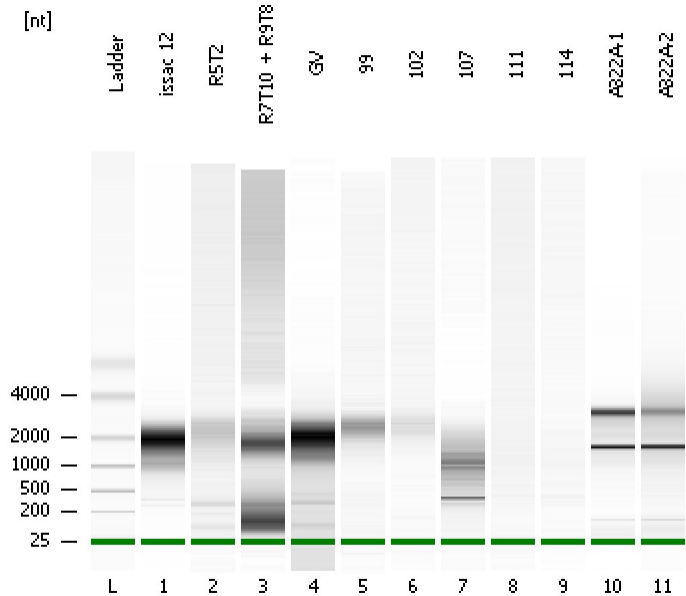


Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

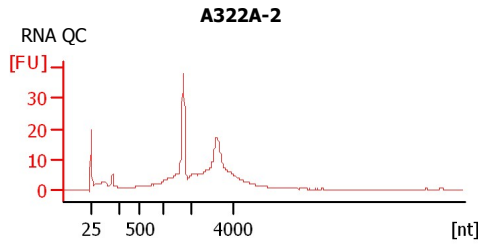
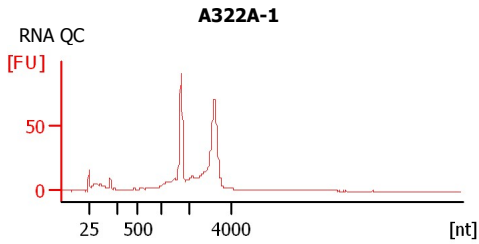
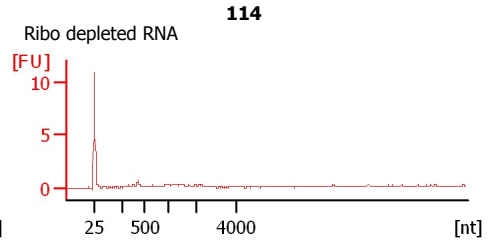
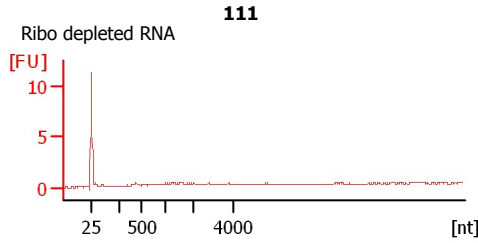
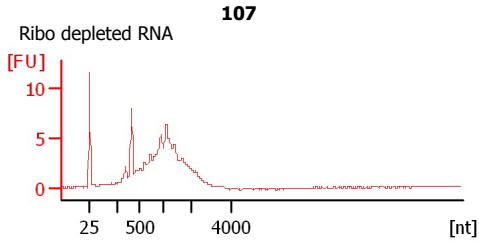
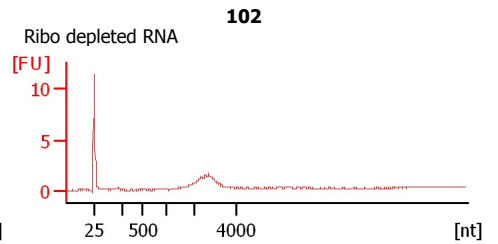
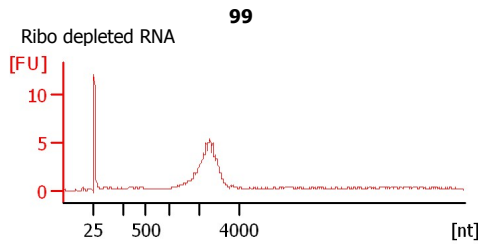
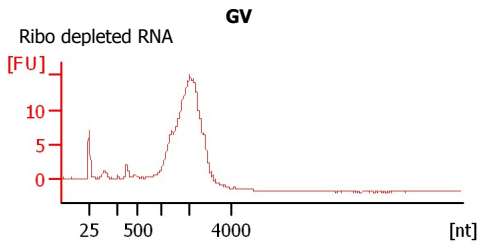
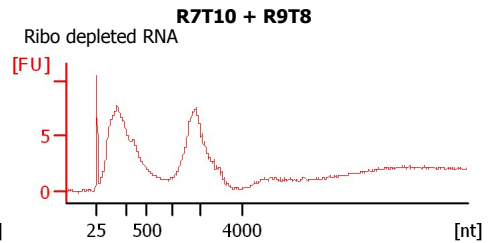
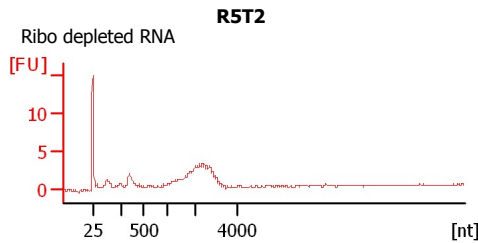
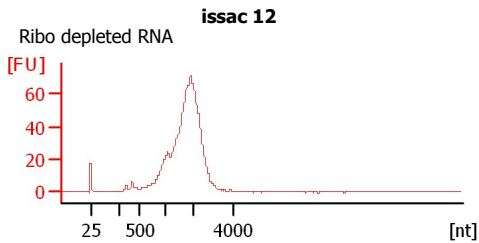
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
issac 12	Ribo depleted RNA	✓		
R5T2	Ribo depleted RNA	✓		
R7T10 + R9T8	Ribo depleted RNA	✓		
GV	Ribo depleted RNA	✓		
99	Ribo depleted RNA	✓		
102	Ribo depleted RNA	✓		
107	Ribo depleted RNA	✓		
111	Ribo depleted RNA	✓		
114	Ribo depleted RNA	✓		
A322A-1	RNA QC	✓		
A322A-2	RNA QC	✓		
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\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

## 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

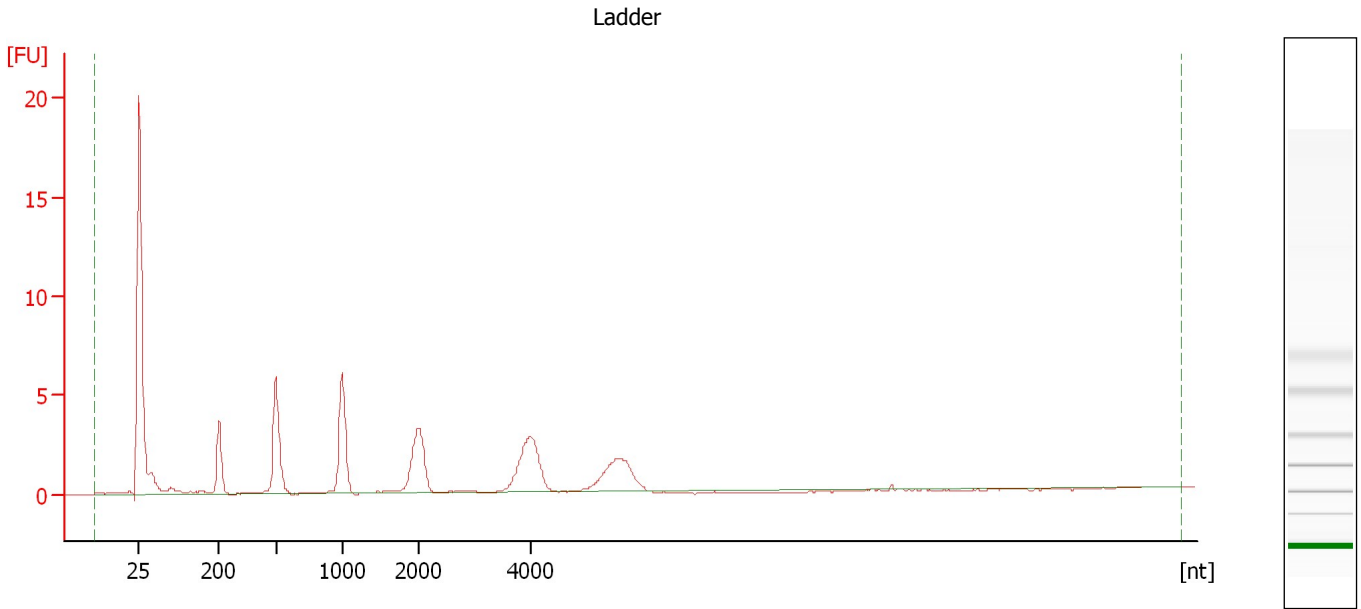
### Ladder

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

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary**



**Overall Results for Ladder**

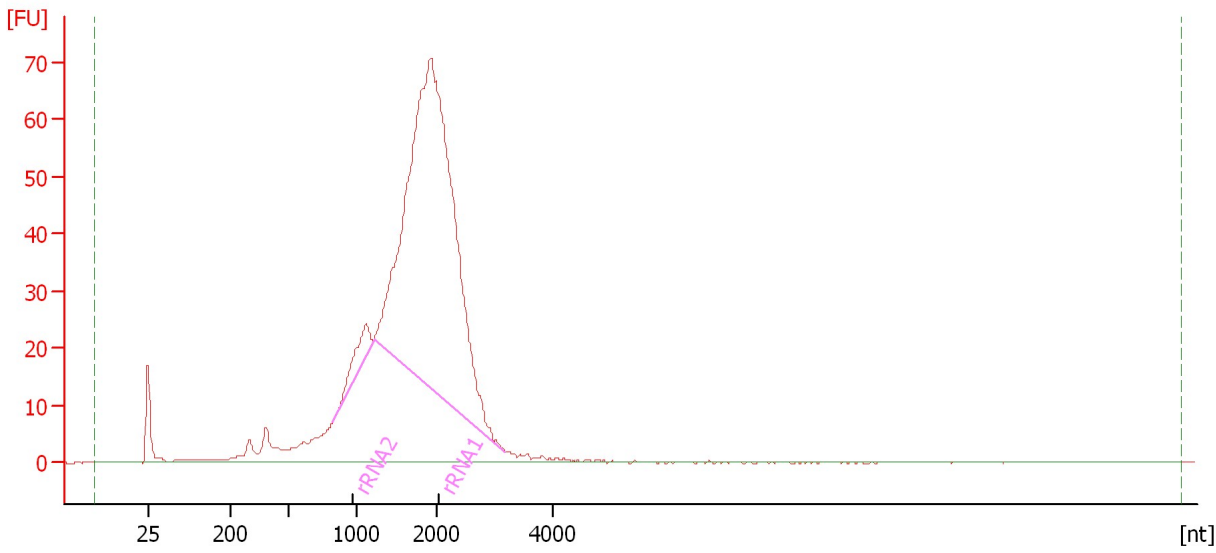
RNA Area: 52.2                      RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**

issac 12 [ Ribo depleted RNA ]



**Overall Results for sample 1 : issac 12**

RNA Area: 1,026.6                      rRNA Contamination: 54.4 %  
RNA Concentration: 19,683 pg/μl

**Fragment table for sample 1 : issac 12**

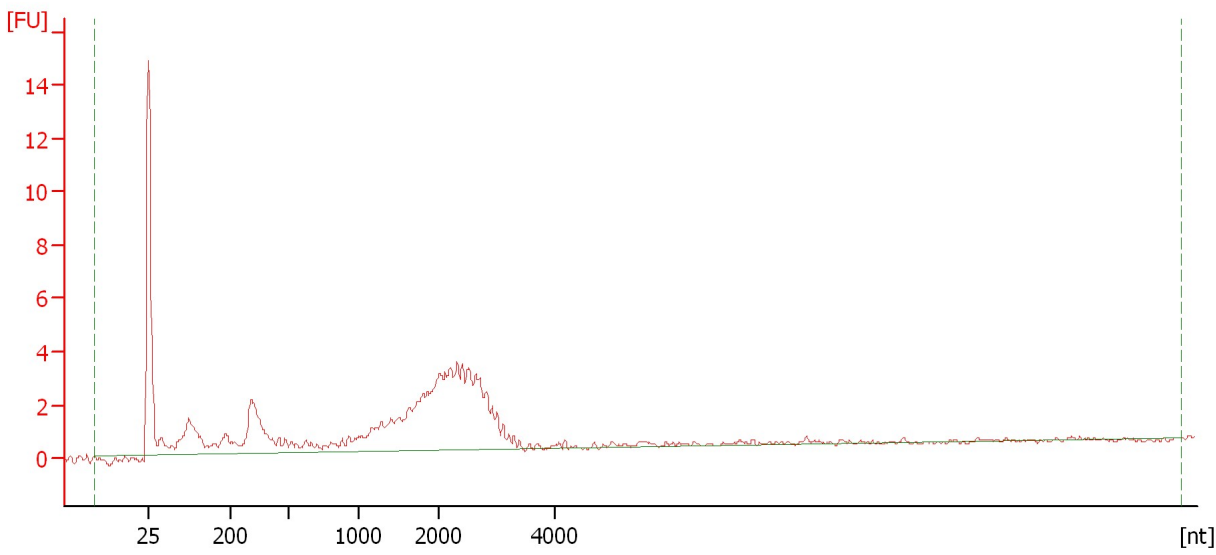
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	827	1,215	21.7	2.1
rRNA1	1,215	3,181	537.0	52.3

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**

R5T2 [ Ribo depleted RNA ]



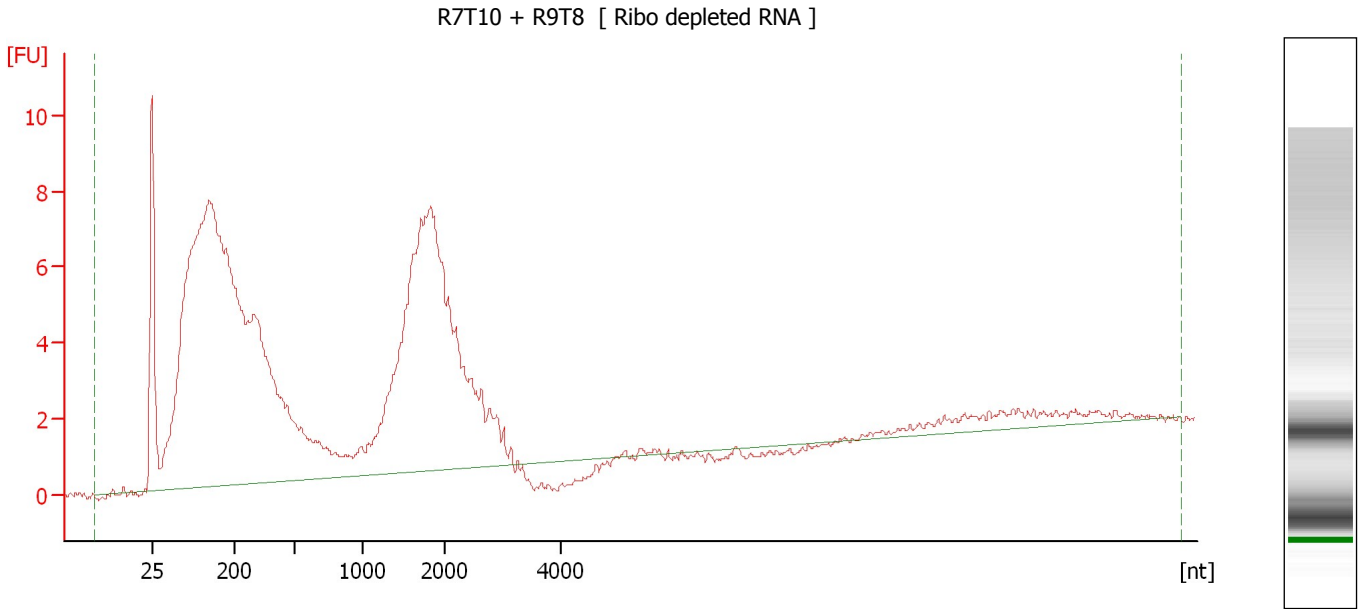
**Overall Results for sample 2 : R5T2**

RNA Area: 71.1                      rRNA Contamination: 0.0 %  
RNA Concentration: 1,363 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**



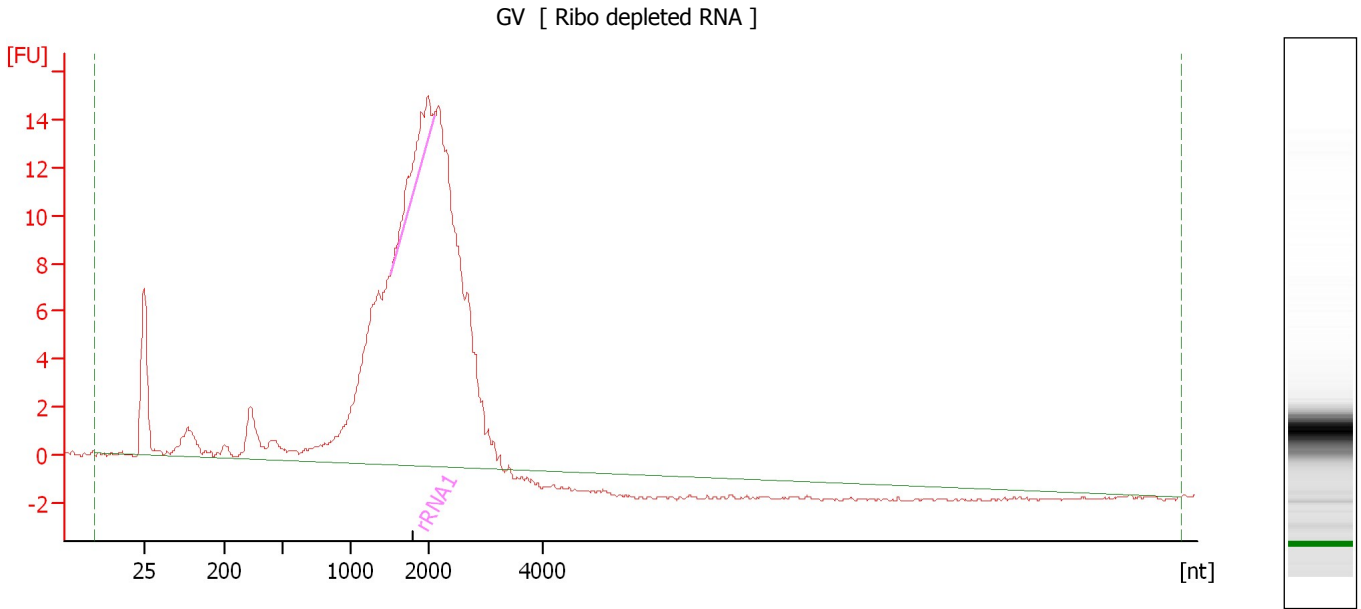
**Overall Results for sample 3 : R7T10 + R9T8**

RNA Area: 249.2                      rRNA Contamination: 0.0 %  
RNA Concentration: 4,778 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : GV**

RNA Area: 240.1                      rRNA Contamination: 3.1 %  
RNA Concentration: 4,603 pg/μl

**Fragment table for sample 4 : GV**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,516	2,103	7.5	3.1

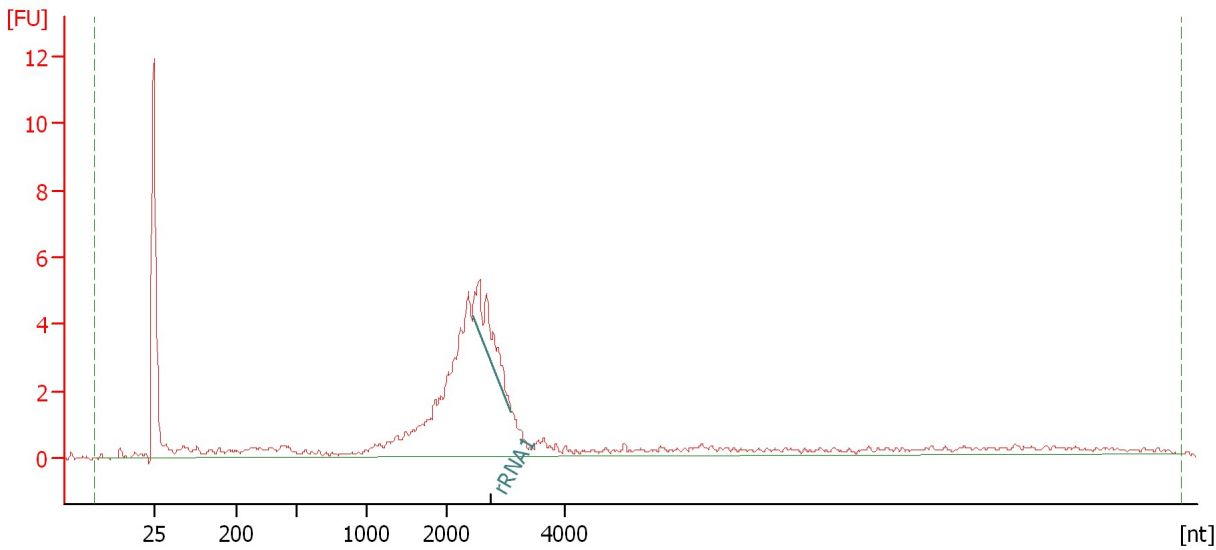


Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**

99 [ Ribo depleted RNA ]



**Overall Results for sample 5 : 99**

RNA Area: 70.6                      rRNA Contamination: 6.8 %  
RNA Concentration: 1,353 pg/μl

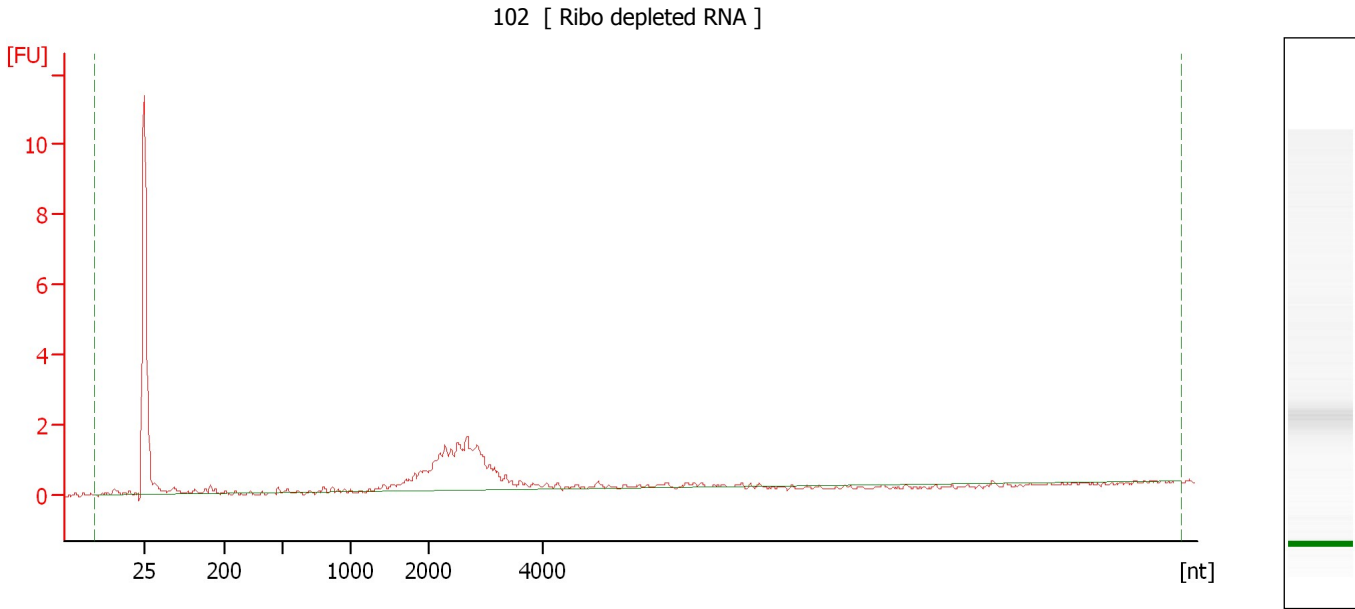
**Fragment table for sample 5 : 99**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	2,435	3,084	4.8	6.8

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 102**

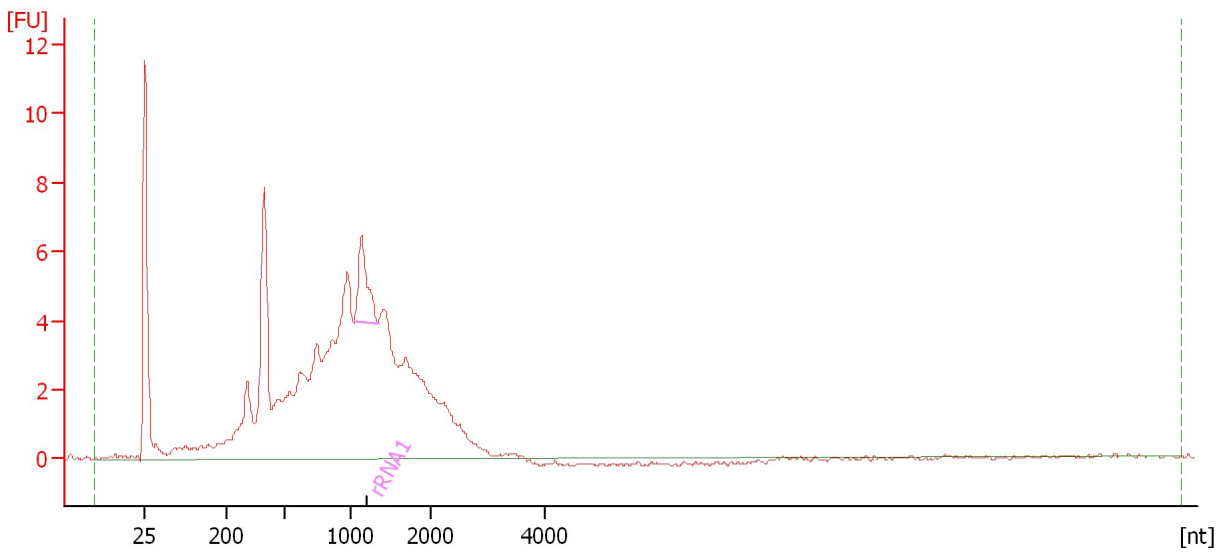
RNA Area: 18.9                      rRNA Contamination: 0.0 %  
RNA Concentration: 362 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**

107 [ Ribo depleted RNA ]



**Overall Results for sample 7 : 107**

RNA Area: 138.7                      rRNA Contamination: 3.5 %  
RNA Concentration: 2,660 pg/μl

**Fragment table for sample 7 : 107**

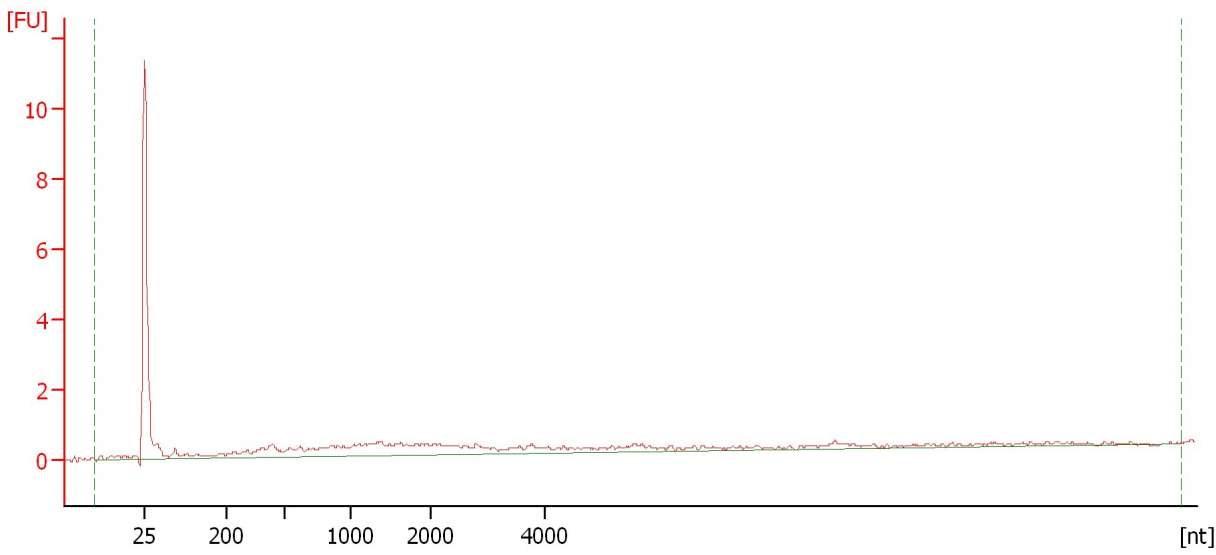
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,043	1,336	4.8	3.5

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**

111 [ Ribo depleted RNA ]



**Overall Results for sample 8 : 111**

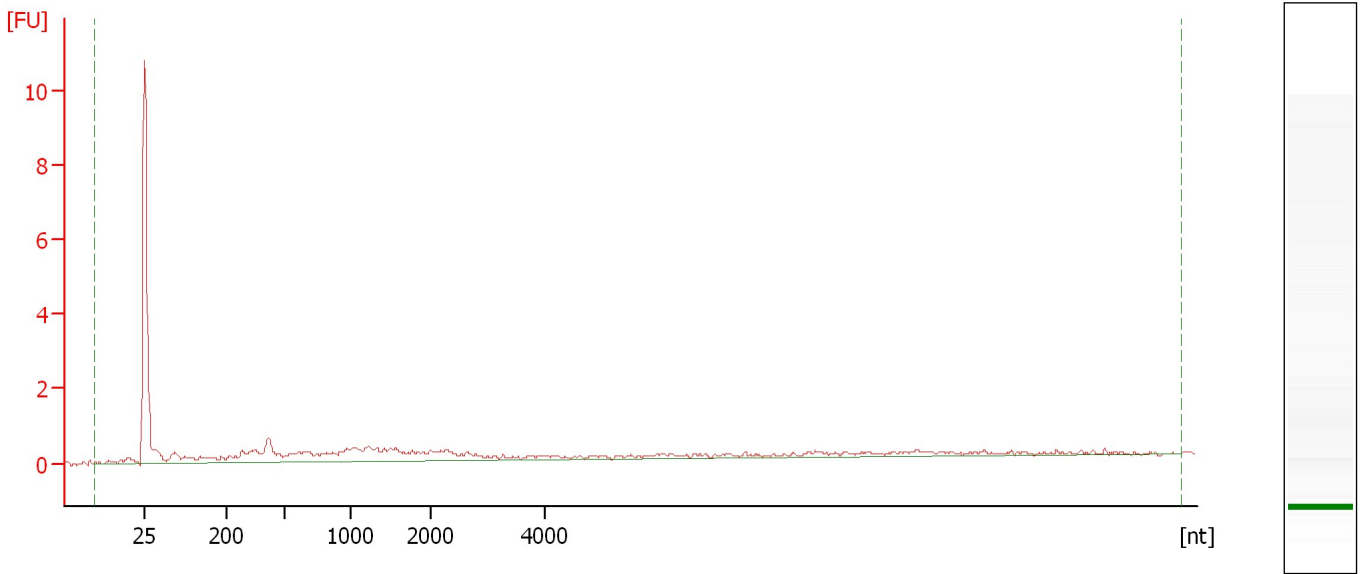
RNA Area: 20.9                      rRNA Contamination: 0.0 %  
RNA Concentration: 401 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**

114 [ Ribo depleted RNA ]



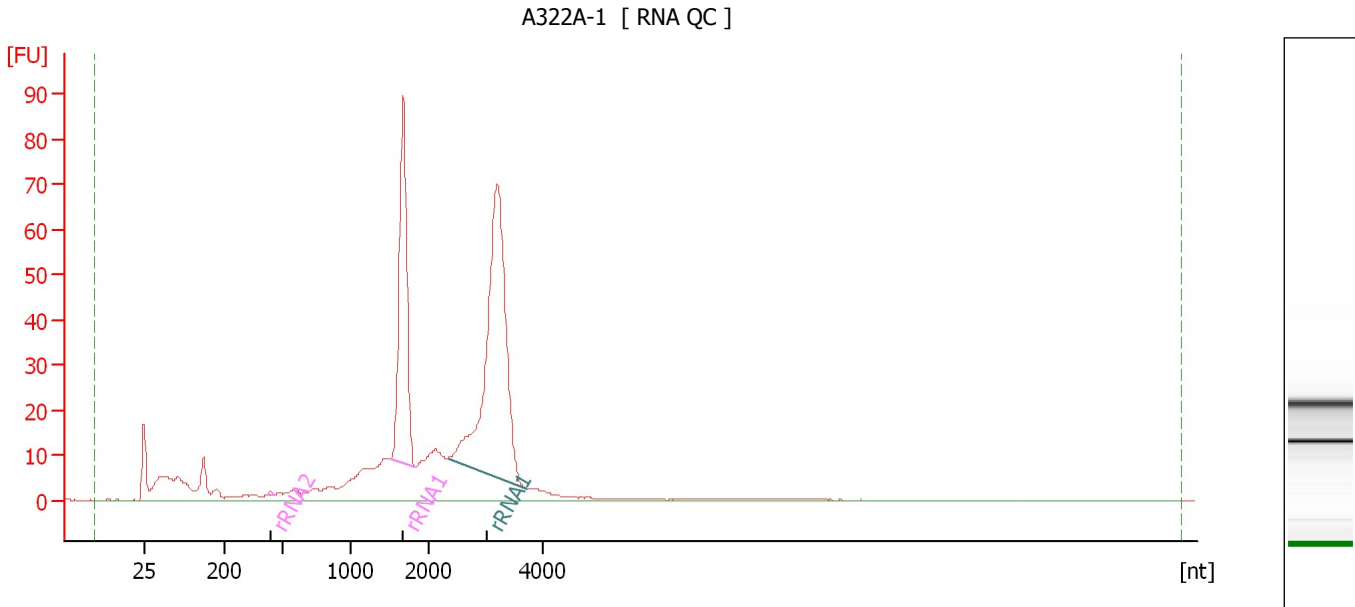
**Overall Results for sample 9 : 114**

RNA Area: 19.4                      rRNA Contamination: 0.0 %  
RNA Concentration: 372 pg/μl

Assay Class: mRNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
 Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : A322A-1**

RNA Area: 727.5                      rRNA Contamination: 48.7 %  
 RNA Concentration: 13,947 pg/μl

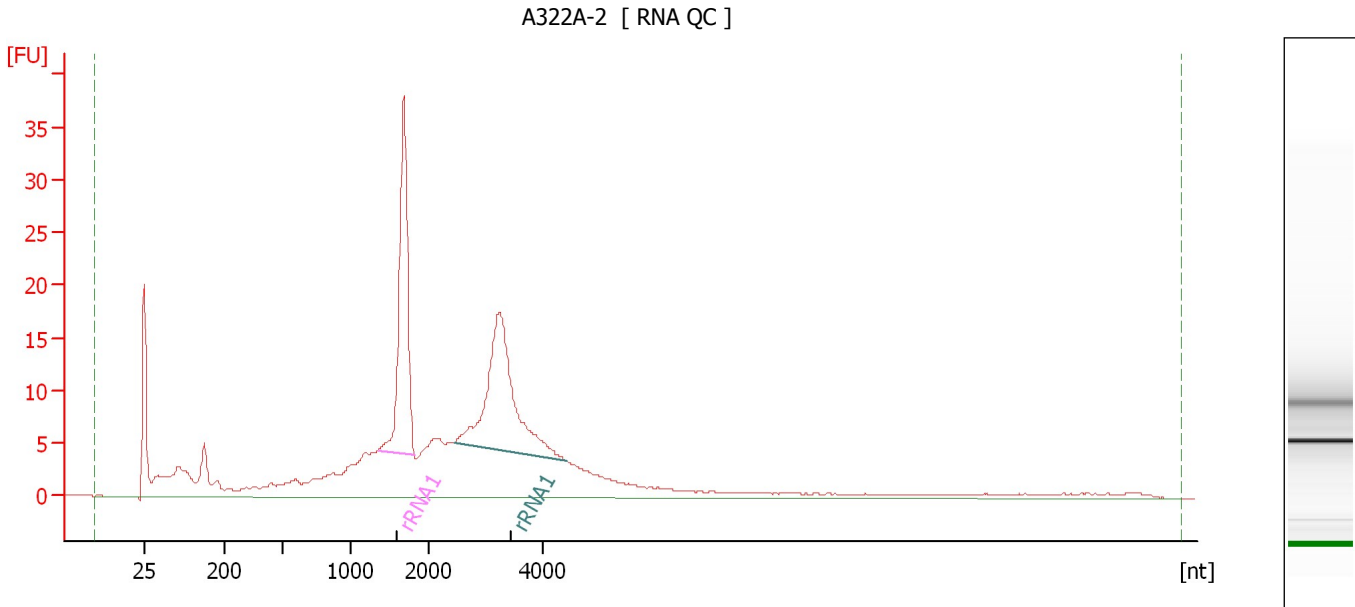
**Fragment table for sample 10 : A322A-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	422	455	0.5	0.1
rRNA1	1,516	1,831	131.4	18.1
rRNA1	2,340	3,708	222.4	30.6

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : A322A-2**

RNA Area: 396.5                      rRNA Contamination: 30.8 %  
RNA Concentration: 7,603 pg/μl

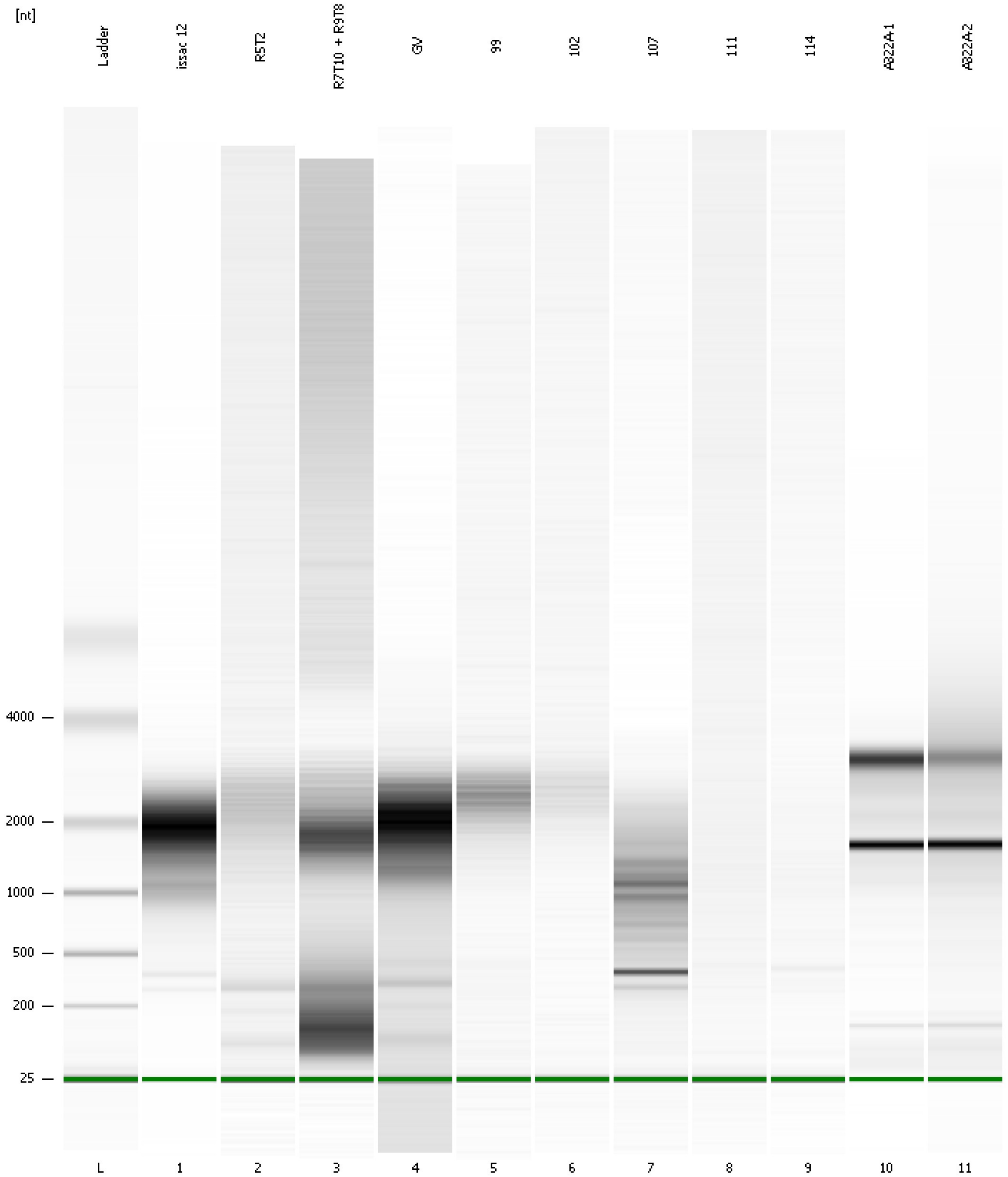
**Fragment table for sample 11 : A322A-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,354	1,821	60.0	15.1
rRNA1	2,452	4,434	61.9	15.6

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Gel Image**



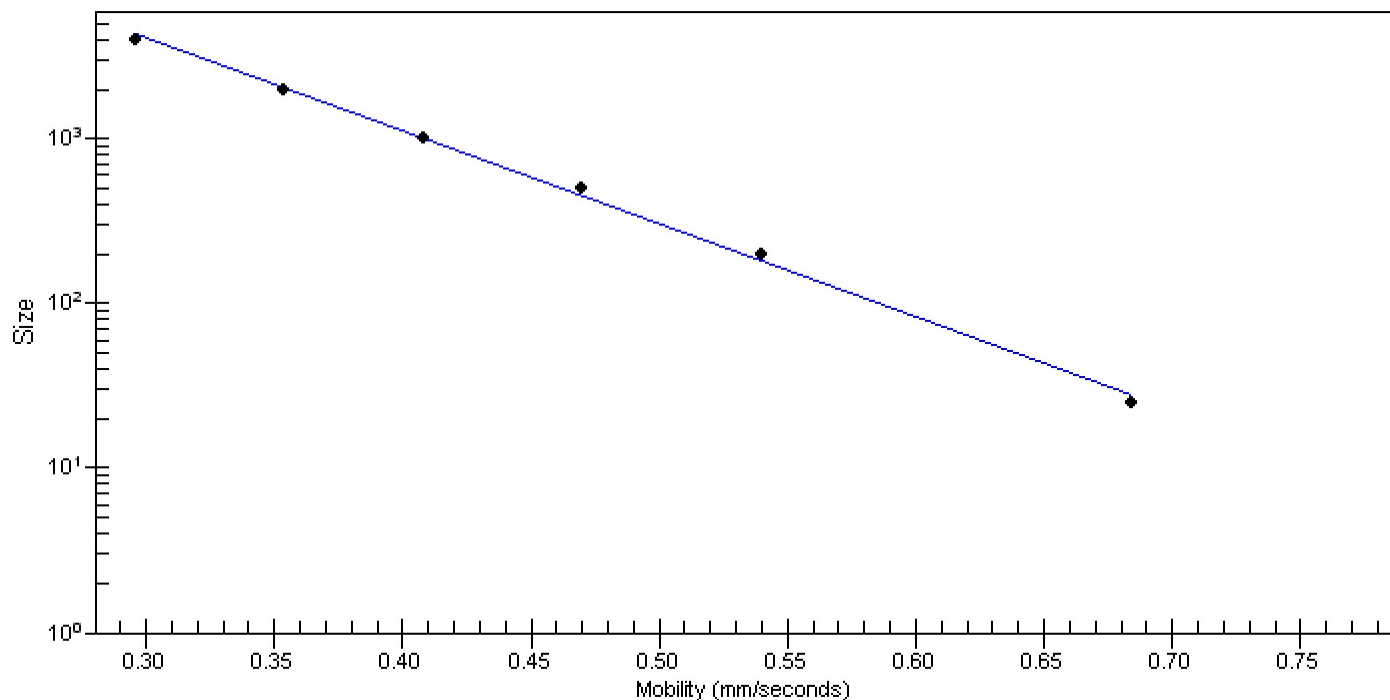


Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 11:47:41 AM

**Curves**

**Standard Curve**



Assay Class: mRNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-26\2016-04-26\_001.xad

Created: 4/26/2016 11:21:47 AM  
 Modified: 4/26/2016 11:47:41 AM

**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 11:47:40 AM	(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_001.xad)		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1