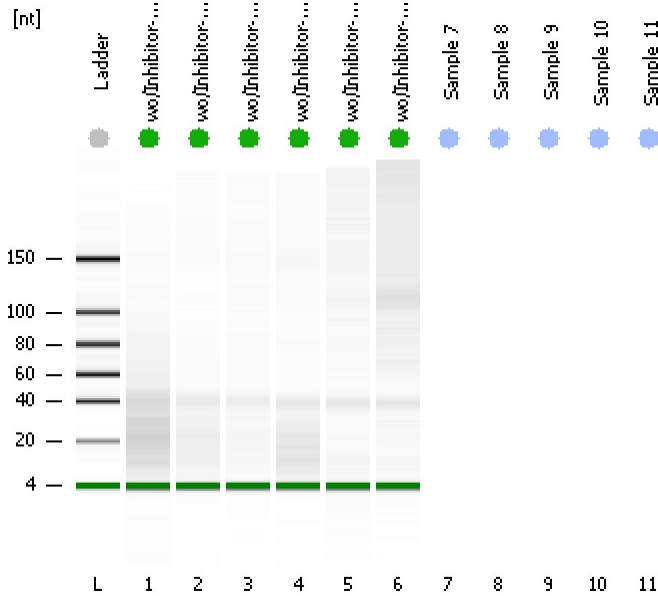


Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
Modified: 4/20/2012 1:07:04 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\Small RNA Series II.xsy

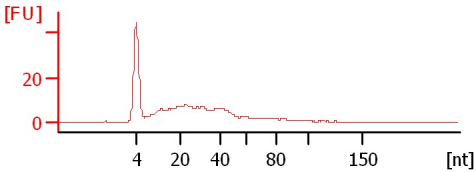
Assay Class: Small RNA
Version: 1.2
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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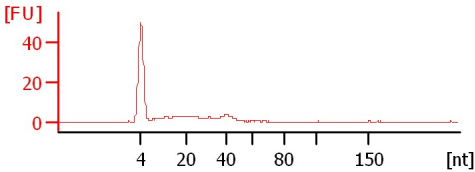
Chip Information:

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

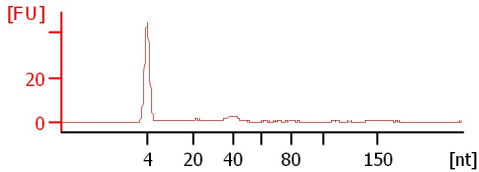
wo/Inhibitor-3 1:40
83 % miRNA; Concentration: 960.20 pg/µl



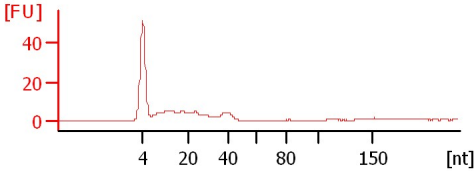
wo/Inhibitor-3 1:80
78 % miRNA; Concentration: 392.20 pg/µl



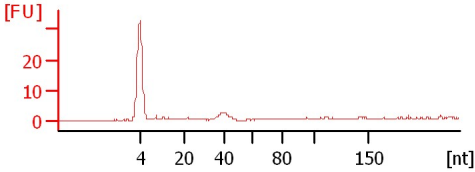
wo/Inhibitor-3 1:160
66 % miRNA; Concentration: 196.60 pg/µl



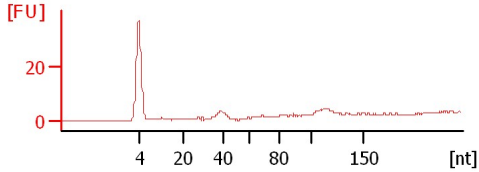
wo/Inhibitor-4 1:40
79 % miRNA; Concentration: 570.10 pg/µl



wo/Inhibitor-4 1:80
47 % miRNA; Concentration: 174.90 pg/µl















wo/Inhibitor-4 1:160
32 % miRNA; Concentration: 209.80 pg/µl



Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
Modified: 4/20/2012 1:07:04 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
wo/Inhibitor-3 1:40		✓	83 % miRNA; Concentration: 960.20 pg/μl	
wo/Inhibitor-3 1:80		✓	78 % miRNA; Concentration: 392.20 pg/μl	
wo/Inhibitor-3 1:160		✓	66 % miRNA; Concentration: 196.60 pg/μl	
wo/Inhibitor-4 1:40		✓	79 % miRNA; Concentration: 570.10 pg/μl	
wo/Inhibitor-4 1:80		✓	47 % miRNA; Concentration: 174.90 pg/μl	
wo/Inhibitor-4 1:160		✓	32 % miRNA; Concentration: 209.80 pg/μl	
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	Number of Peaks: 6	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
Modified: 4/20/2012 1:07:04 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12

Minimum Visible Range [s] : 30

Maximum Visible Range [s] : 90

Start Analysis Time Range [s] : 31

End Analysis Time Range [s] : 89

Ladder Concentration [pg/ μ l] : 2500

Lower Marker Concentration [pg/ μ l] : 500

Upper Marker Concentration [pg/ μ l] : 0

Used Lower Marker for Quantitation

Standard Curve Fit is Logarithmic

Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 30

Integration End Time [s] : 89

Slope Threshold : 0.6

Height Threshold [FU] : 3

Area Threshold : 0.2

Width Threshold [s] : 0.5

Baseline Plateau [s] : 60

Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

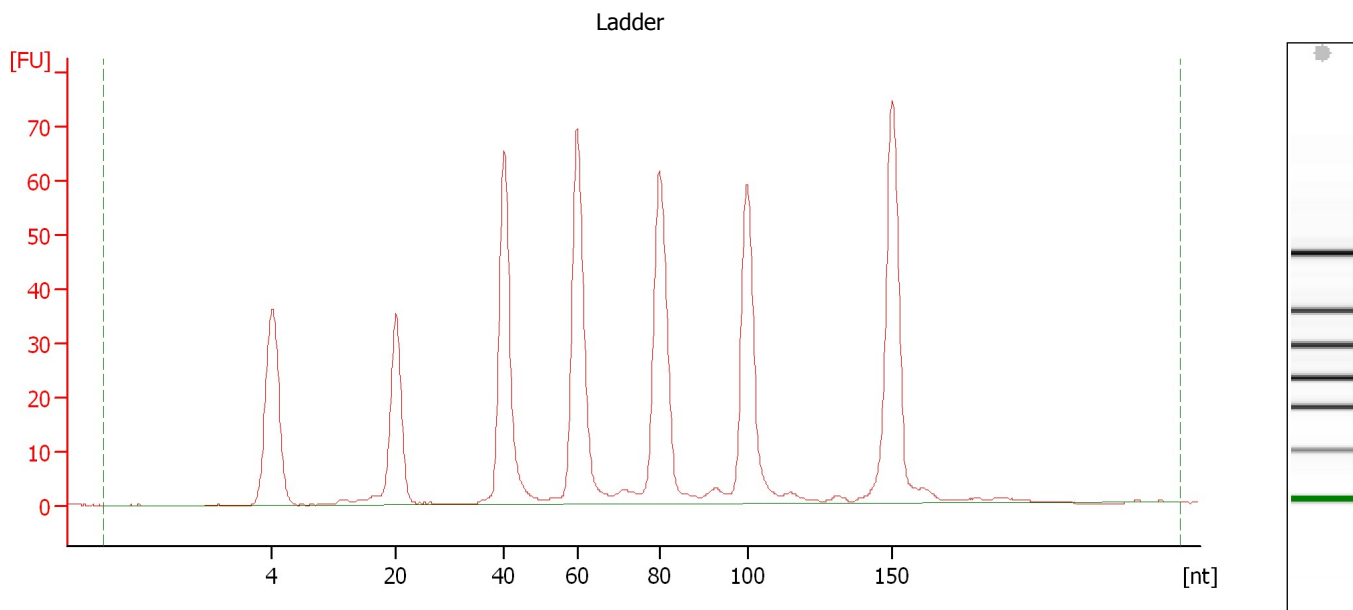
Ladder

Ladder Peak	Size
1	4
2	20
3	40
4	60
5	80
6	100
7	150

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
Modified: 4/20/2012 1:07:04 PM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

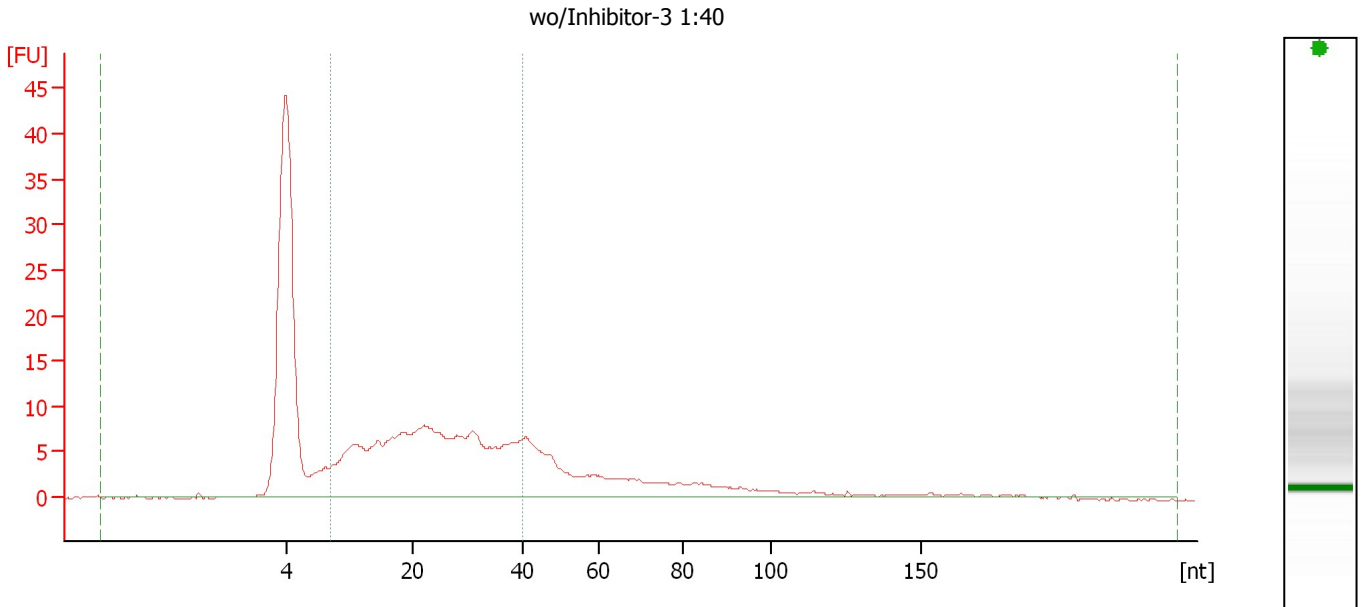
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
 Modified: 4/20/2012 1:07:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : wo/Inhibitor-3 1:40

Small RNA Concentration [pg/μl]:	1,163.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	960.2	Result Flagging Label:	83 % miRNA; Concentration: 960.20 pg/μl
miRNA / Small RNA Ratio [%]:	83		

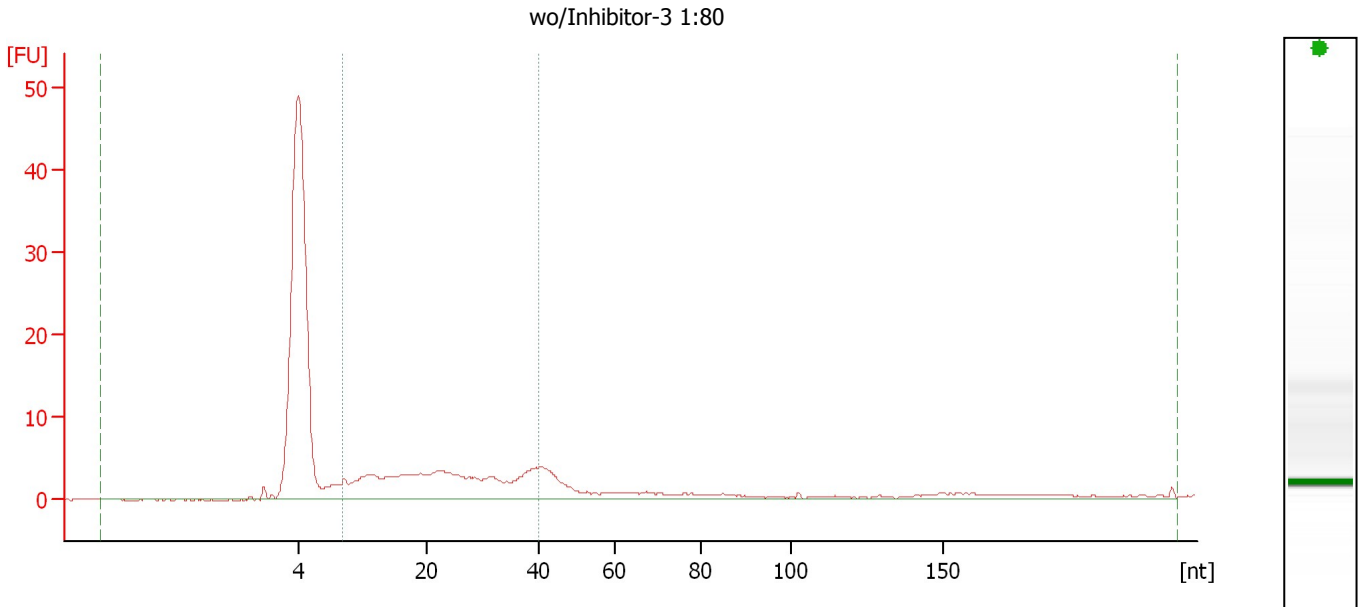
Region table for sample 1 : wo/Inhibitor-3 1:40

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	236	28	99.8	1,163.2	100	
miRNA	10	40	24	35.5	960.2	83	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
 Modified: 4/20/2012 1:07:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : wo/Inhibitor-3 1:80

Small RNA Concentration [pg/μl]:	502.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	392.2	Result Flagging Label:	78 % miRNA; Concentration: 392.20 pg/μl
miRNA / Small RNA Ratio [%]:	78		

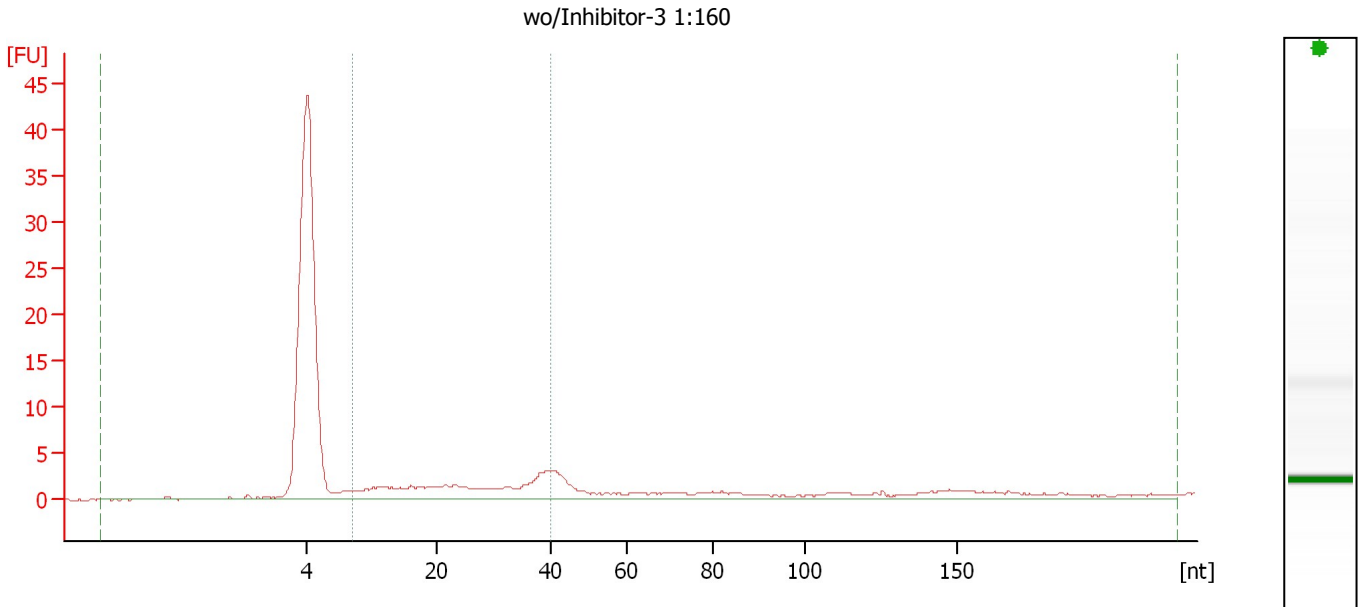
Region table for sample 2 : wo/Inhibitor-3 1:80

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	228	31	100.0	502.2	100	
miRNA	10	40	24	37.5	392.2	78	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
 Modified: 4/20/2012 1:07:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : wo/Inhibitor-3 1:160

Small RNA Concentration [pg/μl]:	298.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	196.6	Result Flagging Label:	66 % miRNA; Concentration: 196.60 pg/μl
miRNA / Small RNA Ratio [%]:	66		

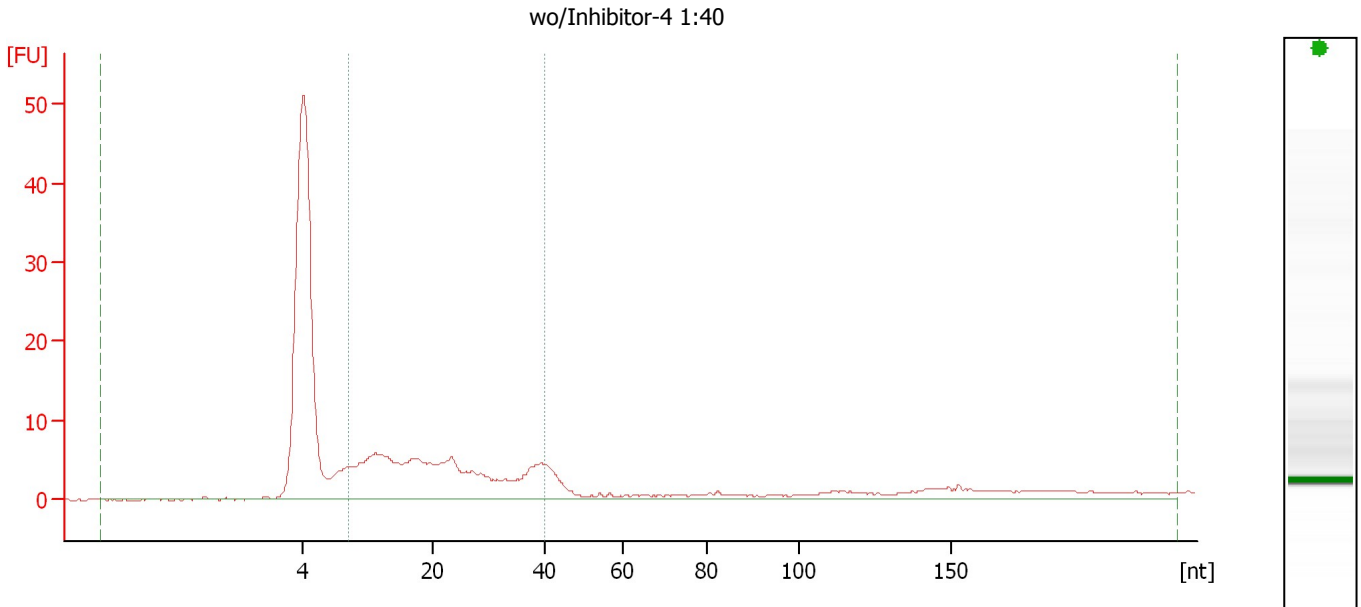
Region table for sample 3 : wo/Inhibitor-3 1:160

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	222	36	100.0	298.4	100	
miRNA	10	40	25	37.4	196.6	66	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
 Modified: 4/20/2012 1:07:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : wo/Inhibitor-4 1:40

Small RNA Concentration [pg/μl]:	724.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	570.1	Result Flagging Label:	79 % miRNA; Concentration: 570.10 pg/μl
miRNA / Small RNA Ratio [%]:	79		

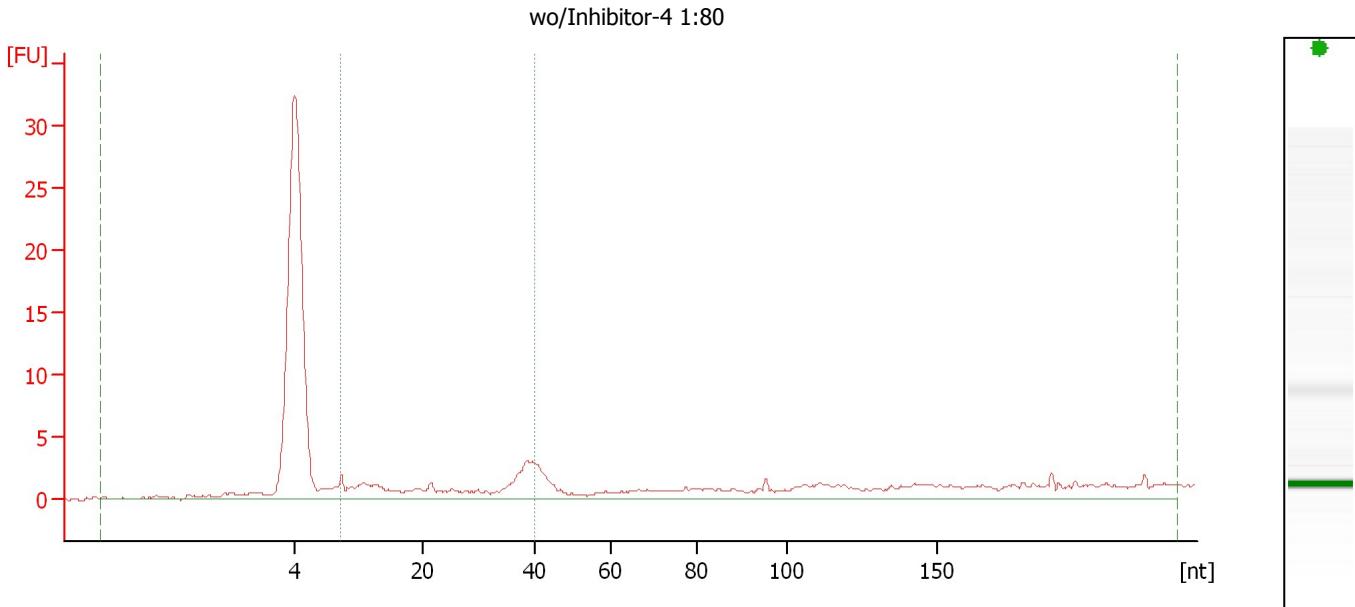
Region table for sample 4 : wo/Inhibitor-4 1:40

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	224	40	100.0	724.4	100	
miRNA	10	40	22	40.1	570.1	79	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
 Modified: 4/20/2012 1:07:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : wo/Inhibitor-4 1:80

Small RNA Concentration [pg/μl]:	371.7	Result Flagging Color:	
miRNA Concentration [pg/μl]:	174.9	Result Flagging Label:	47 % miRNA; Concentration: 174.90 pg/μl
miRNA / Small RNA Ratio [%]:	47		

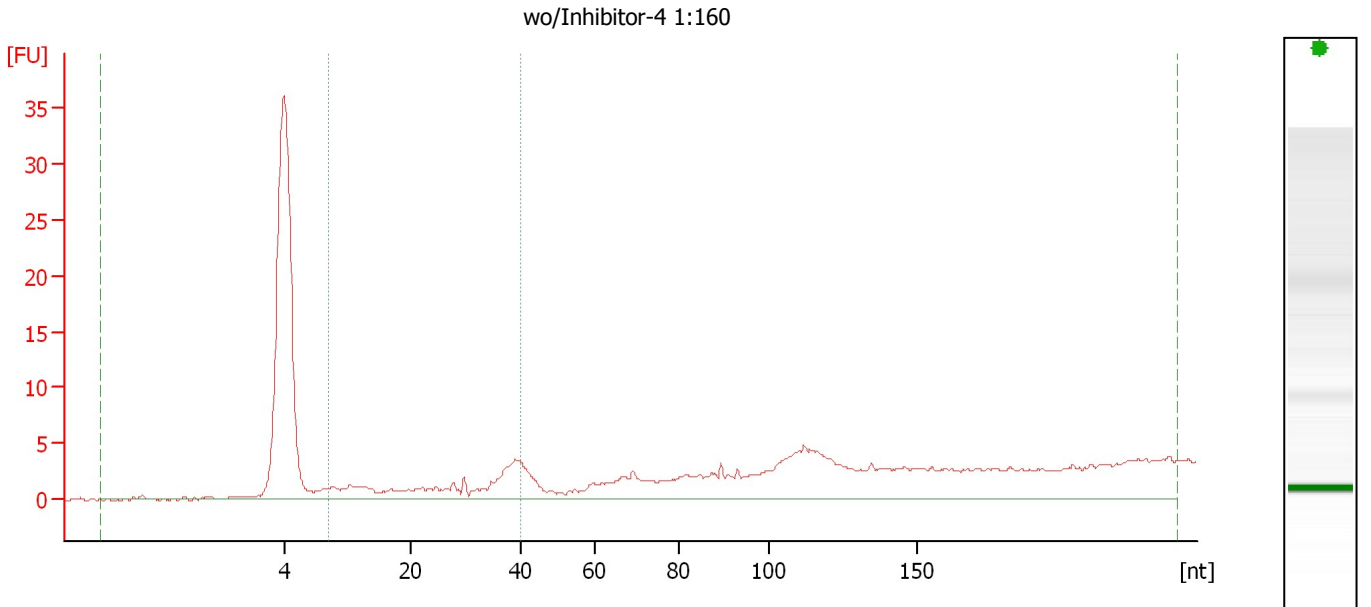
Region table for sample 5 : wo/Inhibitor-4 1:80

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	230	62	100.0	371.7	100	
miRNA	10	40	26	41.6	174.9	47	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
 Modified: 4/20/2012 1:07:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : wo/Inhibitor-4 1:160

Small RNA Concentration [pg/μl]:	658.3	Result Flagging Color:	
miRNA Concentration [pg/μl]:	209.8	Result Flagging Label:	32 % miRNA; Concentration: 209.80 pg/μl
miRNA / Small RNA Ratio [%]:	32		

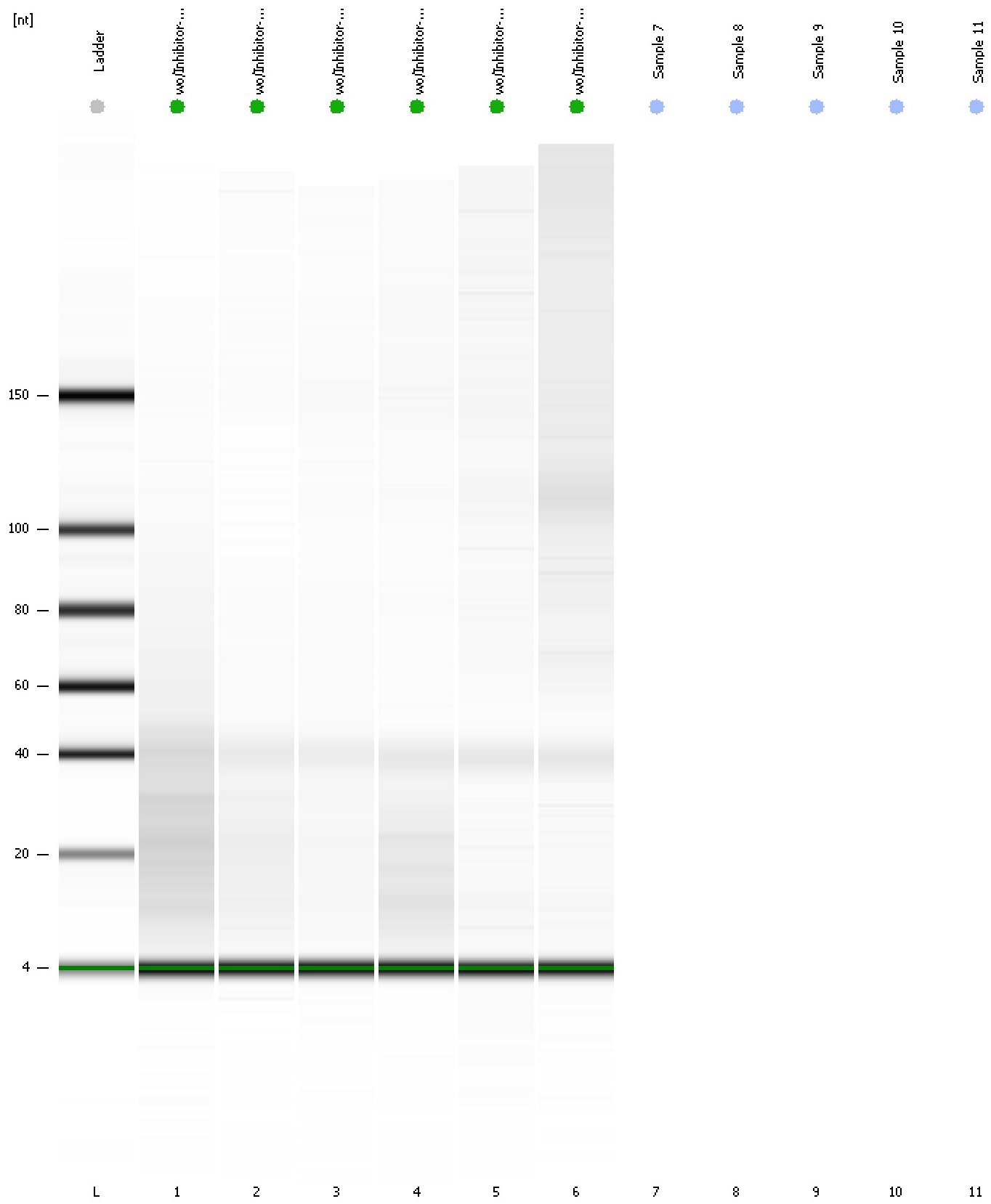
Region table for sample 6 : wo/Inhibitor-4 1:160

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	238	98	79.3	658.3	100	
miRNA	10	40	26	37.9	209.8	32	

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
Modified: 4/20/2012 1:07:04 PM

Gel Image



Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
Modified: 4/20/2012 1:07:04 PM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad

Created: 4/20/2012 12:44:40 PM
 Modified: 4/20/2012 1:07:04 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		4/20/2012 1:07:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-04-20\2012-04-20_003.xad)		Instrument	Run		4/20/2012 12:44:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/20/2012 12:44:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/20/2012 12:44:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/20/2012 12:44:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/20/2012 12:44:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/20/2012 12:44:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/20/2012 12:44:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1