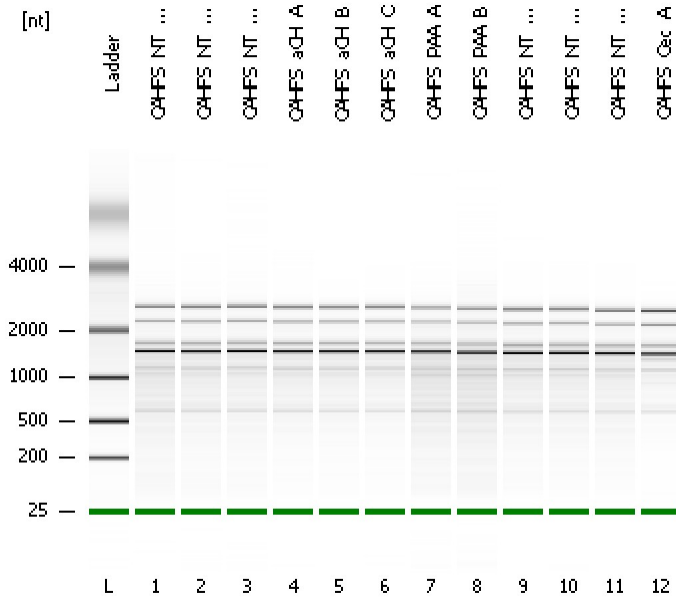


Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 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 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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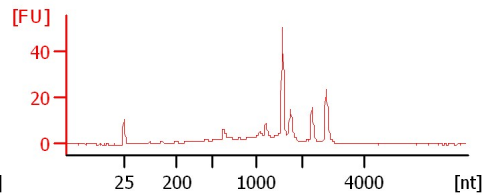
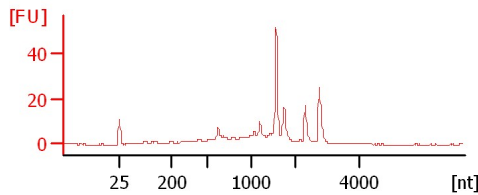
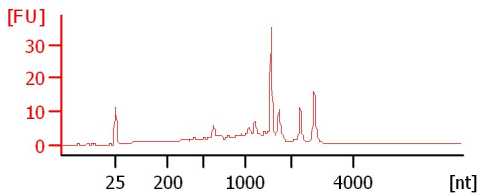
Chip Information:

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

CAHFS_NT_A_90min.

CAHFS_NT_B_90min.

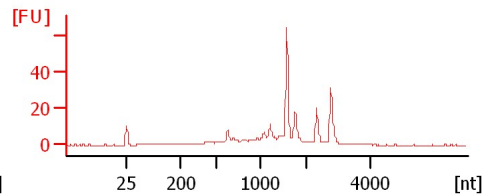
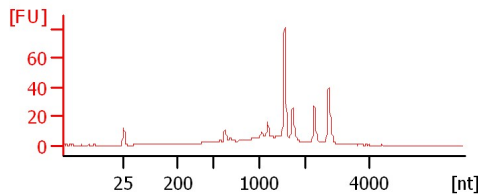
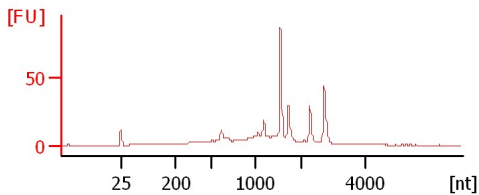
CAHFS_NT_C_90min.



CAHFS_aCH_A

CAHFS_aCH_B

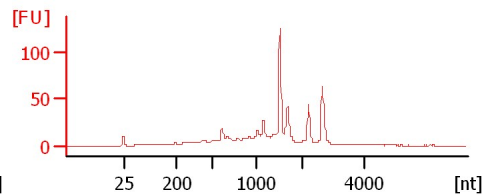
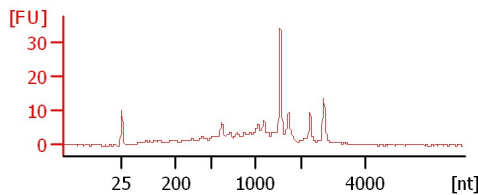
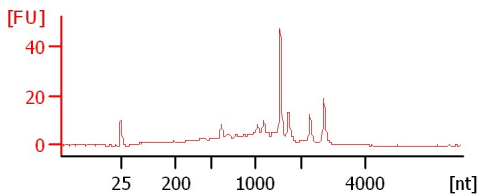
CAHFS_aCH_C



CAHFS_PAA_A

CAHFS_PAA_B

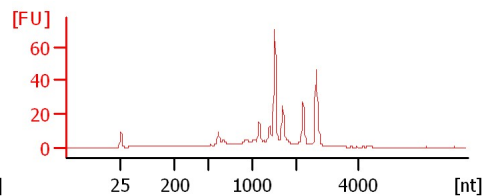
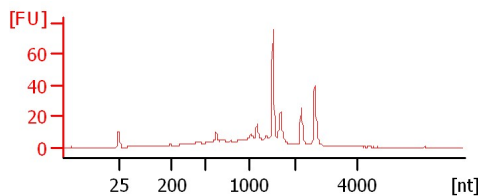
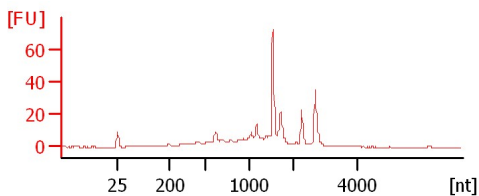
CAHFS_NT_A_8sec.



CAHFS_NT_B_8sec.

CAHFS_NT_C_8sec.

CAHFS_Cec_A



Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
CAHFS_NT_A_90min.		✓		
CAHFS_NT_B_90min.		✓		
CAHFS_NT_C_90min.		✓		
CAHFS_aCH_A		✓		
CAHFS_aCH_B		✓		
CAHFS_aCH_C		✓		
CAHFS_PAA_A		✓		
CAHFS_PAA_B		✓		
CAHFS_NT_A_8sec.		✓		
CAHFS_NT_B_8sec.		✓		
CAHFS_NT_C_8sec.		✓		
CAHFS_Cec_A		✓		
Ladder		✓		

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

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

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

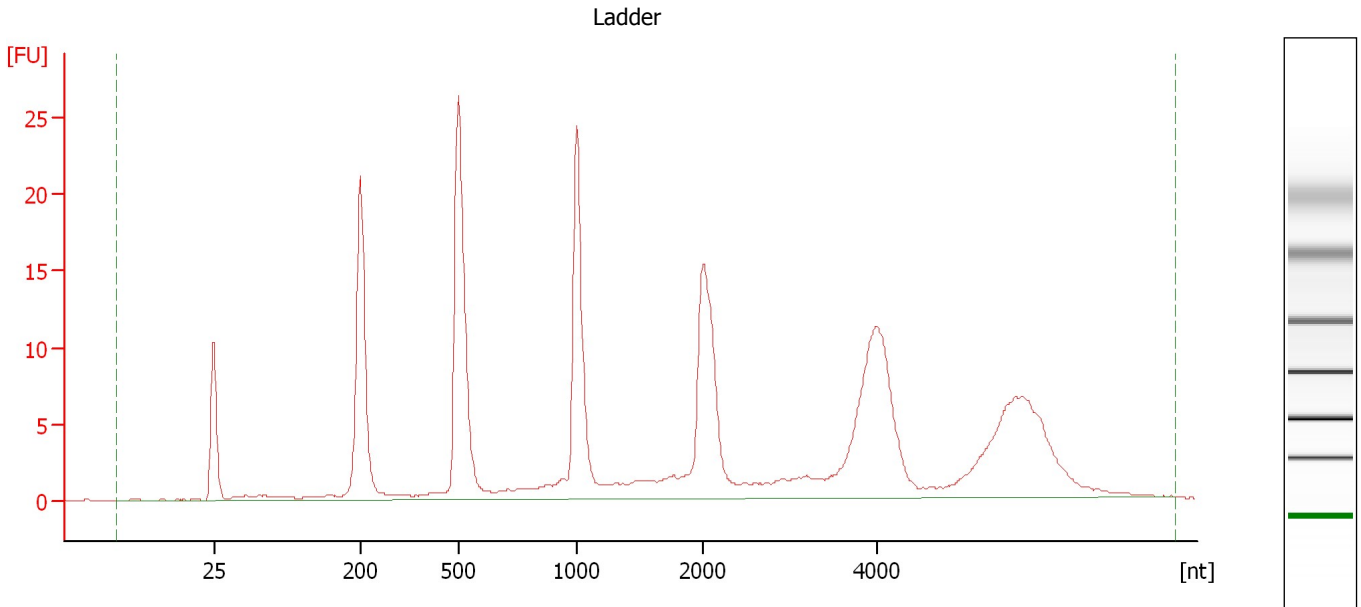
Ladder

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

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary



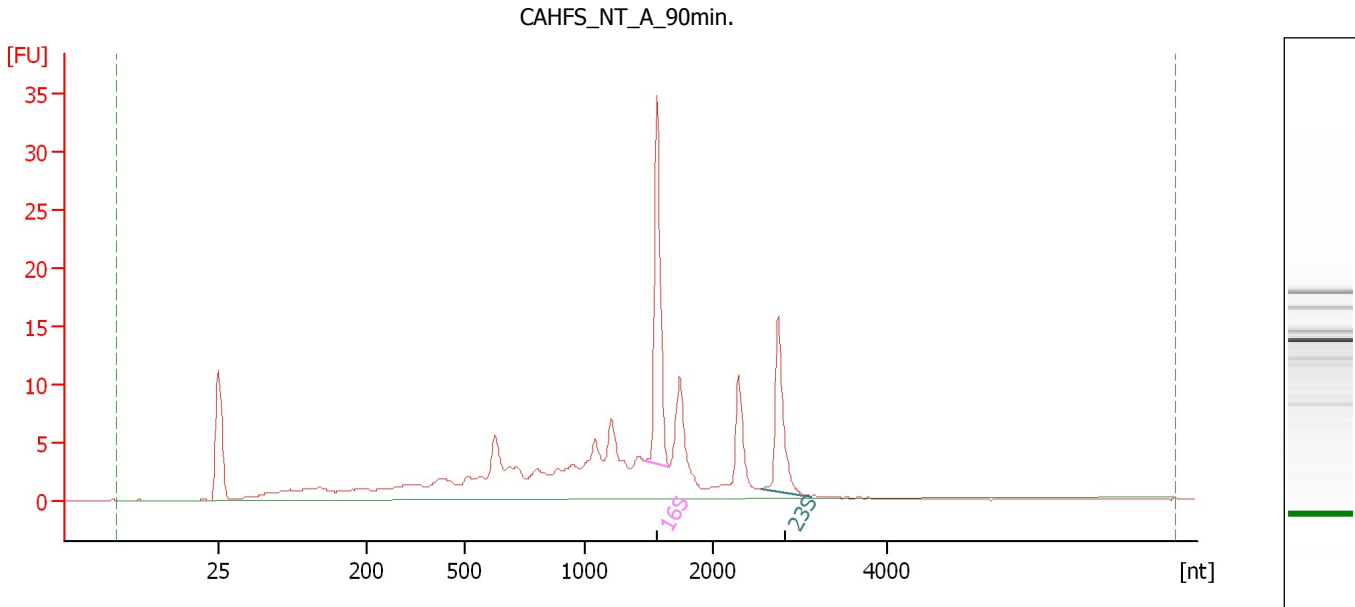
Overall Results for Ladder

RNA Area: 246.0 RNA Concentration: 150 ng/μl

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : CAHFS NT A 90min.

RNA Area: 168.2 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 103 ng/μl RNA Integrity Number (RIN): 6.2 (B.02.08)

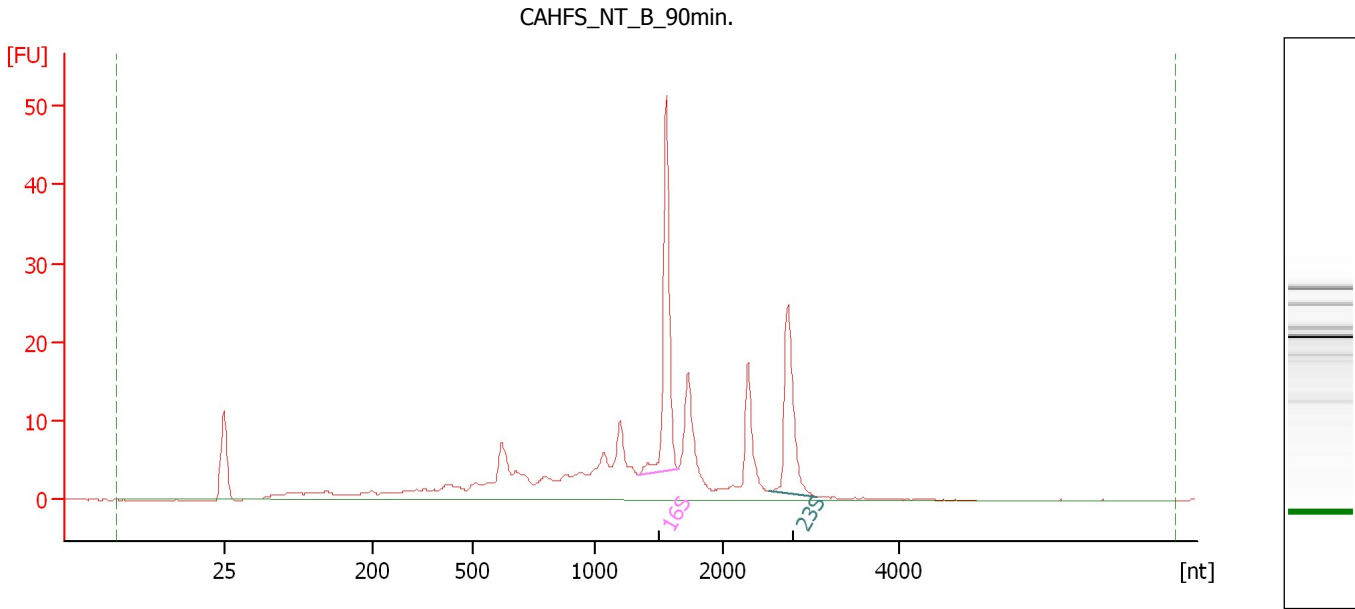
Fragment table for sample 1 : CAHFS NT A 90min.

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,472	1,665	22.4	13.3
23S	2,565	3,141	13.4	8.0

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CAHFS NT B 90min.

RNA Area: 216.0 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 132 ng/μl RNA Integrity Number (RIN): 6.5 (B.02.08)

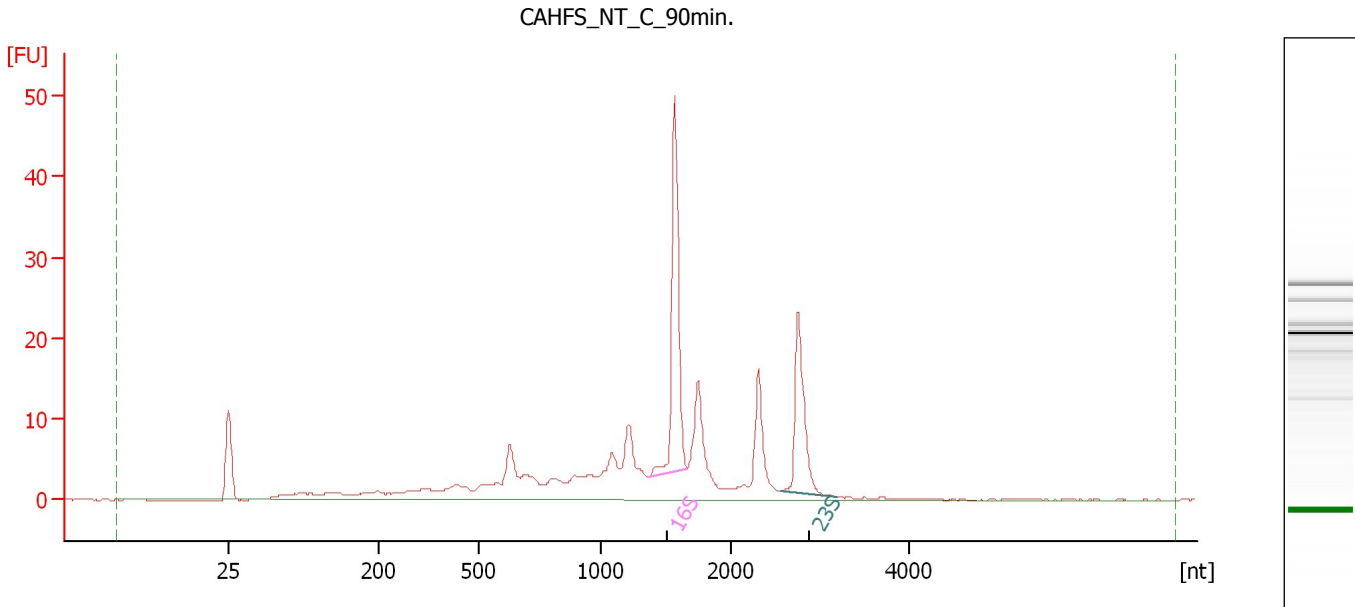
Fragment table for sample 2 : CAHFS NT B 90min.

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,346	1,654	35.8	16.6
23S	2,538	3,083	22.0	10.2

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CAHFS NT C 90min.

RNA Area: 207.0 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 126 ng/μl RNA Integrity Number (RIN): 6.6 (B.02.08)

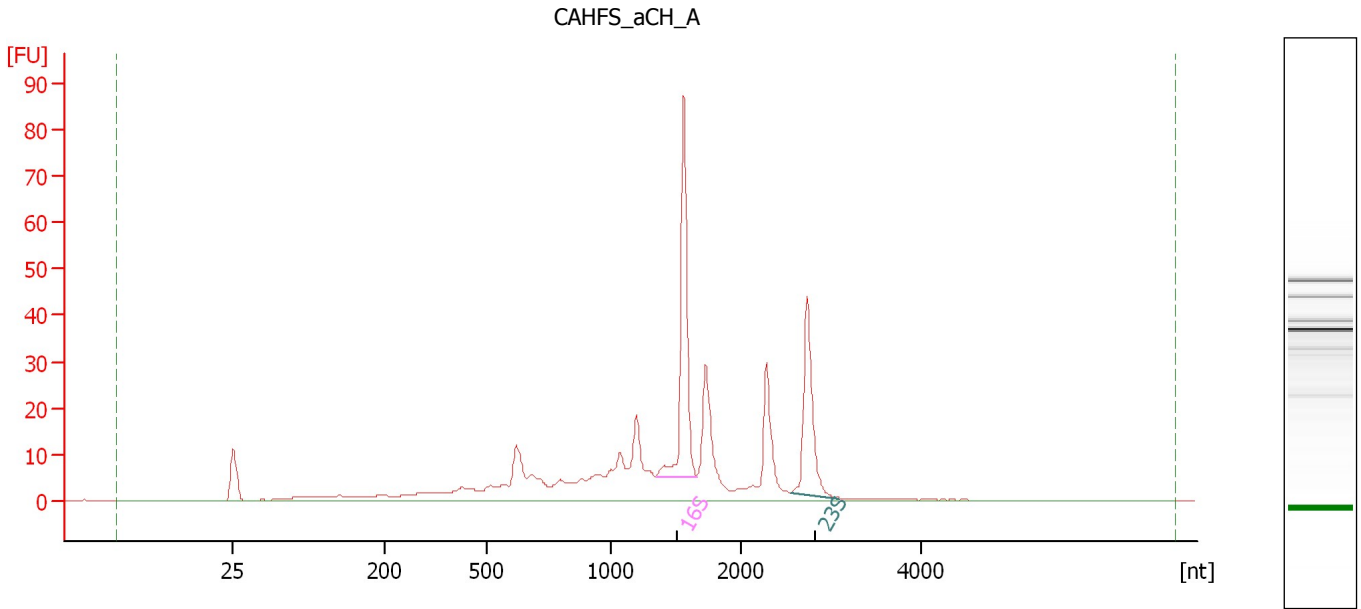
Fragment table for sample 3 : CAHFS NT C 90min.

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,369	1,666	34.9	16.8
23S	2,560	3,197	21.2	10.3

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CAHFS_aCH_A

RNA Area: 353.7 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 216 ng/μl RNA Integrity Number (RIN): 6.6 (B.02.08)

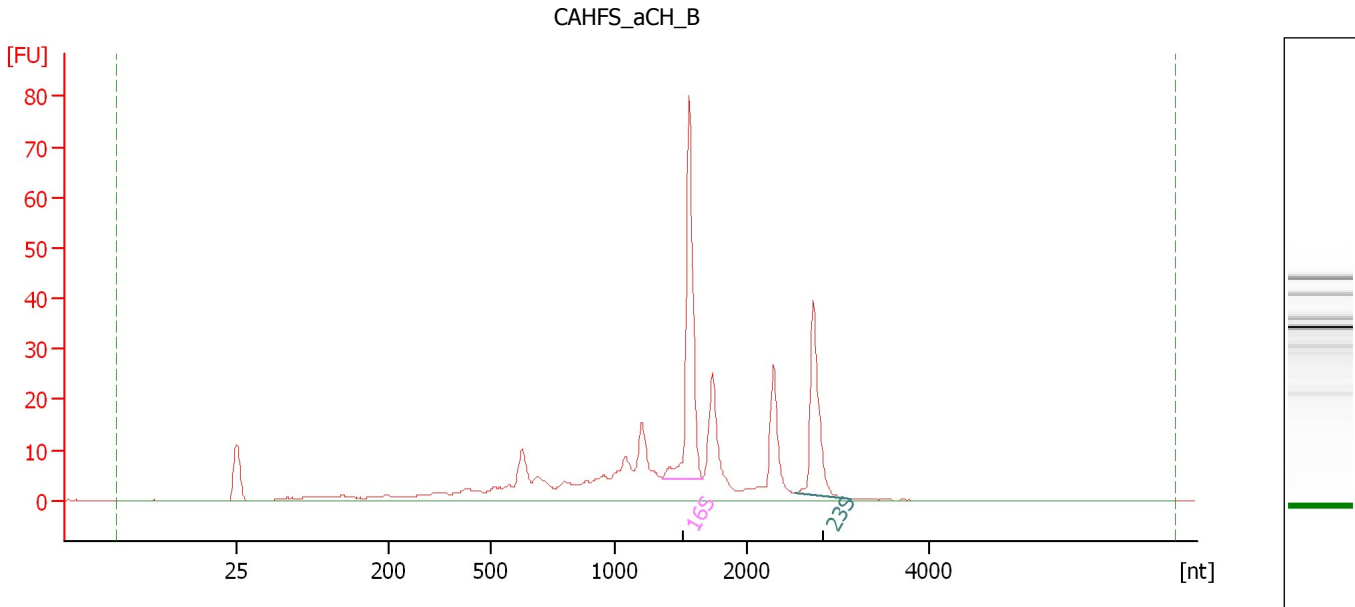
Fragment table for sample 4 : CAHFS_aCH_A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,353	1,655	63.5	18.0
23S	2,545	3,093	38.4	10.9

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CAHFS_aCH_B

RNA Area: 297.6 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 181 ng/μl RNA Integrity Number (RIN): 6.7 (B.02.08)

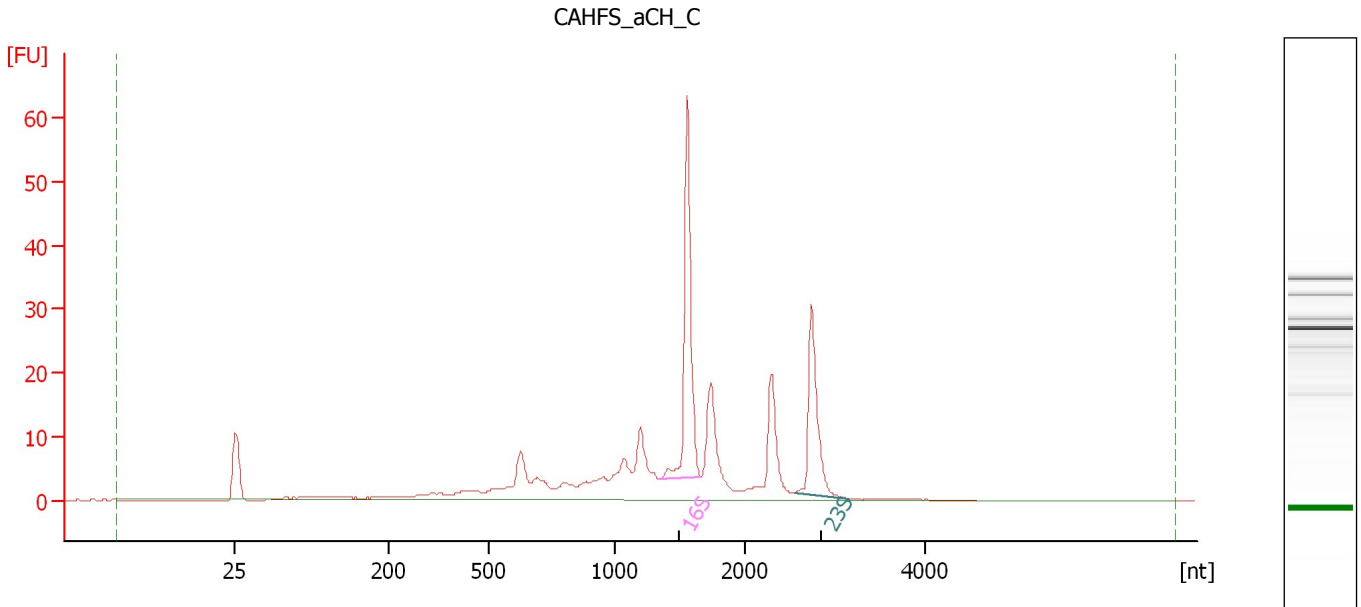
Fragment table for sample 5 : CAHFS_aCH_B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,350	1,658	58.4	19.6
23S	2,532	3,147	33.8	11.4

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CAHFS_aCH_C

RNA Area: 227.8 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 139 ng/μl RNA Integrity Number (RIN): 6.8 (B.02.08)

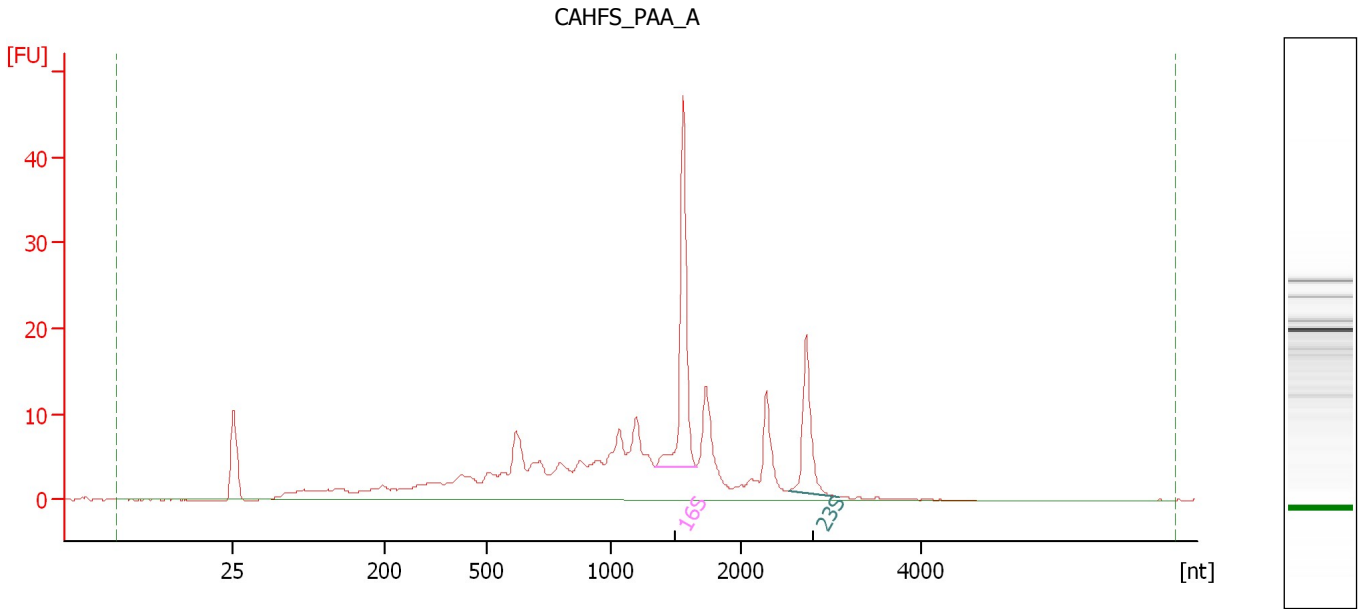
Fragment table for sample 6 : CAHFS_aCH_C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,348	1,657	45.5	20.0
23S	2,544	3,149	27.4	12.0

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CAHFS_PAA_A

RNA Area: 241.9 rRNA Ratio [23s / 16s]: 0.4
RNA Concentration: 147 ng/μl RNA Integrity Number (RIN): 6 (B.02.08)

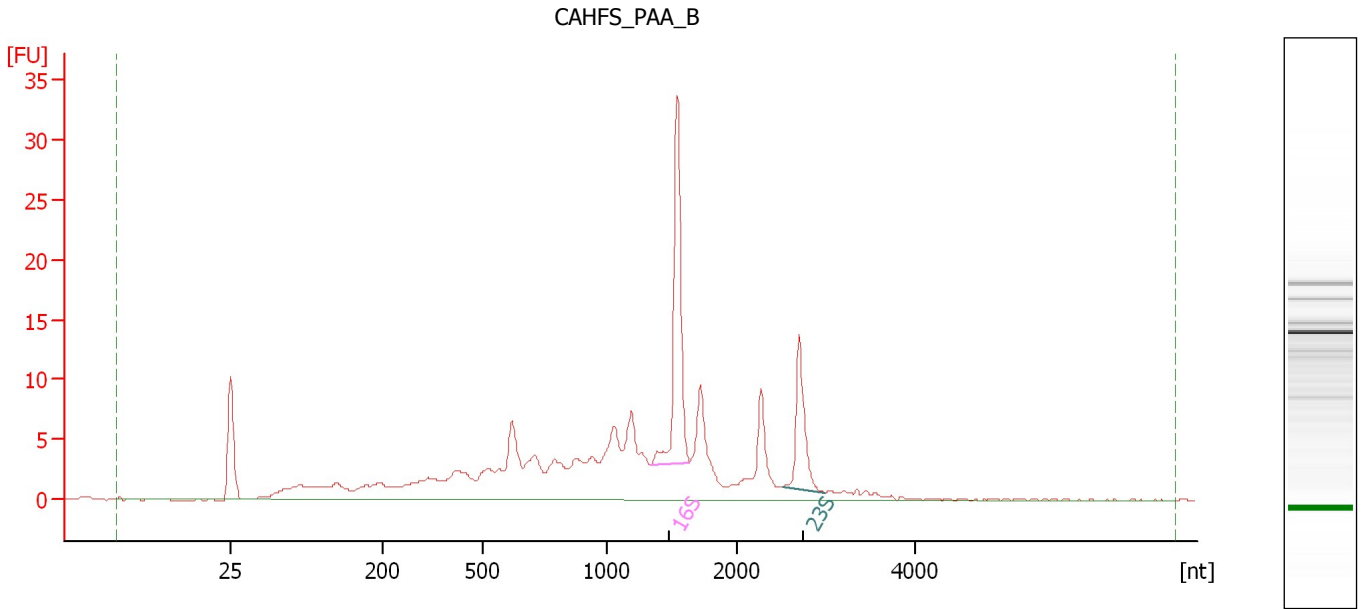
Fragment table for sample 7 : CAHFS_PAA_A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,345	1,655	33.9	14.0
23S	2,533	3,093	15.2	6.3

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CAHFS_PAA_B

RNA Area: 196.5 rRNA Ratio [23s / 16s]: 0.5
RNA Concentration: 120 ng/μl RNA Integrity Number (RIN): 6 (B.02.08)

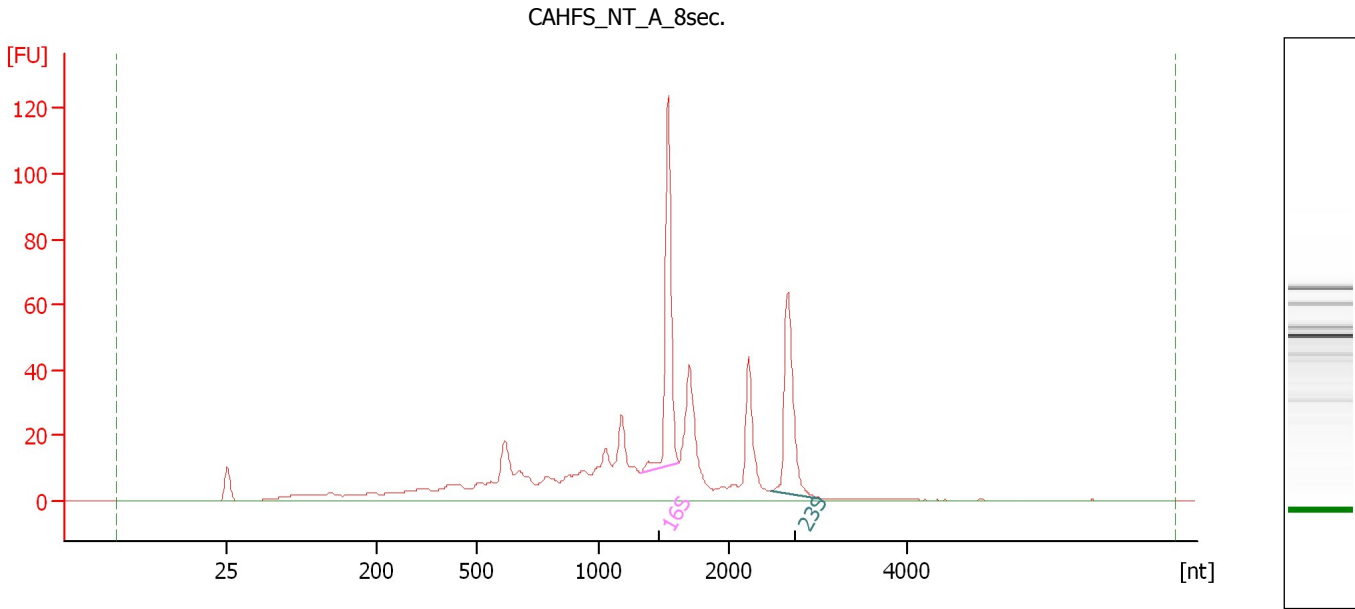
Fragment table for sample 8 : CAHFS_PAA_B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,333	1,637	24.3	12.4
23S	2,510	2,976	11.1	5.6

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CAHFS NT A 8sec.

RNA Area: 558.8 rRNA Ratio [23s / 16s]: 0.7
RNA Concentration: 341 ng/μl RNA Integrity Number (RIN): 6.4 (B.02.08)

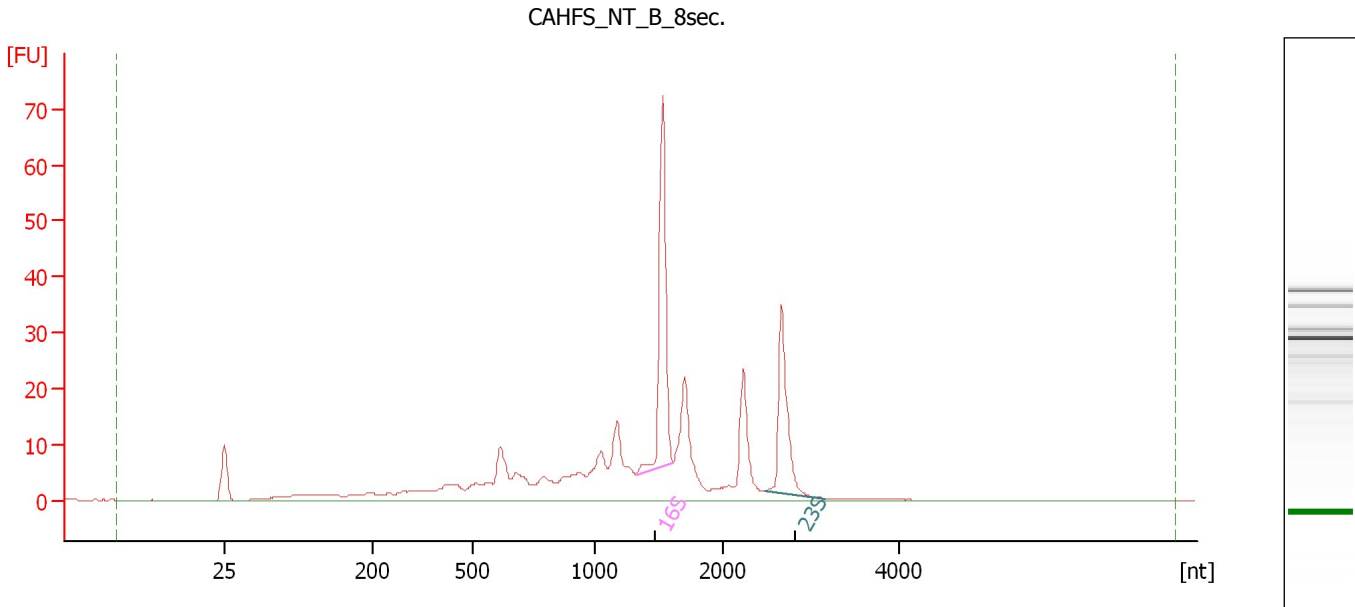
Fragment table for sample 9 : CAHFS NT A 8sec.

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,318	1,607	83.6	15.0
23S	2,476	3,042	56.7	10.1

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CAHFS NT B 8sec.

RNA Area: 308.9 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 188 ng/μl RNA Integrity Number (RIN): 6.5 (B.02.08)

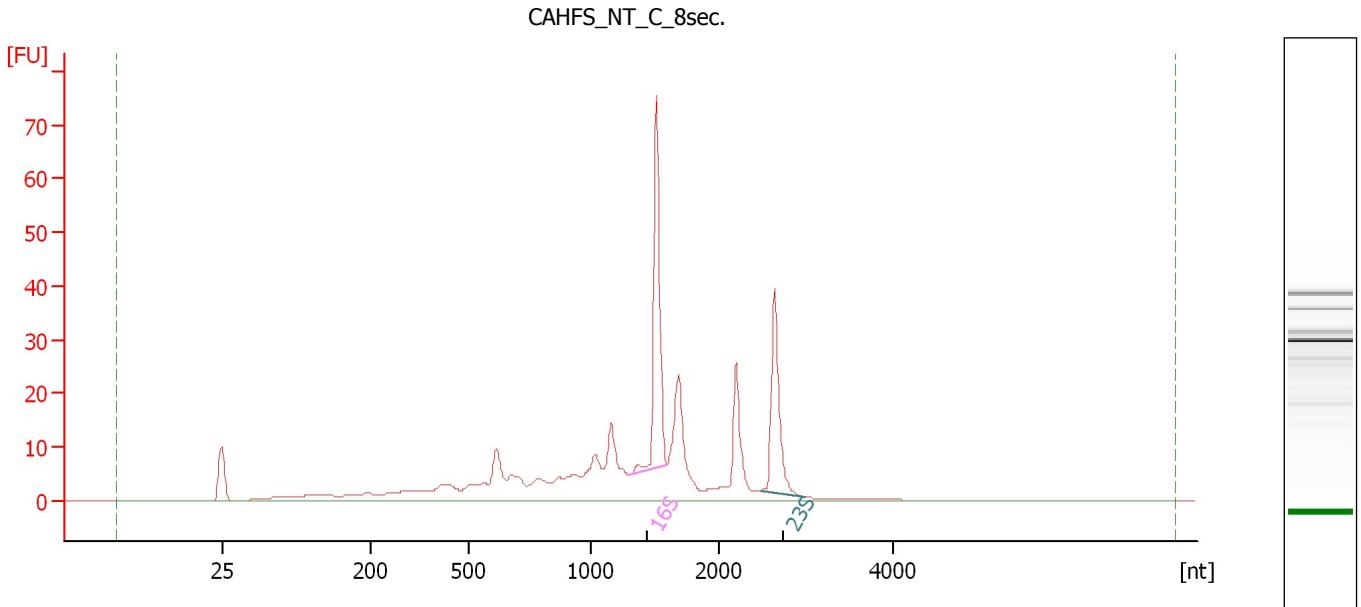
Fragment table for sample 10 : CAHFS NT B 8sec.

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,329	1,620	49.2	15.9
23S	2,477	3,156	31.0	10.1

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CAHFS_NT_C_8sec.

RNA Area: 315.4 rRNA Ratio [23s / 16s]: 0.6
RNA Concentration: 192 ng/μl RNA Integrity Number (RIN): 6.5 (B.02.08)

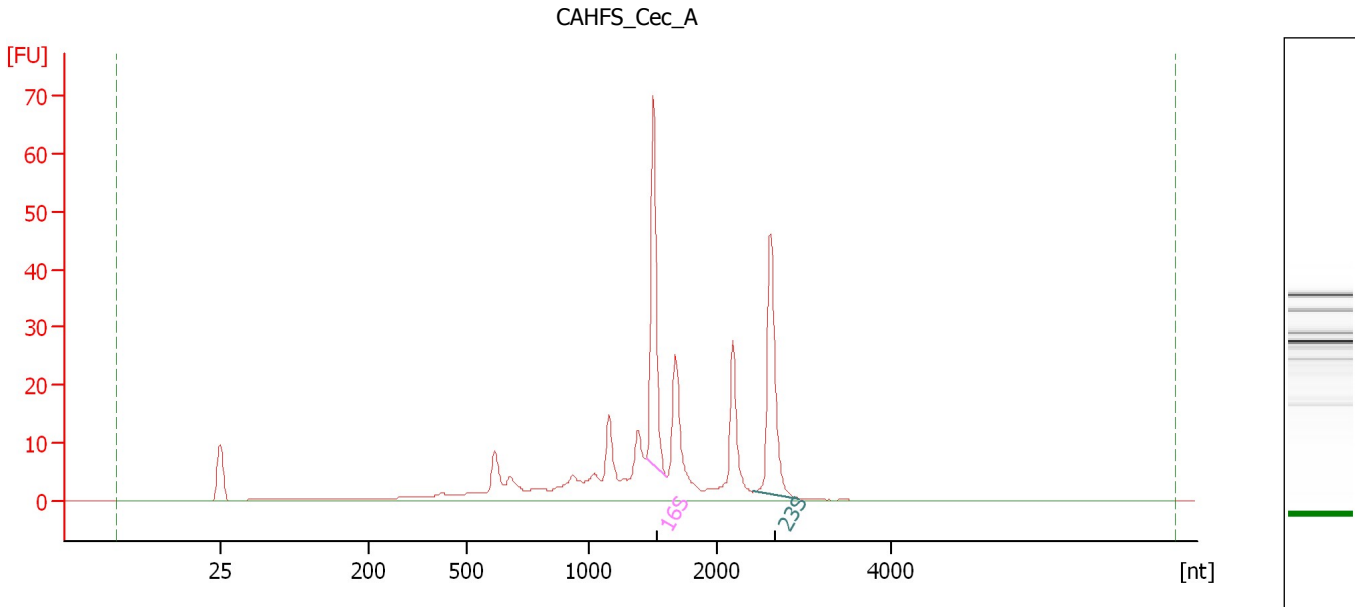
Fragment table for sample 11 : CAHFS_NT_C_8sec.

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,309	1,601	49.8	15.8
23S	2,478	2,989	31.5	10.0

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : CAHFS_Cec_A

RNA Area: 255.9 rRNA Ratio [23s / 16s]: 0.8
RNA Concentration: 156 ng/μl RNA Integrity Number (RIN): 6.8 (B.02.08)

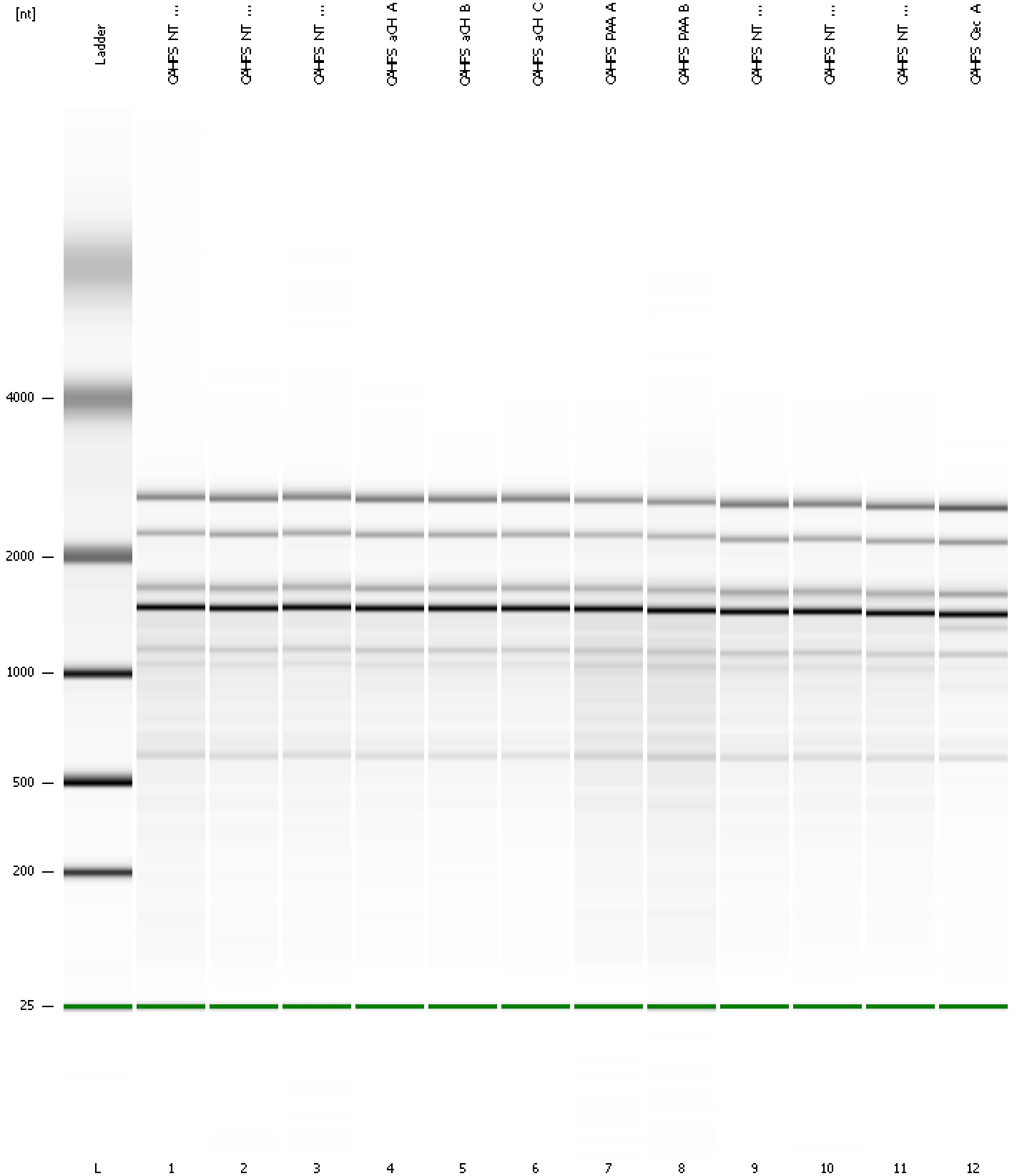
Fragment table for sample 12 : CAHFS_Cec_A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,449	1,609	44.6	17.4
23S	2,430	2,942	36.8	14.4

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Gel Image

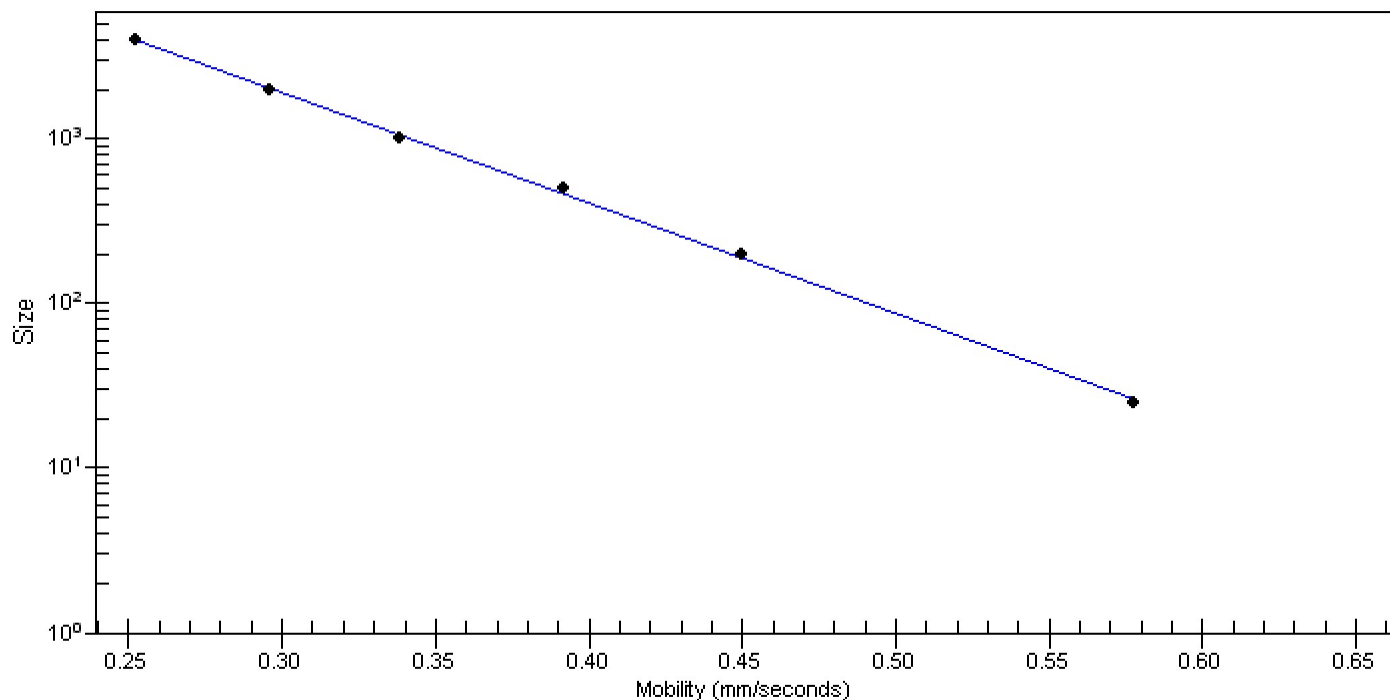


Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
Modified: 10/20/2015 4:43:20 PM

Curves

Standard Curve



Assay Class: Prokaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-20\2015-10-20_003.xad

Created: 10/20/2015 4:19:29 PM
 Modified: 10/20/2015 4:43:20 PM

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		10/20/2015 4:43:19 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_003.xad)		Instrument	Run		10/20/2015 4:19:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/20/2015 4:19:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/20/2015 4:19:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/20/2015 4:19:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/20/2015 4:19:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/20/2015 4:19:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/20/2015 4:19:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1