

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electrophoresis File Run Summary**

Instrument Information:

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

Assay Information:

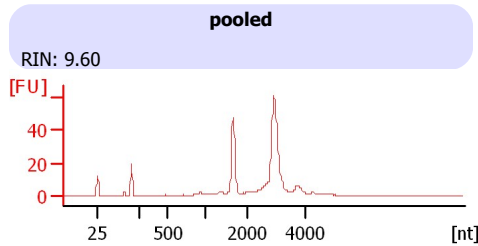
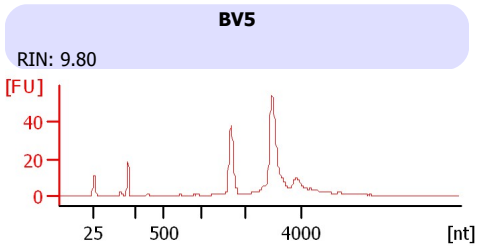
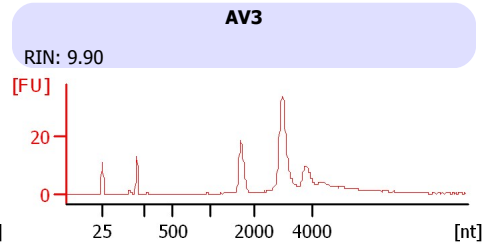
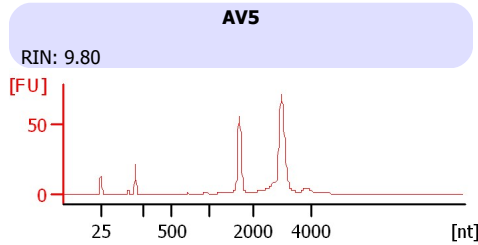
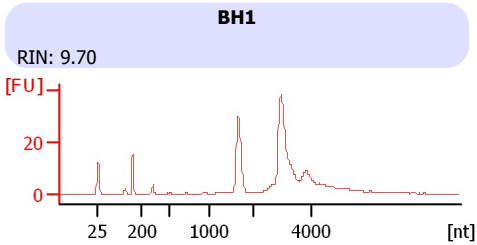
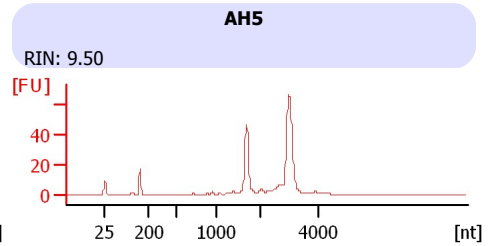
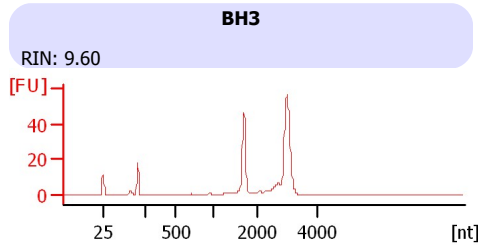
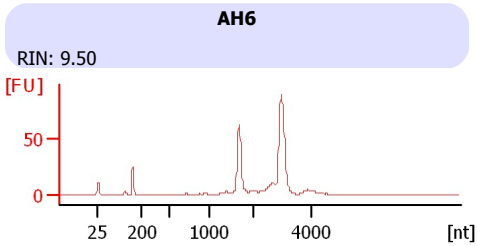
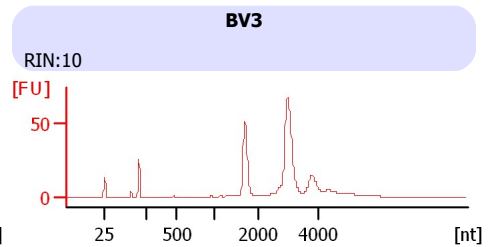
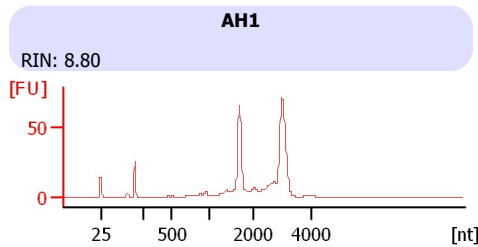
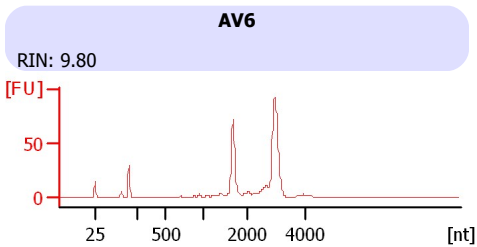
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

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: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
AV6		✓	RIN: 9.80	
AH1		✓	RIN: 8.80	
BV3		✓	RIN:10	
AH6		✓	RIN: 9.50	
BH3		✓	RIN: 9.60	
AH5		✓	RIN: 9.50	
BH1		✓	RIN: 9.70	
AV5		✓	RIN: 9.80	
AV3		✓	RIN: 9.90	
BV5		✓	RIN: 9.80	
pooled		✓	RIN: 9.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**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

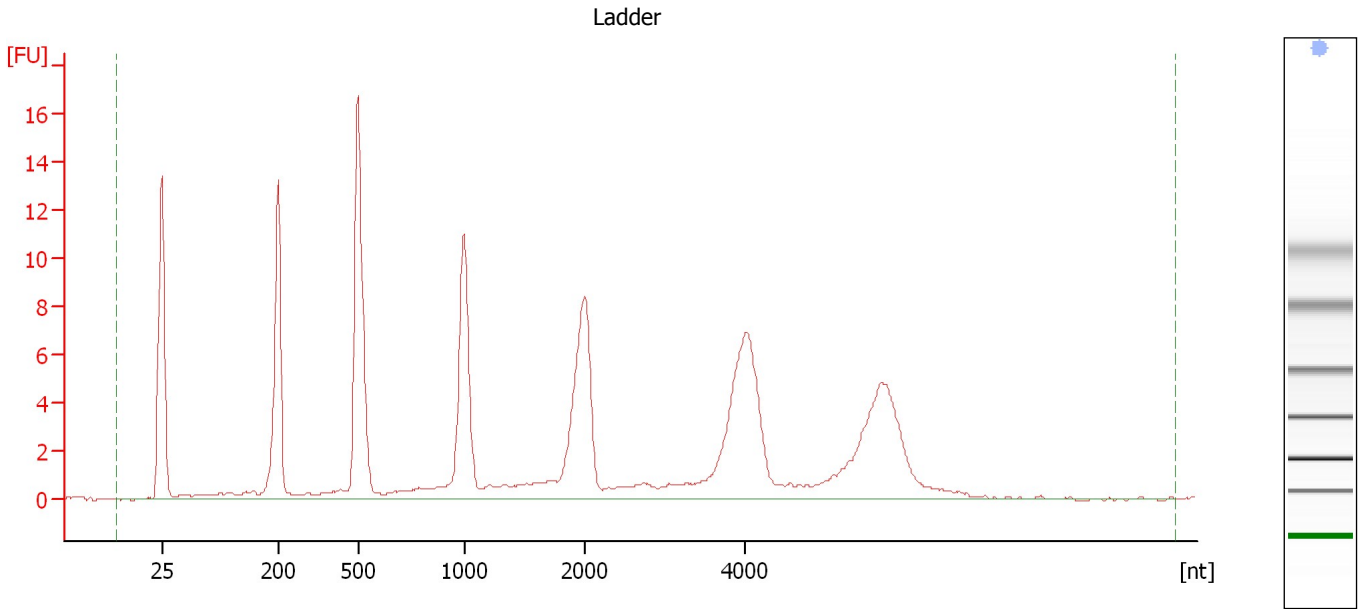
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary**



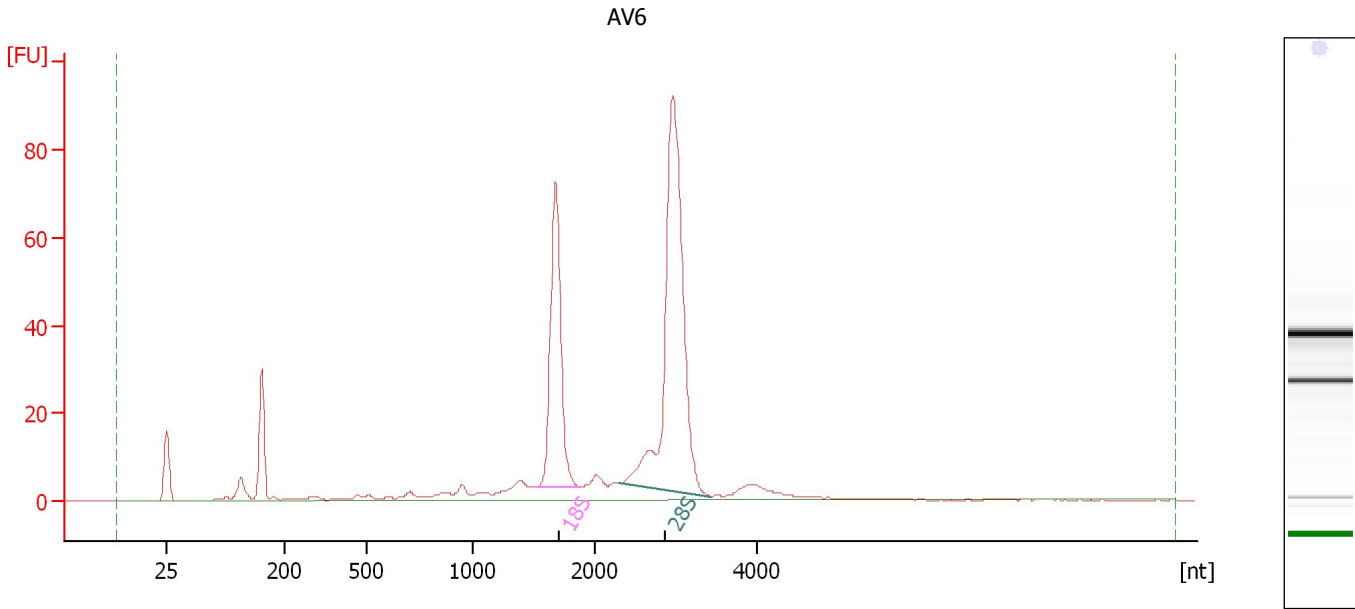
**Overall Results for Ladder**

RNA Area:	144.5	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:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : AV6**

RNA Area: 452.2                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 3,129 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0                      Result Flagging Label: RIN: 9.80

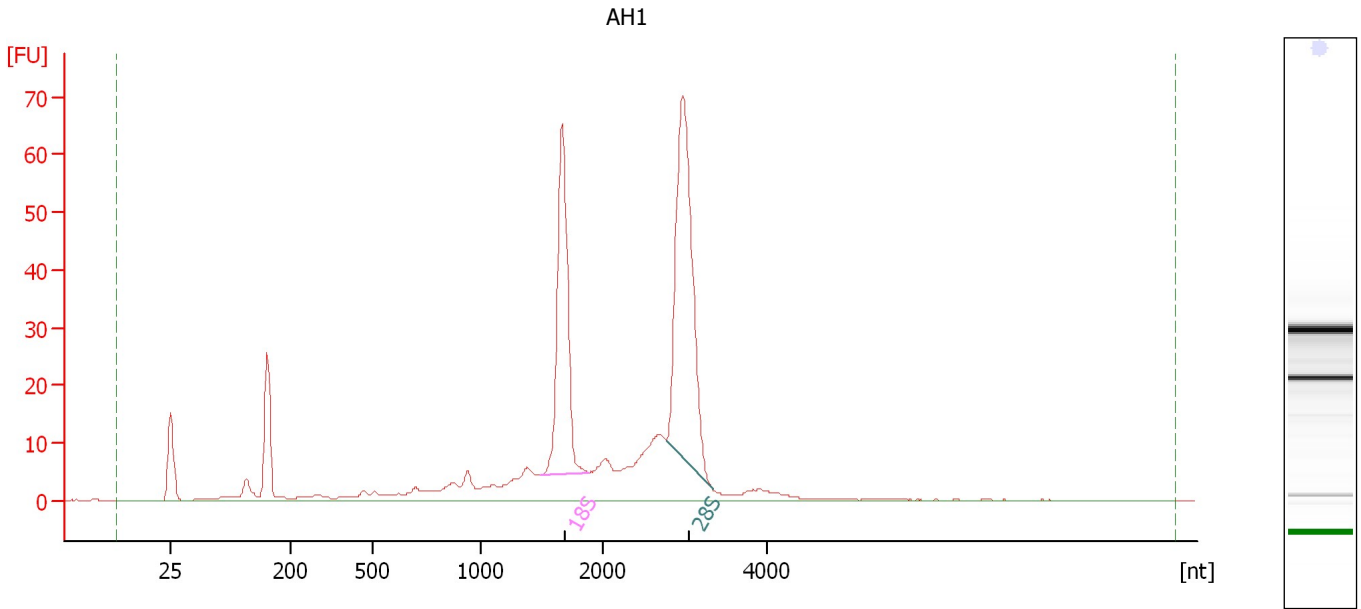
**Fragment table for sample 1 : AV6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,513	1,889	97.5	21.6
28S	2,295	3,429	192.7	42.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : AH1**

RNA Area:	444.3	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	3,074 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: 8.80

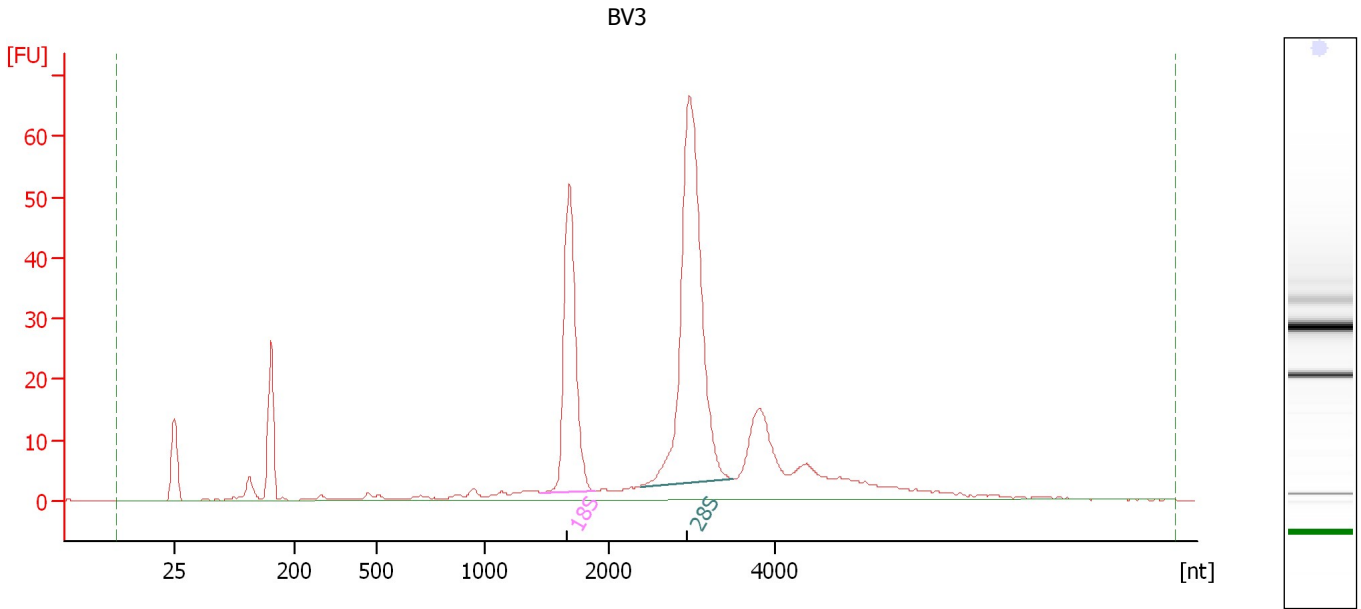
**Fragment table for sample 2 : AH1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,495	1,876	83.9	18.9
28S	2,767	3,328	121.3	27.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : BV3**

RNA Area: 423.4                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 2,929 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9                      Result Flagging Label: RIN:10

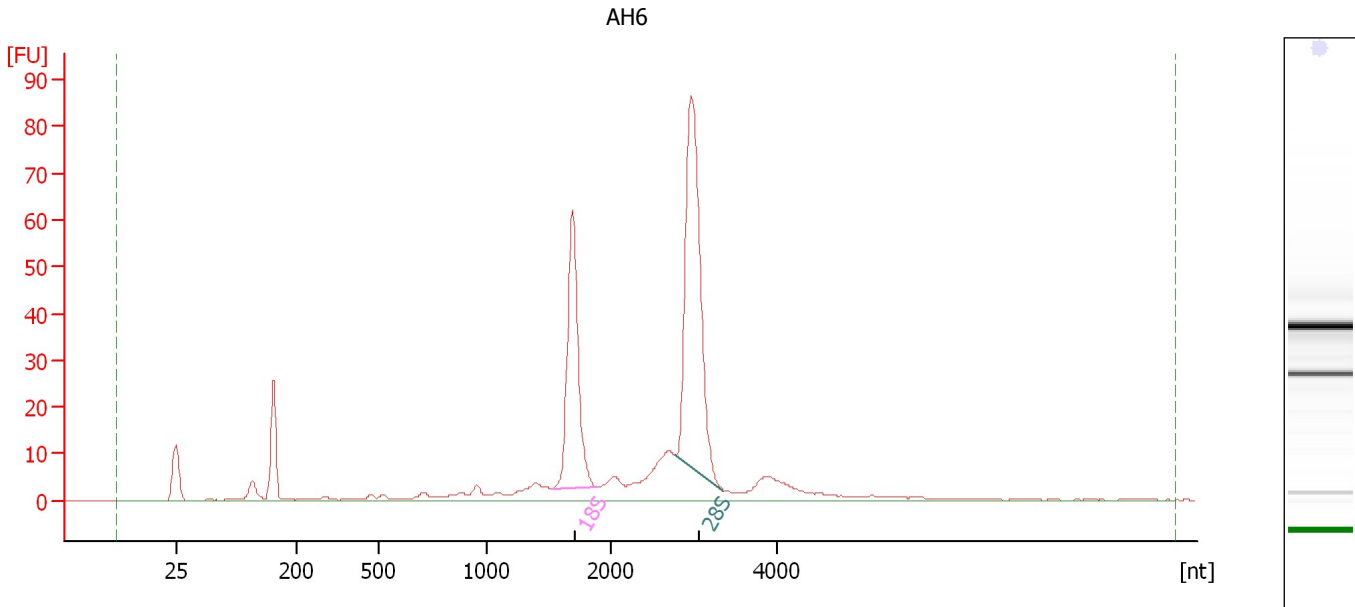
**Fragment table for sample 3 : BV3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,448	1,879	78.0	18.4
28S	2,376	3,491	151.1	35.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : AH6**

RNA Area:	422.9	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	2,926 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: 9.50

**Fragment table for sample 4 : AH6**

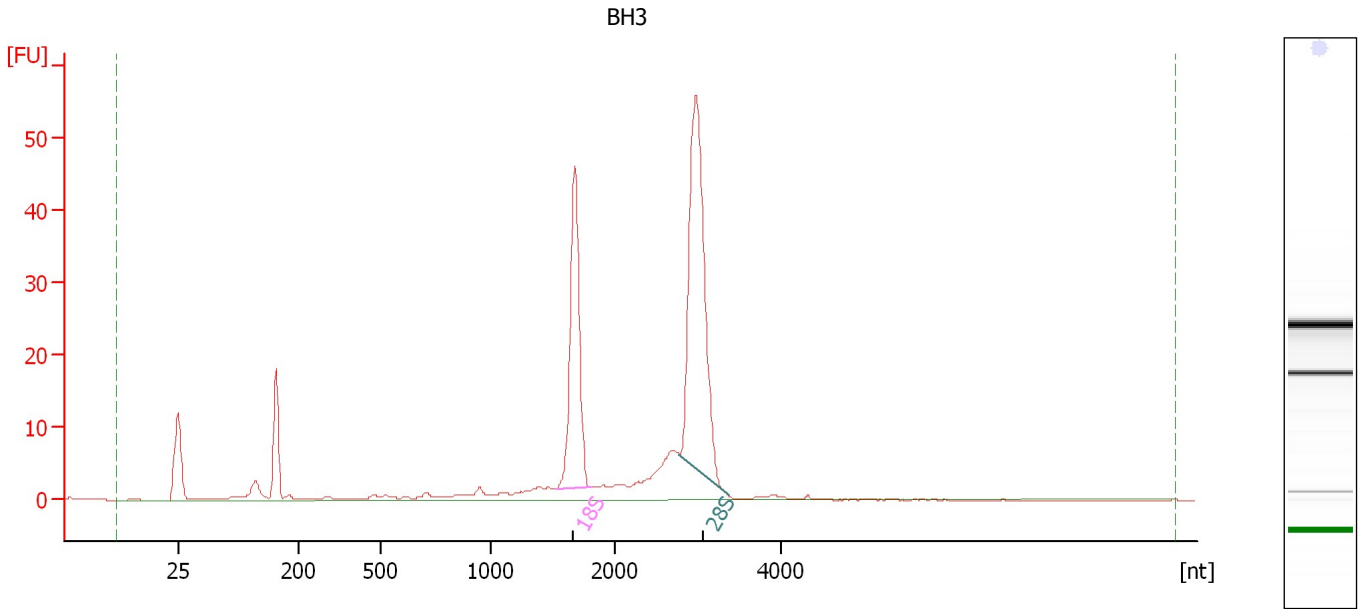
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,519	1,889	85.2	20.2
28S	2,777	3,360	136.4	32.2



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : BH3**

RNA Area: 245.8                      RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 1,701 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN: 9.60

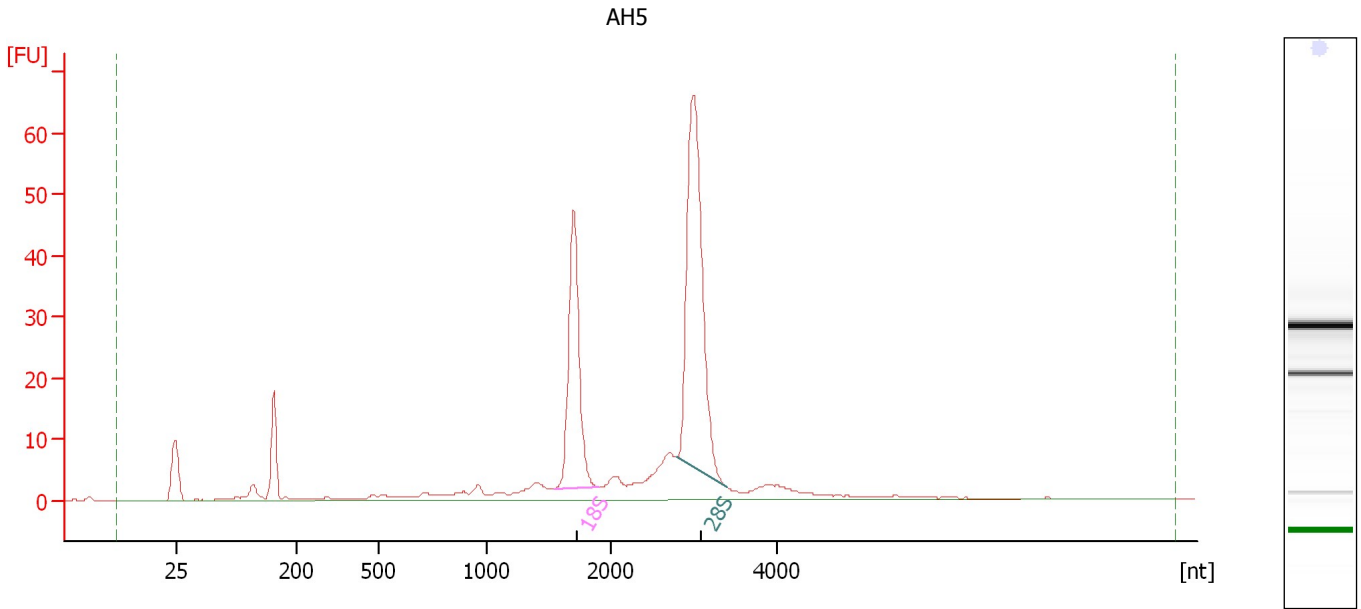
**Fragment table for sample 5 : BH3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,523	1,796	55.4	22.5
28S	2,763	3,356	91.2	37.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : AH5**

RNA Area: 320.4                      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 2,217 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7                      Result Flagging Label: RIN: 9.50

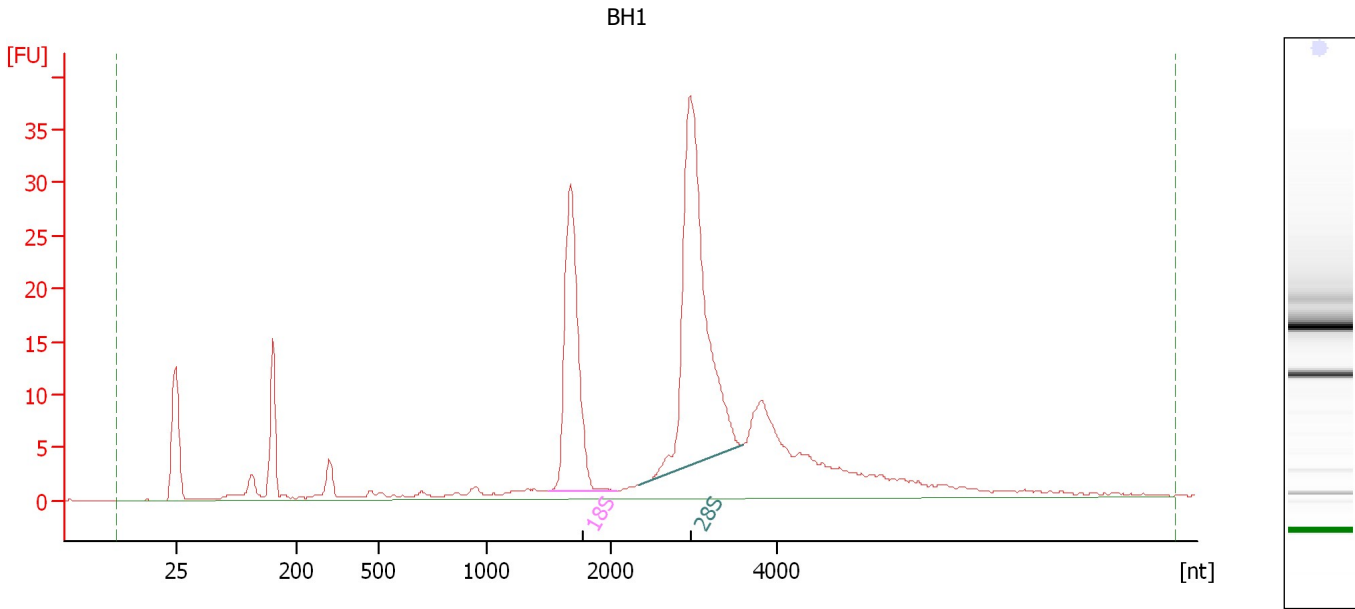
**Fragment table for sample 6 : AH5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,536	1,897	64.2	20.0
28S	2,790	3,399	108.5	33.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
 Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : BH1**

RNA Area:	292.3	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	2,022 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: 9.70

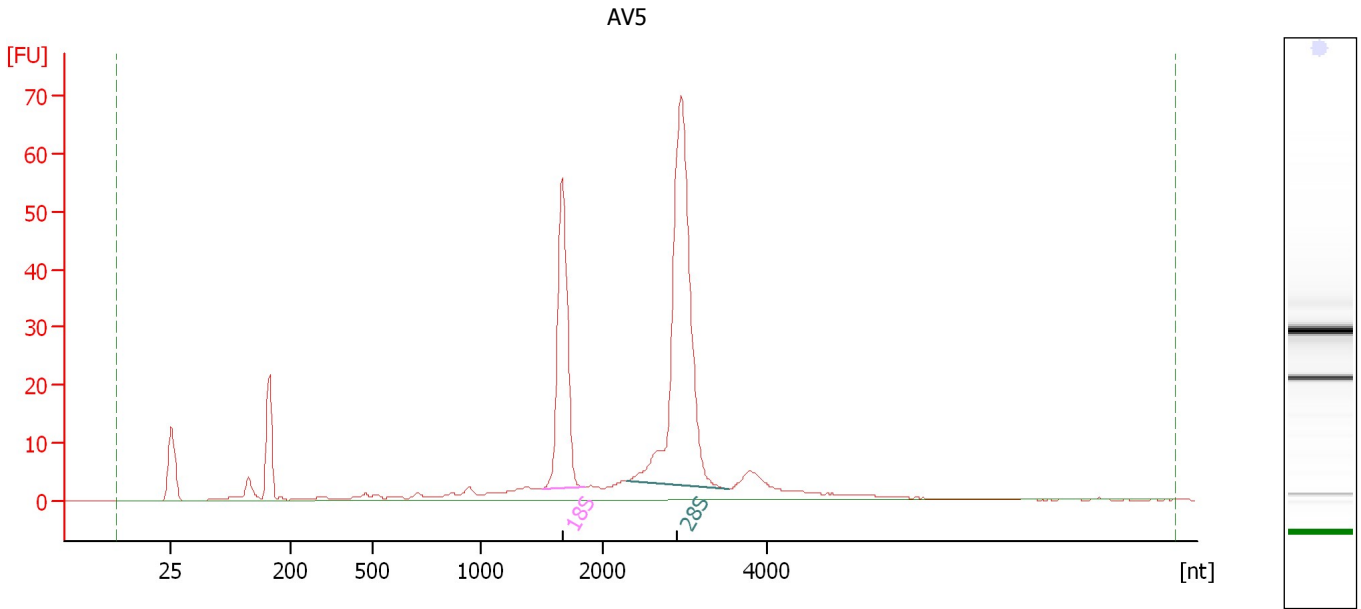
**Fragment table for sample 7 : BH1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,493	2,065	51.4	17.6
28S	2,337	3,580	90.1	30.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : AV5**

RNA Area: 351.0 RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 2,429 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.80

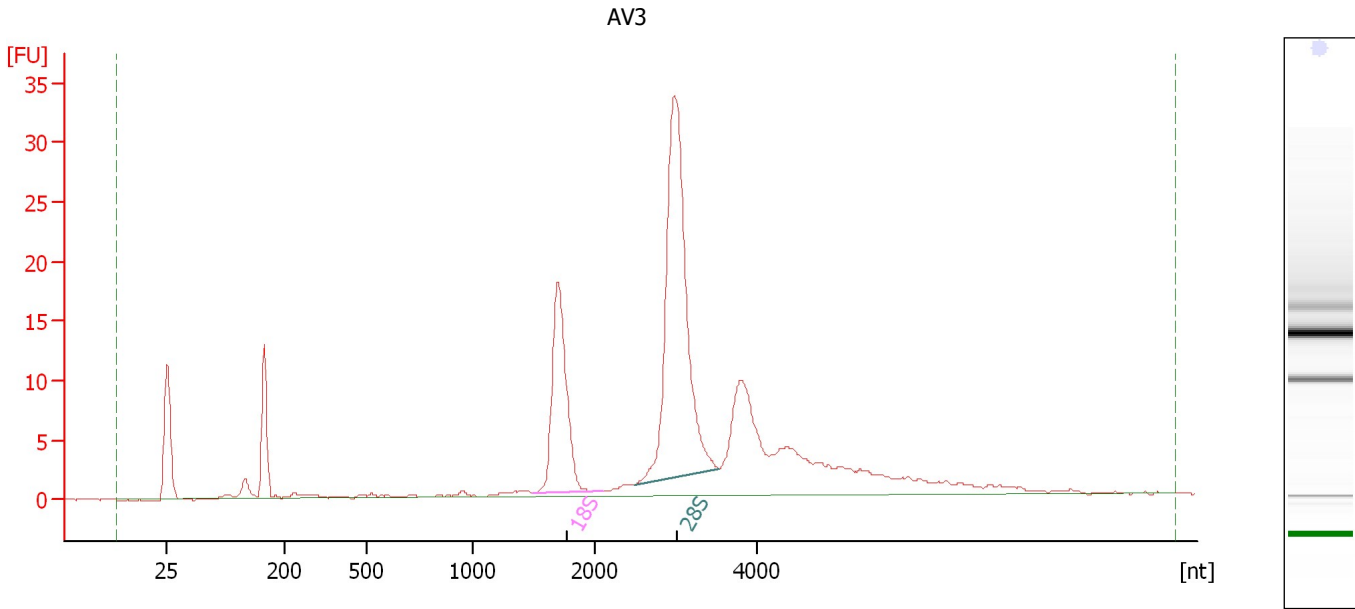
**Fragment table for sample 8 : AV5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,503	1,841	71.7	20.4
28S	2,297	3,524	142.1	40.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : AV3**

RNA Area: 222.3                      RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 1,538 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.2                      Result Flagging Label: RIN: 9.90

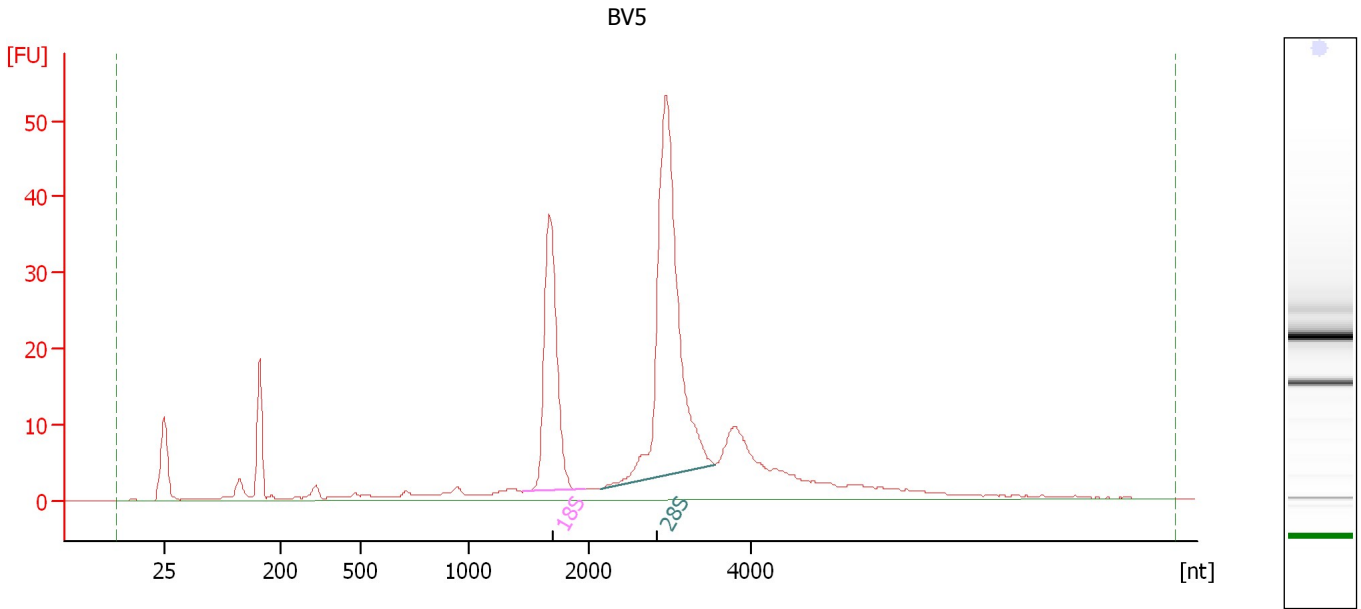
**Fragment table for sample 9 : AV3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,496	2,097	33.8	15.2
28S	2,480	3,521	75.7	34.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : BV5**

RNA Area:	355.4	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	2,459 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]:	1.9	Result Flagging Label:	RIN: 9.80

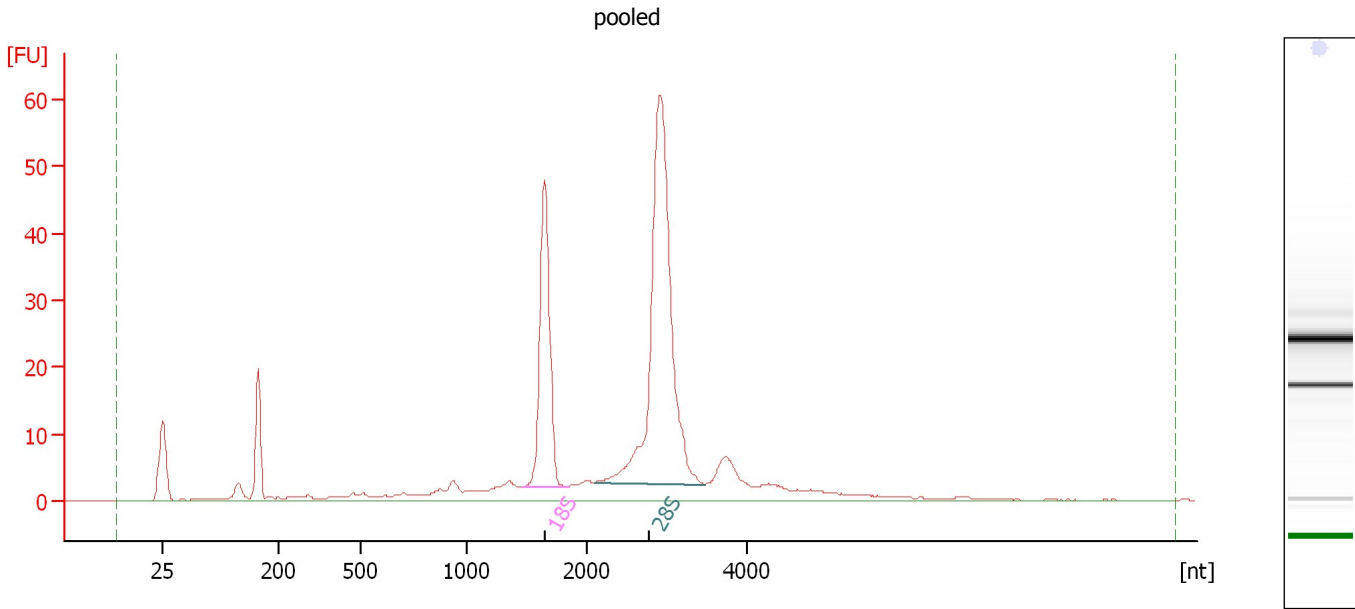
**Fragment table for sample 10 : BV5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,455	1,957	62.3	17.5
28S	2,148	3,555	121.3	34.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : pooled**

RNA Area:	353.7	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	2,447 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]:	2.2	Result Flagging Label:	RIN: 9.60

**Fragment table for sample 11 : pooled**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,462	1,841	62.8	17.8
28S	2,094	3,464	138.4	39.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
Modified: 8/26/2019 9:48:07 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26\_001.xad

Created: 8/26/2019 9:25:13 AM  
 Modified: 8/26/2019 9:48:07 AM

**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		8/26/2019 9:48:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_001.xad)		Instrument	Run		8/26/2019 9:25:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/26/2019 9:25:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/26/2019 9:25:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/26/2019 9:25:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/26/2019 9:25:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/26/2019 9:25:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/26/2019 9:25:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1