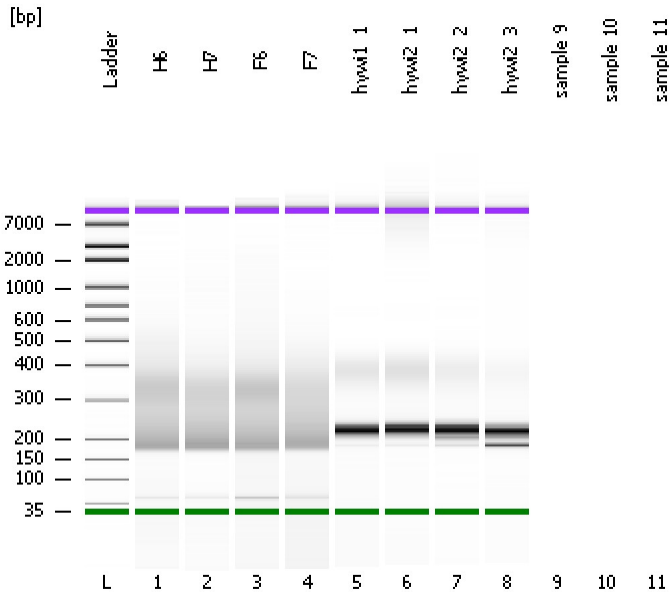


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

Created: 11/20/2018 11:20:14 AM  
Modified: 11/20/2018 11:58:28 AM

**Electrophoresis File Run Summary**



Instrument Information:

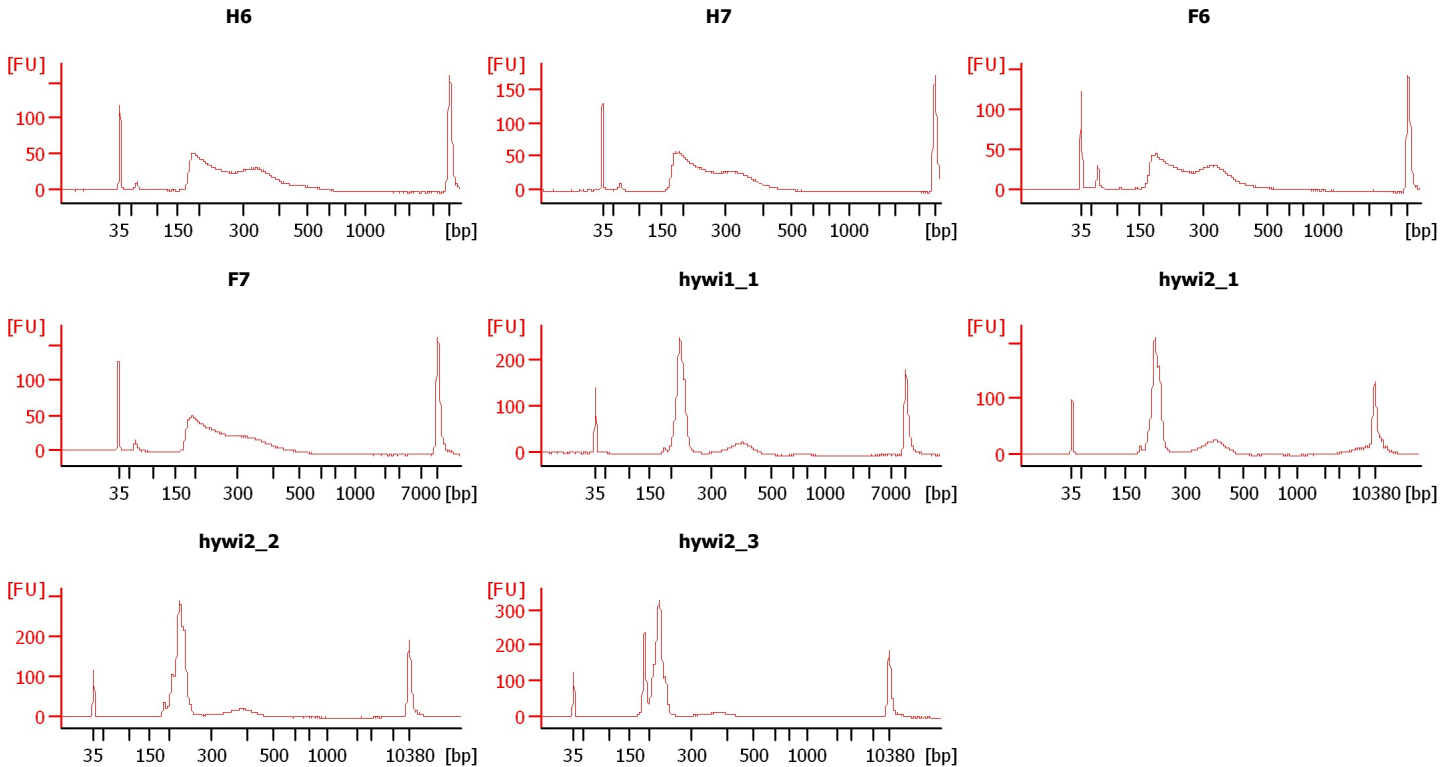
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

Created: 11/20/2018 11:20:14 AM  
 Modified: 11/20/2018 11:58:28 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H6		<input type="checkbox"/>	✓			
H7		<input type="checkbox"/>	✓			
F6		<input type="checkbox"/>	✓			
F7		<input type="checkbox"/>	✓			
hywi1_1		<input type="checkbox"/>	✓			
hywi2_1		<input type="checkbox"/>	✓			
hywi2_2		<input type="checkbox"/>	✓			
hywi2_3		<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\2018-11-20\2018-11-20\_001.xad

Created: 11/20/2018 11:20:14 AM  
Modified: 11/20/2018 11:58:28 AM

**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

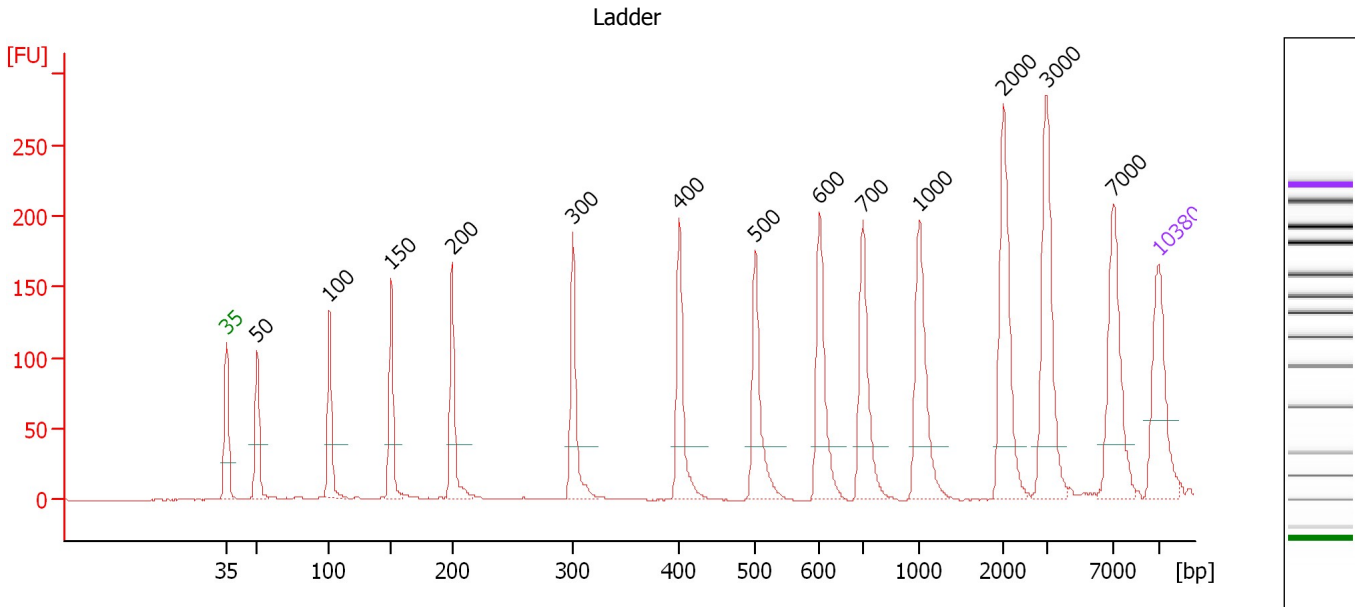
**Ladder**

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\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

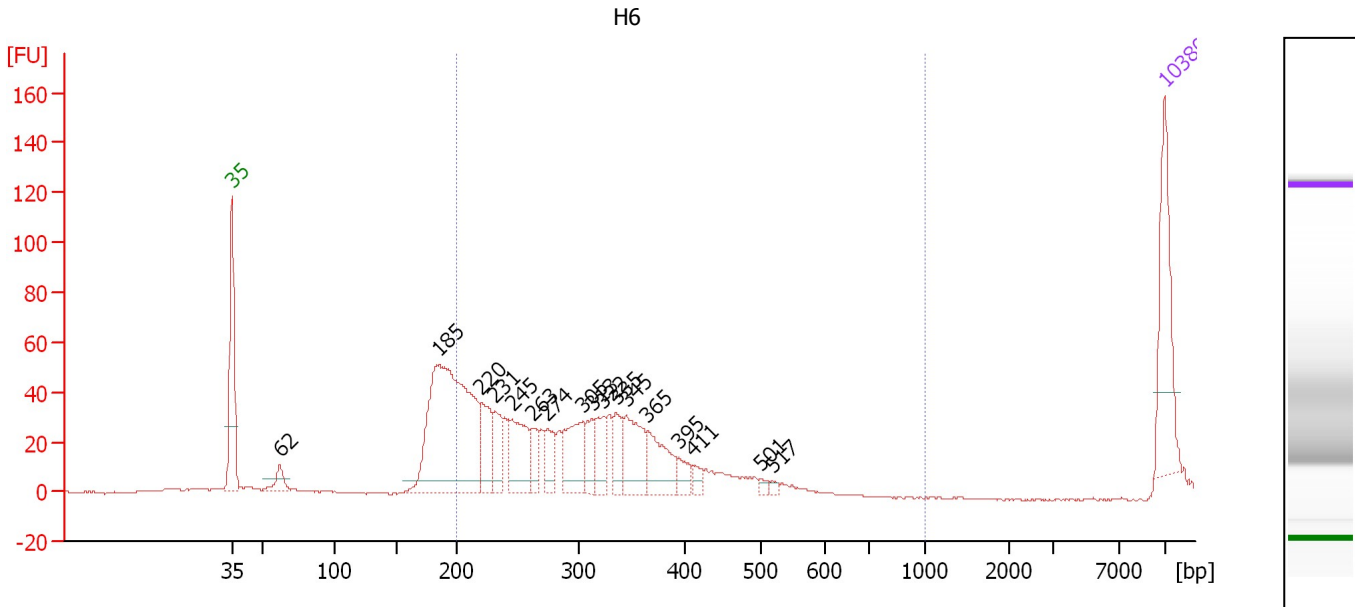
**Peak table for Ladder**

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.73
4	150	150.00	1,515.2	Ladder Peak	55.37
5	200	150.00	1,136.4	Ladder Peak	59.94
6	300	150.00	757.6	Ladder Peak	69.03
7	400	150.00	568.2	Ladder Peak	77.00
8	500	150.00	454.5	Ladder Peak	82.73
9	600	150.00	378.8	Ladder Peak	87.53
10	700	150.00	324.7	Ladder Peak	90.77
11	1,000	150.00	227.3	Ladder Peak	95.02
12	2,000	150.00	113.6	Ladder Peak	101.35
13	3,000	150.00	75.8	Ladder Peak	104.59
14	7,000	150.00	32.5	Ladder Peak	109.60
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : H6**

Number of peaks found: 17                      Corr. Area 1: 768.9  
 Noise: 0.3

**Peak table for sample 1 : H6**

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	62	23.87	582.3		46.60
3	185	382.95	3,136.5		58.57
4	220	60.25	415.5		61.73
5	231	40.23	264.2		62.73
6	245	75.30	466.0		64.01
7	263	21.72	125.2		65.65
8	274	29.70	164.1		66.69
9	305	69.47	345.3		69.42
10	313	31.93	154.6		70.06
11	322	34.04	160.2		70.78
12	335	30.40	137.3		71.86
13	345	65.81	289.0		72.62
14	365	52.92	219.6		74.22
15	395	15.71	60.3		76.58
16	411	10.90	40.2		77.62
17	501	4.29	13.0		82.78
18	517	3.69	10.8		83.54
19	10,380	75.00	10.9	Upper Marker	113.00

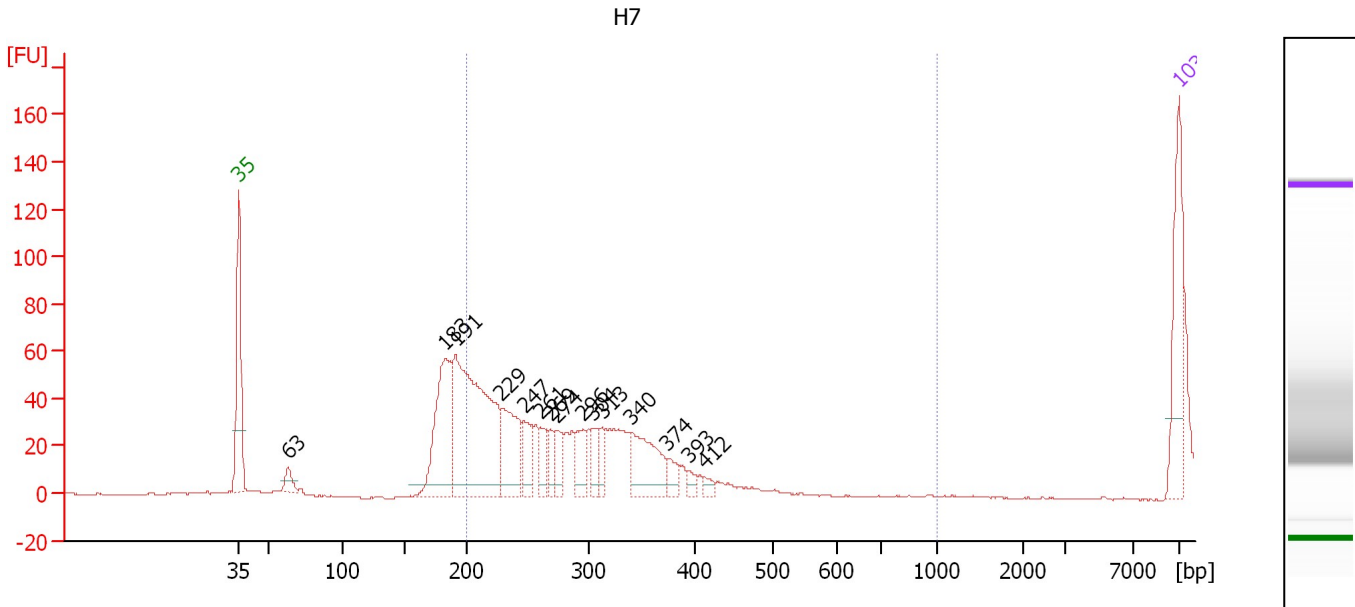
**Region table for sample 1 : H6**

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	298	733.67	768.9	3,997.4	75	23.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : H7**

Number of peaks found: 15                      Corr. Area 1: 214.1  
 Noise: 0.3

**Peak table for sample 2 : H7**

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	63	22.02	530.1		46.69
3	183	192.11	1,588.9		58.41
4	191	392.94	3,109.5		59.16
5	229	107.74	712.9		62.57
6	247	50.50	309.3		64.24
7	261	32.15	186.7		65.47
8	269	26.54	149.4		66.23
9	274	25.58	141.3		66.70
10	296	39.80	203.8		68.65
11	304	26.69	132.9		69.36
12	313	24.32	117.8		70.04
13	340	92.48	412.0		72.22
14	374	19.95	80.8		74.92
15	393	9.79	37.7		76.47
16	412	8.06	29.6		77.70
17	10,380	75.00	10.9	Upper Marker	113.00

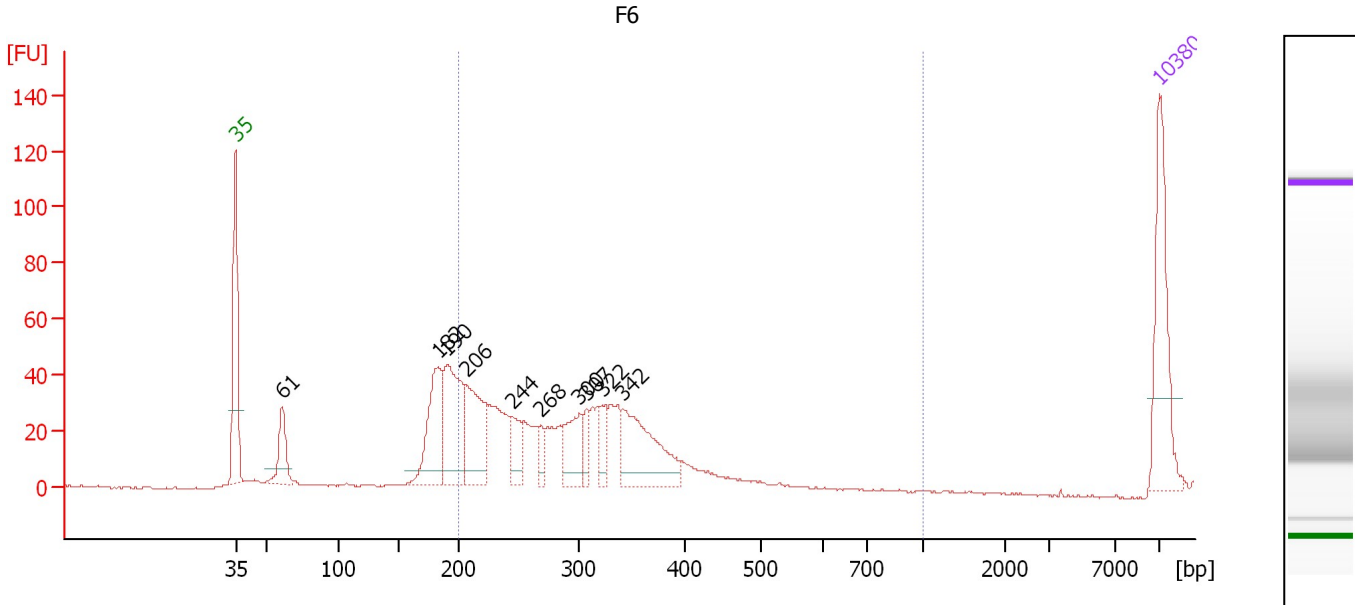
**Region table for sample 2 : H7**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	237	251.13	214.1	1,620.9	55	14.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : F6**

Number of peaks found: 10                      Corr. Area 1: 676.5  
 Noise: 0.3

**Peak table for sample 3 : F6**

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	61	47.82	1,181.9		46.51
3	182	99.70	829.3		58.31
4	190	118.81	946.9		59.04
5	206	94.93	699.5		60.45
6	244	30.59	190.1		63.92
7	268	16.64	94.0		66.14
8	300	49.12	247.8		69.05
9	307	19.21	94.7		69.62
10	322	22.97	108.2		70.75
11	342	103.78	459.3		72.41
12	10,380	75.00	10.9	Upper Marker	113.00

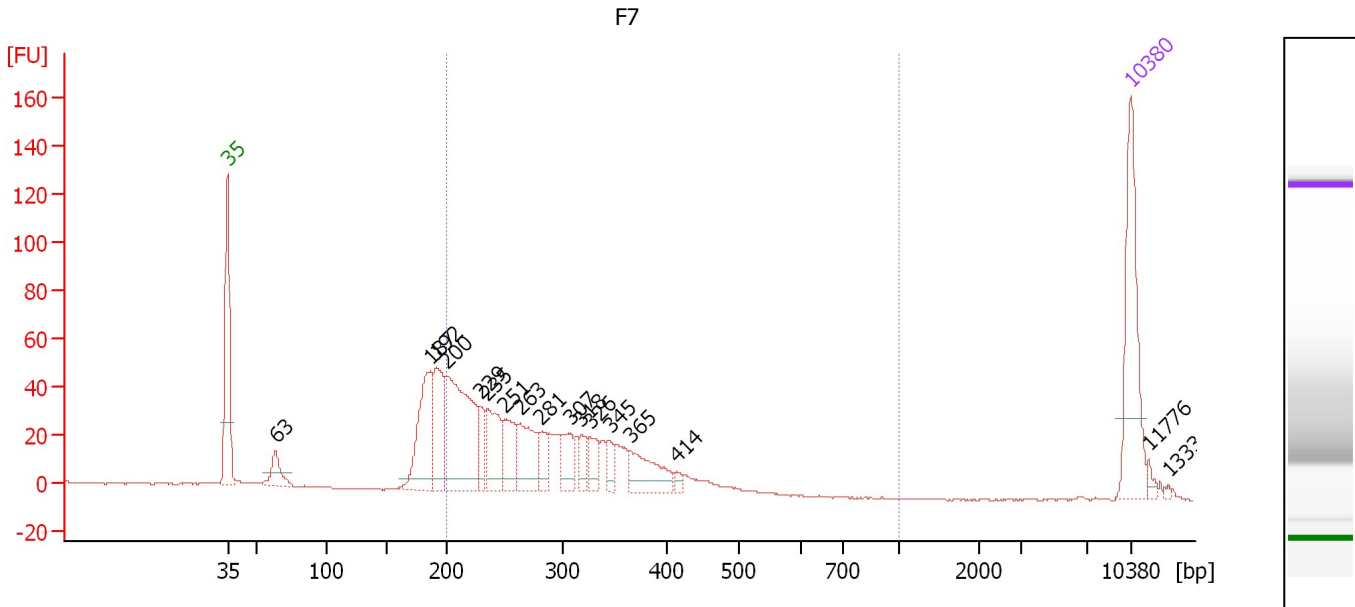
**Region table for sample 3 : F6**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	293	615.84	676.5	3,375.0	73	21.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : F7**

Number of peaks found: 17                      Corr. Area 1: 717.9  
 Noise: 0.3

**Peak table for sample 4 : F7**

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	63	27.80	666.4		46.72
3	187	101.11	821.2		58.71
4	192	70.74	558.3		59.21
5	200	159.44	1,207.1		59.95
6	229	26.17	173.3		62.56
7	235	56.97	367.0		63.14
8	251	42.92	259.4		64.54
9	263	53.09	305.9		65.66
10	281	19.90	107.3		67.31
11	307	27.21	134.3		69.59
12	318	17.17	81.9		70.45
13	326	21.25	98.7		71.12
14	345	12.62	55.3		72.65
15	365	44.36	184.1		74.22
16	414	4.95	18.1		77.81
17	10,380	75.00	10.9	Upper Marker	113.00
18	11,776	0.00	0.0		114.41
19	13,336	0.00	0.0		115.98

**Region table for sample 4 : F7**

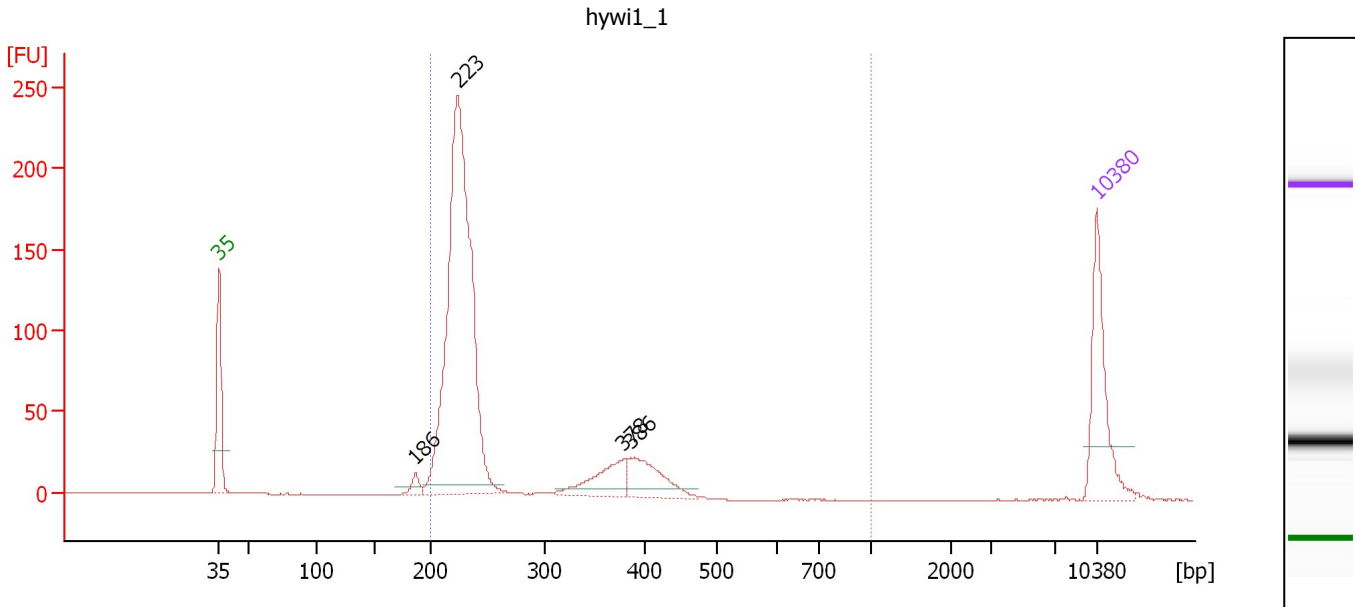
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	287	563.89	717.9	3,160.2	73	23.3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : hywi1\_1**

Number of peaks found: 4                      Corr. Area 1: 1,121.8  
 Noise: 0.2

**Peak table for sample 5 : hywi1\_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	186	12.98	105.8		58.64
3	223	622.84	4,229.6		62.04
4	378	50.77	203.4		75.26
5	386	59.10	232.2		75.85
6	10,380	75.00	10.9	Upper Marker	113.00

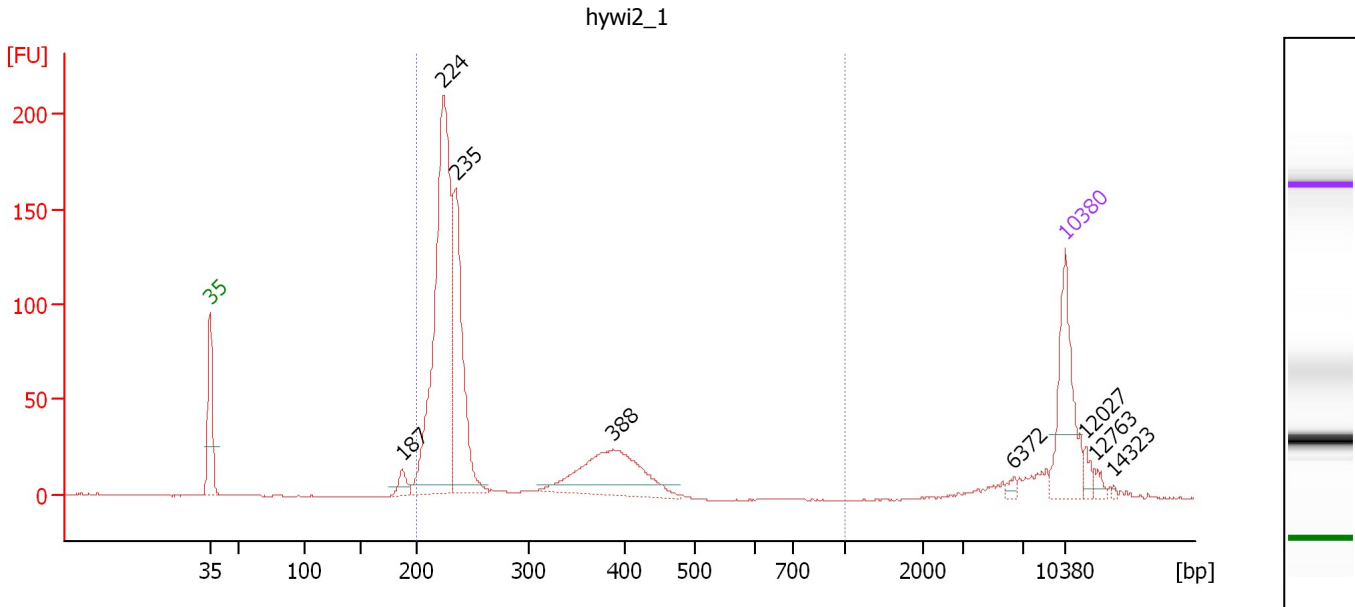
**Region table for sample 5 : hywi1\_1**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	258	738.27	1,121.8	4,649.3	97	25.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : hywi2\_1**

Number of peaks found: 8                      Corr. Area 1: 1,027.4  
 Noise: 0.3

**Peak table for sample 6 : hywi2\_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	187	17.44	141.6		58.71
3	224	458.30	3,100.9		62.11
4	235	213.31	1,375.5		63.12
5	388	136.14	531.7		76.04
6	6,372	4.64	1.1		108.81
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,027	0.00	0.0		114.66
9	12,763	0.00	0.0		115.40
10	14,323	0.00	0.0		116.97

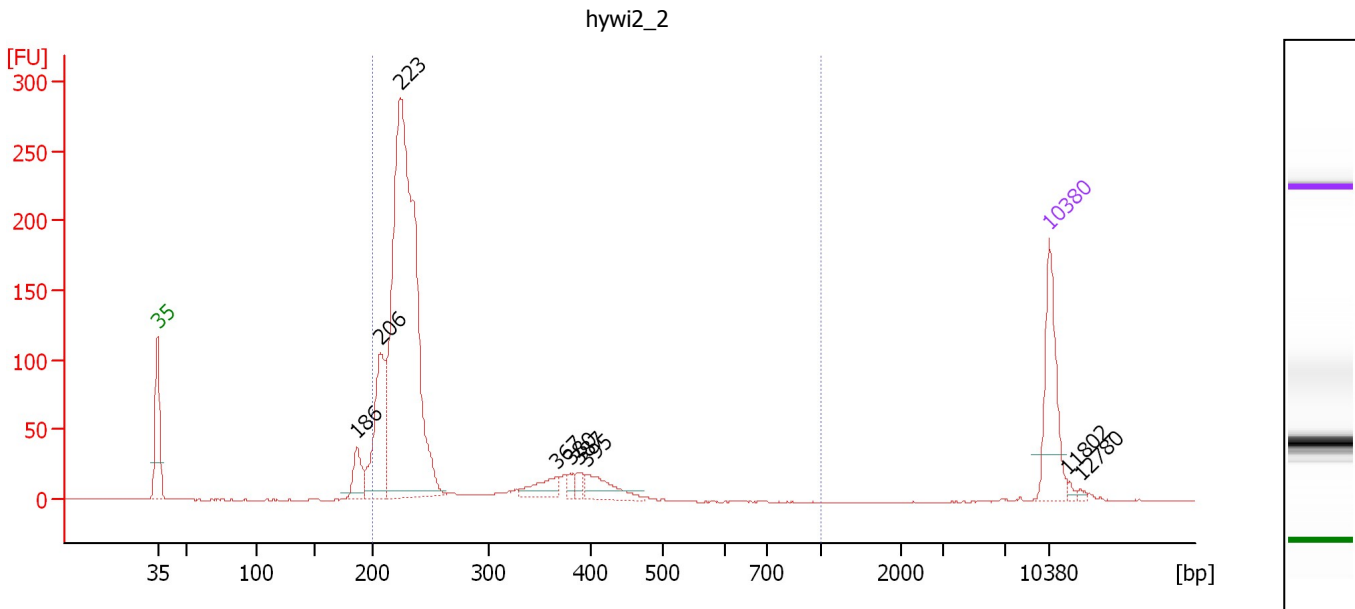
**Region table for sample 6 : hywi2\_1**

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	266	837.10	1,027.4	5,155.0	90	26.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : hywi2\_2**

Number of peaks found: 9                      Corr. Area 1: 1,383.6  
 Noise: 0.3

**Peak table for sample 7 : hywi2\_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	186	42.01	342.2		58.66
3	206	146.29	1,075.1		60.50
4	223	768.95	5,215.2		62.07
5	367	29.08	120.0		74.37
6	380	9.38	37.4		75.40
7	387	9.56	37.4		75.99
8	395	37.26	142.9		76.61
9	10,380	75.00	10.9	Upper Marker	113.00
10	11,802	0.00	0.0		114.43
11	12,780	0.00	0.0		115.42

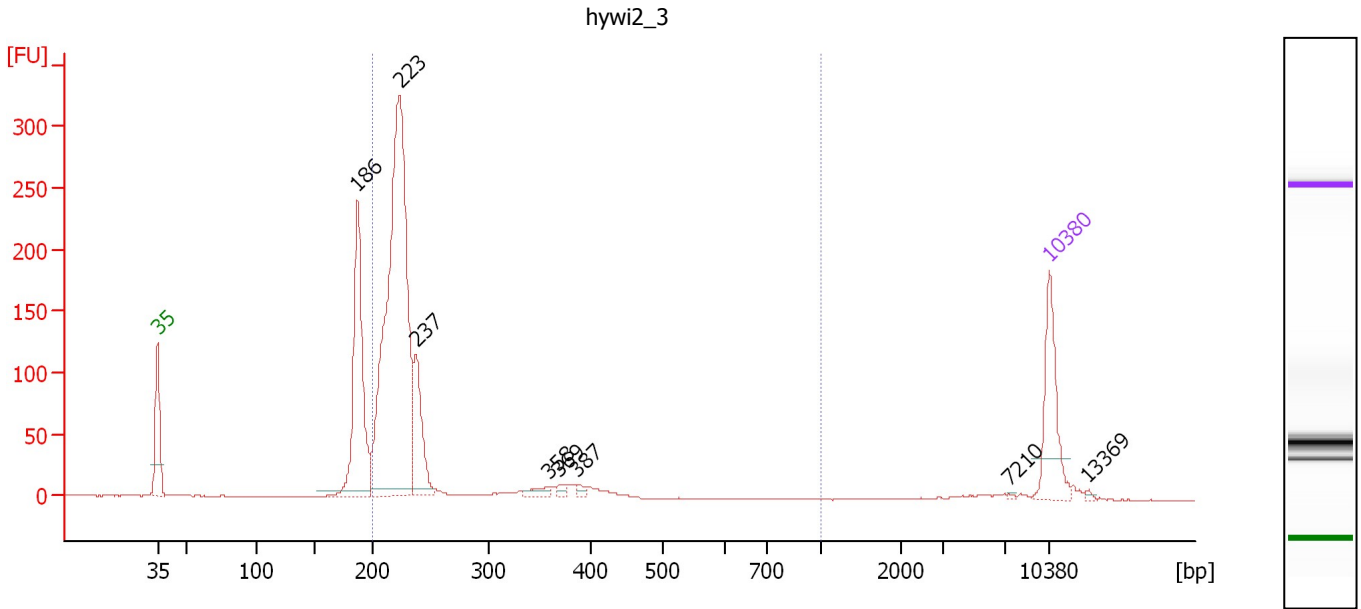
**Region table for sample 7 : hywi2\_2**

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	250	1,023.67	1,383.6	6,550.5	93	23.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : hywi2\_3**

Number of peaks found: 8                      Corr. Area 1: 1,257.1  
 Noise: 0.2

**Peak table for sample 8 : hywi2\_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	186	275.15	2,237.9		58.69
3	223	737.07	5,011.4		62.02
4	237	107.03	684.6		63.29
5	358	11.62	49.1		73.69
6	369	6.67	27.4		74.56
7	387	5.98	23.4		75.97
8	7,210	1.35	0.3		109.81
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,369	0.00	0.0		116.01

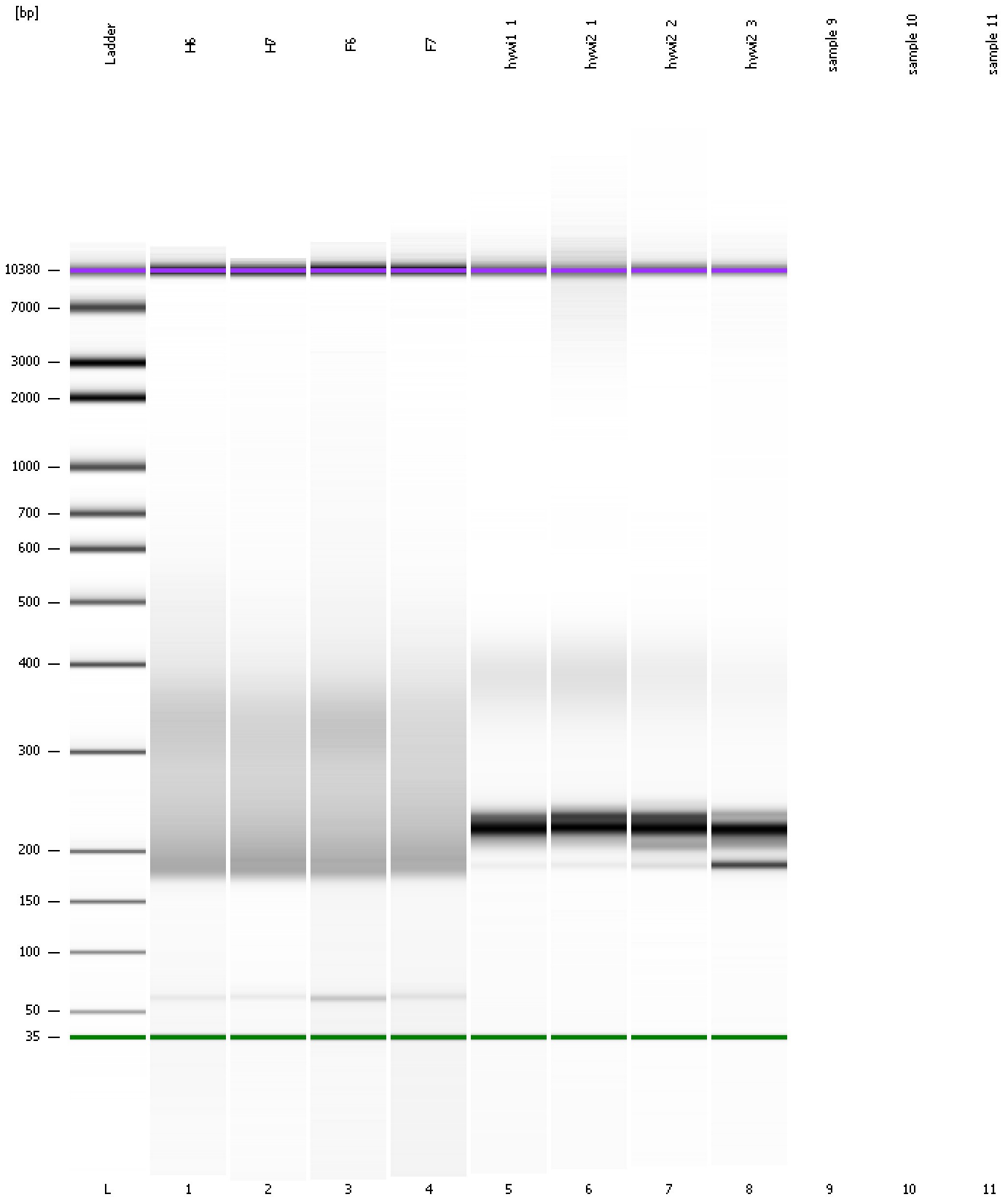
**Region table for sample 8 : hywi2\_3**

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	237	925.63	1,257.1	6,124.6	75	19.7

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-20\2018-11-20\_001.xad

Created: 11/20/2018 11:20:14 AM  
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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.