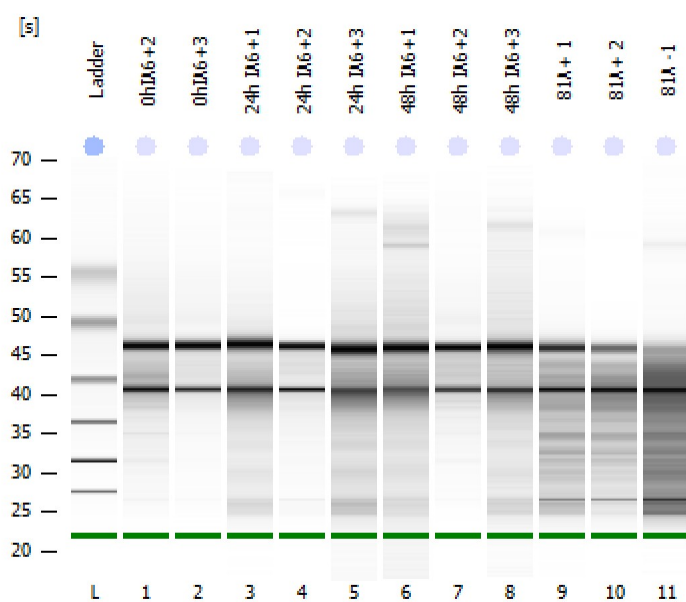


Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

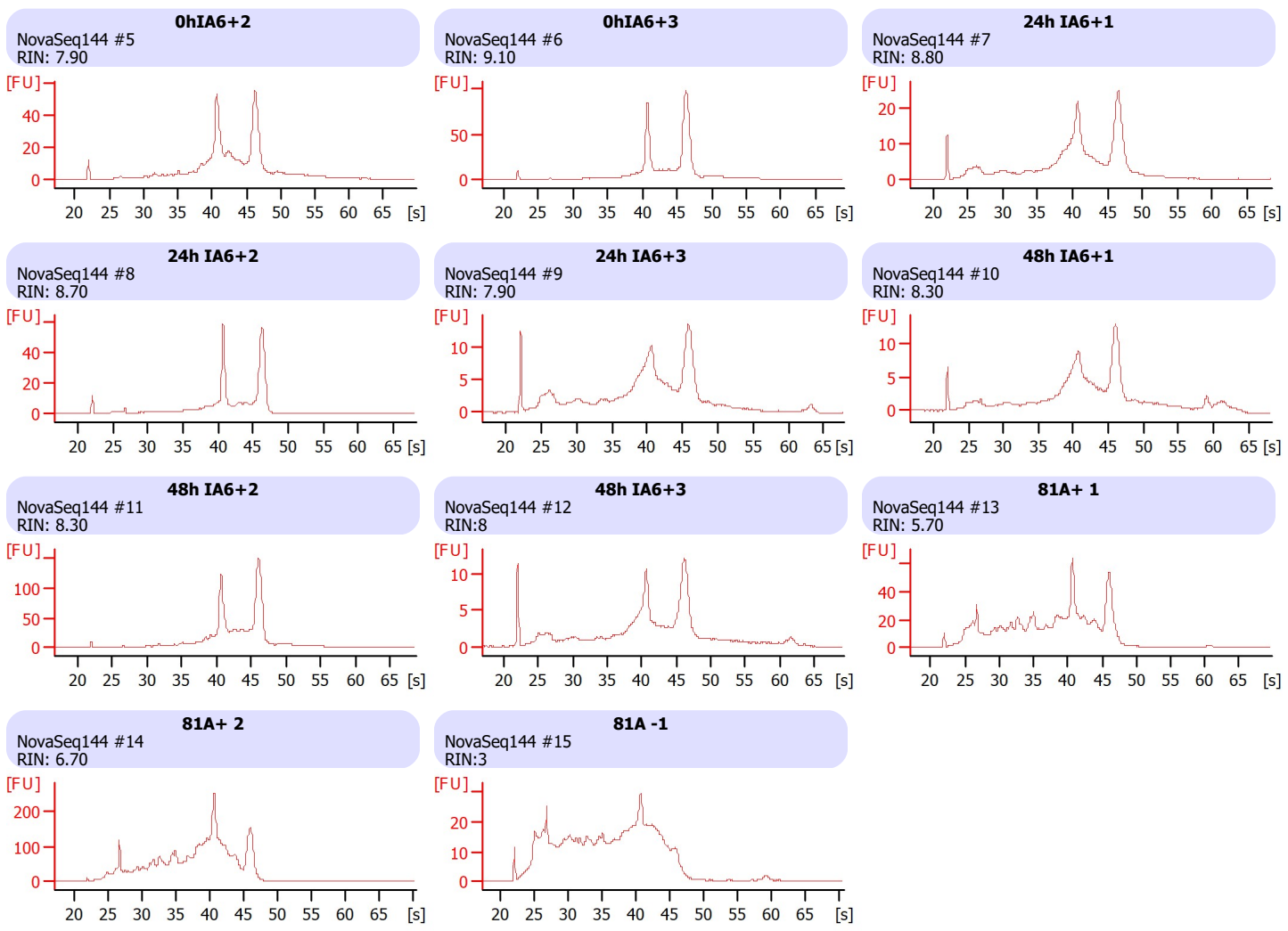
**Electrophoresis File Run Summary**



**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)  
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

**Chip Information:**  
 Chip Lot #:   
 Reagent Kit Lot #:   
 Chip Comments:



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
0hIA6+2	NovaSeq144 #5	✓	RIN: 7.90	
0hIA6+3	NovaSeq144 #6	✓	RIN: 9.10	
24h IA6+1	NovaSeq144 #7	✓	RIN: 8.80	
24h IA6+2	NovaSeq144 #8	✓	RIN: 8.70	
24h IA6+3	NovaSeq144 #9	✓	RIN: 7.90	
48h IA6+1	NovaSeq144 #10	✓	RIN: 8.30	
48h IA6+2	NovaSeq144 #11	✓	RIN: 8.30	
48h IA6+3	NovaSeq144 #12	✓	RIN:8	
81A+ 1	NovaSeq144 #13	✓	RIN: 5.70	
81A+ 2	NovaSeq144 #14	✓	RIN: 6.70	
81A -1	NovaSeq144 #15	✓	RIN:3	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 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

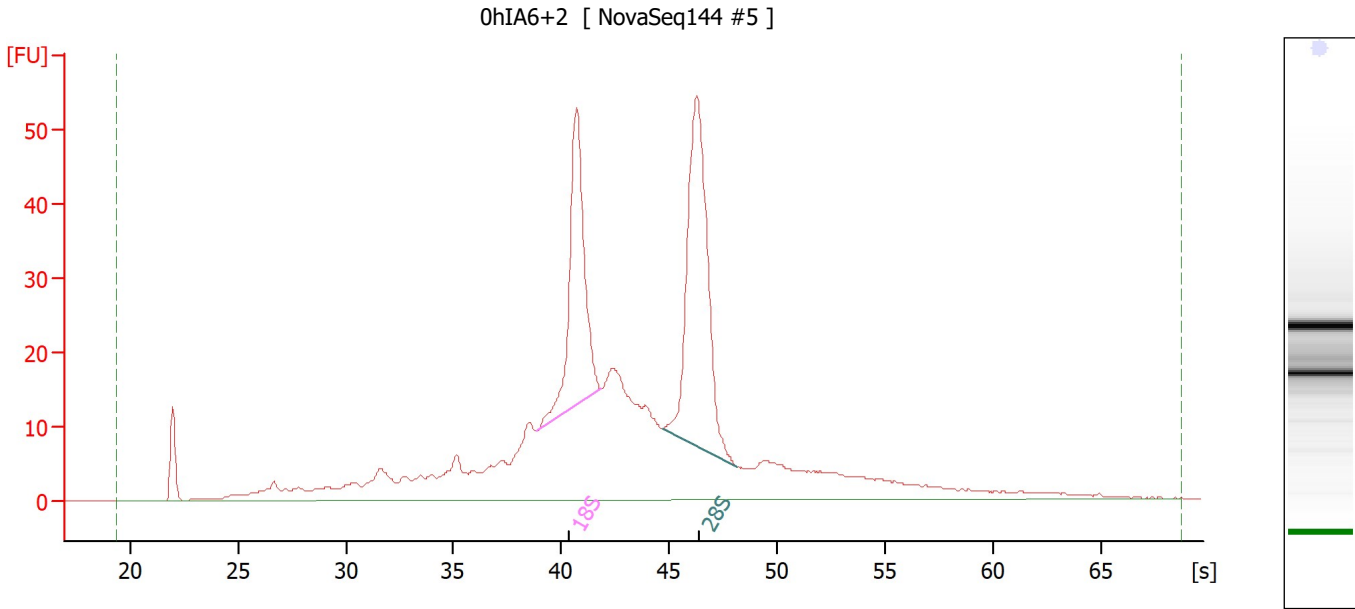
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary**



**Overall Results for sample 1 : 0hIA6+2**

RNA Area:	621.8	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	2,956 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: 7.90

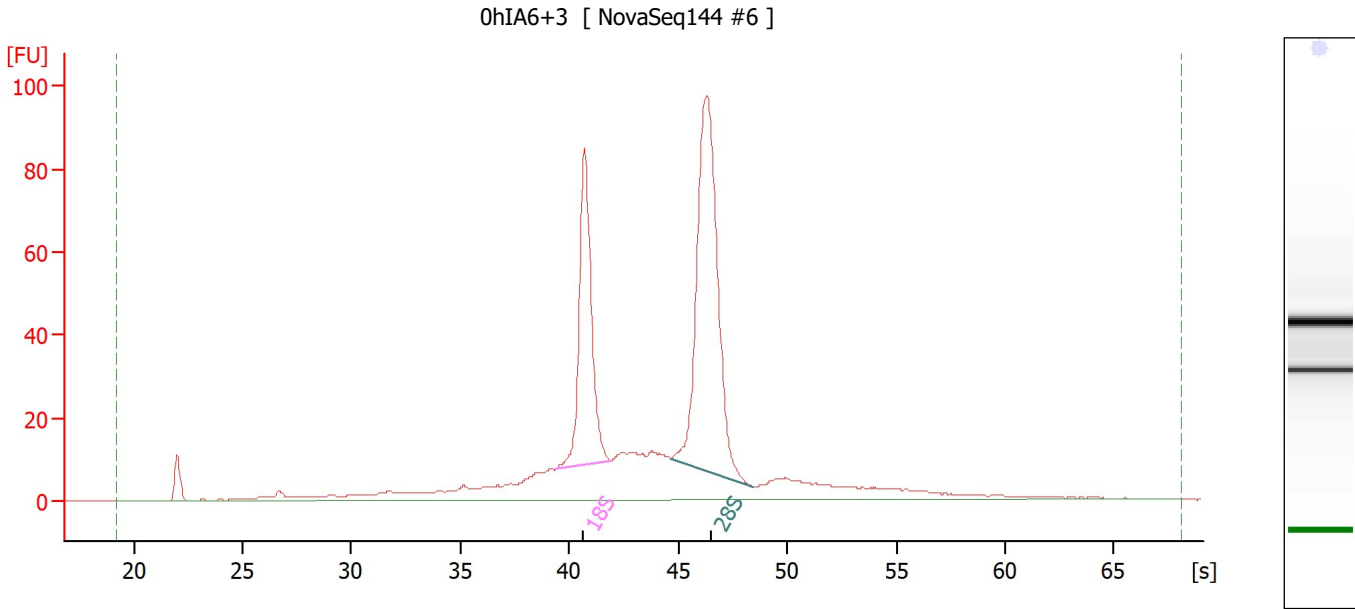
**Fragment table for sample 1 : 0hIA6+2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.87	41.81	76.5	12.3
28S	44.70	48.08	110.1	17.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 0hIA6+3**

RNA Area:	672.7	RNA Integrity Number (RIN):	9.1 (B.02.10)
RNA Concentration:	3,198 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: 9.10

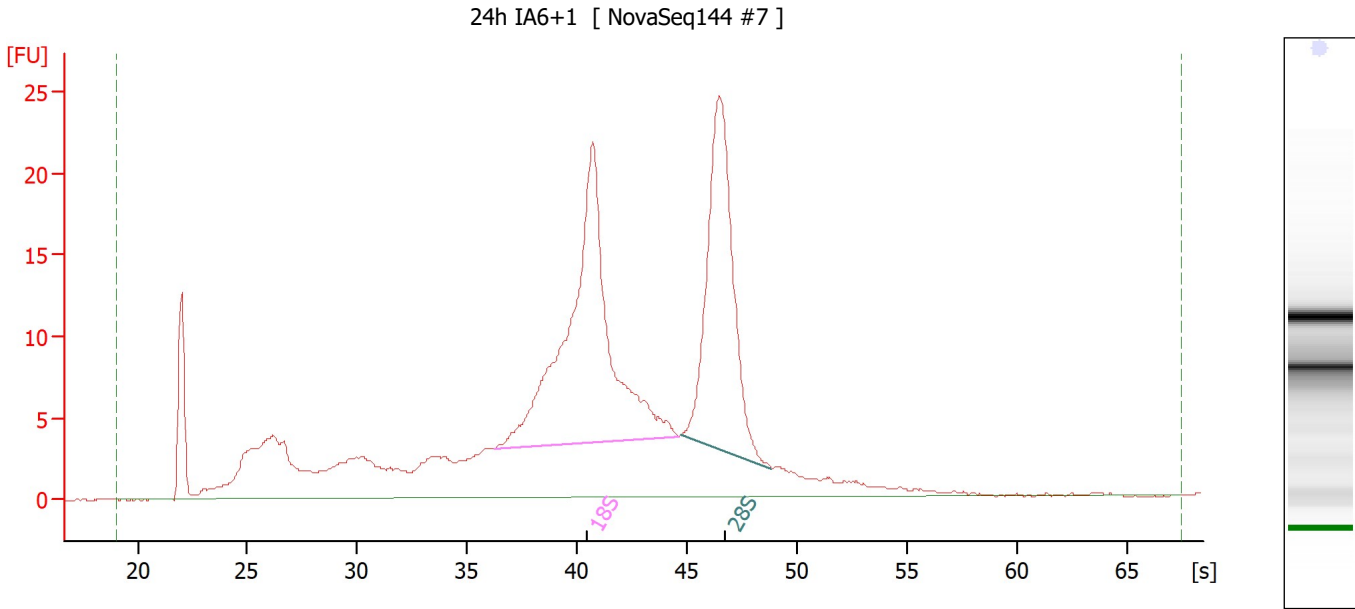
**Fragment table for sample 2 : 0hIA6+3**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.36	41.93	120.7	17.9
28S	44.64	48.44	215.6	32.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 24h IA6+1**

RNA Area:	363.1	RNA Integrity Number (RIN):	8.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,726 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]:	0.7	Result Flagging Label:	RIN: 8.80

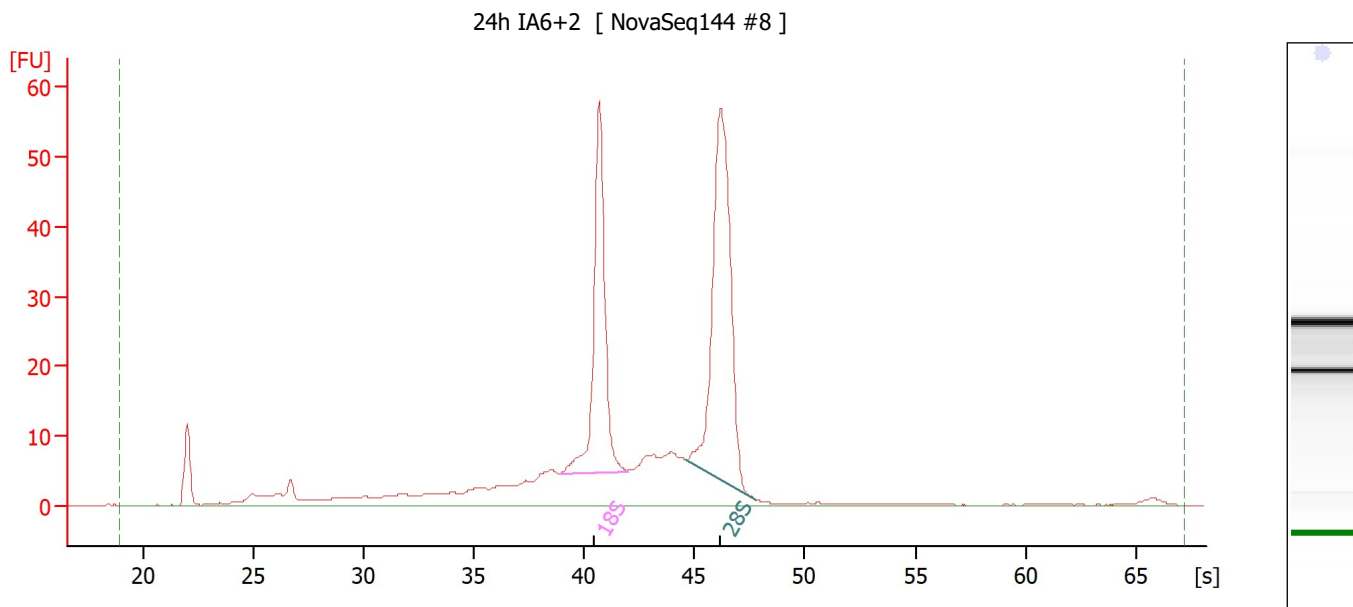
**Fragment table for sample 3 : 24h IA6+1**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	36.23	44.64	93.4	25.7
28S	44.73	48.84	63.2	17.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 24h IA6+2**

RNA Area:	383.3	RNA Integrity Number (RIN):	8.7 (B.02.10)
RNA Concentration:	1,822 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: 8.70

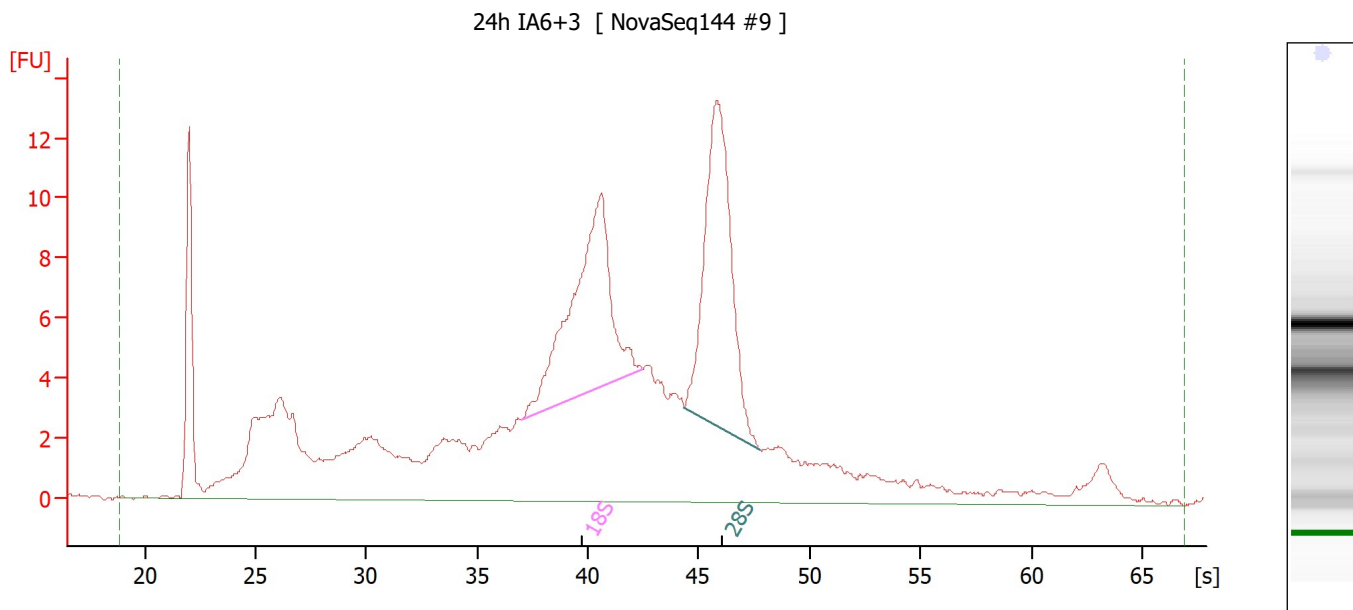
**Fragment table for sample 4 : 24h IA6+2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.89	41.96	76.2	19.9
28S	44.63	47.75	109.8	28.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 24h IA6+3**

RNA Area:	257.8	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	1,226 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: 7.90

**Fragment table for sample 5 : 24h IA6+3**

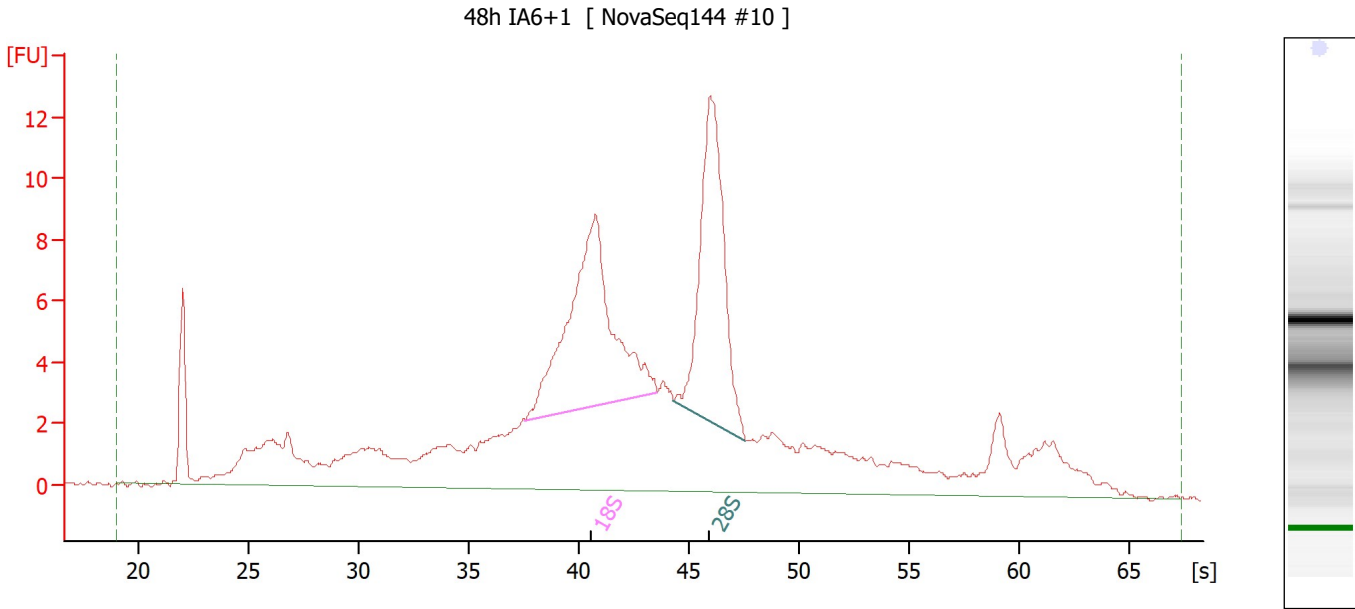
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.02	42.45	32.5	12.6
28S	44.34	47.78	32.9	12.8



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 48h IA6+1**

RNA Area:	217.4	RNA Integrity Number (RIN):	8.3 (B.02.10)
RNA Concentration:	1,034 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: 8.30

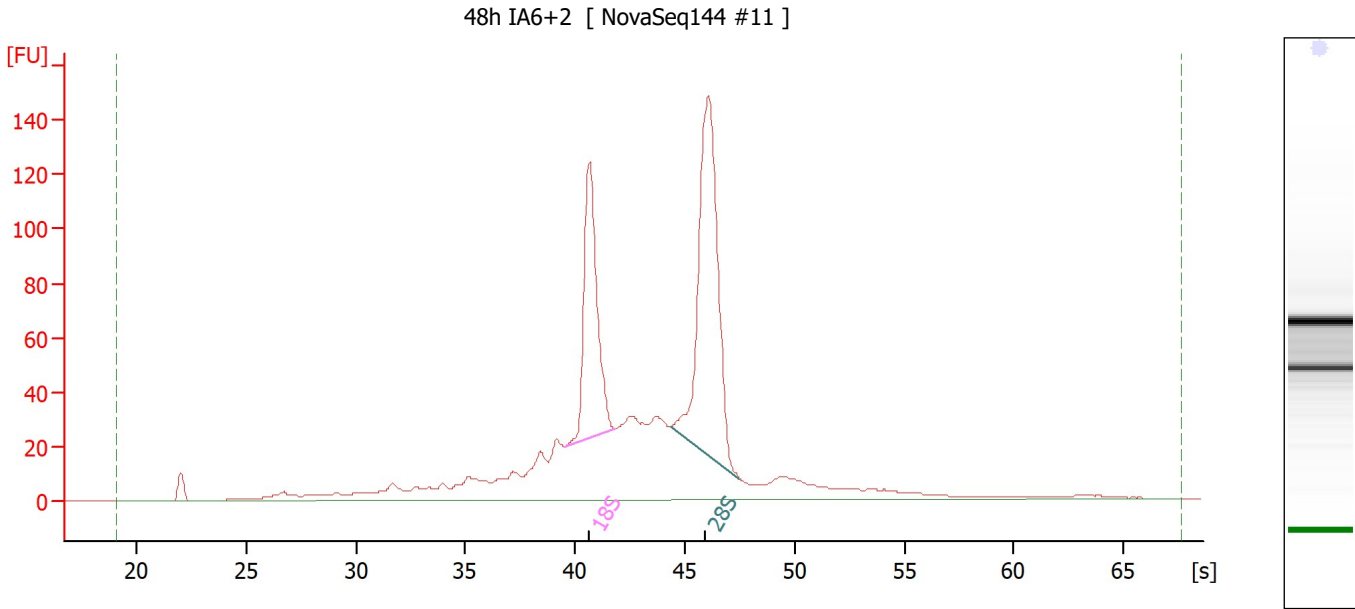
**Fragment table for sample 6 : 48h IA6+1**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.56	43.56	34.4	15.8
28S	44.29	47.56	28.8	13.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 48h IA6+2**

RNA Area:	1,218.8	RNA Integrity Number (RIN):	8.3 (B.02.10)
RNA Concentration:	5,794 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: 8.30

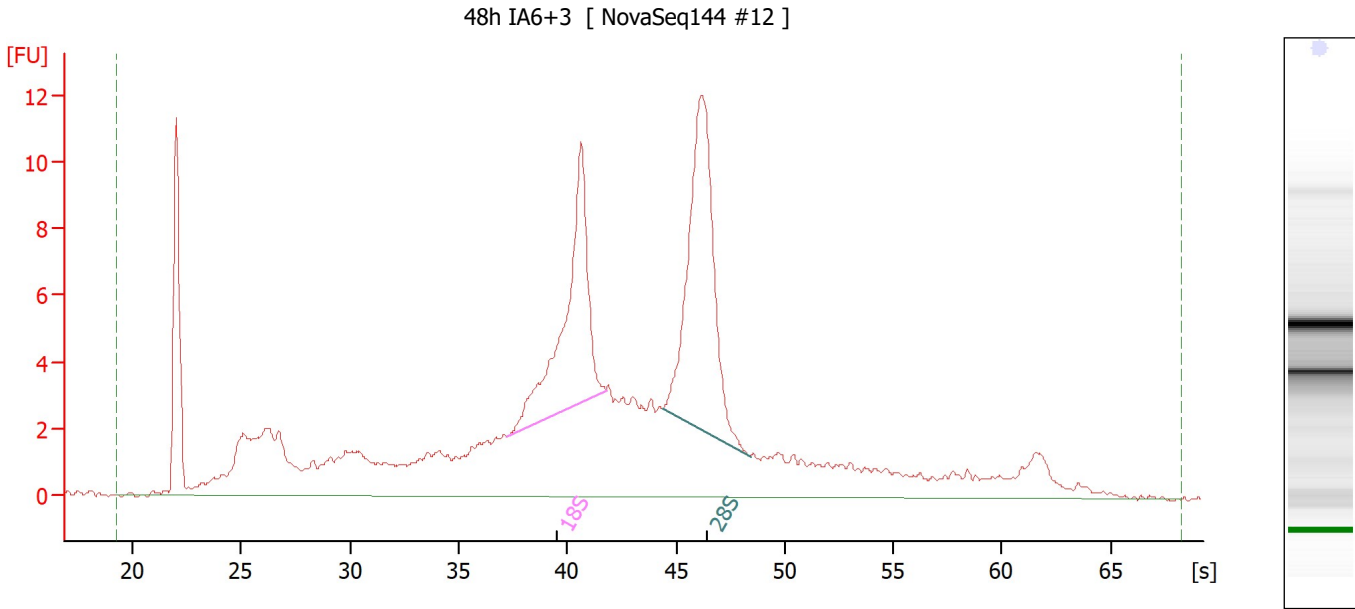
**Fragment table for sample 7 : 48h IA6+2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.54	41.80	167.7	13.8
28S	44.34	47.48	292.8	24.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 48h IA6+3**

RNA Area:	195.7	RNA Integrity Number (RIN):	8 (B.02.10)
RNA Concentration:	930 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]:	1.3	Result Flagging Label:	RIN:8

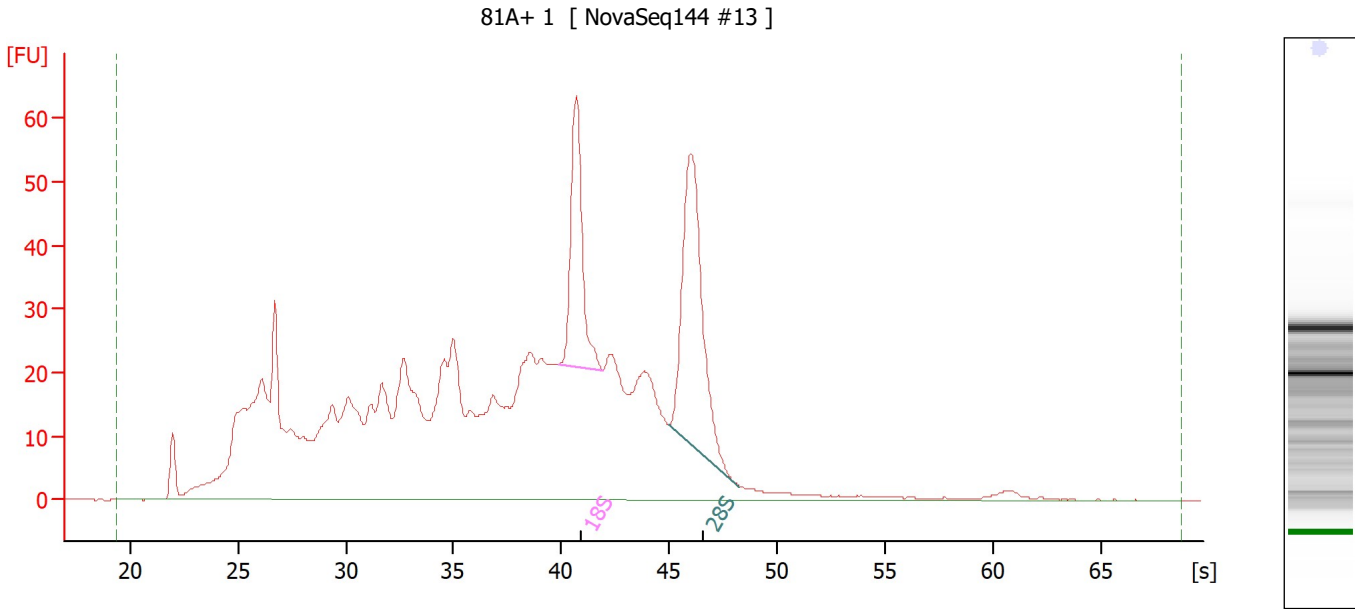
**Fragment table for sample 8 : 48h IA6+3**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.23	41.78	22.7	11.6
28S	44.40	48.40	29.4	15.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 81A+ 1**

RNA Area:	1,242.4	RNA Integrity Number (RIN):	5.7 (B.02.10)
RNA Concentration:	5,906 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: 5.70

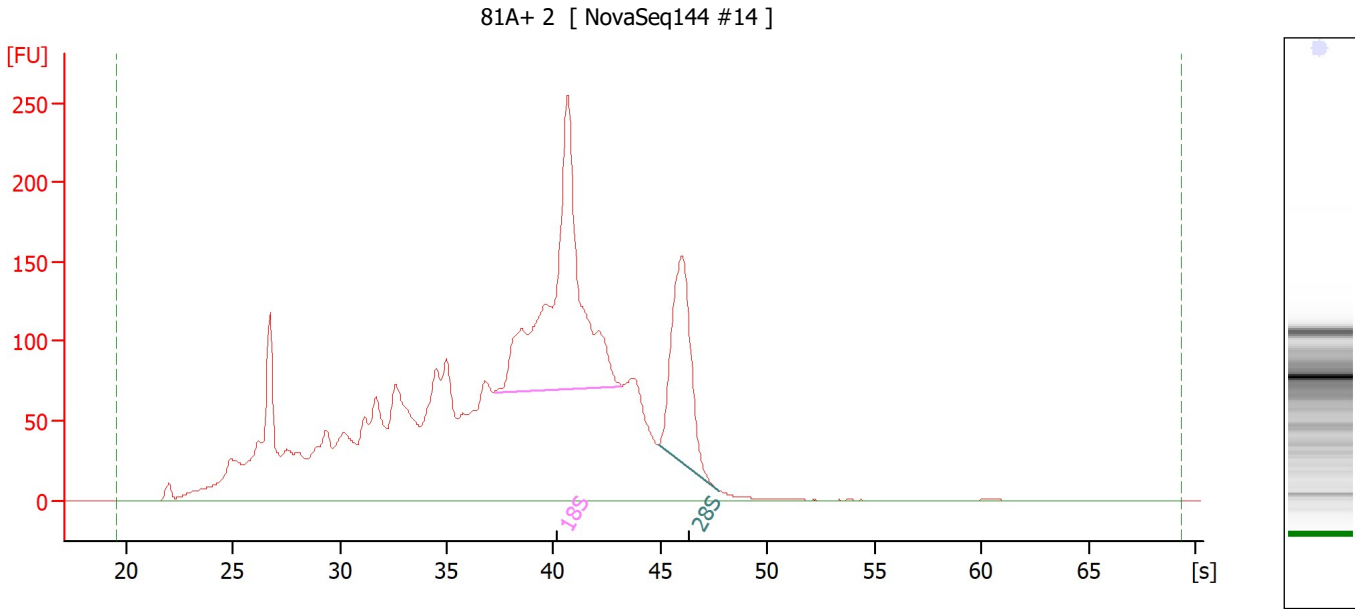
**Fragment table for sample 9 : 81A+ 1**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.87	41.91	62.7	5.0
28S	45.00	48.23	106.4	8.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 81A+ 2**

RNA Area:	4,393.5	RNA Integrity Number (RIN):	6.7 (B.02.10)
RNA Concentration:	20,888 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]:	0.4	Result Flagging Label:	RIN: 6.70

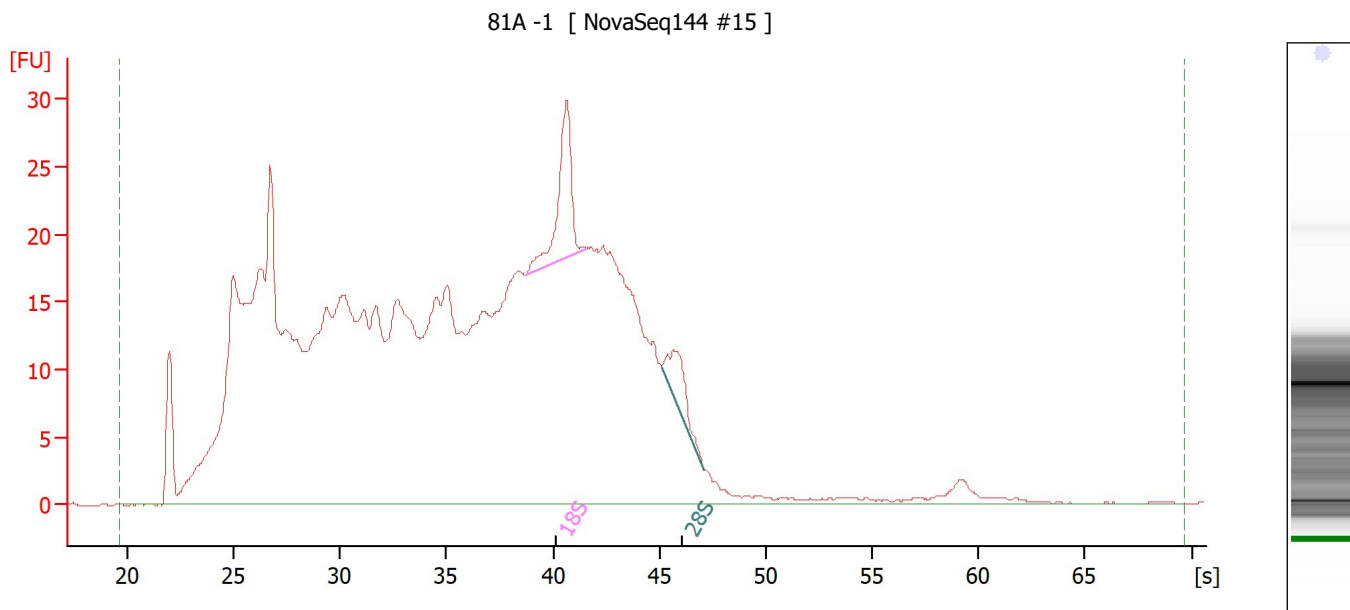
**Fragment table for sample 10 : 81A+ 2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.22	43.15	694.9	15.8
28S	44.90	47.77	294.8	6.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 81A -1**

RNA Area:	1,005.2	RNA Integrity Number (RIN):	3 (B.02.10)
RNA Concentration:	4,779 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]:	0.4	Result Flagging Label:	RIN:3

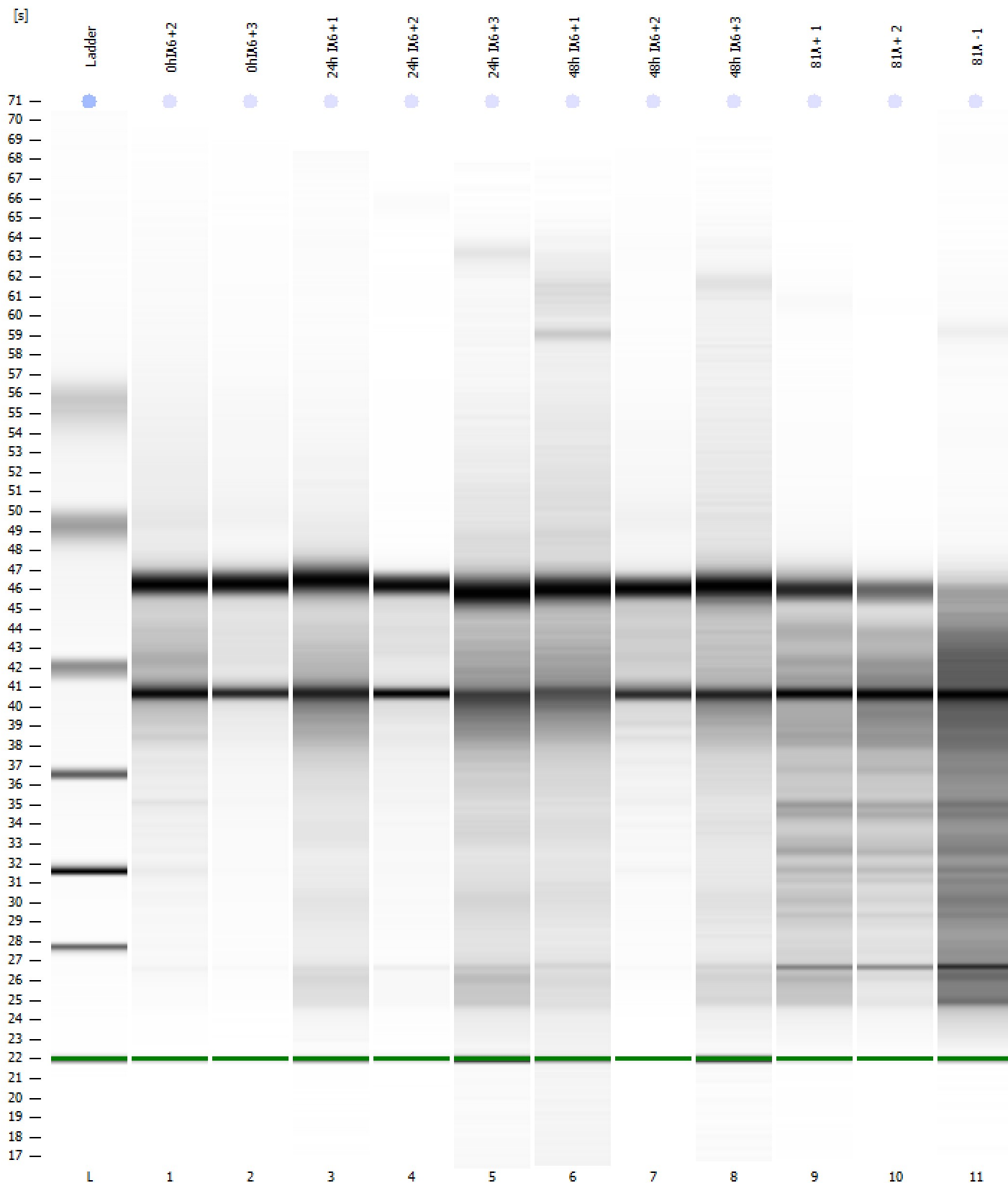
**Fragment table for sample 11 : 81A -1**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.75	41.58	20.5	2.0
28S	45.11	47.13	8.0	0.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
Modified: 12/20/2019 2:11:36 PM

**Gel Image**

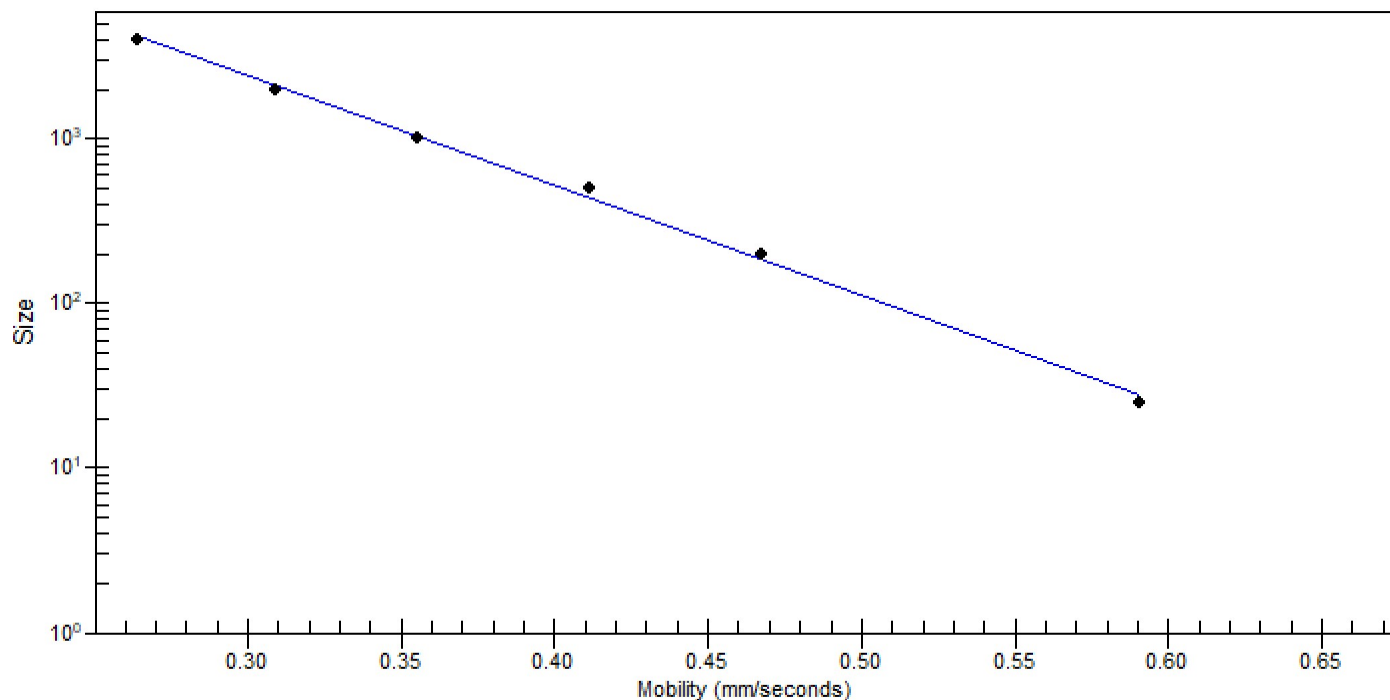


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
Modified: 12/20/2019 2:11:36 PM

**Curves**

**Standard Curve**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...20\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-20\_002.xad

Created: 12/20/2019 1:45:07 PM  
 Modified: 12/20/2019 2:11:36 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		12/20/2019 2:08:01 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-20\Bioanalyze r1_Eukaryote Total RNA Pico_2019-12-20_002.xad)		Instrument	Run		12/20/2019 1:45:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/20/2019 1:45:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/20/2019 1:45:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/20/2019 1:45:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/20/2019 1:45:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/20/2019 1:45:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/20/2019 1:45:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB