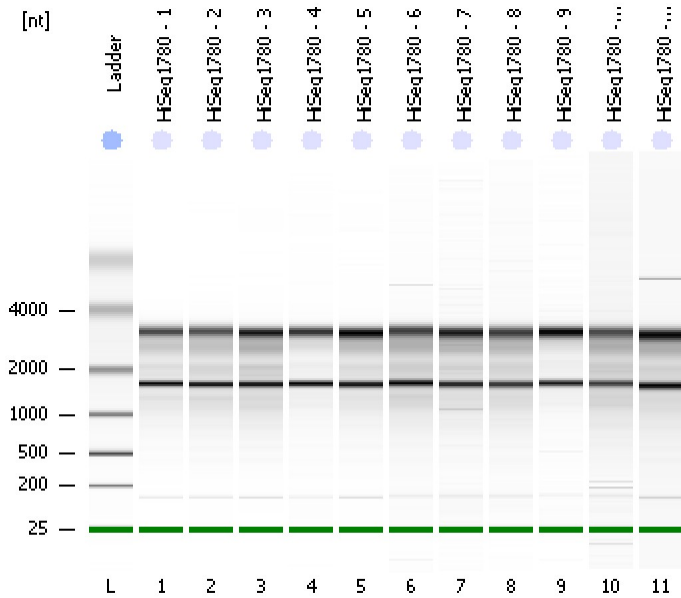


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

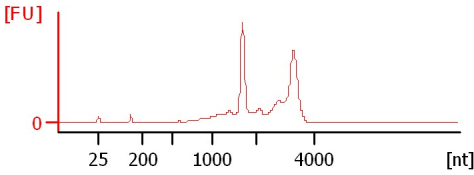
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

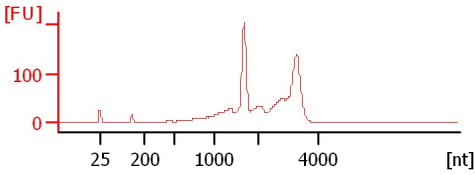
Chip Information:

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

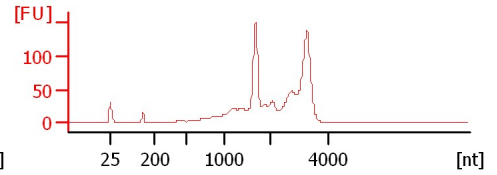
HiSeq1780 - 1
RIN: 8.80



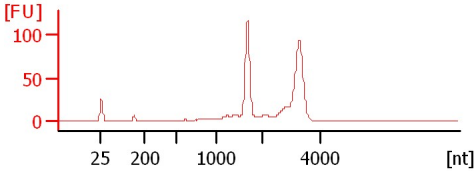
HiSeq1780 - 2
RIN: 8.40



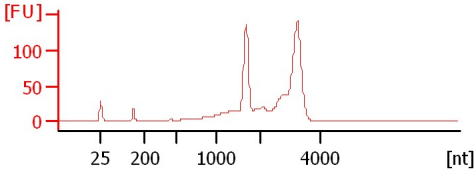
HiSeq1780 - 3
RIN: 7.80



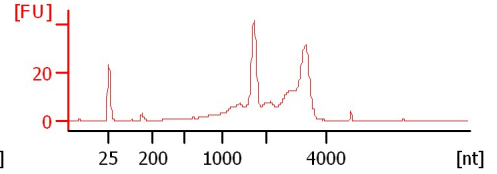
HiSeq1780 - 4
RIN: 9.50



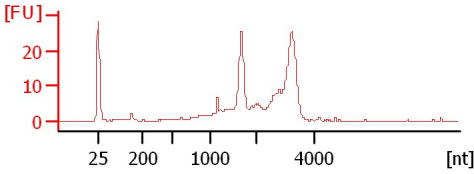
HiSeq1780 - 5
RIN: 9.10



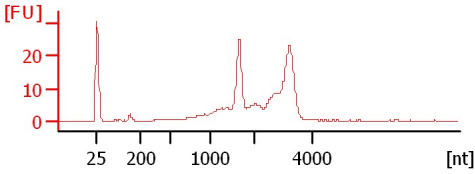
HiSeq1780 - 6
RIN: 7.90



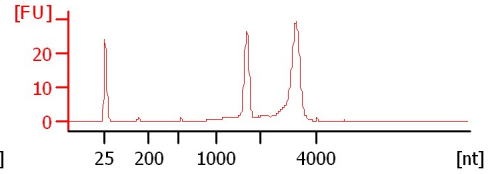
HiSeq1780 - 7
RIN: 8.70



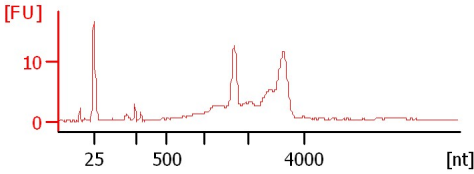
HiSeq1780 - 8
RIN: 8.20



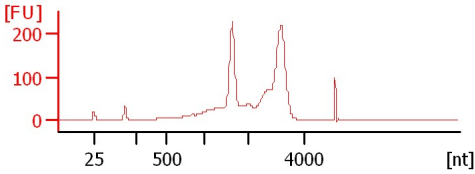
HiSeq1780 - 9
RIN: 10



HiSeq1780 - 10
RIN: 7.90



HiSeq1780 - 11
RIN: 9



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
 Modified: 4/19/2019 4:07:17 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
HiSeq1780 - 1		✓	RIN: 8.80	
HiSeq1780 - 2		✓	RIN: 8.40	
HiSeq1780 - 3		✓	RIN: 7.80	
HiSeq1780 - 4		✓	RIN: 9.50	
HiSeq1780 - 5		✓	RIN: 9.10	
HiSeq1780 - 6		✓	RIN: 7.90	
HiSeq1780 - 7		✓	RIN: 8.70	
HiSeq1780 - 8		✓	RIN: 8.20	
HiSeq1780 - 9		✓	RIN:10	
HiSeq1780 - 10		✓	RIN: 7.90	
HiSeq1780 - 11		✓	RIN:9	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 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

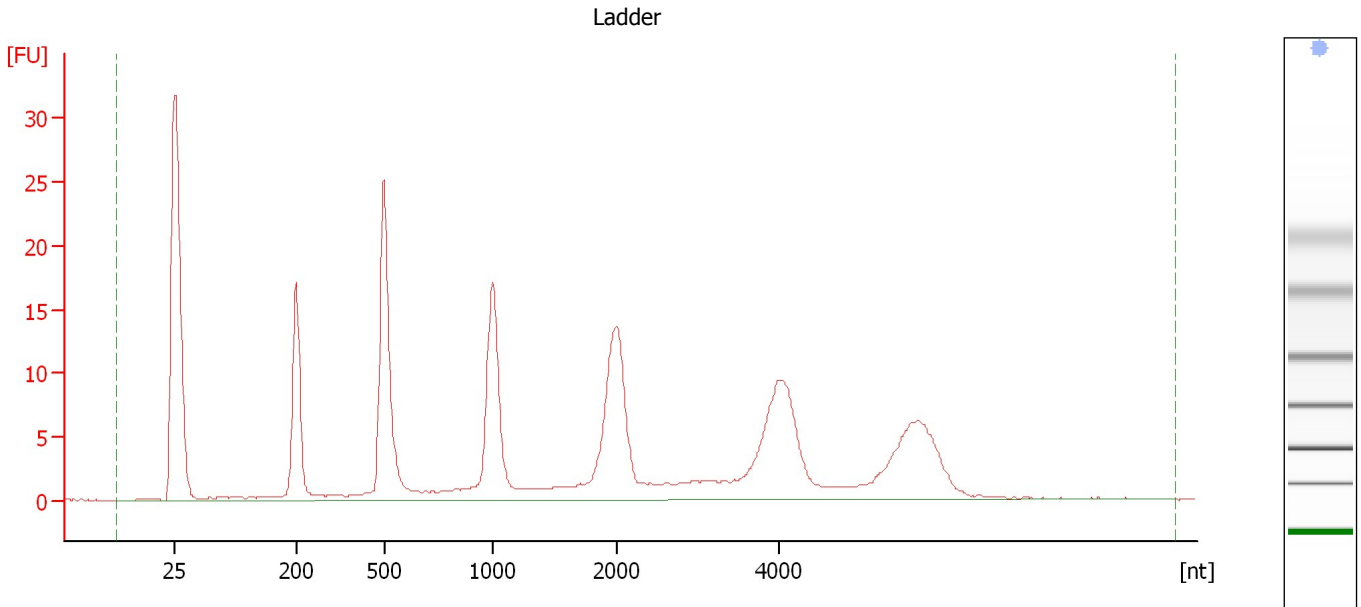
Ladder

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\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary



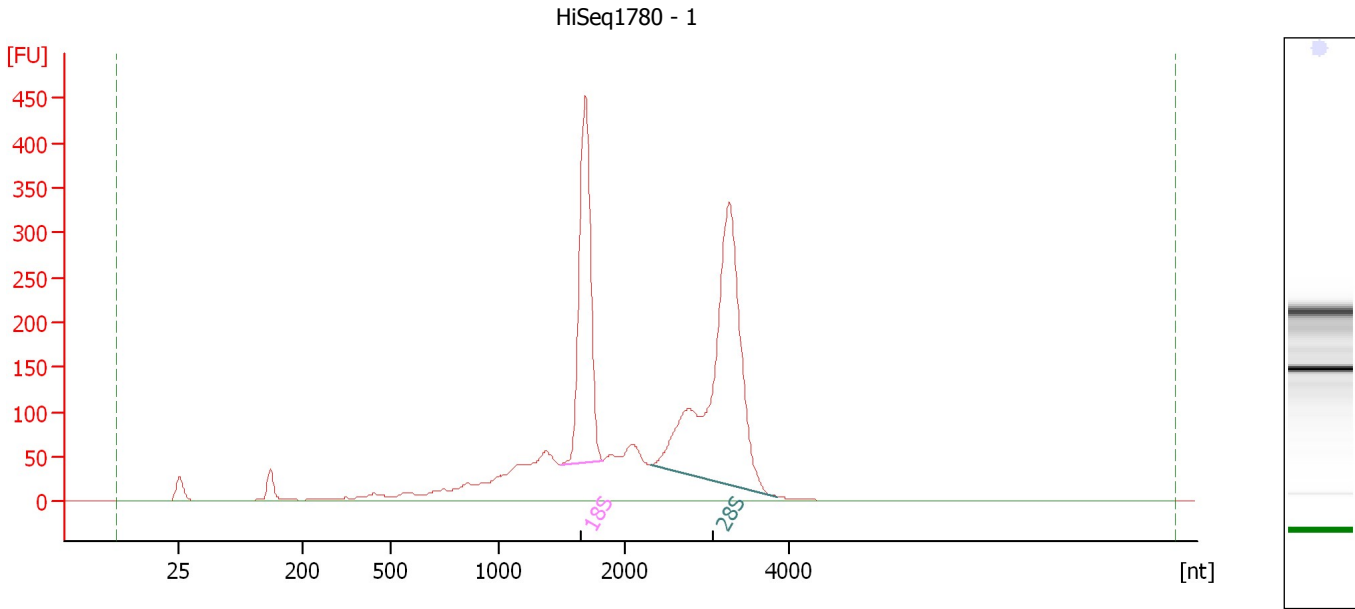
Overall Results for Ladder

RNA Area:	240.5	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\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HiSeq1780 - 1

RNA Area: 3,076.3 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 12,791 pg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 8.80

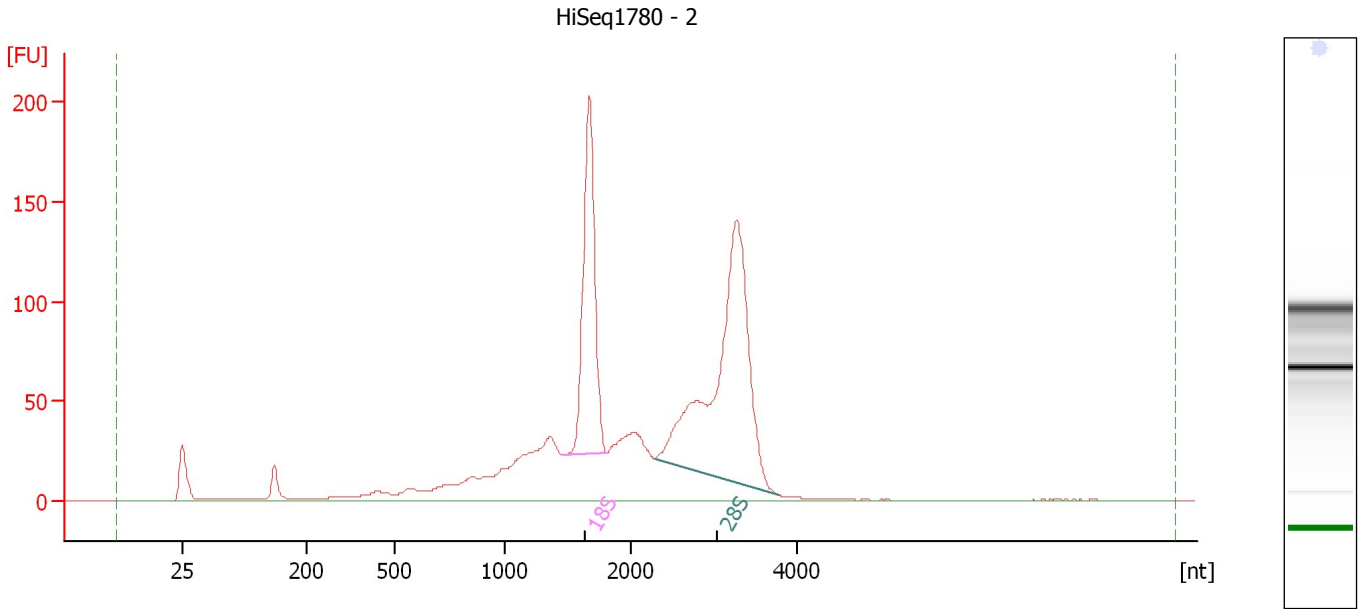
Fragment table for sample 1 : HiSeq1780 - 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,498	1,822	606.0	19.7
28S	2,314	3,856	1,067.1	34.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HiSeq1780 - 2

