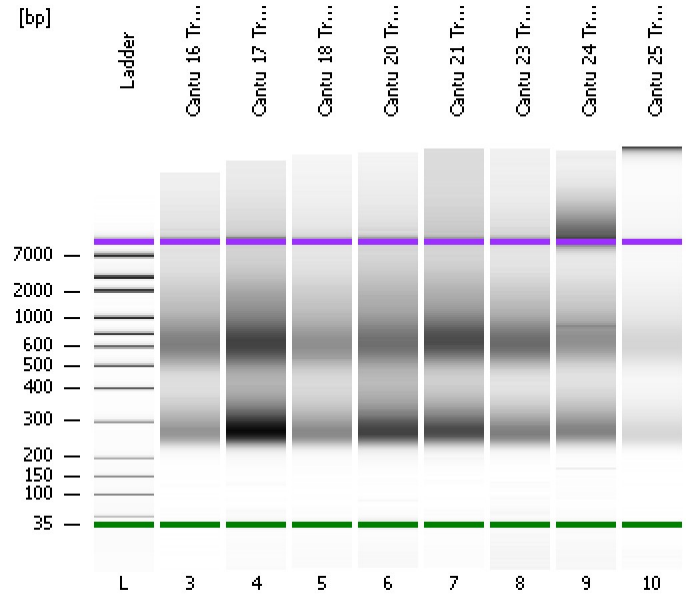
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electrophoresis File Run Summary



Instrument Information:

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

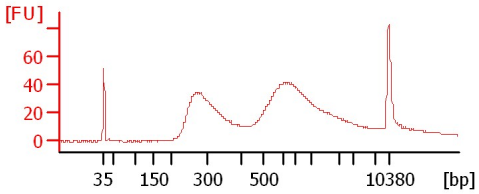
Assay Information:

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

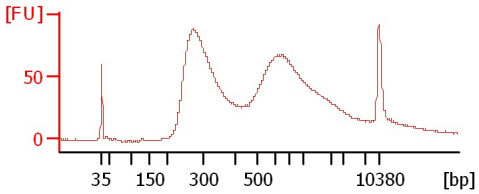
Chip Information:

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

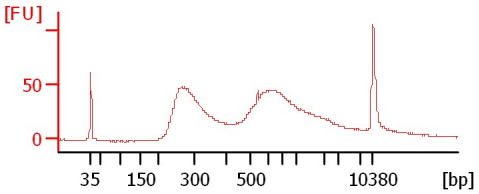
Cantu 16 TruSeq Lib 1:6



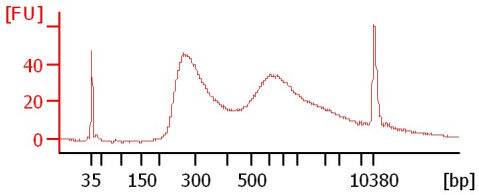
Cantu 17 TruSeq Lib 1:6



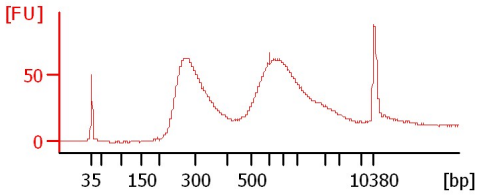
Cantu 18 TruSeq Lib 1:6



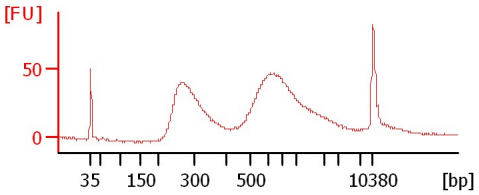
Cantu 20 TruSeq Lib 1:6



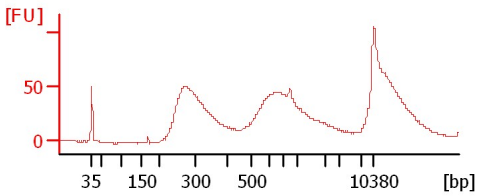
Cantu 21 TruSeq Lib 1:6



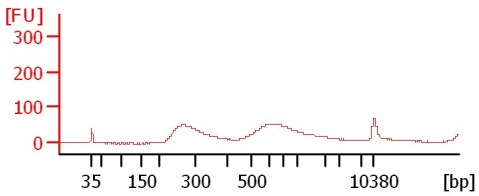
Cantu 23 TruSeq Lib 1:6



Cantu 24 TruSeq Lib 1:6



Cantu 25 TruSeq Lib 1:6



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Cantu 16 TruSeq Lib 1:6		☐	✔			
Cantu 17 TruSeq Lib 1:6		☐	✔			
Cantu 18 TruSeq Lib 1:6		☐	✔			
Cantu 20 TruSeq Lib 1:6		☐	✔			
Cantu 21 TruSeq Lib 1:6		☐	✔			
Cantu 23 TruSeq Lib 1:6		☐	✔			
Cantu 24 TruSeq Lib 1:6		☐	✔			
Cantu 25 TruSeq Lib 1:6		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 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

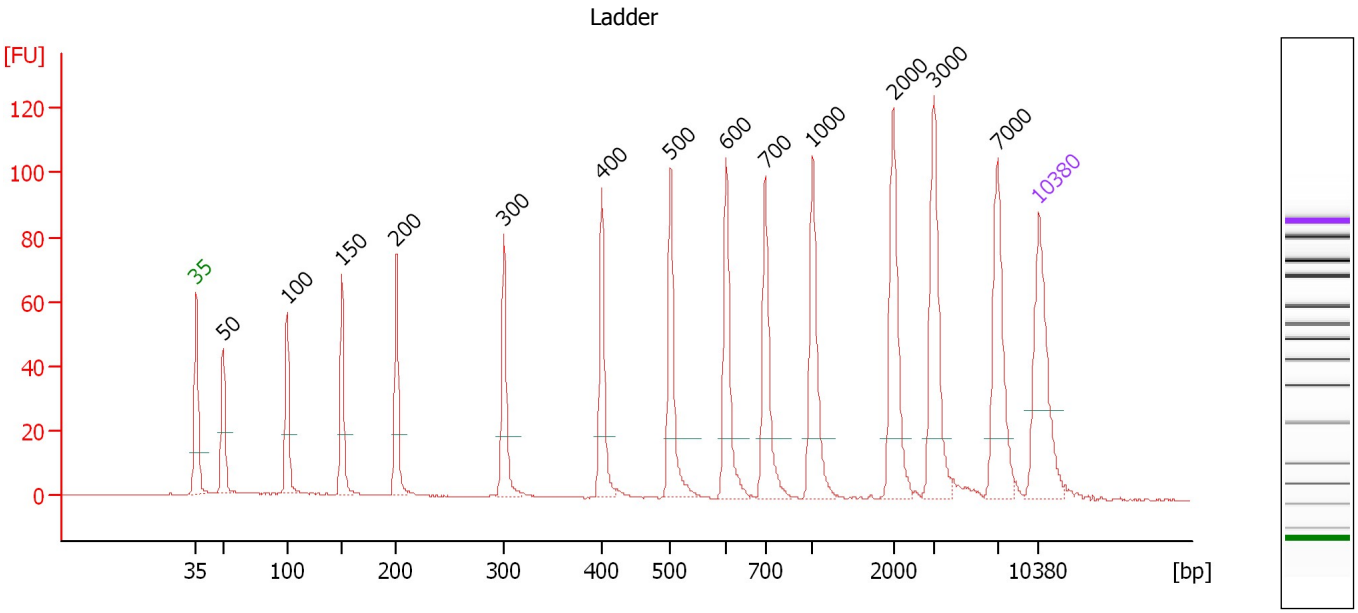
Ladder

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:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

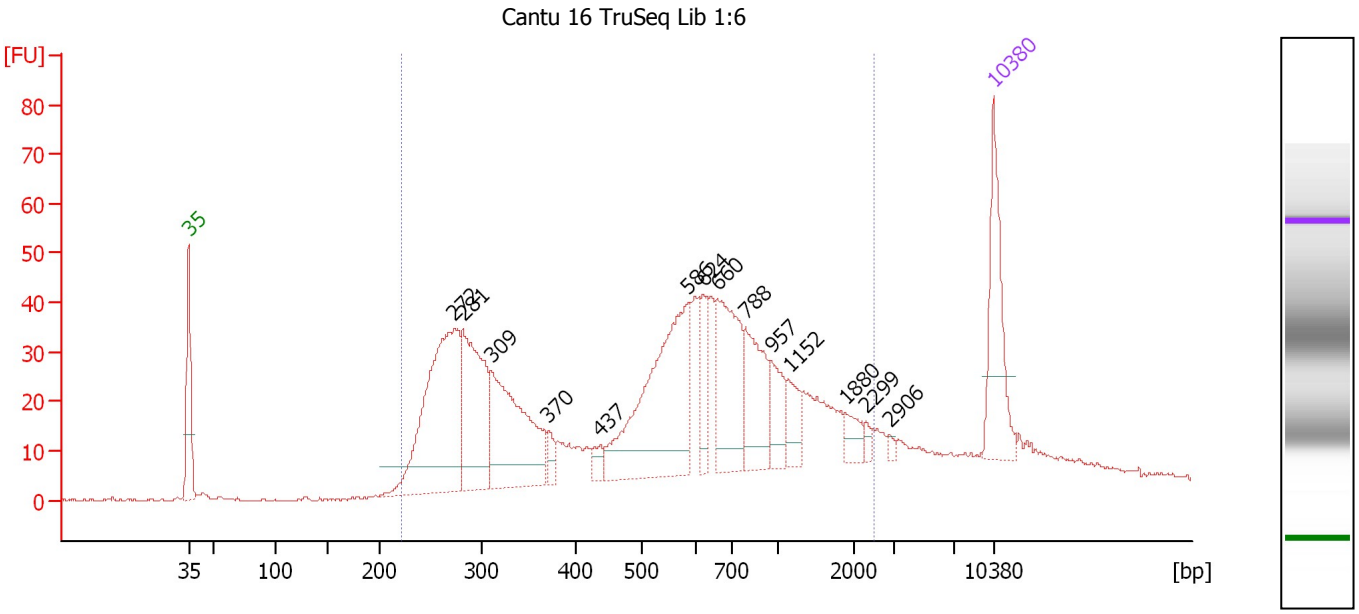
Peak table for Ladder

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:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Cantu 16 TruSeq Lib 1:6

Number of peaks found:	14	Corr. Area 1:	1,102.7
Noise:	0.2		

Peak table for sample 3 : Cantu 16 TruSeq Lib 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	272	290.04	1,615.8	
3	281	176.76	953.8	
4	309	187.21	917.6	
5	370	14.04	57.4	
6	437	12.82	44.4	
7	586	226.86	586.8	
8	624	37.45	91.0	
9	660	120.90	277.7	
10	788	77.65	149.3	
11	957	37.37	59.1	
12	1,152	25.66	33.7	
13	1,880	15.81	12.7	
14	2,299	5.62	3.7	
15	2,906	3.69	1.9	
16	10,380	75.00	10.9	Upper Marker

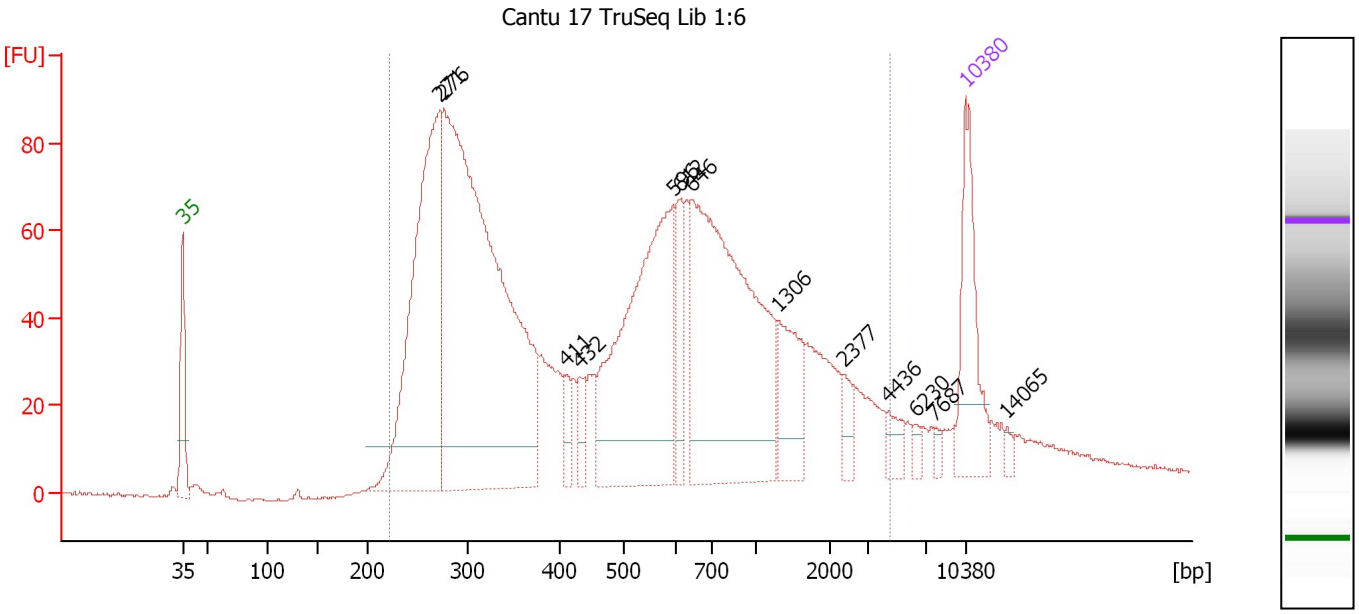
Region table for sample 3 : Cantu 16 TruSeq Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
222	2,517	674	5,496.8	1,537.58	1,102.7	92	68.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : Cantu 17 TruSeq Lib 1:6

Height Threshold [FU] : 10

Overall Results for sample 4 : Cantu 17 TruSeq Lib 1:6

Number of peaks found:	13	Corr. Area 1:	2,443.9
Noise:	0.3		

Peak table for sample 4 : Cantu 17 TruSeq Lib 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	271	407.10	2,274.6	
3	276	810.70	4,451.0	
4	411	22.03	81.3	
5	432	23.99	84.1	
6	596	308.18	783.0	
7	612	48.29	119.5	
8	646	386.33	905.6	
9	1,306	66.25	76.8	
10	2,377	14.91	9.5	
11	4,436	15.05	5.1	
12	6,230	7.10	1.7	
13	7,687	4.71	0.9	
14	10,380	75.00	10.9	Upper Marker
15	14,065	0.00	0.0	

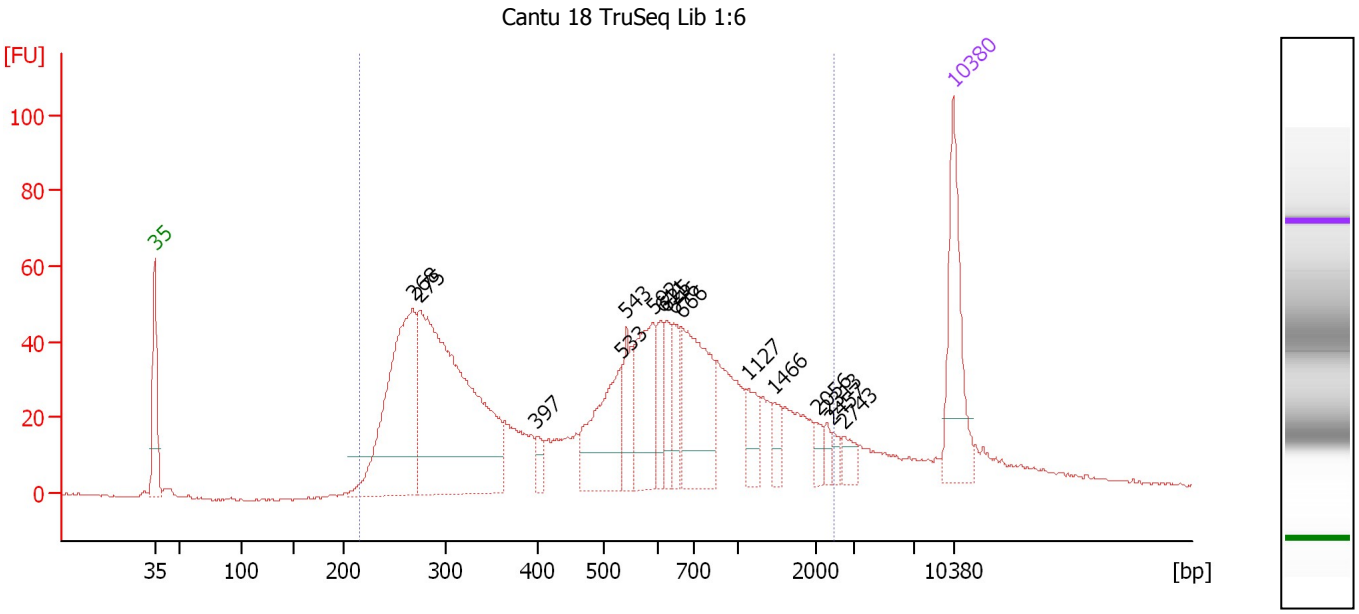
Region table for sample 4 : Cantu 17 TruSeq Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
222	4,449	715	8,558.5	2,267.85	2,443.9	95	91.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : Cantu 18 TruSeq Lib 1:6

Height Threshold [FU] : 10

Overall Results for sample 5 : Cantu 18 TruSeq Lib 1:6

Number of peaks found:	16	Corr. Area 1:	1,441.4
Noise:	0.3		

Peak table for sample 5 : Cantu 18 TruSeq Lib 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	268	253.19	1,433.9	
3	275	430.45	2,375.6	
4	397	13.34	50.9	
5	533	100.94	286.8	
6	543	38.21	106.7	
7	592	84.72	216.7	
8	611	30.30	75.1	
9	625	28.17	68.3	
10	646	29.82	70.0	
11	666	117.36	266.9	
12	1,127	27.35	36.8	
13	1,466	15.66	16.2	
14	2,056	8.92	6.6	
15	2,313	7.36	4.8	
16	2,457	7.17	4.4	
17	2,743	11.77	6.5	
18	10,380	75.00	10.9	Upper Marker

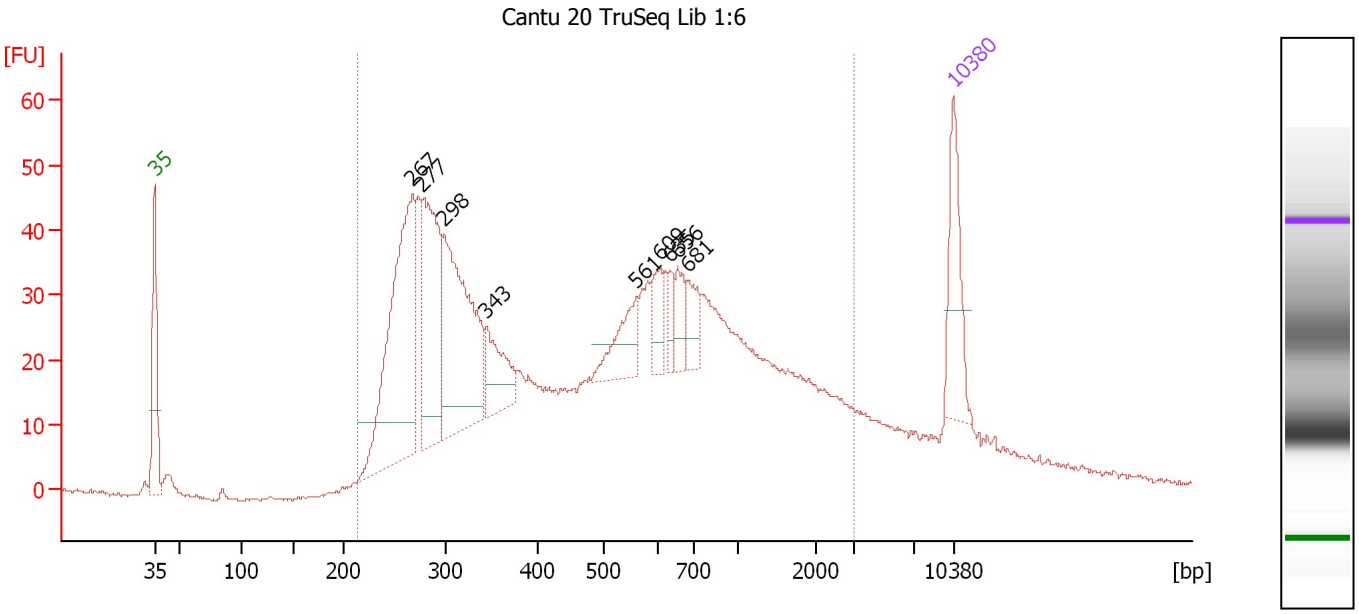
Region table for sample 5 : Cantu 18 TruSeq Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
215	2,470	650	5,160.7	1,383.99	1,441.4	92	70.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Cantu 20 TruSeq Lib 1:6

Number of peaks found:	9	Corr. Area 1:	1,307.7
Noise:	0.3		

Peak table for sample 6 : Cantu 20 TruSeq Lib 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	267	390.74	2,217.8	
3	277	236.23	1,293.5	
4	298	298.65	1,519.2	
5	343	81.58	360.3	
6	561	64.00	173.0	
7	609	37.49	93.2	
8	635	21.95	52.4	
9	656	34.23	79.1	
10	681	35.42	78.8	
11	10,380	75.00	10.9	Upper Marker

Region table for sample 6 : Cantu 20 TruSeq Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
212	3,024	678	10,664.9	2,812.58	1,307.7	92	81.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

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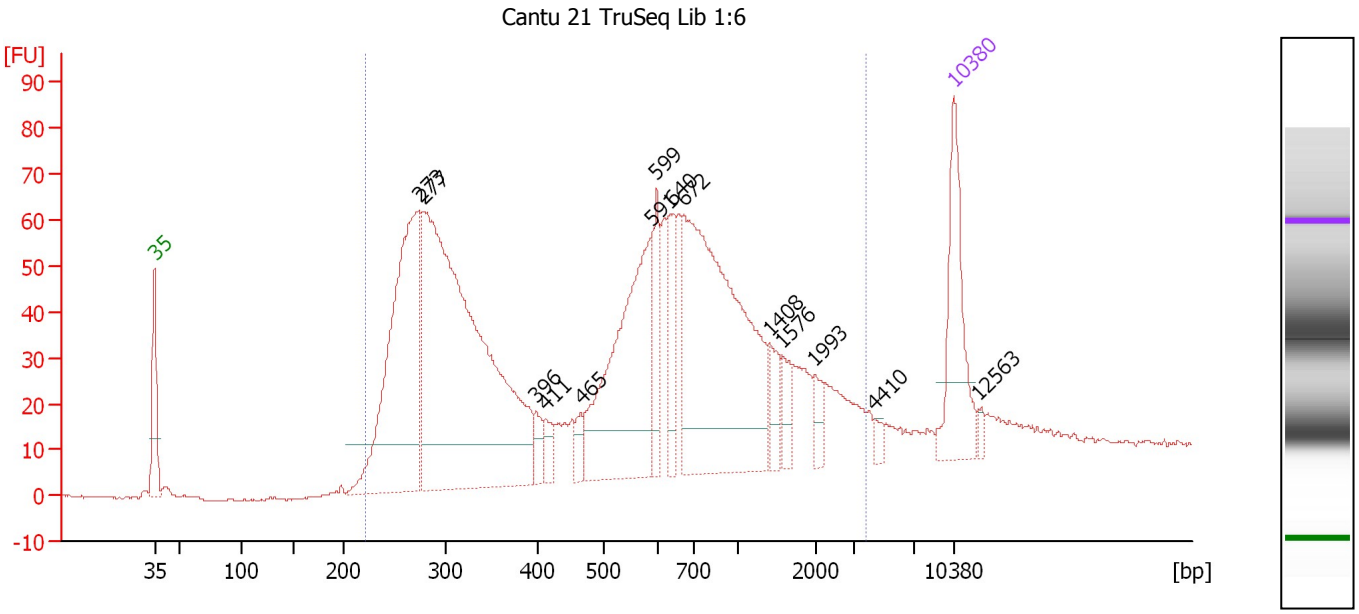
Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : Cantu 21 TruSeq Lib 1:6

Height Threshold [FU] : 10

Overall Results for sample 7 : Cantu 21 TruSeq Lib 1:6

Number of peaks found:	14	Corr. Area 1:	1,689.2
Noise:	0.3		

Peak table for sample 7 : Cantu 21 TruSeq Lib 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	273	341.35	1,894.0	
3	277	645.79	3,526.6	
4	396	17.33	66.2	
5	411	15.37	56.6	
6	465	14.63	47.6	
7	591	219.47	562.7	
8	599	43.12	109.0	
9	640	46.39	109.8	
10	672	358.89	809.5	
11	1,408	22.17	23.9	
12	1,576	17.54	16.9	
13	1,993	12.55	9.5	
14	4,410	6.10	2.1	
15	10,380	75.00	10.9	Upper Marker
16	12,563	0.00	0.0	

Region table for sample 7 : Cantu 21 TruSeq Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
222	3,768	713	6,494.8	1,772.85	1,689.2	95	81.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

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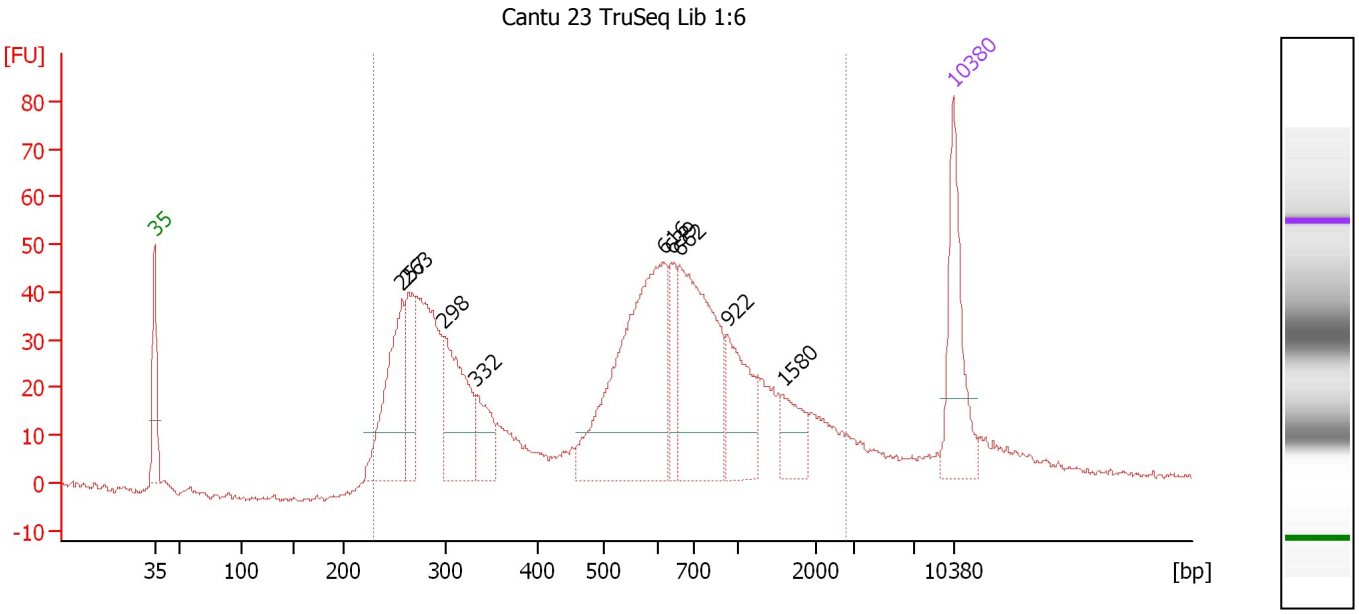
Modified: 2/4/2013 5:28:23 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : Cantu 23 TruSeq Lib 1:6

Height Threshold [FU] : 10

Overall Results for sample 8 : Cantu 23 TruSeq Lib 1:6

Number of peaks found:	9	Corr. Area 1:	1,202.5
Noise:	0.6		

Peak table for sample 8 : Cantu 23 TruSeq Lib 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	257	146.53	863.8	
3	263	74.39	428.5	
4	298	124.60	633.3	
5	332	47.04	214.5	
6	616	271.27	667.1	
7	639	36.80	87.3	
8	662	187.45	429.3	
9	922	77.31	127.0	
10	1,580	33.93	32.5	
11	10,380	75.00	10.9	Upper Marker

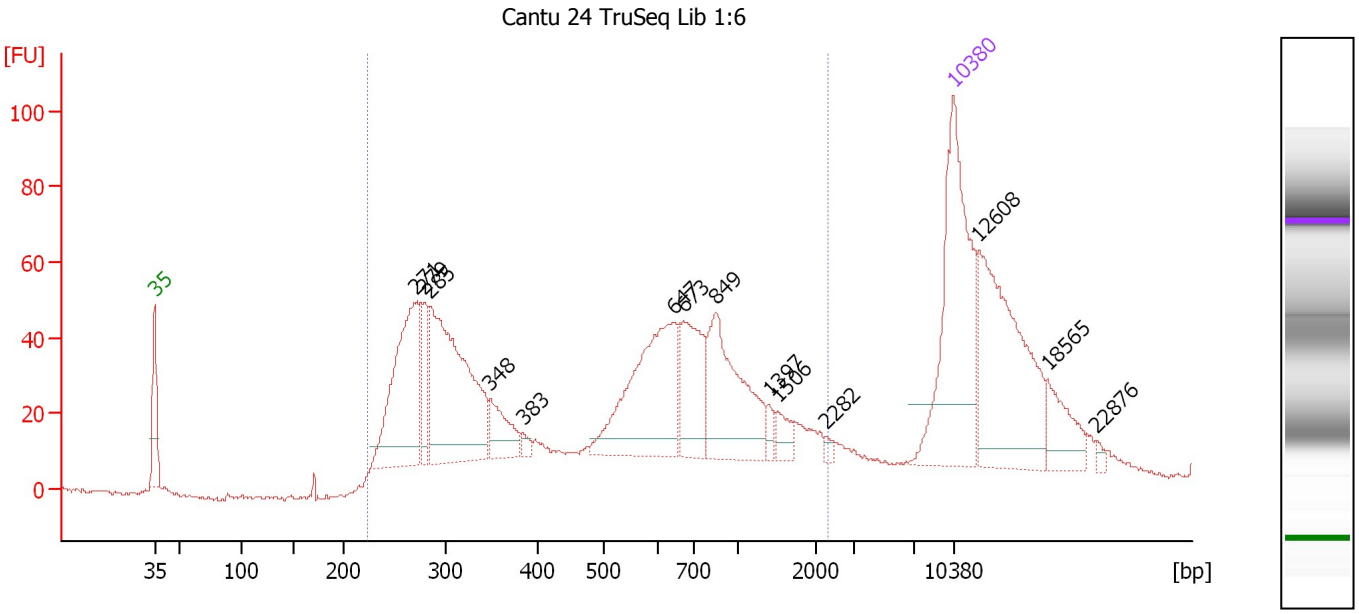
Region table for sample 8 : Cantu 23 TruSeq Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
229	2,800	693	4,808.2	1,346.20	1,202.5	92	71.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Cantu 24 TruSeq Lib 1:6

Number of peaks found:	14	Corr. Area 1:	1,309.3
Noise:	0.5		

Peak table for sample 9 : Cantu 24 TruSeq Lib 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	271	90.53	507.1	
3	279	22.18	120.5	
4	285	122.52	651.9	
5	348	20.72	90.3	
6	383	2.86	11.3	
7	647	79.25	185.6	
8	673	39.11	88.1	
9	849	58.73	104.9	
10	1,397	3.97	4.3	
11	1,506	6.64	6.7	
12	2,282	1.67	1.1	
13	10,380	75.00	10.9	Upper Marker
14	12,608	0.00	0.0	
15	18,565	0.00	0.0	
16	22,876	0.00	0.0	

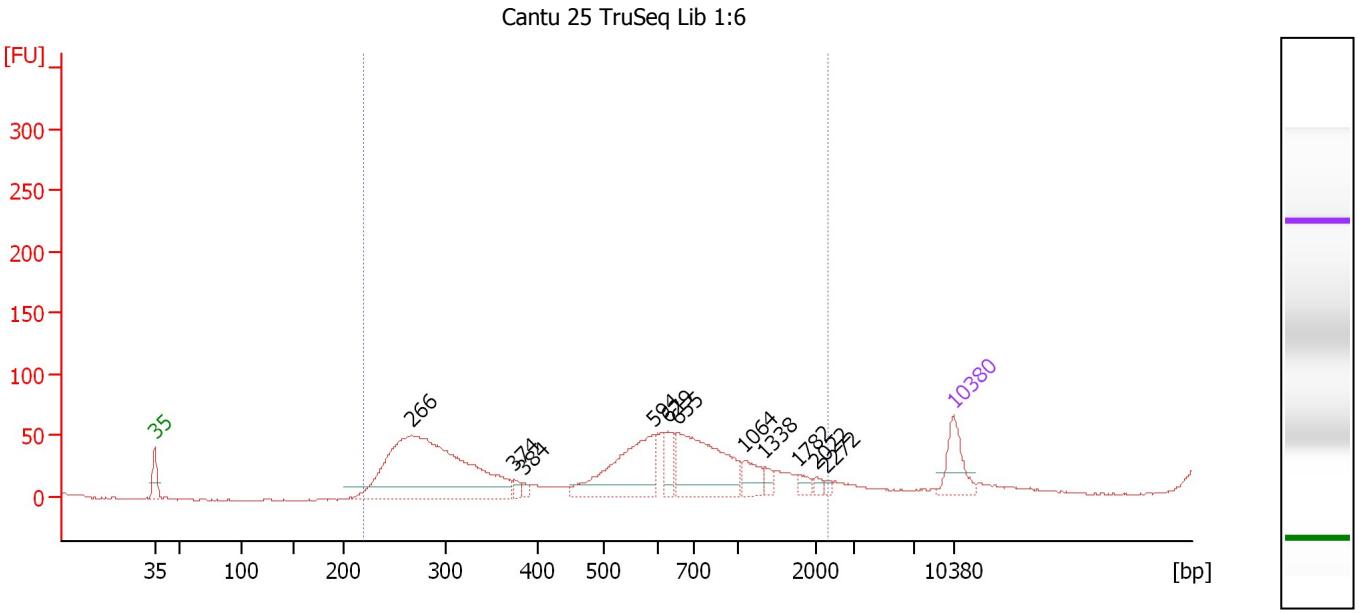
Region table for sample 9 : Cantu 24 TruSeq Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
222	2,357	629	2,338.5	619.35	1,309.3	79	67.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : Cantu 25 TruSeq Lib 1:6

Height Threshold [FU] : 10

Overall Results for sample 10 : Cantu 25 TruSeq Lib 1:6

Number of peaks found:	11	Corr. Area 1:	0.0
Noise:	0.8		

Peak table for sample 10 : Cantu 25 TruSeq Lib 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	921.60	5,252.0	
3	374	15.65	63.4	
4	384	14.82	58.4	
5	594	280.43	714.7	
6	629	52.81	127.3	
7	655	298.73	691.3	
8	1,064	51.70	73.6	
9	1,338	21.88	24.8	
10	1,782	18.54	15.8	
11	2,022	10.76	8.1	
12	2,272	8.45	5.6	
13	10,380	75.00	10.9	Upper Marker

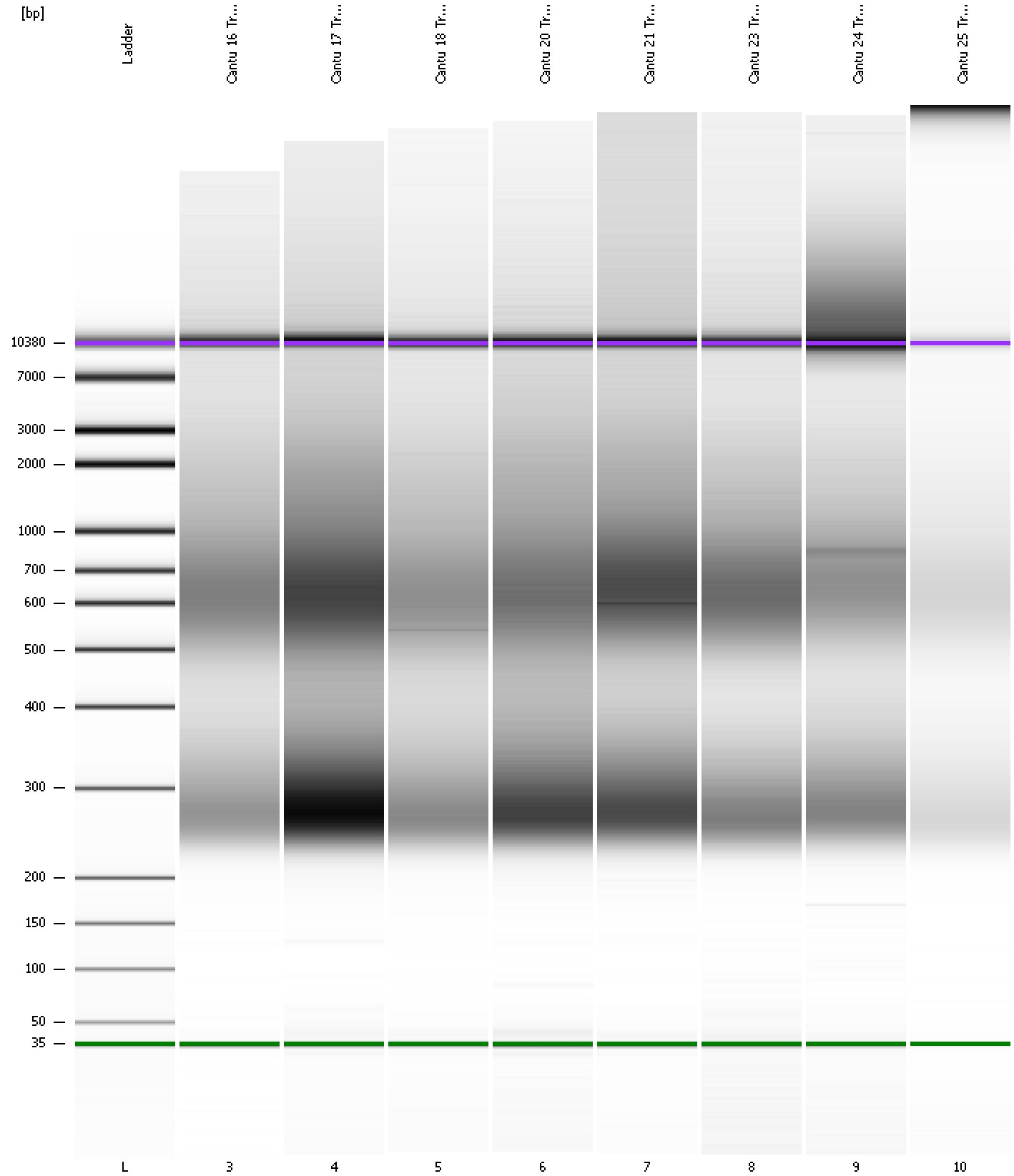
Region table for sample 10 : Cantu 25 TruSeq Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
218	2,344	0	0.0	0.00	0.0	0	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2013-02-04\2013-02-04_005_Cantu_TruSeq_Lib-2.xad

Created: 2/4/2013 4:42:44 PM
Modified: 2/4/2013 5:28:23 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		2/4/2013 5:24:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-04\2013-02-04_005.xad)		Instrument	Run		2/4/2013 4:42:49 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/4/2013 4:42:49 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/4/2013 4:42:49 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/4/2013 4:42:49 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/4/2013 4:42:49 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/4/2013 4:42:49 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/4/2013 4:42:49 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1