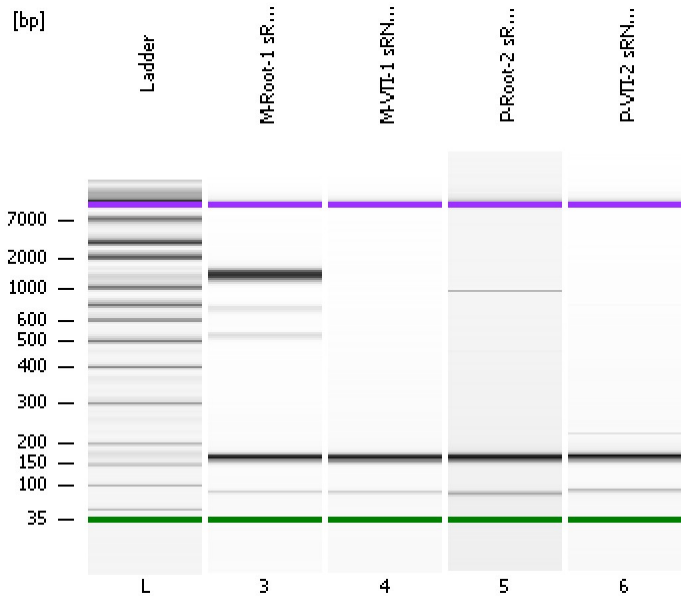


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

**Electrophoresis File Run Summary**



Instrument Information:

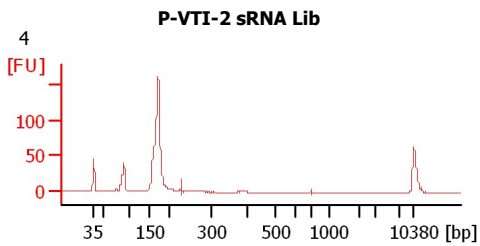
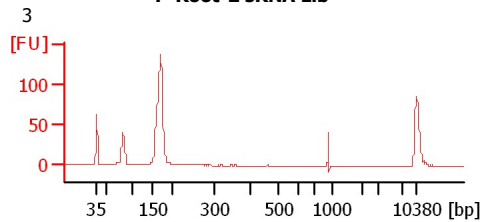
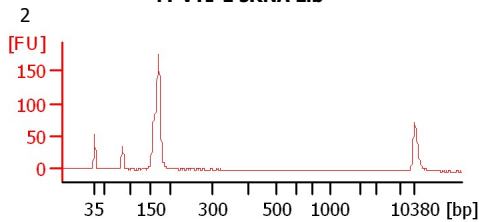
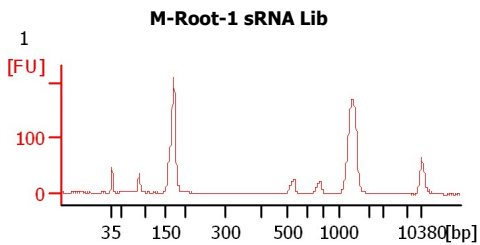
Instrument Name: DE13701086      Firmware: C.01.069  
 Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
 Assay Class: High Sensitivity DNA Assay  
 Version: 1.03  
 Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
M-Root-1 sRNA Lib	1	<input type="checkbox"/>				
M-VTI-1 sRNA Lib	2	<input type="checkbox"/>				
P-Root-2 sRNA Lib	3	<input type="checkbox"/>				
P-VTI-2 sRNA Lib	4	<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
 Minimum Visible Range [s] : 32  
 Maximum Visible Range [s] : 138  
 Start Analysis Time Range [s] : 33  
 End Analysis Time Range [s] : 137.5  
 Ladder Concentration [pg/μl] : 1950  
 Uses Standard Area for Ladder Fragments  
 Lower Marker Concentration [pg/μl] : 125  
 Upper Marker Concentration [pg/μl] : 75  
 Used Upper Marker for Quantitation  
 Standard Curve Fit is Point to Point  
 Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 33.05  
 Integration End Time [s] : 137  
 Slope Threshold : 0.8  
 Height Threshold [FU] : 5  
 Area Threshold : 0.1  
 Width Threshold [s] : 0.6  
 Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
 Polynomial Order : 4

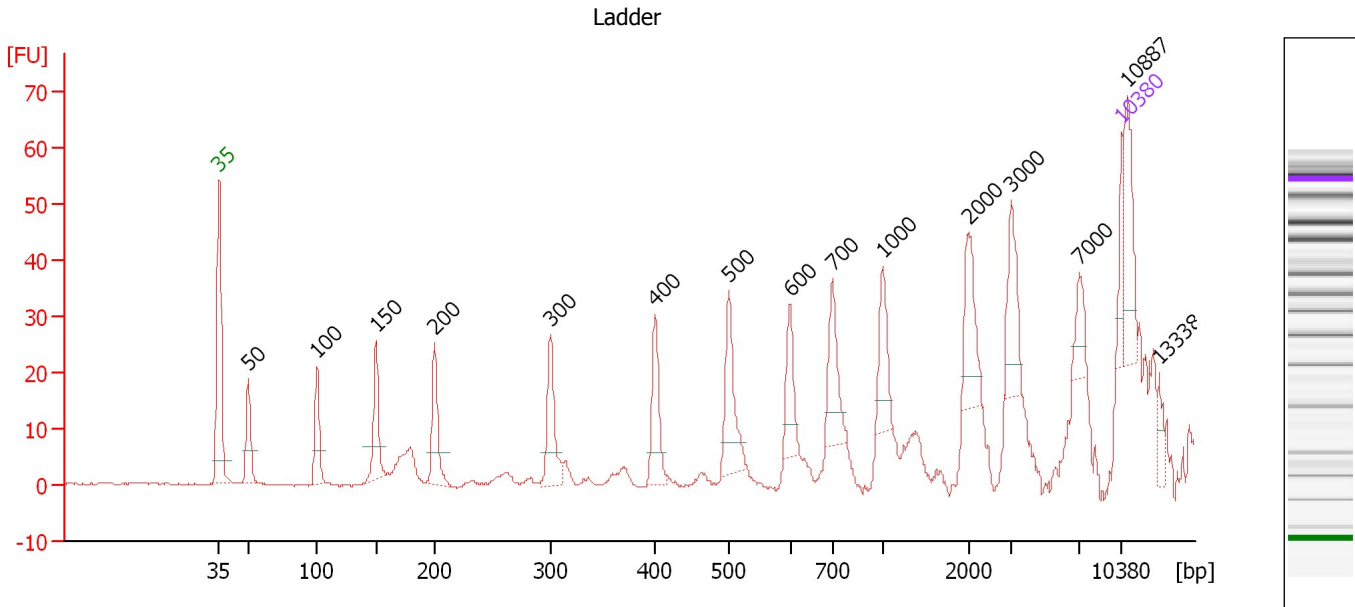
**Ladder**

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

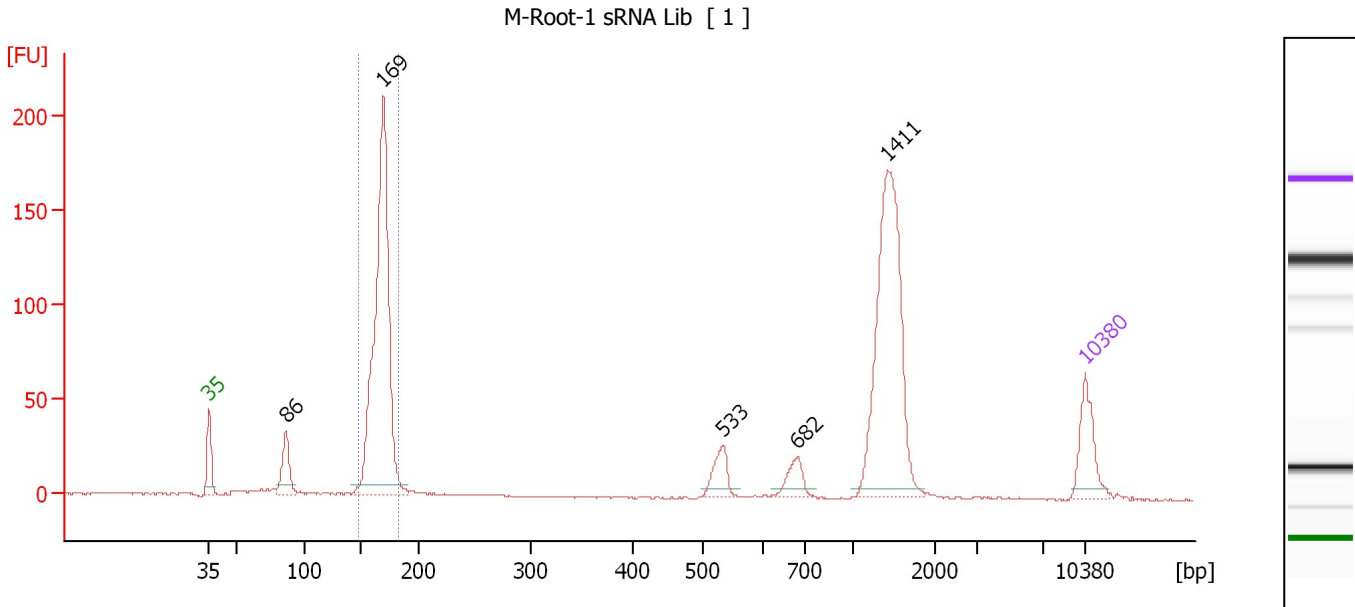
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker
16	10,887	0.00	0.0	
17	13,338	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : M-Root-1 sRNA Lib**

Number of peaks found: 5                      Corr. Area 1: 496.6  
 Noise: 0.4

**Peak table for sample 3 : M-Root-1 sRNA Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	86	101.58	1,785.6	
3	169	937.78	8,404.1	
4	533	59.79	169.8	
5	682	48.44	107.6	
6	1,411	470.39	505.2	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 3 : M-Root-1 sRNA Lib**

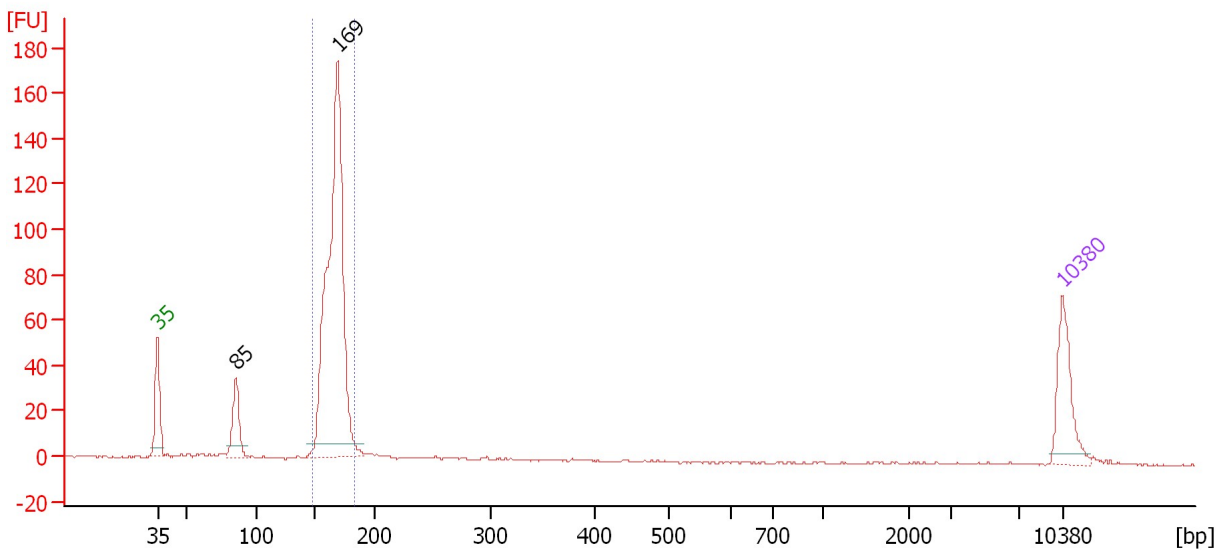
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
147	183	167	8,482.2	934.78	496.6	44	3.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

**Electropherogram Summary Continued ...**

M-VTI-1 sRNA Lib [ 2 ]



**Overall Results for sample 4 : M-VTI-1 sRNA Lib**

Number of peaks found: 2                      Corr. Area 1: 435.3  
 Noise: 0.4

**Peak table for sample 4 : M-VTI-1 sRNA Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	85	87.16	1,545.6	
3	169	742.12	6,647.5	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : M-VTI-1 sRNA Lib**

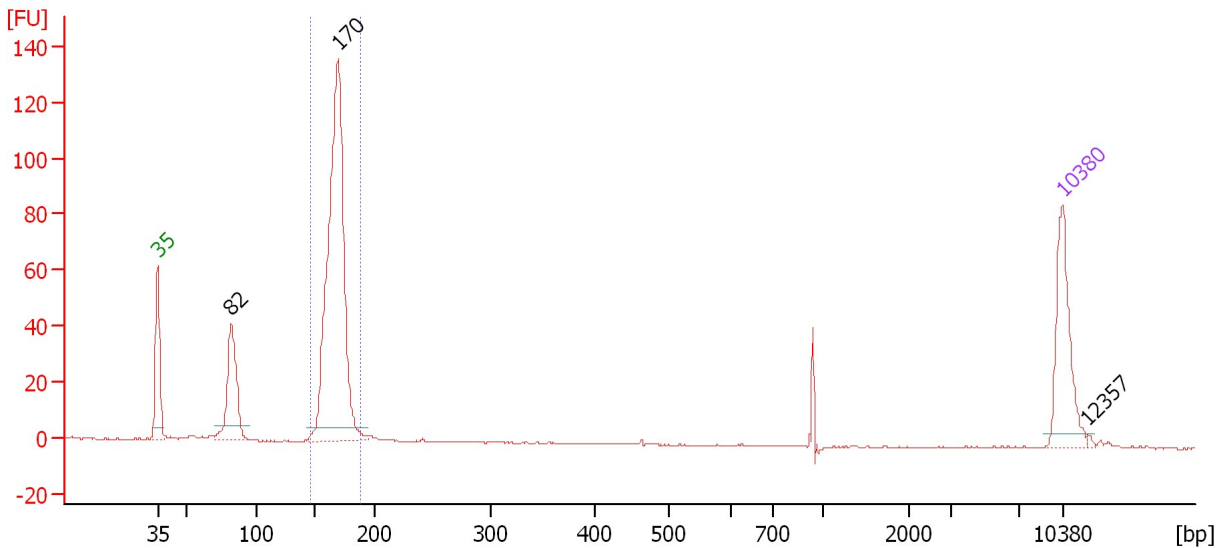
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
147	183	166	6,879.9	754.30	435.3	80	4.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

**Electropherogram Summary Continued ...**

P-Root-2 sRNA Lib [ 3 ]



**Overall Results for sample 5 : P-Root-2 sRNA Lib**

Number of peaks found: 3                      Corr. Area 1: 355.2  
 Noise: 0.2

**Peak table for sample 5 : P-Root-2 sRNA Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	126.84	2,347.9	
3	170	532.16	4,753.4	
4	10,380	75.00	10.9	Upper Marker
5	12,357	0.00	0.0	

**Region table for sample 5 : P-Root-2 sRNA Lib**

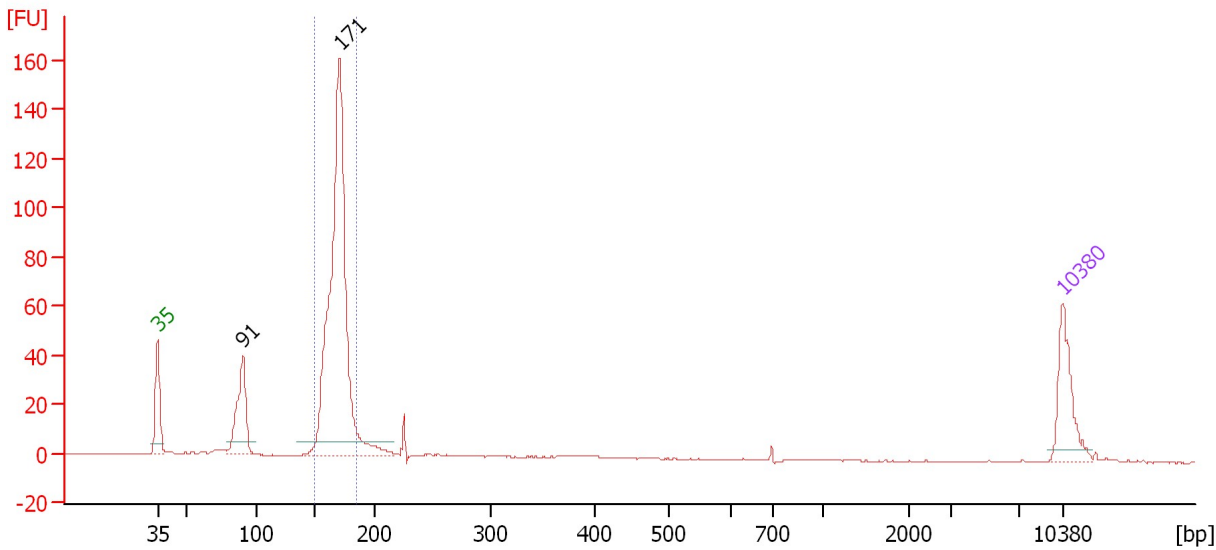
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
147	188	167	4,782.9	527.52	355.2	78	4.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

**Electropherogram Summary Continued ...**

P-VTI-2 sRNA Lib [ 4 ]



**Overall Results for sample 6 : P-VTI-2 sRNA Lib**

Number of peaks found: 2                      Corr. Area 1: 383.7  
 Noise: 0.2

**Peak table for sample 6 : P-VTI-2 sRNA Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	91	149.57	2,502.4	
3	171	820.18	7,276.0	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 6 : P-VTI-2 sRNA Lib**

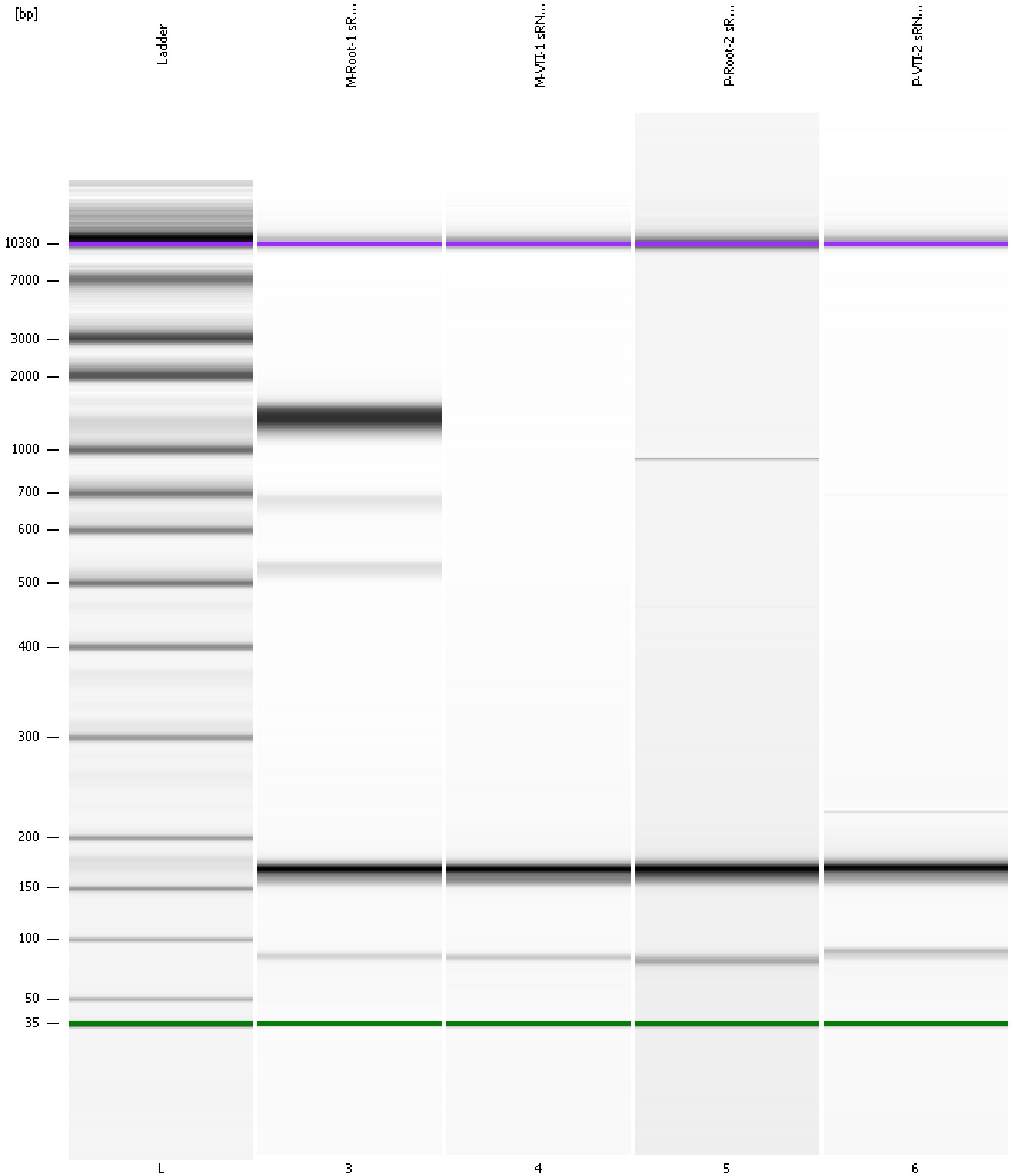
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
150	185	168	7,053.5	783.90	383.7	75	4.0	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
Modified: 2/4/2013 11:21:23 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Settings\Bioanalyzer\2013-02-04\2013-02-04\_001\_P-M\_Lib.xad

Created: 2/4/2013 10:13:14 AM  
 Modified: 2/4/2013 11:21:23 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		2/4/2013 10:54:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad)		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1