

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...expert\data\2017-05-18\2017-05-18\_001\_HiSeq972\_TotRNAQC.xad

Created: 5/18/2017 3:52:15 PM  
Modified: 5/18/2017 4:24:14 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)

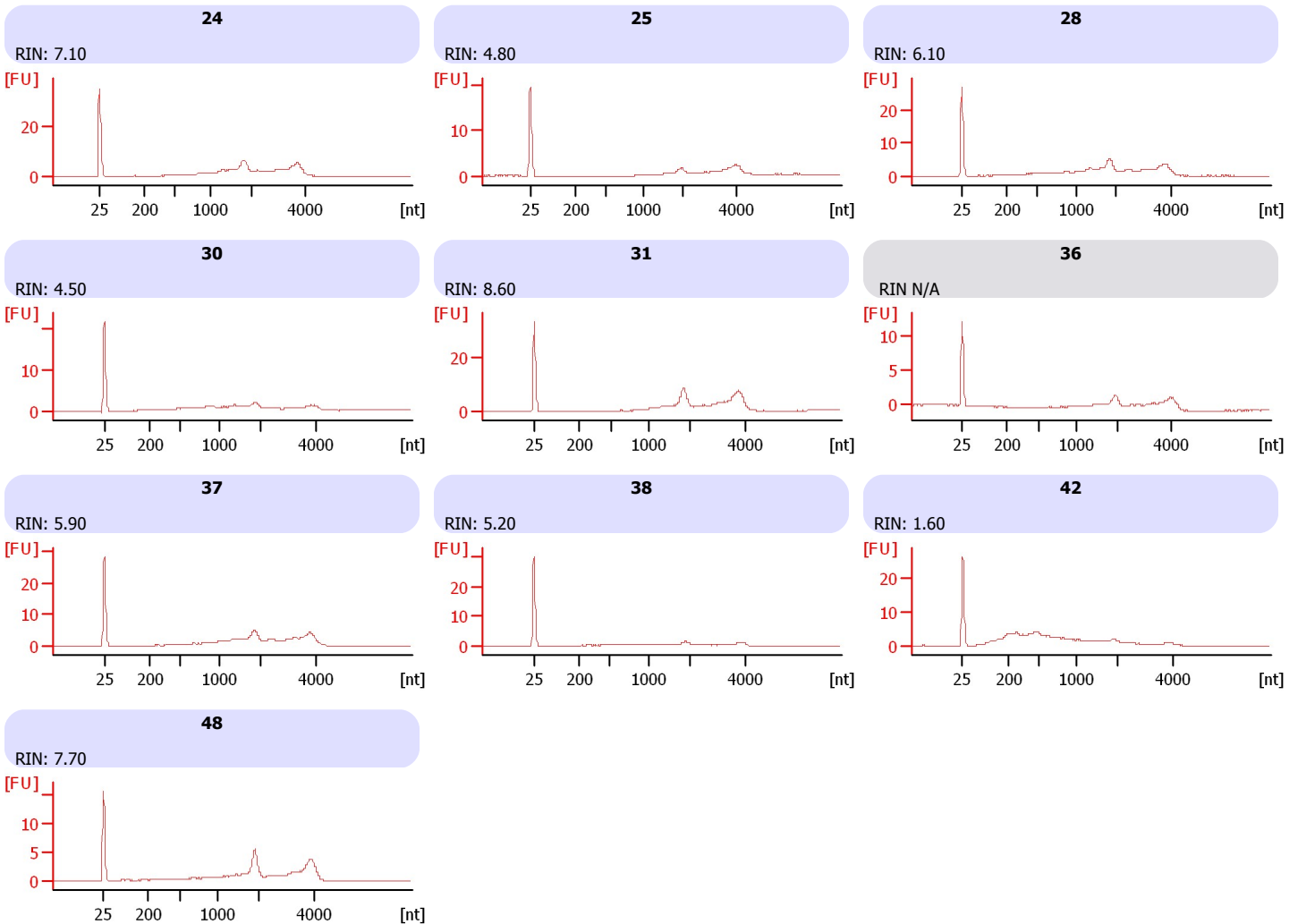
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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

Sample Name	Sample Comment	Status	Result Label	Result Color
24		✓	RIN: 7.10	
25		✓	RIN: 4.80	
28		✓	RIN: 6.10	
30		✓	RIN: 4.50	
31		✓	RIN: 8.60	
36		✓	RIN N/A	
37		✓	RIN: 5.90	
38		✓	RIN: 5.20	
42		✓	RIN: 1.60	
48		✓	RIN: 7.70	
Ladder		✓	All Other Samples	

