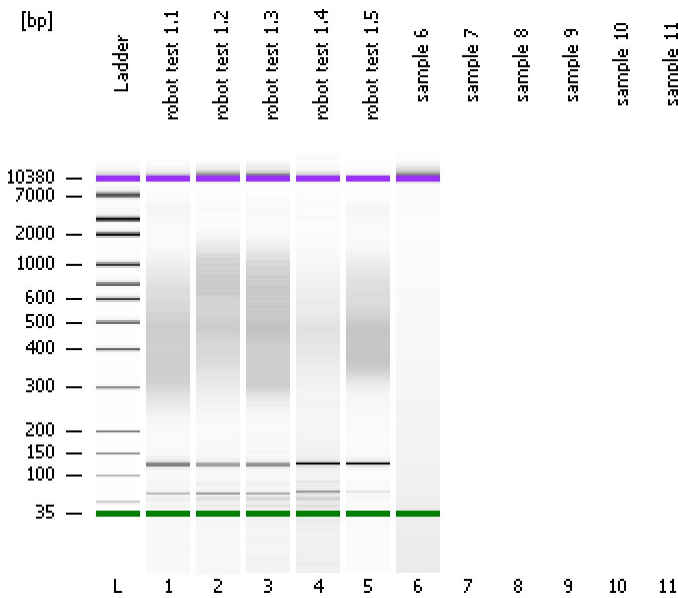


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
Modified: 5/8/2014 4:38:36 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

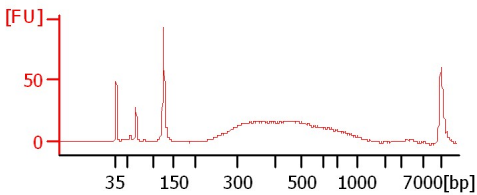
#### Assay Information:

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

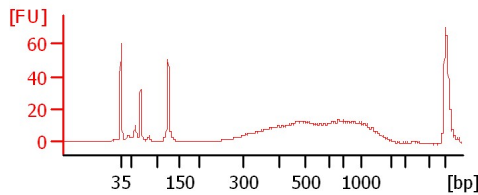
#### Chip Information:

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

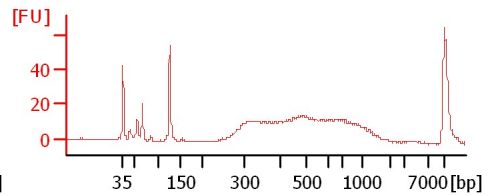
robot test 1.1



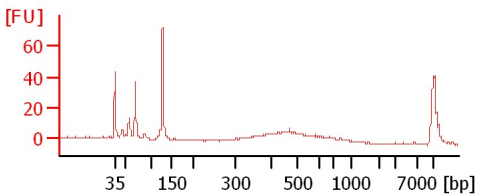
robot test 1.2



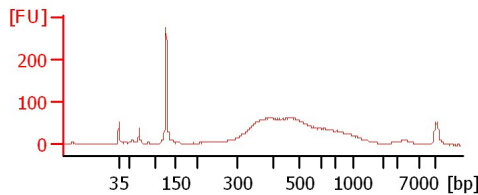
robot test 1.3



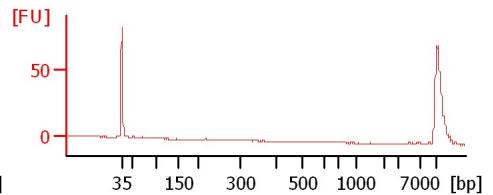
robot test 1.4



robot test 1.5



sample 6



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
 Modified: 5/8/2014 4:38:36 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
robot test 1.1		<input type="checkbox"/>	✓			
robot test 1.2		<input type="checkbox"/>	✓			
robot test 1.3		<input type="checkbox"/>	✓			
robot test 1.4		<input type="checkbox"/>	✓			
robot test 1.5		<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:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
Modified: 5/8/2014 4:38:36 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

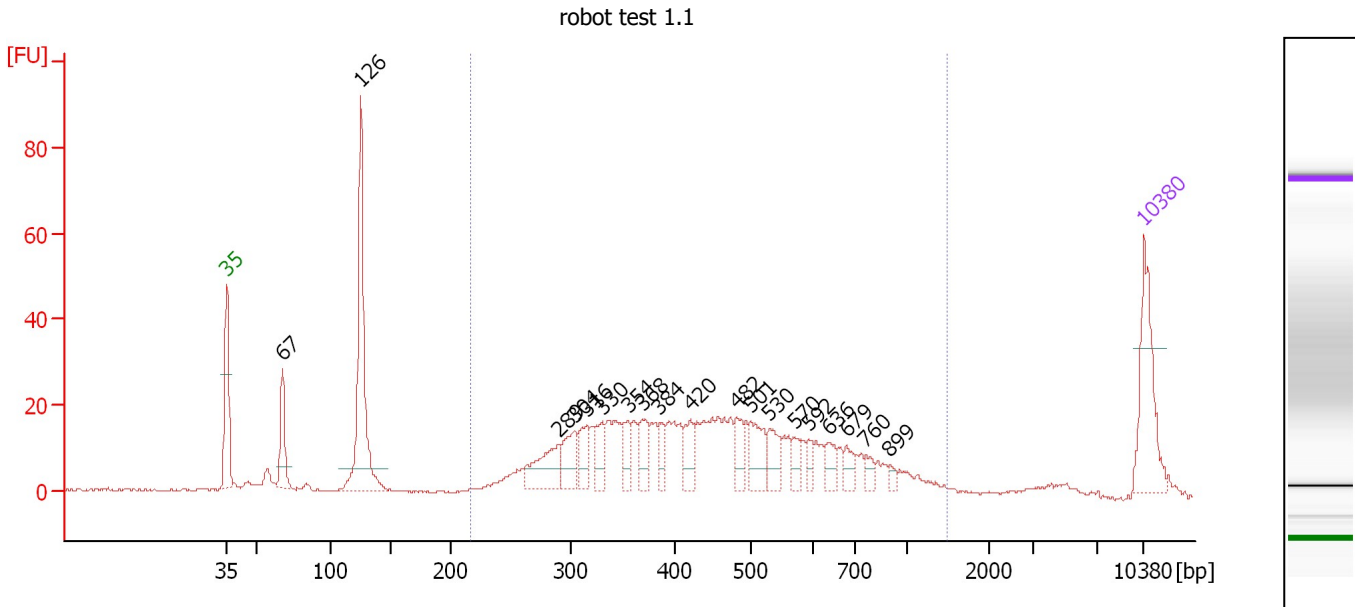
**Ladder**

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\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
 Modified: 5/8/2014 4:38:36 PM

**Electropherogram Summary**



**Overall Results for sample 1 : robot test 1.1**

Number of peaks found: 19      Corr. Area 1: 562.4  
 Noise: 0.2

**Peak table for sample 1 : robot test 1.1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	61.78	1,390.0	
3	126	259.19	3,125.9	
4	289	68.85	360.5	
5	304	44.69	223.0	
6	316	38.14	183.0	
7	330	31.92	146.5	
8	354	22.55	96.4	
9	368	34.18	140.7	
10	384	20.61	81.2	
11	420	30.12	108.8	
12	482	28.72	90.3	
13	501	46.23	139.9	
14	530	31.68	90.6	
15	570	15.85	42.2	
16	592	12.90	33.1	
17	636	20.36	48.5	
18	679	15.57	34.7	
19	760	12.23	24.4	
20	899	6.56	11.1	
21	10,380	75.00	10.9	Upper Marker

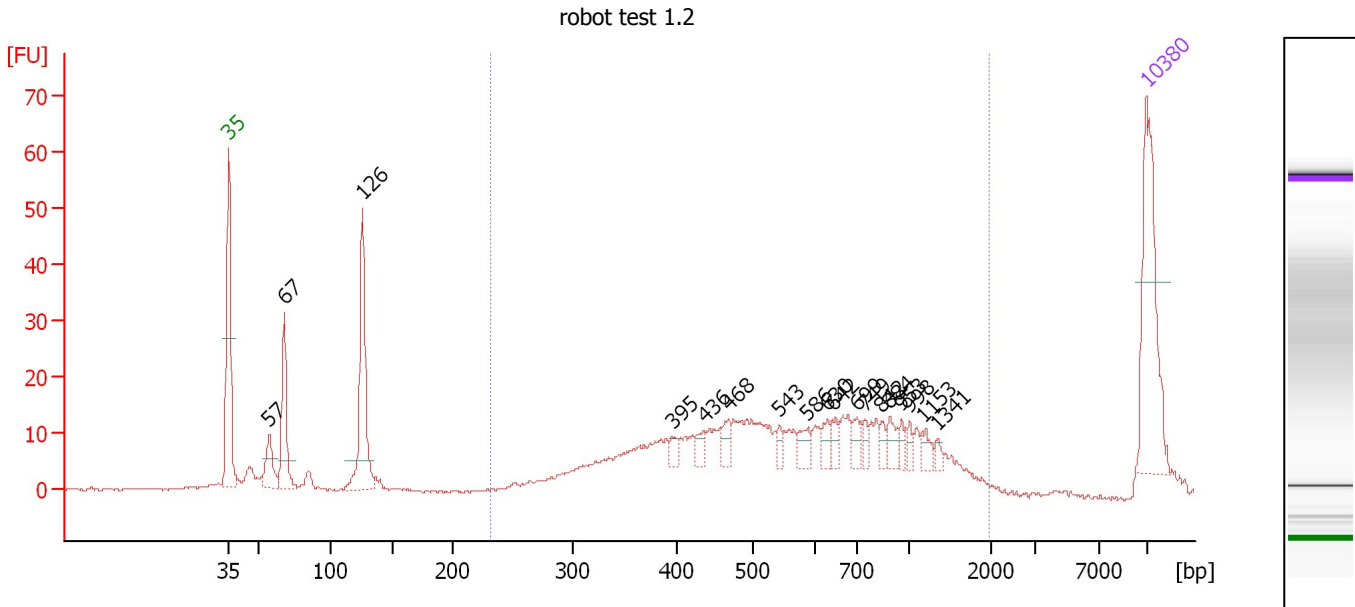
**Region table for sample 1 : robot test 1.1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
216	1,471	478	3,796.0	1,009.33	562.4	74	39.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
 Modified: 5/8/2014 4:38:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : robot test 1.2**

Number of peaks found: 18                      Corr. Area 1: 376.5  
 Noise: 0.2

**Peak table for sample 2 : robot test 1.2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	57	31.66	841.2	
3	67	62.96	1,416.9	
4	126	112.01	1,351.6	
5	395	6.67	25.6	
6	436	9.18	31.9	
7	468	11.32	36.7	
8	543	6.42	17.9	
9	586	11.69	30.2	
10	630	8.96	21.5	
11	642	8.91	21.0	
12	699	9.77	21.2	
13	749	7.03	14.2	
14	842	6.39	11.5	
15	884	10.57	18.1	
16	953	6.19	9.8	
17	998	5.29	8.0	
18	1,153	7.86	10.3	
19	1,341	3.98	4.5	
20	10,380	75.00	10.9	Upper Marker

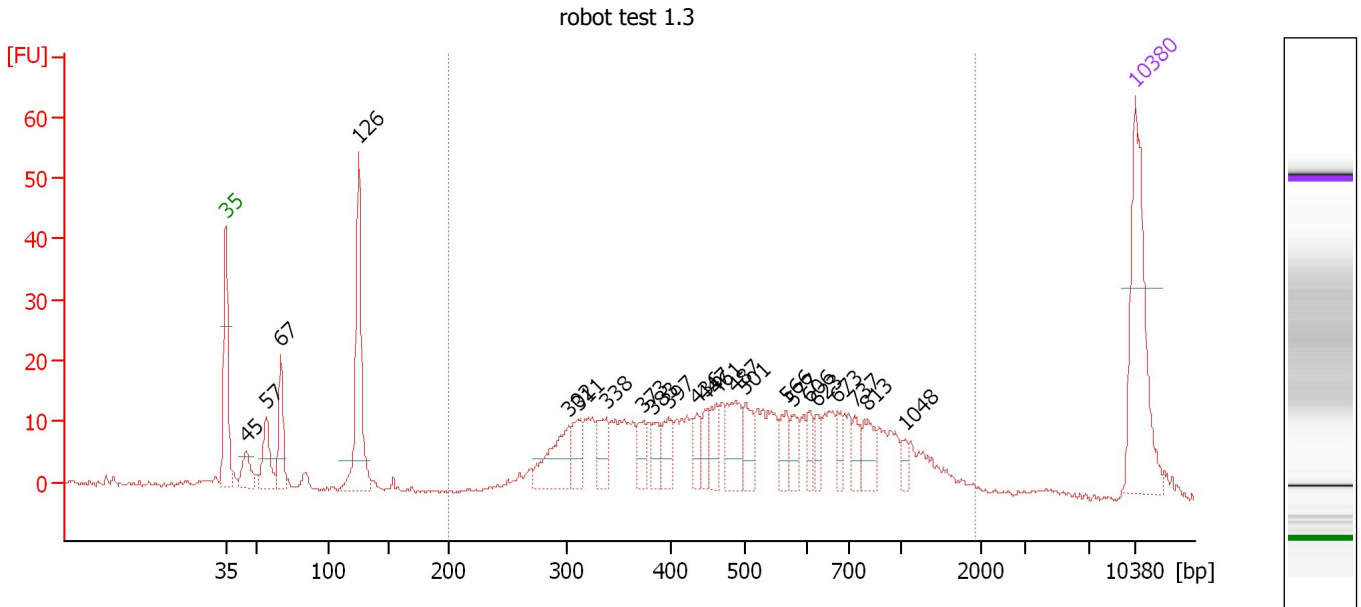
**Region table for sample 2 : robot test 1.2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
232	1,967	646	1,631.6	540.63	376.5	75	49.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
 Modified: 5/8/2014 4:38:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : robot test 1.3**

Number of peaks found: 23                      Corr. Area 1: 465.7  
 Noise: 0.3

**Peak table for sample 3 : robot test 1.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	23.59	792.2	
3	57	36.76	972.3	
4	67	42.75	962.3	
5	126	116.16	1,400.0	
6	302	46.93	235.5	
7	311	21.59	105.1	
8	338	25.78	115.5	
9	373	17.47	70.9	
10	383	15.18	60.0	
11	397	19.71	75.2	
12	436	13.04	45.3	
13	447	12.70	43.1	
14	461	18.47	60.7	
15	487	33.67	104.7	
16	501	20.68	62.5	
17	566	16.17	43.2	
18	577	12.72	33.4	
19	606	11.02	27.6	
20	623	10.11	24.6	
21	673	11.25	25.3	
22	737	12.15	25.0	
23	813	18.97	35.3	
24	1,048	5.77	8.3	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
Modified: 5/8/2014 4:38:36 PM

**Electropherogram Summary Continued ...**

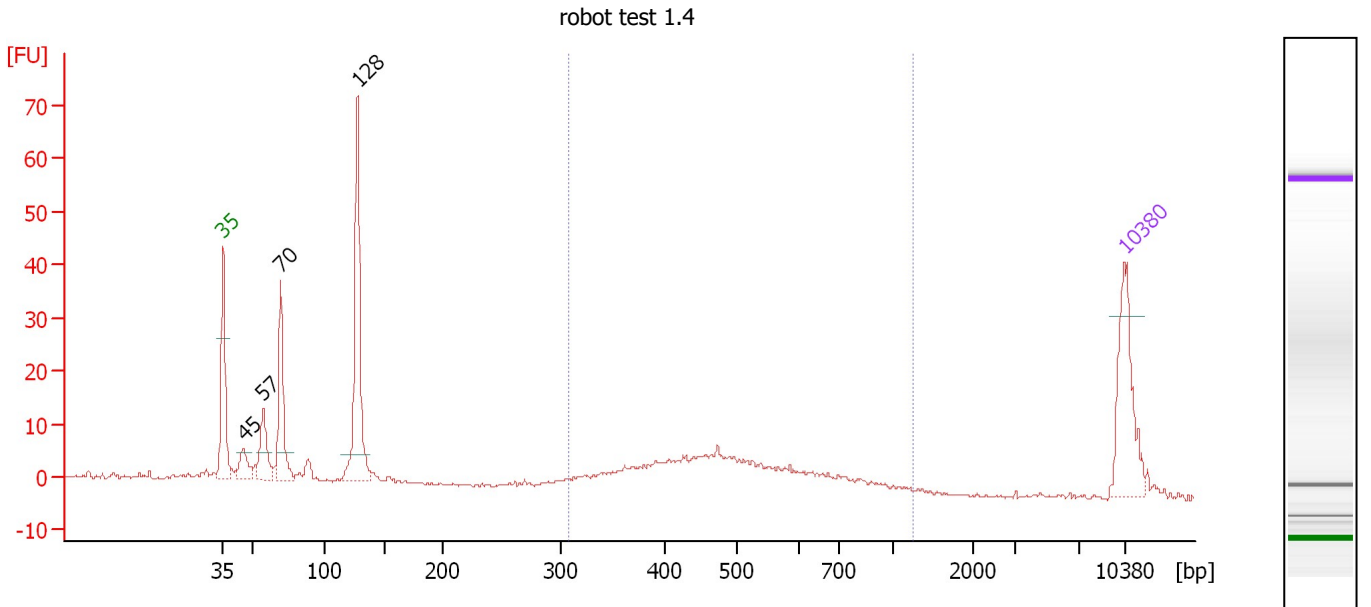
... Region table for sample 3 : robot test 1.3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,912	571	2,176.2	648.81	 465.7	79	49.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
 Modified: 5/8/2014 4:38:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : robot test 1.4**

Number of peaks found: 4                      Corr. Area 1: 110.1  
 Noise: 0.2

**Peak table for sample 4 : robot test 1.4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	34.28	1,149.3	
3	57	59.90	1,587.9	
4	70	110.63	2,410.9	
5	128	210.90	2,495.8	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : robot test 1.4**

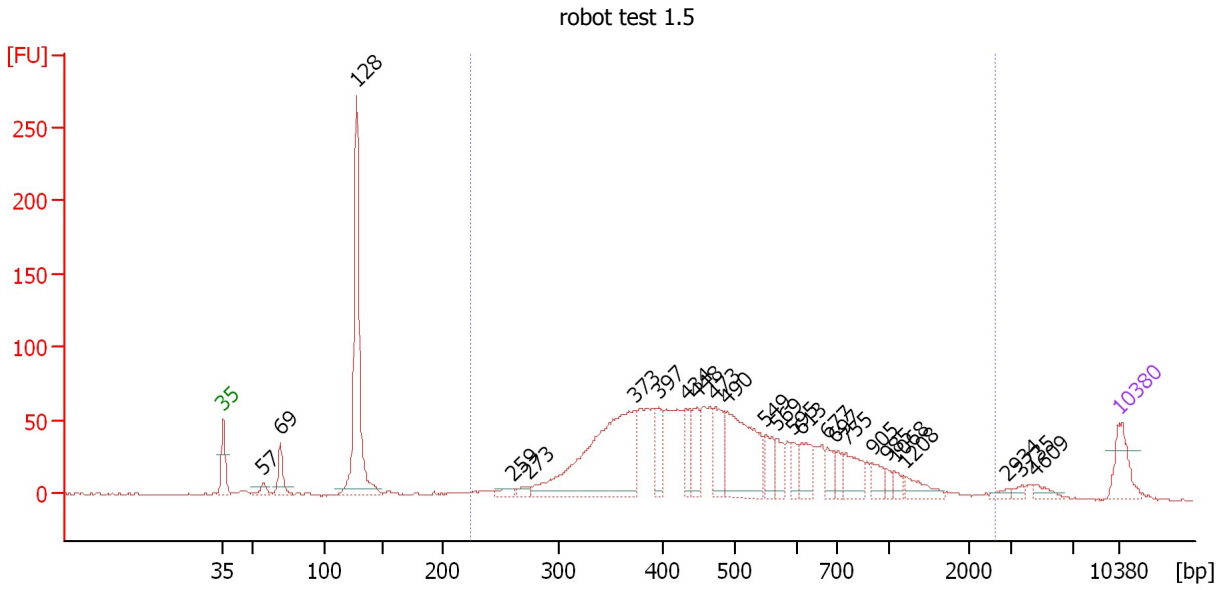
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
307	1,258	500	739.9	225.36	110.1	39	27.2



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
 Modified: 5/8/2014 4:38:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : robot test 1.5**

Number of peaks found: 25                      Corr. Area 1: 1,611.3  
 Noise: 0.3


**Peak table for sample 5 : robot test 1.5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	57	31.84	841.9	
3	69	88.35	1,929.8	
4	128	683.34	8,105.3	
5	259	26.01	152.0	
6	273	22.43	124.5	
7	373	663.16	2,695.9	
8	397	84.22	321.3	
9	434	75.08	262.1	
10	448	92.07	311.4	
11	473	128.90	413.0	
12	490	328.63	1,016.8	
13	549	73.80	203.6	
14	569	57.18	152.3	
15	595	38.33	97.7	
16	613	80.36	198.6	
17	677	46.66	104.4	
18	697	34.61	75.2	
19	755	85.14	171.0	
20	905	44.39	74.3	
21	985	18.20	28.0	
22	1,068	21.07	29.9	
23	1,208	45.72	57.4	
24	2,934	11.64	6.0	
25	3,735	11.65	4.7	
26	4,609	19.93	6.6	


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
Modified: 5/8/2014 4:38:36 PM

**Electropherogram Summary Continued ...****... Peak table for sample 5 : robot test 1.5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	 10,380	75.00	10.9	Upper Marker

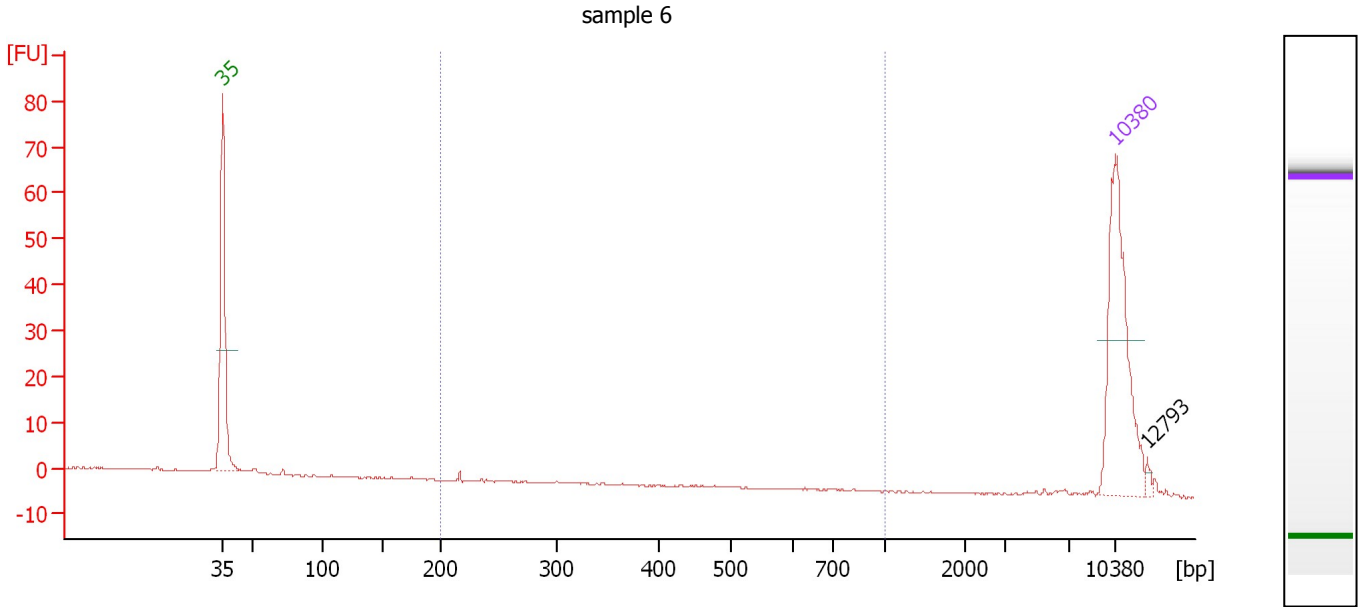
**Region table for sample 5 : robot test 1.5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
224	2,627	538	9,507.4	2,784.40	 1,611.3	80	51.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
 Modified: 5/8/2014 4:38:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6**

Number of peaks found: 1                      Corr. Area 1: 0.3  
 Noise: 0.1

**Peak table for sample 6 : sample 6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,793	0.00	0.0	

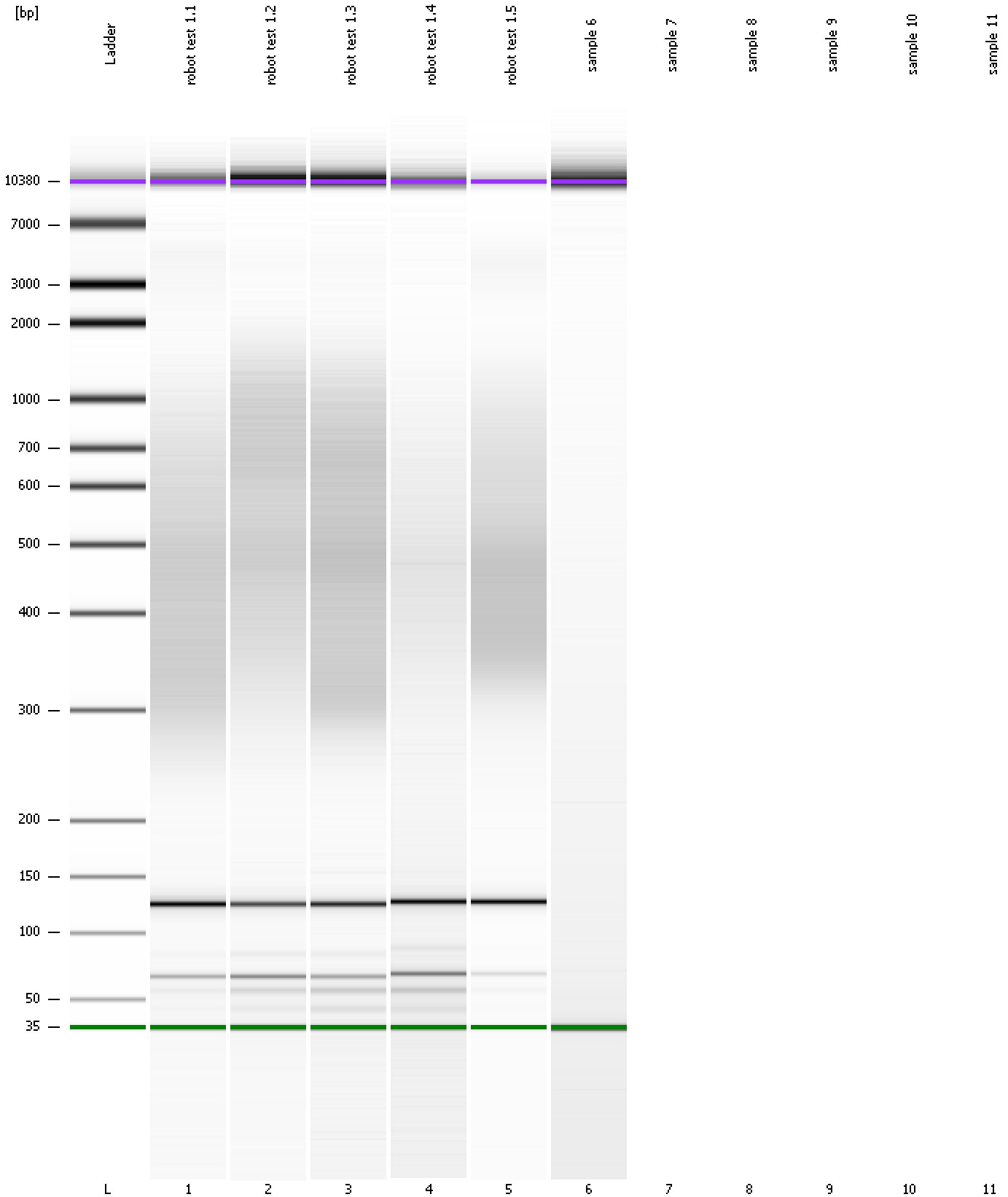
**Region table for sample 6 : sample 6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	217	2.8	0.40	0.3	3	0.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
Modified: 5/8/2014 4:38:36 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-08\2014-05-08\_004.xad

Created: 5/8/2014 4:10:01 PM  
Modified: 5/8/2014 4:38:36 PM

**Invalid Samples**

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.