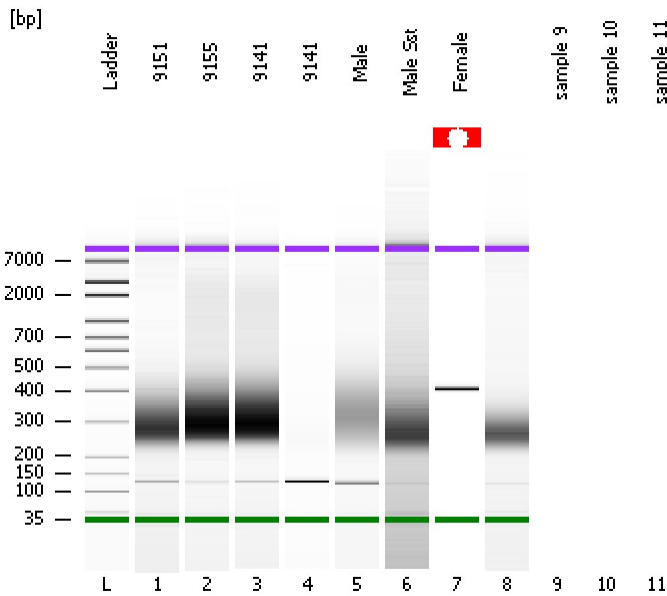


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
Modified: 3/1/2017 3:32:31 PM

**Electrophoresis File Run Summary**



Instrument Information:

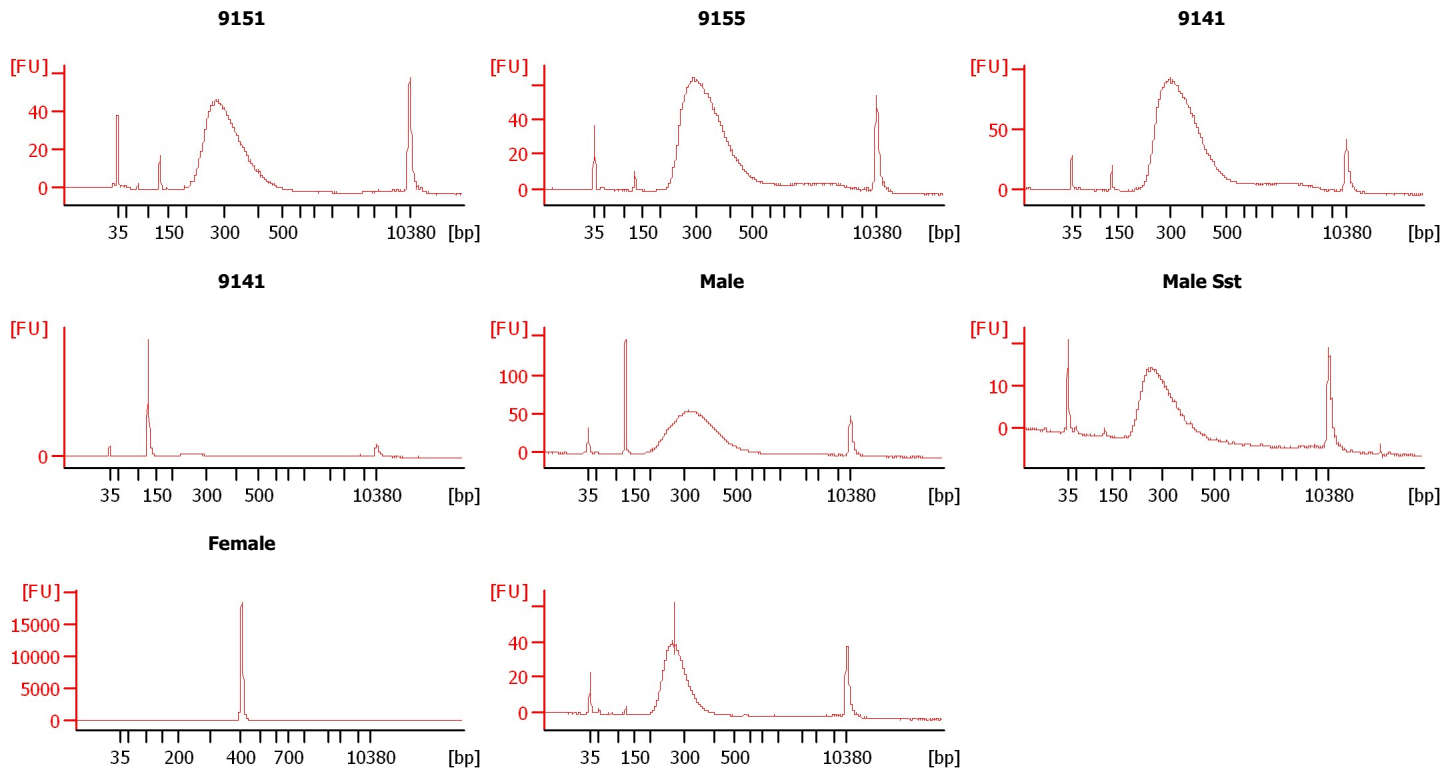
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
9151		<input type="checkbox"/>	✓			
9155		<input type="checkbox"/>	✓			
9141		<input type="checkbox"/>	✓			
9141		<input type="checkbox"/>	✓			
Male		<input type="checkbox"/>	✓			
Male Sst		<input type="checkbox"/>	✓			
Female		<input type="checkbox"/>	⚠			
		<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:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
Modified: 3/1/2017 3:32:31 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

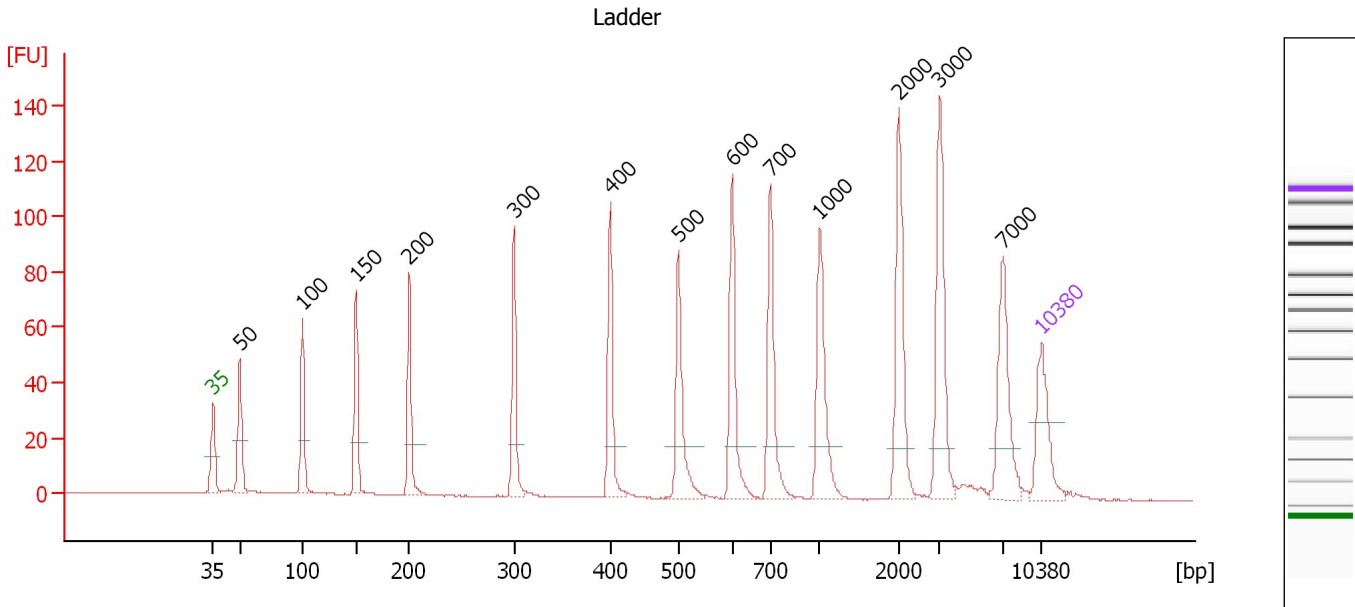
**Ladder**

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\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

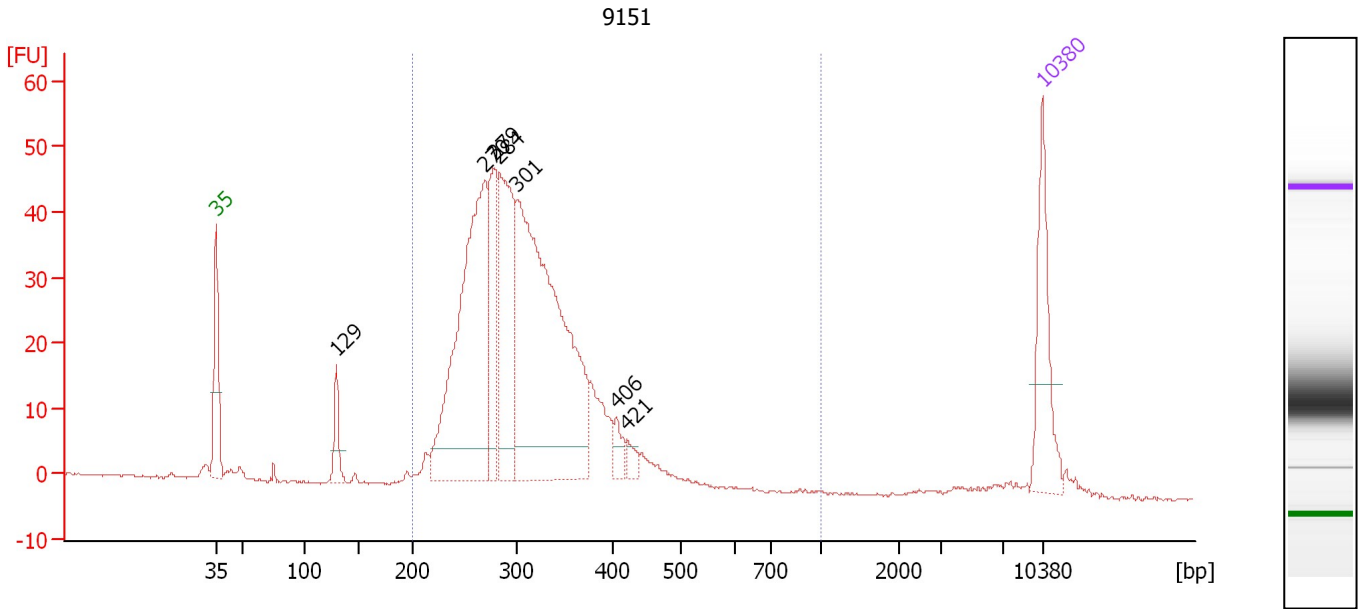
**Peak table for Ladder**

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	45.25
3	100	150.00	2,272.7	Ladder Peak	50.52
4	150	150.00	1,515.2	Ladder Peak	55.07
5	200	150.00	1,136.4	Ladder Peak	59.58
6	300	150.00	757.6	Ladder Peak	68.41
7	400	150.00	568.2	Ladder Peak	76.56
8	500	150.00	454.5	Ladder Peak	82.32
9	600	150.00	378.8	Ladder Peak	86.87
10	700	150.00	324.7	Ladder Peak	90.07
11	1,000	150.00	227.3	Ladder Peak	94.26
12	2,000	150.00	113.6	Ladder Peak	100.93
13	3,000	150.00	75.8	Ladder Peak	104.40
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 9151**

Number of peaks found: 7                      Corr. Area 1: 714.1  
 Noise: 0.2

**Peak table for sample 1 : 9151**

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	129	40.78	478.7		53.17
3	270	426.63	2,392.2		65.78
4	279	118.86	644.5		66.59
5	284	199.85	1,066.1		67.00
6	301	576.05	2,899.6		68.49
7	406	18.42	68.8		76.89
8	421	12.85	46.2		77.80
9	10,380	75.00	10.9	Upper Marker	113.00

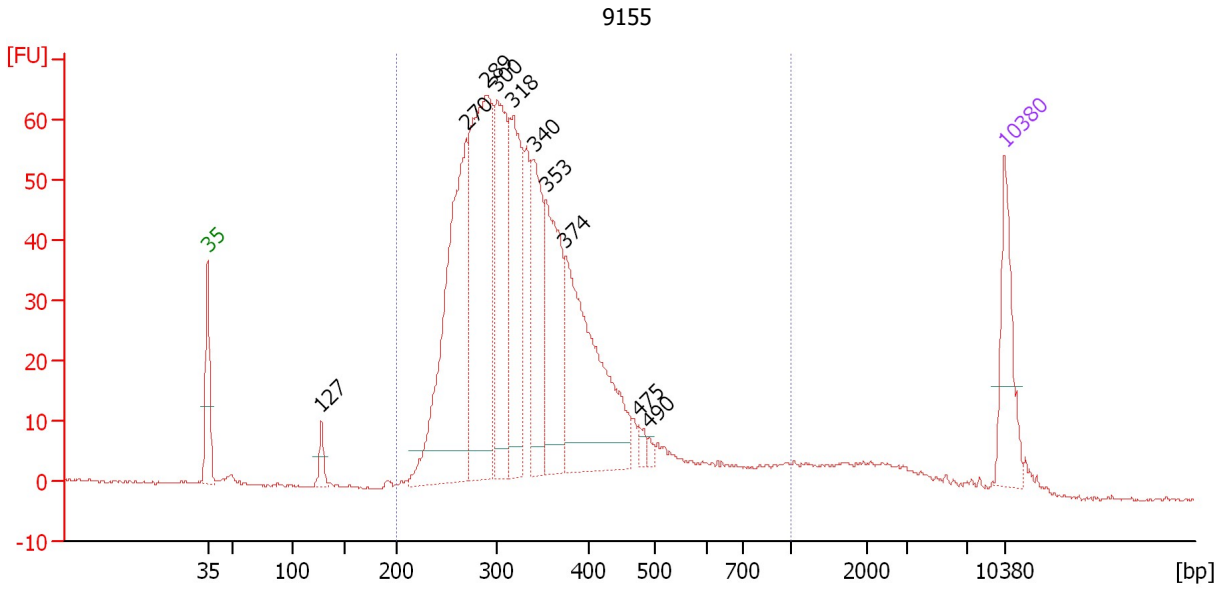
**Region table for sample 1 : 9151**

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	310	714.1	7,610.4	1,500.79	95	18.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 9155**

Number of peaks found: 10                      Corr. Area 1: 1,170.1  
 Noise: 0.2

**Peak table for sample 2 : 9155**

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	127	25.18	300.4		52.98
3	270	442.73	2,487.8		65.72
4	289	441.90	2,314.6		67.46
5	300	256.26	1,292.3		68.44
6	318	222.05	1,059.0		69.85
7	340	160.96	717.1		71.67
8	353	206.18	885.6		72.71
9	374	322.66	1,307.2		74.44
10	475	12.14	38.7		80.90
11	490	6.05	18.7		81.75
12	10,380	75.00	10.9	Upper Marker	113.00

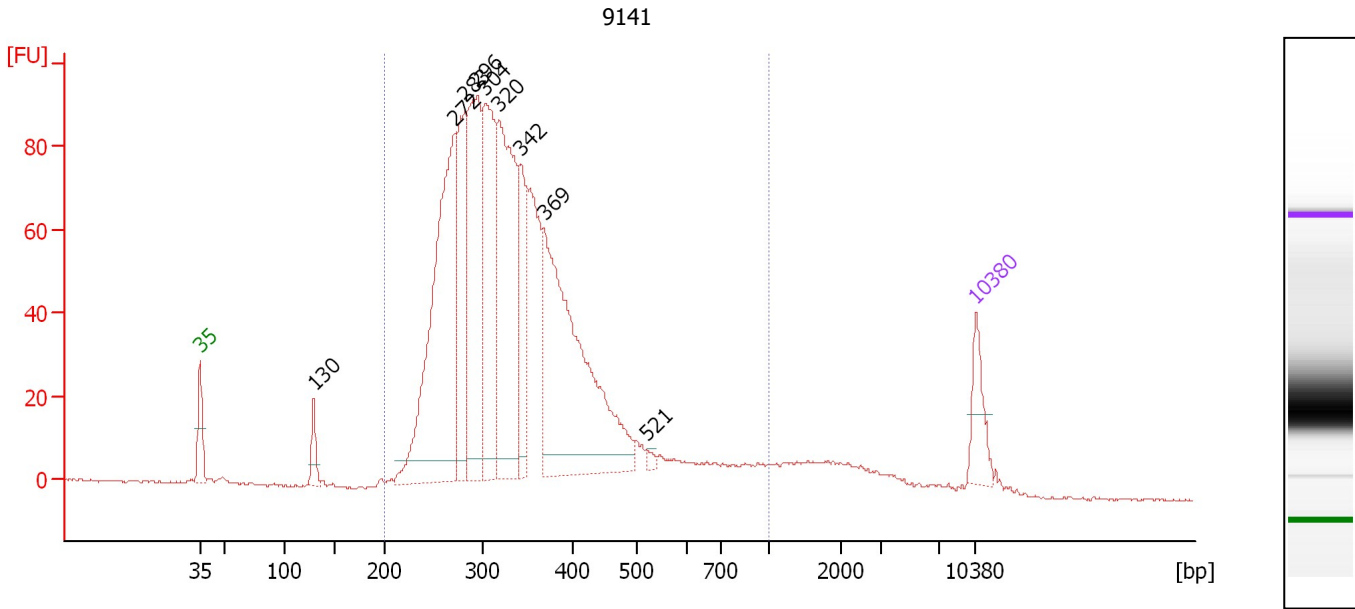
**Region table for sample 2 : 9155**

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	351	1,170.1	11,510.1	2,446.71	93	31.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 9141**

Number of peaks found: 9                      Corr. Area 1: 1,689.3  
 Noise: 0.3

**Peak table for sample 3 : 9141**

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	130	63.63	741.4		53.25
3	272	936.47	5,209.8		65.96
4	283	333.24	1,785.9		66.88
5	296	504.28	2,583.0		68.03
6	304	465.65	2,318.5		68.76
7	320	642.95	3,047.5		70.01
8	342	215.46	954.3		71.84
9	369	862.46	3,544.5		74.00
10	521	12.18	35.4		83.30
11	10,380	75.00	10.9	Upper Marker	113.00

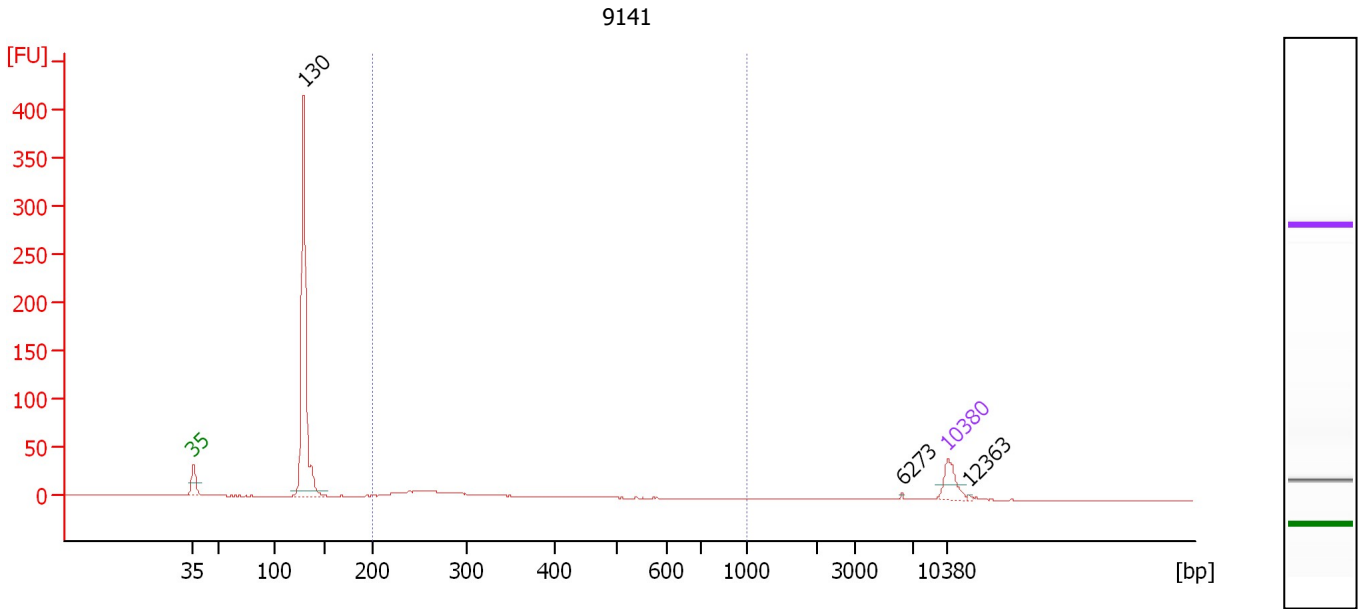
**Region table for sample 3 : 9141**

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	353	1,689.3	22,193.5	4,739.66	93	31.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 9141**

Number of peaks found: 3                      Corr. Area 1: 74.9  
 Noise: 0.2

**Peak table for sample 4 : 9141**

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	130	1,232.63	14,380.8		53.24
3	6,273	2.85	0.7		108.75
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,363	0.00	0.0		114.93

**Region table for sample 4 : 9141**

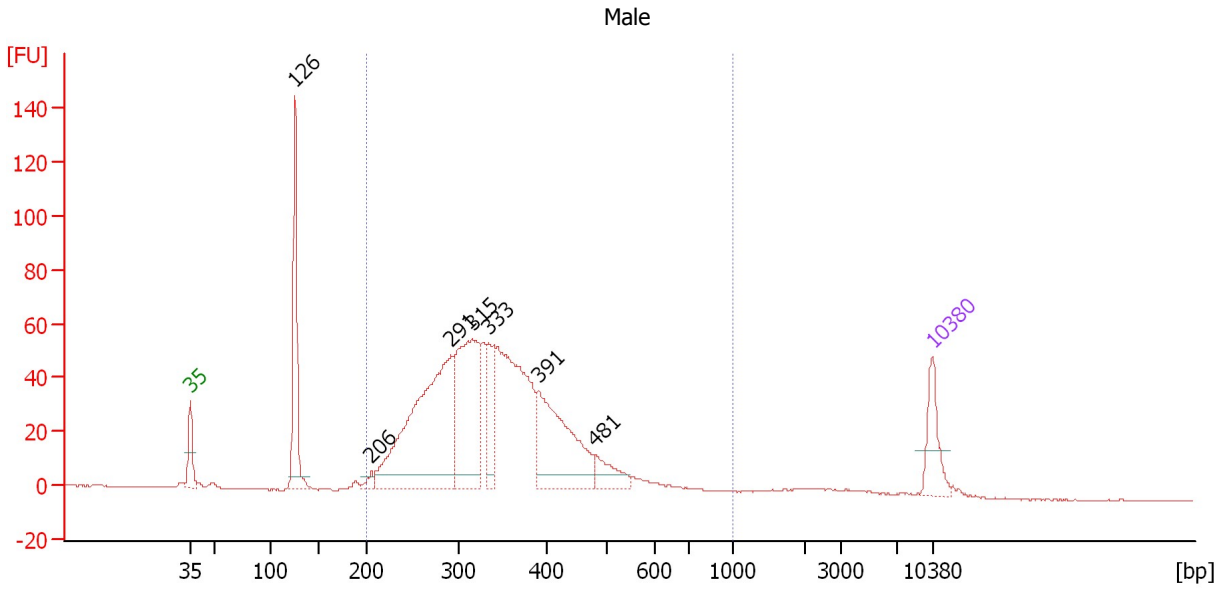
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	289	74.9	1,042.3	189.53	15	22.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Male**

Number of peaks found: 7                      Corr. Area 1: 1,120.0  
 Noise: 0.2

**Peak table for sample 5 : Male**

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	126	346.62	4,161.5		52.91
3	206	19.17	141.0		60.10
4	291	719.71	3,750.3		67.59
5	315	403.87	1,944.6		69.60
6	333	128.83	585.9		71.11
7	391	341.79	1,323.9		75.84
8	481	67.24	211.9		81.22
9	10,380	75.00	10.9	Upper Marker	113.00

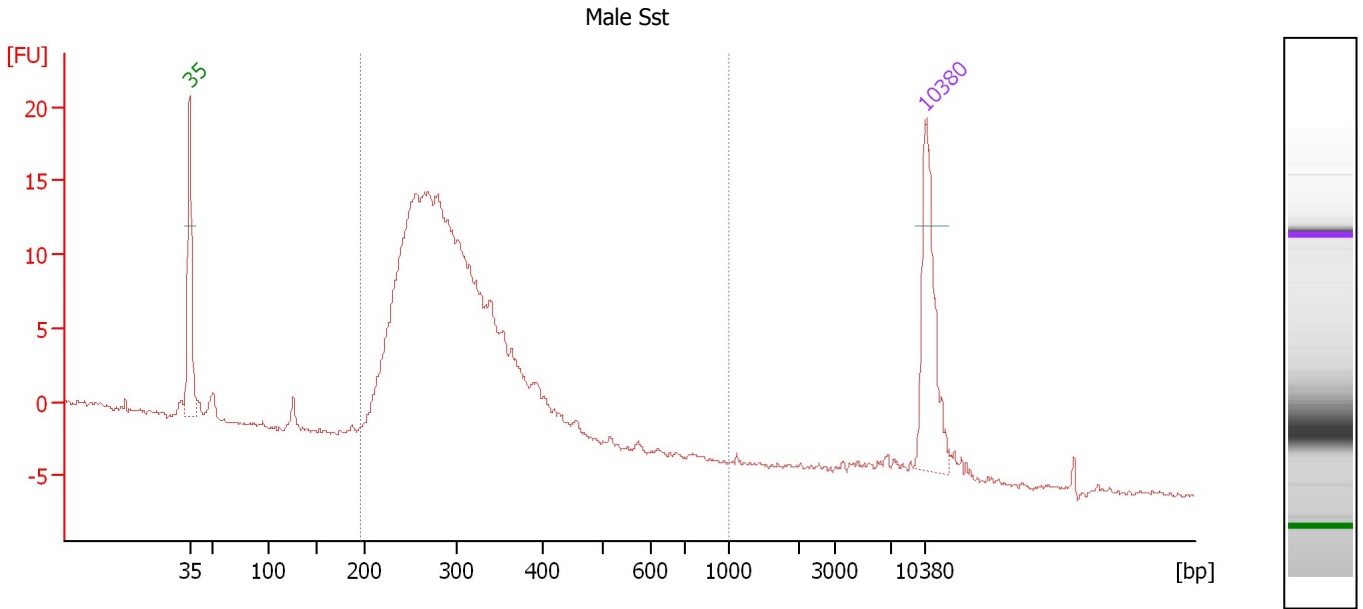
**Region table for sample 5 : Male**

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	350	1,120.0	11,352.7	2,431.82	87	26.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Male Sst**

Number of peaks found: 0                      Corr. Area 1: 243.8  
 Noise: 0.2

**Peak table for sample 6 : Male Sst**

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

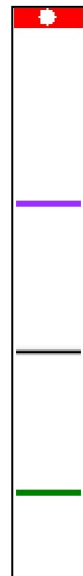
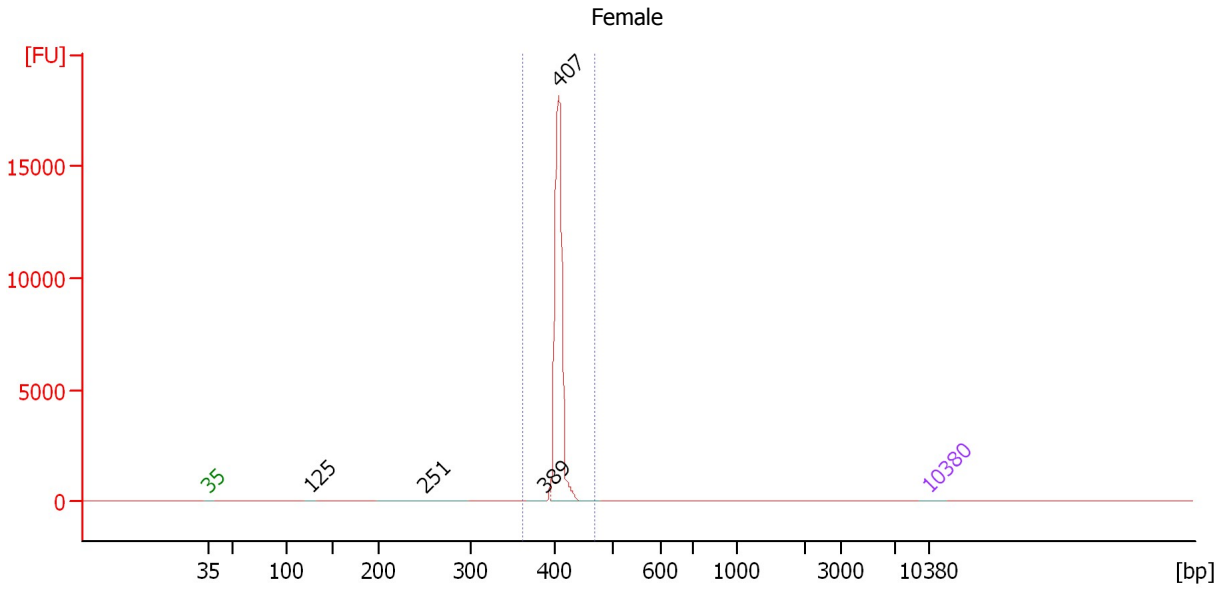
**Region table for sample 6 : Male Sst**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
196	1,000	299	243.8	5,287.8	1,004.71	96	18.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Female**

Number of peaks found: 4                      Corr. Area 1: 19,289.4  
 Noise: 0.1

**Peak table for sample 7 : Female**

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	125	82.65	998.1		52.84
3	251	237.67	1,436.2		64.06
4	389	47.76	186.2		75.63
5	407	46,666.70	173,781.6		76.95
6	10,380	75.00	10.9	Upper Marker	113.00

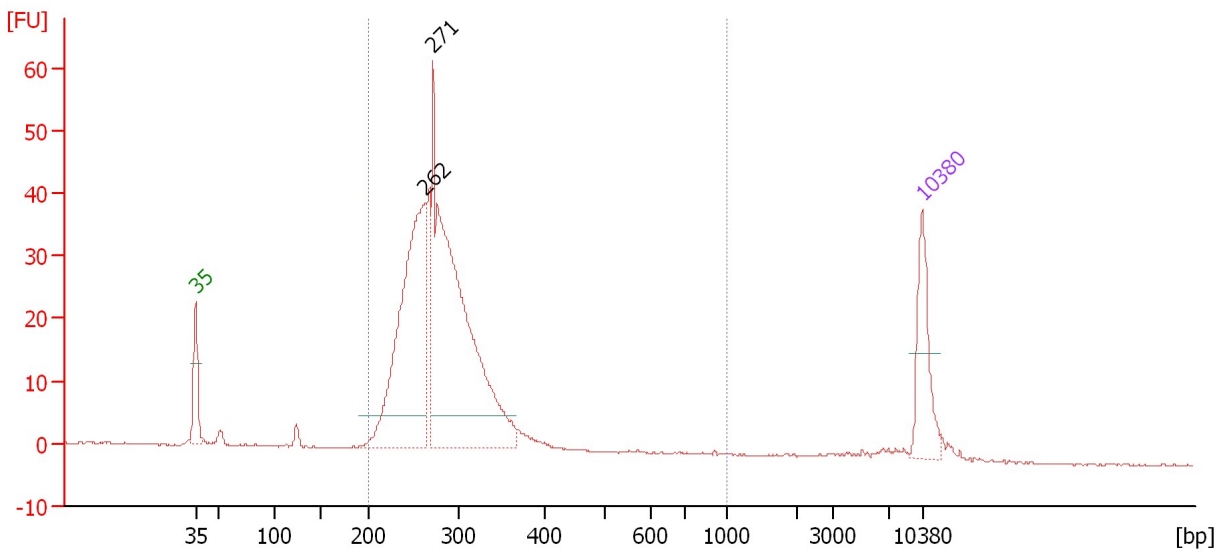
**Region table for sample 7 : Female**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
363	468	408	19,289.4	175,492.9	47,226.56	99	1.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
 Modified: 3/1/2017 3:32:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 :**

Number of peaks found: 2                      Corr. Area 1: 448.8  
 Noise: 0.1

**Peak table for sample 8 :**

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	262	458.98	2,650.5		65.08
3	271	693.77	3,877.4		65.85
4	10,380	75.00	10.9	Upper Marker	113.00

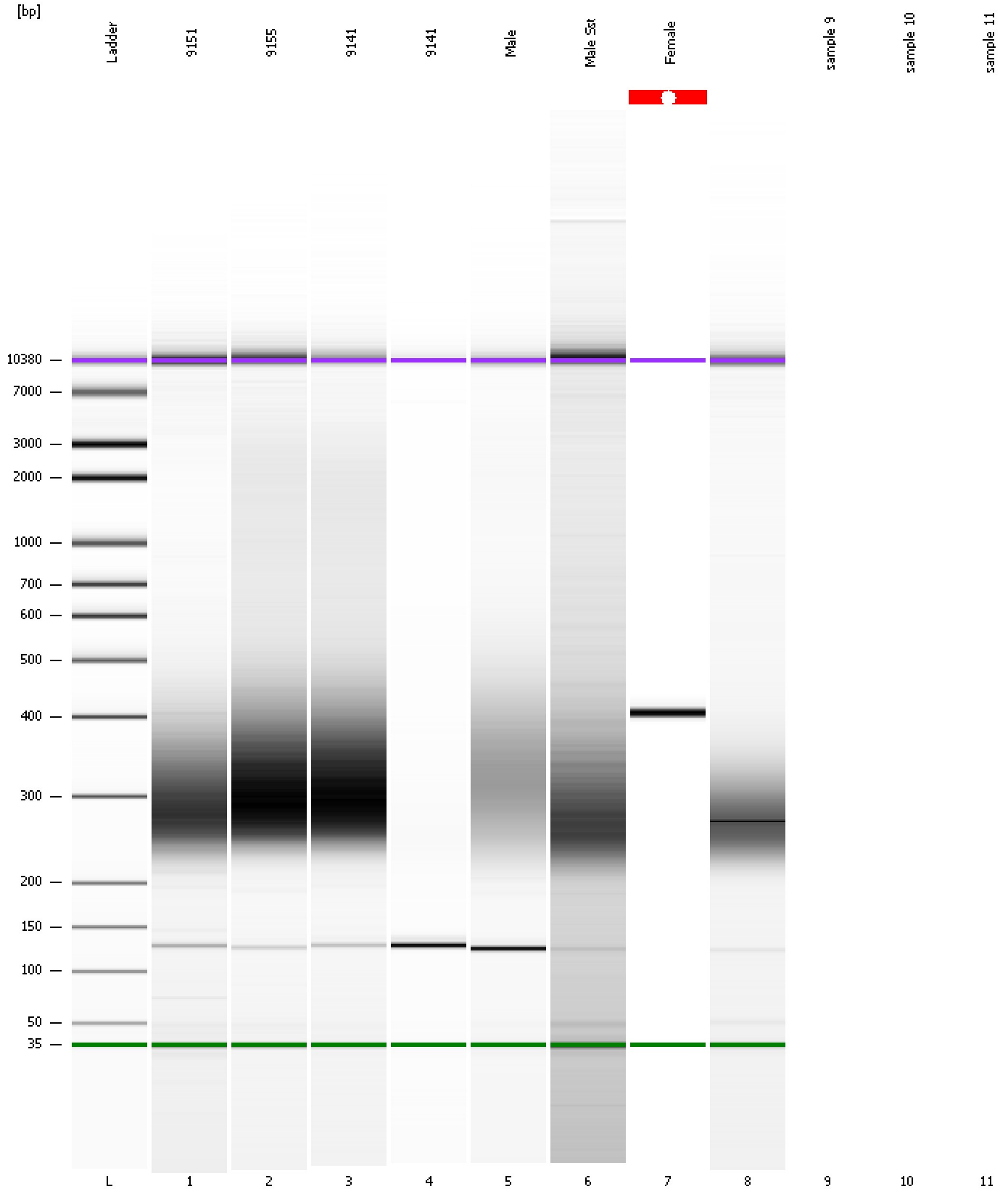
**Region table for sample 8 :**

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	285	448.8	6,877.6	1,256.55	94	20.8

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
Modified: 3/1/2017 3:32:31 PM

**Gel Image**



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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad

Created: 3/1/2017 2:55:39 PM  
Modified: 3/1/2017 3:32:31 PM

**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.

Assay Class: High Sensitivity DNA Assay Created: 3/1/2017 2:55:39 PM  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-01\2017-03-01\_001.xad Modified: 3/1/2017 3:32:31 PM

**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		3/1/2017 3:28:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 7	3/1/2017 3:24:19 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\2017-03-01\2017-03-01_001.xad)		Instrument	Run		3/1/2017 2:55:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/1/2017 2:55:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/1/2017 2:55:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/1/2017 2:55:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/1/2017 2:55:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/1/2017 2:55:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/1/2017 2:55:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1