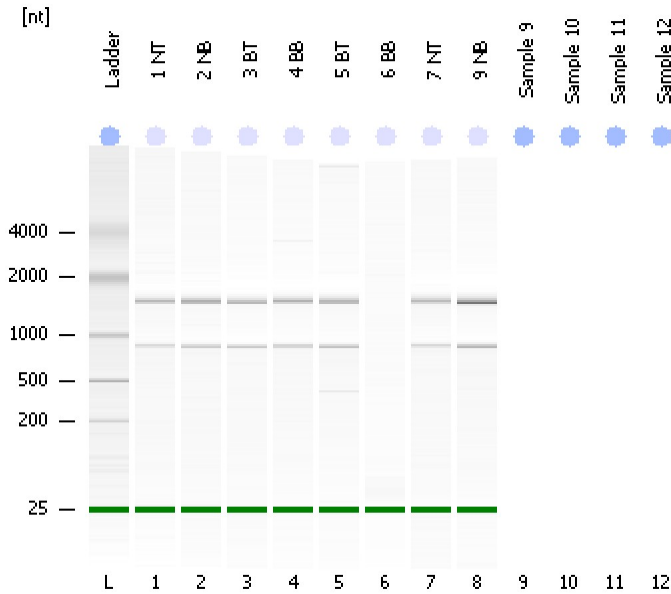


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 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\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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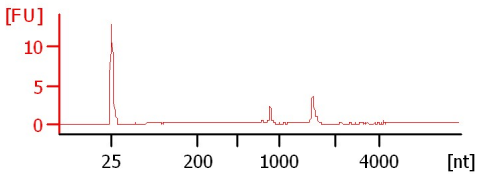
Chip Information:

Chip Lot #:

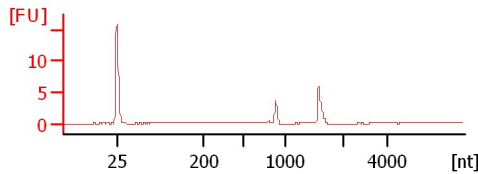
Reagent Kit Lot #:

Chip Comments:

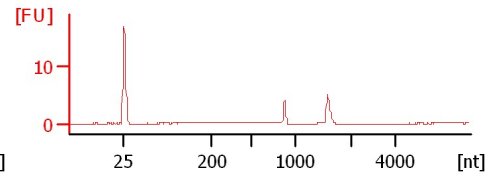
1 NT
HiSeq_090_Total RNA QC
RIN: 7.60



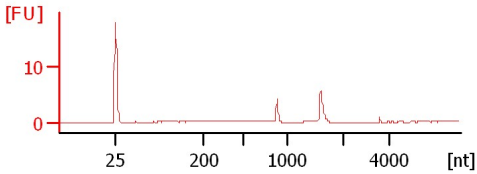
2 NB
HiSeq_090_Total RNA QC
RIN: 7.80



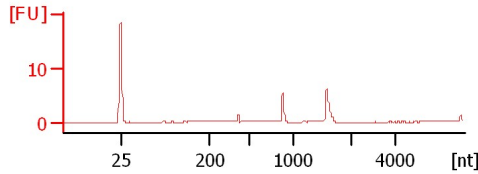
3 BT
HiSeq_090_Total RNA QC
RIN: 7.70



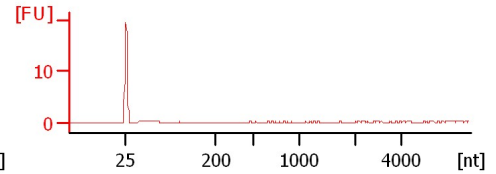
4 BB
HiSeq_090_Total RNA QC
RIN: 7.70



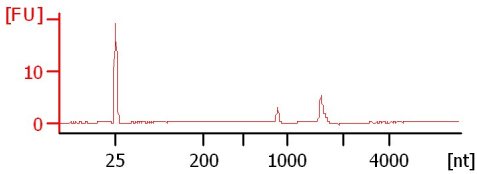
5 BT
HiSeq_090_Total RNA QC
RIN: 7.80



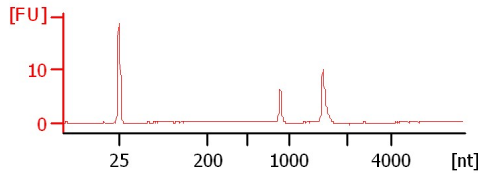
6 BB
HiSeq_090_Total RNA QC
RIN: 1



7 NT
HiSeq_090_Total RNA QC
RIN: 7.70



9 NB
HiSeq_090_Total RNA QC
RIN: 8



Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|------------------------|--------|-------------------|--------------|
| 1 NT | HiSeq_090_Total RNA QC | ✓ | RIN: 7.60 | |
| 2 NB | HiSeq_090_Total RNA QC | ✓ | RIN: 7.80 | |
| 3 BT | HiSeq_090_Total RNA QC | ✓ | RIN: 7.70 | |
| 4 BB | HiSeq_090_Total RNA QC | ✓ | RIN: 7.70 | |
| 5 BT | HiSeq_090_Total RNA QC | ✓ | RIN: 7.80 | |
| 6 BB | HiSeq_090_Total RNA QC | ✓ | RIN:1 | |
| 7 NT | HiSeq_090_Total RNA QC | ✓ | RIN: 7.70 | |
| 9 NB | HiSeq_090_Total RNA QC | ✓ | RIN:8 | |
| Sample 9 | | | All Other Samples | |
| Sample 10 | | | All Other Samples | |
| Sample 11 | | | All Other Samples | |
| Sample 12 | | | All Other Samples | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

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] : 0.2
Area Threshold : 0.1
Width Threshold [s] : 0.2
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

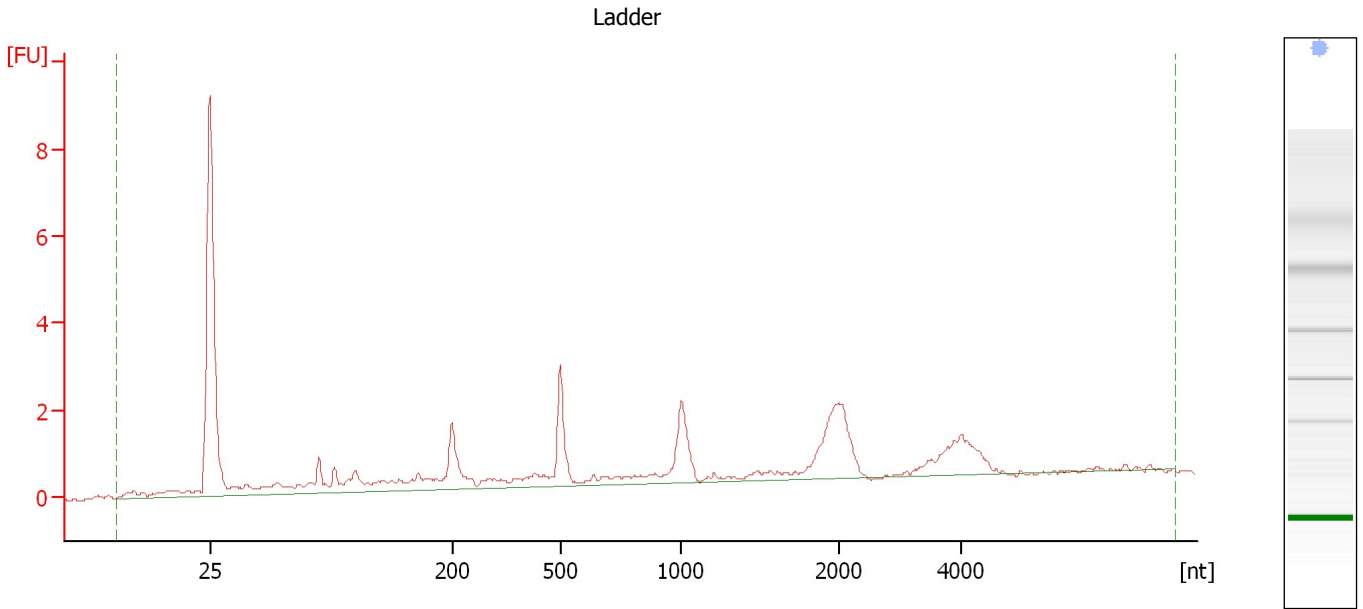
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary



Overall Results for Ladder

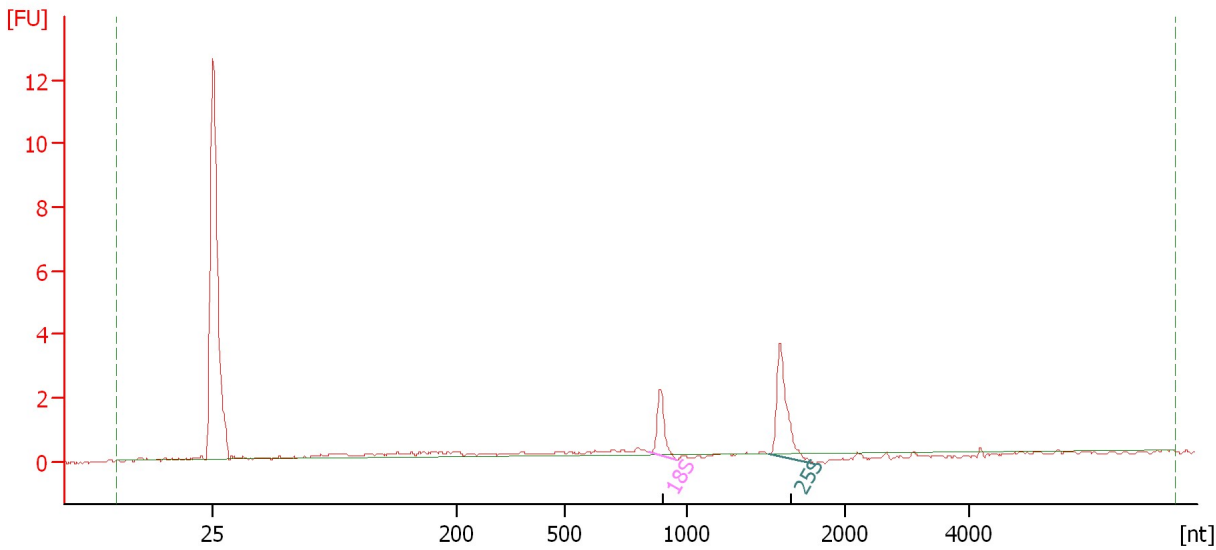
| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 29.2 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary Continued ...

1 NT [HiSeq_090_Total RNA QC]



Overall Results for sample 1 : 1 NT

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 11.8 | RNA Integrity Number (RIN): | 7.6 (B.02.08) |
| RNA Concentration: | 61 ng/μl | Result Flagging Color: | |
| rRNA Ratio [25s / 18s]: | 2.3 | Result Flagging Label: | RIN: 7.60 |

Fragment table for sample 1 : 1 NT

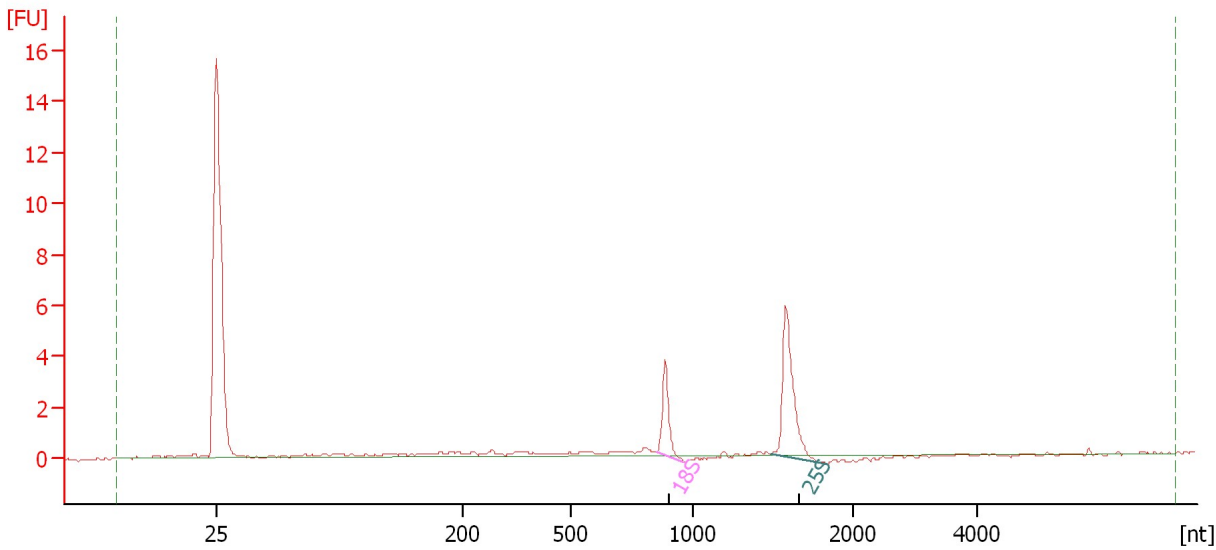
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 838 | 957 | 1.7 | 14.6 |
| 25S | 1,515 | 1,805 | 4.0 | 33.8 |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary Continued ...

2 NB [HiSeq_090_Total RNA QC]



Overall Results for sample 2 : 2 NB

RNA Area: 13.6 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 70 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.3 Result Flagging Label: RIN: 7.80

Fragment table for sample 2 : 2 NB

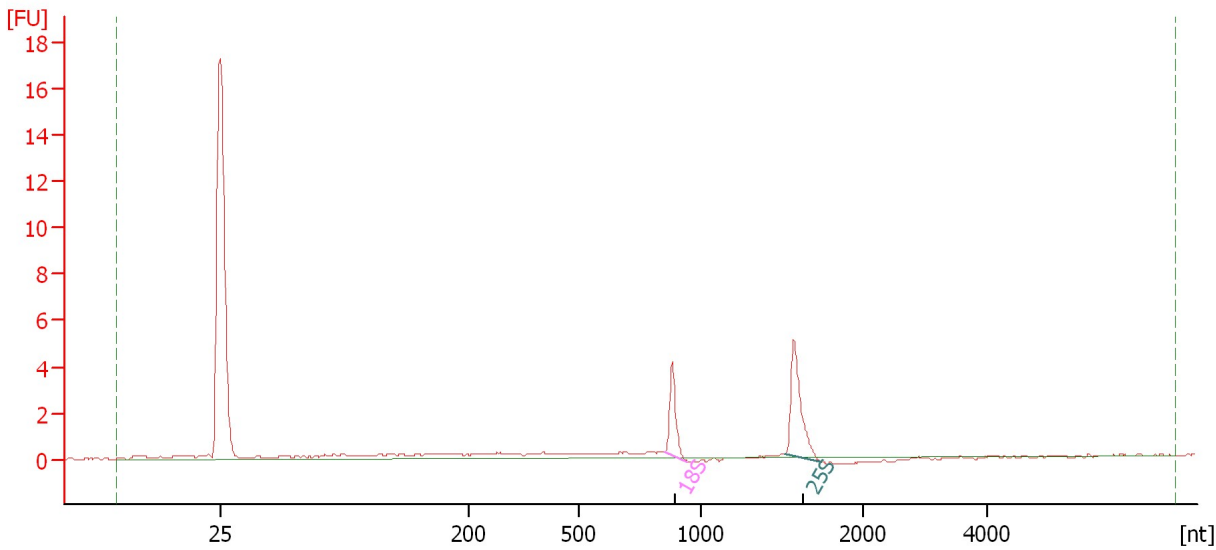
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 849 | 958 | 2.8 | 20.8 |
| 25S | 1,486 | 1,836 | 6.5 | 47.6 |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary Continued ...

3 BT [HiSeq_090_Total RNA QC]



Overall Results for sample 3 : 3 BT

RNA Area: 18.0 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 92 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 7.70

Fragment table for sample 3 : 3 BT

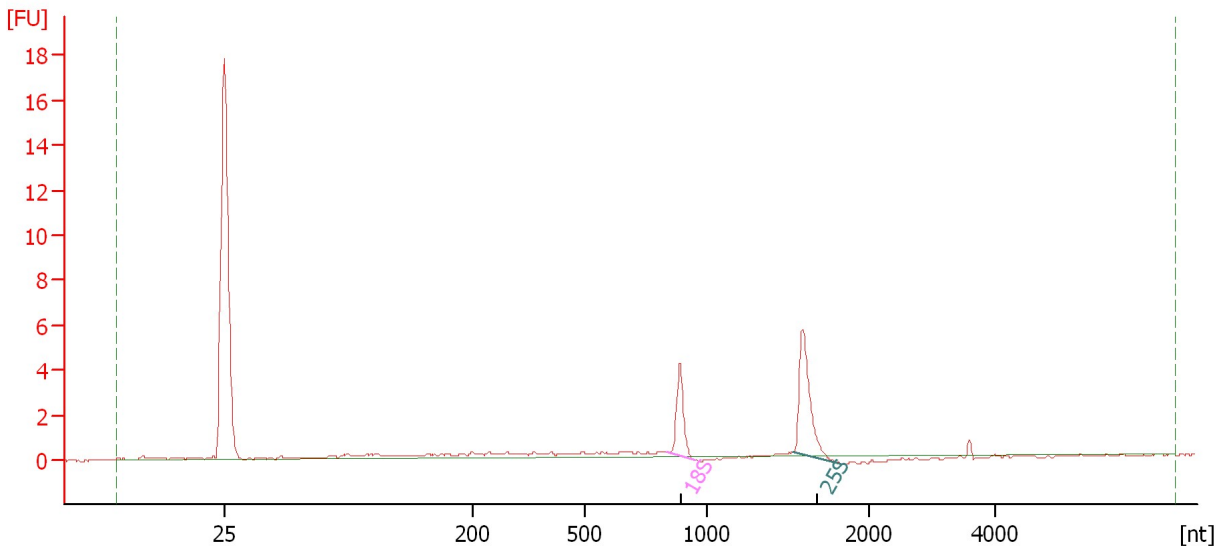
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 851 | 942 | 2.9 | 15.8 |
| 25S | 1,524 | 1,744 | 5.5 | 30.4 |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary Continued ...

4 BB [HiSeq_090_Total RNA QC]



Overall Results for sample 4 : 4 BB

RNA Area: 17.8 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 91 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 7.70

Fragment table for sample 4 : 4 BB

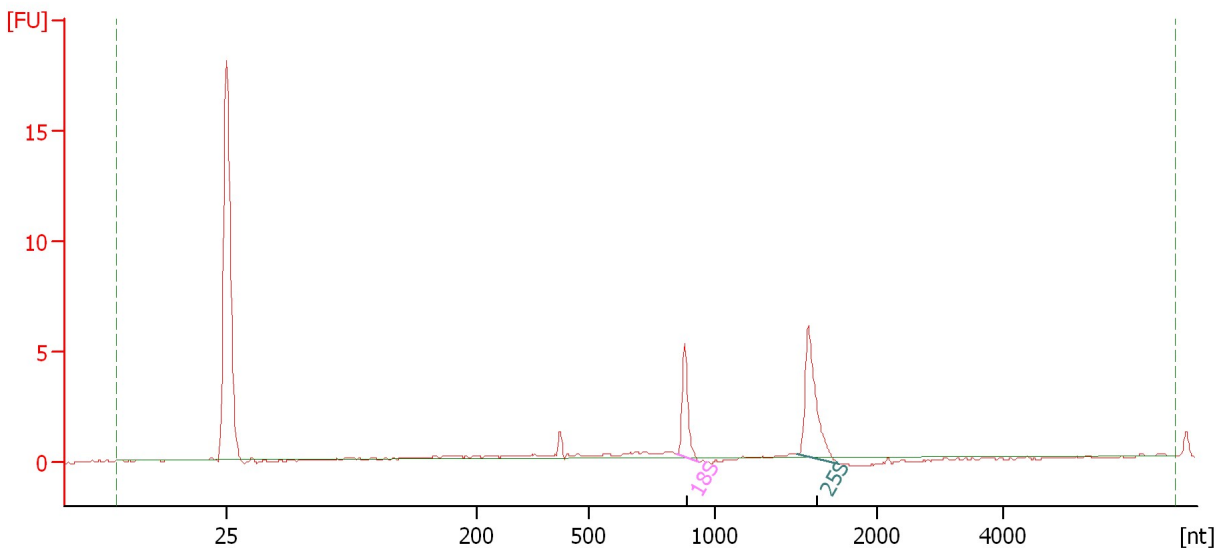
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 836 | 948 | 3.3 | 18.4 |
| 25S | 1,529 | 1,827 | 6.1 | 34.4 |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary Continued ...

5 BT [HiSeq_090_Total RNA QC]



Overall Results for sample 5 : 5 BT

RNA Area: 15.2 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 78 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 7.80

Fragment table for sample 5 : 5 BT

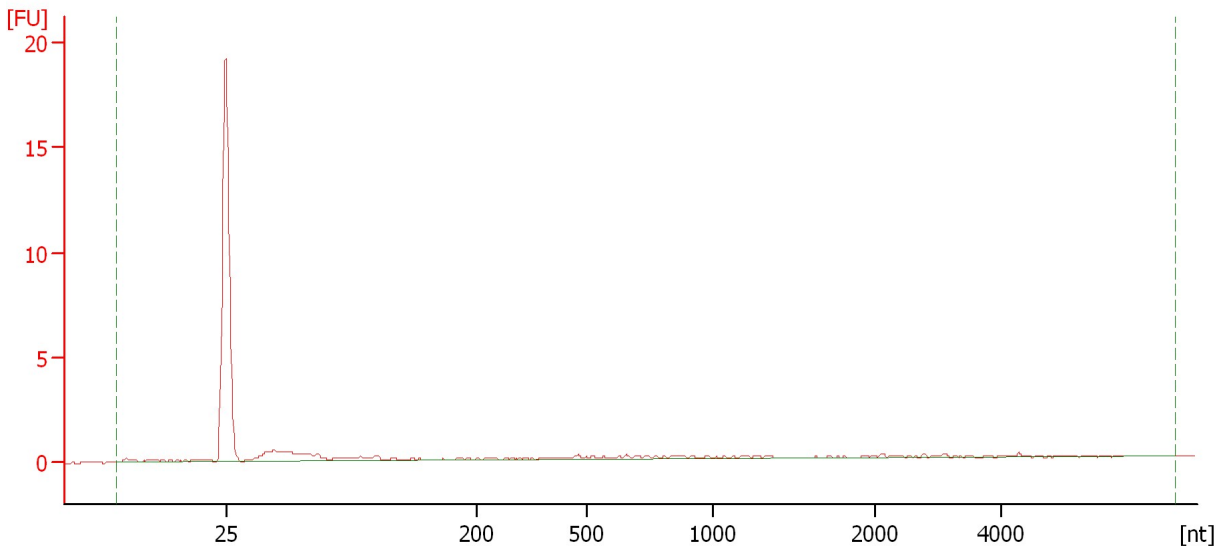
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 851 | 940 | 3.6 | 23.7 |
| 25S | 1,514 | 1,771 | 6.8 | 44.4 |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary Continued ...

6 BB [HiSeq_090_Total RNA QC]



Overall Results for sample 6 : 6 BB

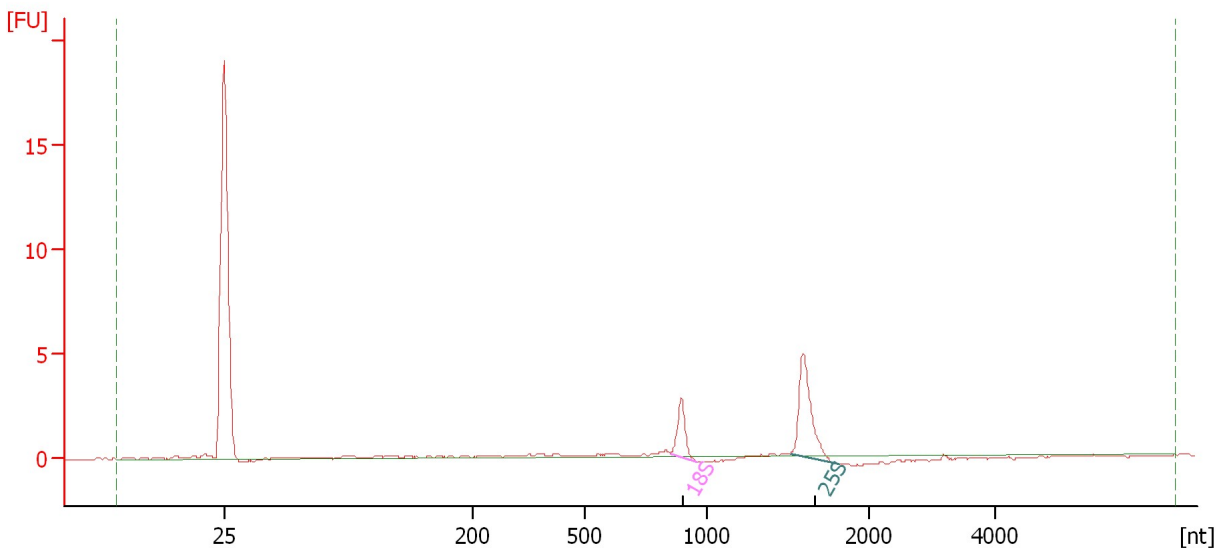
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 9.0 | RNA Integrity Number (RIN): | 1 (B.02.08) |
| RNA Concentration: | 46 ng/μl | Result Flagging Color: | |
| rRNA Ratio [25s / 18s]: | 0.0 | Result Flagging Label: | RIN:1 |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary Continued ...

7 NT [HiSeq_090_Total RNA QC]



Overall Results for sample 7 : 7 NT

RNA Area: 14.3 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 73 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.4 Result Flagging Label: RIN: 7.70

Fragment table for sample 7 : 7 NT

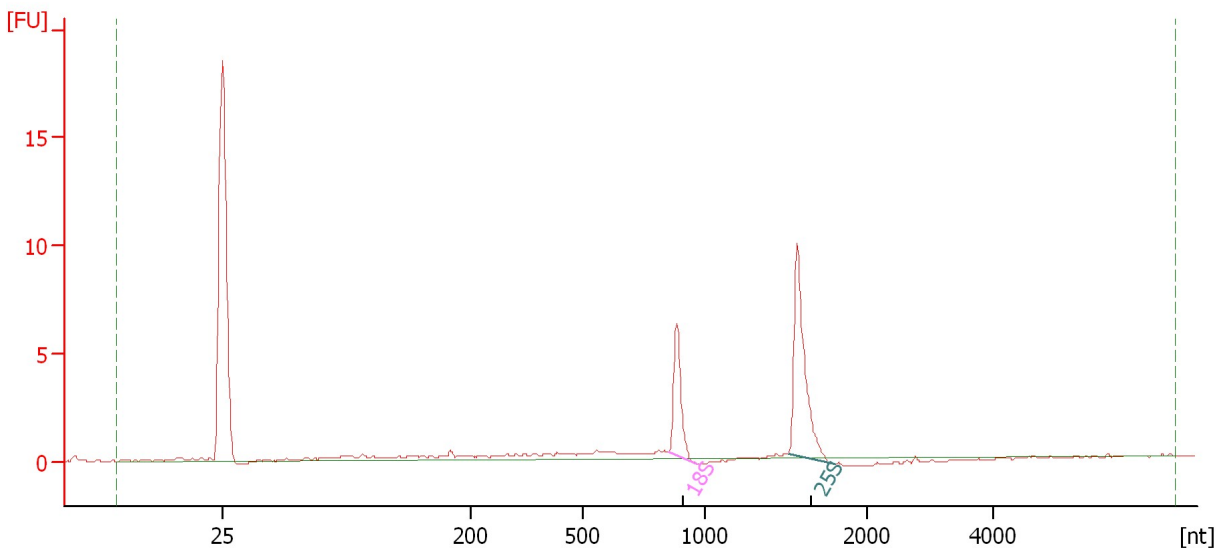
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 849 | 956 | 2.6 | 18.1 |
| 25S | 1,509 | 1,814 | 6.2 | 43.1 |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Electropherogram Summary Continued ...

9 NB [HiSeq_090_Total RNA QC]



Overall Results for sample 8 : 9 NB

RNA Area: 25.7 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 132 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.2 Result Flagging Label: RIN:8

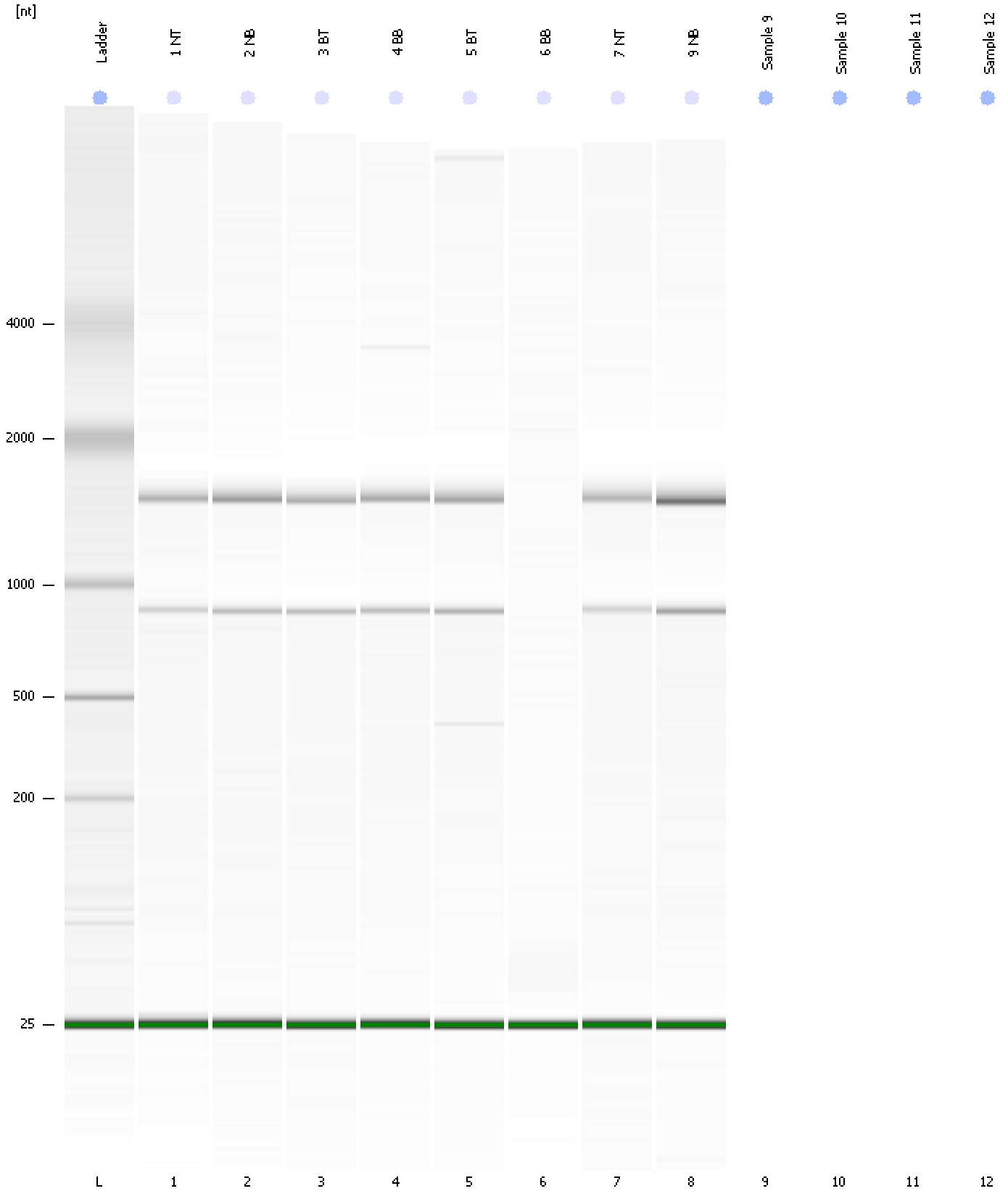
Fragment table for sample 8 : 9 NB

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 848 | 960 | 5.0 | 19.3 |
| 25S | 1,510 | 1,802 | 11.1 | 43.0 |

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 PM

Gel Image



Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
Modified: 4/17/2015 3:37:44 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.

Sample 12 has not been run, no results available.

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad

Created: 4/17/2015 3:19:22 PM
 Modified: 4/17/2015 3:37:44 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 | | 4/17/2015 3:37:42 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-17\2015-04-17_003.xad) | | Instrument | Run | | 4/17/2015 3:19:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/17/2015 3:19:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/17/2015 3:19:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/17/2015 3:19:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/17/2015 3:19:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/17/2015 3:19:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/17/2015 3:19:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |