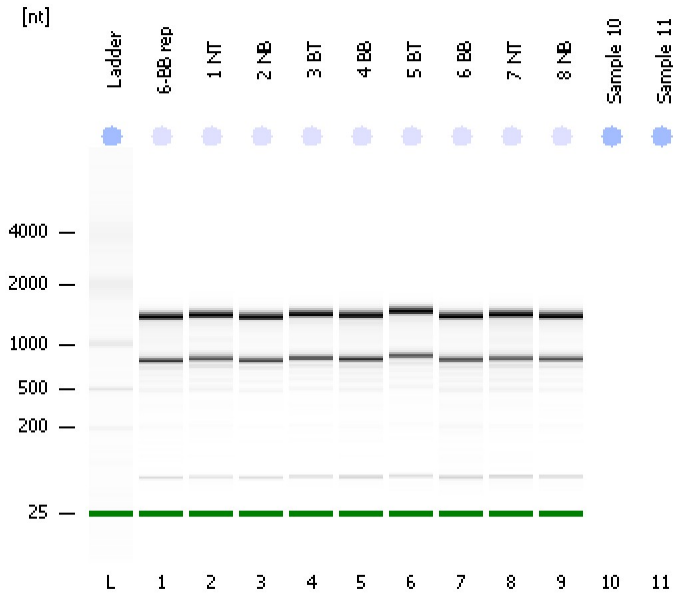


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
 Modified: 4/23/2015 1:22:32 PM

Electrophoresis File Run Summary



Instrument Information:

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

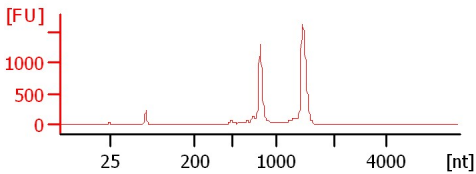
Assay Information:

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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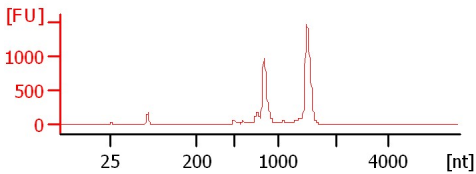
Chip Information:

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

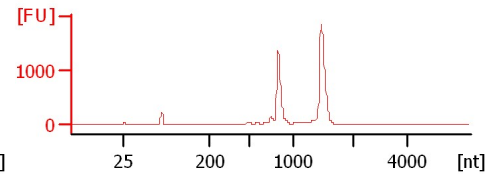
6-BB rep
 RIN: 9.40



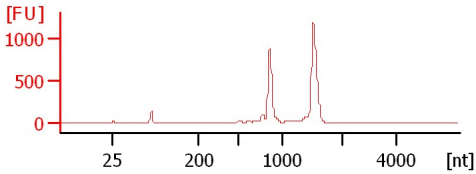
1 NT
 RIN: 9.40



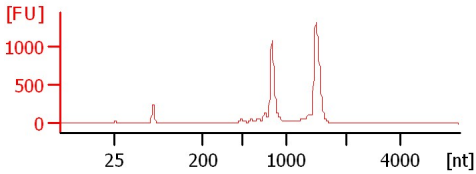
2 NB
 RIN: 9.90



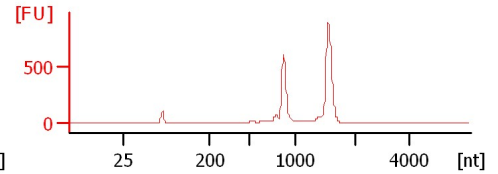
3 BT
 RIN: 9.70



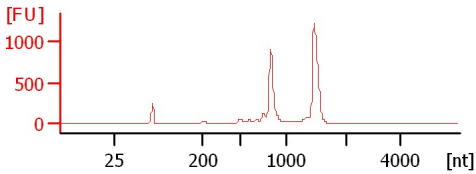
4 BB
 RIN: 9.40



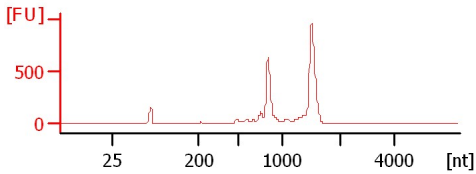
5 BT
 RIN: 9.60



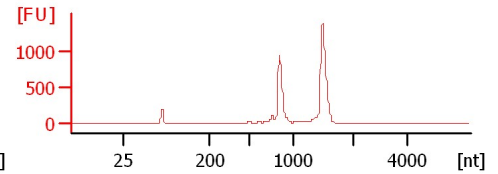
6 BB
 RIN: 9.20



7 NT
 RIN: 9.10



8 NB
 RIN: 9.80



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
6-BB rep		✓	RIN: 9.40	
1 NT		✓	RIN: 9.40	
2 NB		✓	RIN: 9.90	
3 BT		✓	RIN: 9.70	
4 BB		✓	RIN: 9.40	
5 BT		✓	RIN: 9.60	
6 BB		✓	RIN: 9.20	
7 NT		✓	RIN: 9.10	
8 NB		✓	RIN: 9.80	
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 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

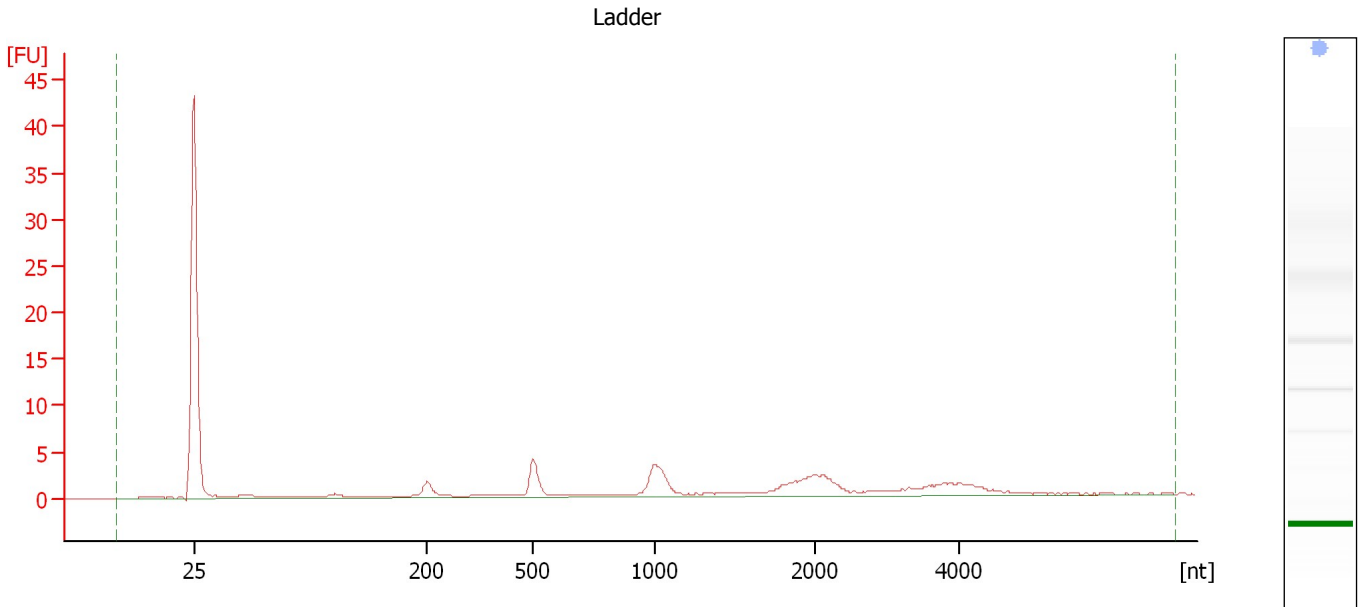
Ladder

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\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary



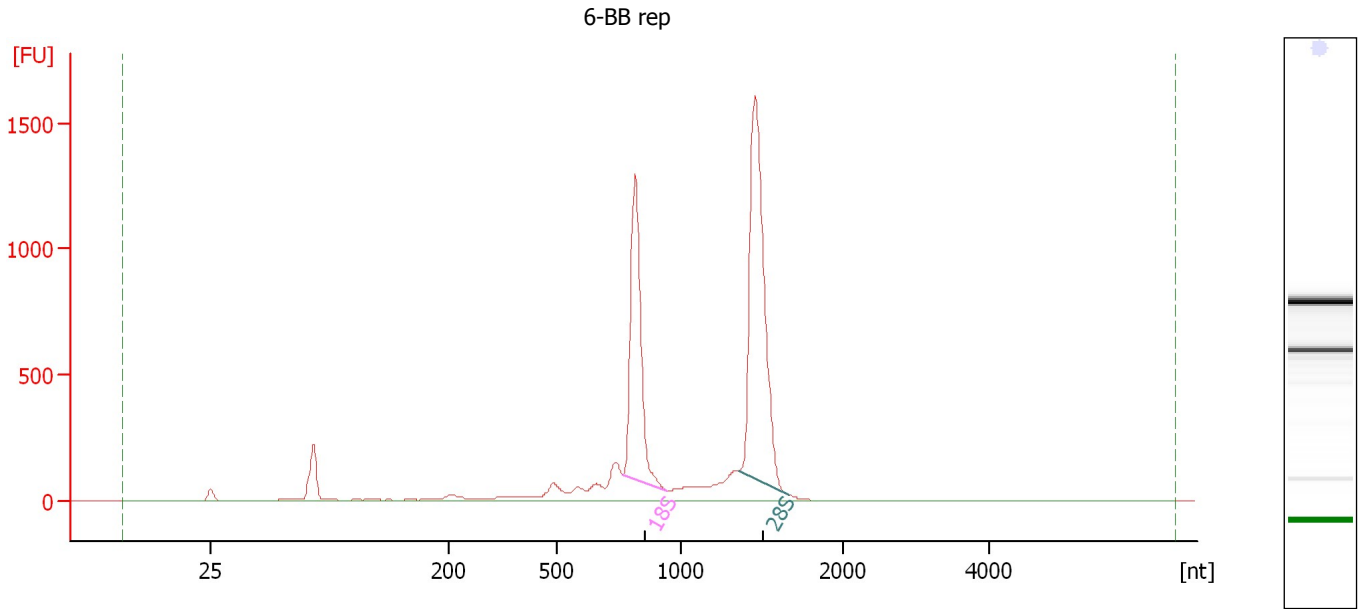
Overall Results for Ladder

RNA Area:	45.2	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\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 6-BB rep

RNA Area: 6,309.9 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 139,612 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.40

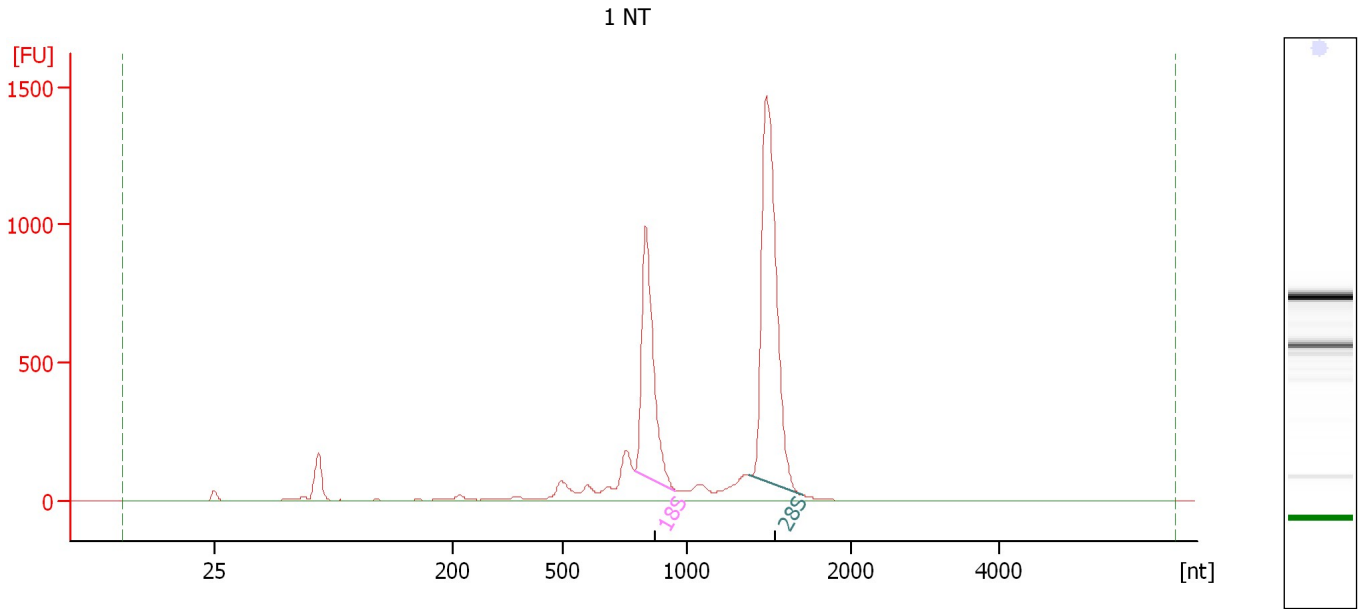
Fragment table for sample 1 : 6-BB rep

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	769	947	1,499.6	23.8
28S	1,356	1,662	2,366.1	37.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1 NT

RNA Area:	5,668.9	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	125,430 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.40

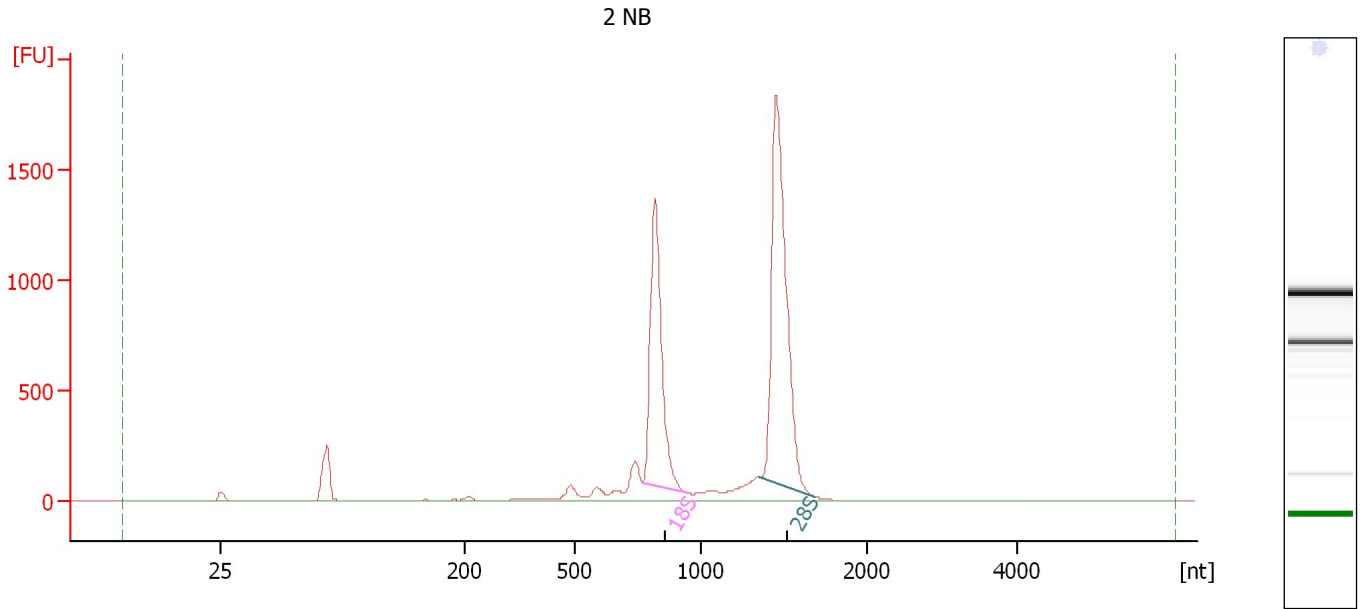
Fragment table for sample 2 : 1 NT

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	793	956	1,276.2	22.5
28S	1,387	1,711	2,223.2	39.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 2 NB

RNA Area:	6,644.5	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	147,016 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.90

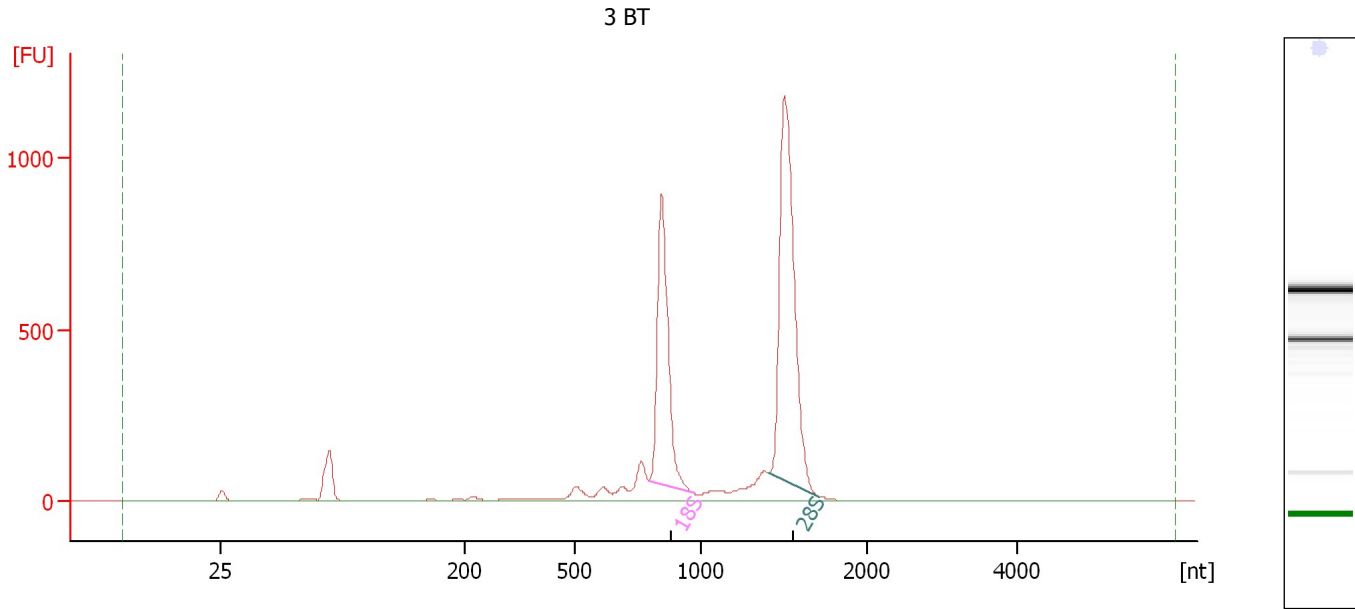
Fragment table for sample 3 : 2 NB

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	768	955	1,762.8	26.5
28S	1,353	1,691	2,754.9	41.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 3 BT

RNA Area: 4,327.3 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 95,746 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.70

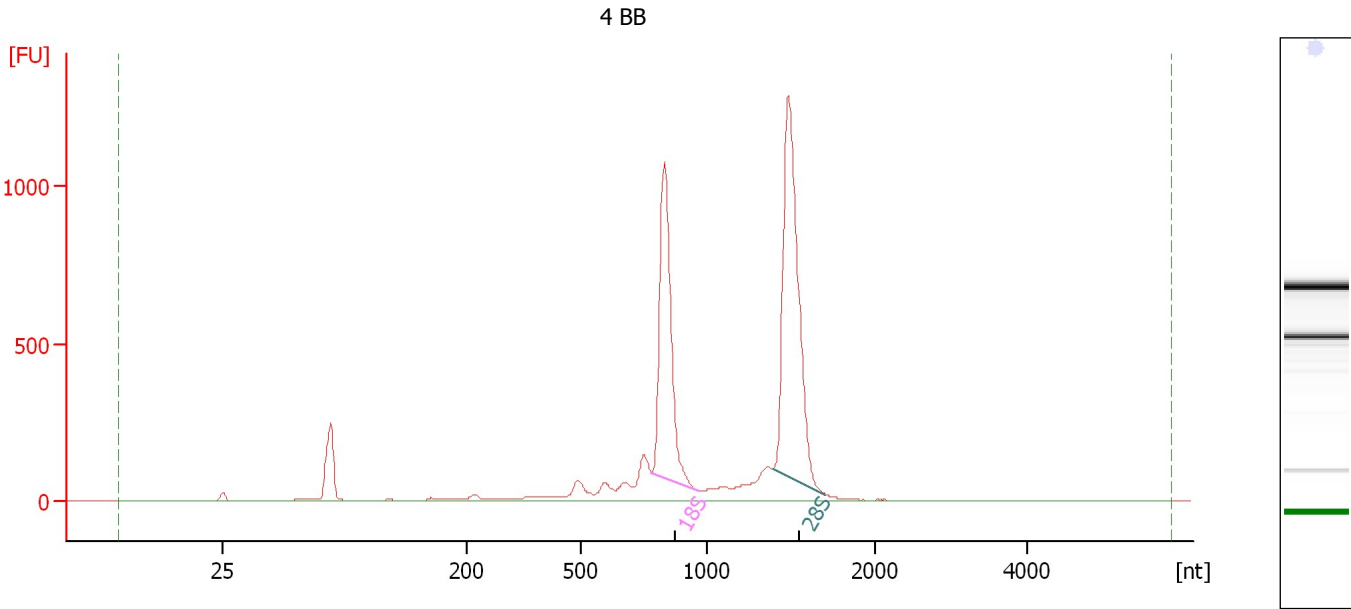
Fragment table for sample 4 : 3 BT

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	798	976	1,098.2	25.4
28S	1,410	1,710	1,728.3	39.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 4 BB

RNA Area:	5,454.8	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	120,693 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.40

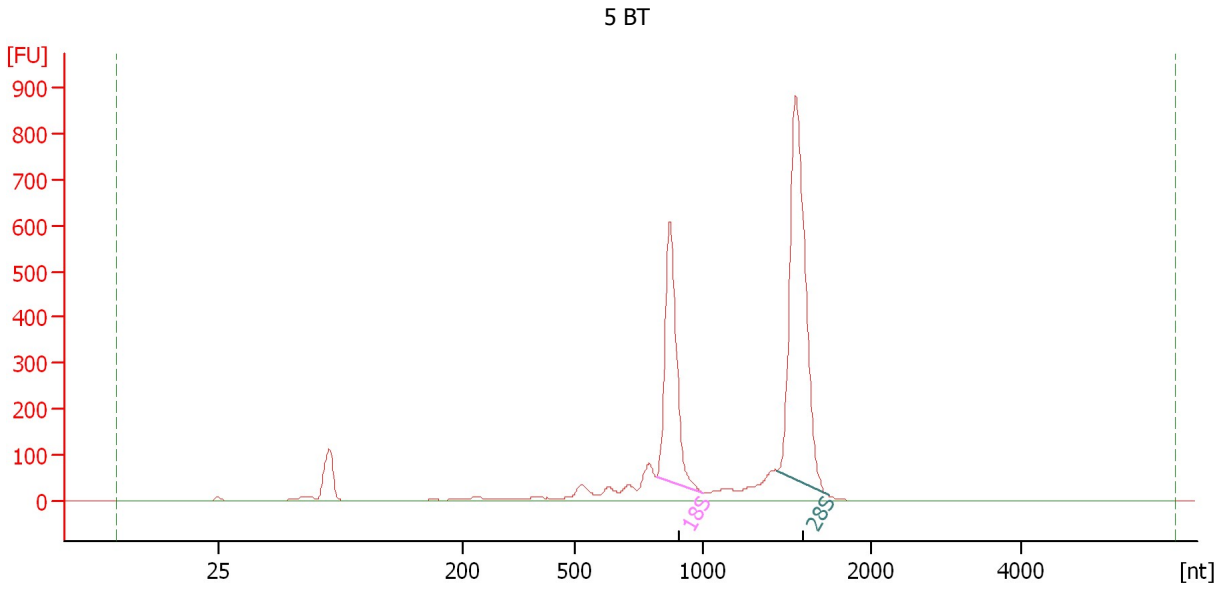
Fragment table for sample 5 : 4 BB

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	781	965	1,339.6	24.6
28S	1,389	1,705	1,908.5	35.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 5 BT

RNA Area:	3,428.3	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	75,854 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.60

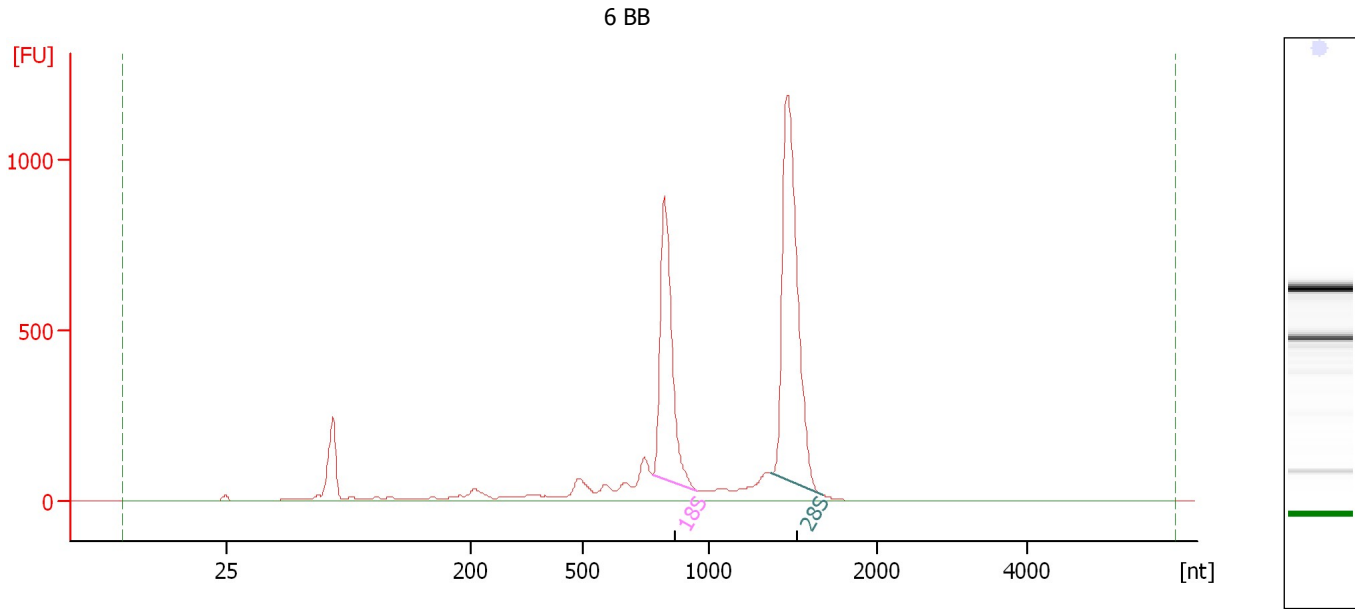
Fragment table for sample 6 : 5 BT

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	821	1,003	782.2	22.8
28S	1,447	1,752	1,361.4	39.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
 Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 6 BB

RNA Area:	5,055.5	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	111,858 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.20

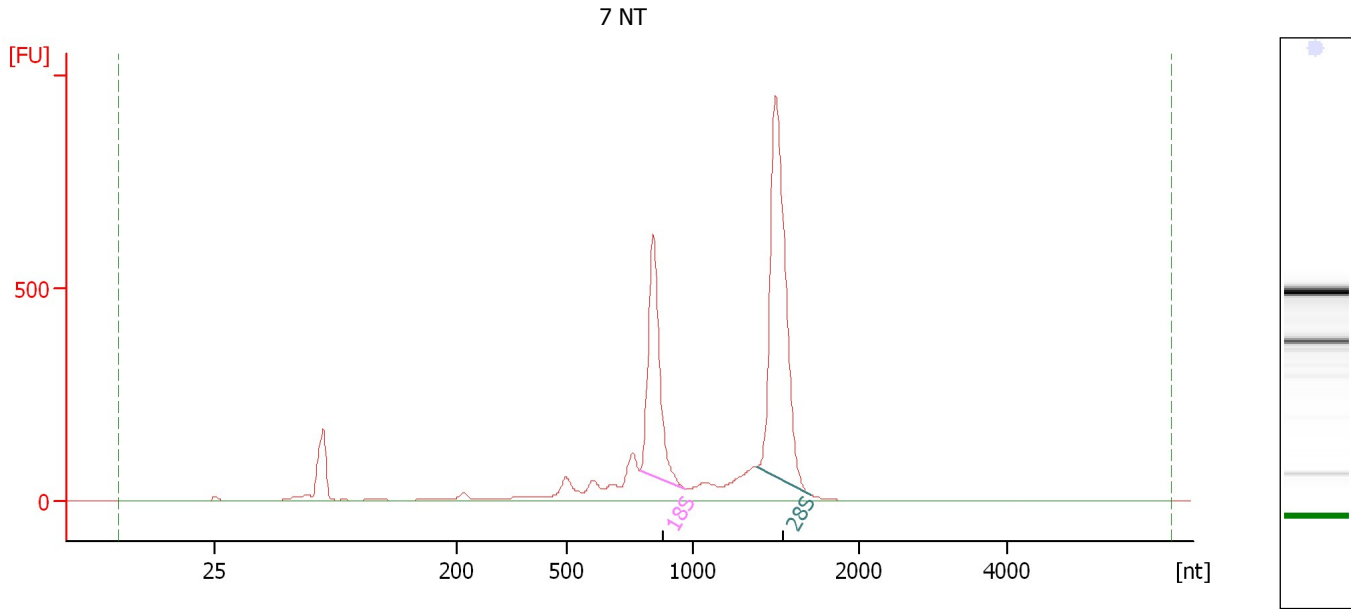
Fragment table for sample 7 : 6 BB

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	776	956	1,140.6	22.6
28S	1,371	1,680	1,776.2	35.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 7 NT

RNA Area:	4,048.2	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	89,570 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.10

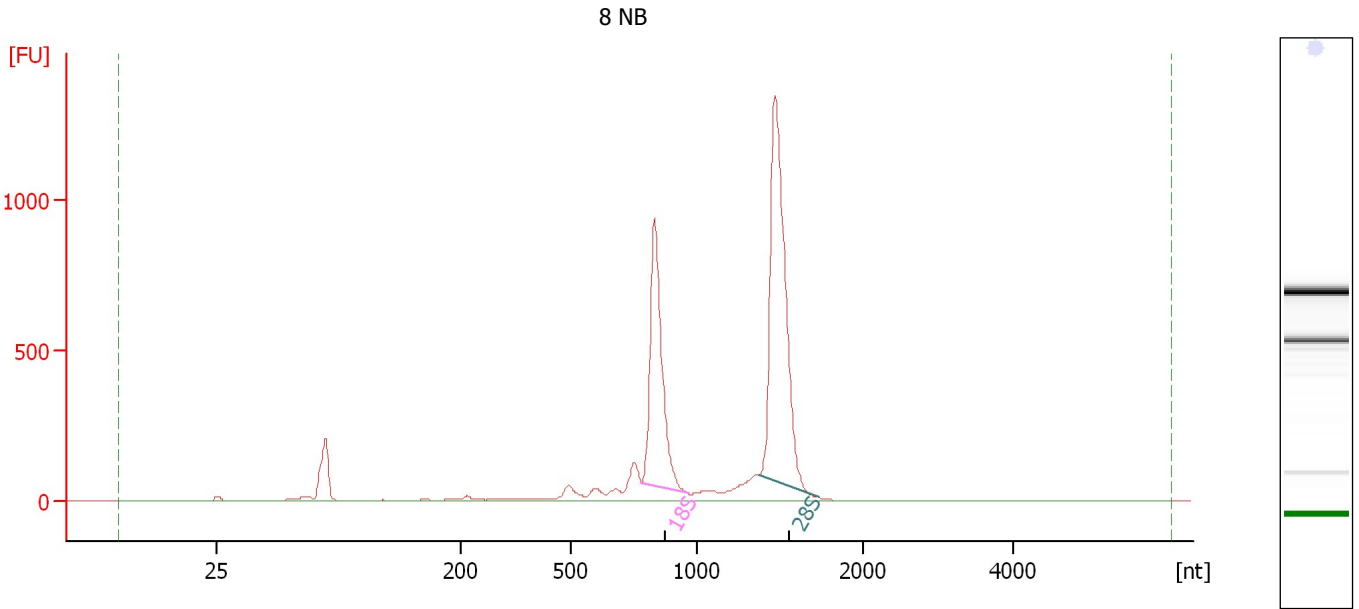
Fragment table for sample 8 : 7 NT

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	792	971	788.3	19.5
28S	1,392	1,712	1,469.6	36.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 8 NB

RNA Area:	5,090.6	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	112,635 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.80

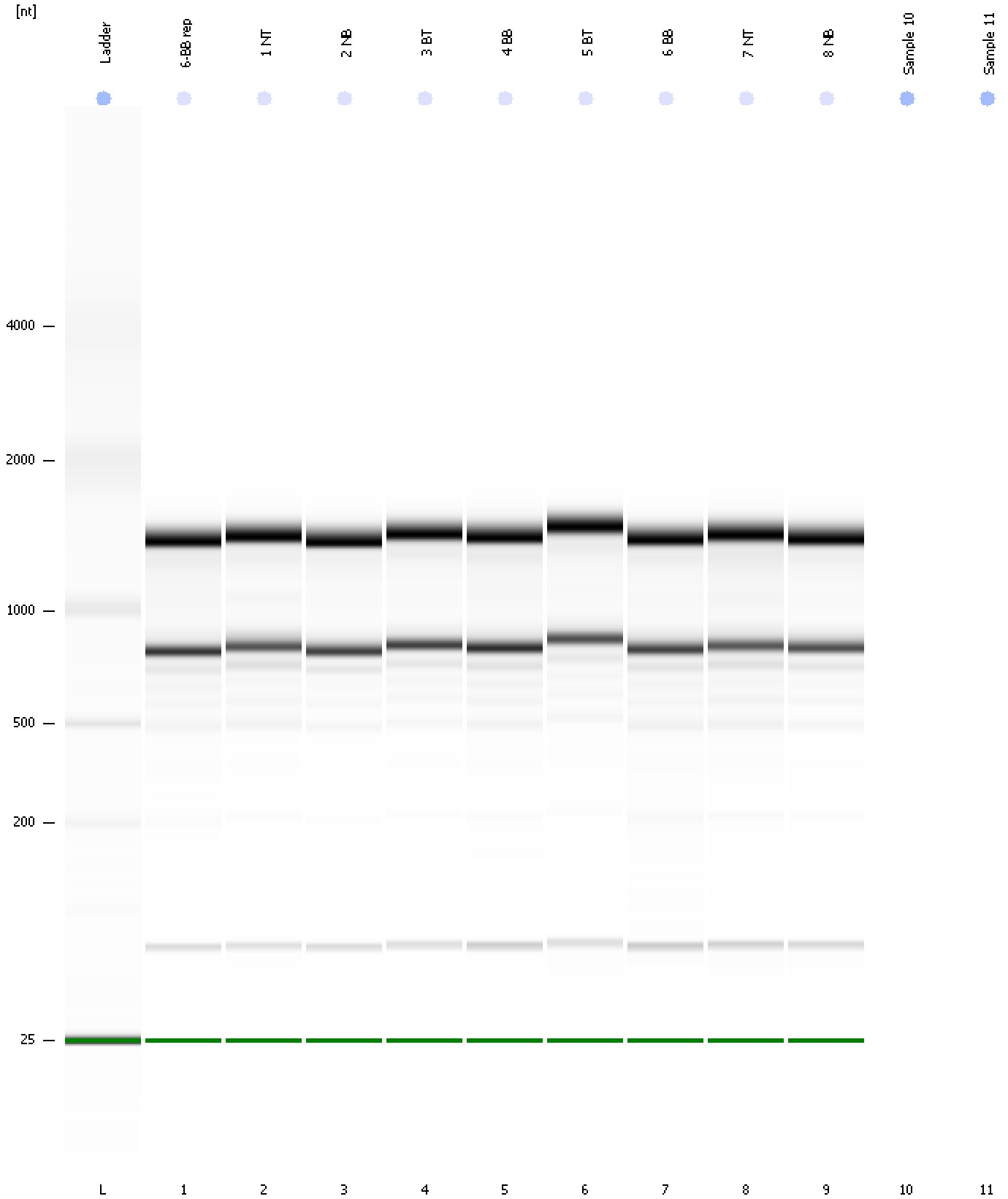
Fragment table for sample 9 : 8 NB

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	781	967	1,255.8	24.7
28S	1,372	1,729	2,076.2	40.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
Modified: 4/23/2015 1:22:32 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad

Created: 4/23/2015 1:02:26 PM
 Modified: 4/23/2015 1:22:32 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		4/23/2015 1:22:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-23\2015-04-23_005.xad)		Instrument	Run		4/23/2015 1:02:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/23/2015 1:02:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/23/2015 1:02:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/23/2015 1:02:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/23/2015 1:02:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/23/2015 1:02:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/23/2015 1:02:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1