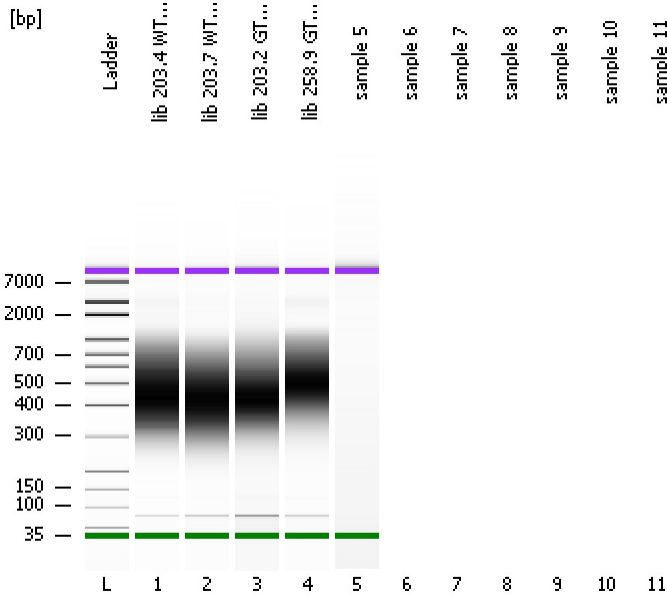


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

Created: 8/27/2015 2:03:26 PM  
Modified: 8/27/2015 2:27:36 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

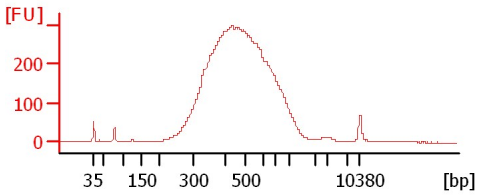
Assay Information:

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

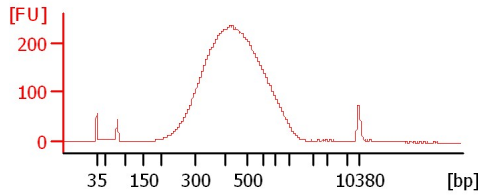
Chip Information:

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

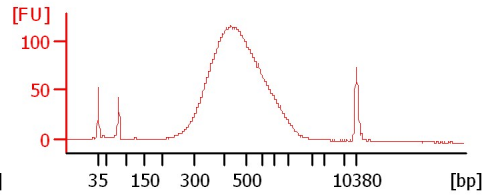
lib 203.4 WT index 3



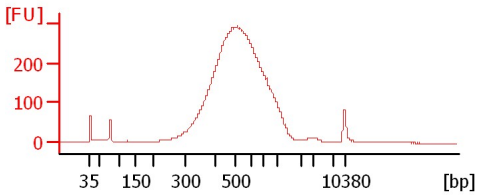
lib 203.7 WT index 8



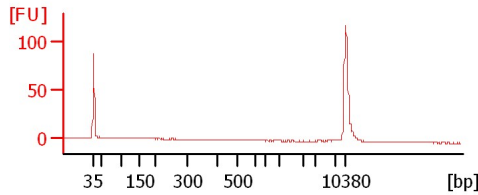
lib 203.2 GT index 9



lib 258.9 GT index 10



sample 5



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

Created: 8/27/2015 2:03:26 PM  
Modified: 8/27/2015 2:27:36 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lib 203.4 WT index 3		<input type="checkbox"/>	✓			
lib 203.7 WT index 8		<input type="checkbox"/>	✓			
lib 203.2 GT index 9		<input type="checkbox"/>	✓			
lib 258.9 GT index 10		<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:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

Created: 8/27/2015 2:03:26 PM  
Modified: 8/27/2015 2:27:36 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

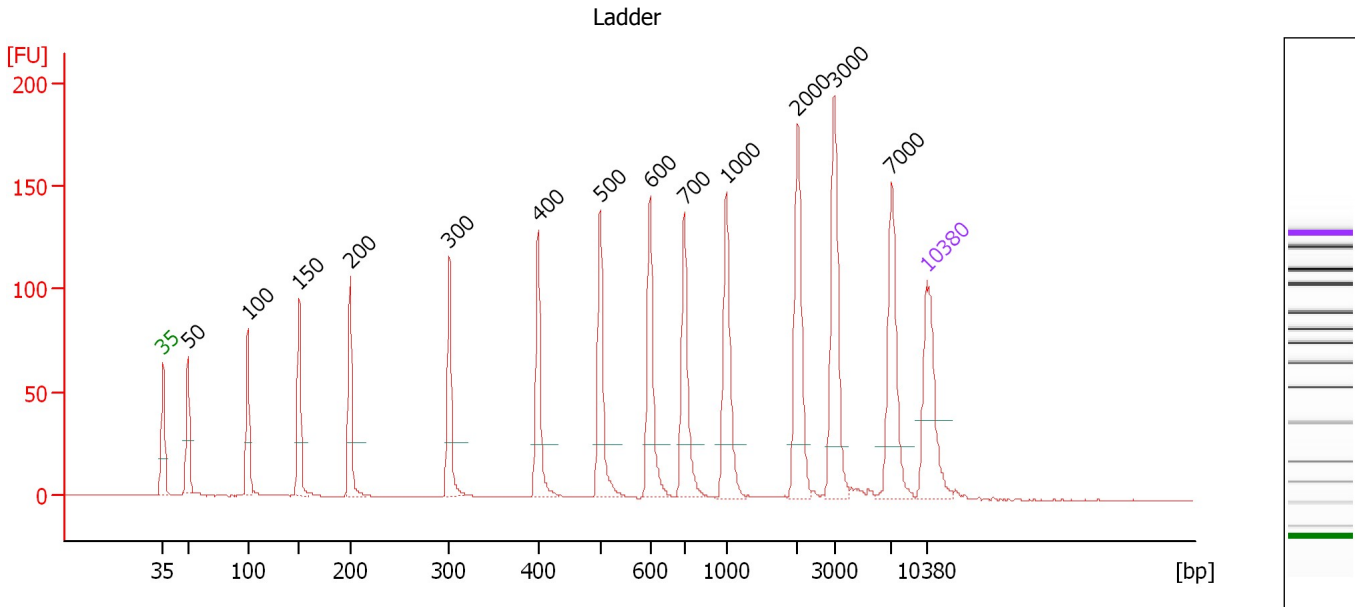
**Ladder**

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:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

Created: 8/27/2015 2:03:26 PM  
 Modified: 8/27/2015 2:27:36 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

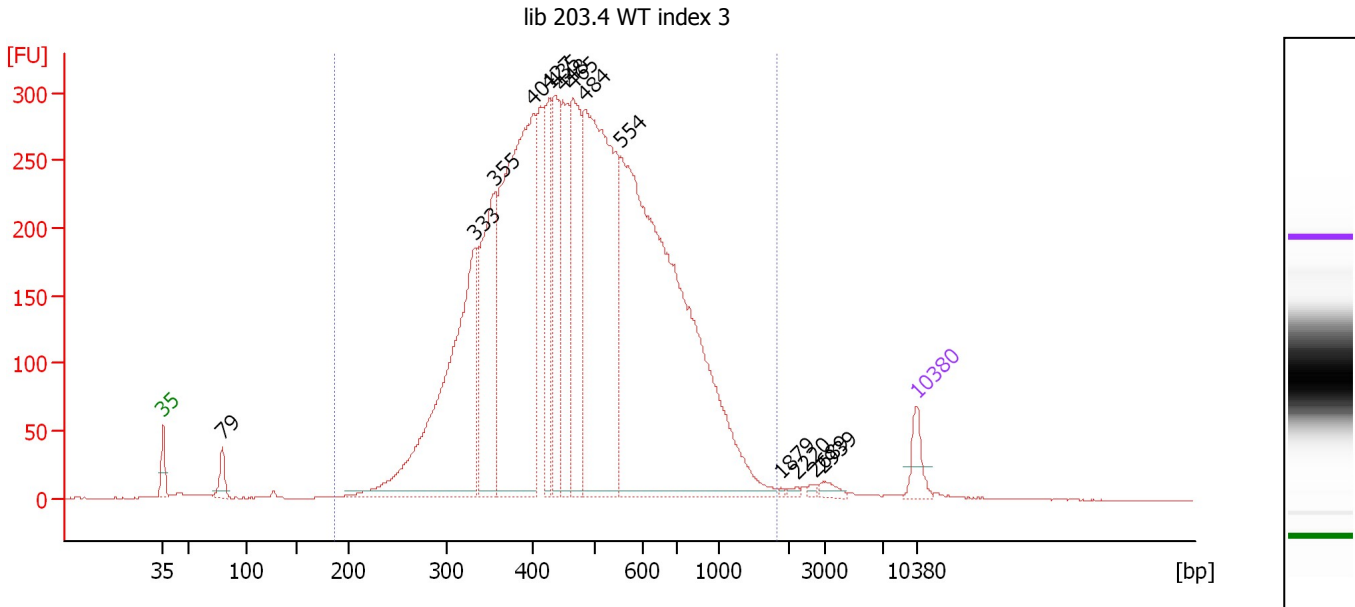
**Peak table for Ladder**

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.77
4	150	150.00	1,515.2	Ladder Peak	55.47
5	200	150.00	1,136.4	Ladder Peak	60.16
6	300	150.00	757.6	Ladder Peak	69.25
7	400	150.00	568.2	Ladder Peak	77.36
8	500	150.00	454.5	Ladder Peak	83.08
9	600	150.00	378.8	Ladder Peak	87.63
10	700	150.00	324.7	Ladder Peak	90.76
11	1,000	150.00	227.3	Ladder Peak	94.62
12	2,000	150.00	113.6	Ladder Peak	101.17
13	3,000	150.00	75.8	Ladder Peak	104.54
14	7,000	150.00	32.5	Ladder Peak	109.82
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

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 Modified: 8/27/2015 2:27:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : lib 203.4 WT index 3**

Number of peaks found: 14                      Corr. Area 1: 7,584.1  
 Noise: 0.2

**Peak table for sample 1 : lib 203.4 WT index 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	79	100.86	1,929.5		48.50
3	333	1,537.49	6,987.1		71.96
4	355	814.05	3,470.8		73.74
5	401	1,975.19	7,468.3		77.41
6	427	420.69	1,493.9		78.89
7	435	512.00	1,781.9		79.39
8	448	471.63	1,593.9		80.13
9	465	666.40	2,172.4		81.07
10	484	1,864.27	5,838.2		82.16
11	554	3,158.08	8,641.9		85.52
12	1,879	5.80	4.7		100.38
13	2,220	11.06	7.5		101.91
14	2,689	9.75	5.5		103.50
15	2,939	27.21	14.0		104.34
16	10,380	75.00	10.9	Upper Marker	113.00

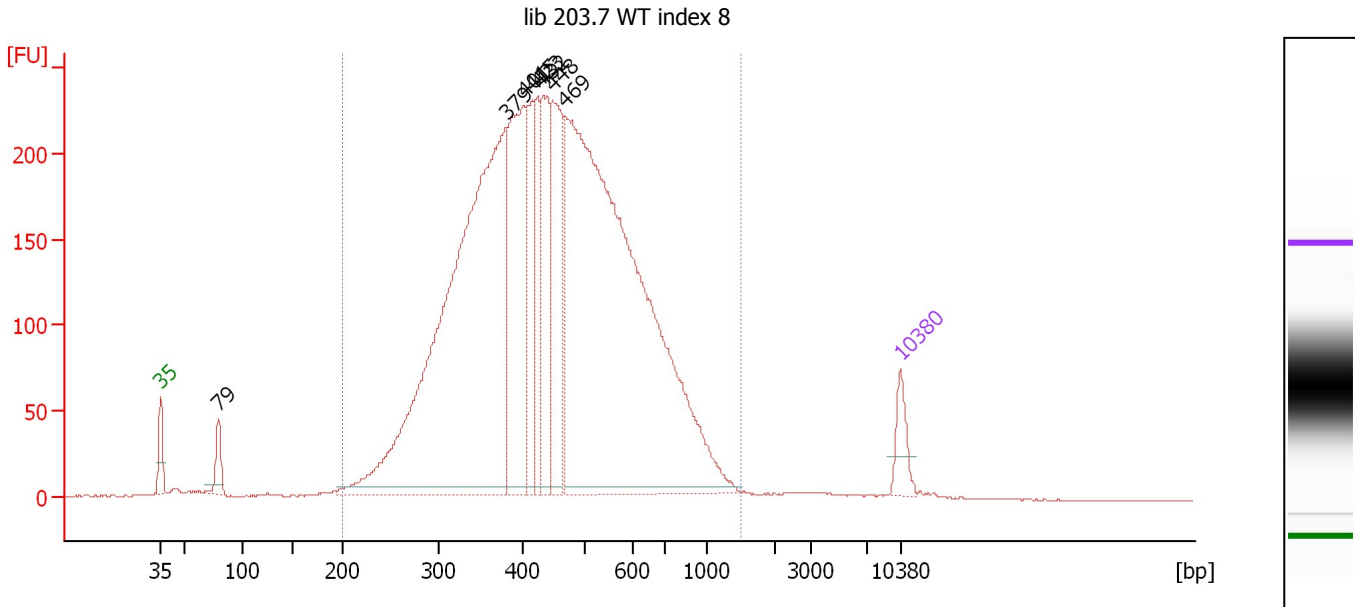
**Region table for sample 1 : lib 203.4 WT index 3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
187	508	1,819	7,584.1	41,709.5	97	38.4	12,080.94

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : lib 203.7 WT index 8**

Number of peaks found: 8                      Corr. Area 1: 5,831.0  
 Noise: 0.3

**Peak table for sample 2 : lib 203.7 WT index 8**

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	79	107.30	2,052.1		48.50
3	379	2,779.94	11,106.4		75.68
4	401	786.72	2,976.0		77.39
5	415	280.89	1,026.4		78.20
6	423	282.00	1,009.0		78.71
7	432	409.59	1,435.6		79.21
8	448	479.62	1,621.6		80.12
9	469	3,230.12	10,428.3		81.33
10	10,380	75.00	10.9	Upper Marker	113.00

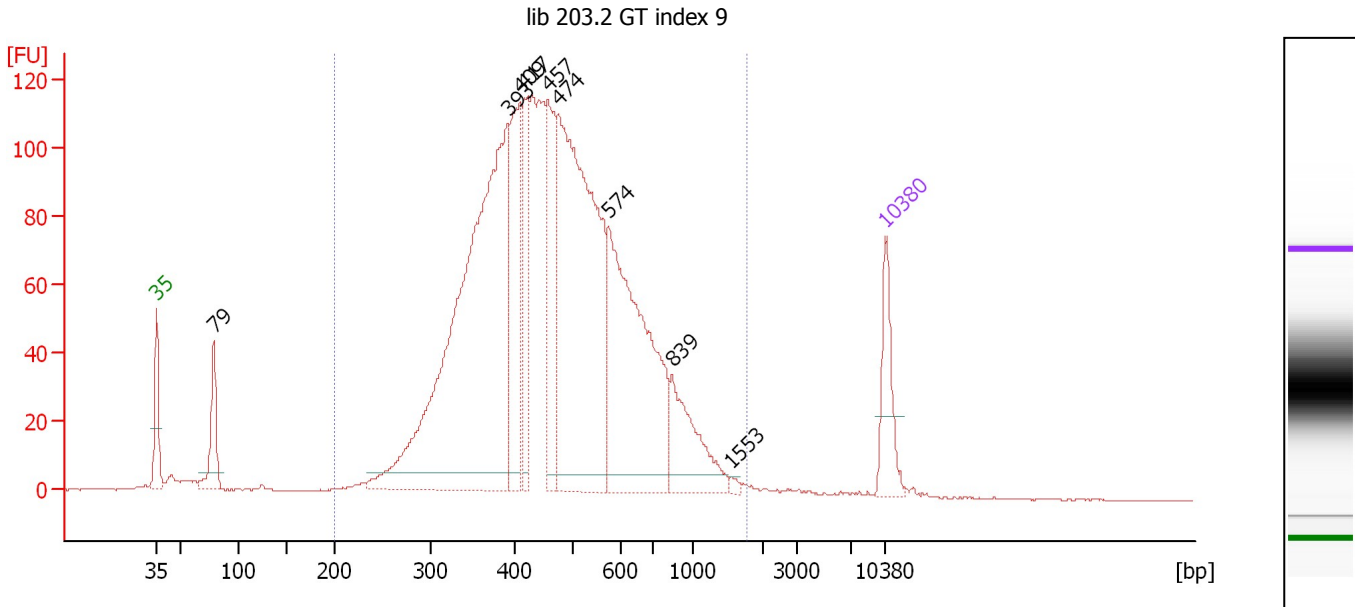
**Region table for sample 2 : lib 203.7 WT index 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	468	1,509	5,831.0	31,136.3	97	33.3	8,483.14

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

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 Modified: 8/27/2015 2:27:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : lib 203.2 GT index 9**

Number of peaks found: 9                      Corr. Area 1: 2,541.8  
 Noise: 0.2

**Peak table for sample 3 : lib 203.2 GT index 9**

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	79	121.25	2,322.7		48.48
3	393	1,123.68	4,335.8		76.77
4	409	237.15	877.9		77.90
5	417	143.58	521.2		78.36
6	457	209.38	694.5		80.61
7	474	820.30	2,623.0		81.59
8	574	506.67	1,337.0		86.46
9	839	141.50	255.4		92.55
10	1,553	5.36	5.2		98.24
11	10,380	75.00	10.9	Upper Marker	113.00

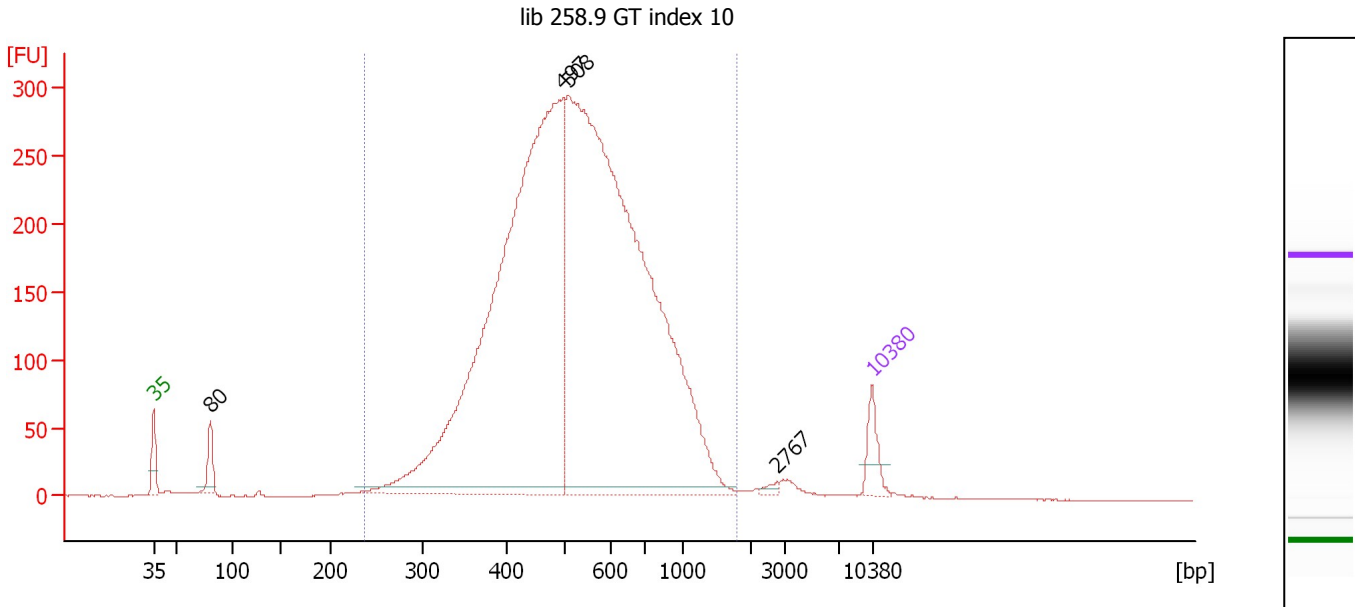
**Region table for sample 3 : lib 203.2 GT index 9**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	495	1,771	2,541.8	12,802.4	96	36.8	3,689.19

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

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 Modified: 8/27/2015 2:27:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : lib 258.9 GT index 10**

Number of peaks found: 4                      Corr. Area 1: 5,941.3  
 Noise: 0.2

**Peak table for sample 4 : lib 258.9 GT index 10**

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	80	116.34	2,210.0		48.56
3	497	3,543.02	10,793.3		82.93
4	508	4,053.97	12,088.6		83.45
5	2,767	12.47	6.8		103.76
6	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : lib 258.9 GT index 10**

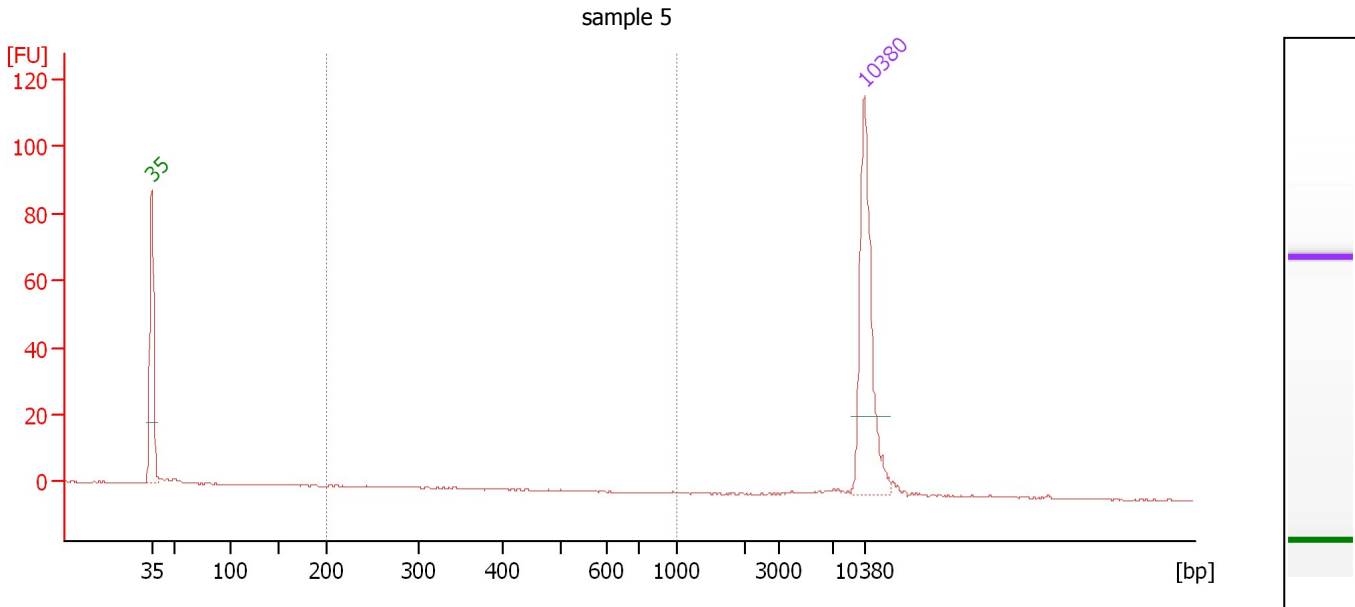
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
237	560	1,788	5,941.3	23,364.4	96	35.8	7,596.26



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

Created: 8/27/2015 2:03:26 PM  
 Modified: 8/27/2015 2:27:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5**

Number of peaks found: 0                      Corr. Area 1: 2.7  
 Noise: 0.2

**Peak table for sample 5 : sample 5**

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	10,380	75.00	10.9	Upper Marker	113.00

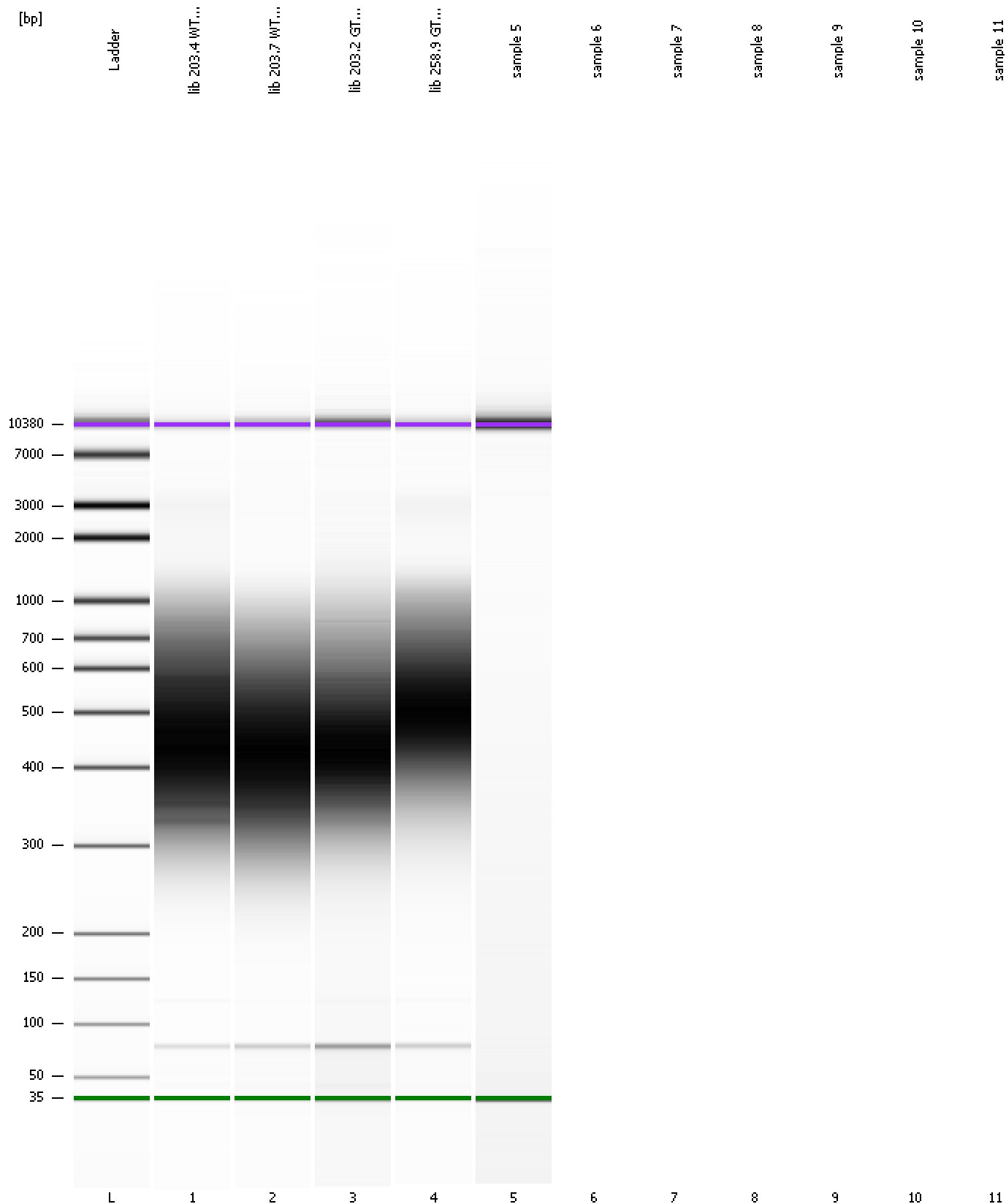
**Region table for sample 5 : sample 5**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	314	1,000	2.7	12.7	10	36.0	2.38

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

Created: 8/27/2015 2:03:26 PM  
Modified: 8/27/2015 2:27:36 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-27\2015-08-27\_002.xad

Created: 8/27/2015 2:03:26 PM  
Modified: 8/27/2015 2:27:36 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.