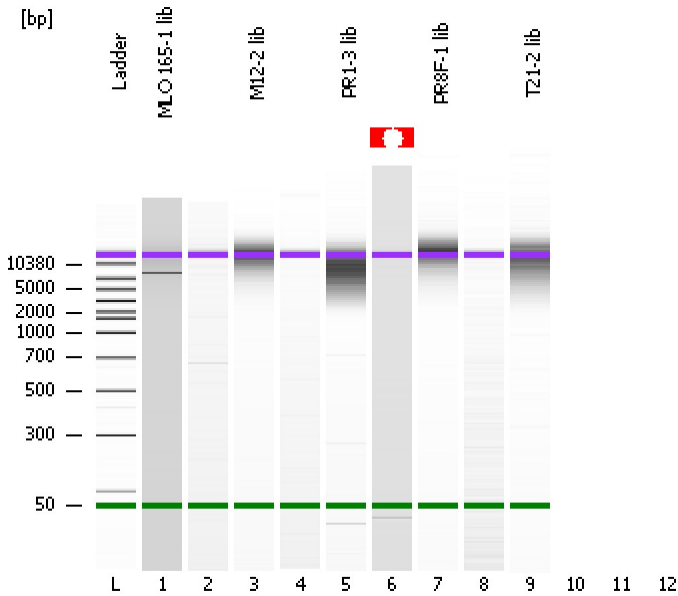


Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
Modified: 1/22/2015 10:30:03 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

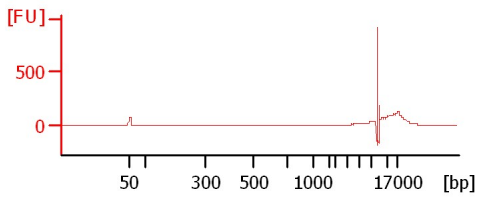
Assay Class: DNA 12000
Version: 2.4
Assay Comments: DNA Analysis 100 -12000 bp

© Copyright 2003-2009 Agilent Technologies, Inc.

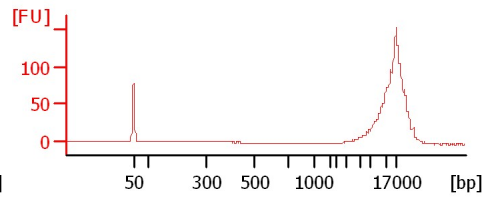
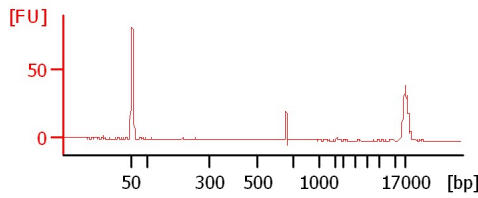
Chip Information:

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

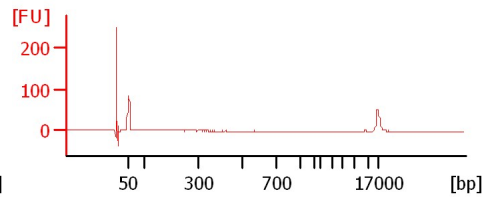
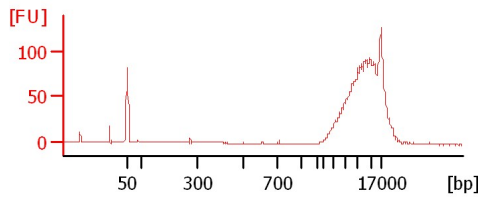
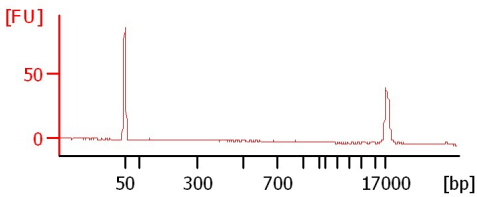
MLO 165-1 lib



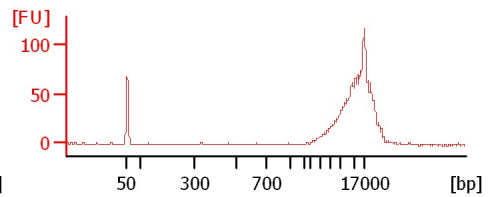
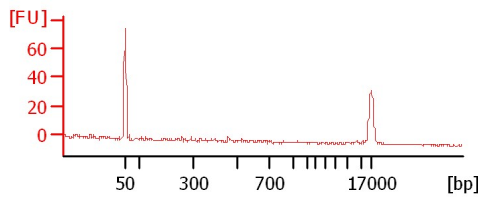
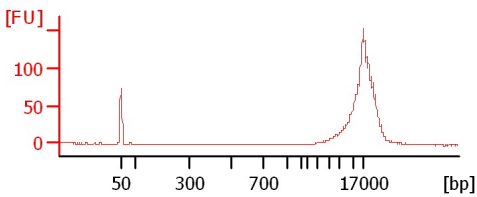
M12-2 lib



PR1-3 lib



PR8F-1 lib



T21-2 lib

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MLO 165-1 lib		<input type="checkbox"/>	✓			
M12-2 lib		<input type="checkbox"/>	✓			
PR1-3 lib		<input type="checkbox"/>	✓			
PR8F-1 lib		<input type="checkbox"/>	⚠			
T21-2 lib		<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\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
Modified: 1/22/2015 10:30:03 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

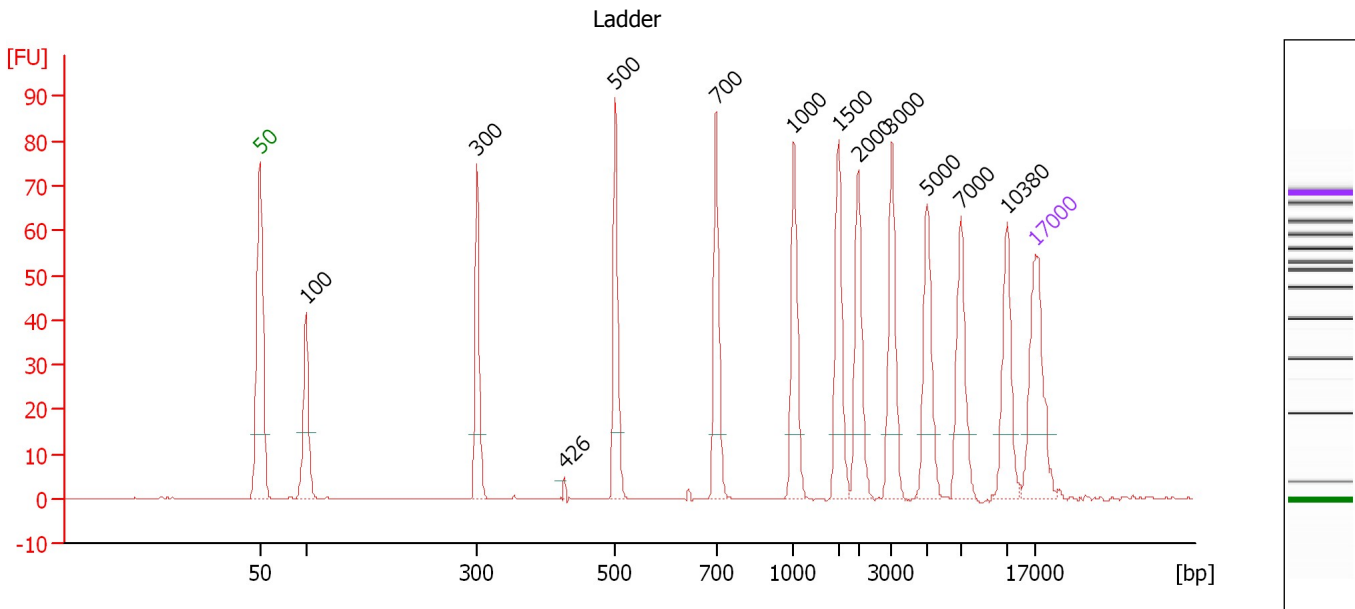
Ladder

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\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary



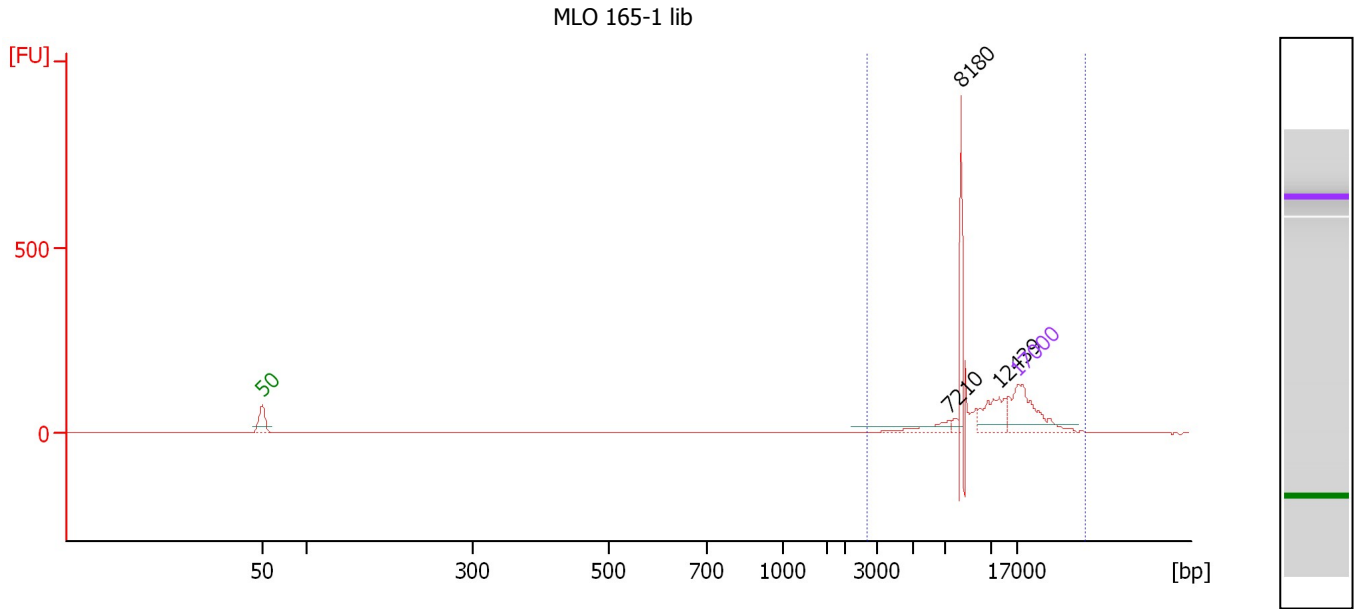
Peak table for Ladder

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	426	0.00	0.0	
5	500	4.00	12.1	Ladder Peak
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\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MLO 165-1 lib

Number of peaks found: 3 Area: 497.6

Peak table for sample 1 : MLO 165-1 lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	7,210	1.31	0.3	
3	8,180	2.99	0.6	
4	12,439	2.73	0.3	
5	17,000	4.20	0.4	Upper Marker

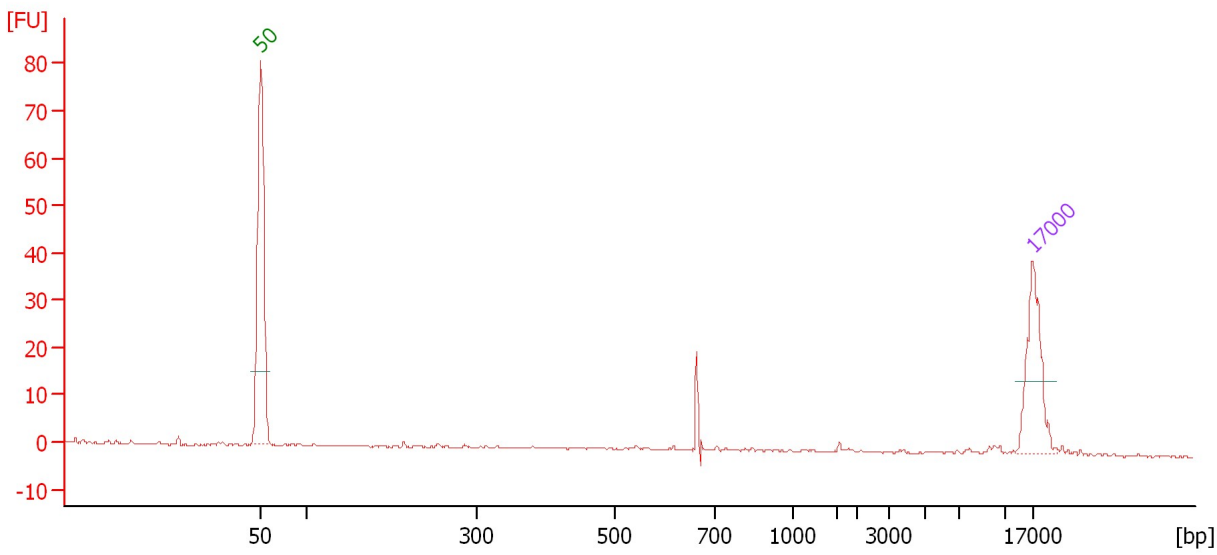
Region table for sample 1 : MLO 165-1 lib

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
2,669	33,115	12,831	7.83	497.6	98	46.1	Blue

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 :

Number of peaks found: 0

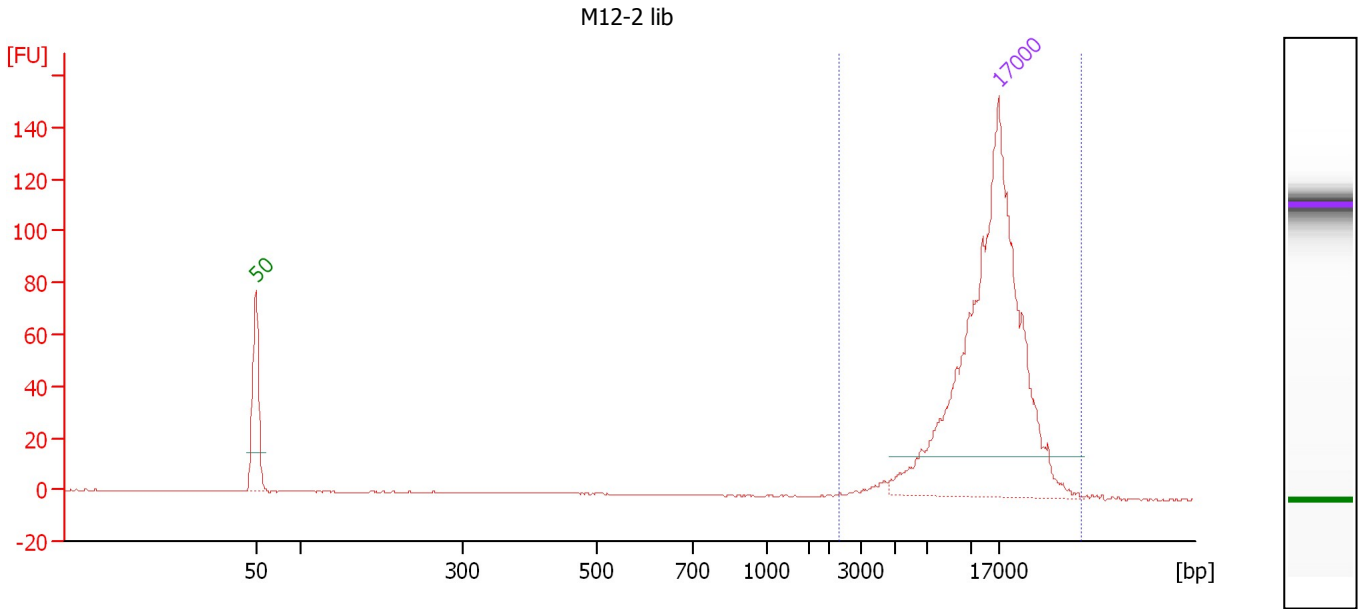
Peak table for sample 2 :

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\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : M12-2 lib

Number of peaks found: 0 Area 1: 9.6

Peak table for sample 3 : M12-2 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

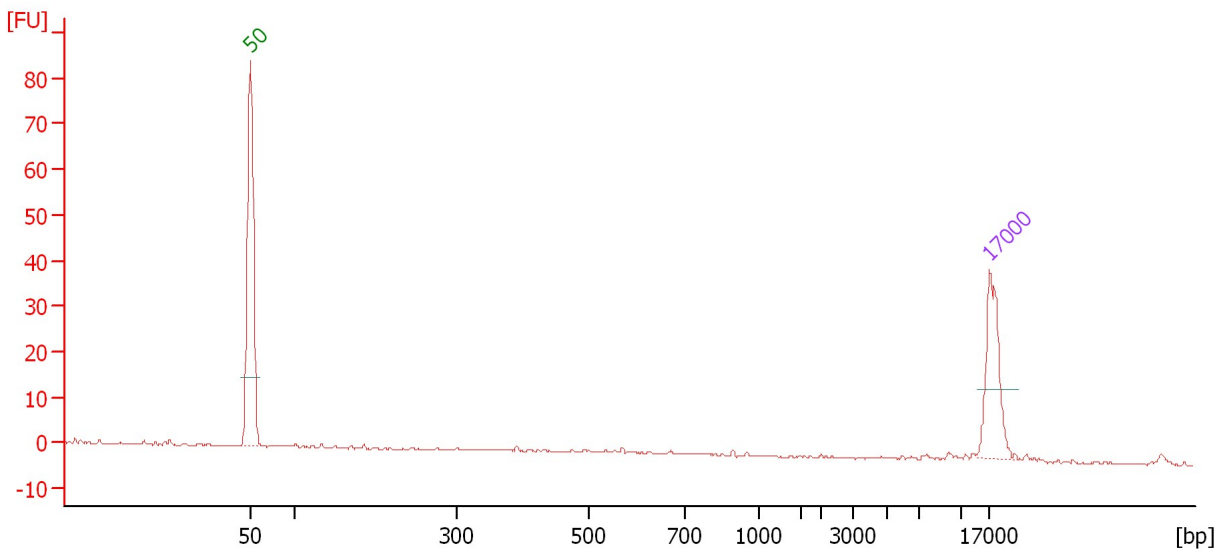
Region table for sample 3 : M12-2 lib

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
2,331	37,229	15,576	0.07	9.6	58	39.5	Blue

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 :

Number of peaks found: 0

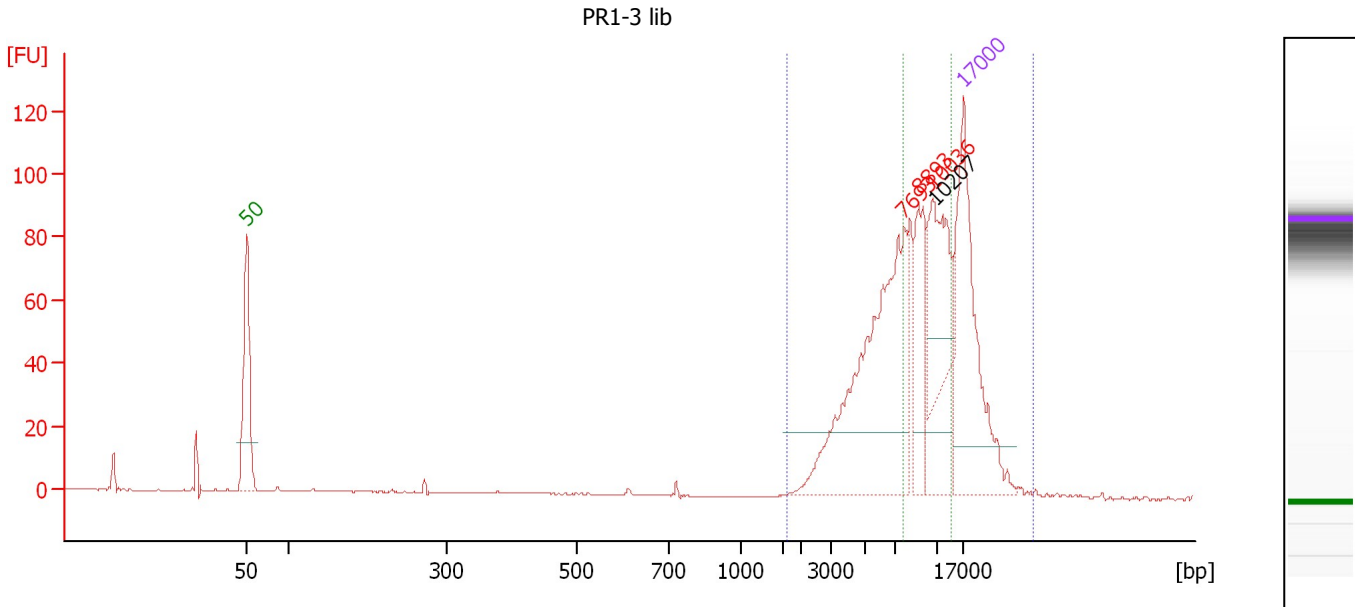
Peak table for sample 4 :

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\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : PR1-3 lib

Number of peaks found: 1 Area 2: 294.0
 Area 1: 566.4

Peak table for sample 5 : PR1-3 lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	7,693	6.83	1.3	excluded peak
3	8,893	1.86	0.3	excluded peak
4	10,036	3.62	0.5	excluded peak
5	10,207	2.27	0.3	
6	17,000	4.20	0.4	Upper Marker

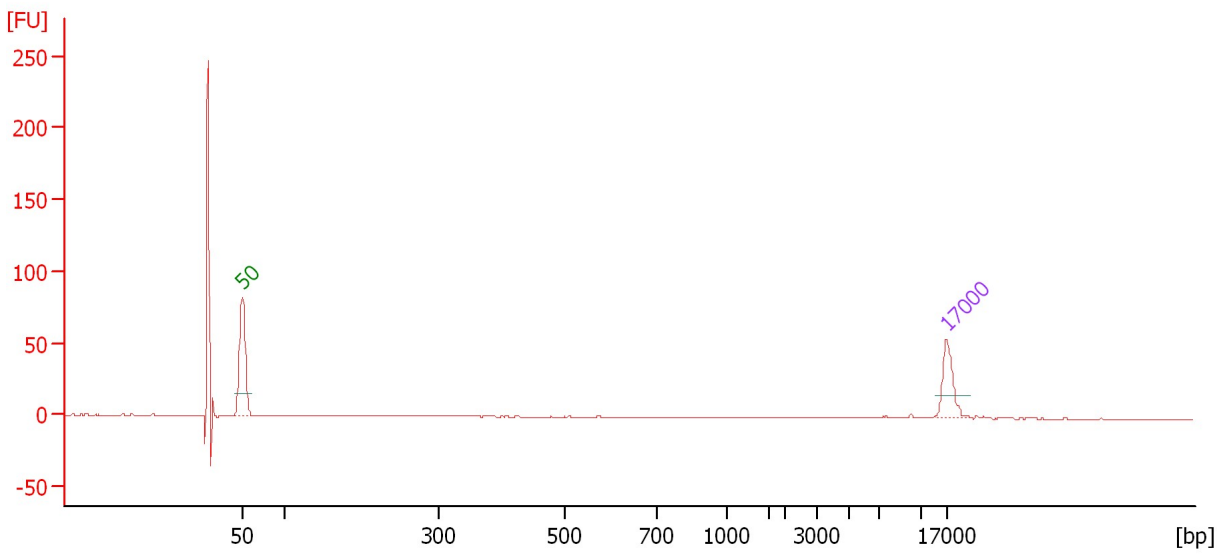
Region table for sample 5 : PR1-3 lib

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
1,609	34,287	10,653	12.68	566.4	98	52.2	Blue
7,574	13,849	9,765	6.51	294.0	51	16.3	Green

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 :

Number of peaks found: 0

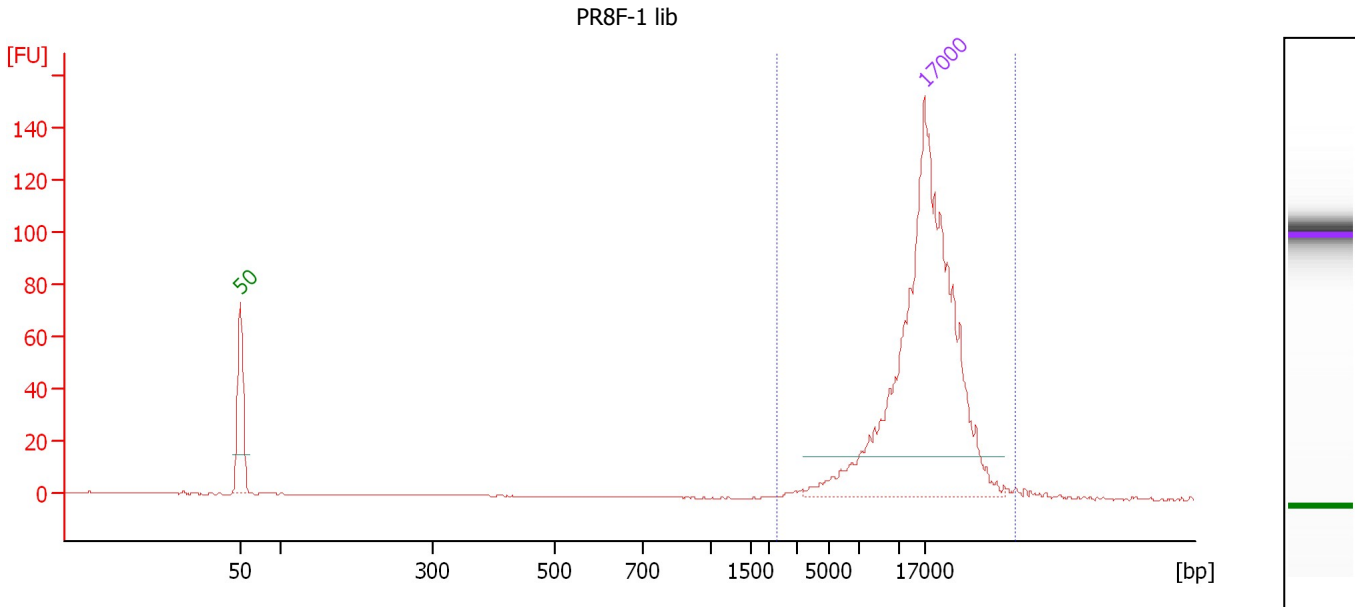
Peak table for sample 6 :

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\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : PR8F-1 lib

Number of peaks found: 0 Area 1: 3.7

Peak table for sample 7 : PR8F-1 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

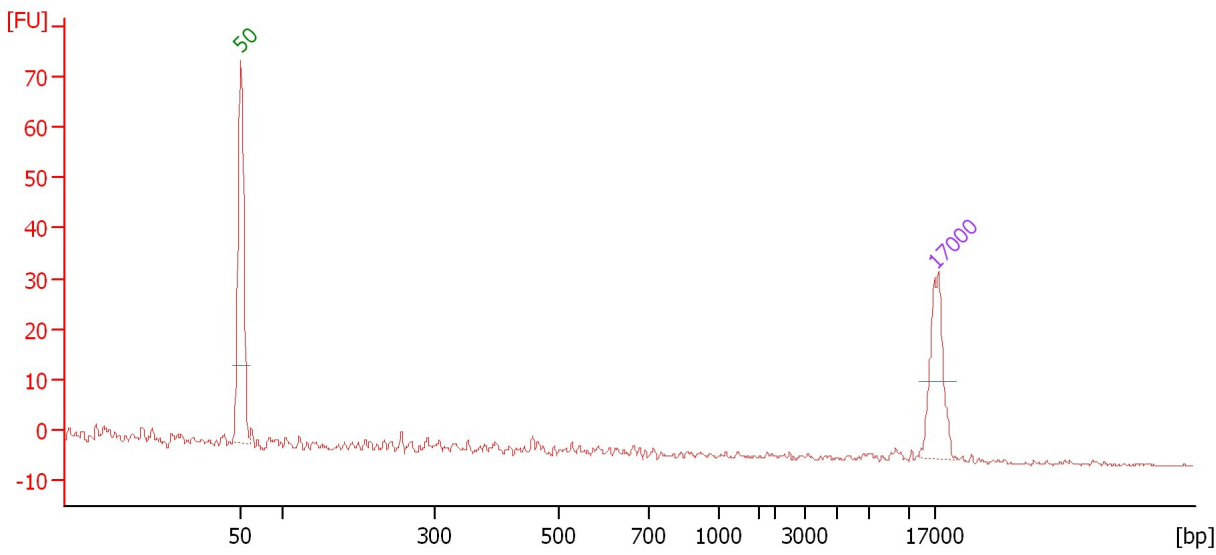
Region table for sample 7 : PR8F-1 lib

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
2,327	40,620	17,530	0.03	3.7	42	39.1	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 :

Number of peaks found: 0

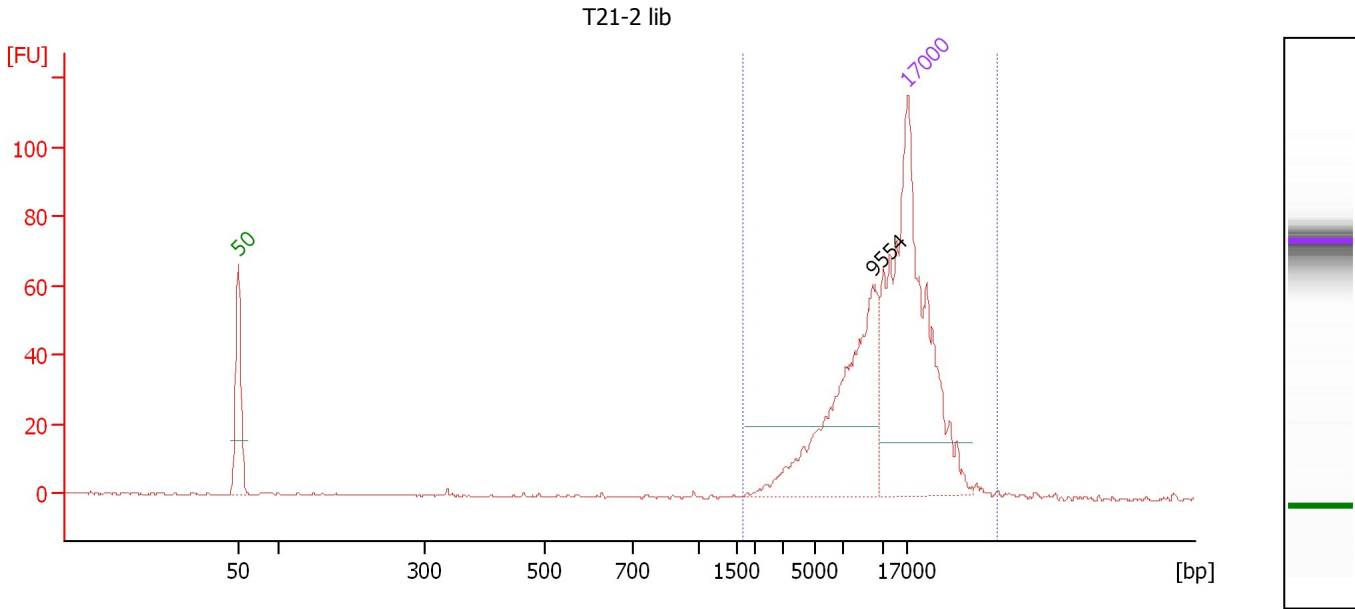
Peak table for sample 8 :

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\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : T21-2 lib

Number of peaks found: 1 Area 1: 205.2

Peak table for sample 9 : T21-2 lib

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,554	2.81	0.4	
3	17,000	4.20	0.4	Upper Marker

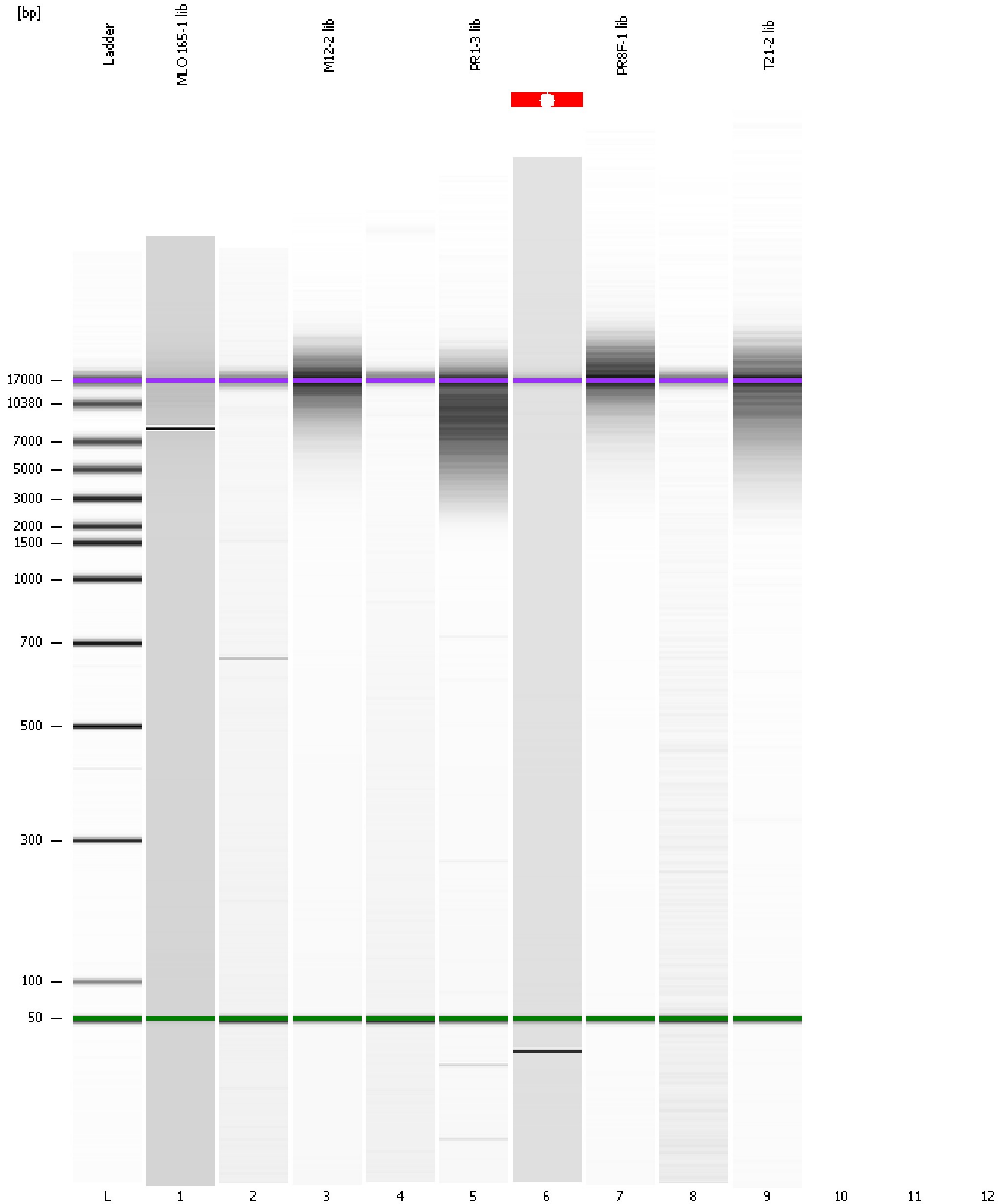
Region table for sample 9 : T21-2 lib

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
1,661	40,827	14,059	2.90	205.2	96	50.6	Blue

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
Modified: 1/22/2015 10:30:03 AM

Gel Image



Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
Modified: 1/22/2015 10:30:03 AM

Invalid Samples

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\2015-01-22\2015-01-22_001.xad

Created: 1/22/2015 9:49:27 AM
 Modified: 1/22/2015 10:30:03 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		1/22/2015 10:18:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 6	1/22/2015 10:10:41 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-22\2015-01-22_001.xad)		Instrument	Run		1/22/2015 9:49:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/22/2015 9:49:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/22/2015 9:49:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/22/2015 9:49:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/22/2015 9:49:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/22/2015 9:49:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/22/2015 9:49:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1