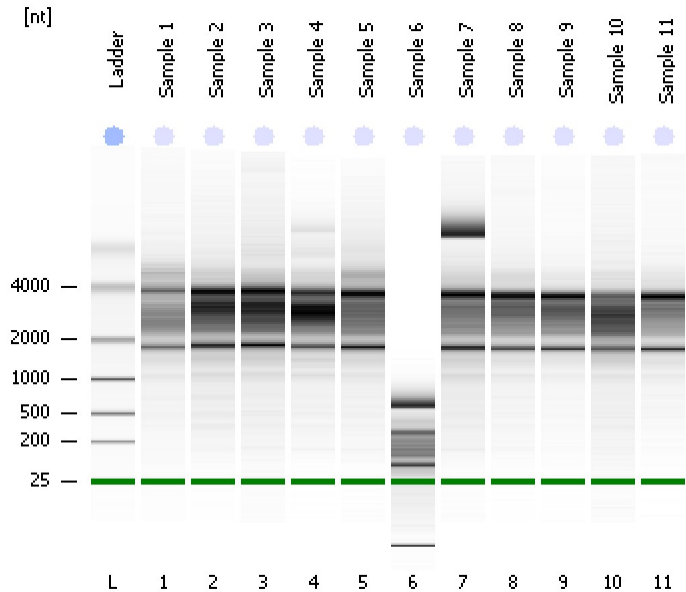


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electrophoresis File Run Summary



Instrument Information:

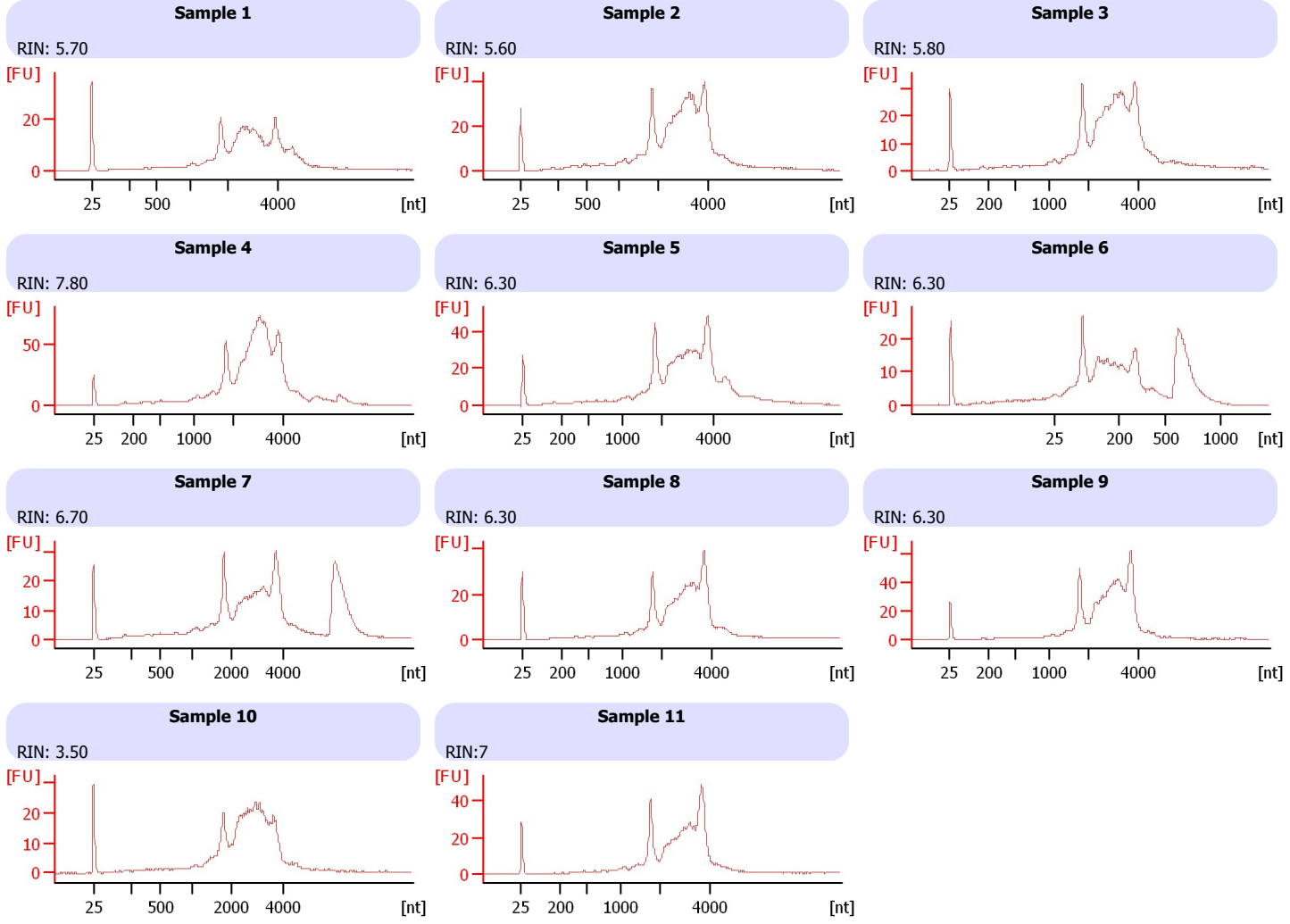
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\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\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 5.70	
Sample 2		✓	RIN: 5.60	
Sample 3		✓	RIN: 5.80	
Sample 4		✓	RIN: 7.80	
Sample 5		✓	RIN: 6.30	
Sample 6		✓	RIN: 6.30	
Sample 7		✓	RIN: 6.70	
Sample 8		✓	RIN: 6.30	
Sample 9		✓	RIN: 6.30	
Sample 10		✓	RIN: 3.50	
Sample 11		✓	RIN:7	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

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

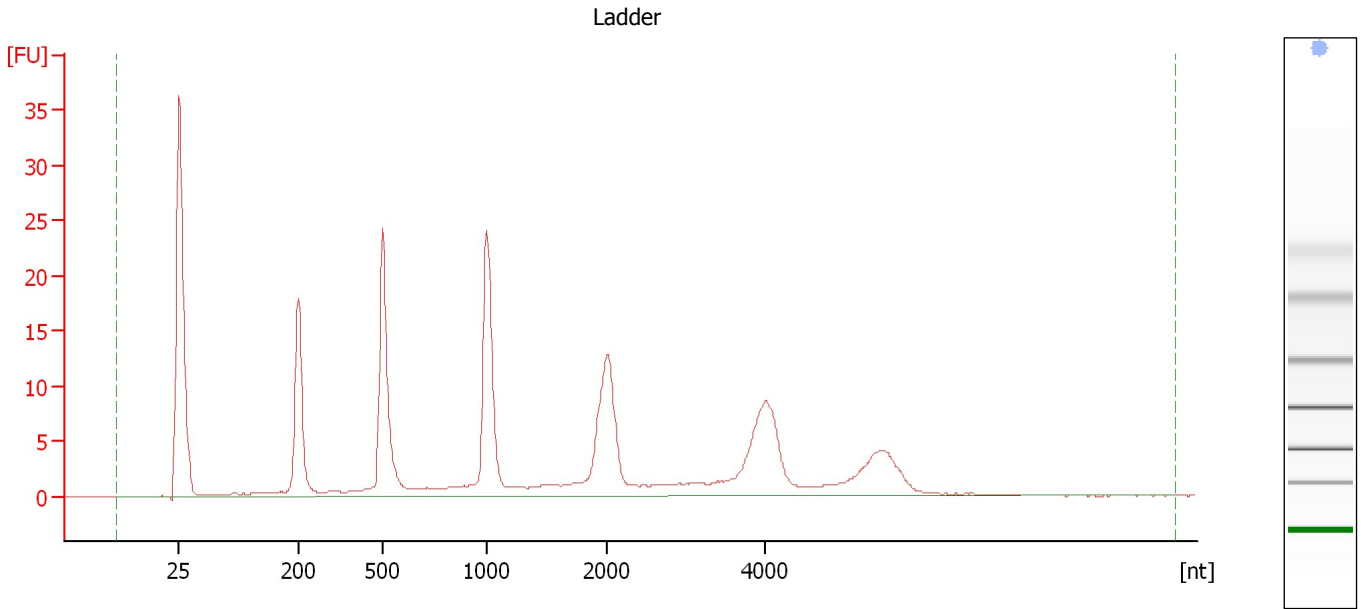
Ladder

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\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary



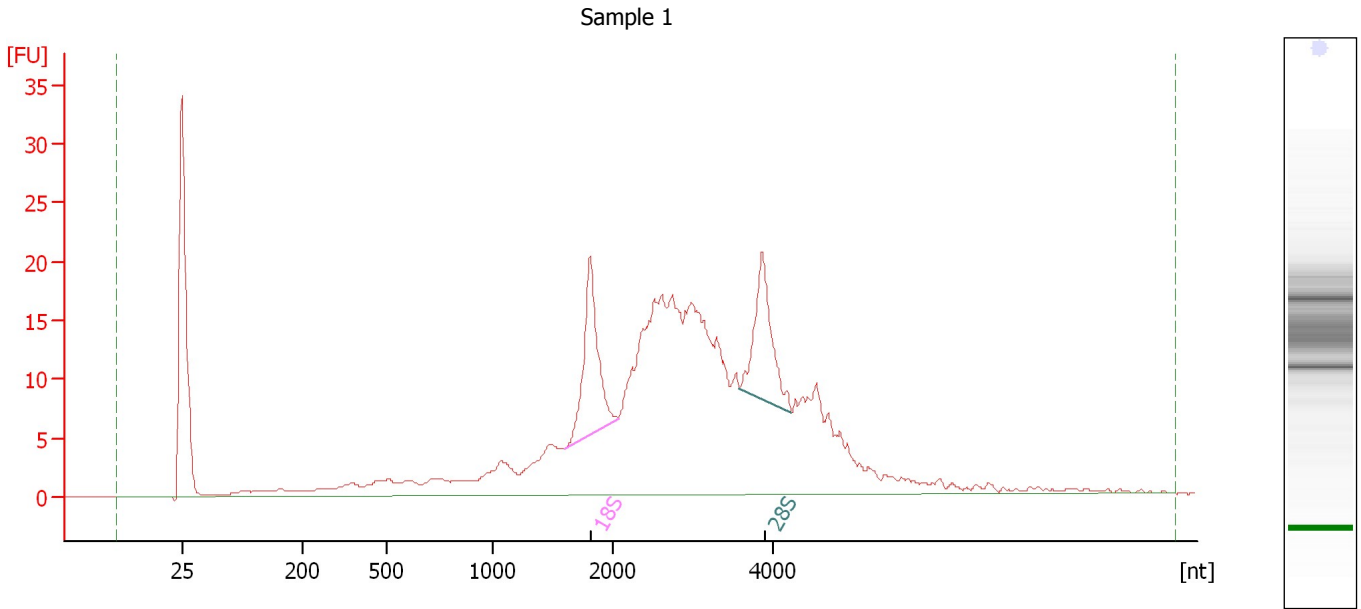
Overall Results for Ladder

RNA Area:	201.9	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\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area: 399.0 RNA Integrity Number (RIN): 5.7 (B.02.08)
RNA Concentration: 1,977 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 5.70

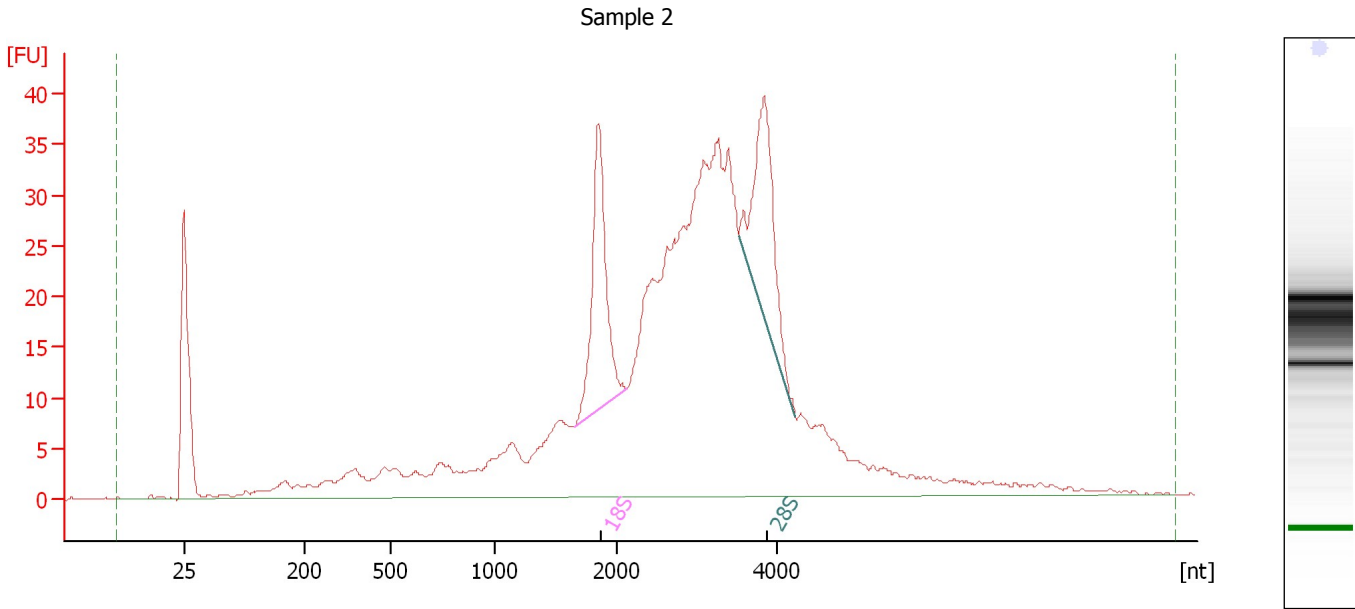
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	2,057	26.9	6.7
28S	3,588	4,232	22.5	5.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
 Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	712.0	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	3,527 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 5.60

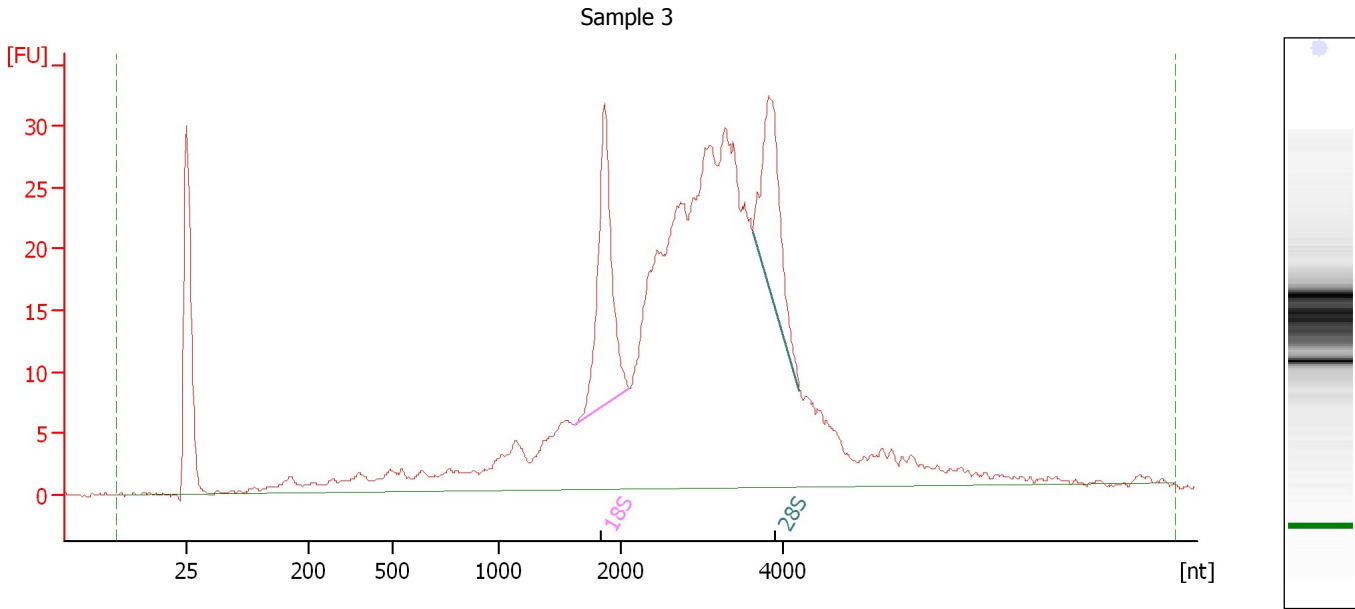
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	2,113	48.9	6.9
28S	3,517	4,225	45.8	6.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area: 577.5 RNA Integrity Number (RIN): 5.8 (B.02.08)
RNA Concentration: 2,861 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 5.80

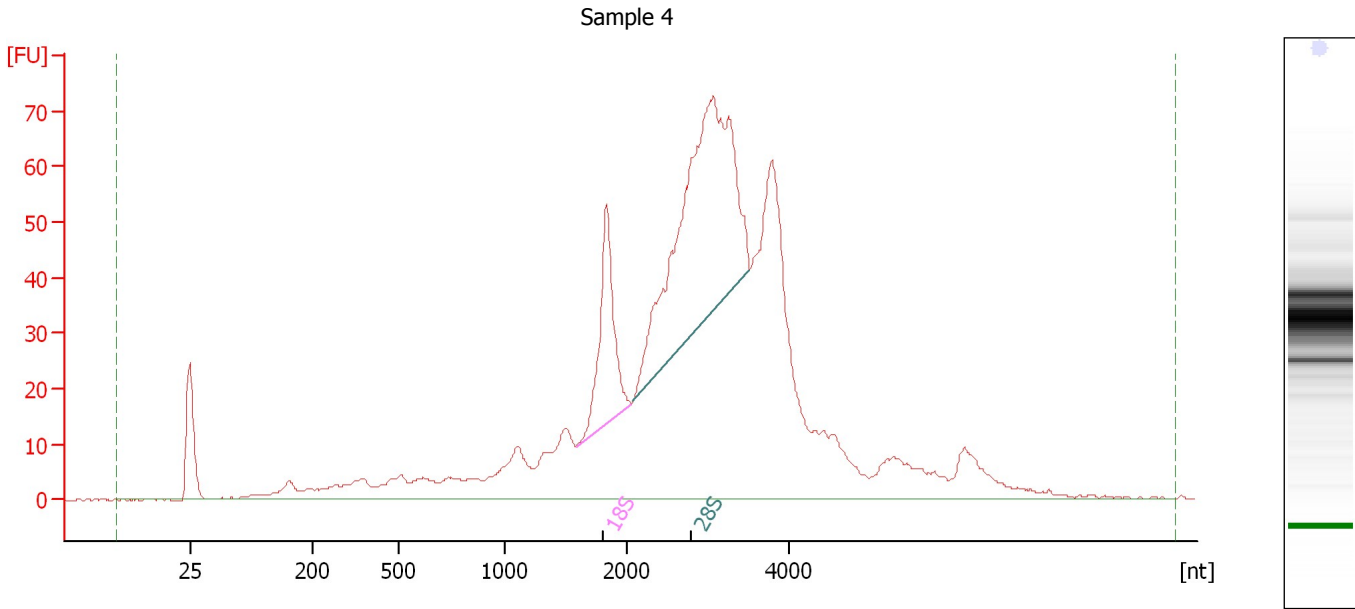
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	2,102	42.9	7.4
28S	3,633	4,218	30.9	5.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	1,247.1	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	6,177 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.6	Result Flagging Label:	RIN: 7.80

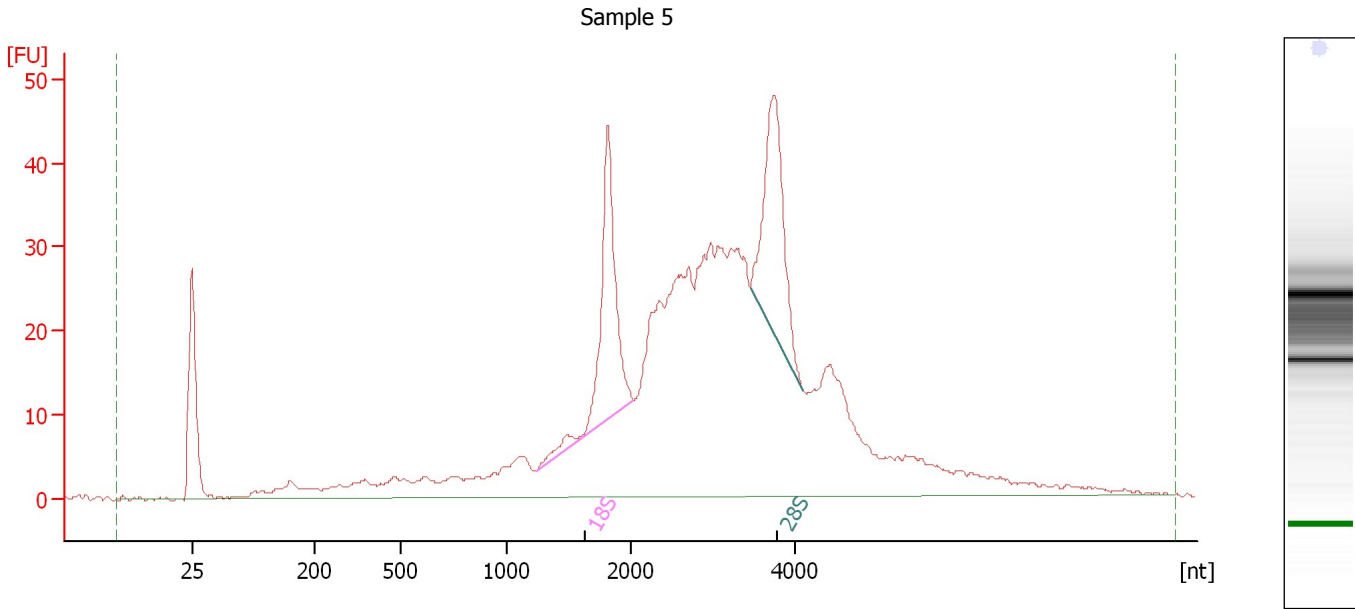
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	2,040	68.4	5.5
28S	2,066	3,507	246.9	19.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	791.2	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	3,919 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 6.30

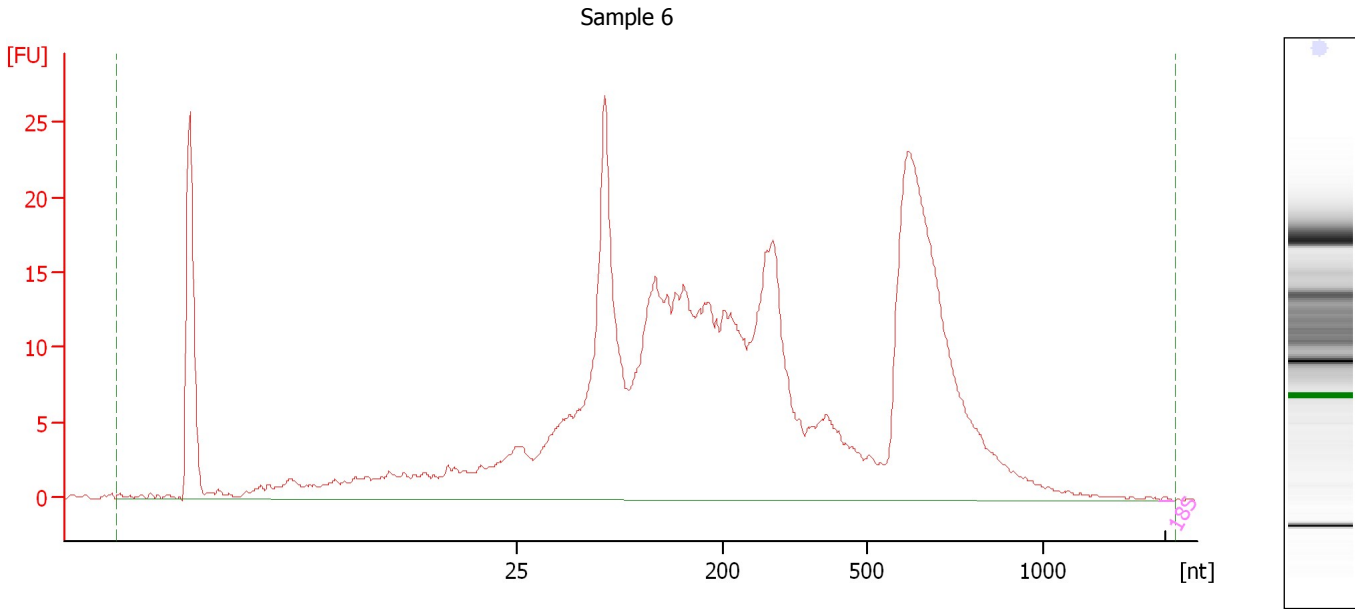
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,226	2,016	63.7	8.0
28S	3,464	4,109	59.7	7.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	526.7	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	2,609 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.30

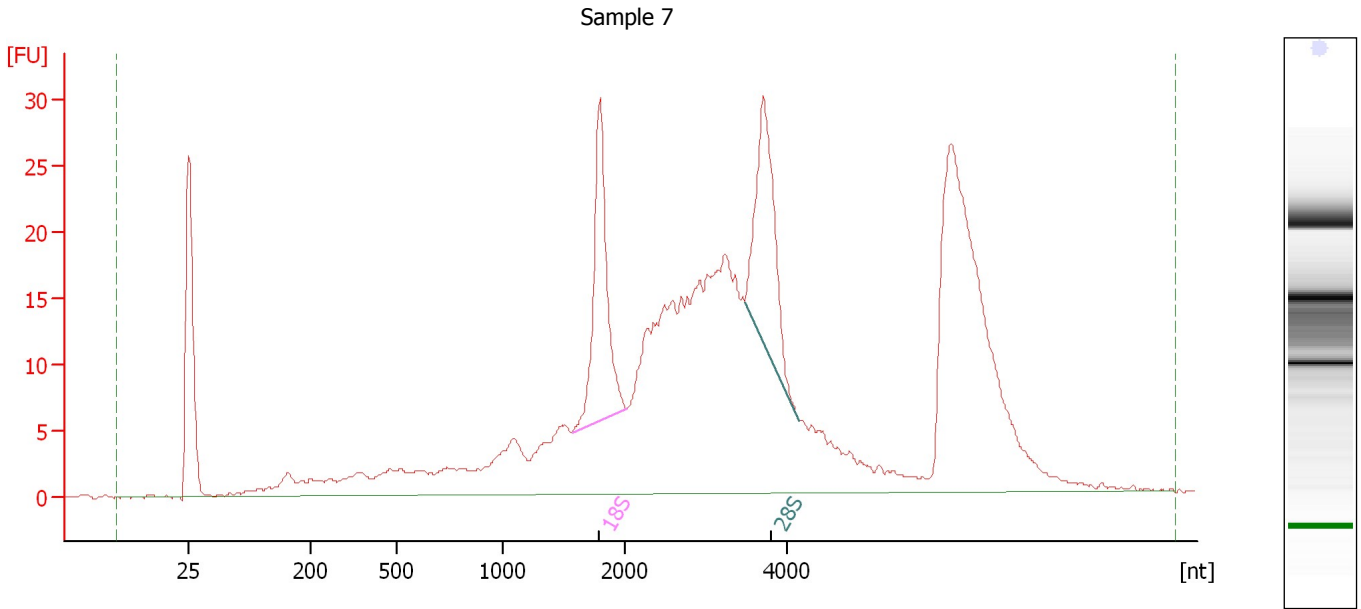
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,633	0.1	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	554.9	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	2,748 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 6.70

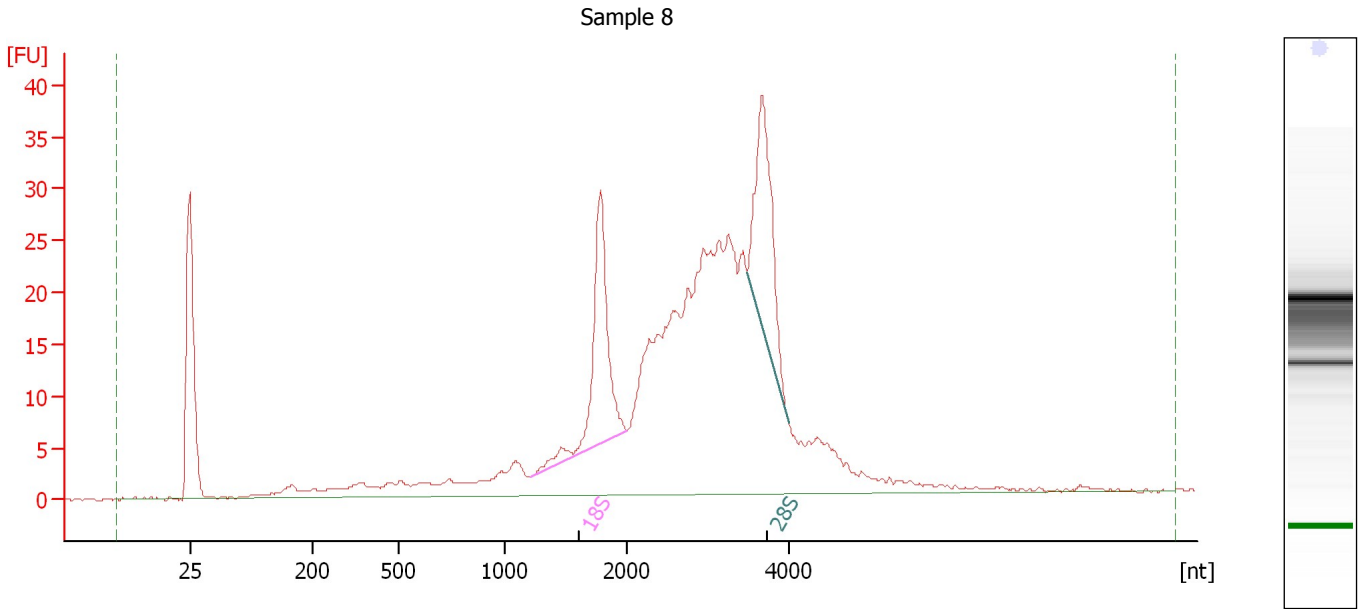
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,565	2,012	39.4	7.1
28S	3,469	4,145	38.5	6.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	491.8	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	2,436 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 6.30

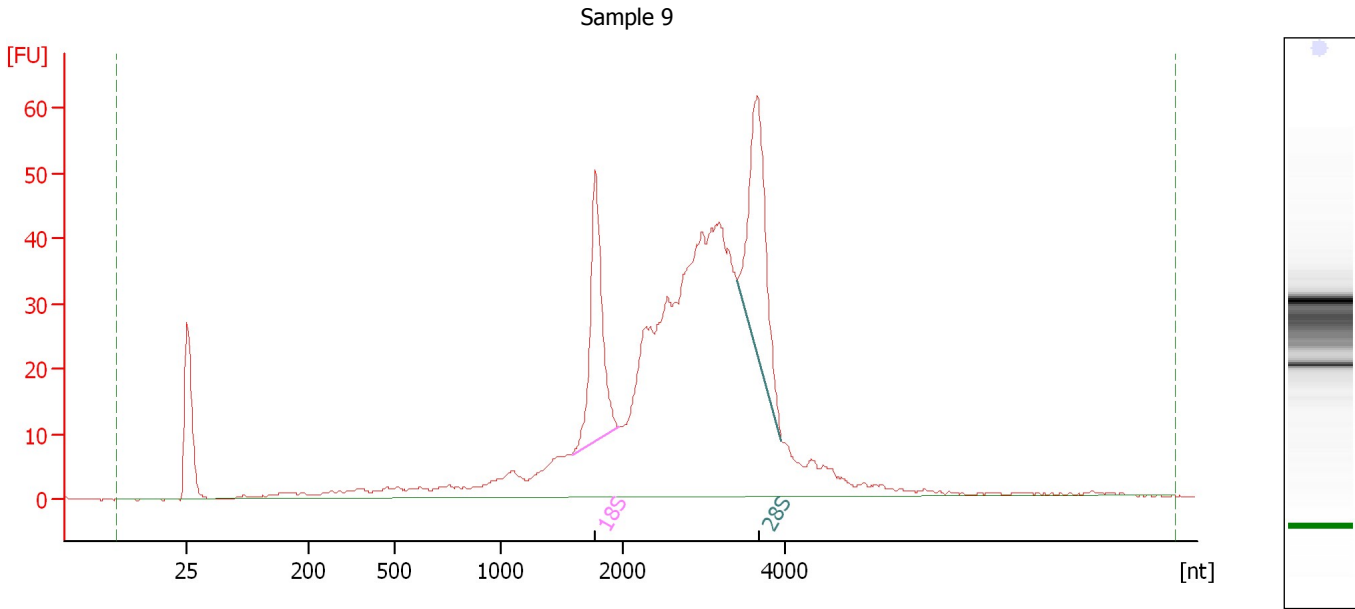
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,212	2,000	44.8	9.1
28S	3,467	3,983	41.1	8.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
 Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	763.8	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	3,783 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 6.30

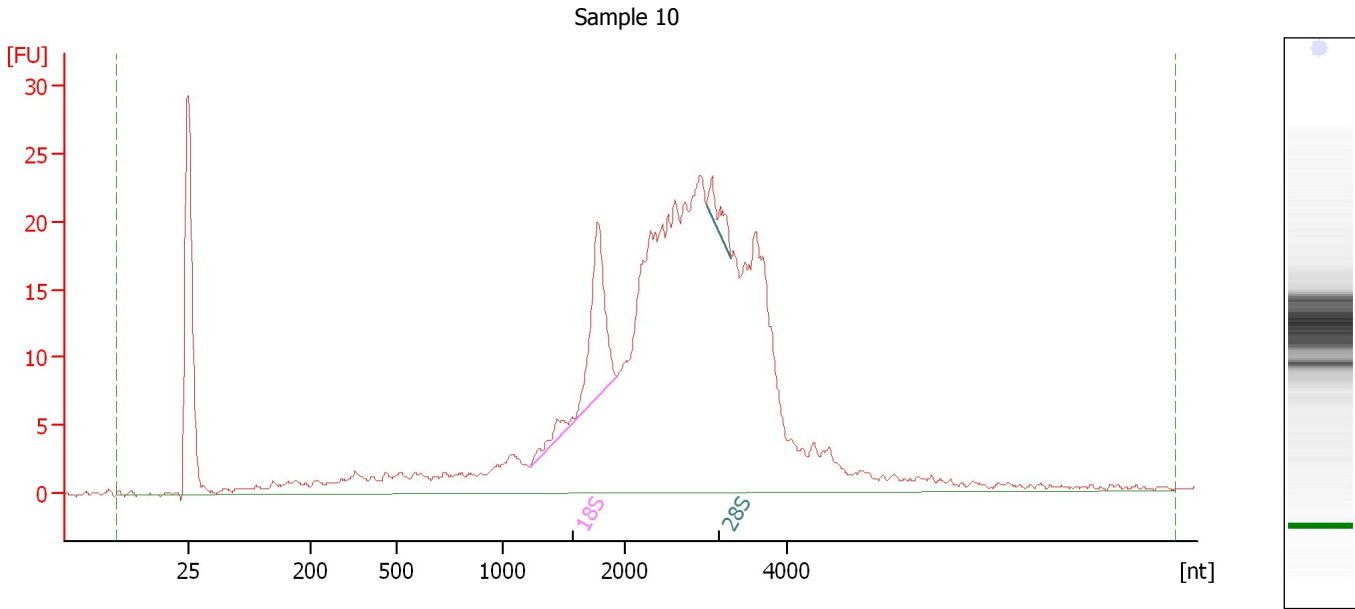
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,581	1,955	61.4	8.0
28S	3,418	3,962	70.6	9.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	443.3	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	2,196 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 3.50

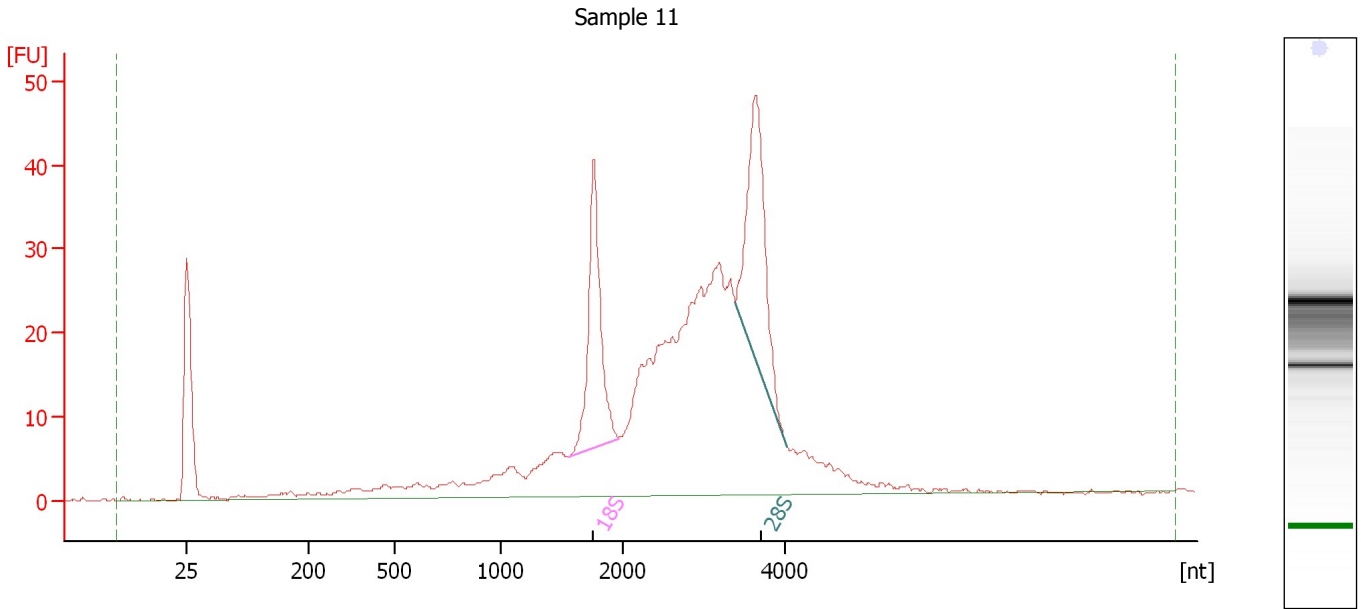
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,227	1,921	25.5	5.8
28S	3,006	3,297	3.8	0.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area: 551.4 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 2,731 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN:7

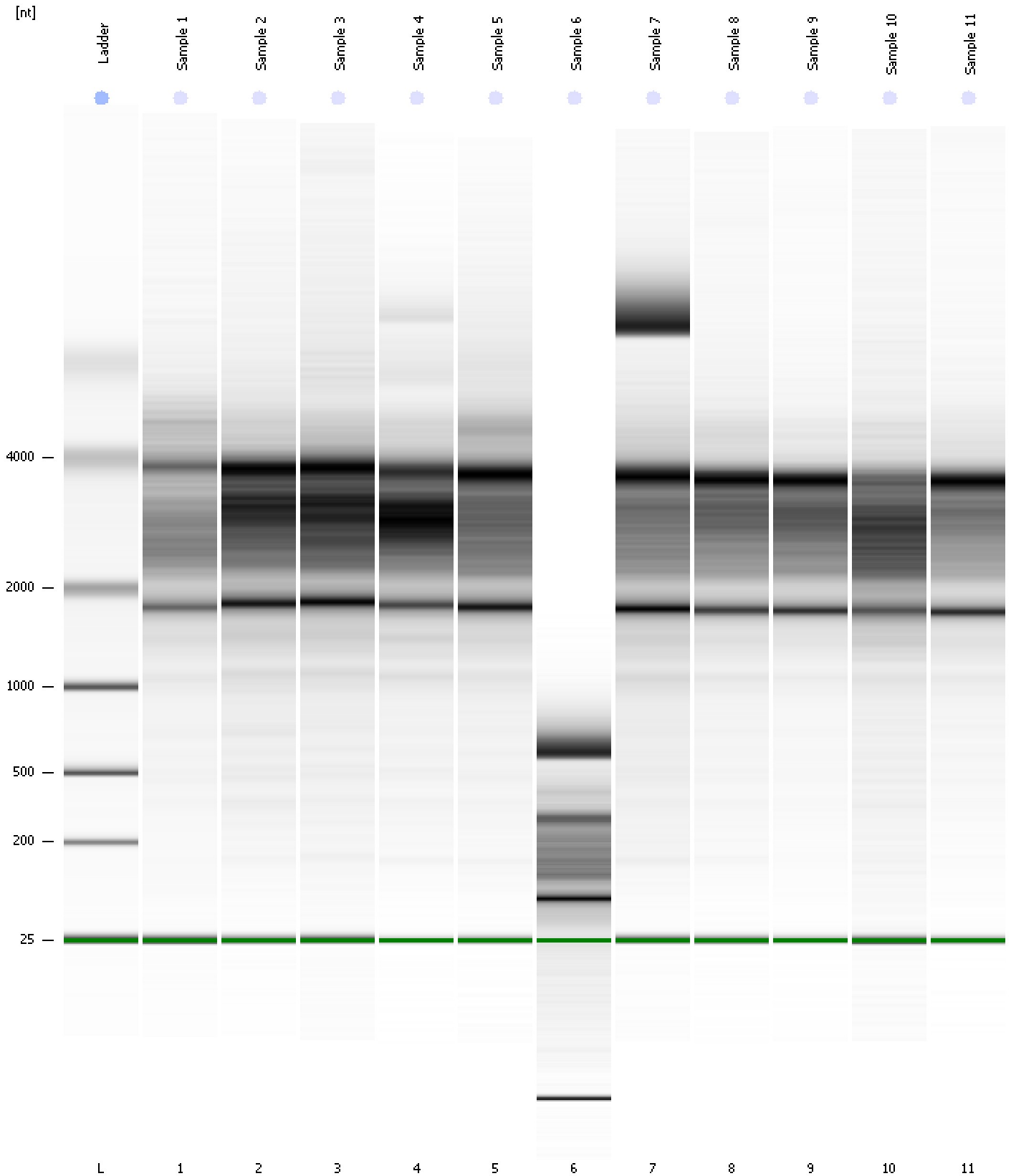
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,955	52.3	9.5
28S	3,391	4,029	60.1	10.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Gel Image

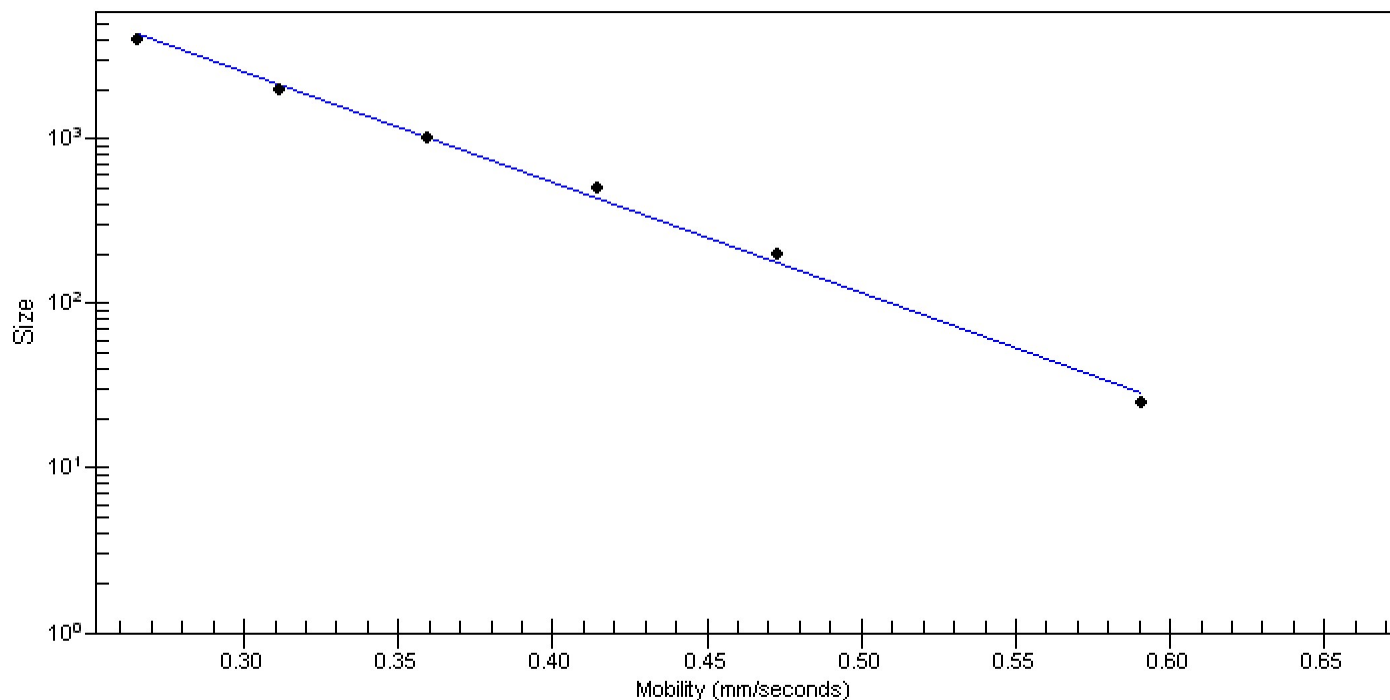


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
Modified: 6/24/2013 3:01:16 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad

Created: 6/24/2013 2:39:16 PM
 Modified: 6/24/2013 3:01:16 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		6/24/2013 3:01:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-24\2013-06-24_005.xad)		Instrument	Run		6/24/2013 2:39:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/24/2013 2:39:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/24/2013 2:39:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/24/2013 2:39:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/24/2013 2:39:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/24/2013 2:39:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/24/2013 2:39:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1