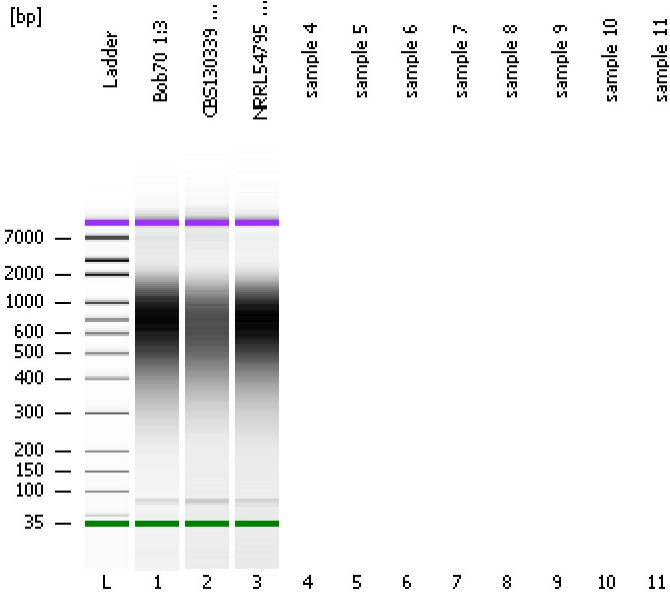


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

Created: 5/1/2015 11:42:00 AM  
Modified: 5/1/2015 12:05:07 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

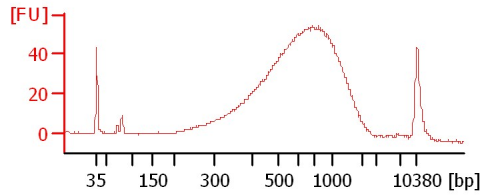
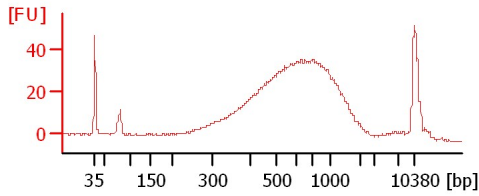
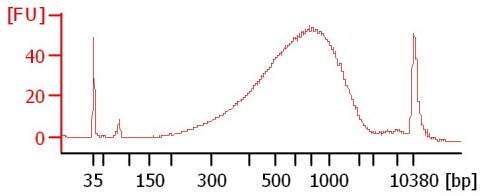
Chip Information:

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

**Bob70 1:3**

**CBS130339 1:3**

**NRRL54795 1:3**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

Created: 5/1/2015 11:42:00 AM  
 Modified: 5/1/2015 12:05:07 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Bob70 1:3		<input type="checkbox"/>				
CBS130339 1:3		<input type="checkbox"/>		✓		
NRRL54795 1:3		<input type="checkbox"/>		✓		
sample 4		<input type="checkbox"/>				
sample 5		<input type="checkbox"/>				
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

Created: 5/1/2015 11:42:00 AM  
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**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

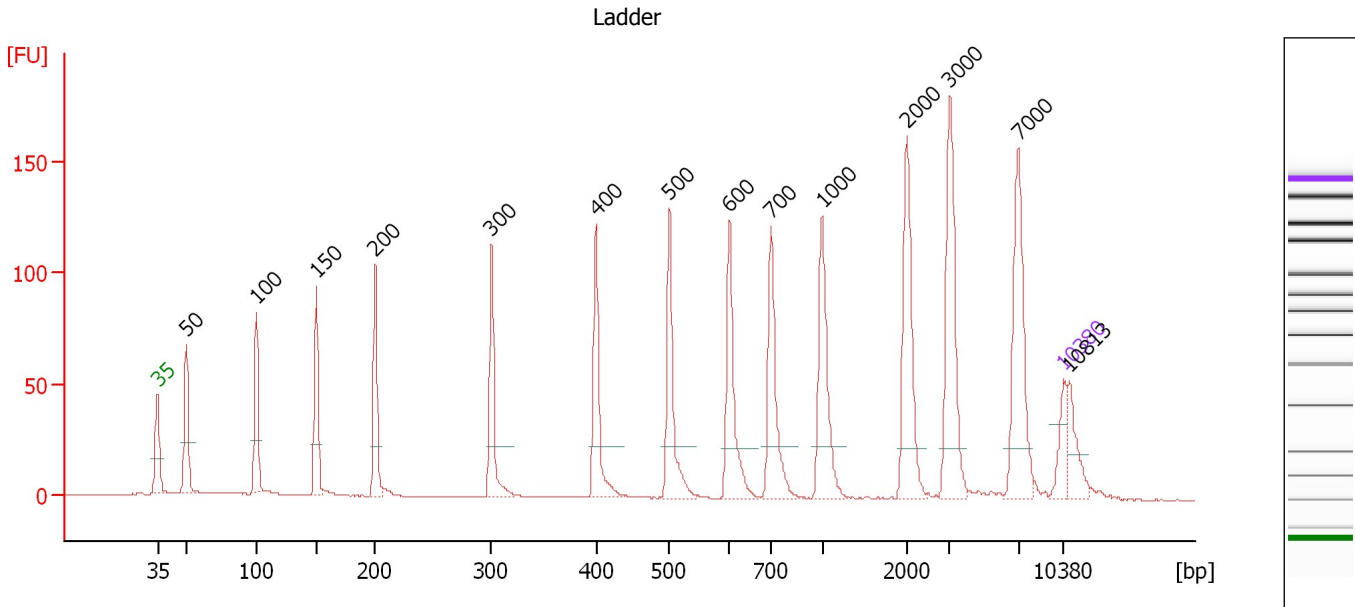
**Ladder**

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:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

Created: 5/1/2015 11:42:00 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

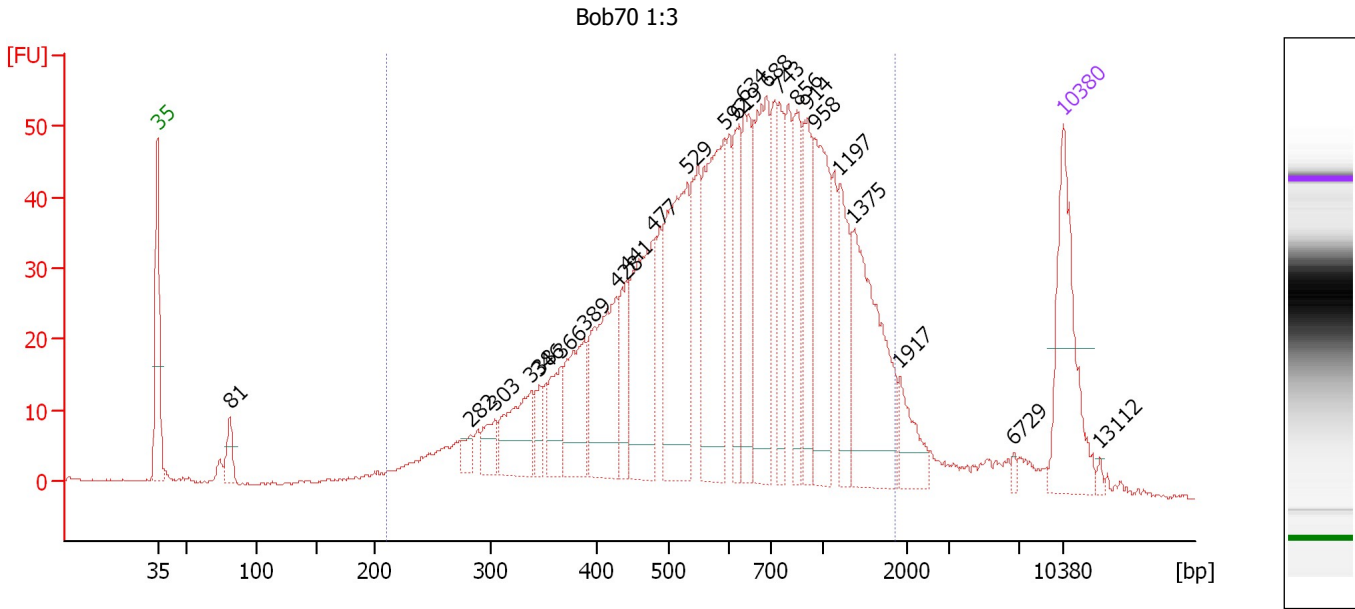
**Peak table for Ladder**

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	45.24
3	100	150.00	2,272.7	Ladder Peak	50.65
4	150	150.00	1,515.2	Ladder Peak	55.26
5	200	150.00	1,136.4	Ladder Peak	59.82
6	300	150.00	757.6	Ladder Peak	68.81
7	400	150.00	568.2	Ladder Peak	76.86
8	500	150.00	454.5	Ladder Peak	82.54
9	600	150.00	378.8	Ladder Peak	87.19
10	700	150.00	324.7	Ladder Peak	90.41
11	1,000	150.00	227.3	Ladder Peak	94.35
12	2,000	150.00	113.6	Ladder Peak	100.88
13	3,000	150.00	75.8	Ladder Peak	104.19
14	7,000	150.00	32.5	Ladder Peak	109.51
15	10,380	75.00	10.9	Upper Marker	113.00
16	10,813	0.00	0.0		113.45

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Bob70 1:3**

Number of peaks found: 24                      Corr. Area 1: 1,369.5  
 Noise: 0.2

**Peak table for sample 1 : Bob70 1:3**

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	81	22.89	428.0		48.59
3	282	11.99	64.5		67.17
4	303	21.65	108.3		69.05
5	338	59.18	265.3		71.87
6	346	15.98	70.0		72.49
7	366	35.53	146.9		74.15
8	389	63.76	248.2		75.99
9	428	103.09	365.0		78.45
10	441	41.15	141.3		79.21
11	477	115.77	367.9		81.22
12	529	143.15	409.7		83.91
13	592	132.77	339.8		86.82
14	619	48.67	119.1		87.80
15	634	71.58	171.0		88.29
16	688	111.12	244.6		90.04
17	743	50.98	103.9		90.98
18	856	49.91	88.4		92.46
19	914	56.52	93.7		93.22
20	958	88.04	139.2		93.80
21	1,197	51.10	64.7		95.63
22	1,375	114.14	125.8		96.80
23	1,917	25.04	19.8		100.33
24	6,729	2.95	0.7		109.15
25	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

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**Electropherogram Summary Continued ...****... Peak table for sample 1 : Bob70 1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,112	0.00	0.0		115.82

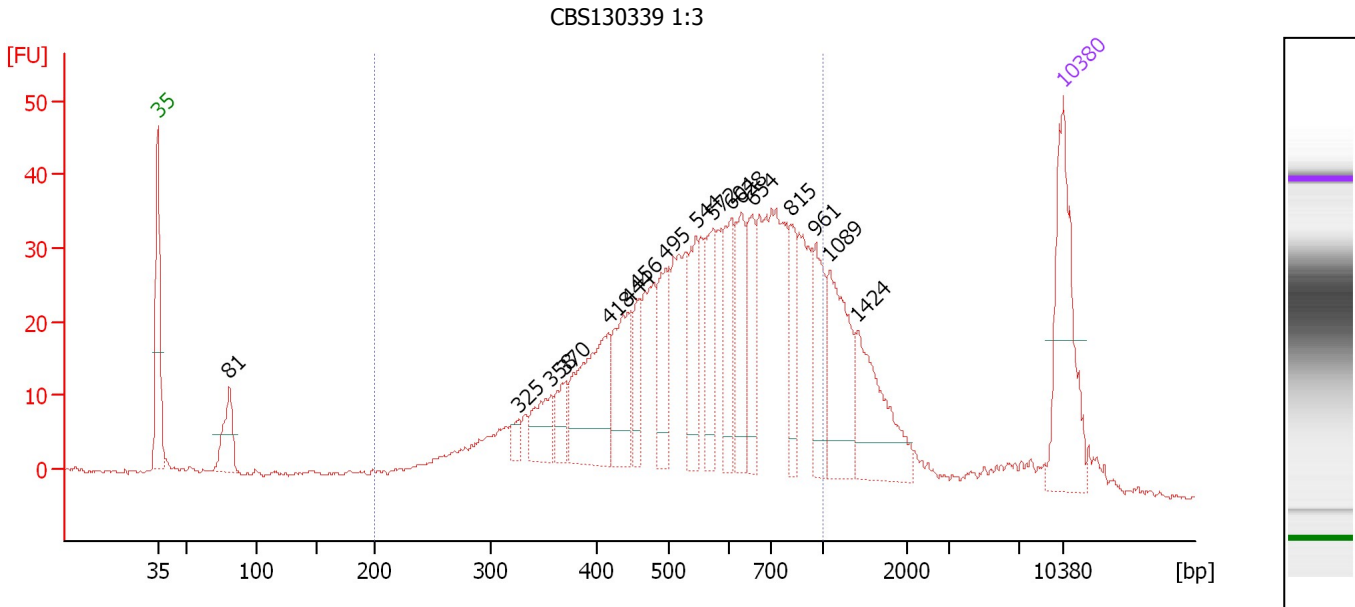
**Region table for sample 1 : Bob70 1:3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
210	713	1,871	1,369.5	5,252.2	92	49.6	1,856.87	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : CBS130339 1:3**

Number of peaks found: 17                      Corr. Area 1: 824.4  
 Noise: 0.2

**Peak table for sample 2 : CBS130339 1:3**

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	81	42.20	792.9		48.55
3	325	9.26	43.1		70.85
4	358	31.62	133.9		73.45
5	370	21.54	88.2		74.45
6	418	93.50	339.2		77.86
7	444	58.12	198.3		79.37
8	456	26.69	88.6		80.05
9	495	45.98	140.9		82.23
10	544	42.44	118.1		84.60
11	572	43.20	114.5		85.87
12	604	45.42	113.9		87.33
13	628	44.25	106.7		88.10
14	654	41.95	97.2		88.92
15	815	33.71	62.6		91.93
16	961	43.59	68.7		93.84
17	1,089	67.60	94.0		94.93
18	1,424	64.89	69.1		97.12
19	10,380	75.00	10.9	Upper Marker	113.00

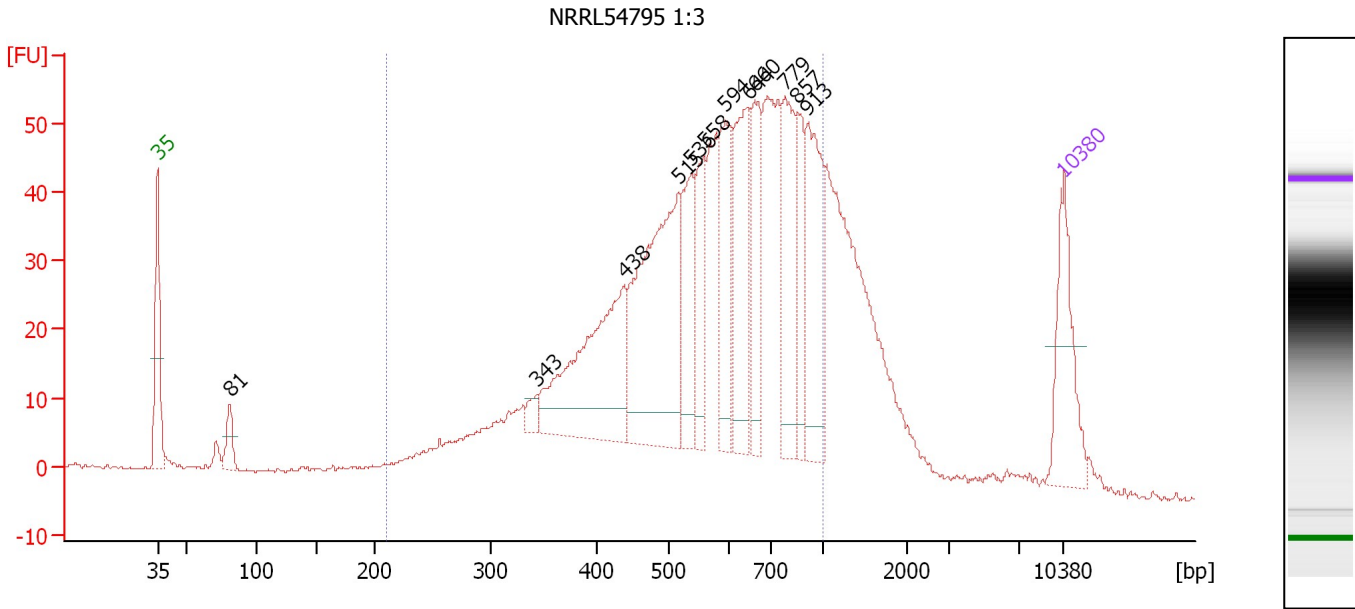
**Region table for sample 2 : CBS130339 1:3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	571	1,000	824.4	3,558.3	79	30.9	1,156.77	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : NRRL54795 1:3**

Number of peaks found: 12                      Corr. Area 1: 1,135.6  
 Noise: 0.2

**Peak table for sample 3 : NRRL54795 1:3**

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	81	31.83	596.6		48.57
3	343	14.19	62.7		72.26
4	438	221.18	764.3		79.05
5	515	278.96	821.1		83.23
6	536	82.86	234.4		84.20
7	558	73.67	200.2		85.22
8	594	97.11	247.9		86.90
9	644	127.89	300.8		88.61
10	660	85.18	195.5		89.12
11	779	114.07	221.9		91.45
12	857	59.08	104.5		92.47
13	913	122.48	203.2		93.21
14	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : NRRL54795 1:3**

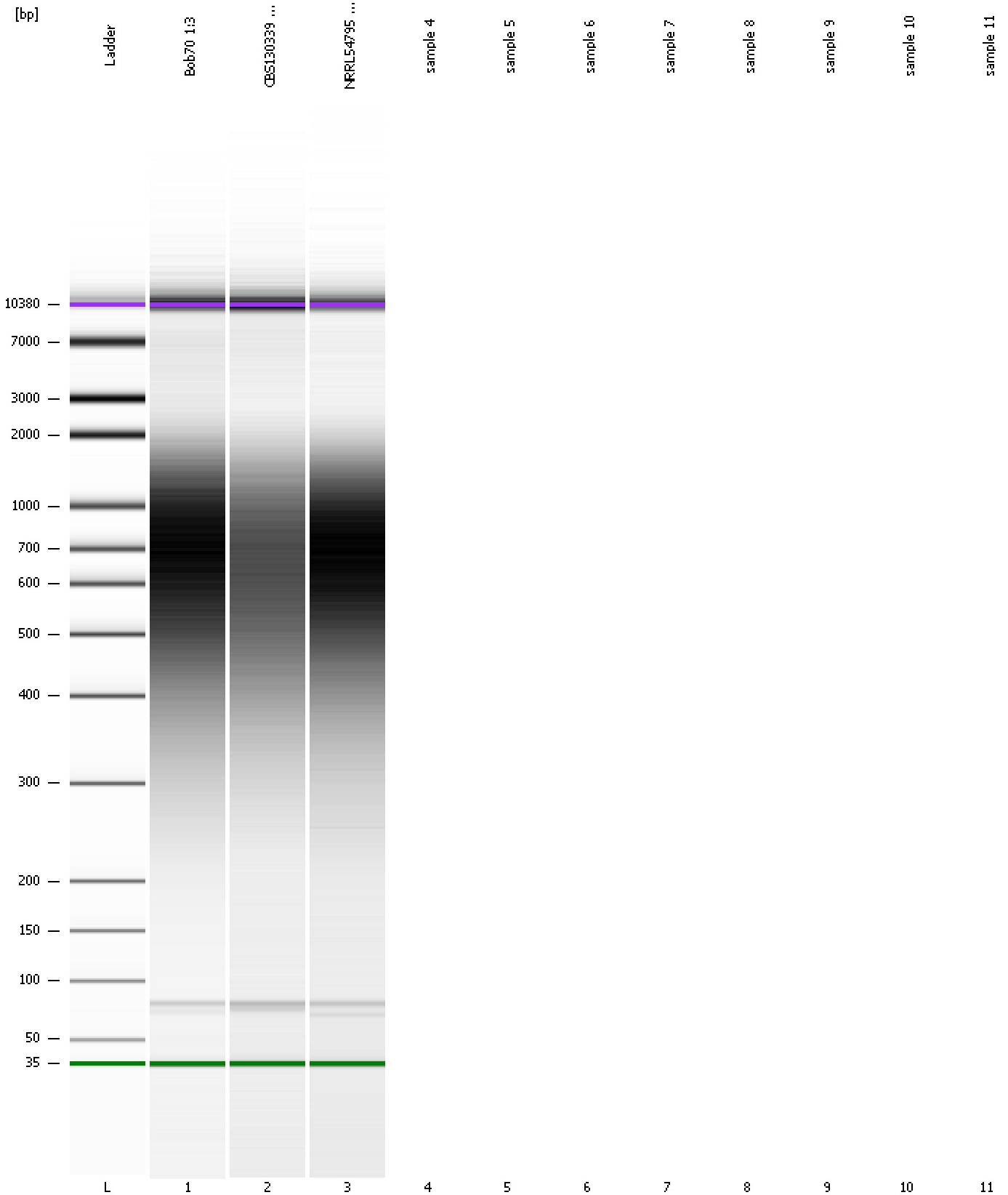
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
210	586	1,000	1,135.6	6,082.2	81	30.5	2,022.58	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

Created: 5/1/2015 11:42:00 AM  
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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-01\2015-05-01\_002.xad

Created: 5/1/2015 11:42:00 AM  
Modified: 5/1/2015 12:05:07 PM

**Invalid Samples**

Sample 4 has not been run, no results available.

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.