**Chip Lot #**

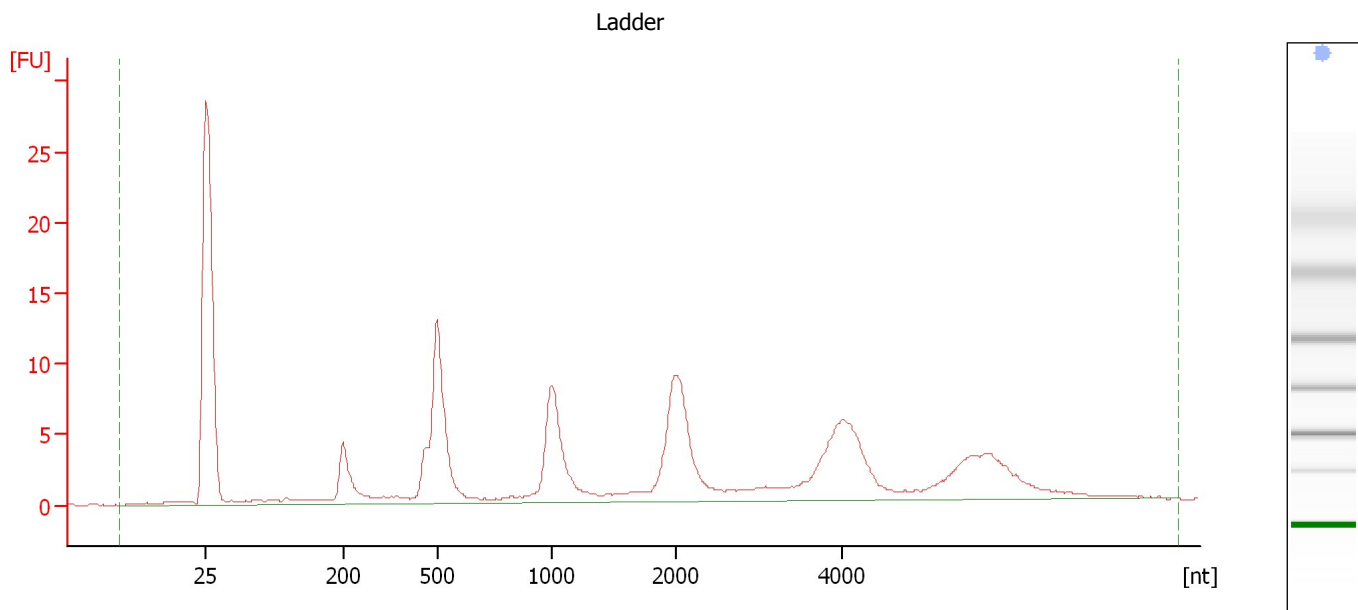
**Reagent Kit Lot #**

**Chip Comments :**

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**Electropherogram Summary**



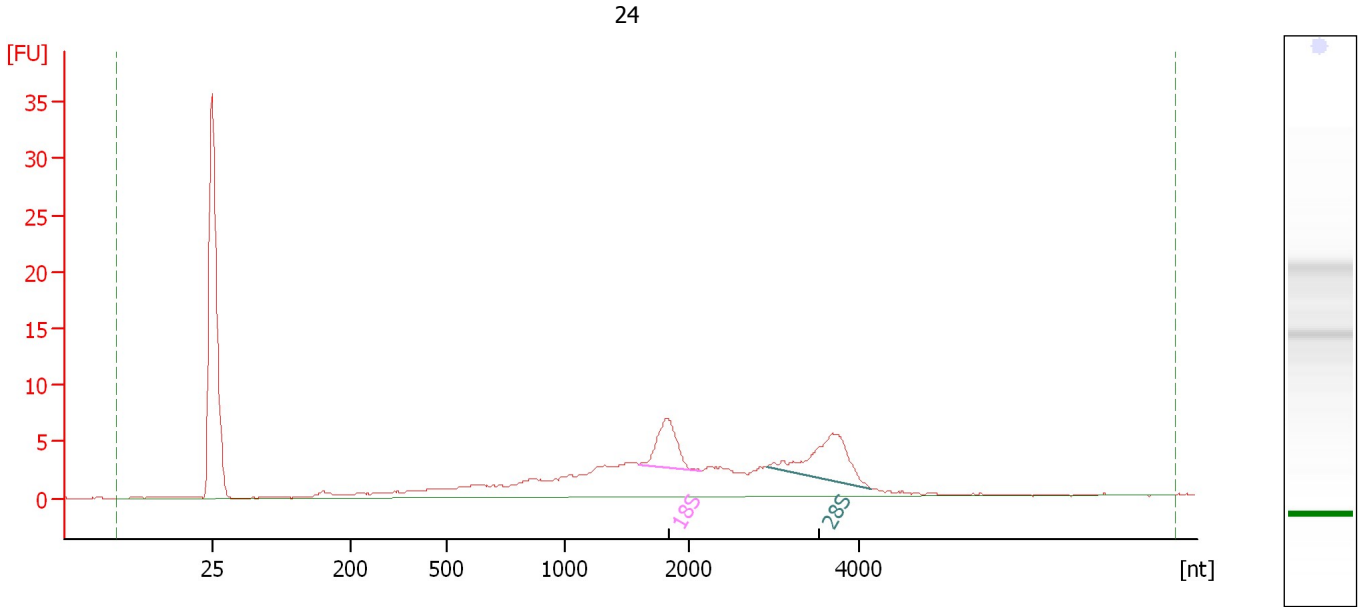
**Overall Results for Ladder**

RNA Area:	157.2	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

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 24**

RNA Area:	125.6	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	799 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]:	1.6	Result Flagging Label:	RIN: 7.10

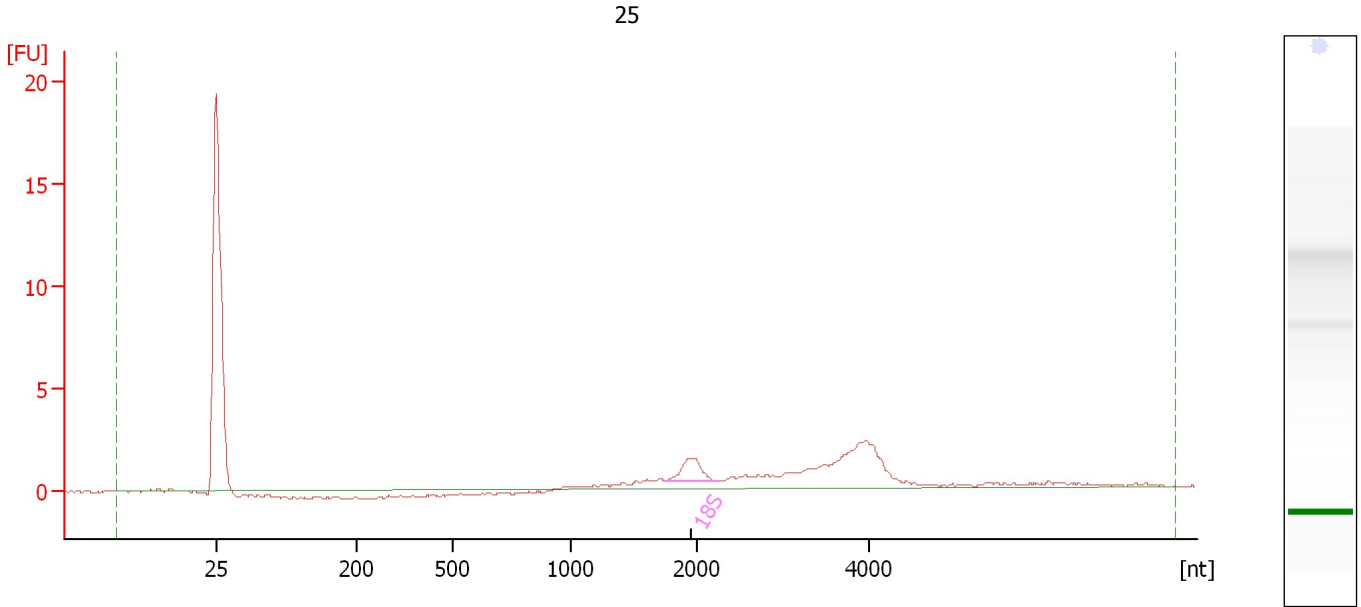
**Fragment table for sample 1 : 24**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	2,145	10.0	7.9
28S	2,914	4,137	15.8	12.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 25**

RNA Area:	26.6	RNA Integrity Number (RIN):	4.8 (B.02.08)
RNA Concentration:	169 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: 4.80

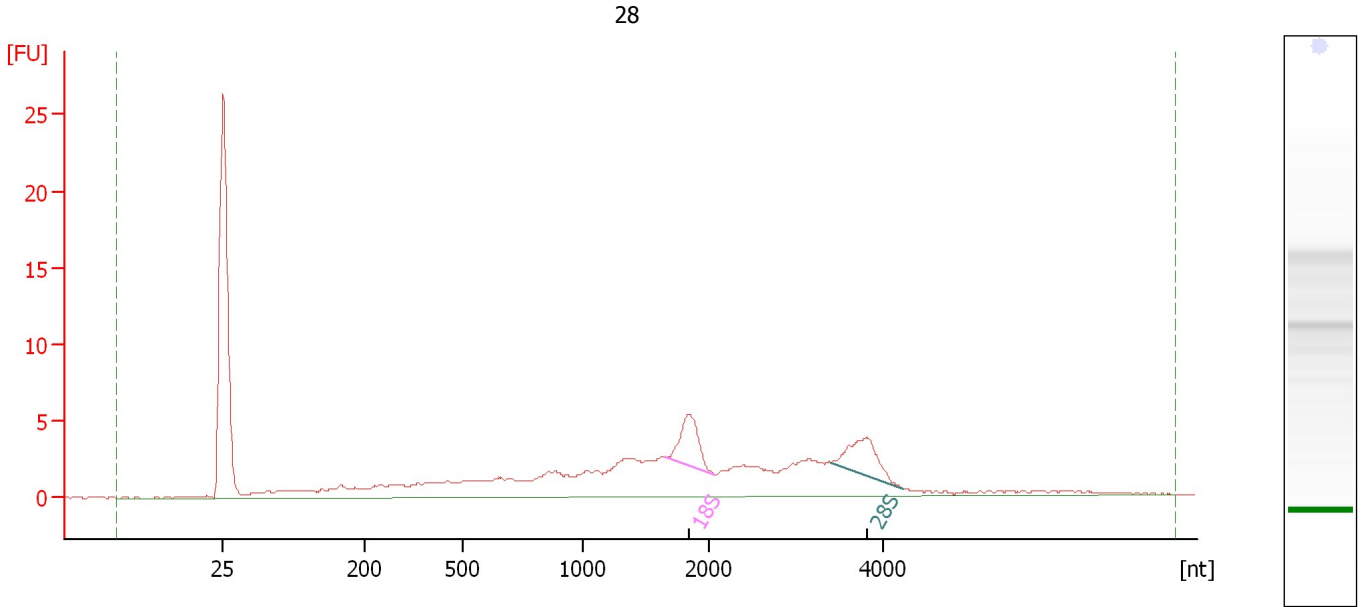
**Fragment table for sample 2 : 25**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	2,247	2.6	9.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...expert\data\2017-05-18\2017-05-18\_001\_HiSeq972\_TotRNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 28**

RNA Area:	115.8	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	737 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]:	1.0	Result Flagging Label:	RIN: 6.10

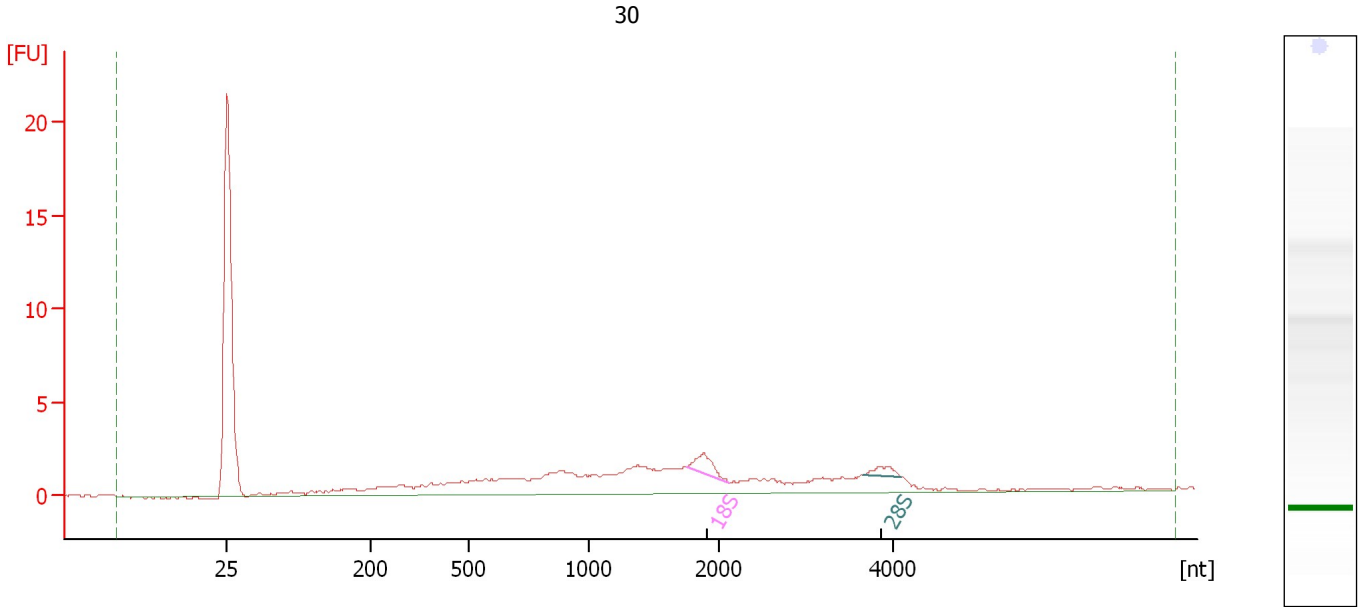
**Fragment table for sample 3 : 28**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	2,064	7.0	6.1
28S	3,410	4,237	6.8	5.8

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 30**

RNA Area:	57.3	RNA Integrity Number (RIN):	4.5 (B.02.08)
RNA Concentration:	365 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]:	0.5	Result Flagging Label:	RIN: 4.50

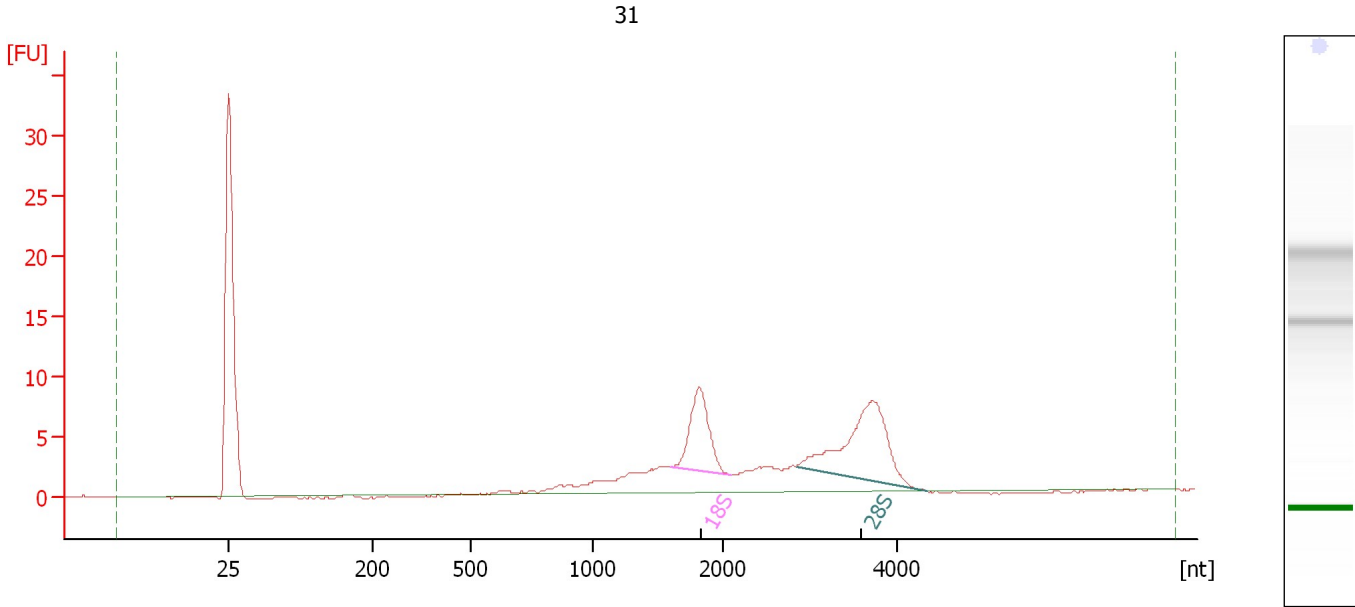
**Fragment table for sample 4 : 30**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,763	2,128	2.1	3.7
28S	3,671	4,100	1.0	1.8

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 31**

RNA Area:	93.7	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	596 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]:	1.8	Result Flagging Label:	RIN: 8.60

