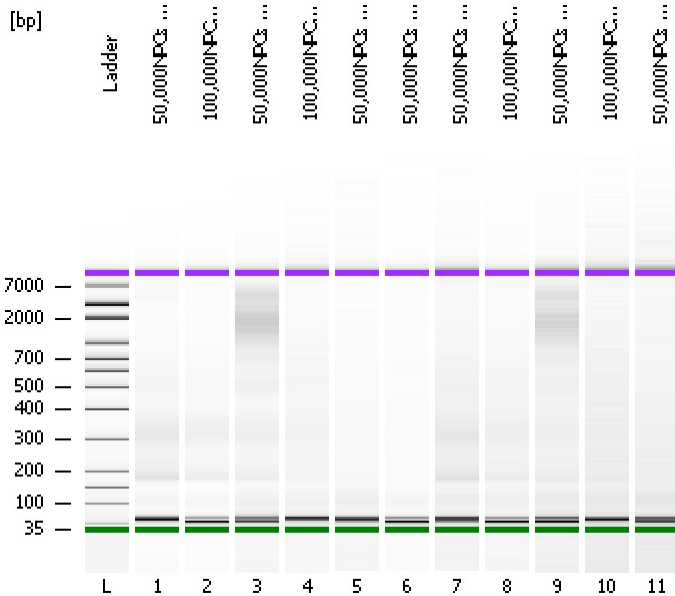


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
Modified: 5/13/2015 11:55:13 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

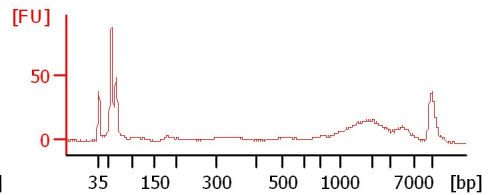
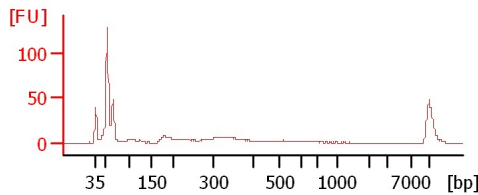
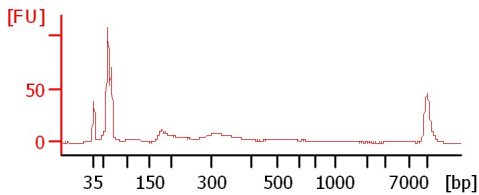
Chip Information:

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

50,000NPCs 1ul Tn5 2ng

100,000NPCs 1ul Tn5 2ng

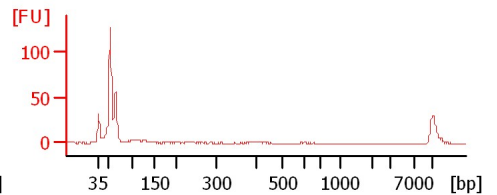
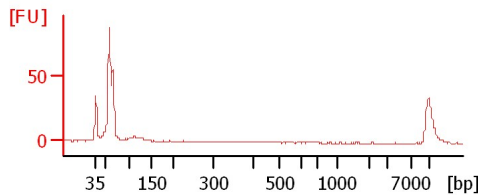
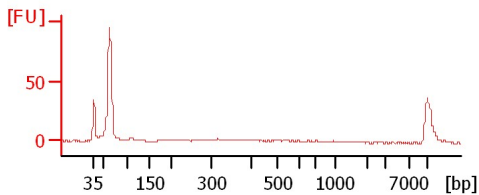
50,000NPCs 2.5ul Tn5 2ng



100,000NPCs 2.5ul Tn5 2ng

50,000NPCs NE 2ng

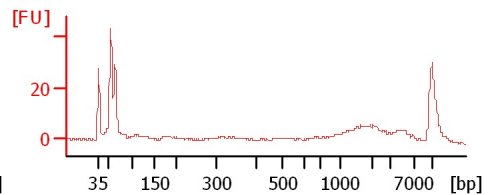
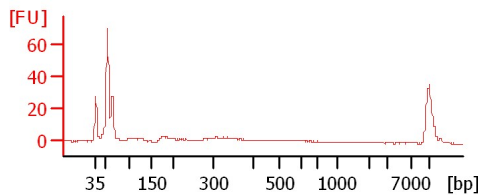
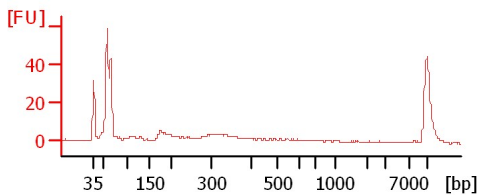
50,000NPCs NE 2ng



50,000NPCs 1ul Tn5 1ng

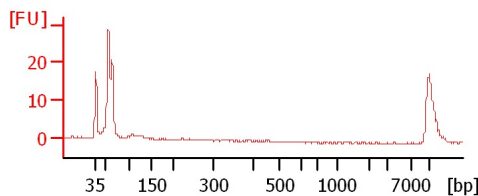
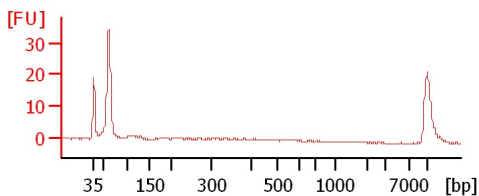
100,000NPCs 1ul Tn5 1ng

50,000NPCs 2.5ul Tn5 1ng



100,000NPCs 2.5ul Tn5 1ng

50,000NPCs NE 1ng



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
Modified: 5/13/2015 11:55:13 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
50,000NPCs 1ul Tn5 2ng		<input type="checkbox"/>	✓			
100,000NPCs 1ul Tn5 2ng		<input type="checkbox"/>	✓			
50,000NPCs 2.5ul Tn5 2ng		<input type="checkbox"/>	✓			
100,000NPCs 2.5ul Tn5 2ng		<input type="checkbox"/>	✓			
50,000NPCs NE 2ng		<input type="checkbox"/>	✓			
50,000NPCs NE 2ng		<input type="checkbox"/>	✓			
50,000NPCs 1ul Tn5 1ng		<input type="checkbox"/>	✓			
100,000NPCs 1ul Tn5 1ng		<input type="checkbox"/>	✓			
50,000NPCs 2.5ul Tn5 1ng		<input type="checkbox"/>	✓			
100,000NPCs 2.5ul Tn5 1ng		<input type="checkbox"/>	✓			
50,000NPCs NE 1ng		<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\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
Modified: 5/13/2015 11:55:13 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

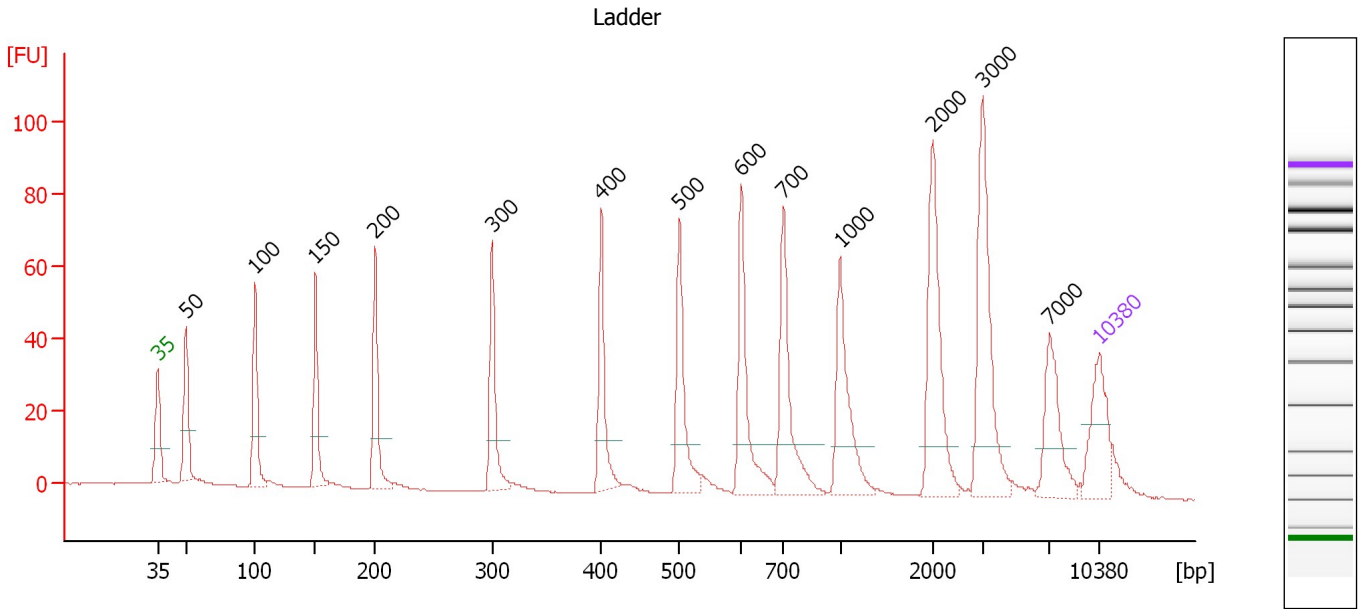
**Ladder**

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:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

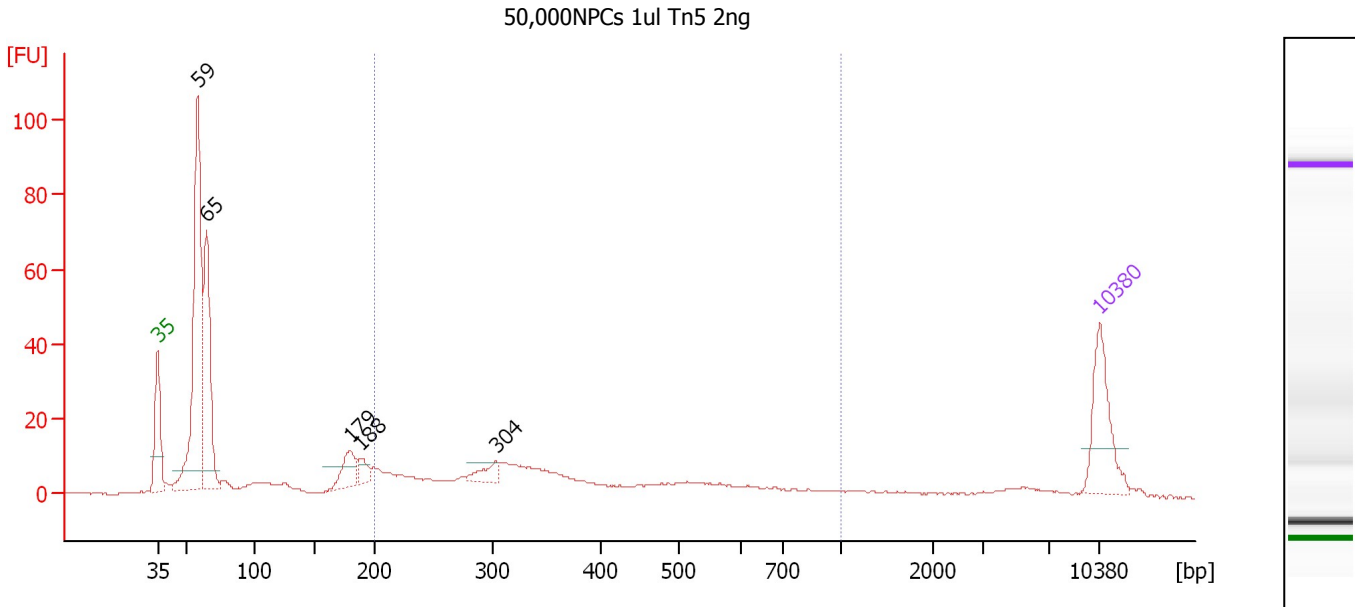
**Peak table for Ladder**

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	45.10
3	100	150.00	2,272.7	Ladder Peak	50.25
4	150	150.00	1,515.2	Ladder Peak	54.73
5	200	150.00	1,136.4	Ladder Peak	59.16
6	300	150.00	757.6	Ladder Peak	67.84
7	400	150.00	568.2	Ladder Peak	75.95
8	500	150.00	454.5	Ladder Peak	81.77
9	600	150.00	378.8	Ladder Peak	86.34
10	700	150.00	324.7	Ladder Peak	89.49
11	1,000	150.00	227.3	Ladder Peak	93.69
12	2,000	150.00	113.6	Ladder Peak	100.60
13	3,000	150.00	75.8	Ladder Peak	104.32
14	7,000	150.00	32.5	Ladder Peak	109.28
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 50,000NPCs 1ul Tn5 2ng**

Number of peaks found: 5                      Corr. Area 1: 205.8  
 Noise: 0.2

**Peak table for sample 1 : 50,000NPCs 1ul Tn5 2ng**

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	59	432.59	11,202.0		45.97
3	65	221.48	5,160.3		46.65
4	179	48.57	411.3		57.30
5	188	20.75	167.1		58.11
6	304	23.81	118.8		68.14
7	10,380	75.00	10.9	Upper Marker	113.00

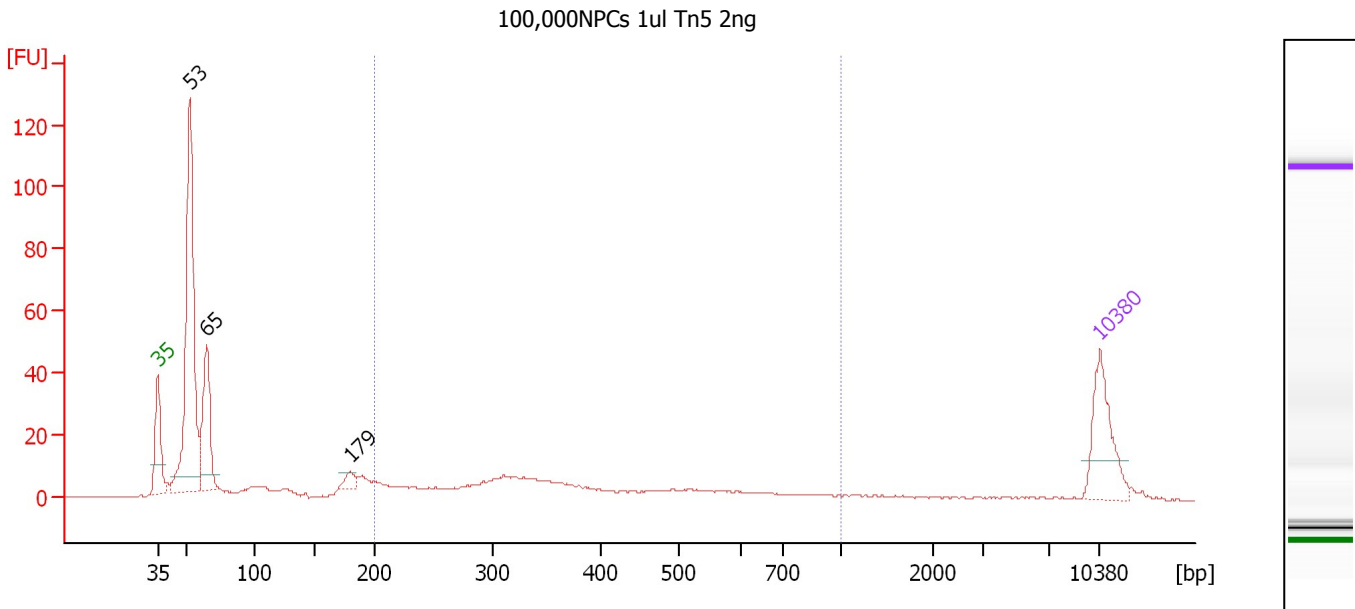
**Region table for sample 1 : 50,000NPCs 1ul Tn5 2ng**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	392	1,000	205.8	1,903.5	35	41.0	409.15	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 100,000NPCs 1ul Tn5 2ng**

Number of peaks found: 3                      Corr. Area 1: 165.6  
 Noise: 0.3

**Peak table for sample 2 : 100,000NPCs 1ul Tn5 2ng**

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	53	444.93	12,758.9		45.39
3	65	154.71	3,624.3		46.61
4	179	17.82	150.9		57.29
5	10,380	75.00	10.9	Upper Marker	113.00

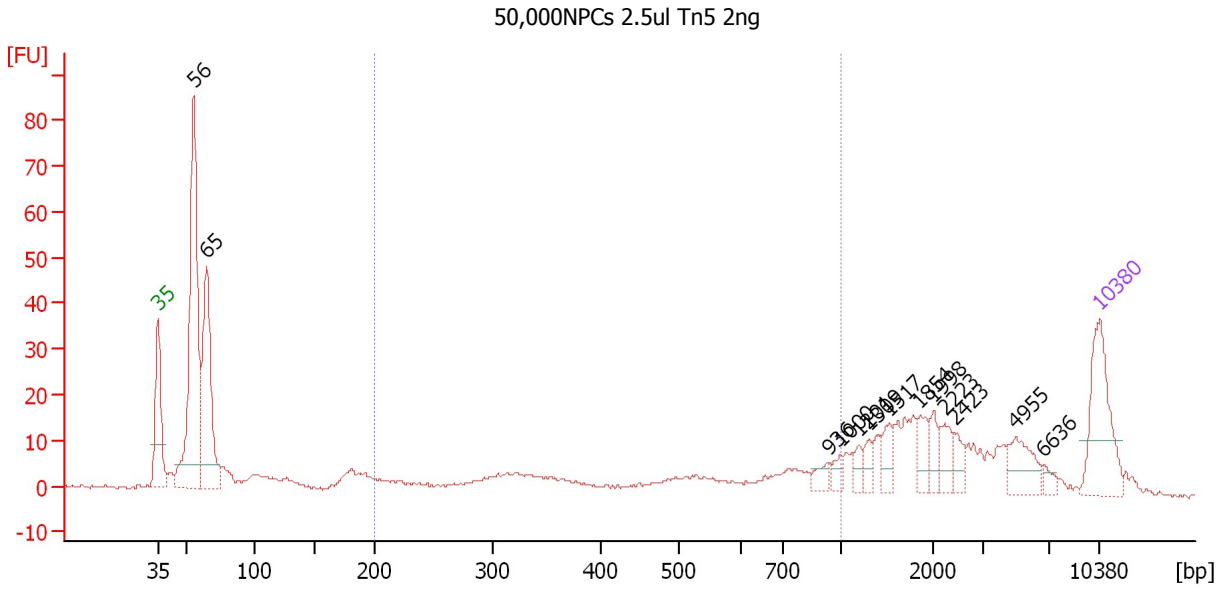
**Region table for sample 2 : 100,000NPCs 1ul Tn5 2ng**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	399	1,000	165.6	1,304.0	31	40.4	286.08	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 50,000NPCs 2.5ul Tn5 2ng**

Number of peaks found: 13                      Corr. Area 1: 117.4  
 Noise: 0.4

**Peak table for sample 3 : 50,000NPCs 2.5ul Tn5 2ng**

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	367.68	10,009.2		45.68
3	65	204.35	4,777.0		46.62
4	936	12.11	19.6		92.79
5	1,000	10.23	15.5		93.69
6	1,201	10.70	13.5		95.08
7	1,309	11.97	13.9		95.82
8	1,517	18.32	18.3		97.26
9	1,854	21.12	17.3		99.60
10	1,998	17.05	12.9		100.59
11	2,223	20.93	14.3		101.43
12	2,423	13.99	8.7		102.18
13	4,955	34.03	10.4		106.74
14	6,636	7.87	1.8		108.83
15	10,380	75.00	10.9	Upper Marker	113.00

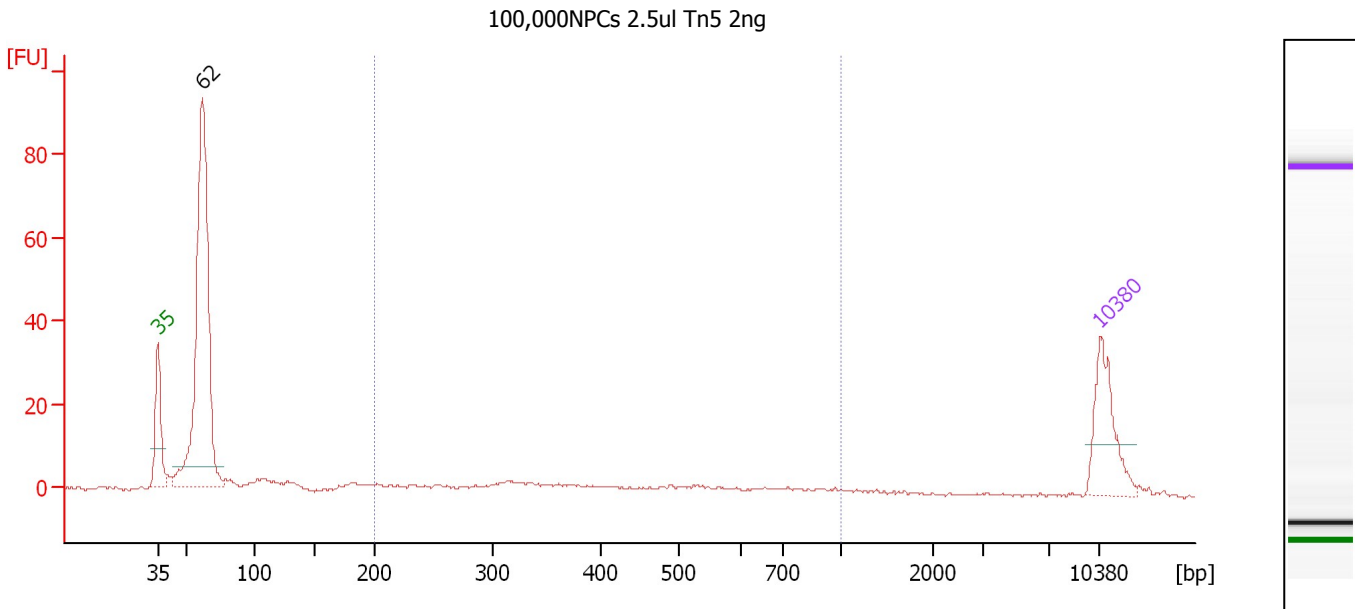
**Region table for sample 3 : 50,000NPCs 2.5ul Tn5 2ng**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	535	1,000	117.4	858.6	20	42.9	227.85	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 100,000NPCs 2.5ul Tn5 2ng**

Number of peaks found: 1                      Corr. Area 1: 59.0  
 Noise: 0.4

**Peak table for sample 4 : 100,000NPCs 2.5ul Tn5 2ng**

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	576.47	14,132.3		46.31
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 100,000NPCs 2.5ul Tn5 2ng**

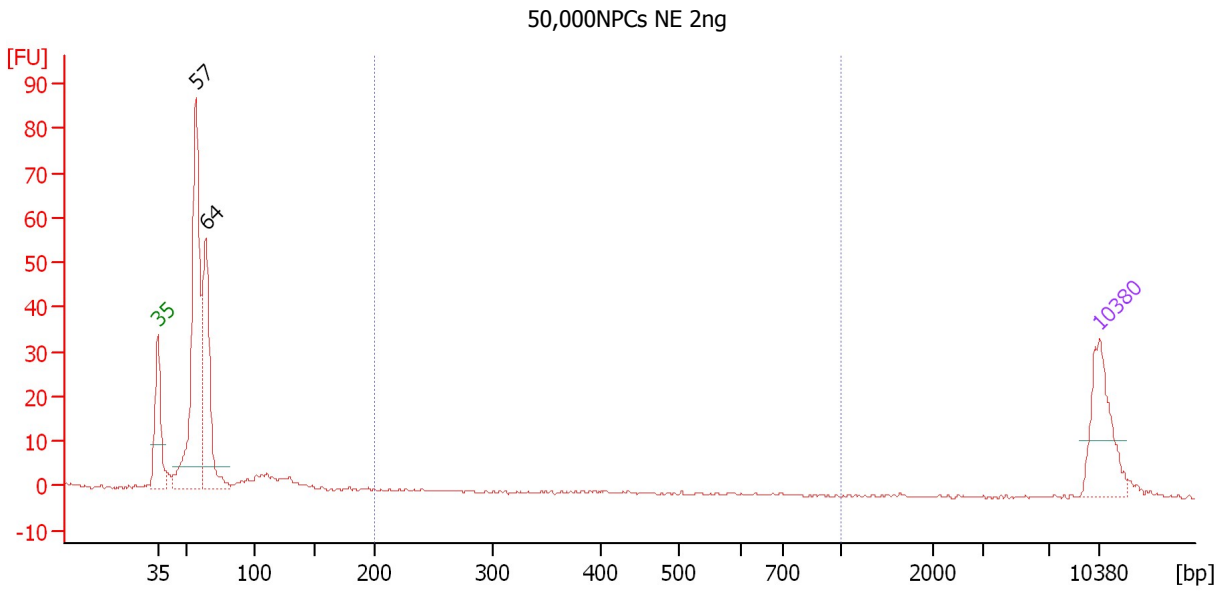
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	448	1,000	59.0	501.0	19	41.4	119.24	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 50,000NPCs NE 2ng**

Number of peaks found: 2                      Corr. Area 1: 0.6  
 Noise: 0.4

**Peak table for sample 5 : 50,000NPCs NE 2ng**

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	57	398.33	10,544.5		45.84
3	64	216.38	5,101.6		46.57
4	10,380	75.00	10.9	Upper Marker	113.00

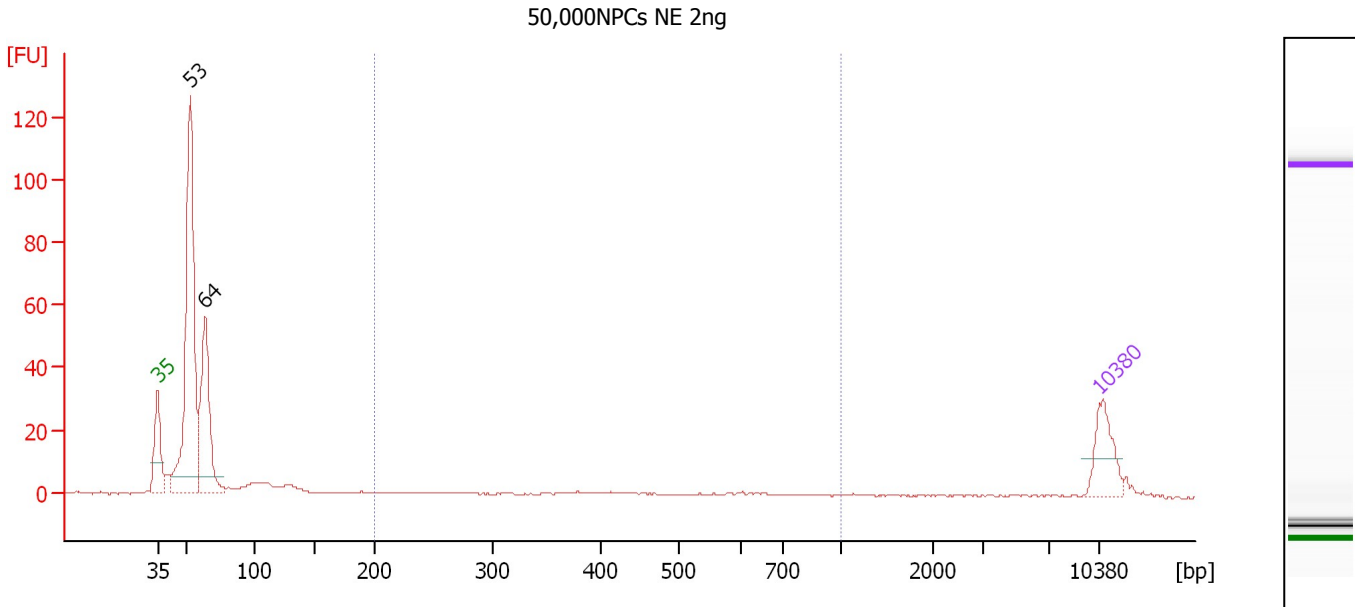
**Region table for sample 5 : 50,000NPCs NE 2ng**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	346	1,000	0.6	6.7	0	37.7	1.27	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 50,000NPCs NE 2ng**

Number of peaks found: 2                      Corr. Area 1: 22.5  
 Noise: 0.3

**Peak table for sample 6 : 50,000NPCs NE 2ng**

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	53	719.69	20,515.0		45.42
3	64	325.89	7,728.1		46.53
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : 50,000NPCs NE 2ng**

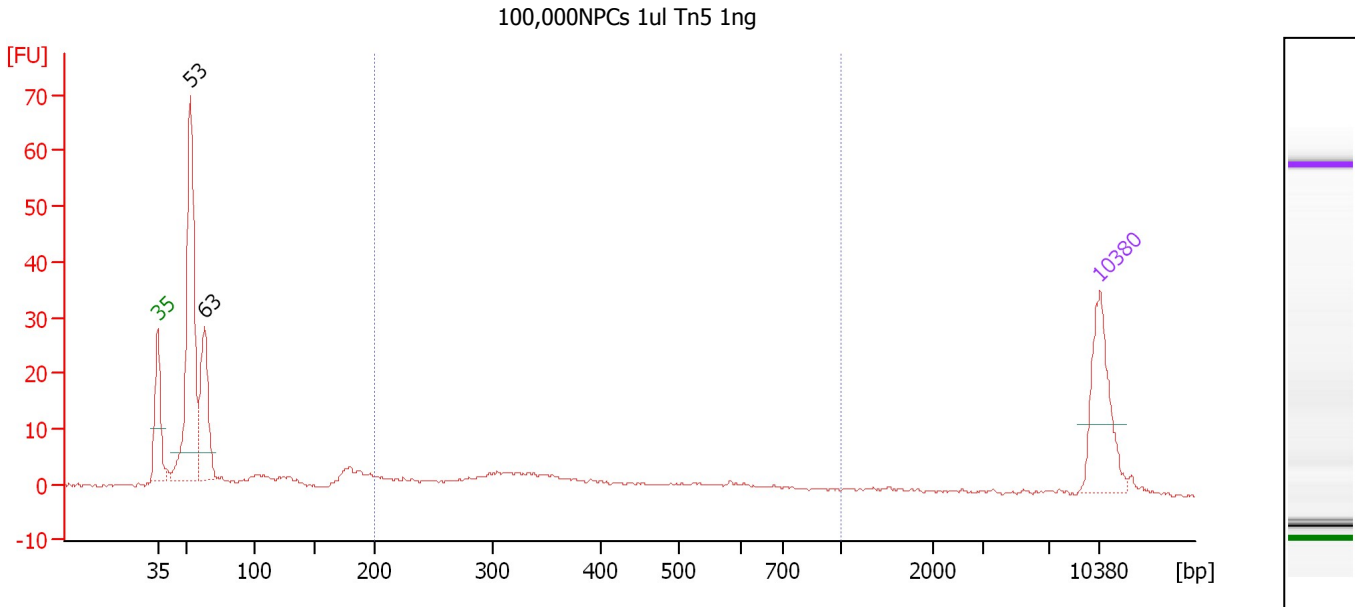
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	464	1,000	22.5	242.5	6	38.3	59.70	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 100,000NPCs 1ul Tn5 1ng**

Number of peaks found: 2                      Corr. Area 1: 67.9  
 Noise: 0.3

**Peak table for sample 8 : 100,000NPCs 1ul Tn5 1ng**

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	53	317.84	9,005.5		45.46
3	63	121.30	2,902.3		46.47
4	10,380	75.00	10.9	Upper Marker	113.00

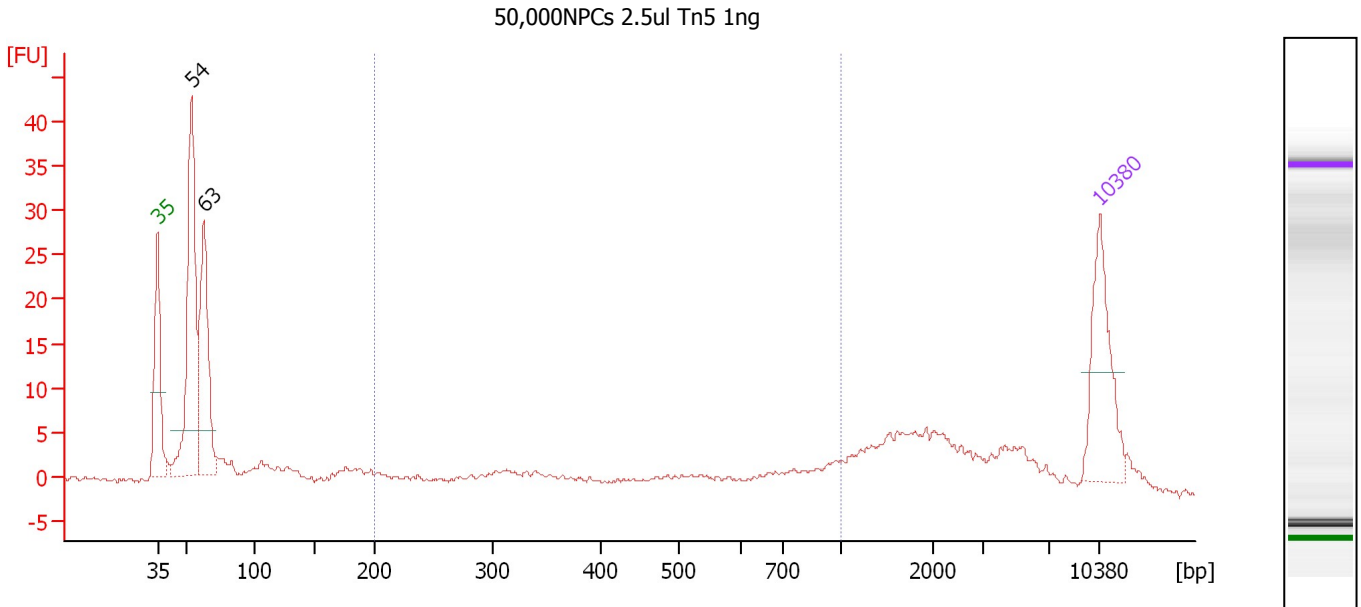
**Region table for sample 8 : 100,000NPCs 1ul Tn5 1ng**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	404	1,000	67.9	716.0	26	39.6	159.82	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 50,000NPCs 2.5ul Tn5 1ng**

Number of peaks found: 2                      Corr. Area 1: 30.6  
 Noise: 0.3

**Peak table for sample 9 : 50,000NPCs 2.5ul Tn5 1ng**

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	247.09	6,921.6		45.52
3	63	157.07	3,781.5		46.43
4	10,380	75.00	10.9	Upper Marker	113.00

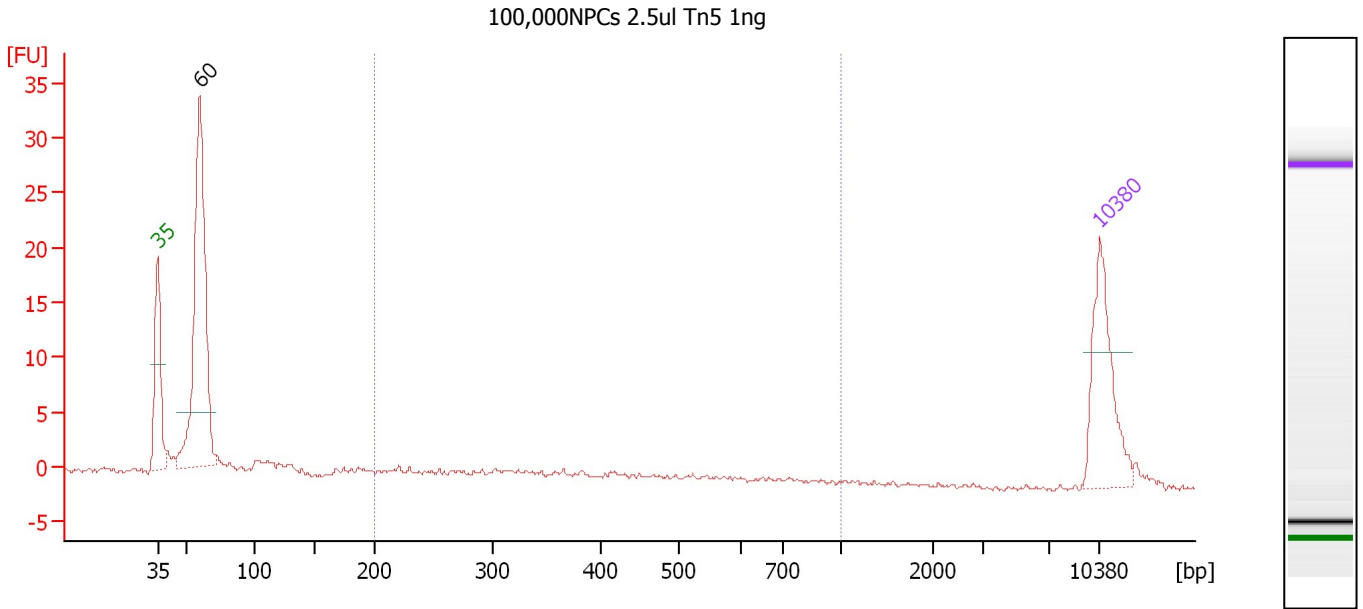
**Region table for sample 9 : 50,000NPCs 2.5ul Tn5 1ng**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	568	1,000	30.6	290.1	13	41.8	81.31	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 100,000NPCs 2.5ul Tn5 1ng**

Number of peaks found: 1      Corr. Area 1: 21.6  
 Noise: 0.3

**Peak table for sample 10 : 100,000NPCs 2.5ul Tn5 1ng**

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	60	313.66	7,924.0		46.13
3	10,380	75.00	10.9	Upper Marker	113.00

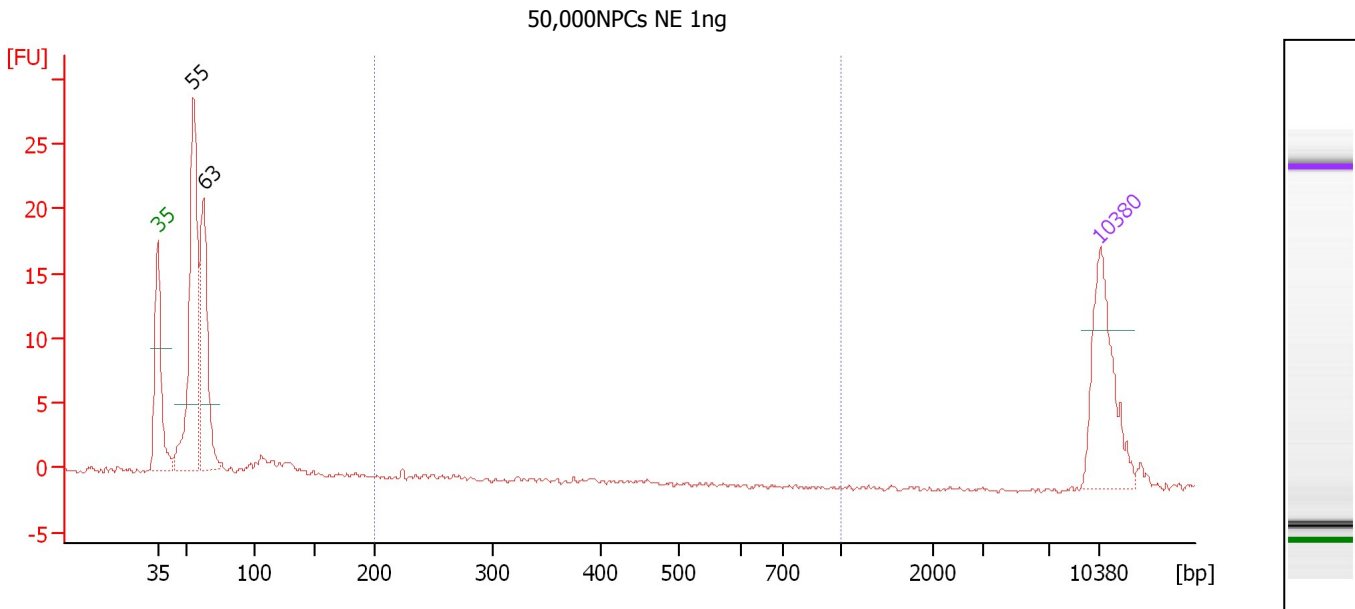
**Region table for sample 10 : 100,000NPCs 2.5ul Tn5 1ng**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	431	1,000	21.6	326.6	19	41.0	75.20	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
 Modified: 5/13/2015 11:55:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 50,000NPCs NE 1ng**

Number of peaks found: 2                      Corr. Area 1: 1.2  
 Noise: 0.2

**Peak table for sample 11 : 50,000NPCs NE 1ng**

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	55	223.81	6,116.0		45.66
3	63	138.20	3,333.3		46.42
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : 50,000NPCs NE 1ng**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	310	1,000	1.2	25.8	1	27.7	4.80	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_001.xad

Created: 5/13/2015 11:13:49 AM  
Modified: 5/13/2015 11:55:13 AM

**Gel Image**

