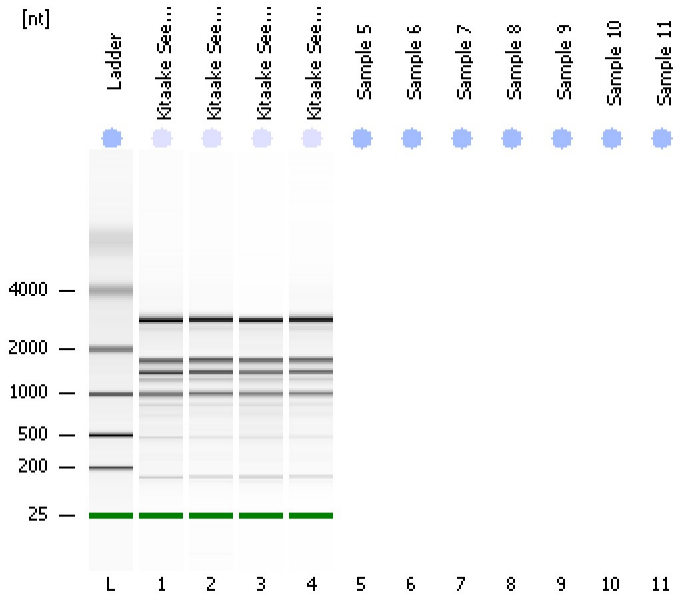


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
Modified: 5/6/2013 1:38:25 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

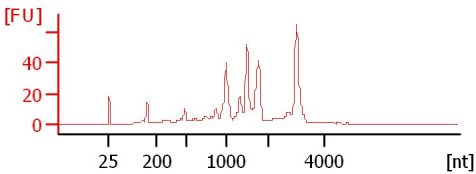
Assay Information:

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

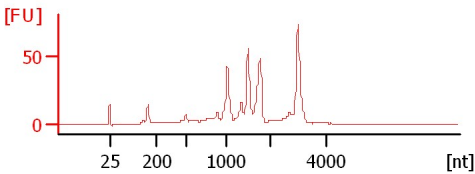
Chip Information:

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

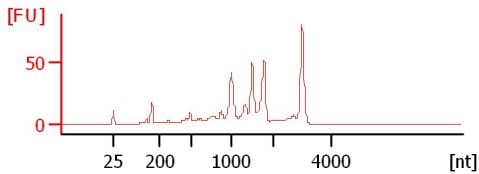
**Kitaake Seedling 1**  
RIN: 7



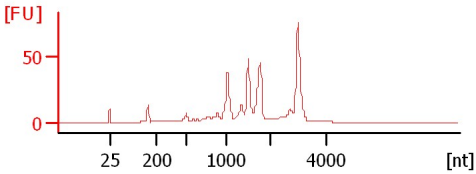
**Kitaake Seedling 2**  
RIN: 7.20



**Kitaake Seedling 3**  
RIN: 6.90



**Kitaake Seedling 4**  
RIN: 7.40



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
 Modified: 5/6/2013 1:38:25 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Kitaake Seedling 1		✓	RIN:7	
Kitaake Seedling 2		✓	RIN: 7.20	
Kitaake Seedling 3		✓	RIN: 6.90	
Kitaake Seedling 4		✓	RIN: 7.40	
Sample 5				
Sample 6				
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
Modified: 5/6/2013 1:38:25 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

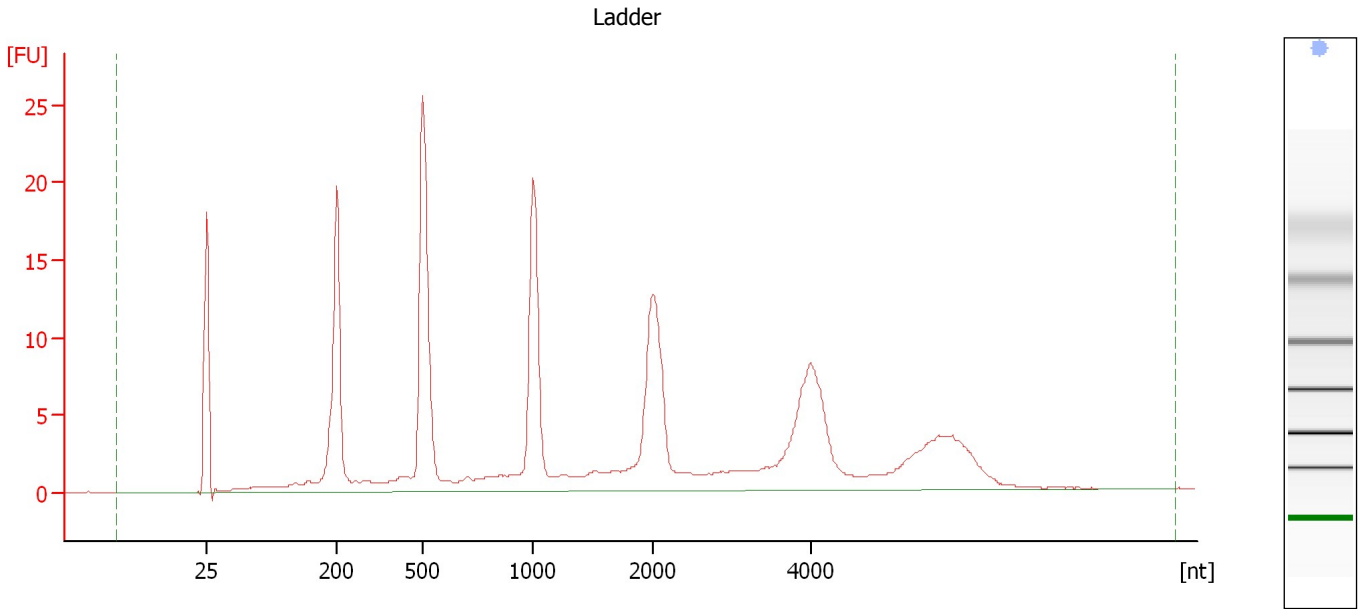
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
Modified: 5/6/2013 1:38:25 PM

**Electropherogram Summary**



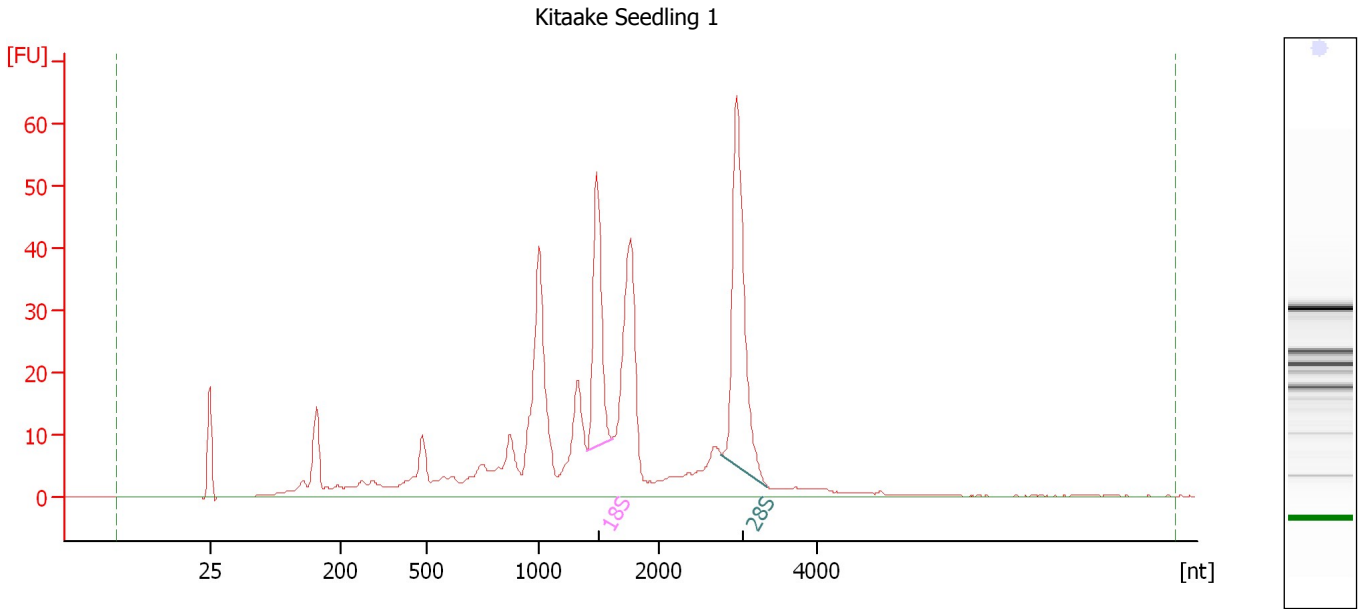
**Overall Results for Ladder**

RNA Area:	207.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
 Modified: 5/6/2013 1:38:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Kitaake Seedling 1**

RNA Area:	487.7	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	2,355 µg/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]:	1.7	Result Flagging Label:	RIN:7

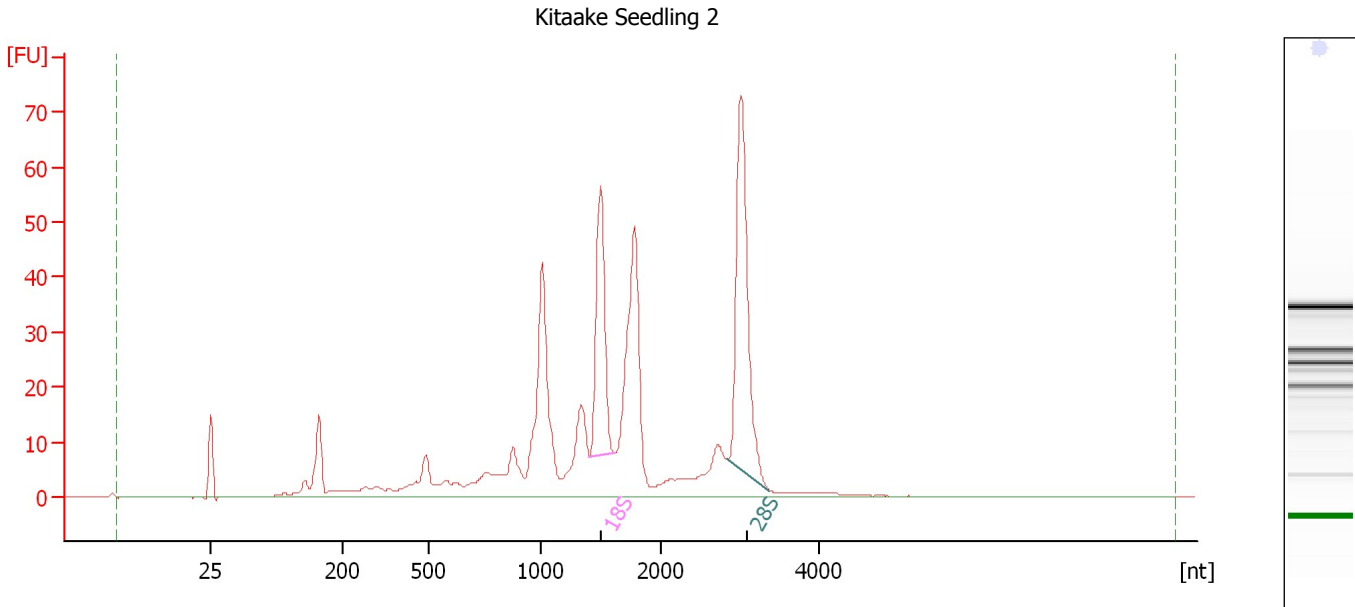
**Fragment table for sample 1 : Kitaake Seedling 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,399	1,612	44.6	9.2
28S	2,788	3,370	75.9	15.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
 Modified: 5/6/2013 1:38:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Kitaake Seedling 2**

RNA Area:	485.2	RNA Integrity Number (RIN):	7.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,343 pg/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]:	1.6	Result Flagging Label:	RIN: 7.20

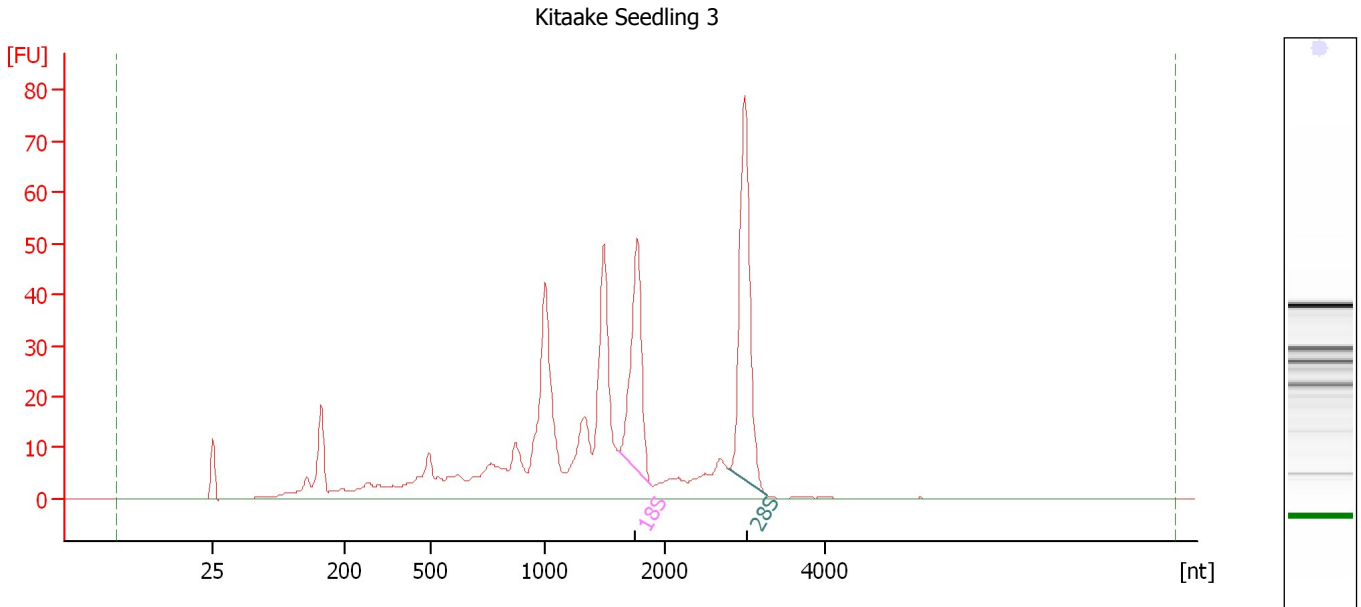
**Fragment table for sample 2 : Kitaake Seedling 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,402	1,614	51.6	10.6
28S	2,829	3,369	83.4	17.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
Modified: 5/6/2013 1:38:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Kitaake Seedling 3**

RNA Area: 533.1                      RNA Integrity Number (RIN): 6.9 (B.02.08, Anomaly Threshold(s) manually adapted)  
RNA Concentration: 2,574 pg/μl  
rRNA Ratio [28s / 18s]: 1.4  
Result Flagging Color:   
Result Flagging Label: RIN: 6.90

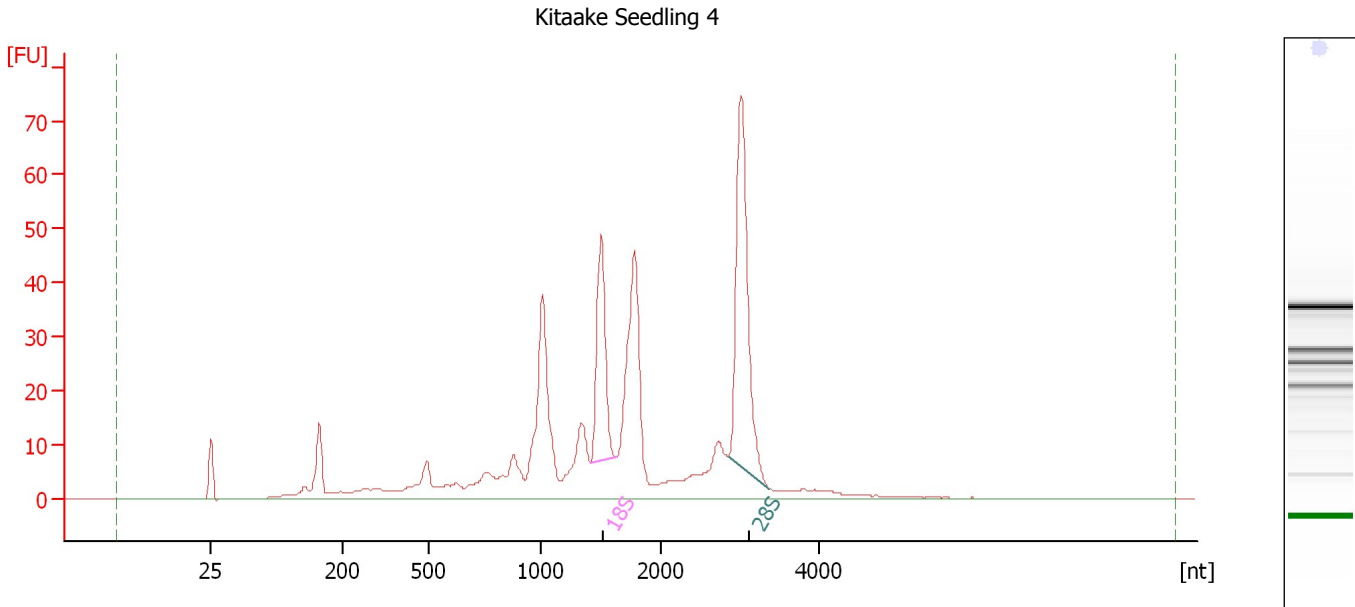
**Fragment table for sample 3 : Kitaake Seedling 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,882	60.0	11.3
28S	2,802	3,272	84.2	15.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
 Modified: 5/6/2013 1:38:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Kitaake Seedling 4**

RNA Area:	481.7	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,326 µg/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]:	1.9	Result Flagging Label:	RIN: 7.40

**Fragment table for sample 4 : Kitaake Seedling 4**

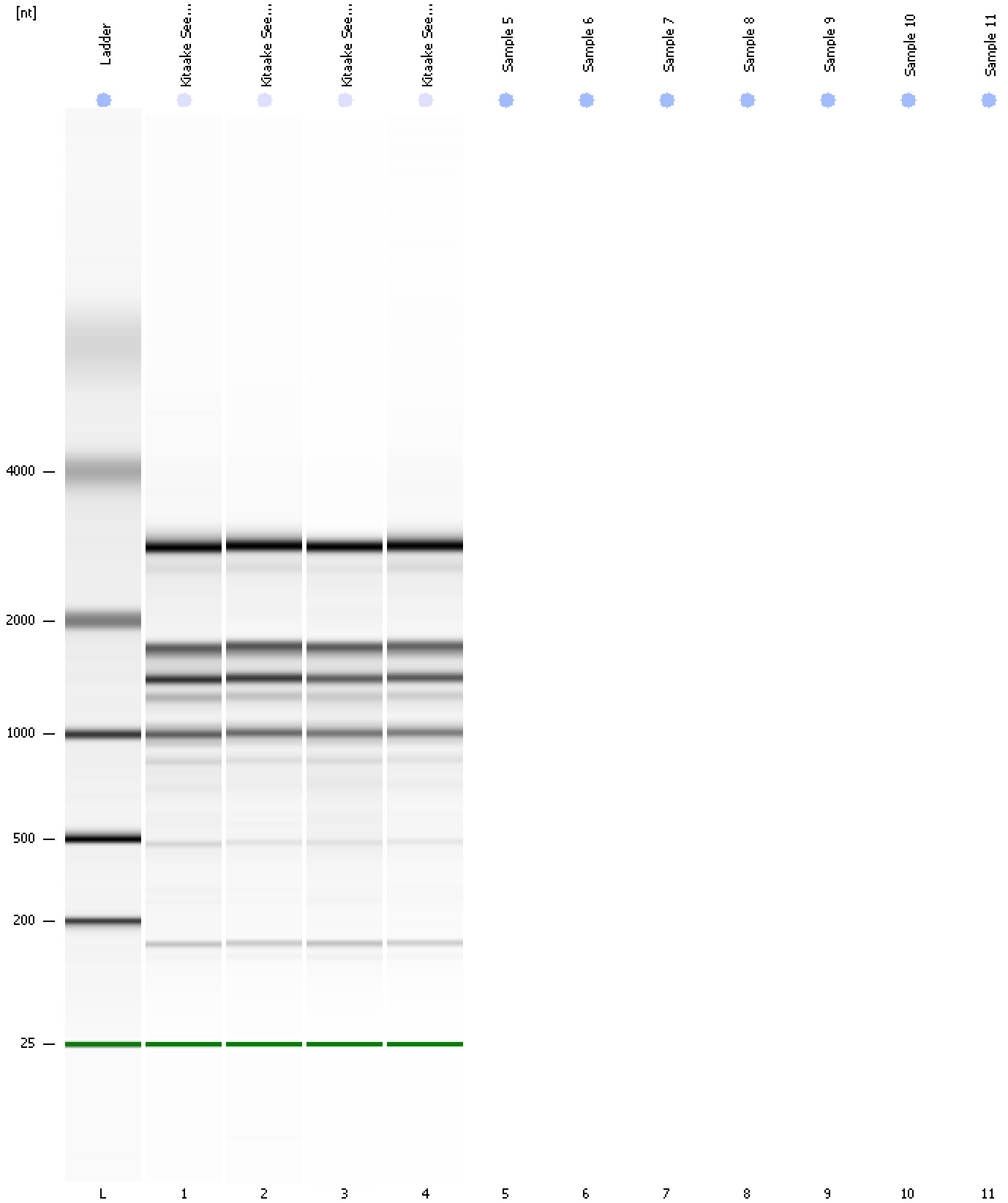
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,410	1,623	44.5	9.2
28S	2,842	3,369	85.9	17.8



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
Modified: 5/6/2013 1:38:25 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad

Created: 5/6/2013 1:22:06 PM  
Modified: 5/6/2013 1:38:25 PM

**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.

Assay Class: Eukaryote Total RNA Pico Created: 5/6/2013 1:22:06 PM  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-06\2013-05-06\_002.xad Modified: 5/6/2013 1:38:25 PM

**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		5/6/2013 1:35:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-06\2013-05-06_002.xad)		Instrument	Run		5/6/2013 1:22:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/6/2013 1:22:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/6/2013 1:22:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/6/2013 1:22:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/6/2013 1:22:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/6/2013 1:22:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/6/2013 1:22:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1