

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

Created: 4/30/2015 4:42:32 PM  
Modified: 4/30/2015 5:08:31 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

Assay Information:

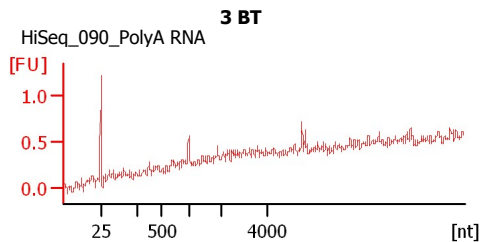
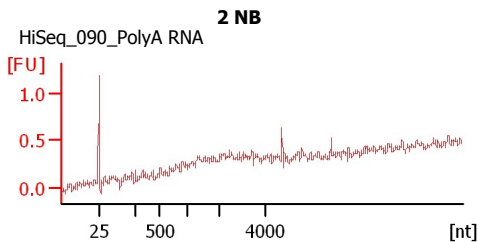
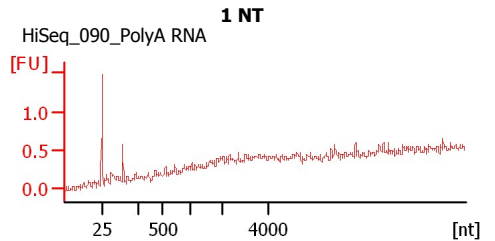
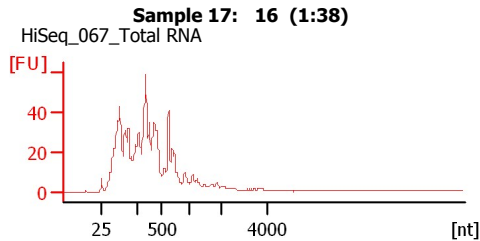
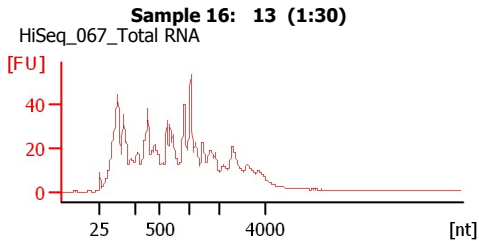
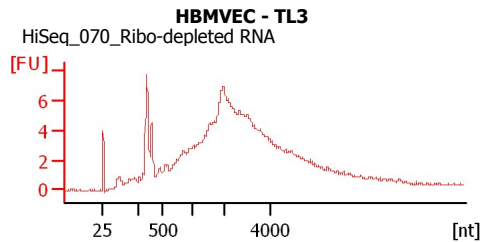
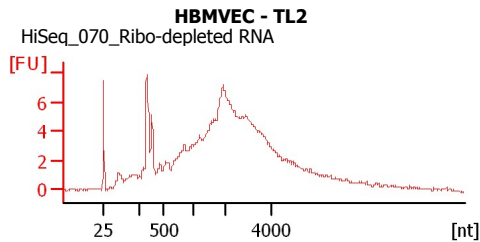
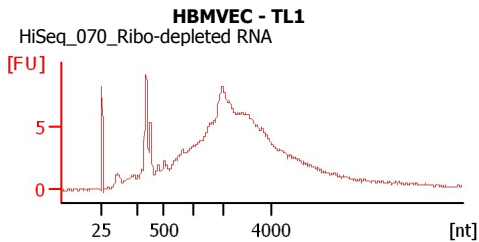
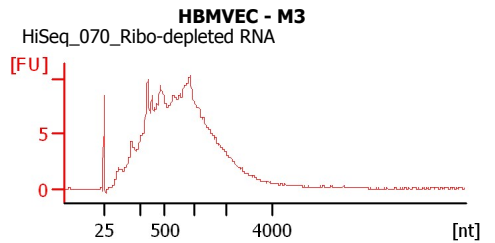
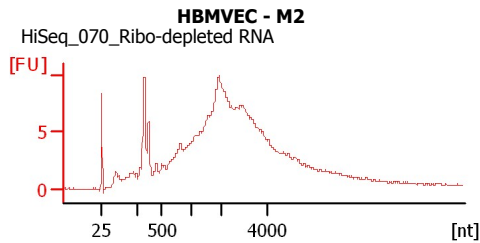
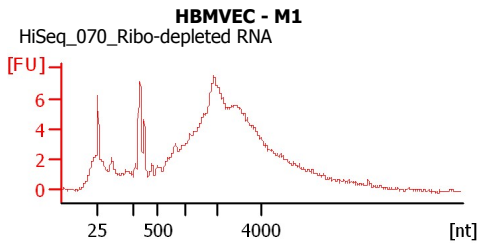
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

Assay Class: mRNA Pico  
Version: 2.6  
Assay Comments: mRNA Analysis pg sensitivity

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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
HBMVEC - M1	HiSeq_070_Ribo-depleted RNA	✓		
HBMVEC - M2	HiSeq_070_Ribo-depleted RNA	✓		
HBMVEC - M3	HiSeq_070_Ribo-depleted RNA	✓		
HBMVEC - TL1	HiSeq_070_Ribo-depleted RNA	✓		
HBMVEC - TL2	HiSeq_070_Ribo-depleted RNA	✓		
HBMVEC - TL3	HiSeq_070_Ribo-depleted RNA	✓		
Sample 16: 13 (1:30)	HiSeq_067_Total RNA	✓		
Sample 17: 16 (1:38)	HiSeq_067_Total RNA	✓		
1 NT	HiSeq_090_PolyA RNA	✓		
2 NB	HiSeq_090_PolyA RNA	✓		
3 BT	HiSeq_090_PolyA RNA	✓		
Ladder		✓		

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

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## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 14  
Maximum Visible Range [s] : 85  
Start Analysis Time Range [s] : 15  
End Analysis Time Range [s] : 84  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 15  
Integration End Time [s] : 84  
Slope Threshold : 0.2  
Height Threshold [FU] : 0.5  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

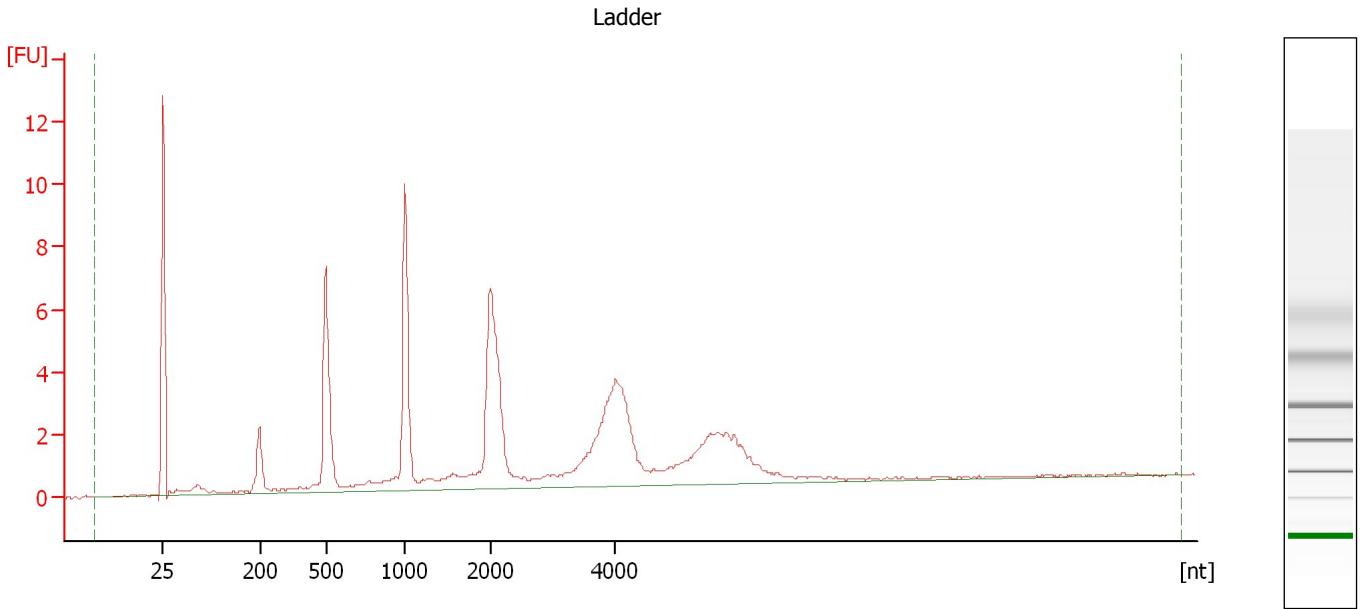
### Ladder

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

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**Electropherogram Summary**



**Overall Results for Ladder**

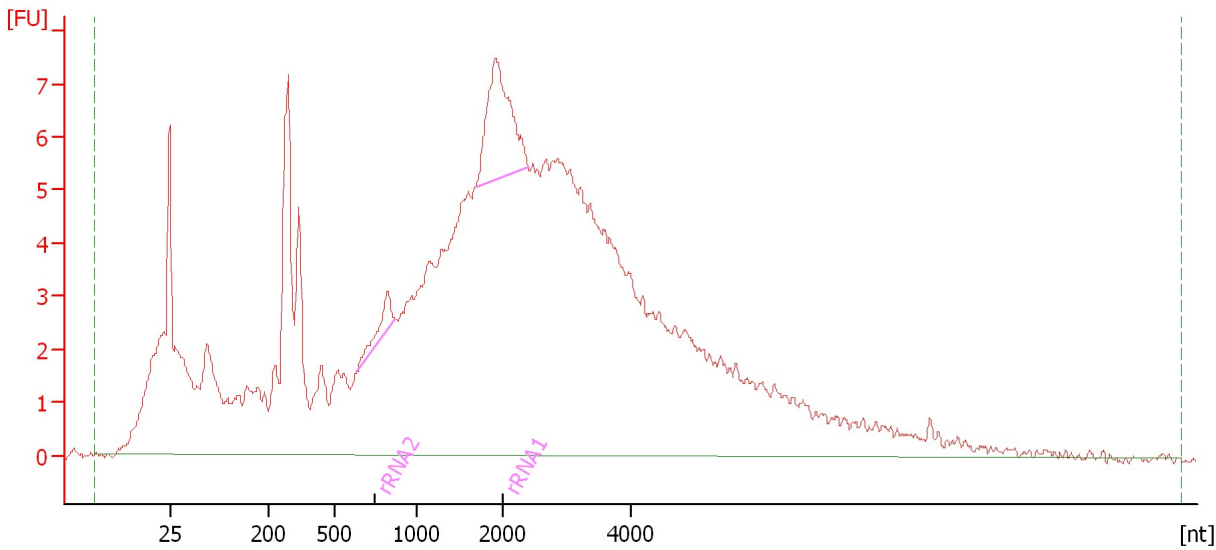
RNA Area: 84.9                      RNA Concentration: 1,000 pg/μl

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**Electropherogram Summary Continued ...**

HBMVEC - M1 [ HiSeq\_070\_Ribo-depleted RNA ]



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

RNA Area: 317.8                      rRNA Contamination: 3.5 %  
RNA Concentration: 3,743 pg/μl

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

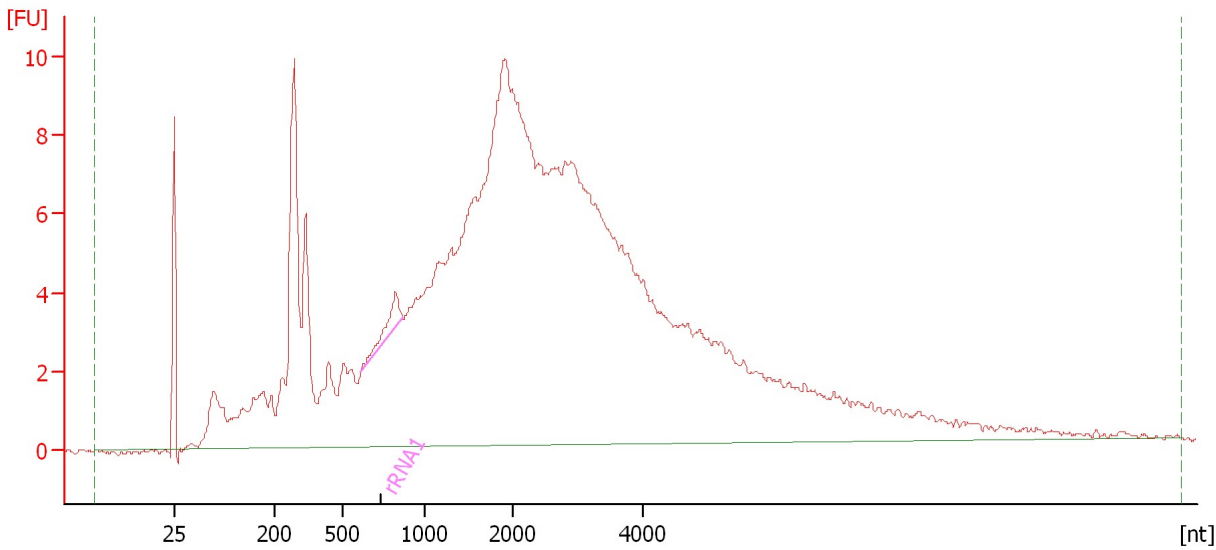
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	633	866	1.9	0.6
rRNA1	1,687	2,398	9.2	2.9

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

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**Electropherogram Summary Continued ...**

HBMVEC - M2 [ HiSeq\_070\_Ribo-depleted RNA ]



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

RNA Area: 364.3                      rRNA Contamination: 0.6 %  
RNA Concentration: 4,290 pg/μl

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

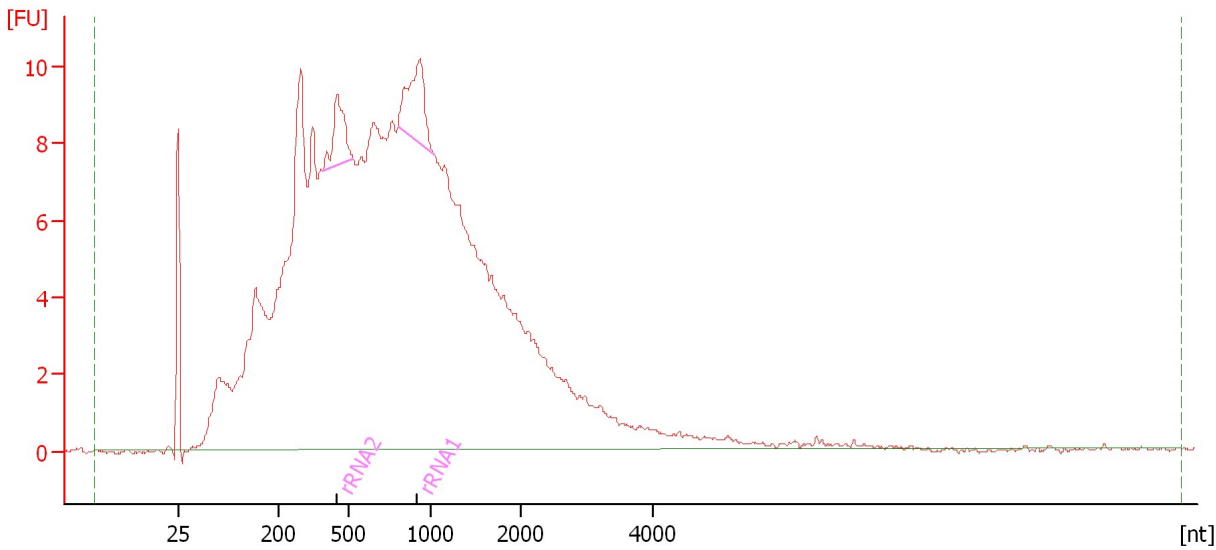
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	612	865	2.3	0.6

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

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**Electropherogram Summary Continued ...**

HBMVEC - M3 [ HiSeq\_070\_Ribo-depleted RNA ]



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

RNA Area: 389.1 rRNA Contamination: 3.0 %  
RNA Concentration: 4,583 pg/μl

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

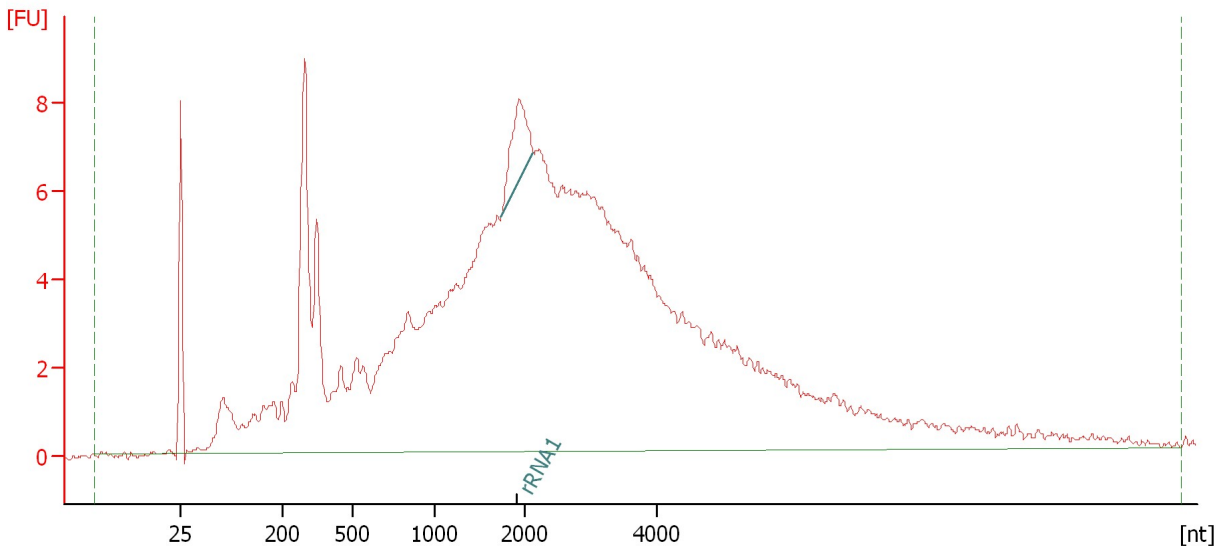
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	387	526	4.8	1.2
rRNA1	796	1,033	7.0	1.8

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

Created: 4/30/2015 4:42:32 PM  
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**Electropherogram Summary Continued ...**

HBMVEC - TL1 [ HiSeq\_070\_Ribo-depleted RNA ]



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

RNA Area: 310.9                      rRNA Contamination: 1.6 %  
RNA Concentration: 3,662 pg/μl

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,731	2,117	4.9	1.6

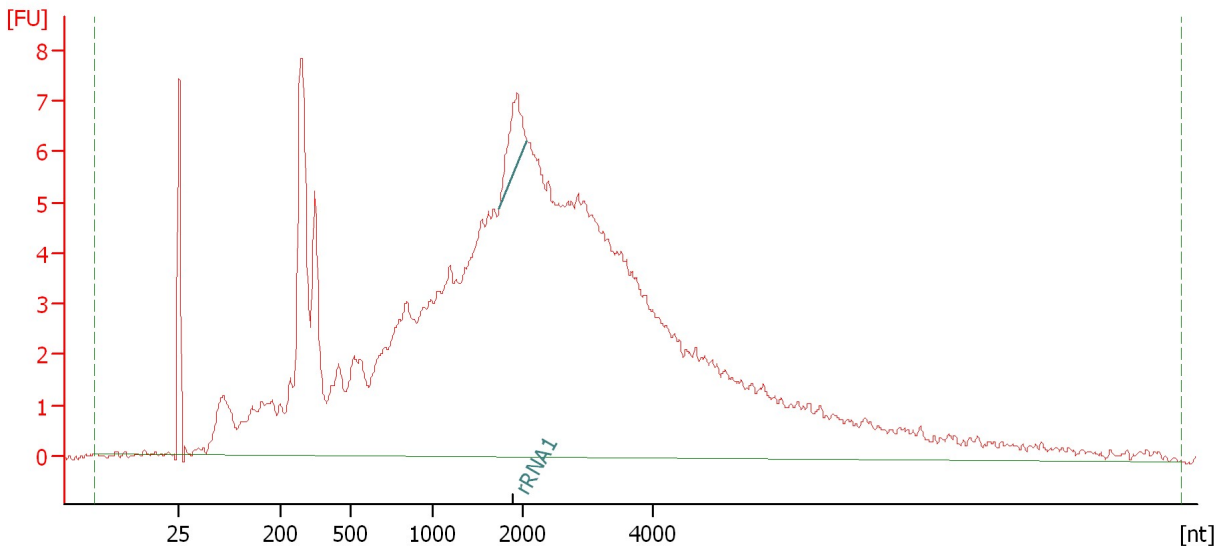


Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

Created: 4/30/2015 4:42:32 PM  
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**Electropherogram Summary Continued ...**

HBMVEC - TL2 [ HiSeq\_070\_Ribo-depleted RNA ]



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

RNA Area: 276.1 rRNA Contamination: 1.2 %  
RNA Concentration: 3,251 pg/μl

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

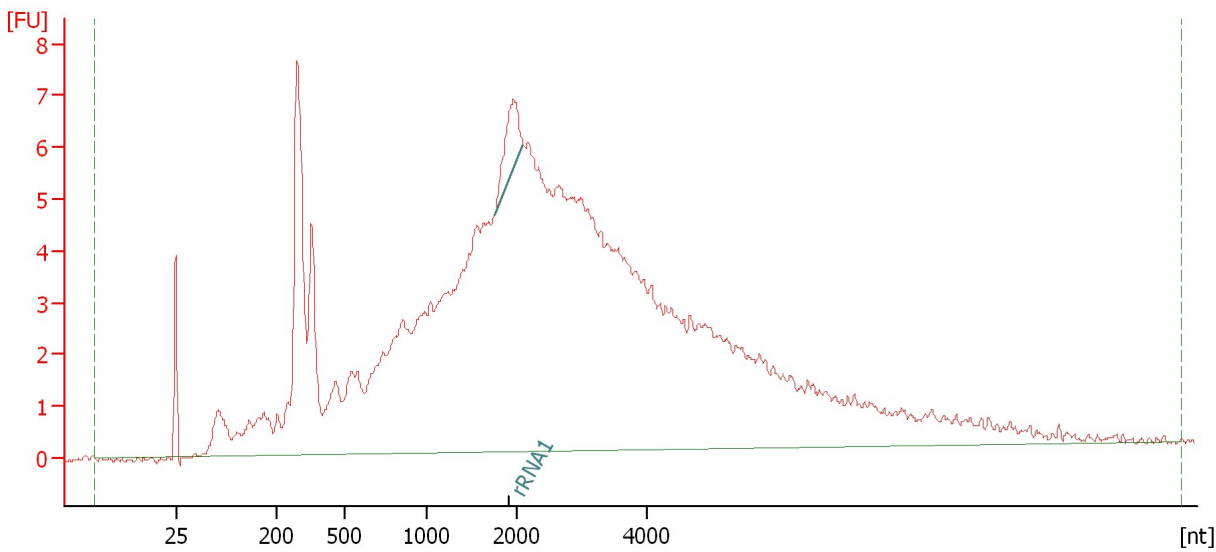
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,739	2,069	3.3	1.2

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

Created: 4/30/2015 4:42:32 PM  
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**Electropherogram Summary Continued ...**

HBMVEC - TL3 [ HiSeq\_070\_Ribo-depleted RNA ]



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

RNA Area: 261.4                      rRNA Contamination: 1.3 %  
RNA Concentration: 3,079 pg/μl

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

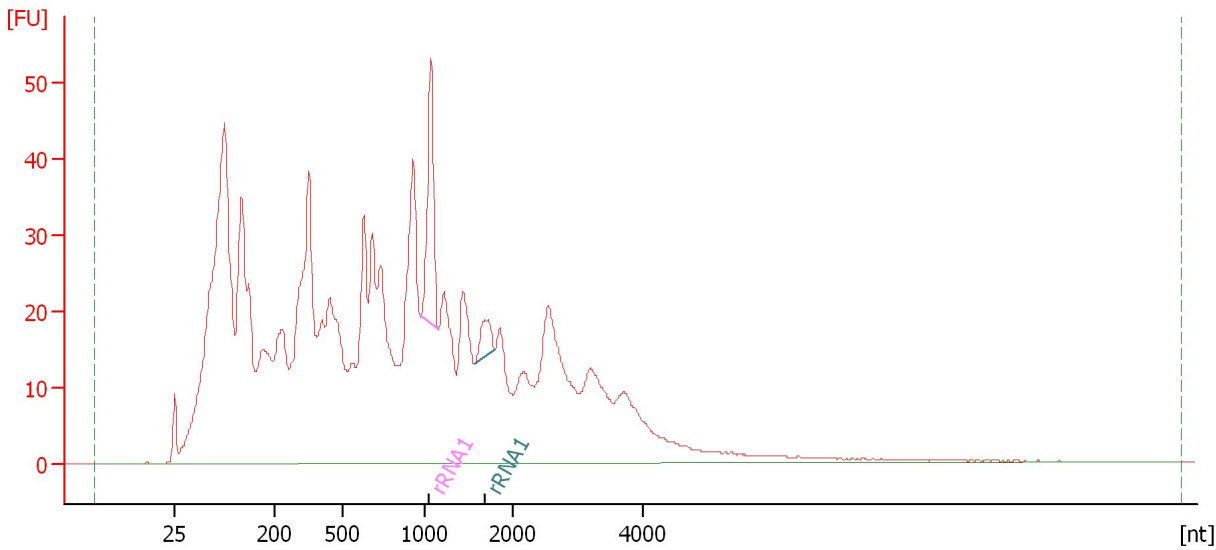
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,755	2,120	3.3	1.3

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

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**Electropherogram Summary Continued ...**

Sample 16: 13 (1:30) [ HiSeq\_067\_Total RNA ]



**Overall Results for sample 7 : Sample 16: 13 (1:30)**

RNA Area: 1,561.5                      rRNA Contamination: 3.2 %  
RNA Concentration: 18,390 pg/μl

**Fragment table for sample 7 : Sample 16: 13 (1:30)**

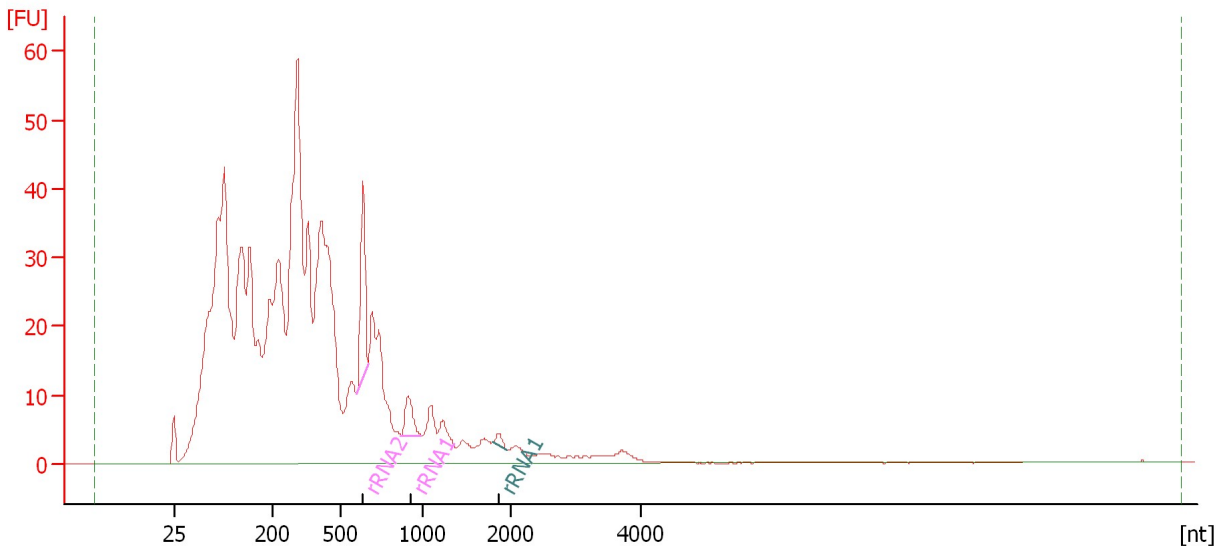
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	983	1,158	40.8	2.6
rRNA1	1,573	1,799	9.1	0.6

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

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**Electropherogram Summary Continued ...**

Sample 17: 16 (1:38) [ HiSeq\_067\_Total RNA ]



**Overall Results for sample 8 : Sample 17: 16 (1:38)**

RNA Area: 1,169.4                      rRNA Contamination: 3.3 %  
RNA Concentration: 13,772 pg/μl

**Fragment table for sample 8 : Sample 17: 16 (1:38)**

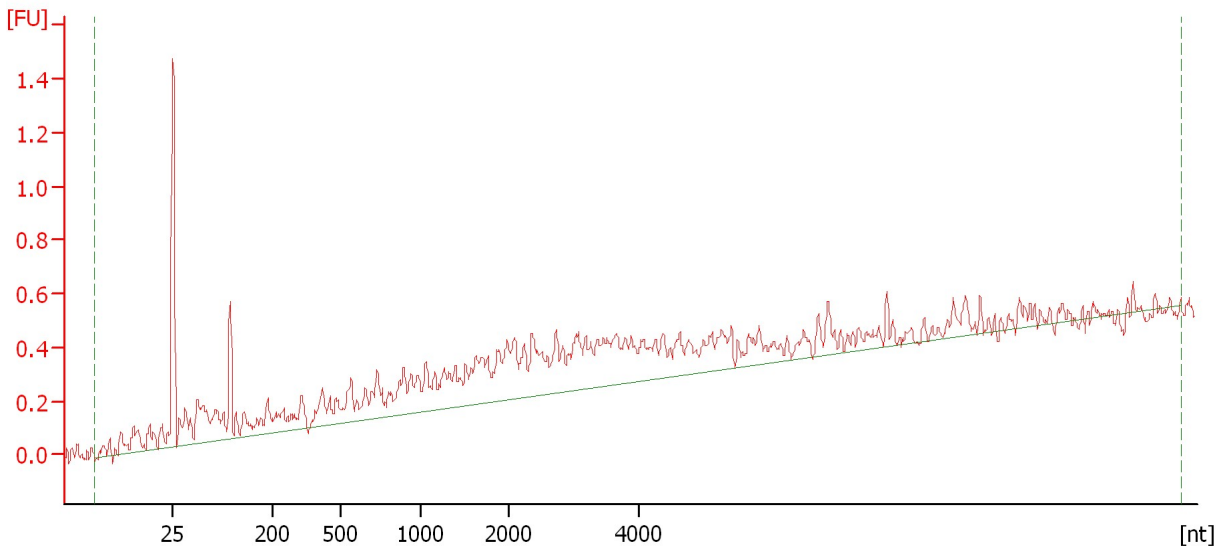
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	595	663	28.1	2.4
rRNA1	864	991	9.0	0.8
rRNA1	1,781	1,953	2.0	0.2

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**Electropherogram Summary Continued ...**

