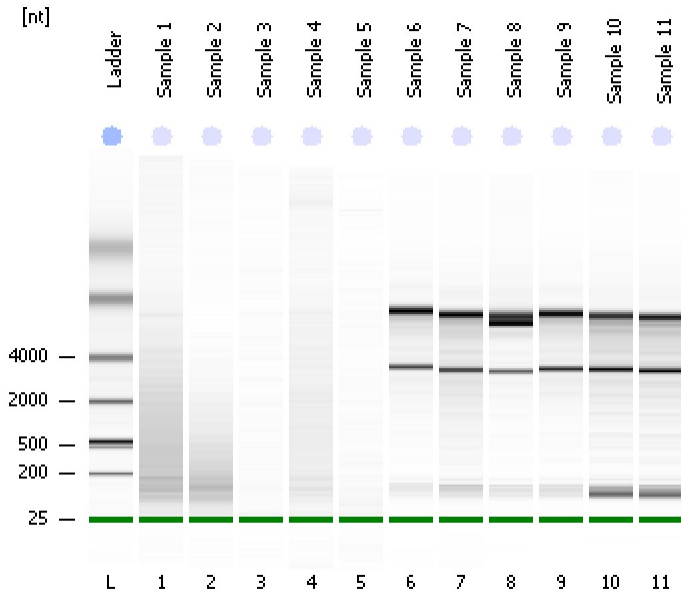


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electrophoresis File Run Summary



Instrument Information:

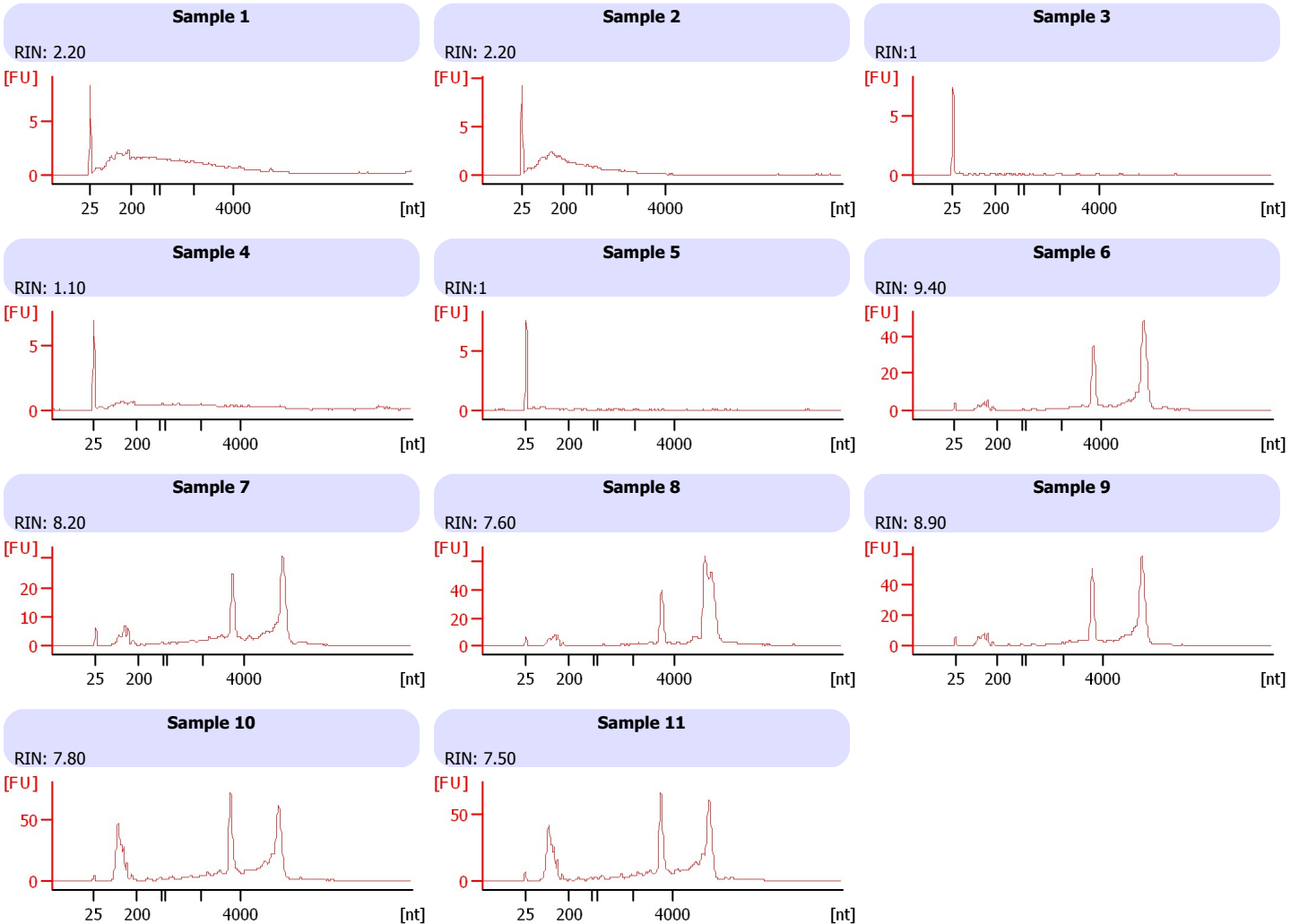
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
 Modified: 8/9/2016 10:35:31 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 2.20	
Sample 2		✓	RIN: 2.20	
Sample 3		✓	RIN:1	
Sample 4		✓	RIN: 1.10	
Sample 5		✓	RIN:1	
Sample 6		✓	RIN: 9.40	
Sample 7		✓	RIN: 8.20	
Sample 8		✓	RIN: 7.60	
Sample 9		✓	RIN: 8.90	
Sample 10		✓	RIN: 7.80	
Sample 11		✓	RIN: 7.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

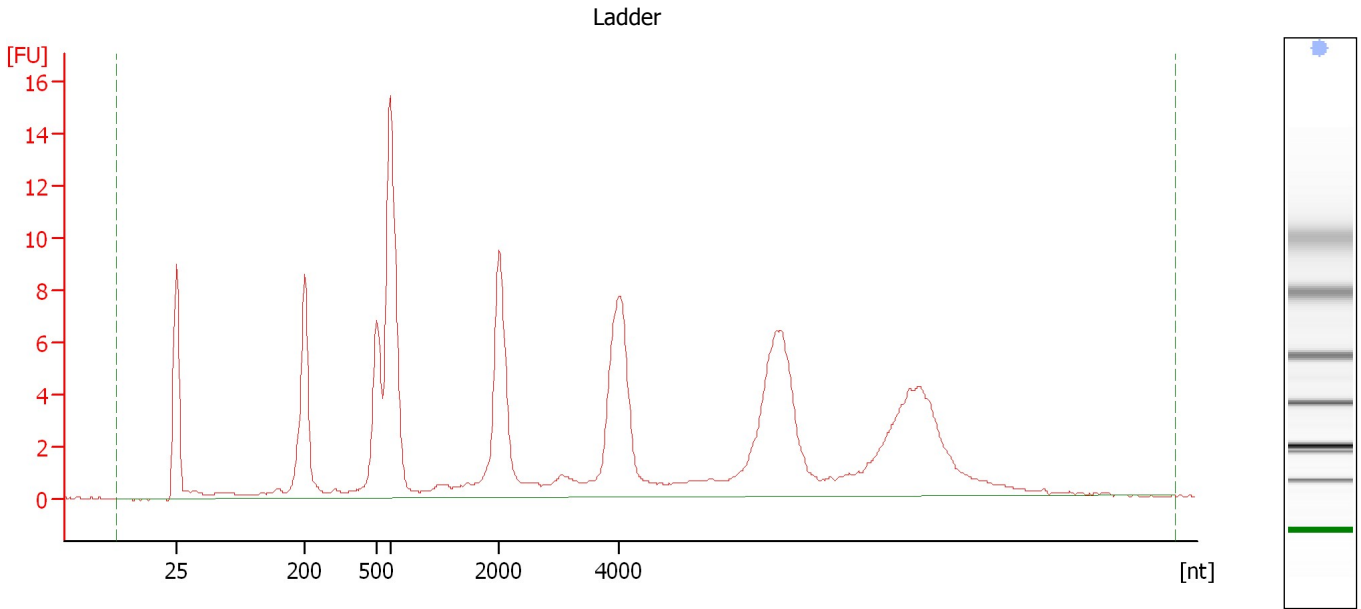
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary



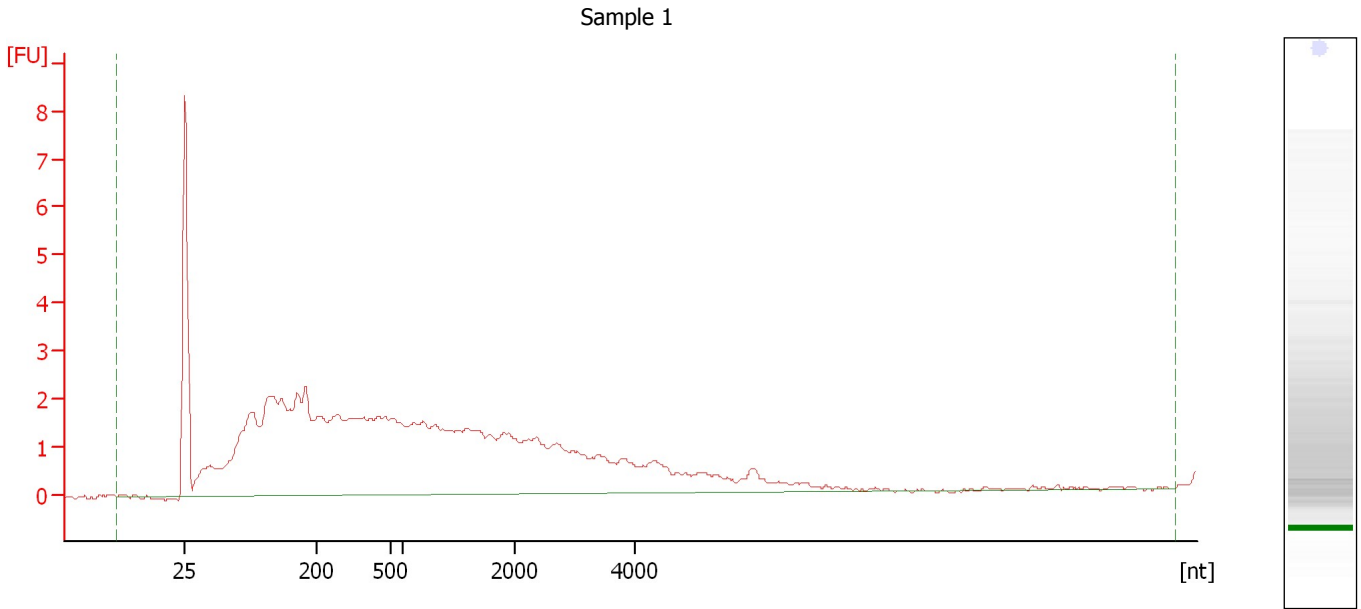
Overall Results for Ladder

RNA Area:	155.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

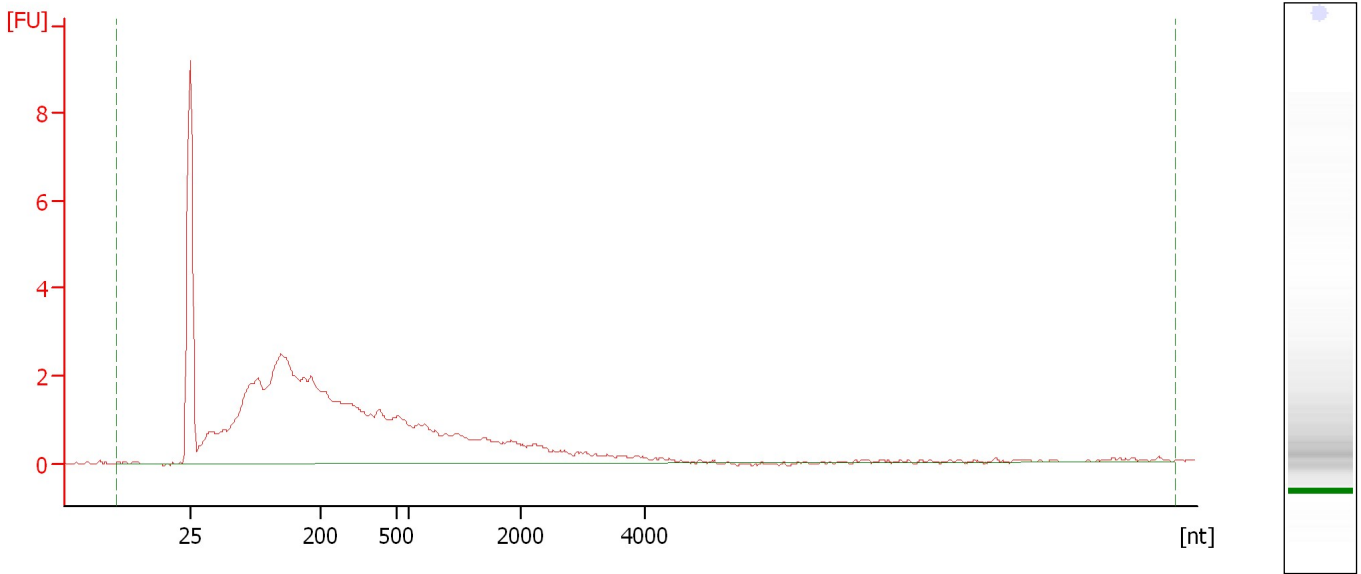
RNA Area:	88.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	570 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...

Sample 2



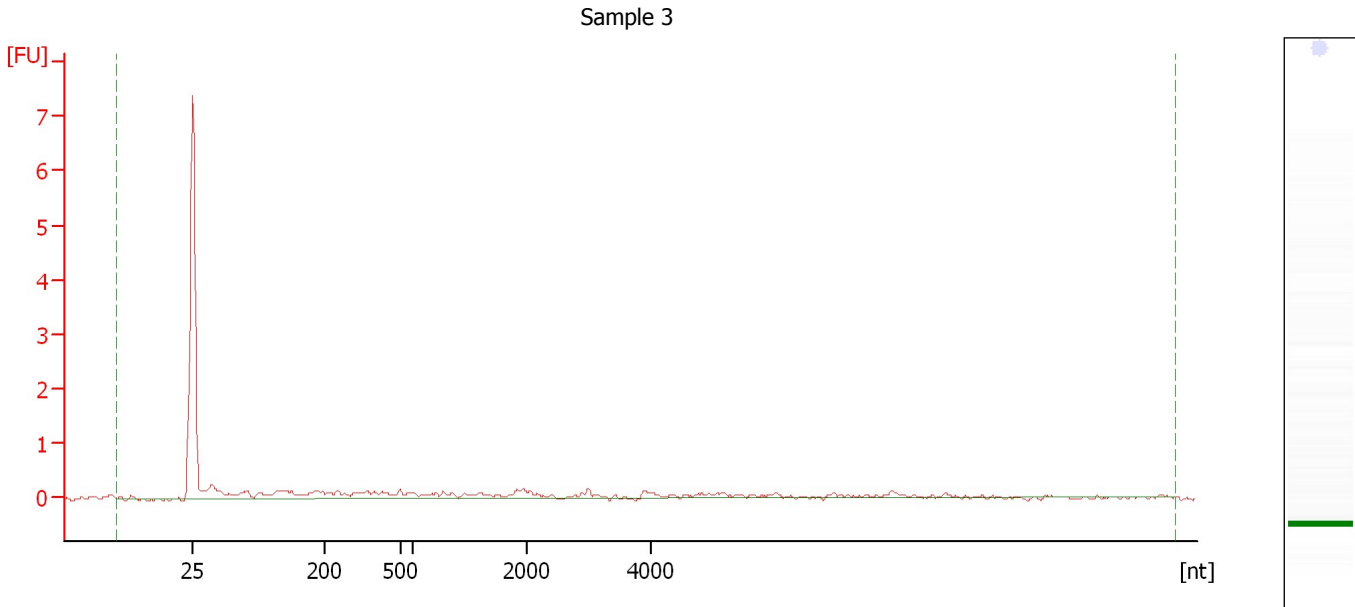
Overall Results for sample 2 : Sample 2

RNA Area:	62.2	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	401 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

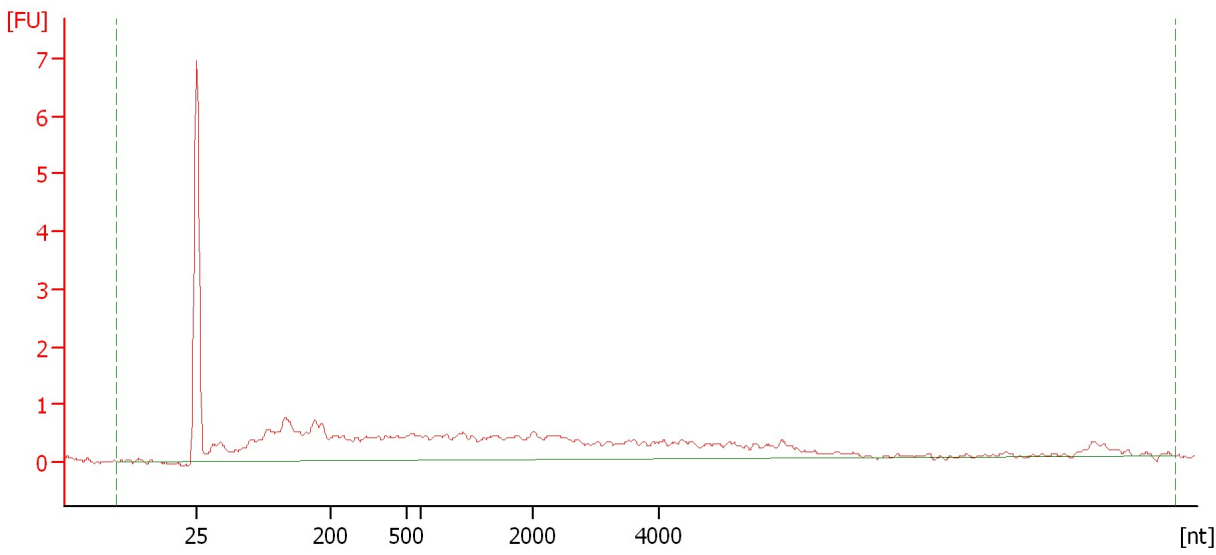
RNA Area:	6.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	42 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

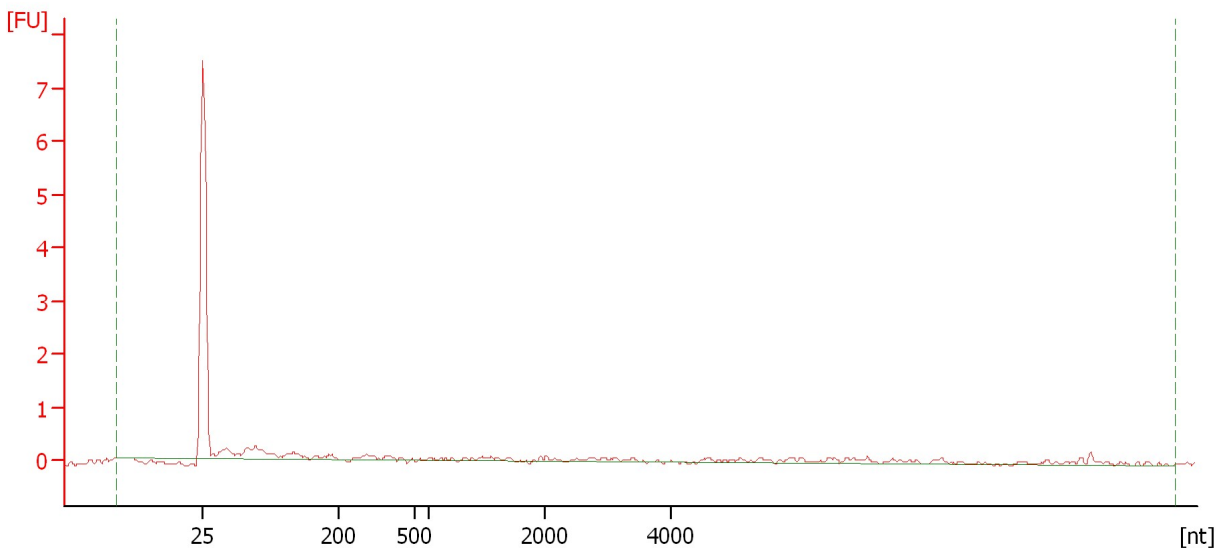
RNA Area:	28.2	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	182 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...

Sample 5



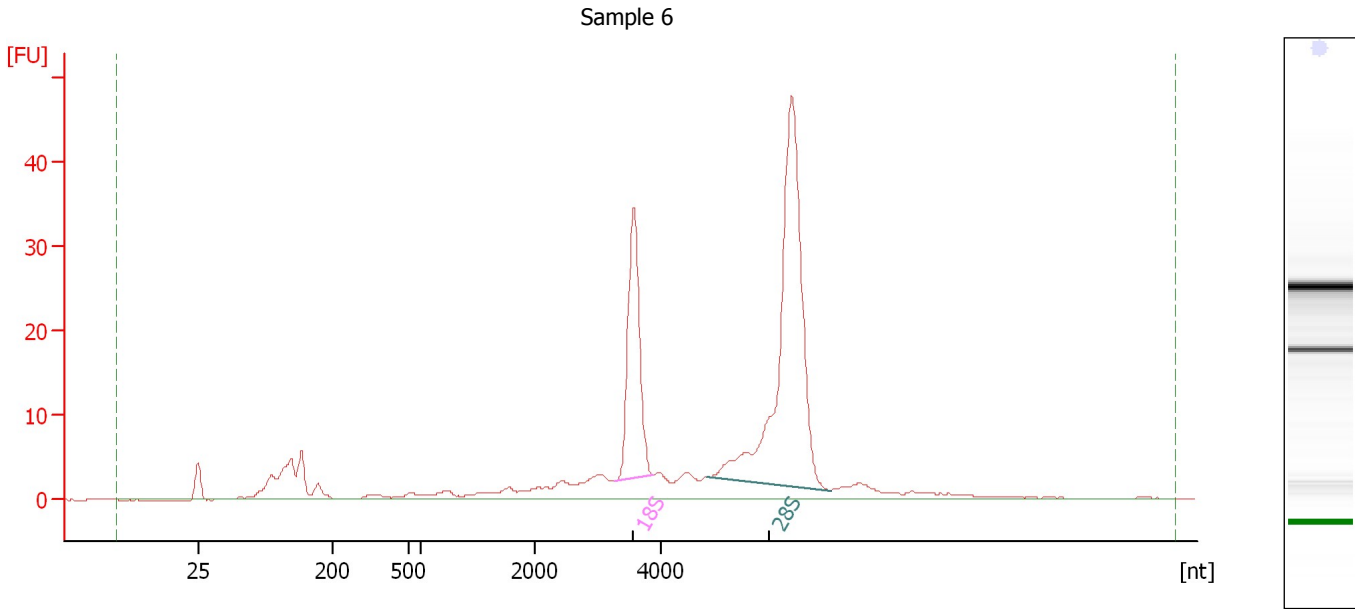
Overall Results for sample 5 : Sample 5

RNA Area:	3.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	25 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	278.9	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	1,799 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 9.40

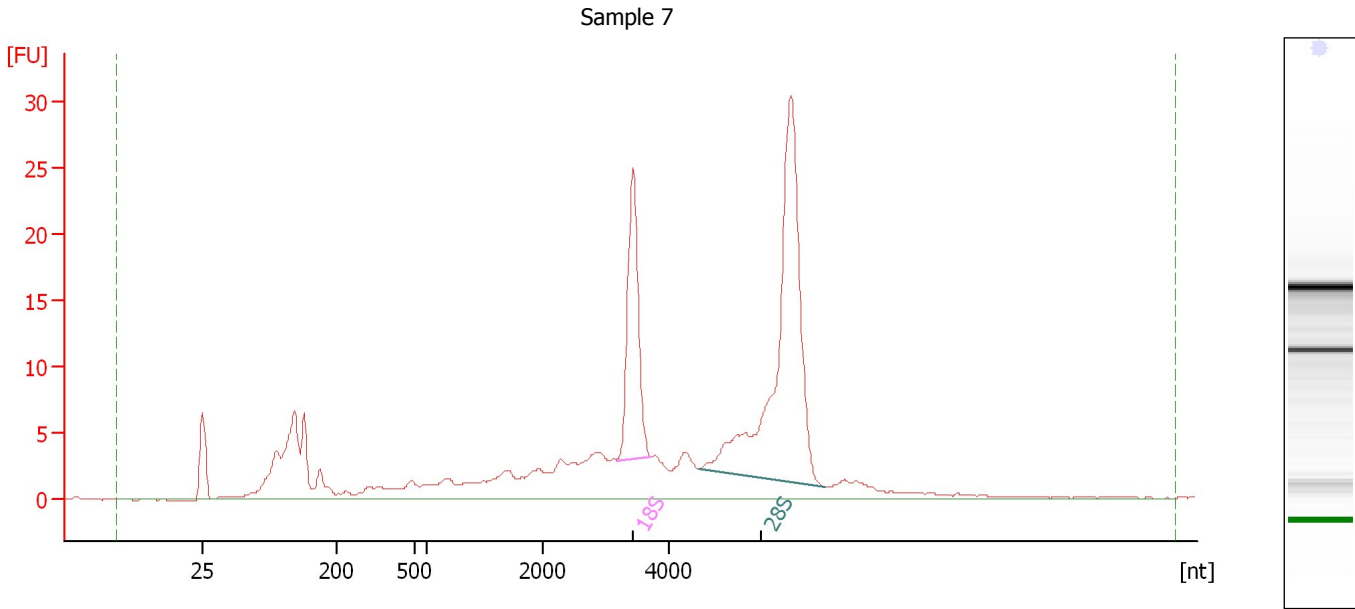
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,272	3,887	46.1	16.5
28S	4,759	6,724	110.8	39.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	245.3	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	1,582 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 8.20

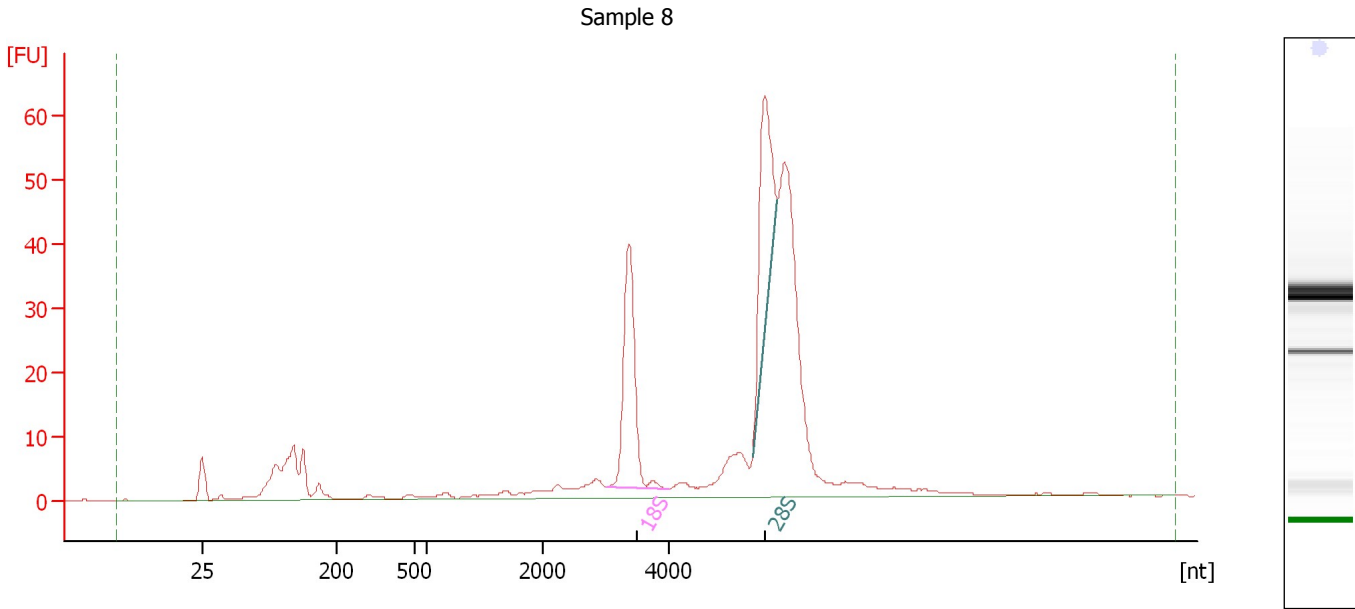
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,164	3,707	28.8	11.7
28S	4,469	6,469	73.2	29.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	394.3	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	2,543 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.60

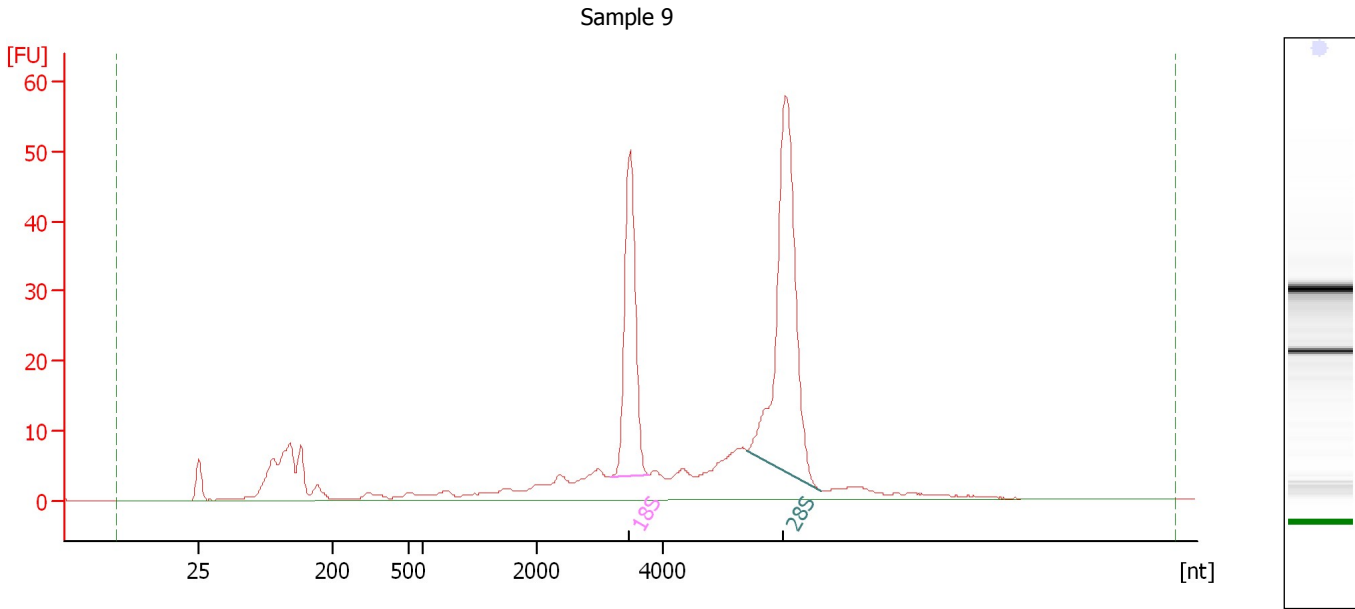
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,012	3,995	52.3	13.3
28S	5,333	5,723	46.6	11.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	371.7	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	2,397 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.90

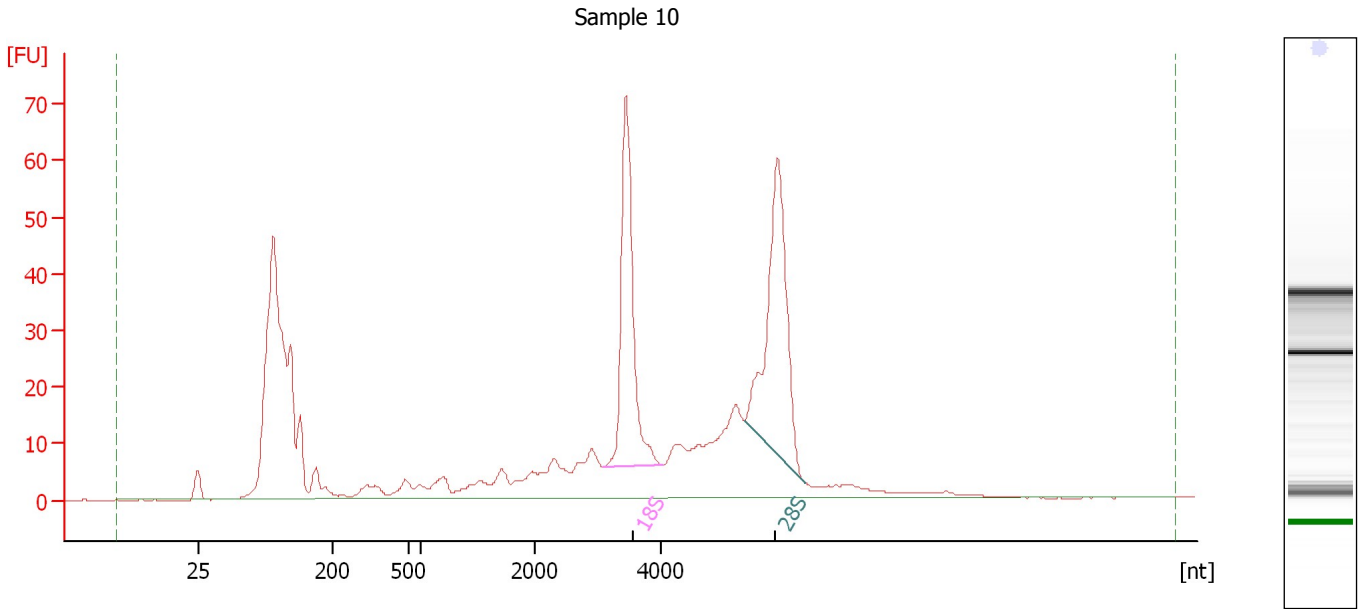
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,172	3,769	61.9	16.7
28S	5,355	6,515	106.3	28.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	702.2	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	4,529 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.80

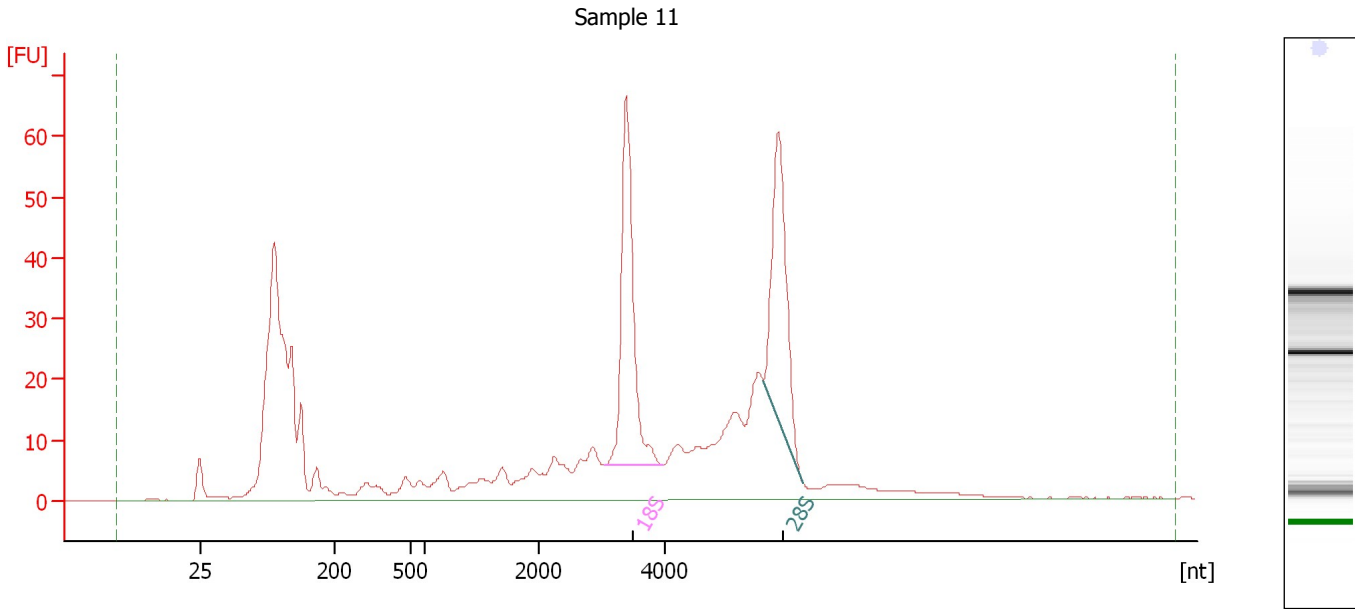
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,084	4,024	93.3	13.3
28S	5,340	6,297	106.9	15.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	688.8	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	4,442 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 7.50

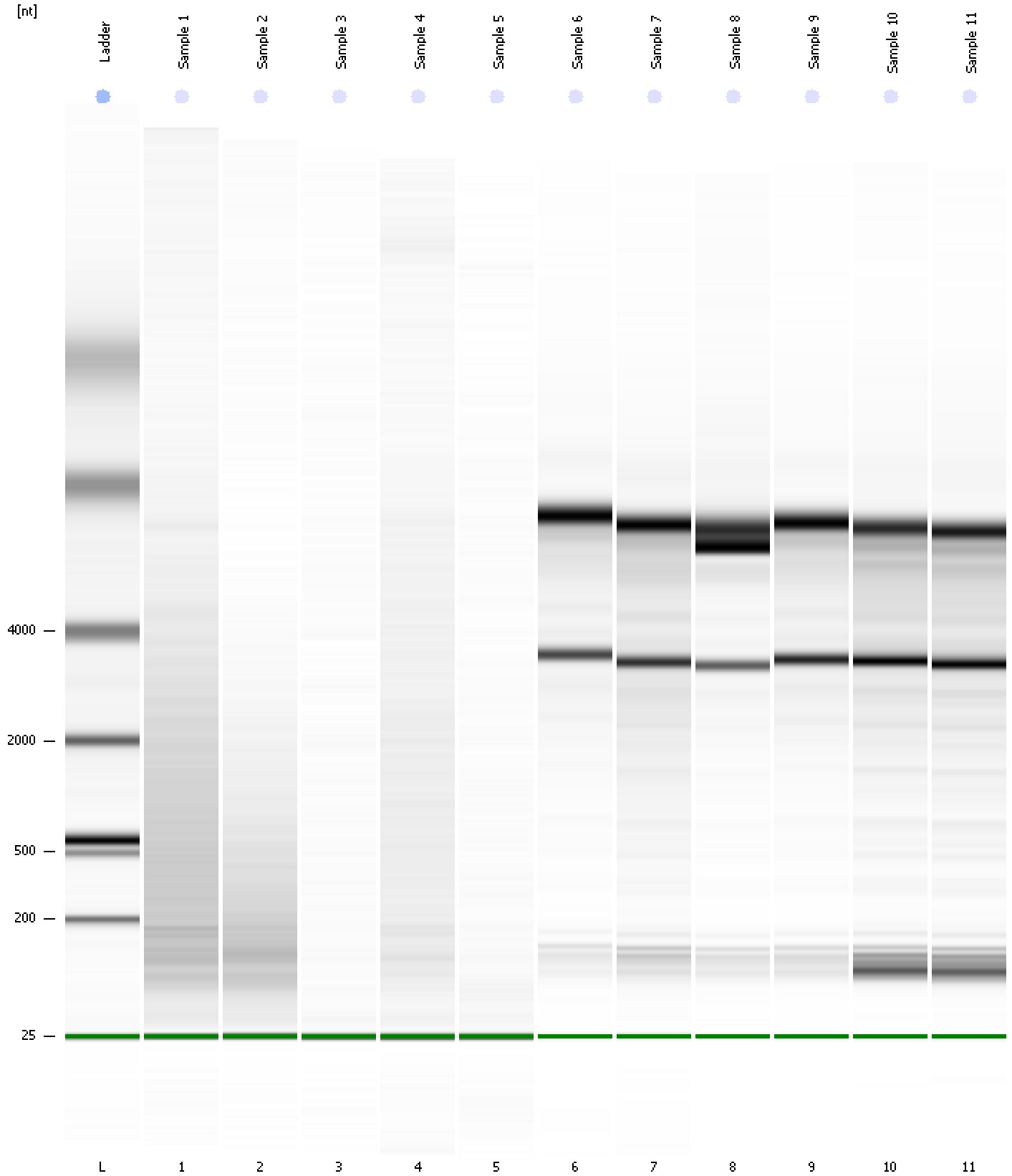
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,039	3,975	87.8	12.8
28S	5,575	6,205	72.6	10.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
Modified: 8/9/2016 10:35:31 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-09\2016-08-09_001.xad

Created: 8/9/2016 10:12:36 AM
 Modified: 8/9/2016 10:35:31 AM

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		8/9/2016 10:35:30 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\2016-08-09\2016-08-09_001.xad)		Instrument	Run		8/9/2016 10:12:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/9/2016 10:12:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/9/2016 10:12:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/9/2016 10:12:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/9/2016 10:12:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/9/2016 10:12:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/9/2016 10:12:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1