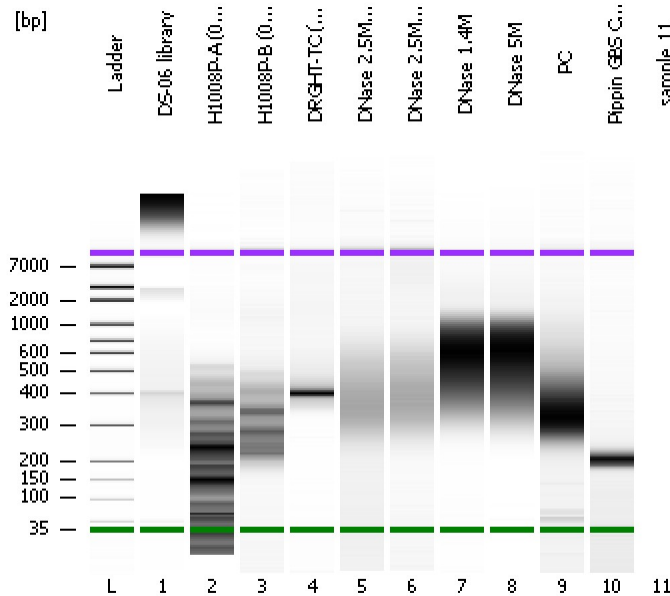


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
Modified: 7/26/2017 1:30:57 PM

Electrophoresis File Run Summary



Instrument Information:

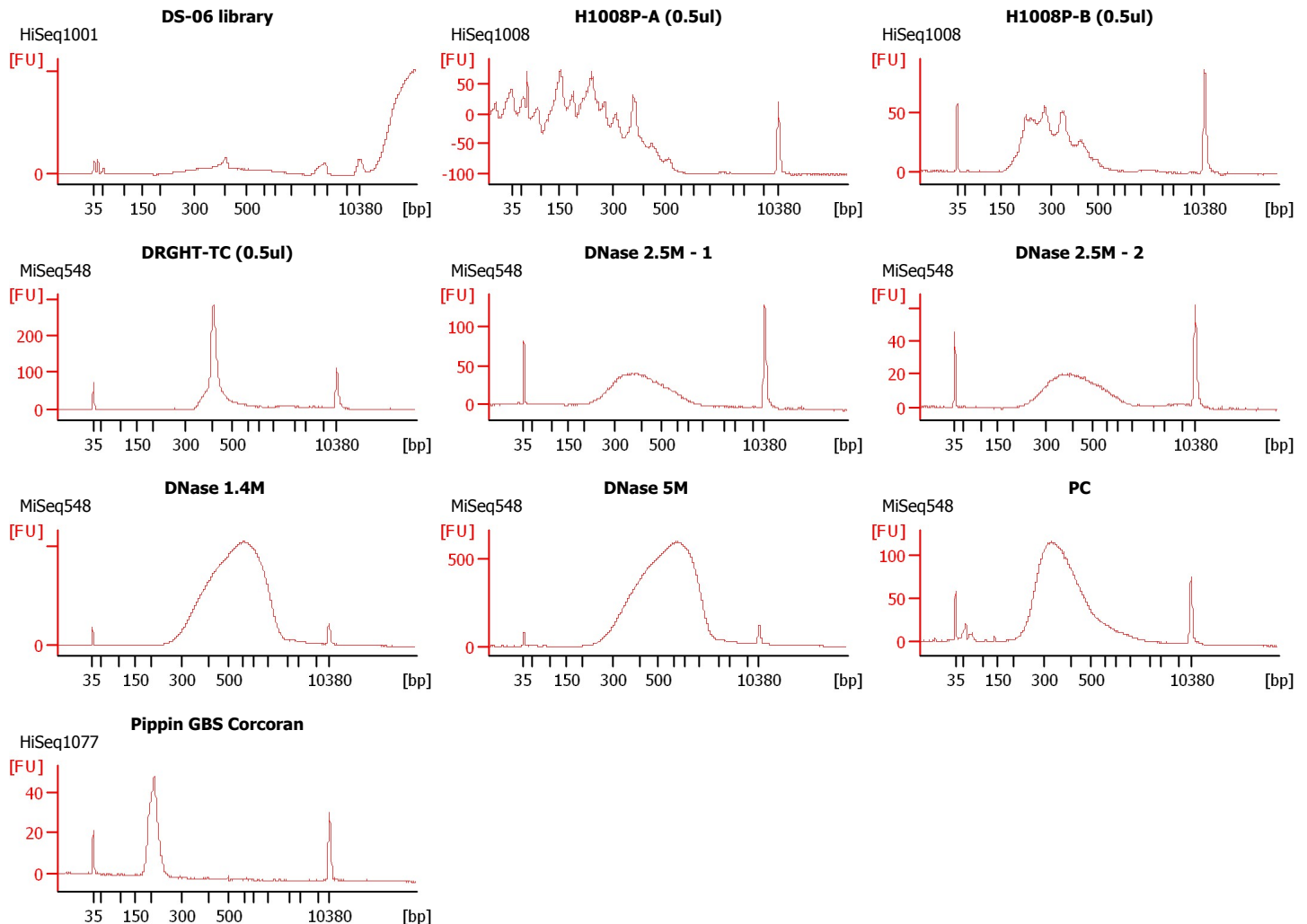
Instrument Name: DE13701086 Firmware: C.01.069  
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
Modified: 7/26/2017 1:30:57 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DS-06 library	HiSeq1001	<input type="checkbox"/>	✓			
H1008P-A (0.5ul)	HiSeq1008	<input type="checkbox"/>	✓			
H1008P-B (0.5ul)	HiSeq1008	<input type="checkbox"/>	✓			
DRGHT-TC (0.5ul)	MiSeq548	<input type="checkbox"/>	✓			
DNase 2.5M - 1	MiSeq548	<input type="checkbox"/>	✓			
DNase 2.5M - 2	MiSeq548	<input type="checkbox"/>	✓			
DNase 1.4M	MiSeq548	<input type="checkbox"/>	✓			
DNase 5M	MiSeq548	<input type="checkbox"/>	✓			
PC	MiSeq548	<input type="checkbox"/>	✓			
Pippin GBS Corcoran sample 11	HiSeq1077	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

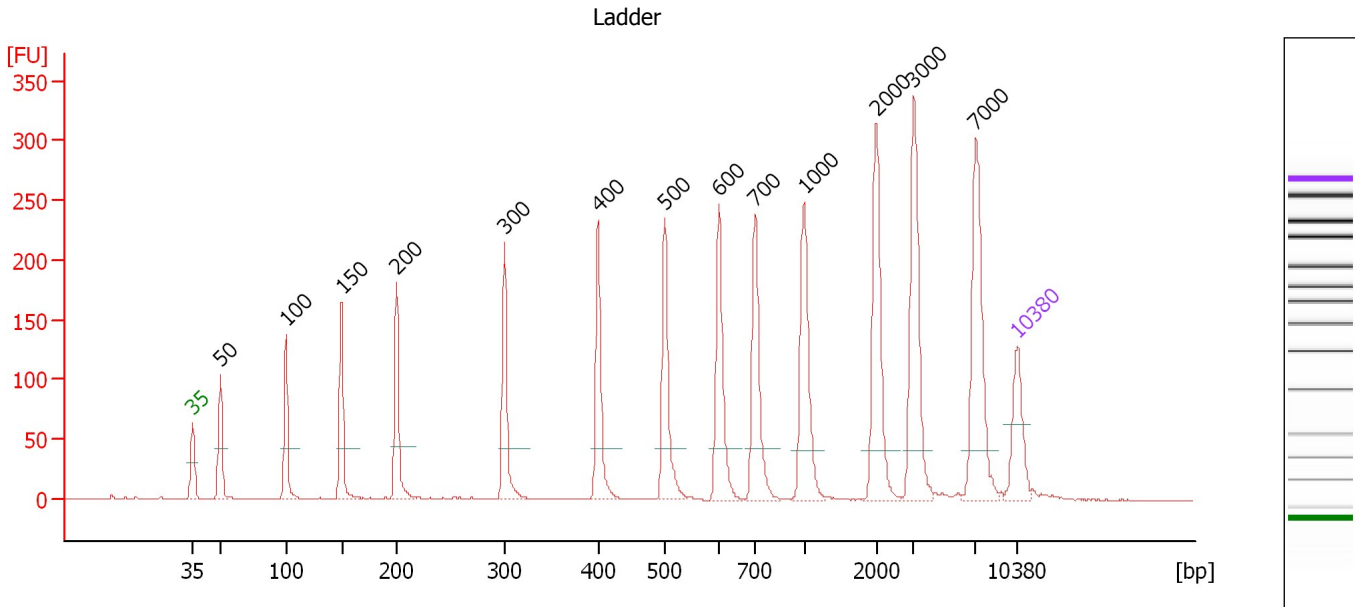
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

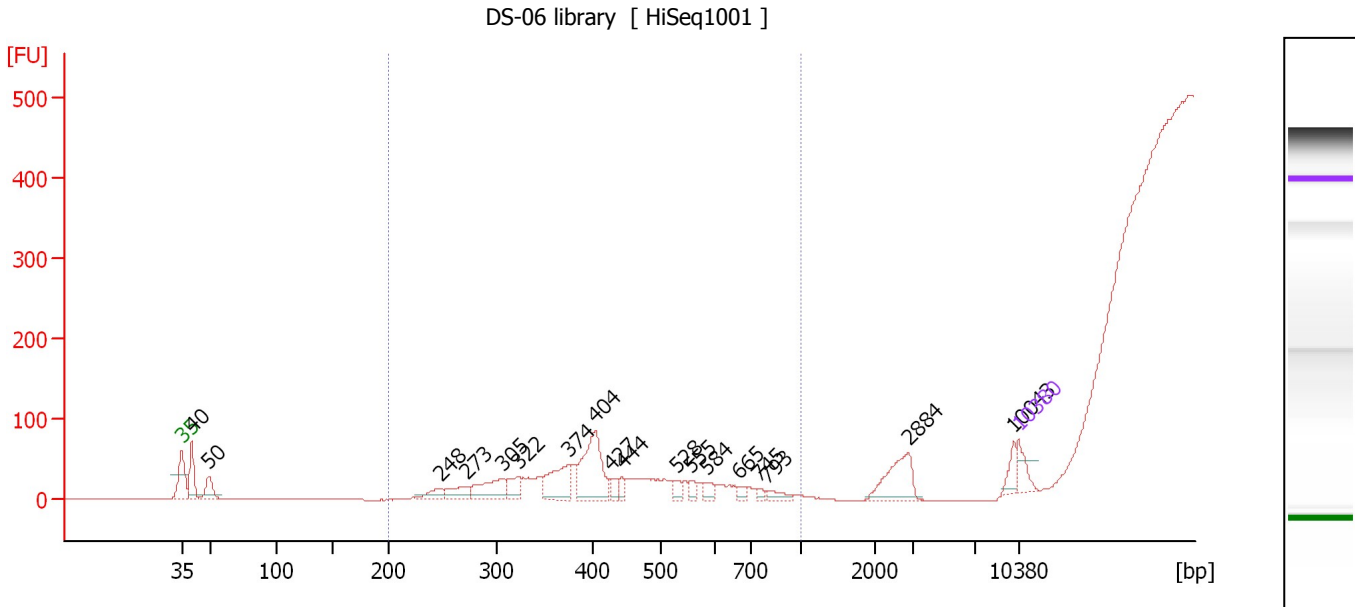
**Peak table for Ladder**

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.92
4	150	150.00	1,515.2	Ladder Peak	55.62
5	200	150.00	1,136.4	Ladder Peak	60.29
6	300	150.00	757.6	Ladder Peak	69.43
7	400	150.00	568.2	Ladder Peak	77.39
8	500	150.00	454.5	Ladder Peak	83.05
9	600	150.00	378.8	Ladder Peak	87.66
10	700	150.00	324.7	Ladder Peak	90.69
11	1,000	150.00	227.3	Ladder Peak	94.86
12	2,000	150.00	113.6	Ladder Peak	101.01
13	3,000	150.00	75.8	Ladder Peak	104.18
14	7,000	150.00	32.5	Ladder Peak	109.43
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : DS-06 library**

Number of peaks found: 18                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 1 : DS-06 library**

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	40	241.61	9,060.3		43.85
3	50	146.60	4,486.8		45.28
4	248	85.49	522.1		64.68
5	273	120.04	667.4		66.91
6	305	227.10	1,128.7		69.81
7	322	109.18	514.2		71.15
8	374	258.23	1,045.2		75.35
9	404	425.88	1,596.8		77.62
10	427	49.27	174.8		78.91
11	444	42.45	145.0		79.85
12	528	42.17	120.9		84.36
13	555	41.39	112.9		85.61
14	584	42.28	109.8		86.90
15	665	29.90	68.1		89.62
16	745	22.60	46.0		91.32
17	793	43.90	83.8		91.99
18	2,884	210.55	110.6		103.81
19	10,043	56.76	8.6		112.64
20	10,380	75.00	10.9	Upper Marker	113.00

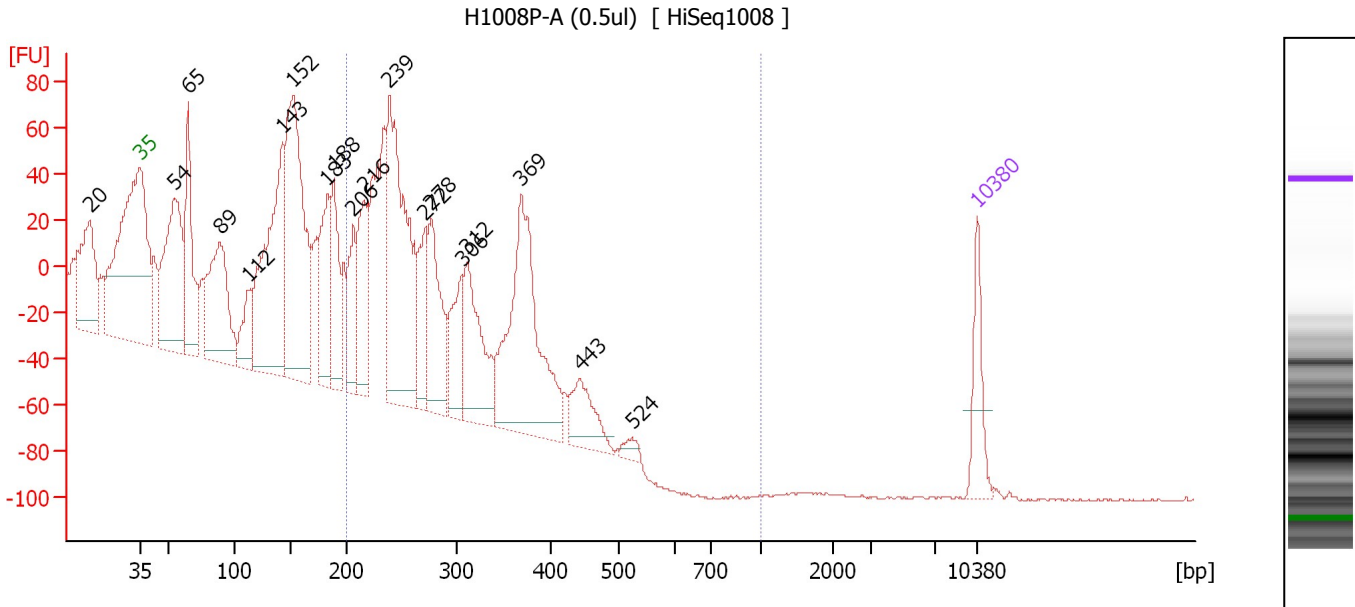
**Region table for sample 1 : DS-06 library**

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	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : H1008P-A (0.5ul)**

Number of peaks found: 19                      Corr. Area 1: 999.9  
 Noise: 0.4

**Peak table for sample 2 : H1008P-A (0.5ul)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	20	0.00	0.0		38.82
2	35	125.00	5,411.3	Lower Marker	43.00
3	54	474.01	13,190.6		45.85
4	65	301.51	7,002.2		47.05
5	89	385.96	6,583.2		49.68
6	112	109.37	1,481.5		52.03
7	143	554.22	5,889.4		54.93
8	152	693.22	6,907.5		55.82
9	183	228.01	1,891.8		58.66
10	188	191.95	1,544.2		59.20
11	206	140.83	1,035.2		60.84
12	216	200.95	1,410.5		61.73
13	239	598.75	3,792.2		63.87
14	272	136.33	759.8		66.85
15	278	229.02	1,249.6		67.39
16	306	131.23	649.2		69.92
17	312	230.60	1,120.4		70.37
18	369	498.50	2,047.8		74.91
19	443	105.92	362.5		79.80
20	524	17.80	51.4		84.16
21	10,380	75.00	10.9	Upper Marker	113.00

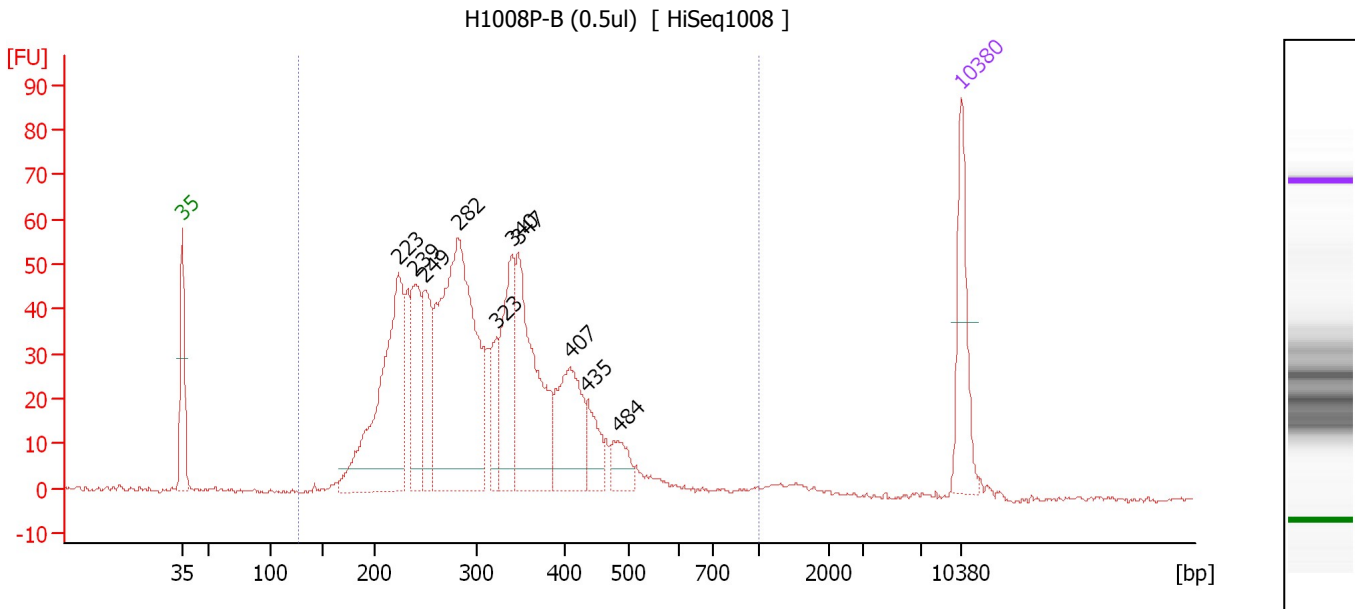
**Region table for sample 2 : H1008P-A (0.5ul)**

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	272	999.9	7,532.2	1,294.35	50	19.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : H1008P-B (0.5ul)**

Number of peaks found: 10                      Corr. Area 1: 1,201.0  
 Noise: 0.4

**Peak table for sample 3 : H1008P-B (0.5ul)**

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	223	341.45	2,319.5		62.39
3	239	114.71	726.4		63.88
4	249	117.55	716.1		64.74
5	282	488.99	2,630.0		67.75
6	323	54.72	256.8		71.25
7	340	133.40	594.9		72.59
8	347	222.74	972.7		73.16
9	407	126.05	468.8		77.81
10	435	43.29	150.7		79.39
11	484	33.99	106.3		82.17
12	10,380	75.00	10.9	Upper Marker	113.00

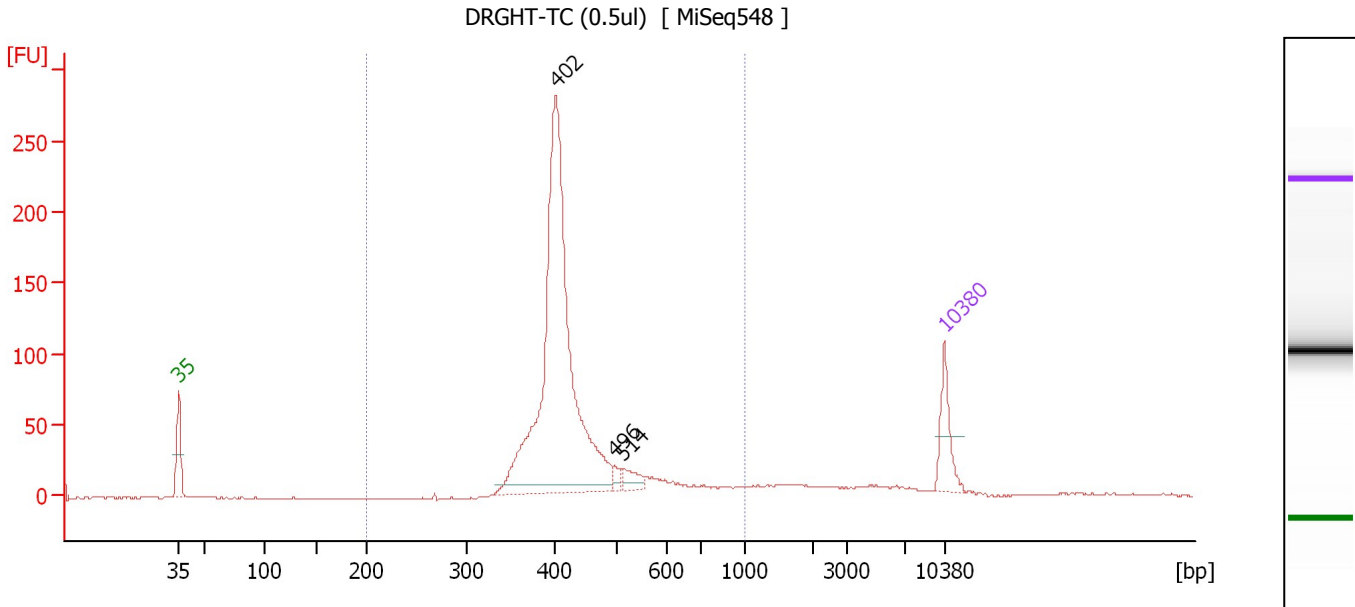
**Region table for sample 3 : H1008P-B (0.5ul)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
128	1,000	315	1,201.0	9,778.5	1,842.12	98	29.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : DRGHT-TC (0.5ul)**

Number of peaks found: 3                      Corr. Area 1: 1,195.8  
 Noise: 0.4

**Peak table for sample 4 : DRGHT-TC (0.5ul)**

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	402	1,192.33	4,491.9		77.51
3	496	18.38	56.1		82.83
4	514	32.72	96.4		83.70
5	10,380	75.00	10.9	Upper Marker	113.00

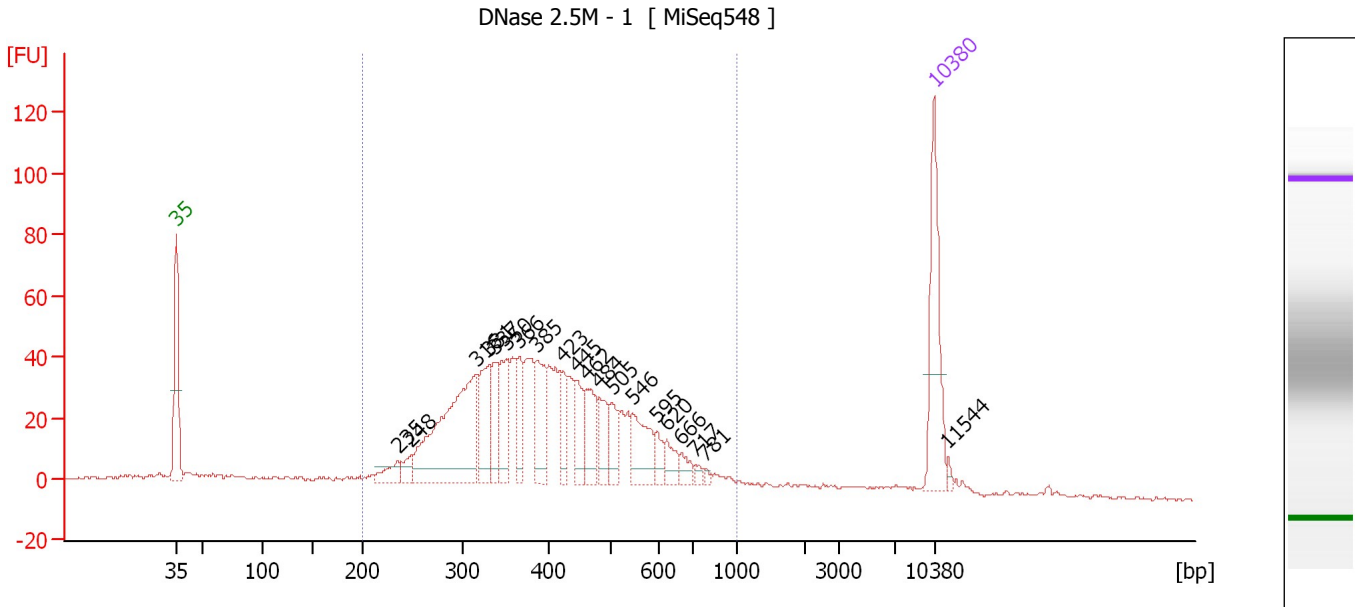
**Region table for sample 4 : DRGHT-TC (0.5ul)**

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	439	1,195.8	5,140.3	1,434.69	89	21.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : DNase 2.5M - 1**

Number of peaks found: 20                      Corr. Area 1: 1,059.6  
 Noise: 0.5

**Peak table for sample 5 : DNase 2.5M - 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	235	20.58	133.0		63.44
3	248	15.05	91.9		64.67
4	316	212.93	1,019.5		70.73
5	331	64.63	295.6		71.92
6	337	40.78	183.1		72.41
7	350	51.72	223.6		73.44
8	366	39.38	163.1		74.67
9	385	57.48	226.2		76.20
10	423	29.79	106.6		78.71
11	445	36.19	123.1		79.95
12	462	42.51	139.5		80.88
13	484	31.35	98.2		82.11
14	505	28.57	85.6		83.30
15	546	48.24	133.9		85.17
16	595	14.49	36.9		87.43
17	620	16.38	40.0		88.27
18	666	12.03	27.4		89.65
19	717	5.18	10.9		90.93
20	781	3.27	6.3		91.82
21	10,380	75.00	10.9	Upper Marker	113.00
22	11,544	0.00	0.0		114.23



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
Modified: 7/26/2017 1:30:57 PM

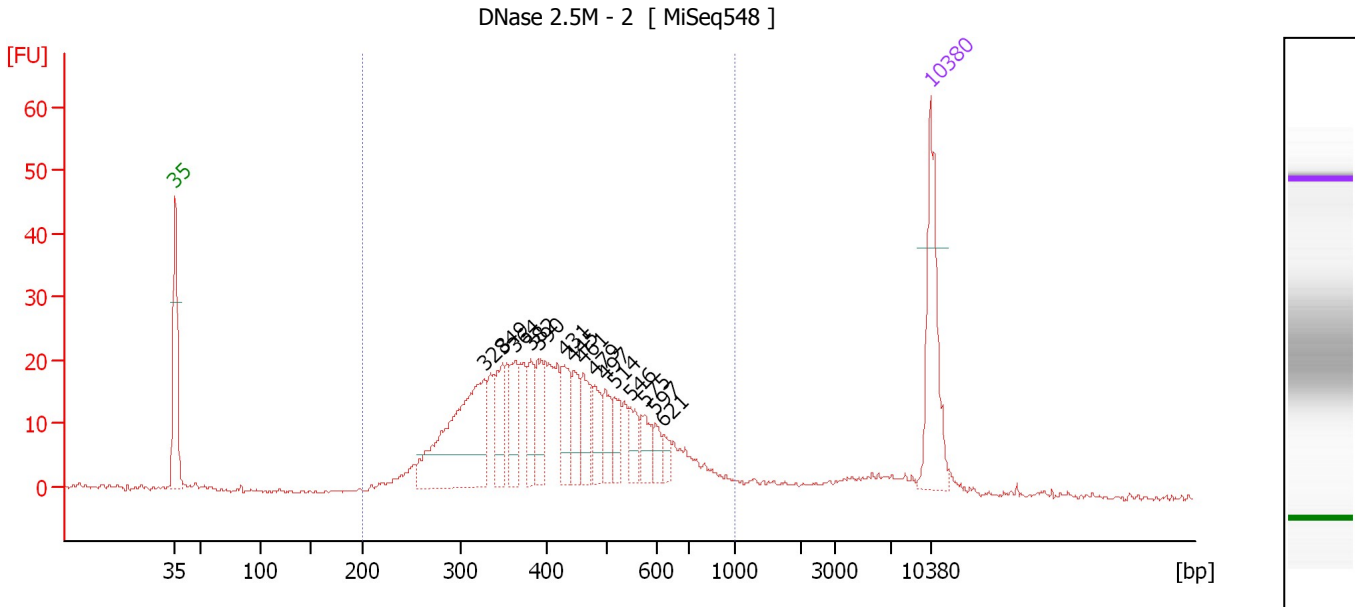
**Electropherogram Summary Continued ...****... Region table for sample 5 : DNase 2.5M - 1**

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	417	1,059.6	4,460.8	■ 1,095.77	88	30.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : DNase 2.5M - 2**

Number of peaks found: 15                      Corr. Area 1: 501.4  
 Noise: 0.3

**Peak table for sample 6 : DNase 2.5M - 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	328	193.19	893.5		71.62
3	349	45.56	197.6		73.35
4	364	39.08	162.8		74.49
5	382	32.66	129.5		75.97
6	390	38.98	151.3		76.62
7	431	41.45	145.8		79.14
8	445	33.08	112.7		79.93
9	461	38.11	125.4		80.82
10	479	27.29	86.3		81.86
11	497	25.69	78.3		82.89
12	514	22.10	65.2		83.69
13	546	23.68	65.7		85.17
14	575	19.73	52.0		86.50
15	597	13.28	33.7		87.54
16	621	9.56	23.3		88.28
17	10,380	75.00	10.9	Upper Marker	113.00

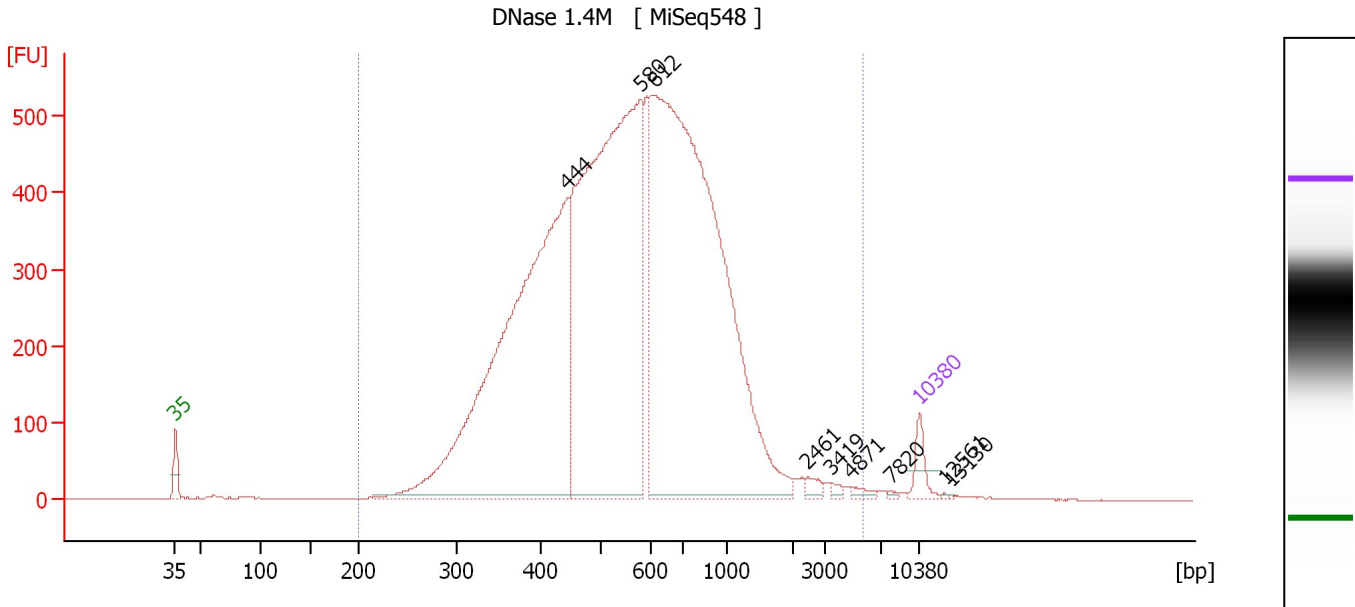
**Region table for sample 6 : DNase 2.5M - 2**

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	434	501.4	3,565.0	919.11	93	29.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : DNase 1.4M**

Number of peaks found: 9                      Corr. Area 1: 12,492.3  
 Noise: 0.4

**Peak table for sample 7 : DNase 1.4M**

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	444	3,524.94	12,015.6		79.91
3	580	3,497.19	9,140.1		86.72
4	612	4,296.99	10,635.8		88.03
5	2,461	32.08	19.8		102.47
6	3,419	15.78	7.0		104.73
7	4,871	22.46	7.0		106.63
8	7,820	7.19	1.4		110.29
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,561	0.00	0.0		115.31
11	13,130	0.00	0.0		115.91

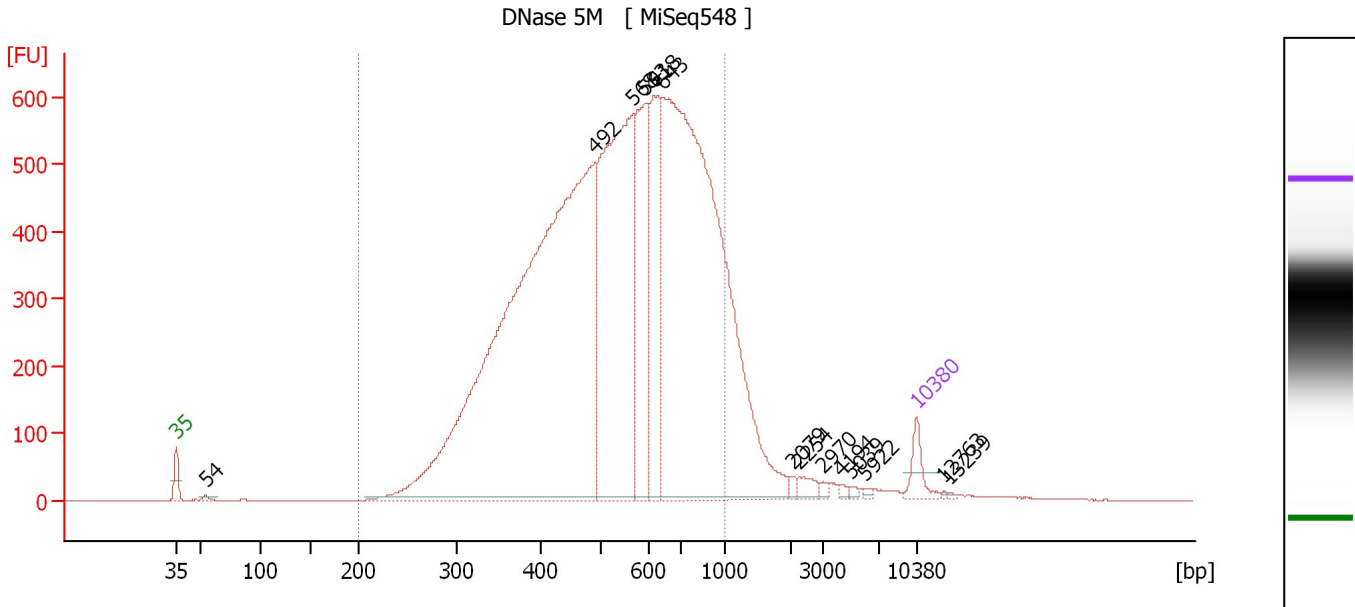
**Region table for sample 7 : DNase 1.4M**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	5,710	649	12,492.3	35,887.6	12,169.46	99	65.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
 Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : DNase 5M**

Number of peaks found: 14                      Corr. Area 1: 13,595.7  
 Noise: 0.4

**Peak table for sample 8 : DNase 5M**

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	54	16.54	466.1		45.77
3	492	4,991.99	15,363.0		82.61
4	568	1,815.52	4,841.9		86.19
5	593	756.31	1,931.7		87.35
6	618	603.65	1,480.1		88.21
7	643	3,657.63	8,620.1		88.96
8	2,079	17.38	12.7		101.26
9	2,254	40.12	27.0		101.81
10	2,970	14.17	7.2		104.08
11	4,194	12.63	4.6		105.74
12	5,039	9.36	2.8		106.85
13	5,922	8.66	2.2		108.01
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,763	0.00	0.0		115.52
16	13,239	0.00	0.0		116.02

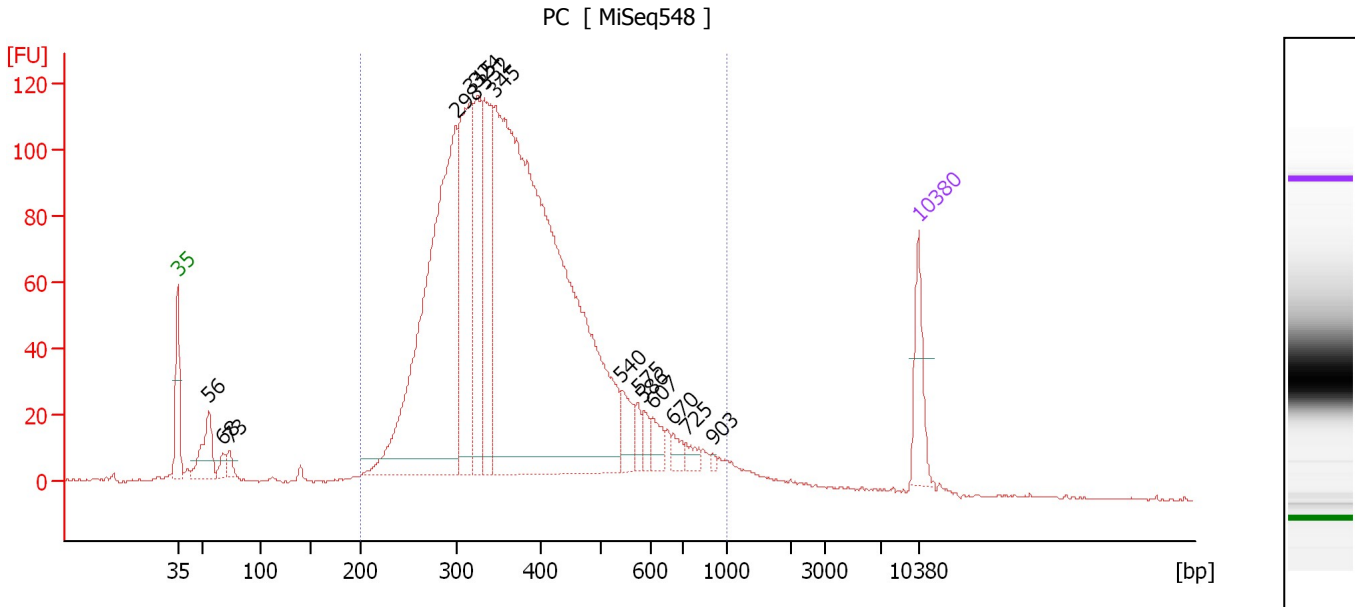
**Region table for sample 8 : DNase 5M**

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	556	13,595.6	36,219.7	11,629.67	92	30.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : PC**

Number of peaks found: 15                      Corr. Area 1: 2,471.3  
 Noise: 0.4

**Peak table for sample 9 : PC**

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	56	122.86	3,350.9		45.97
3	68	26.34	589.0		47.33
4	73	26.48	548.1		47.94
5	298	1,068.83	5,425.3		69.29
6	315	399.73	1,920.6		70.65
7	324	249.34	1,165.3		71.35
8	332	317.60	1,447.6		72.01
9	345	2,127.05	9,339.6		73.01
10	540	61.19	171.6		84.90
11	575	24.31	64.0		86.51
12	586	24.82	64.2		87.01
13	607	36.36	90.8		87.87
14	670	20.88	47.2		89.78
15	725	19.84	41.4		91.04
16	903	5.01	8.4		93.51
17	10,380	75.00	10.9	Upper Marker	113.00

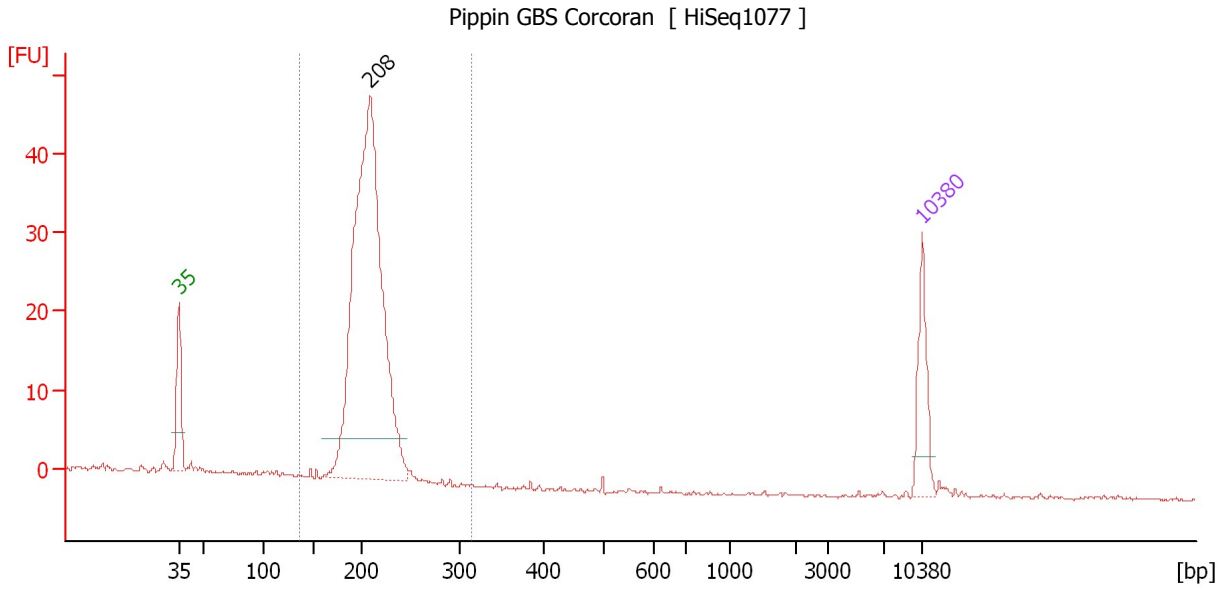
**Region table for sample 9 : PC**

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	387	2,471.3	20,207.8	4,670.82	93	31.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
Modified: 7/26/2017 1:30:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Pippin GBS Corcoran**

Number of peaks found: 1      Corr. Area 1: 244.1  
Noise: 0.2

**Peak table for sample 10 : Pippin GBS Corcoran**

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	208	1,212.60	8,851.3		60.98
3	10,380	75.00	10.9	Upper Marker	113.00

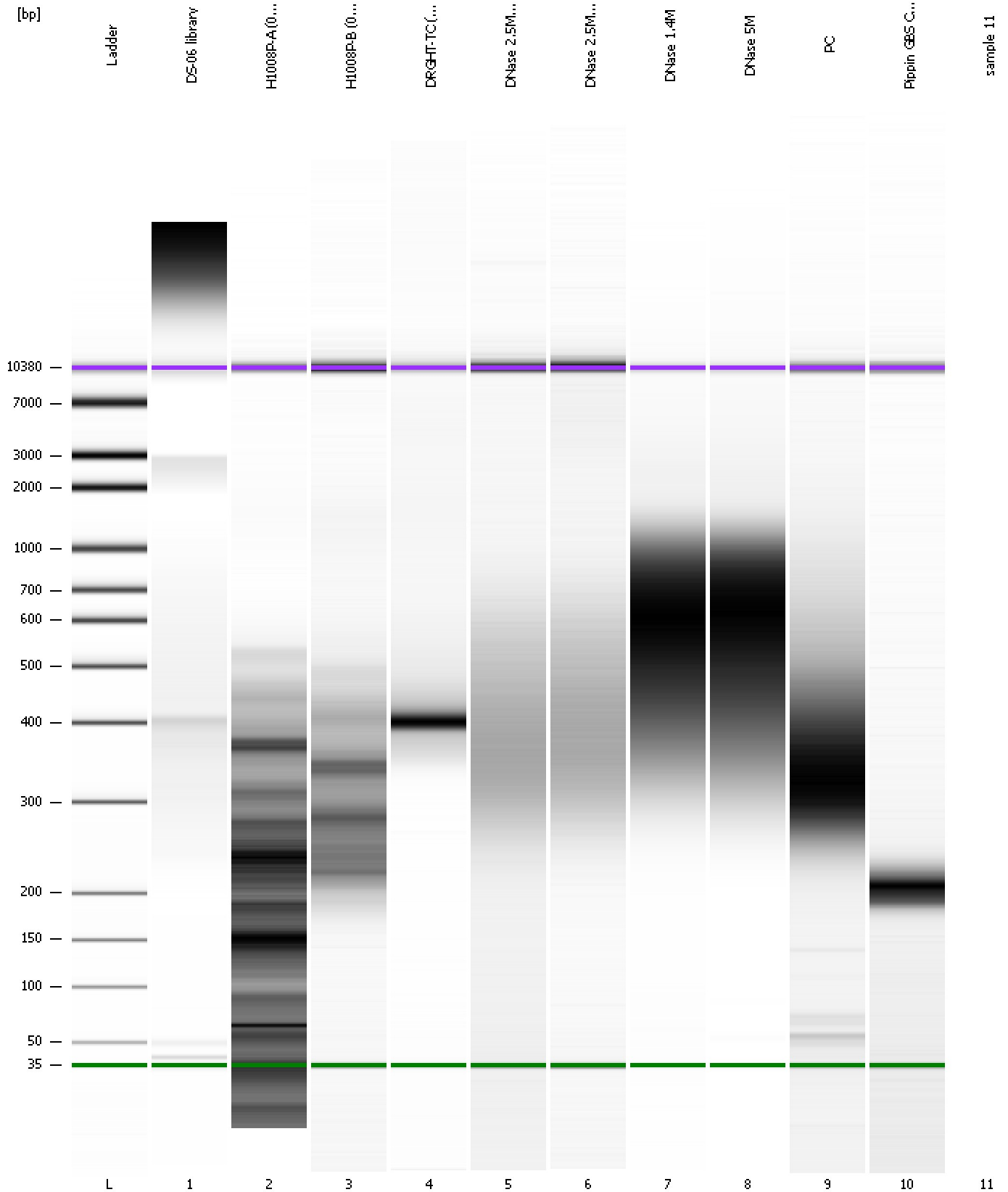
**Region table for sample 10 : Pippin GBS Corcoran**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
137	315	206	244.1	8,928.9	1,208.51	97	6.9

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
Modified: 7/26/2017 1:30:57 PM

**Gel Image**

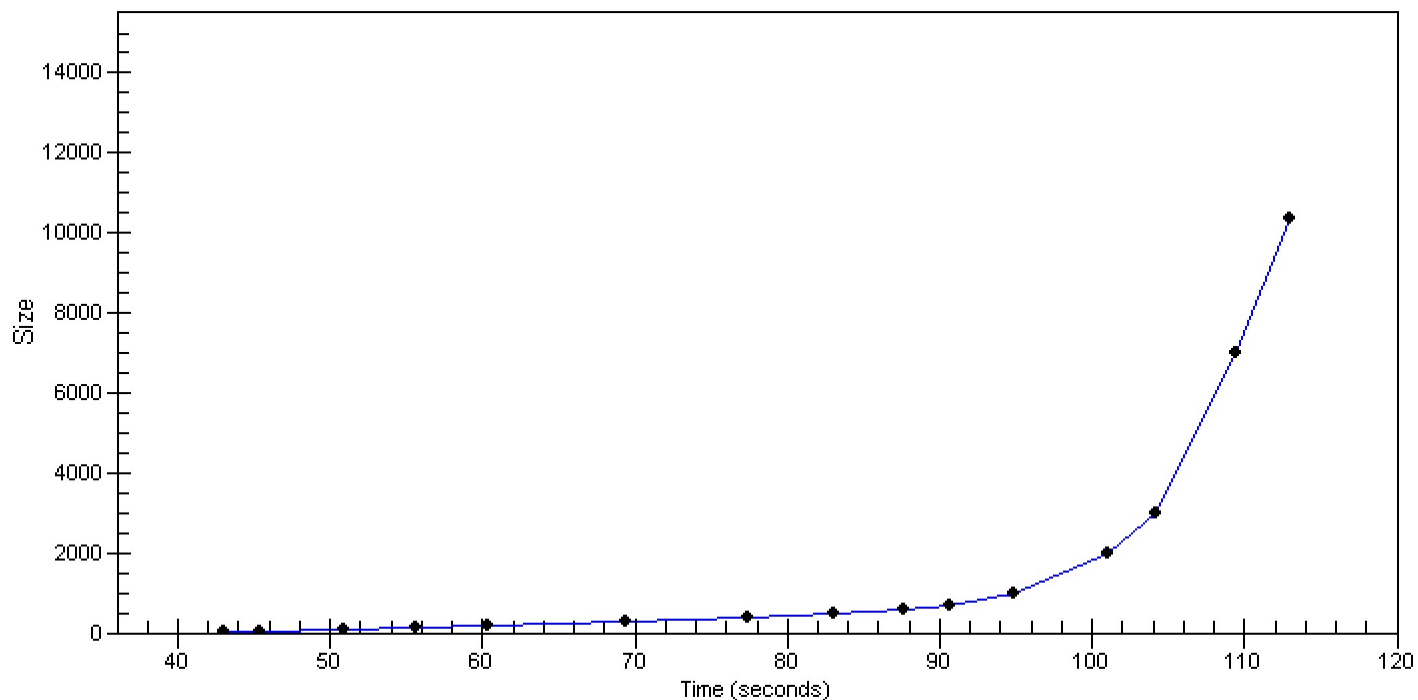


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
Modified: 7/26/2017 1:30:57 PM

**Curves**

**Standard Curve**





Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-26\2017-07-26\_002.xad

Created: 7/26/2017 12:45:01 PM  
Modified: 7/26/2017 1:30:57 PM

**Invalid Samples**

Sample 11 has not been run, no results available.