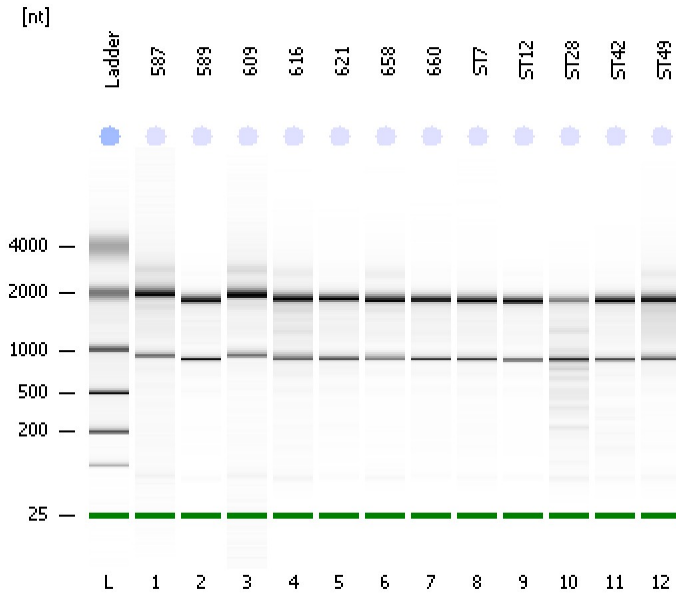


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 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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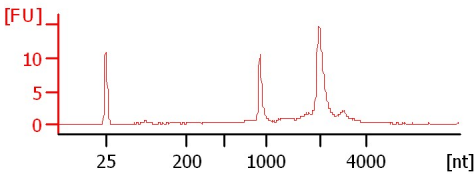
Chip Information:

Chip Lot #:

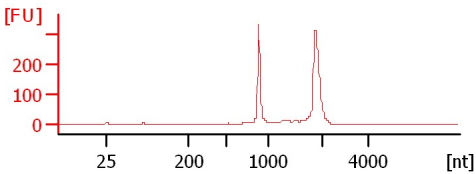
Reagent Kit Lot #:

Chip Comments:

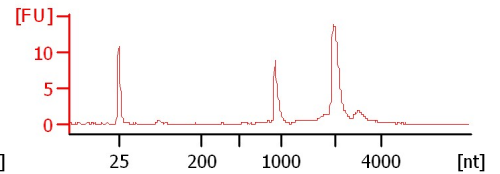
**587**  
RIN: 9.40



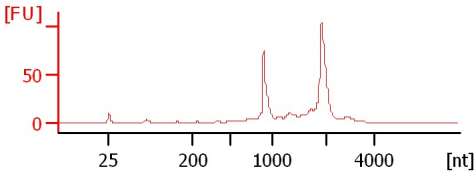
**589**  
RIN: 9.80



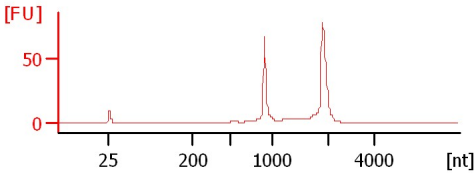
**609**  
RIN: 10



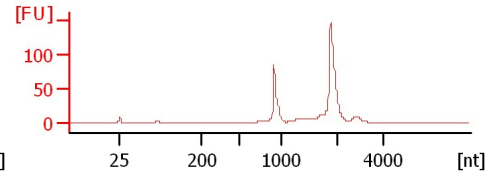
**616**  
RIN: 9.20



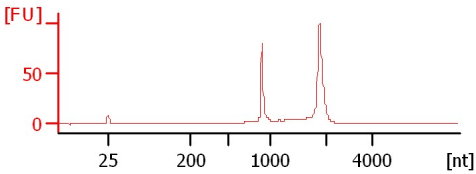
**621**  
RIN: 9.60



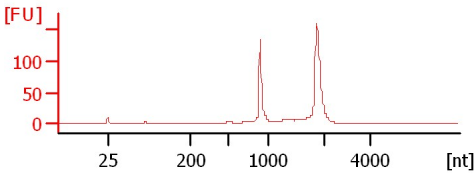
**658**  
RIN: 9.90



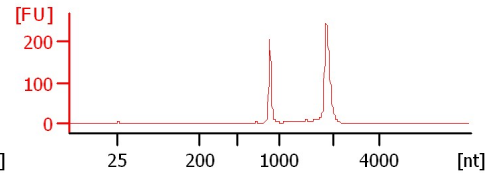
**660**  
RIN: 9.70



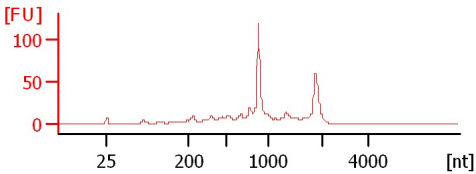
**ST7**  
RIN: 9.80



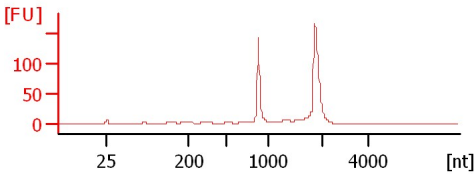
**ST12**  
RIN: 10



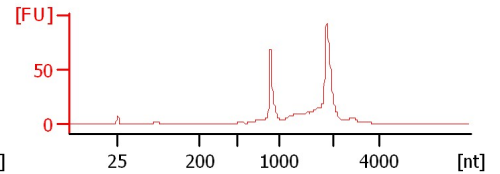
**ST28**  
RIN: 6.80



**ST42**  
RIN: 9



**ST49**  
RIN: 9.40



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
 Modified: 12/2/2015 11:22:35 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
587		✓	RIN: 9.40	
589		✓	RIN: 9.80	
609		✓	RIN:10	
616		✓	RIN: 9.20	
621		✓	RIN: 9.60	
658		✓	RIN: 9.90	
660		✓	RIN: 9.70	
ST7		✓	RIN: 9.80	
ST12		✓	RIN:10	
ST28		✓	RIN: 6.80	
ST42		✓	RIN:9	
ST49		✓	RIN: 9.40	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 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

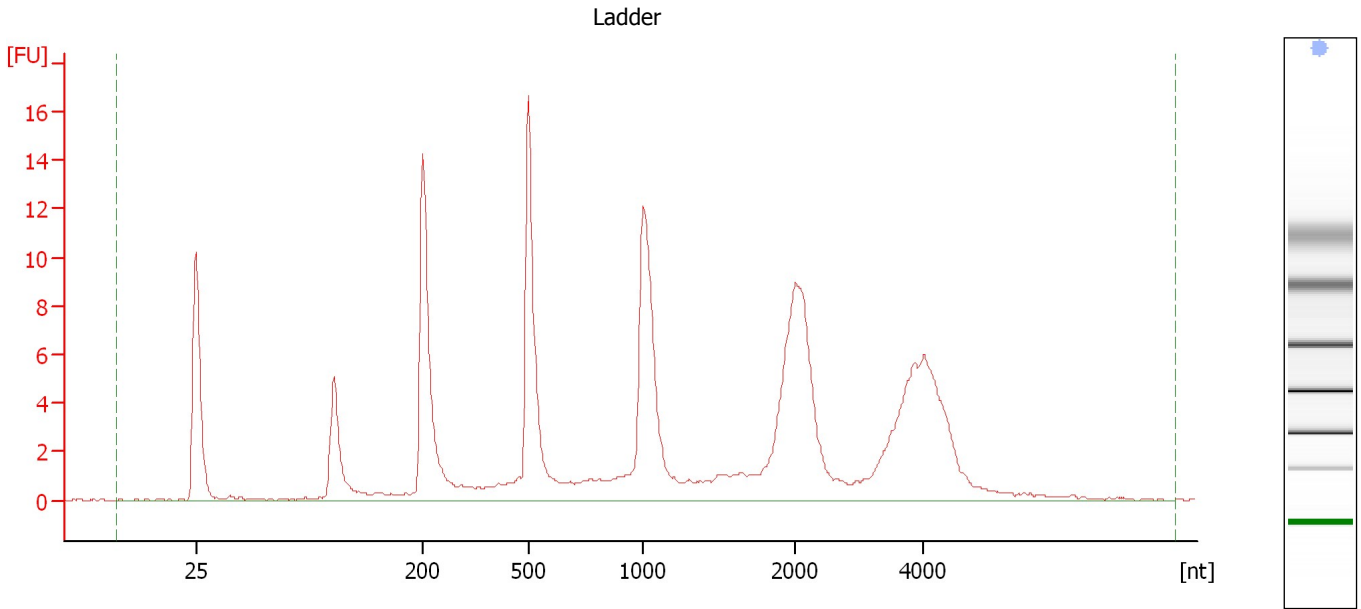
**Ladder**

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\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary**



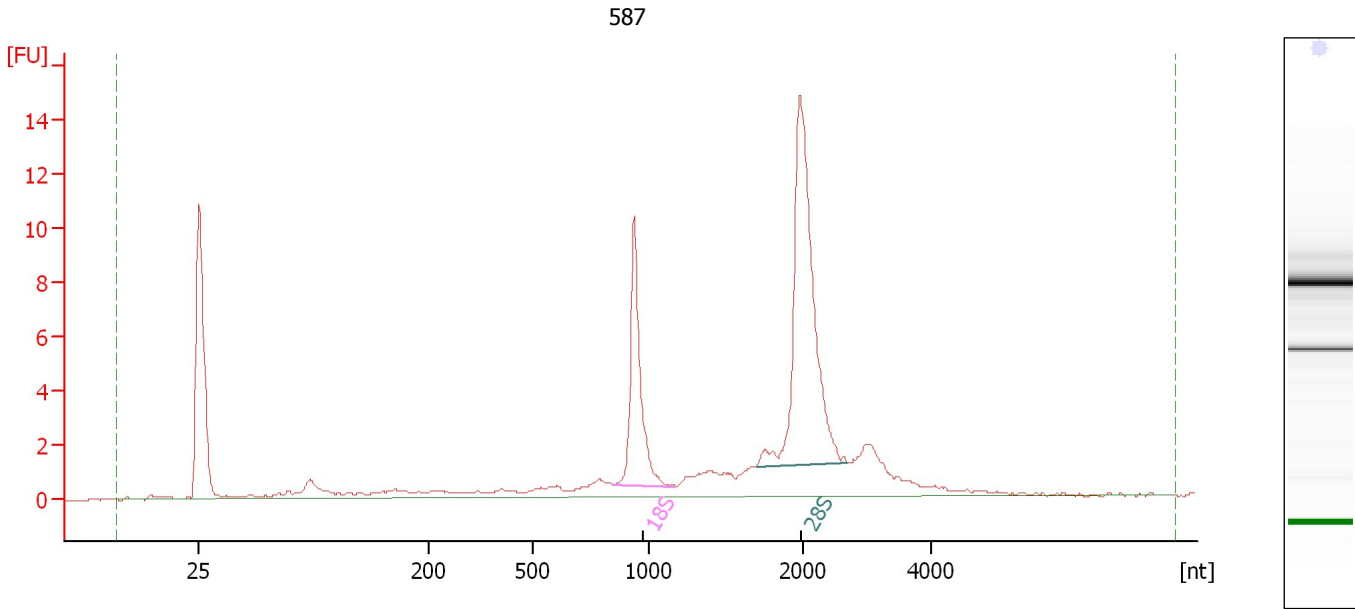
**Overall Results for Ladder**

RNA Area:	159.0	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 587**

RNA Area:	77.5	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	73 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 9.40

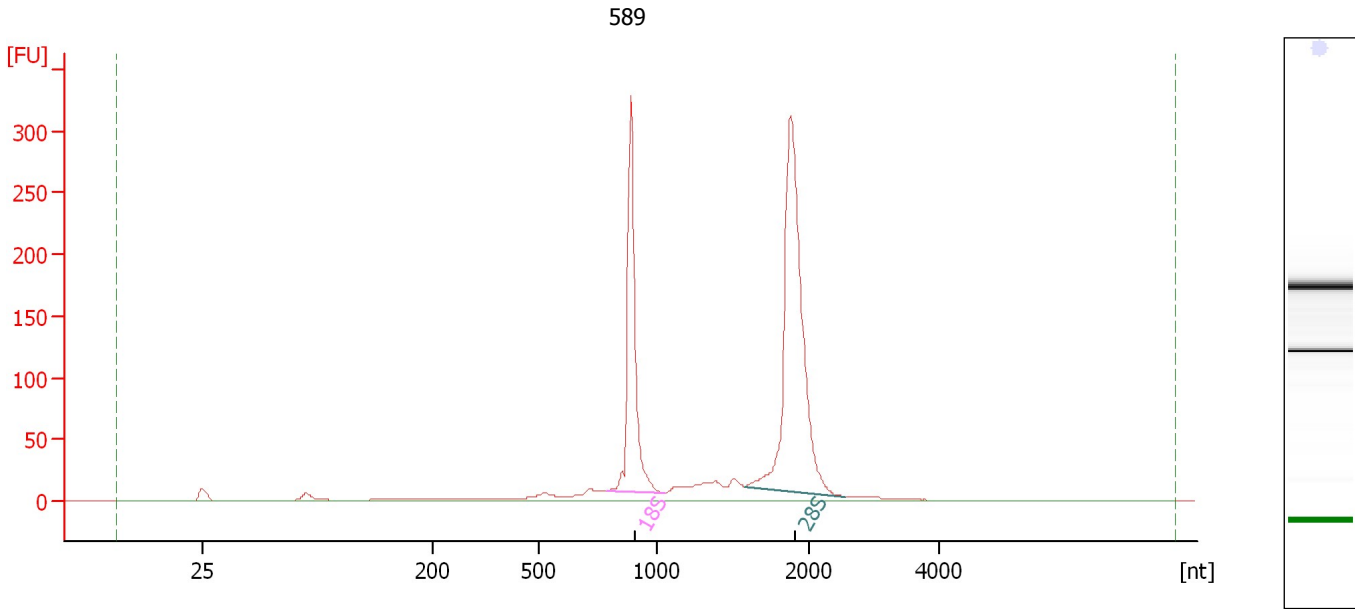
**Fragment table for sample 1 : 587**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	844	1,169	11.9	15.3
28S	1,694	2,701	27.5	35.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 589**

RNA Area:	1,189.6	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	1,123 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.80

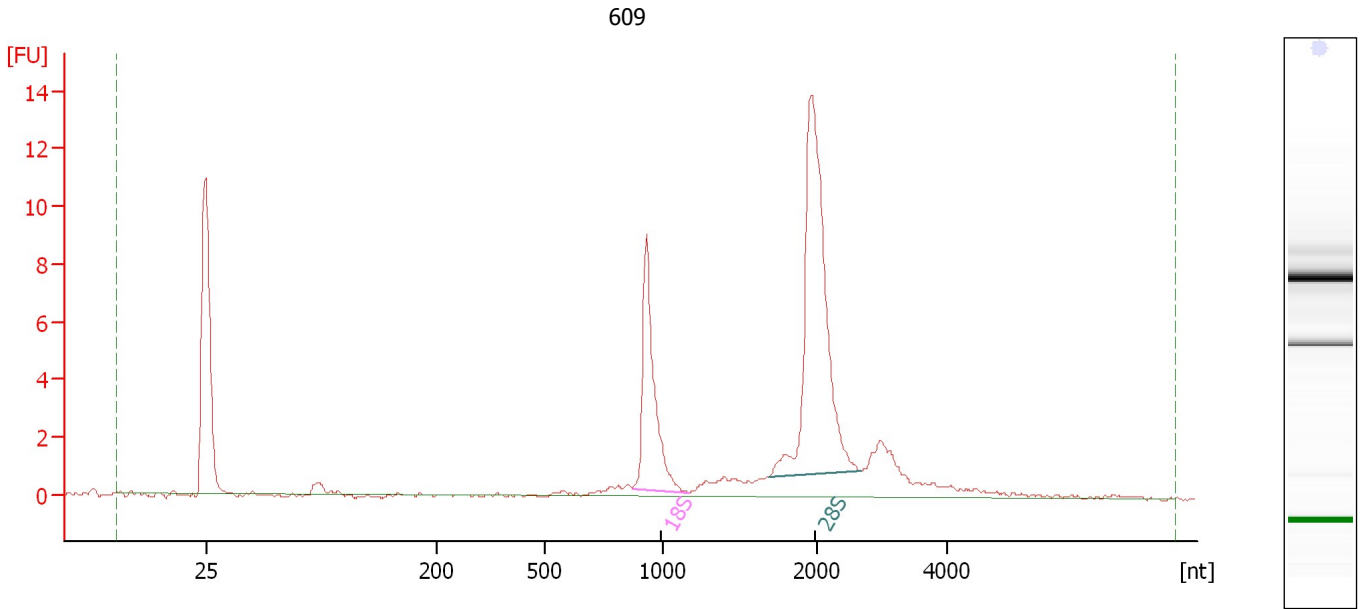
**Fragment table for sample 2 : 589**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	787	1,052	286.8	24.1
28S	1,581	2,555	558.9	47.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 609**

RNA Area:	62.0	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	59 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN:10

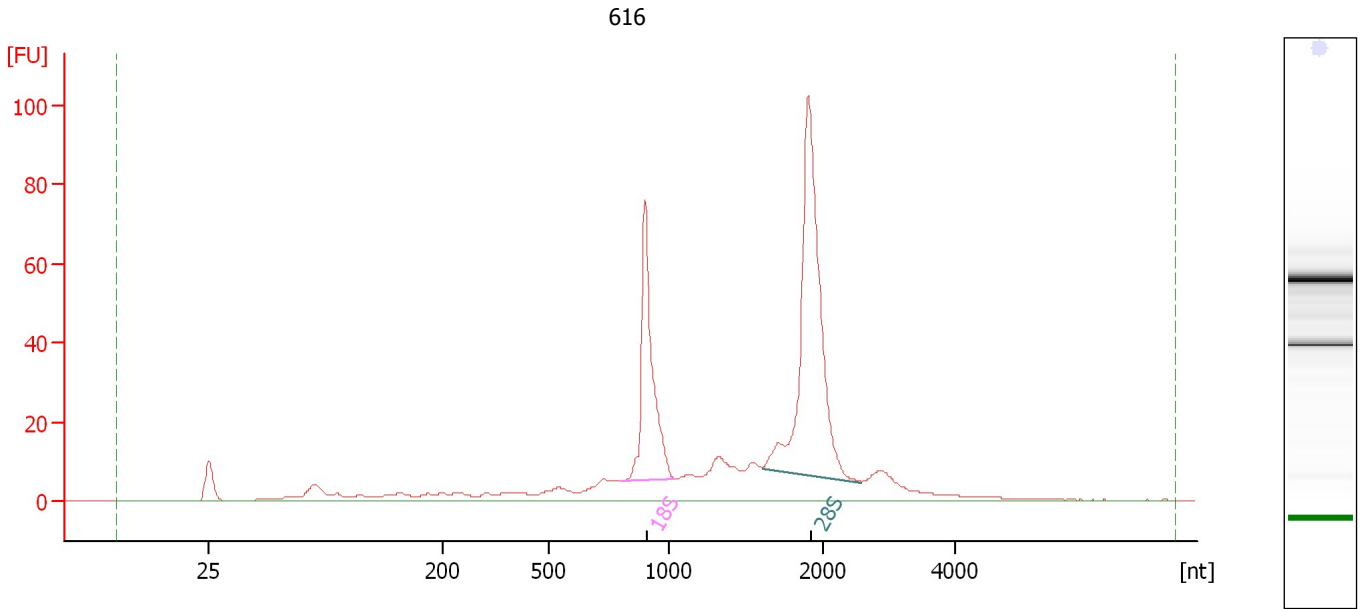
**Fragment table for sample 3 : 609**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	872	1,171	11.7	18.9
28S	1,689	2,672	27.9	45.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 616**

RNA Area: 548.8                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 518 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1                      Result Flagging Label: RIN: 9.20

**Fragment table for sample 4 : 616**

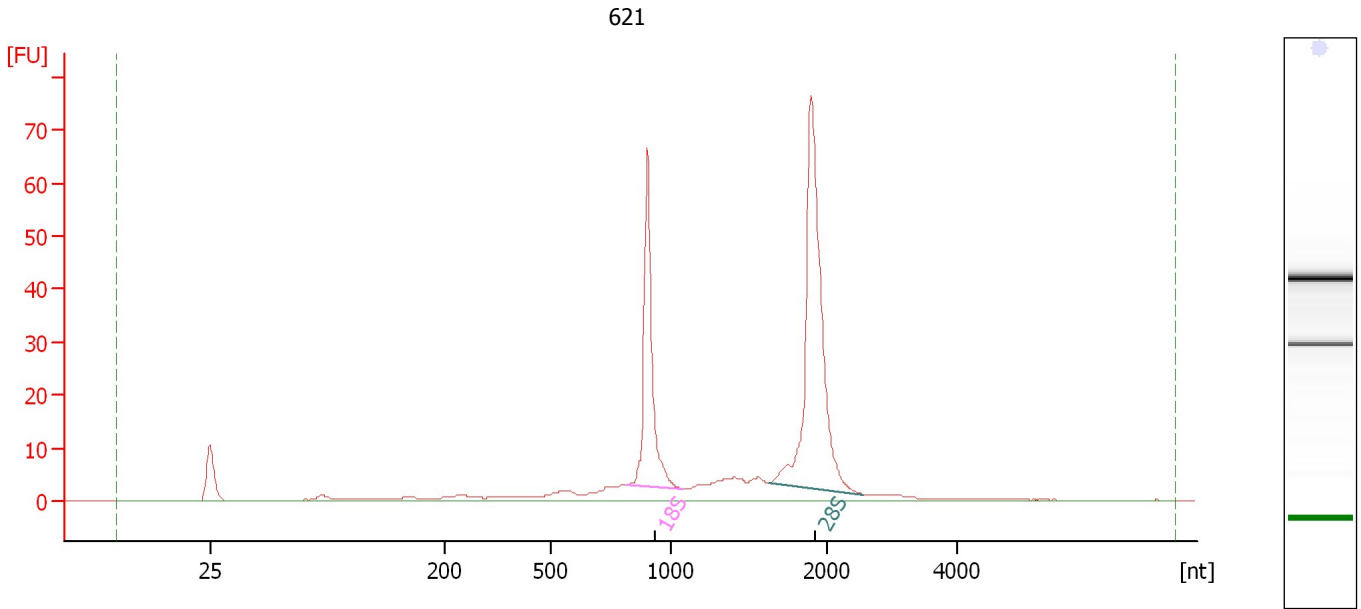
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	797	1,049	88.7	16.2
28S	1,605	2,576	185.0	33.7



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 621**

RNA Area:	289.2	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	273 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.60

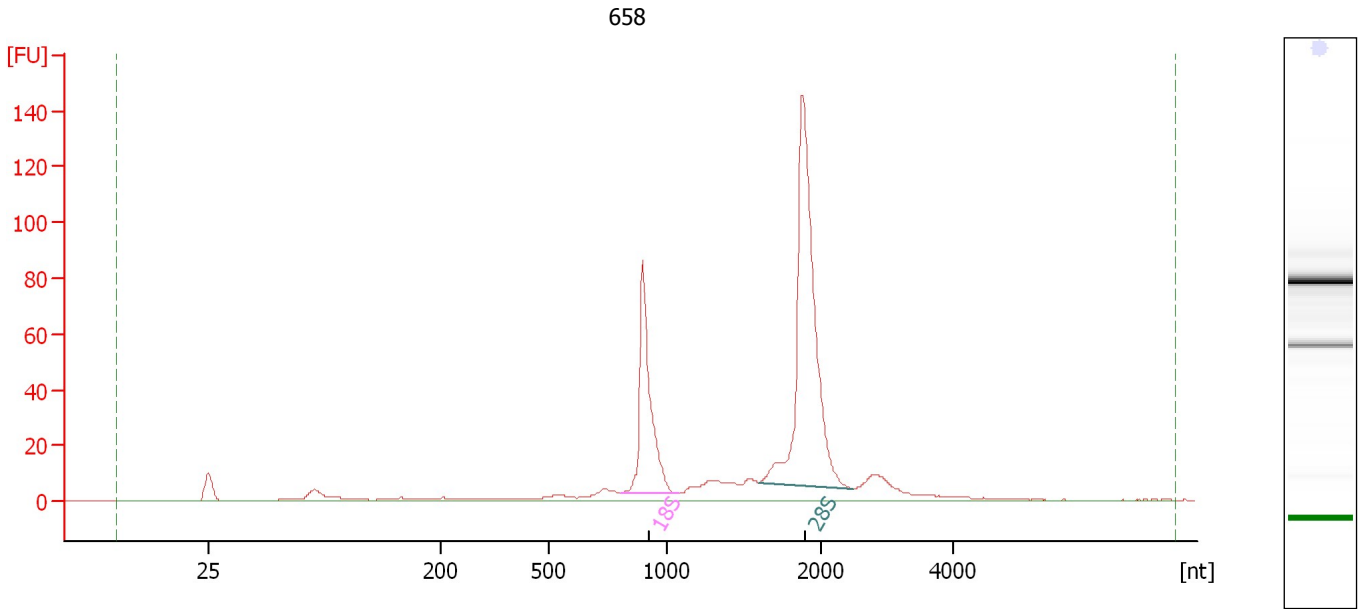
**Fragment table for sample 5 : 621**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	821	1,077	59.5	20.6
28S	1,632	2,572	121.5	42.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 658**

RNA Area: 552.6                      RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 521 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.4                      Result Flagging Label: RIN: 9.90

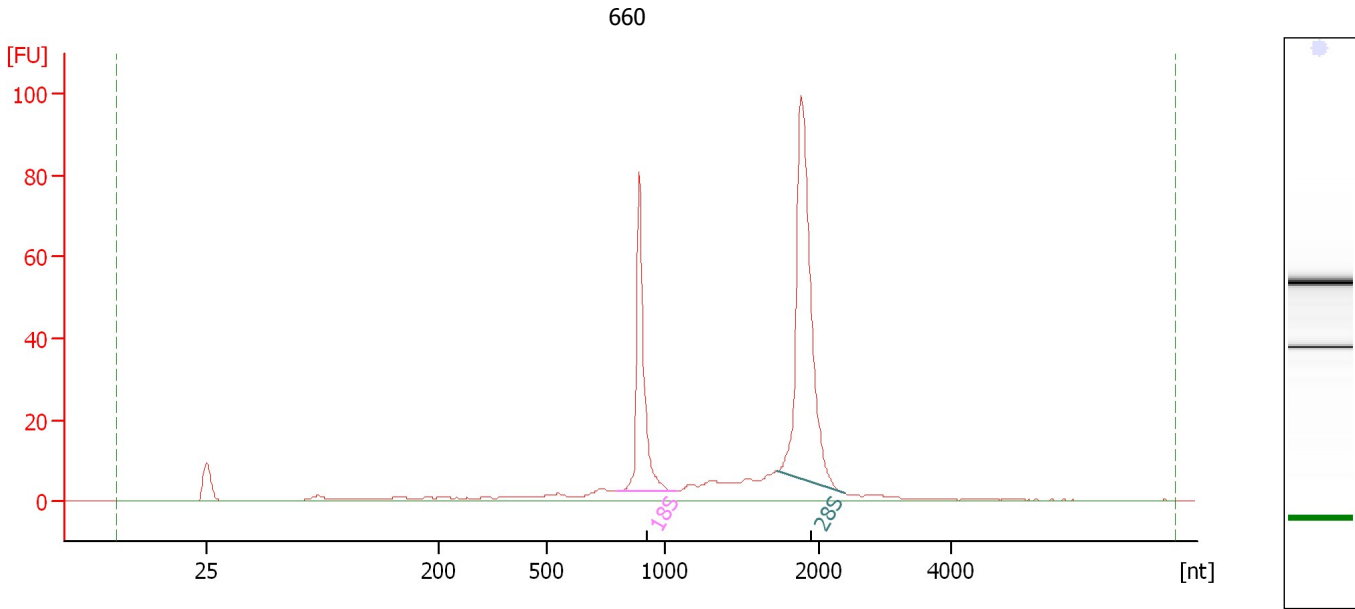
**Fragment table for sample 6 : 658**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	810	1,083	102.8	18.6
28S	1,598	2,483	246.1	44.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 660**

RNA Area:	344.5	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	325 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.70

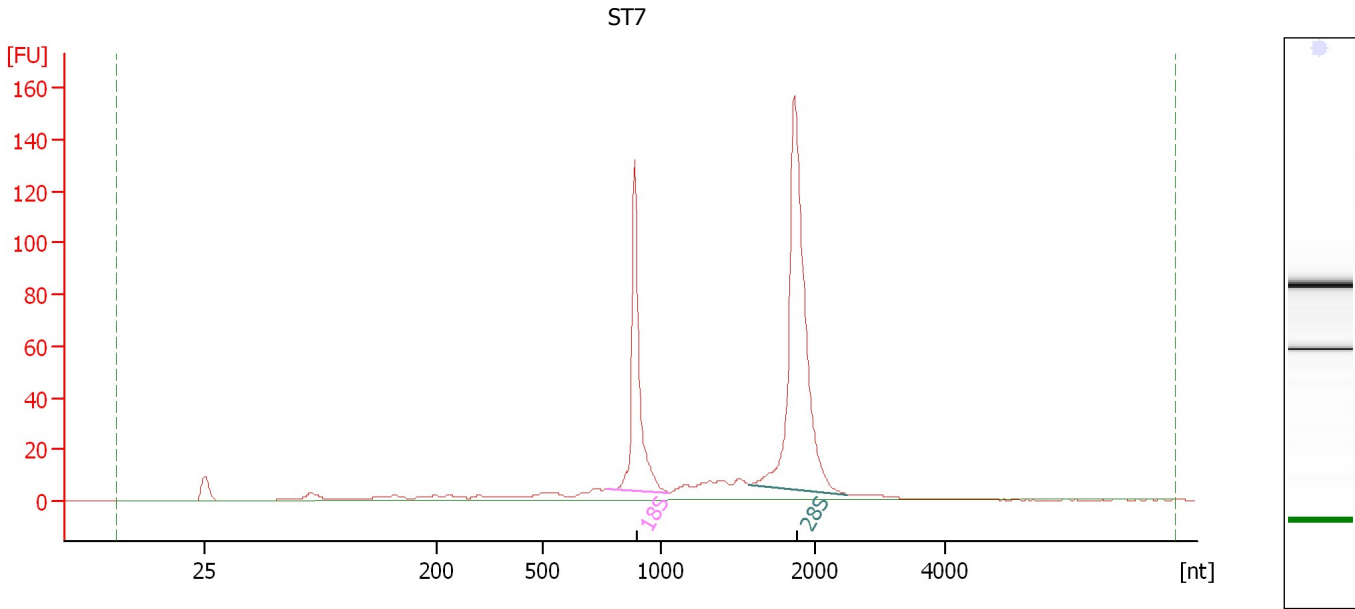
**Fragment table for sample 7 : 660**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	795	1,082	70.4	20.4
28S	1,730	2,406	141.1	40.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : ST7**

RNA Area:	575.0	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	543 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.80

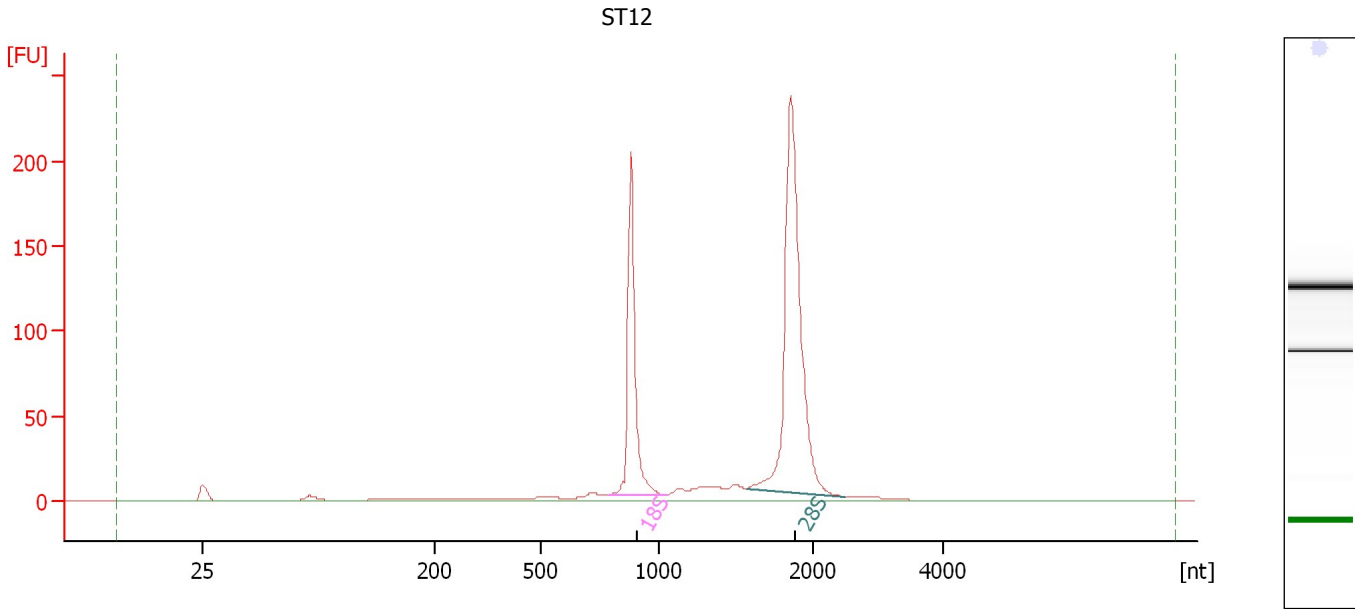
**Fragment table for sample 8 : ST7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	771	1,060	123.1	21.4
28S	1,573	2,513	253.5	44.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : ST12**

RNA Area:	738.1	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	696 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN:10

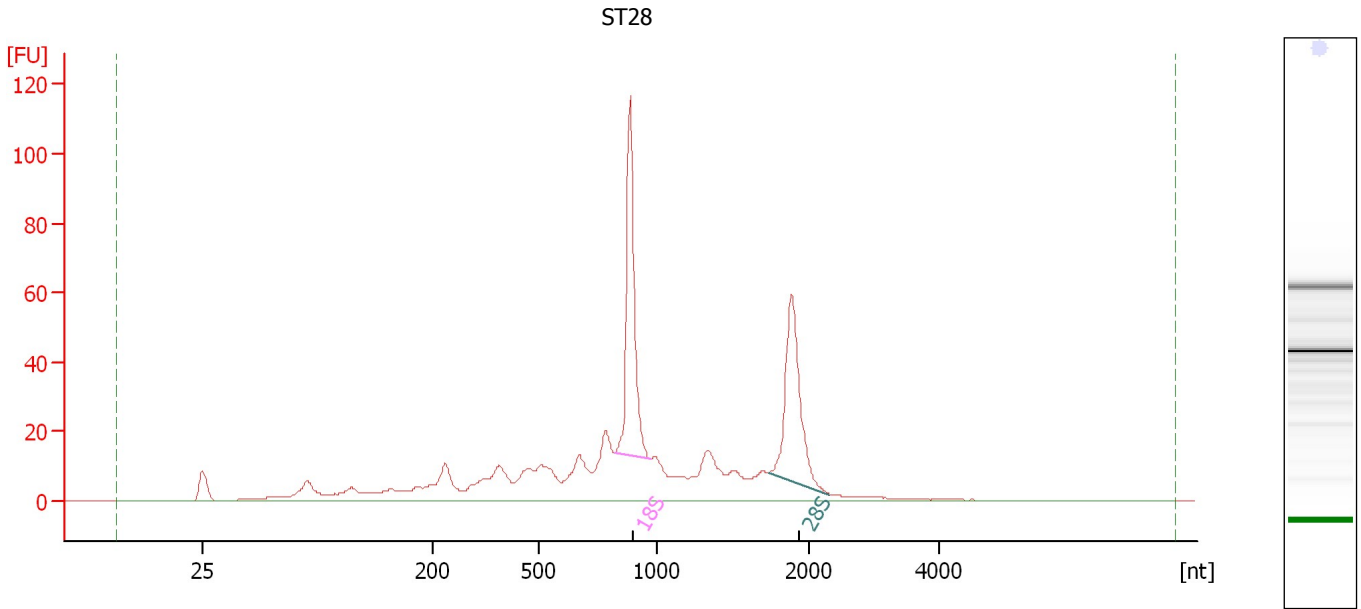
**Fragment table for sample 9 : ST12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	788	1,053	171.1	23.2
28S	1,573	2,501	375.5	50.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : ST28**

RNA Area:	616.9	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	582 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 6.80

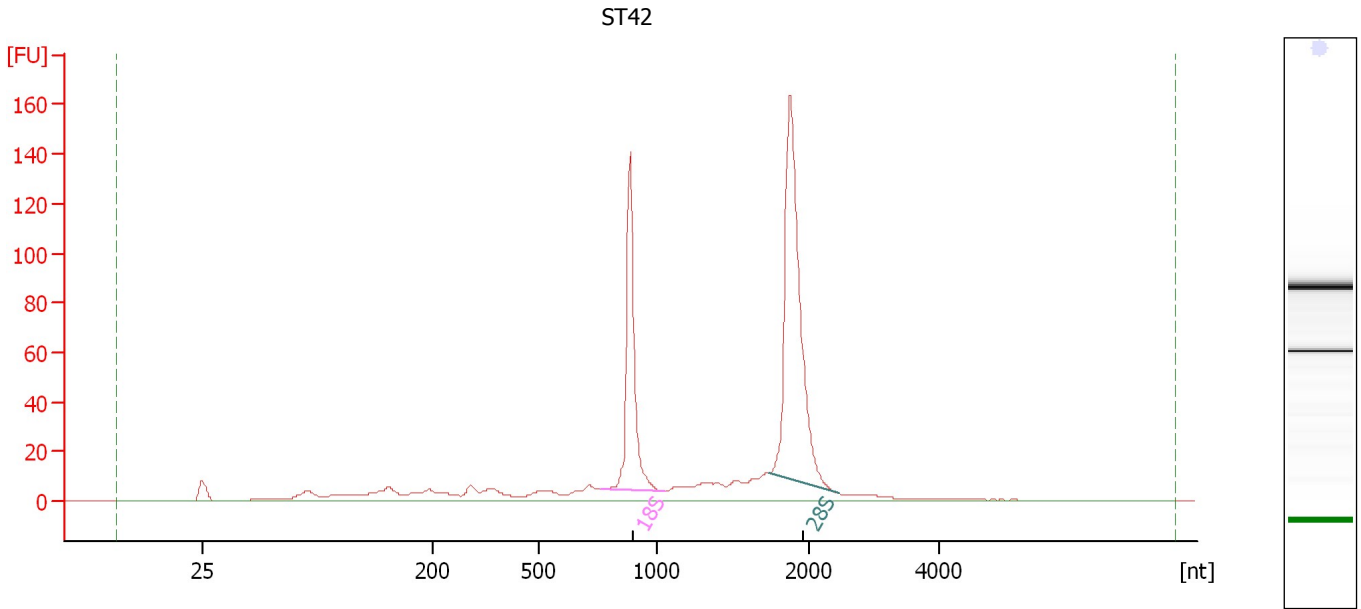
**Fragment table for sample 10 : ST28**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	824	975	94.1	15.3
28S	1,734	2,308	81.6	13.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : ST42**

RNA Area:	668.9	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	631 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:9

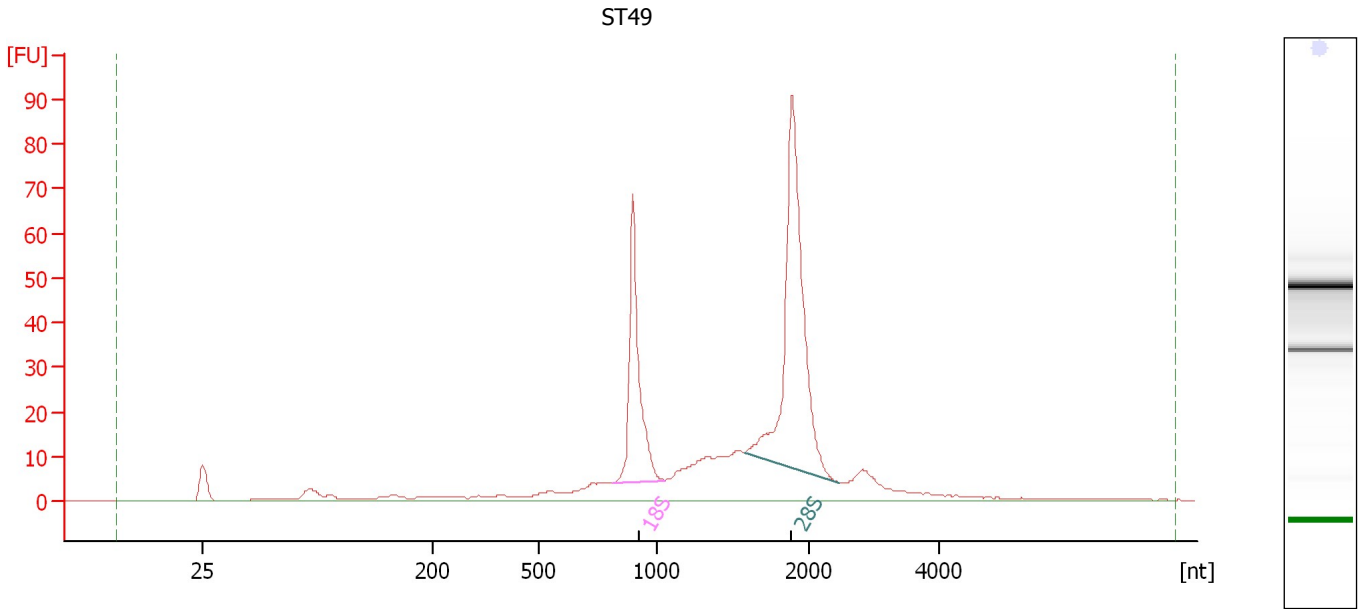
**Fragment table for sample 11 : ST42**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	760	1,052	124.3	18.6
28S	1,740	2,456	240.9	36.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : ST49**

RNA Area:	476.3	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	449 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.40

**Fragment table for sample 12 : ST49**

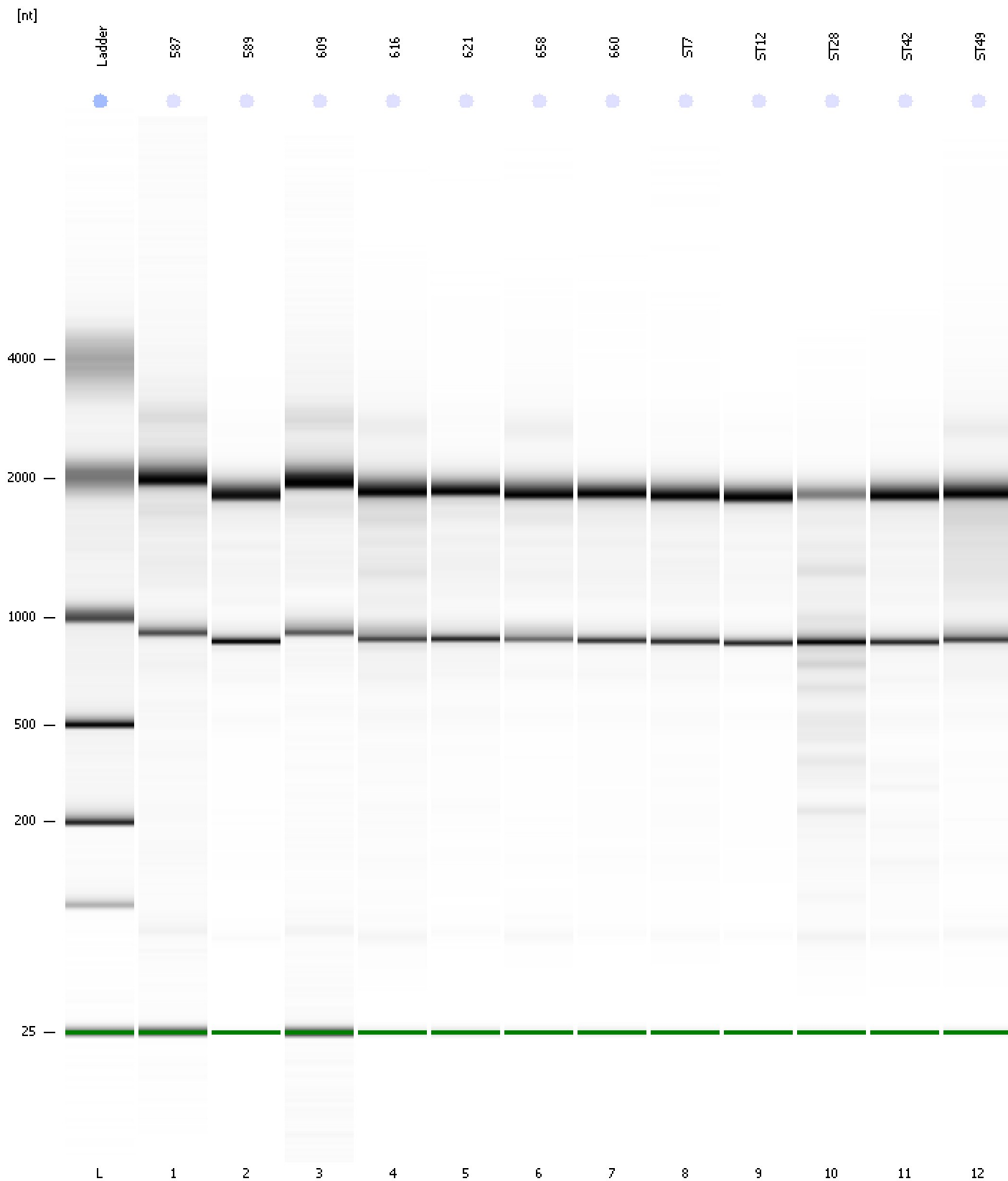
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	815	1,052	73.9	15.5
28S	1,574	2,440	154.8	32.5



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
Modified: 12/2/2015 11:22:35 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_003.xad

Created: 12/2/2015 10:59:28 AM  
 Modified: 12/2/2015 11:22:35 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		12/2/2015 11:22:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-02\2015-12-02_003.xad)		Instrument	Run		12/2/2015 10:59:34 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2015 10:59:34 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2015 10:59:34 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2015 10:59:34 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2015 10:59:34 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2015 10:59:34 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2015 10:59:34 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1