

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

Created: 11/12/2015 1:21:47 PM  
Modified: 11/12/2015 1:44:41 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)

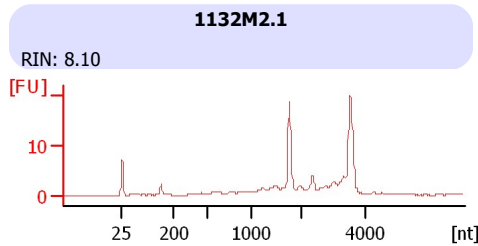
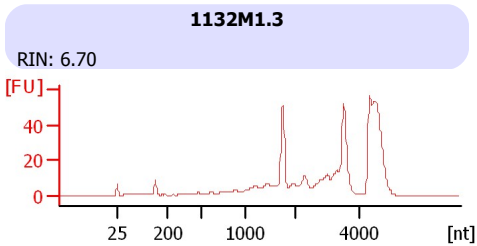
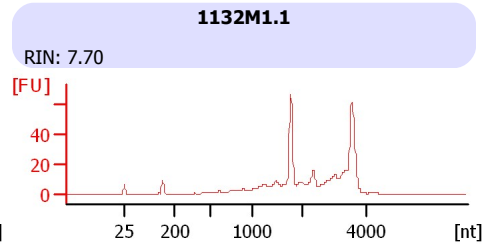
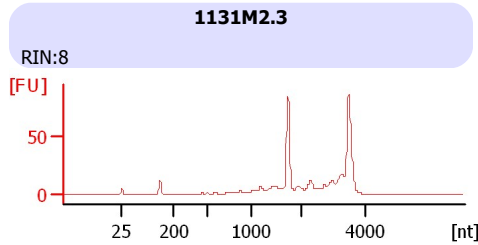
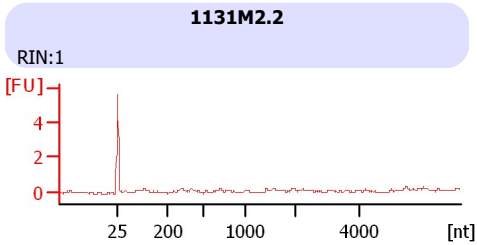
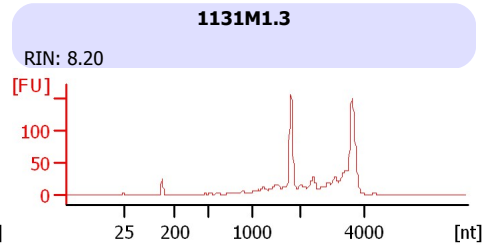
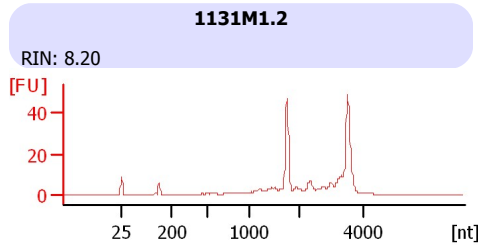
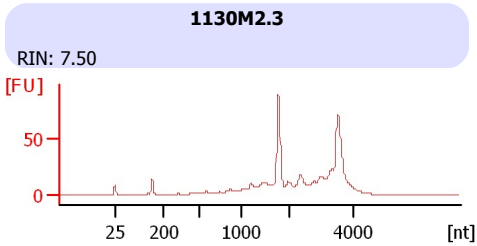
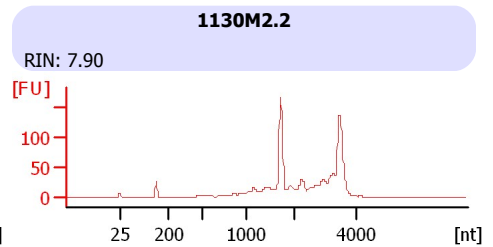
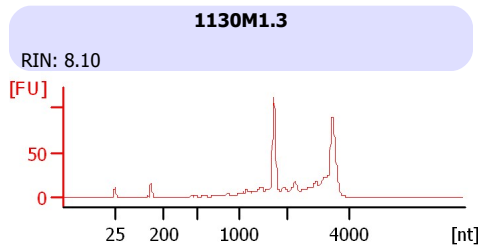
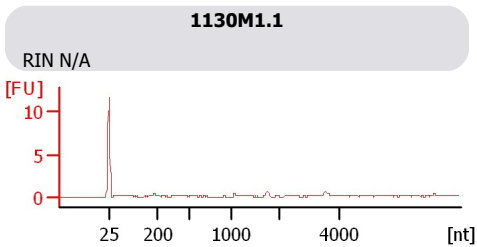
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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

Sample Name	Sample Comment	Status	Result Label	Result Color
1130M1.1		✓	RIN N/A	
1130M1.3		✓	RIN: 8.10	
1130M2.2		✓	RIN: 7.90	
1130M2.3		✓	RIN: 7.50	
1131M1.2		✓	RIN: 8.20	
1131M1.3		✓	RIN: 8.20	
1131M2.2		✓	RIN:1	
1131M2.3		✓	RIN:8	
1132M1.1		✓	RIN: 7.70	
1132M1.3		✓	RIN: 6.70	
1132M2.1		✓	RIN: 8.10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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## 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/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ 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

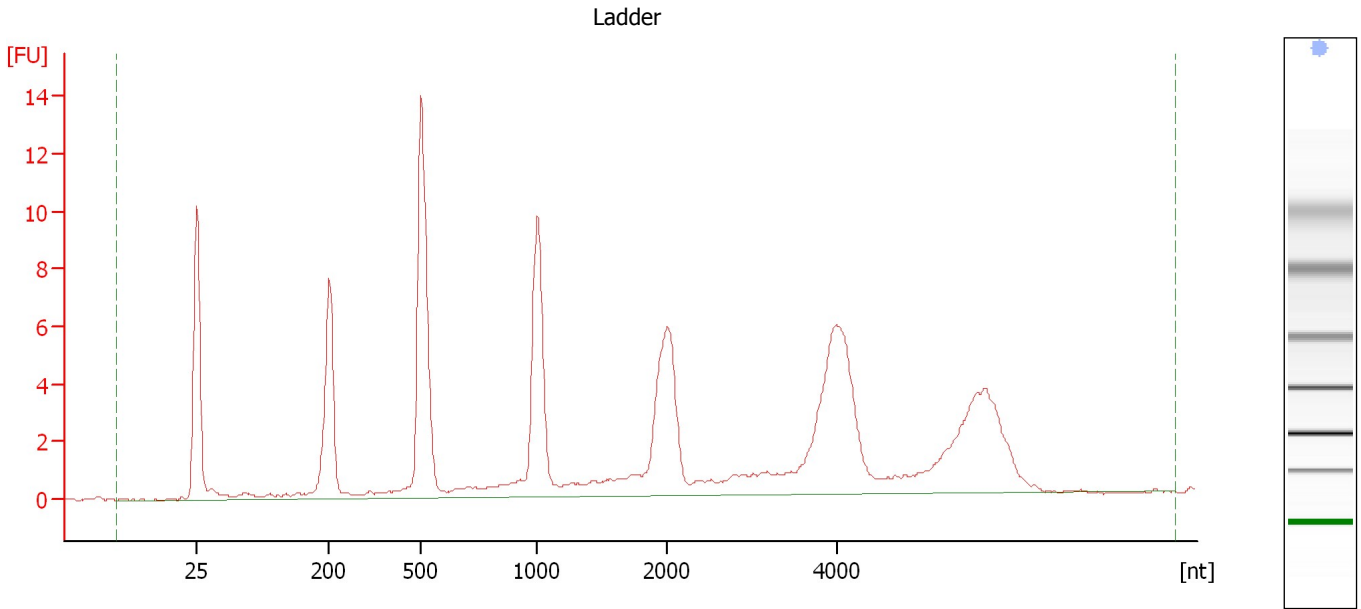
### Ladder

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

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**Electropherogram Summary**



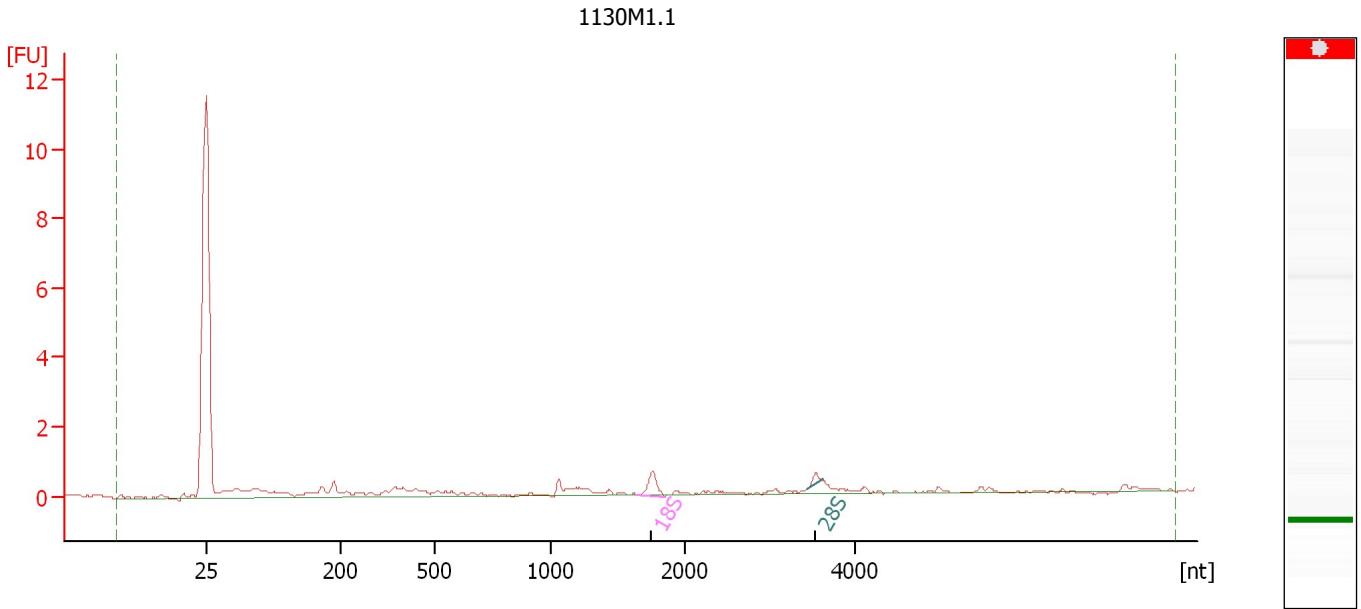
**Overall Results for Ladder**

RNA Area:	119.0	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1130M1.1**

RNA Area:	11.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	99 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN N/A

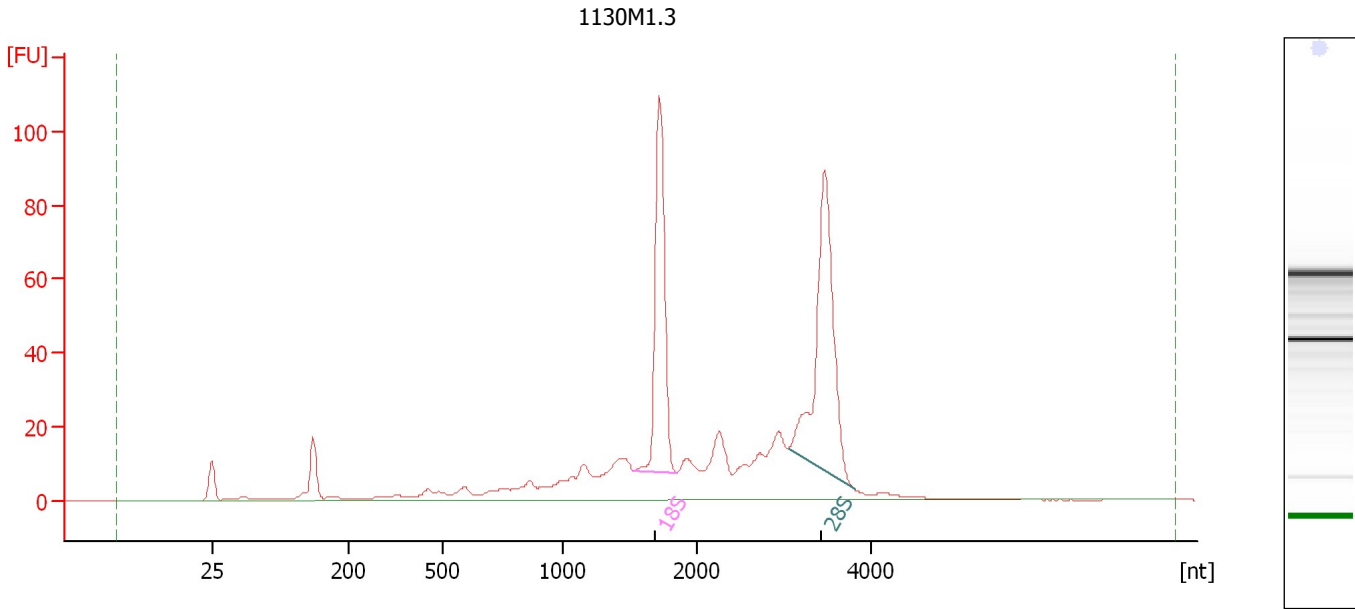
**Fragment table for sample 1 : 1130M1.1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	1,858	0.8	6.5
28S	3,436	3,610	0.2	1.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1130M1.3**

RNA Area:	619.3	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	5,205 pg/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]:	1.3	Result Flagging Label:	RIN: 8.10

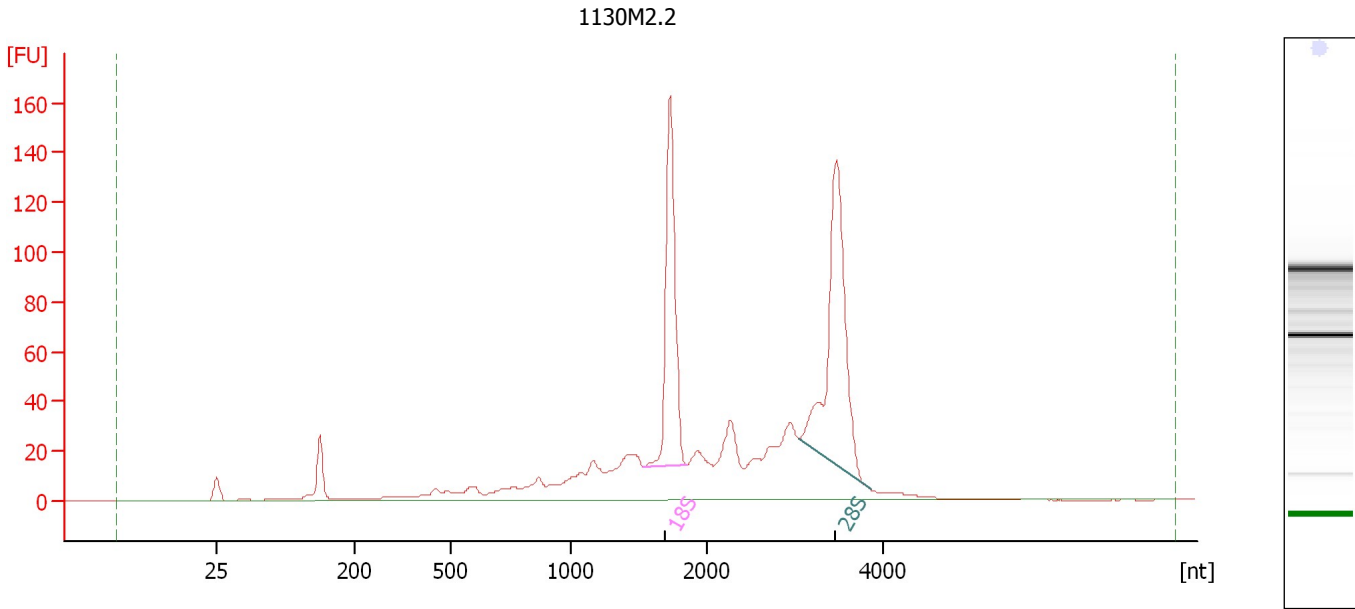
**Fragment table for sample 2 : 1130M1.3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,528	1,854	111.7	18.0
28S	3,053	3,815	144.1	23.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1130M2.2**

RNA Area:	999.0	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	8,395 pg/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]:	1.3	Result Flagging Label:	RIN: 7.90

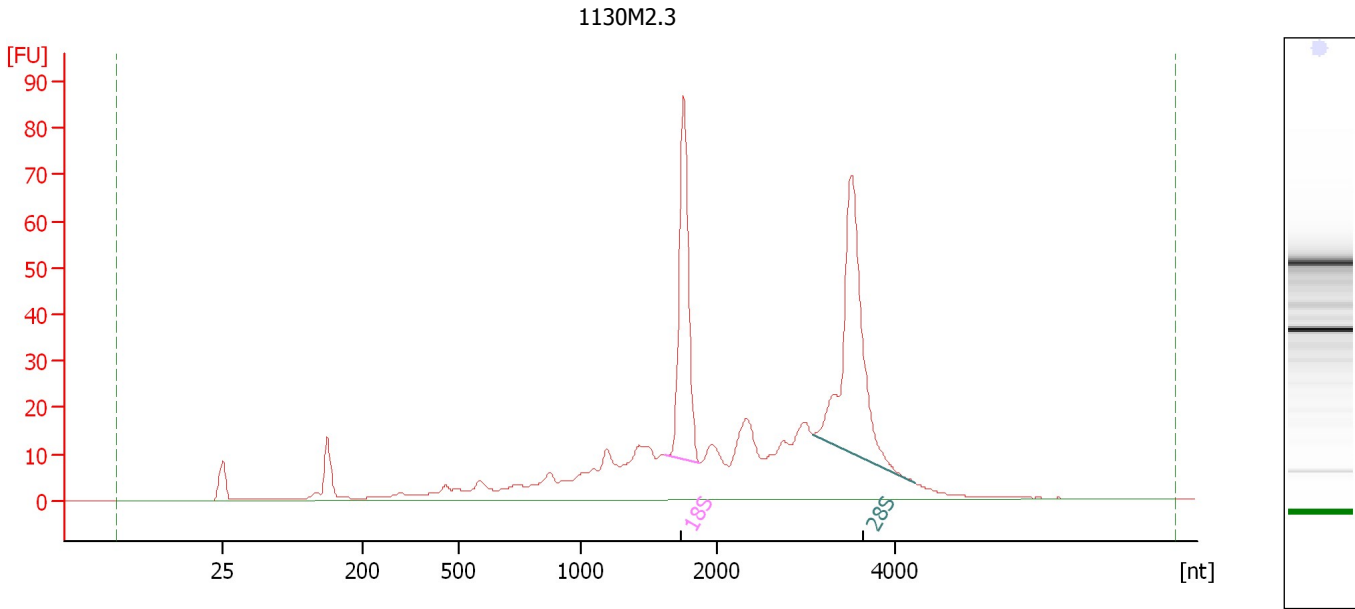
**Fragment table for sample 3 : 1130M2.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,535	1,850	166.5	16.7
28S	3,058	3,860	213.4	21.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

Created: 11/12/2015 1:21:47 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1130M2.3**

RNA Area:	607.2	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	5,103 pg/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]:	1.3	Result Flagging Label:	RIN: 7.50

**Fragment table for sample 4 : 1130M2.3**

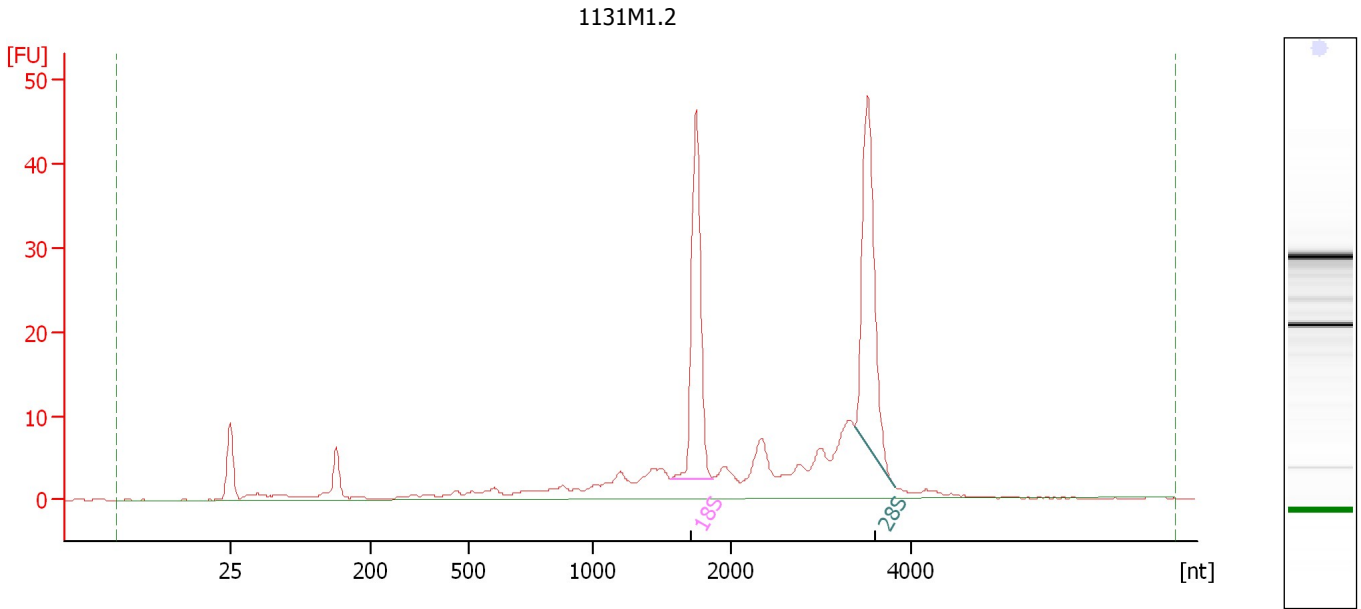
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,869	87.0	14.3
28S	3,086	4,230	113.1	18.6



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 1131M1.2**

RNA Area: 242.0                      RNA Integrity Number (RIN): 8.2 (B.02.08)  
RNA Concentration: 2,034 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN: 8.20

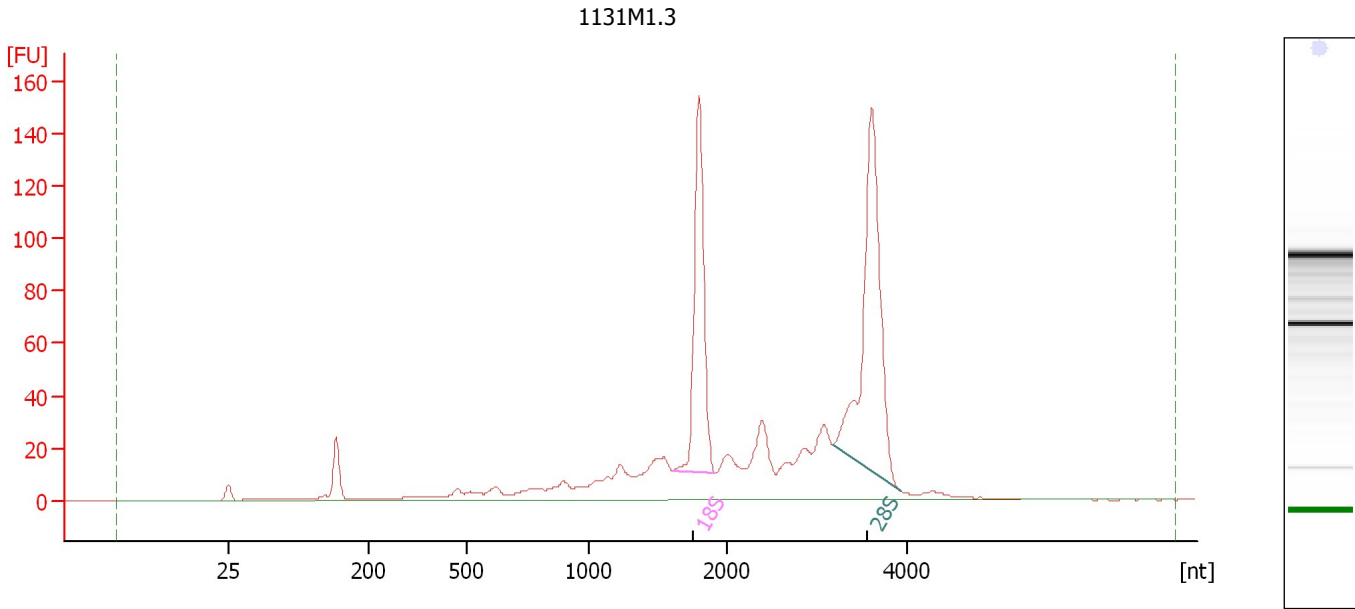
**Fragment table for sample 5 : 1131M1.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,859	45.6	18.8
28S	3,360	3,811	49.2	20.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

Created: 11/12/2015 1:21:47 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 1131M1.3**

RNA Area:	936.2	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	7,867 pg/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]:	1.4	Result Flagging Label:	RIN: 8.20

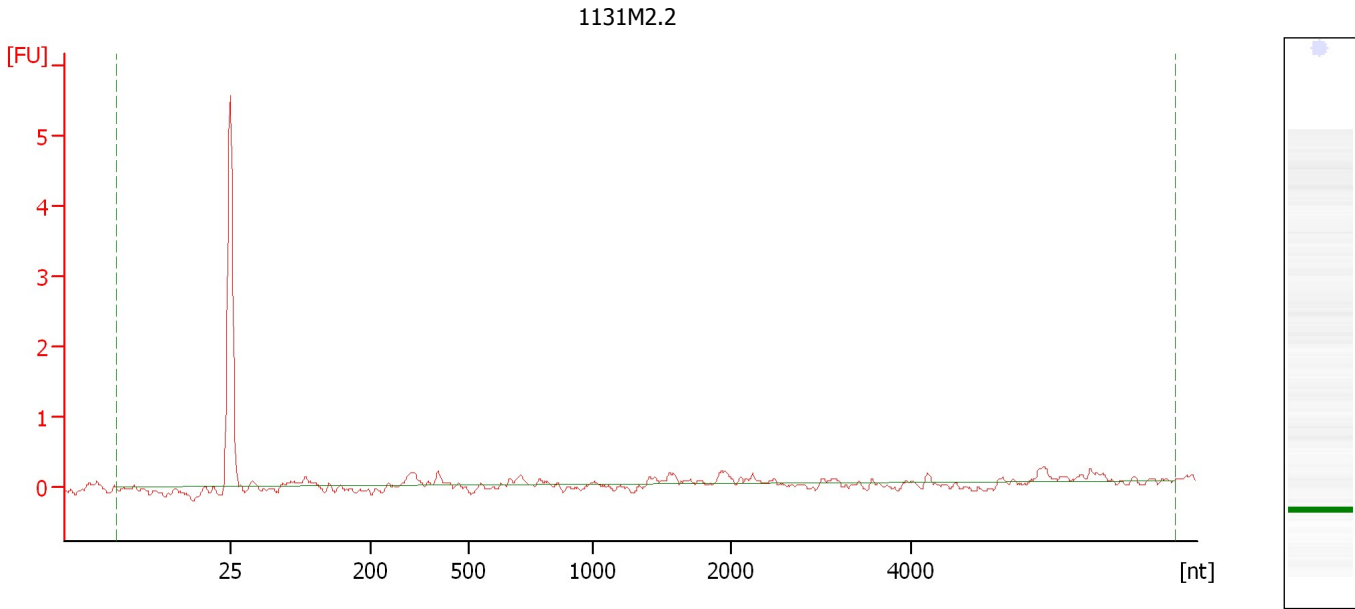
**Fragment table for sample 6 : 1131M1.3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,603	1,911	161.2	17.2
28S	3,174	3,924	231.8	24.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

Created: 11/12/2015 1:21:47 PM  
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**Electropherogram Summary Continued ...**



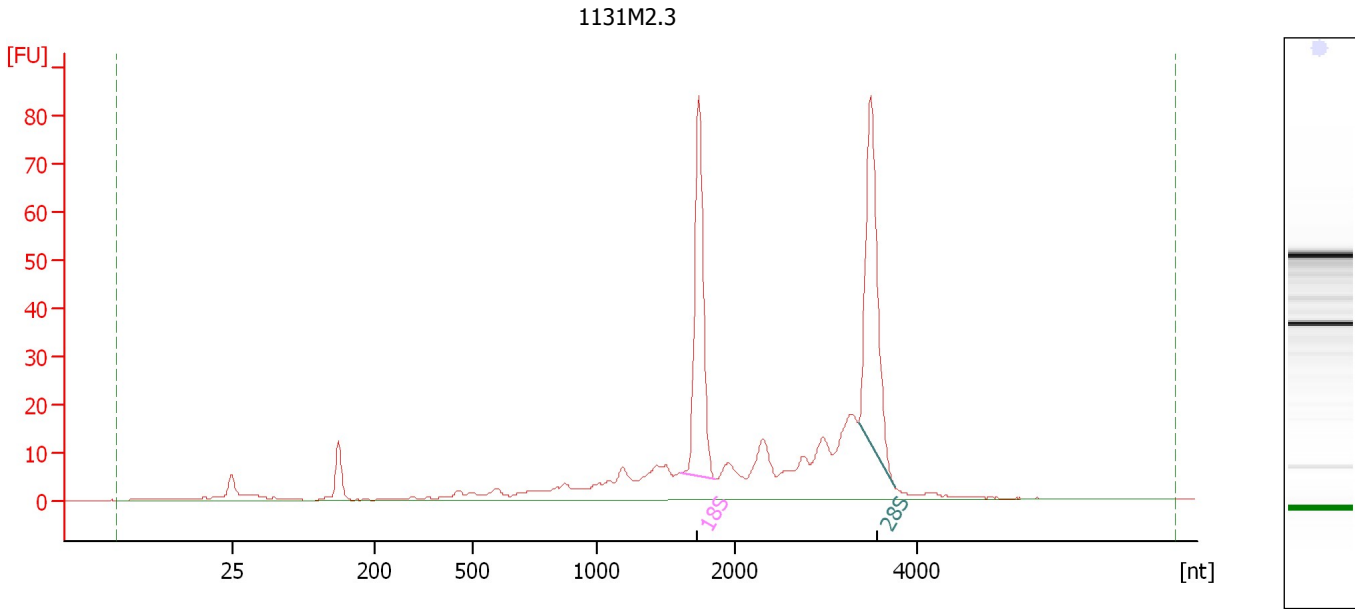
**Overall Results for sample 7 : 1131M2.2**

RNA Area:	2.3	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	19 pg/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]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

Created: 11/12/2015 1:21:47 PM  
Modified: 11/12/2015 1:44:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 1131M2.3**

RNA Area:	447.0	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	3,756 pg/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]:	1.0	Result Flagging Label:	RIN:8

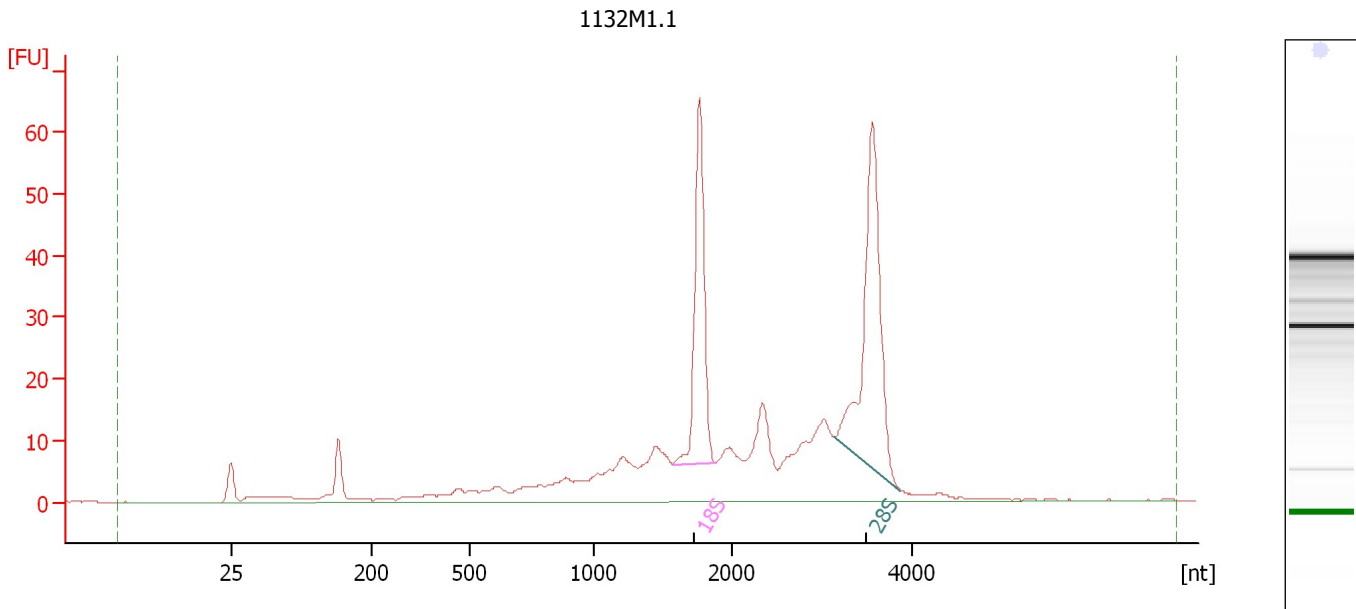
**Fragment table for sample 8 : 1131M2.3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	1,852	80.5	18.0
28S	3,356	3,758	83.3	18.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

Created: 11/12/2015 1:21:47 PM  
Modified: 11/12/2015 1:44:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 1132M1.1**

RNA Area:	445.4	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	3,743 pg/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]:	1.4	Result Flagging Label:	RIN: 7.70

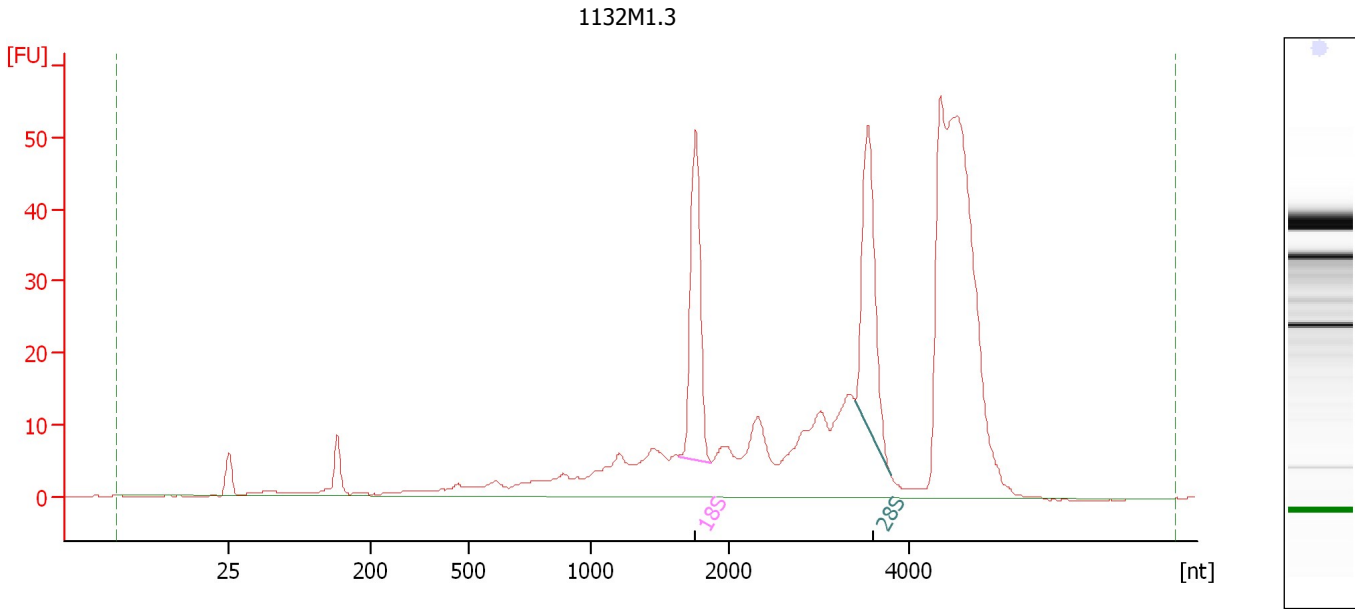
**Fragment table for sample 9 : 1132M1.1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,574	1,874	65.1	14.6
28S	3,123	3,859	90.0	20.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

Created: 11/12/2015 1:21:47 PM  
Modified: 11/12/2015 1:44:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 1132M1.3**

RNA Area: 558.3 RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 4,692 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 6.70

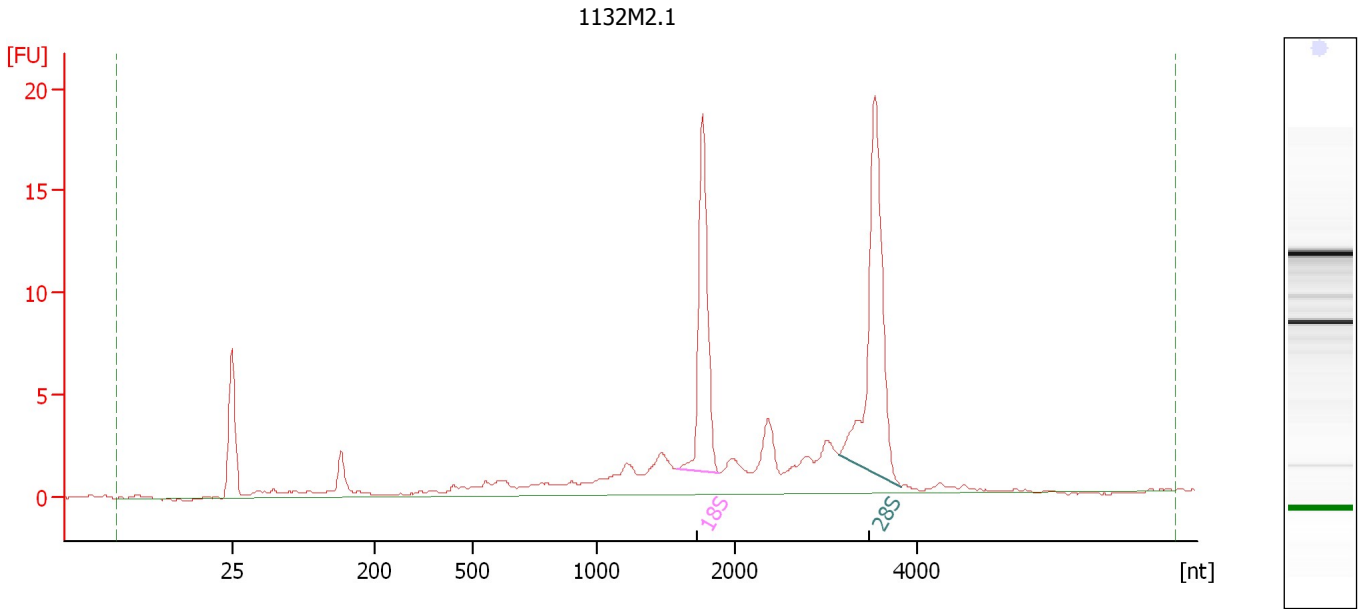
**Fragment table for sample 10 : 1132M1.3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,866	51.9	9.3
28S	3,398	3,790	52.0	9.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

Created: 11/12/2015 1:21:47 PM  
Modified: 11/12/2015 1:44:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 1132M2.1**

RNA Area: 106.4                      RNA Integrity Number (RIN): 8.1 (B.02.08)  
RNA Concentration: 894 µg/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4                      Result Flagging Label: RIN: 8.10

**Fragment table for sample 11 : 1132M2.1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,883	18.3	17.2
28S	3,131	3,817	25.8	24.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

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**Gel Image**

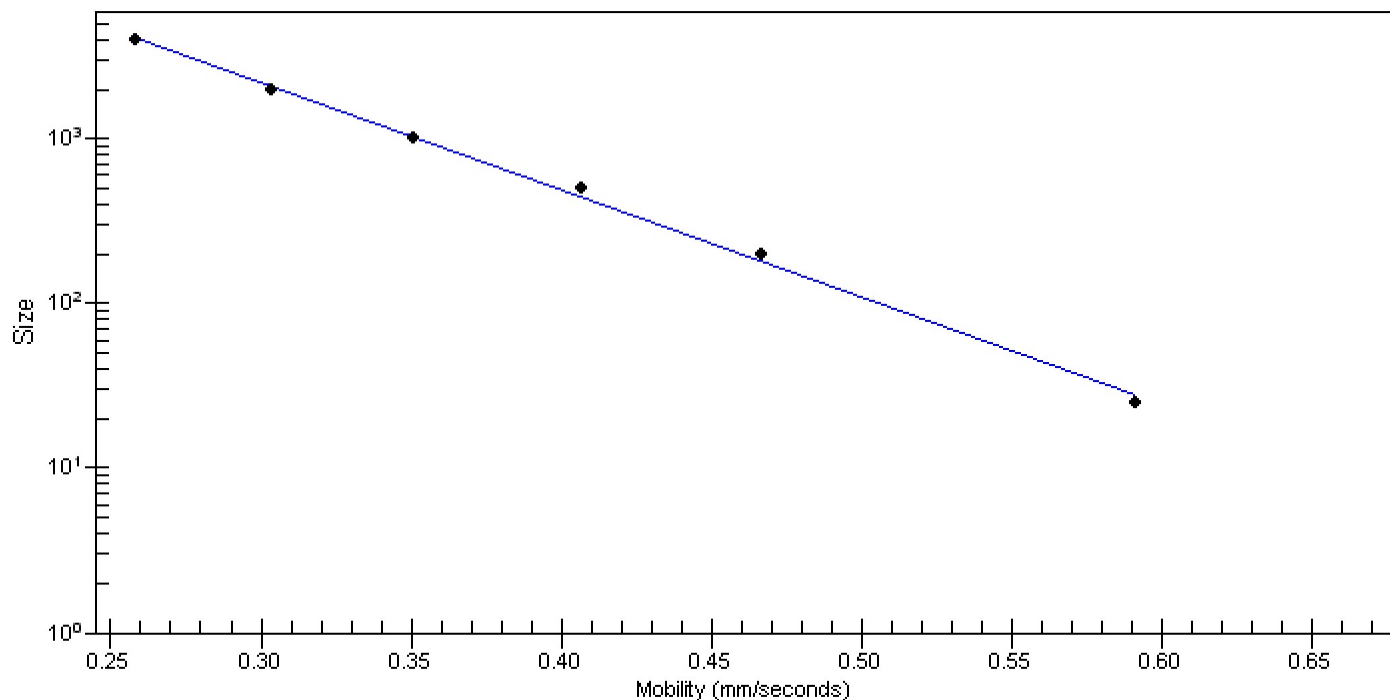


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12\_003.xad

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**Curves**

**Standard Curve**



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**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		11/12/2015 1:44:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-12\2015-11-12_003.xad)		Instrument	Run		11/12/2015 1:21:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/12/2015 1:21:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/12/2015 1:21:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/12/2015 1:21:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/12/2015 1:21:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/12/2015 1:21:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/12/2015 1:21:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1