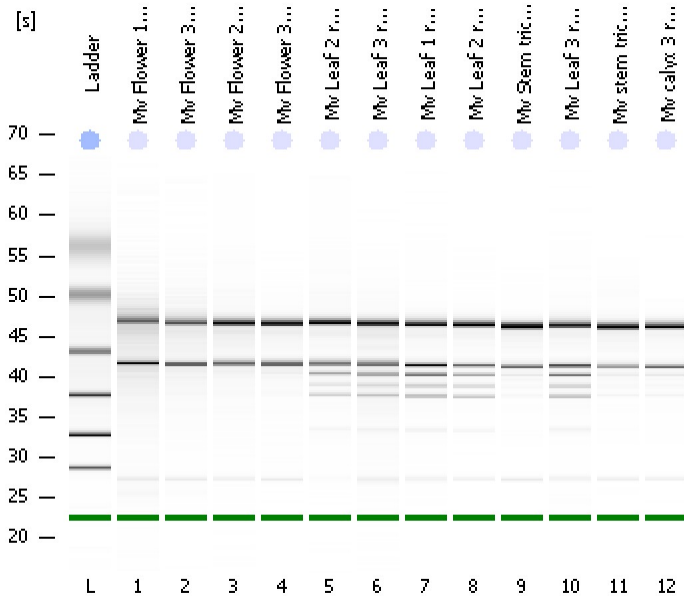


Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03_005.xad

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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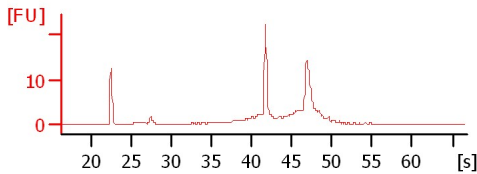
Chip Information:

Chip Lot #:

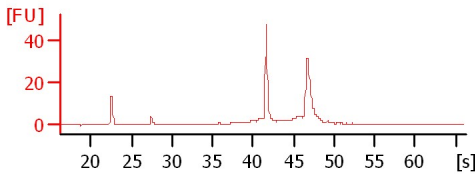
Reagent Kit Lot #:

Chip Comments:

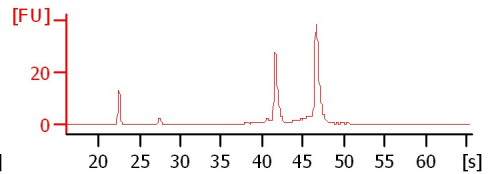
Mv Flower 1 PZ
 RIN: 8.30



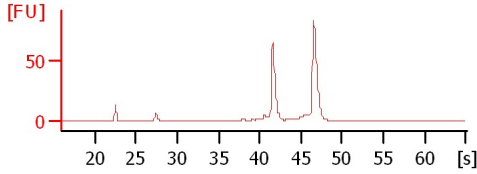
Mv Flower 3 PZ
 RIN: 9



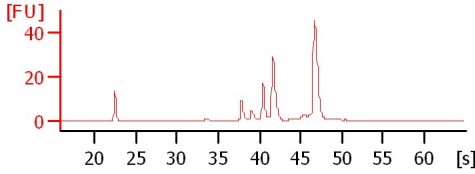
Mv Flower 2 kit
 RIN: 9.50



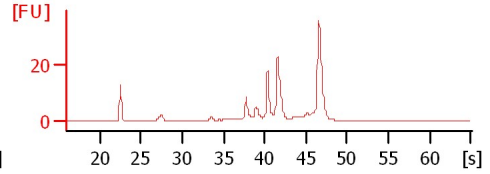
Mv Flower 3 kit
 RIN: 9.90



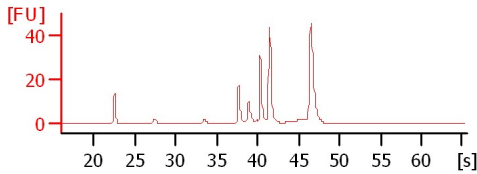
Mv Leaf 2 rotation
 RIN: 8.40



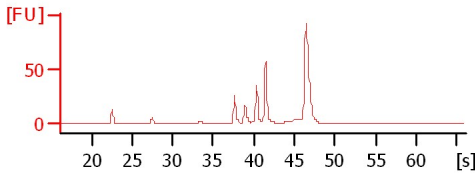
Mv Leaf 3 rotation
 RIN: 7.90



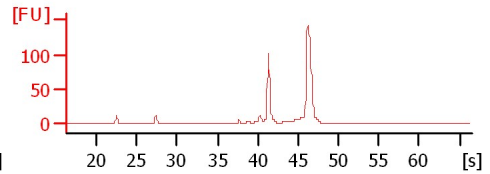
Mv Leaf 1 recent
 RIN: 7.20



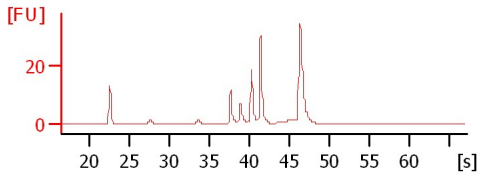
Mv Leaf 2 recent
 RIN: 8.10



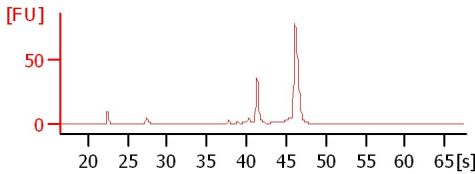
Mv Stem trichomes 2 recent
 RIN: 9.70



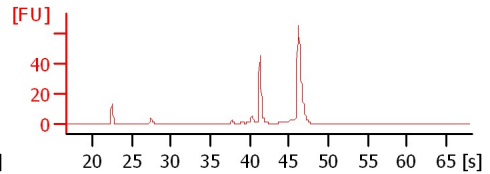
Mv Leaf 3 recent
 RIN: 7.60



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

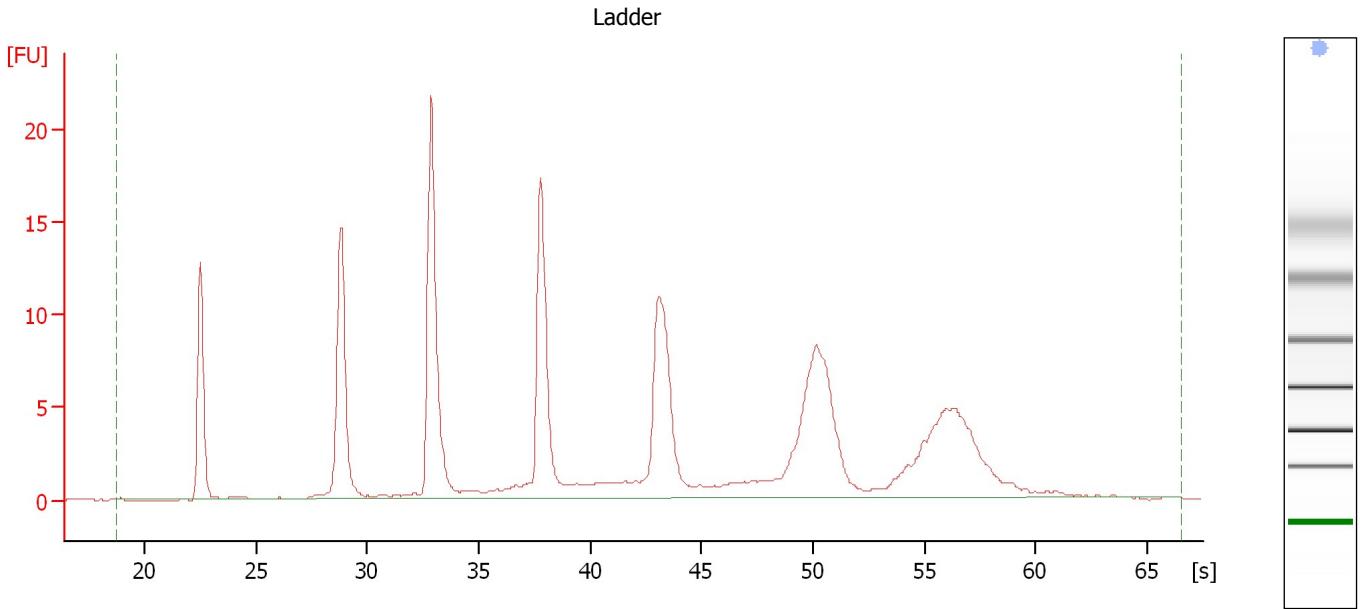
Ladder

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



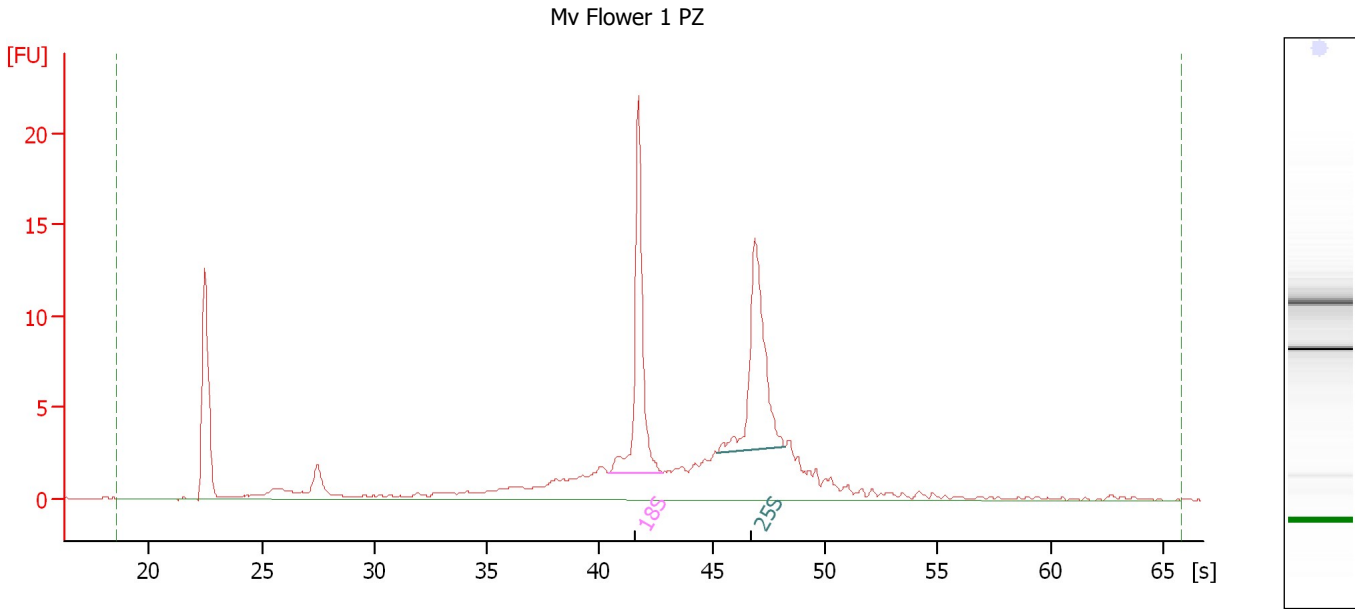
Overall Results for Ladder

RNA Area:	172.2	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	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

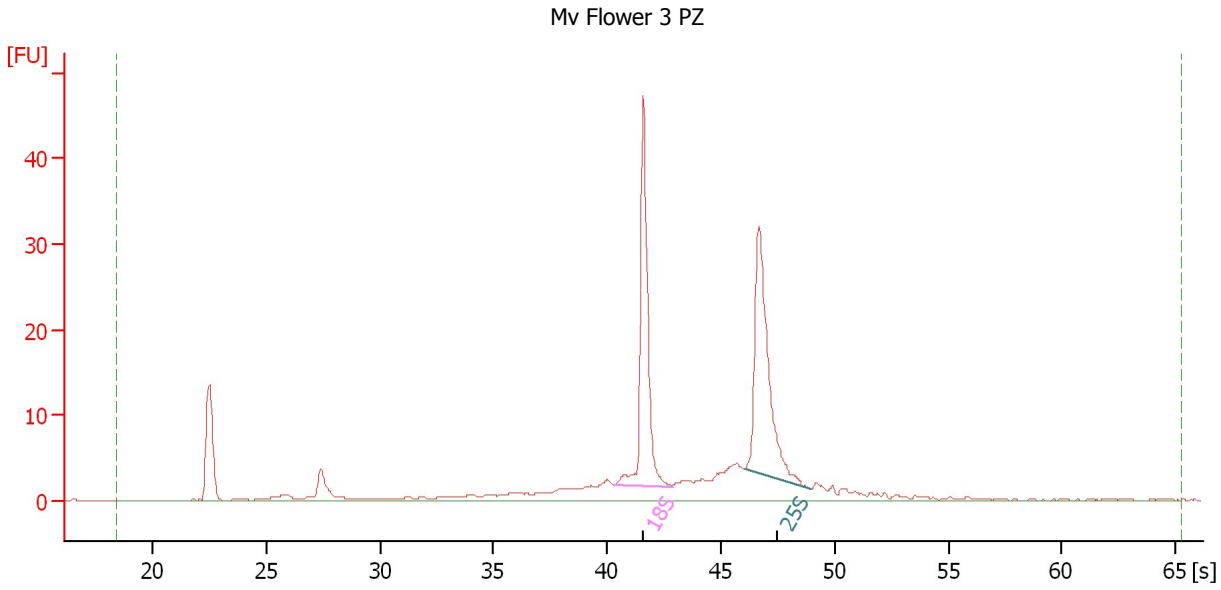
Fragment table for sample 1 : Mv Flower 1 PZ

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.38	42.81	19.8	17.7
25S	45.24	48.24	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

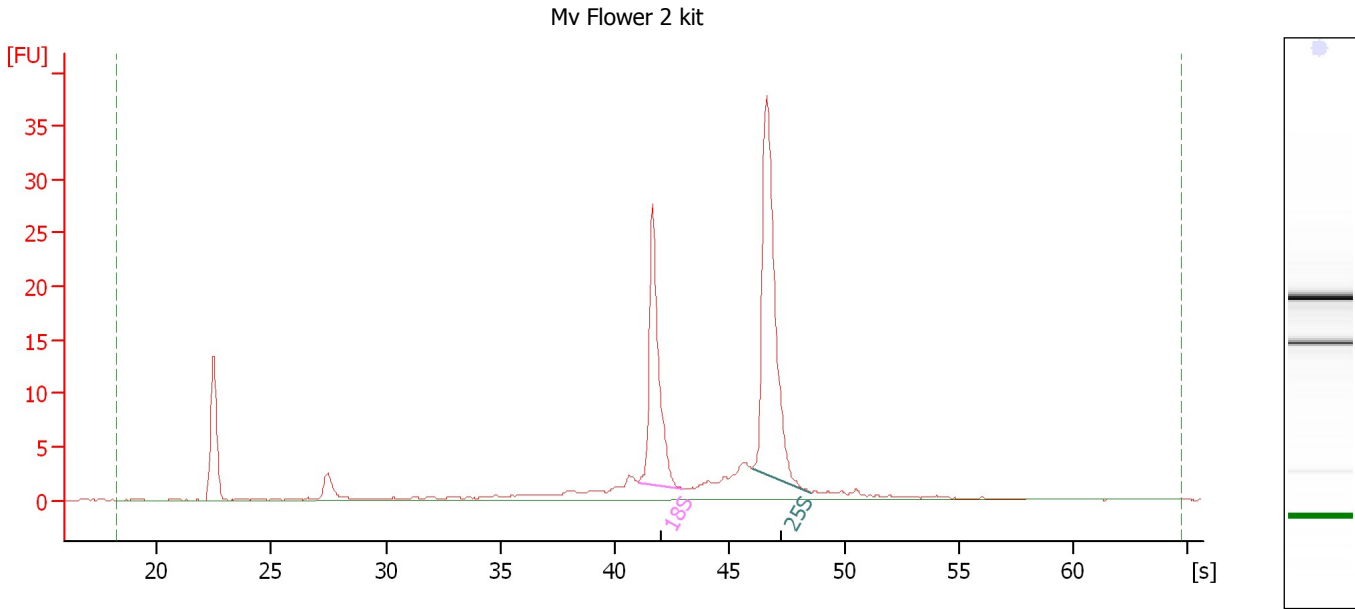
Fragment table for sample 2 : Mv Flower 3 PZ

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.32	42.87	39.9	22.7
25S	46.04	48.92	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

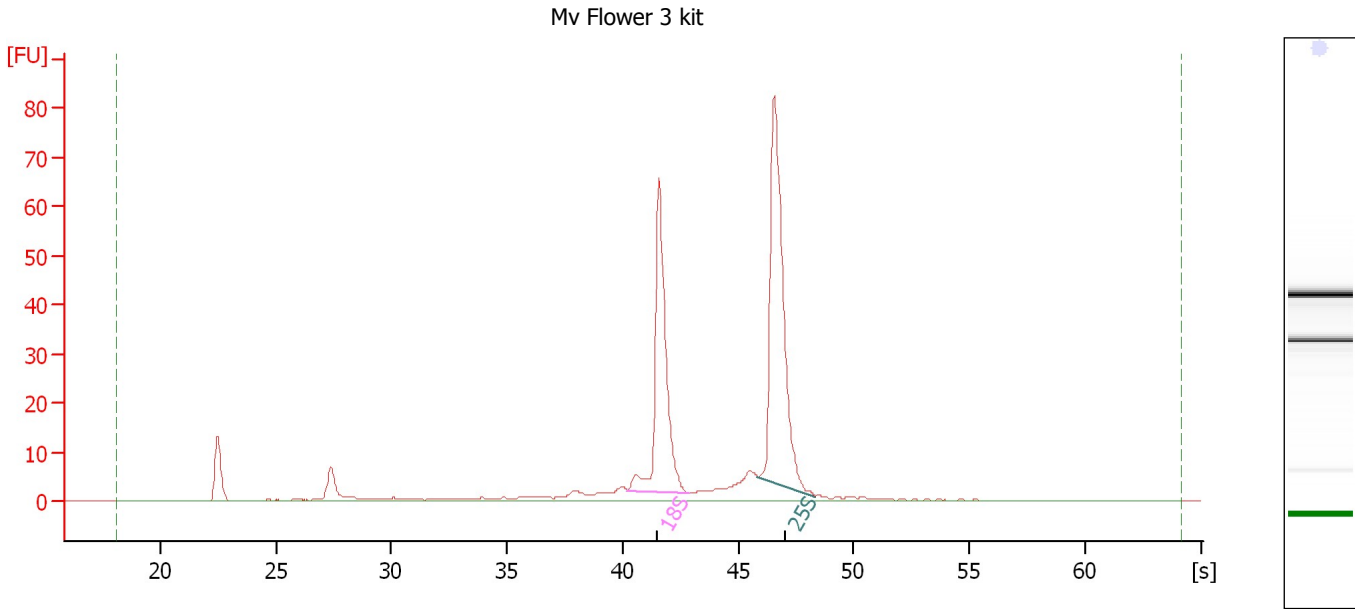
Fragment table for sample 3 : Mv Flower 2 kit

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.02	42.98	29.9	22.3
25S	45.98	48.52	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

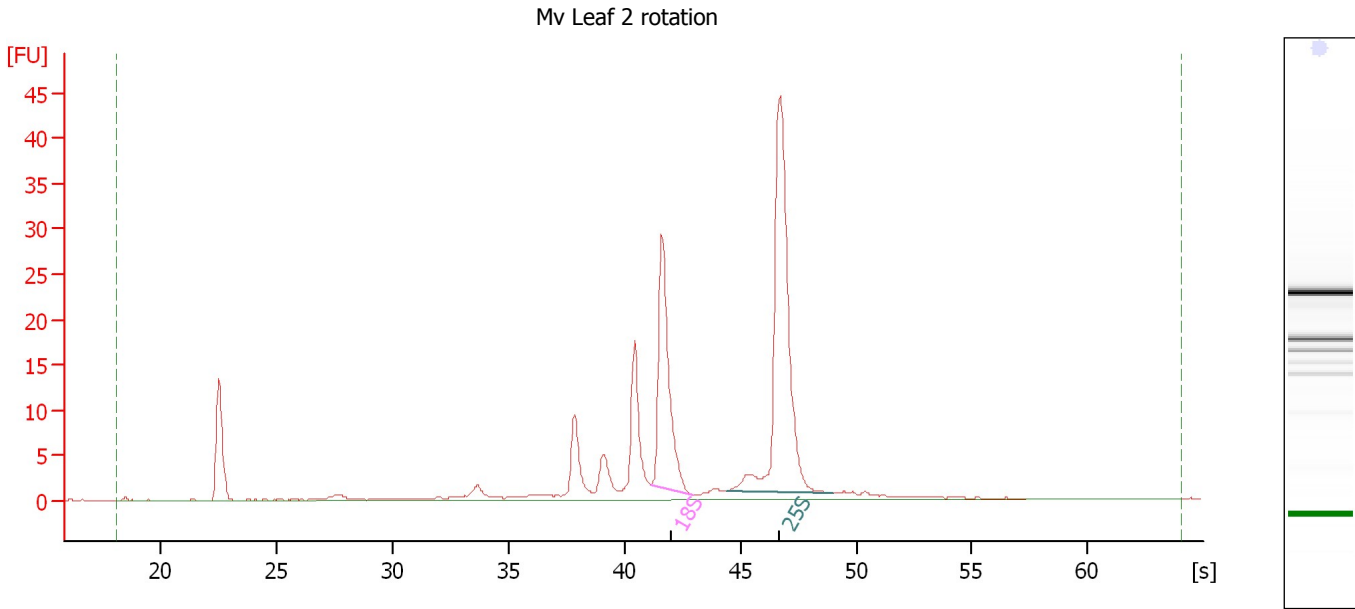
Fragment table for sample 4 : Mv Flower 3 kit

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.21	42.91	79.8	27.9
25S	45.84	48.35	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

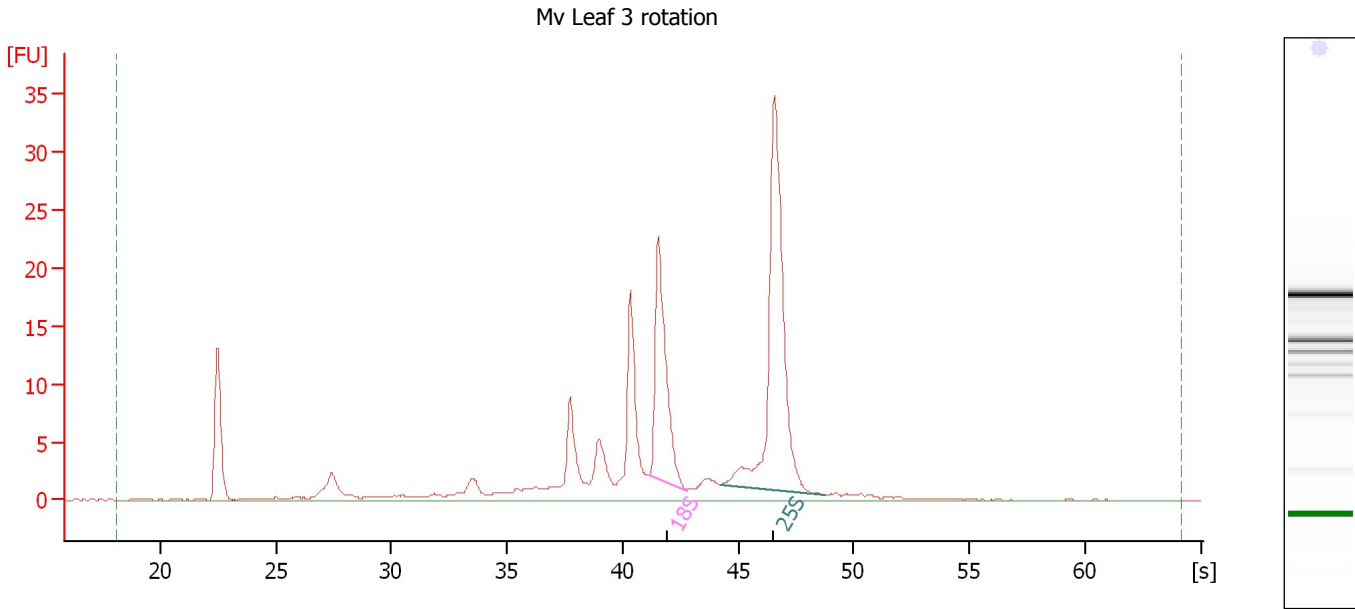
Fragment table for sample 5 : Mv Leaf 2 rotation

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.15	42.91	32.9	19.3
25S	44.40	49.04	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

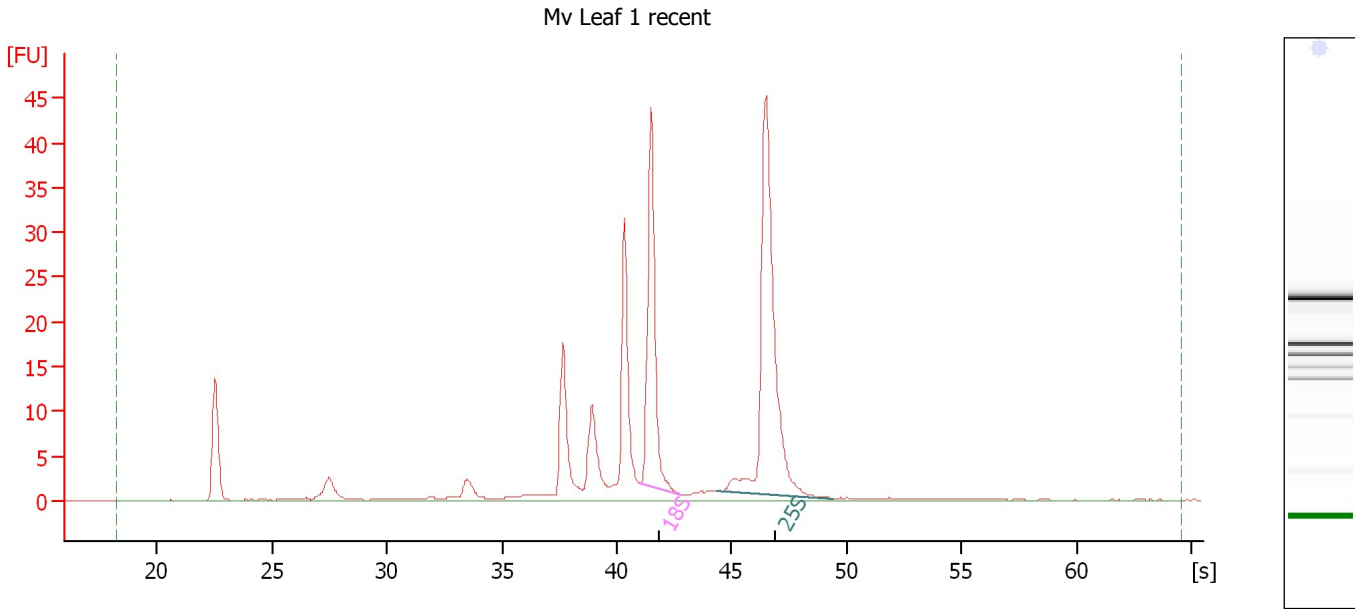
Fragment table for sample 6 : Mv Leaf 3 rotation

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.10	42.77	26.4	15.4
25S	44.26	48.72	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

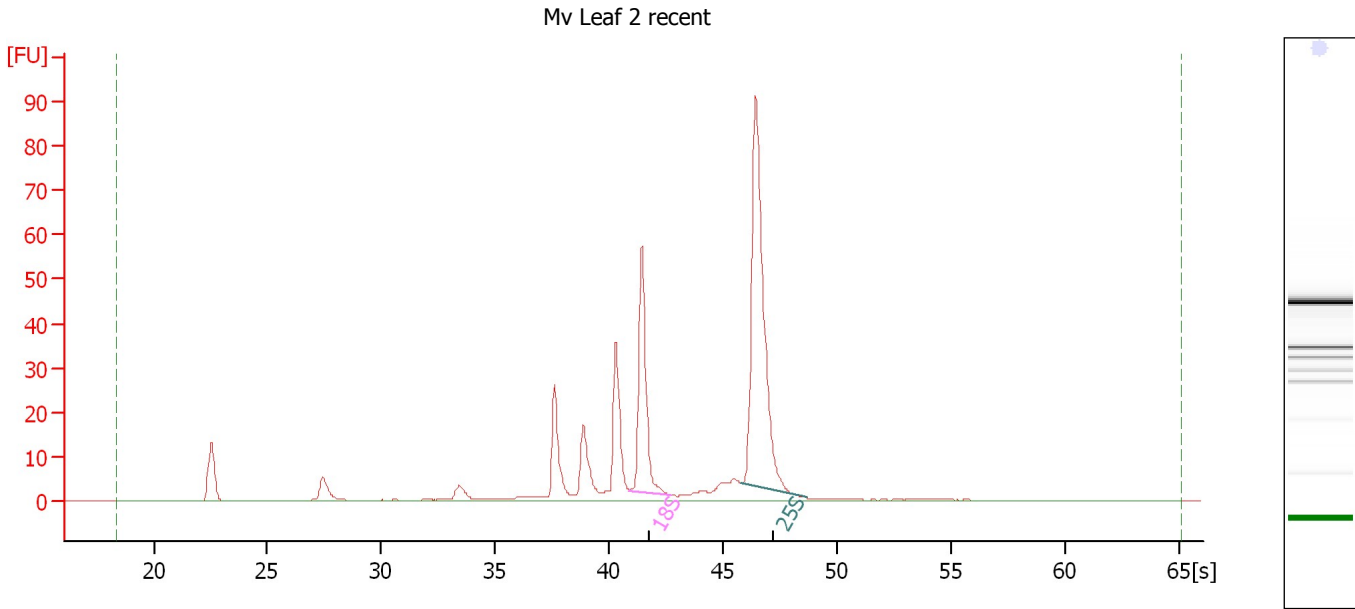
Fragment table for sample 7 : Mv Leaf 1 recent

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.98	42.80	37.0	18.7
25S	44.39	49.40	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

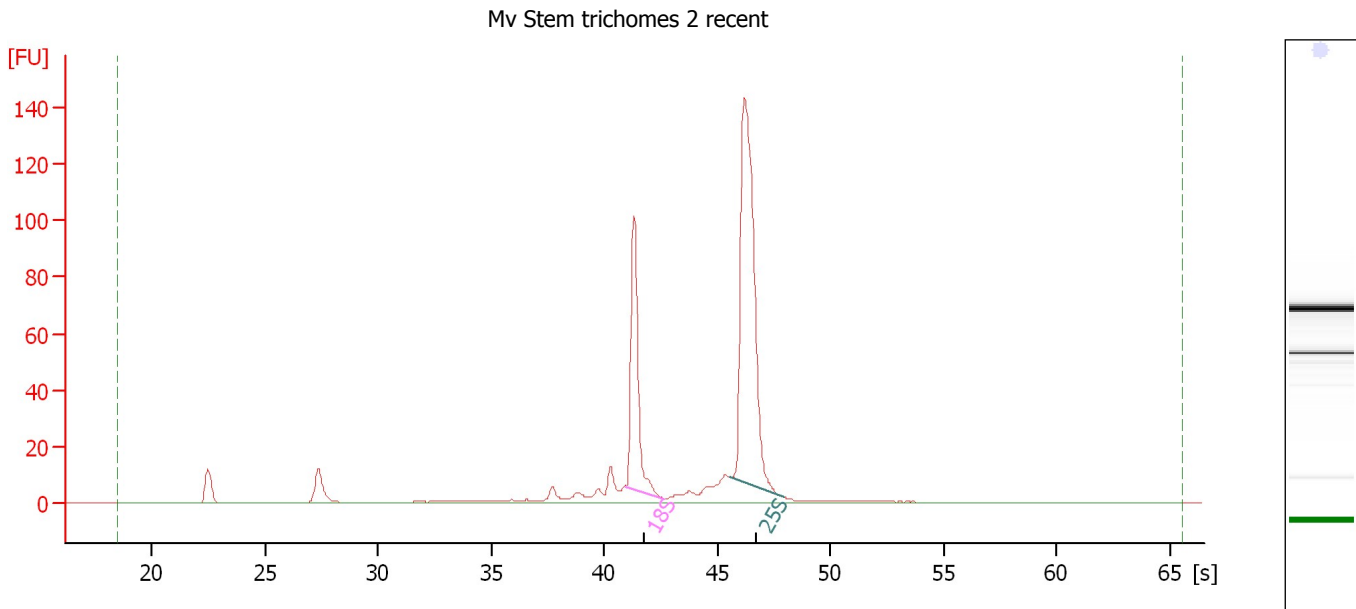
Fragment table for sample 8 : Mv Leaf 2 recent

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.90	42.69	49.2	15.9
25S	45.75	48.68	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

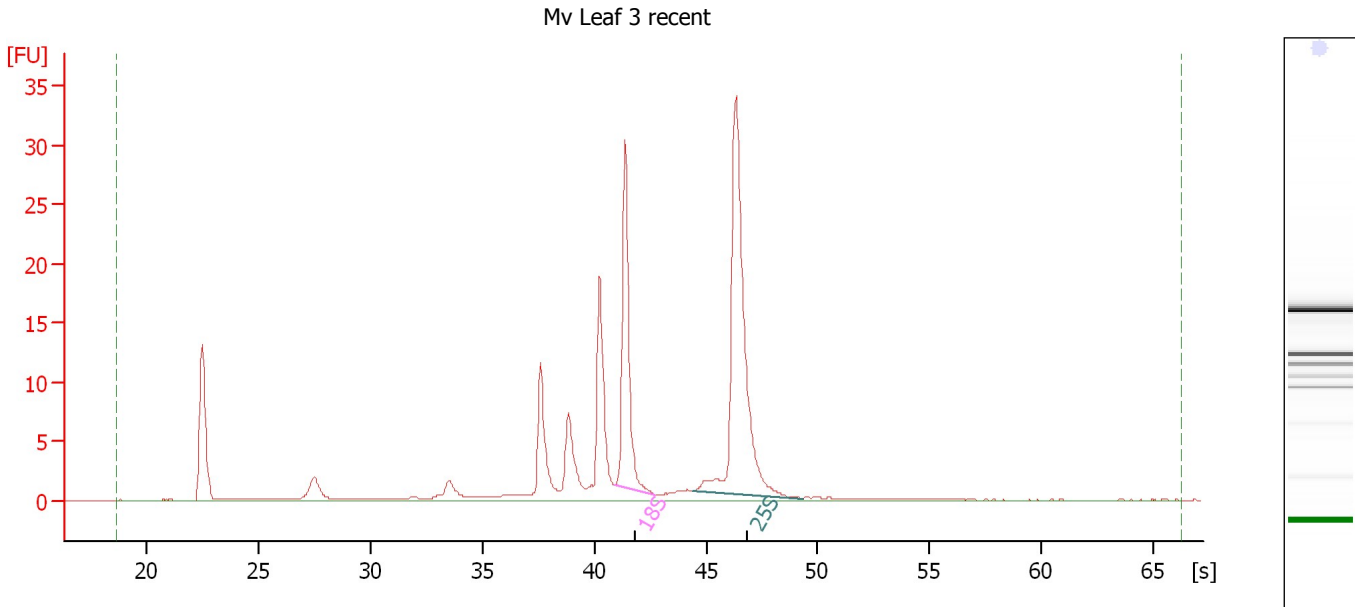
Fragment table for sample 9 : Mv Stem trichomes 2 recent

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.97	42.63	80.0	17.9
25S	45.52	47.90	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

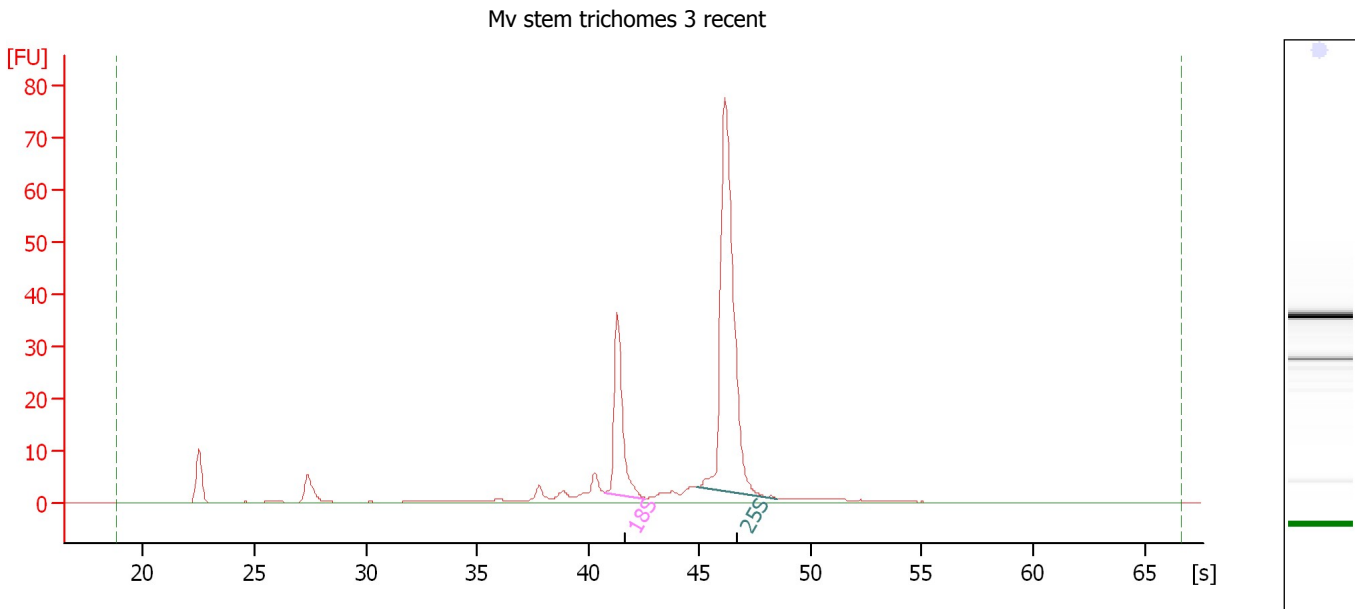
Fragment table for sample 10 : Mv Leaf 3 recent

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.92	42.75	24.7	18.2
25S	44.38	49.32	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

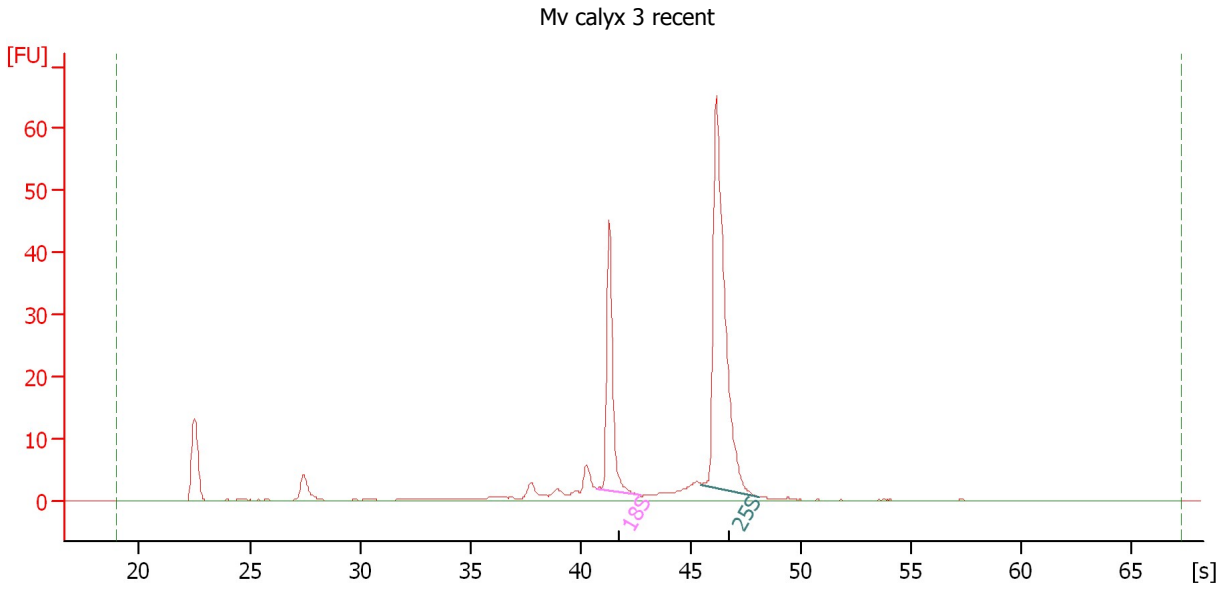
Fragment table for sample 11 : Mv stem trichomes 3 recent

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.75	42.59	34.3	15.7
25S	44.90	48.52	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

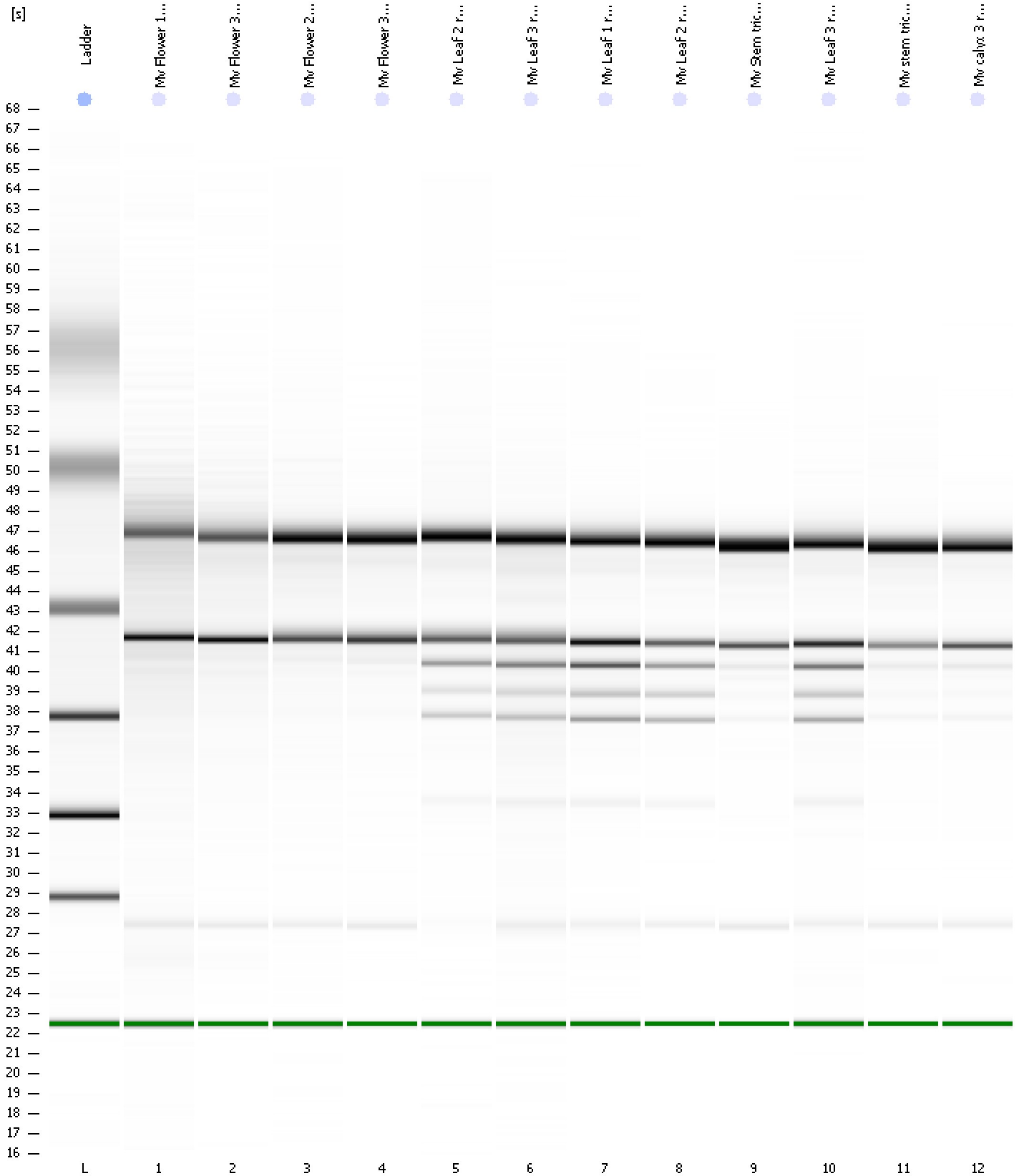
Fragment table for sample 12 : Mv calyx 3 recent

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.76	42.71	34.9	19.5
25S	45.49	48.07	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

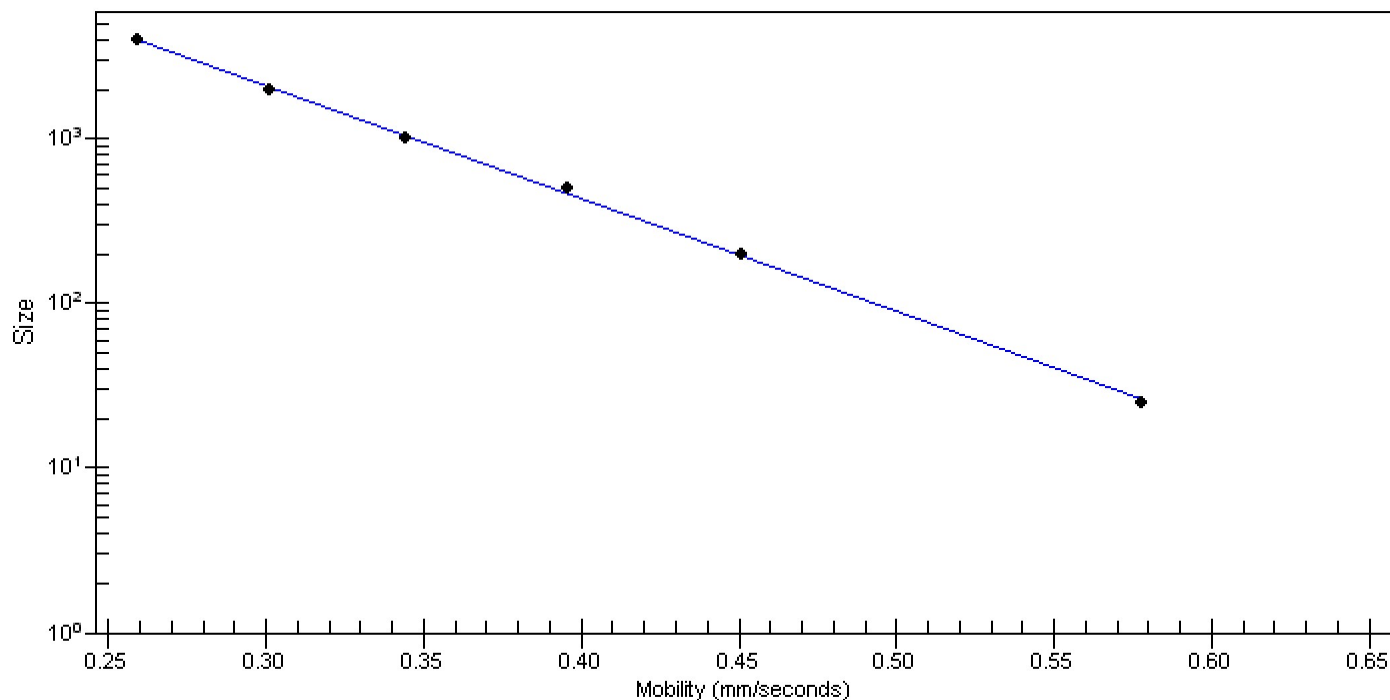


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-03\2015-11-03_005.xad

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