1 NT [ HiSeq\_090\_PolyA RNA ]



**Overall Results for sample 9 : 1 NT**

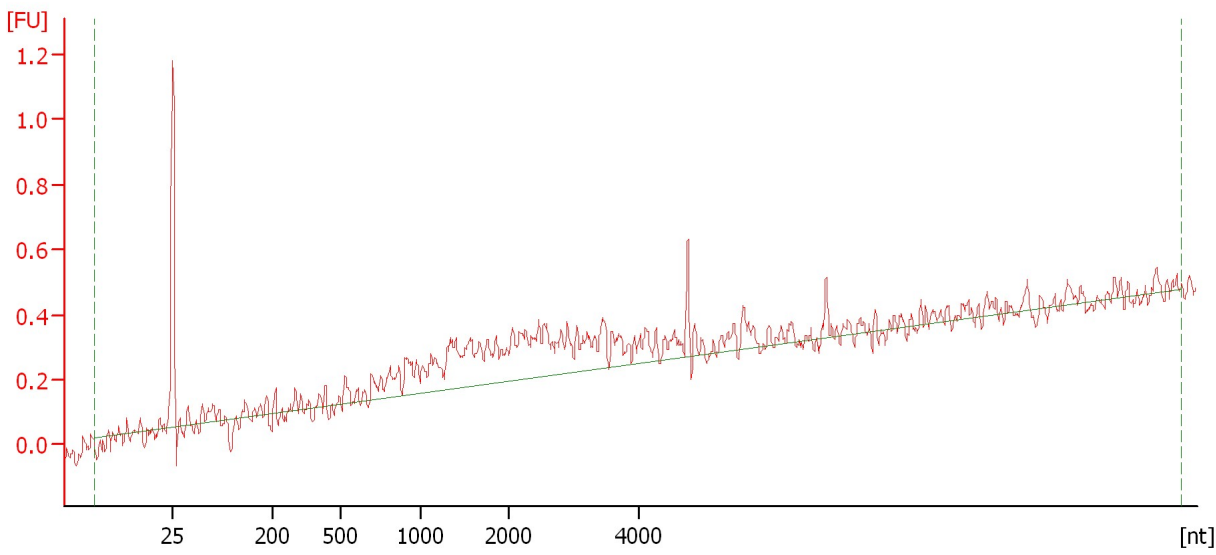
RNA Area:	13.8	rRNA Contamination:	0.0 %
RNA Concentration:	162 pg/μl		

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

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**Electropherogram Summary Continued ...**

2 NB [ HiSeq\_090\_PolyA RNA ]



**Overall Results for sample 10 : 2 NB**

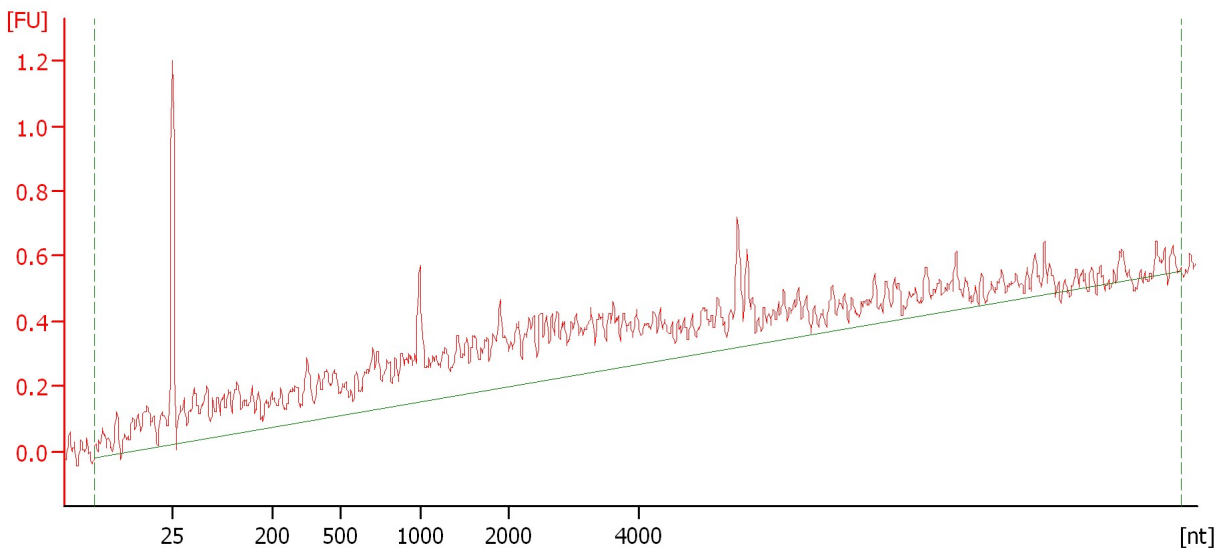
RNA Area: 6.2                      rRNA Contamination: 0.0 %  
RNA Concentration: 73 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

Created: 4/30/2015 4:42:32 PM  
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**Electropherogram Summary Continued ...**

3 BT [ HiSeq\_090\_PolyA RNA ]



**Overall Results for sample 11 : 3 BT**

RNA Area: 15.7                      rRNA Contamination: 0.0 %  
RNA Concentration: 185 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_005.xad

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**Gel Image**