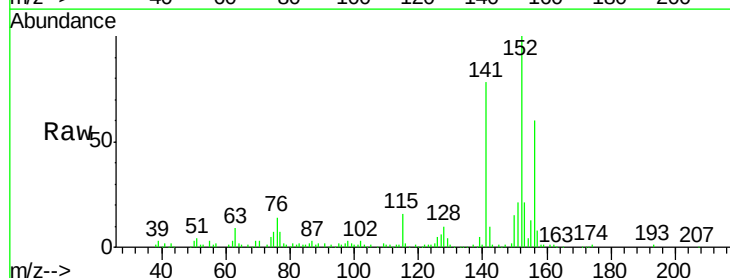
RT: 9.87 min Scan# 1324

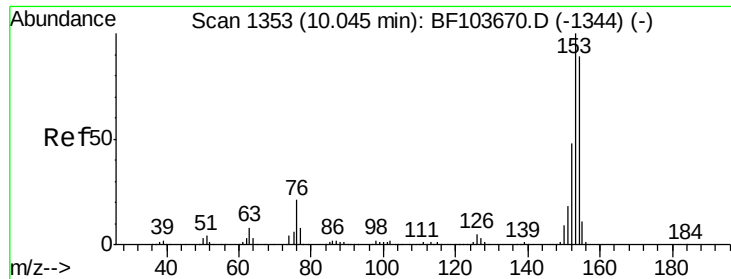
Delta R.T. -0.01 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Tgt Ion:	152	Resp:	108002
Ion Ratio	Lower	Upper	
152	100		
151	21.1	16.3	24.5
153	20.5	10.7	16.1#





#51

Acenaphthene

Concen: 27.217 ng

RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Instrument :

BNA_F

ClientSampleId :

A2_SB17_W_8DL

Tot Ion:154 Resp: 405235

Ion Ratio Lower Upper

154 100

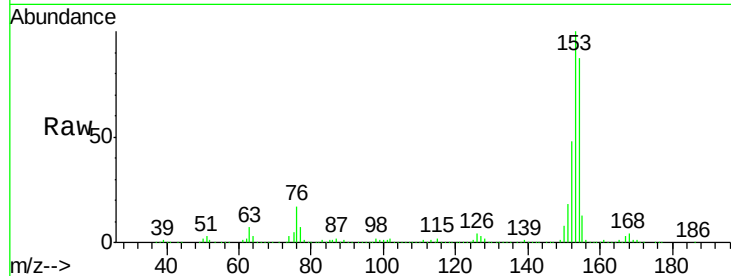
153 114.4 91.2 136.8

152 54.9 43.8 65.8

Manual Integrations
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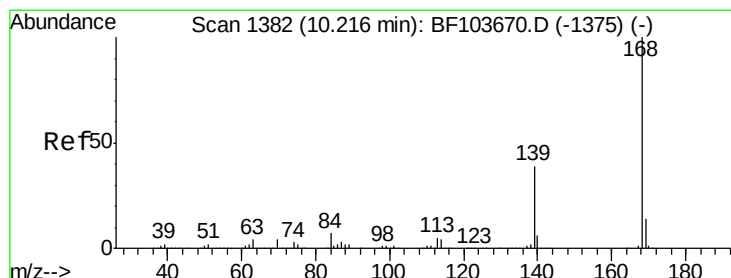
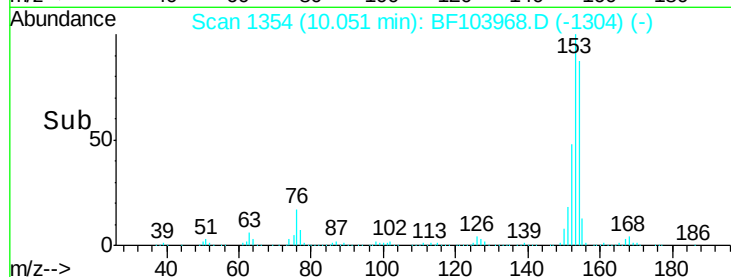
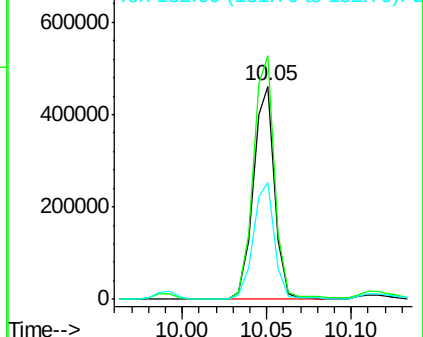
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.663 ng

RT: 10.22 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

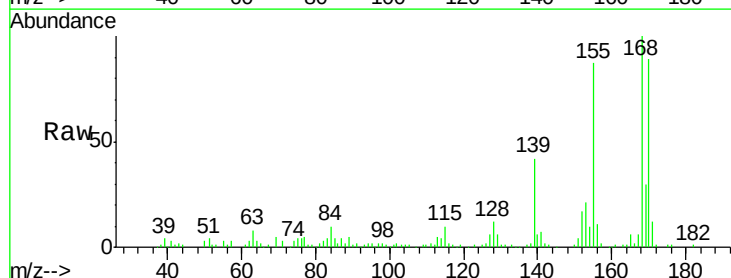
Tgt Ion:168 Resp: 77903

Ion Ratio Lower Upper

168 100

139 41.7 30.1 45.1

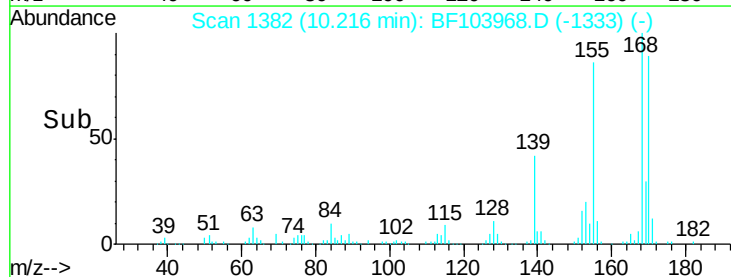
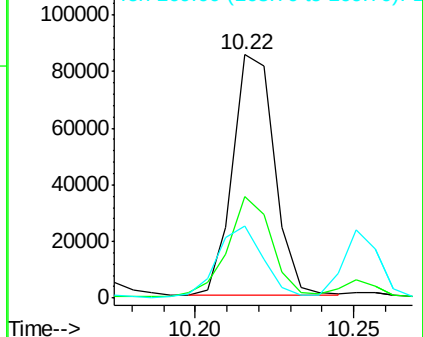
169 29.5 10.9 16.3#

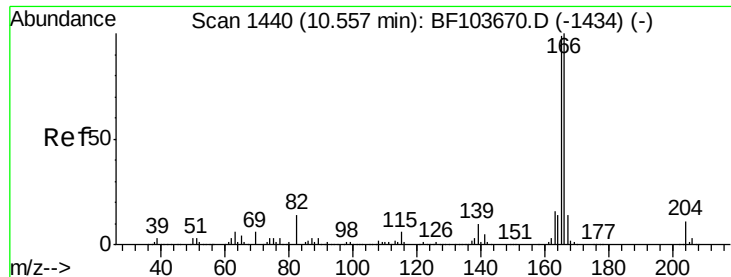


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





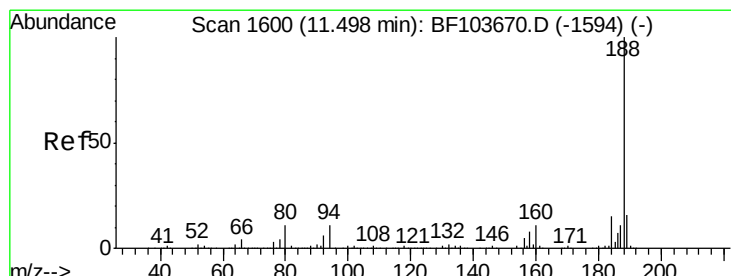
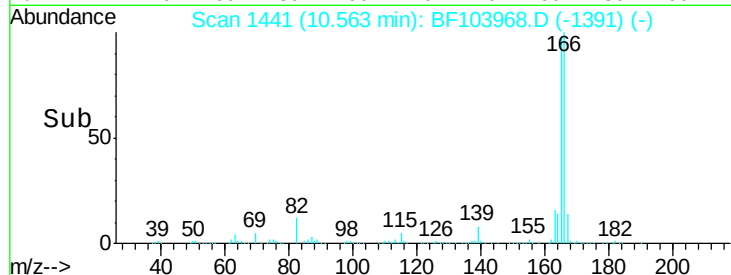
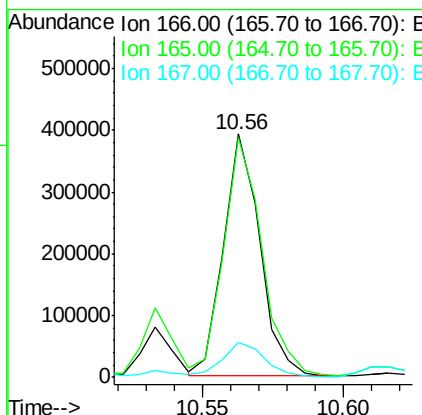
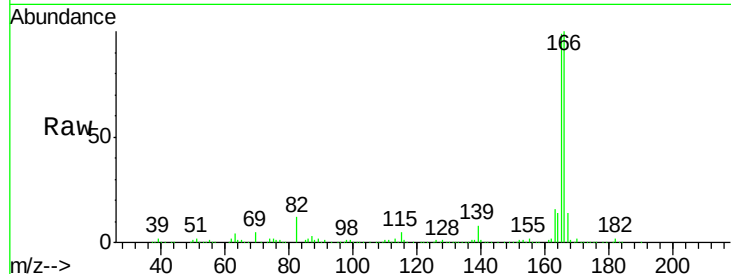
#57
Fluorene
 Concen: 21.350 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.8	119.8
167	14.4	10.6	16.0

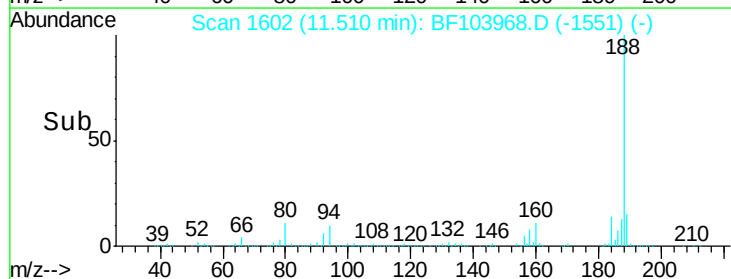
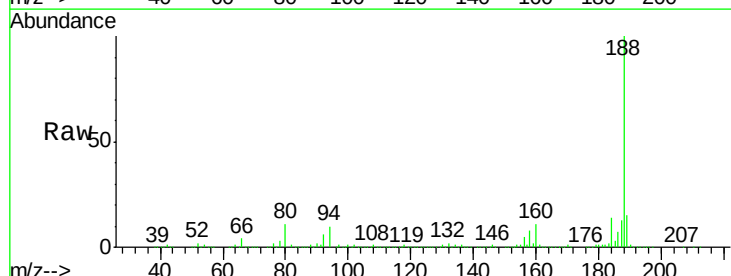
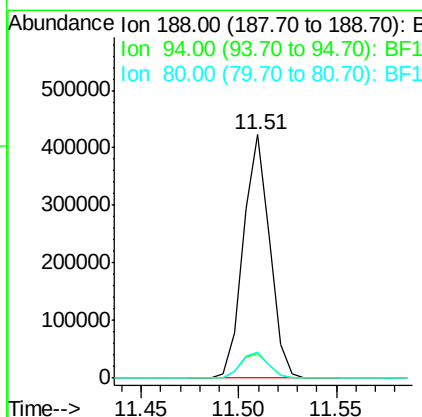
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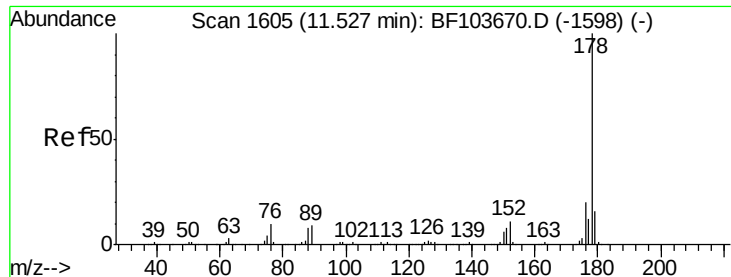
Sohil
 3/27/2018 2:16:33 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1602
 Delta R.T. -0.00 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.5	12.7
80	10.9	9.2	13.8





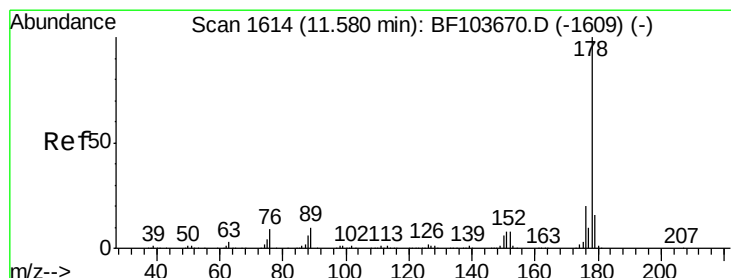
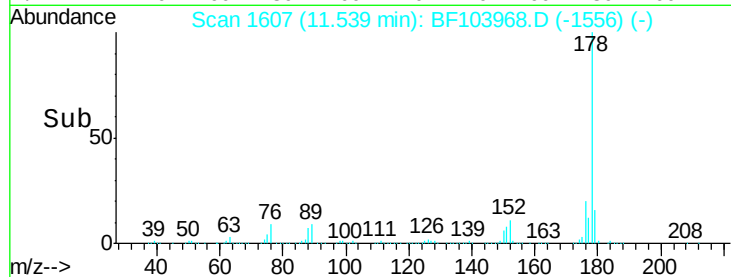
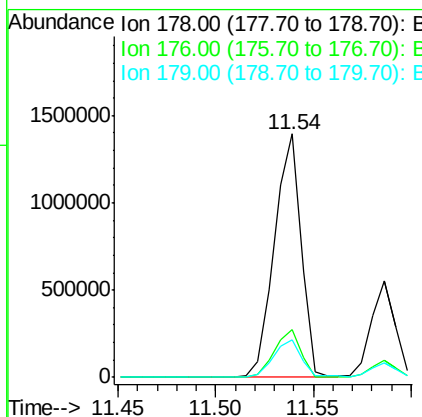
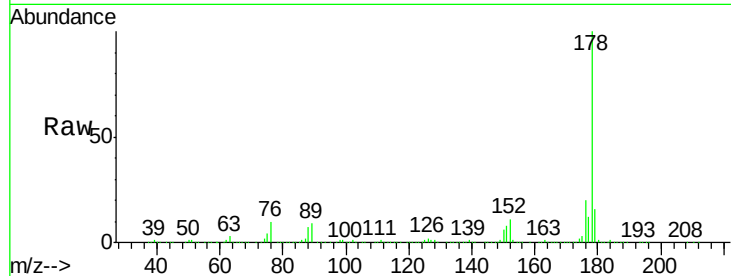
#70
Phenanthrene
Concen: 61.230 ng
RT: 11.54 min Scan# 1607
Delta R.T. -0.00 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion:178 Resp: 1323477
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.8
179 15.7 13.0 19.6

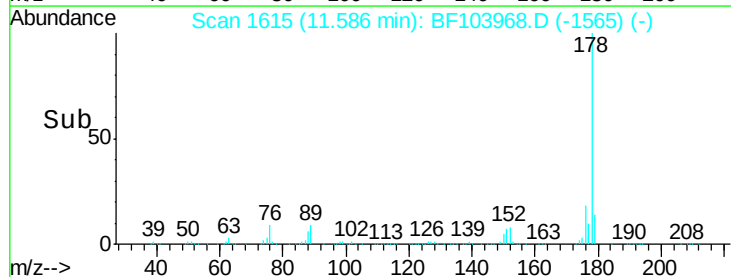
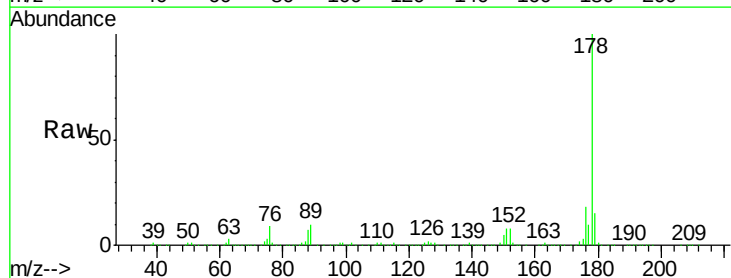
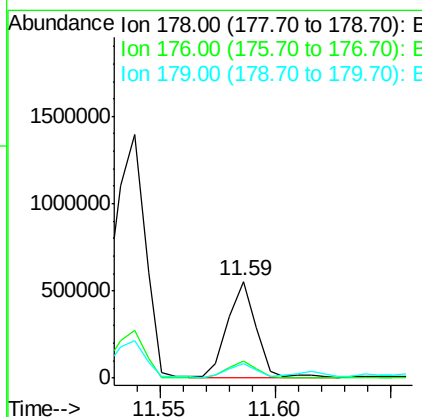
Manual Integrations
APPROVED

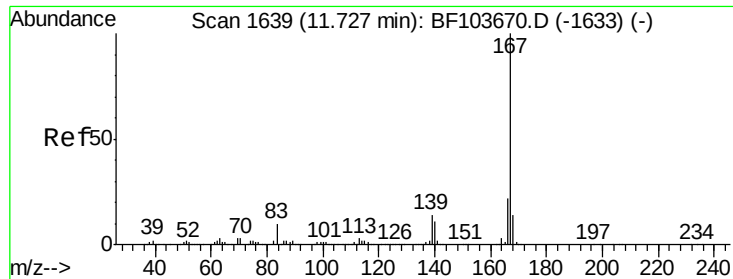
Sohil
3/27/2018 2:16:33 PM



#71
Anthracene
Concen: 21.470 ng
RT: 11.59 min Scan# 1615
Delta R.T. -0.01 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Tgt Ion:178 Resp: 471324
Ion Ratio Lower Upper
178 100
176 18.1 15.4 23.2
179 15.3 12.6 19.0





#72

Carbazole

Concen: 2.228 ng

RT: 11.73 min Scan# 1640

Delta R.T. -0.01 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Instrument :

BNA_F

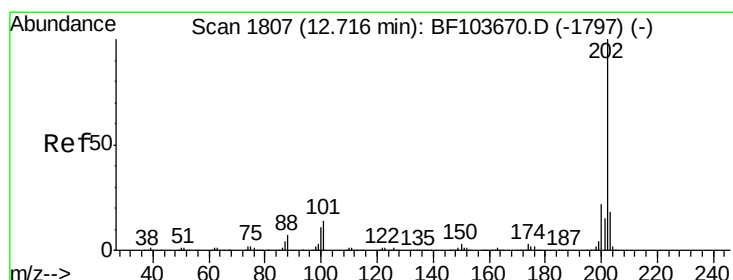
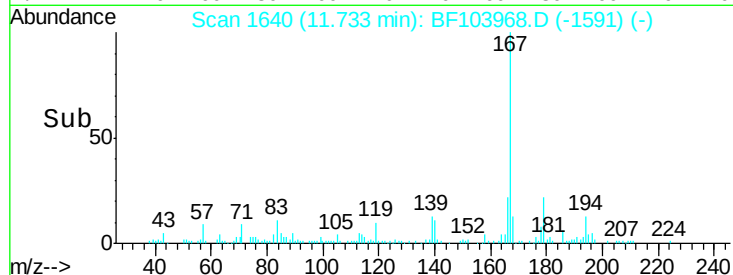
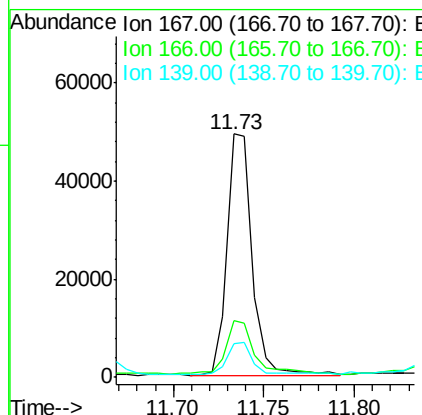
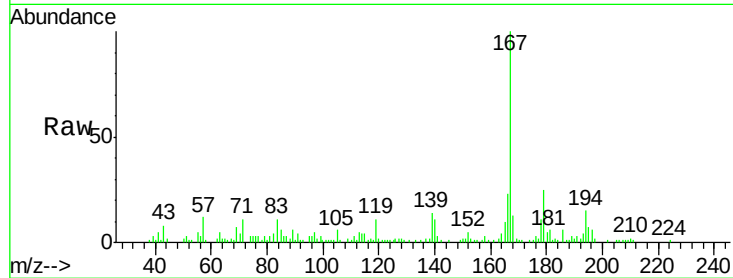
ClientSampleId :

A2_SB17_W_8DL

Tot Ion:	167	Resp:	47535
Ion Ratio	Lower	Upper	
167	100		
166	23.1	17.6	26.4
139	13.6	10.9	16.3

Manual Integrations
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3/27/2018 2:16:33 PM



#74

Fluoranthene

Concen: 28.801 ng

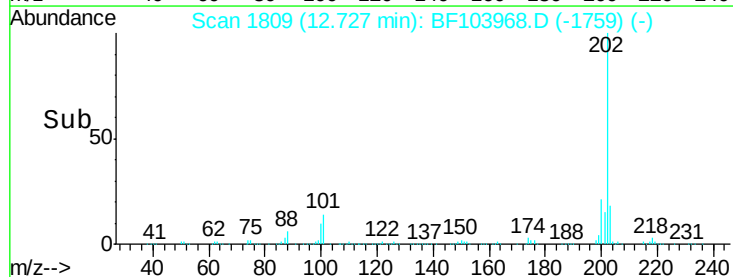
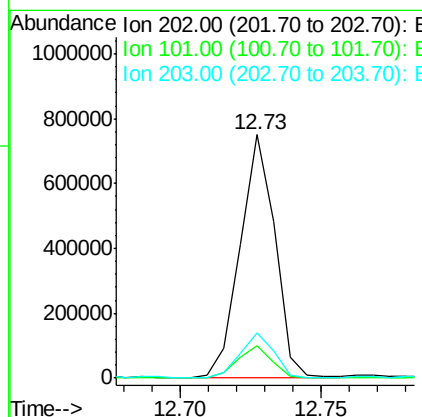
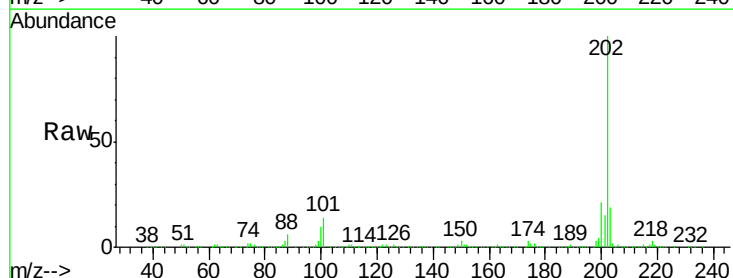
RT: 12.73 min Scan# 1809

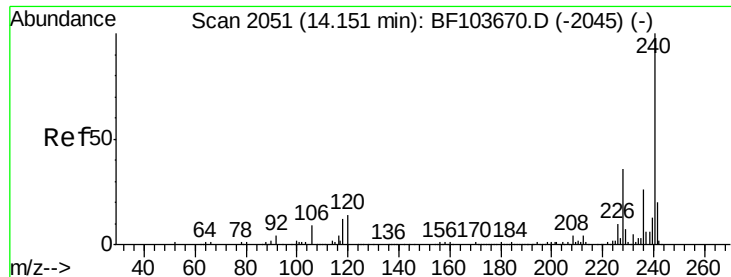
Delta R.T. -0.01 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Tgt Ion:	202	Resp:	641342
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	34.1
203	18.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2053

Delta R.T. -0.01 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Instrument :

BNA_F

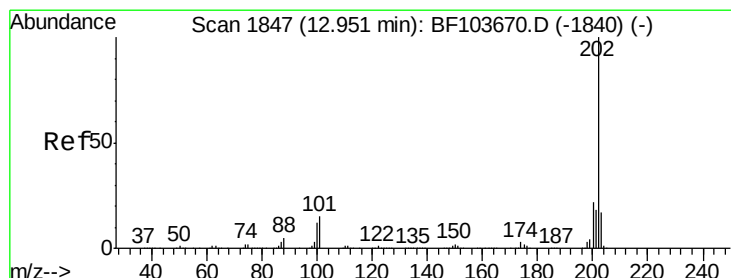
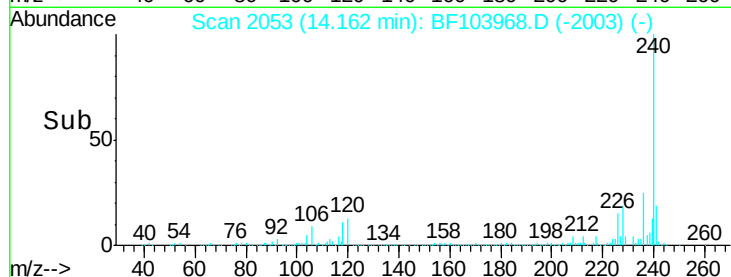
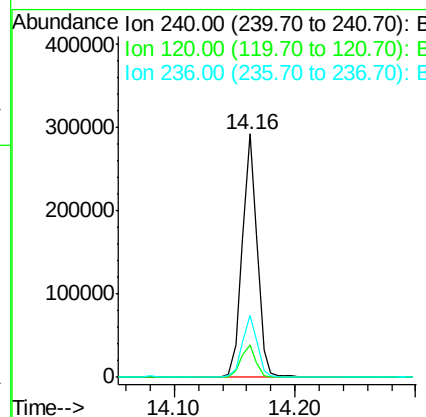
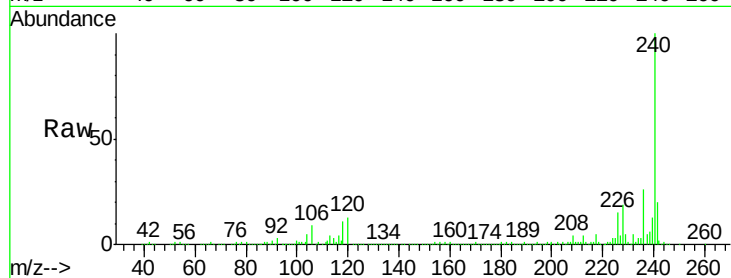
ClientSampleId :

A2_SB17_W_8DL

Tot Ion:	240	Resp:	255316
Ion Ratio	Lower	Upper	
240	100		
120	13.2	9.5	14.3
236	25.6	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 45.044 ng

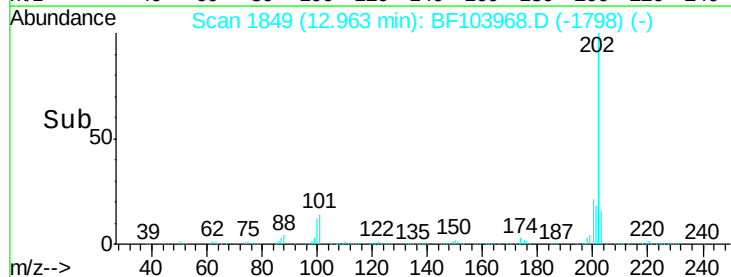
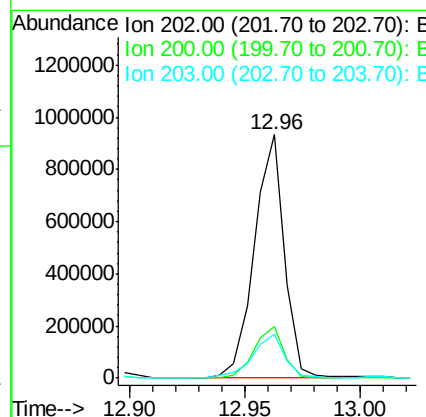
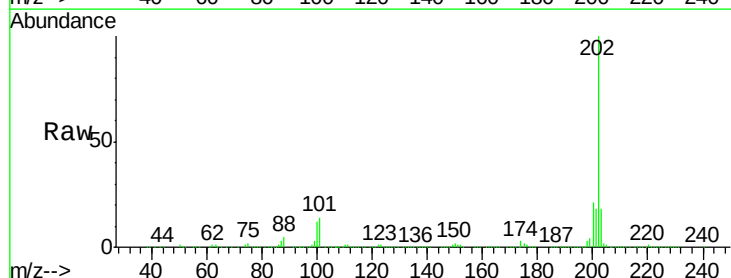
RT: 12.96 min Scan# 1849

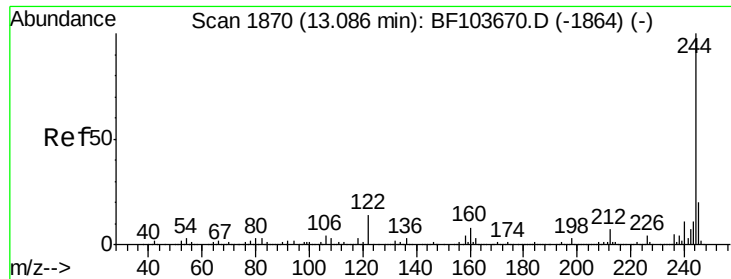
Delta R.T. -0.00 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Tgt Ion:	202	Resp:	844578
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.4	26.2
203	17.8	14.3	21.5





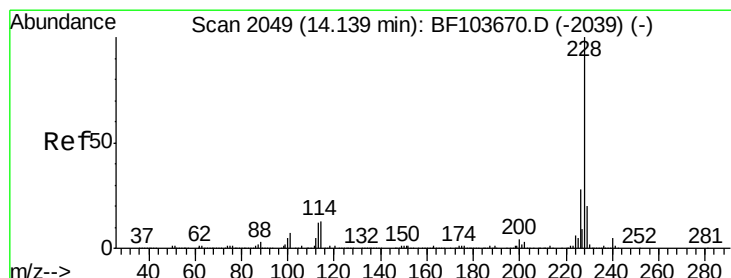
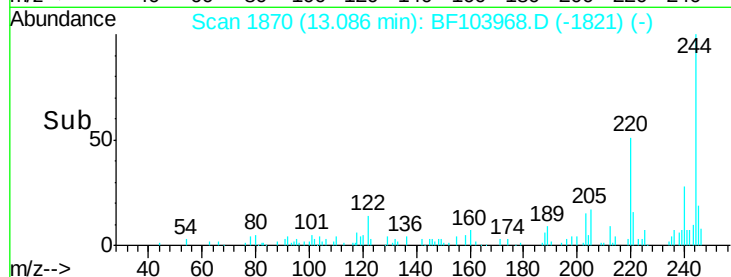
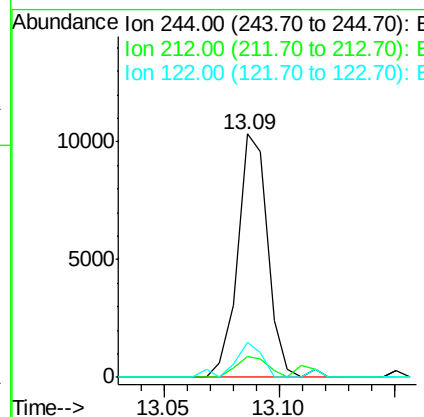
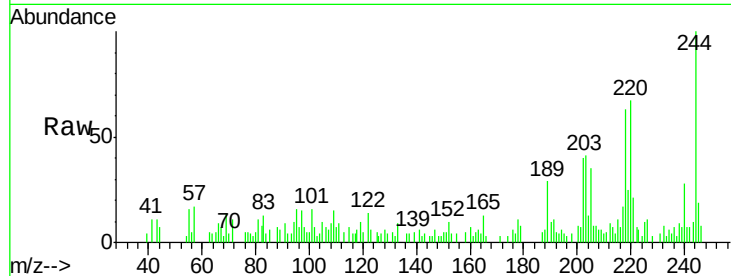
#78
 Terphenyl-d14
 Concen: 0.856 ng
 RT: 13.09 min Scan# 1870
 Delta R.T. -0.01 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.7	5.4	8.0#
122	14.4	11.0	16.4

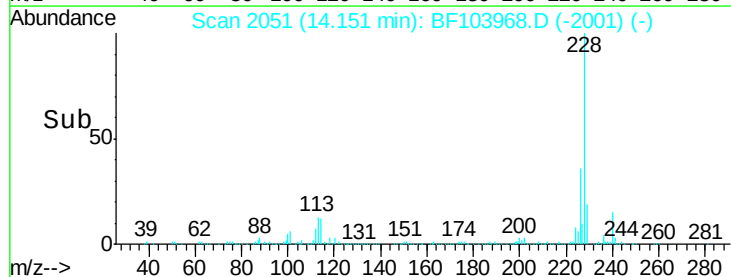
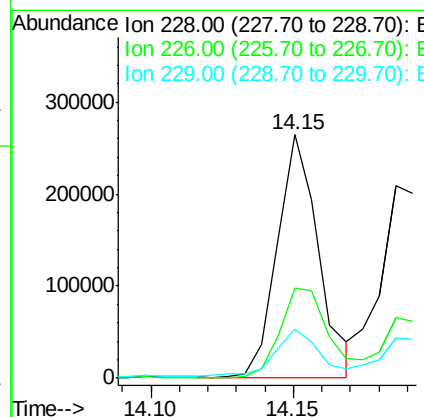
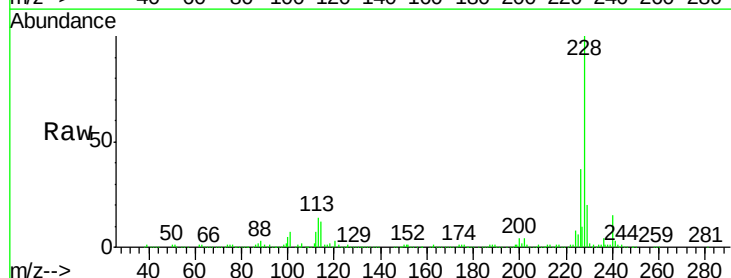
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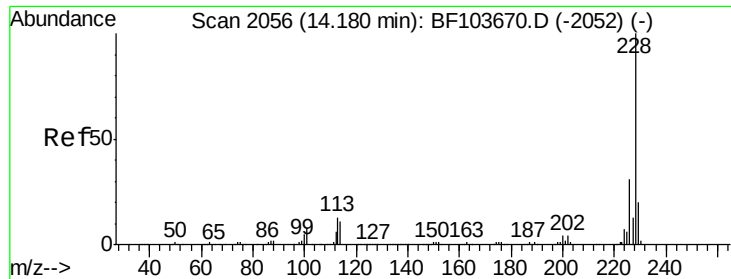
Sohil
 3/27/2018 2:16:33 PM



