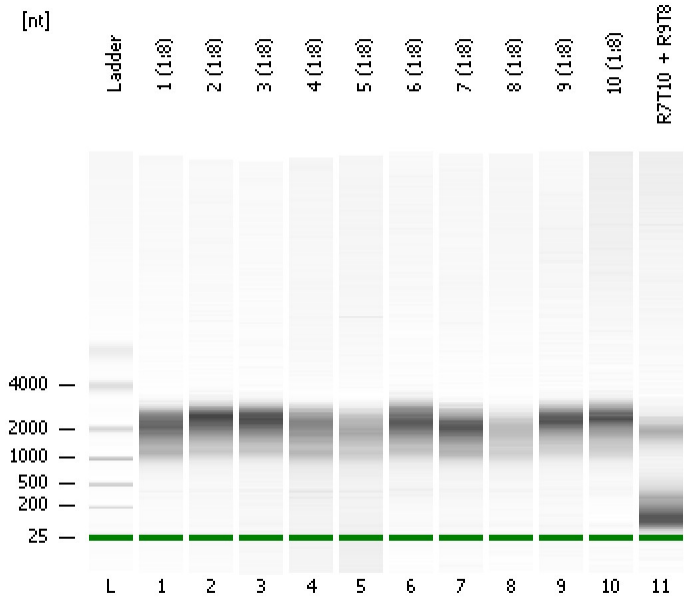


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

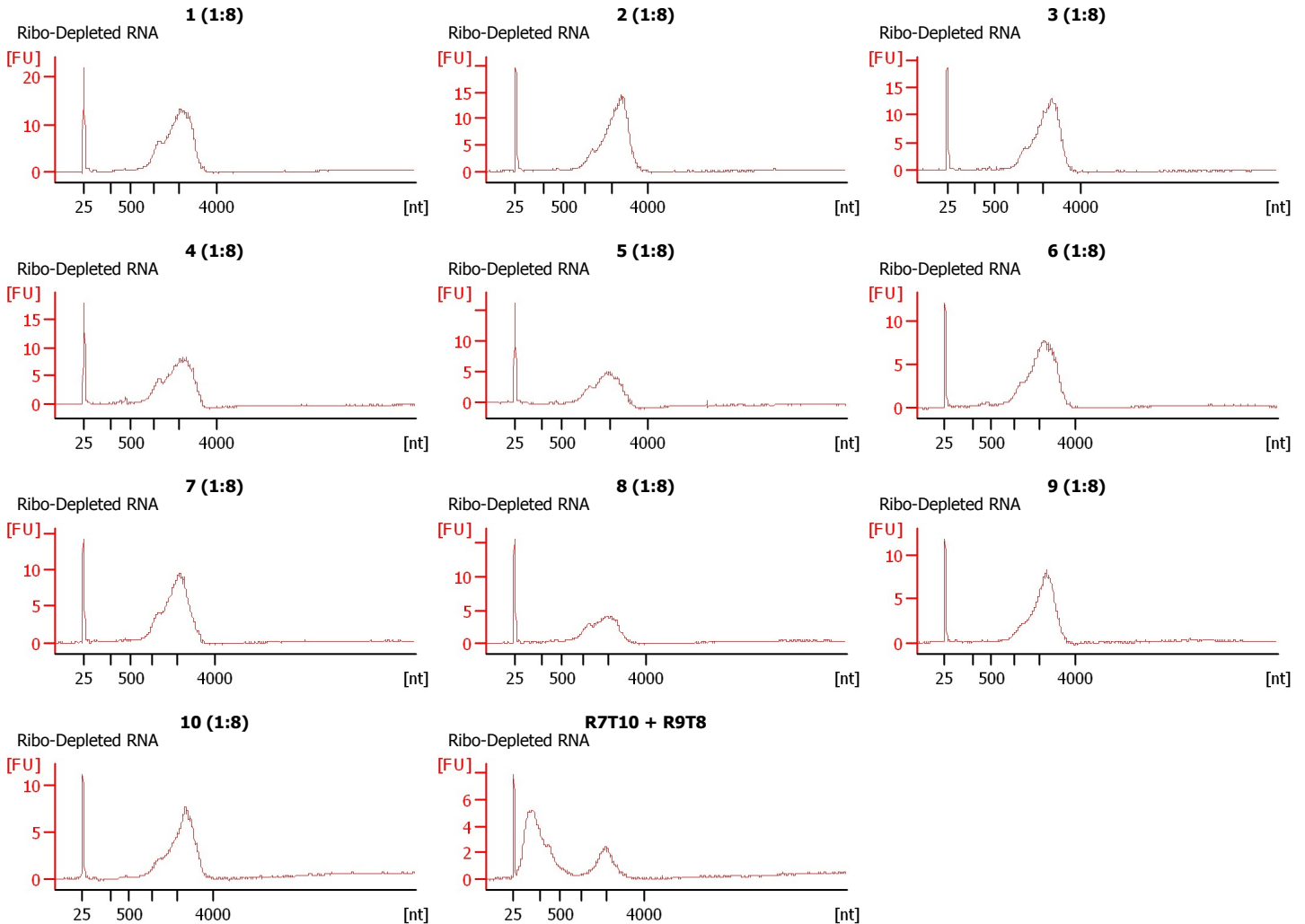
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1 (1:8)	Ribo-Depleted RNA	✓		
2 (1:8)	Ribo-Depleted RNA	✓		
3 (1:8)	Ribo-Depleted RNA	✓		
4 (1:8)	Ribo-Depleted RNA	✓		
5 (1:8)	Ribo-Depleted RNA	✓		
6 (1:8)	Ribo-Depleted RNA	✓		
7 (1:8)	Ribo-Depleted RNA	✓		
8 (1:8)	Ribo-Depleted RNA	✓		
9 (1:8)	Ribo-Depleted RNA	✓		
10 (1:8)	Ribo-Depleted RNA	✓		
R7T10 + R9T8	Ribo-Depleted RNA	✓		
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

