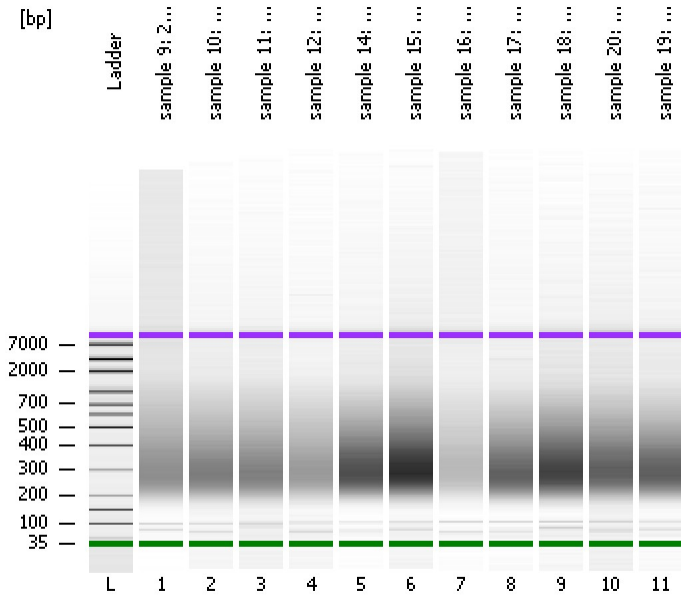


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
Modified: 9/14/2015 9:45:28 AM

**Electrophoresis File Run Summary**



Instrument Information:

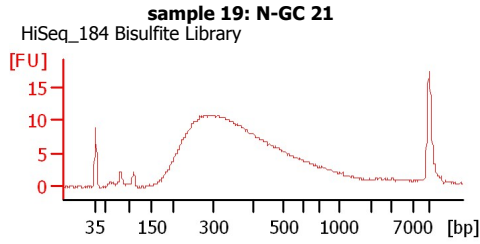
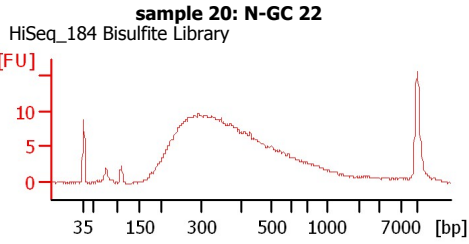
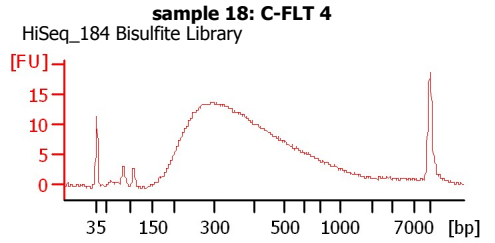
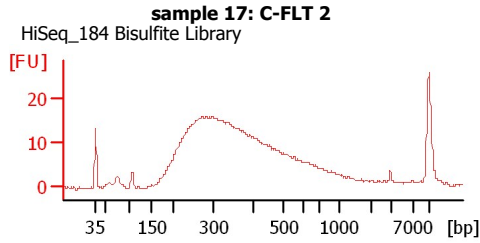
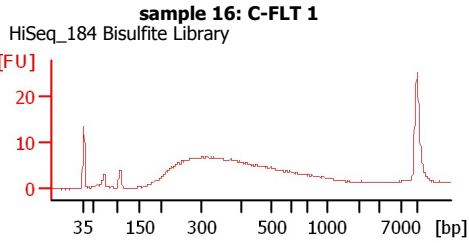
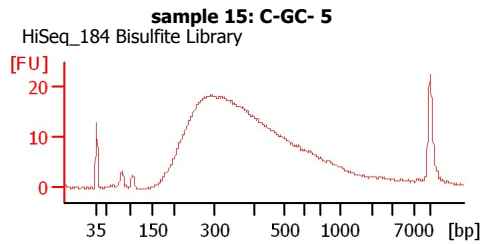
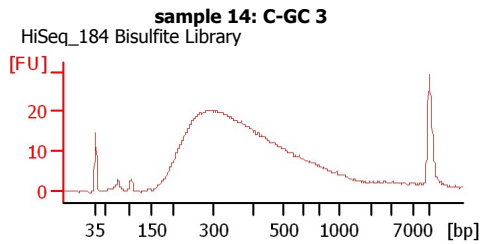
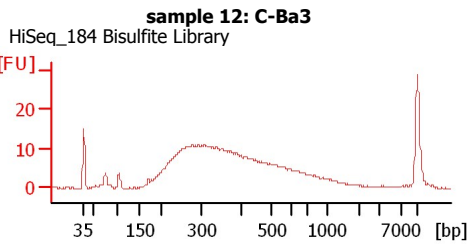
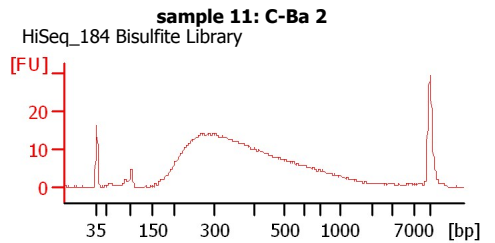
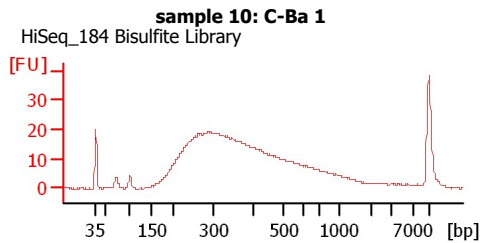
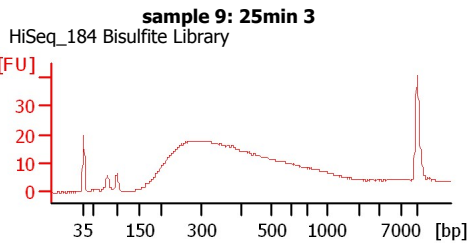
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 9: 25min 3	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 10: C-Ba 1	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 11: C-Ba 2	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 12: C-Ba3	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 14: C-GC 3	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 15: C-GC- 5	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 16: C-FLT 1	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 17: C-FLT 2	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 18: C-FLT 4	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 20: N-GC 22	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
sample 19: N-GC 21	HiSeq_184 Bisulfite Library	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
<b>Chip Lot #</b>				<b>Reagent Kit Lot #</b>		

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
Modified: 9/14/2015 9:45:28 AM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 33.05  
Integration End Time [s] : 137  
Slope Threshold : 0.8  
Height Threshold [FU] : 1.5  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

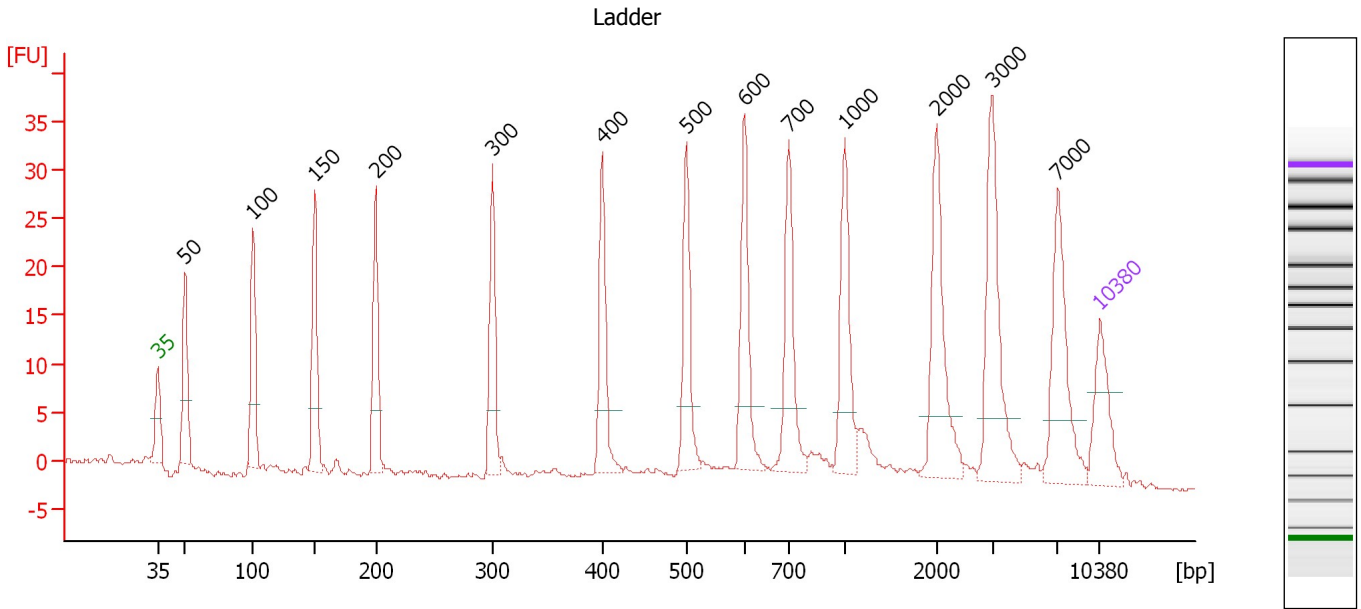
**Ladder**

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

**Peak table for Ladder**

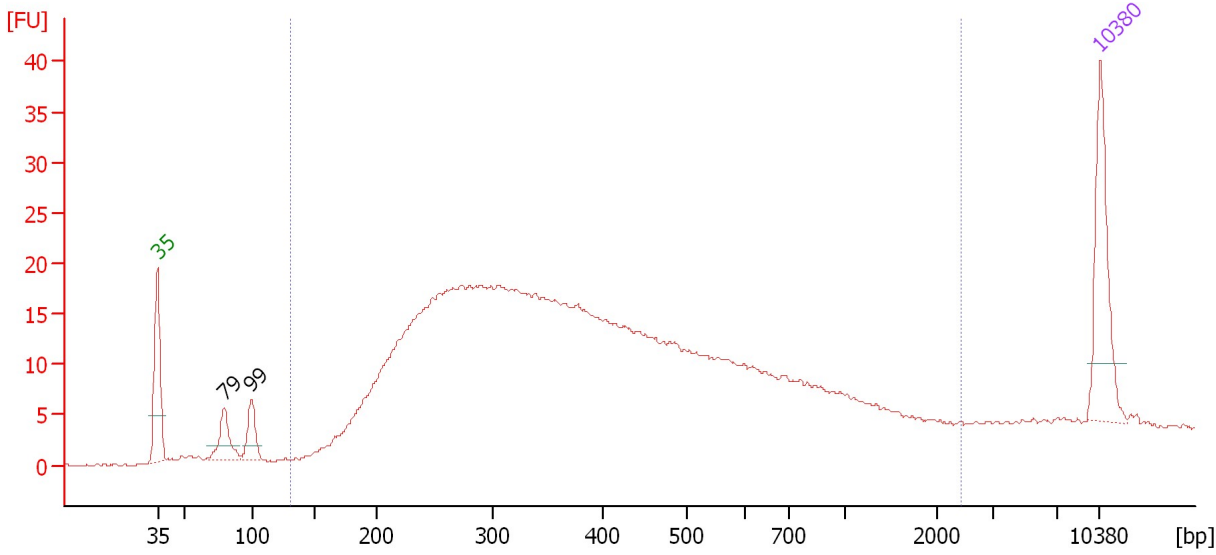
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.02
3	100	150.00	2,272.7	Ladder Peak	50.09
4	150	150.00	1,515.2	Ladder Peak	54.68
5	200	150.00	1,136.4	Ladder Peak	59.20
6	300	150.00	757.6	Ladder Peak	67.88
7	400	150.00	568.2	Ladder Peak	76.01
8	500	150.00	454.5	Ladder Peak	82.31
9	600	150.00	378.8	Ladder Peak	86.59
10	700	150.00	324.7	Ladder Peak	89.89
11	1,000	150.00	227.3	Ladder Peak	94.05
12	2,000	150.00	113.6	Ladder Peak	100.90
13	3,000	150.00	75.8	Ladder Peak	104.99
14	7,000	150.00	32.5	Ladder Peak	109.88
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 9: 25min 3 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 1 : sample 9: 25min 3**

Number of peaks found: 2                      Corr. Area 1: 587.1  
 Noise: 0.2

**Peak table for sample 1 : sample 9: 25min 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	79	42.33	815.1		47.93
3	99	36.63	562.9		49.95
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 1 : sample 9: 25min 3**

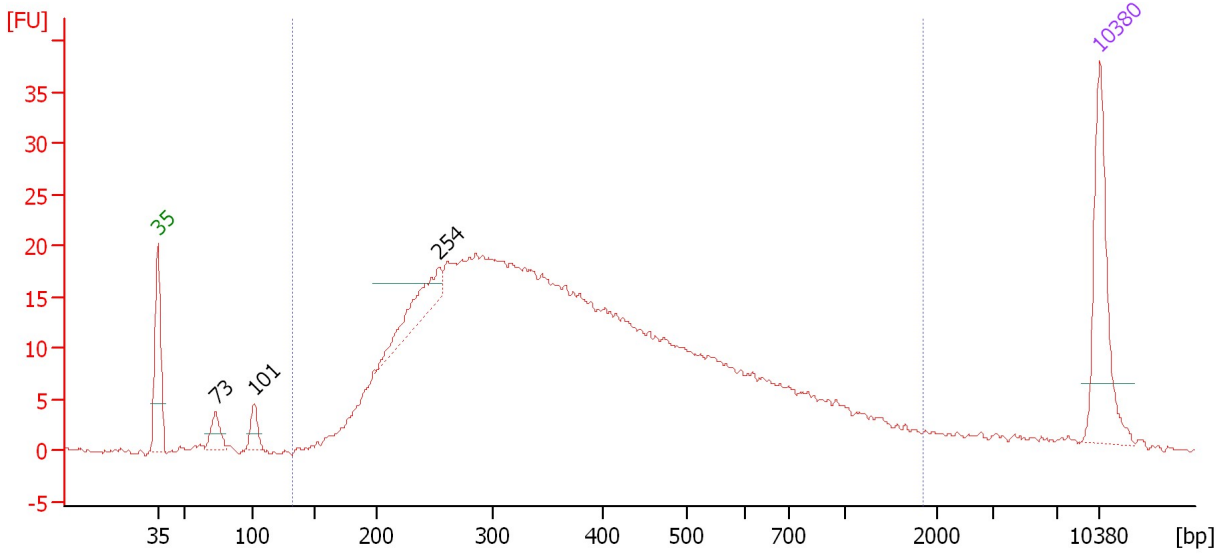
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
130	475	2,418	587.1	9,716.4	88	72.4	2,125.52

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 10: C-Ba 1 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 2 : sample 10: C-Ba 1**

Number of peaks found: 3                      Corr. Area 1: 602.8  
 Noise: 0.3

**Peak table for sample 2 : sample 10: C-Ba 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	73	24.49	510.8		47.31
3	101	20.11	302.9		50.15
4	254	49.49	294.7		63.93
5	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 2 : sample 10: C-Ba 1**

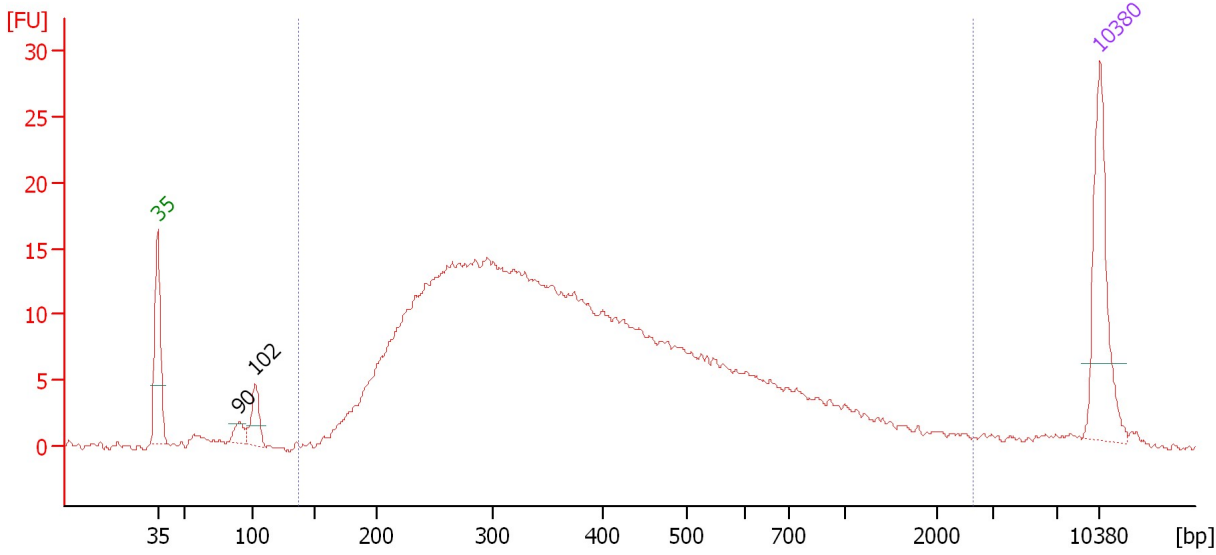
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
132	433	1,847	602.8	8,917.8	91	60.0	1,918.21

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 11: C-Ba 2 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 3 : sample 11: C-Ba 2**

Number of peaks found: 2                      Corr. Area 1: 447.3  
 Noise: 0.3

**Peak table for sample 3 : sample 11: C-Ba 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	90	14.43	243.2		49.07
3	102	31.51	469.7		50.24
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : sample 11: C-Ba 2**

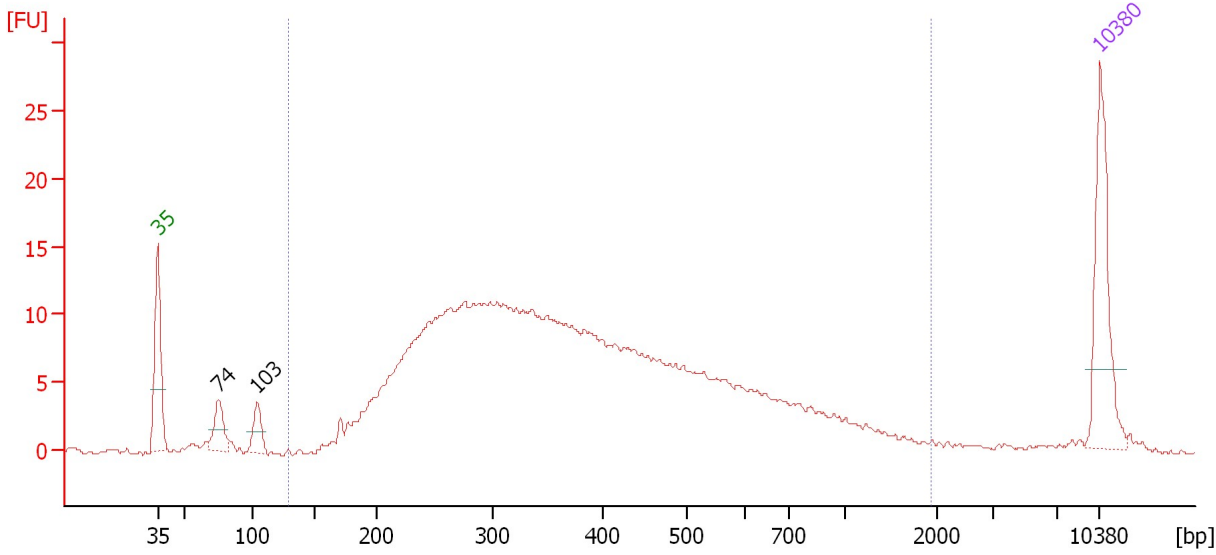
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
137	458	2,641	447.3	8,466.3	92	73.9	1,831.33

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 12: C-Ba3 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 4 : sample 12: C-Ba3**

Number of peaks found: 2                      Corr. Area 1: 333.1  
 Noise: 0.3

**Peak table for sample 4 : sample 12: C-Ba3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	74	33.04	672.4		47.50
3	103	26.61	389.6		50.41
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : sample 12: C-Ba3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
129	428	1,943	333.1	6,697.5	93	57.5	1,458.60

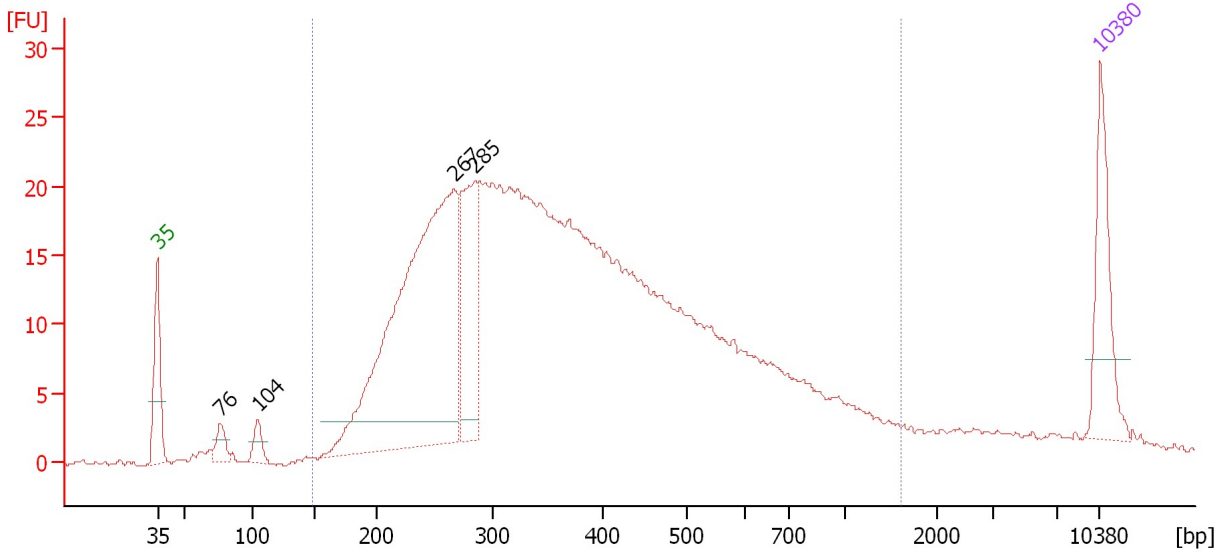


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 14: C-GC 3 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 5 : sample 14: C-GC 3**

Number of peaks found: 4                      Corr. Area 1: 611.1  
 Noise: 0.3

**Peak table for sample 5 : sample 14: C-GC 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	76	23.20	463.0		47.65
3	104	22.36	326.5		50.44
4	267	615.77	3,489.5		65.05
5	285	162.73	865.2		66.58
6	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 5 : sample 14: C-GC 3**

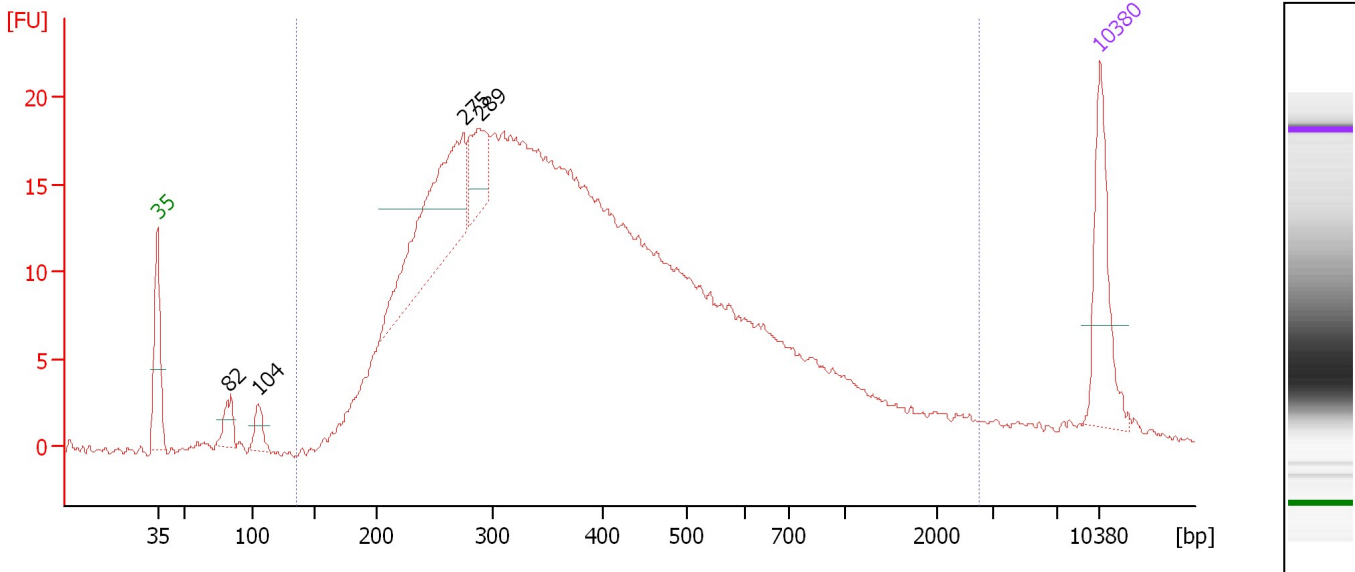
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
148	416	1,612	611.1	12,428.5	89	52.5	2,687.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 15: C-GC- 5 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 6 : sample 15: C-GC- 5**

Number of peaks found: 4                      Corr. Area 1: 561.2  
 Noise: 0.2

**Peak table for sample 6 : sample 15: C-GC- 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	82	30.00	557.1		48.22
3	104	24.83	361.4		50.47
4	275	212.14	1,167.5		65.74
5	289	56.60	296.7		66.93
6	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : sample 15: C-GC- 5**

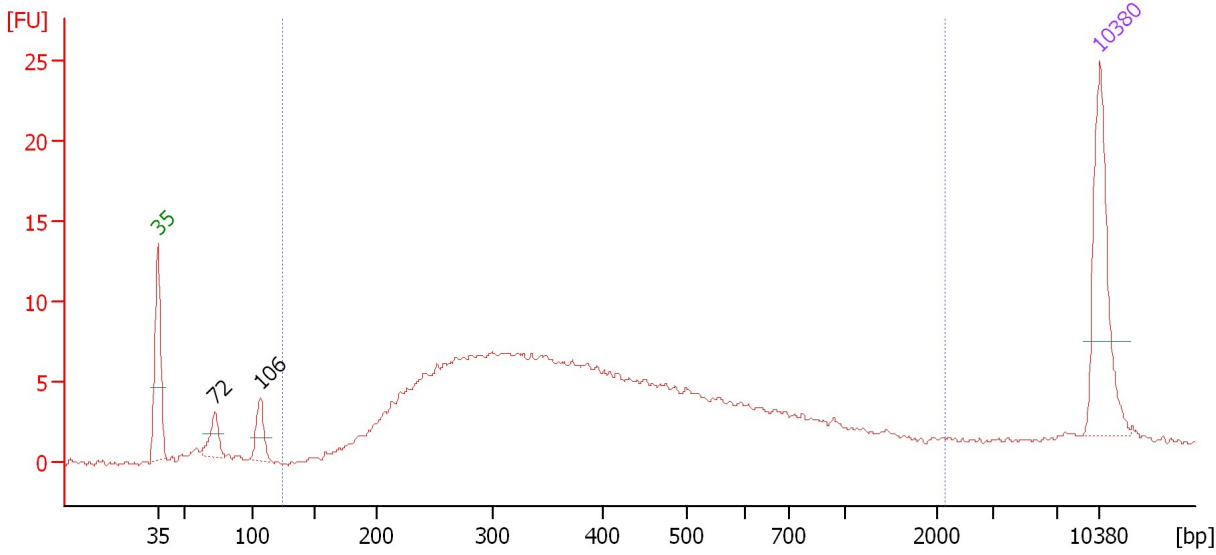
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
136	473	2,779	561.2	13,721.2	93	77.0	3,055.81

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 16: C-FLT 1 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 7 : sample 16: C-FLT 1**

Number of peaks found: 2                      Corr. Area 1: 213.1  
 Noise: 0.2

**Peak table for sample 7 : sample 16: C-FLT 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	72	26.23	548.7		47.29
3	106	30.55	435.9		50.66
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 7 : sample 16: C-FLT 1**

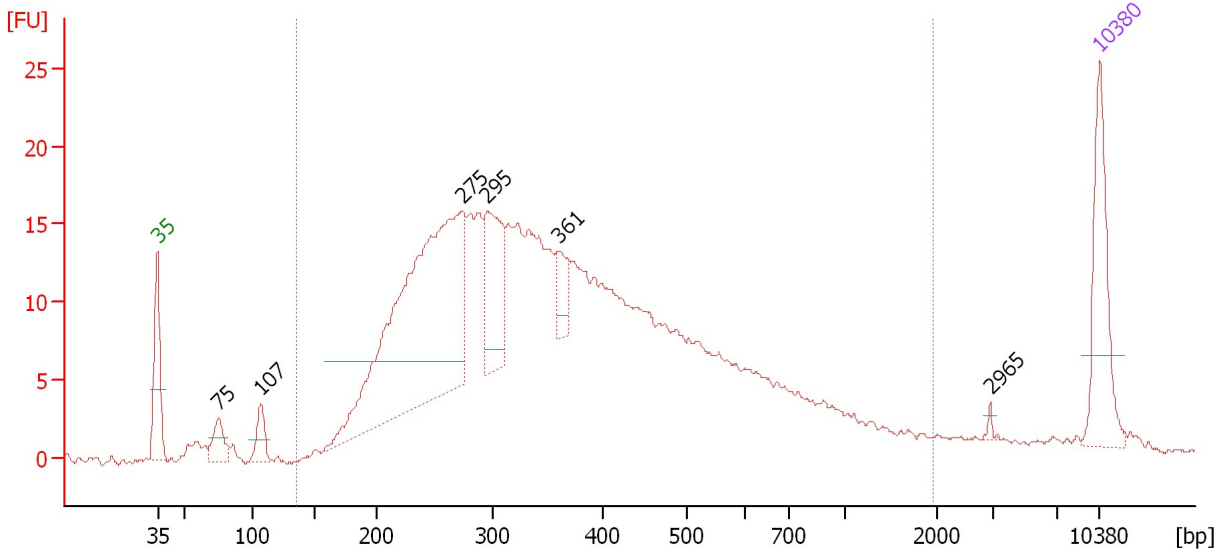
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
123	466	2,131	213.1	4,571.1	84	66.0	1,026.97

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 17: C-FLT 2 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 8 : sample 17: C-FLT 2**

Number of peaks found: 6                      Corr. Area 1: 458.4  
 Noise: 0.2

**Peak table for sample 8 : sample 17: C-FLT 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	75	29.98	604.1		47.57
3	107	28.95	411.7		50.69
4	275	474.84	2,620.8		65.67
5	295	96.59	495.9		67.46
6	361	26.82	112.6		72.83
7	2,965	2.55	1.3		104.85
8	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 8 : sample 17: C-FLT 2**

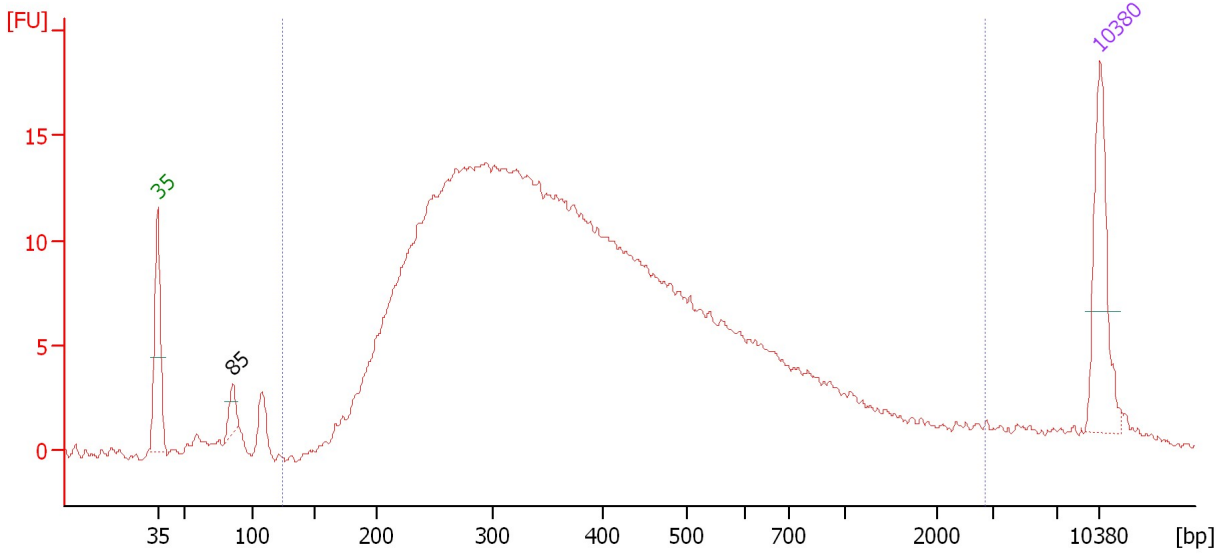
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
135	417	1,950	458.4	10,479.1	92	59.4	2,225.19

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 18: C-FLT 4 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 9 : sample 18: C-FLT 4**

Number of peaks found: 1                      Corr. Area 1: 423.0  
 Noise: 0.2

**Peak table for sample 9 : sample 18: C-FLT 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	85	22.95	408.9		48.57
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 9 : sample 18: C-FLT 4**

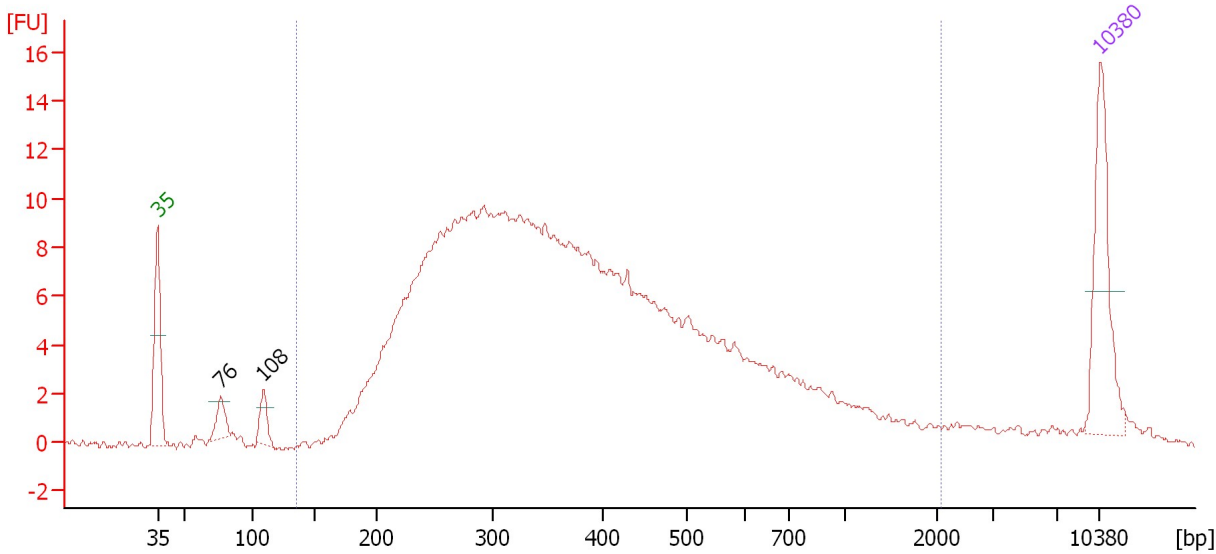
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
124	462	2,869	423.0	13,370.6	93	77.7	2,922.77

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**

sample 20: N-GC 22 [ HiSeq\_184 Bisulfite Library ]



**Overall Results for sample 10 : sample 20: N-GC 22**

Number of peaks found: 2                      Corr. Area 1: 284.5  
 Noise: 0.2

**Peak table for sample 10 : sample 20: N-GC 22**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	76	22.88	455.6		47.67
3	108	23.23	324.5		50.87
4	10,380	75.00	10.9	Upper Marker	113.00

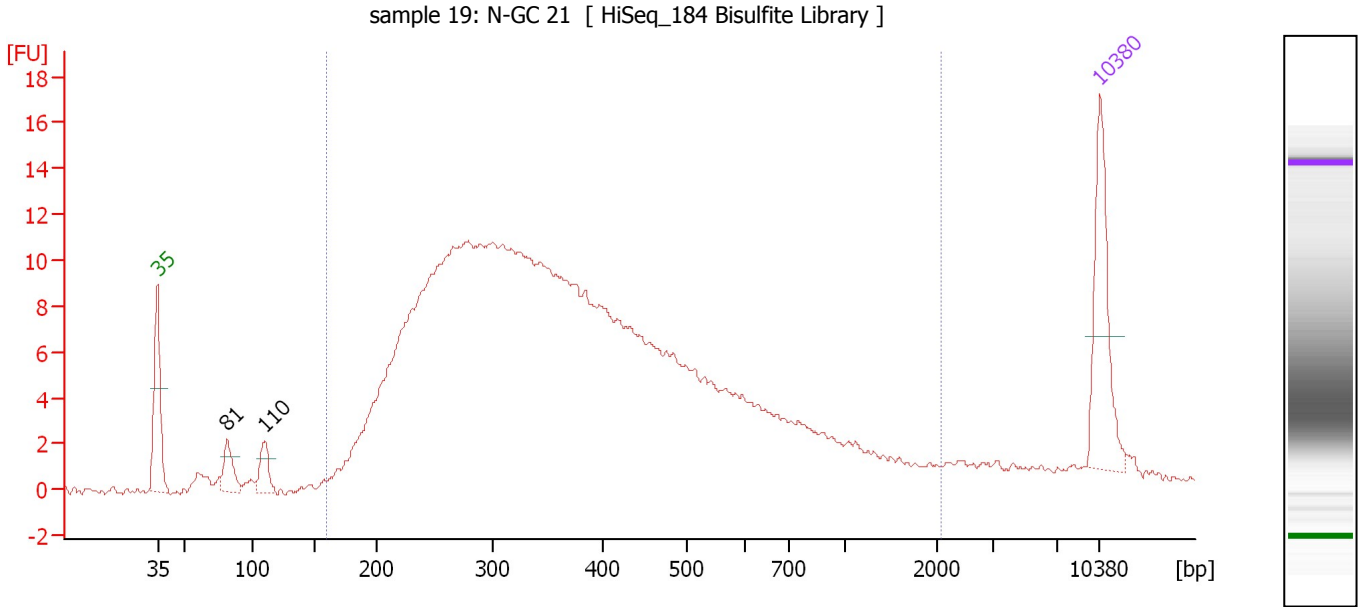
**Region table for sample 10 : sample 20: N-GC 22**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
135	436	2,078	284.5	9,431.2	91	62.1	2,070.36

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
 Modified: 9/14/2015 9:45:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 19: N-GC 21**

Number of peaks found: 2                      Corr. Area 1: 314.1  
 Noise: 0.2

**Peak table for sample 11 : sample 19: N-GC 21**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	31.08	581.8		48.16
3	110	27.74	383.5		50.97
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : sample 19: N-GC 21**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
160	428	2,061	314.1	10,791.3	91	62.4	2,332.58

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11\_003.xad

Created: 9/11/2015 1:05:04 PM  
Modified: 9/14/2015 9:45:28 AM

**Gel Image**

