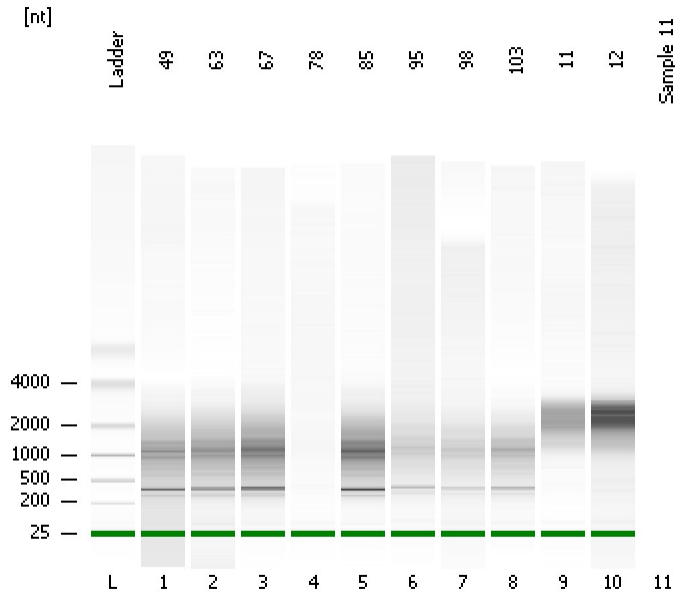


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

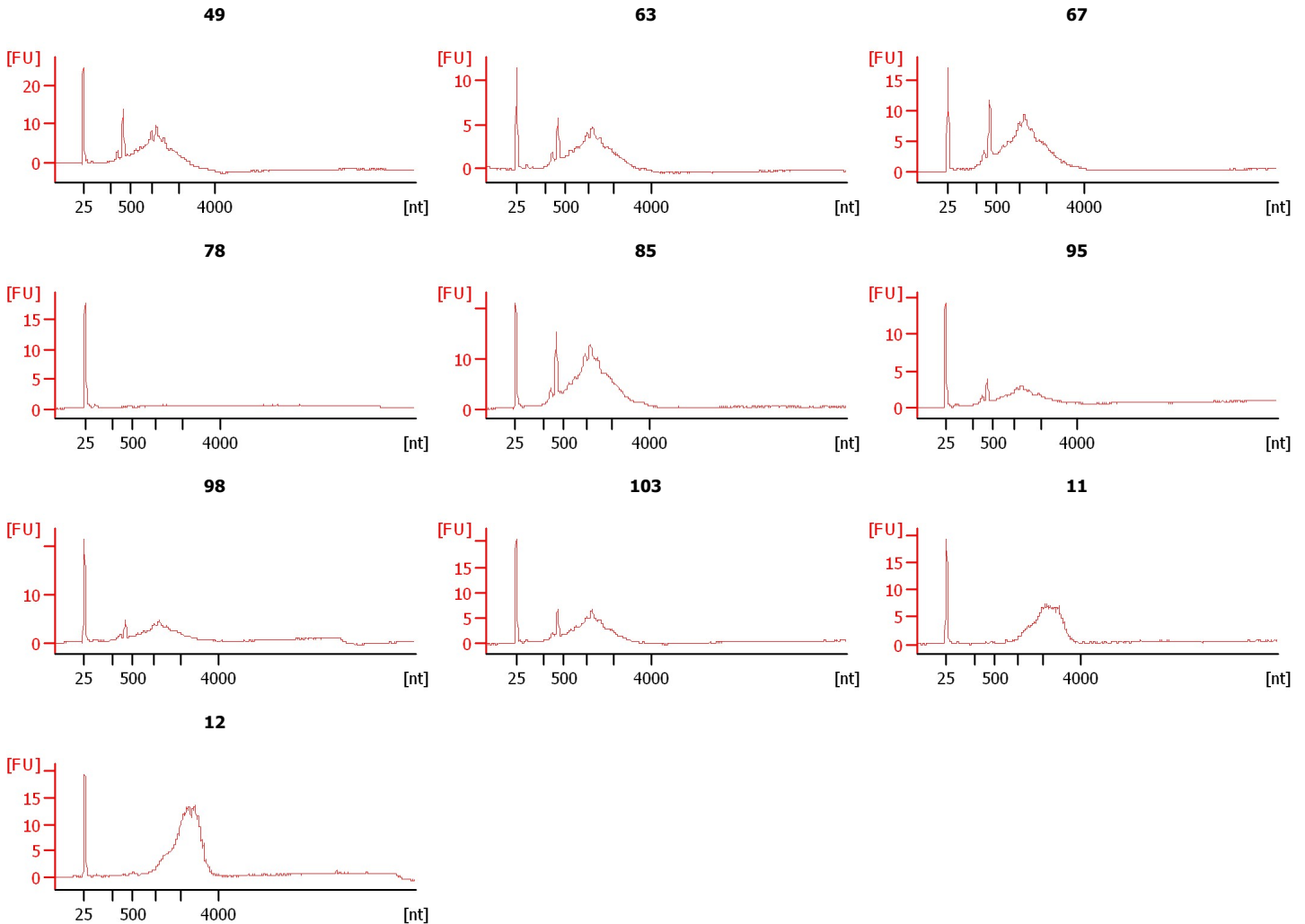
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
49		✓		
63		✓		
67		✓		
78		✓		
85		✓		
95		✓		
98		✓		
103		✓		
11		✓		
12		✓		
Sample 11				
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 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/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/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

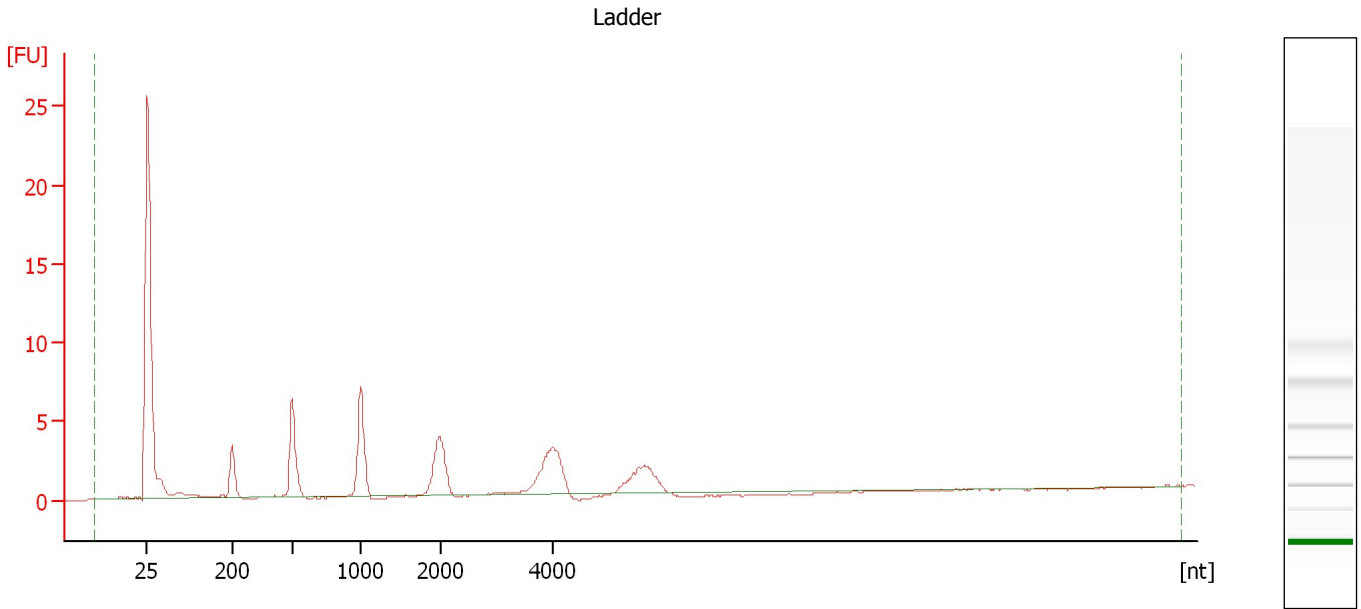
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary



Overall Results for Ladder

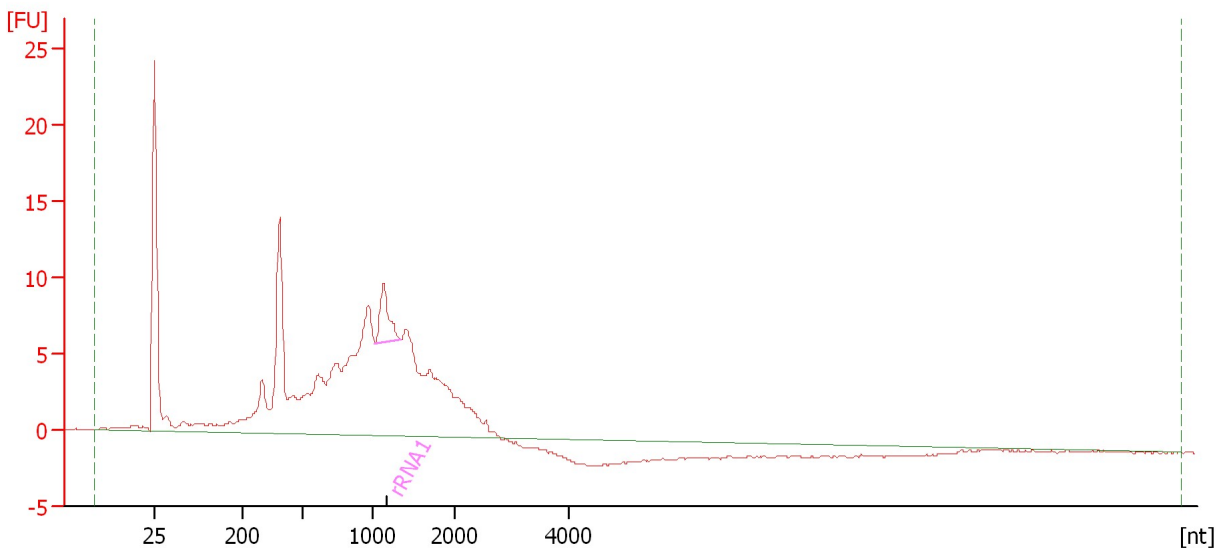
RNA Area: 51.7 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...

