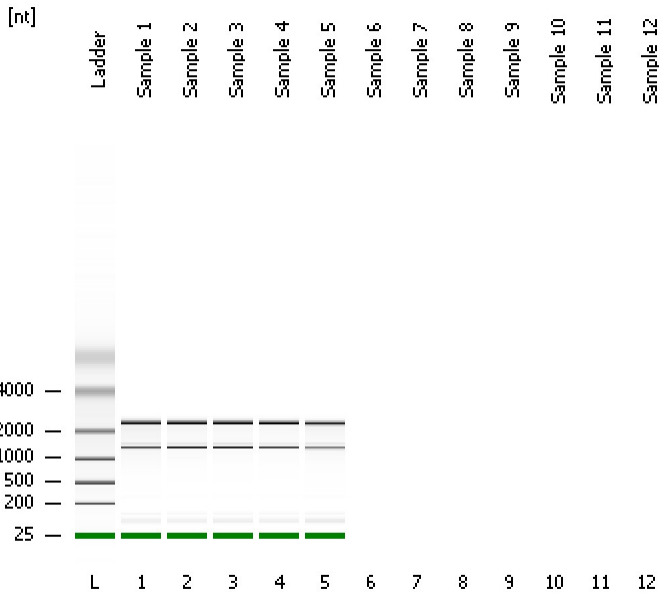


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 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 Nano Series II.xsy

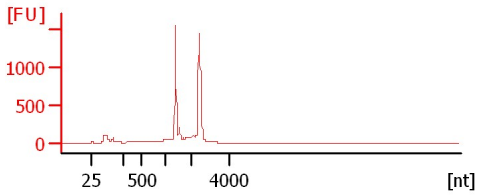
Assay Class: mRNA Nano  
Version: 2.5  
Assay Comments: mRNA Analysis ng sensitivity

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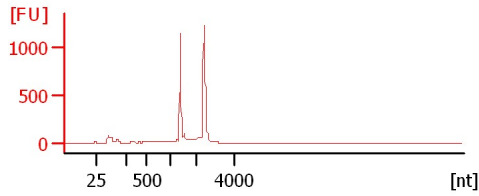
Chip Information:

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

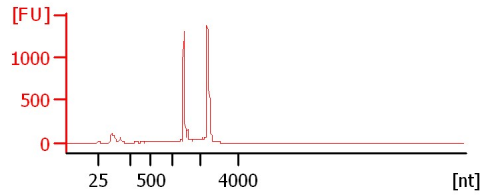
**Sample 1**



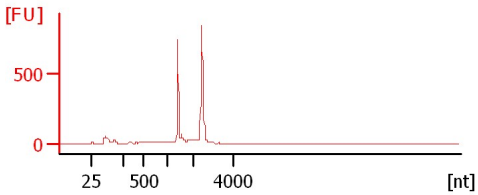
**Sample 2**



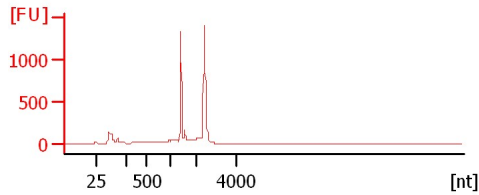
**Sample 3**



**Sample 4**



**Sample 5**



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓		
Sample 2		✓		
Sample 3		✓		
Sample 4		✓		
Sample 5		✓		
Sample 6				
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Sample 12				
Ladder		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13

Minimum Visible Range [s] : 14

Maximum Visible Range [s] : 85

Start Analysis Time Range [s] : 15

End Analysis Time Range [s] : 84

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] : 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

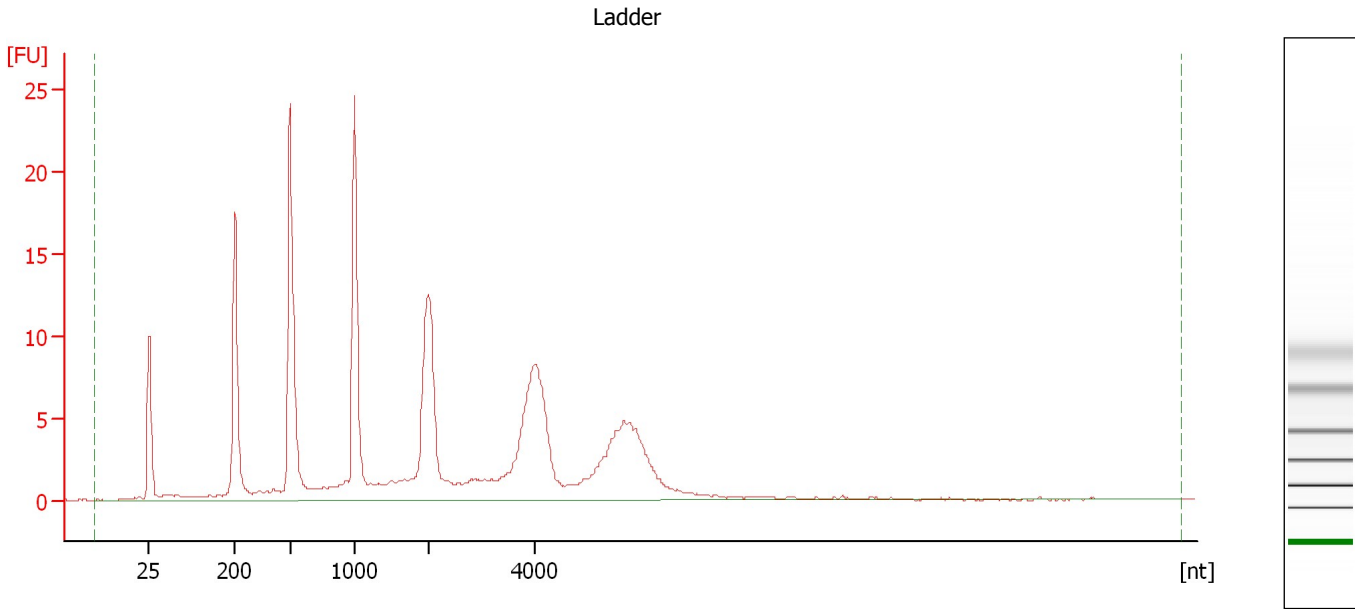
### Ladder

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

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Electropherogram Summary**



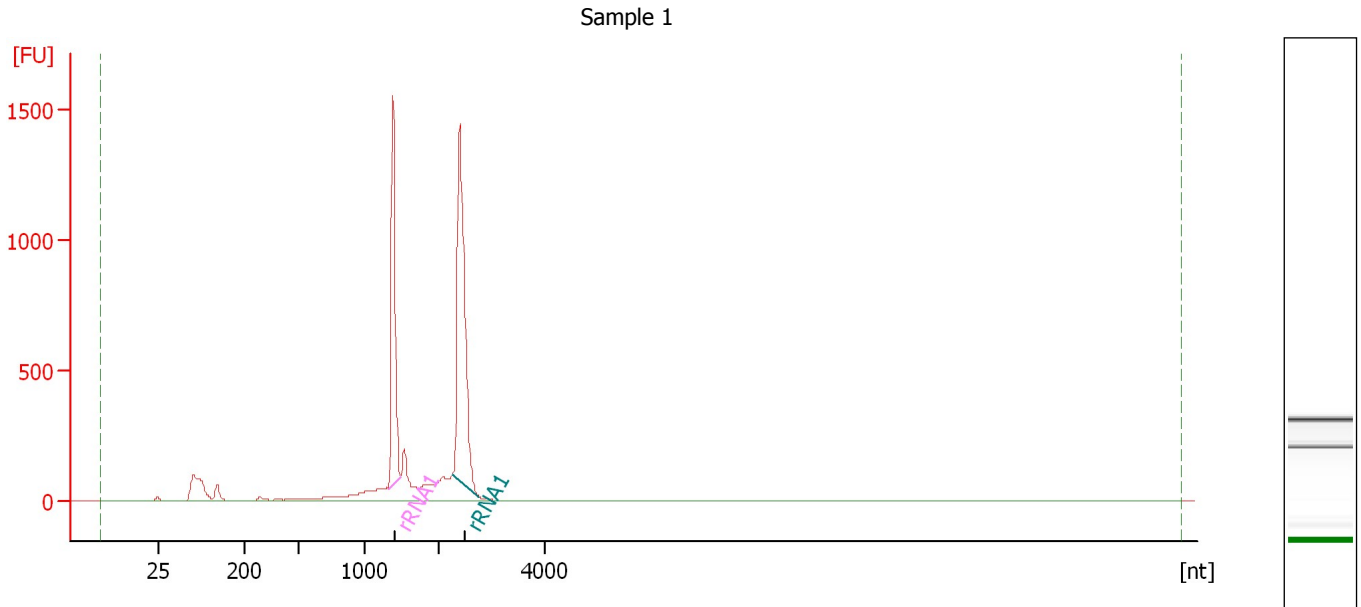
**Overall Results for Ladder**

RNA Area: 227.8                      RNA Concentration: 150 ng/μl

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

RNA Area: 5,372.4                      rRNA Contamination: 58.1 %  
RNA Concentration: 3,537 ng/μl

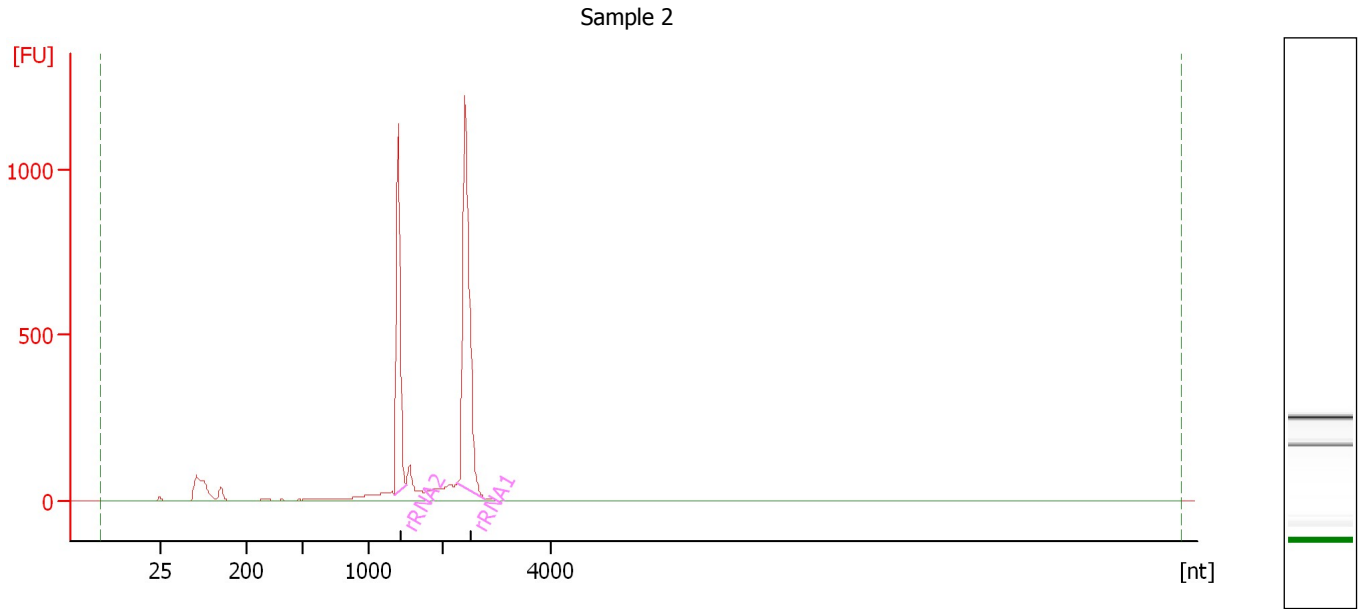
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,333	1,482	1,238.9	23.1
rRNA1	2,243	2,764	1,879.9	35.0

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area: 3,651.4                      rRNA Contamination: 64.1 %  
RNA Concentration: 2,404 ng/μl

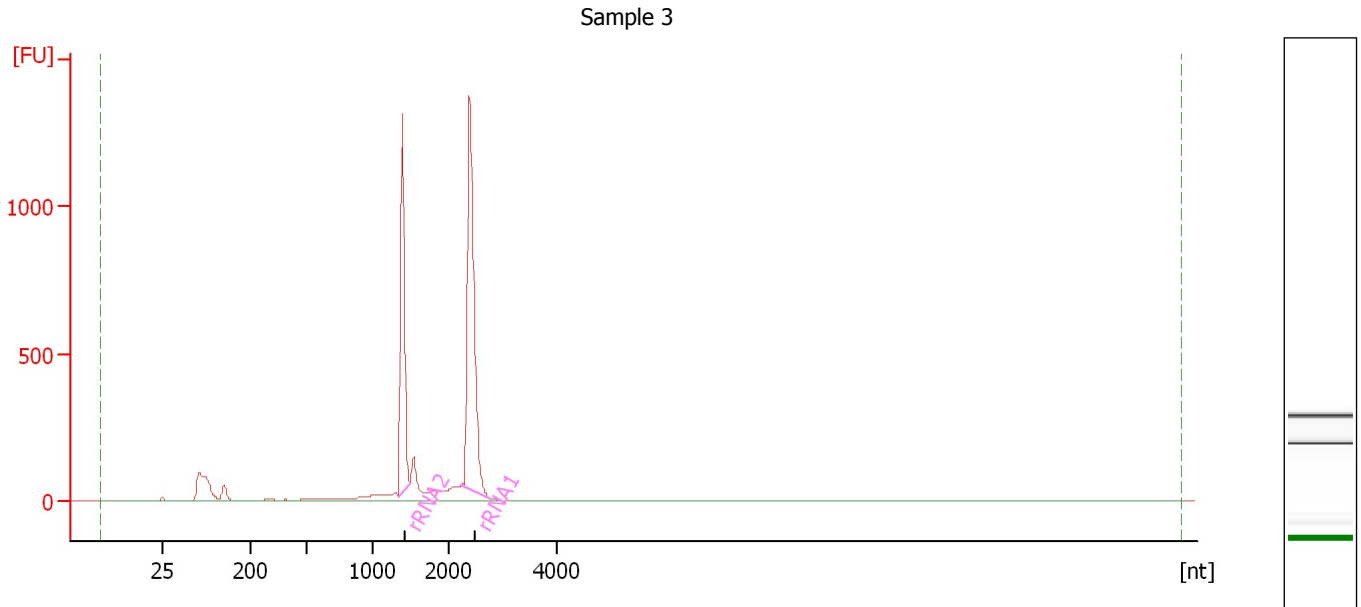
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,341	1,499	905.6	24.8
rRNA1	2,260	2,762	1,433.4	39.3

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area: 4,167.5                      rRNA Contamination: 64.4 %  
RNA Concentration: 2,744 ng/μl

**Fragment table for sample 3 : Sample 3**

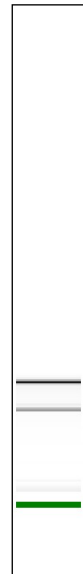
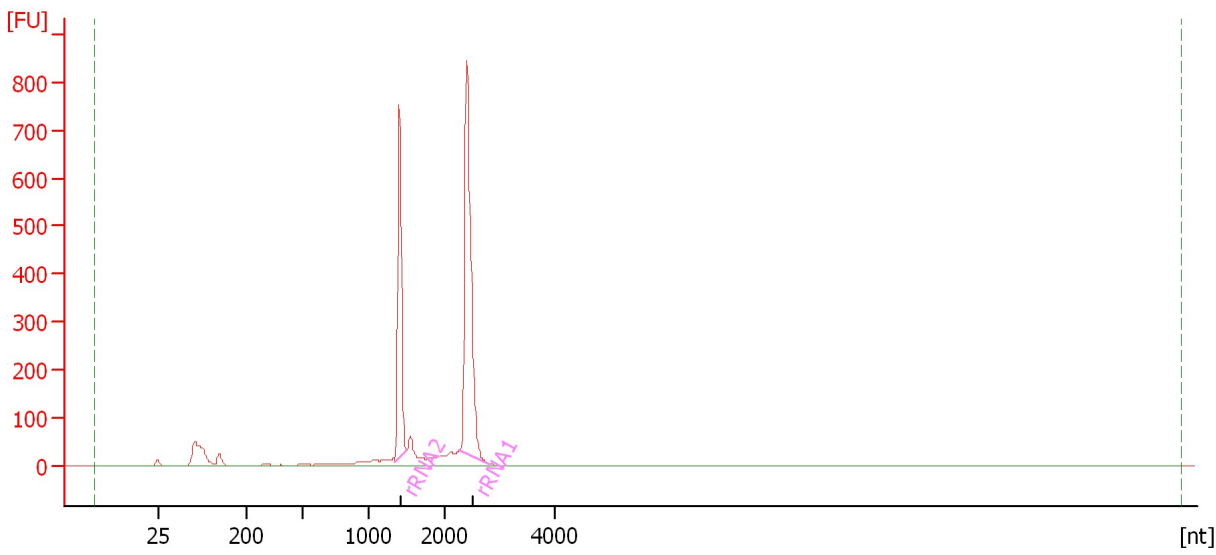
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,338	1,496	1,027.1	24.6
rRNA1	2,248	2,790	1,656.6	39.7

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Electropherogram Summary Continued ...**

Sample 4



**Overall Results for sample 4 : Sample 4**

RNA Area: 2,314.0                      rRNA Contamination: 65.7 %  
RNA Concentration: 1,524 ng/μl

**Fragment table for sample 4 : Sample 4**

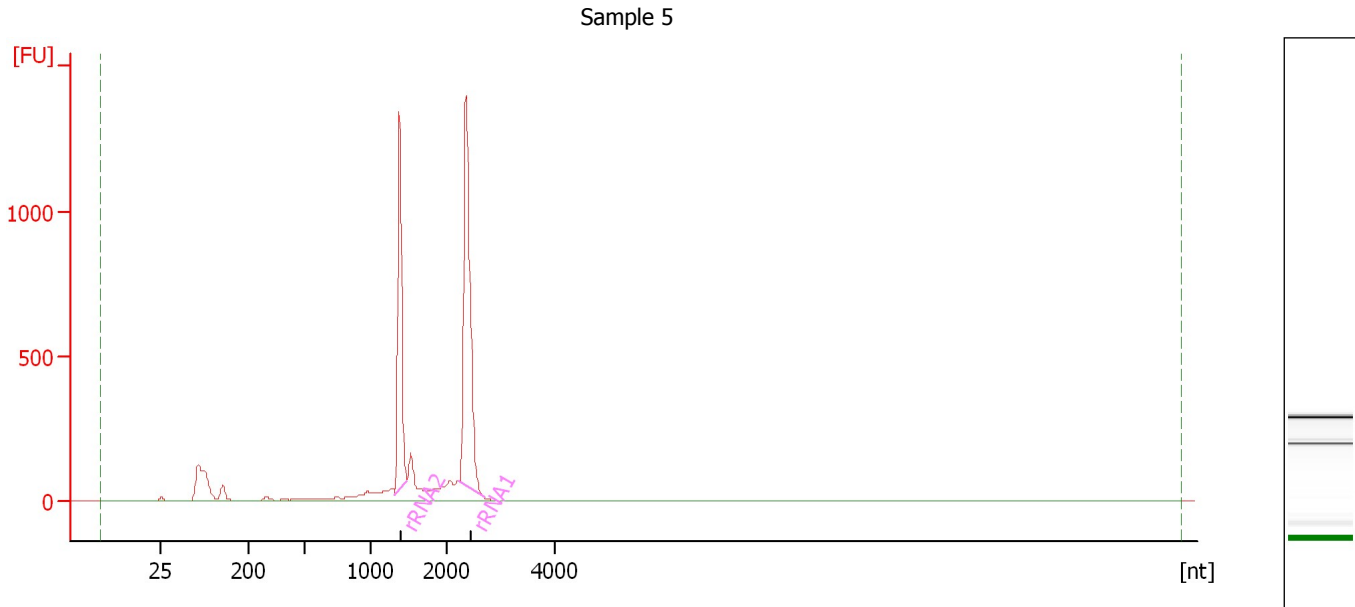
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,341	1,498	574.4	24.8
rRNA1	2,248	2,789	945.3	40.9



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 5**

RNA Area: 4,545.9                      rRNA Contamination: 58.9 %  
RNA Concentration: 2,993 ng/μl

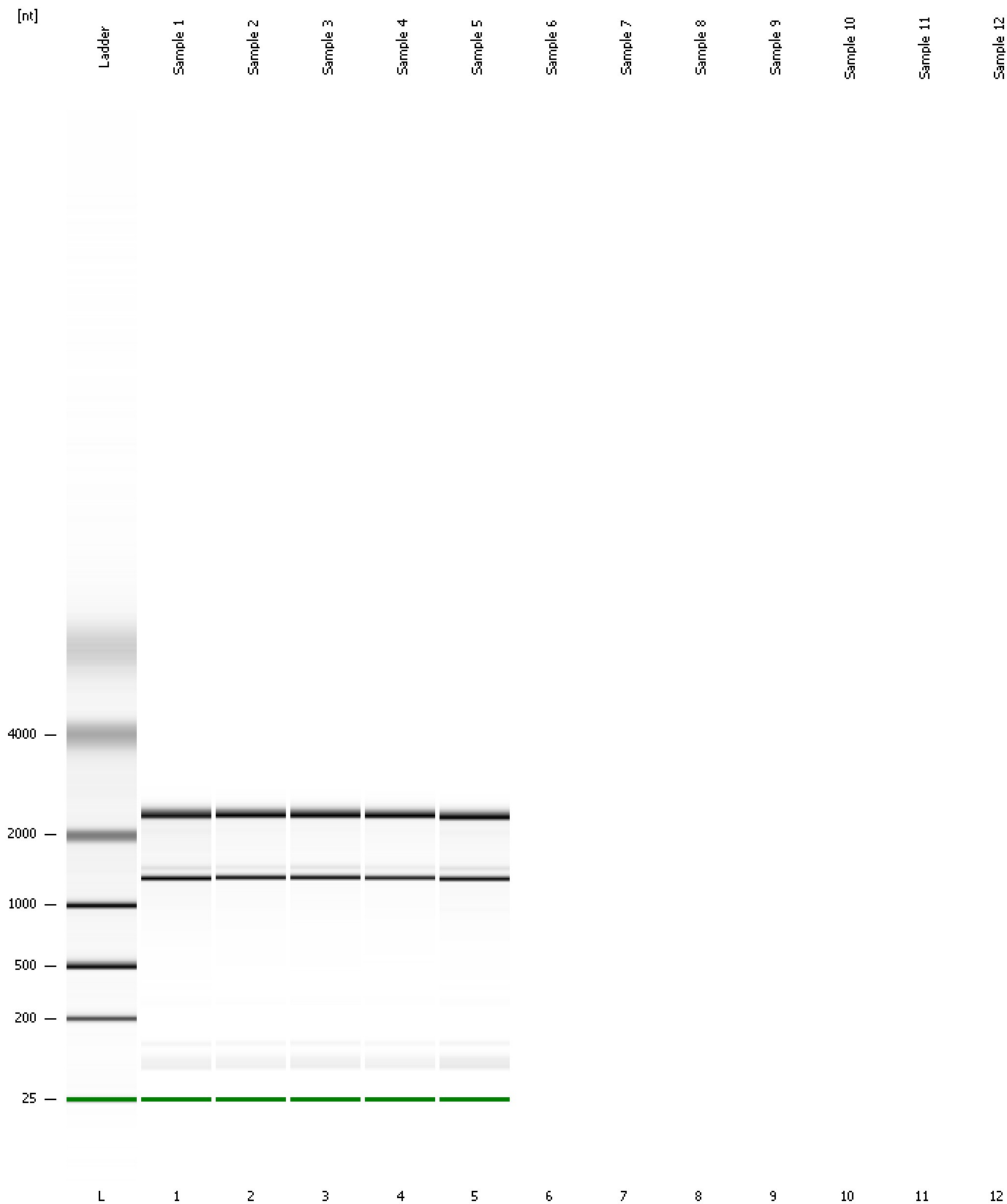
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,325	1,472	1,068.0	23.5
rRNA1	2,218	2,703	1,607.5	35.4

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Gel Image**

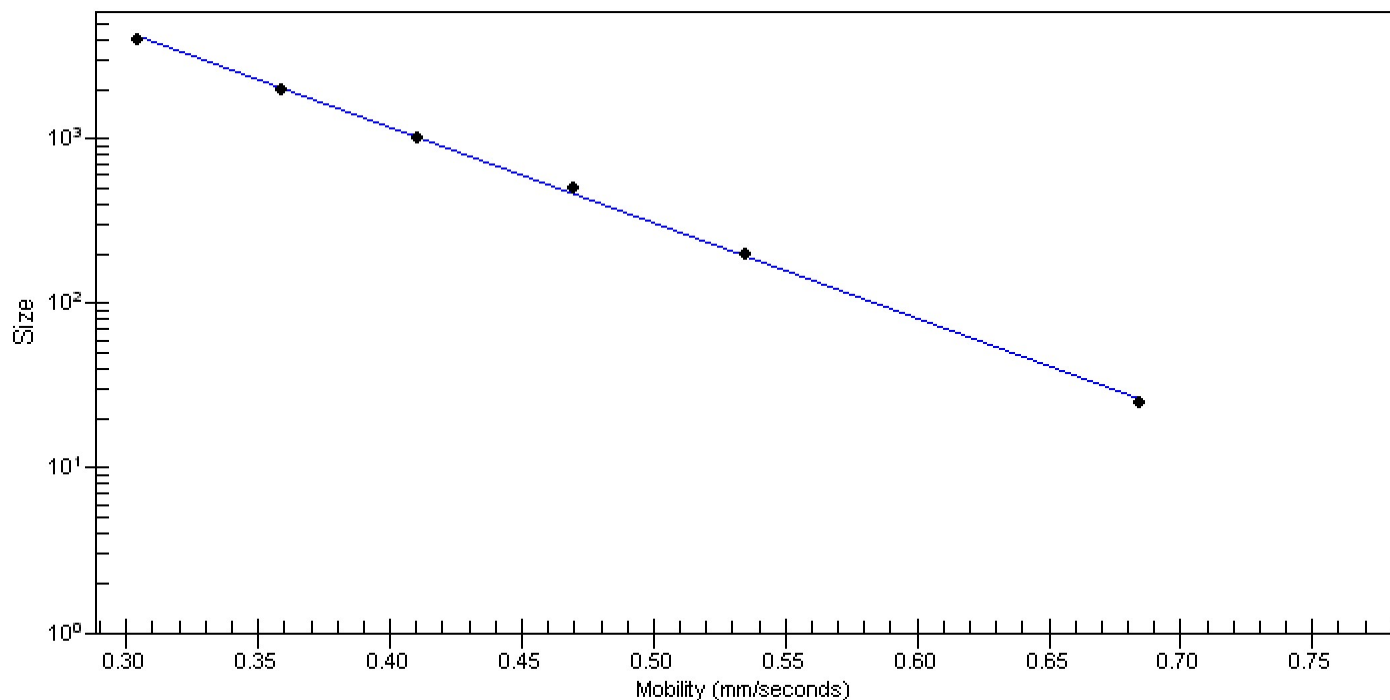


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Curves**

**Standard Curve**



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
Modified: 7/7/2016 5:01:38 PM

**Invalid Samples**

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

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: mRNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-07\2016-07-07\_002.xad

Created: 7/7/2016 4:45:56 PM  
 Modified: 7/7/2016 5:01:38 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		7/7/2016 5:01:38 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\2016-07-07\2016-07-07_002.xad)		Instrument	Run		7/7/2016 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/7/2016 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/7/2016 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/7/2016 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/7/2016 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/7/2016 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/7/2016 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1