

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...expert\data\2024-06-14\Nova1085\_2\_4-6\_Post-DNase\_RNA\_QC.xad

Created: 6/14/2024 4:40:12 PM  
Modified: 6/14/2024 5:35:46 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\Eukaryote Total RNA Pico Series II.xsy

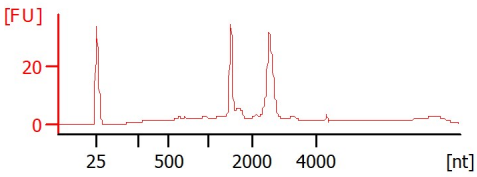
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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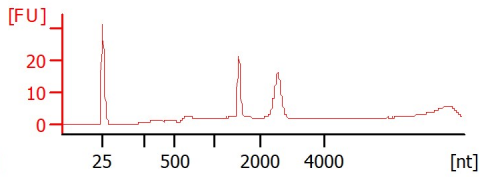
Chip Information:

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

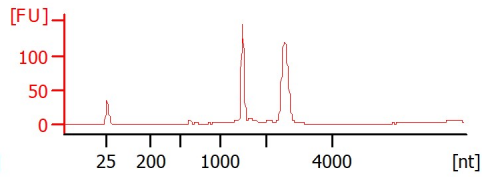
**Nova1085-2**  
200B\_OST  
RIN: 8.20



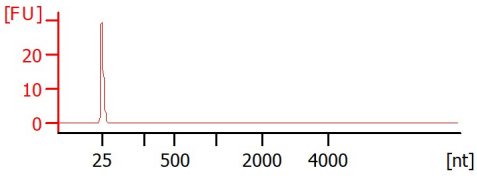
**Nova1085-4**  
435B\_OST  
RIN: 8.60



**Nova1085-5**  
347\_OST  
RIN: 9.80



**Nova1085-6**  
417\_OST  
RIN N/A



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

Sample Name	Sample Comment	Status	Result Label	Result Color
Nova1085-2	200B_OST	✓	RIN: 8.20	
Nova1085-4	435B_OST	✓	RIN: 8.60	
Nova1085-5	347_OST	✓	RIN: 9.80	
Nova1085-6	417_OST	✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

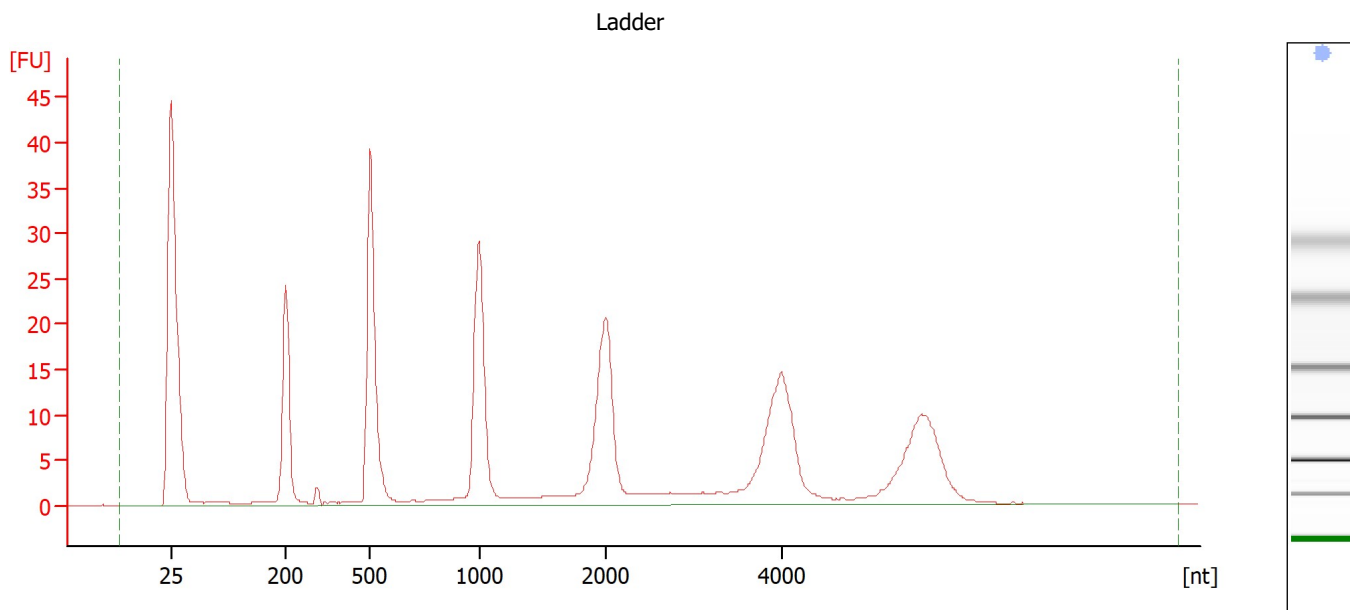
### Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

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**Electropherogram Summary**



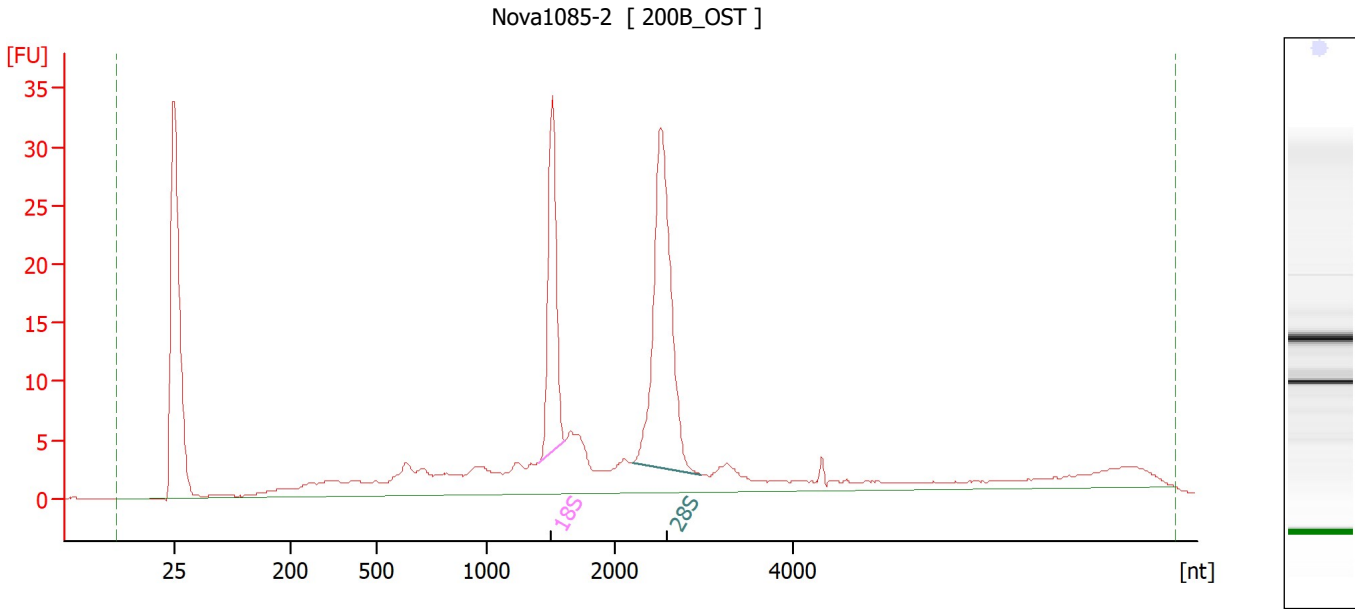
**Overall Results for Ladder**

RNA Area:	295.6	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Nova1085-2**

RNA Area:	235.8	RNA Integrity Number (RIN):	8.2 (B.02.10)
RNA Concentration:	798 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.20

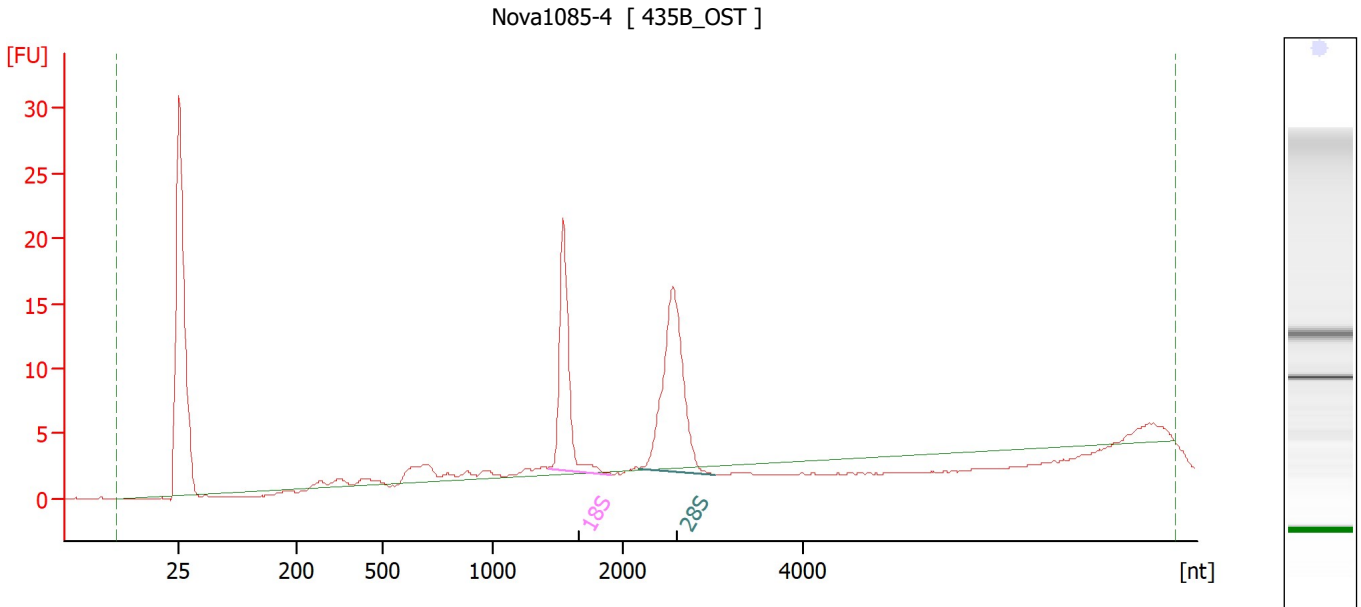
**Fragment table for sample 1 : Nova1085-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,410	1,610	32.0	13.6
28S	2,208	2,973	60.6	25.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Nova1085-4**

RNA Area:	73.9	RNA Integrity Number (RIN):	8.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	250 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.60

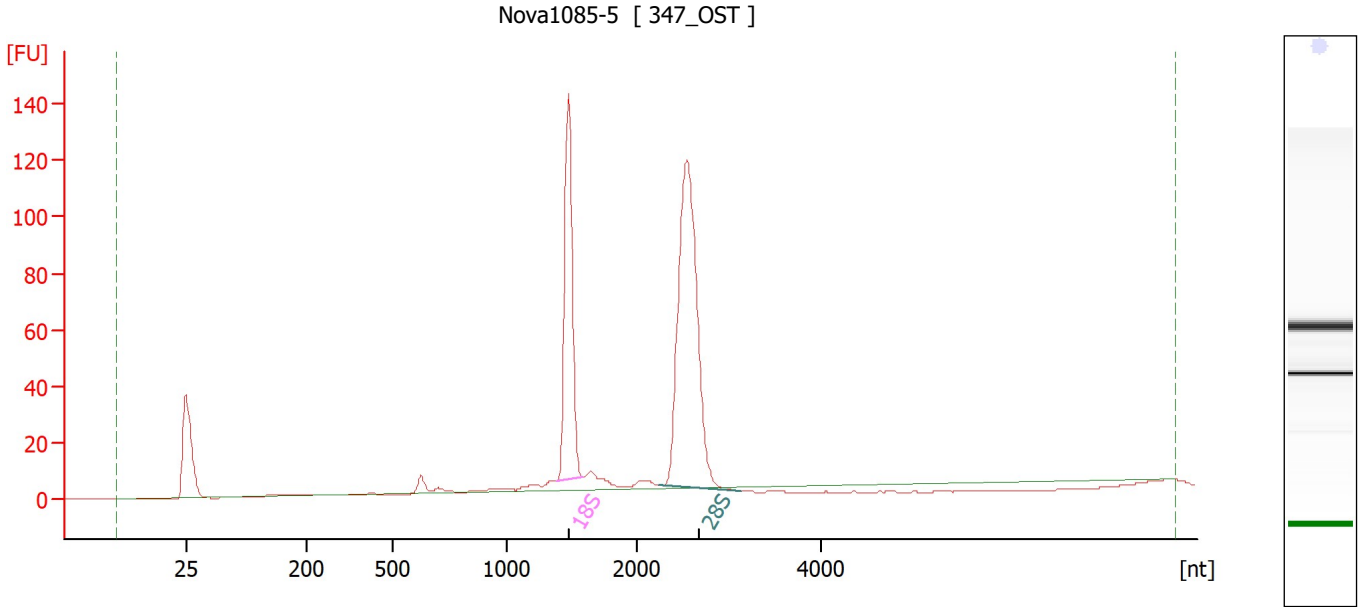
**Fragment table for sample 2 : Nova1085-4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,426	1,914	22.9	31.0
28S	2,174	3,027	33.9	45.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...expert\data\2024-06-14\Nova1085\_2\_4-6\_Post-DNase\_RNA\_QC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Nova1085-5**

RNA Area:	453.8	RNA Integrity Number (RIN):	9.8 (B.02.10)
RNA Concentration:	1,535 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.80

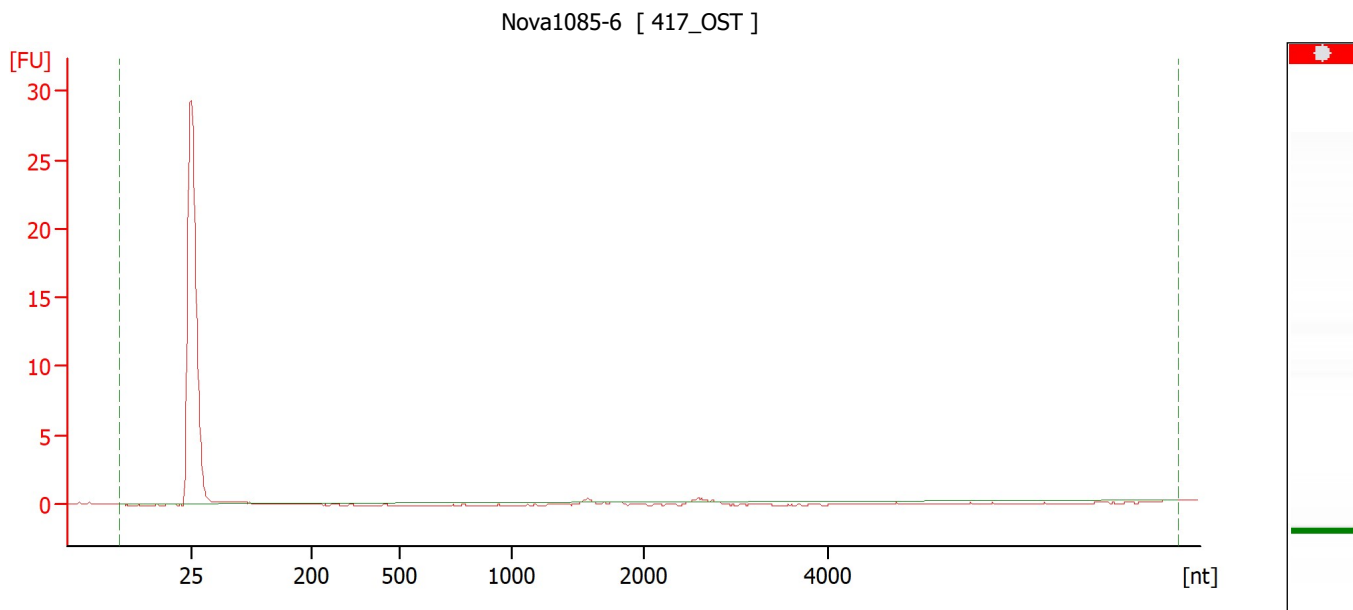
**Fragment table for sample 3 : Nova1085-5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,381	1,585	136.5	30.1
28S	2,236	3,134	257.6	56.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...expert\data\2024-06-14\Nova1085\_2\_4-6\_Post-DNase\_RNA\_QC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Nova1085-6**

RNA Area:	1.2	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	4 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A



Assay Class: Eukaryote Total RNA Pico  
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**Gel Image**

Assay Class: Eukaryote Total RNA Pico  
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**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		6/14/2024 5:03:07 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2024-06-14\Bioanalyzer1_Eukaryote Total RNA Pico_DE34903152_2024-06-14_001.xad)		Instrument	Run		6/14/2024 4:40:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/14/2024 4:40:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/14/2024 4:40:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/14/2024 4:40:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/14/2024 4:40:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/14/2024 4:40:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/14/2024 4:40:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB