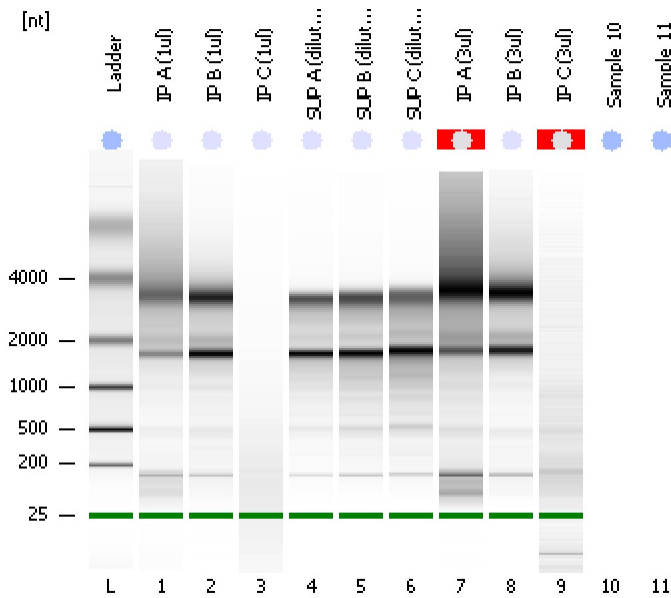


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

### Electrophoresis File Run Summary



#### Instrument Information:

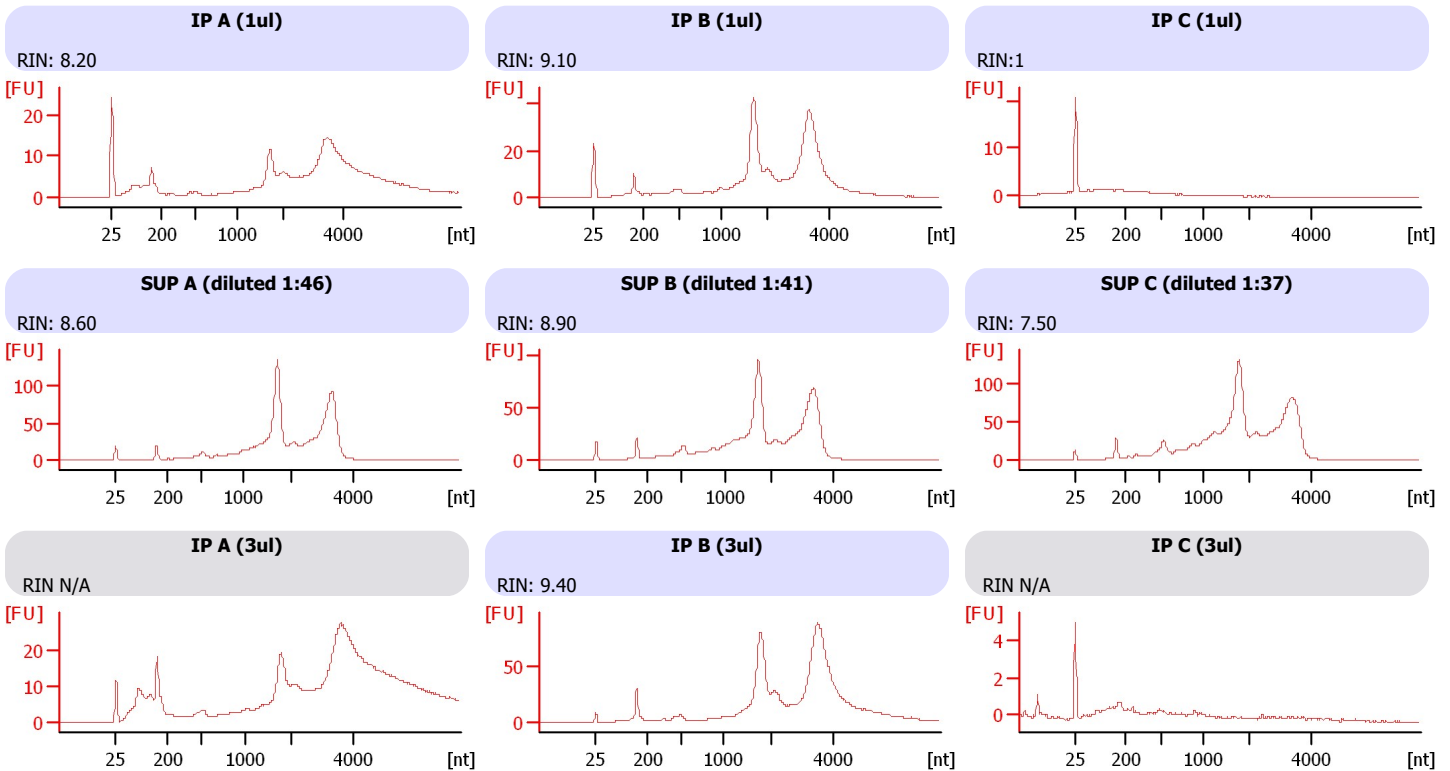
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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)  
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#### Chip Information:

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



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
IP A (1ul)		✓	RIN: 8.20	
IP B (1ul)		✓	RIN: 9.10	
IP C (1ul)		✓	RIN:1	
SUP A (diluted 1:46)		✓	RIN: 8.60	
SUP B (diluted 1:41)		✓	RIN: 8.90	
SUP C (diluted 1:37)		✓	RIN: 7.50	
IP A (3ul)		✓	RIN N/A	
IP B (3ul)		✓	RIN: 9.40	
IP C (3ul)		✓	RIN N/A	
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 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

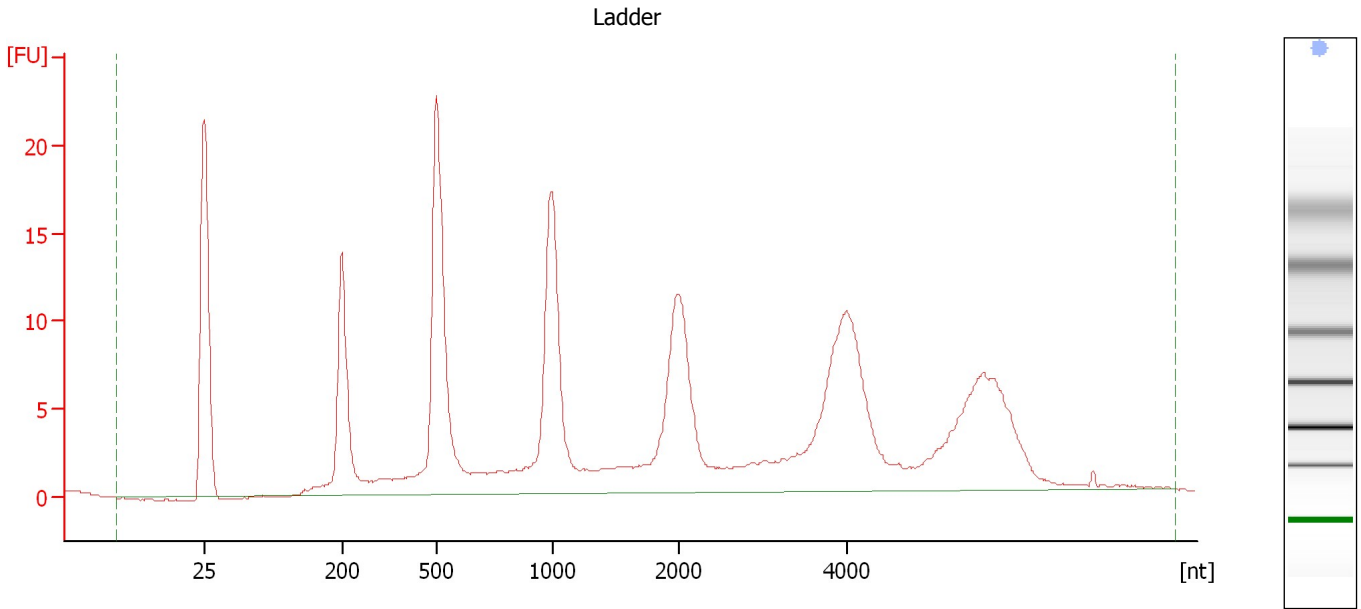
### Ladder

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\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary**



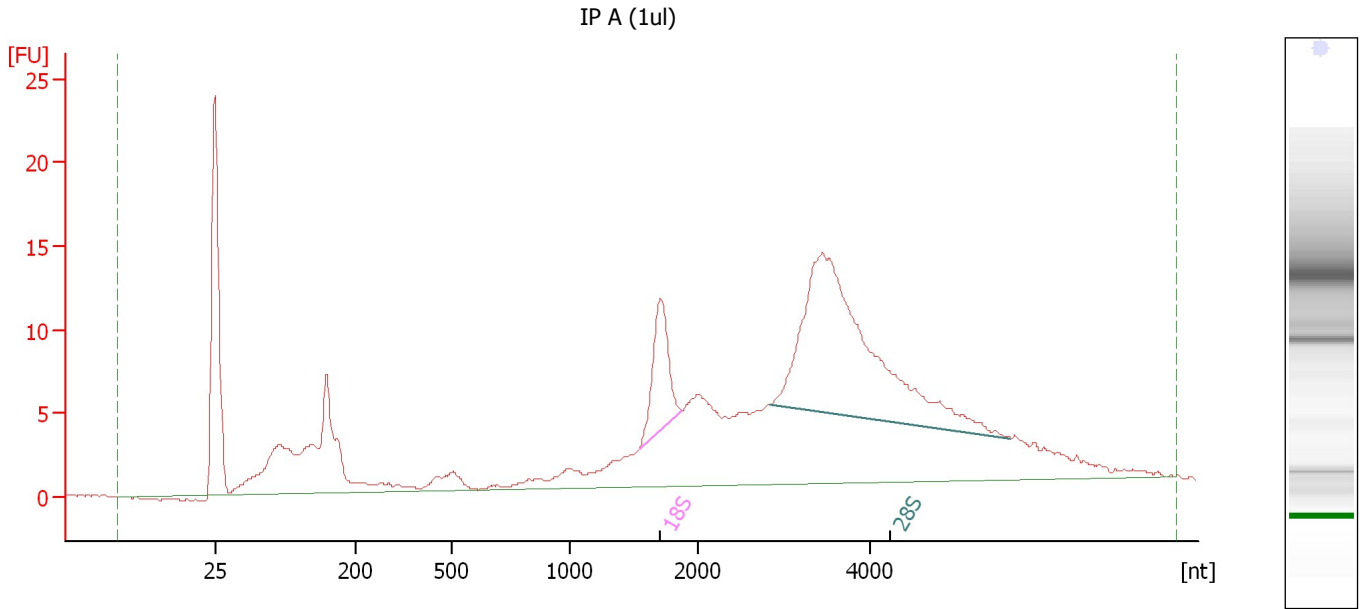
**Overall Results for Ladder**

RNA Area:	265.8	Result Flagging Color:	<span style="background-color: #6699ff; 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\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : IP A (1ul)**

RNA Area: 288.5                      RNA Integrity Number (RIN): 8.2 (B.02.08)  
RNA Concentration: 1,085 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 4.5                      Result Flagging Label: RIN: 8.20

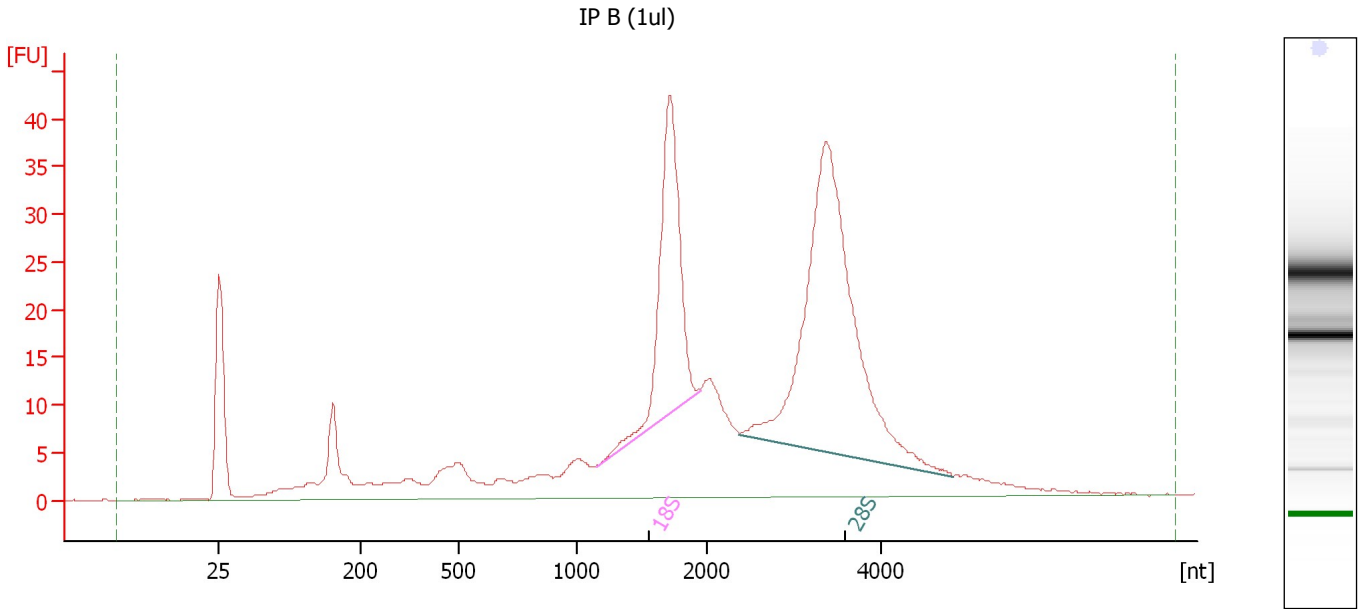
**Fragment table for sample 1 : IP A (1ul)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,547	1,879	14.8	5.1
28S	2,851	5,633	67.0	23.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
 Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : IP B (1ul)**

RNA Area:	554.2	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	2,085 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]:	2.0	Result Flagging Label:	RIN: 9.10

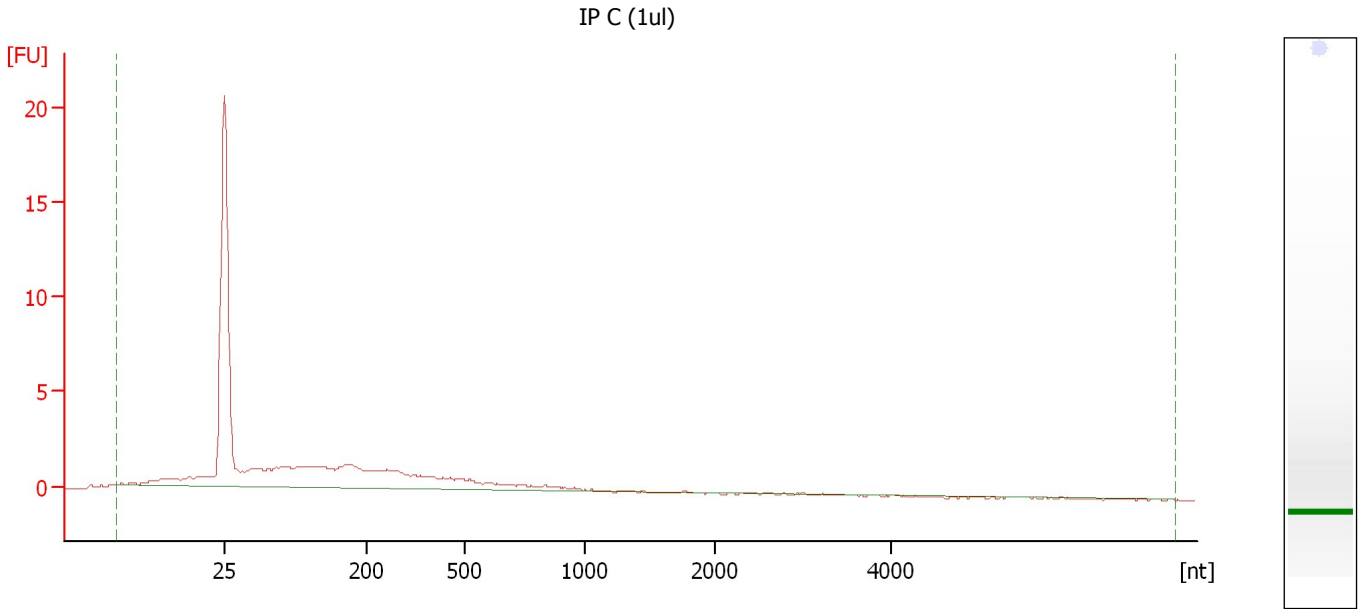
**Fragment table for sample 2 : IP B (1ul)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,151	1,949	76.6	13.8
28S	2,379	4,825	157.0	28.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



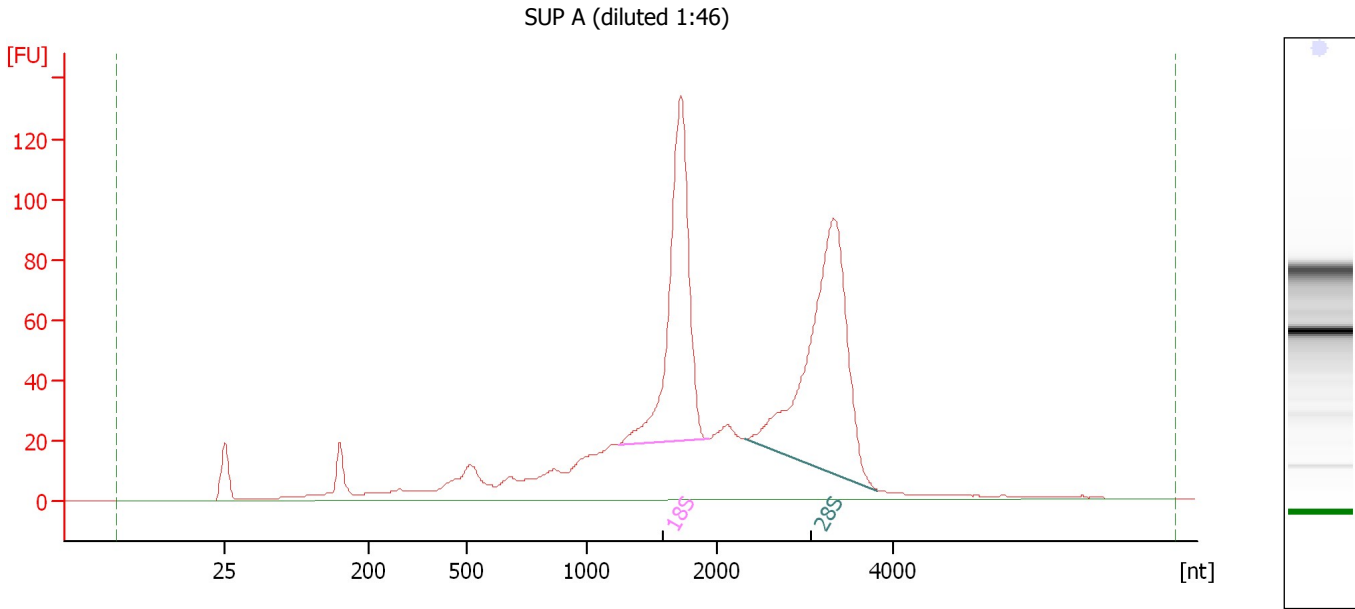
**Overall Results for sample 3 : IP C (1ul)**

RNA Area:	42.1	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	158 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\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
 Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : SUP A (diluted 1:46)**

RNA Area:	1,299.2	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	4,887 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]:	1.3	Result Flagging Label:	RIN: 8.60

**Fragment table for sample 4 : SUP A (diluted 1:46)**

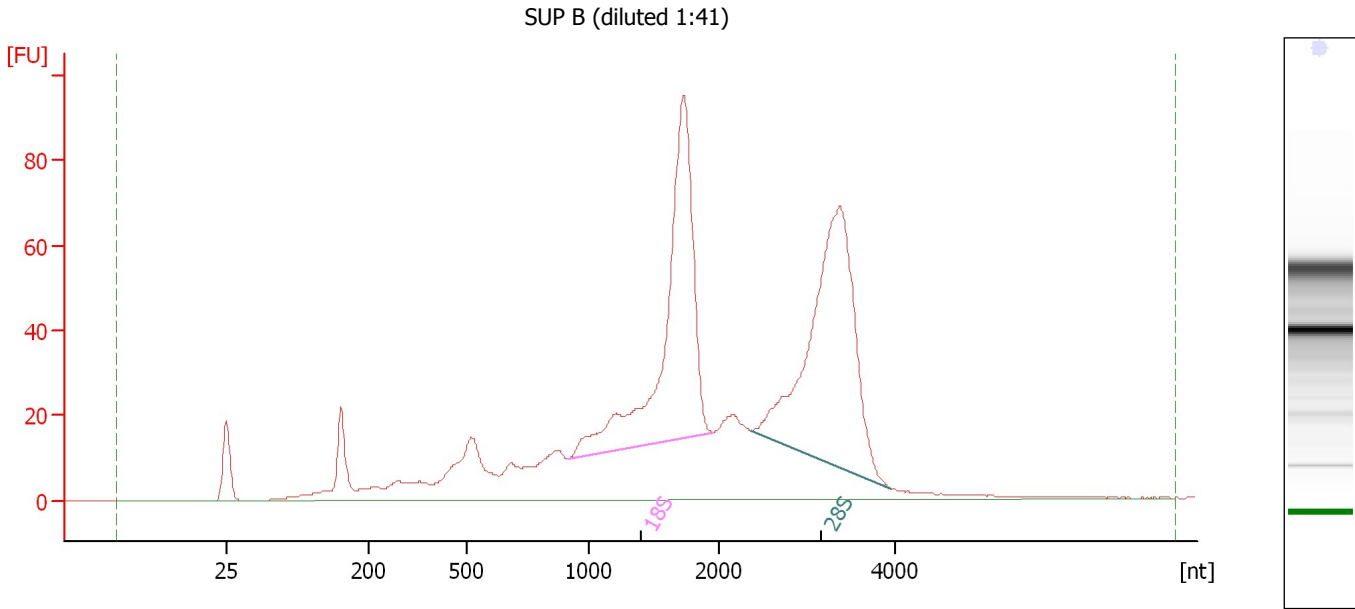
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,243	1,936	262.9	20.2
28S	2,318	3,827	331.9	25.5



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : SUP B (diluted 1:41)**

RNA Area: 1,155.0 RNA Integrity Number (RIN): 8.9 (B.02.08)  
RNA Concentration: 4,344 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 8.90

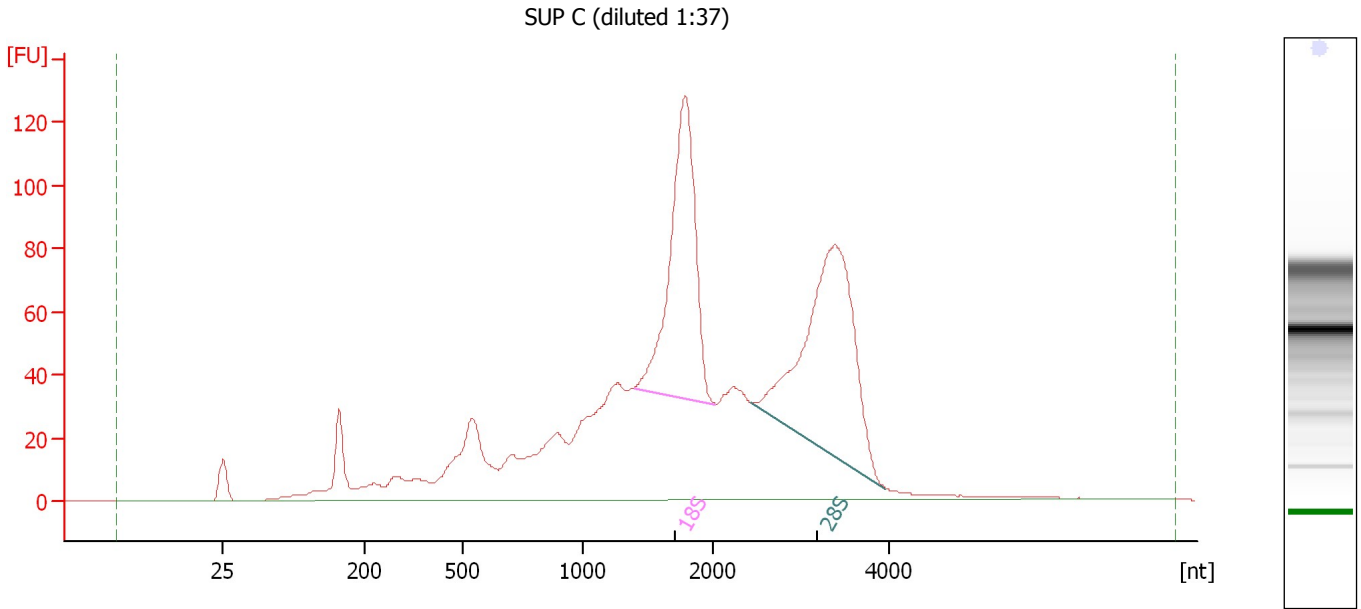
**Fragment table for sample 5 : SUP B (diluted 1:41)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	916	1,944	267.2	23.1
28S	2,367	3,945	276.4	23.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : SUP C (diluted 1:37)**

RNA Area: 1,832.5      RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 6,893 pg/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2      Result Flagging Label: RIN: 7.50

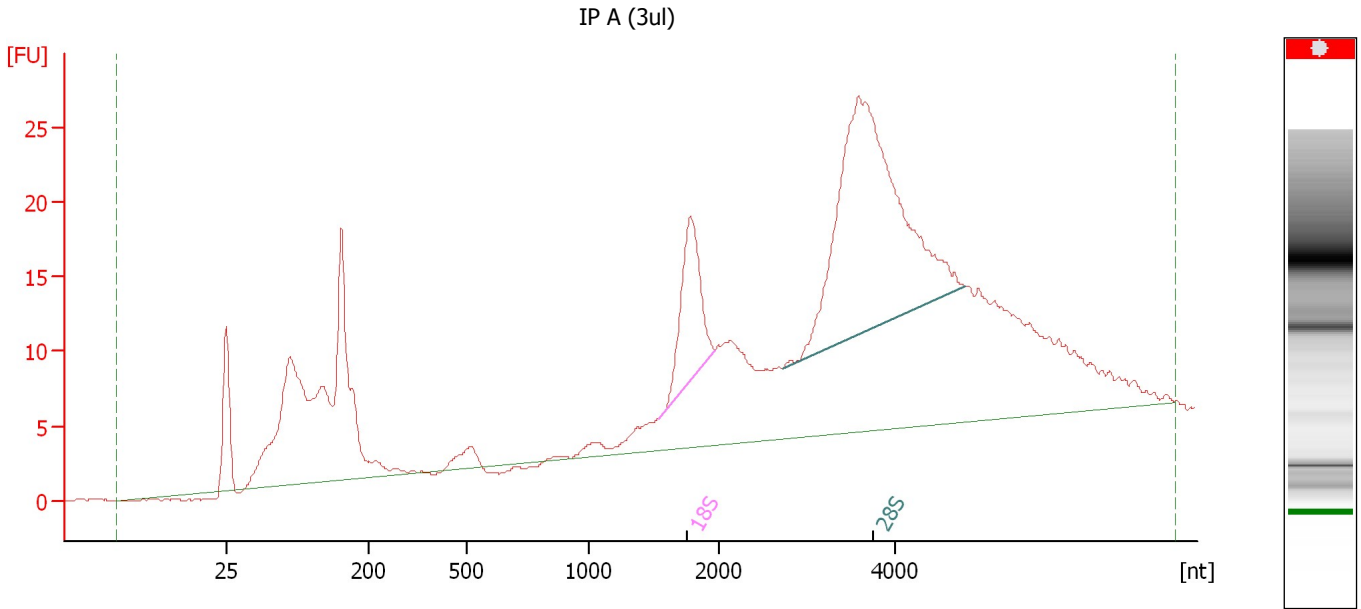
**Fragment table for sample 6 : SUP C (diluted 1:37)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,395	2,024	278.6	15.2
28S	2,440	3,967	333.4	18.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : IP A (3ul)**

RNA Area:	476.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,794 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]:	3.9	Result Flagging Label:	RIN N/A

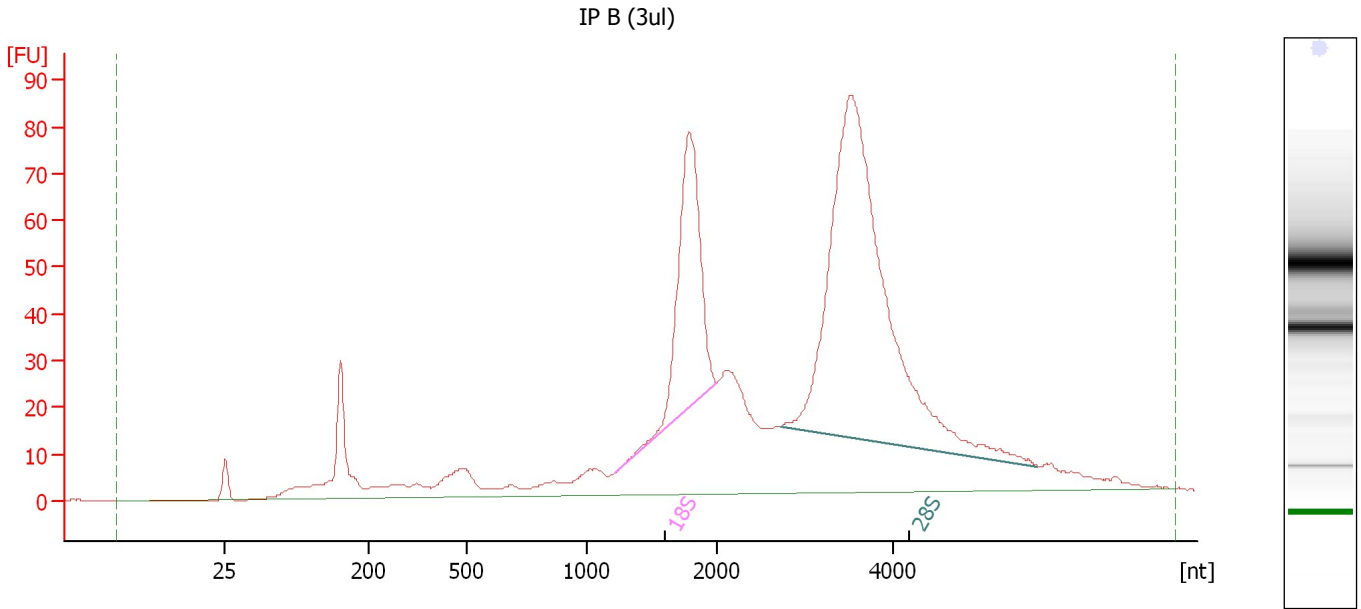
**Fragment table for sample 7 : IP A (3ul)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,546	1,969	24.8	5.2
28S	2,719	4,783	96.5	20.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
 Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : IP B (3ul)**

RNA Area:	1,210.8	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	4,555 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]:	2.7	Result Flagging Label:	RIN: 9.40

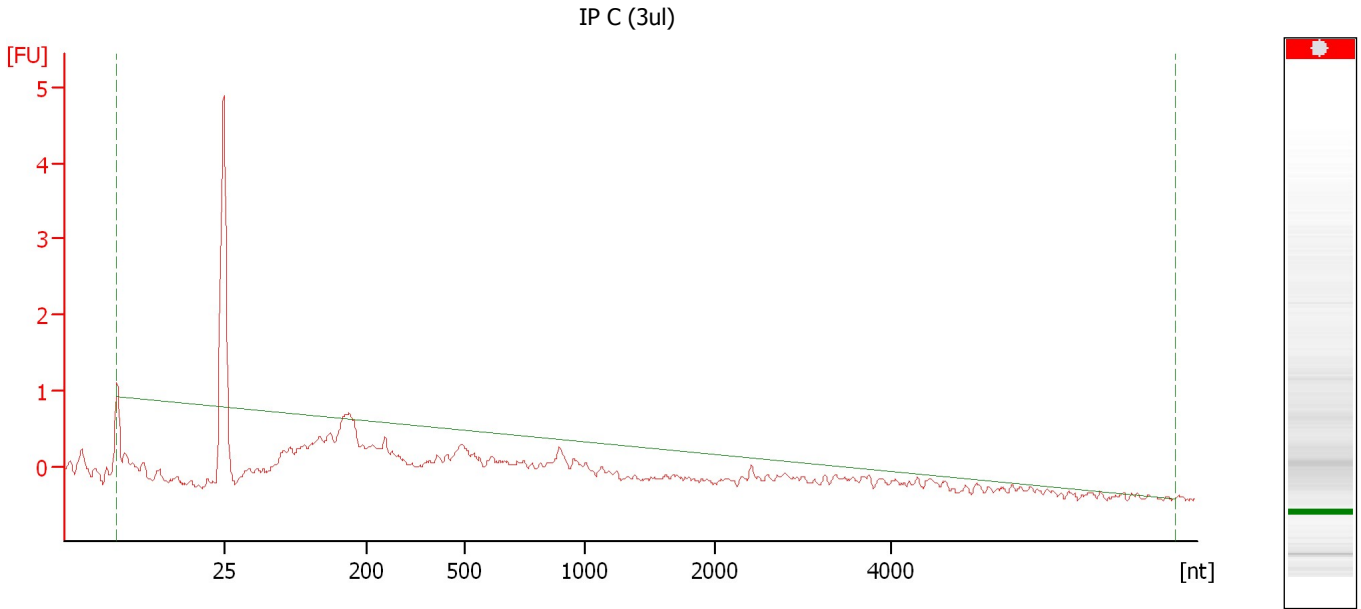
**Fragment table for sample 8 : IP B (3ul)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,219	1,993	149.5	12.3
28S	2,732	5,652	400.3	33.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Electropherogram Summary Continued ...**



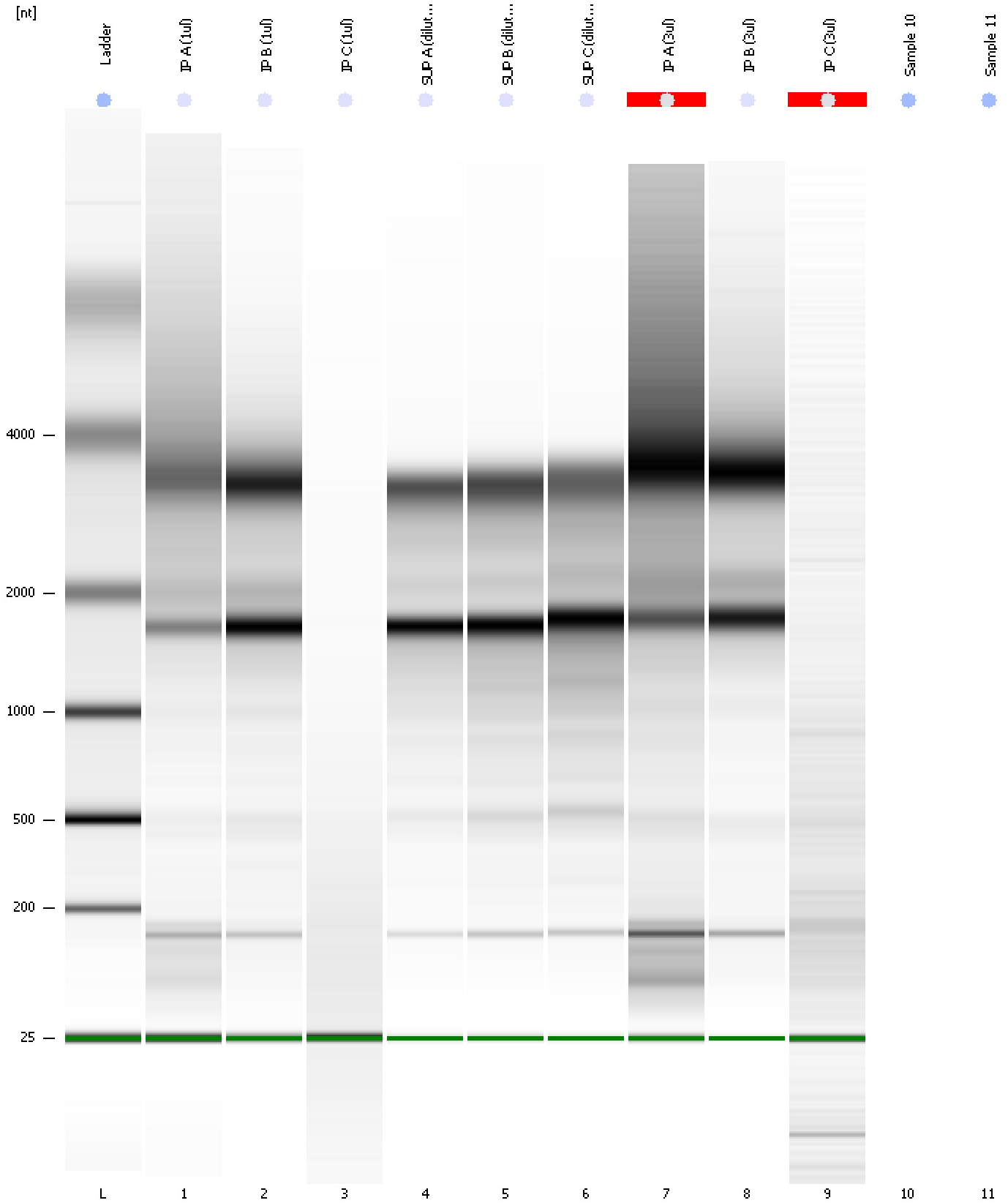
**Overall Results for sample 9 : IP C (3ul)**

RNA Area:	0.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	0 pg/ $\mu$ l	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\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
Modified: 1/17/2017 12:12:37 PM

**Invalid Samples**

Sample 10 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-17\2017-01-17\_002.xad

Created: 1/17/2017 11:41:51 AM  
 Modified: 1/17/2017 12:12:37 PM

**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		1/17/2017 12:01:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-01-17\2017-01-17_002.xad)		Instrument	Run		1/17/2017 11:41:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/17/2017 11:41:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/17/2017 11:41:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/17/2017 11:41:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/17/2017 11:41:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/17/2017 11:41:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/17/2017 11:41:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1