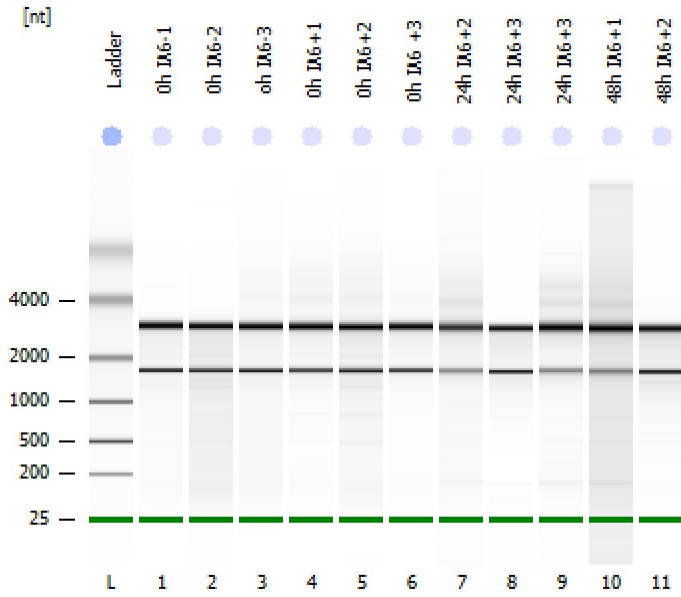


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
Modified: 2/18/2020 3:59:55 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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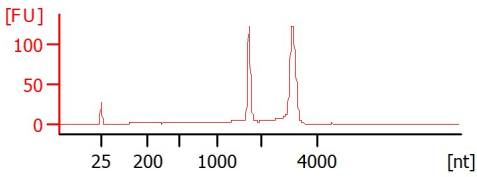
Chip Information:

Chip Lot #:

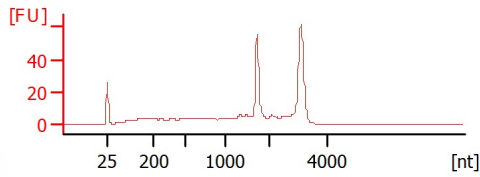
Reagent Kit Lot #:

Chip Comments:

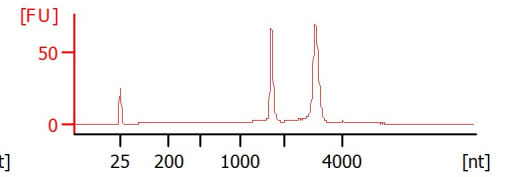
**0h IA6-1**  
NovaSeq144 (DNase Treated)  
RIN: 9.10



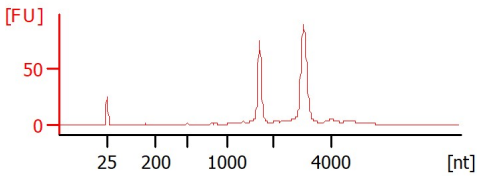
**0h IA6-2**  
RIN: 7.60



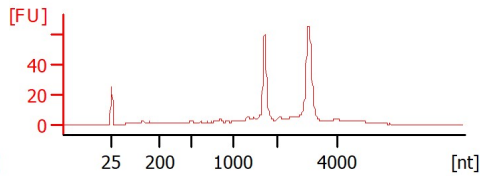
**oh IA6-3**  
RIN: 8.80



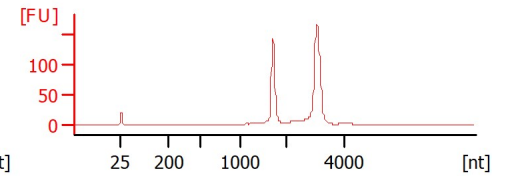
**0h IA6+1**  
RIN: 9.50



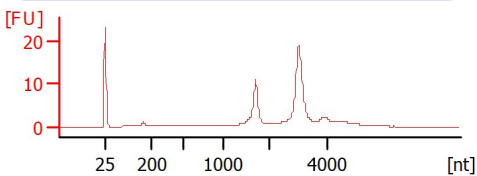
**0h IA6+2**  
RIN: 8.40



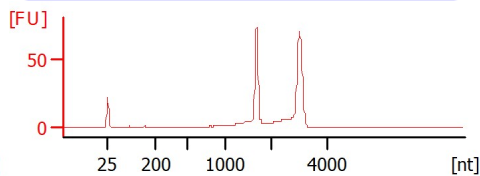
**0h IA6+3**  
RIN: 9.80



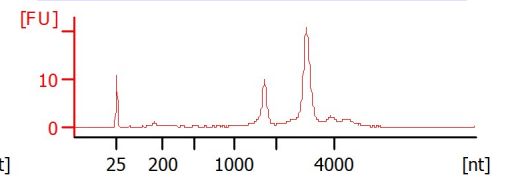
**24h IA6+2**  
RIN: 9.10



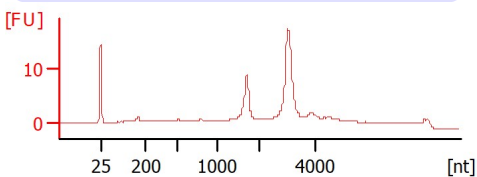
**24h IA6+3**  
RIN: 9.40



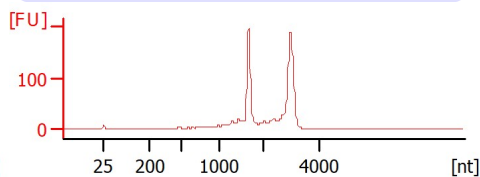
**24h IA6+3**  
RIN: 9.40



**48h IA6+1**  
RIN: 8.50



**48h IA6+2**  
RIN: 8.60



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
0h IA6-1	NovaSeq144 (DNase Treated)	✓	RIN: 9.10	
0h IA6-2		✓	RIN: 7.60	
oh IA6-3		✓	RIN: 8.80	
0h IA6+1		✓	RIN: 9.50	
0h IA6+2		✓	RIN: 8.40	
0h IA6 +3		✓	RIN: 9.80	
24h IA6+2		✓	RIN: 9.10	
24h IA6+3		✓	RIN: 9.40	
24h IA6+3		✓	RIN: 9.40	
48h IA6+1		✓	RIN: 8.50	
48h IA6+2		✓	RIN: 8.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 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

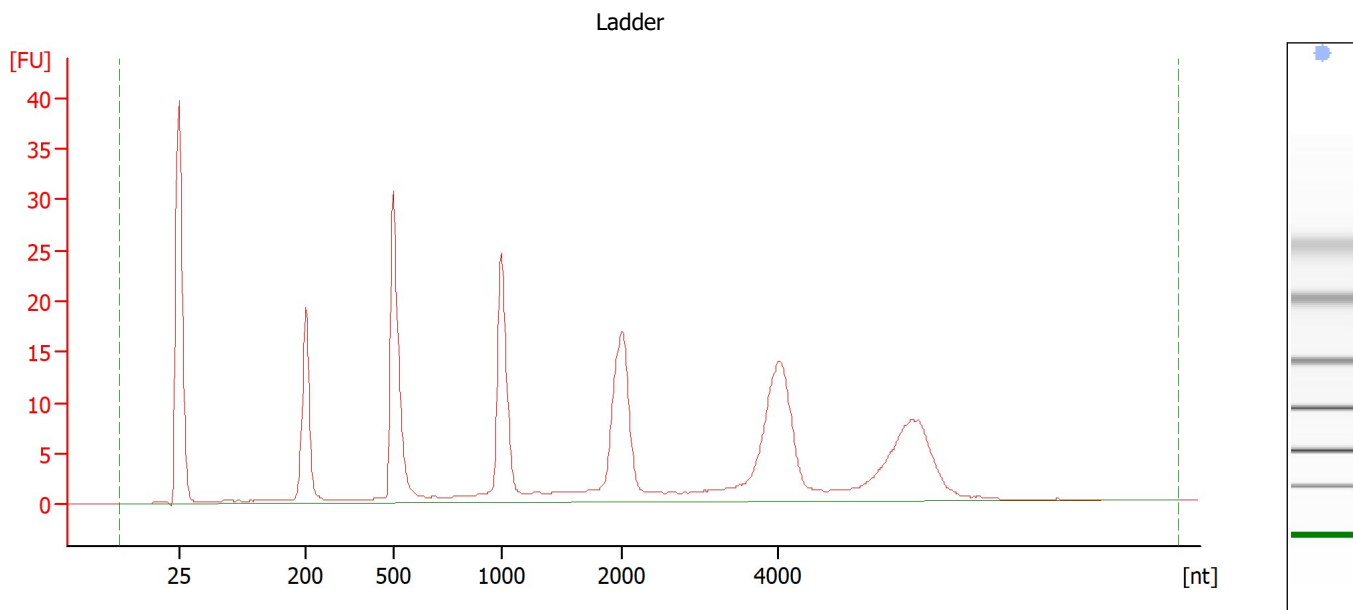
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary**



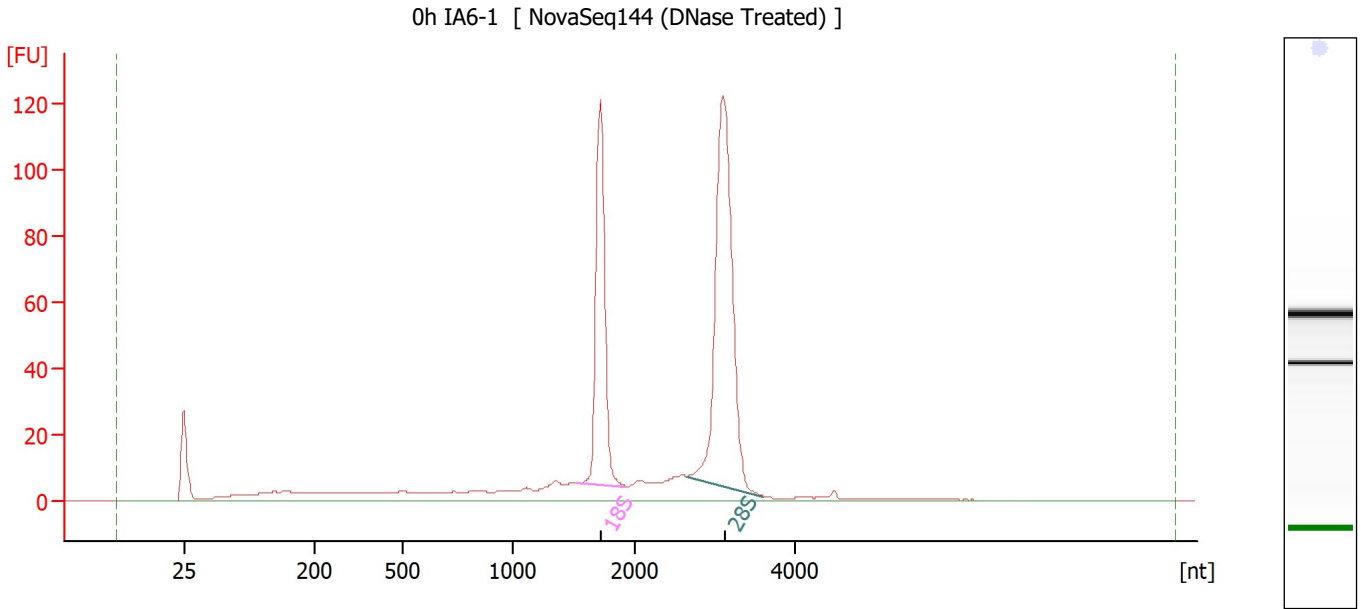
**Overall Results for Ladder**

RNA Area:	255.9	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:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 0h IA6-1**

RNA Area:	600.2	RNA Integrity Number (RIN):	9.1 (B.02.10)
RNA Concentration:	2,345 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]:	1.7	Result Flagging Label:	RIN: 9.10

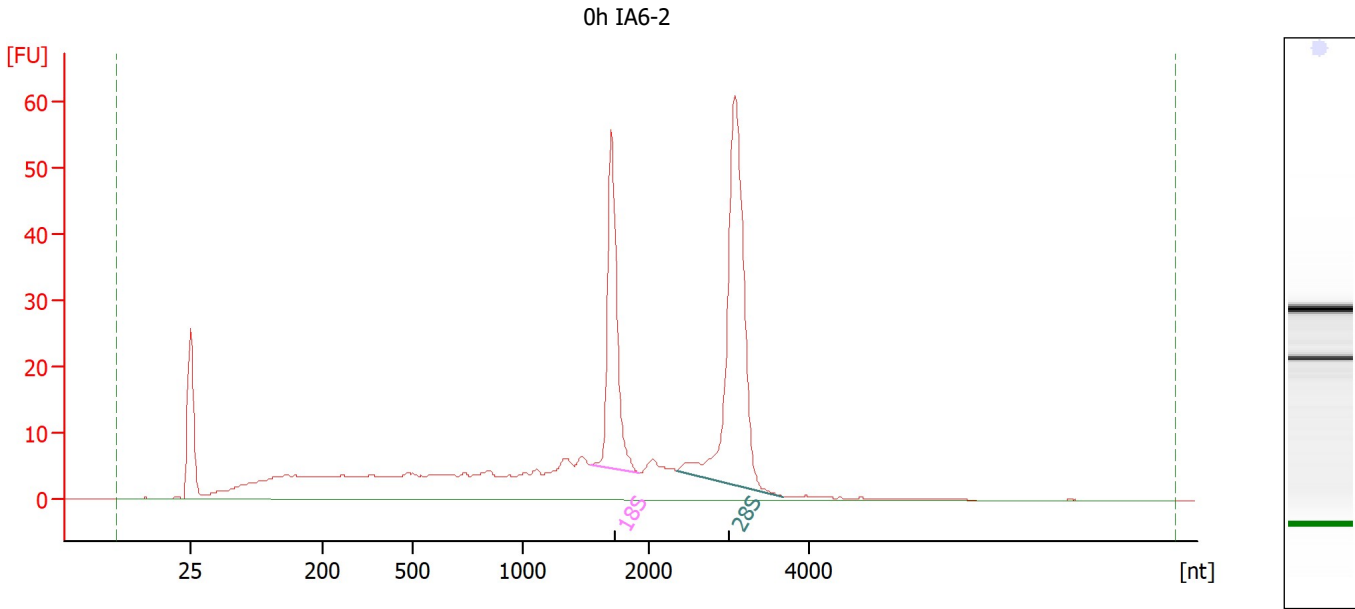
**Fragment table for sample 1 : 0h IA6-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,526	1,917	130.0	21.7
28S	2,639	3,608	224.0	37.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 0h IA6-2**

RNA Area:	430.4	RNA Integrity Number (RIN):	7.6 (B.02.10)
RNA Concentration:	1,682 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]:	1.8	Result Flagging Label:	RIN: 7.60

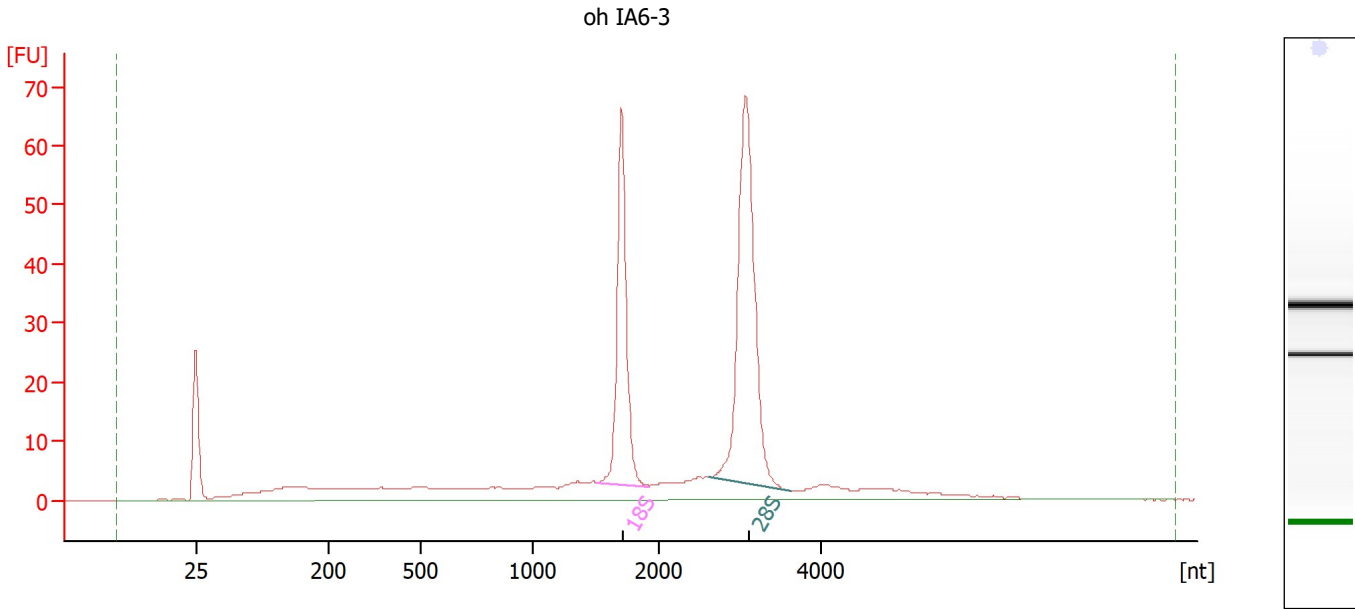
**Fragment table for sample 2 : 0h IA6-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,536	1,922	59.6	13.9
28S	2,357	3,672	109.8	25.5

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : oh IA6-3**

RNA Area:	382.2	RNA Integrity Number (RIN):	8.8 (B.02.10)
RNA Concentration:	1,494 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]:	1.6	Result Flagging Label:	RIN: 8.80

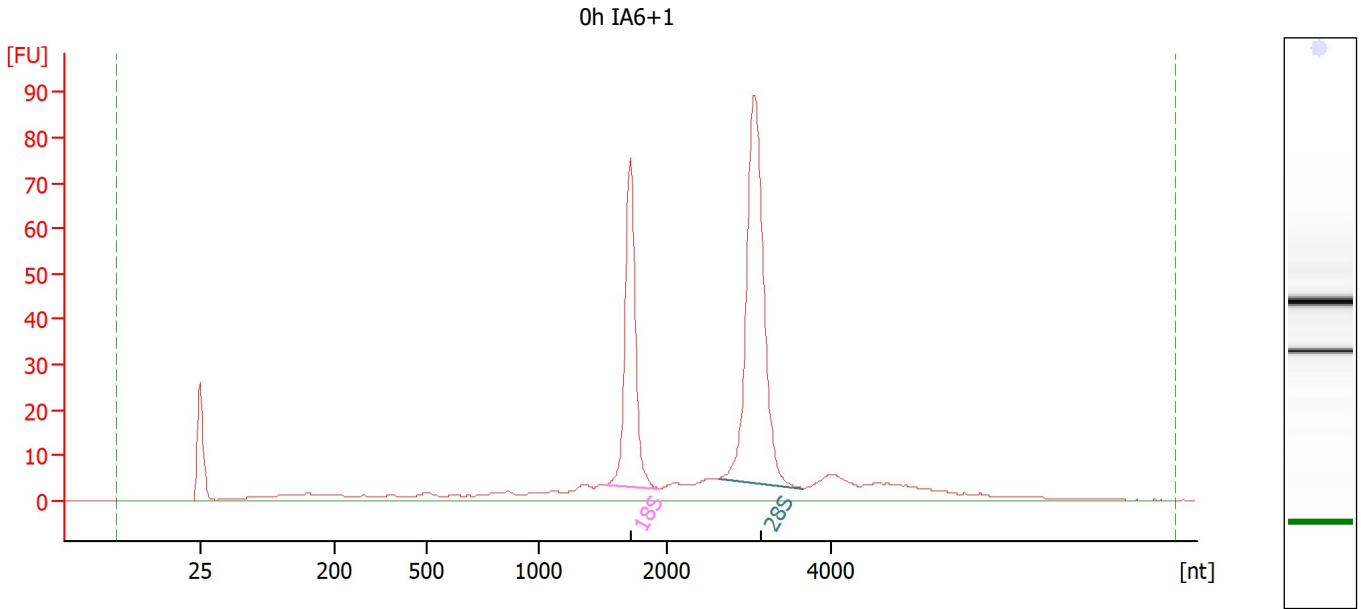
**Fragment table for sample 3 : oh IA6-3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,510	1,925	72.9	19.1
28S	2,621	3,619	119.7	31.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 0h IA6+1**

RNA Area:	448.0	RNA Integrity Number (RIN):	9.5 (B.02.10)
RNA Concentration:	1,751 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]:	1.8	Result Flagging Label:	RIN: 9.50

**Fragment table for sample 4 : 0h IA6+1**

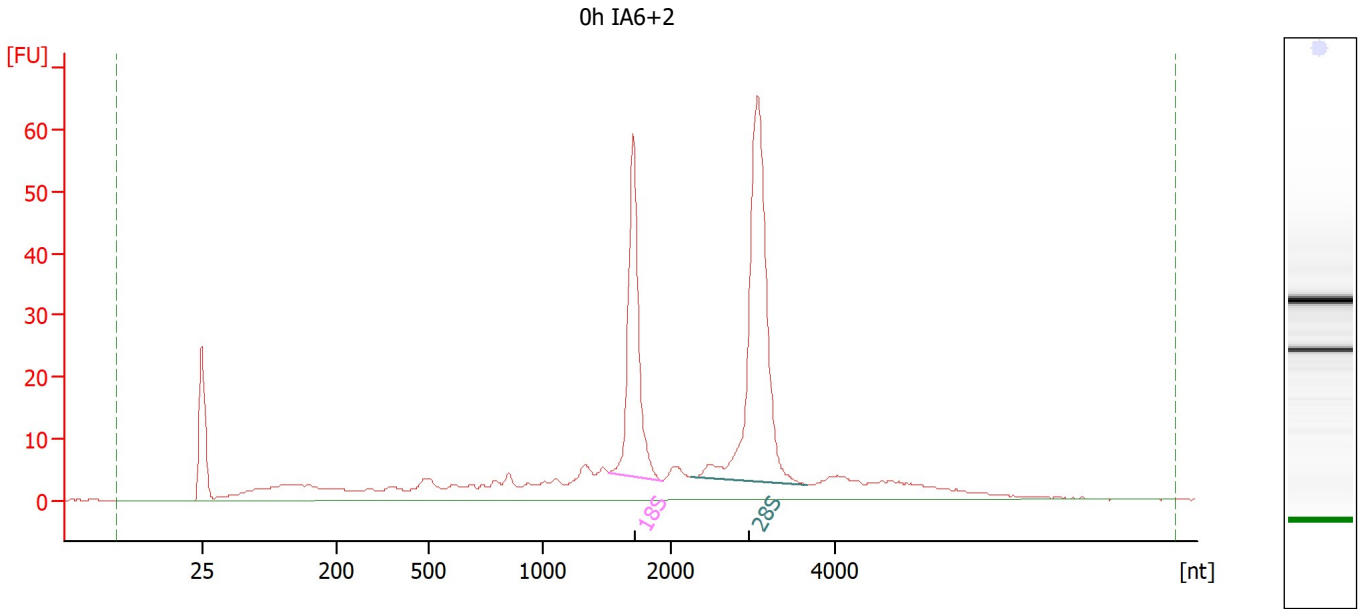
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,508	1,937	91.2	20.4
28S	2,645	3,661	160.2	35.8



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 0h IA6+2**

RNA Area:	429.7	RNA Integrity Number (RIN):	8.4 (B.02.10)
RNA Concentration:	1,679 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]:	1.7	Result Flagging Label:	RIN: 8.40

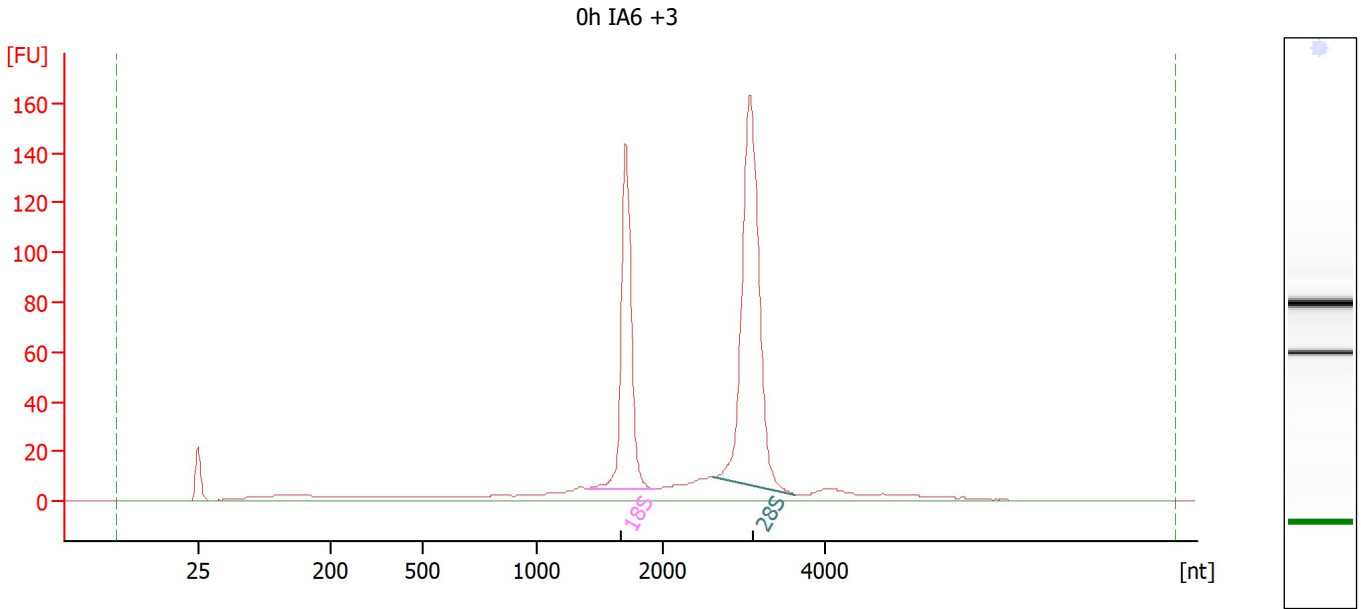
**Fragment table for sample 5 : 0h IA6+2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,519	1,930	69.7	16.2
28S	2,255	3,643	121.0	28.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 0h IA6 +3**

RNA Area:	744.0	RNA Integrity Number (RIN):	9.8 (B.02.10)
RNA Concentration:	2,907 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]:	1.7	Result Flagging Label:	RIN: 9.80

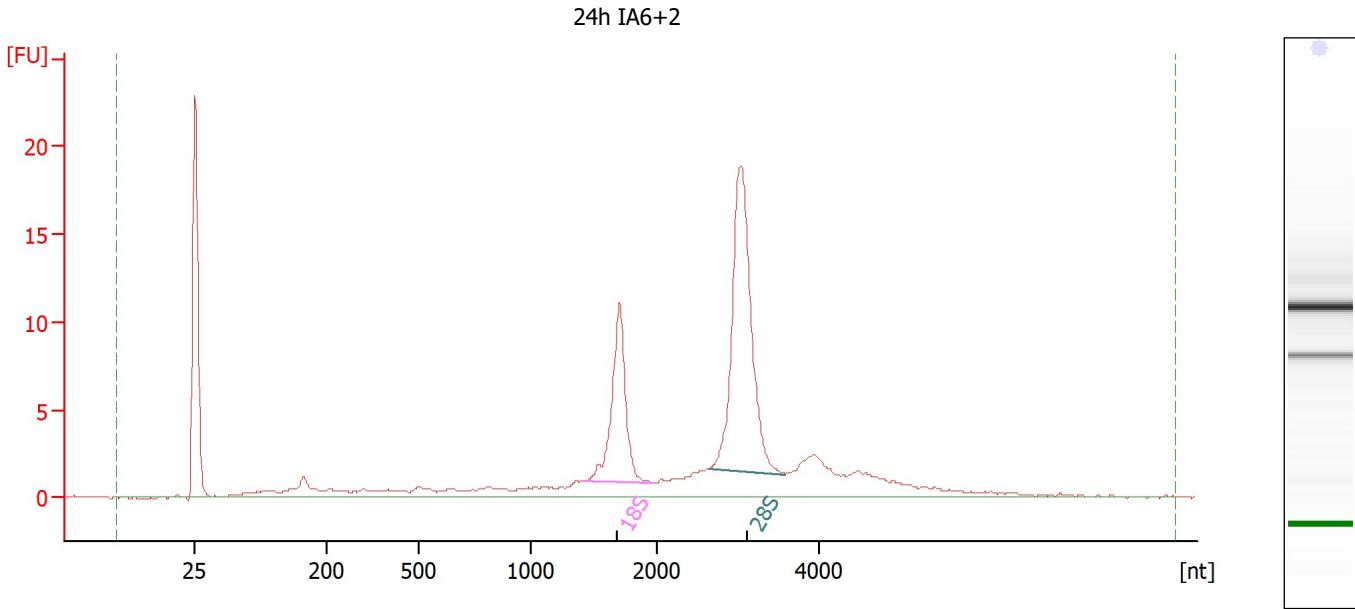
**Fragment table for sample 6 : 0h IA6 +3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,403	1,935	173.0	23.3
28S	2,620	3,627	293.4	39.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 24h IA6+2**

RNA Area:	115.3	RNA Integrity Number (RIN):	9.1 (B.02.10)
RNA Concentration:	451 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: 9.10

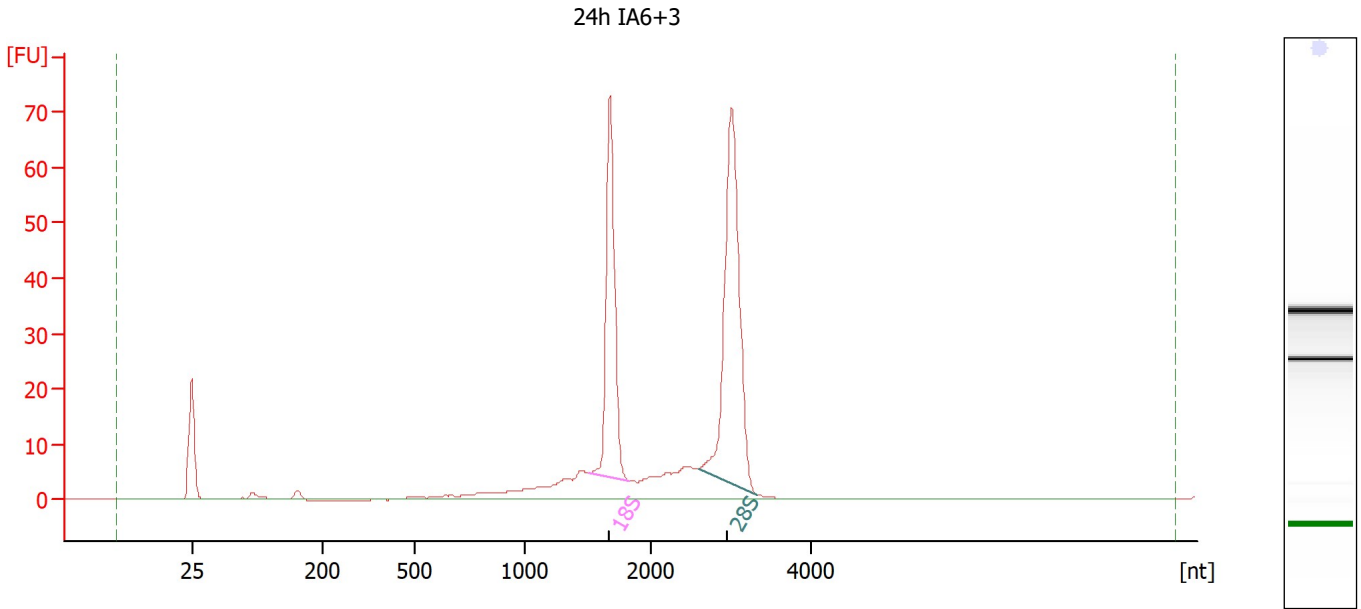
**Fragment table for sample 7 : 24h IA6+2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,414	1,967	17.6	15.2
28S	2,647	3,595	36.5	31.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 24h IA6+3**

RNA Area:	301.3	RNA Integrity Number (RIN):	9.4 (B.02.10)
RNA Concentration:	1,177 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]:	1.5	Result Flagging Label:	RIN: 9.40

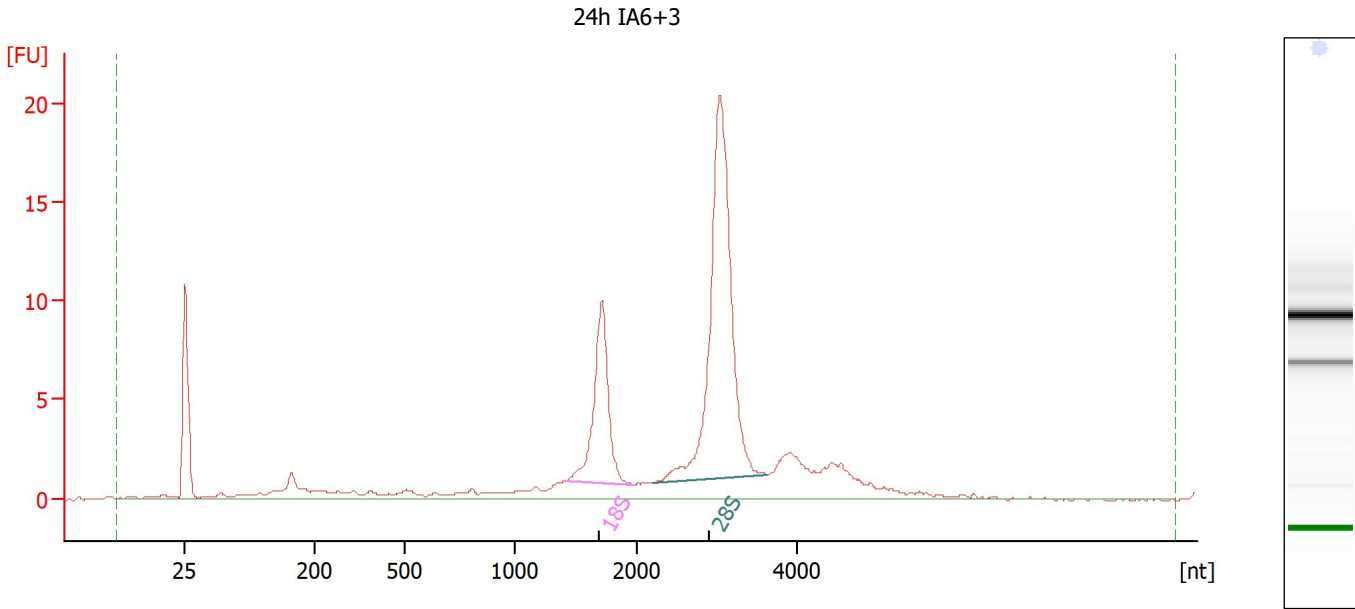
**Fragment table for sample 8 : 24h IA6+3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,503	1,837	74.1	24.6
28S	2,596	3,312	112.3	37.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 24h IA6+3**

RNA Area:	119.0	RNA Integrity Number (RIN):	9.4 (B.02.10)
RNA Concentration:	465 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]:	2.6	Result Flagging Label:	RIN: 9.40

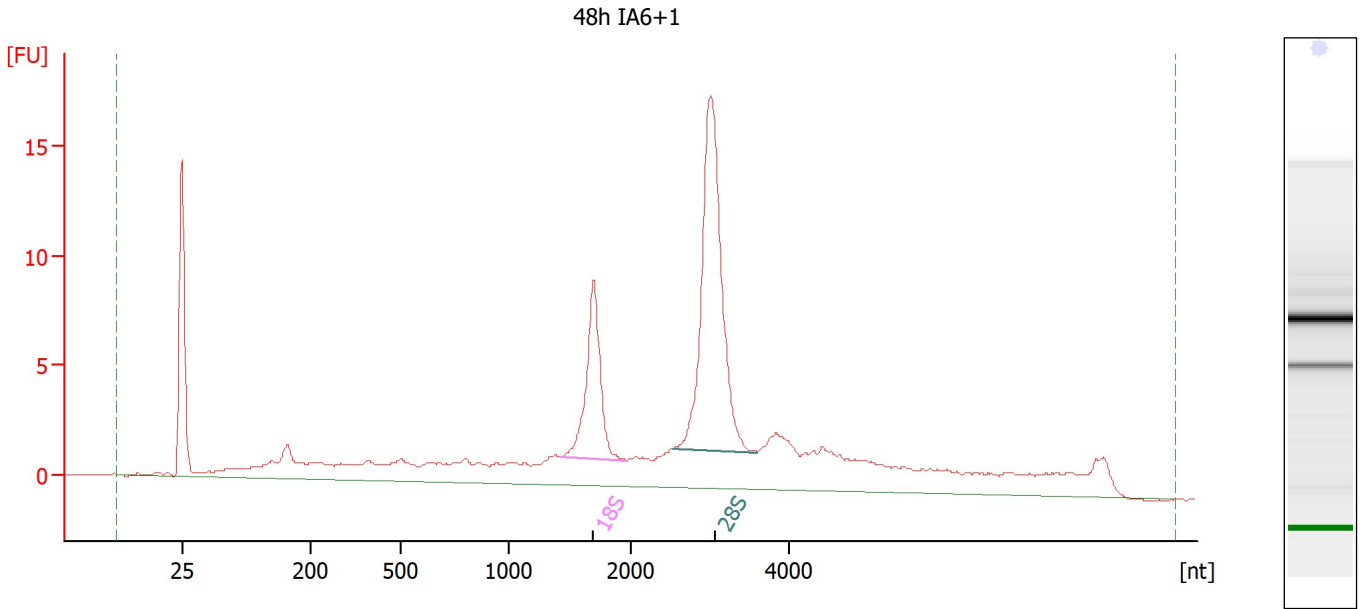
**Fragment table for sample 9 : 24h IA6+3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,415	1,961	17.3	14.5
28S	2,196	3,619	45.6	38.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 48h IA6+1**

RNA Area:	159.7	RNA Integrity Number (RIN):	8.5 (B.02.10)
RNA Concentration:	624 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]:	2.5	Result Flagging Label:	RIN: 8.50

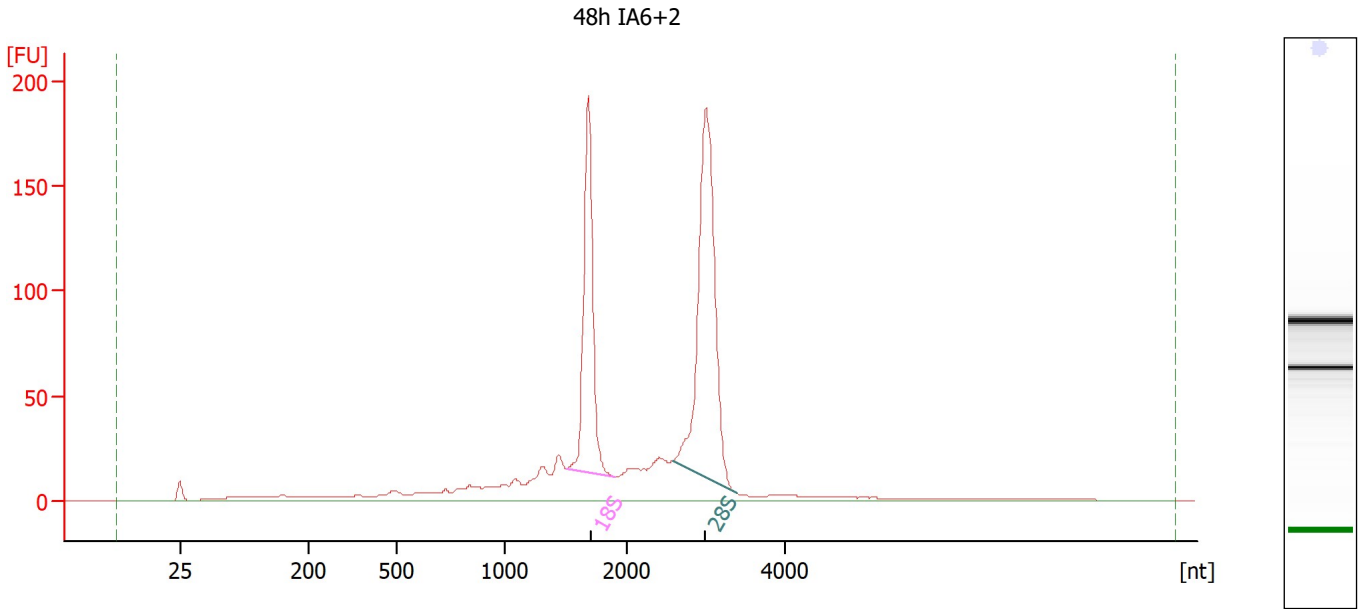
**Fragment table for sample 10 : 48h IA6+1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,418	1,968	14.7	9.2
28S	2,532	3,586	36.1	22.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
 Modified: 2/18/2020 3:59:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 48h IA6+2**

RNA Area:	1,059.0	RNA Integrity Number (RIN):	8.6 (B.02.10)
RNA Concentration:	4,138 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]:	1.6	Result Flagging Label:	RIN: 8.60

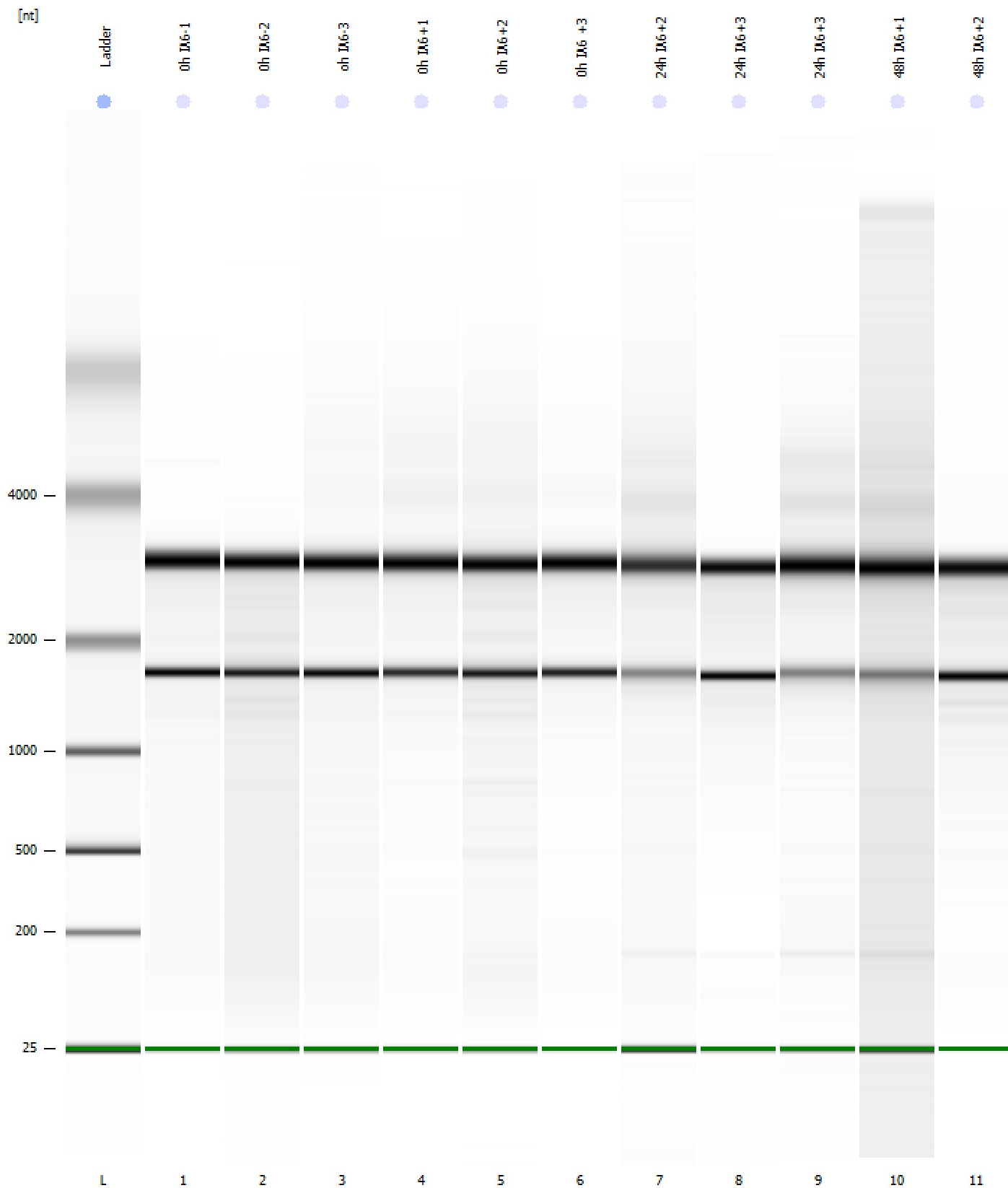
**Fragment table for sample 11 : 48h IA6+2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,502	1,897	213.3	20.1
28S	2,573	3,402	337.7	31.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad

Created: 2/18/2020 3:15:43 PM  
Modified: 2/18/2020 3:59:55 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico Created: 2/18/2020 3:15:43 PM  
 Data Path: Z:\...18\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-02-18\_001.xad Modified: 2/18/2020 3:59:55 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		2/18/2020 3:38:38 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-02-18\Bioanalyze r1_Eukaryote Total RNA Pico_2020-02-18_001.xad)		Instrument	Run		2/18/2020 3:15:49 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		2/18/2020 3:15:49 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		2/18/2020 3:15:49 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		2/18/2020 3:15:49 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		2/18/2020 3:15:49 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		2/18/2020 3:15:49 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		2/18/2020 3:15:49 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB