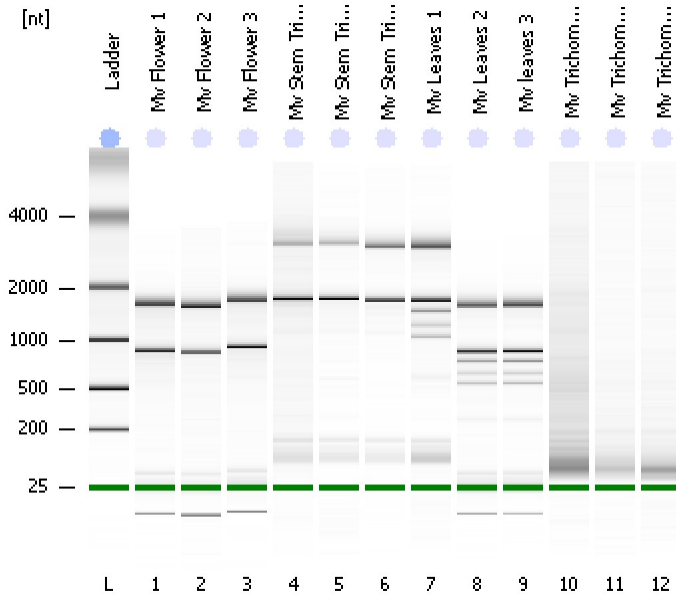


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

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

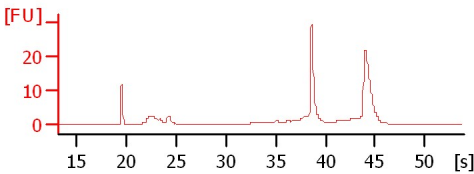
Assay Class: Plant RNA Nano  
Version: 1.3  
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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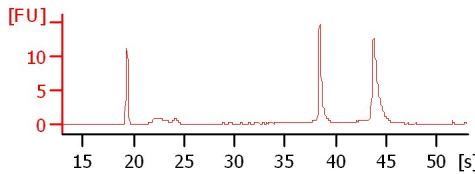
Chip Information:

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

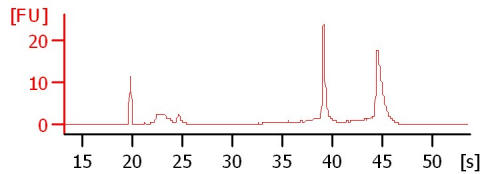
**Mv Flower 1**  
RIN: 6.40



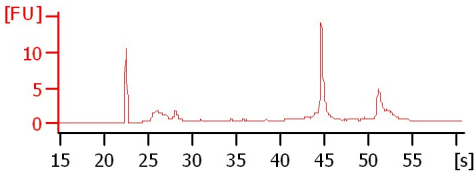
**Mv Flower 2**  
RIN: 6.50



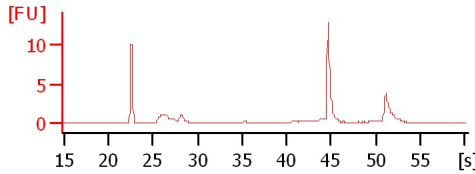
**Mv Flower 3**  
RIN: 6.20



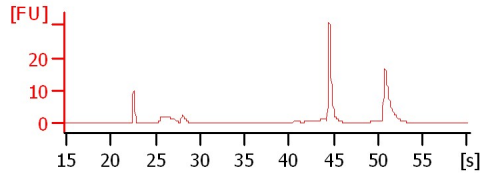
**Mv Stem Trichomes 1**  
RIN: 6.80



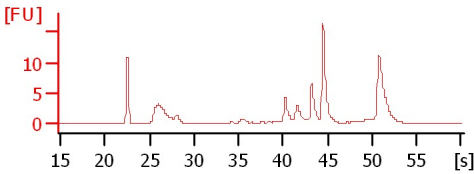
**Mv Stem Trichomes 2**  
RIN: 7.50



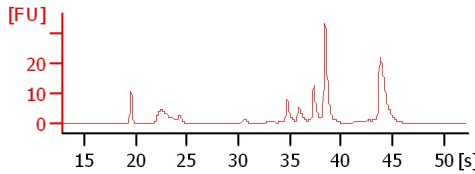
**Mv Stem Trichomes 3**  
RIN: 7.70



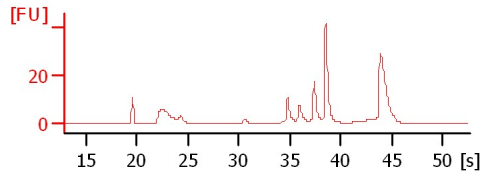
**Mv Leaves 1**  
RIN: 8.10



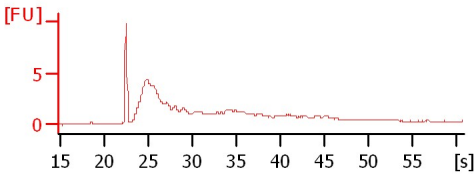
**Mv Leaves 2**  
RIN: 5.90



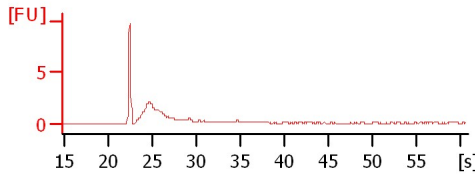
**Mv leaves 3**  
RIN: 5.90



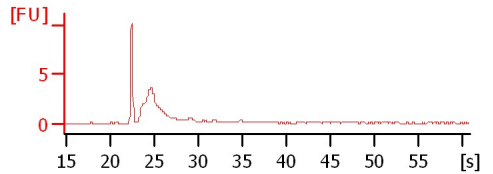
**Mv Trichomes 1**  
RIN: 2.40



**Mv Trichomes 2**  
RIN: 2.10



**Mv Trichomes 2 (repeat)**  
RIN: 2.50



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

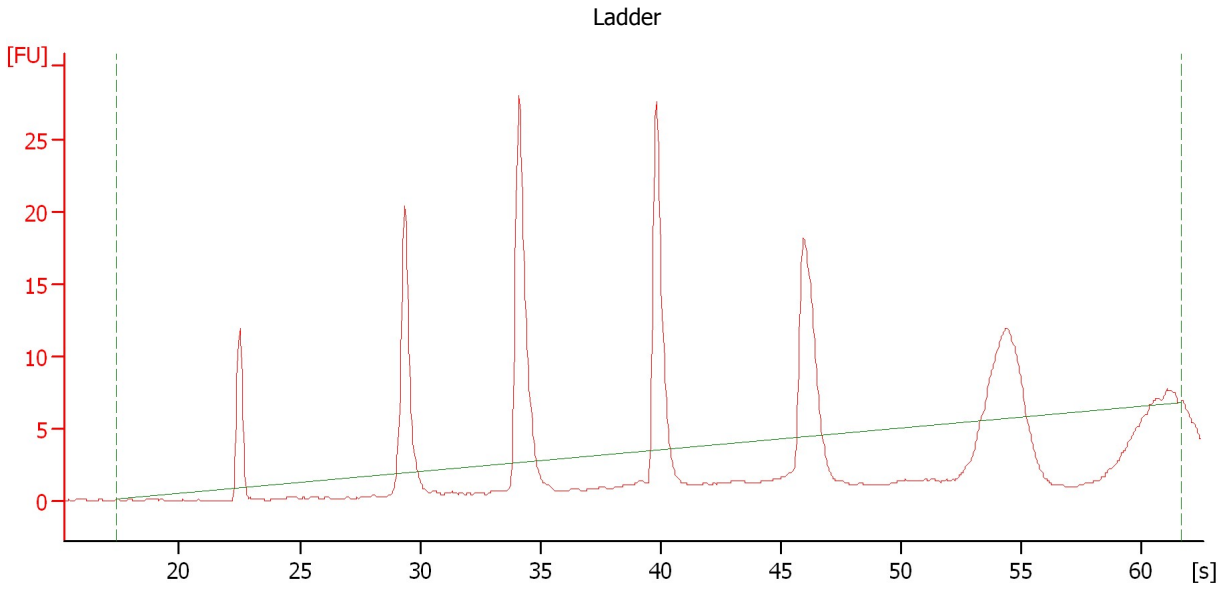
### Ladder

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**



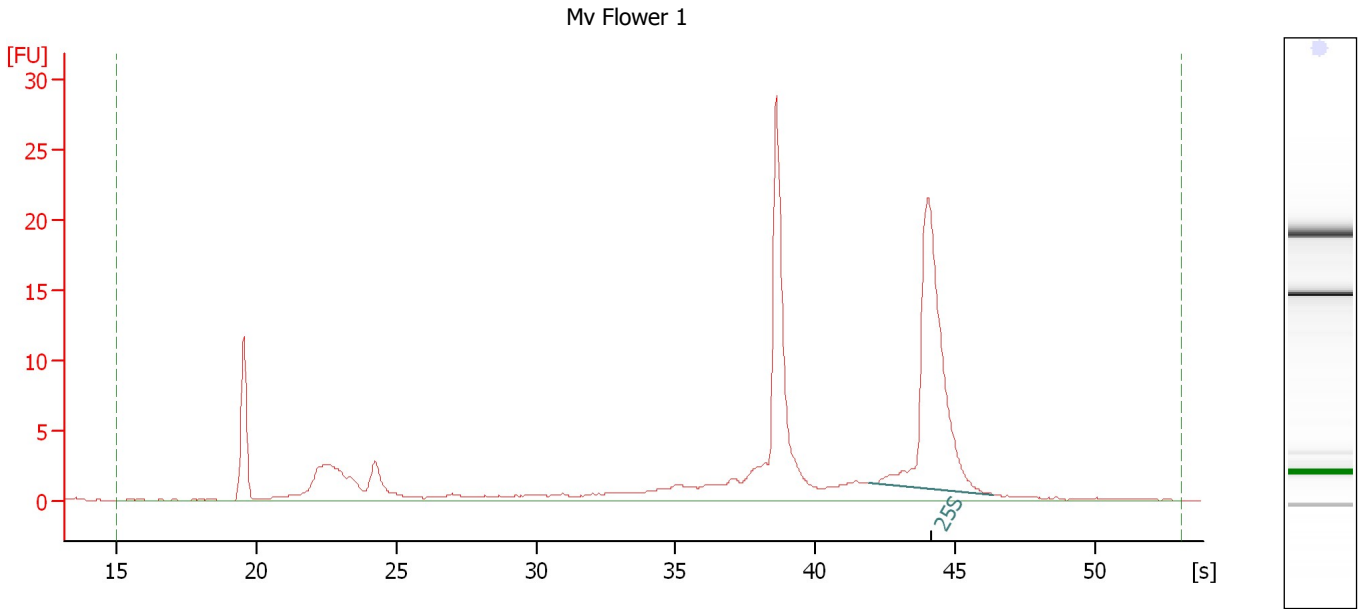
**Overall Results for Ladder**

RNA Area:	110.7	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	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:   
rRNA Ratio [25s / 18s]: 0.0      Result Flagging Label: RIN: 6.40

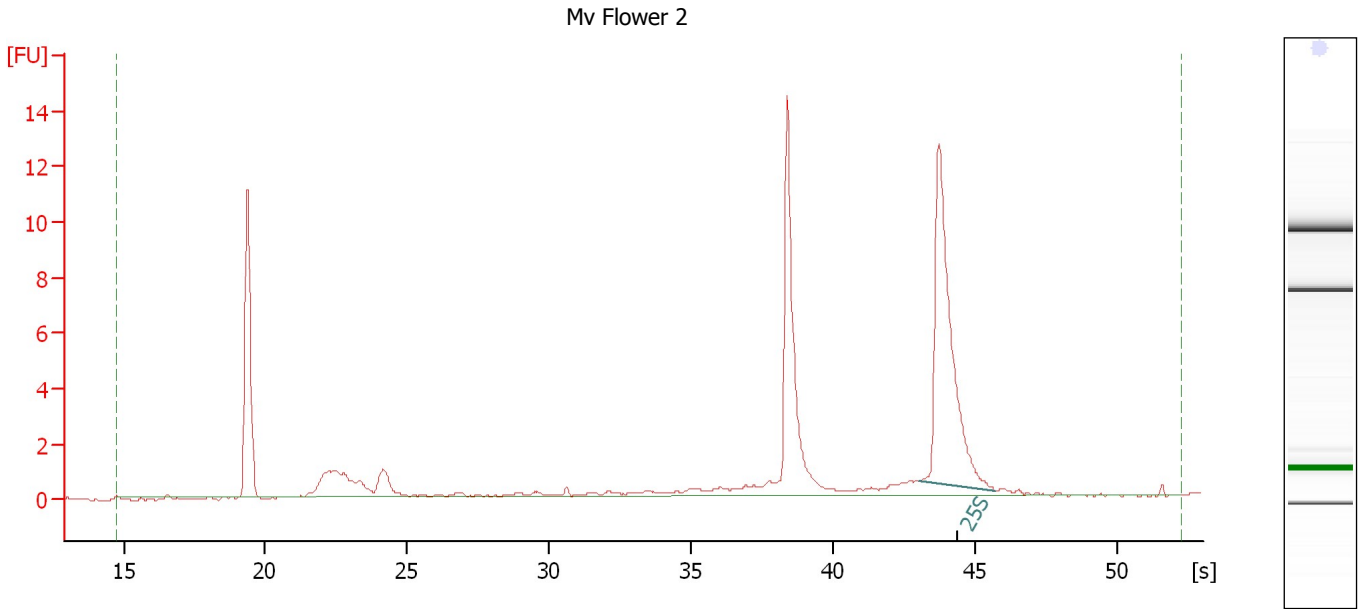
**Fragment table for sample 1 : Mv Flower 1**

Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	41.88	46.35	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

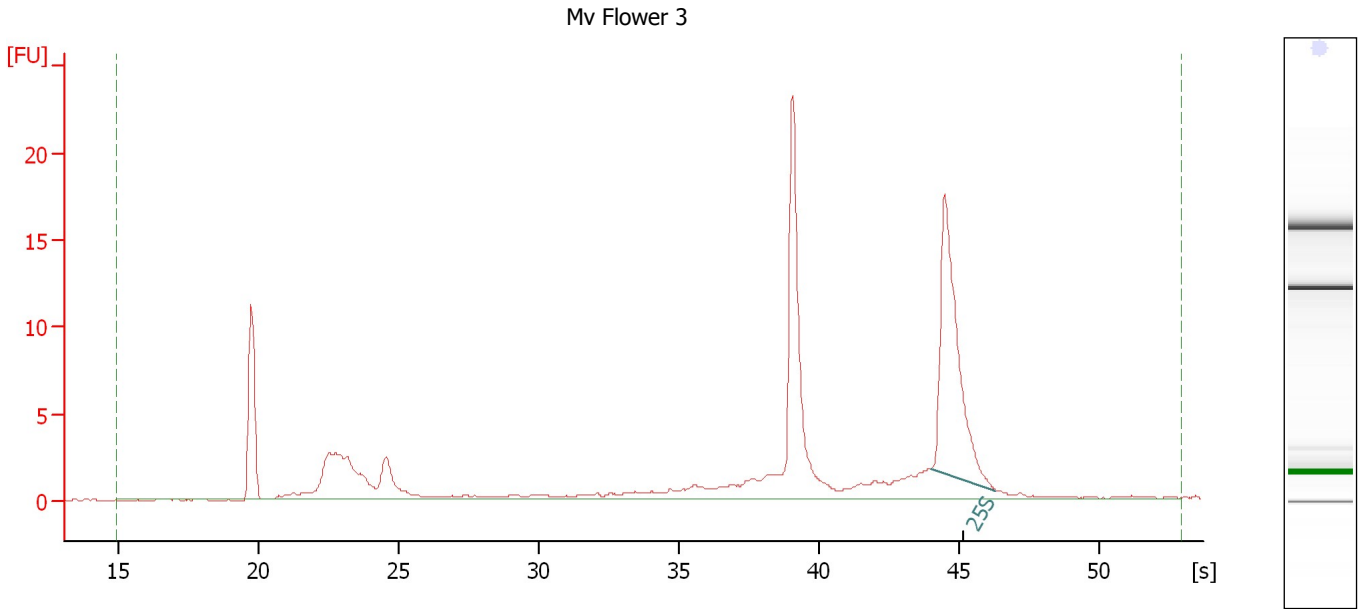
**Fragment table for sample 2 : Mv Flower 2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	43.07	45.76	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

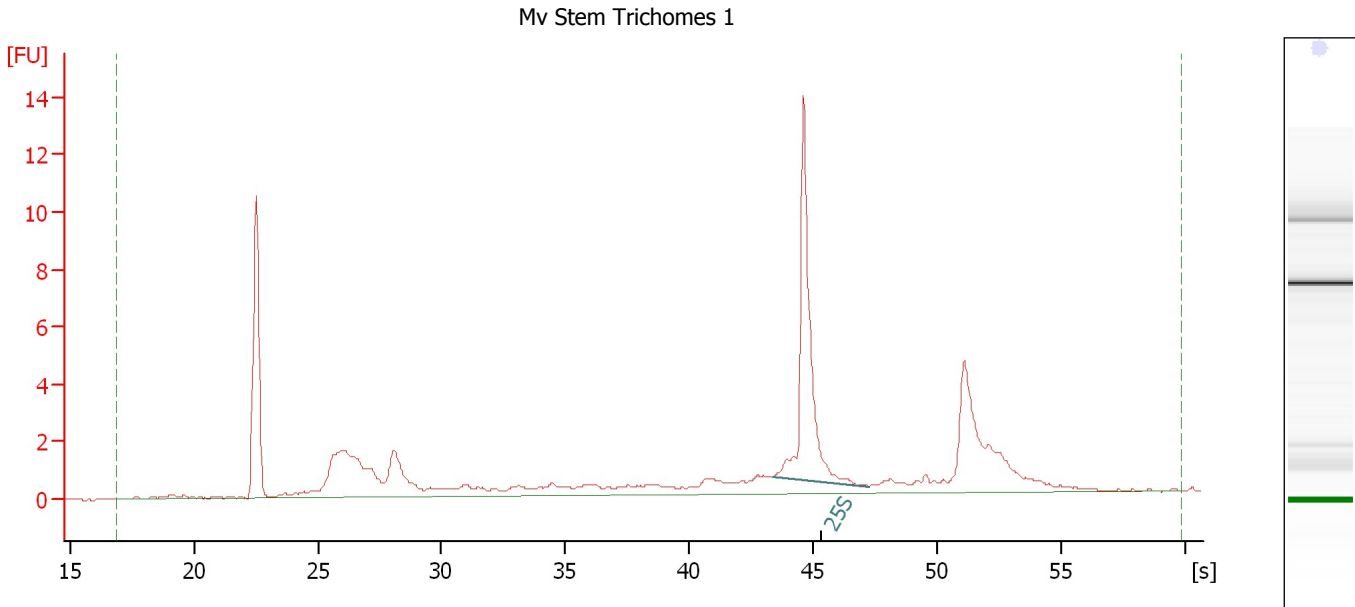
**Fragment table for sample 3 : Mv Flower 3**

Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	43.97	46.30	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**

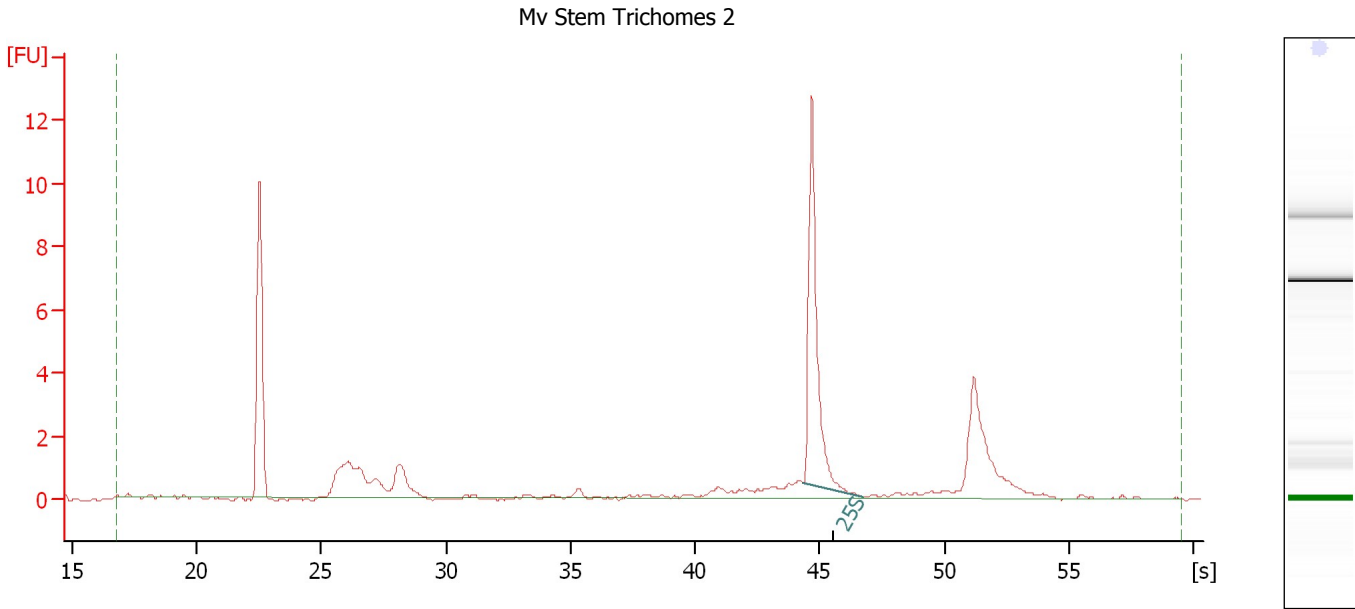
Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	43.35	47.21	13.6	22.9



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**

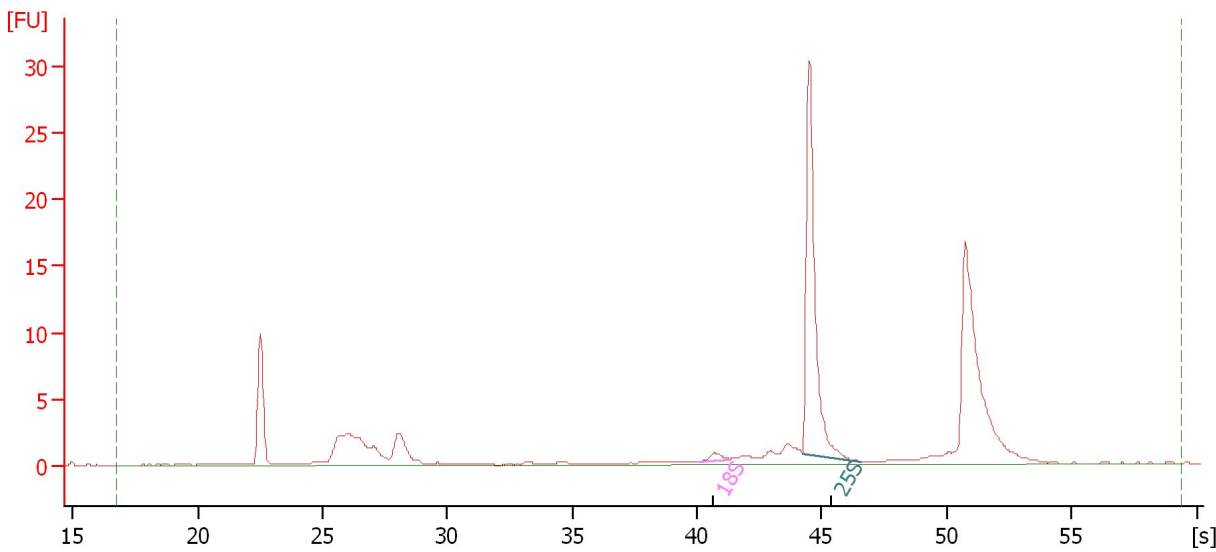
Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	44.35	46.77	10.1	32.7

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 ...**

Mv Stem Trichomes 3



**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:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	32.1	Result Flagging Label:	RIN: 7.70

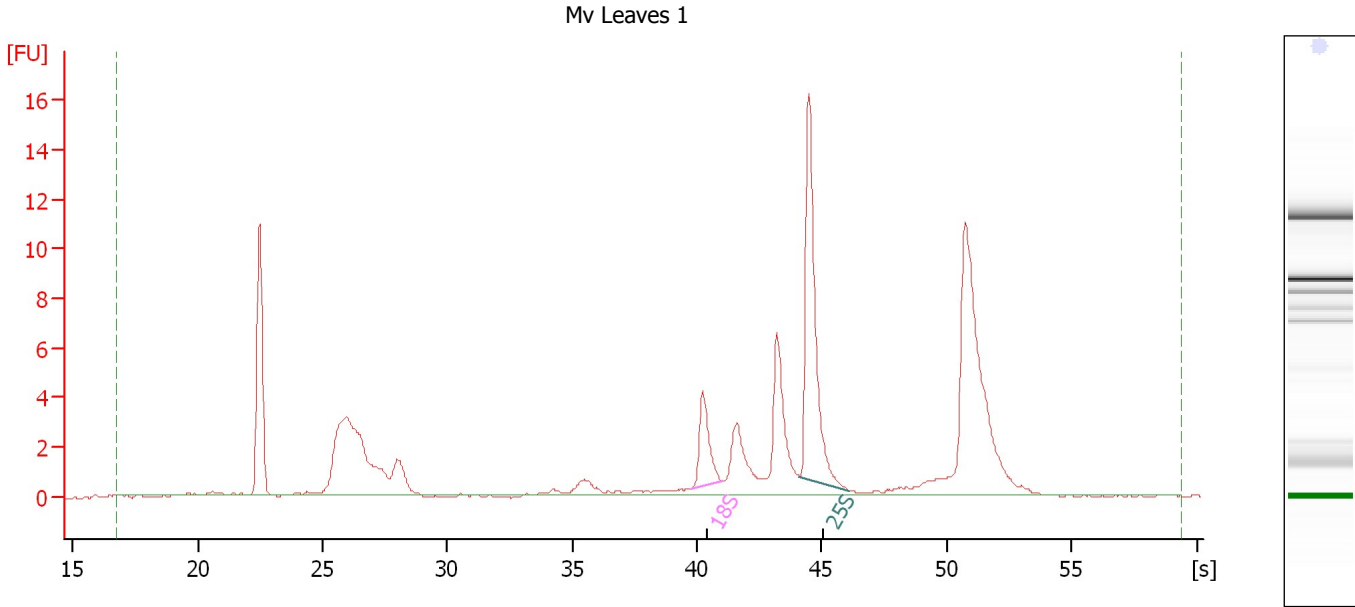
**Fragment table for sample 6 : Mv Stem Trichomes 3**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.10	41.30	0.8	0.9
25S	44.23	46.55	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:   
rRNA Ratio [25s / 18s]: 3.6      Result Flagging Label: RIN: 8.10

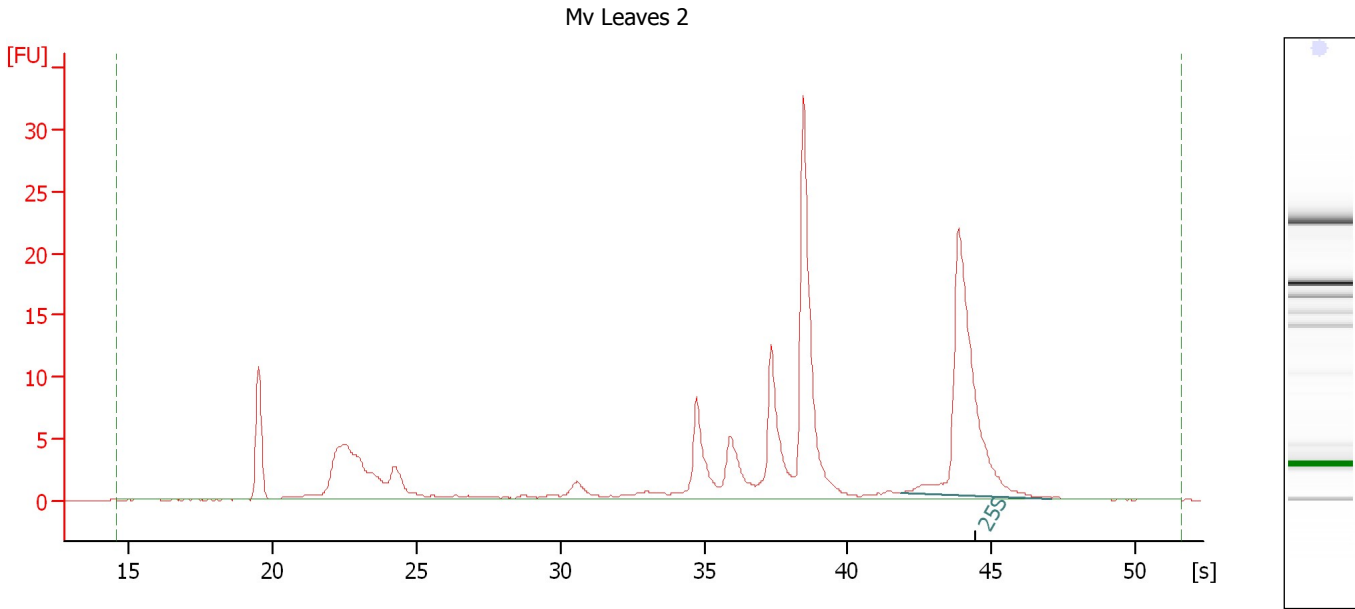
**Fragment table for sample 7 : Mv Leaves 1**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.75	41.04	4.1	4.9
25S	44.10	46.12	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:   
rRNA Ratio [25s / 18s]: 0.0      Result Flagging Label: RIN: 5.90

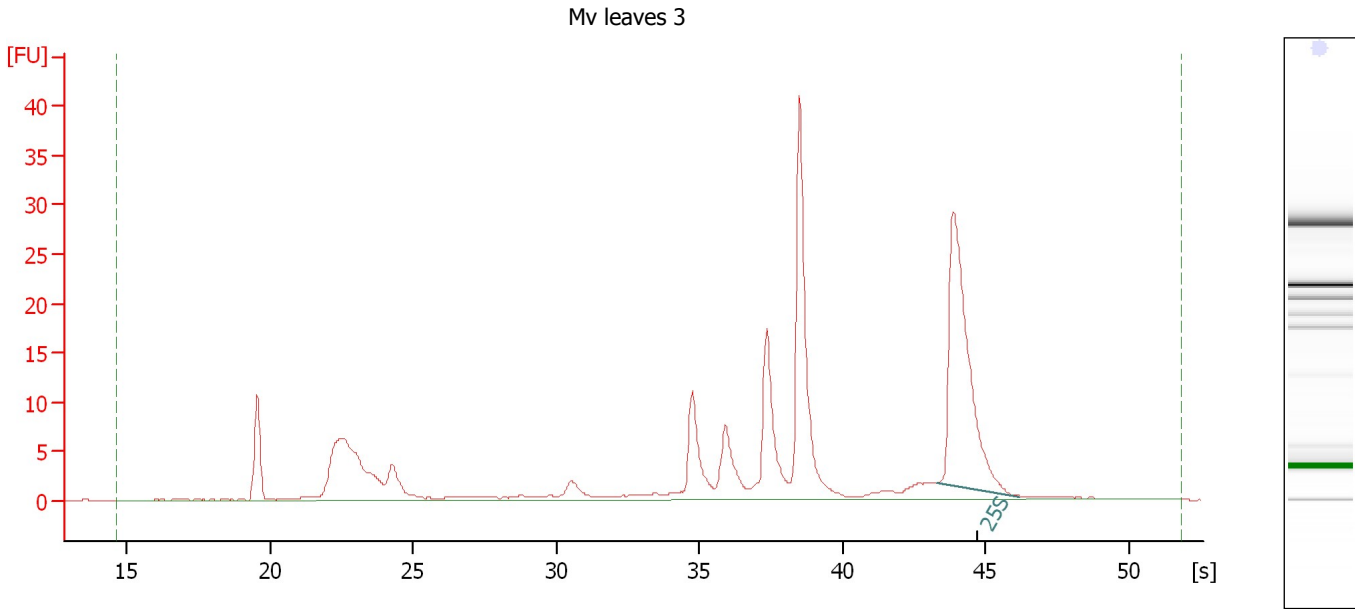
**Fragment table for sample 8 : Mv Leaves 2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	41.86	47.09	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:   
rRNA Ratio [25s / 18s]: 0.0                      Result Flagging Label: RIN: 5.90

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

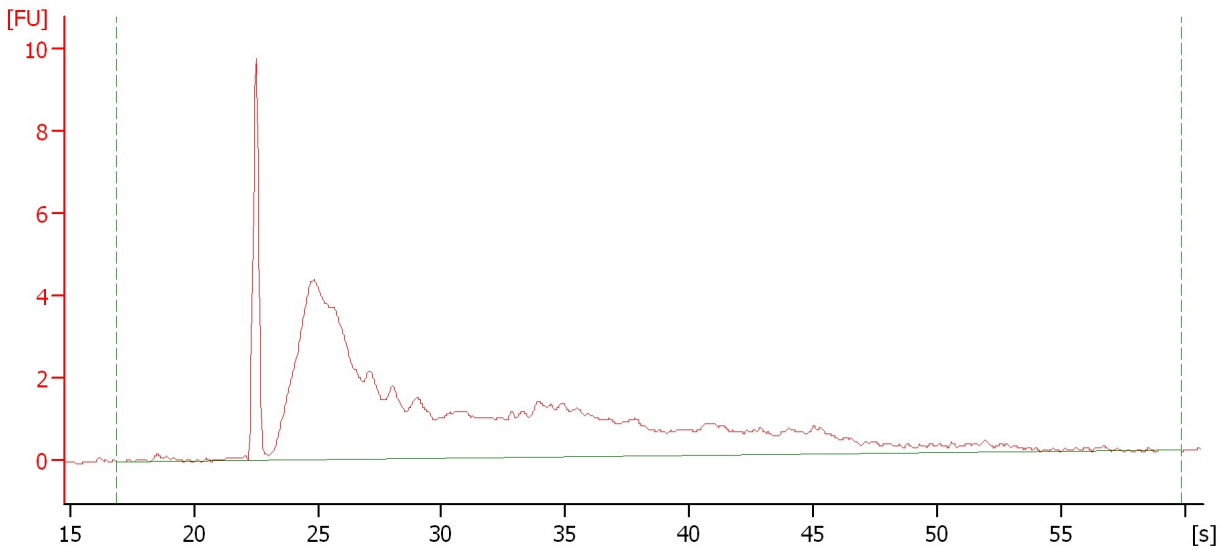
Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	43.31	46.20	48.1	25.6

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**

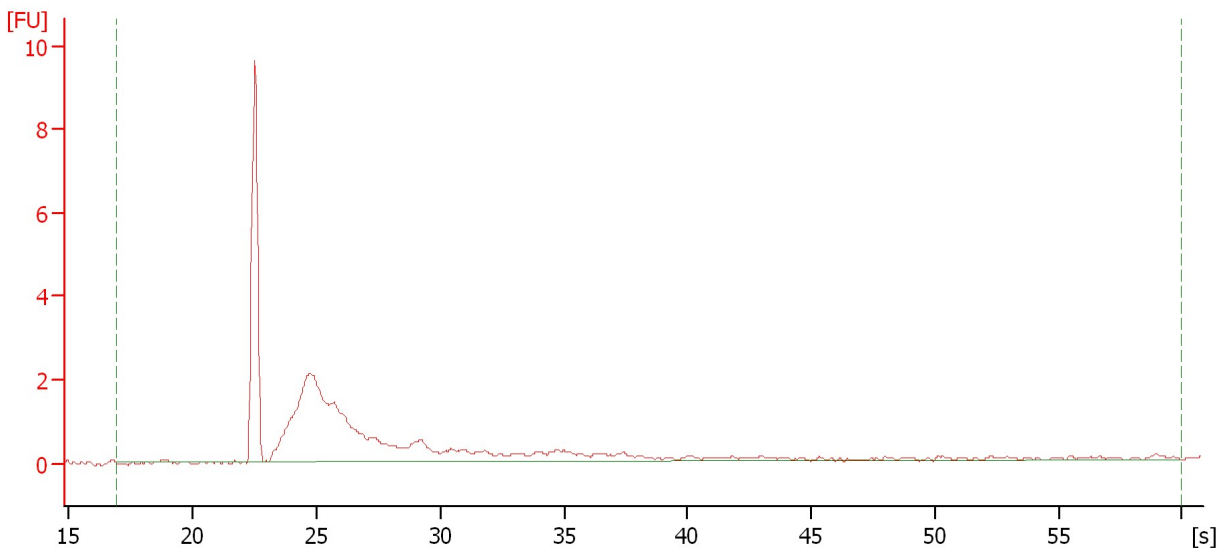
RNA Area:	96.9	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	131 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

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**

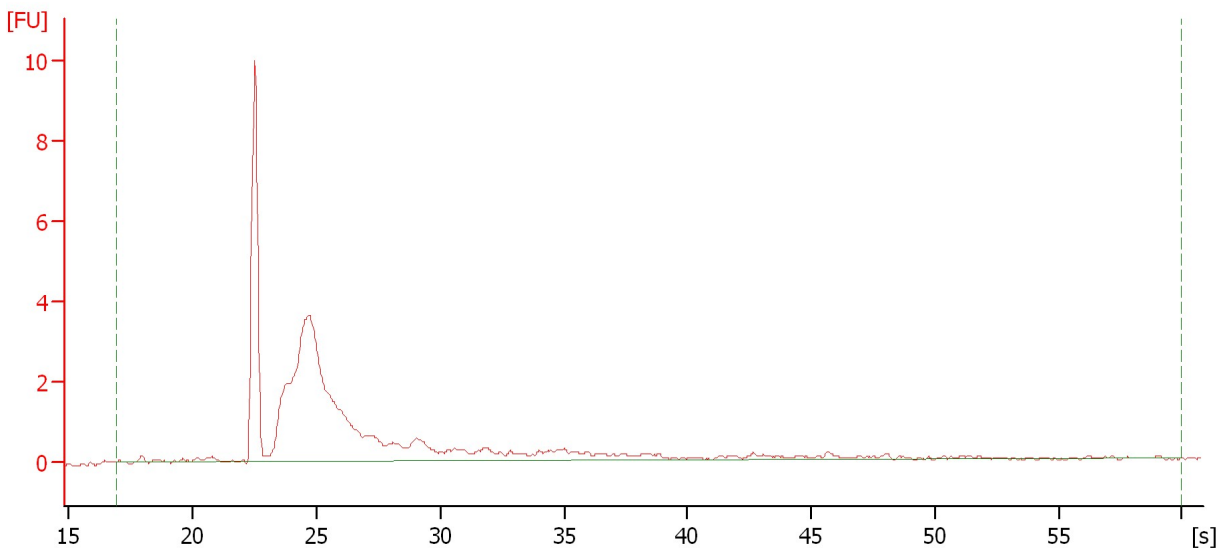
RNA Area:	28.9	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	39 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

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)**

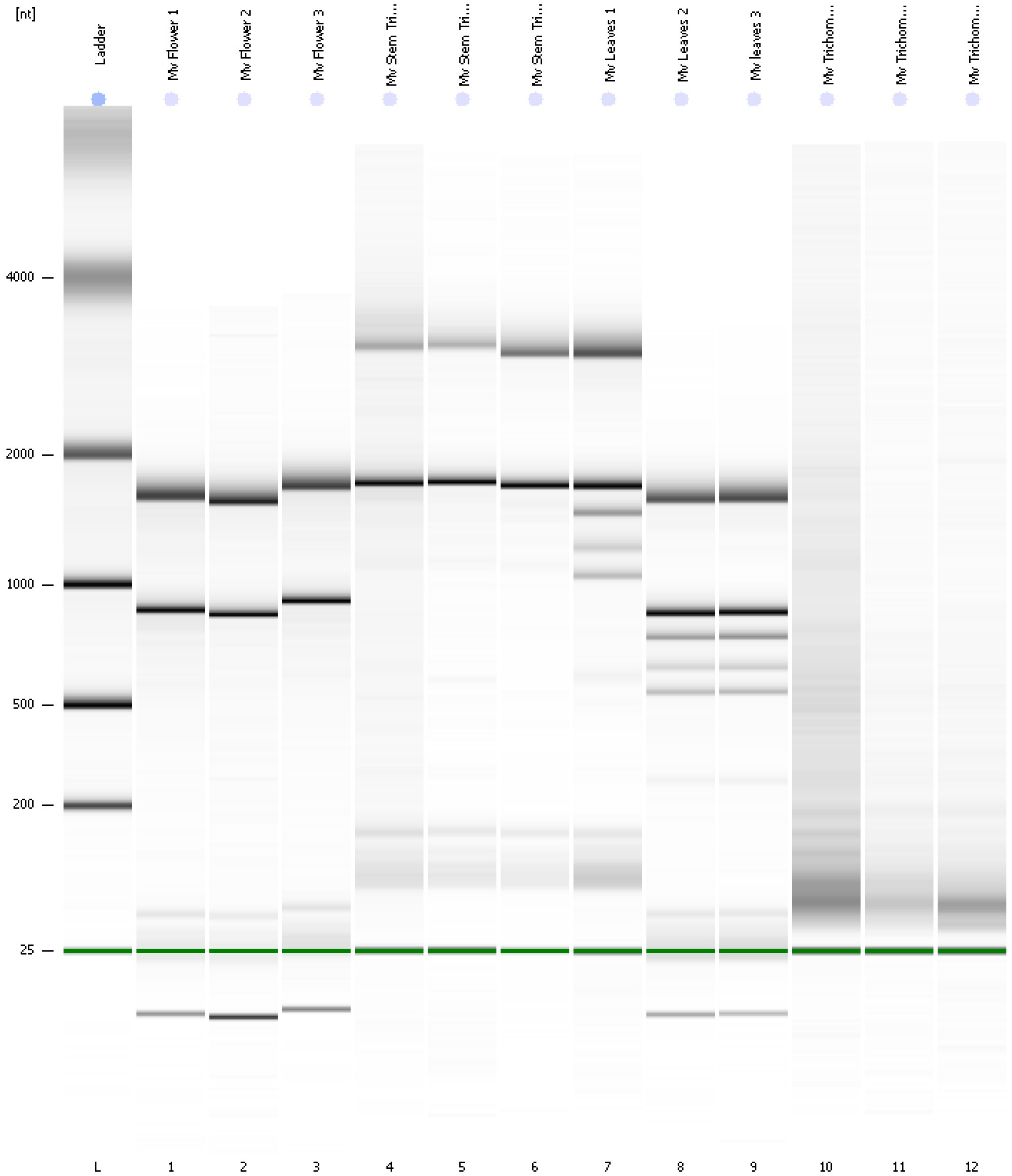
RNA Area:	40.5	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	55 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50



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**

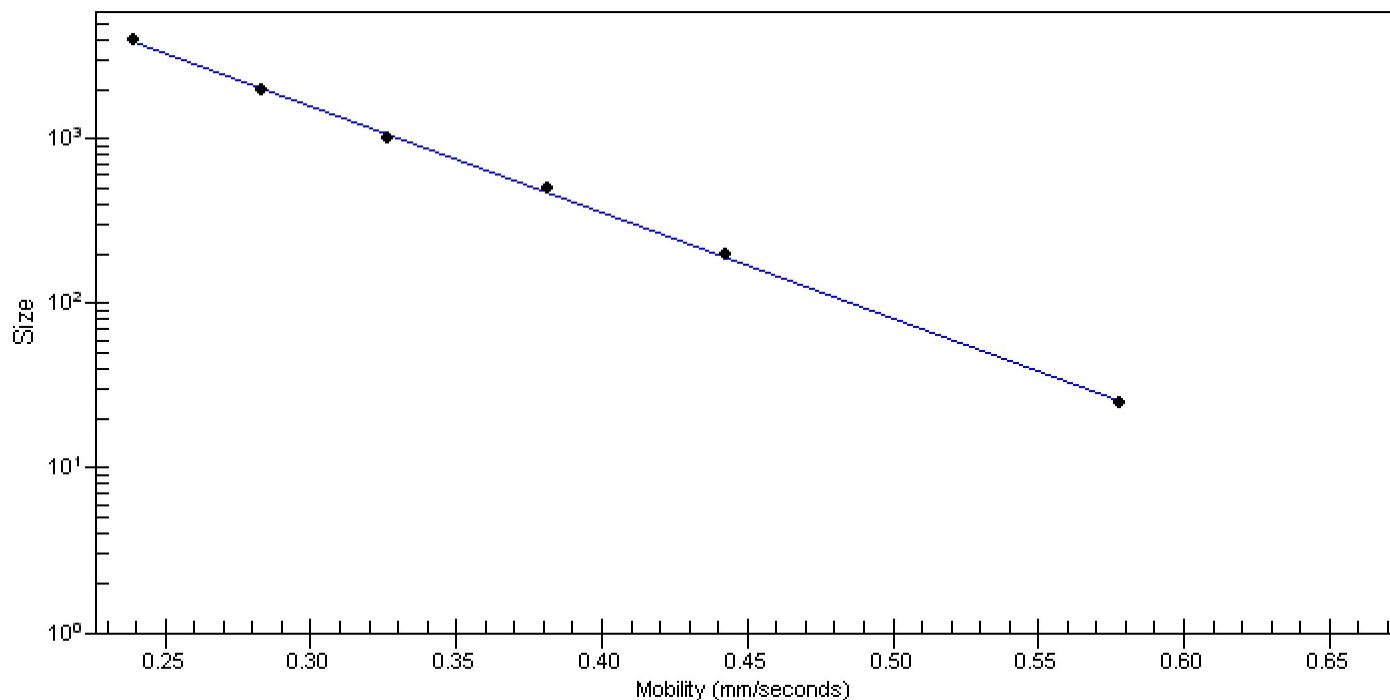


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27\_001.xad

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