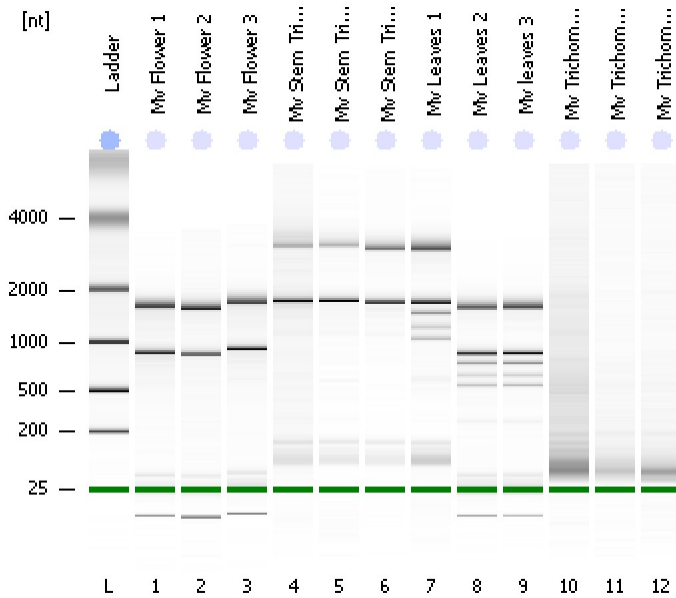


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 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:



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
 Modified: 10/27/2015 3:53:05 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Mv Flower 1		✓	RIN: 6.40	
Mv Flower 2		✓	RIN: 6.50	
Mv Flower 3		✓	RIN: 6.20	
Mv Stem Trichomes 1		✓	RIN: 6.80	
Mv Stem Trichomes 2		✓	RIN: 7.50	
Mv Stem Trichomes 3		✓	RIN: 7.70	
Mv Leaves 1		✓	RIN: 8.10	
Mv Leaves 2		✓	RIN: 5.90	
Mv leaves 3		✓	RIN: 5.90	
Mv Trichomes 1		✓	RIN: 2.40	
Mv Trichomes 2		✓	RIN: 2.10	
Mv Trichomes 2 (repeat)		✓	RIN: 2.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 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

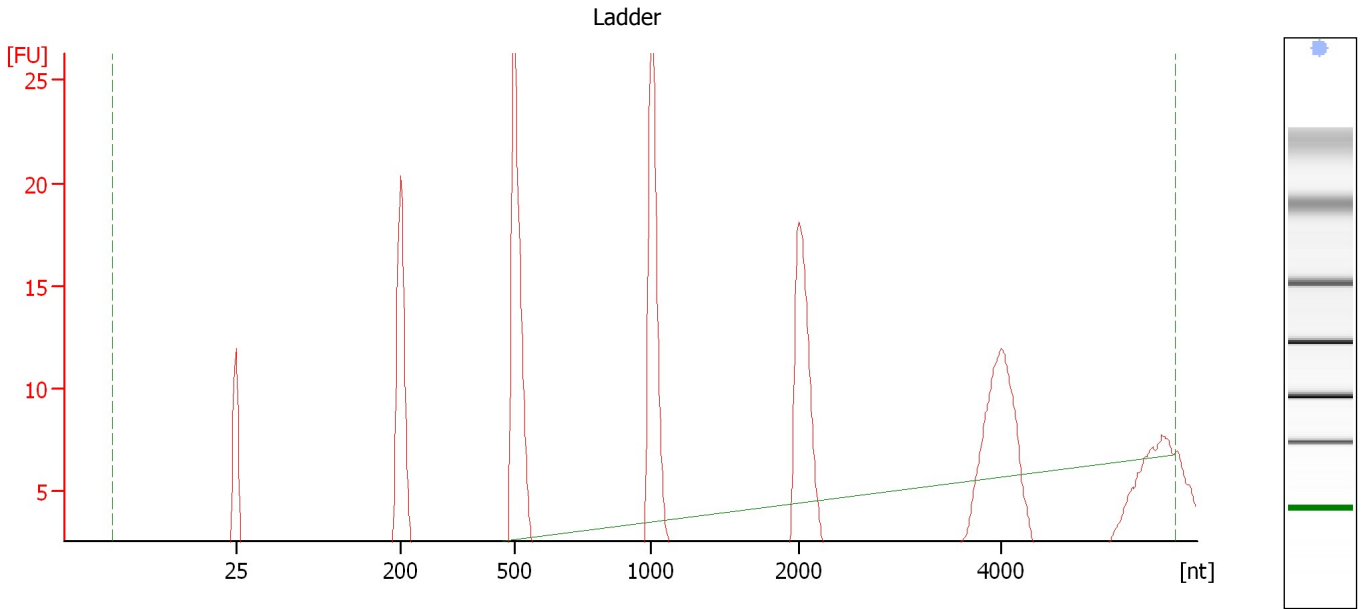
**Ladder**

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\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary**



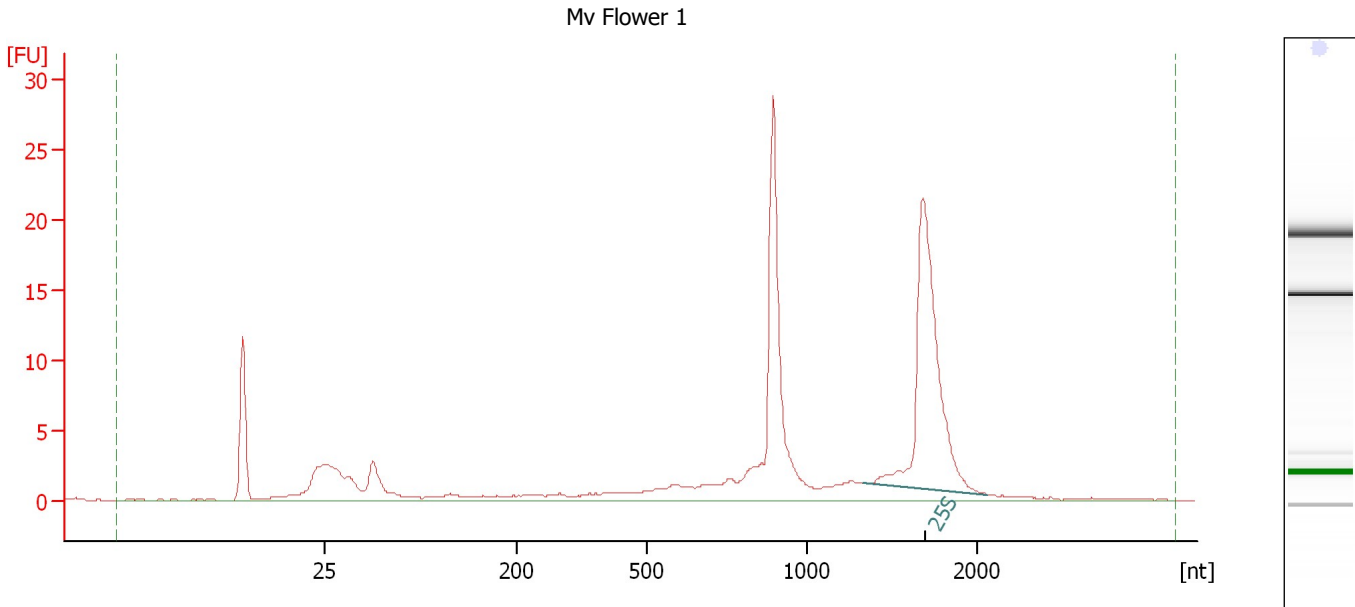
**Overall Results for Ladder**

RNA Area:	110.7	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Mv Flower 1**

RNA Area:	140.6	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	190 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

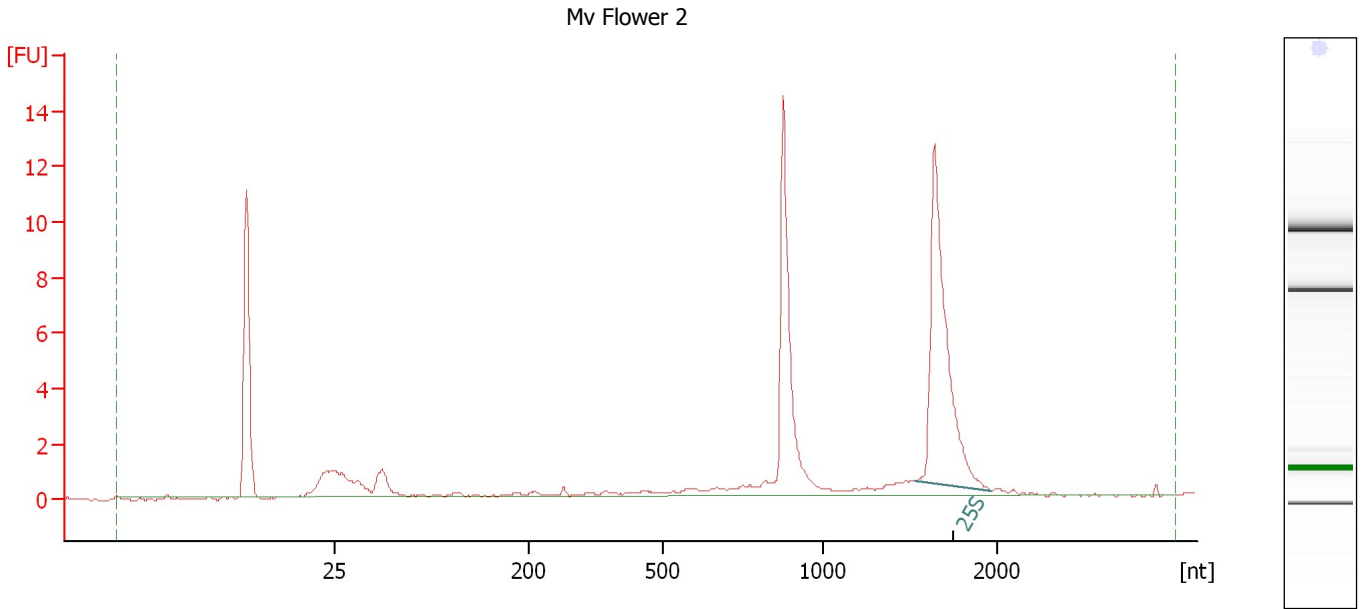
**Fragment table for sample 1 : Mv Flower 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,337	2,096	40.7	29.0

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Mv Flower 2**

RNA Area:	56.1	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	76 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.50

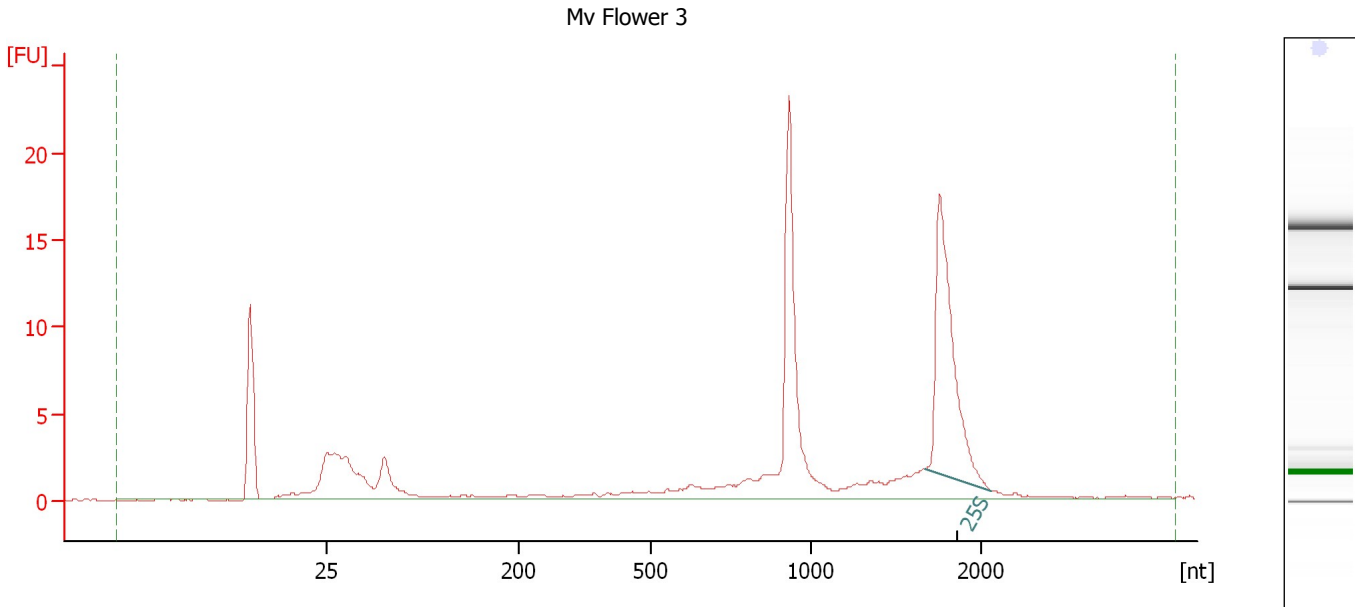
**Fragment table for sample 2 : Mv Flower 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,530	1,970	17.6	31.4

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Mv Flower 3**

RNA Area:	100.6	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	136 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.20

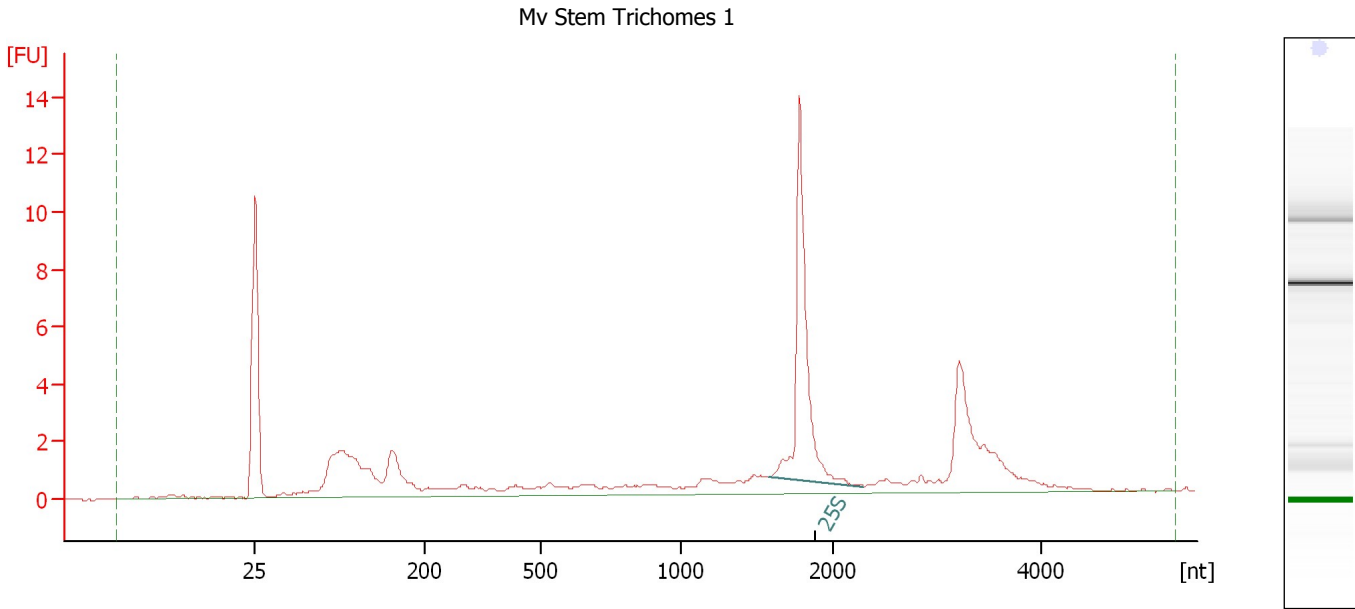
**Fragment table for sample 3 : Mv Flower 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,677	2,086	25.3	25.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Mv Stem Trichomes 1**

RNA Area:	59.4	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	80 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.80

**Fragment table for sample 4 : Mv Stem Trichomes 1**

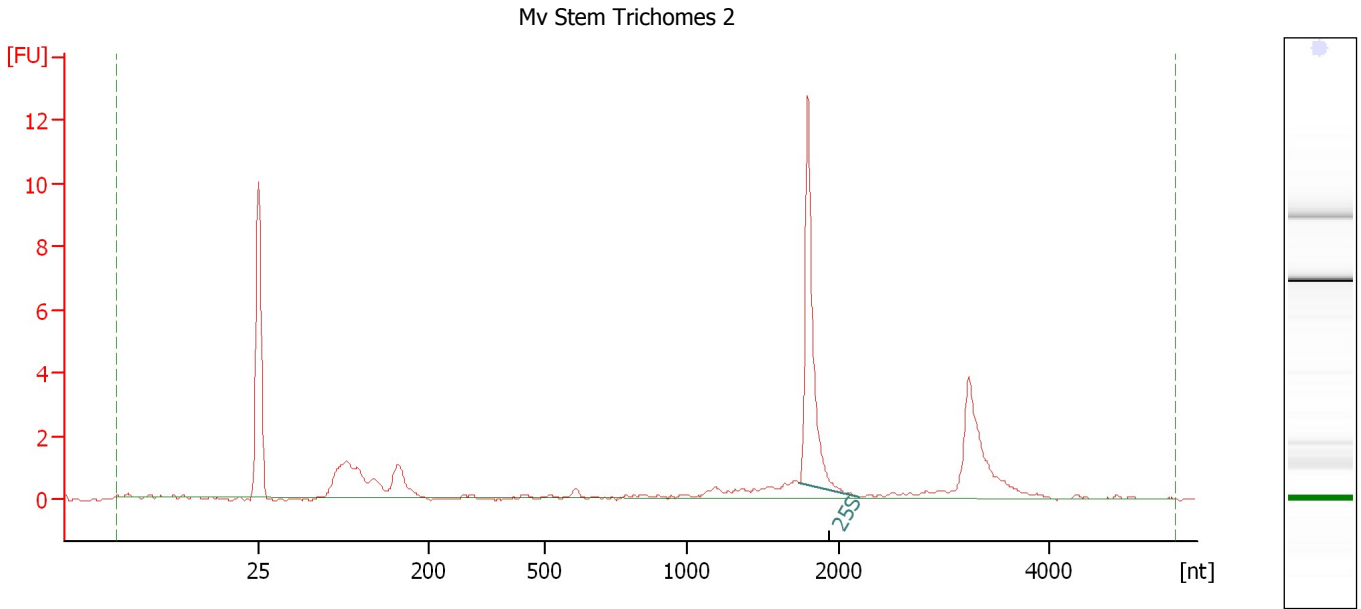
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,577	2,301	13.6	22.9



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Mv Stem Trichomes 2**

RNA Area: 30.9                      RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 42 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0              Result Flagging Label: RIN: 7.50

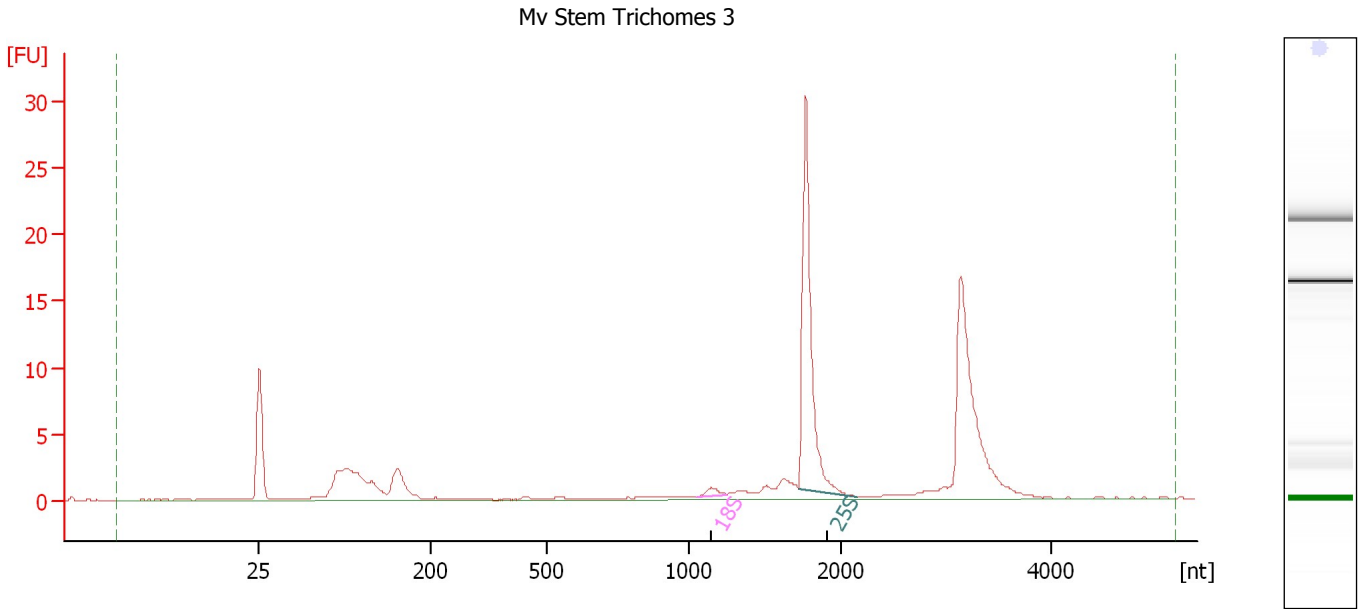
**Fragment table for sample 5 : Mv Stem Trichomes 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,741	2,196	10.1	32.7

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Mv Stem Trichomes 3**

RNA Area: 87.7 RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 119 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 32.1 Result Flagging Label: RIN: 7.70

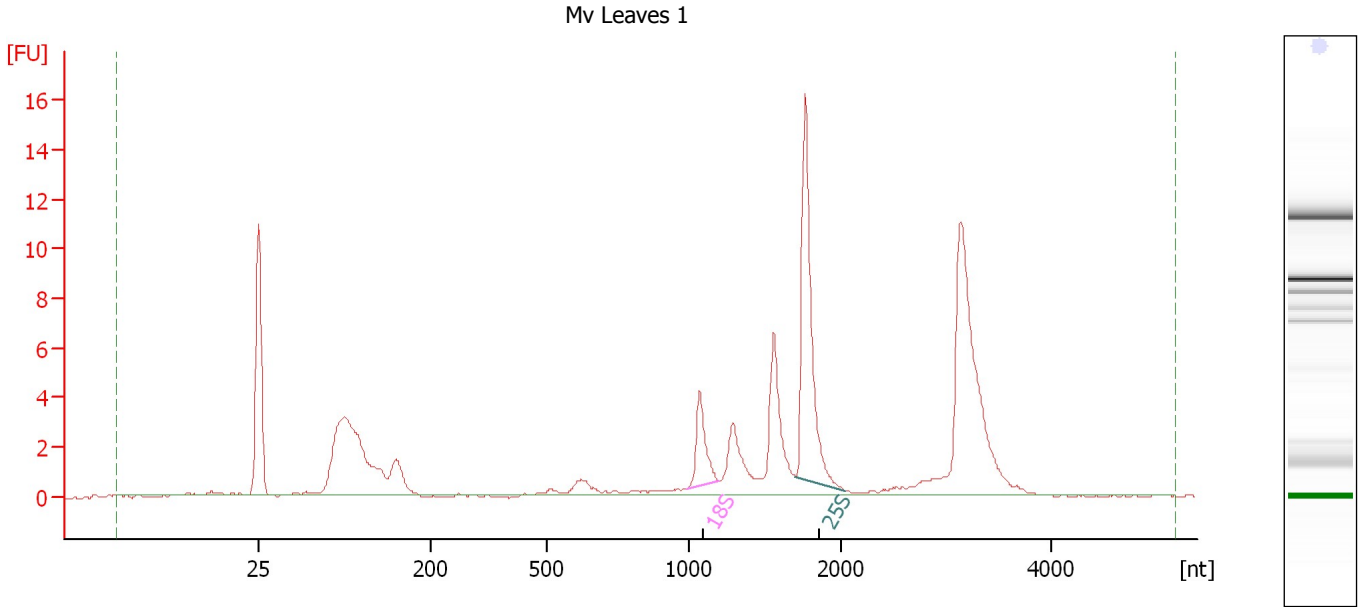
**Fragment table for sample 6 : Mv Stem Trichomes 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,044	1,241	0.8	0.9
25S	1,720	2,144	25.2	28.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Mv Leaves 1**

RNA Area:	83.7	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	113 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	3.6	Result Flagging Label:	RIN: 8.10

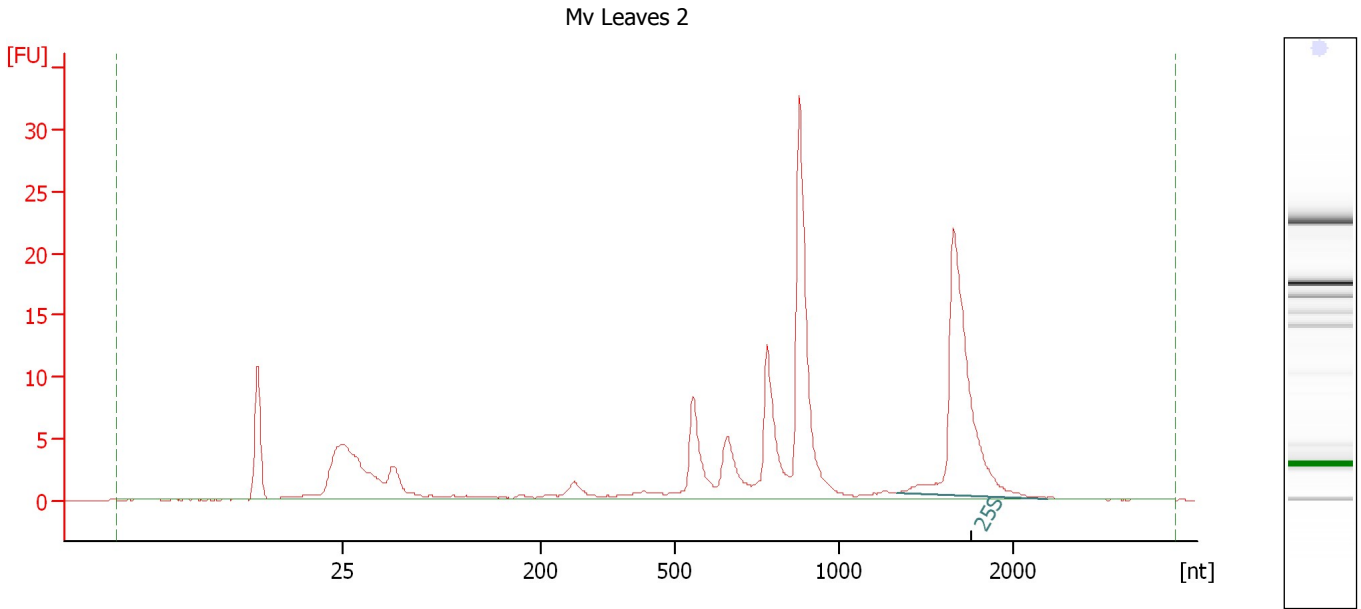
**Fragment table for sample 7 : Mv Leaves 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	993	1,199	4.1	4.9
25S	1,698	2,042	14.9	17.8

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
 Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Mv Leaves 2**

RNA Area:	150.2	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	203 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

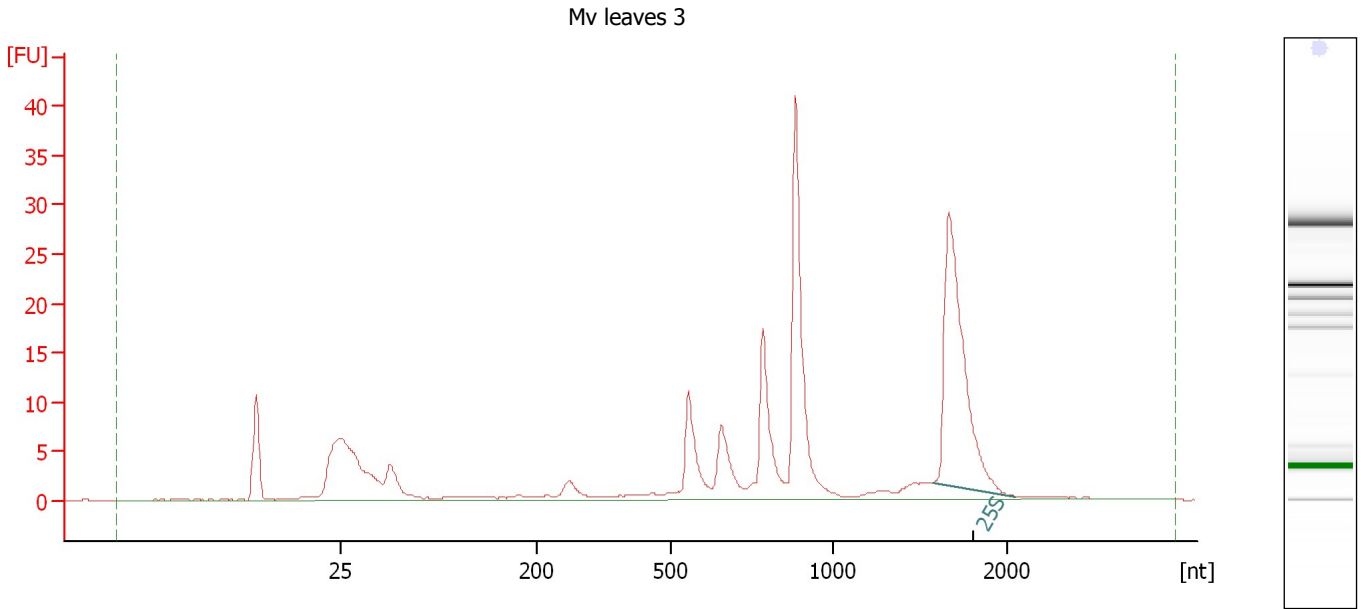
**Fragment table for sample 8 : Mv Leaves 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,333	2,273	38.8	25.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Mv leaves 3**

RNA Area:	187.7	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	254 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

**Fragment table for sample 9 : Mv leaves 3**

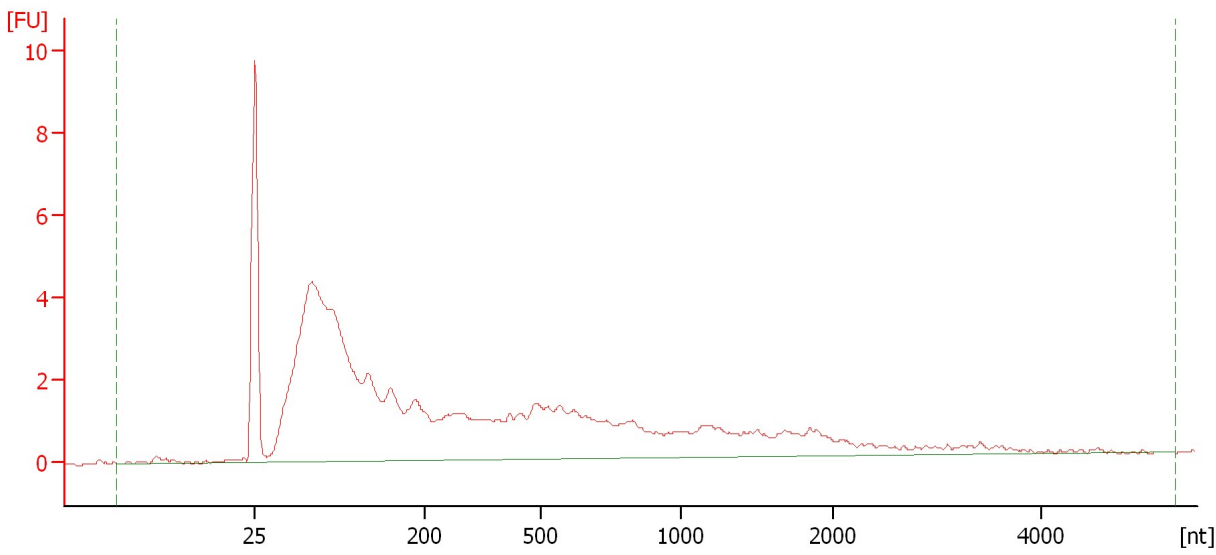
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,570	2,062	48.1	25.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**

Mv Trichomes 1



**Overall Results for sample 10 : Mv Trichomes 1**

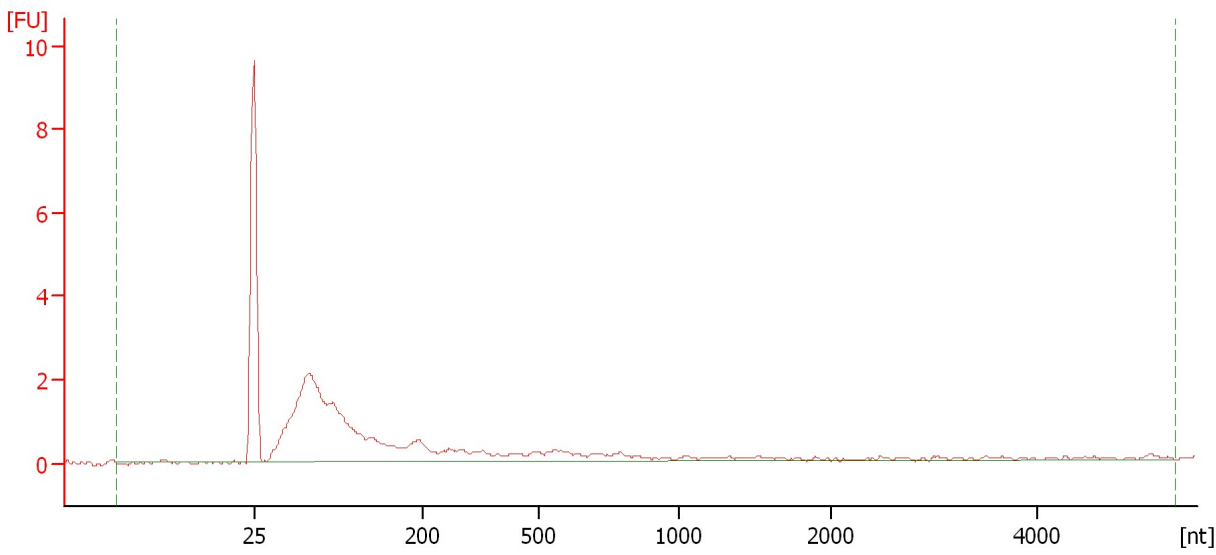
RNA Area:	96.9	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	131 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**

Mv Trichomes 2



**Overall Results for sample 11 : Mv Trichomes 2**

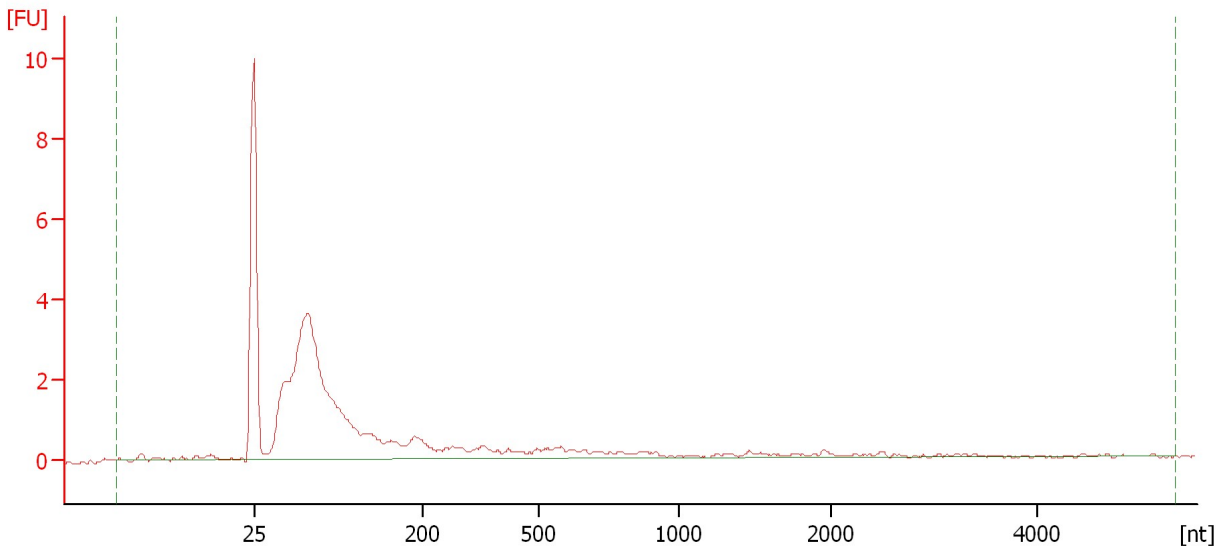
RNA Area:	28.9	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	39 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Electropherogram Summary Continued ...**

Mv Trichomes 2 (repeat)



**Overall Results for sample 12 : Mv Trichomes 2 (repeat)**

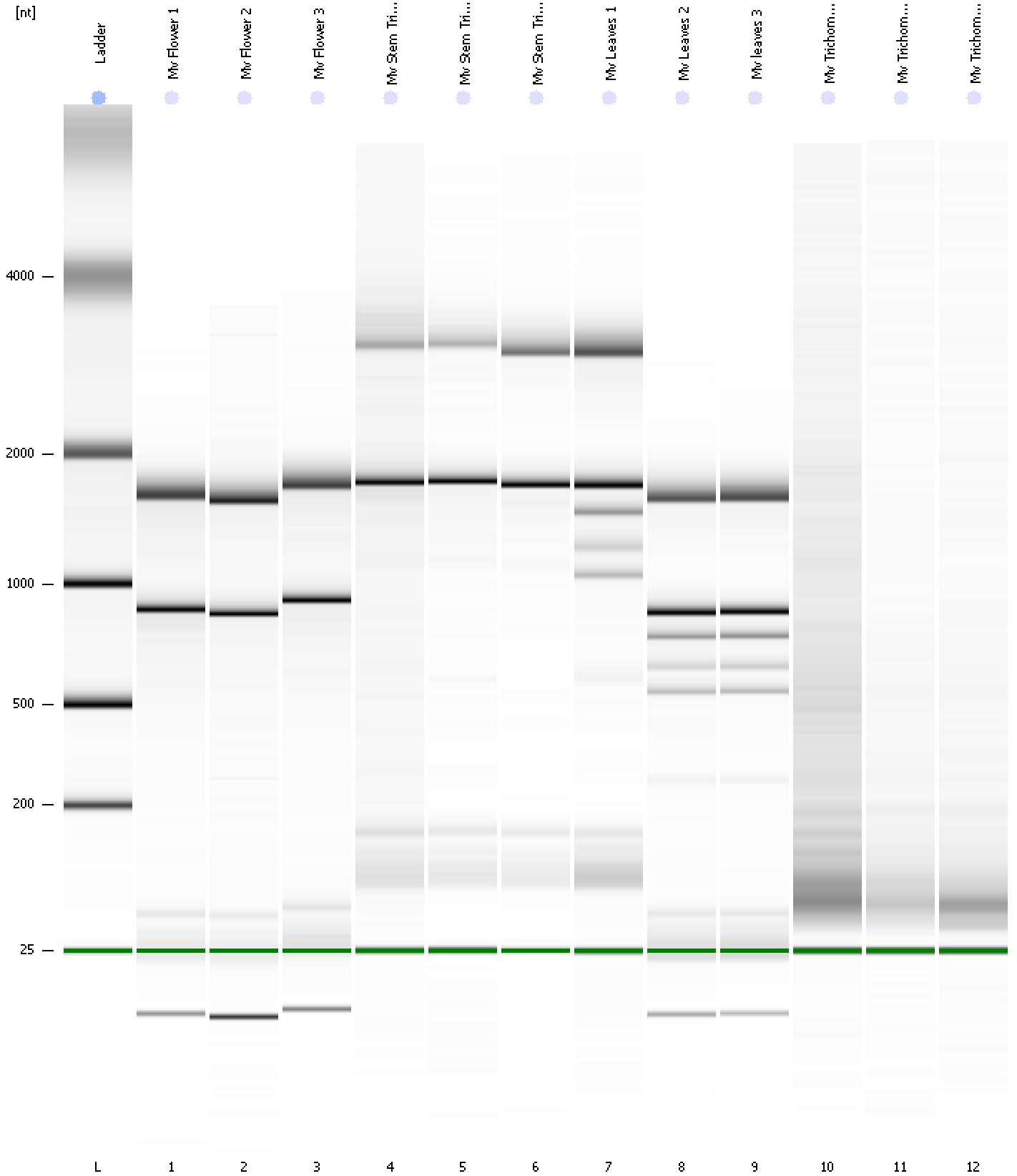
RNA Area:	40.5	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	55 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Gel Image**

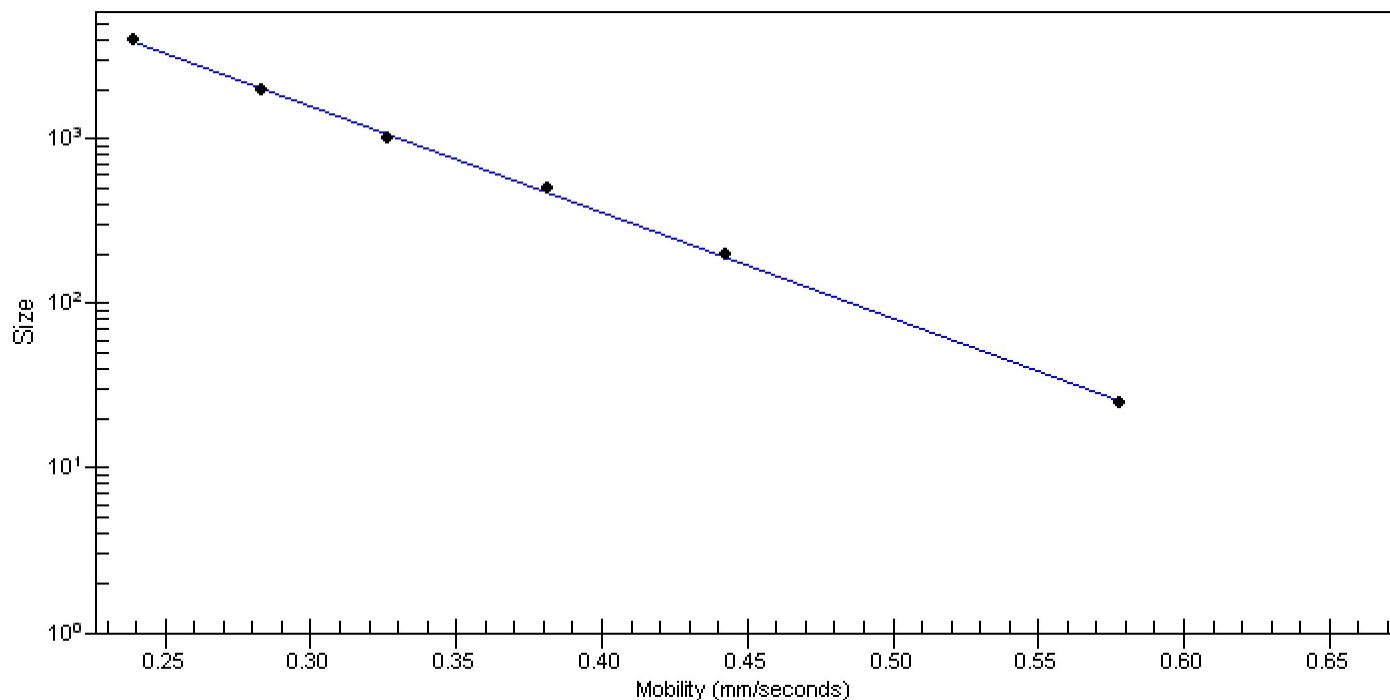


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
Modified: 10/27/2015 3:53:05 PM

**Curves**

**Standard Curve**



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

Created: 10/27/2015 3:29:14 PM  
 Modified: 10/27/2015 3:53:05 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		10/27/2015 3:53:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad)		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1