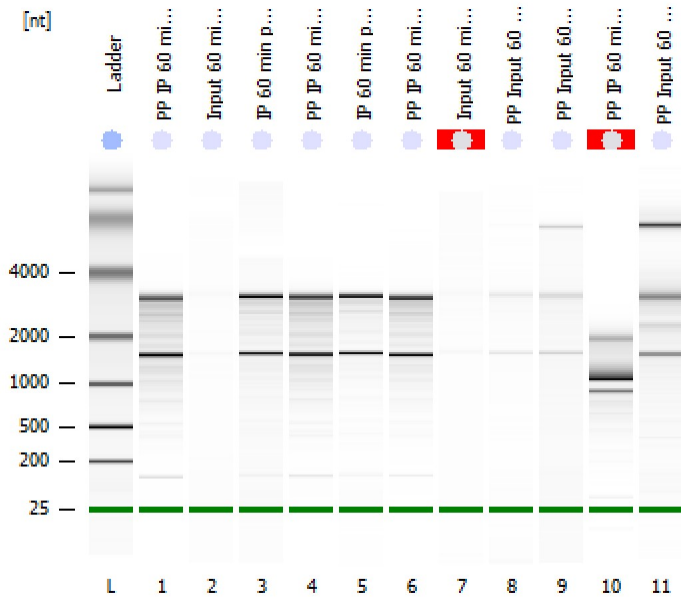


Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electrophoresis File Run Summary**



Instrument Information:

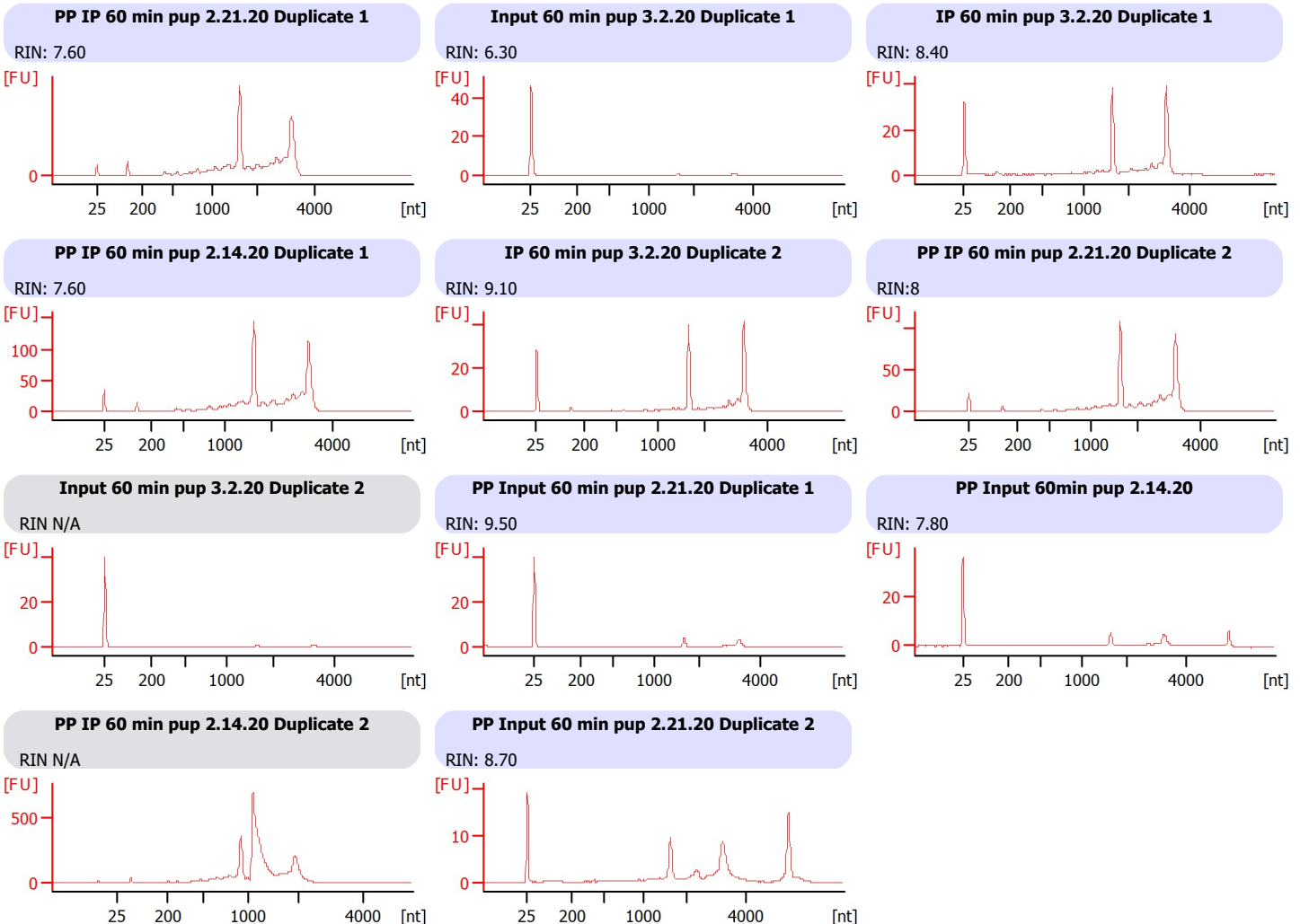
Instrument Name: DE34903152      Firmware: C.01.069  
 Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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:



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
PP IP 60 min pup 2.21.20 Duplicate 1		✓	RIN: 7.60	
Input 60 min pup 3.2.20 Duplicate 1		✓	RIN: 6.30	
IP 60 min pup 3.2.20 Duplicate 1		✓	RIN: 8.40	
PP IP 60 min pup 2.14.20 Duplicate 1		✓	RIN: 7.60	
IP 60 min pup 3.2.20 Duplicate 2		✓	RIN: 9.10	
PP IP 60 min pup 2.21.20 Duplicate 2		✓	RIN:8	
Input 60 min pup 3.2.20 Duplicate 2		✓	RIN N/A	
PP Input 60 min pup 2.21.20 Duplicate 1		✓	RIN: 9.50	
PP Input 60min pup 2.14.20		✓	RIN: 7.80	
PP IP 60 min pup 2.14.20 Duplicate 2		✓	RIN N/A	
PP Input 60 min pup 2.21.20 Duplicate 2		✓	RIN: 8.70	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 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/μl] : 1000  
 Lower Marker Concentration [pg/μl] : 0  
 Upper Marker Concentration [pg/μl] : 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

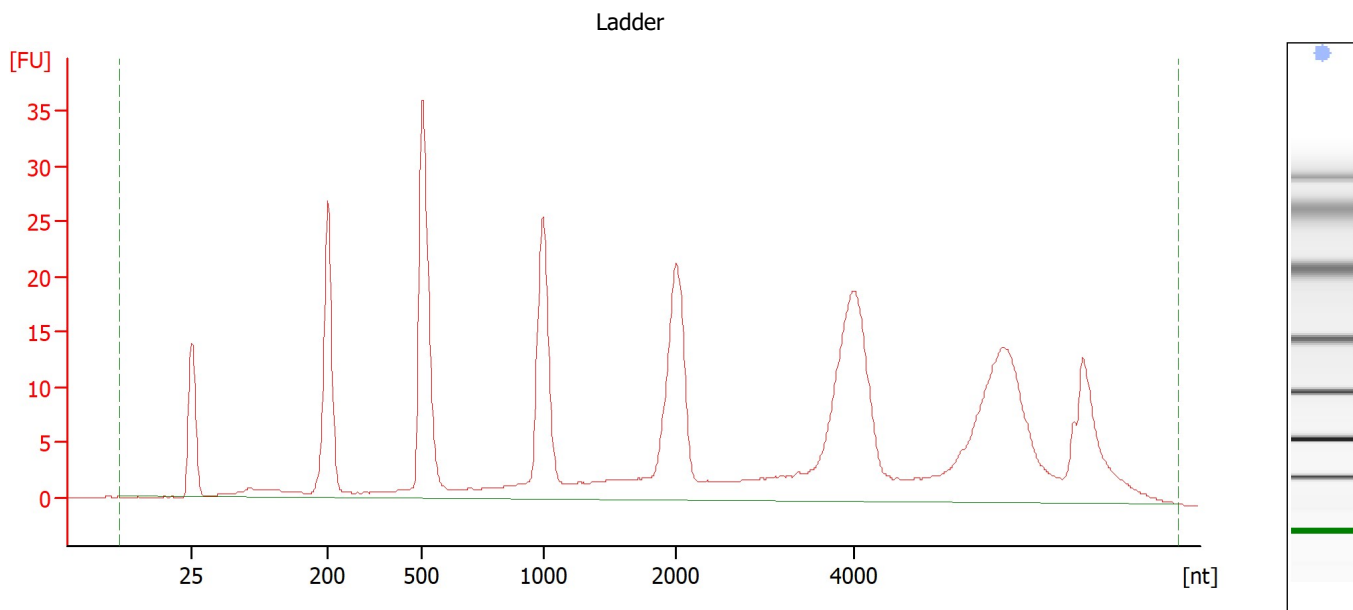
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary**



**Overall Results for Ladder**

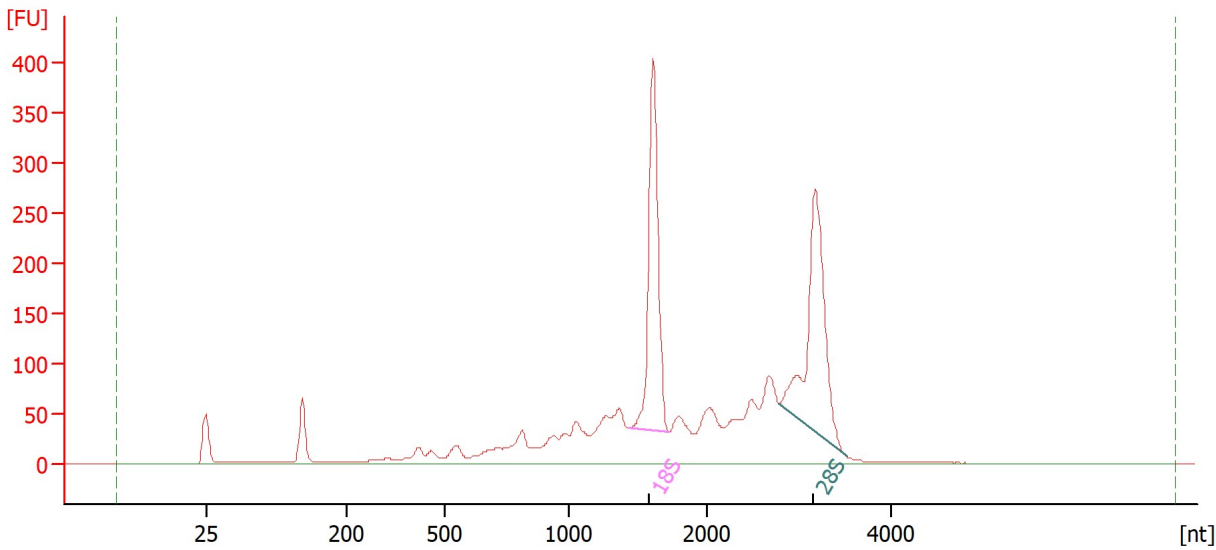
RNA Area:	425.8	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

PP IP 60 min pup 2.21.20 Duplicate 1



**Overall Results for sample 1 : PP IP 60 min pup 2.21.20 Duplicate 1**

RNA Area:	2,479.4	RNA Integrity Number (RIN):	7.6 (B.02.10)
RNA Concentration:	5,823 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: 7.60

**Fragment table for sample 1 : PP IP 60 min pup 2.21.20 Duplicate 1**

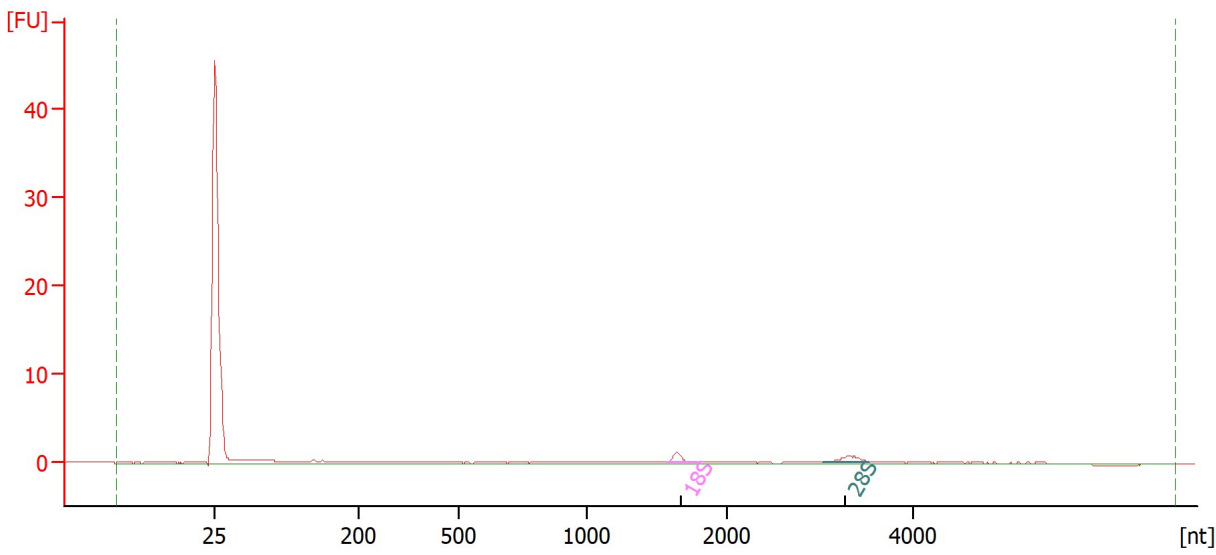
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,428	1,714	435.3	17.6
28S	2,781	3,514	431.7	17.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

Input 60 min pup 3.2.20 Duplicate 1



**Overall Results for sample 2 : Input 60 min pup 3.2.20 Duplicate 1**

RNA Area: 19.7 RNA Integrity Number (RIN): 6.3 (B.02.10)  
RNA Concentration: 46 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 6.30

**Fragment table for sample 2 : Input 60 min pup 3.2.20 Duplicate 1**

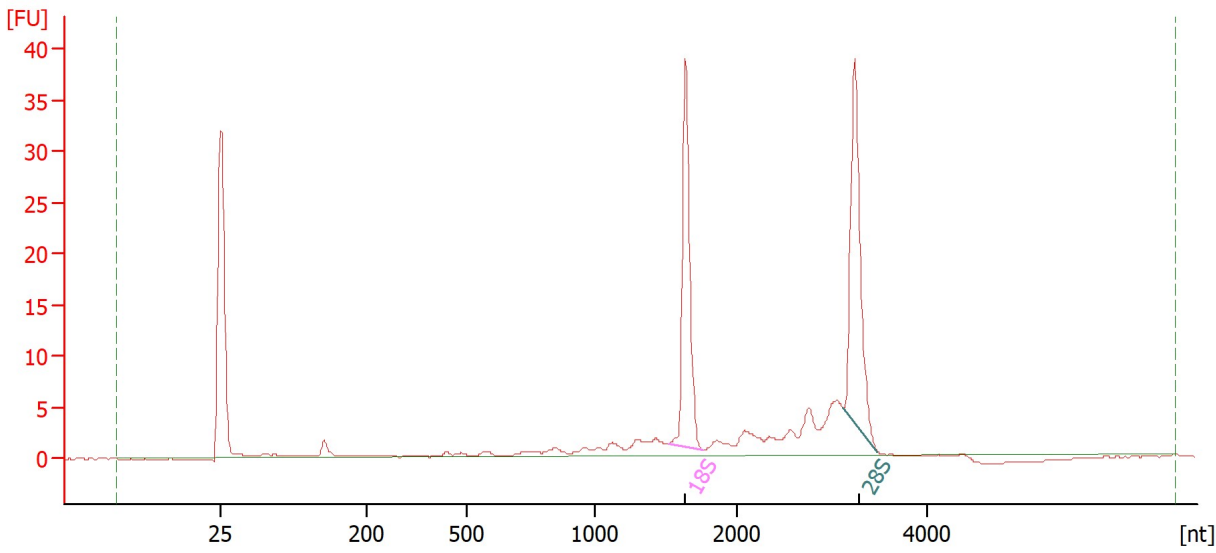
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,781	1.0	5.0
28S	3,018	3,509	1.0	5.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

IP 60 min pup 3.2.20 Duplicate 1



**Overall Results for sample 3 : IP 60 min pup 3.2.20 Duplicate 1**

RNA Area:	130.9	RNA Integrity Number (RIN):	8.4 (B.02.10)
RNA Concentration:	307 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]:	1.0	Result Flagging Label:	RIN: 8.40

**Fragment table for sample 3 : IP 60 min pup 3.2.20 Duplicate 1**

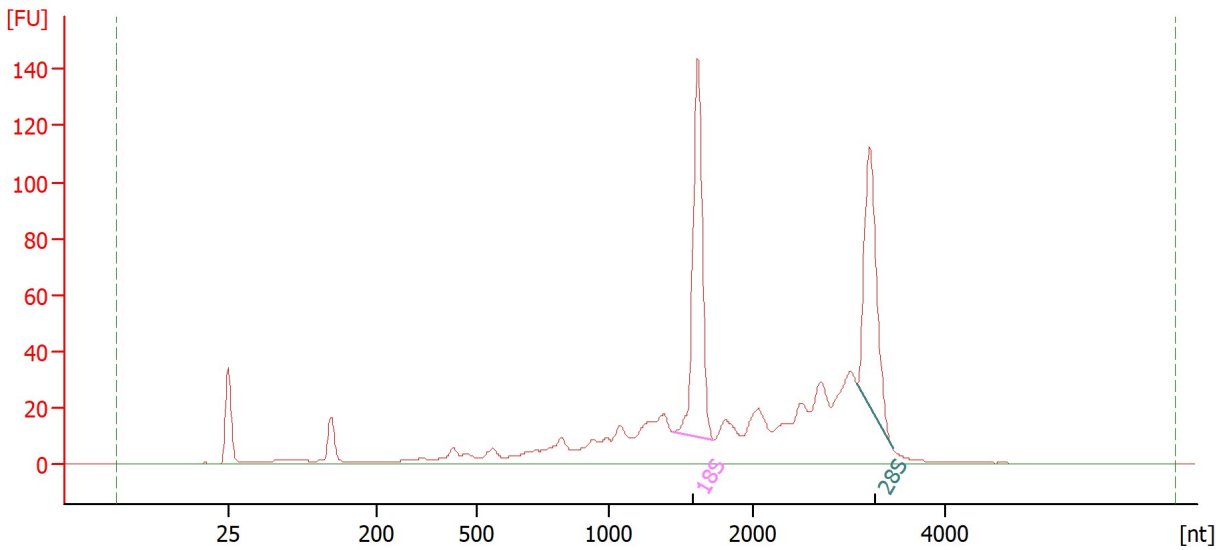
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,521	1,761	32.9	25.2
28S	3,121	3,483	33.3	25.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

PP IP 60 min pup 2.14.20 Duplicate 1



**Overall Results for sample 4 : PP IP 60 min pup 2.14.20 Duplicate 1**

RNA Area: 827.4 RNA Integrity Number (RIN): 7.6 (B.02.10)  
RNA Concentration: 1,943 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 7.60

**Fragment table for sample 4 : PP IP 60 min pup 2.14.20 Duplicate 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,454	1,727	148.1	17.9
28S	3,094	3,462	110.8	13.4

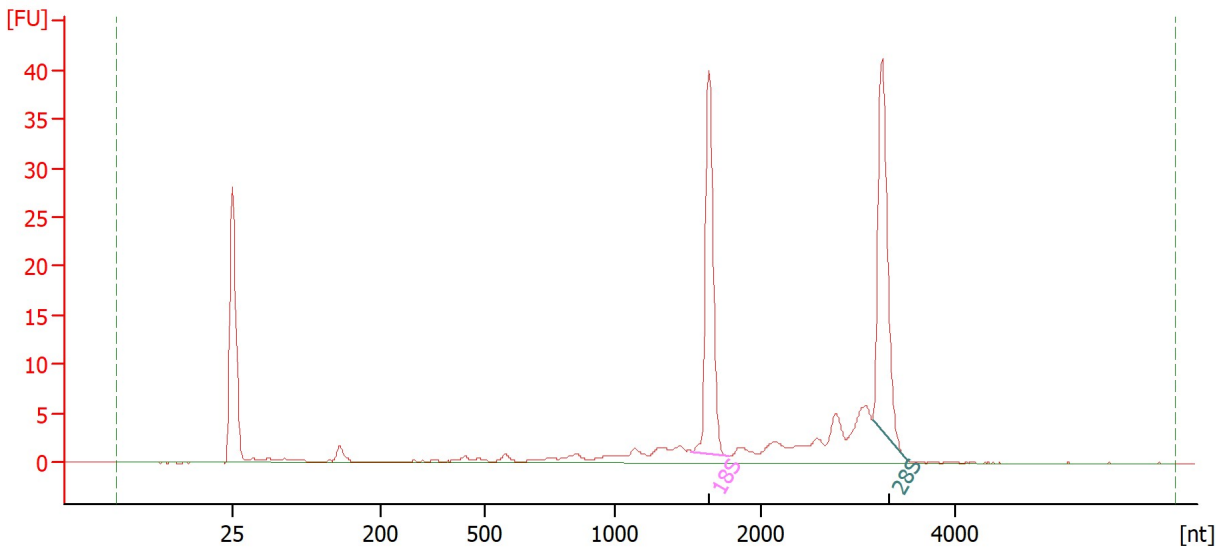


Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

IP 60 min pup 3.2.20 Duplicate 2



**Overall Results for sample 5 : IP 60 min pup 3.2.20 Duplicate 2**

RNA Area:	133.0	RNA Integrity Number (RIN):	9.1 (B.02.10)
RNA Concentration:	312 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: 9.10

**Fragment table for sample 5 : IP 60 min pup 3.2.20 Duplicate 2**

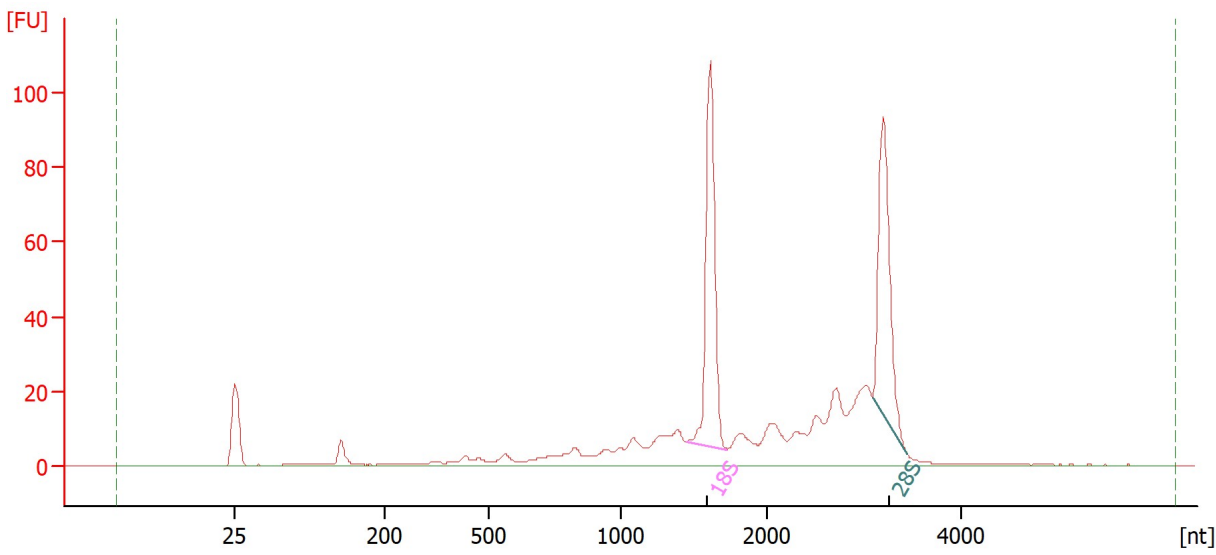
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,524	1,774	33.2	24.9
28S	3,152	3,506	34.2	25.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

PP IP 60 min pup 2.21.20 Duplicate 2



**Overall Results for sample 6 : PP IP 60 min pup 2.21.20 Duplicate 2**

RNA Area: 506.6 RNA Integrity Number (RIN): 8 (B.02.10)  
 RNA Concentration: 1,190 pg/μl Result Flagging Color:   
 rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN:8

**Fragment table for sample 6 : PP IP 60 min pup 2.21.20 Duplicate 2**

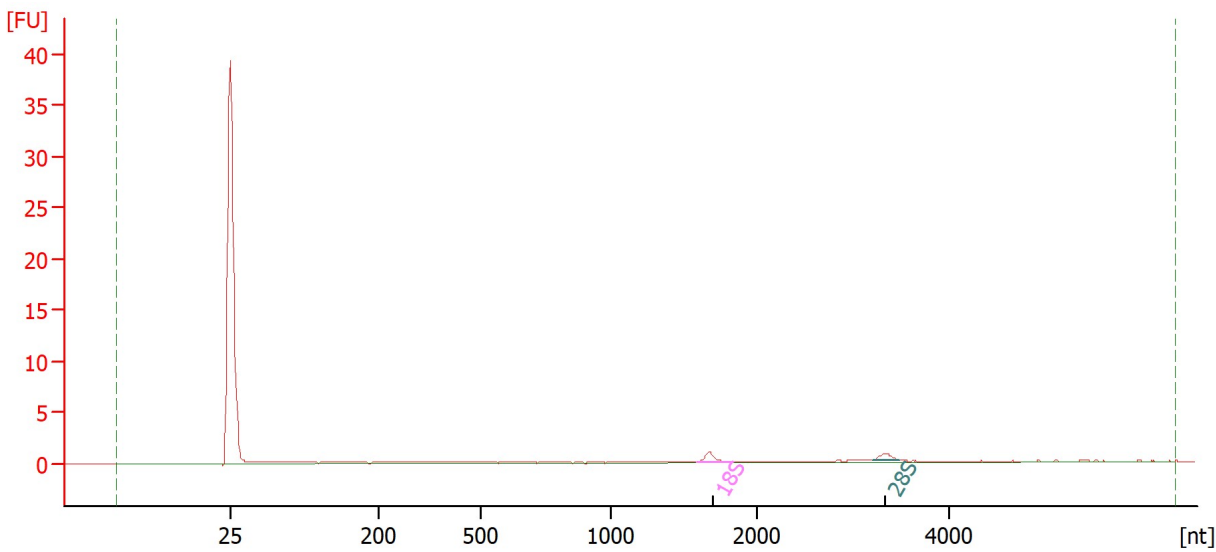
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,447	1,724	101.3	20.0
28S	3,080	3,431	85.7	16.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

Input 60 min pup 3.2.20 Duplicate 2



**Overall Results for sample 7 : Input 60 min pup 3.2.20 Duplicate 2**

RNA Area: 6.7 RNA Integrity Number (RIN): N/A (B.02.10)  
 RNA Concentration: 16 pg/μl Result Flagging Color:   
 rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN N/A

**Fragment table for sample 7 : Input 60 min pup 3.2.20 Duplicate 2**

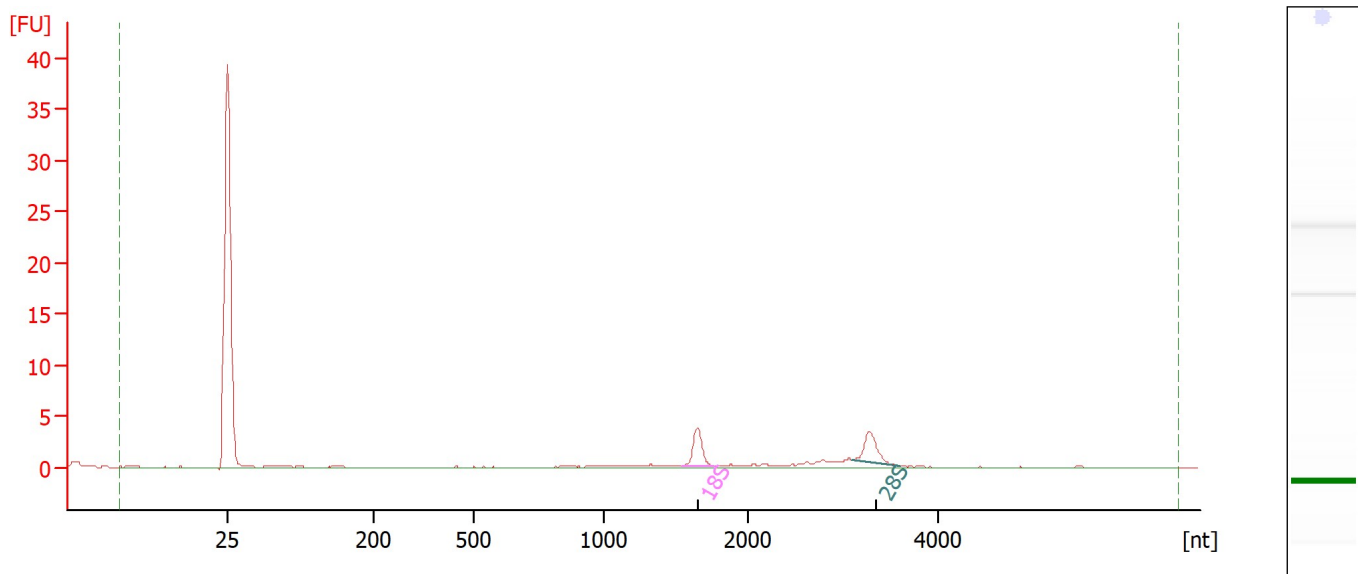
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,581	1,817	1.1	16.9
28S	3,212	3,479	0.7	10.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

PP Input 60 min pup 2.21.20 Duplicate 1



**Overall Results for sample 8 : PP Input 60 min pup 2.21.20 Duplicate 1**

RNA Area:	18.5	RNA Integrity Number (RIN):	9.5 (B.02.10)
RNA Concentration:	43 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: 9.50

**Fragment table for sample 8 : PP Input 60 min pup 2.21.20 Duplicate 1**

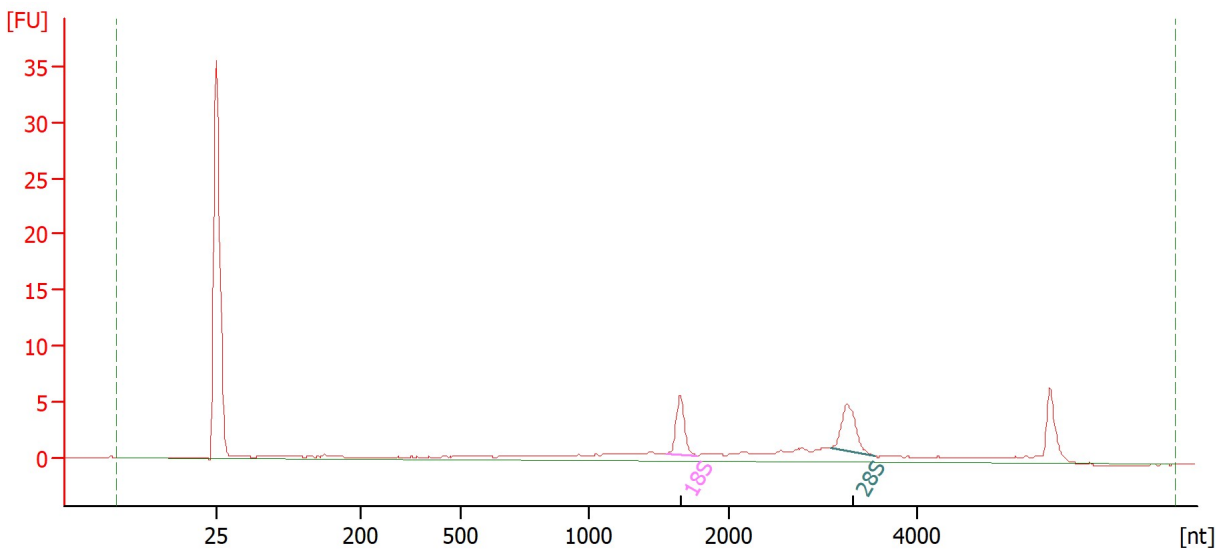
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,539	1,770	3.7	20.3
28S	3,103	3,609	3.7	19.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

PP Input 60min pup 2.14.20



**Overall Results for sample 9 : PP Input 60min pup 2.14.20**

RNA Area: 56.4                      RNA Integrity Number (RIN): 7.8 (B.02.10)  
RNA Concentration: 132 pg/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2              Result Flagging Label: RIN: 7.80

**Fragment table for sample 9 : PP Input 60min pup 2.14.20**

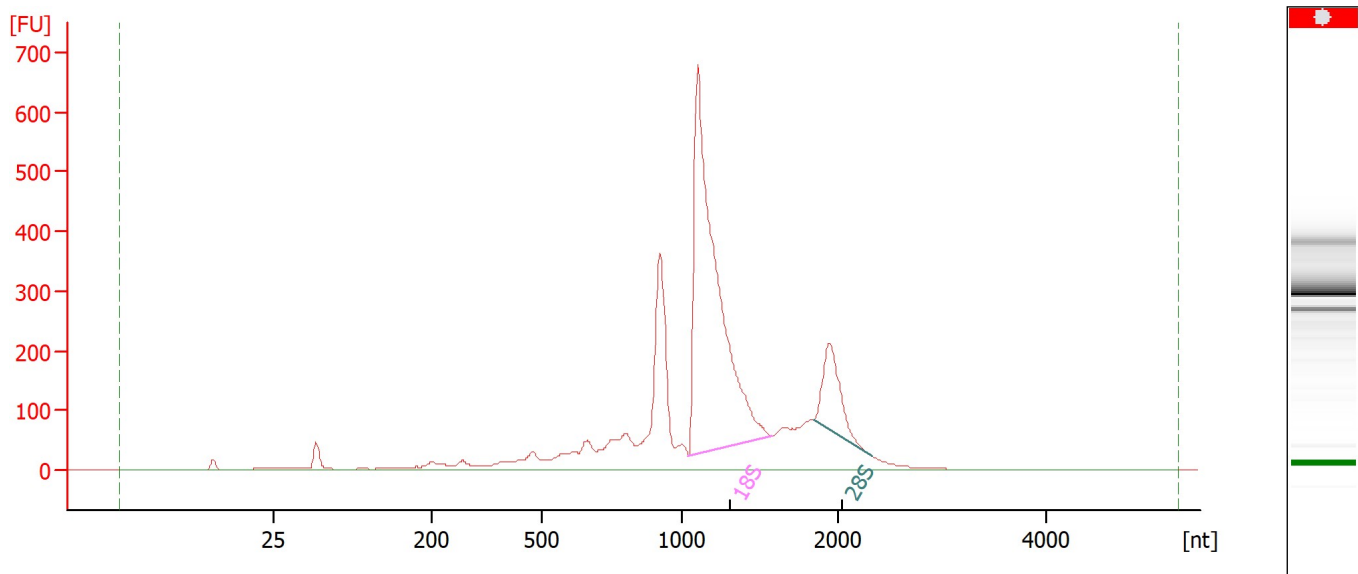
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,562	1,766	5.1	9.0
28S	3,084	3,563	6.0	10.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

PP IP 60 min pup 2.14.20 Duplicate 2



**Overall Results for sample 10 : PP IP 60 min pup 2.14.20 Duplicate 2**

RNA Area:	4,128.3	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	9,696 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 10 : PP IP 60 min pup 2.14.20 Duplicate 2**

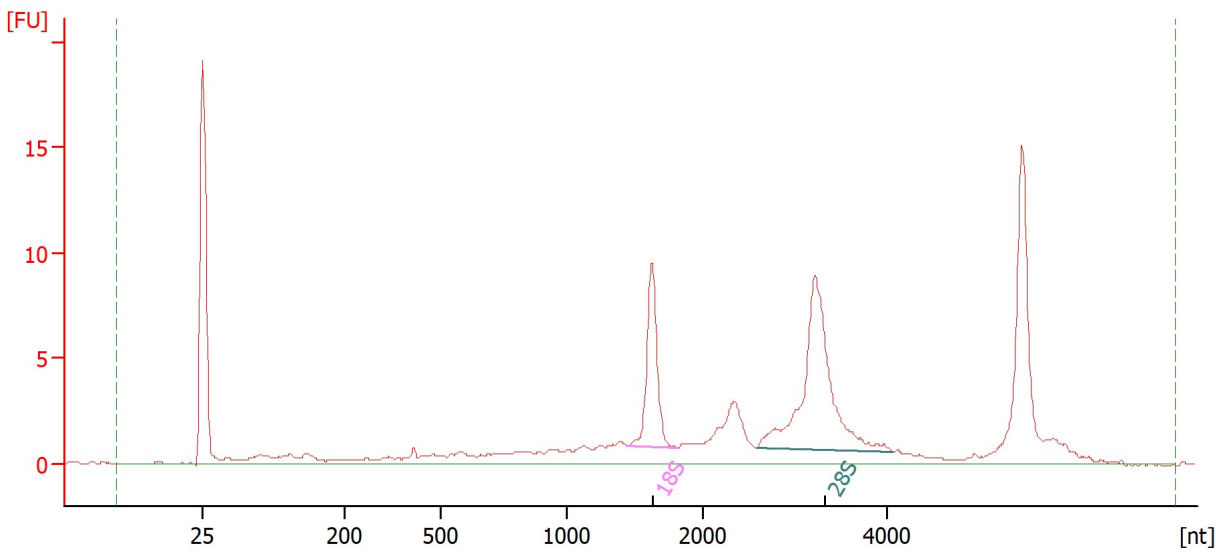
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,036	1,571	1,617.7	39.2
28S	1,838	2,325	255.9	6.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**Electropherogram Summary Continued ...**

PP Input 60 min pup 2.21.20 Duplicate 2



**Overall Results for sample 11 : PP Input 60 min pup 2.21.20 Duplicate 2**

RNA Area:	102.9	RNA Integrity Number (RIN):	8.7 (B.02.10)
RNA Concentration:	242 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]:	2.1	Result Flagging Label:	RIN: 8.70

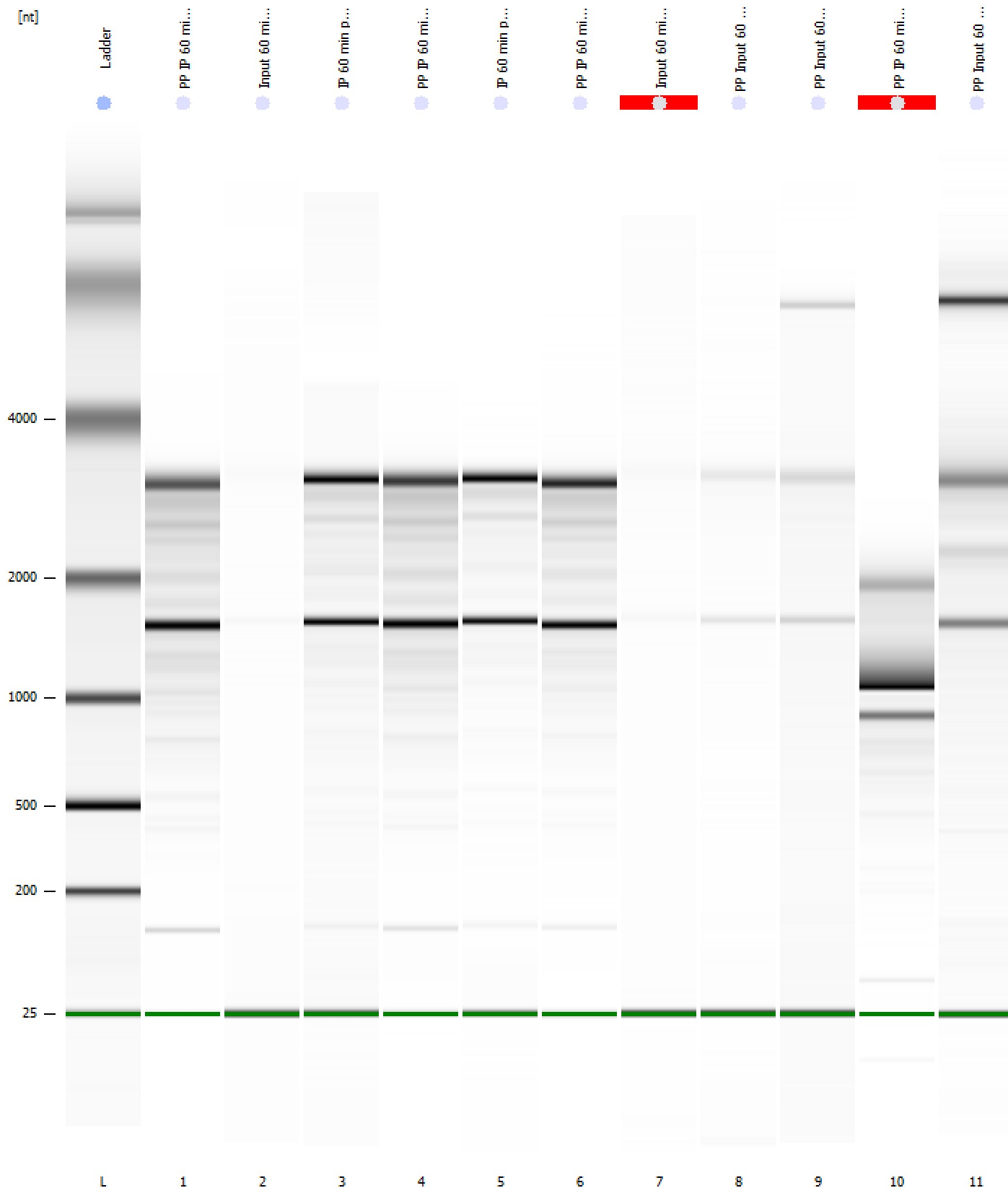
**Fragment table for sample 11 : PP Input 60 min pup 2.21.20 Duplicate 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,449	1,814	10.9	10.6
28S	2,573	4,081	22.8	22.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad

Created: 3/4/2020 1:47:45 PM  
Modified: 3/4/2020 2:15:49 PM

Gel Image





Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-04\_001.xad  
 Created: 3/4/2020 1:47:45 PM  
 Modified: 3/4/2020 2:15:49 PM

**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		3/4/2020 2:10:43 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-03-04\Bioanalyze r1_Eukaryote Total RNA Pico_2020-03-04_001.xad)		Instrument	Run		3/4/2020 1:47:51 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		3/4/2020 1:47:51 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		3/4/2020 1:47:51 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		3/4/2020 1:47:51 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		3/4/2020 1:47:51 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		3/4/2020 1:47:51 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		3/4/2020 1:47:51 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB