

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-02\2016-12-02\_003.xad

Created: 12/2/2016 2:19:22 PM  
Modified: 12/2/2016 2:53:07 PM

**Electrophoresis File Run Summary**

Instrument Information:

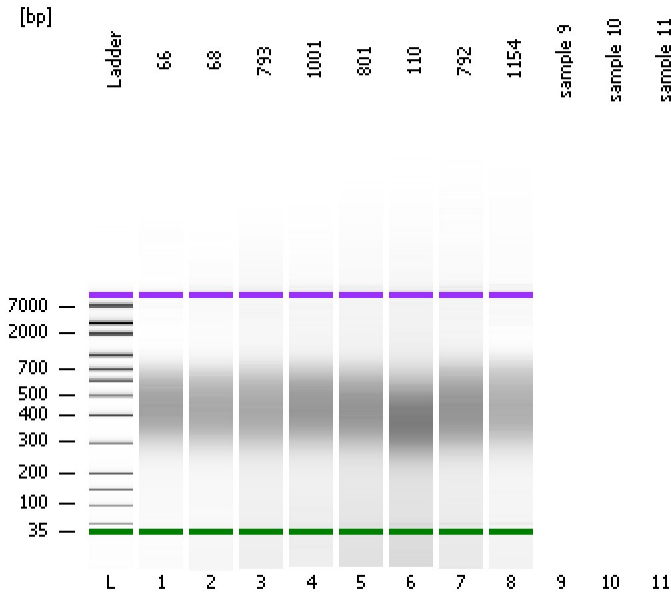
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:

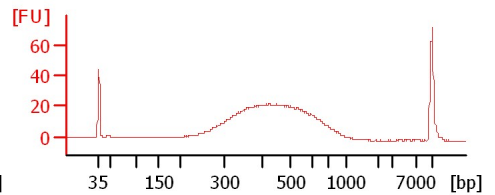
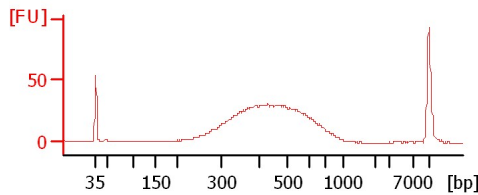
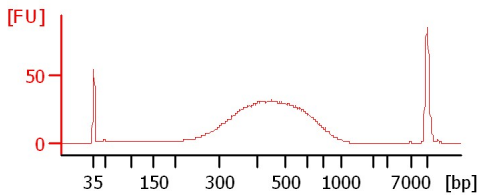
Chip Lot #:  
Reagent Kit Lot #:  
Chip Comments:



66

68

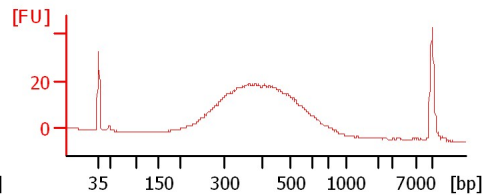
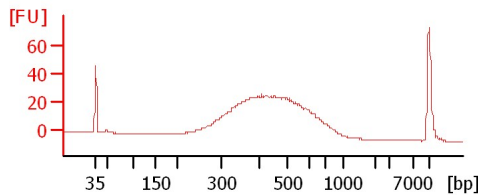
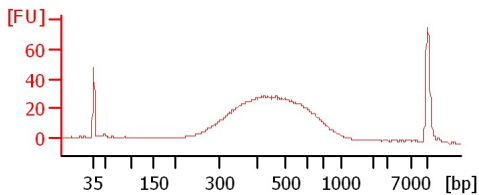
793



1001

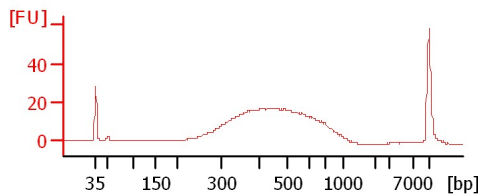
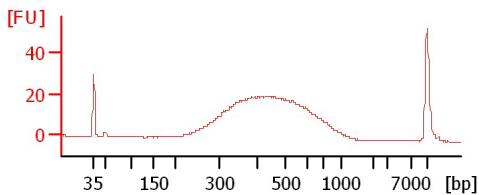
801

110



792

1154



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
66		<input type="checkbox"/>	✓			
68		<input type="checkbox"/>	✓			
793		<input type="checkbox"/>	✓			
1001		<input type="checkbox"/>	✓			
801		<input type="checkbox"/>	✓			
110		<input type="checkbox"/>	✓			
792		<input type="checkbox"/>	✓			
1154		<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 :**

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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

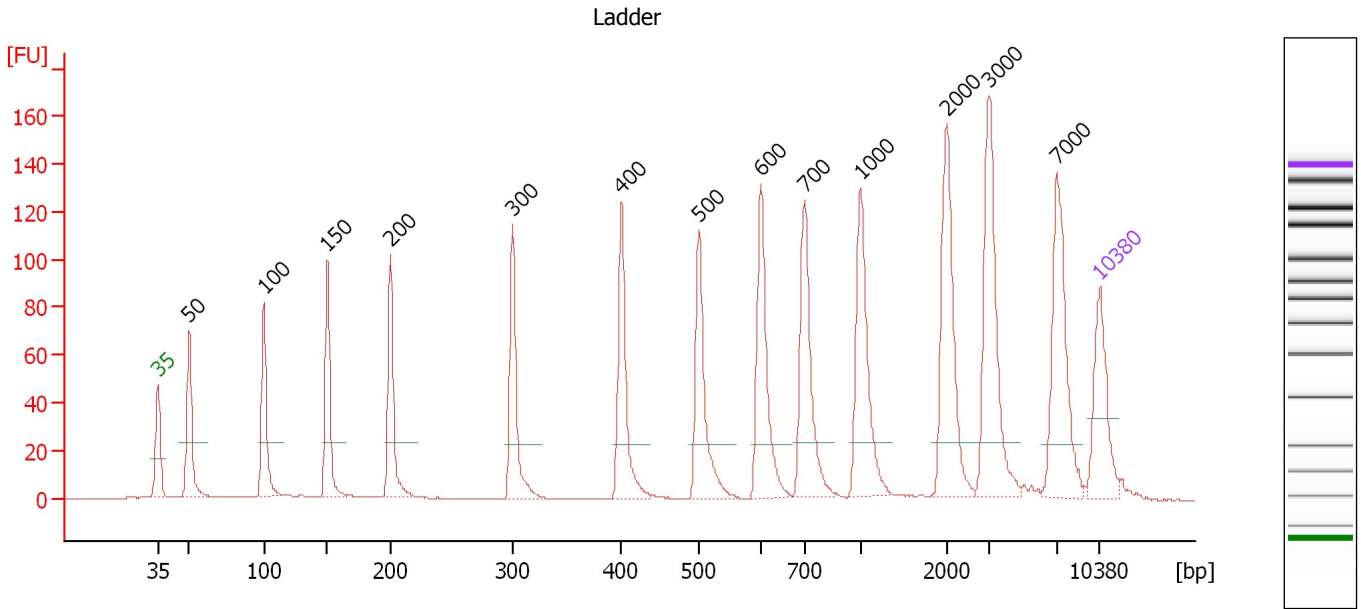
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

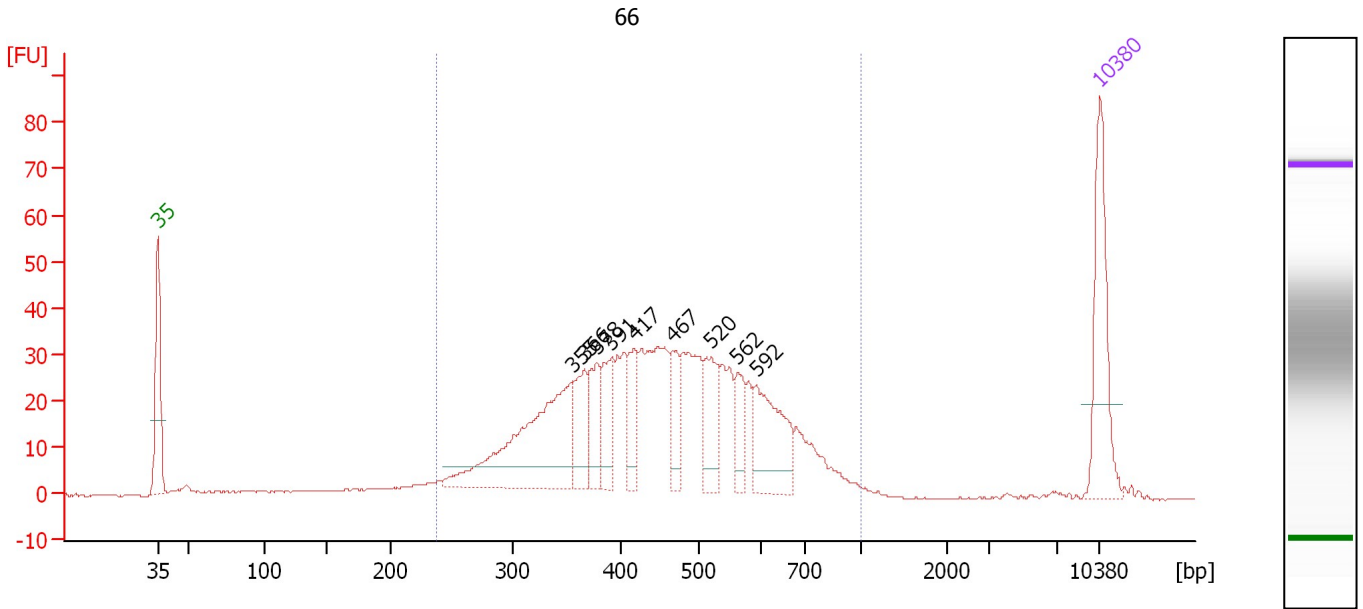
**Peak table for Ladder**

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.91
4	150	150.00	1,515.2	Ladder Peak	55.60
5	200	150.00	1,136.4	Ladder Peak	60.30
6	300	150.00	757.6	Ladder Peak	69.38
7	400	150.00	568.2	Ladder Peak	77.44
8	500	150.00	454.5	Ladder Peak	83.20
9	600	150.00	378.8	Ladder Peak	87.80
10	700	150.00	324.7	Ladder Peak	91.06
11	1,000	150.00	227.3	Ladder Peak	95.19
12	2,000	150.00	113.6	Ladder Peak	101.62
13	3,000	150.00	75.8	Ladder Peak	104.79
14	7,000	150.00	32.5	Ladder Peak	109.79
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 66**

Number of peaks found: 9                      Corr. Area 1: 759.3  
 Noise: 0.2

**Peak table for sample 1 : 66**

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	355	195.08	831.7		73.84
3	366	48.76	201.7		74.72
4	378	43.73	175.5		75.64
5	391	44.78	173.5		76.72
6	417	39.08	142.1		78.41
7	467	32.71	106.2		81.28
8	520	51.77	150.9		84.11
9	562	29.92	80.7		86.06
10	592	79.83	204.2		87.44
11	10,380	75.00	10.9	Upper Marker	113.00

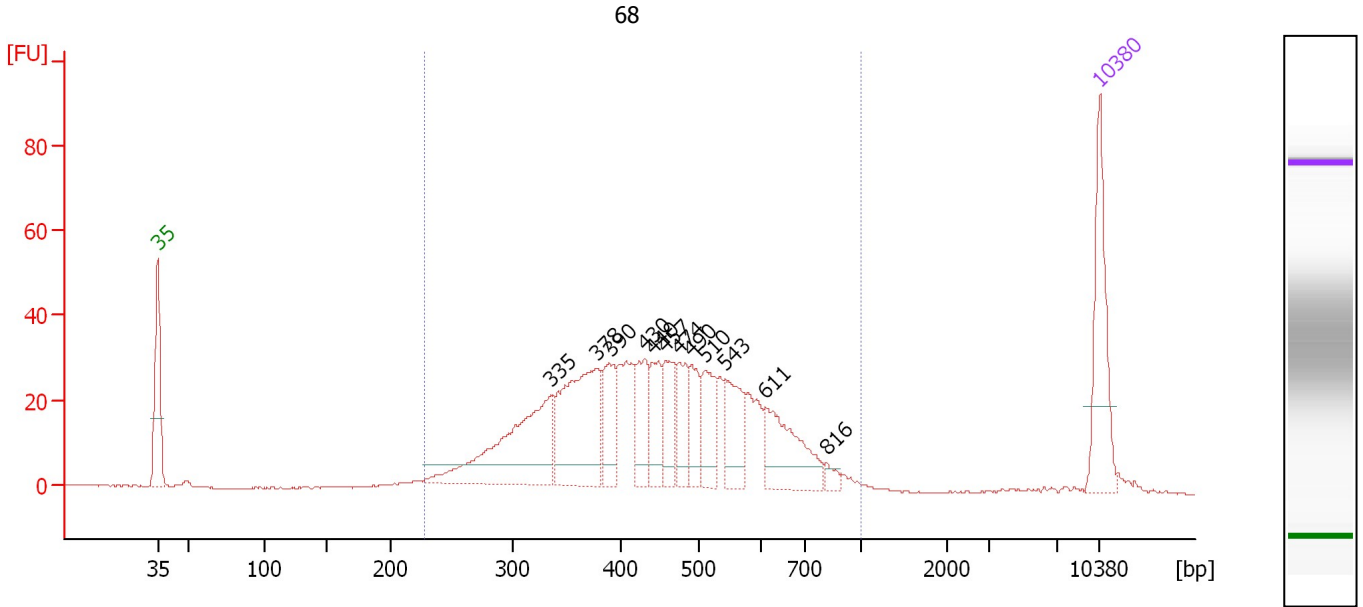
**Region table for sample 1 : 66**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
238	1,000	466	759.3	3,714.4	1,030.38	94	27.8

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 68**

Number of peaks found: 12                      Corr. Area 1: 746.6  
 Noise: 0.1

**Peak table for sample 2 : 68**

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	335	177.95	804.3		72.22
3	378	159.26	639.2		75.63
4	390	51.80	201.4		76.61
5	430	51.31	180.7		79.19
6	440	45.44	156.4		79.76
7	457	42.92	142.2		80.74
8	474	39.26	125.4		81.72
9	490	39.56	122.2		82.65
10	510	48.21	143.1		83.68
11	543	52.61	146.8		85.18
12	611	78.93	195.6		88.17
13	816	8.26	15.3		92.66
14	10,380	75.00	10.9	Upper Marker	113.00

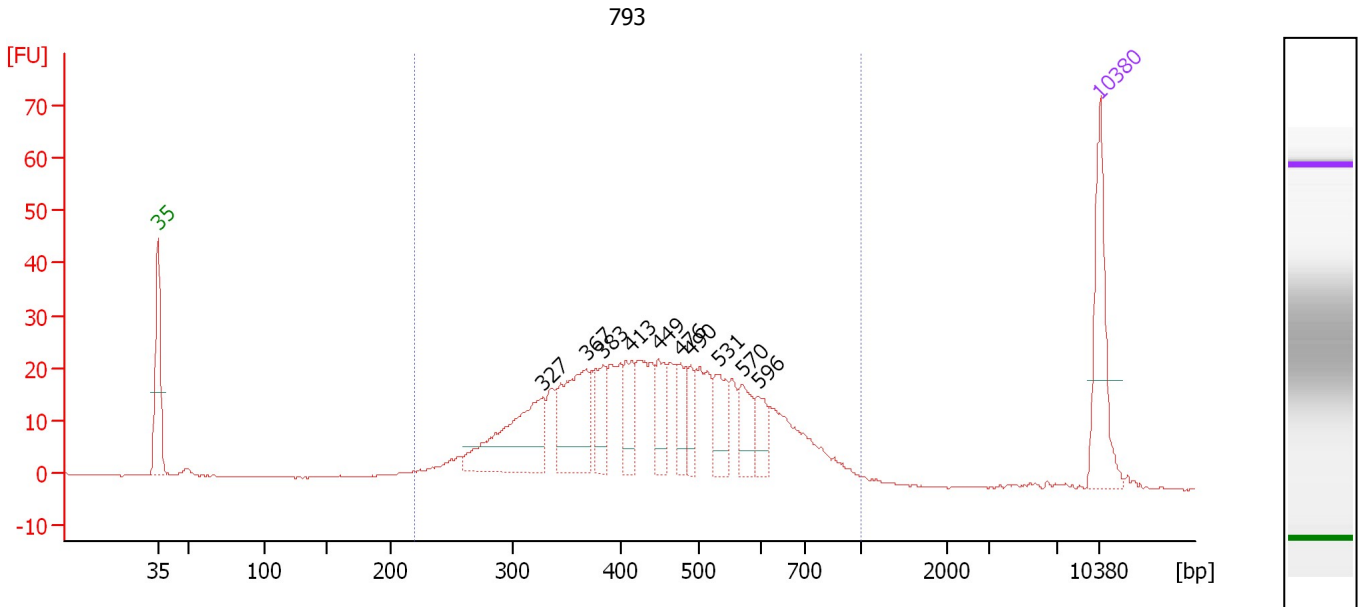
**Region table for sample 2 : 68**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
228	1,000	457	746.6	3,795.6	1,031.63	96	28.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-02\2016-12-02\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 793**

Number of peaks found: 10                      Corr. Area 1: 597.5  
 Noise: 0.1

**Peak table for sample 3 : 793**

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	327	134.27	621.3		71.59
3	367	110.33	455.0		74.81
4	383	42.14	166.7		76.07
5	413	40.08	147.1		78.18
6	449	41.53	140.2		80.24
7	476	30.44	96.9		81.82
8	490	29.55	91.4		82.62
9	531	43.59	124.4		84.62
10	570	35.86	95.3		86.41
11	596	28.29	71.9		87.63
12	10,380	75.00	10.9	Upper Marker	113.00

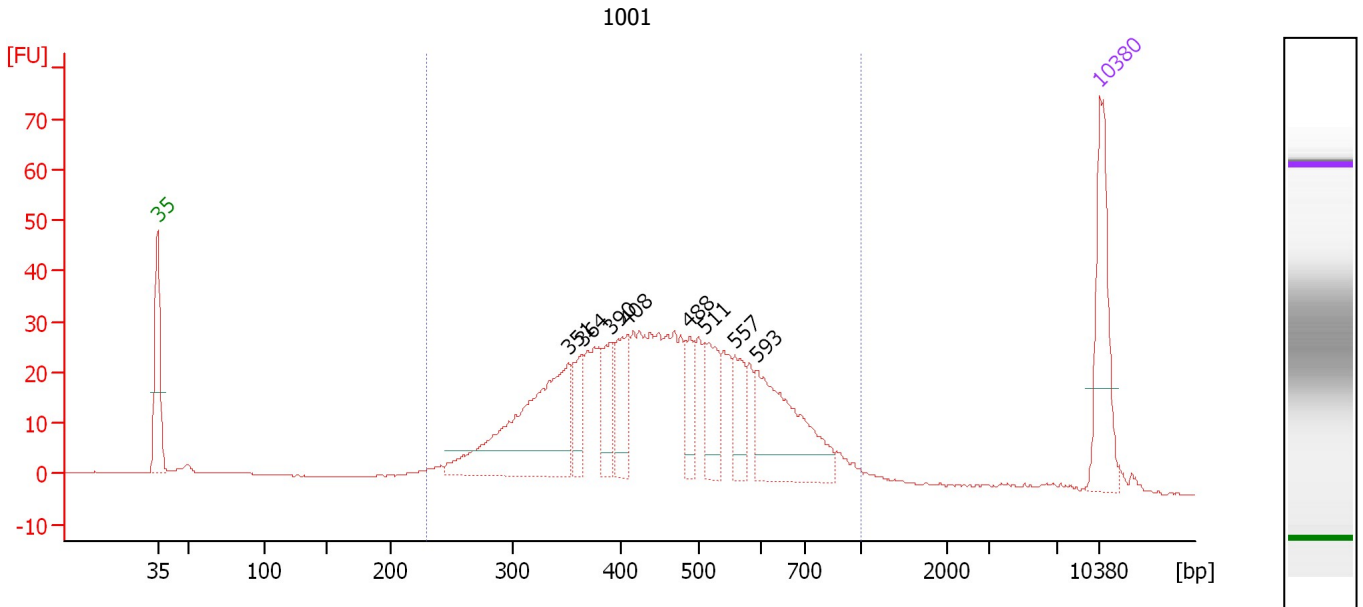
**Region table for sample 3 : 793**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
220	1,000	460	597.5	3,964.6	1,073.24	93	29.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-02\2016-12-02\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1001**

Number of peaks found: 8                      Corr. Area 1: 724.8  
 Noise: 0.1

**Peak table for sample 4 : 1001**

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	351	211.85	914.5		73.49
3	364	33.09	137.8		74.52
4	390	45.90	178.3		76.64
5	408	55.47	206.1		77.89
6	488	33.97	105.5		82.51
7	511	53.53	158.7		83.71
8	557	37.00	100.6		85.83
9	593	126.57	323.6		87.46
10	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 1001**

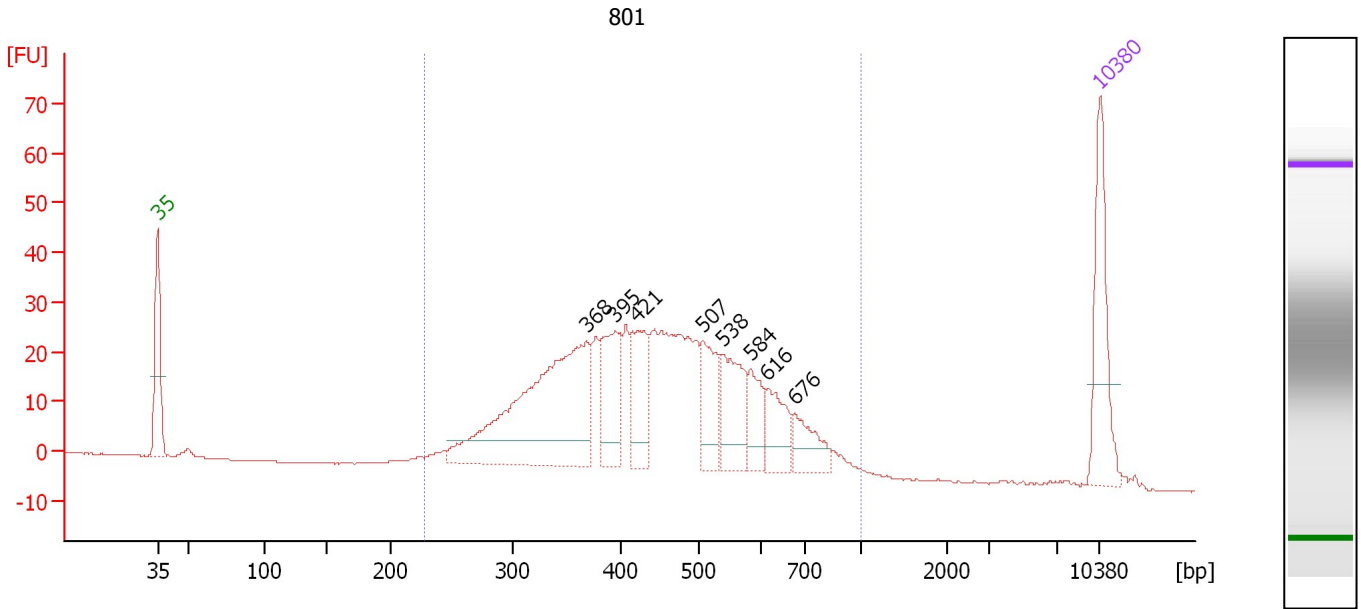
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
229	1,000	469	724.8	3,926.5	1,087.97	92	29.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-02\2016-12-02\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 801**

Number of peaks found: 8                      Corr. Area 1: 665.1  
 Noise: 0.1

**Peak table for sample 5 : 801**

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	368	302.12	1,244.1		74.85
3	395	78.58	301.5		77.03
4	421	67.10	241.6		78.64
5	507	61.00	182.2		83.54
6	538	72.02	203.0		84.93
7	584	38.19	99.1		87.05
8	616	44.49	109.4		88.33
9	676	38.42	86.1		90.28
10	10,380	75.00	10.9	Upper Marker	113.00

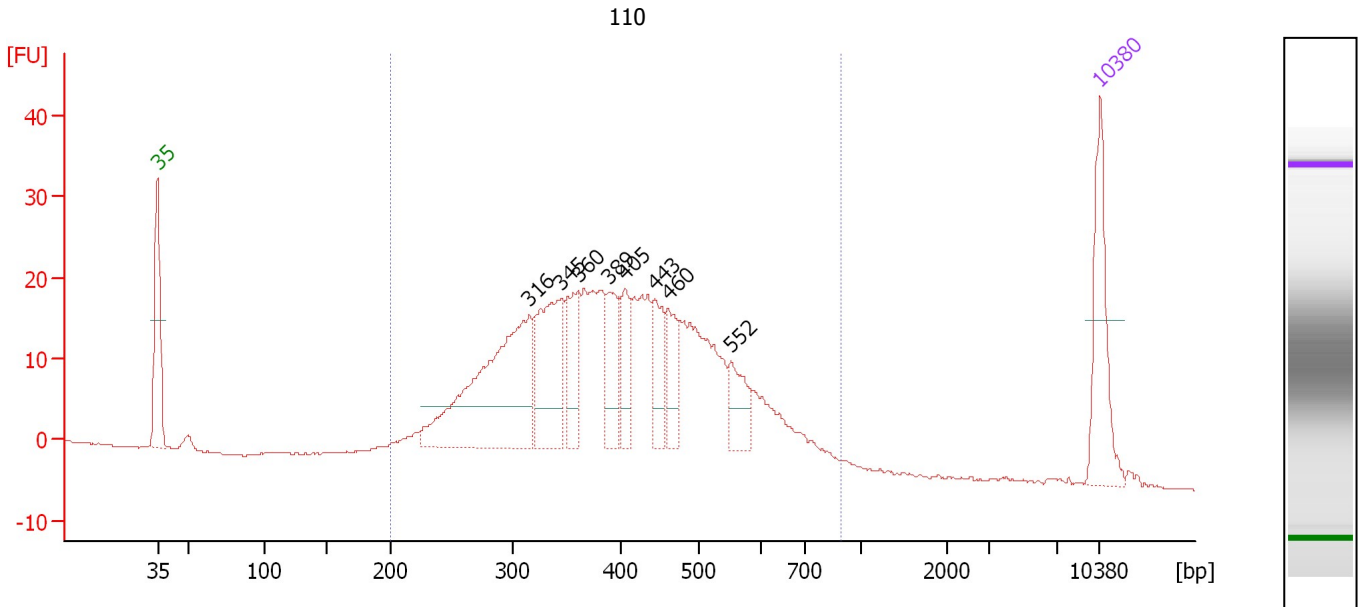
**Region table for sample 5 : 801**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
228	1,000	458	665.1	3,864.8	1,053.71	99	27.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-02\2016-12-02\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 110**

Number of peaks found: 8                      Corr. Area 1: 516.2  
 Noise: 0.1

**Peak table for sample 6 : 110**

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	316	279.03	1,339.6		70.63
3	345	129.27	568.3		72.98
4	360	62.01	260.8		74.23
5	389	62.23	242.7		76.52
6	405	47.15	176.5		77.71
7	443	48.49	165.7		79.94
8	460	47.70	157.0		80.91
9	552	43.43	119.2		85.59
10	10,380	75.00	10.9	Upper Marker	113.00

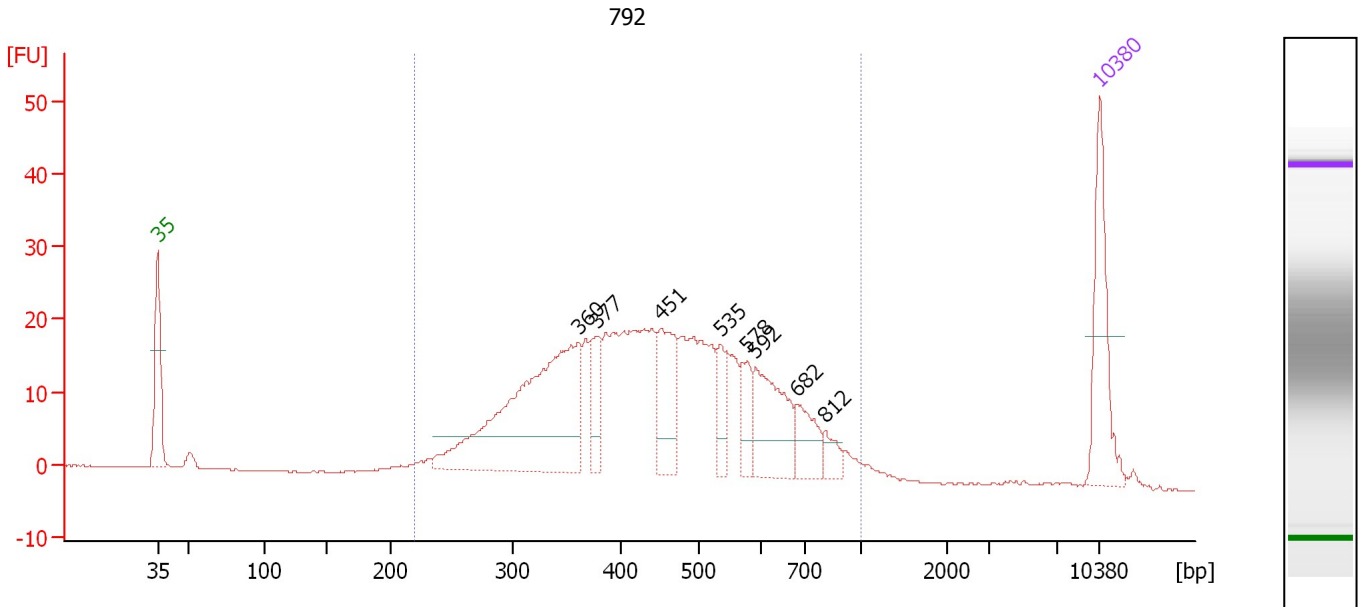
**Region table for sample 6 : 110**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	891	412	516.2	5,522.6	1,355.55	99	27.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-02\2016-12-02\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 792**

Number of peaks found: 8                      Corr. Area 1: 508.6  
 Noise: 0.1

**Peak table for sample 7 : 792**

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	360	310.74	1,306.3		74.25
3	377	44.69	179.6		75.60
4	451	76.80	257.8		80.40
5	535	35.42	100.4		84.80
6	578	29.30	76.8		86.79
7	592	86.88	222.3		87.44
8	682	38.84	86.2		90.49
9	812	15.78	29.5		92.60
10	10,380	75.00	10.9	Upper Marker	113.00

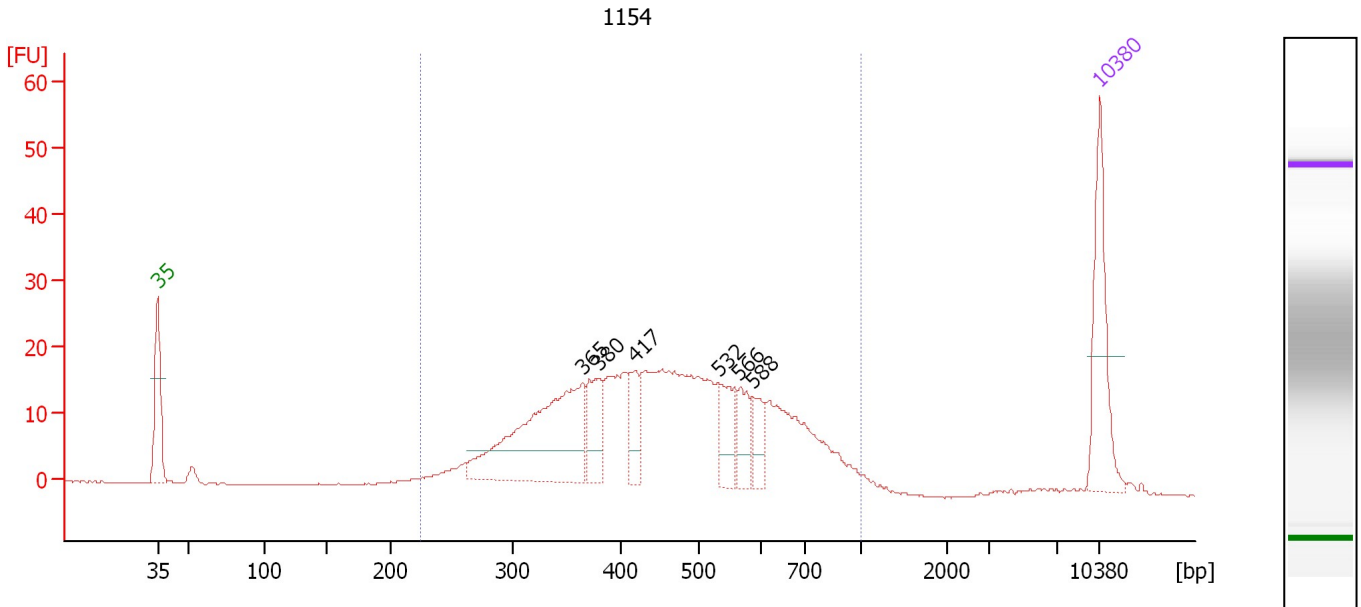
**Region table for sample 7 : 792**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
220	1,000	462	508.6	4,397.9	1,190.53	96	30.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 1154**

Number of peaks found: 6                      Corr. Area 1: 429.7  
 Noise: 0.1

**Peak table for sample 8 : 1154**

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	365	214.98	892.2		74.62
3	380	52.18	208.2		75.81
4	417	35.94	130.6		78.41
5	532	43.55	123.9		84.69
6	566	33.72	90.3		86.23
7	588	25.47	65.6		87.24
8	10,380	75.00	10.9	Upper Marker	113.00

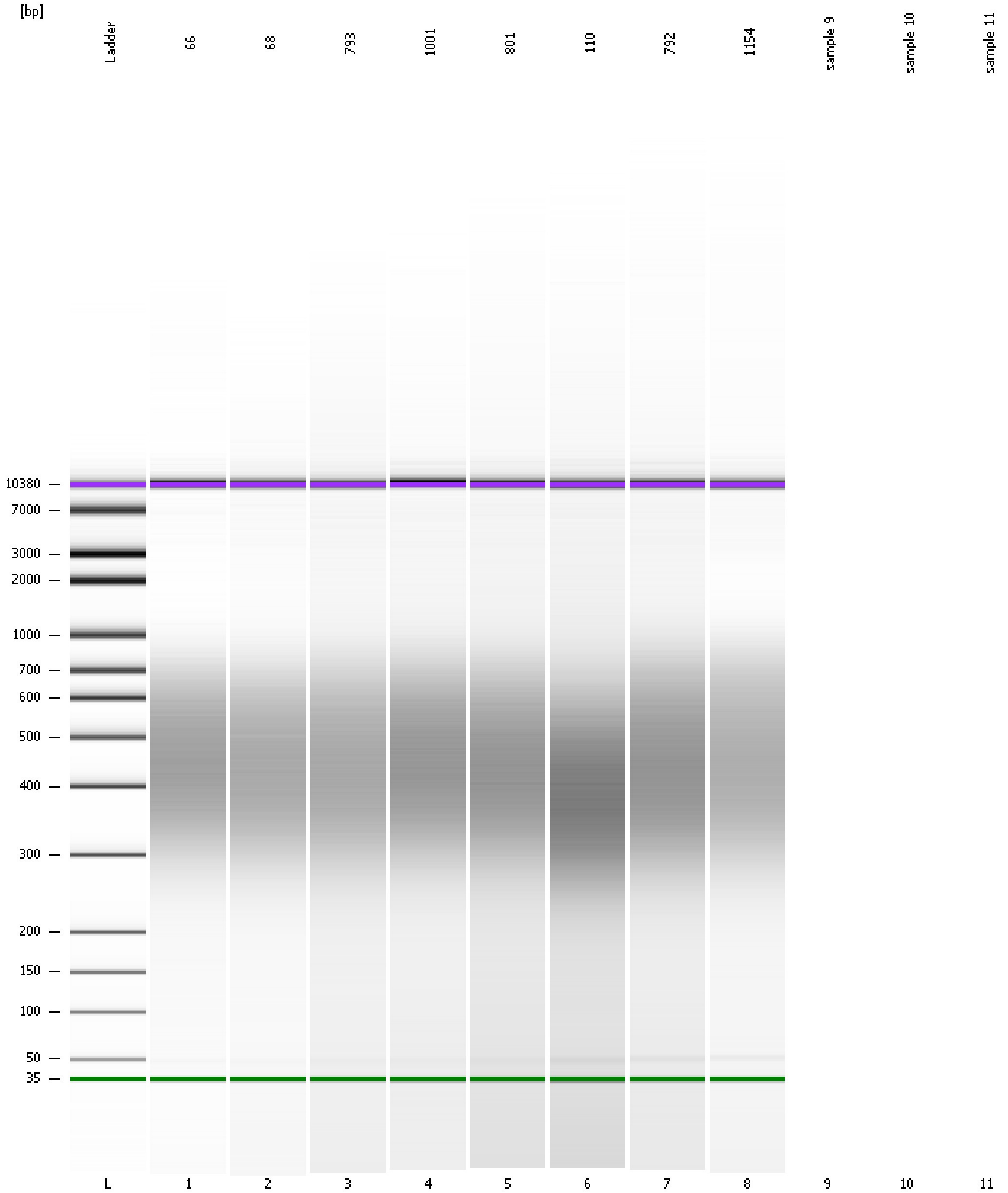
**Region table for sample 8 : 1154**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
224	1,000	473	429.7	3,361.2	933.37	97	30.2

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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-02\2016-12-02\_003.xad

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**Invalid Samples**

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.

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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		12/2/2016 2:52:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-02\2016-12-02_003.xad)		Instrument	Run		12/2/2016 2:19:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2016 2:19:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2016 2:19:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2016 2:19:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2016 2:19:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2016 2:19:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2016 2:19:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1