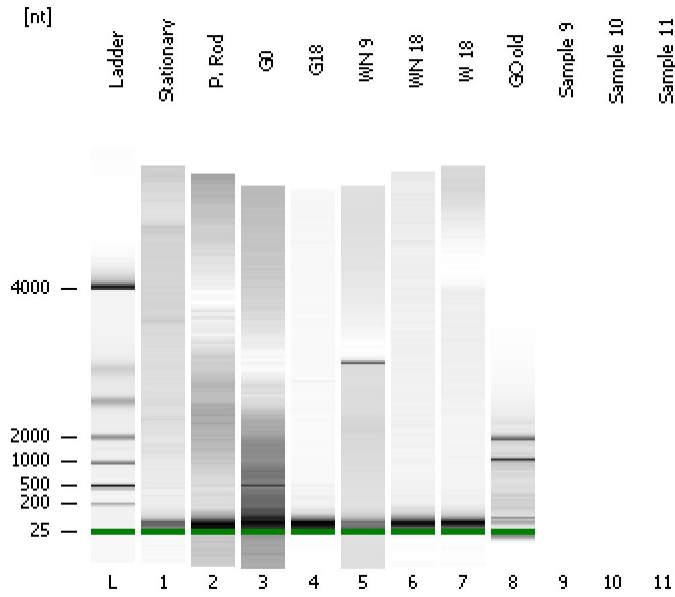


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 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

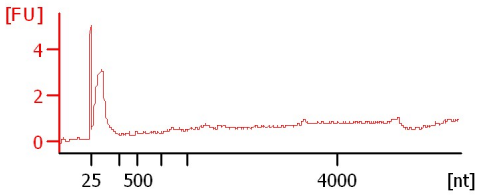
Assay Class: mRNA Pico
Version: 2.6
Assay Comments: mRNA Analysis pg sensitivity

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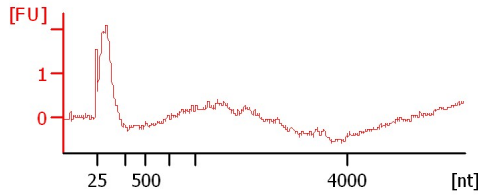
Chip Information:

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

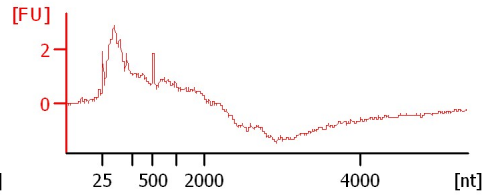
Stationary



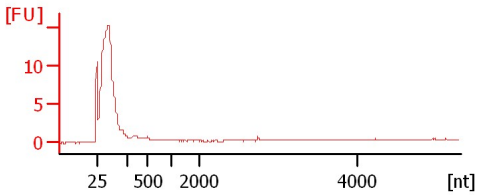
P. Rod



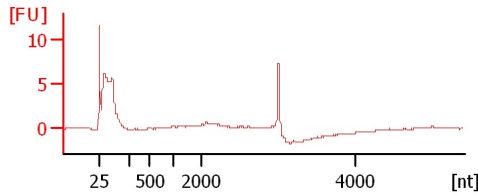
G0



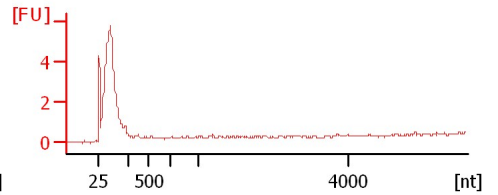
G18



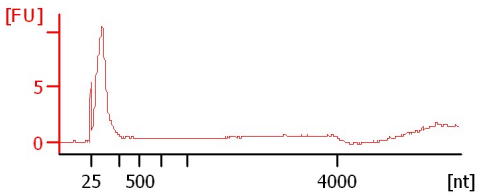
WN 9



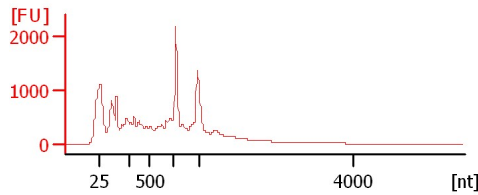
WN 18



W 18



GO old



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Stationary		✓		
P. Rod		✓		
G0		✓		
G18		✓		
WN 9		✓		
WN 18		✓		
W 18		✓		
GO old		✓		
Sample 9				
Sample 10				
Sample 11				
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 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

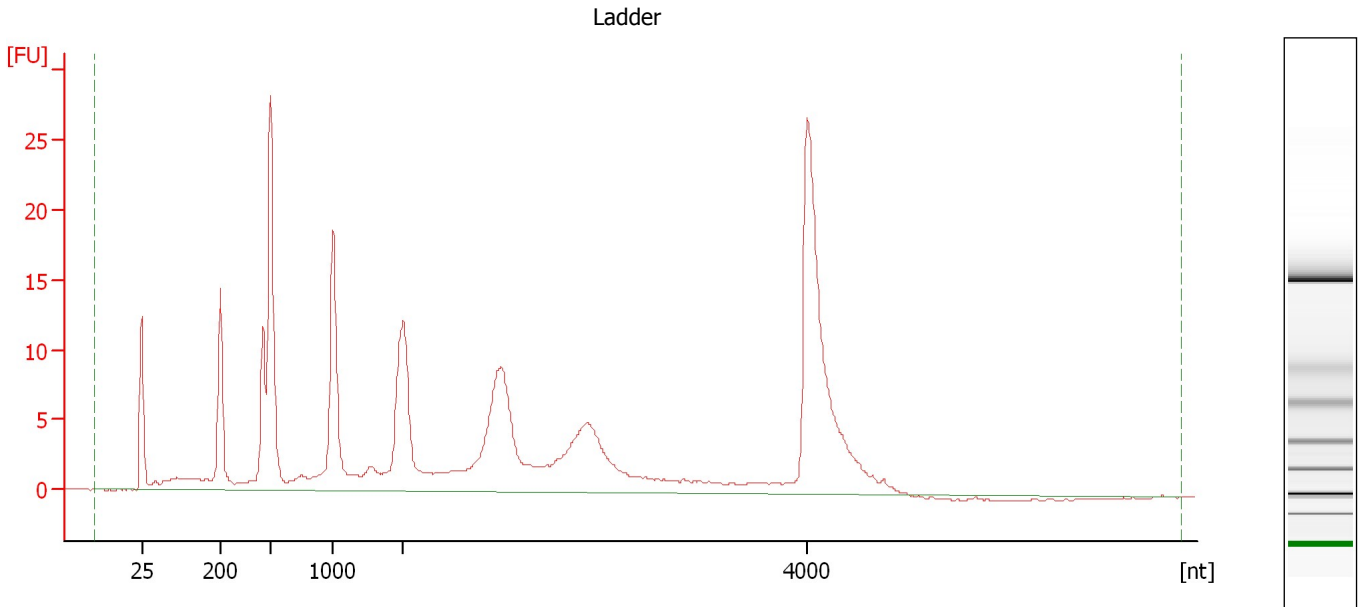
Ladder

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\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary



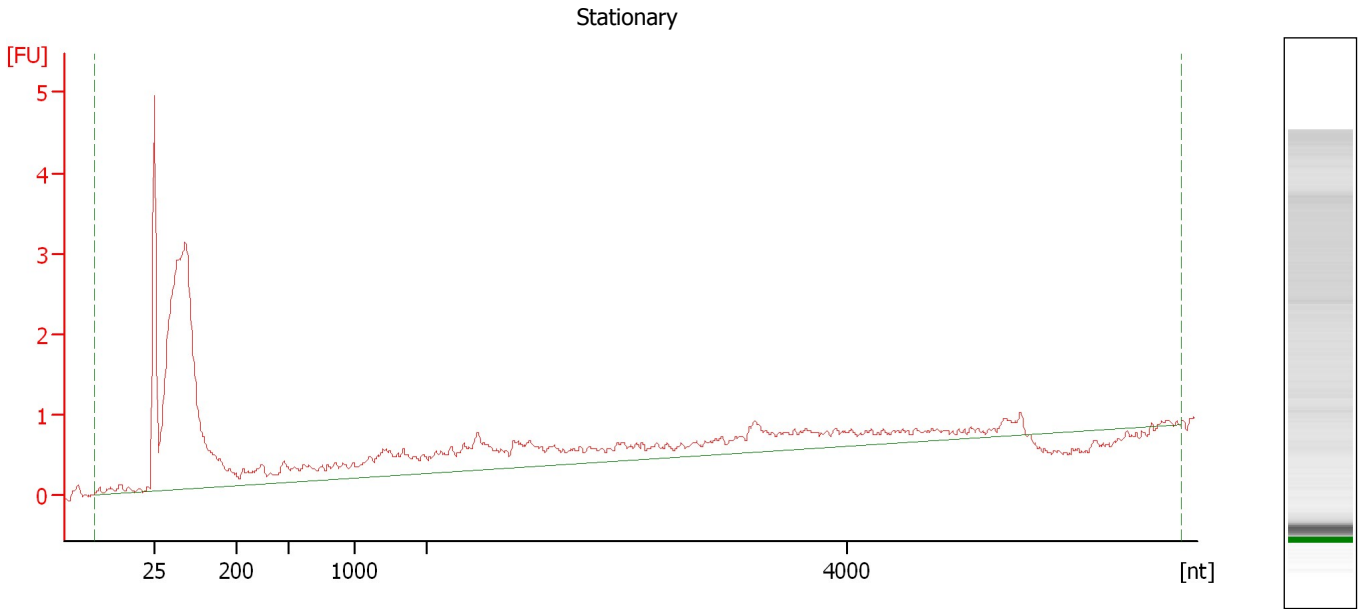
Overall Results for Ladder

RNA Area: 347.3 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Stationary

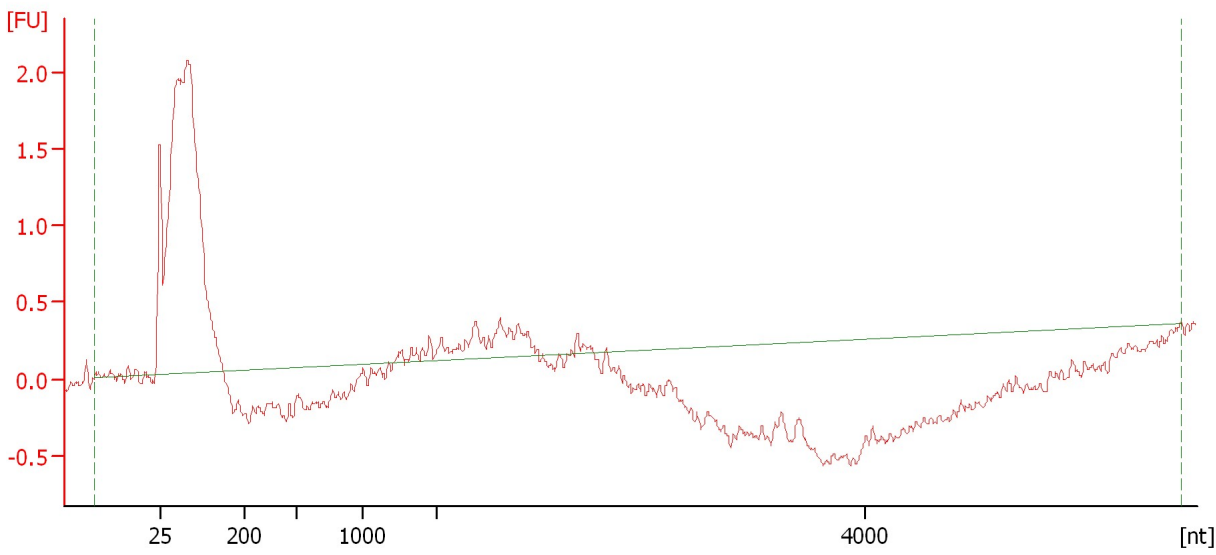
RNA Area:	50.9	rRNA Contamination:	0.0 %
RNA Concentration:	147 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary Continued ...

P. Rod



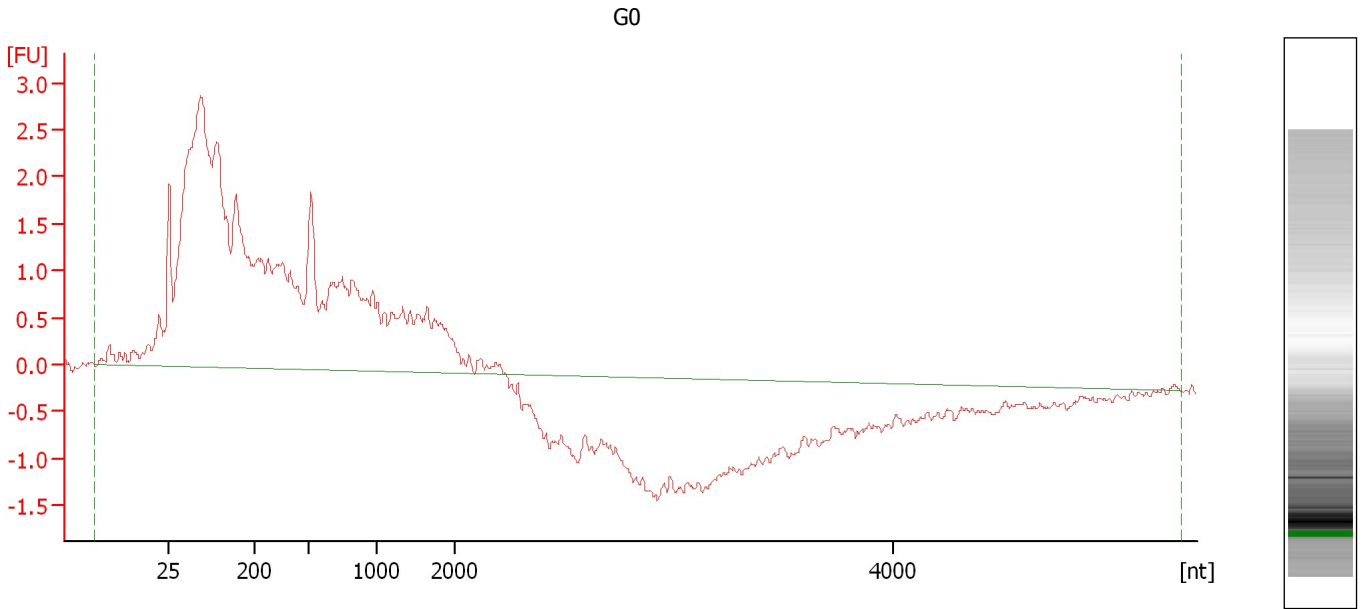
Overall Results for sample 2 : P. Rod

RNA Area:	22.7	rRNA Contamination:	0.0 %
RNA Concentration:	65 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : G0

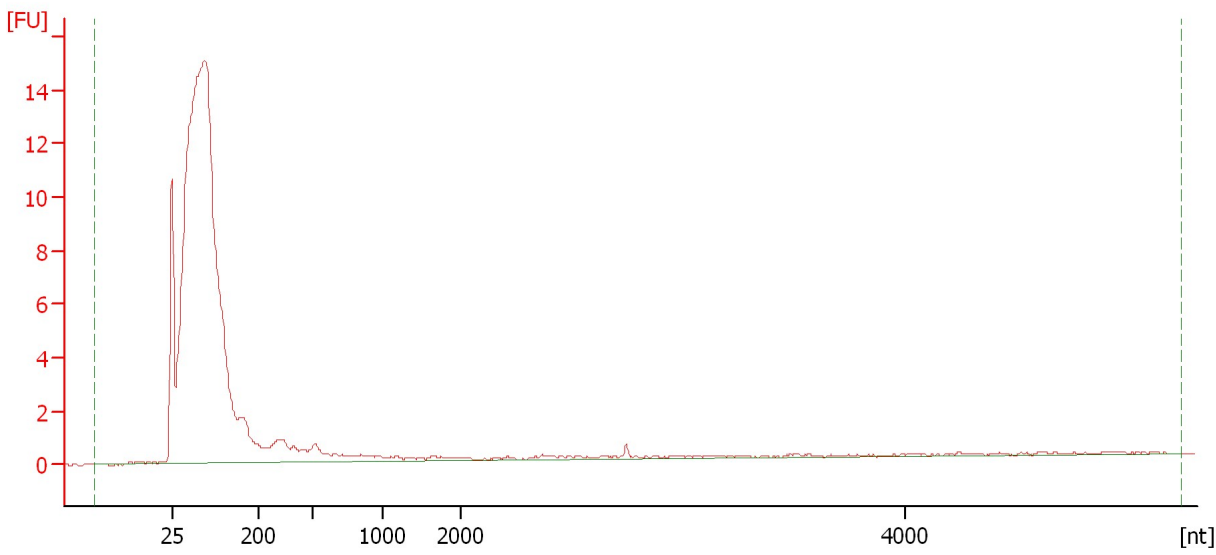
RNA Area:	77.3	rRNA Contamination:	0.0 %
RNA Concentration:	222 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary Continued ...

G18



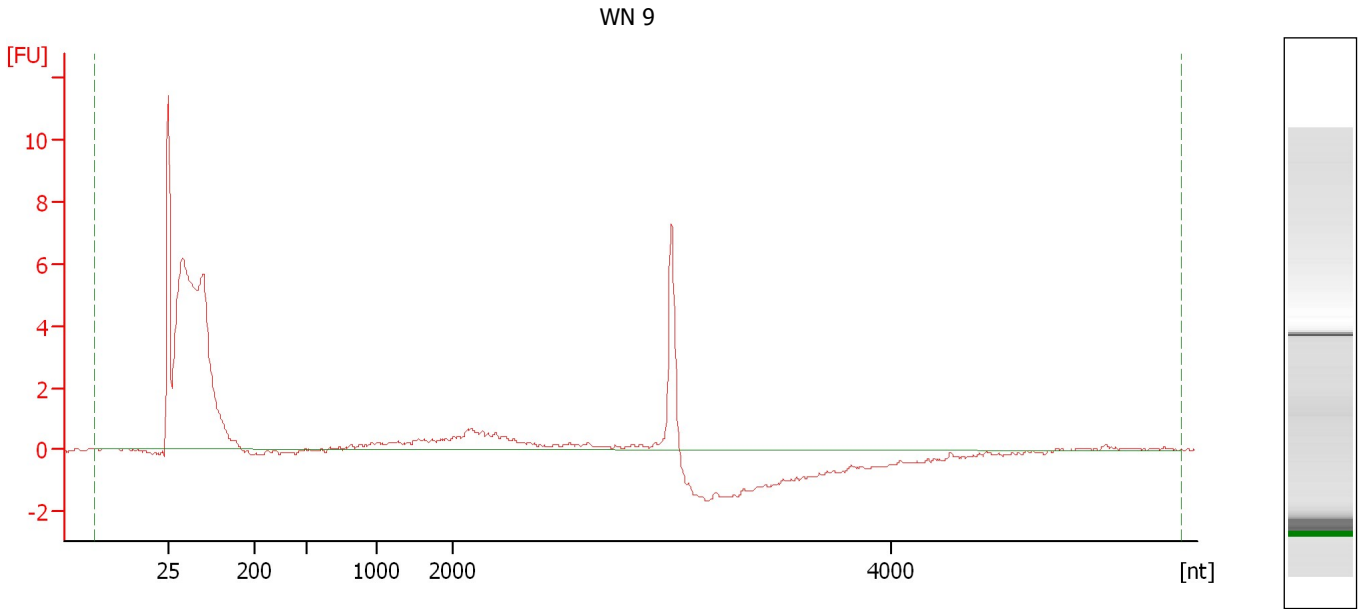
Overall Results for sample 4 : G18

RNA Area: 176.0 rRNA Contamination: 0.0 %
RNA Concentration: 507 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WN 9

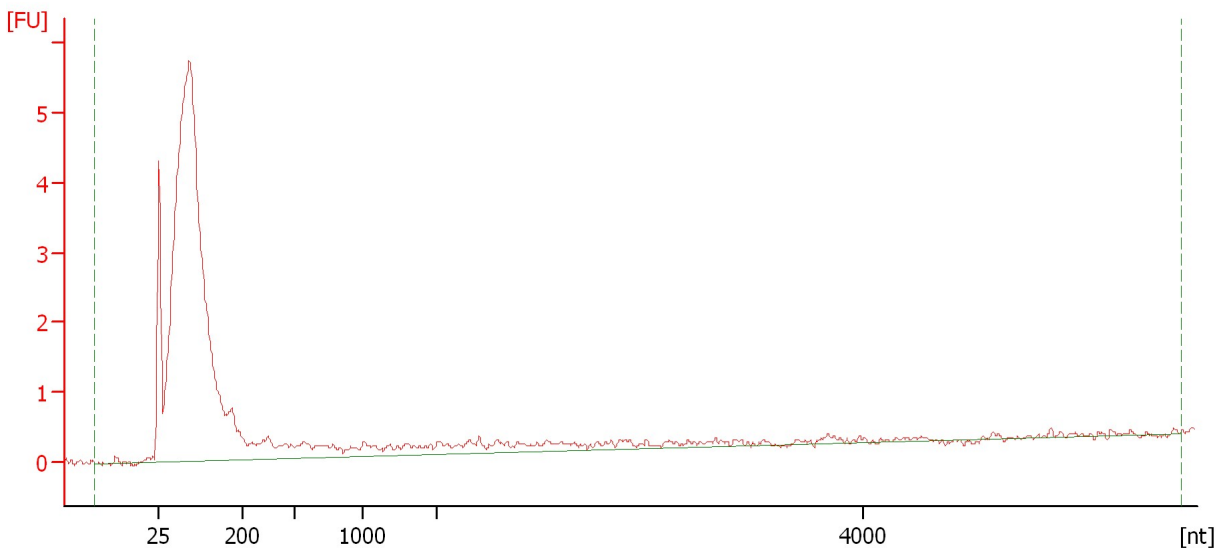
RNA Area:	75.7	rRNA Contamination:	0.0 %
RNA Concentration:	218 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary Continued ...

WN 18



Overall Results for sample 6 : WN 18

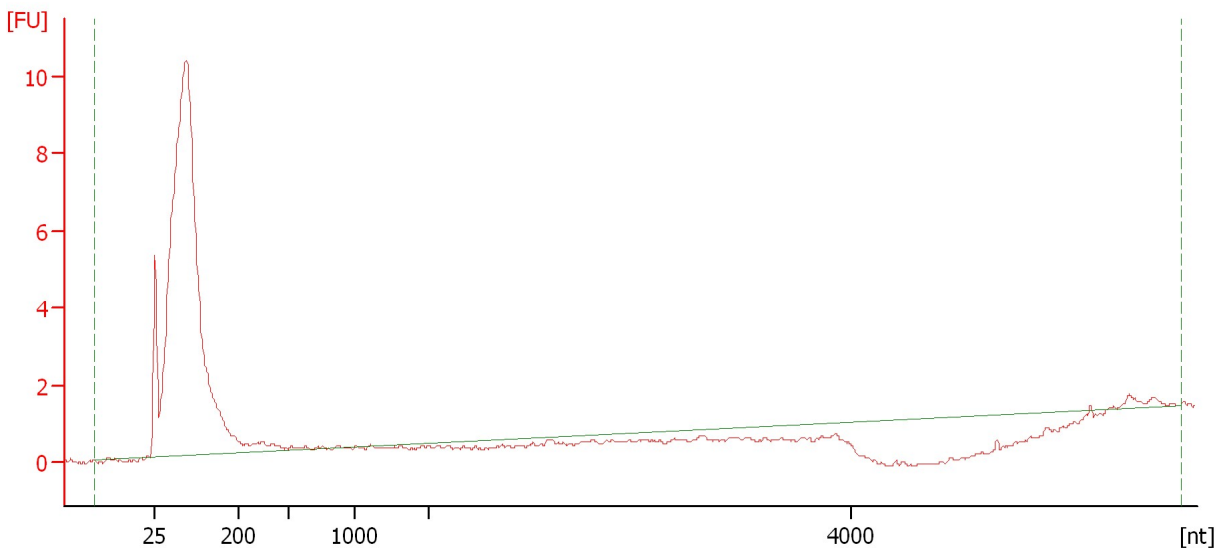
RNA Area:	64.6	rRNA Contamination:	0.0 %
RNA Concentration:	186 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary Continued ...

W 18



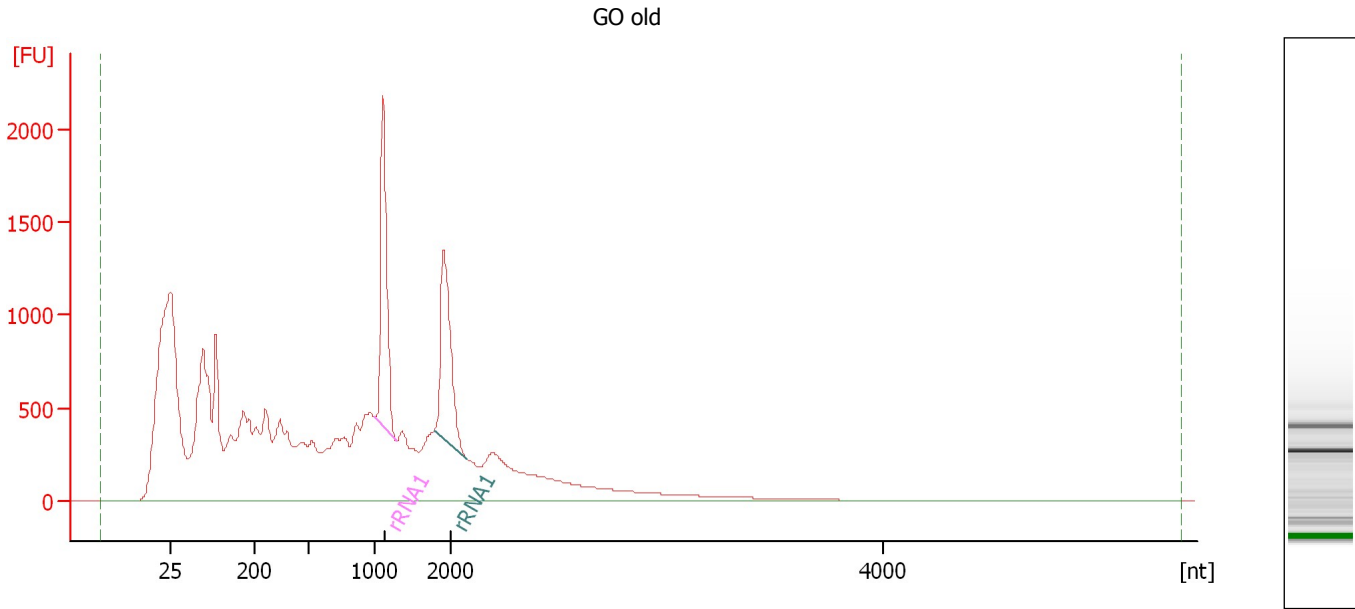
Overall Results for sample 7 : W 18

RNA Area:	92.7	rRNA Contamination:	0.0 %
RNA Concentration:	267 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : GO old

RNA Area: 30,496.3 rRNA Contamination: 14.2 %
RNA Concentration: 87,814 pg/μl

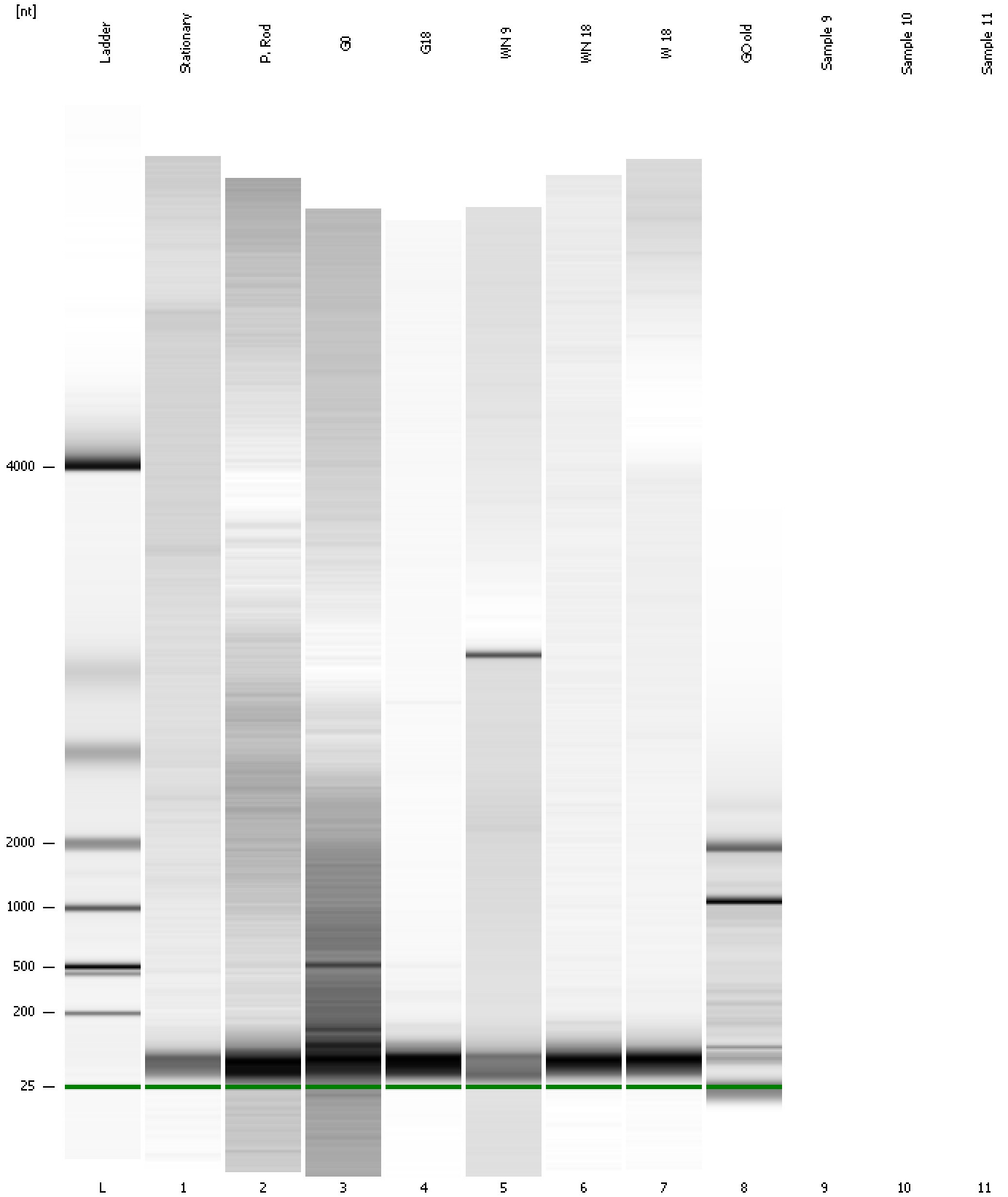
Fragment table for sample 8 : GO old

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	997	1,280	2,361.4	7.7
rRNA1	1,787	2,076	1,983.6	6.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Gel Image



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
Modified: 5/20/2016 3:07:30 PM

Invalid Samples

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.

Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-20\2016-05-20_004.xad

Created: 5/20/2016 2:48:46 PM
 Modified: 5/20/2016 3:07:30 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		5/20/2016 3:09:40 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\2016-05-20\2016-05-20_004.xad)		Instrument	Run		5/20/2016 2:48:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/20/2016 2:48:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/20/2016 2:48:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/20/2016 2:48:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/20/2016 2:48:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/20/2016 2:48:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/20/2016 2:48:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1