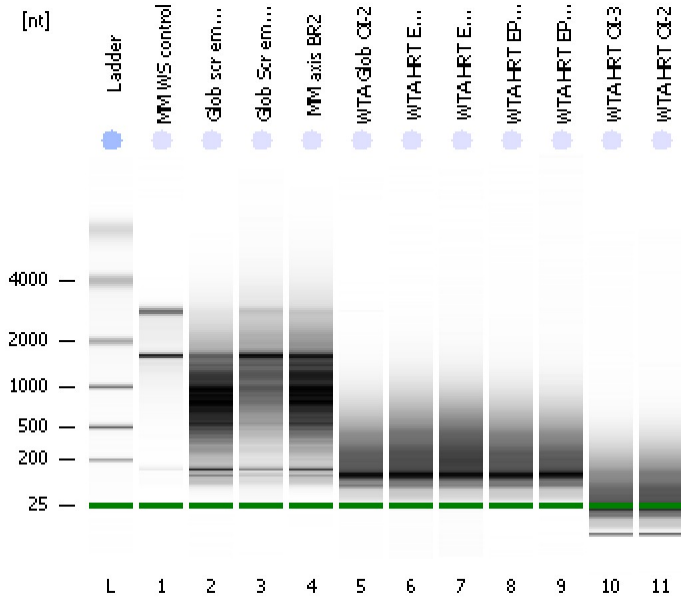


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electrophoresis File Run Summary



Instrument Information:

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

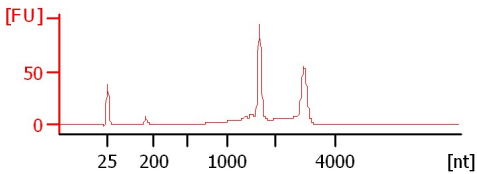
Assay Information:

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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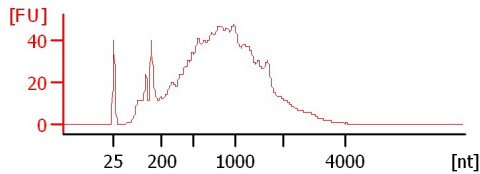
Chip Information:

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

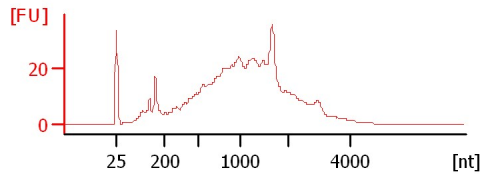
MM WS control
RIN: 8.20



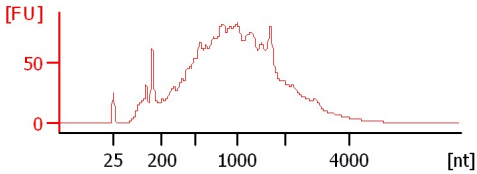
Glob scr embed 4/11
RIN: 2.60



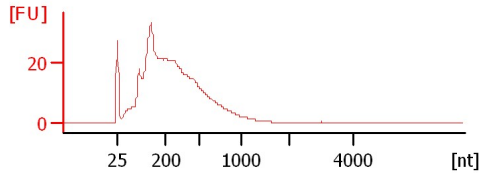
Glob Scr embed 4/22
RIN: 3.60



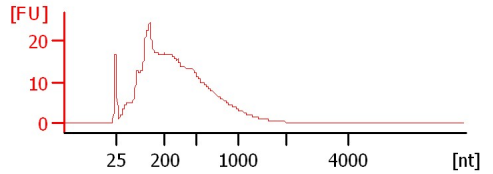
MM axis BR2
RIN: 2.60



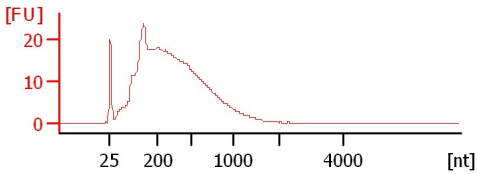
WTA Glob OI-2
RIN: 2.20



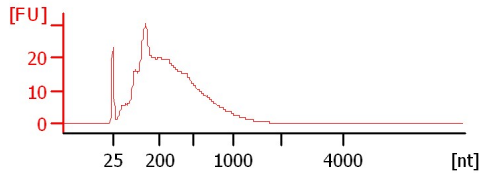
WTA HRT ENT-3
RIN: 2.10



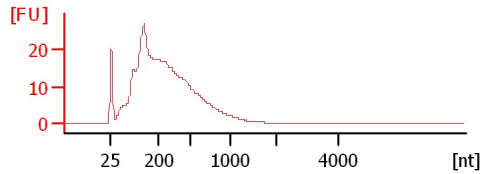
WTA HRT ENT-2
RIN: 2.10



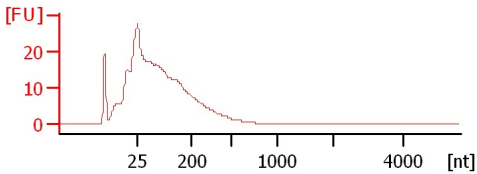
WTA HRT EPD-3
RIN: 2.20



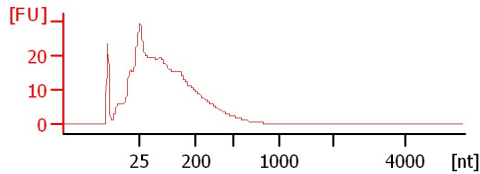
WTA HRT EPD-1
RIN: 2.20



WTA HRT OI-3
RIN: 2



WTA HRT OI-2
RIN: 2.50



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
 Modified: 4/23/2013 4:05:58 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
MM WS control		✓	RIN: 8.20	
Glob scr embed 4/11		✓	RIN: 2.60	
Glob Scr embed 4/22		✓	RIN: 3.60	
MM axis BR2		✓	RIN: 2.60	
WTA Glob OI-2		✓	RIN: 2.20	
WTA HRT ENT-3		✓	RIN: 2.10	
WTA HRT ENT-2		✓	RIN: 2.10	
WTA HRT EPD-3		✓	RIN: 2.20	
WTA HRT EPD-1		✓	RIN: 2.20	
WTA HRT OI-3		✓	RIN:2	
WTA HRT OI-2		✓	RIN: 2.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 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

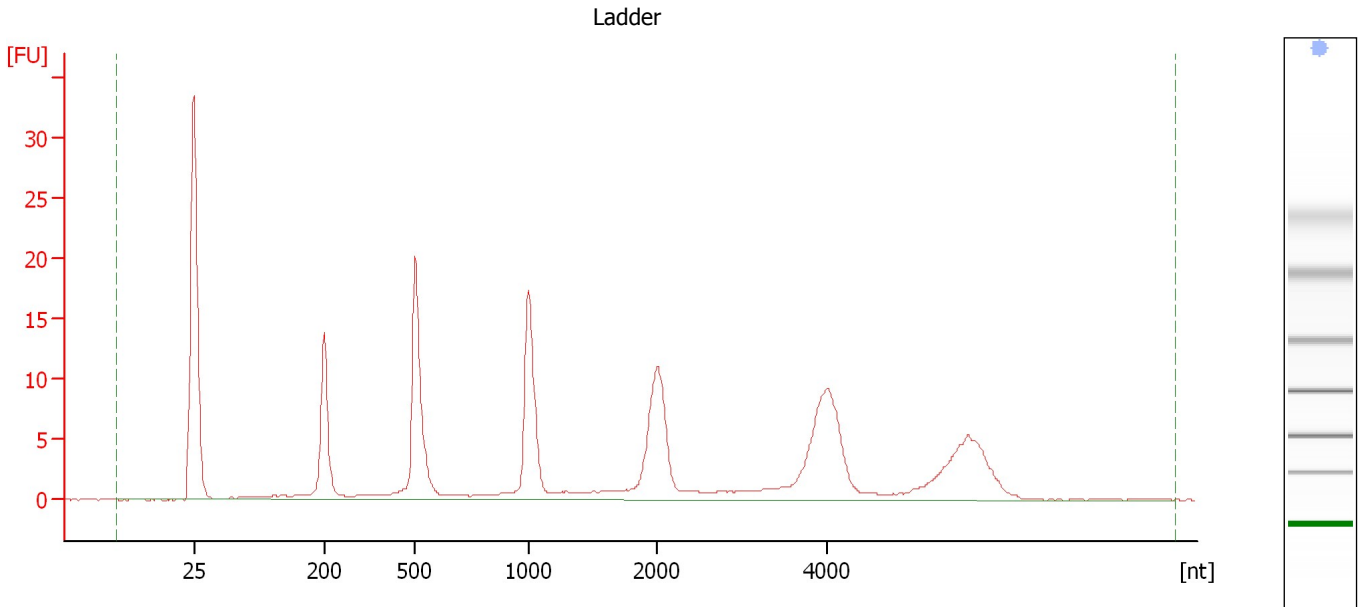
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary



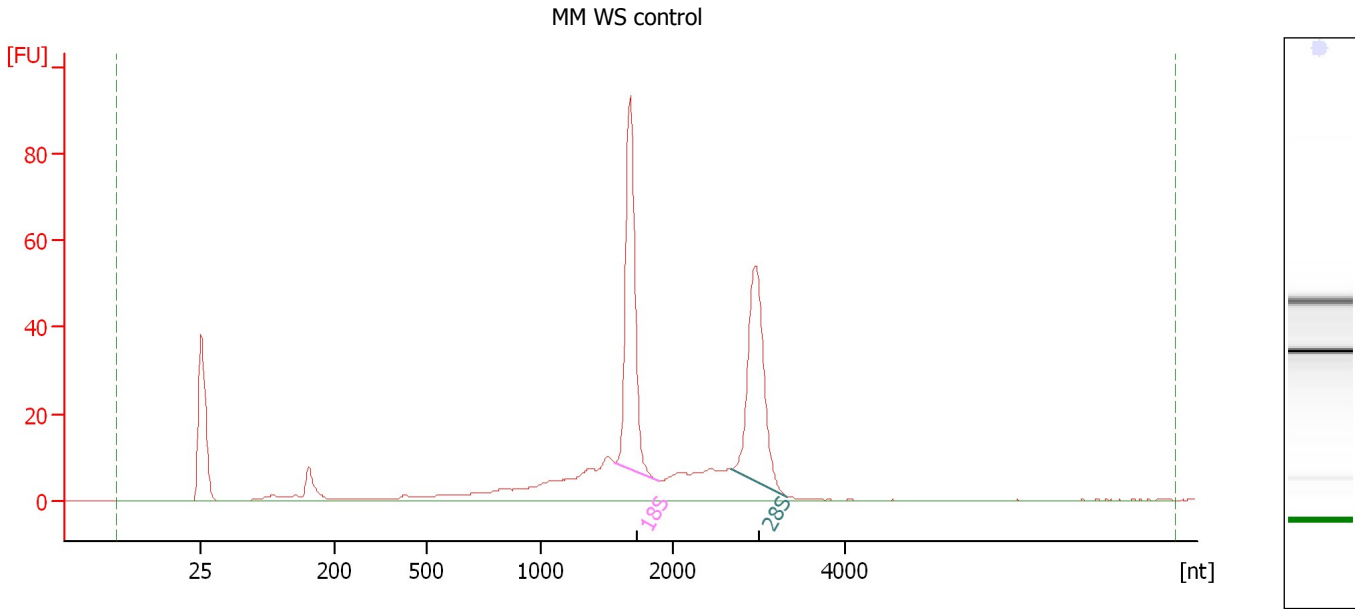
Overall Results for Ladder

RNA Area:	177.8	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MM WS control

RNA Area: 393.1 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 2,210 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 8.20

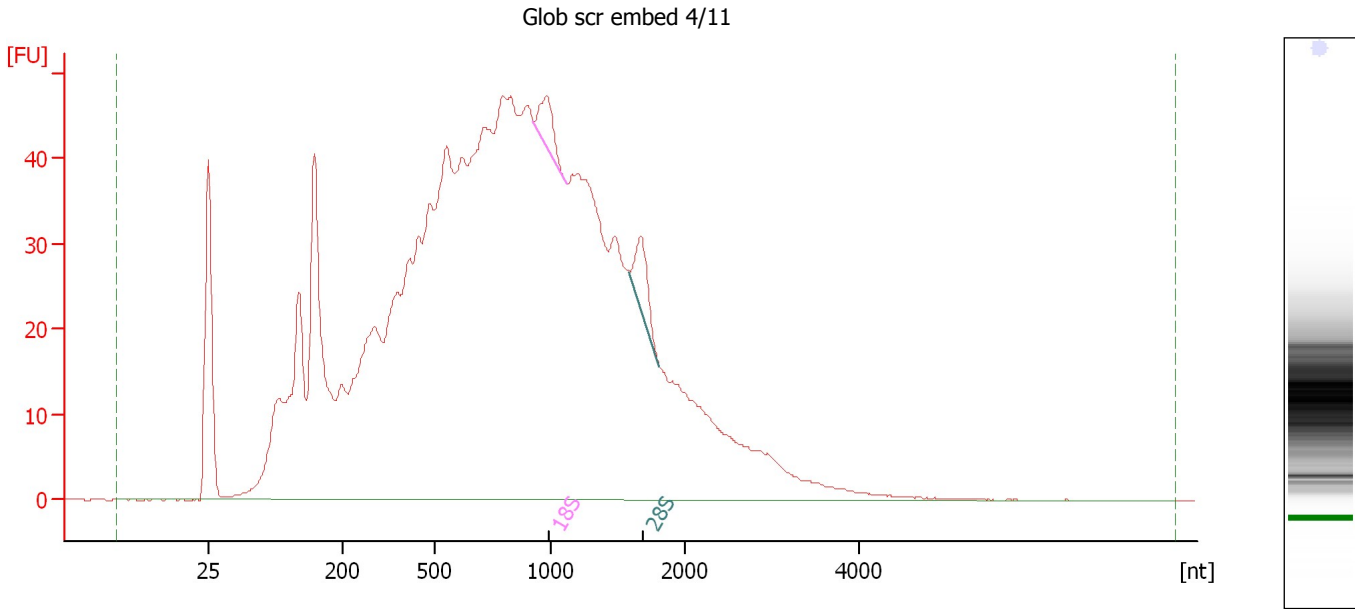
Fragment table for sample 1 : MM WS control

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,563	1,897	97.3	24.8
28S	2,674	3,331	86.2	21.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Glob scr embed 4/11

RNA Area: 1,642.8 RNA Integrity Number (RIN): 2.6 (B.02.08)
RNA Concentration: 9,238 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 2.60

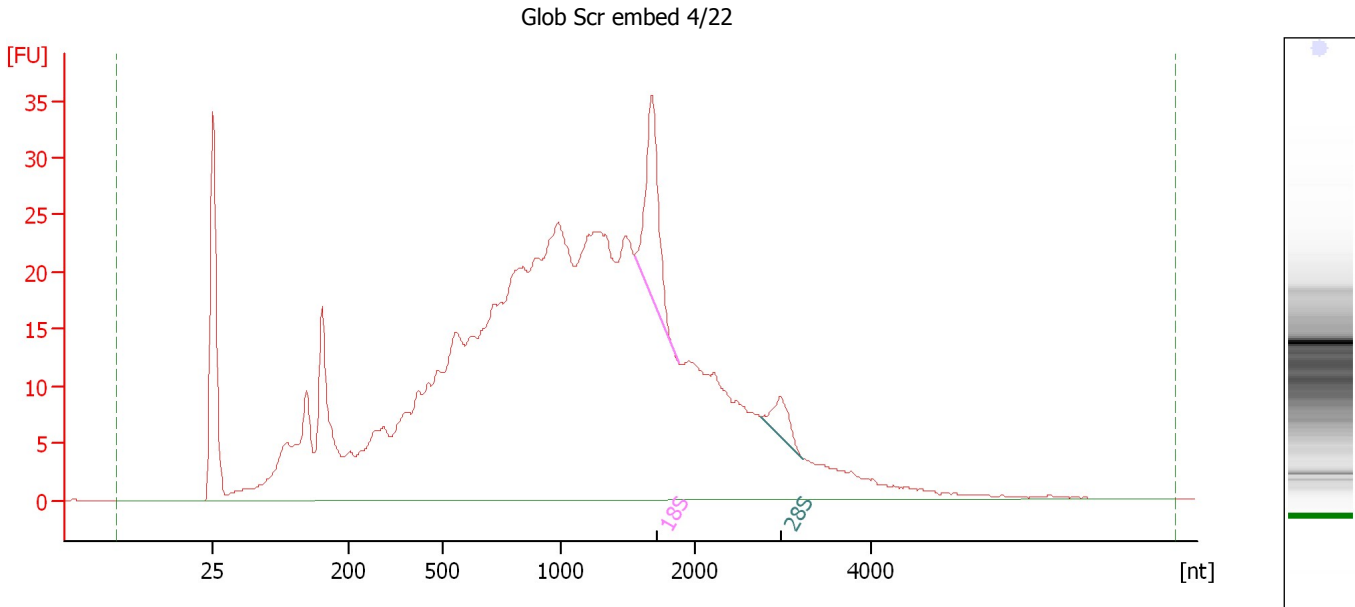
Fragment table for sample 2 : Glob scr embed 4/11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	922	1,114	10.7	0.6
28S	1,588	1,813	11.9	0.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Glob Scr embed 4/22

RNA Area: 856.4 RNA Integrity Number (RIN): 3.6 (B.02.08)
RNA Concentration: 4,816 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 3.60

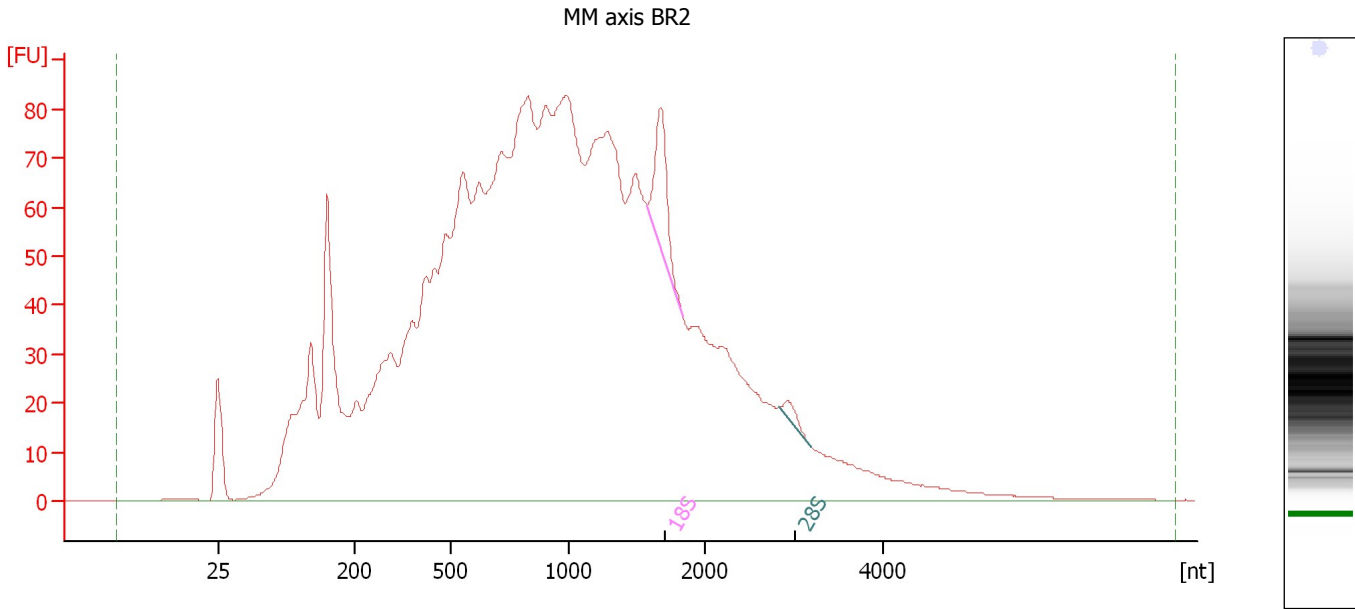
Fragment table for sample 3 : Glob Scr embed 4/22

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,547	1,873	28.0	3.3
28S	2,751	3,223	6.0	0.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
 Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MM axis BR2

RNA Area:	3,016.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	16,962 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.60

Fragment table for sample 4 : MM axis BR2

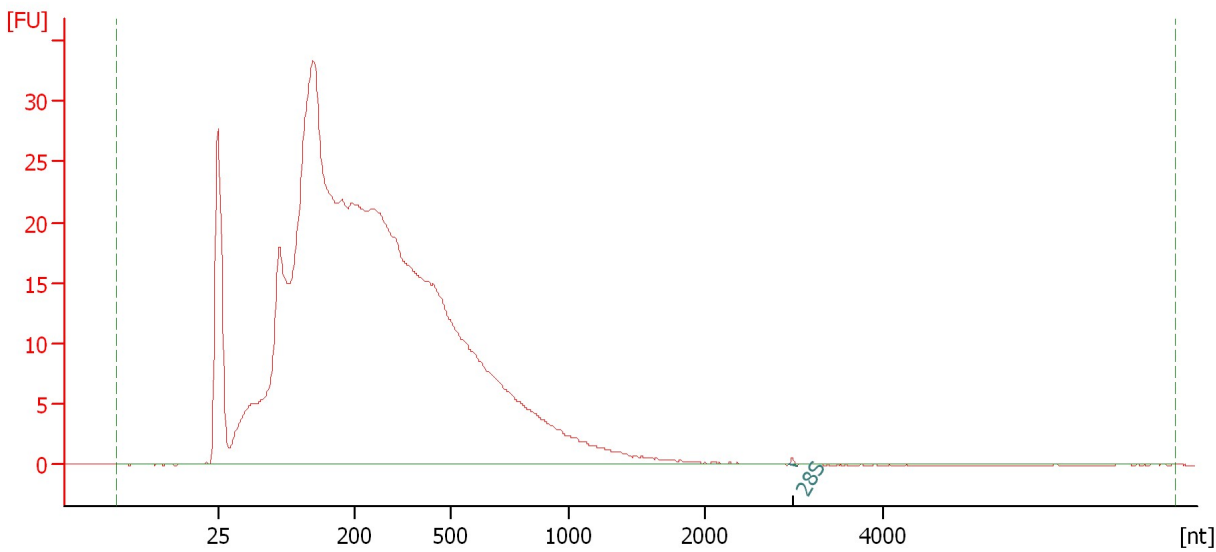
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,570	1,829	40.2	1.3
28S	2,819	3,178	5.7	0.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...

WTA Glob OI-2



Overall Results for sample 5 : WTA Glob OI-2

RNA Area:	677.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	3,808 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Fragment table for sample 5 : WTA Glob OI-2

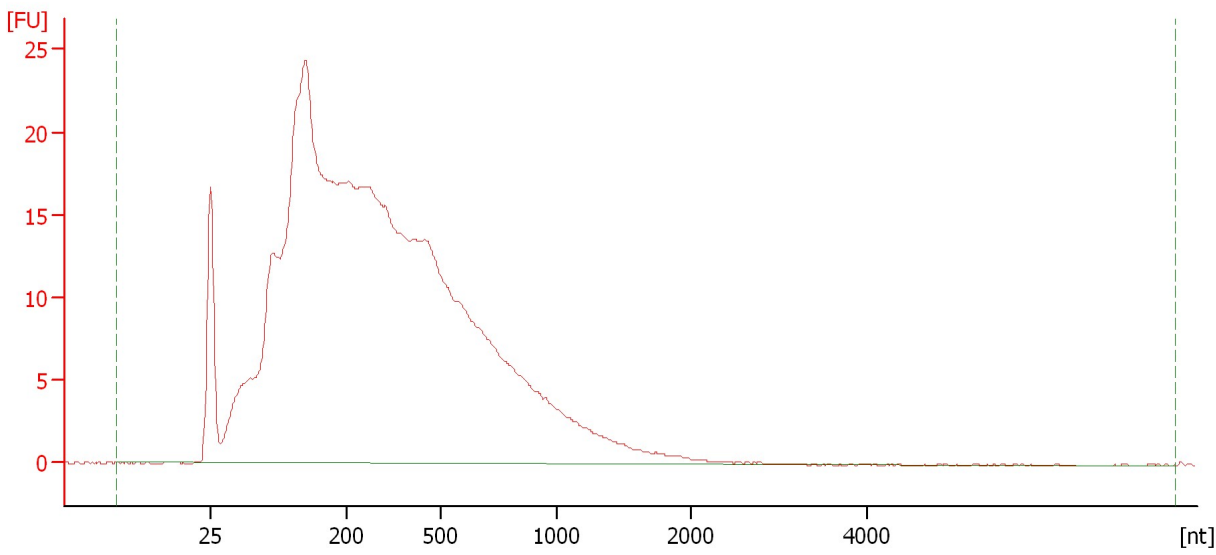
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,939	3,035	0.2	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...

WTA HRT ENT-3



Overall Results for sample 6 : WTA HRT ENT-3

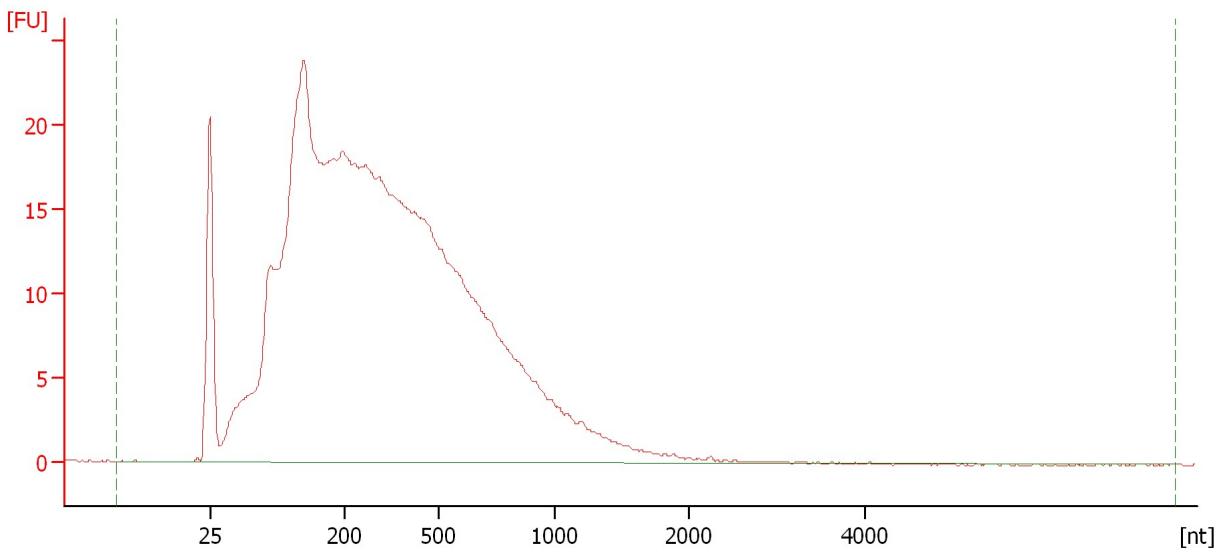
RNA Area:	586.6	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	3,299 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...

WTA HRT ENT-2



Overall Results for sample 7 : WTA HRT ENT-2

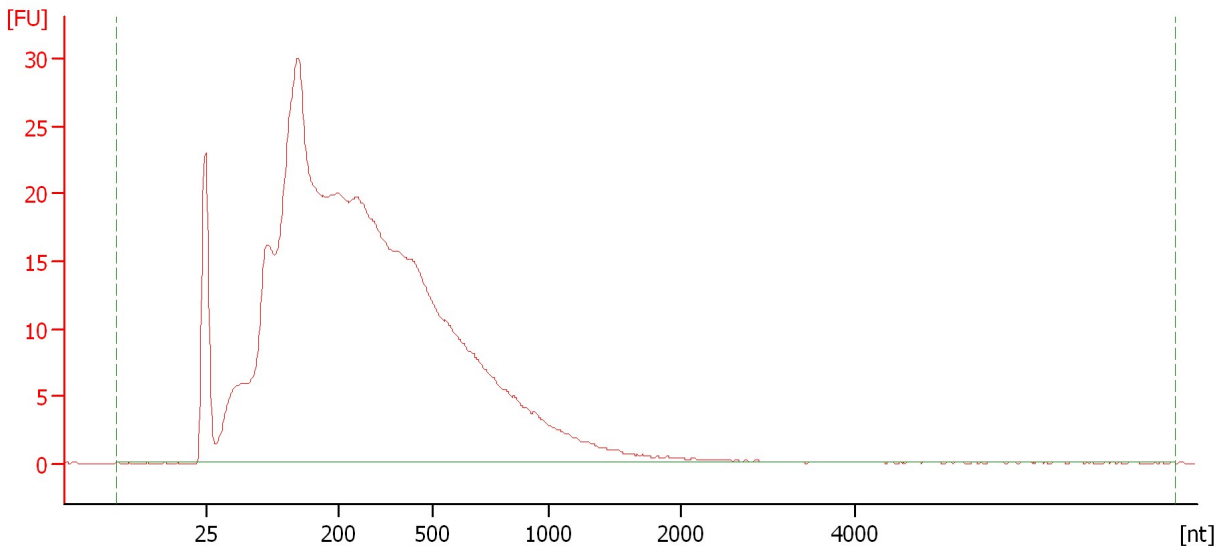
RNA Area:	609.1	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	3,425 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...

WTA HRT EPD-3



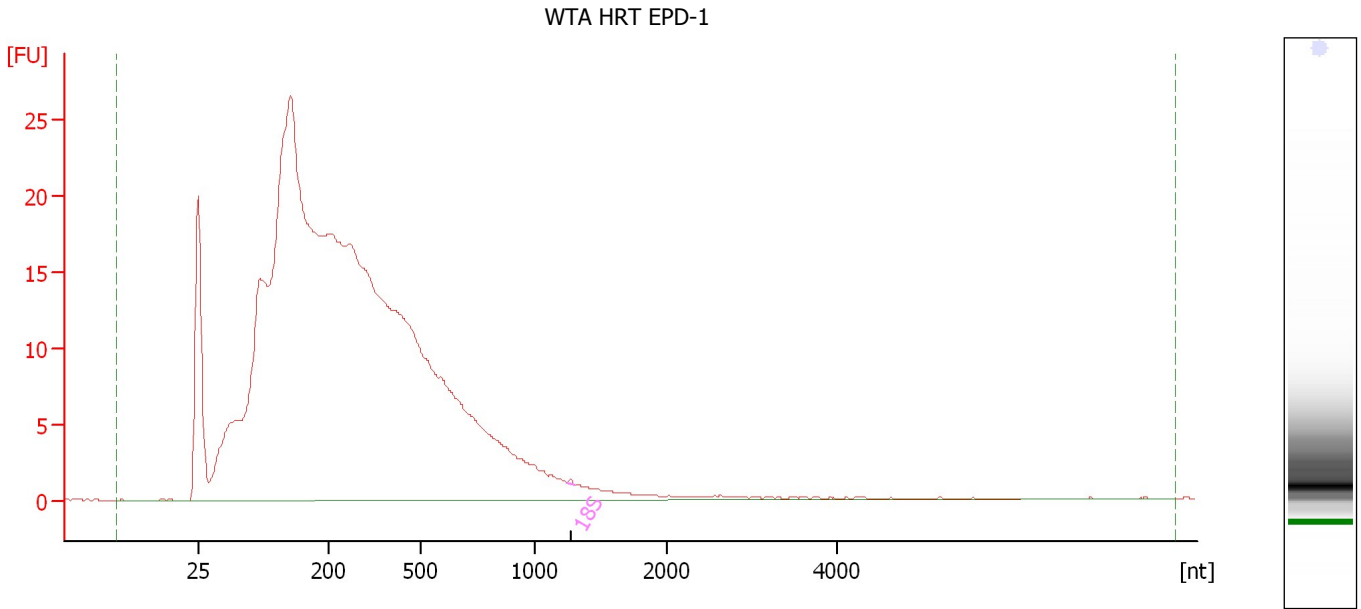
Overall Results for sample 8 : WTA HRT EPD-3

RNA Area:	662.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	3,725 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WTA HRT EPD-1

RNA Area: 562.4 RNA Integrity Number (RIN): 2.2 (B.02.08)
RNA Concentration: 3,163 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.20

Fragment table for sample 9 : WTA HRT EPD-1

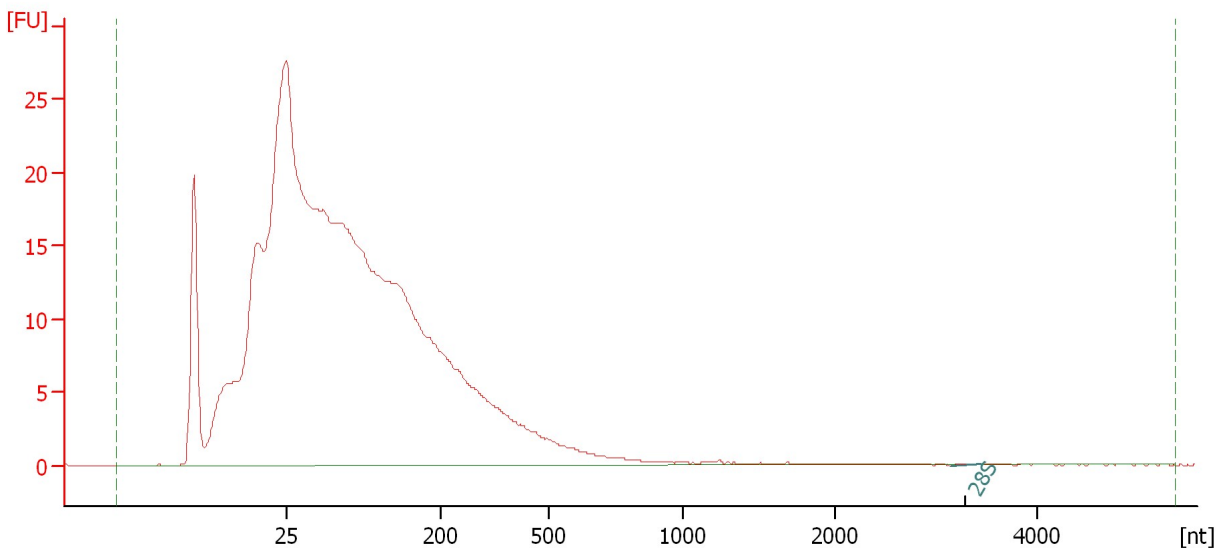
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,239	1,305	0.1	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...

WTA HRT OI-3



Overall Results for sample 10 : WTA HRT OI-3

RNA Area:	430.3	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	2,420 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Fragment table for sample 10 : WTA HRT OI-3

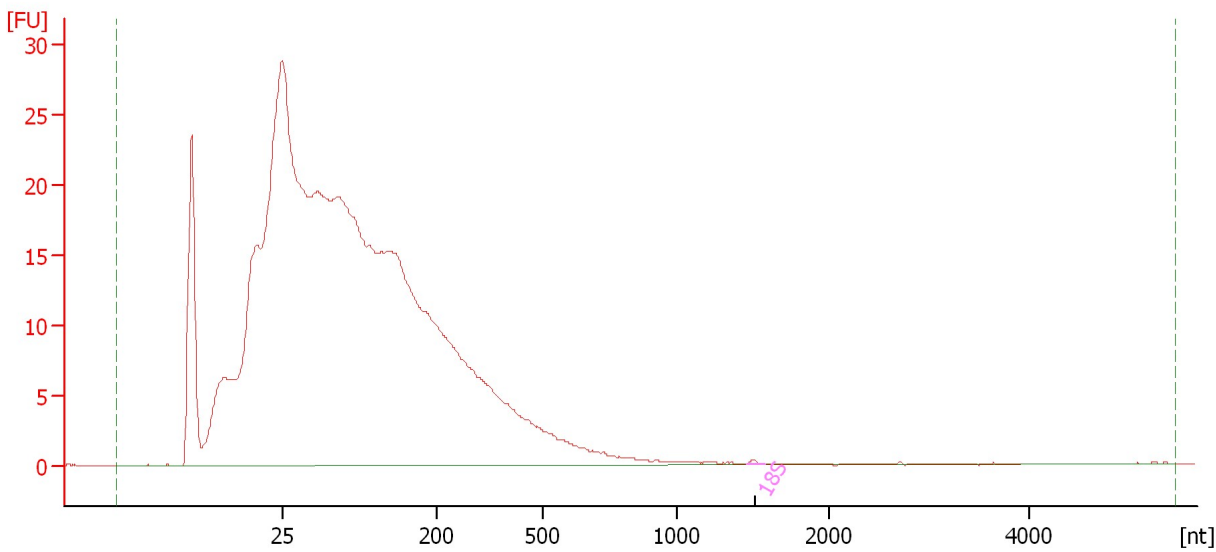
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	3,147	3,433	0.1	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Electropherogram Summary Continued ...

WTA HRT OI-2



Overall Results for sample 11 : WTA HRT OI-2

RNA Area:	430.9	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	2,423 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

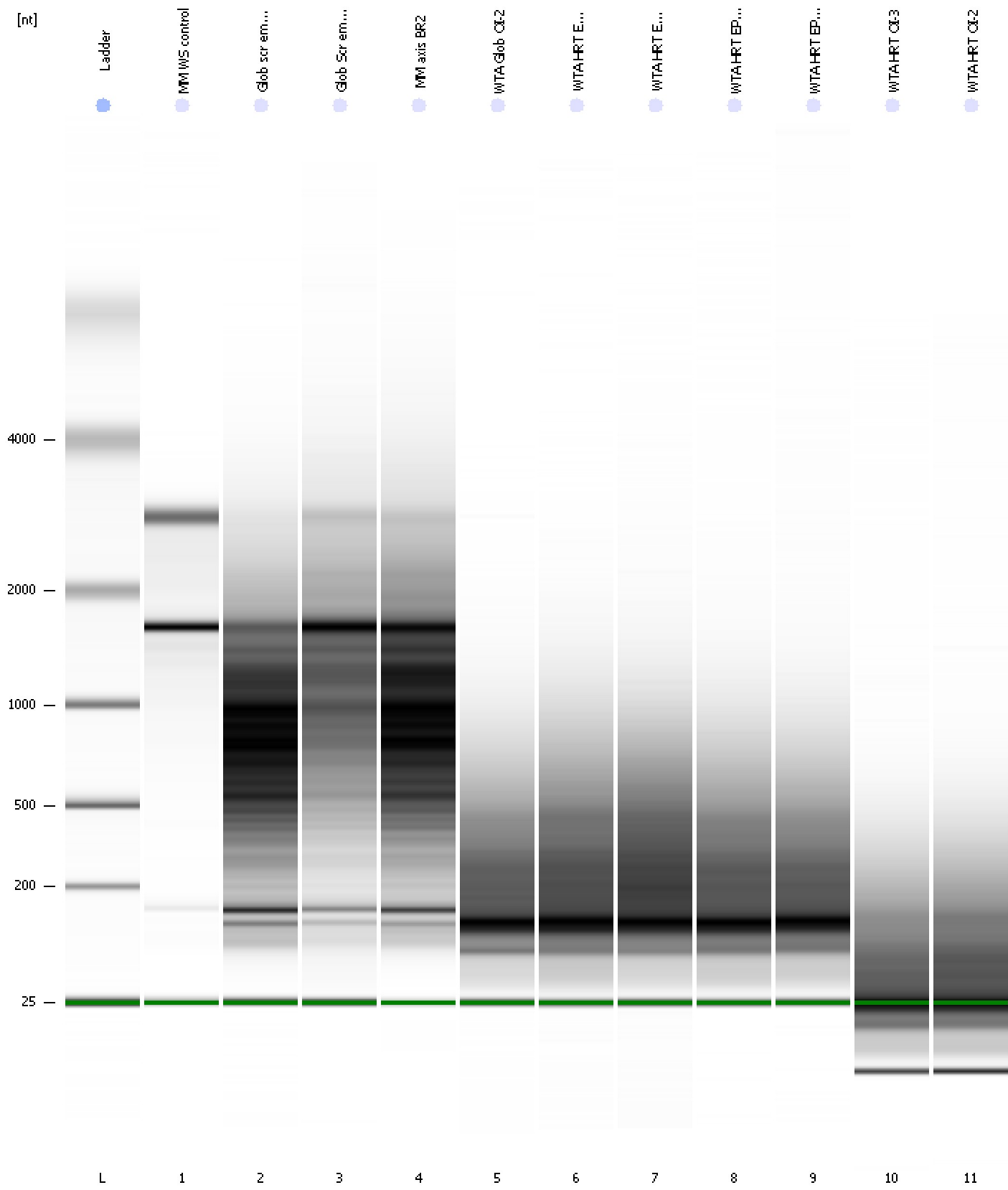
Fragment table for sample 11 : WTA HRT OI-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,460	1,572	0.2	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
Modified: 4/23/2013 4:05:58 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad

Created: 4/23/2013 3:34:22 PM
 Modified: 4/23/2013 4:05:58 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		4/23/2013 3:57:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-23\2013-04-23_004.xad)		Instrument	Run		4/23/2013 3:34:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/23/2013 3:34:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/23/2013 3:34:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/23/2013 3:34:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/23/2013 3:34:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/23/2013 3:34:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/23/2013 3:34:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1