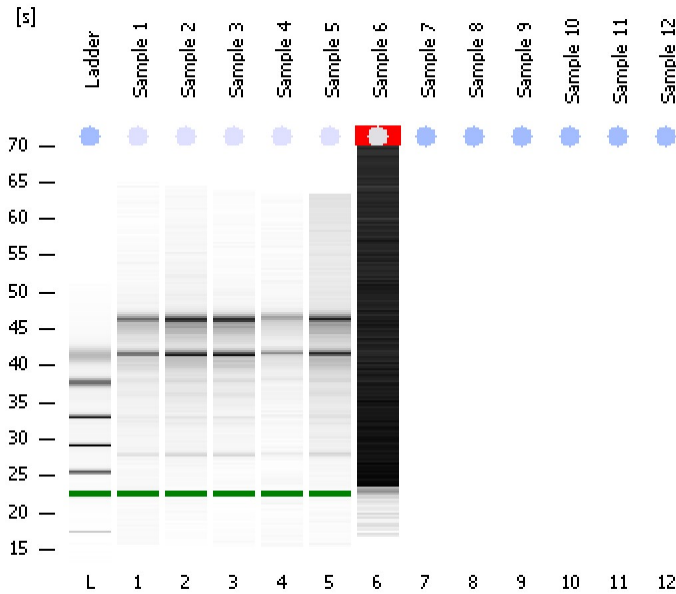


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
Modified: 9/10/2014 10:16:10 AM

Electrophoresis File Run Summary



Instrument Information:

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

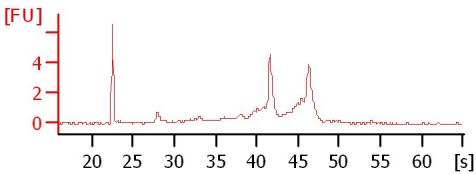
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

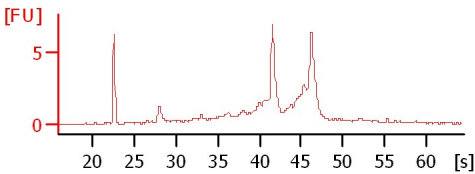
Chip Information:

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

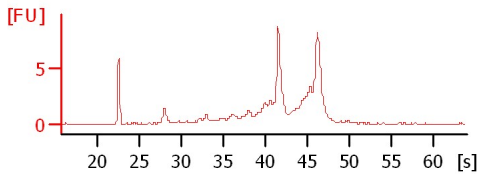
Sample 1
RIN: 7.70



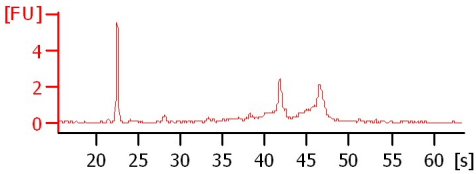
Sample 2
RIN: 6.90



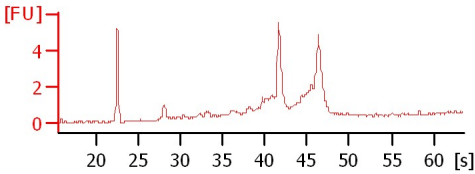
Sample 3
RIN: 7.10



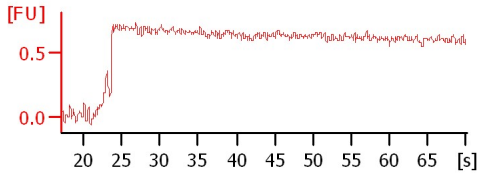
Sample 4
RIN: 5.70



Sample 5
RIN: 5.60



Sample 6
RIN N/A



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
 Modified: 9/10/2014 10:16:10 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| Sample 1 | | ✓ | RIN: 7.70 | |
| Sample 2 | | ✓ | RIN: 6.90 | |
| Sample 3 | | ✓ | RIN: 7.10 | |
| Sample 4 | | ✓ | RIN: 5.70 | |
| Sample 5 | | ✓ | RIN: 5.60 | |
| Sample 6 | | ✓ | RIN N/A | |
| 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\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
Modified: 9/10/2014 10:16:10 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

