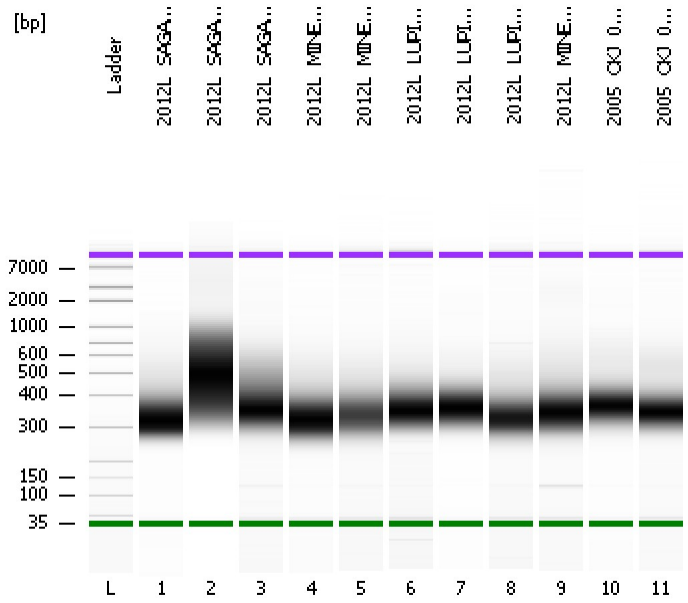
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

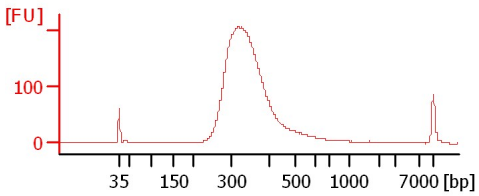
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

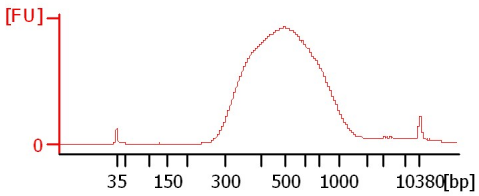
Chip Information:

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

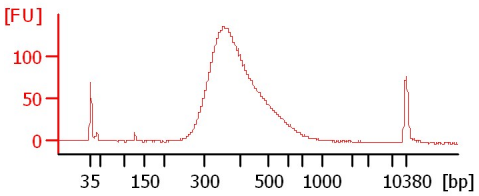
2012L_SAGA_131_NoShear



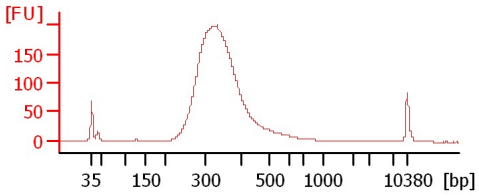
2012L_SAGA_136_NoShear



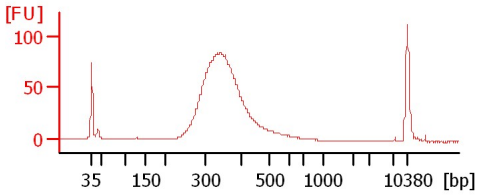
2012L_SAGA_066_NoShear



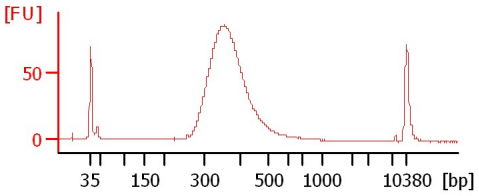
2012L_MINE_111_NoShear



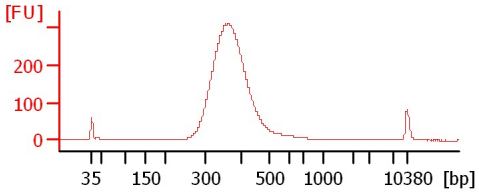
2012L_MINE_101_NoShear



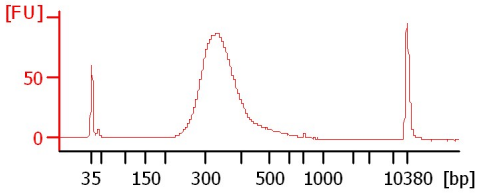
2012L_LUPI_007_NoShear



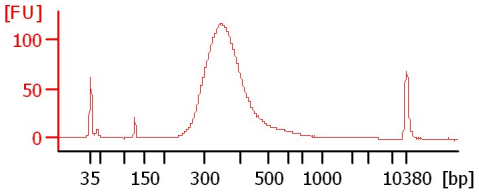
2012L_LUPI_074_NoShear



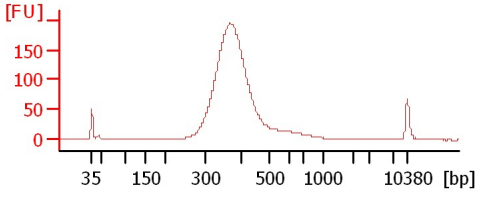
2012L_LUPI_056_NoShear



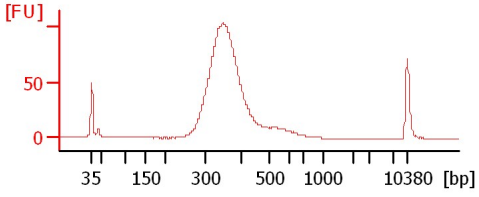
2012L_MINE_099_NoShear



2005_OKJ_017_NoShear



2005_OKJ_045_NoShear



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
2012L_SAGA_131_NoShear		☐	✔			
2012L_SAGA_136_NoShear		☐	✔			
2012L_SAGA_066_NoShear		☐	✔			
2012L_MINE_111_NoShear		☐	✔			
2012L_MINE_101_NoShear		☐	✔			
2012L_LUPI_007_NoShear		☐	✔			
2012L_LUPI_074_NoShear		☐	✔			
2012L_LUPI_056_NoShear		☐	✔			
2012L_MINE_099_NoShear		☐	✔			
2005_OKJ_017_NoShear		☐	✔			
2005_OKJ_045_NoShear		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 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

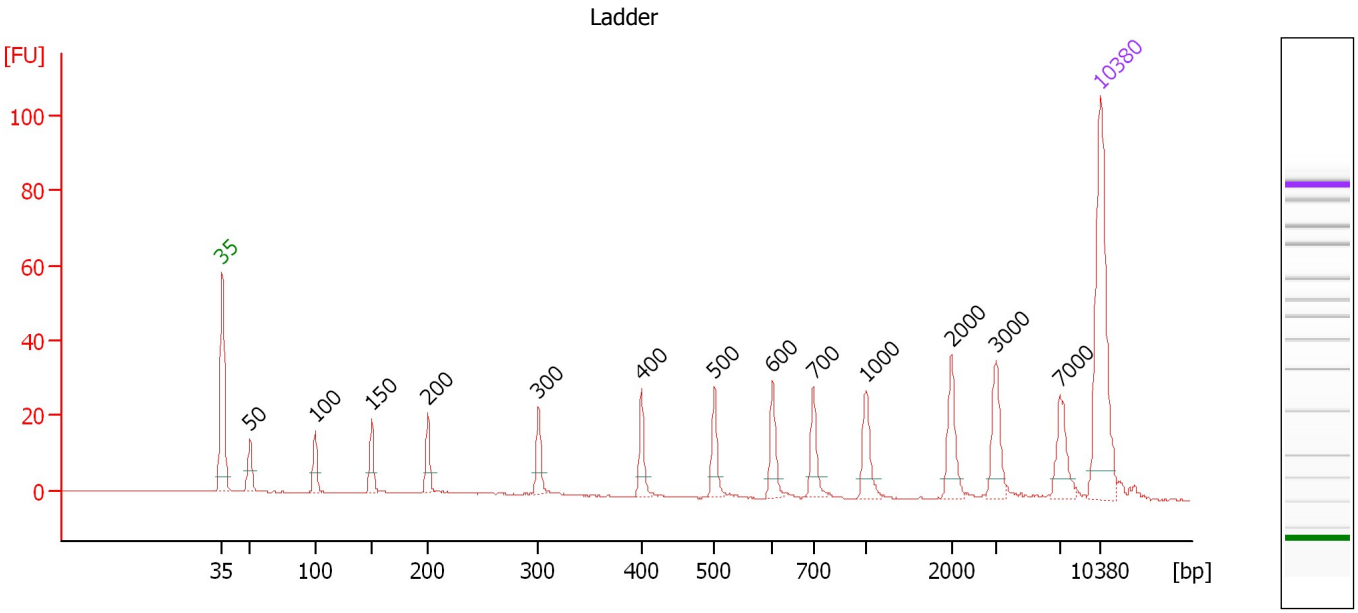
Ladder

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\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

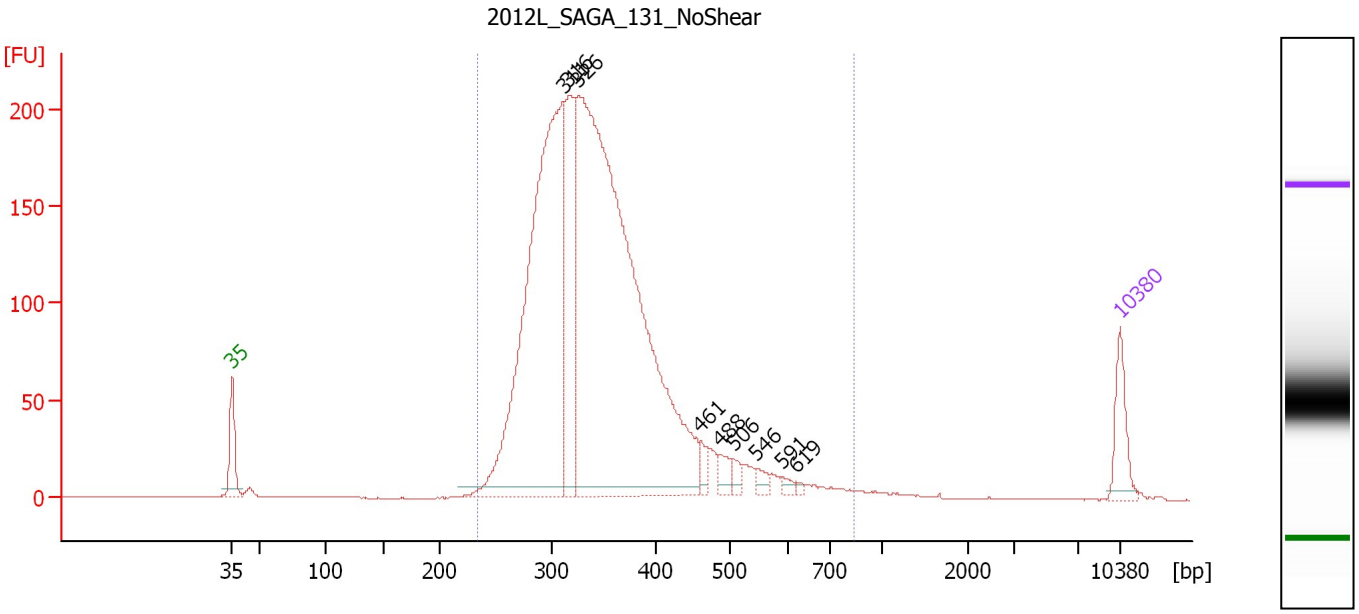
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 2012L_SAGA_131_NoShear

Number of peaks found:	9	Corr. Area 1:	3,082.9
Noise:	0.1		

Peak table for sample 1 : 2012L_SAGA_131_NoShear

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	311	1,561.02	7,604.4	
3	316	397.52	1,905.1	
4	326	2,447.18	11,377.5	
5	461	29.41	96.7	
6	488	38.24	118.8	
7	506	23.97	71.7	
8	546	21.77	60.4	
9	591	11.73	30.1	
10	619	6.45	15.8	
11	10,380	75.00	10.9	Upper Marker

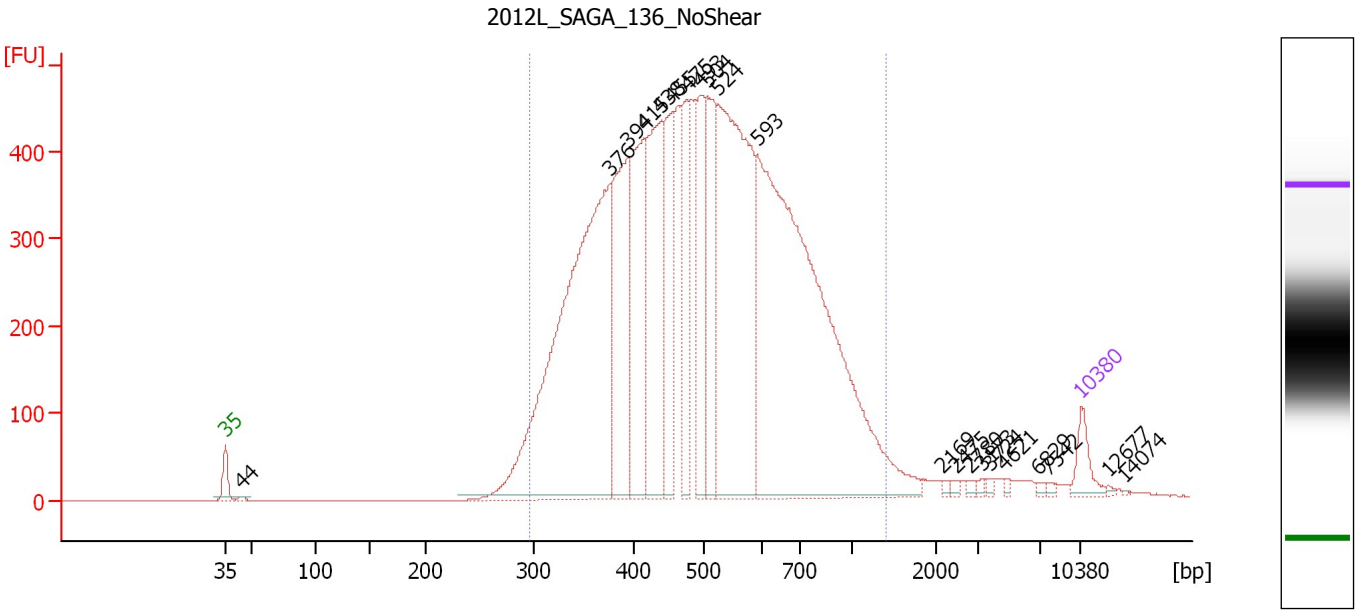
Region table for sample 1 : 2012L_SAGA_131_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
234	838	352	20,828.8	4,616.03	3,082.9	98	21.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2012L_SAGA_136_NoShear

Number of peaks found:	21	Corr. Area 1:	11,407.1
Noise:	0.1		

Peak table for sample 2 : 2012L_SAGA_136_NoShear

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	12.44	426.5	
3	376	2,447.62	9,860.5	
4	394	757.76	2,912.7	
5	415	671.61	2,452.0	
6	438	787.78	2,723.7	
7	455	487.24	1,623.6	
8	475	397.01	1,266.5	
9	493	470.66	1,446.7	
10	504	486.40	1,461.4	
11	524	1,583.10	4,577.2	
12	593	2,715.34	6,940.6	
13	2,169	8.22	5.7	
14	2,475	11.32	6.9	
15	2,780	9.56	5.2	
16	3,173	9.72	4.6	
17	3,724	8.17	3.3	
18	4,621	8.51	2.8	
19	6,829	8.72	1.9	
20	7,542	7.14	1.4	
21	10,380	75.00	10.9	Upper Marker
22	12,677	0.00	0.0	
23	14,074	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...

... Region table for sample 2 : 2012L_SAGA_136_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
298	1,410	530	35,936.6	11,126.73	11,407.1	96	33.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

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Modified: 8/27/2012 5:04:25 PM

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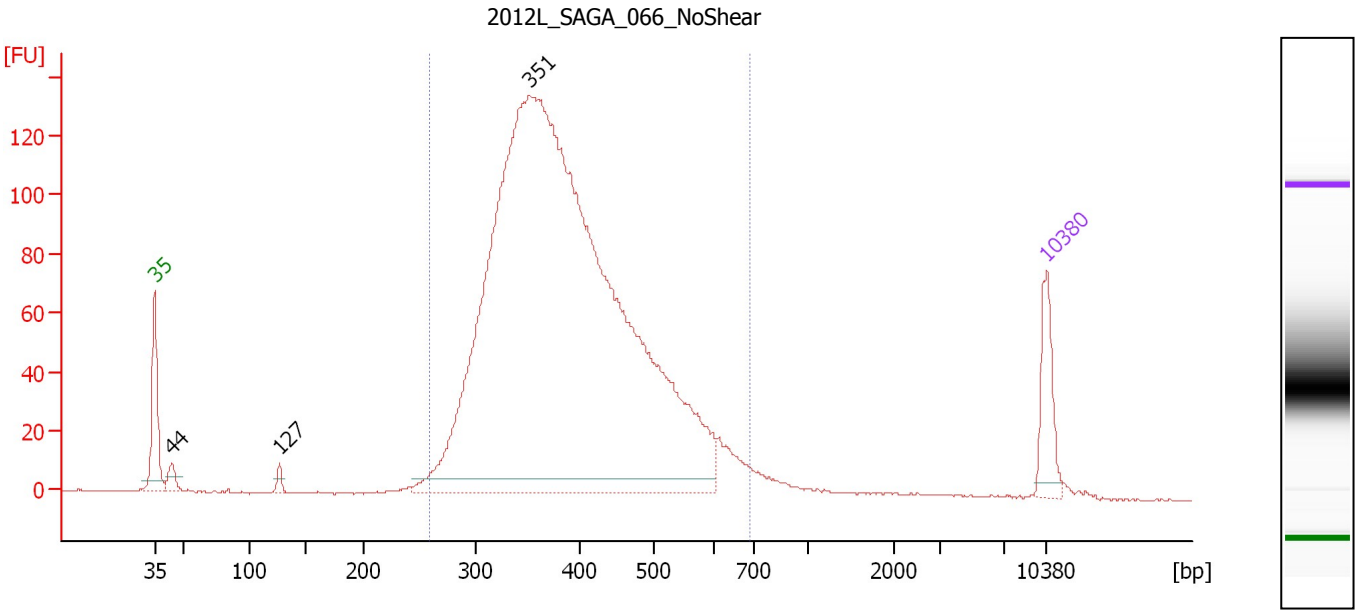


Overall Results for sample 3 : 2012L_SAGA_066_NoShear

Number of peaks found:	3	Corr. Area 1:	2,157.1
Noise:	0.3		

Peak table for sample 3 : 2012L_SAGA_066_NoShear

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		44	34.97	1,200.0	
3		127	16.83	201.2	
4		351	3,455.26	14,907.0	
5	▶	10,380	75.00	10.9	Upper Marker

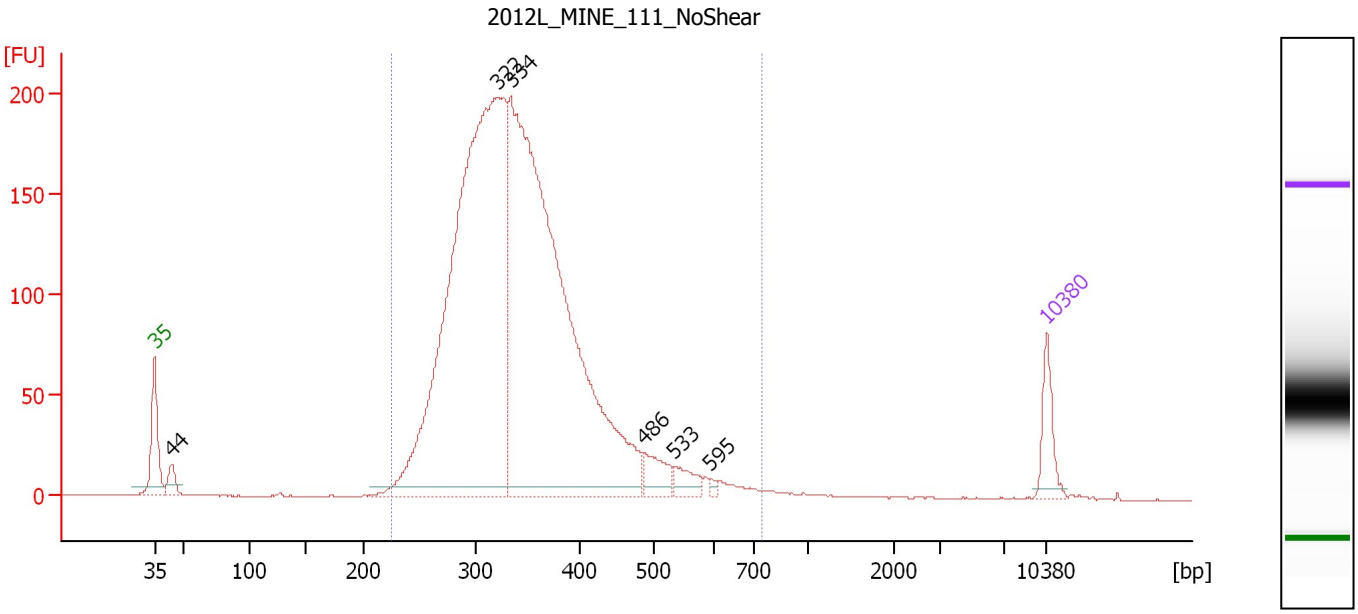
Region table for sample 3 : 2012L_SAGA_066_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
259	687	397	13,482.9	3,362.16	2,157.1	96	20.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 2012L_MINE_111_NoShear

Number of peaks found:	6	Corr. Area 1:	2,963.0
Noise:	0.2		

Peak table for sample 4 : 2012L_MINE_111_NoShear

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		44	55.96	1,918.1	
3		322	2,458.32	11,579.5	
4		334	2,417.68	10,979.4	
5		486	81.31	253.3	
6		533	50.77	144.2	
7		595	8.28	21.1	
8	▶	10,380	75.00	10.9	Upper Marker

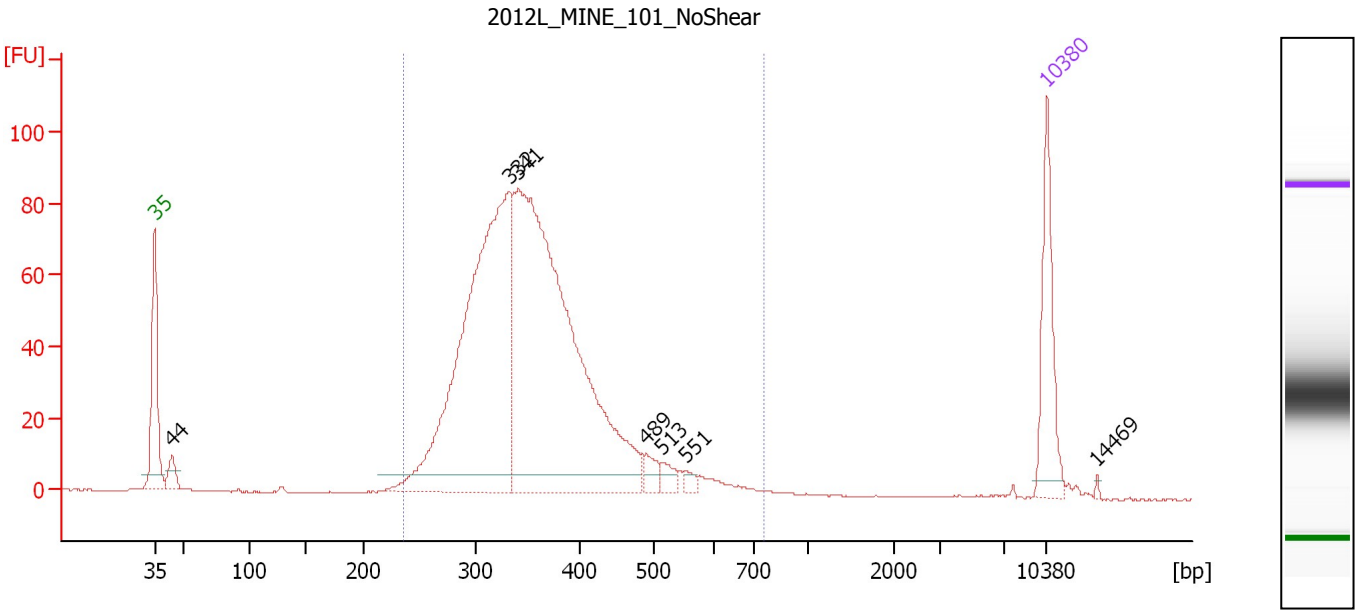
Region table for sample 4 : 2012L_MINE_111_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
225	744	347	23,082.9	5,063.65	2,963.0	98	20.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2012L_MINE_101_NoShear

Number of peaks found:	7	Corr. Area 1:	1,205.7
Noise:	0.1		

Peak table for sample 5 : 2012L_MINE_101_NoShear

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	24.38	836.4	
3	332	634.36	2,897.3	
4	341	790.50	3,516.8	
5	489	16.82	52.1	
6	513	14.22	42.0	
7	551	7.39	20.3	
8	10,380	75.00	10.9	Upper Marker
9	14,469	0.00	0.0	

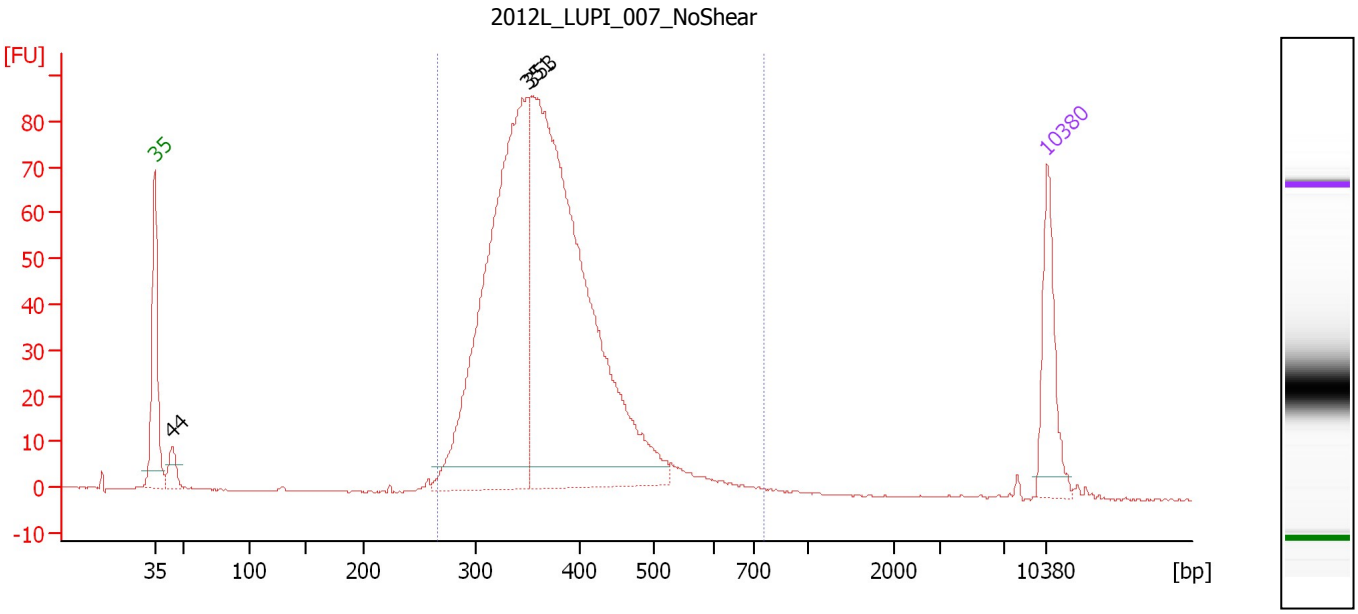
Region table for sample 5 : 2012L_MINE_101_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
235	752	359	6,559.4	1,491.32	1,205.7	96	19.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 2012L_LUPI_007_NoShear

Number of peaks found:	3	Corr. Area 1:	1,083.9
Noise:	0.1		

Peak table for sample 6 : 2012L_LUPI_007_NoShear

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		44	31.39	1,070.6	
3		351	717.58	3,101.7	
4		353	924.62	3,969.2	
5	▶	10,380	75.00	10.9	Upper Marker

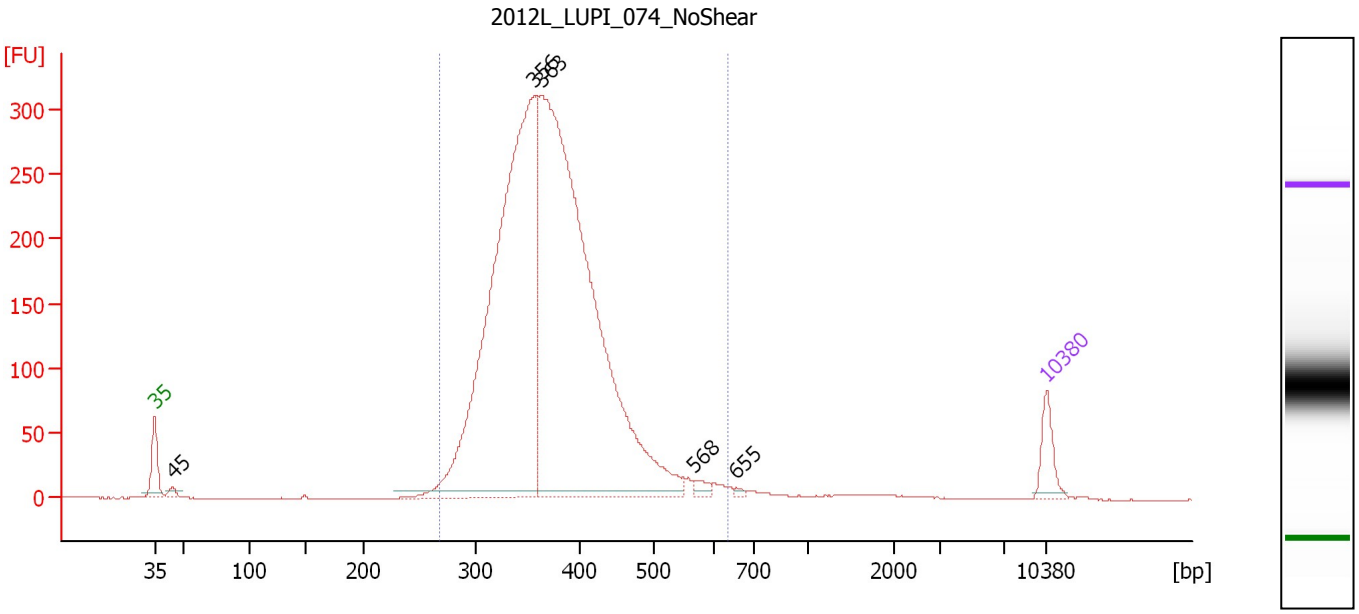
Region table for sample 6 : 2012L_LUPI_007_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
266	755	373	7,113.3	1,699.96	1,083.9	97	16.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2012L_LUPI_074_NoShear

Number of peaks found:	5	Corr. Area 1:	3,730.7
Noise:	0.1		

Peak table for sample 7 : 2012L_LUPI_074_NoShear

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	25.83	877.8	
3	356	2,354.41	10,017.5	
4	363	2,860.58	11,944.4	
5	568	24.01	64.1	
6	655	7.42	17.2	
7	10,380	75.00	10.9	Upper Marker

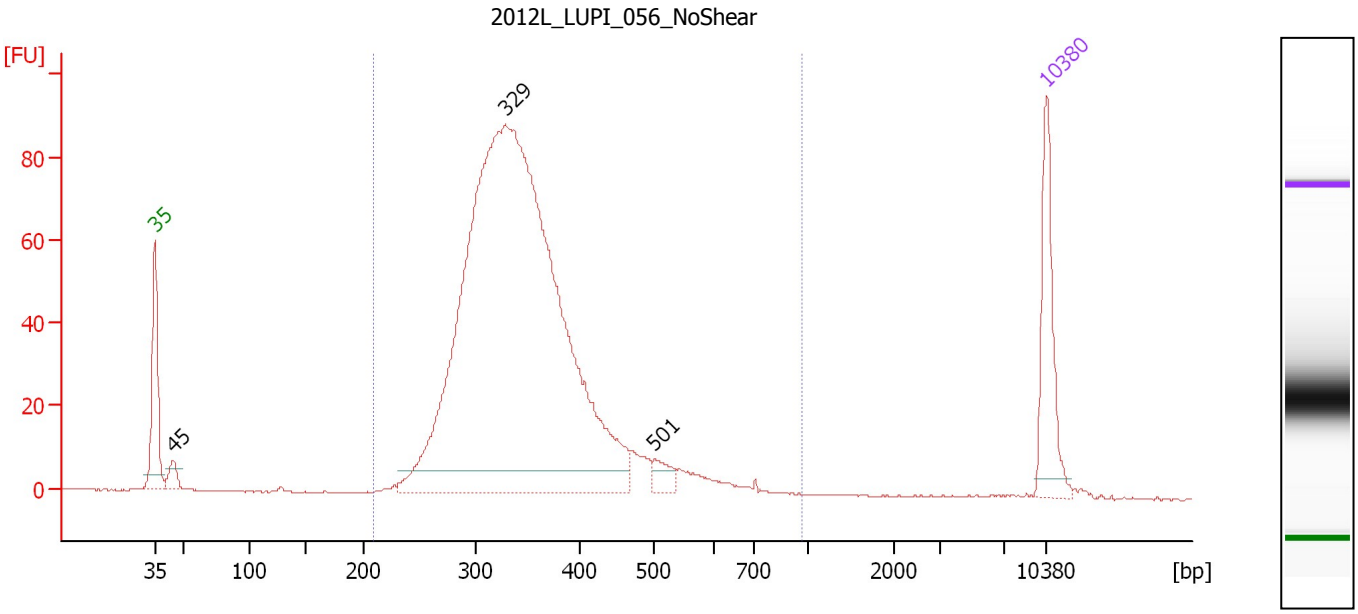
Region table for sample 7 : 2012L_LUPI_074_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
268	634	374	21,898.9	5,289.31	3,730.7	97	14.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 2012L_LUPI_056_NoShear

Number of peaks found:	3	Corr. Area 1:	1,144.8
Noise:	0.1		

Peak table for sample 8 : 2012L_LUPI_056_NoShear

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	19.75	670.6	
3	329	1,427.76	6,582.1	
4	501	18.07	54.7	
5	10,380	75.00	10.9	Upper Marker

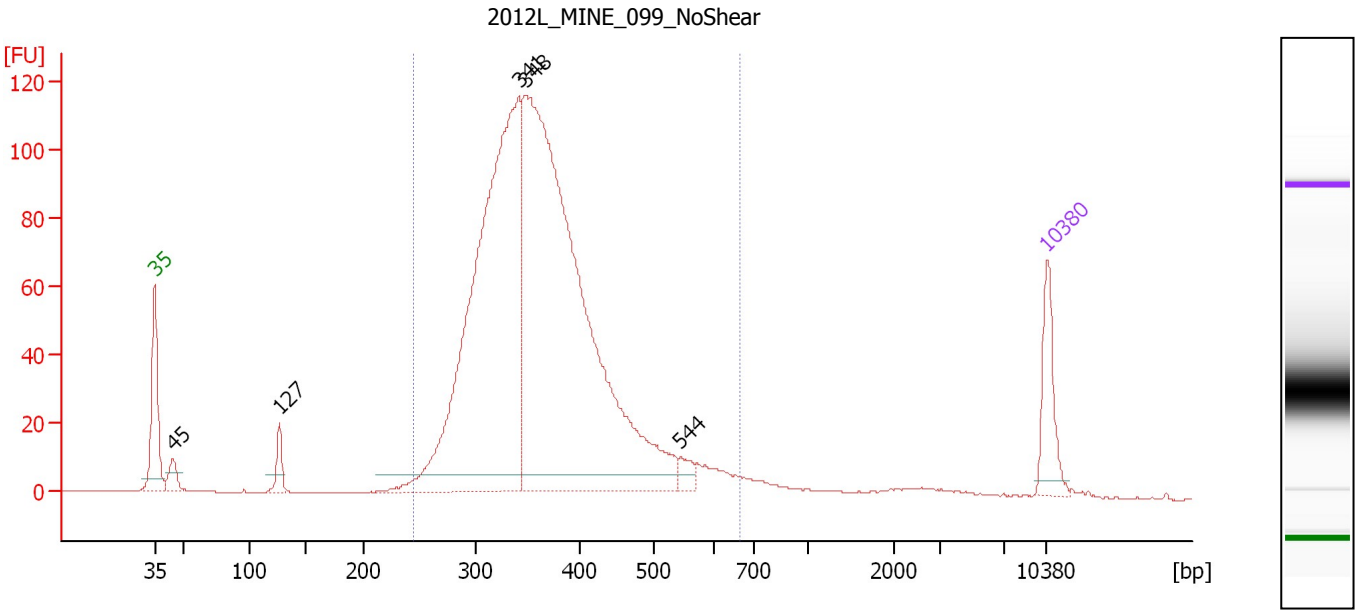
Region table for sample 8 : 2012L_LUPI_056_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
209	966	352	6,700.1	1,494.70	1,144.8	98	20.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

Created: 8/27/2012 4:19:43 PM
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 2012L_MINE_099_NoShear

Number of peaks found:	5	Corr. Area 1:	1,557.2
Noise:	0.1		

Peak table for sample 9 : 2012L_MINE_099_NoShear

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		45	37.28	1,263.6	
3		127	41.15	491.9	
4		341	1,167.70	5,183.6	
5		348	1,523.23	6,640.8	
6		544	22.51	62.7	
7	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 9 : 2012L_MINE_099_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
245	664	367	11,850.0	2,767.83	1,557.2	94	18.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

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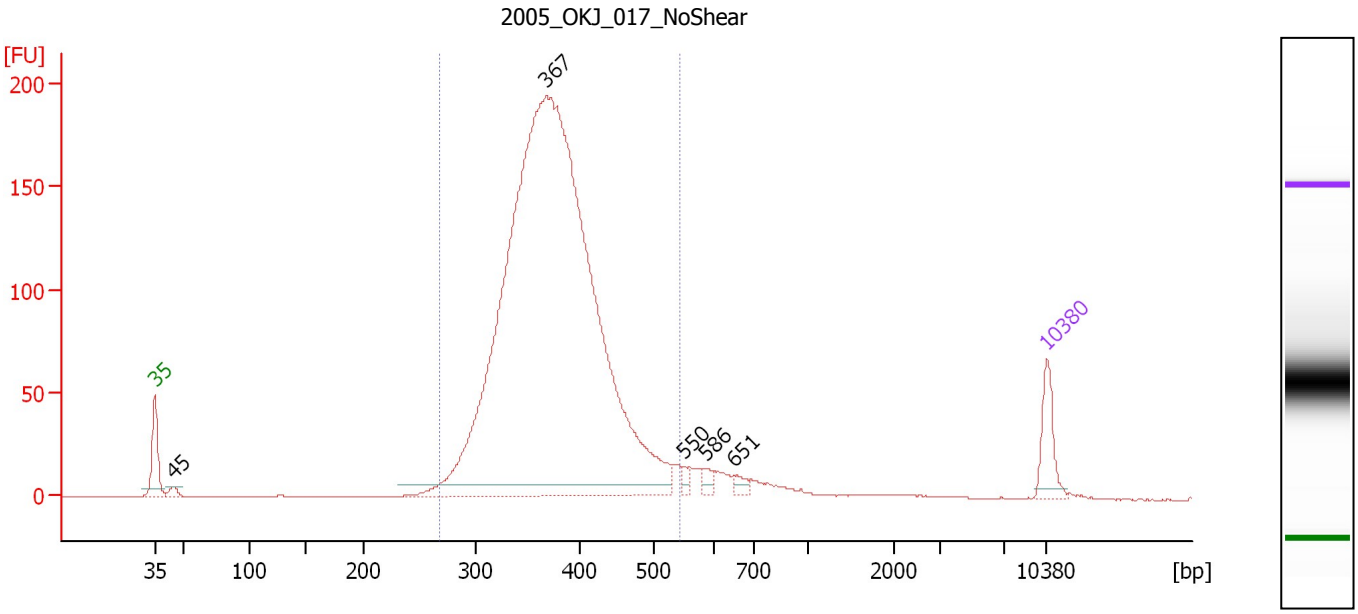
Electropherogram Summary Continued ...



Overall Results for sample 10 : 2005_OKJ_017_NoShear

Number of peaks found:	5	Corr. Area 1:	2,098.2
Noise:	0.1		

Peak table for sample 10 : 2005_OKJ_017_NoShear

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		45	20.61	692.0	
3		367	3,738.66	15,431.8	
4		550	17.55	48.3	
5		586	20.52	53.1	
6		651	19.47	45.3	
7	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 10 : 2005_OKJ_017_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
268	544	376	15,490.6	3,781.49	2,098.2	93	12.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

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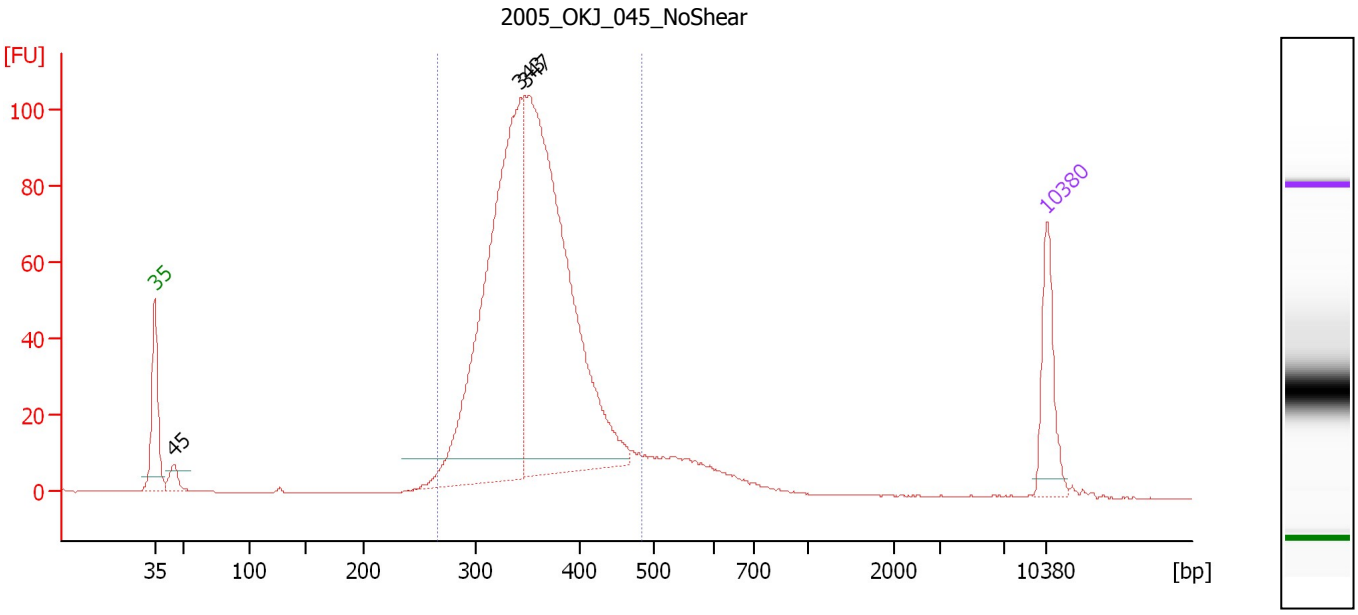
Modified: 8/27/2012 5:04:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 2005_OKJ_045_NoShear

Number of peaks found:	3	Corr. Area 1:	1,078.8
Noise:	0.1		

Peak table for sample 11 : 2005_OKJ_045_NoShear

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		45	27.61	926.0	
3		343	752.93	3,330.5	
4		347	869.56	3,797.4	
5	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : 2005_OKJ_045_NoShear

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
266	482	355	7,697.4	1,779.65	1,078.8	90	11.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-27\2012-08-27_006.xad

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