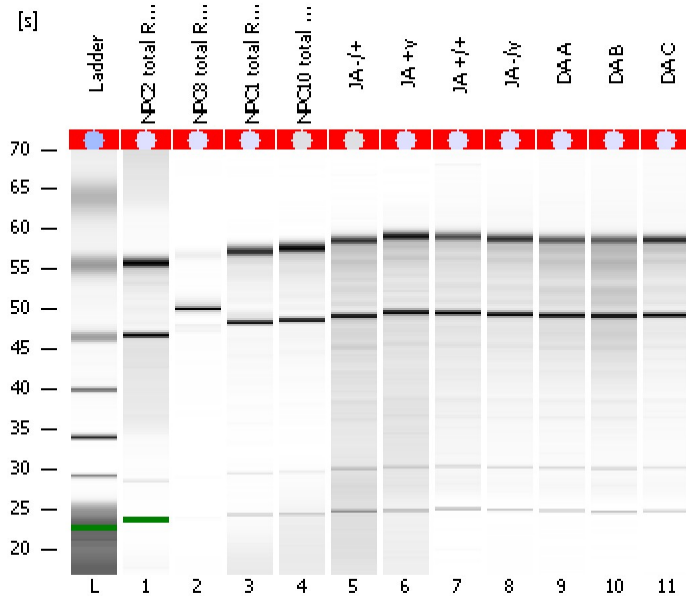


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
 Modified: 4/9/2015 4:09:22 PM

Electrophoresis File Run Summary



Instrument Information:

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

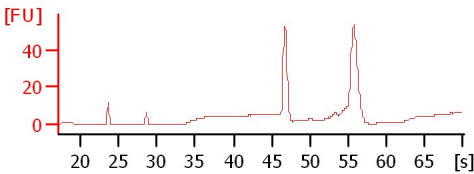
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
 Assay Class: Eukaryote Total RNA Pico
 Version: 2.6
 Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

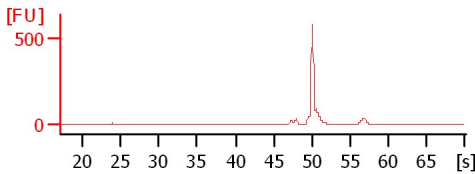
Chip Information:

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

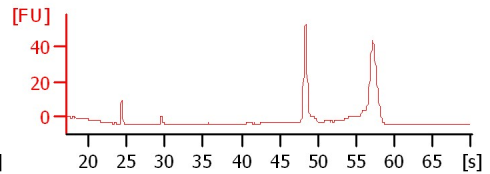
NPC2 total RNA
 RIN: 2.40



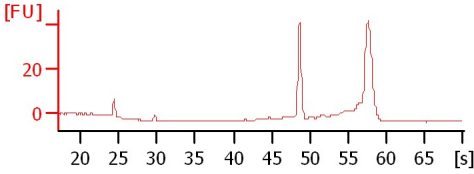
NPC8 total RNA
 RIN: 2.50



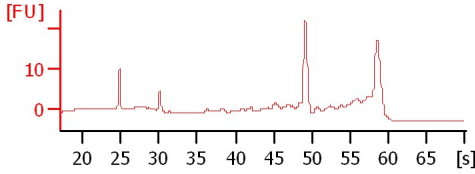
NPC1 total RNA
 RIN: 2.60



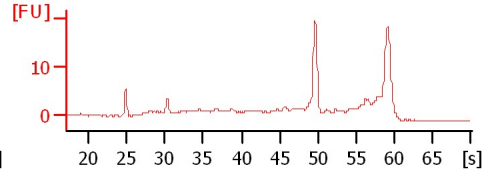
NPC10 total RNA
 RIN N/A



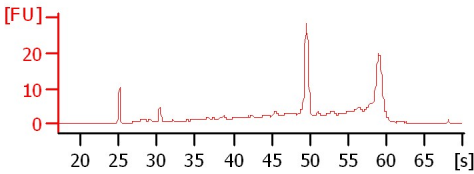
JA -/+
 RIN N/A



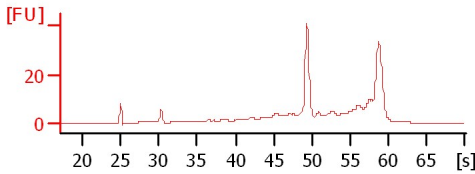
JA +/+
 RIN: 2.40



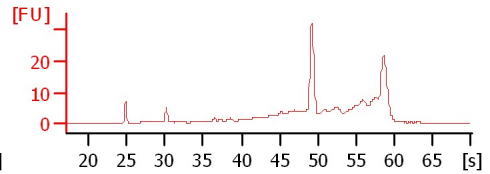
JA +/-
 RIN: 2.50



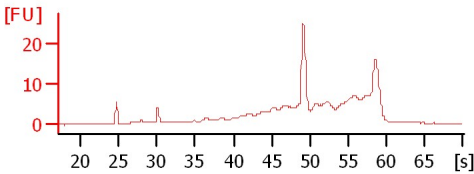
JA -/y
 RIN: 2.50



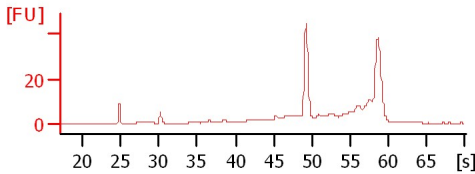
DA A
 RIN: 2.50



DA B
 RIN: 2.50



DA C
 RIN: 2.50



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
 Modified: 4/9/2015 4:09:22 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-----------------|----------------|--------|-------------------|--------------|
| NPC2 total RNA | | ✓ | RIN: 2.40 | |
| NPC8 total RNA | | ✓ | RIN: 2.50 | |
| NPC1 total RNA | | ✓ | RIN: 2.60 | |
| NPC10 total RNA | | ✓ | RIN N/A | |
| JA -/+ | | ✓ | RIN N/A | |
| JA +y | | ✓ | RIN: 2.40 | |
| JA +/- | | ✓ | RIN: 2.50 | |
| JA -/y | | ✓ | RIN: 2.50 | |
| DA A | | ✓ | RIN: 2.50 | |
| DA B | | ✓ | RIN: 2.50 | |
| DA C | | ✓ | RIN: 2.50 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

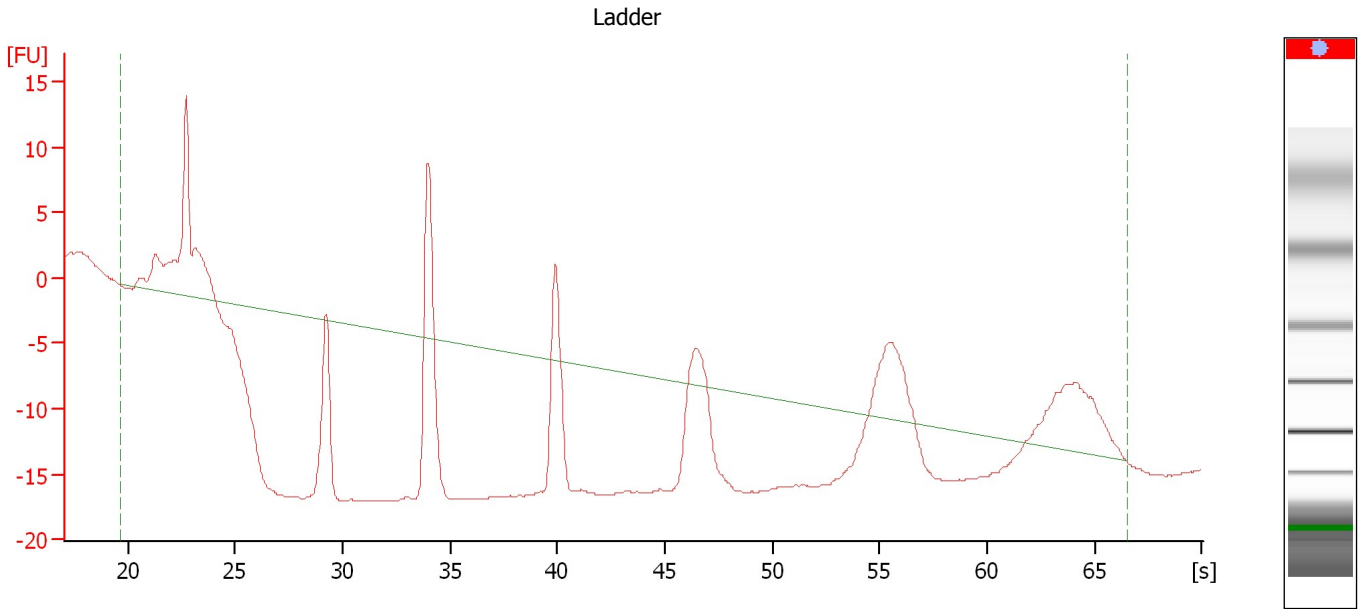
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary



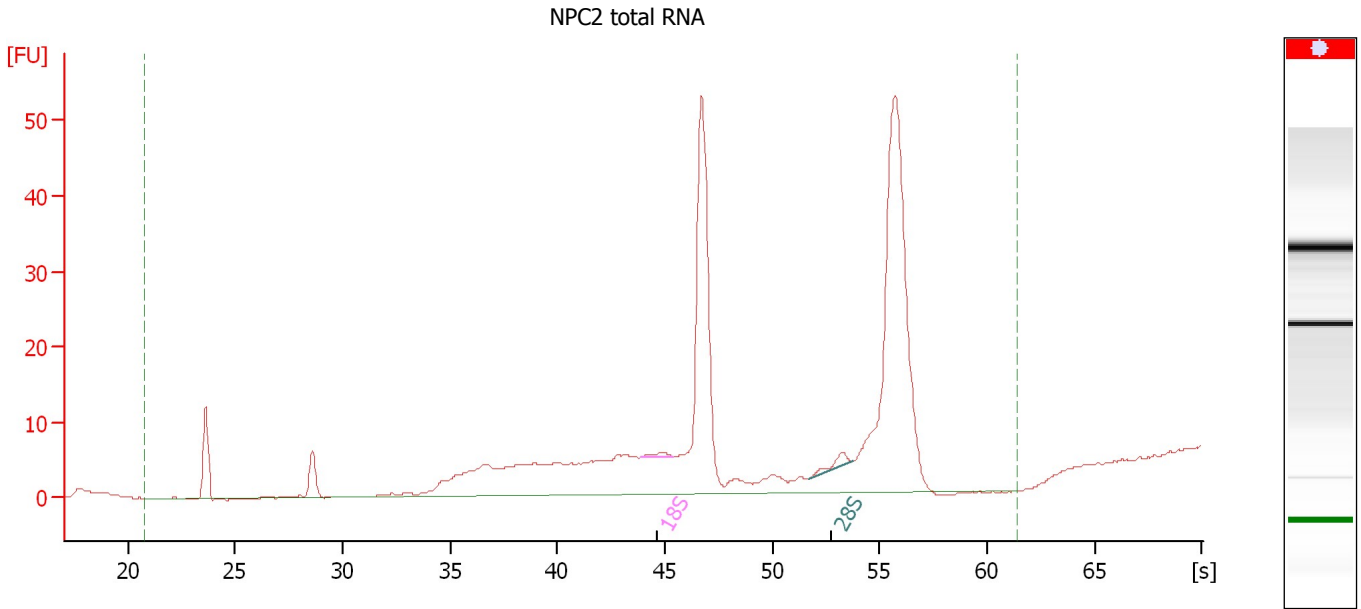
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 73.1 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : NPC2 total RNA

RNA Area: 347.9 RNA Integrity Number (RIN): 2.4 (B.02.08)
RNA Concentration: 4,757 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 2.40

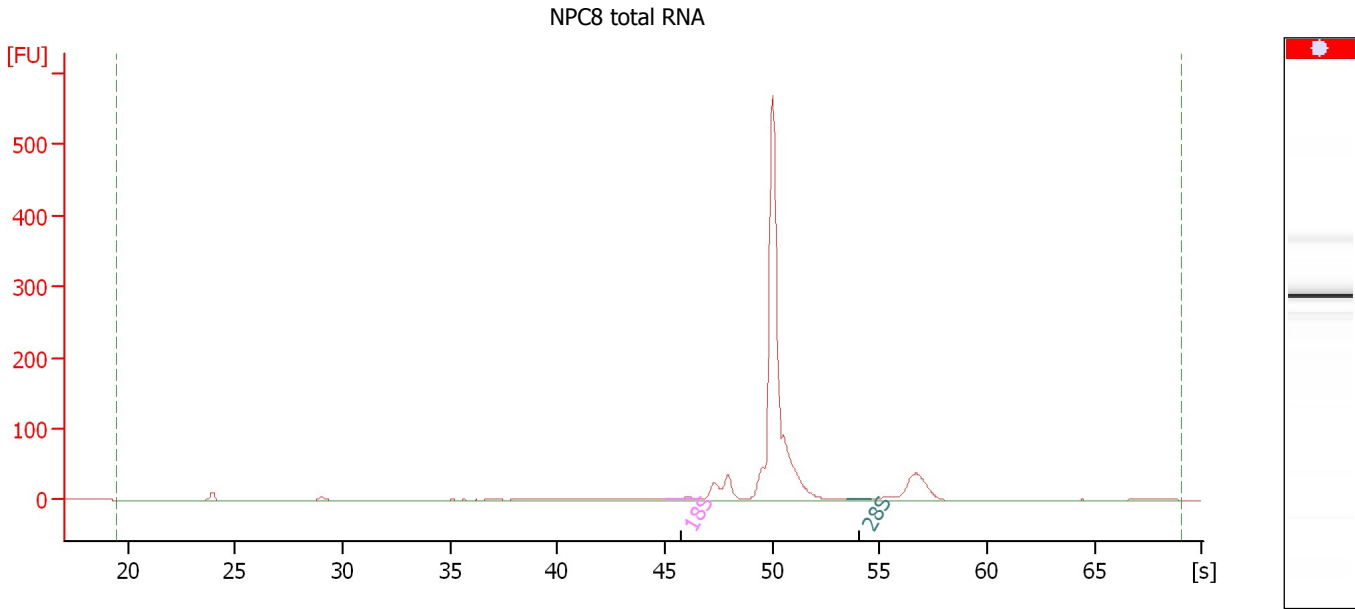
Fragment table for sample 1 : NPC2 total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 1.1 | 0.3 |
| 28S | 0 | 0 | 2.6 | 0.8 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NPC8 total RNA

RNA Area: 822.7 RNA Integrity Number (RIN): 2.5 (B.02.08)
RNA Concentration: 11,250 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 2.50

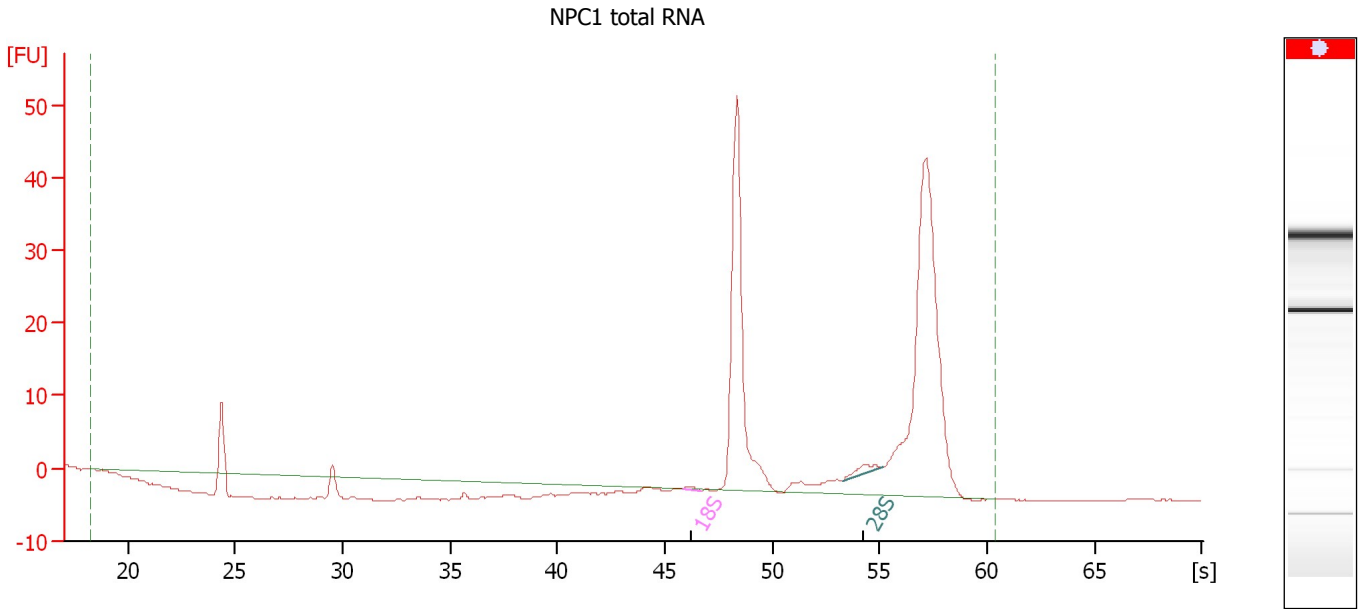
Fragment table for sample 2 : NPC8 total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 1.4 | 0.2 |
| 28S | 0 | 0 | 1.5 | 0.2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NPC1 total RNA

RNA Area: 191.9 RNA Integrity Number (RIN): 2.6 (B.02.08)
RNA Concentration: 2,623 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 6.7 Result Flagging Label: RIN: 2.60

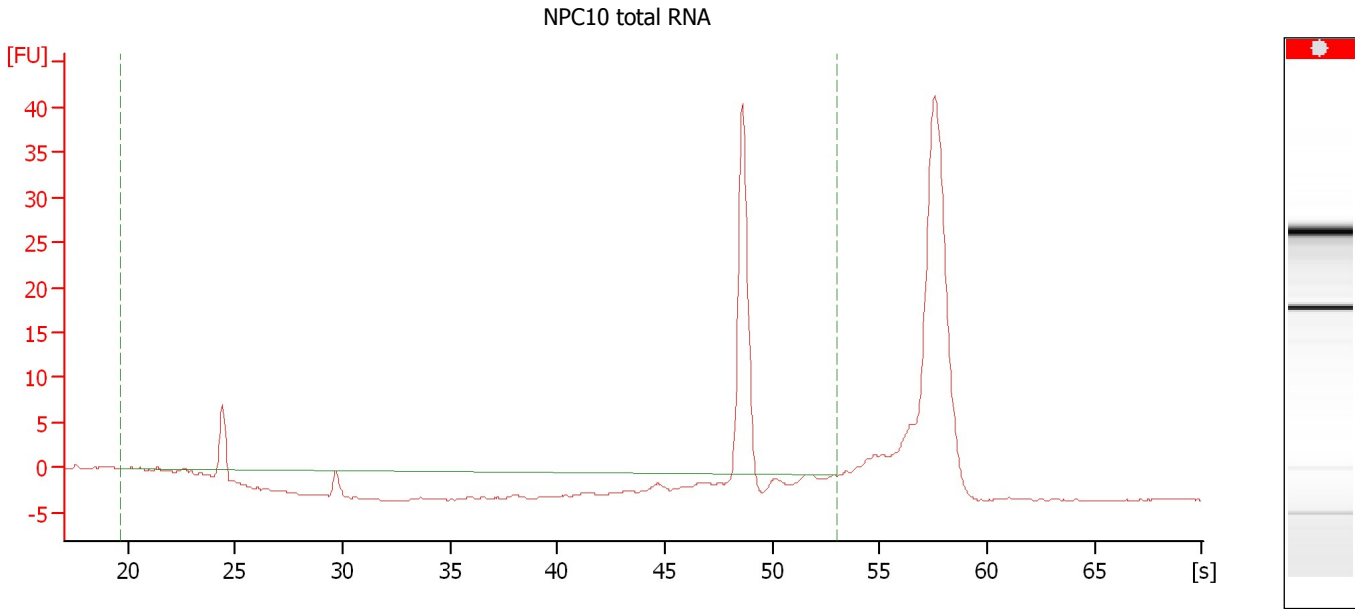
Fragment table for sample 3 : NPC1 total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 0.3 | 0.2 |
| 28S | 0 | 0 | 2.2 | 1.2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : NPC10 total RNA

End Analysis Time Range [s] : 53

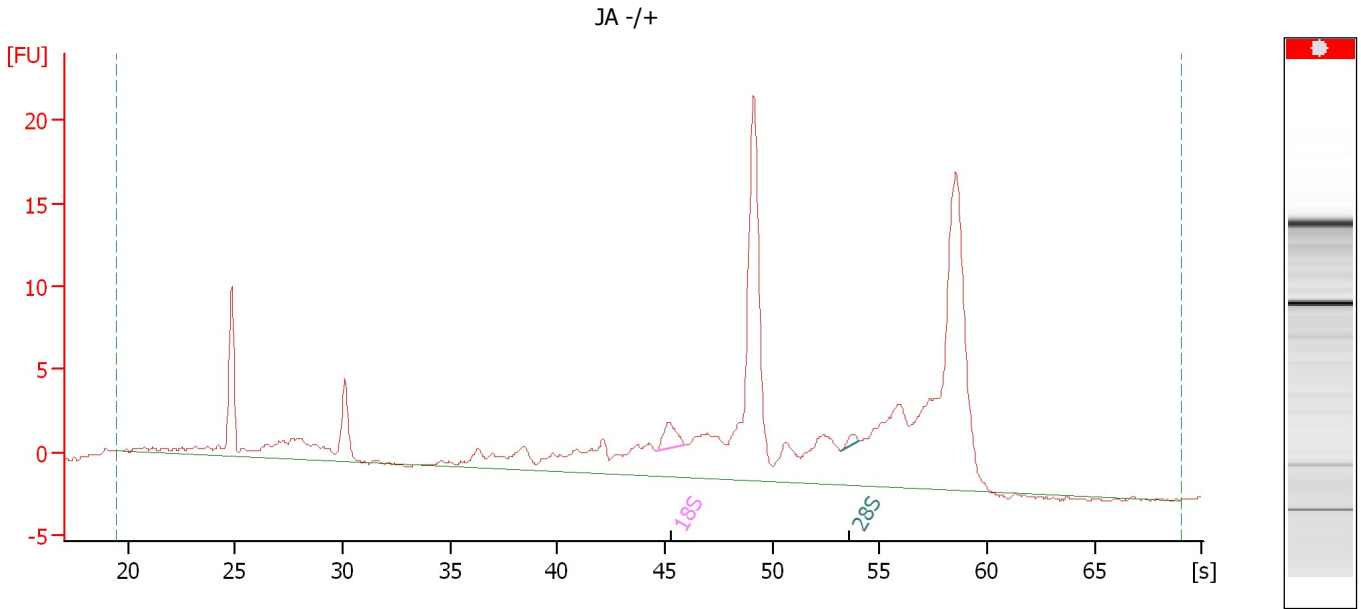
Overall Results for sample 4 : NPC10 total RNA

| | | | |
|-------------------------|-----------|-----------------------------|--------------------------|
| RNA Area: | 50.9 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 696 pg/μl | Result Flagging Color: | <input type="checkbox"/> |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JA -/+

RNA Area: 184.3 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 2,521 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN N/A

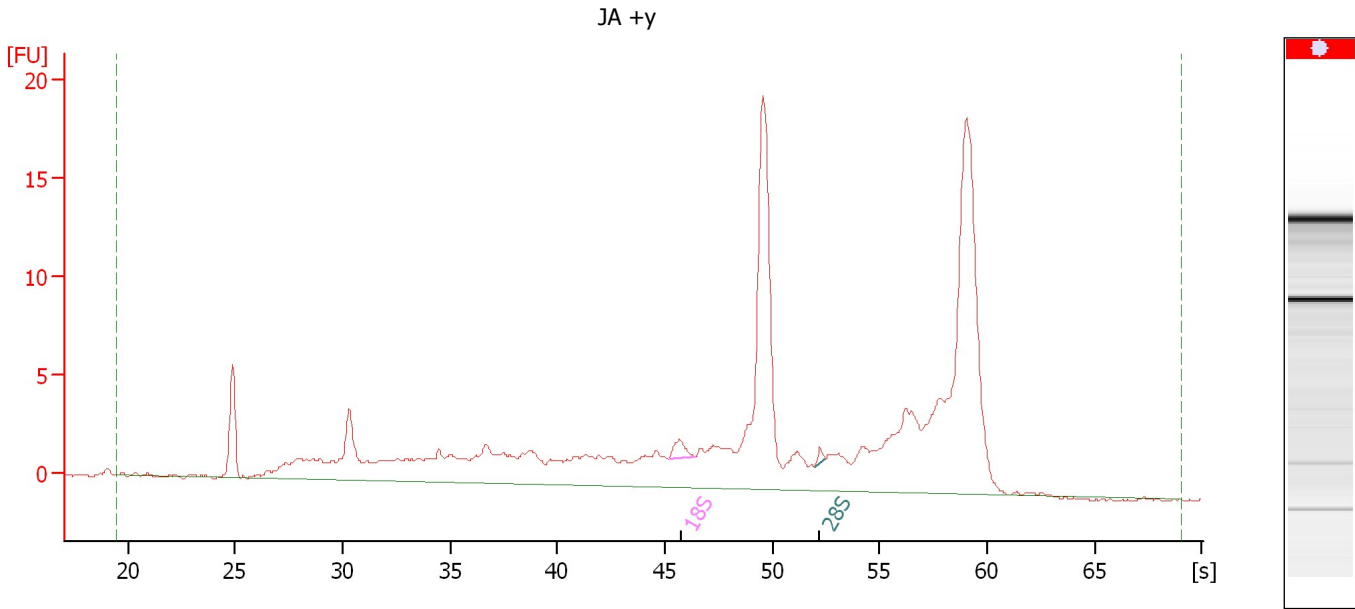
Fragment table for sample 5 : JA -/+

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 2.4 | 1.3 |
| 28S | 0 | 0 | 0.6 | 0.3 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JA +y

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 185.3 | RNA Integrity Number (RIN): | 2.4 (B.02.08) |
| RNA Concentration: | 2,534 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.3 | Result Flagging Label: | RIN: 2.40 |

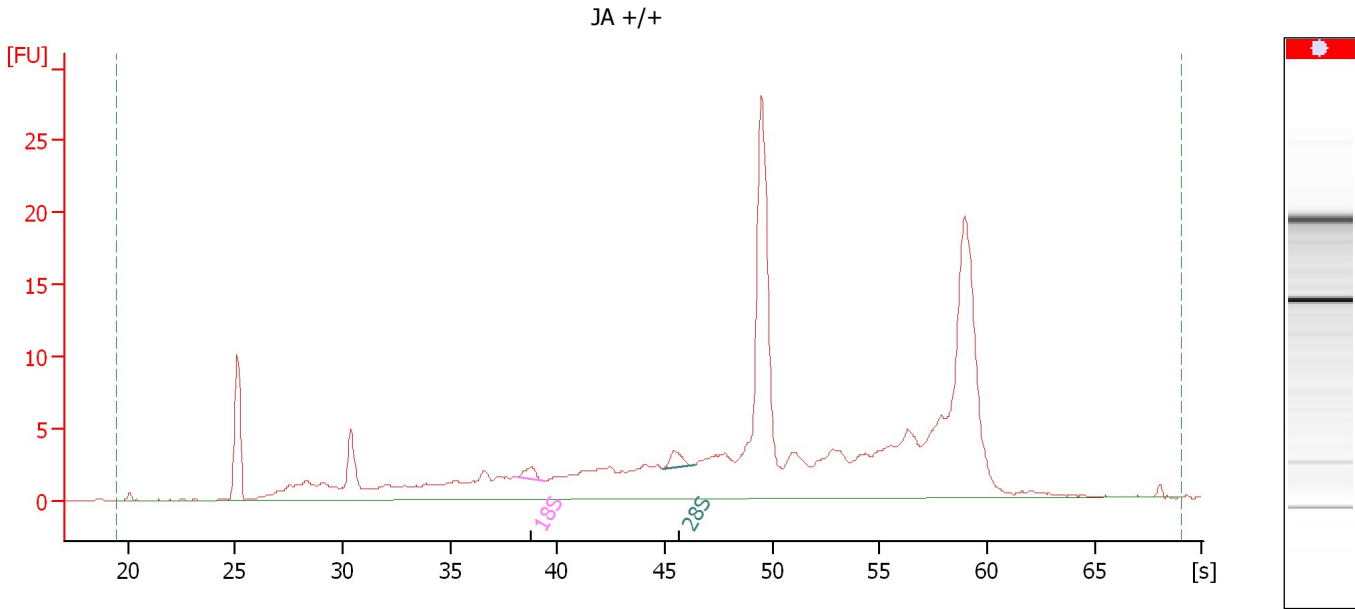
Fragment table for sample 6 : JA +y

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 1.3 | 0.7 |
| 28S | 0 | 0 | 0.3 | 0.2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JA +/+

RNA Area: 232.5 RNA Integrity Number (RIN): 2.5 (B.02.08)
RNA Concentration: 3,180 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 2.50

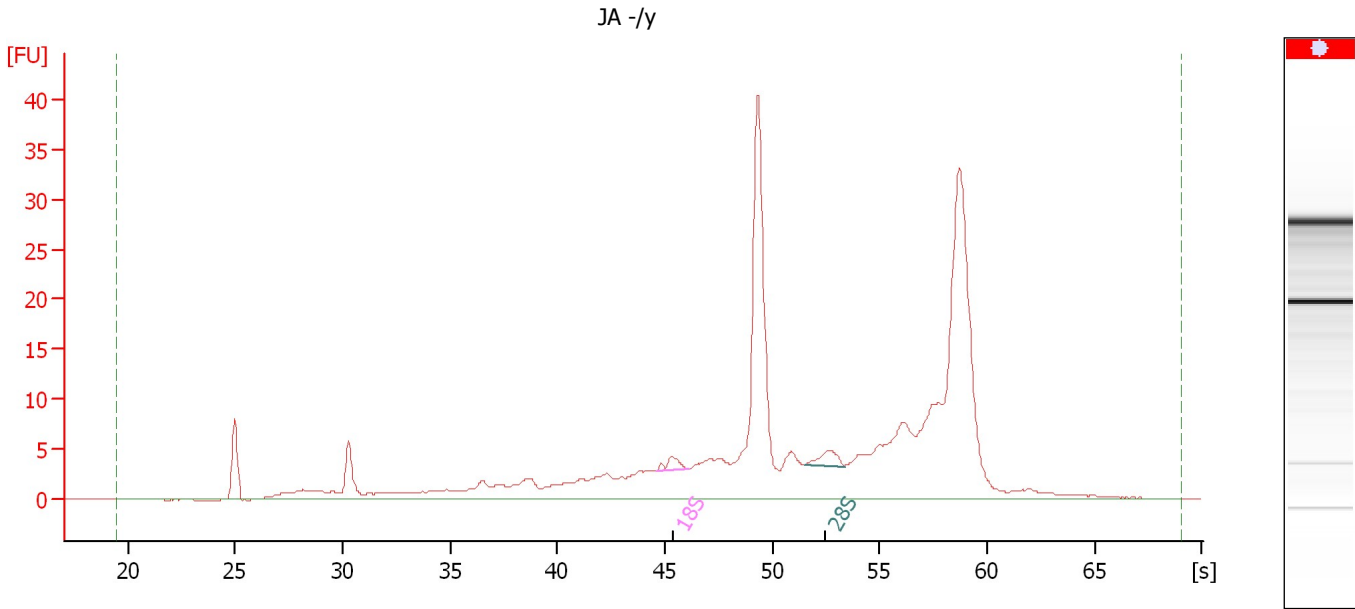
Fragment table for sample 7 : JA +/+

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 1.4 | 0.6 |
| 28S | 0 | 0 | 1.7 | 0.7 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
 Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JA -/y

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 297.4 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 4,067 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.3 | Result Flagging Label: | RIN: 2.50 |

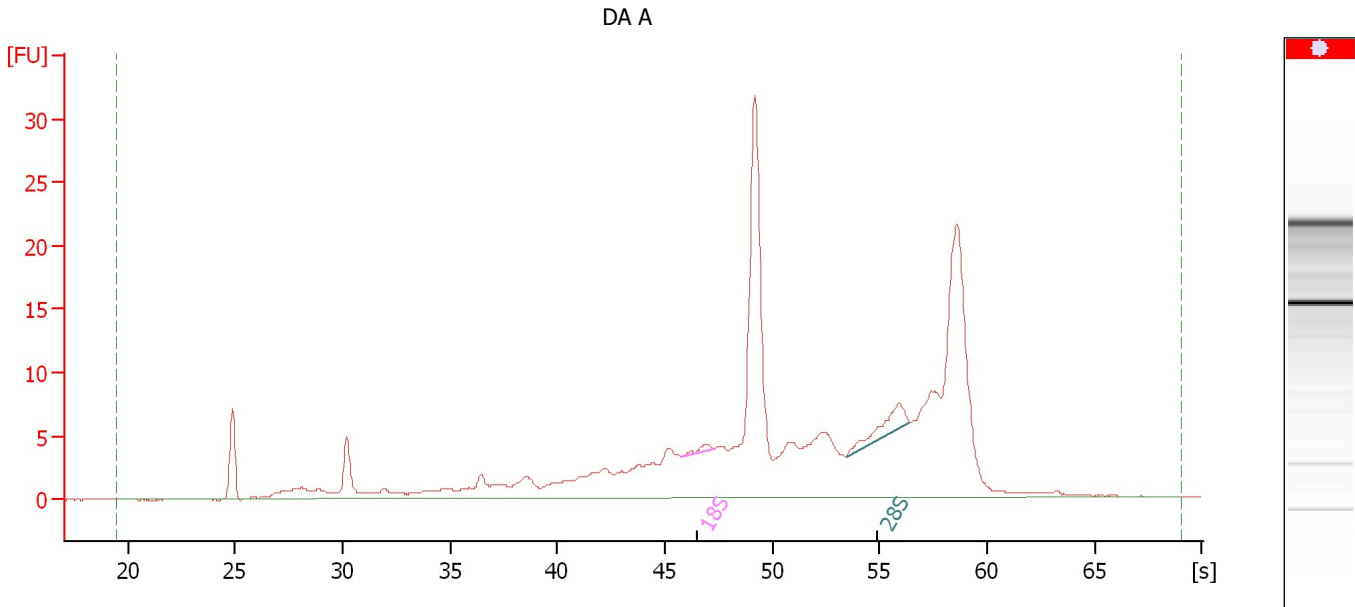
Fragment table for sample 8 : JA -/y

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 2.0 | 0.7 |
| 28S | 0 | 0 | 2.7 | 0.9 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
 Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : DA A

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 255.8 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 3,498 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 6.8 | Result Flagging Label: | RIN: 2.50 |

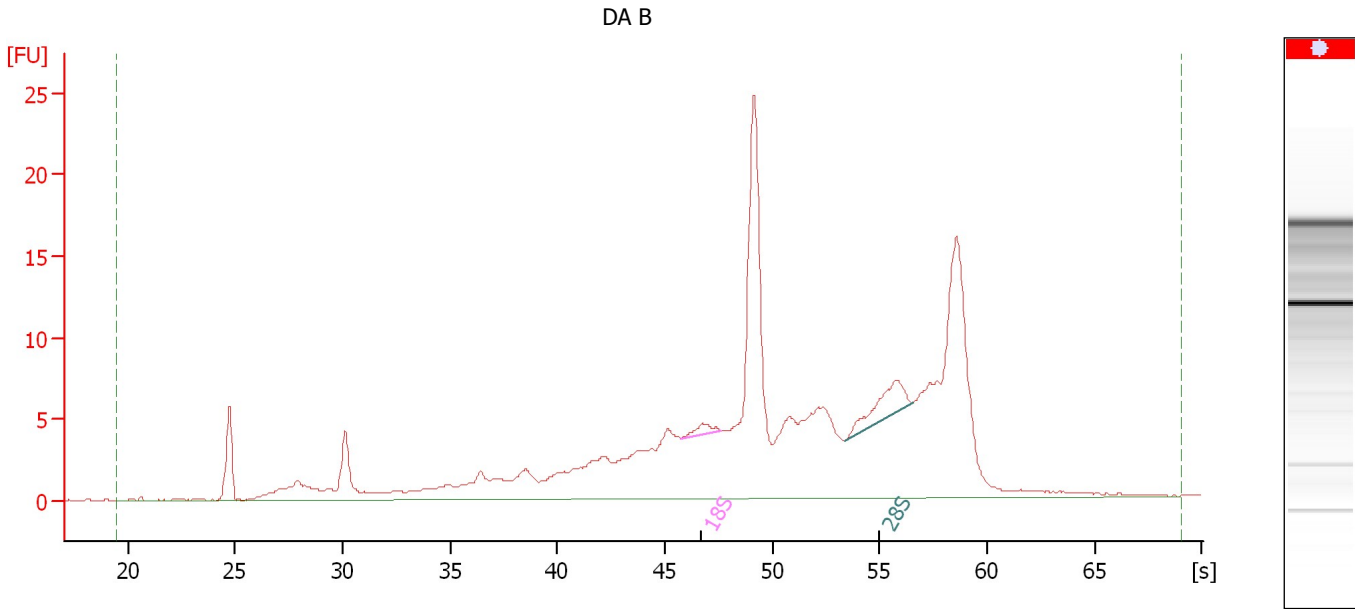
Fragment table for sample 9 : DA A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 0.7 | 0.3 |
| 28S | 0 | 0 | 4.7 | 1.8 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
 Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : DA B

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 253.7 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 3,469 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 4.7 | Result Flagging Label: | RIN: 2.50 |

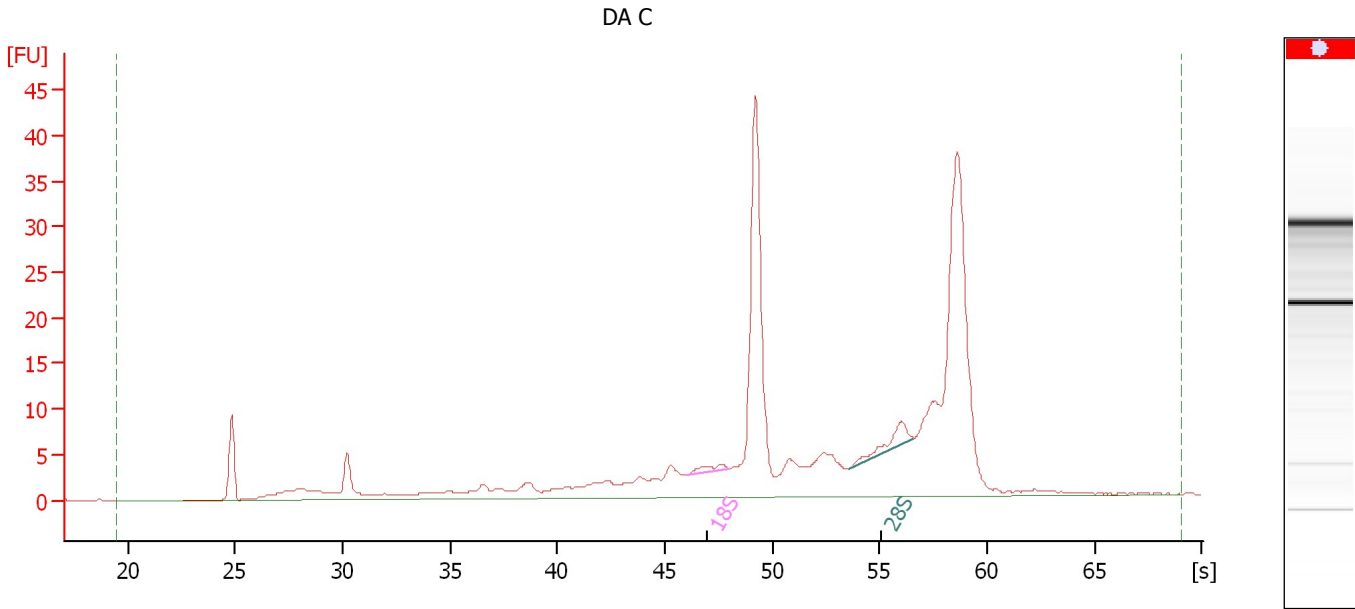
Fragment table for sample 10 : DA B

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 1.2 | 0.5 |
| 28S | 0 | 0 | 5.6 | 2.2 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
 Modified: 4/9/2015 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : DA C

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 281.4 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 3,848 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 2.7 | Result Flagging Label: | RIN: 2.50 |

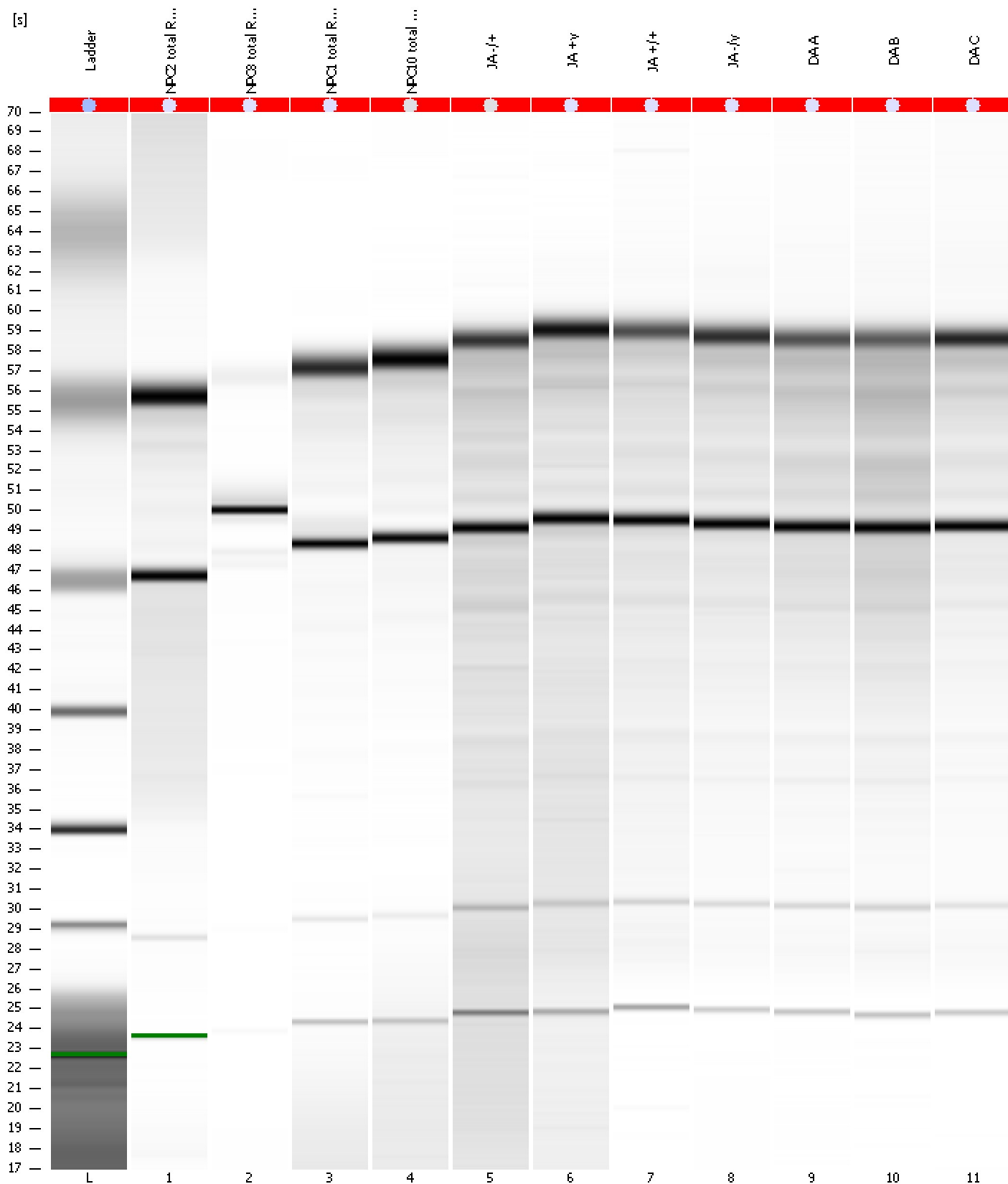
Fragment table for sample 11 : DA C

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 0 | 0 | 1.7 | 0.6 |
| 28S | 0 | 0 | 4.7 | 1.7 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
Modified: 4/9/2015 4:09:22 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad

Created: 4/9/2015 3:24:20 PM
 Modified: 4/9/2015 4:09:22 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 | | 4/9/2015 3:47:16 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-09\2015-04-09_003.xad) | | Instrument | Run | | 4/9/2015 3:24:25 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/9/2015 3:24:25 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/9/2015 3:24:25 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/9/2015 3:24:25 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/9/2015 3:24:25 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/9/2015 3:24:25 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/9/2015 3:24:25 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |