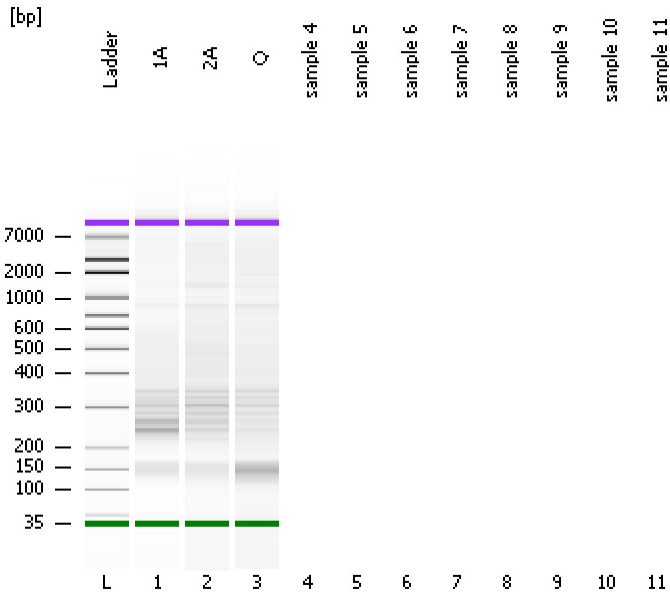


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad

Created: 6/5/2018 12:13:01 PM  
Modified: 6/5/2018 12:32:41 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

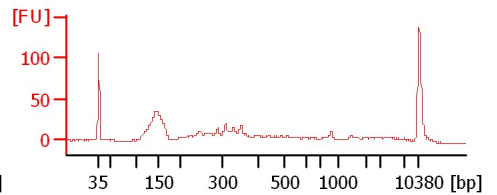
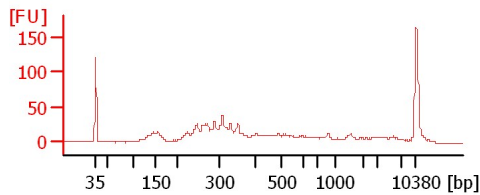
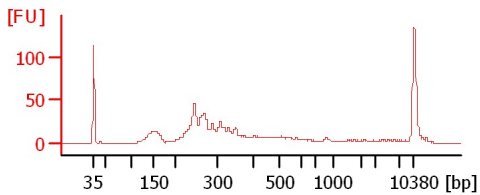
Chip Information:

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

1A

2A

Q



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad

Created: 6/5/2018 12:13:01 PM  
 Modified: 6/5/2018 12:32:41 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1A		<input type="checkbox"/>	✓			
2A		<input type="checkbox"/>	✓			
Q		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>				
sample 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\2018-06-05\2018-06-05\_001.xad

Created: 6/5/2018 12:13:01 PM  
Modified: 6/5/2018 12:32:41 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

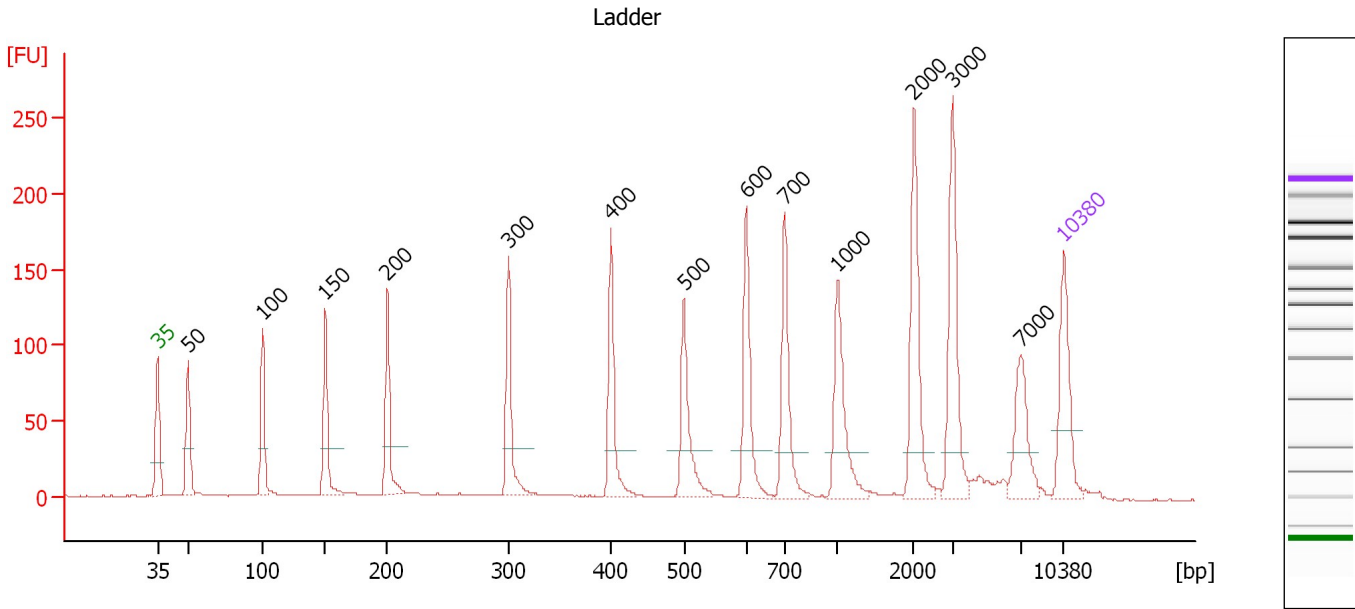
**Ladder**

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\2018-06-05\2018-06-05\_001.xad

Created: 6/5/2018 12:13:01 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.4

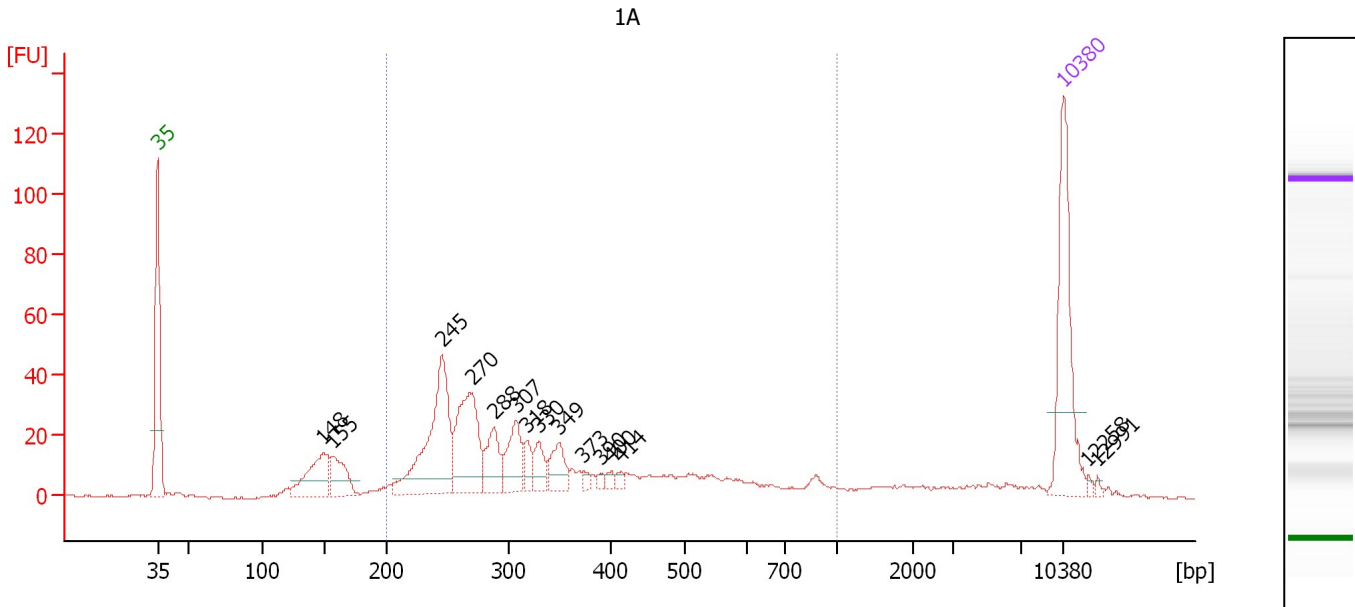
**Peak table for Ladder**

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	45.37
3	100	150.00	2,272.7	Ladder Peak	51.10
4	150	150.00	1,515.2	Ladder Peak	55.97
5	200	150.00	1,136.4	Ladder Peak	60.76
6	300	150.00	757.6	Ladder Peak	70.11
7	400	150.00	568.2	Ladder Peak	78.02
8	500	150.00	454.5	Ladder Peak	83.66
9	600	150.00	378.8	Ladder Peak	88.44
10	700	150.00	324.7	Ladder Peak	91.44
11	1,000	150.00	227.3	Ladder Peak	95.51
12	2,000	150.00	113.6	Ladder Peak	101.42
13	3,000	150.00	75.8	Ladder Peak	104.41
14	7,000	150.00	32.5	Ladder Peak	109.65
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1A**

Number of peaks found: 15                      Corr. Area 1: 589.7  
 Noise: 0.4

**Peak table for sample 1 : 1A**

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	148	58.21	596.0		55.77
3	155	36.92	360.8		56.45
4	245	135.75	838.2		65.00
5	270	94.77	532.4		67.27
6	288	35.07	184.4		69.00
7	307	39.21	193.3		70.68
8	318	13.93	66.3		71.55
9	330	19.17	88.1		72.45
10	349	24.97	108.3		74.00
11	373	4.27	17.4		75.86
12	390	3.41	13.2		77.23
13	400	4.90	18.6		78.00
14	414	4.52	16.5		78.82
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,258	0.00	0.0		114.86
17	12,991	0.00	0.0		115.59

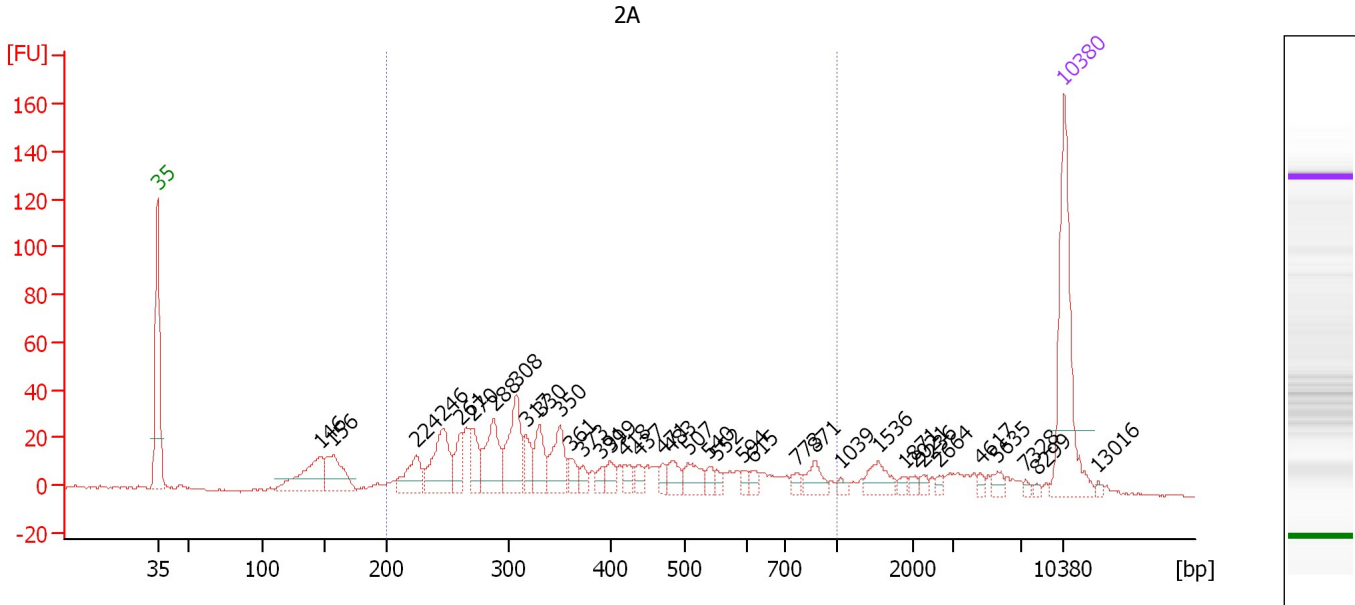
**Region table for sample 1 : 1A**

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	361	537.96	589.7	2,668.8	76	42.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2A**

Number of peaks found: 37                      Corr. Area 1: 644.7  
 Noise: 0.5

**Peak table for sample 2 : 2A**

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	146	53.29	553.1		55.58
3	156	42.02	408.2		56.54
4	224	29.61	200.6		62.97
5	246	54.56	335.7		65.08
6	261	19.89	115.5		66.46
7	270	24.20	135.6		67.33
8	288	45.61	240.0		68.98
9	308	51.85	255.2		70.72
10	317	17.91	85.6		71.46
11	330	25.77	118.2		72.51
12	350	32.91	142.4		74.08
13	361	11.54	48.4		74.95
14	373	7.11	28.9		75.87
15	391	7.31	28.3		77.29
16	399	9.38	35.6		77.93
17	418	8.79	31.9		79.03
18	437	7.65	26.5		80.13
19	471	7.36	23.7		82.02
20	483	12.36	38.8		82.70
21	507	15.67	46.8		83.99
22	540	6.74	18.9		85.55
23	552	4.44	12.2		86.15
24	594	5.04	12.9		88.17
25	615	5.56	13.7		88.90

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : 2A

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	773	5.62	11.0		92.44
27	871	12.73	22.1		93.77
28	1,039	3.71	5.4		95.74
29	1,536	14.46	14.3		98.68
30	1,871	3.22	2.6		100.65
31	2,021	3.17	2.4		101.48
32	2,236	3.23	2.2		102.12
33	2,664	2.50	1.4		103.41
34	4,617	2.68	0.9		106.53
35	5,635	4.92	1.3		107.86
36	7,328	2.04	0.4		109.97
37	8,299	1.50	0.3		110.93
38	10,380	75.00	10.9	Upper Marker	113.00
39	13,016	0.00	0.0		115.62

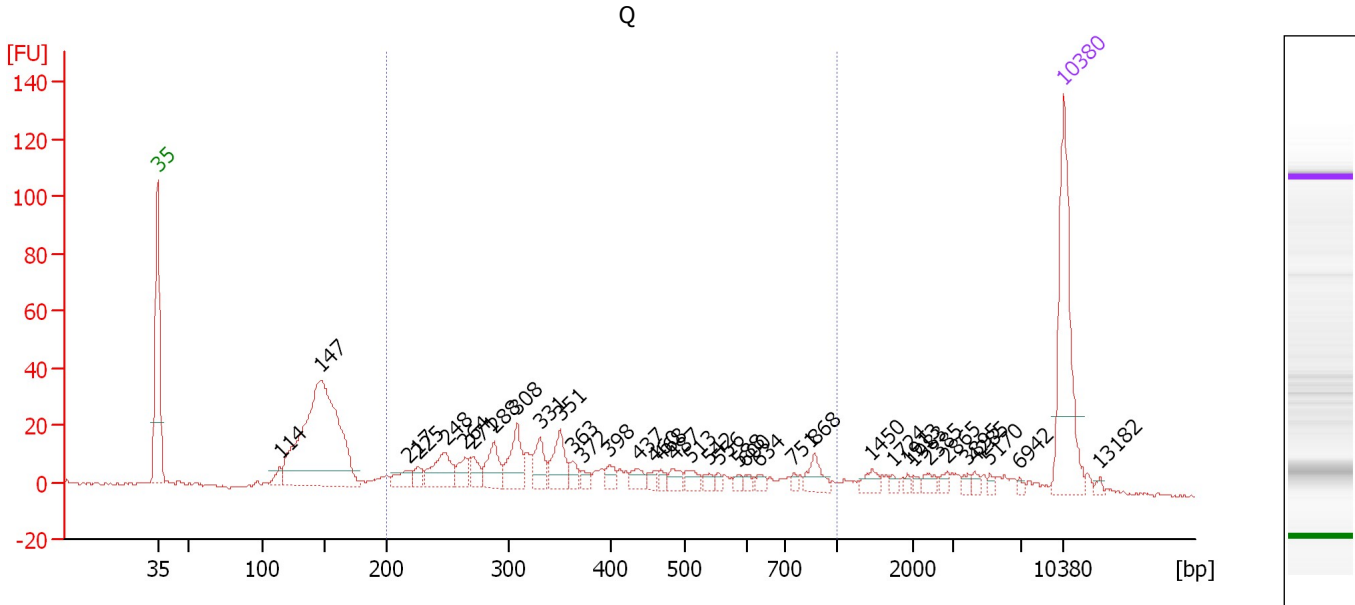
#### Region table for sample 2 : 2A

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	401	481.03	644.7	2,194.4	 73	42.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Q**

Number of peaks found: 37                      Corr. Area 1: 381.1  
 Noise: 0.5

**Peak table for sample 3 : Q**

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	114	8.61	114.5		52.46
3	147	261.59	2,700.5		55.66
4	217	13.43	93.7		62.38
5	225	8.40	56.5		63.12
6	248	32.83	200.5		65.25
7	264	14.93	85.5		66.78
8	271	12.77	71.4		67.38
9	288	24.95	131.1		69.01
10	308	30.98	152.2		70.77
11	331	20.45	93.7		72.53
12	351	26.73	115.6		74.11
13	363	8.05	33.6		75.08
14	372	5.77	23.5		75.82
15	398	8.23	31.3		77.86
16	437	9.39	32.5		80.13
17	460	5.78	19.0		81.38
18	468	4.91	15.9		81.85
19	487	8.23	25.6		82.91
20	513	8.43	24.9		84.26
21	542	4.34	12.1		85.65
22	556	3.62	9.9		86.34
23	588	3.68	9.5		87.87
24	600	3.88	9.8		88.43
25	634	4.68	11.2		89.45



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad

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 Modified: 6/5/2018 12:32:41 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 3 : Q**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	751	3.01	6.1		92.14
27	868	13.14	22.9		93.72
28	1,450	7.37	7.7		98.17
29	1,724	2.55	2.2		99.79
30	1,913	2.29	1.8		100.90
31	1,983	2.35	1.8		101.32
32	2,385	5.11	3.2		102.57
33	2,865	3.43	1.8		104.01
34	3,895	2.73	1.1		105.58
35	4,285	3.06	1.1		106.09
36	5,170	2.28	0.7		107.25
37	6,942	2.00	0.4		109.57
38	10,380	75.00	10.9	Upper Marker	113.00
39	13,182	0.00	0.0		115.78

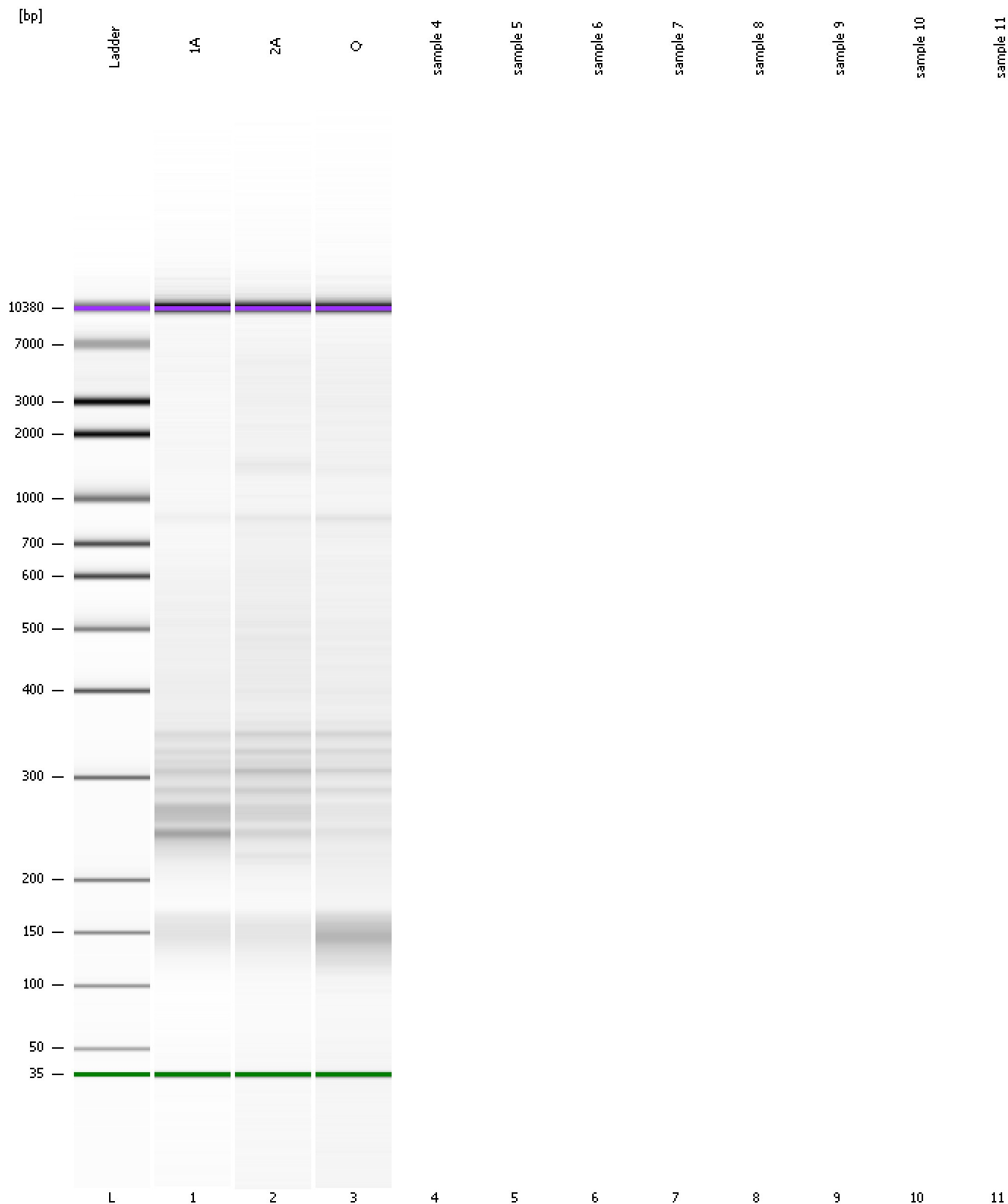
**Region table for sample 3 : Q**

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	417	336.20	381.1	1,500.3	51	43.4

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad

Created: 6/5/2018 12:13:01 PM  
Modified: 6/5/2018 12:32:41 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-05\2018-06-05\_001.xad

Created: 6/5/2018 12:13:01 PM  
Modified: 6/5/2018 12:32:41 PM

**Invalid Samples**

Sample 4 has not been run, no results available.

Sample 5 has not been run, no results available.

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.