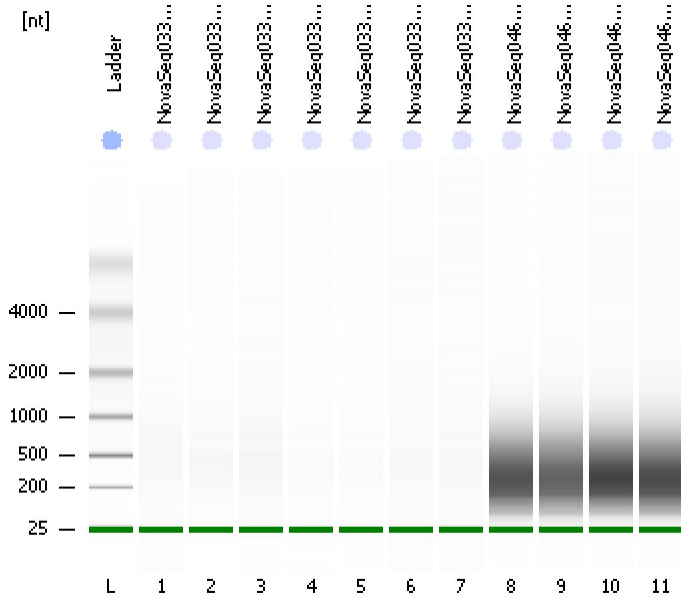


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 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)

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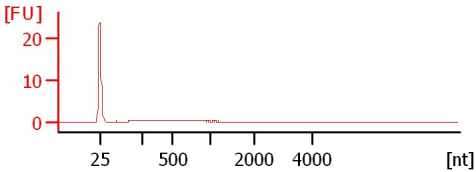
Chip Information:

Chip Lot #:

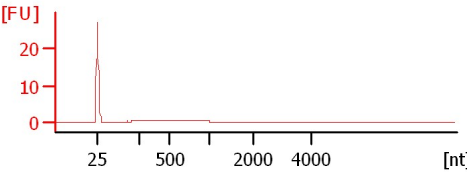
Reagent Kit Lot #:

Chip Comments:

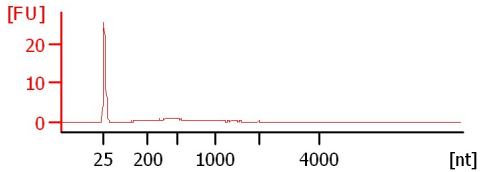
**NovaSeq033 - 6 BC DNA**  
RIN:1



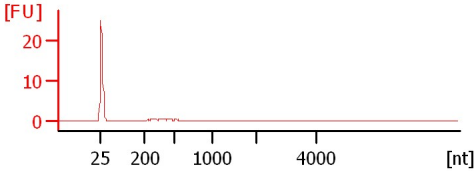
**NovaSeq033 - 7 BC DNA**  
RIN: 1.10



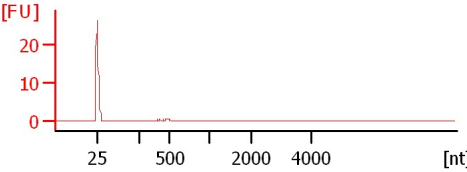
**NovaSeq033 - 8 BC DNA**  
RIN:1



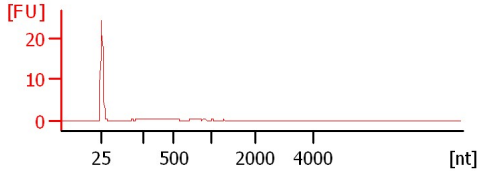
**NovaSeq033 - 9 BC DNA**  
RIN: 1.10



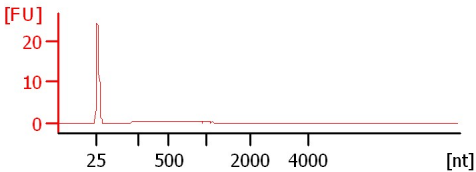
**NovaSeq033 - 10 BC DNA**  
RIN: 1.10



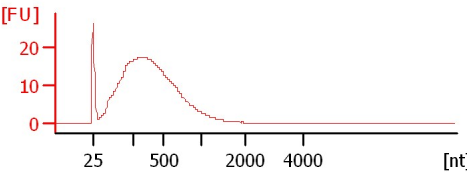
**NovaSeq033 - 11 BC DNA**  
RIN:1



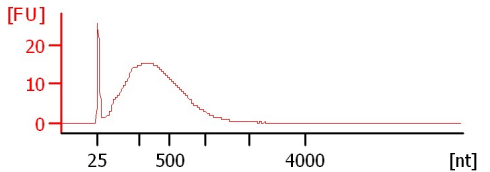
**NovaSeq033 - 12 BC DNA**  
RIN: 1.10



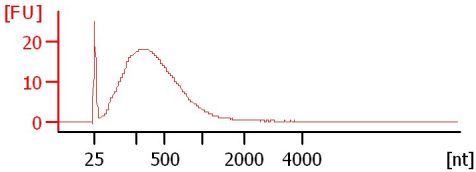
**NovaSeq046 - 7 BC DNA**  
RIN: 2.20



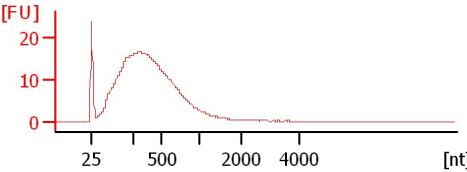
**NovaSeq046 - 8 BC DNA**  
RIN: 2.20



**NovaSeq046 - 9 BC DNA**  
RIN: 2.10



**NovaSeq046 - 10 BC DNA**  
RIN: 2.20



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
 Modified: 5/3/2019 1:48:03 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
NovaSeq033 - 6 BC DNA		✓	RIN:1	
NovaSeq033 - 7 BC DNA		✓	RIN: 1.10	
NovaSeq033 - 8 BC DNA		✓	RIN:1	
NovaSeq033 - 9 BC DNA		✓	RIN: 1.10	
NovaSeq033 - 10 BC DNA		✓	RIN: 1.10	
NovaSeq033 - 11 BC DNA		✓	RIN:1	
NovaSeq033 - 12 BC DNA		✓	RIN: 1.10	
NovaSeq046 - 7 BC DNA		✓	RIN: 2.20	
NovaSeq046 - 8 BC DNA		✓	RIN: 2.20	
NovaSeq046 - 9 BC DNA		✓	RIN: 2.10	
NovaSeq046 - 10 BC 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\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 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

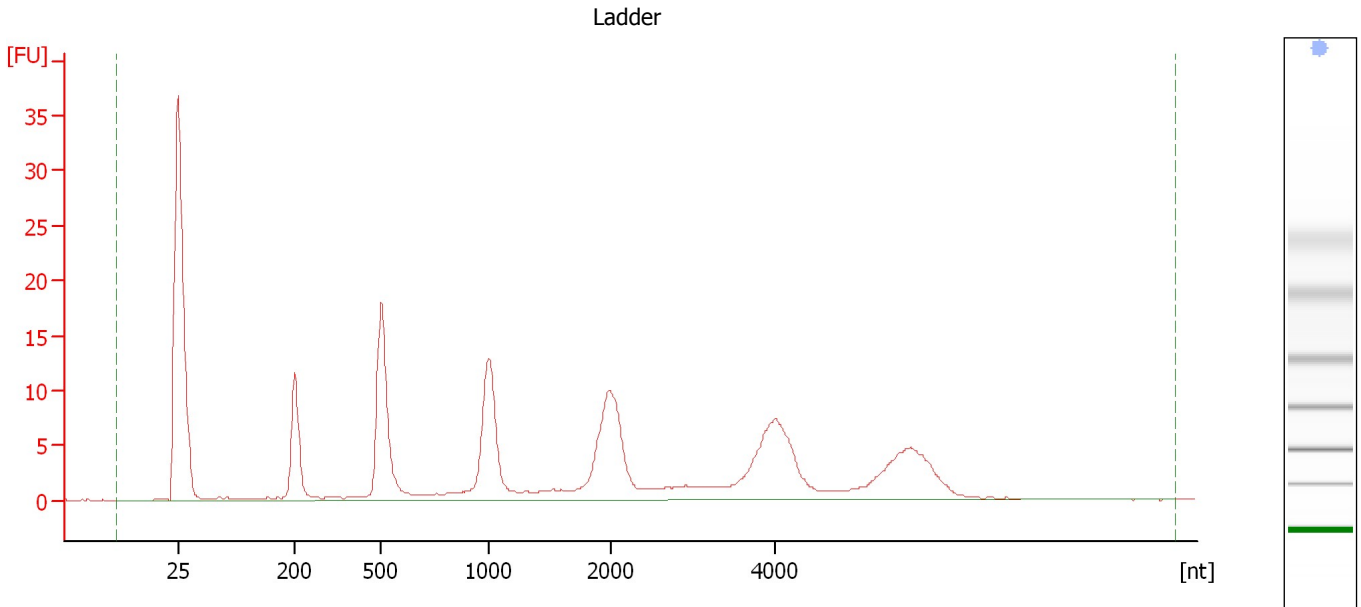
### Ladder

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\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary**



**Overall Results for Ladder**

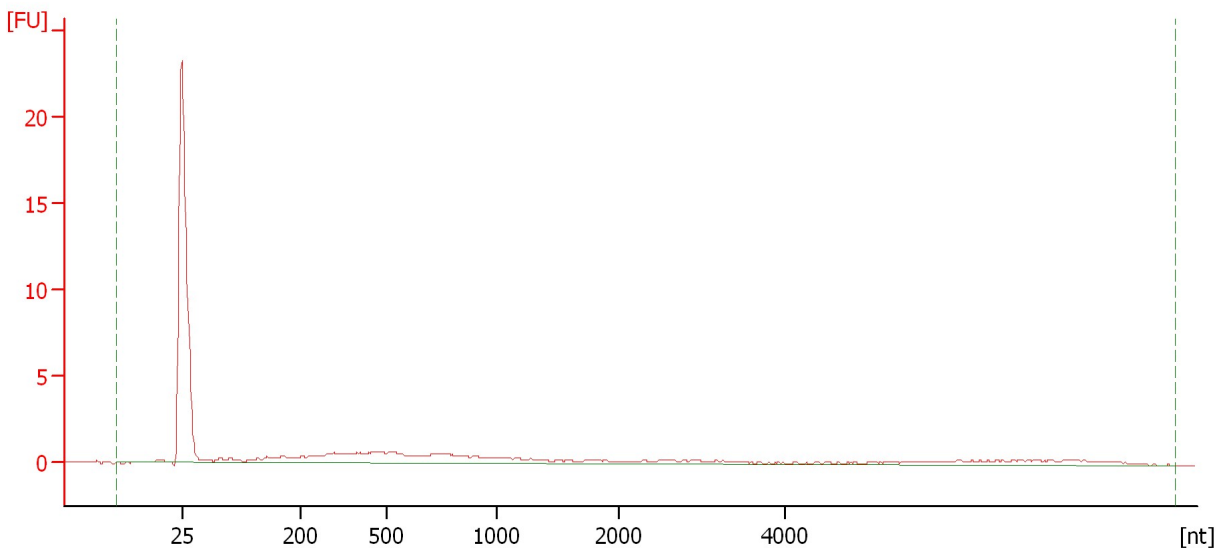
RNA Area:	189.3	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 6 BC DNA



**Overall Results for sample 1 : NovaSeq033 - 6 BC DNA**

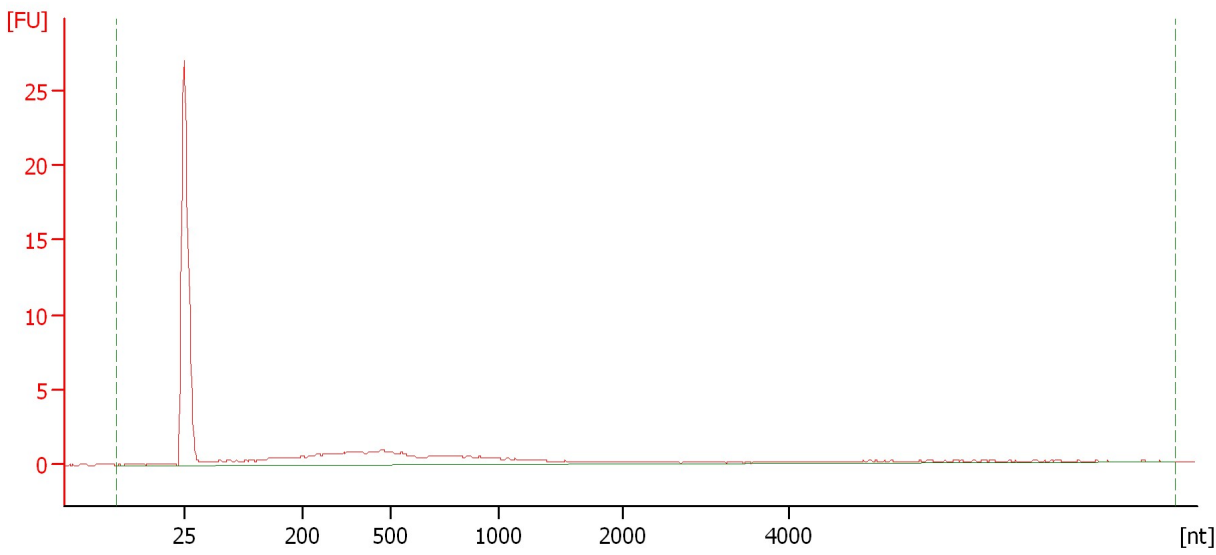
RNA Area:	32.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	172 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 7 BC DNA



**Overall Results for sample 2 : NovaSeq033 - 7 BC DNA**

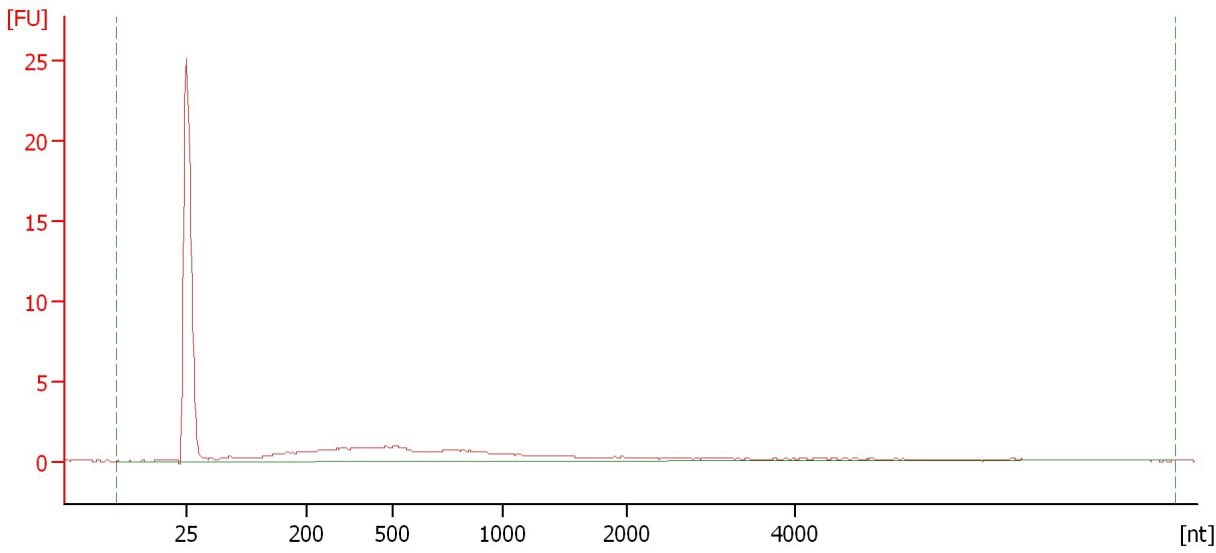
RNA Area:	31.7	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	167 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 8 BC DNA



**Overall Results for sample 3 : NovaSeq033 - 8 BC DNA**

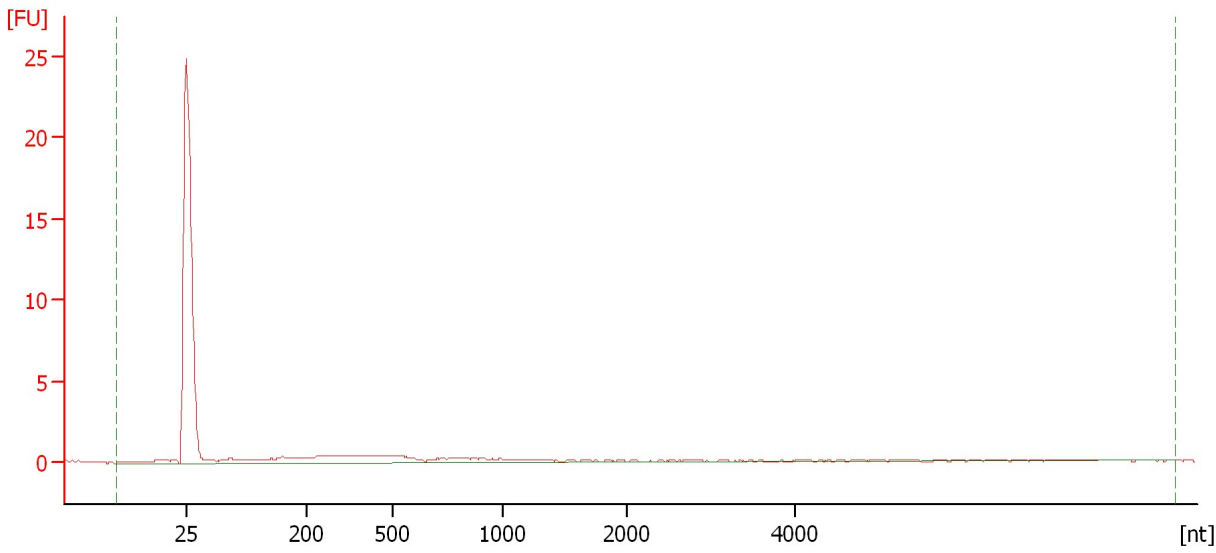
RNA Area:	34.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	182 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 9 BC DNA



**Overall Results for sample 4 : NovaSeq033 - 9 BC DNA**

RNA Area:	17.8	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	94 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

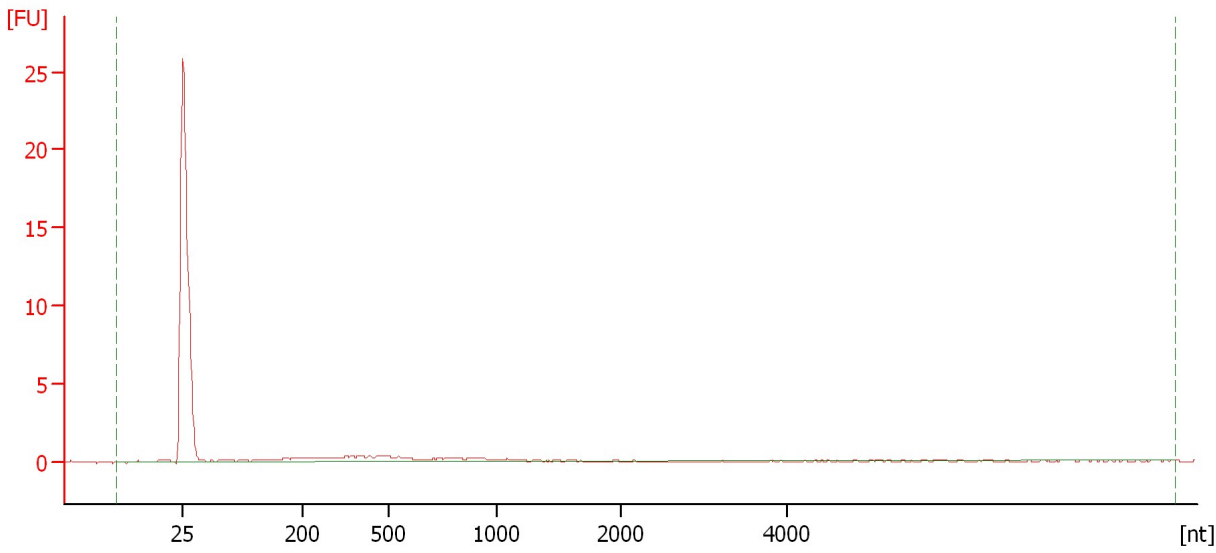


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 10 BC DNA



**Overall Results for sample 5 : NovaSeq033 - 10 BC DNA**

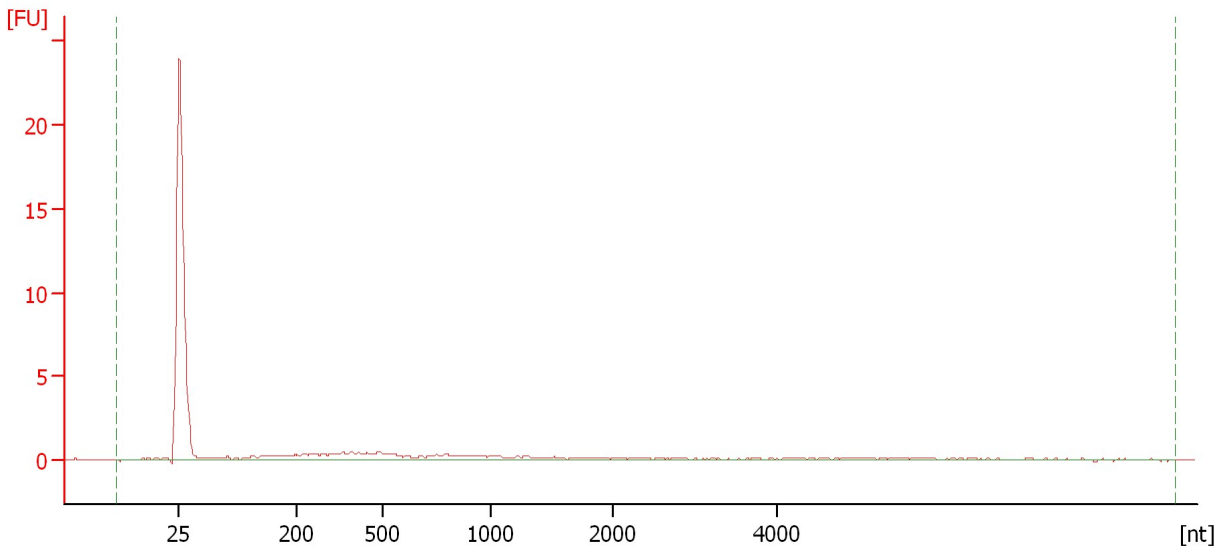
RNA Area:	11.5	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	61 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 11 BC DNA



**Overall Results for sample 6 : NovaSeq033 - 11 BC DNA**

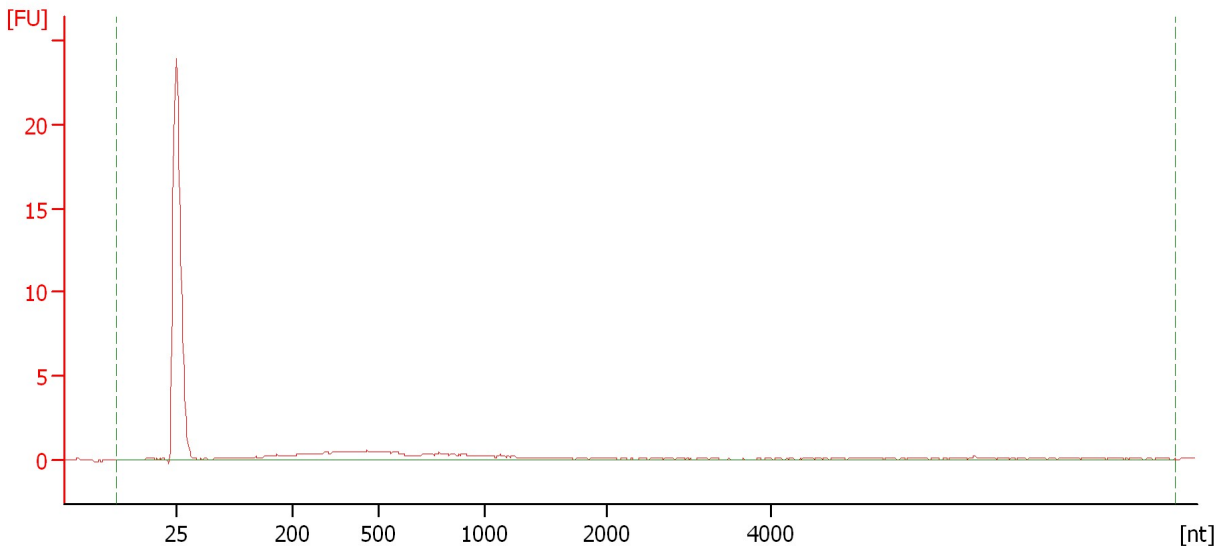
RNA Area:	14.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	79 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 12 BC DNA



**Overall Results for sample 7 : NovaSeq033 - 12 BC DNA**

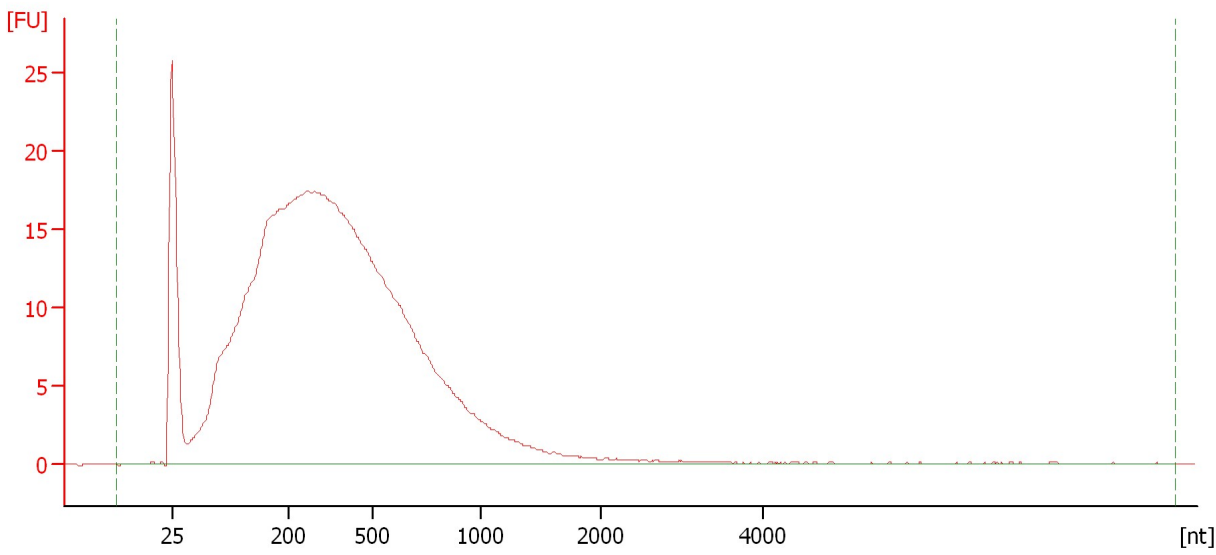
RNA Area:	17.1	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	90 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq046 - 7 BC DNA



**Overall Results for sample 8 : NovaSeq046 - 7 BC DNA**

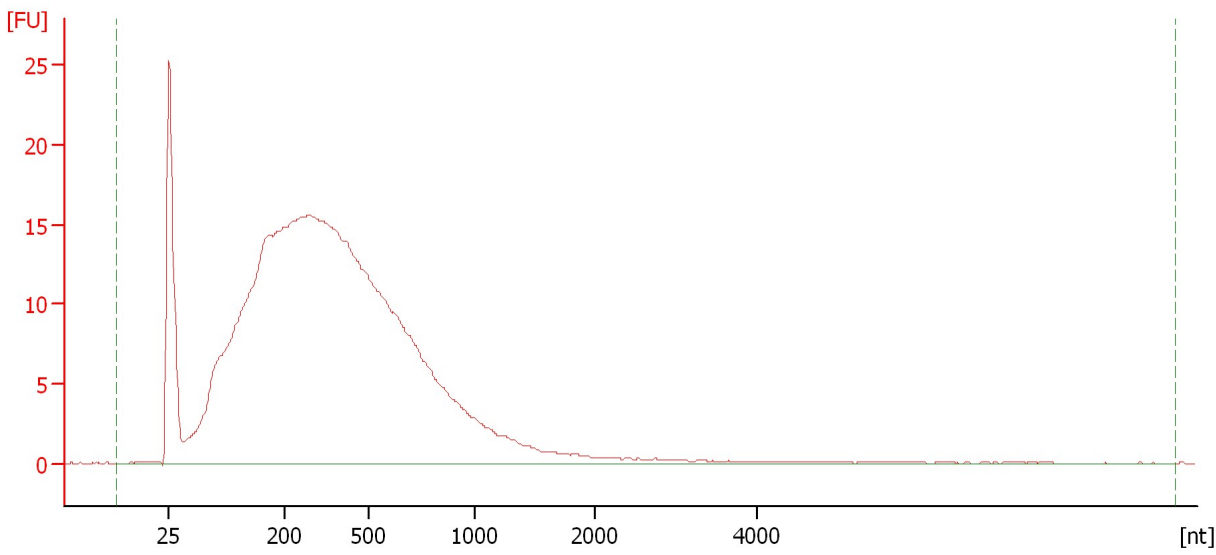
RNA Area:	513.6	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,713 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq046 - 8 BC DNA



**Overall Results for sample 9 : NovaSeq046 - 8 BC DNA**

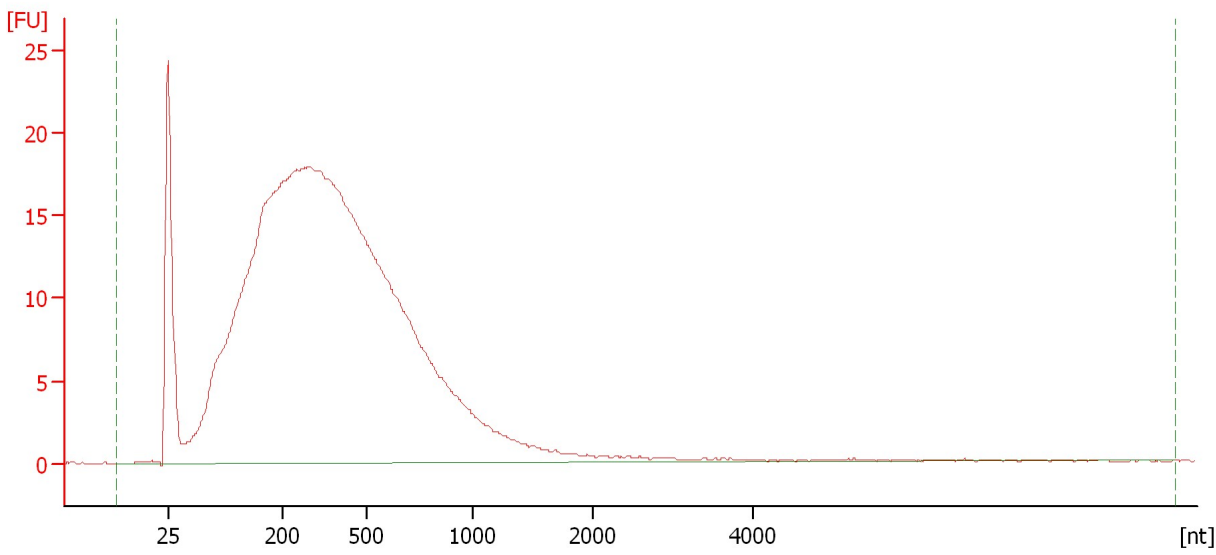
RNA Area:	477.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,521 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**

NovaSeq046 - 9 BC DNA



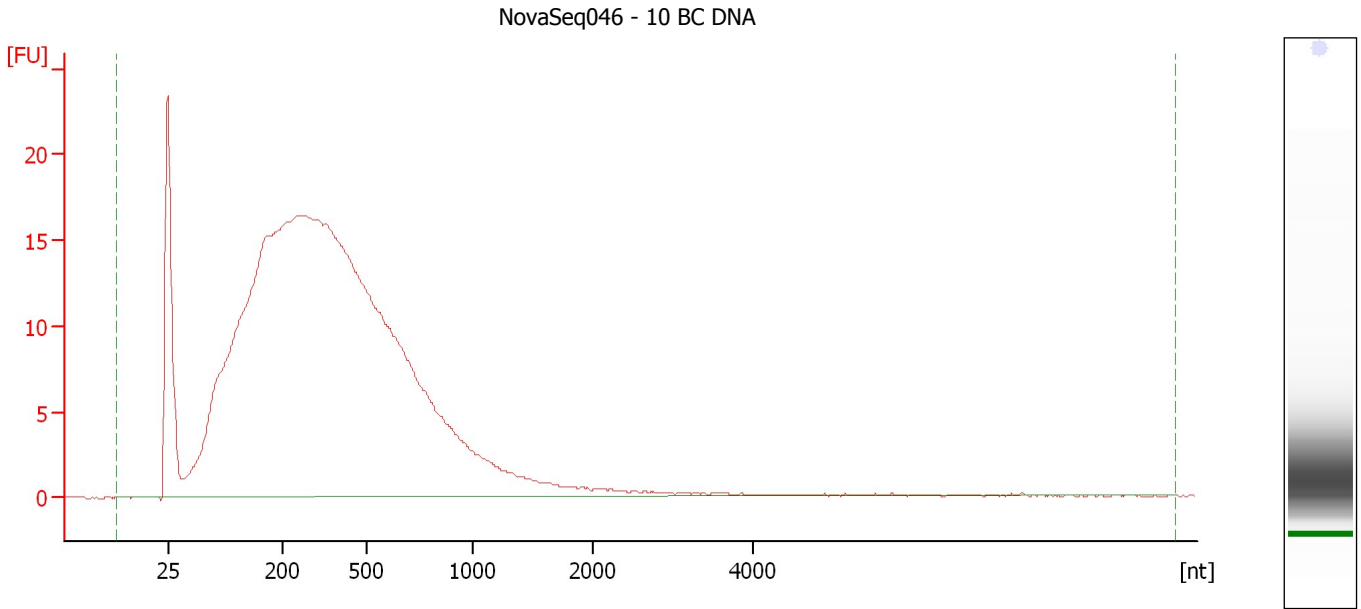
**Overall Results for sample 10 : NovaSeq046 - 9 BC DNA**

RNA Area:	521.8	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	2,756 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\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Electropherogram Summary Continued ...**



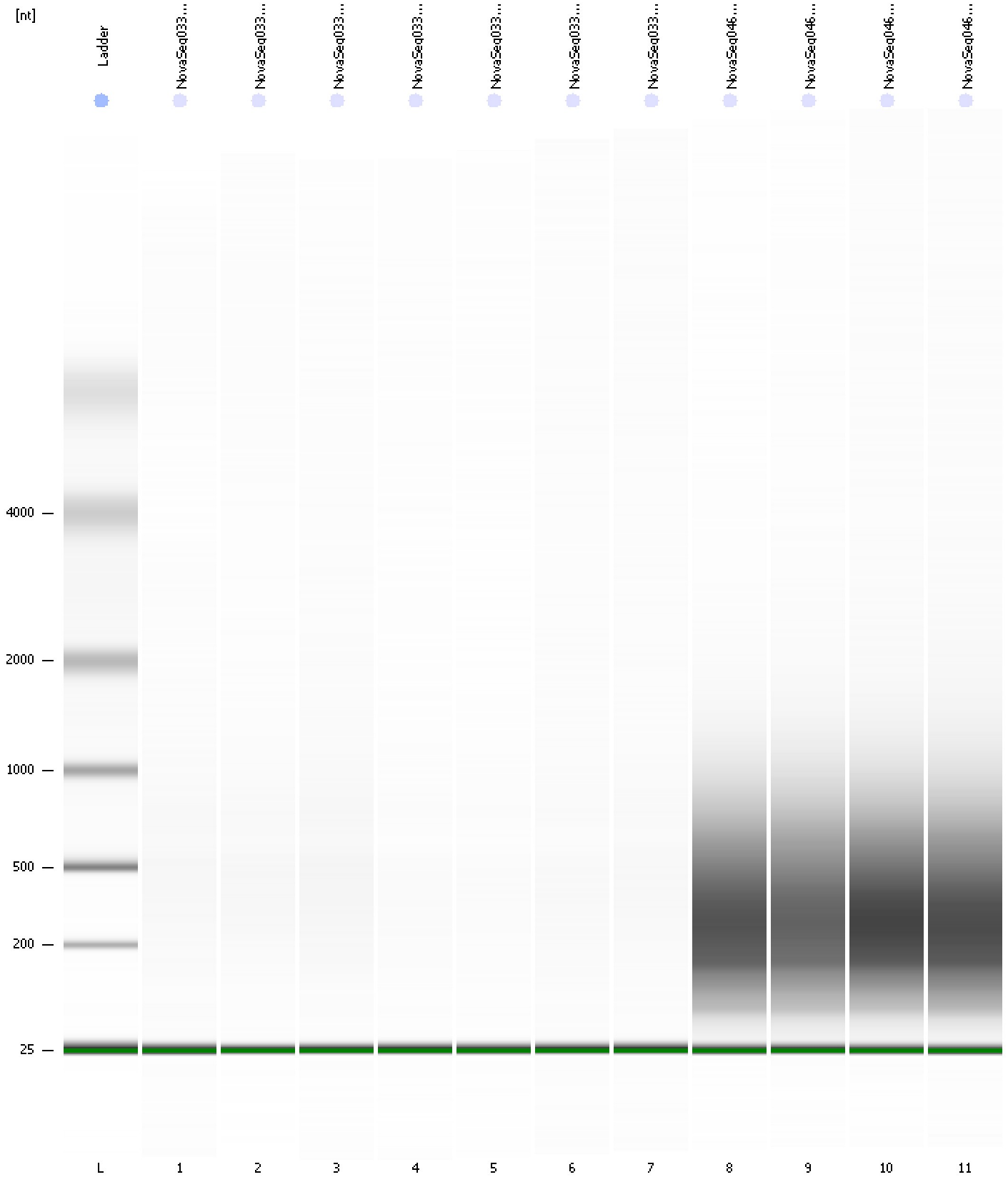
**Overall Results for sample 11 : NovaSeq046 - 10 BC DNA**

RNA Area:	493.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,607 pg/ $\mu$ l	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\2019-05-03\2019-05-03\_002.xad

Created: 5/3/2019 1:25:16 PM  
Modified: 5/3/2019 1:48:03 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico Created: 5/3/2019 1:25:16 PM  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-03\2019-05-03\_002.xad Modified: 5/3/2019 1:48:03 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		5/3/2019 1:48:03 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\2019-05-03\2019-05-03_002.xad)		Instrument	Run		5/3/2019 1:25:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/3/2019 1:25:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/3/2019 1:25:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/3/2019 1:25:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/3/2019 1:25:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/3/2019 1:25:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/3/2019 1:25:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1