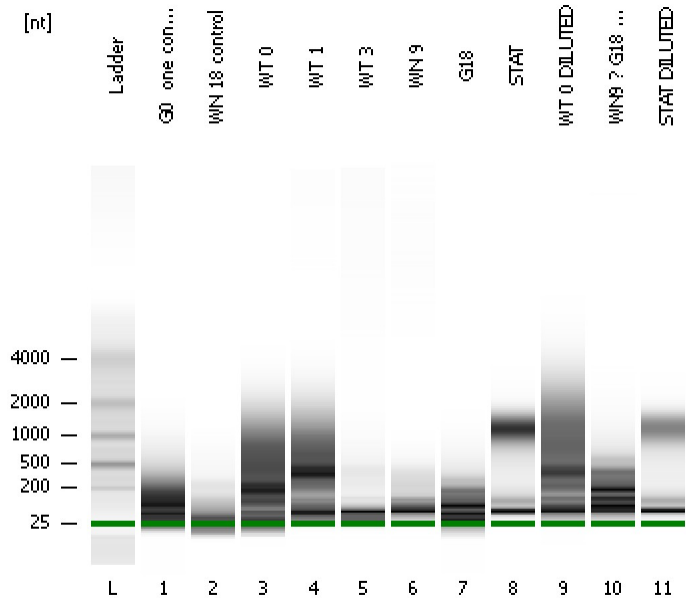


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

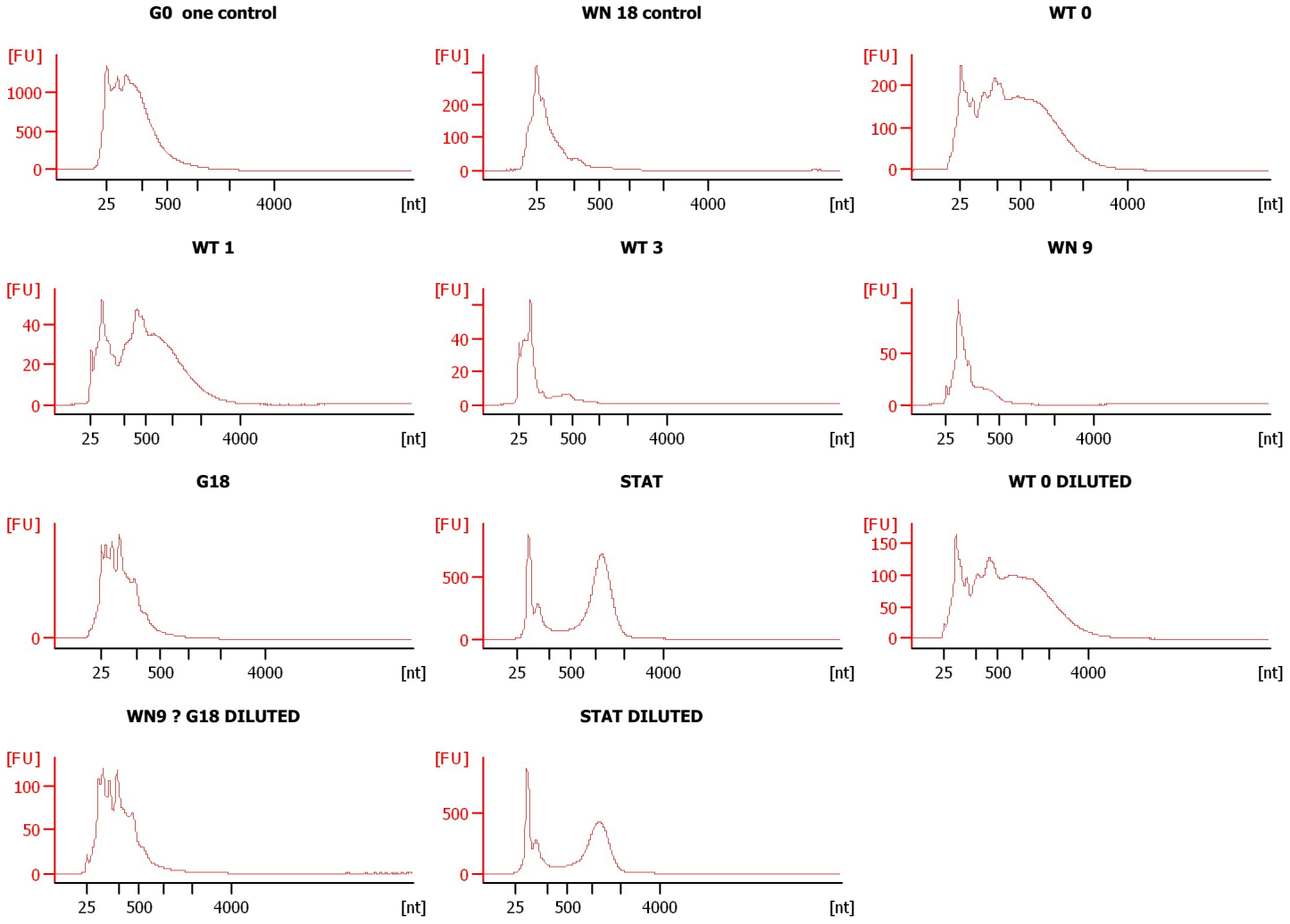
Electrophoresis File Run Summary



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

Chip Information:
 Chip Lot #:
 Reagent Kit Lot #:
 Chip Comments:
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Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
G0 one control		✓		
WN 18 control		✓		
WT 0		✓		
WT 1		✓		
WT 3		✓		
WN 9		✓		
G18		✓		
STAT		✓		
WT 0 DILUTED		✓		
WN9 ? G18 DILUTED		✓		
STAT DILUTED		✓		
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 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/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

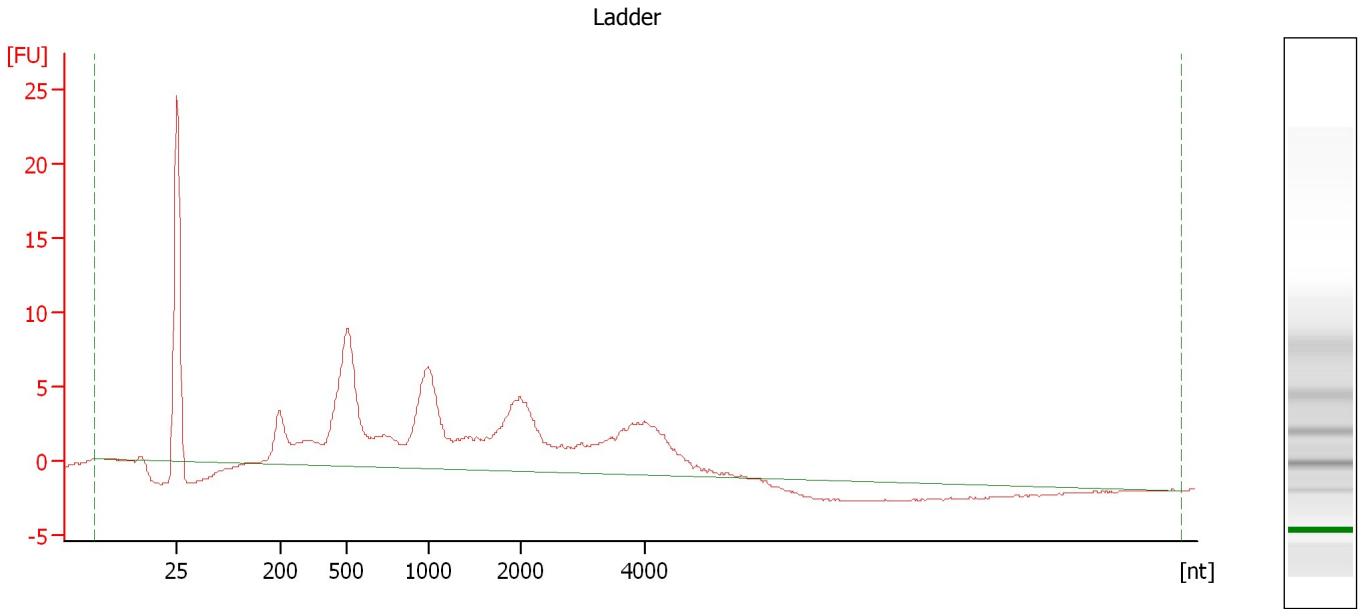
Ladder

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\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary



Overall Results for Ladder

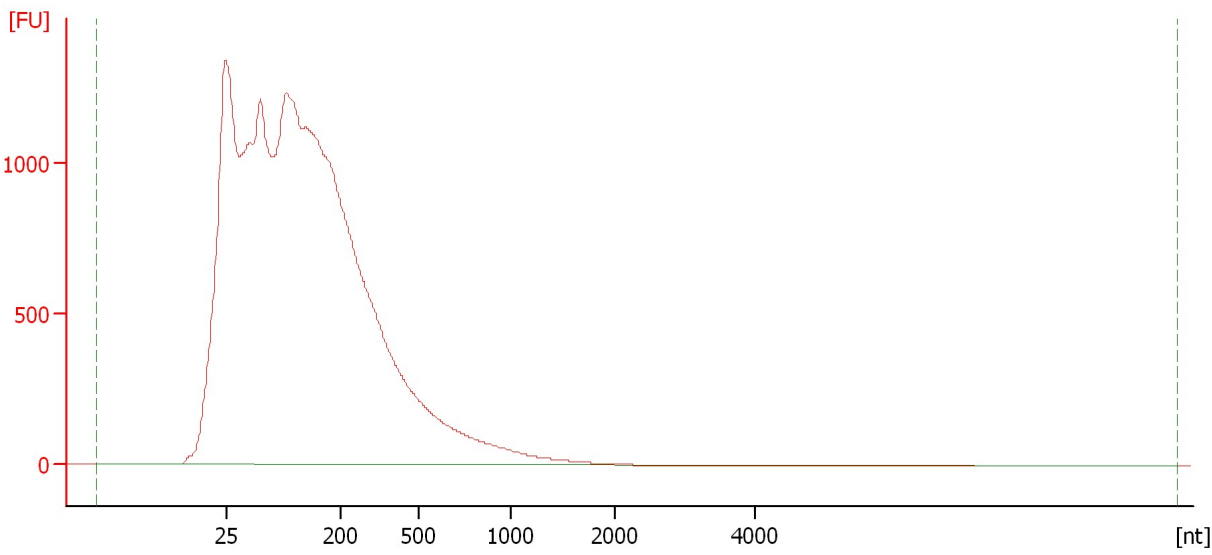
RNA Area: 197.0 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...

G0 one control



Overall Results for sample 1 : G0 one control

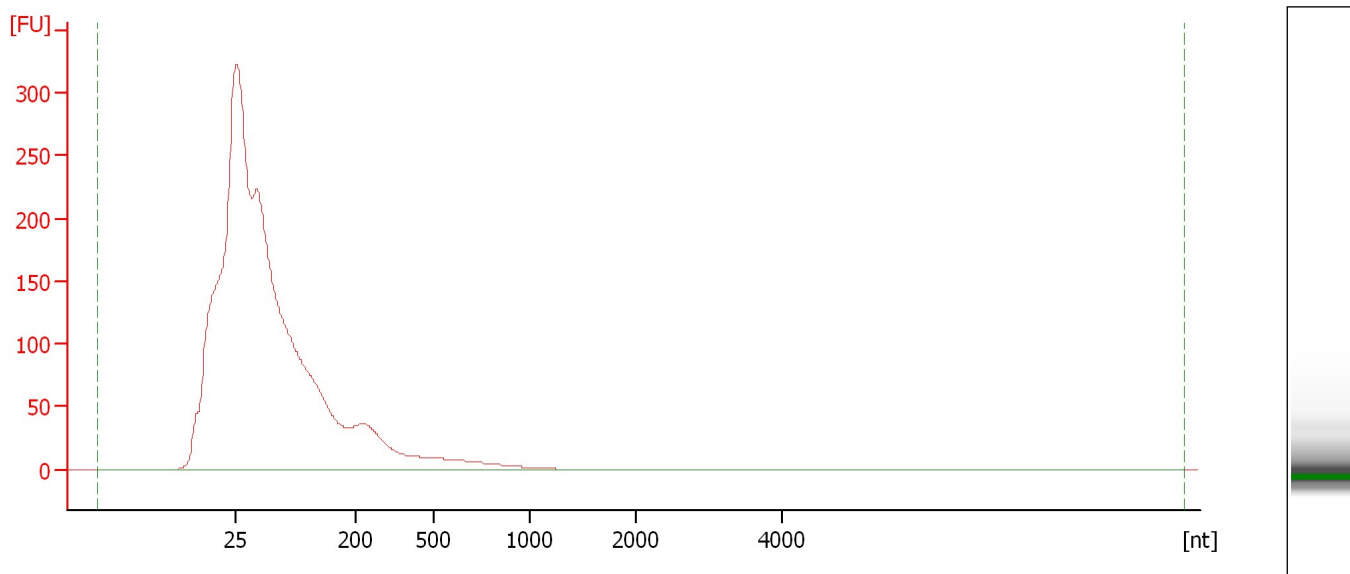
RNA Area: 33,444.8 rRNA Contamination: 0.0 %
RNA Concentration: 169,798 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...

WN 18 control



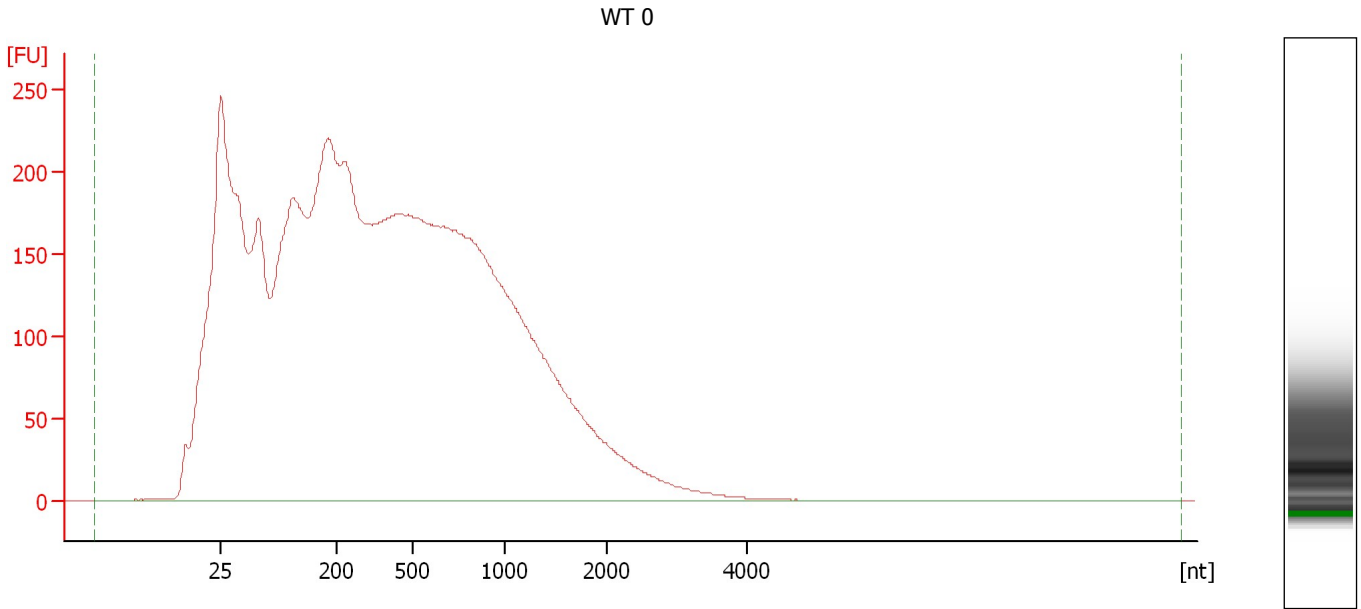
Overall Results for sample 2 : WN 18 control

RNA Area: 2,651.2 rRNA Contamination: 0.0 %
RNA Concentration: 13,460 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...



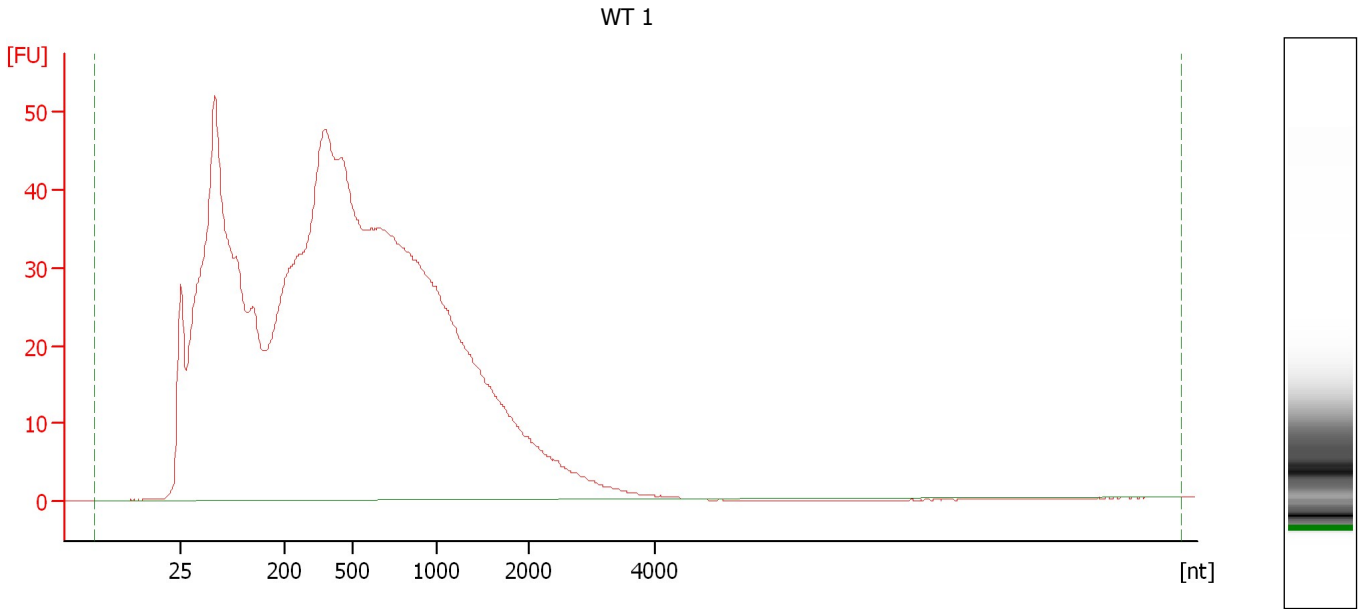
Overall Results for sample 3 : WT 0

RNA Area: 9,540.9 rRNA Contamination: 0.0 %
RNA Concentration: 48,438 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...



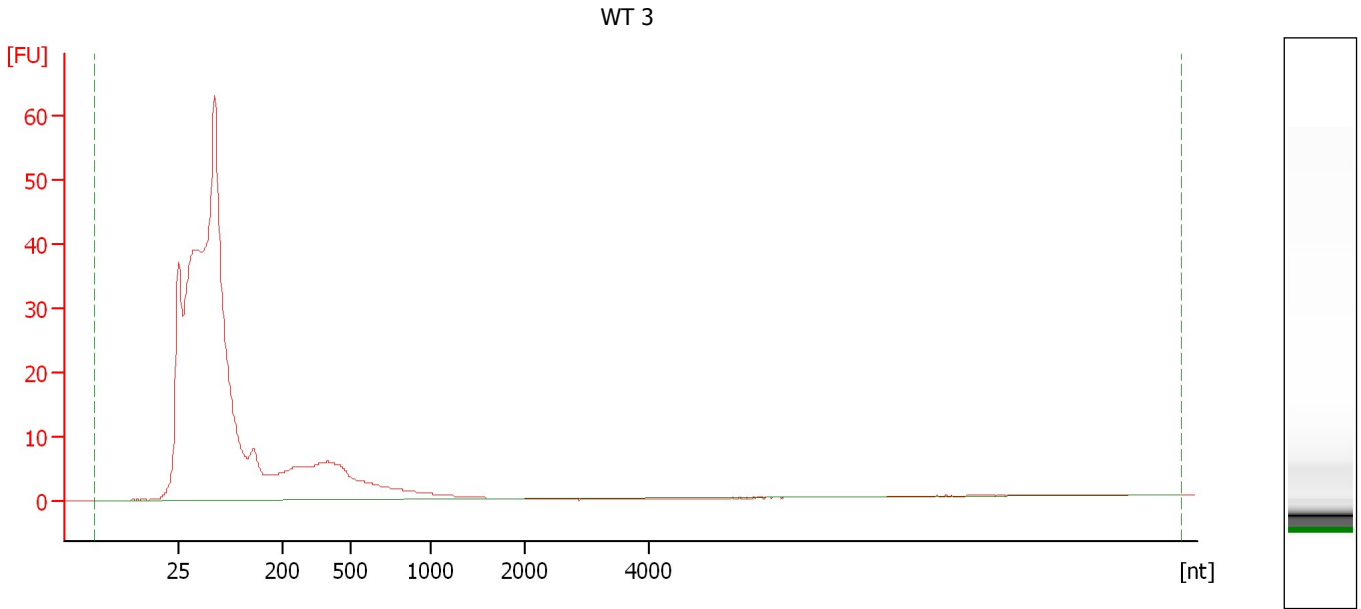
Overall Results for sample 4 : WT 1

RNA Area:	2,056.9	rRNA Contamination:	0.0 %
RNA Concentration:	10,443 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WT 3

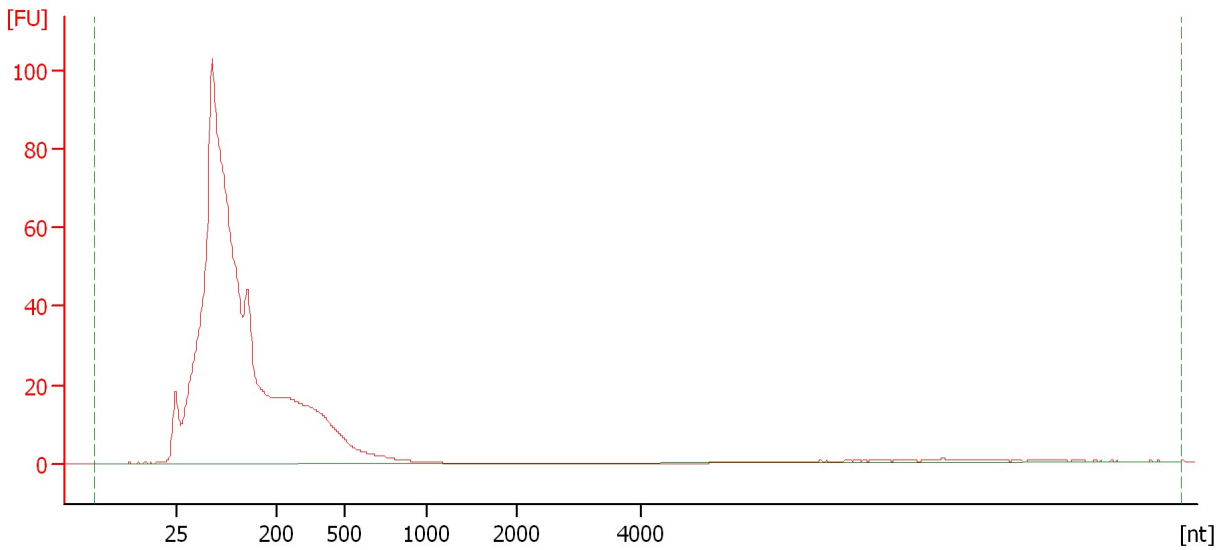
RNA Area:	669.3	rRNA Contamination:	0.0 %
RNA Concentration:	3,398 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...

WN 9



Overall Results for sample 6 : WN 9

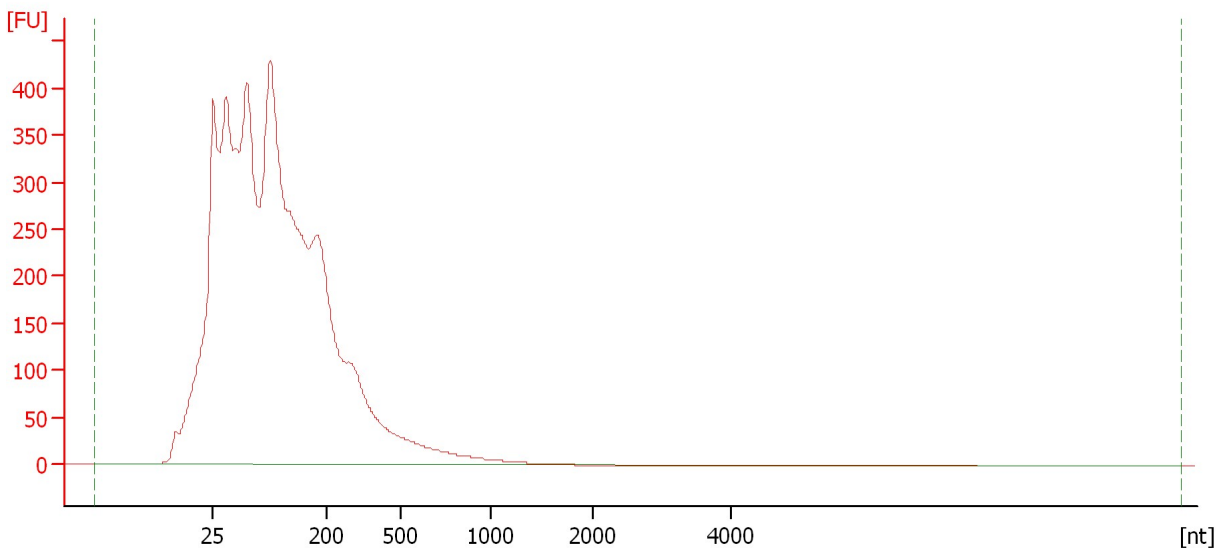
RNA Area: 1,272.4 rRNA Contamination: 0.0 %
RNA Concentration: 6,460 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...

G18



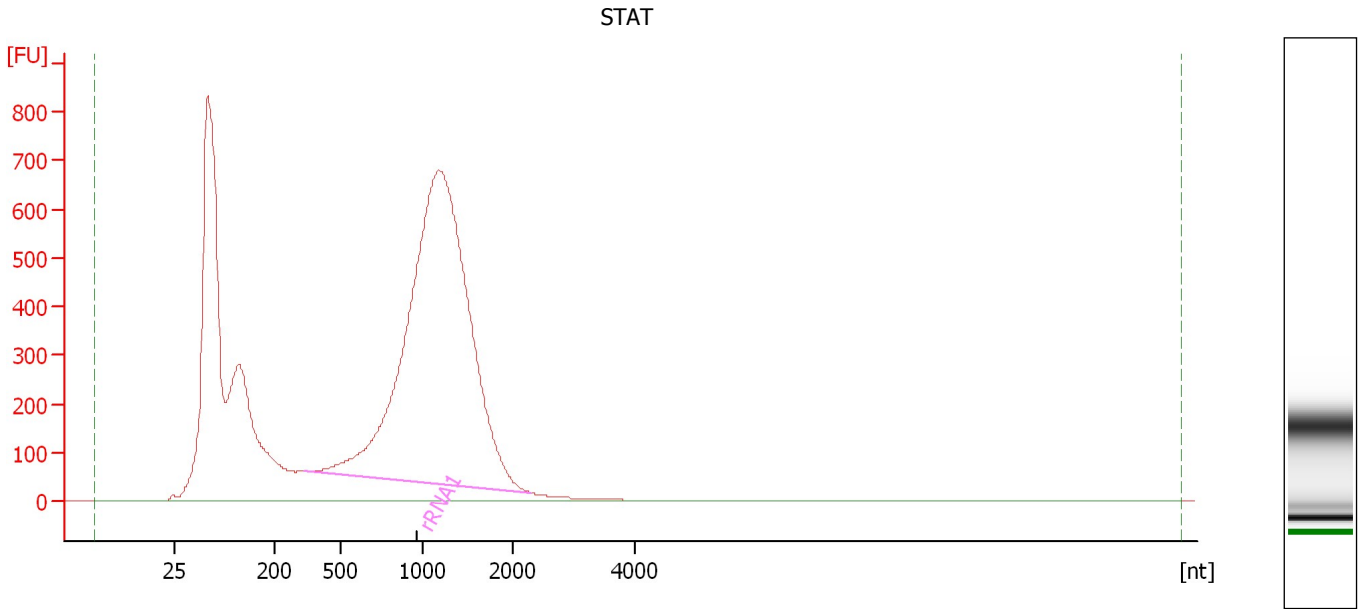
Overall Results for sample 7 : G18

RNA Area: 9,077.7 rRNA Contamination: 0.0 %
RNA Concentration: 46,087 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : STAT

RNA Area: 16,226.3 rRNA Contamination: 48.4 %
RNA Concentration: 82,380 pg/μl

Fragment table for sample 8 : STAT

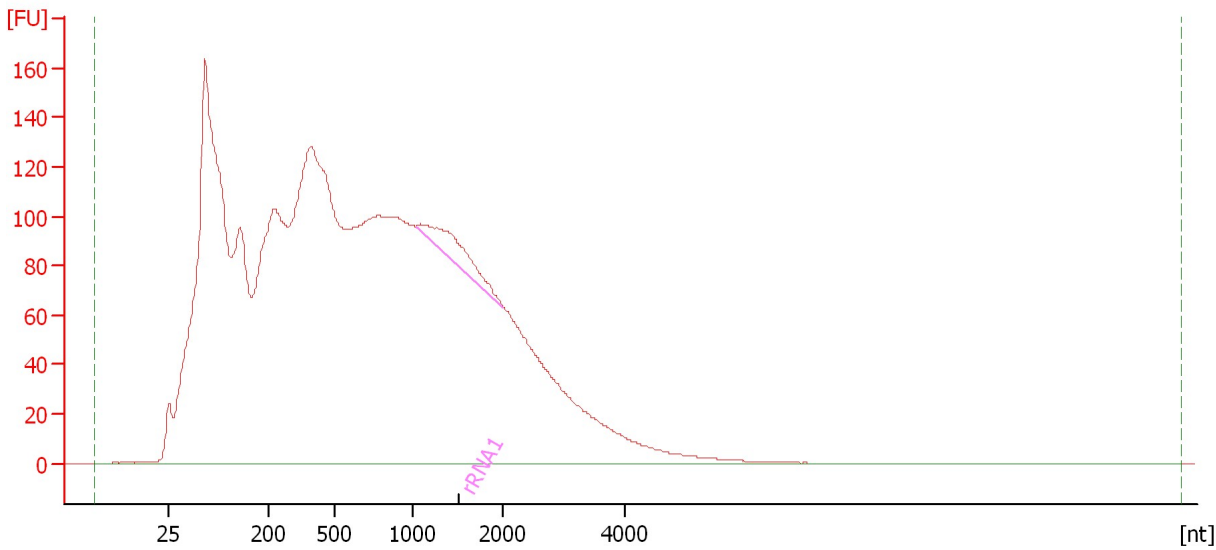
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	337	2,286	7,851.1	48.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...

WT 0 DILUTED



Overall Results for sample 9 : WT 0 DILUTED

RNA Area: 7,034.9 rRNA Contamination: 1.2 %
RNA Concentration: 35,716 pg/μl

Fragment table for sample 9 : WT 0 DILUTED

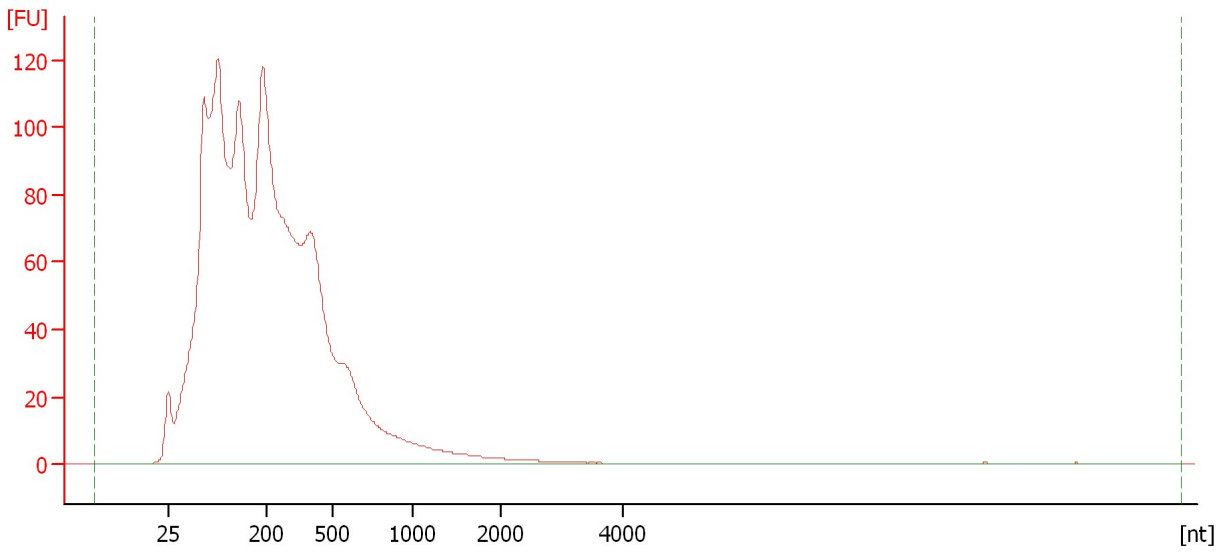
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,028	2,002	82.9	1.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...

WN9 ? G18 DILUTED



Overall Results for sample 10 : WN9 ? G18 DILUTED

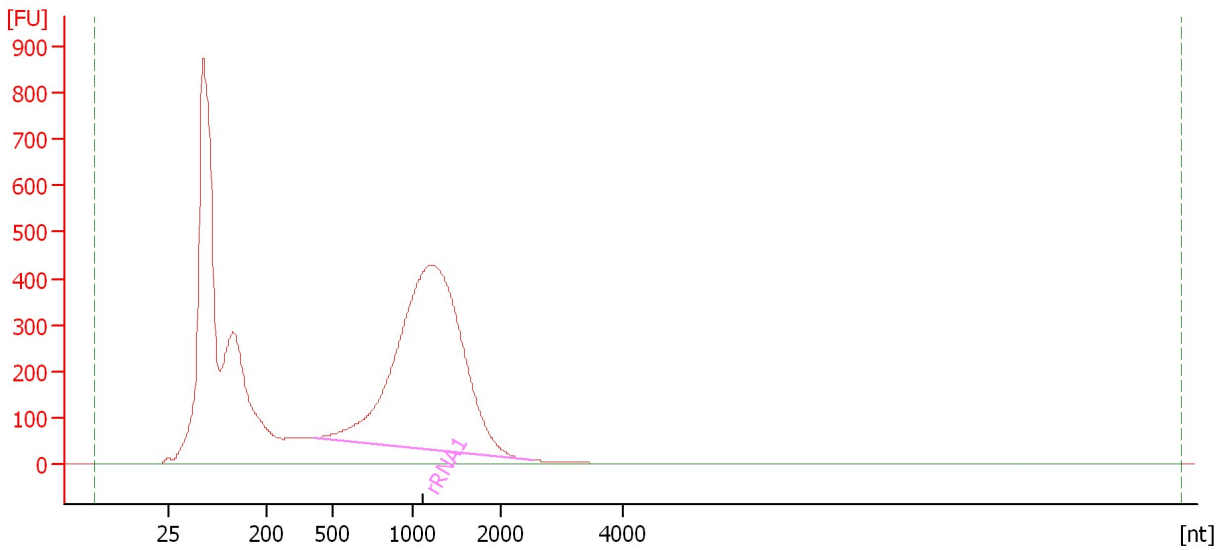
RNA Area: 3,158.3 rRNA Contamination: 0.0 %
RNA Concentration: 16,035 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Electropherogram Summary Continued ...

STAT DILUTED



Overall Results for sample 11 : STAT DILUTED

RNA Area: 13,313.6 rRNA Contamination: 55.4 %
RNA Concentration: 67,592 pg/μl

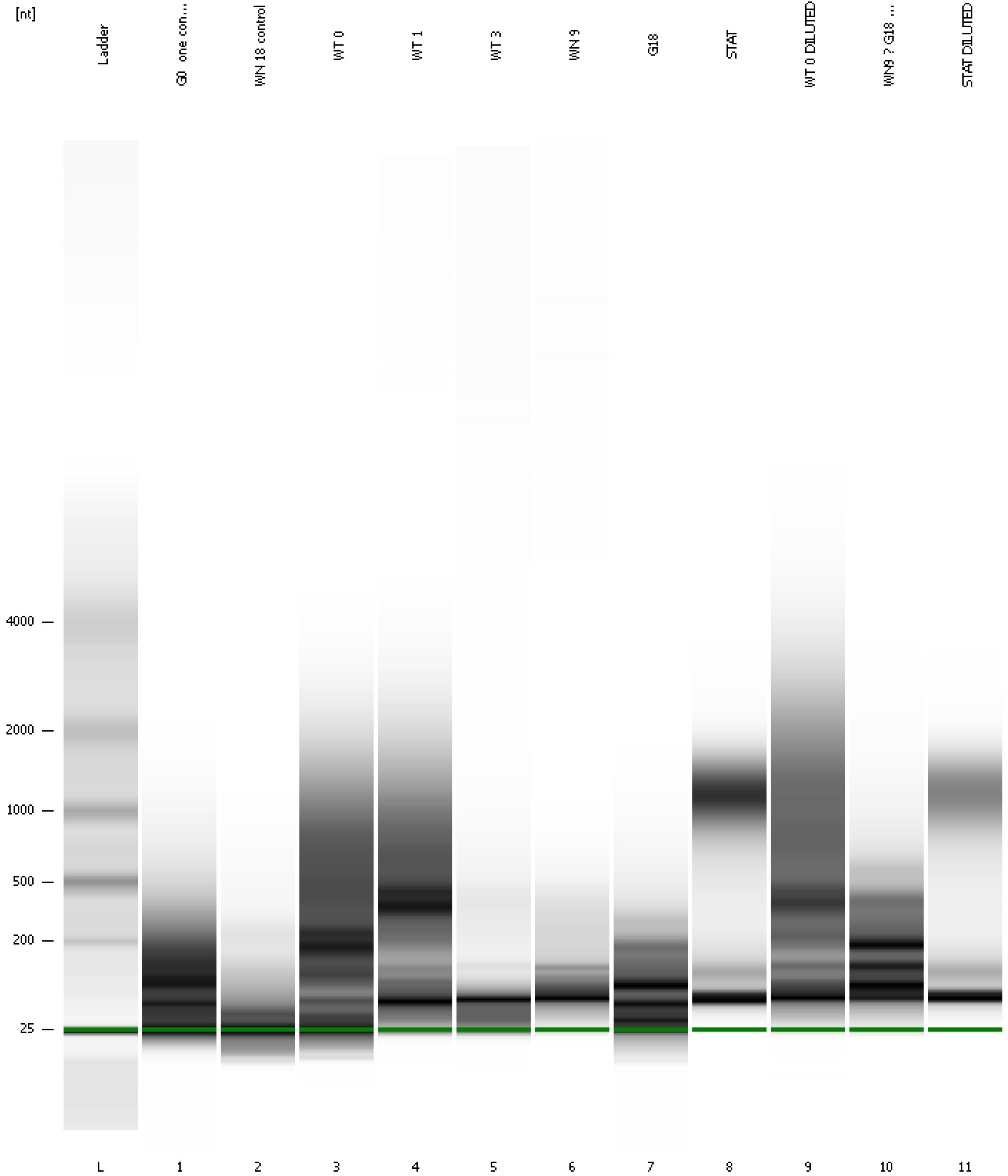
Fragment table for sample 11 : STAT DILUTED

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	420	2,517	5,178.1	38.9
rRNA2	896	2,517	2,199.2	16.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
Modified: 7/20/2016 3:30:51 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-20\2016-07-20_003.xad

Created: 7/20/2016 3:04:56 PM
 Modified: 7/20/2016 3:30:51 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		7/20/2016 3:30:50 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\2016-07-20\2016-07-20_003.xad)		Instrument	Run		7/20/2016 3:05:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/20/2016 3:05:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/20/2016 3:05:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/20/2016 3:05:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/20/2016 3:05:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/20/2016 3:05:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/20/2016 3:05:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1