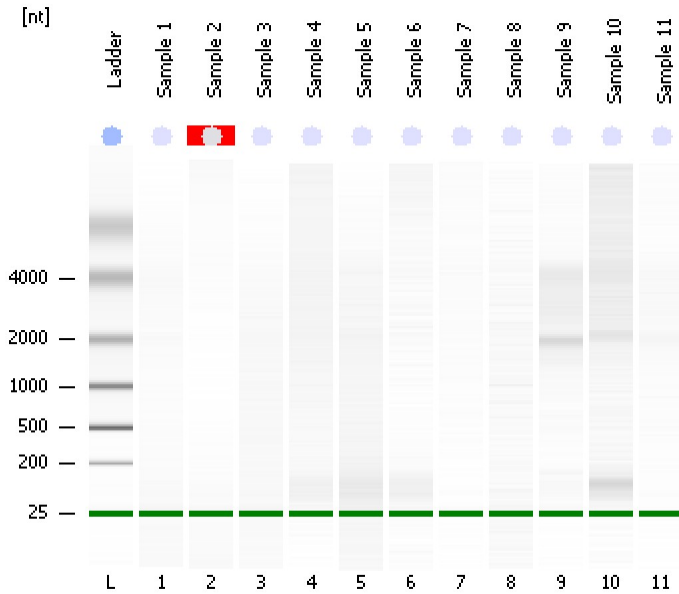


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

Electrophoresis File Run Summary



Instrument Information:

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

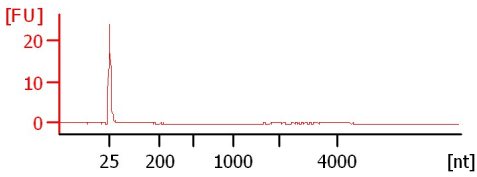
Assay Information:

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.

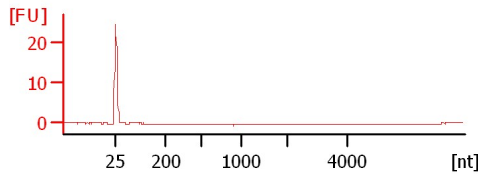
Chip Information:

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

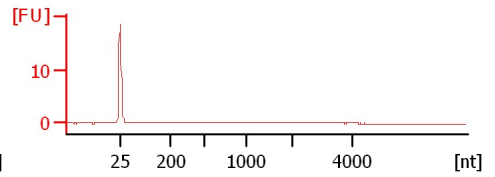
Sample 1  
RIN:1



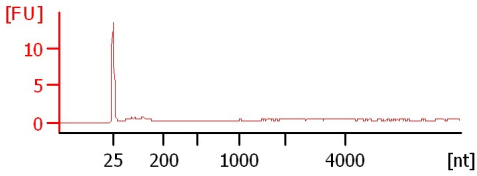
Sample 2  
RIN N/A



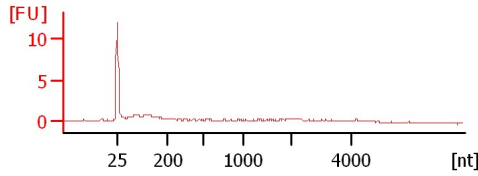
Sample 3  
RIN:1



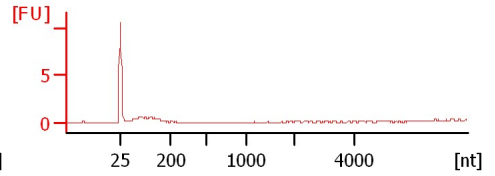
Sample 4  
RIN:1



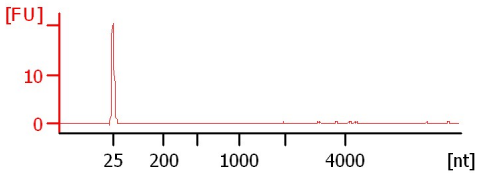
Sample 5  
RIN:1



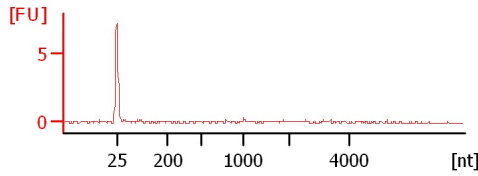
Sample 6  
RIN: 1.10



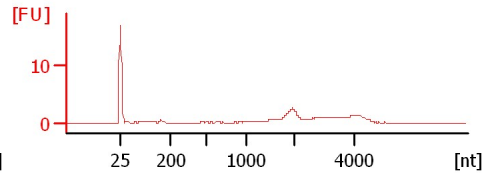
Sample 7  
RIN:1



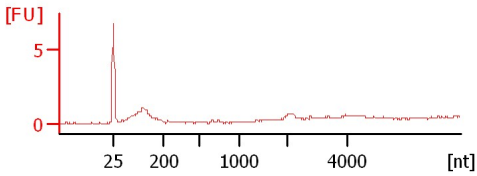
Sample 8  
RIN:1



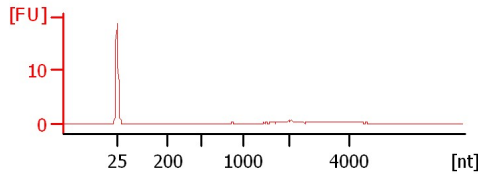
Sample 9  
RIN: 5.80



Sample 10  
RIN: 1.50



Sample 11  
RIN:1



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
 Modified: 10/20/2016 2:20:46 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN:1	
Sample 2		✓	RIN N/A	
Sample 3		✓	RIN:1	
Sample 4		✓	RIN:1	
Sample 5		✓	RIN:1	
Sample 6		✓	RIN: 1.10	
Sample 7		✓	RIN:1	
Sample 8		✓	RIN:1	
Sample 9		✓	RIN: 5.80	
Sample 10		✓	RIN: 1.50	
Sample 11		✓	RIN:1	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 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

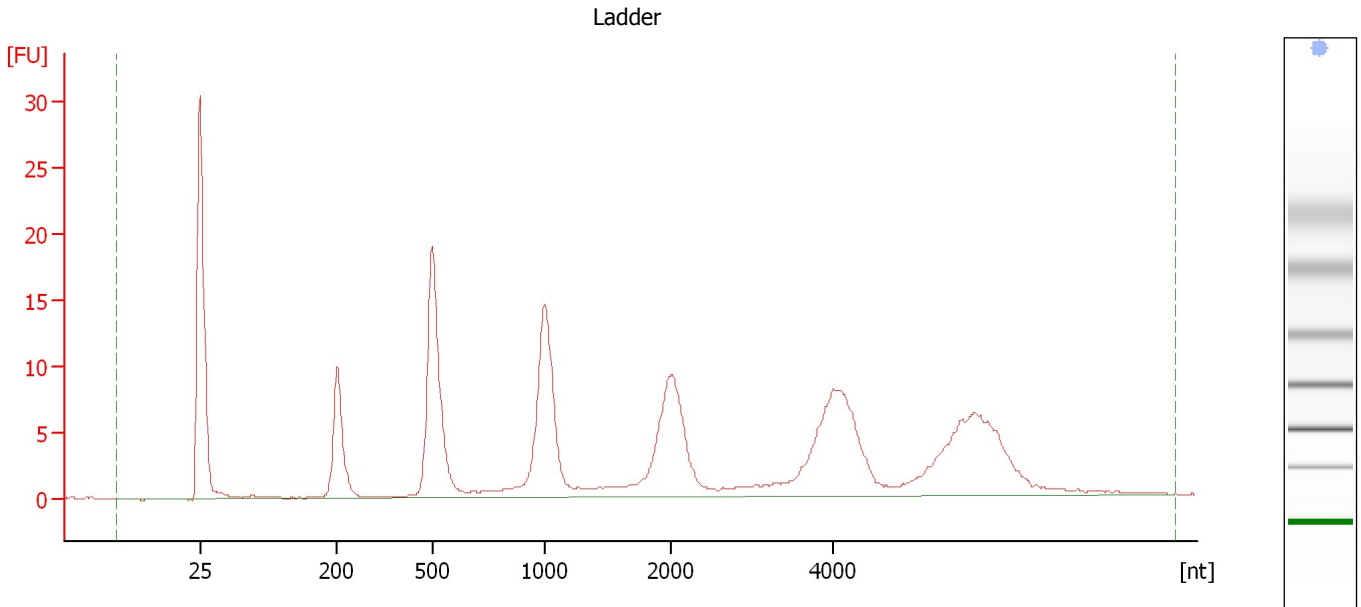
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary**



