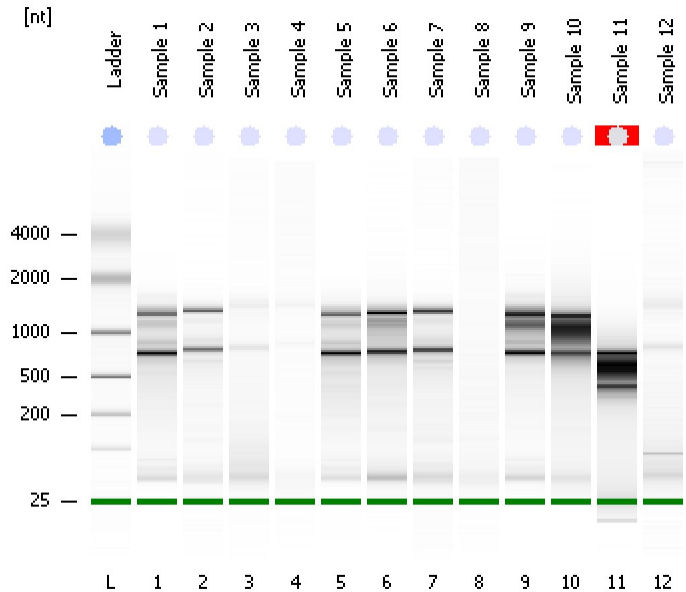


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 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 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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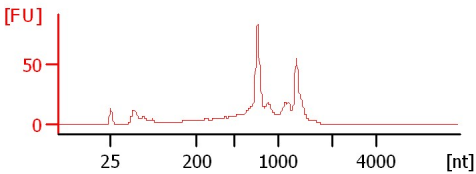
Chip Information:

Chip Lot #:

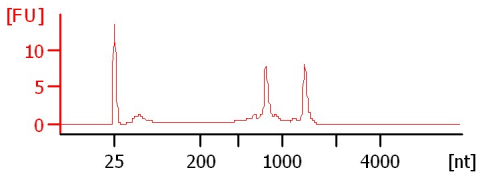
Reagent Kit Lot #:

Chip Comments:

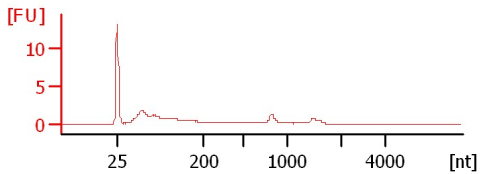
Sample 1
RIN: 7.40



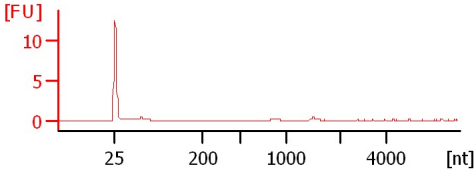
Sample 2
RIN: 8.10



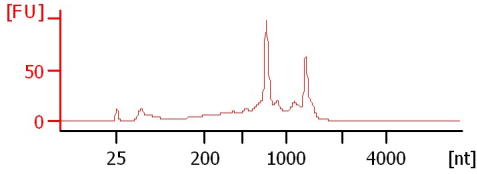
Sample 3
RIN: 4.20



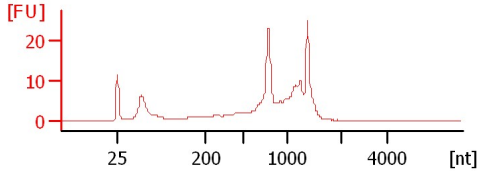
Sample 4
RIN: 1



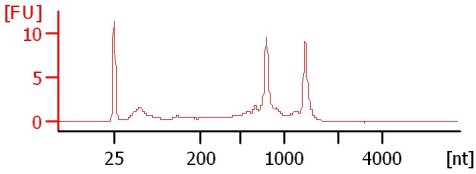
Sample 5
RIN: 7.20



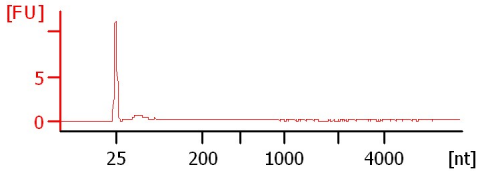
Sample 6
RIN: 7.30



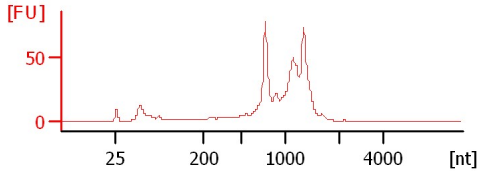
Sample 7
RIN: 7.90



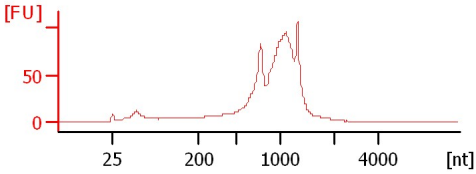
Sample 8
RIN: 1



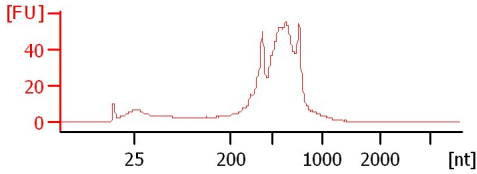
Sample 9
RIN: 7.40



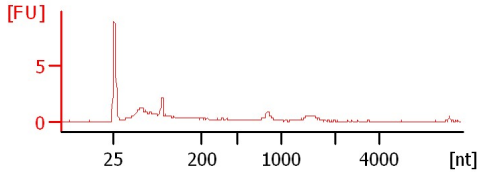
Sample 10
RIN: 4.60



Sample 11
RIN N/A



Sample 12
RIN: 2.80



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
 Modified: 6/28/2013 11:00:26 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 7.40	
Sample 2		✓	RIN: 8.10	
Sample 3		✓	RIN: 4.20	
Sample 4		✓	RIN:1	
Sample 5		✓	RIN: 7.20	
Sample 6		✓	RIN: 7.30	
Sample 7		✓	RIN: 7.90	
Sample 8		✓	RIN:1	
Sample 9		✓	RIN: 7.40	
Sample 10		✓	RIN: 4.60	
Sample 11		✓	RIN N/A	
Sample 12		✓	RIN: 2.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

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

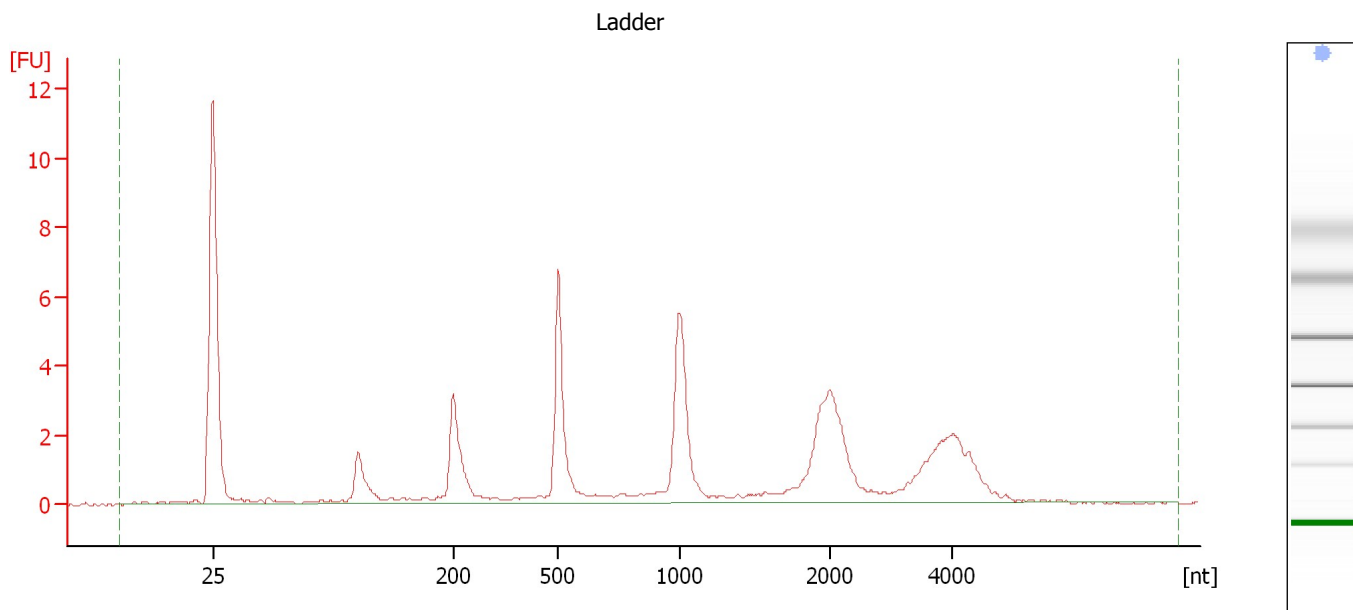
Ladder

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\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary



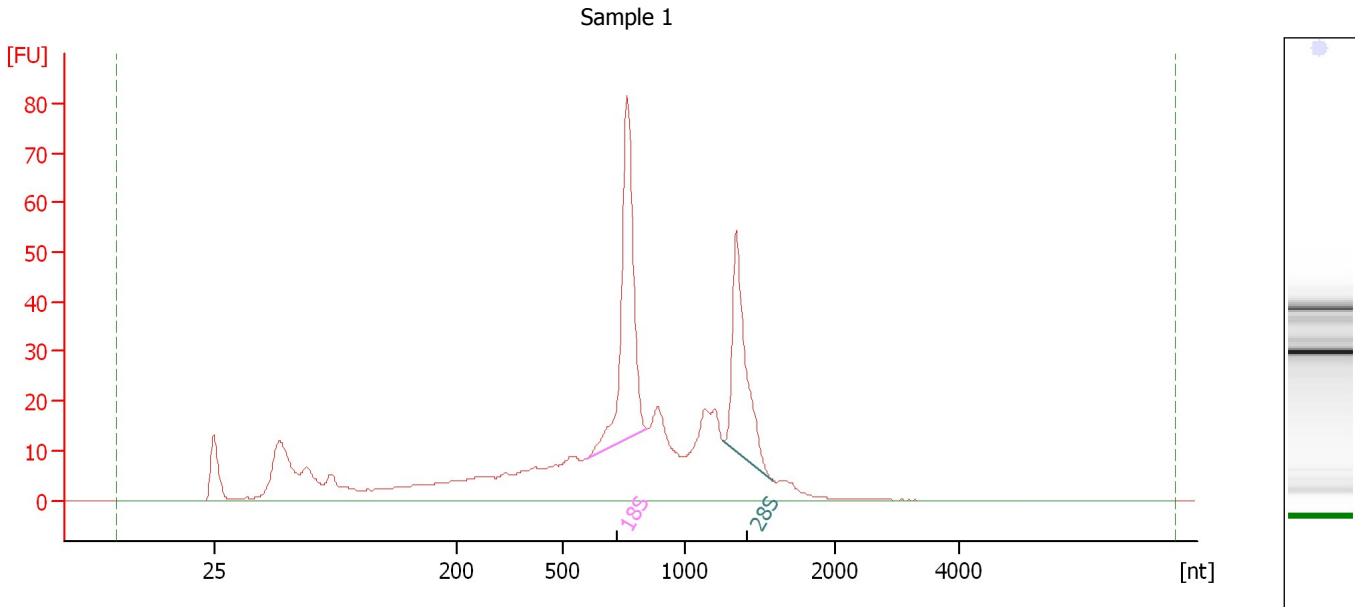
Overall Results for Ladder

RNA Area:	52.6	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	622.4	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	1,777 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 7.40

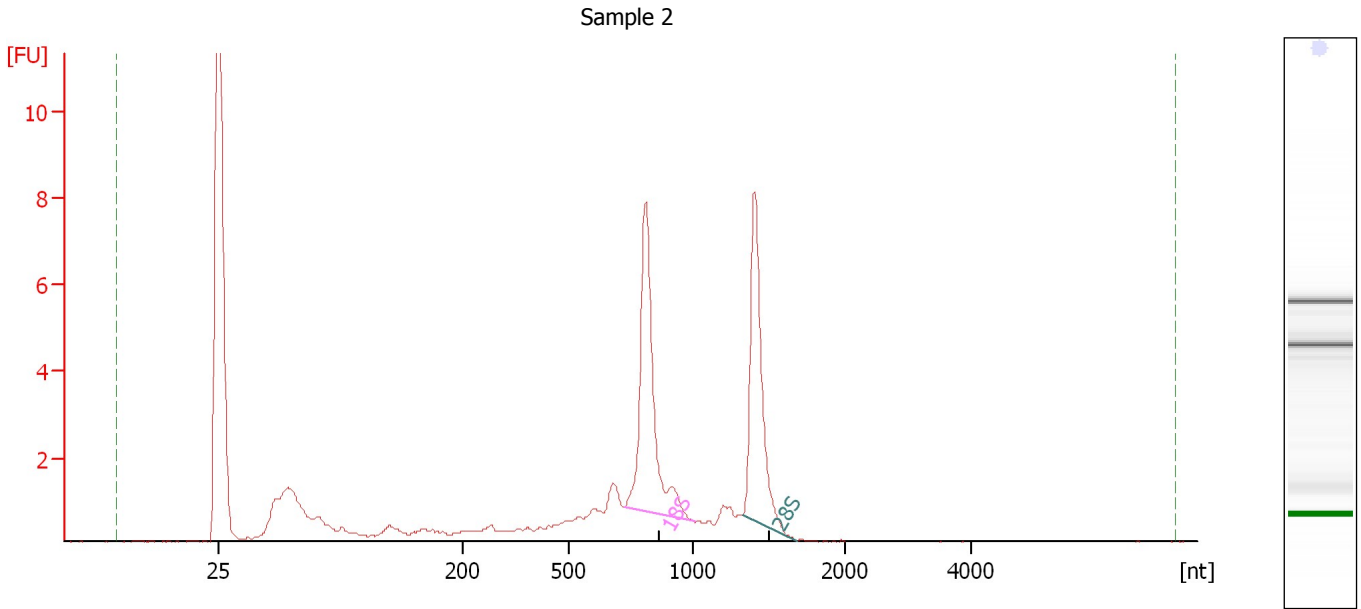
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	596	844	100.5	16.1
28S	1,257	1,583	65.1	10.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	57.5	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	164 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 8.10

Fragment table for sample 2 : Sample 2

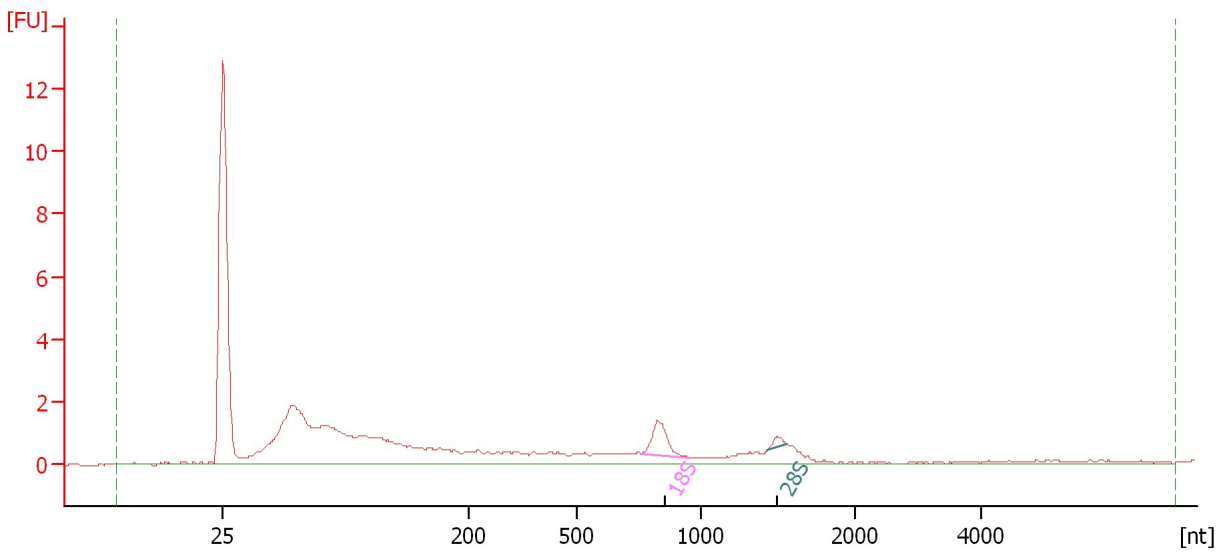
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	722	1,004	11.3	19.7
28S	1,320	1,679	9.2	16.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 3 : Sample 3

RNA Area:	46.8	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	134 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 4.20

Fragment table for sample 3 : Sample 3

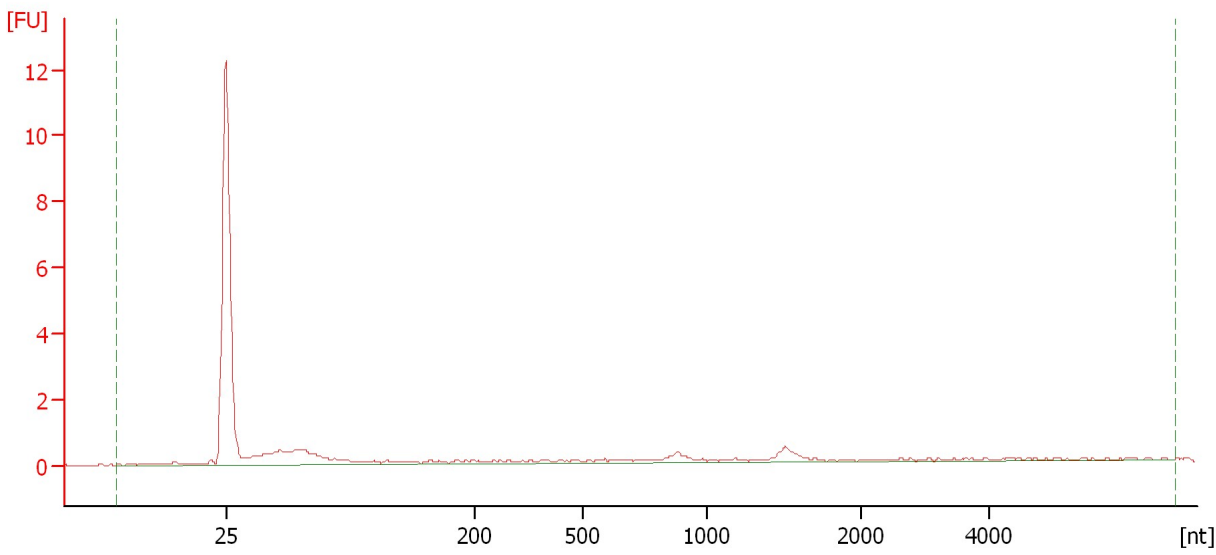
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	760	961	1.9	4.1
28S	1,432	1,557	0.4	0.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...

Sample 4



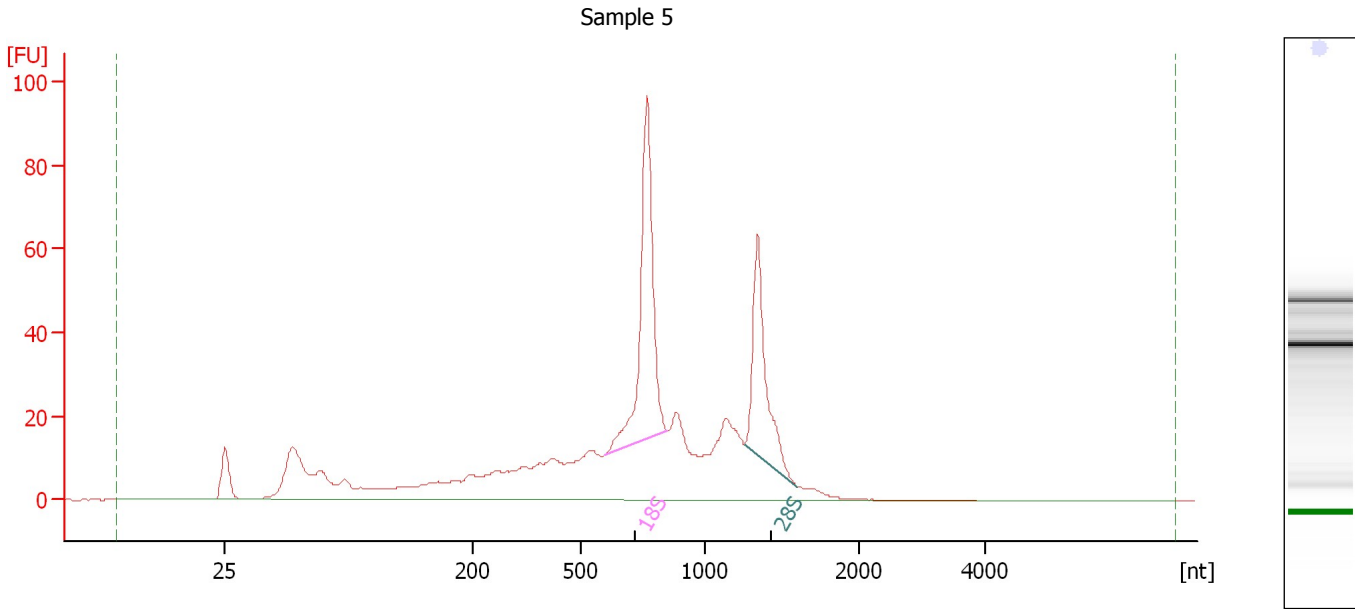
Overall Results for sample 4 : Sample 4

RNA Area:	13.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	38 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\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	720.4	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	2,056 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 7.20

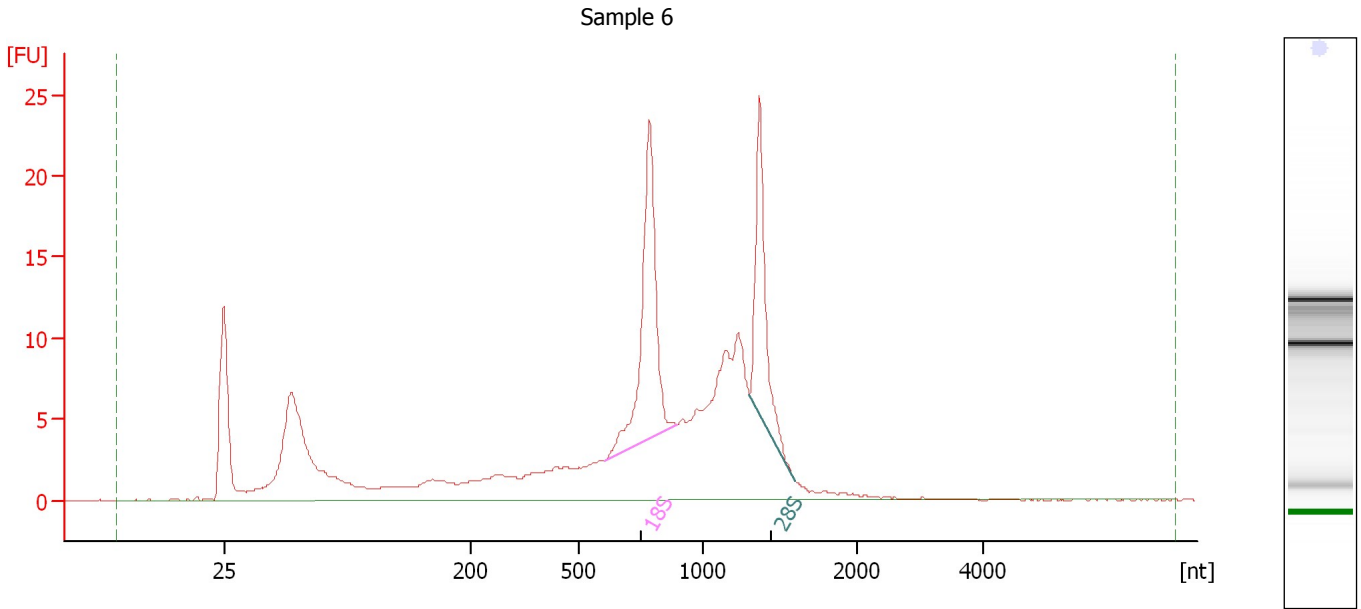
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	600	847	120.7	16.8
28S	1,251	1,597	72.0	10.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	236.1	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	674 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 7.30

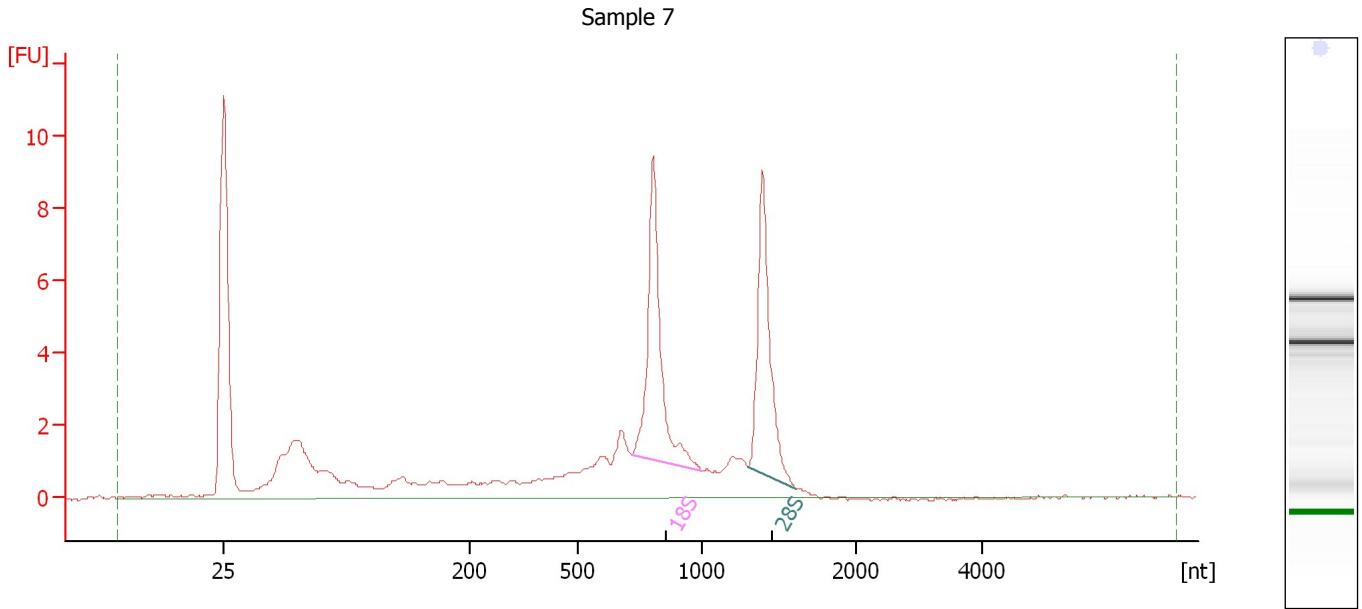
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	607	893	32.4	13.7
28S	1,299	1,591	20.4	8.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	71.8	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	205 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.90

Fragment table for sample 7 : Sample 7

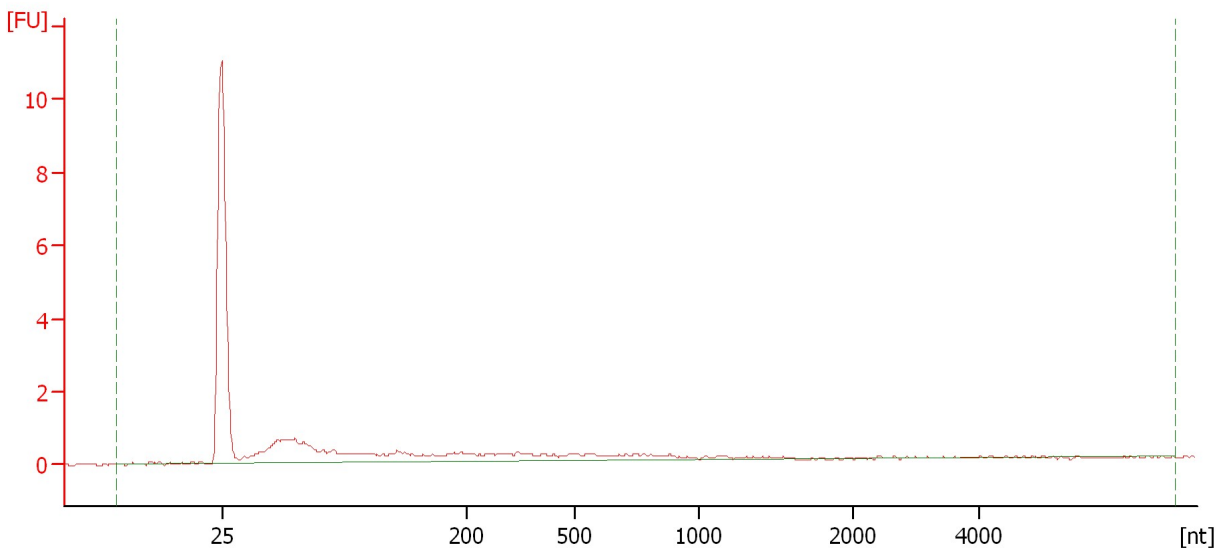
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	717	995	12.8	17.9
28S	1,292	1,613	11.0	15.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...

Sample 8



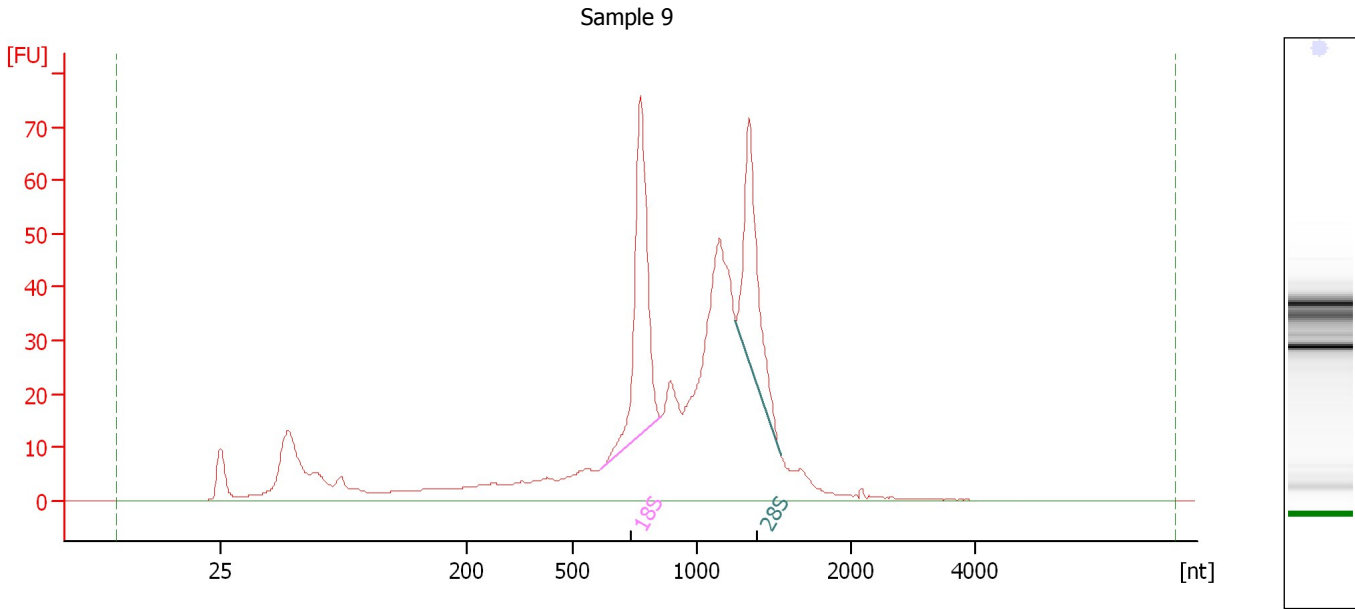
Overall Results for sample 8 : Sample 8

RNA Area:	16.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	46 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\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
 Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	744.4	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	2,125 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 7.40

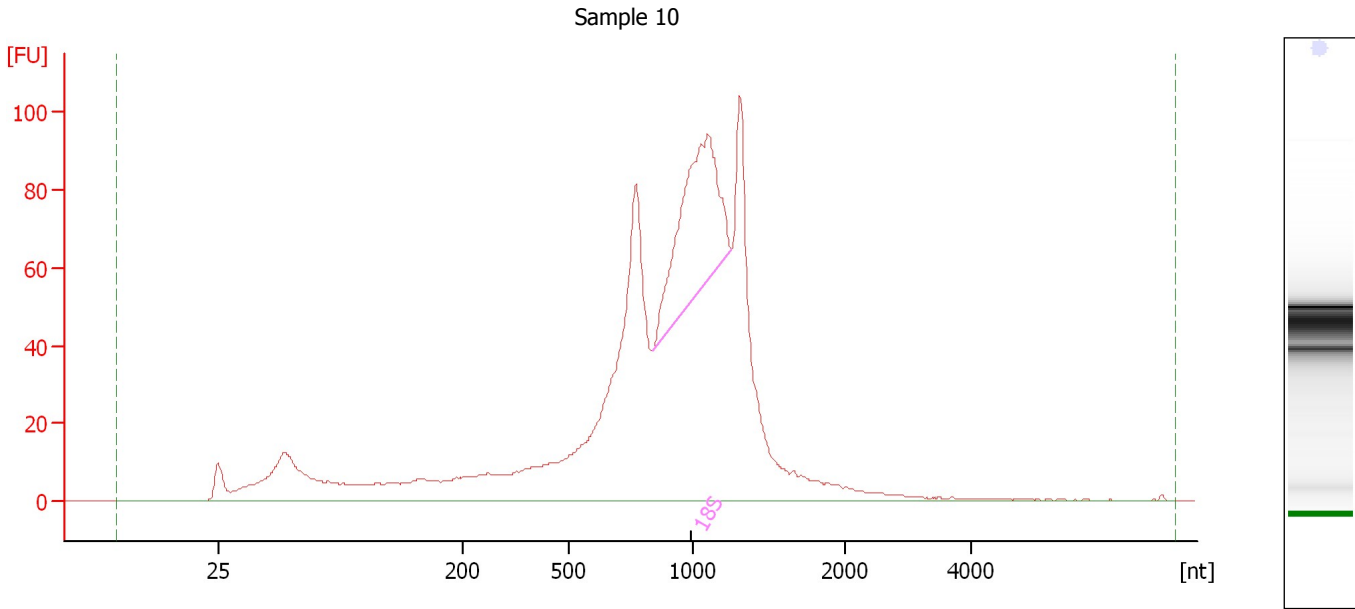
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	612	853	96.6	13.0
28S	1,250	1,544	67.3	9.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	1,436.1	RNA Integrity Number (RIN):	4.6 (B.02.08)
RNA Concentration:	4,099 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.60

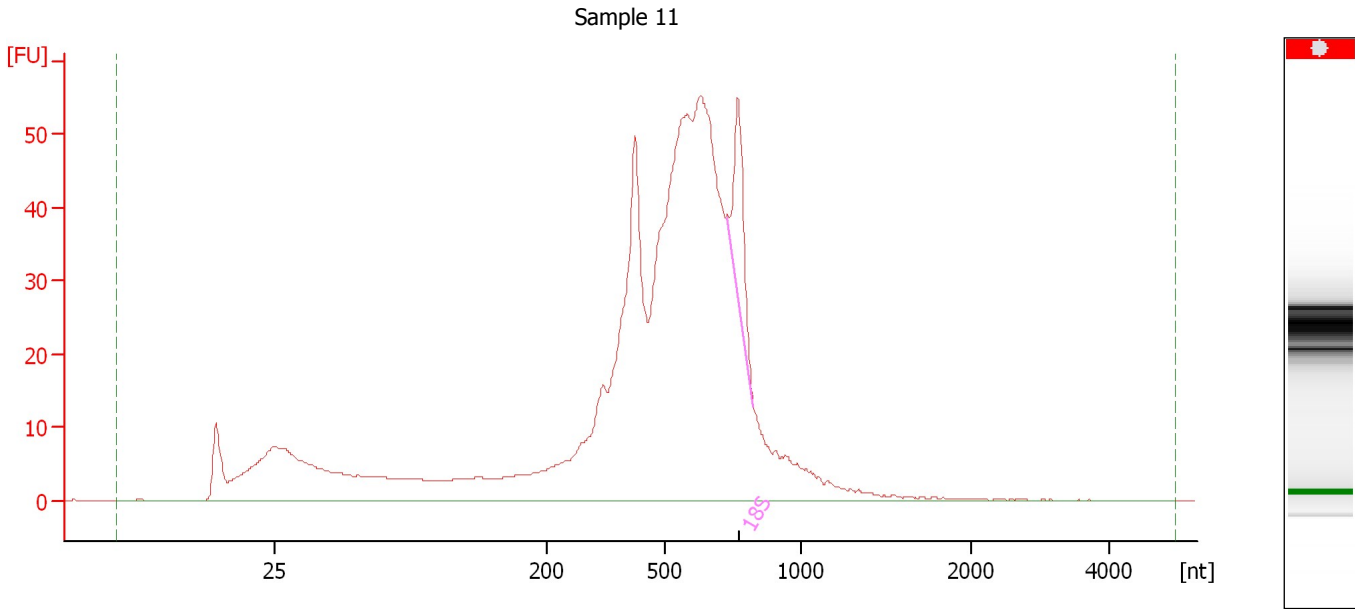
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	838	1,250	175.4	12.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	819.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,338 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 11 : Sample 11

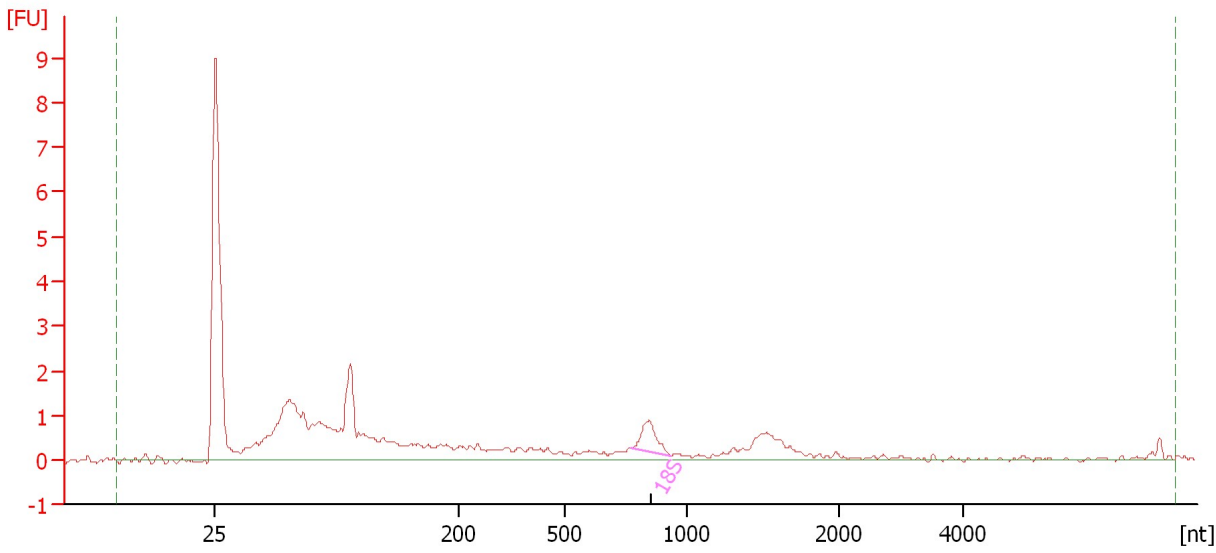
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	724	825	29.2	3.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Electropherogram Summary Continued ...

Sample 12



Overall Results for sample 12 : Sample 12

RNA Area:	32.7	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	93 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

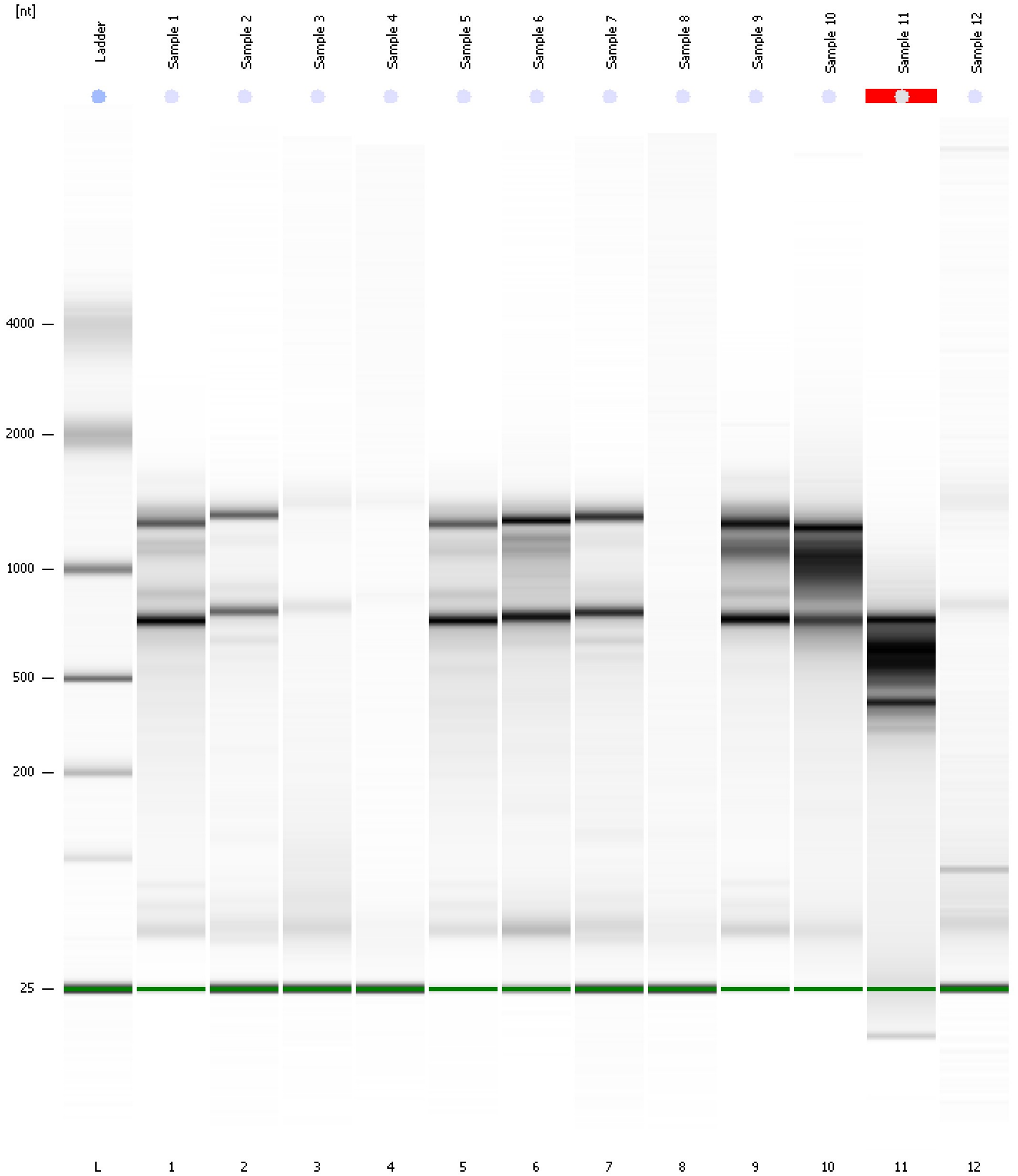
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	771	936	1.2	3.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Gel Image

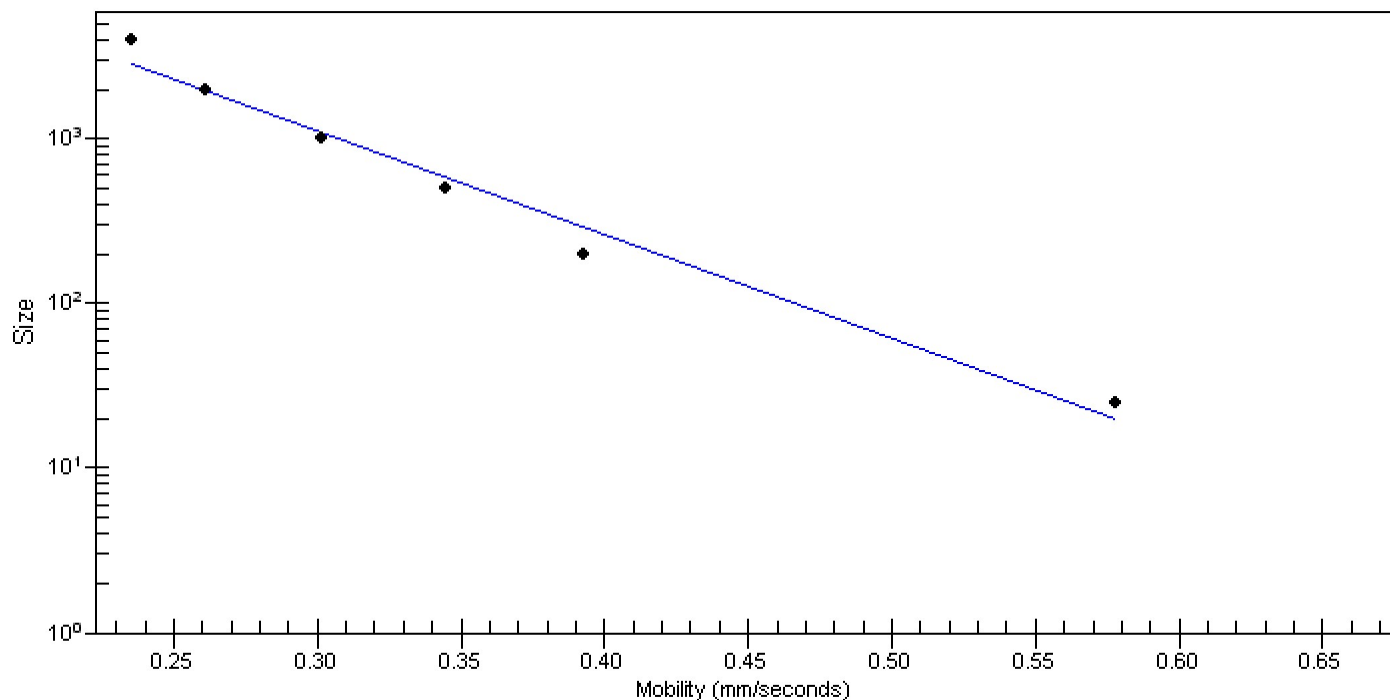


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
Modified: 6/28/2013 11:00:26 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad

Created: 6/28/2013 10:36:36 AM
 Modified: 6/28/2013 11:00:26 AM

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		6/28/2013 11:00:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-28\2013-06-28_001.xad)		Instrument	Run		6/28/2013 10:36:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/28/2013 10:36:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/28/2013 10:36:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/28/2013 10:36:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/28/2013 10:36:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/28/2013 10:36:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/28/2013 10:36:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1