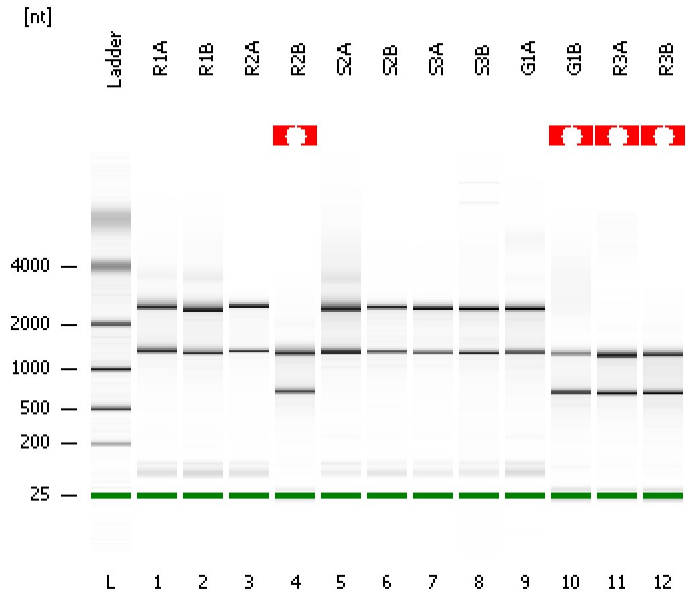


Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electrophoresis File Run Summary



Instrument Information:

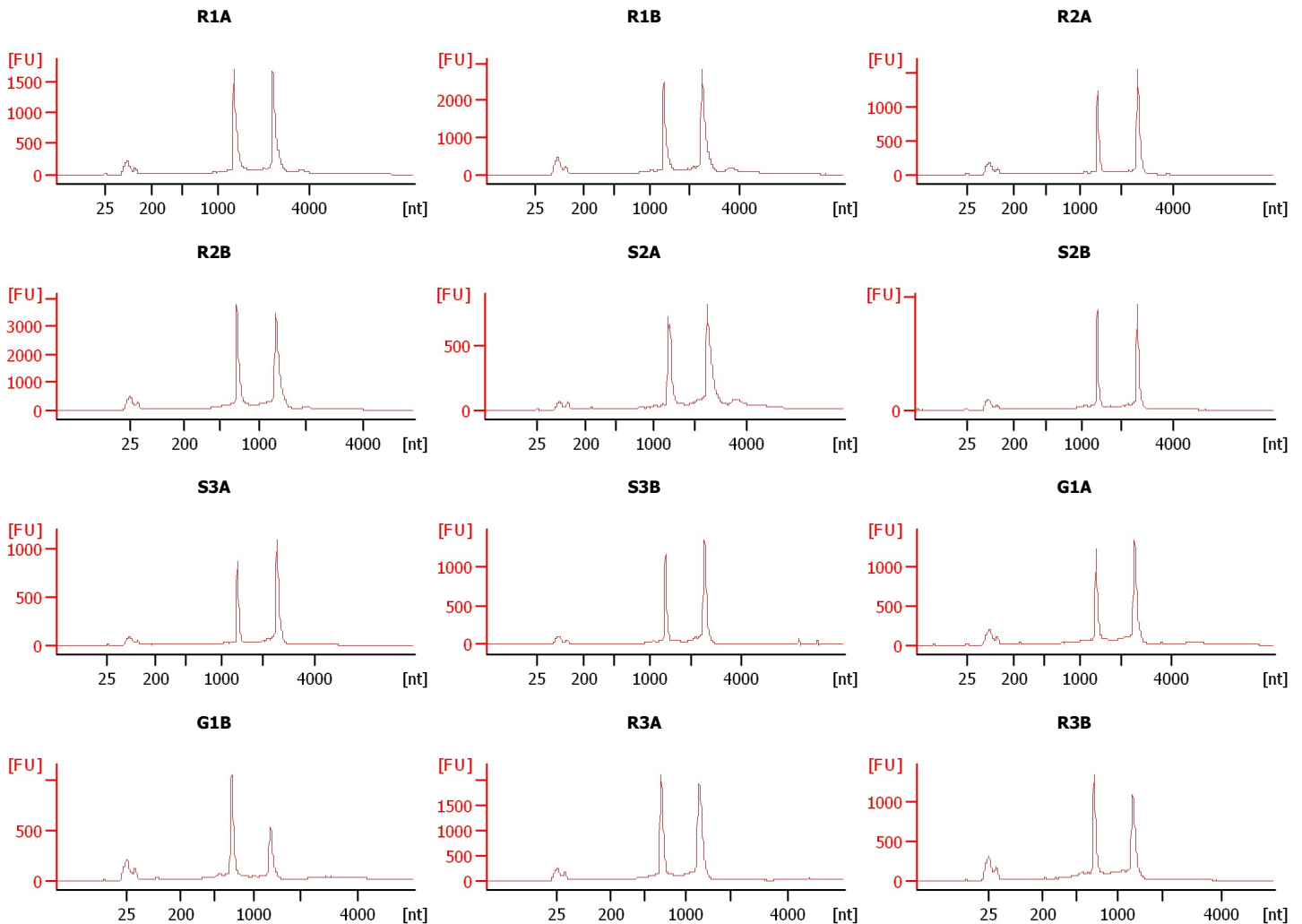
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

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_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
R1A		✓		
R1B		✓		
R2A		✓		
R2B		✓		
S2A		✓		
S2B		✓		
S3A		✓		
S3B		✓		
G1A		✓		
G1B		✓		
R3A		✓		
R3B		✓		
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_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 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

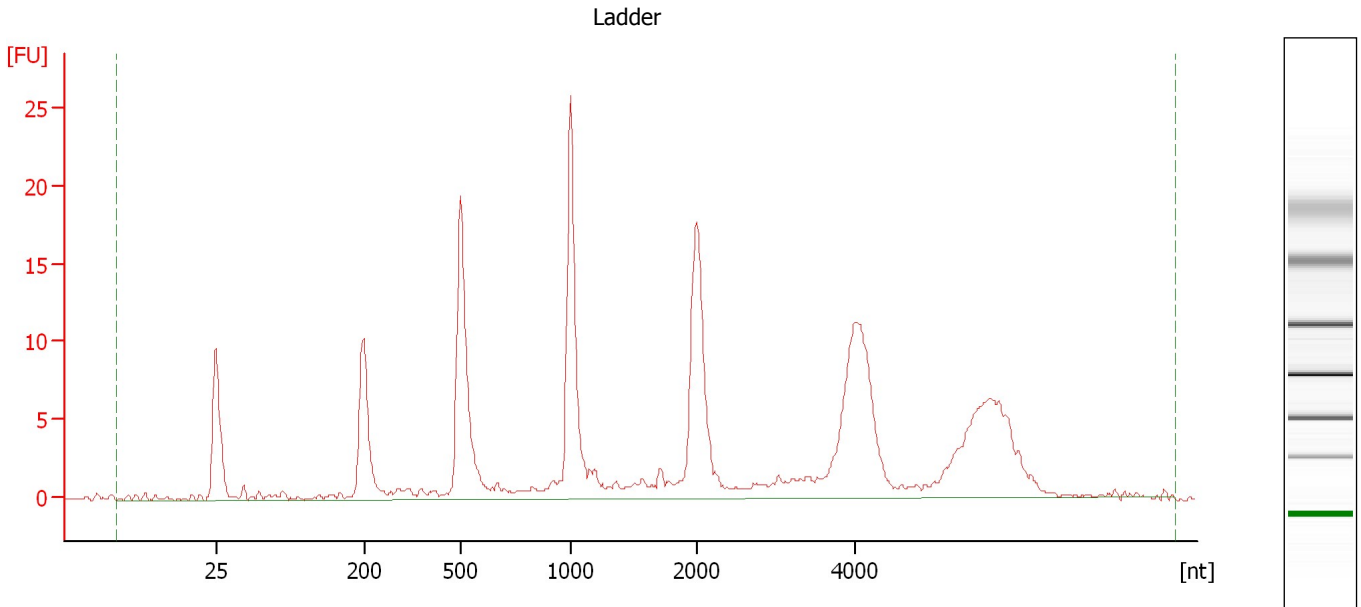
Ladder

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_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary



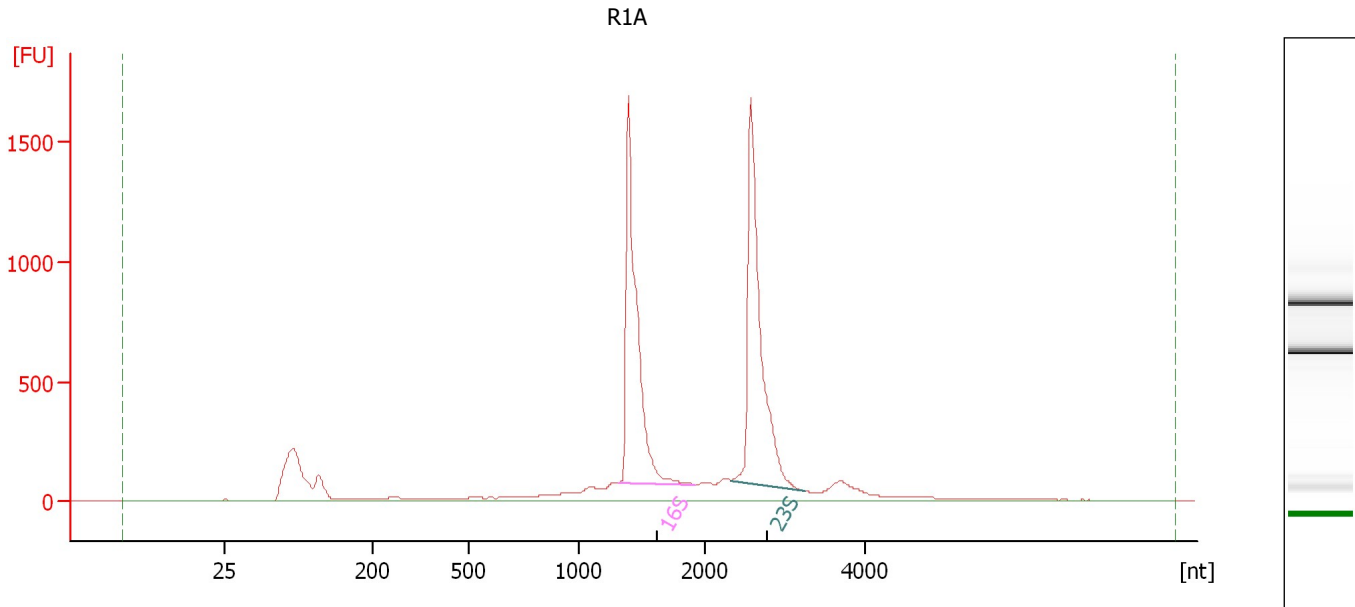
Overall Results for Ladder

RNA Area: 202.6 RNA Concentration: 150 ng/μl

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : R1A

RNA Area: 7,689.0 rRNA Ratio [23s / 16s]: 1.0
RNA Concentration: 5,693 ng/μl RNA Integrity Number (RIN): 9.4 (B.02.08)

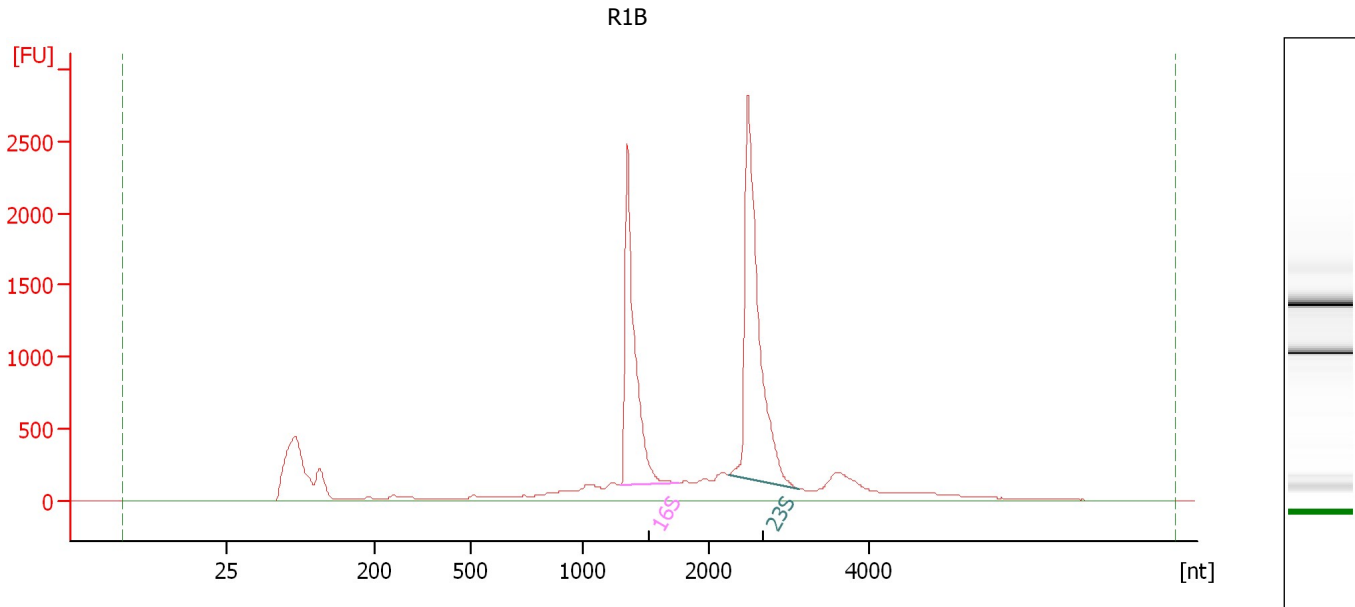
Fragment table for sample 1 : R1A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,311	1,925	2,066.9	26.9
23S	2,336	3,243	2,118.0	27.5

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : R1B

RNA Area: 13,836.2 rRNA Ratio [23s / 16s]: 1.4
RNA Concentration: 10,244 ng/μl RNA Integrity Number (RIN): 9.3 (B.02.08)

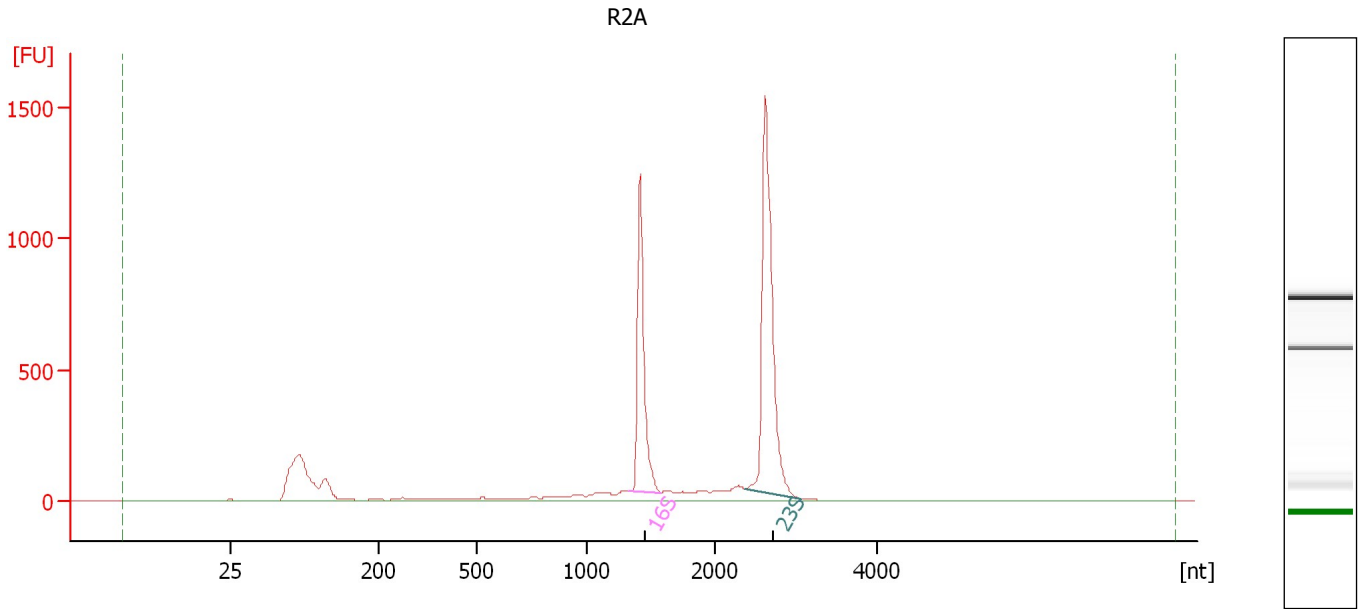
Fragment table for sample 2 : R1B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,306	1,768	2,761.3	20.0
23S	2,243	3,133	3,942.4	28.5

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : R2A

RNA Area: 4,626.4 rRNA Ratio [23s / 16s]: 1.6
RNA Concentration: 3,425 ng/μl RNA Integrity Number (RIN): 9.6 (B.02.08)

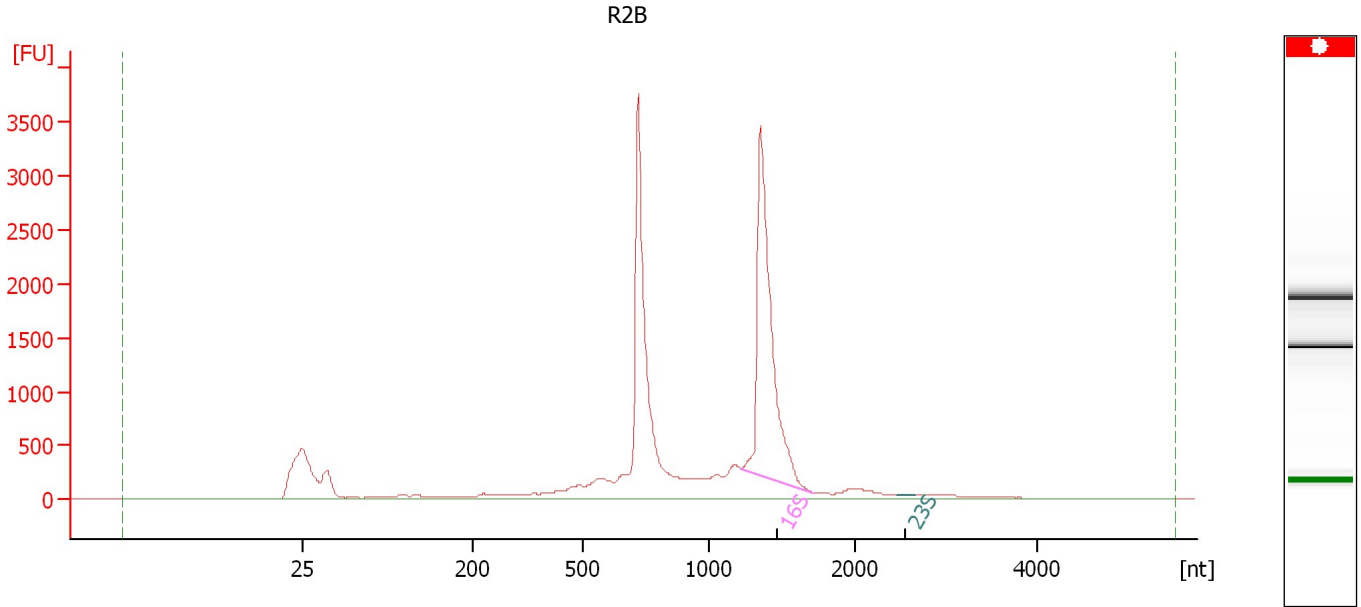
Fragment table for sample 3 : R2A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,329	1,579	998.9	21.6
23S	2,363	3,076	1,604.4	34.7

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : R2B

RNA Area: 15,844.5 rRNA Ratio [23s / 16s]: 0.0
RNA Concentration: 11,731 ng/μl RNA Integrity Number (RIN): N/A (B.02.08)

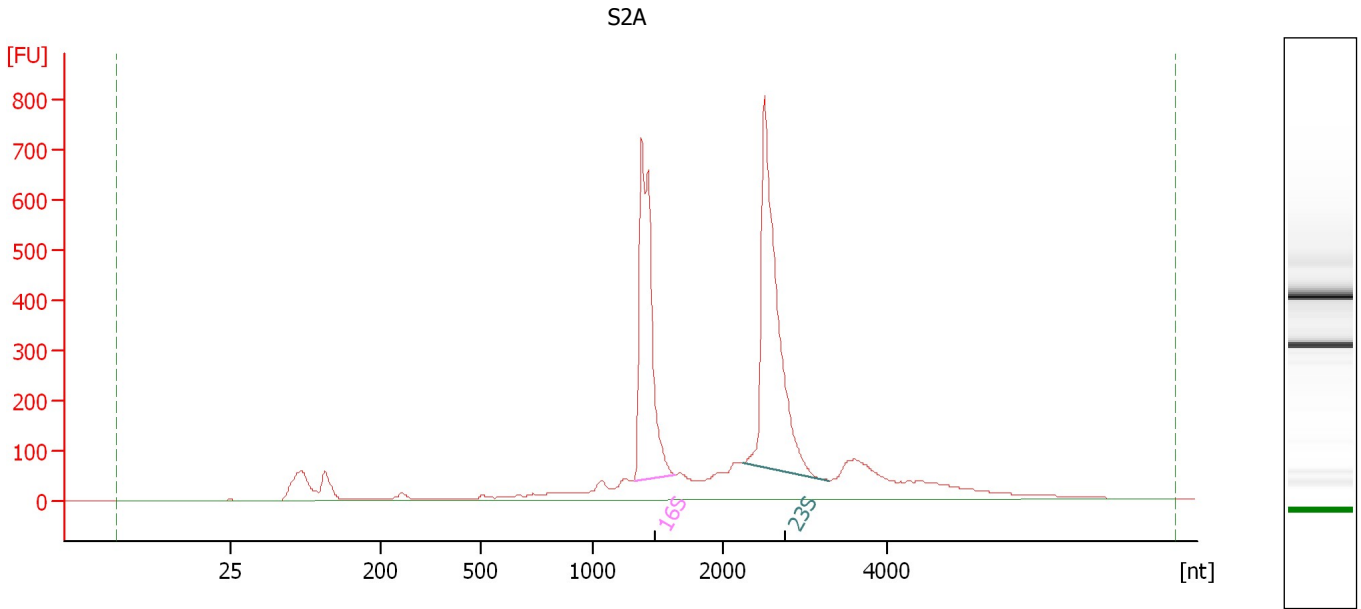
Fragment table for sample 4 : R2B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,219	1,709	4,906.6	31.0
23S	2,456	2,665	1.4	0.0

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : S2A

RNA Area: 4,563.8 rRNA Ratio [23s / 16s]: 1.2
RNA Concentration: 3,379 ng/μl RNA Integrity Number (RIN): 9.4 (B.02.08)

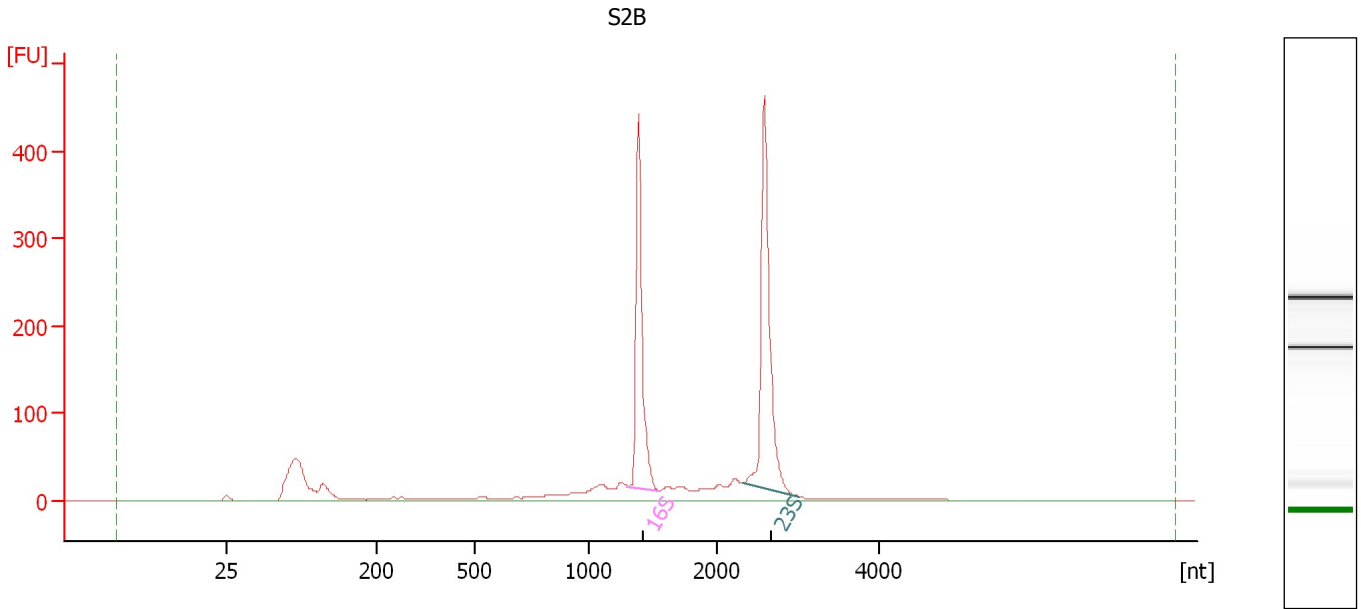
Fragment table for sample 5 : S2A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,314	1,627	997.1	21.8
23S	2,234	3,305	1,244.2	27.3

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : S2B

RNA Area: 1,407.4 rRNA Ratio [23s / 16s]: 1.3
RNA Concentration: 1,042 ng/μl RNA Integrity Number (RIN): 9.1 (B.02.08)

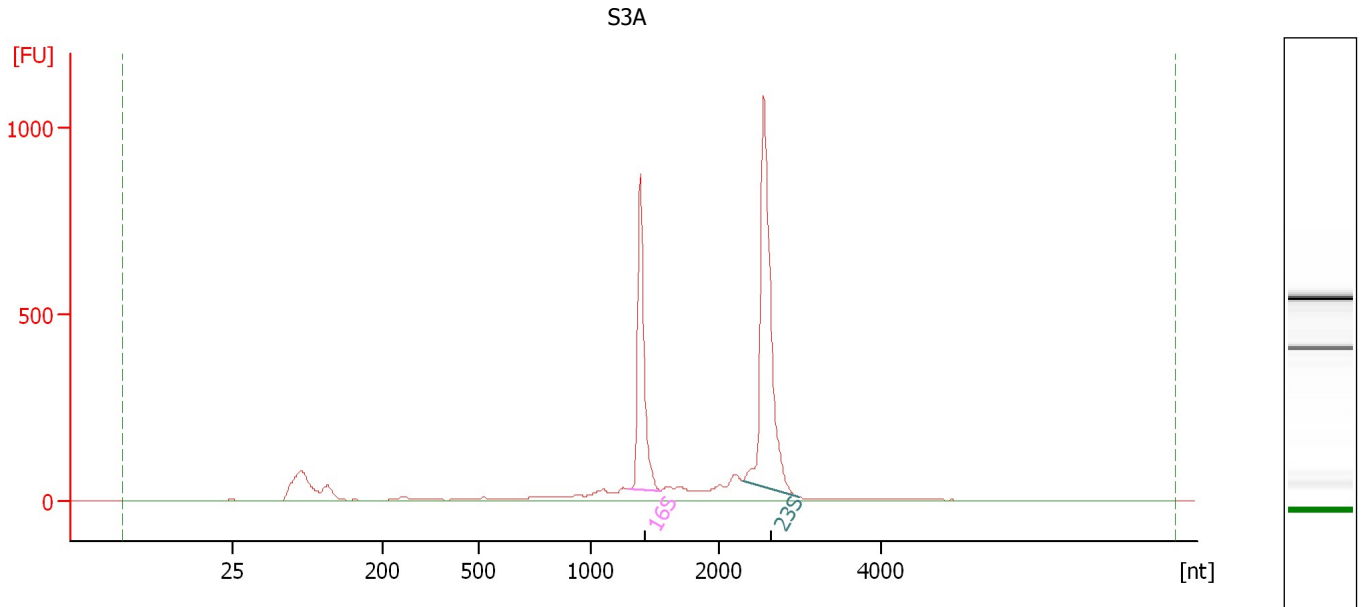
Fragment table for sample 6 : S2B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,308	1,549	329.4	23.4
23S	2,324	3,021	418.8	29.8

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : S3A

RNA Area: 3,266.9 rRNA Ratio [23s / 16s]: 1.7
RNA Concentration: 2,419 ng/μl RNA Integrity Number (RIN): 9.6 (B.02.08)

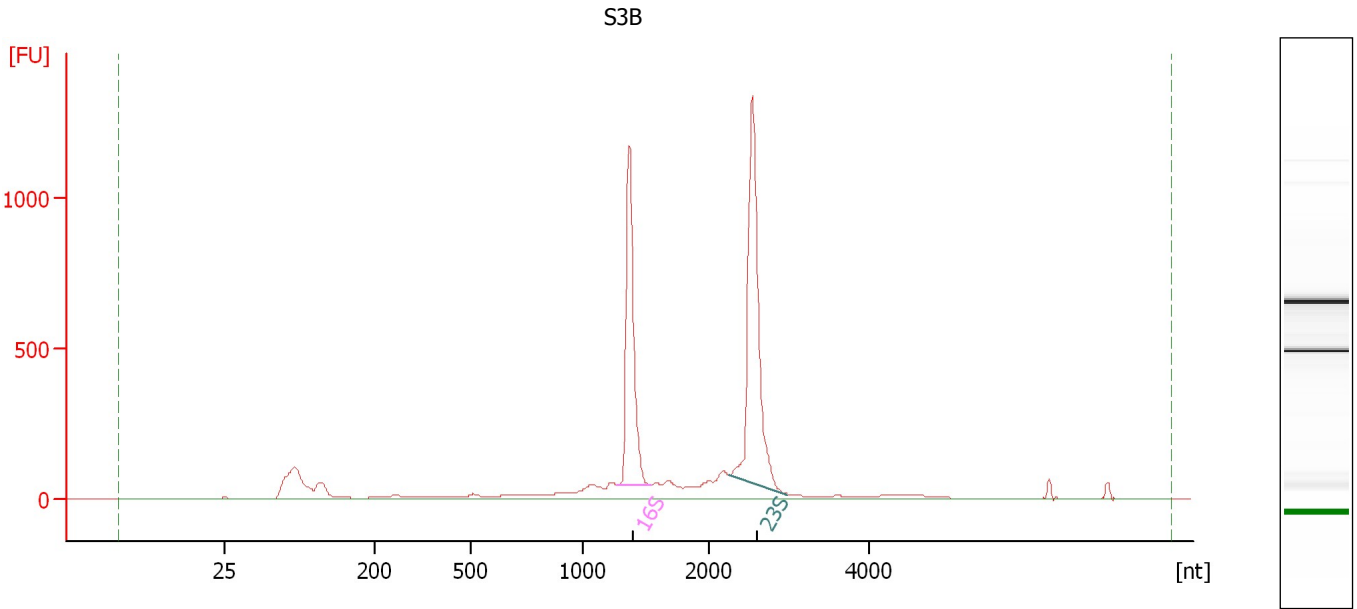
Fragment table for sample 7 : S3A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,300	1,540	695.7	21.3
23S	2,285	2,982	1,160.2	35.5

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : S3B

RNA Area: 4,427.0 rRNA Ratio [23s / 16s]: 1.5
RNA Concentration: 3,278 ng/μl RNA Integrity Number (RIN): 9.4 (B.02.08)

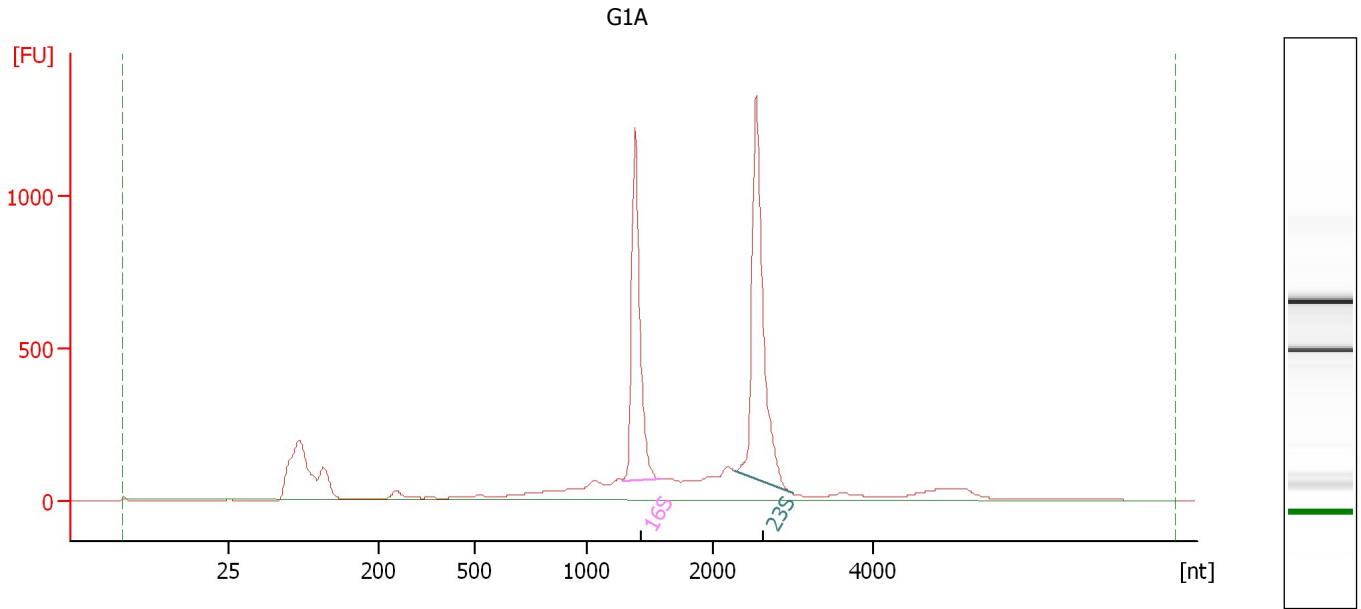
Fragment table for sample 8 : S3B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,277	1,536	986.1	22.3
23S	2,244	2,972	1,443.5	32.6

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : G1A

RNA Area: 5,623.2 rRNA Ratio [23s / 16s]: 1.3
RNA Concentration: 4,163 ng/μl RNA Integrity Number (RIN): 8.9 (B.02.08)

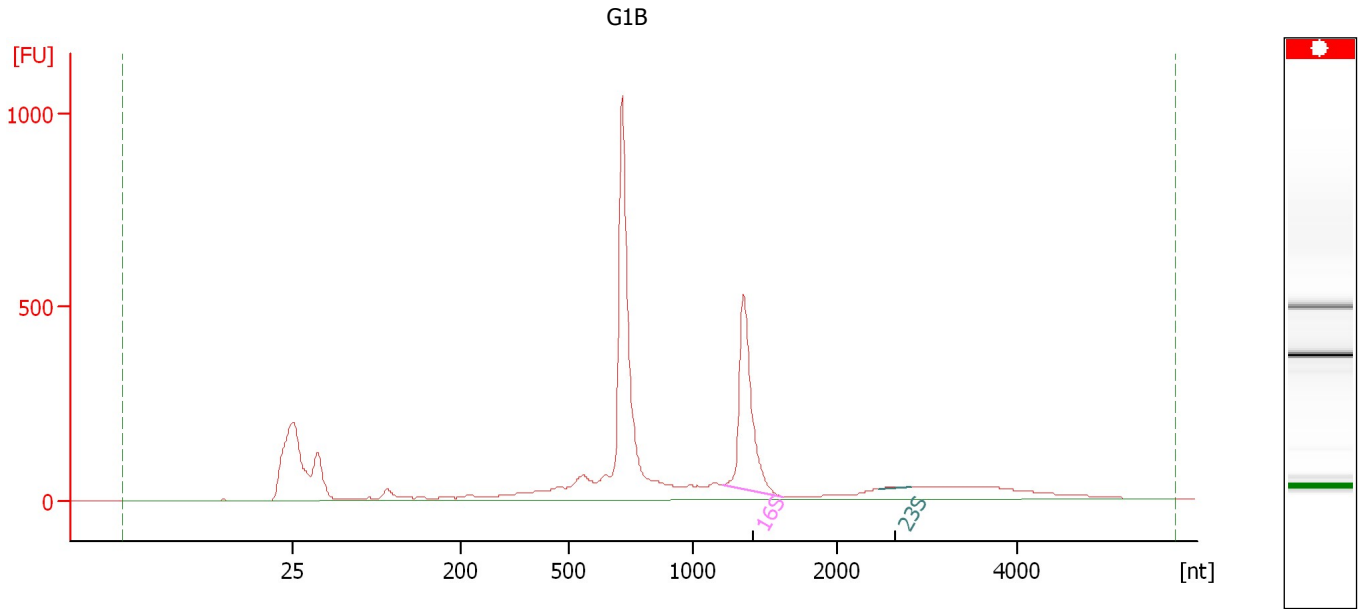
Fragment table for sample 9 : G1A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,285	1,594	1,131.4	20.1
23S	2,271	2,985	1,514.4	26.9

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : G1B

RNA Area: 3,970.8 rRNA Ratio [23s / 16s]: 0.0
RNA Concentration: 2,940 ng/μl RNA Integrity Number (RIN): N/A (B.02.08)

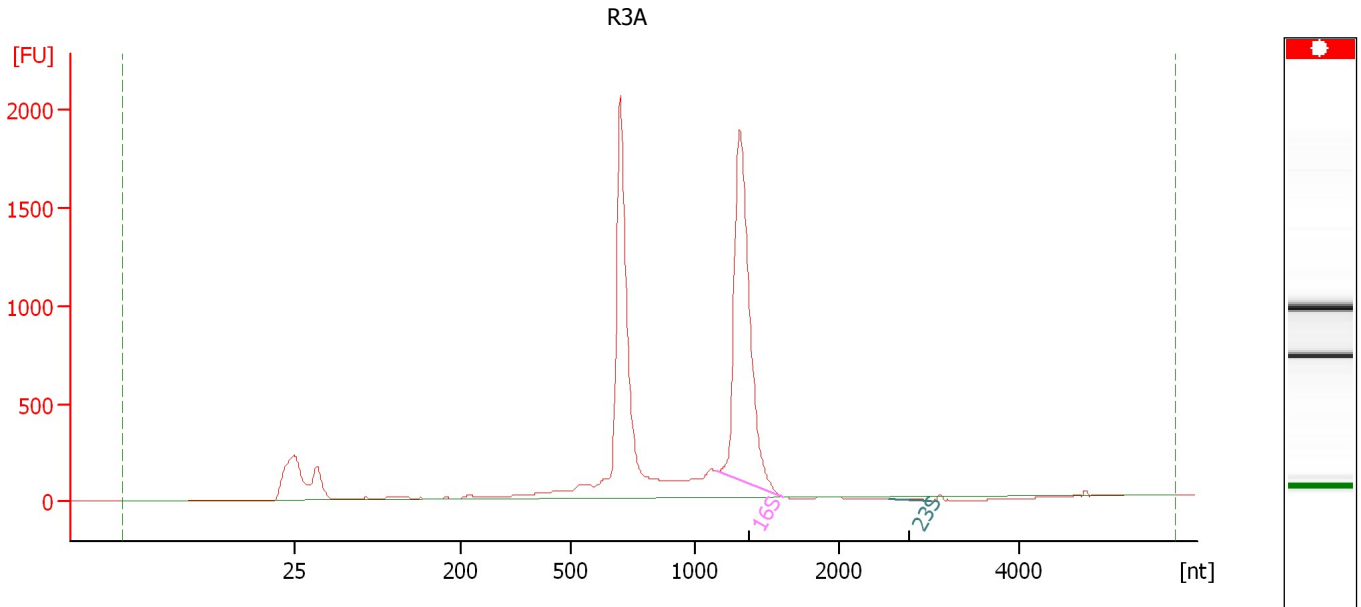
Fragment table for sample 10 : G1B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,209	1,625	697.9	17.6
23S	2,468	2,833	3.8	0.1

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : R3A

RNA Area: 8,128.4 rRNA Ratio [23s / 16s]: 0.0
RNA Concentration: 6,018 ng/μl RNA Integrity Number (RIN): N/A (B.02.08)

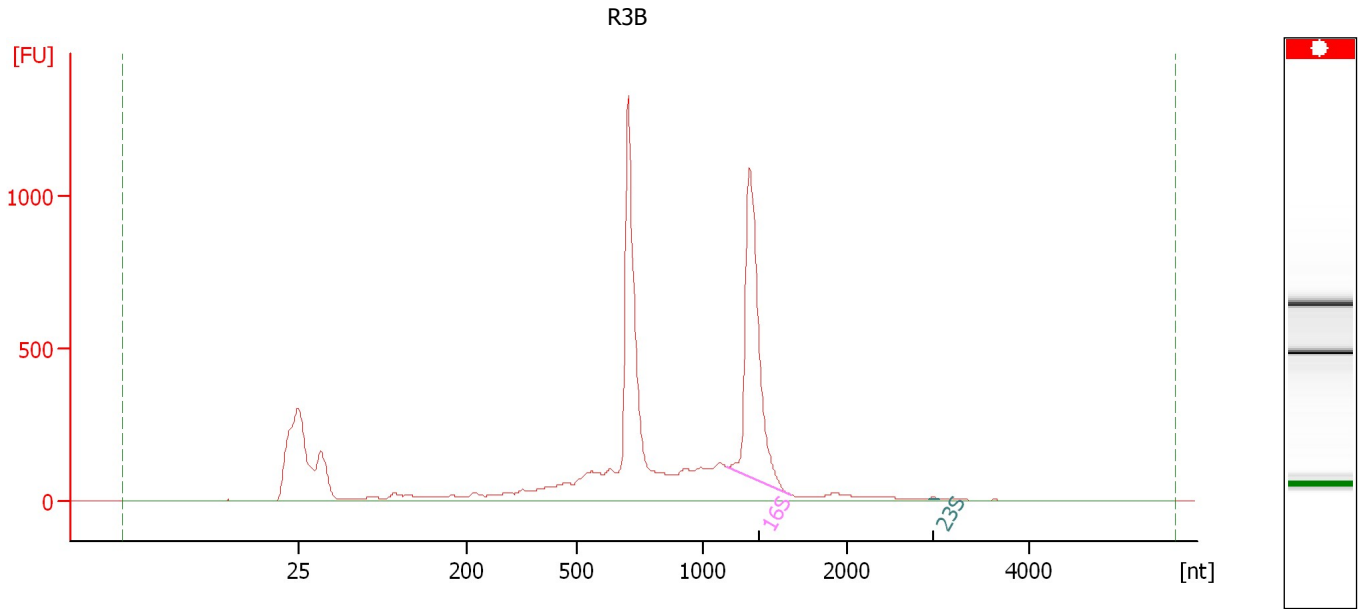
Fragment table for sample 11 : R3A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,151	1,612	3,044.5	37.5
23S	2,562	3,021	1.9	0.0

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : R3B

RNA Area: 5,991.8 rRNA Ratio [23s / 16s]: 0.0
RNA Concentration: 4,436 ng/μl RNA Integrity Number (RIN): N/A (B.02.08)

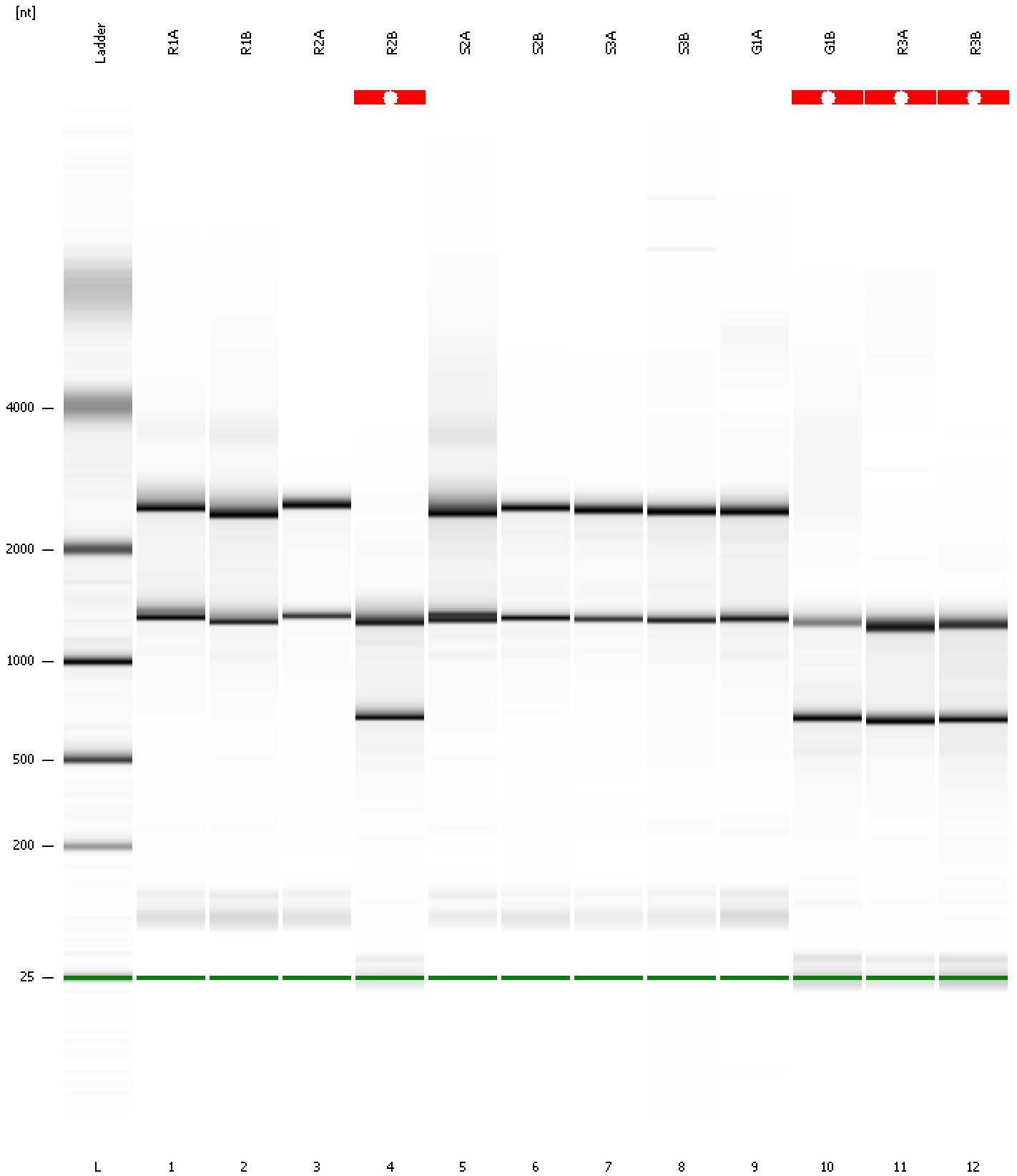
Fragment table for sample 12 : R3B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,174	1,616	1,487.4	24.8
23S	2,911	3,017	2.5	0.0

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
Modified: 8/1/2016 10:48:47 AM

Gel Image



Assay Class: Prokaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-01\2016-08-01_002.xad

Created: 8/1/2016 10:25:44 AM
 Modified: 8/1/2016 10:48:47 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 10:48:47 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_002.xad)		Instrument	Run		8/1/2016 10:25:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/1/2016 10:25:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/1/2016 10:25:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/1/2016 10:25:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/1/2016 10:25:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/1/2016 10:25:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/1/2016 10:25:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1