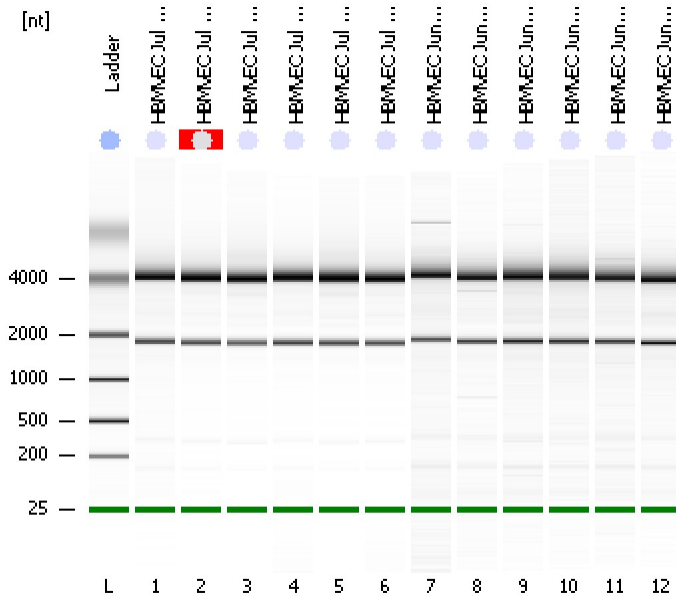


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
Modified: 8/14/2014 3:24:14 PM

Electrophoresis File Run Summary



Instrument Information:

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

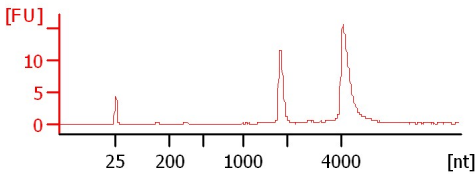
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

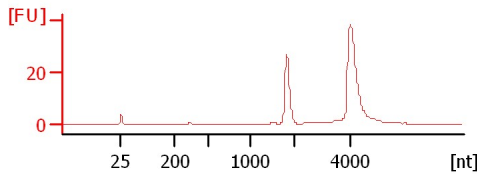
Chip Information:

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

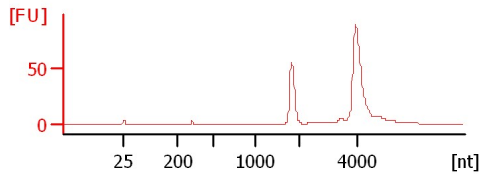
**HBMVEC Jul M1**  
RIN:10



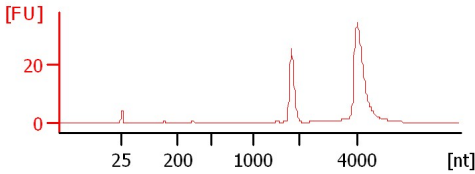
**HBMVEC Jul M2**  
RIN N/A



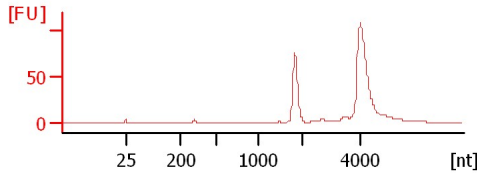
**HBMVEC Jul M3**  
RIN:10



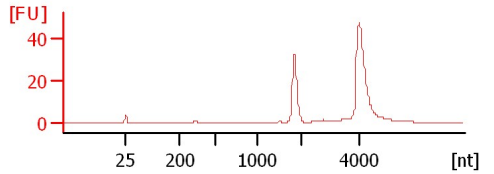
**HBMVEC Jul TL1**  
RIN:10



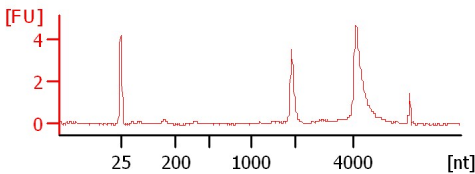
**HBMVEC Jul TL2**  
RIN:10



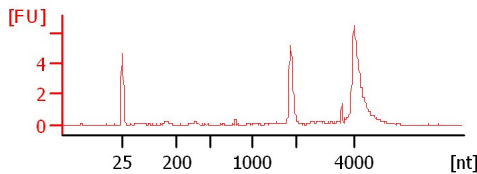
**HBMVEC Jul TL3**  
RIN:10



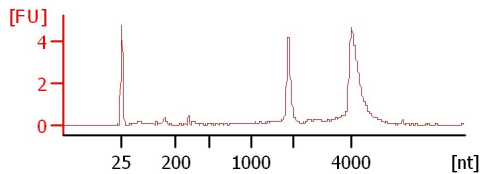
**HBMVEC Jun M1**  
RIN:10



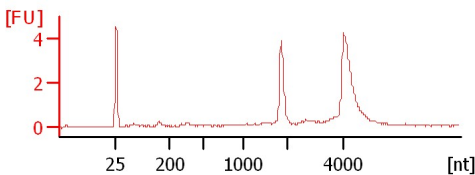
**HBMVEC Jun M2**  
RIN:10



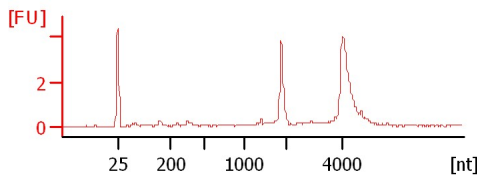
**HBMVEC Jun M3**  
RIN: 9.60



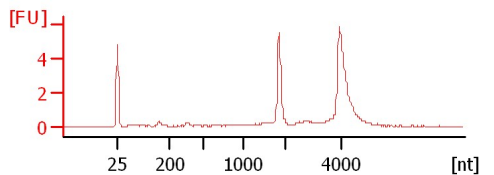
**HBMVEC Jun TL1**  
RIN: 9.80



**HBMVEC Jun TL2**  
RIN: 9.50



**HBMVEC Jun TL3**  
RIN: 9.50



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
Modified: 8/14/2014 3:24:14 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
HBMVEC Jul M1		✓	RIN:10	
HBMVEC Jul M2		✓	RIN N/A	
HBMVEC Jul M3		✓	RIN:10	
HBMVEC Jul TL1		✓	RIN:10	
HBMVEC Jul TL2		✓	RIN:10	
HBMVEC Jul TL3		✓	RIN:10	
HBMVEC Jun M1		✓	RIN:10	
HBMVEC Jun M2		✓	RIN:10	
HBMVEC Jun M3		✓	RIN: 9.60	
HBMVEC Jun TL1		✓	RIN: 9.80	
HBMVEC Jun TL2		✓	RIN: 9.50	
HBMVEC Jun TL3		✓	RIN: 9.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
Modified: 8/14/2014 3:24:14 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

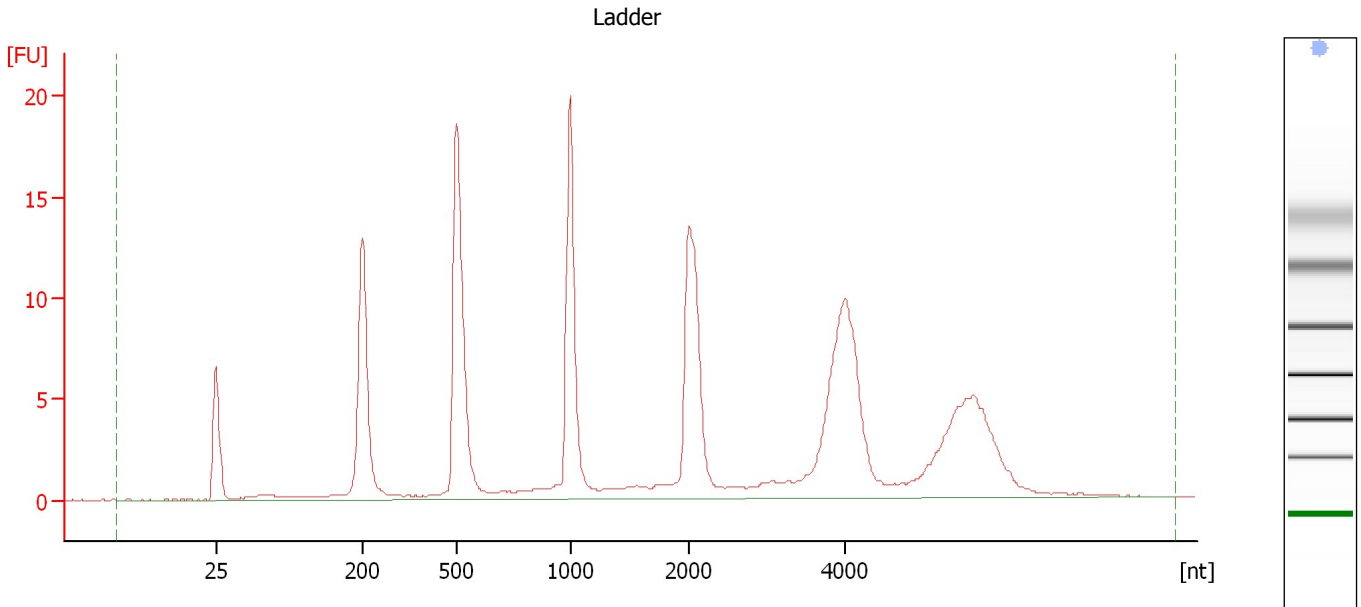
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary**



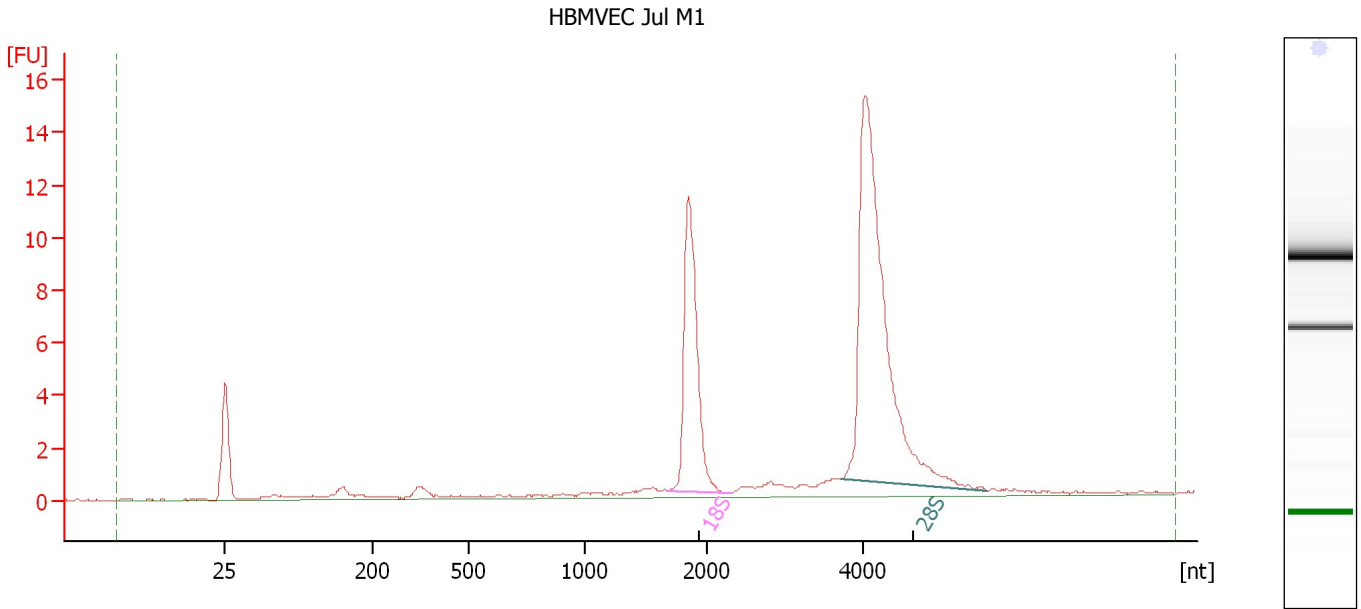
**Overall Results for Ladder**

RNA Area:	168.7	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:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HBMVEC Jul M1**

RNA Area:	74.5	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	66 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:10

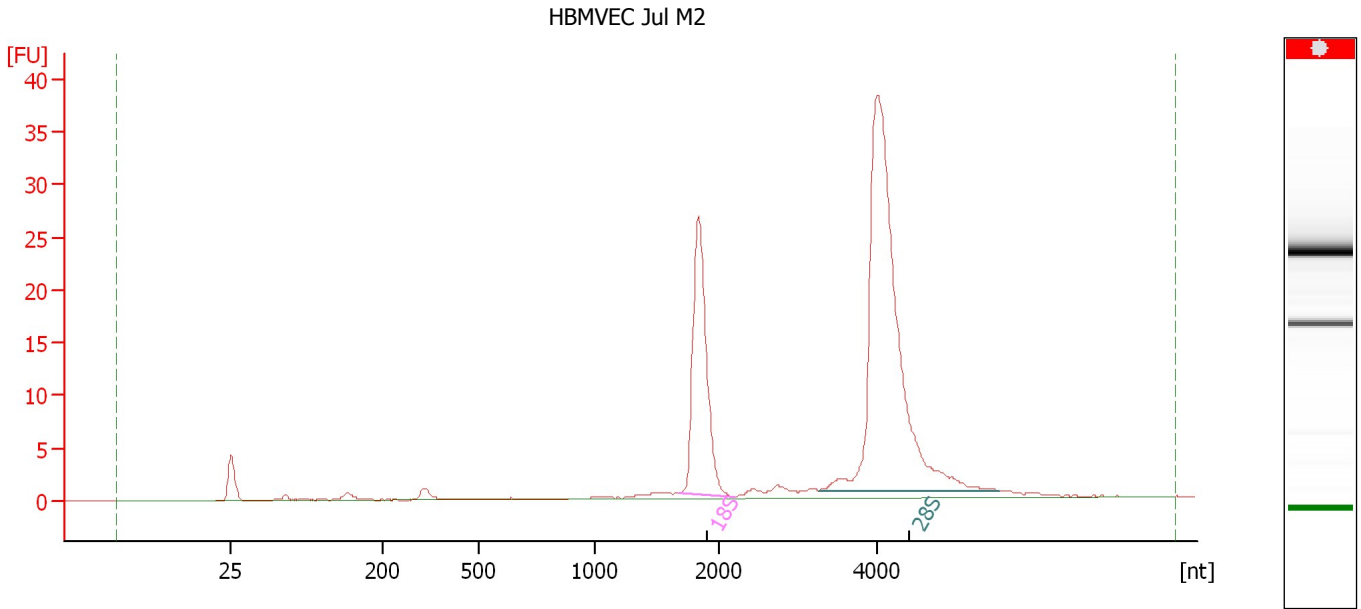
**Fragment table for sample 1 : HBMVEC Jul M1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	2,307	16.8	22.5
28S	3,705	5,563	36.0	48.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HBMVEC Jul M2**

RNA Area:	168.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	150 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]:	2.4	Result Flagging Label:	RIN N/A

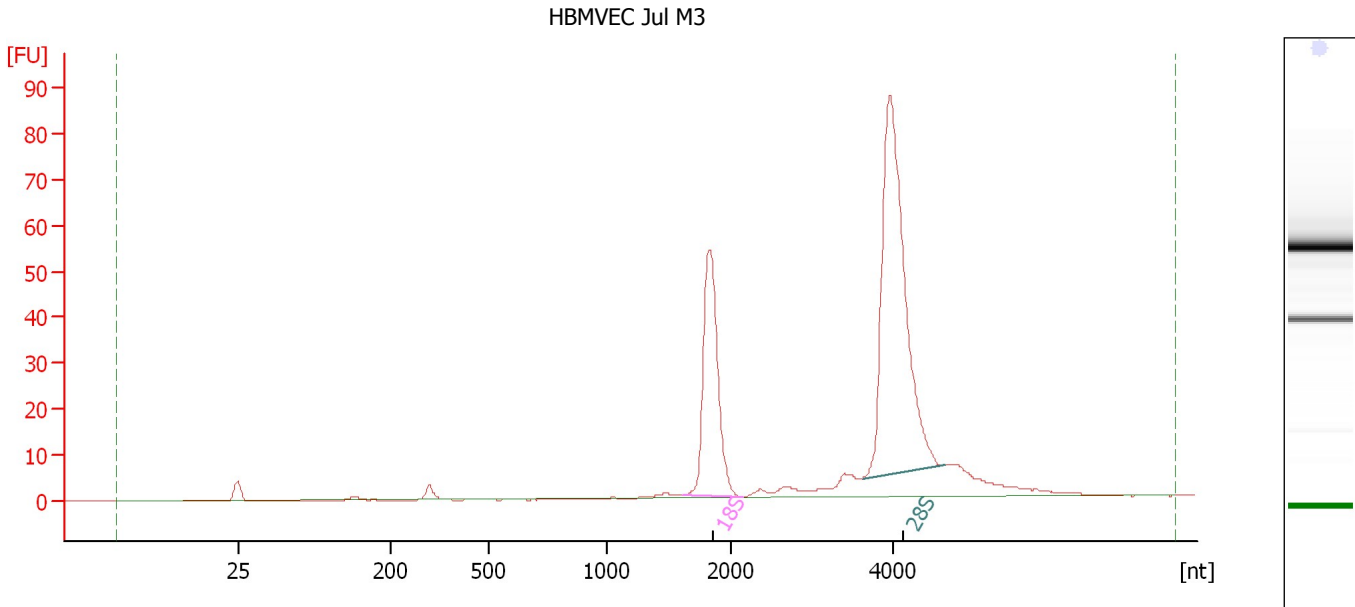
**Fragment table for sample 2 : HBMVEC Jul M2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	2,216	41.3	24.5
28S	3,262	5,527	99.4	59.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HBMVEC Jul M3**

RNA Area:	367.4	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	327 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]:	2.0	Result Flagging Label:	RIN:10

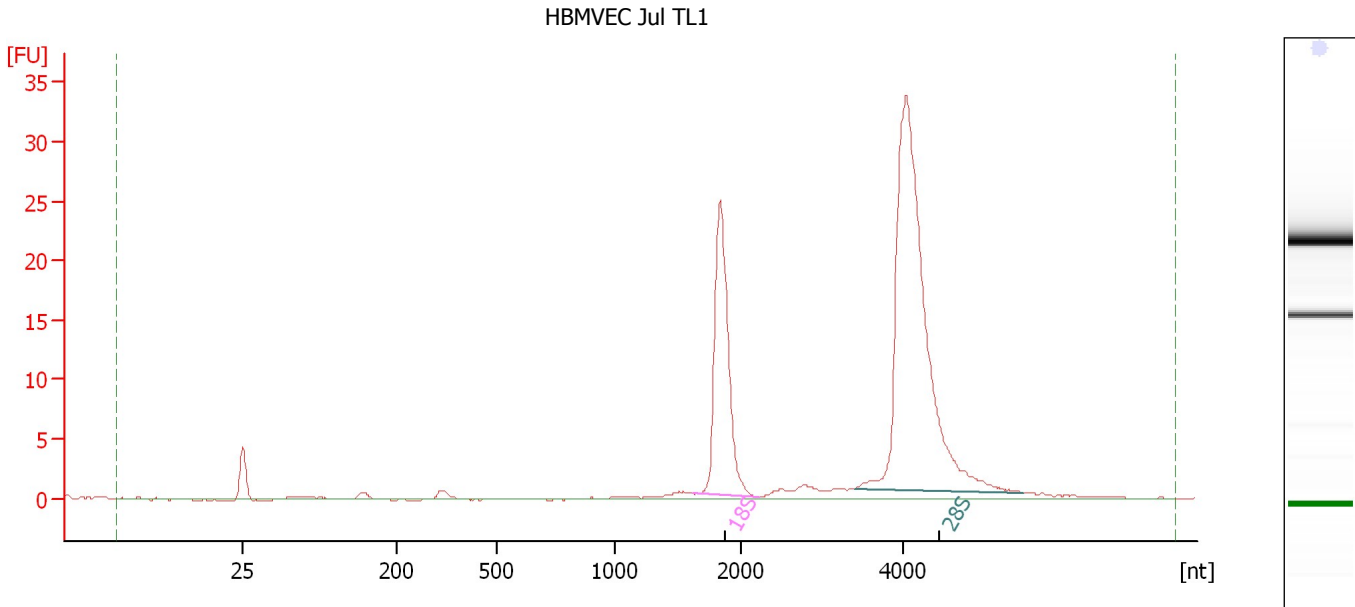
**Fragment table for sample 3 : HBMVEC Jul M3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	2,154	88.7	24.1
28S	3,637	4,657	181.2	49.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : HBMVEC Jul TL1**

RNA Area:	151.3	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	135 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]:	2.3	Result Flagging Label:	RIN:10

**Fragment table for sample 4 : HBMVEC Jul TL1**

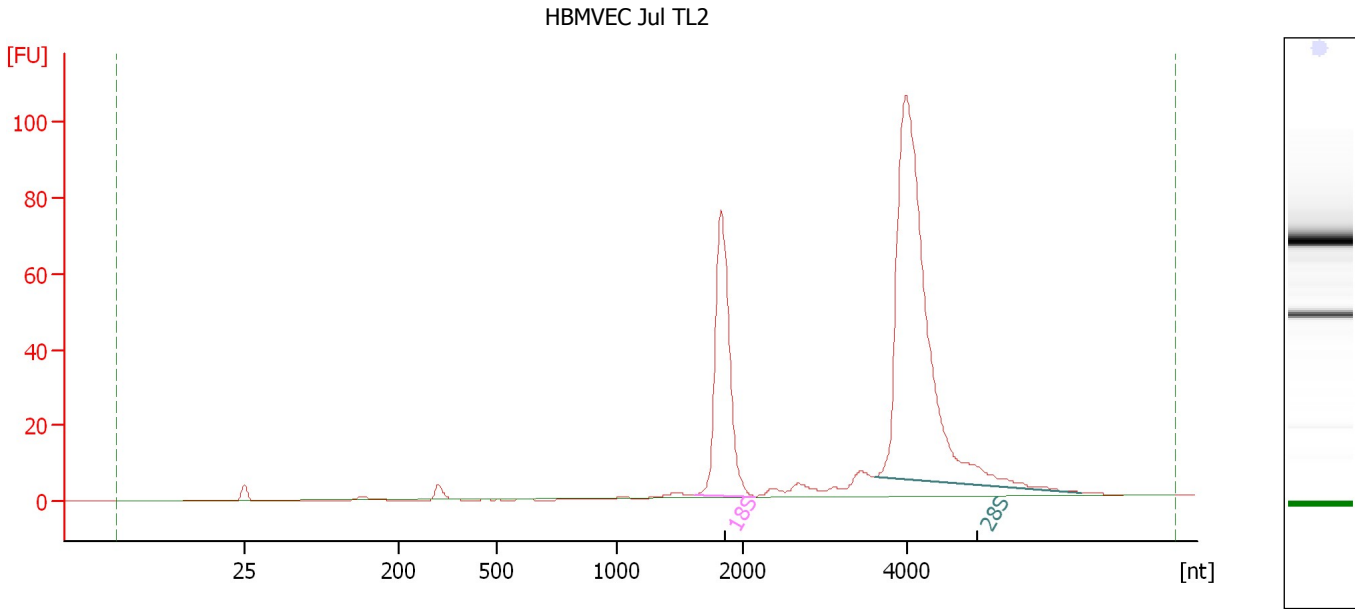
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	2,210	38.4	25.4
28S	3,391	5,463	89.7	59.3



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : HBMVEC Jul TL2**

RNA Area: 497.9 RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 443 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN:10

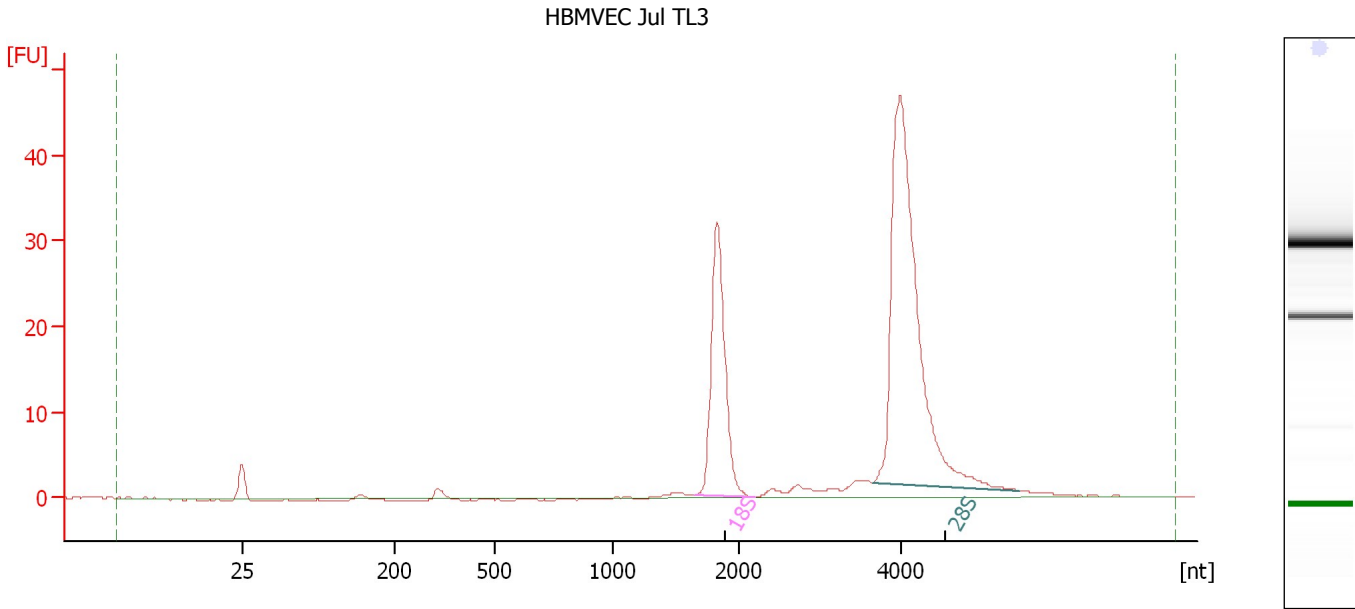
**Fragment table for sample 5 : HBMVEC Jul TL2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	2,145	120.6	24.2
28S	3,624	6,137	284.4	57.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HBMVEC Jul TL3**

RNA Area: 190.9 RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 170 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN:10

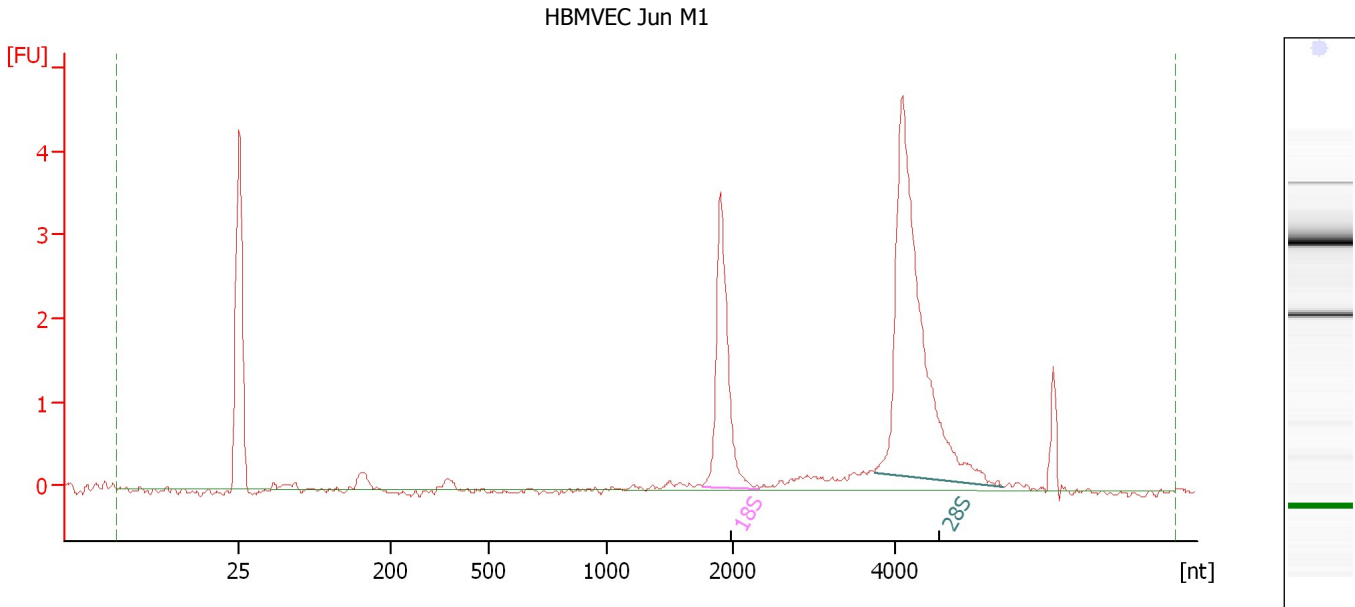
**Fragment table for sample 6 : HBMVEC Jul TL3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	2,196	49.6	26.0
28S	3,642	5,442	111.0	58.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HBMVEC Jun M1**

RNA Area:	20.3	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	18 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]:	2.4	Result Flagging Label:	RIN:10

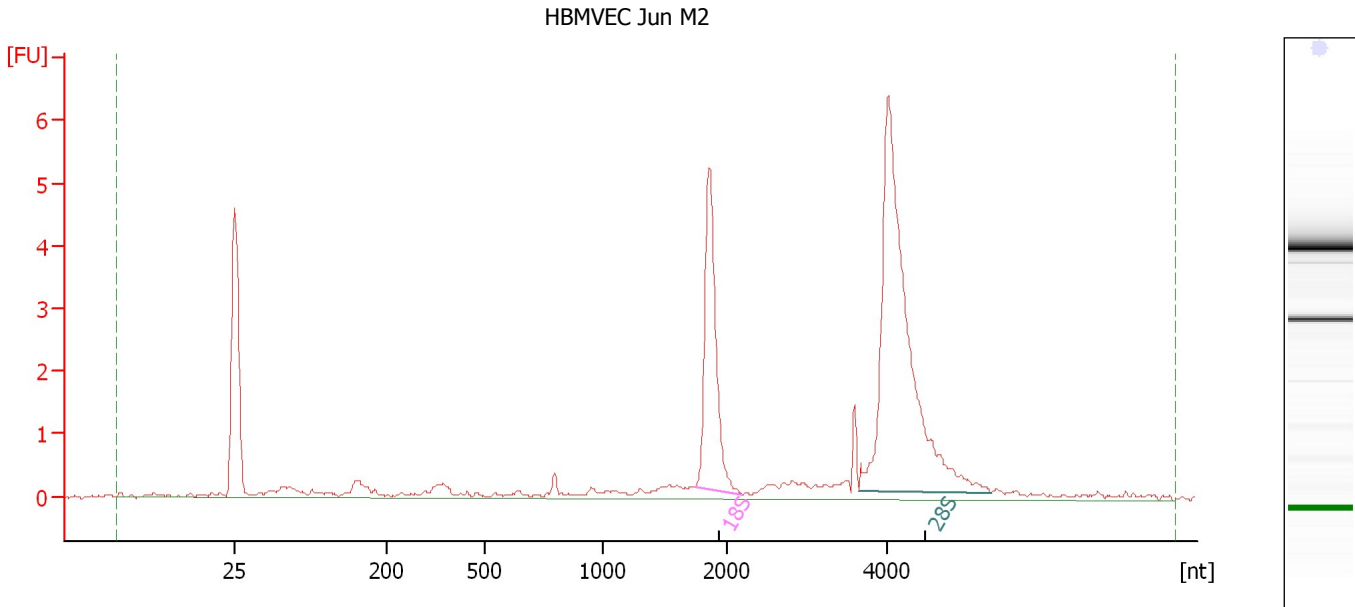
**Fragment table for sample 7 : HBMVEC Jun M1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,758	2,327	4.5	22.0
28S	3,754	5,340	10.6	52.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : HBMVEC Jun M2**

RNA Area: 33.8 RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 30 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN:10

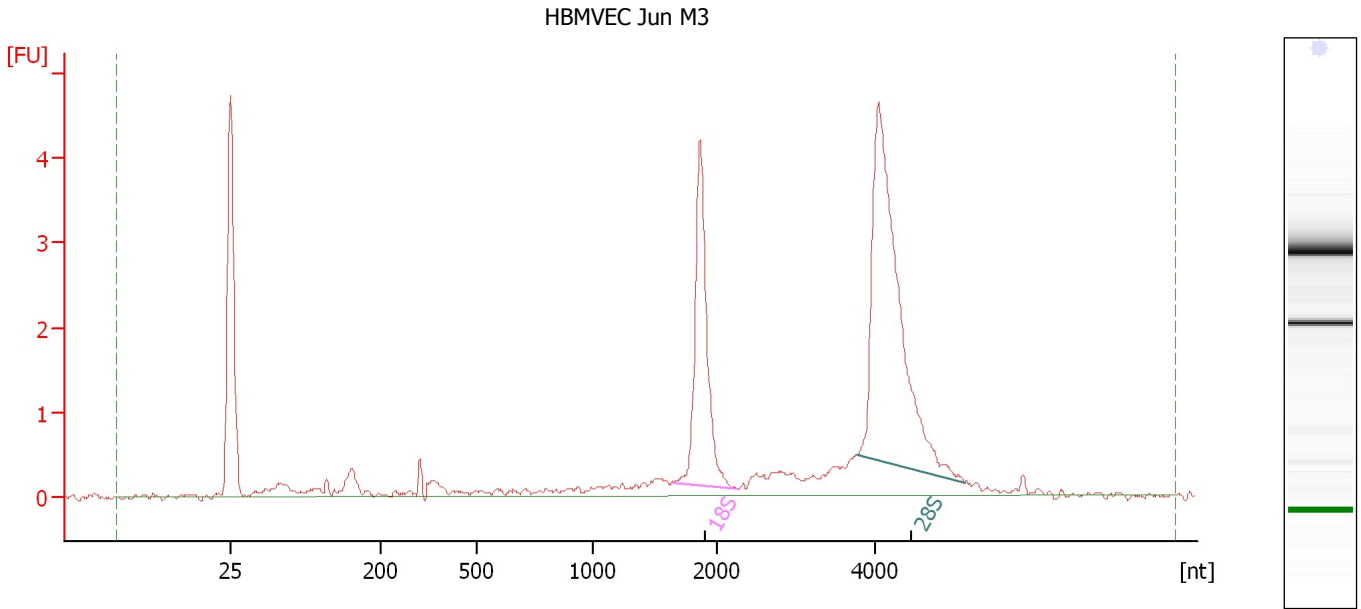
**Fragment table for sample 8 : HBMVEC Jun M2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,737	2,192	6.4	18.8
28S	3,642	5,291	15.5	45.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : HBMVEC Jun M3**

RNA Area:	27.8	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	25 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]:	1.9	Result Flagging Label:	RIN: 9.60

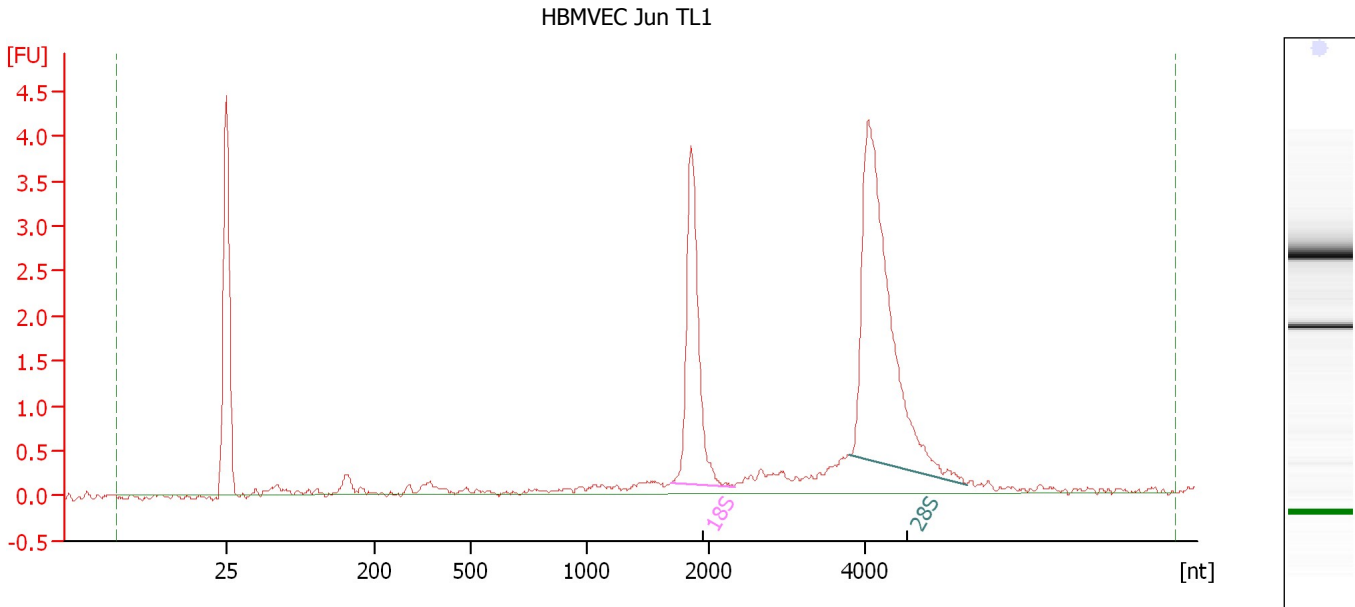
**Fragment table for sample 9 : HBMVEC Jun M3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	2,283	5.6	20.0
28S	3,773	5,117	10.7	38.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : HBMVEC Jun TL1**

RNA Area:	24.0	RNA Integrity Number (RIN):	9.8 (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]:	2.0	Result Flagging Label:	RIN: 9.80

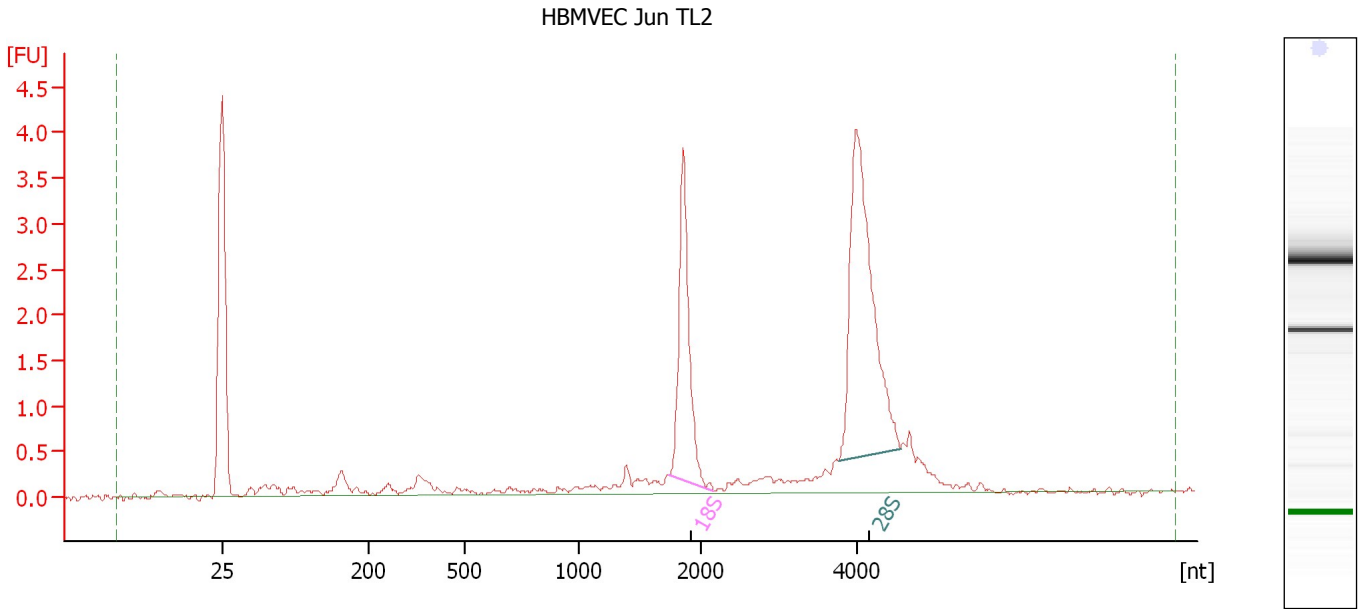
**Fragment table for sample 10 : HBMVEC Jun TL1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,699	2,335	5.1	21.3
28S	3,797	5,273	10.1	42.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HBMVEC Jun TL2**

RNA Area:	23.0	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	20 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: 9.50

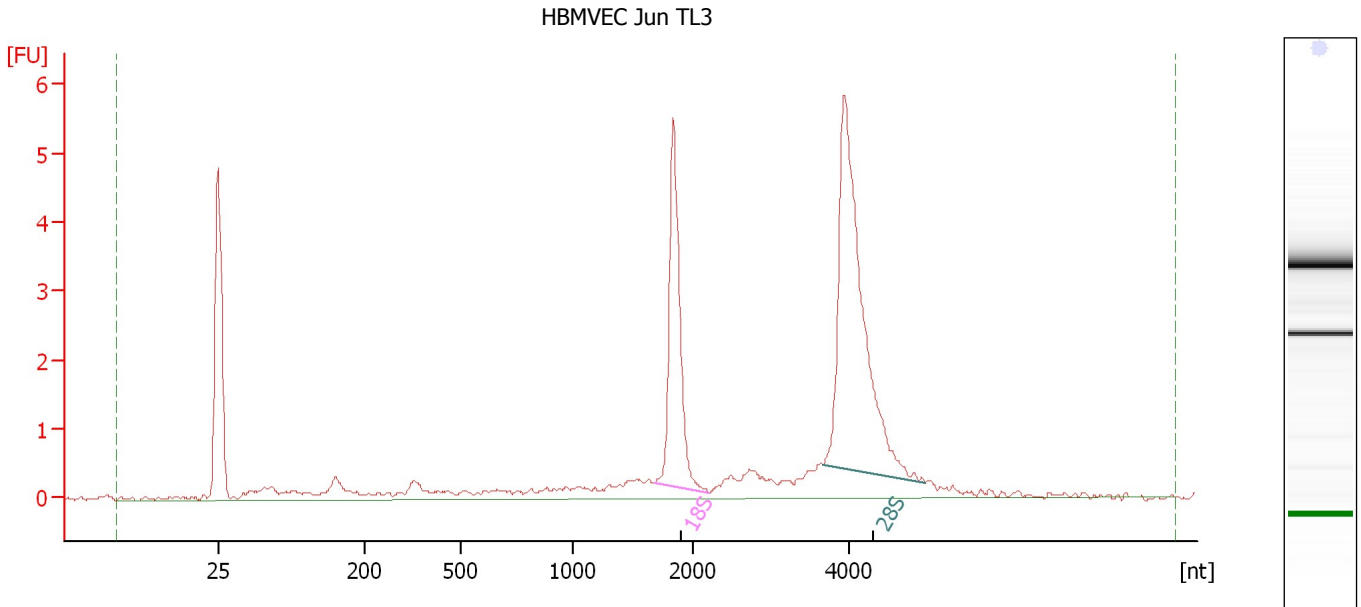
**Fragment table for sample 11 : HBMVEC Jun TL2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,747	2,169	4.3	18.6
28S	3,766	4,558	7.8	34.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : HBMVEC Jun TL3**

RNA Area:	36.1	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	32 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]:	2.0	Result Flagging Label:	RIN: 9.50

**Fragment table for sample 12 : HBMVEC Jun TL3**

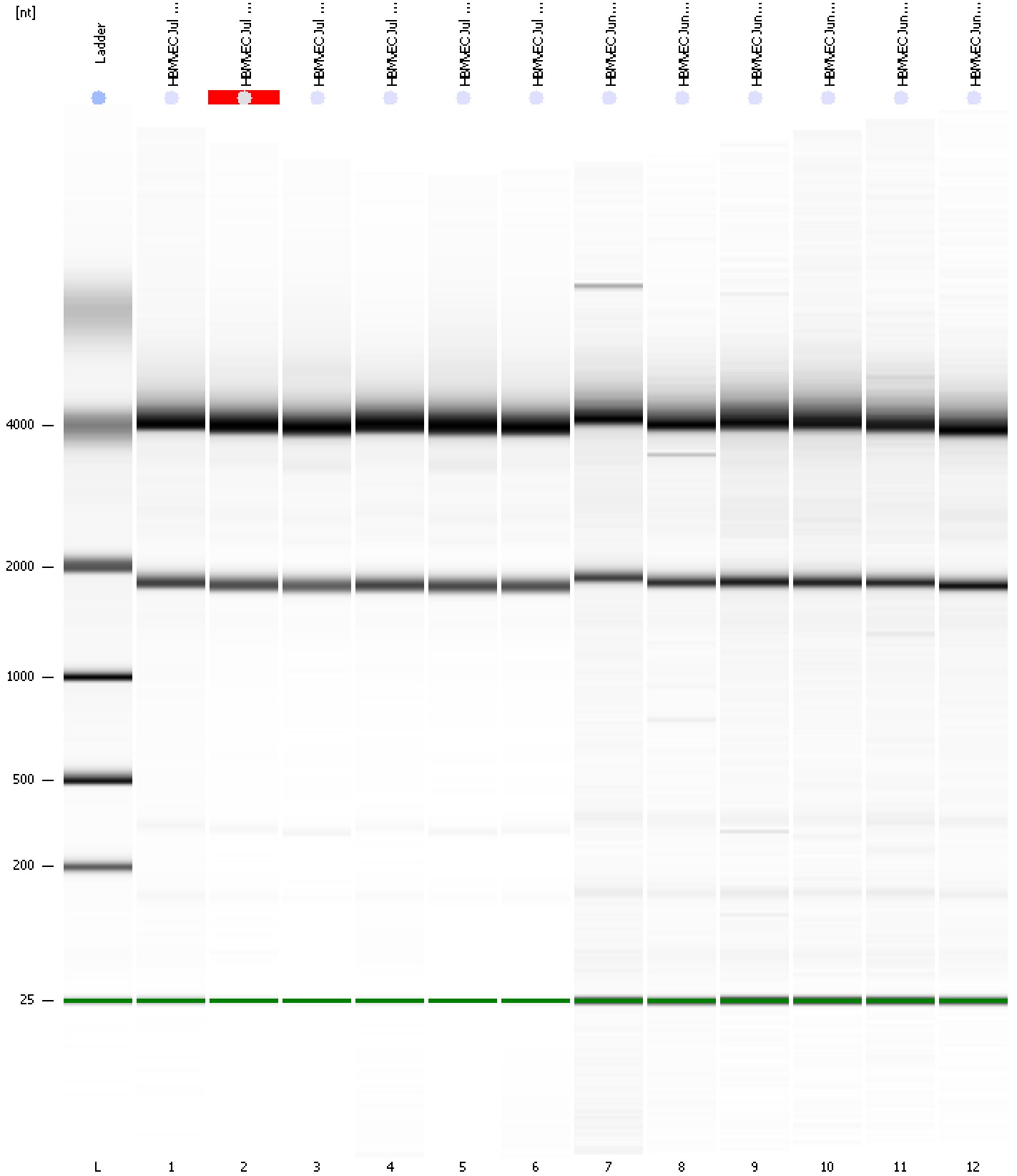
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	2,194	6.5	18.0
28S	3,664	4,983	12.7	35.2



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
Modified: 8/14/2014 3:24:14 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...nalyzer\2100 expert\data\2014-08-14\2014-08-14\_005-Hnin.xad

Created: 8/14/2014 2:57:22 PM  
 Modified: 8/14/2014 3:24:14 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		8/14/2014 3:21:09 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\2014-08-14\2014-08-14_005.xad)		Instrument	Run		8/14/2014 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/14/2014 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/14/2014 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/14/2014 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/14/2014 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/14/2014 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/14/2014 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1