

Assay Class: Prokaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_004.xad

Created: 10/20/2015 5:20:33 PM
Modified: 10/20/2015 5:44:03 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

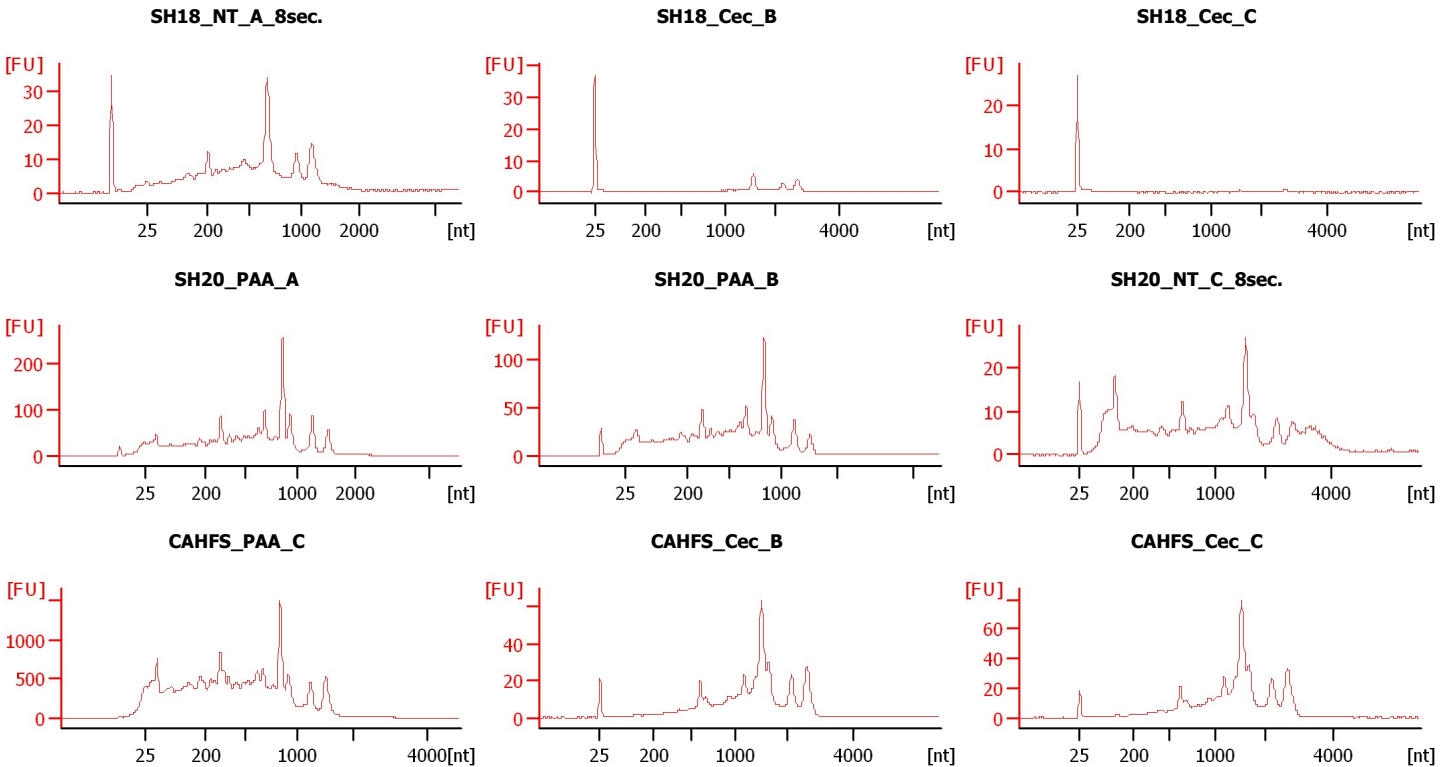
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Prokaryote Total RNA Pico Series II.xsy

Assay Class: Prokaryote Total RNA Pico
Version: 2.5
Assay Comments: Total RNA Analysis pg sensitivity (Prokaryote)

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Chip Information:

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



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
SH18_NT_A_8sec.		✓		
SH18_Cec_B		✓		
SH18_Cec_C		✓		
SH20_PAA_A		✓		
SH20_PAA_B		✓		
SH20_NT_C_8sec.		✓		
CAHFS_PAA_C		✓		
CAHFS_Cec_B		✓		
CAHFS_Cec_C		✓		
Sample 10				
Sample 11				
Ladder		✓		

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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ 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

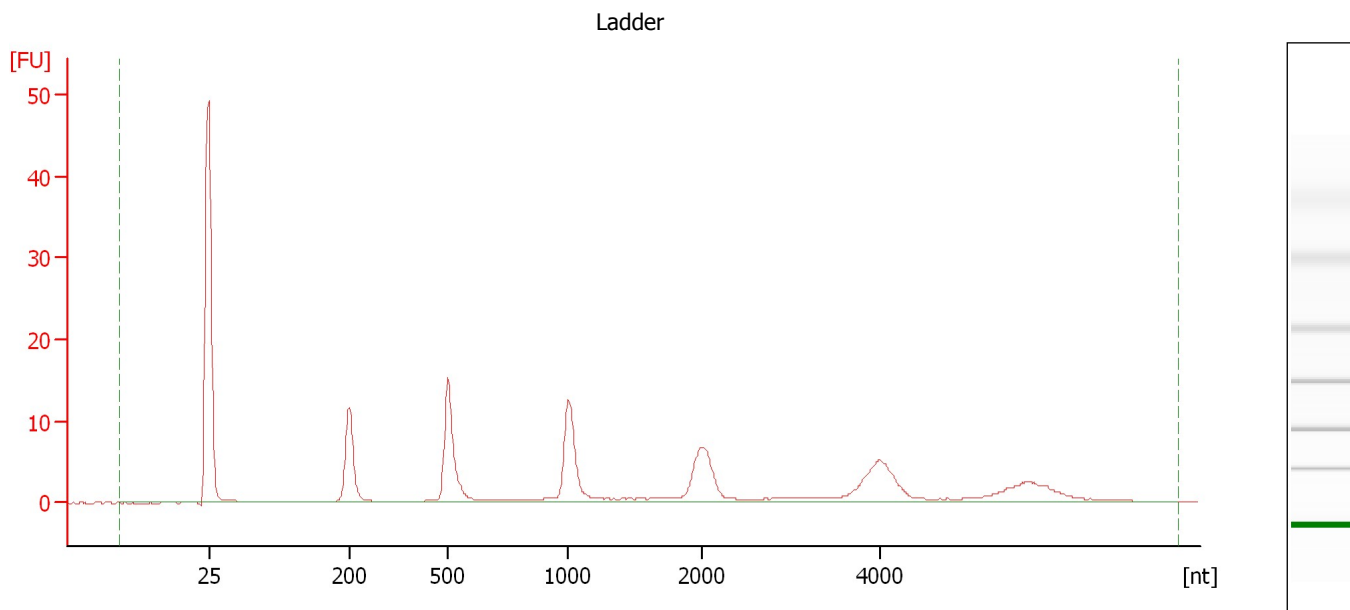
Ladder

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

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Electropherogram Summary



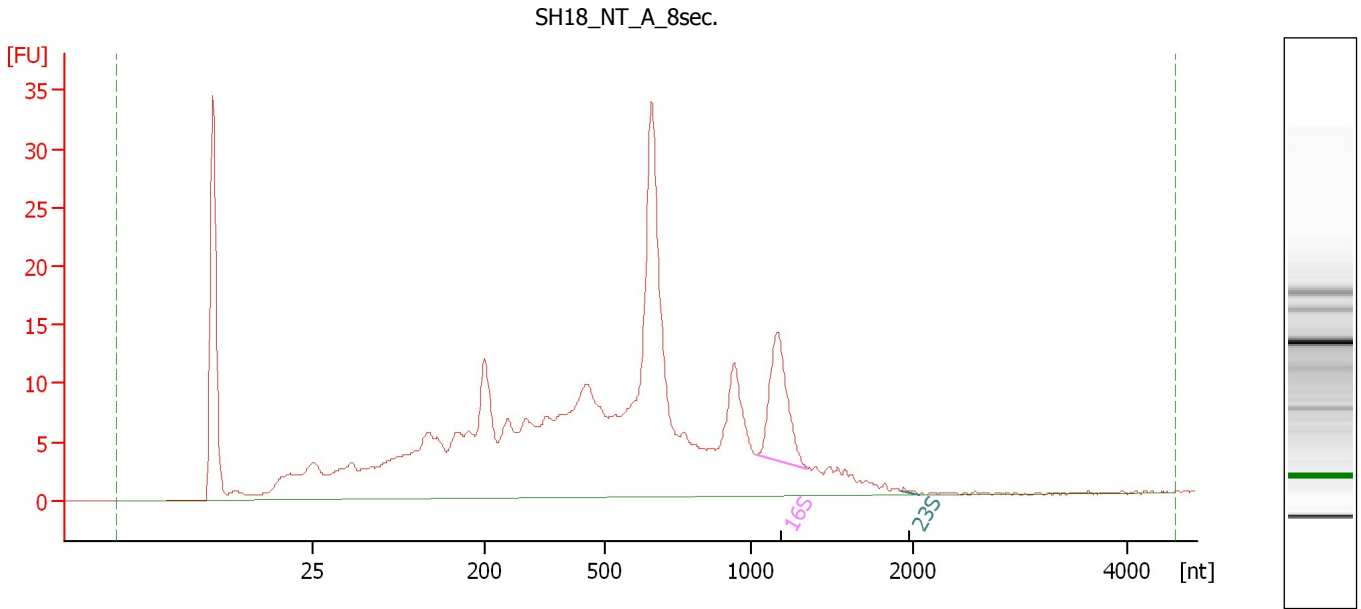
Overall Results for Ladder

RNA Area: 117.0 RNA Concentration: 1,000 pg/μl

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Electropherogram Summary Continued ...



Overall Results for sample 1 : SH18 NT A 8sec.

RNA Area: 424.2 rRNA Ratio [23s / 16s]: 0.0
RNA Concentration: 3,626 pg/μl RNA Integrity Number (RIN): 3.4 (B.02.08)

Fragment table for sample 1 : SH18 NT A 8sec.

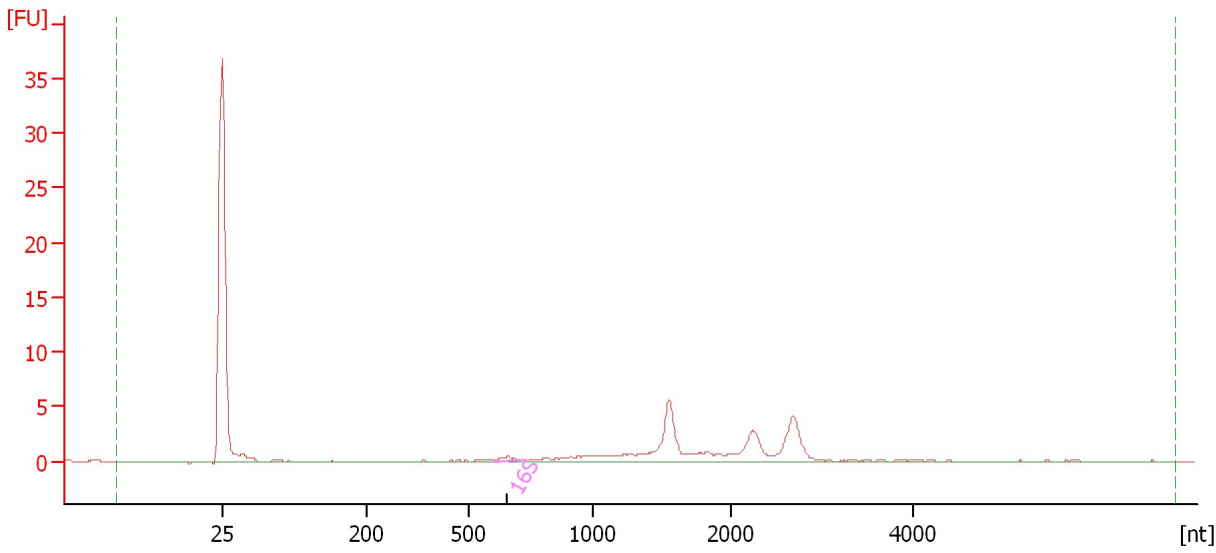
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,033	1,349	20.6	4.9
23S	1,923	2,063	0.3	0.1

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Electropherogram Summary Continued ...

SH18_Cec_B



Overall Results for sample 2 : SH18_Cec_B

RNA Area: 36.6 rRNA Ratio [23s / 16s]: 0.0
RNA Concentration: 313 pg/μl RNA Integrity Number (RIN): 3 (B.02.08)

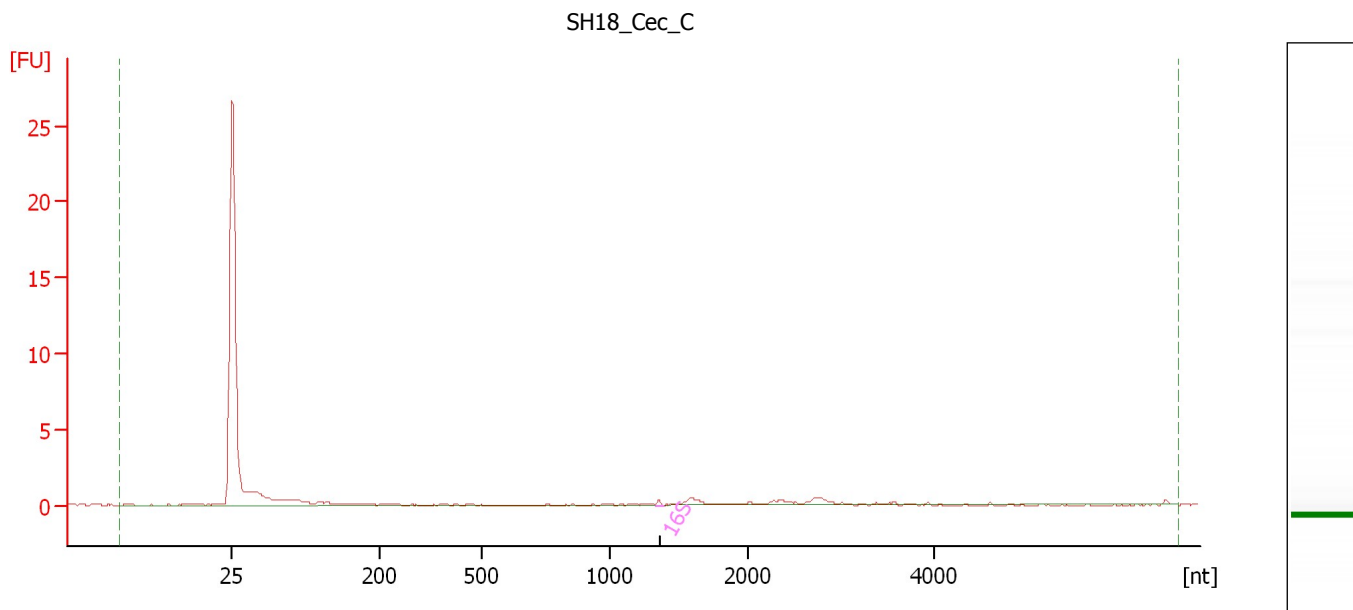
Fragment table for sample 2 : SH18_Cec_B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	606	705	0.5	1.5

Assay Class: Prokaryote Total RNA Pico
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Electropherogram Summary Continued ...



Overall Results for sample 3 : SH18_Cec_C

RNA Area: 10.9 rRNA Ratio [23s / 16s]: 0.0
 RNA Concentration: 93 pg/μl RNA Integrity Number (RIN): 2.2 (B.02.08)

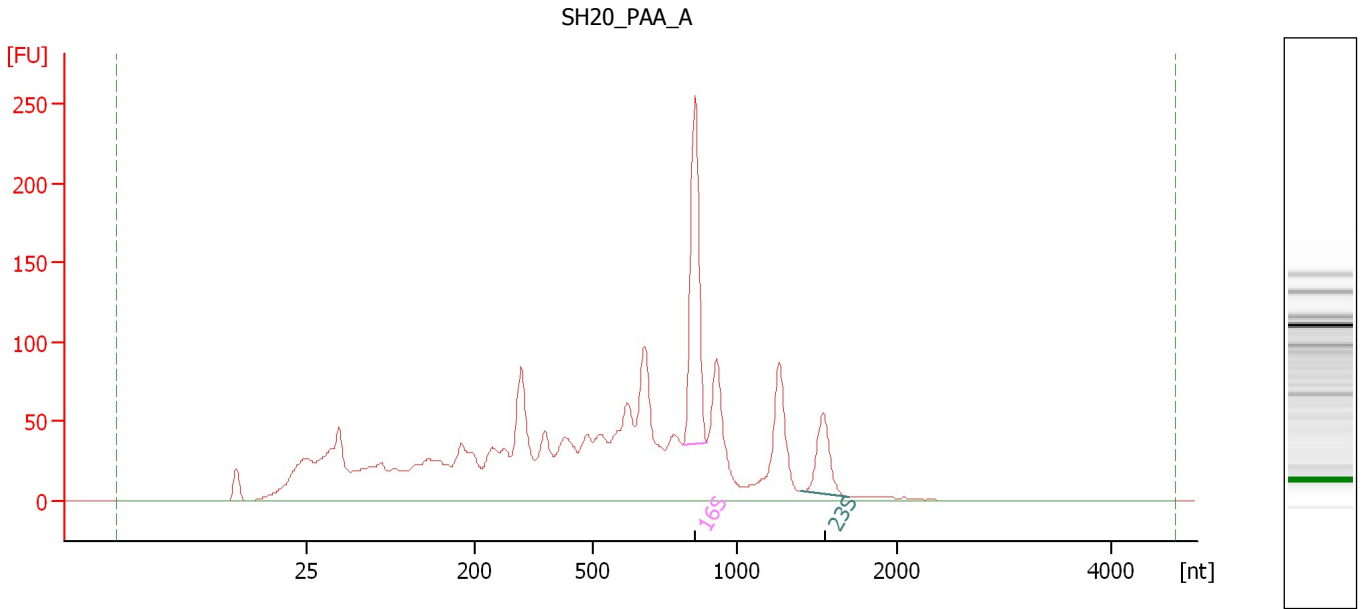
Fragment table for sample 3 : SH18_Cec_C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,331	1,392	0.2	1.4

Assay Class: Prokaryote Total RNA Pico
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Electropherogram Summary Continued ...



Overall Results for sample 4 : SH20_PAA_A

RNA Area: 2,248.4 rRNA Ratio [23s / 16s]: 0.3
RNA Concentration: 19,222 pg/µl RNA Integrity Number (RIN): 5.4 (B.02.08)

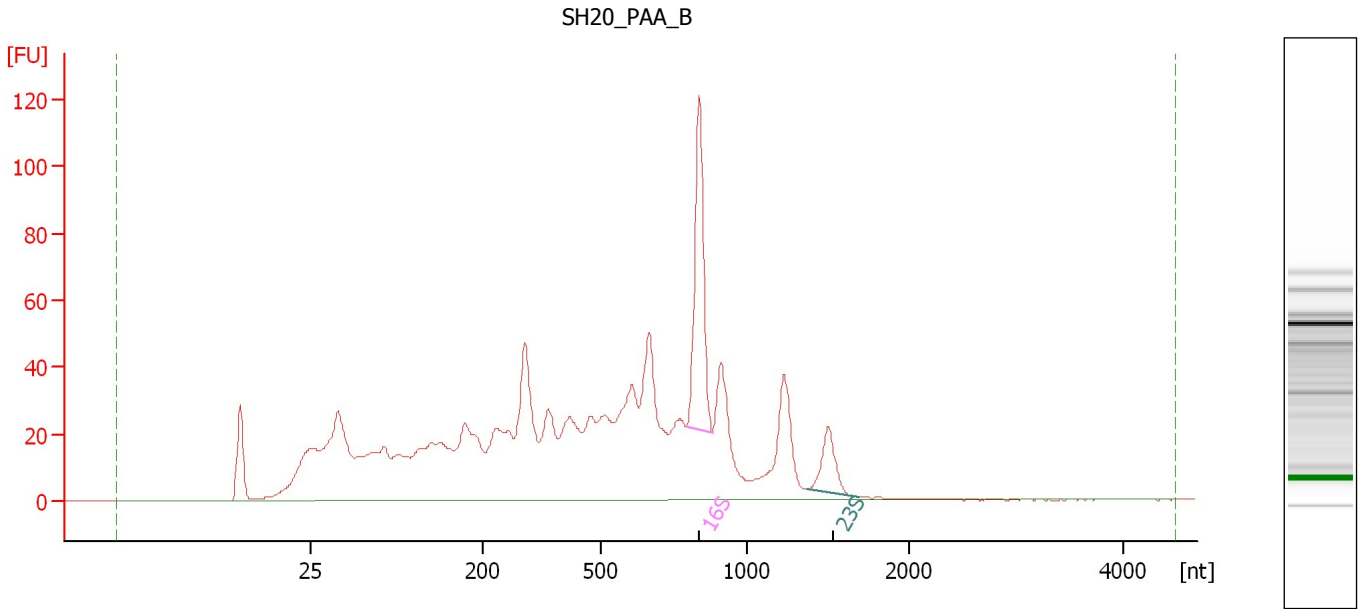
Fragment table for sample 4 : SH20_PAA_A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	808	893	212.9	9.5
23S	1,400	1,694	67.2	3.0

Assay Class: Prokaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : SH20_PAA_B

RNA Area: 1,331.1 rRNA Ratio [23s / 16s]: 0.3
RNA Concentration: 11,380 pg/μl RNA Integrity Number (RIN): 5 (B.02.08)

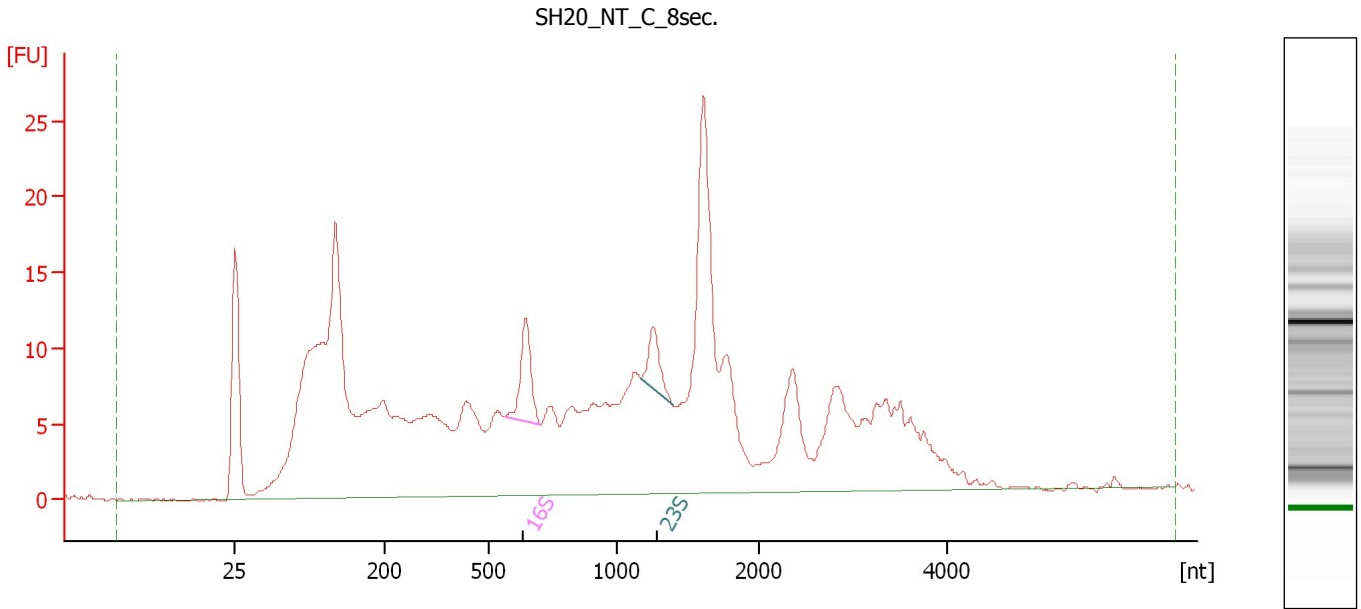
Fragment table for sample 5 : SH20_PAA_B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	793	880	102.0	7.7
23S	1,373	1,697	26.2	2.0

Assay Class: Prokaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : SH20_NT_C_8sec.

RNA Area: 488.2 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 4,173 pg/μl RNA Integrity Number (RIN): 3 (B.02.08)

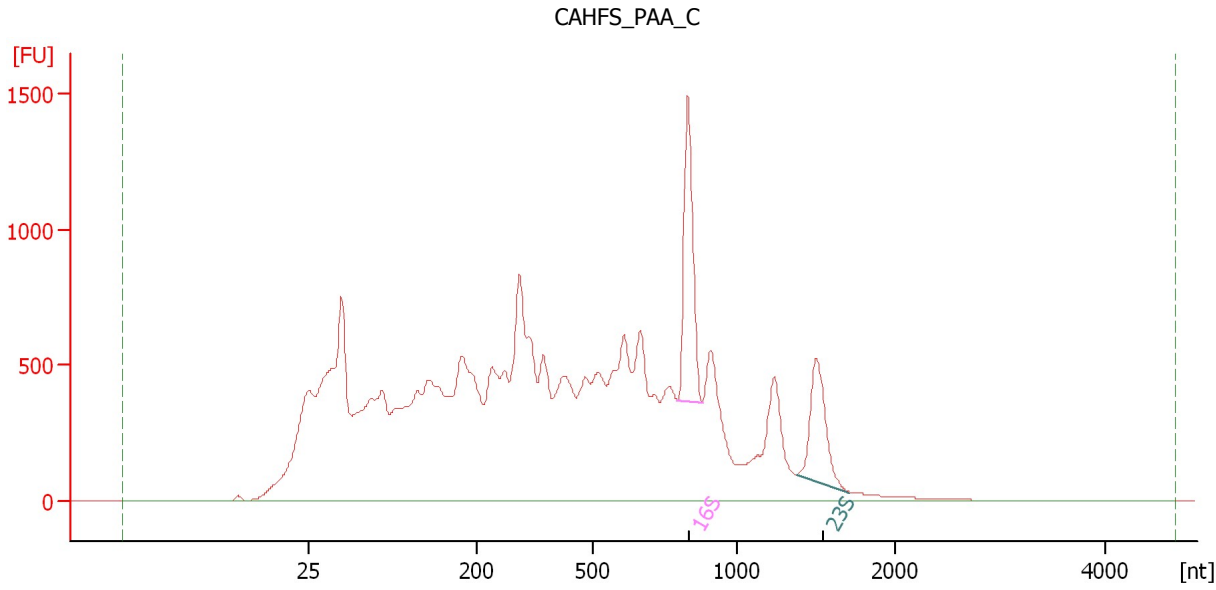
Fragment table for sample 6 : SH20_NT_C_8sec.

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	561	699	9.9	2.0
23S	1,174	1,393	5.6	1.1

Assay Class: Prokaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : CAHFS_PAA_C

RNA Area: 26,373.7 RNA Integrity Number (RIN): 4.3 (B.02.08,
RNA Concentration: 225,471 pg/μl Anomaly Threshold(s)
rRNA Ratio [23s / 16s]: 0.6 manually adapted)

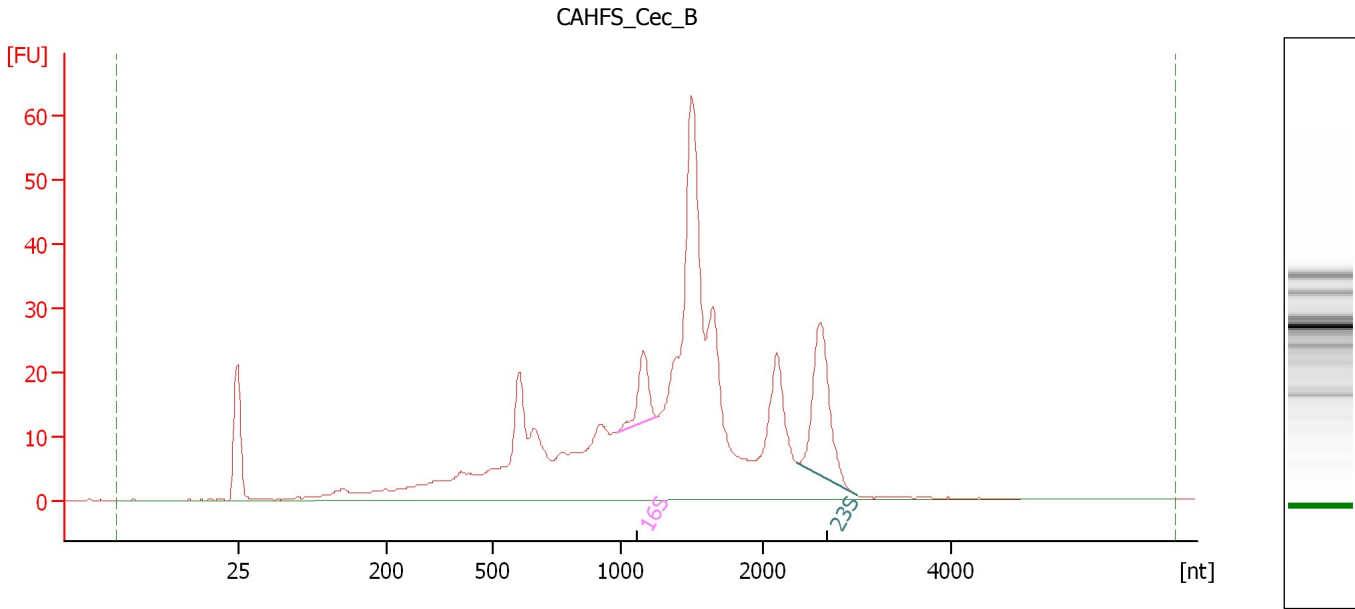
Fragment table for sample 7 : CAHFS_PAA_C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	794	879	1,145.9	4.3
23S	1,378	1,712	710.4	2.7

Assay Class: Prokaryote Total RNA Pico
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Electropherogram Summary Continued ...



Overall Results for sample 8 : CAHFS_Cec_B

RNA Area: 573.6 rRNA Ratio [23s / 16s]: 2.9
RNA Concentration: 4,904 pg/μl RNA Integrity Number (RIN): 3.7 (B.02.08)

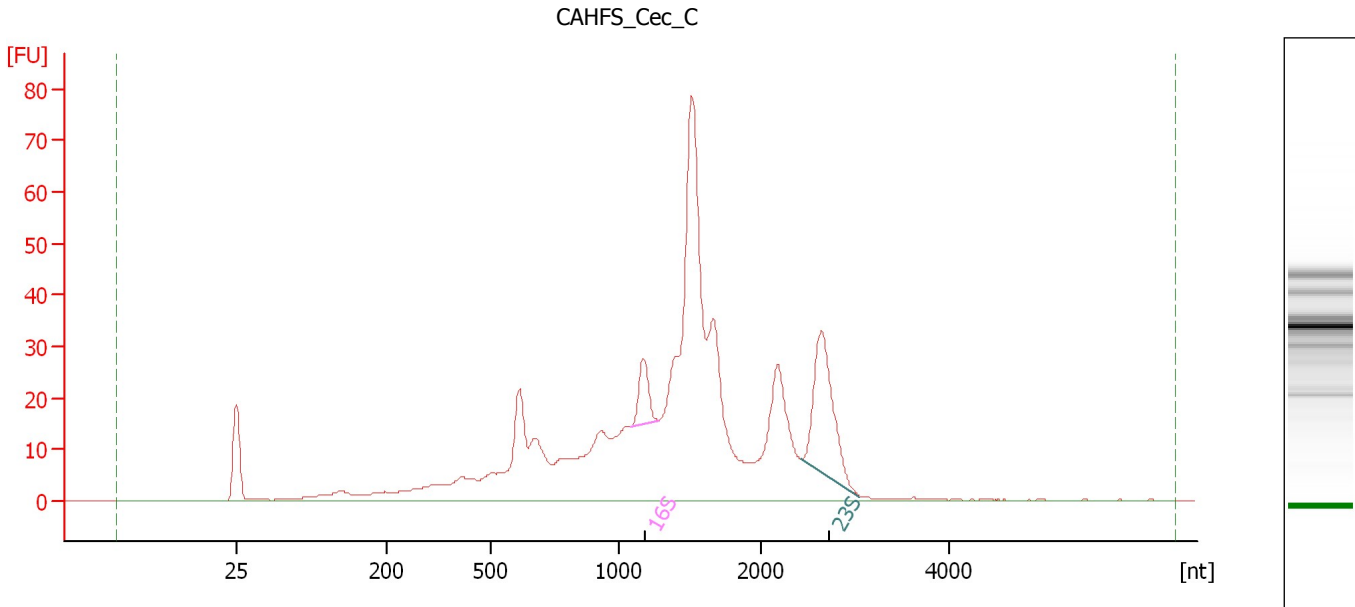
Fragment table for sample 8 : CAHFS_Cec_B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	985	1,252	14.3	2.5
23S	2,370	2,993	41.0	7.2

Assay Class: Prokaryote Total RNA Pico
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Electropherogram Summary Continued ...



Overall Results for sample 9 : CAHFS_Cec_C

RNA Area: 701.7 rRNA Ratio [23s / 16s]: 3.7
RNA Concentration: 5,999 pg/μl RNA Integrity Number (RIN): 3.6 (B.02.08)

Fragment table for sample 9 : CAHFS_Cec_C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,085	1,281	14.6	2.1
23S	2,439	3,052	53.6	7.6

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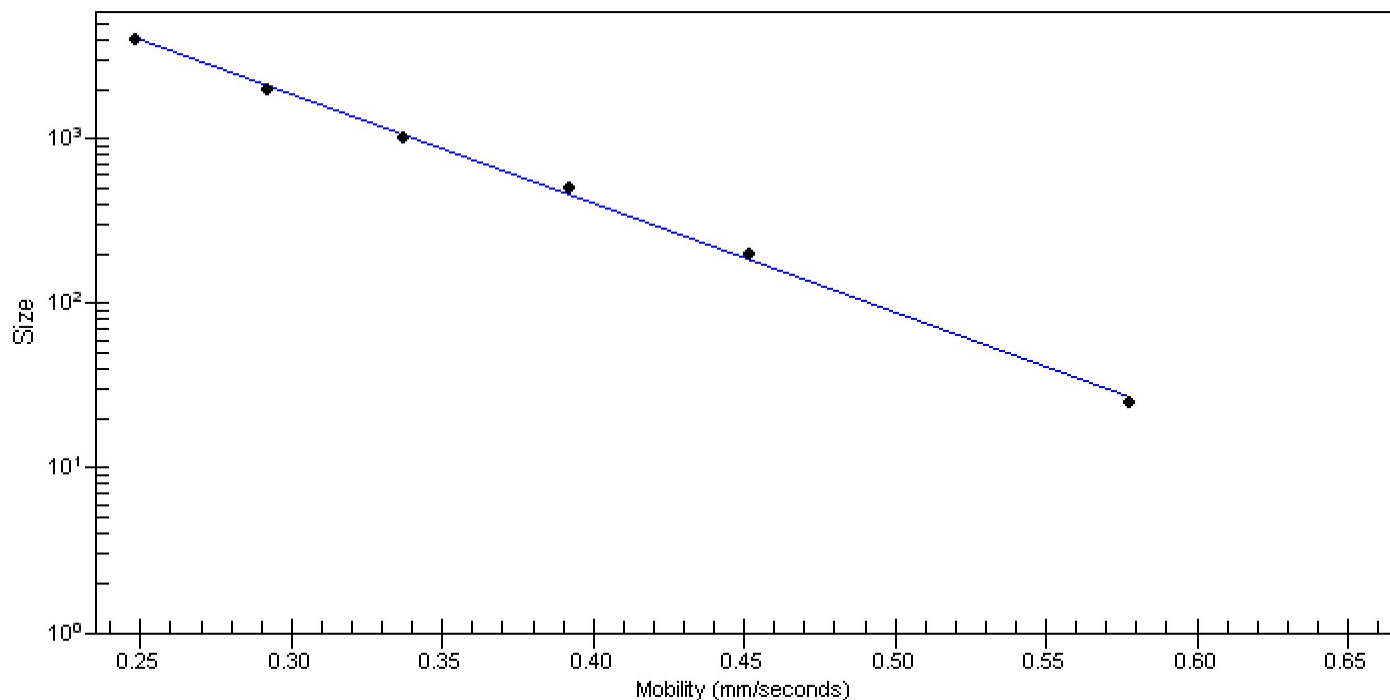
Gel Image

Assay Class: Prokaryote Total RNA Pico
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Curves

Standard Curve



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Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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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: 10)		Instrument	Run		10/20/2015 5:40:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-20\2015-10-20_004.xad)		Instrument	Run		10/20/2015 5:20:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/20/2015 5:20:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/20/2015 5:20:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/20/2015 5:20:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/20/2015 5:20:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/20/2015 5:20:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/20/2015 5:20:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1