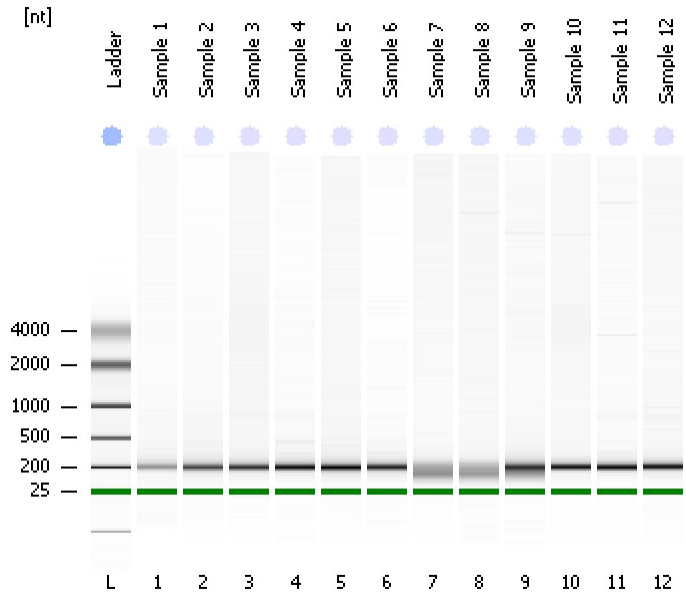


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electrophoresis File Run Summary



Instrument Information:

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

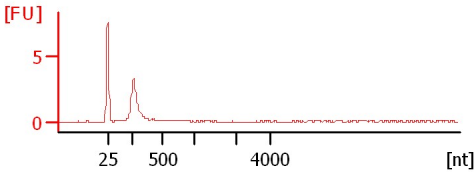
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

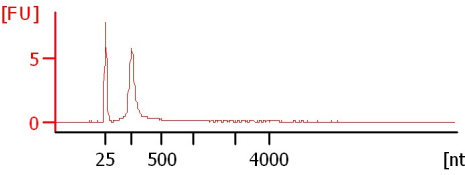
Chip Information:

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

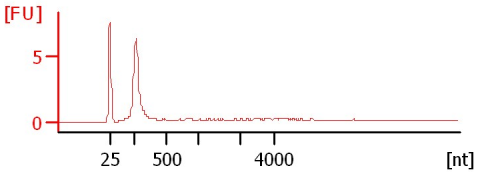
Sample 1
RIN: 2.50



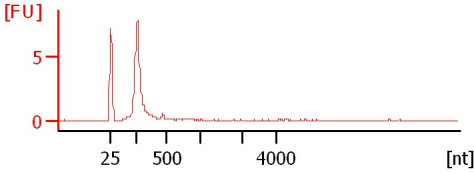
Sample 2
RIN: 2.50



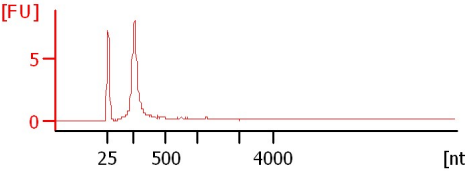
Sample 3
RIN: 2.50



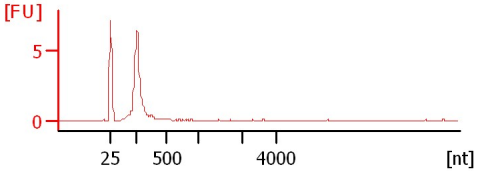
Sample 4
RIN: 2.60



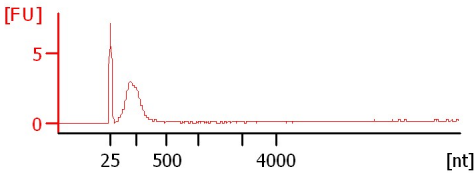
Sample 5
RIN: 2.50



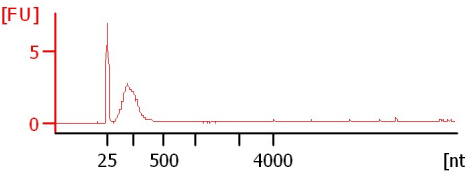
Sample 6
RIN: 2.60



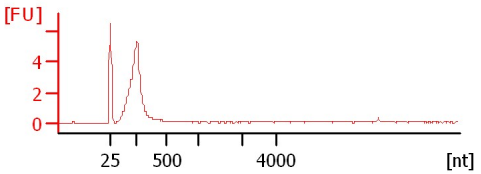
Sample 7
RIN: 2.60



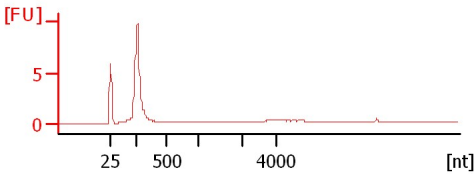
Sample 8
RIN: 2.50



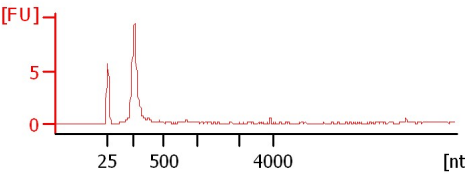
Sample 9
RIN: 2.60



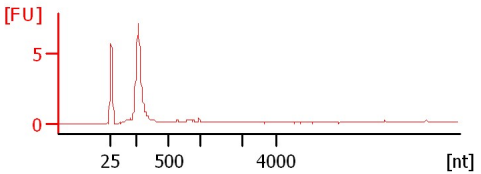
Sample 10
RIN: 2.50



Sample 11
RIN: 2.60



Sample 12
RIN: 2.50



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| Sample 1 | | ✓ | RIN: 2.50 | |
| Sample 2 | | ✓ | RIN: 2.50 | |
| Sample 3 | | ✓ | RIN: 2.50 | |
| Sample 4 | | ✓ | RIN: 2.60 | |
| Sample 5 | | ✓ | RIN: 2.50 | |
| Sample 6 | | ✓ | RIN: 2.60 | |
| Sample 7 | | ✓ | RIN: 2.60 | |
| Sample 8 | | ✓ | RIN: 2.50 | |
| Sample 9 | | ✓ | RIN: 2.60 | |
| Sample 10 | | ✓ | RIN: 2.50 | |
| Sample 11 | | ✓ | RIN: 2.60 | |
| Sample 12 | | ✓ | RIN: 2.50 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 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/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 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

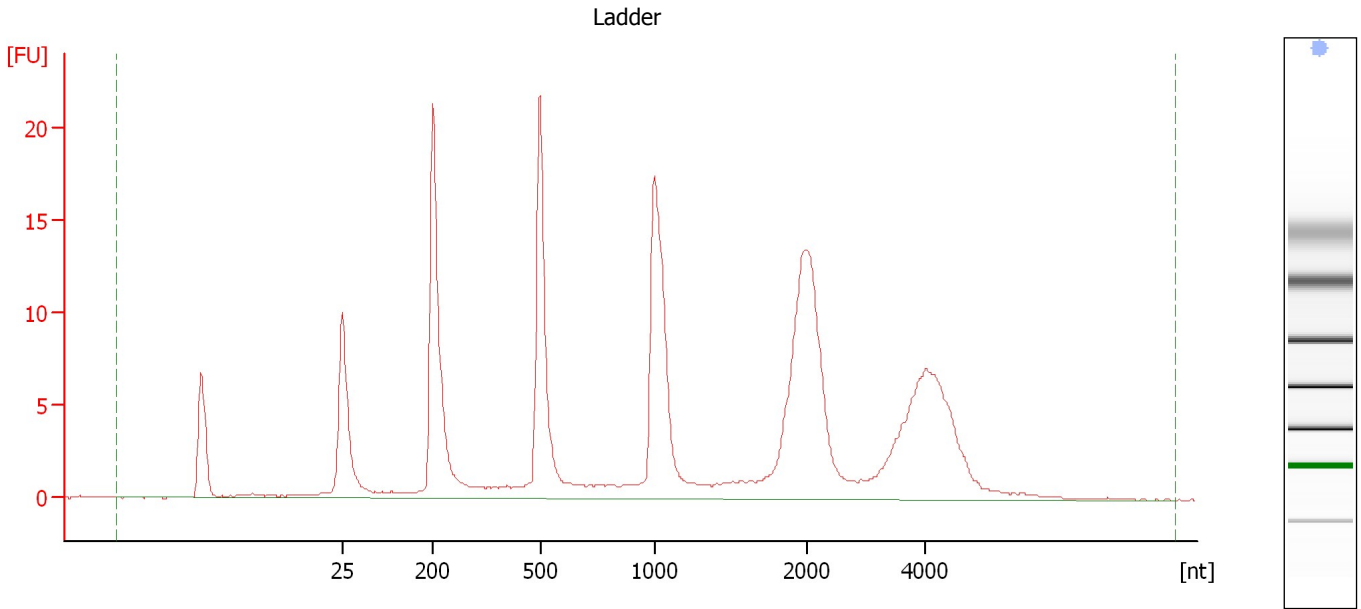
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary



Overall Results for Ladder

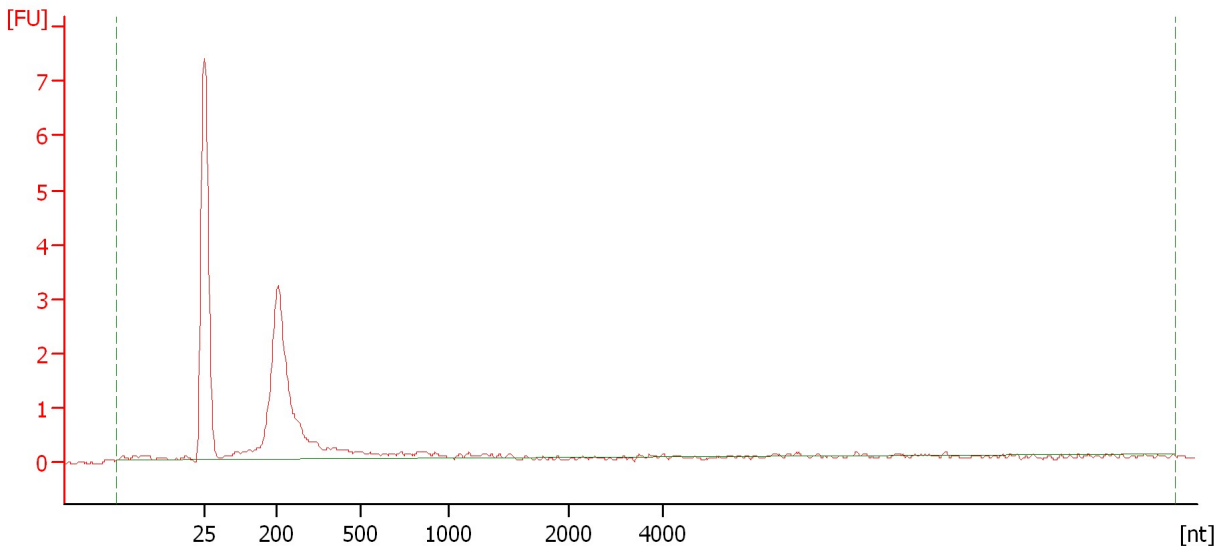
| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 207.9 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 1



Overall Results for sample 1 : Sample 1

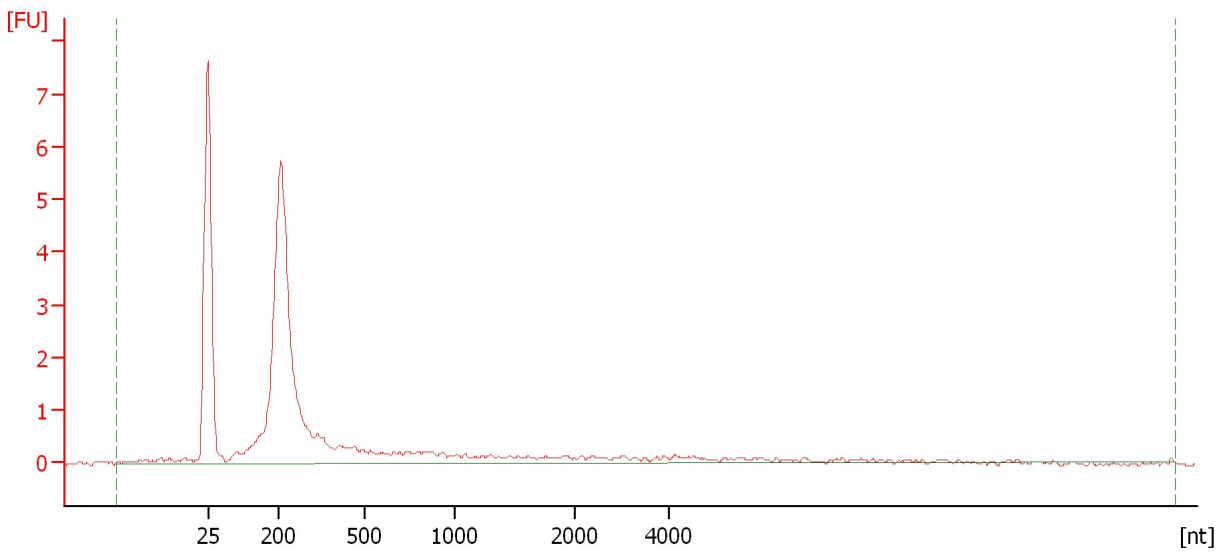
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 16.4 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 12 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.50 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 2



Overall Results for sample 2 : Sample 2

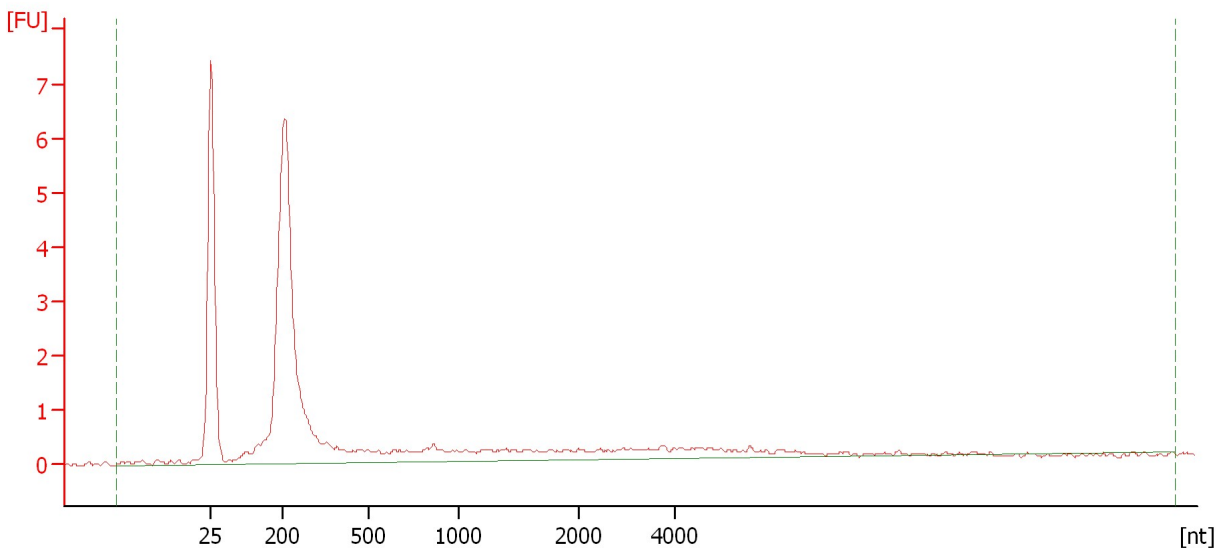
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 30.9 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 22 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.50 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 3 : Sample 3

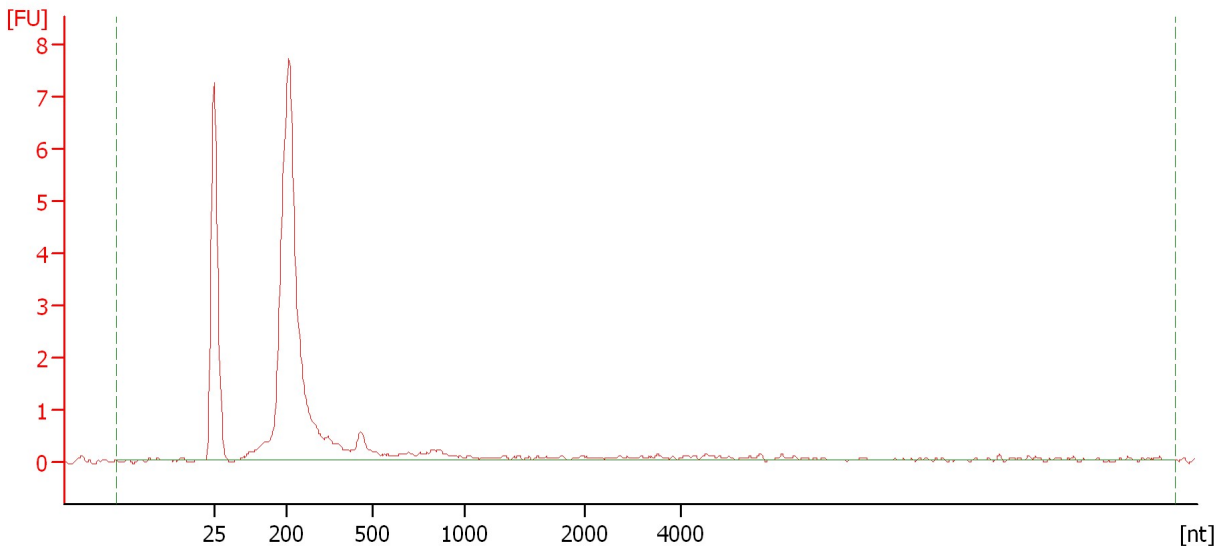
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 33.1 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 24 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.50 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

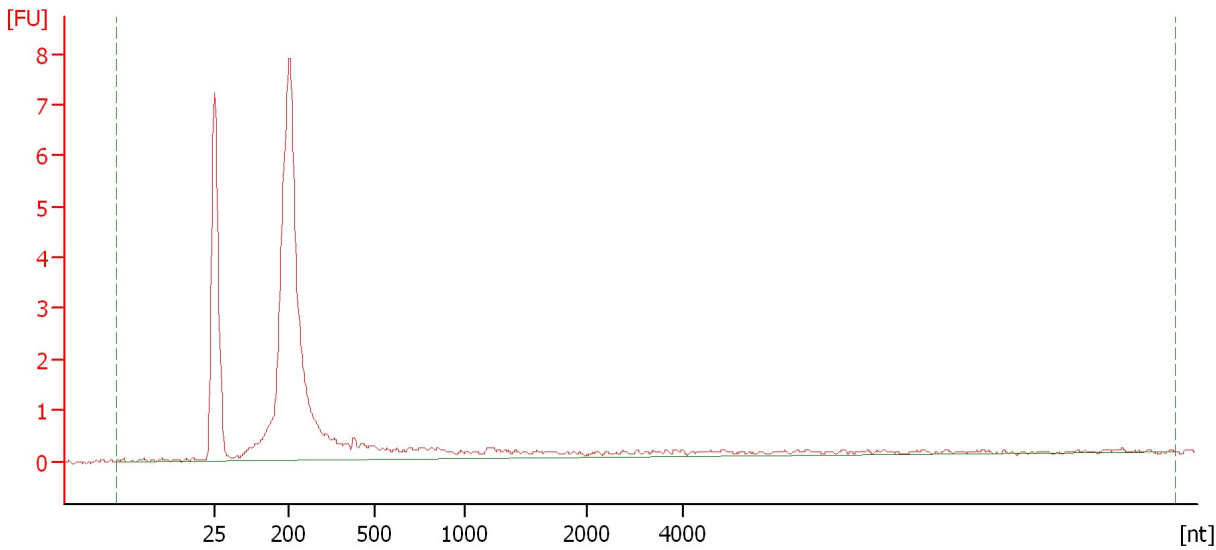
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 30.9 | RNA Integrity Number (RIN): | 2.6 (B.02.08) |
| RNA Concentration: | 22 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.60 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

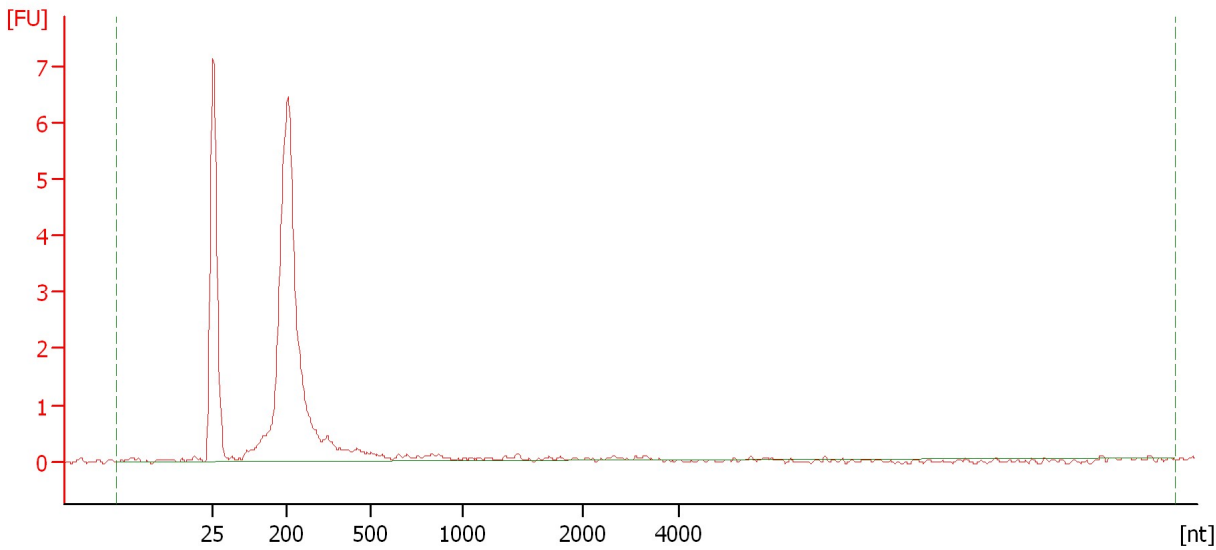
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 35.3 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 25 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.50 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 6



Overall Results for sample 6 : Sample 6

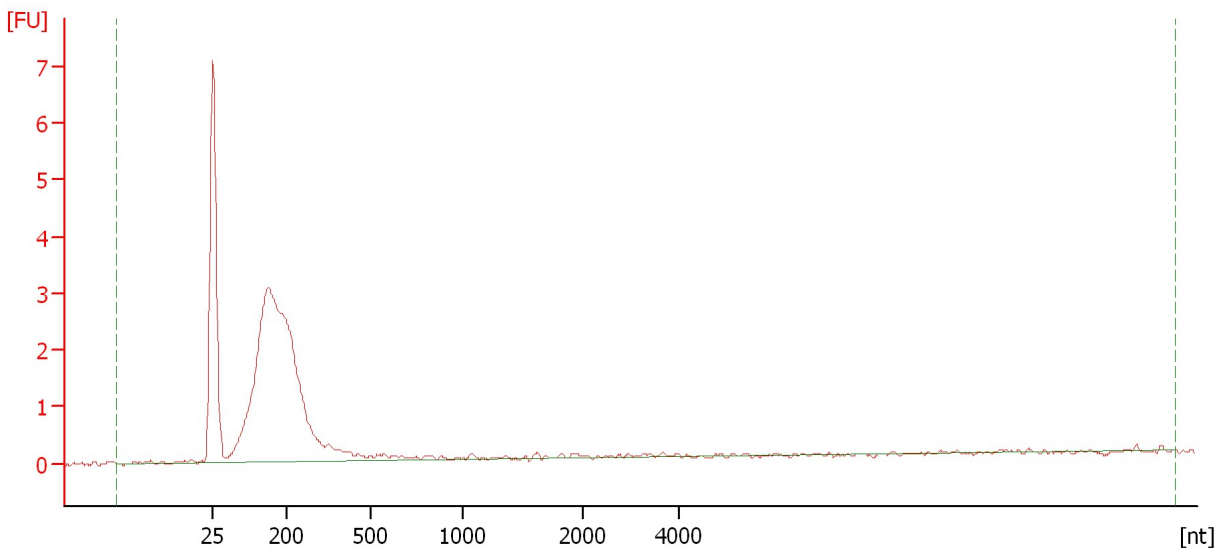
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 26.2 | RNA Integrity Number (RIN): | 2.6 (B.02.08) |
| RNA Concentration: | 19 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.60 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

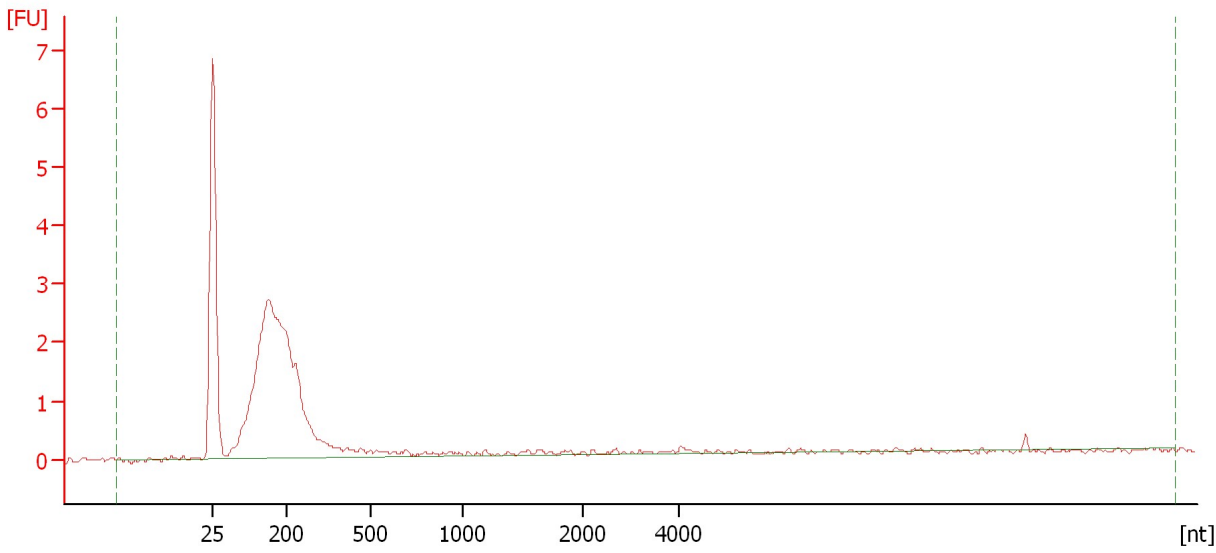
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 27.1 | RNA Integrity Number (RIN): | 2.6 (B.02.08) |
| RNA Concentration: | 20 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.60 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

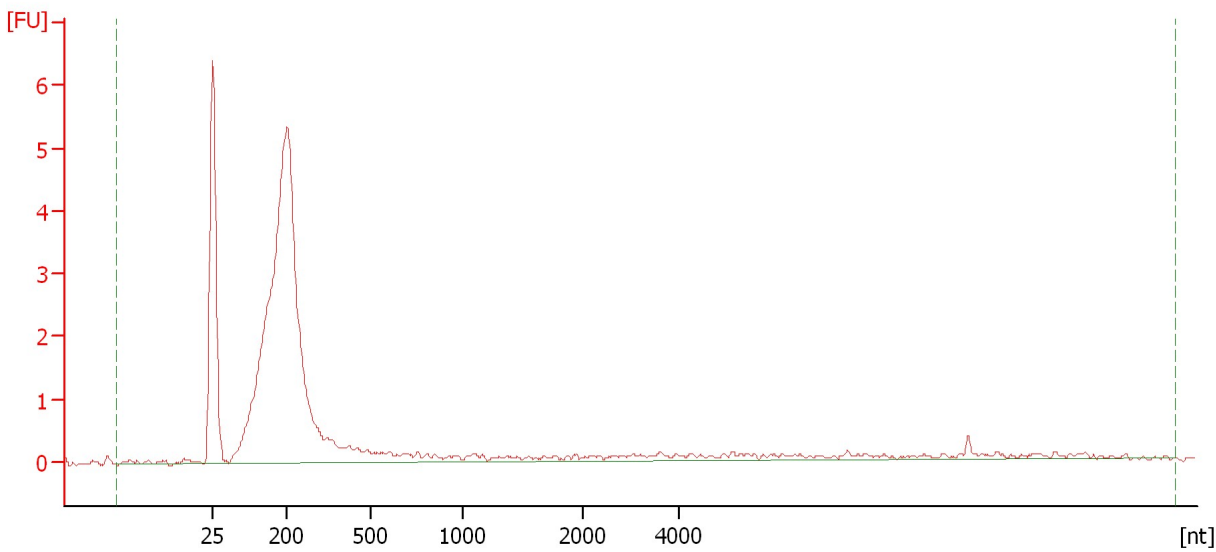
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 25.5 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 18 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.50 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

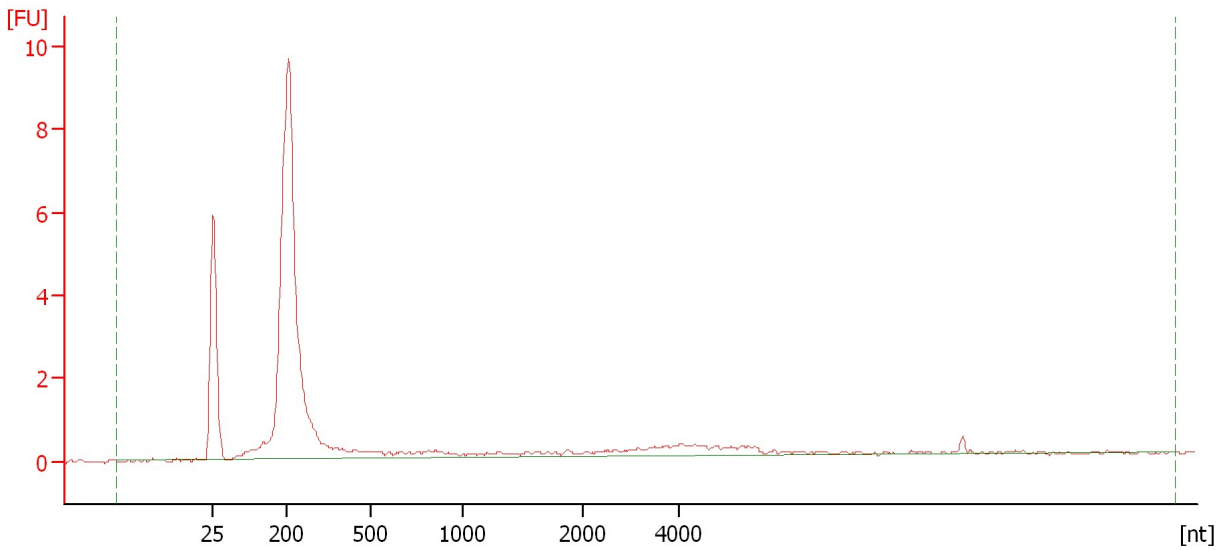
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 39.7 | RNA Integrity Number (RIN): | 2.6 (B.02.08) |
| RNA Concentration: | 29 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.60 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

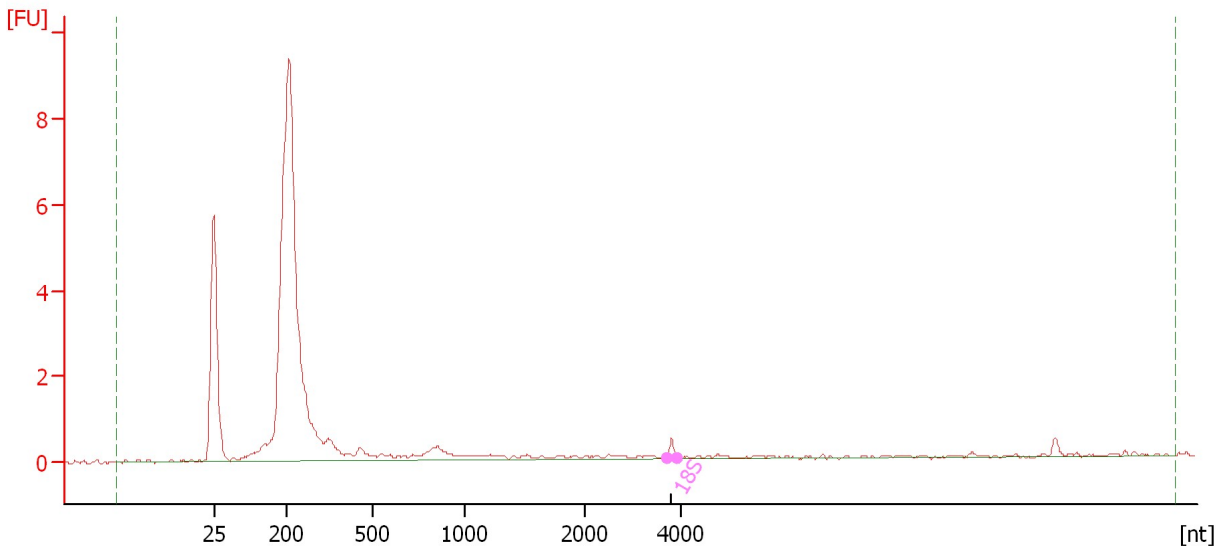
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 38.3 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 28 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.50 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 36.2 | RNA Integrity Number (RIN): | 2.6 (B.02.08) |
| RNA Concentration: | 26 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.60 |

Fragment table for sample 11 : Sample 11

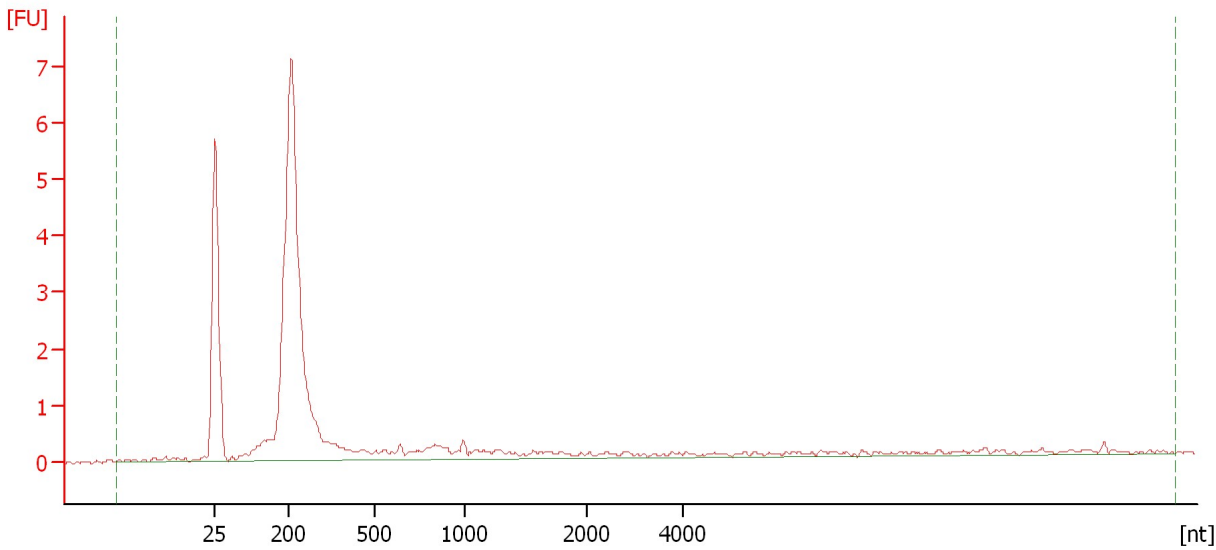
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,710 | 3,911 | 0.2 | 0.6 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Electropherogram Summary Continued ...

Sample 12



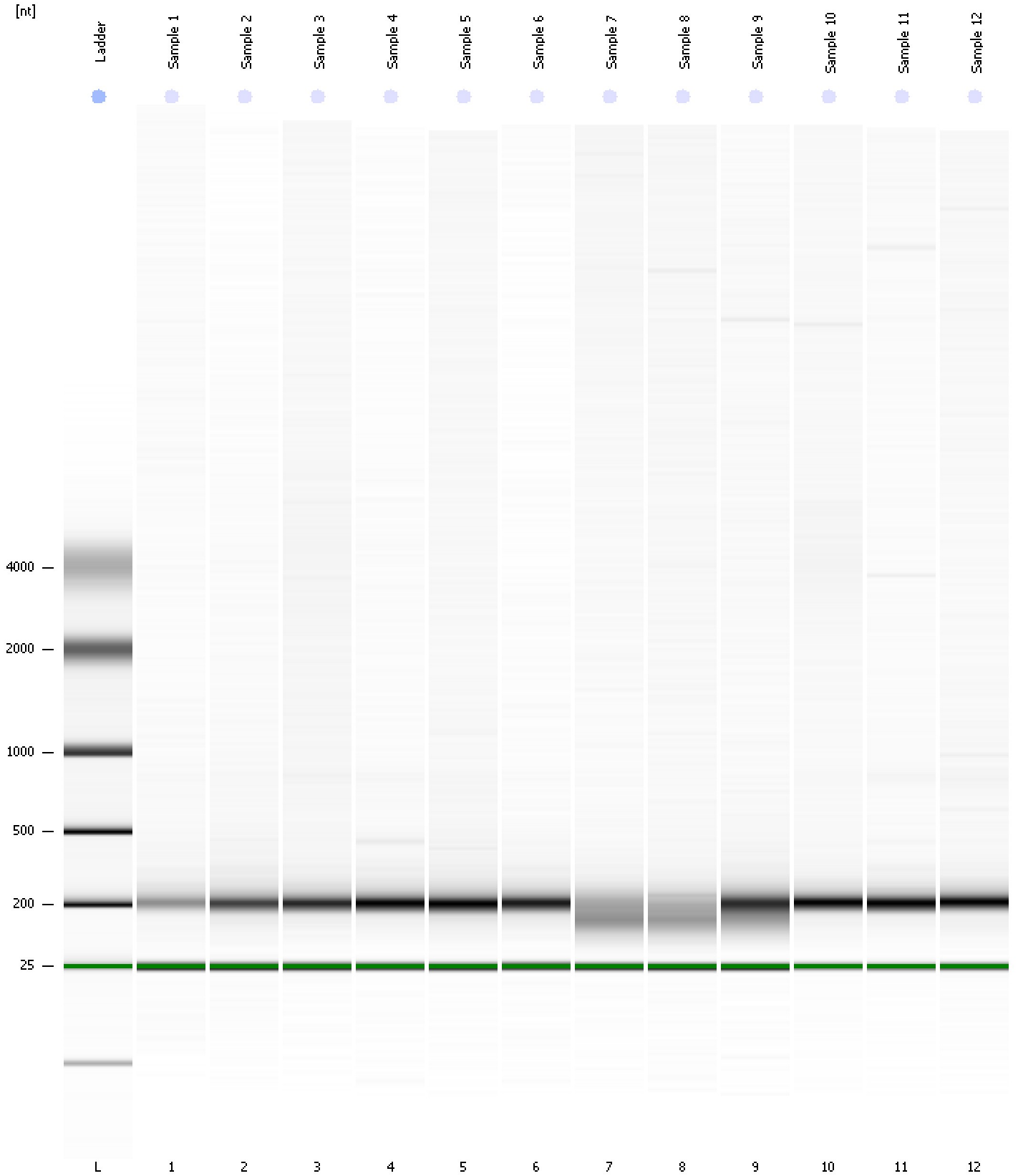
Overall Results for sample 12 : Sample 12

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 31.0 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 22 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.50 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Gel Image

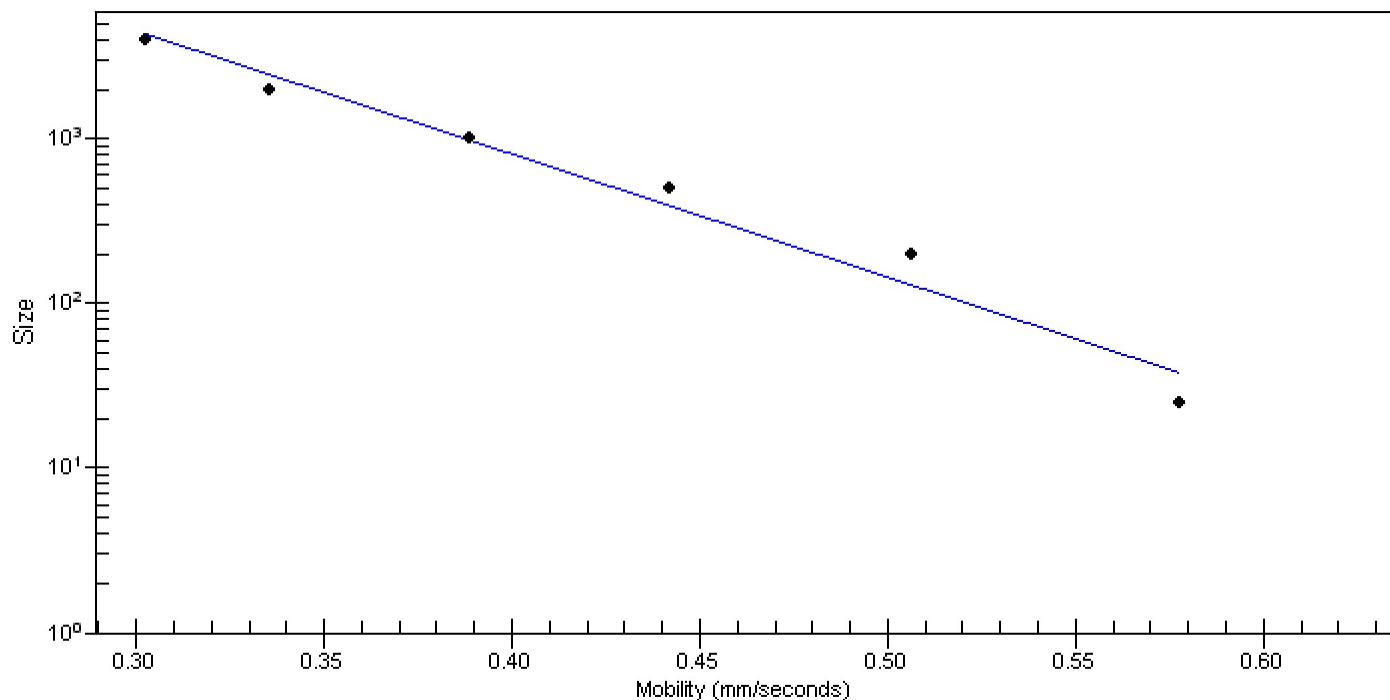


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
Modified: 7/9/2014 12:44:53 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad

Created: 7/9/2014 12:21:04 PM
 Modified: 7/9/2014 12:44:53 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 13) | | Instrument | Run | | 7/9/2014 12:44:52 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_003.xad) | | Instrument | Run | | 7/9/2014 12:21:10 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 7/9/2014 12:21:10 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 7/9/2014 12:21:10 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 7/9/2014 12:21:10 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 7/9/2014 12:21:10 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 7/9/2014 12:21:10 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 7/9/2014 12:21:10 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |