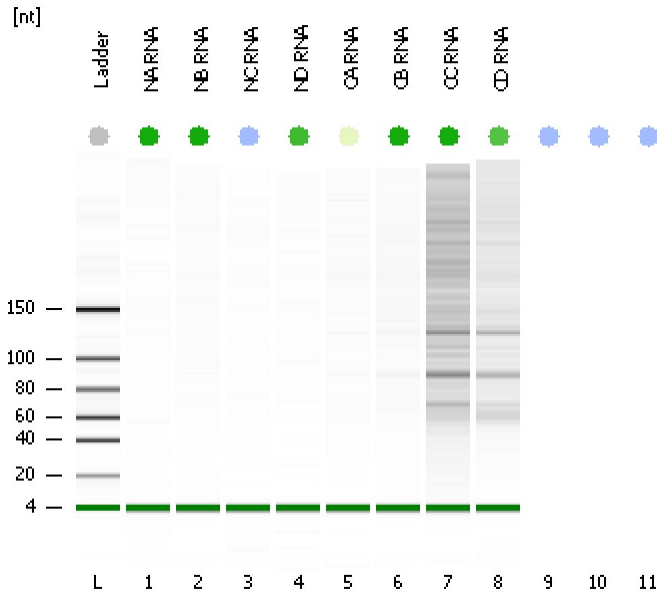


Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
 Modified: 5/9/2017 10:54:22 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\RNA\Small RNA Series II.xsy

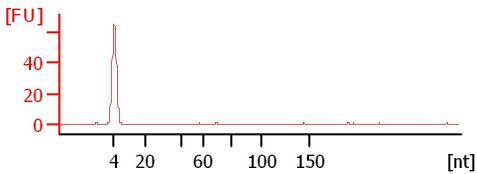
Assay Class: Small RNA  
 Version: 1.2  
 Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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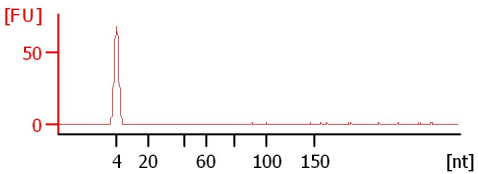
Chip Information:

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

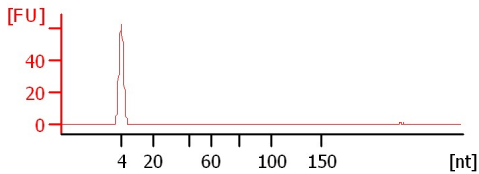
**NA RNA**  
 12 % miRNA; Concentration: 2.60 pg/µl



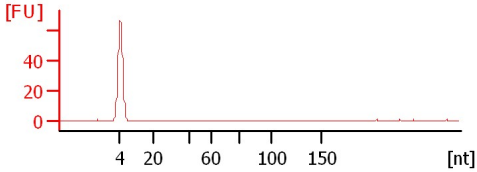
**NB RNA**  
 27 % miRNA; Concentration: 12.80 pg/µl



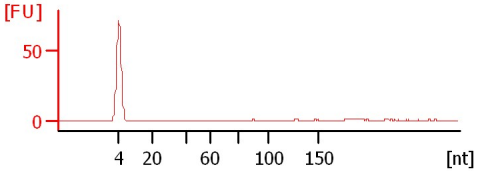
**NC RNA**  
 All Other Samples



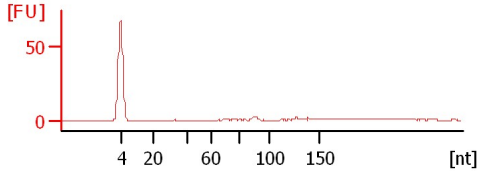
**ND RNA**  
 10 % miRNA; Concentration: 1.60 pg/µl



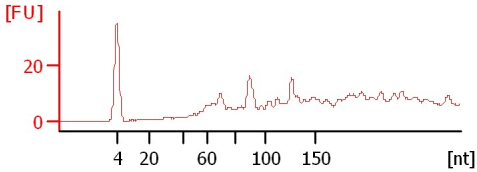
**CA RNA**  
 2 % miRNA; Concentration: 0.30 pg/µl



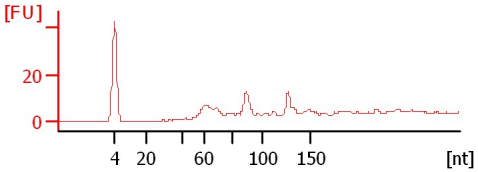
**CB RNA**  
 21 % miRNA; Concentration: 11.60 pg/µl



**CC RNA**  
 12 % miRNA; Concentration: 66.80 pg/µl






**CD RNA**  
 9 % miRNA; Concentration: 28.80 pg/µl



Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
 Modified: 5/9/2017 10:54:22 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
NA RNA		✓	12 % miRNA; Concentration: 2.60 pg/μl	
NB RNA		✓	27 % miRNA; Concentration: 12.80 pg/μl	
NC RNA		✓	All Other Samples	
ND RNA		✓	10 % miRNA; Concentration: 1.60 pg/μl	
CA RNA		✓	2 % miRNA; Concentration: 0.30 pg/μl	
CB RNA		✓	21 % miRNA; Concentration: 11.60 pg/μl	
CC RNA		✓	12 % miRNA; Concentration: 66.80 pg/μl	
CD RNA		✓	9 % miRNA; Concentration: 28.80 pg/μl	
				
				
Ladder		✓	Number of Peaks: 6	

Chip Lot #

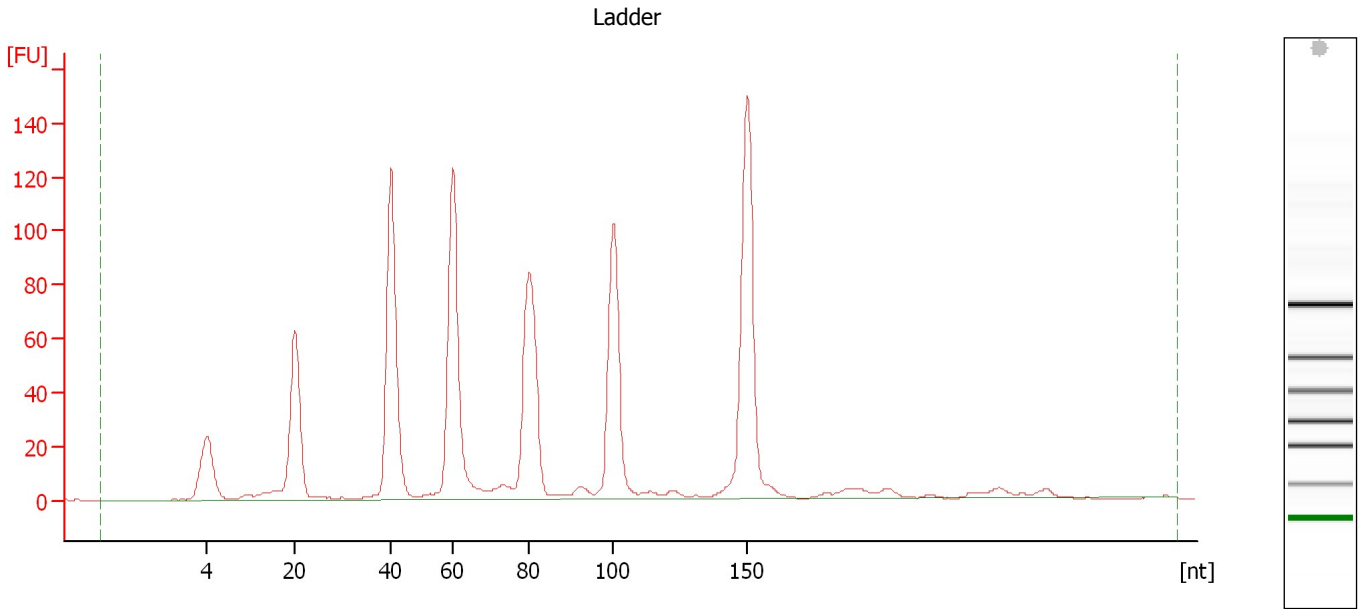
Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
Modified: 5/9/2017 10:54:22 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Result Flagging Color:

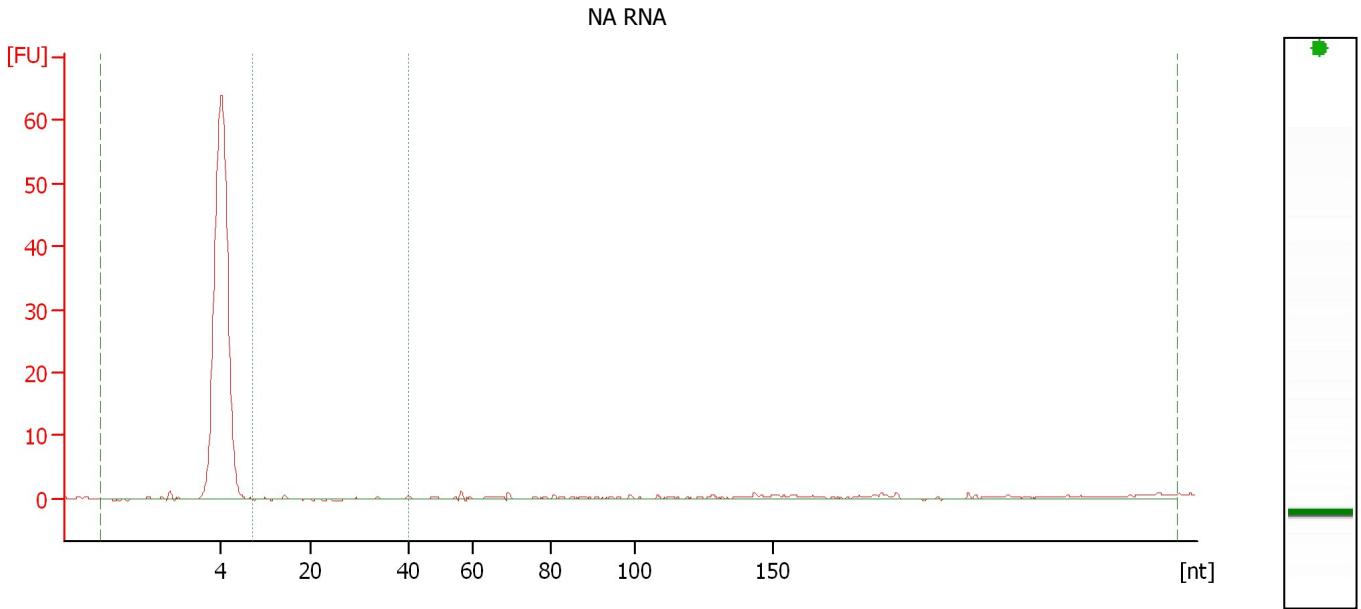
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : NA RNA**

Small RNA Concentration [pg/μl]:	21.7	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	2.6	Result Flagging Label:	12 % miRNA; Concentration: 2.60 pg/μl
miRNA / Small RNA Ratio [%]:	12		

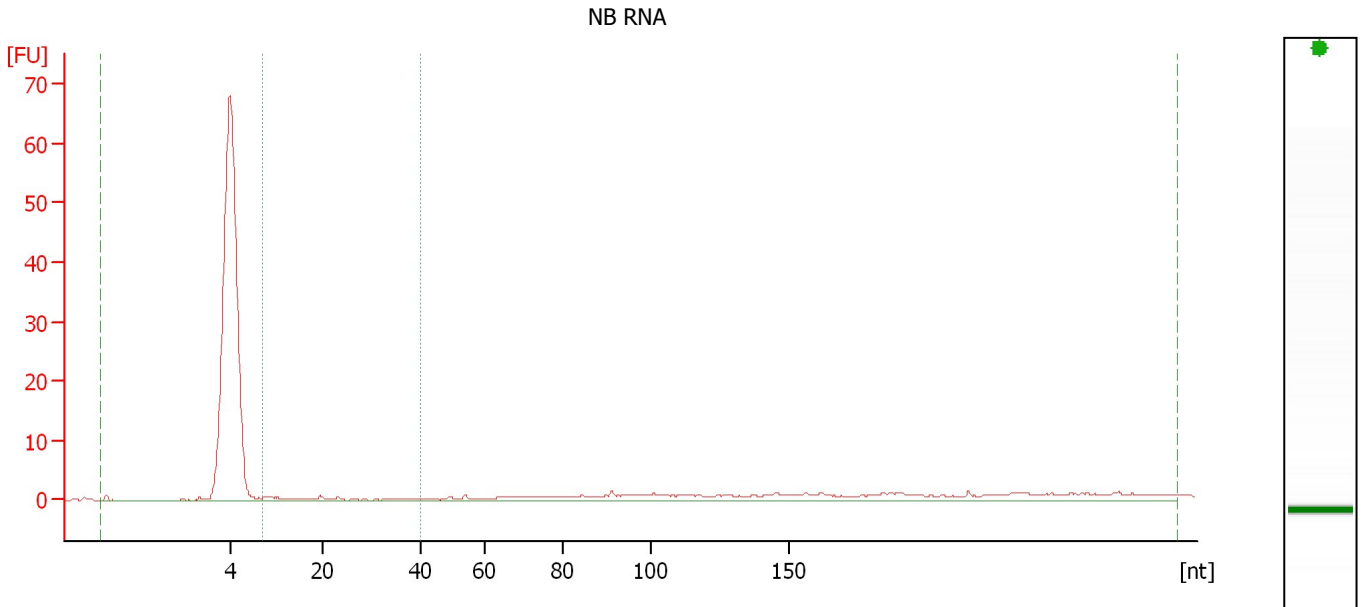
**Region table for sample 1 : NA RNA**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	298	39	100.0	21.7	100	<span style="background-color: #800040; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	26	39.7	2.6	12	<span style="background-color: #008080; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : NB RNA**

Small RNA Concentration [pg/μl]:	46.7	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	12.8	Result Flagging Label:	27 % miRNA; Concentration: 12.80 pg/μl
miRNA / Small RNA Ratio [%]:	27		

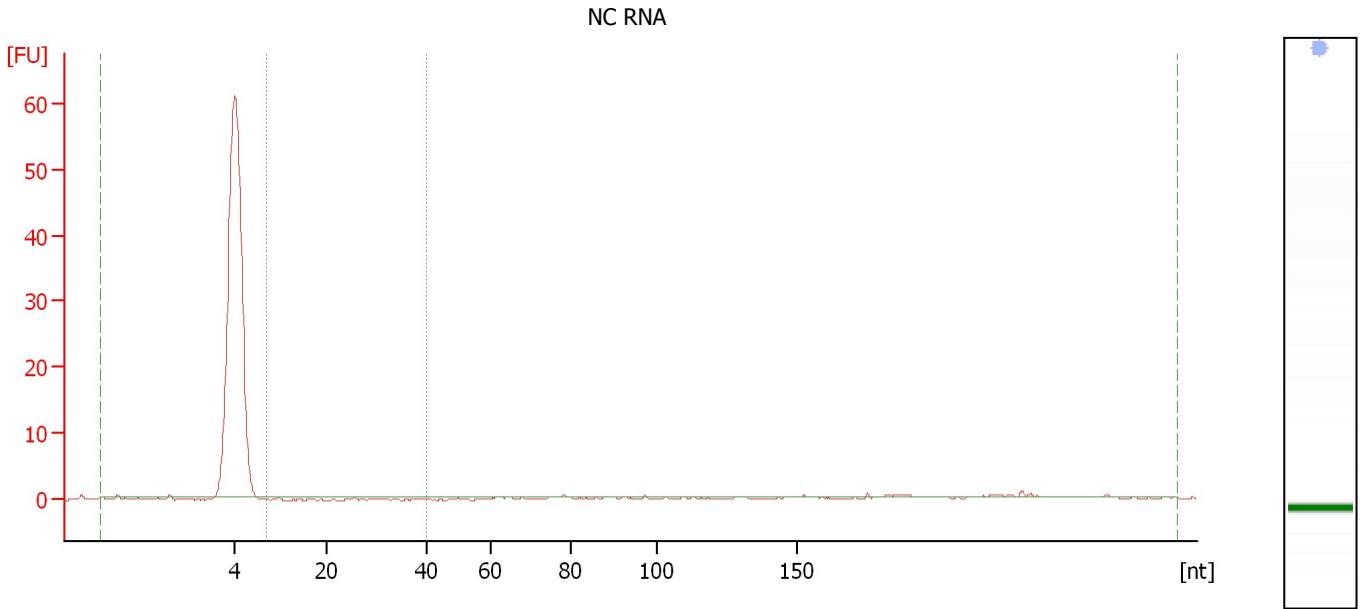
**Region table for sample 2 : NB RNA**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	290	64	100.0	46.7	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	22	41.8	12.8	27	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
 Modified: 5/9/2017 10:54:22 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : NC RNA**

Small RNA Concentration [pg/μl]:	3.5	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
miRNA Concentration [pg/μl]:	0.0	Result Flagging Label:	All Other Samples
miRNA / Small RNA Ratio [%]:	0		

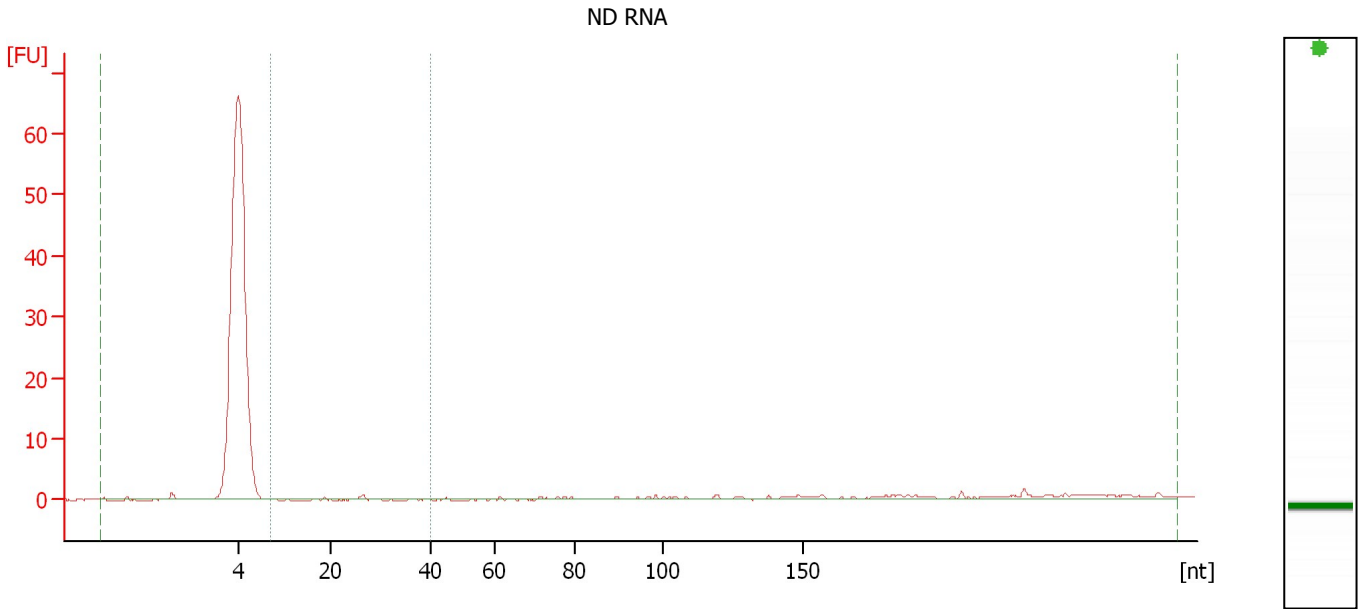
**Region table for sample 3 : NC RNA**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	286	14	100.0	3.5	100	<span style="background-color: #800000; display: inline-block; width: 10px; height: 10px;"></span>
miRNA	10	40	12	0.0	0.0	0	<span style="background-color: #008000; display: inline-block; width: 10px; height: 10px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : ND RNA**

Small RNA Concentration [pg/μl]:	15.5	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	1.6	Result Flagging Label:	10 % miRNA; Concentration: 1.60 pg/μl
miRNA / Small RNA Ratio [%]:	10		

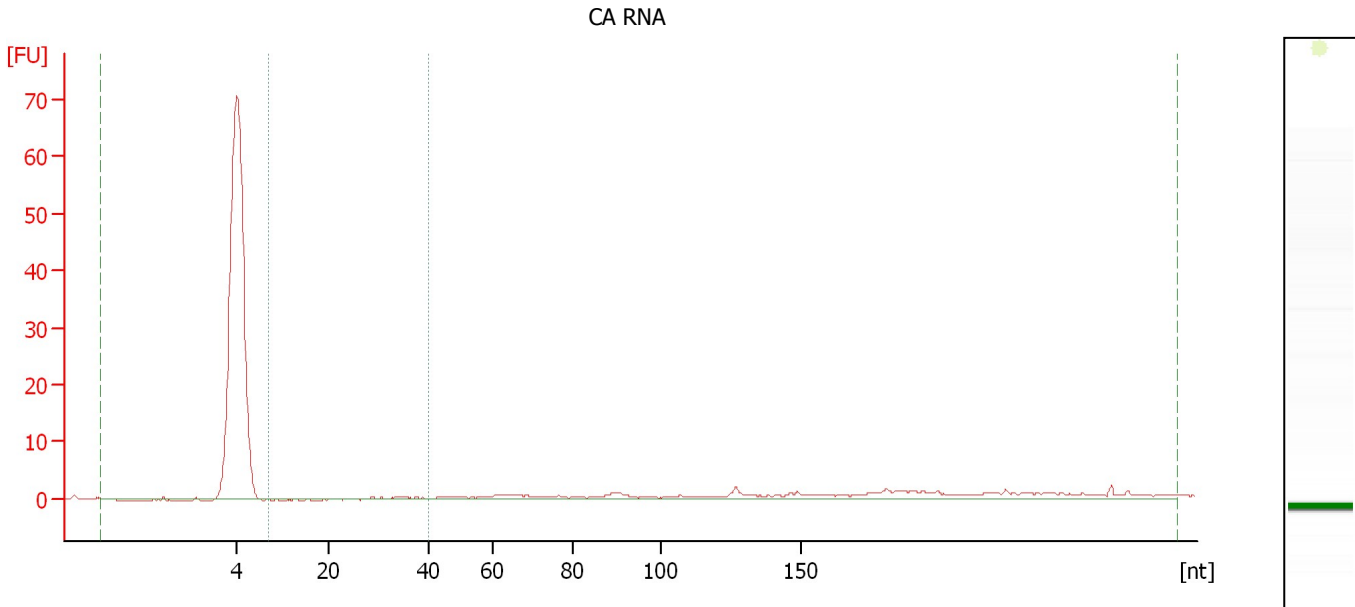
**Region table for sample 4 : ND RNA**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	284	39	100.0	15.5	100	<span style="background-color: purple; width: 15px; height: 15px; display: inline-block;"></span>
miRNA	10	40	27	21.4	1.6	10	<span style="background-color: green; width: 15px; height: 15px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : CA RNA**

Small RNA Concentration [pg/μl]:	15.7	Result Flagging Color:	<span style="background-color: #d9ead3; border: 1px solid #ccc; display: inline-block; width: 20px; height: 10px;"></span>
miRNA Concentration [pg/μl]:	0.3	Result Flagging Label:	2 % miRNA; Concentration: 0.30 pg/μl
miRNA / Small RNA Ratio [%]:	2		

**Region table for sample 5 : CA RNA**

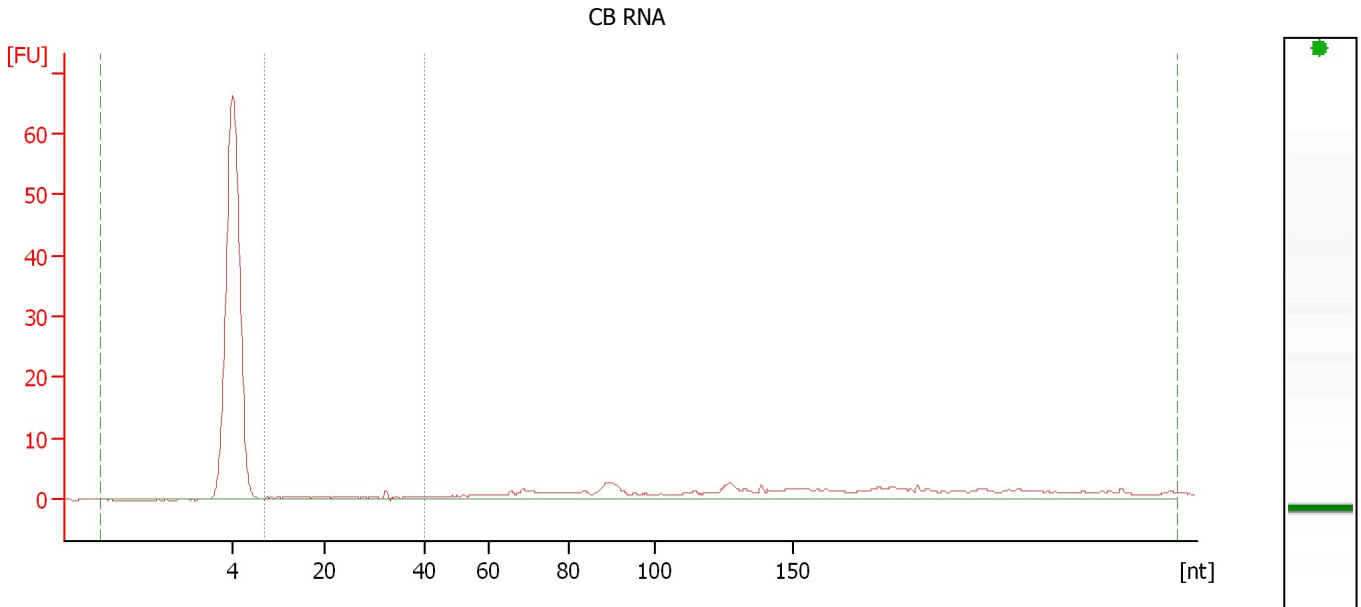
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	285	50	100.0	15.7	100	<span style="background-color: #d9534f; border: 1px solid #ccc; display: inline-block; width: 15px; height: 15px;"></span>
miRNA	10	40	33	10.3	0.3	2	<span style="background-color: #548235; border: 1px solid #ccc; display: inline-block; width: 15px; height: 15px;"></span>



Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : CB RNA**

Small RNA Concentration [pg/μl]:	54.3	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	11.6	Result Flagging Label:	21 % miRNA; Concentration: 11.60 pg/μl
miRNA / Small RNA Ratio [%]:	21		

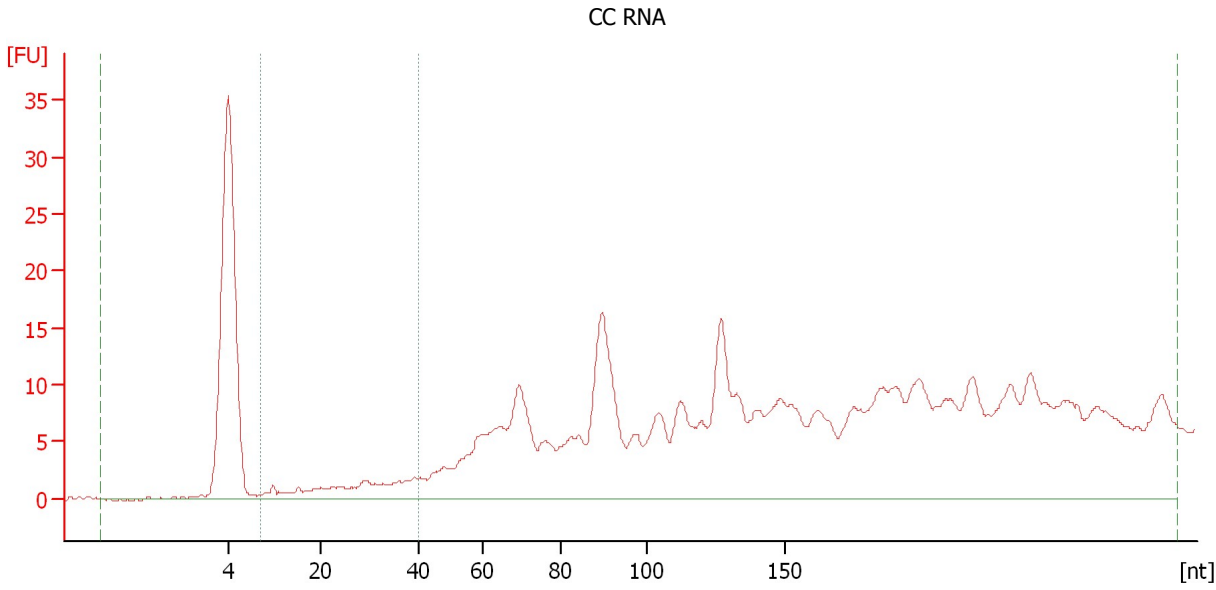
**Region table for sample 6 : CB RNA**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	288	75	100.0	54.3	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	25	35.2	11.6	21	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : CC RNA**

Small RNA Concentration [pg/μl]:	557.0	Result Flagging Color:	<span style="background-color: green; color: black;"> </span>
miRNA Concentration [pg/μl]:	66.8	Result Flagging Label:	12 % miRNA; Concentration: 66.80 pg/μl
miRNA / Small RNA Ratio [%]:	12		

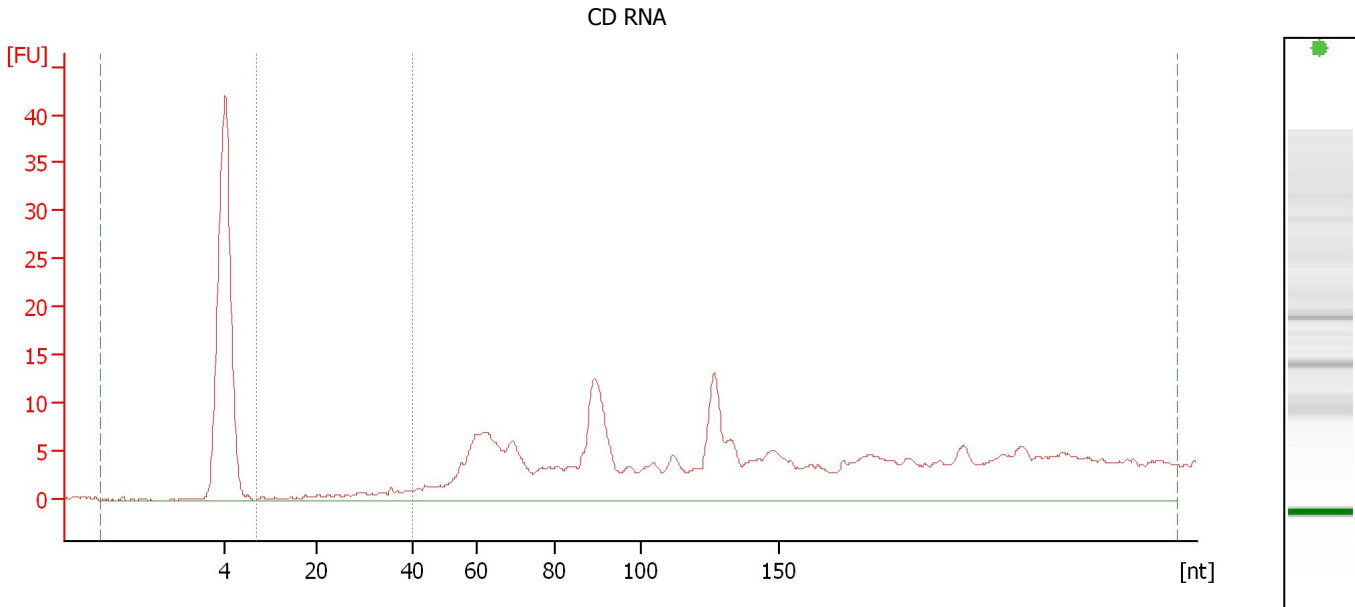
**Region table for sample 7 : CC RNA**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	292	150	55.3	557.0	100	<span style="background-color: maroon; color: black;"> </span>
miRNA	10	40	27	31.5	66.8	12	<span style="background-color: green; color: black;"> </span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : CD RNA**

Small RNA Concentration [pg/μl]:	314.3	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	28.8	Result Flagging Label:	9 % miRNA; Concentration: 28.80 pg/μl
miRNA / Small RNA Ratio [%]:	9		

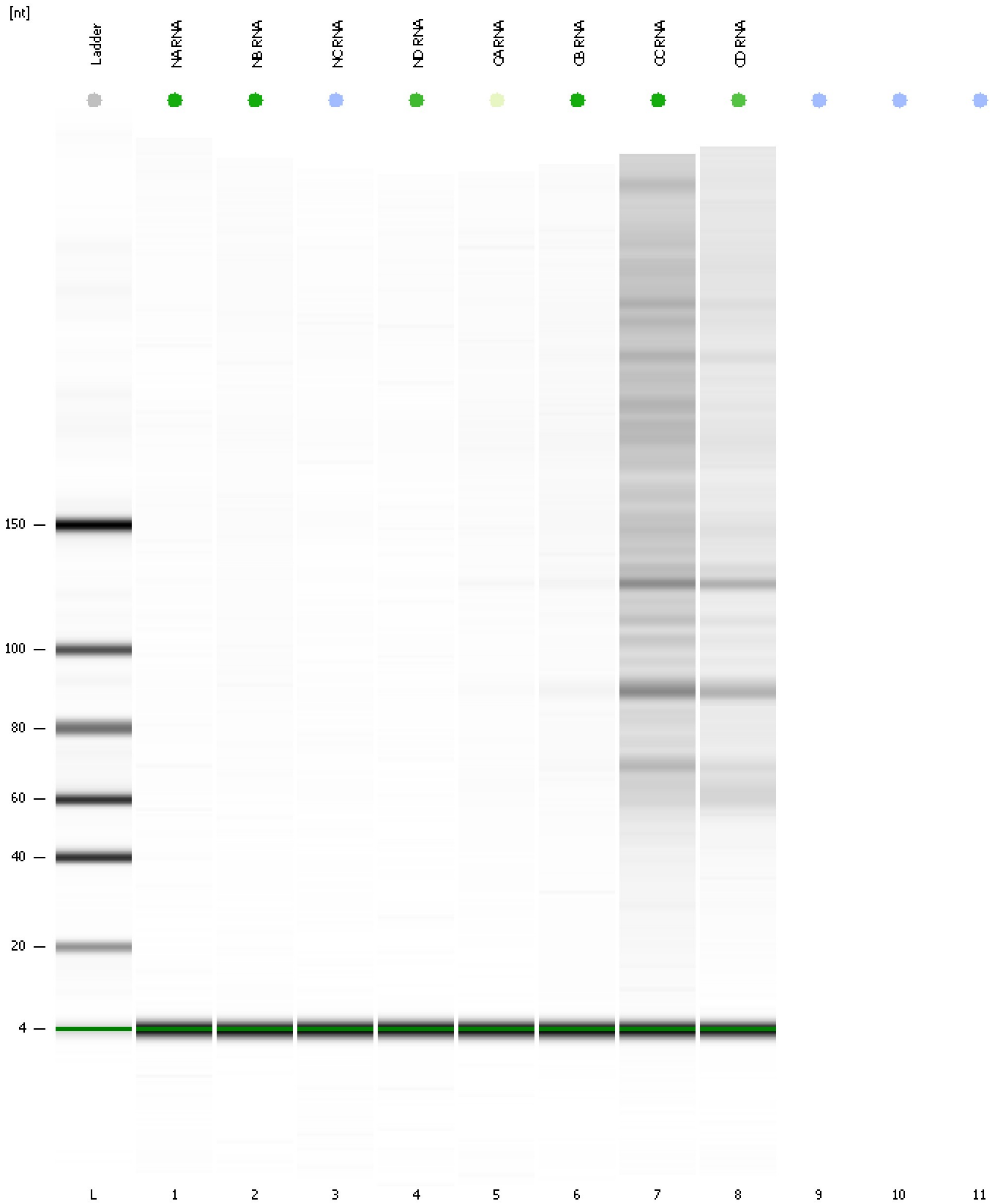
**Region table for sample 8 : CD RNA**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	295	132	66.7	314.3	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	29	28.3	28.8	9	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
Modified: 5/9/2017 10:54:22 AM

**Gel Image**



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Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-09\2017-05-09\_001.xad

Created: 5/9/2017 10:28:08 AM  
Modified: 5/9/2017 10:54:22 AM

**Invalid Samples**

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.