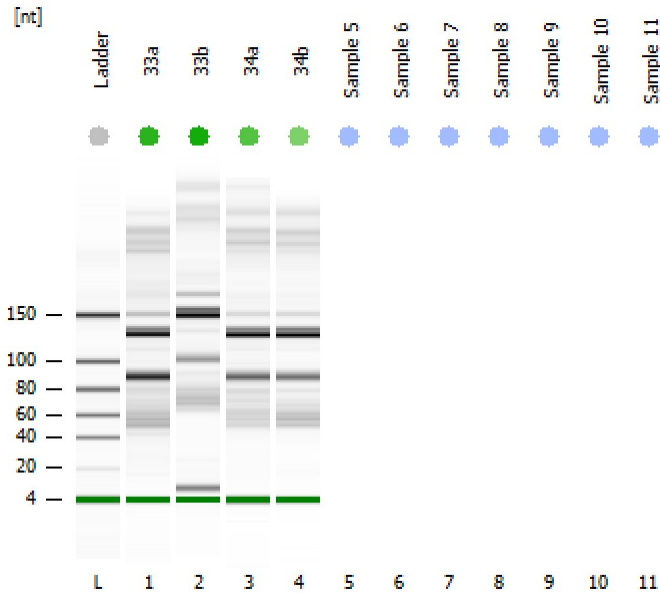


Assay Class: Small RNA  
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
Modified: 12/11/2019 1:23:13 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Small RNA Series II.xsy

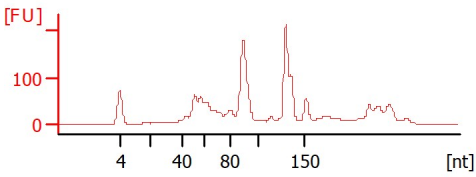
Assay Class: Small RNA  
Version: 1.2  
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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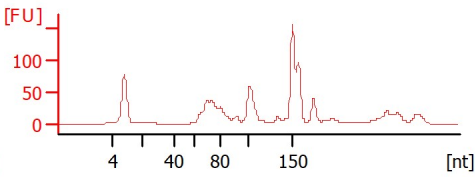
Chip Information:

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

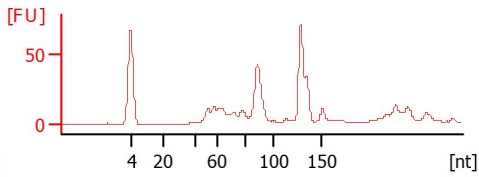
**33a**  
11 % miRNA; Concentration: 1084.50 pg/µl



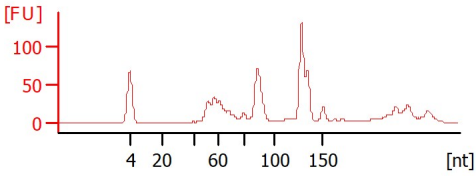
**33b**  
21 % miRNA; Concentration: 23894.10 p...



**34a**  
9 % miRNA; Concentration: 243.80 pg/µl















**34b**  
7 % miRNA; Concentration: 350.60 pg/µl



Assay Class: Small RNA  
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
 Modified: 12/11/2019 1:23:13 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
33a		✓	11 % miRNA; Concentration: 1084.50 pg/μl	
33b		✓	21 % miRNA; Concentration: 23894.10 pg/μl	
34a		✓	9 % miRNA; Concentration: 243.80 pg/μl	
34b		✓	7 % miRNA; Concentration: 350.60 pg/μl	
Sample 5				
Sample 6				
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: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
 Modified: 12/11/2019 1:23:13 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/μl] : 2500  
 Lower Marker Concentration [pg/μl] : 500  
 Upper Marker Concentration [pg/μl] : 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

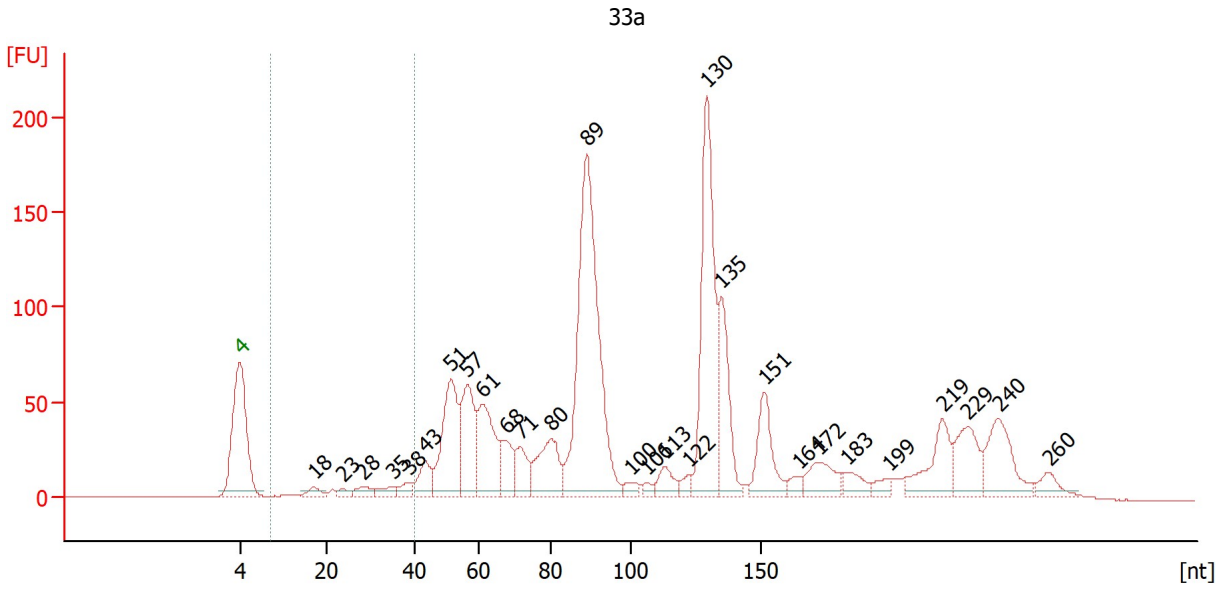
**Ladder**

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

Assay Class: Small RNA  
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
 Modified: 12/11/2019 1:23:13 PM

**Electropherogram Summary**



**Overall Results for sample 1 : 33a**

Small RNA Concentration [pg/μl]:	10,084.1	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	1,084.5	Result Flagging Label:	11 % miRNA; Concentration: 1084.50 pg/μl
miRNA / Small RNA Ratio [%]:	11		

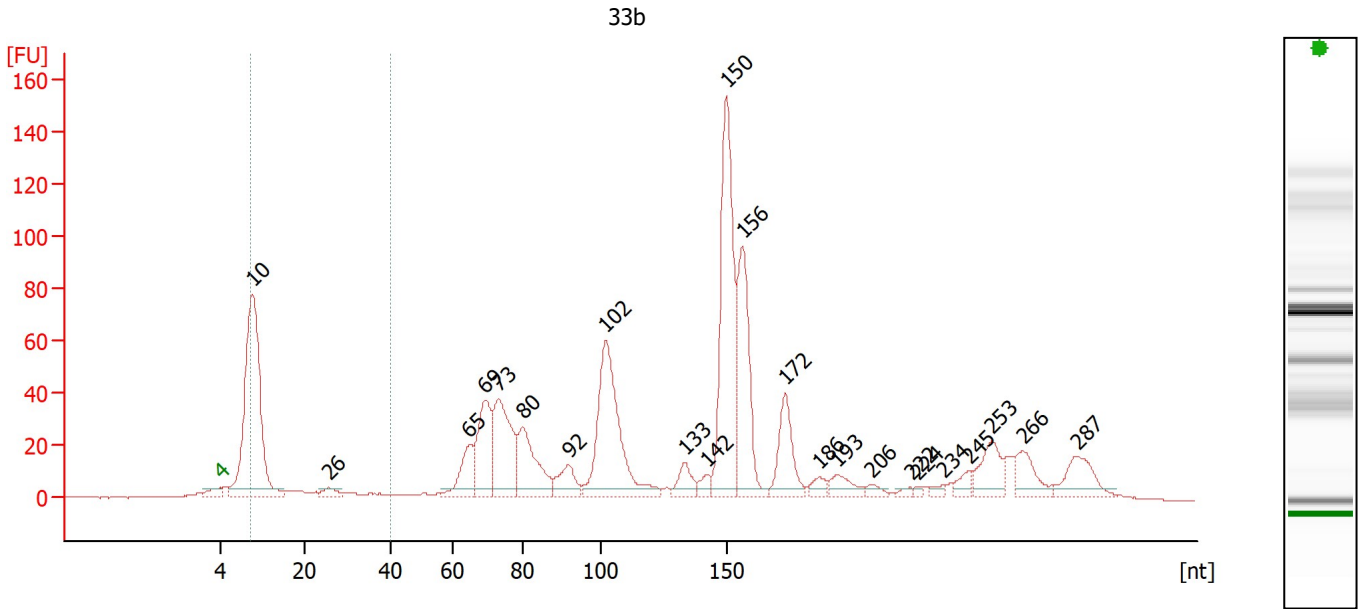
**Region table for sample 1 : 33a**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	308	118	55.5	10,084.1	100	<span style="background-color: maroon; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	28	28.5	1,084.5	11	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
 Modified: 12/11/2019 1:23:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 33b**

Small RNA Concentration [pg/μl]:	111,489.4	Result Flagging Color:	<span style="background-color: green; color: black;"> </span>
miRNA Concentration [pg/μl]:	23,894.1	Result Flagging Label:	21 % miRNA; Concentration: 23894.10 pg/μl
miRNA / Small RNA Ratio [%]:	21		

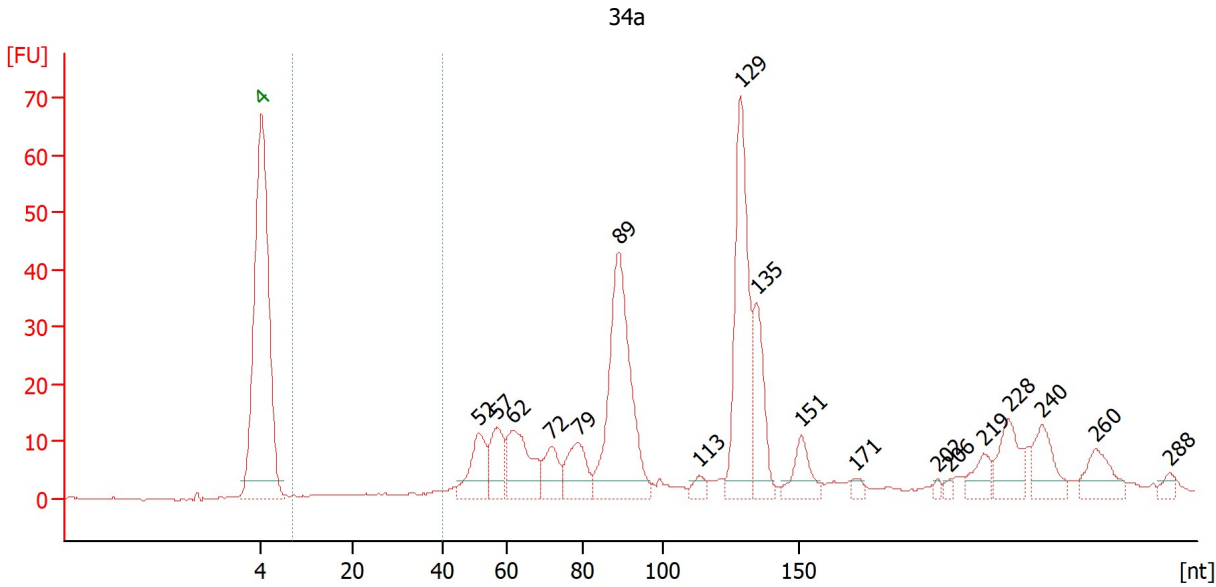
**Region table for sample 2 : 33b**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	326	131	58.2	111,489.4	100	<span style="background-color: maroon; color: black;"> </span>
miRNA	10	40	14	48.3	23,894.1	21	<span style="background-color: green; color: black;"> </span>

Assay Class: Small RNA  
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
 Modified: 12/11/2019 1:23:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 34a**

Small RNA Concentration [pg/μl]: 2,762.0  
 miRNA Concentration [pg/μl]: 243.8  
 miRNA / Small RNA Ratio [%]: 9

Result Flagging Color:    
 Result Flagging Label: 9 % miRNA;  
 Concentration: 243.80  
 pg/μl

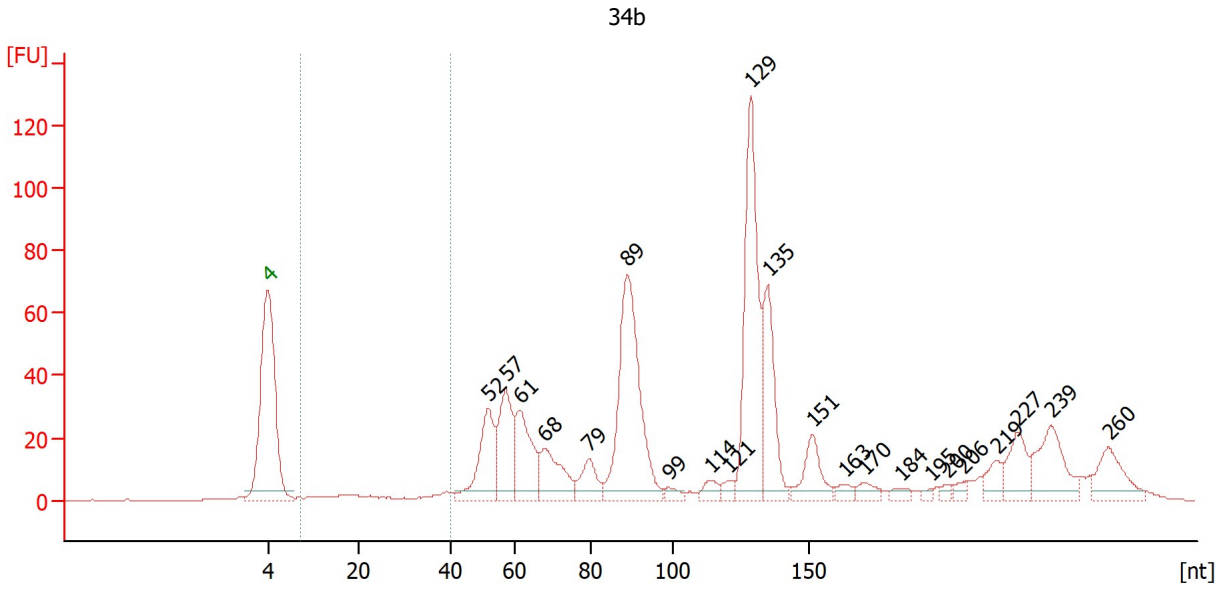
**Region table for sample 3 : 34a**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	290	115	68.3	2,762.0	100	<span style="background-color: purple; color: black;"> </span>
miRNA	10	40	26	34.9	243.8	9	<span style="background-color: green; color: black;"> </span>

Assay Class: Small RNA  
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
 Modified: 12/11/2019 1:23:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 34b**

Small RNA Concentration [pg/μl]: 4,986.3  
 miRNA Concentration [pg/μl]: 350.6  
 miRNA / Small RNA Ratio [%]: 7

Result Flagging Color:   
 Result Flagging Label: 7 % miRNA;  
 Concentration: 350.60  
 pg/μl

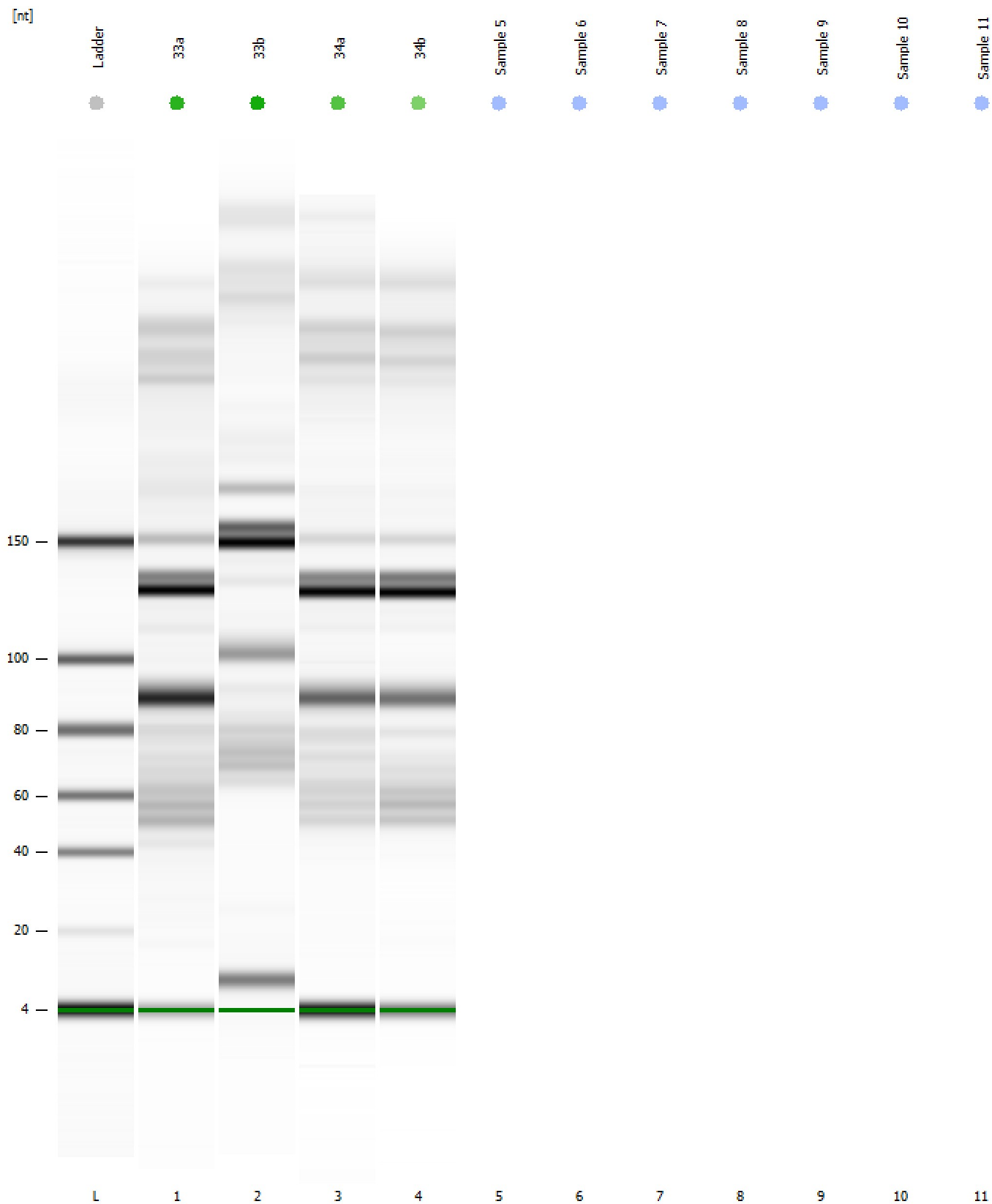
**Region table for sample 4 : 34b**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	285	120	60.9	4,986.3	100	<span style="background-color: #800080; display: inline-block; width: 10px; height: 10px;"></span>
miRNA	10	40	24	38.6	350.6	7	<span style="background-color: #008000; display: inline-block; width: 10px; height: 10px;"></span>

Assay Class: Small RNA  
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
Modified: 12/11/2019 1:23:13 PM

**Gel Image**



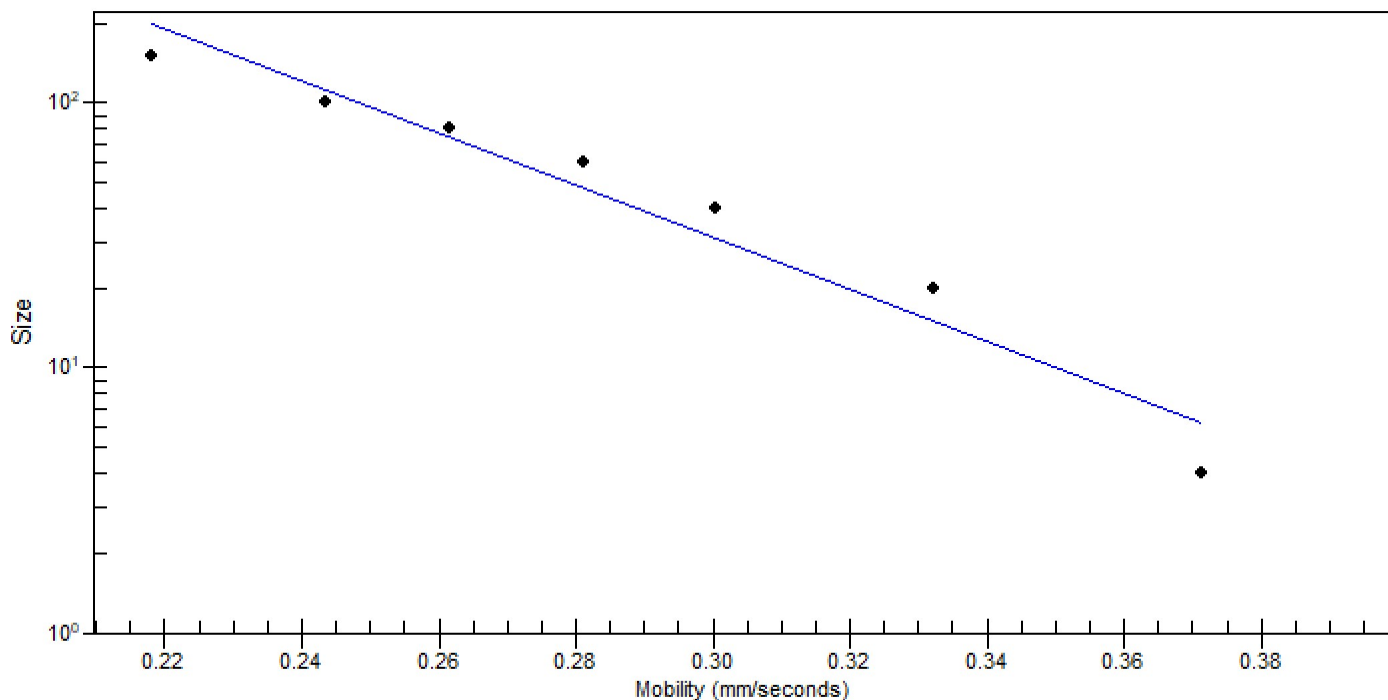


Assay Class: Small RNA  
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
Modified: 12/11/2019 1:23:13 PM

**Curves**

**Standard Curve**



Assay Class: Small RNA  
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
Modified: 12/11/2019 1:23:13 PM

**Invalid Samples**

- Sample 5 has not been run, no results available.
- Sample 6 has not been run, no results available.
- 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: Z:\XADs\2019-12-11\Bioanalyzer1\_Small RNA\_2019-12-11\_005.xad

Created: 12/11/2019 1:03:03 PM  
 Modified: 12/11/2019 1:23:13 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		12/11/2019 1:21:36 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-11\Bioanalyze r1_Small RNA_2019-12-11_005.xad)		Instrument	Run		12/11/2019 1:03:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/11/2019 1:03:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/11/2019 1:03:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/11/2019 1:03:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/11/2019 1:03:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/11/2019 1:03:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/11/2019 1:03:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB