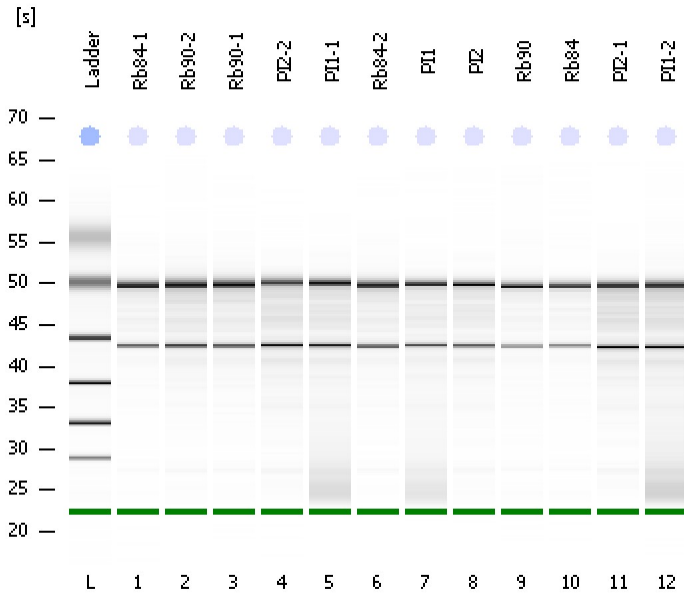


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 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)

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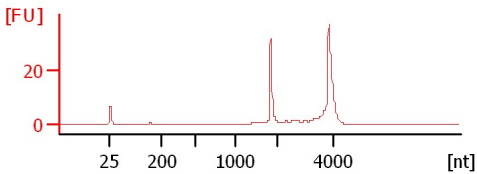
Chip Information:

Chip Lot #:

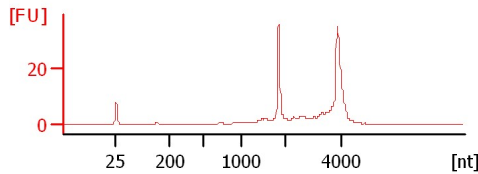
Reagent Kit Lot #:

Chip Comments:

