Assay Class:	High Sensitivity DNA Assay	Created: 6/26/2015 10:57:46 AM
Data Path:	C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad	Modified: 6/26/2015 11:39:22 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:

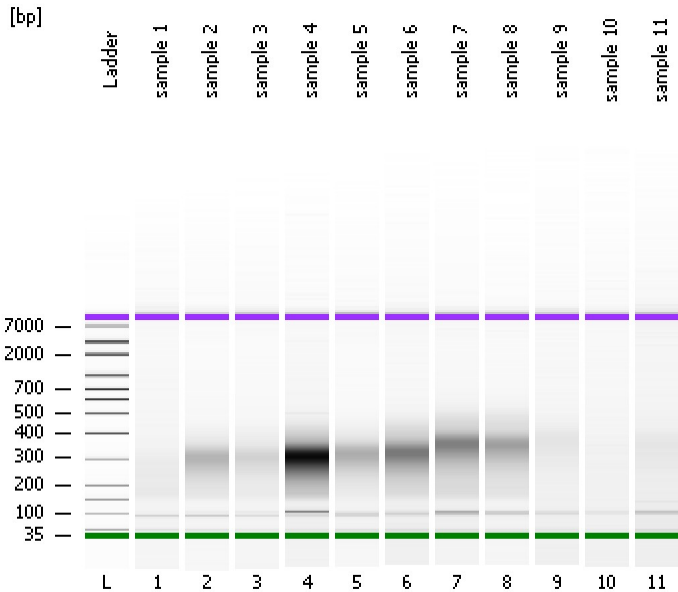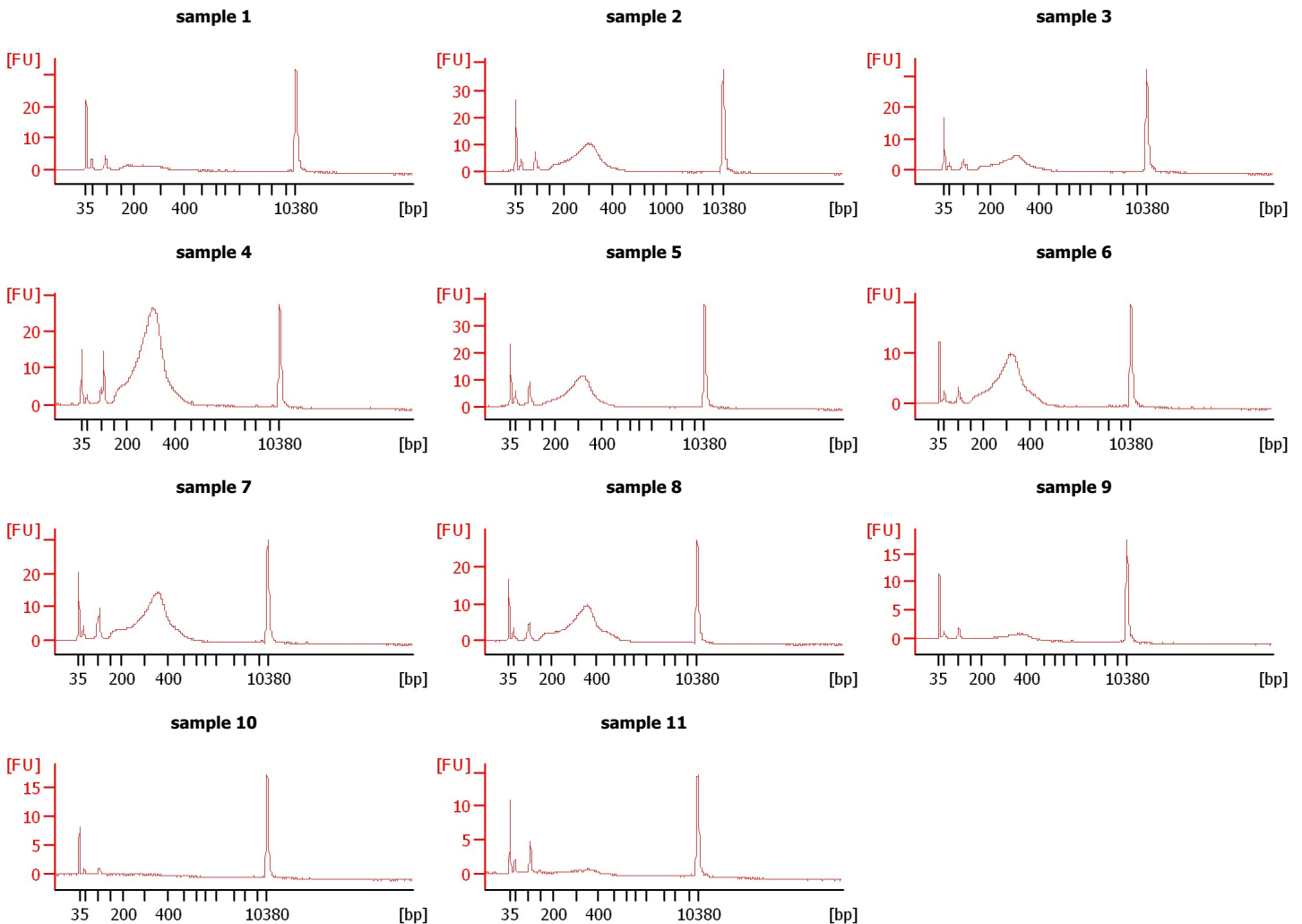Chip Lot #:

Reagent Kit Lot #:

Chip Comments:

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad

Created: 6/26/2015 10:57:46 AM
Modified: 6/26/2015 11:39:22 AM

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\2015-06-26\2015-06-26_001.xad

Created: 6/26/2015 10:57:46 AM
Modified: 6/26/2015 11:39:22 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\2015-06-26\2015-06-26_001.xad

Created: 6/26/2015 10:57:46 AM
Modified: 6/26/2015 11:39:22 AM

Electropherogram Summary
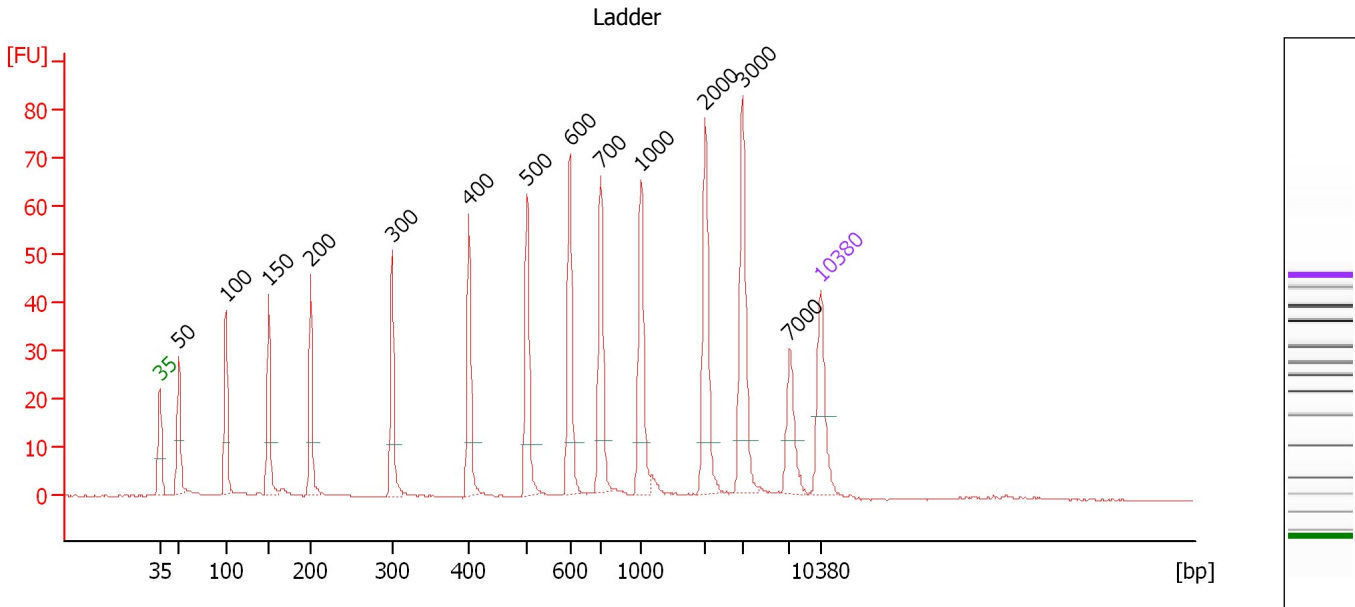
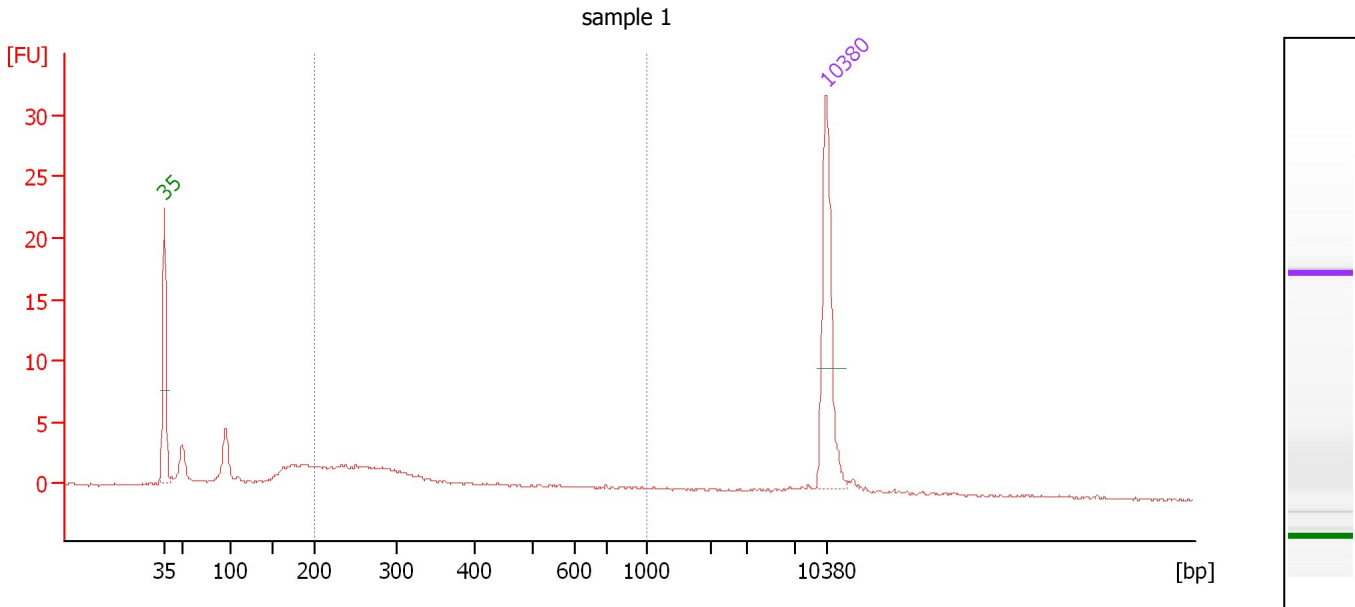**Overall Results for Ladder**

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	L 50	150.00	4,545.5	Ladder Peak	44.98
3	L 100	150.00	2,272.7	Ladder Peak	50.00
4	L 150	150.00	1,515.2	Ladder Peak	54.52
5	L 200	150.00	1,136.4	Ladder Peak	58.98
6	L 300	150.00	757.6	Ladder Peak	67.61
7	L 400	150.00	568.2	Ladder Peak	75.74
8	L 500	150.00	454.5	Ladder Peak	81.90
9	L 600	150.00	378.8	Ladder Peak	86.41
10	L 700	150.00	324.7	Ladder Peak	89.69
11	L 1,000	150.00	227.3	Ladder Peak	93.92
12	L 2,000	150.00	113.6	Ladder Peak	100.75
13	L 3,000	150.00	75.8	Ladder Peak	104.70
14	L 7,000	150.00	32.5	Ladder Peak	109.67
15	▶ 10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad

Created: 6/26/2015 10:57:46 AM
Modified: 6/26/2015 11:39:22 AM

Electropherogram Summary Continued ...

sample 1

Overall Results for sample 1 :   sample 1

Number of peaks found:	0	Corr. Area 1:	36.8
Noise:	0.1		

Peak table for sample 1 :   sample 1

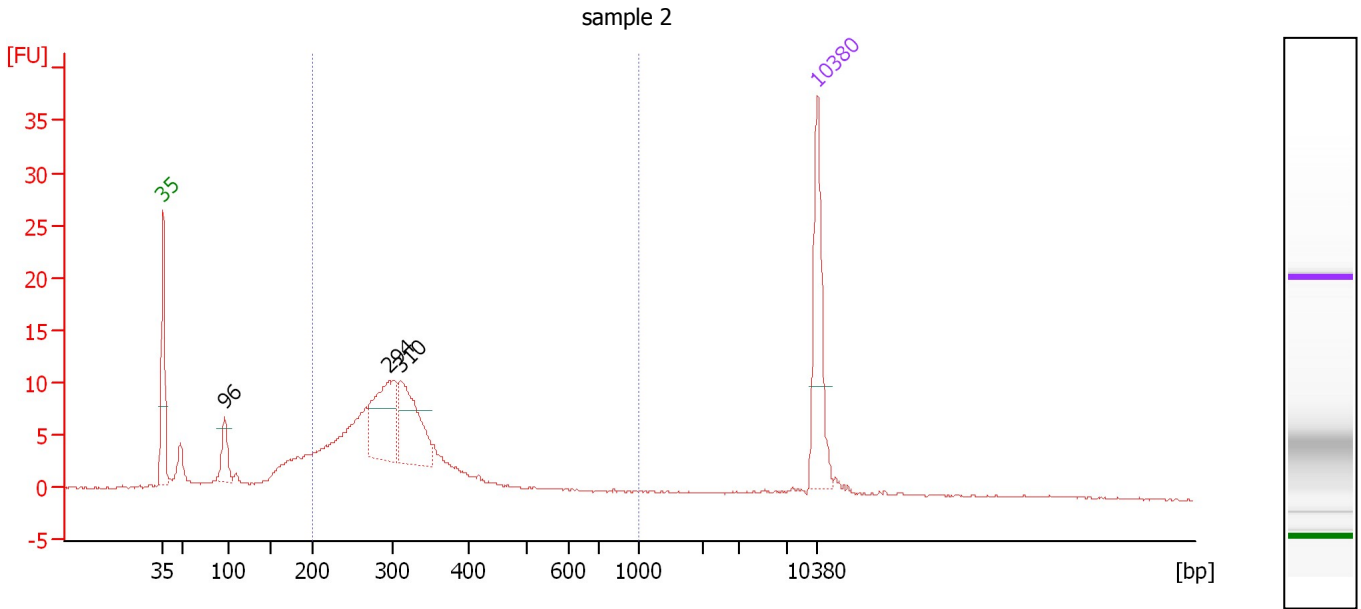| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1 ◀	35	125.00	5,411.3	Lower Marker	43.00
2 ▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 1 :   sample 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	351	1,000	36.8	734.5	■ 48	45.8	141.78

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad

Created: 6/26/2015 10:57:46 AM
Modified: 6/26/2015 11:39:22 AM

Electropherogram Summary Continued ...

sample 2

Overall Results for sample 2 :   sample 2

Number of peaks found:	3	Corr. Area 1:	155.7
Noise:	0.1		

Peak table for sample 2 :   sample 2

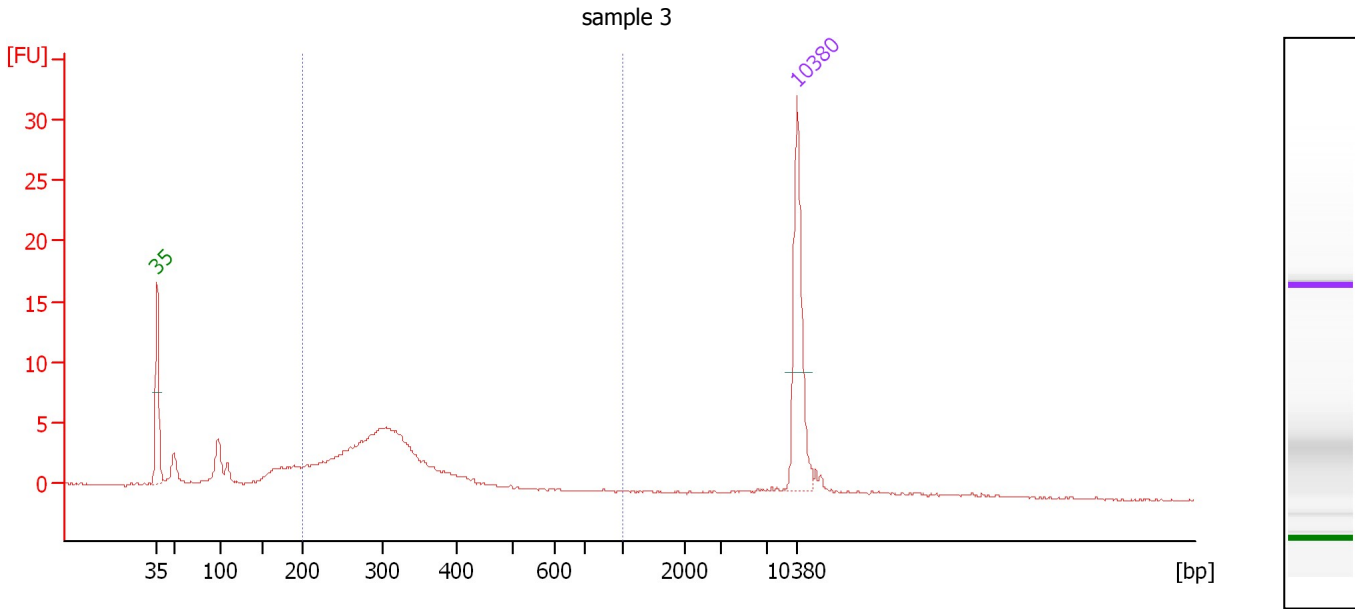| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1 ◄	35	125.00	5,411.3	Lower Marker	43.00
2	96	37.30	587.6		49.62
3	294	101.71	523.4		67.13
4	310	91.38	447.3		68.39
5 ▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 2 :   sample 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	311	1,000	155.7	2,830.4	▨72	27.7	545.02

Assay Class: High Sensitivity DNA Assay   Created: 6/26/2015 10:57:46 AM
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad   Modified: 6/26/2015 11:39:22 AM

Electropherogram Summary Continued ...

sample 3

Overall Results for sample 3 :   **sample 3**

Number of peaks found:	0	Corr. Area 1:	78.1
Noise:	0.1		

Peak table for sample 3 :   **sample 3**

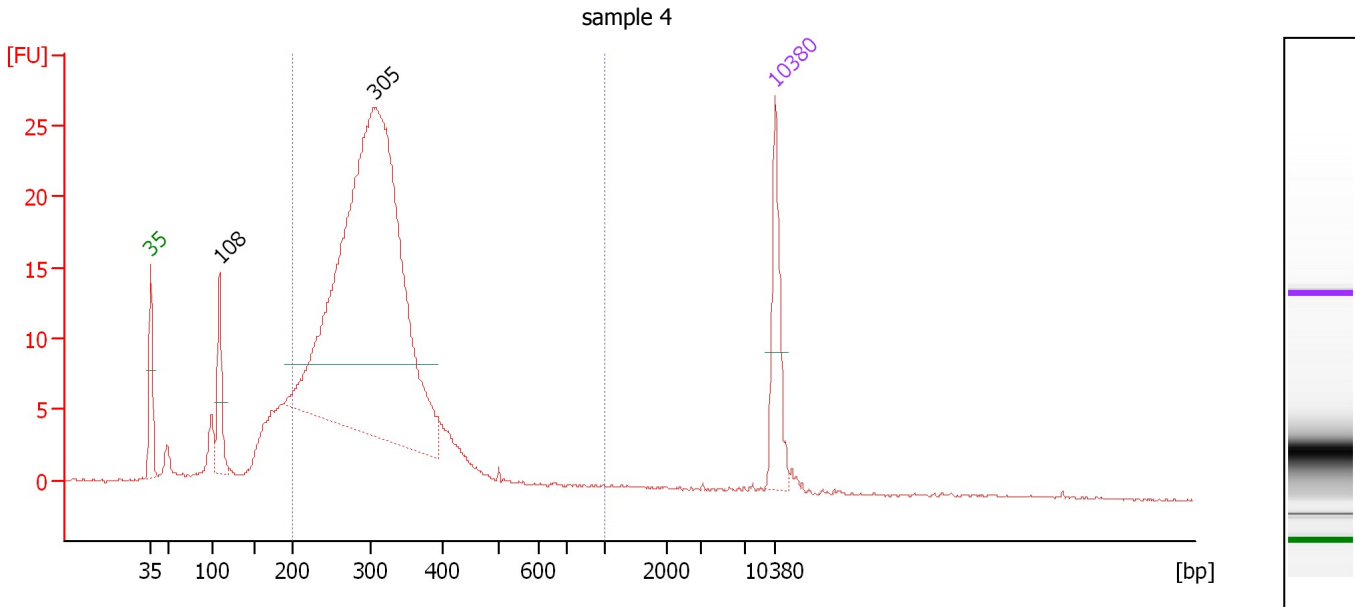| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◄	35	125.00	5,411.3	Lower Marker	43.00
2	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 3 :   **sample 3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	318	1,000	78.1	1,657.7	◼ 66	28.0	324.48

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad

Created: 6/26/2015 10:57:46 AM
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Electropherogram Summary Continued ...

sample 4

Overall Results for sample 4 :   sample 4

Number of peaks found:	2	Corr. Area 1:	363.0
Noise:	0.1		

Peak table for sample 4 :   sample 4

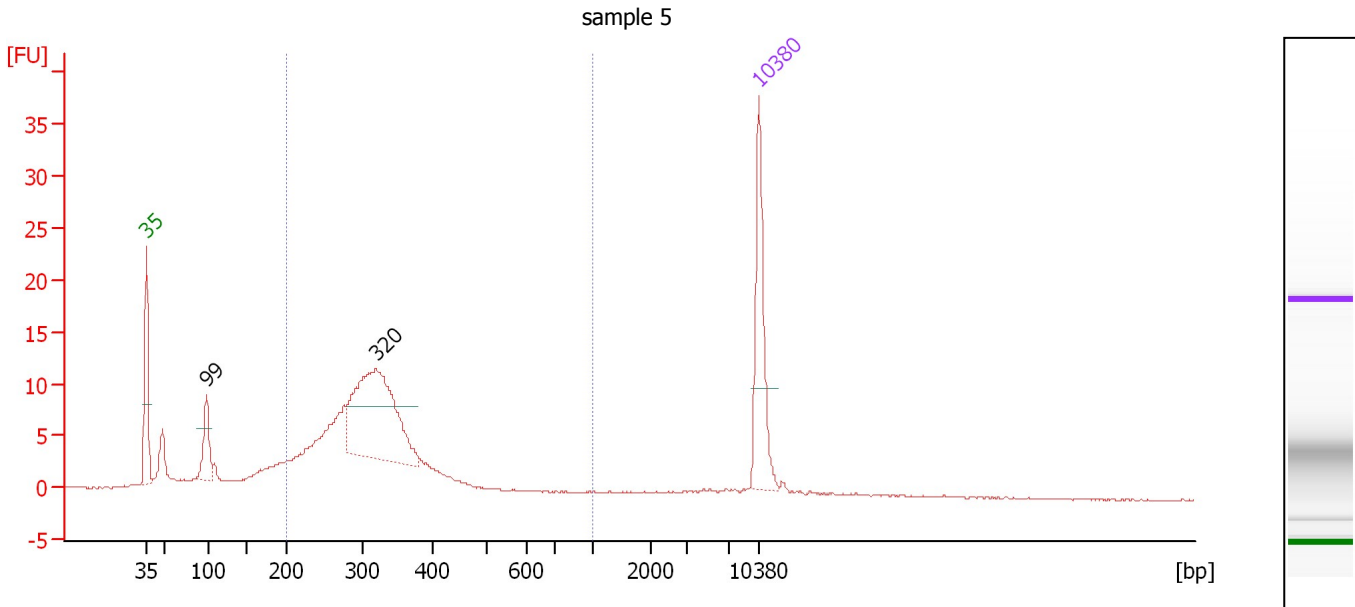| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		108	89.78	1,261.0		50.71
3		305	1,256.80	6,251.5		67.99
4	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 :   sample 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	307	1,000	363.0	9,225.6	■83	21.8	1,790.82

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad

Created: 6/26/2015 10:57:46 AM
Modified: 6/26/2015 11:39:22 AM

Electropherogram Summary Continued ...

sample 5

Overall Results for sample 5 :   sample 5

Number of peaks found:	2	Corr. Area 1:	163.0
Noise:	0.1		

Peak table for sample 5 :   sample 5

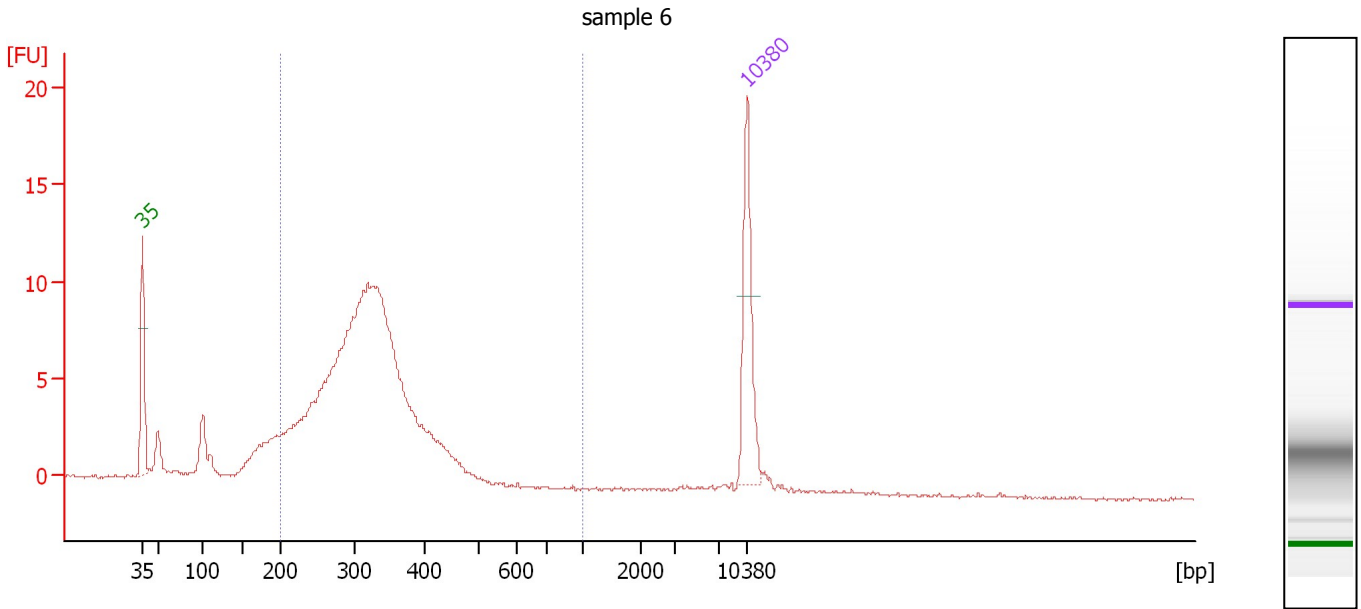| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	99	51.82	793.8		49.89
3	320	222.17	1,052.7		69.22
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 :   sample 5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	315	1,000	163.0	2,922.6	73	22.4	578.48

Electropherogram Summary Continued ...

sample 6

Overall Results for sample 6 :   sample 6

Number of peaks found:	0	Corr. Area 1:	143.9
Noise:	0.1		

Peak table for sample 6 :   sample 6

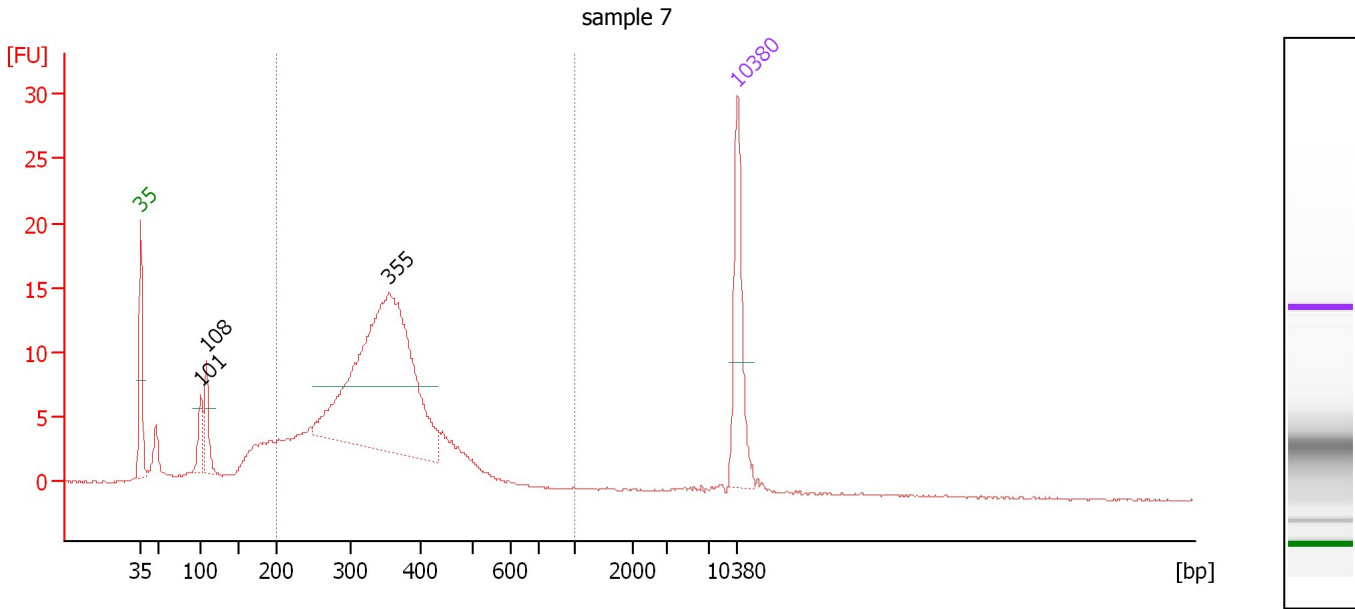| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◄	35	125.00	5,411.3	Lower Marker	43.00
2	▶🔒	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 :   sample 6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	318	1,000	143.9	4,534.9	■ 84	18.5	910.88

Electropherogram Summary Continued ...

sample 7

Overall Results for sample 7 :   sample 7

Number of peaks found:	3	Corr. Area 1:	224.6
Noise:	0.1		

Peak table for sample 7 :   sample 7

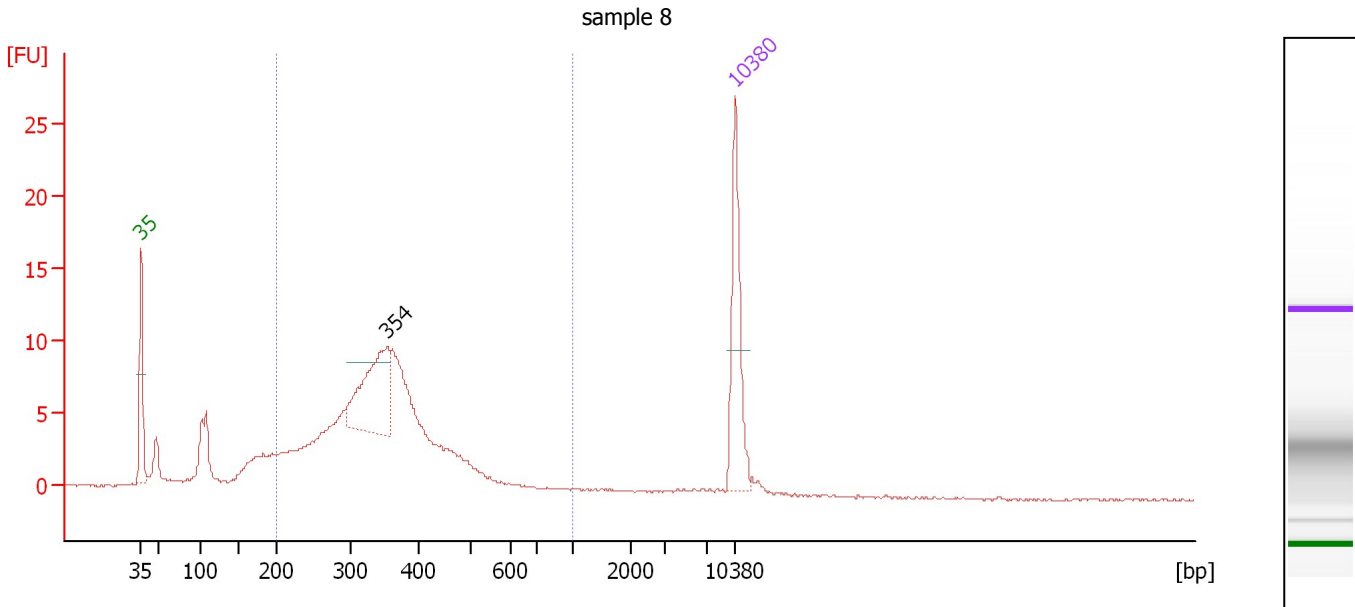| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		101	34.74	522.8		50.06
3		108	48.07	676.8		50.69
4		355	459.79	1,963.8		72.06
5	▶🔒	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 :   sample 7

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	348	1,000	224.6	4,134.4	▪ 79	22.8	889.23

Assay Class: High Sensitivity DNA Assay   Created: 6/26/2015 10:57:46 AM
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Electropherogram Summary Continued ...

Overall Results for sample 8 :   sample 8

Number of peaks found: 1   Corr. Area 1:   153.7
Noise: 0.1

Peak table for sample 8 :   sample 8

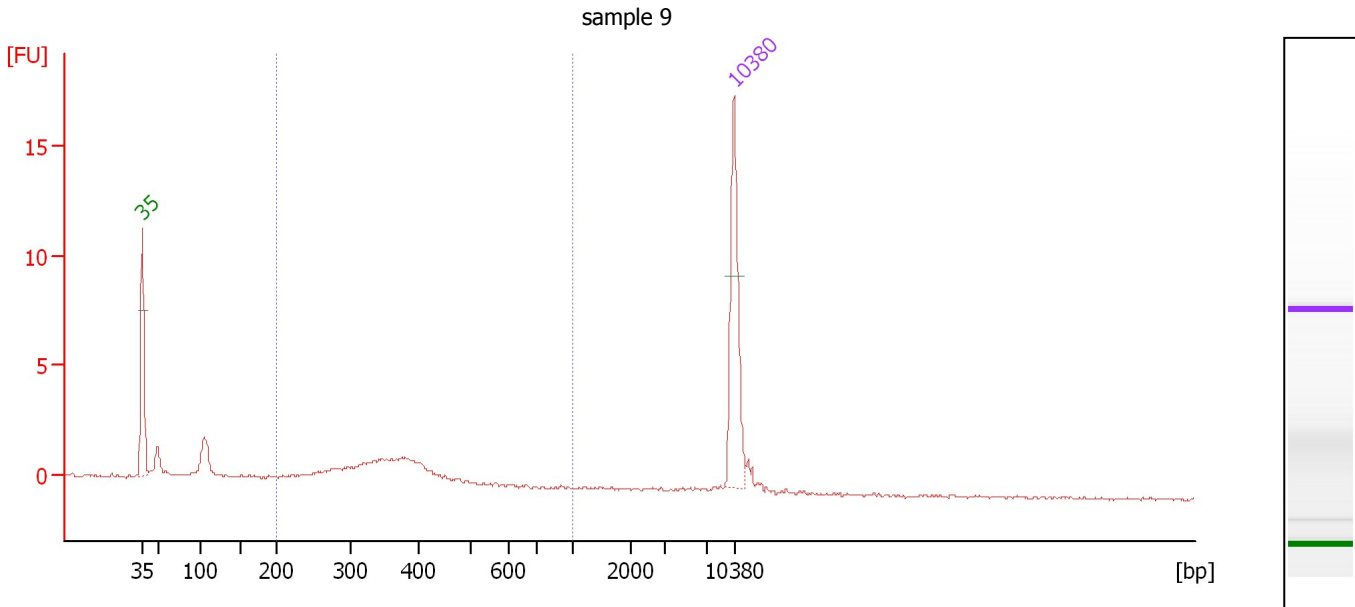| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		354	117.39	502.4		72.00
3	▶🔒	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 :   sample 8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	352	1,000	153.7	3,238.6	🟦79	25.4	698.30

Assay Class: High Sensitivity DNA Assay   Created: 6/26/2015 10:57:46 AM
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad   Modified: 6/26/2015 11:39:22 AM

Electropherogram Summary Continued ...

sample 9

Overall Results for sample 9 :   sample 9

Number of peaks found:	0	Corr. Area 1:	17.3
Noise:	0.1		

Peak table for sample 9 :   sample 9

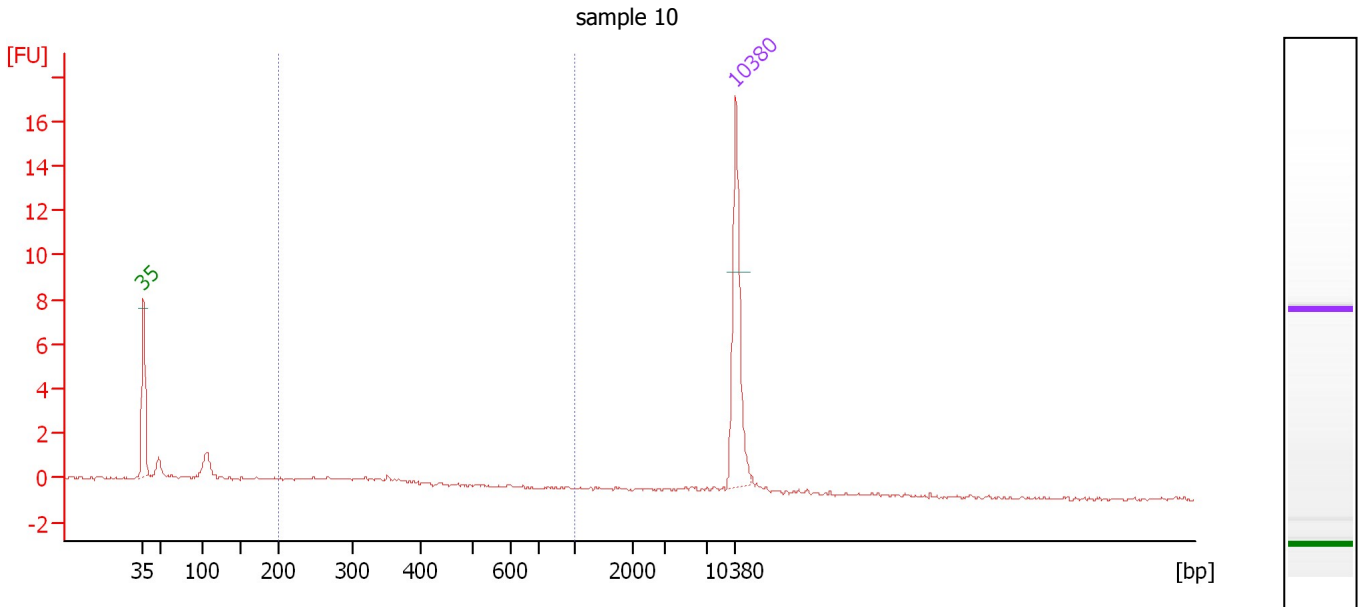| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2	▶🔒	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 :   sample 9

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	347	1,000	17.3	582.6	■ 61	19.2	126.92

Assay Class: High Sensitivity DNA Assay   Created: 6/26/2015 10:57:46 AM
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad   Modified: 6/26/2015 11:39:22 AM

Electropherogram Summary Continued ...

Overall Results for sample 10 :   sample 10

Number of peaks found:	0	Corr. Area 1:	5.8
Noise:	0.1		

Peak table for sample 10 :   sample 10

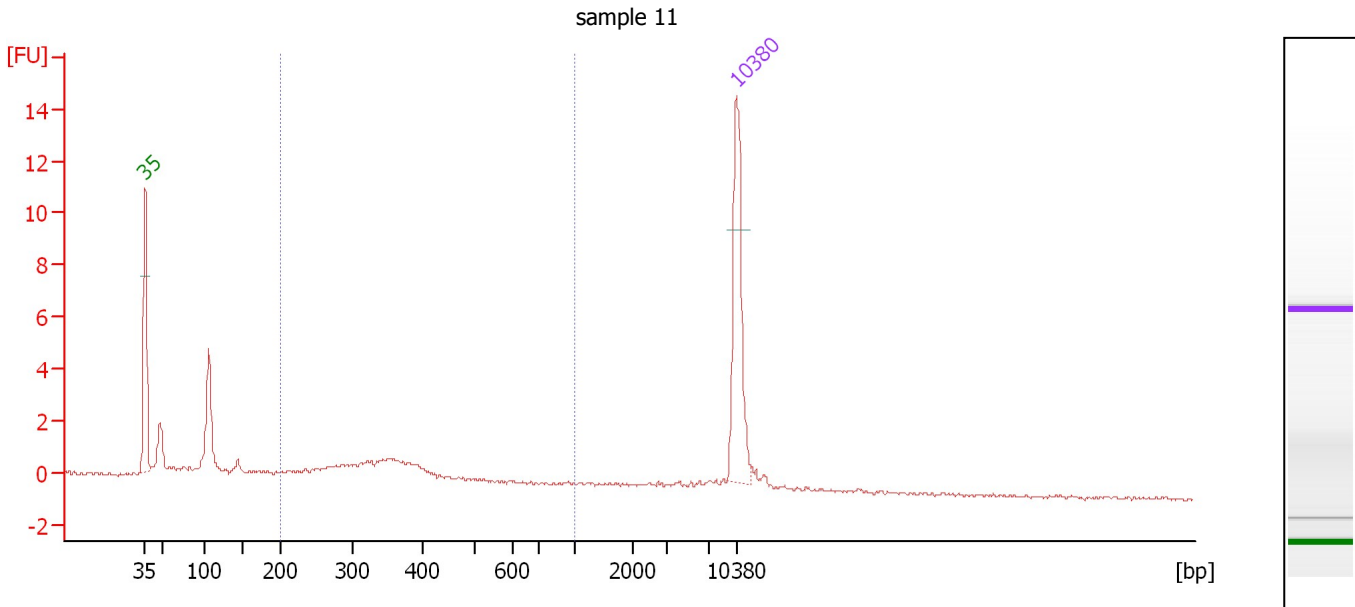| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 10 :   sample 10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	337	1,000	5.8	237.1	36	33.3	47.39

Electropherogram Summary Continued ...

sample 11

Overall Results for sample 11 :   sample 11

Number of peaks found:	0	Corr. Area 1:	11.9
Noise:	0.1		

Peak table for sample 11 :   sample 11

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 11 :   sample 11

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	339	1,000	11.9	443.0	■ 44	23.2	93.20

Assay Class: High Sensitivity DNA Assay   Created: 6/26/2015 10:57:46 AM
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-26\2015-06-26_001.xad   Modified: 6/26/2015 11:39:22 AM

Gel Image