

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
 Data File : BF103896.D
 Acq On : 23 Mar 2018 23:11
 Operator : JU/SJ
 Sample : J1996-03 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4

Manual Integrations
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 3/26/2018 4:33:33 PM

Quant Time: Mar 24 06:57:21 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	132923	20.00	ng	0.00
21) Naphthalene-d8	8.27	136	463273	20.00	ng	0.01
38) Acenaphthene-d10	10.02	164	246559	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	326870	20.00	ng	0.01
75) Chrysene-d12	14.20	240	164999	20.00	ng	0.03
86) Perylene-d12	15.74	264	199241	20.00	ng	0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	36917	4.22	ng	0.00
7) Phenol-d6	6.59	99	47993	4.49	ng	-0.01
23) Nitrobenzene-d5	7.53	82	25965	3.91	ng	0.00
41) 2,4,6-Tribromophenol	10.82	330	8624	4.07	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	59169	3.83	ng	0.00
78) Terphenyl-d14	13.10	244	48568	6.83	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.30	128	7243757	309.534	ng	97
37) 2-Methylnaphthalene	8.97	142	835090	56.271	ng	98
45) 1,1'-Biphenyl	9.43	154	941498	45.794	ng	99
48) Acenaphthylene	9.89	152	1482867	58.561	ng	98
51) Acenaphthene	10.07	154	1705370	113.423	ng	98
54) Dibenzofuran	10.23	168	2100025	97.794	ng	95
57) Fluorene	10.59	166	2426746	145.635	ng	99
70) Phenanthrene	11.56	178	6204782	347.013	ng	98
71) Anthracene	11.62	178	2856096	157.269	ng	97
72) Carbazole	11.76	167	1226220	69.469	ng	99
74) Fluoranthene	12.77	202	5223435	283.558	ng	98
77) Pylene	13.01	202	4701796	388.020	ng	97
80) Benzo(a)anthracene	14.19	228	2691769	257.724	ng	# 90
82) Chrysene	14.23	228	2233088	224.292	ng	95
85) Indeno(1,2,3-cd)pyrene	17.36	276	1282699	147.527	ng	# 93
87) Benzo(b)fluoranthene	15.29	252	2870824m	228.068	ng	
88) Benzo(k)fluoranthene	15.32	252	800523m	66.159	ng	
89) Benzo(a)pyrene	15.70	252	2235301	195.786	ng	95
90) Dibenzo(a,h)anthracene	17.36	278	343809	34.777	ng	95
91) Benzo(a,h,i)perylene	17.85	276	1148579	119.425	ng	97

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

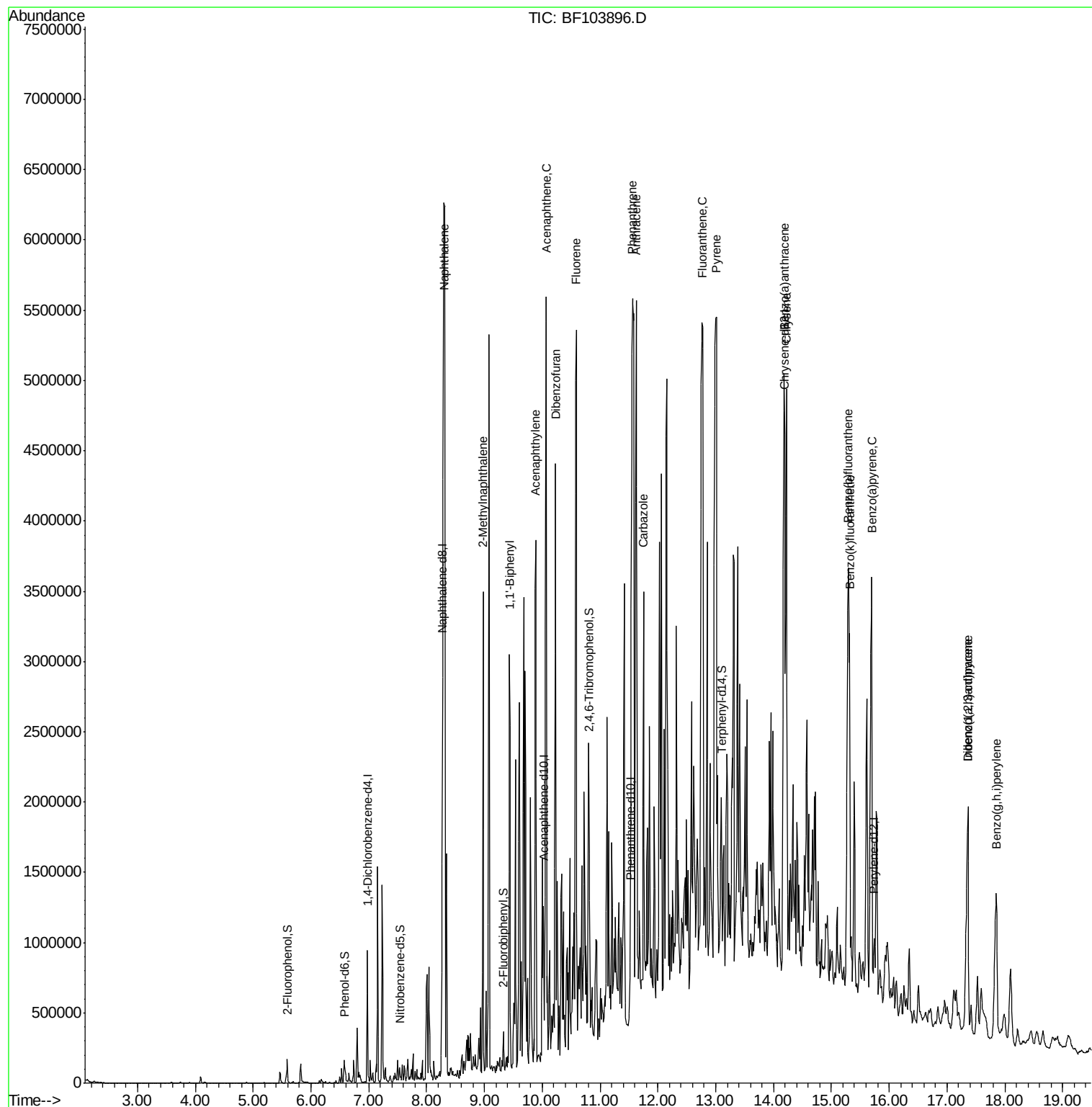
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
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Misc :
ALS Vial : 29 Sample Multiplier: 1

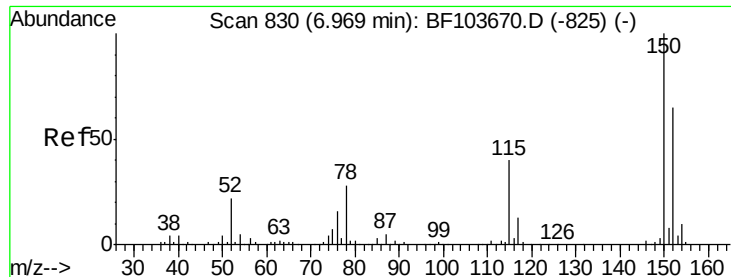
Instrument :
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A2_SB43_S_4

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

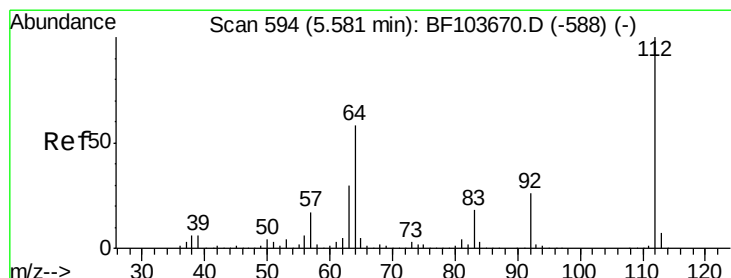
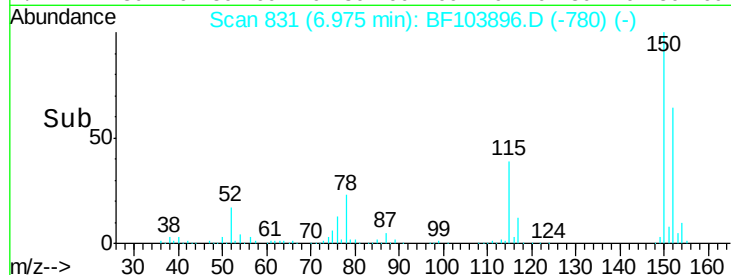
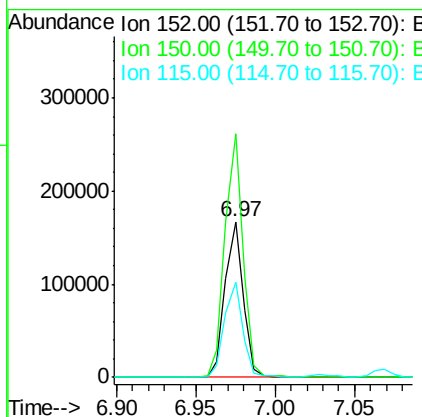
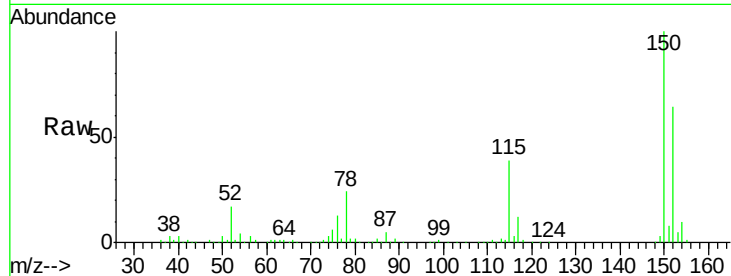
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103896.D
Acq: 23 Mar 2018 23:11

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.6	186.8
115	61.3	50.1	75.1

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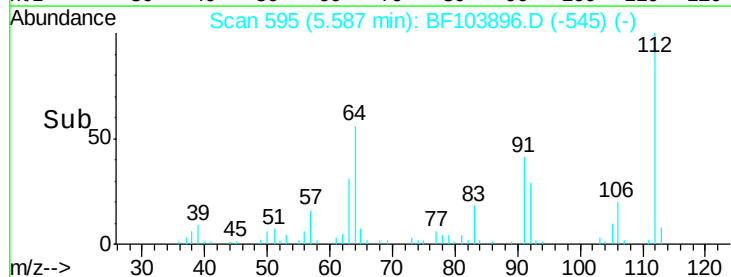
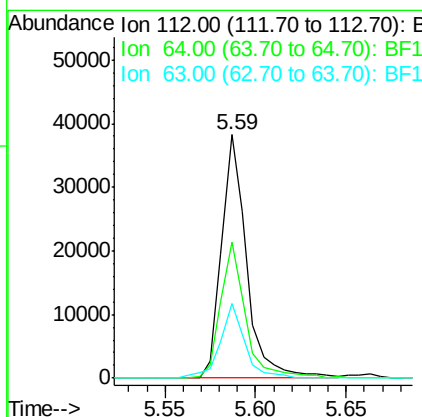
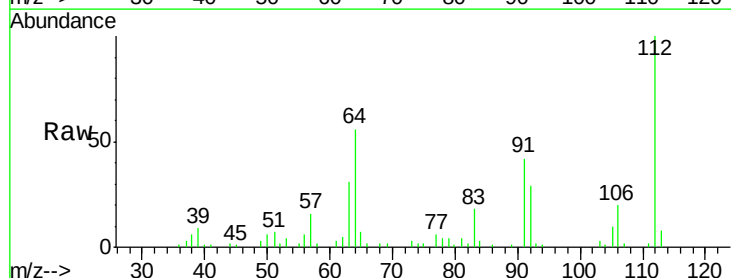
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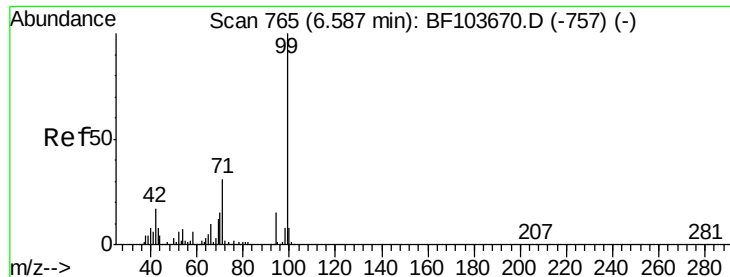


#5

2-Fluorophenol
Concen: 4.224 ng
RT: 5.59 min Scan# 595
Delta R.T. -0.01 min
Lab File: BF103896.D
Acq: 23 Mar 2018 23:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	47.9	71.9
63	30.6	23.7	35.5





#7

Phenol-d6

Concen: 4.489 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

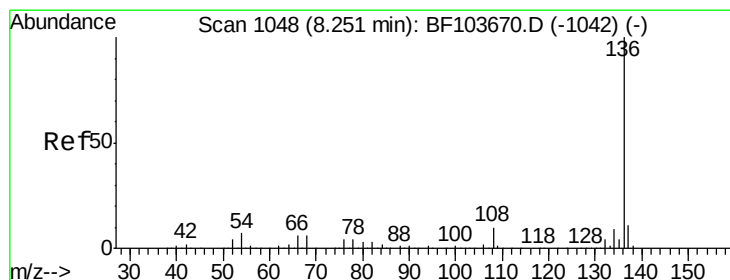
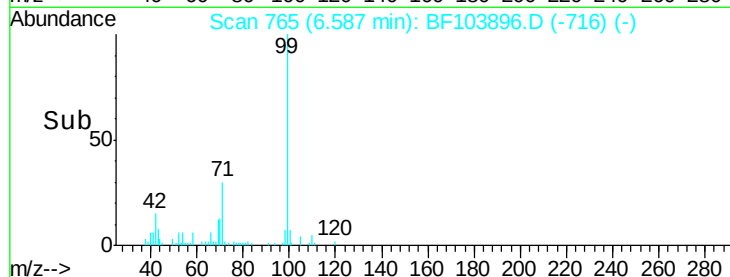
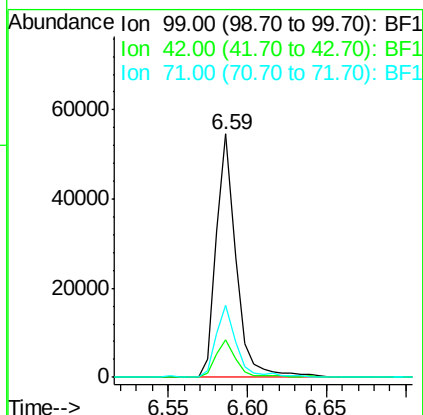
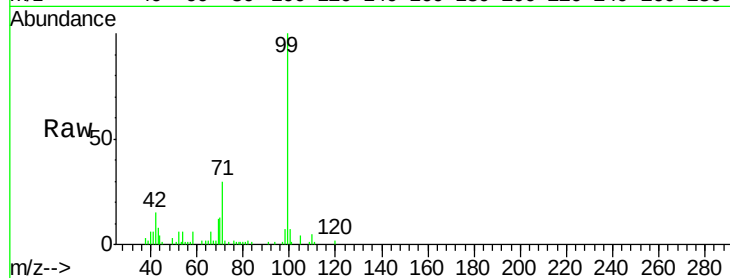
ClientSampleId :

A2_SB43_S_4

Tot Ion:	99	Resp:	47993
Ion	Ratio	Lower	Upper
99	100		
42	15.3	14.5	21.7
71	29.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

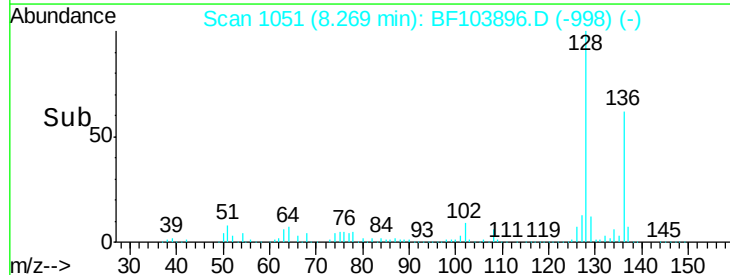
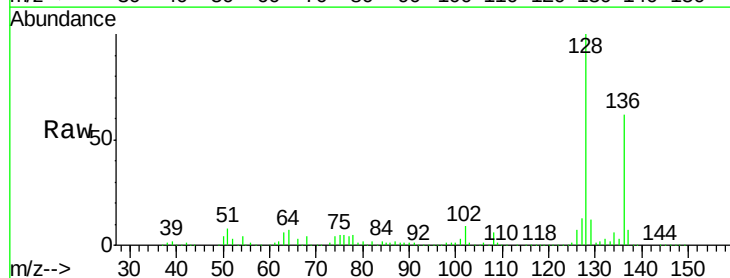
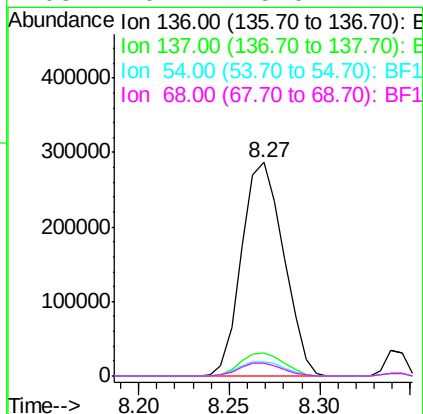
RT: 8.27 min Scan# 1051

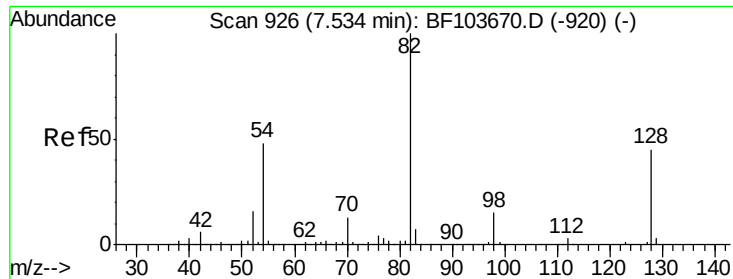
Delta R.T. 0.01 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Tgt Ion:	136	Resp:	463273
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	6.5	6.6	9.8#
68	6.2	5.0	7.4





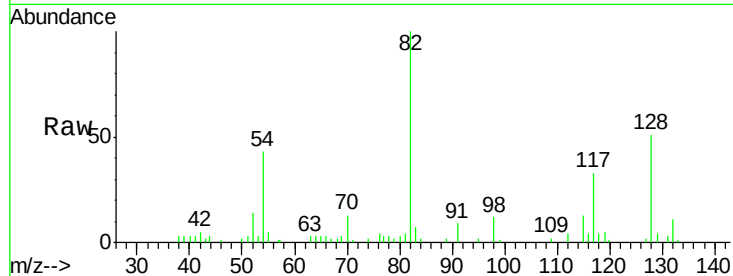
#23
Nitrobenzene-d5
Concen: 3.908 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.01 min
Lab File: BF103896.D
Acq: 23 Mar 2018 23:11

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4

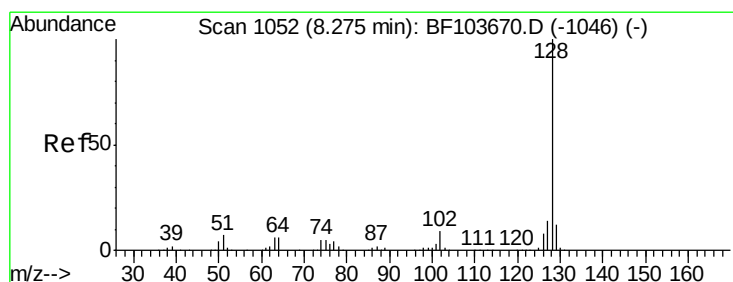
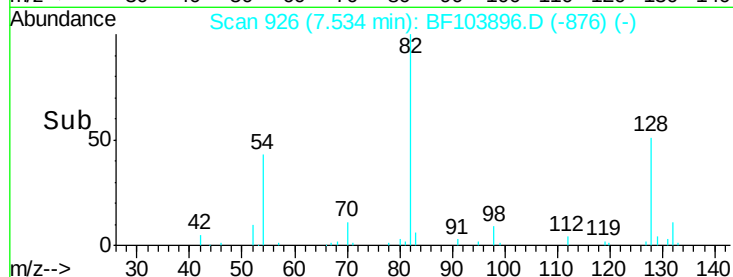
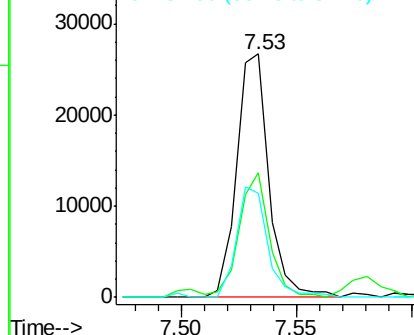
Tot Ion	82	Resp	25965
Ion Ratio	100	Lower	Upper
128	51.2	36.1	54.1
54	42.9	41.4	62.2

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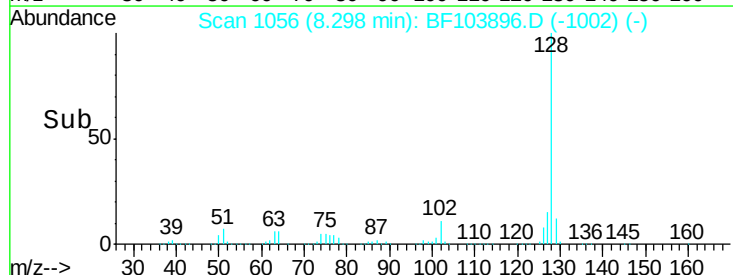
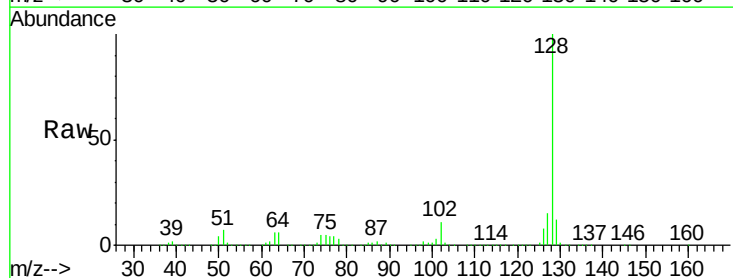
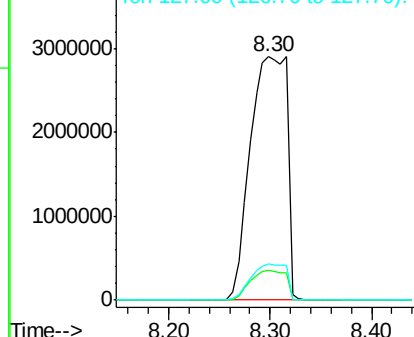
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

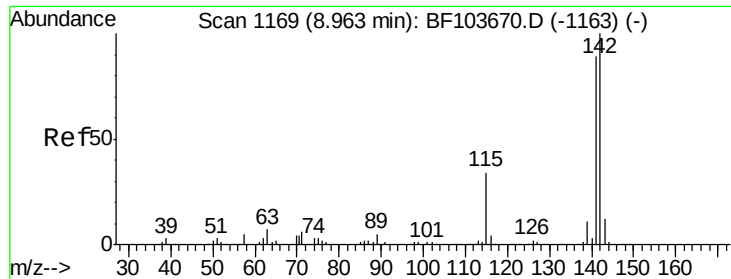


#31
Naphthalene
Concen: 309.534 ng
RT: 8.30 min Scan# 1056
Delta R.T. 0.02 min
Lab File: BF103896.D
Acq: 23 Mar 2018 23:11

Tgt Ion	128	Resp	7243757
Ion Ratio	100	Lower	Upper
129	12.0	8.8	13.2
127	14.6	10.9	16.3

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





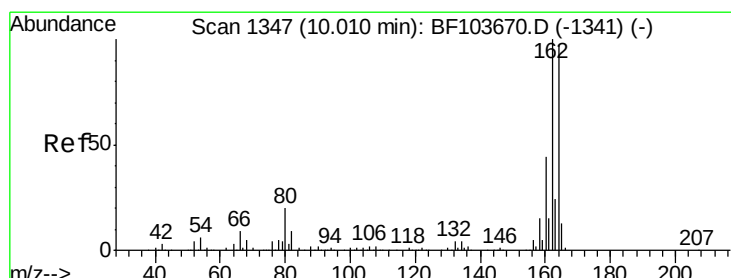
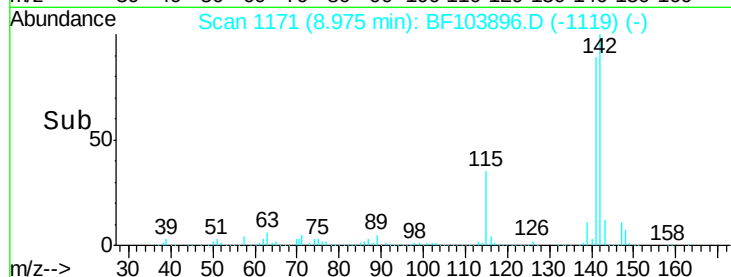
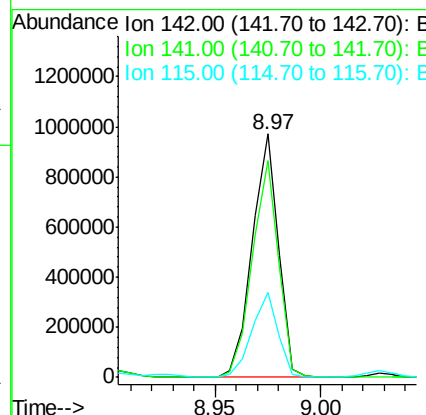
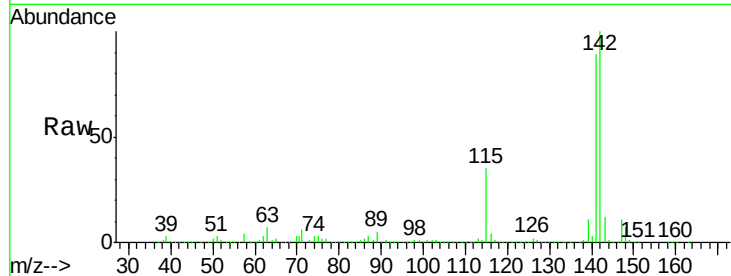
#37
2-Methylnaphthalene
Concen: 56.271 ng
RT: 8.97 min Scan# 1171
Delta R.T. 0.01 min
Lab File: BF103896.D
Acq: 23 Mar 2018 23:11

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.8	106.2
115	35.0	26.1	39.1

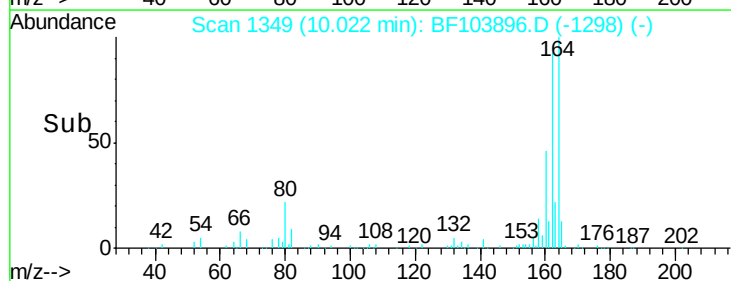
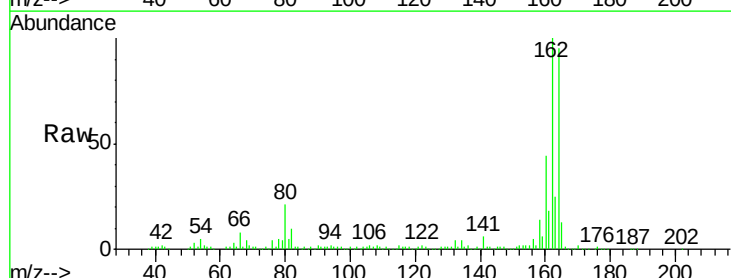
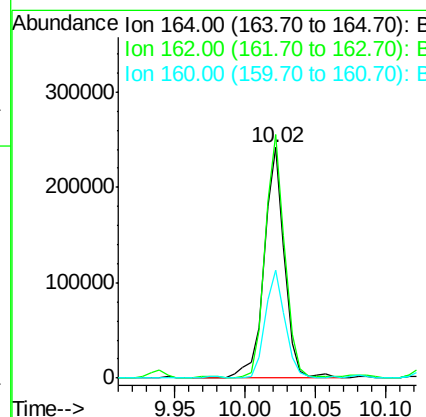
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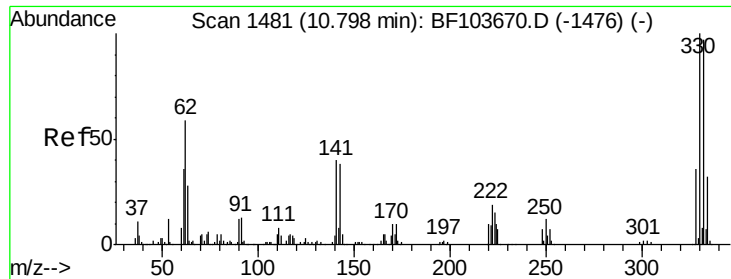
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1349
Delta R.T. -0.00 min
Lab File: BF103896.D
Acq: 23 Mar 2018 23:11

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.7	86.1	129.1
160	46.8	38.3	57.5





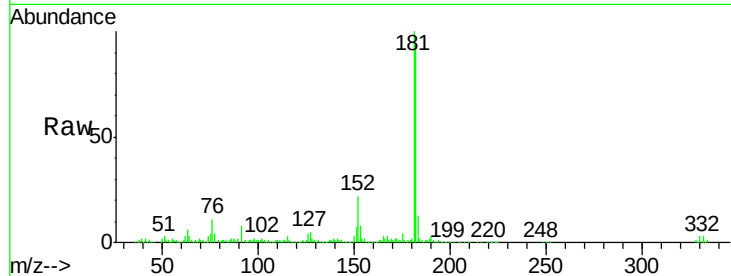
#41
 2,4,6-Tribromophenol
 Concen: 4.068 ng
 RT: 10.82 min Scan# 1484
 Delta R.T. 0.01 min
 Lab File: BF103896.D
 Acq: 23 Mar 2018 23:11

Instrument :
 BNA_F
 ClientSampled :
 A2_SB43_S_4

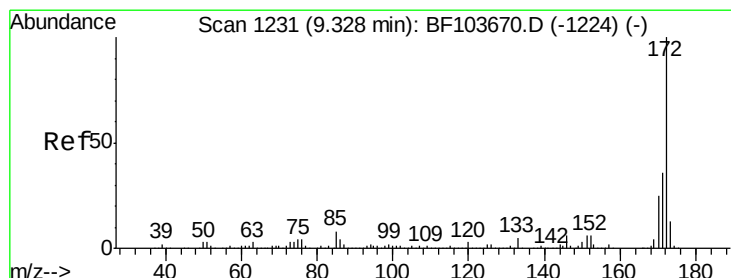
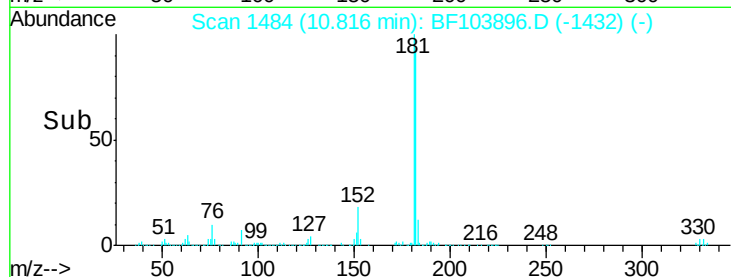
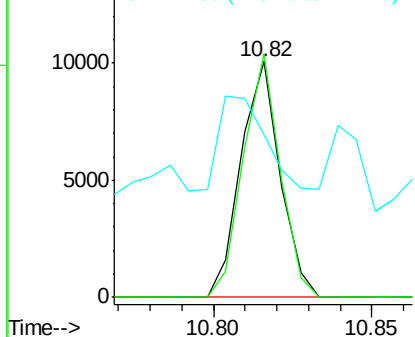
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.0	115.6
141	59.1	29.9	44.9#

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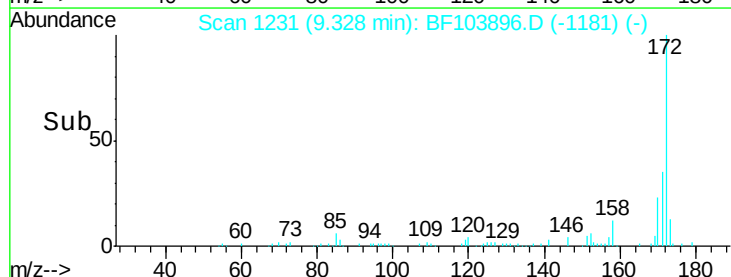
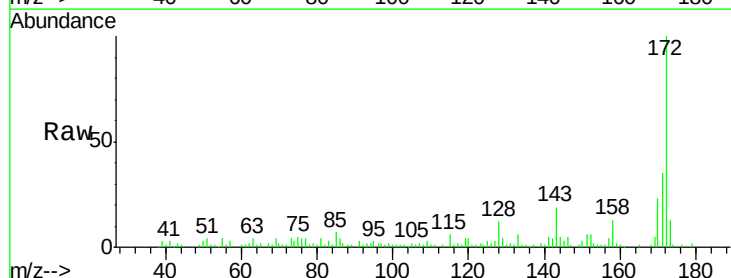
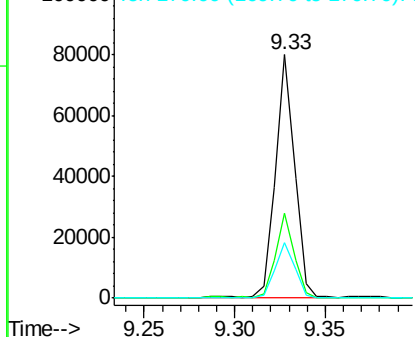
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

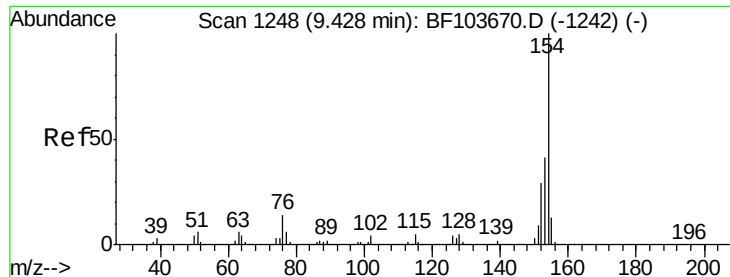


#44
 2-Fluorobiphenyl
 Concen: 3.828 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103896.D
 Acq: 23 Mar 2018 23:11

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.7	44.5
170	23.0	19.6	29.4

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





#45

1,1'-Biphenyl

Concen: 45.794 ng

RT: 9.43 min Scan# 1249

Delta R.T. -0.00 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

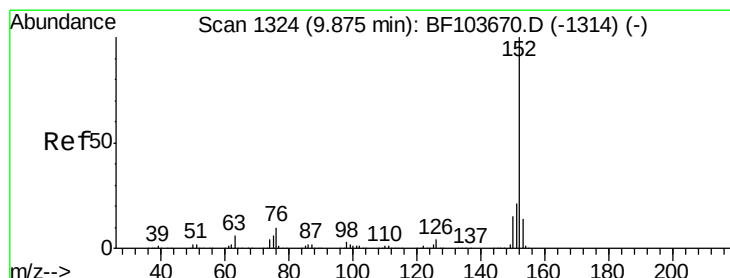
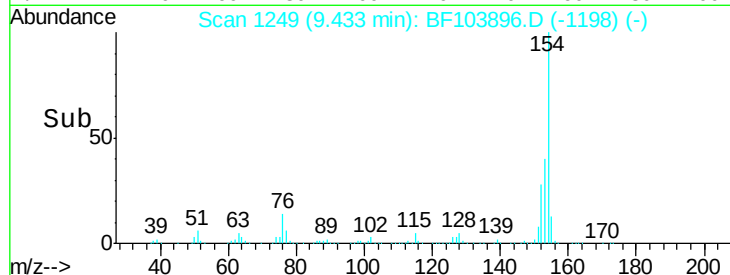
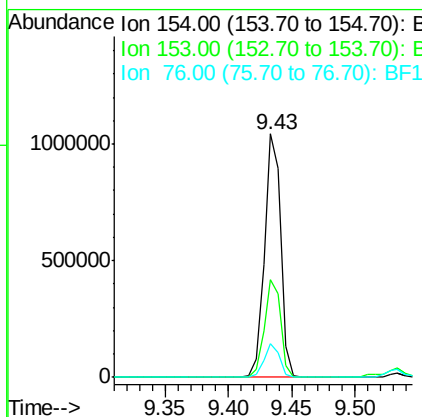
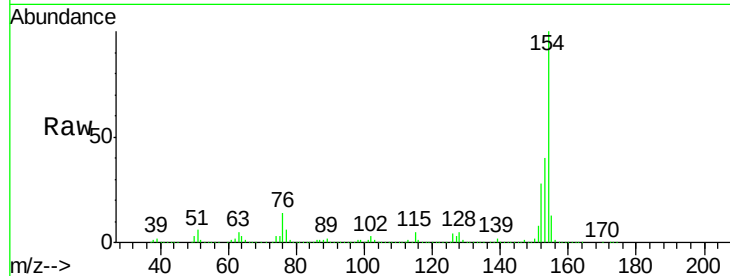
ClientSampled :

A2_SB43_S_4

Tot Ion:	154	Resp:	941498
Ion Ratio	Lower	Upper	
154	100		
153	40.2	21.3	61.3
76	14.0	0.0	34.0

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#48

Acenaphthylene

Concen: 58.561 ng

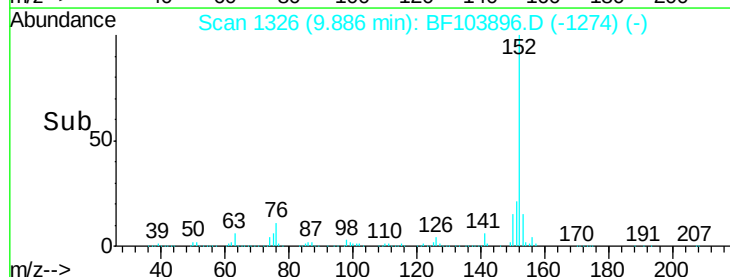
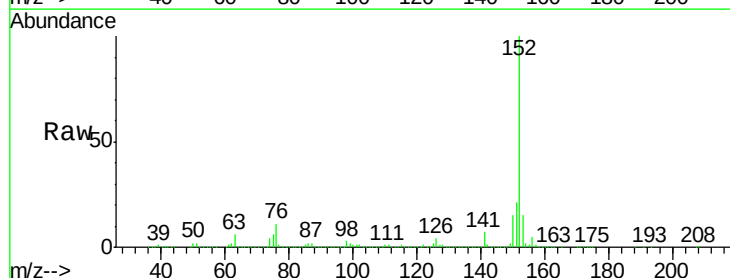
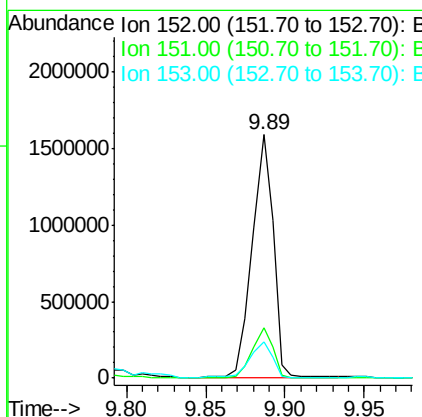
RT: 9.89 min Scan# 1326

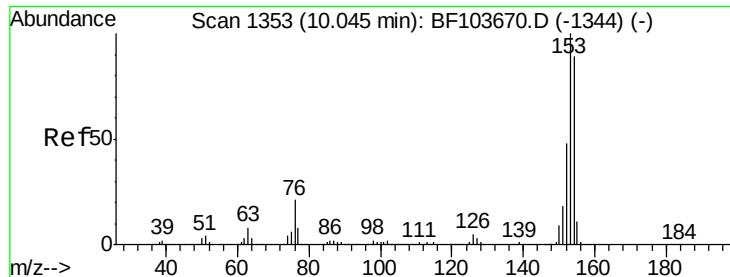
Delta R.T. 0.01 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Tgt Ion:	152	Resp:	1482867
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.3	24.5
153	14.8	10.7	16.1





#51

Acenaphthene

Concen: 113.423 ng

RT: 10.07 min Scan# 1357

Delta R.T. 0.01 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

ClientSampleId :

A2_SB43_S_4

Tot Ion:154 Resp: 1705370

Ion Ratio Lower Upper

154 100

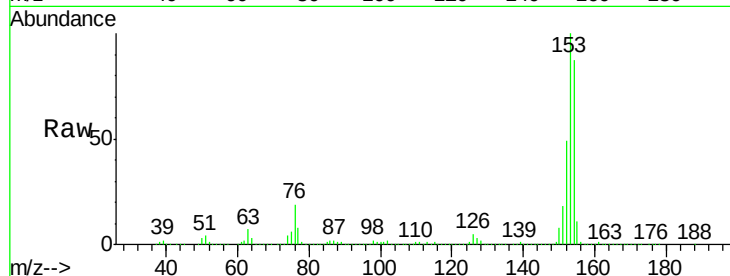
153 115.5 91.2 136.8

152 56.1 43.8 65.8

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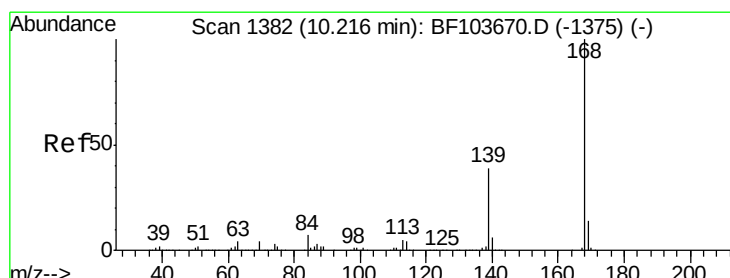
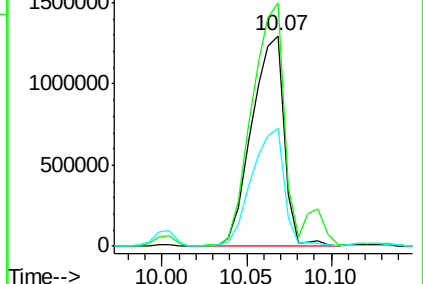
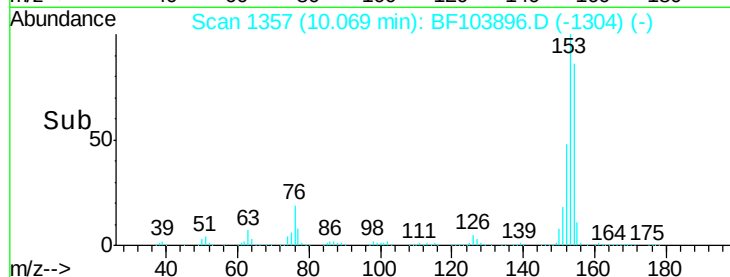
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 97.794 ng

RT: 10.23 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

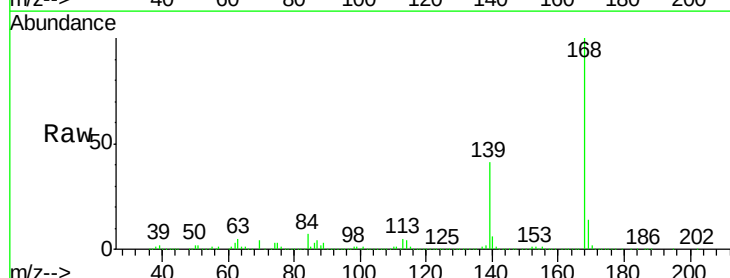
Tgt Ion:168 Resp: 2100025

Ion Ratio Lower Upper

168 100

139 40.9 30.1 45.1

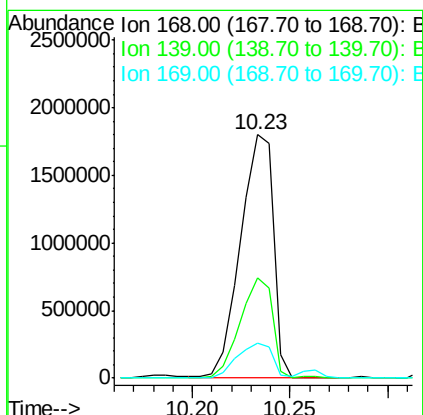
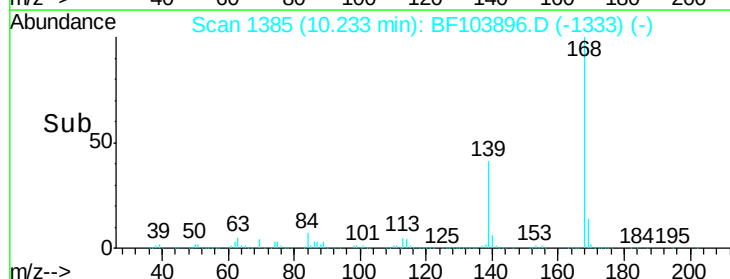
169 14.3 10.9 16.3

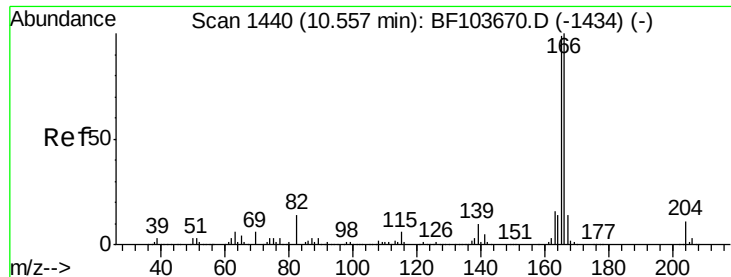


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





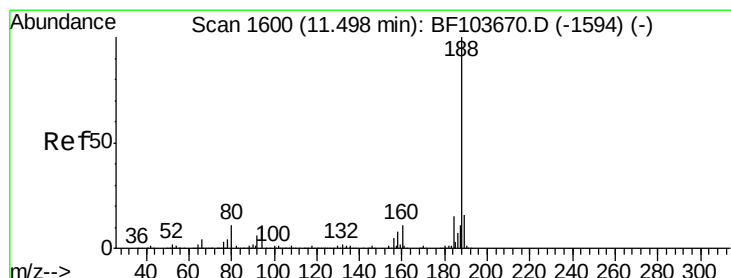
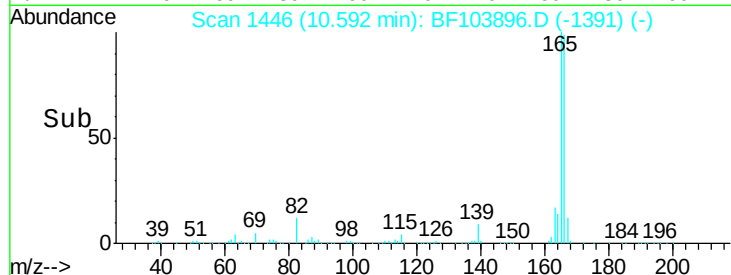
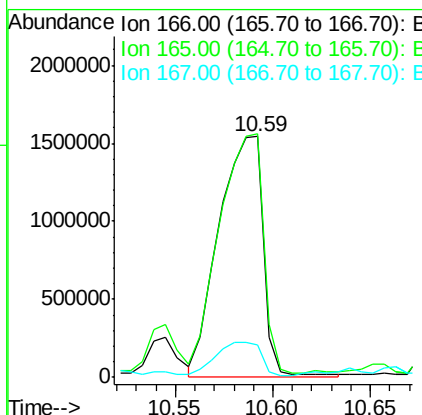
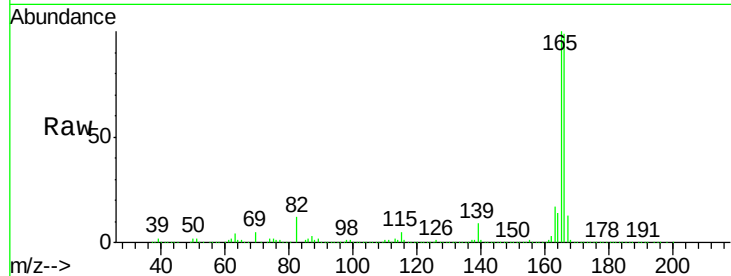
#57
 Fluorene
 Concen: 145.635 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. 0.02 min
 Lab File: BF103896.D
 Acq: 23 Mar 2018 23:11

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4

Tot Ion:166 Resp: 2426746
 Ion Ratio Lower Upper
 166 100
 165 101.2 79.8 119.8
 167 13.5 10.6 16.0

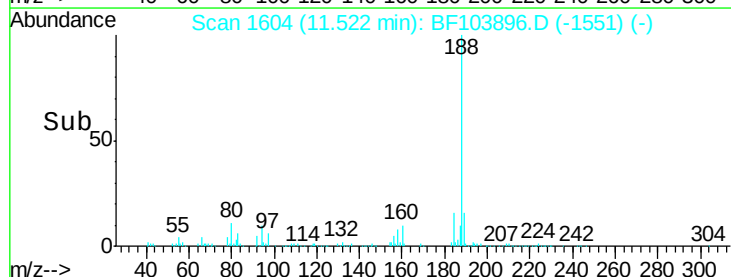
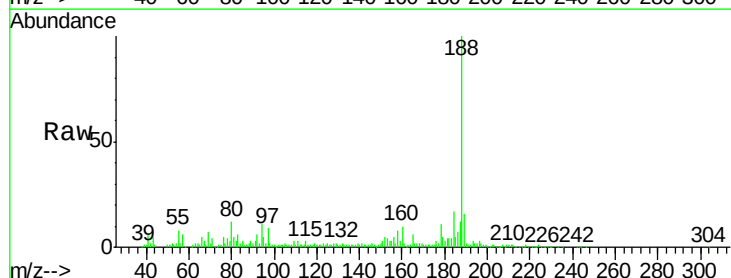
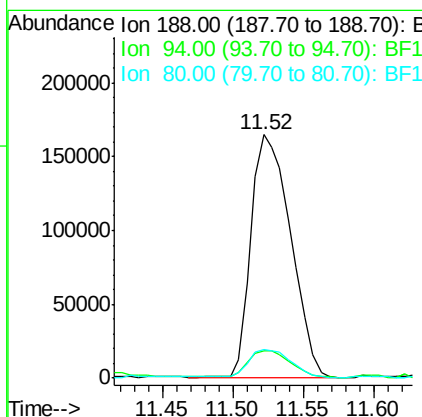
Manual Integrations
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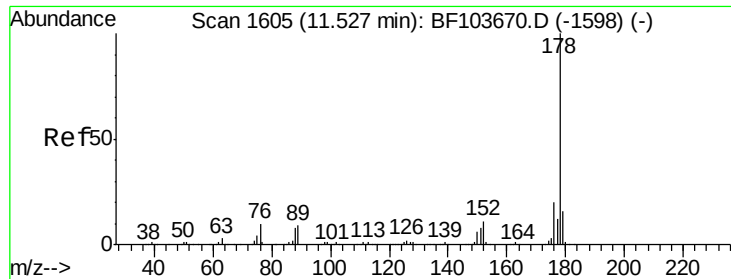
Sohil
 3/26/2018 4:33:33 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.52 min Scan# 1604
 Delta R.T. 0.01 min
 Lab File: BF103896.D
 Acq: 23 Mar 2018 23:11

Tgt Ion:188 Resp: 326870
 Ion Ratio Lower Upper
 188 100
 94 11.1 8.5 12.7
 80 11.8 9.2 13.8





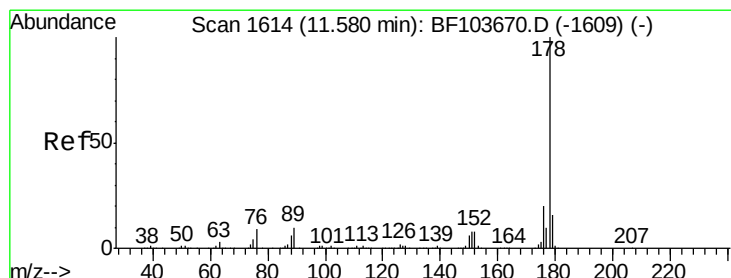
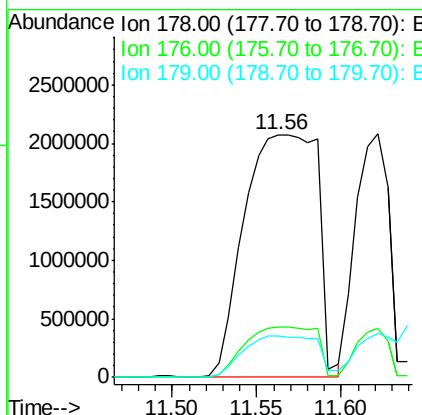
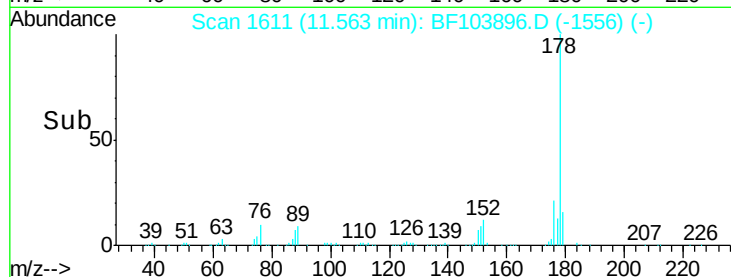
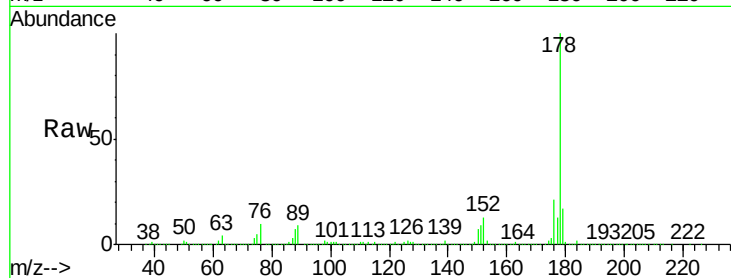
#70
 Phenanthrene
 Concen: 347.013 ng
 RT: 11.56 min Scan# 1611
 Delta R.T. 0.02 min
 Lab File: BF103896.D
 Acq: 23 Mar 2018 23:11

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4

Tot Ion:178 Resp: 6204782
 Ion Ratio Lower Upper
 178 100
 176 20.8 15.8 23.8
 179 16.8 13.0 19.6

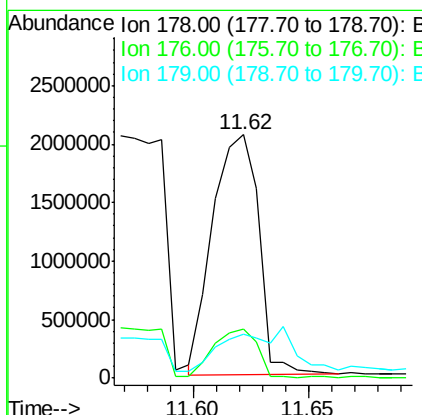
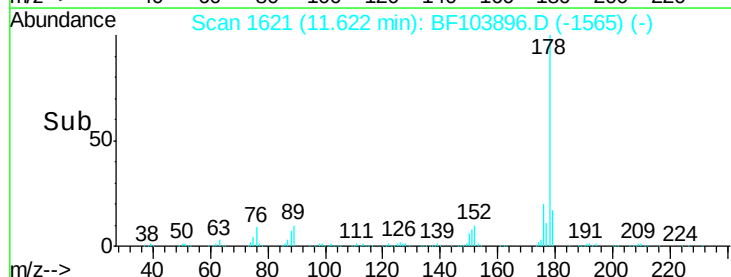
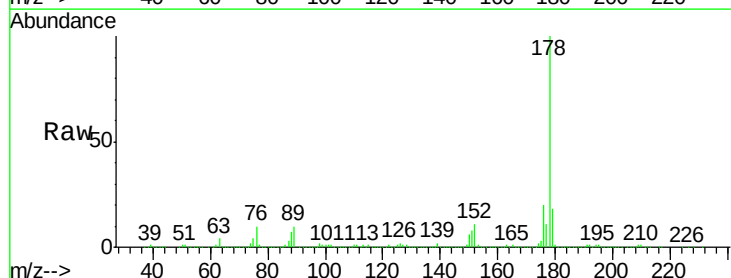
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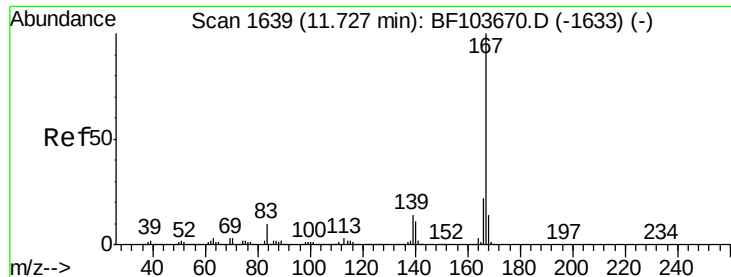
Sohil
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#71
 Anthracene
 Concen: 157.269 ng
 RT: 11.62 min Scan# 1621
 Delta R.T. 0.03 min
 Lab File: BF103896.D
 Acq: 23 Mar 2018 23:11

Tgt Ion:178 Resp: 2856096
 Ion Ratio Lower Upper
 178 100
 176 19.9 15.4 23.2
 179 18.0 12.6 19.0





#72

Carbazole

Concen: 69.469 ng

RT: 11.76 min Scan# 1644

Delta R.T. 0.01 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

ClientSampleId :

A2_SB43_S_4

Tot Ion:167 Resp: 1226220

Ion Ratio Lower Upper

167 100

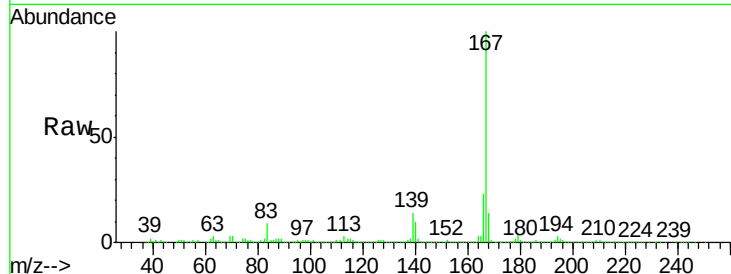
166 22.7 17.6 26.4

139 13.8 10.9 16.3

Manual Integrations
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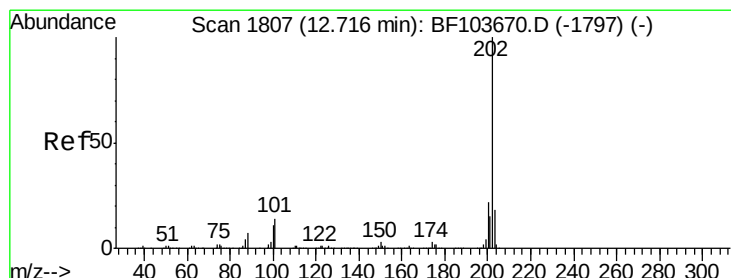
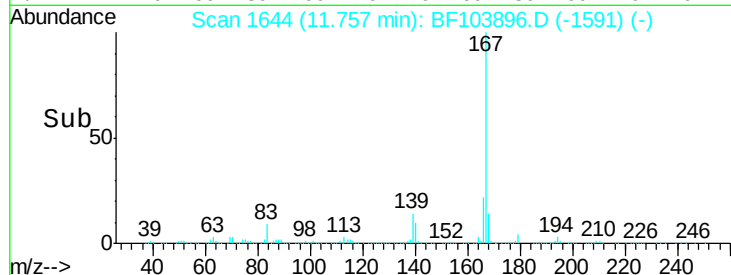
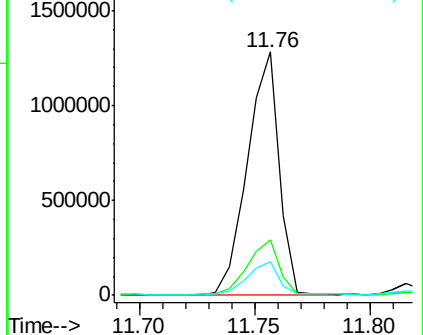
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 283.558 ng

RT: 12.77 min Scan# 1817

Delta R.T. 0.04 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

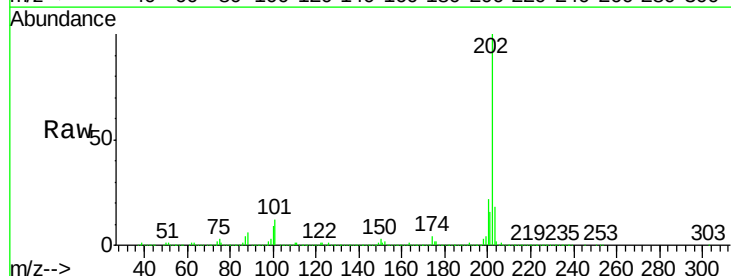
Tgt Ion:202 Resp: 5223435

Ion Ratio Lower Upper

202 100

101 12.3 0.0 34.1

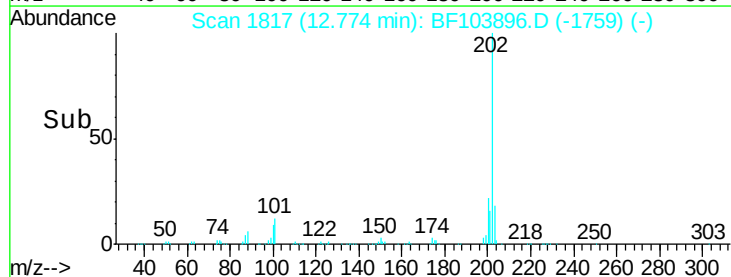
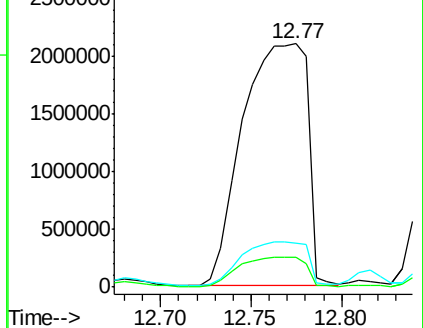
203 18.2 0.0 38.1

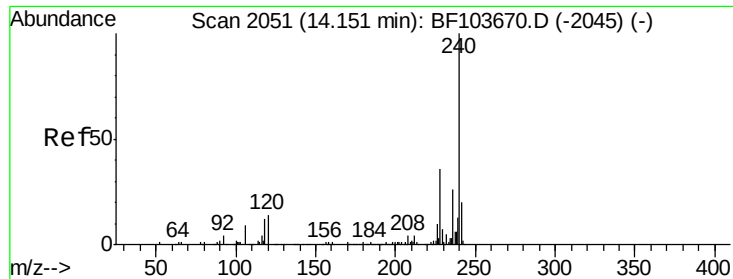


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.20 min Scan# 2059

Delta R.T. 0.03 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

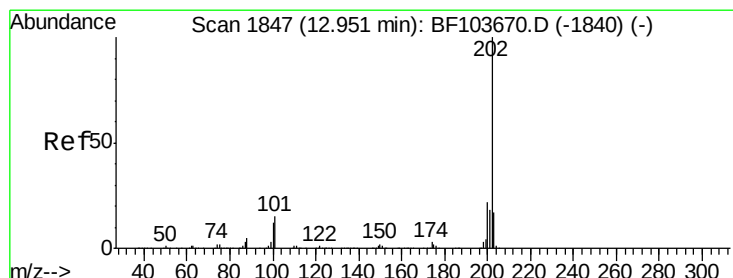
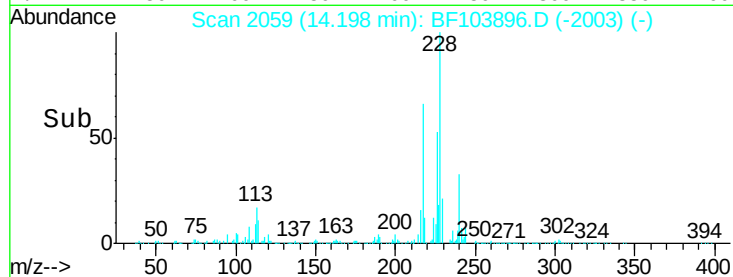
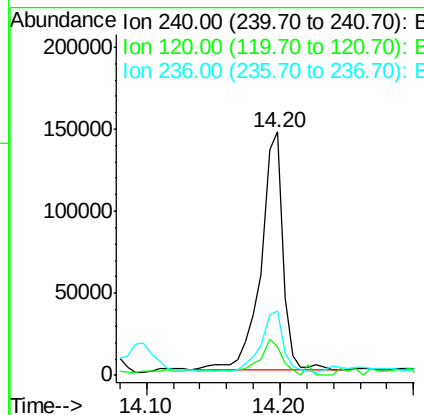
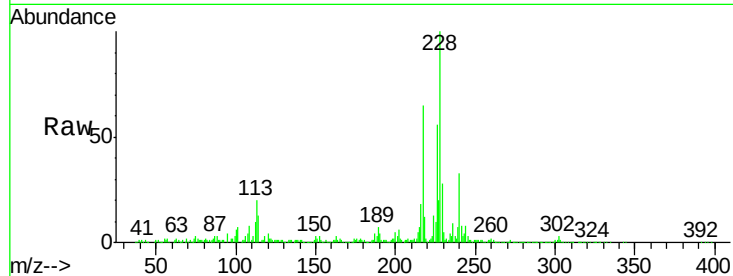
ClientSampleId :

A2_SB43_S_4

Tot Ion:	240	Resp:	164999
Ion Ratio	Lower	Upper	
240	100		
120	11.9	9.5	14.3
236	26.5	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 388.020 ng

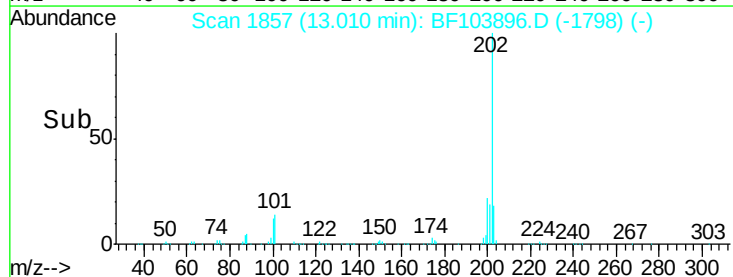
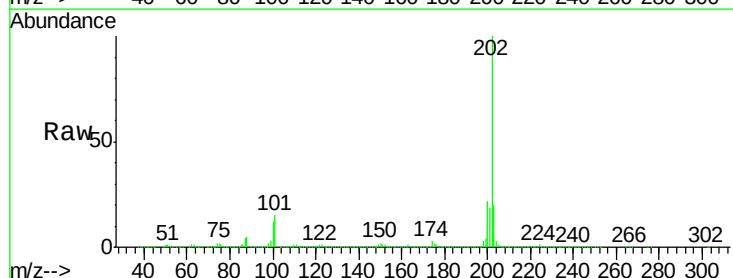
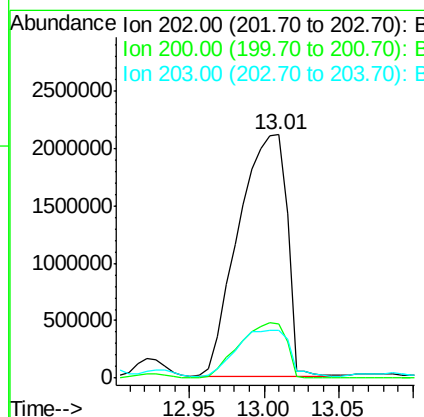
RT: 13.01 min Scan# 1857

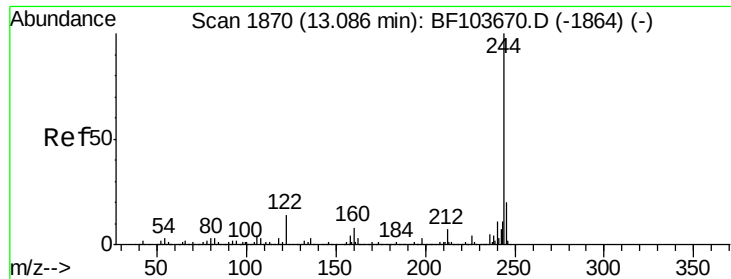
Delta R.T. 0.05 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Tgt Ion:	202	Resp:	4701796
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.4	26.2
203	19.7	14.3	21.5





#78

Terphenyl-d14

Concen: 6.832 ng

RT: 13.10 min Scan# 1873

Delta R.T. 0.01 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

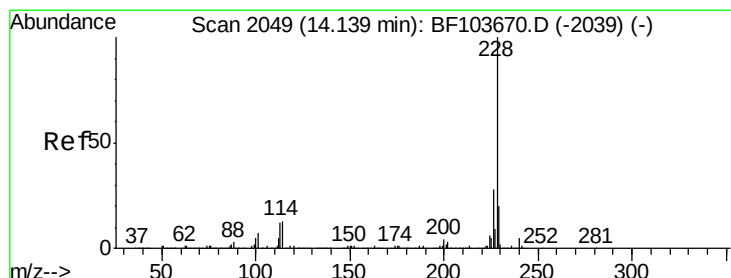
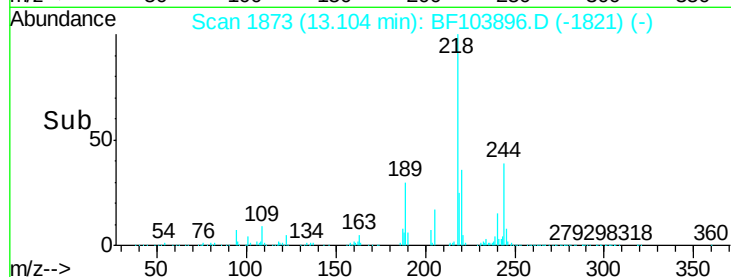
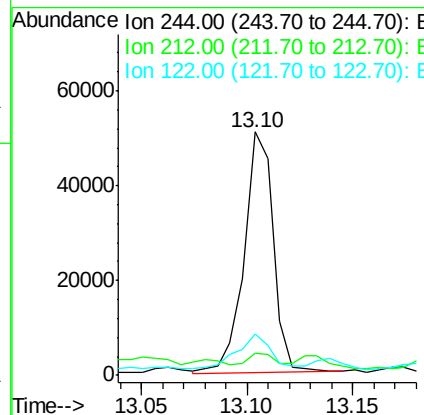
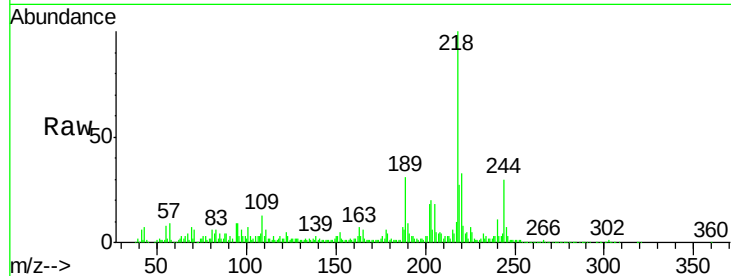
ClientSampleId :

A2_SB43_S_4

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.1	5.4	8.0#
122	16.9	11.0	16.4#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 257.724 ng

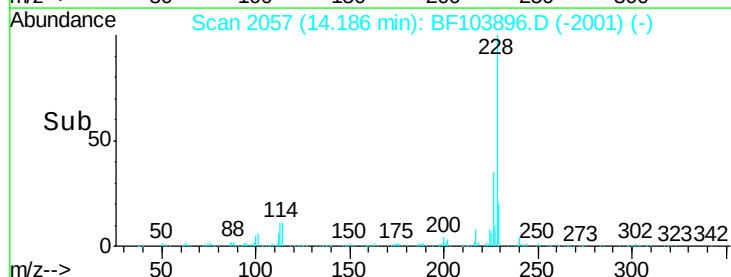
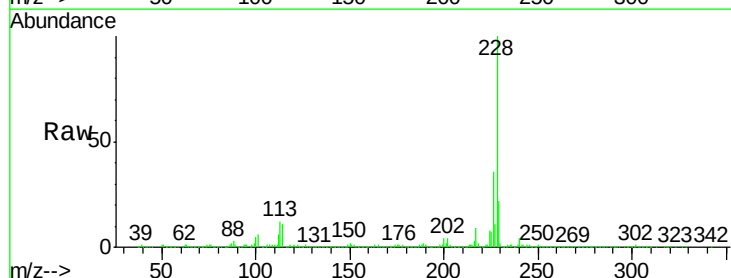
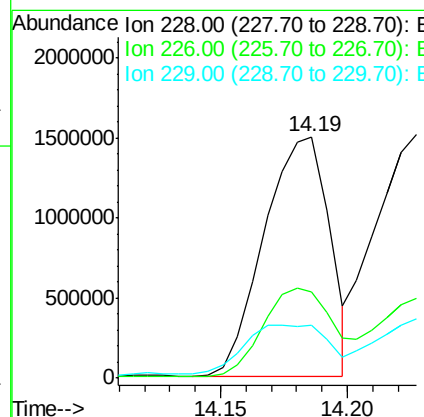
RT: 14.19 min Scan# 2057

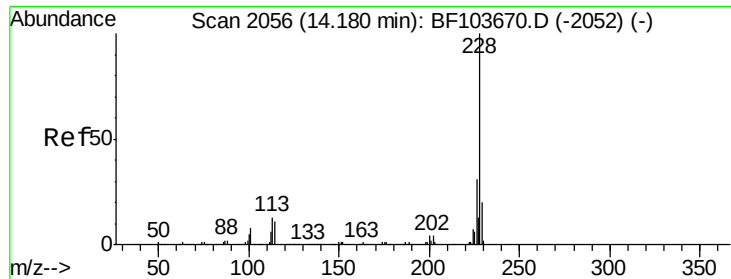
Delta R.T. 0.03 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.6	22.6	33.8#
229	21.8	15.8	23.6





#82

Chrysene

Concen: 224.292 ng

RT: 14.23 min Scan# 2064

Delta R.T. 0.03 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

ClientSampleId :

A2_SB43_S_4

Tot Ion:228 Resp: 2233088

Ion Ratio Lower Upper

228 100

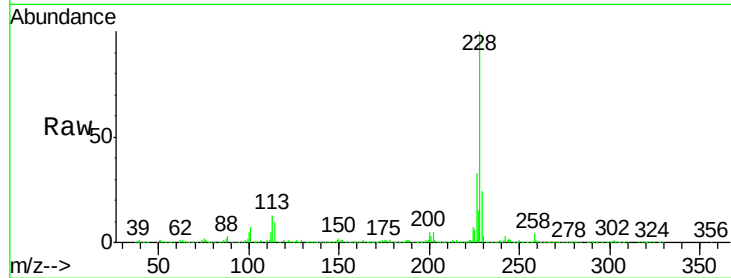
226 32.6 25.0 37.6

229 24.2 16.2 24.4

Manual Integrations
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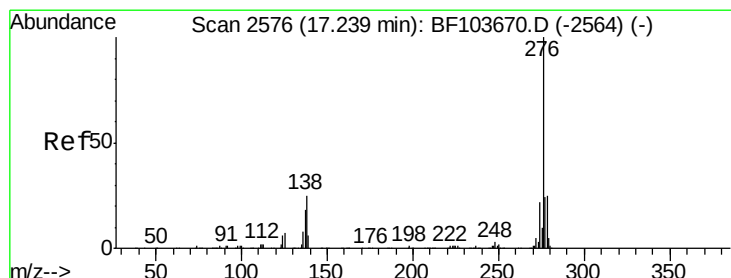
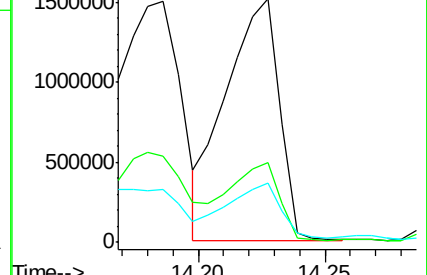
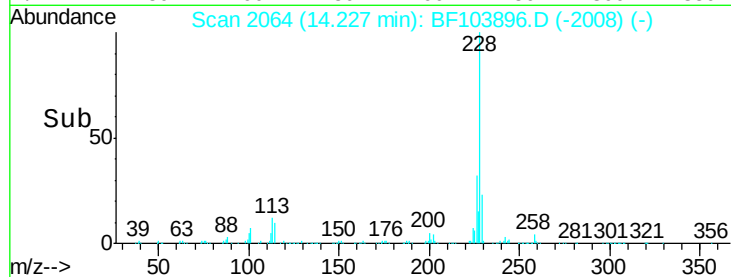
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 147.527 ng

RT: 17.36 min Scan# 2597

Delta R.T. 0.06 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

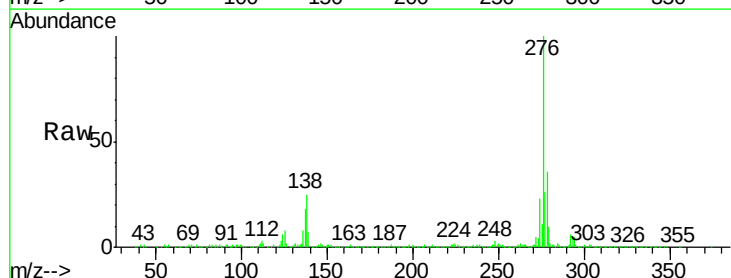
Tgt Ion:276 Resp: 1282699

Ion Ratio Lower Upper

276 100

138 24.4 25.0 37.6#

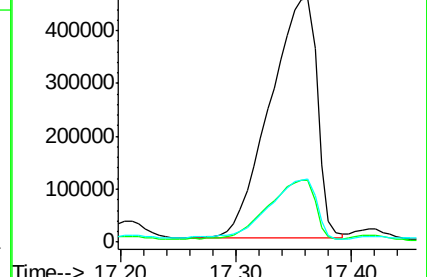
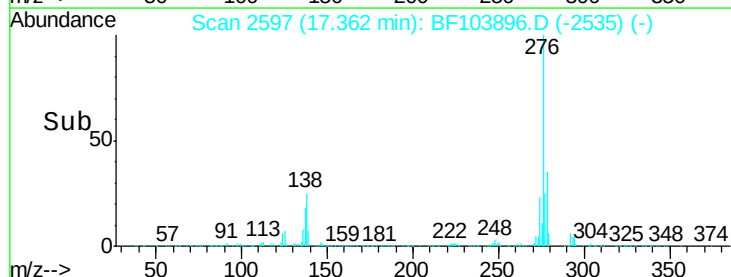
277 25.3 20.1 30.1

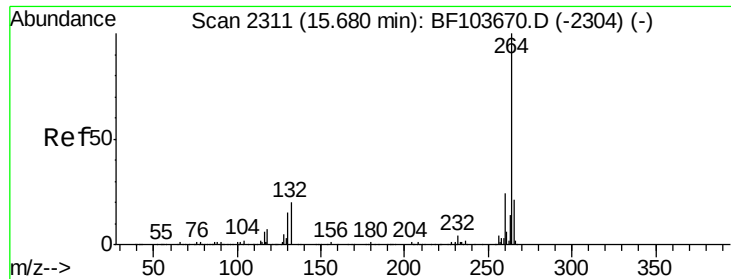


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.74 min Scan# 2322

Delta R.T. 0.04 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

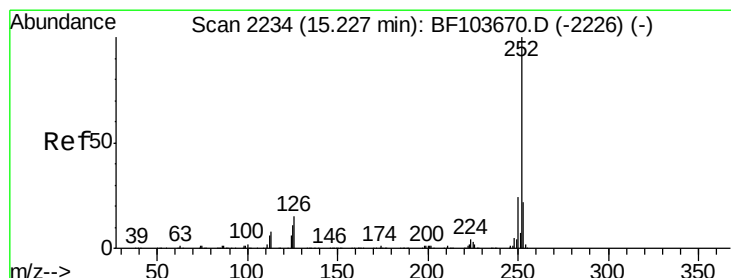
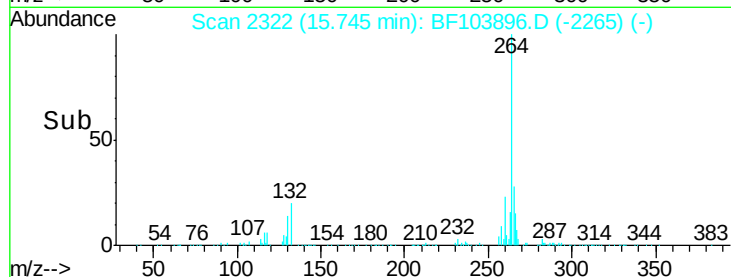
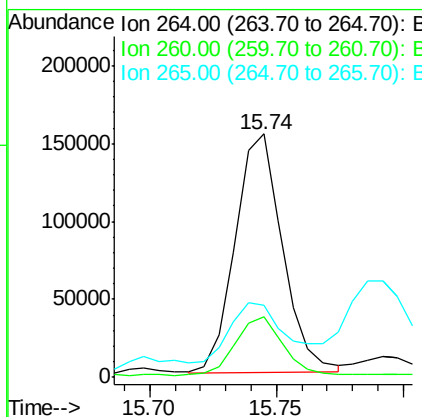
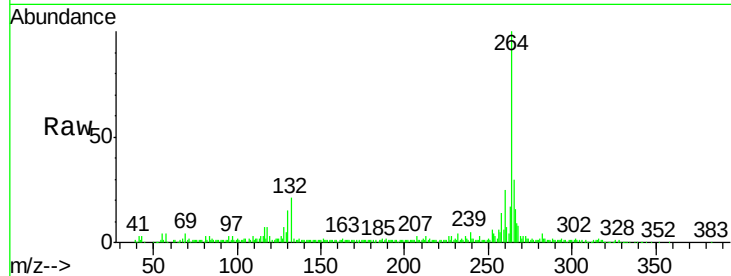
ClientSampleId :

A2_SB43_S_4

Tot Ion:	264	Resp:	199241
Ion Ratio	Lower	Upper	
264	100		
260	24.9	19.2	28.8
265	29.5	17.5	26.3#

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#87

Benzo(b)fluoranthene

Concen: 228.068 ng m

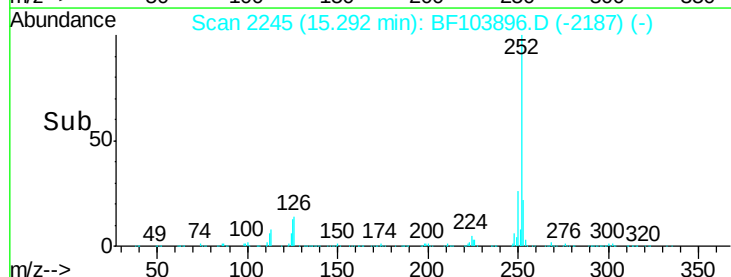
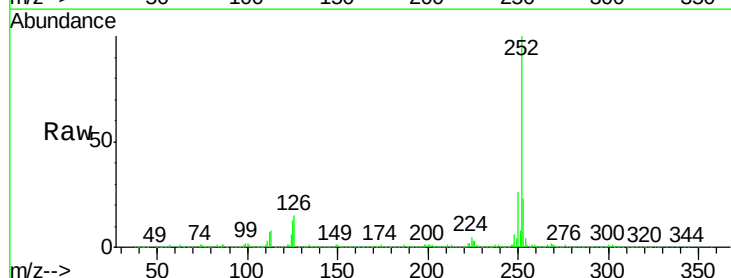
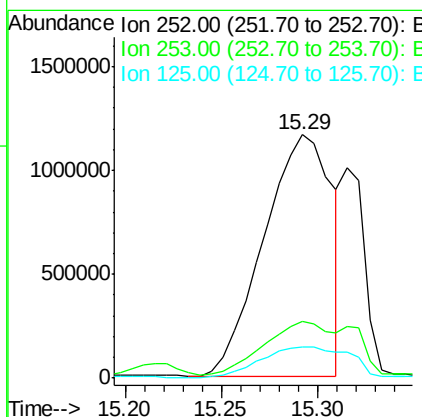
RT: 15.29 min Scan# 2245

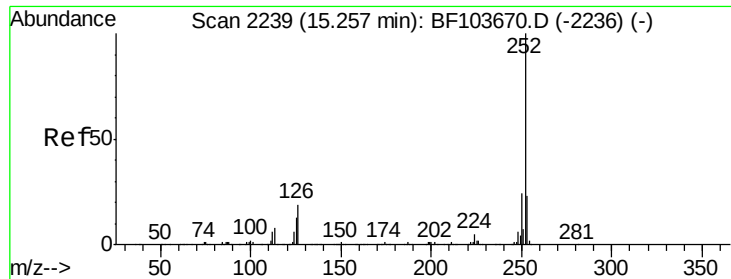
Delta R.T. 0.04 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Tgt Ion:	252	Resp:	2870824
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.0	25.6
125	13.0	9.0	13.6





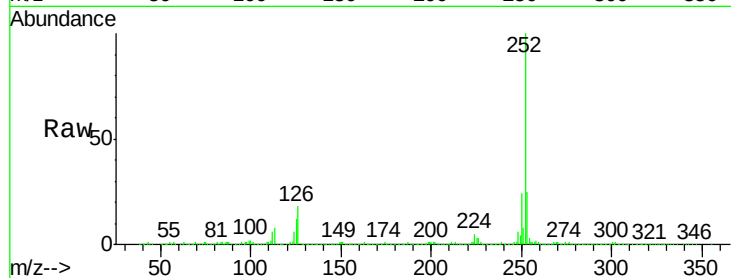
#88
Benzo(k)fluoranthene
Concen: 66.159 ng/mL
RT: 15.32 min Scan# 2249
Delta R.T. 0.04 min
Lab File: BF103896.D
Acq: 23 Mar 2018 23:11

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	12.4	10.2	15.2

Manual Integrations
APPROVED

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

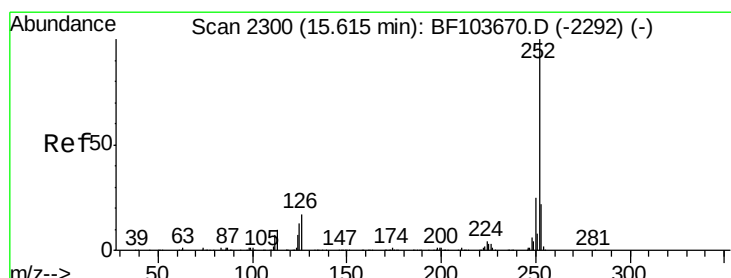
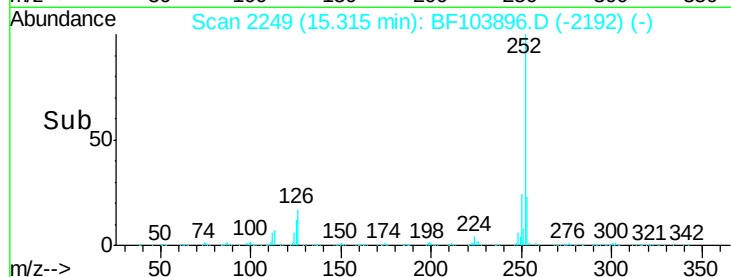
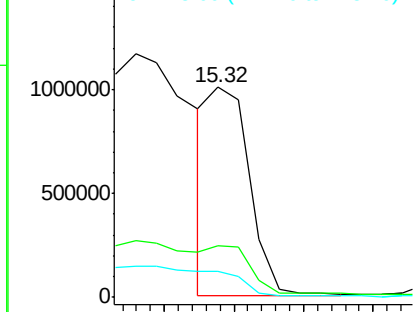


Abundance

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



#89
Benzo(a)pyrene
Concen: 195.786 ng/mL
RT: 15.70 min Scan# 2314
Delta R.T. 0.05 min
Lab File: BF103896.D
Acq: 23 Mar 2018 23:11

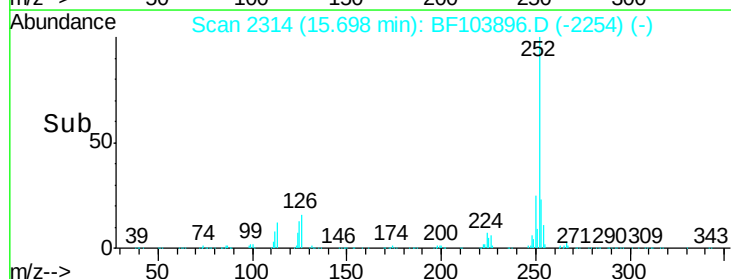
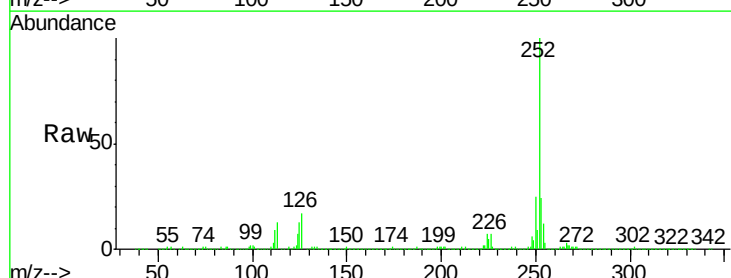
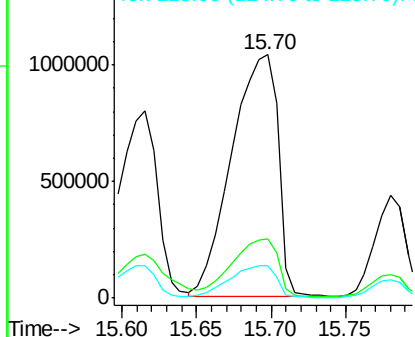
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.1	25.7
125	13.4	9.8	14.6

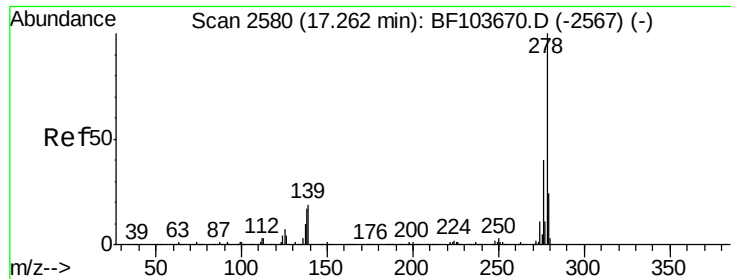
Abundance

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





#90

Dibenzo(a,h)anthracene

Concen: 34.777 ng

RT: 17.36 min Scan# 2597

Delta R.T. 0.05 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Instrument :

BNA_F

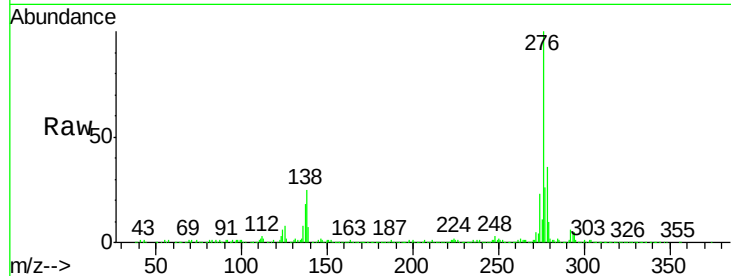
ClientSampleId :

A2_SB43_S_4

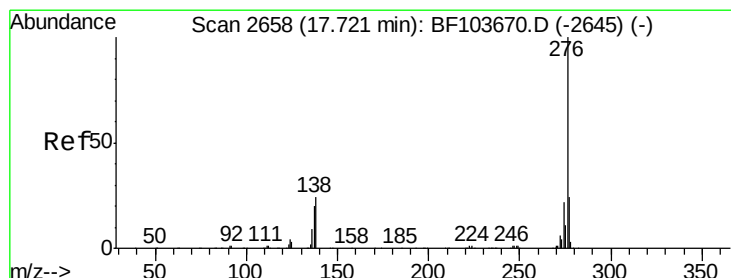
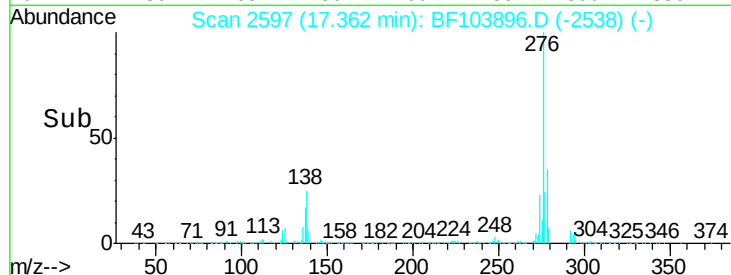
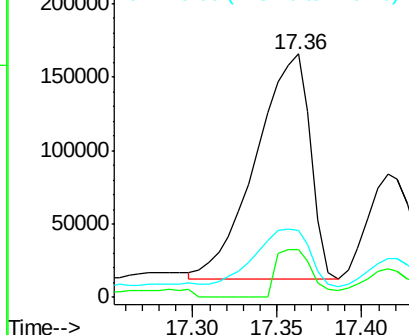
Tot Ion:	278	Resp:	343809
Ion Ratio	Lower	Upper	
278	100		
139	19.6	15.9	23.9
279	27.6	19.0	28.4

Manual Integrations
APPROVED

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



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



#91

Benzo(g,h,i)perylene

Concen: 119.425 ng

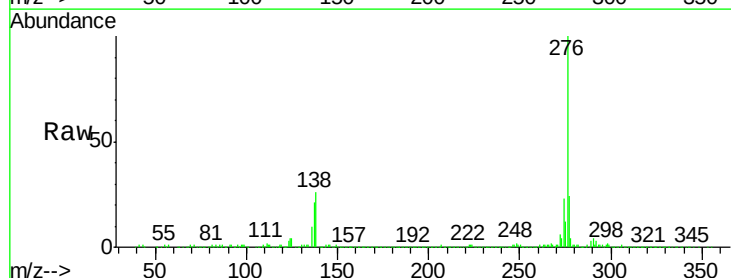
RT: 17.85 min Scan# 2680

Delta R.T. 0.07 min

Lab File: BF103896.D

Acq: 23 Mar 2018 23:11

Tgt Ion:	276	Resp:	1148579
Ion Ratio	Lower	Upper	
276	100		
277	24.2	17.9	26.9
138	25.7	21.8	32.8



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

