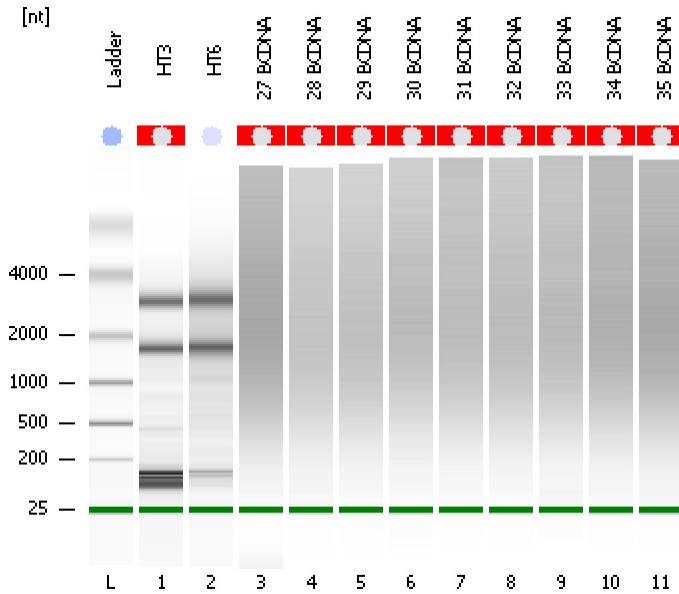


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 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\Eukaryote Total RNA Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico

Version: 2.6

Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

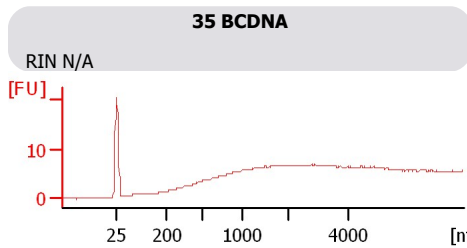
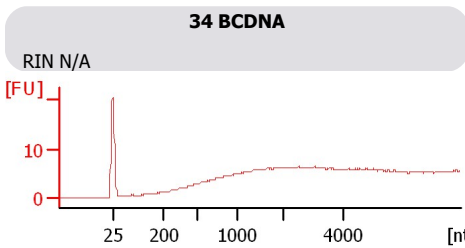
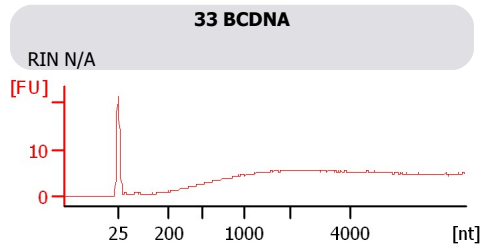
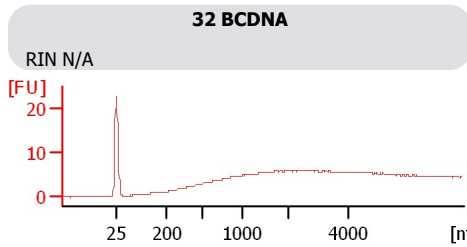
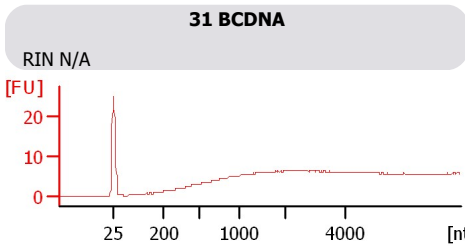
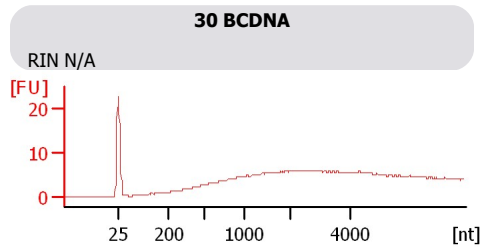
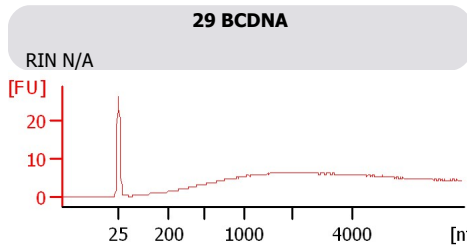
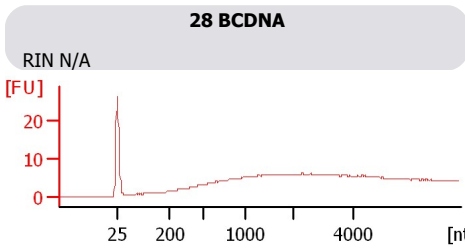
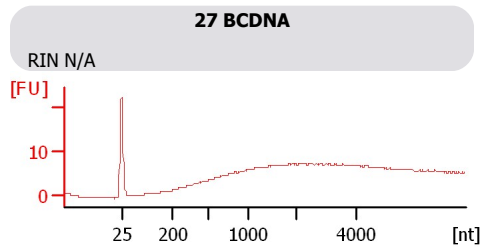
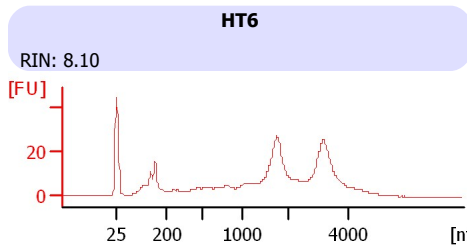
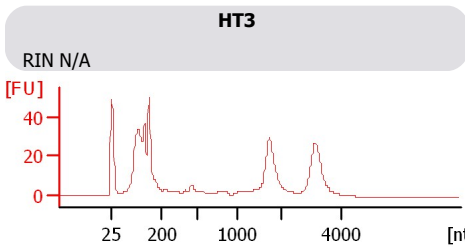
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
 Modified: 8/19/2016 12:11:03 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
HT3		✓	RIN N/A	
HT6		✓	RIN: 8.10	
27 BCDNA		✓	RIN N/A	
28 BCDNA		✓	RIN N/A	
29 BCDNA		✓	RIN N/A	
30 BCDNA		✓	RIN N/A	
31 BCDNA		✓	RIN N/A	
32 BCDNA		✓	RIN N/A	
33 BCDNA		✓	RIN N/A	
34 BCDNA		✓	RIN N/A	
35 BCDNA		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 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/ 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

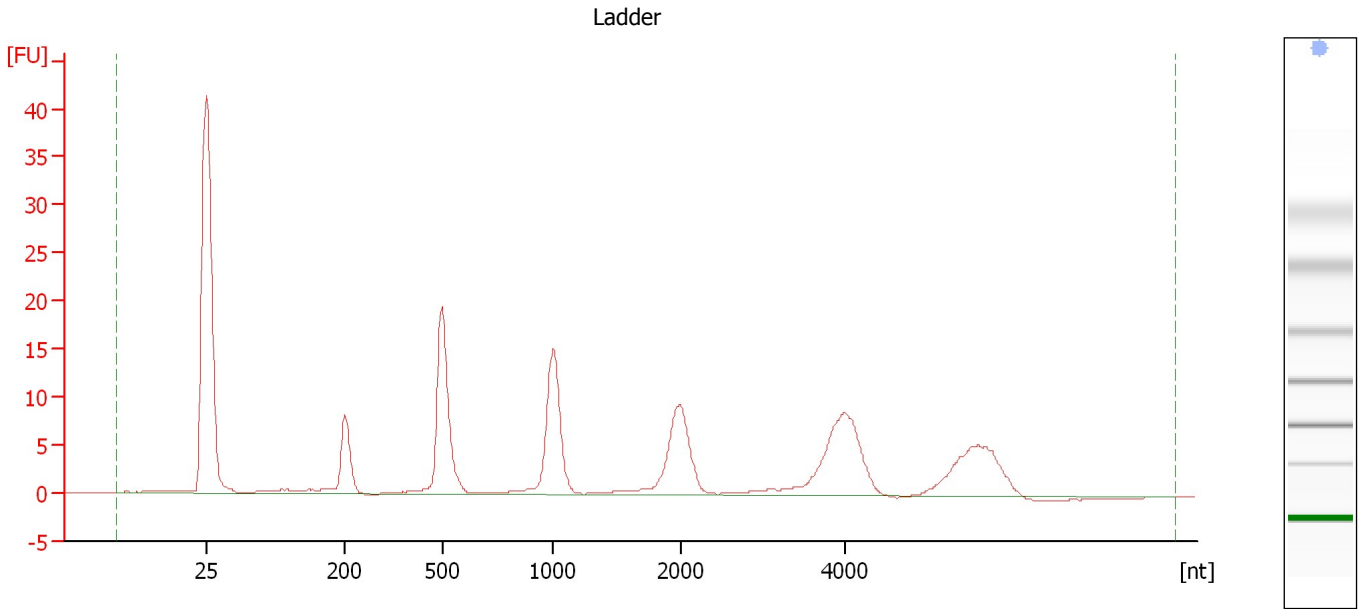
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary



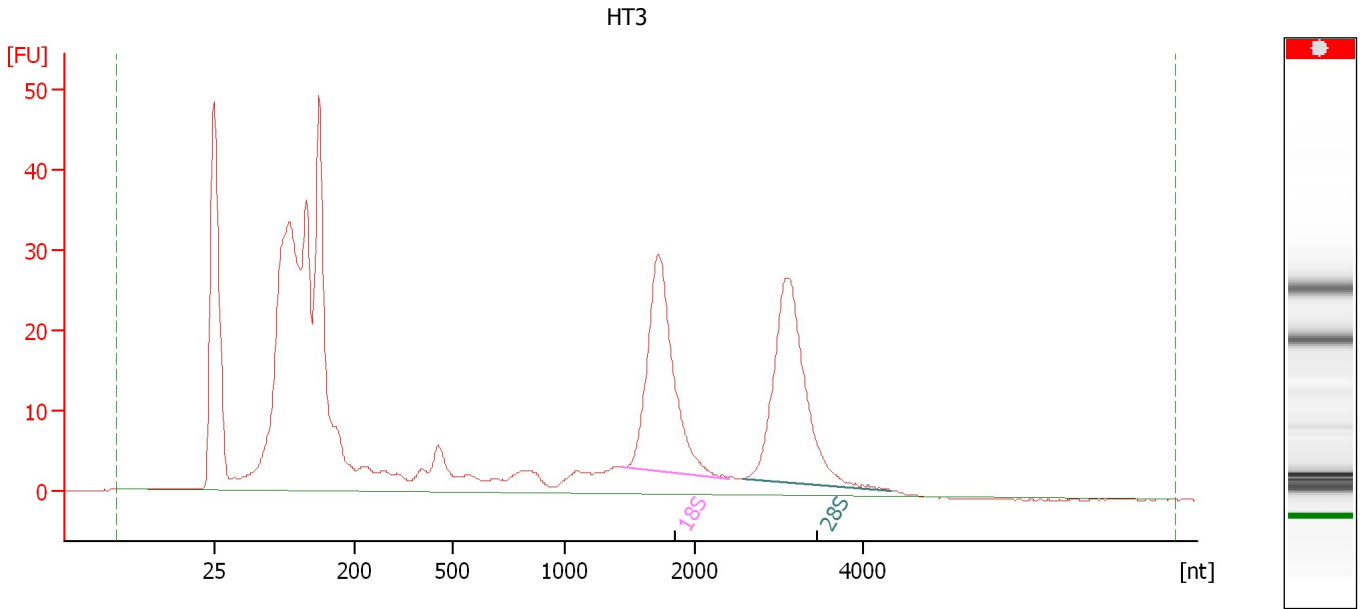
Overall Results for Ladder

RNA Area:	169.3	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
 Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HT3

RNA Area:	630.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,722 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN N/A

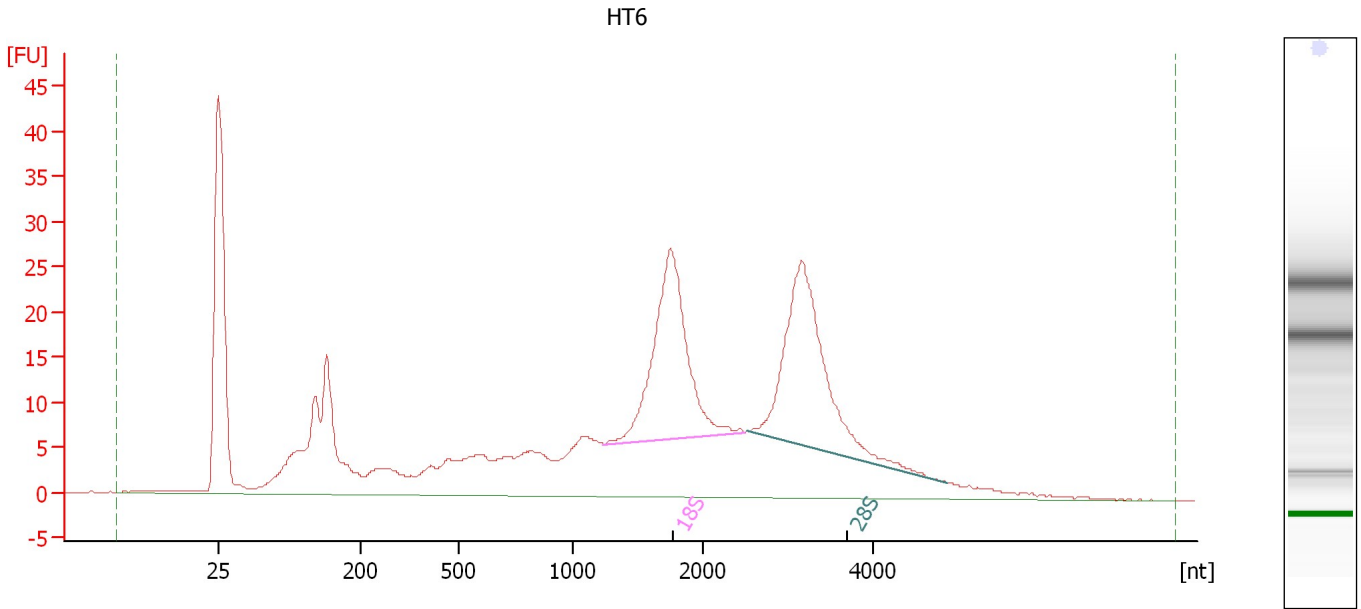
Fragment table for sample 1 : HT3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,432	2,399	83.7	13.3
28S	2,578	4,345	86.0	13.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HT6

RNA Area: 553.5 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 3,270 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 8.10

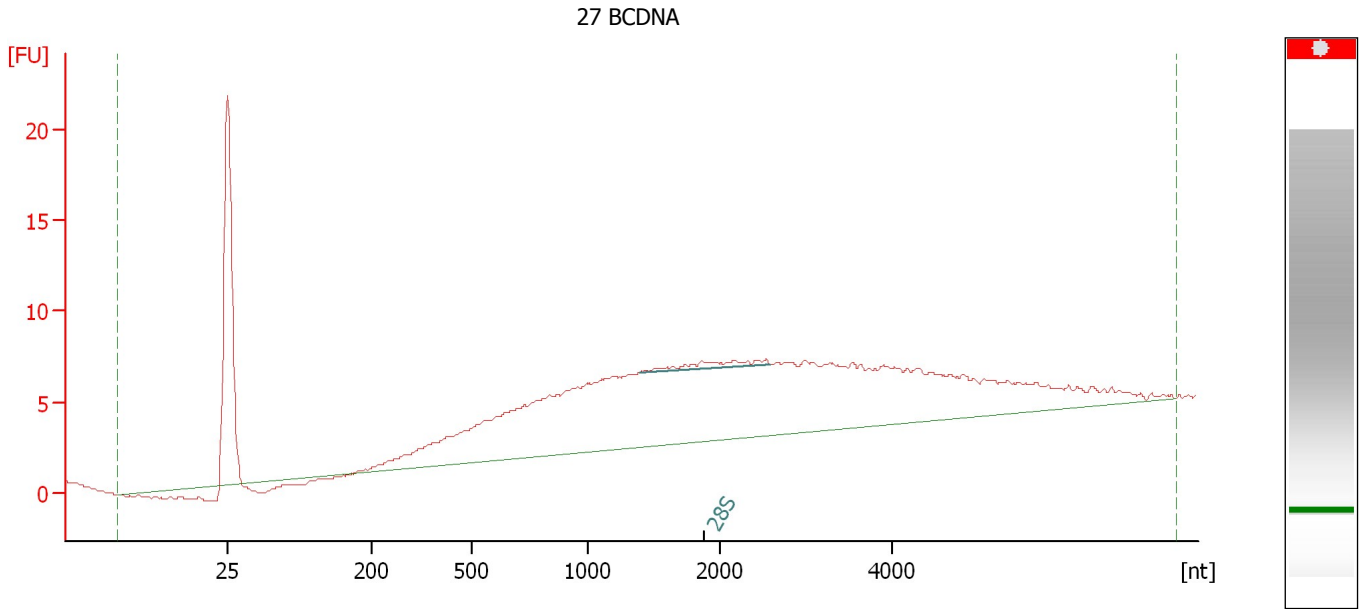
Fragment table for sample 2 : HT6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,233	2,488	81.5	14.7
28S	2,513	4,871	85.4	15.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
 Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 27 BCDNA

RNA Area:	203.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,203 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

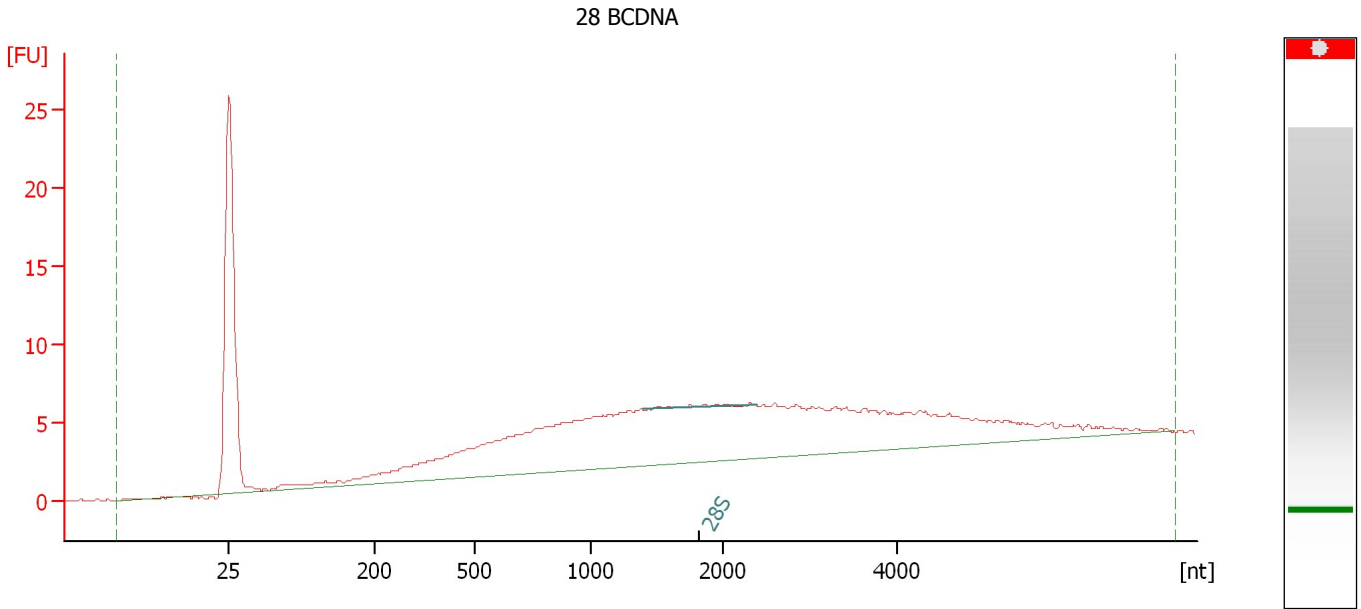
Fragment table for sample 3 : 27 BCDNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,386	2,586	2.8	1.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 28 BCDNA

RNA Area:	177.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,050 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

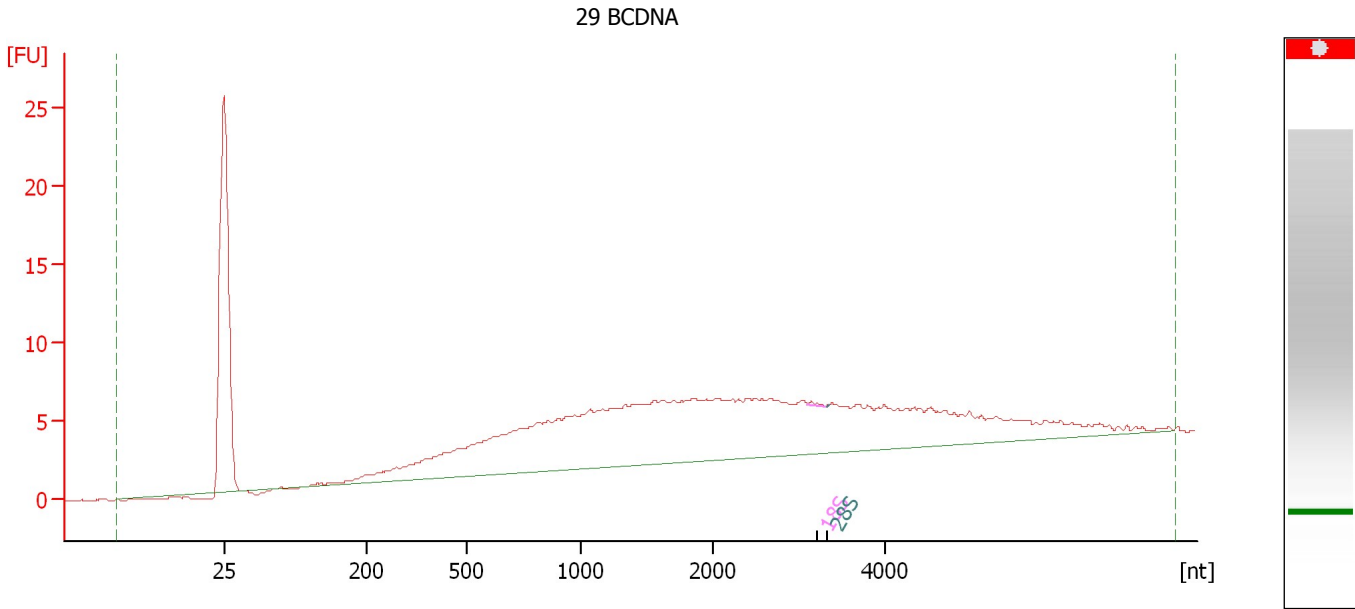
Fragment table for sample 4 : 28 BCDNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,389	2,375	0.7	0.4


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 29 BCDNA

RNA Area:	188.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,114 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

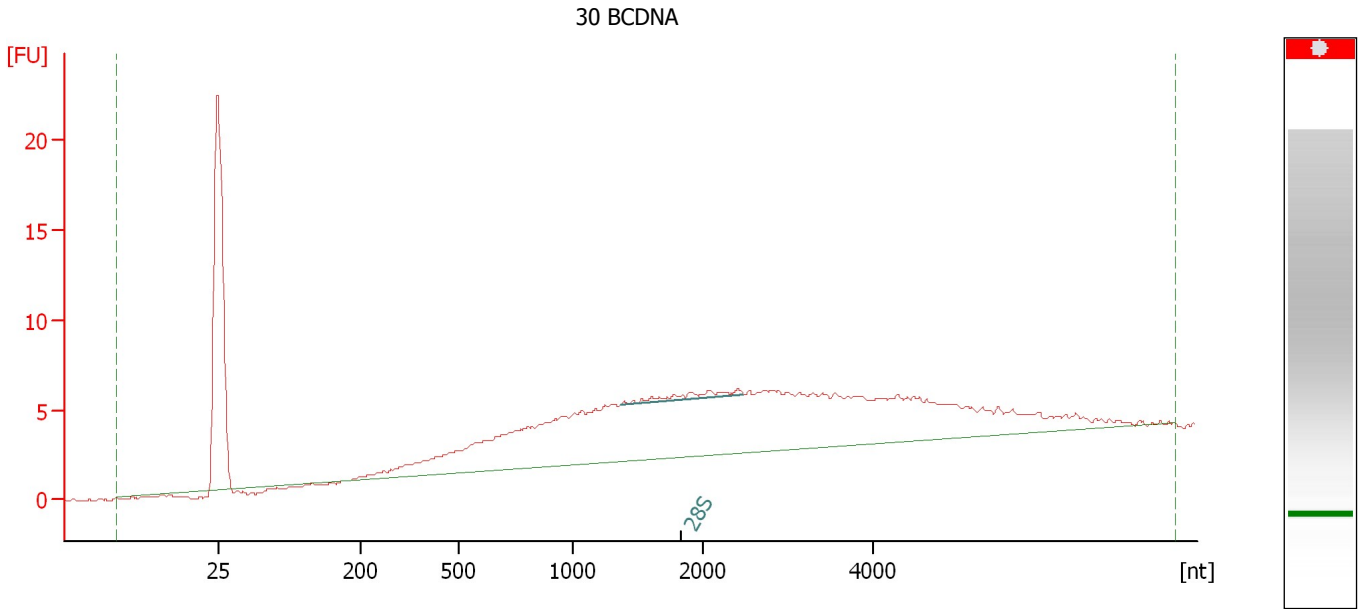
Fragment table for sample 5 : 29 BCDNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,098	3,323	0.2	0.1
28S	3,348	3,323	0.0	0.0


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 30 BCDNA

RNA Area:	159.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	939 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 6 : 30 BCDNA

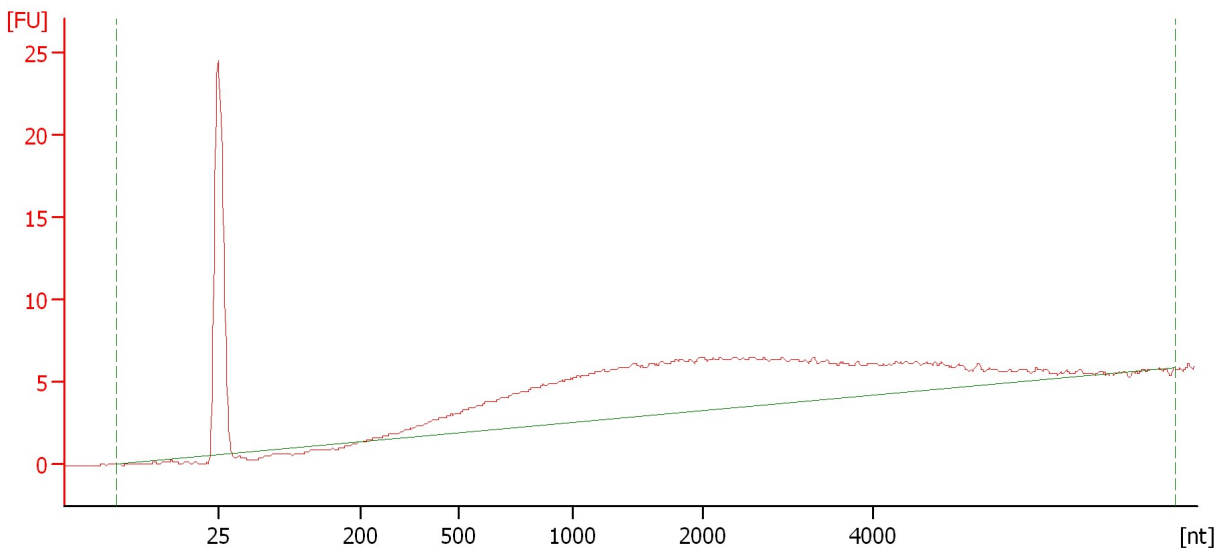
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,373	2,475	2.3	1.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad


Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...

31 BCDNA



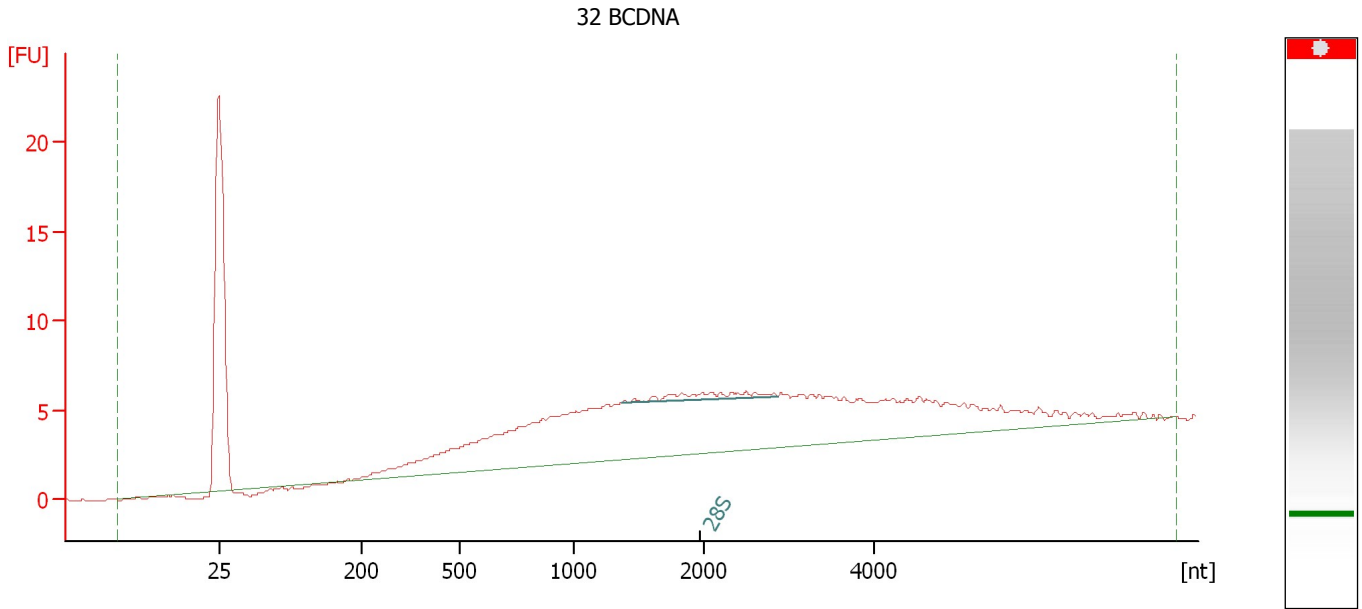
Overall Results for sample 7 : 31 BCDNA

RNA Area:	139.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	824 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
 Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 32 BCDNA

RNA Area:	156.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	927 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

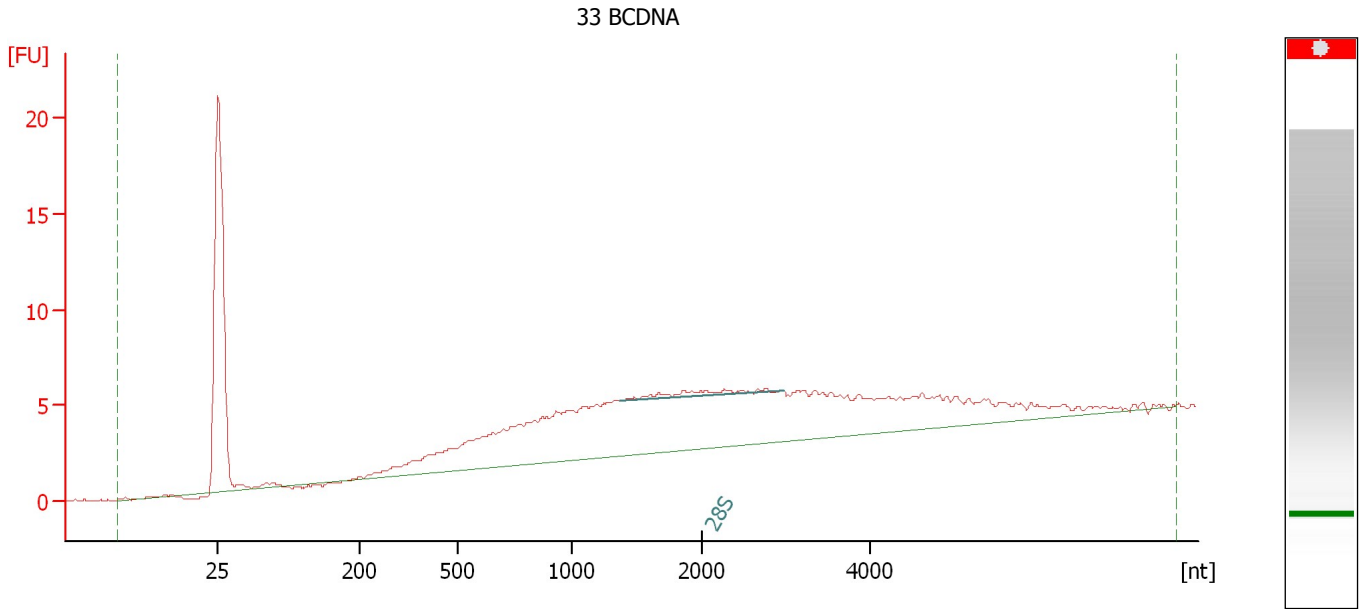
Fragment table for sample 8 : 32 BCDNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,373	2,879	3.0	1.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 33 BCDNA

RNA Area:	135.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	800 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

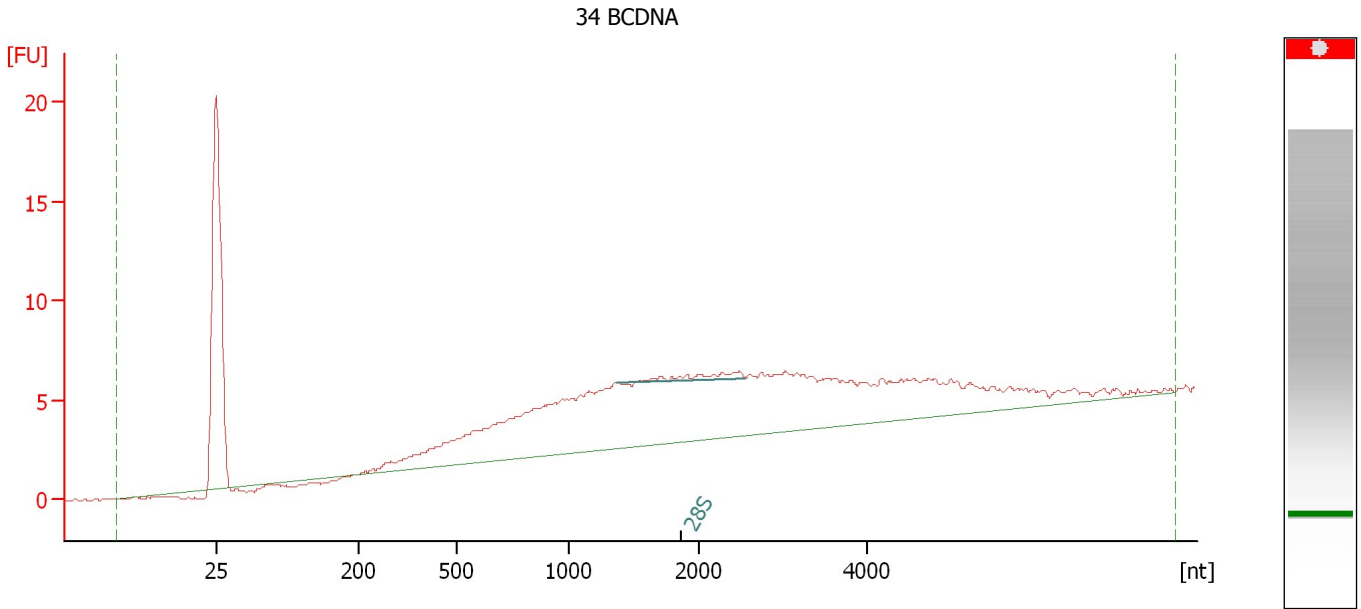
Fragment table for sample 9 : 33 BCDNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,372	2,981	2.2	1.6


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 34 BCDNA

RNA Area:	147.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	874 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

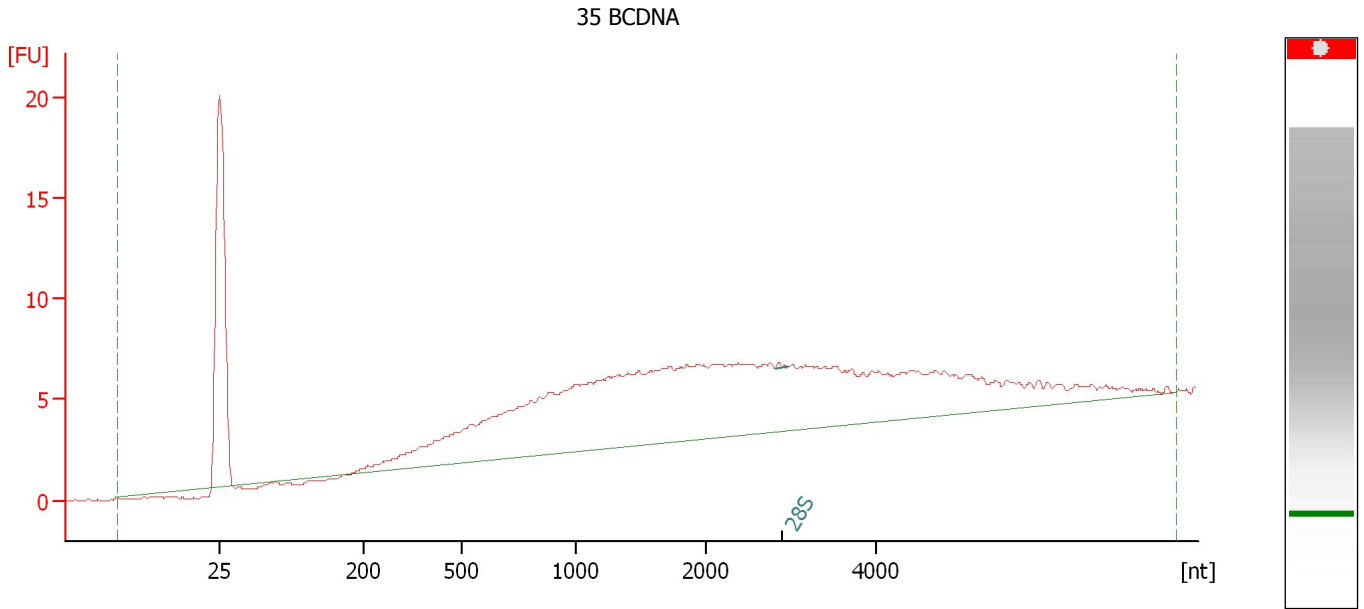
Fragment table for sample 10 : 34 BCDNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,370	2,539	1.6	1.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 35 BCDNA

RNA Area:	175.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,037 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

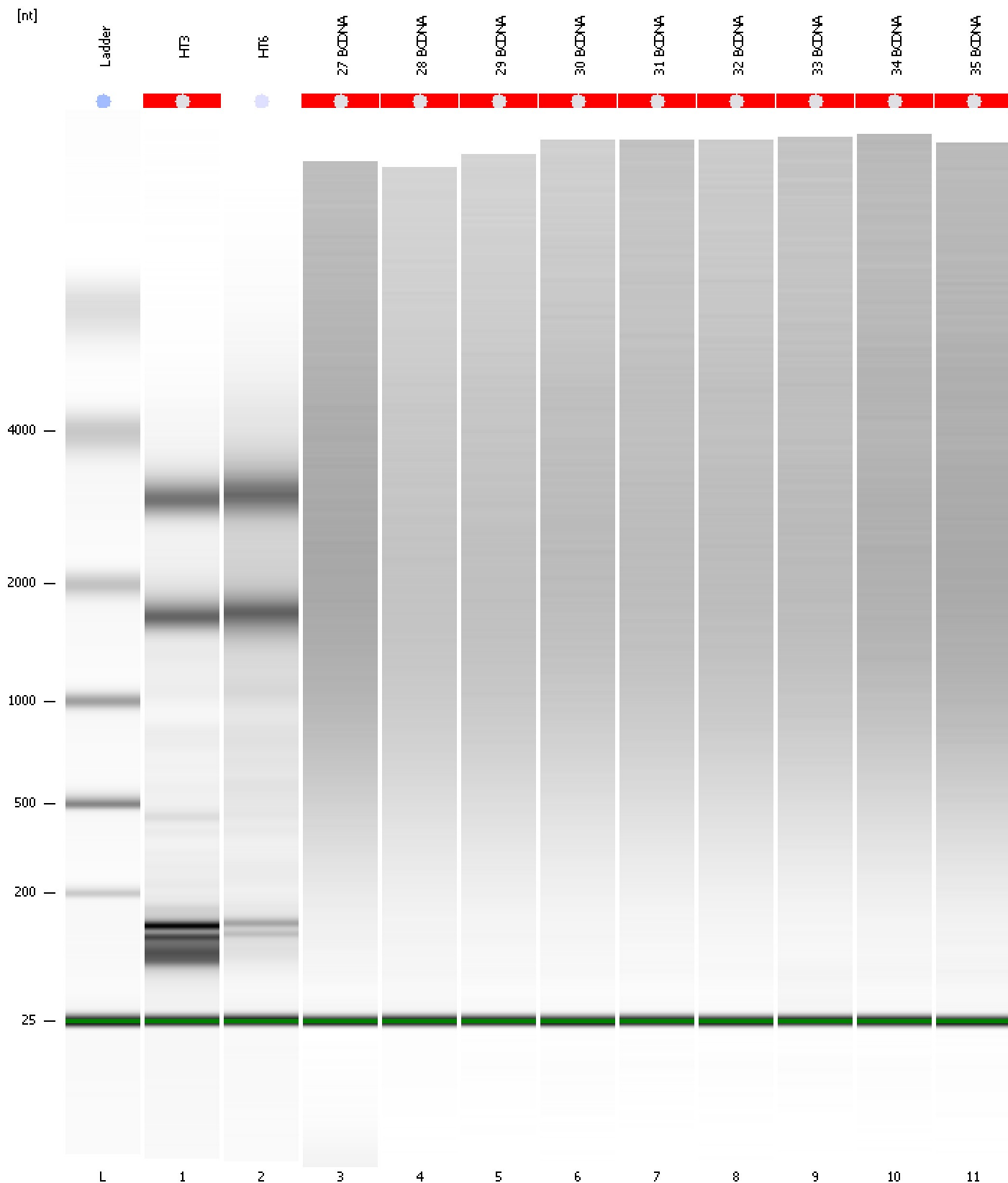
Fragment table for sample 11 : 35 BCDNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,815	2,959	0.2	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
Modified: 8/19/2016 12:11:03 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad

Created: 8/19/2016 11:48:08 AM
 Modified: 8/19/2016 12:11:03 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/19/2016 12:11:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-19\2016-08-19_002.xad)		Instrument	Run		8/19/2016 11:48:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/19/2016 11:48:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/19/2016 11:48:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/19/2016 11:48:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/19/2016 11:48:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/19/2016 11:48:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/19/2016 11:48:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1