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/ μ l] : 1000

Lower Marker Concentration [pg/ μ l] : 0

Upper Marker Concentration [pg/ μ 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

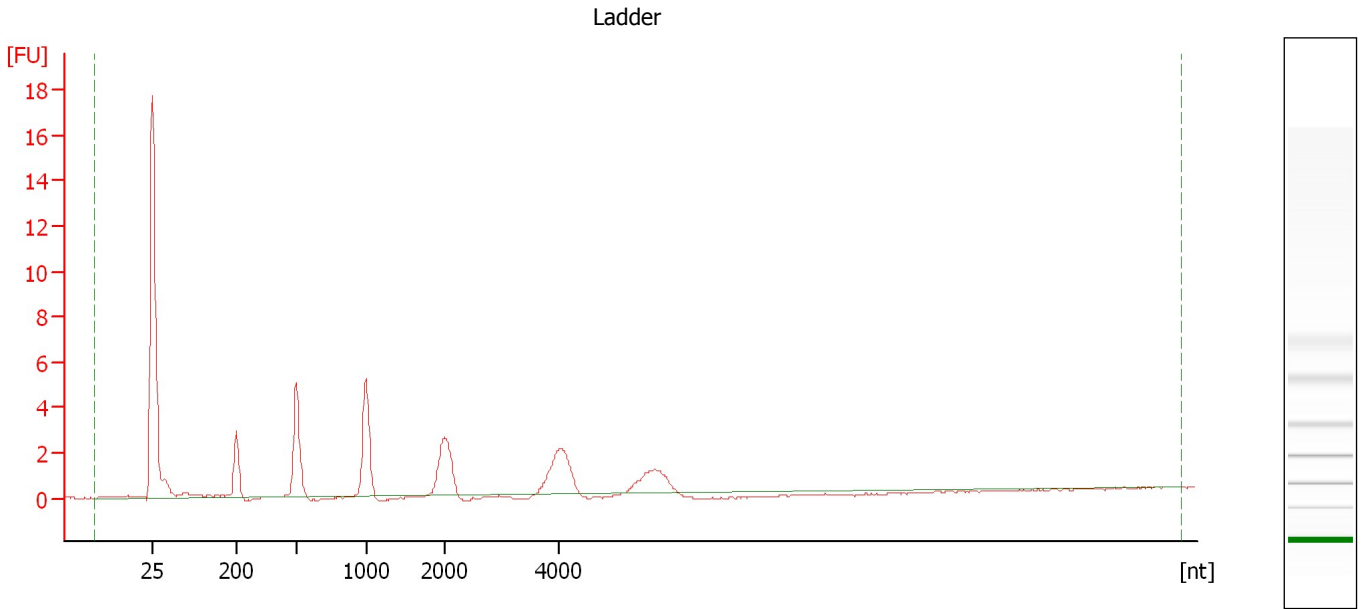
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary



Overall Results for Ladder

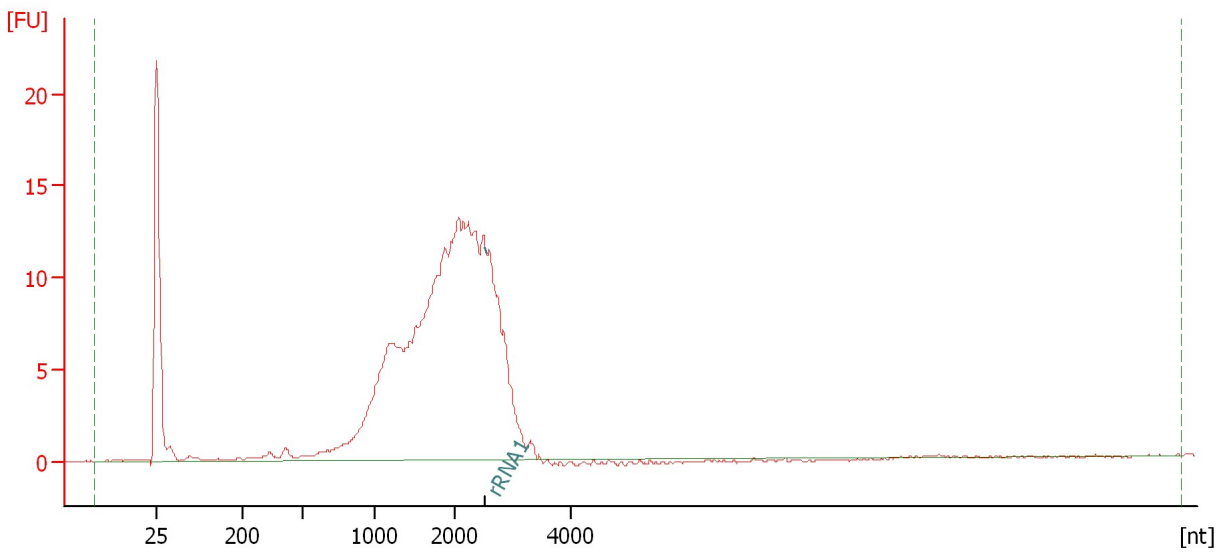
RNA Area: 40.1 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

1 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 1 : 1 (1:8)

RNA Area: 231.9 rRNA Contamination: 0.0 %
RNA Concentration: 5,780 pg/μl

Fragment table for sample 1 : 1 (1:8)

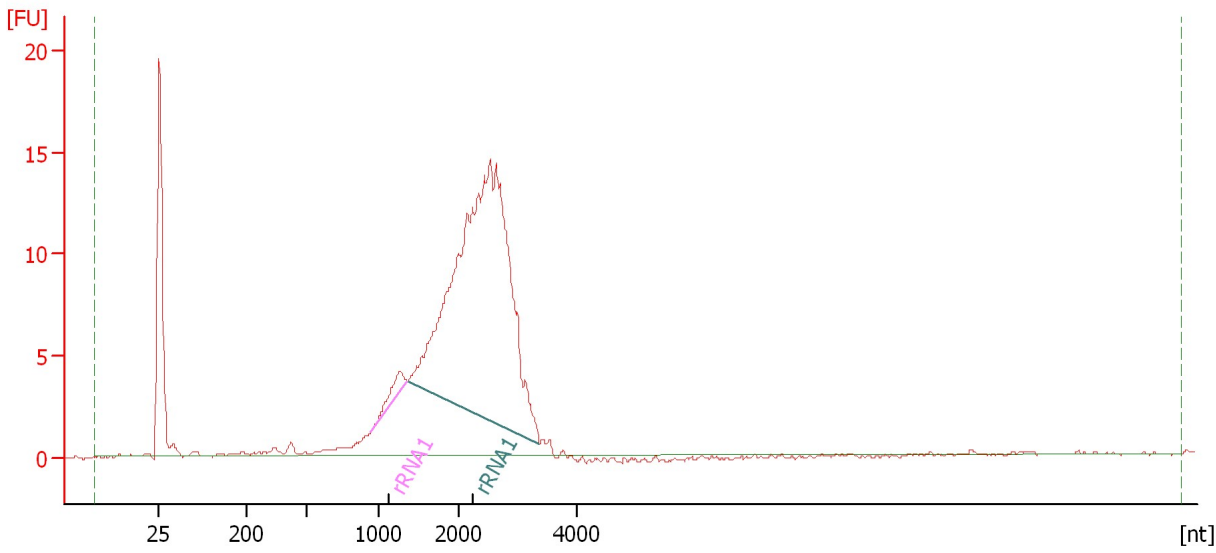
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	2,524	2,552	0.0	0.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

2 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 2 : 2 (1:8)

RNA Area: 204.4 rRNA Contamination: 61.5 %
RNA Concentration: 5,095 pg/μl

Fragment table for sample 2 : 2 (1:8)

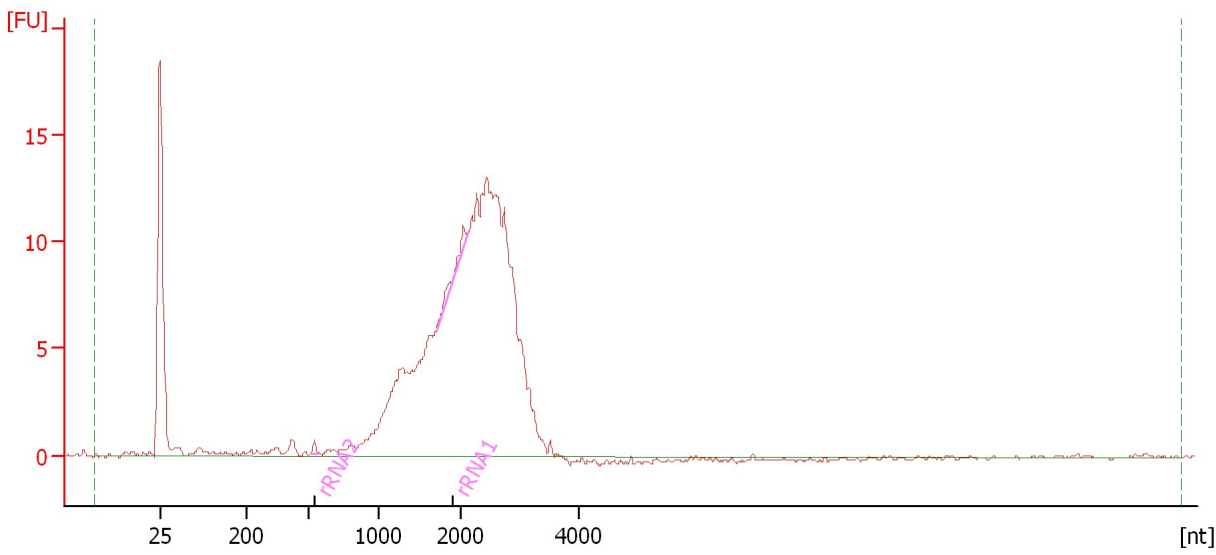
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	954	1,363	3.0	1.5
rRNA1	1,383	3,378	122.7	60.1

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

3 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 3 : 3 (1:8)

RNA Area: 193.0 rRNA Contamination: 1.2 %
RNA Concentration: 4,810 pg/μl

Fragment table for sample 3 : 3 (1:8)

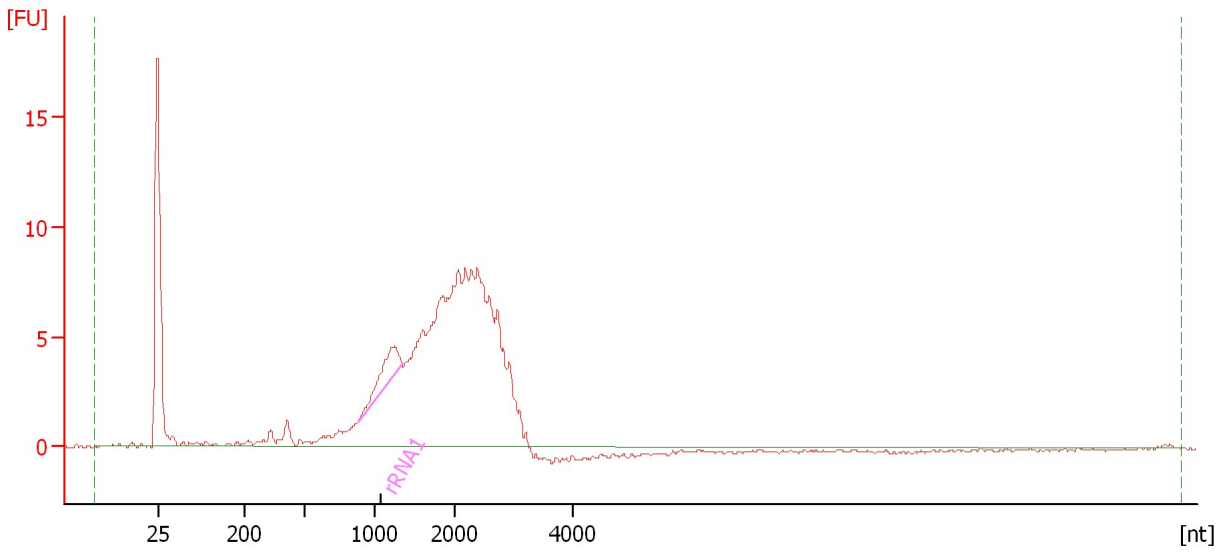
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	513	569	0.5	0.2
rRNA1	1,710	2,157	1.9	1.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

4 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 4 : 4 (1:8)

RNA Area: 152.1 rRNA Contamination: 3.4 %
RNA Concentration: 3,793 pg/μl

Fragment table for sample 4 : 4 (1:8)

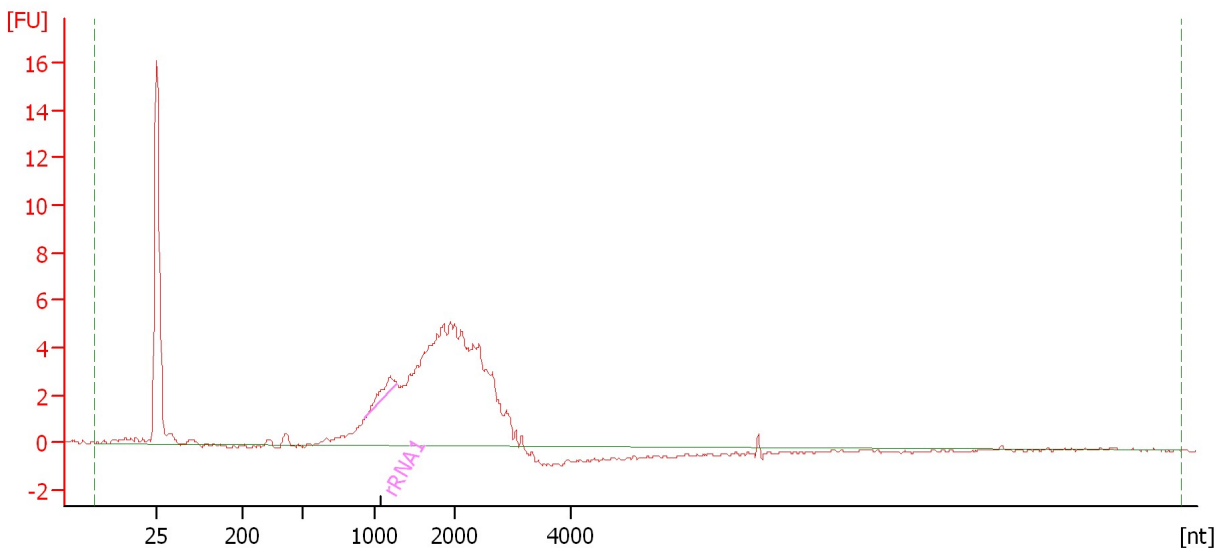
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	882	1,329	5.2	3.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

5 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 5 : 5 (1:8)

RNA Area: 88.3 rRNA Contamination: 2.2 %
RNA Concentration: 2,200 pg/μl

Fragment table for sample 5 : 5 (1:8)

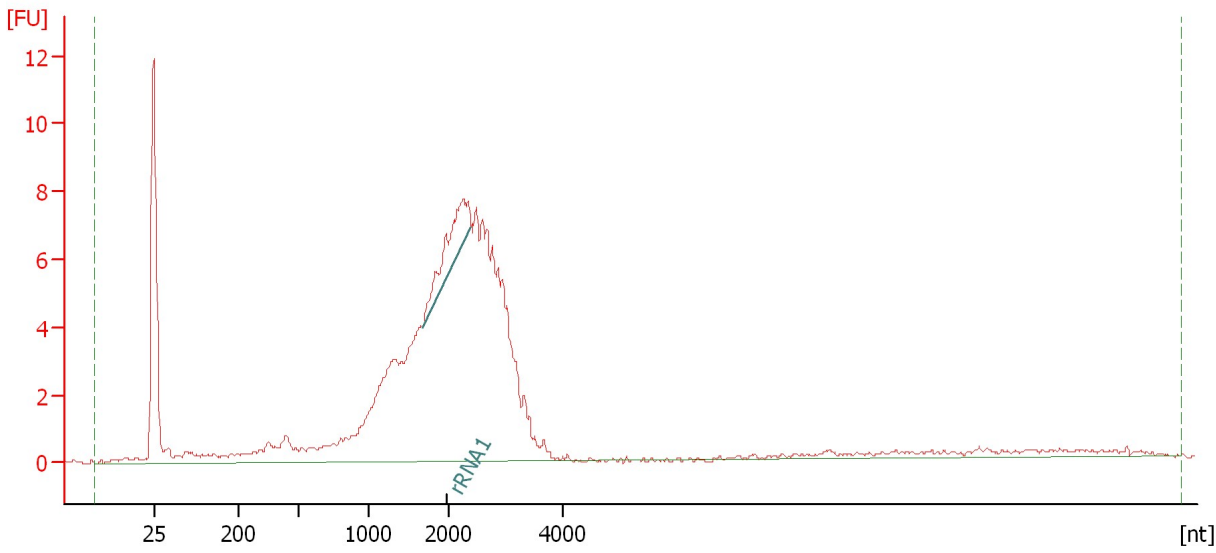
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	937	1,287	1.9	2.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

6 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 6 : 6 (1:8)

RNA Area: 149.5 rRNA Contamination: 4.3 %
RNA Concentration: 3,726 pg/μl

Fragment table for sample 6 : 6 (1:8)

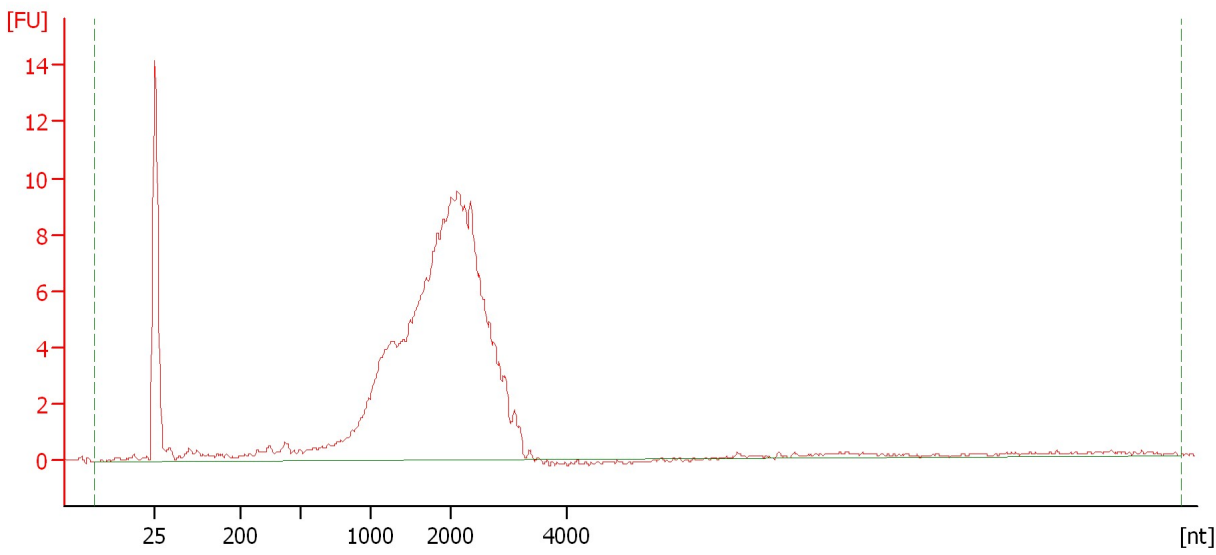
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,679	2,402	6.5	4.3

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

7 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 7 : 7 (1:8)

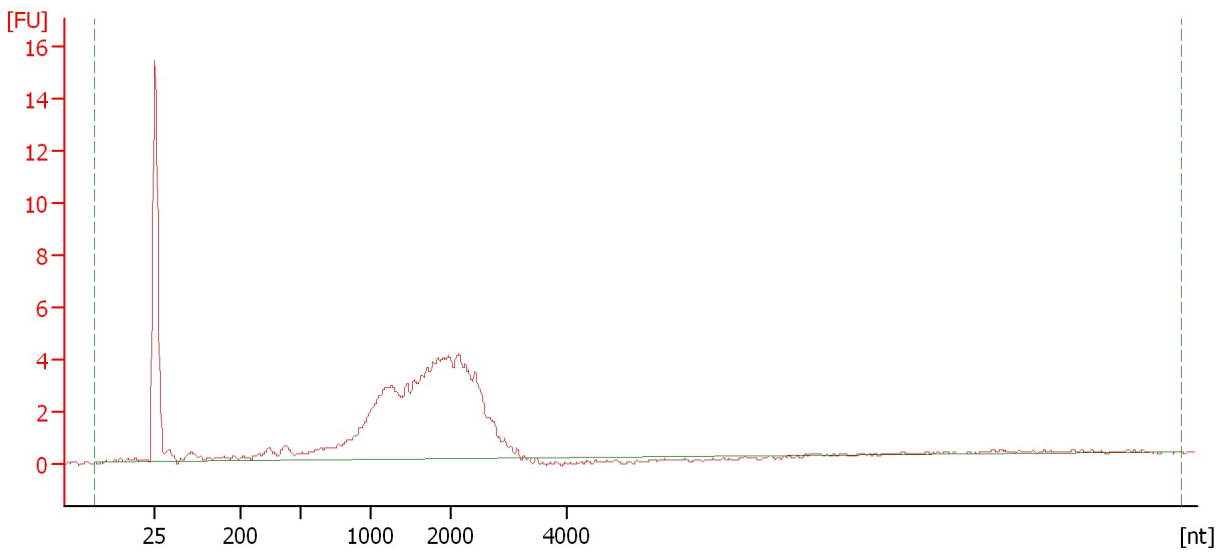
RNA Area:	163.6	rRNA Contamination:	0.0 %
RNA Concentration:	4,078 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

8 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 8 : 8 (1:8)

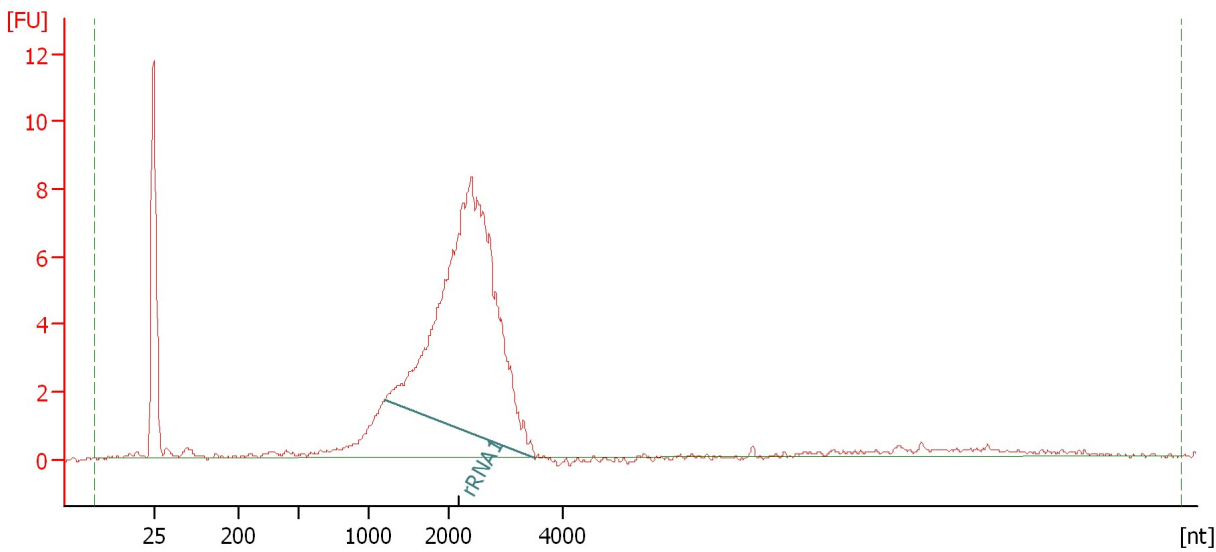
RNA Area: 85.3 rRNA Contamination: 0.0 %
RNA Concentration: 2,127 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

9 (1:8) [Ribo-Depleted RNA]



Overall Results for sample 9 : 9 (1:8)

RNA Area: 112.7 rRNA Contamination: 66.7 %
RNA Concentration: 2,809 pg/μl

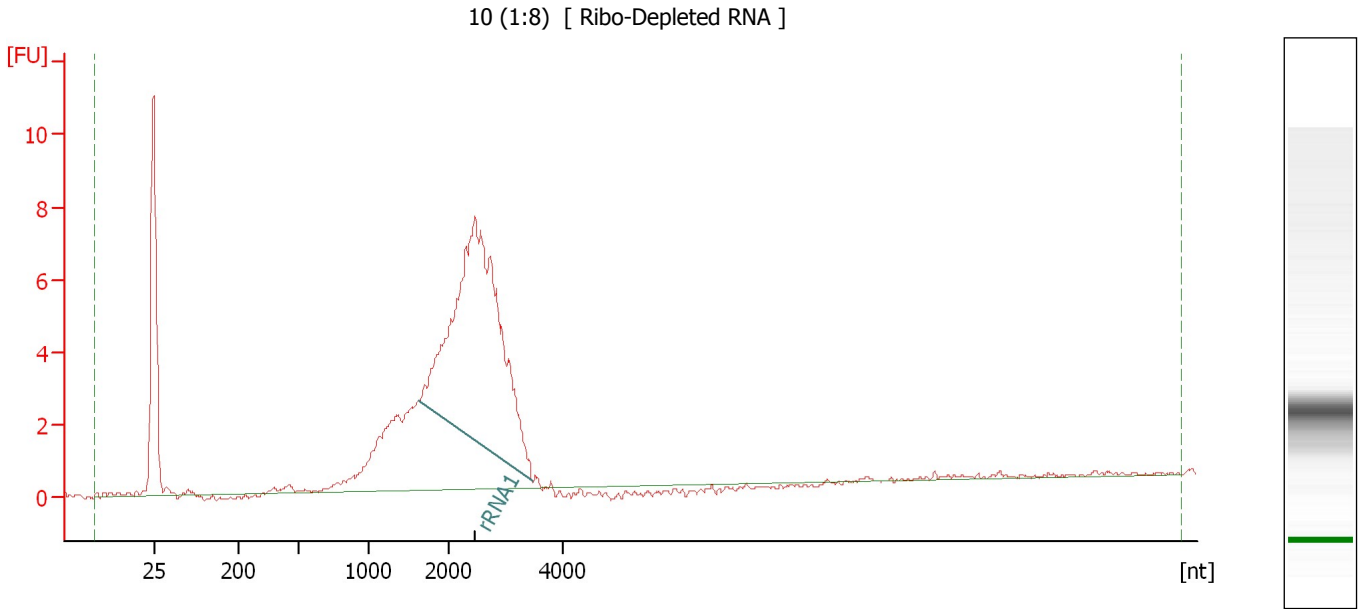
Fragment table for sample 9 : 9 (1:8)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,203	3,507	75.1	66.7

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 10 (1:8)

RNA Area: 100.4 rRNA Contamination: 52.5 %
RNA Concentration: 2,502 pg/μl

Fragment table for sample 10 : 10 (1:8)

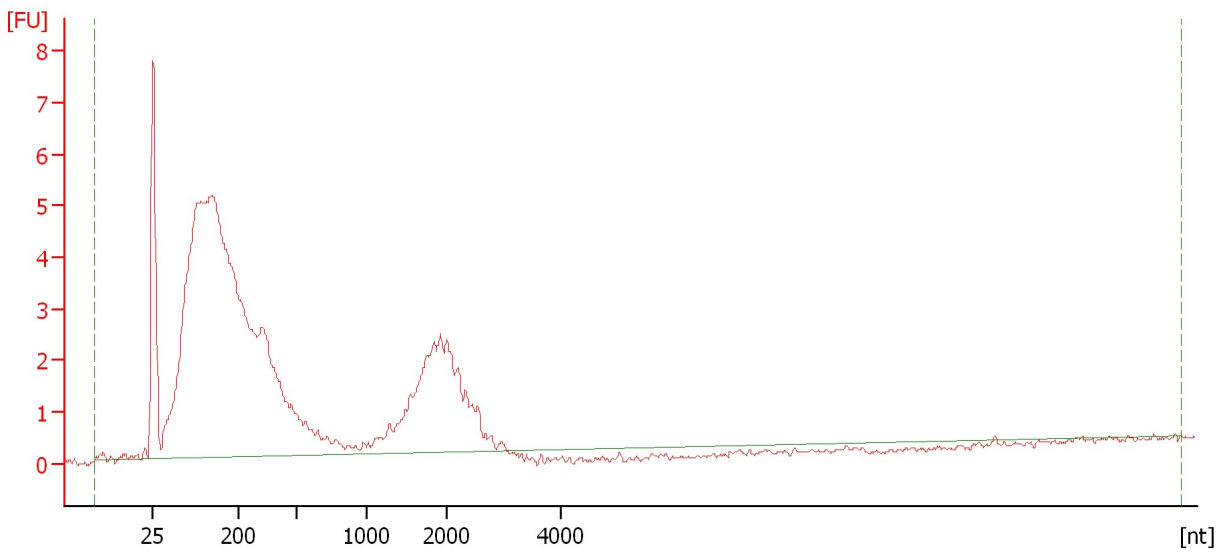
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,639	3,466	52.7	52.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Electropherogram Summary Continued ...

R7T10 + R9T8 [Ribo-Depleted RNA]



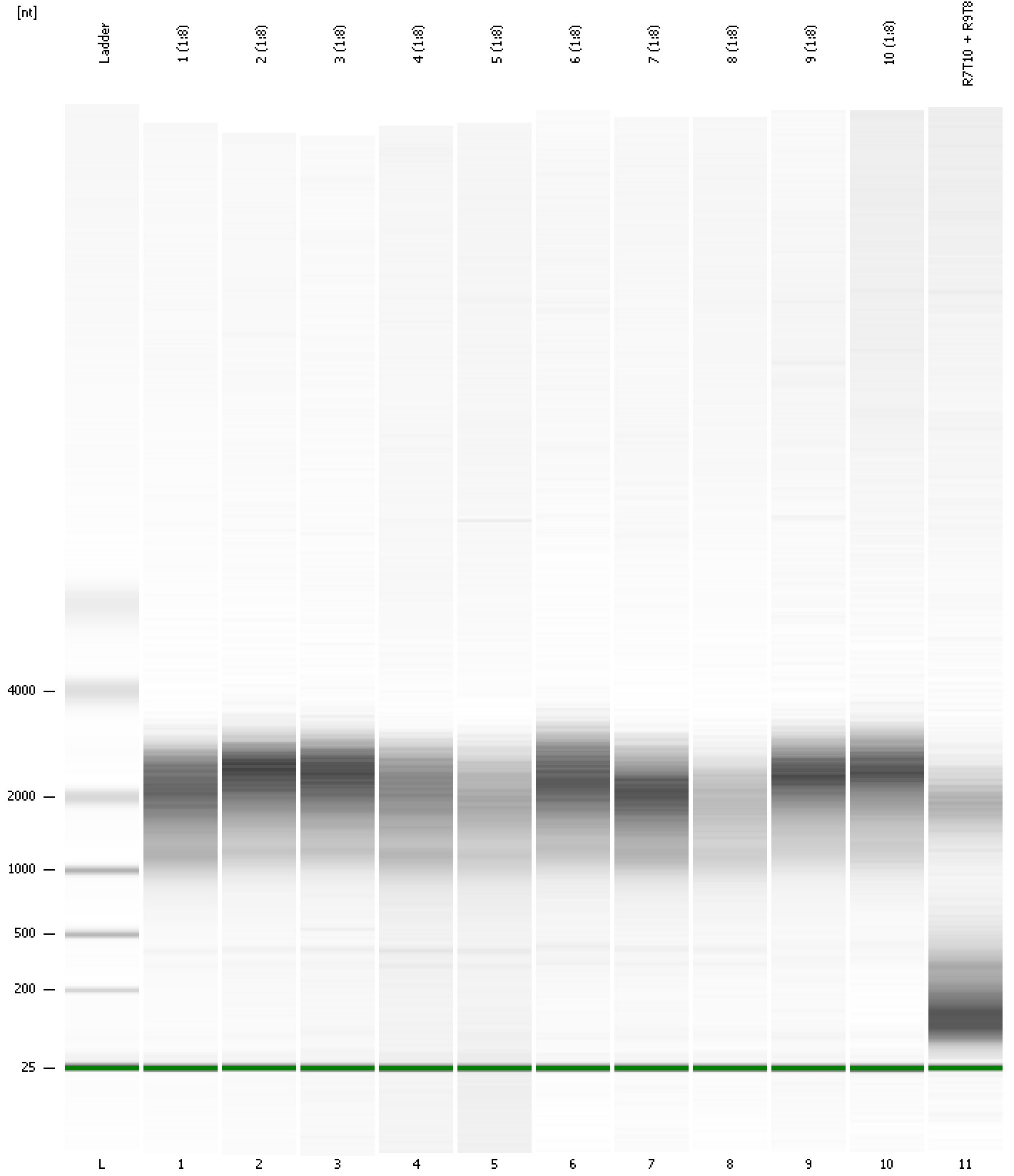
Overall Results for sample 11 : R7T10 + R9T8

