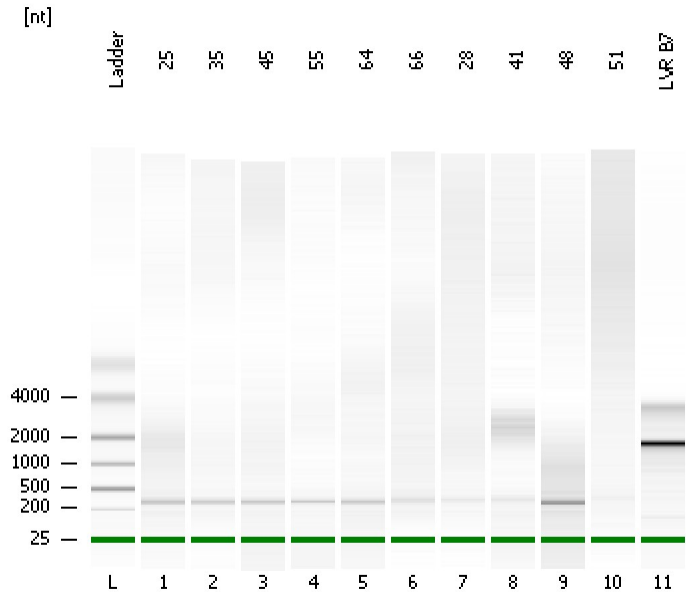


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

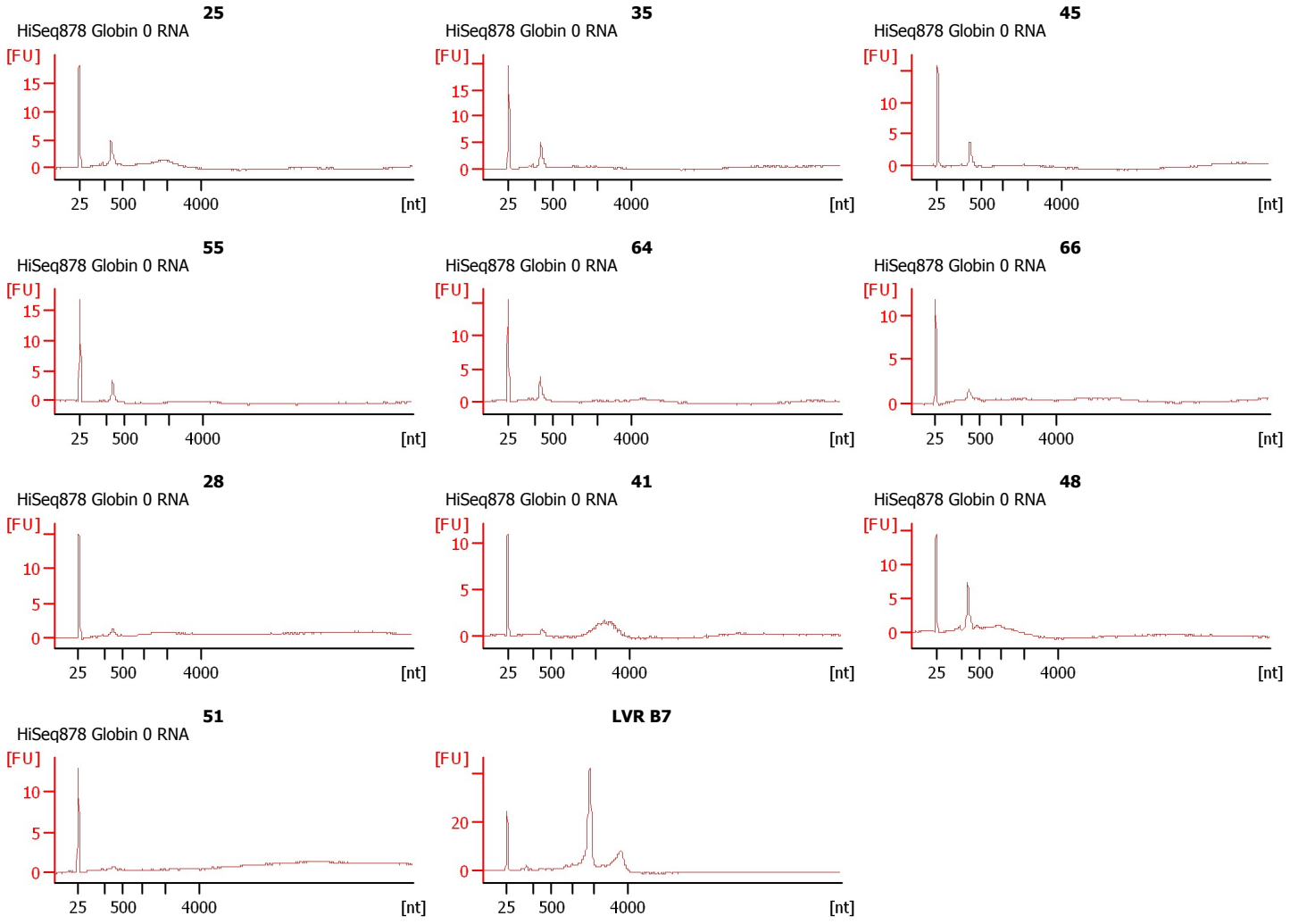
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

Assay Class: mRNA Pico
Version: 2.6
Assay Comments: mRNA Analysis pg sensitivity

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Chip Information:

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



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|-----------------------|--------|--------------|--------------|
| 25 | HiSeq878 Globin 0 RNA | ✓ | | |
| 35 | HiSeq878 Globin 0 RNA | ✓ | | |
| 45 | HiSeq878 Globin 0 RNA | ✓ | | |
| 55 | HiSeq878 Globin 0 RNA | ✓ | | |
| 64 | HiSeq878 Globin 0 RNA | ✓ | | |
| 66 | HiSeq878 Globin 0 RNA | ✓ | | |
| 28 | HiSeq878 Globin 0 RNA | ✓ | | |
| 41 | HiSeq878 Globin 0 RNA | ✓ | | |
| 48 | HiSeq878 Globin 0 RNA | ✓ | | |
| 51 | HiSeq878 Globin 0 RNA | ✓ | | |
| LVR B7 | | ✓ | | |
| Ladder | | ✓ | | |

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12

Minimum Visible Range [s] : 14

Maximum Visible Range [s] : 85

Start Analysis Time Range [s] : 15

End Analysis Time Range [s] : 84

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] : 15

Integration End Time [s] : 84

Slope Threshold : 0.2

Height Threshold [FU] : 0.5

Area Threshold : 0.1

Width Threshold [s] : 0.2

Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

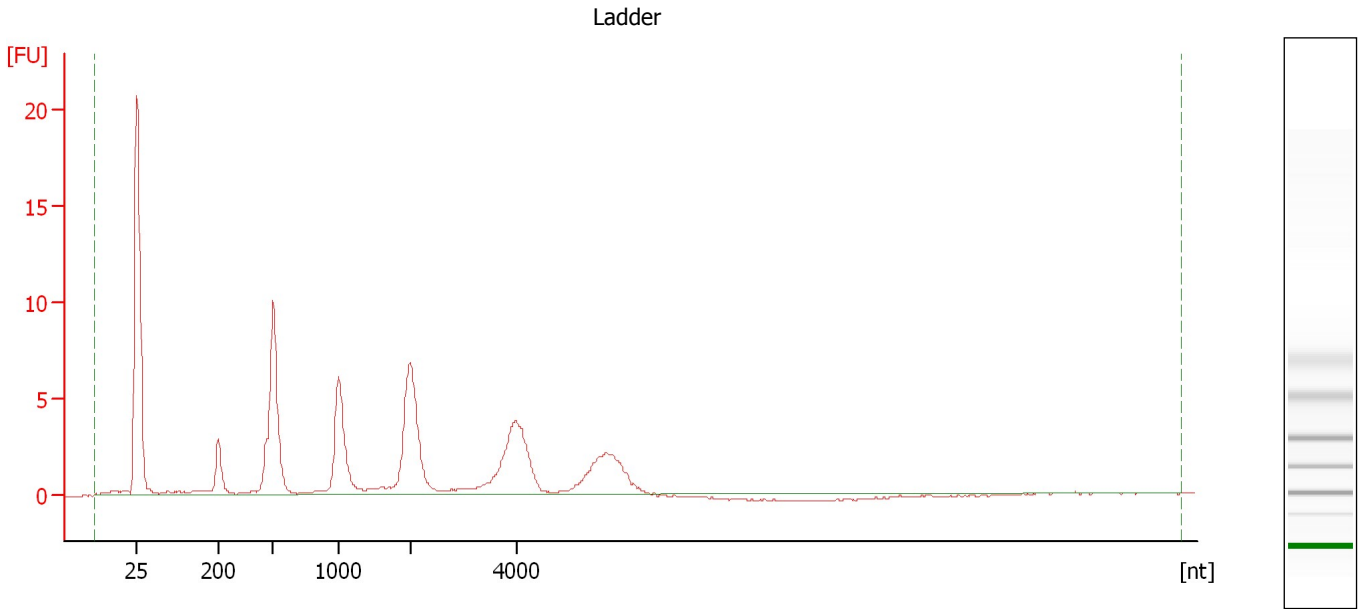
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary



Overall Results for Ladder

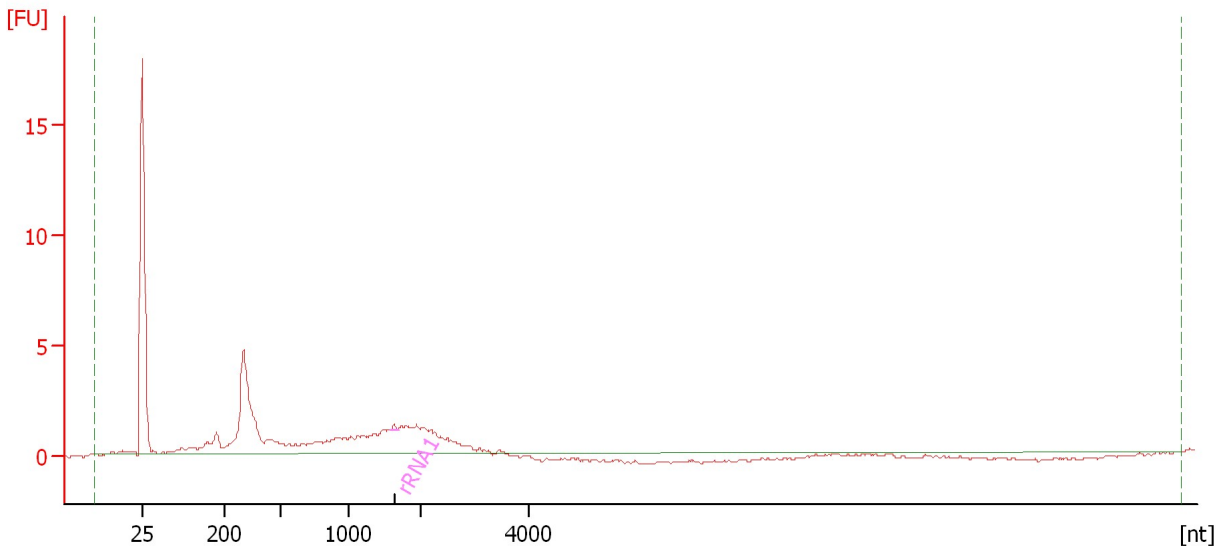
RNA Area: 101.5 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

25 [HiSeq878 Globin 0 RNA]



Overall Results for sample 1 : 25

RNA Area: 50.8 rRNA Contamination: 0.3 %
RNA Concentration: 500 pg/μl

Fragment table for sample 1 : 25

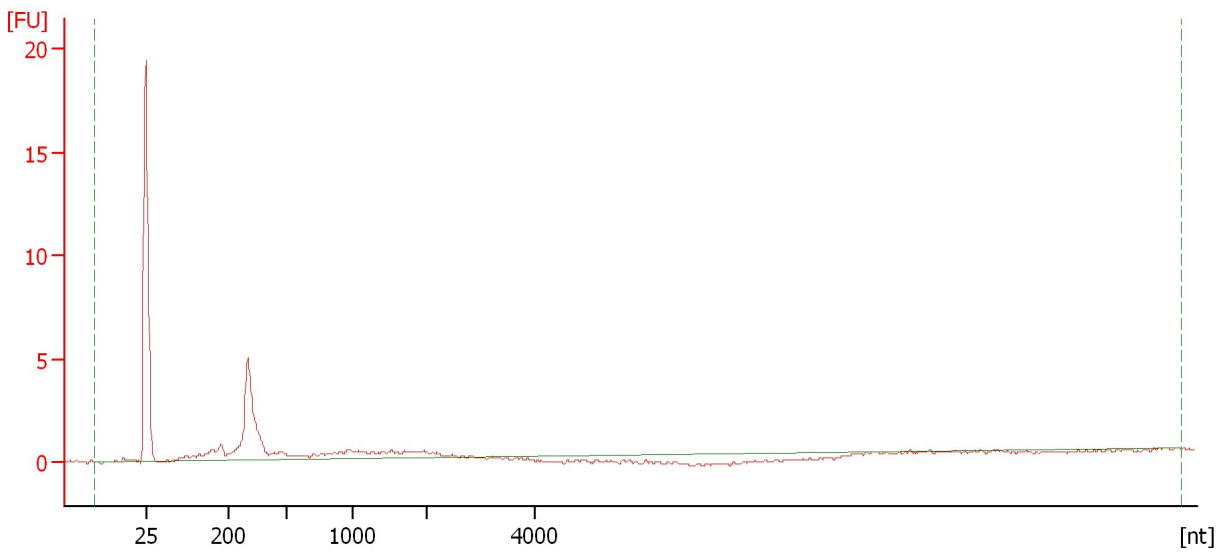
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA1 | 1,580 | 1,678 | 0.2 | 0.3 |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

35 [HiSeq878 Globin 0 RNA]



Overall Results for sample 2 : 35

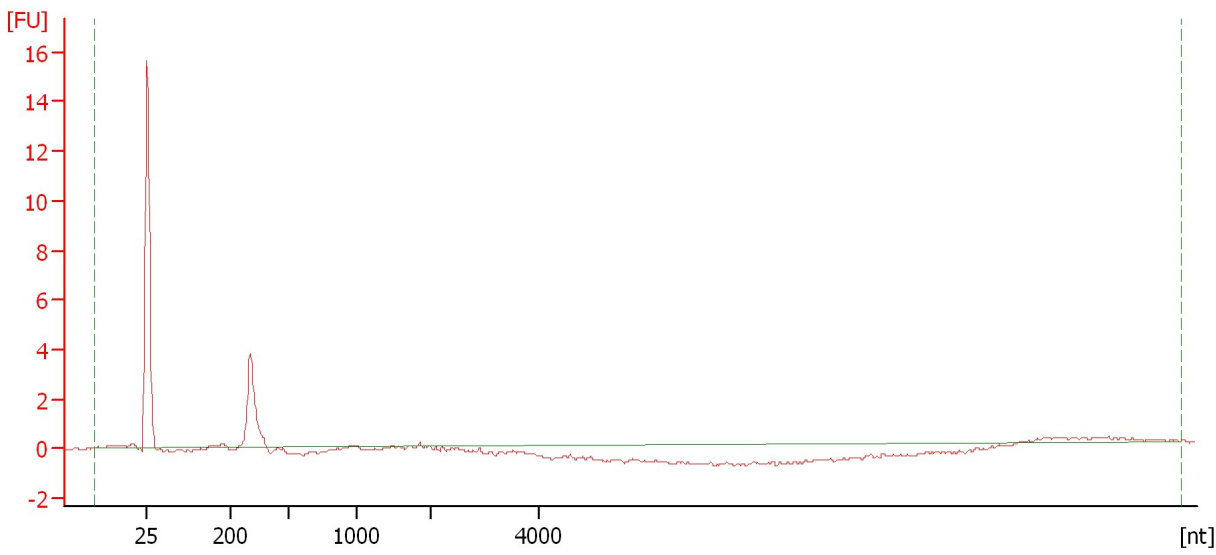
| | | | |
|--------------------|-----------|---------------------|-------|
| RNA Area: | 29.0 | rRNA Contamination: | 0.0 % |
| RNA Concentration: | 286 pg/μl | | |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

45 [HiSeq878 Globin 0 RNA]



Overall Results for sample 3 : 45

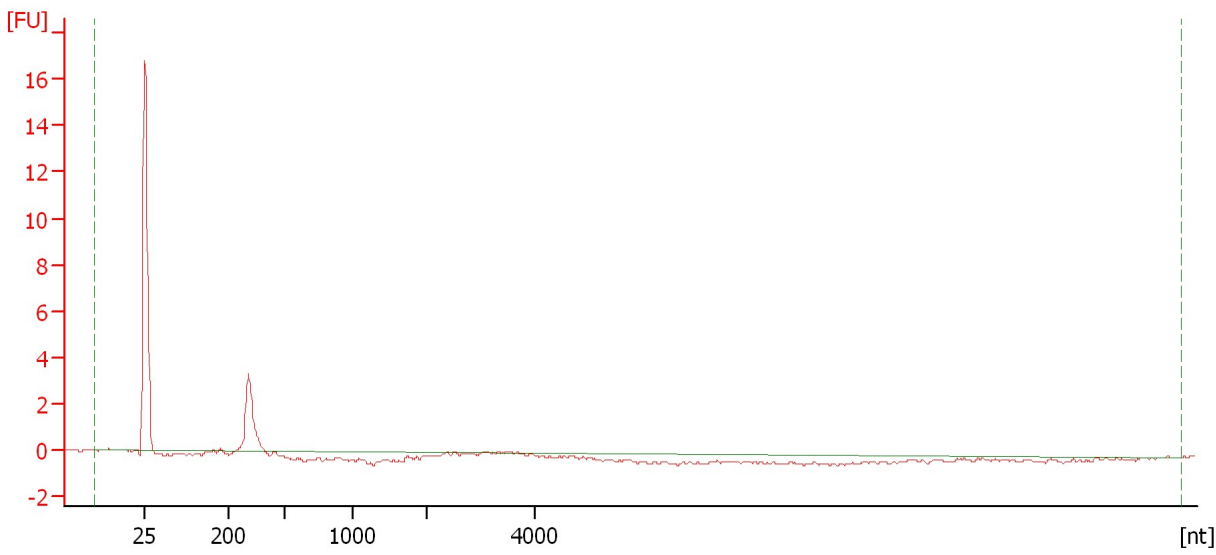
RNA Area: 11.2 rRNA Contamination: 0.0 %
RNA Concentration: 110 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

55 [HiSeq878 Globin 0 RNA]



Overall Results for sample 4 : 55

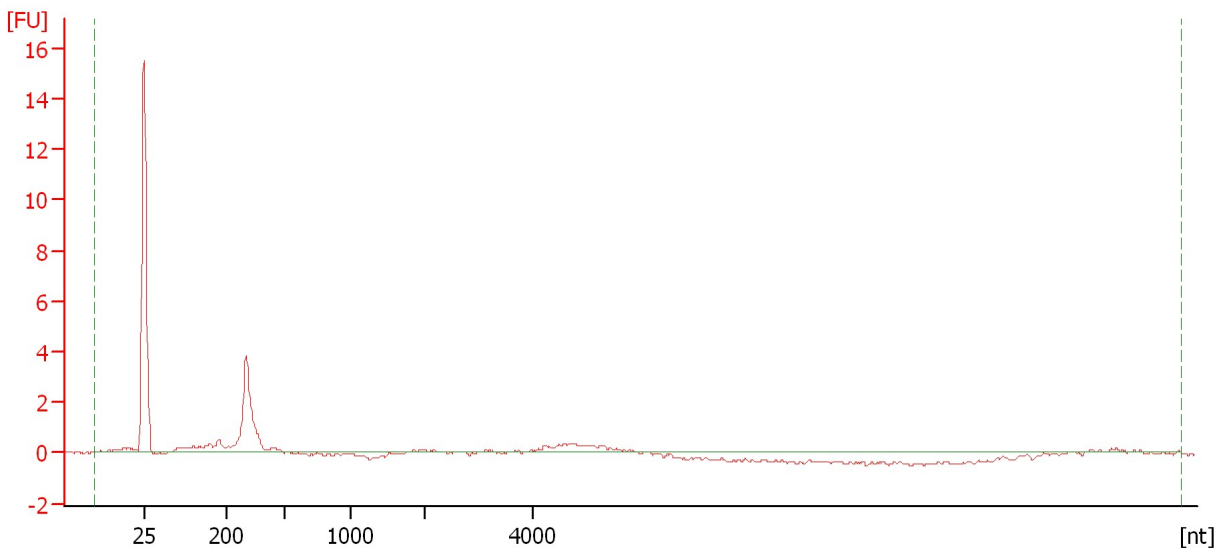
RNA Area: 7.3 rRNA Contamination: 0.0 %
RNA Concentration: 72 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

64 [HiSeq878 Globin 0 RNA]



Overall Results for sample 5 : 64

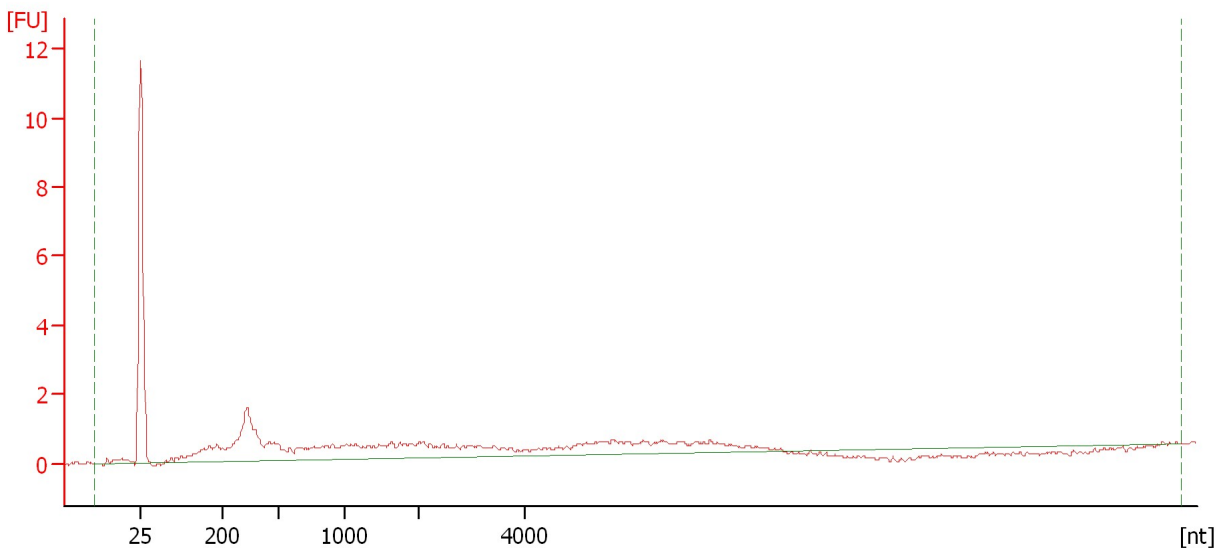
RNA Area: 18.1 rRNA Contamination: 0.0 %
RNA Concentration: 178 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

66 [HiSeq878 Globin 0 RNA]



Overall Results for sample 6 : 66

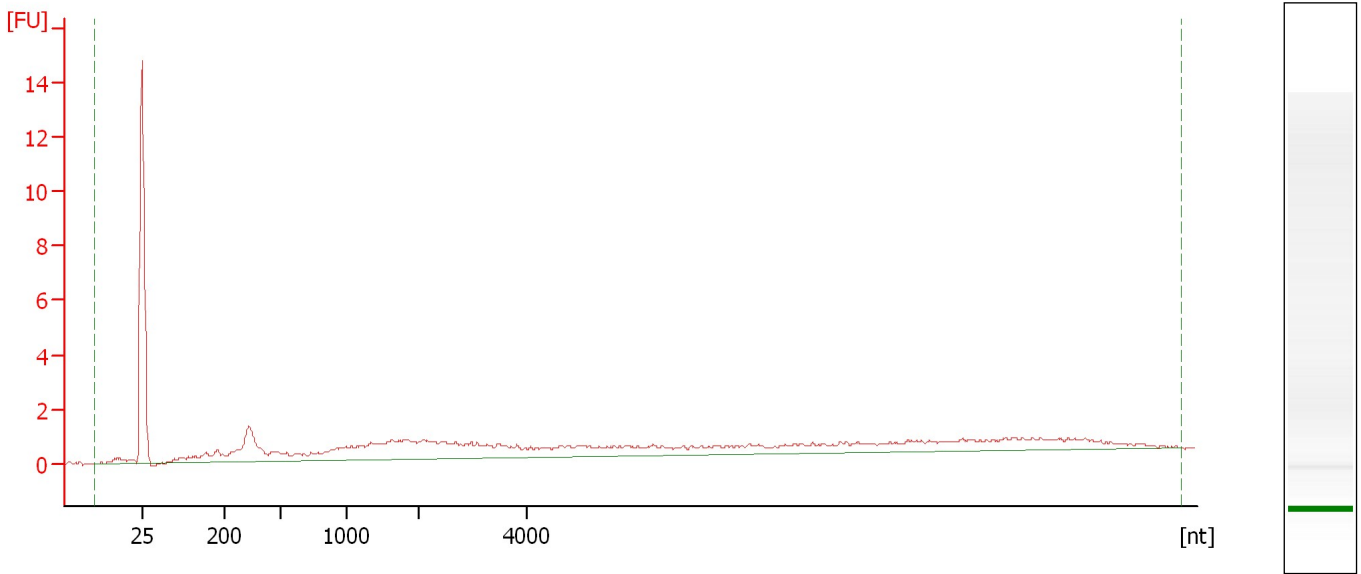
| | | | |
|--------------------|-----------|---------------------|-------|
| RNA Area: | 36.6 | rRNA Contamination: | 0.0 % |
| RNA Concentration: | 361 pg/μl | | |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

28 [HiSeq878 Globin 0 RNA]



Overall Results for sample 7 : 28

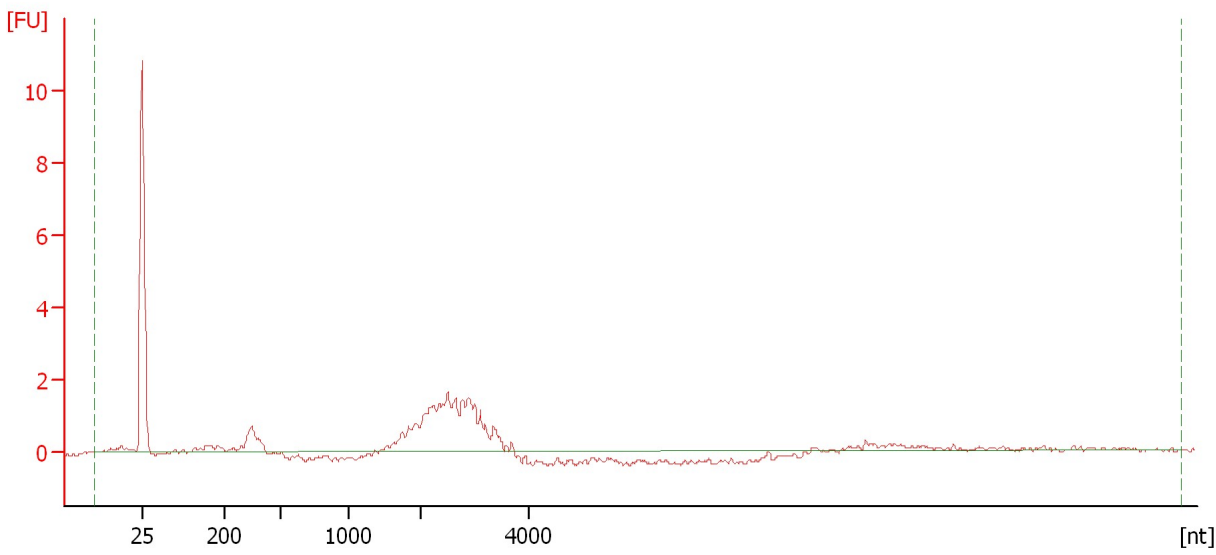
RNA Area: 52.8 rRNA Contamination: 0.0 %
RNA Concentration: 520 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

41 [HiSeq878 Globin 0 RNA]



Overall Results for sample 8 : 41

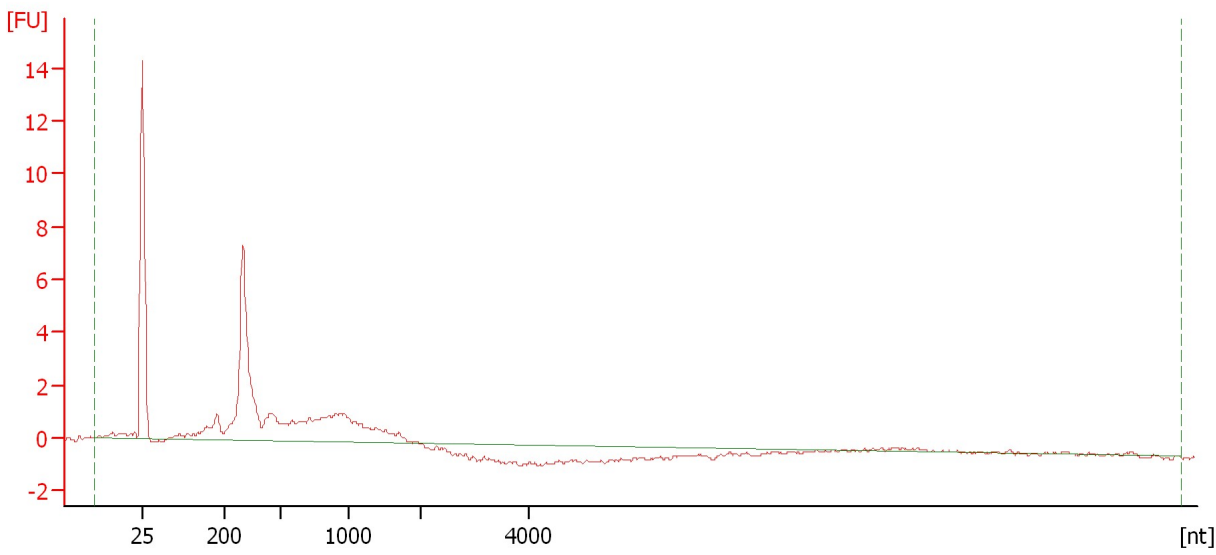
| | | | |
|--------------------|-----------|---------------------|-------|
| RNA Area: | 21.8 | rRNA Contamination: | 0.0 % |
| RNA Concentration: | 214 pg/μl | | |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

48 [HiSeq878 Globin 0 RNA]



Overall Results for sample 9 : 48

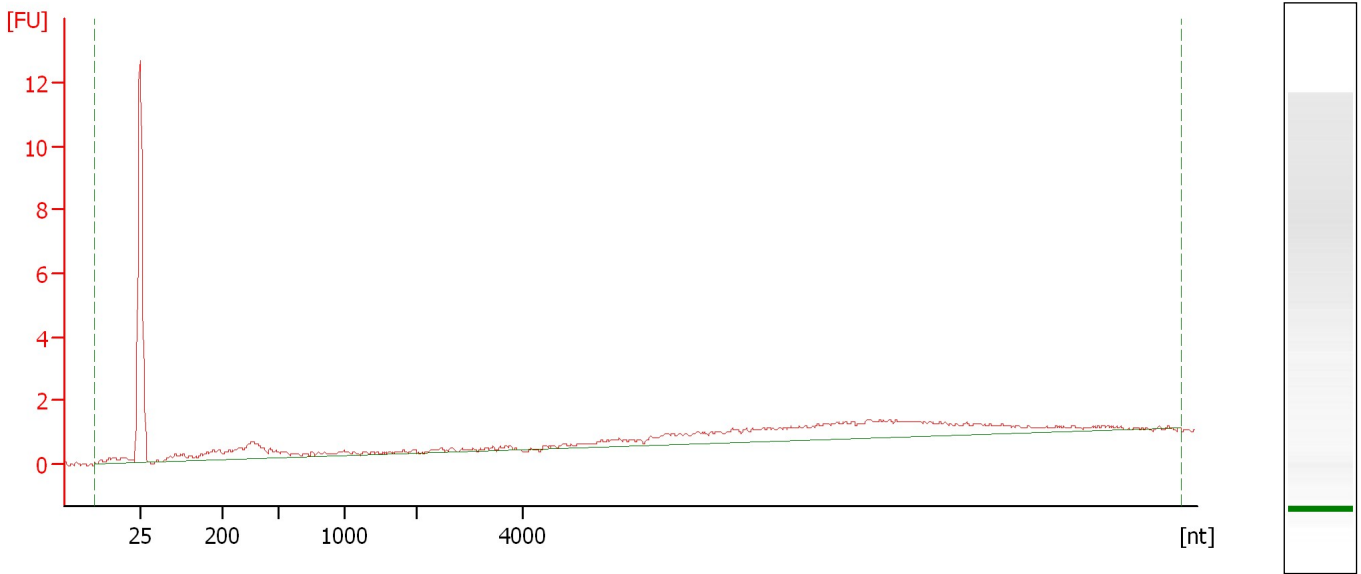
RNA Area: 48.5 rRNA Contamination: 0.0 %
RNA Concentration: 478 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...

51 [HiSeq878 Globin 0 RNA]



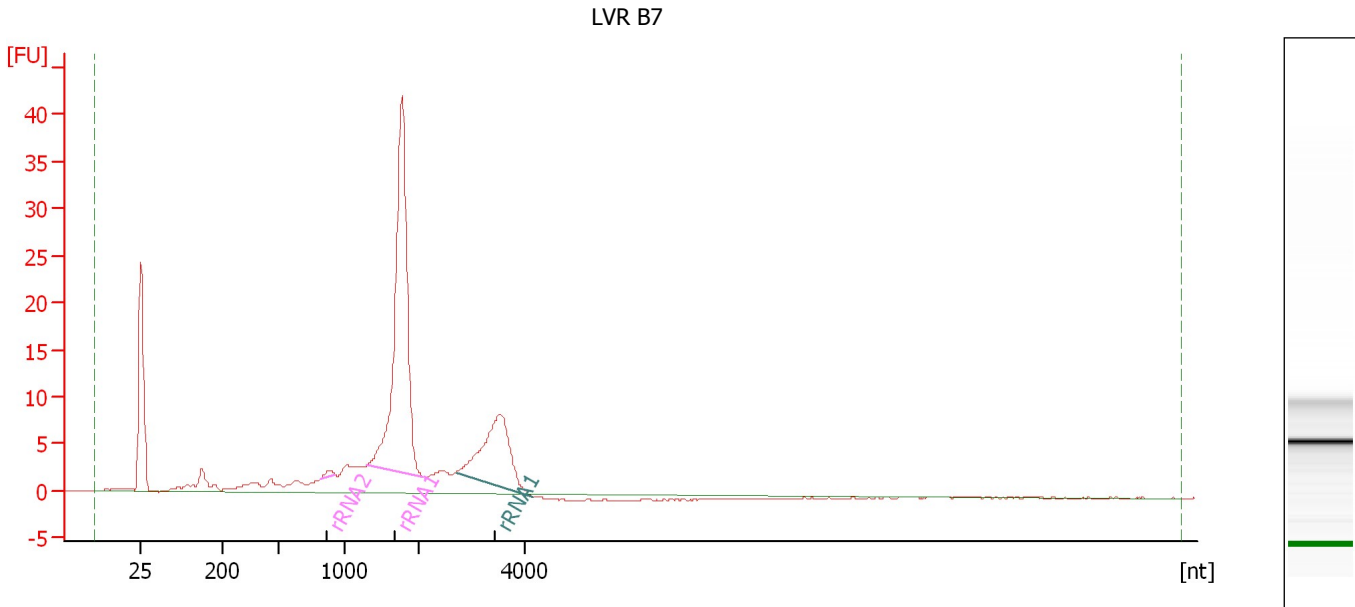
Overall Results for sample 10 : 51

RNA Area: 30.7 rRNA Contamination: 0.0 %
RNA Concentration: 302 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : LVR B7

RNA Area: 232.1 rRNA Contamination: 60.4 %
RNA Concentration: 2,286 pg/μl

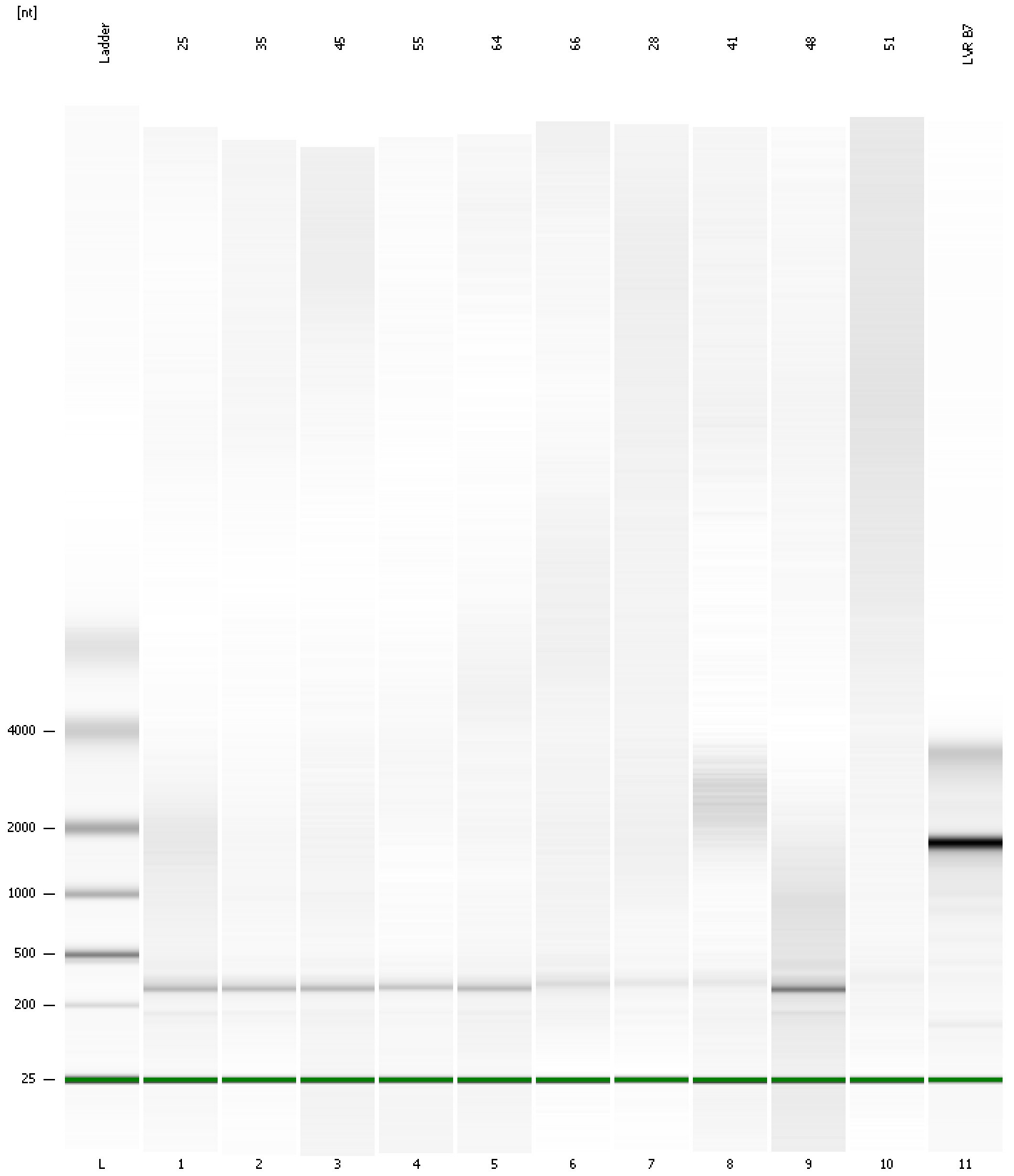
Fragment table for sample 11 : LVR B7

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|-------|-----------------|
| rRNA2 | 811 | 919 | 1.1 | 0.5 |
| rRNA1 | 1,302 | 2,095 | 102.0 | 43.9 |
| rRNA1 | 2,708 | 4,158 | 37.0 | 15.9 |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
Modified: 4/12/2017 12:58:40 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-12\2017-04-12_001.xad

Created: 4/12/2017 12:28:09 PM
 Modified: 4/12/2017 12:58:40 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 4/12/2017 12:54:02 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\2017-04-12\2017-04-12_001.xad) | | Instrument | Run | | 4/12/2017 12:28:15 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/12/2017 12:28:15 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/12/2017 12:28:15 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/12/2017 12:28:15 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/12/2017 12:28:15 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/12/2017 12:28:15 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/12/2017 12:28:15 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |