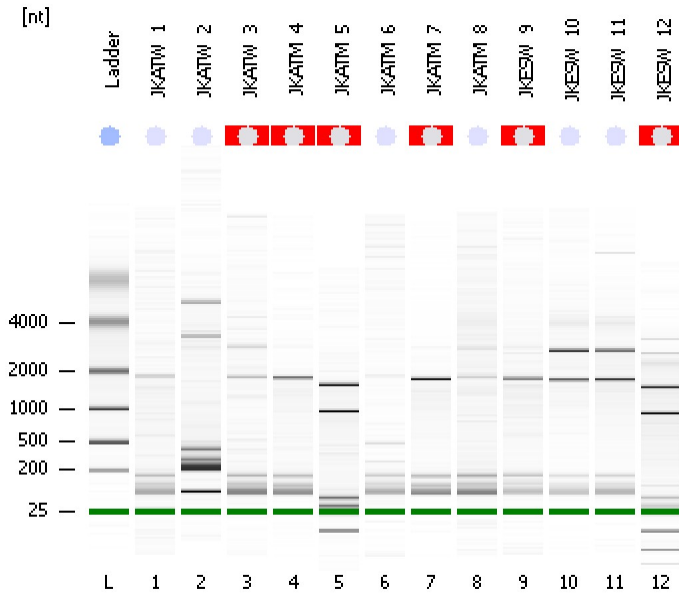


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

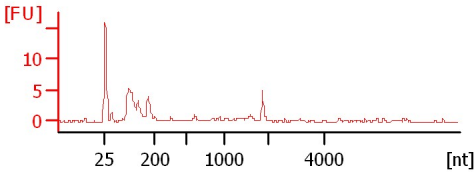
Assay Information:

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

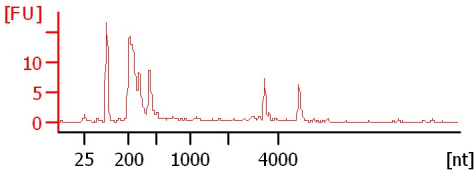
Chip Information:

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

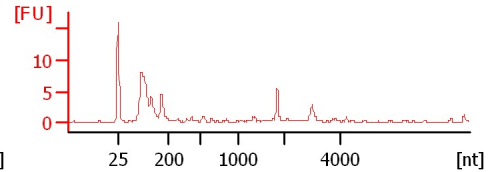
**JKATW\_1**  
HiSeq\_1373 RNA QC  
RIN: 5.60



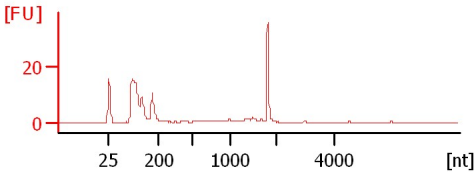
**JKATW\_2**  
HiSeq\_1373 RNA QC  
RIN: 2.20



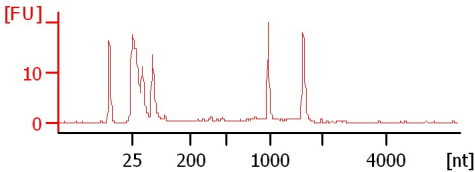
**JKATW\_3**  
HiSeq\_1373 RNA QC  
RIN N/A



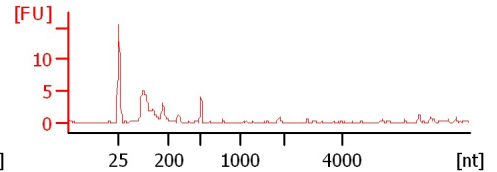
**JKATM\_4**  
HiSeq\_1373 RNA QC  
RIN N/A



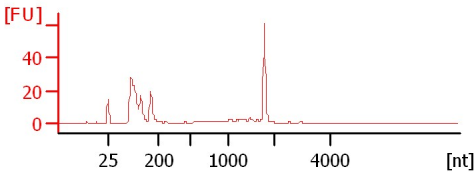
**JKATM\_5**  
HiSeq\_1373 RNA QC  
RIN N/A



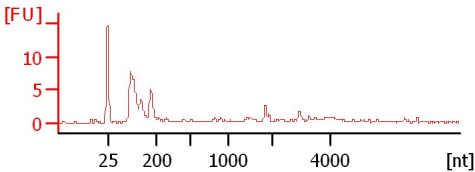
**JKATM\_6**  
HiSeq\_1373 RNA QC  
RIN: 2.70



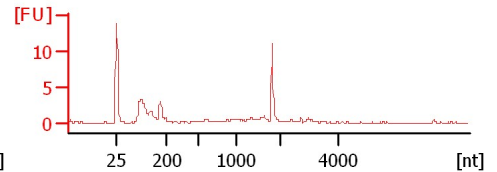
**JKATM\_7**  
HiSeq\_1373 RNA QC  
RIN N/A



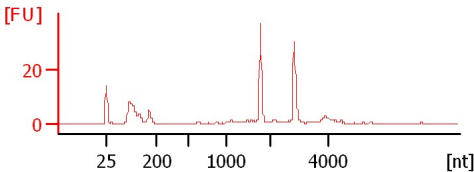
**JKATM\_8**  
HiSeq\_1373 RNA QC  
RIN: 3.10



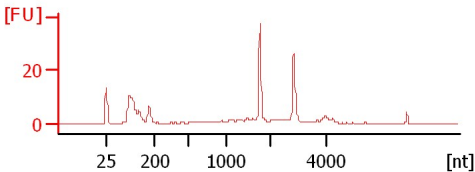
**JKESW\_9**  
HiSeq\_1373 RNA QC  
RIN N/A



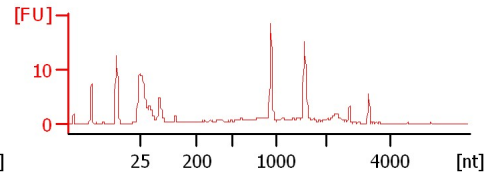
**JKESW\_10**  
HiSeq\_1373 RNA QC  
RIN: 7.30



**JKESW\_11**  
HiSeq\_1373 RNA QC  
RIN: 6.60



**JKESW\_12**  
HiSeq\_1373 RNA QC  
RIN N/A



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
 Modified: 5/14/2018 2:15:06 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
JKATW_1	HiSeq_1373 RNA QC	✓	RIN: 5.60	
JKATW_2	HiSeq_1373 RNA QC	✓	RIN: 2.20	
JKATW_3	HiSeq_1373 RNA QC	✓	RIN N/A	
JKATM_4	HiSeq_1373 RNA QC	✓	RIN N/A	
JKATM_5	HiSeq_1373 RNA QC	✓	RIN N/A	
JKATM_6	HiSeq_1373 RNA QC	✓	RIN: 2.70	
JKATM_7	HiSeq_1373 RNA QC	✓	RIN N/A	
JKATM_8	HiSeq_1373 RNA QC	✓	RIN: 3.10	
JKESW_9	HiSeq_1373 RNA QC	✓	RIN N/A	
JKESW_10	HiSeq_1373 RNA QC	✓	RIN: 7.30	
JKESW_11	HiSeq_1373 RNA QC	✓	RIN: 6.60	
JKESW_12	HiSeq_1373 RNA QC	✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

## 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 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

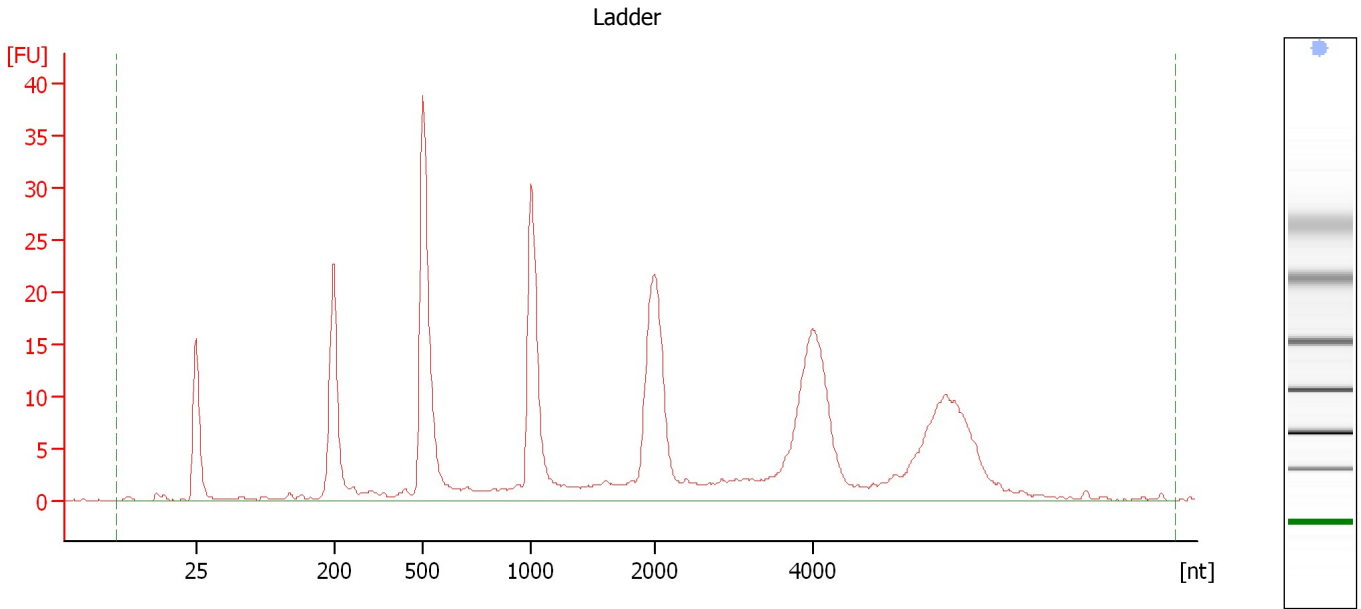
### Ladder

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\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary**



**Overall Results for Ladder**

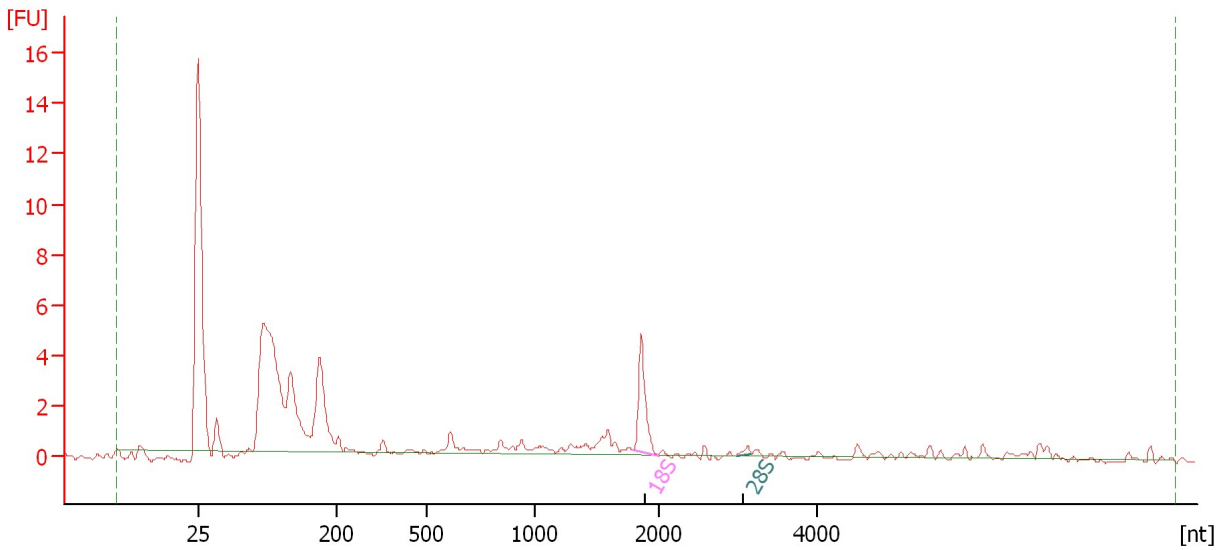
RNA Area:	348.3	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
 Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**

JKATW\_1 [ HiSeq\_1373 RNA QC ]



**Overall Results for sample 1 : JKATW\_1**

RNA Area:	47.8	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	21 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]:	0.0	Result Flagging Label:	RIN: 5.60

**Fragment table for sample 1 : JKATW\_1**

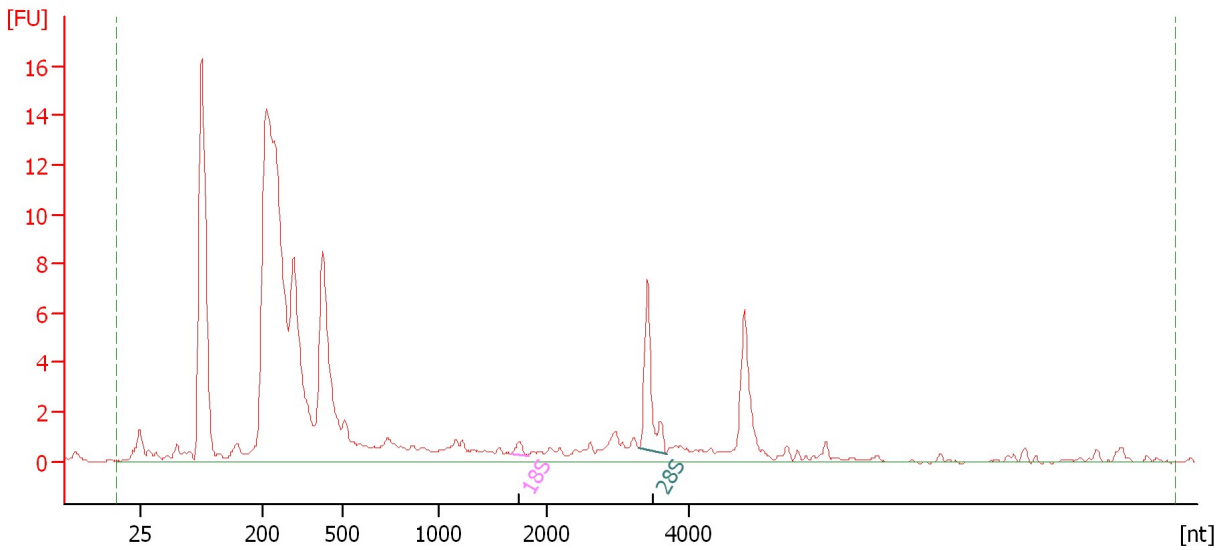
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,784	2,002	3.8	7.9
28S	2,984	3,172	0.2	0.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**

JKATW\_2 [ HiSeq\_1373 RNA QC ]



**Overall Results for sample 2 : JKATW\_2**

RNA Area: 161.8                      RNA Integrity Number (RIN): 2.2 (B.02.08)  
RNA Concentration: 70 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 12.3              Result Flagging Label: RIN: 2.20

**Fragment table for sample 2 : JKATW\_2**

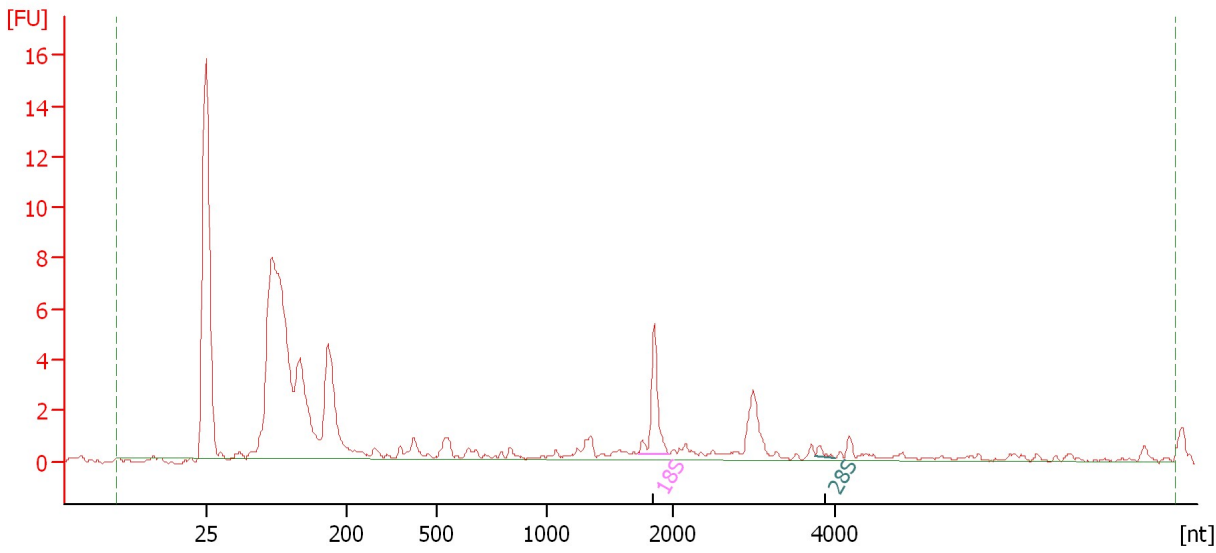
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,667	1,824	0.5	0.3
28S	3,294	3,690	5.7	3.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**

JKATW\_3 [ HiSeq\_1373 RNA QC ]



**Overall Results for sample 3 : JKATW\_3**

RNA Area:	74.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	32 ng/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]:	0.1	Result Flagging Label:	RIN N/A

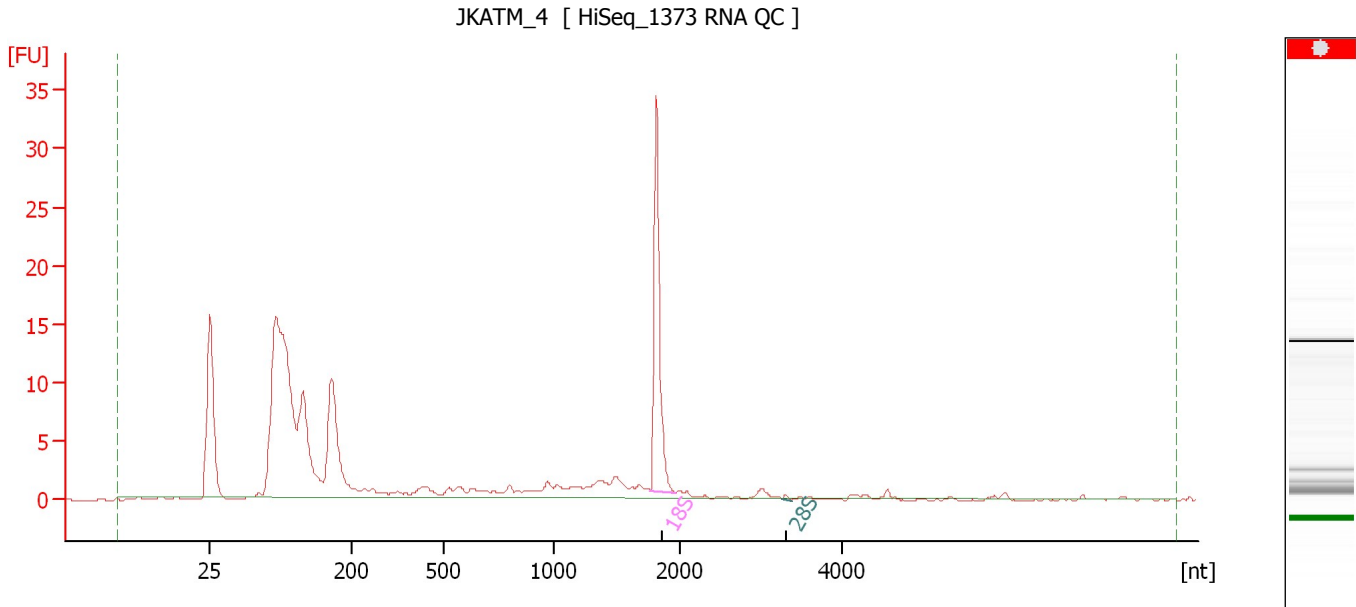
**Fragment table for sample 3 : JKATW\_3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	1,971	4.2	5.7
28S	3,772	4,010	0.3	0.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : JKATM\_4**

RNA Area:	155.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	67 ng/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 4 : JKATM\_4**

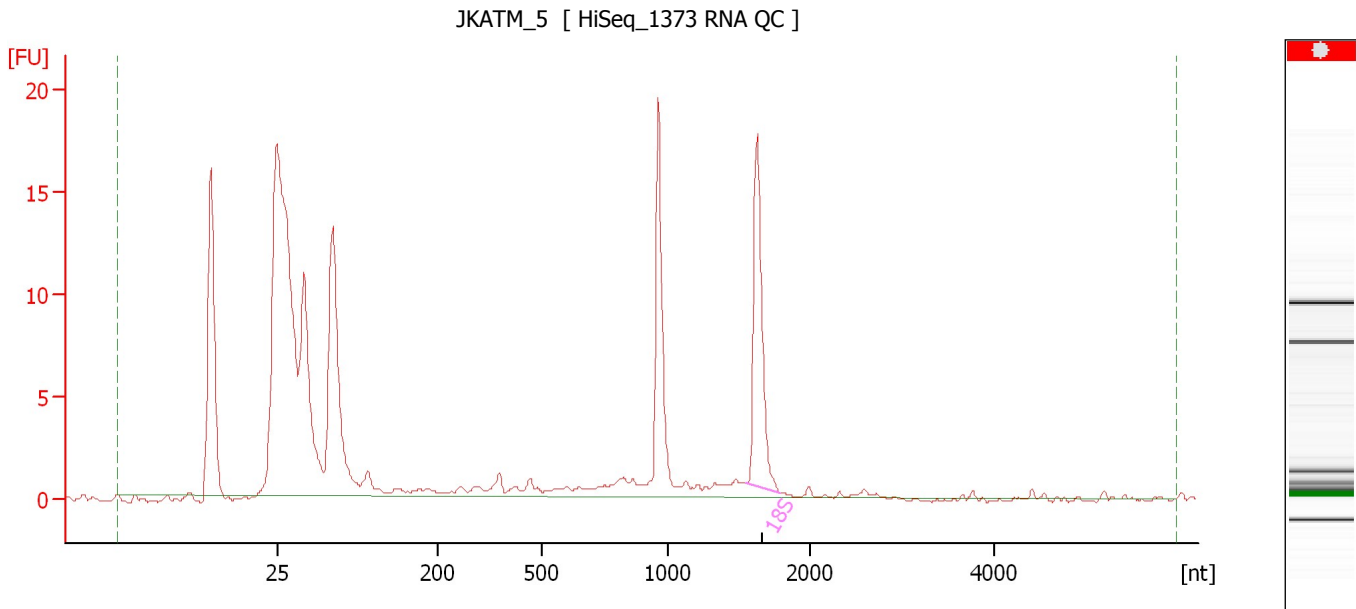
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,761	1,965	22.9	14.8
28S	3,263	3,368	0.2	0.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : JKATM\_5**

RNA Area:	121.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	52 ng/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 5 : JKATM\_5**

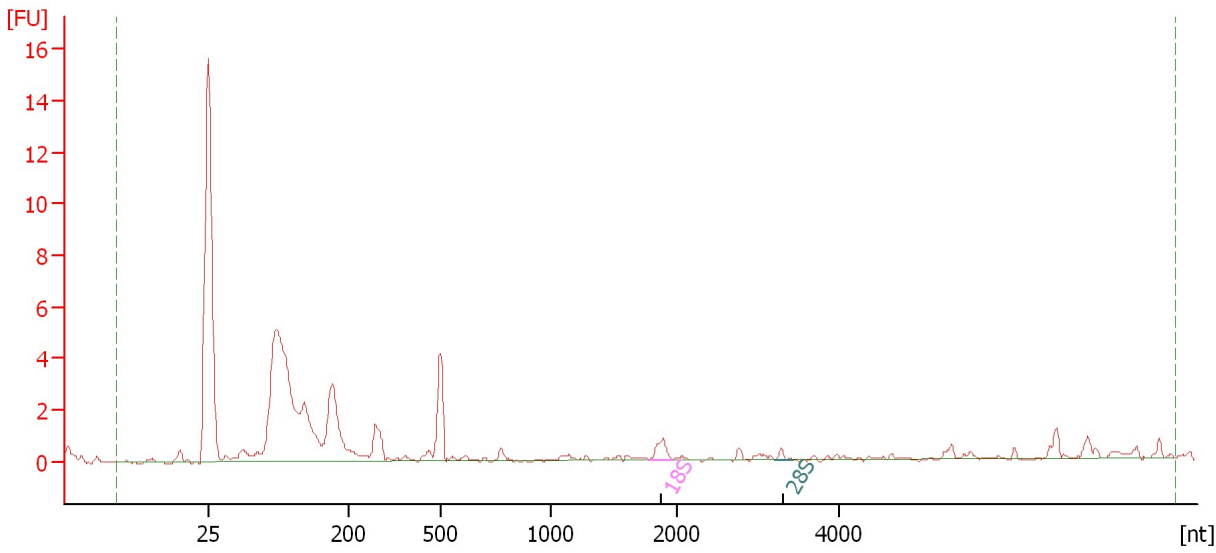
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,795	15.2	12.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**

JKATM\_6 [ HiSeq\_1373 RNA QC ]



**Overall Results for sample 6 : JKATM\_6**

RNA Area: 45.2                      RNA Integrity Number (RIN): 2.7 (B.02.08)  
RNA Concentration: 19 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.3              Result Flagging Label: RIN: 2.70

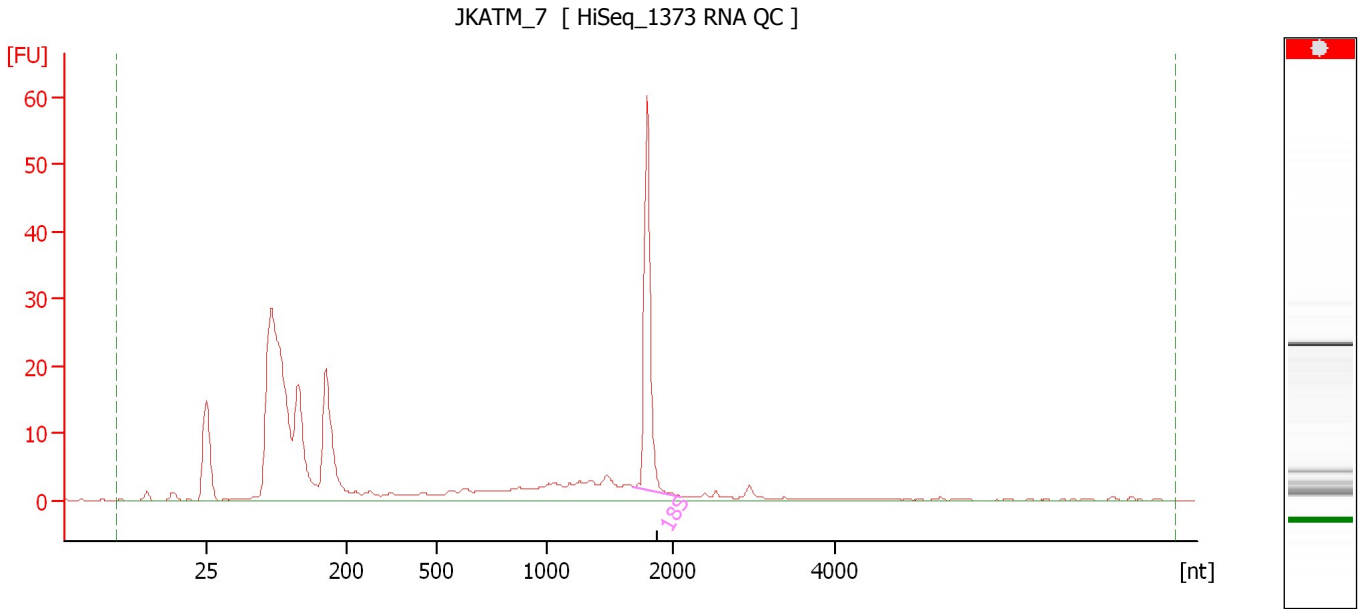
**Fragment table for sample 6 : JKATM\_6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,777	1,964	0.9	2.0
28S	3,212	3,436	0.3	0.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : JKATM\_7**

RNA Area:	299.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	129 ng/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 7 : JKATM\_7**

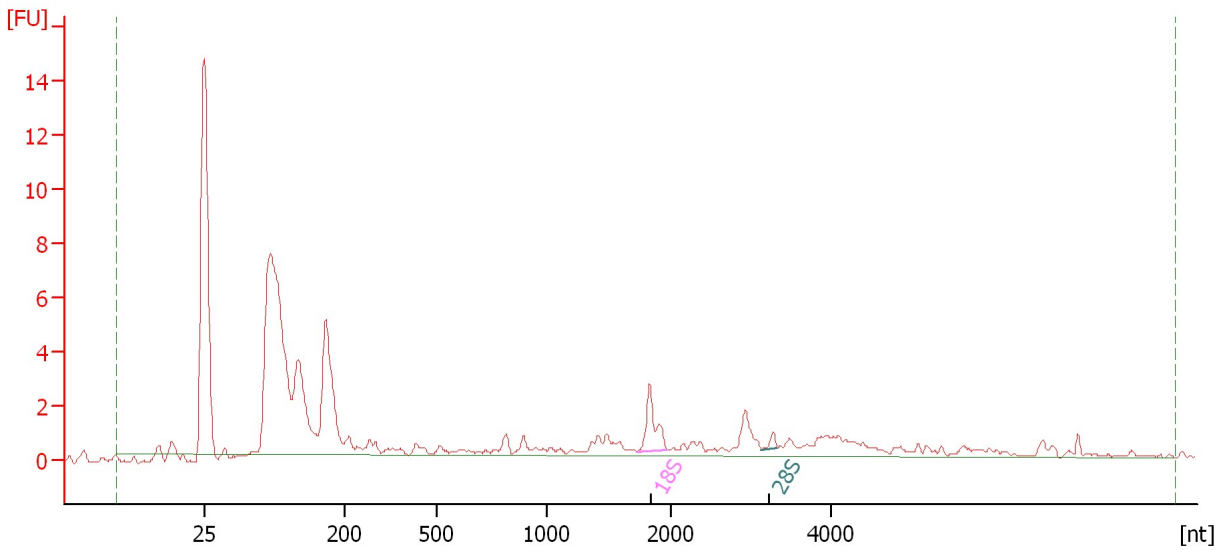
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,681	2,088	41.6	13.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**

JKATM\_8 [ HiSeq\_1373 RNA QC ]



**Overall Results for sample 8 : JKATM\_8**

RNA Area: 72.0                      RNA Integrity Number (RIN): 3.1 (B.02.08)  
RNA Concentration: 31 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.1              Result Flagging Label: RIN: 3.10

**Fragment table for sample 8 : JKATM\_8**

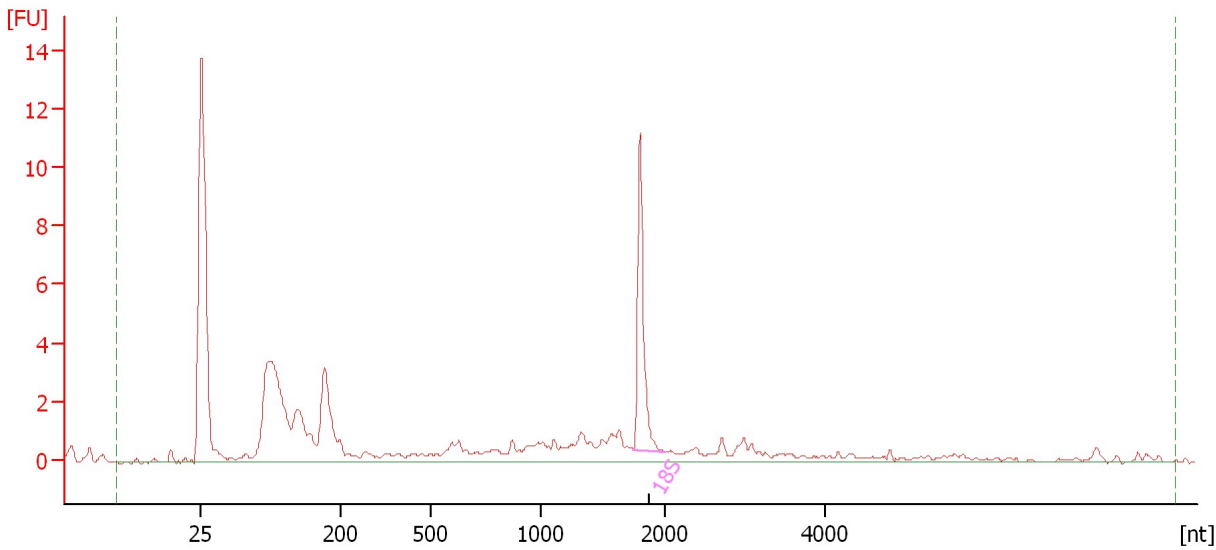
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,731	1,970	2.7	3.8
28S	3,123	3,323	0.3	0.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**

JKESW\_9 [ HiSeq\_1373 RNA QC ]



**Overall Results for sample 9 : JKESW\_9**

RNA Area:	57.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	25 ng/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

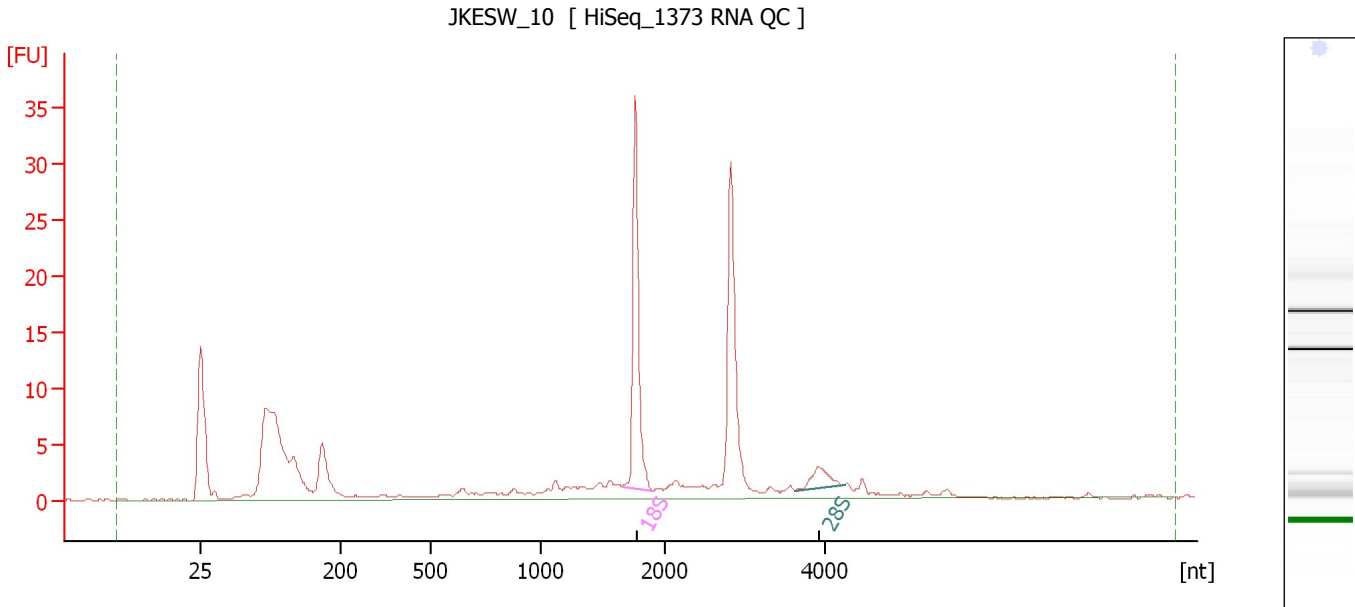
**Fragment table for sample 9 : JKESW\_9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,745	2,005	7.8	13.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : JKESW\_10**

RNA Area:	152.0	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	65 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]:	0.1	Result Flagging Label:	RIN: 7.30

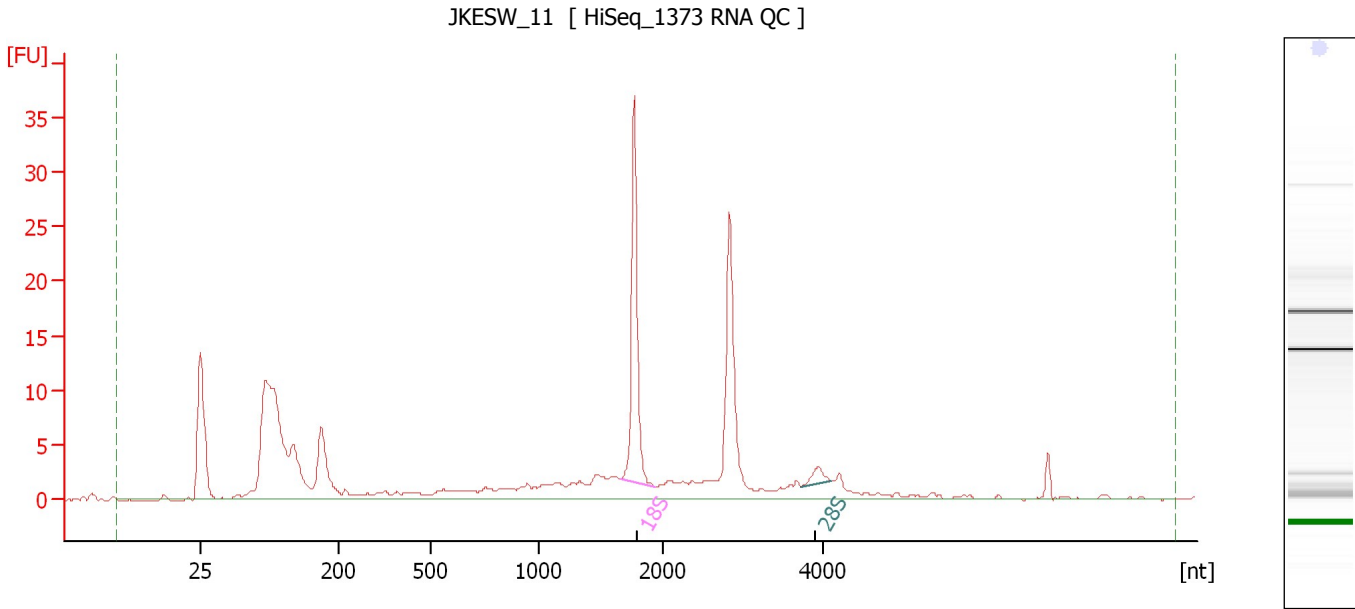
**Fragment table for sample 10 : JKESW\_10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,900	25.3	16.6
28S	3,622	4,251	3.4	2.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : JKESW 11**

RNA Area:	182.8	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	79 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]:	0.1	Result Flagging Label:	RIN: 6.60

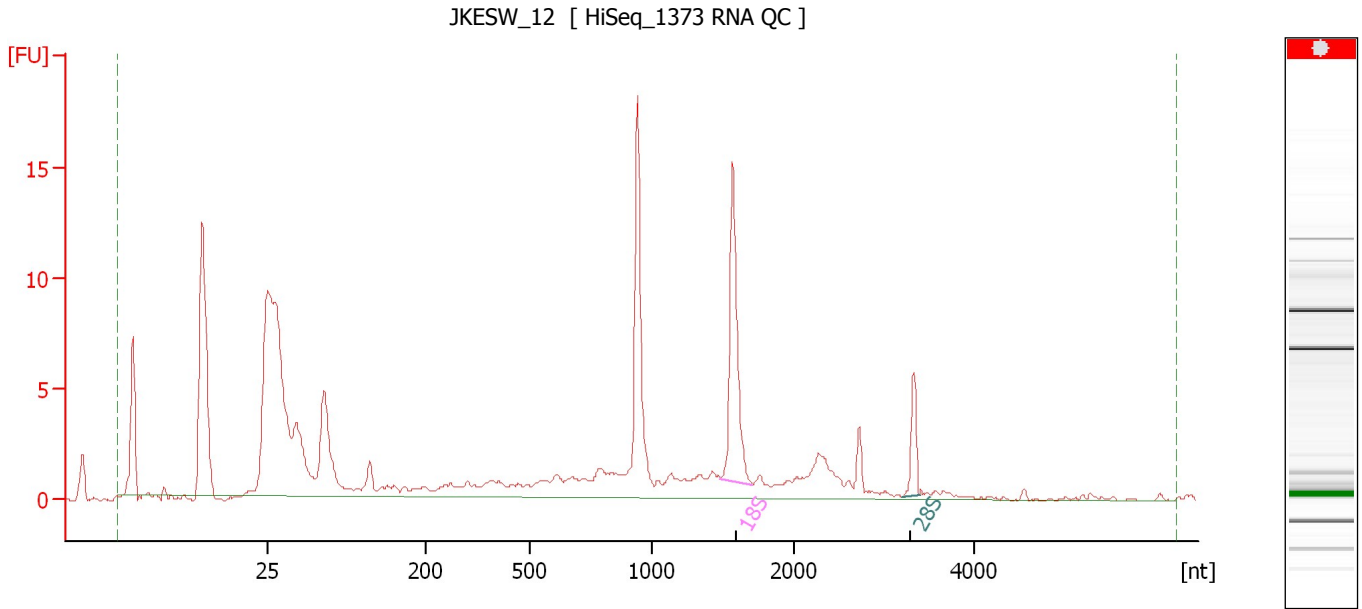
**Fragment table for sample 11 : JKESW 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,933	26.0	14.2
28S	3,745	4,120	1.9	1.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : JKESW\_12**

RNA Area: 120.3                      RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 52 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2              Result Flagging Label: RIN N/A

**Fragment table for sample 12 : JKESW\_12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,483	1,711	12.2	10.2
28S	3,193	3,394	2.4	2.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-14\2018-05-14\_002.xad

Created: 5/14/2018 1:51:18 PM  
Modified: 5/14/2018 2:15:06 PM

**Gel Image**

