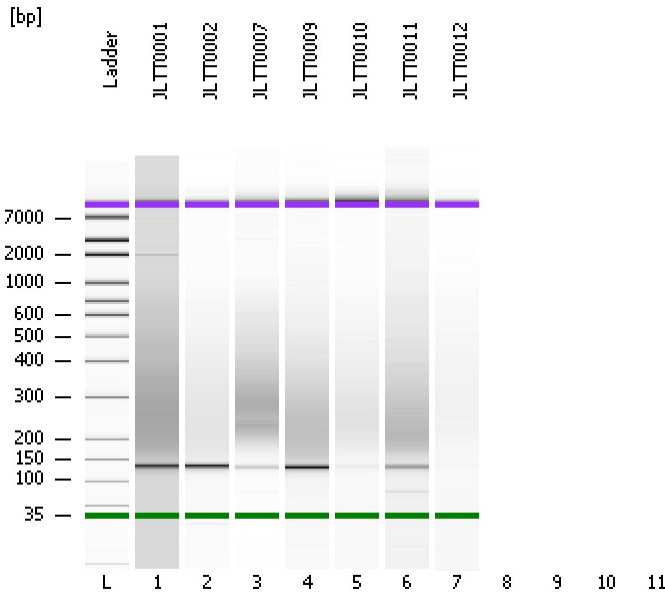


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

Created: 8/24/2017 11:51:28 AM  
Modified: 8/24/2017 12:28:35 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

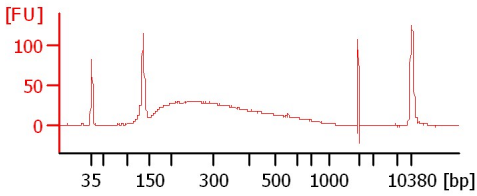
Assay Information:

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

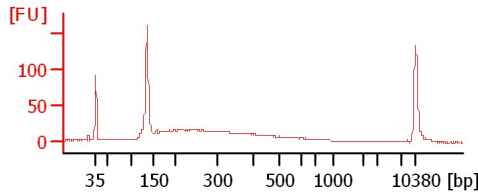
Chip Information:

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

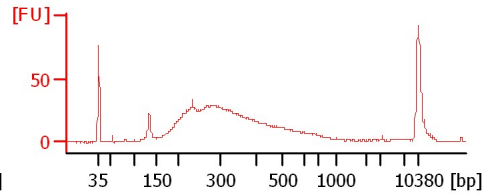
**JLTT0001**



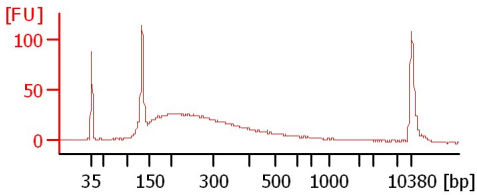
**JLTT0002**



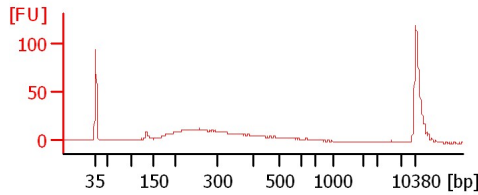
**JLTT0007**



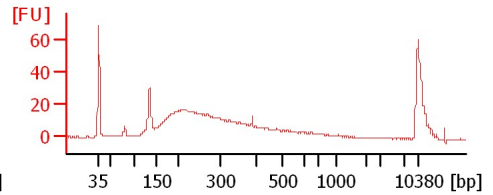
**JLTT0009**



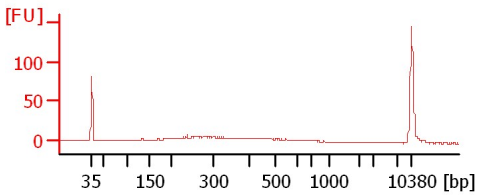
**JLTT0010**



**JLTT0011**



**JLTT0012**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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 Modified: 8/24/2017 12:28:35 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JLTT0001		<input type="checkbox"/>	✓			
JLTT0002		<input type="checkbox"/>	✓			
JLTT0007		<input type="checkbox"/>	✓			
JLTT0009		<input type="checkbox"/>	✓			
JLTT0010		<input type="checkbox"/>	✓			
JLTT0011		<input type="checkbox"/>	✓			
JLTT0012		<input type="checkbox"/>	✓			
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<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\2017-08-24\2017-08-24\_003.xad

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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

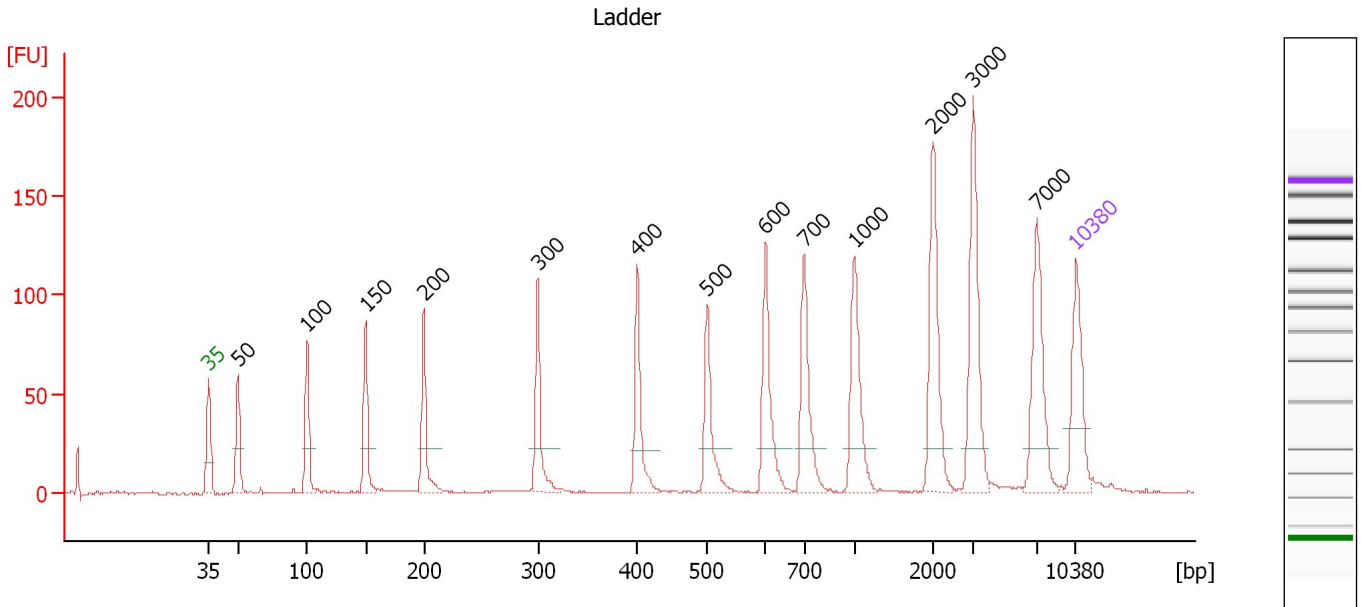
**Ladder**

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:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

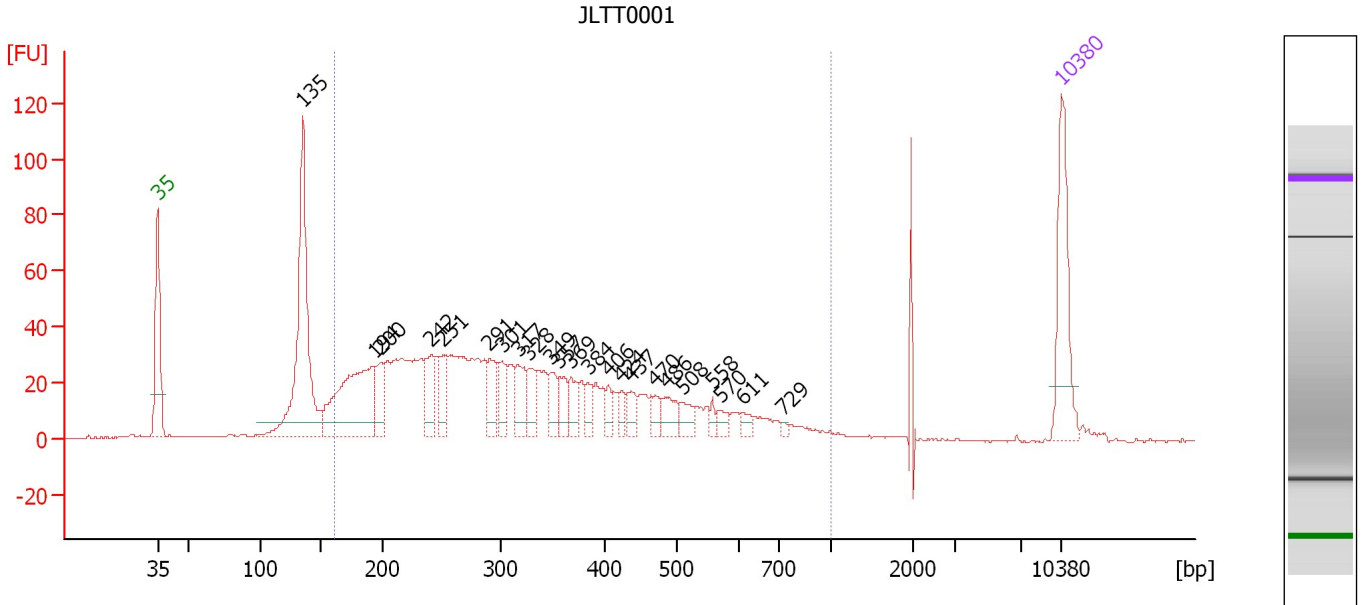
**Peak table for Ladder**

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.92
4	150	150.00	1,515.2	Ladder Peak	55.66
5	200	150.00	1,136.4	Ladder Peak	60.35
6	300	150.00	757.6	Ladder Peak	69.56
7	400	150.00	568.2	Ladder Peak	77.57
8	500	150.00	454.5	Ladder Peak	83.25
9	600	150.00	378.8	Ladder Peak	87.94
10	700	150.00	324.7	Ladder Peak	91.04
11	1,000	150.00	227.3	Ladder Peak	95.13
12	2,000	150.00	113.6	Ladder Peak	101.46
13	3,000	150.00	75.8	Ladder Peak	104.73
14	7,000	150.00	32.5	Ladder Peak	109.86
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : JLTT0001**

Number of peaks found: 23                      Corr. Area 1: 1,087.7  
 Noise: 0.3

**Peak table for sample 1 : JLTT0001**

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	135	281.16	3,155.4		54.24
3	194	174.57	1,366.5		59.75
4	200	40.30	305.9		60.31
5	242	44.50	278.8		64.21
6	251	34.37	207.2		65.08
7	291	35.41	184.5		68.71
8	301	25.65	128.9		69.67
9	317	37.60	179.9		70.90
10	328	25.33	117.0		71.81
11	349	24.00	104.2		73.47
12	357	23.32	99.1		74.09
13	369	22.96	94.4		75.05
14	384	15.01	59.2		76.32
15	406	12.96	48.3		77.93
16	424	12.02	43.0		78.94
17	437	17.89	62.0		79.68
18	470	15.95	51.4		81.56
19	486	22.60	70.4		82.48
20	508	16.33	48.7		83.62
21	558	6.85	18.6		85.98
22	570	9.48	25.2		86.55
23	611	7.75	19.2		88.30
24	729	2.90	6.0		91.44
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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Modified: 8/24/2017 12:28:35 PM

**Electropherogram Summary Continued ...**

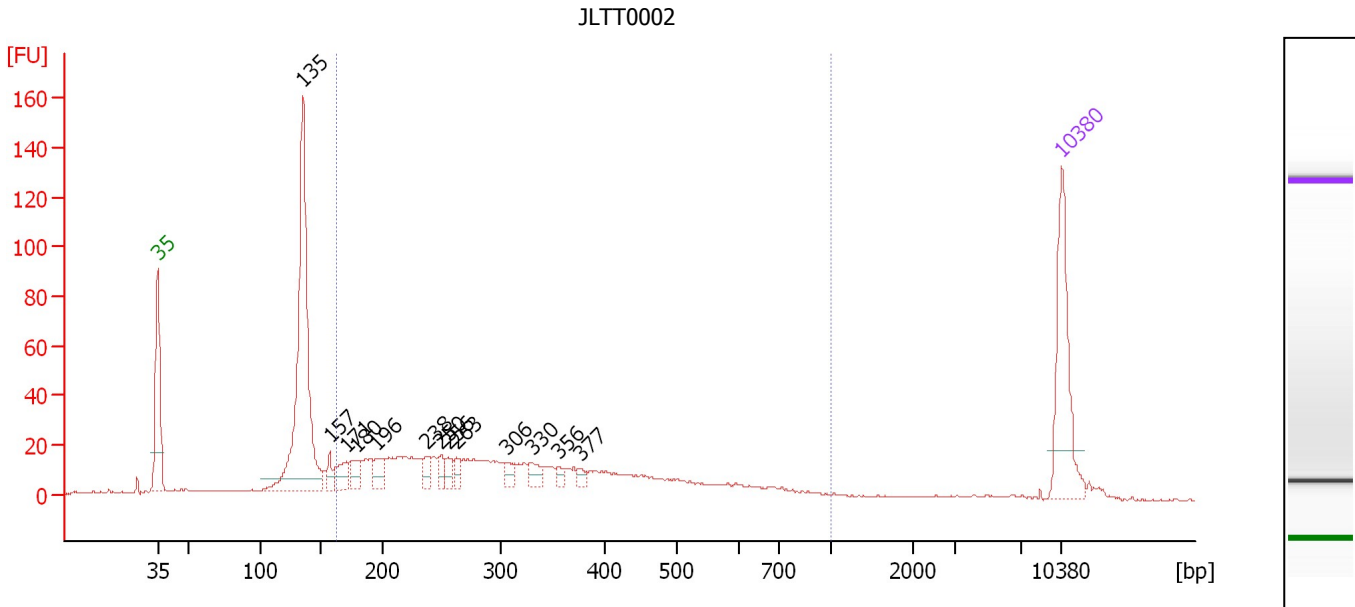
... Region table for sample 1 : JLTT0001

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
160	1,000	342	1,087.7	6,851.7	1,252.57	78	42.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : JLTT0002**

Number of peaks found: 13                      Corr. Area 1: 574.5  
 Noise: 0.4

**Peak table for sample 2 : JLTT0002**

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	135	320.40	3,588.3		54.26
3	157	13.01	125.4		56.33
4	171	23.10	204.9		57.61
5	180	18.47	155.8		58.44
6	196	20.61	159.6		59.94
7	238	14.01	89.3		63.81
8	250	11.84	71.9		64.91
9	256	12.06	71.4		65.48
10	263	10.80	62.1		66.19
11	306	11.67	57.9		70.01
12	330	13.17	60.4		71.99
13	356	5.86	25.0		74.02
14	377	5.64	22.6		75.73
15	10,380	75.00	10.9	Upper Marker	113.00

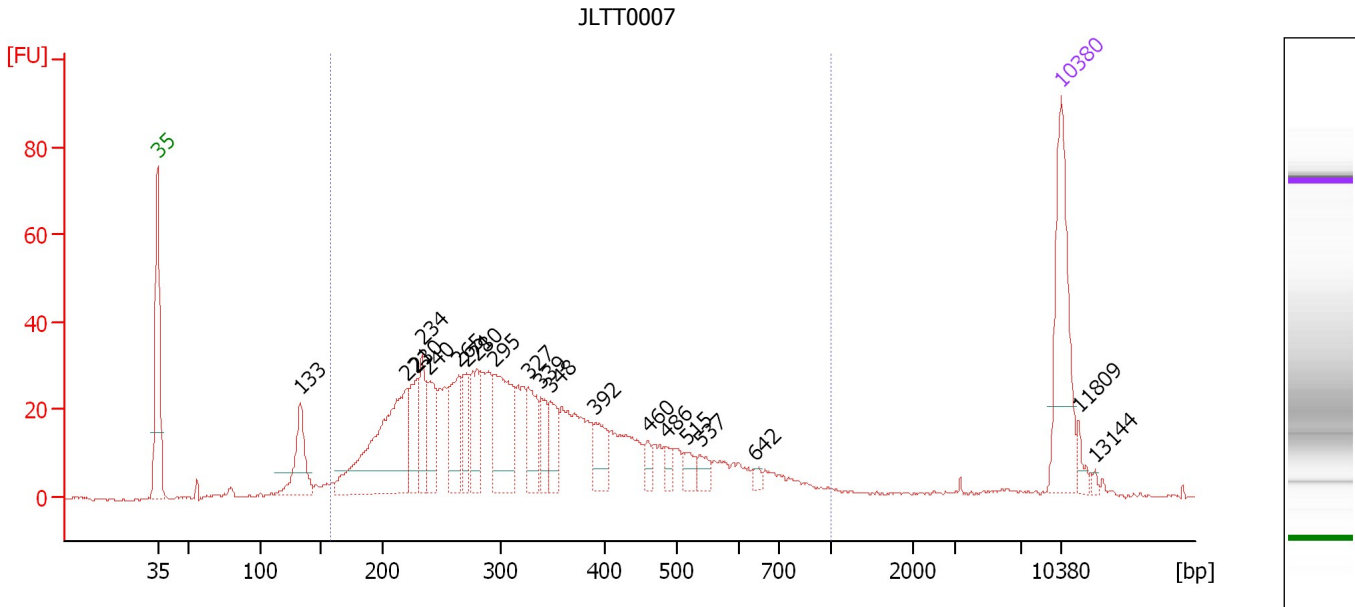
**Region table for sample 2 : JLTT0002**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
163	1,000	342	574.5	3,047.9	553.11	60	43.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : JLTT0007**

Number of peaks found: 20                      Corr. Area 1: 845.8  
 Noise: 0.3

**Peak table for sample 3 : JLTT0007**

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	133	57.92	658.3		54.08
3	221	168.12	1,150.8		62.32
4	230	41.09	271.3		63.07
5	234	42.50	274.8		63.51
6	240	44.75	282.4		64.04
7	265	52.47	300.4		66.30
8	271	32.37	180.7		66.92
9	280	44.57	241.2		67.72
10	295	82.36	423.1		69.09
11	327	41.76	193.3		71.75
12	339	22.98	102.7		72.68
13	348	28.81	125.5		73.39
14	392	26.88	104.0		76.89
15	460	9.15	30.2		80.97
16	486	9.91	30.9		82.43
17	515	11.68	34.4		83.94
18	537	9.78	27.6		85.00
19	642	4.54	10.7		89.25
20	10,380	75.00	10.9	Upper Marker	113.00
21	11,809	0.00	0.0		114.33
22	13,144	0.00	0.0		115.57



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary Continued ...**

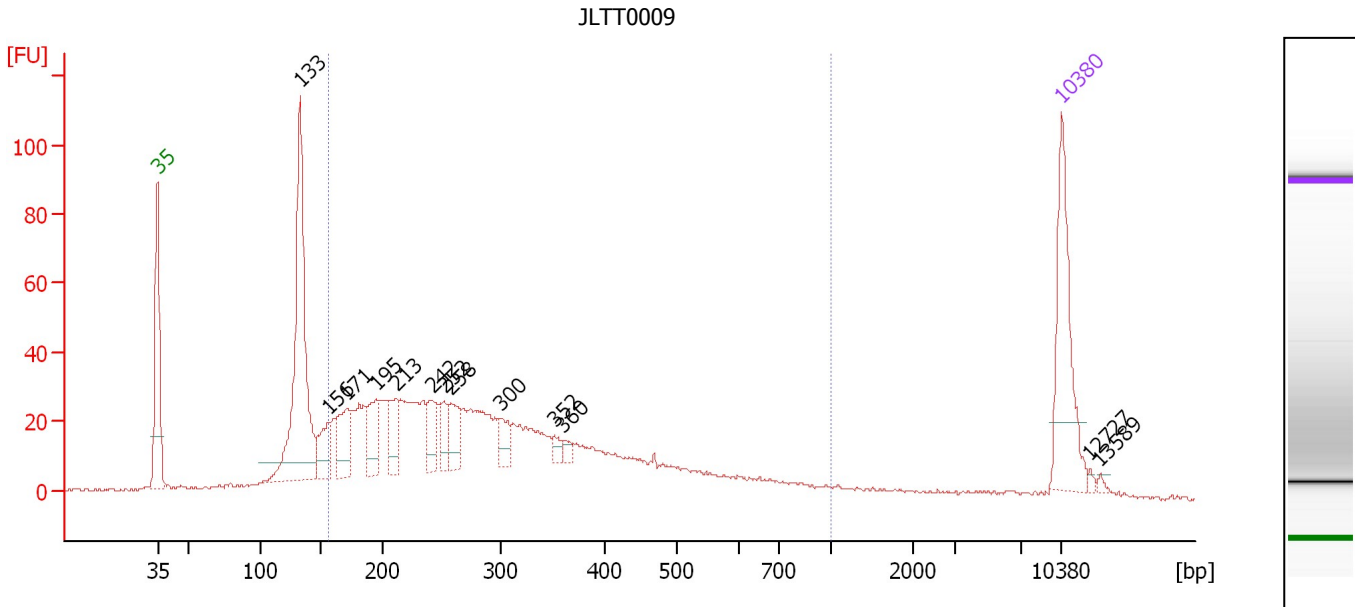
... Region table for sample 3 : JLTT0007

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
158	1,000	343	845.8	5,613.1	1,077.00	92	38.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : JLTT0009**

Number of peaks found: 13                      Corr. Area 1: 898.9  
 Noise: 0.5

**Peak table for sample 4 : JLTT0009**

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	133	255.54	2,912.0		54.04
3	156	34.61	336.0		56.23
4	171	43.22	383.5		57.61
5	195	40.78	316.1		59.92
6	213	30.09	214.3		61.52
7	242	29.33	183.5		64.24
8	252	19.93	119.6		65.18
9	258	31.71	186.1		65.71
10	300	18.23	92.0		69.58
11	352	7.44	32.0		73.73
12	360	6.90	29.1		74.35
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,727	0.00	0.0		115.18
15	13,589	0.00	0.0		115.98

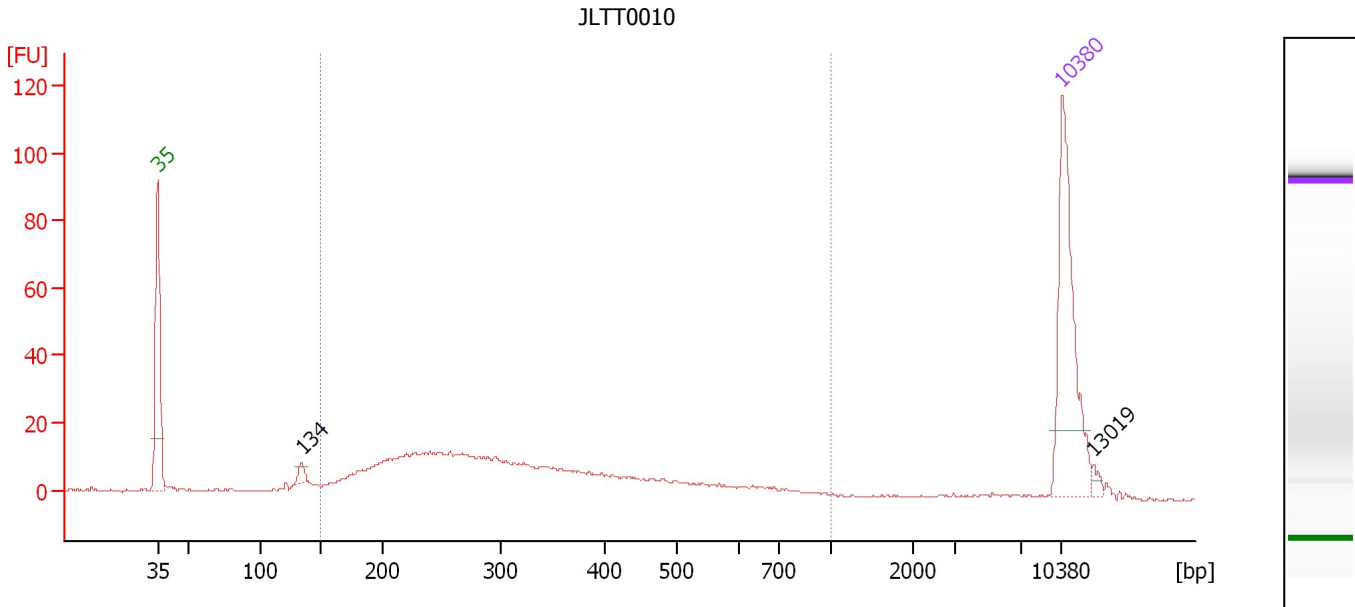
**Region table for sample 4 : JLTT0009**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
157	1,000	320	898.9	5,621.1	960.10	72	44.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : JLTT0010**

Number of peaks found: 2                      Corr. Area 1: 370.8  
 Noise: 0.4

**Peak table for sample 5 : JLTT0010**

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	134	6.84	77.3		54.15
3	10,380	75.00	10.9	Upper Marker	113.00
4	13,019	0.00	0.0		115.45

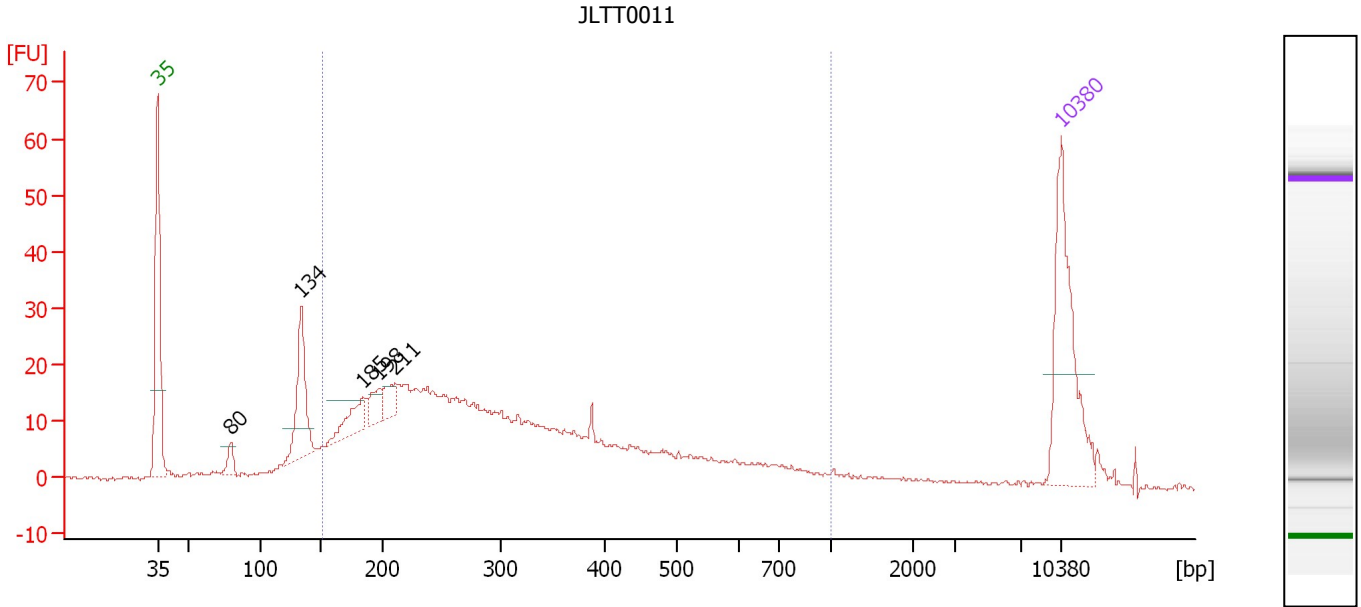
**Region table for sample 5 : JLTT0010**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
149	1,000	335	370.8	1,710.8	311.27	87	41.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : JLT0011**

Number of peaks found: 5                      Corr. Area 1: 519.1  
 Noise: 0.4

**Peak table for sample 6 : JLT0011**

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	80	11.78	224.4		48.64
3	134	69.85	791.7		54.11
4	185	27.26	223.7		58.91
5	198	16.78	128.5		60.16
6	211	15.92	114.3		61.36
7	10,380	75.00	10.9	Upper Marker	113.00

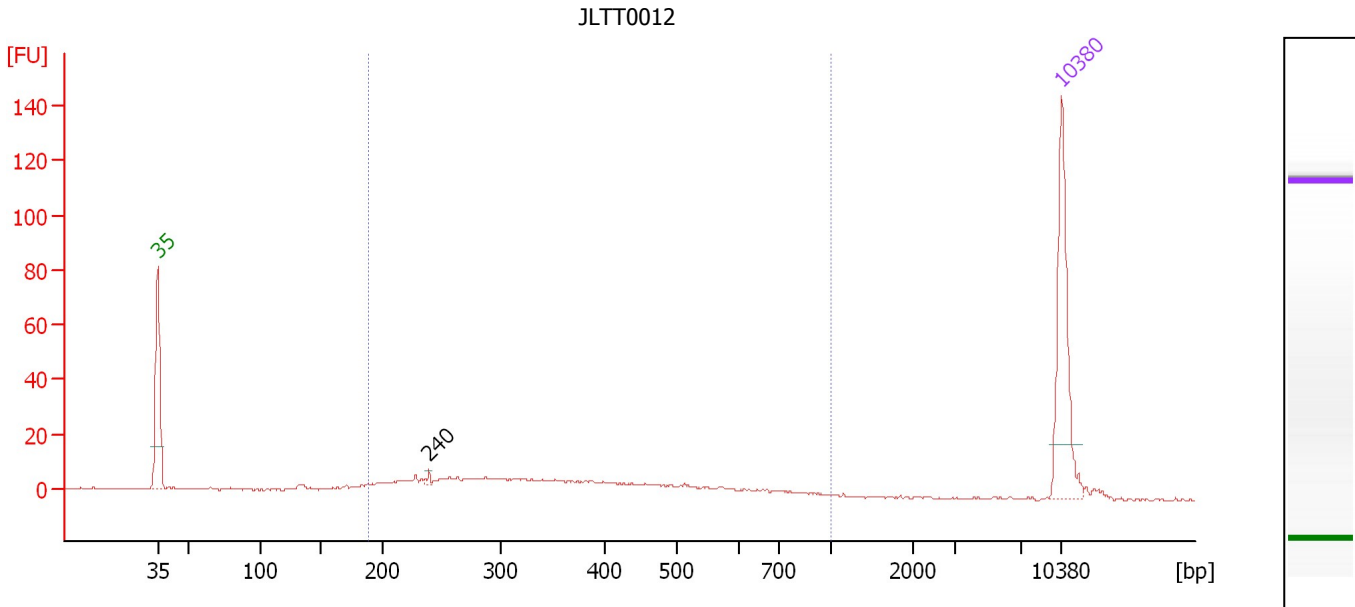
**Region table for sample 6 : JLT0011**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
151	1,000	326	519.1	4,290.3	738.97	82	45.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : JLTT0012**

Number of peaks found: 1                      Corr. Area 1: 195.0  
 Noise: 0.3

**Peak table for sample 7 : JLTT0012**

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	240	2.82	17.8		64.02
3	10,380	75.00	10.9	Upper Marker	113.00

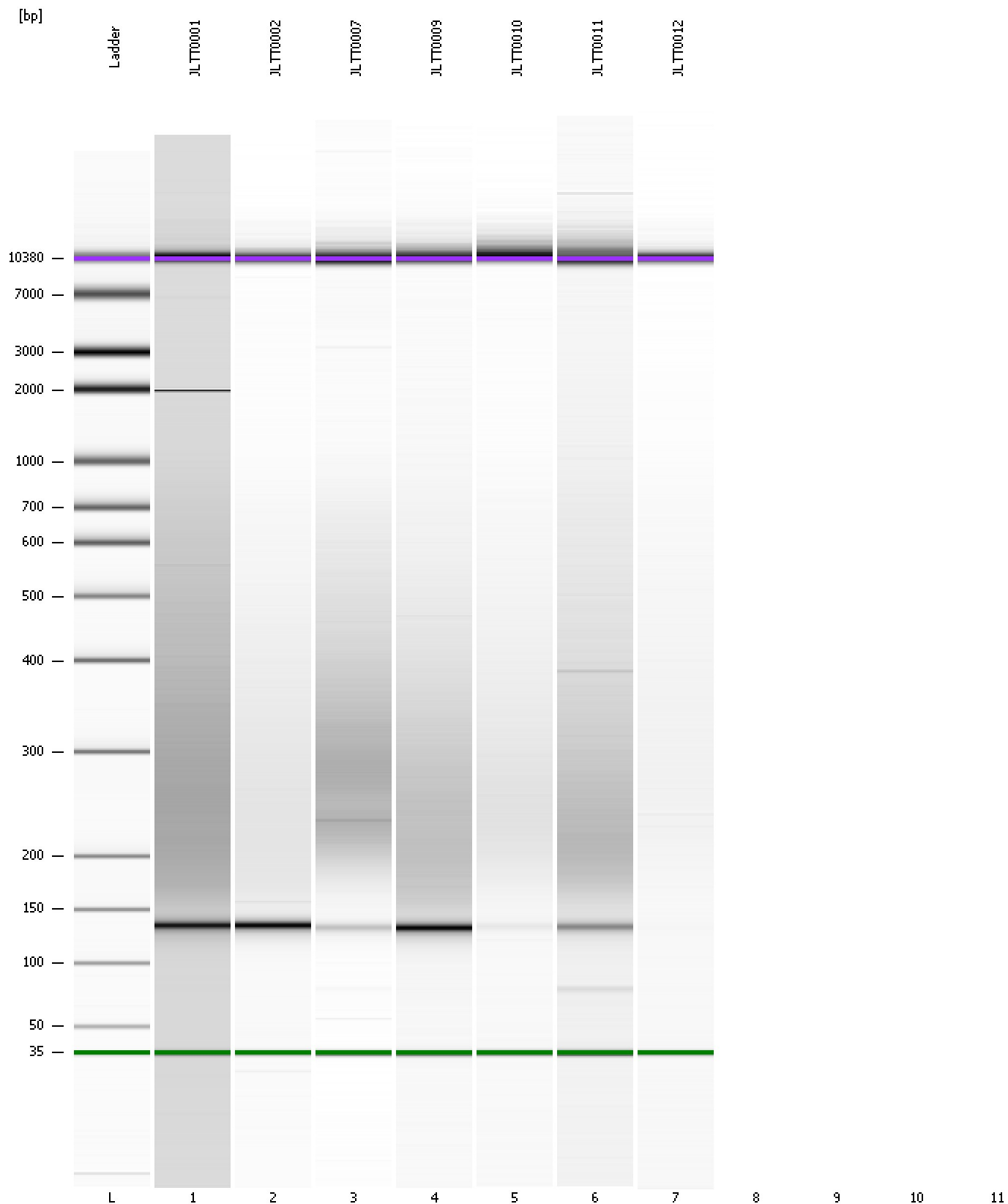
**Region table for sample 7 : JLTT0012**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
189	1,000	381	195.0	934.7	195.62	77	39.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-24\2017-08-24\_003.xad

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**Invalid Samples**

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.