#80
 Benzo(a)anthracene
 Concen: 16.375 ng m
 RT: 14.15 min Scan# 2051
 Delta R.T. -0.01 min
 Lab File: BF103968.D
 Acq: 27 Mar 2018 11:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.8	22.6	33.8#
229	19.9	15.8	23.6





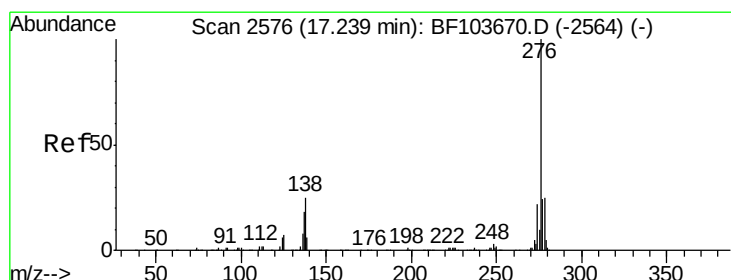
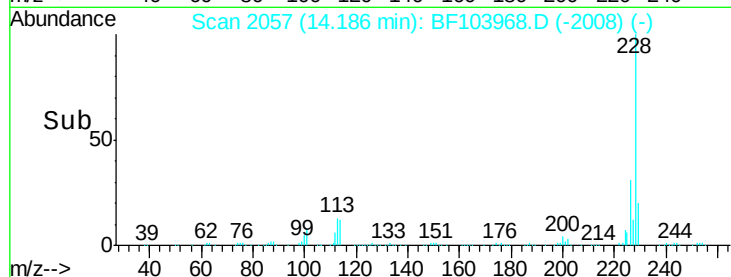
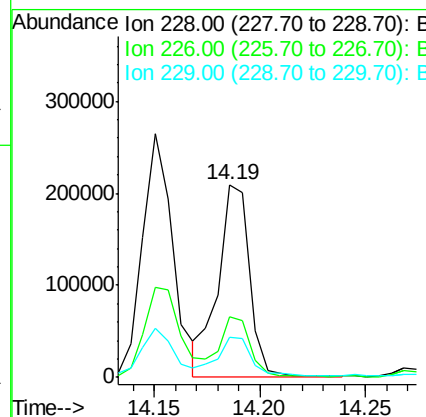
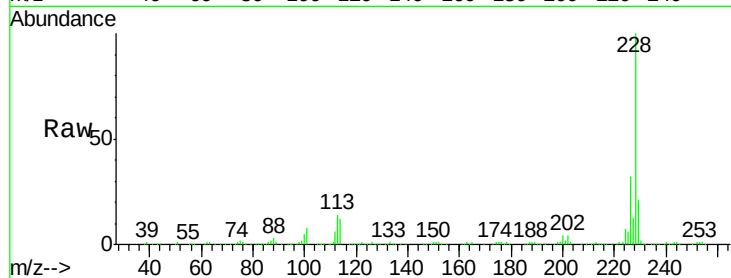
#82
Chrysene
Concen: 14.034 ng
RT: 14.19 min Scan# 2057
Delta R.T. -0.01 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion:	228	Resp:	216212
Ion Ratio	Lower	Upper	
228	100		
226	31.5	25.0	37.6
229	21.2	16.2	24.4

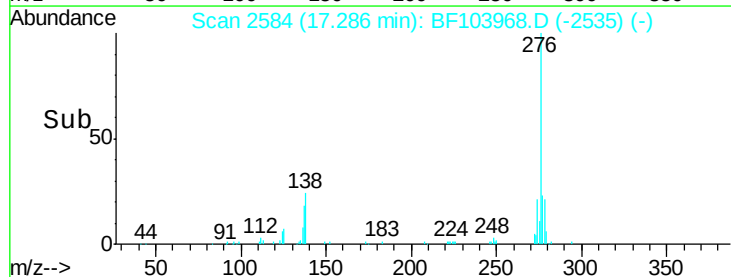
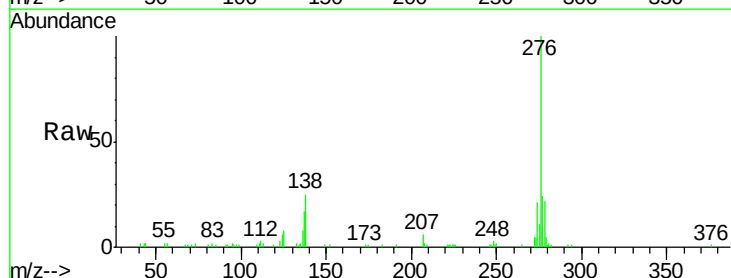
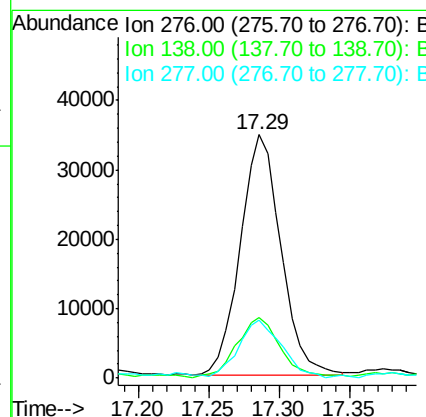
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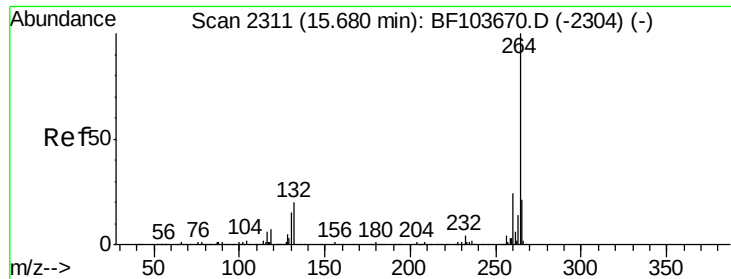
Sohil
3/27/2018 2:16:33 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.165 ng
RT: 17.29 min Scan# 2584
Delta R.T. -0.01 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Tgt Ion:	276	Resp:	69483
Ion Ratio	Lower	Upper	
276	100		
138	27.8	25.0	37.6
277	25.6	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.71 min Scan# 2316

Delta R.T. -0.00 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Instrument :

BNA_F

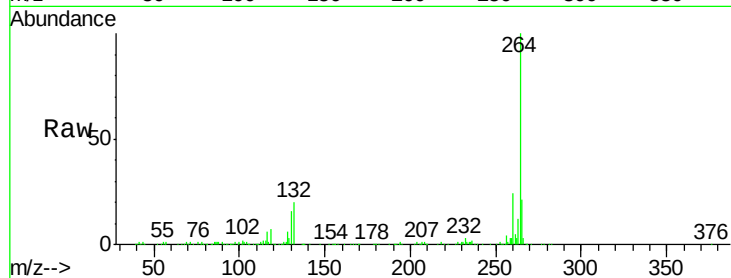
ClientSampleId :

A2_SB17_W_8DL

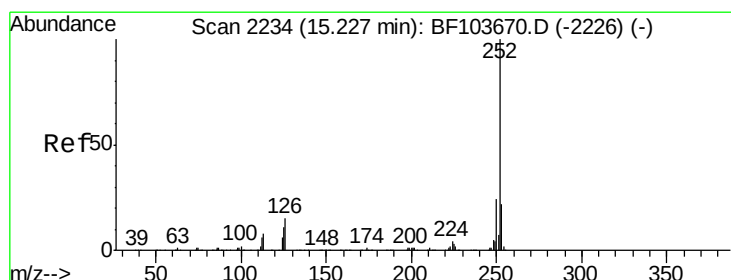
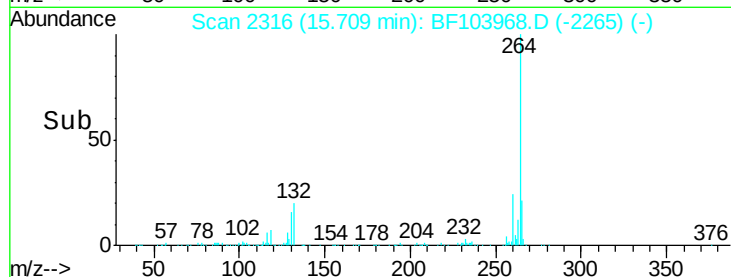
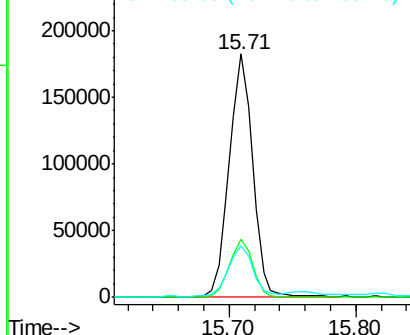
Tot Ion:	264	Resp:	235624
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.2	28.8
265	21.4	17.5	26.3

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3/27/2018 2:16:33 PM



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 13.058 ng m

RT: 15.25 min Scan# 2238

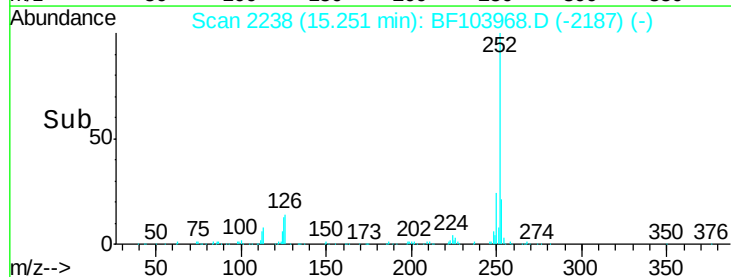
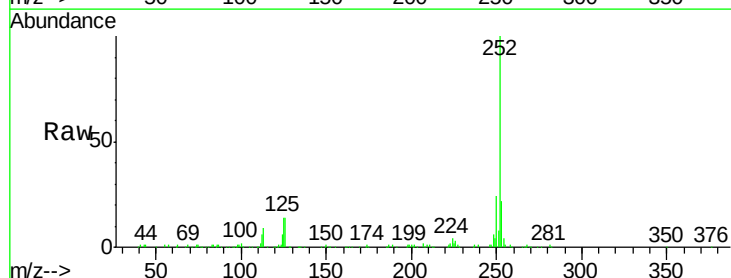
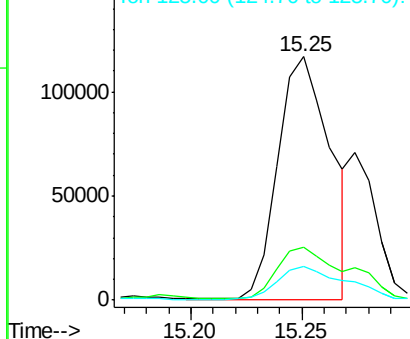
Delta R.T. -0.00 min

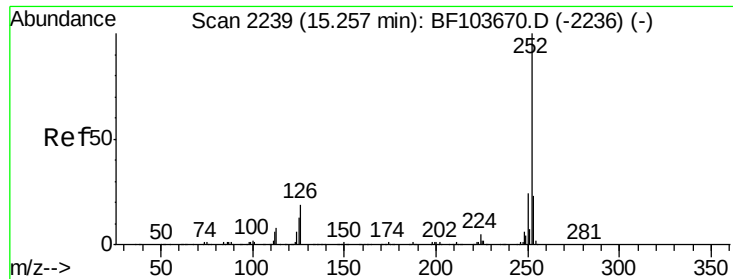
Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Tgt Ion:	252	Resp:	194382
Ion Ratio	Lower	Upper	
252	100		
253	21.6	17.0	25.6
125	13.9	9.0	13.6#

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





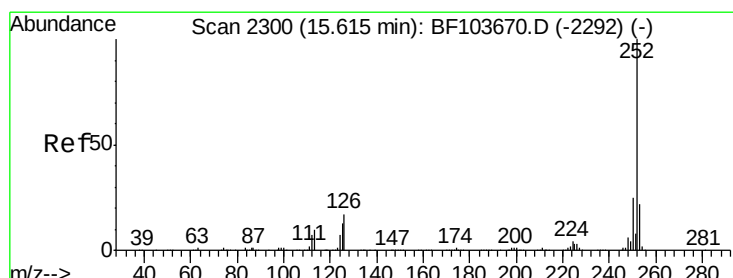
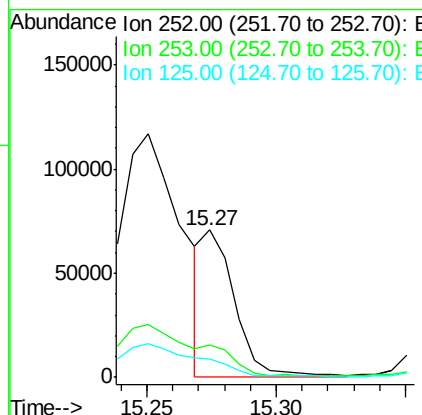
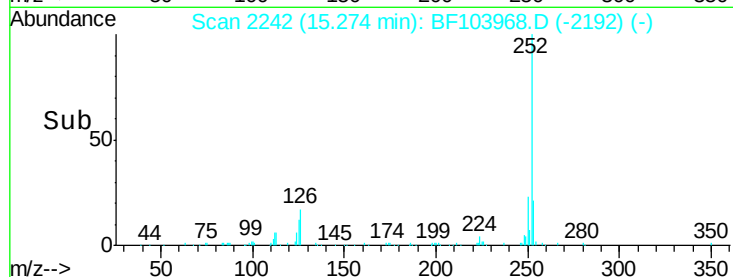
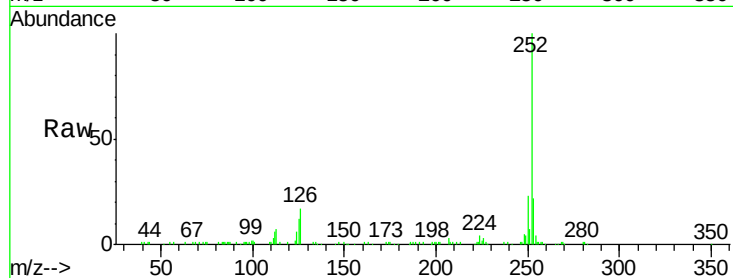
#88
Benzo(k)fluoranthene
Concen: 4.330 ng m
RT: 15.27 min Scan# 2242
Delta R.T. -0.01 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9
125	12.2	10.2	15.2

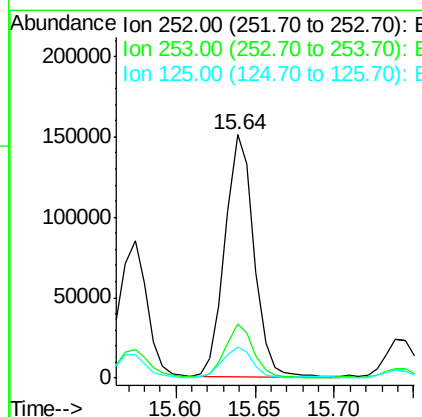
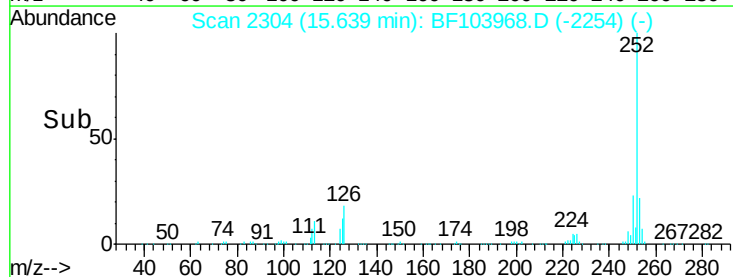
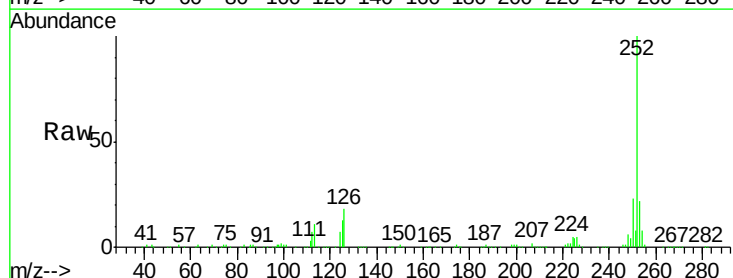
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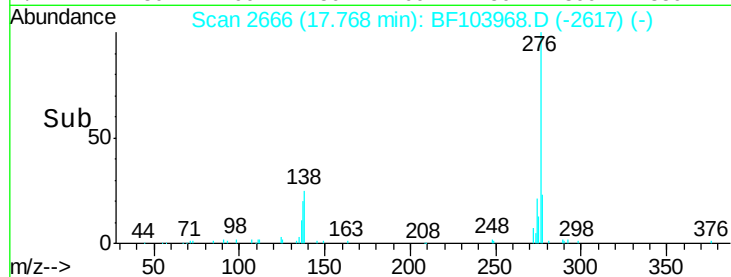
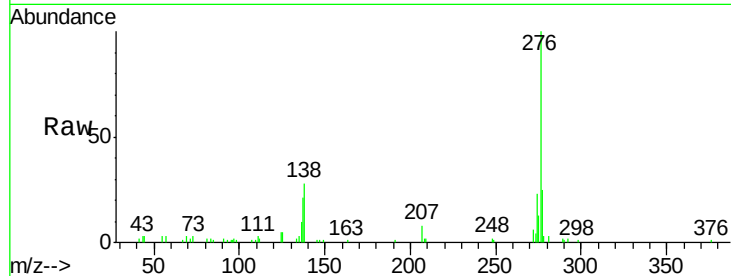
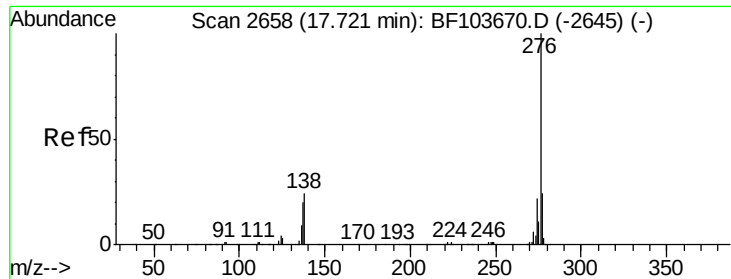
Sohil
3/27/2018 2:16:33 PM



#89
Benzo(a)pyrene
Concen: 14.252 ng
RT: 15.64 min Scan# 2304
Delta R.T. -0.01 min
Lab File: BF103968.D
Acq: 27 Mar 2018 11:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.1	25.7
125	12.7	9.8	14.6





#91

Benzo(a,h,i)perylene

Concen: 6.194 ng

RT: 17.77 min Scan# 2666

Delta R.T. -0.01 min

Lab File: BF103968.D

Acq: 27 Mar 2018 11:11

Tot Ion:	276	Resp:	70452
Ion Ratio	Lower	Upper	
276	100		
277	24.8	17.9	26.9
138	28.0	21.8	32.8

Instrument :

BNA_F

ClientSampleId :

A2_SB17_W_8DL

Manual Integrations
APPROVED

Sohil
3/27/2018 2:16:33 PM

