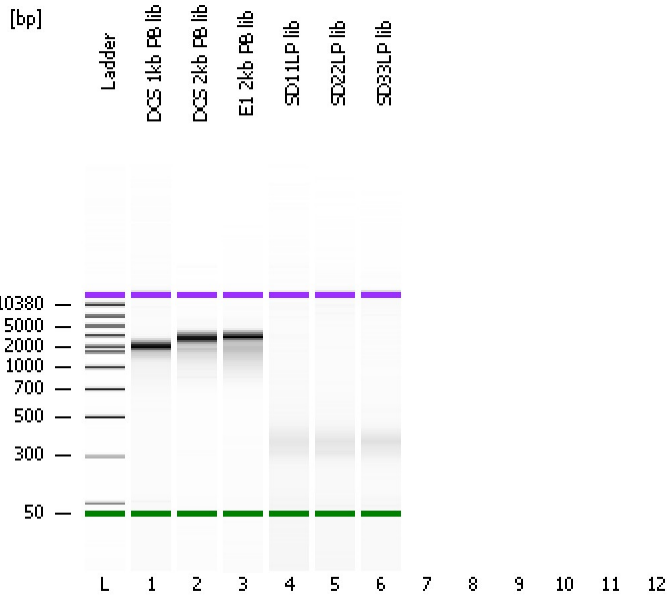


Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
Modified: 9/3/2014 9:35:59 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\DNA 12000 Series II.xsy

Assay Class: DNA 12000

Version: 2.4

Assay Comments: DNA Analysis 100 -12000 bp

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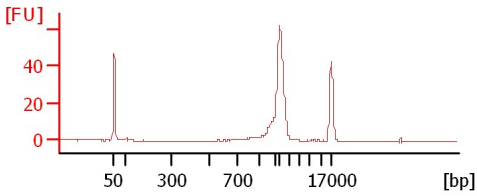
Chip Information:

Chip Lot #:

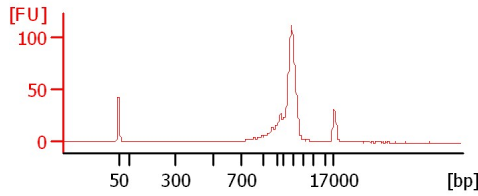
Reagent Kit Lot #:

Chip Comments:

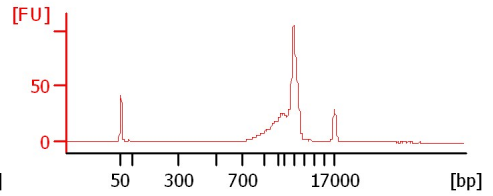
DCS 1kb PB lib



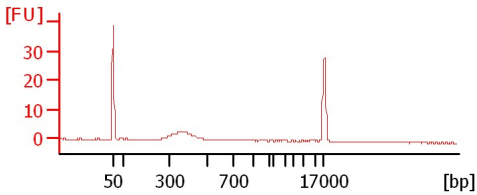
DCS 2kb PB lib



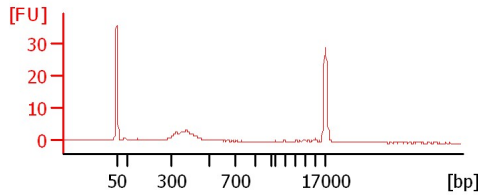
E1 2kb PB lib



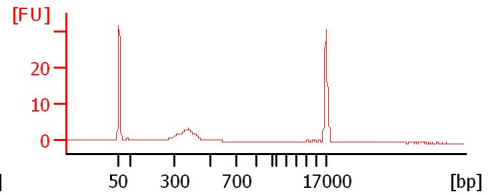
SD11LP lib



SD22LP lib



SD33LP lib



Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
Modified: 9/3/2014 9:35:59 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DCS 1kb PB lib		<input type="checkbox"/>	✓			
DCS 2kb PB lib		<input type="checkbox"/>	✓			
E1 2kb PB lib		<input type="checkbox"/>	✓			
SD11LP lib		<input type="checkbox"/>	✓			
SD22LP lib		<input type="checkbox"/>	✓			
SD33LP lib		<input type="checkbox"/>	✓			
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
Modified: 9/3/2014 9:35:59 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 20
Maximum Visible Range [s] : 99
Start Analysis Time Range [s] : 20
End Analysis Time Range [s] : 98.95
Ladder Concentration [ng/μl] : 44
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 8.3
Upper Marker Concentration [ng/μl] : 4.2
Used Upper Marker for Quantitation
This is a Qualitative Assay Only
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 20
Integration End Time [s] : 98.95
Slope Threshold : 0.8
Height Threshold [FU] : 20
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

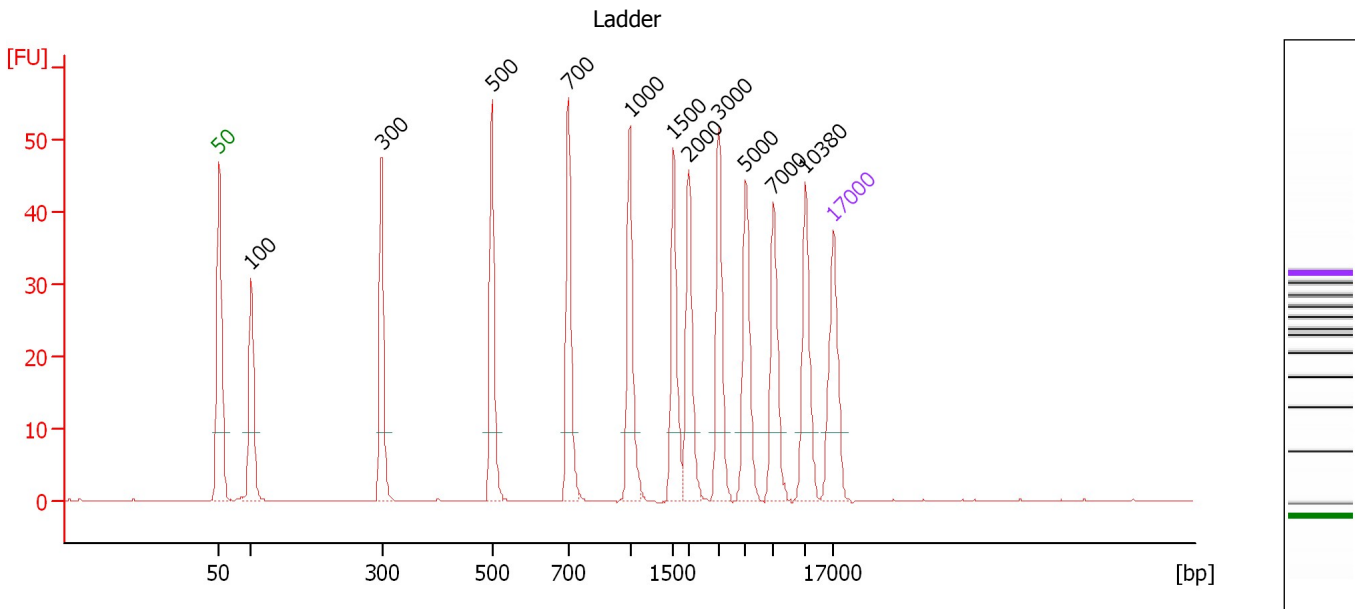
Ladder

Ladder Peak	Size	Area
1	50	120
2	100	48
3	300	61
4	500	77
5	700	81
6	1000	86
7	1500	92
8	2000	92
9	3000	96
10	5000	100
11	7000	98
12	10380	102
13	17000	110

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
 Modified: 9/3/2014 9:35:59 AM

Electropherogram Summary



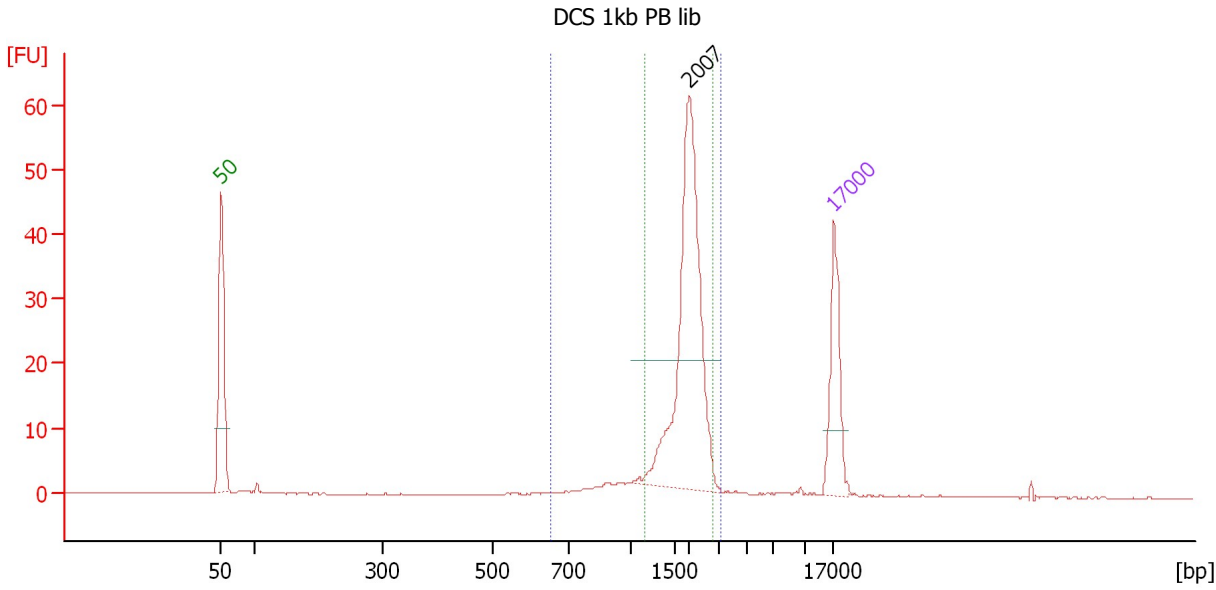
Peak table for Ladder

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	700	4.00	8.7	Ladder Peak
6	1,000	4.00	6.1	Ladder Peak
7	1,500	4.00	4.0	Ladder Peak
8	2,000	4.00	3.0	Ladder Peak
9	3,000	4.00	2.0	Ladder Peak
10	5,000	4.00	1.2	Ladder Peak
11	7,000	4.00	0.9	Ladder Peak
12	10,380	4.00	0.6	Ladder Peak
13	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : DCS 1kb PB lib

Number of peaks found: 1 Area 2: 106.8
 Area 1: 116.9

Peak table for sample 1 : DCS 1kb PB lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	2,007	15.66	11.8	
3	17,000	4.20	0.4	Upper Marker

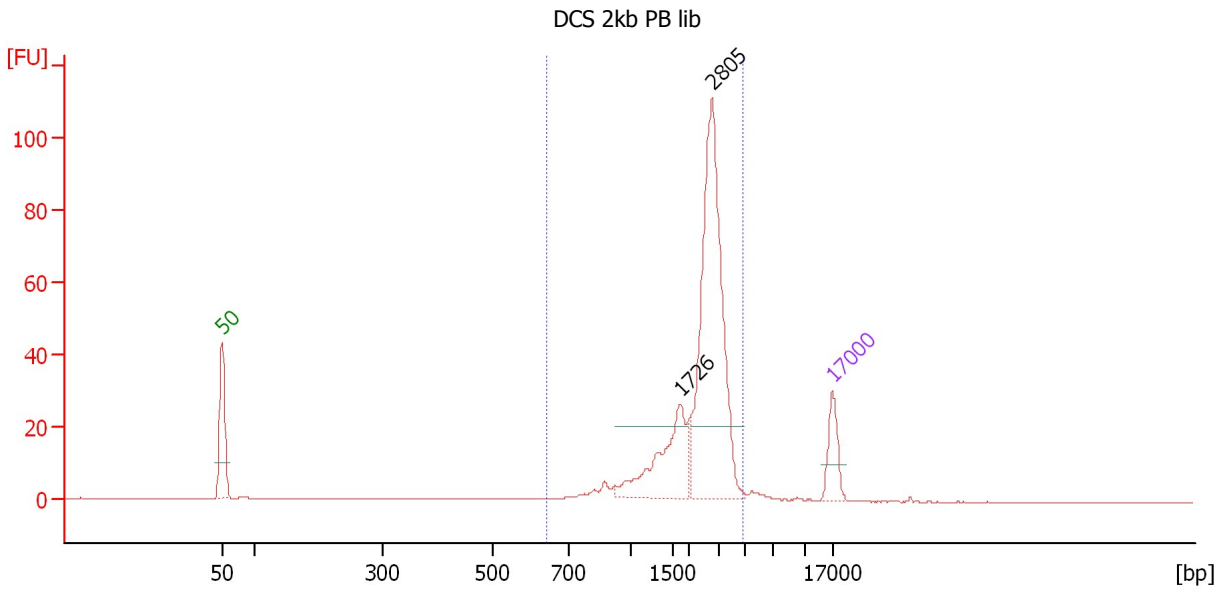
Region table for sample 1 : DCS 1kb PB lib

From [bp]	To [bp]	Conc. [ng/μl]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Color
652	3,108	18.01	116.9	92	1,900	24.0	Blue
1,159	2,789	16.35	106.8	84	1,969	18.3	Green

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : DCS 2kb PB lib

Number of peaks found: 2 Area 1: 257.7

Peak table for sample 2 : DCS 2kb PB lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,726	12.22	10.7	
3	2,805	36.80	19.9	
4	17,000	4.20	0.4	Upper Marker

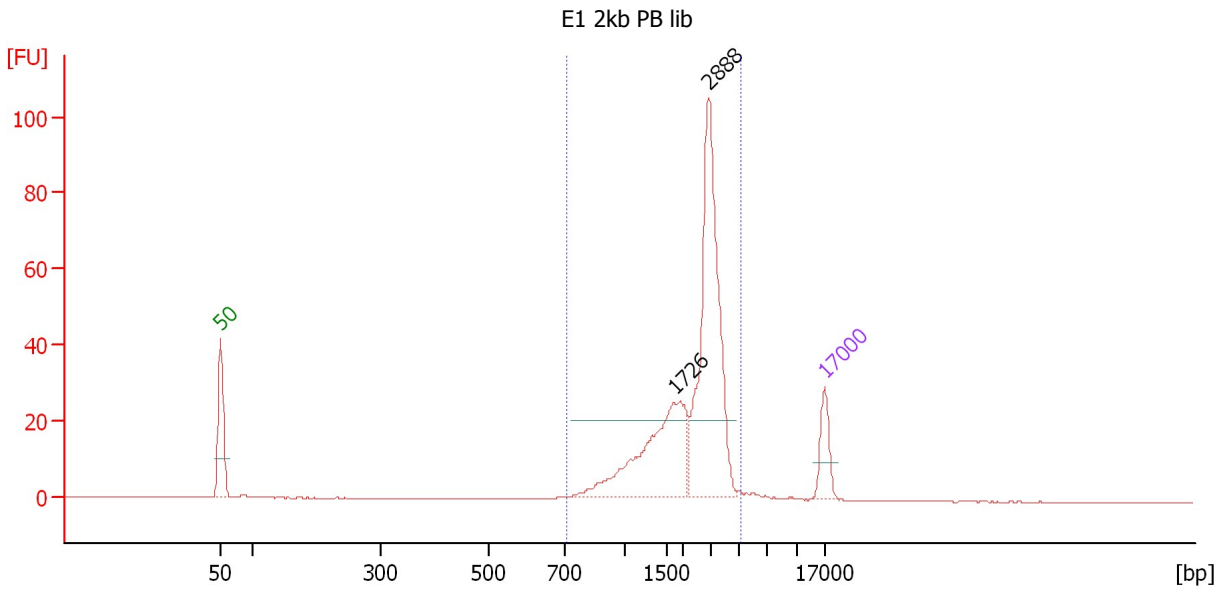
Region table for sample 2 : DCS 2kb PB lib

From [bp]	To [bp]	Conc. [ng/μl]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Color
642	4,774	53.18	257.7	95	2,455	32.5	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
 Modified: 9/3/2014 9:35:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : E1 2kb PB lib

Number of peaks found: 2 Area 1: 247.8

Peak table for sample 3 : E1 2kb PB lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,726	20.09	17.6	
3	2,888	32.42	17.0	
4	17,000	4.20	0.4	Upper Marker

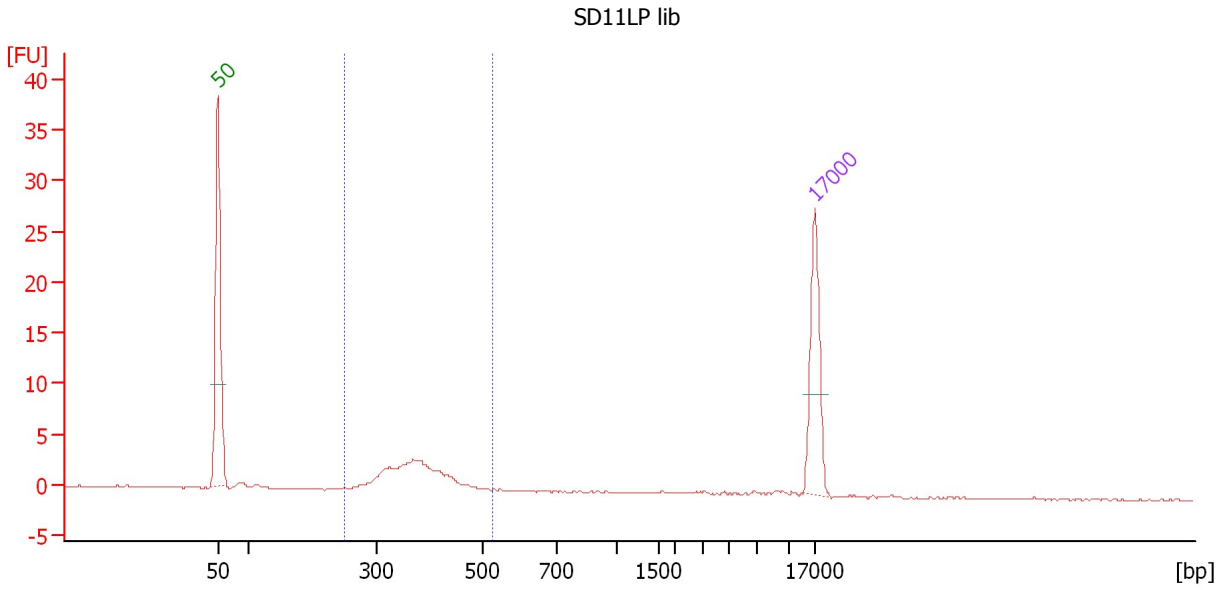
Region table for sample 3 : E1 2kb PB lib

From [bp]	To [bp]	Conc. [ng/μl]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Color
711	5,240	55.63	247.8	97	2,432	37.6	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
 Modified: 9/3/2014 9:35:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SD11LP lib

Number of peaks found: 0 Area 1: 15.0

Peak table for sample 4 : SD11LP lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

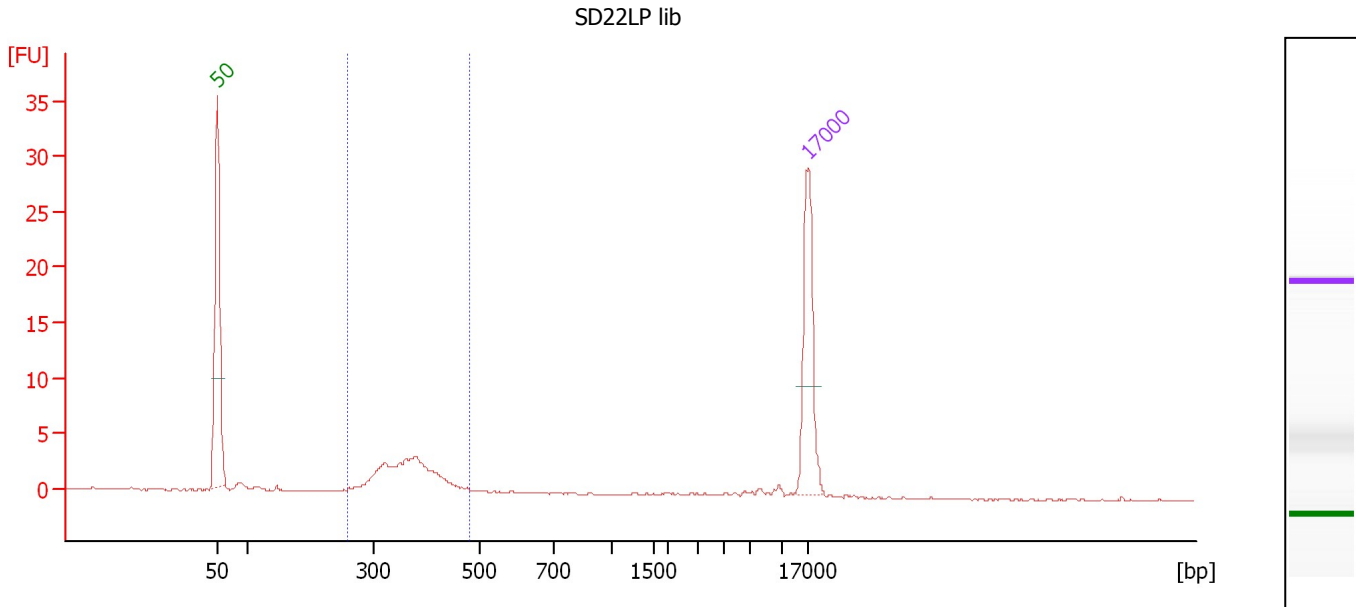
Region table for sample 4 : SD11LP lib

From [bp]	To [bp]	Conc. [ng/μl]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Color
250	526	4.73	15.0	67	375	14.4	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
 Modified: 9/3/2014 9:35:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SD22LP lib

Number of peaks found: 0 Area 1: 14.1

Peak table for sample 5 : SD22LP lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

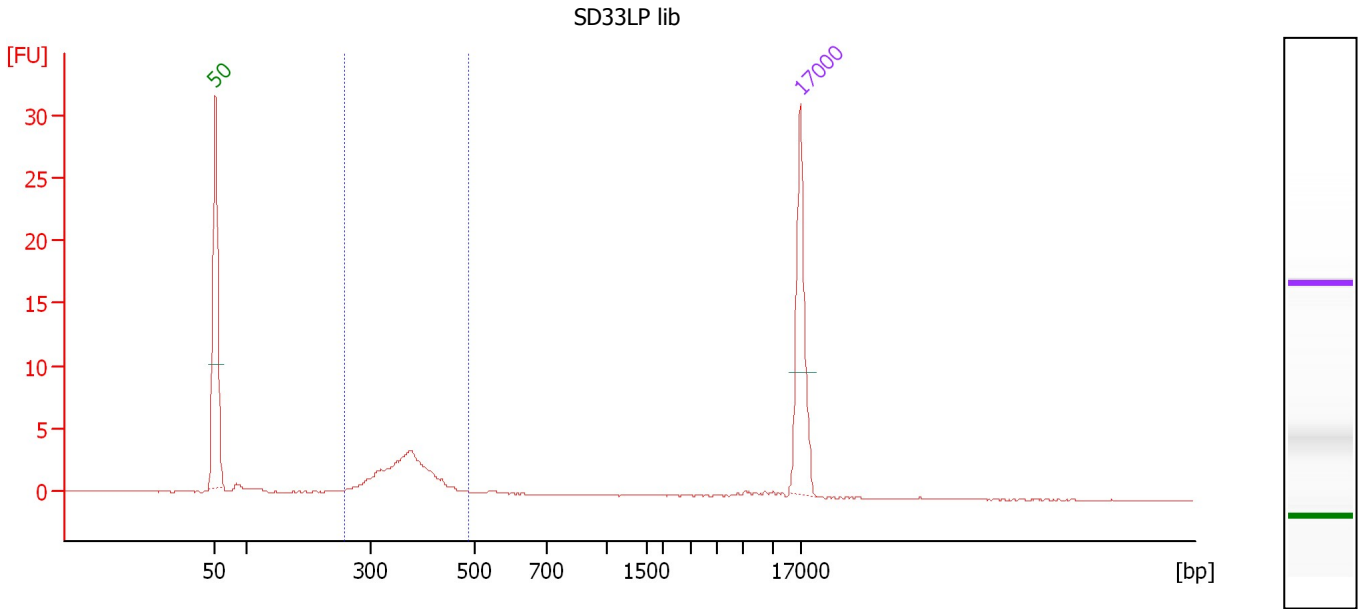
Region table for sample 5 : SD22LP lib

From [bp]	To [bp]	Conc. [ng/μl]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Color
258	482	4.11	14.1	73	365	13.0	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
 Modified: 9/3/2014 9:35:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SD33LP lib

Number of peaks found: 0 Area 1: 12.8

Peak table for sample 6 : SD33LP lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

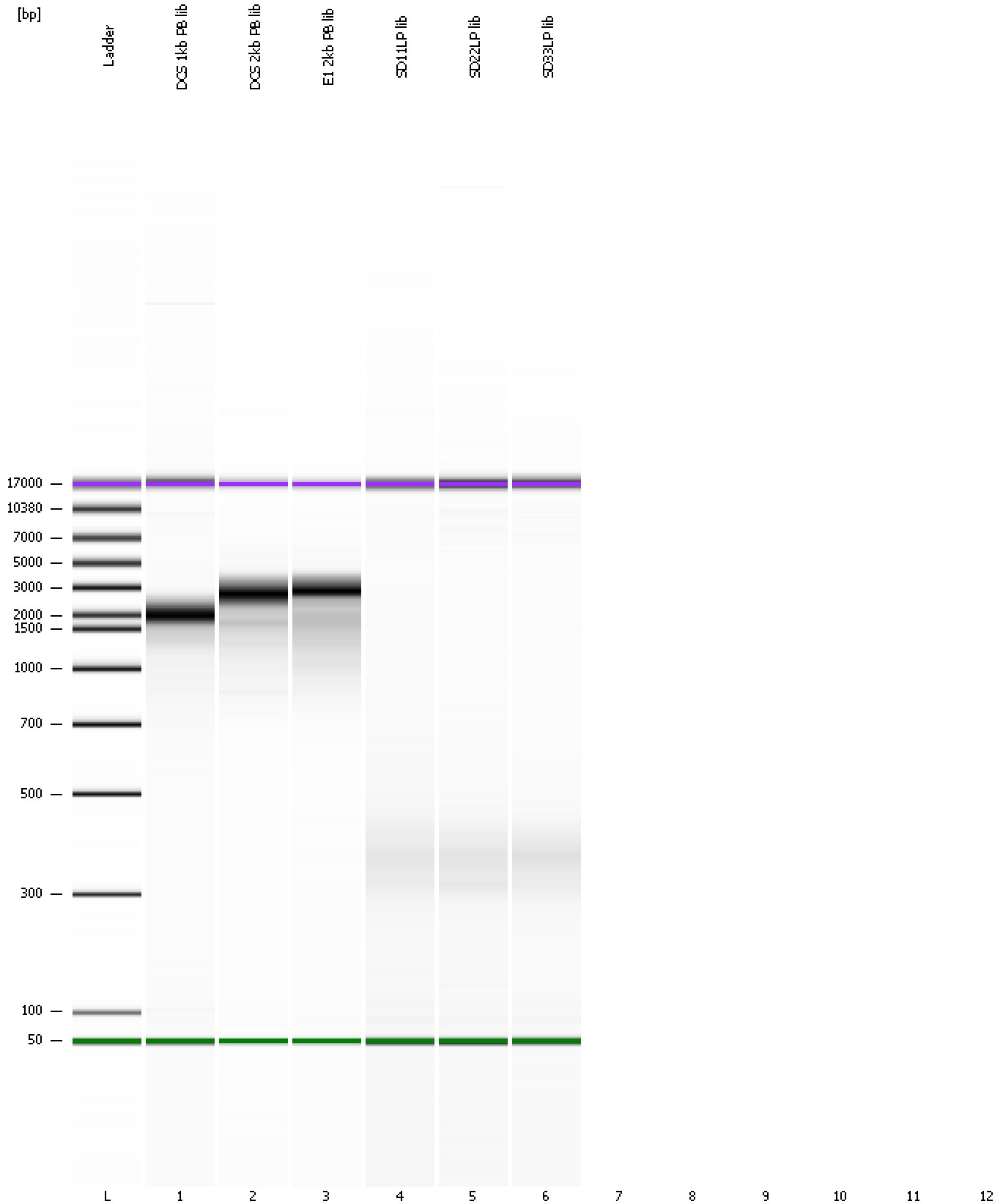
Region table for sample 6 : SD33LP lib

From [bp]	To [bp]	Conc. [ng/μl]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Color
259	490	4.20	12.8	79	368	12.6	Blue

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
Modified: 9/3/2014 9:35:59 AM

Gel Image



Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
Modified: 9/3/2014 9:35:59 AM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad

Created: 9/3/2014 9:08:47 AM
 Modified: 9/3/2014 9:35:59 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		9/3/2014 9:31:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-03\2014-09-03_001.xad)		Instrument	Run		9/3/2014 9:08:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/3/2014 9:08:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/3/2014 9:08:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/3/2014 9:08:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/3/2014 9:08:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/3/2014 9:08:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/3/2014 9:08:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1