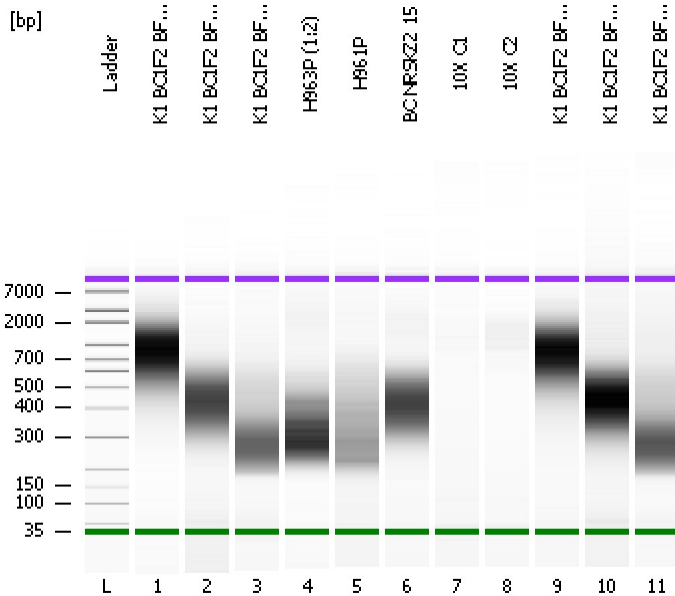


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
Modified: 5/22/2017 2:11:19 PM

**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

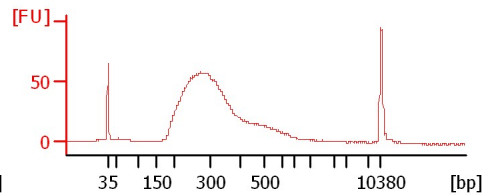
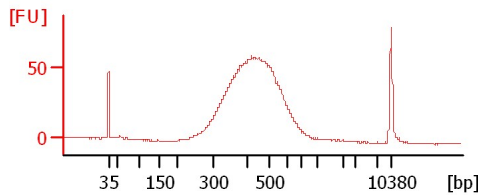
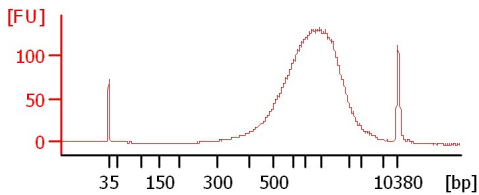
Chip Information:

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

**K1 BC1F2 BF1a**

**K1 BC1F2 BF2a**

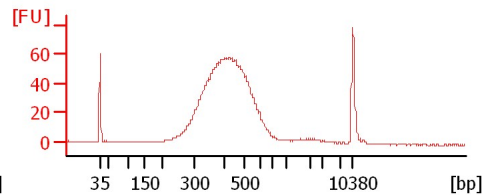
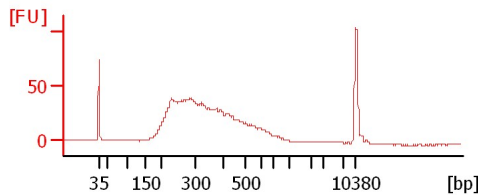
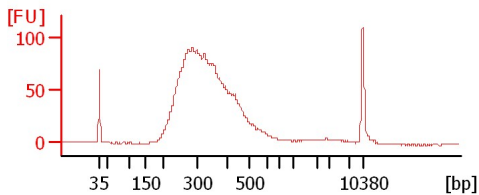
**K1 BC1F2 BF3a**



**H963P (1:2)**

**H961P**

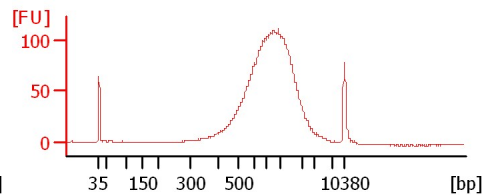
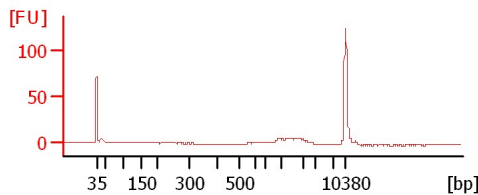
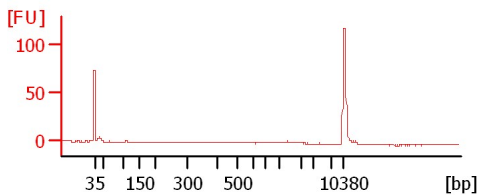
**BC NRSK22 15**



**10X C1**

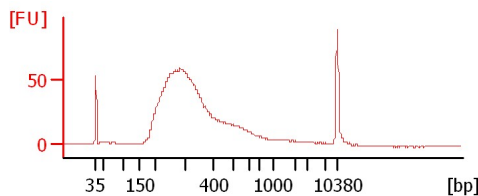
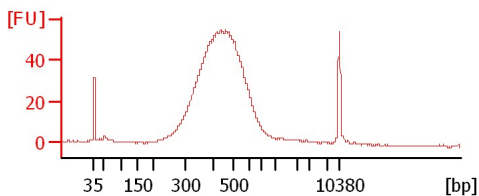
**10X C2**

**K1 BC1F2 BF1b**



**K1 BC1F2 BF2b**

**K1 BC1F2 BF3b**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
Modified: 5/22/2017 2:11:19 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
K1 BC1F2 BF1a		<input type="checkbox"/>	✓			
K1 BC1F2 BF2a		<input type="checkbox"/>	✓			
K1 BC1F2 BF3a		<input type="checkbox"/>	✓			
H963P (1:2)		<input type="checkbox"/>	✓			
H961P		<input type="checkbox"/>	✓			
BC NRSKZ2 15		<input type="checkbox"/>	✓			
10X C1		<input type="checkbox"/>	✓			
10X C2		<input type="checkbox"/>	✓			
K1 BC1F2 BF1b		<input type="checkbox"/>	✓			
K1 BC1F2 BF2b		<input type="checkbox"/>	✓			
K1 BC1F2 BF3b		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

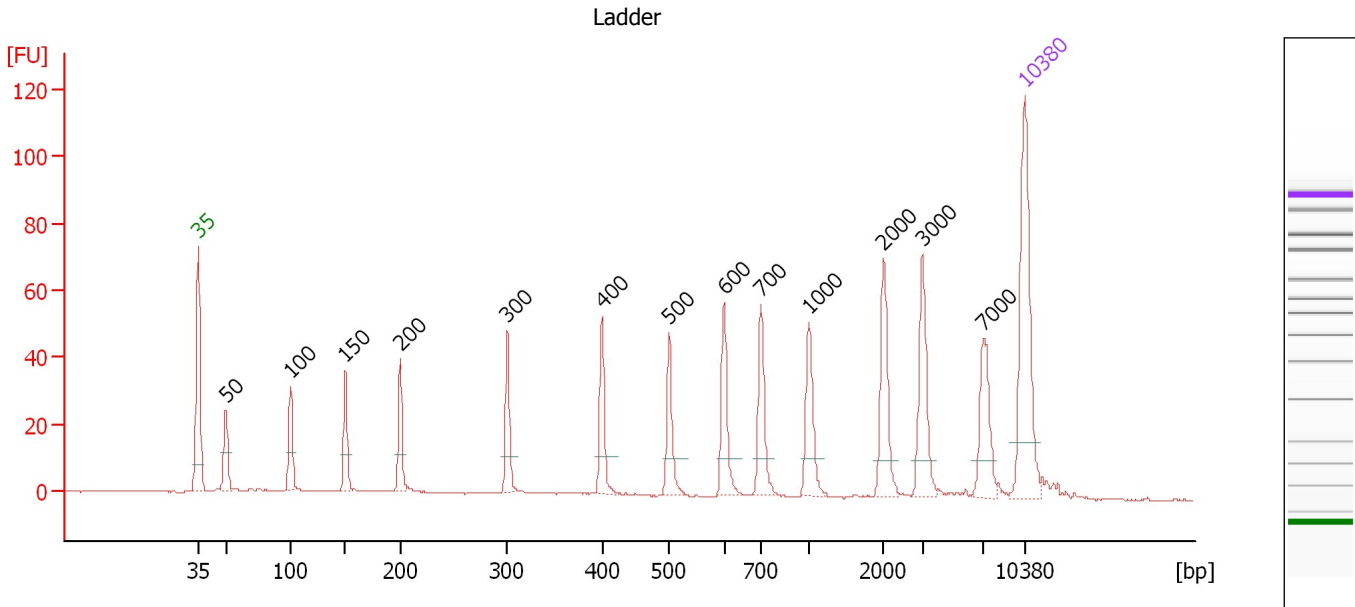
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

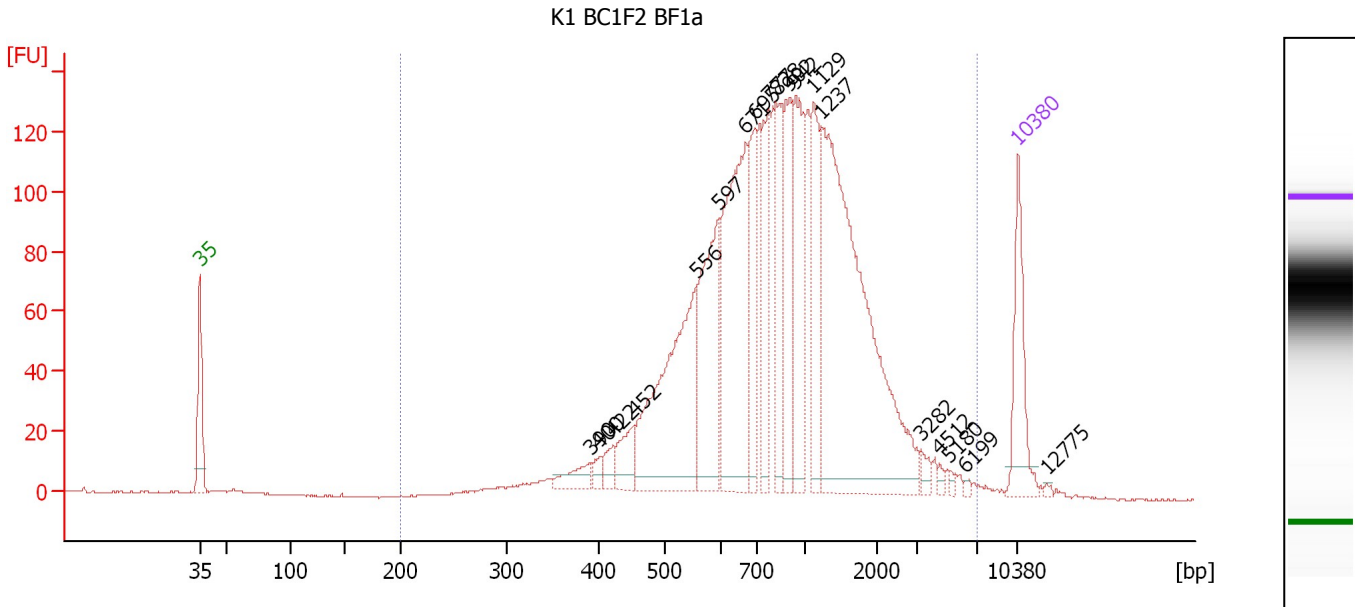
**Peak table for Ladder**

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.81
4	150	150.00	1,515.2	Ladder Peak	55.46
5	200	150.00	1,136.4	Ladder Peak	60.12
6	300	150.00	757.6	Ladder Peak	69.19
7	400	150.00	568.2	Ladder Peak	77.19
8	500	150.00	454.5	Ladder Peak	82.88
9	600	150.00	378.8	Ladder Peak	87.53
10	700	150.00	324.7	Ladder Peak	90.65
11	1,000	150.00	227.3	Ladder Peak	94.71
12	2,000	150.00	113.6	Ladder Peak	101.03
13	3,000	150.00	75.8	Ladder Peak	104.33
14	7,000	150.00	32.5	Ladder Peak	109.52
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : K1 BC1F2 BF1a**

Number of peaks found: 19                      Corr. Area 1: 2,400.8  
 Noise: 0.2

**Peak table for sample 1 : K1 BC1F2 BF1a**

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	390	29.75	115.5		76.40
3	400	11.68	44.2		77.18
4	422	21.65	77.8		78.41
5	452	42.22	141.5		80.14
6	556	287.97	784.7		85.48
7	597	182.22	462.3		87.40
8	671	302.21	682.9		89.73
9	695	104.28	227.2		90.50
10	777	103.98	202.7		91.69
11	828	98.18	179.7		92.37
12	902	107.37	180.4		93.38
13	942	128.90	207.3		93.93
14	1,129	107.06	143.7		95.52
15	1,237	509.87	624.6		96.21
16	3,282	10.45	4.8		104.69
17	4,512	4.48	1.5		106.29
18	5,180	3.68	1.1		107.16
19	6,199	2.68	0.7		108.48
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,775	0.00	0.0		115.46

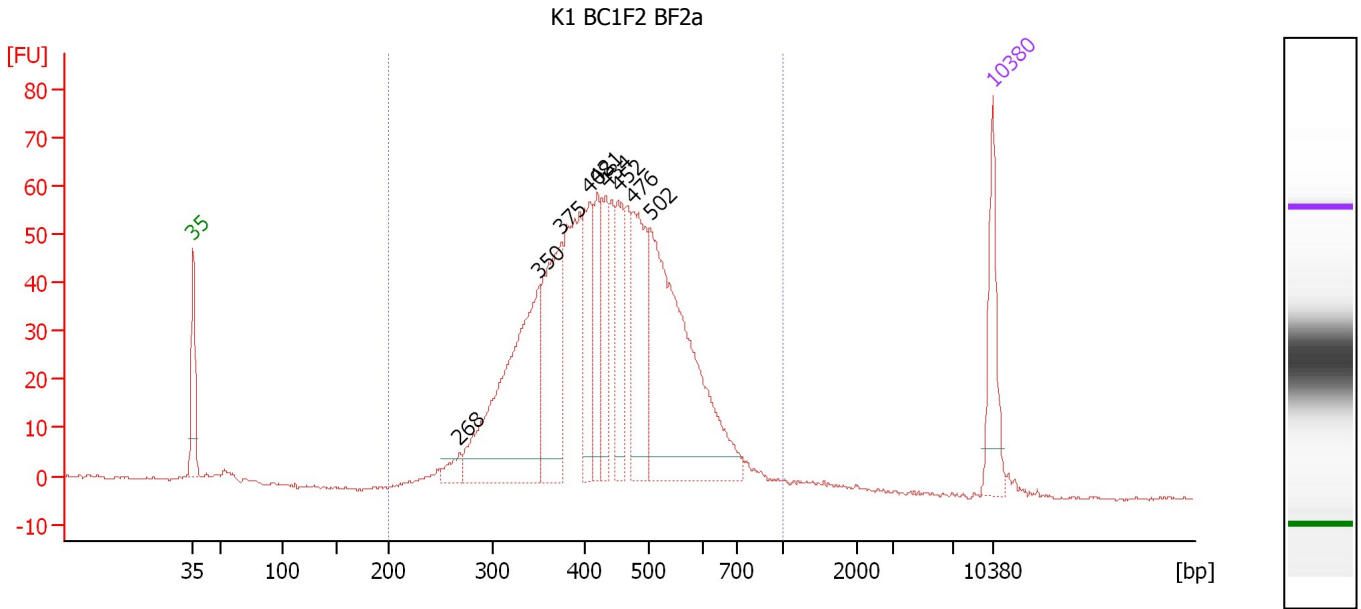
**Region table for sample 1 : K1 BC1F2 BF1a**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	6,976	1,063	2,400.8	4,774.7	2,364.66	99	71.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : K1 BC1F2 BF2a**

Number of peaks found: 9                      Corr. Area 1: 1,206.1  
 Noise: 0.3

**Peak table for sample 2 : K1 BC1F2 BF2a**

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	268	26.70	150.9		66.30
3	350	395.51	1,710.7		73.21
4	375	229.75	927.3		75.22
5	408	124.80	463.3		77.65
6	421	82.67	297.3		78.40
7	434	100.60	350.9		79.14
8	452	103.30	345.9		80.17
9	476	179.88	572.3		81.53
10	502	466.76	1,408.6		82.97
11	10,380	75.00	10.9	Upper Marker	113.00

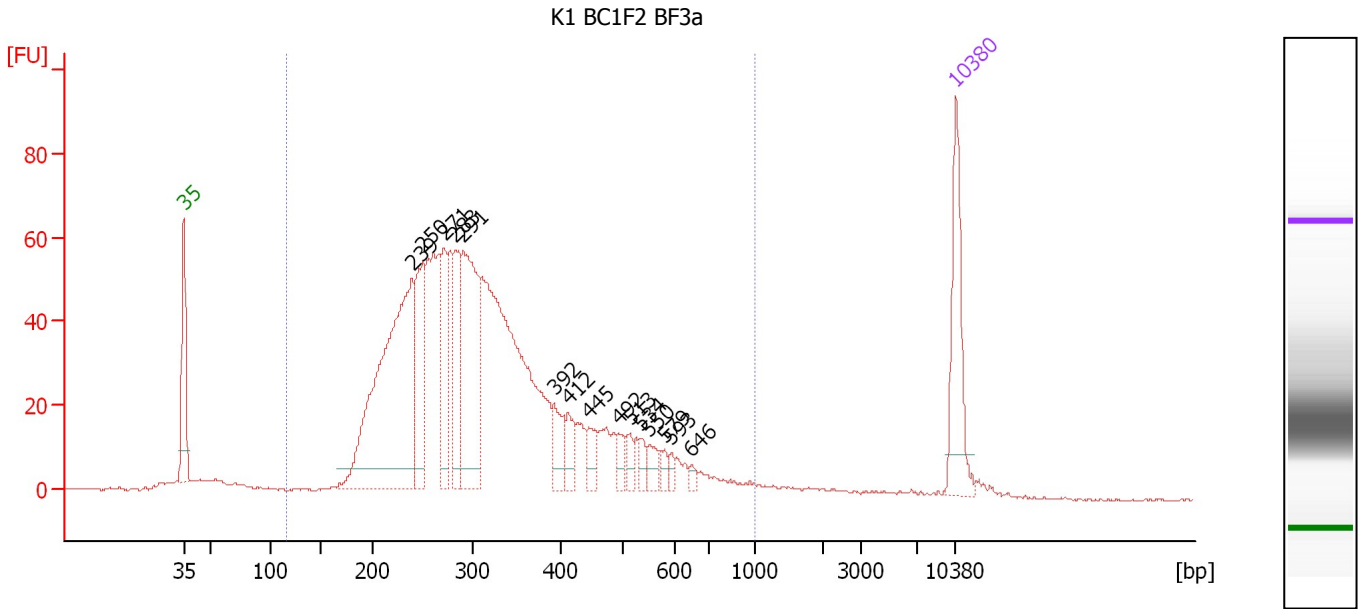
**Region table for sample 2 : K1 BC1F2 BF2a**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	445	1,206.1	8,006.6	2,189.32	98	23.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : K1 BC1F2 BF3a**

Number of peaks found: 15      Corr. Area 1: 1,366.0  
 Noise: 0.3

**Peak table for sample 3 : K1 BC1F2 BF3a**

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	239	433.72	2,745.3		63.69
3	250	121.74	737.7		64.66
4	271	81.28	453.9		66.59
5	283	90.97	487.9		67.61
6	291	198.59	1,035.8		68.33
7	392	38.48	148.7		76.55
8	412	26.13	96.1		77.85
9	445	23.85	81.2		79.74
10	492	14.13	43.6		82.40
11	513	14.40	42.6		83.46
12	534	10.91	30.9		84.48
13	550	15.19	41.8		85.20
14	579	7.93	20.7		86.56
15	593	7.12	18.2		87.19
16	646	6.08	14.3		88.97
17	10,380	75.00	10.9	Upper Marker	113.00

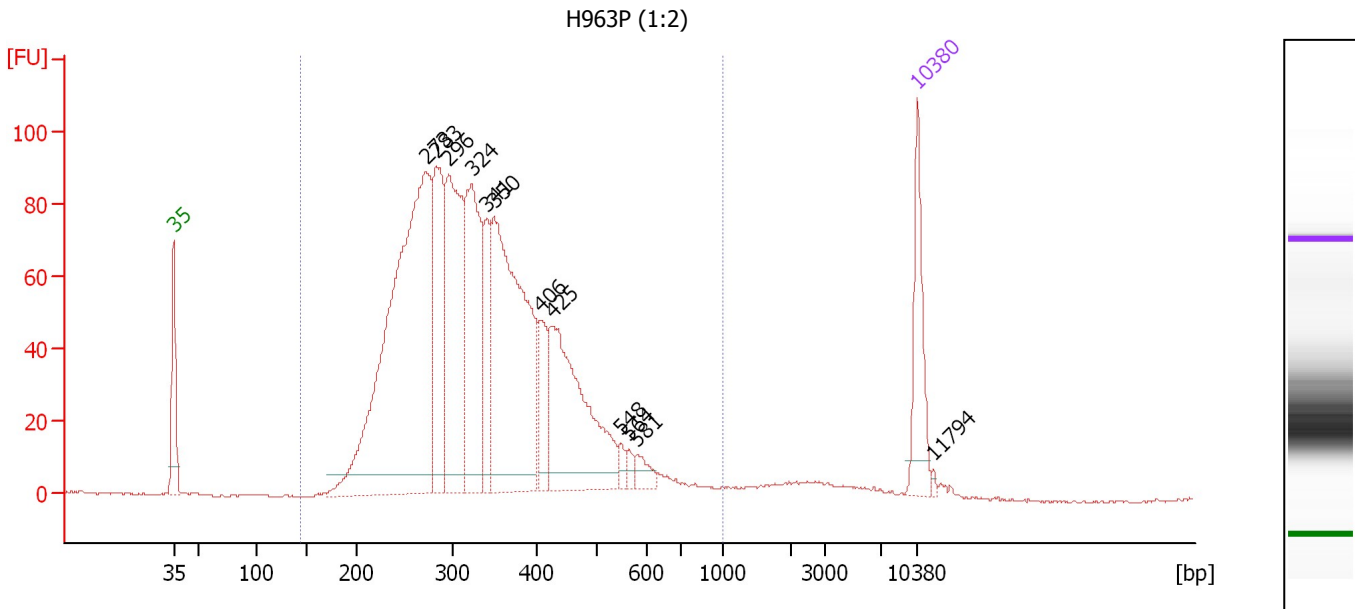
**Region table for sample 3 : K1 BC1F2 BF3a**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
117	1,000	330	1,366.0	10,227.0	1,956.70	96	35.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : H963P (1:2)**

Number of peaks found: 12                      Corr. Area 1: 2,034.7  
 Noise: 0.2

**Peak table for sample 4 : H963P (1:2)**

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	273	846.30	4,698.5		66.73
3	283	210.94	1,127.7		67.69
4	296	313.75	1,605.3		68.84
5	324	272.67	1,275.7		71.10
6	341	87.81	390.4		72.46
7	350	468.13	2,028.9		73.16
8	406	65.58	244.8		77.52
9	425	278.49	992.1		78.63
10	548	11.24	31.1		85.10
11	564	10.06	27.0		85.85
12	581	18.57	48.4		86.66
13	10,380	75.00	10.9	Upper Marker	113.00
14	11,794	0.00	0.0		114.46

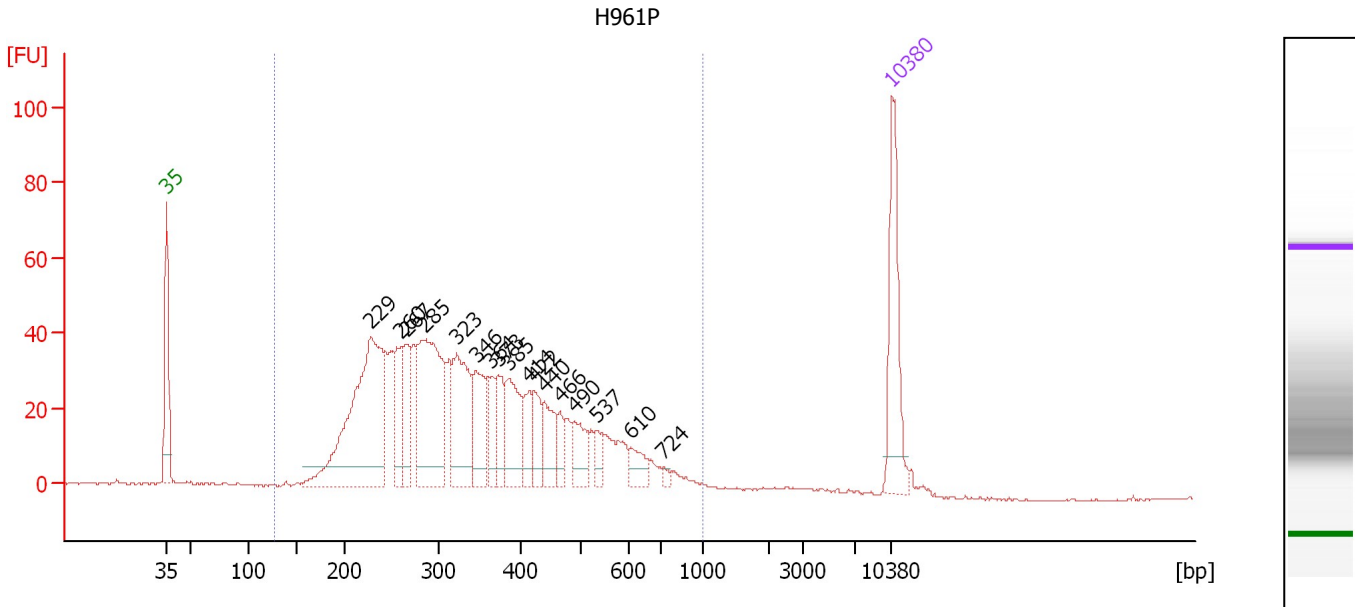
**Region table for sample 4 : H963P (1:2)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
144	1,000	343	2,034.7	13,050.9	2,688.88	97	28.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : H961P**

Number of peaks found: 17                      Corr. Area 1: 1,150.2  
 Noise: 0.2

**Peak table for sample 5 : H961P**

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	229	295.76	1,955.3		62.76
3	260	62.96	366.4		65.60
4	267	48.62	276.3		66.16
5	285	186.46	990.2		67.86
6	323	113.88	534.9		71.00
7	346	64.08	280.8		72.85
8	364	32.20	133.9		74.35
9	373	37.94	153.9		75.07
10	385	68.28	268.7		75.99
11	414	30.29	110.8		78.00
12	422	31.21	112.0		78.46
13	440	41.11	141.7		79.44
14	466	17.14	55.8		80.93
15	490	33.20	102.6		82.32
16	537	14.01	39.6		84.59
17	610	19.13	47.5		87.83
18	724	4.28	9.0		90.97
19	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 5 : H961P**

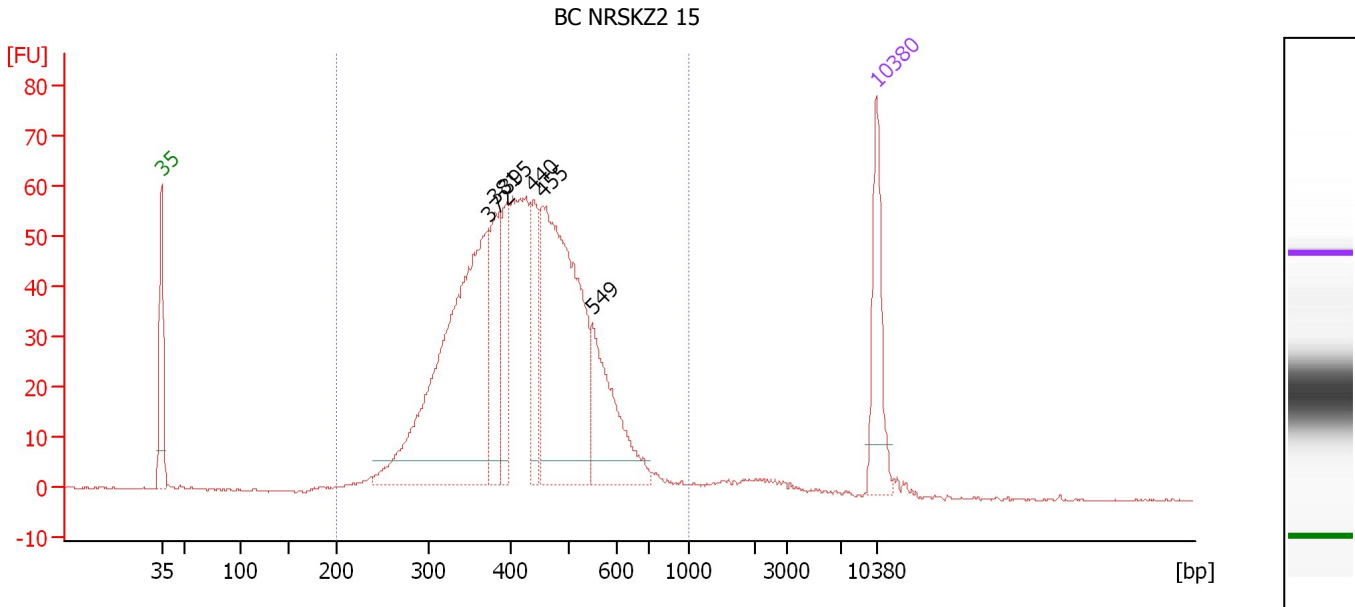
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
128	1,000	358	1,150.2	6,872.9	1,383.76	98	36.6



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : BC NRSKZ2 15**

Number of peaks found: 6                      Corr. Area 1: 1,176.9  
 Noise: 0.2

**Peak table for sample 6 : BC NRSKZ2 15**

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	372	532.90	2,170.7		74.95
3	381	108.47	431.2		75.68
4	395	82.91	318.2		76.77
5	440	96.00	331.0		79.44
6	455	412.55	1,373.5		80.32
7	549	138.17	381.0		85.18
8	10,380	75.00	10.9	Upper Marker	113.00

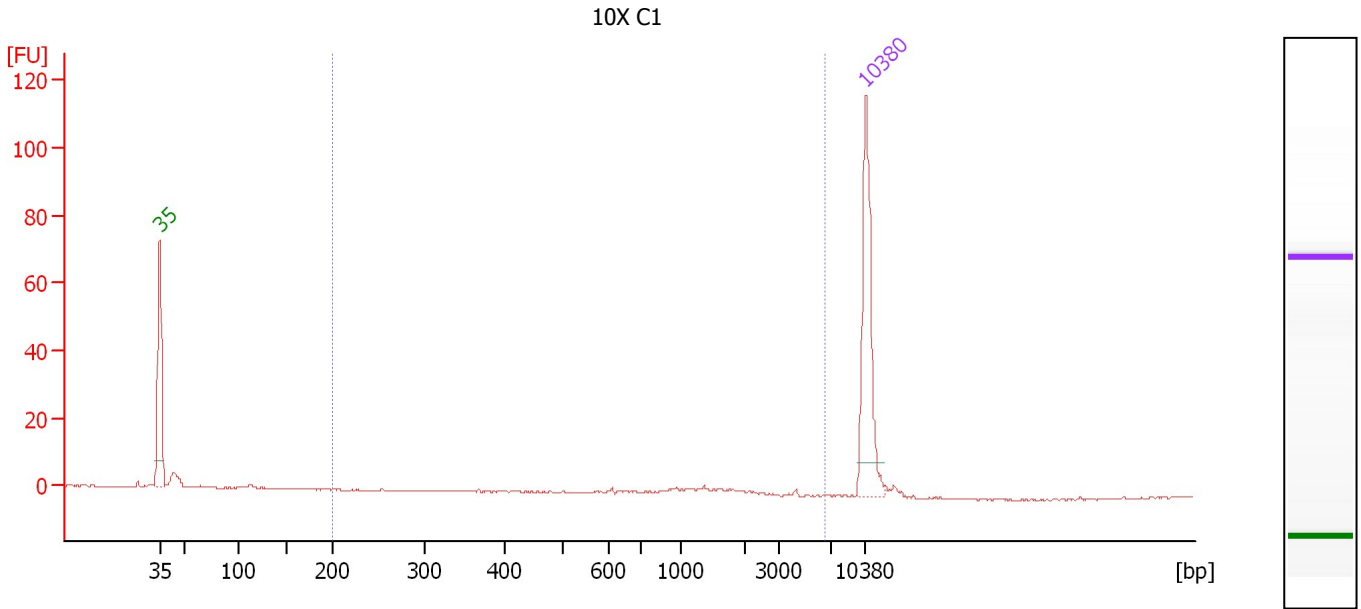
**Region table for sample 6 : BC NRSKZ2 15**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	430	1,176.9	6,589.9	1,741.15	97	23.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 10X C1**

Number of peaks found: 0                      Corr. Area 1: 5.7  
 Noise: 0.2

**Peak table for sample 7 : 10X C1**

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	10,380	75.00	10.9	Upper Marker	113.00

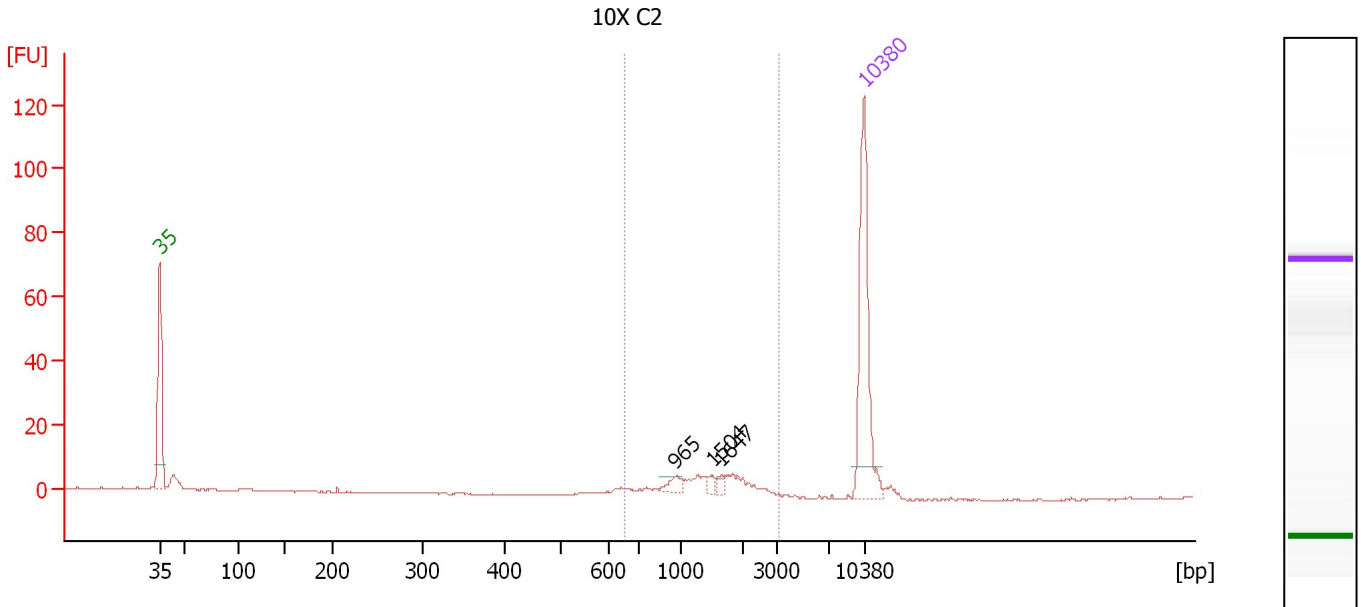
**Region table for sample 7 : 10X C1**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	6,496	1,439	5.7	5.6	4.68	28	44.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 10X C2**

Number of peaks found: 3                      Corr. Area 1: 50.1  
 Noise: 0.2

**Peak table for sample 8 : 10X C2**

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	965	6.19	9.7		94.24
3	1,504	3.20	3.2		97.90
4	1,647	3.42	3.1		98.80
5	10,380	75.00	10.9	Upper Marker	113.00

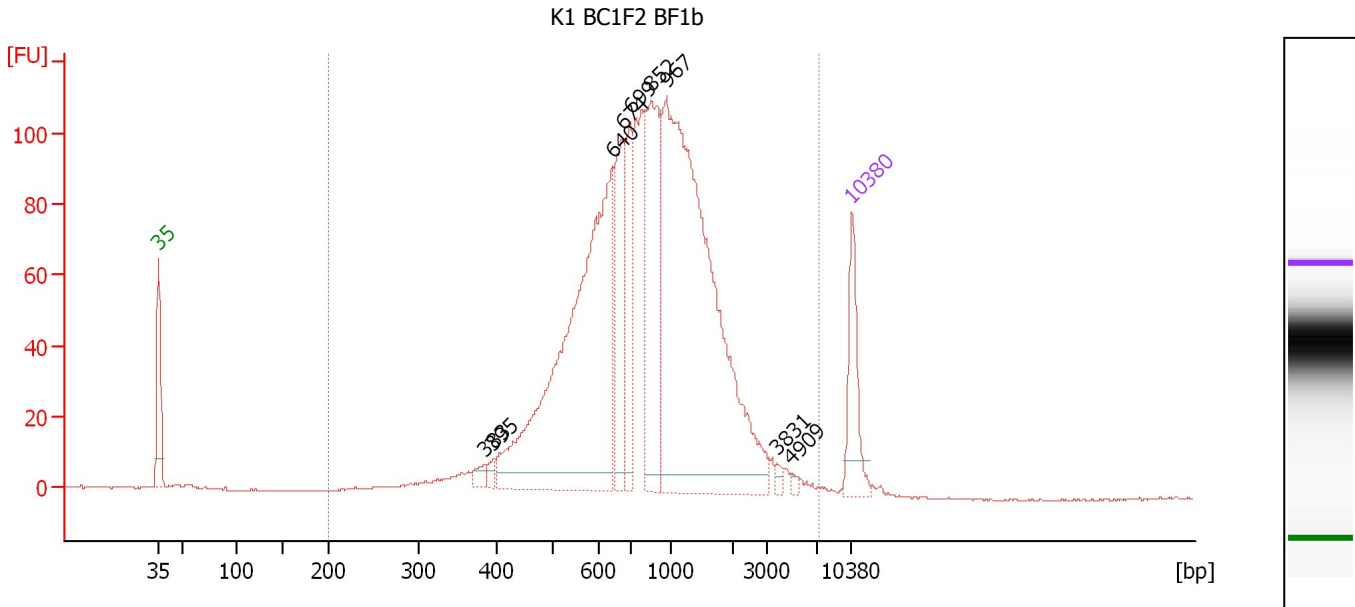
**Region table for sample 8 : 10X C2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
653	3,075	1,462	50.1	44.4	38.00	75	33.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : K1 BC1F2 BF1b**

Number of peaks found: 9                      Corr. Area 1: 1,849.7  
 Noise: 0.1

**Peak table for sample 9 : K1 BC1F2 BF1b**

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	383	15.30	60.5		75.85
3	395	12.03	46.2		76.76
4	640	716.51	1,696.8		88.77
5	674	163.83	368.1		89.85
6	699	115.68	250.9		90.60
7	852	249.40	443.7		92.70
8	967	847.00	1,327.2		94.26
9	3,831	6.73	2.7		105.41
10	4,909	5.40	1.7		106.81
11	10,380	75.00	10.9	Upper Marker	113.00

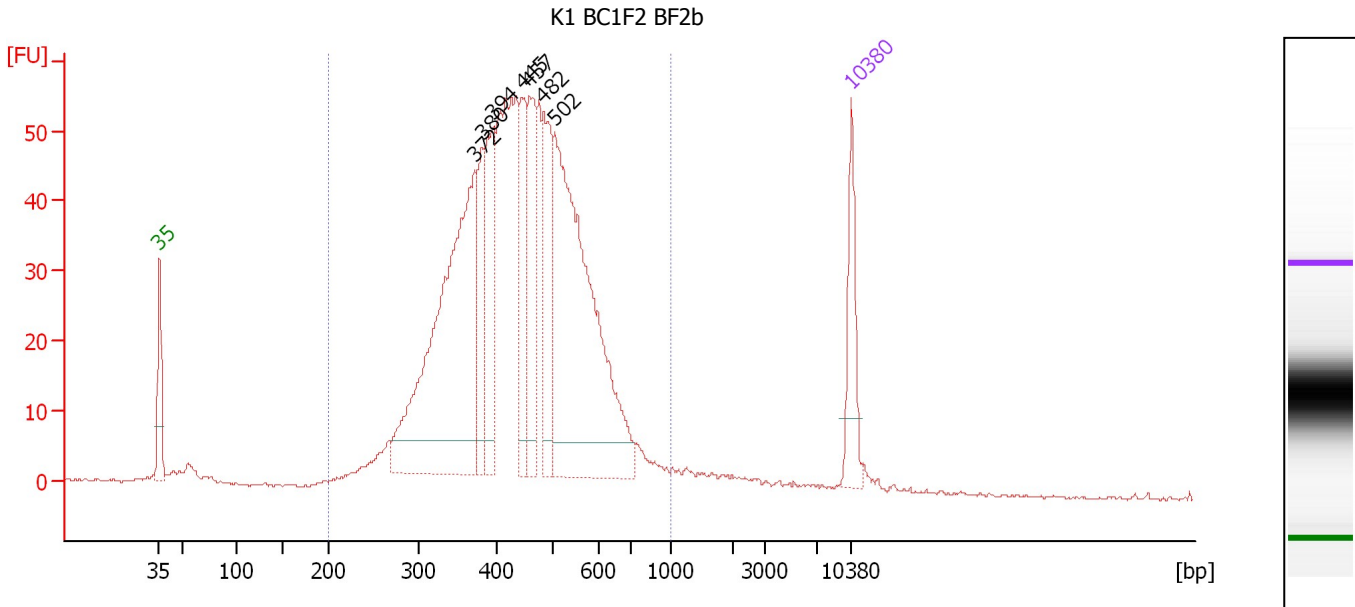
**Region table for sample 9 : K1 BC1F2 BF1b**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	7,045	1,015	1,849.7	4,901.3	2,389.25	99	67.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : K1 BC1F2 BF2b**

Number of peaks found: 7                      Corr. Area 1: 1,100.5  
 Noise: 0.2

**Peak table for sample 10 : K1 BC1F2 BF2b**

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	372	662.28	2,699.5		74.93
3	380	108.77	433.1		75.63
4	394	172.30	662.6		76.71
5	445	127.52	434.6		79.73
6	457	153.30	508.3		80.43
7	482	166.23	523.0		81.83
8	502	644.48	1,945.9		82.96
9	10,380	75.00	10.9	Upper Marker	113.00

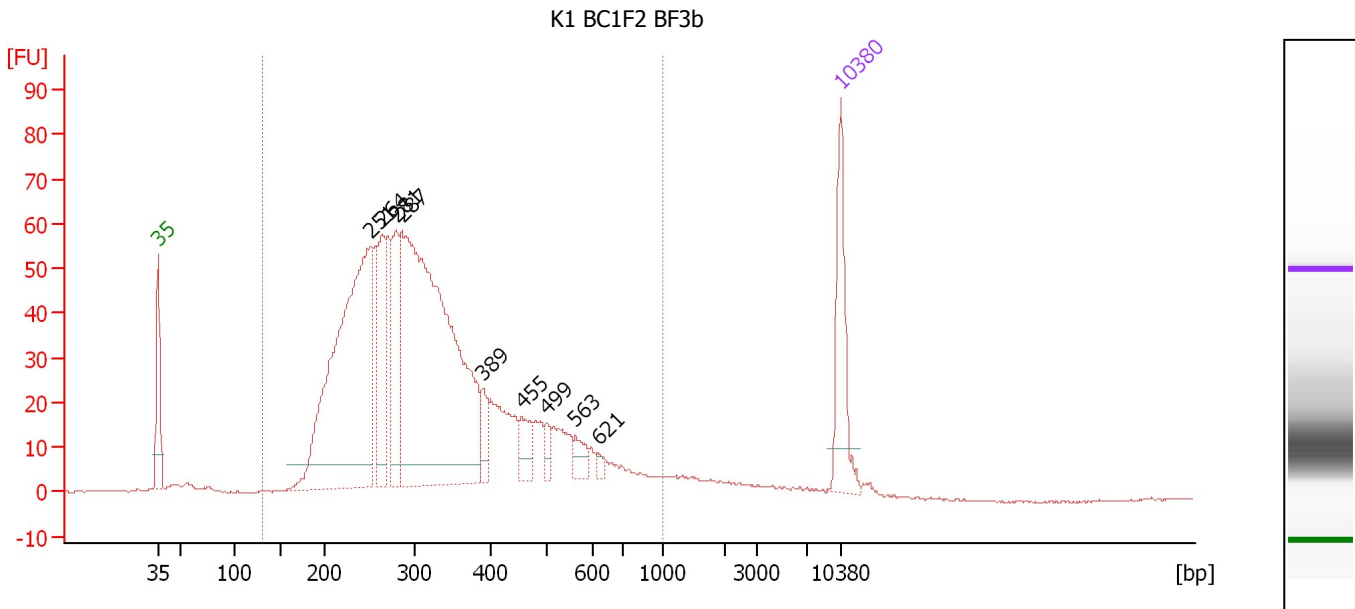
**Region table for sample 10 : K1 BC1F2 BF2b**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	448	1,100.5	10,338.9	2,828.96	95	24.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
 Modified: 5/22/2017 2:11:19 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : K1 BC1F2 BF3b**

Number of peaks found: 9                      Corr. Area 1: 1,369.1  
 Noise: 0.2

**Peak table for sample 11 : K1 BC1F2 BF3b**

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	251	564.79	3,406.3		64.77
3	264	121.37	696.9		65.91
4	281	111.48	601.7		67.45
5	287	746.74	3,937.2		68.05
6	389	30.91	120.4		76.30
7	455	29.66	98.8		80.30
8	499	14.11	42.8		82.81
9	563	18.54	49.9		85.82
10	621	5.87	14.3		88.17
11	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : K1 BC1F2 BF3b**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
131	1,000	338	1,369.1	10,730.9	2,075.67	95	37.6

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-22\2017-05-22\_002.xad

Created: 5/22/2017 1:28:36 PM  
Modified: 5/22/2017 2:11:19 PM

**Gel Image**