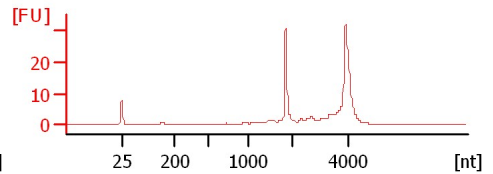
**Rb84-1**  
RIN: 9.90



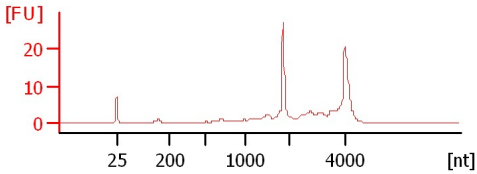
**Rb90-2**  
RIN: 9



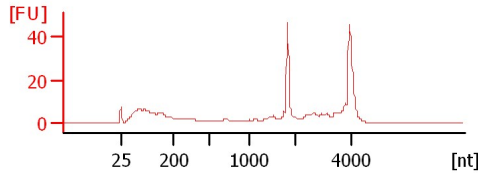
**Rb90-1**  
RIN: 9.20



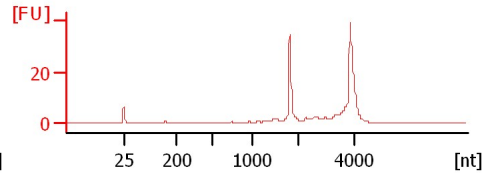
**PI2-2**  
RIN: 8.40



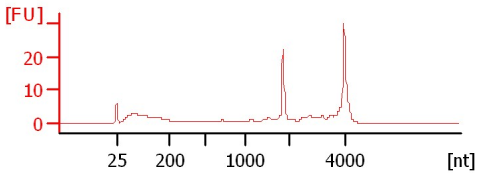
**PI1-1**  
RIN: 8



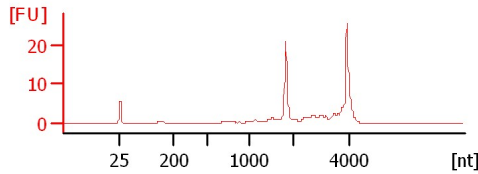
**Rb84-2**  
RIN: 9.50



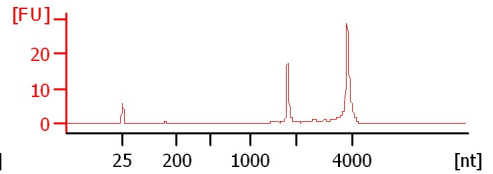
**PI1**  
RIN: 8



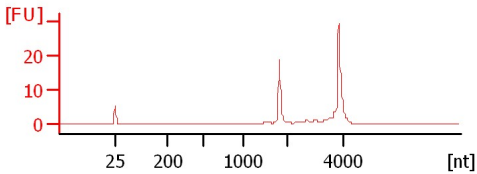
**PI2**  
RIN: 8.80



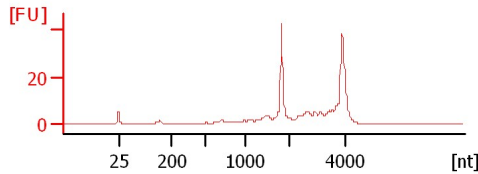
**Rb90**  
RIN: 9.50



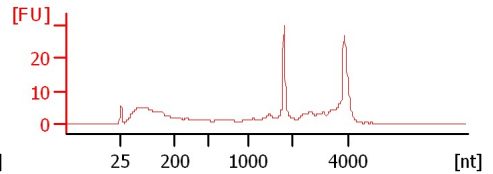
**Rb84**  
RIN: 9.90



**PI2-1**  
RIN: 8.10



**PI1-2**  
RIN: 7.60



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
 Modified: 6/2/2014 10:00:07 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Rb84-1		✓	RIN: 9.90	
Rb90-2		✓	RIN:9	
Rb90-1		✓	RIN: 9.20	
PI2-2		✓	RIN: 8.40	
PI1-1		✓	RIN:8	
Rb84-2		✓	RIN: 9.50	
PI1		✓	RIN:8	
PI2		✓	RIN: 8.80	
Rb90		✓	RIN: 9.50	
Rb84		✓	RIN: 9.90	
PI2-1		✓	RIN: 8.10	
PI1-2		✓	RIN: 7.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 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/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 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

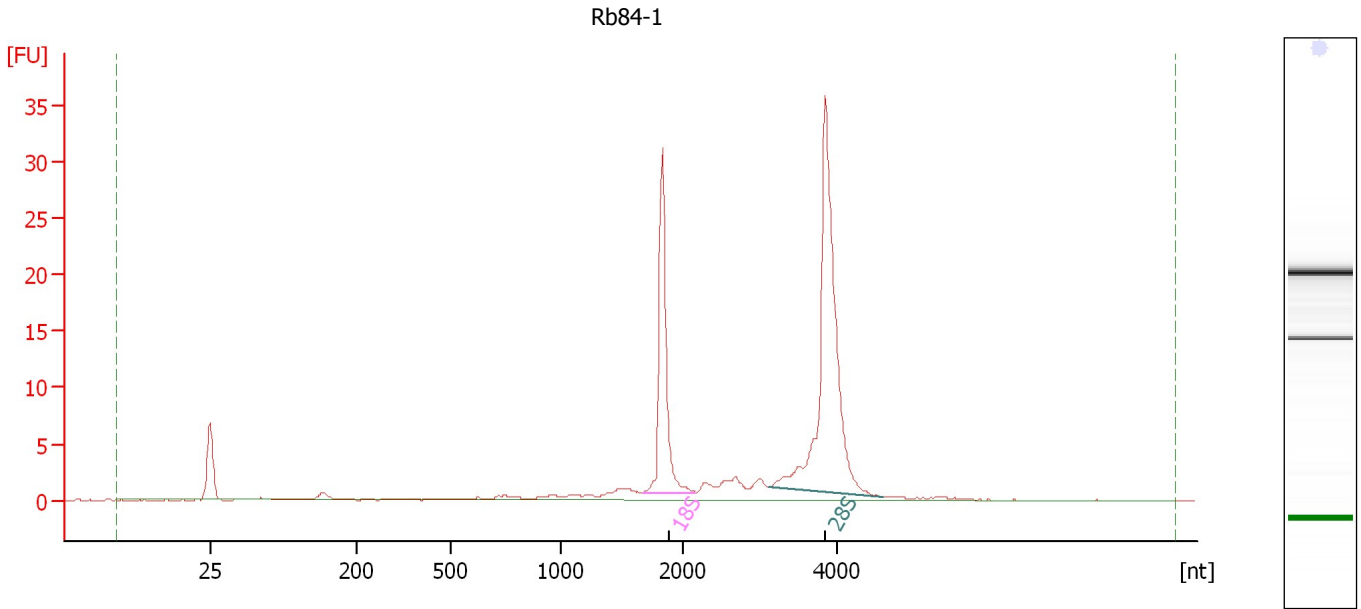
**Ladder**

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\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary**



**Overall Results for sample 1 : Rb84-1**

RNA Area: 116.0                      RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 75 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.2                      Result Flagging Label: RIN: 9.90

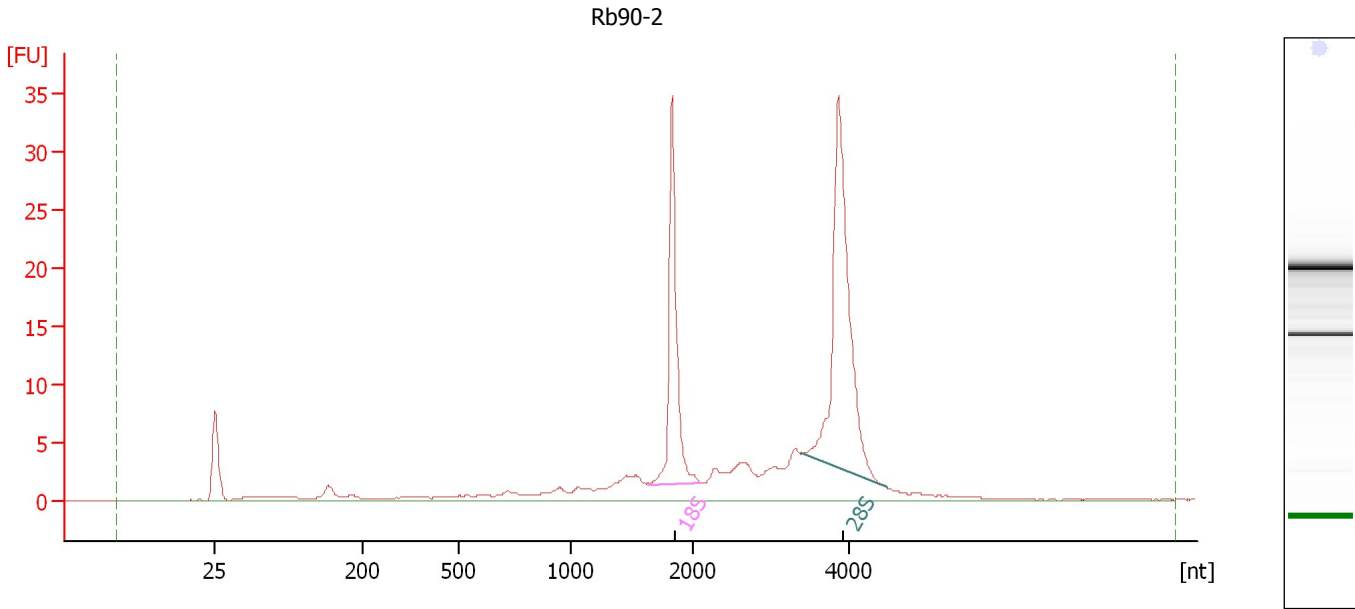
**Fragment table for sample 1 : Rb84-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	2,158	24.7	21.3
28S	3,133	4,611	55.2	47.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Rb90-2**

RNA Area: 168.6                      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 109 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8                      Result Flagging Label: RIN:9

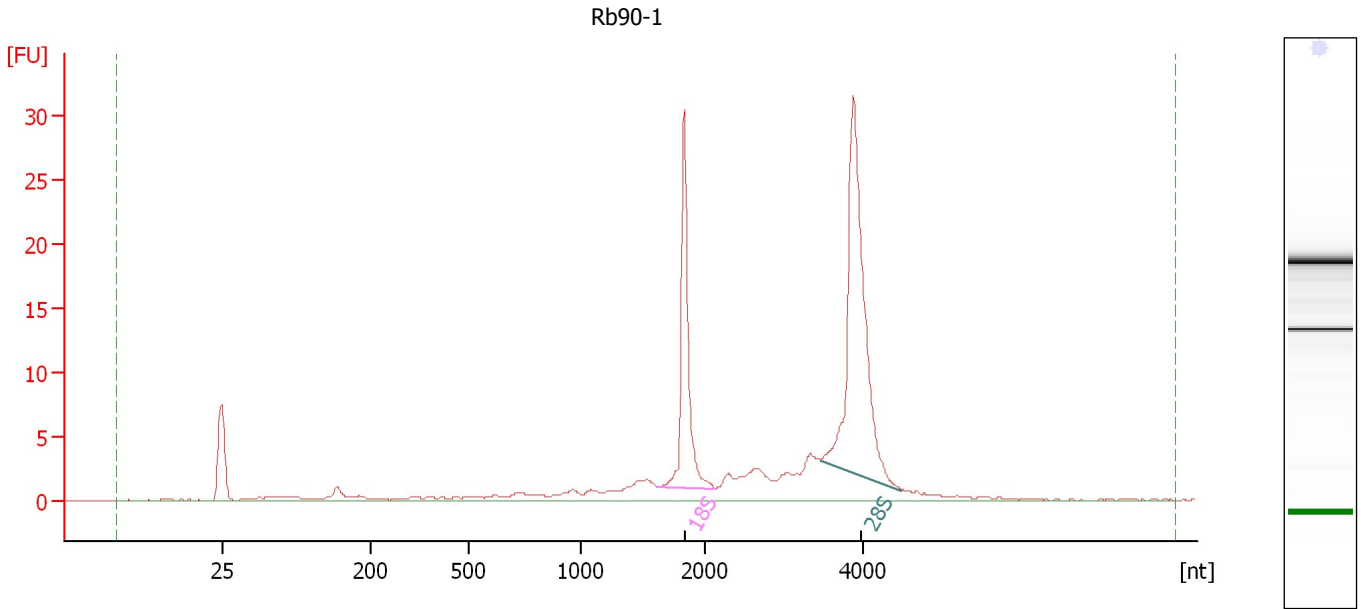
**Fragment table for sample 2 : Rb90-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	2,092	28.9	17.2
28S	3,402	4,492	51.3	30.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Rb90-1**

RNA Area: 139.6                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 90 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN: 9.20

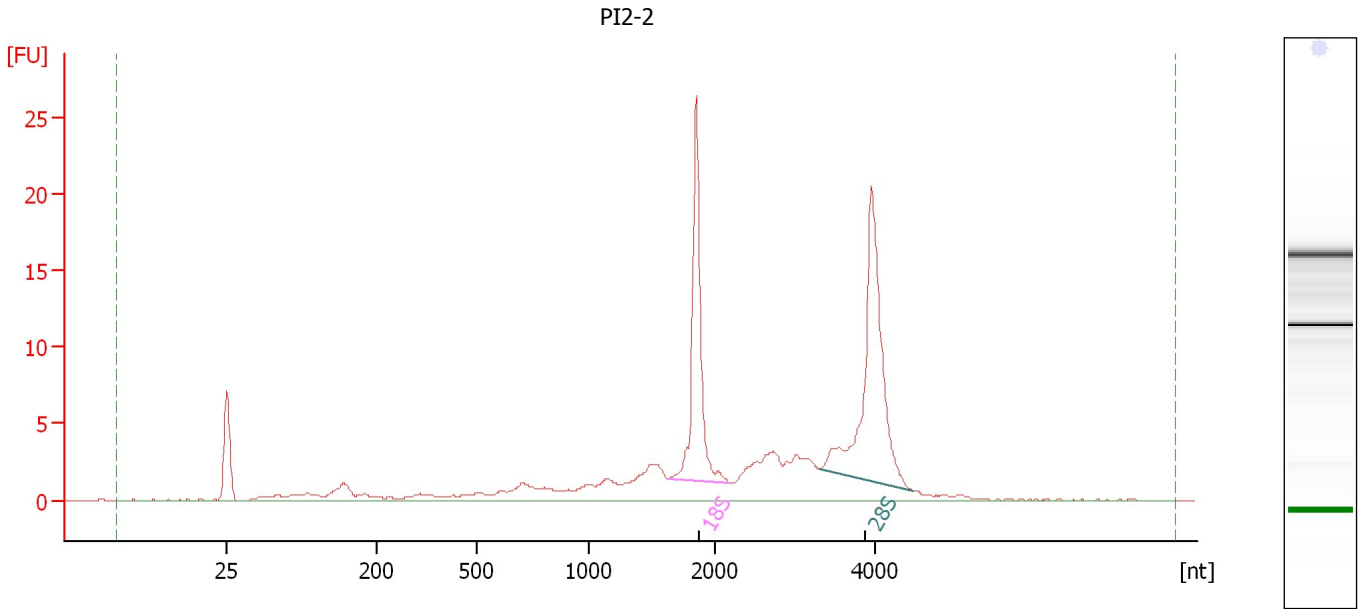
**Fragment table for sample 3 : Rb90-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	2,124	24.7	17.7
28S	3,459	4,495	46.3	33.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
 Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : PI2-2**

RNA Area:	131.7	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	85 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]:	1.4	Result Flagging Label:	RIN: 8.40

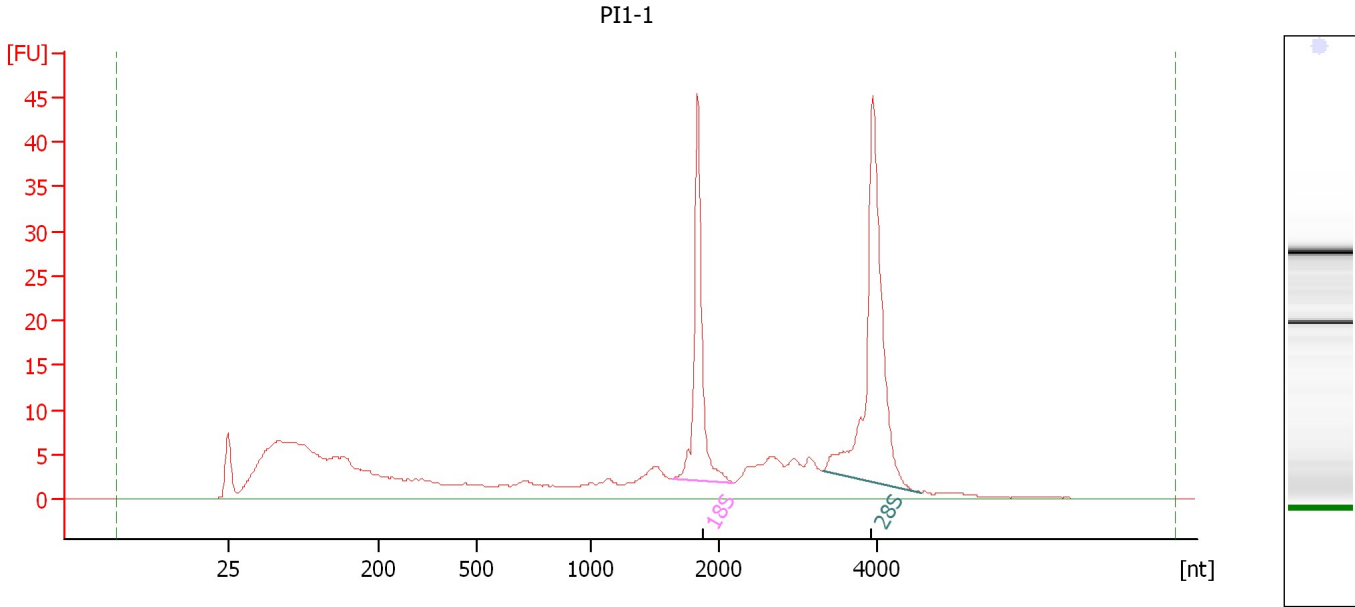
**Fragment table for sample 4 : PI2-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	2,168	23.4	17.8
28S	3,301	4,488	33.5	25.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : PI1-1**