RNA Area: 128.2 rRNA Contamination: 0.0 %
RNA Concentration: 3,197 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Gel Image

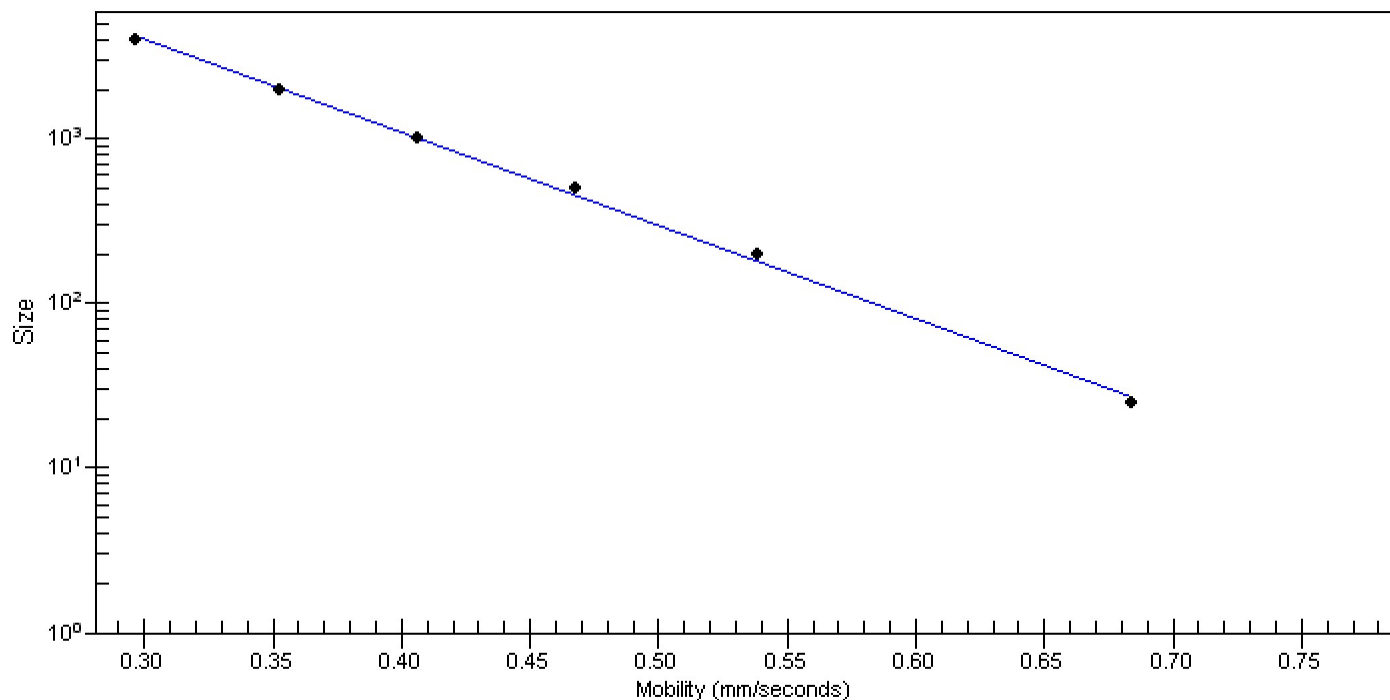


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
Modified: 4/26/2016 2:45:34 PM

Curves

Standard Curve



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_003.xad

Created: 4/26/2016 2:20:34 PM
 Modified: 4/26/2016 2:45:34 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		4/26/2016 2:45:31 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\2016-04-26\2016-04-26_003.xad)		Instrument	Run		4/26/2016 2:20:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/26/2016 2:20:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/26/2016 2:20:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/26/2016 2:20:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/26/2016 2:20:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/26/2016 2:20:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/26/2016 2:20:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1