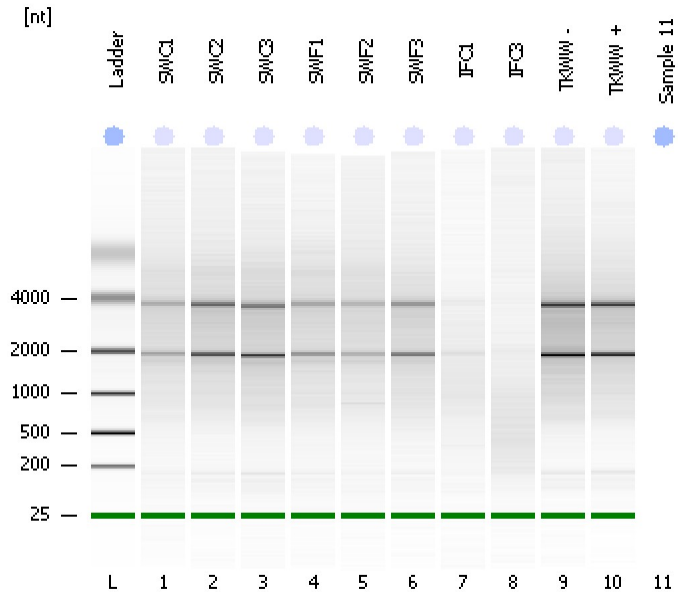


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

Electrophoresis File Run Summary



Instrument Information:

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

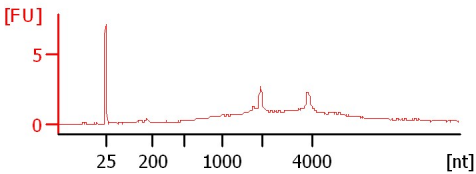
Assay Information:

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

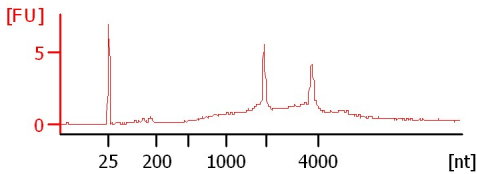
Chip Information:

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

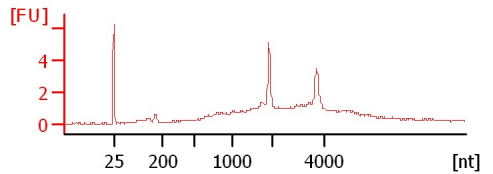
**SWC1**  
Poly A mRNA (BIOO kit)  
RIN: 5.10



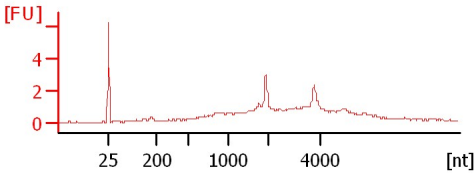
**SWC2**  
Poly A mRNA (BIOO kit)  
RIN: 6.30



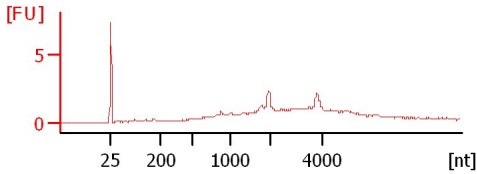
**SWC3**  
Poly A mRNA (BIOO kit)  
RIN: 6



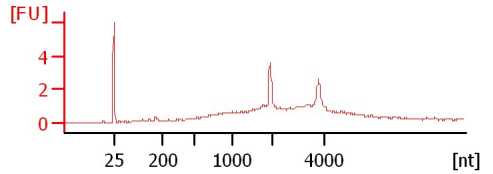
**SWF1**  
Poly A mRNA (BIOO kit)  
RIN: 5.50



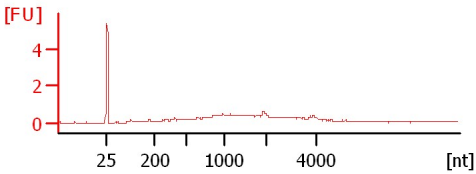
**SWF2**  
Poly A mRNA (BIOO kit)  
RIN: 4.80



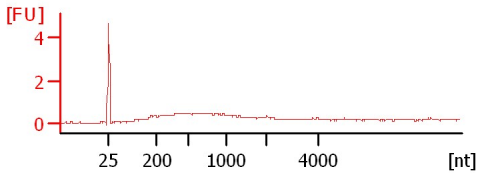
**SWF3**  
Poly A mRNA (BIOO kit)  
RIN: 5.90



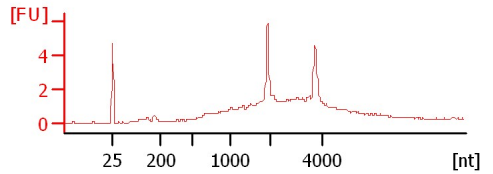
**IFC1**  
Poly A mRNA (BIOO kit)  
RIN: 2.40



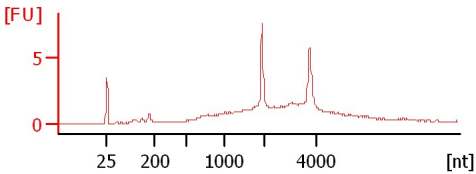
**IFC3**  
Poly A mRNA (BIOO kit)  
RIN: 1.10



**TKWW -**  
Poly A mRNA (BIOO kit)  
RIN: 6.30



**TKWW +**  
Poly A mRNA (BIOO kit)  
RIN: 6.20



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
SWC1	Poly A mRNA (BIOO kit)	✓	RIN: 5.10	
SWC2	Poly A mRNA (BIOO kit)	✓	RIN: 6.30	
SWC3	Poly A mRNA (BIOO kit)	✓	RIN:6	
SWF1	Poly A mRNA (BIOO kit)	✓	RIN: 5.50	
SWF2	Poly A mRNA (BIOO kit)	✓	RIN: 4.80	
SWF3	Poly A mRNA (BIOO kit)	✓	RIN: 5.90	
IFC1	Poly A mRNA (BIOO kit)	✓	RIN: 2.40	
IFC3	Poly A mRNA (BIOO kit)	✓	RIN: 1.10	
TKWW -	Poly A mRNA (BIOO kit)	✓	RIN: 6.30	
TKWW +	Poly A mRNA (BIOO kit)	✓	RIN: 6.20	
Sample 11				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

## 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

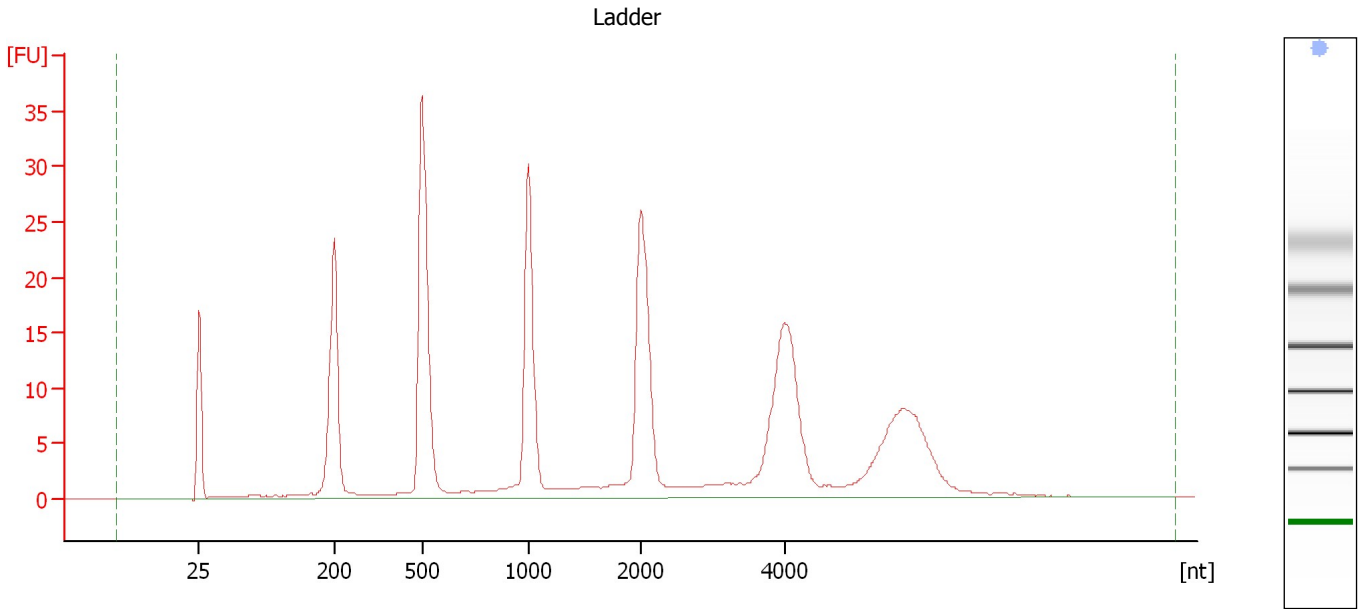
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary**



**Overall Results for Ladder**

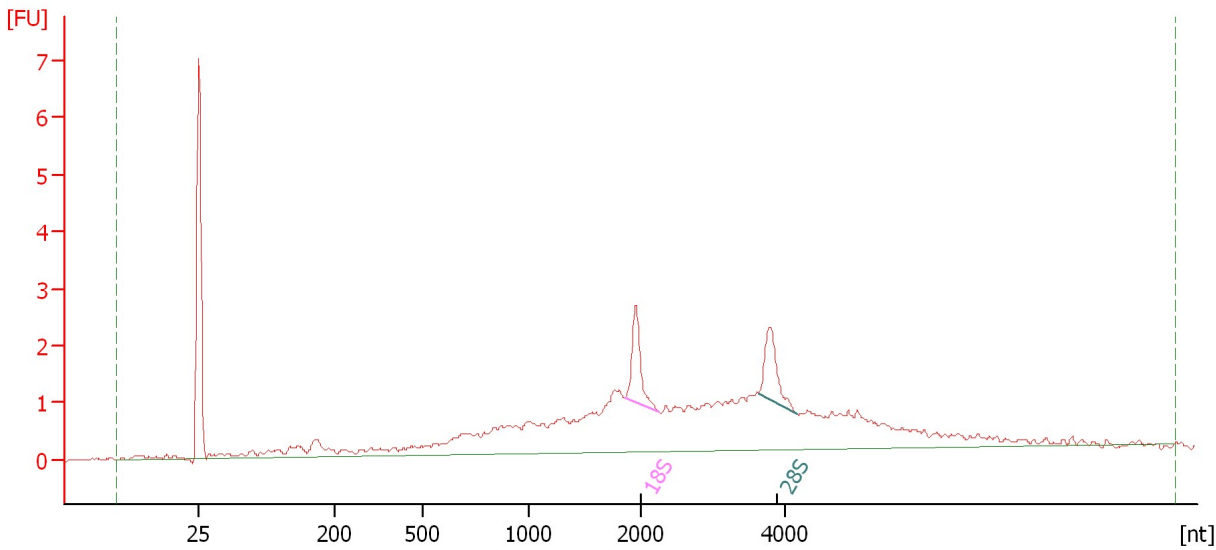
RNA Area:	287.4	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**

SWC1 [ Poly A mRNA (BIOO kit) ]



**Overall Results for sample 1 : SWC1**

RNA Area:	40.4	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	141 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]:	0.9	Result Flagging Label:	RIN: 5.10

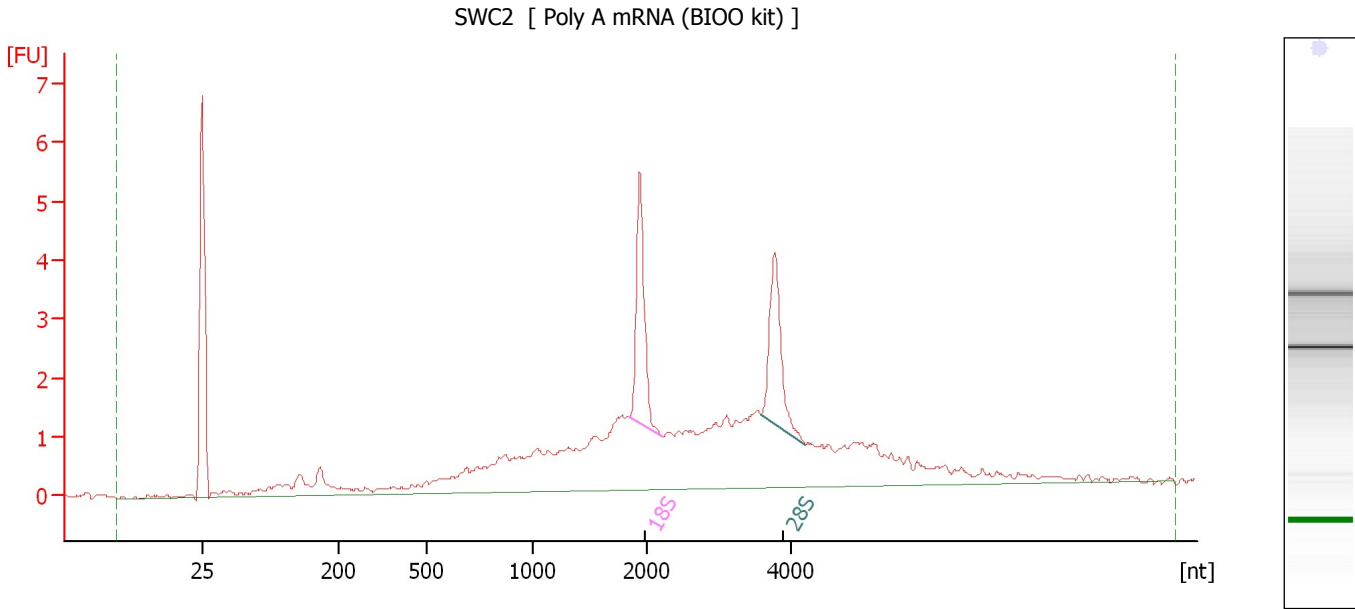
**Fragment table for sample 1 : SWC1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,849	2,238	1.9	4.7
28S	3,626	4,179	1.7	4.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : SWC2**

RNA Area:	53.9	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	188 µg/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: 6.30

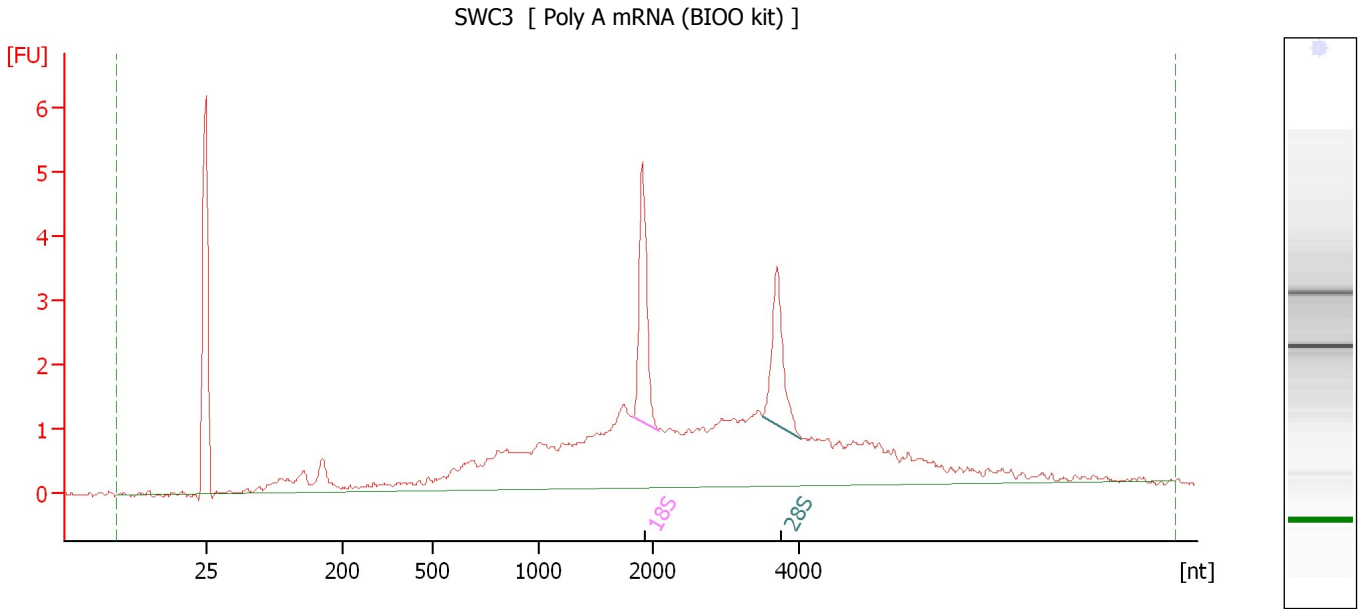
**Fragment table for sample 2 : SWC2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,843	2,197	4.1	7.7
28S	3,562	4,185	3.6	6.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : SWC3**

RNA Area:	50.2	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	175 µg/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]:	0.8	Result Flagging Label:	RIN:6

**Fragment table for sample 3 : SWC3**

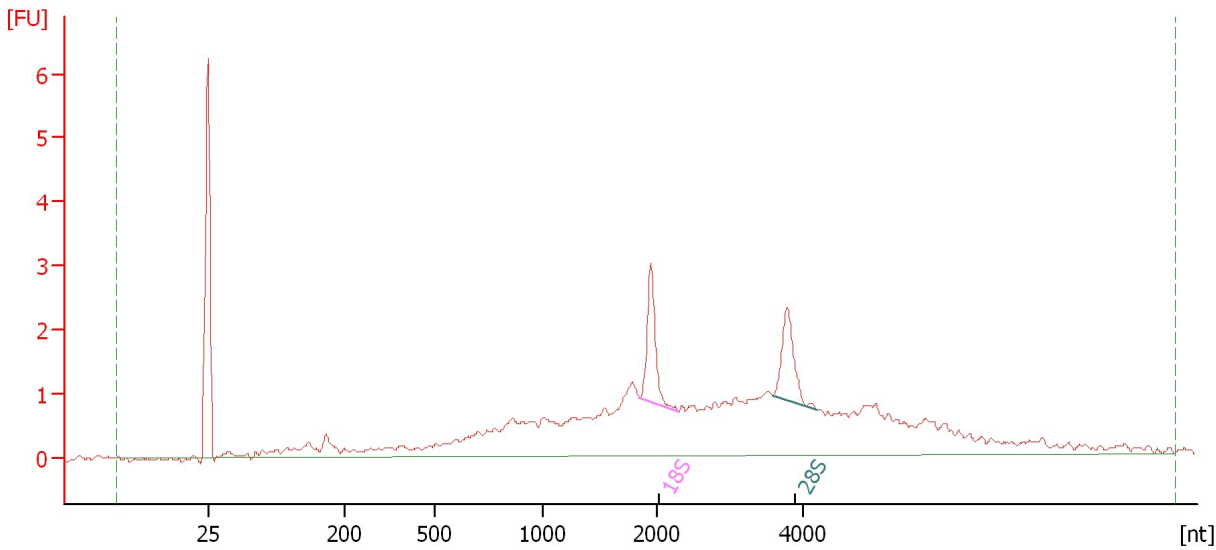
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,810	2,068	3.6	7.2
28S	3,498	4,043	2.9	5.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**

SWF1 [ Poly A mRNA (BIOO kit) ]



**Overall Results for sample 4 : SWF1**

RNA Area:	43.9	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	153 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]:	0.9	Result Flagging Label:	RIN: 5.50

**Fragment table for sample 4 : SWF1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,841	2,277	2.2	4.9
28S	3,568	4,199	1.9	4.2

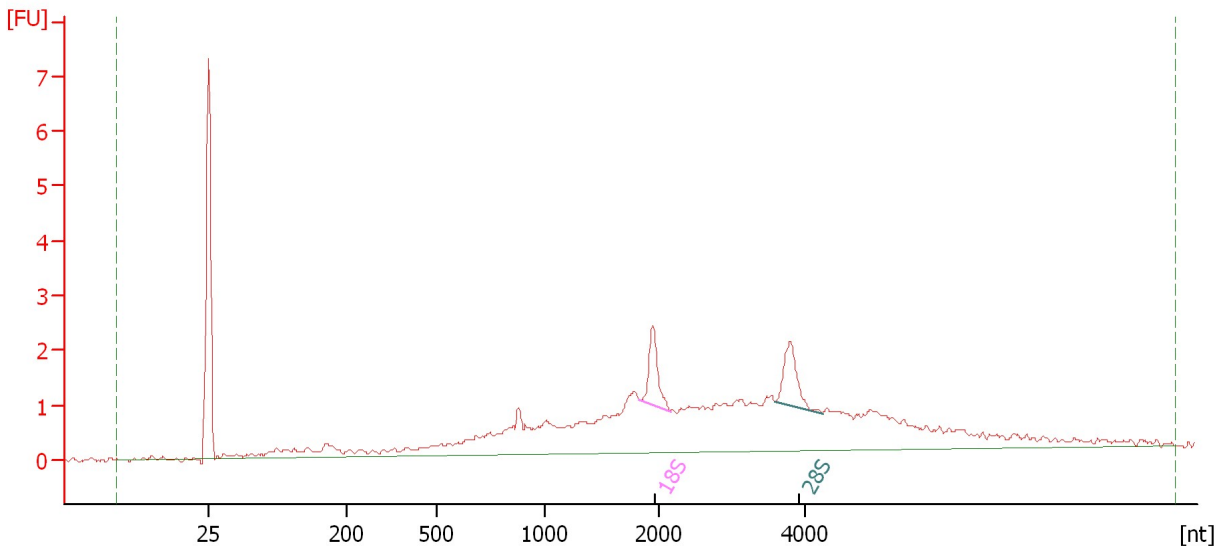


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**

SWF2 [ Poly A mRNA (BIOO kit) ]



**Overall Results for sample 5 : SWF2**

RNA Area:	41.4	RNA Integrity Number (RIN):	4.8 (B.02.08)
RNA Concentration:	144 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: 4.80

**Fragment table for sample 5 : SWF2**

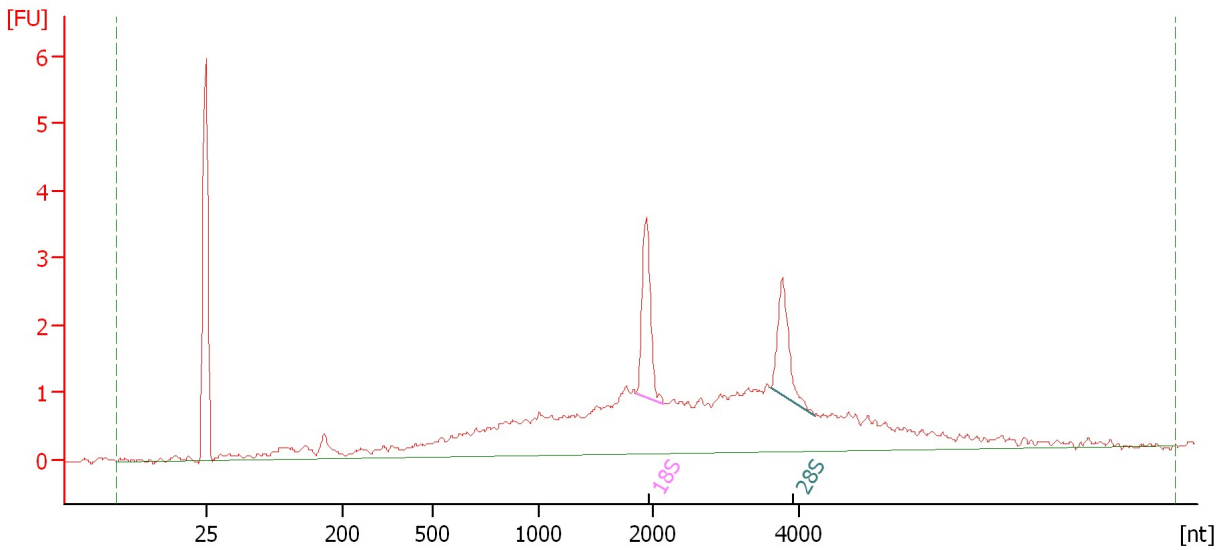
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,824	2,146	1.6	3.8
28S	3,581	4,226	1.6	3.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**

SWF3 [ Poly A mRNA (BIOO kit) ]



**Overall Results for sample 6 : SWF3**

RNA Area:	42.3	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	147 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]:	0.8	Result Flagging Label:	RIN: 5.90

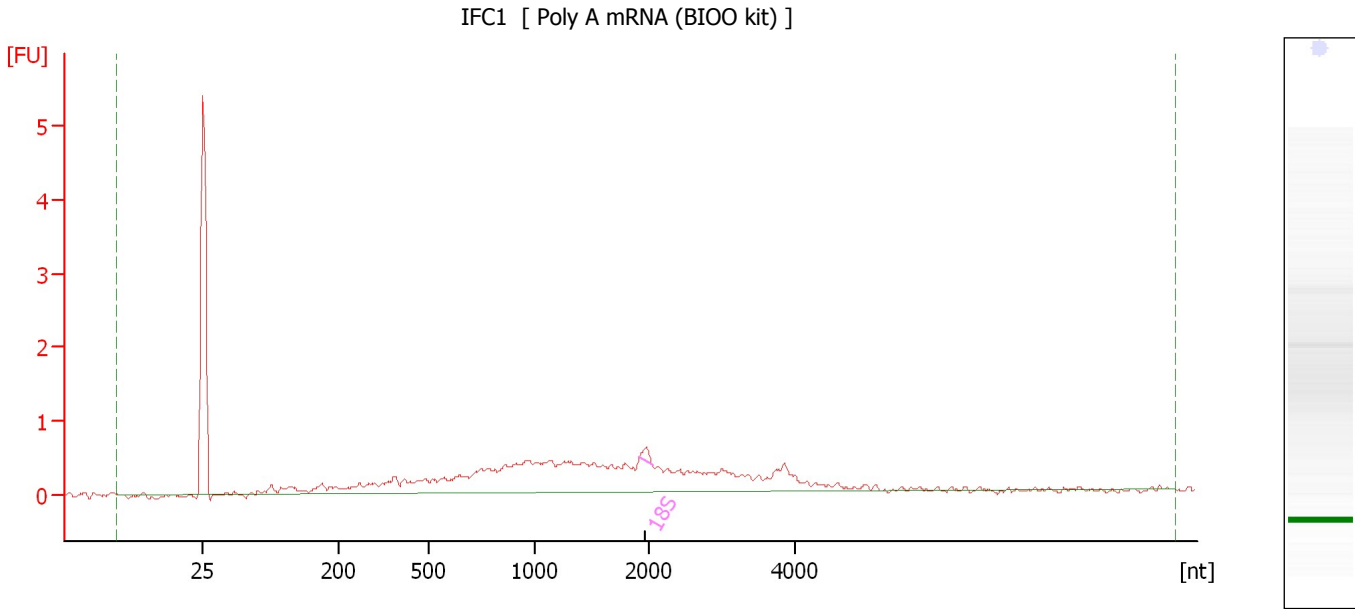
**Fragment table for sample 6 : SWF3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,847	2,127	2.7	6.3
28S	3,616	4,220	2.1	4.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : IFC1**

RNA Area:	14.9	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	52 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: 2.40

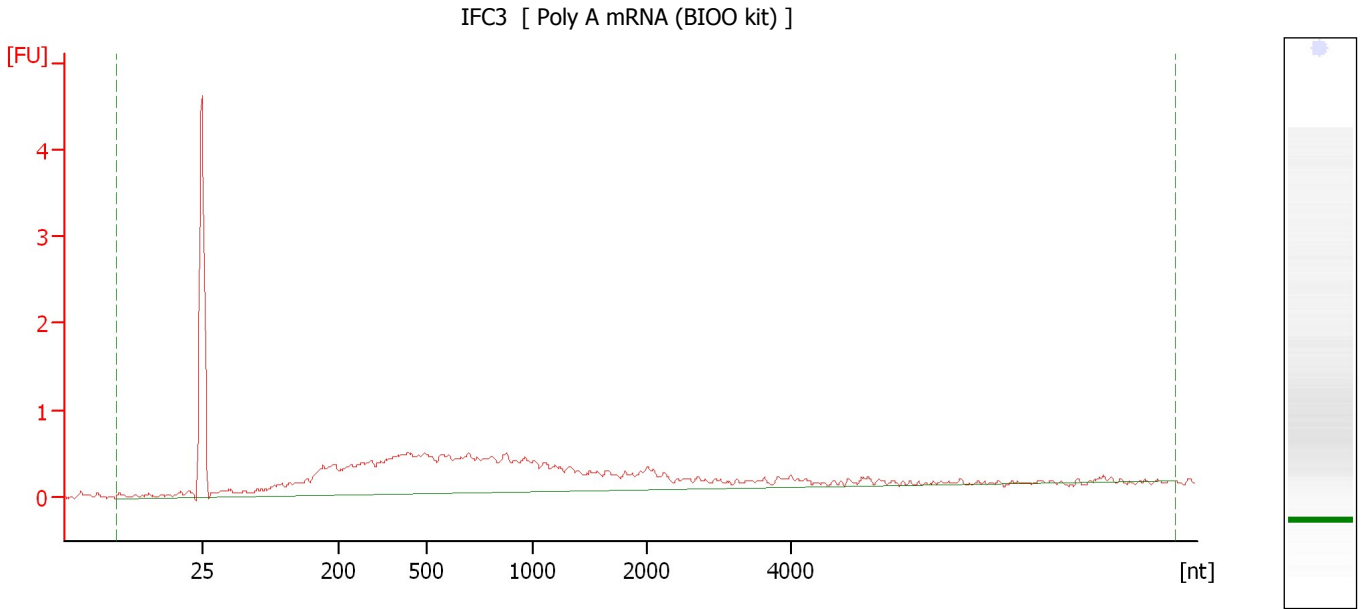
**Fragment table for sample 7 : IFC1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,910	2,036	0.1	0.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**



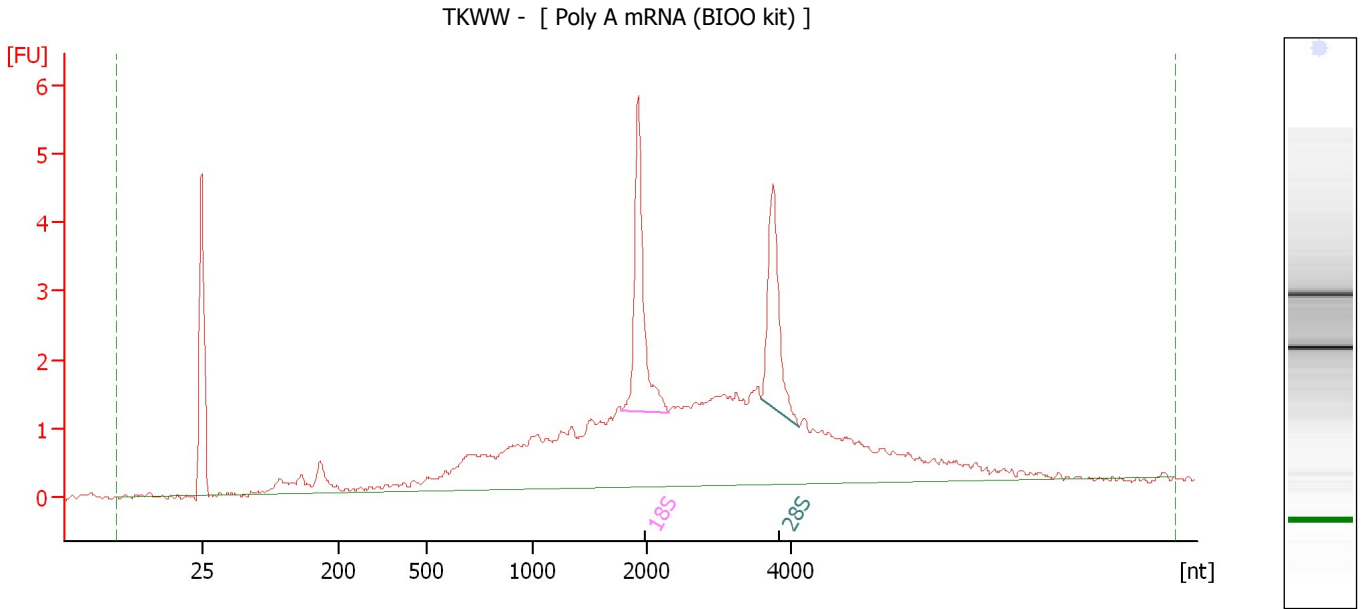
**Overall Results for sample 8 : IFC3**

RNA Area:	18.8	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	65 pg/ $\mu$ l	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: 1.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : TKWW -**

RNA Area: 54.1 RNA Integrity Number (RIN): 6.3 (B.02.08)  
RNA Concentration: 188 µg/µl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 6.30

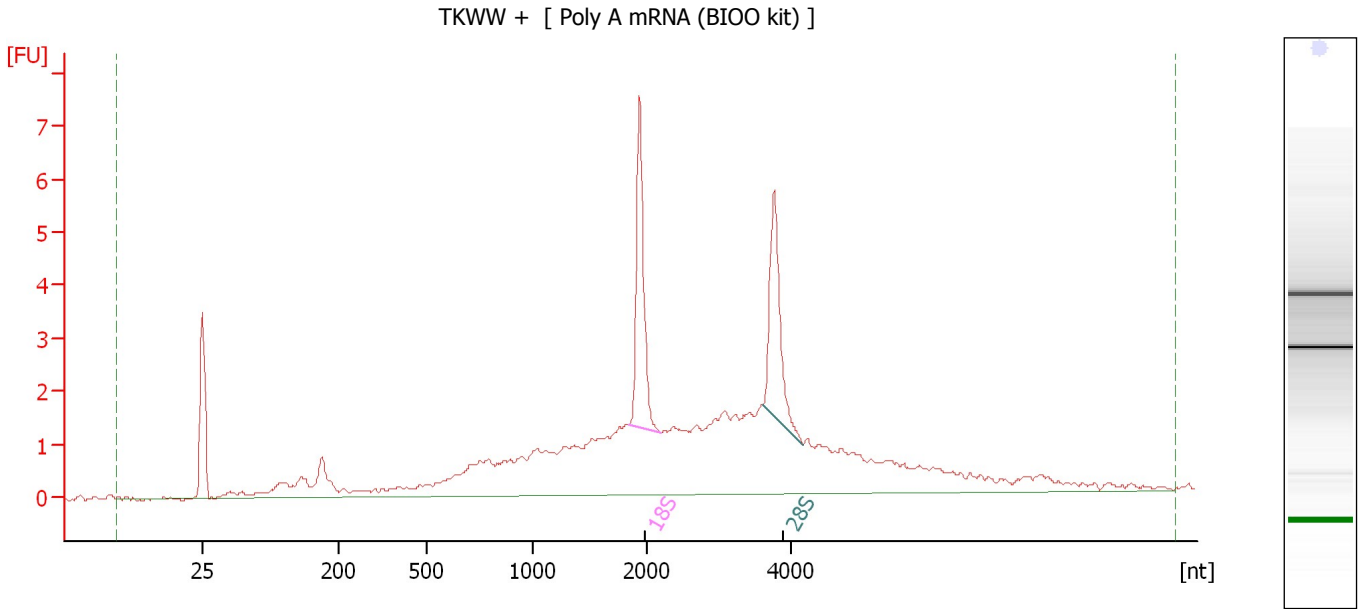
**Fragment table for sample 9 : TKWW -**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,768	2,286	5.0	9.3
28S	3,562	4,096	3.7	6.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
 Modified: 9/29/2014 2:16:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : TKWW +**

RNA Area:	66.8	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	232 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]:	0.8	Result Flagging Label:	RIN: 6.20

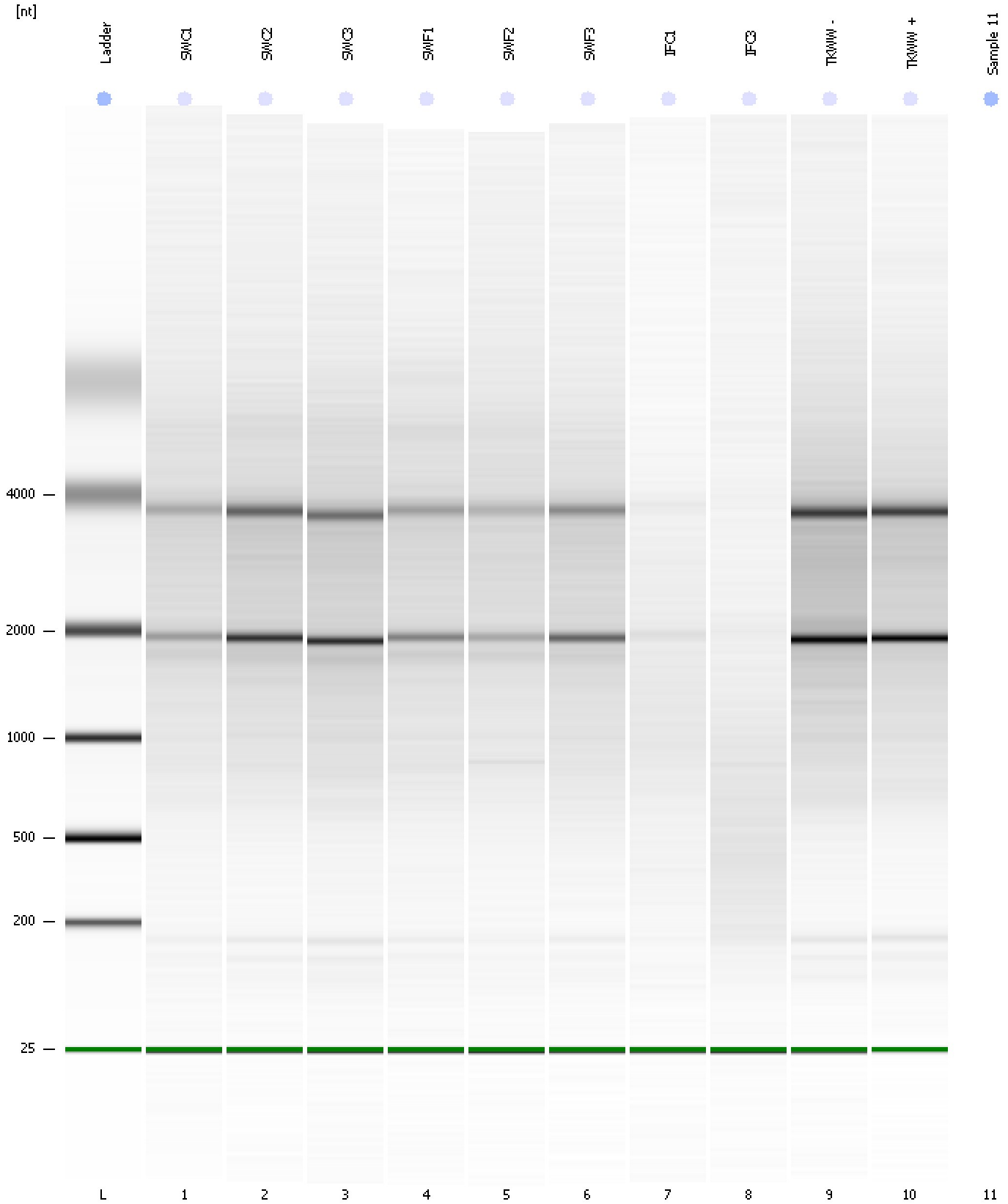
**Fragment table for sample 10 : TKWW +**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,834	2,183	5.5	8.3
28S	3,591	4,155	4.6	6.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Gel Image**

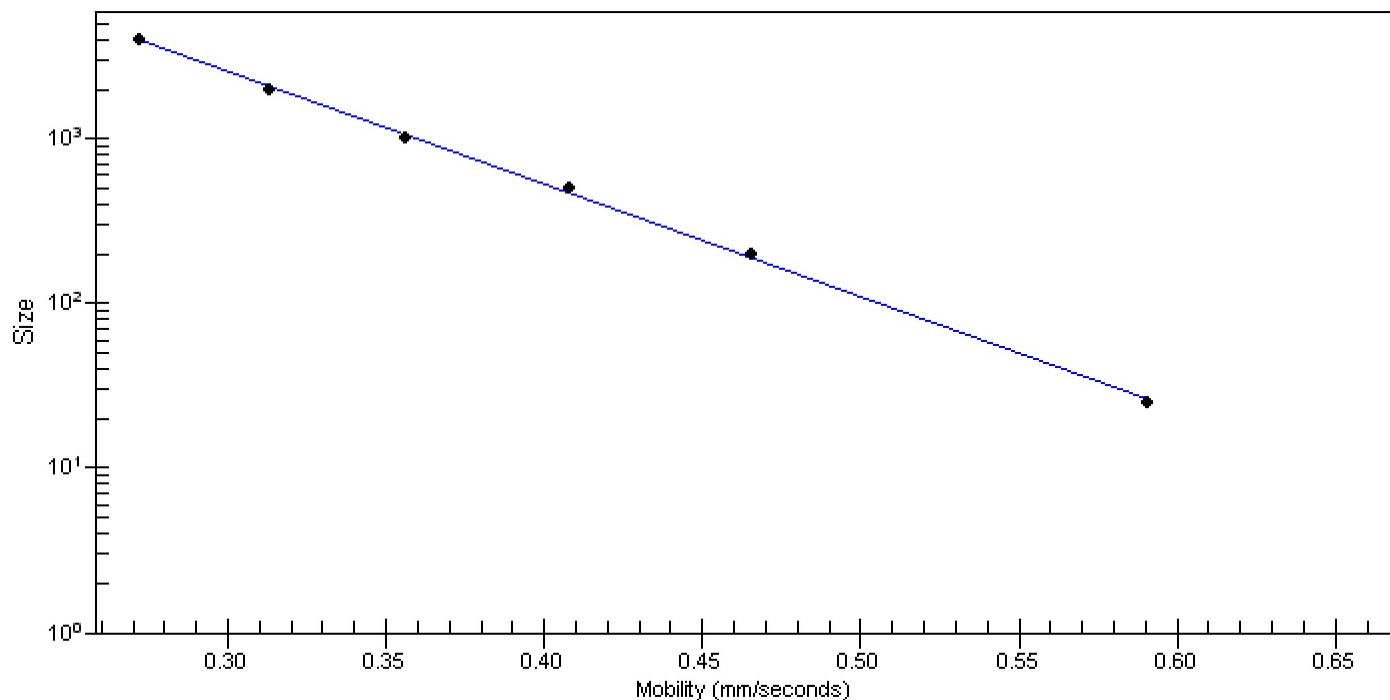


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Curves**

**Standard Curve**





Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
Modified: 9/29/2014 2:16:46 PM

**Invalid Samples**

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-29\2014-09-29\_002.xad

Created: 9/29/2014 1:52:09 PM  
 Modified: 9/29/2014 2:16:46 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		9/29/2014 2:13:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-29\2014-09-29_002.xad)		Instrument	Run		9/29/2014 1:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/29/2014 1:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/29/2014 1:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/29/2014 1:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/29/2014 1:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/29/2014 1:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/29/2014 1:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1