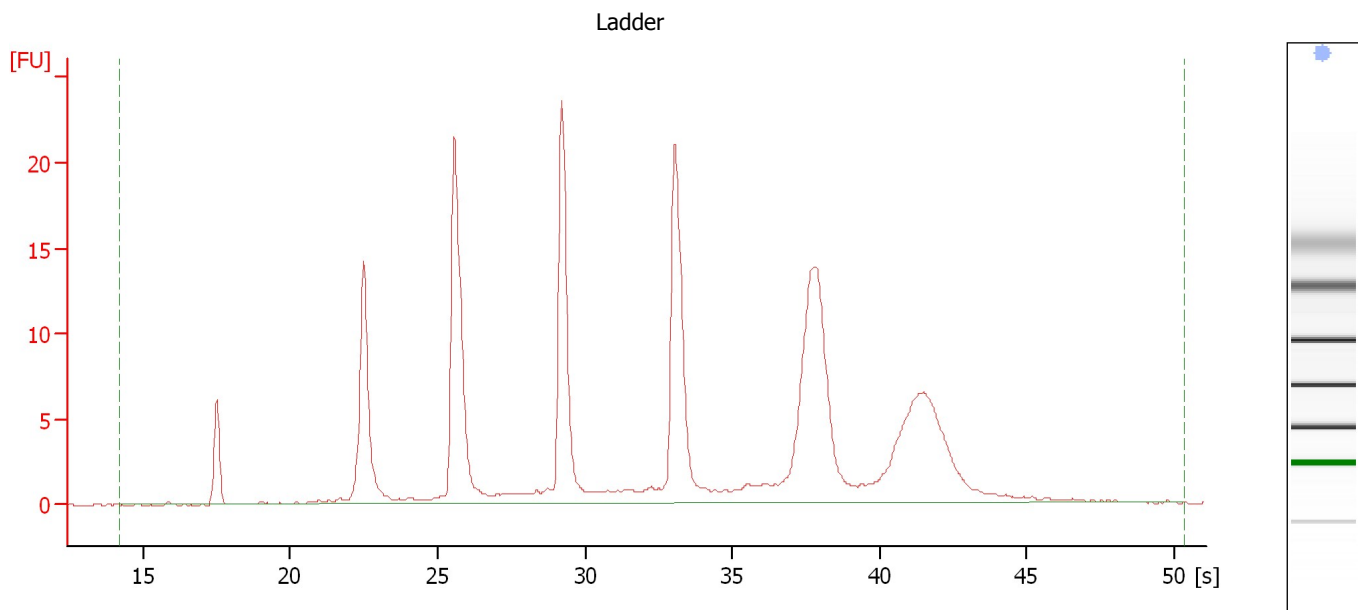
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
Modified: 9/10/2014 10:16:10 AM

Electropherogram Summary



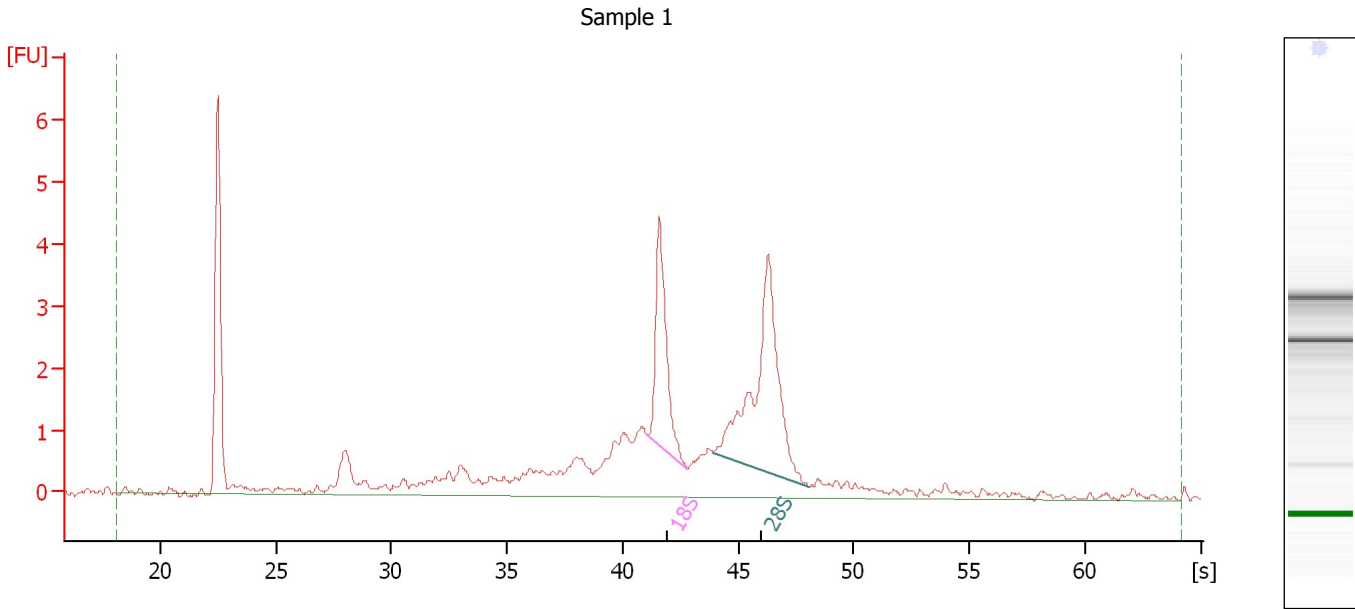
Overall Results for Ladder

| | | | |
|--------------------|-----------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 192.4 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/ μ l | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
Modified: 9/10/2014 10:16:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

| | | | |
|-------------------------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 42.6 | RNA Integrity Number (RIN): | 7.7 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 33 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.9 | Result Flagging Label: | RIN: 7.70 |

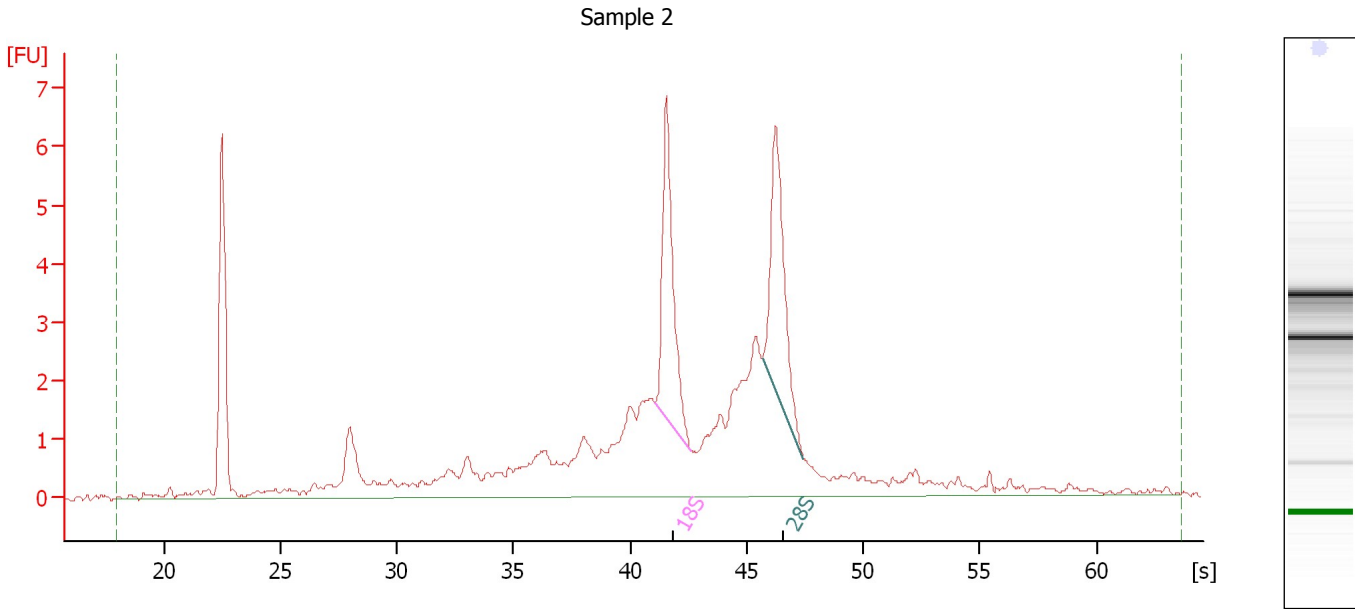
Fragment table for sample 1 : Sample 1

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,757 | 4,707 | 4.5 | 10.7 |
| 28S | 5,307 | 7,532 | 8.8 | 20.6 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
Modified: 9/10/2014 10:16:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

| | | | |
|-------------------------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 65.8 | RNA Integrity Number (RIN): | 6.9 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 51 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.0 | Result Flagging Label: | RIN: 6.90 |

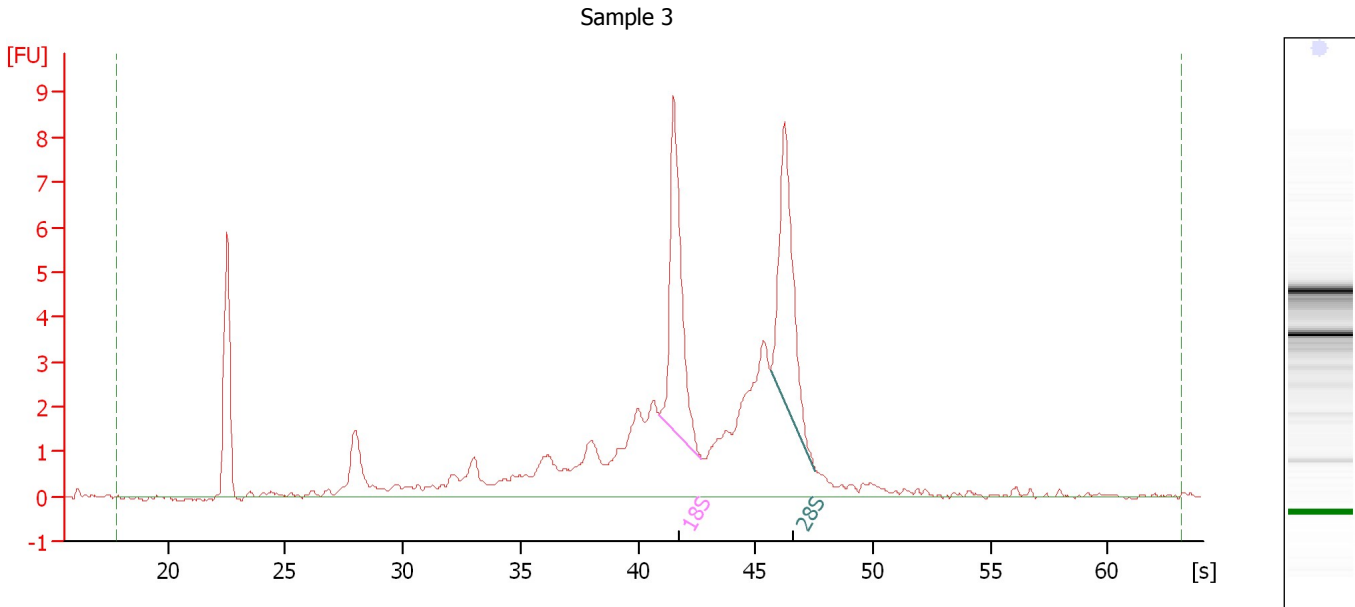
Fragment table for sample 2 : Sample 2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,775 | 4,593 | 6.7 | 10.3 |
| 28S | 6,254 | 7,196 | 6.4 | 9.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
 Modified: 9/10/2014 10:16:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

| | | | |
|-------------------------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 72.0 | RNA Integrity Number (RIN): | 7.1 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 56 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.9 | Result Flagging Label: | RIN: 7.10 |

Fragment table for sample 3 : Sample 3

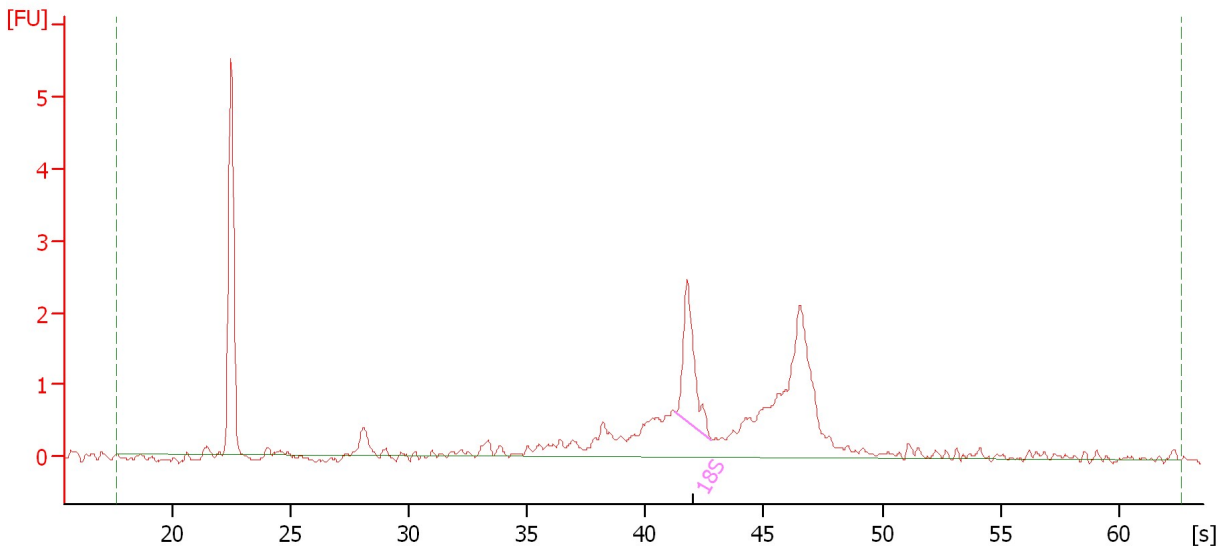
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,693 | 4,652 | 9.5 | 13.2 |
| 28S | 6,226 | 7,259 | 9.0 | 12.5 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
Modified: 9/10/2014 10:16:10 AM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

| | | | |
|-------------------------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area: | 20.6 | RNA Integrity Number (RIN): | 5.7 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 16 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 5.70 |

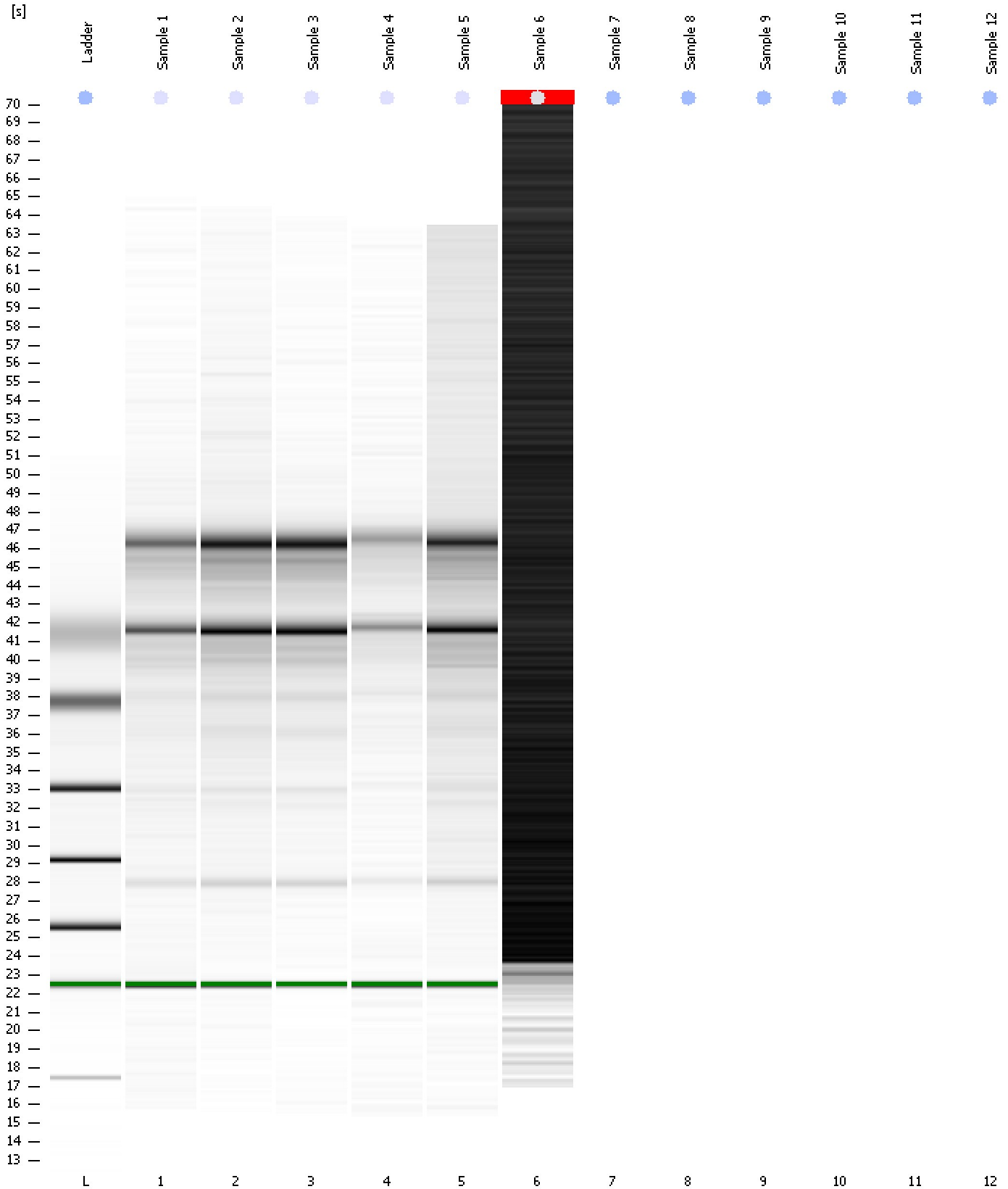
Fragment table for sample 4 : Sample 4

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,882 | 4,687 | 2.5 | 12.1 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
Modified: 9/10/2014 10:16:10 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad

Created: 9/10/2014 9:57:36 AM
 Modified: 9/10/2014 10:16:10 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 | | 9/10/2014 10:13:10 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-10\2014-09-10_001.xad) | | Instrument | Run | | 9/10/2014 9:57:42 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 9/10/2014 9:57:42 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 9/10/2014 9:57:42 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 9/10/2014 9:57:42 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 9/10/2014 9:57:42 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 9/10/2014 9:57:42 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 9/10/2014 9:57:42 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |