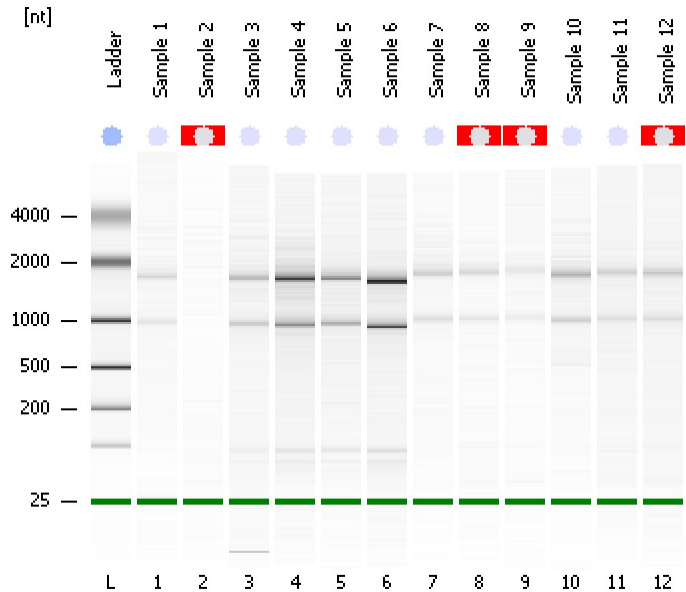


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electrophoresis File Run Summary



Instrument Information:

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

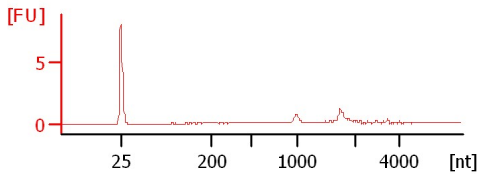
Assay Information:

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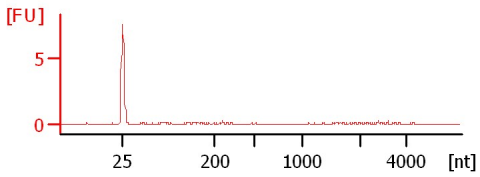
Chip Information:

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

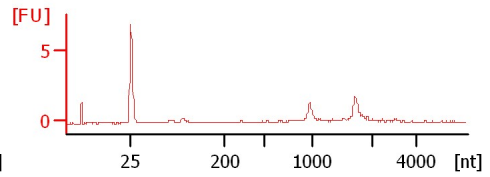
Sample 1
RIN:1



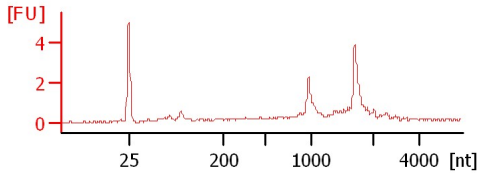
Sample 2
RIN N/A



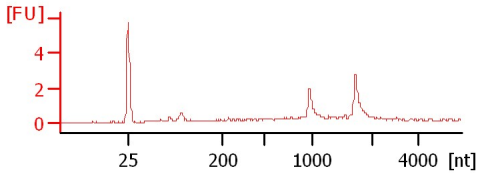
Sample 3
RIN:8



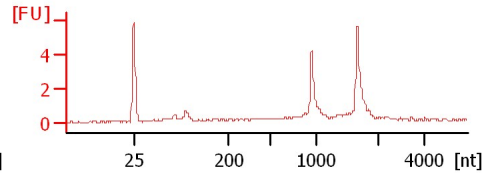
Sample 4
RIN: 8.10



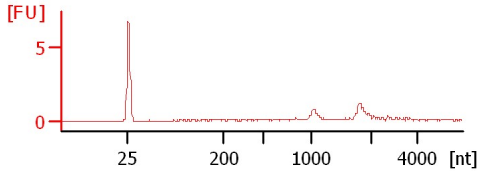
Sample 5
RIN: 5.50



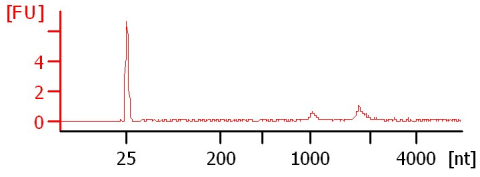
Sample 6
RIN: 8.70



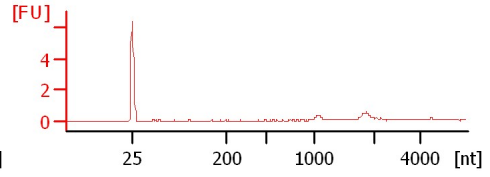
Sample 7
RIN: 1.20



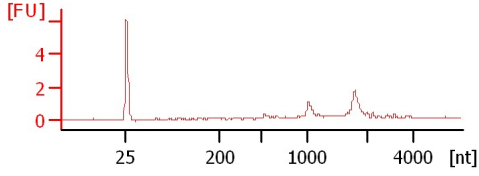
Sample 8
RIN N/A



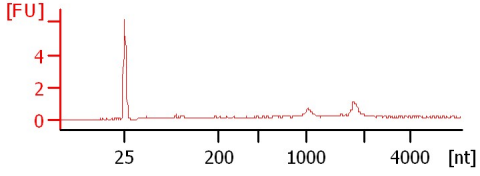
Sample 9
RIN N/A



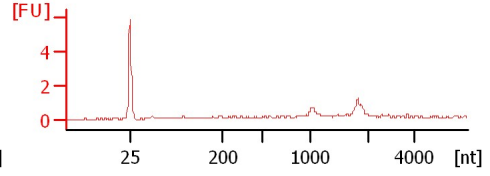
Sample 10
RIN: 7.90



Sample 11
RIN: 5.40



Sample 12
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN:1	
Sample 2		✓	RIN N/A	
Sample 3		✓	RIN:8	
Sample 4		✓	RIN: 8.10	
Sample 5		✓	RIN: 5.50	
Sample 6		✓	RIN: 8.70	
Sample 7		✓	RIN: 1.20	
Sample 8		✓	RIN N/A	
Sample 9		✓	RIN N/A	
Sample 10		✓	RIN: 7.90	
Sample 11		✓	RIN: 5.40	
Sample 12		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

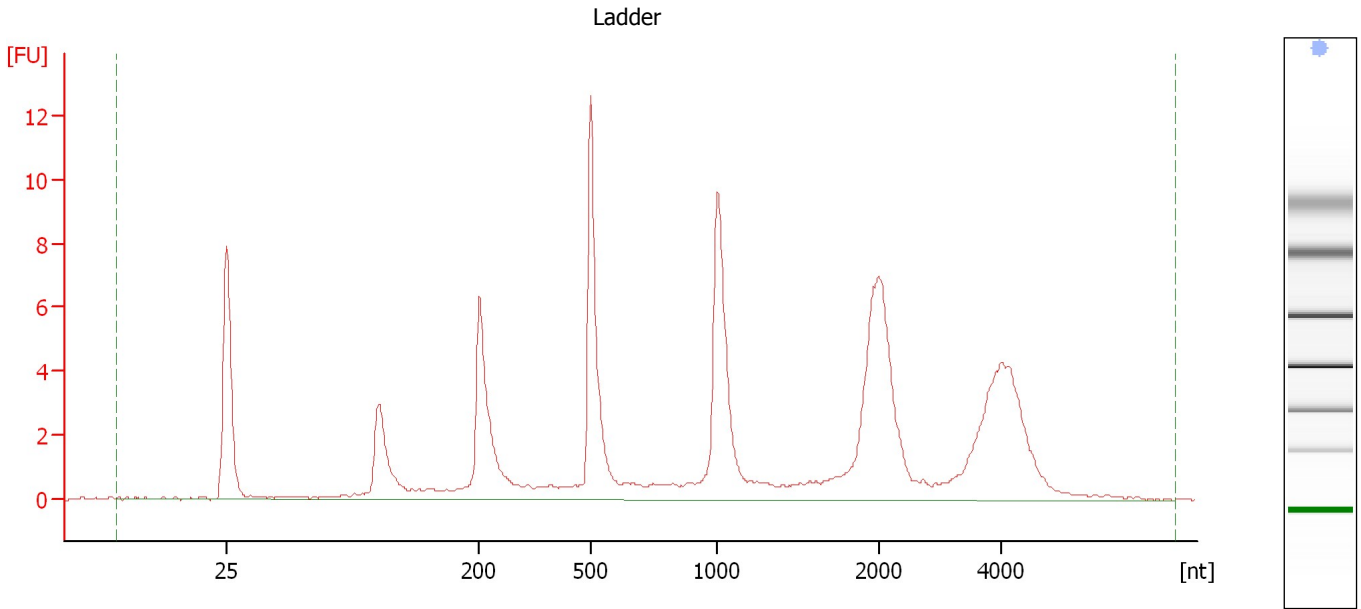
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary



Overall Results for Ladder

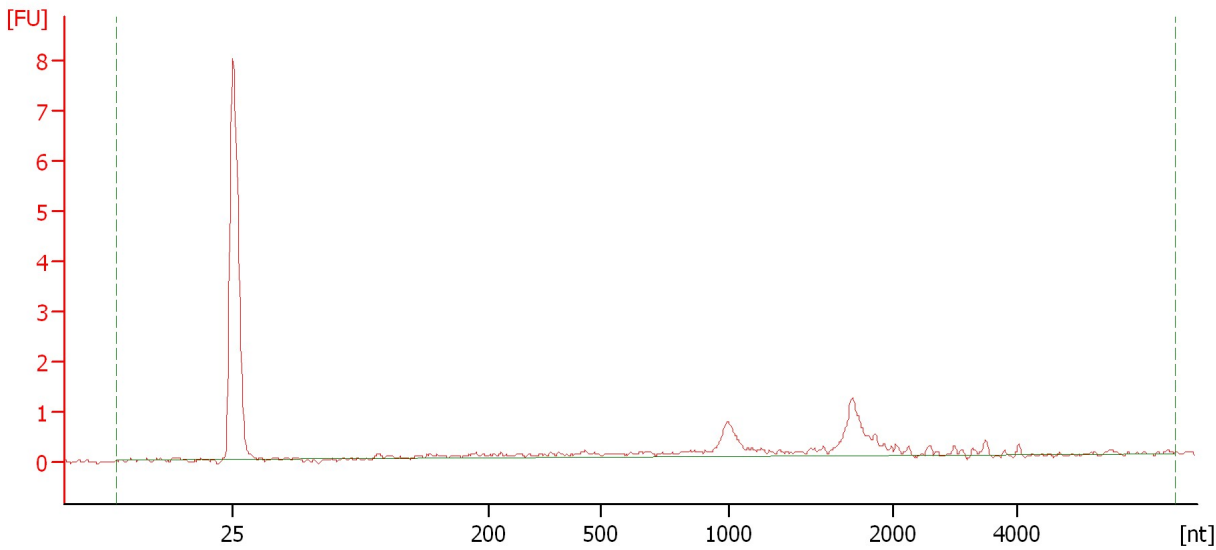
RNA Area:	104.9	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 1



