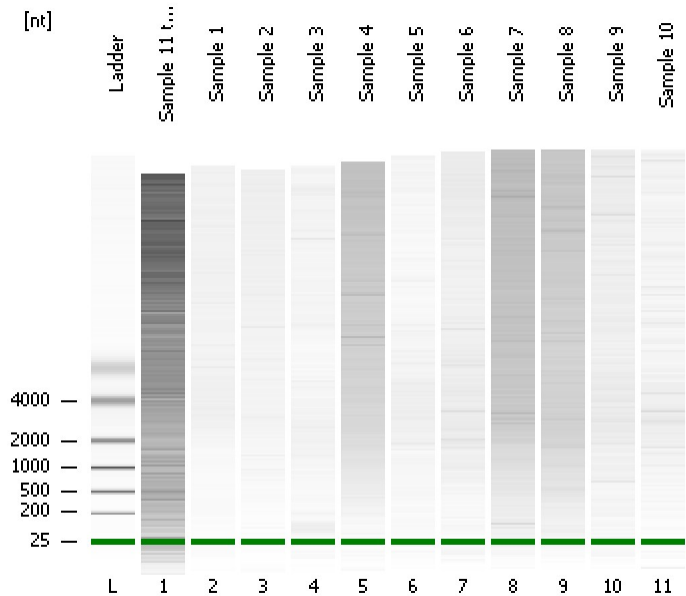


Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

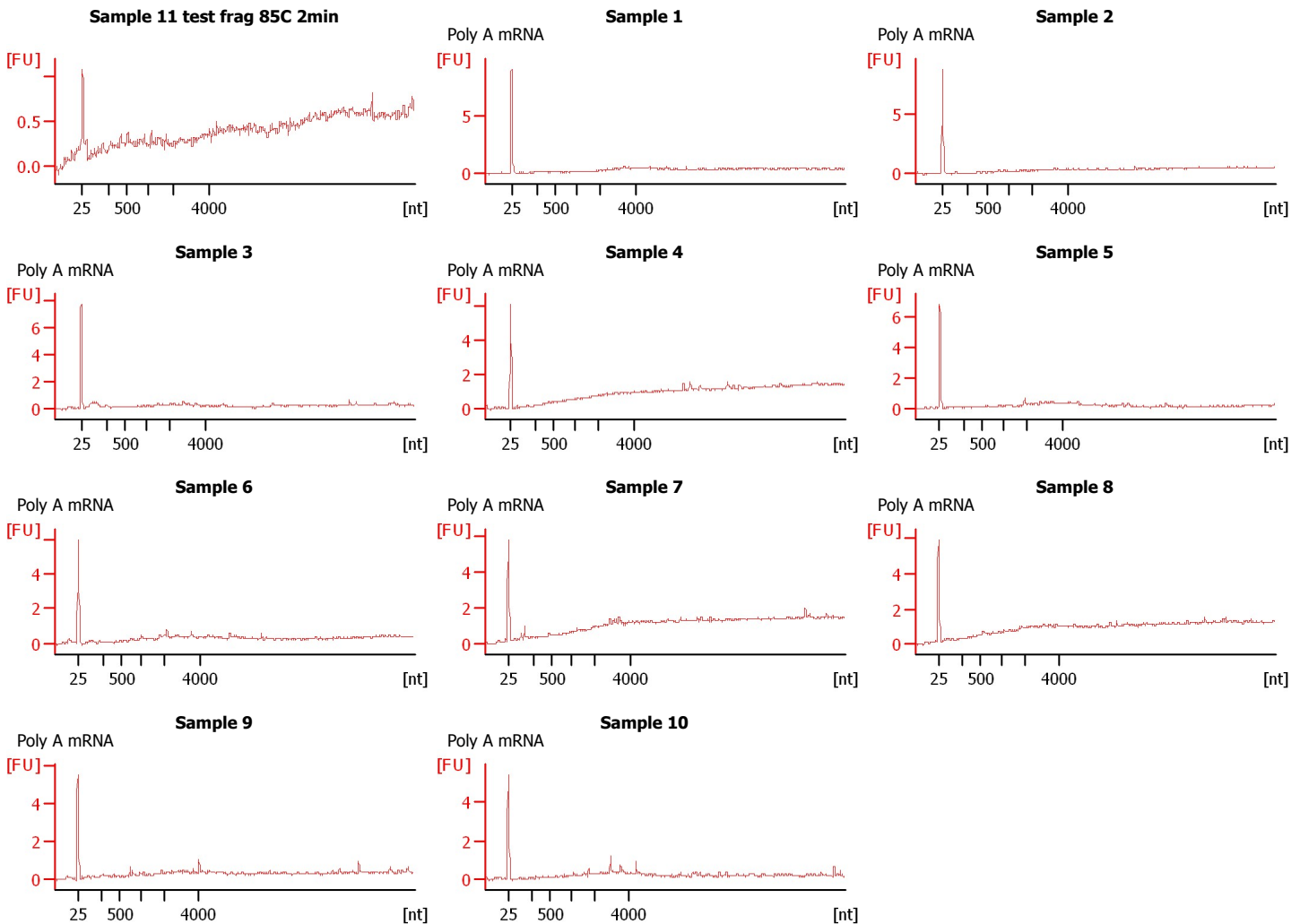
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 11 test frag 85C 2min		✓		
Sample 1	Poly A mRNA	✓		
Sample 2	Poly A mRNA	✓		
Sample 3	Poly A mRNA	✓		
Sample 4	Poly A mRNA	✓		
Sample 5	Poly A mRNA	✓		
Sample 6	Poly A mRNA	✓		
Sample 7	Poly A mRNA	✓		
Sample 8	Poly A mRNA	✓		
Sample 9	Poly A mRNA	✓		
Sample 10	Poly A mRNA	✓		
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 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

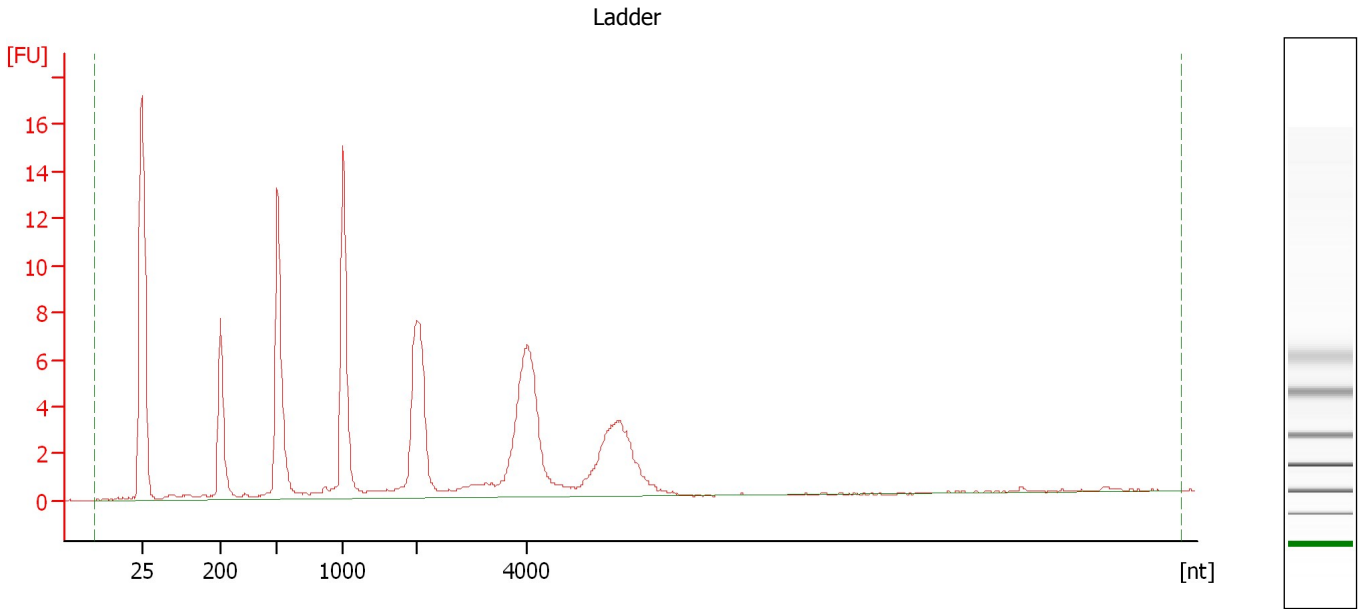
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary



Overall Results for Ladder

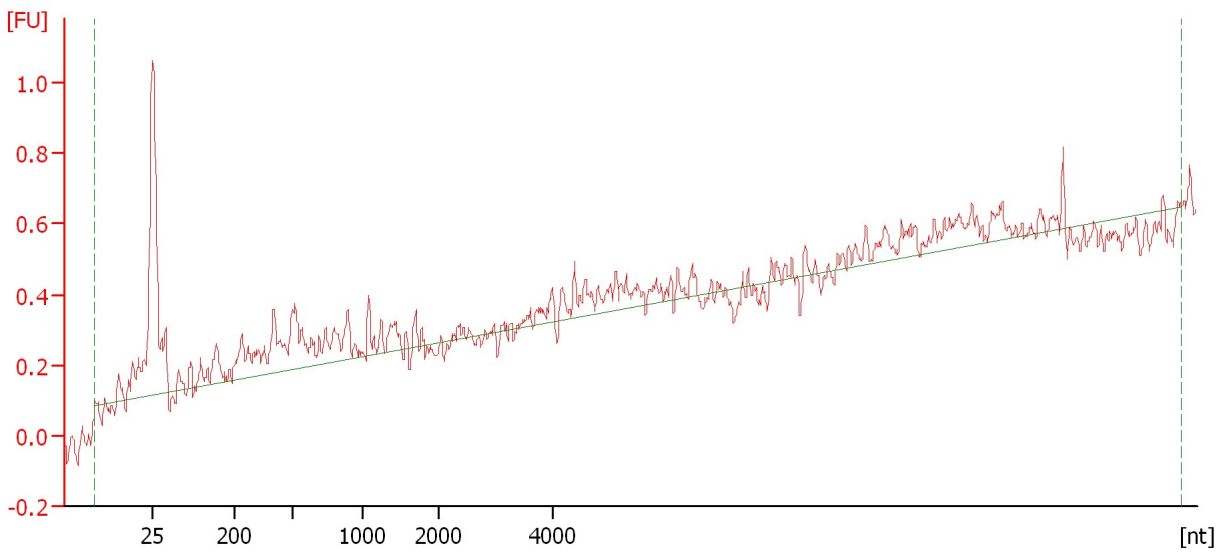
RNA Area: 133.4 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 11 test frag 85C 2min



Overall Results for sample 1 : Sample 11 test frag 85C 2min

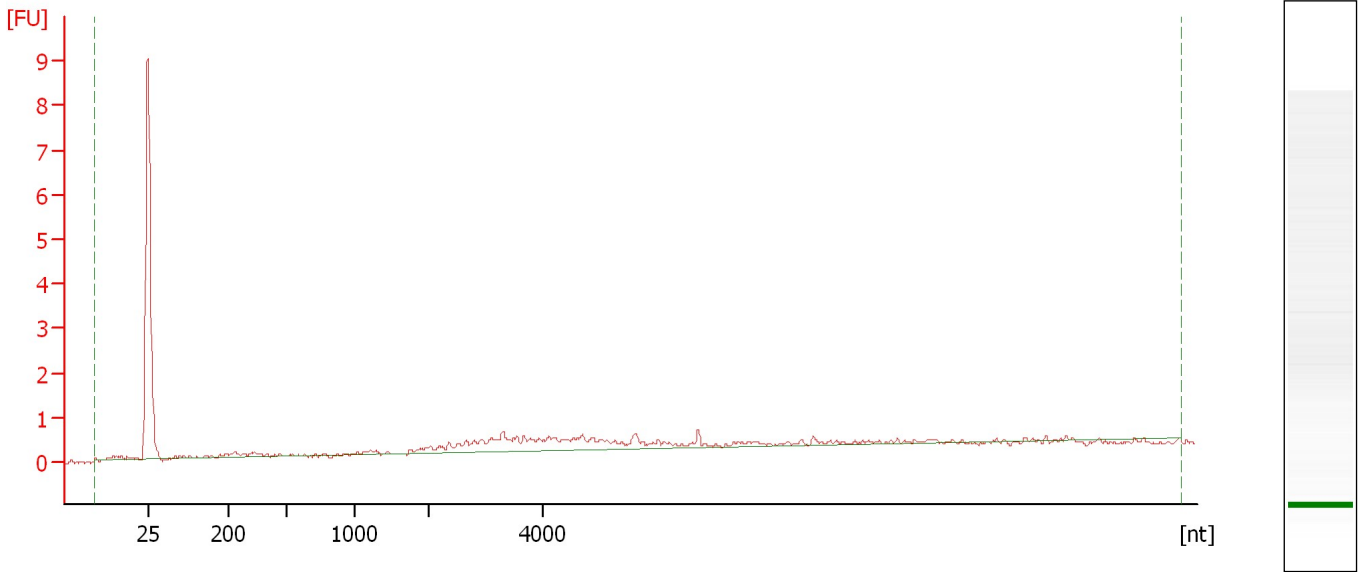
RNA Area:	6.2	rRNA Contamination:	0.0 %
RNA Concentration:	46 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 1 [Poly A mRNA]



Overall Results for sample 2 : Sample 1

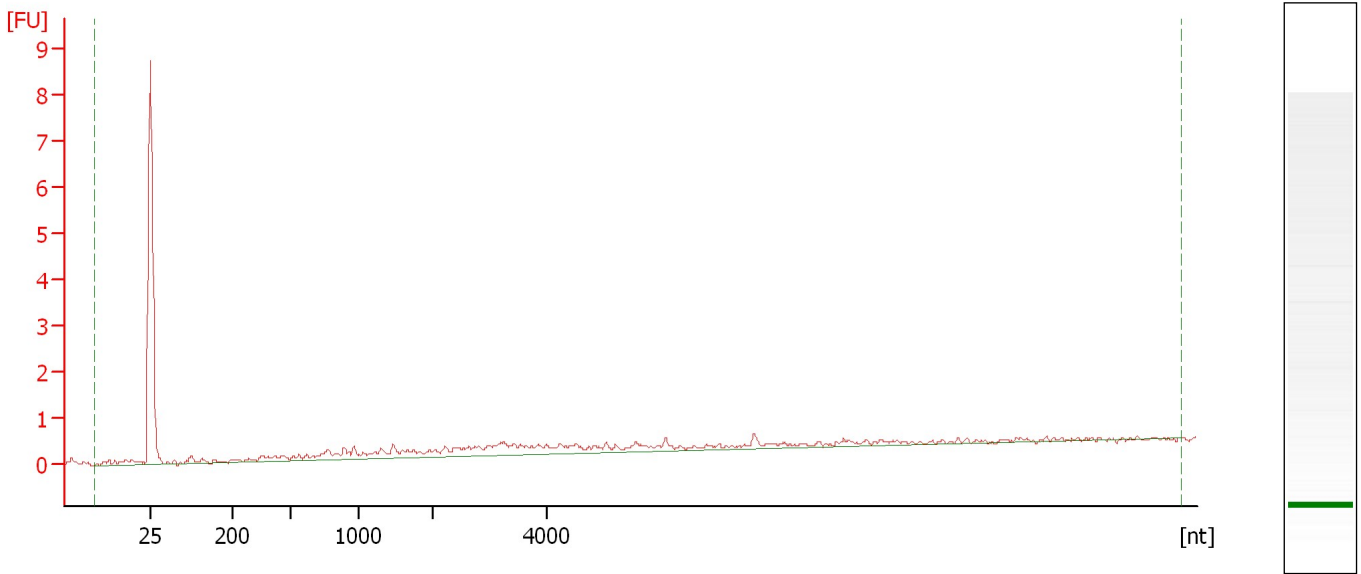
RNA Area:	11.2	rRNA Contamination:	0.0 %
RNA Concentration:	84 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 2 [Poly A mRNA]



Overall Results for sample 3 : Sample 2

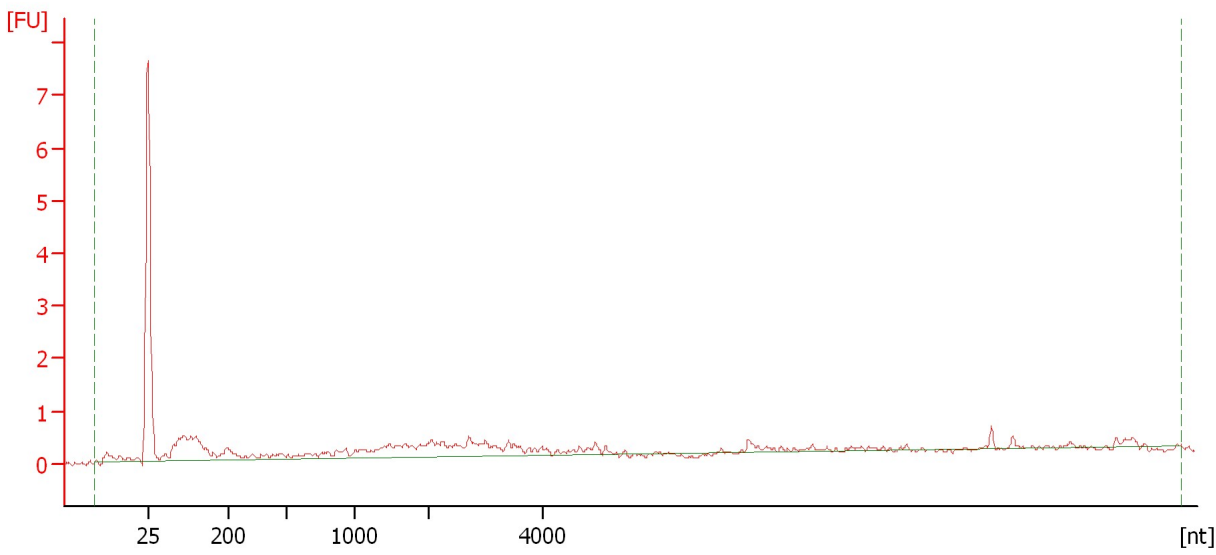
RNA Area: 13.4 rRNA Contamination: 0.0 %
RNA Concentration: 100 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 3 [Poly A mRNA]



Overall Results for sample 4 : Sample 3

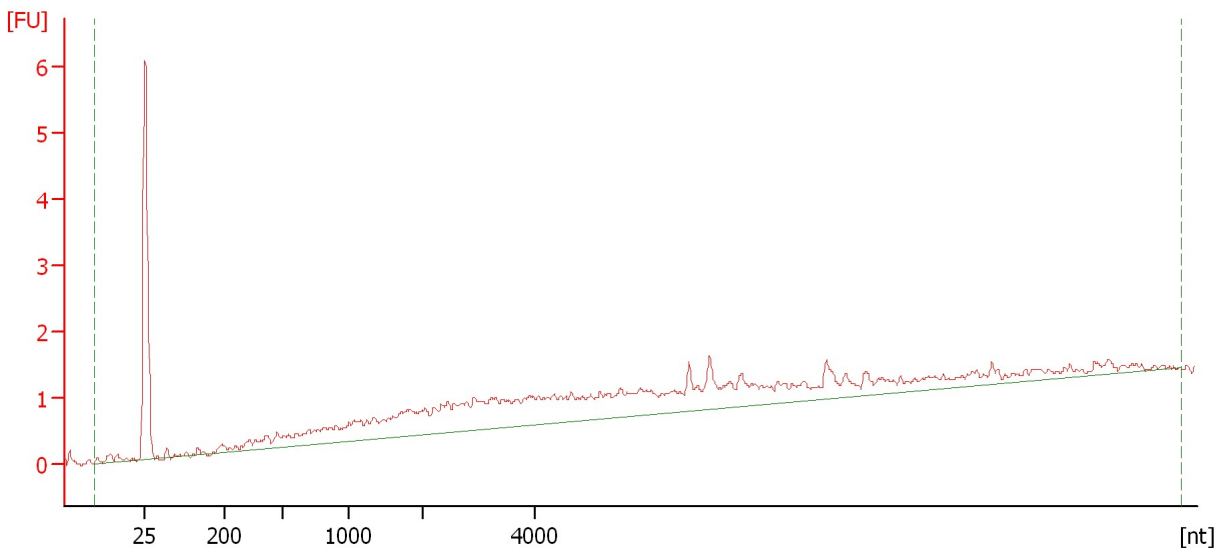
RNA Area:	16.7	rRNA Contamination:	0.0 %
RNA Concentration:	125 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 4 [Poly A mRNA]



Overall Results for sample 5 : Sample 4

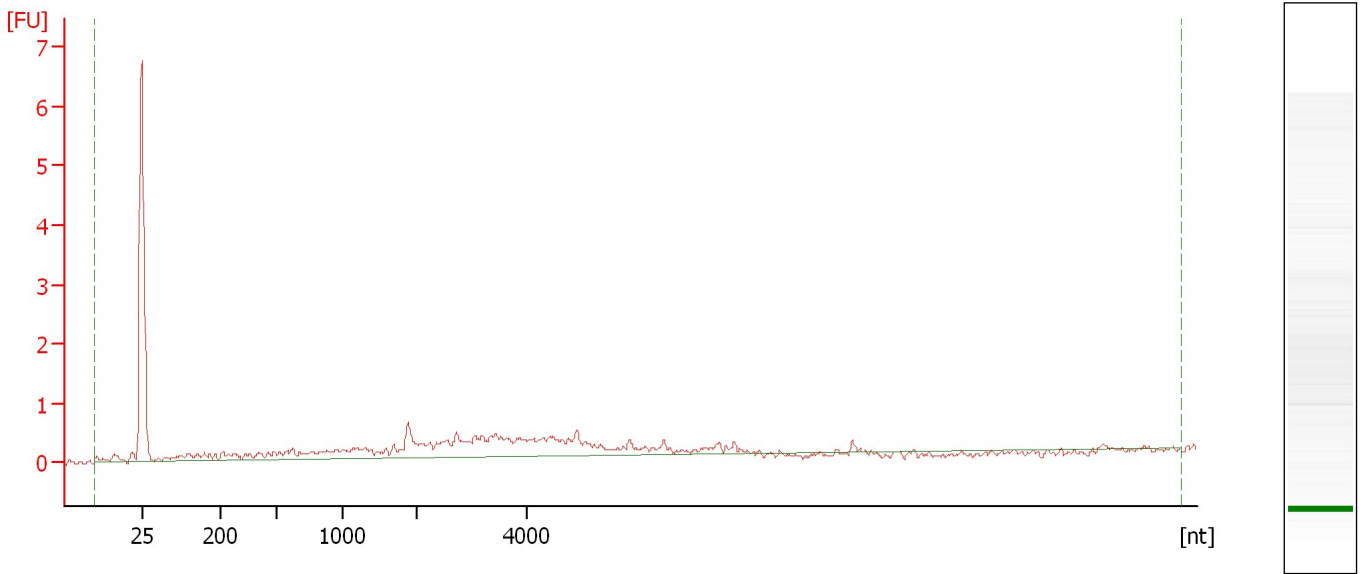
RNA Area: 31.6 rRNA Contamination: 0.0 %
RNA Concentration: 237 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 5 [Poly A mRNA]



Overall Results for sample 6 : Sample 5

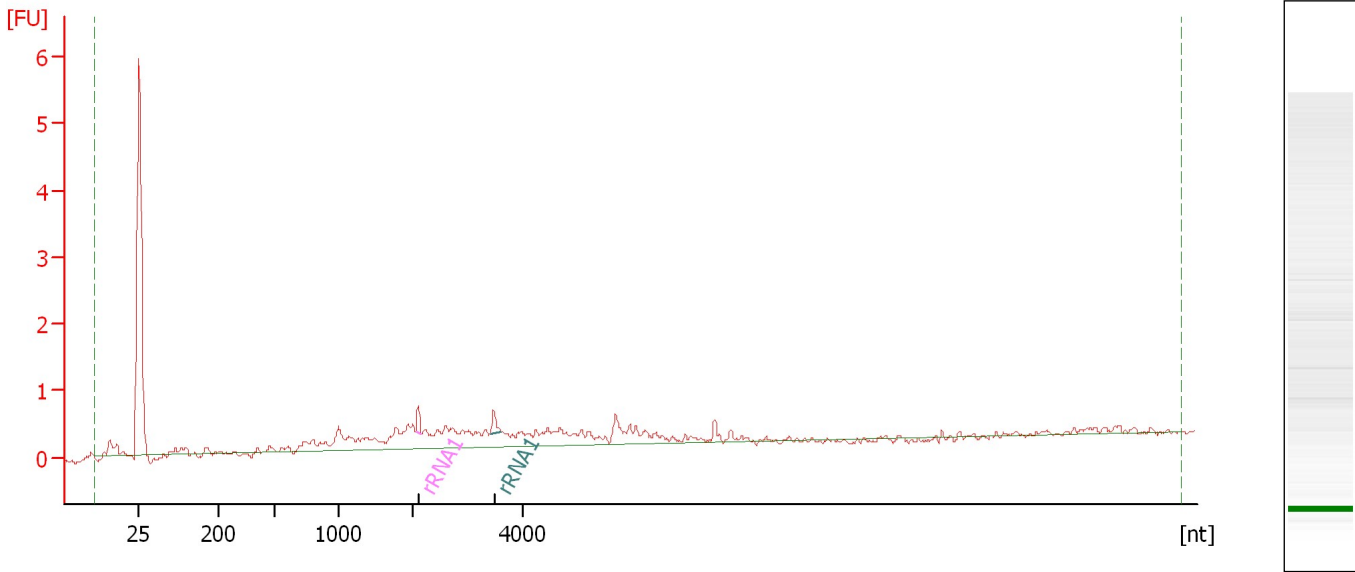
RNA Area:	14.9	rRNA Contamination:	0.0 %
RNA Concentration:	112 pg/ μ l		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 6 [Poly A mRNA]



Overall Results for sample 7 : Sample 6

RNA Area: 15.6 rRNA Contamination: 3.0 %
RNA Concentration: 117 pg/μl

Fragment table for sample 7 : Sample 6

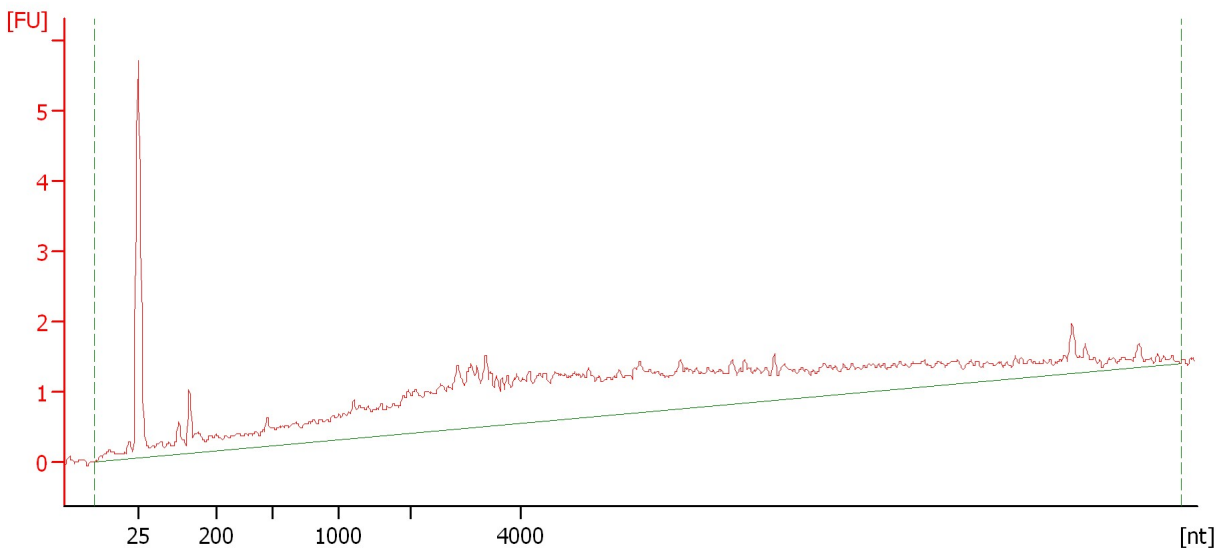
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	2,068	2,170	0.2	1.4
rRNA1	3,417	3,606	0.2	1.6

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 7 [Poly A mRNA]



Overall Results for sample 8 : Sample 7

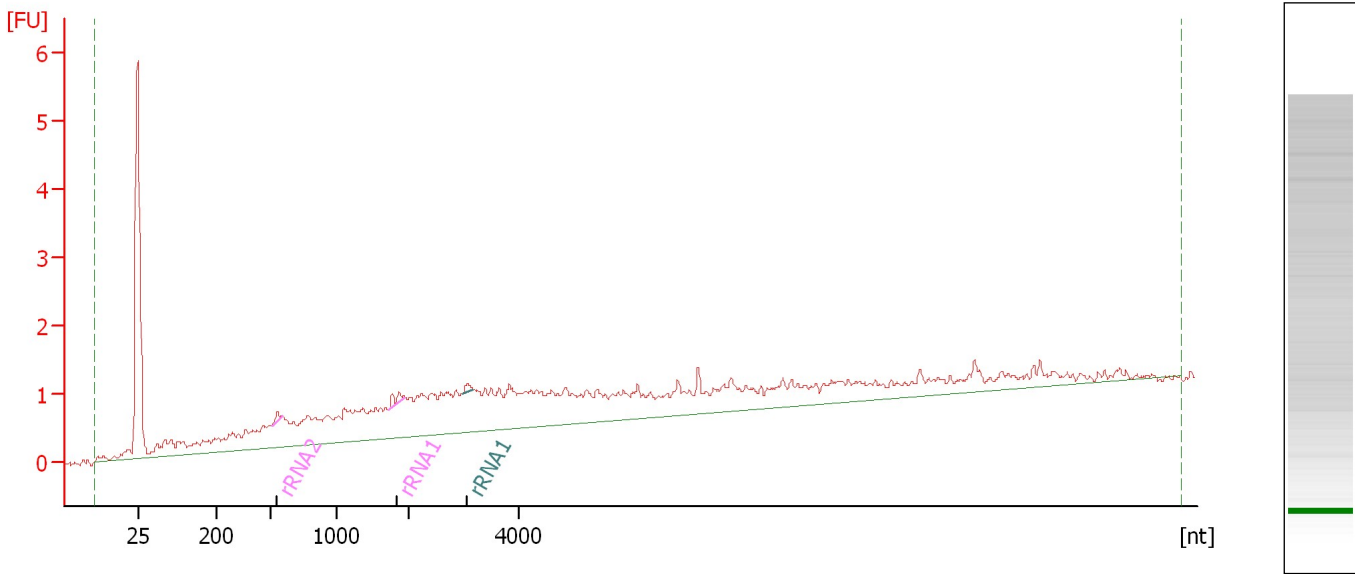
RNA Area:	57.2	rRNA Contamination:	0.0 %
RNA Concentration:	429 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 8 [Poly A mRNA]



Overall Results for sample 9 : Sample 8

RNA Area: 48.9 rRNA Contamination: 1.0 %
RNA Concentration: 366 pg/μl

Fragment table for sample 9 : Sample 8

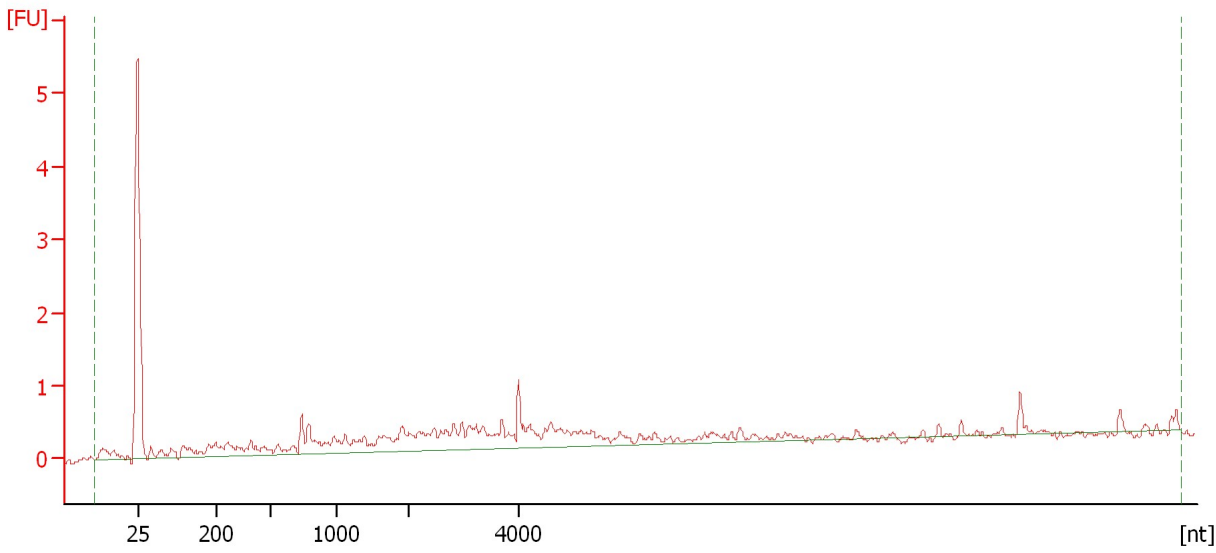
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	507	586	0.1	0.3
rRNA1	1,719	1,940	0.2	0.5
rRNA1	2,985	3,160	0.1	0.3

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 9 [Poly A mRNA]



Overall Results for sample 10 : Sample 9

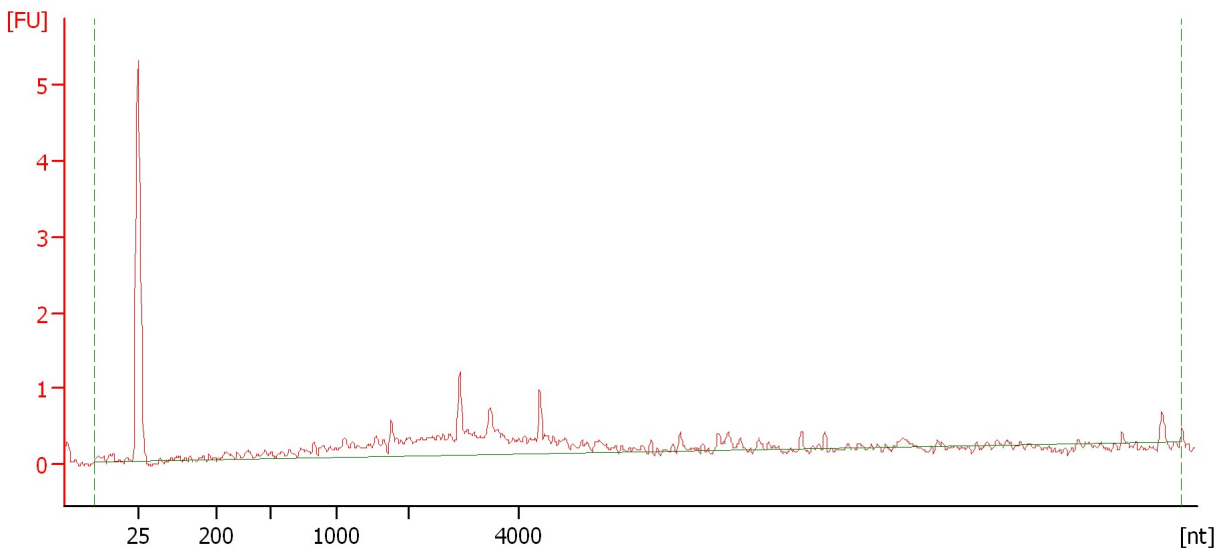
RNA Area: 17.7 rRNA Contamination: 0.0 %
RNA Concentration: 133 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Electropherogram Summary Continued ...

Sample 10 [Poly A mRNA]



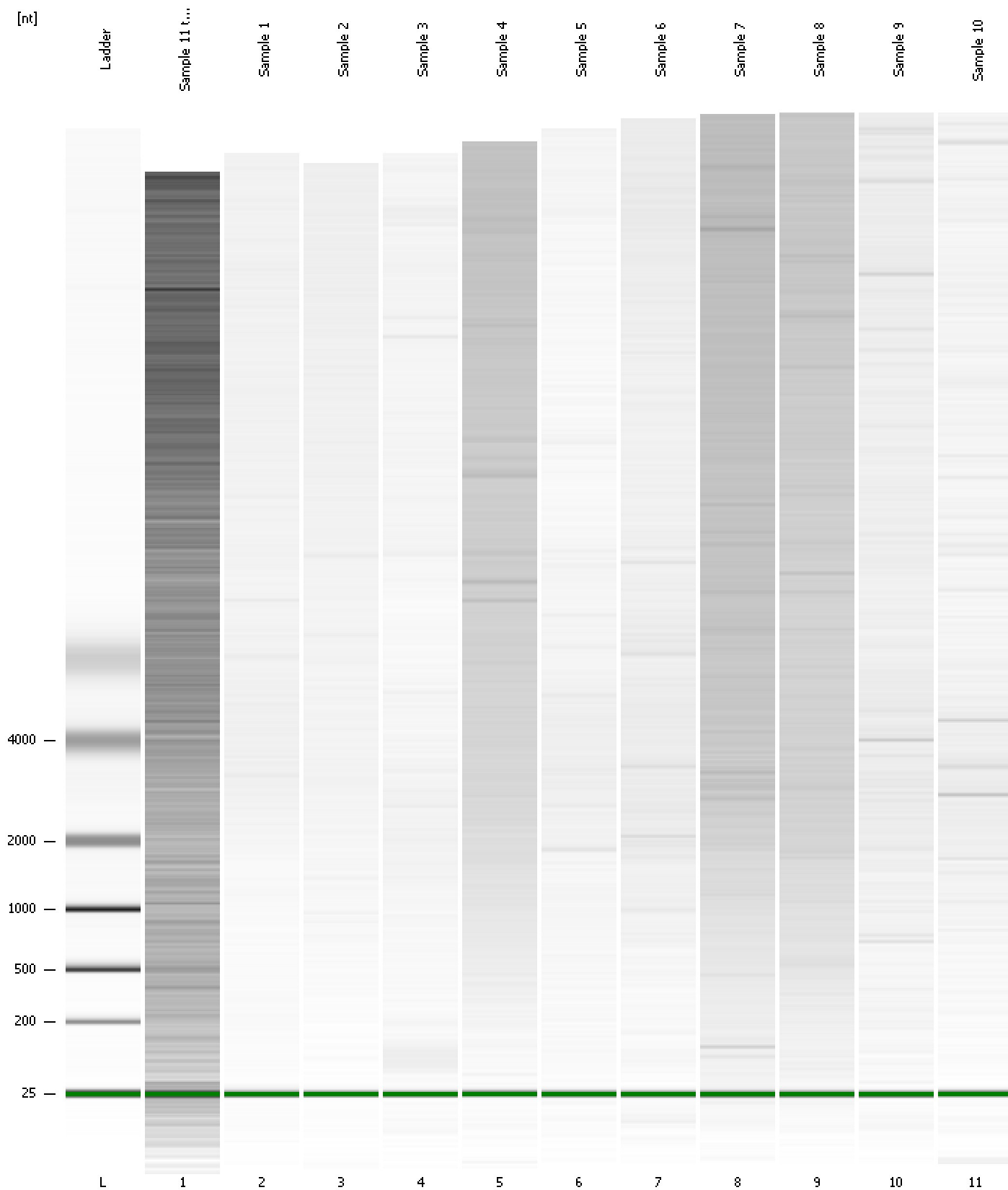
Overall Results for sample 11 : Sample 10

RNA Area: 14.8 rRNA Contamination: 0.0 %
RNA Concentration: 111 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
Modified: 11/30/2015 1:49:16 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad

Created: 11/30/2015 1:23:26 PM
 Modified: 11/30/2015 1:49:16 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		11/30/2015 1:49:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-30\2015-11-30_002.xad)		Instrument	Run		11/30/2015 1:23:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/30/2015 1:23:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/30/2015 1:23:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/30/2015 1:23:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/30/2015 1:23:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/30/2015 1:23:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/30/2015 1:23:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1