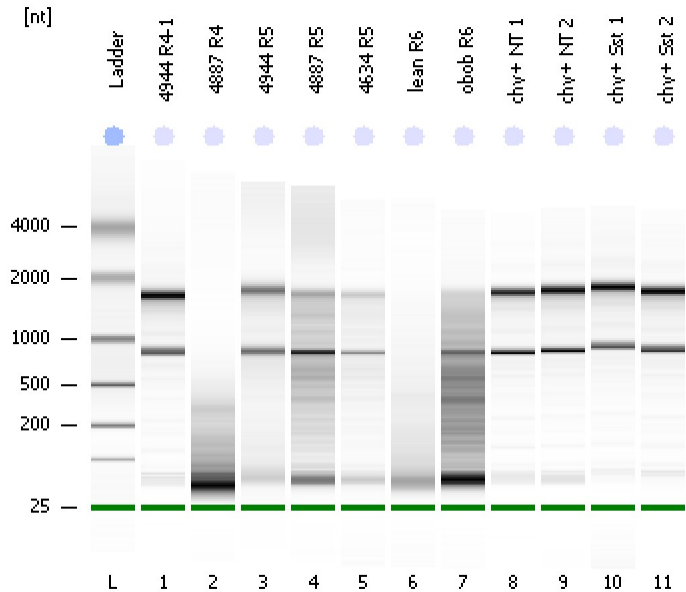


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

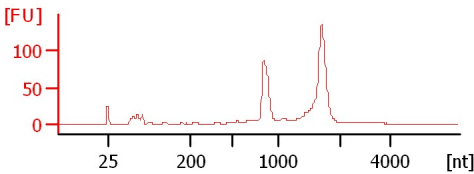
Assay Information:

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.

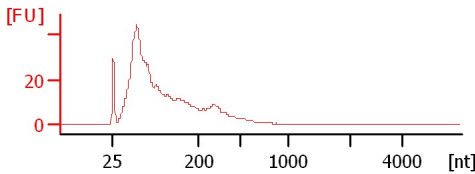
Chip Information:

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

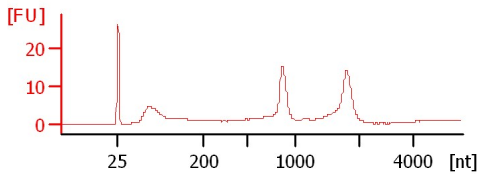
**4944 R4-1**  
RIN: 9.70



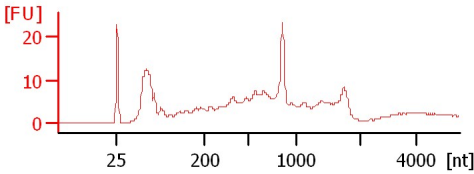
**4887 R4**  
RIN: 2.30



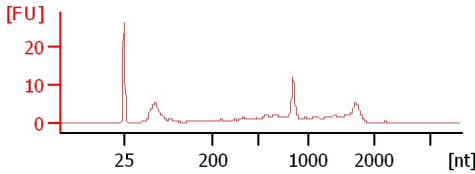
**4944 R5**  
RIN: 8.60



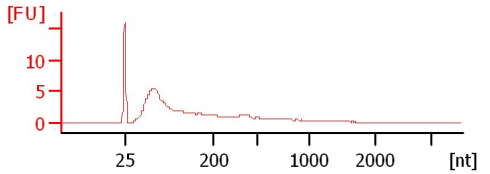
**4887 R5**  
RIN: 5.90



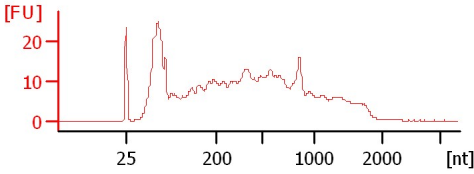
**4634 R5**  
RIN: 7.40



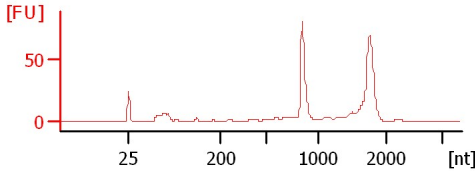
**lean R6**  
RIN: 2.40



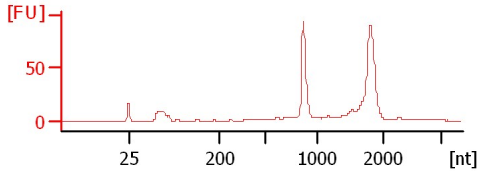
**obob R6**  
RIN: 2.90



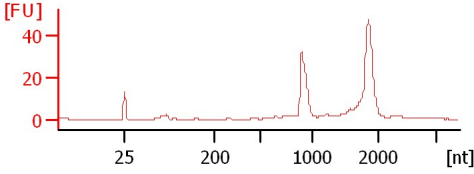
**chy+ NT 1**  
RIN: 9.40



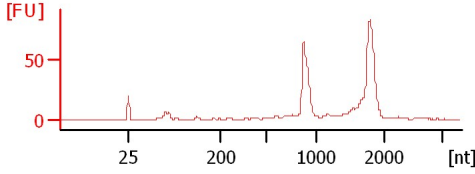
**chy+ NT 2**  
RIN: 9.60



**chy+ Sst 1**  
RIN: 10



**chy+ Sst 2**  
RIN: 9.70



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
 Modified: 8/31/2017 2:58:23 PM

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

| Sample Name | Sample Comment | Status | Result Label      | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| 4944 R4-1   |                | ✓      | RIN: 9.70         |              |
| 4887 R4     |                | ✓      | RIN: 2.30         |              |
| 4944 R5     |                | ✓      | RIN: 8.60         |              |
| 4887 R5     |                | ✓      | RIN: 5.90         |              |
| 4634 R5     |                | ✓      | RIN: 7.40         |              |
| lean R6     |                | ✓      | RIN: 2.40         |              |
| obob R6     |                | ✓      | RIN: 2.90         |              |
| chy+ NT 1   |                | ✓      | RIN: 9.40         |              |
| chy+ NT 2   |                | ✓      | RIN: 9.60         |              |
| chy+ Sst 1  |                | ✓      | RIN:10            |              |
| chy+ Sst 2  |                | ✓      | RIN: 9.70         |              |
| Ladder      |                | ✓      | All Other Samples |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 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

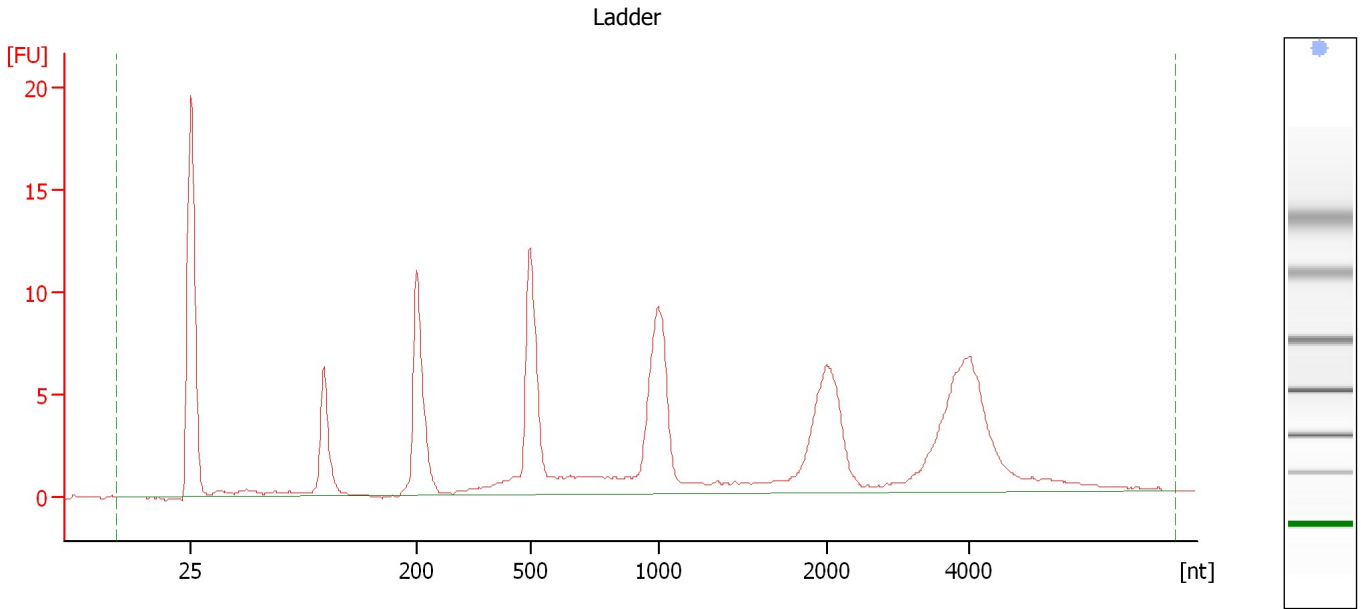
**Ladder**

| 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\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary**



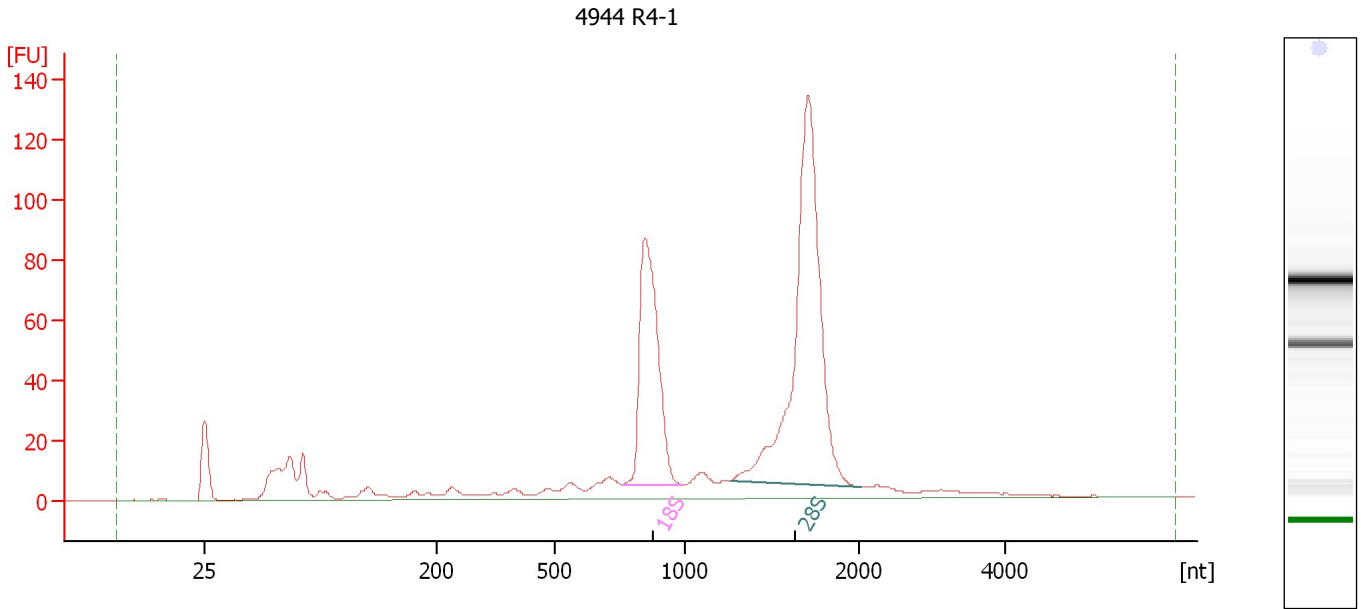
**Overall Results for Ladder**

|                    |             |                        |   |
|--------------------|-------------|------------------------|---|
| RNA Area:          | 135.3       | 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\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 4944 R4-1**

RNA Area: 838.9                      RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 6,198 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9                      Result Flagging Label: RIN: 9.70

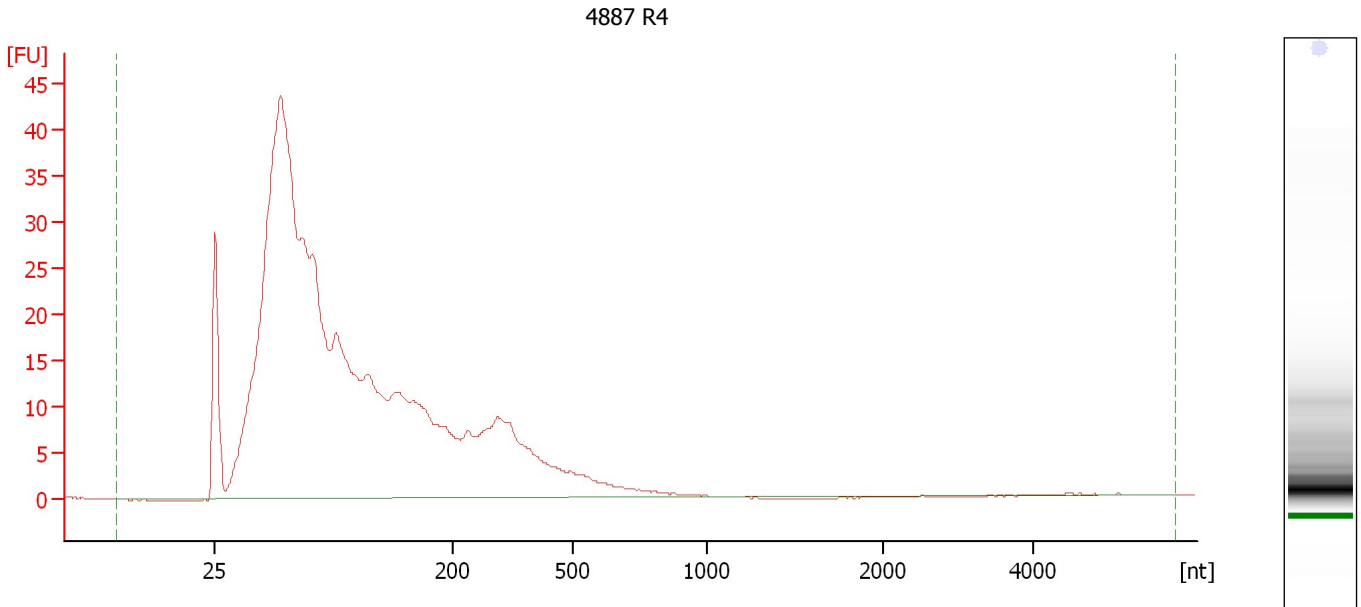
**Fragment table for sample 1 : 4944 R4-1**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 759             | 990           | 181.7 | 21.7            |
| 28S  | 1,257           | 2,046         | 337.6 | 40.2            |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



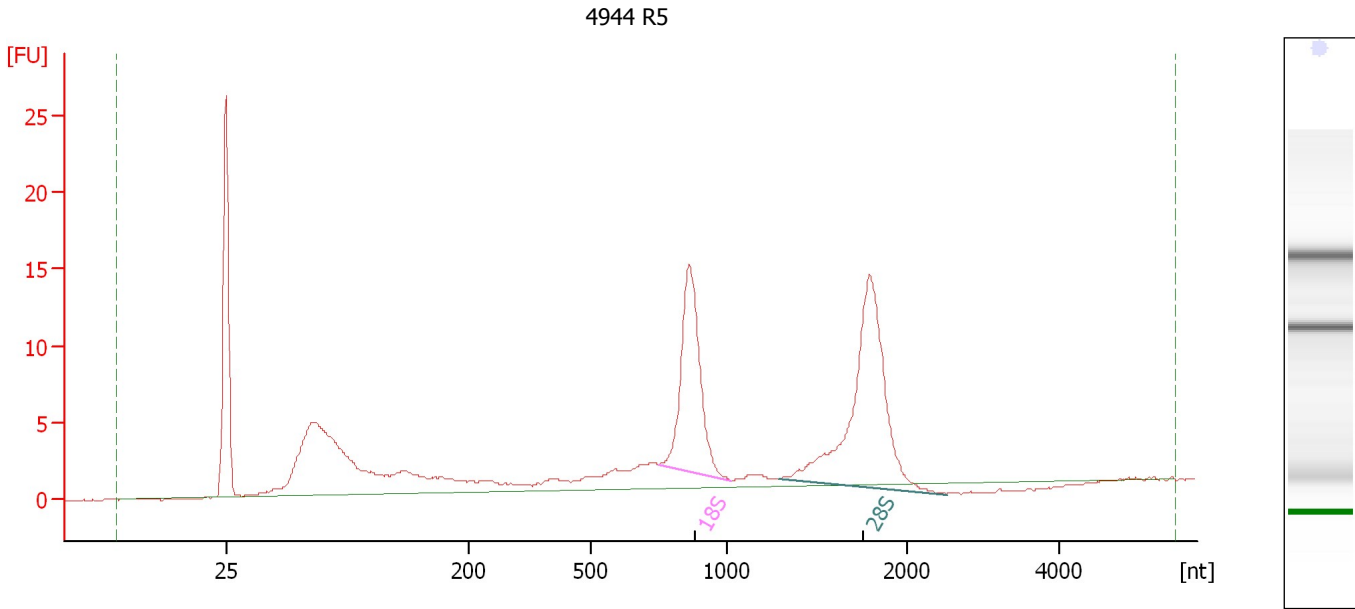
**Overall Results for sample 2 : 4887 R4**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 710.1       | RNA Integrity Number (RIN): | 2.3 (B.02.08)   |
| RNA Concentration:      | 5,247 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: 2.30   |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 4944 R5**

RNA Area: 156.9                      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 1,160 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5                      Result Flagging Label: RIN: 8.60

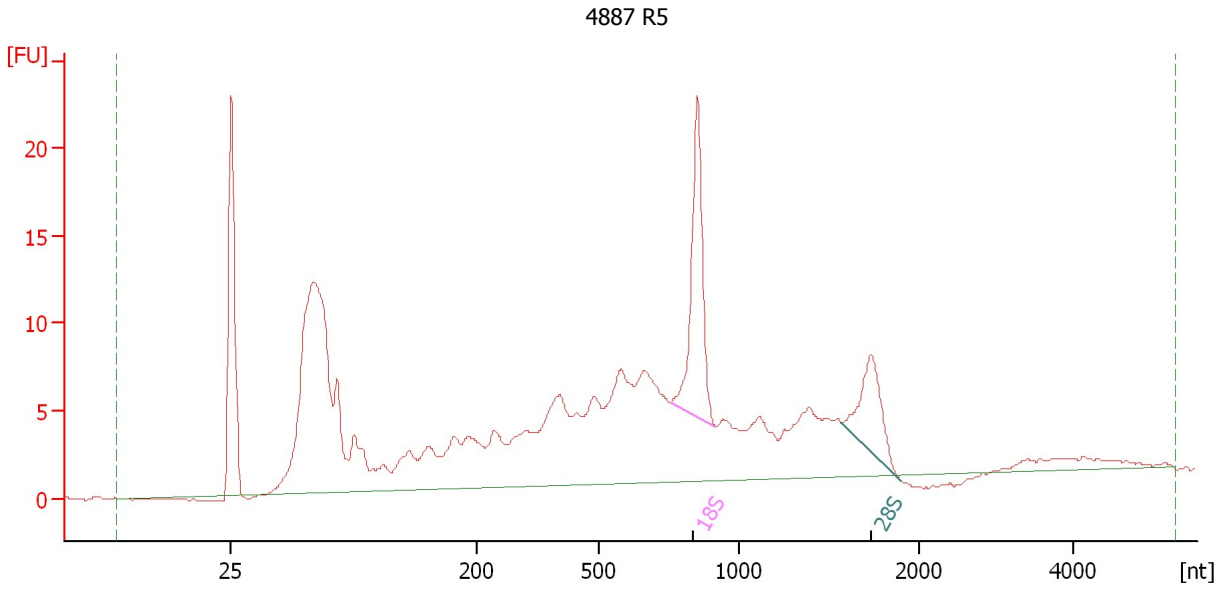
**Fragment table for sample 3 : 4944 R5**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 749             | 1,020         | 29.5 | 18.8            |
| 28S  | 1,282           | 2,508         | 43.7 | 27.9            |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 4887 R5**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 300.6       | RNA Integrity Number (RIN): | 5.9 (B.02.08,<br>Anomaly Threshold(s)<br>manually adapted)  |
| RNA Concentration:      | 2,221 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]: | 0.5         | Result Flagging Label:      | RIN: 5.90   |

**Fragment table for sample 4 : 4887 R5**

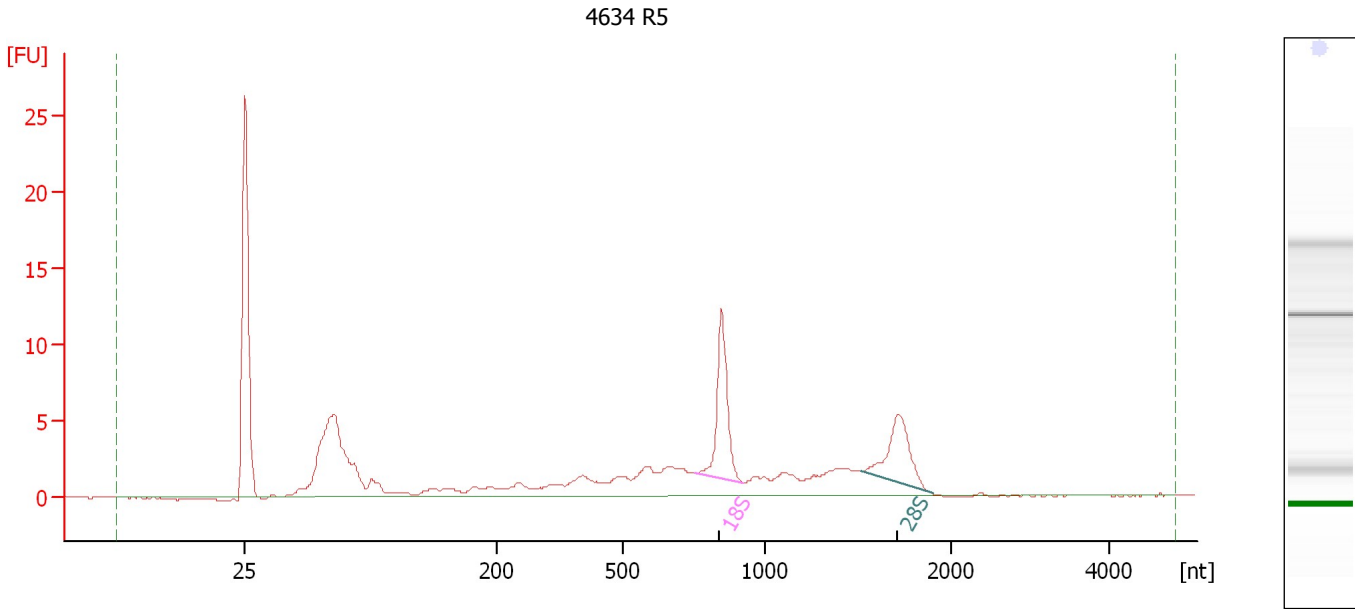
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 756             | 918           | 23.2 | 7.7             |
| 28S  | 1,569           | 1,898         | 11.2 | 3.7             |



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 4634 R5**

|                         |           |                             |   |
|-------------------------|-----------|-----------------------------|---|
| RNA Area:               | 103.4     | RNA Integrity Number (RIN): | 7.4 (B.02.08)   |
| RNA Concentration:      | 764 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]: | 0.8       | Result Flagging Label:      | RIN: 7.40   |

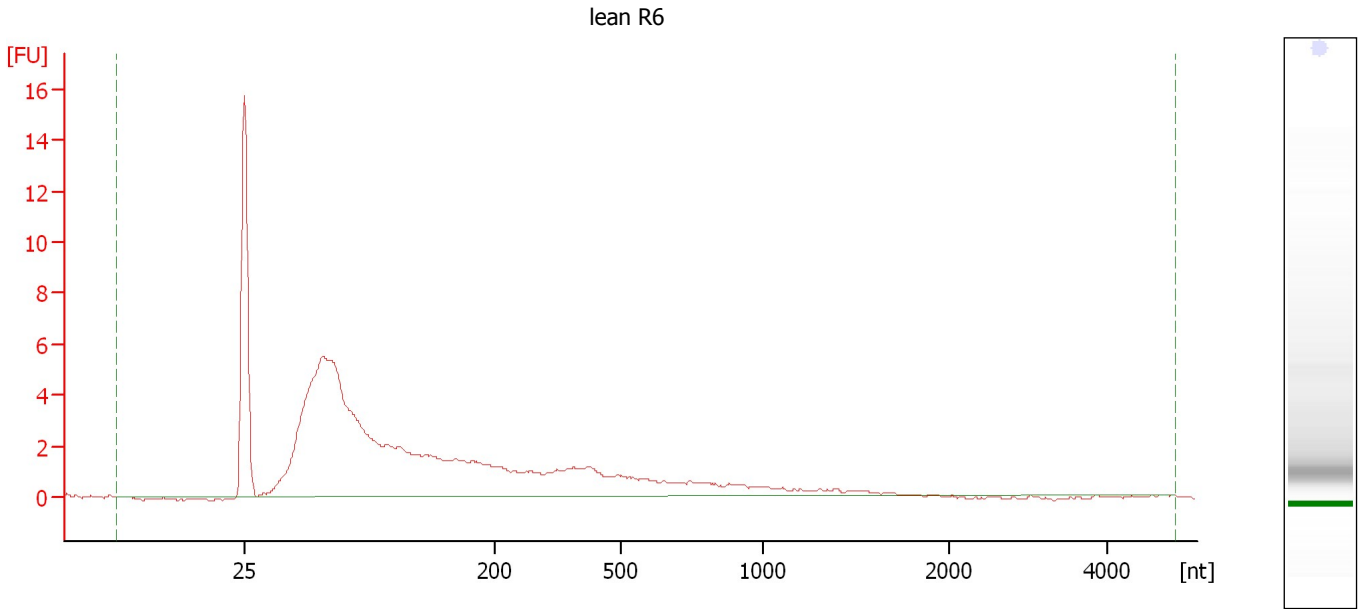
**Fragment table for sample 5 : 4634 R5**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 753             | 922           | 12.4 | 12.0            |
| 28S  | 1,517           | 1,896         | 9.5  | 9.2             |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



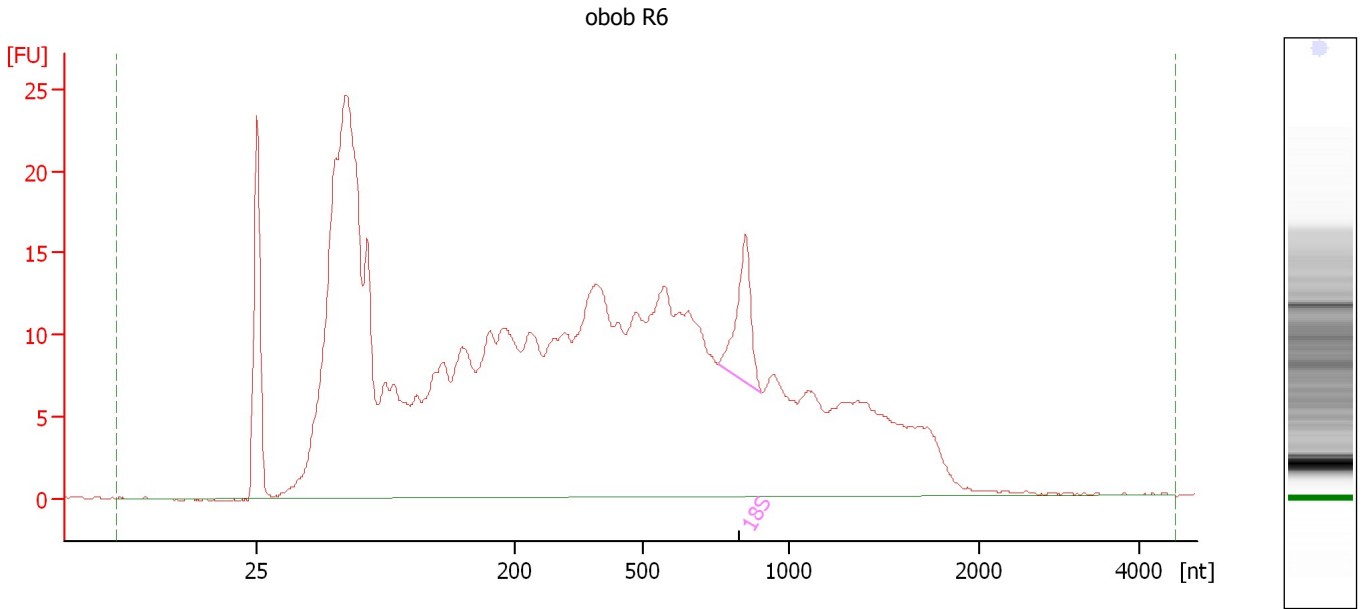
**Overall Results for sample 6 : lean R6**

|                         |           |                             |   |
|-------------------------|-----------|-----------------------------|---|
| RNA Area:               | 102.3     | RNA Integrity Number (RIN): | 2.4 (B.02.08)   |
| RNA Concentration:      | 756 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: 2.40   |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : obob R6**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 668.7       | RNA Integrity Number (RIN): | 2.9 (B.02.08)   |
| RNA Concentration:      | 4,940 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: 2.90   |

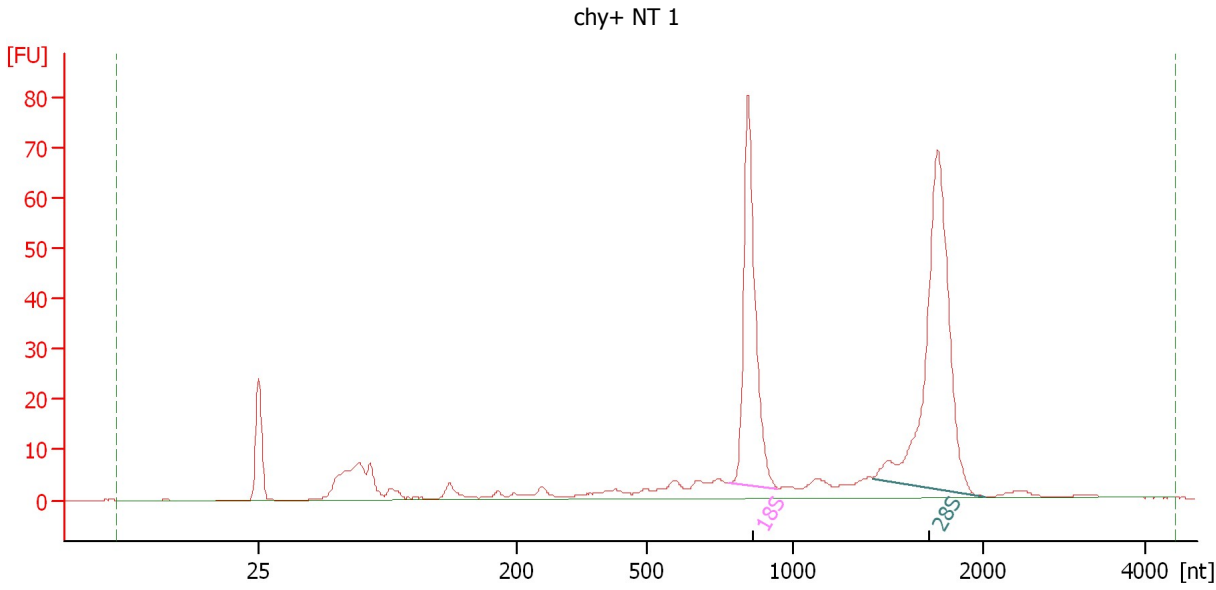
**Fragment table for sample 7 : obob R6**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 760             | 907           | 13.7 | 2.0             |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : chy+ NT 1**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 401.4       | RNA Integrity Number (RIN): | 9.4 (B.02.08)   |
| RNA Concentration:      | 2,966 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]: | 1.5         | Result Flagging Label:      | RIN: 9.40   |

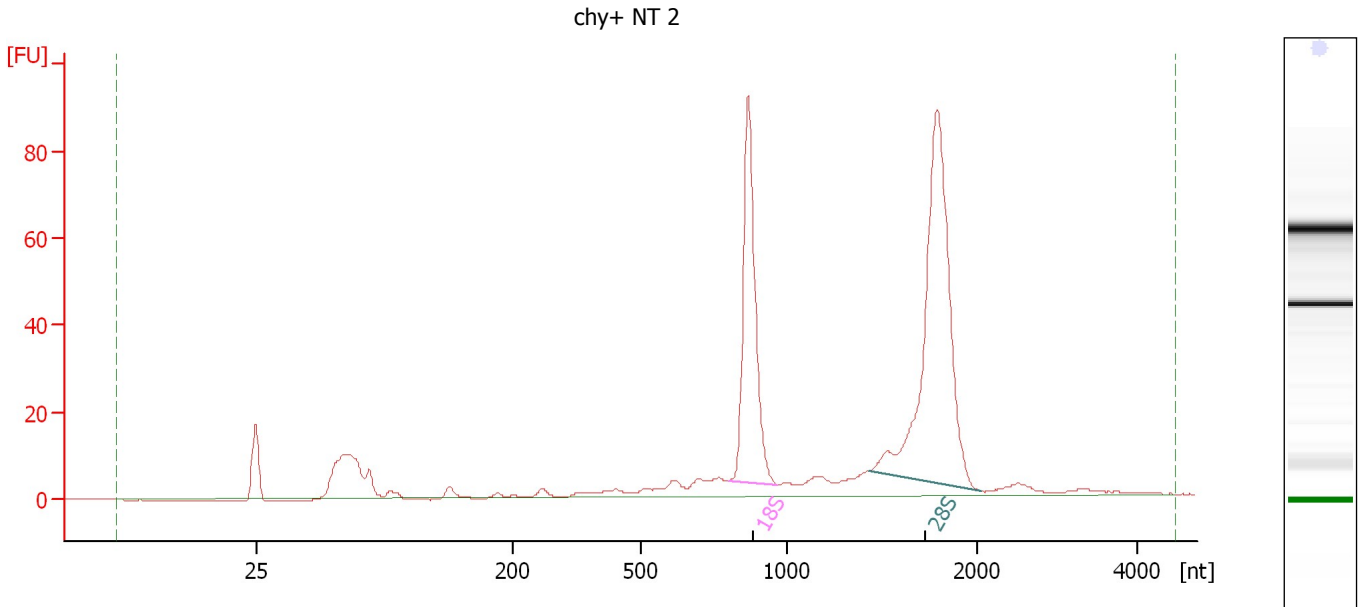
**Fragment table for sample 8 : chy+ NT 1**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 780             | 948           | 97.6  | 24.3            |
| 28S  | 1,418           | 2,013         | 145.2 | 36.2            |

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
 Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : chy+ NT 2**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 501.7       | RNA Integrity Number (RIN): | 9.6 (B.02.08)   |
| RNA Concentration:      | 3,707 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: 9.60   |

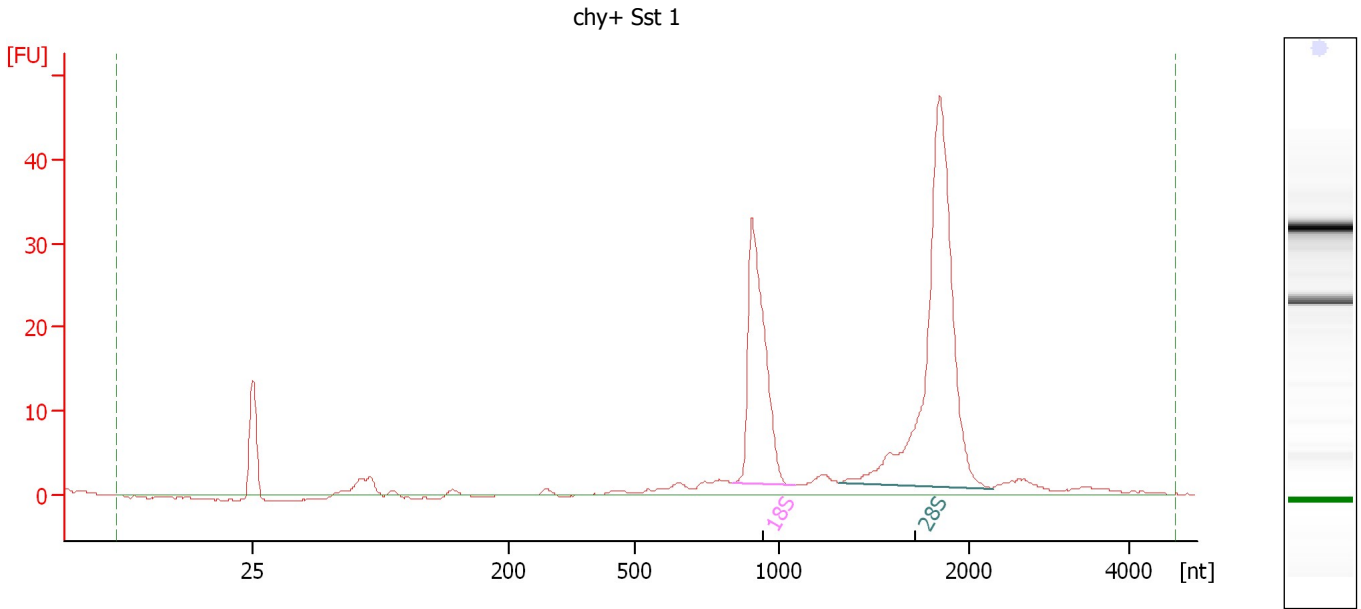
**Fragment table for sample 9 : chy+ NT 2**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 800             | 969           | 115.5 | 23.0            |
| 28S  | 1,431           | 2,065         | 201.0 | 40.1            |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : chy+ Sst 1**

RNA Area: 225.1      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 1,663 pg/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9      Result Flagging Label: RIN:10

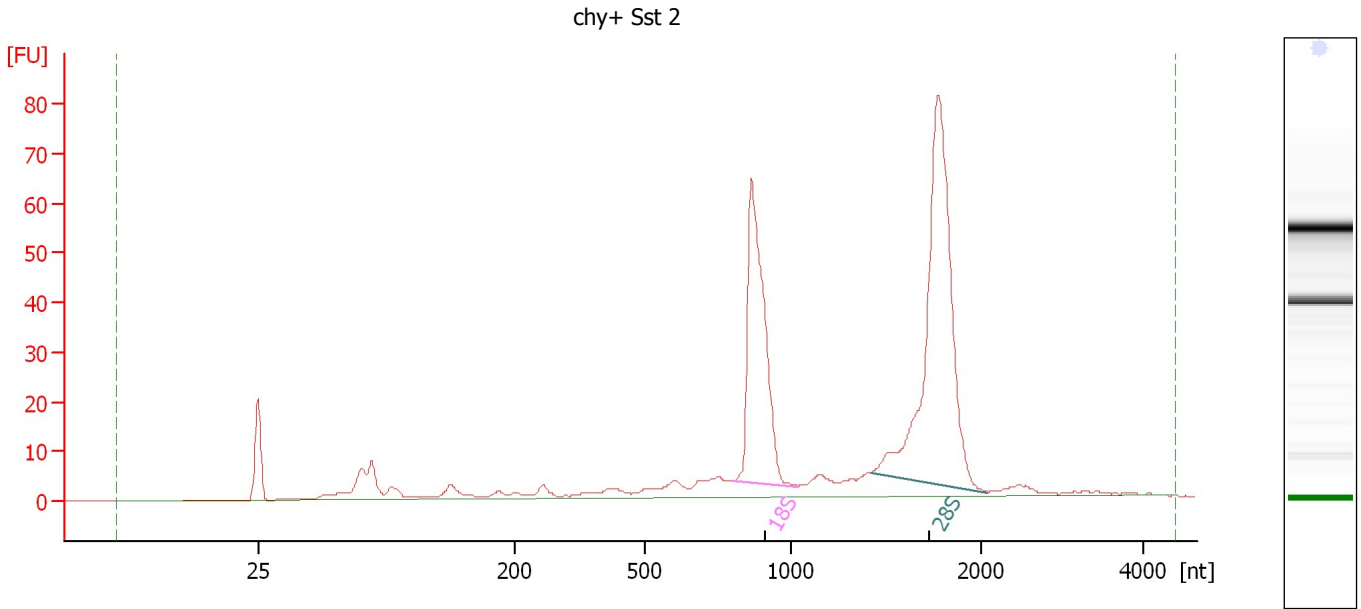
**Fragment table for sample 10 : chy+ Sst 1**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 839             | 1,077         | 56.7  | 25.2            |
| 28S  | 1,314           | 2,291         | 110.6 | 49.1            |

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
 Modified: 8/31/2017 2:58:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : chy+ Sst 2**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 459.6       | RNA Integrity Number (RIN): | 9.7 (B.02.08)   |
| RNA Concentration:      | 3,396 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: 9.70   |

**Fragment table for sample 11 : chy+ Sst 2**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 805             | 1,038         | 110.5 | 24.0            |
| 28S  | 1,419           | 2,083         | 180.4 | 39.3            |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-31\2017-08-31\_002.xad

Created: 8/31/2017 2:31:26 PM  
Modified: 8/31/2017 2:58:23 PM

**Gel Image**

