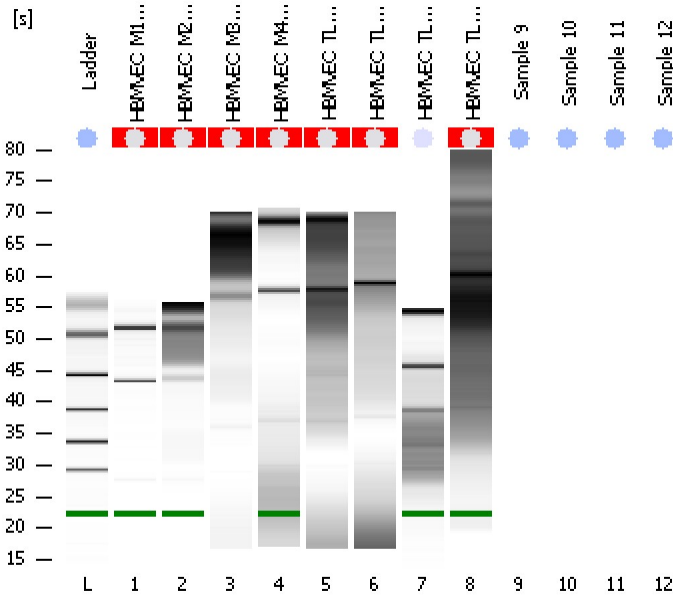


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

Electrophoresis File Run Summary



Instrument Information:

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

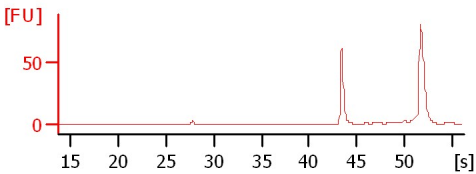
Assay Information:

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.

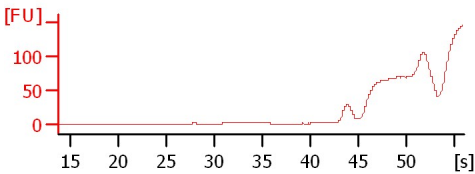
Chip Information:

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

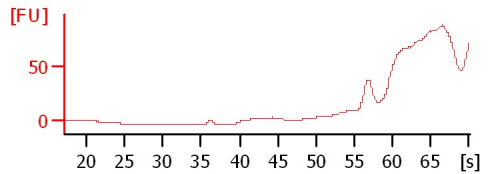
HBMVEC\_M1\_28Jan15  
RIN N/A



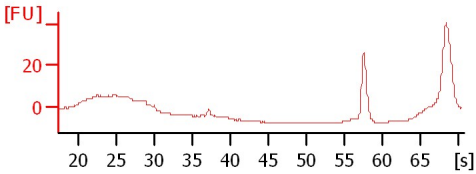
HBMVEC\_M2\_28Jan15  
RIN N/A



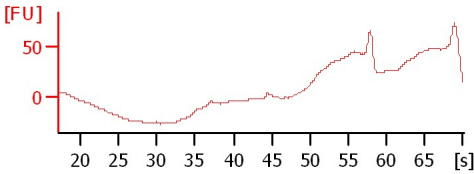
HBMVEC\_M3\_28Jan15  
RIN N/A



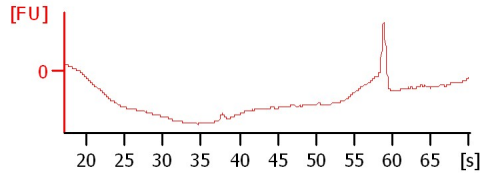
HBMVEC\_M4\_28Jan15  
RIN N/A



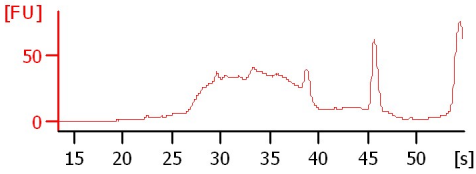
HBMVEC\_TL1\_28Jan15  
RIN N/A



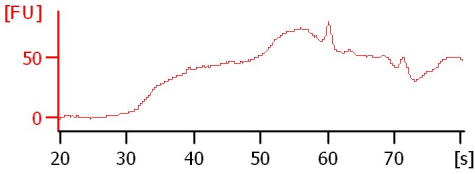
HBMVEC\_TL2\_28Jan15  
RIN N/A



HBMVEC\_TL3\_28Jan15  
RIN: 4.10



HBMVEC\_TL4\_28Jan15  
RIN N/A



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
HBMVEC_M1_28Jan15		✓	RIN N/A	
HBMVEC_M2_28Jan15		✓	RIN N/A	
HBMVEC_M3_28Jan15		✓	RIN N/A	
HBMVEC_M4_28Jan15		✓	RIN N/A	
HBMVEC_TL1_28Jan15		✓	RIN N/A	
HBMVEC_TL2_28Jan15		✓	RIN N/A	
HBMVEC_TL3_28Jan15		✓	RIN: 4.10	
HBMVEC_TL4_28Jan15		✓	RIN N/A	
Sample 9				
Sample 10				
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 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/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

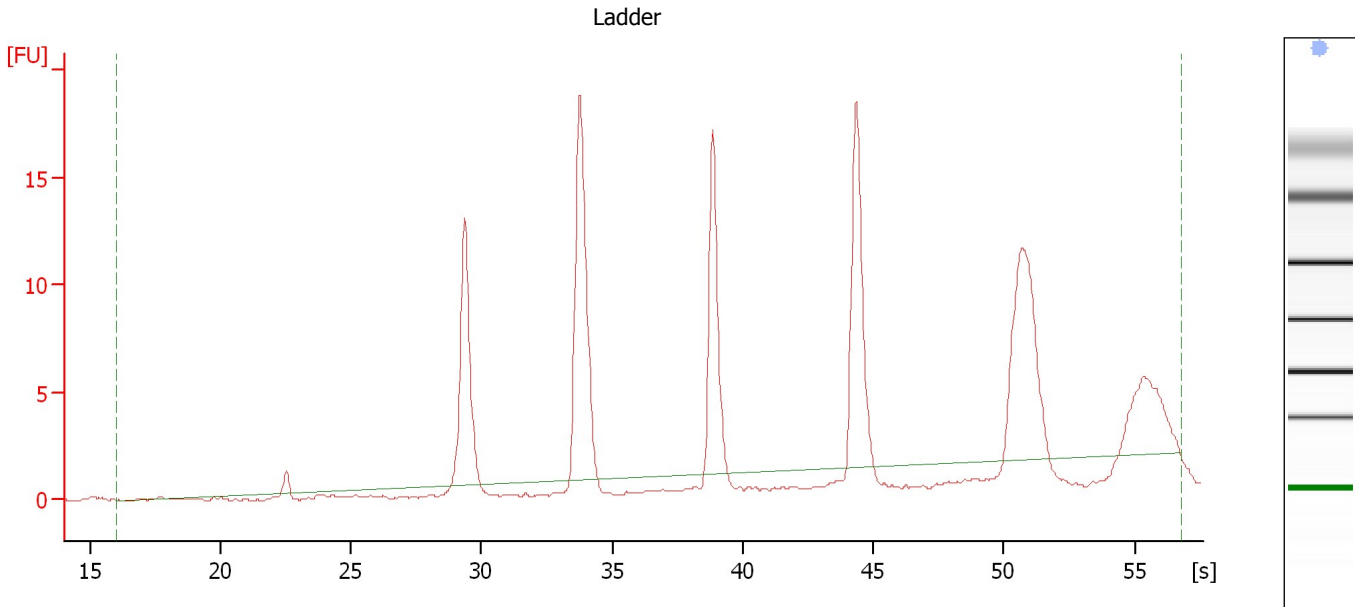
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary**



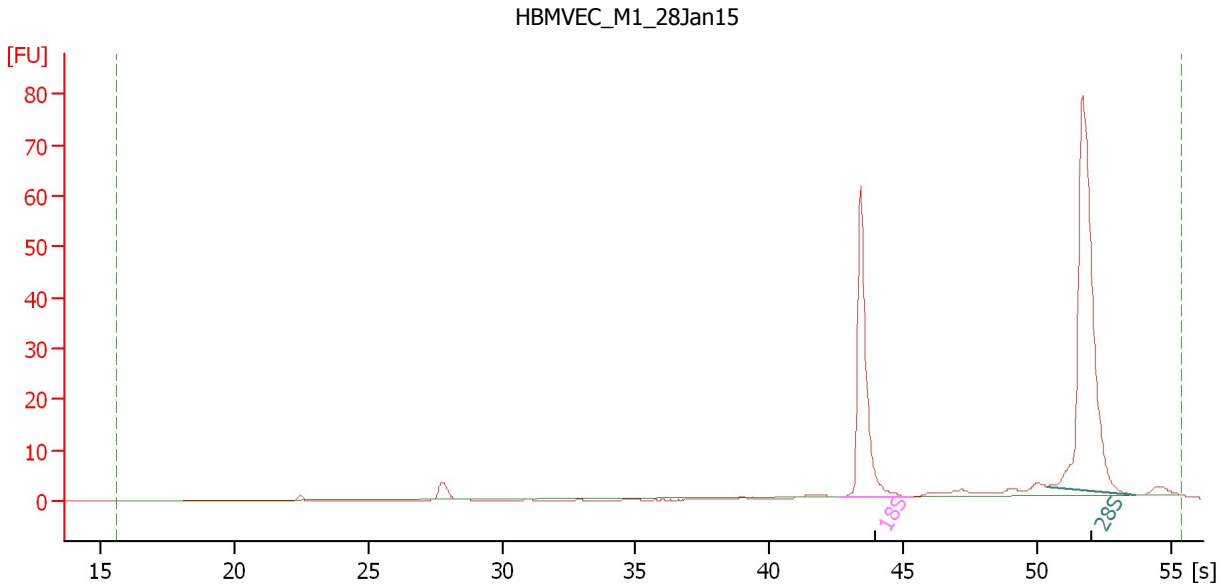
**Overall Results for Ladder**

RNA Area:	104.4	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
 Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HBMVEC M1 28Jan15**

RNA Area:	166.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	239 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]:	1.8	Result Flagging Label:	RIN N/A

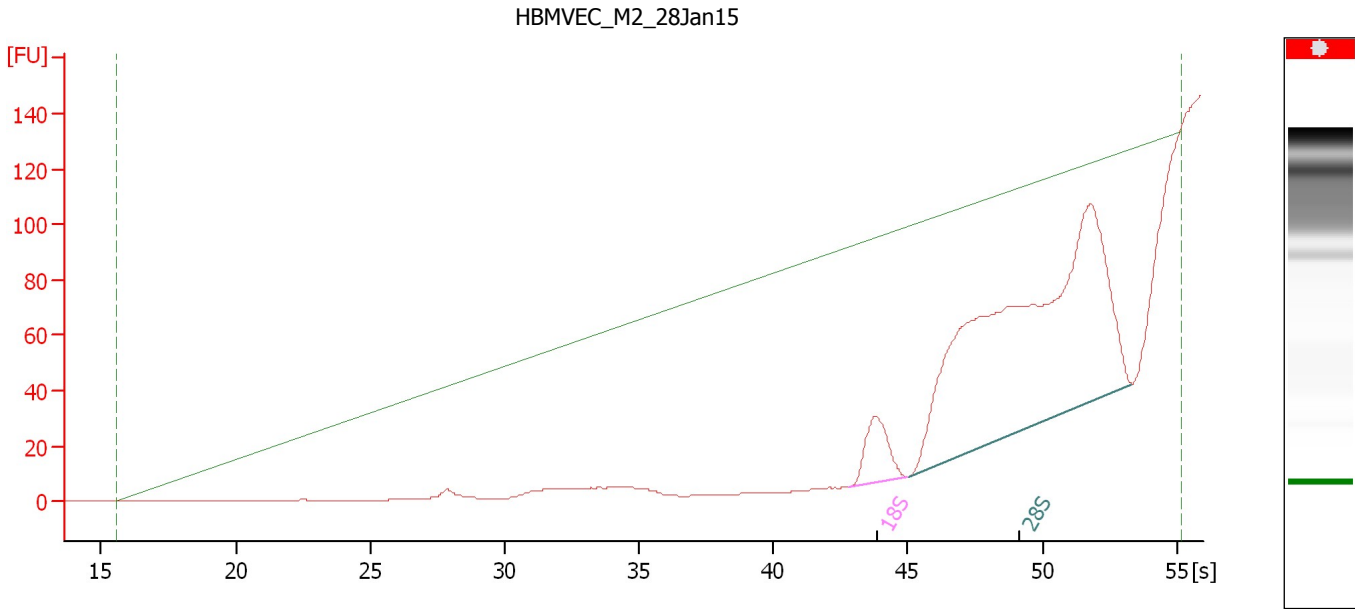
**Fragment table for sample 1 : HBMVEC M1 28Jan15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	2,307	52.9	31.9
28S	3,879	4,911	92.8	55.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HBMVEC M2 28Jan15**

RNA Area: 0.0 RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 0 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 12.5 Result Flagging Label: RIN N/A

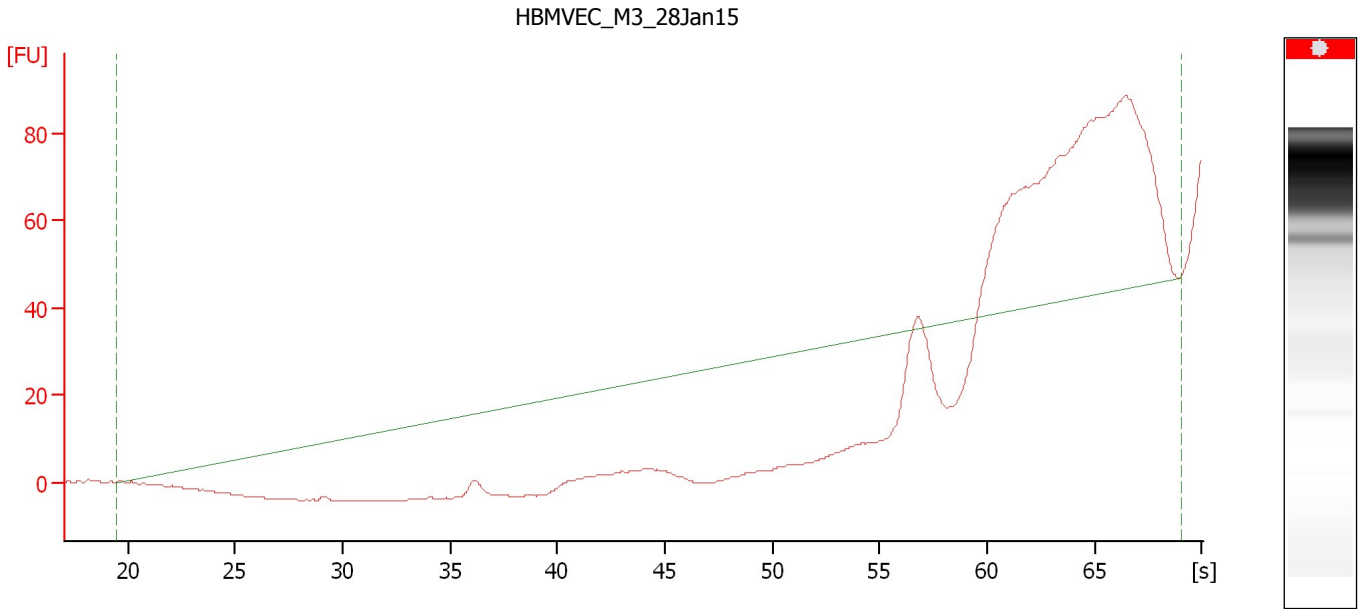
**Fragment table for sample 2 : HBMVEC M2 28Jan15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,720	2,193	53.6	108,328.1
28S	2,218	4,814	670.3	1,355,097.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HBMVEC M3 28Jan15**

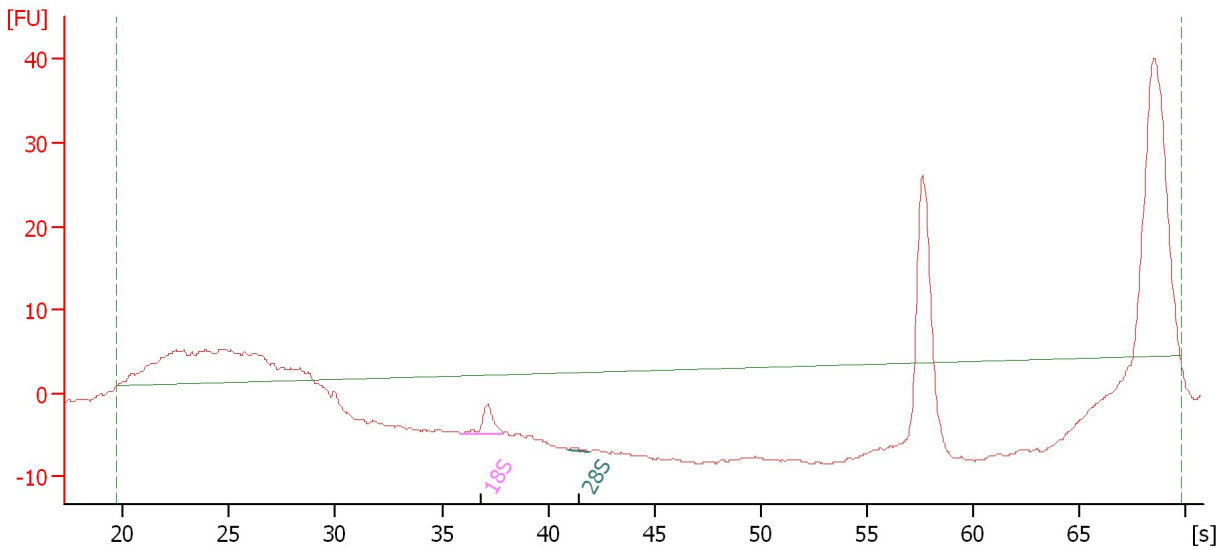
RNA Concentration:	610 ng/μl	Result Flagging Color:	<input type="checkbox"/>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
 Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary Continued ...**

HBMVEC\_M4\_28Jan15



**Overall Results for sample 4 : HBMVEC M4 28Jan15**

RNA Area:	146.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	210 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 4 : HBMVEC M4 28Jan15**

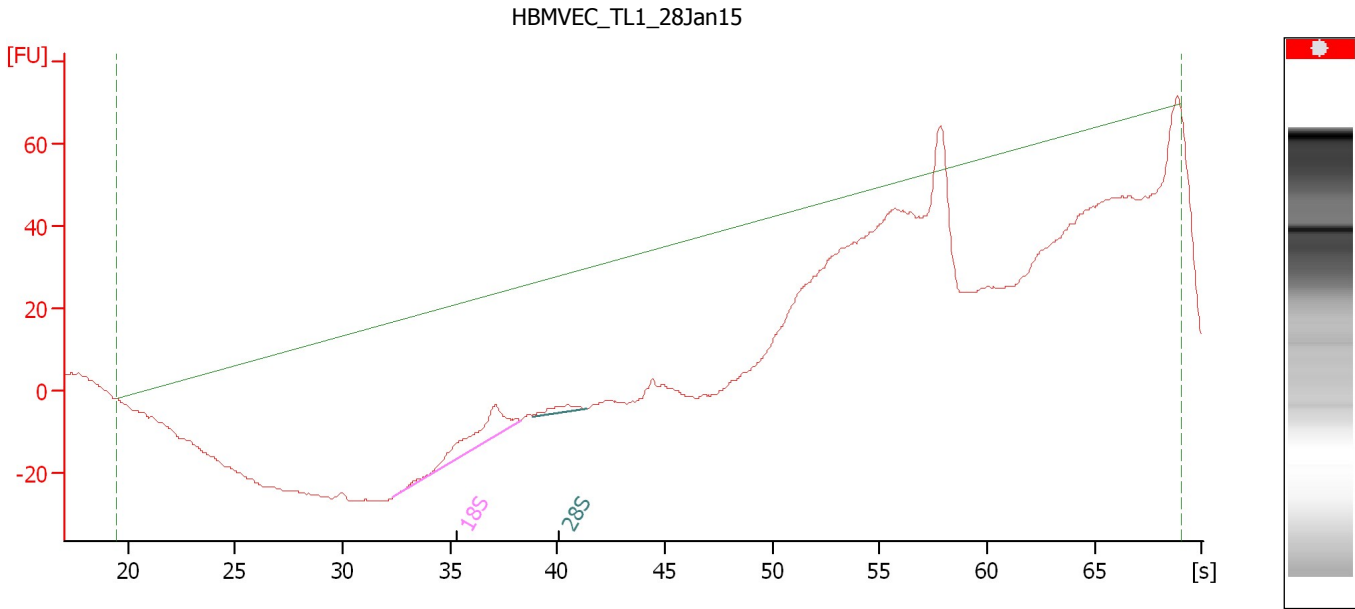
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	712	905	5.3	3.6
28S	1,385	1,559	0.3	0.2



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : HBMVEC TL1 28Jan15**

RNA Area:	7.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	11 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 5 : HBMVEC TL1 28Jan15**

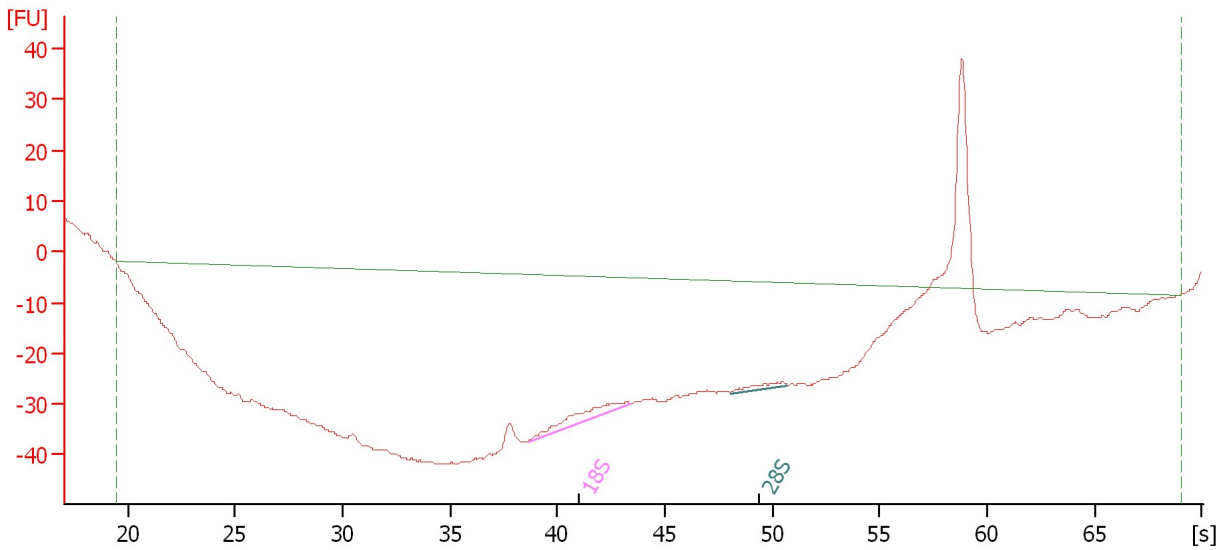
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	405	943	38.7	522.8
28S	997	1,457	5.4	72.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary Continued ...**

HBMVEC\_TL2\_28Jan15



**Overall Results for sample 6 : HBMVEC\_TL2\_28Jan15**

RNA Area: 47.7 RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 69 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN N/A

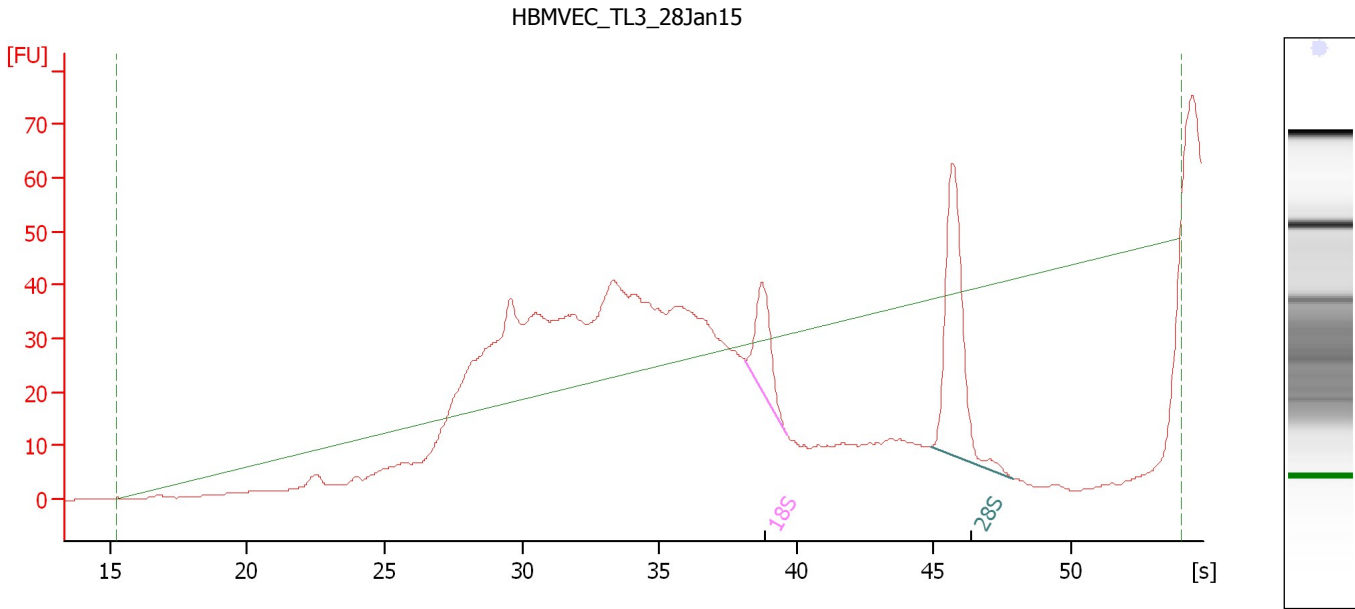
**Fragment table for sample 6 : HBMVEC\_TL2\_28Jan15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	982	1,838	14.4	30.3
28S	3,163	3,994	3.1	6.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HBMVEC TL3 28Jan15**

RNA Area: 386.1 RNA Integrity Number (RIN): 4.1 (B.02.08)  
RNA Concentration: 555 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN: 4.10

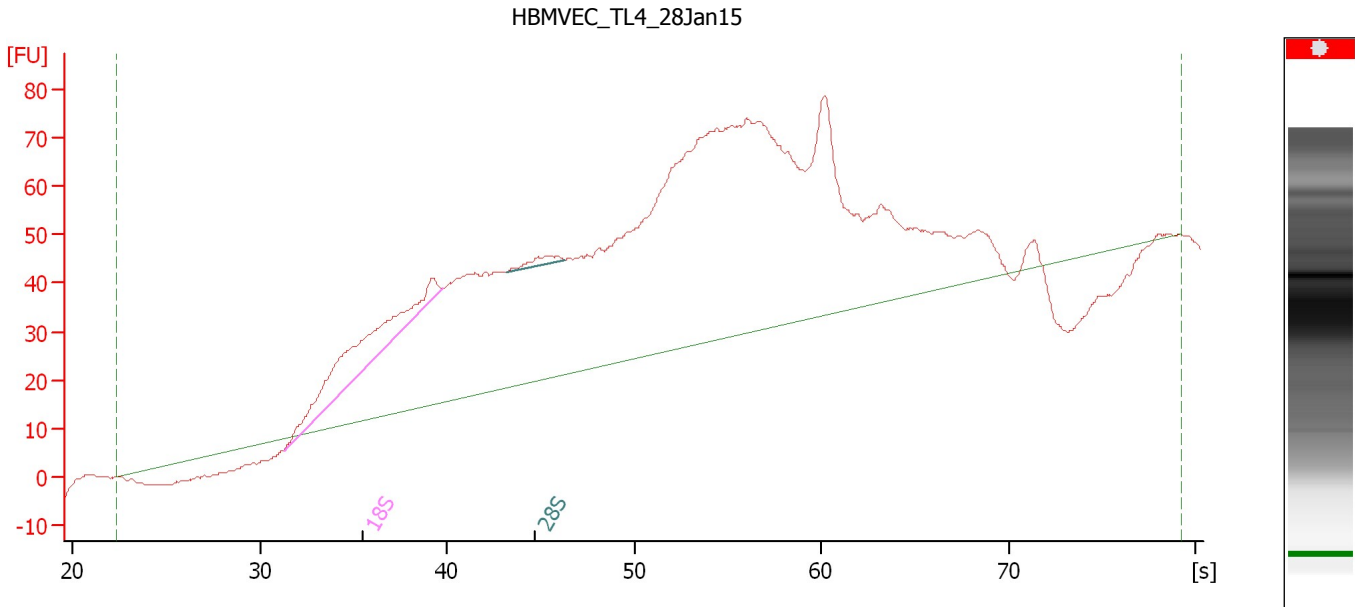
**Fragment table for sample 7 : HBMVEC TL3 28Jan15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	933	1,153	32.9	8.5
28S	2,181	3,114	85.6	22.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
 Modified: 1/29/2015 3:11:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : HBMVEC TL4 28Jan15**

RNA Area:	1,842.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,648 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

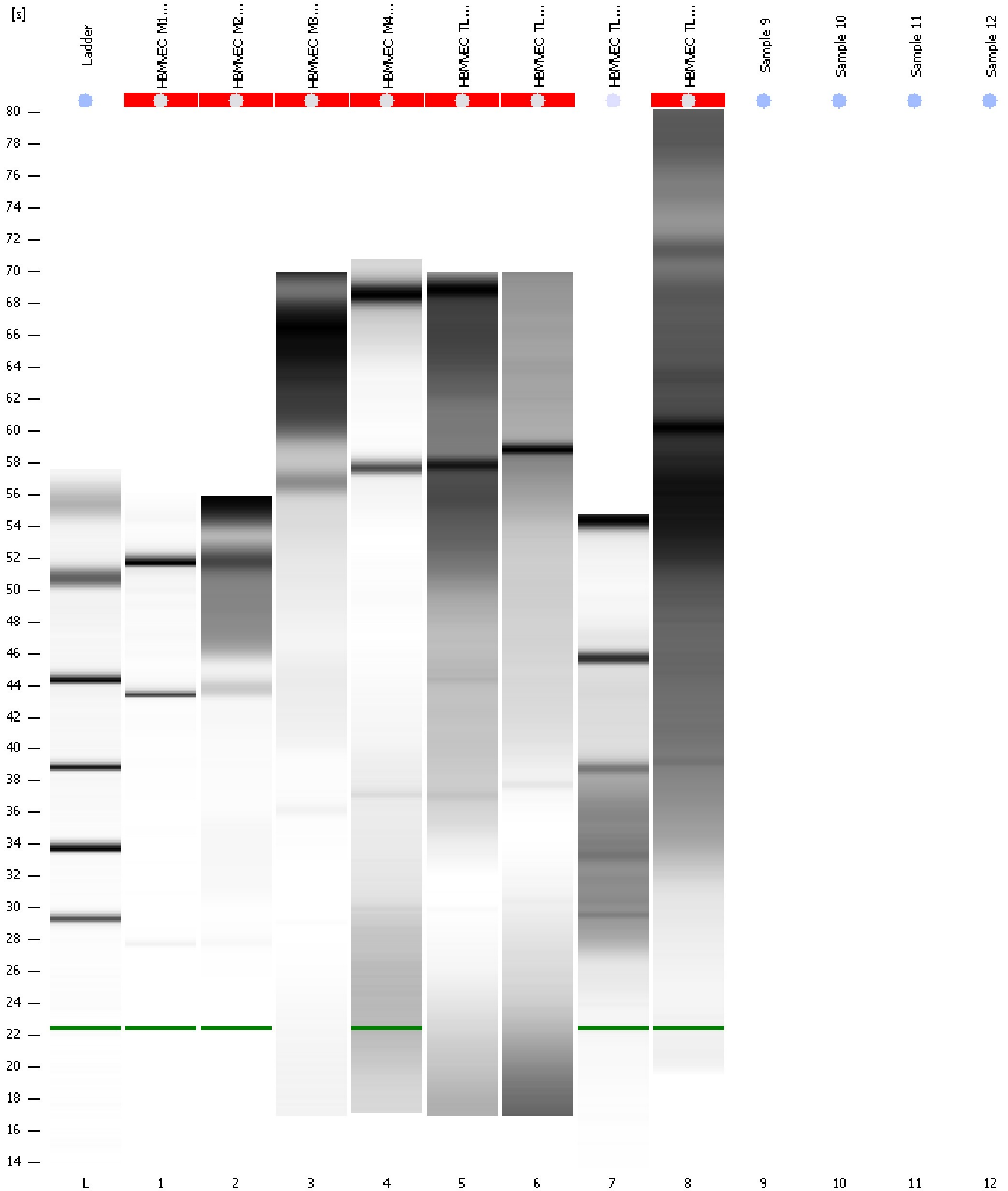
**Fragment table for sample 8 : HBMVEC TL4 28Jan15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	331	1,171	98.8	5.4
28S	1,796	2,620	6.2	0.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad

Created: 1/29/2015 2:53:26 PM  
Modified: 1/29/2015 3:11:48 PM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano Created: 1/29/2015 2:53:26 PM  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_004.xad Modified: 1/29/2015 3:11:48 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		1/29/2015 3:11:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-29\2015-01-29_004.xad)		Instrument	Run		1/29/2015 2:53:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/29/2015 2:53:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/29/2015 2:53:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/29/2015 2:53:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/29/2015 2:53:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/29/2015 2:53:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/29/2015 2:53:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1