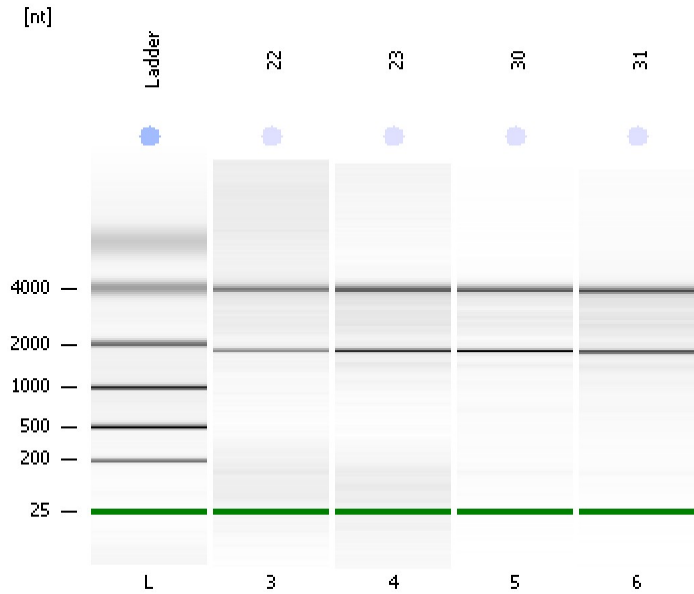


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
Modified: 12/1/2016 3:38:12 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 Nano Series II.xsy

Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
 Modified: 12/1/2016 3:38:12 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| 22 | | ✓ | RIN:10 | |
| 23 | | ✓ | RIN: 9.30 | |
| 30 | | ✓ | RIN:9 | |
| 31 | | ✓ | RIN: 8.40 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
Modified: 12/1/2016 3:38:12 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

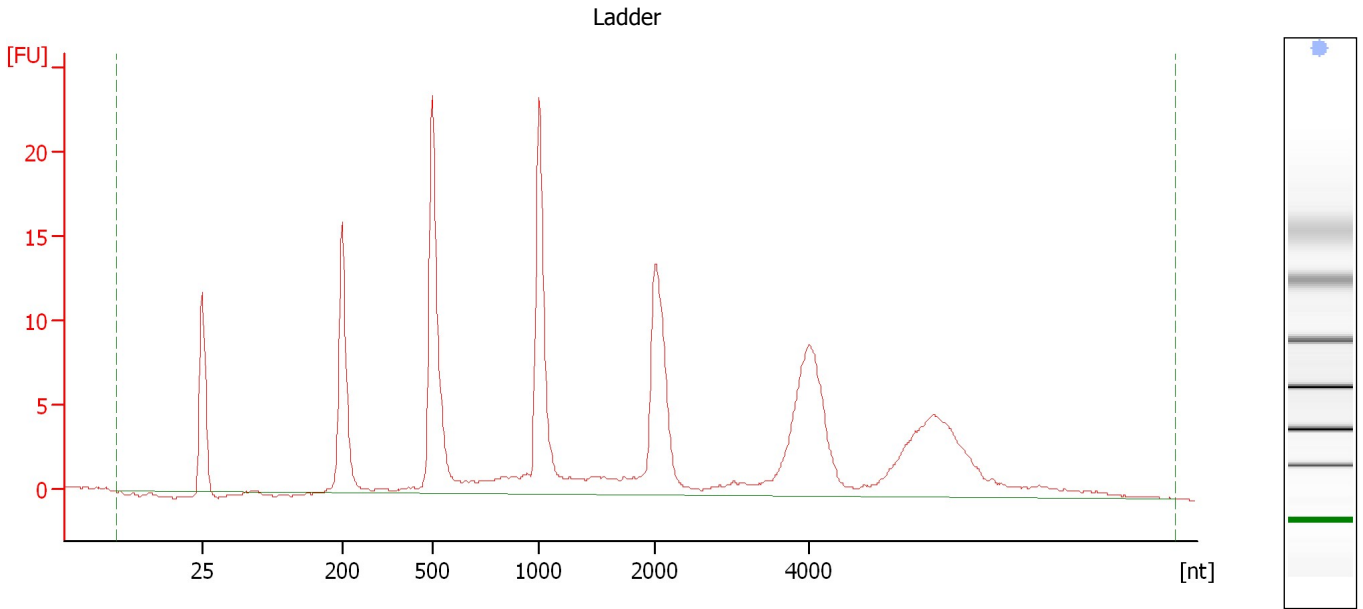
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
Modified: 12/1/2016 3:38:12 PM

Electropherogram Summary



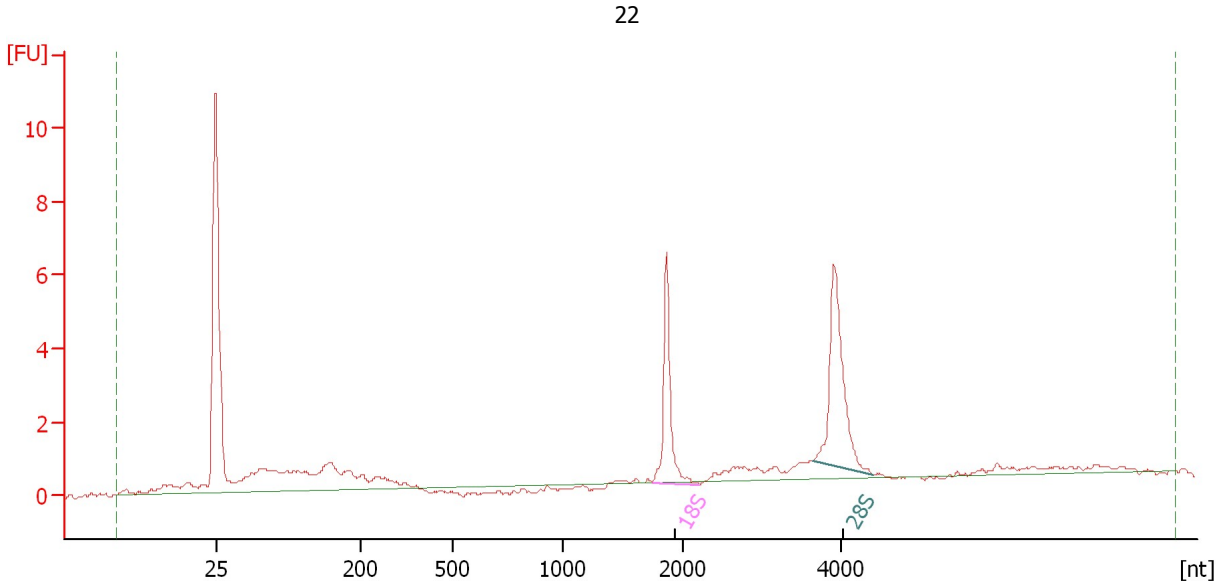
Overall Results for Ladder

| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 196.9 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
 Modified: 12/1/2016 3:38:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 22

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 35.0 | RNA Integrity Number (RIN): | 10 (B.02.08) |
| RNA Concentration: | 27 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.4 | Result Flagging Label: | RIN:10 |

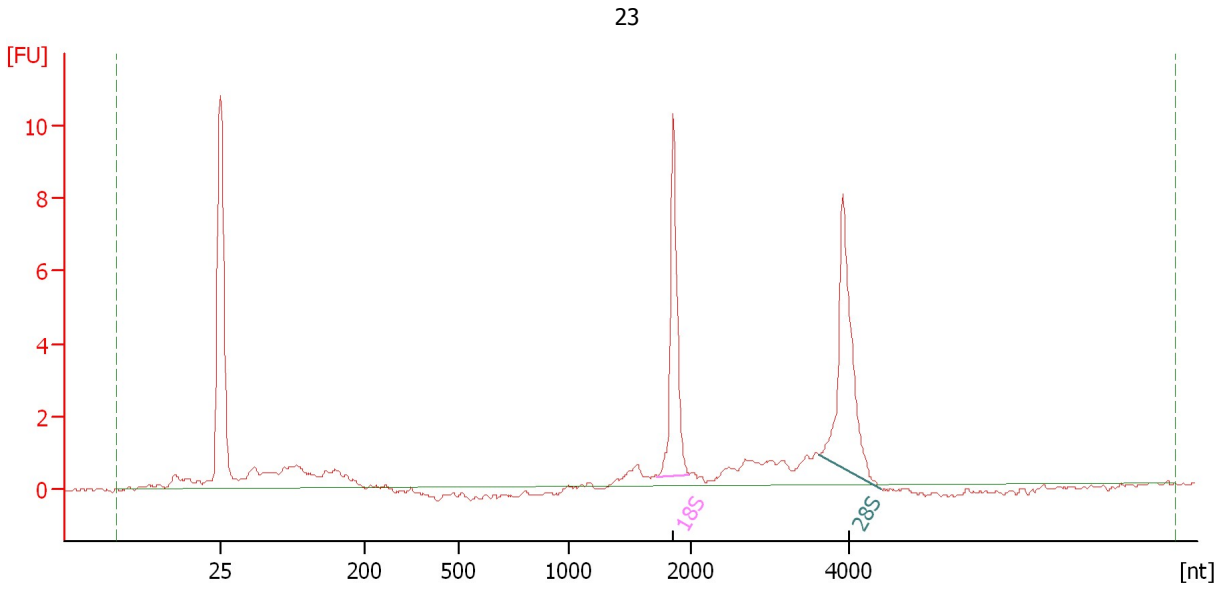
Fragment table for sample 3 : 22

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,752 | 2,219 | 5.3 | 15.0 |
| 28S | 3,652 | 4,409 | 7.4 | 21.2 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
 Modified: 12/1/2016 3:38:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 23

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 39.2 | RNA Integrity Number (RIN): | 9.3 (B.02.08) |
| RNA Concentration: | 30 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.3 | Result Flagging Label: | RIN: 9.30 |

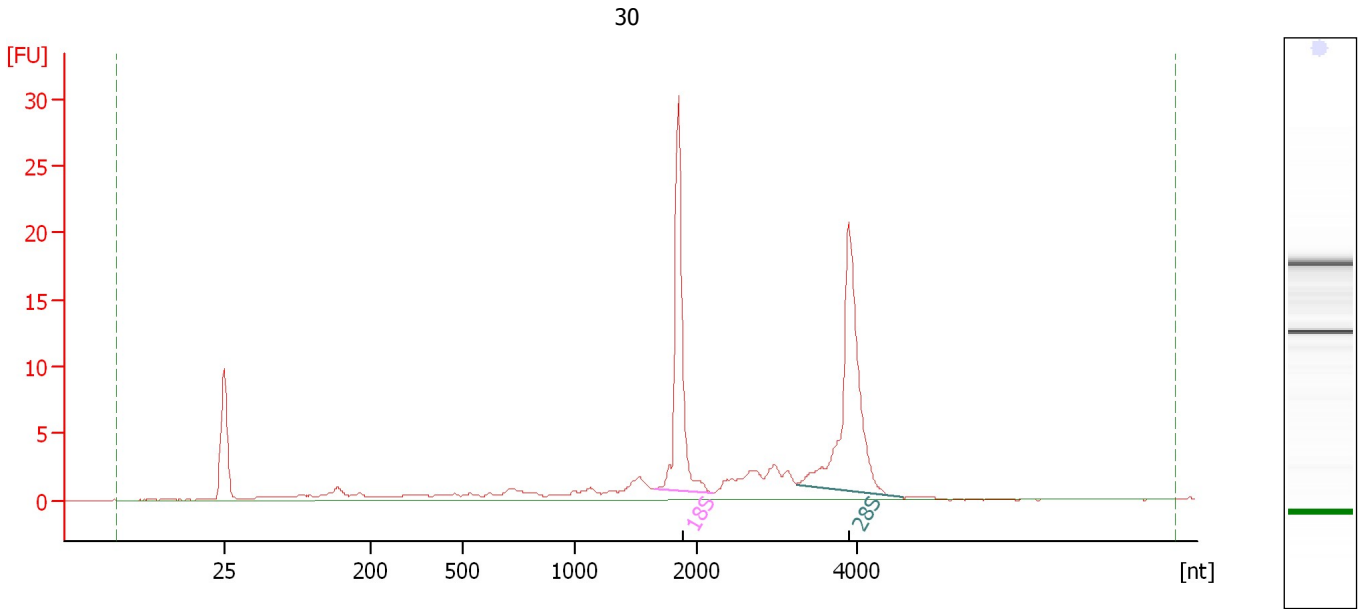
Fragment table for sample 4 : 23

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,731 | 1,997 | 7.8 | 19.8 |
| 28S | 3,617 | 4,394 | 10.1 | 25.7 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
 Modified: 12/1/2016 3:38:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 30

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 105.6 | RNA Integrity Number (RIN): | 9 (B.02.08) |
| RNA Concentration: | 80 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.3 | Result Flagging Label: | RIN:9 |

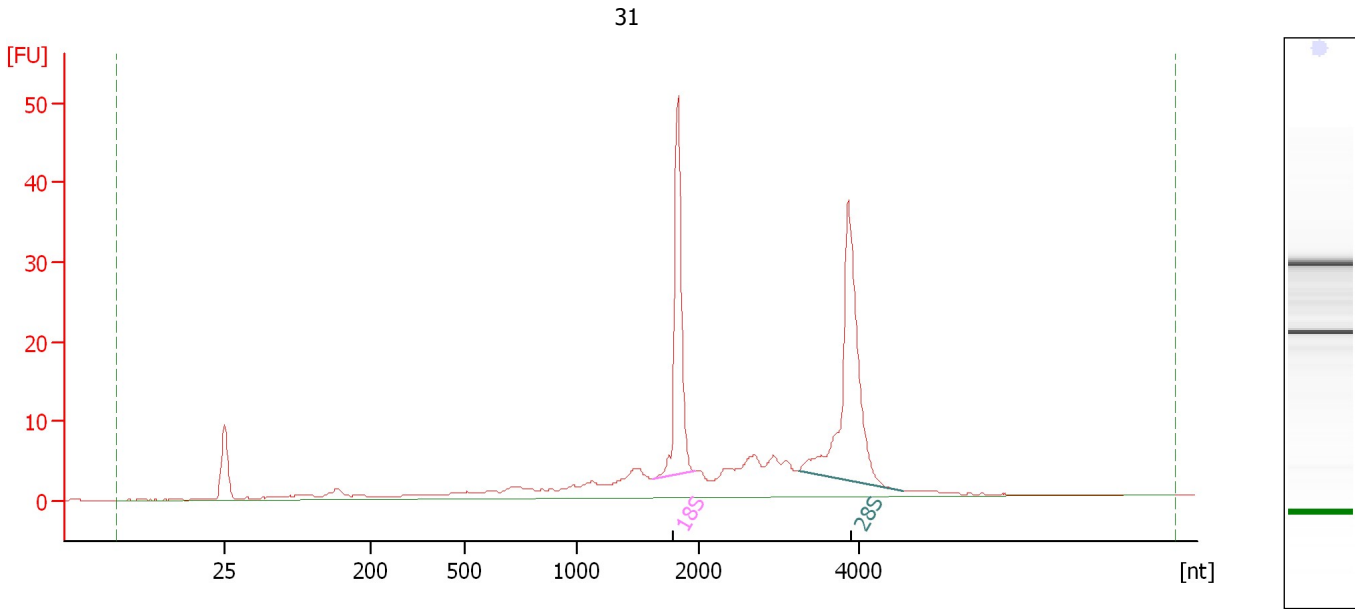
Fragment table for sample 5 : 30

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,665 | 2,212 | 24.6 | 23.3 |
| 28S | 3,251 | 4,570 | 32.1 | 30.3 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
 Modified: 12/1/2016 3:38:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 31

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 216.1 | RNA Integrity Number (RIN): | 8.4 (B.02.08) |
| RNA Concentration: | 165 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 8.40 |

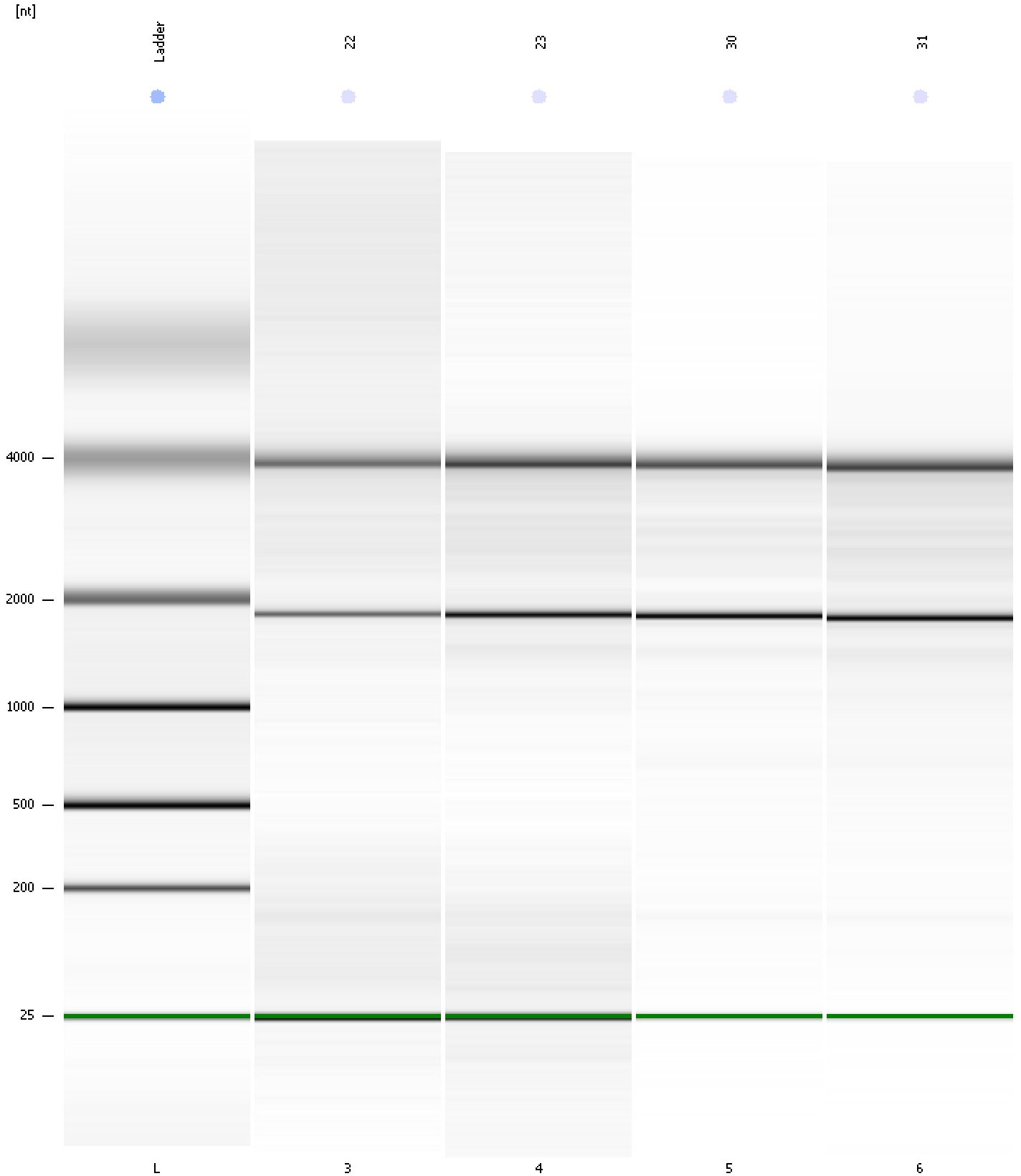
Fragment table for sample 6 : 31

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,631 | 1,965 | 37.6 | 17.4 |
| 28S | 3,250 | 4,553 | 55.6 | 25.7 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad

Created: 12/1/2016 3:20:01 PM
Modified: 12/1/2016 3:38:12 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 12/1/2016 3:20:01 PM
 Data Path: C:\...100 expert\data\2016-12-01\2016-12-01_004_Lopez_RNAQC_7.xad Modified: 12/1/2016 3:38:12 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 7) | | Instrument | Run | | 12/1/2016 3:35:37 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_004.xad) | | Instrument | Run | | 12/1/2016 3:20:07 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 12/1/2016 3:20:07 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 12/1/2016 3:20:07 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 12/1/2016 3:20:07 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 12/1/2016 3:20:07 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 12/1/2016 3:20:07 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 12/1/2016 3:20:07 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |