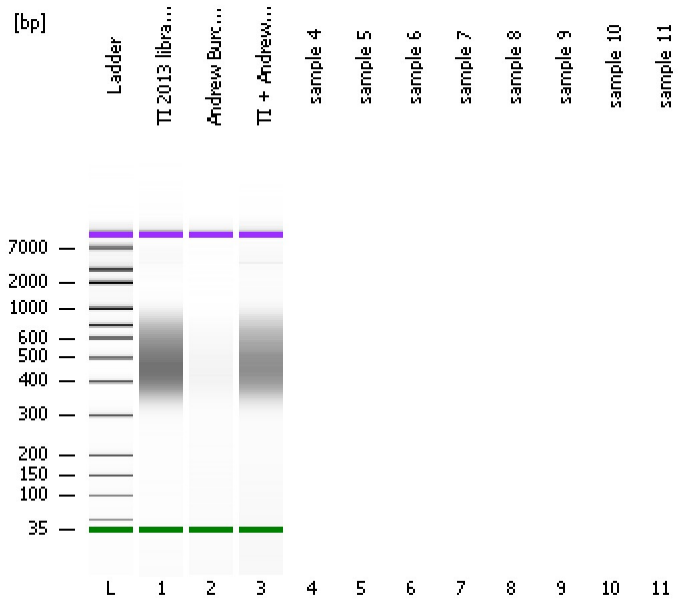
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 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

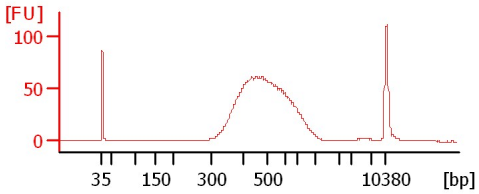
Chip Information:

Chip Lot #:

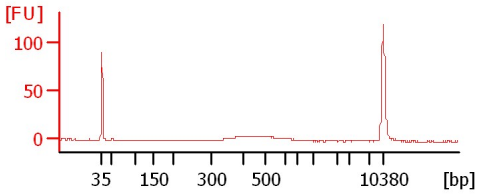
Reagent Kit Lot #:

Chip Comments:

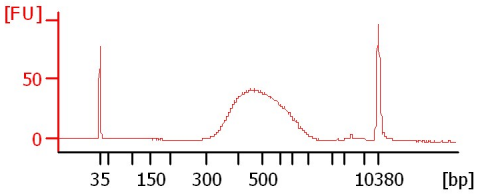
TI 2013 libraries



Andrew Burch algae libraries



TI + Andrew libraries



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
TI 2013 libraries		☐	✔			
Andrew Burch algae libraries		☐	✔			
TI + Andrew libraries		☐	✔			
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\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 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

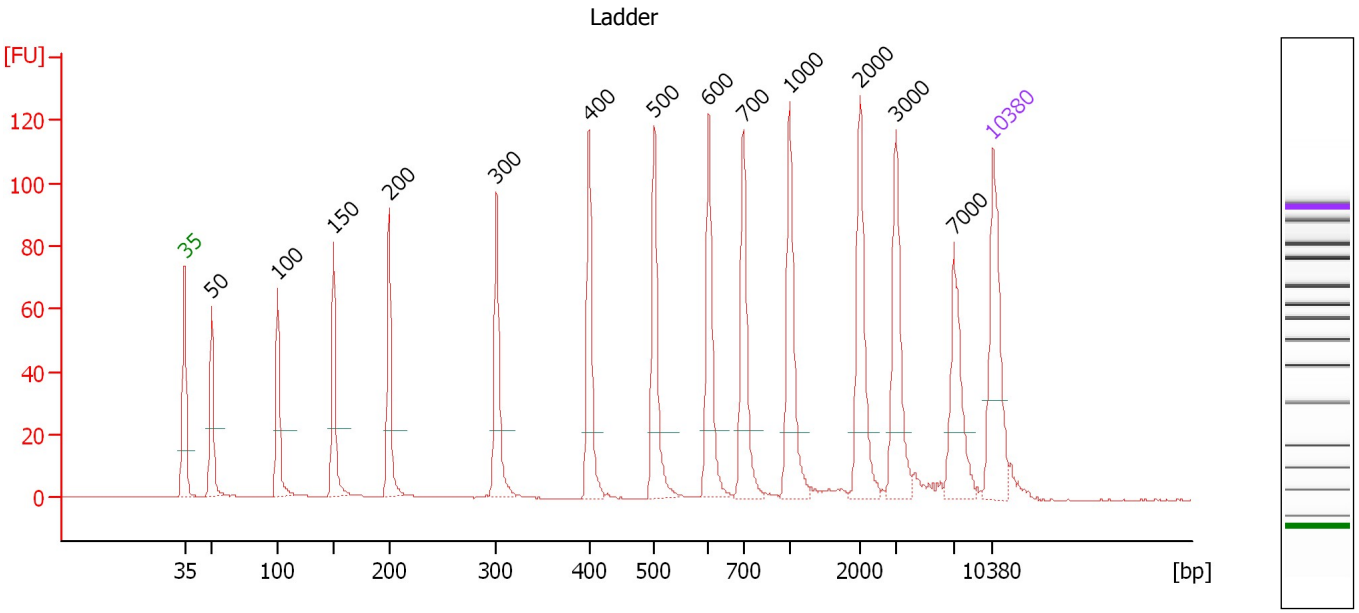
Ladder

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\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

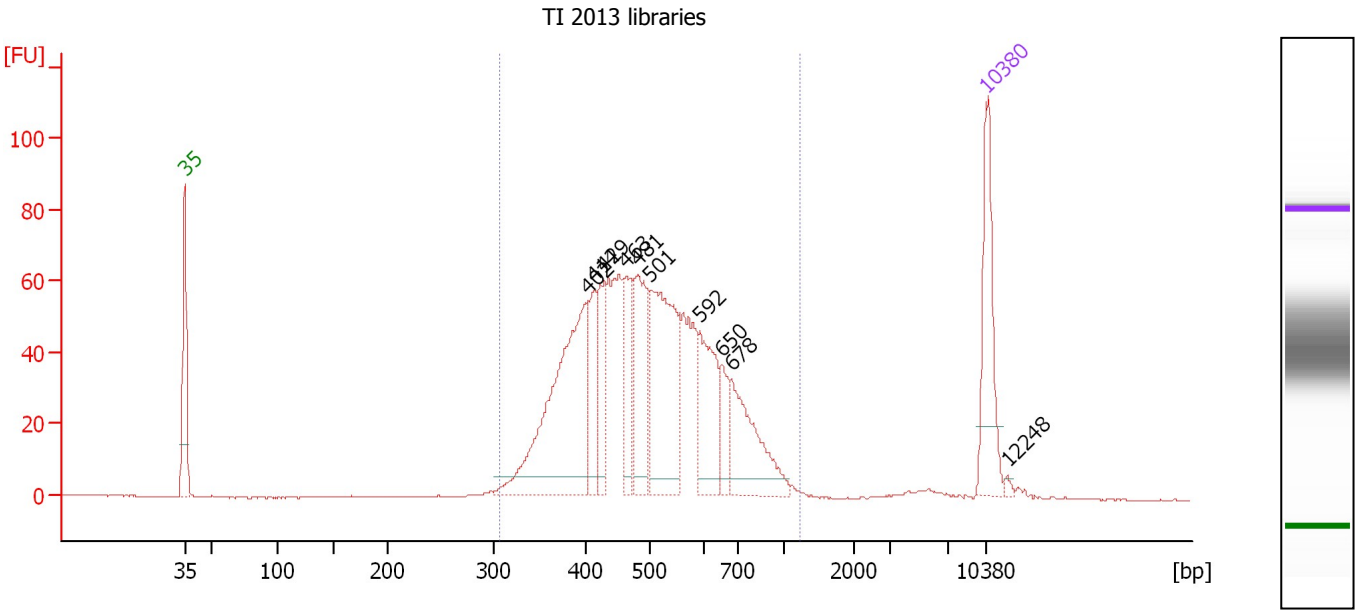
Peak table for Ladder

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\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : TI 2013 libraries

Number of peaks found:	10	Corr. Area 1:	1,182.1
Noise:	0.1		

Peak table for sample 1 : TI 2013 libraries

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		402	266.64	1,004.8	
3		414	57.15	209.3	
4		429	51.54	182.2	
5		463	66.79	218.4	
6		481	97.46	307.2	
7		501	187.71	568.2	
8		592	85.59	219.2	
9		650	32.07	74.7	
10		678	98.28	219.5	
11	▶	10,380	75.00	10.9	Upper Marker
12		12,248	0.00	0.0	

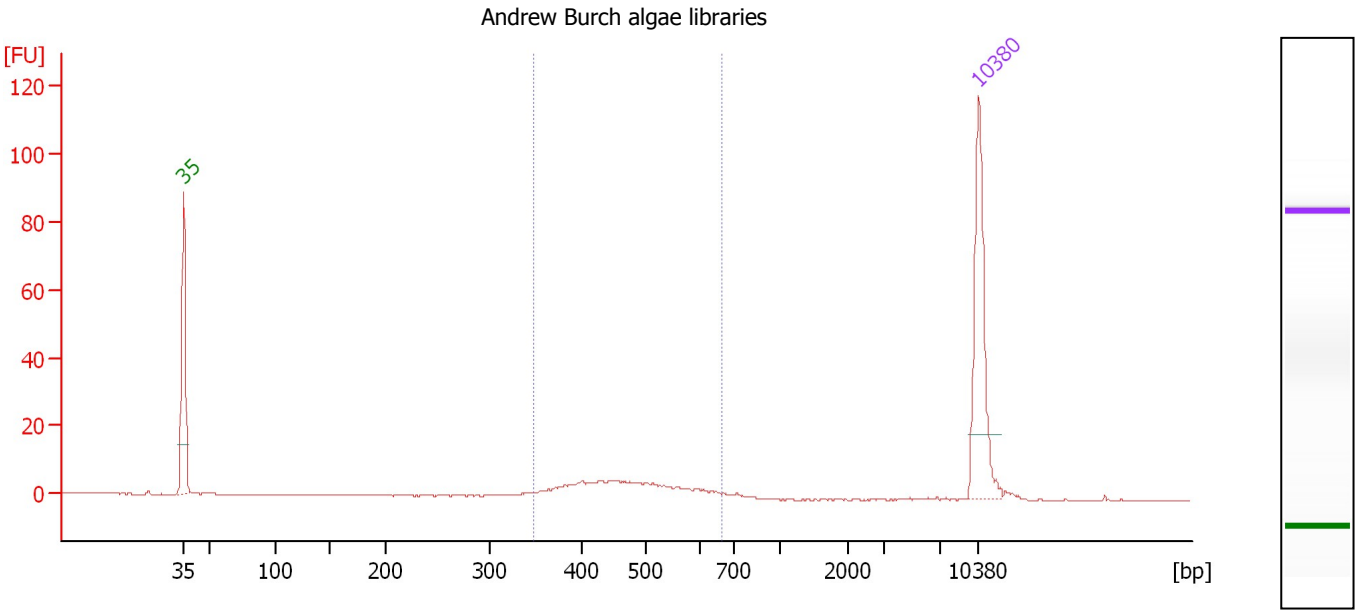
Region table for sample 1 : TI 2013 libraries

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
307	1,218	511	3,834.1	1,203.17	1,182.1	97	25.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Andrew Burch algae libraries

Number of peaks found:	0	Corr. Area 1:	65.4
Noise:	0.1		

Peak table for sample 2 : Andrew Burch algae libraries

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

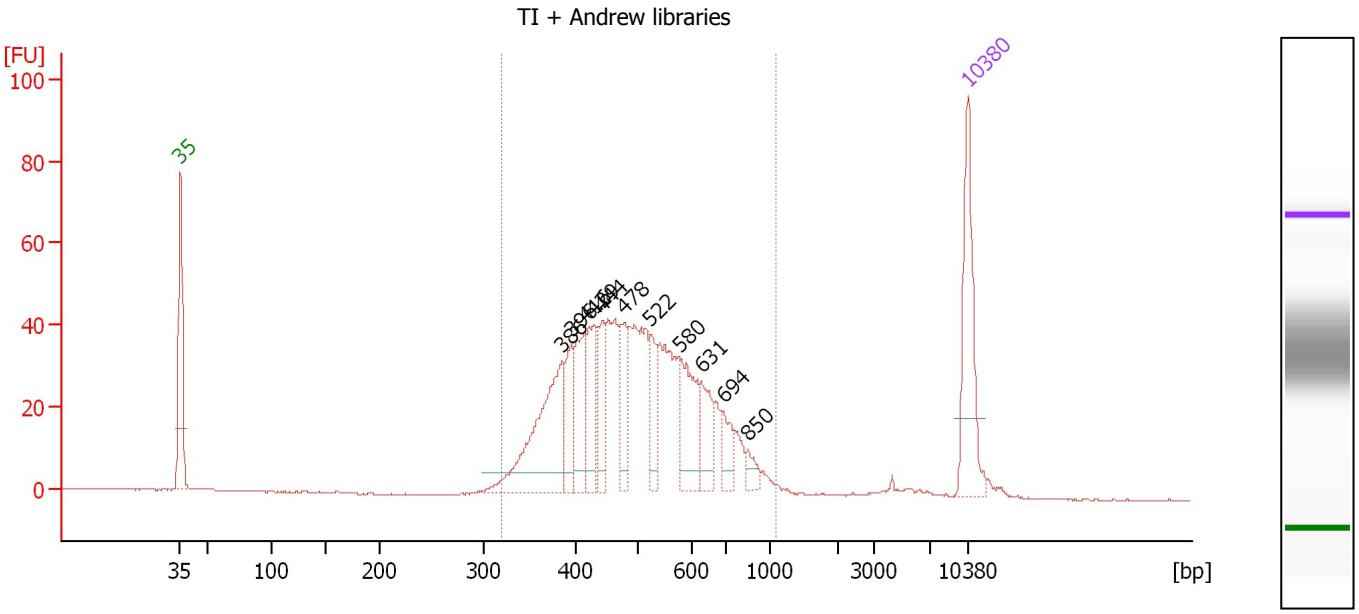
Region table for sample 2 : Andrew Burch algae libraries

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
348	666	472	214.0	64.49	65.4	87	16.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : TI + Andrew libraries

Number of peaks found:	11	Corr. Area 1:	795.0
Noise:	0.1		

Peak table for sample 3 : TI + Andrew libraries

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	386	151.32	593.3	
3	396	43.41	166.2	
4	416	62.70	228.4	
5	429	52.00	183.5	
6	444	38.10	130.1	
7	478	45.38	143.8	
8	522	34.41	99.8	
9	580	66.56	174.0	
10	631	37.35	89.7	
11	694	23.25	50.7	
12	850	11.32	20.2	
13	10,380	75.00	10.9	Upper Marker

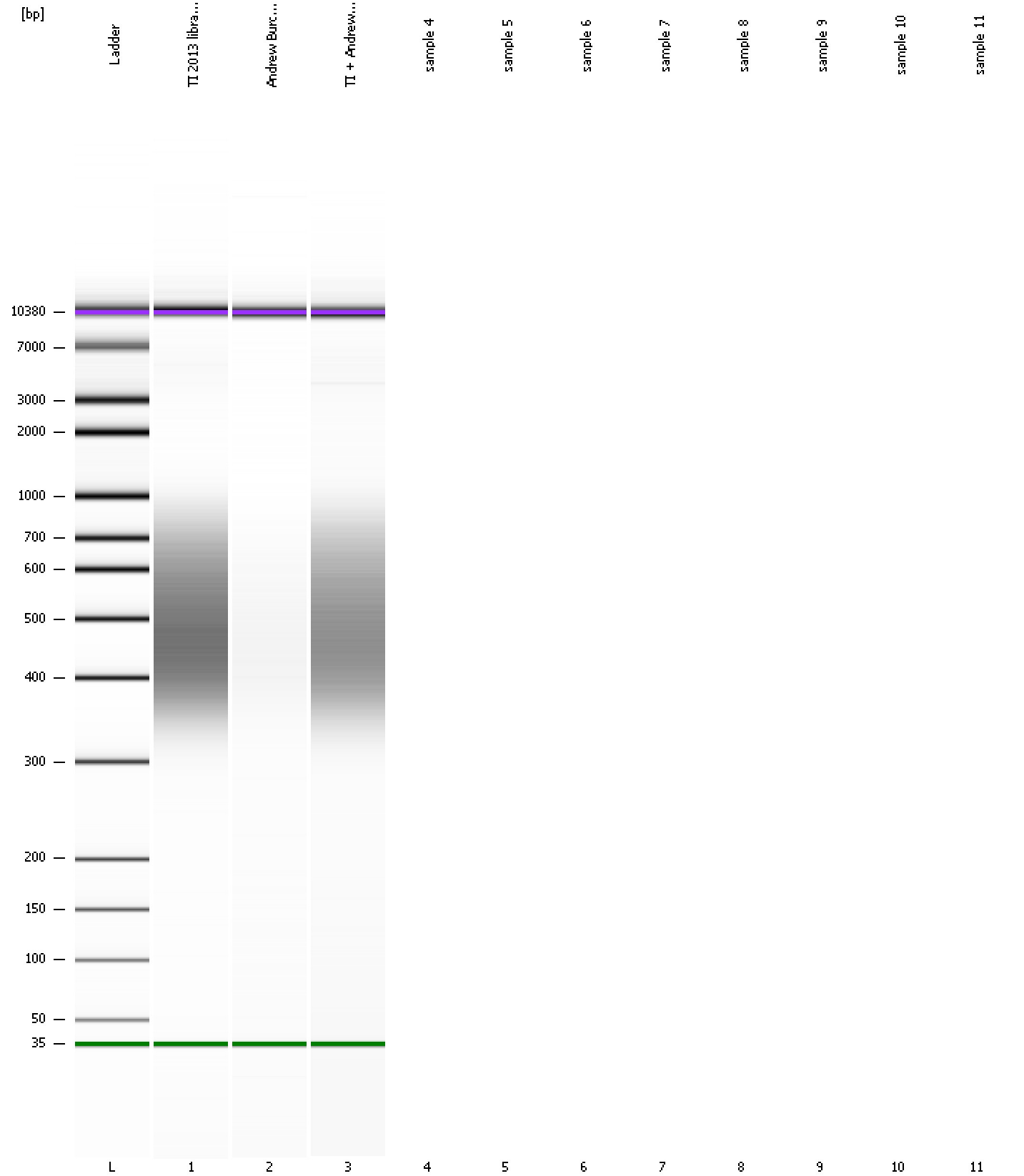
Region table for sample 3 : TI + Andrew libraries

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
320	1,083	510	2,944.1	925.46	795.0	95	24.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-15\2013-07-15_003.xad

Created: 7/15/2013 3:21:44 PM
Modified: 7/15/2013 3:45:45 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 4)		Instrument	Run		7/15/2013 3:40:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-15\2013-07-15_003.xad)		Instrument	Run		7/15/2013 3:21:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/15/2013 3:21:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/15/2013 3:21:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/15/2013 3:21:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/15/2013 3:21:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/15/2013 3:21:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/15/2013 3:21:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1