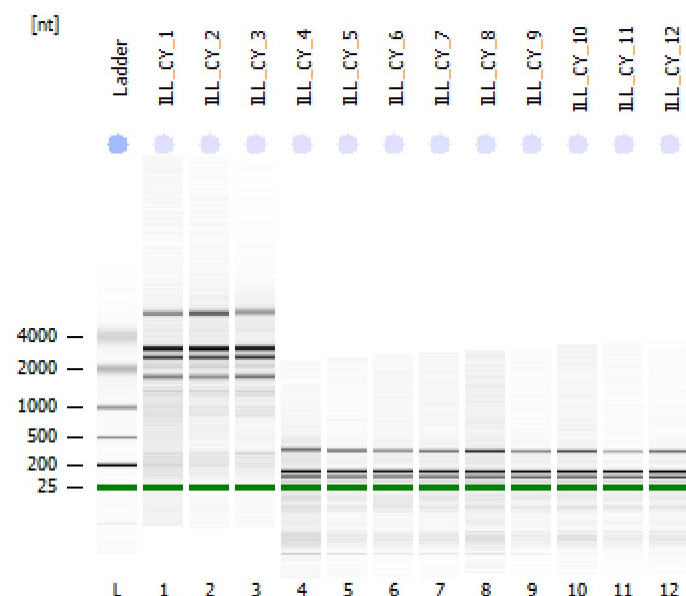


Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 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\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

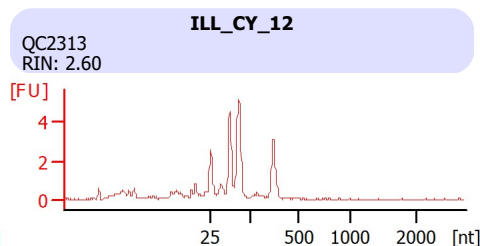
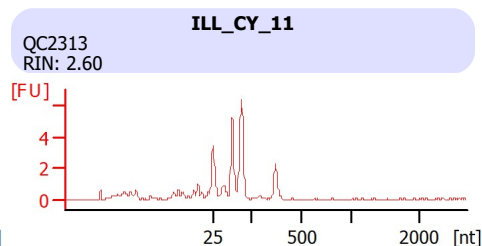
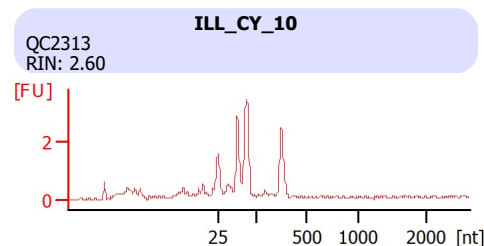
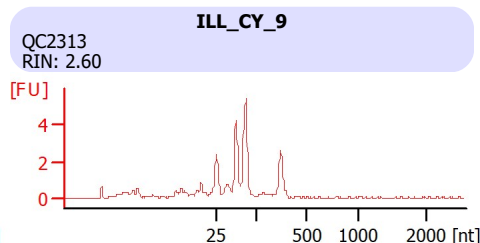
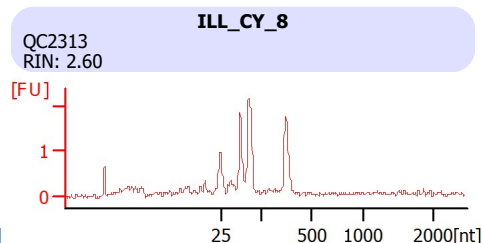
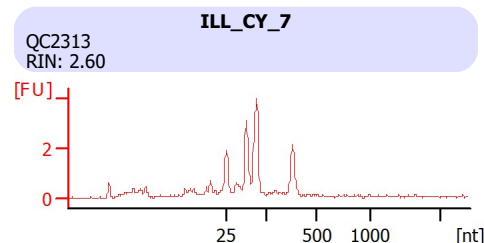
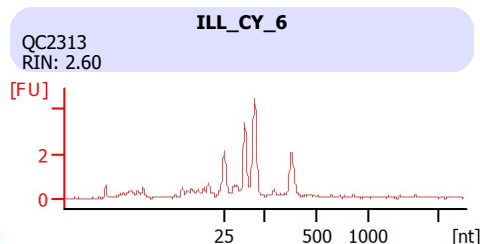
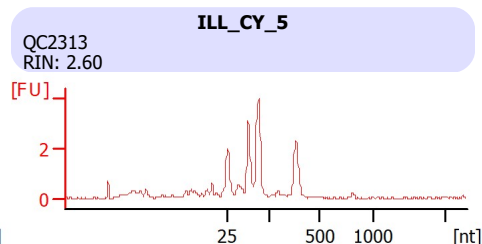
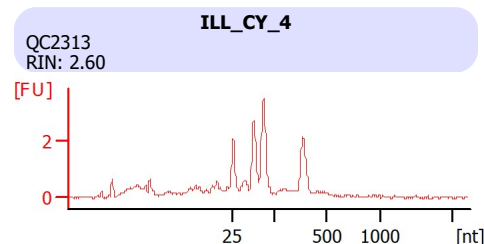
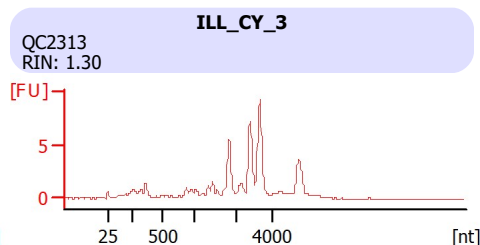
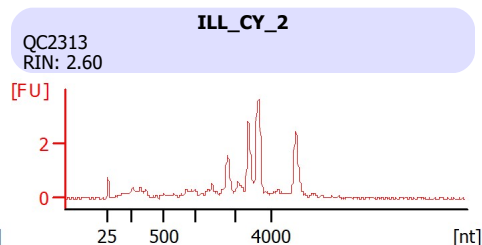
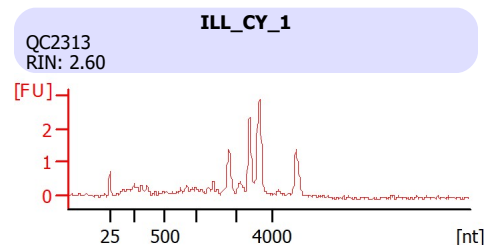
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name | Sample Comment | Status | Result Label      | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| ILL_CY_1    | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_2    | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_3    | QC2313         | ✓      | RIN: 1.30         |              |
| ILL_CY_4    | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_5    | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_6    | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_7    | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_8    | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_9    | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_10   | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_11   | QC2313         | ✓      | RIN: 2.60         |              |
| ILL_CY_12   | QC2313         | ✓      | RIN: 2.60         |              |
| Ladder      |                | ✓      | All Other Samples |              |

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

Assay Class: Plant RNA Nano  
 Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
 Modified: 9/26/2025 4:36:27 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

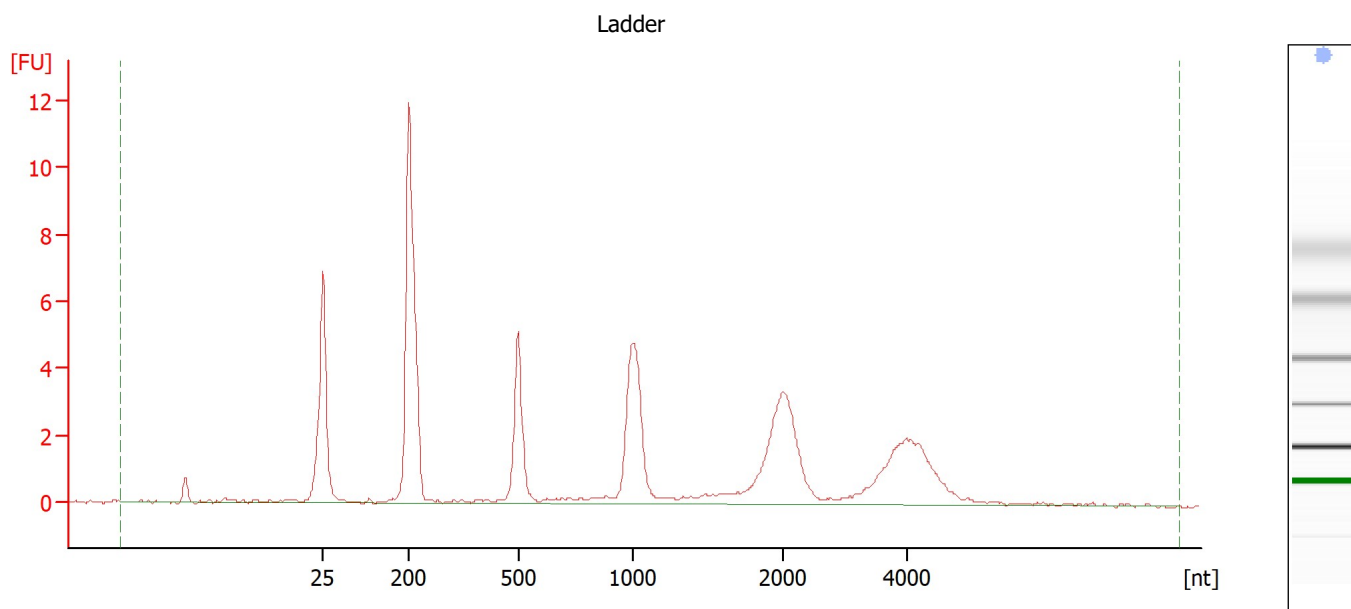
### Ladder

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

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

## Electropherogram Summary



## Overall Results for Ladder

RNA Area: 57.6

Result Flagging Color:



RNA Concentration: 150 ng/μl

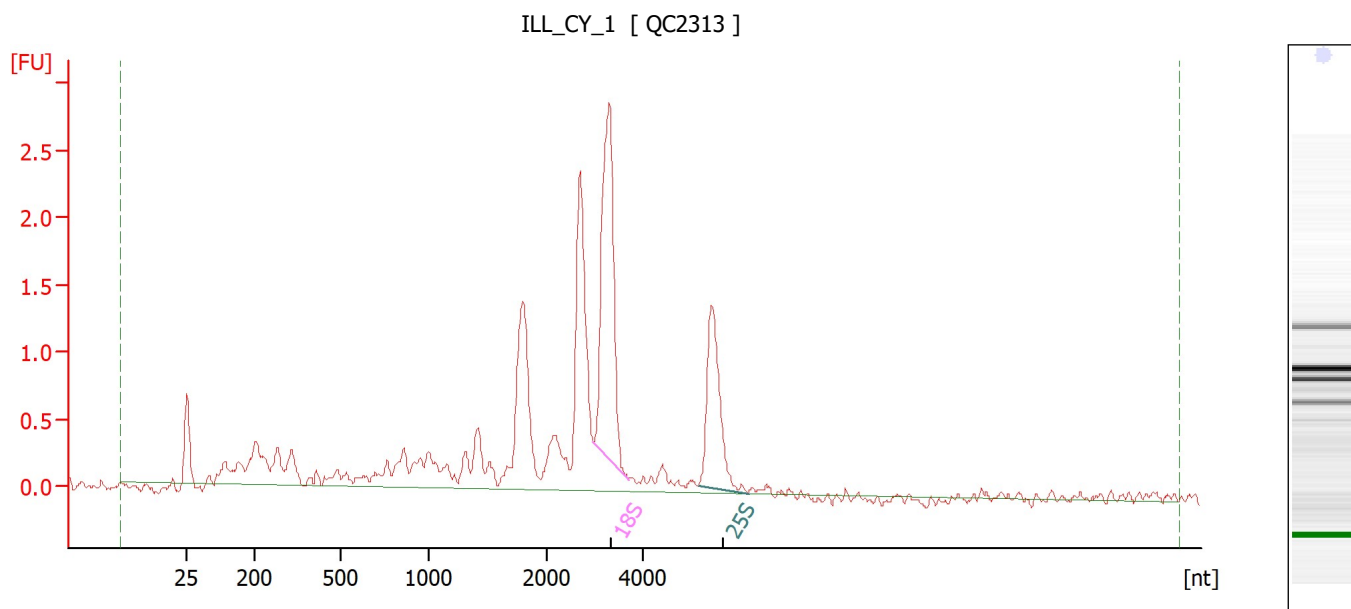
Result Flagging Label:

All Other Samples

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : ILL\_CY\_1**

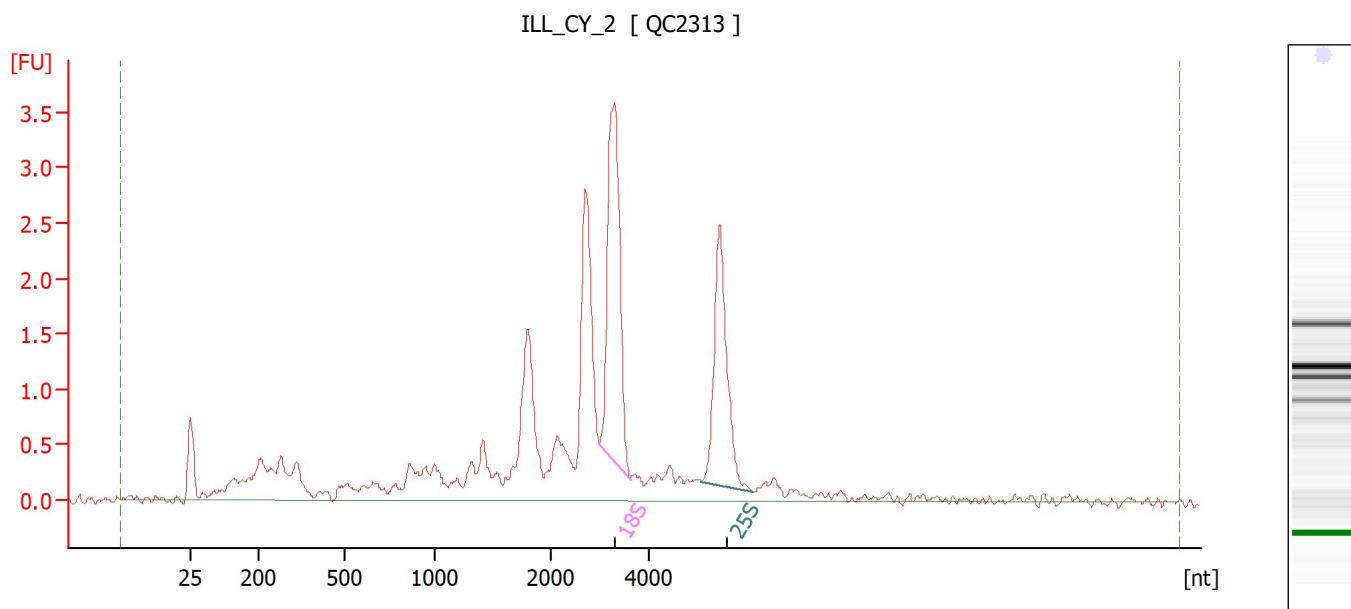
|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 20.3     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 53 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.5      | Result Flagging Label:      | RIN: 2.60                                                                                        |

**Fragment table for sample 1 : ILL\_CY\_1**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 2,978           | 3,707         | 4.0  | 19.6            |
| 25S  | 5,143           | 6,181         | 2.0  | 9.8             |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...****Overall Results for sample 2 : ILL\_CY\_2**

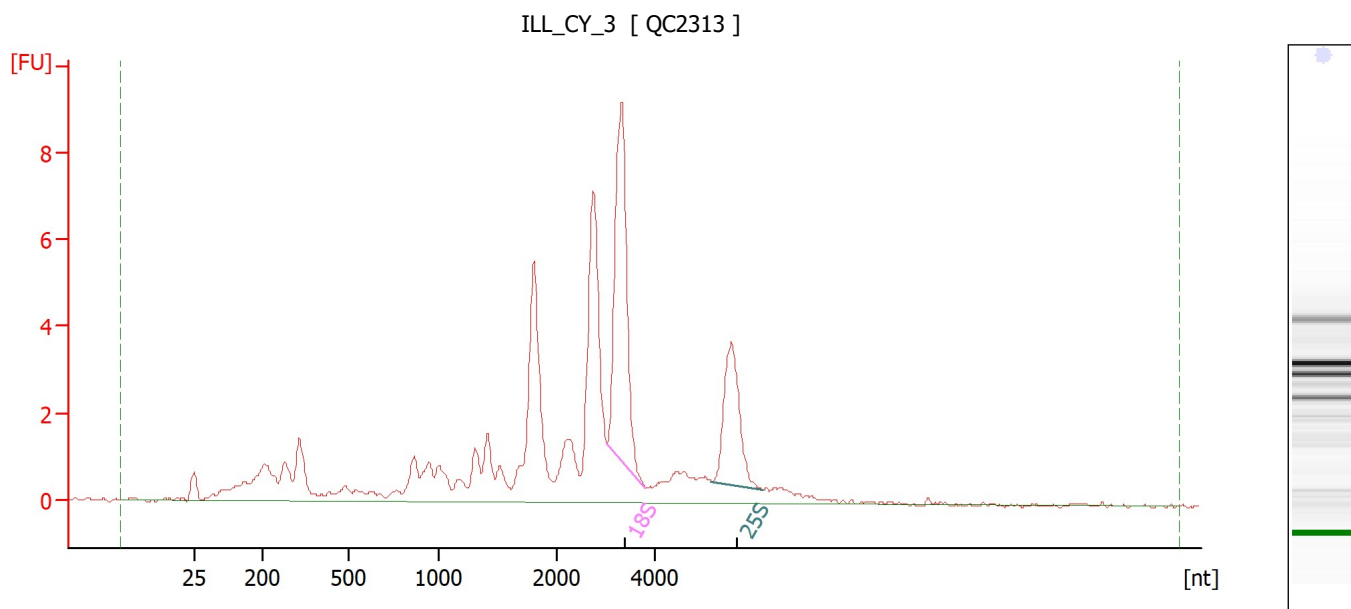
|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 29.8     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 78 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.7      | Result Flagging Label:      | RIN: 2.60                                                                                        |

**Fragment table for sample 2 : ILL\_CY\_2**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 2,989           | 3,625         | 5.1  | 16.9            |
| 25S  | 5,073           | 6,148         | 3.4  | 11.5            |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...****Overall Results for sample 3 : ILL\_CY\_3**

|                         |           |                             |                                                                                                  |
|-------------------------|-----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 74.9      | RNA Integrity Number (RIN): | 1.3 (B.02.10)                                                                                    |
| RNA Concentration:      | 195 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 20px; height: 10px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.5       | Result Flagging Label:      | RIN: 1.30                                                                                        |

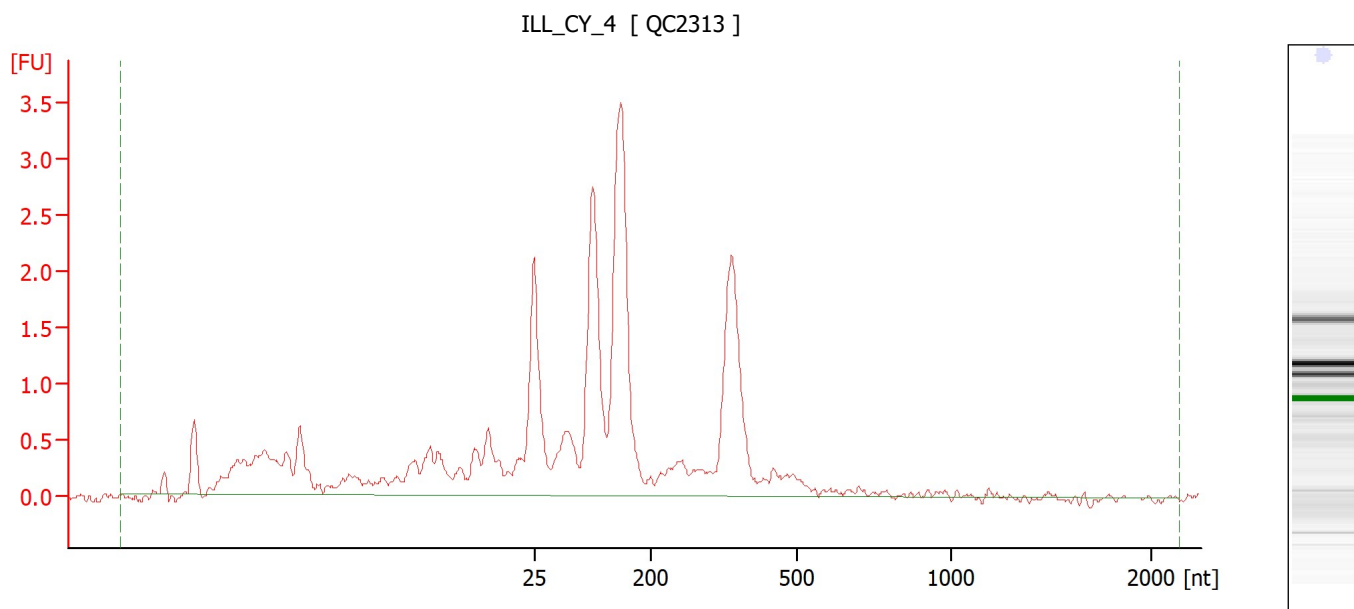
**Fragment table for sample 3 : ILL\_CY\_3**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 3,021           | 3,806         | 12.1 | 16.1            |
| 25S  | 5,157           | 6,181         | 5.7  | 7.6             |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : ILL CY 4**

Height Threshold [FU] : 0.1

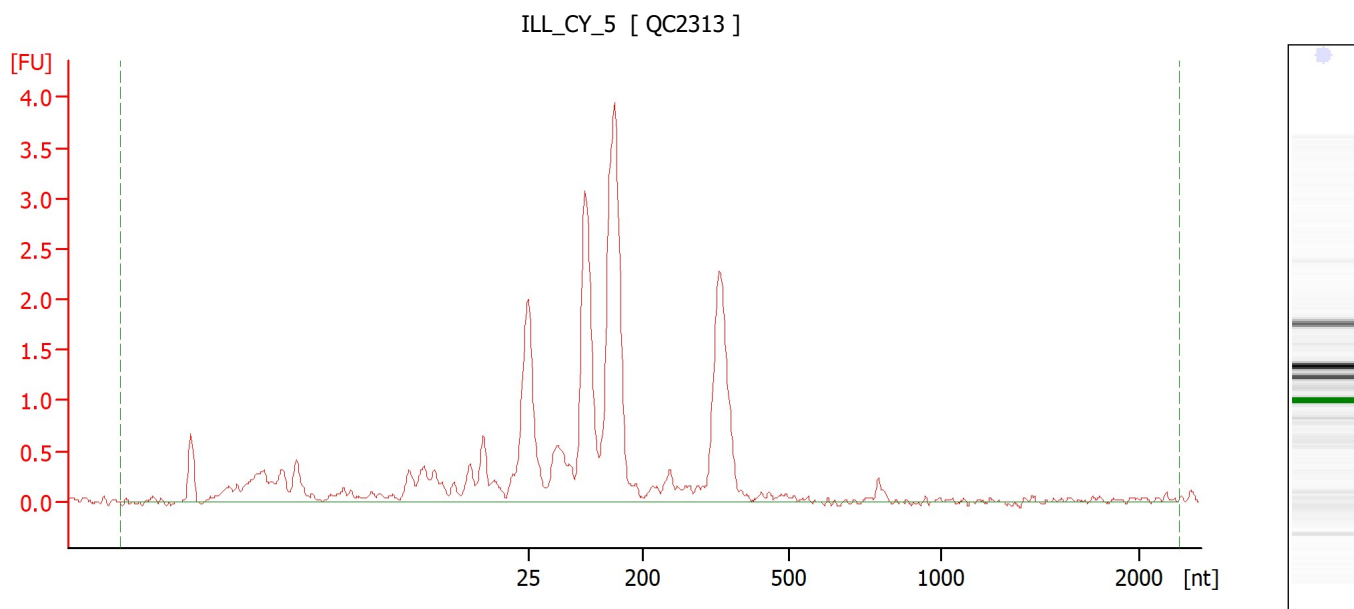
**Overall Results for sample 4 : ILL CY 4**

|                         |          |                             |                                                                                                                             |
|-------------------------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RNA Area:               | 30.8     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                                               |
| RNA Concentration:      | 80 ng/μl | Result Flagging Color:      | <span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                                                   |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

### Electropherogram Summary Continued ...



### Setpoint Deviations for sample 5 : ILL CY 5

Width Threshold [s] : 0.1

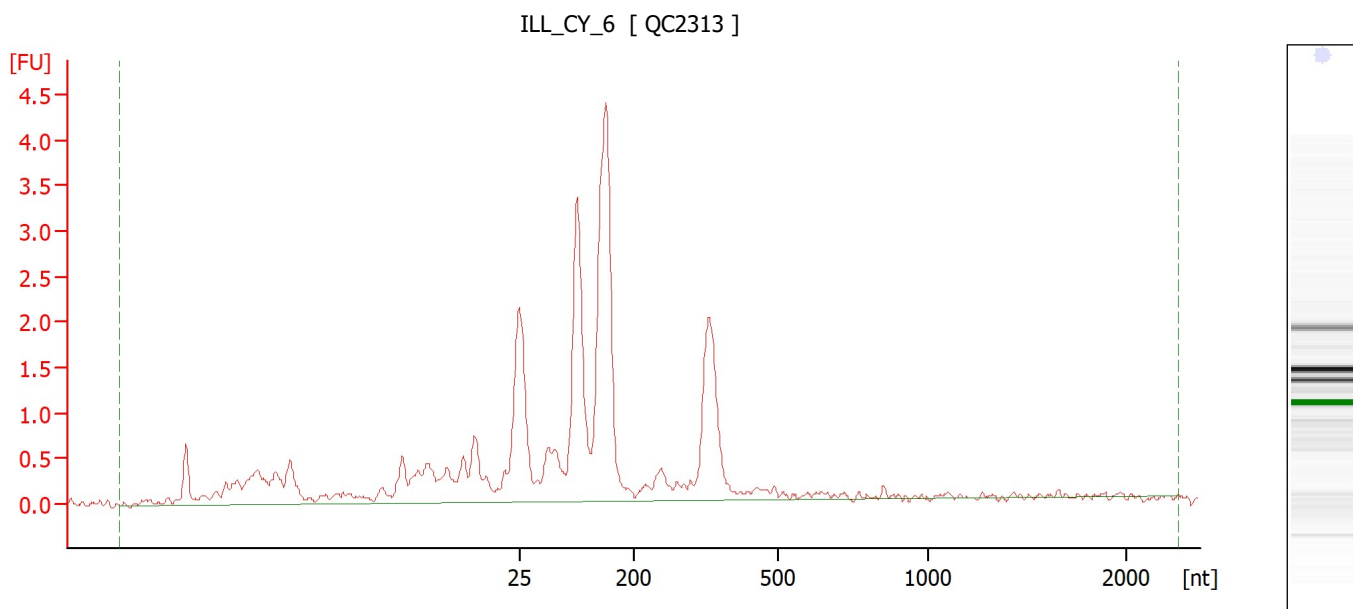
### Overall Results for sample 5 : ILL CY 5

|                         |          |                             |                                                                                          |
|-------------------------|----------|-----------------------------|------------------------------------------------------------------------------------------|
| RNA Area:               | 25.9     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                            |
| RNA Concentration:      | 67 ng/μl | Result Flagging Color:      | <span style="background-color: #d1c4e9; border: 1px solid black; padding: 2px;"> </span> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



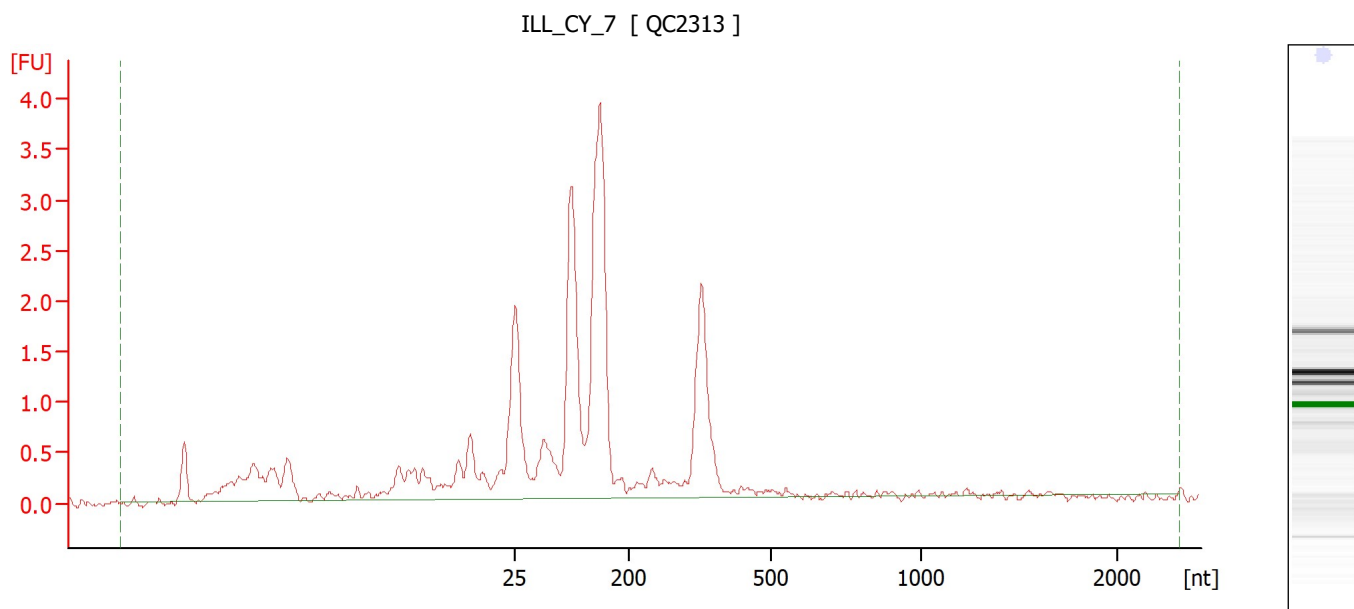
**Overall Results for sample 6 : ILL\_CY\_6**

|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 30.0     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 78 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                        |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



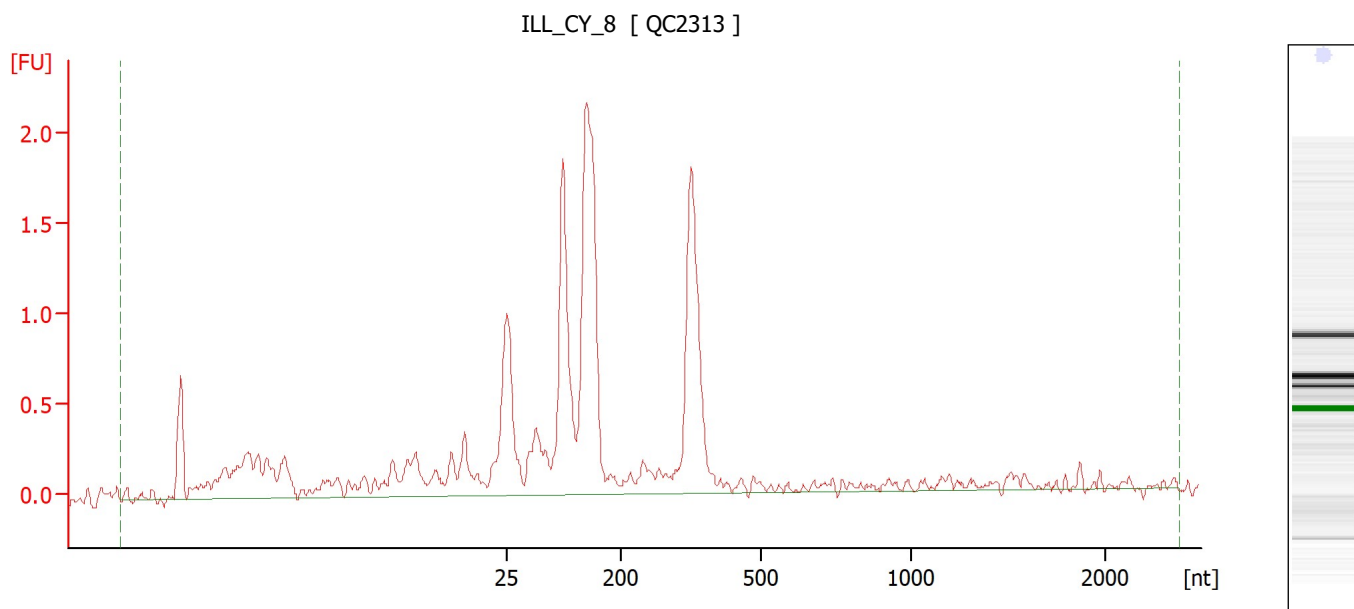
**Overall Results for sample 7 : ILL\_CY\_7**

|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 25.4     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 66 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                        |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



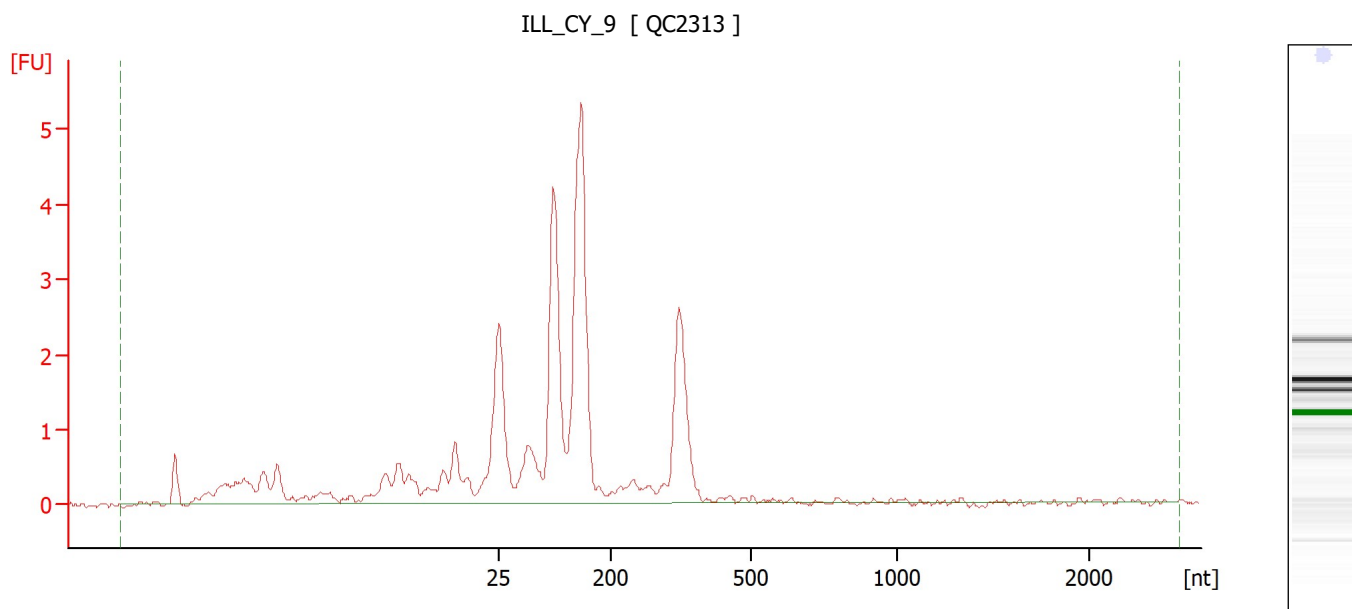
**Overall Results for sample 8 : ILL\_CY\_8**

|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 18.6     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 48 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                        |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



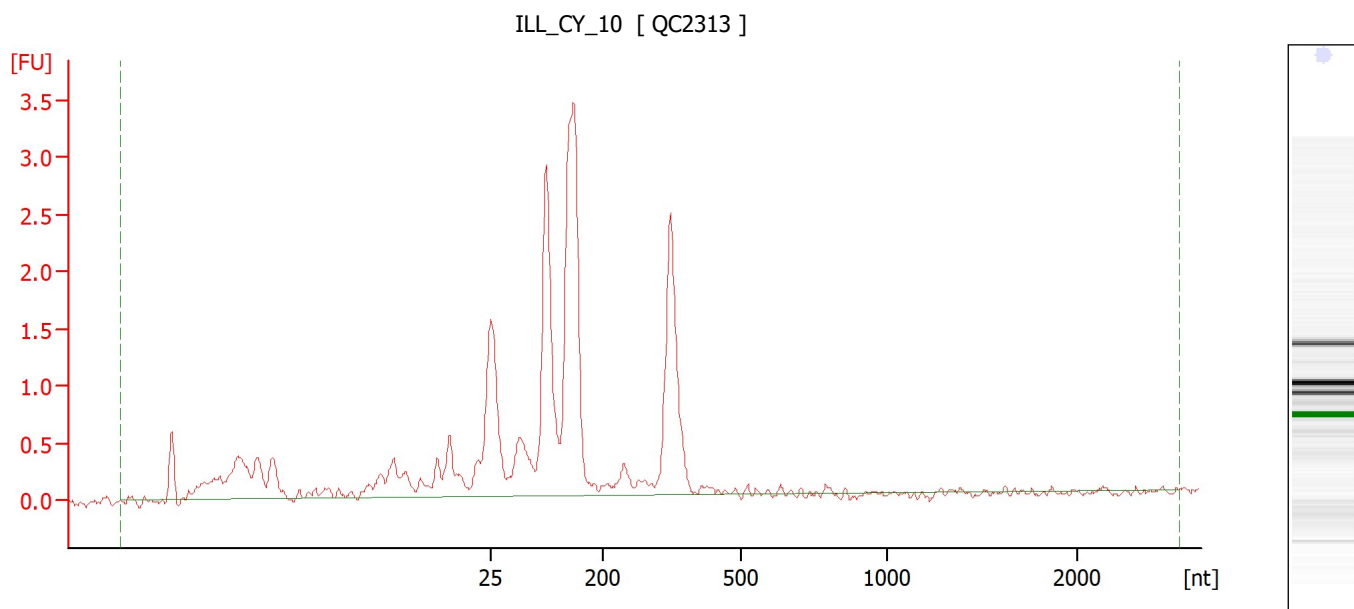
**Overall Results for sample 9 : ILL\_CY\_9**

|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 32.6     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 85 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                        |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



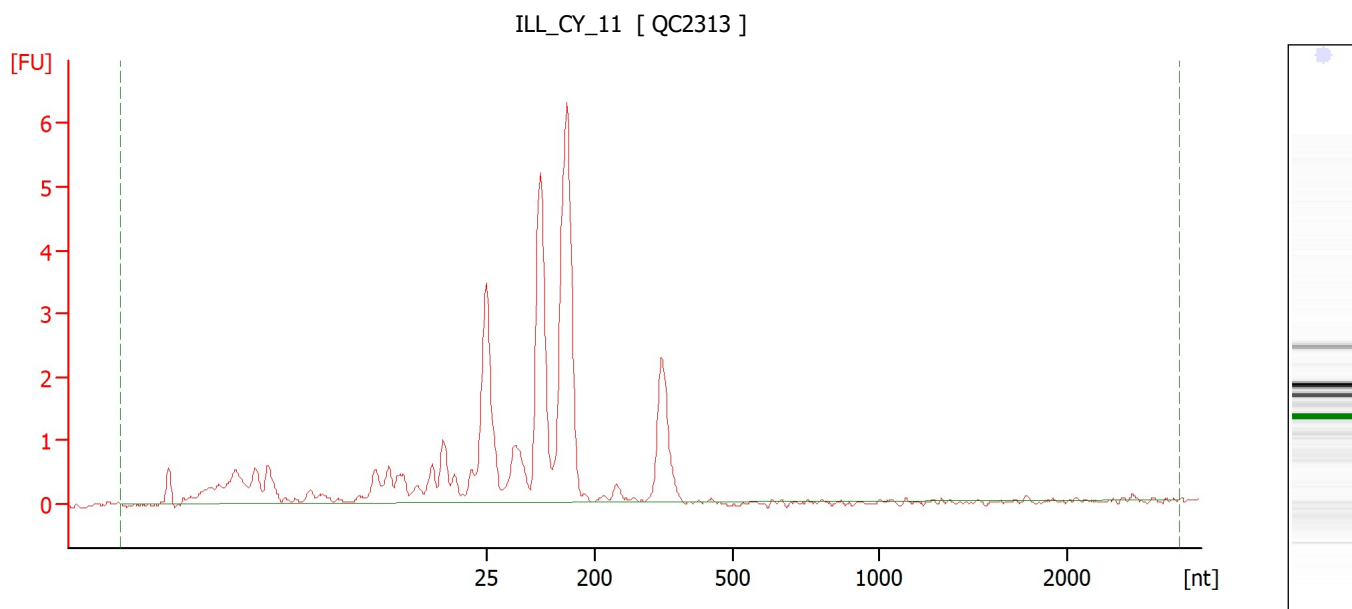
**Overall Results for sample 10 : ILL\_CY\_10**

|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 22.9     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 60 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                        |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



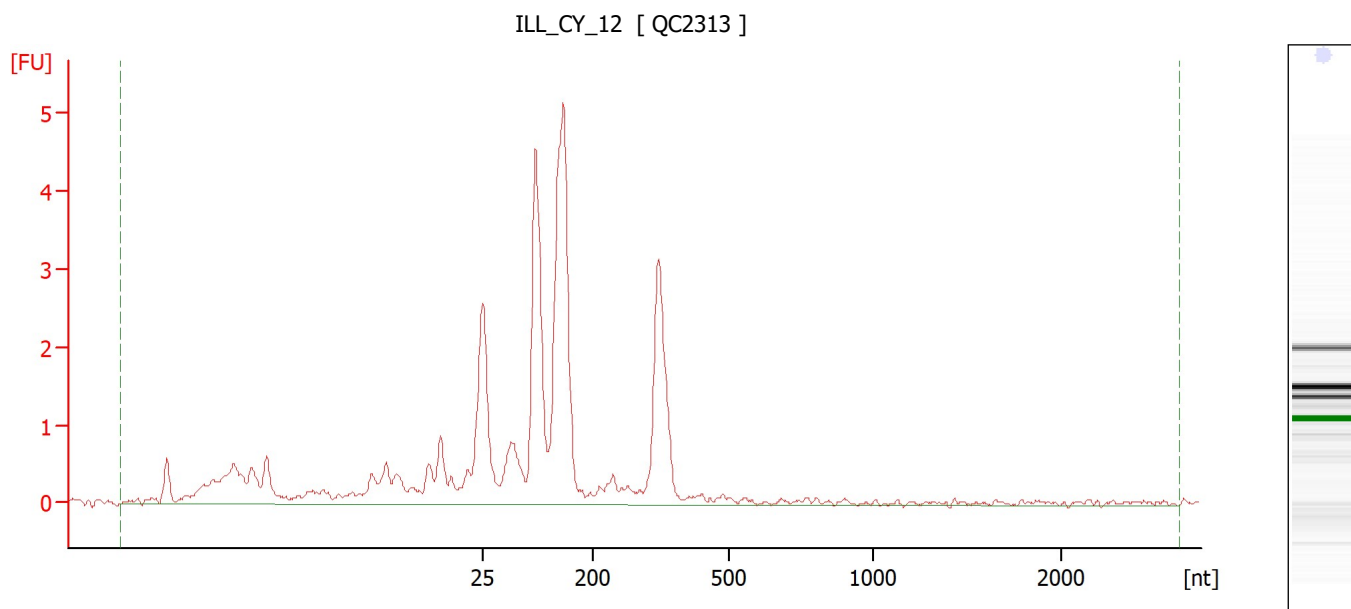
**Overall Results for sample 11 : ILL\_CY\_11**

|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 32.5     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 85 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                        |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

**Electropherogram Summary Continued ...**



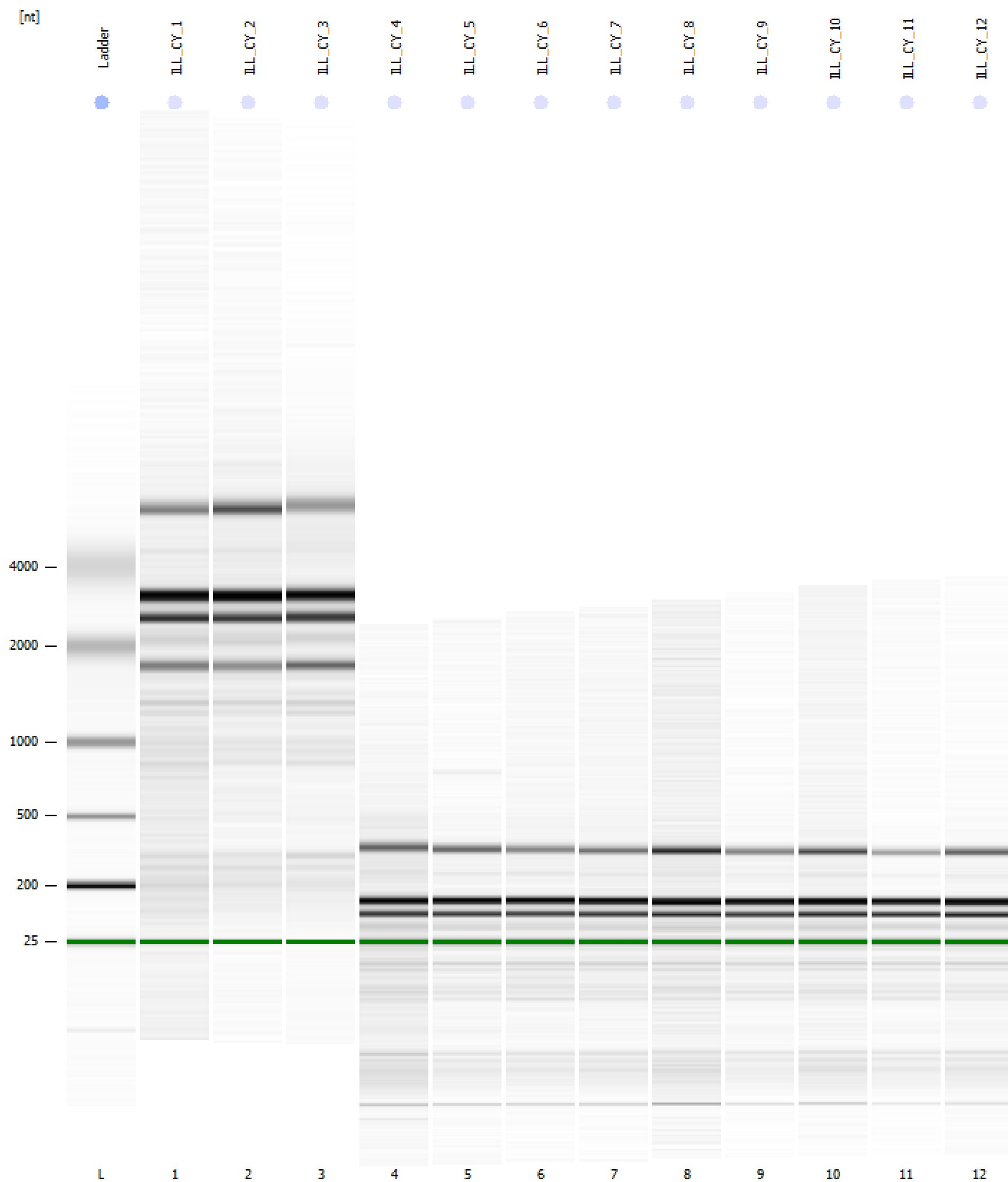
**Overall Results for sample 12 : ILL\_CY\_12**

|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 37.0     | RNA Integrity Number (RIN): | 2.6 (B.02.10)                                                                                    |
| RNA Concentration:      | 96 ng/μl | Result Flagging Color:      | <div style="background-color: #e0e0ff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [25s / 18s]: | 0.0      | Result Flagging Label:      | RIN: 2.60                                                                                        |

Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

# Gel Image



Assay Class: Plant RNA Nano  
Data Path: C:\...6\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2025-09-26\_001.xad

Created: 9/26/2025 3:56:07 PM  
Modified: 9/26/2025 4:36:27 PM

# Run Logbook

| Description                                                                                                                                                                        | Number | Source     | Category | Sub Category | Time                 | Time Zone                           | User    | Host             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|----------|--------------|----------------------|-------------------------------------|---------|------------------|
| Run ended on port 1 (Number of wells acquired: 13)                                                                                                                                 |        | Instrument | Run      |              | 9/26/2025 4:19:59 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2025-09-26\Bioanalyzer1_Plant RNA Nano_DE34903152_2025-09-26 Product Number : G2938C |        | Instrument | Run      |              | 9/26/2025 3:56:13 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name :                                                                                                                                                                             |        | Instrument | Run      |              | 9/26/2025 3:56:13 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies                                                                                                                                                      |        | Instrument | Run      |              | 9/26/2025 3:56:13 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152                                                                                                                                                               |        | Instrument | Run      |              | 9/26/2025 3:56:13 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069                                                                                                                                                                |        | Instrument | Run      |              | 9/26/2025 3:56:13 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode                                                                                                                                                              |        | Instrument | Run      |              | 9/26/2025 3:56:13 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |