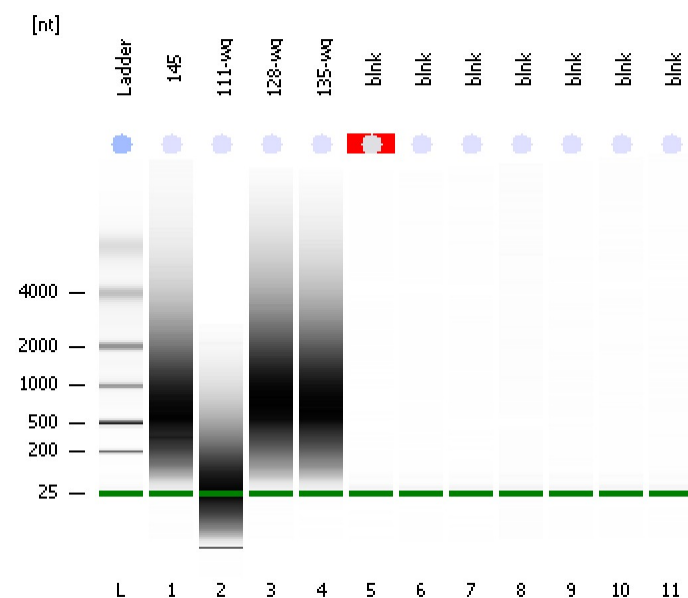


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE72902486  
Serial#: DE72902486

Firmware: C.01.069  
Type: G2939A

#### 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)

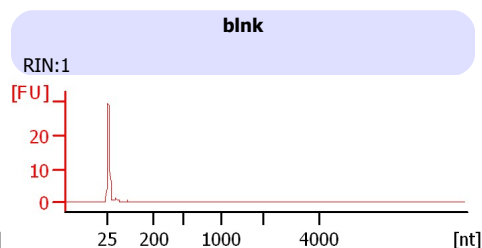
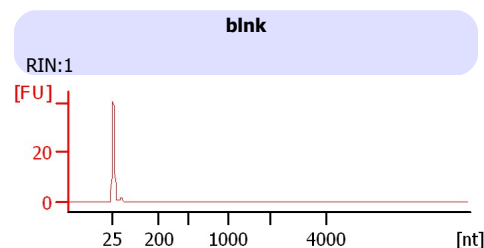
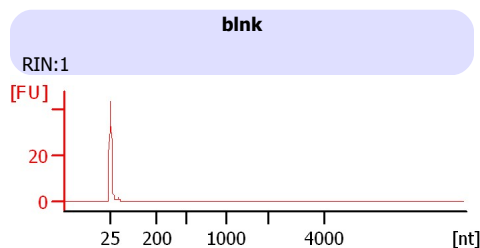
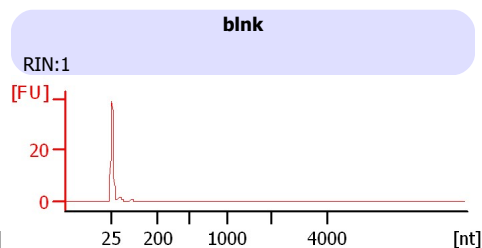
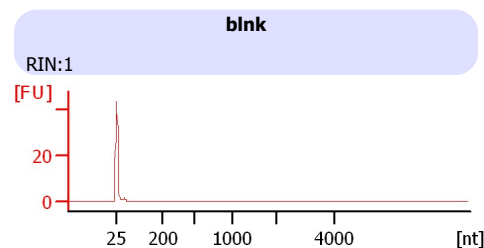
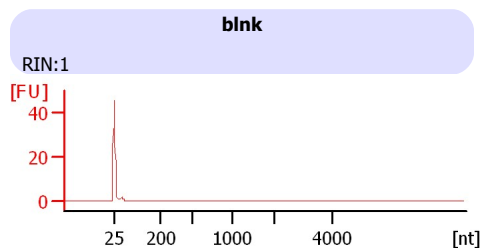
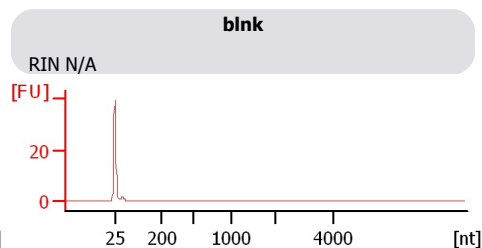
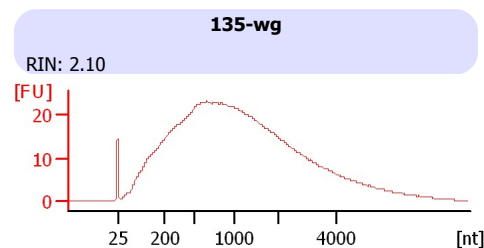
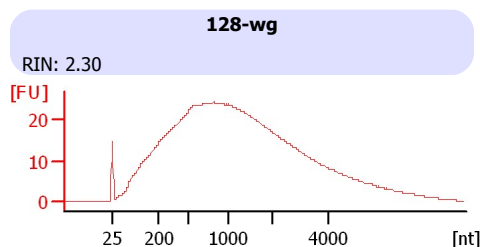
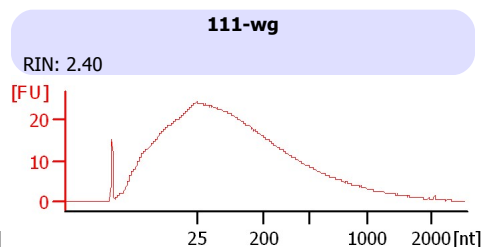
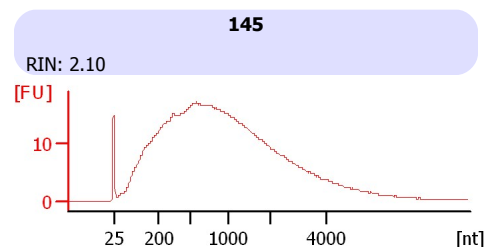
© Copyright 2003 - 2009 Agilent Technologies, Inc.

#### Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

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

| Sample Name | Sample Comment | Stat Result Label | Result Color |
|-------------|----------------|-------------------|--------------|
|             |                | us                |              |
| 145         |                | ✓ RIN: 2.10       |              |
| 111-wg      |                | ✓ RIN: 2.40       |              |
| 128-wg      |                | ✓ RIN: 2.30       |              |
| 135-wg      |                | ✓ RIN: 2.10       |              |
| blnk        |                | ✓ RIN N/A         |              |
| blnk        |                | ✓ RIN:1           |              |
| blnk        |                | ✓ RIN:1           |              |
| blnk        |                | ✓ RIN:1           |              |
| blnk        |                | ✓ RIN:1           |              |
| blnk        |                | ✓ RIN:1           |              |
| blnk        |                | ✓ RIN:1           |              |

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 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/ $\mu$ 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

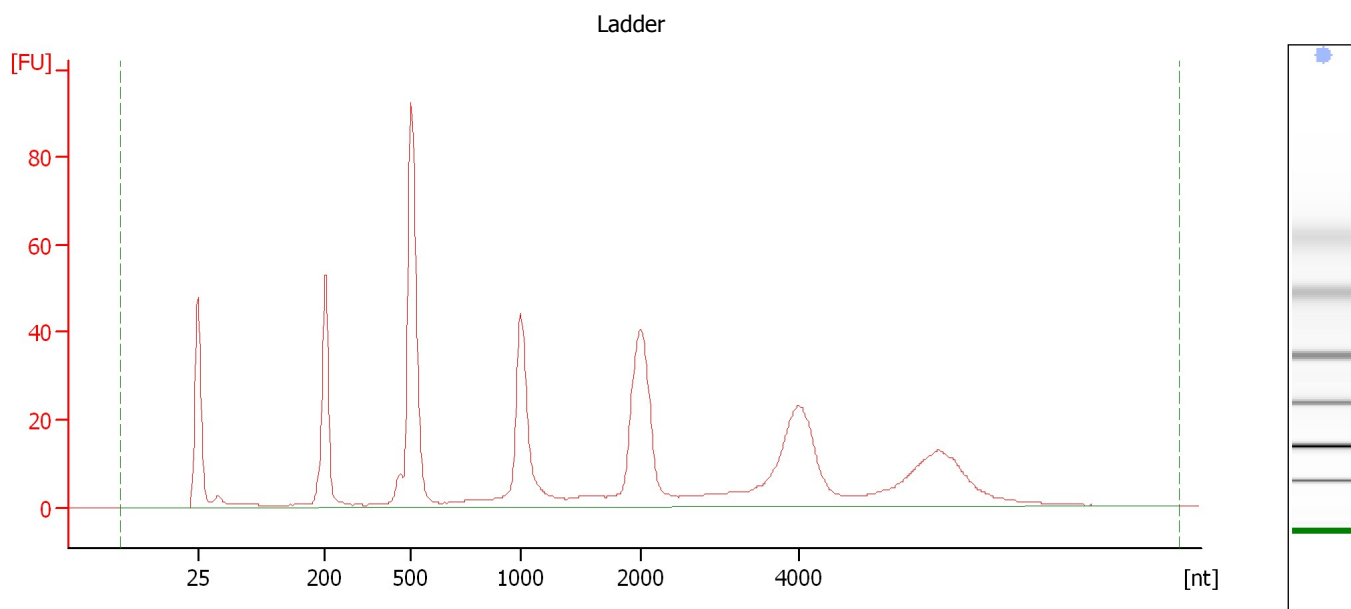
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

### Electropherogram Summary



### Overall Results for Ladder

RNA Area: 623.6

Result Flagging Color:



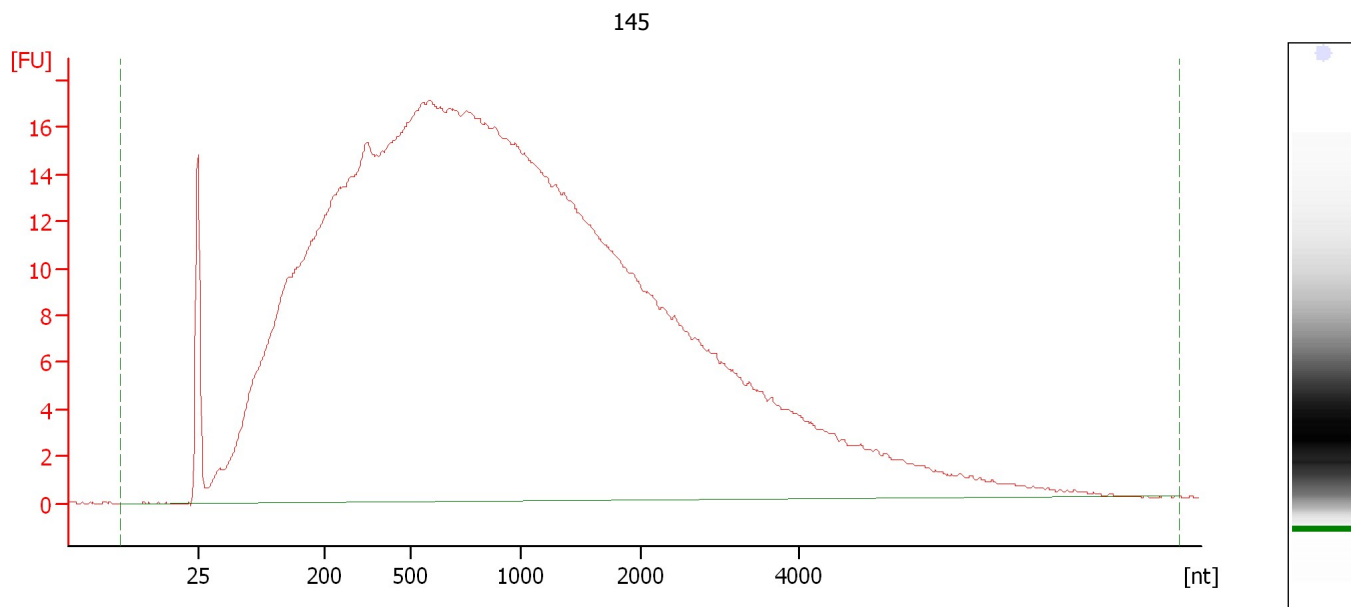
RNA Concentration: 1,000 pg/μl

Result Flagging Label:

All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

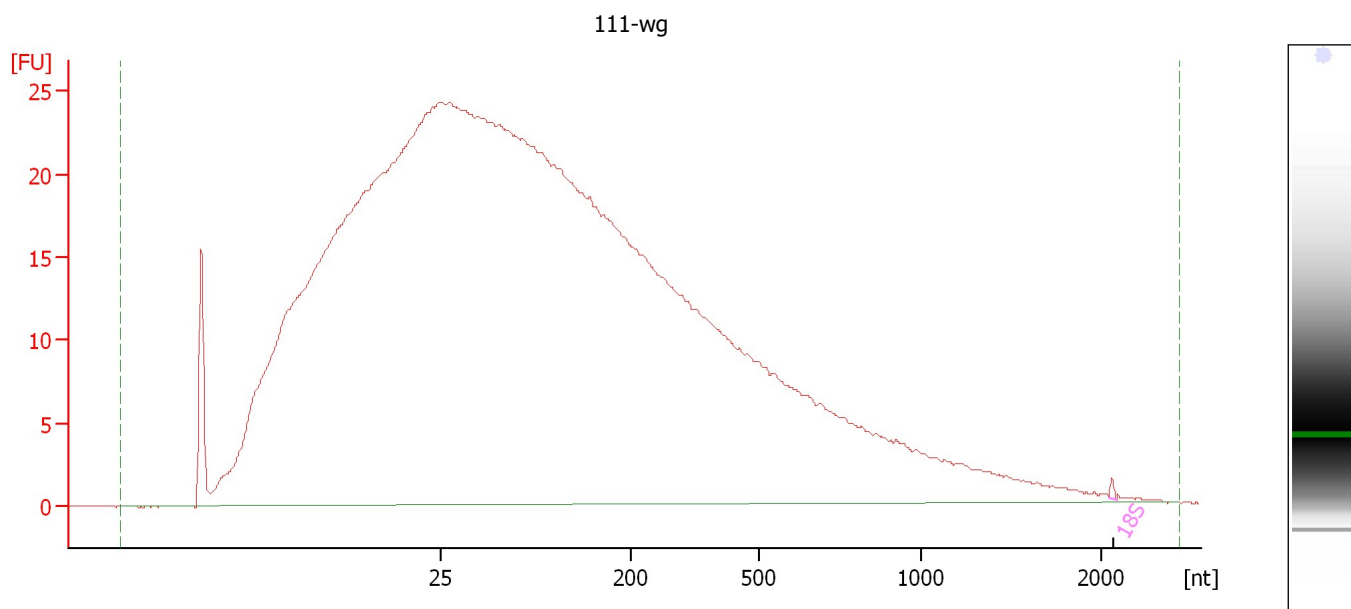
Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 1 : 145**

|                         |             |                             |  |
|-------------------------|-------------|-----------------------------|--|
| RNA Area:               | 849.5       | RNA Integrity Number (RIN): | 2.1 (B.02.07)  |
| RNA Concentration:      | 1,362 pg/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0         | Result Flagging Label:      | RIN: 2.10  |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 2 : 111-wg**

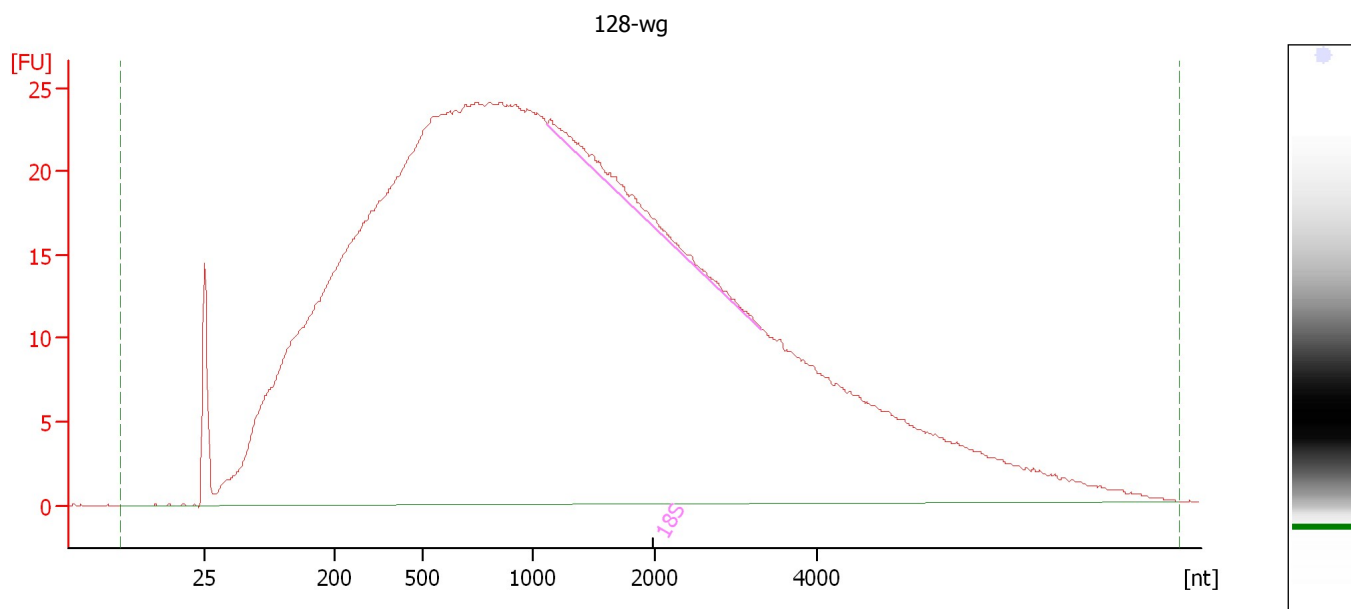
|                         |             |                             |  |
|-------------------------|-------------|-----------------------------|--|
| RNA Area:               | 709.8       | RNA Integrity Number (RIN): | 2.4 (B.02.07)  |
| RNA Concentration:      | 1,138 pg/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0         | Result Flagging Label:      | RIN: 2.40  |

**Fragment table for sample 2 : 111-wg**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 2,068           | 2,140         | 0.4  | 0.1             |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 3 : 128-wg**

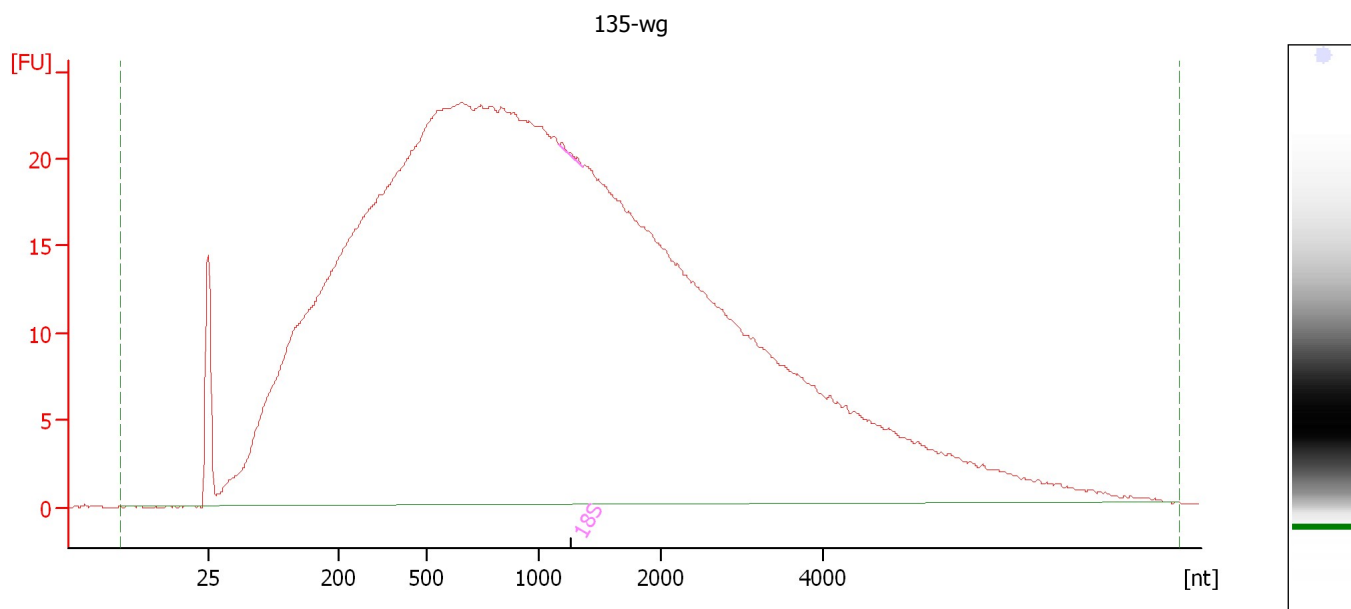
|                         |             |                             |  |
|-------------------------|-------------|-----------------------------|--|
| RNA Area:               | 1,283.3     | RNA Integrity Number (RIN): | 2.3 (B.02.07)  |
| RNA Concentration:      | 2,058 pg/μl | Result Flagging Color:      | <div style="background-color: #ccccff; border: 1px solid black; width: 30px; height: 15px;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0         | Result Flagging Label:      | RIN: 2.30  |

**Fragment table for sample 3 : 128-wg**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,118           | 3,318         | 8.6  | 0.7             |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 4 : 135-wg**

|                         |             |                             |  |
|-------------------------|-------------|-----------------------------|--|
| RNA Area:               | 1,184.0     | RNA Integrity Number (RIN): | 2.1 (B.02.07)  |
| RNA Concentration:      | 1,899 pg/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 20px; height: 10px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0         | Result Flagging Label:      | RIN: 2.10  |

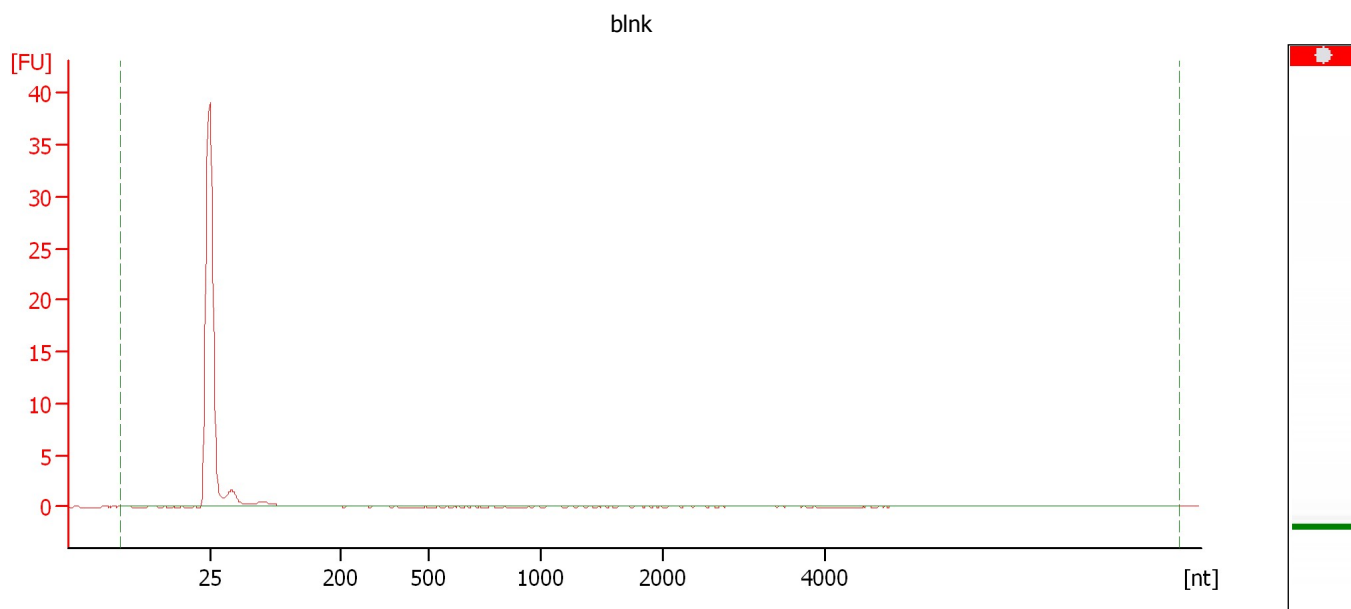
**Fragment table for sample 4 : 135-wg**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,170           | 1,362         | 0.4  | 0.0             |



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

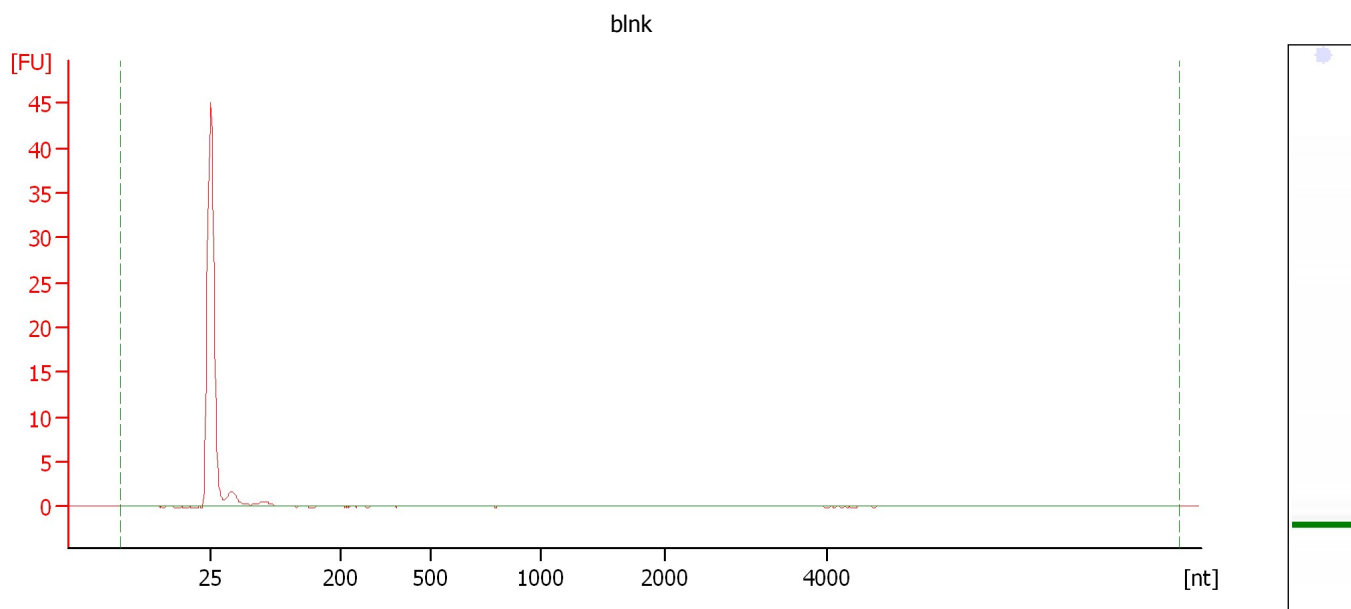
Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : blnk**

|                         |          |                             |  |
|-------------------------|----------|-----------------------------|--|
| RNA Area:               | 6.1      | RNA Integrity Number (RIN): | N/A (B.02.07)  |
| RNA Concentration:      | 10 pg/μl | Result Flagging Color:      | <div style="background-color: #cccccc; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0      | Result Flagging Label:      | RIN N/A  |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

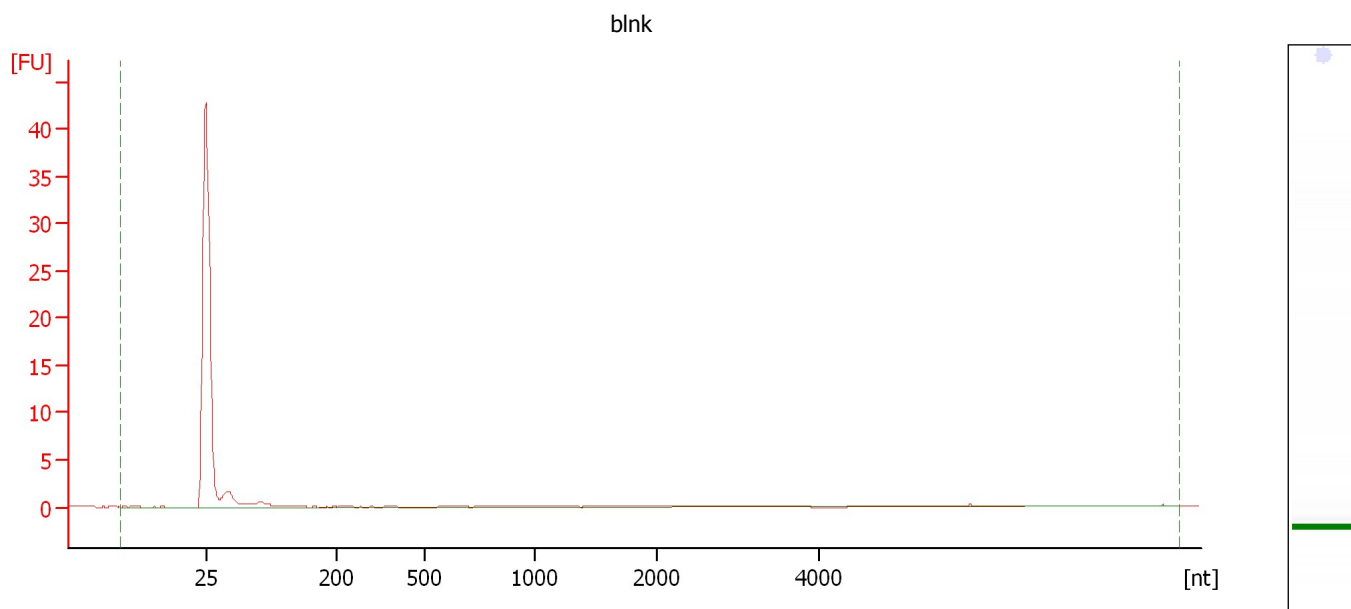
Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 6 : blnk**

|                         |          |                             |  |
|-------------------------|----------|-----------------------------|--|
| RNA Area:               | 7.3      | RNA Integrity Number (RIN): | 1 (B.02.07)  |
| RNA Concentration:      | 12 pg/μl | Result Flagging Color:      | <div style="background-color: #d1c4e9; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0      | Result Flagging Label:      | RIN:1  |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

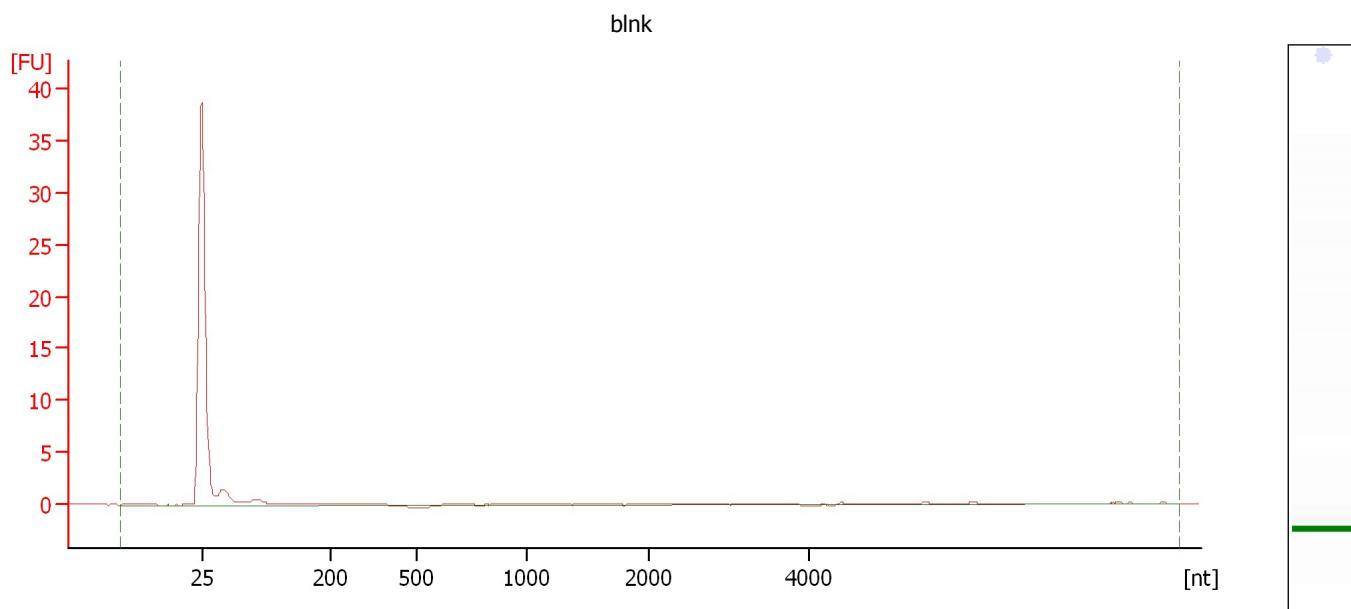
Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 7 : blnk**

|                         |          |                             |  |
|-------------------------|----------|-----------------------------|--|
| RNA Area:               | 7.5      | RNA Integrity Number (RIN): | 1 (B.02.07)  |
| RNA Concentration:      | 12 pg/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0      | Result Flagging Label:      | RIN:1  |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

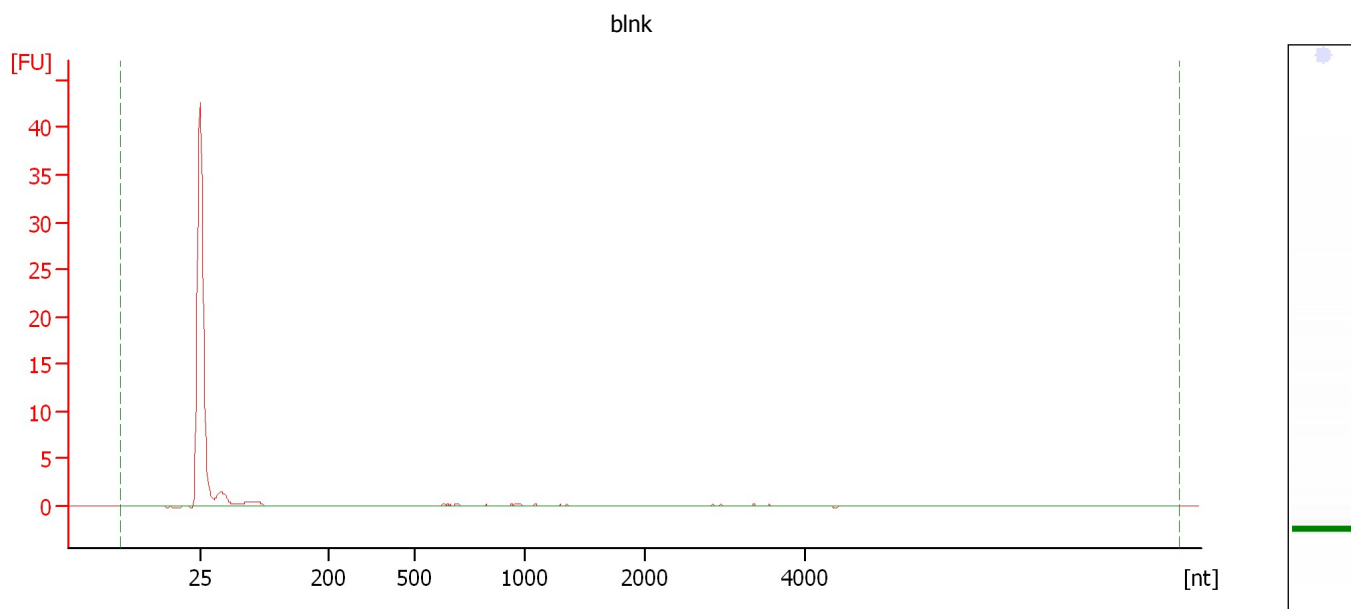
Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 8 : blnk**

|                         |                |                             |  |
|-------------------------|----------------|-----------------------------|--|
| RNA Area:               | 9.5            | RNA Integrity Number (RIN): | 1 (B.02.07)  |
| RNA Concentration:      | 15 pg/ $\mu$ l | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0            | Result Flagging Label:      | RIN:1  |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

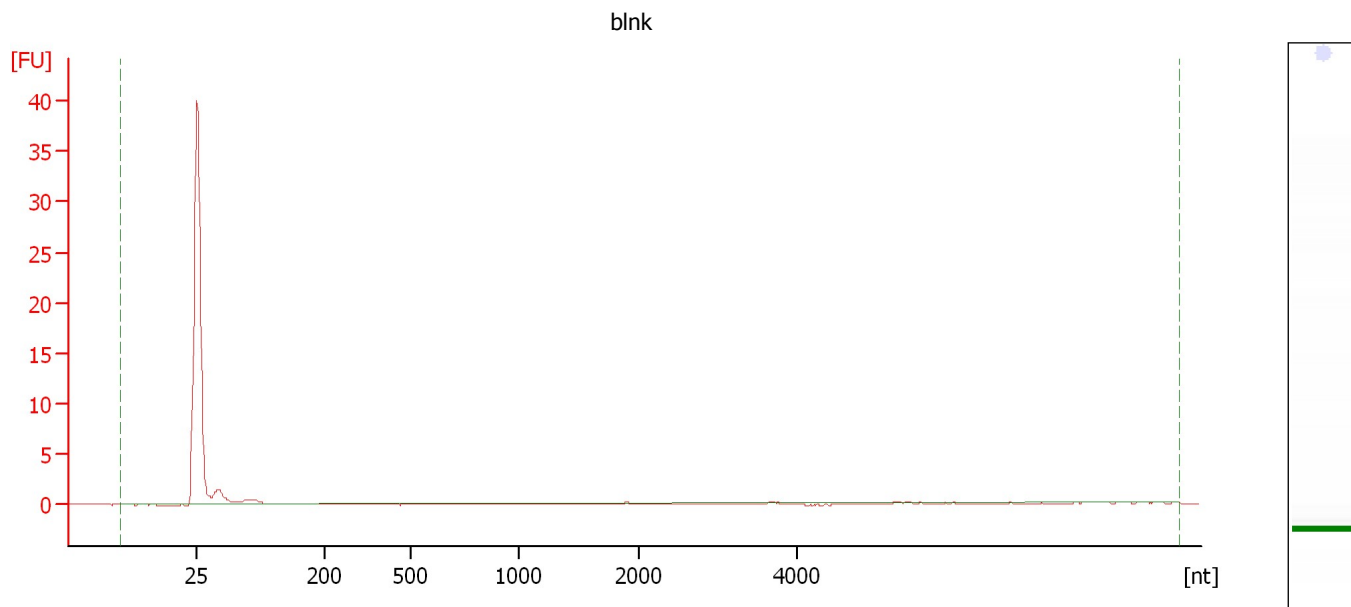
Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 9 : blnk**

|                         |          |                             |  |
|-------------------------|----------|-----------------------------|--|
| RNA Area:               | 12.4     | RNA Integrity Number (RIN): | 1 (B.02.07)  |
| RNA Concentration:      | 20 pg/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0      | Result Flagging Label:      | RIN:1  |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

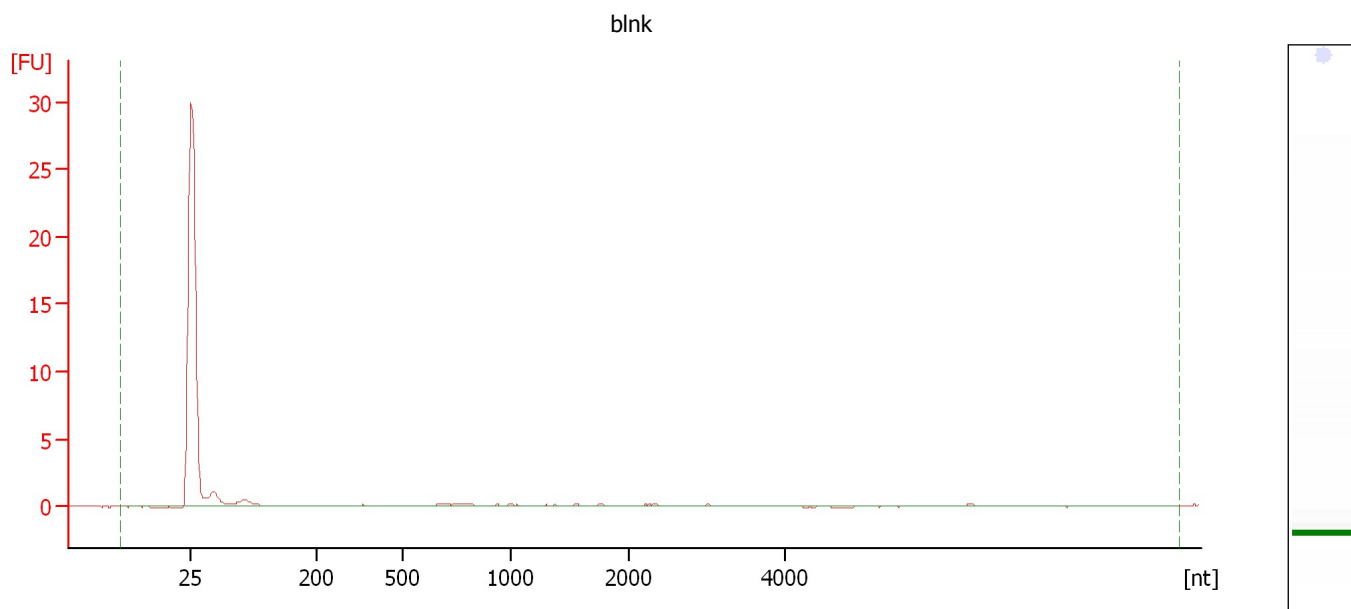
Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 10 : blnk**

|                         |          |                             |  |
|-------------------------|----------|-----------------------------|--|
| RNA Area:               | 7.2      | RNA Integrity Number (RIN): | 1 (B.02.07)  |
| RNA Concentration:      | 12 pg/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0      | Result Flagging Label:      | RIN:1  |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

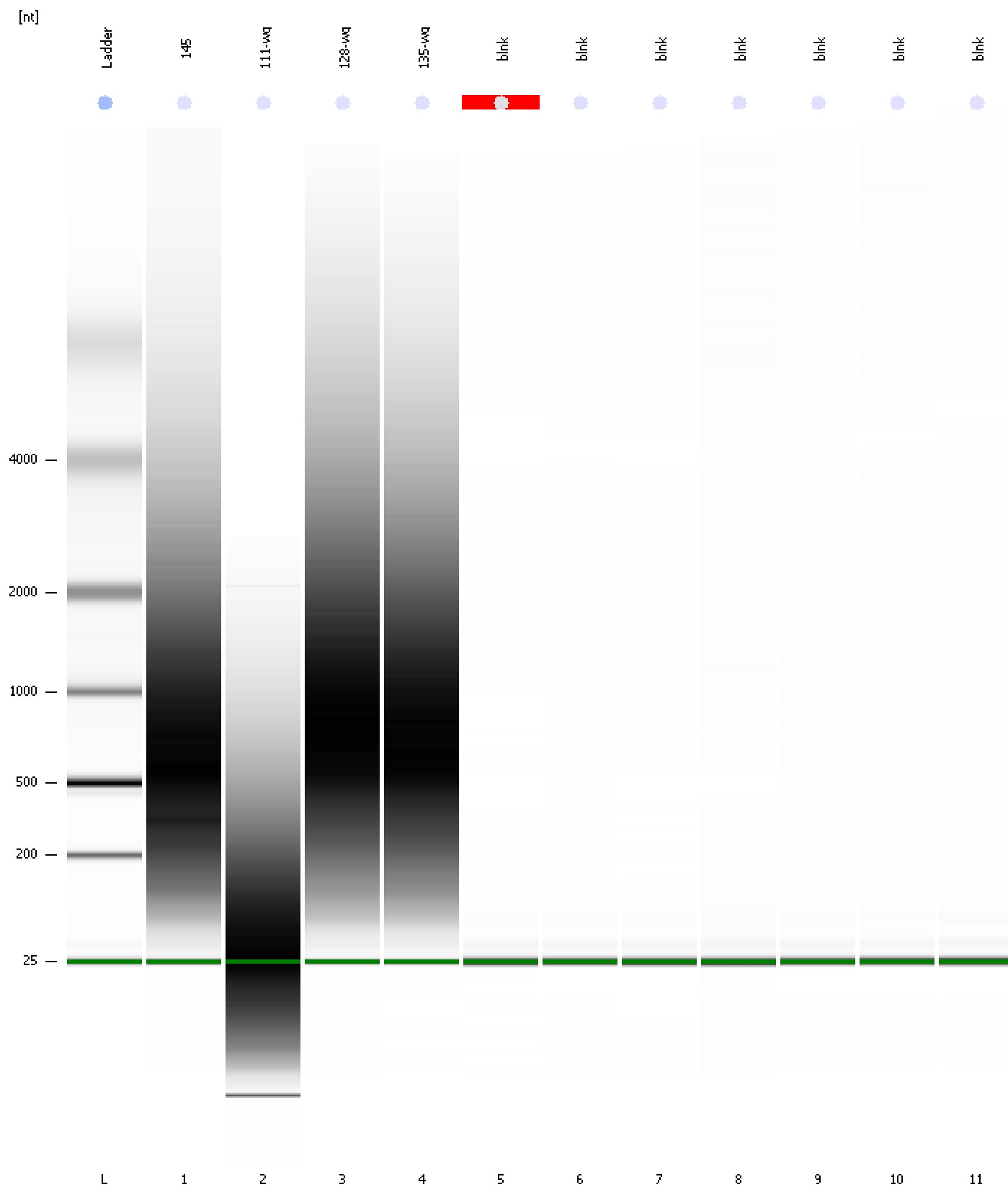
Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Electropherogram Summary Continued ...****Overall Results for sample 11 : blnk**

|                         |                |                             |  |
|-------------------------|----------------|-----------------------------|--|
| RNA Area:               | 8.1            | RNA Integrity Number (RIN): | 1 (B.02.07)  |
| RNA Concentration:      | 13 pg/ $\mu$ l | Result Flagging Color:      | <div style="background-color: #ccccff; border: 1px solid black; width: 60px; height: 15px;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0            | Result Flagging Label:      | RIN:1  |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

**Gel Image**

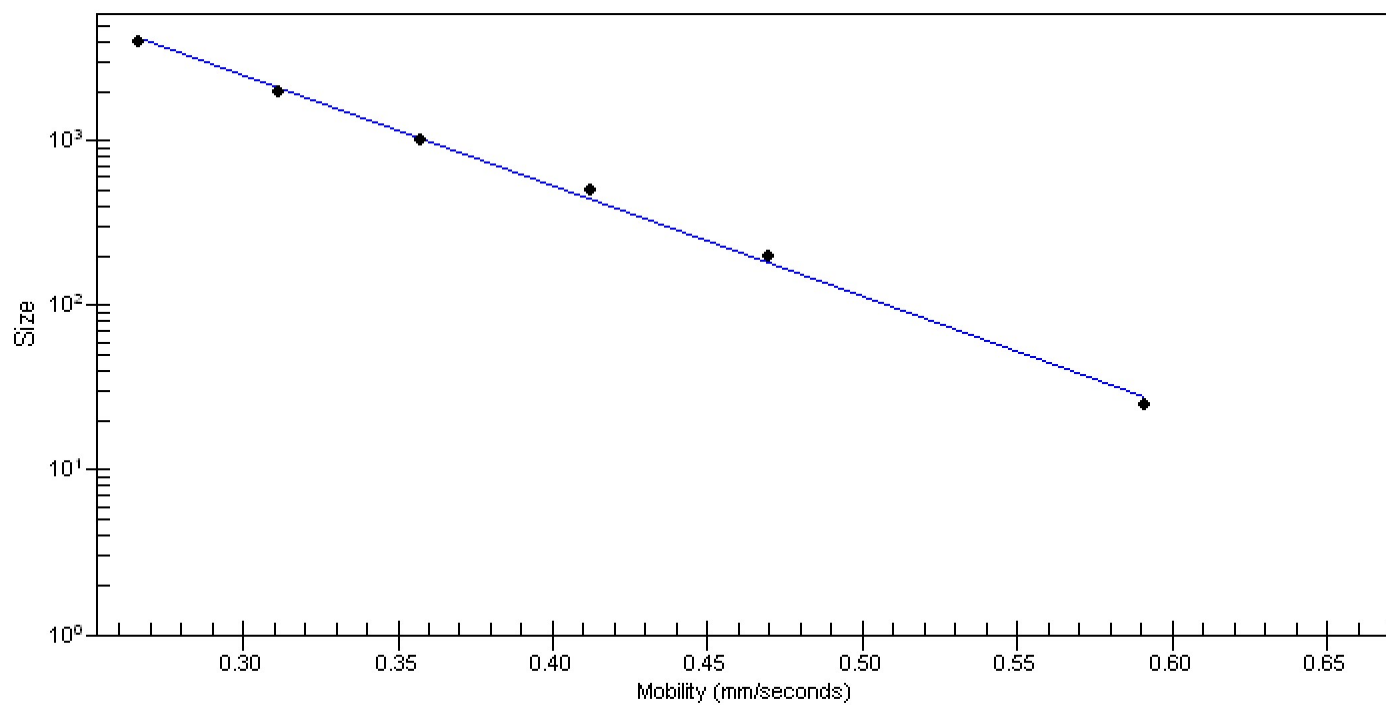


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad

Created: 12/2/2016 3:39:40 PM  
Modified: 12/2/2016 4:02:36 PM

## Curves

### Standard Curve



Assay Class: Eukaryote Total RNA Pico Created: 12/2/2016 3:39:40 PM  
 Data Path: C:\...Eukaryote Total RNA Pico\_DE72902486\_2016-12-02\_15-39-40.xad Modified: 12/2/2016 4:02:36 PM

**Run Logbook**

| Description   | Number | Source     | Category | Sub Category | Time Stamp           | Time Zone                           | User          | Host         |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|---------------|--------------|
| Run ended on port 1 (Number of wells acquired: 12)  |        | Instrument | Run      |              | 12/2/2016 4:02:33 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2016-12-02\2100 expert_Eukaryote Total RNA Pico_DE72902486_2016-12-02_15-39-40.xad) |        | Instrument | Run      |              | 12/2/2016 3:39:45 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Product Number : G2939A   |        | Instrument | Run      |              | 12/2/2016 3:39:45 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Name :  |        | Instrument | Run      |              | 12/2/2016 3:39:45 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Vendor : Agilent Technologies   |        | Instrument | Run      |              | 12/2/2016 3:39:45 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Serial# : DE72902486  |        | Instrument | Run      |              | 12/2/2016 3:39:45 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Firmware : C.01.069   |        | Instrument | Run      |              | 12/2/2016 3:39:45 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Cartridge : Electrode   |        | Instrument | Run      |              | 12/2/2016 3:39:45 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |