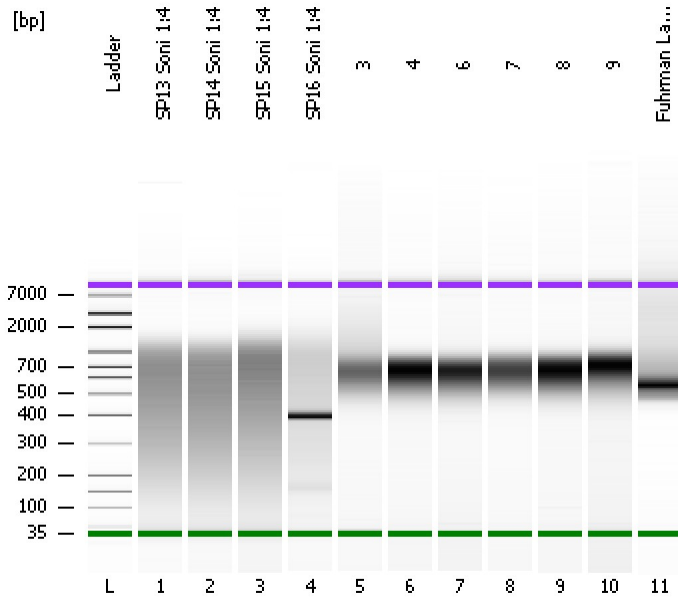


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
Modified: 6/25/2015 10:52:23 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

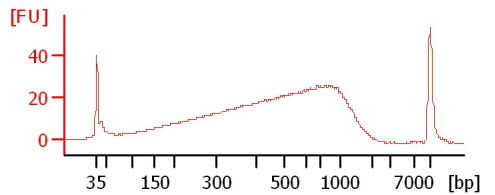
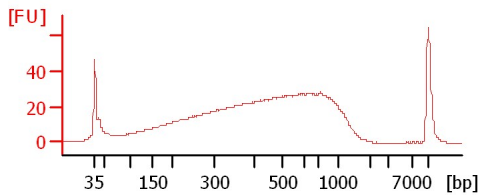
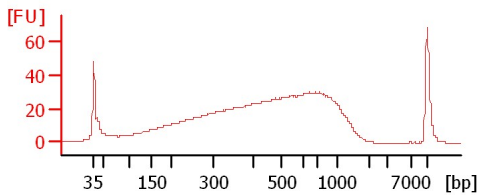
Chip Information:

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

SP13 Soni 1:4

SP14 Soni 1:4

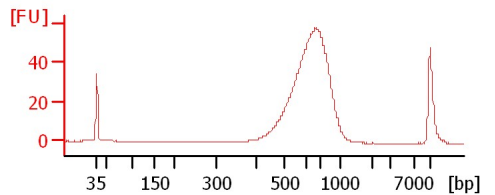
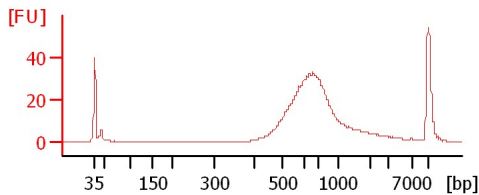
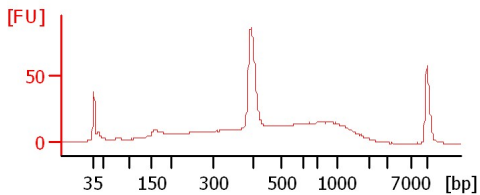
SP15 Soni 1:4



SP16 Soni 1:4

3

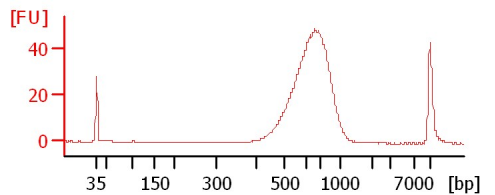
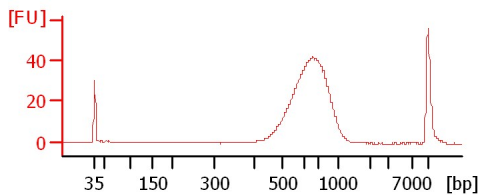
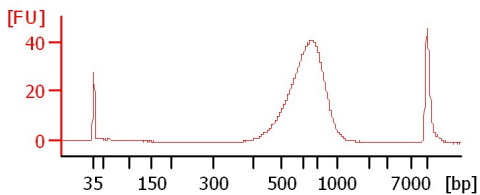
4



6

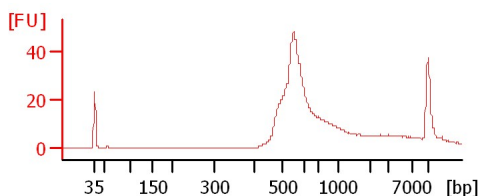
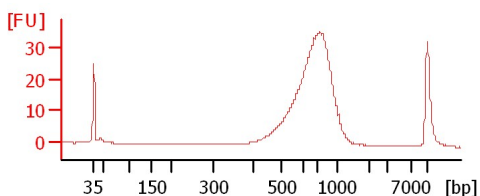
7

8



9

Fuhrman Lab Pool



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SP13 Soni 1:4		<input type="checkbox"/>	✓			
SP14 Soni 1:4		<input type="checkbox"/>	✓			
SP15 Soni 1:4		<input type="checkbox"/>	✓			
SP16 Soni 1:4		<input type="checkbox"/>	✓			
3		<input type="checkbox"/>	✓			
4		<input type="checkbox"/>	✓			
6		<input type="checkbox"/>	✓			
7		<input type="checkbox"/>	✓			
8		<input type="checkbox"/>	✓			
9		<input type="checkbox"/>	✓			
Fuhrman Lab Pool		<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\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
Modified: 6/25/2015 10:52:23 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

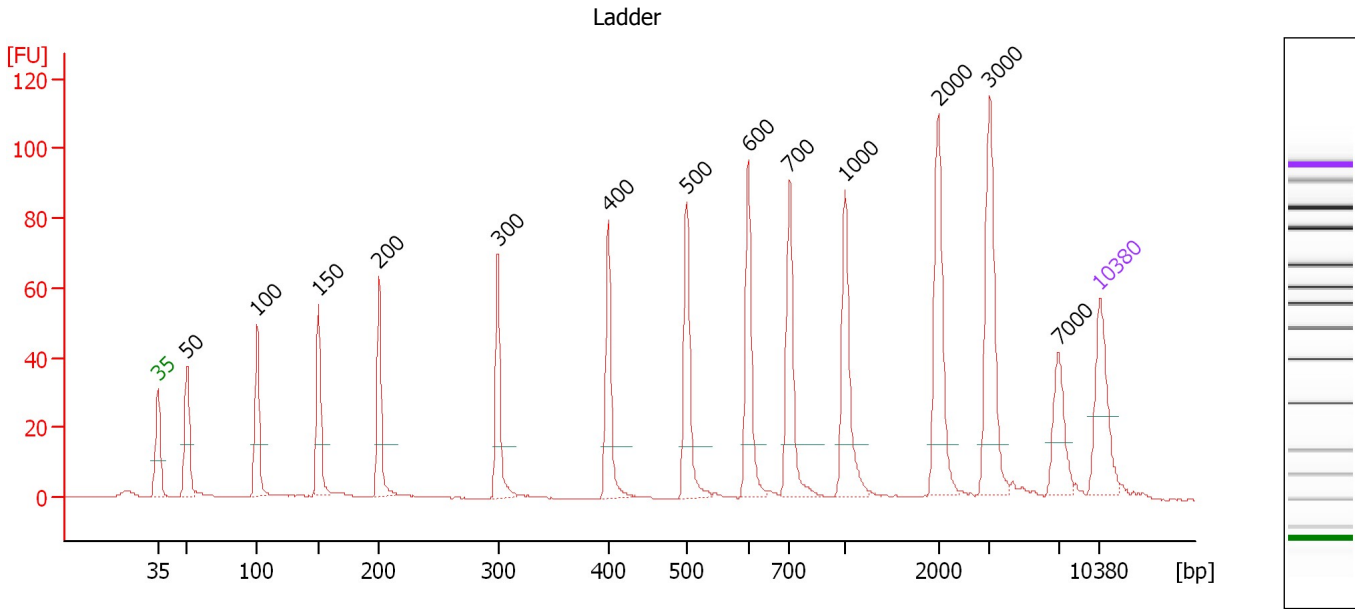
**Ladder**

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\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

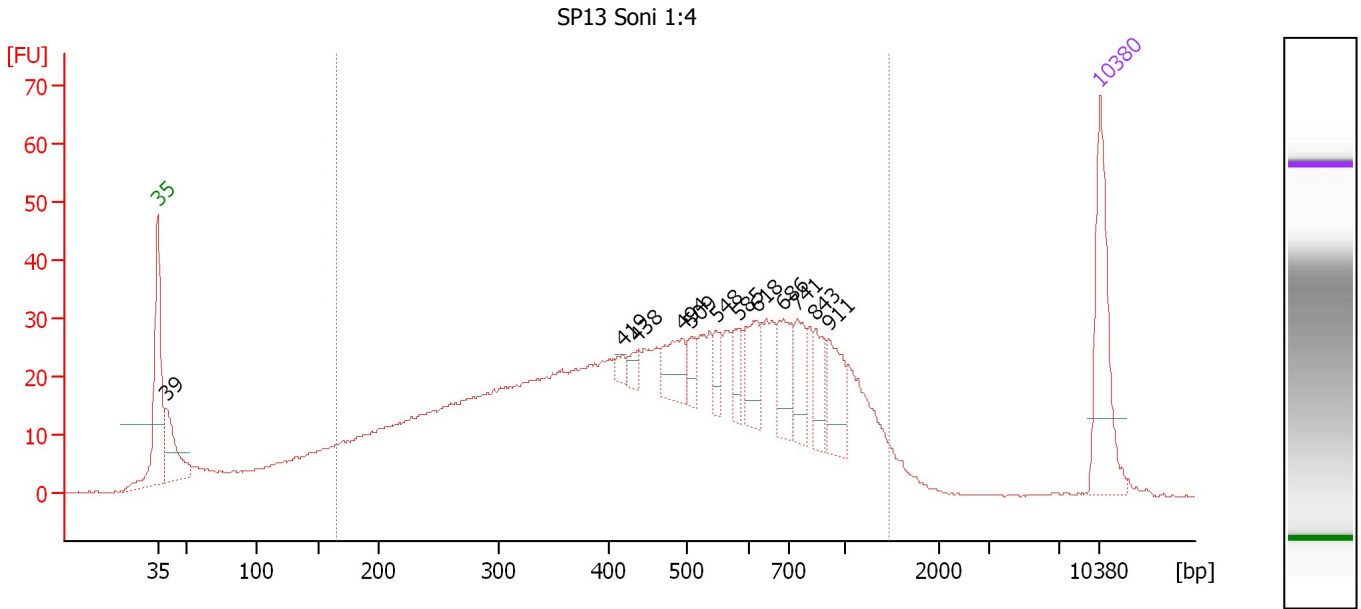
**Peak table for Ladder**

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	45.17
3	100	150.00	2,272.7	Ladder Peak	50.38
4	150	150.00	1,515.2	Ladder Peak	54.98
5	200	150.00	1,136.4	Ladder Peak	59.47
6	300	150.00	757.6	Ladder Peak	68.29
7	400	150.00	568.2	Ladder Peak	76.45
8	500	150.00	454.5	Ladder Peak	82.28
9	600	150.00	378.8	Ladder Peak	86.88
10	700	150.00	324.7	Ladder Peak	89.92
11	1,000	150.00	227.3	Ladder Peak	94.05
12	2,000	150.00	113.6	Ladder Peak	100.97
13	3,000	150.00	75.8	Ladder Peak	104.79
14	7,000	150.00	32.5	Ladder Peak	109.90
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : SP13 Soni 1:4**

Number of peaks found: 12                      Corr. Area 1: 1,095.2  
 Noise: 0.1

**Peak table for sample 1 : SP13 Soni 1:4**

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	39	67.26	2,593.3		43.62
3	419	8.12	29.4		77.56
4	438	10.68	37.0		78.65
5	494	36.42	111.6		81.96
6	509	15.31	45.6		82.68
7	548	17.52	48.4		84.49
8	585	18.35	47.5		86.20
9	618	35.54	87.1		87.44
10	686	42.28	93.3		89.51
11	741	32.02	65.4		90.49
12	843	27.28	49.0		91.89
13	911	41.01	68.3		92.82
14	10,380	75.00	10.9	Upper Marker	113.00

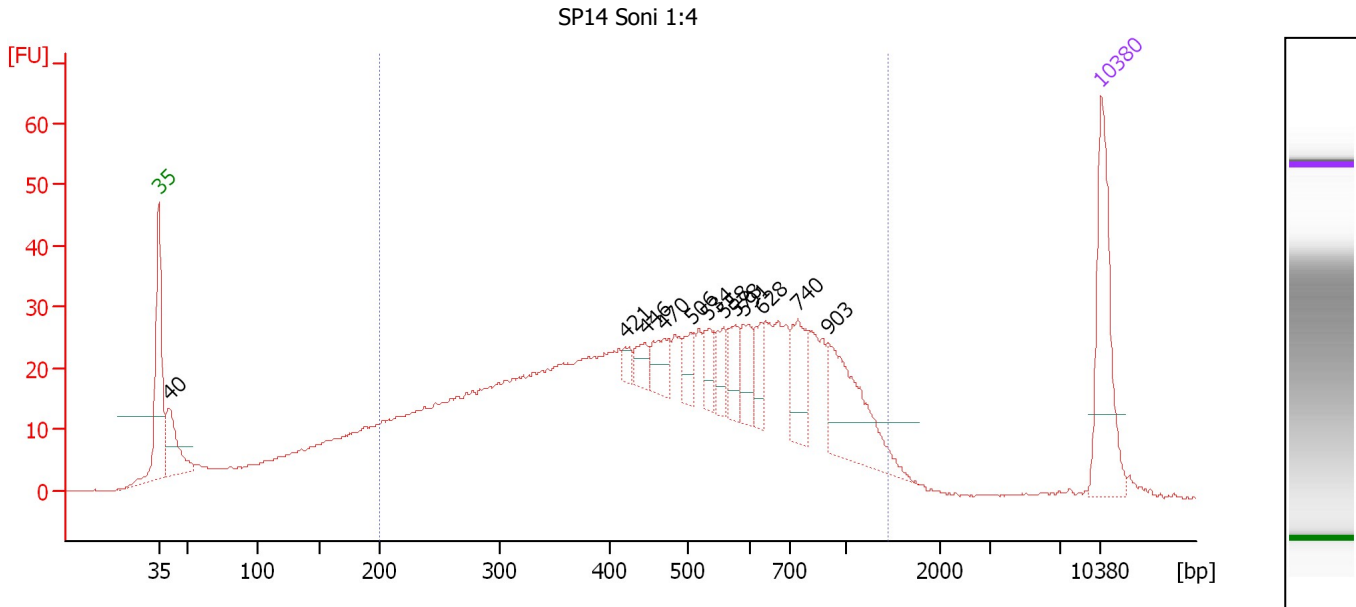
**Region table for sample 1 : SP13 Soni 1:4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/µl]
165	527	1,466	1,095.2	7,301.0	86	49.5	1,822.49

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : SP14 Soni 1:4**

Number of peaks found: 12                      Corr. Area 1: 1,002.1  
 Noise: 0.1

**Peak table for sample 2 : SP14 Soni 1:4**

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	60.21	2,256.0		43.79
3	421	8.28	29.8		77.69
4	446	15.65	53.1		79.15
5	470	24.92	80.4		80.51
6	506	19.03	57.0		82.56
7	534	20.06	56.9		83.87
8	558	19.18	52.0		84.97
9	578	24.36	63.9		85.86
10	591	25.38	65.0		86.49
11	628	23.47	56.6		87.75
12	740	39.22	80.3		90.47
13	903	85.09	142.7		92.72
14	10,380	75.00	10.9	Upper Marker	113.00

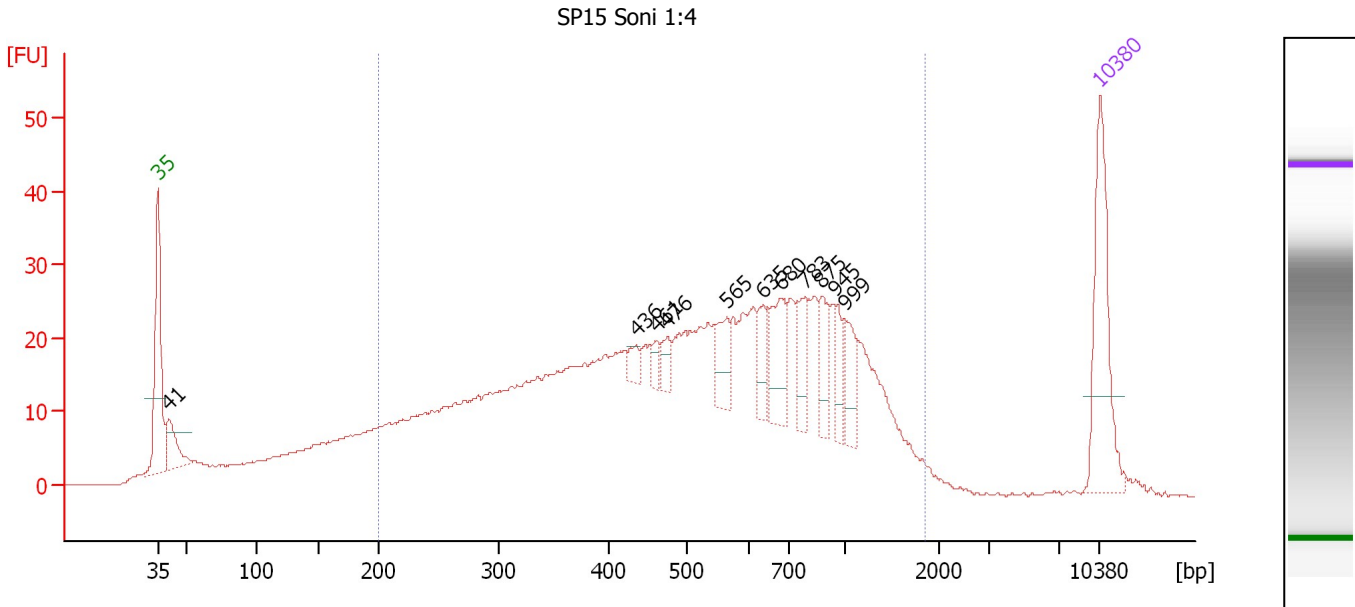
**Region table for sample 2 : SP14 Soni 1:4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	528	1,441	1,002.1	6,178.4	82	47.0	1,631.58

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : SP15 Soni 1:4**

Number of peaks found: 11                      Corr. Area 1: 868.3  
 Noise: 0.1

**Peak table for sample 3 : SP15 Soni 1:4**

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	41	40.15	1,488.3		43.85
3	436	10.53	36.6		78.53
4	461	9.98	32.8		80.02
5	476	12.22	38.9		80.87
6	565	29.74	79.7		85.28
7	635	20.84	49.7		87.93
8	680	43.45	96.8		89.31
9	783	25.31	49.0		91.07
10	875	25.02	43.3		92.34
11	945	21.31	34.2		93.30
12	999	27.24	41.3		94.04
13	10,380	75.00	10.9	Upper Marker	113.00

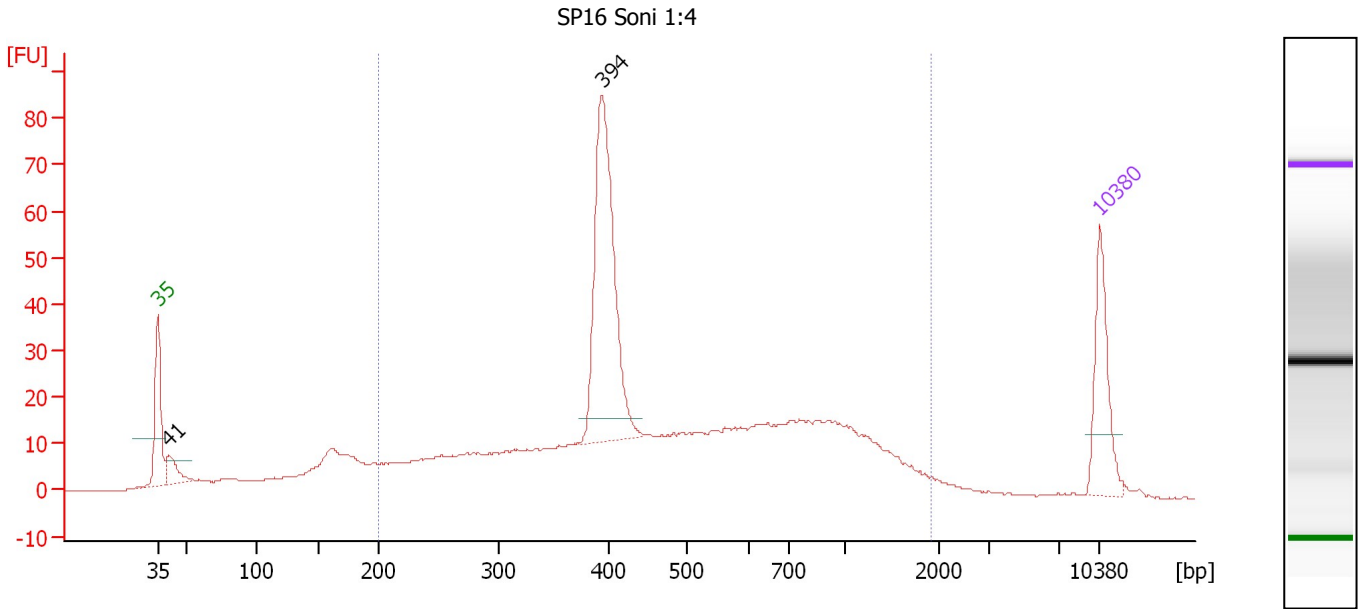
**Region table for sample 3 : SP15 Soni 1:4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	600	1,866	868.3	5,862.6	84	54.1	1,651.18

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : SP16 Soni 1:4**

Number of peaks found: 2                      Corr. Area 1: 707.5  
 Noise: 0.1

**Peak table for sample 4 : SP16 Soni 1:4**

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	41	36.13	1,336.0		43.86
3	394	310.09	1,191.0		76.00
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : SP16 Soni 1:4**

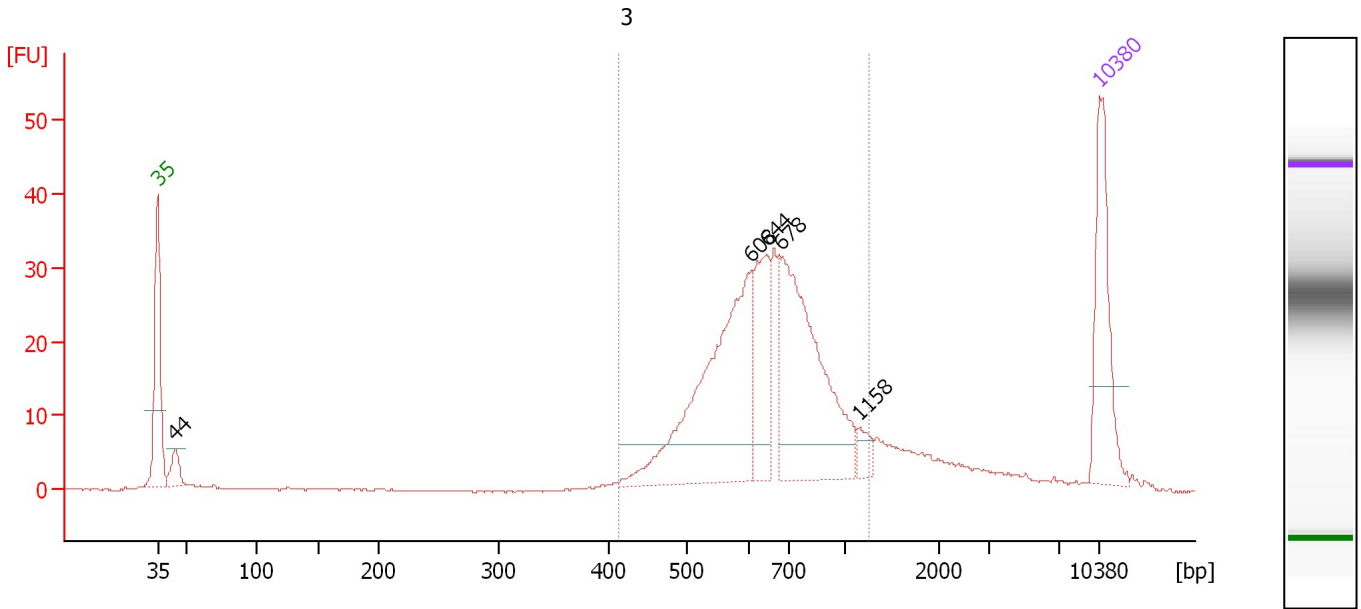
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	569	1,916	707.5	4,927.6	83	57.8	1,358.30



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 3**

Number of peaks found: 5                      Corr. Area 1: 351.4  
 Noise: 0.1

**Peak table for sample 5 : 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	44	22.83	785.1		44.31
3	608	233.88	583.0		87.12
4	644	76.43	179.9		88.21
5	678	209.43	468.2		89.25
6	1,158	11.63	15.2		95.15
7	10,380	75.00	10.9	Upper Marker	113.00

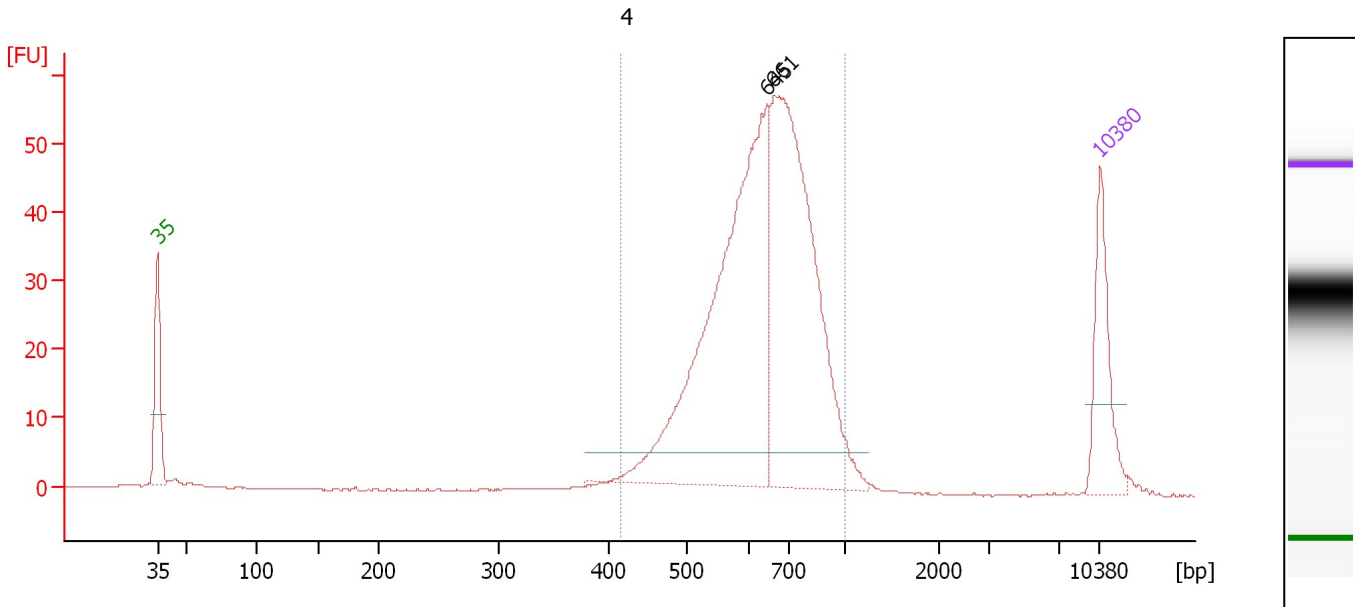
**Region table for sample 5 : 3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
414	679	1,268	351.4	1,534.6	77	24.3	646.29

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 4**

Number of peaks found: 2                      Corr. Area 1: 533.5  
 Noise: 0.1

**Peak table for sample 6 : 4**

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	645	546.06	1,282.6		88.25
3	661	478.05	1,095.2		88.75
4	10,380	75.00	10.9	Upper Marker	113.00

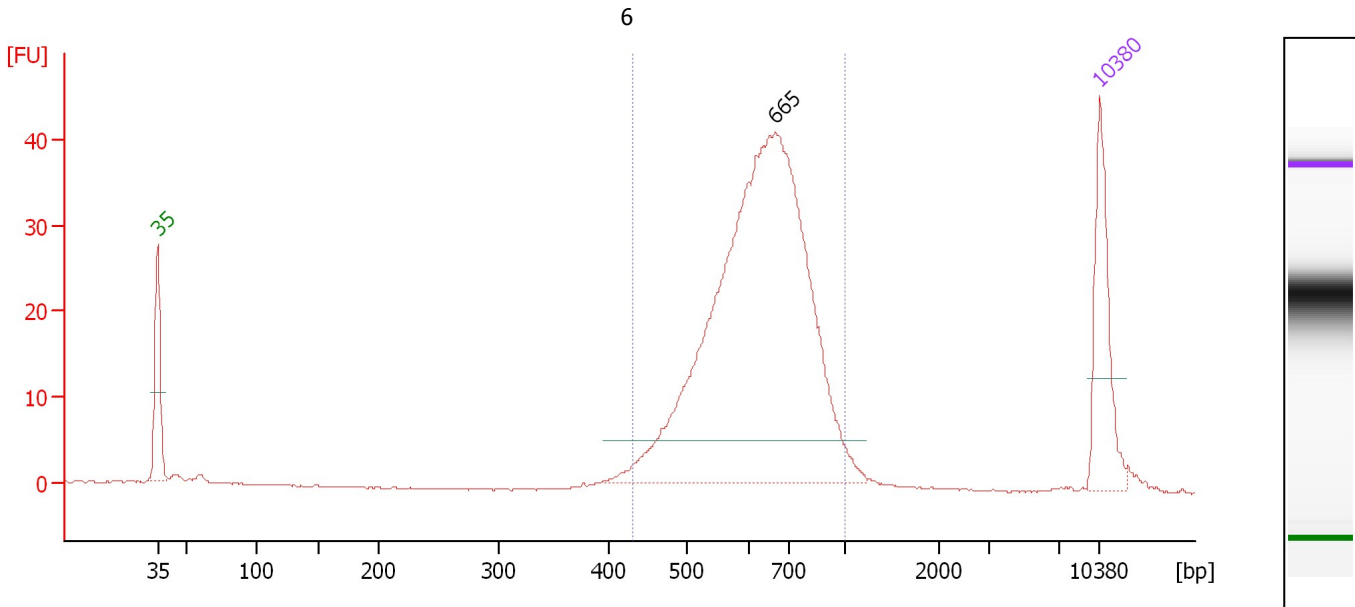
**Region table for sample 6 : 4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
416	653	1,000	533.5	2,569.9	94	18.1	1,066.58

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 6**

Number of peaks found: 1                      Corr. Area 1: 377.5  
 Noise: 0.1

**Peak table for sample 7 : 6**

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	665	773.95	1,764.1		88.85
3	10,380	75.00	10.9	Upper Marker	113.00

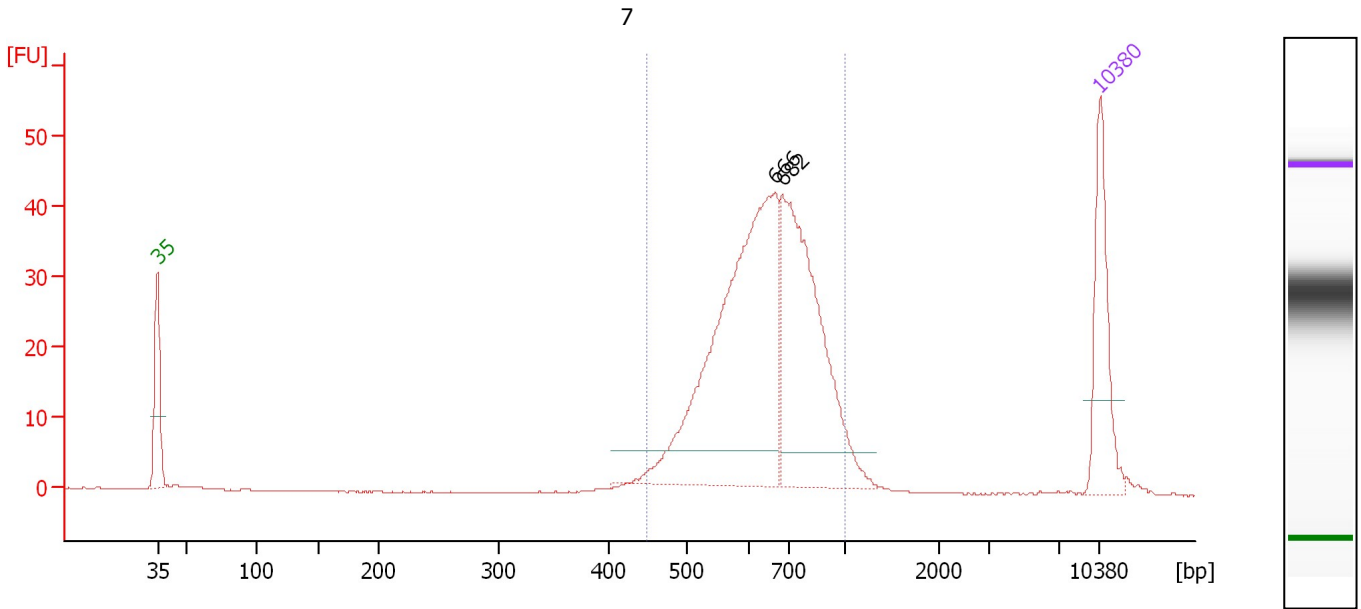
**Region table for sample 7 : 6**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
431	646	1,000	377.5	1,953.0	92	17.8	802.89

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 7**

Number of peaks found: 2                      Corr. Area 1: 398.4  
 Noise: 0.1

**Peak table for sample 8 : 7**

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	666	427.72	973.3		88.89
3	682	285.49	633.9		89.39
4	10,380	75.00	10.9	Upper Marker	113.00

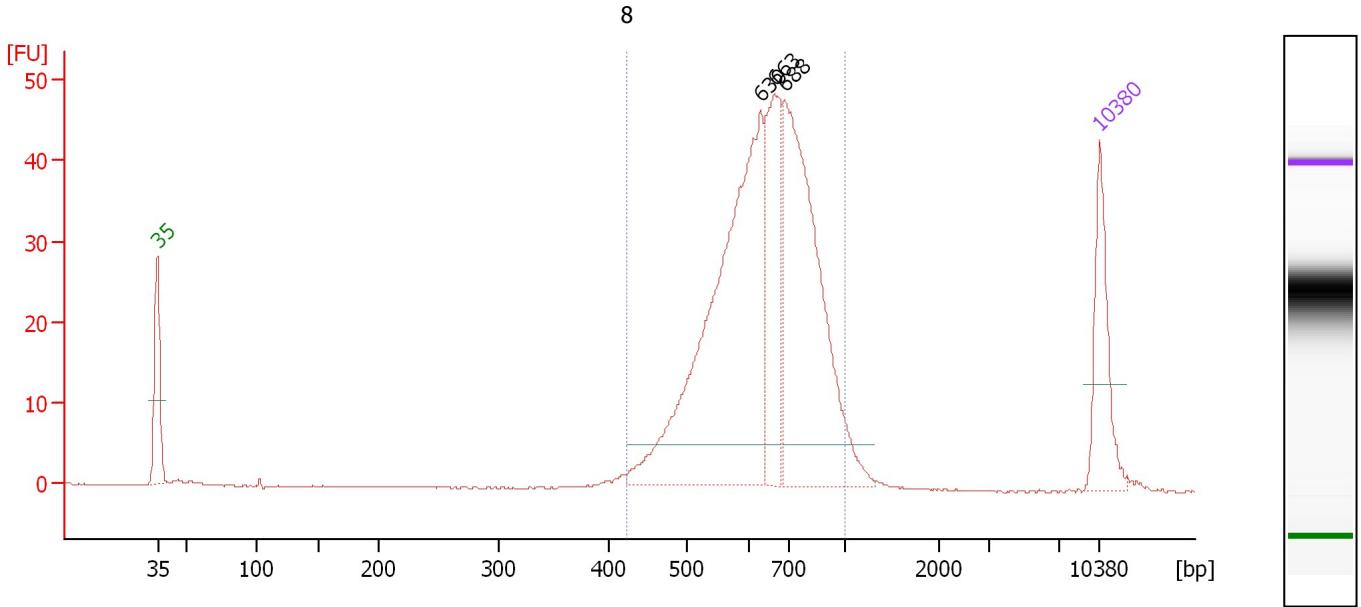
**Region table for sample 8 : 7**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
448	665	1,000	398.4	1,746.7	93	18.3	738.42

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 8**

Number of peaks found: 3                      Corr. Area 1: 450.0  
 Noise: 0.1

**Peak table for sample 9 : 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	630	506.35	1,218.3		87.78
3	663	152.52	348.7		88.79
4	688	377.28	830.3		89.57
5	10,380	75.00	10.9	Upper Marker	113.00

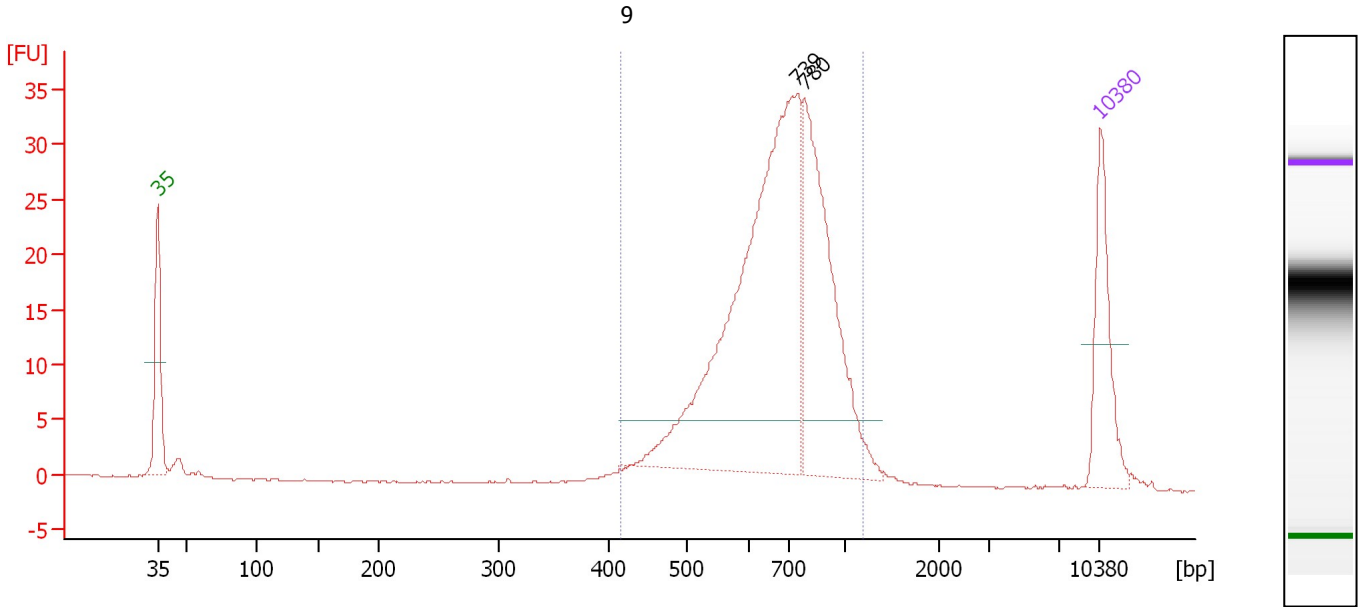
**Region table for sample 9 : 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
425	659	1,000	450.0	2,579.1	94	18.3	1,079.71

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 9**

Number of peaks found: 2                      Corr. Area 1: 311.1  
 Noise: 0.1

**Peak table for sample 10 : 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	739	555.85	1,139.1		90.47
3	780	261.50	508.1		91.02
4	10,380	75.00	10.9	Upper Marker	113.00

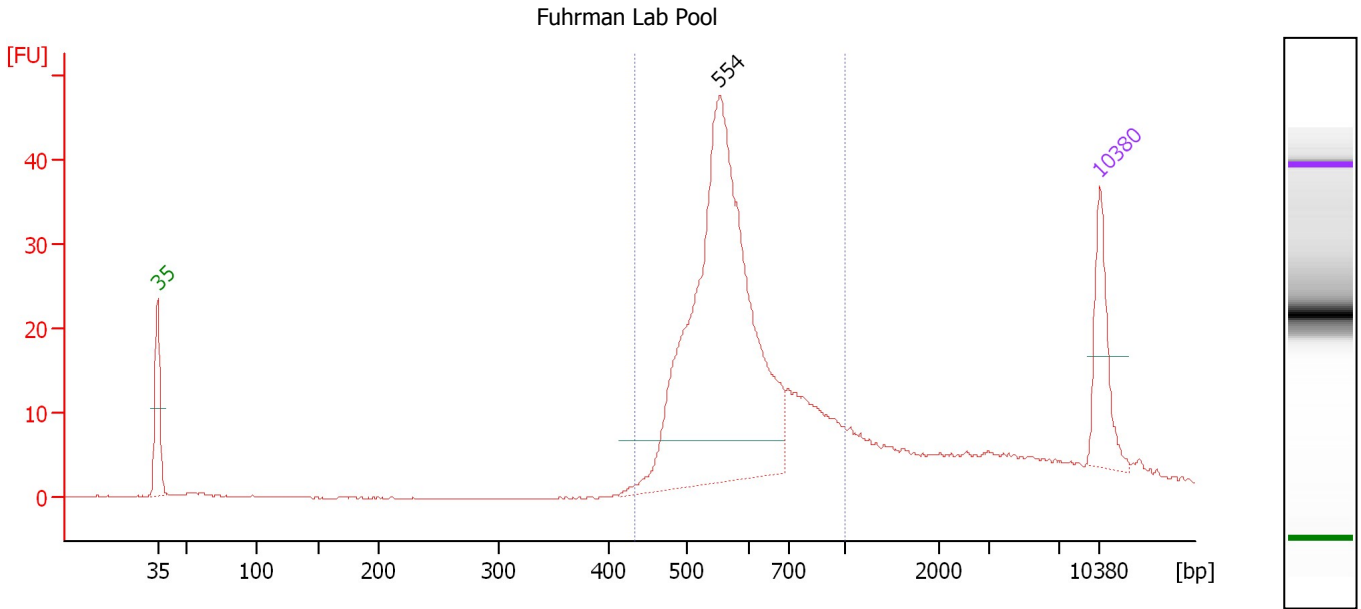
**Region table for sample 10 : 9**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
417	706	1,196	311.1	2,009.1	95	21.1	888.83

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
 Modified: 6/25/2015 10:52:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Fuhrman Lab Pool**

Number of peaks found: 1                      Corr. Area 1: 317.1  
 Noise: 0.1

**Peak table for sample 11 : Fuhrman Lab Pool**

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	554	772.01	2,111.5		84.76
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : Fuhrman Lab Pool**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
435	604	1,000	317.1	2,584.6	71	19.5	992.19

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-25\2015-06-25\_001.xad

Created: 6/25/2015 9:57:20 AM  
Modified: 6/25/2015 10:52:23 AM

**Gel Image**

