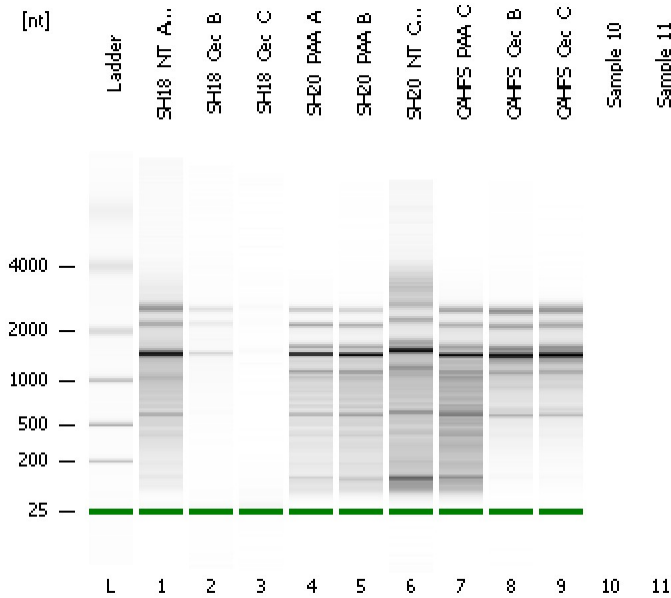


Assay Class: Prokaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_004.xad

Created: 10/20/2015 5:20:33 PM
Modified: 10/20/2015 5:47:20 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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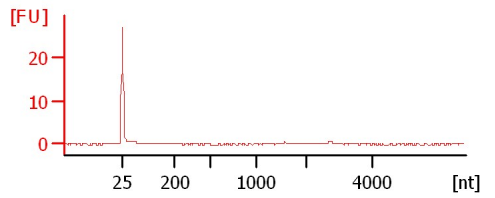
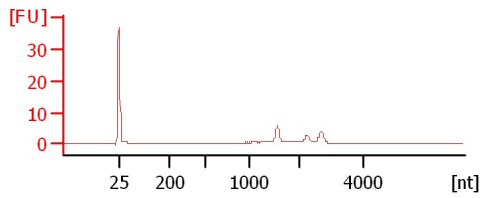
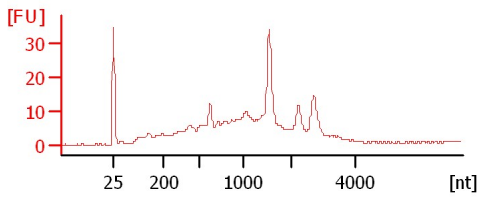
Chip Information:

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

SH18_NT_A_8sec.

SH18_Cec_B

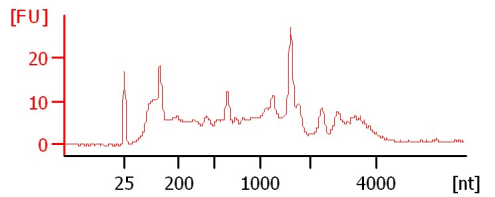
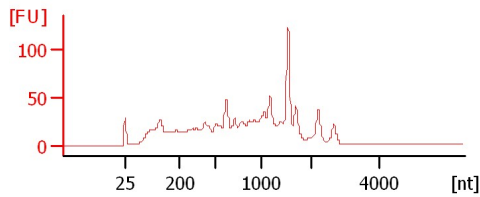
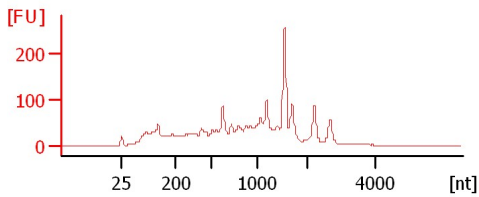
SH18_Cec_C



SH20_PAA_A

SH20_PAA_B

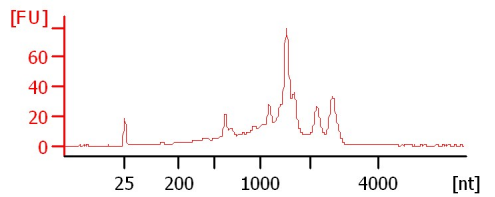
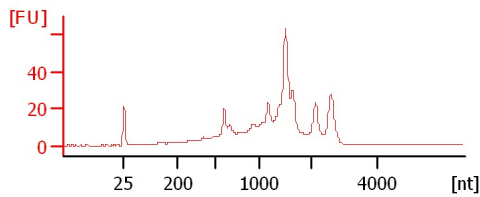
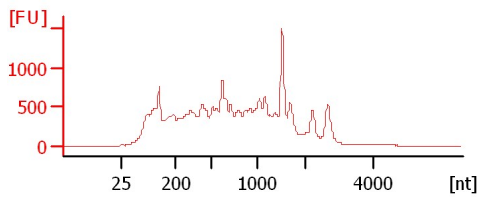
SH20_NT_C_8sec.



CAHFS_PAA_C

CAHFS_Cec_B

CAHFS_Cec_C



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 5:47:20 PM

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 :**

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 5:47:20 PM

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/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 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

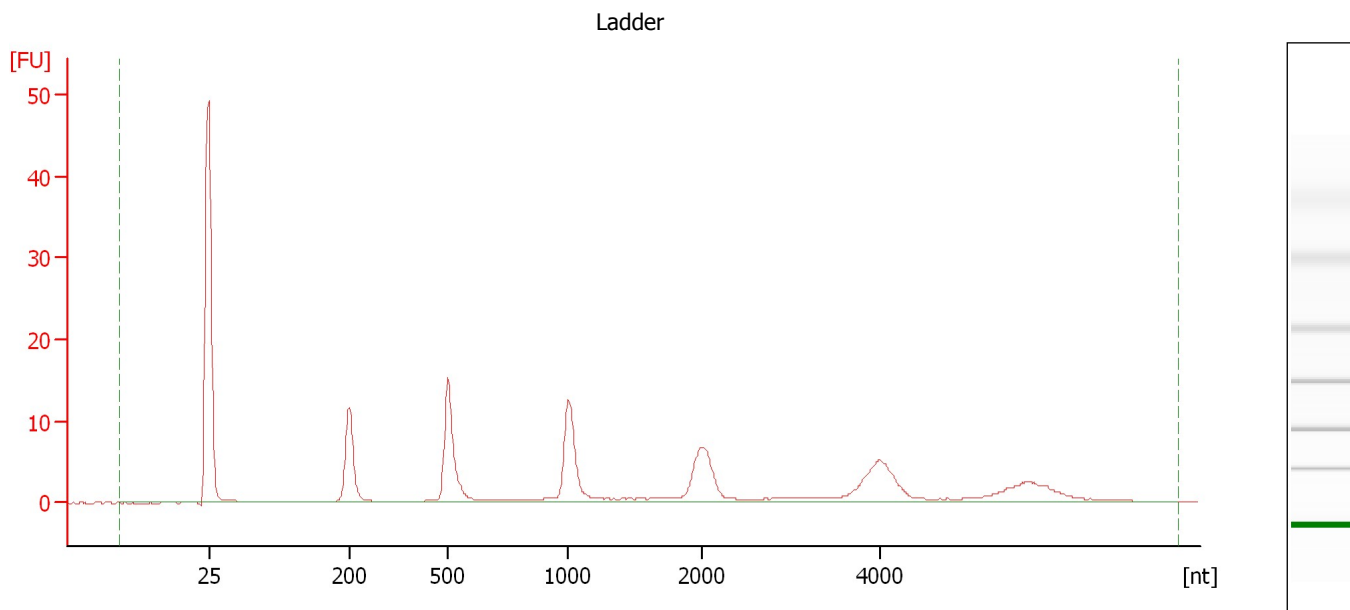
Ladder

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

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 5:47:20 PM

Electropherogram Summary



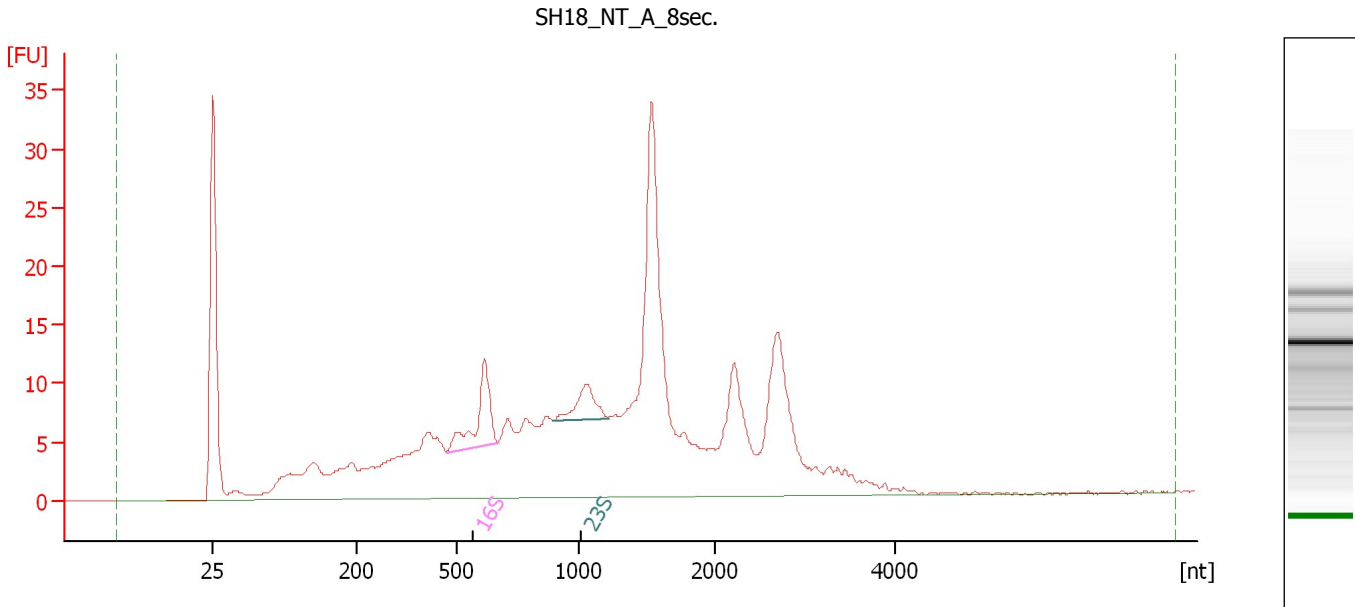
Overall Results for Ladder

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

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 5:47:20 PM

Electropherogram Summary Continued ...



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

RNA Area: 394.4 rRNA Ratio [23s / 16s]: 0.5
RNA Concentration: 3,372 pg/μl RNA Integrity Number (RIN): 3.4 (B.02.08)

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

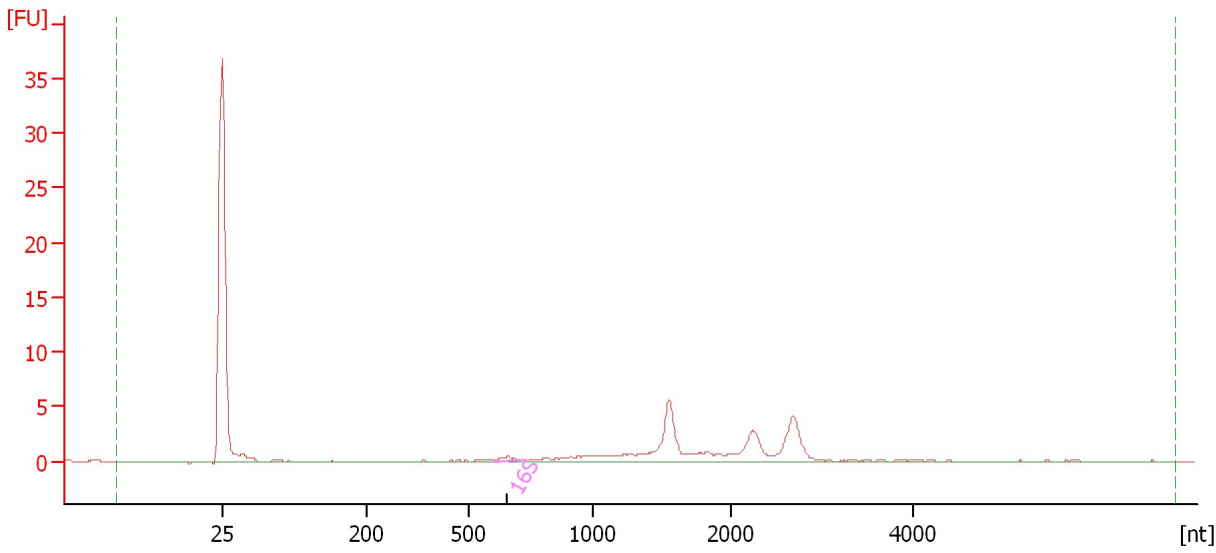
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	470	673	13.7	3.5
23S	895	1,220	7.2	1.8

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 5:47:20 PM

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

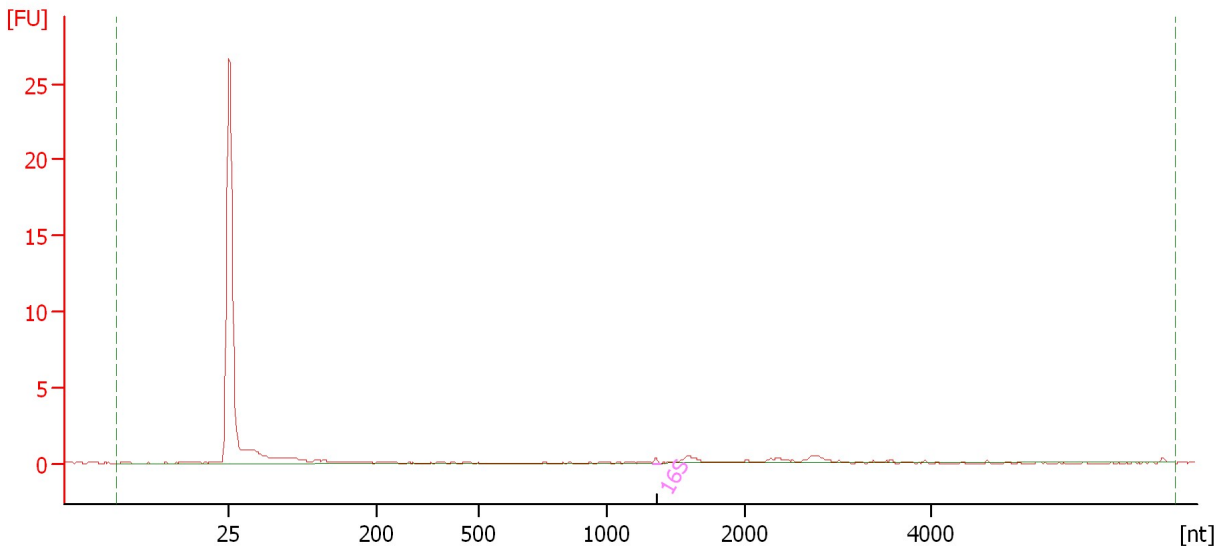
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	606	705	0.5	1.5

Assay Class: Prokaryote Total RNA Pico
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 5:47:20 PM

Electropherogram Summary Continued ...

SH18_Cec_C



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)

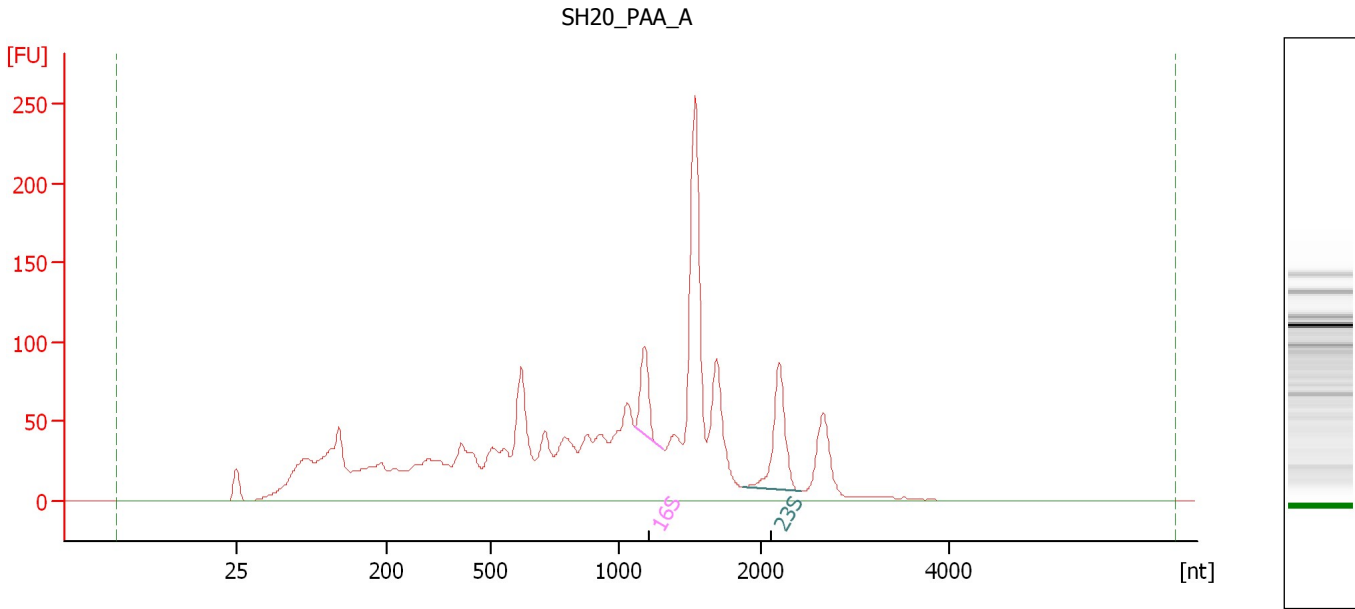
Fragment table for sample 3 : SH18_Cec_C

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
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 5:47:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SH20_PAA_A

RNA Area: 2,352.5 rRNA Ratio [23s / 16s]: 1.9
RNA Concentration: 20,112 pg/μl RNA Integrity Number (RIN): 5.4 (B.02.08)

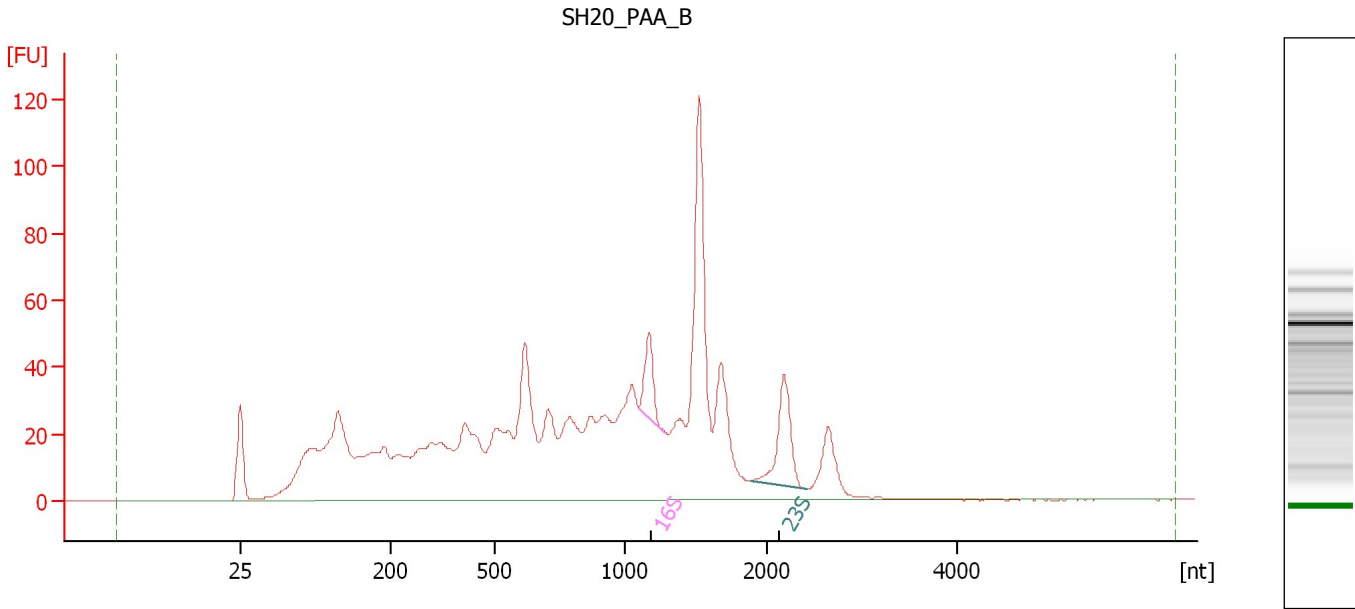
Fragment table for sample 4 : SH20_PAA_A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,108	1,311	53.5	2.3
23S	1,869	2,427	102.6	4.4

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 5:47:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SH20_PAA_B

RNA Area: 1,363.6 rRNA Ratio [23s / 16s]: 1.7
RNA Concentration: 11,657 pg/μl RNA Integrity Number (RIN): 5 (B.02.08)

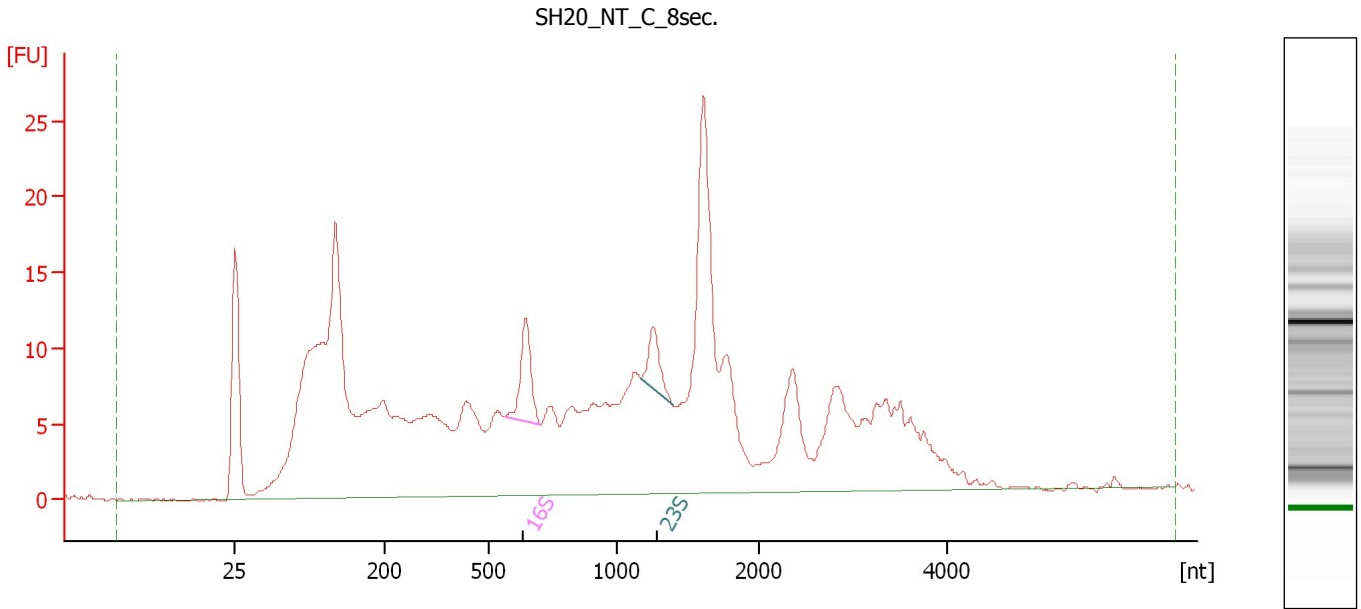
Fragment table for sample 5 : SH20_PAA_B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,098	1,286	25.7	1.9
23S	1,885	2,414	44.7	3.3

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 5:47:20 PM

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)

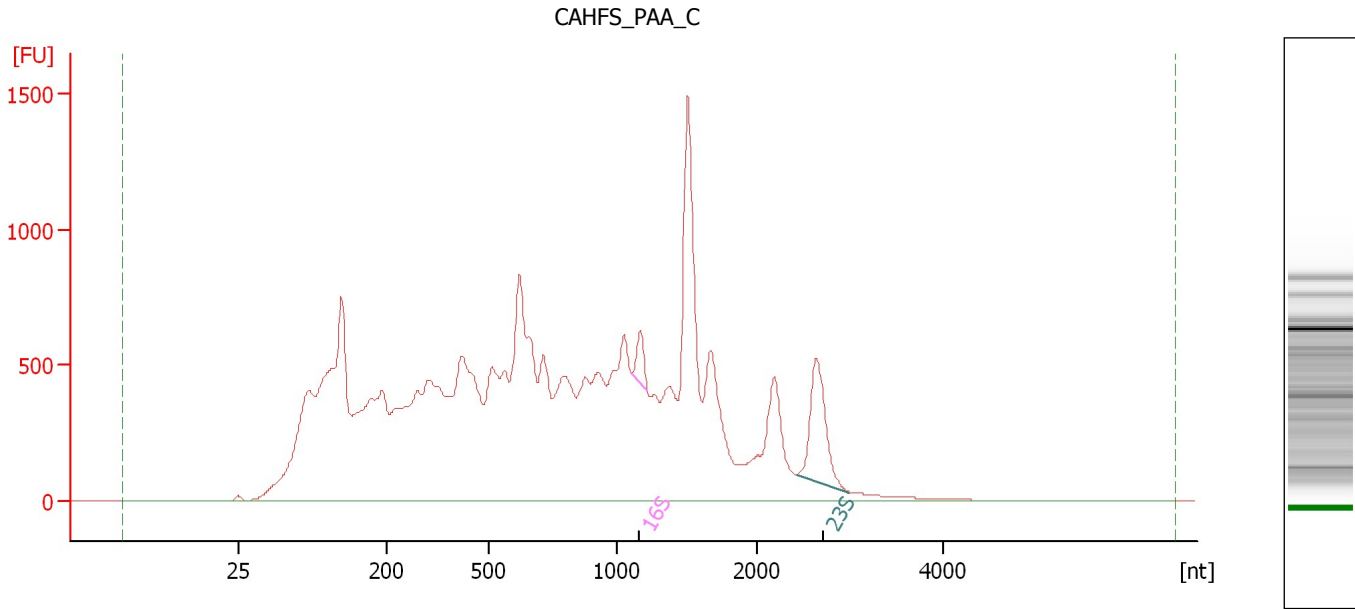
Fragment table for sample 6 : SH20_NT_C_8sec.

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

Created: 10/20/2015 5:20:33 PM
Modified: 10/20/2015 5:47:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CAHFS_PAA_C

RNA Area: 28,019.6 RNA Integrity Number (RIN): 4.3 (B.02.08,
RNA Concentration: 239,543 pg/μl Anomaly Threshold(s)
rRNA Ratio [23s / 16s]: 4.1 manually adapted)

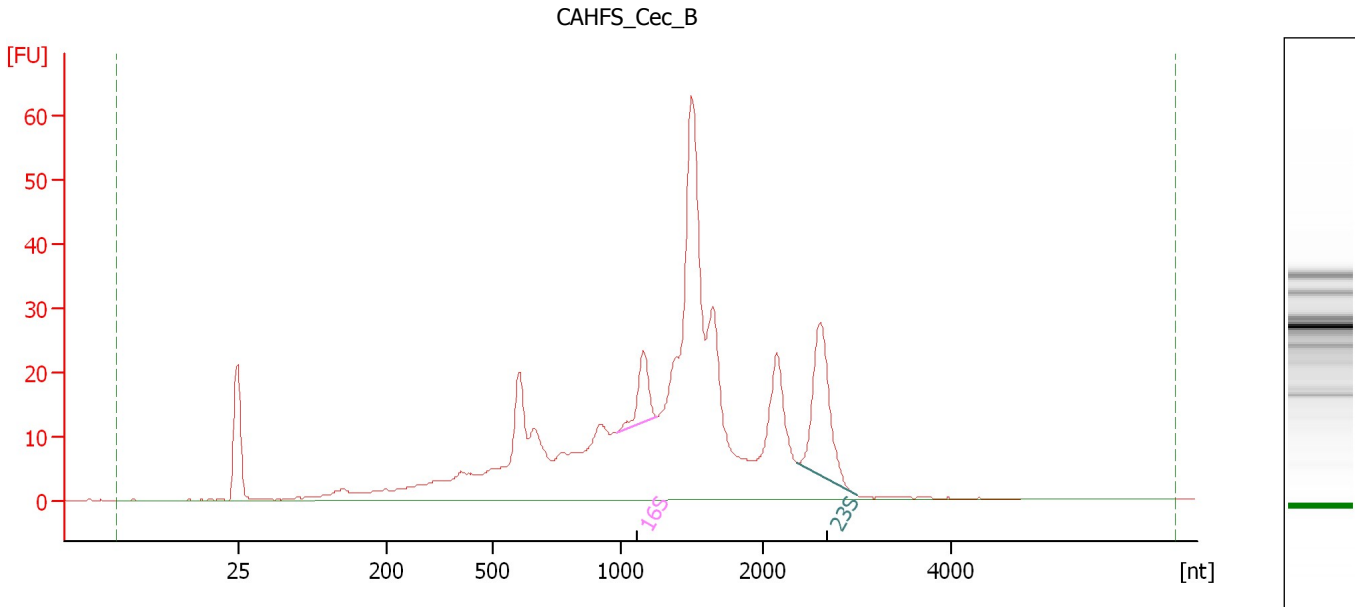
Fragment table for sample 7 : CAHFS_PAA_C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,109	1,223	171.6	0.6
23S	2,429	3,000	710.4	2.5

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 5:47:20 PM

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)

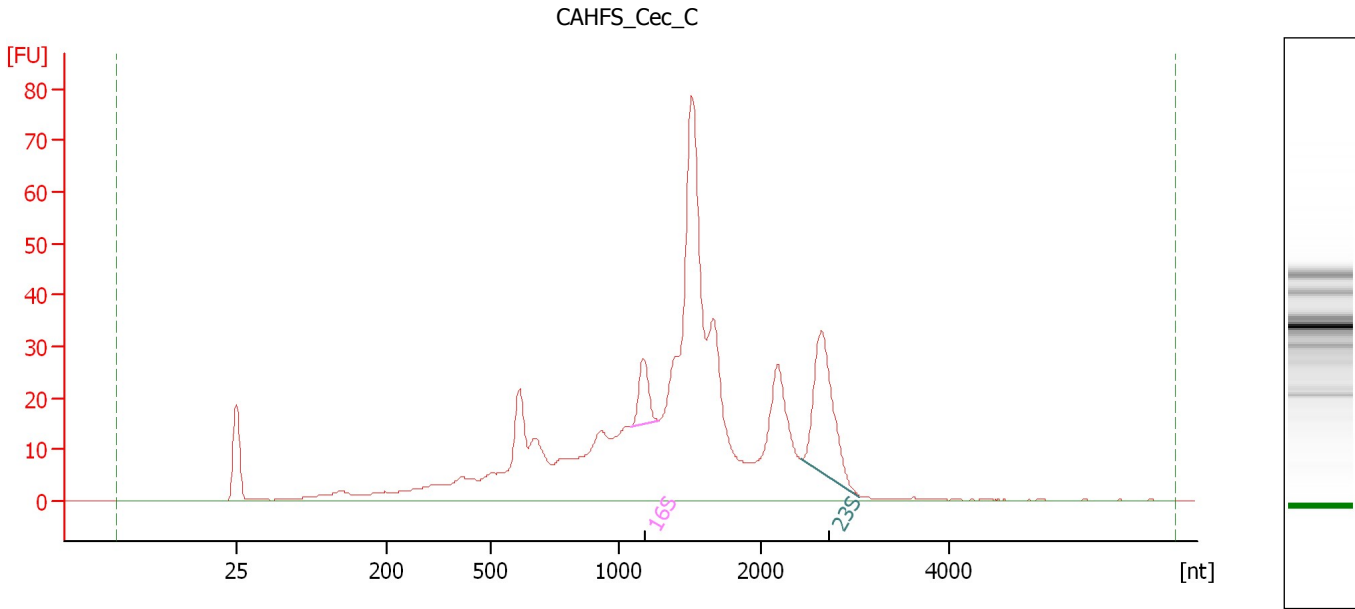
Fragment table for sample 8 : CAHFS_Cec_B

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
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 5:47:20 PM

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)

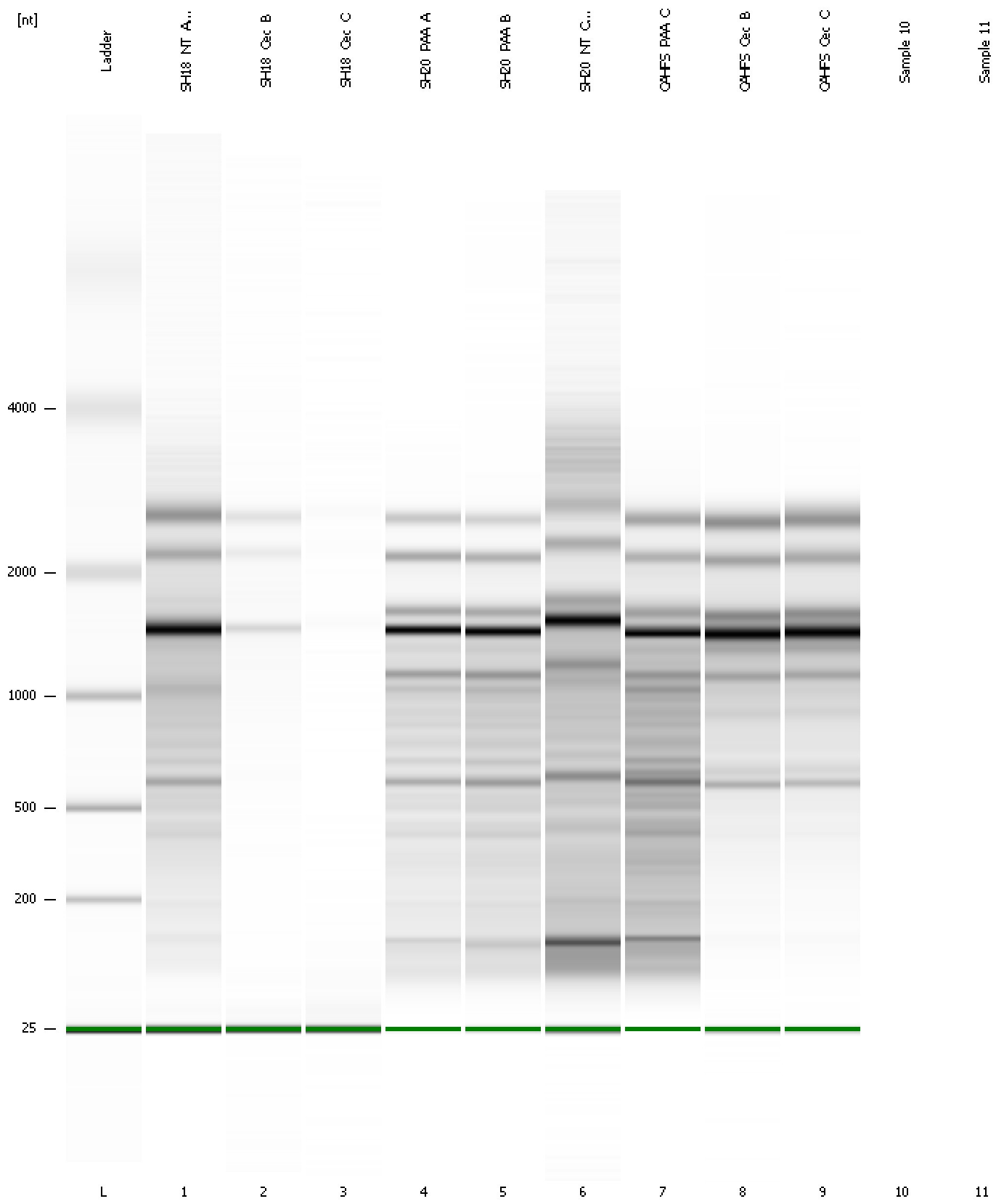
Fragment table for sample 9 : CAHFS_Cec_C

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

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 5:47:20 PM

Gel Image

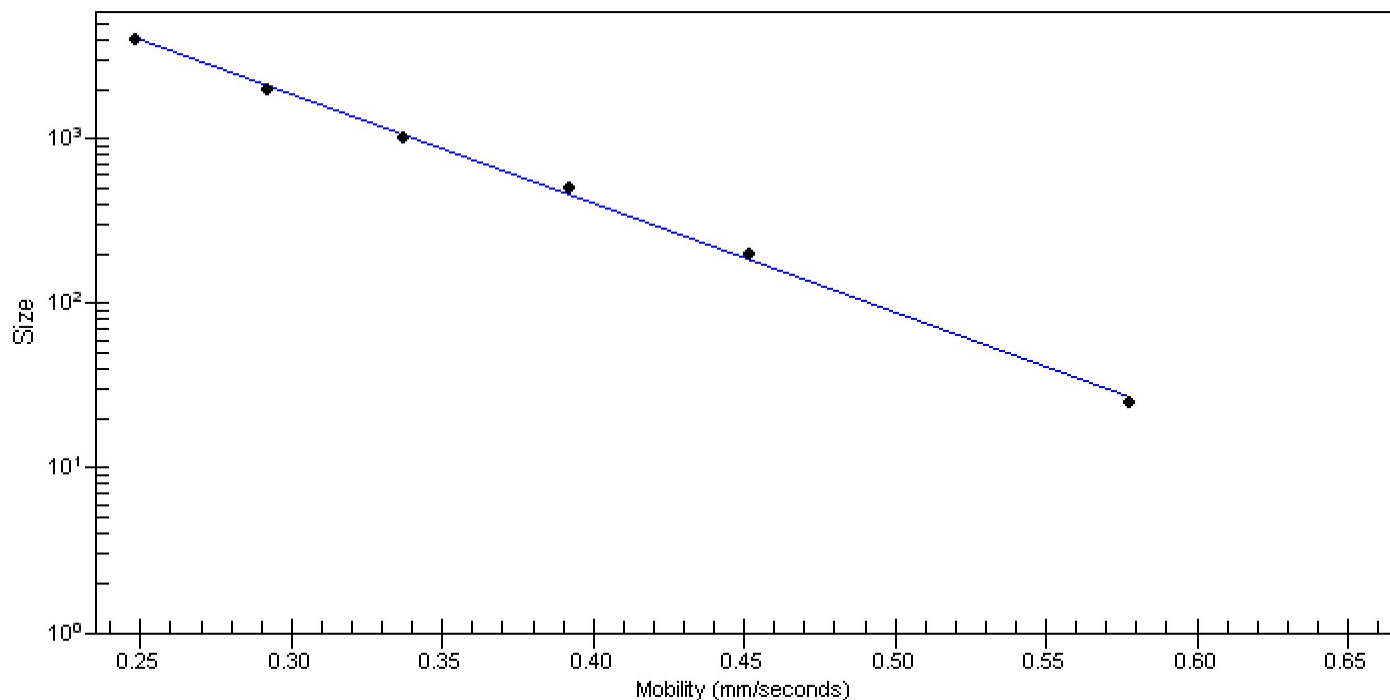


Assay Class: Prokaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_004.xad

Created: 10/20/2015 5:20:33 PM
Modified: 10/20/2015 5:47:20 PM

Curves

Standard Curve



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 5:47:20 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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 5:47:20 PM

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