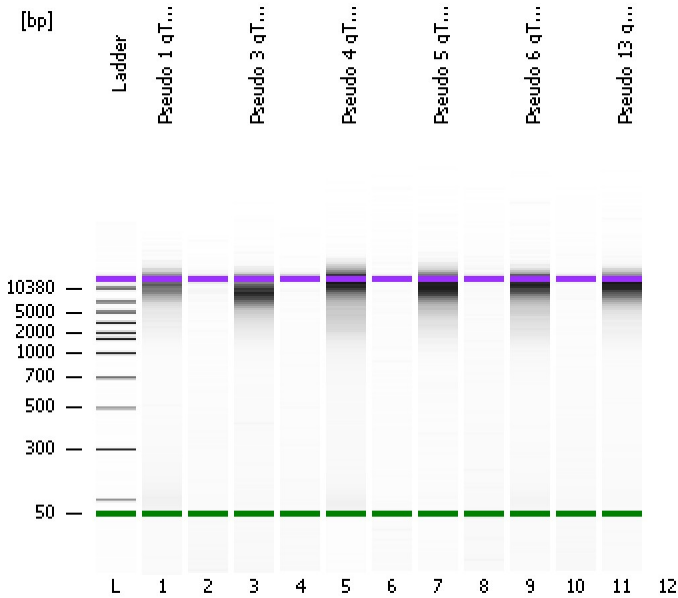


Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 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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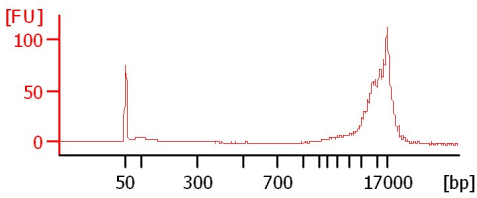
Chip Information:

Chip Lot #:

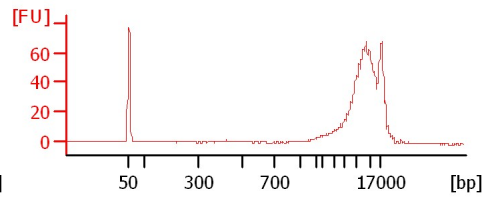
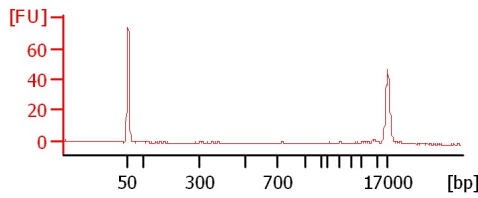
Reagent Kit Lot #:

Chip Comments:

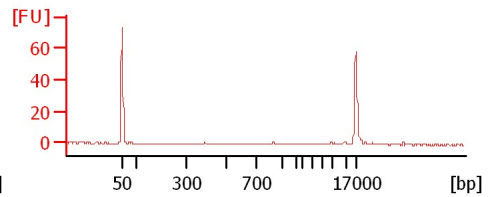
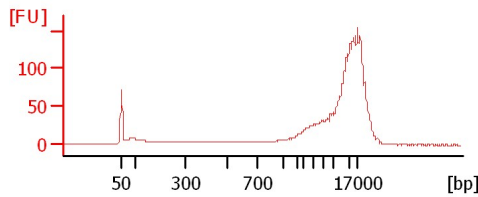
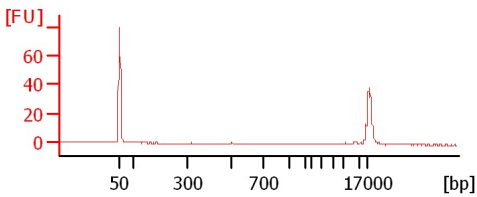
**Pseudo 1 gT4800**



**Pseudo 3 gT4800**

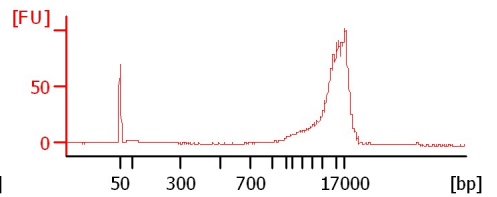
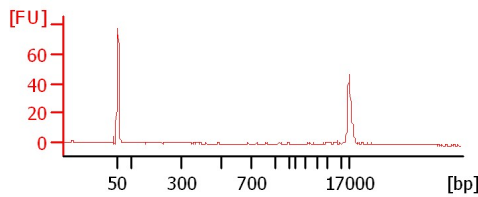
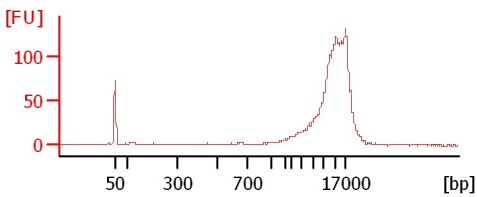


**Pseudo 4 gT4800**

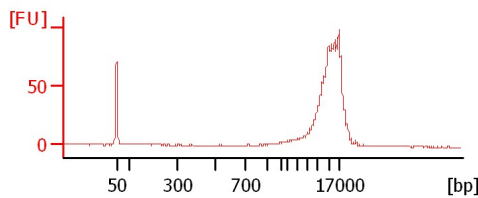
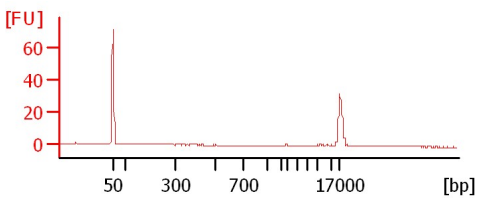


**Pseudo 5 gT4900**

**Pseudo 6 gT4800 + 5500**



**Pseudo 13 gT4900 + 6500**



Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Pseudo 1 gT4800		<input type="checkbox"/>	✓			
Pseudo 3 gT4800		<input type="checkbox"/>	✓			
Pseudo 4 gT4800		<input type="checkbox"/>	✓			
Pseudo 5 gT4900		<input type="checkbox"/>	✓			
Pseudo 6 gT4800 + 5500		<input type="checkbox"/>	✓			
Pseudo 13 gT4900 + 6500		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
<b>Chip Lot #</b>				<b>Reagent Kit Lot #</b>		

**Chip Comments :**

Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 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

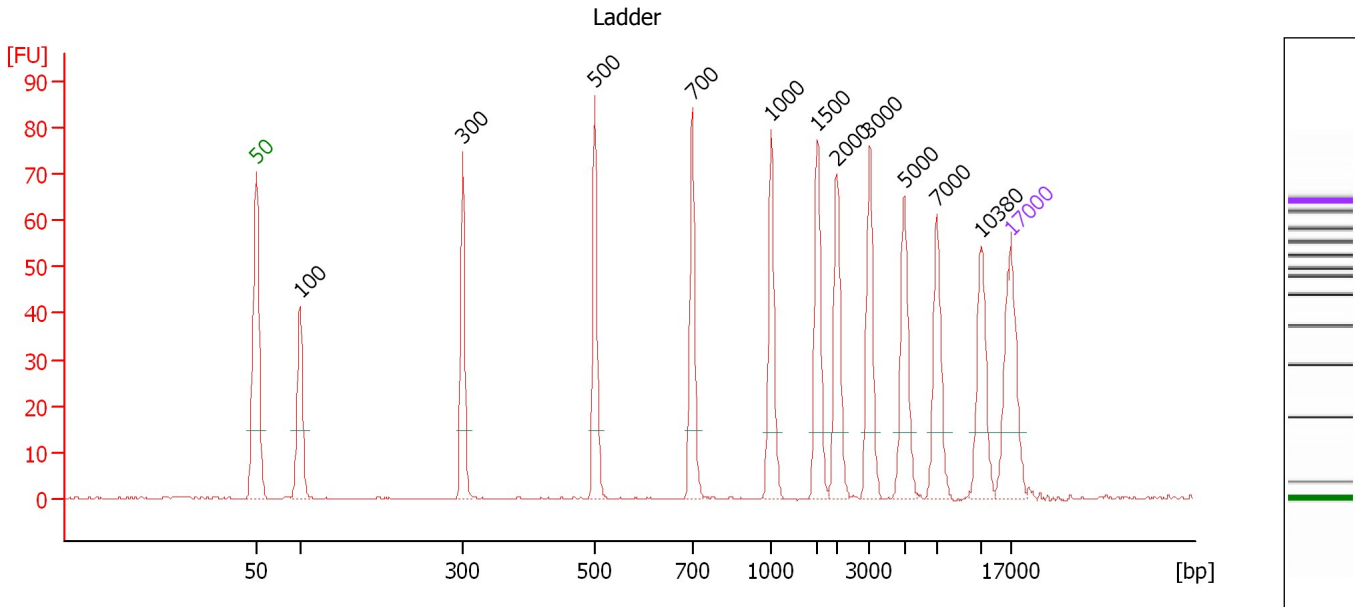
**Ladder**

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\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary**



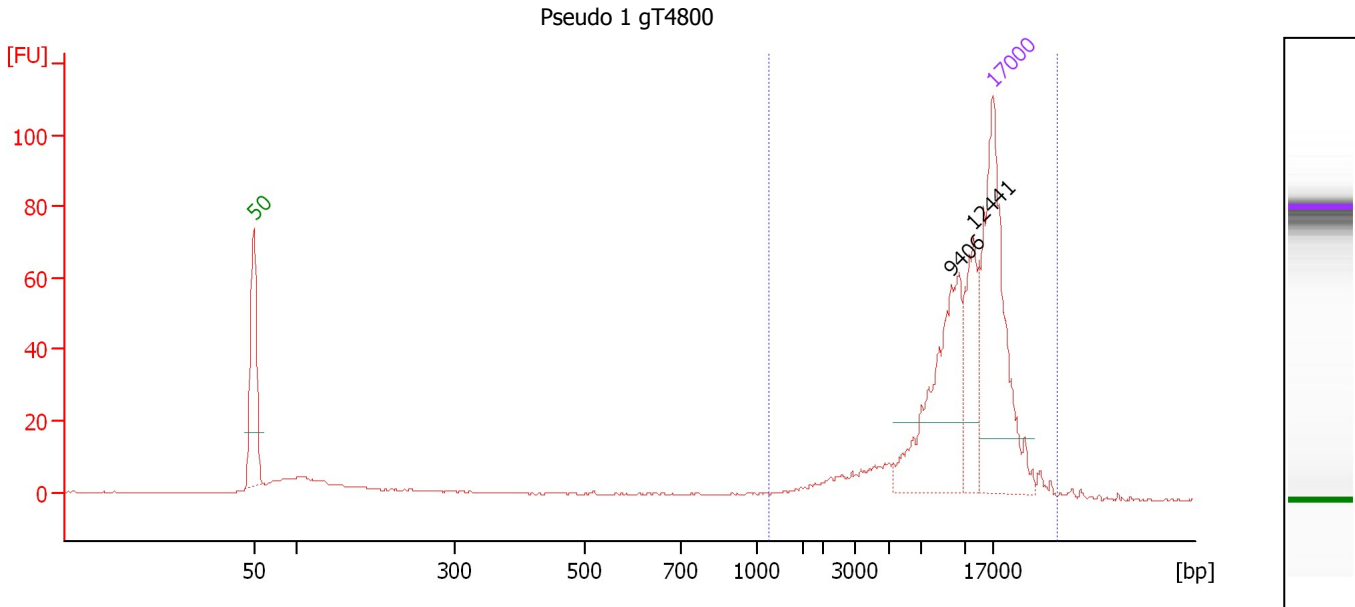
**Peak table for Ladder**

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\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Pseudo 1 gT4800**

Number of peaks found: 2                      Area 1: 268.1

**Peak table for sample 1 : Pseudo 1 gT4800**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,406	3.48	0.6	
3	12,441	1.59	0.2	
4	17,000	4.20	0.4	Upper Marker

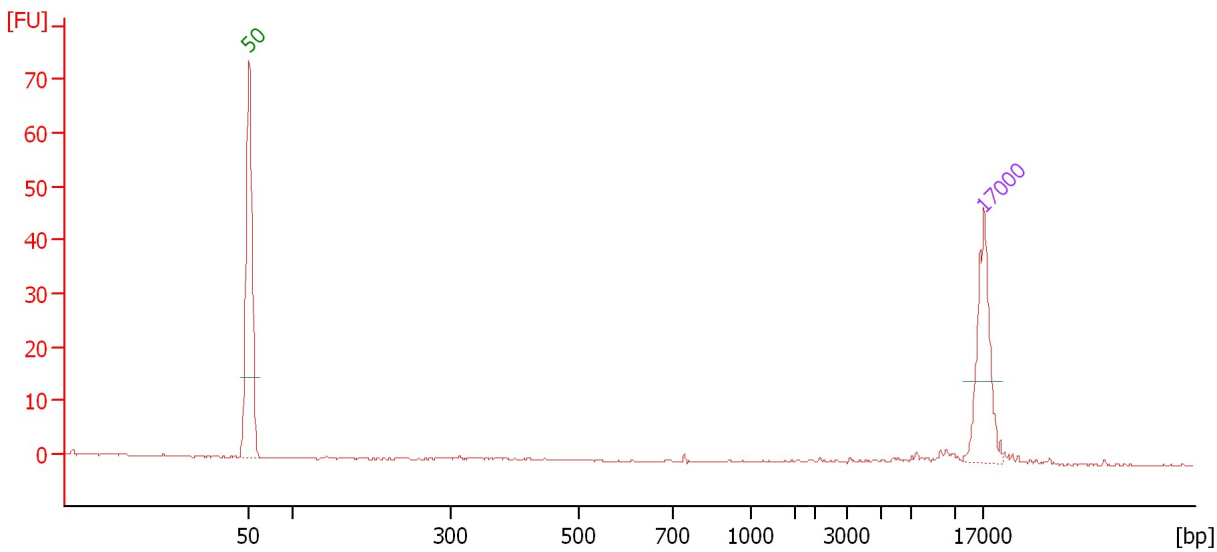
**Region table for sample 1 : Pseudo 1 gT4800**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
1,132	32,287	12,773	6.27	268.1	87	44.8	Blue

Assay Class: DNA 12000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 :**

Number of peaks found: 0

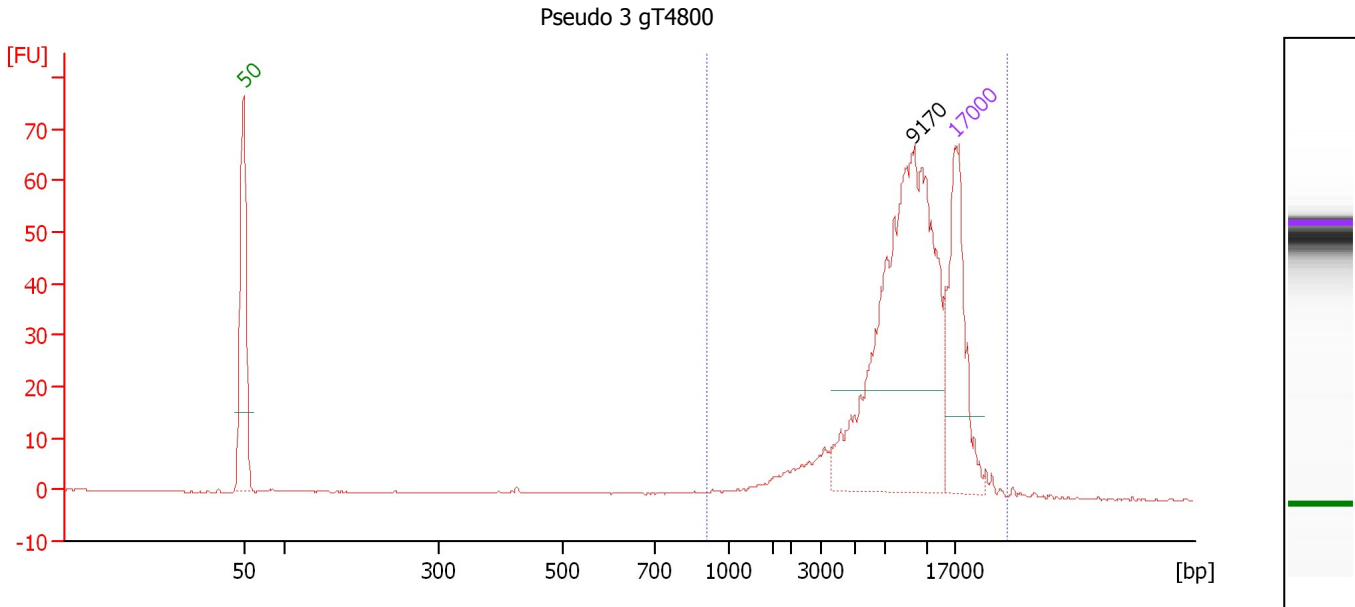
**Peak table for sample 2 :**

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

Assay Class: DNA 12000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Pseudo 3 gT4800**

Number of peaks found: 1                      Area 1: 342.6

**Peak table for sample 3 : Pseudo 3 gT4800**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,170	14.43	2.4	
3	17,000	4.20	0.4	Upper Marker

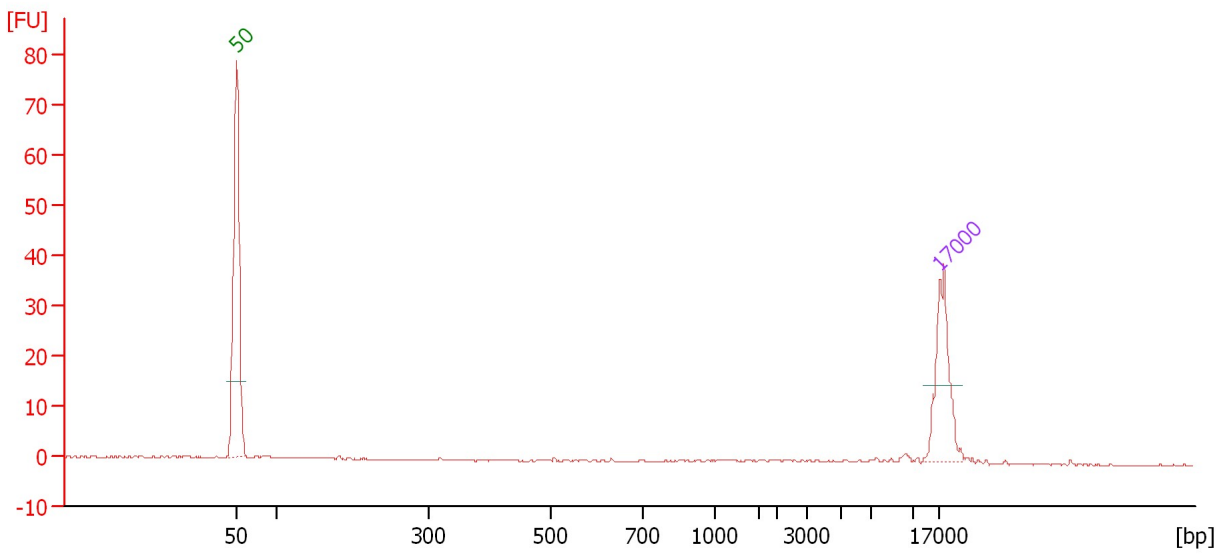
**Region table for sample 3 : Pseudo 3 gT4800**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
913	29,708	10,283	16.61	342.6	96	49.6	Blue

Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 :**

Number of peaks found: 0

**Peak table for sample 4 :**

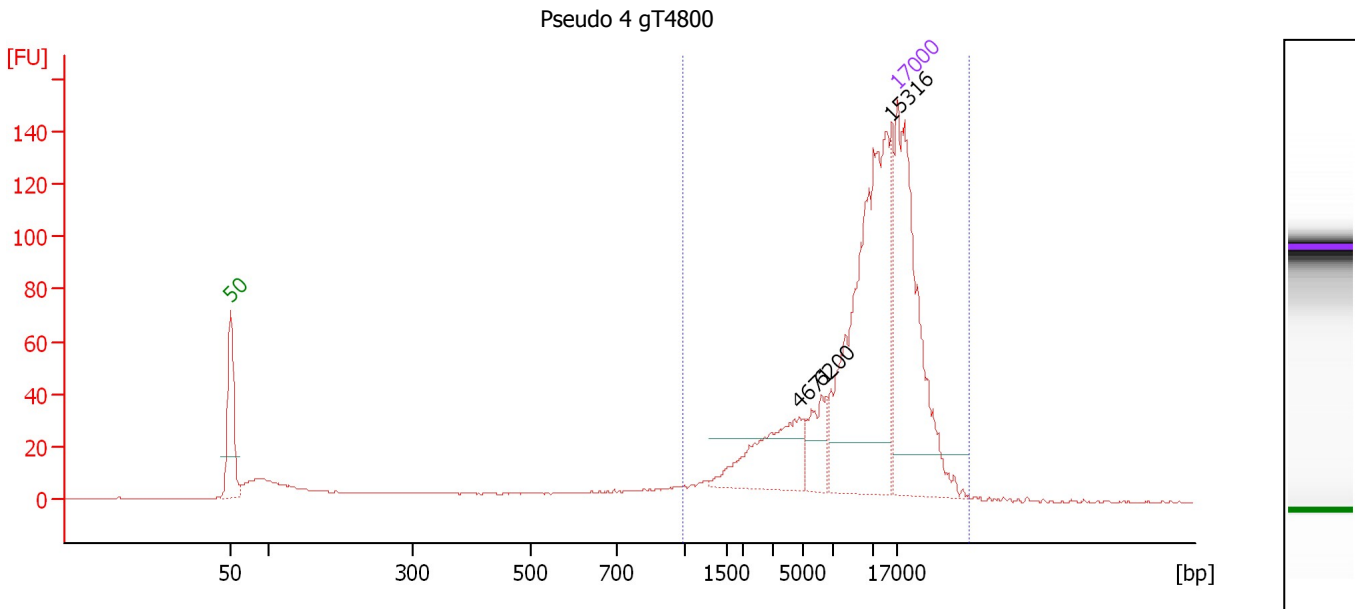
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker



Assay Class: DNA 12000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Pseudo 4 gT4800**

Number of peaks found: 3 Area 1: 635.7

**Peak table for sample 5 : Pseudo 4 gT4800**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	4,671	1.72	0.6	
3	6,200	0.80	0.2	
4	15,316	5.97	0.6	
5	17,000	4.20	0.4	Upper Marker

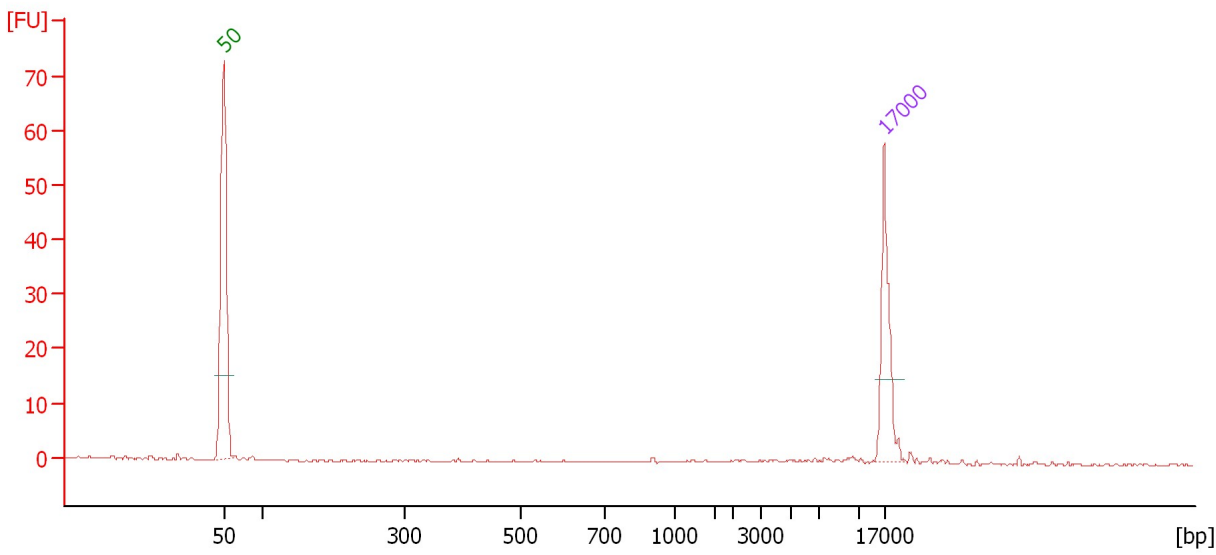
**Region table for sample 5 : Pseudo 4 gT4800**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
992	35,799	12,439	9.99	635.7	85	55.8	Blue

Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 :**

Number of peaks found: 0

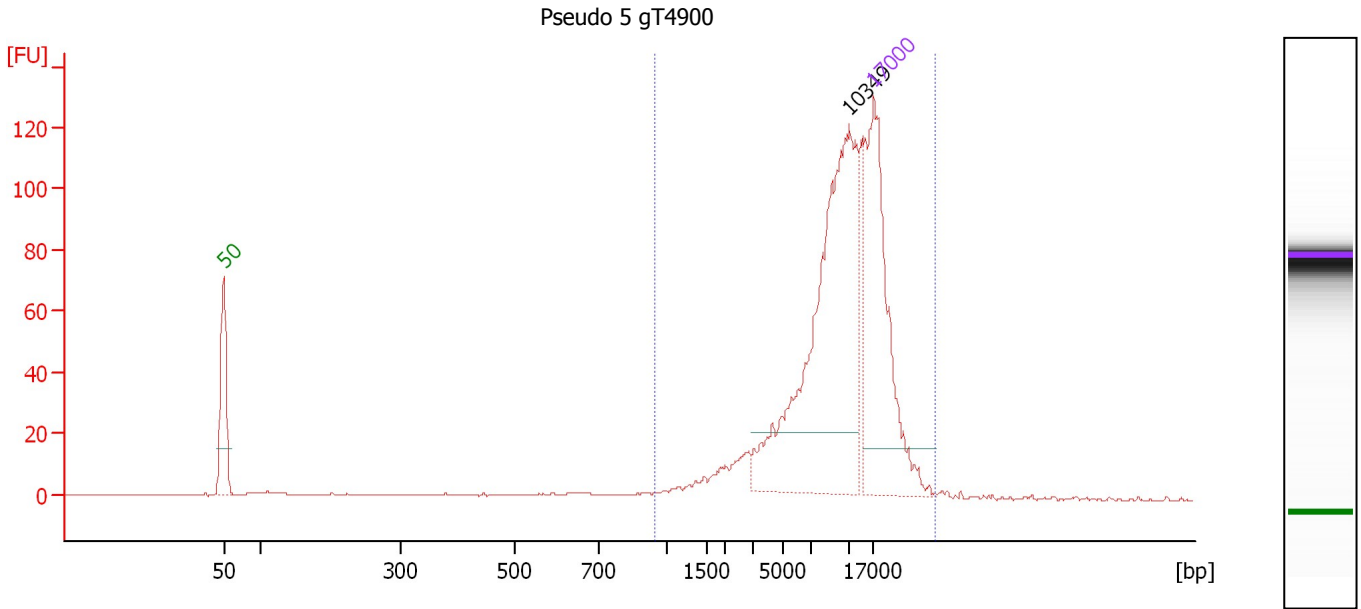
**Peak table for sample 6 :**

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

Assay Class: DNA 12000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Pseudo 5 gT4900**

Number of peaks found: 1 Area: 516.9

**Peak table for sample 7 : Pseudo 5 gT4900**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,349	7.63	1.1	
3	17,000	4.20	0.4	Upper Marker

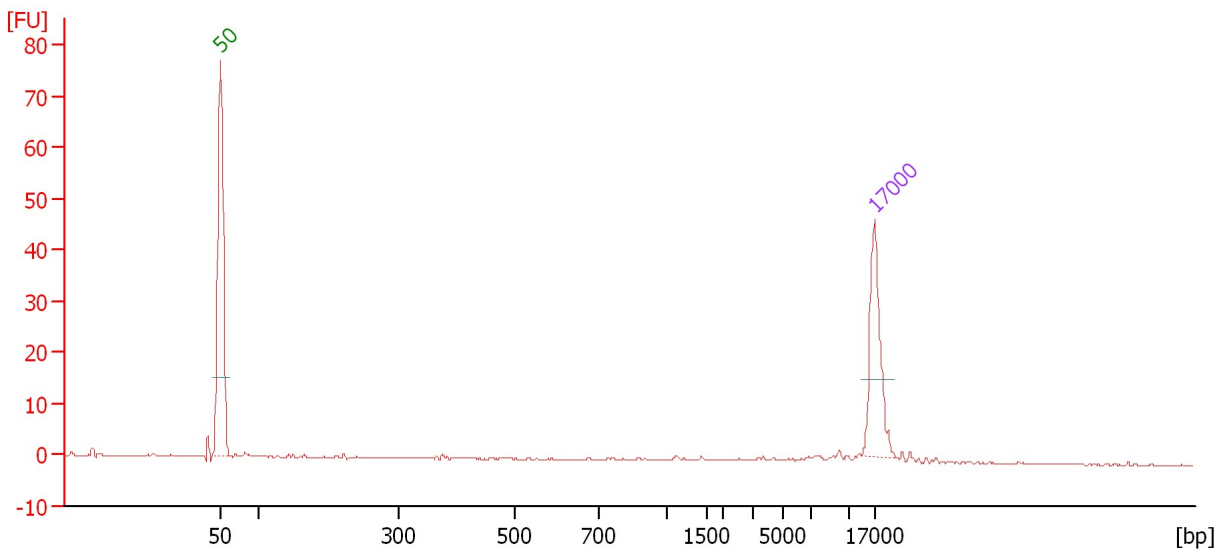
**Region table for sample 7 : Pseudo 5 gT4900**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
943	33,684	11,684	9.66	516.9	95	51.0	Blue

Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 :**

Number of peaks found: 0

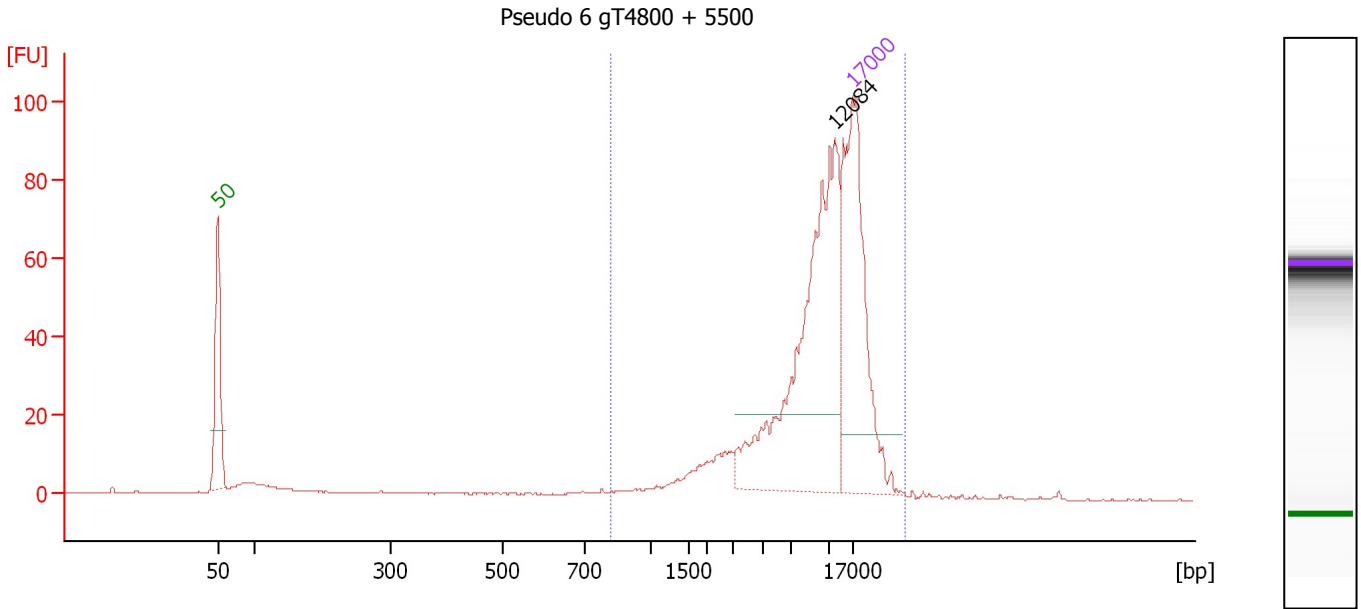
**Peak table for sample 8 :**

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

Assay Class: DNA 12000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Pseudo 6 gT4800 + 5500**

Number of peaks found: 1                      Area 1: 336.7

**Peak table for sample 9 : Pseudo 6 gT4800 + 5500**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	12,084	6.80	0.9	
3	17,000	4.20	0.4	Upper Marker

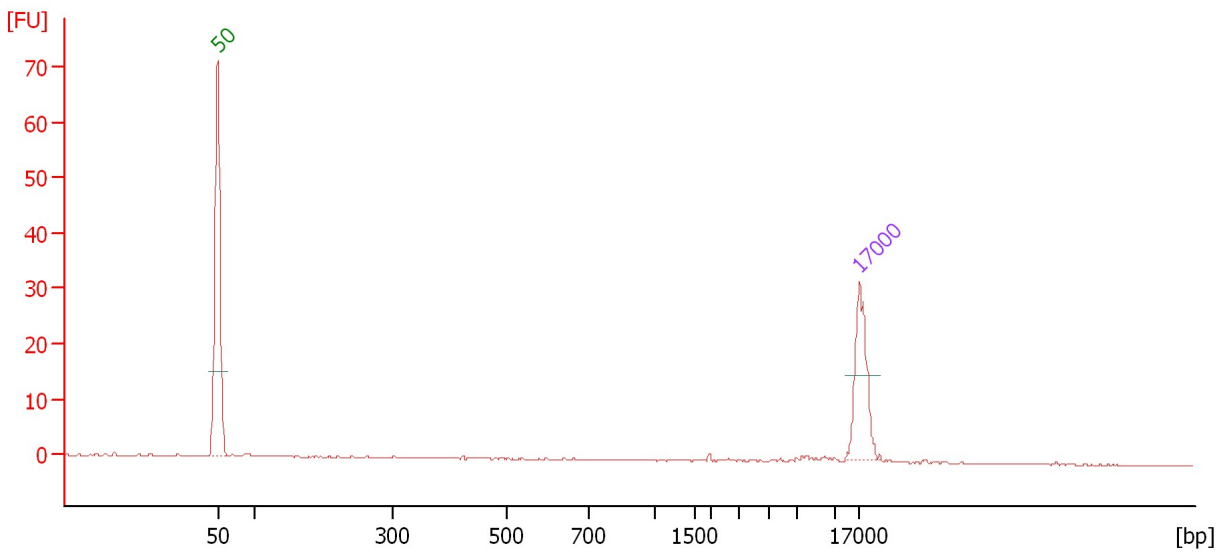
**Region table for sample 9 : Pseudo 6 gT4800 + 5500**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
816	31,239	11,650	8.49	336.7	91	50.9	Blue

Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 :**

Number of peaks found: 0

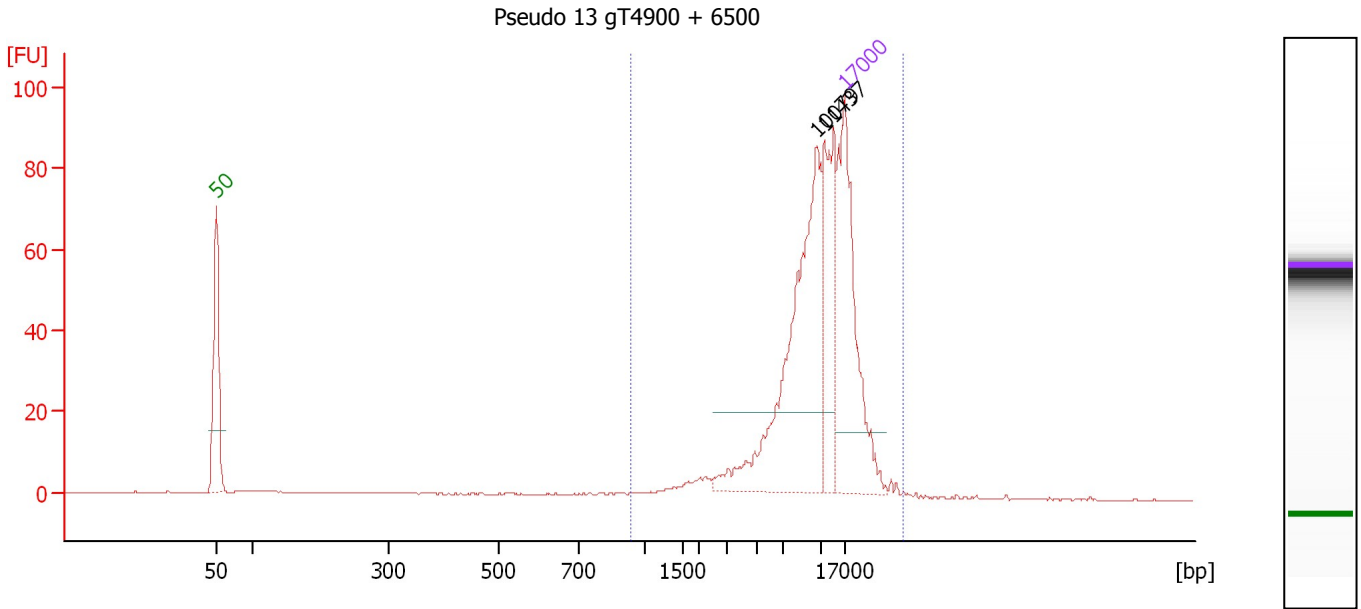
**Peak table for sample 10 :**

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

Assay Class: DNA 12000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Pseudo 13 gT4900 + 6500**

Number of peaks found: 2                      Area 1: 308.6

**Peak table for sample 11 : Pseudo 13 gT4900 + 6500**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,079	6.46	1.0	
3	11,437	2.02	0.3	
4	17,000	4.20	0.4	Upper Marker

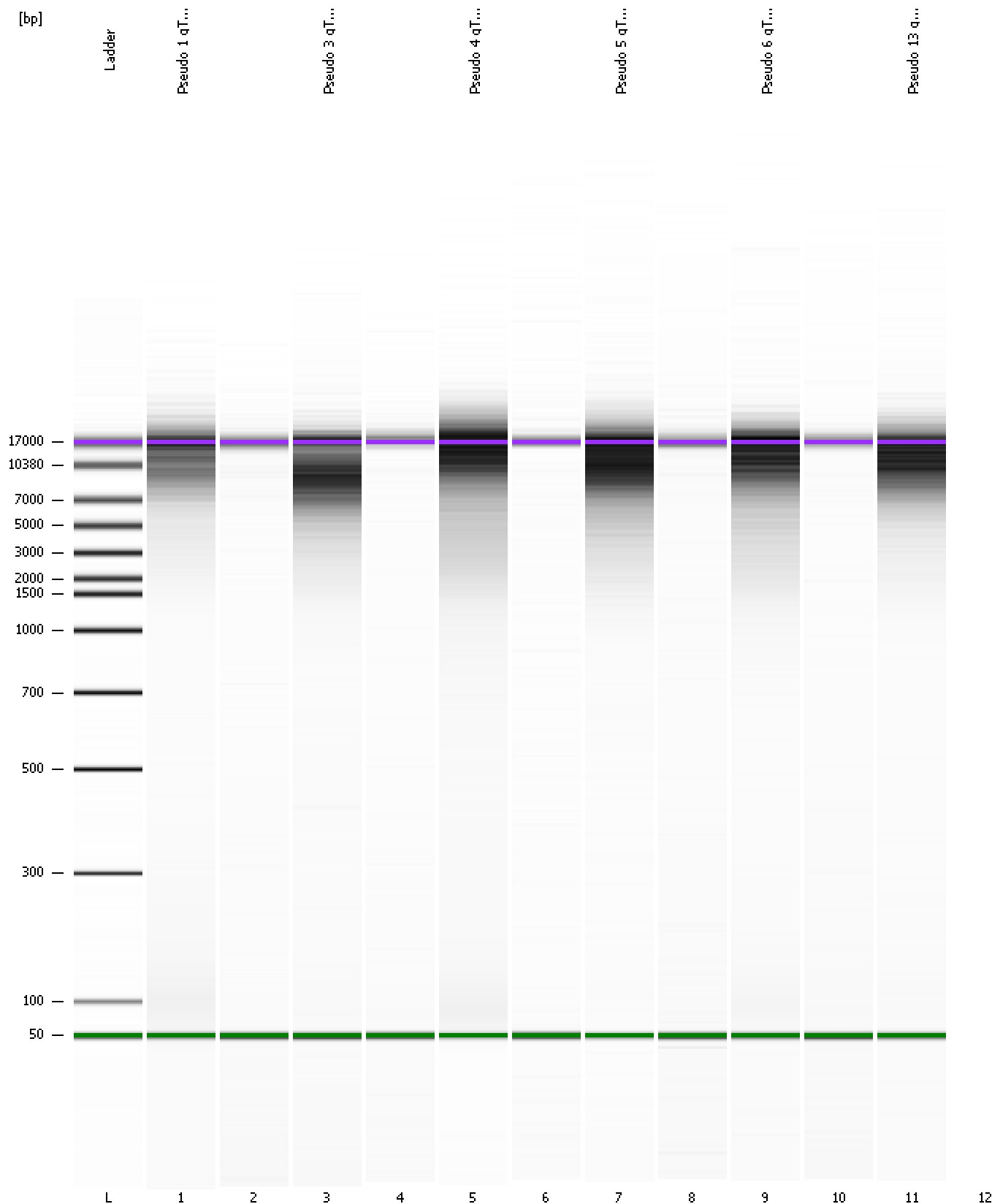
**Region table for sample 11 : Pseudo 13 gT4900 + 6500**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
940	33,022	12,114	9.34	308.6	95	45.8	Blue

Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 AM

**Gel Image**





Assay Class: DNA 12000  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
Modified: 1/6/2015 11:14:15 AM

**Invalid Samples**

Sample 12 has not been run, no results available.

Assay Class: DNA 12000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_002.xad

Created: 1/6/2015 10:29:15 AM  
 Modified: 1/6/2015 11:14:15 AM

**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		1/6/2015 11:01:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-06\2015-01-06_002.xad)		Instrument	Run		1/6/2015 10:29:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/6/2015 10:29:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/6/2015 10:29:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/6/2015 10:29:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/6/2015 10:29:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/6/2015 10:29:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/6/2015 10:29:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1