RNA Area: 335.1                      RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 216 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7              Result Flagging Label: RIN:8

**Fragment table for sample 5 : PI1-1**

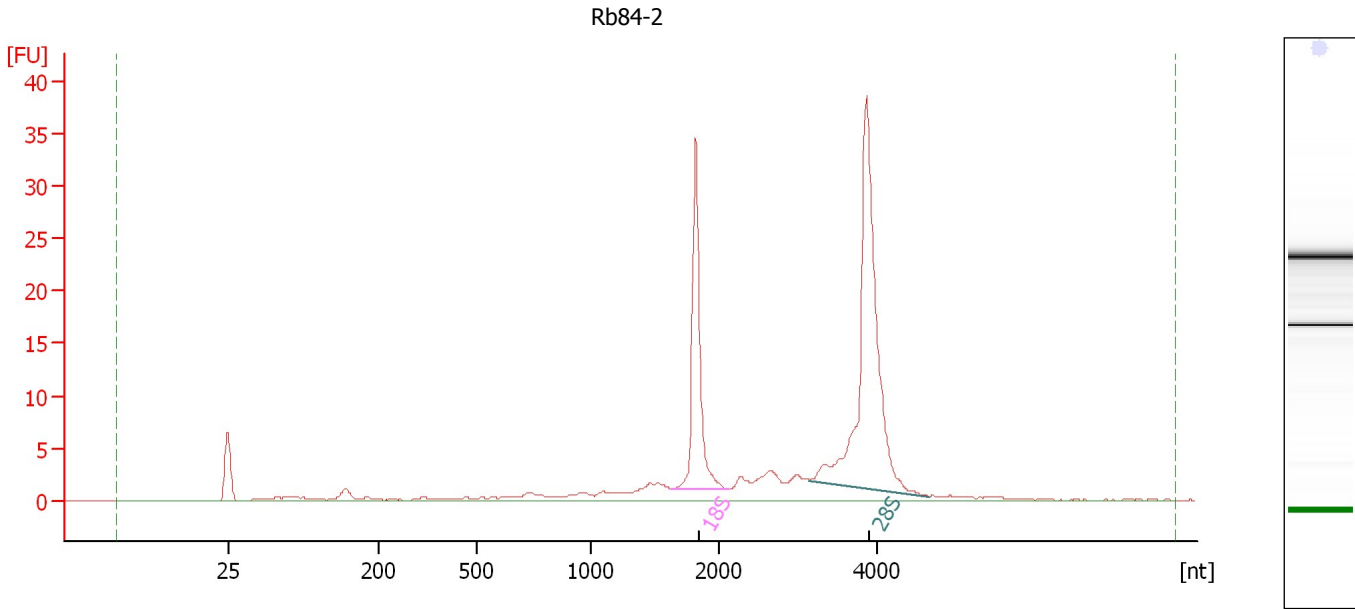
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	2,196	38.9	11.6
28S	3,313	4,551	66.0	19.7



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Rb84-2**

RNA Area: 146.3                      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 94 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0              Result Flagging Label: RIN: 9.50

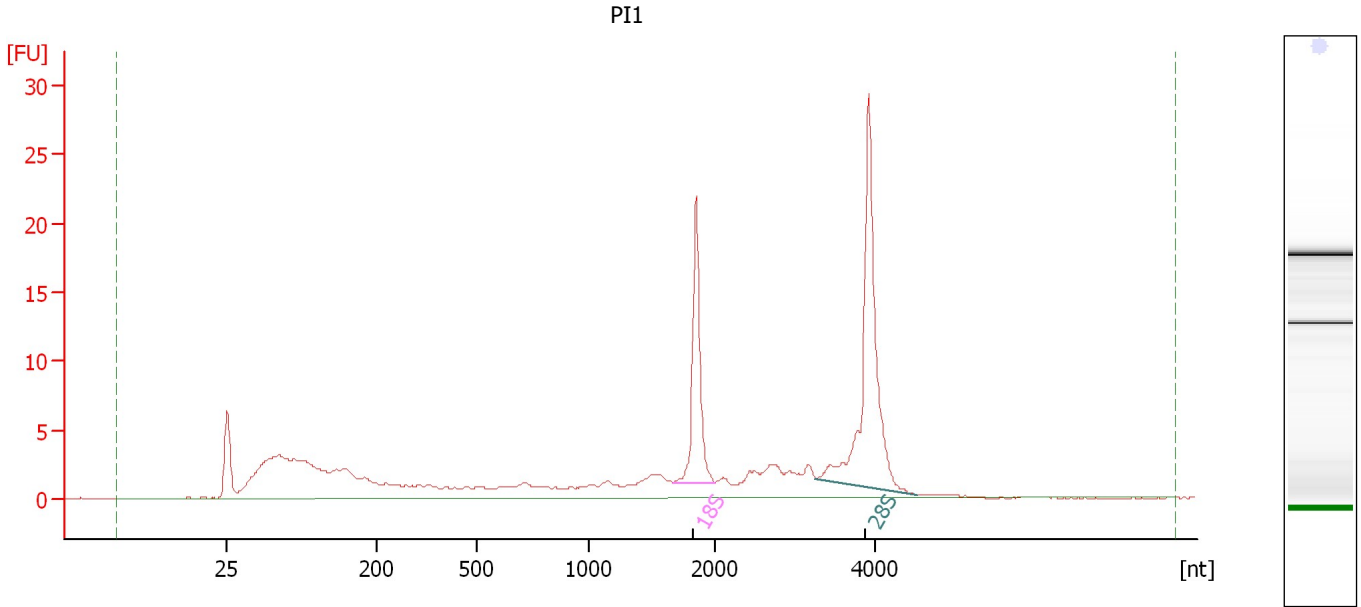
**Fragment table for sample 6 : Rb84-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	2,142	29.0	19.8
28S	3,151	4,658	59.4	40.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : PI1**

RNA Area: 164.5                      RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 106 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0              Result Flagging Label: RIN:8

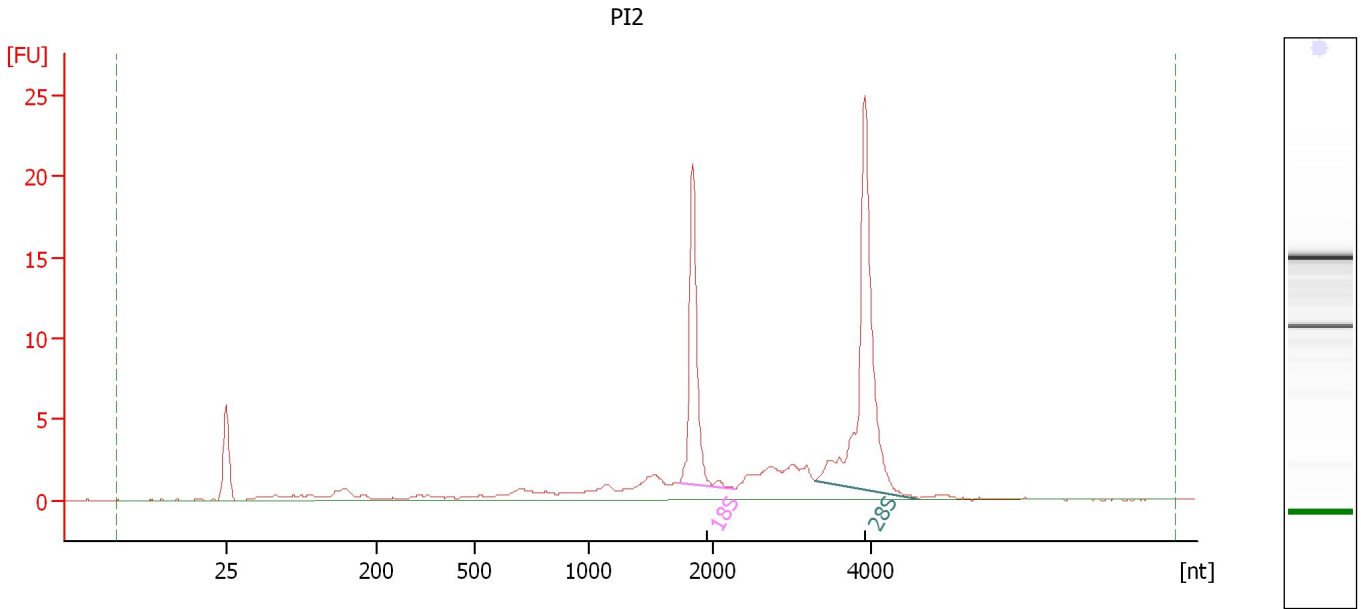
**Fragment table for sample 7 : PI1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,656	1,987	17.2	10.4
28S	3,260	4,528	34.6	21.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : PI2**

RNA Area: 91.7                      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 59 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 8.80

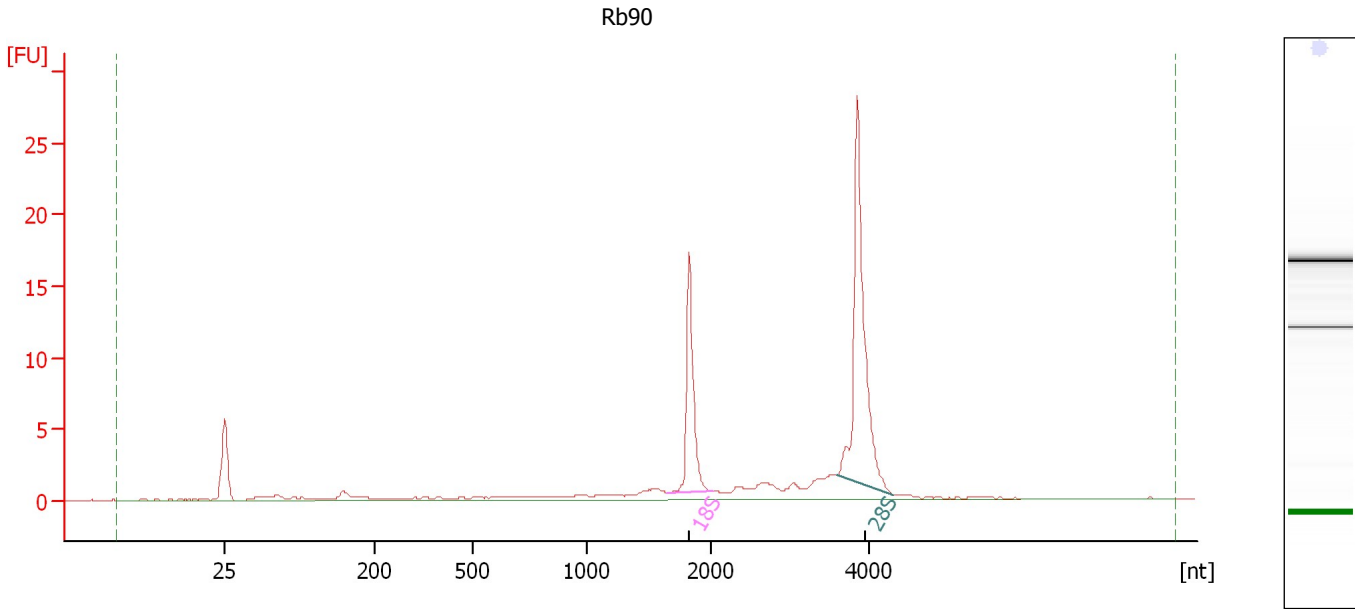
**Fragment table for sample 8 : PI2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,715	2,262	16.5	18.0
28S	3,289	4,573	30.3	33.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Rb90**

RNA Area:	72.0	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	46 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]:	2.1	Result Flagging Label:	RIN: 9.50

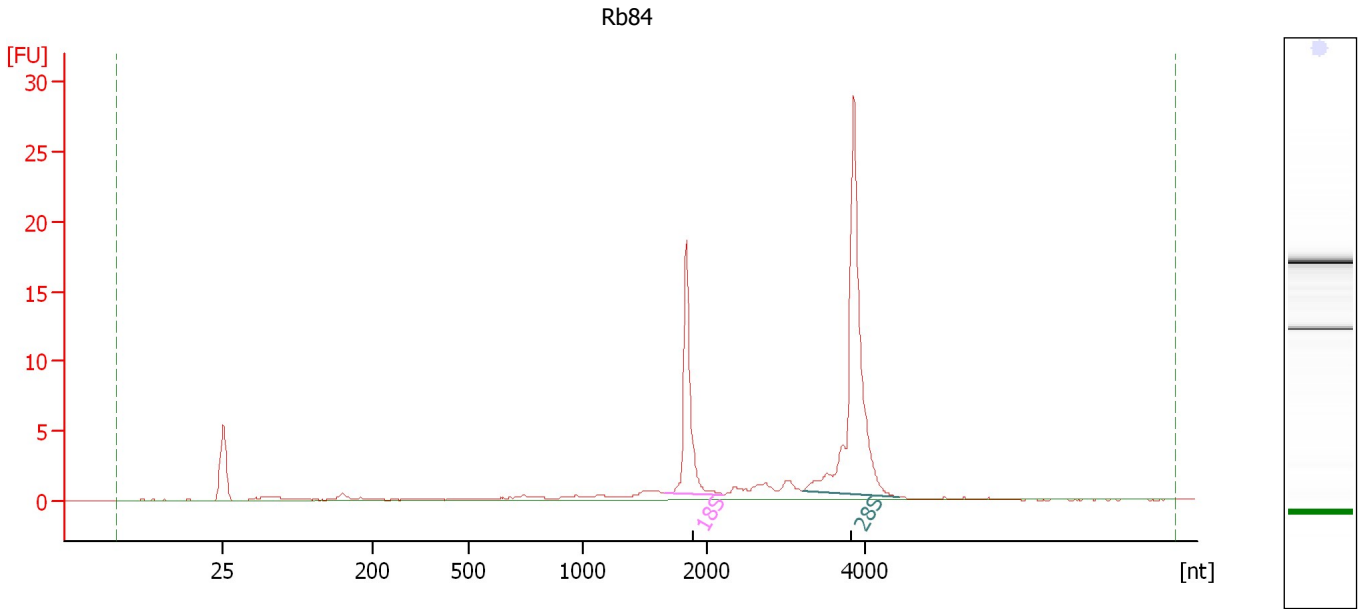
**Fragment table for sample 9 : Rb90**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	2,018	13.0	18.0
28S	3,589	4,293	27.3	37.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Rb84**

RNA Area: 69.4                      RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 45 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.3              Result Flagging Label: RIN: 9.90

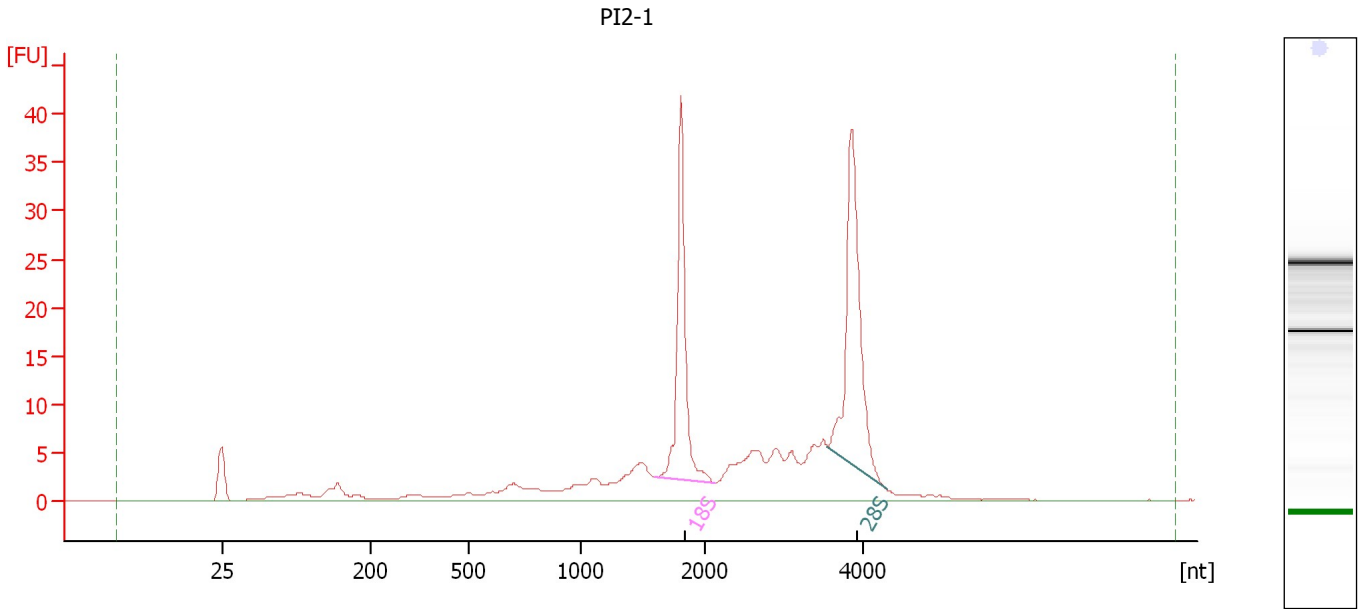
**Fragment table for sample 10 : Rb84**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,660	2,206	14.3	20.6
28S	3,212	4,422	32.5	46.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
 Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : PI2-1**

RNA Area:	217.4	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	140 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]:	1.2	Result Flagging Label:	RIN: 8.10

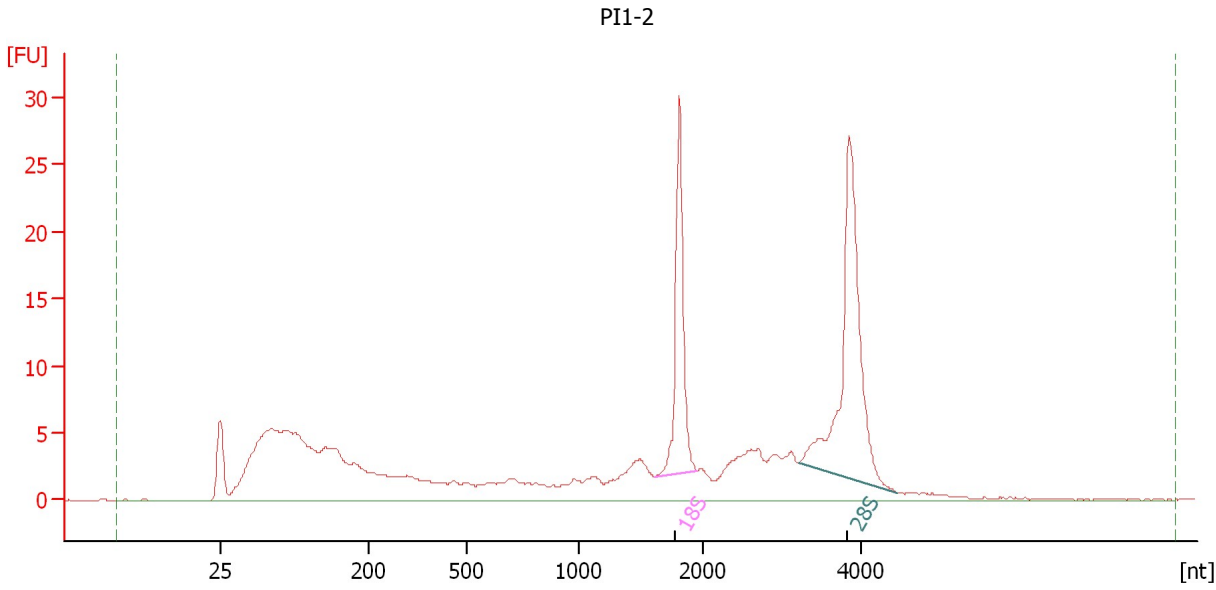
**Fragment table for sample 11 : PI2-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	2,111	37.2	17.1
28S	3,555	4,304	45.8	21.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : PI1-2**

RNA Area:	261.5	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	169 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]:	1.8	Result Flagging Label:	RIN: 7.60

**Fragment table for sample 12 : PI1-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	1,949	24.0	9.2
28S	3,216	4,471	44.0	16.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_001.xad

Created: 6/2/2014 9:36:12 AM  
Modified: 6/2/2014 10:00:07 AM

**Gel Image**

