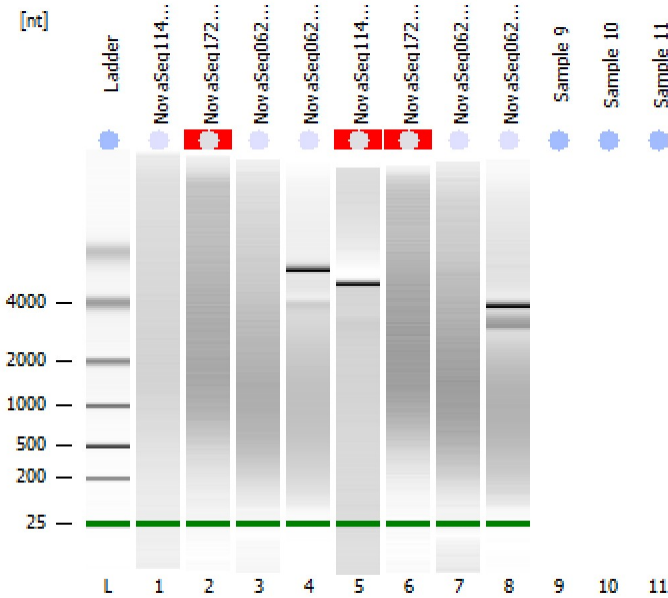


Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
 Modified: 2/3/2020 1:42:29 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
 Serial#: DE34903152 Type: G2938C

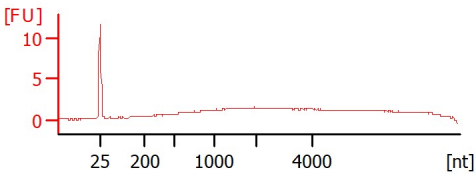
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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.

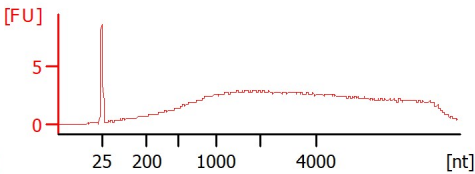
Chip Information:

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

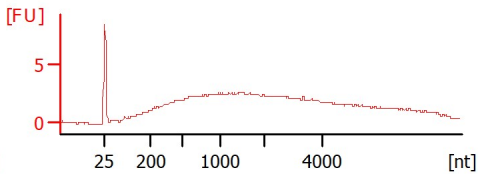
NovaSeq114-E1 test BC no soni
 RIN: 1.20



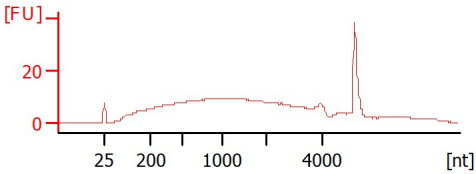
NovaSeq172-17 test BC no soni
 RIN N/A



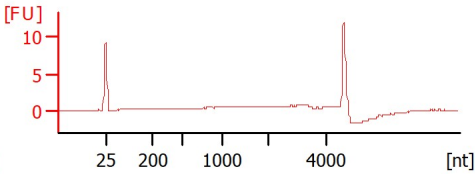
NovaSeq062-52 test BC no soni
 50ng
 RIN: 2.30



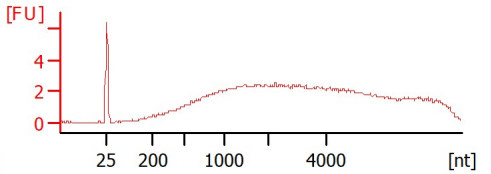
NovaSeq062-52 test BC no soni
 200ng
 RIN: 2.20



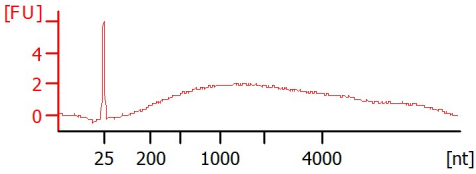
NovaSeq114-E1 test BC no soni
 RIN N/A



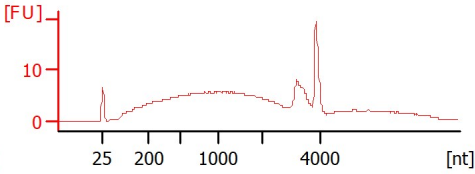
NovaSeq172-17 test BC no soni
 RIN N/A



NovaSeq062-52 test BC no soni
 50ng
 RIN: 2.30



NovaSeq062-52 test BC no soni
 200ng
 RIN: 2.30



Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
 Modified: 2/3/2020 1:42:29 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------------------------|----------------|--------|-------------------|--------------|
| NovaSeq114-E1 test BC no soni | | ✓ | RIN: 1.20 | |
| NovaSeq172-17 test BC no soni | | ✓ | RIN N/A | |
| NovaSeq062-52 test BC no soni | 50ng | ✓ | RIN: 2.30 | |
| NovaSeq062-52 test BC no soni | 200ng | ✓ | RIN: 2.20 | |
| NovaSeq114-E1 test BC no soni | | ✓ | RIN N/A | |
| NovaSeq172-17 test BC no soni | | ✓ | RIN N/A | |
| NovaSeq062-52 test BC no soni | 50ng | ✓ | RIN: 2.30 | |
| NovaSeq062-52 test BC no soni | 200ng | ✓ | RIN: 2.30 | |
| Sample 9 | | | | |
| Sample 10 | | | | |
| Sample 11 | | | | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
 Modified: 2/3/2020 1:42:29 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

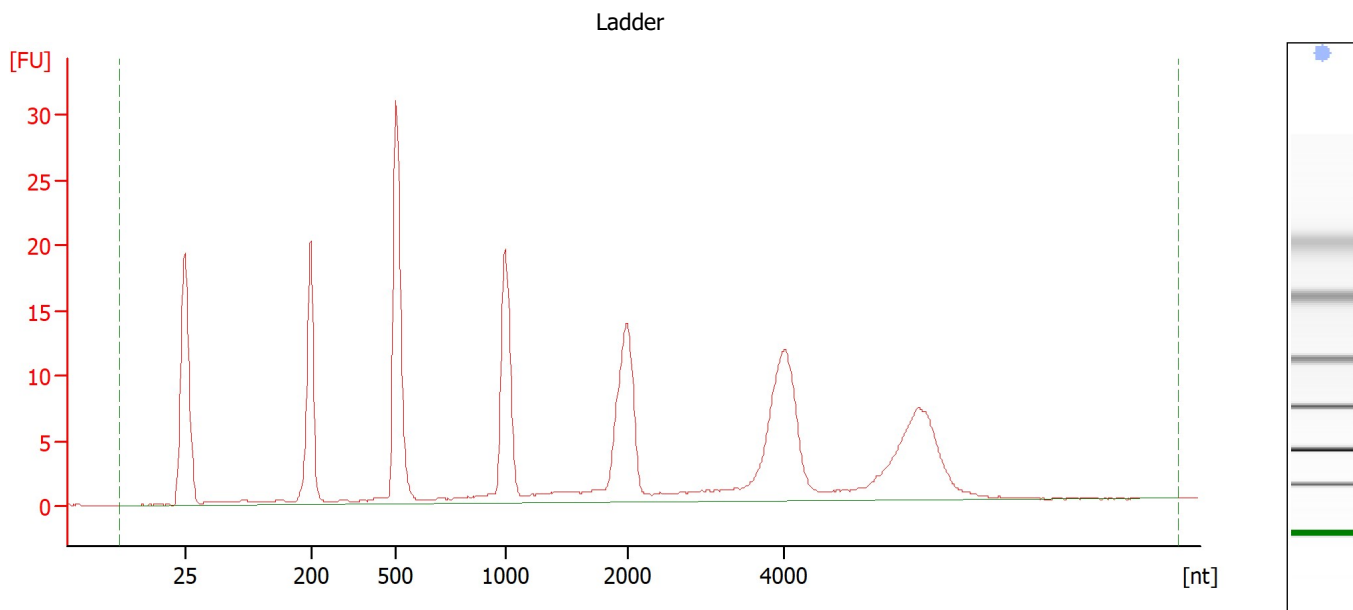
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary



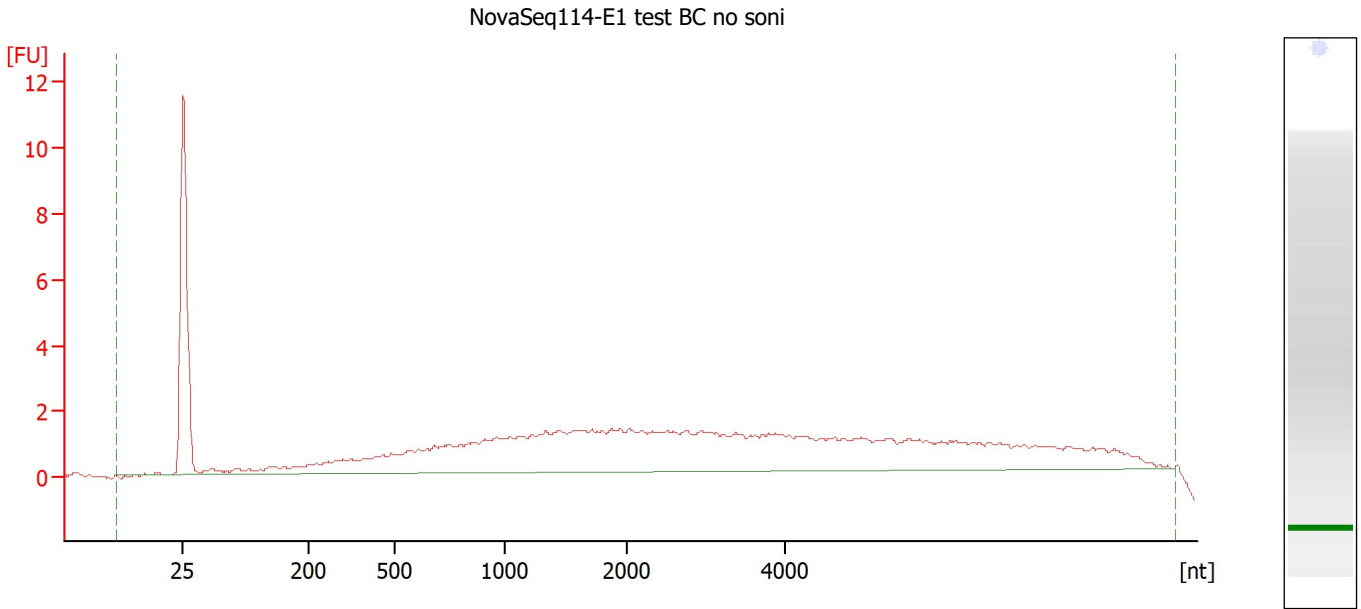
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 218.3 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary Continued ...



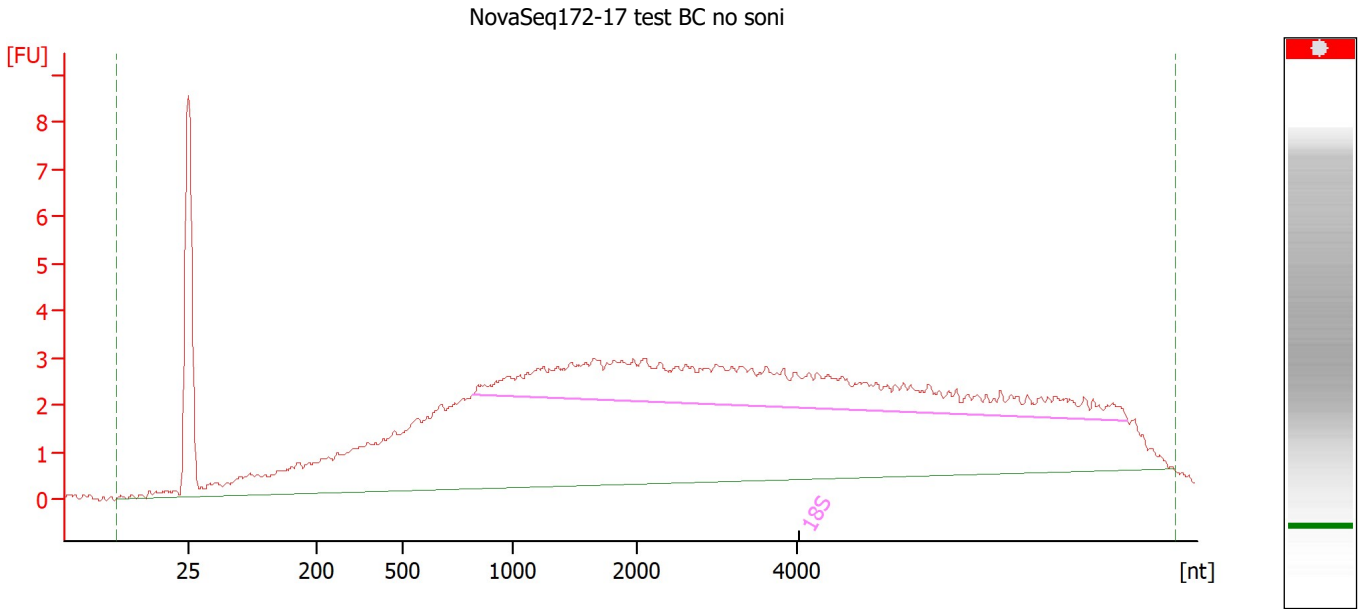
Overall Results for sample 1 : NovaSeq114-E1 test BC no soni

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 79.5 | RNA Integrity Number (RIN): | 1.2 (B.02.10) |
| RNA Concentration: | 364 µg/µl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 1.20 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
 Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NovaSeq172-17 test BC no soni

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 170.2 | RNA Integrity Number (RIN): | N/A (B.02.10) |
| RNA Concentration: | 780 µg/µl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

Fragment table for sample 2 : NovaSeq172-17 test BC no soni

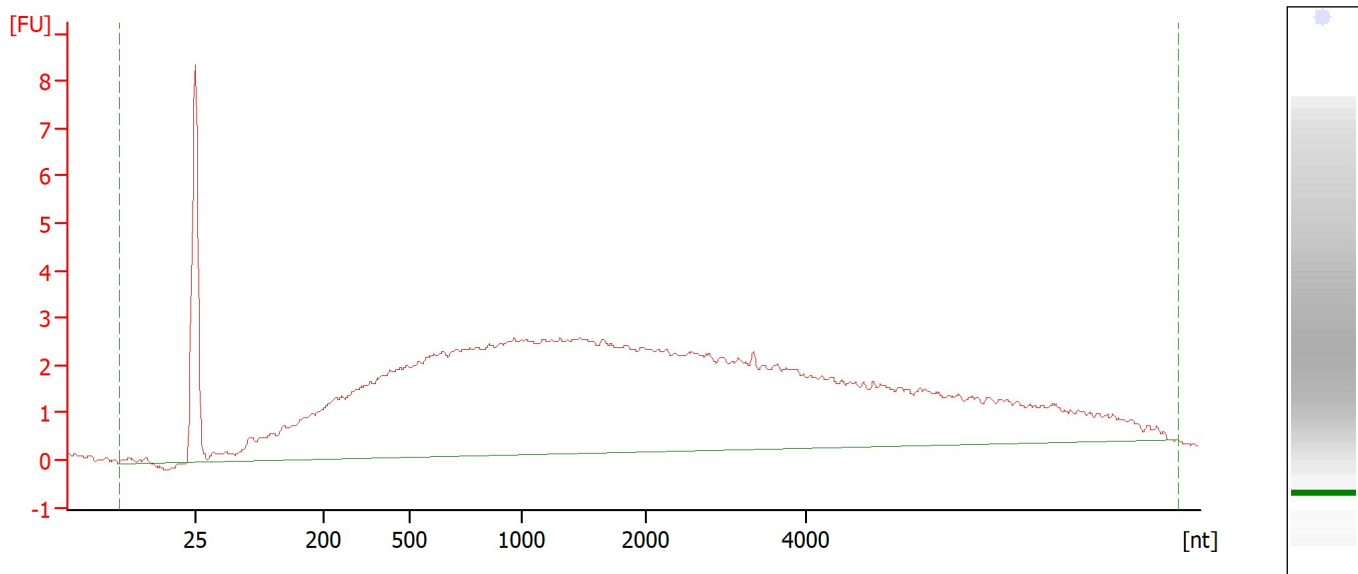
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 816 | 8,169 | 35.3 | 20.7 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
 Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary Continued ...

NovaSeq062-52 test BC no soni [50ng]



Overall Results for sample 3 : NovaSeq062-52 test BC no soni

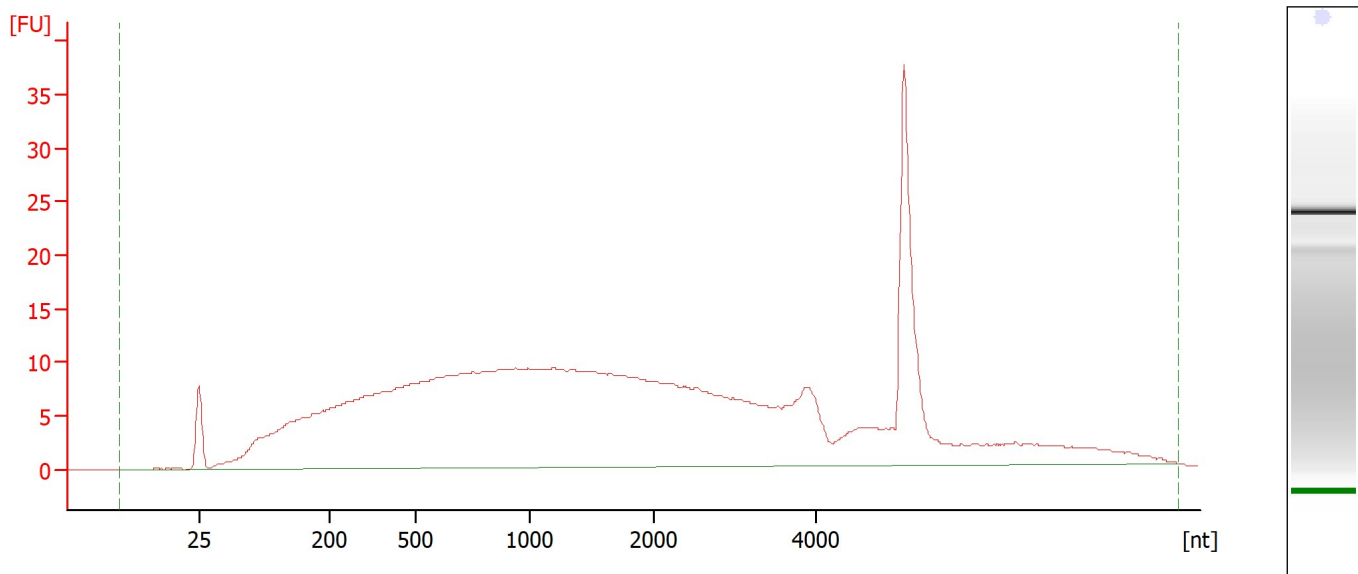
| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 152.5 | RNA Integrity Number (RIN): | 2.3 (B.02.10) |
| RNA Concentration: | 699 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.30 |

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary Continued ...

NovaSeq062-52 test BC no soni [200ng]



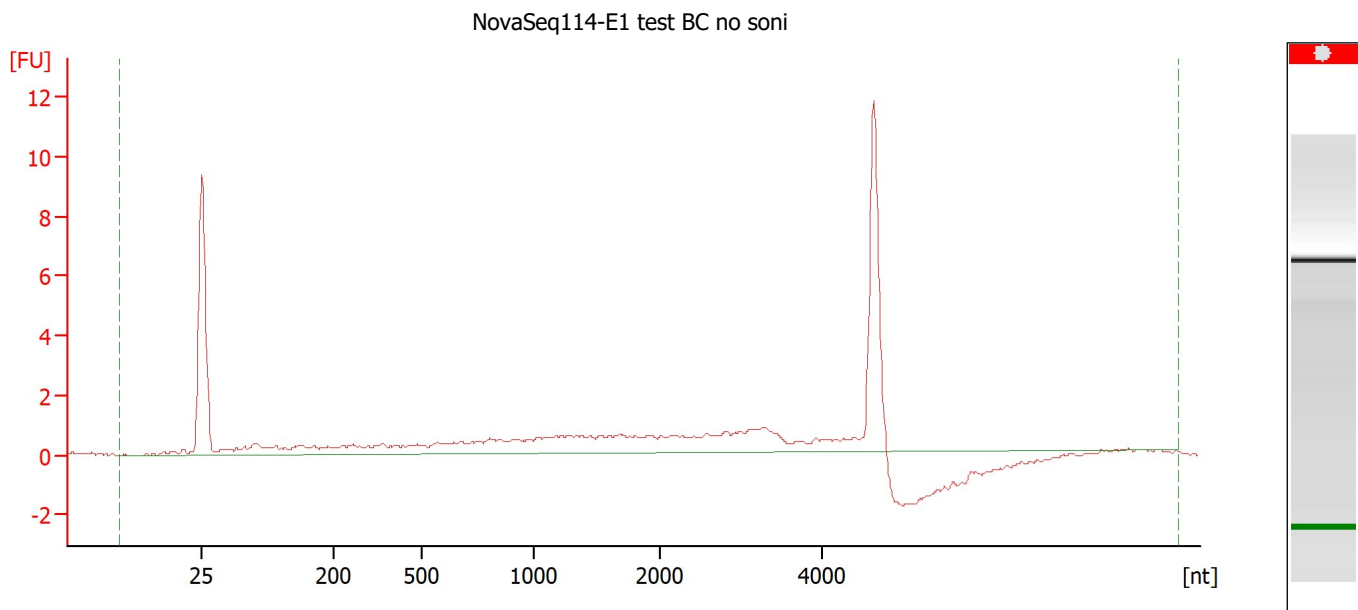
Overall Results for sample 4 : NovaSeq062-52 test BC no soni

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 595.8 | RNA Integrity Number (RIN): | 2.2 (B.02.10) |
| RNA Concentration: | 2,729 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.20 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
 Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : NovaSeq114-E1 test BC no soni

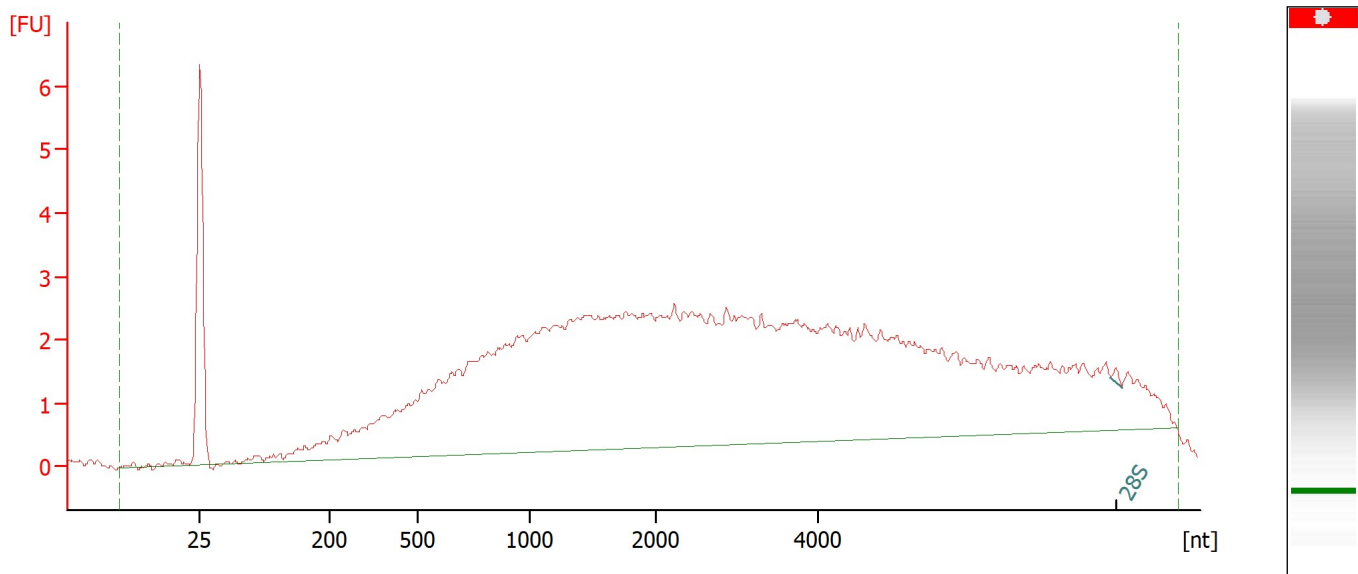
| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 42.9 | RNA Integrity Number (RIN): | N/A (B.02.10) |
| RNA Concentration: | 197 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
 Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary Continued ...

NovaSeq172-17 test BC no soni



Overall Results for sample 6 : NovaSeq172-17 test BC no soni

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 123.3 | RNA Integrity Number (RIN): | N/A (B.02.10) |
| RNA Concentration: | 565 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

Fragment table for sample 6 : NovaSeq172-17 test BC no soni

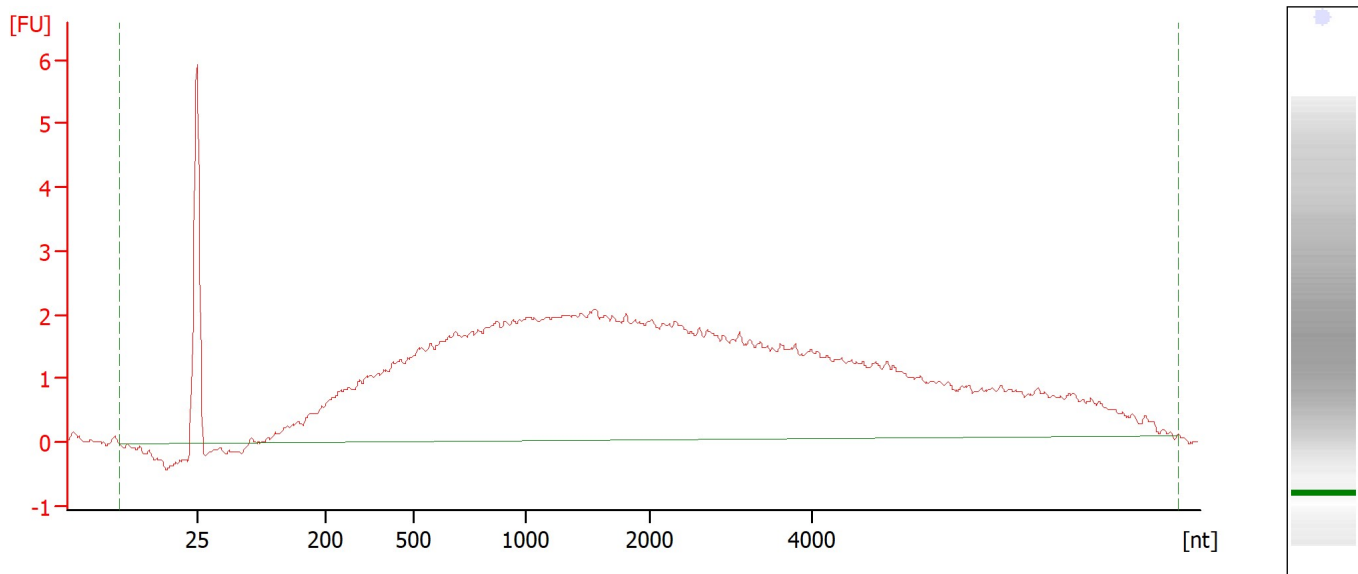
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 28S | 7,610 | 7,742 | 0.1 | 0.1 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
 Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary Continued ...

NovaSeq062-52 test BC no soni [50ng]



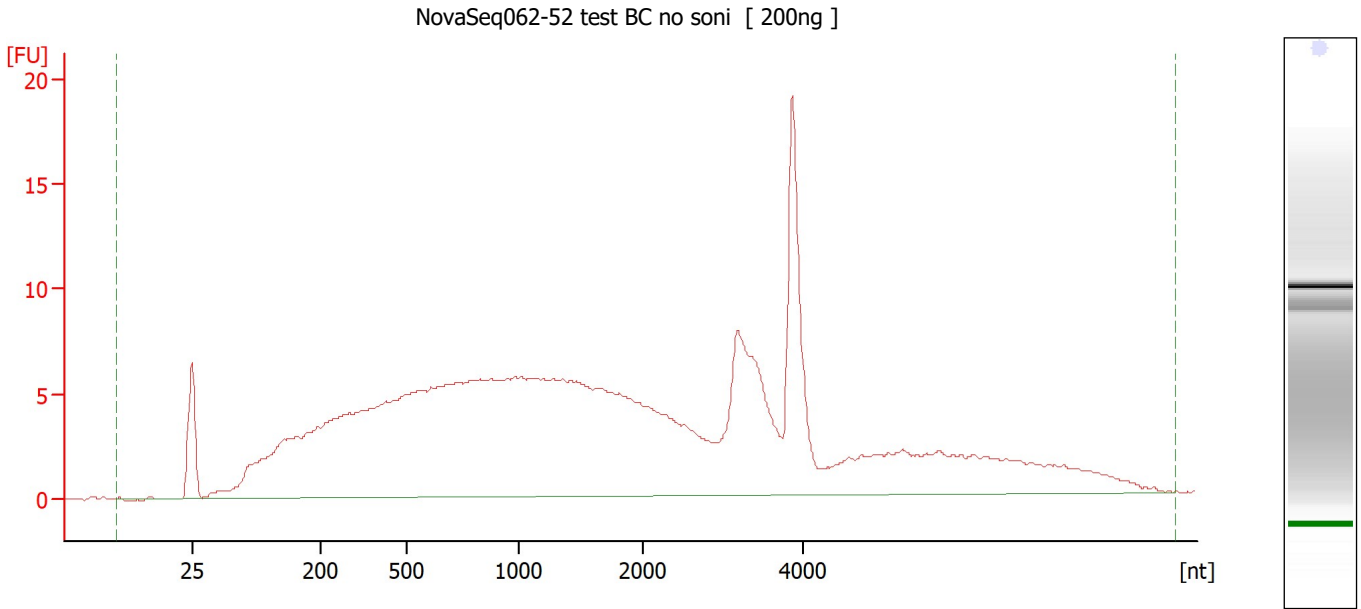
Overall Results for sample 7 : NovaSeq062-52 test BC no soni

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 114.7 | RNA Integrity Number (RIN): | 2.3 (B.02.10) |
| RNA Concentration: | 525 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.30 |

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
Modified: 2/3/2020 1:42:29 PM

Electropherogram Summary Continued ...



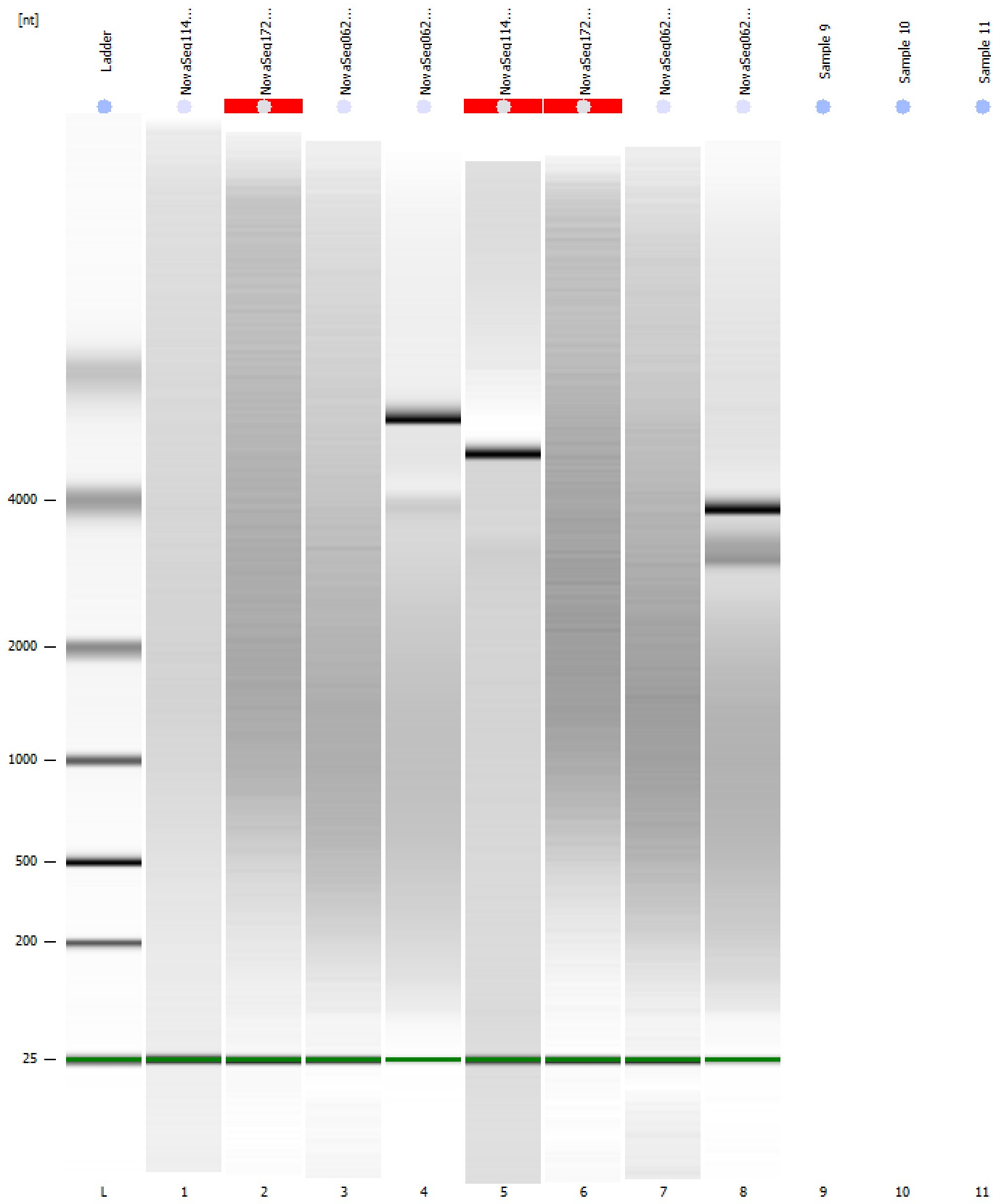
Overall Results for sample 8 : NovaSeq062-52 test BC no soni

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 363.1 | RNA Integrity Number (RIN): | 2.3 (B.02.10) |
| RNA Concentration: | 1,663 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.30 |

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
Modified: 2/3/2020 1:42:29 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad

Created: 2/3/2020 1:21:29 PM
Modified: 2/3/2020 1:42:29 PM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico Created: 2/3/2020 1:21:29 PM
 Data Path: Z:\...03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad Modified: 2/3/2020 1:42:29 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|------------------------|-------------------------------------|---------|---------------------|
| Run ended on port 1 (Number of wells acquired: 9) | | Instrument | Run | | 2/3/2020 1:40:07 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: Z:\XADs\2020-02-03\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-03_001.xad) | | Instrument | Run | | 2/3/2020 1:21:35 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C | | Instrument | Run | | 2/3/2020 1:21:35 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name : | | Instrument | Run | | 2/3/2020 1:21:35 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 2/3/2020 1:21:35 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152 | | Instrument | Run | | 2/3/2020 1:21:35 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069 | | Instrument | Run | | 2/3/2020 1:21:35 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode | | Instrument | Run | | 2/3/2020 1:21:34 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |