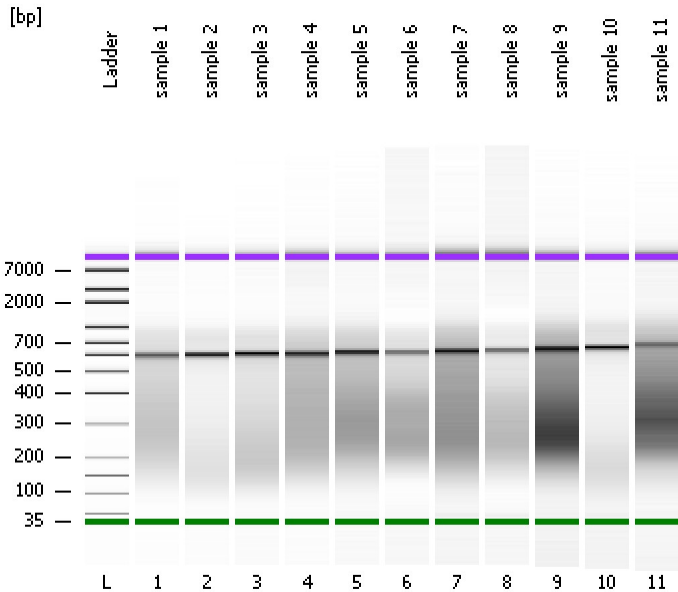Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad

Created: 9/18/2013 11:29:03 AM
Modified: 9/18/2013 12:11:32 PM

Electrophoresis File Run Summary
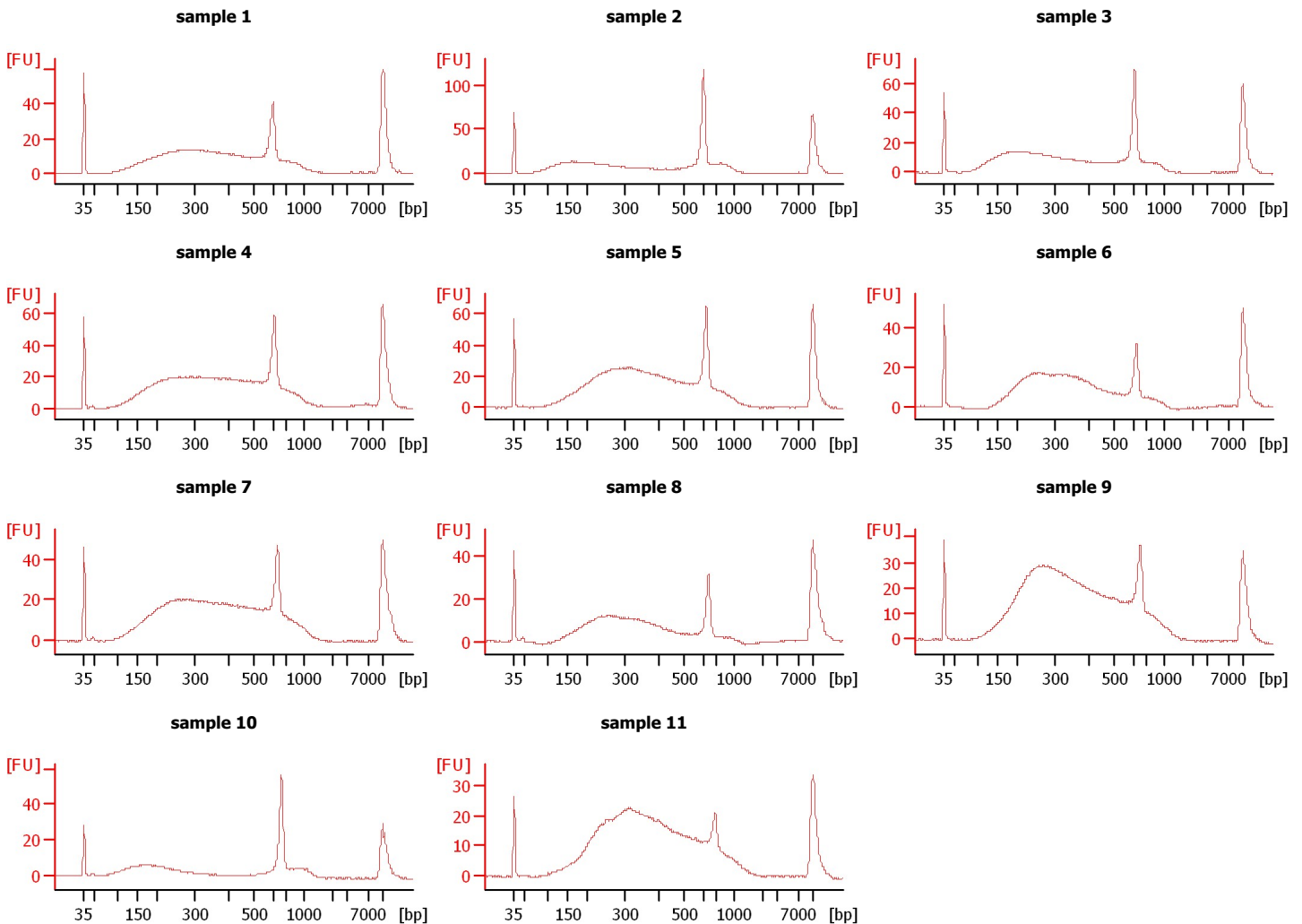

Instrument Information:

| 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:

sample 1

sample 2

sample 3

sample 4

sample 5

sample 6

sample 7

sample 8

sample 9

sample 10

sample 11

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad

Created: 9/18/2013 11:29:03 AM
Modified: 9/18/2013 12:11:32 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		☐	✔			
sample 2		☐	✔			
sample 3		☐	✔			
sample 4		☐	✔			
sample 5		☐	✔			
sample 6		☐	✔			
sample 7		☐	✔			
sample 8		☐	✔			
sample 9		☐	✔			
sample 10		☐	✔			
sample 11		☐	✔			
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad

Created: 9/18/2013 11:29:03 AM
Modified: 9/18/2013 12:11:32 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

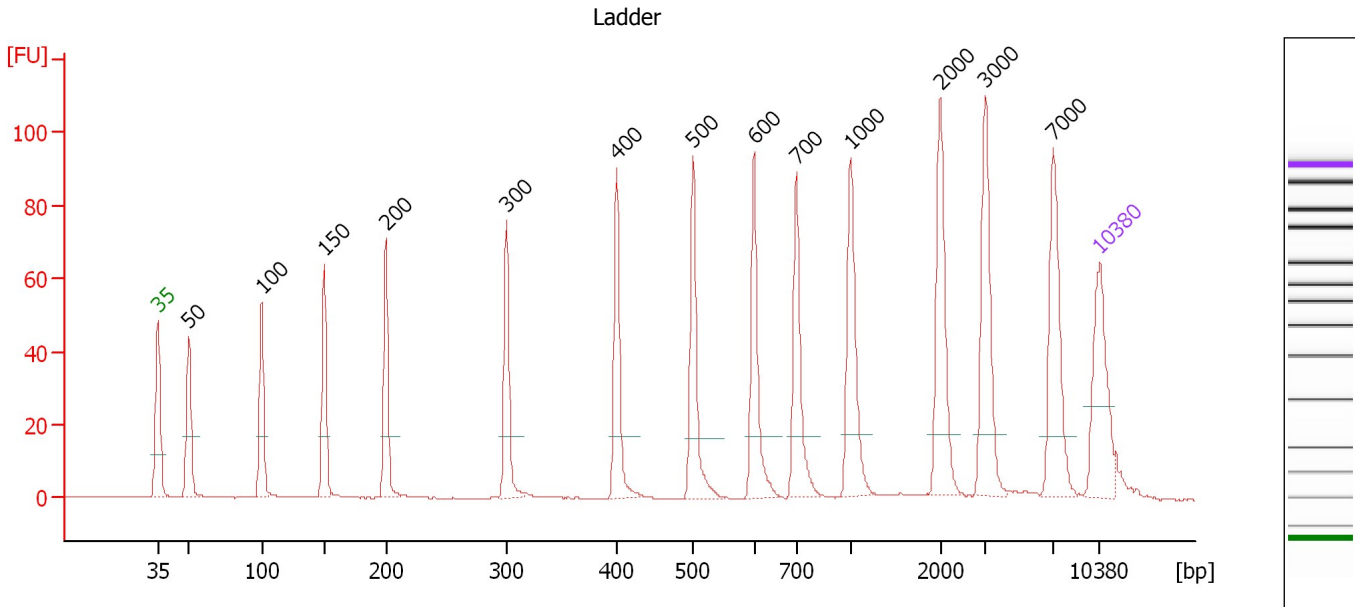Filter Width [s] : 0.5
Polynomial Order : 4

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\2013-09-18\2013-09-18_002.xad

Created: 9/18/2013 11:29:03 AM
Modified: 9/18/2013 12:11:32 PM

Electropherogram Summary

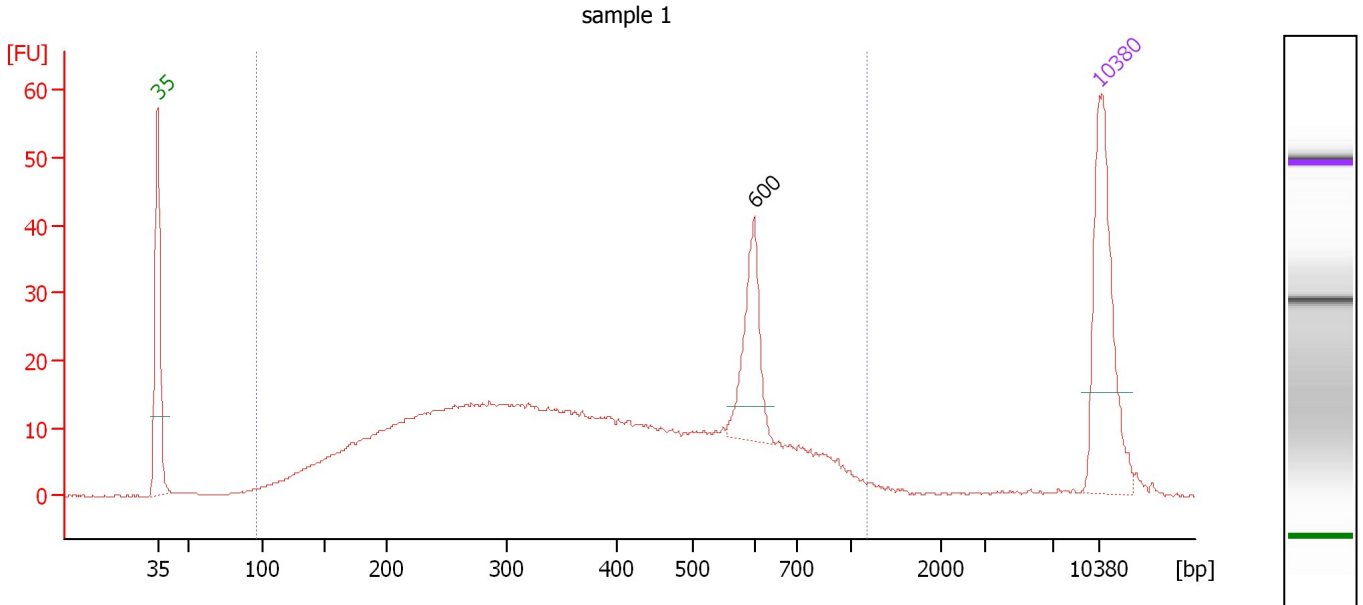

Overall Results for Ladder

Noise: 0.1

Peak table for Ladder

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2	L	50	150.00	4,545.5	Ladder Peak
3	L	100	150.00	2,272.7	Ladder Peak
4	L	150	150.00	1,515.2	Ladder Peak
5	L	200	150.00	1,136.4	Ladder Peak
6	L	300	150.00	757.6	Ladder Peak
7	L	400	150.00	568.2	Ladder Peak
8	L	500	150.00	454.5	Ladder Peak
9	L	600	150.00	378.8	Ladder Peak
10	L	700	150.00	324.7	Ladder Peak
11	L	1,000	150.00	227.3	Ladder Peak
12	L	2,000	150.00	113.6	Ladder Peak
13	L	3,000	150.00	75.8	Ladder Peak
14	L	7,000	150.00	32.5	Ladder Peak
15	►	10,380	75.00	10.9	Upper Marker

Assay Class:　　　High Sensitivity DNA Assay　　　　　　　　　　　Created:　9/18/2013 11:29:03 AM
Data Path:　　　　C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad　　Modified:　9/18/2013 12:11:32 PM

Electropherogram Summary Continued ...

sample 1

Overall Results for sample 1 :　　sample 1

Number of peaks found:	1	Corr. Area 1:	642.5
Noise:	0.1		

Peak table for sample 1 :　　sample 1

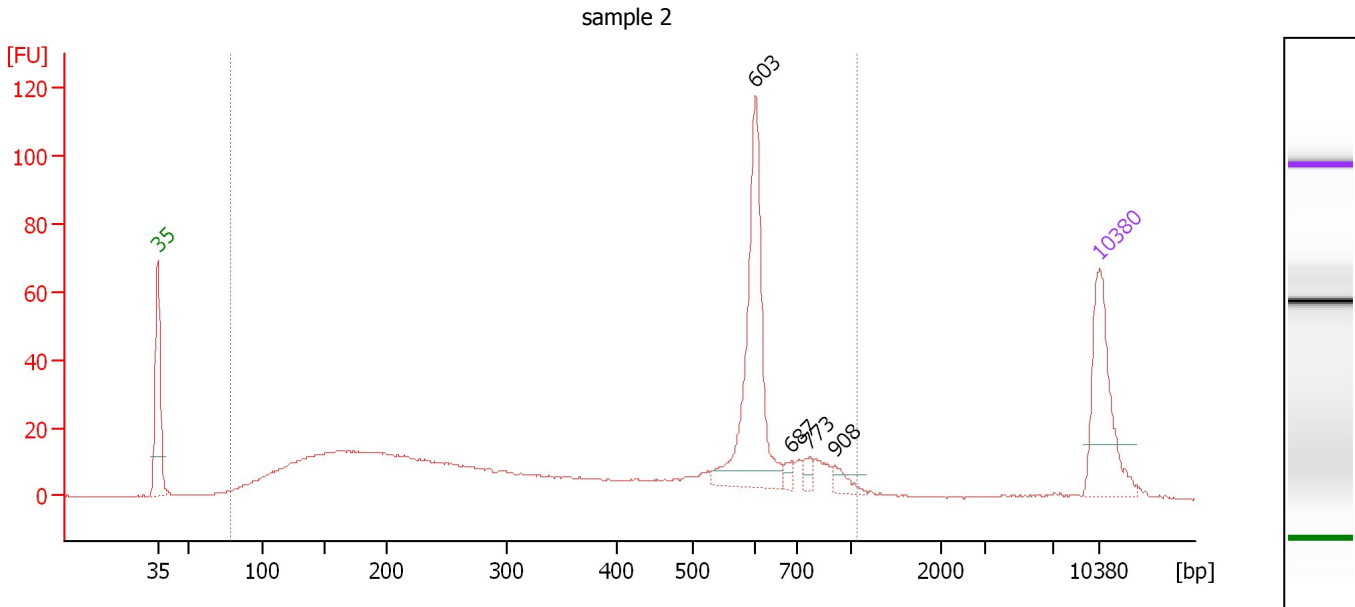| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		600	58.76	148.4	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 1 :　　sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
96	1,180	405	4,734.2	897.50	642.5	96	46.6	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad

Created: 9/18/2013 11:29:03 AM
Modified: 9/18/2013 12:11:32 PM

Electropherogram Summary Continued ...

sample 2

Overall Results for sample 2 : sample 2

Number of peaks found:	4	Corr. Area 1:	708.4
Noise:	0.2		

Peak table for sample 2 : sample 2

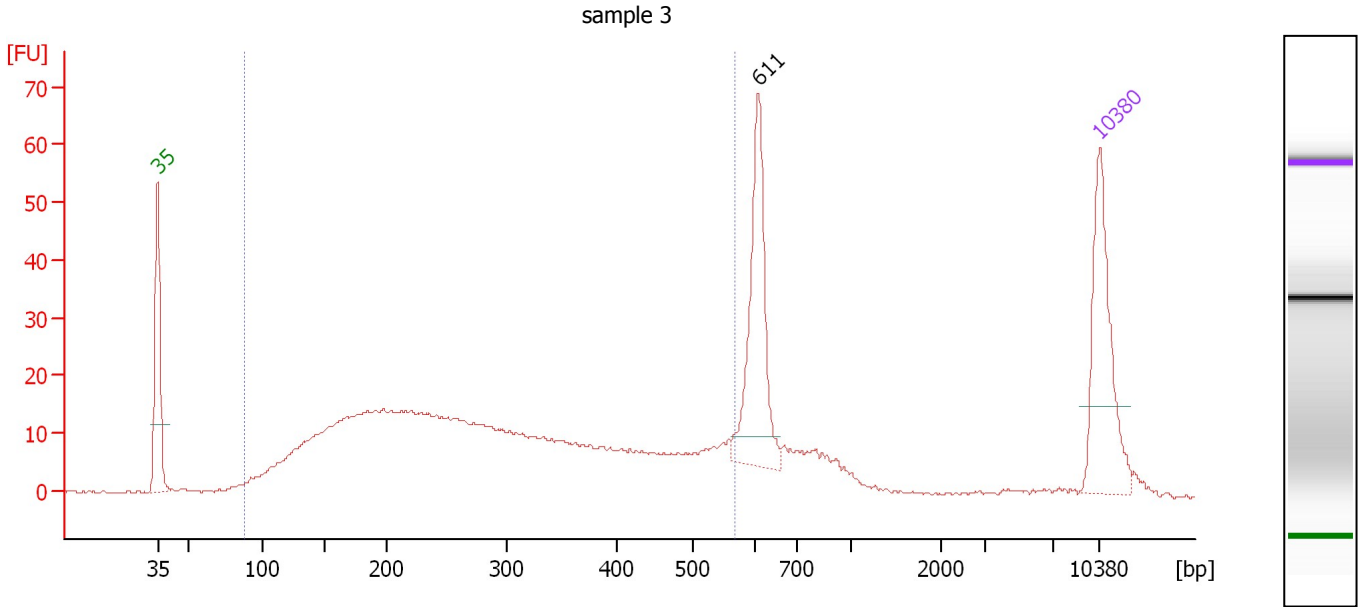| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		603	183.58	461.2	
3		687	7.13	15.7	
4		773	8.54	16.7	
5		908	11.13	18.6	
6	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
78	1,061	426	5,775.5	913.24	708.4	96	52.4	■

Assay Class:　　　High Sensitivity DNA Assay　　　　　　　　　　　　　　Created:　9/18/2013 11:29:03 AM
Data Path:　　　　C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad　　Modified:　9/18/2013 12:11:32 PM

Electropherogram Summary Continued ...

sample 3

Overall Results for sample 3 :　　　sample 3

Number of peaks found:	1	Corr. Area 1:	536.4
Noise:	0.2		

Peak table for sample 3 :　　　sample 3

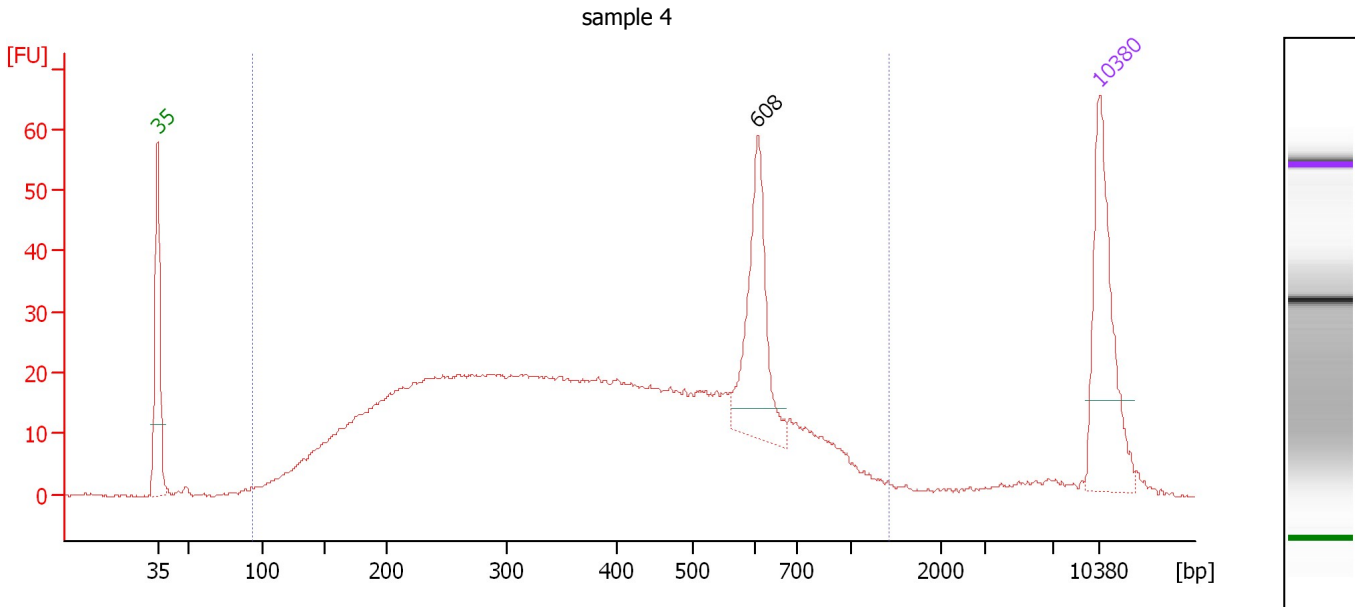| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		611	113.35	281.3	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 3 :　　　sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
88	570	289	5,770.8	838.27	536.4	75	41.4	■

Electropherogram Summary Continued ...

sample 4

Overall Results for sample 4 :   sample 4

Number of peaks found:	1	Corr. Area 1:	998.0
Noise:	0.2		

Peak table for sample 4 :   sample 4

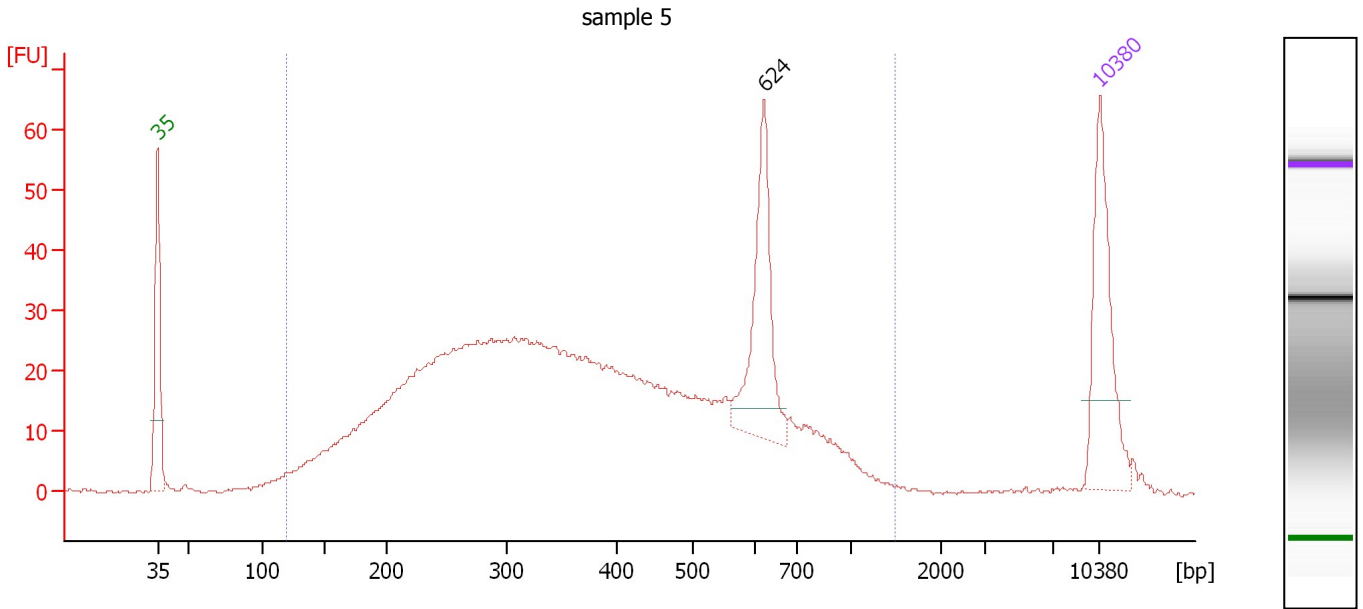| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		608	94.20	234.6	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 4 :   sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
94	1,421	414	6,612.6	1,269.37	998.0	96	48.7	■

Electropherogram Summary Continued ...

sample 5

Overall Results for sample 5 :   sample 5

Number of peaks found:	1	Corr. Area 1:	1,050.9
Noise:	0.3		

Peak table for sample 5 :   sample 5

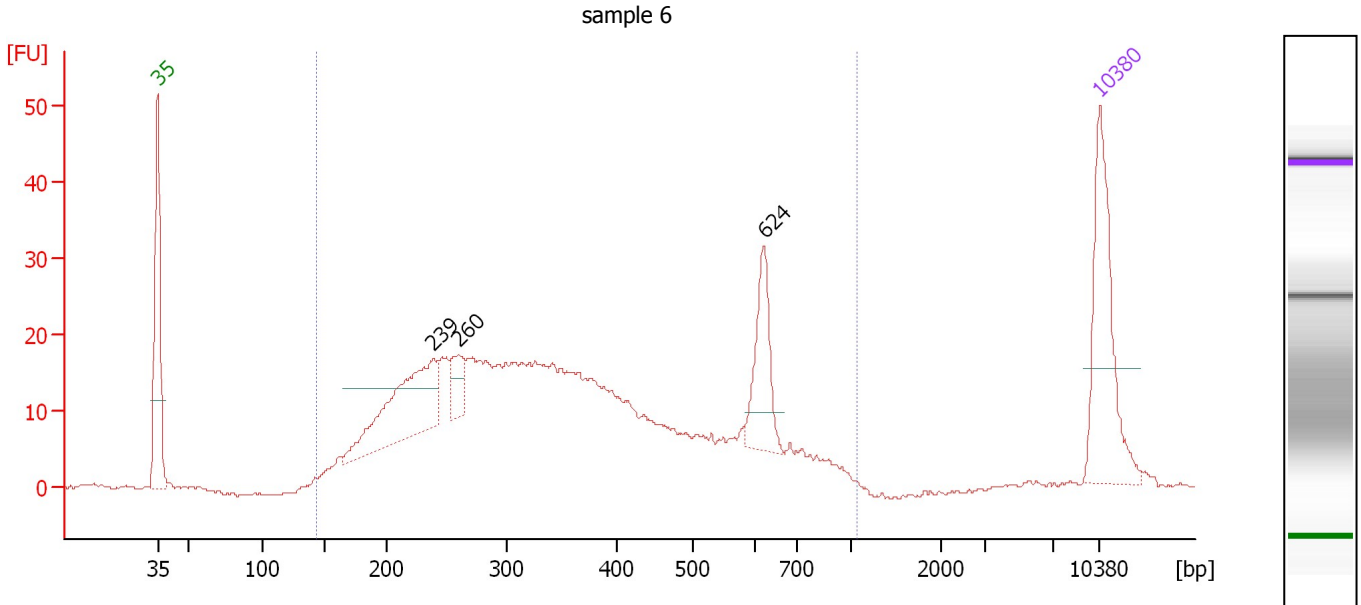| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		624	103.27	250.8	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 5 :   sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
120	1,501	414	7,100.2	1,431.32	1,050.9	97	47.7	◼

Assay Class: High Sensitivity DNA Assay   Created: 9/18/2013 11:29:03 AM
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad   Modified: 9/18/2013 12:11:32 PM

Electropherogram Summary Continued ...

sample 6

Overall Results for sample 6 :   sample 6

Number of peaks found:	3	Corr. Area 1:	579.7
Noise:	0.3		

Peak table for sample 6 :   sample 6

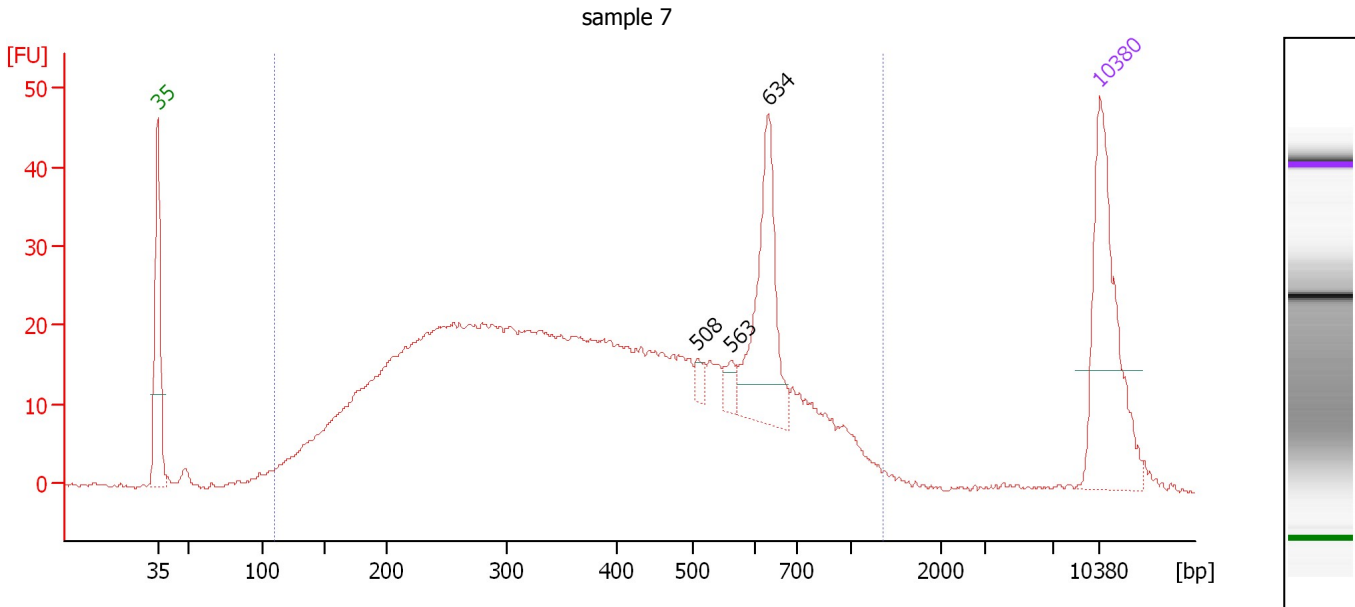| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		239	116.19	735.9	
3		260	23.15	134.9	
4		624	53.24	129.3	
5	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 6 :   sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
144	1,071	377	5,024.2	1,001.58	579.7	99	41.9	■

Assay Class: High Sensitivity DNA Assay   Created: 9/18/2013 11:29:03 AM
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad   Modified: 9/18/2013 12:11:32 PM

Electropherogram Summary Continued ...

sample 7

Overall Results for sample 7 :   sample 7

Number of peaks found:	3	Corr. Area 1:	950.8
Noise:	0.3		

Peak table for sample 7 :   sample 7

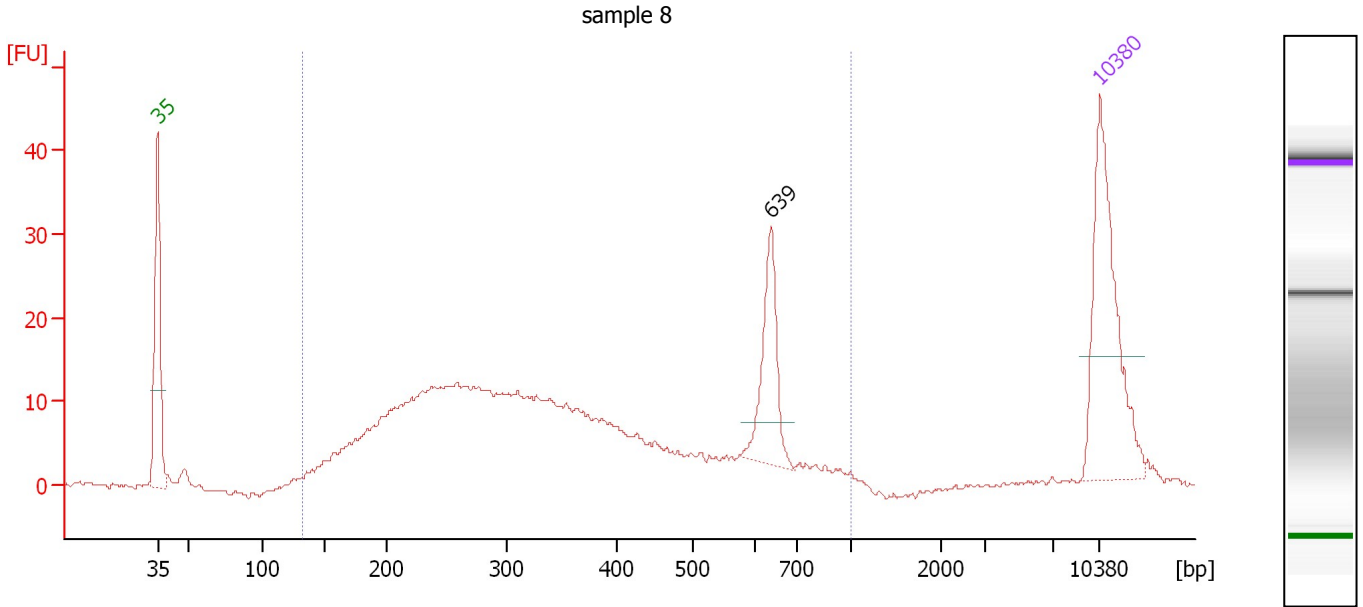| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1 ◄	35	125.00	5,411.3	Lower Marker
2	508	6.37	19.0	
3	563	8.06	21.7	
4	634	80.57	192.5	
5 ▶	10,380	75.00	10.9	Upper Marker

Region table for sample 7 :   sample 7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
110	1,351	415	6,667.8	1,306.02	950.8	97	48.8	■

Electropherogram Summary Continued ...

sample 8

Overall Results for sample 8 : sample 8

Number of peaks found:	1	Corr. Area 1:	395.6
Noise:	0.3		

Peak table for sample 8 : sample 8

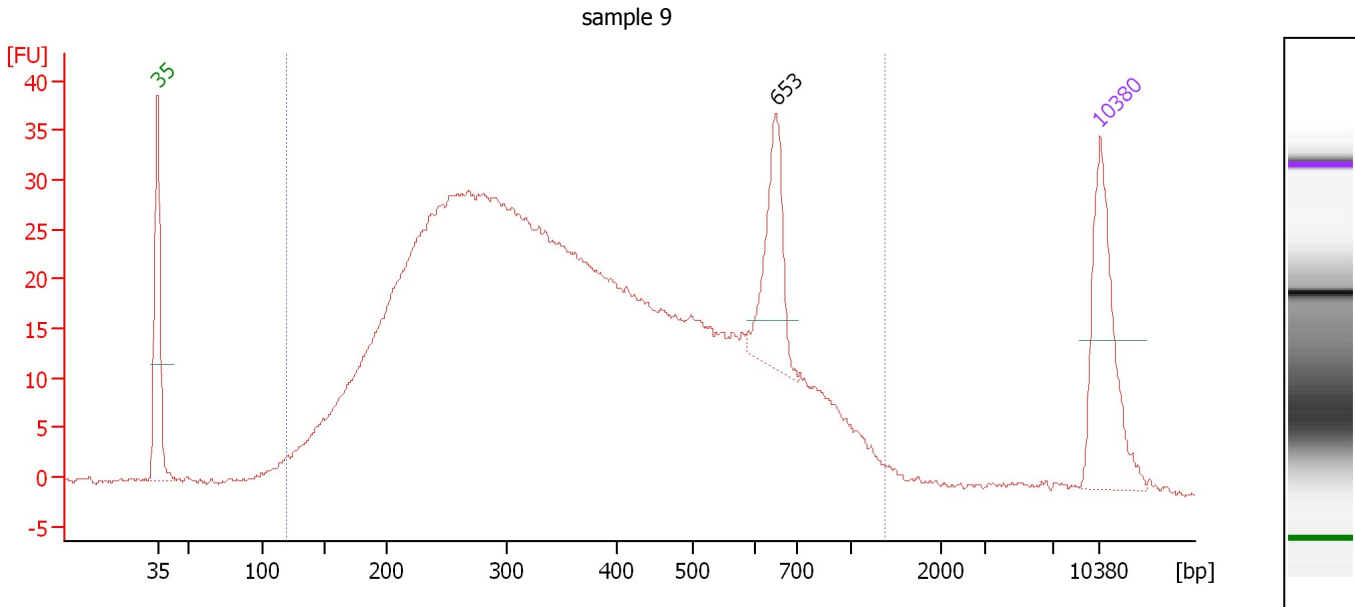| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		639	49.12	116.5	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
133	1,000	371	3,216.3	610.91	395.6	98	44.2	■

Assay Class:　　　High Sensitivity DNA Assay　　　　　　　　　　　　　　　　Created:　9/18/2013 11:29:03 AM
Data Path:　　　　C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad　　　Modified:　9/18/2013 12:11:32 PM

Electropherogram Summary Continued ...

sample 9

Overall Results for sample 9 :　　sample 9

Number of peaks found:	1	Corr. Area 1:	1,067.3
Noise:	0.3		

Peak table for sample 9 :　　sample 9

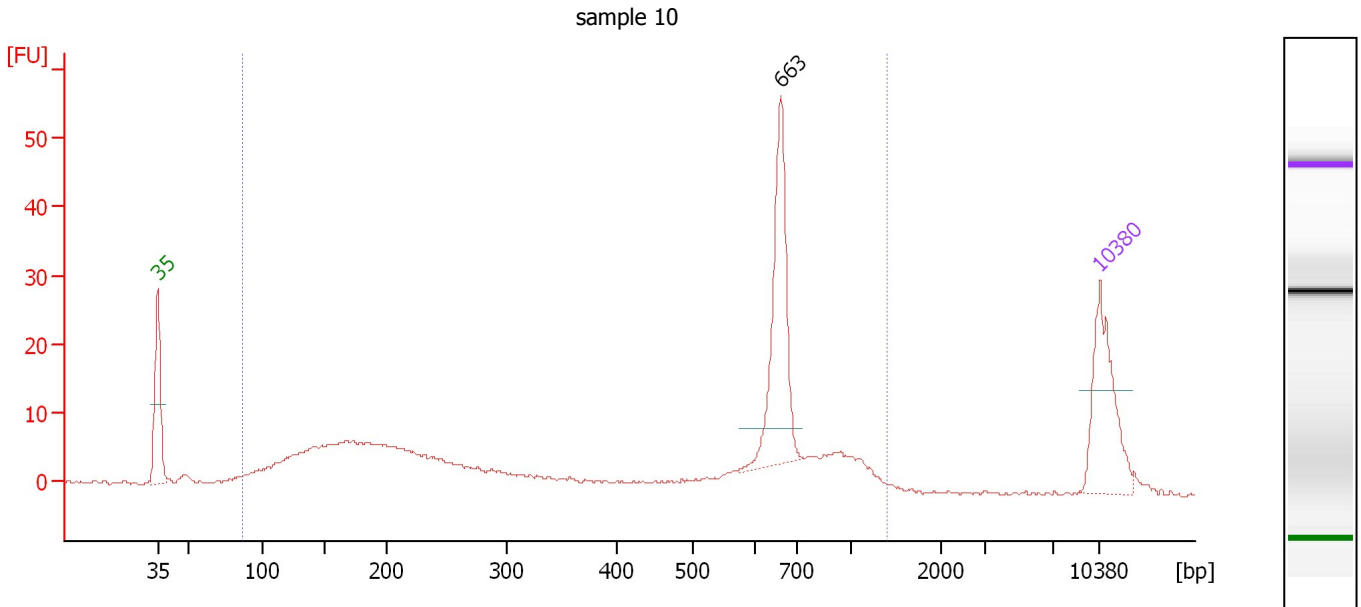| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		653	73.91	171.5	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 9 :　　sample 9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
120	1,386	399	11,150.2	2,203.41	1,067.3	98	48.5	▪

Electropherogram Summary Continued ...

sample 10

Overall Results for sample 10 :   sample 10

Number of peaks found:	1	Corr. Area 1:	287.9
Noise:	0.3		

Peak table for sample 10 :   sample 10

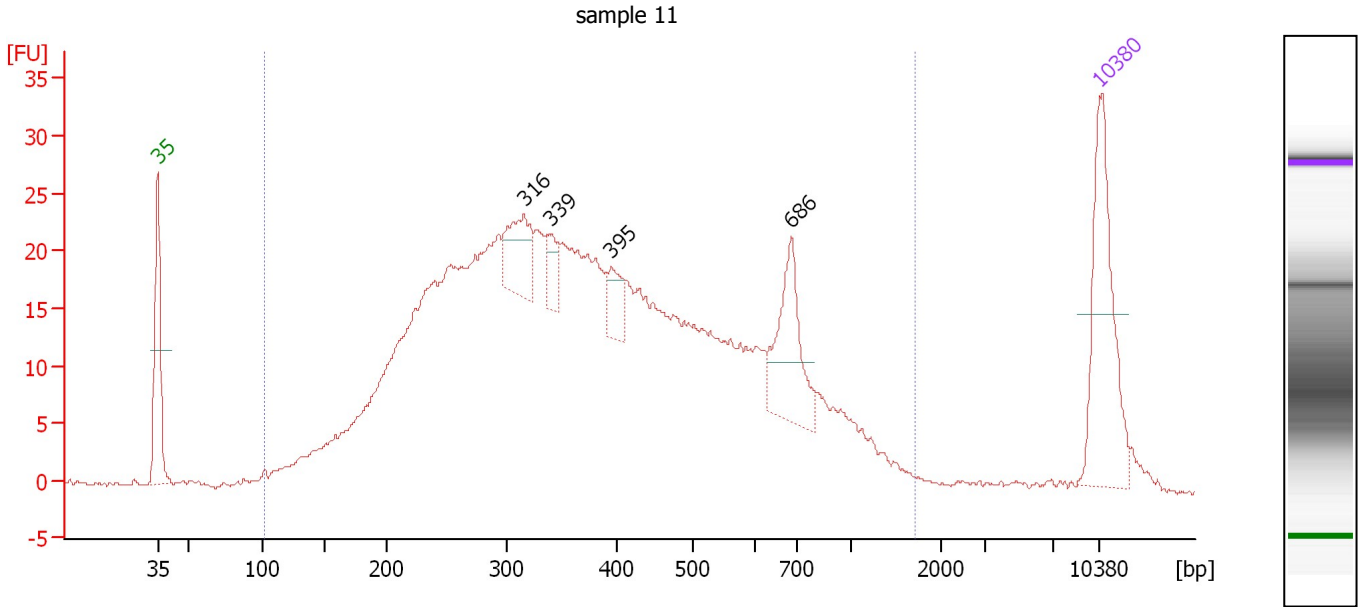| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		663	144.09	329.4	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 10 :   sample 10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
87	1,393	485	4,532.3	731.57	287.9	94	58.2	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad

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Electropherogram Summary Continued ...

sample 11

Overall Results for sample 11 :   sample 11

Number of peaks found:	4	Corr. Area 1:	802.8
Noise:	0.2		

Peak table for sample 11 :   sample 11

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		316	44.28	212.4	
3		339	16.89	75.4	
4		395	19.29	74.0	
5		686	62.55	138.1	
6	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 11 :   sample 11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
102	1,723	421	8,844.8	1,829.16	802.8	98	52.0	■

| Assay Class: | High Sensitivity DNA Assay | | Created: | 9/18/2013 11:29:03 AM |
| Data Path: | C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad | | Modified: | 9/18/2013 12:11:32 PM |

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