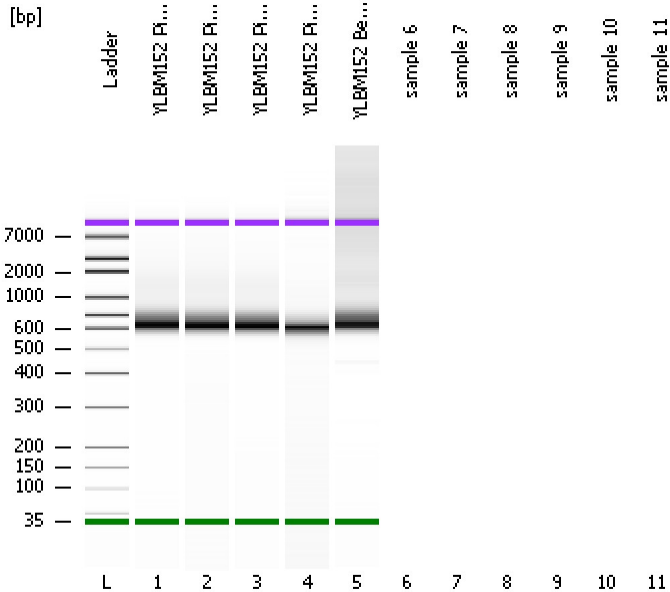


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

Created: 10/25/2018 3:54:48 PM  
Modified: 10/25/2018 4:18:58 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

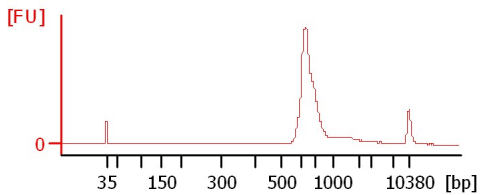
Assay Information:

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

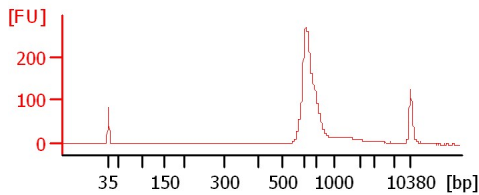
Chip Information:

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

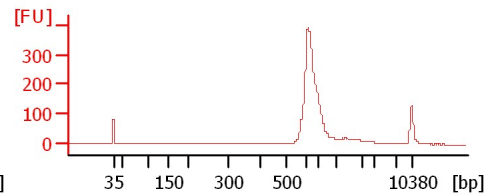
**YLBM152 Pippin 1**



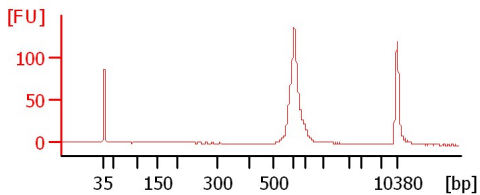
**YLBM152 Pippin 2**



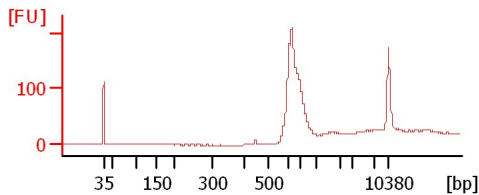
**YLBM152 Pippin 3**



**YLBM152 Pippin 4**



**YLBM152 Bead Clean**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

Created: 10/25/2018 3:54:48 PM  
 Modified: 10/25/2018 4:18:58 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
YLBM152 Pippin 1		<input type="checkbox"/>	✓			
YLBM152 Pippin 2		<input type="checkbox"/>	✓			
YLBM152 Pippin 3		<input type="checkbox"/>	✓			
YLBM152 Pippin 4		<input type="checkbox"/>	✓			
YLBM152 Bead Clean		<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\2018-10-25\2018-10-25\_004.xad

Created: 10/25/2018 3:54:48 PM  
Modified: 10/25/2018 4:18:58 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

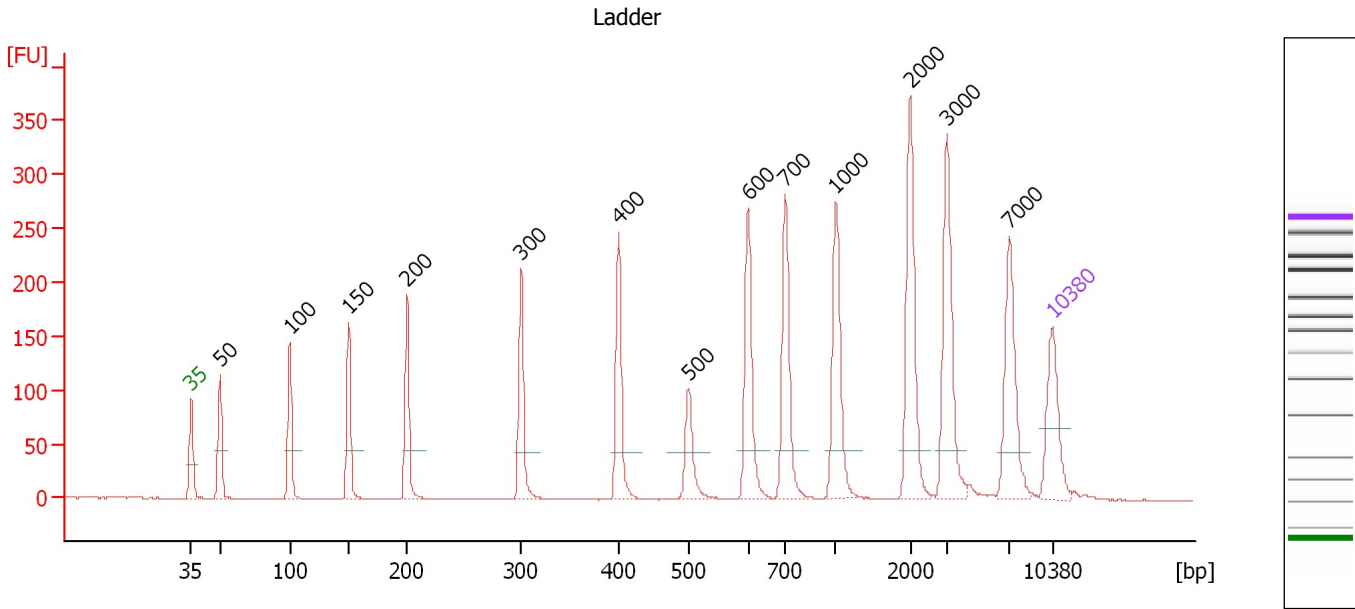
**Ladder**

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\2018-10-25\2018-10-25\_004.xad

Created: 10/25/2018 3:54:48 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

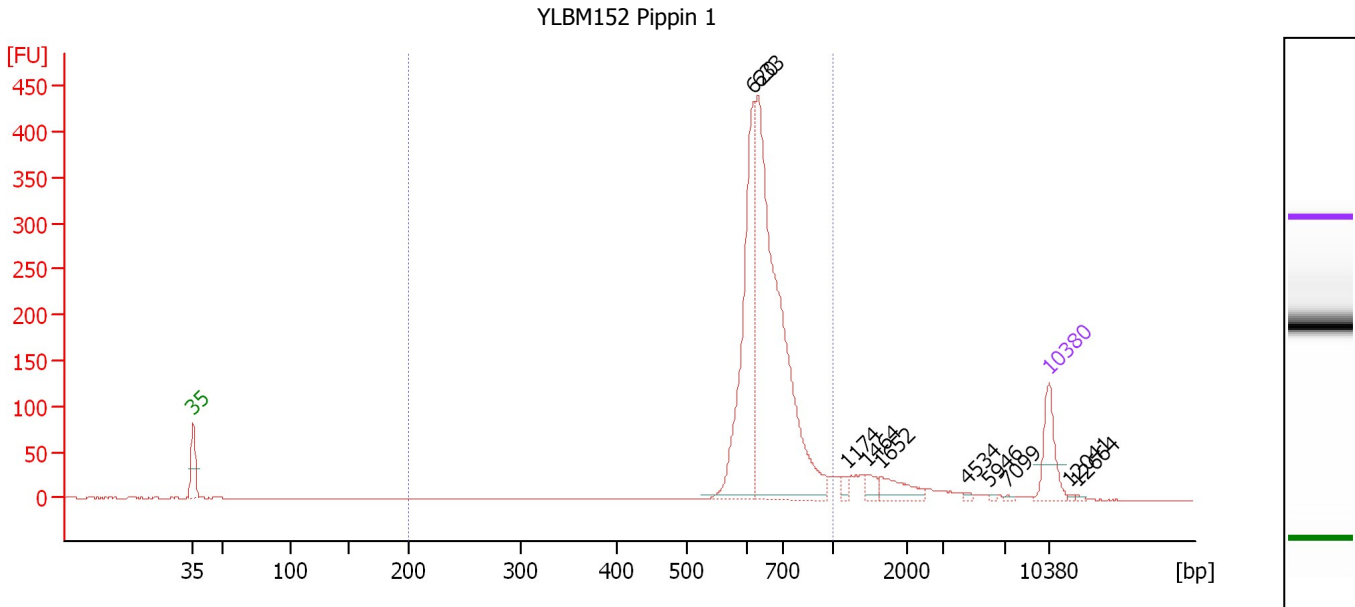
**Peak table for Ladder**

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	45.34
3	100	150.00	2,272.7	Ladder Peak	51.01
4	150	150.00	1,515.2	Ladder Peak	55.78
5	200	150.00	1,136.4	Ladder Peak	60.54
6	300	150.00	757.6	Ladder Peak	69.81
7	400	150.00	568.2	Ladder Peak	77.70
8	500	150.00	454.5	Ladder Peak	83.41
9	600	150.00	378.8	Ladder Peak	88.22
10	700	150.00	324.7	Ladder Peak	91.25
11	1,000	150.00	227.3	Ladder Peak	95.37
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.38
14	7,000	150.00	32.5	Ladder Peak	109.45
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : YLBM152 Pippin 1**

Number of peaks found: 10                      Corr. Area 1: 1,765.5  
 Noise: 0.4

**Peak table for sample 1 : YLBM152 Pippin 1**

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	620	453.12	1,107.7		88.82
3	633	919.52	2,201.8		89.22
4	1,174	10.82	14.0		96.42
5	1,464	20.43	21.1		98.16
6	1,652	48.90	44.8		99.30
7	4,534	3.76	1.3		106.32
8	5,946	2.49	0.6		108.11
9	7,099	2.82	0.6		109.55
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,041	0.00	0.0		114.75
12	12,664	0.00	0.0		115.40

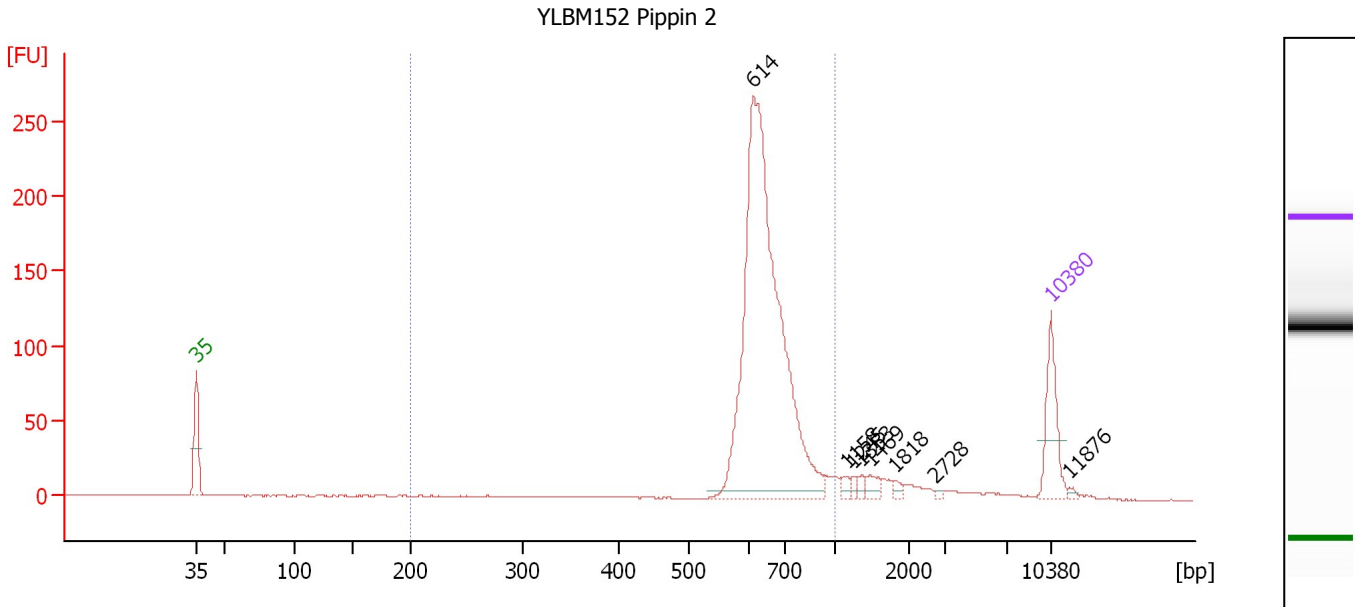
**Region table for sample 1 : YLBM152 Pippin 1**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	664	1,384.30	1,765.4	3,210.2	87	12.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : YLBM152 Pippin 2**

Number of peaks found: 8                      Corr. Area 1: 1,051.4  
 Noise: 0.3

**Peak table for sample 2 : YLBM152 Pippin 2**

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	614	924.65	2,283.5		88.63
3	1,158	9.77	12.8		96.32
4	1,245	7.68	9.4		96.84
5	1,353	7.68	8.6		97.50
6	1,469	14.76	15.2		98.20
7	1,818	7.52	6.3		100.29
8	2,728	2.62	1.5		103.57
9	10,380	75.00	10.9	Upper Marker	113.00
10	11,876	0.00	0.0		114.57

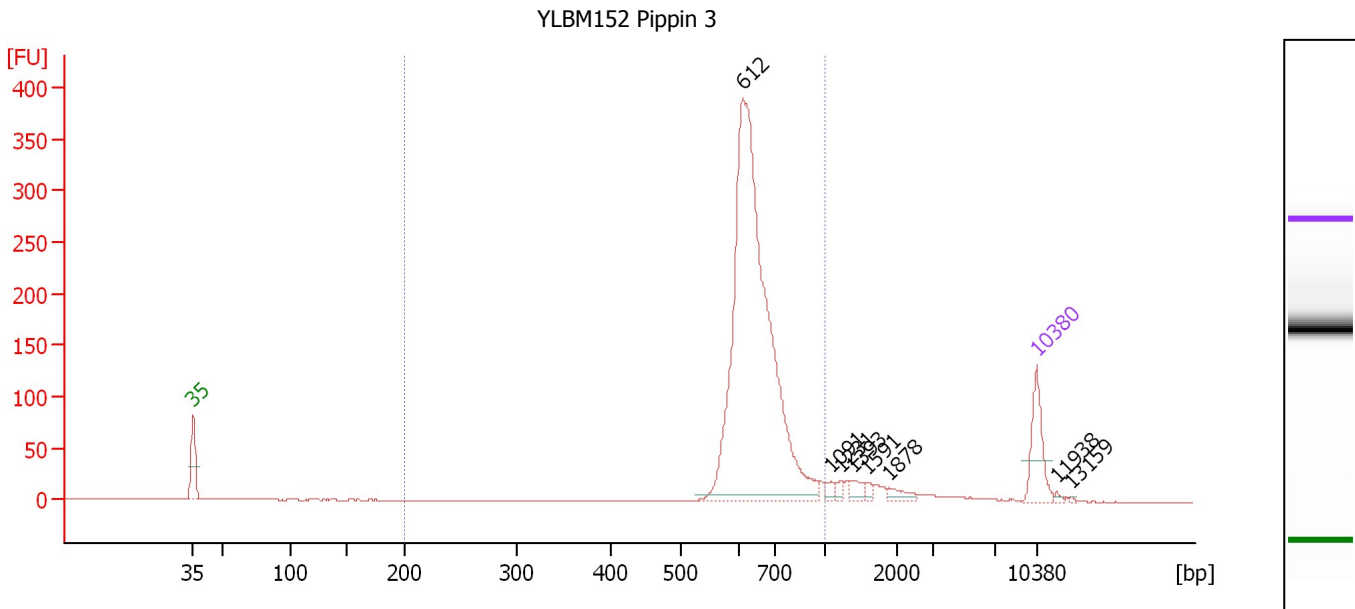
**Region table for sample 2 : YLBM152 Pippin 2**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	655	953.72	1,051.4	2,263.0	87	12.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : YLBM152 Pippin 3**

Number of peaks found: 8                      Corr. Area 1: 1,497.7  
 Noise: 0.3

**Peak table for sample 3 : YLBM152 Pippin 3**

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	612	1,217.80	3,016.8		88.58
3	1,091	11.94	16.6		95.92
4	1,231	9.19	11.3		96.76
5	1,393	18.49	20.1		97.73
6	1,591	7.90	7.5		98.93
7	1,878	17.68	14.3		100.65
8	10,380	75.00	10.9	Upper Marker	113.00
9	11,938	0.00	0.0		114.64
10	13,159	0.00	0.0		115.92

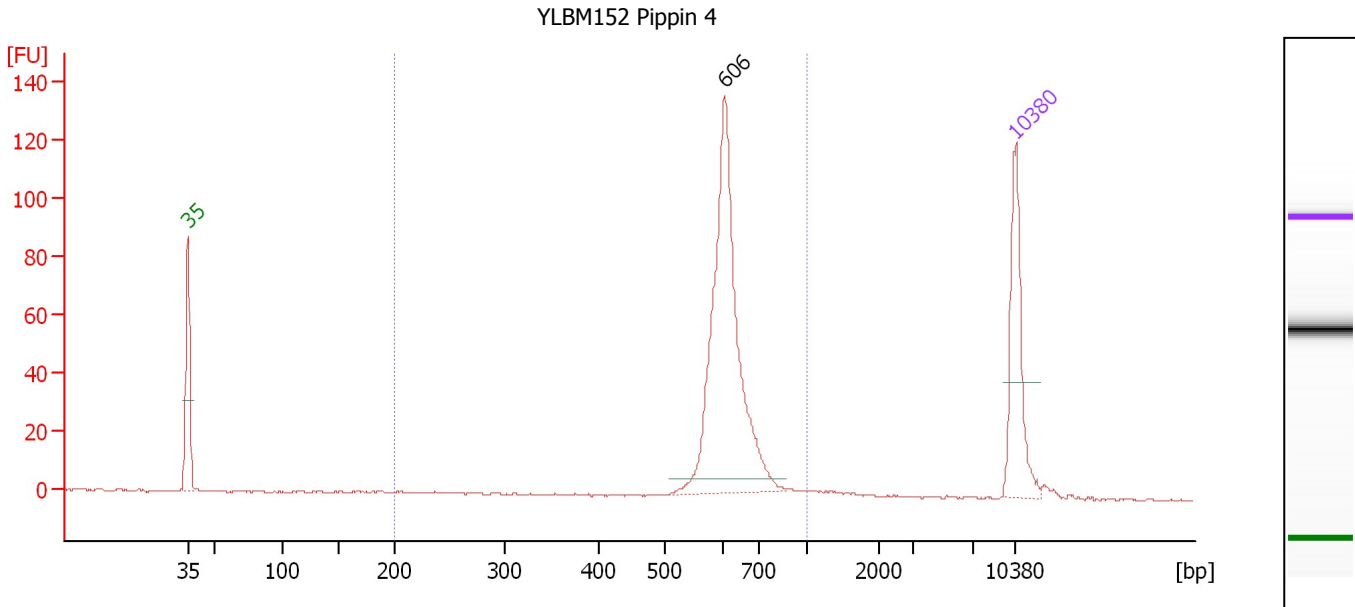
**Region table for sample 3 : YLBM152 Pippin 3**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	654	1,230.63	1,497.7	2,884.1	89	11.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : YLBM152 Pippin 4**

Number of peaks found: 1                      Corr. Area 1: 393.1  
 Noise: 0.3

**Peak table for sample 4 : YLBM152 Pippin 4**

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	606	306.05	765.8		88.39
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : YLBM152 Pippin 4**

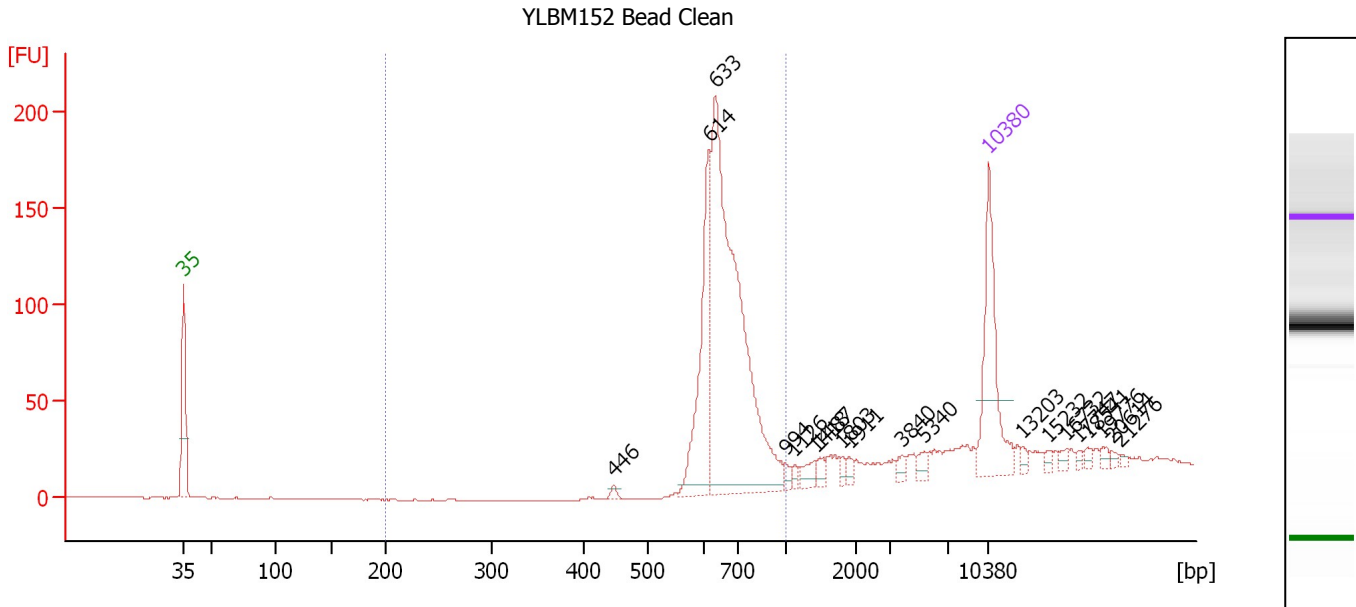
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	620	325.45	393.1	807.5	94	10.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

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 Modified: 10/25/2018 4:18:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : YLBM152 Bead Clean**

Number of peaks found: 19                      Corr. Area 1: 745.9  
 Noise: 0.3

**Peak table for sample 5 : YLBM152 Bead Clean**

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	446	3.53	12.0		80.32
3	614	121.14	298.7		88.66
4	633	373.93	895.3		89.22
5	994	4.48	6.8		95.29
6	1,126	4.08	5.5		96.13
7	1,418	9.71	10.4		97.89
8	1,487	5.79	5.9		98.30
9	1,803	4.41	3.7		100.21
10	1,911	4.67	3.7		100.85
11	3,840	4.98	2.0		105.44
12	5,340	5.87	1.7		107.34
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,203	0.00	0.0		115.97
15	15,232	0.00	0.0		118.10
16	16,732	0.00	0.0		119.68
17	17,747	0.00	0.0		120.74
18	18,541	0.00	0.0		121.58
19	19,776	0.00	0.0		122.87
20	20,614	0.00	0.0		123.75
21	21,276	0.00	0.0		124.45

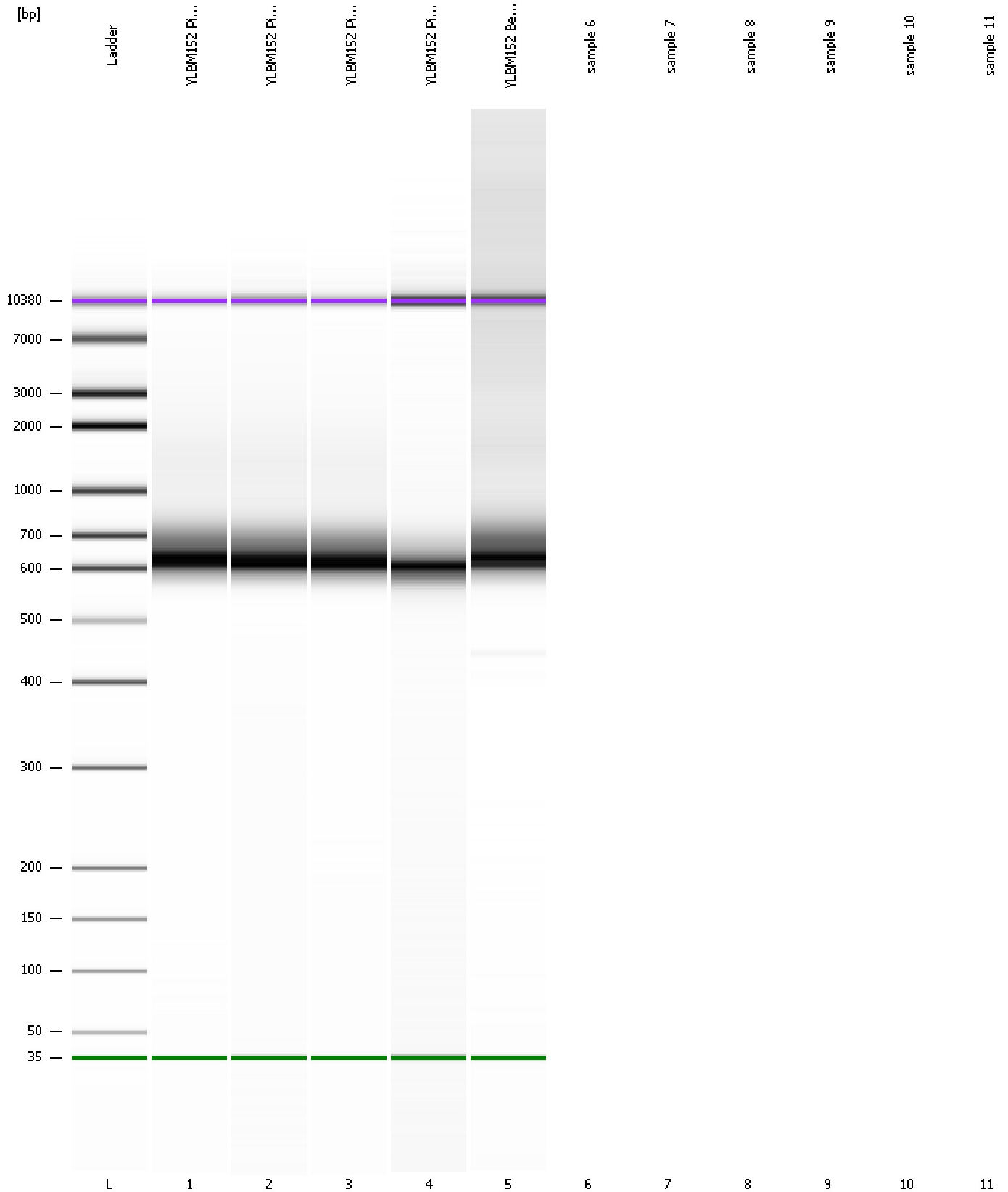
**Region table for sample 5 : YLBM152 Bead Clean**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	670	440.25	745.9	1,004.6	79	11.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

Created: 10/25/2018 3:54:48 PM  
Modified: 10/25/2018 4:18:58 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25\_004.xad

Created: 10/25/2018 3:54:48 PM  
Modified: 10/25/2018 4:18:58 PM

**Invalid Samples**

Sample 6 has not been run, no results available.

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.