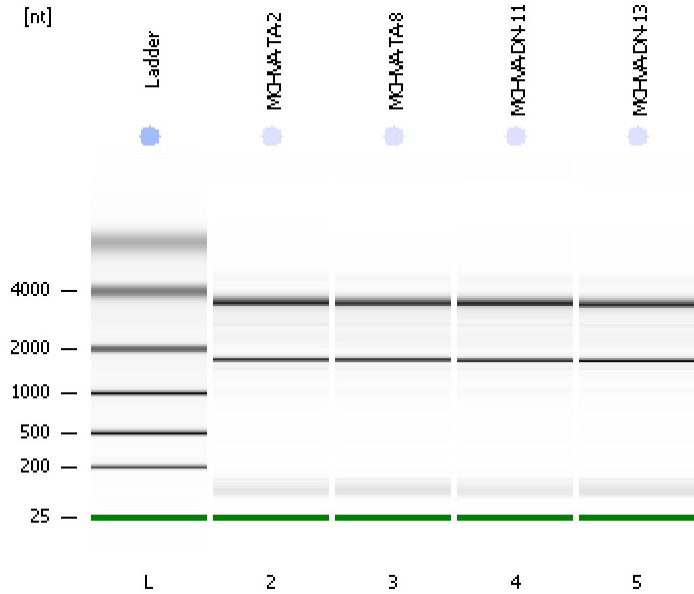


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
Modified: 9/28/2015 9:46:24 AM

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

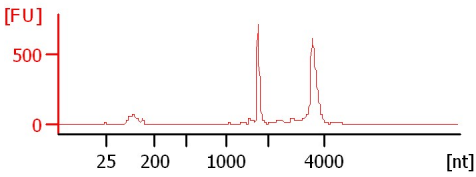
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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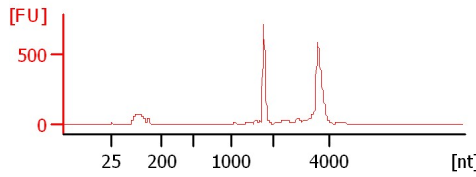
Chip Information:

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

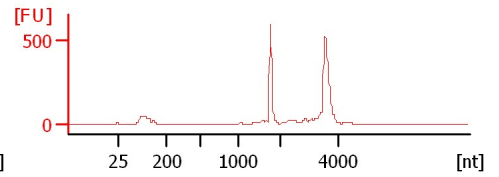
MCHVA-TA-2
RIN: 9.40



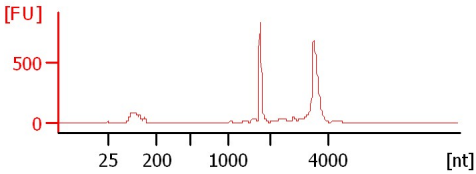
MCHVA-TA-8
RIN: 9.40



MCHVA-DN-11
RIN: 9.40



MCHVA-DN-13
RIN: 9.40



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
 Modified: 9/28/2015 9:46:24 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| MCHVA-TA-2 | | ✓ | RIN: 9.40 | |
| MCHVA-TA-8 | | ✓ | RIN: 9.40 | |
| MCHVA-DN-11 | | ✓ | RIN: 9.40 | |
| MCHVA-DN-13 | | ✓ | RIN: 9.40 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
Modified: 9/28/2015 9:46:24 AM

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

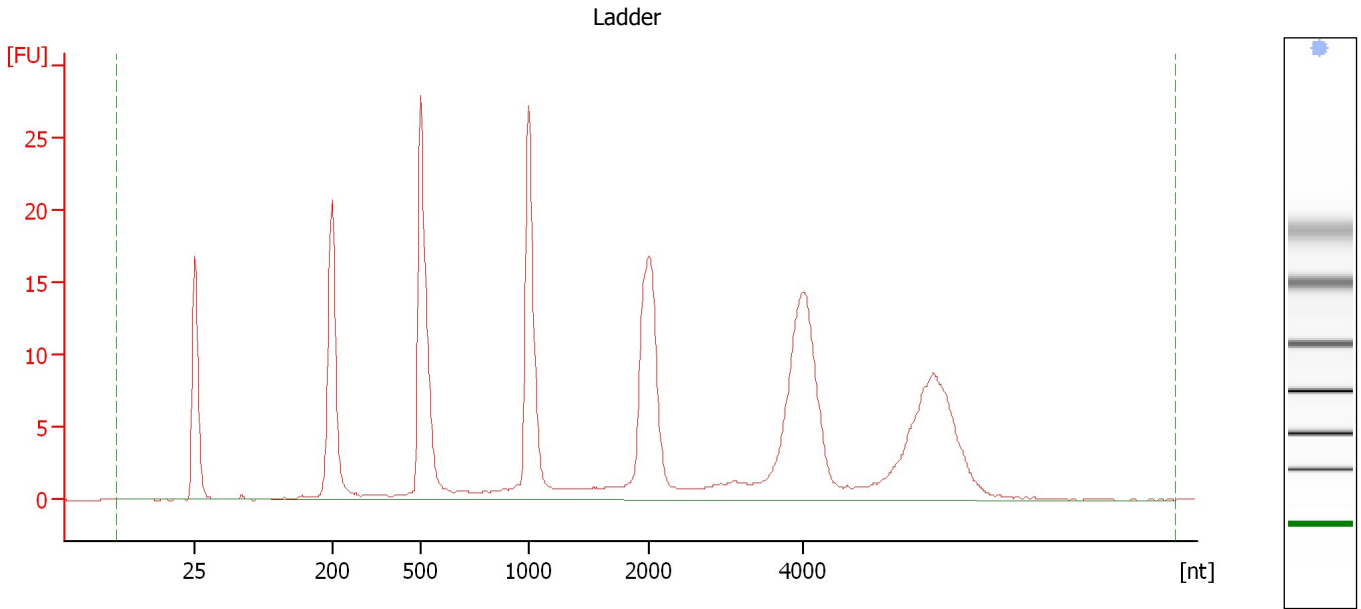
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
Modified: 9/28/2015 9:46:24 AM

Electropherogram Summary



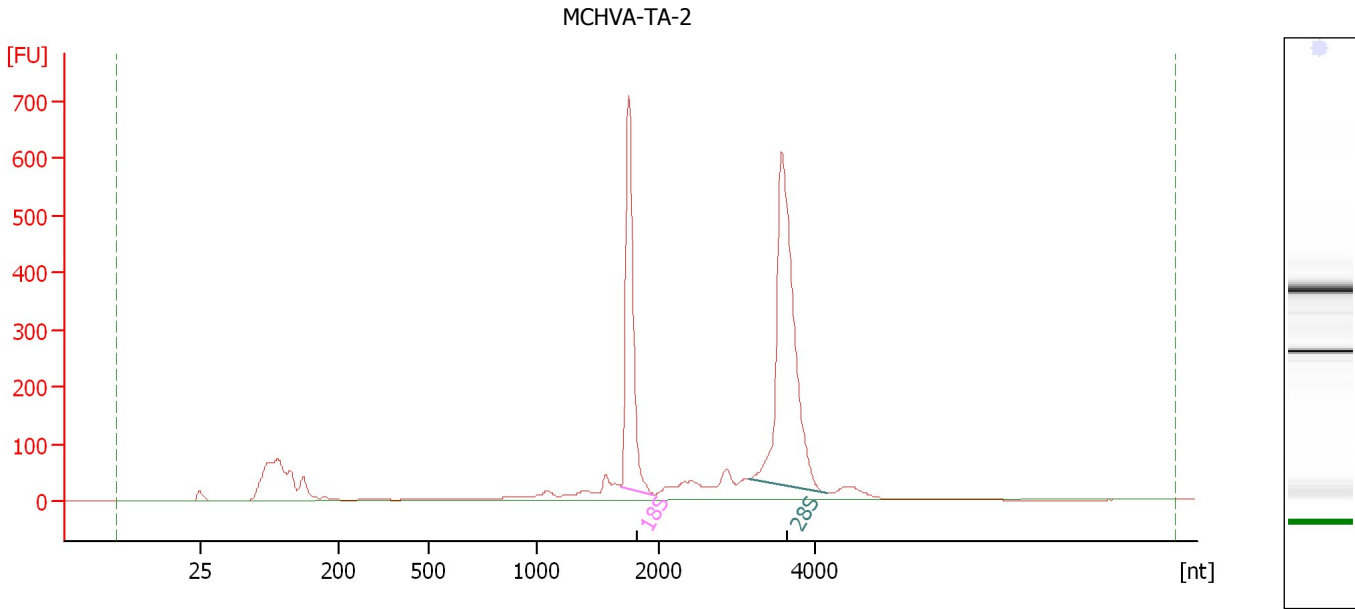
Overall Results for Ladder

| | | | |
|--------------------|-----------------|------------------------|---|
| RNA Area: | 246.7 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/ μ l | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
 Modified: 9/28/2015 9:46:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MCHVA-TA-2

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 2,901.6 | RNA Integrity Number (RIN): | 9.4 (B.02.08) |
| RNA Concentration: | 1,764 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.8 | Result Flagging Label: | RIN: 9.40 |

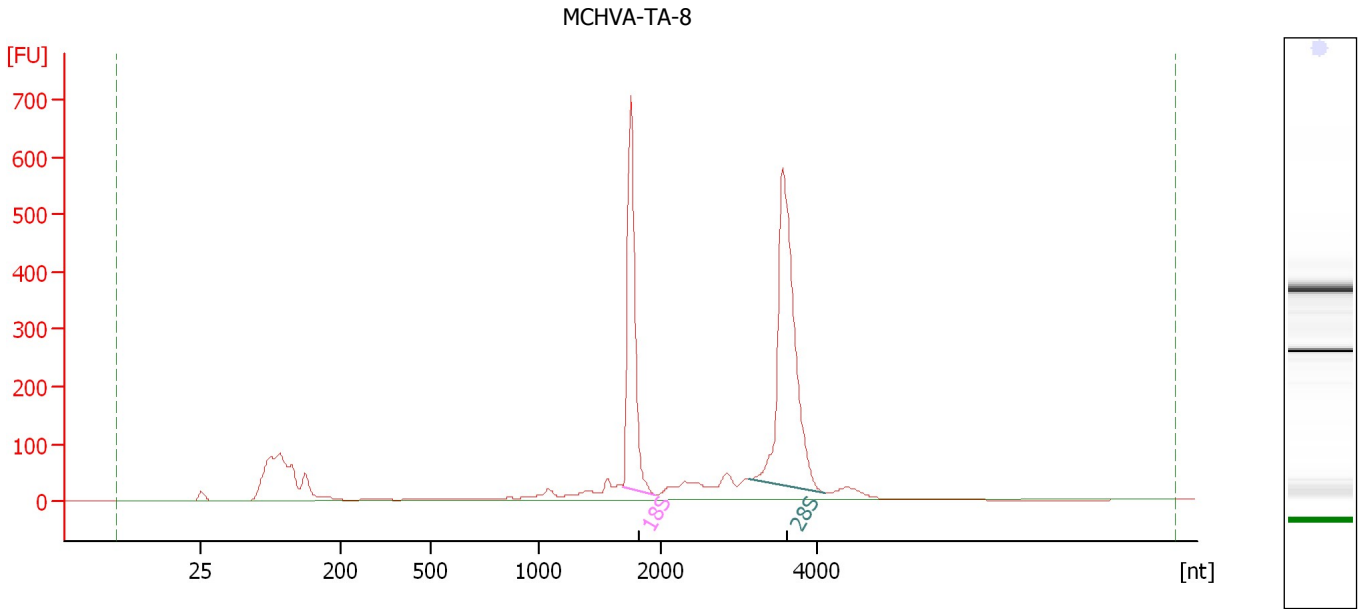
Fragment table for sample 2 : MCHVA-TA-2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|---------|-----------------|
| 18S | 1,694 | 1,959 | 598.4 | 20.6 |
| 28S | 3,165 | 4,148 | 1,067.7 | 36.8 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
Modified: 9/28/2015 9:46:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MCHVA-TA-8

RNA Area: 2,874.4 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 1,748 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.40

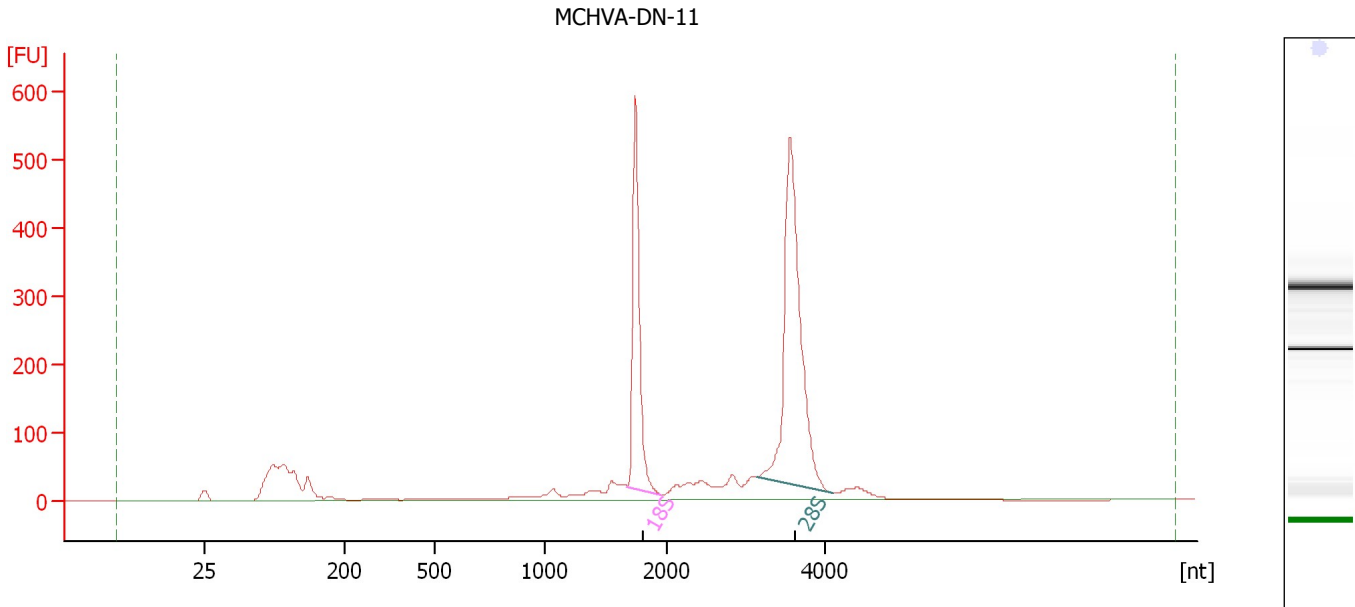
Fragment table for sample 3 : MCHVA-TA-8

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,695 | 1,960 | 607.3 | 21.1 |
| 28S | 3,123 | 4,103 | 974.0 | 33.9 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
Modified: 9/28/2015 9:46:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MCHVA-DN-11

RNA Area: 2,359.1 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 1,434 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.40

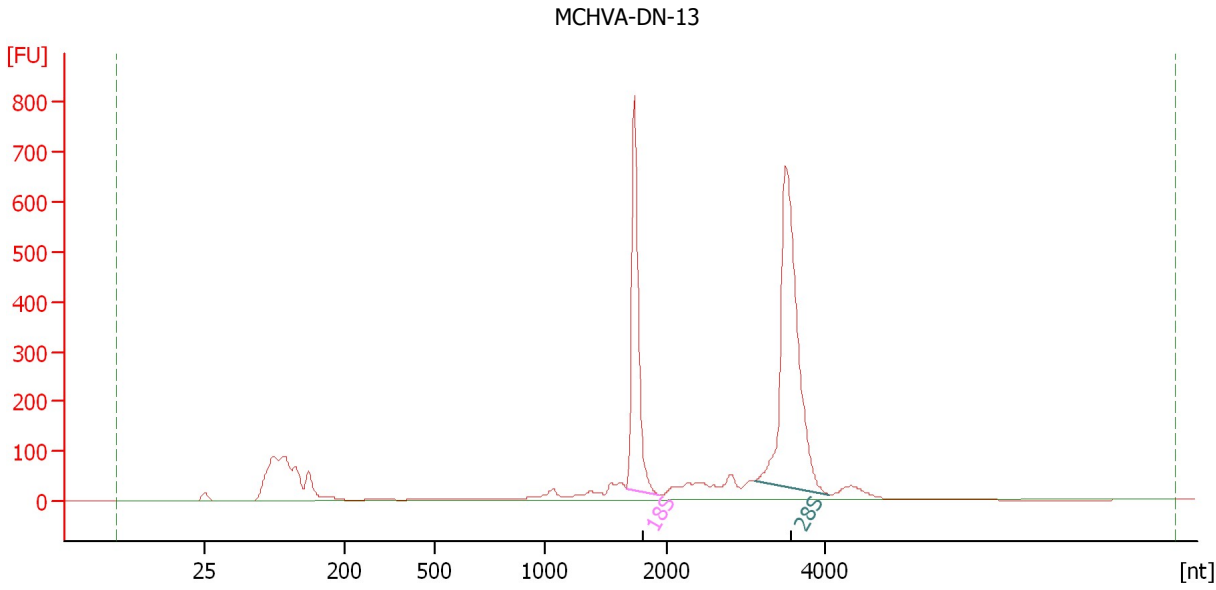
Fragment table for sample 4 : MCHVA-DN-11

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,682 | 1,954 | 490.6 | 20.8 |
| 28S | 3,146 | 4,107 | 845.2 | 35.8 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
Modified: 9/28/2015 9:46:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MCHVA-DN-13

RNA Area: 3,236.1 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 1,968 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.40

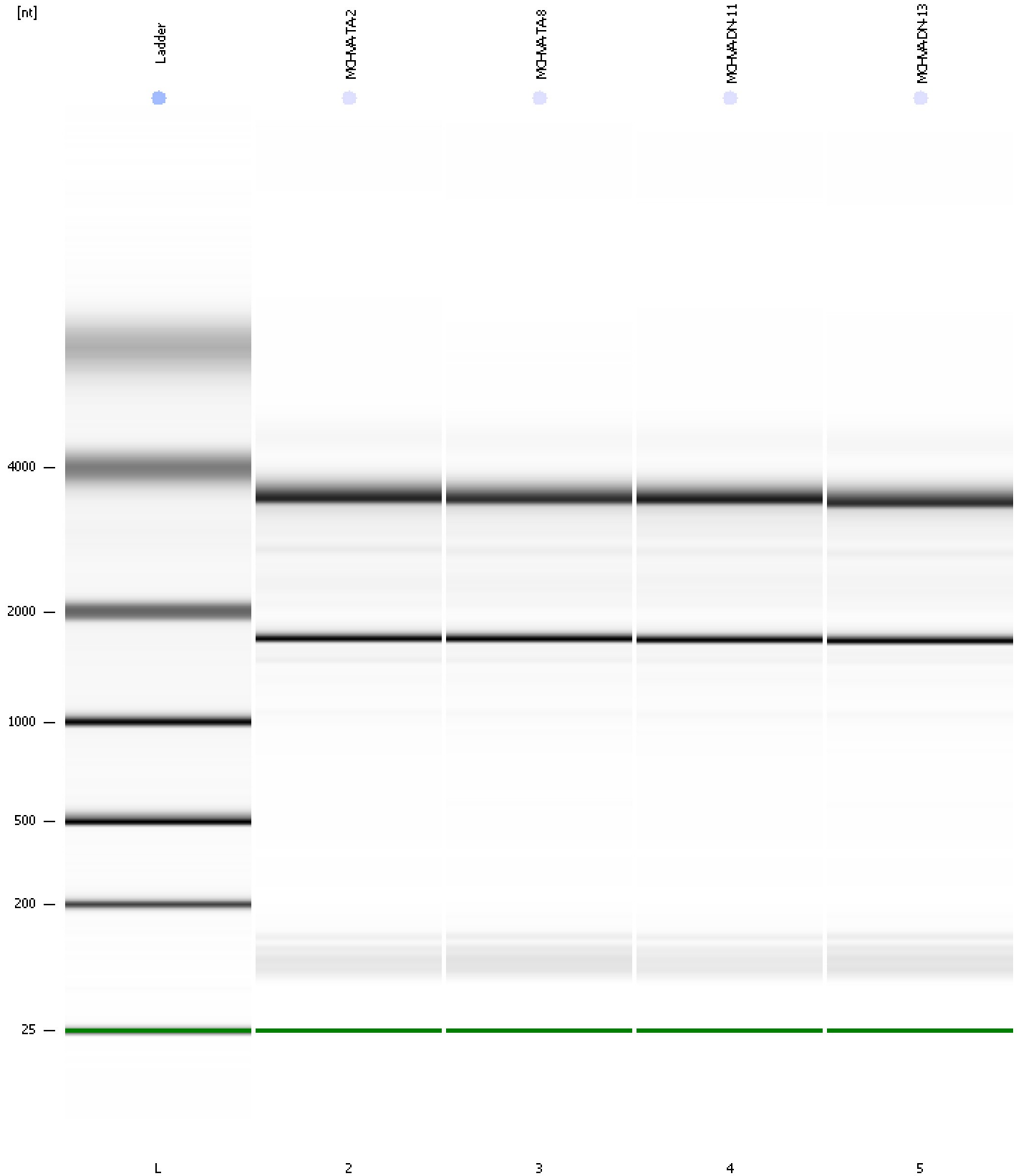
Fragment table for sample 5 : MCHVA-DN-13

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|---------|-----------------|
| 18S | 1,673 | 1,936 | 689.0 | 21.3 |
| 28S | 3,119 | 4,053 | 1,133.8 | 35.0 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
Modified: 9/28/2015 9:46:24 AM

Gel Image

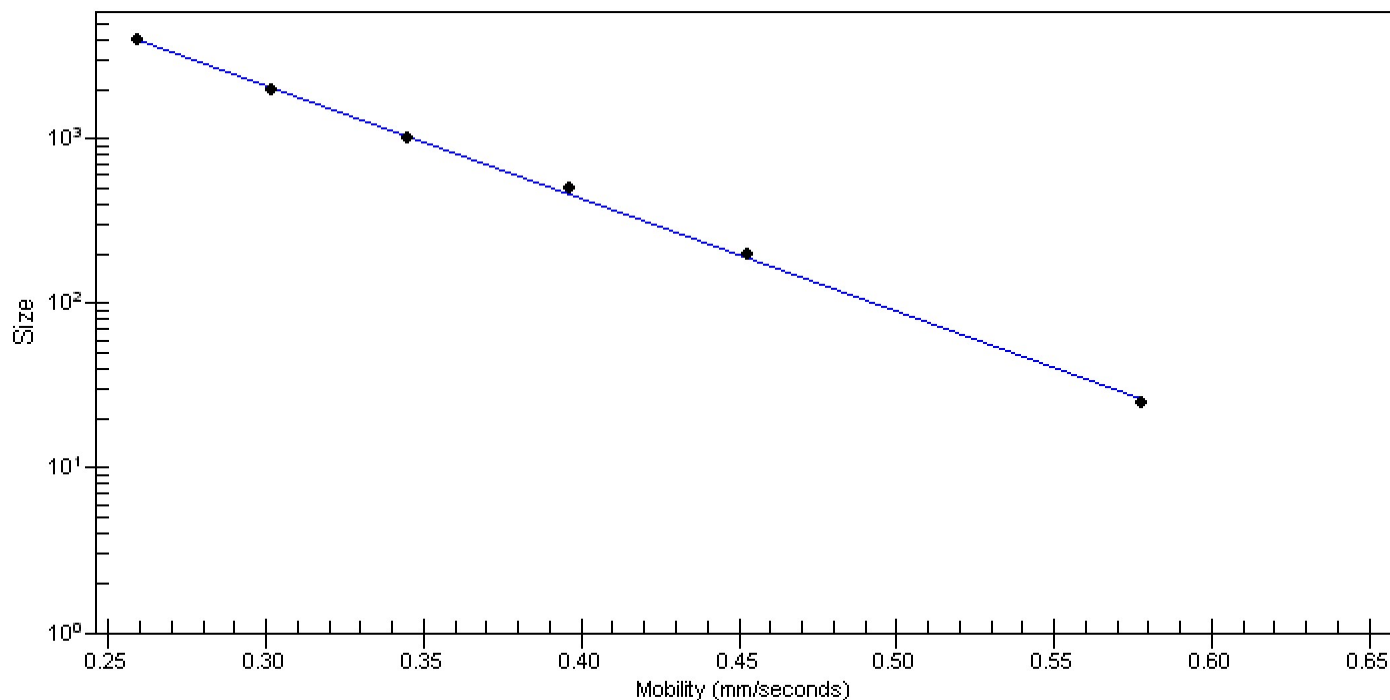


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad

Created: 9/28/2015 9:24:51 AM
Modified: 9/28/2015 9:46:24 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano Created: 9/28/2015 9:24:51 AM
 Data Path: C:\...nd Settings\Bioanalyzer\2015-09-28\2015-09-28_001_RNAQC.xad Modified: 9/28/2015 9:46:24 AM

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 | | 9/28/2015 9:40:57 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-09-28\2015-09-28_001.xad) | | Instrument | Run | | 9/28/2015 9:24:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 9/28/2015 9:24:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 9/28/2015 9:24:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 9/28/2015 9:24:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 9/28/2015 9:24:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 9/28/2015 9:24:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 9/28/2015 9:24:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |