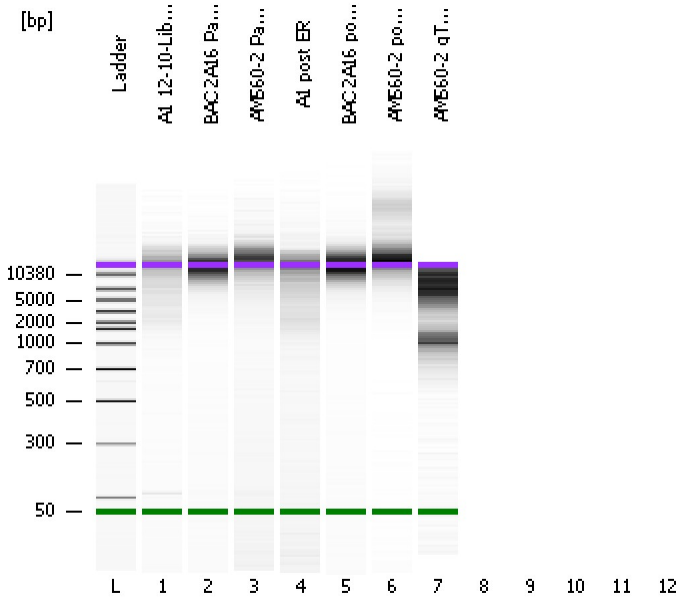


Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
Modified: 12/10/2014 6:00:38 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\DNA 12000 Series II.xsy

Assay Class: DNA 12000
Version: 2.4
Assay Comments: DNA Analysis 100 -12000 bp

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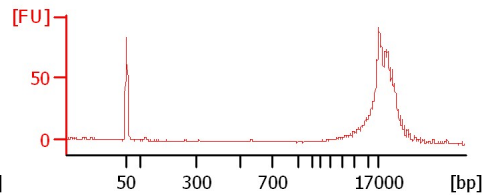
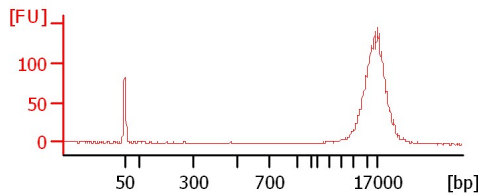
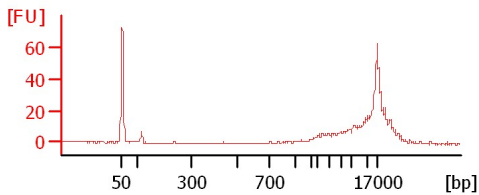
Chip Information:

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

A1 12-10-Lib PacBio Lib

BAC 2A16 PacBio Lib

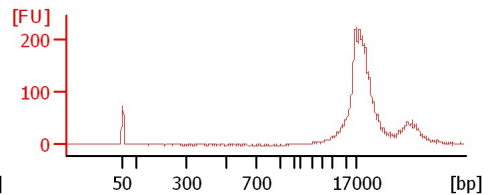
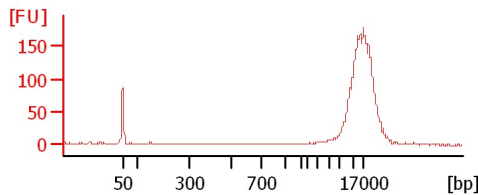
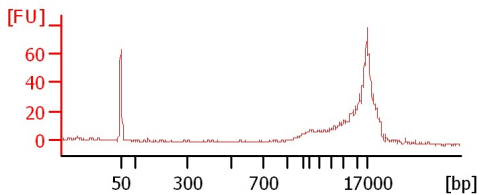
AM560-2 PacBio Lib (12/10)



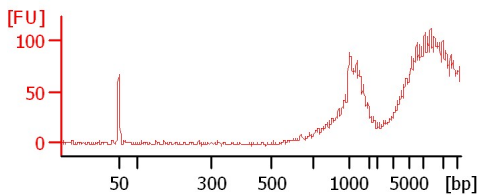
A1 post ER

BAC 2A16 post ER

AM560-2 post ER



AM560-2 gT4500



Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A1 12-10-Lib PacBio Lib		<input type="checkbox"/>		✓		
BAC 2A16 PacBio Lib		<input type="checkbox"/>		✓		
AM560-2 PacBio Lib (12/10)		<input type="checkbox"/>		✓		
A1 post ER		<input type="checkbox"/>		✓		
BAC 2A16 post ER		<input type="checkbox"/>		✓		
AM560-2 post ER		<input type="checkbox"/>		✓		
AM560-2 gT4500		<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\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
Modified: 12/10/2014 6:00:38 PM

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

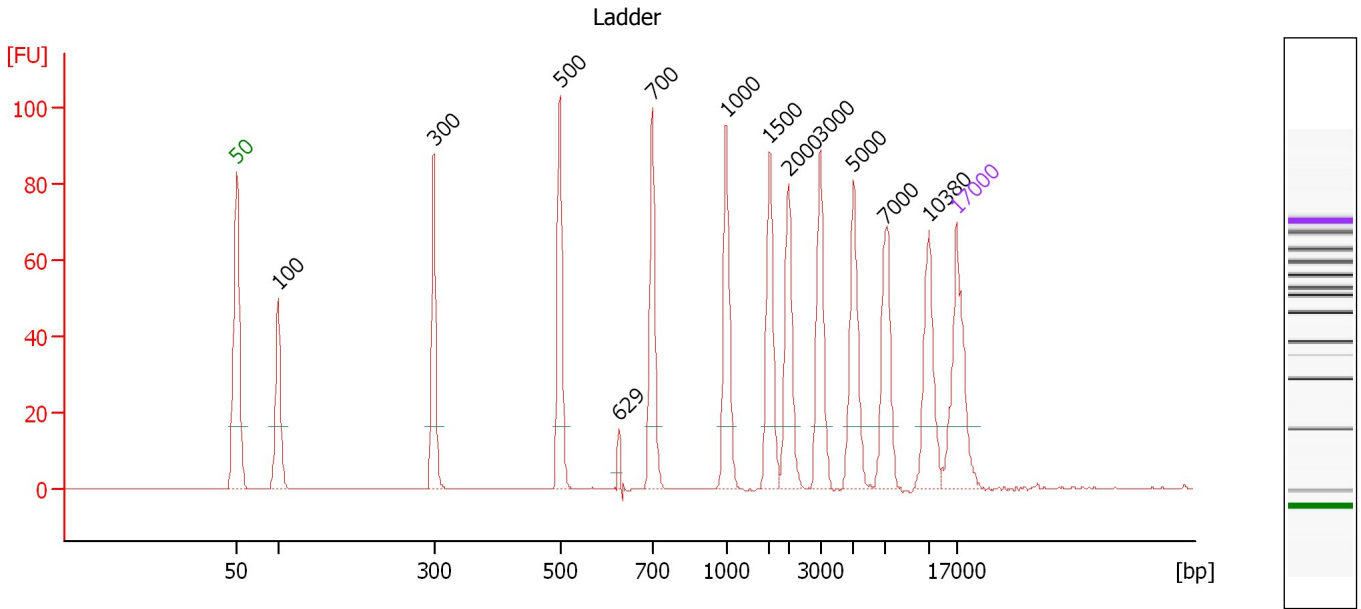
Ladder

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\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electropherogram Summary



Peak table for Ladder

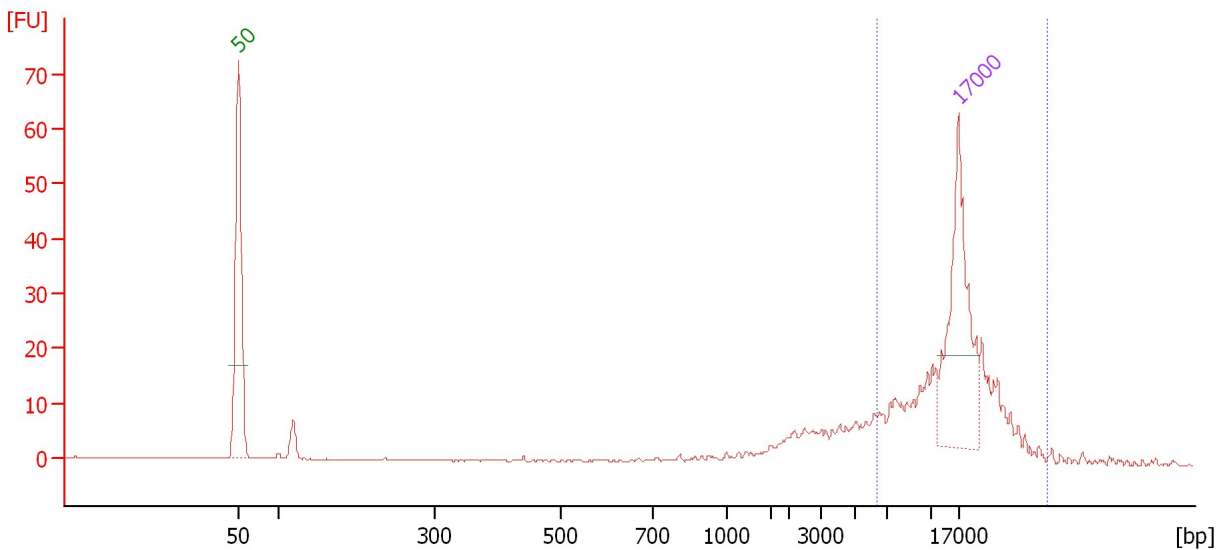
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	629	0.00	0.0	
6	700	4.00	8.7	Ladder Peak
7	1,000	4.00	6.1	Ladder Peak
8	1,500	4.00	4.0	Ladder Peak
9	2,000	4.00	3.0	Ladder Peak
10	3,000	4.00	2.0	Ladder Peak
11	5,000	4.00	1.2	Ladder Peak
12	7,000	4.00	0.9	Ladder Peak
13	10,380	4.00	0.6	Ladder Peak
14	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electropherogram Summary Continued ...

A1 12-10-Lib PacBio Lib



Overall Results for sample 1 : A1 12-10-Lib PacBio Lib

Number of peaks found: 0 Area 1: 89.9

Peak table for sample 1 : A1 12-10-Lib PacBio 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 1 : A1 12-10-Lib PacBio Lib

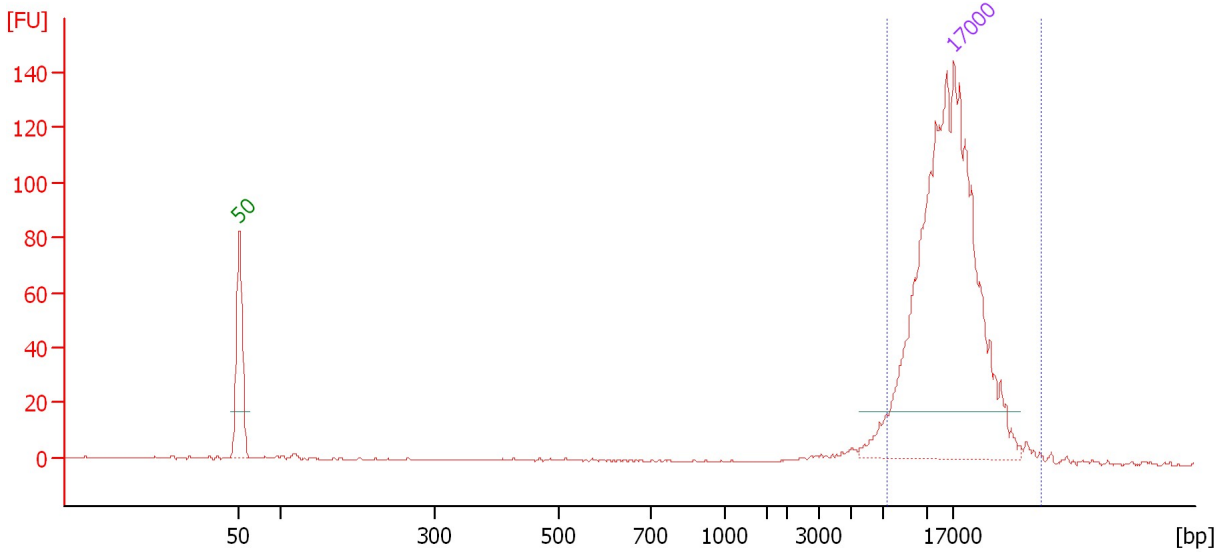
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
6,312	38,157	16,962	4.53	89.9	59	39.9	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electropherogram Summary Continued ...

BAC 2A16 PacBio Lib



Overall Results for sample 2 : BAC 2A16 PacBio Lib

Number of peaks found: 0 Area 1: 6.1

Peak table for sample 2 : BAC 2A16 PacBio 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 2 : BAC 2A16 PacBio Lib

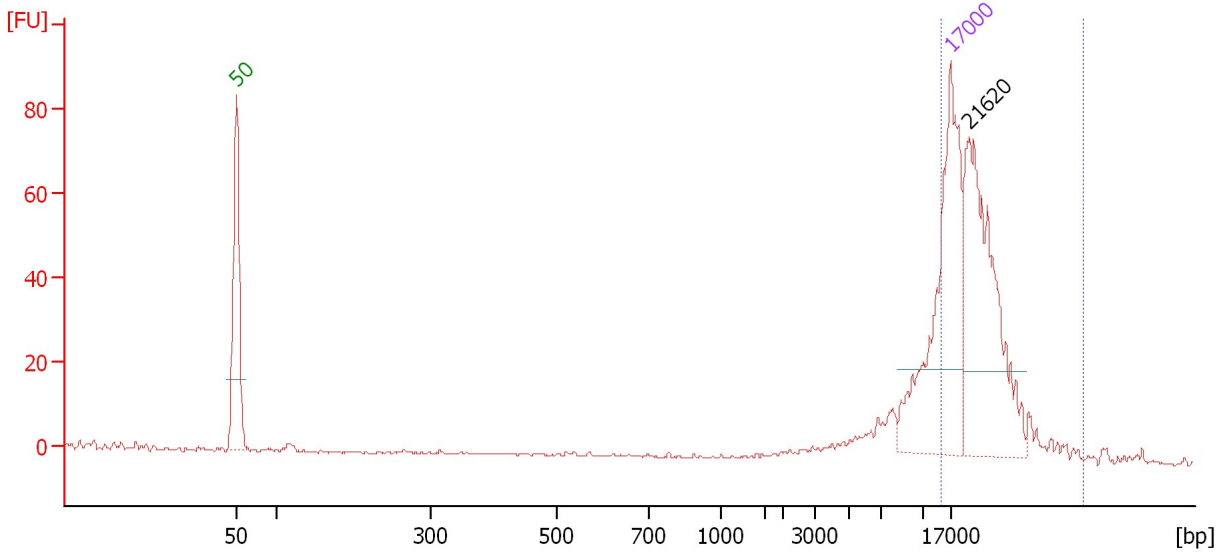
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
7,221	37,888	16,316	0.04	6.1	26	36.2	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electropherogram Summary Continued ...

AM560-2 PacBio Lib (12/10)



Overall Results for sample 3 : AM560-2 PacBio Lib (12/10)

Number of peaks found: 0 Area 1: 202.1

Peak table for sample 3 : AM560-2 PacBio Lib (12/10)

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
3	21,620	0.00	0.0	

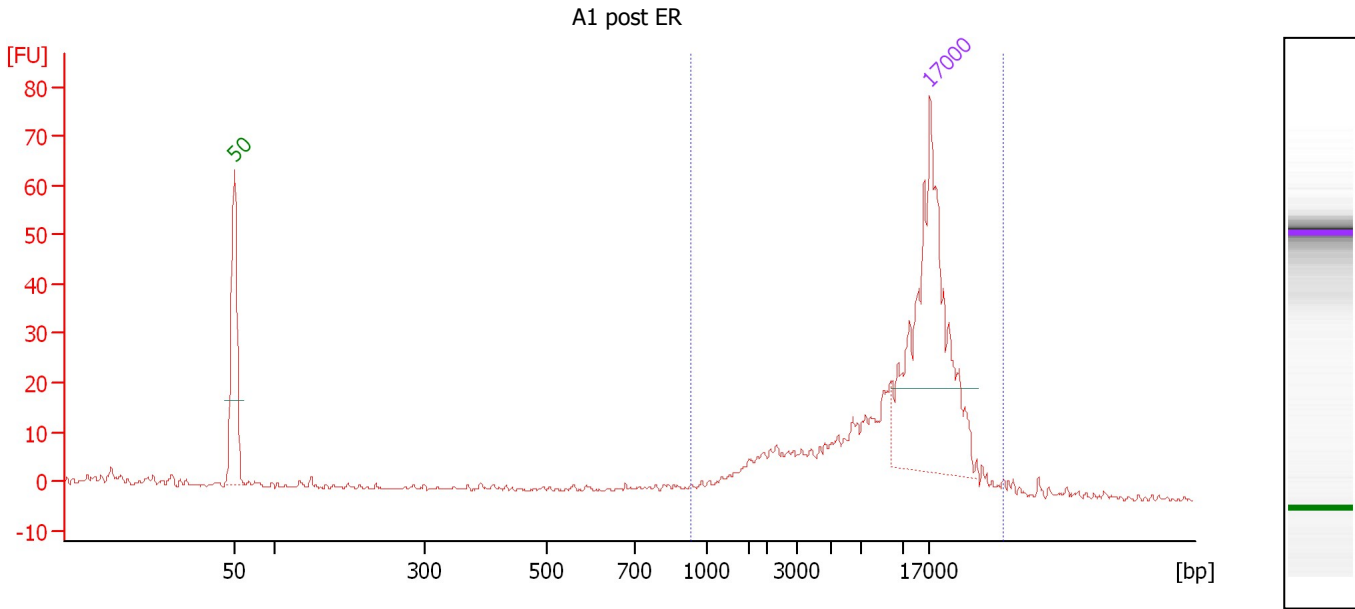
Region table for sample 3 : AM560-2 PacBio Lib (12/10)

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
14,697	48,873	22,957	4.54	202.1	85	26.4	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : A1 post ER

Number of peaks found: 0 Area 1: 126.2

Peak table for sample 4 : A1 post ER

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

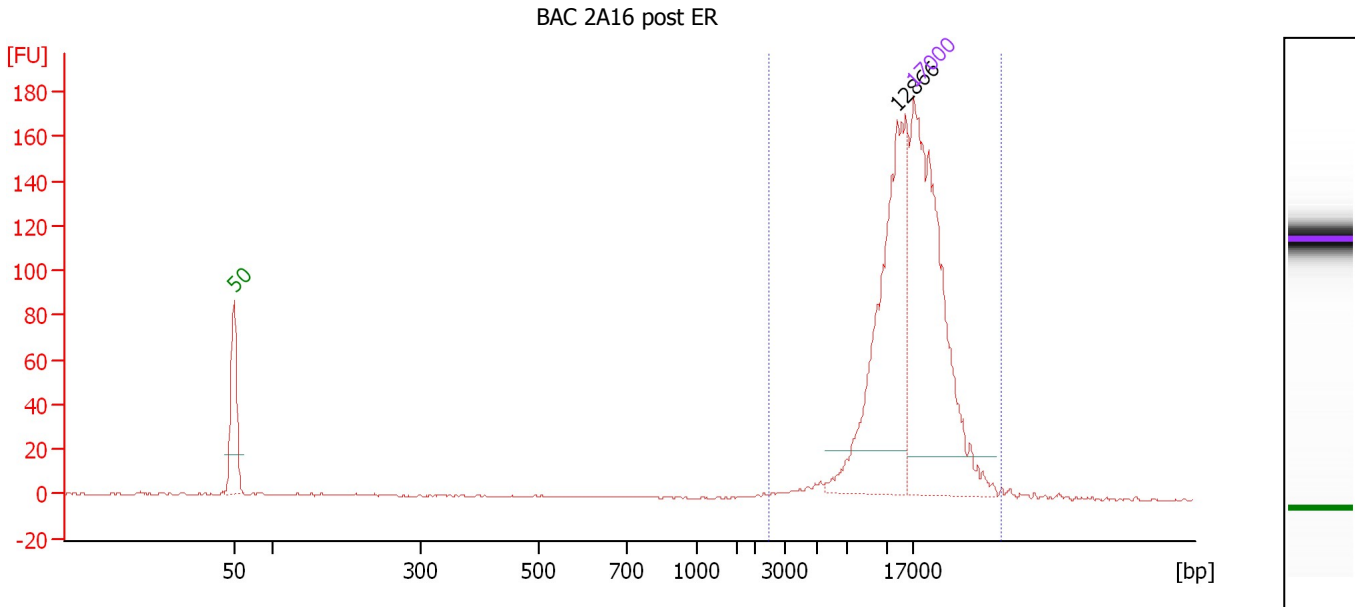
Region table for sample 4 : A1 post ER

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
934	35,051	13,096	3.25	126.2	84	57.2	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BAC 2A16 post ER

Number of peaks found: 1 Area 1: 402.5

Peak table for sample 5 : BAC 2A16 post ER

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	12,866	3.48	0.4	
3	17,000	4.20	0.4	Upper Marker

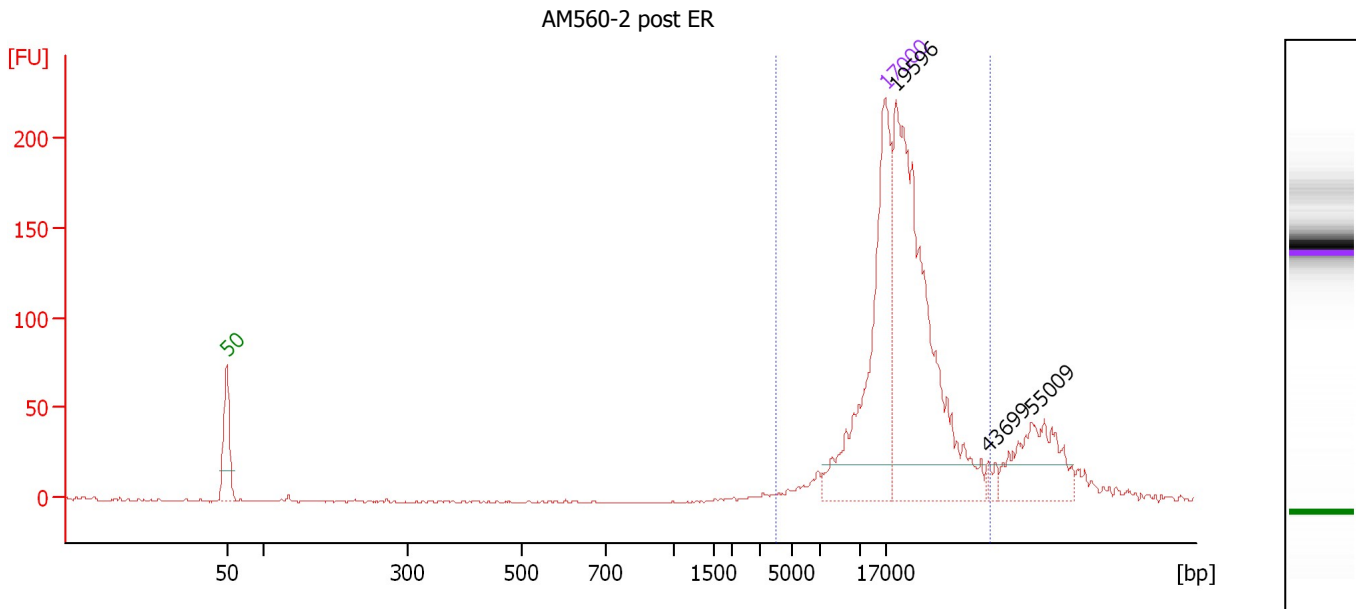
Region table for sample 5 : BAC 2A16 post ER

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
2,501	38,918	16,676	3.67	402.5	96	39.1	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AM560-2 post ER

Number of peaks found: 0 Area 1: 623.1

Peak table for sample 6 : AM560-2 post ER

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
3	19,596	0.00	0.0	
4	43,699	0.00	0.0	
5	55,009	0.00	0.0	

Region table for sample 6 : AM560-2 post ER

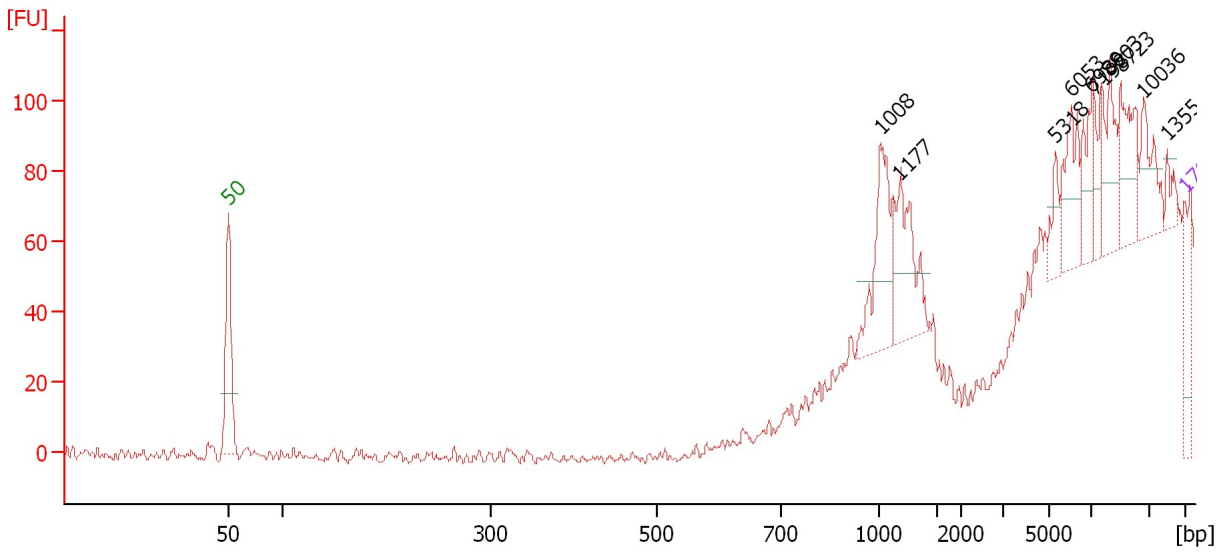
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
4,056	44,080	21,079	6.51	623.1	76	36.5	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Electropherogram Summary Continued ...

AM560-2 gT4500



Overall Results for sample 7 : AM560-2 gT4500

Number of peaks found: 10

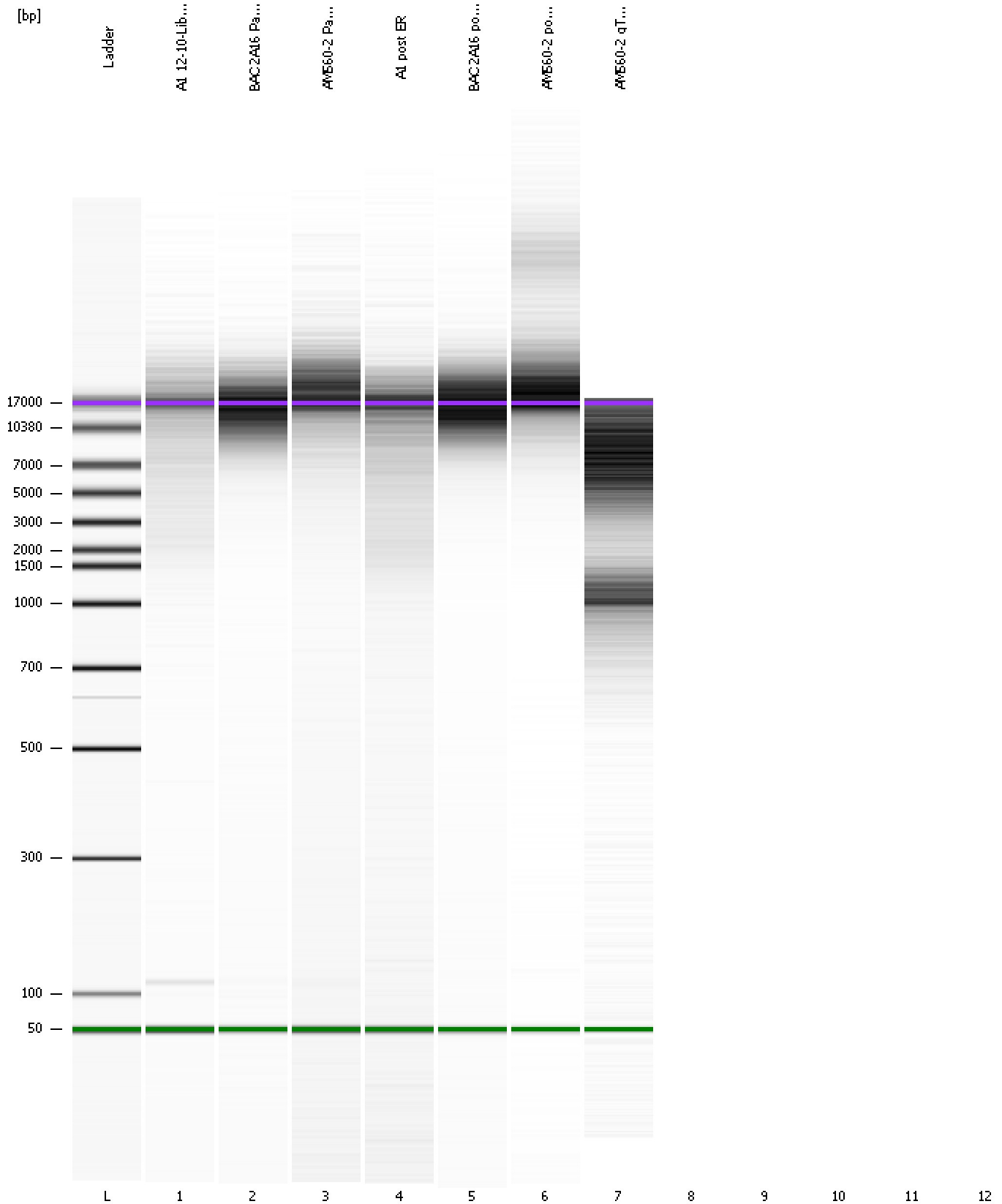
Peak table for sample 7 : AM560-2 gT4500

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,008	8.26	12.4	
3	1,177	7.38	9.5	
4	5,318	2.00	0.6	
5	6,053	4.97	1.2	
6	6,989	2.86	0.6	
7	7,198	1.90	0.4	
8	8,003	4.74	0.9	
9	8,723	4.69	0.8	
10	10,036	3.83	0.6	
11	13,554	1.14	0.1	
12	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
Modified: 12/10/2014 6:00:38 PM

Gel Image



Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
Modified: 12/10/2014 6:00:38 PM

Invalid Samples

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\2014-12-10\2014-12-10_008.xad

Created: 12/10/2014 5:23:14 PM
 Modified: 12/10/2014 6:00:38 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		12/10/2014 5:47:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-10\2014-12-10_008.xad)		Instrument	Run		12/10/2014 5:23:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/10/2014 5:23:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/10/2014 5:23:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/10/2014 5:23:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/10/2014 5:23:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/10/2014 5:23:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/10/2014 5:23:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1