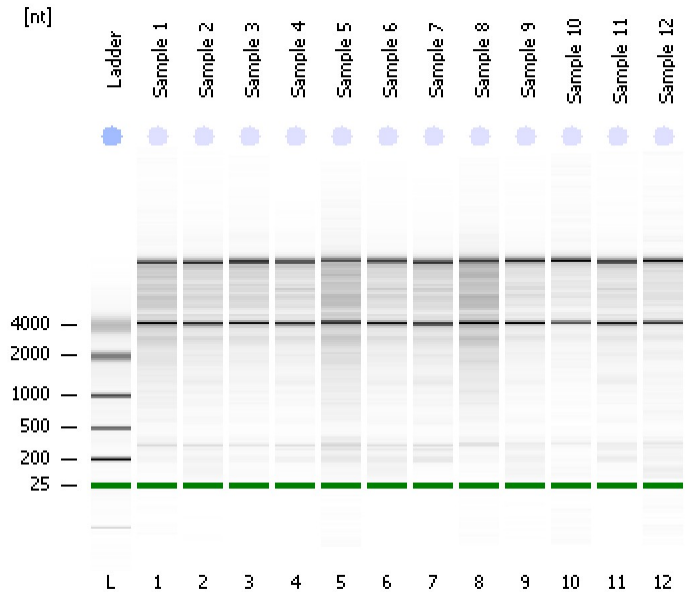


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Electrophoresis File Run Summary



Instrument Information:

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

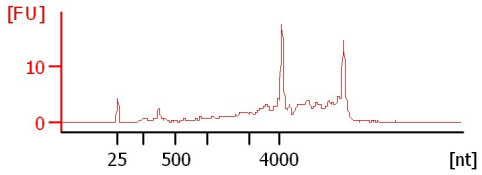
Assay Information:

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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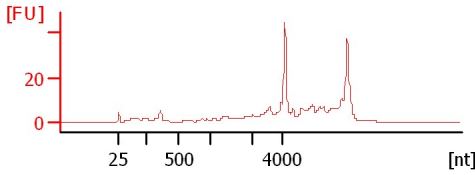
Chip Information:

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

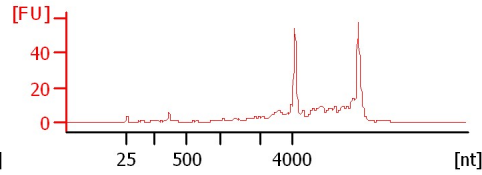
Sample 1
RIN: 6.60



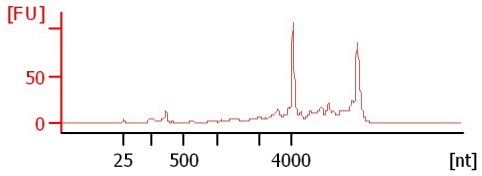
Sample 2
RIN: 7.10



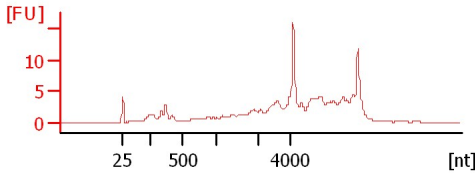
Sample 3
RIN: 7.50



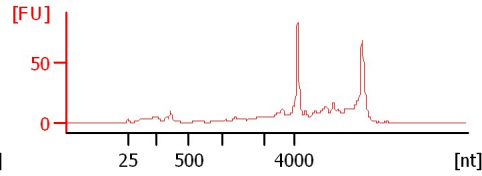
Sample 4
RIN: 7.50



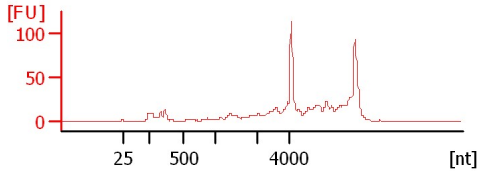
Sample 5
RIN: 6.10



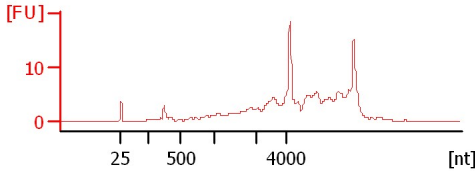
Sample 6
RIN: 7.30



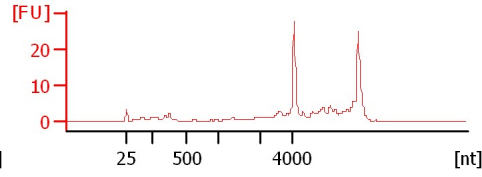
Sample 7
RIN: 7.10



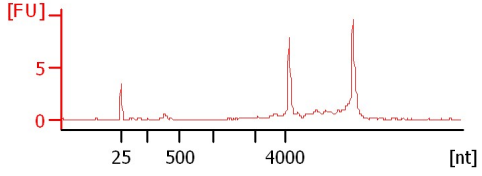
Sample 8
RIN: 6.10



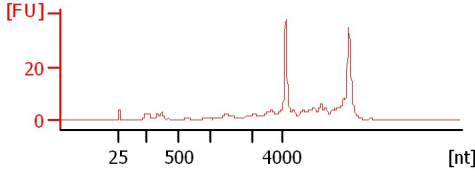
Sample 9
RIN: 8



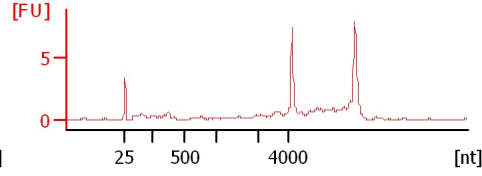
Sample 10
RIN: 8.50



Sample 11
RIN: 7.90



Sample 12
RIN: 7.80



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
 Modified: 11/3/2014 3:28:04 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 6.60	
Sample 2		✓	RIN: 7.10	
Sample 3		✓	RIN: 7.50	
Sample 4		✓	RIN: 7.50	
Sample 5		✓	RIN: 6.10	
Sample 6		✓	RIN: 7.30	
Sample 7		✓	RIN: 7.10	
Sample 8		✓	RIN: 6.10	
Sample 9		✓	RIN:8	
Sample 10		✓	RIN: 8.50	
Sample 11		✓	RIN: 7.90	
Sample 12		✓	RIN: 7.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 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/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 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

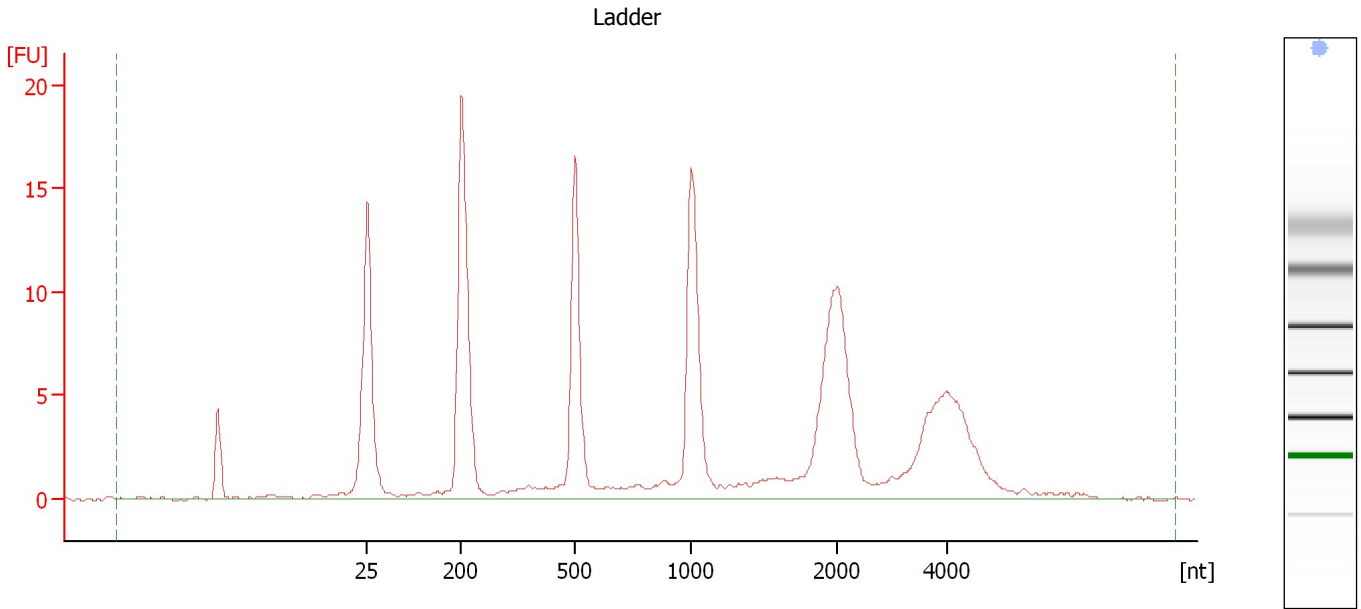
Ladder

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\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary



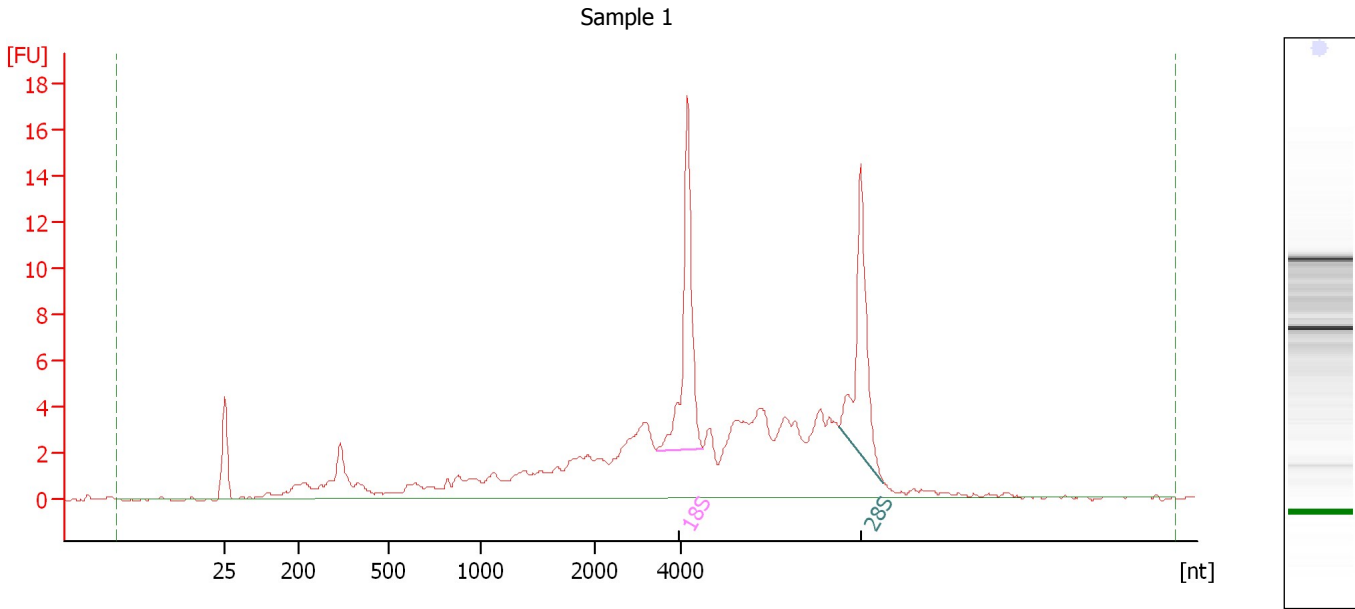
Overall Results for Ladder

RNA Area:	153.1	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\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	135.5	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	133 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 6.60

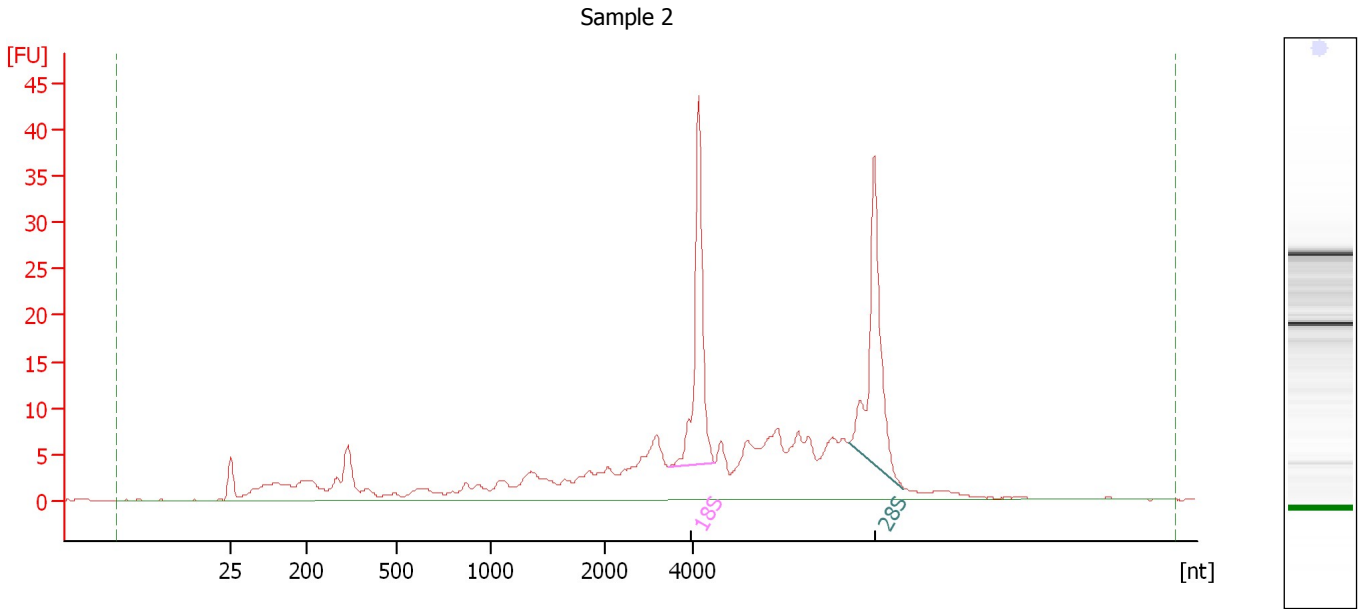
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,439	4,511	15.1	11.1
28S	7,676	8,722	13.0	9.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	292.9	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	287 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.10

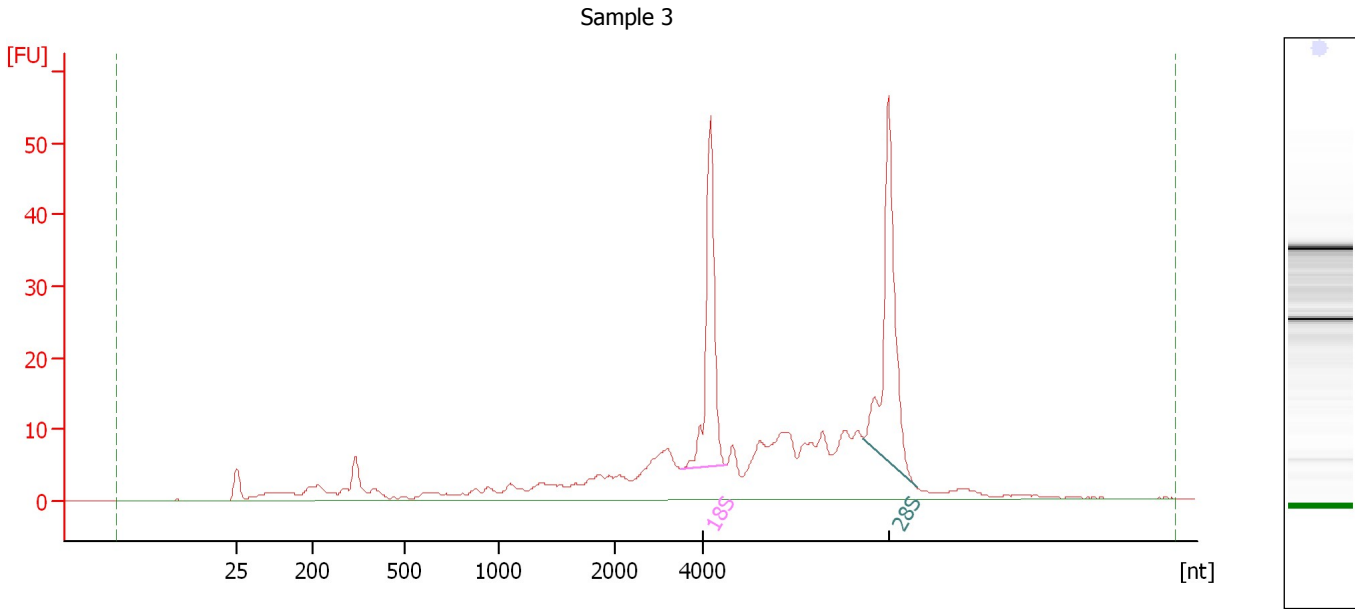
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,466	4,500	36.9	12.6
28S	7,601	8,857	37.0	12.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	347.9	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	341 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.50

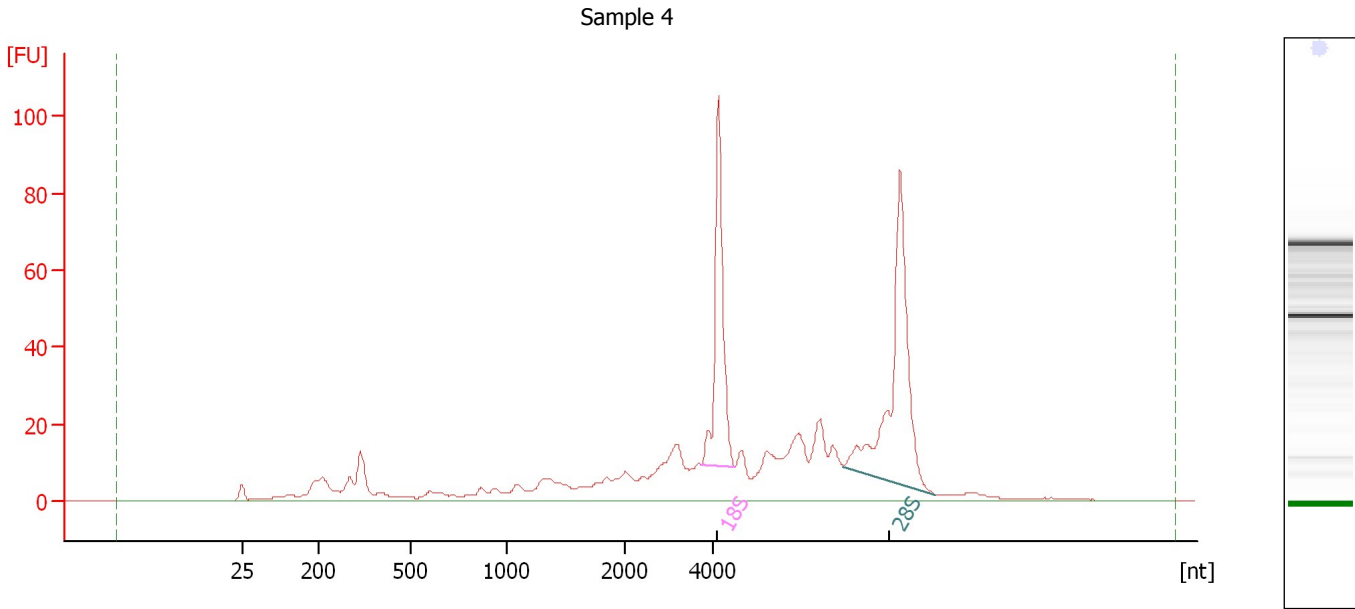
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,511	4,535	45.1	13.0
28S	7,679	8,873	55.9	16.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	626.1	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	613 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.50

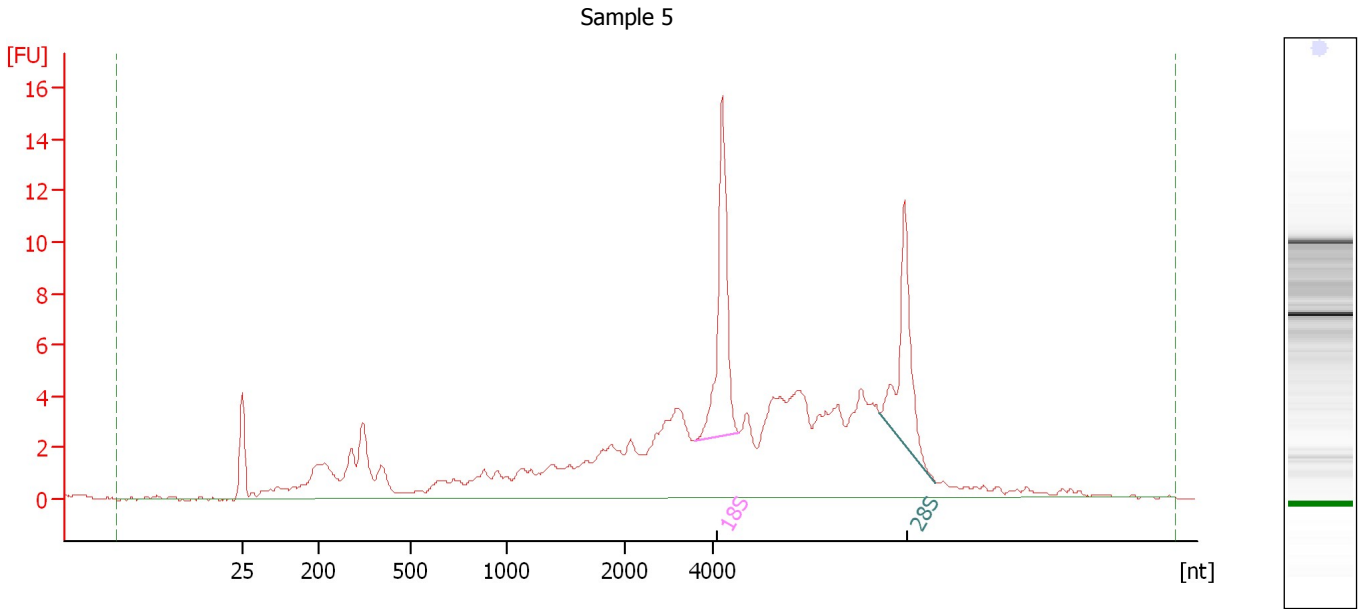
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,749	4,521	86.3	13.8
28S	6,959	9,010	124.0	19.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
 Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	155.1	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	152 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.10

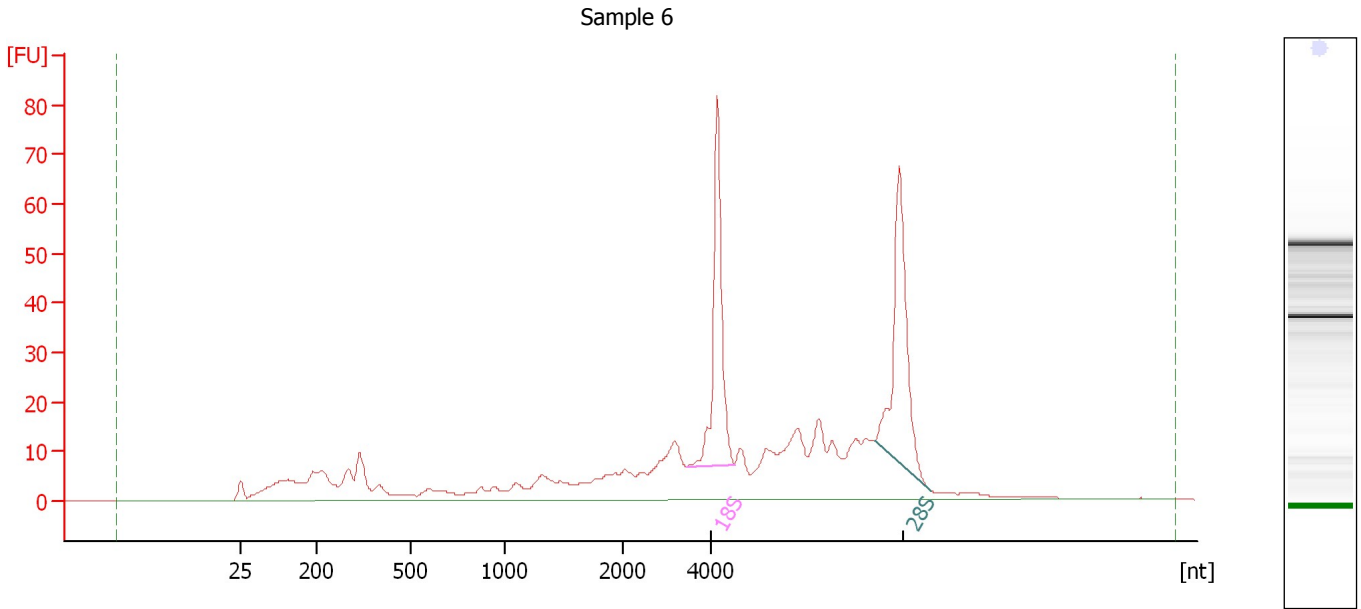
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,604	4,594	13.0	8.4
28S	7,779	9,034	10.4	6.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
 Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	562.6	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	551 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.30

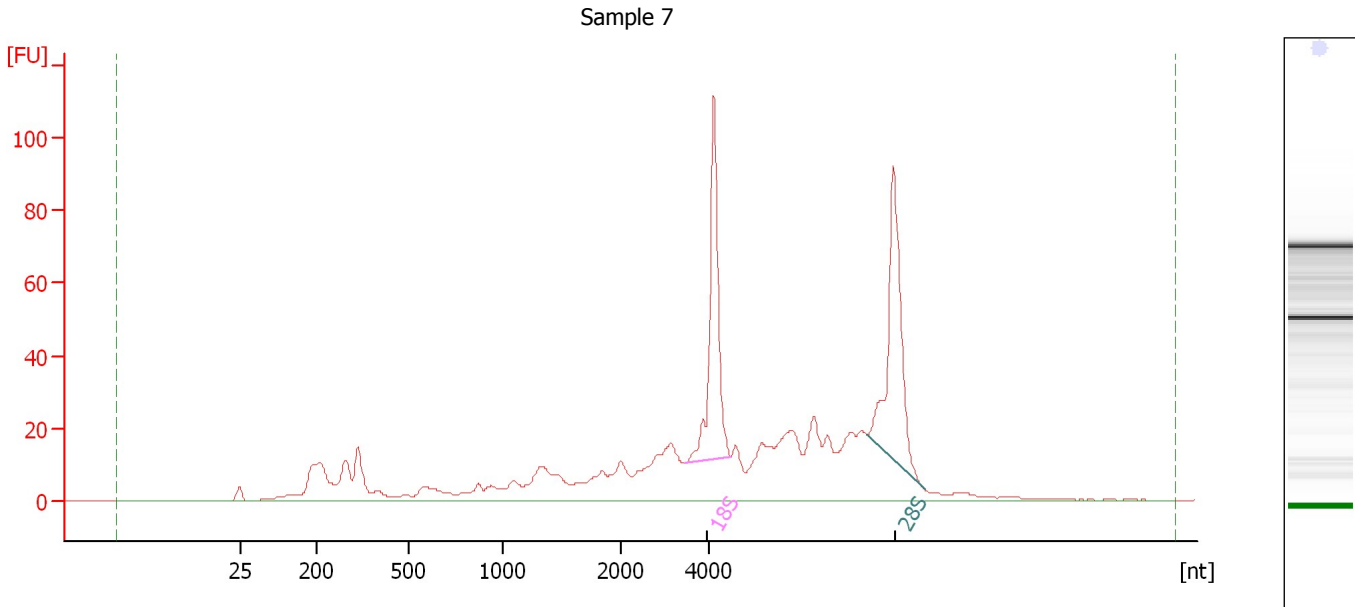
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,455	4,543	70.6	12.5
28S	7,711	8,993	73.7	13.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
 Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	794.7	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	778 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.10

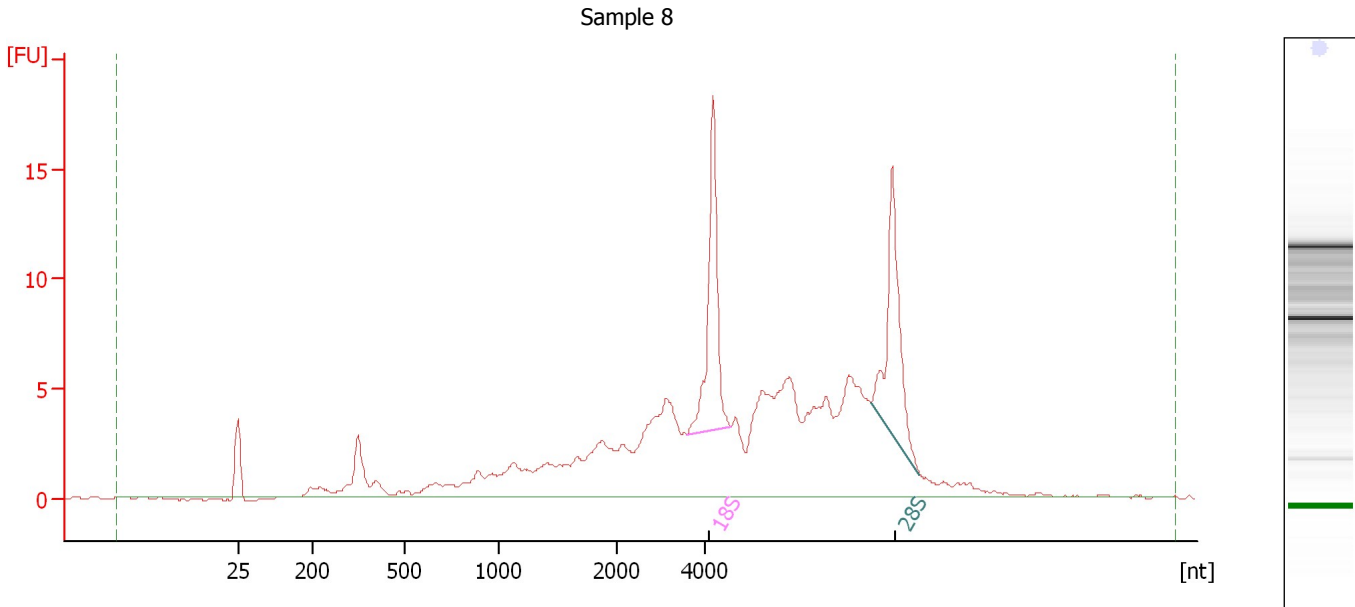
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,475	4,493	98.0	12.3
28S	7,594	8,902	100.9	12.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
 Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	170.5	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	167 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 6.10

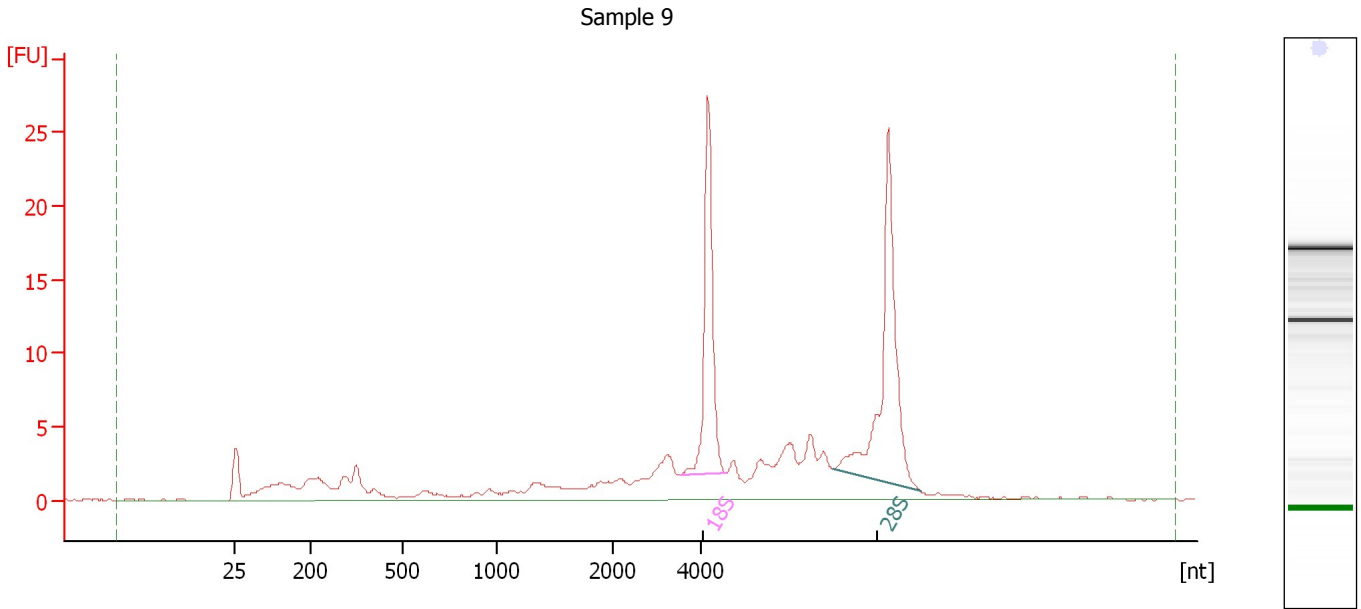
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,613	4,586	15.5	9.1
28S	7,772	8,891	14.2	8.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
 Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	151.1	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	148 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN:8

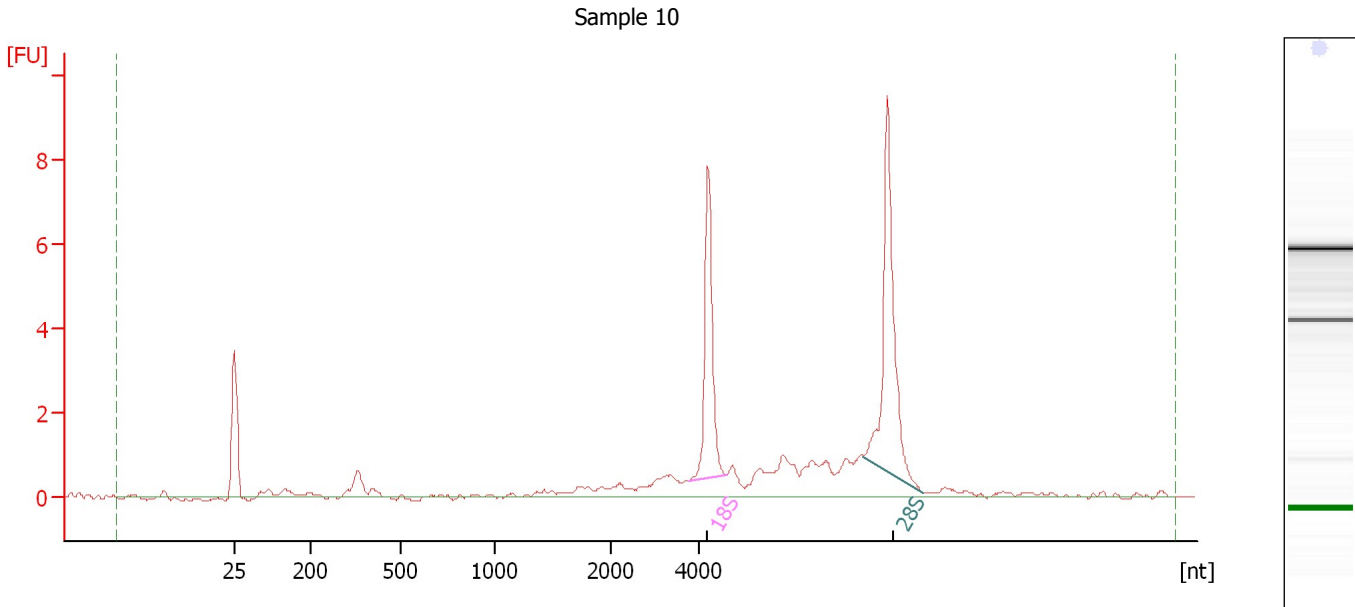
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,531	4,582	22.8	15.1
28S	7,048	9,026	32.2	21.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
 Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	36.9	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.50

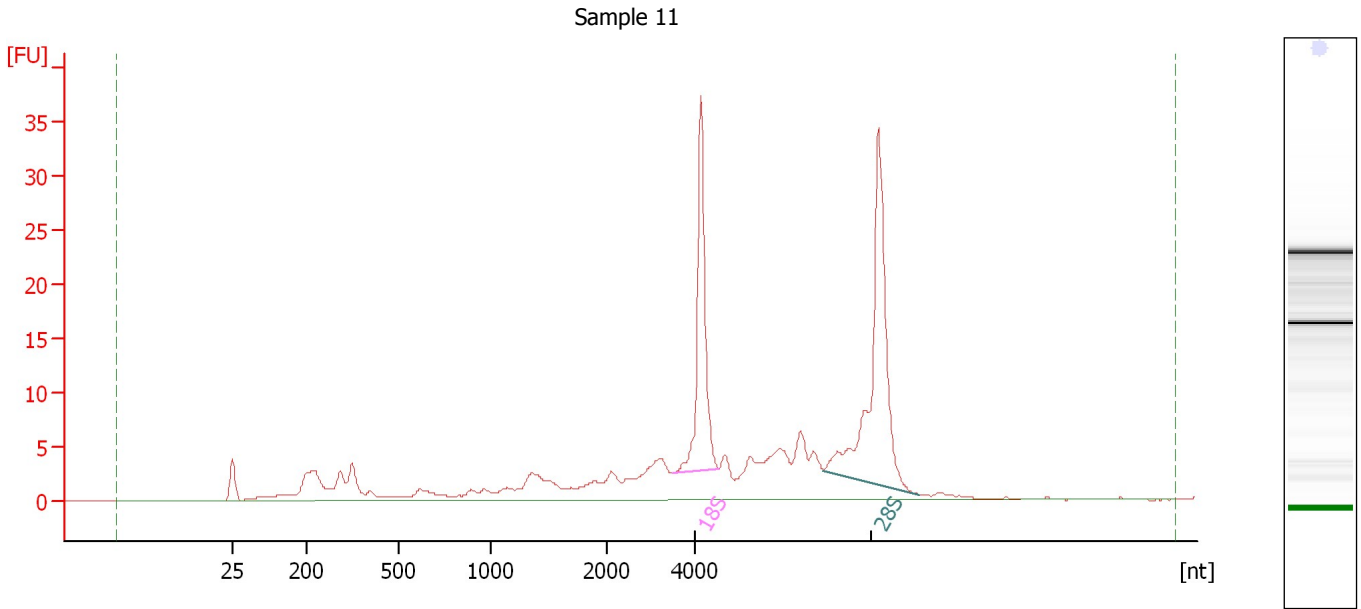
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,772	4,629	6.1	16.4
28S	7,785	9,156	9.0	24.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	211.0	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	207 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 7.90

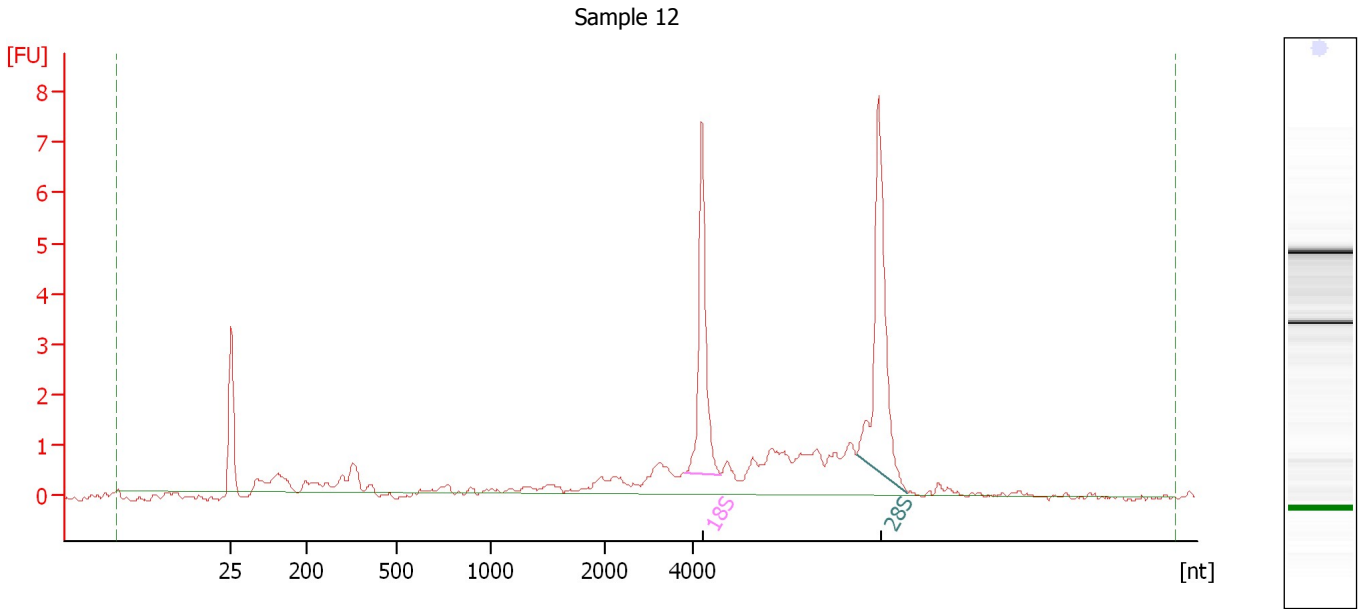
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,494	4,551	31.5	14.9
28S	6,959	9,170	46.1	21.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area:	35.5	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	35 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.80

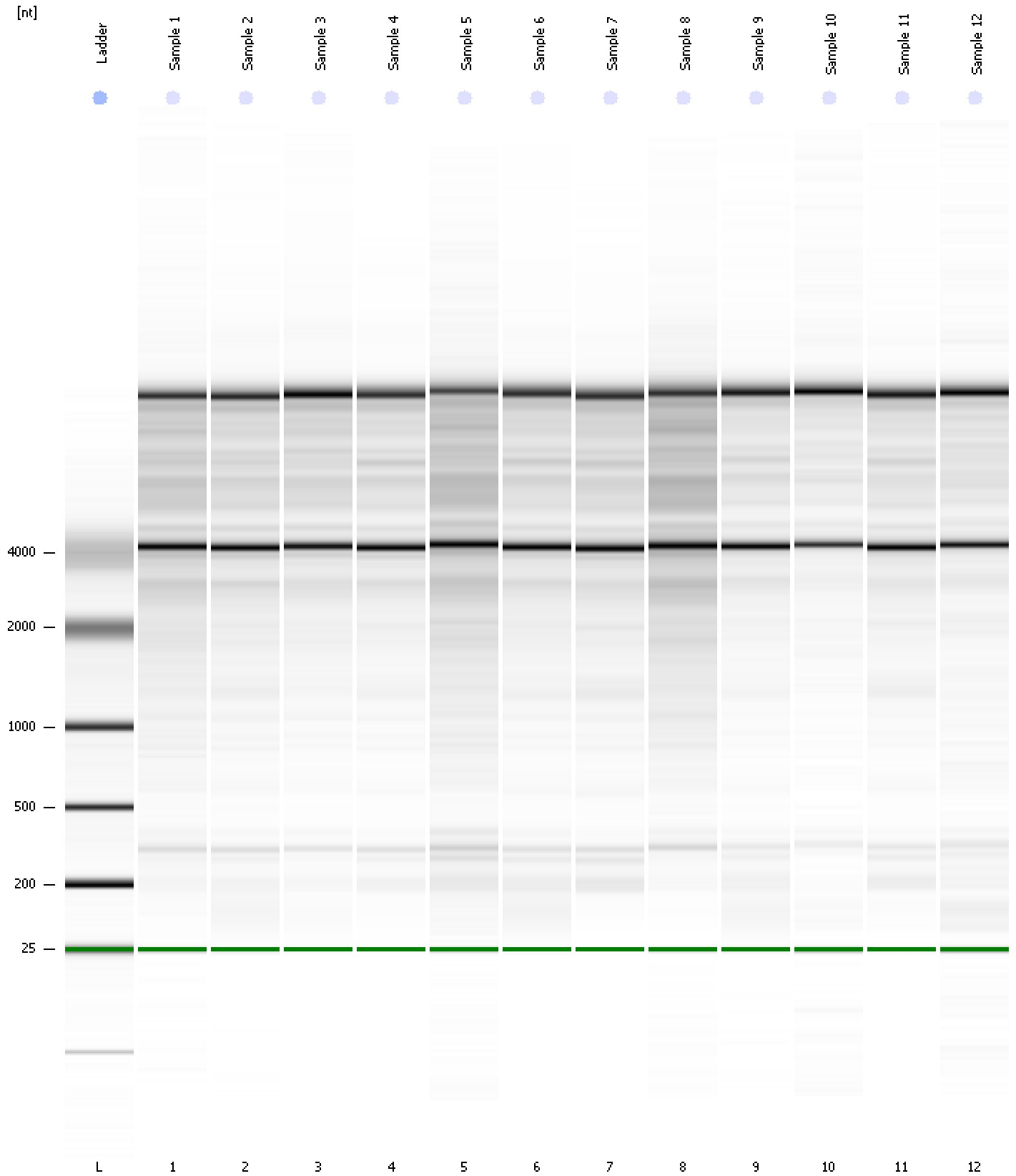
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,835	4,647	5.8	16.2
28S	7,774	8,955	7.6	21.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
Modified: 11/3/2014 3:28:04 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad

Created: 11/3/2014 3:04:15 PM
 Modified: 11/3/2014 3:28:04 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		11/3/2014 3:28:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-03\2014-11-03_004.xad)		Instrument	Run		11/3/2014 3:04:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/3/2014 3:04:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/3/2014 3:04:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/3/2014 3:04:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/3/2014 3:04:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/3/2014 3:04:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/3/2014 3:04:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1