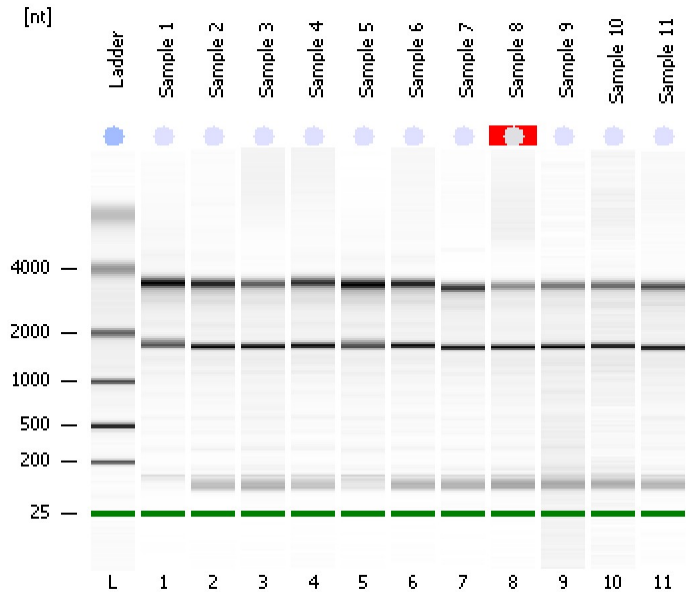


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electrophoresis File Run Summary



Instrument Information:

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

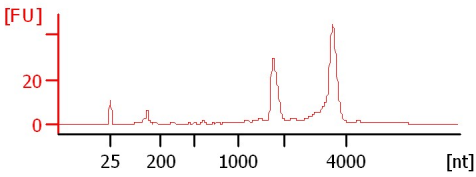
Assay Information:

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.

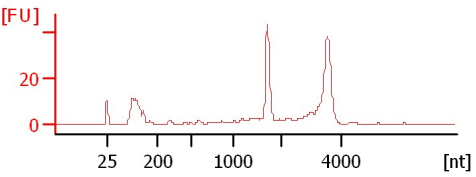
Chip Information:

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

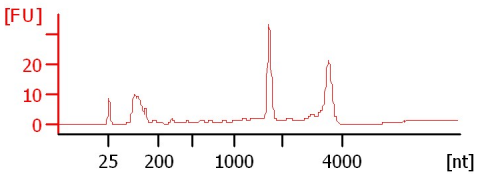
Sample 1
RIN: 9.70



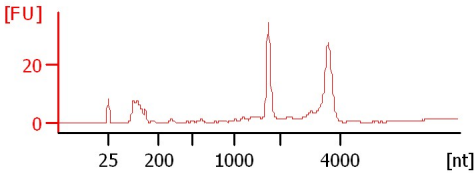
Sample 2
RIN: 8.90



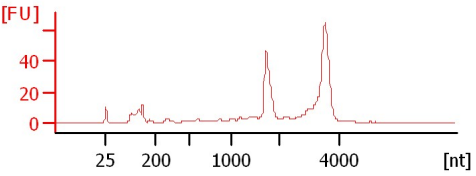
Sample 3
RIN: 8.20



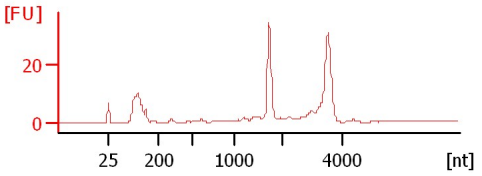
Sample 4
RIN: 9.10



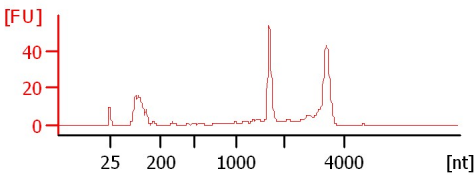
Sample 5
RIN: 9.20



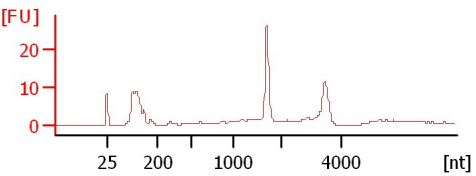
Sample 6
RIN: 9



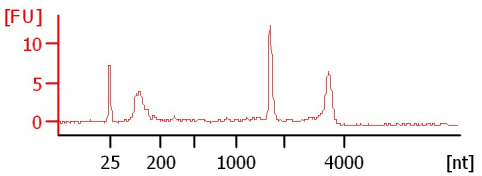
Sample 7
RIN: 8.80



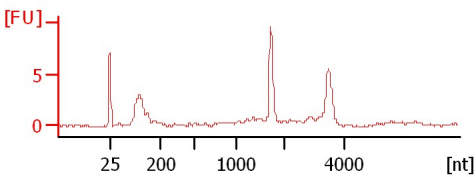
Sample 8
RIN N/A



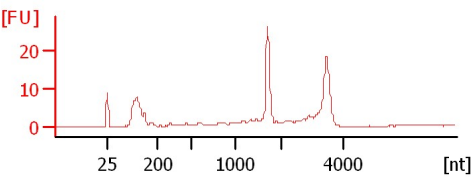
Sample 9
RIN: 8.10



Sample 10
RIN: 8.40



Sample 11
RIN: 8.30



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| Sample 1 | | ✓ | RIN: 9.70 | |
| Sample 2 | | ✓ | RIN: 8.90 | |
| Sample 3 | | ✓ | RIN: 8.20 | |
| Sample 4 | | ✓ | RIN: 9.10 | |
| Sample 5 | | ✓ | RIN: 9.20 | |
| Sample 6 | | ✓ | RIN:9 | |
| Sample 7 | | ✓ | RIN: 8.80 | |
| Sample 8 | | ✓ | RIN N/A | |
| Sample 9 | | ✓ | RIN: 8.10 | |
| Sample 10 | | ✓ | RIN: 8.40 | |
| Sample 11 | | ✓ | RIN: 8.30 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 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/ μ l] : 1000

Lower Marker Concentration [pg/ μ l] : 0

Upper Marker Concentration [pg/ μ 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

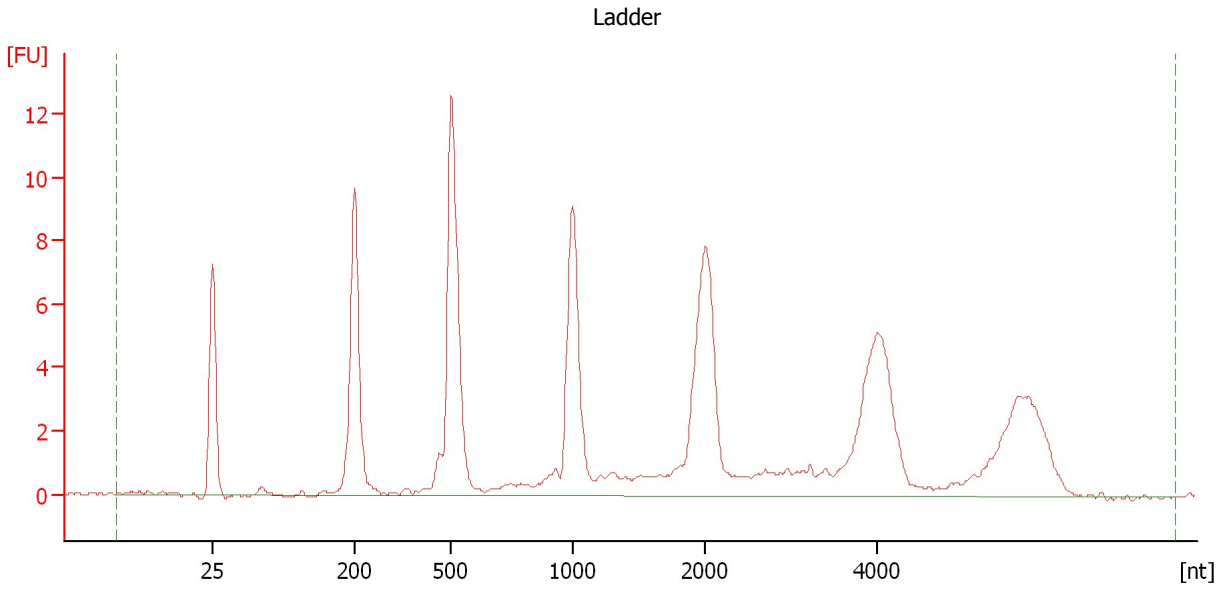
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary



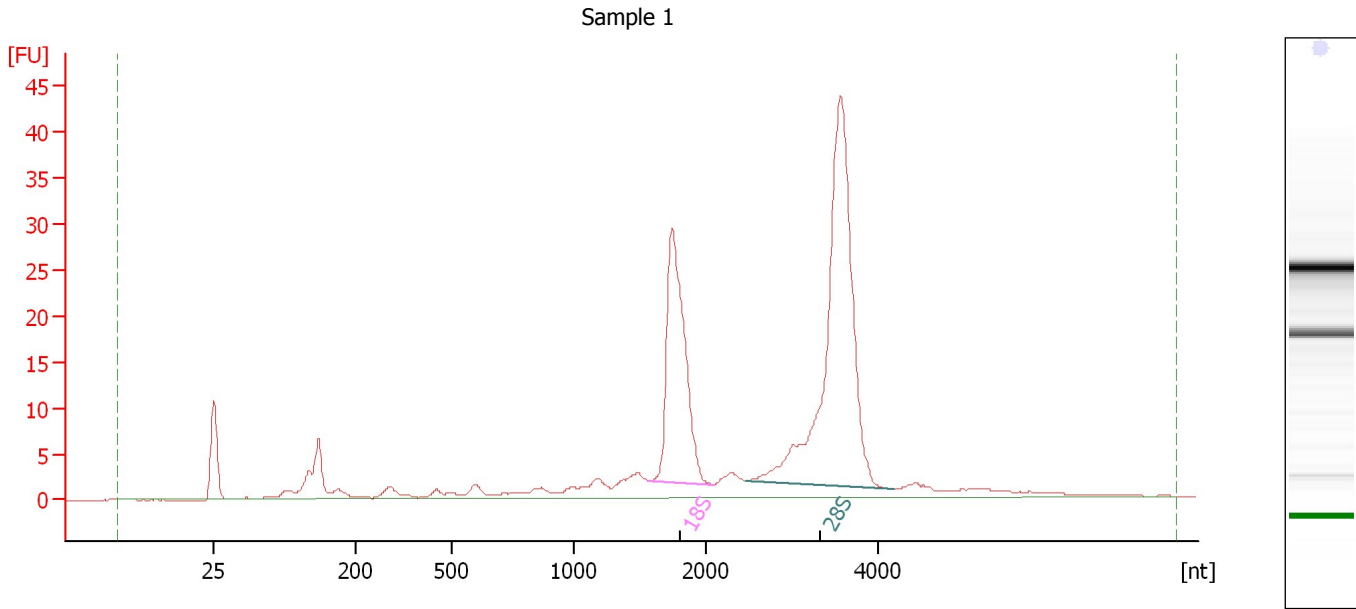
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 120.1 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area: 270.9 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 2,255 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.70

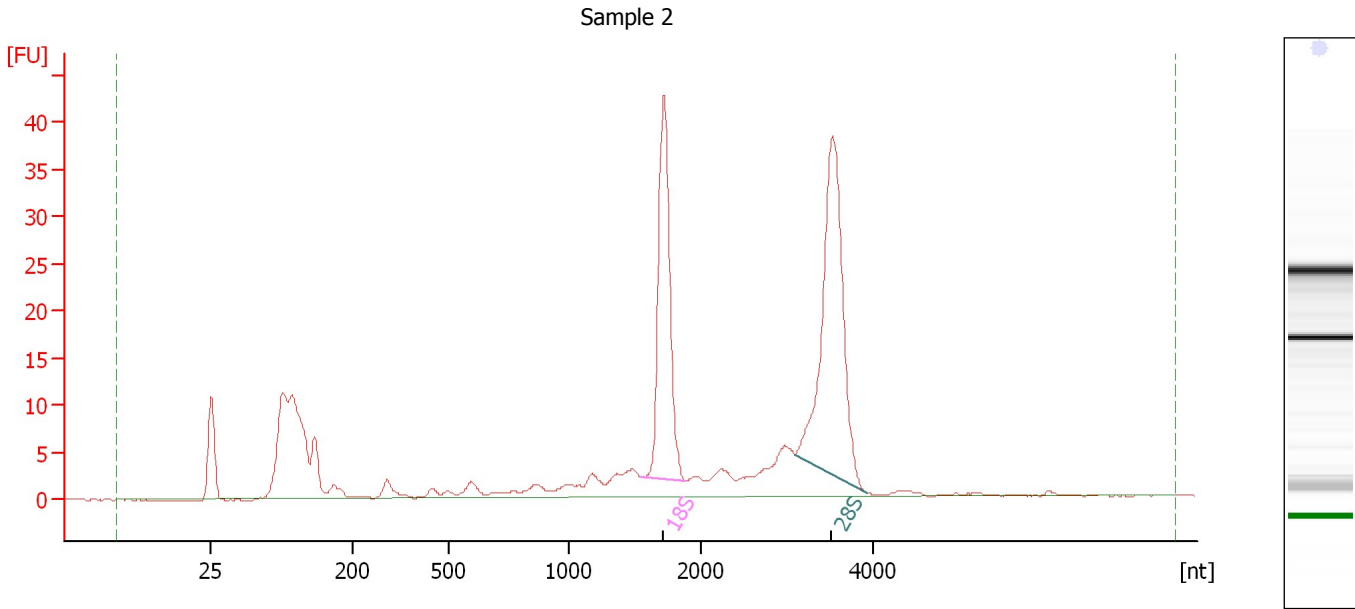
Fragment table for sample 1 : Sample 1

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,560 | 2,086 | 59.0 | 21.8 |
| 28S | 2,459 | 4,186 | 111.2 | 41.1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

| | | | |
|-------------------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 284.7 | RNA Integrity Number (RIN): | 8.9 (B.02.08) |
| RNA Concentration: | 2,369 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.4 | Result Flagging Label: | RIN: 8.90 |

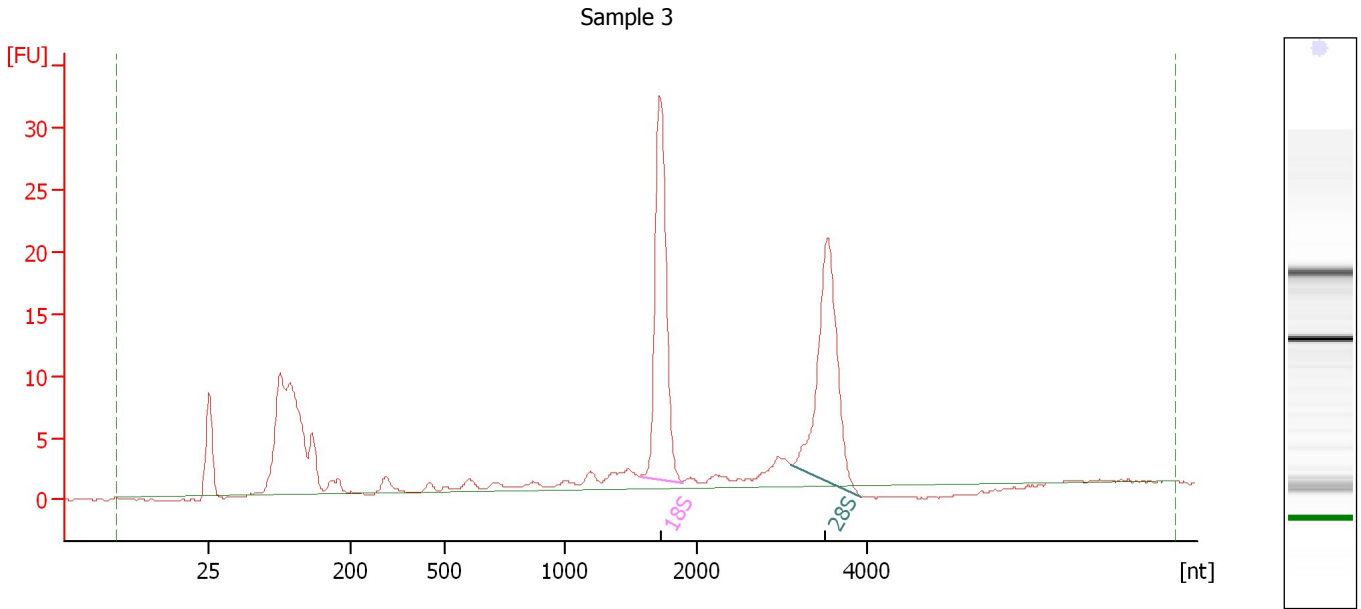
Fragment table for sample 2 : Sample 2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,549 | 1,878 | 55.2 | 19.4 |
| 28S | 3,084 | 3,920 | 75.1 | 26.4 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

| | | | |
|-------------------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 173.7 | RNA Integrity Number (RIN): | 8.2 (B.02.08) |
| RNA Concentration: | 1,445 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.0 | Result Flagging Label: | RIN: 8.20 |

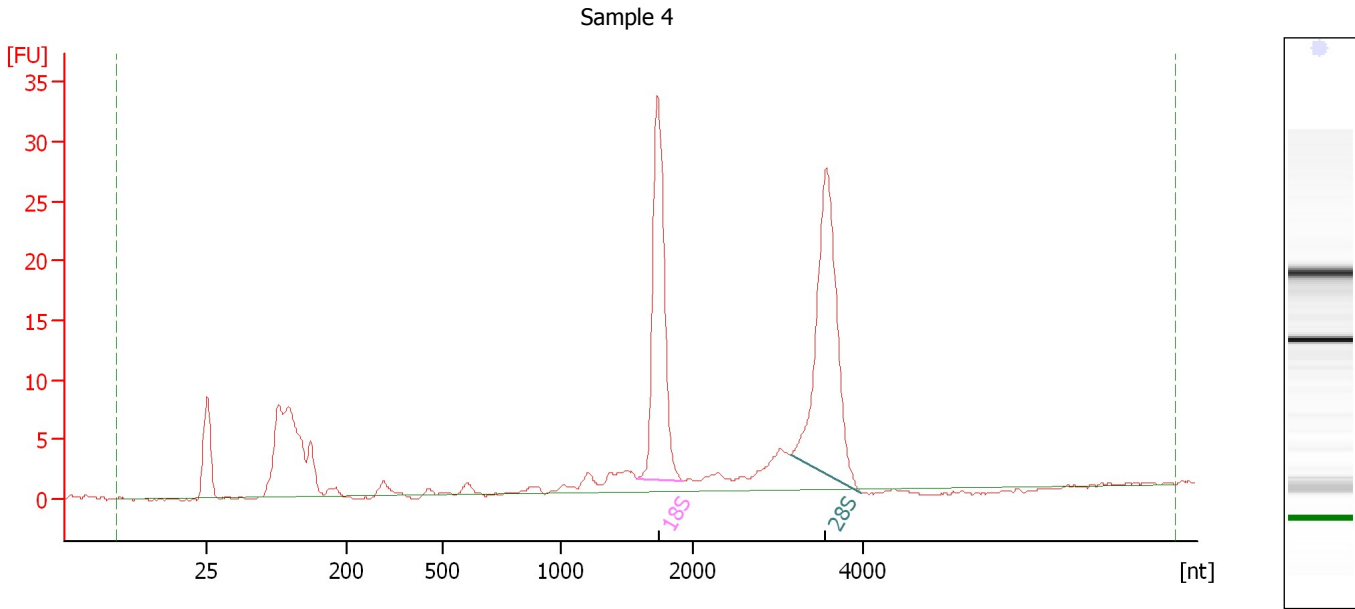
Fragment table for sample 3 : Sample 3

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,571 | 1,885 | 41.0 | 23.6 |
| 28S | 3,100 | 3,914 | 39.2 | 22.6 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

| | | | |
|-------------------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 188.6 | RNA Integrity Number (RIN): | 9.1 (B.02.08) |
| RNA Concentration: | 1,570 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.2 | Result Flagging Label: | RIN: 9.10 |

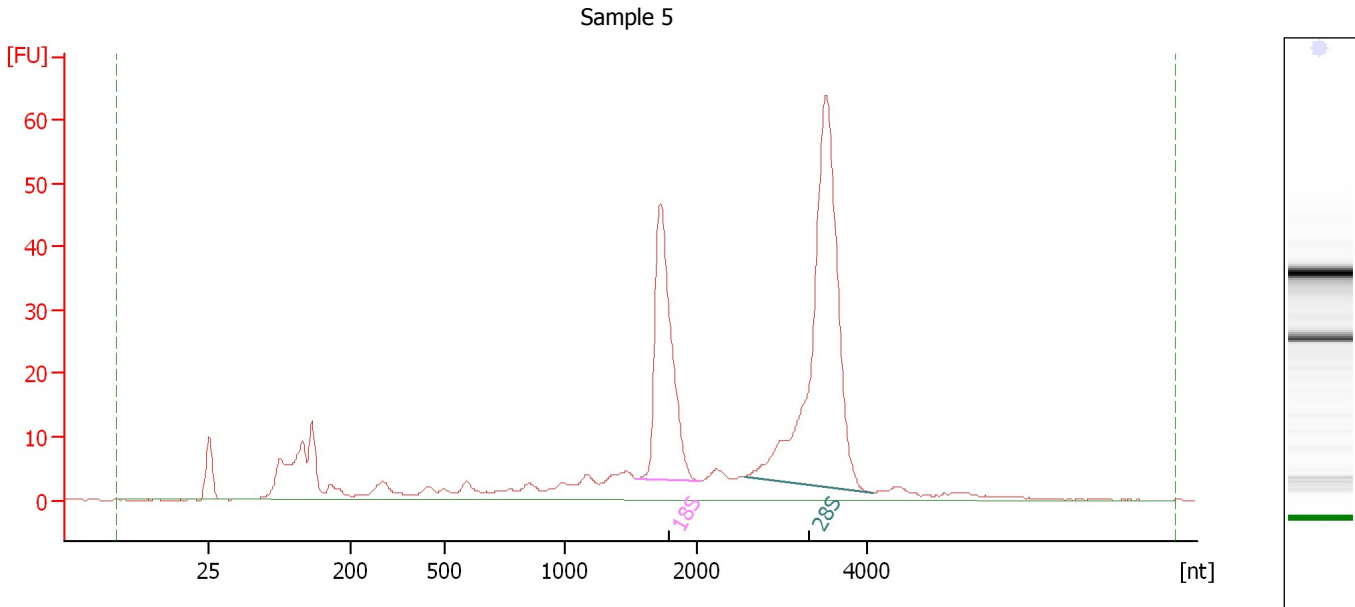
Fragment table for sample 4 : Sample 4

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,568 | 1,925 | 44.9 | 23.8 |
| 28S | 3,141 | 3,972 | 53.4 | 28.3 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

| | | | |
|-------------------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 453.1 | RNA Integrity Number (RIN): | 9.2 (B.02.08) |
| RNA Concentration: | 3,771 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.9 | Result Flagging Label: | RIN: 9.20 |

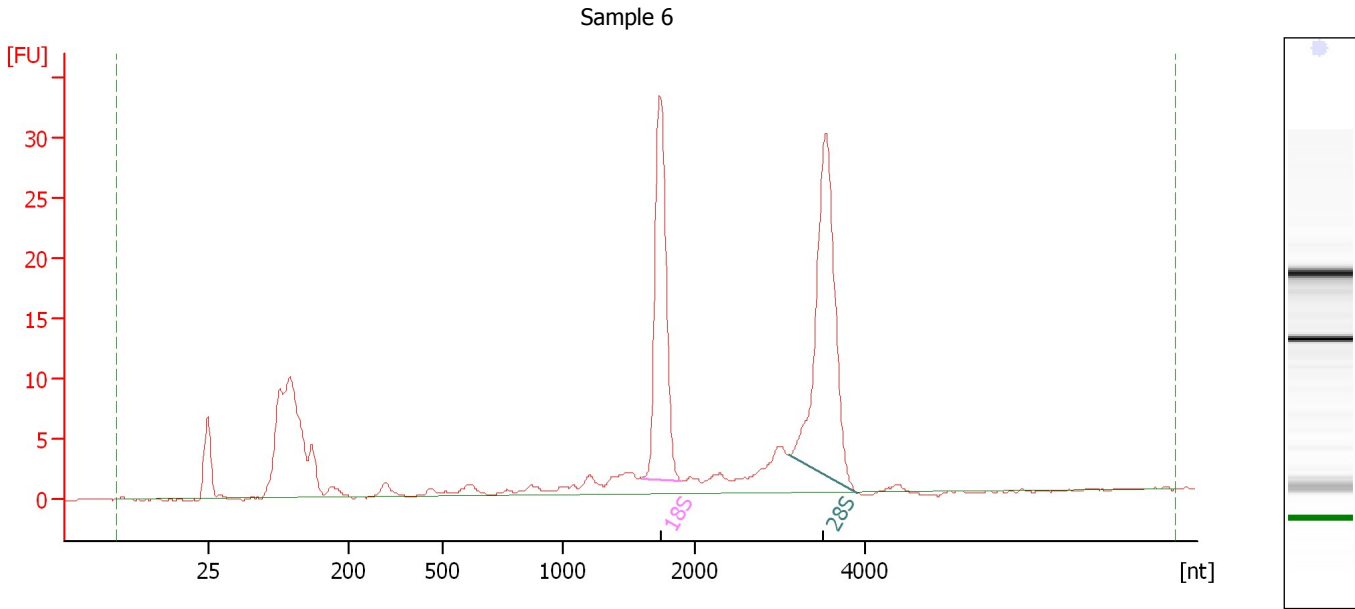
Fragment table for sample 5 : Sample 5

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,546 | 2,048 | 85.3 | 18.8 |
| 28S | 2,561 | 4,064 | 165.8 | 36.6 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area: 204.9 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 1,705 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN:9

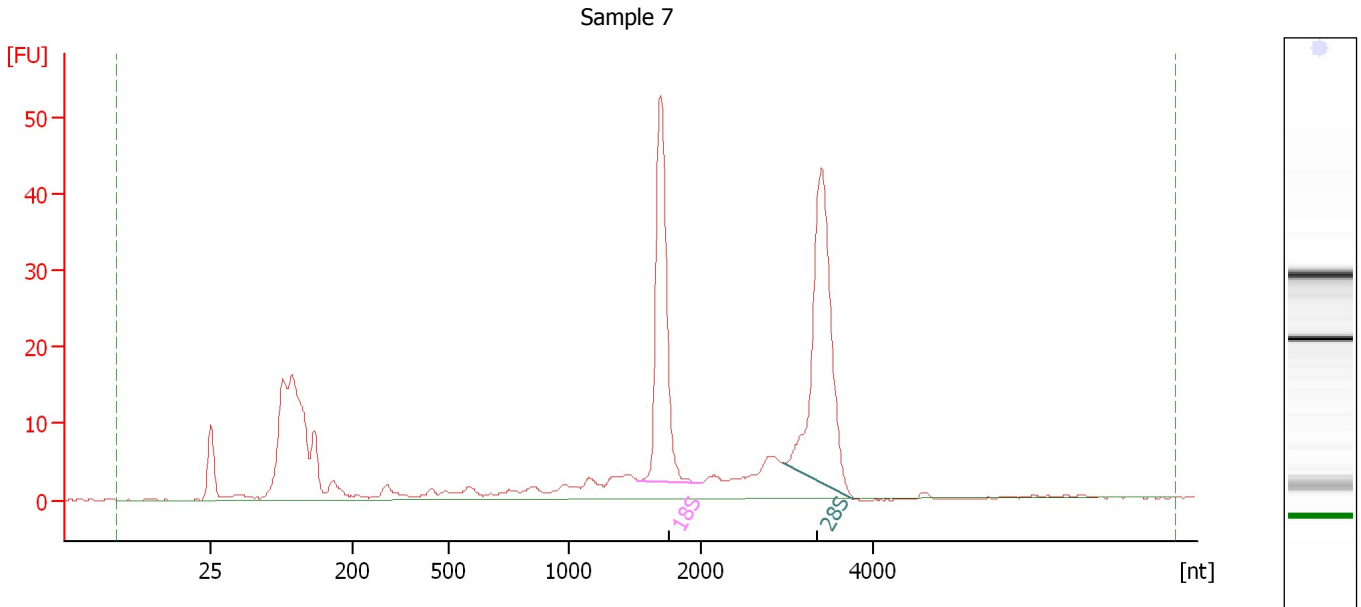
Fragment table for sample 6 : Sample 6

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,602 | 1,893 | 42.6 | 20.8 |
| 28S | 3,102 | 3,893 | 54.9 | 26.8 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

| | | | |
|-------------------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 339.8 | RNA Integrity Number (RIN): | 8.8 (B.02.08) |
| RNA Concentration: | 2,828 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.2 | Result Flagging Label: | RIN: 8.80 |

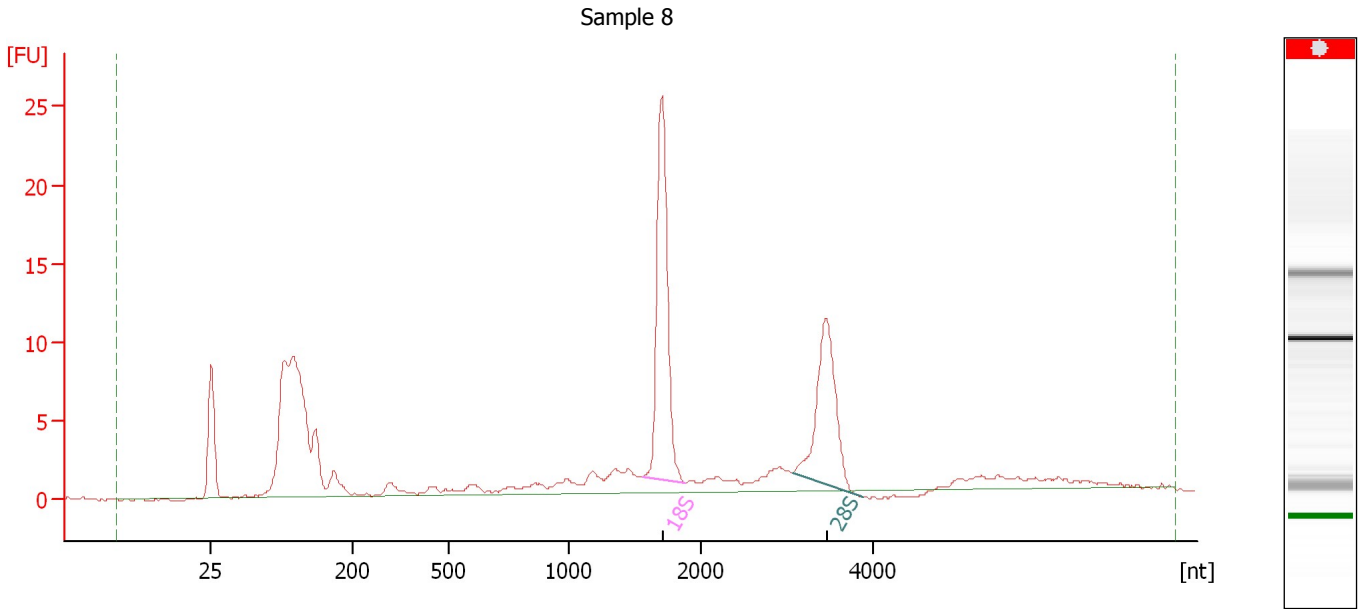
Fragment table for sample 7 : Sample 7

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,517 | 1,991 | 64.0 | 18.8 |
| 28S | 2,959 | 3,770 | 78.5 | 23.1 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
 Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

| | | | |
|-------------------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 147.8 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 1,230 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.7 | Result Flagging Label: | RIN N/A |

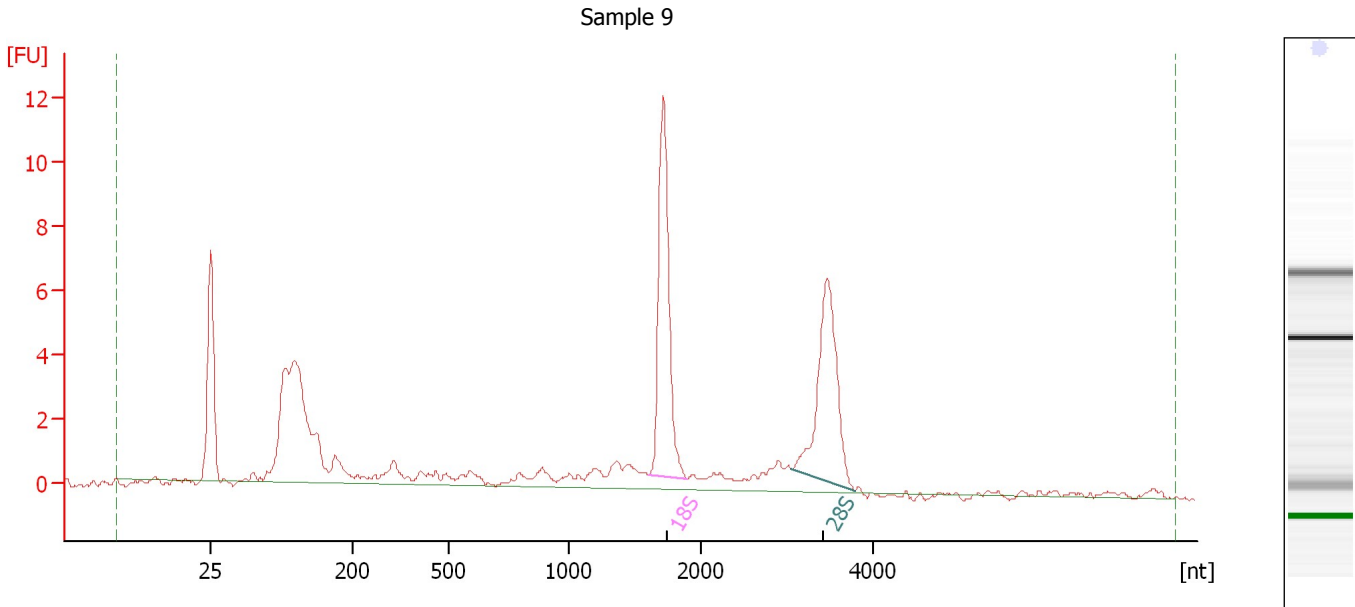
Fragment table for sample 8 : Sample 8

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,557 | 1,870 | 30.6 | 20.7 |
| 28S | 3,059 | 3,882 | 20.6 | 13.9 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

| | | | |
|-------------------------|-----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 69.8 | RNA Integrity Number (RIN): | 8.1 (B.02.08) |
| RNA Concentration: | 581 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.9 | Result Flagging Label: | RIN: 8.10 |

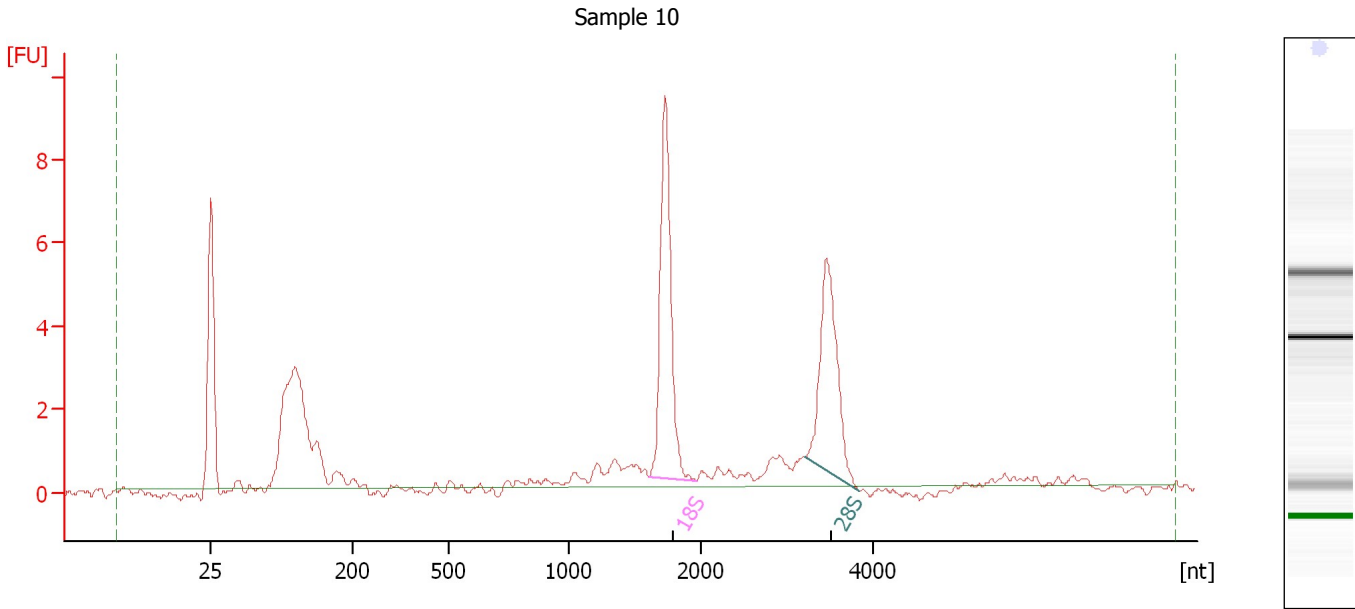
Fragment table for sample 9 : Sample 9

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,597 | 1,894 | 14.3 | 20.5 |
| 28S | 3,034 | 3,782 | 12.4 | 17.8 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

| | | | |
|-------------------------|-----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 48.3 | RNA Integrity Number (RIN): | 8.4 (B.02.08) |
| RNA Concentration: | 402 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.8 | Result Flagging Label: | RIN: 8.40 |

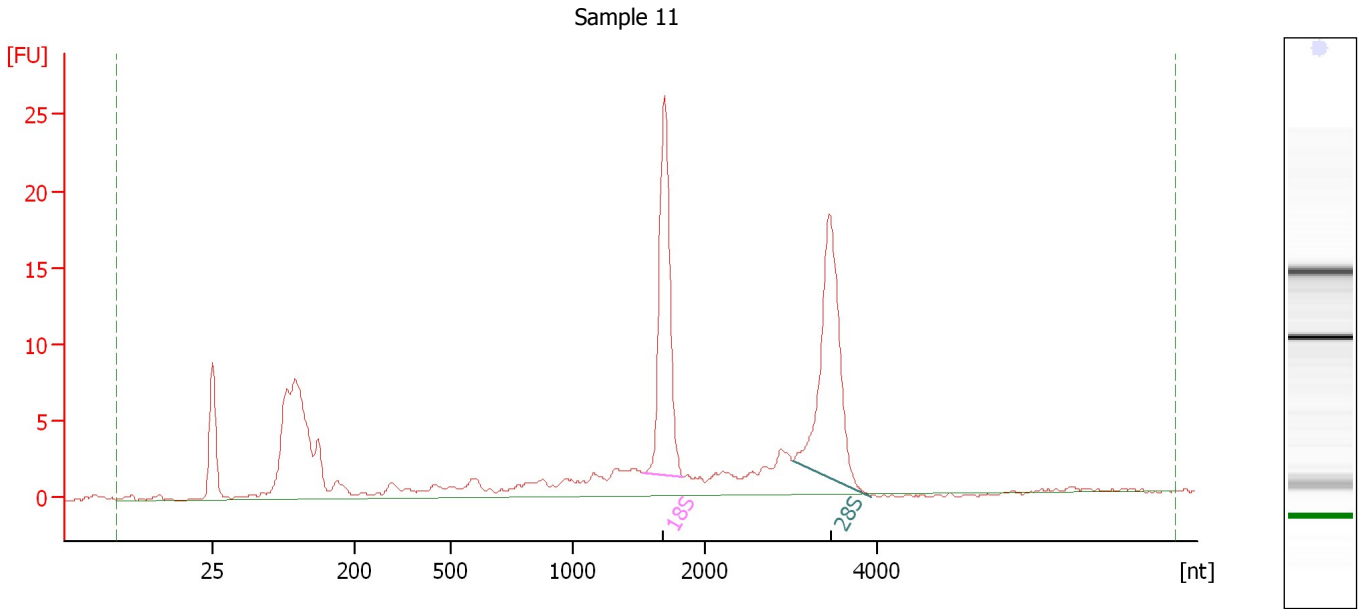
Fragment table for sample 10 : Sample 10

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,605 | 1,959 | 11.7 | 24.2 |
| 28S | 3,209 | 3,832 | 8.9 | 18.5 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

| | | | |
|-------------------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 168.6 | RNA Integrity Number (RIN): | 8.3 (B.02.08) |
| RNA Concentration: | 1,404 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 8.30 |

Fragment table for sample 11 : Sample 11

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,536 | 1,832 | 31.2 | 18.5 |
| 28S | 3,006 | 3,913 | 33.2 | 19.7 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2017-08-30\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 2:55:22 PM
Modified: 8/30/2017 3:18:18 PM

Gel Image

