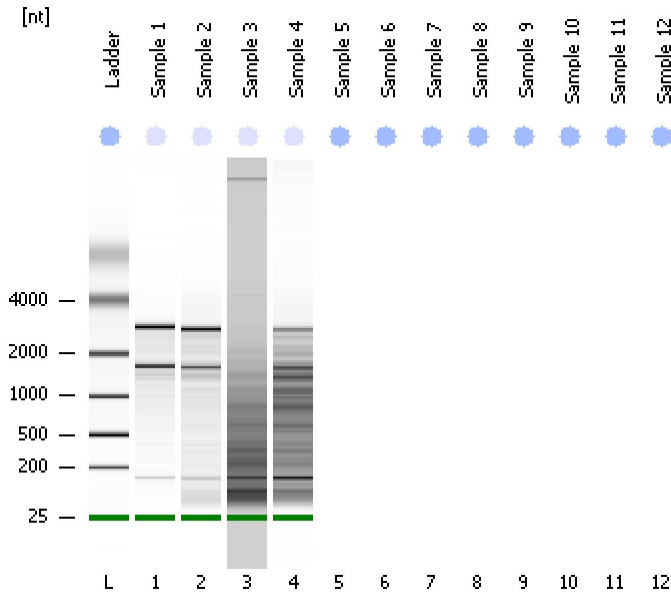


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
Modified: 4/7/2014 4:40:26 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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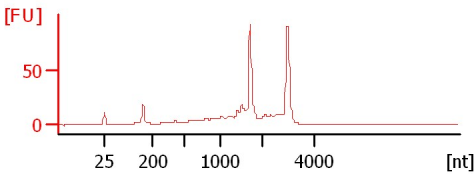
Chip Information:

Chip Lot #:

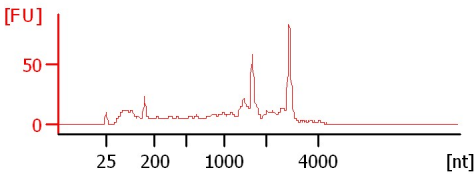
Reagent Kit Lot #:

Chip Comments:

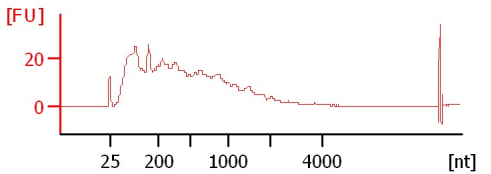
Sample 1
RIN: 7.10



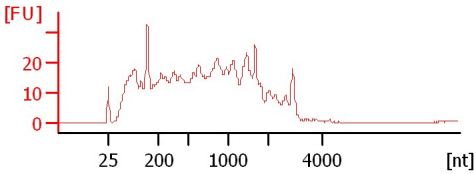
Sample 2
RIN: 6.30



Sample 3
RIN: 2.30



Sample 4
RIN: 3.10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
 Modified: 4/7/2014 4:40:26 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| Sample 1 | | ✓ | RIN: 7.10 | |
| Sample 2 | | ✓ | RIN: 6.30 | |
| Sample 3 | | ✓ | RIN: 2.30 | |
| Sample 4 | | ✓ | RIN: 3.10 | |
| Sample 5 | | | | |
| Sample 6 | | | | |
| Sample 7 | | | | |
| Sample 8 | | | | |
| Sample 9 | | | | |
| Sample 10 | | | | |
| Sample 11 | | | | |
| Sample 12 | | | | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
Modified: 4/7/2014 4:40:26 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

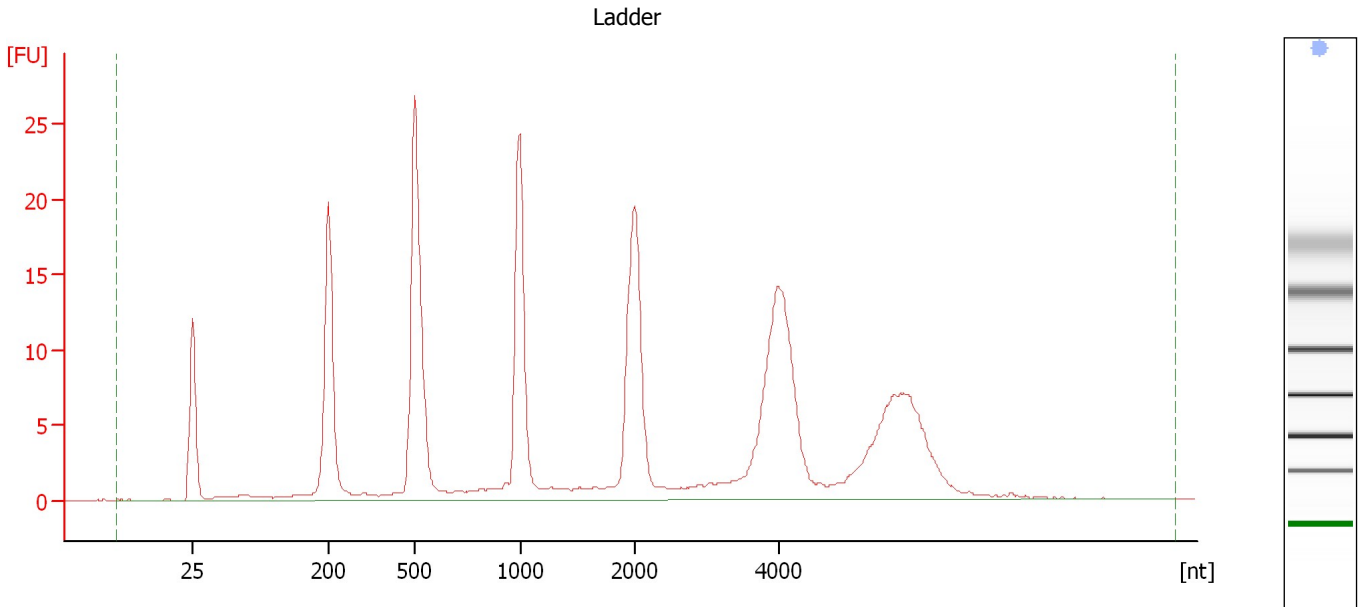
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
Modified: 4/7/2014 4:40:26 PM

Electropherogram Summary



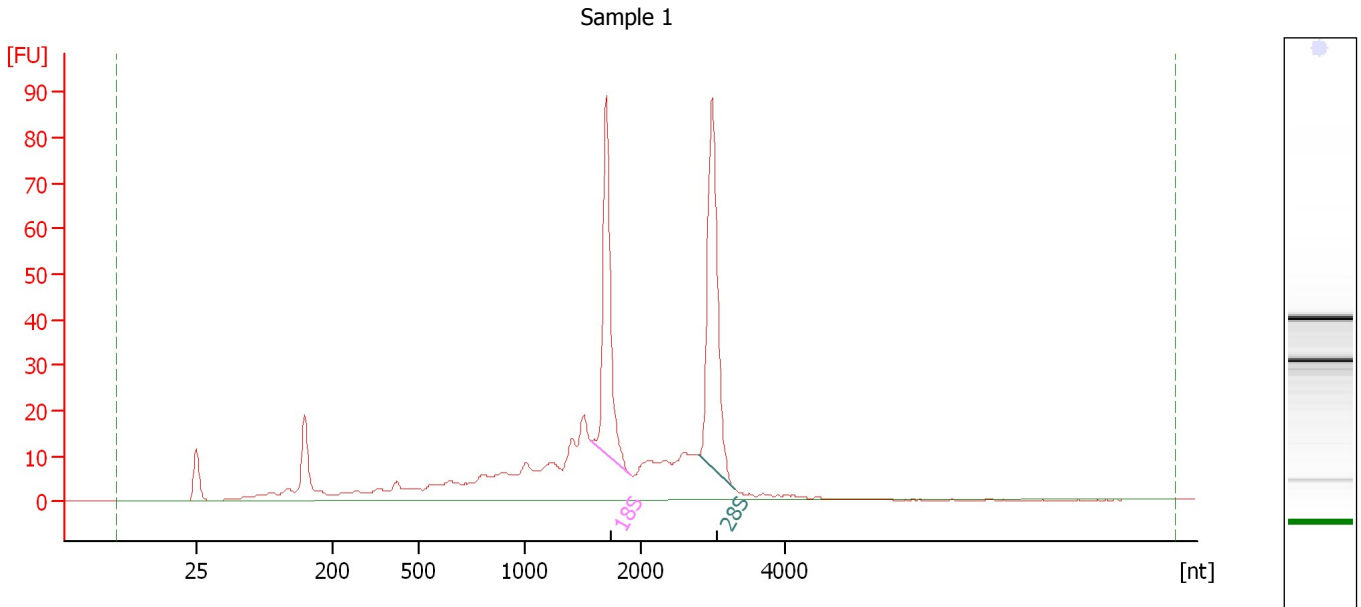
Overall Results for Ladder

| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 254.5 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
Modified: 4/7/2014 4:40:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 514.1 | RNA Integrity Number (RIN): | 7.1 (B.02.08) |
| RNA Concentration: | 303 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.2 | Result Flagging Label: | RIN: 7.10 |

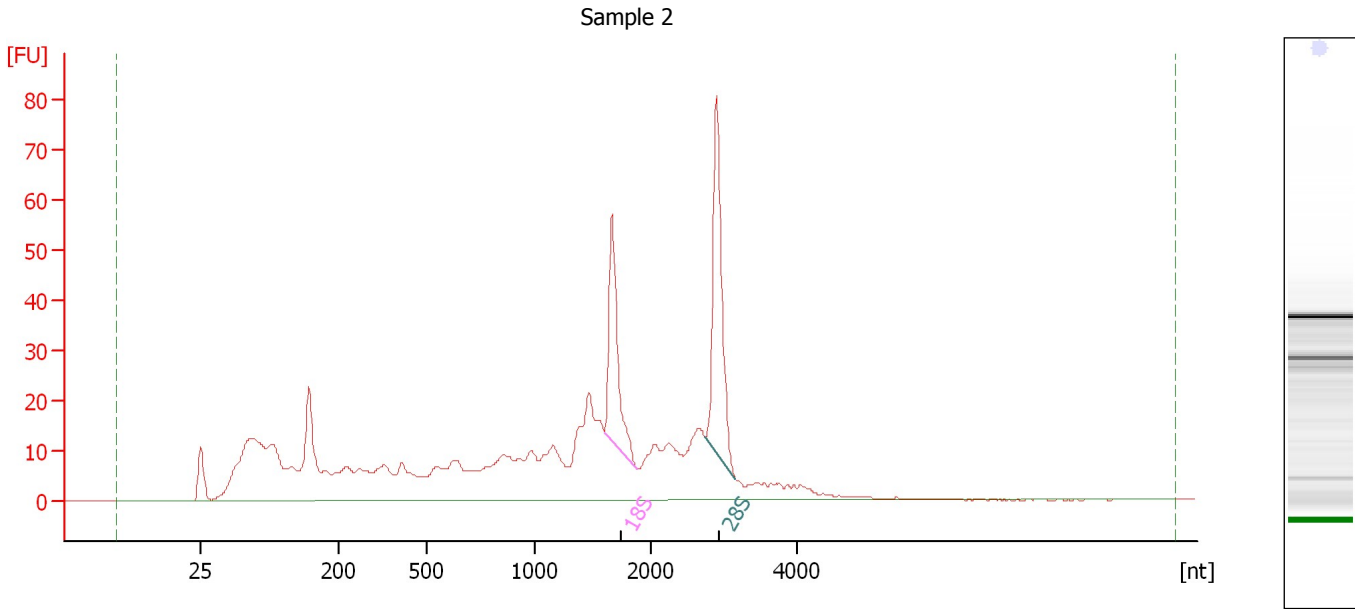
Fragment table for sample 1 : Sample 1

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,575 | 1,910 | 79.3 | 15.4 |
| 28S | 2,814 | 3,314 | 91.6 | 17.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
 Modified: 4/7/2014 4:40:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 719.0 | RNA Integrity Number (RIN): | 6.3 (B.02.08) |
| RNA Concentration: | 424 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 6.30 |

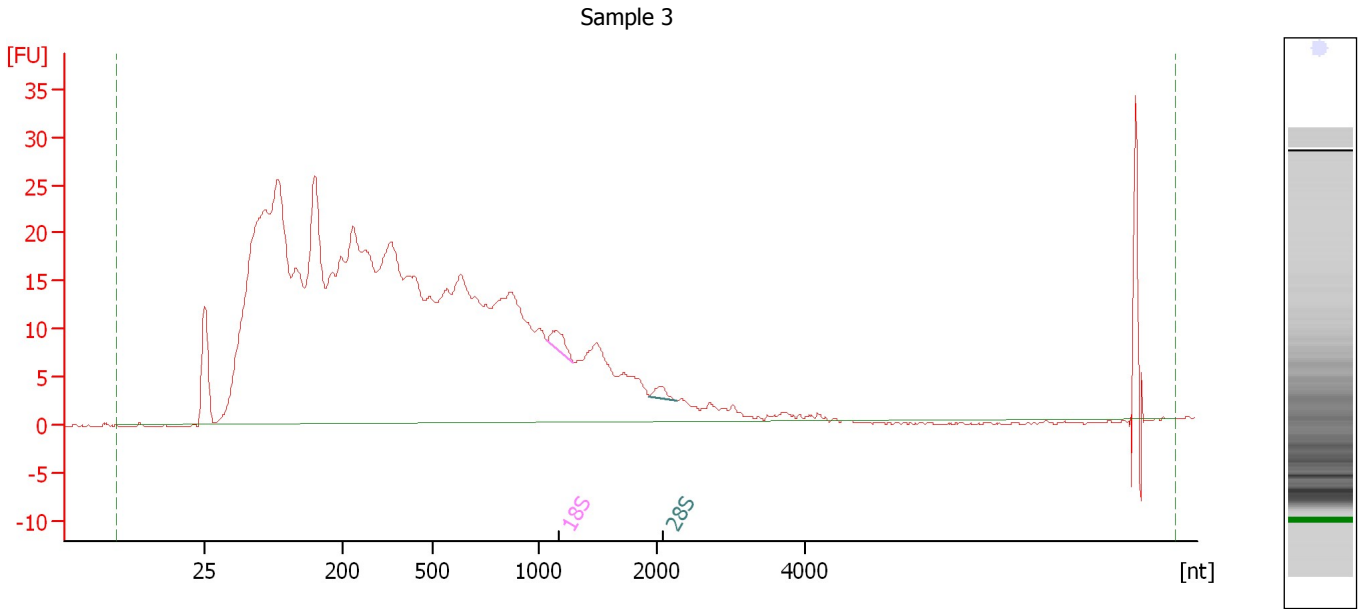
Fragment table for sample 2 : Sample 2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,603 | 1,879 | 47.9 | 6.7 |
| 28S | 2,754 | 3,162 | 72.1 | 10.0 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
 Modified: 4/7/2014 4:40:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 843.8 | RNA Integrity Number (RIN): | 2.3 (B.02.08) |
| RNA Concentration: | 497 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.5 | Result Flagging Label: | RIN: 2.30 |

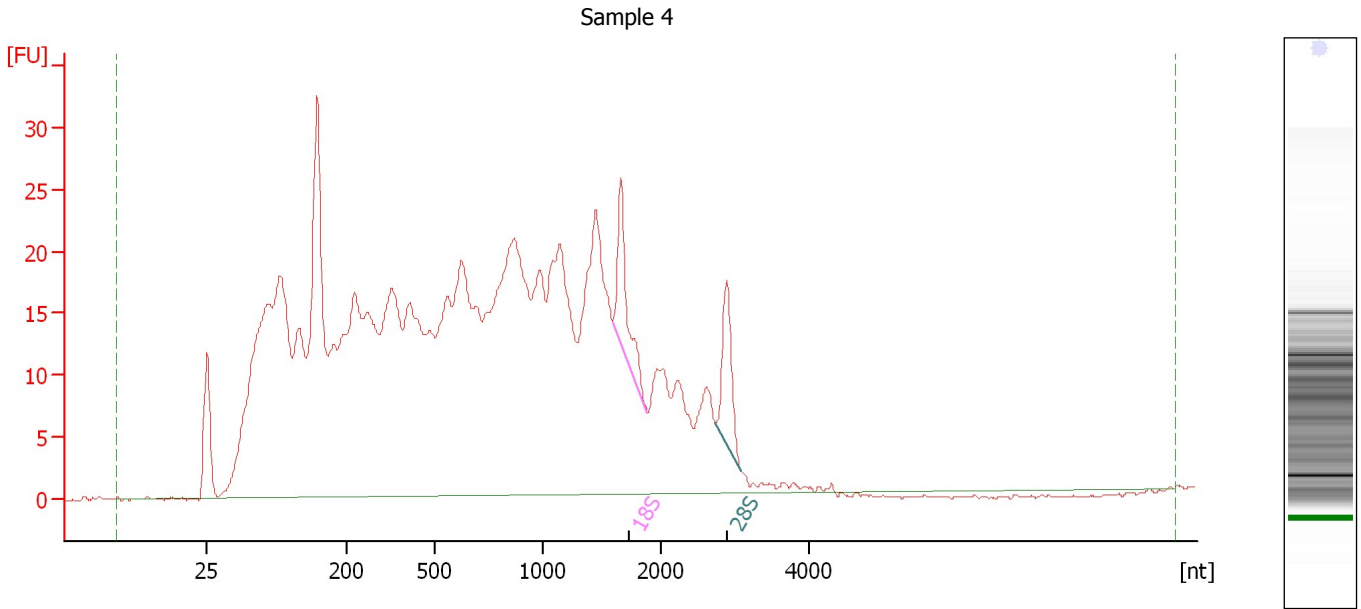
Fragment table for sample 3 : Sample 3

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,070 | 1,289 | 3.4 | 0.4 |
| 28S | 1,937 | 2,277 | 1.7 | 0.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
Modified: 4/7/2014 4:40:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 943.9 | RNA Integrity Number (RIN): | 3.1 (B.02.08) |
| RNA Concentration: | 556 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.9 | Result Flagging Label: | RIN: 3.10 |

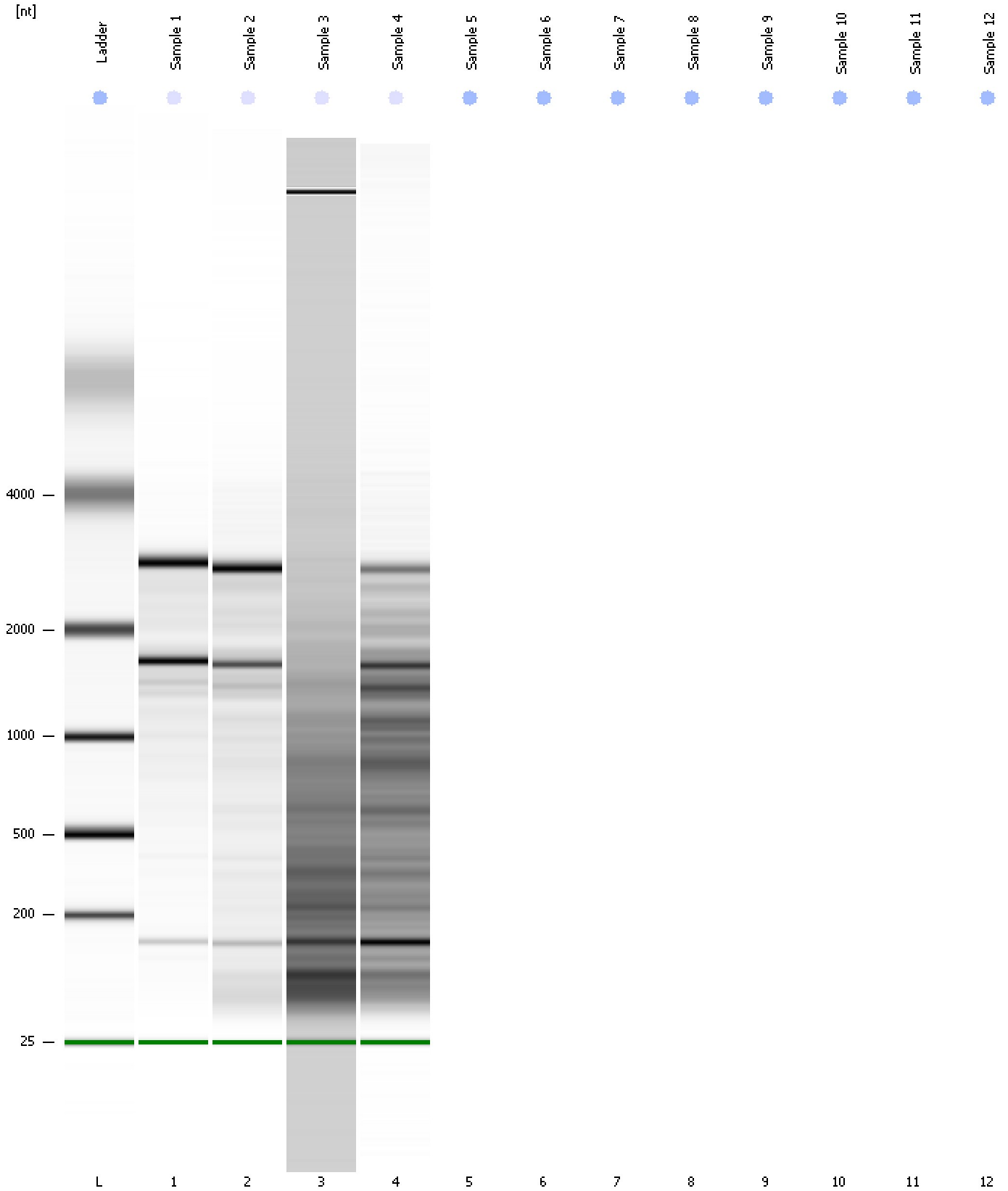
Fragment table for sample 4 : Sample 4

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,594 | 1,885 | 15.4 | 1.6 |
| 28S | 2,739 | 3,085 | 13.2 | 1.4 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
Modified: 4/7/2014 4:40:26 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad

Created: 4/7/2014 4:27:31 PM
Modified: 4/7/2014 4:40:26 PM

Invalid Samples

- Sample 5 has not been run, no results available.
- Sample 6 has not been run, no results available.
- Sample 7 has not been run, no results available.
- Sample 8 has not been run, no results available.
- Sample 9 has not been run, no results available.
- Sample 10 has not been run, no results available.
- Sample 11 has not been run, no results available.
- Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano Created: 4/7/2014 4:27:31 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad Modified: 4/7/2014 4:40:26 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|------------------------|--|----------|----------|
| Run ended on port 1 (Number of wells acquired: 5) | | Instrument | Run | | 4/7/2014 4:40:24 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-07\2014-04-07_002.xad) | | Instrument | Run | | 4/7/2014 4:27:37 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/7/2014 4:27:37 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/7/2014 4:27:37 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/7/2014 4:27:37 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/7/2014 4:27:37 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/7/2014 4:27:37 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/7/2014 4:27:37 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |