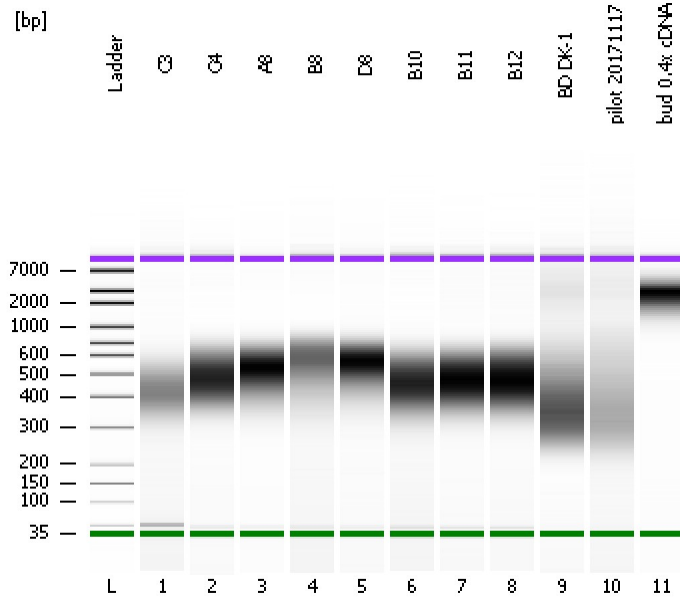


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
Modified: 11/22/2017 12:05:41 PM

Electrophoresis File Run Summary



Instrument Information:

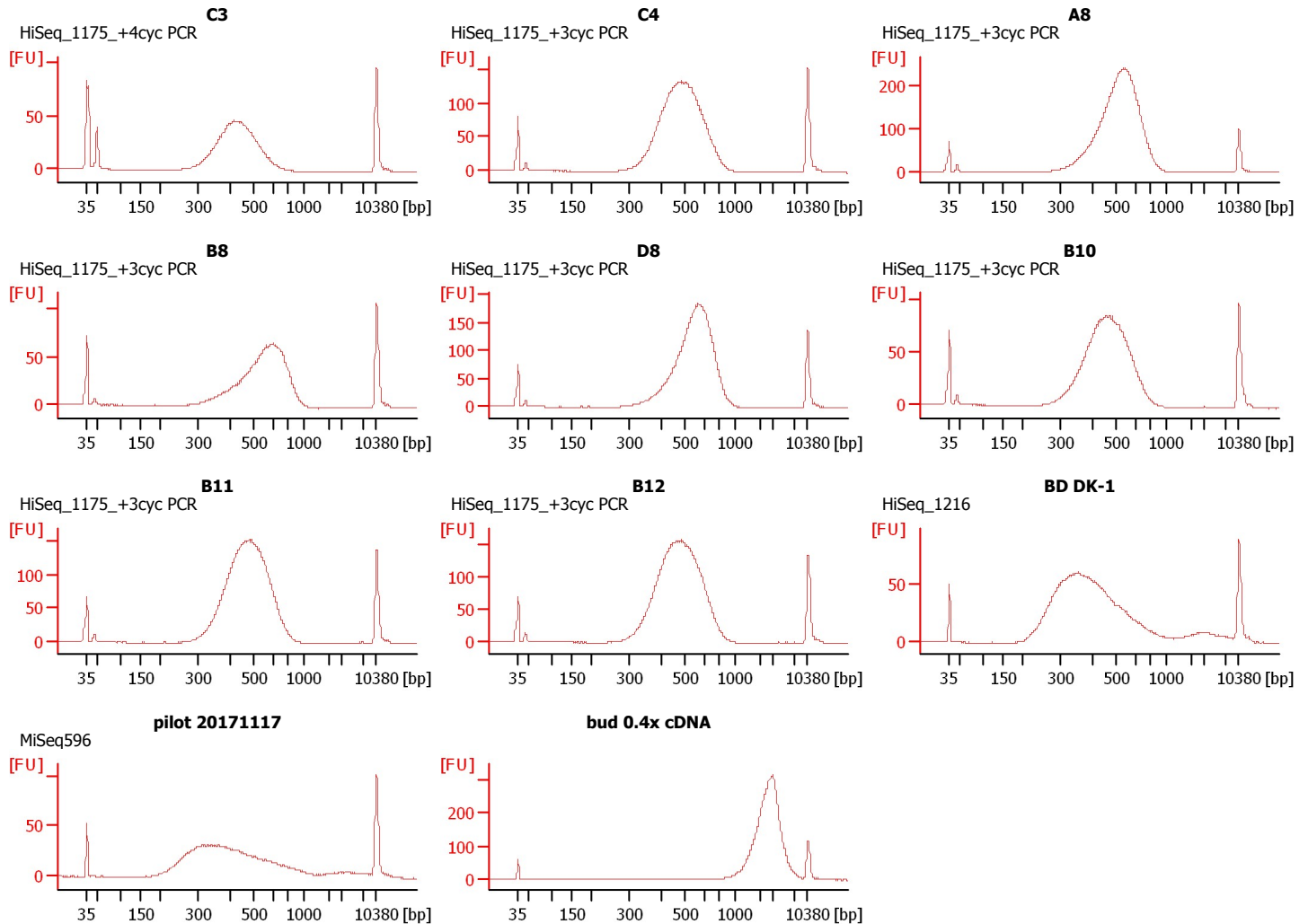
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
 Modified: 11/22/2017 12:05:41 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
C3	HiSeq_1175_+4cyc PCR	<input type="checkbox"/>	✓			
C4	HiSeq_1175_+3cyc PCR	<input type="checkbox"/>	✓			
A8	HiSeq_1175_+3cyc PCR	<input type="checkbox"/>	✓			
B8	HiSeq_1175_+3cyc PCR	<input type="checkbox"/>	✓			
D8	HiSeq_1175_+3cyc PCR	<input type="checkbox"/>	✓			
B10	HiSeq_1175_+3cyc PCR	<input type="checkbox"/>	✓			
B11	HiSeq_1175_+3cyc PCR	<input type="checkbox"/>	✓			
B12	HiSeq_1175_+3cyc PCR	<input type="checkbox"/>	✓			
BD DK-1	HiSeq_1216	<input type="checkbox"/>	✓			
pilot 20171117	MiSeq596	<input type="checkbox"/>	✓			
bud 0.4x cDNA		<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\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
Modified: 11/22/2017 12:05:41 PM

**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] : 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

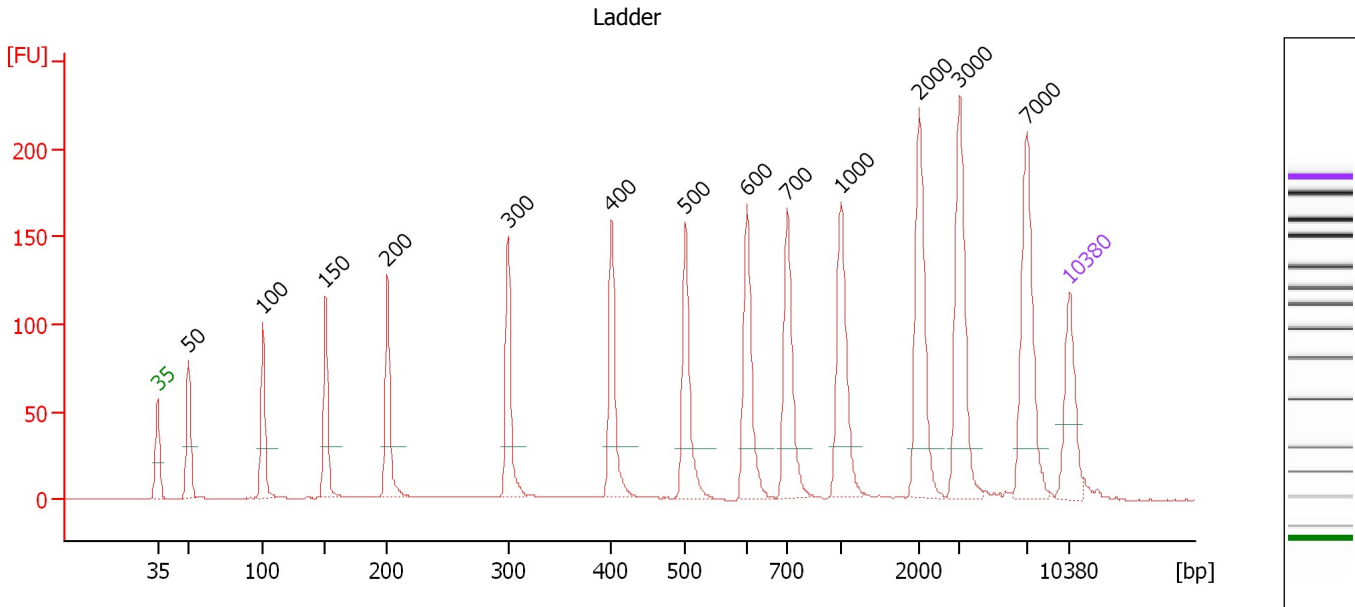
**Ladder**

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:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

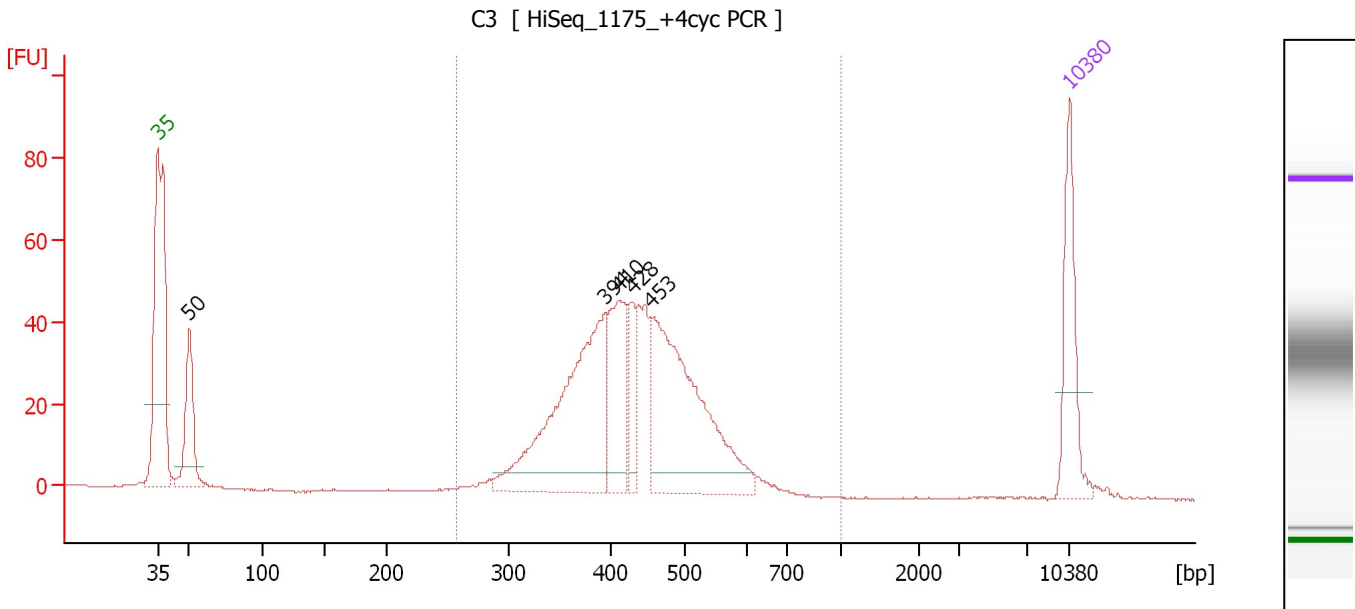
**Peak table for Ladder**

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	45.38
3	100	150.00	2,272.7	Ladder Peak	51.08
4	150	150.00	1,515.2	Ladder Peak	55.89
5	200	150.00	1,136.4	Ladder Peak	60.65
6	300	150.00	757.6	Ladder Peak	69.90
7	400	150.00	568.2	Ladder Peak	77.84
8	500	150.00	454.5	Ladder Peak	83.49
9	600	150.00	378.8	Ladder Peak	88.25
10	700	150.00	324.7	Ladder Peak	91.33
11	1,000	150.00	227.3	Ladder Peak	95.44
12	2,000	150.00	113.6	Ladder Peak	101.47
13	3,000	150.00	75.8	Ladder Peak	104.55
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
 Modified: 11/22/2017 12:05:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : C3**

Number of peaks found: 5                      Corr. Area 1: 704.1  
 Noise: 0.2

**Peak table for sample 1 : C3**

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	120.68	3,624.2		45.43
3	394	305.95	1,177.1		77.34
4	410	119.21	440.2		78.42
5	428	50.42	178.6		79.40
6	453	306.43	1,024.0		80.85
7	10,380	75.00	10.9	Upper Marker	113.00

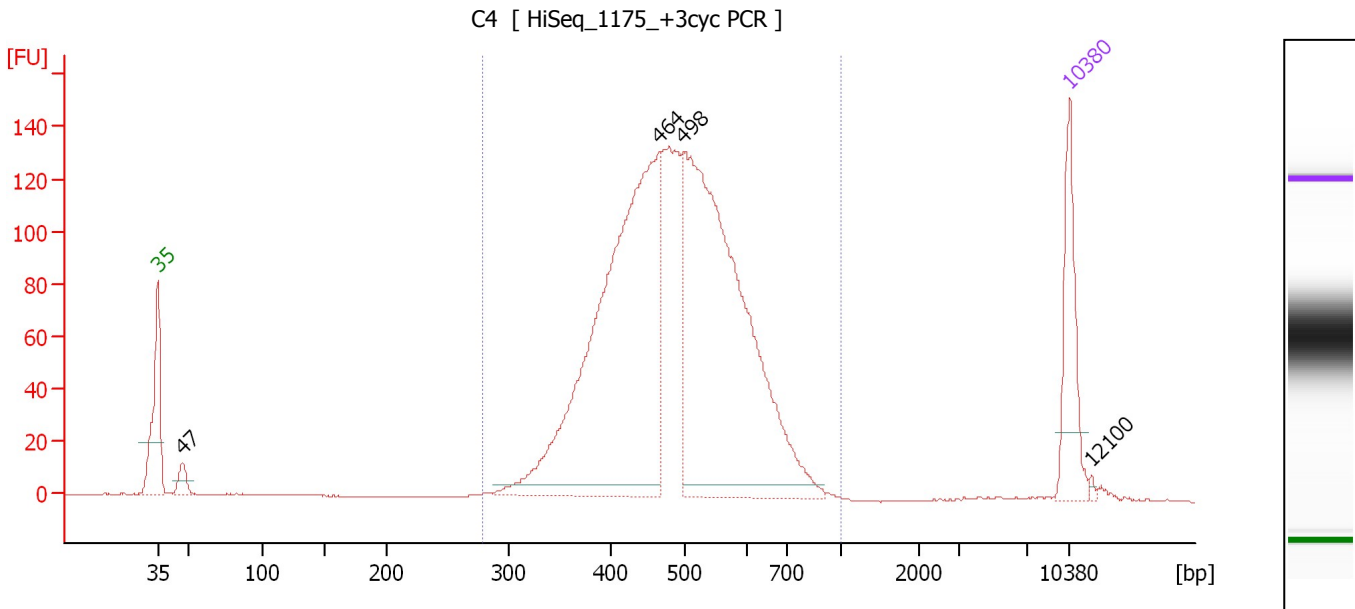
**Region table for sample 1 : C3**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
258	1,000	433	704.1	3,272.6	900.15	89	17.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : C4**

Number of peaks found: 4                      Corr. Area 1: 2,049.8  
 Noise: 0.2

**Peak table for sample 2 : C4**

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	47	22.68	731.7		44.90
3	464	687.14	2,244.4		81.45
4	498	676.02	2,058.8		83.35
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,100	0.00	0.0		114.66

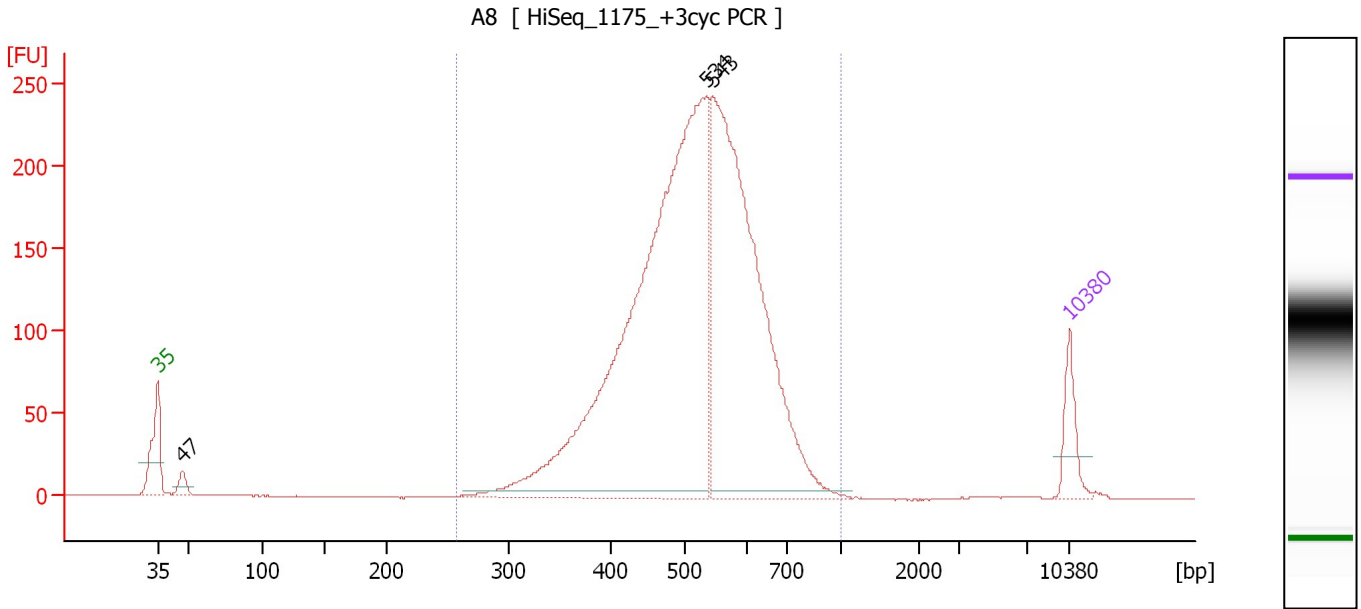
**Region table for sample 2 : C4**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
279	1,000	491	2,049.8	5,046.3	1,562.25	98	18.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : A8**

Number of peaks found: 3                      Corr. Area 1: 3,198.0  
 Noise: 0.2

**Peak table for sample 3 : A8**

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	47	42.33	1,369.8		44.88
3	534	2,215.27	6,280.9		85.13
4	543	1,450.05	4,042.5		85.56
5	10,380	75.00	10.9	Upper Marker	113.00

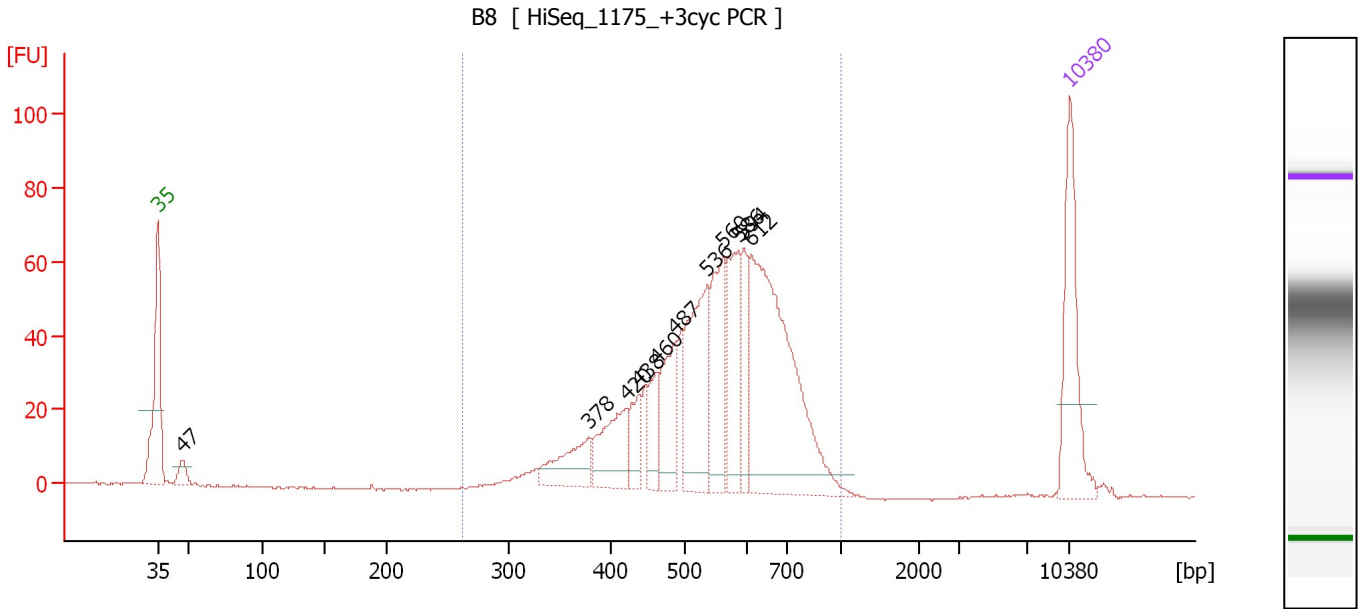
**Region table for sample 3 : A8**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
258	1,000	519	3,198.0	11,653.0	3,806.29	98	18.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
 Modified: 11/22/2017 12:05:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : B8**

Number of peaks found: 11                      Corr. Area 1: 925.5  
 Noise: 0.2

**Peak table for sample 4 : B8**

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	47	16.28	521.5		44.95
3	378	49.99	200.5		76.07
4	420	62.02	223.9		78.95
5	438	29.83	103.2		79.98
6	460	33.64	110.7		81.24
7	487	58.90	183.2		82.76
8	536	113.41	320.7		85.20
9	560	85.20	230.3		86.37
10	586	74.41	192.4		87.59
11	594	44.00	112.2		87.98
12	612	260.72	645.8		88.61
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : B8**

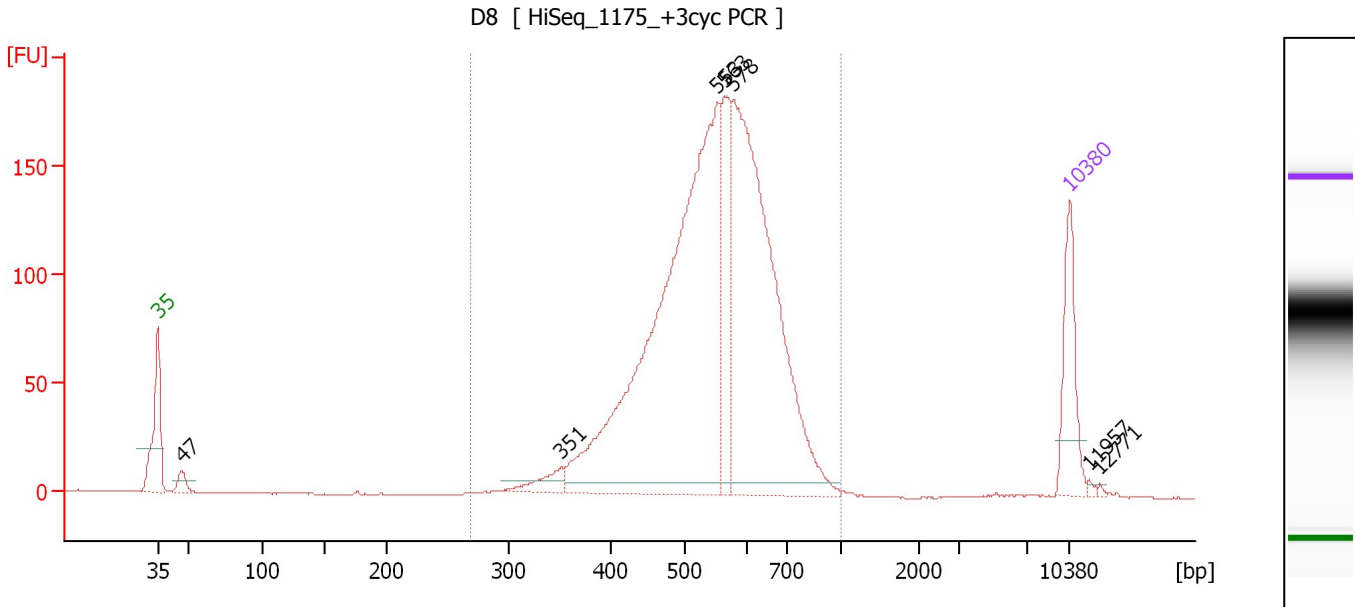
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
263	1,000	557	925.5	2,602.3	894.22	98	21.5



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
 Modified: 11/22/2017 12:05:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : D8**

Number of peaks found: 7                      Corr. Area 1: 2,177.8  
 Noise: 0.2

**Peak table for sample 5 : D8**

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	47	22.13	717.0		44.87
3	351	29.14	125.8		73.94
4	553	881.02	2,415.5		85.99
5	563	134.78	362.7		86.49
6	578	624.49	1,635.7		87.22
7	10,380	75.00	10.9	Upper Marker	113.00
8	11,957	0.00	0.0		114.52
9	12,771	0.00	0.0		115.31

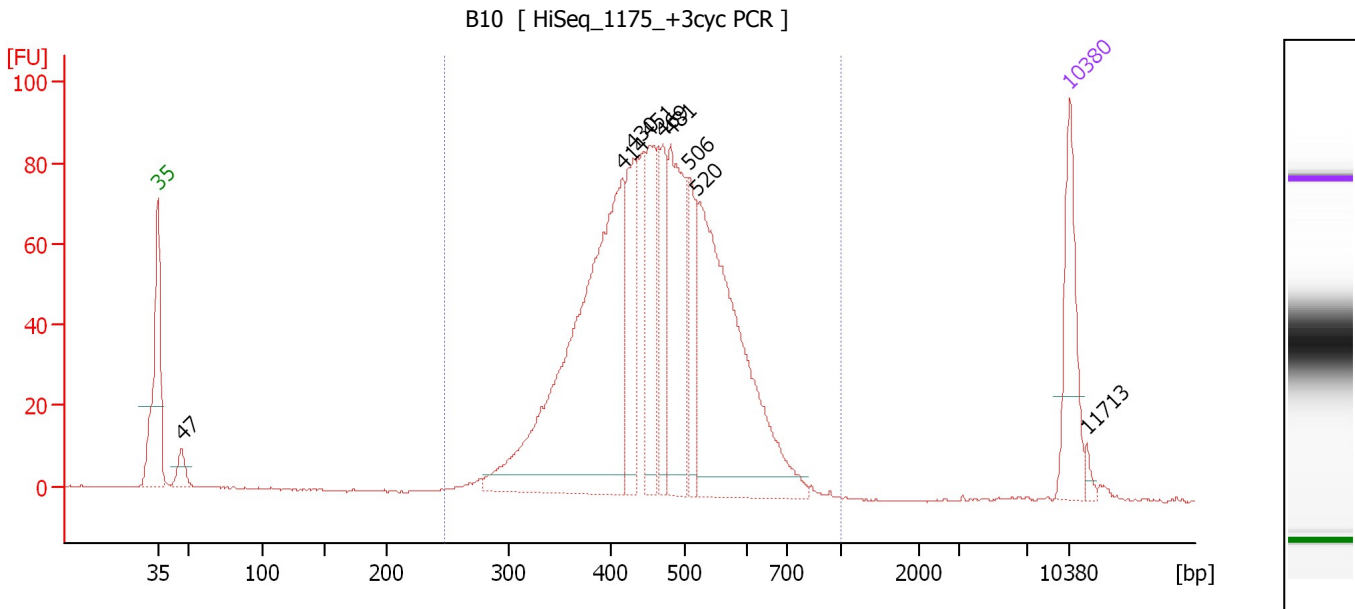
**Region table for sample 5 : D8**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
269	1,000	550	2,177.8	5,078.7	1,762.98	98	17.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
 Modified: 11/22/2017 12:05:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : B10**

Number of peaks found: 9                      Corr. Area 1: 1,389.3  
 Noise: 0.2

**Peak table for sample 6 : B10**

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	47	26.28	855.5		44.83
3	414	527.08	1,927.6		78.64
4	430	120.46	424.4		79.54
5	451	119.21	400.4		80.73
6	469	80.00	258.6		81.72
7	481	174.93	551.1		82.41
8	506	69.21	207.4		83.75
9	520	391.96	1,141.8		84.44
10	10,380	75.00	10.9	Upper Marker	113.00
11	11,713	0.00	0.0		114.29

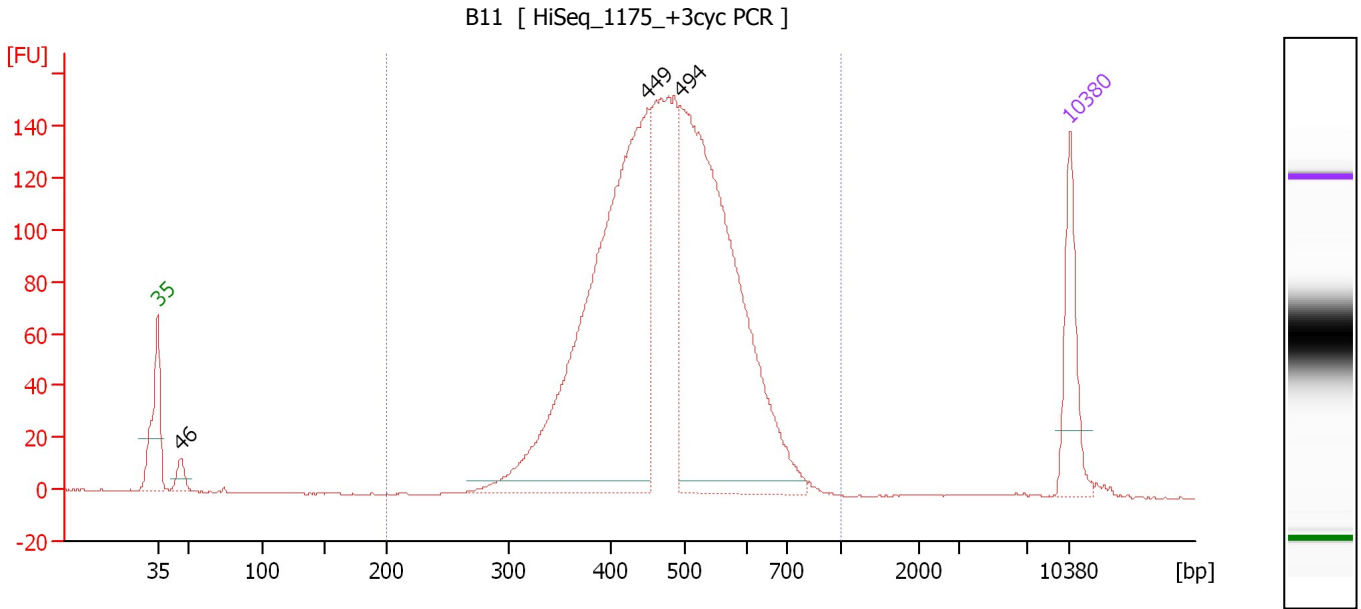
**Region table for sample 6 : B10**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
248	1,000	465	1,389.3	5,507.0	1,608.86	97	18.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : B11**

Number of peaks found: 3                      Corr. Area 1: 2,359.7  
 Noise: 0.2

**Peak table for sample 7 : B11**

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	46	25.25	831.3		44.75
3	449	817.57	2,756.9		80.62
4	494	751.48	2,307.1		83.12
5	10,380	75.00	10.9	Upper Marker	113.00

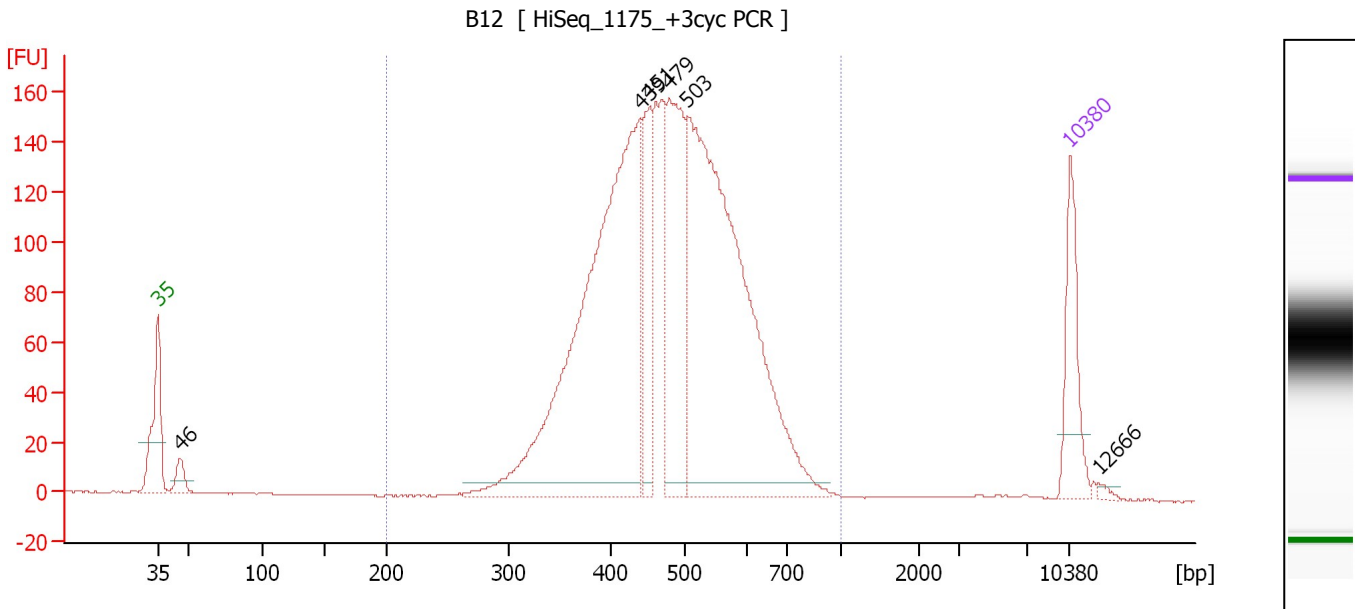
**Region table for sample 7 : B11**

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	477	2,359.7	6,369.0	1,920.03	98	18.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
 Modified: 11/22/2017 12:05:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : B12**

Number of peaks found: 6                      Corr. Area 1: 2,579.8  
 Noise: 0.2

**Peak table for sample 8 : B12**

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	46	29.28	969.4		44.71
3	439	792.17	2,734.6		80.04
4	451	121.49	407.8		80.74
5	479	249.00	787.7		82.30
6	503	781.57	2,352.0		83.65
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,666	0.00	0.0		115.21

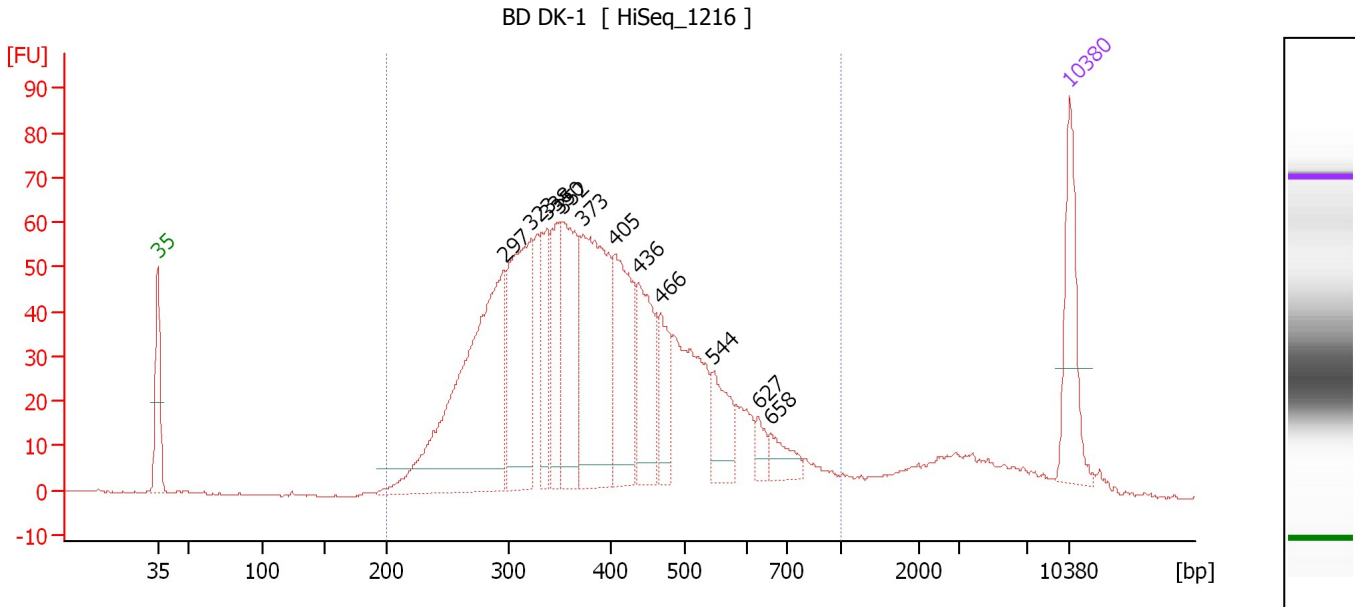
**Region table for sample 8 : B12**

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	482	2,579.8	7,012.8	2,122.34	98	19.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BD DK-1**

Number of peaks found: 12                      Corr. Area 1: 1,465.9  
 Noise: 0.1

**Peak table for sample 9 : BD DK-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	297	440.69	2,251.3		69.58
3	323	231.08	1,085.3		71.69
4	338	76.48	343.0		72.90
5	350	81.92	354.8		73.85
6	352	160.53	690.3		74.06
7	373	255.82	1,040.2		75.66
8	405	154.91	579.4		78.13
9	436	111.76	388.1		79.88
10	466	57.14	185.6		81.59
11	544	61.00	170.0		85.56
12	627	17.32	41.8		89.08
13	658	27.36	63.0		90.04
14	10,380	75.00	10.9	Upper Marker	113.00

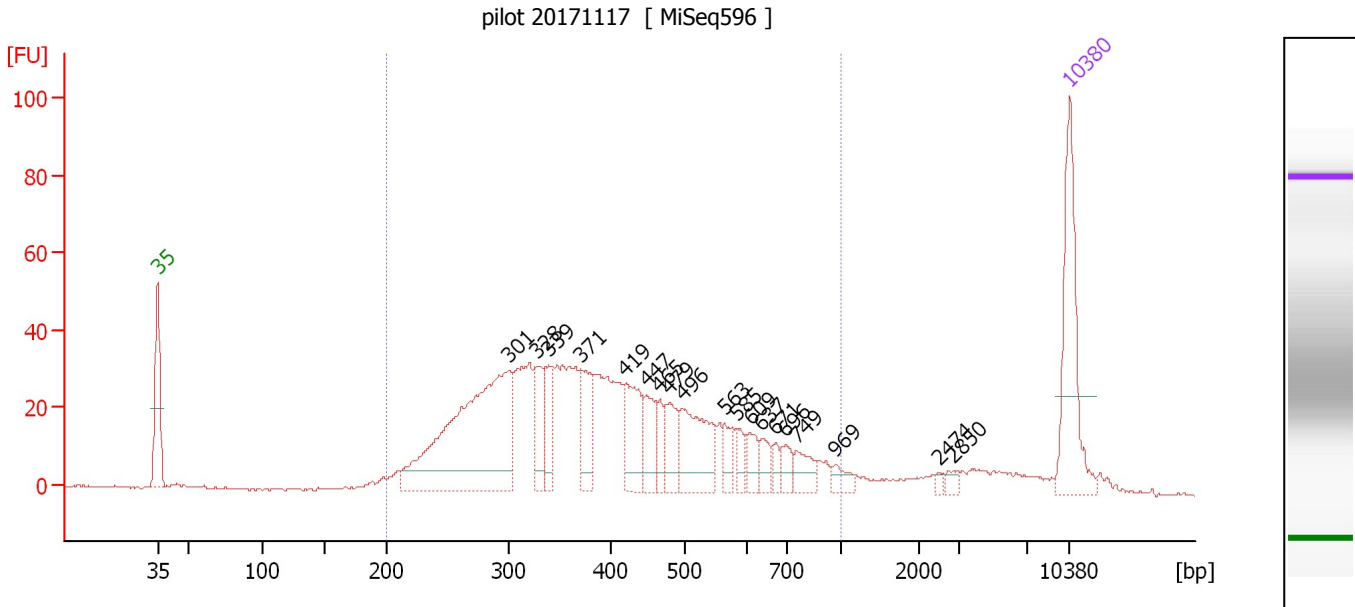
**Region table for sample 9 : BD DK-1**

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	402	1,465.9	8,725.7	2,077.16	93	30.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : pilot 20171117**

Number of peaks found: 19                      Corr. Area 1: 936.4  
 Noise: 0.4

**Peak table for sample 10 : pilot 20171117**

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	301	286.11	1,442.3		69.94
3	328	42.57	196.7		72.11
4	339	33.86	151.2		73.01
5	371	44.20	180.5		75.53
6	419	53.73	194.3		78.91
7	447	31.32	106.0		80.52
8	465	20.18	65.7		81.53
9	479	30.97	98.0		82.28
10	496	69.79	213.4		83.24
11	563	16.12	43.3		86.51
12	585	11.91	30.9		87.52
13	609	15.89	39.5		88.53
14	637	14.24	33.9		89.38
15	671	8.98	20.3		90.44
16	696	11.85	25.8		91.19
17	749	18.86	38.2		92.00
18	969	10.53	16.5		95.02
19	2,474	2.72	1.7		102.93
20	2,850	4.75	2.5		104.09
21	10,380	75.00	10.9	Upper Marker	113.00

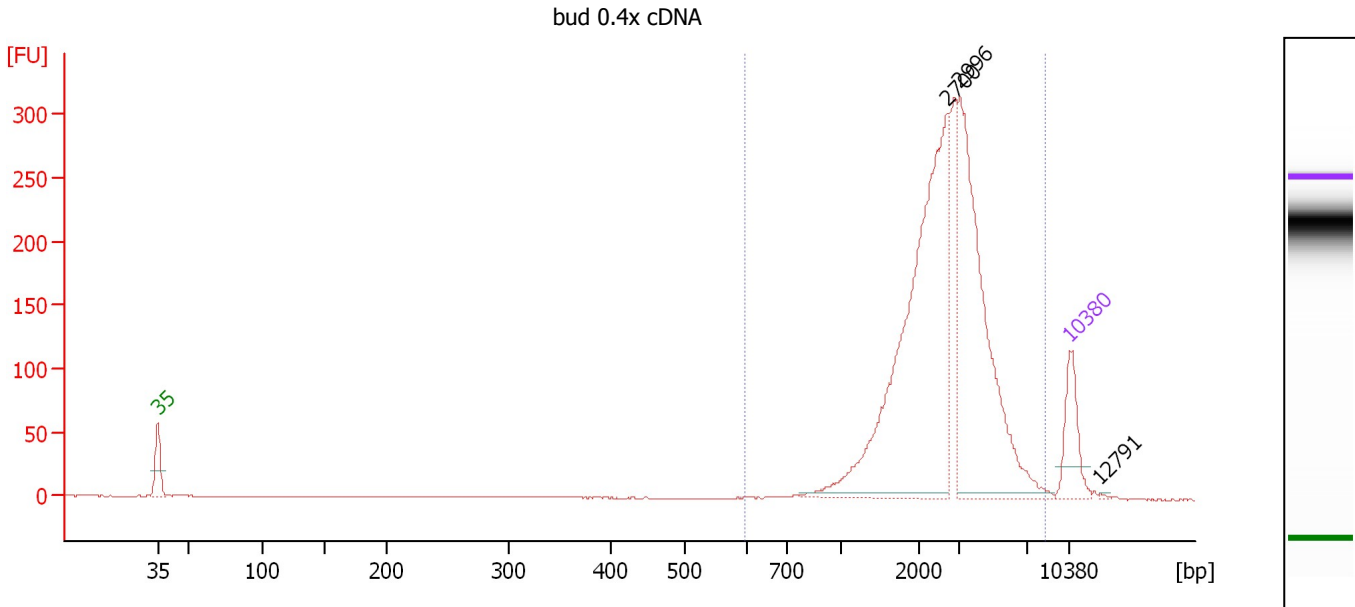
**Region table for sample 10 : pilot 20171117**

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	417	936.4	4,466.7	1,059.34	90	35.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

Created: 11/22/2017 10:24:40 AM  
 Modified: 11/22/2017 12:05:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : bud 0.4x cDNA**

Number of peaks found: 3                      Corr. Area 1: 2,001.2  
 Noise: 0.2

**Peak table for sample 11 : bud 0.4x cDNA**

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	2,700	693.33	389.1		103.62
3	2,996	488.41	247.0		104.54
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,791	0.00	0.0		115.33

**Region table for sample 11 : bud 0.4x cDNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
597	8,359	2,911	2,001.2	814.1	1,332.79	99	42.6

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-22\2017-11-22\_001.xad

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**Gel Image**

