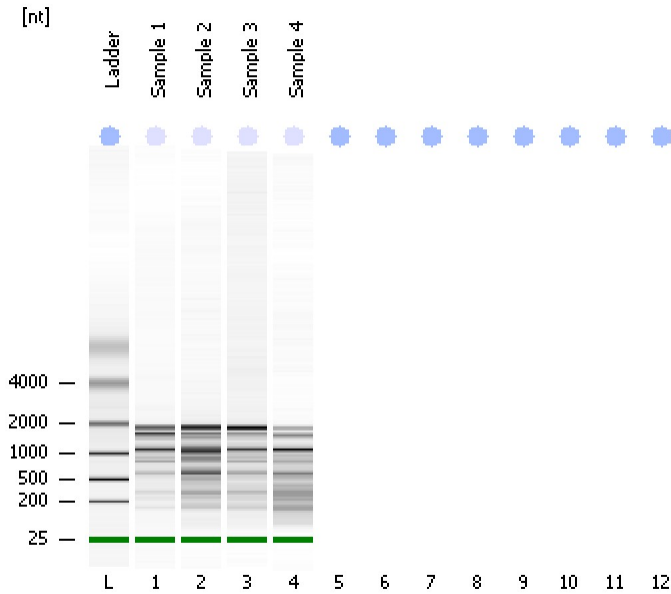


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
Modified: 10/17/2016 10:53:40 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

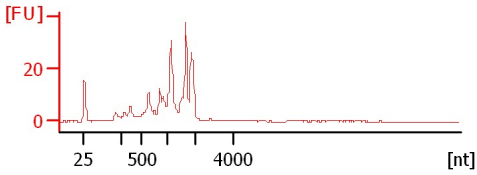
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy  
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

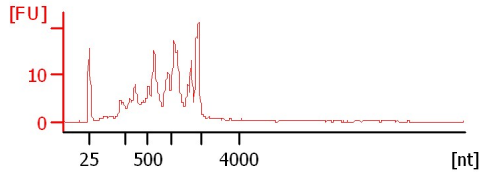
Chip Information:

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

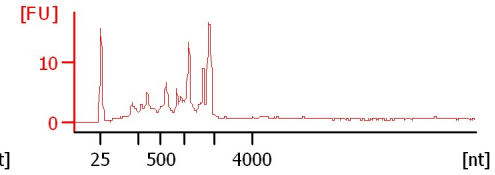
**Sample 1**  
HiSeq 661 Total RNA  
RIN: 5.30



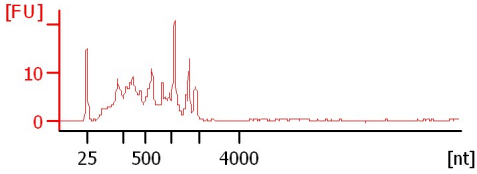
**Sample 2**  
HiSeq 661 Total RNA  
RIN: 5



**Sample 3**  
HiSeq 661 Total RNA  
RIN: 5.70



**Sample 4**  
HiSeq 661 Total RNA  
RIN: 3.80



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
 Modified: 10/17/2016 10:53:40 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1	HiSeq 661 Total RNA	✓	RIN: 5.30	
Sample 2	HiSeq 661 Total RNA	✓	RIN: 5	
Sample 3	HiSeq 661 Total RNA	✓	RIN: 5.70	
Sample 4	HiSeq 661 Total RNA	✓	RIN: 3.80	
Ladder		✓	All Other Samples	

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
Modified: 10/17/2016 10:53:40 AM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
Ladder Concentration [ng/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

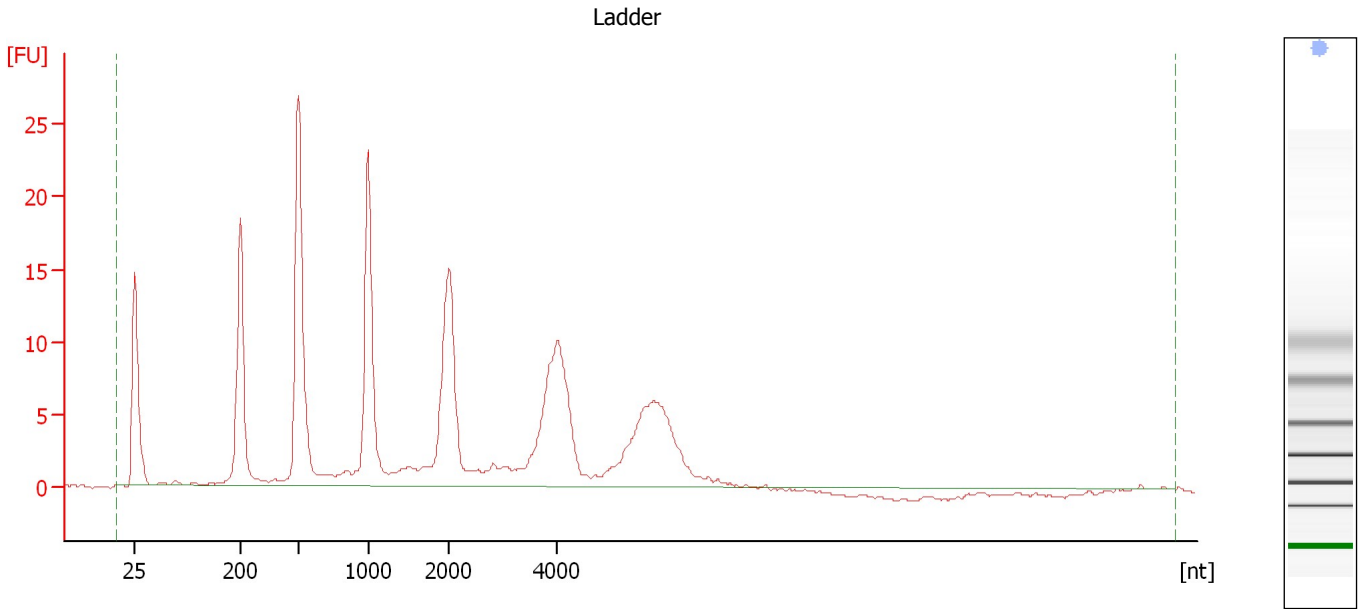
### Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
Modified: 10/17/2016 10:53:40 AM

**Electropherogram Summary**



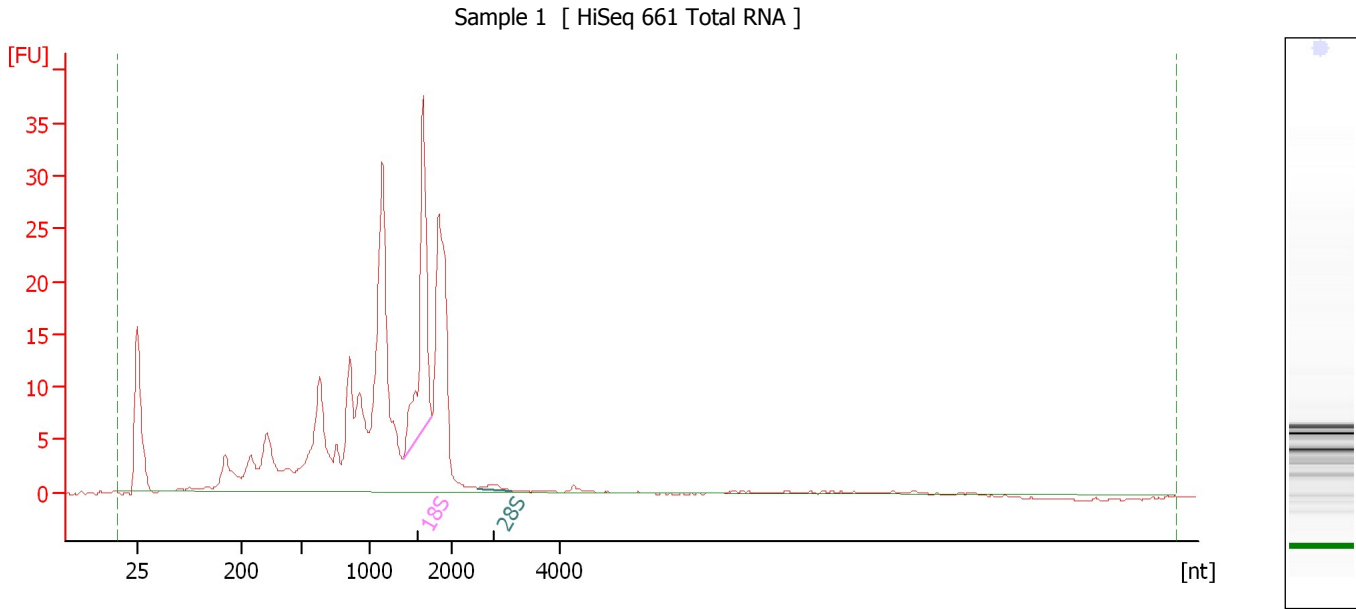
**Overall Results for Ladder**

RNA Area:	218.7	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
 Modified: 10/17/2016 10:53:40 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

RNA Area:	271.4	RNA Integrity Number (RIN):	5.3 (B.02.08)
RNA Concentration:	186 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.30

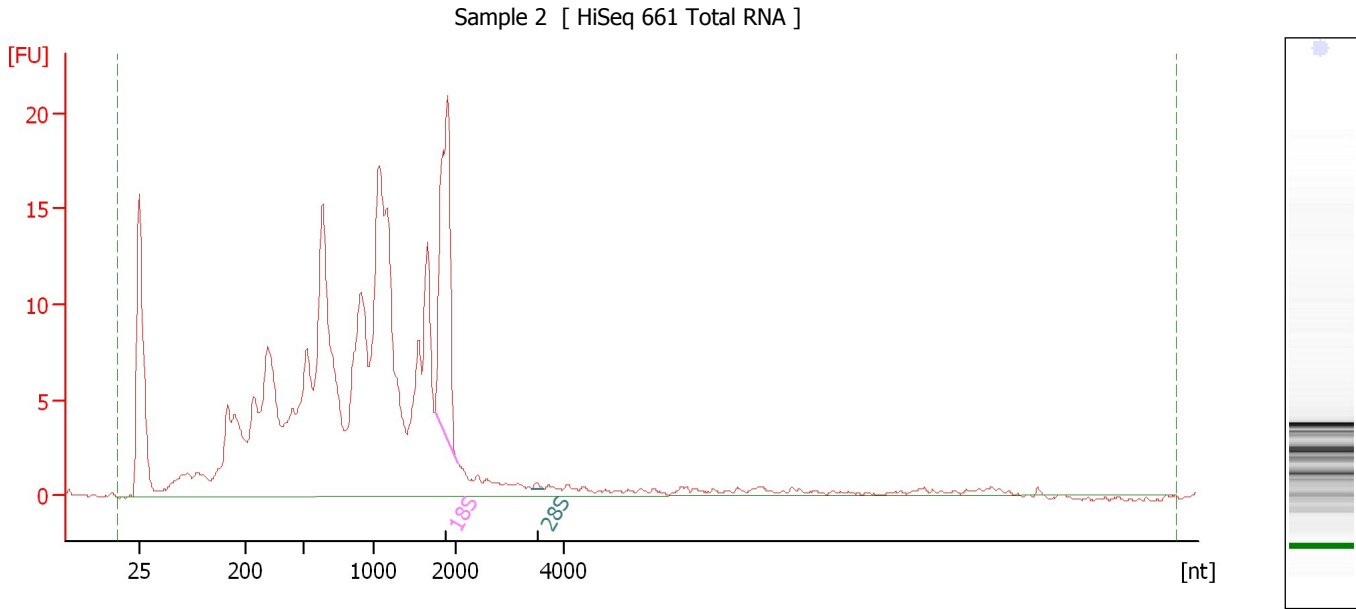
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,399	1,754	33.6	12.4
28S	2,459	3,111	1.1	0.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
Modified: 10/17/2016 10:53:40 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area:	296.4	RNA Integrity Number (RIN):	5 (B.02.08)
RNA Concentration:	203 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:5

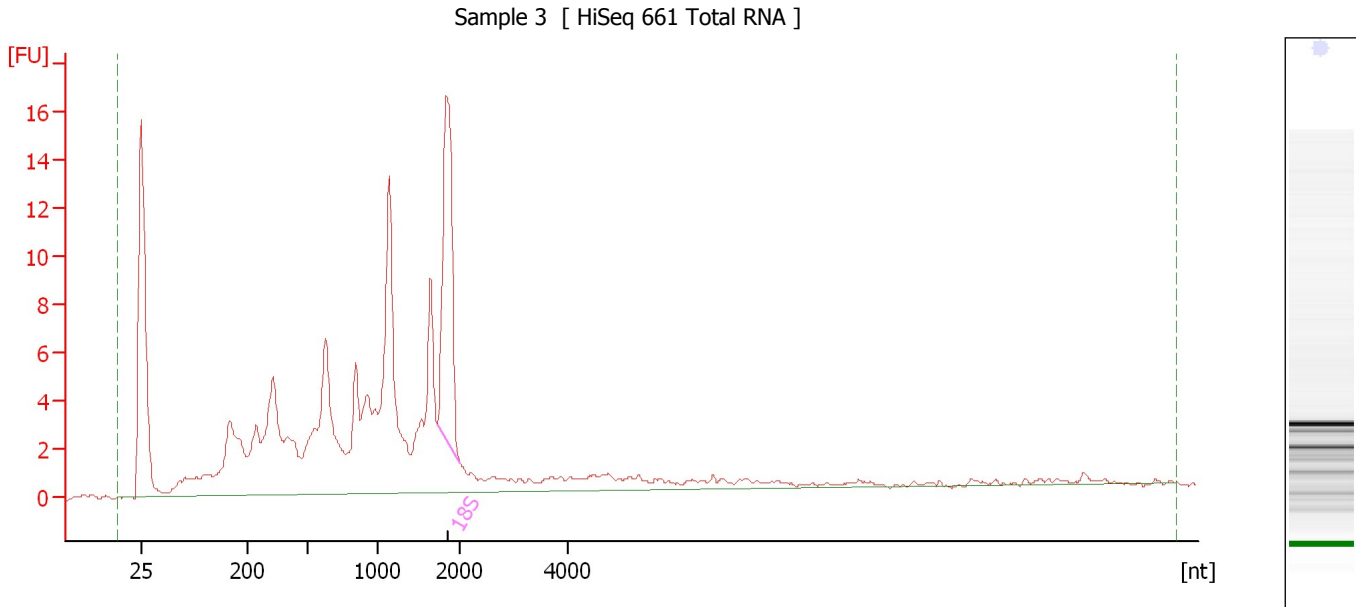
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,749	2,036	26.3	8.9
28S	3,412	3,628	0.2	0.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
Modified: 10/17/2016 10:53:40 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area:	165.3	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	113 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.70

**Fragment table for sample 3 : Sample 3**

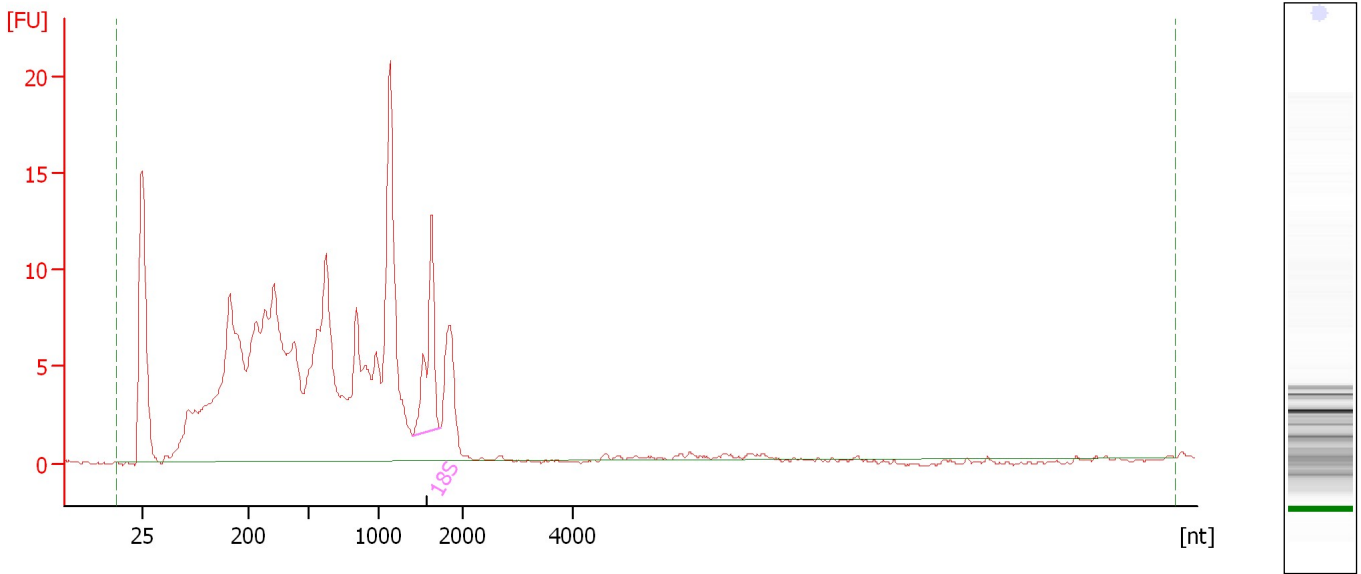
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	2,007	21.4	13.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
Modified: 10/17/2016 10:53:40 AM

**Electropherogram Summary Continued ...**

Sample 4 [ HiSeq 661 Total RNA ]



**Overall Results for sample 4 : Sample 4**

RNA Area:	244.3	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	167 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.80

**Fragment table for sample 4 : Sample 4**

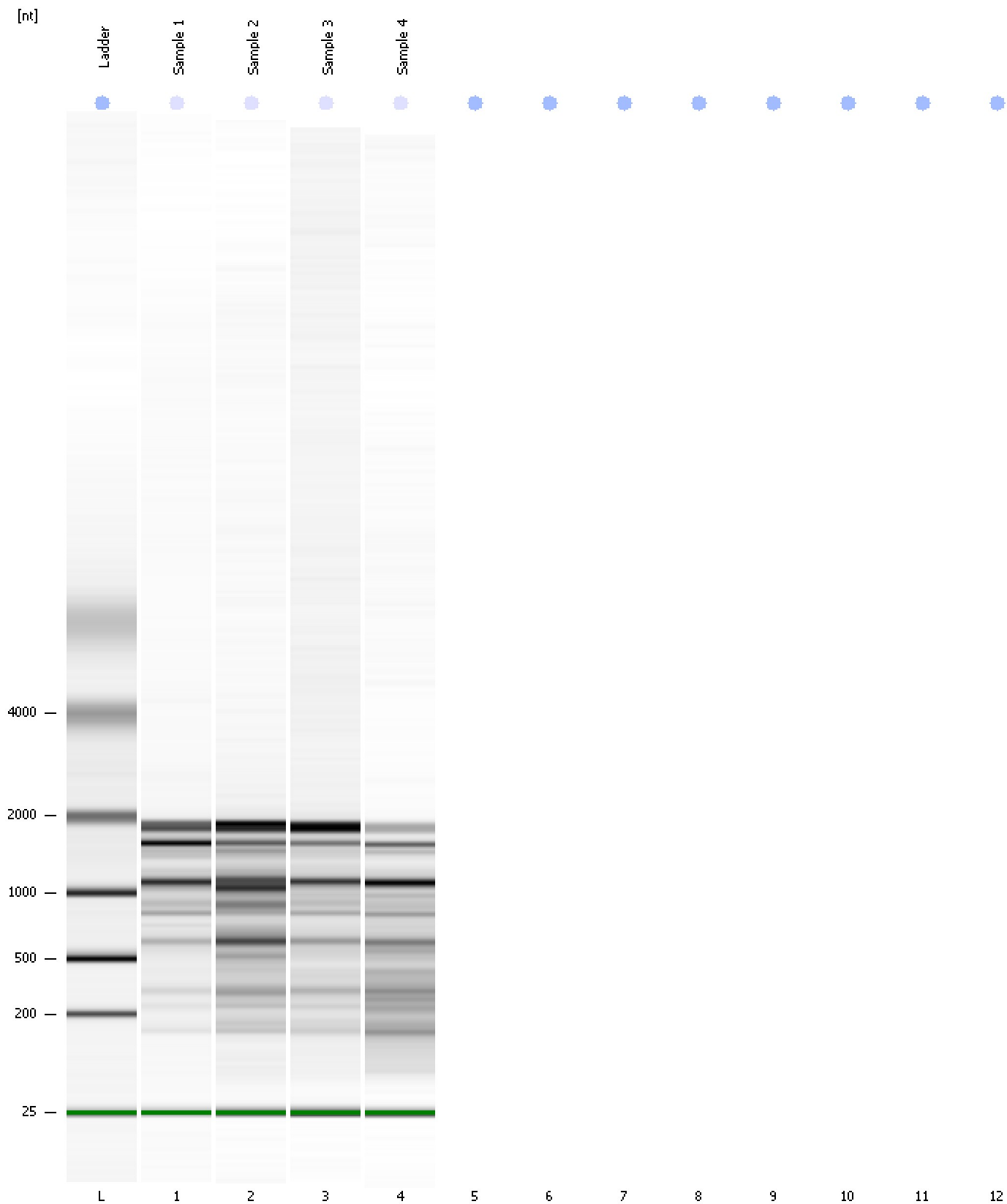
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,404	1,740	13.0	5.3



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
Modified: 10/17/2016 10:53:40 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
Modified: 10/17/2016 10:53:40 AM

**Invalid Samples**

- Sample 5 has not been run, no results available.
- Sample 6 has not been run, no results available.
- 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: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-17\2016-10-17\_001.xad

Created: 10/17/2016 10:33:54 AM  
 Modified: 10/17/2016 10:53:40 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		10/17/2016 10:46:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-10-17\2016-10-17_001.xad)		Instrument	Run		10/17/2016 10:34:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/17/2016 10:34:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/17/2016 10:34:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/17/2016 10:34:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/17/2016 10:34:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/17/2016 10:34:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/17/2016 10:34:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1