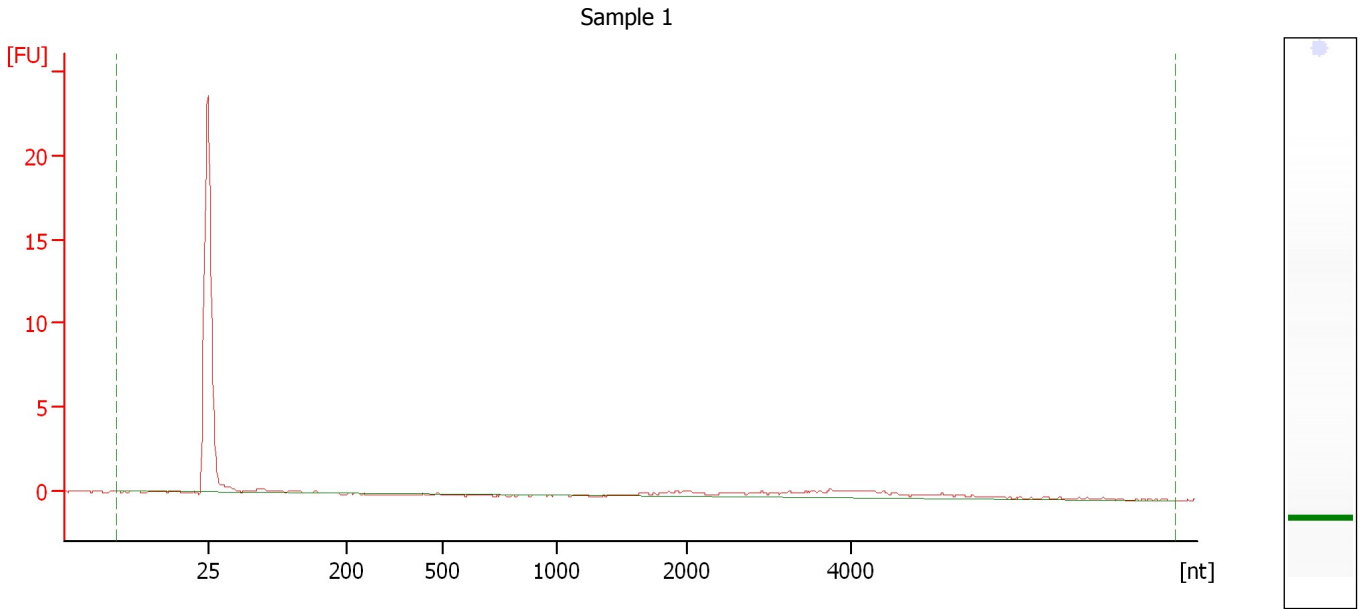
**Overall Results for Ladder**

RNA Area:	205.1	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:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**



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

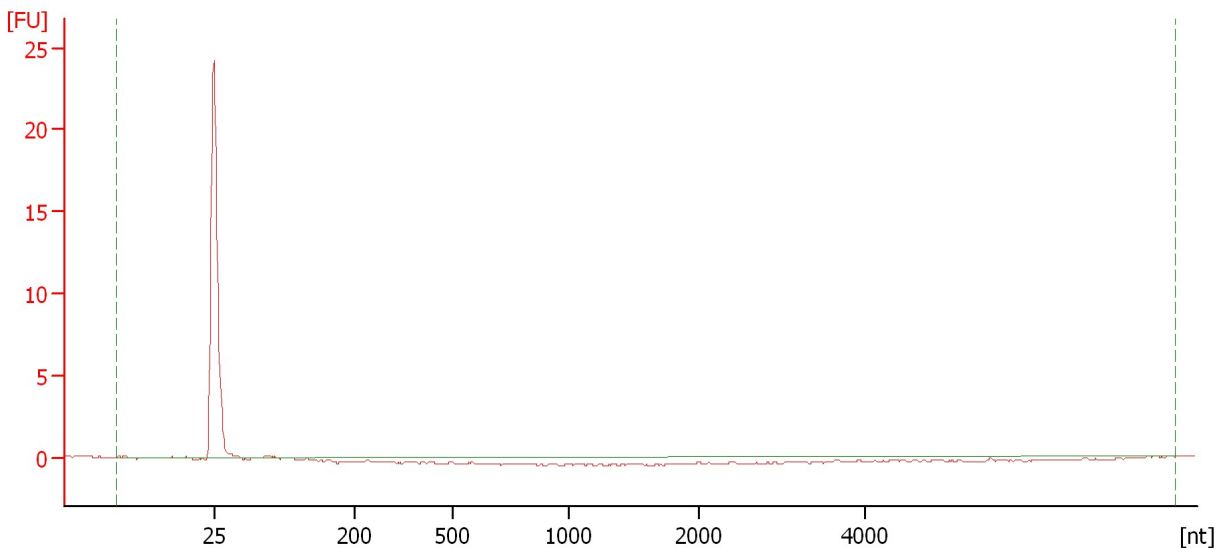
RNA Area:	9.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	46 pg/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 2



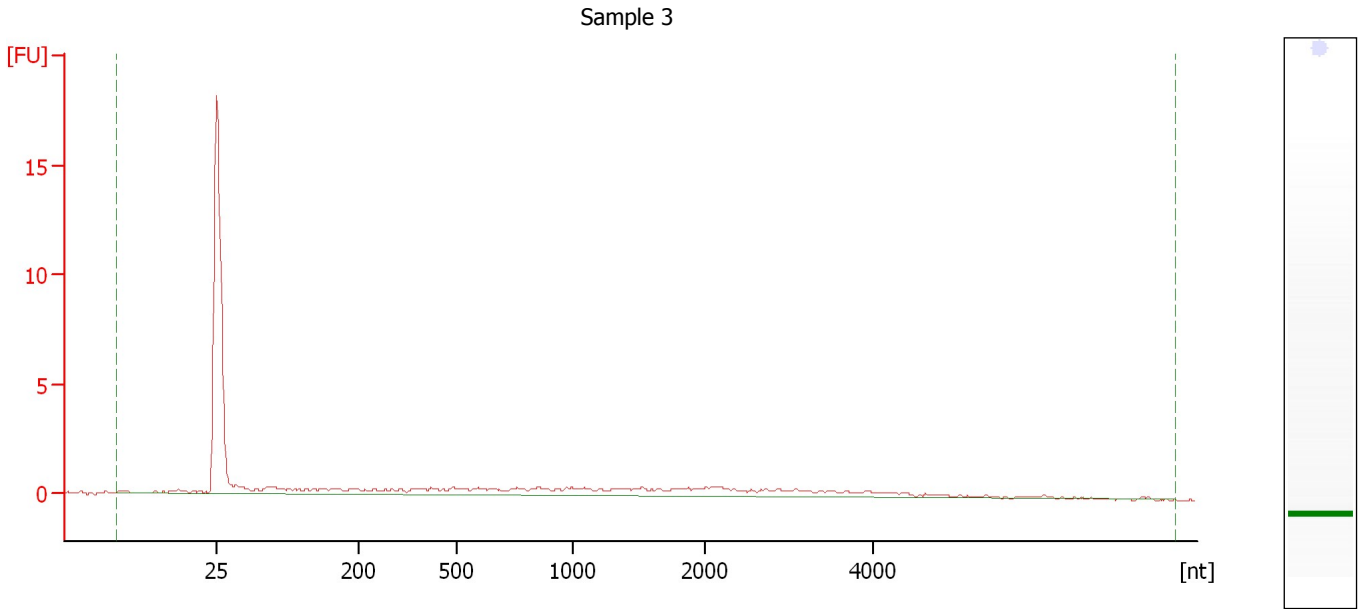
**Overall Results for sample 2 : Sample 2**

RNA Area:	0.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**



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

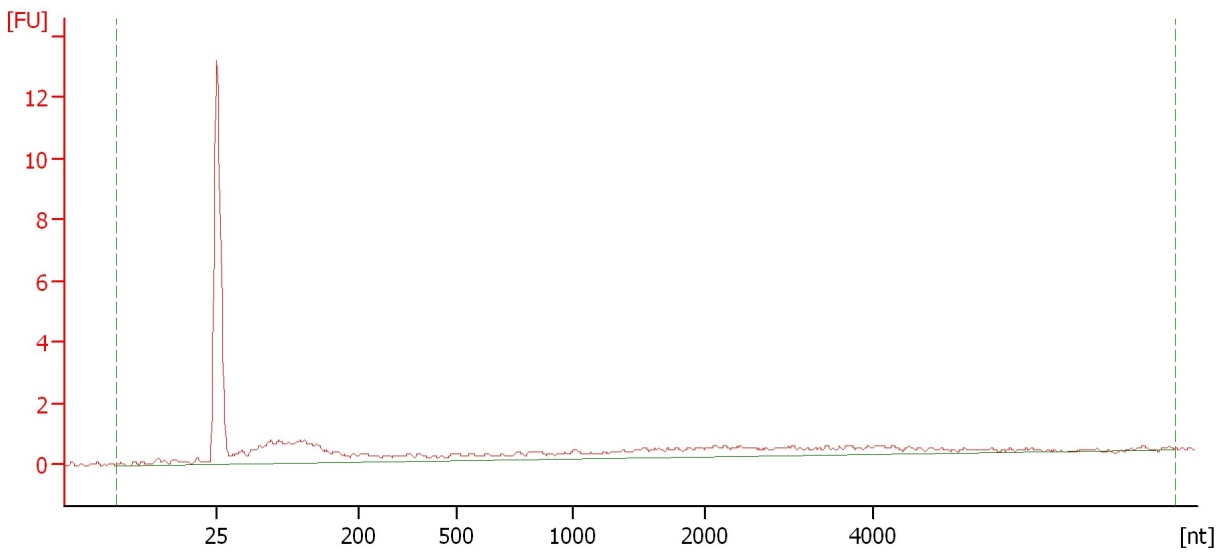
RNA Area:	22.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	111 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 4



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

RNA Area:	24.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	118 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]:	0.0	Result Flagging Label:	RIN:1

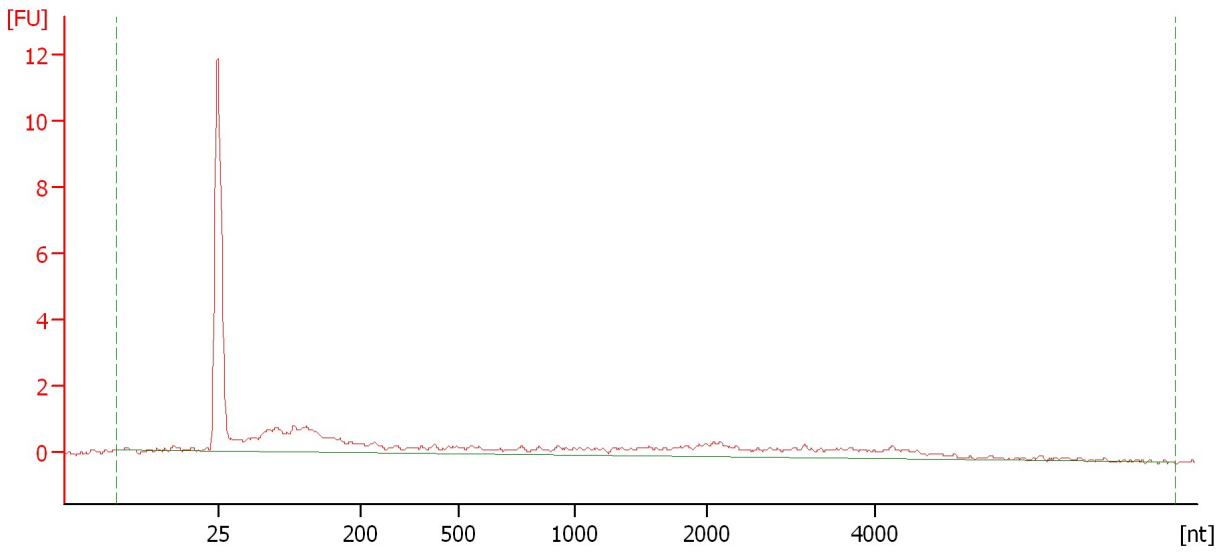


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 5



**Overall Results for sample 5 : Sample 5**

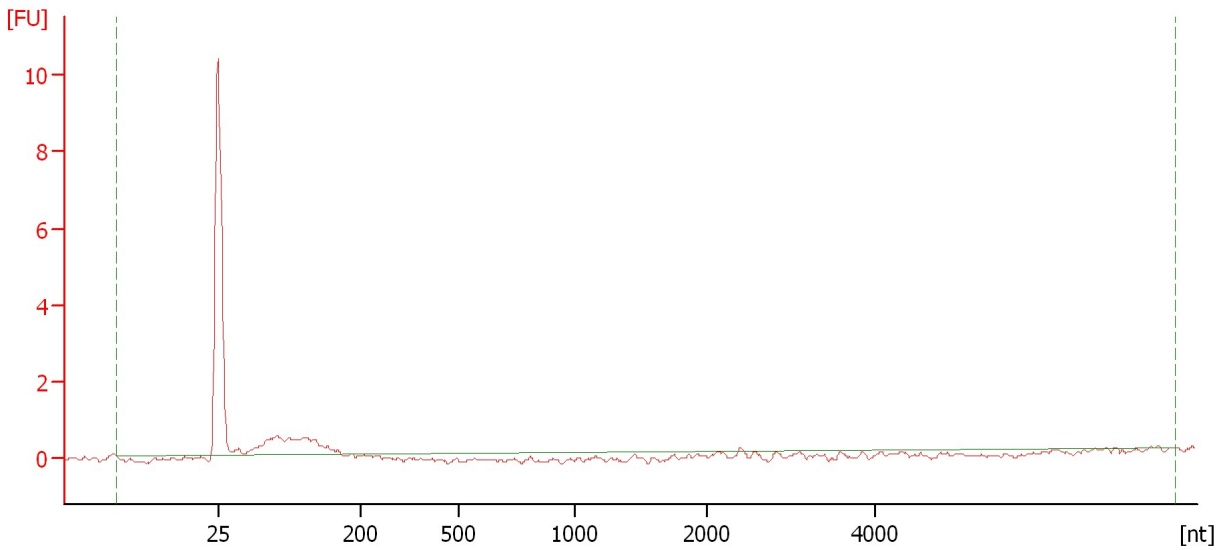
RNA Area:	27.0	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	132 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 6



**Overall Results for sample 6 : Sample 6**

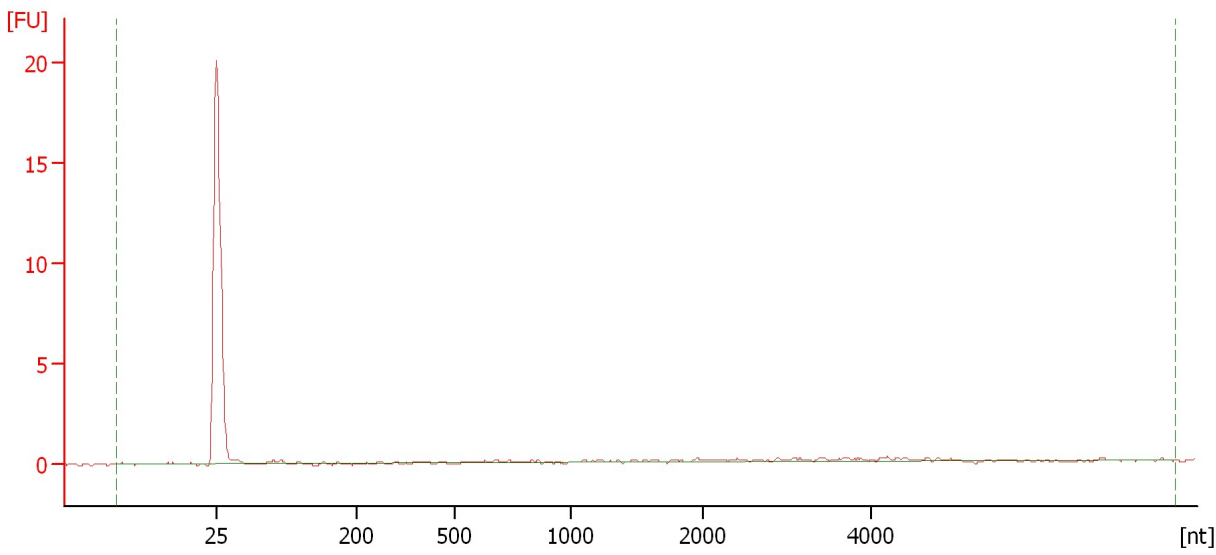
RNA Area:	4.9	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	24 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 7



**Overall Results for sample 7 : Sample 7**

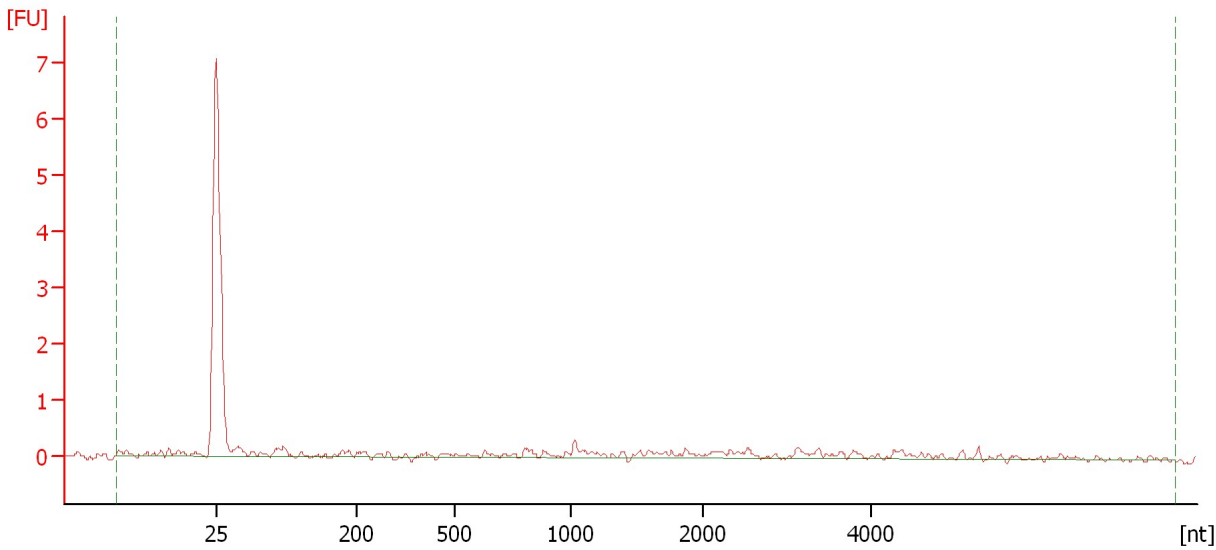
RNA Area:	5.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	27 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 8



**Overall Results for sample 8 : Sample 8**

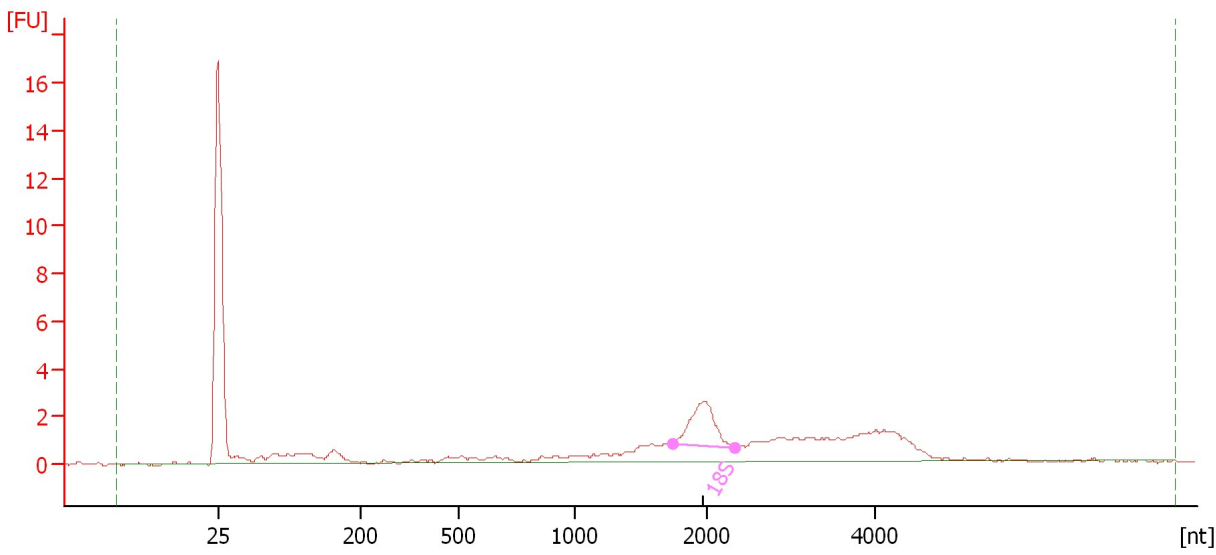
RNA Area:	6.1	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	30 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 9



**Overall Results for sample 9 : Sample 9**

RNA Area:	38.4	RNA Integrity Number (RIN):	5.8 (B.02.08)
RNA Concentration:	187 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]:	0.0	Result Flagging Label:	RIN: 5.80

**Fragment table for sample 9 : Sample 9**

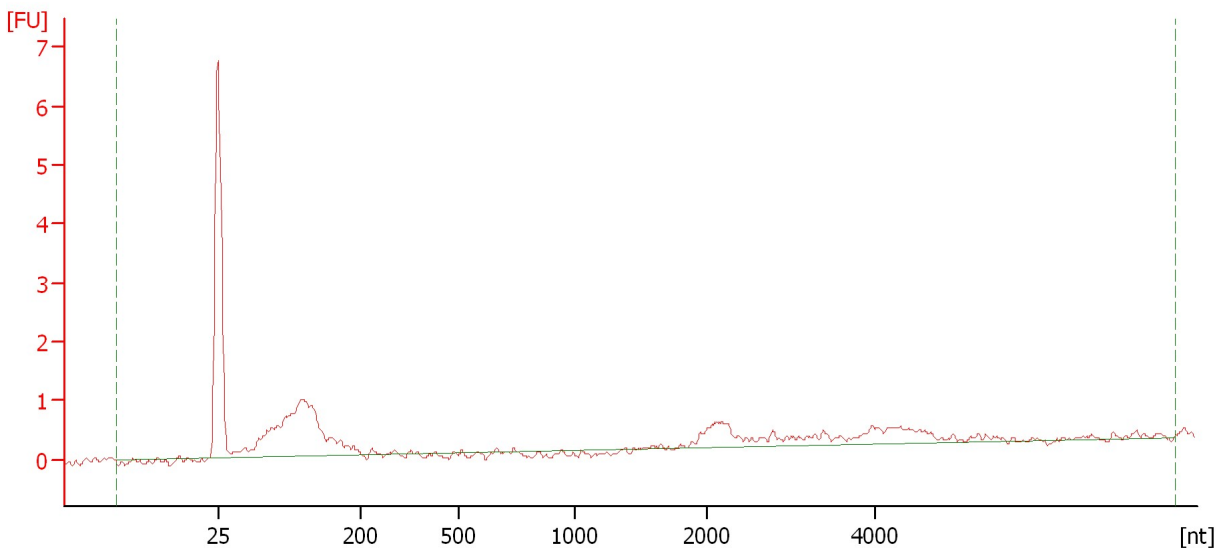
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,740	2,329	5.1	13.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 10



**Overall Results for sample 10 : Sample 10**

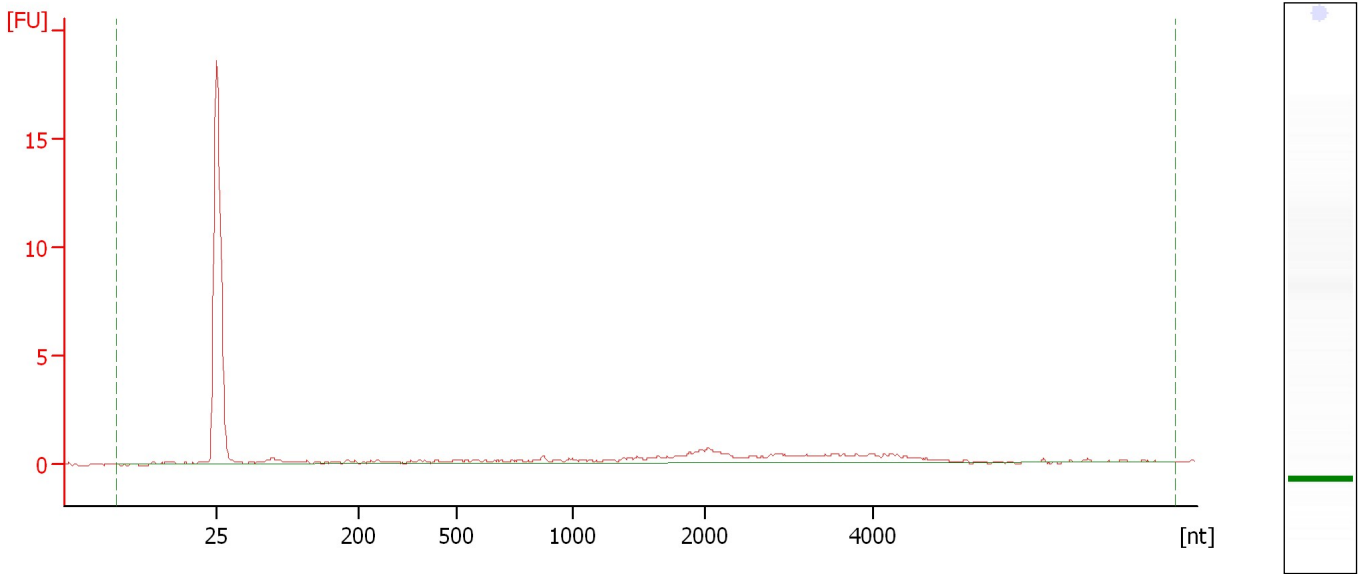
RNA Area:	15.1	RNA Integrity Number (RIN):	1.5 (B.02.08)
RNA Concentration:	74 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.50

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Electropherogram Summary Continued ...**

Sample 11



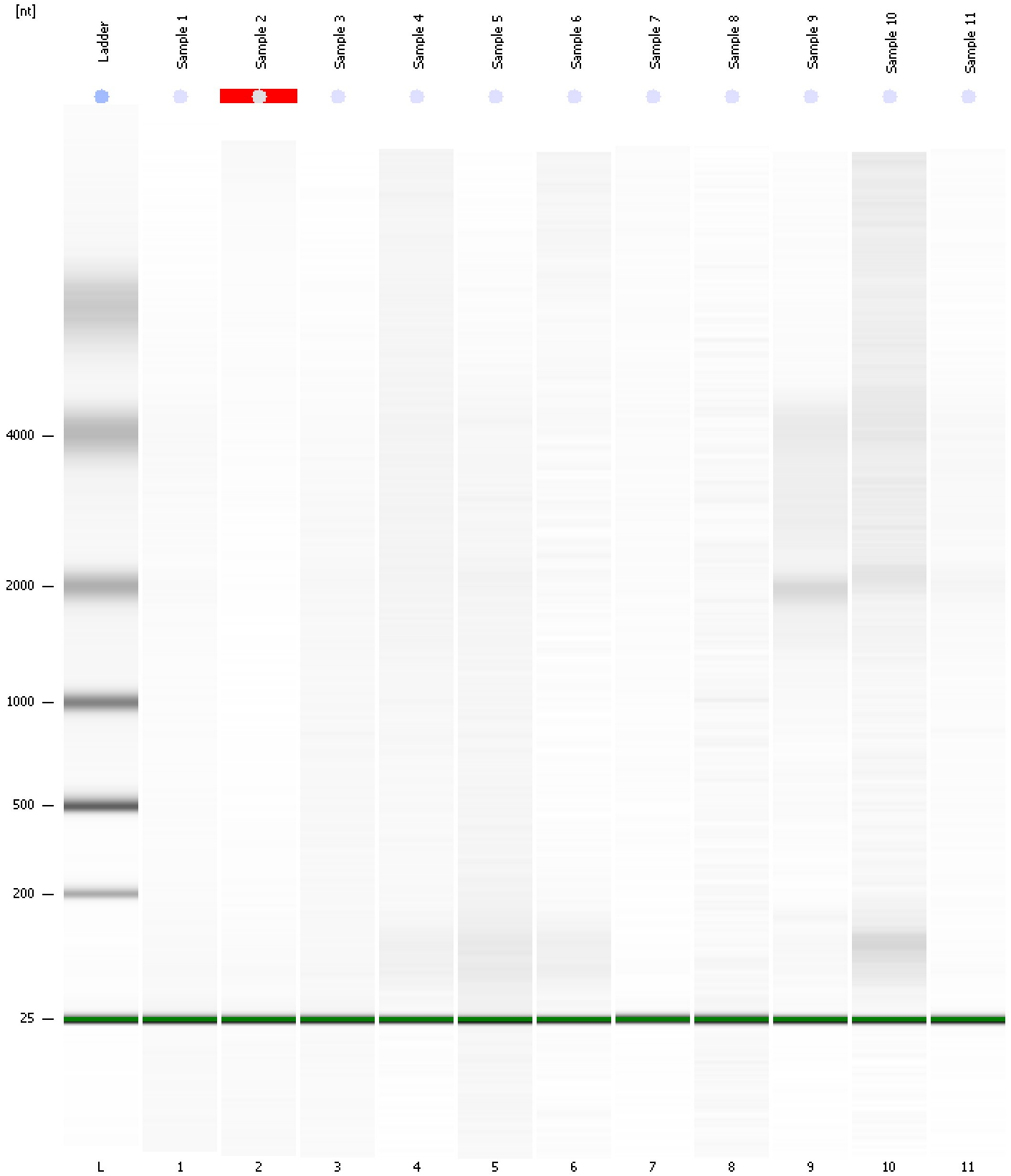
**Overall Results for sample 11 : Sample 11**

RNA Area:	15.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	78 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]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
Modified: 10/20/2016 2:20:46 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-20\2016-10-20\_004.xad

Created: 10/20/2016 1:57:52 PM  
 Modified: 10/20/2016 2:20:46 PM

**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		10/20/2016 2:20:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-10-20\2016-10-20_004.xad)		Instrument	Run		10/20/2016 1:57:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/20/2016 1:57:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/20/2016 1:57:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/20/2016 1:57:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/20/2016 1:57:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/20/2016 1:57:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/20/2016 1:57:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1