Overall Results for sample 1 : Sample 1

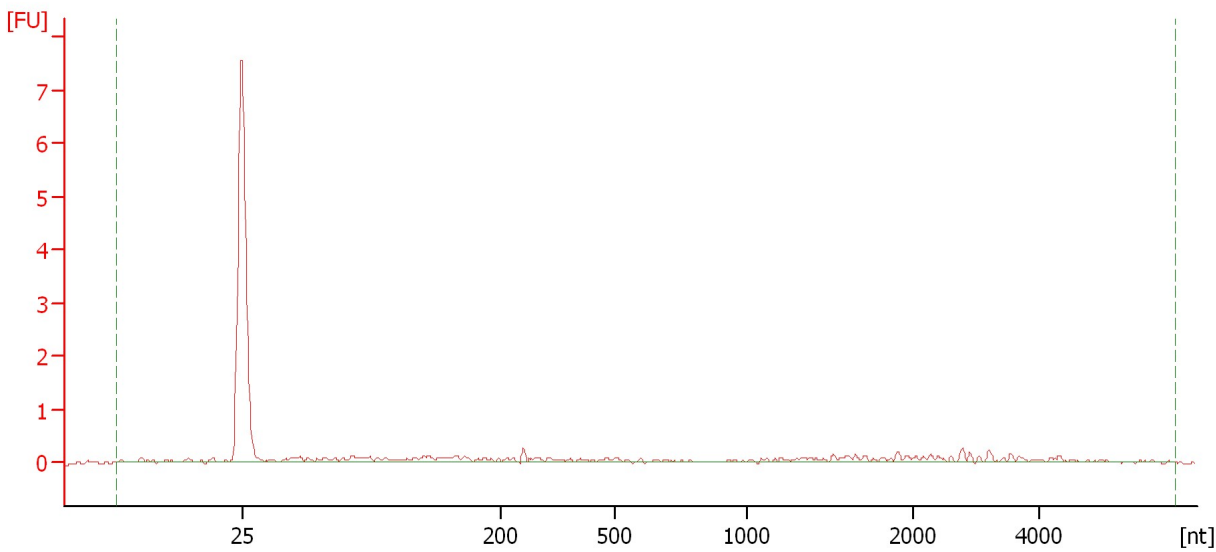
RNA Area:	8.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 2



Overall Results for sample 2 : Sample 2

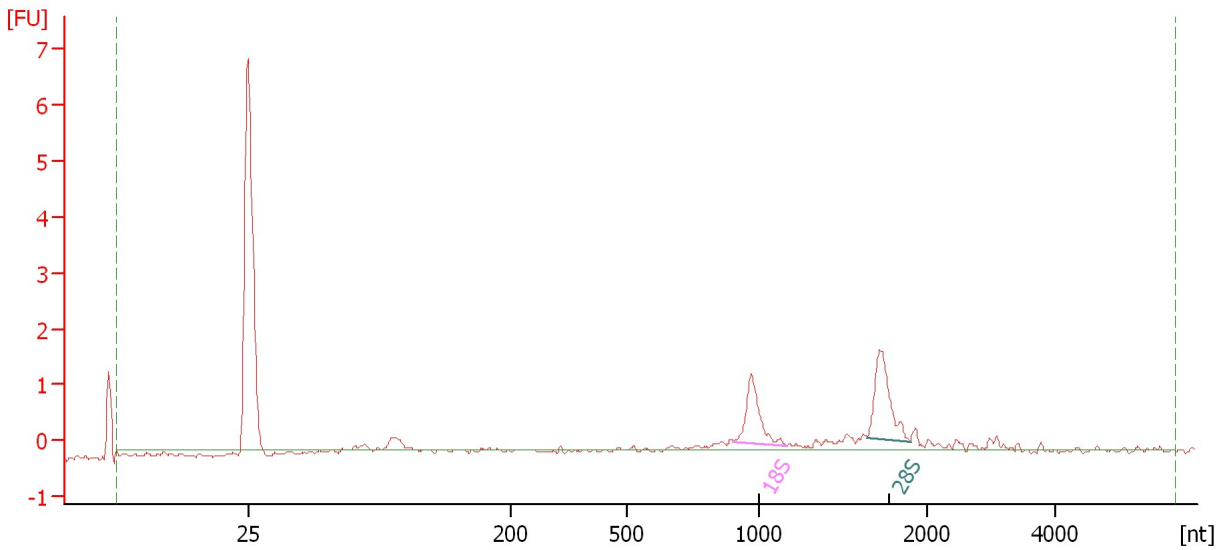
RNA Area:	4.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 3 : Sample 3

RNA Area:	8.8	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	13 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:8

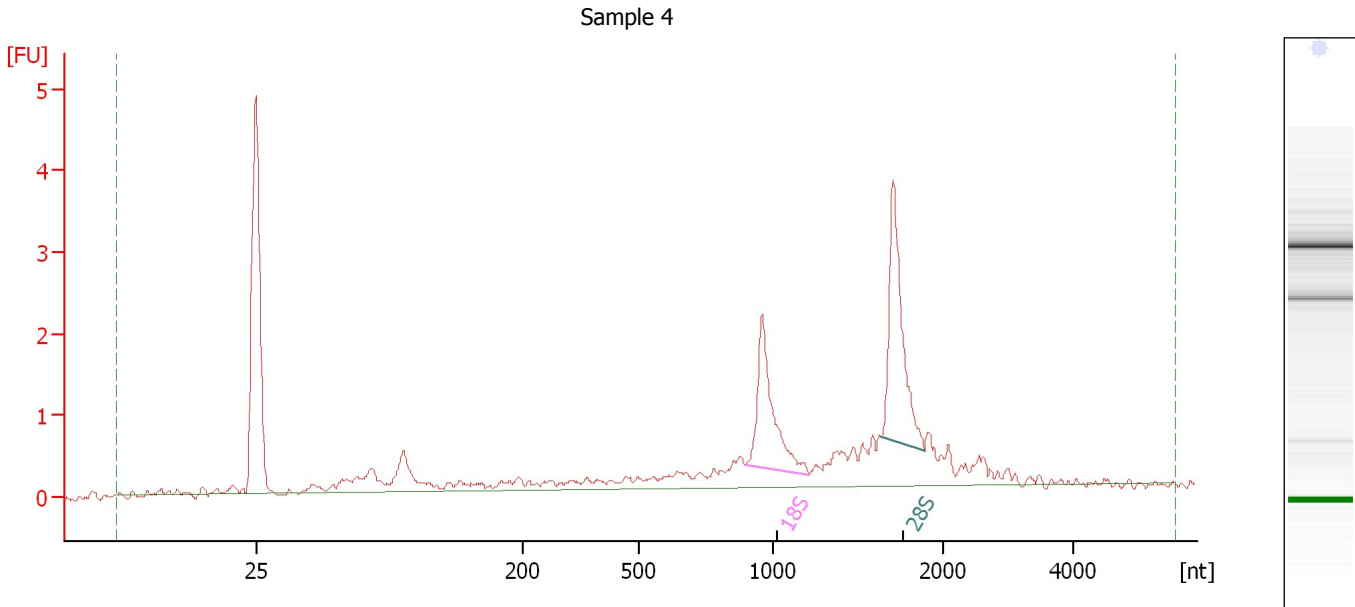
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	904	1,167	1.7	19.6
28S	1,645	1,906	2.3	26.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area: 21.3 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 31 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.10

Fragment table for sample 4 : Sample 4

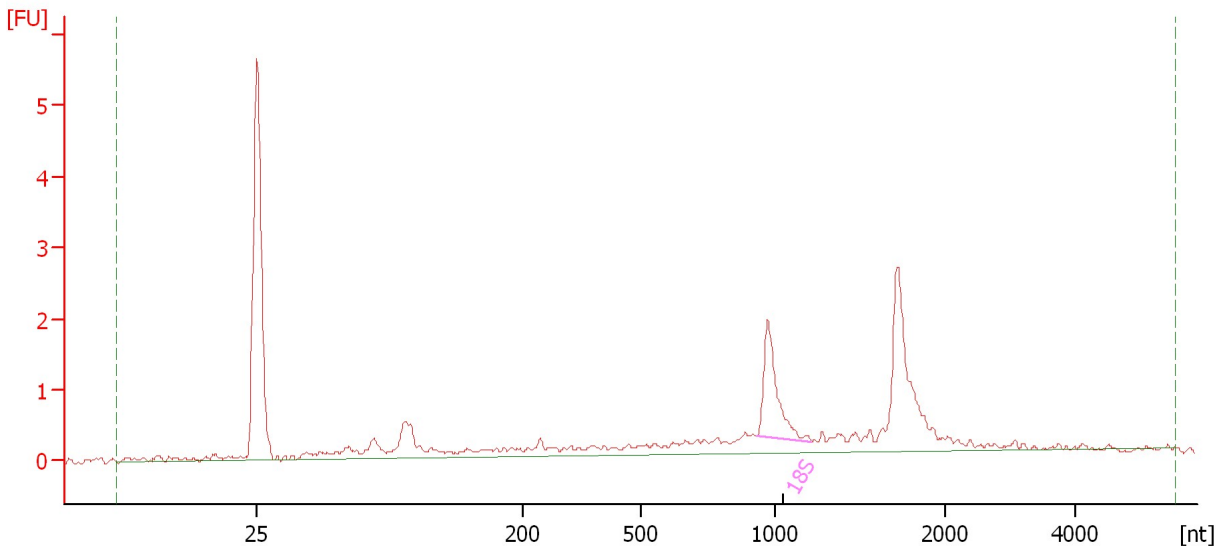
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	895	1,212	3.1	14.4
28S	1,633	1,890	4.0	18.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

RNA Area:	18.1	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	26 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.50

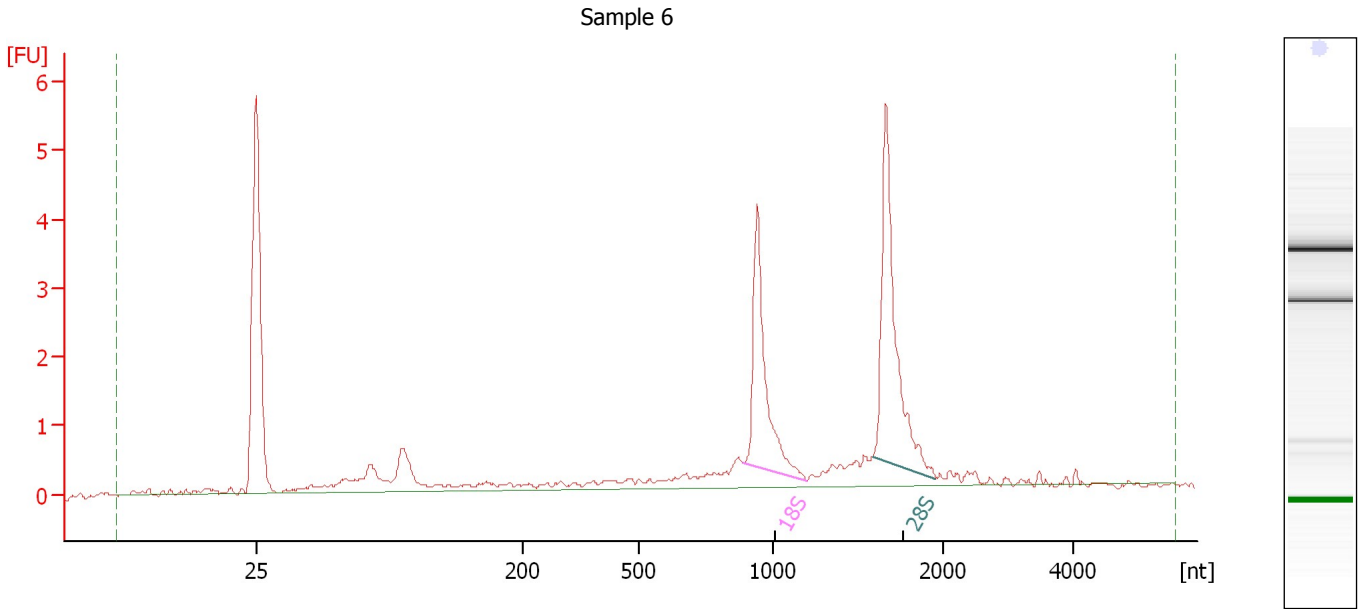
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	928	1,212	2.3	12.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area: 24.9 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 36 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.70

Fragment table for sample 6 : Sample 6

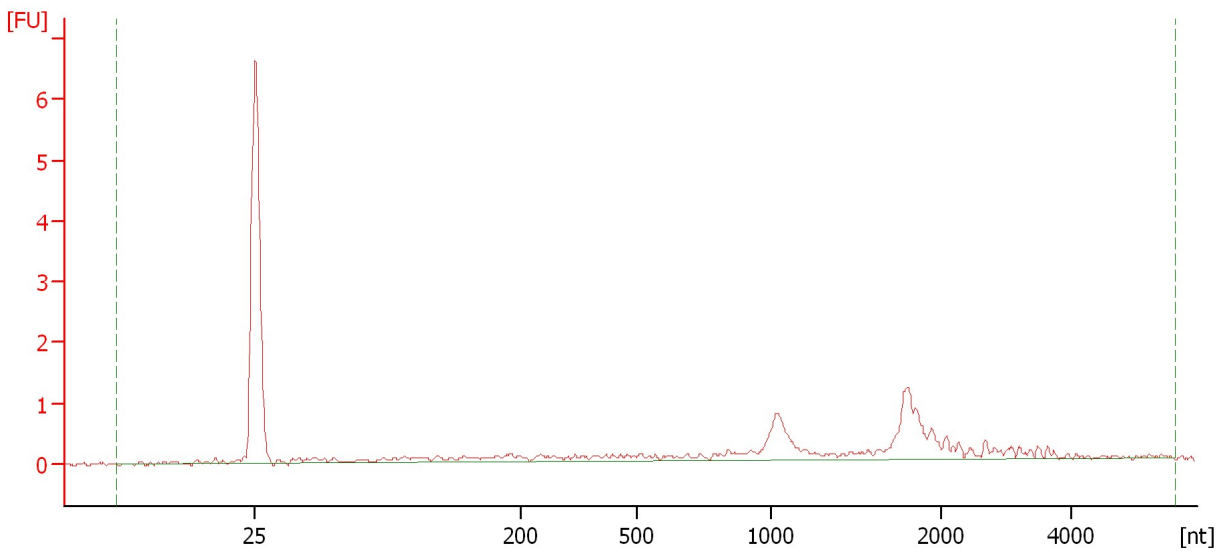
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	883	1,193	4.8	19.3
28S	1,589	1,953	6.7	26.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

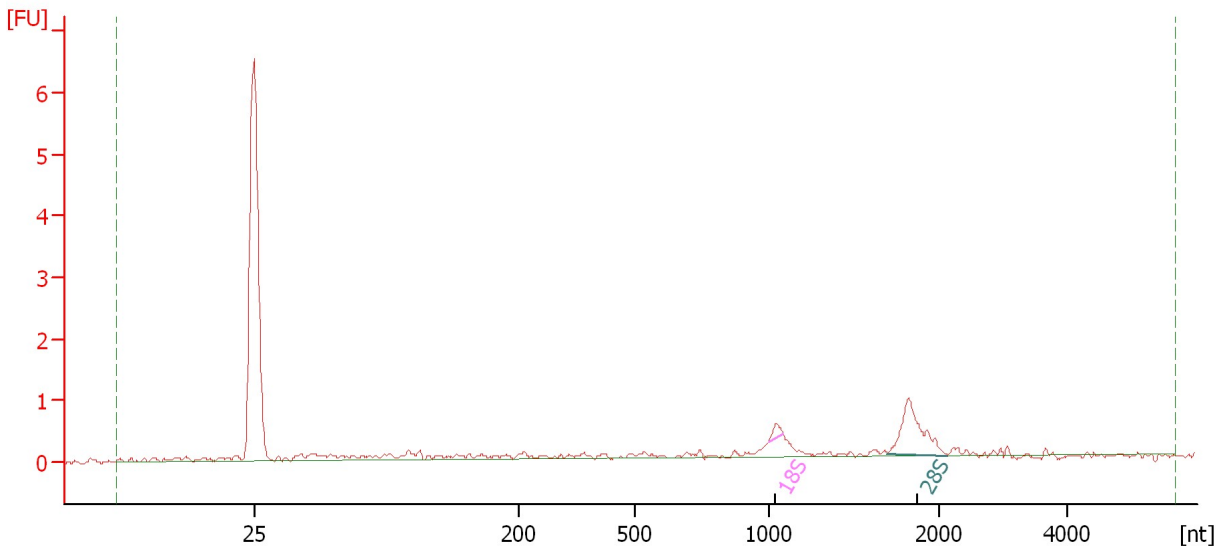
RNA Area:	11.2	RNA Integrity Number (RIN):	1.2 (B.02.08)
RNA Concentration:	16 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.20

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
 Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

RNA Area:	7.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	11 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	9.2	Result Flagging Label:	RIN N/A

Fragment table for sample 8 : Sample 8

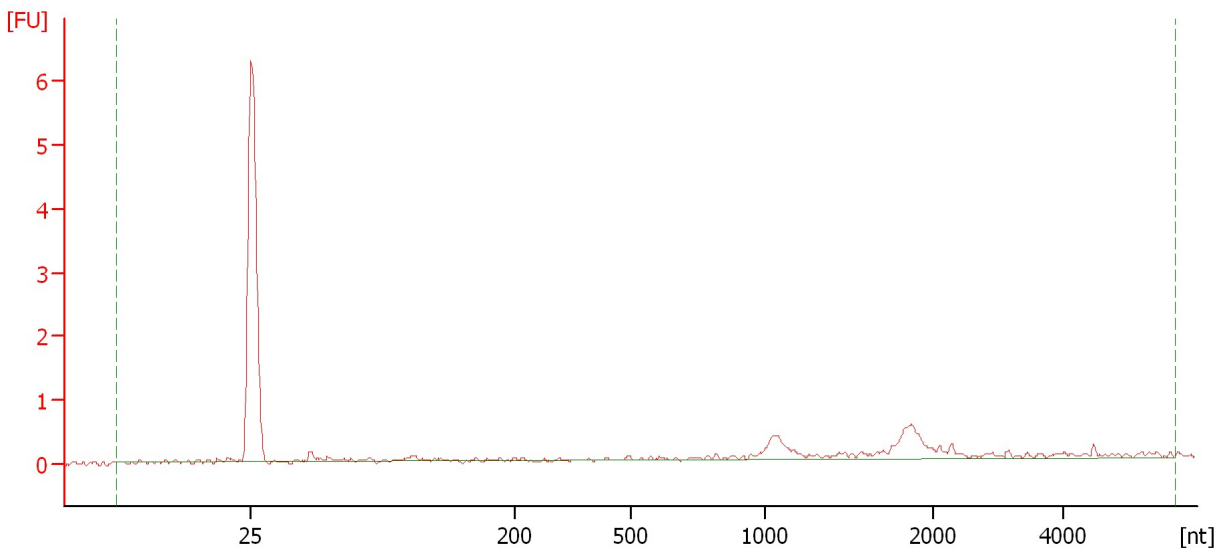
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	998	1,086	0.2	2.5
28S	1,697	2,133	1.7	22.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

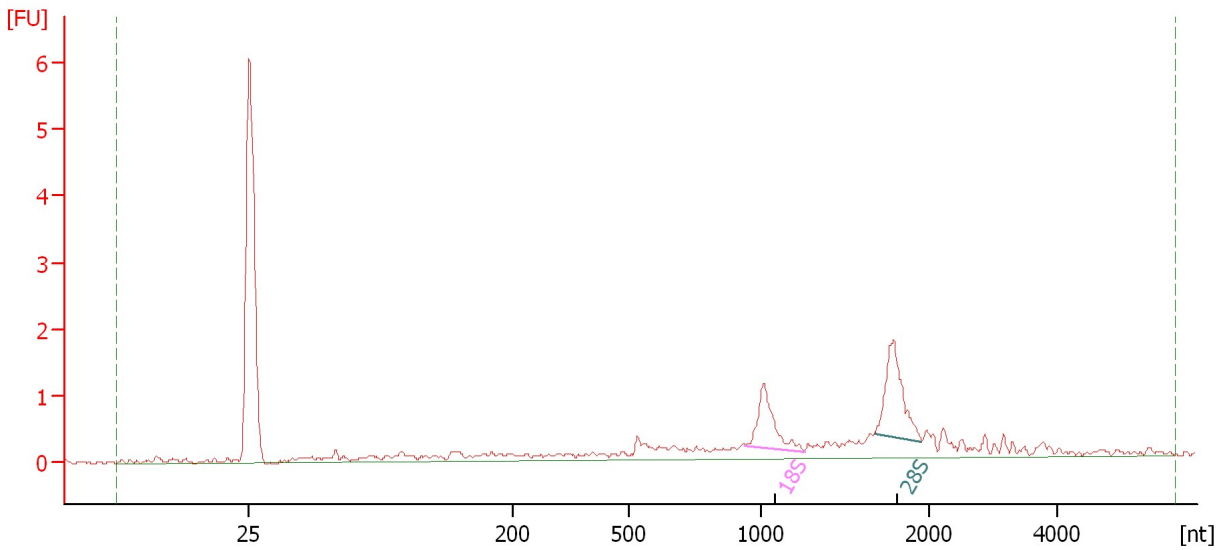
RNA Area:	5.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

RNA Area: 15.3 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 22 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.90

Fragment table for sample 10 : Sample 10

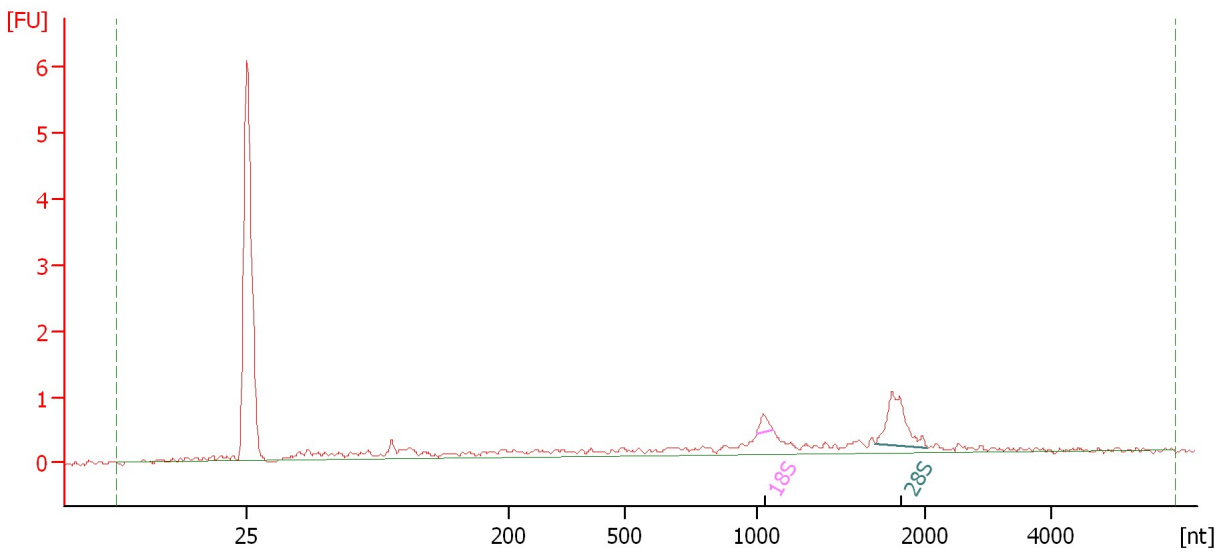
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	941	1,256	1.6	10.6
28S	1,682	1,955	2.3	15.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

RNA Area:	10.8	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	16 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	6.8	Result Flagging Label:	RIN: 5.40

Fragment table for sample 11 : Sample 11

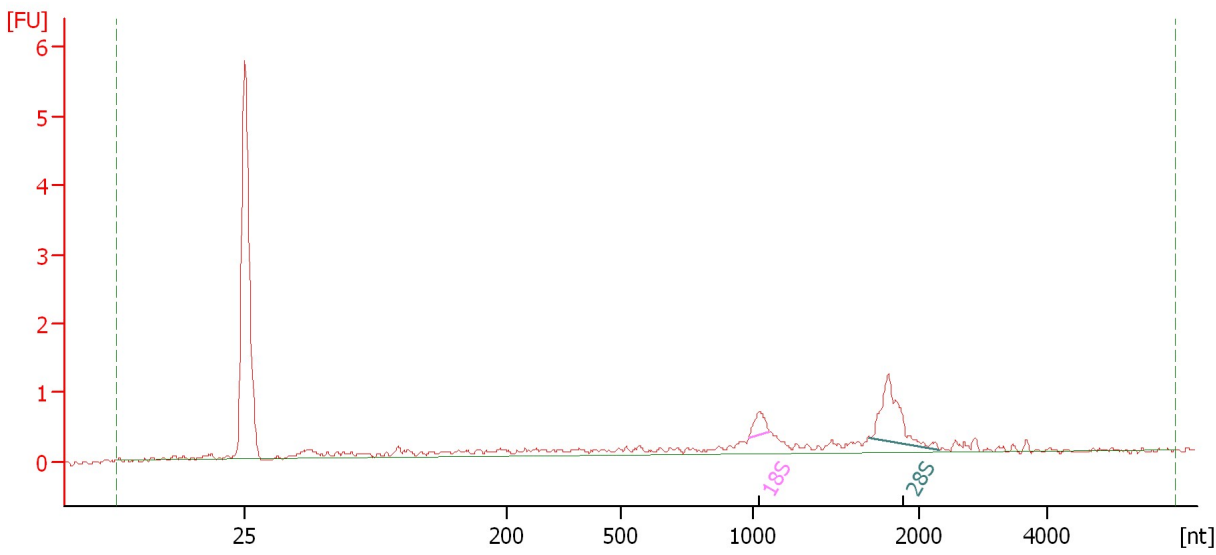
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	997	1,091	0.2	2.0
28S	1,709	2,058	1.5	13.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Electropherogram Summary Continued ...

Sample 12



Overall Results for sample 12 : Sample 12

RNA Area:	10.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.3	Result Flagging Label:	RIN N/A

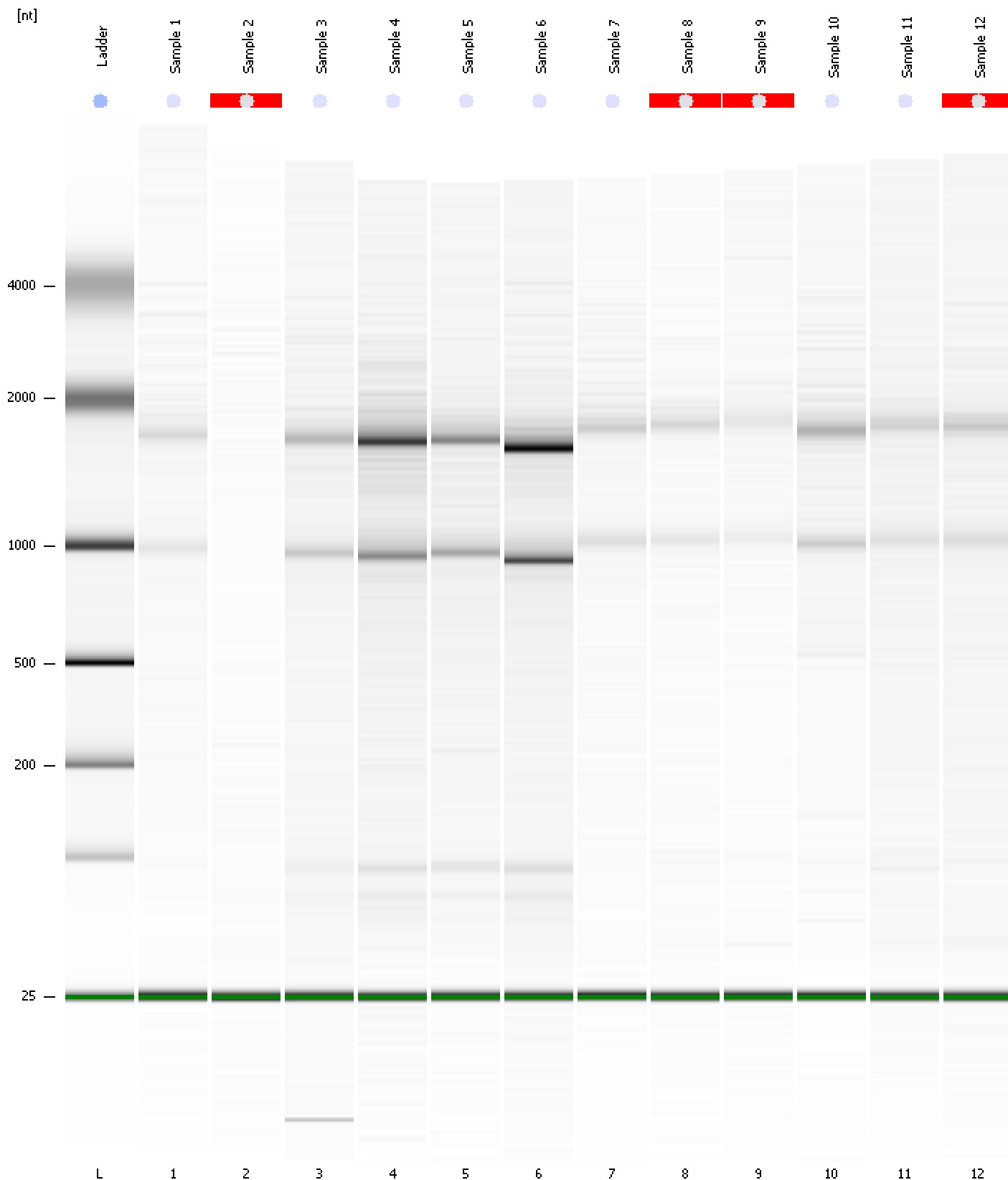
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	984	1,103	0.4	3.7
28S	1,698	2,318	1.7	15.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
Modified: 6/21/2013 1:33:27 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad

Created: 6/21/2013 1:09:39 PM
 Modified: 6/21/2013 1:33:27 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		6/21/2013 1:33:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-21\2013-06-21_004.xad)		Instrument	Run		6/21/2013 1:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/21/2013 1:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/21/2013 1:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/21/2013 1:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/21/2013 1:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/21/2013 1:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/21/2013 1:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1