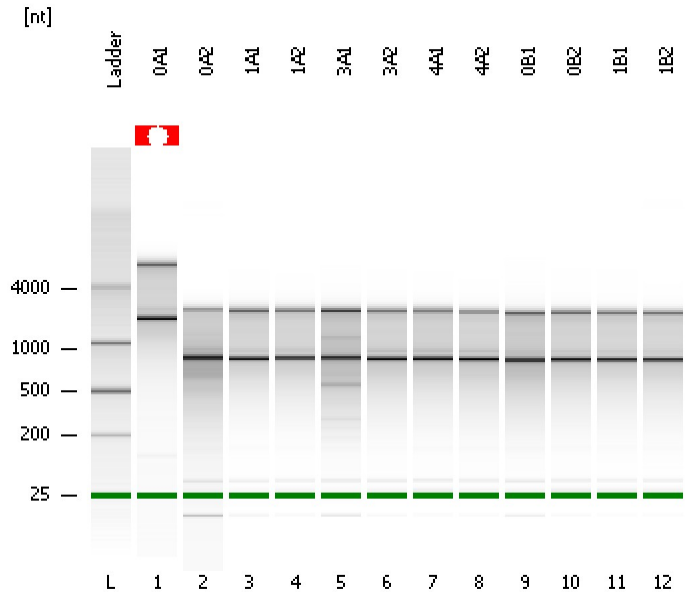


Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

### Electrophoresis File Run Summary



#### Instrument Information:

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

#### Assay Information:

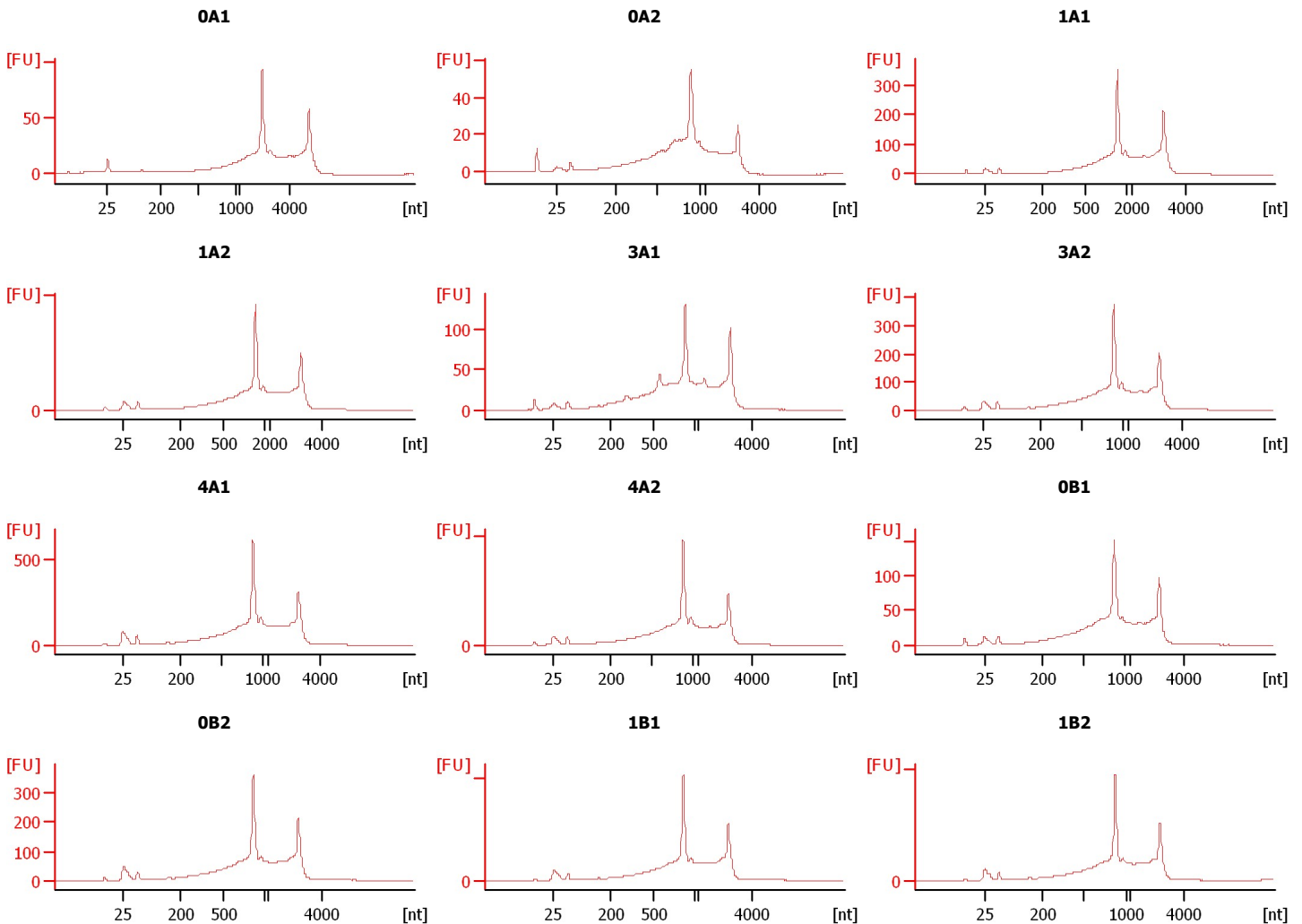
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Prokaryote Total RNA Nano Series II.xsy

Assay Class: Prokaryote Total RNA Nano  
Version: 2.5  
Assay Comments: Total RNA Analysis ng sensitivity (Prokaryote)

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#### Chip Information:

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



Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
0A1		✓		
0A2		✓		
1A1		✓		
1A2		✓		
3A1		✓		
3A2		✓		
4A1		✓		
4A2		✓		
0B1		✓		
0B2		✓		
1B1		✓		
1B2		✓		
Ladder		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
Ladder Concentration [ng/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

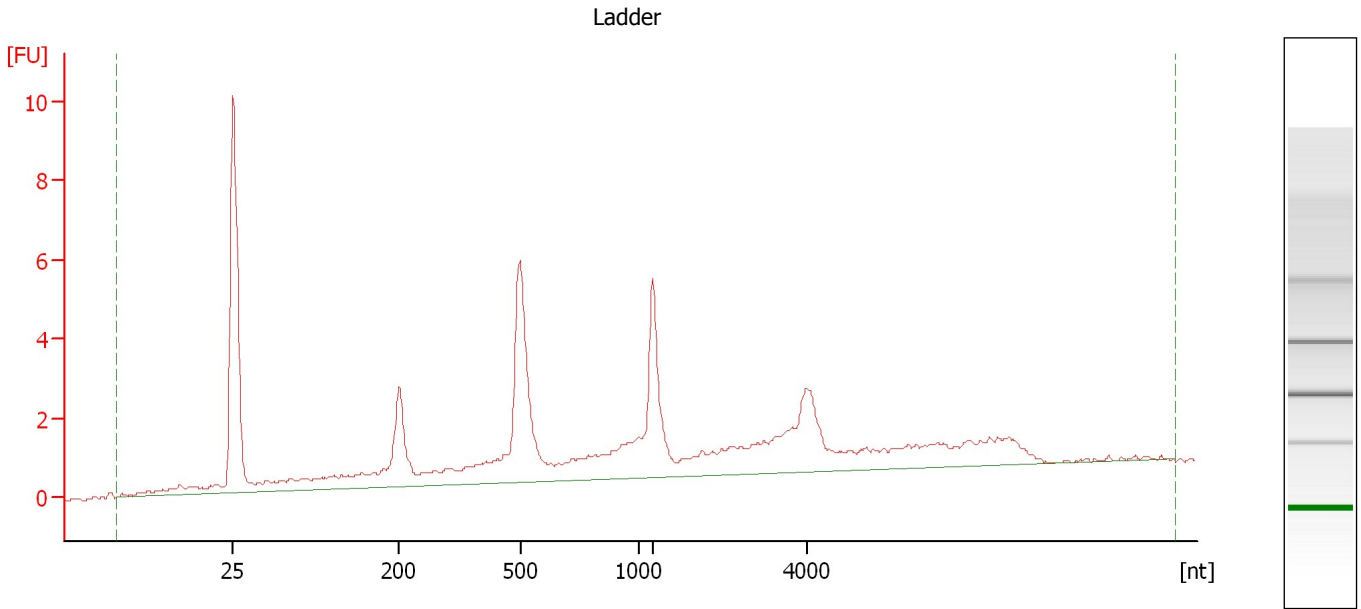
**Ladder**

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

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary**



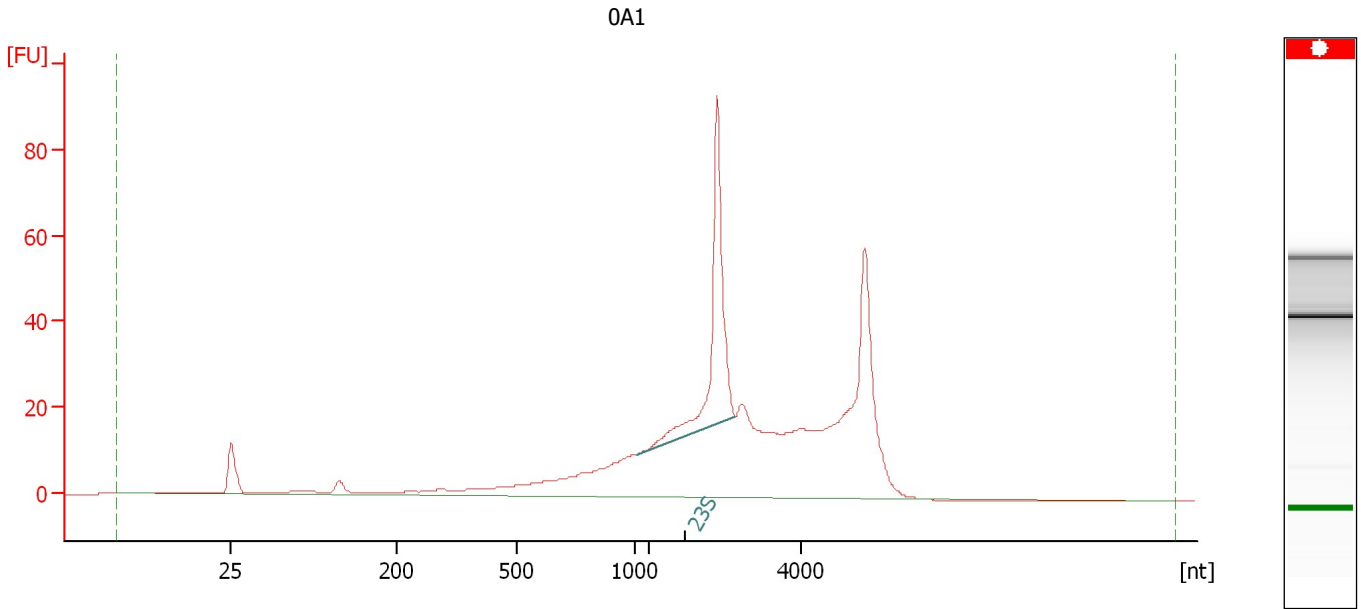
**Overall Results for Ladder**

RNA Area: 66.2                      RNA Concentration: 150 ng/μl

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 0A1**

RNA Area: 611.3                      rRNA Ratio [23s / 16s]: 0.0  
RNA Concentration: 1,386 ng/μl                      RNA Integrity Number (RIN): N/A (B.02.08)

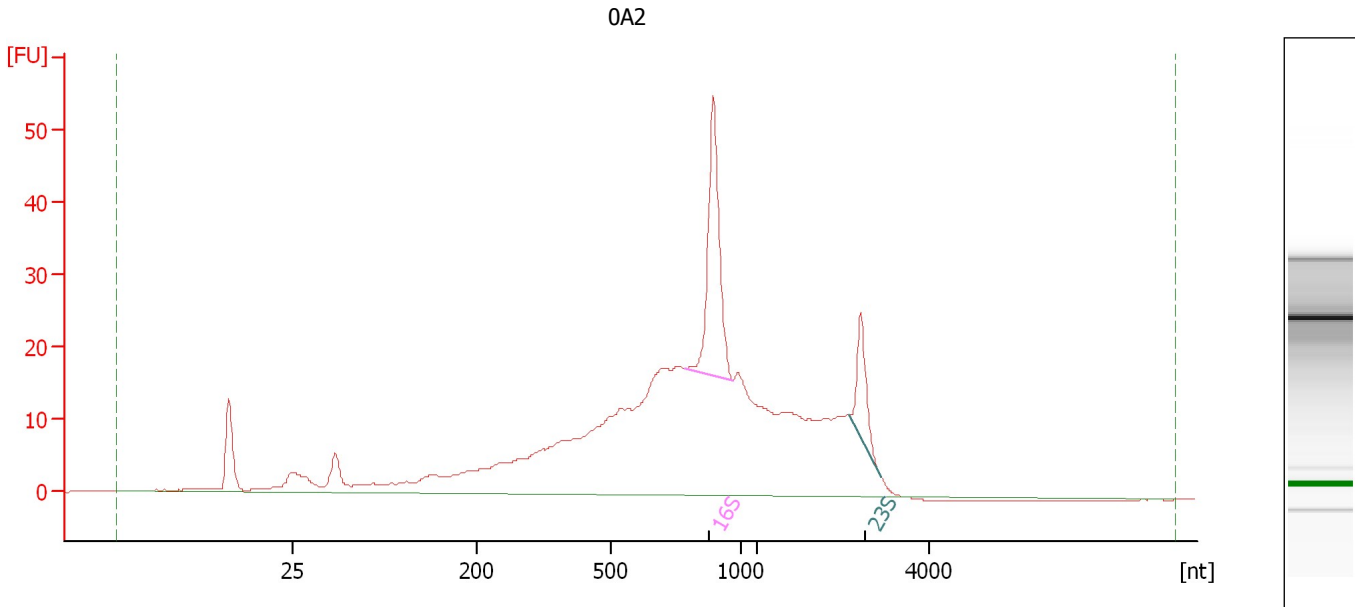
**Fragment table for sample 1 : 0A1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
23S	1,194	3,137	93.5	15.3

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 0A2**

RNA Area: 576.9                      rRNA Ratio [23s / 16s]: 0.3  
RNA Concentration: 1,308 ng/μl                      RNA Integrity Number (RIN): 4.9 (B.02.08)

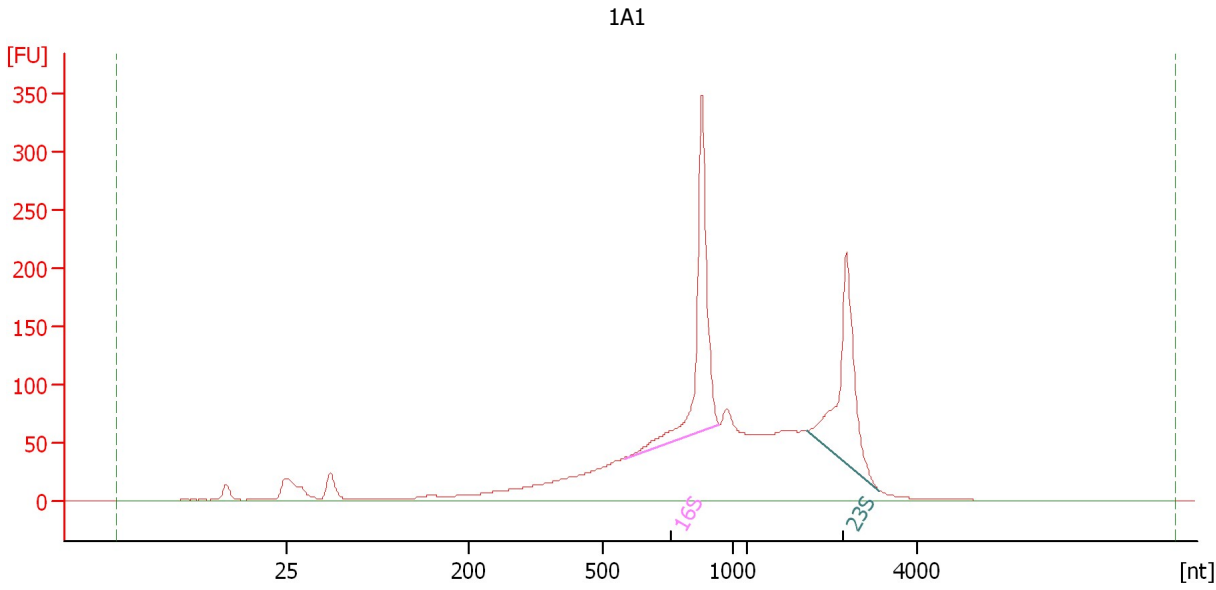
**Fragment table for sample 2 : 0A2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	785	964	49.0	8.5
23S	3,073	3,448	15.6	2.7

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1A1**

RNA Area: 2,278.1                      rRNA Ratio [23s / 16s]: 0.8  
RNA Concentration: 5,164 ng/μl                      RNA Integrity Number (RIN): 7.8 (B.02.08)

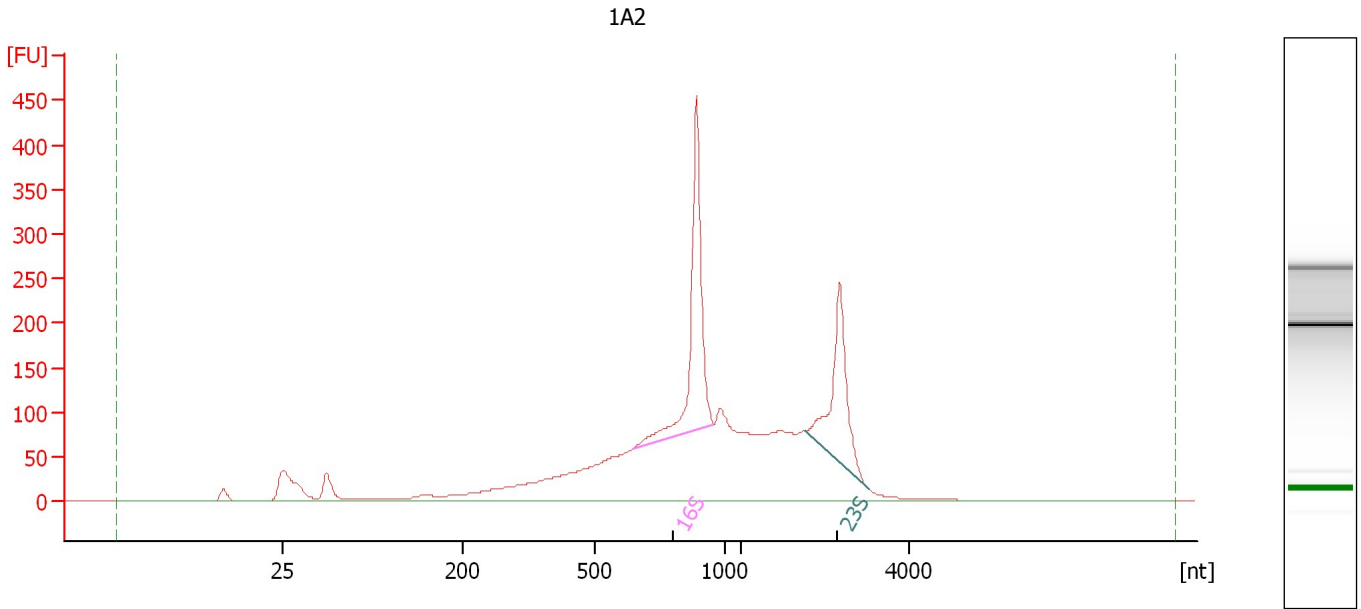
**Fragment table for sample 3 : 1A1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	586	950	343.6	15.1
23S	2,690	3,561	279.7	12.3

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1A2**

RNA Area: 2,995.4                      rRNA Ratio [23s / 16s]: 0.7  
RNA Concentration: 6,790 ng/μl                      RNA Integrity Number (RIN): 7.3 (B.02.08)

**Fragment table for sample 4 : 1A2**

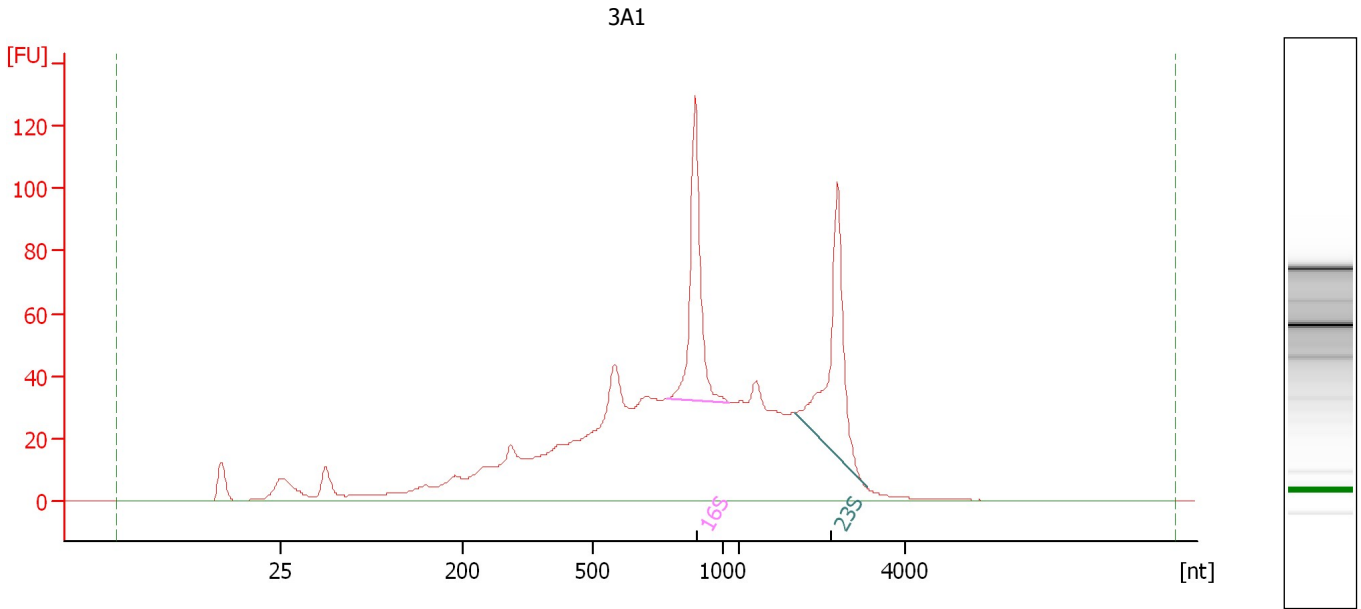
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	641	954	428.9	14.3
23S	2,773	3,536	296.5	9.9



Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 3A1**

RNA Area: 1,327.6                      rRNA Ratio [23s / 16s]: 1.1  
RNA Concentration: 3,009 ng/μl                      RNA Integrity Number (RIN): 6.1 (B.02.08)

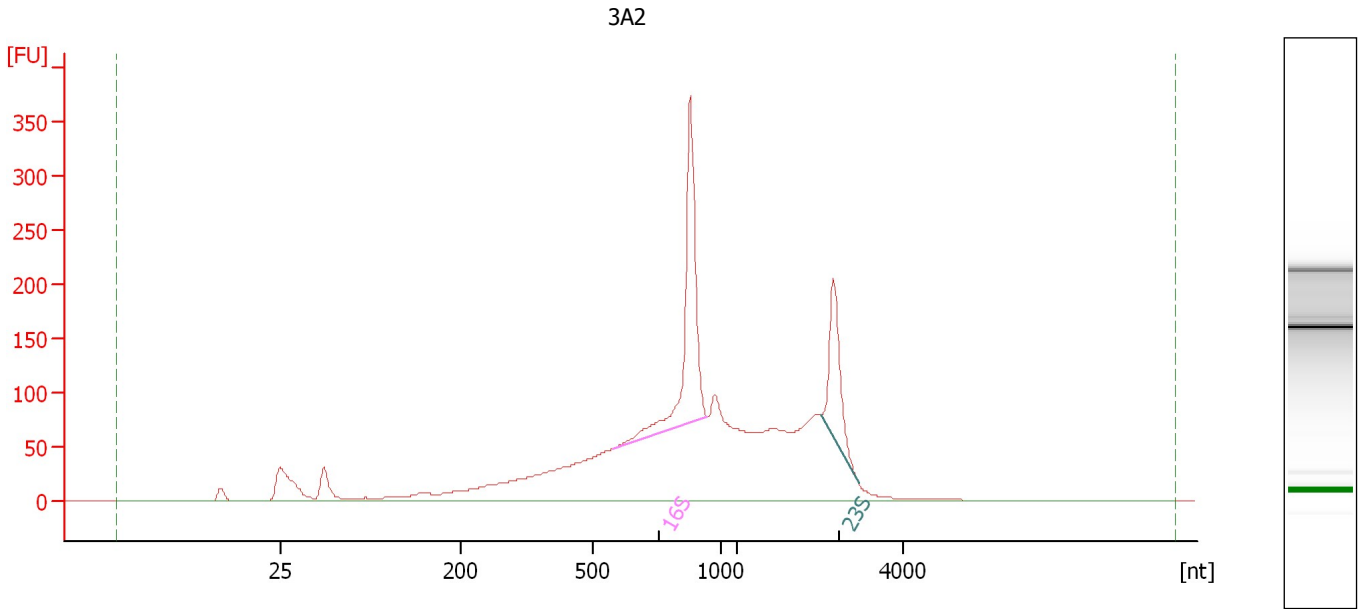
**Fragment table for sample 5 : 3A1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	784	1,410	110.1	8.3
23S	2,683	3,524	122.1	9.2

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 3A2**

RNA Area: 2,704.5                      rRNA Ratio [23s / 16s]: 0.4  
RNA Concentration: 6,130 ng/μl                      RNA Integrity Number (RIN): 6.8 (B.02.08)

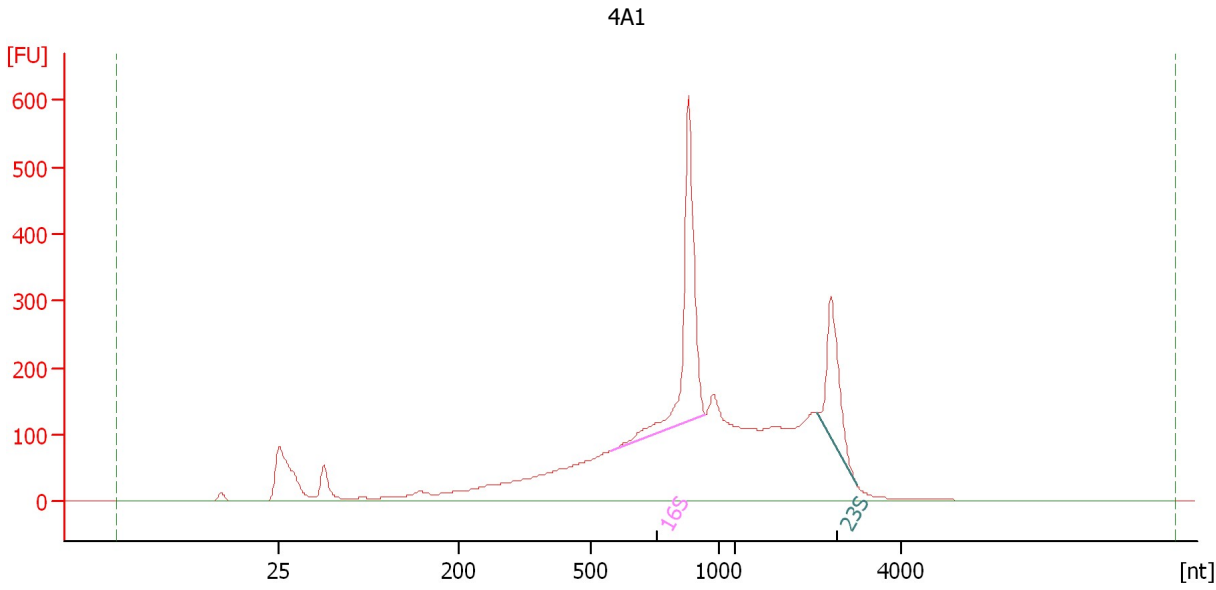
**Fragment table for sample 6 : 3A2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	580	948	367.0	13.6
23S	3,001	3,460	157.4	5.8

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 4A1**

RNA Area: 4,367.7                      rRNA Ratio [23s / 16s]: 0.4  
RNA Concentration: 9,900 ng/μl                      RNA Integrity Number (RIN): 6.8 (B.02.08)

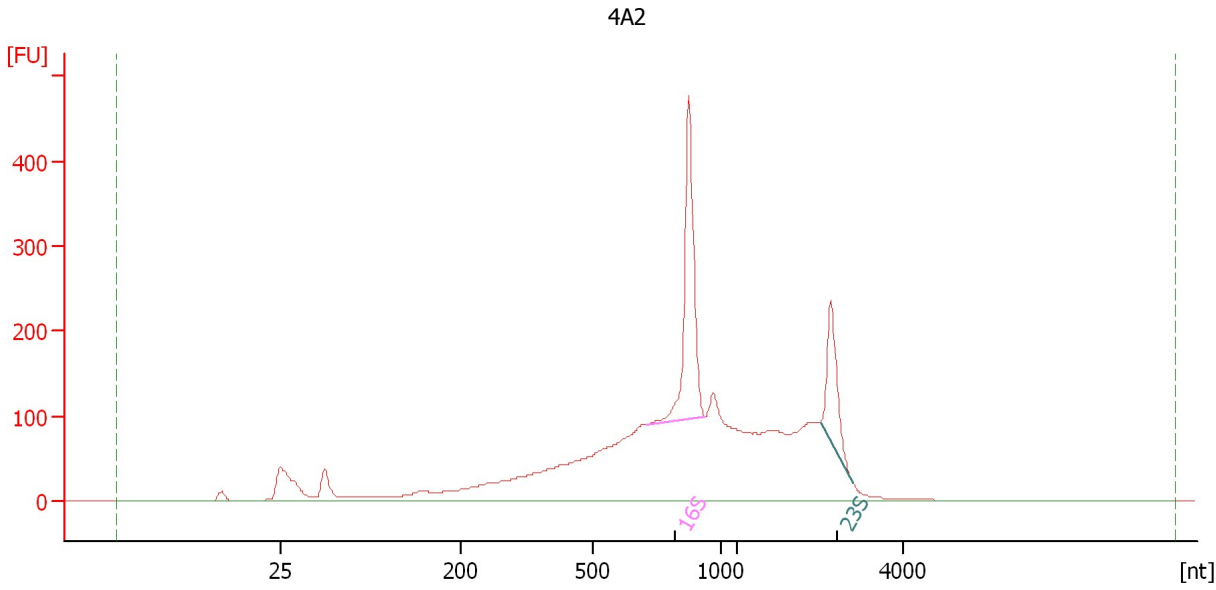
**Fragment table for sample 7 : 4A1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	582	947	597.0	13.7
23S	3,000	3,460	257.0	5.9

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 4A2**

RNA Area: 3,434.4                      rRNA Ratio [23s / 16s]: 0.4  
RNA Concentration: 7,785 ng/μl                      RNA Integrity Number (RIN): 6.1 (B.02.08)

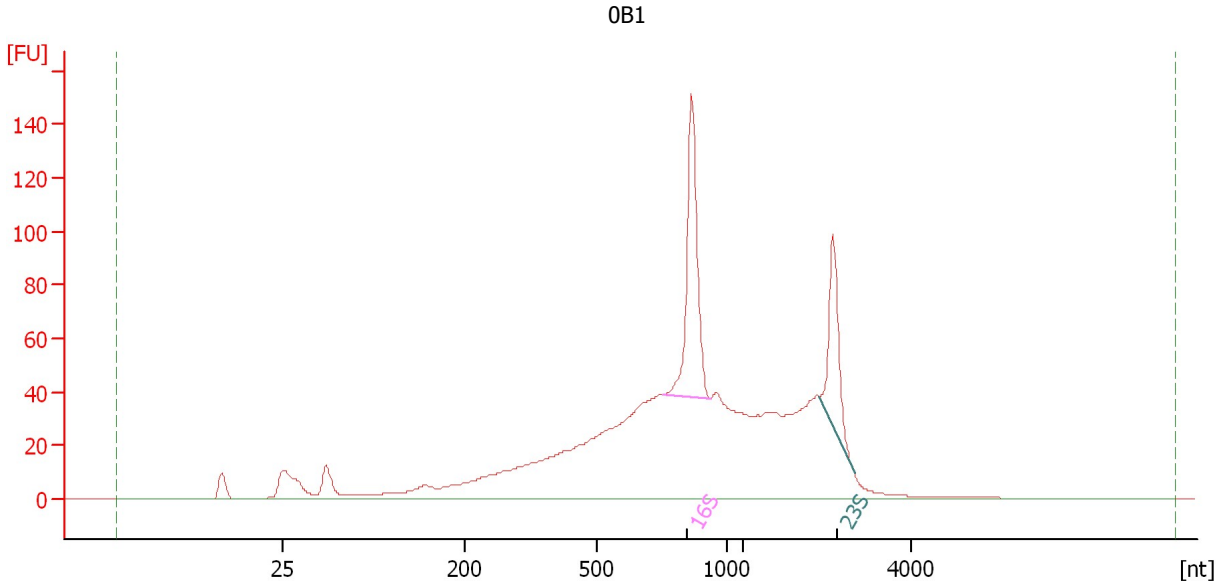
**Fragment table for sample 8 : 4A2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	708	940	407.2	11.9
23S	3,001	3,396	168.2	4.9

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : OB1**

RNA Area: 1,361.8                      rRNA Ratio [23s / 16s]: 0.5  
RNA Concentration: 3,087 ng/μl                      RNA Integrity Number (RIN): 5.7 (B.02.08)

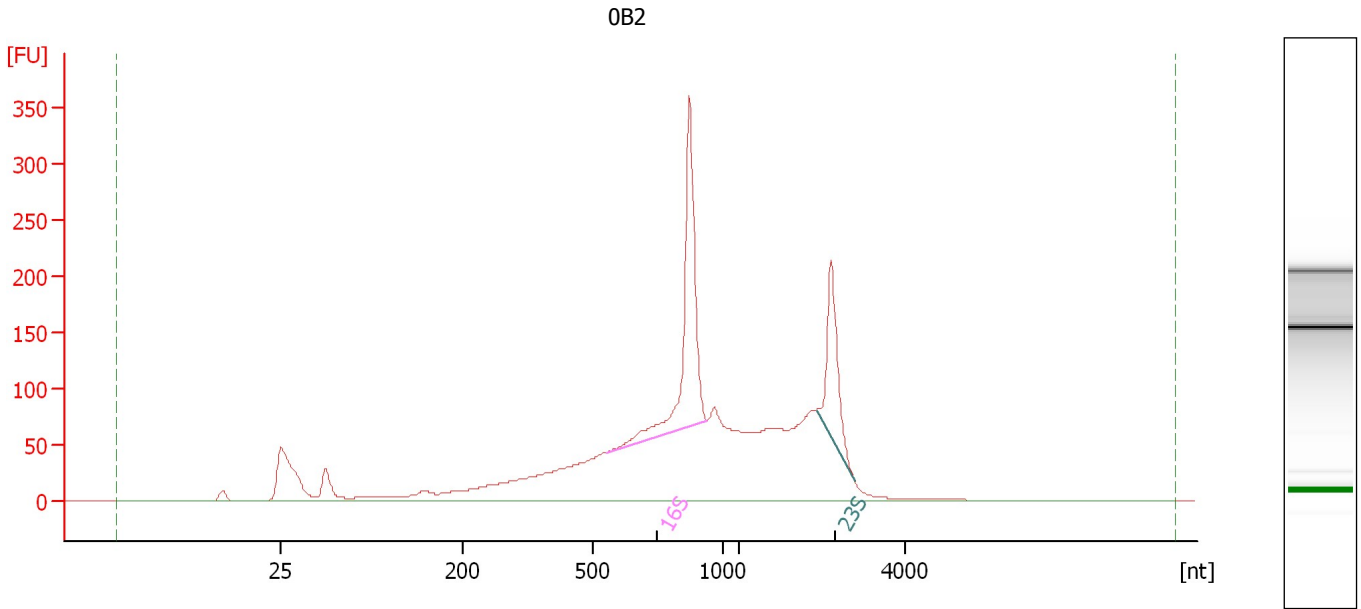
**Fragment table for sample 9 : OB1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	750	935	131.0	9.6
23S	2,914	3,333	69.5	5.1

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : OB2**

RNA Area: 2,595.7                      rRNA Ratio [23s / 16s]: 0.5  
RNA Concentration: 5,884 ng/μl                      RNA Integrity Number (RIN): 7 (B.02.08)

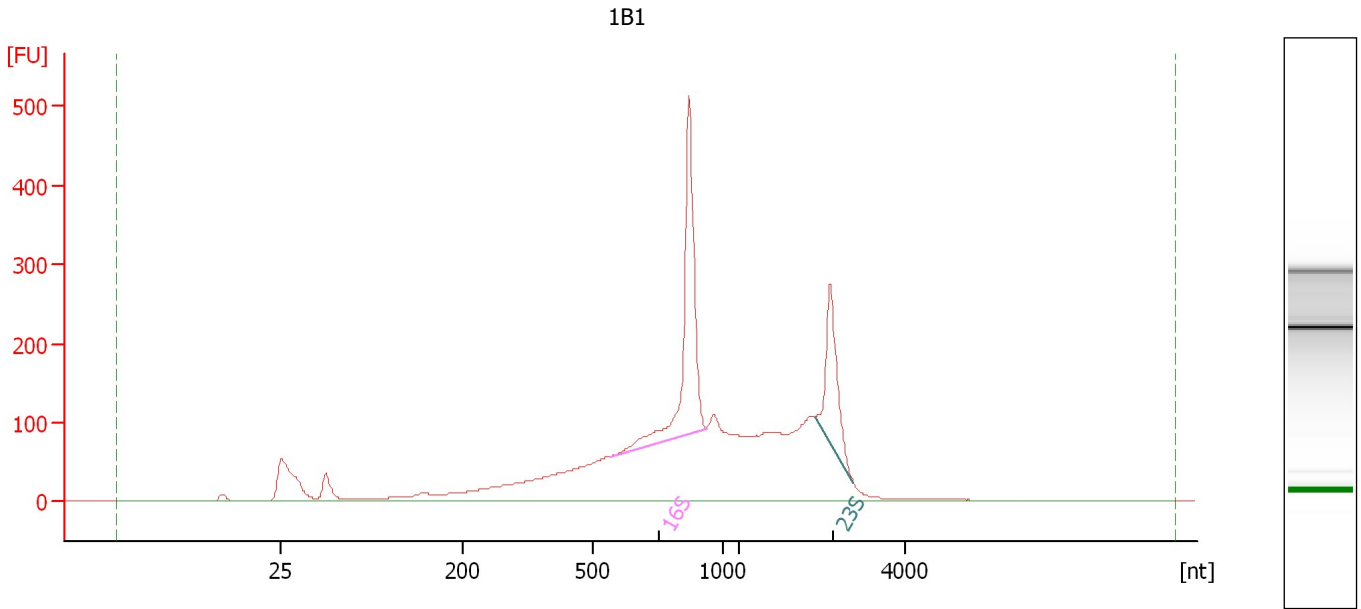
**Fragment table for sample 10 : OB2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	553	937	367.4	14.2
23S	2,938	3,384	166.1	6.4

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 1B1**

RNA Area: 3,366.7                      rRNA Ratio [23s / 16s]: 0.4  
RNA Concentration: 7,631 ng/μl                      RNA Integrity Number (RIN): 7.1 (B.02.08)

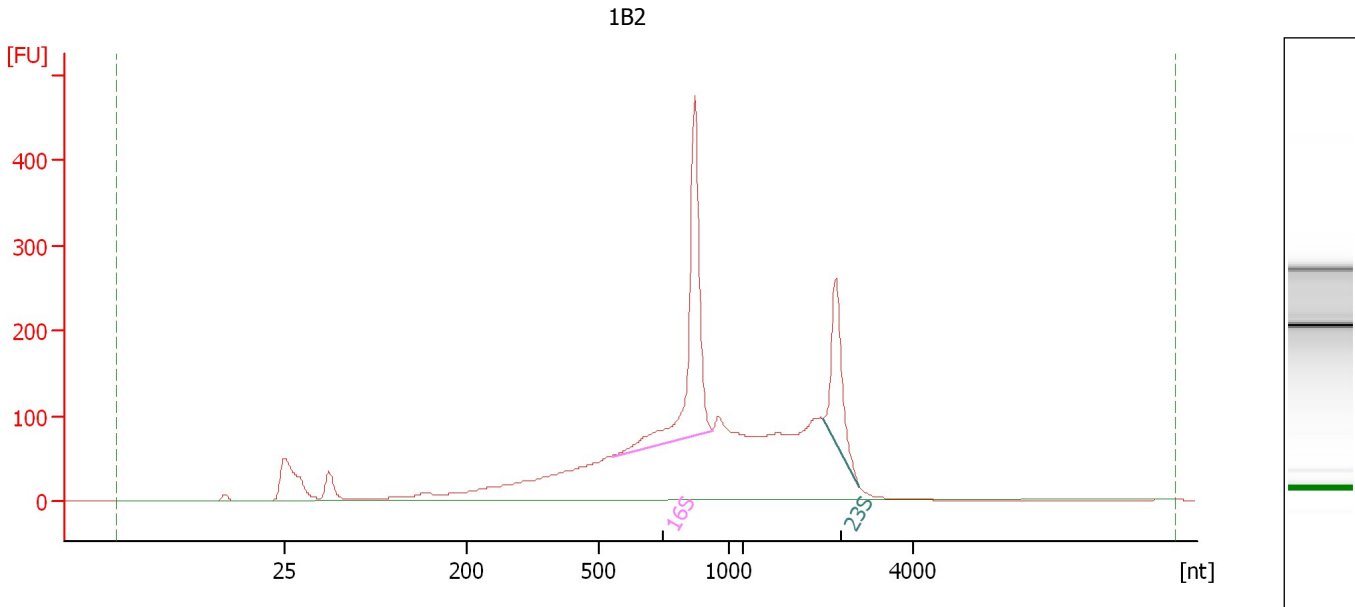
**Fragment table for sample 11 : 1B1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	569	937	510.2	15.2
23S	2,925	3,371	222.0	6.6

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 1B2**

RNA Area: 3,054.8                      rRNA Ratio [23s / 16s]: 0.4  
RNA Concentration: 6,924 ng/μl                      RNA Integrity Number (RIN): 7.1 (B.02.08)

**Fragment table for sample 12 : 1B2**

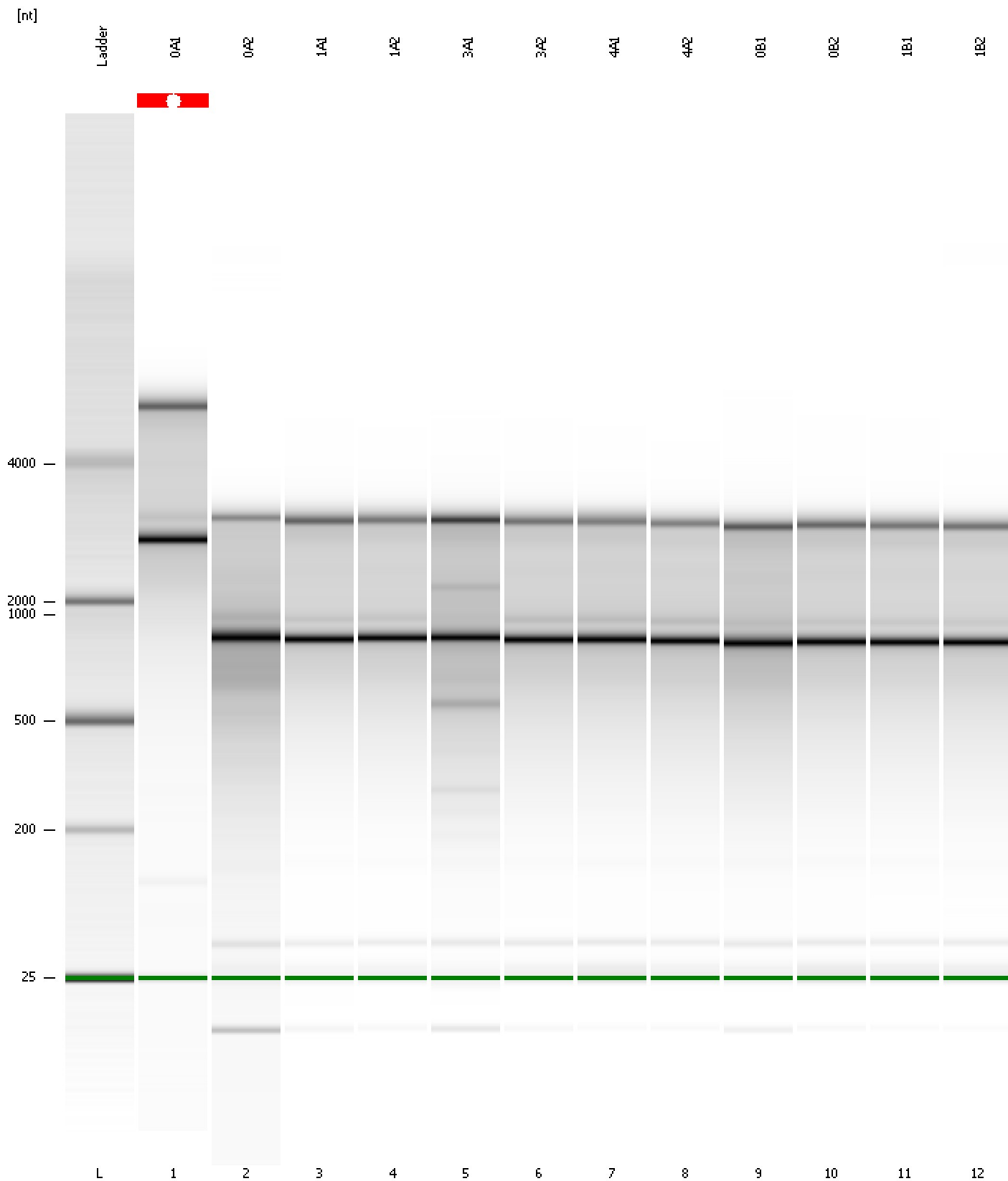
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	554	936	479.4	15.7
23S	2,928	3,372	198.2	6.5



Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
Modified: 8/1/2016 11:30:35 AM

**Gel Image**



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01\_003.xad

Created: 8/1/2016 11:07:32 AM  
 Modified: 8/1/2016 11:30:35 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		8/1/2016 11:30:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_003.xad)		Instrument	Run		8/1/2016 11:07:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/1/2016 11:07:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/1/2016 11:07:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/1/2016 11:07:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/1/2016 11:07:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/1/2016 11:07:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/1/2016 11:07:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1