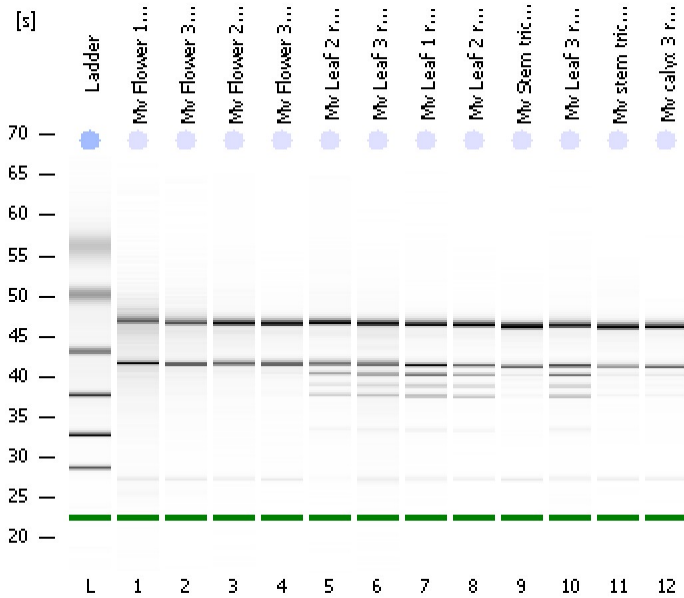


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 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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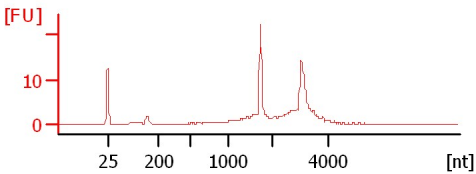
Chip Information:

Chip Lot #:

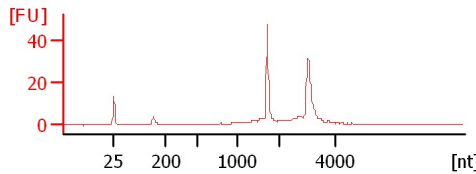
Reagent Kit Lot #:

Chip Comments:

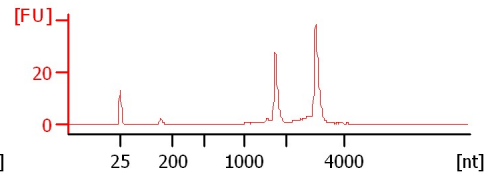
**Mv Flower 1 PZ**  
RIN: 8.30



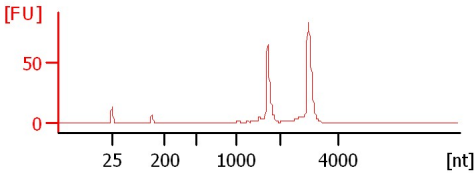
**Mv Flower 3 PZ**  
RIN: 9



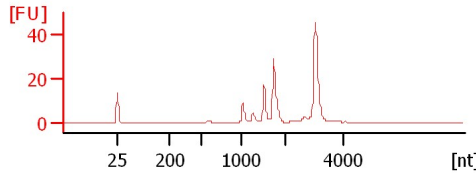
**Mv Flower 2 kit**  
RIN: 9.50



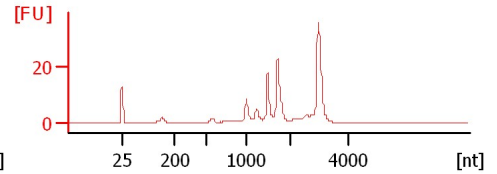
**Mv Flower 3 kit**  
RIN: 9.90



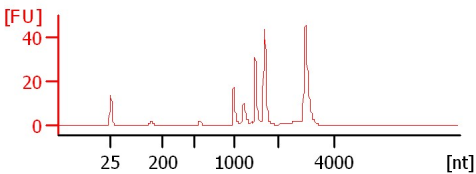
**Mv Leaf 2 rotation**  
RIN: 8.40



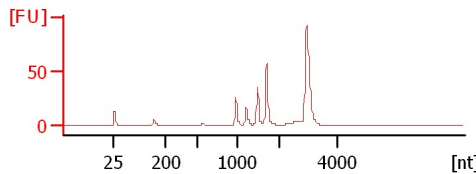
**Mv Leaf 3 rotation**  
RIN: 7.90



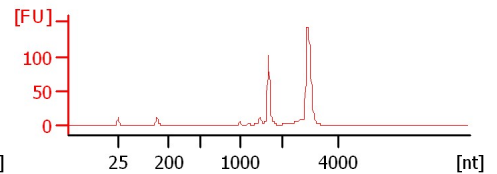
**Mv Leaf 1 recent**  
RIN: 7.20



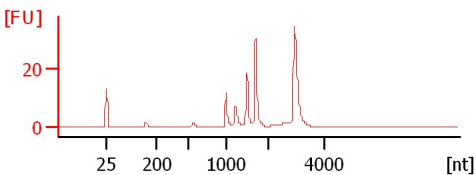
**Mv Leaf 2 recent**  
RIN: 8.10



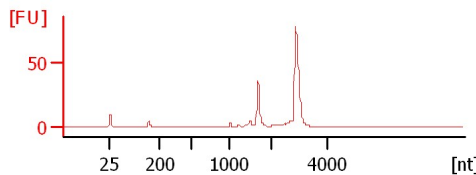
**Mv Stem trichomes 2 recent**  
RIN: 9.70



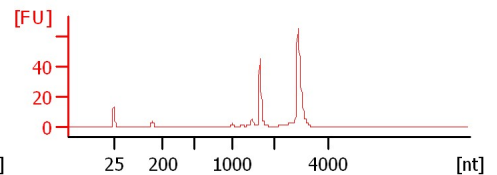
**Mv Leaf 3 recent**  
RIN: 7.60



**Mv stem trichomes 3 recent**  
RIN: 9.20



**Mv calyx 3 recent**  
RIN: 9.60



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Mv Flower 1 PZ		✓	RIN: 8.30	
Mv Flower 3 PZ		✓	RIN:9	
Mv Flower 2 kit		✓	RIN: 9.50	
Mv Flower 3 kit		✓	RIN: 9.90	
Mv Leaf 2 rotation		✓	RIN: 8.40	
Mv Leaf 3 rotation		✓	RIN: 7.90	
Mv Leaf 1 recent		✓	RIN: 7.20	
Mv Leaf 2 recent		✓	RIN: 8.10	
Mv Stem trichomes 2 recent		✓	RIN: 9.70	
Mv Leaf 3 recent		✓	RIN: 7.60	
Mv stem trichomes 3 recent		✓	RIN: 9.20	
Mv calyx 3 recent		✓	RIN: 9.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 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

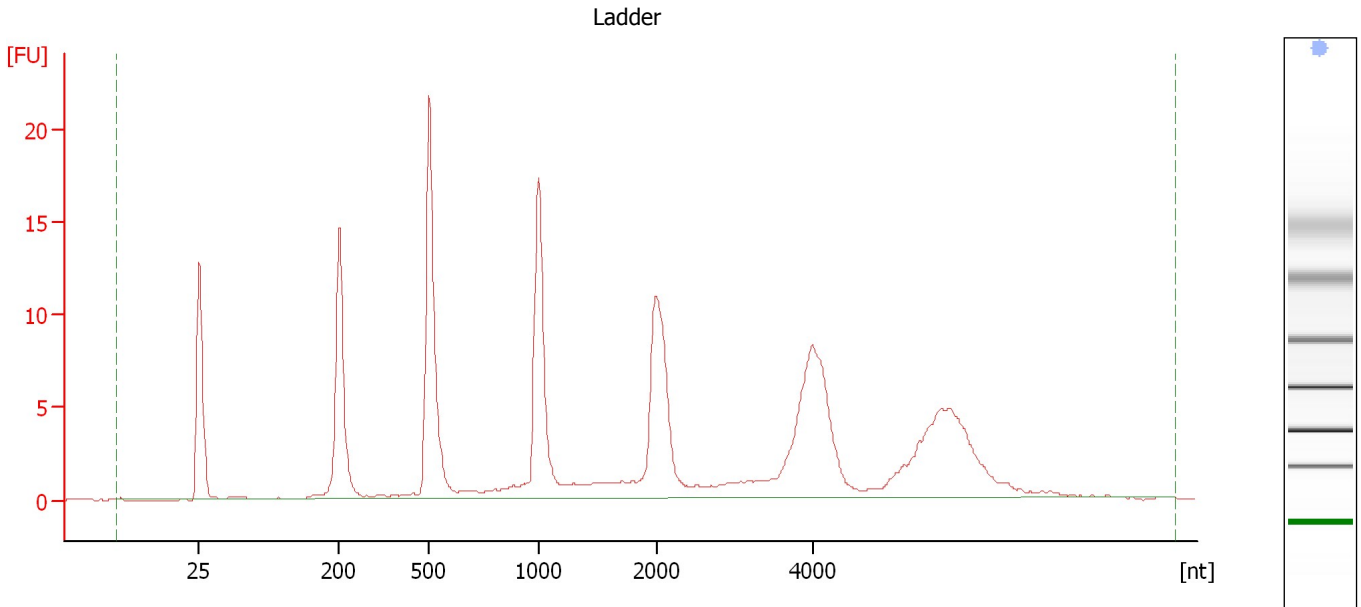
**Ladder**

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\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary**



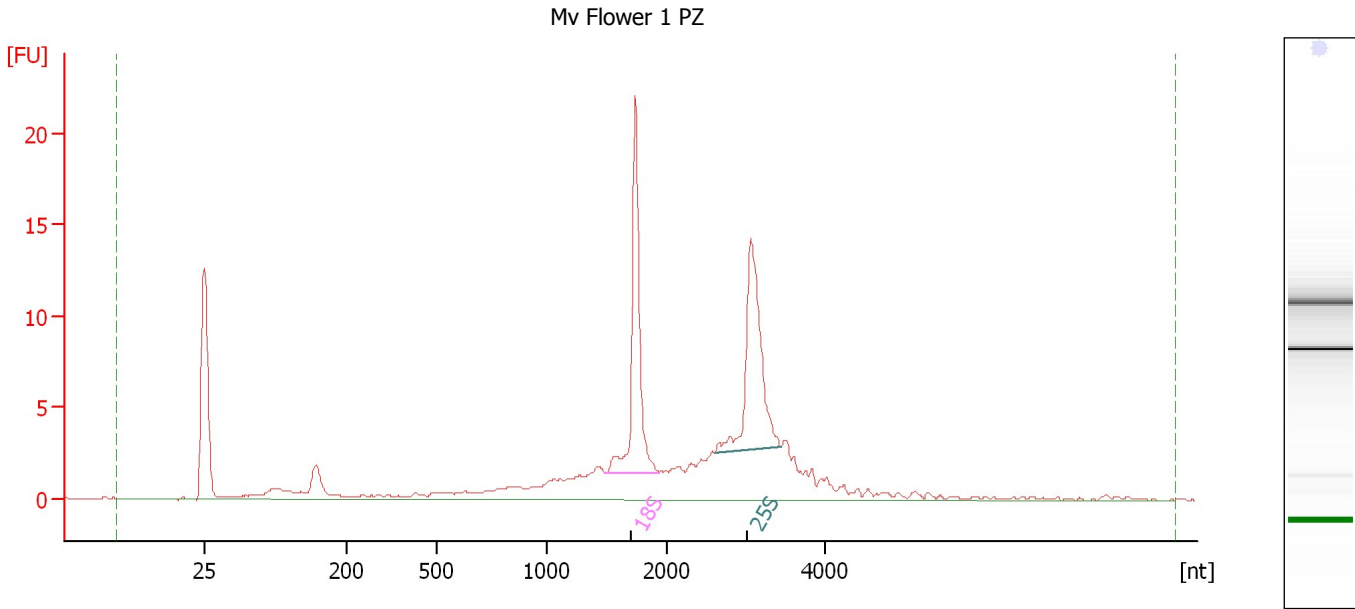
**Overall Results for Ladder**

RNA Area:	172.2	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\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 111.7 RNA Integrity Number (RIN): 8.3 (B.02.08)  
RNA Concentration: 97 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.0 Result Flagging Label: RIN: 8.30

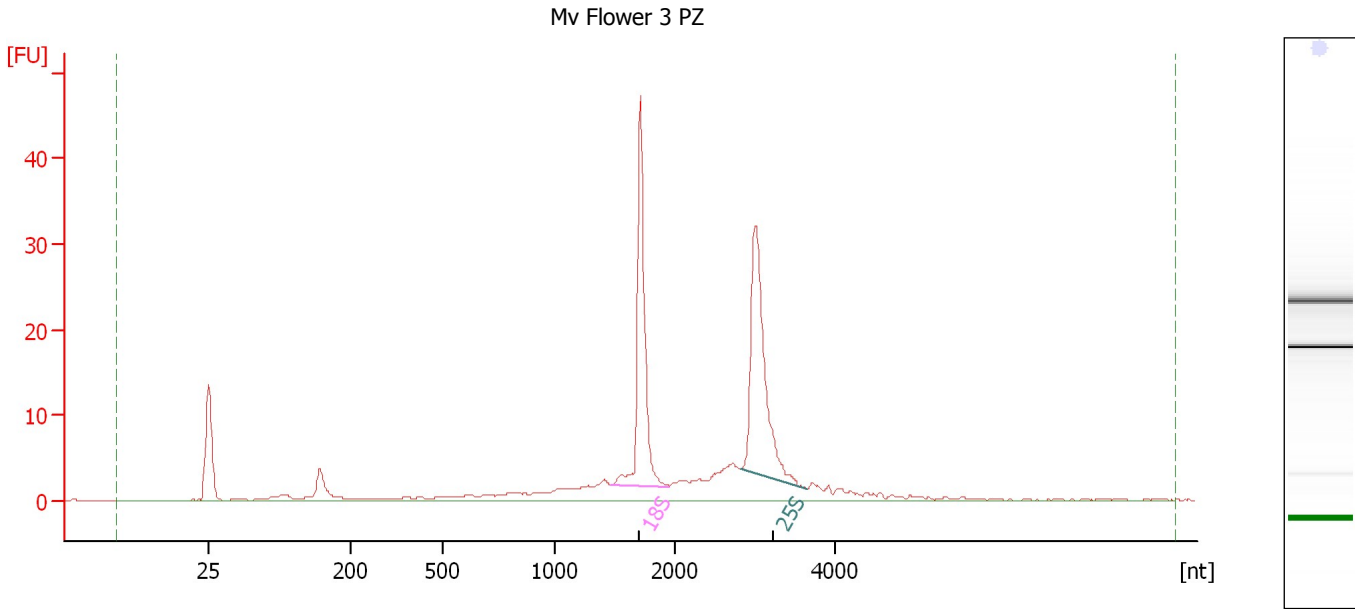
**Fragment table for sample 1 : Mv Flower 1 PZ**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,486	1,941	19.8	17.7
25S	2,602	3,455	18.9	16.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Mv Flower 3 PZ**

RNA Area: 176.1 RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 153 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1 Result Flagging Label: RIN:9

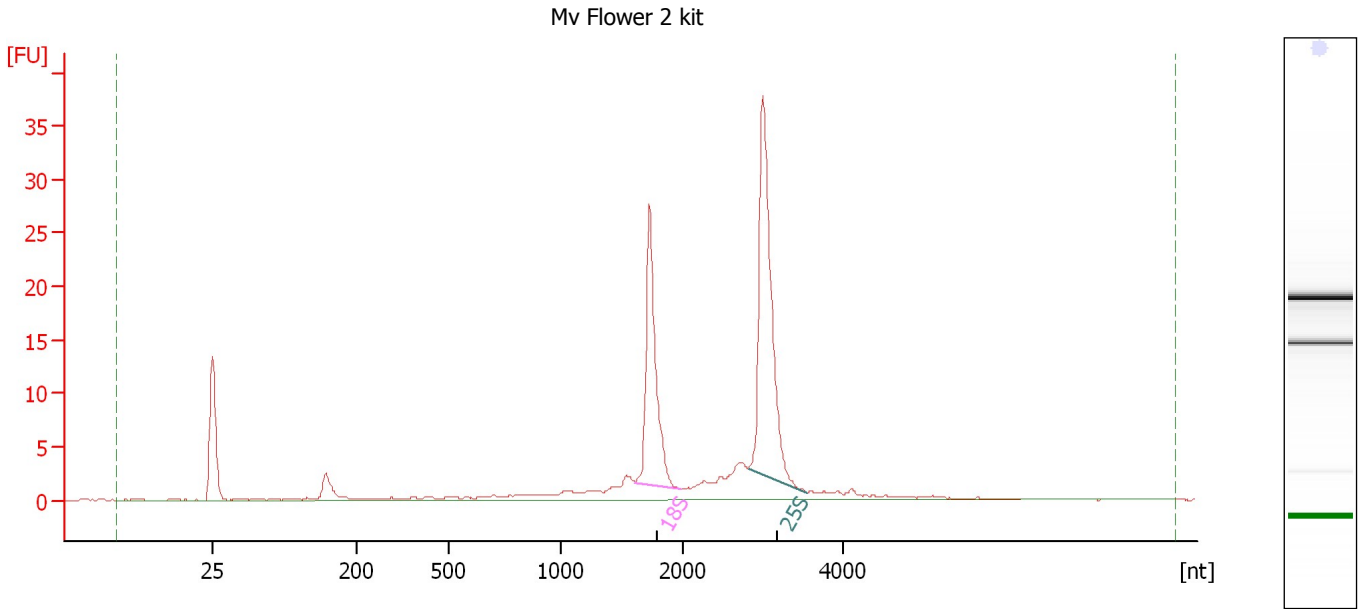
**Fragment table for sample 2 : Mv Flower 3 PZ**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,476	1,953	39.9	22.7
25S	2,829	3,649	43.4	24.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Mv Flower 2 kit**

RNA Area: 134.1 RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 117 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.6 Result Flagging Label: RIN: 9.50

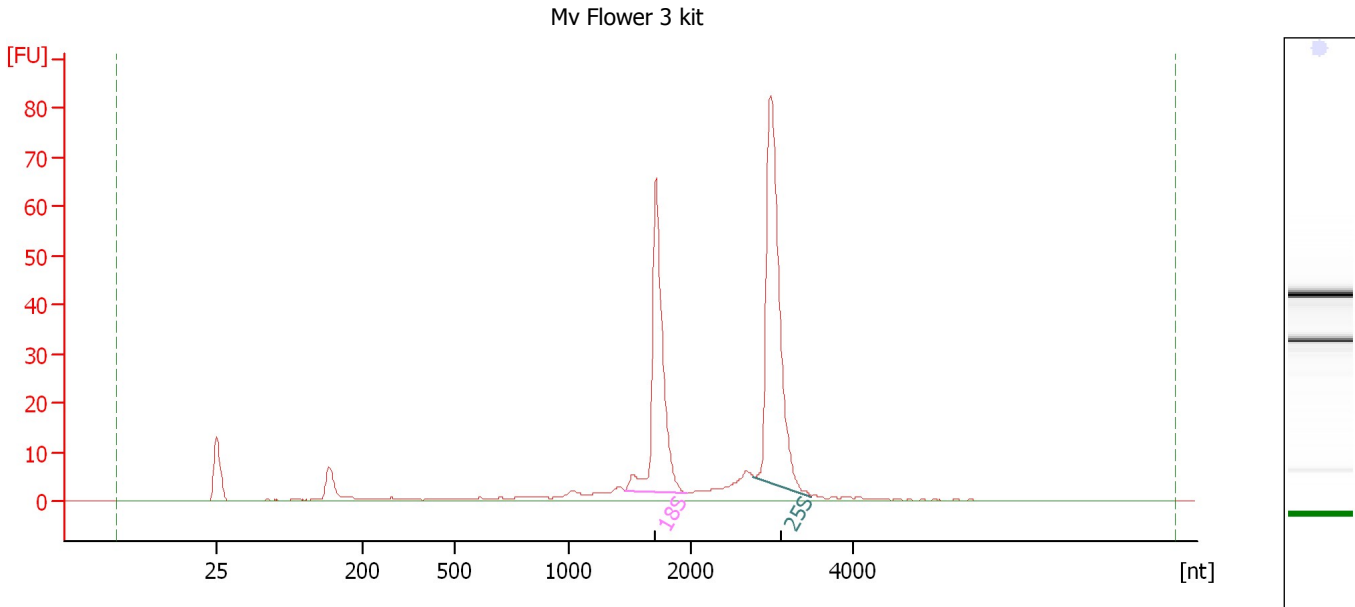
**Fragment table for sample 3 : Mv Flower 2 kit**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	1,974	29.9	22.3
25S	2,814	3,533	47.2	35.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Mv Flower 3 kit**

RNA Area: 286.1 RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 249 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 9.90

**Fragment table for sample 4 : Mv Flower 3 kit**

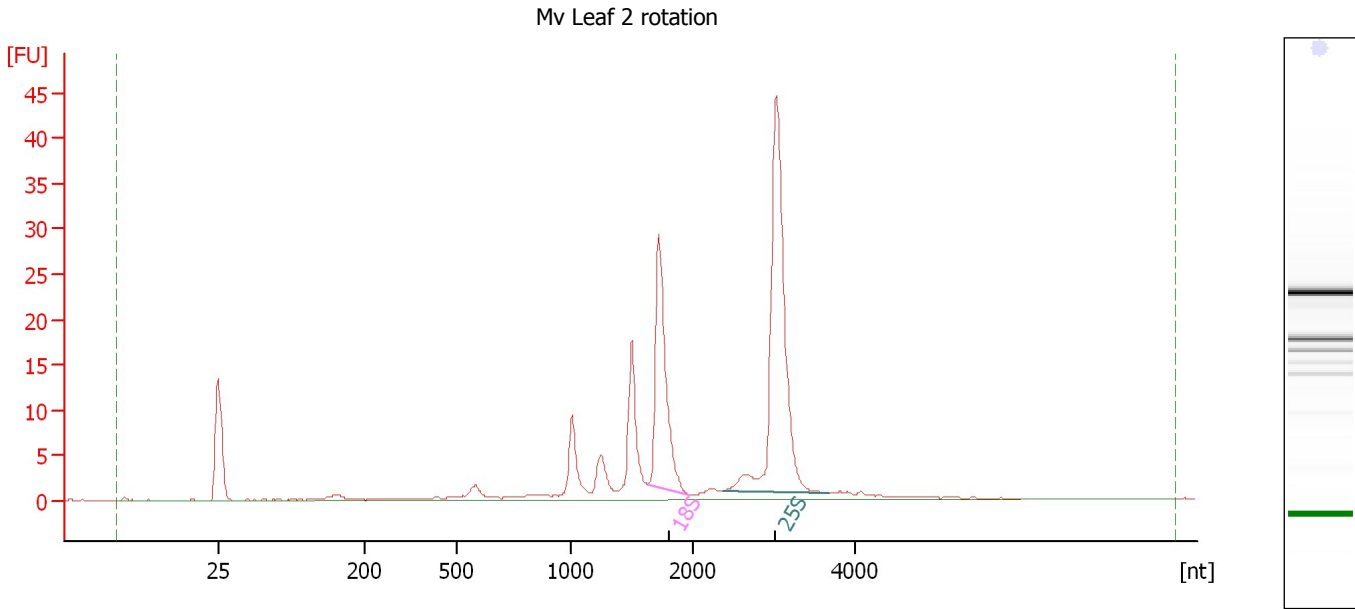
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,456	1,960	79.8	27.9
25S	2,772	3,485	108.0	37.8



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Mv Leaf 2 rotation**

RNA Area: 170.9 RNA Integrity Number (RIN): 8.4 (B.02.08)  
RNA Concentration: 149 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN: 8.40

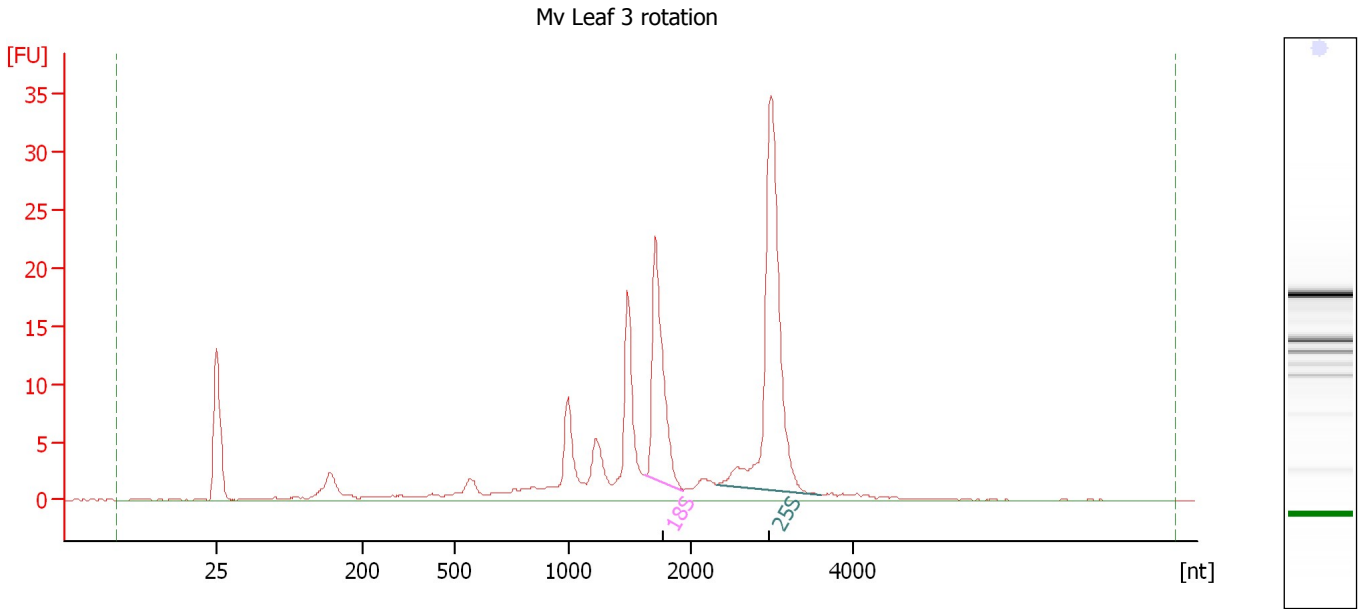
**Fragment table for sample 5 : Mv Leaf 2 rotation**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,960	32.9	19.3
25S	2,362	3,681	64.5	37.7

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Mv Leaf 3 rotation**

RNA Area: 171.3 RNA Integrity Number (RIN): 7.9 (B.02.08)  
RNA Concentration: 149 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN: 7.90

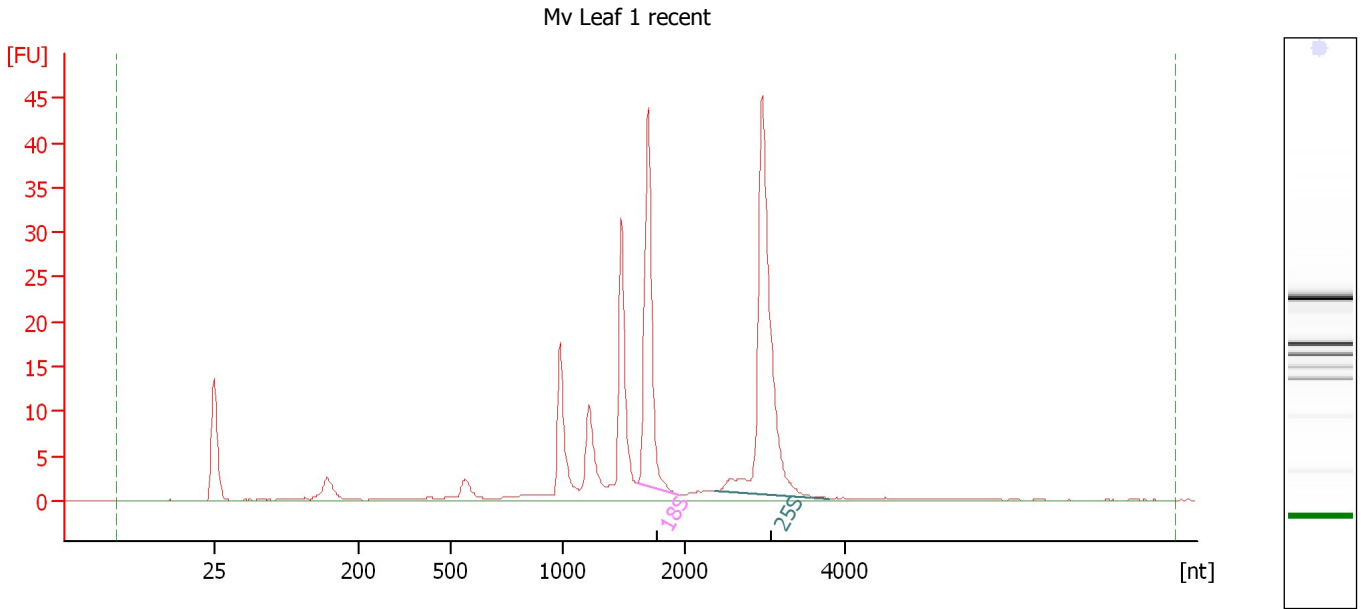
**Fragment table for sample 6 : Mv Leaf 3 rotation**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,621	1,934	26.4	15.4
25S	2,322	3,591	52.5	30.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Mv Leaf 1 recent**

RNA Area: 198.4                      RNA Integrity Number (RIN): 7.2 (B.02.08)  
RNA Concentration: 173 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.7              Result Flagging Label: RIN: 7.20

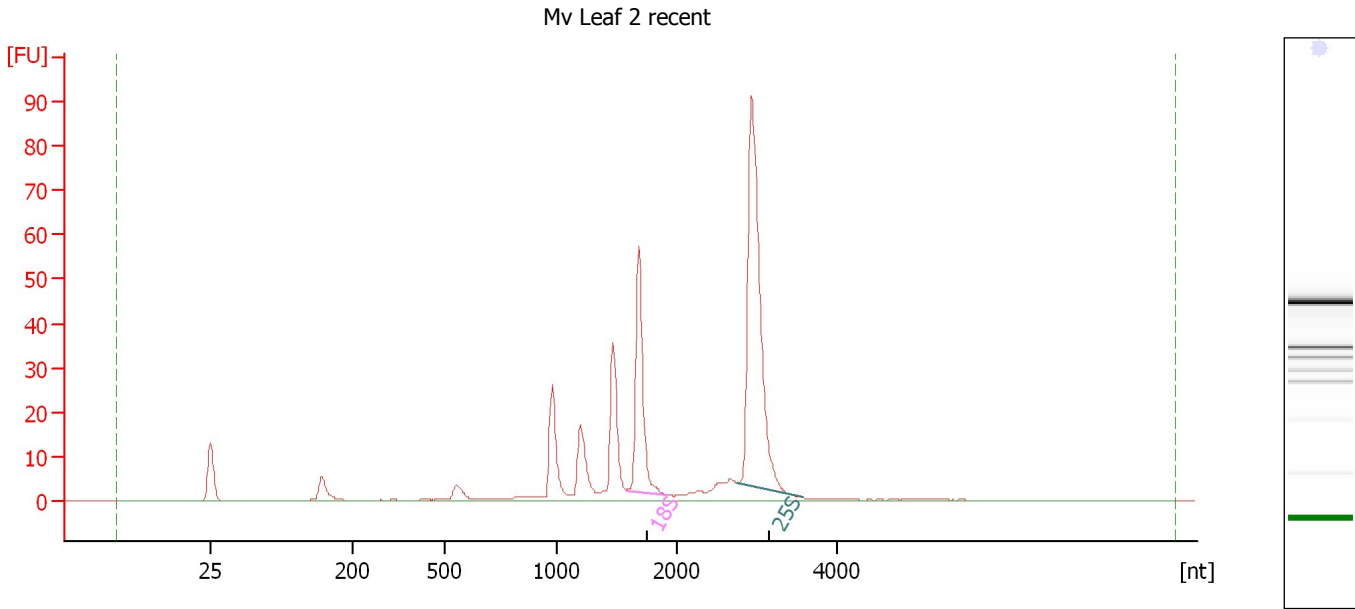
**Fragment table for sample 7 : Mv Leaf 1 recent**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,940	37.0	18.7
25S	2,361	3,784	61.6	31.0

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Mv Leaf 2 recent**

RNA Area: 309.2                      RNA Integrity Number (RIN): 8.1 (B.02.08)  
RNA Concentration: 269 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.3                      Result Flagging Label: RIN: 8.10

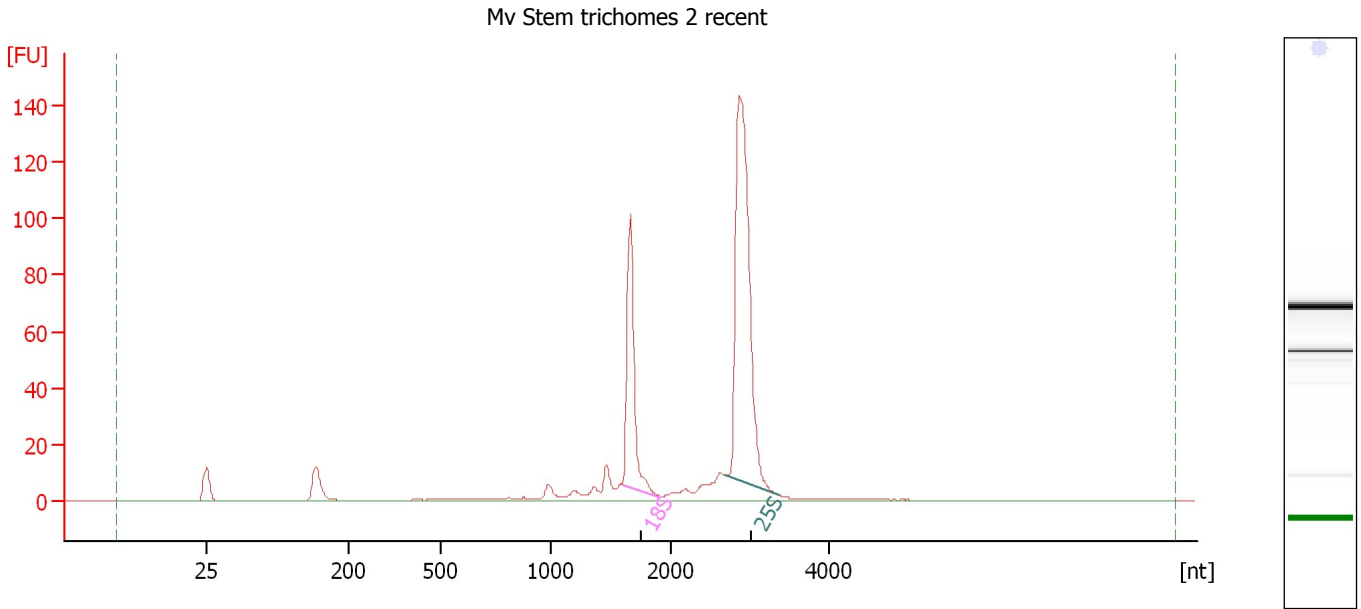
**Fragment table for sample 8 : Mv Leaf 2 recent**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,919	49.2	15.9
25S	2,748	3,580	115.5	37.4

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Mv Stem trichomes 2 recent**

RNA Area: 445.9 RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 388 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.6 Result Flagging Label: RIN: 9.70

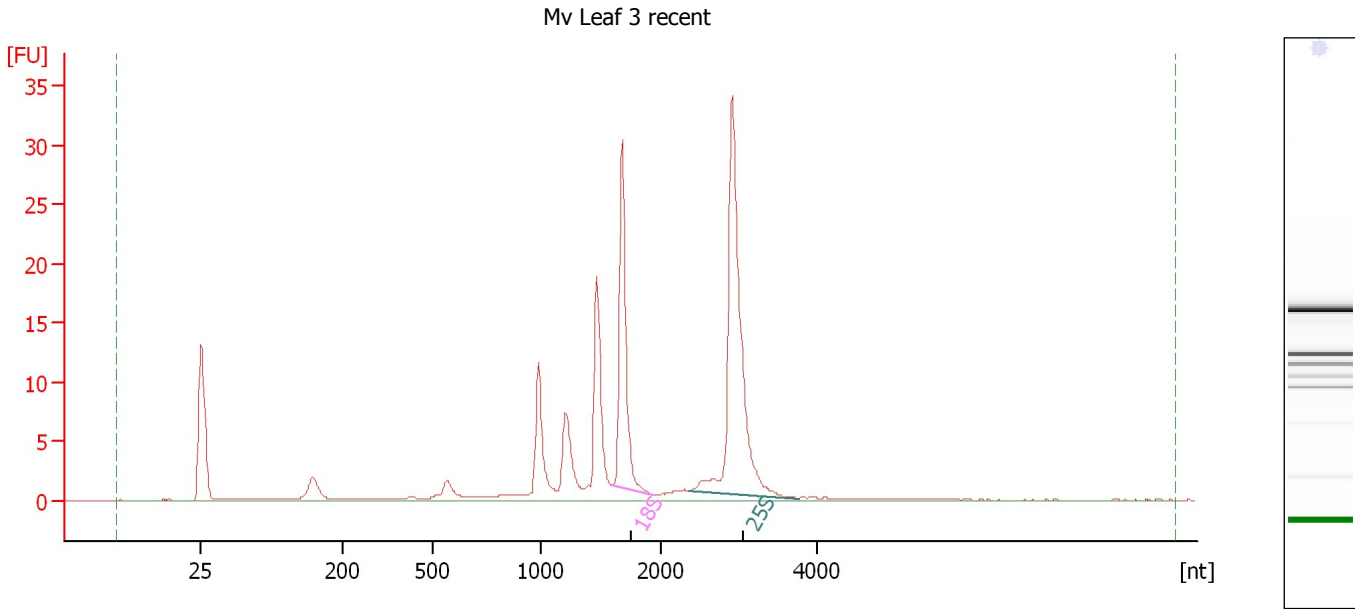
**Fragment table for sample 9 : Mv Stem trichomes 2 recent**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,596	1,907	80.0	17.9
25S	2,682	3,357	205.2	46.0

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Mv Leaf 3 recent**

RNA Area: 135.3 RNA Integrity Number (RIN): 7.6 (B.02.08)  
RNA Concentration: 118 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 7.60

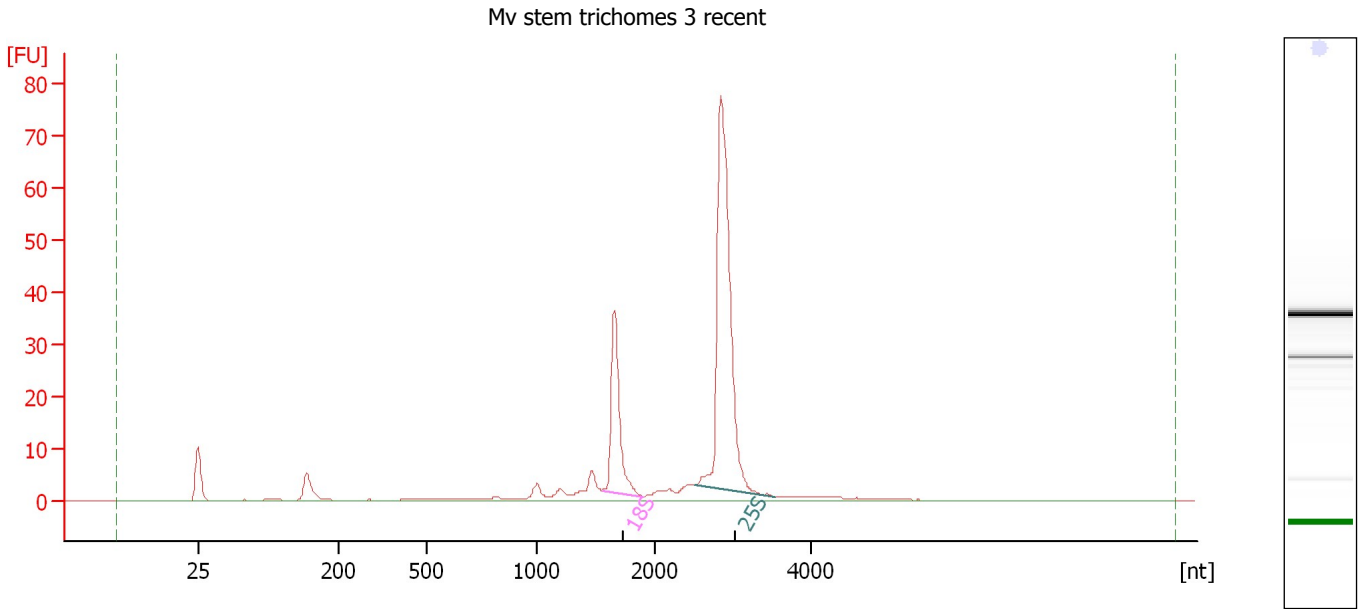
**Fragment table for sample 10 : Mv Leaf 3 recent**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	1,929	24.7	18.2
25S	2,356	3,761	47.3	34.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Mv stem trichomes 3 recent**

RNA Area: 218.1                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 190 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 3.2              Result Flagging Label: RIN: 9.20

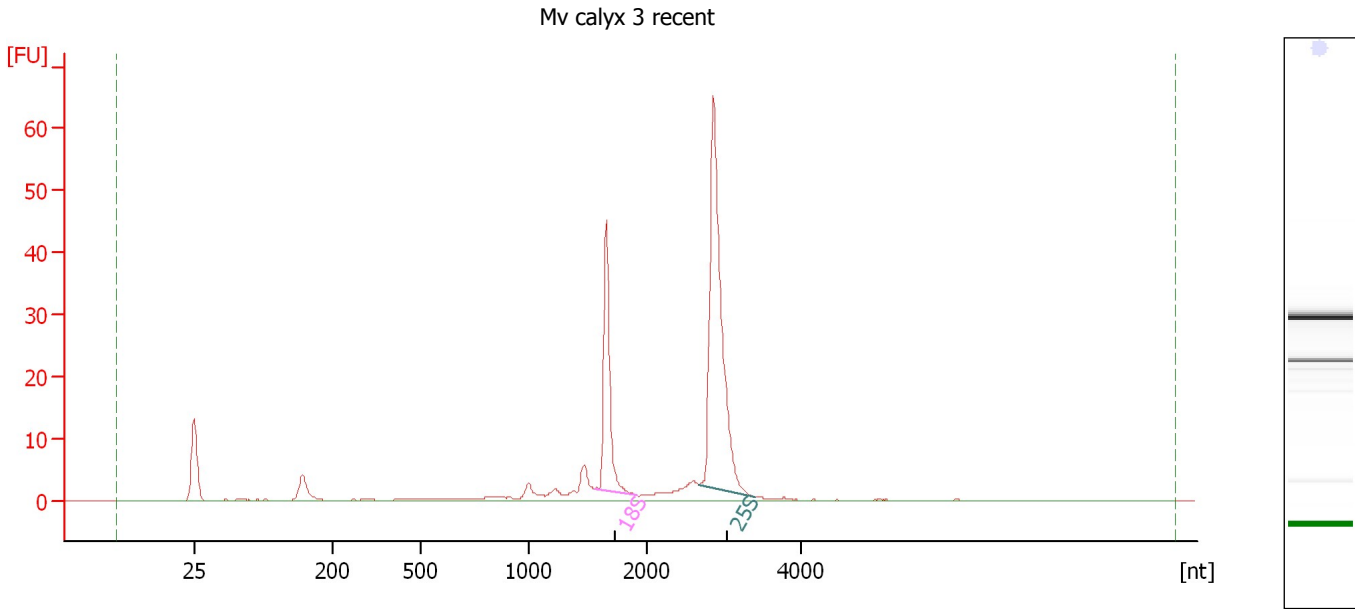
**Fragment table for sample 11 : Mv stem trichomes 3 recent**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	1,899	34.3	15.7
25S	2,506	3,536	108.6	49.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Mv calyx 3 recent**

RNA Area: 179.5 RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 156 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.3 Result Flagging Label: RIN: 9.60

**Fragment table for sample 12 : Mv calyx 3 recent**

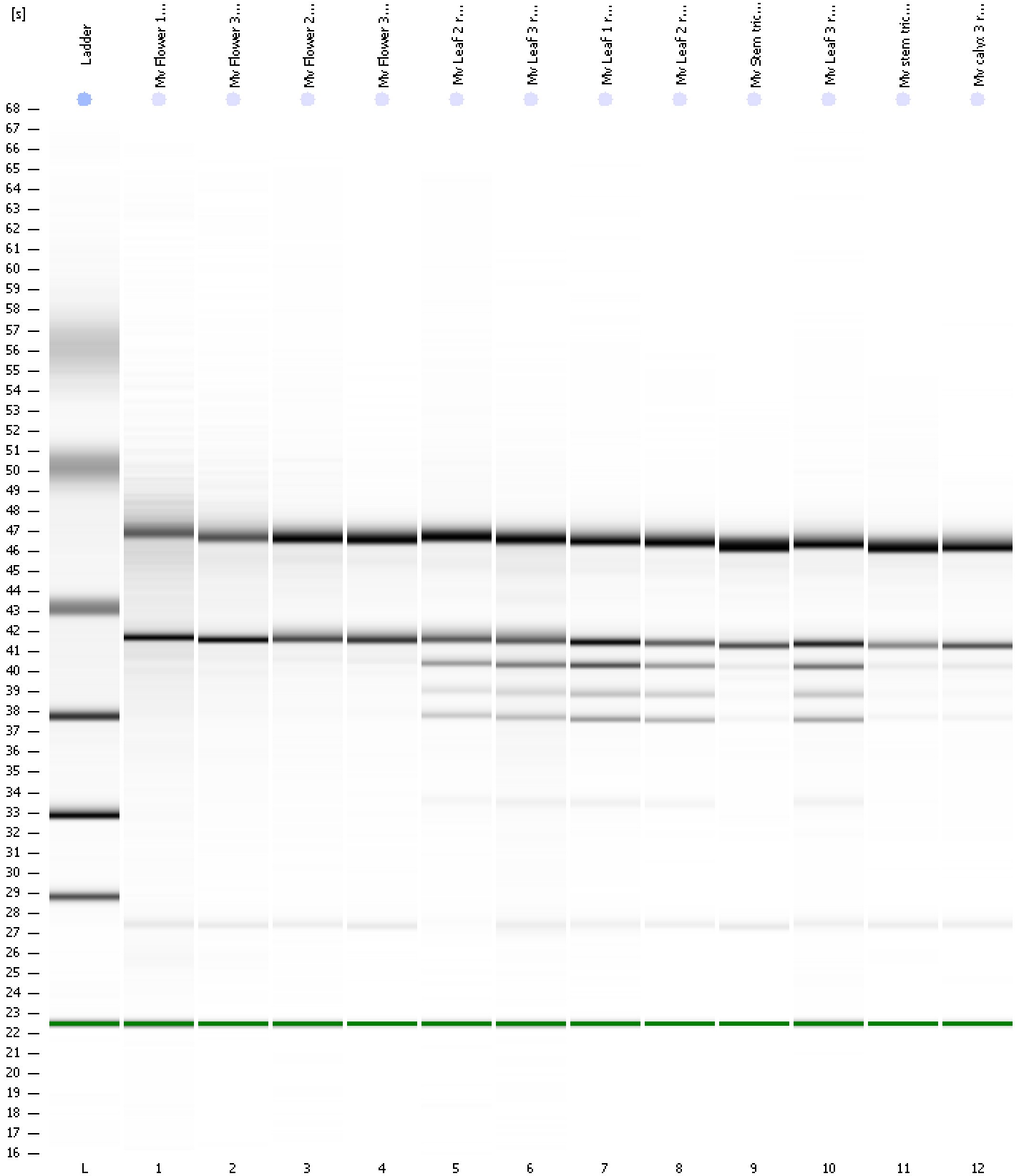
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,923	34.9	19.5
25S	2,672	3,406	81.2	45.2



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Gel Image**

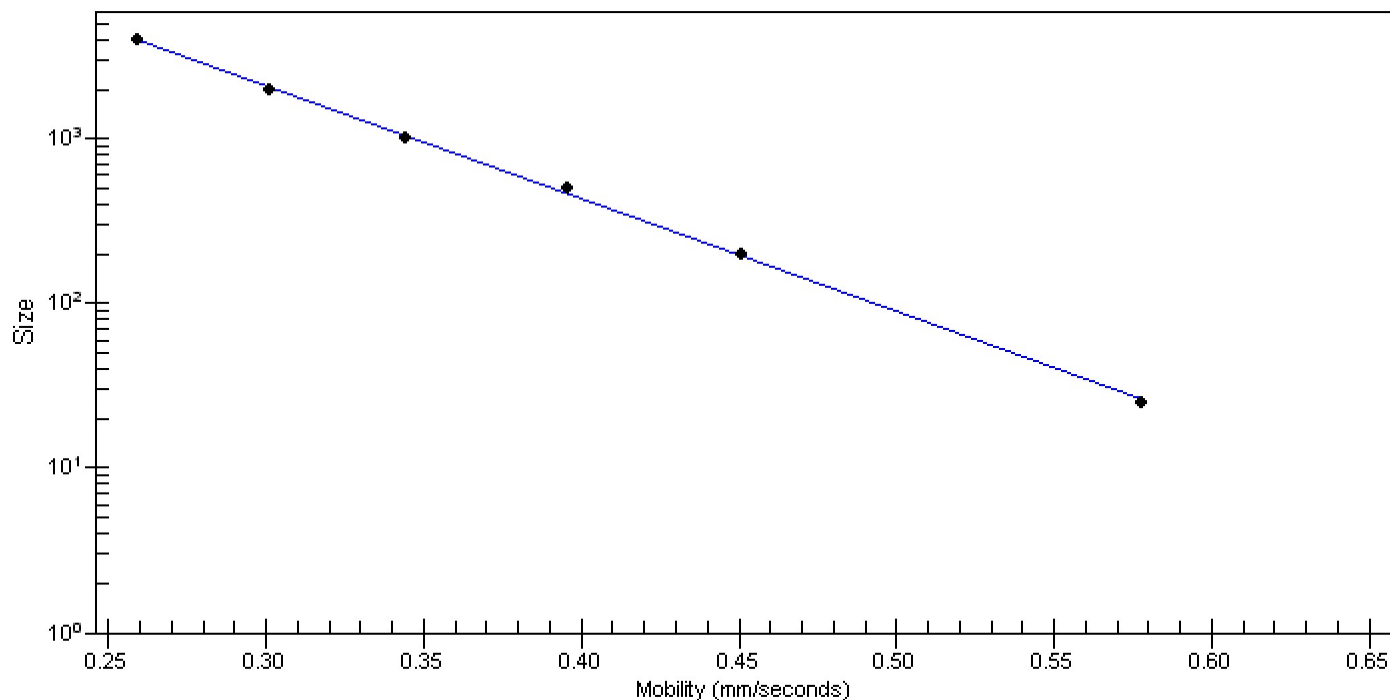


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
Modified: 11/3/2015 4:33:24 PM

**Curves**

**Standard Curve**



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03\_005.xad

Created: 11/3/2015 4:10:23 PM  
 Modified: 11/3/2015 4:33:24 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		11/3/2015 2:33:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-03\2015-11-03_005.xad)		Instrument	Run		11/3/2015 2:10:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/3/2015 2:10:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/3/2015 2:10:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/3/2015 2:10:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/3/2015 2:10:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/3/2015 2:10:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/3/2015 2:10:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1