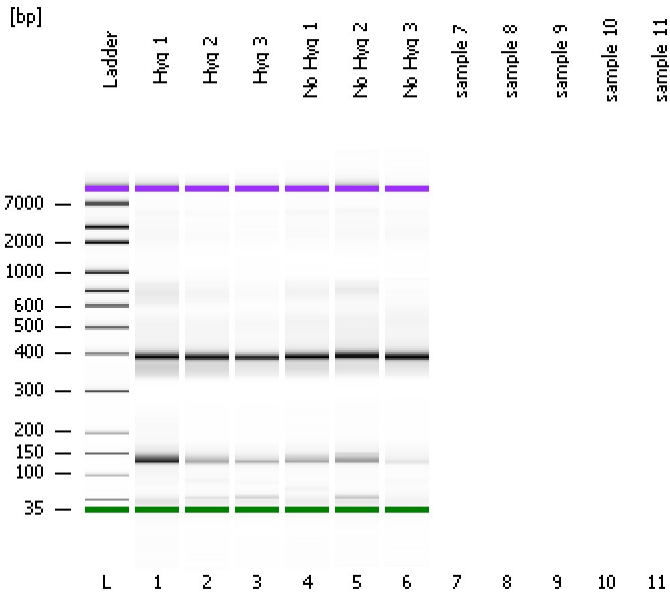


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
 Modified: 10/30/2013 1:06:26 PM

**Electrophoresis File Run Summary**



Instrument Information:

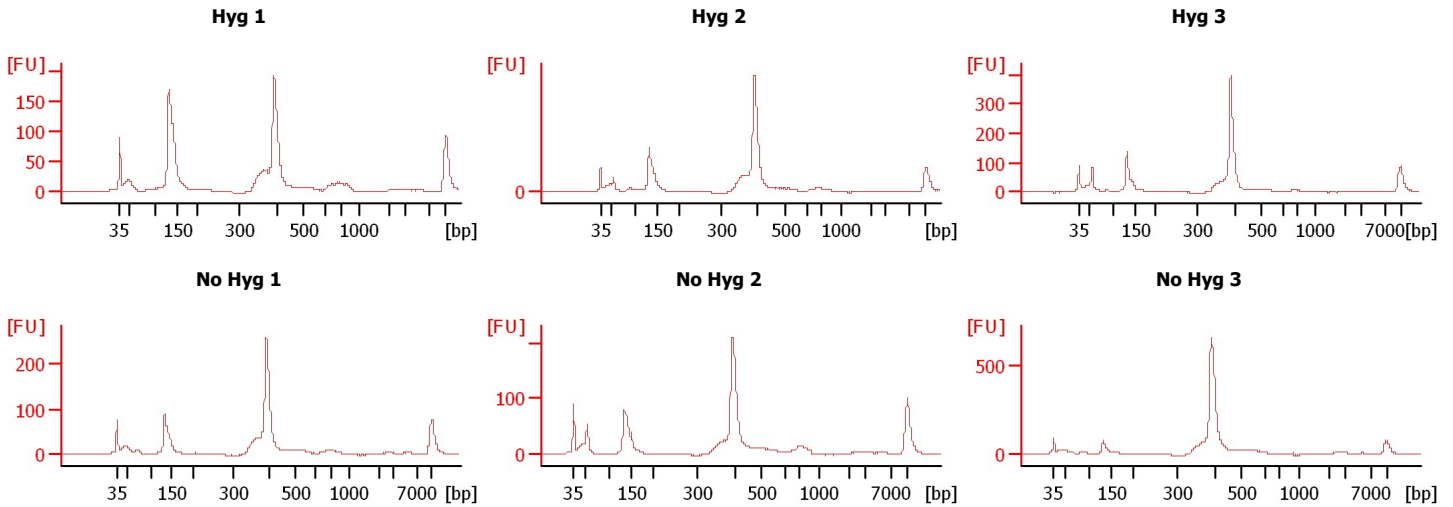
Instrument Name: DE13701086      Firmware: C.01.069  
 Serial#: DE13701086      Type: G2938B

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:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
 Modified: 10/30/2013 1:06:26 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Hyg 1		<input type="checkbox"/>	✓			
Hyg 2		<input type="checkbox"/>	✓			
Hyg 3		<input type="checkbox"/>	✓			
No Hyg 1		<input type="checkbox"/>	✓			
No Hyg 2		<input type="checkbox"/>	✓			
No Hyg 3		<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\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
Modified: 10/30/2013 1:06:26 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

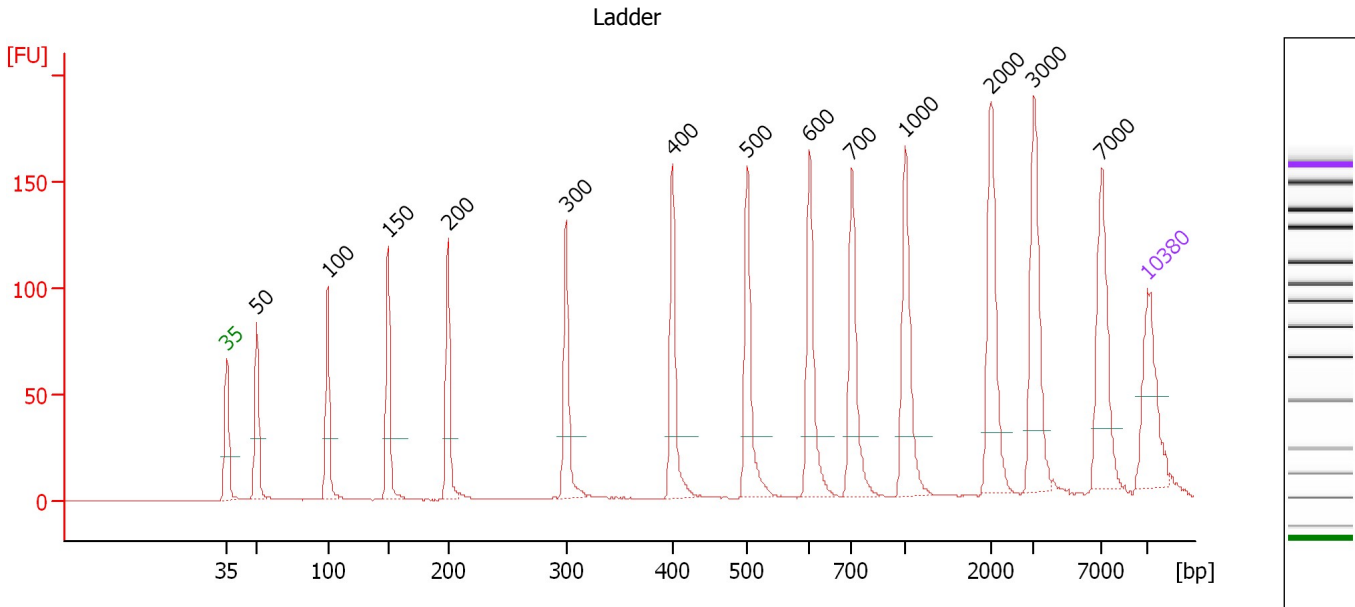
**Ladder**

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:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

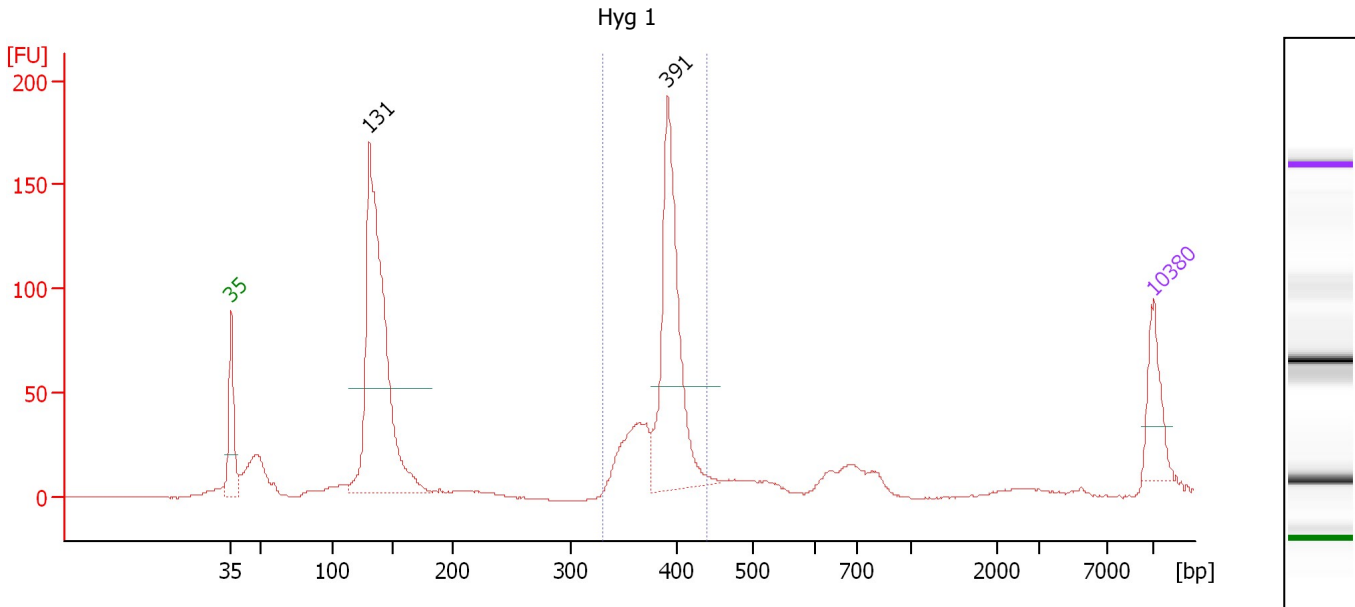
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
 Modified: 10/30/2013 1:06:26 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : Hyg 1**

Height Threshold [FU] : 50

**Overall Results for sample 1 : Hyg 1**

Number of peaks found: 2                      Corr. Area 1: 500.4  
 Noise: 0.2

**Peak table for sample 1 : Hyg 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	131	941.99	10,913.9	
3	391	466.47	1,808.8	
4	10,380	75.00	10.9	Upper Marker

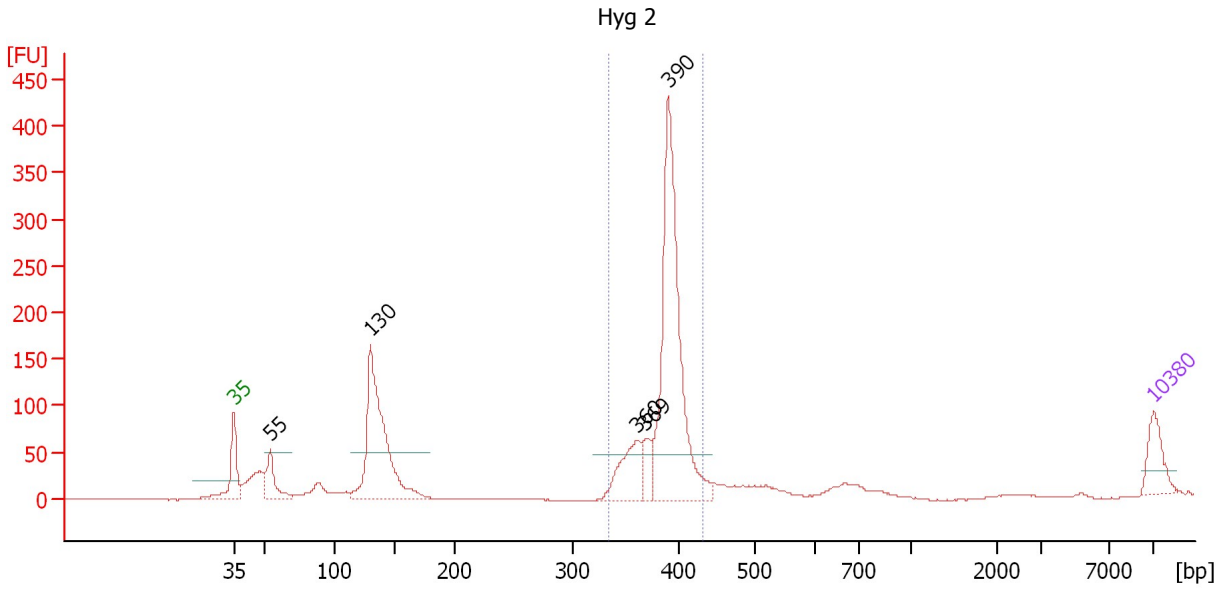
**Region table for sample 1 : Hyg 1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	438	387	2,412.8	615.43	500.4	40	4.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : Hyg 2**

Height Threshold [FU] : 50

**Overall Results for sample 2 : Hyg 2**

Number of peaks found: 5                      Corr. Area 1: 1,040.9  
 Noise: 0.4

**Peak table for sample 2 : Hyg 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	136.35	3,788.8	
3	130	708.87	8,280.3	
4	360	188.38	793.9	
5	369	71.56	294.2	
6	390	906.24	3,519.1	
7	10,380	75.00	10.9	Upper Marker

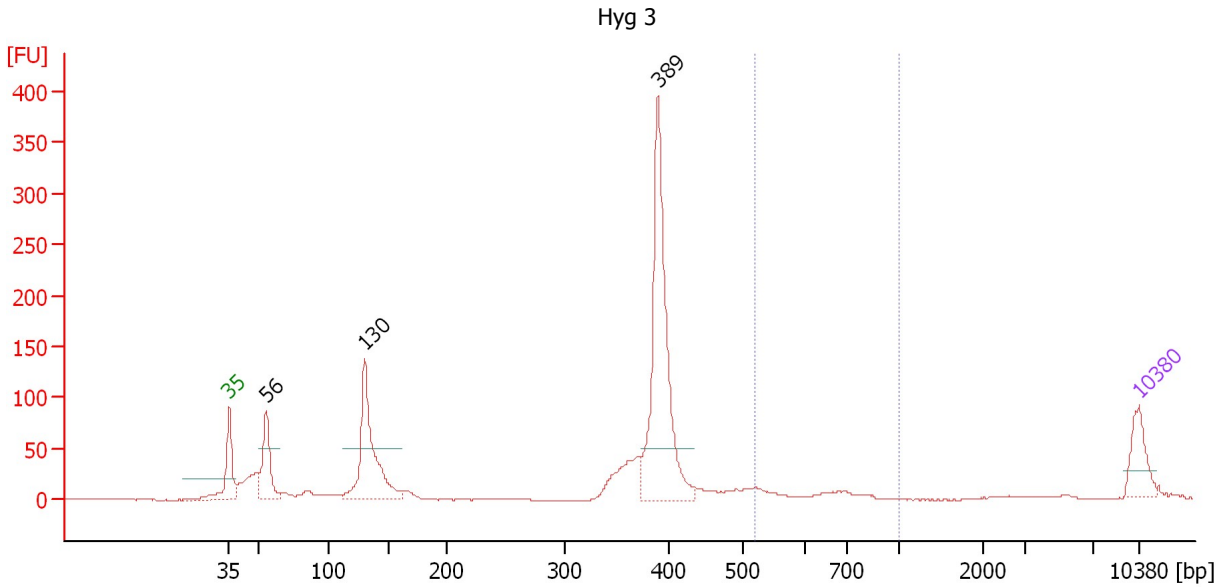
**Region table for sample 2 : Hyg 2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	432	387	4,207.3	1,073.35	1,040.9	56	4.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

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 Modified: 10/30/2013 1:06:26 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : Hyg 3**

Height Threshold [FU] : 50

**Overall Results for sample 3 : Hyg 3**

Number of peaks found: 3                      Corr. Area 1: 54.4  
 Noise: 0.3

**Peak table for sample 3 : Hyg 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	211.44	5,763.3	
3	130	450.10	5,240.0	
4	389	683.11	2,658.0	
5	10,380	75.00	10.9	Upper Marker

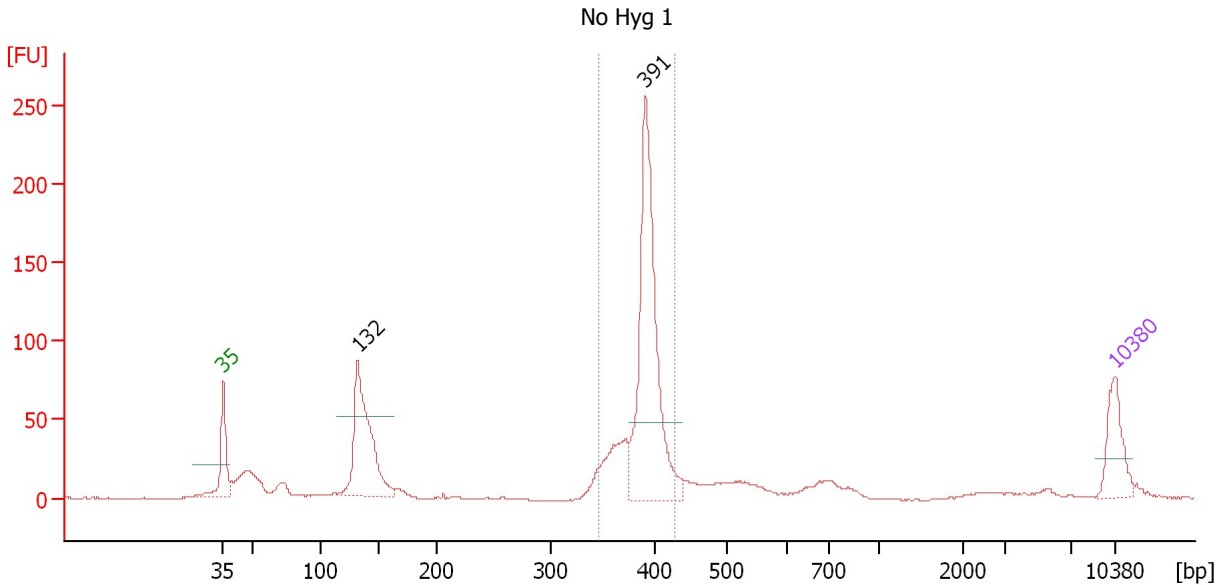
**Region table for sample 3 : Hyg 3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
518	1,000	633	127.6	52.06	54.4	4	14.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : No Hyg 1**

Height Threshold [FU] : 50

**Overall Results for sample 4 : No Hyg 1**

Number of peaks found: 2                      Corr. Area 1: 597.8  
 Noise: 0.3

**Peak table for sample 4 : No Hyg 1**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	375.32	4,323.0	
3	391	569.86	2,205.5	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : No Hyg 1**

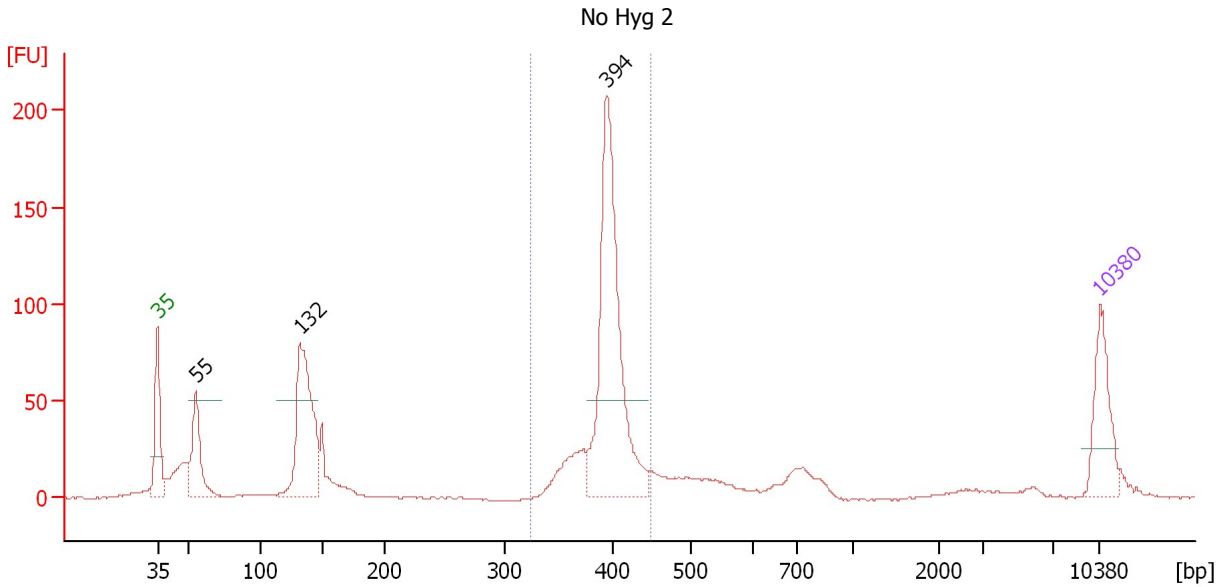
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
346	428	389	2,549.3	654.70	597.8	51	4.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : No Hyg 2**

Height Threshold [FU] : 50

**Overall Results for sample 5 : No Hyg 2**

Number of peaks found: 3                      Corr. Area 1: 536.8  
 Noise: 0.3

**Peak table for sample 5 : No Hyg 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	119.36	3,283.6	
3	132	272.83	3,133.3	
4	394	419.32	1,613.8	
5	10,380	75.00	10.9	Upper Marker

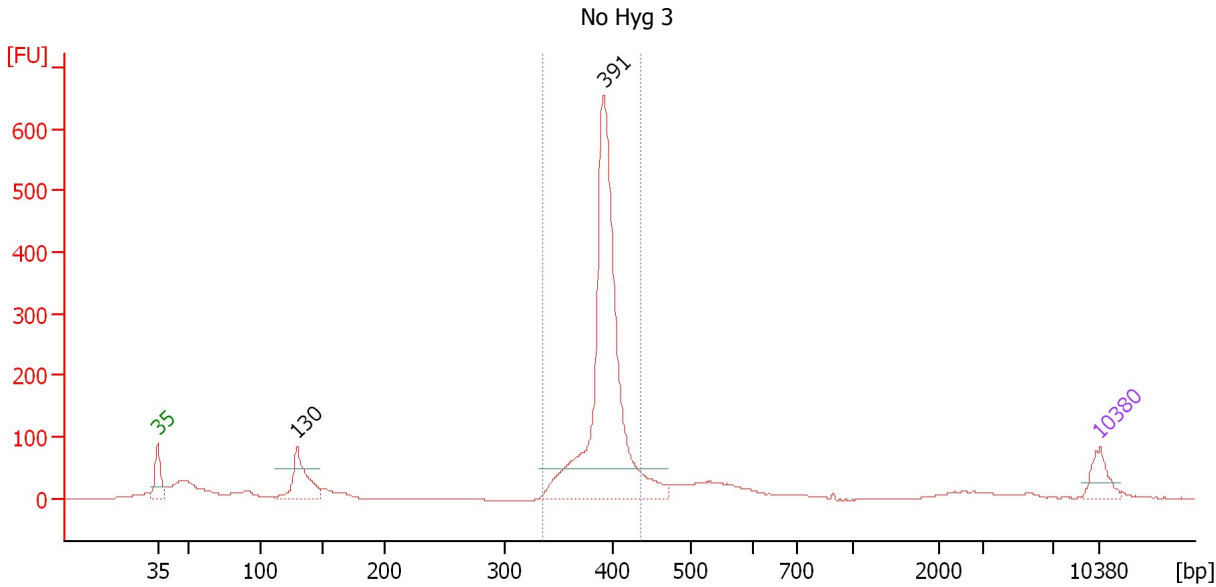
**Region table for sample 5 : No Hyg 2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
324	449	395	1,885.6	490.15	536.8	47	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
 Modified: 10/30/2013 1:06:26 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : No Hyg 3**

Height Threshold [FU] : 50

**Overall Results for sample 6 : No Hyg 3**

Number of peaks found: 2                      Corr. Area 1: 1,614.6  
 Noise: 0.3

**Peak table for sample 6 : No Hyg 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	130	285.86	3,344.2	
3	391	1,730.21	6,703.8	
4	10,380	75.00	10.9	Upper Marker

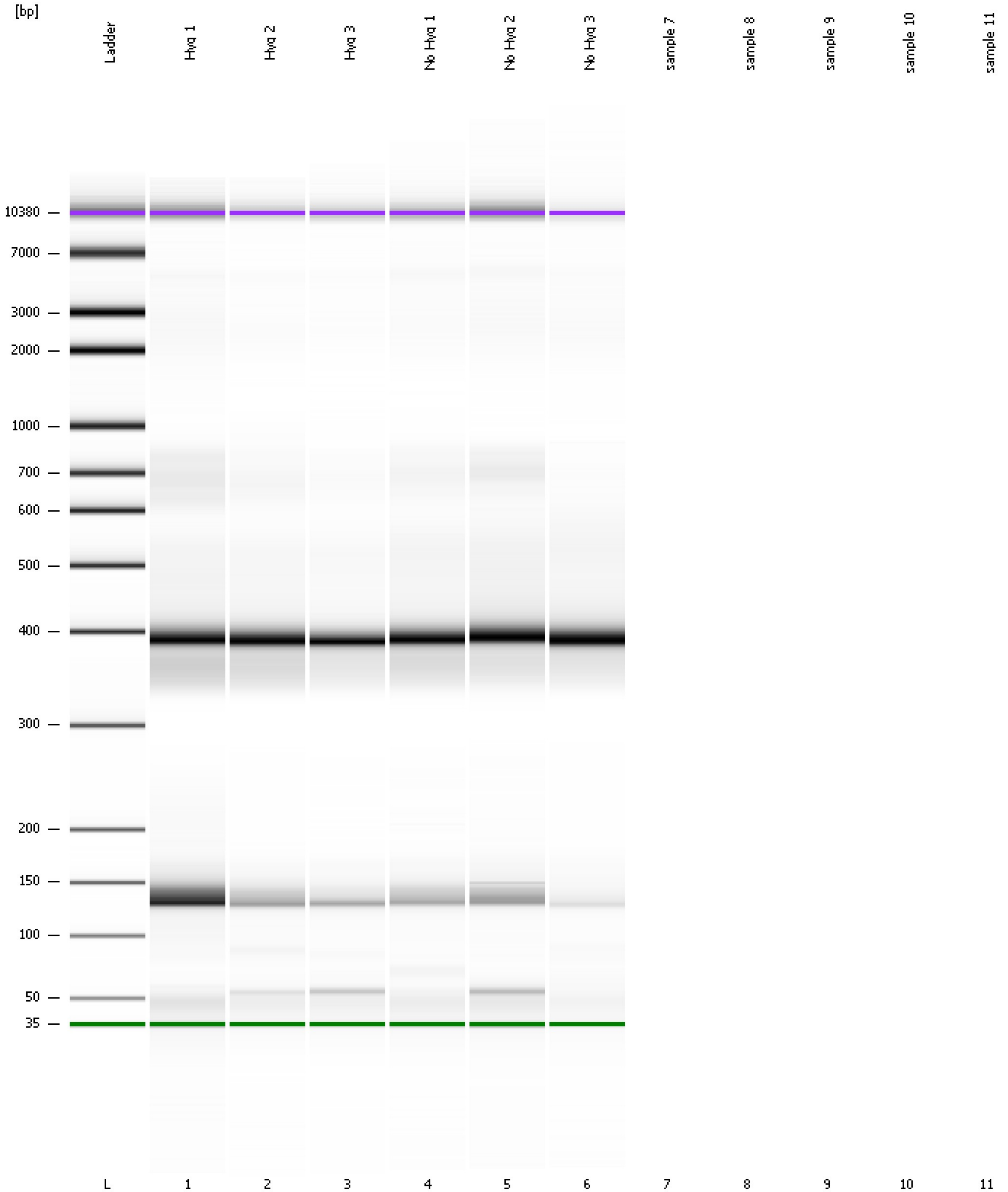
**Region table for sample 6 : No Hyg 3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	435	391	6,348.9	1,637.00	1,614.6	65	4.1	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
Modified: 10/30/2013 1:06:26 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_006.xad

Created: 10/30/2013 12:39:06 PM  
Modified: 10/30/2013 1:06:26 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.