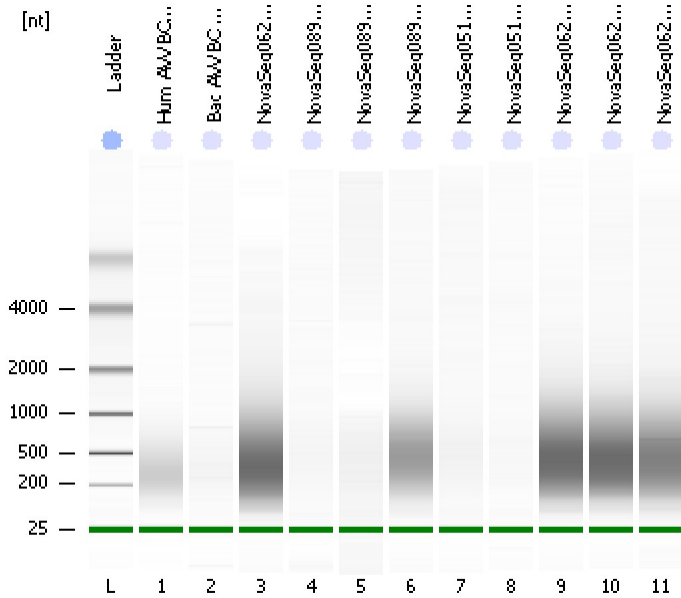


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

Electrophoresis File Run Summary



Instrument Information:

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

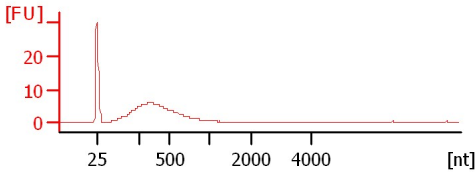
Assay Information:

Assay Origin Path: C:\Program Files\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.

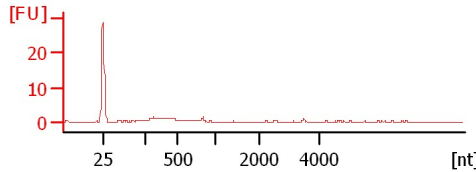
Chip Information:

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

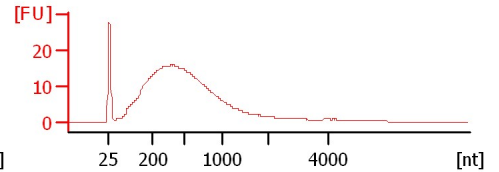
**Hum AVV BC DNA**  
Bisulfite Converted DNA  
RIN: 1.30



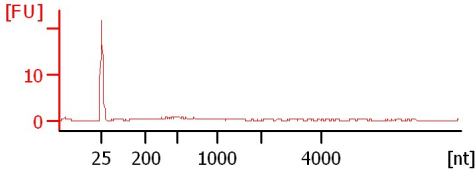
**Bac AVV BC DNA**  
Bisulfite Converted DNA  
RIN:1



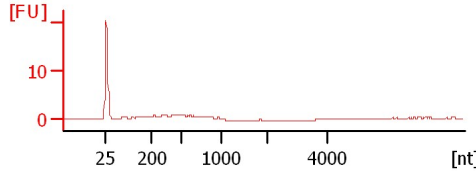
**NovaSeq062-34 Test BC RNase no cleanup**  
Bisulfite Converted DNA  
RIN: 2.20



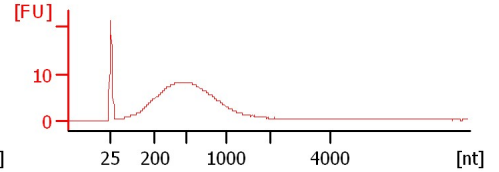
**NovaSeq089-1 BC DNA**  
Bisulfite Converted DNA  
RIN:1



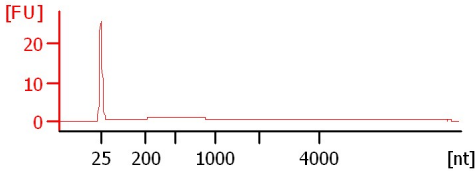
**NovaSeq089-3 BC DNA**  
Bisulfite Converted DNA  
RIN: 1.10



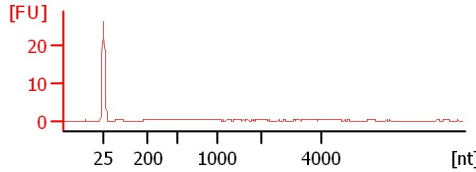
**NovaSeq089-5 BC DNA**  
Bisulfite Converted DNA  
RIN: 2.20



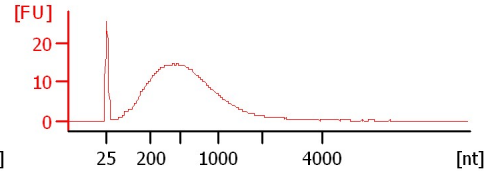
**NovaSeq051-53 BC DNA**  
Bisulfite Converted DNA  
RIN:1



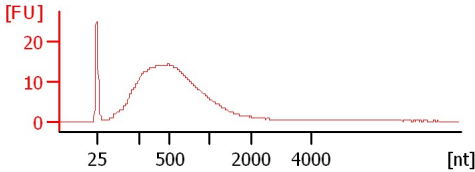
**NovaSeq051-82 BC DNA**  
Bisulfite Converted DNA  
RIN:1



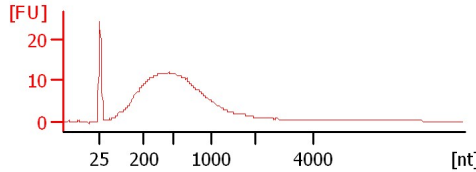
**NovaSeq062-10 BC DNA**  
Bisulfite Converted DNA  
RIN: 2.10



**NovaSeq062-46 BC DNA**  
Bisulfite Converted DNA  
RIN: 2.10



**NovaSeq062-89 BC DNA**  
Bisulfite Converted DNA  
RIN: 2.20



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Hum AVV BC DNA	Bisulfite Converted DNA	✓	RIN: 1.30	
Bac AVV BC DNA	Bisulfite Converted DNA	✓	RIN:1	
NovaSeq062-34 Test BC RNase no cleanup	Bisulfite Converted DNA	✓	RIN: 2.20	
NovaSeq089-1 BC DNA	Bisulfite Converted DNA	✓	RIN:1	
NovaSeq089-3 BC DNA	Bisulfite Converted DNA	✓	RIN: 1.10	
NovaSeq089-5 BC DNA	Bisulfite Converted DNA	✓	RIN: 2.20	
NovaSeq051-53 BC DNA	Bisulfite Converted DNA	✓	RIN:1	
NovaSeq051-82 BC DNA	Bisulfite Converted DNA	✓	RIN:1	
NovaSeq062-10 BC DNA	Bisulfite Converted DNA	✓	RIN: 2.10	
NovaSeq062-46 BC DNA	Bisulfite Converted DNA	✓	RIN: 2.10	
NovaSeq062-89 BC DNA	Bisulfite Converted DNA	✓	RIN: 2.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 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

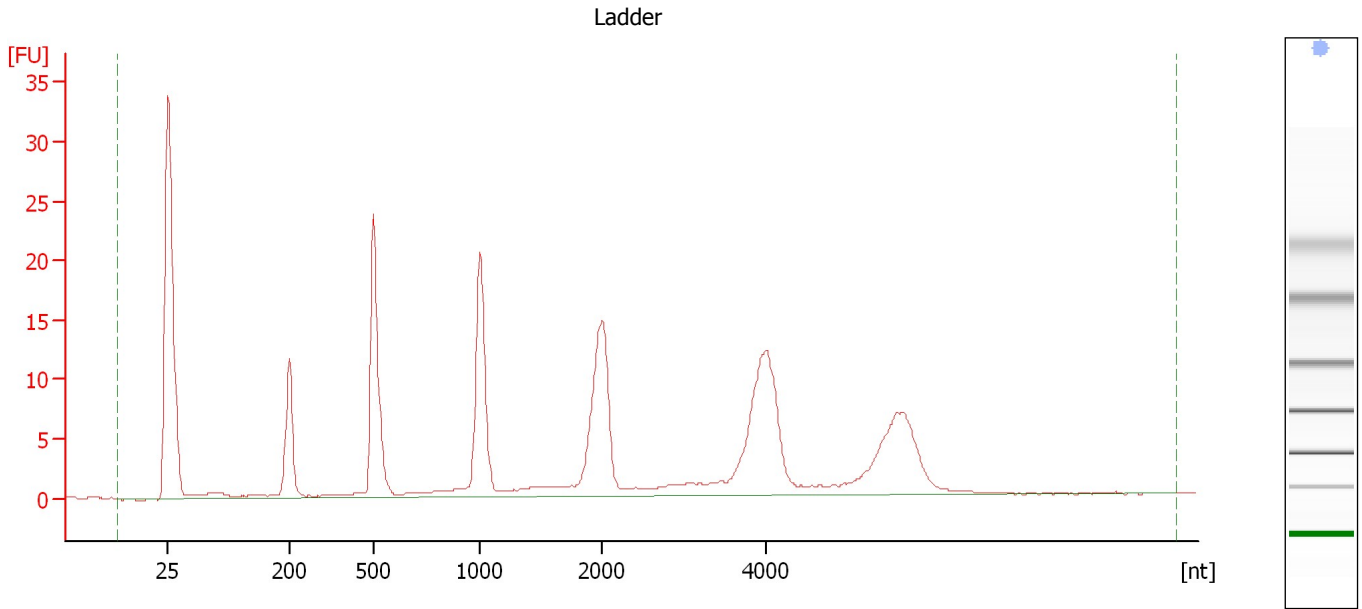
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary**



**Overall Results for Ladder**

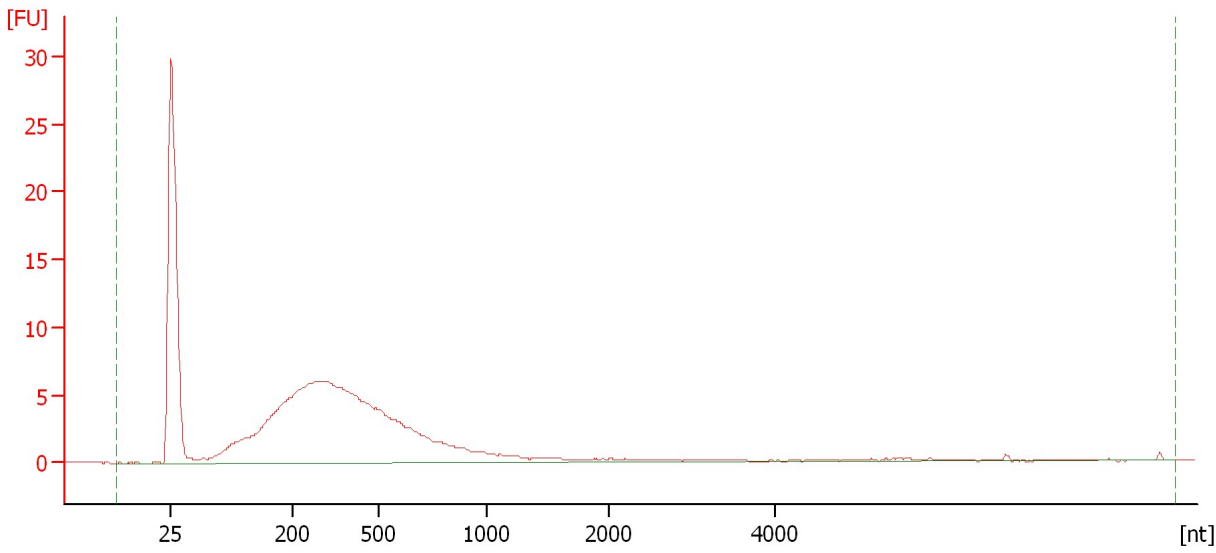
RNA Area:	203.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

Hum AVV BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 1 : Hum AVV BC DNA**

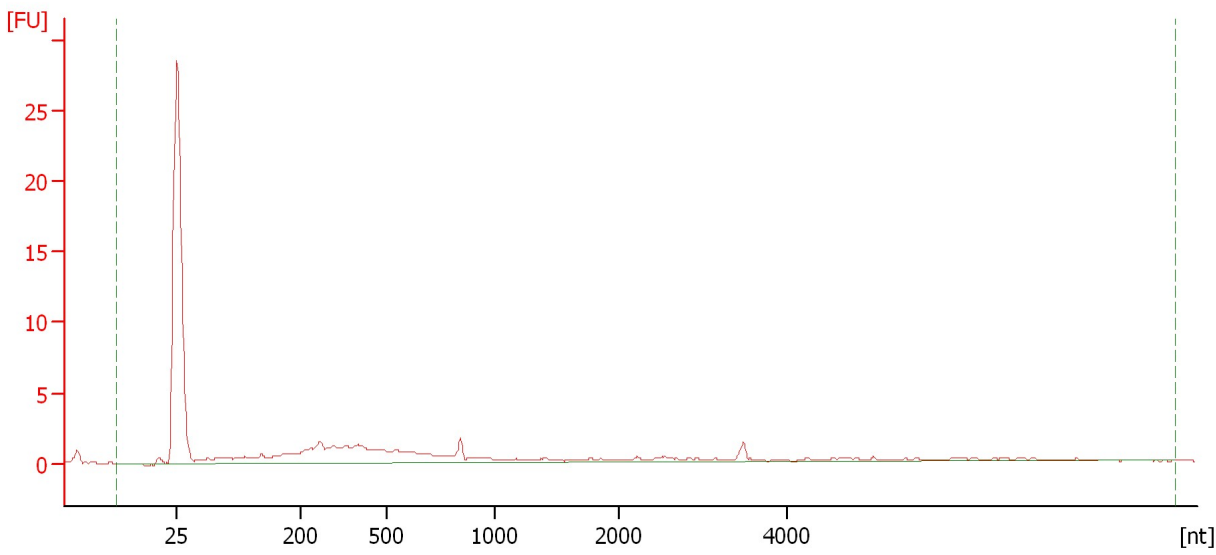
RNA Area:	148.7	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	732 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

Bac AVV BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 2 : Bac AVV BC DNA**

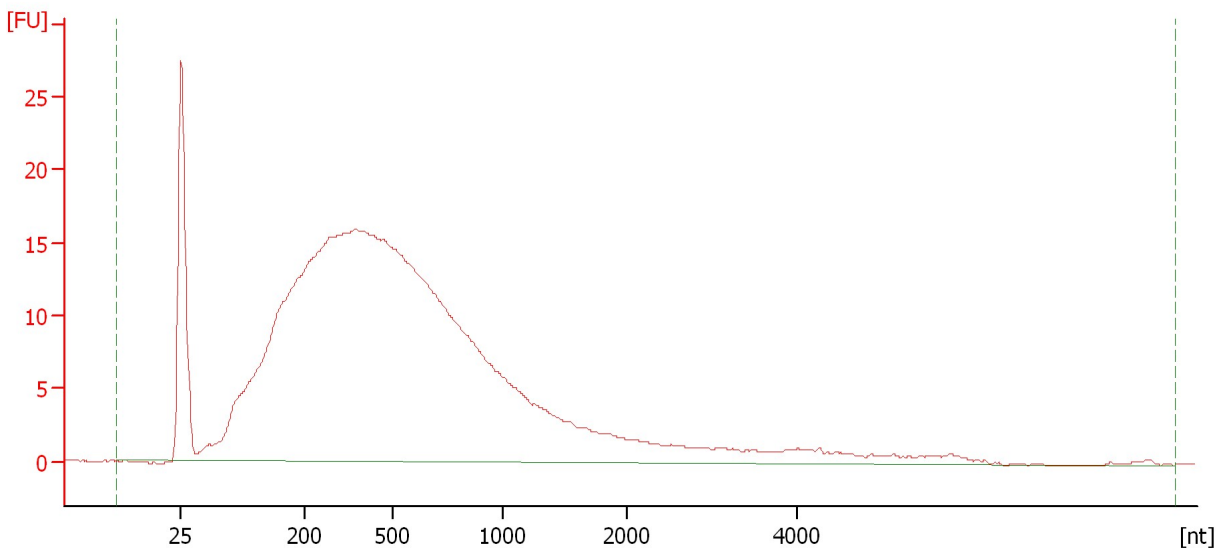
RNA Area:	39.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	196 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq062-34 Test BC RNase no cleanup [ Bisulfite Converted DNA ]



**Overall Results for sample 3 : NovaSeq062-34 Test BC RNase no cleanup**

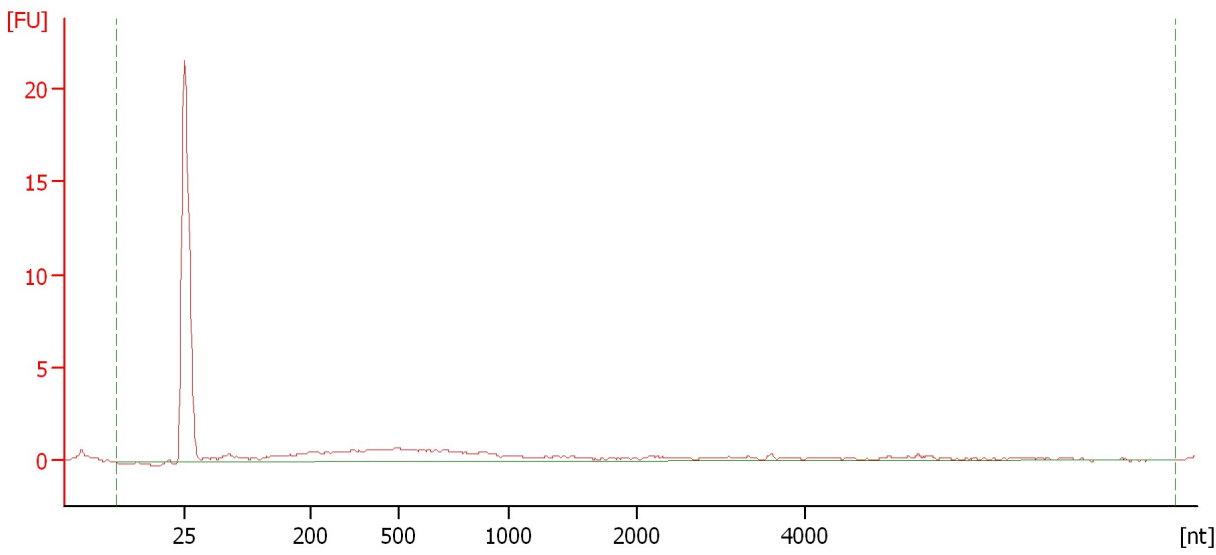
RNA Area:	549.3	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,705 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq089-1 BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 4 : NovaSeq089-1 BC DNA**

RNA Area:	28.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	142 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:1

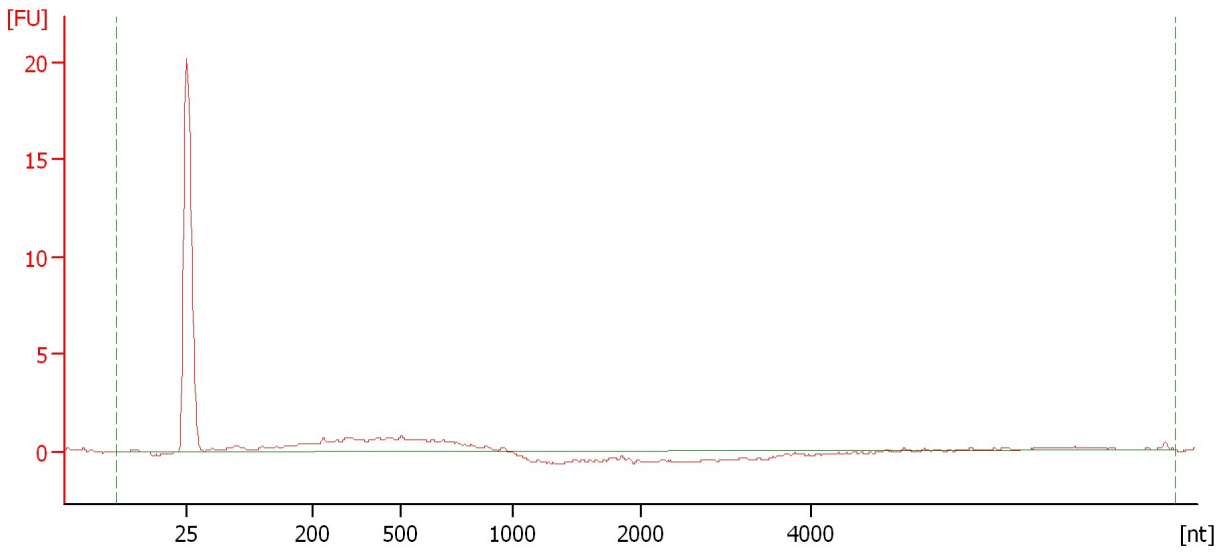


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq089-3 BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 5 : NovaSeq089-3 BC DNA**

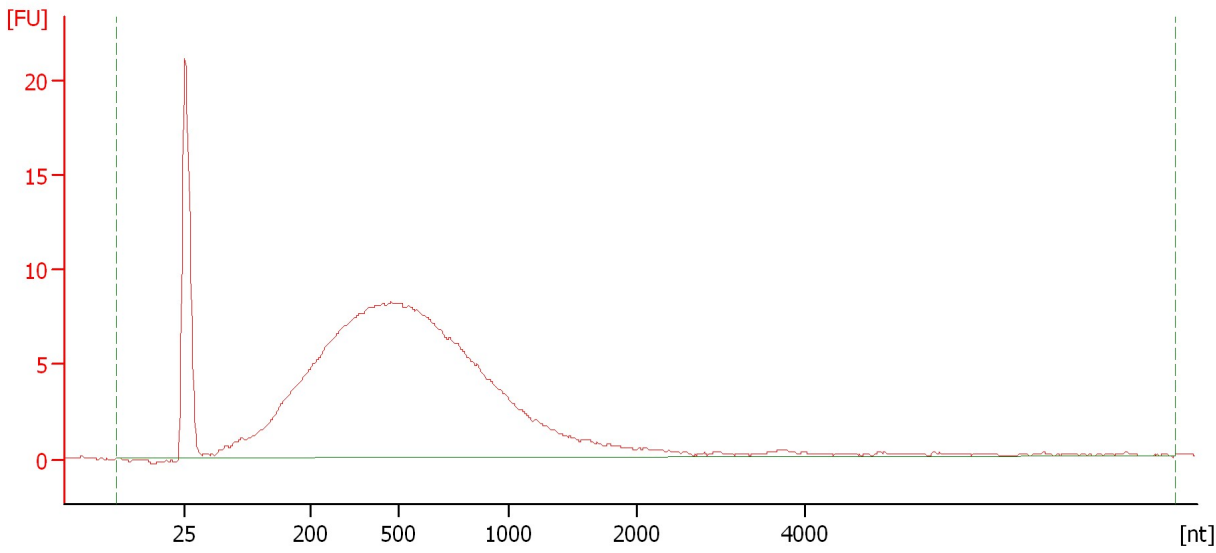
RNA Area:	16.5	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	81 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq089-5 BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 6 : NovaSeq089-5 BC DNA**

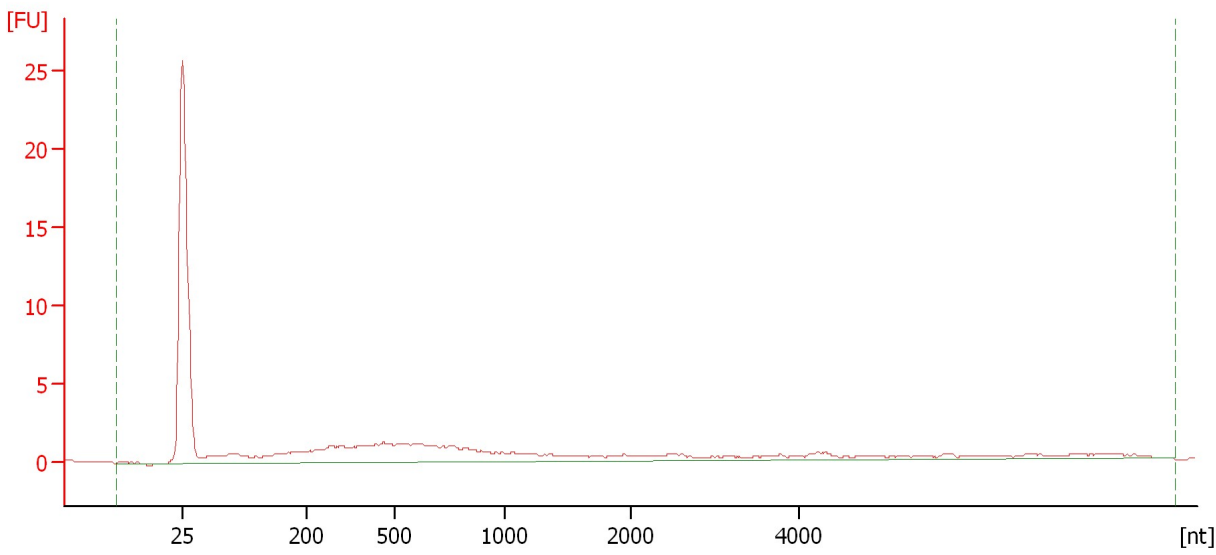
RNA Area:	244.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	1,204 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq051-53 BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 7 : NovaSeq051-53 BC DNA**

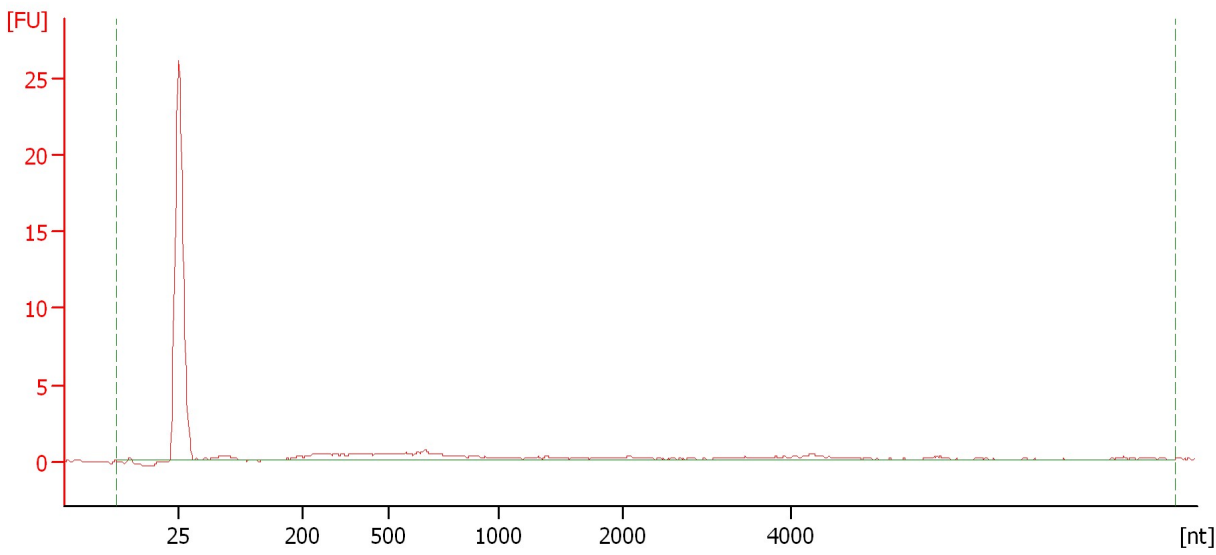
RNA Area:	53.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	265 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq051-82 BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 8 : NovaSeq051-82 BC DNA**

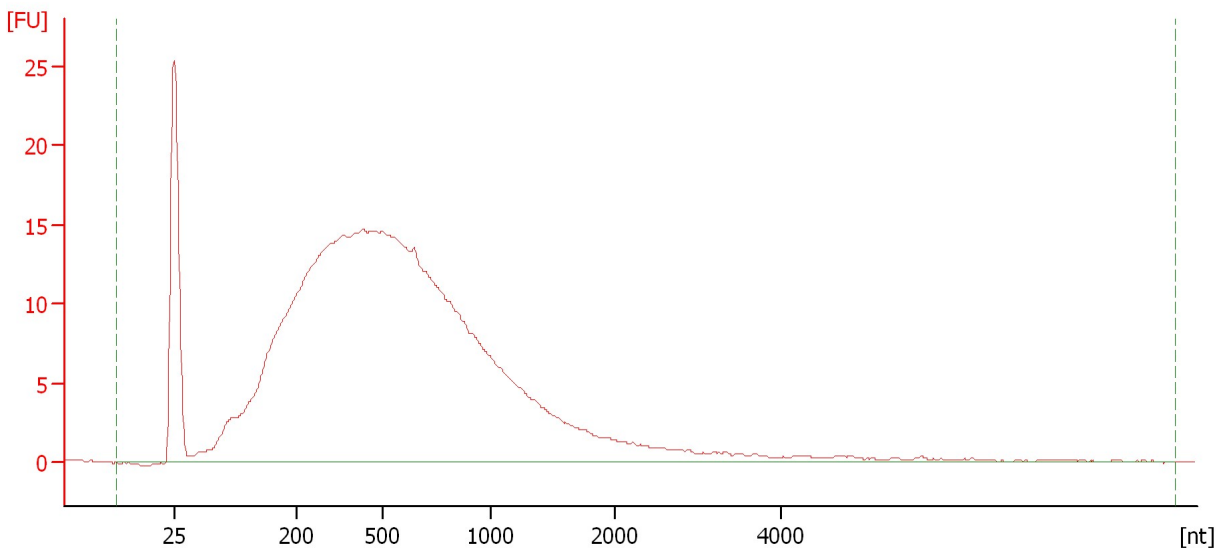
RNA Area:	17.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	88 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq062-10 BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 9 : NovaSeq062-10 BC DNA**

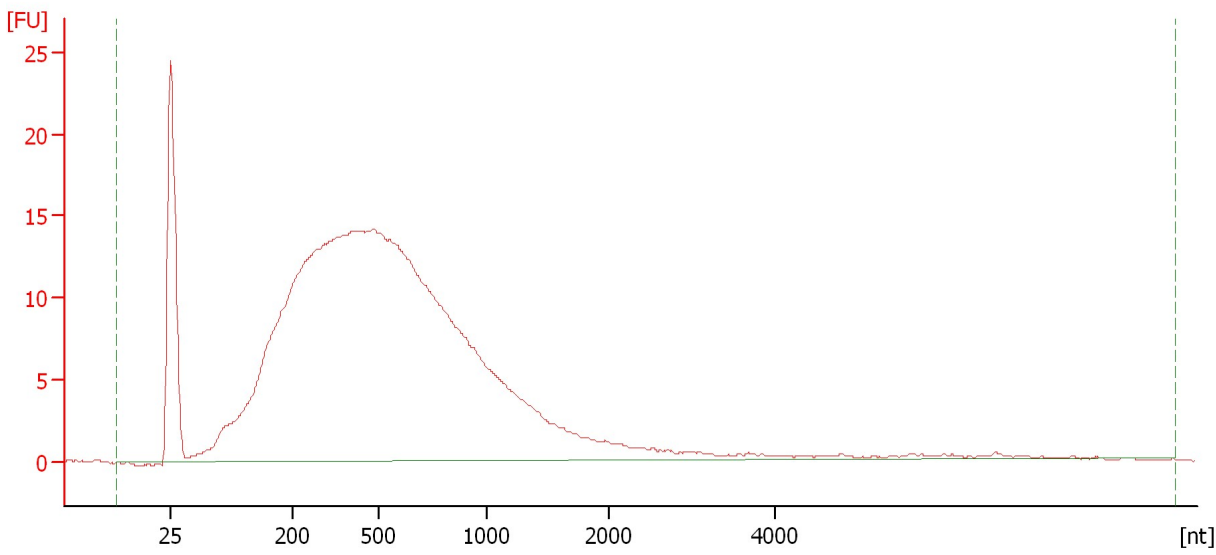
RNA Area:	494.1	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	2,433 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq062-46 BC DNA [ Bisulfite Converted DNA ]



**Overall Results for sample 10 : NovaSeq062-46 BC DNA**

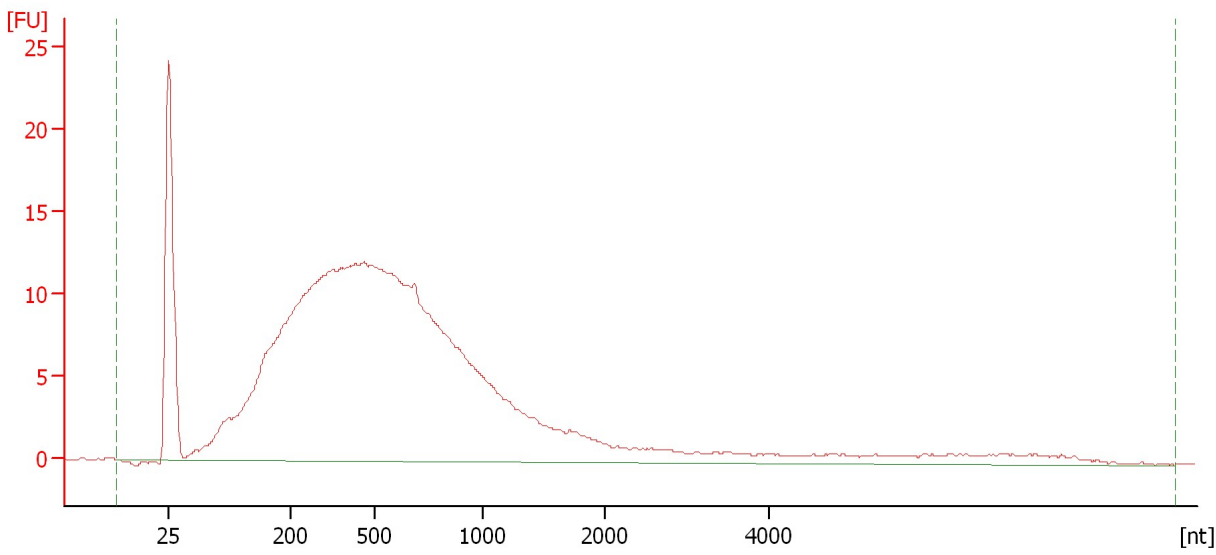
RNA Area:	462.7	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	2,278 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Electropherogram Summary Continued ...**

NovaSeq062-89 BC DNA [ Bisulfite Converted DNA ]



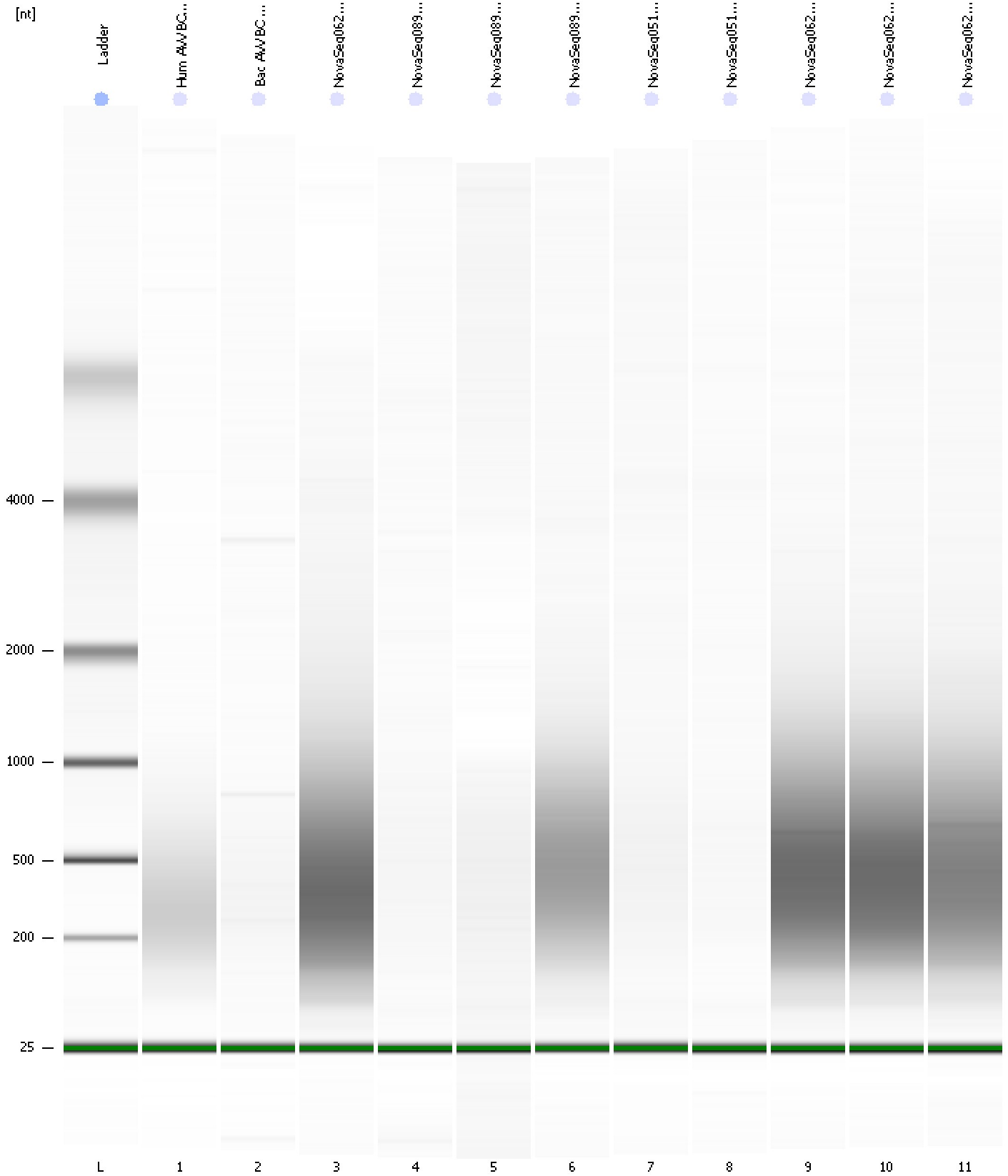
**Overall Results for sample 11 : NovaSeq062-89 BC DNA**

RNA Area:	412.7	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,032 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: 2.20

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Gel Image**



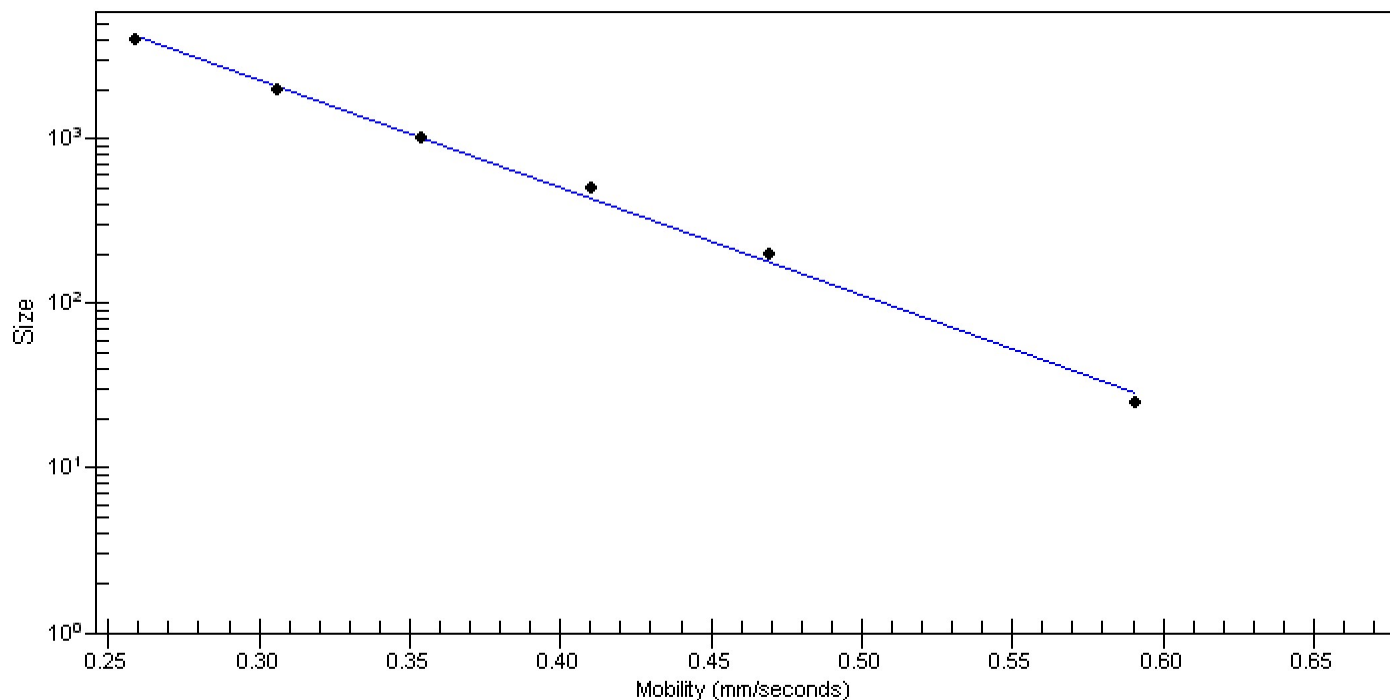


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
Modified: 9/6/2019 5:11:56 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06\_002.xad

Created: 9/6/2019 4:47:48 PM  
 Modified: 9/6/2019 5:11:56 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		9/6/2019 5:10:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad)		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1