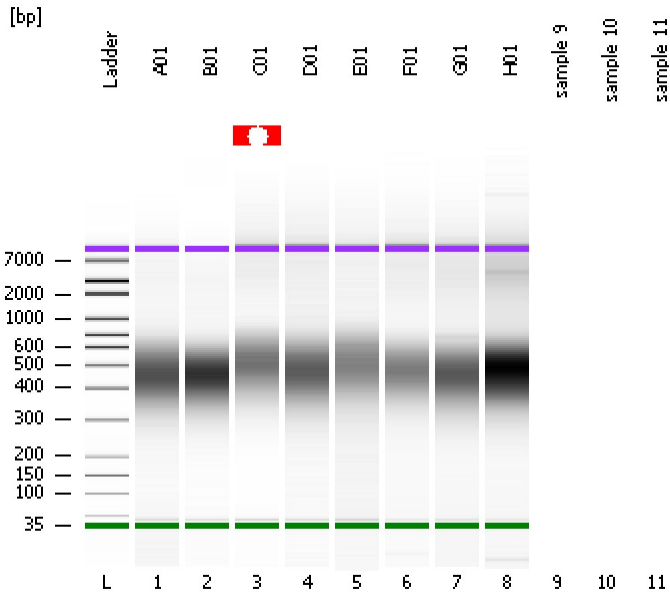


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
Modified: 8/10/2017 10:36:25 AM

**Electrophoresis File Run Summary**



Instrument Information:

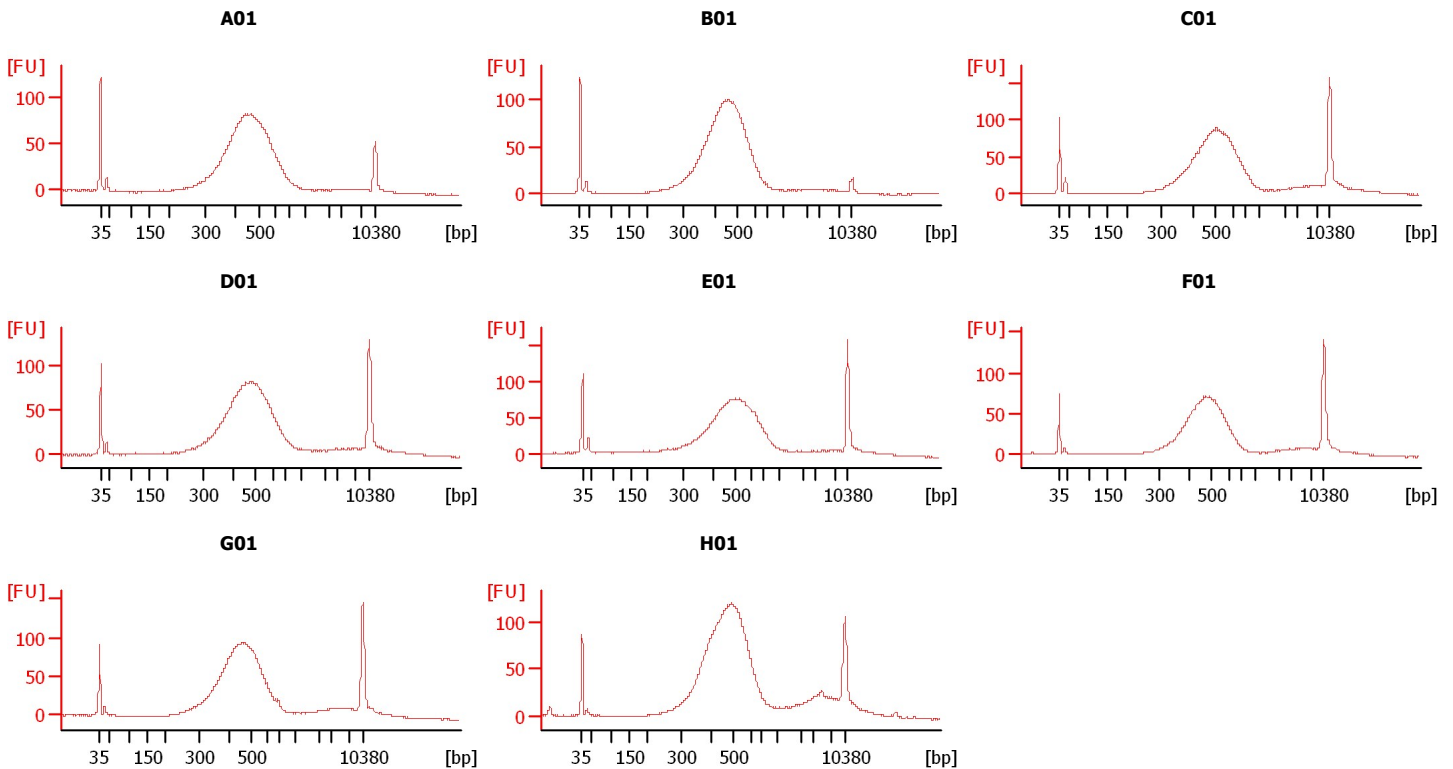
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A01		<input type="checkbox"/>	✓			
B01		<input type="checkbox"/>	✓			
C01		<input type="checkbox"/>	⚠			
D01		<input type="checkbox"/>	✓			
E01		<input type="checkbox"/>	✓			
F01		<input type="checkbox"/>	✓			
G01		<input type="checkbox"/>	✓			
H01		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

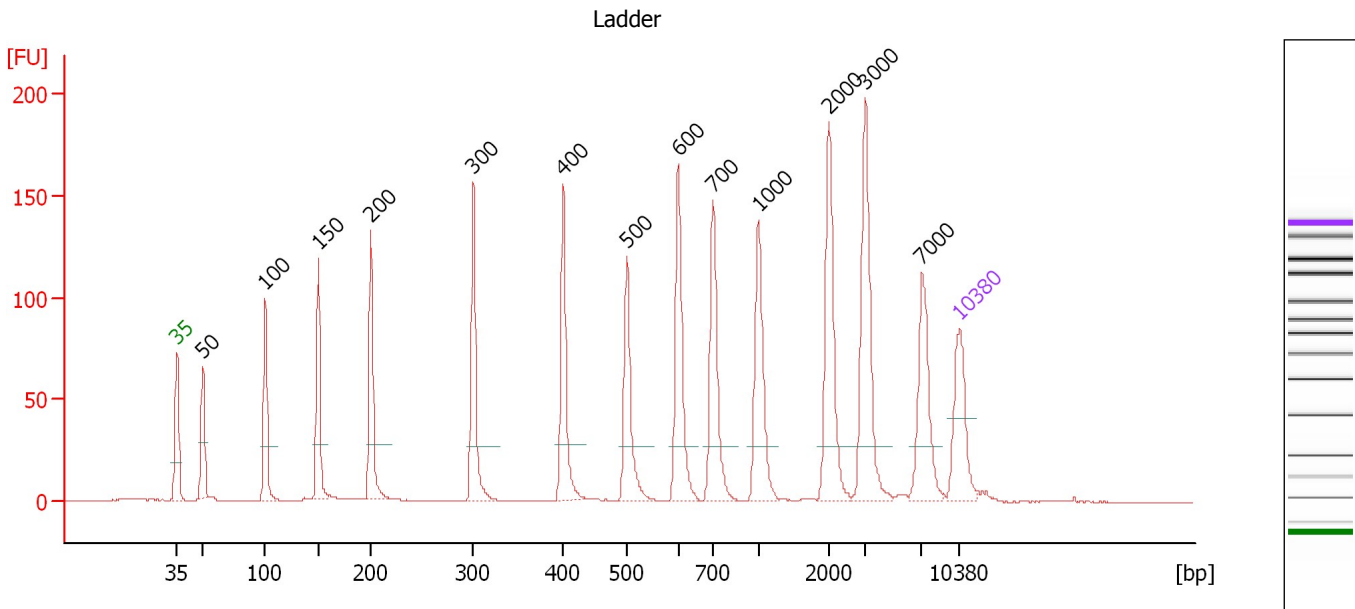
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

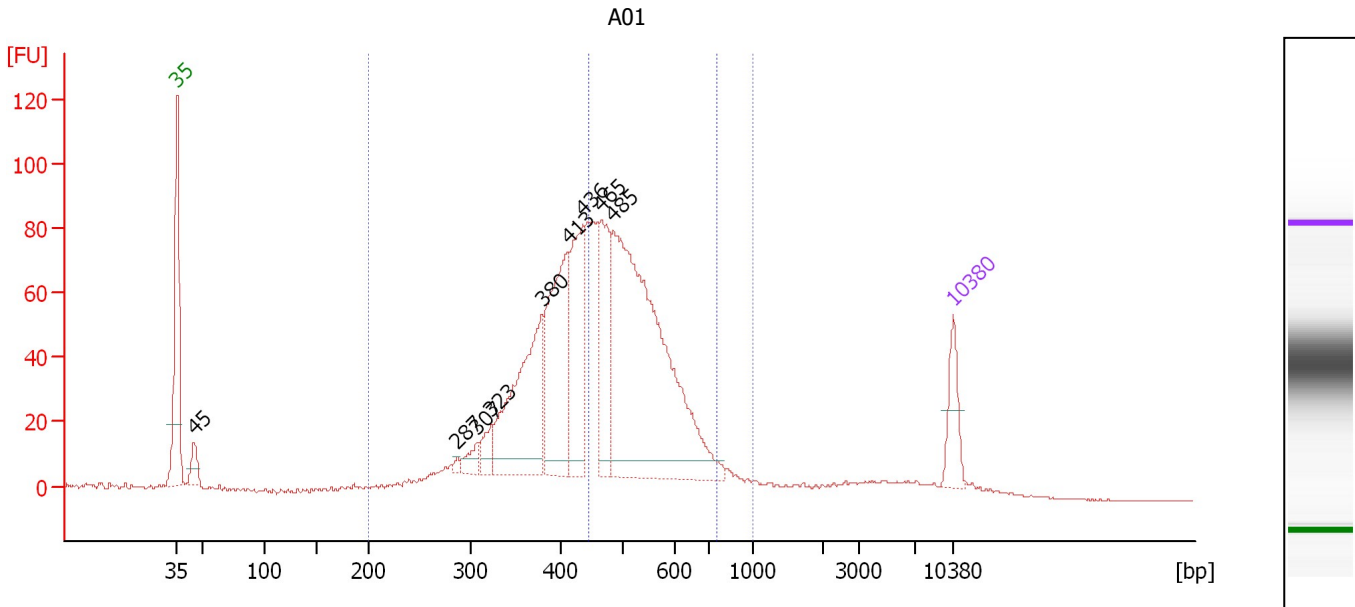
**Peak table for Ladder**

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	50.92
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.36
6	300	150.00	757.6	Ladder Peak	69.51
7	400	150.00	568.2	Ladder Peak	77.57
8	500	150.00	454.5	Ladder Peak	83.25
9	600	150.00	378.8	Ladder Peak	87.82
10	700	150.00	324.7	Ladder Peak	90.97
11	1,000	150.00	227.3	Ladder Peak	95.02
12	2,000	150.00	113.6	Ladder Peak	101.32
13	3,000	150.00	75.8	Ladder Peak	104.56
14	7,000	150.00	32.5	Ladder Peak	109.61
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : A01**

Number of peaks found: 9                      Corr. Area 1: 1,504.8  
 Noise: 0.2                                      Corr. Area 2: 760.5

**Peak table for sample 1 : A01**

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	45	64.76	2,186.4		44.54
3	287	10.86	57.4		68.29
4	307	41.34	204.1		70.07
5	323	53.81	252.4		71.37
6	380	435.63	1,738.5		75.93
7	413	411.93	1,512.5		78.29
8	436	298.22	1,037.5		79.59
9	465	243.04	791.6		81.27
10	485	1,124.63	3,515.8		82.37
11	10,380	75.00	10.9	Upper Marker	113.00

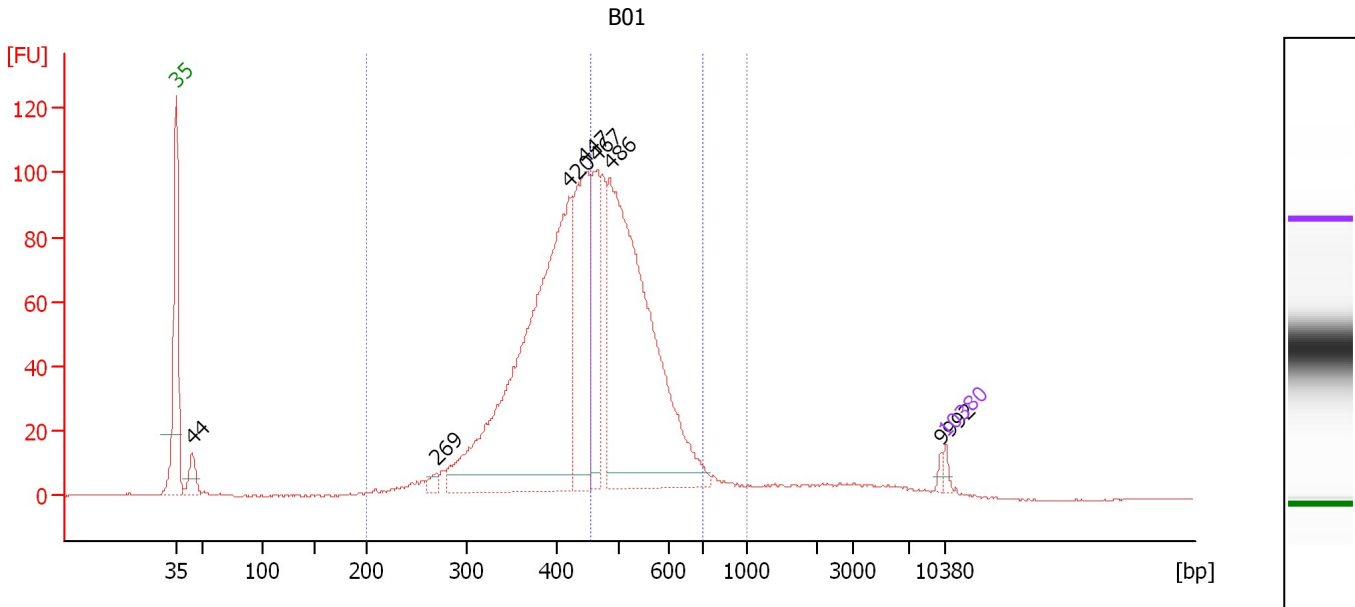
**Region table for sample 1 : A01**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	466	1,504.8	11,800.2	3,366.86	93	23.2
444	752	528	760.5	4,812.6	1,646.37	47	12.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : B01**

Number of peaks found: 7                      Corr. Area 1: 1,655.4  
 Noise: 0.1                                      Corr. Area 2: 732.8

**Peak table for sample 2 : B01**

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	44	515.94	17,626.5		44.46
3	269	153.89	868.0		66.64
4	420	8,849.28	31,893.8		78.73
5	447	2,962.26	10,042.8		80.23
6	467	1,677.57	5,447.5		81.35
7	486	7,967.37	24,825.3		82.47
8	9,992	48.28	7.3		112.61
9	10,380	75.00	10.9	Upper Marker	113.00

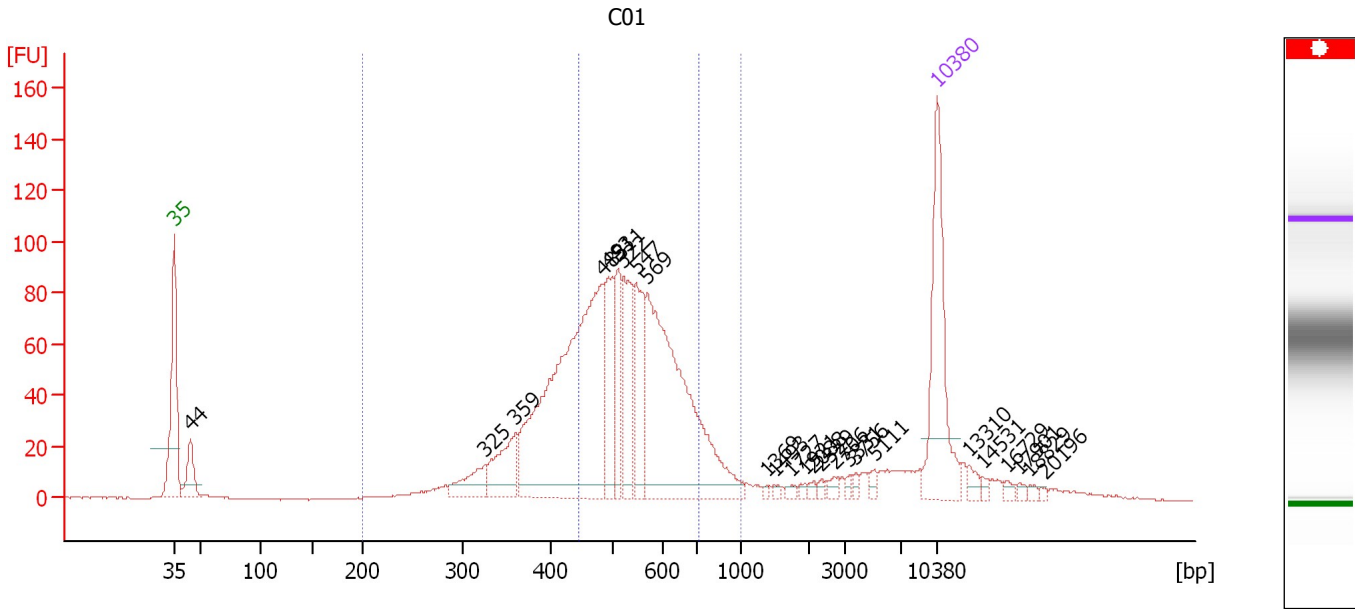
**Region table for sample 2 : B01**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	458	1,655.4	87,267.0	24,658.27	94	21.7
456	696	524	732.8	30,857.8	10,545.36	42	10.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : C01**

Number of peaks found: 25                      Corr. Area 1: 1,475.8  
 Noise: 0.2    Corr. Area 2: 933.2

**Peak table for sample 3 : C01**

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	44	33.13	1,130.1		44.47
3	325	26.69	124.5		71.52
4	359	42.34	178.5		74.31
5	483	304.55	955.4		82.28
6	493	53.08	163.0		82.87
7	511	38.49	114.1		83.75
8	522	59.12	171.7		84.24
9	547	54.71	151.5		85.41
10	569	219.74	585.5		86.39
11	1,369	1.55	1.7		97.35
12	1,493	2.12	2.2		98.13
13	1,727	2.66	2.3		99.60
14	1,921	2.09	1.7		100.82
15	2,088	2.25	1.6		101.60
16	2,329	2.06	1.3		102.39
17	2,706	3.43	1.9		103.61
18	3,331	2.40	1.1		104.98
19	3,756	2.60	1.0		105.52
20	5,111	3.76	1.1		107.23
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,310	0.00	0.0		115.94
23	14,531	0.00	0.0		117.16
24	16,729	0.00	0.0		119.36
25	17,901	0.00	0.0		120.53

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : C01

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	18,829	0.00	0.0		121.46
27	20,196	0.00	0.0		122.83

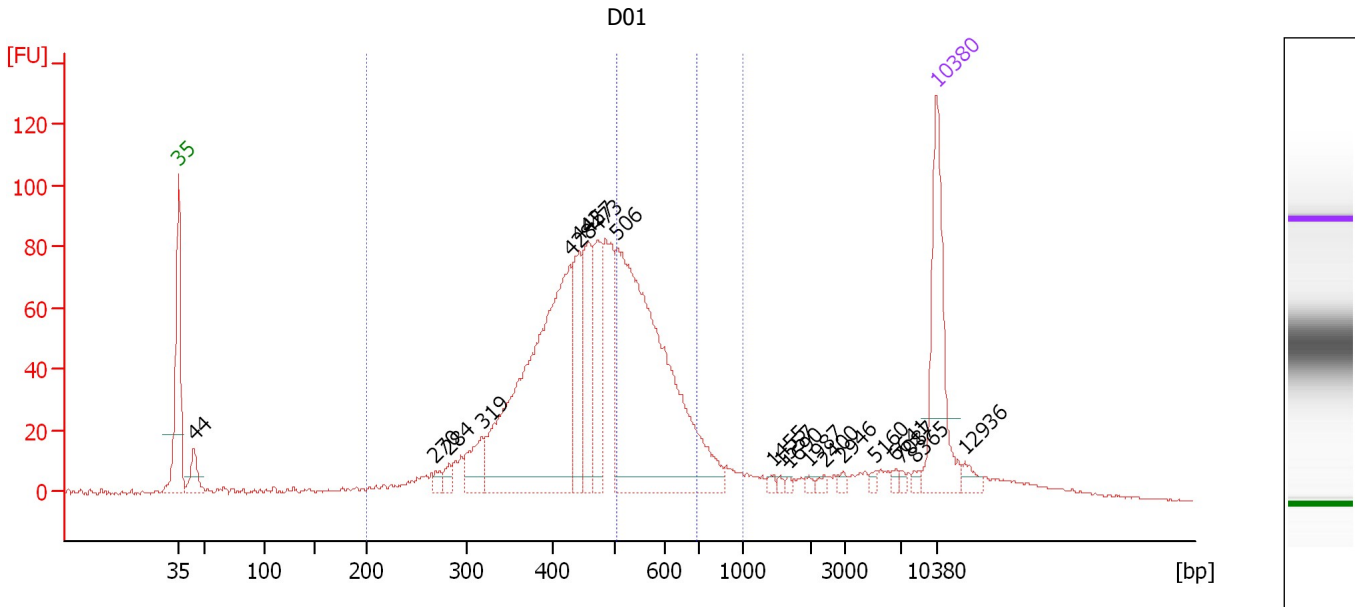
#### Region table for sample 3 : C01

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	512	1,475.8	2,675.0	834.68	86	23.6
445	714	544	933.2	1,466.1	516.75	54	12.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : D01**

Number of peaks found: 20                      Corr. Area 1: 1,533.5  
 Noise: 0.4    Corr. Area 2: 454.8

**Peak table for sample 4 : D01**

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	44	26.78	918.7		44.43
3	270	7.19	40.4		66.73
4	284	8.44	45.1		68.01
5	319	31.21	148.4		71.01
6	428	320.71	1,136.6		79.13
7	442	61.14	209.5		79.97
8	457	70.01	232.1		80.81
9	473	59.67	191.3		81.69
10	506	361.82	1,083.7		83.51
11	1,455	2.87	3.0		97.89
12	1,557	1.87	1.8		98.53
13	1,690	1.91	1.7		99.36
14	1,987	2.40	1.8		101.23
15	2,400	2.67	1.7		102.61
16	2,946	2.87	1.5		104.39
17	5,160	2.79	0.8		107.29
18	6,641	2.53	0.6		109.16
19	7,087	2.19	0.5		109.70
20	8,365	2.66	0.5		110.98
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,936	0.00	0.0		115.56



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**

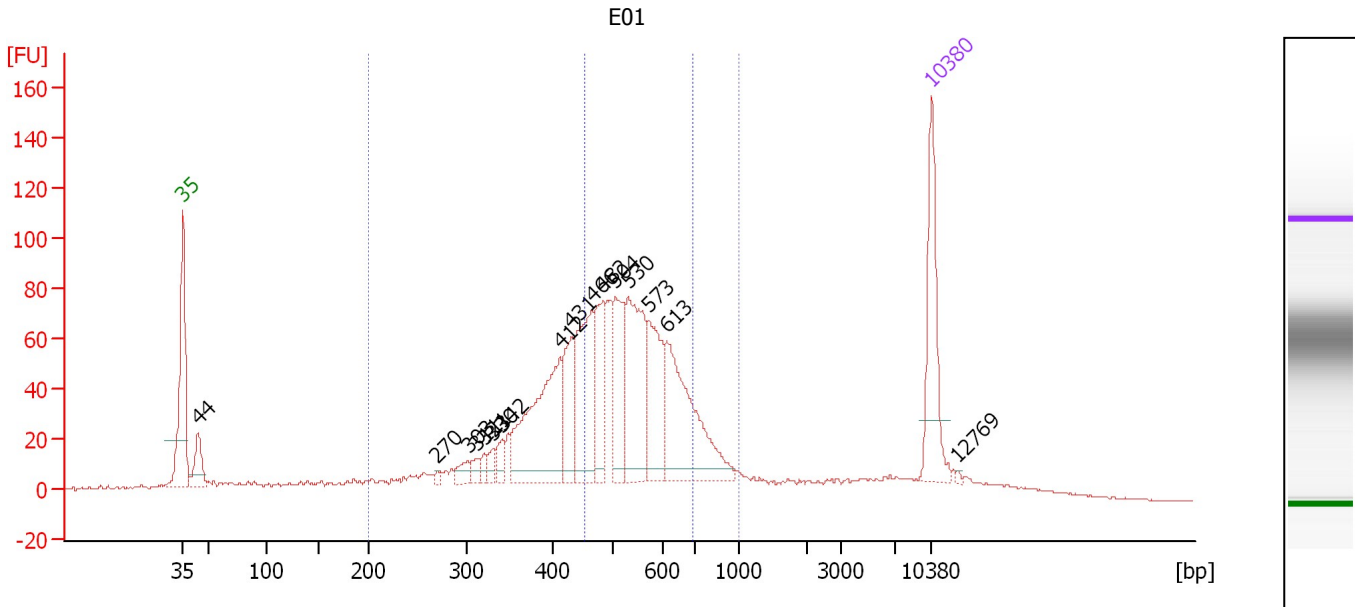
... Region table for sample 4 : D01

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	479	1,533.5	3,726.1	1,080.40	87	25.1
505	694	572	454.8	808.2	303.06	26	8.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : E01**

Number of peaks found: 16                      Corr. Area 1: 1,481.8  
 Noise: 0.3    Corr. Area 2: 794.4

**Peak table for sample 5 : E01**

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	44	46.27	1,594.7		44.40
3	270	4.62	25.9		66.78
4	303	15.06	75.4		69.72
5	311	10.96	53.3		70.42
6	321	9.06	42.8		71.17
7	330	11.91	54.6		71.97
8	342	16.13	71.6		72.86
9	412	168.67	620.4		78.25
10	431	61.11	214.7		79.35
11	466	115.82	376.9		81.29
12	482	72.25	227.0		82.24
13	504	79.49	238.9		83.43
14	530	127.44	364.1		84.63
15	573	82.66	218.7		86.58
16	613	145.23	359.2		88.22
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,769	0.00	0.0		115.39

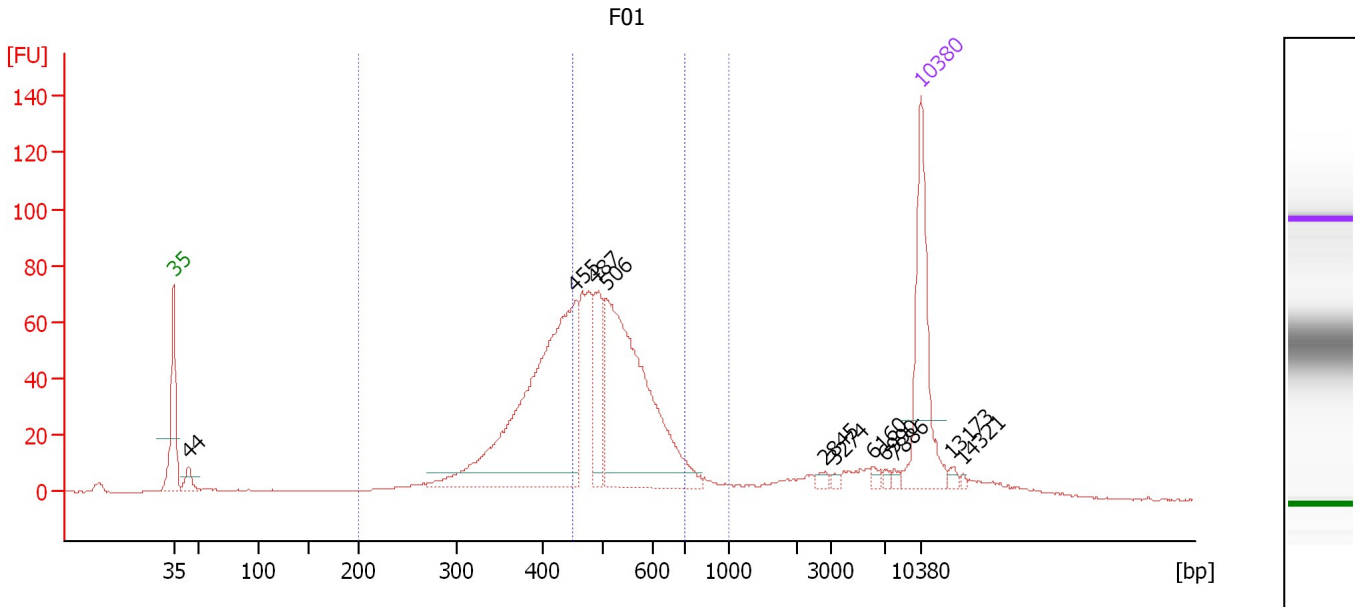
**Region table for sample 5 : E01**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	502	1,481.8	4,004.9	1,187.59	83	26.6
453	692	546	794.4	1,736.2	615.79	44	11.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : F01**

Number of peaks found: 11                      Corr. Area 1: 1,174.3  
 Noise: 0.2    Corr. Area 2: 631.2

**Peak table for sample 6 : F01**

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	44	14.79	509.4		44.40
3	455	308.64	1,028.5		80.67
4	487	55.50	172.6		82.52
5	506	245.39	734.7		83.52
6	2,845	3.43	1.8		104.06
7	3,274	2.15	1.0		104.91
8	6,160	3.48	0.9		108.55
9	6,990	2.25	0.5		109.60
10	7,886	2.52	0.5		110.50
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,173	0.00	0.0		115.80
13	14,321	0.00	0.0		116.95

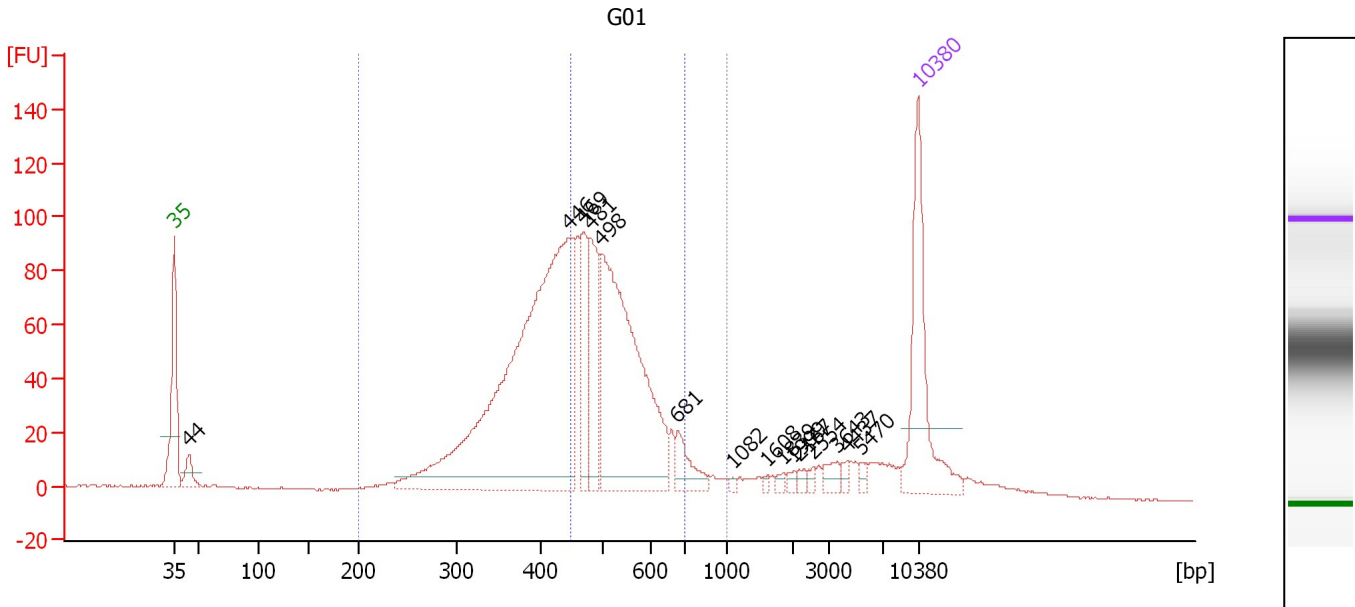
**Region table for sample 6 : F01**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	479	1,174.3	2,652.5	778.71	84	22.7
450	697	530	631.2	1,179.4	406.71	45	11.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : G01**

Number of peaks found: 15                      Corr. Area 1: 1,670.5  
 Noise: 0.2    Corr. Area 2: 798.6

**Peak table for sample 7 : G01**

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	44	19.32	669.9		44.35
3	446	465.96	1,582.8		80.18
4	469	47.43	153.2		81.49
5	481	71.06	224.1		82.14
6	498	250.90	763.0		83.14
7	681	23.70	52.7		90.37
8	1,082	1.62	2.3		95.54
9	1,608	1.78	1.7		98.85
10	1,839	2.76	2.3		100.30
11	1,999	2.71	2.1		101.31
12	2,167	3.29	2.3		101.86
13	2,554	2.98	1.8		103.11
14	3,643	7.53	3.1		105.37
15	4,437	3.51	1.2		106.38
16	5,470	3.18	0.9		107.68
17	10,380	75.00	10.9	Upper Marker	113.00

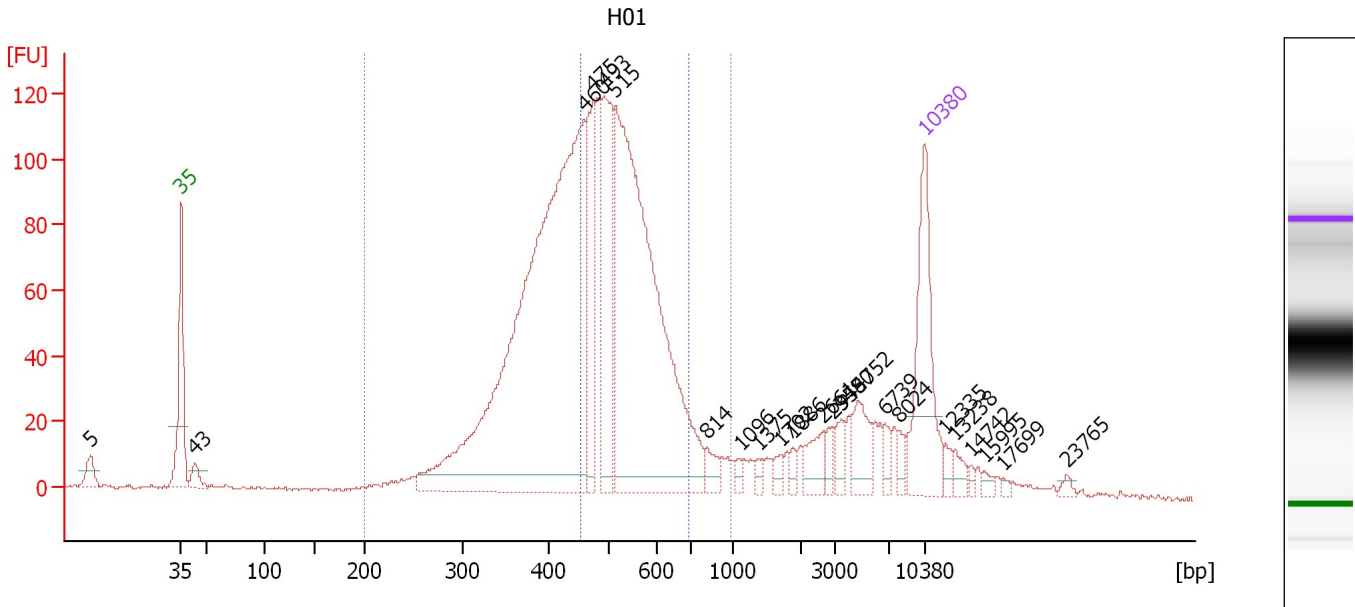
**Region table for sample 7 : G01**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	464	1,670.5	3,420.4	969.25	88	23.7
447	703	526	798.6	1,309.2	447.68	42	11.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
 Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : H01**

Number of peaks found: 23                      Corr. Area 1: 2,008.3  
 Noise: 0.4    Corr. Area 2: 1,042.1

**Peak table for sample 8 : H01**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	5	0.00	0.0		34.46
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	15.61	545.3		44.31
4	460	643.52	2,120.7		80.96
5	475	88.95	283.8		81.82
6	493	115.10	353.5		82.87
7	515	428.07	1,259.7		83.93
8	814	11.51	21.4		92.51
9	1,096	4.06	5.6		95.63
10	1,375	4.53	5.0		97.38
11	1,702	5.55	4.9		99.44
12	1,886	4.60	3.7		100.60
13	2,661	17.57	10.0		103.46
14	2,955	7.52	3.9		104.41
15	3,480	10.32	4.5		105.17
16	4,752	24.29	7.7		106.77
17	6,739	7.62	1.7		109.28
18	8,024	6.30	1.2		110.64
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,335	0.00	0.0		114.96
21	13,238	0.00	0.0		115.86
22	14,742	0.00	0.0		117.37
23	15,995	0.00	0.0		118.62
24	17,699	0.00	0.0		120.33
25	23,765	0.00	0.0		126.41

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
Modified: 8/10/2017 10:36:25 AM

**Electropherogram Summary Continued ...**

... Region table for sample 8 :

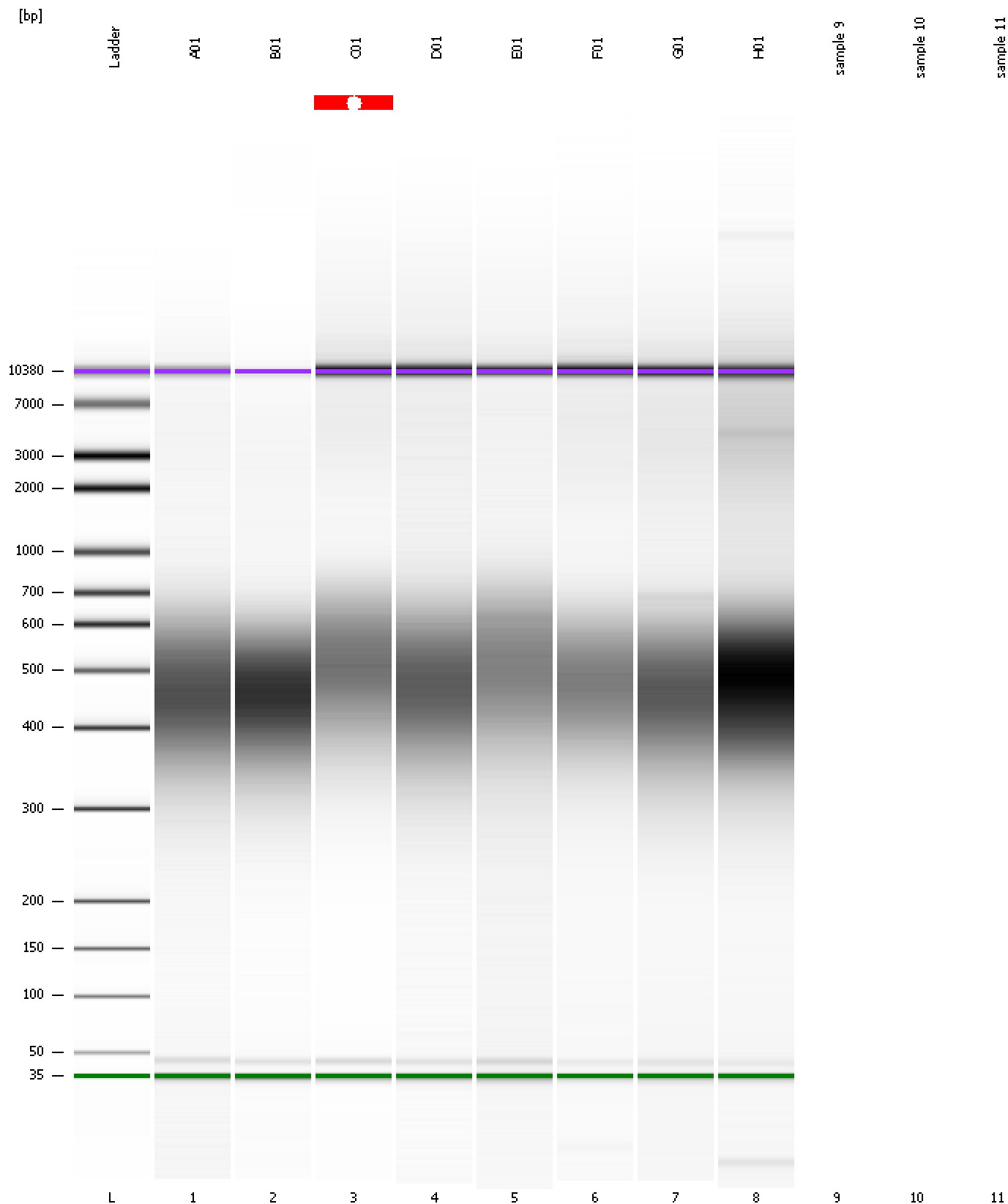
H01

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
199	980	479	2,008.3	4,720.6	1,388.16	84	23.0
453	696	533	1,042.1	2,017.7	699.36	44	10.9

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
Modified: 8/10/2017 10:36:25 AM

**Gel Image**



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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10\_002.xad

Created: 8/10/2017 10:01:39 AM  
Modified: 8/10/2017 10:36:25 AM

**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.