49



Overall Results for sample 1 : 49

RNA Area: 210.0 rRNA Contamination: 3.3 %
RNA Concentration: 4,058 pg/μl

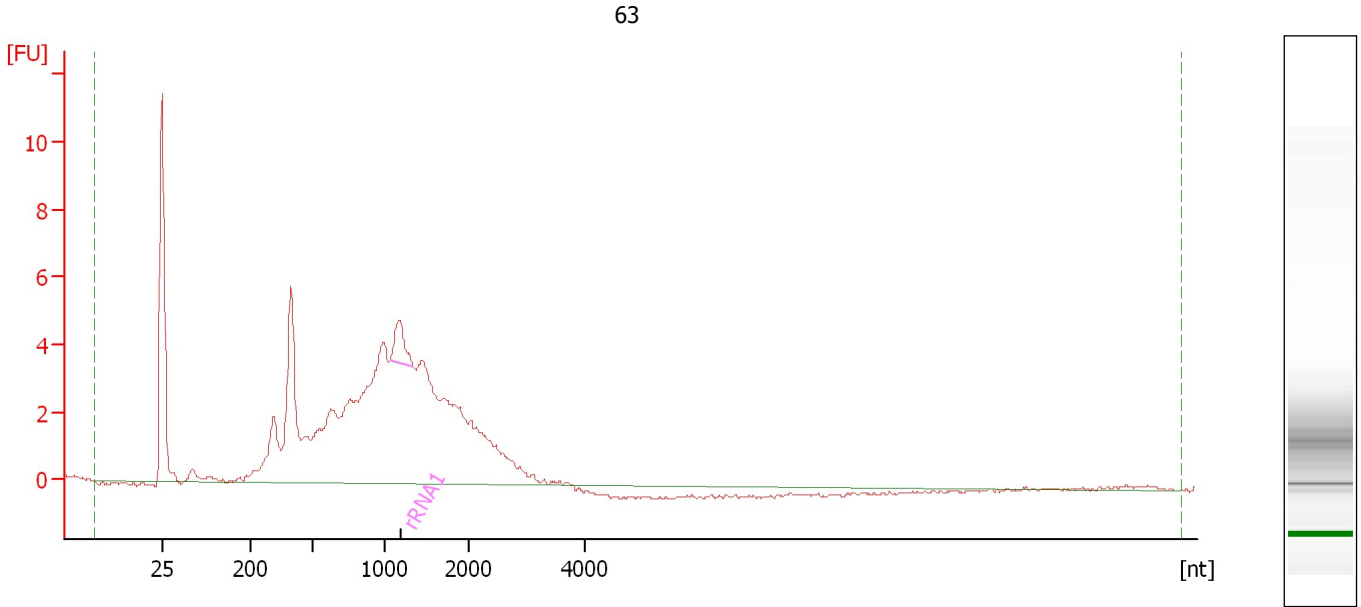
Fragment table for sample 1 : 49

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,026	1,332	6.9	3.3

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 63

RNA Area: 115.0 rRNA Contamination: 2.3 %
RNA Concentration: 2,222 pg/μl

Fragment table for sample 2 : 63

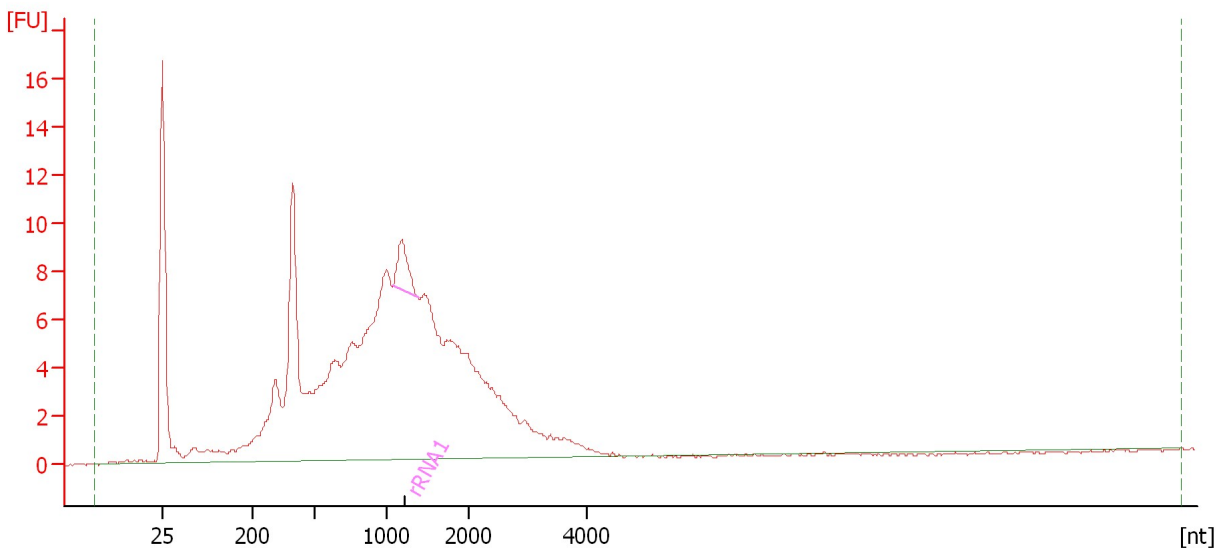
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,052	1,342	2.7	2.3

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...

67



Overall Results for sample 3 : 67

RNA Area: 241.4 rRNA Contamination: 1.9 %
RNA Concentration: 4,666 pg/μl

Fragment table for sample 3 : 67

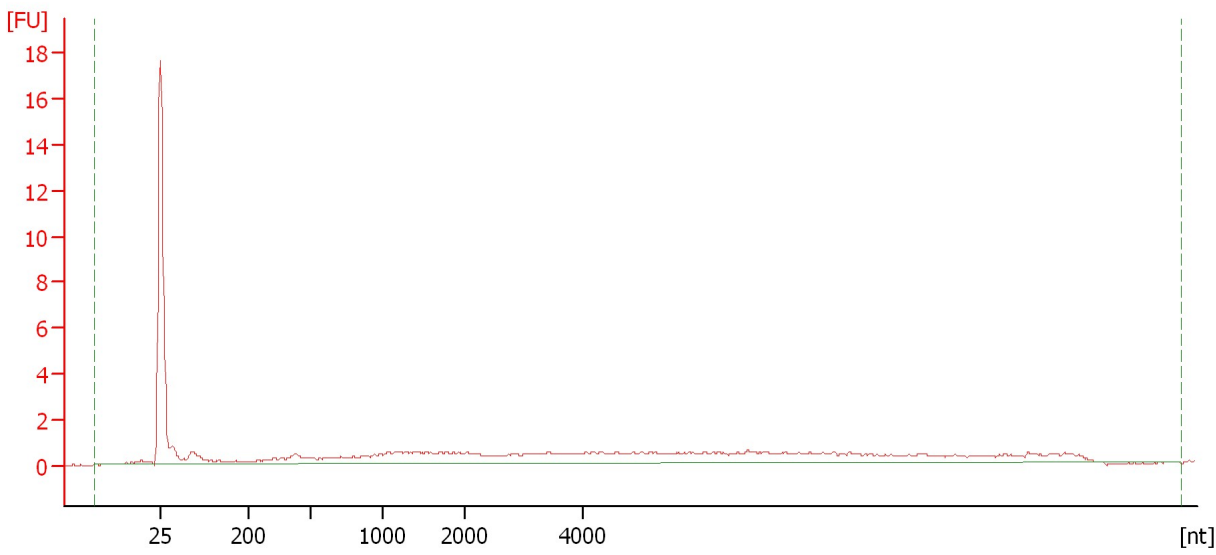
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,074	1,382	4.6	1.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...

78



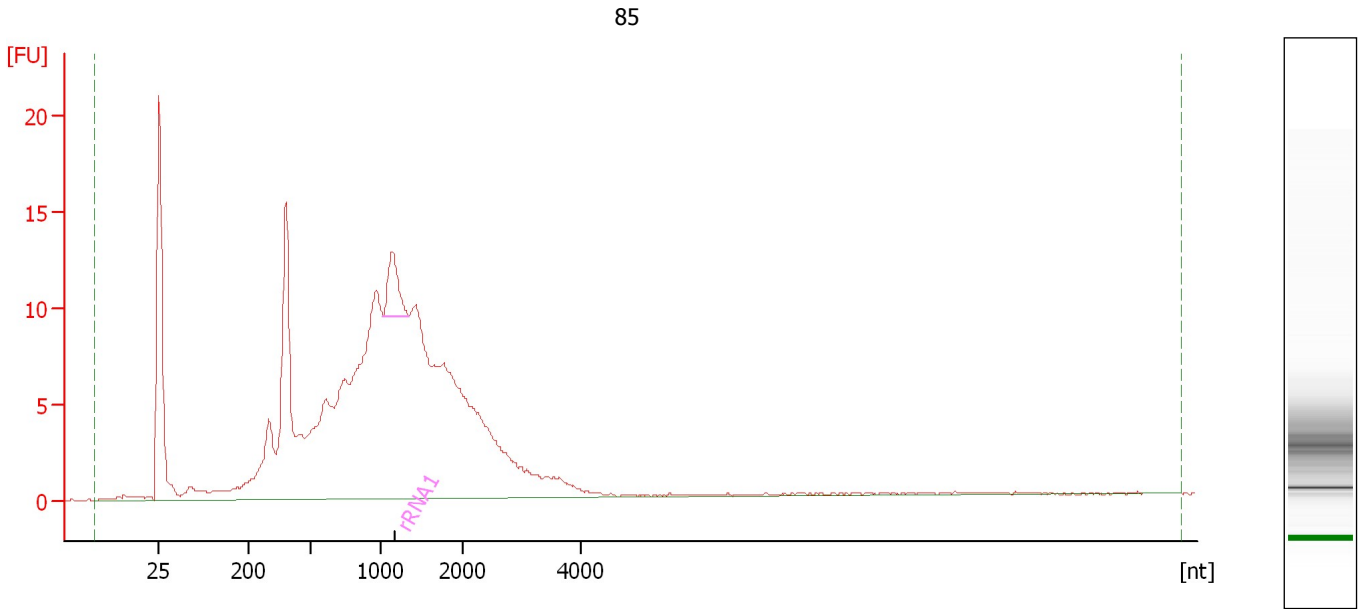
Overall Results for sample 4 : 78

RNA Area:	46.8	rRNA Contamination:	0.0 %
RNA Concentration:	904 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 85

RNA Area: 322.9 rRNA Contamination: 2.2 %
RNA Concentration: 6,242 pg/μl

Fragment table for sample 5 : 85

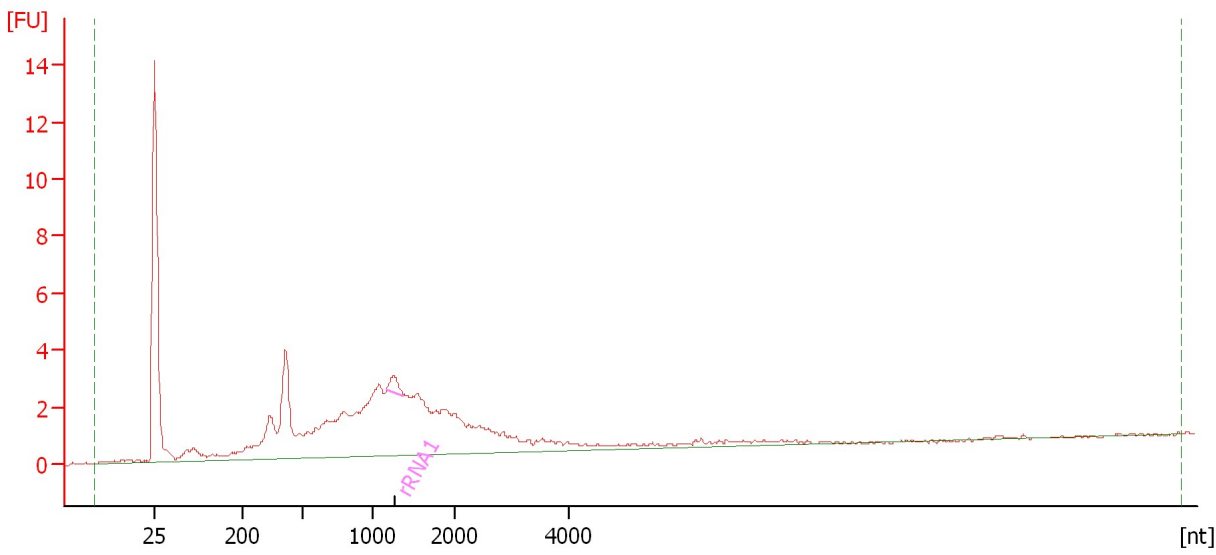
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,024	1,335	7.1	2.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...

95



Overall Results for sample 6 : 95

RNA Area: 85.1 rRNA Contamination: 1.1 %
RNA Concentration: 1,645 pg/μl

Fragment table for sample 6 : 95

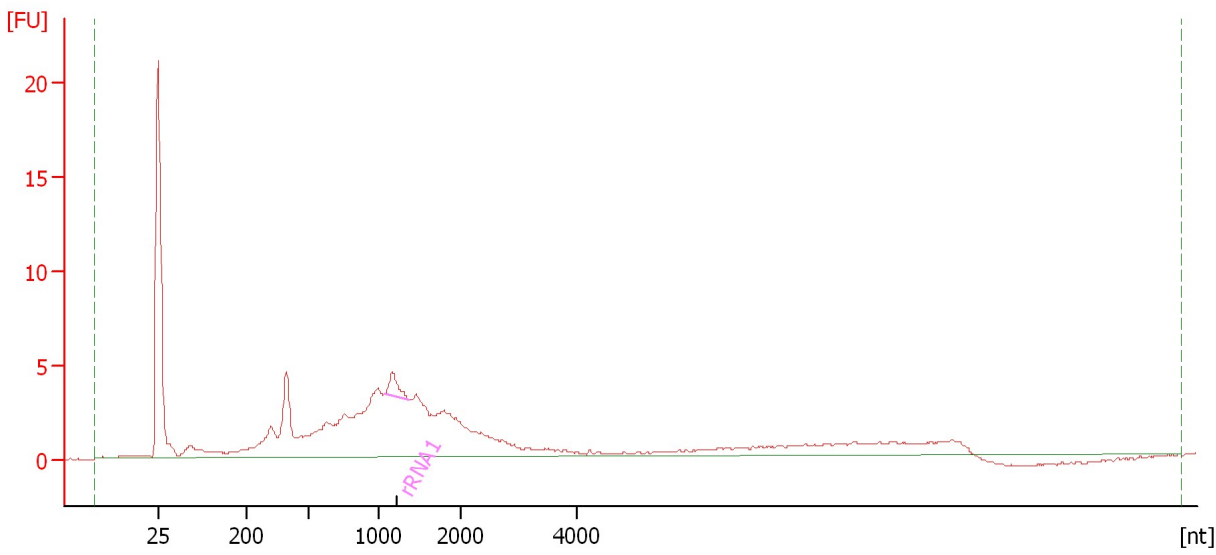
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,165	1,372	0.9	1.1

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...

98



Overall Results for sample 7 : 98

RNA Area: 130.3 rRNA Contamination: 1.9 %
RNA Concentration: 2,519 pg/μl

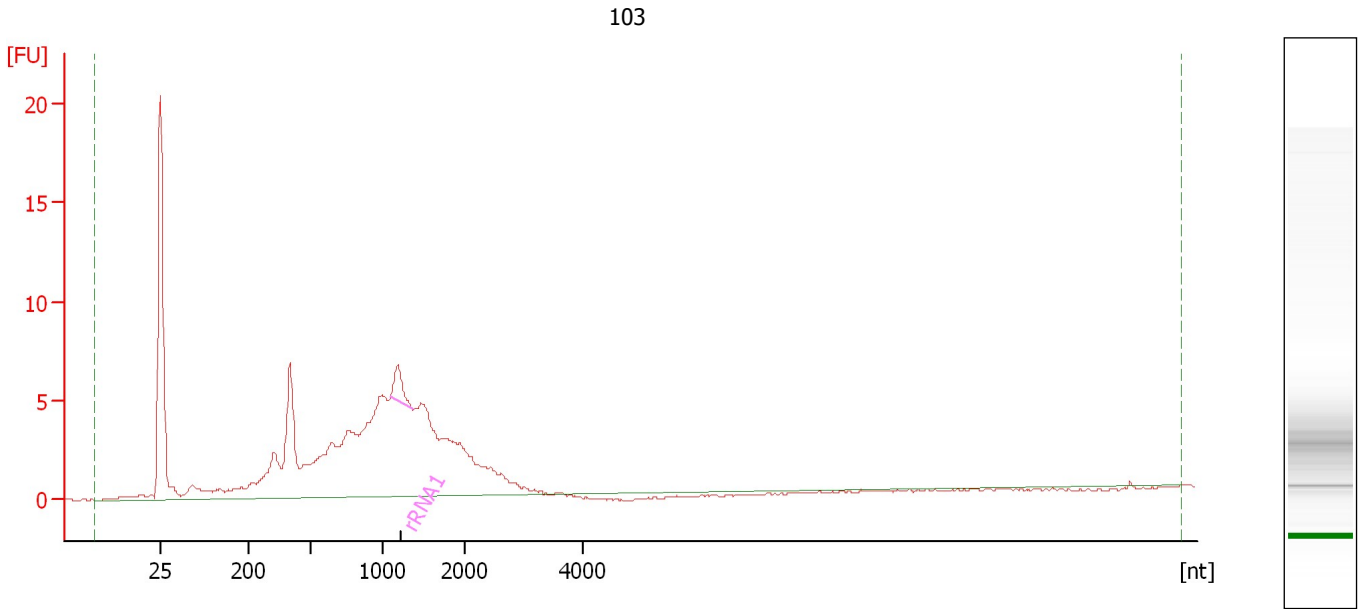
Fragment table for sample 7 : 98

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,067	1,361	2.4	1.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 103

RNA Area: 152.6 rRNA Contamination: 2.0 %
RNA Concentration: 2,950 pg/μl

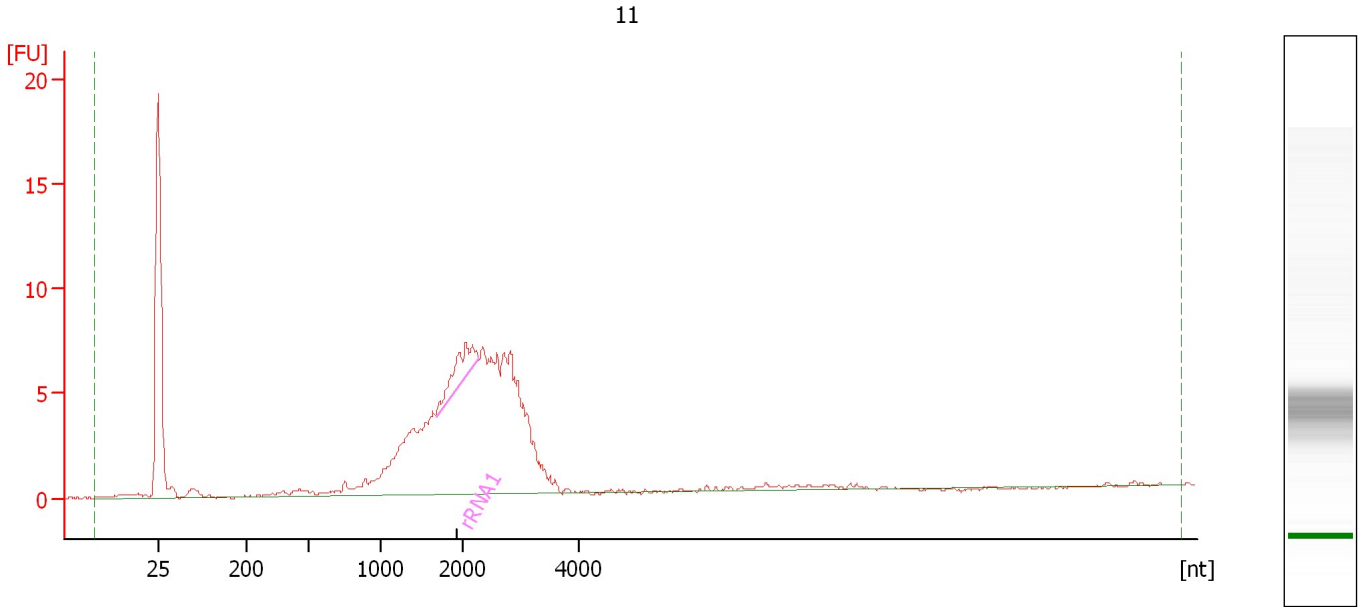
Fragment table for sample 8 : 103

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,095	1,357	3.1	2.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 11

RNA Area: 128.7 rRNA Contamination: 4.4 %
RNA Concentration: 2,487 pg/μl

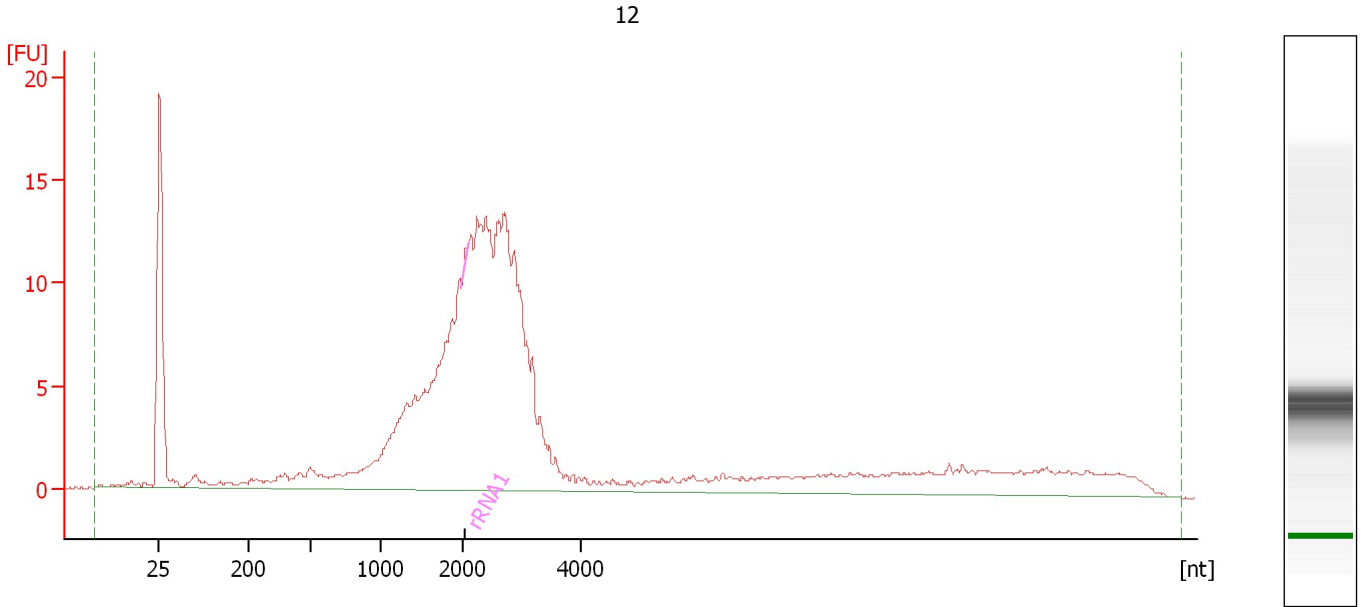
Fragment table for sample 9 : 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,684	2,282	5.6	4.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 12

RNA Area: 283.5 rRNA Contamination: 0.3 %
RNA Concentration: 5,479 pg/μl

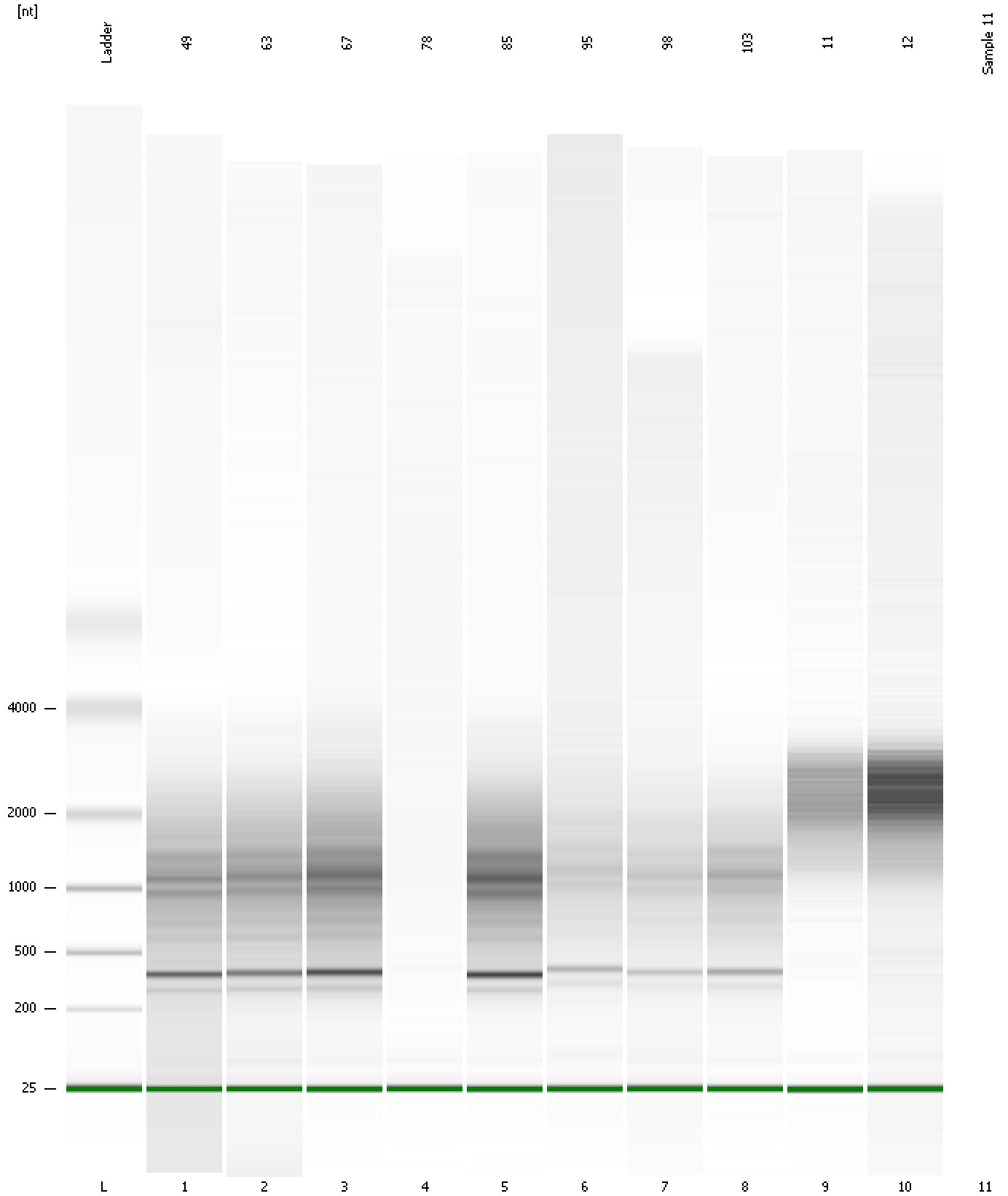
Fragment table for sample 10 : 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,977	2,105	0.4	0.1
rRNA2	1,977	2,105	0.4	0.1

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Gel Image

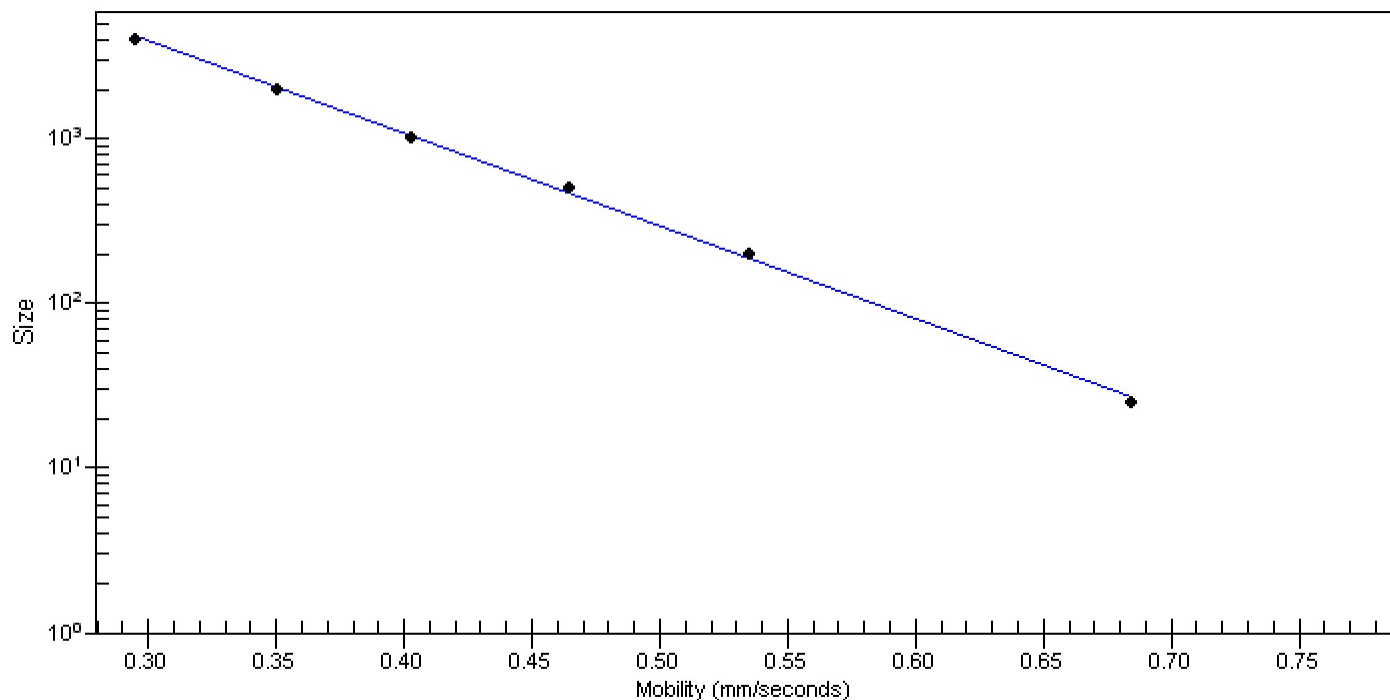


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Curves

Standard Curve



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
Modified: 4/27/2016 7:11:04 AM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-27\2016-04-27_001.xad

Created: 4/27/2016 6:46:51 AM
 Modified: 4/27/2016 7:11:04 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		4/27/2016 7:11:03 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\2016-04-27\2016-04-27_001.xad)		Instrument	Run		4/27/2016 6:46:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/27/2016 6:46:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/27/2016 6:46:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/27/2016 6:46:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/27/2016 6:46:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/27/2016 6:46:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/27/2016 6:46:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1