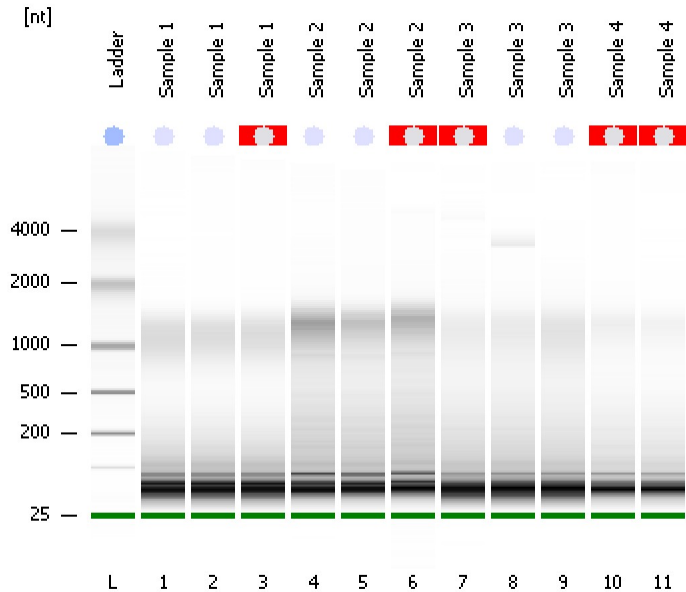


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
Modified: 4/1/2015 9:37:58 AM

Electrophoresis File Run Summary



Instrument Information:

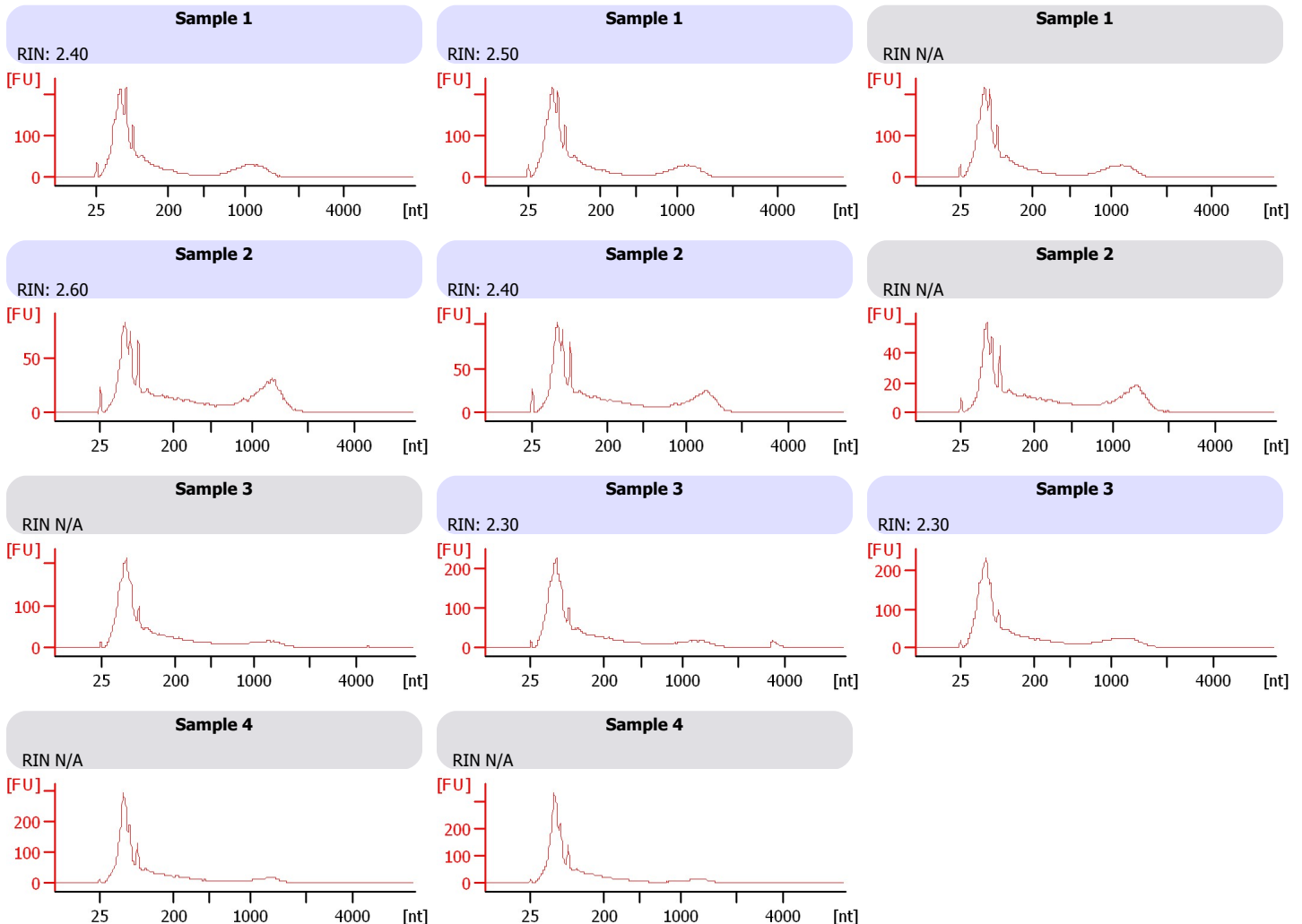
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
 Modified: 4/1/2015 9:37:58 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 2.40	
Sample 1		✓	RIN: 2.50	
Sample 1		✓	RIN N/A	
Sample 2		✓	RIN: 2.60	
Sample 2		✓	RIN: 2.40	
Sample 2		✓	RIN N/A	
Sample 3		✓	RIN N/A	
Sample 3		✓	RIN: 2.30	
Sample 3		✓	RIN: 2.30	
Sample 4		✓	RIN N/A	
Sample 4		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
Modified: 4/1/2015 9:37:58 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/ 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] : 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

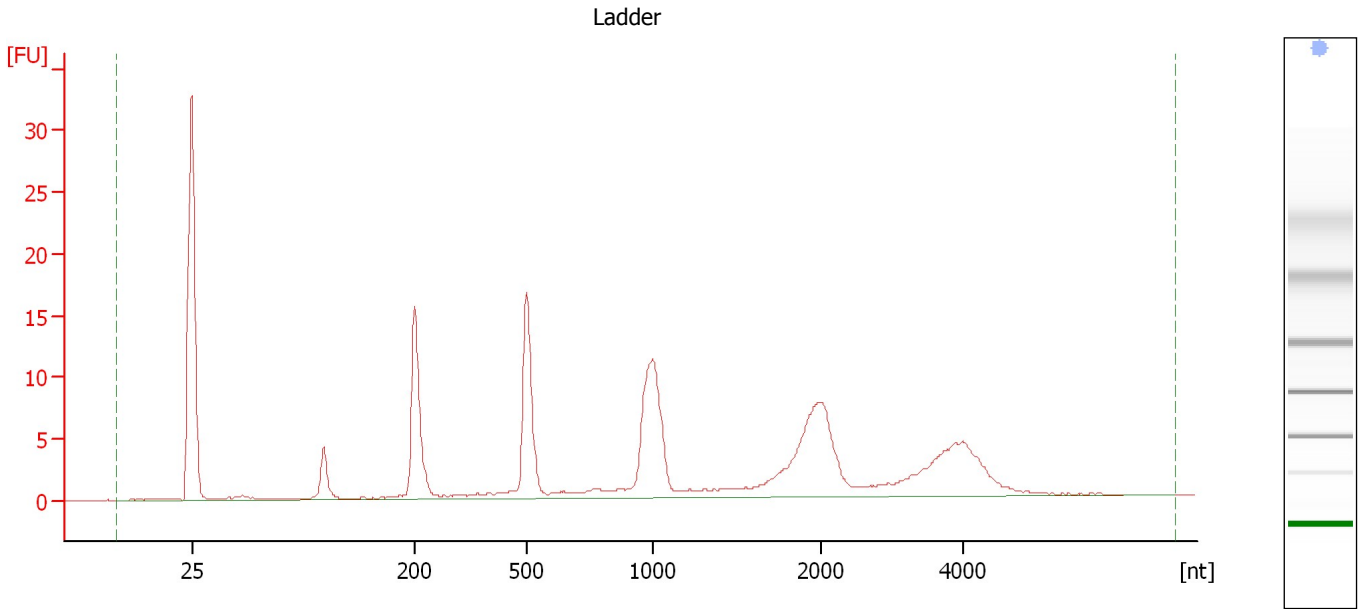
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
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Electropherogram Summary



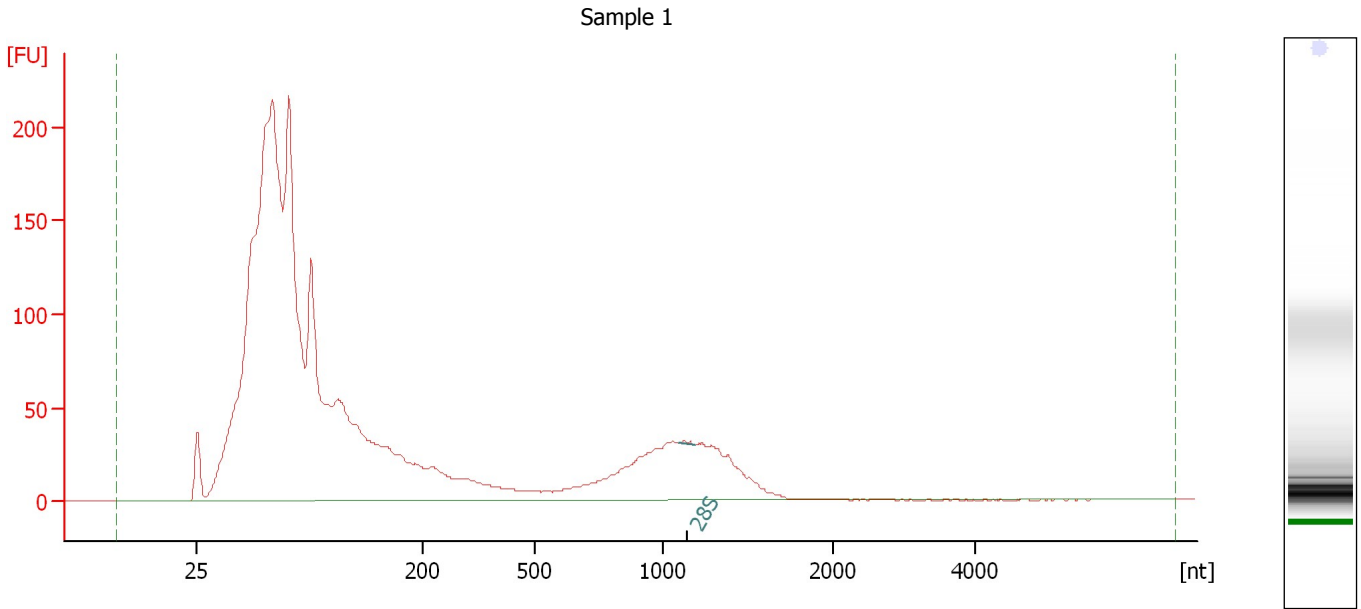
Overall Results for Ladder

RNA Area:	152.0	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	3,207.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	21,097 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

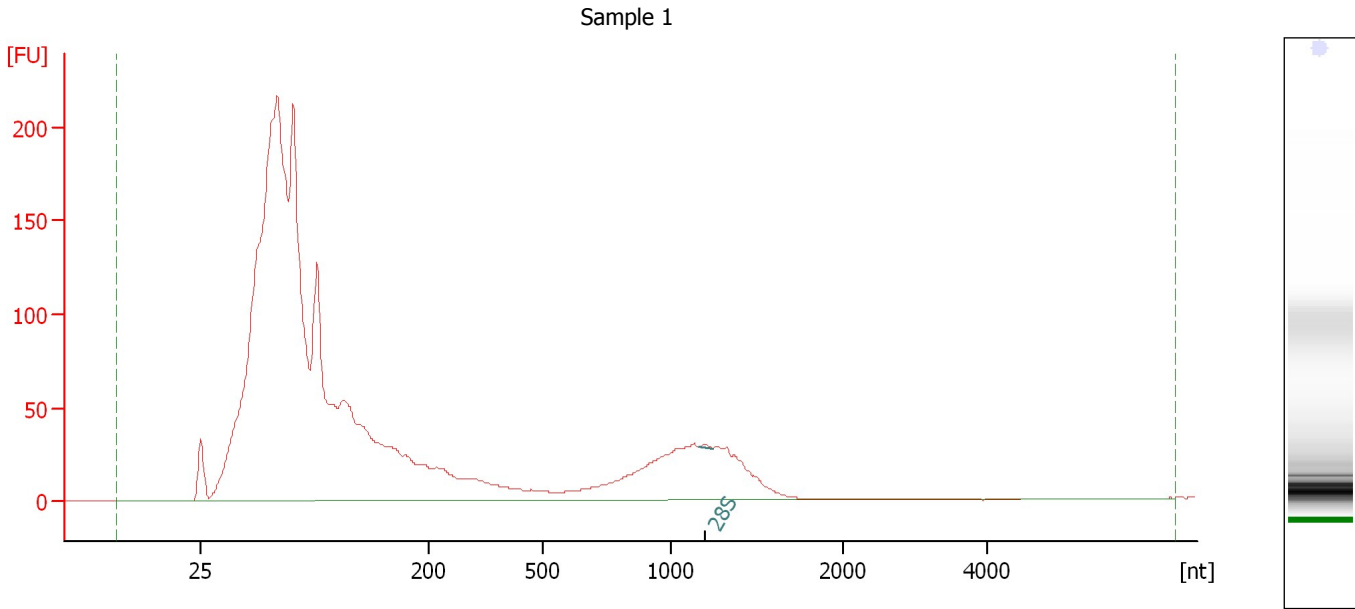
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,095	1,189	1.2	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 1

RNA Area:	3,135.0	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	20,620 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

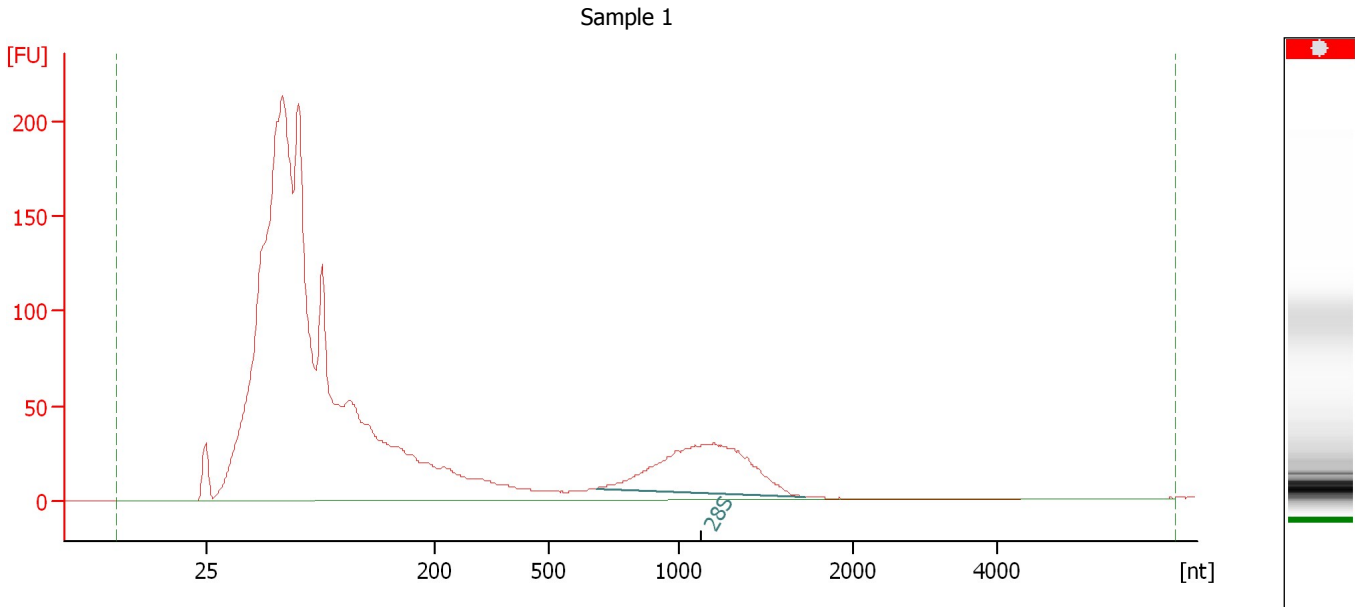
Fragment table for sample 2 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,164	1,245	1.3	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
Modified: 4/1/2015 9:37:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 1

RNA Area:	3,092.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	20,340 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

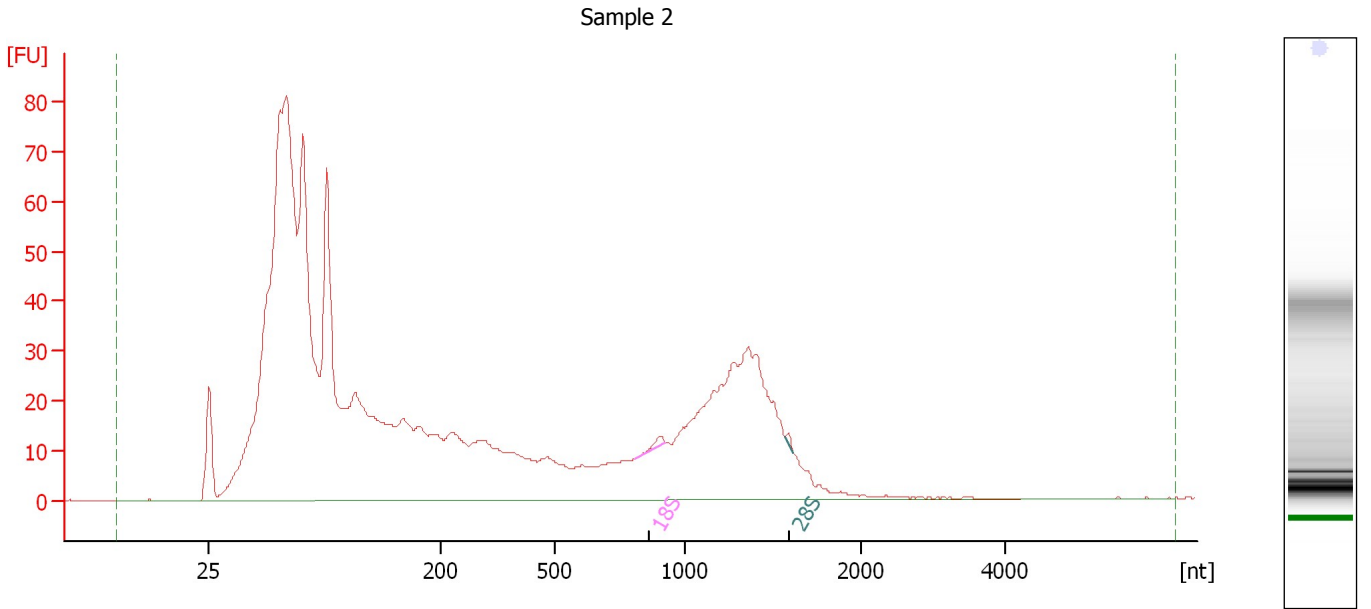
Fragment table for sample 3 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	679	1,725	277.4	9.0

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 2

RNA Area:	1,475.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	9,704 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 2.60

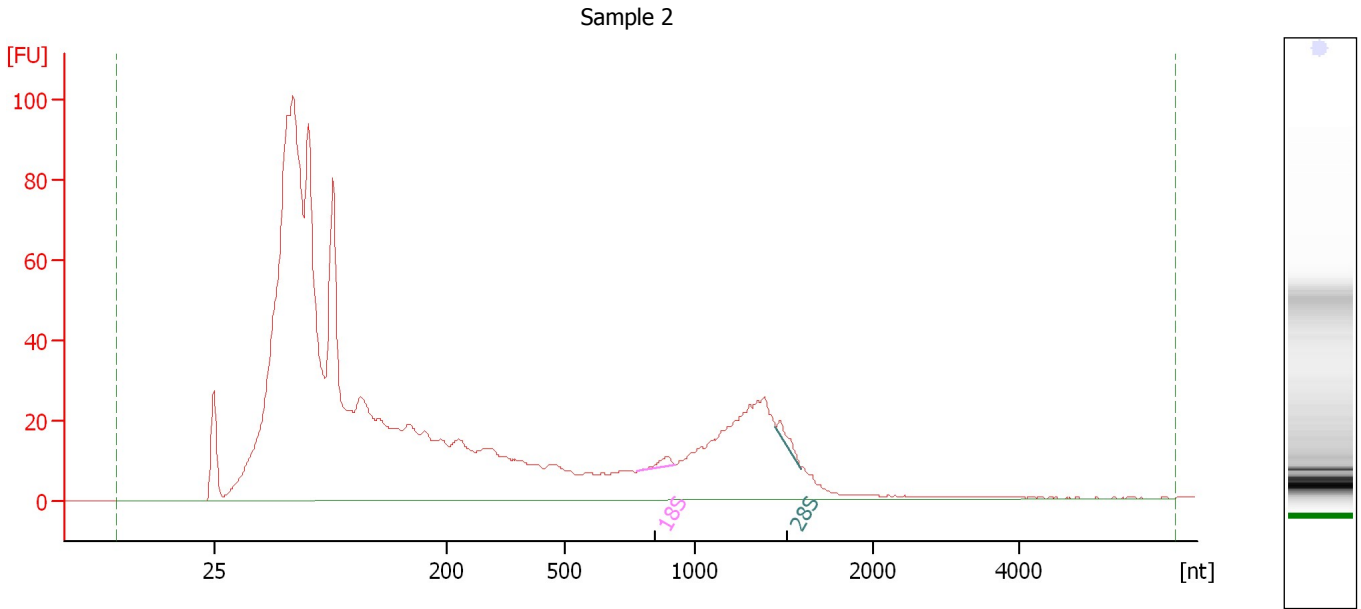
Fragment table for sample 4 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	803	922	2.2	0.1
28S	1,568	1,617	0.9	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
Modified: 4/1/2015 9:37:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 2

RNA Area:	1,624.1	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	10,683 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 2.40

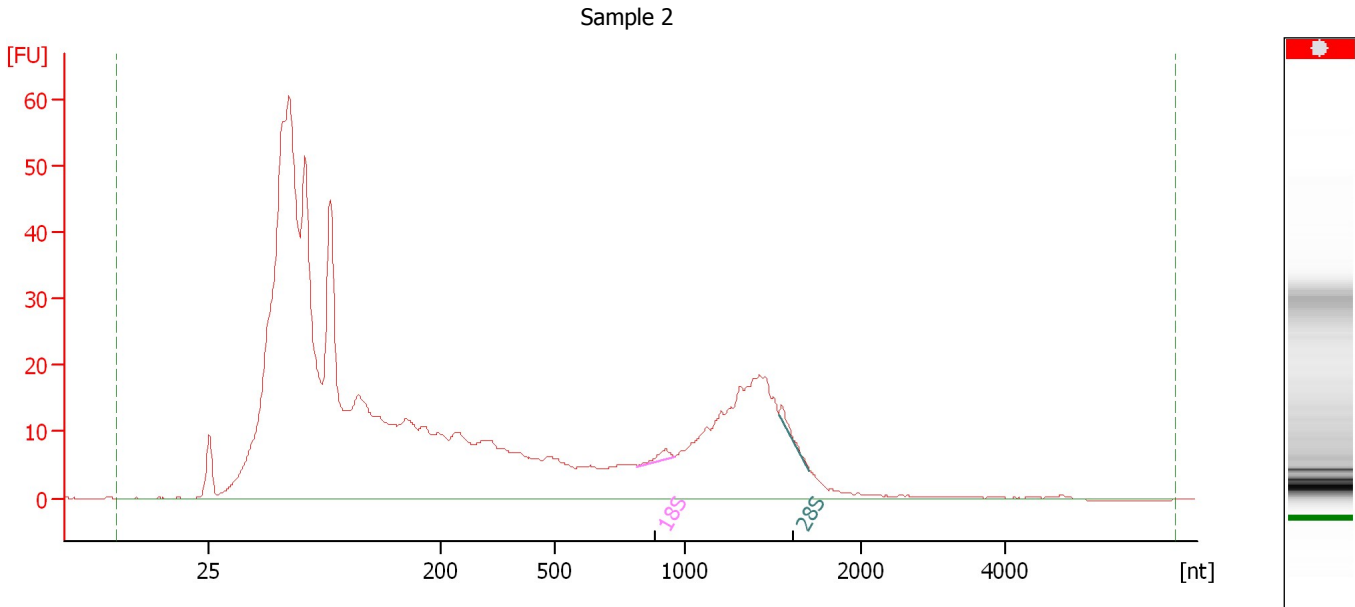
Fragment table for sample 5 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	778	920	3.9	0.2
28S	1,449	1,595	4.9	0.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 2

RNA Area:	1,041.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6,852 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN N/A

Fragment table for sample 6 : Sample 2

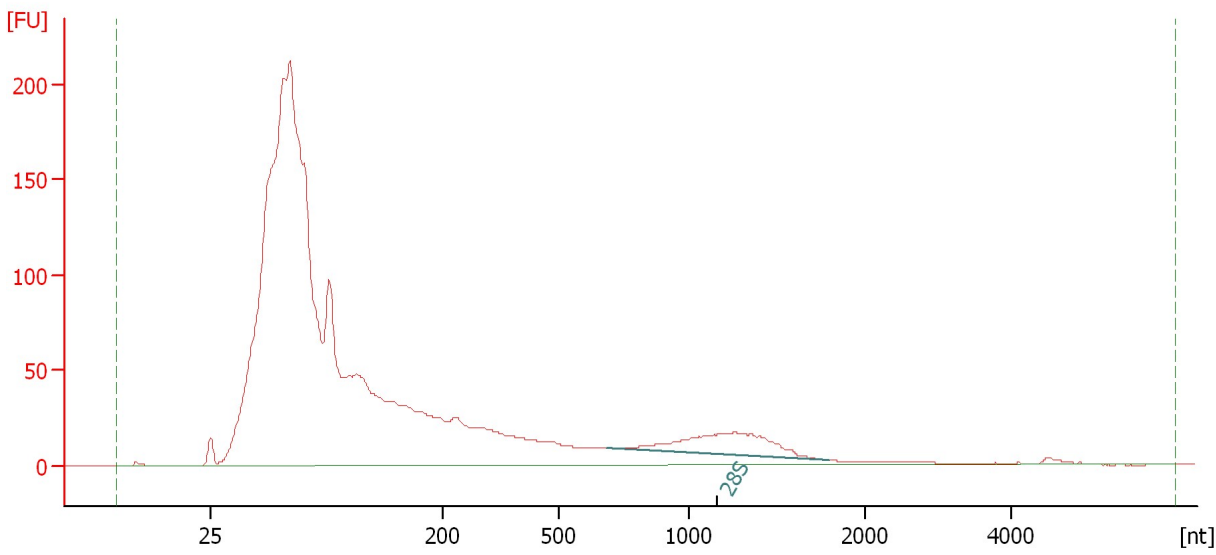
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	815	959	2.5	0.2
28S	1,532	1,709	2.1	0.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
Modified: 4/1/2015 9:37:58 AM

Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 7 : Sample 3

RNA Area:	3,127.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	20,568 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

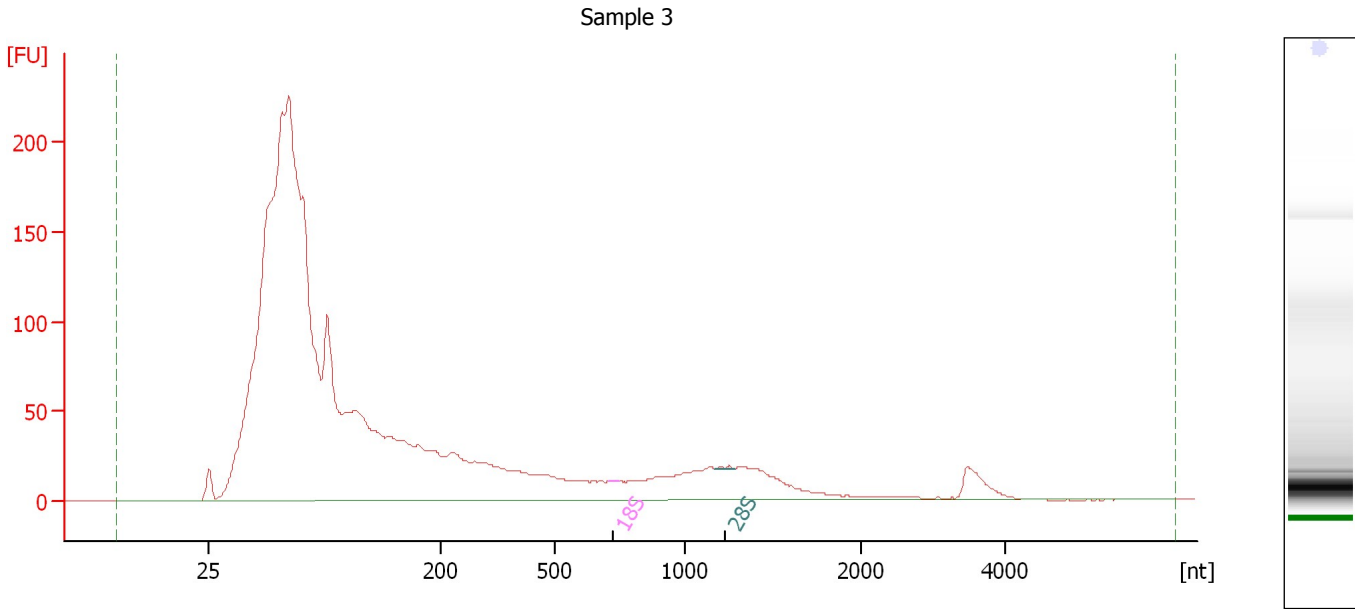
Fragment table for sample 7 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	683	1,792	117.2	3.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 3

RNA Area:	3,381.9	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	22,244 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	14.1	Result Flagging Label:	RIN: 2.30

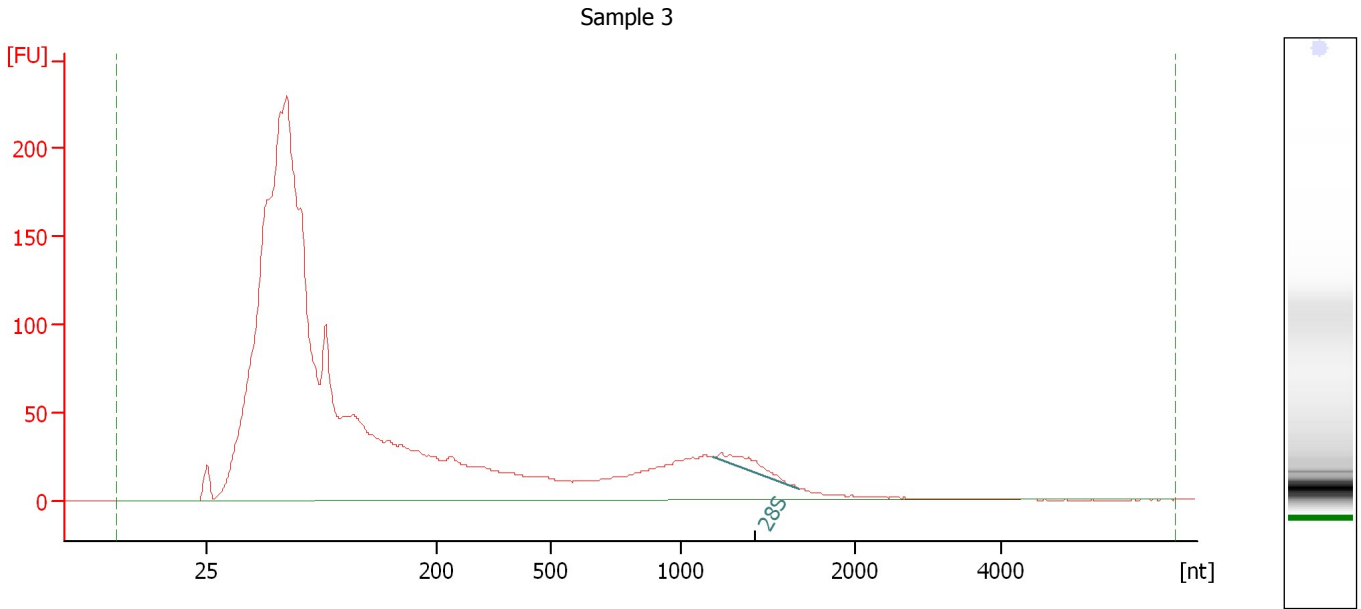
Fragment table for sample 8 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	705	746	0.1	0.0
28S	1,171	1,281	1.9	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
Modified: 4/1/2015 9:37:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 3

RNA Area:	3,445.5	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	22,663 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Fragment table for sample 9 : Sample 3

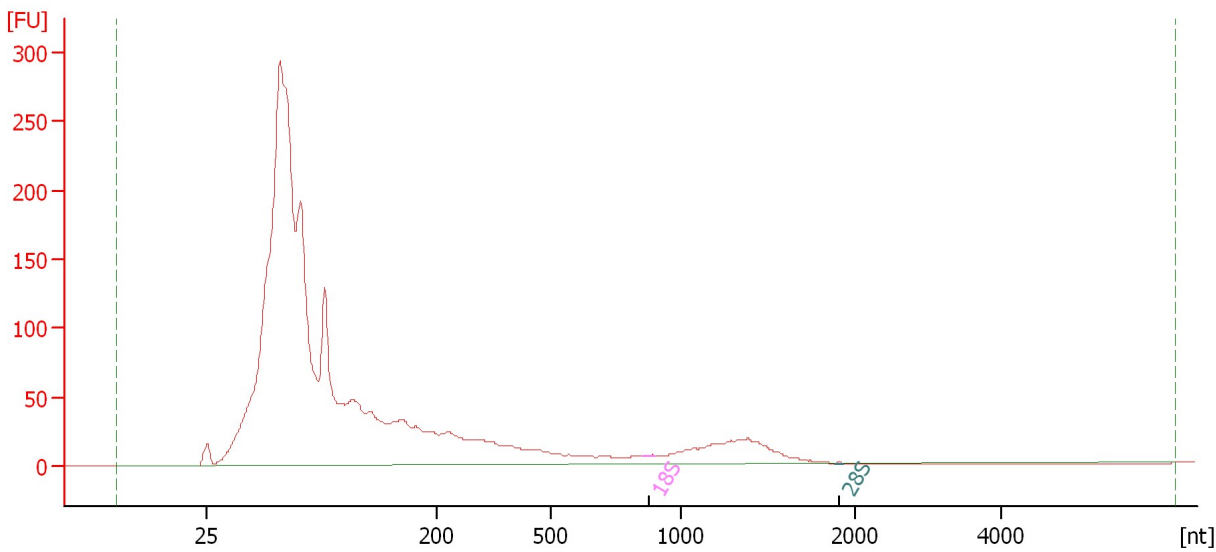
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,177	1,674	29.4	0.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
 Modified: 4/1/2015 9:37:58 AM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 10 : Sample 4

RNA Area:	3,143.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	20,676 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN N/A

Fragment table for sample 10 : Sample 4

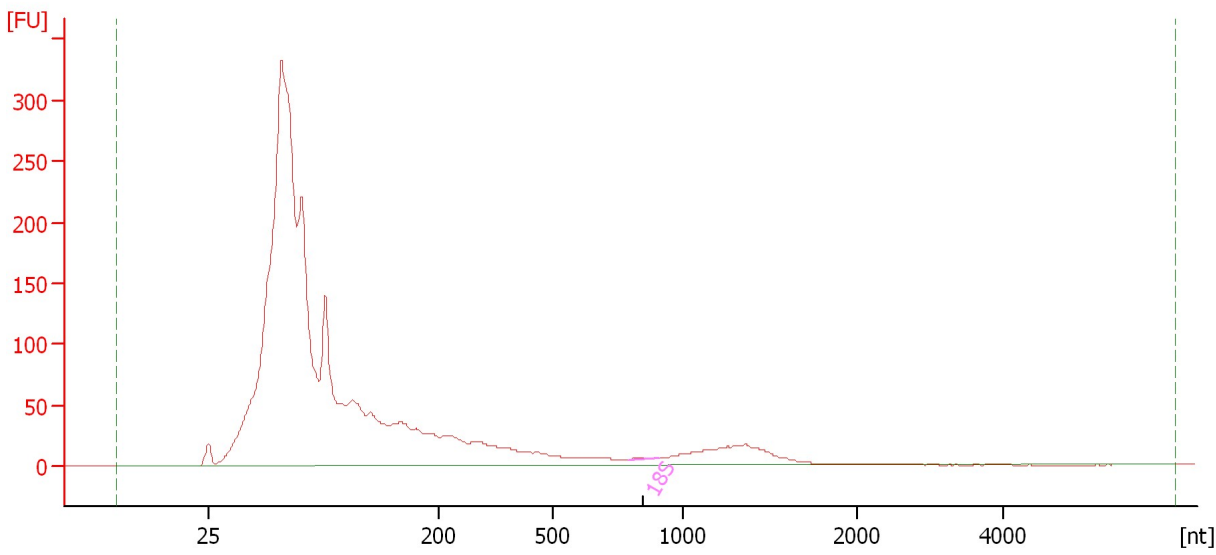
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	855	900	0.3	0.0
28S	1,883	1,932	0.1	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad


Created: 4/1/2015 9:14:17 AM
Modified: 4/1/2015 9:37:58 AM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 11 : Sample 4

RNA Area:	3,433.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	22,586 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

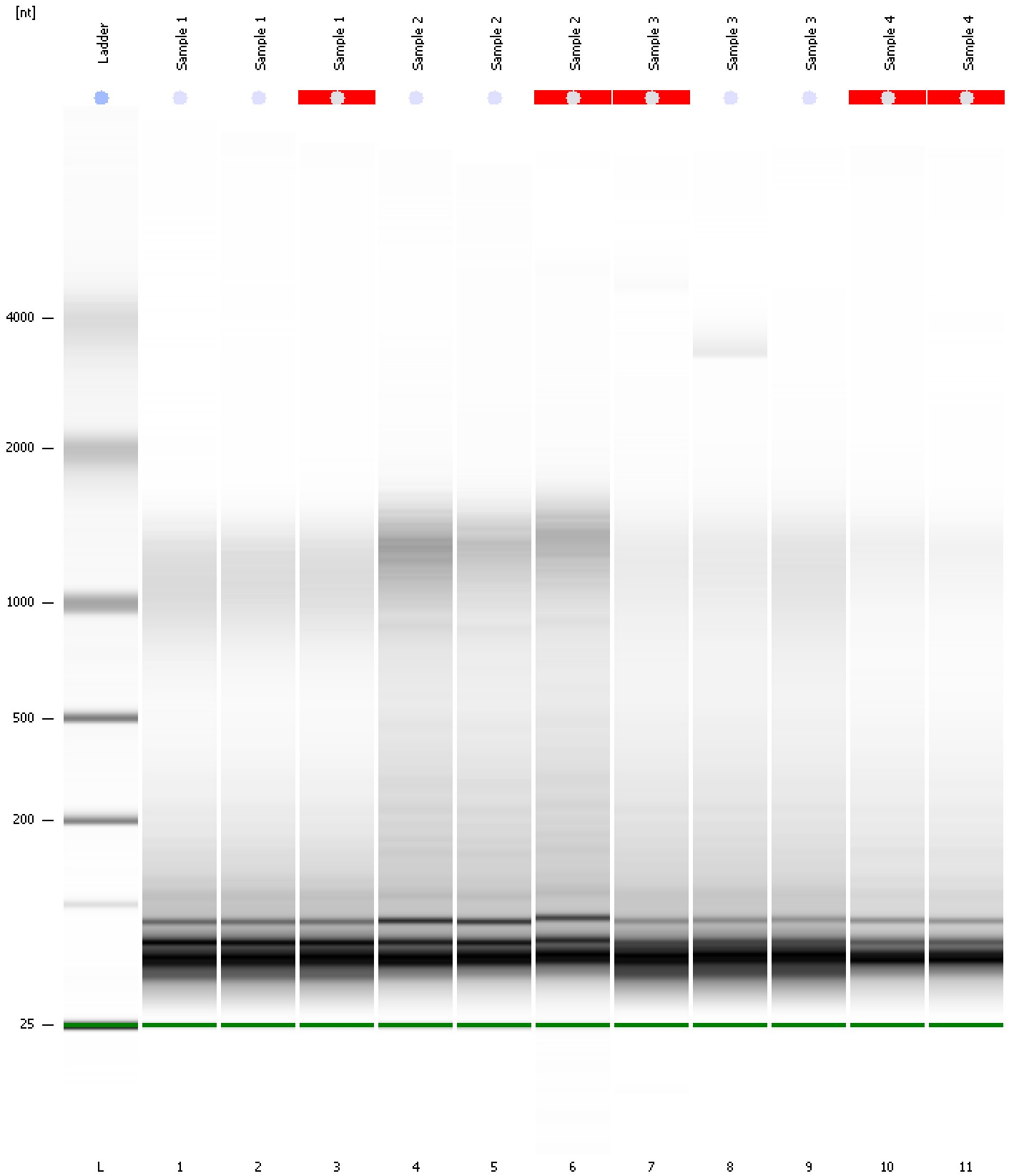
Fragment table for sample 11 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	794	905	1.3	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad

Created: 4/1/2015 9:14:17 AM
Modified: 4/1/2015 9:37:58 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico Created: 4/1/2015 9:14:17 AM
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad Modified: 4/1/2015 9:37:58 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		4/1/2015 9:37:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-01\2015-04-01_001.xad)		Instrument	Run		4/1/2015 9:14:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/1/2015 9:14:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/1/2015 9:14:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/1/2015 9:14:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/1/2015 9:14:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/1/2015 9:14:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/1/2015 9:14:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1