**Fragment table for sample 5 : 31**

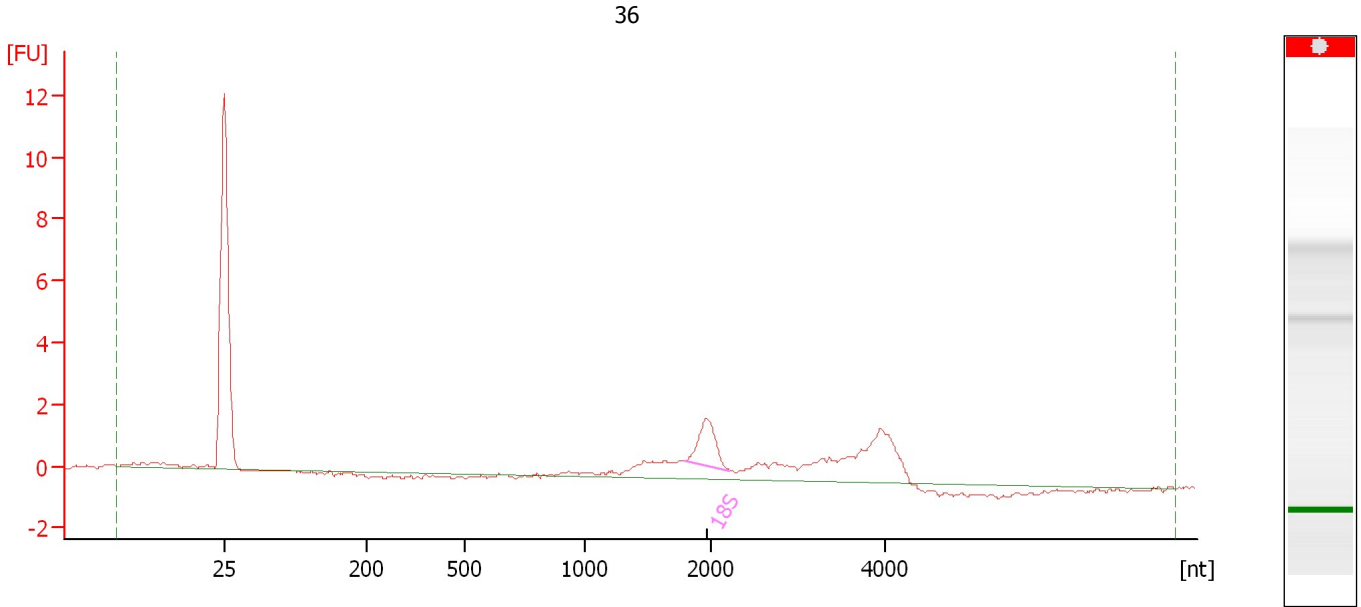
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	2,093	15.1	16.2
28S	2,849	4,349	26.9	28.7



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...expert\data\2017-05-18\2017-05-18\_001\_HiSeq972\_TotRNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 36**

RNA Area:	20.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	131 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

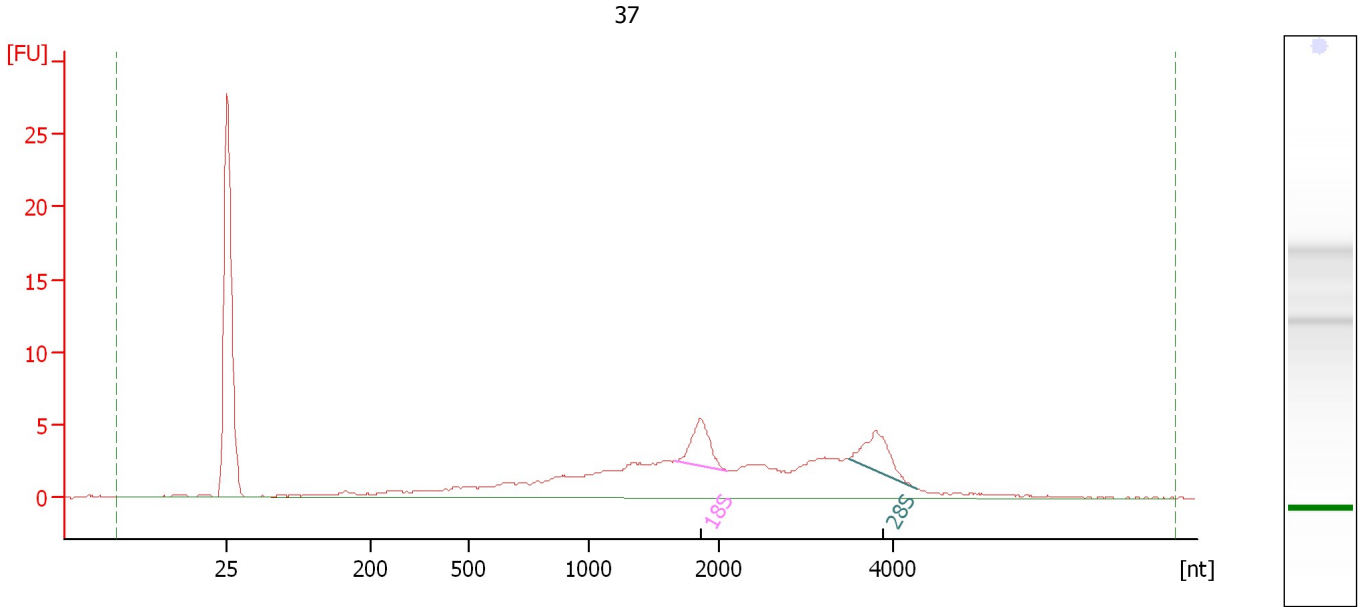
**Fragment table for sample 6 : 36**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,785	2,200	3.1	14.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...expert\data\2017-05-18\2017-05-18\_001\_HiSeq972\_TotRNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 37**

RNA Area:	107.1	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	681 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]:	1.0	Result Flagging Label:	RIN: 5.90

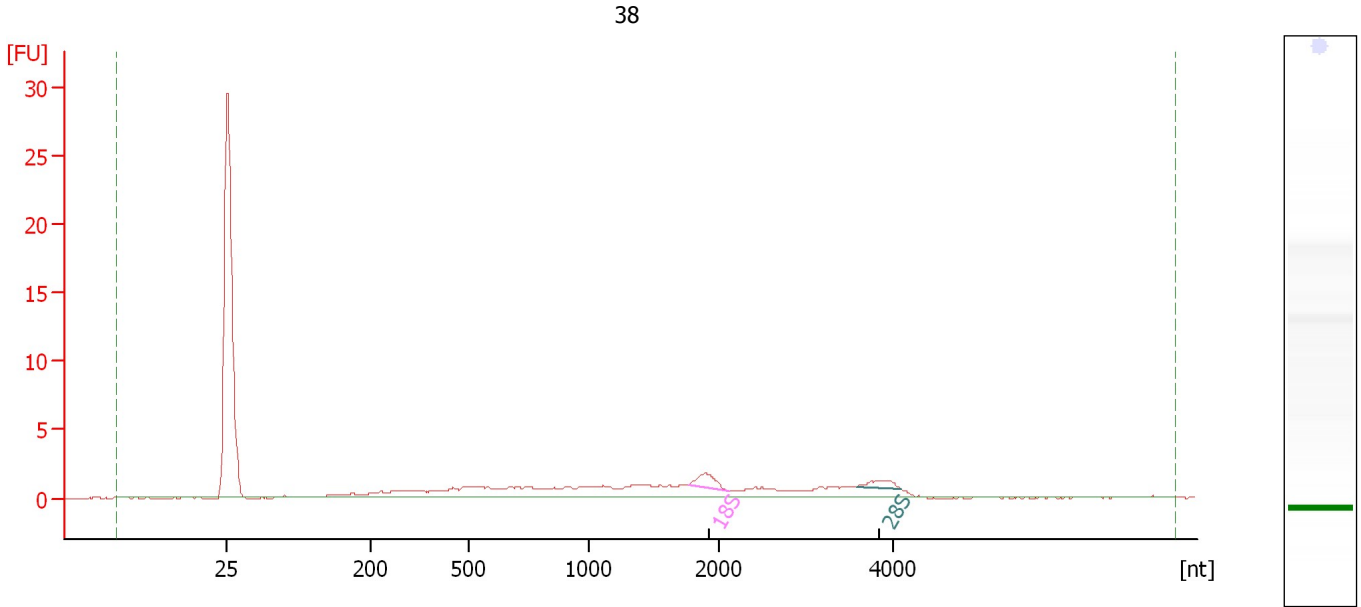
**Fragment table for sample 7 : 37**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	2,104	6.9	6.4
28S	3,500	4,272	6.8	6.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 38**

RNA Area:	39.9	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	254 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]:	0.6	Result Flagging Label:	RIN: 5.20

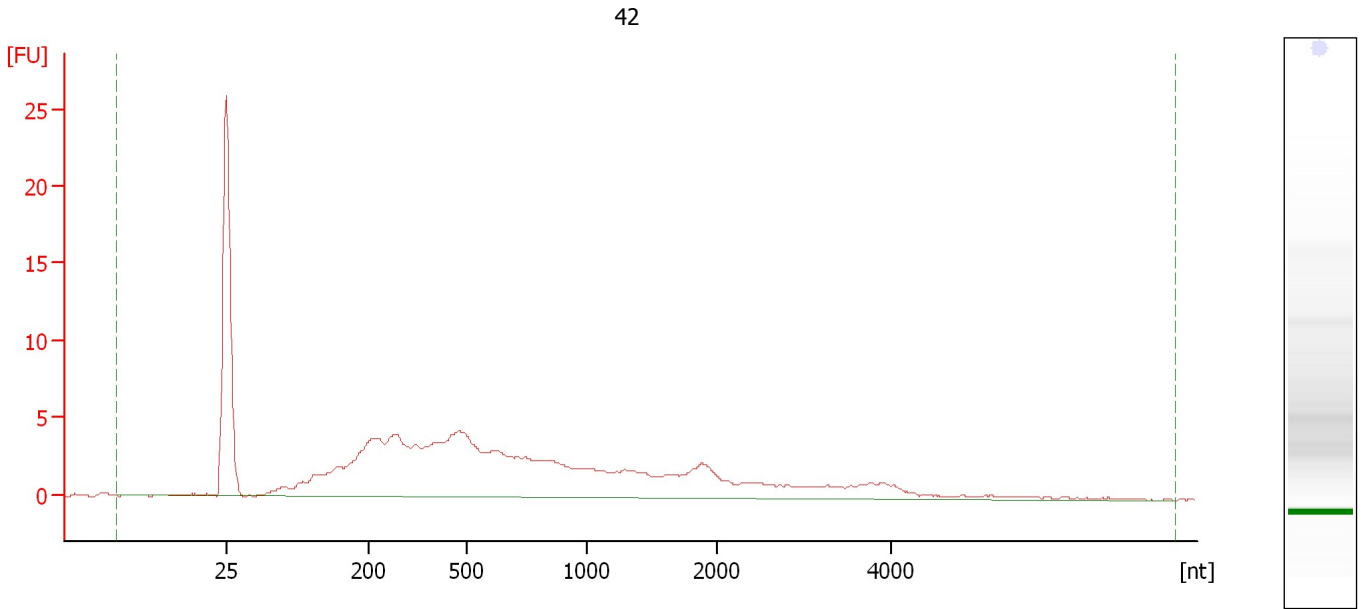
**Fragment table for sample 8 : 38**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,771	2,128	2.1	5.2
28S	3,598	4,100	1.3	3.3

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**Electropherogram Summary Continued ...**



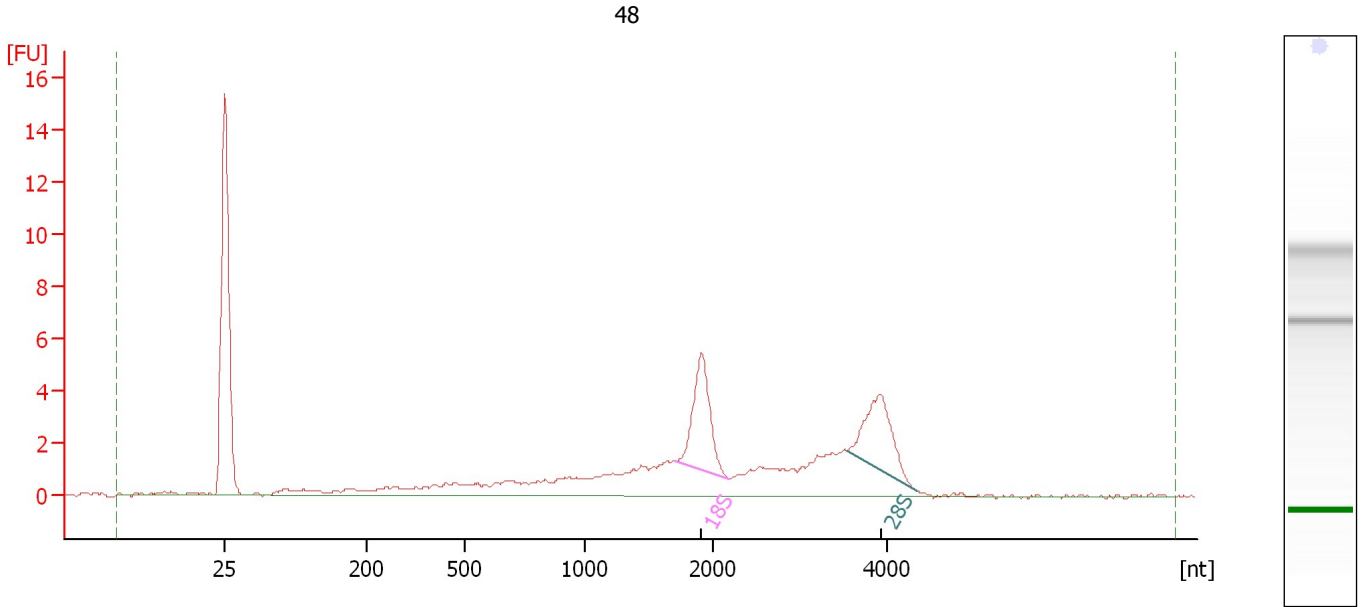
**Overall Results for sample 9 : 42**

RNA Area:	150.5	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	957 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: 1.60

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 48**

RNA Area:	67.6	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	430 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]:	0.9	Result Flagging Label:	RIN: 7.70

**Fragment table for sample 10 : 48**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,702	2,164	8.6	12.7
28S	3,541	4,328	7.5	11.1

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