RNA Area: 1,560.9 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 6,490 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 8.40

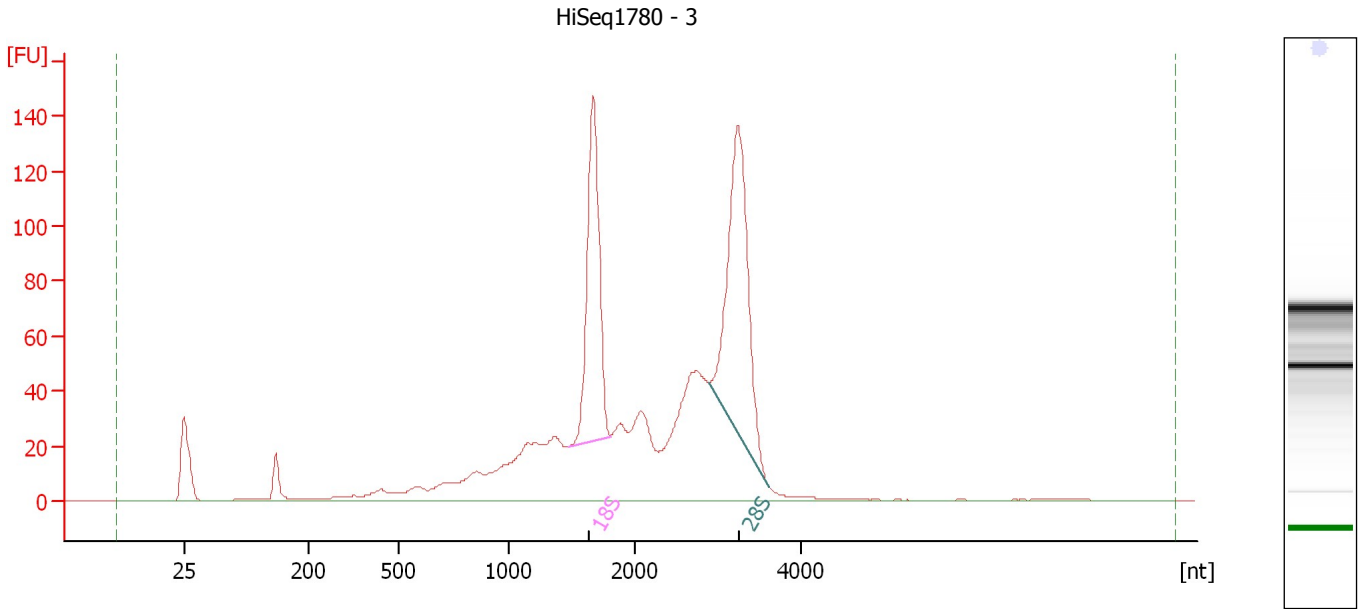
Fragment table for sample 2 : HiSeq1780 - 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,469	1,808	267.4	17.1
28S	2,289	3,782	496.1	31.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HiSeq1780 - 3

RNA Area: 1,323.7 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 5,504 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 7.80

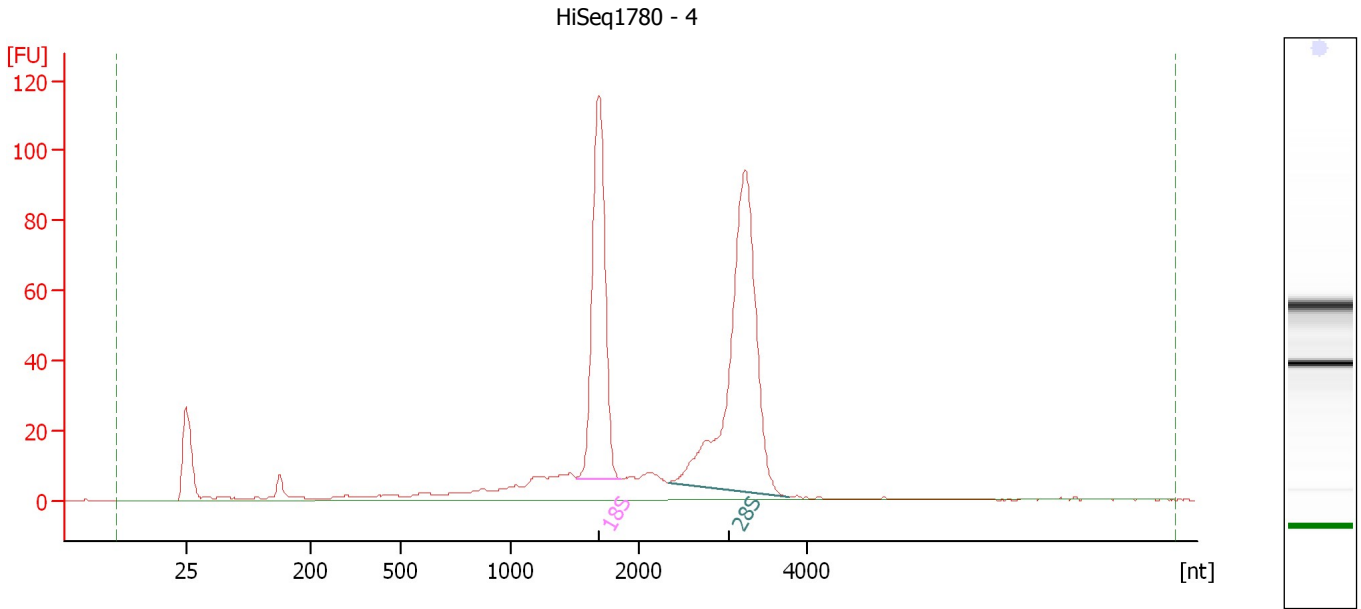
Fragment table for sample 3 : HiSeq1780 - 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,481	1,810	194.7	14.7
28S	2,892	3,609	248.0	18.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HiSeq1780 - 4

RNA Area:	682.6	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	2,838 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.50

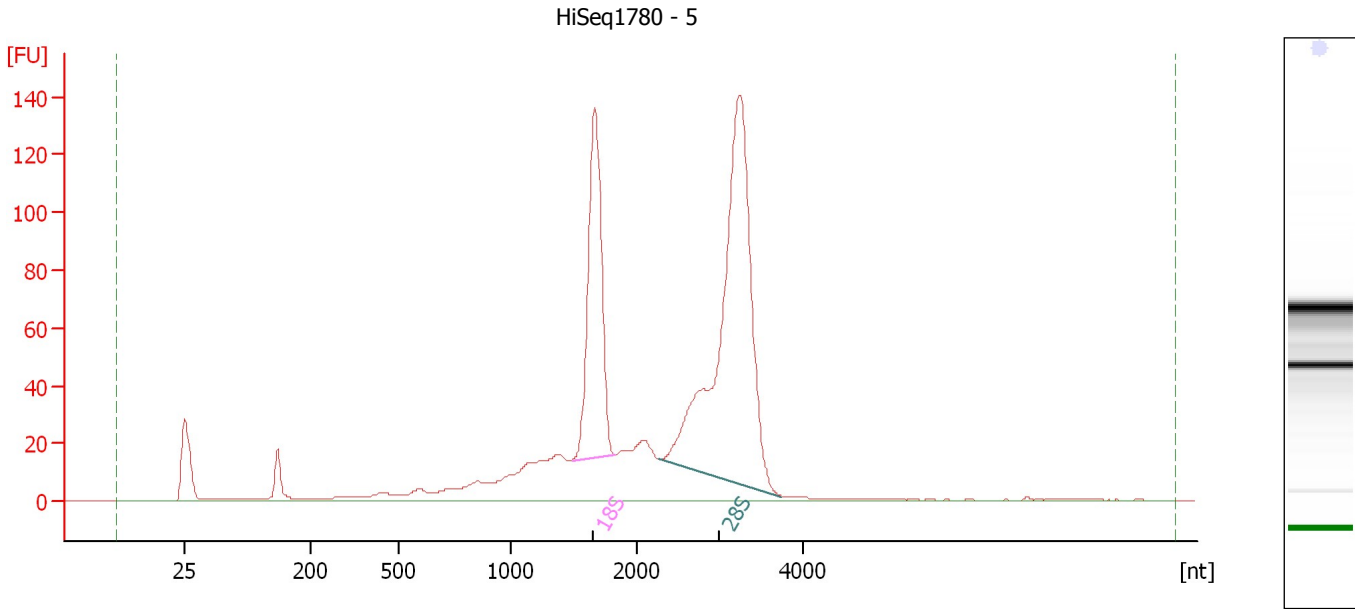
Fragment table for sample 4 : HiSeq1780 - 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,510	1,855	179.5	26.3
28S	2,354	3,782	273.2	40.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HiSeq1780 - 5

RNA Area: 1,158.9 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 4,819 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 9.10

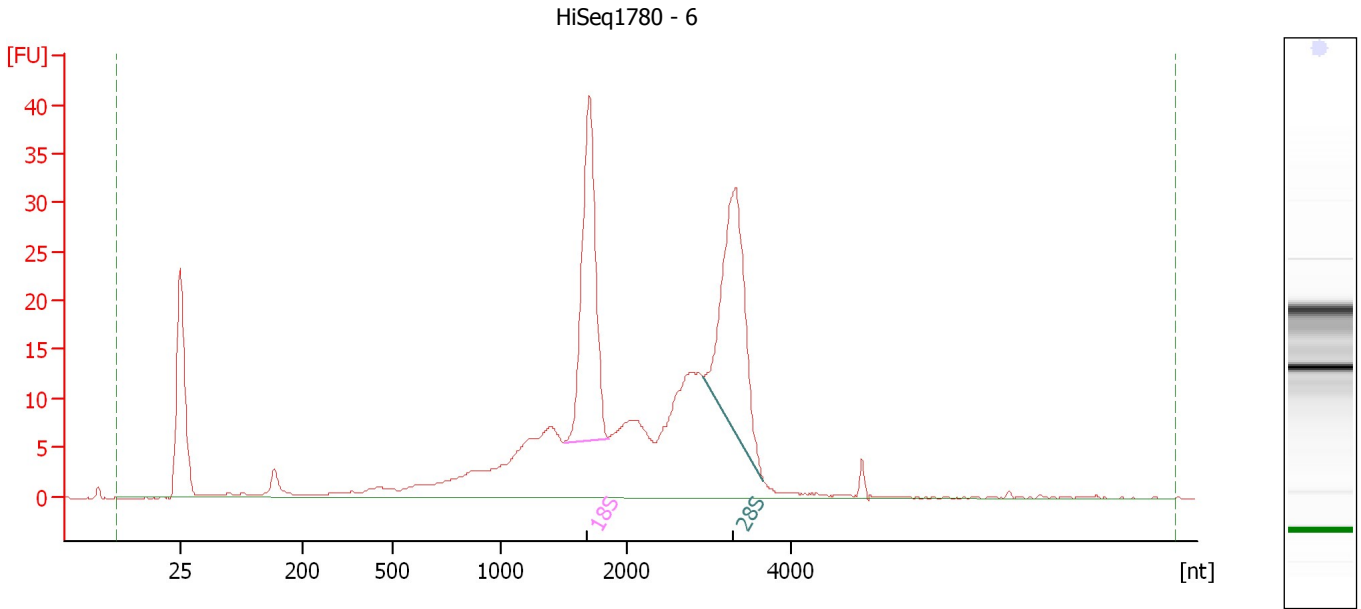
Fragment table for sample 5 : HiSeq1780 - 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,828	210.3	18.1
28S	2,277	3,734	461.7	39.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq1780 - 6

RNA Area:	378.7	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	1,574 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.90

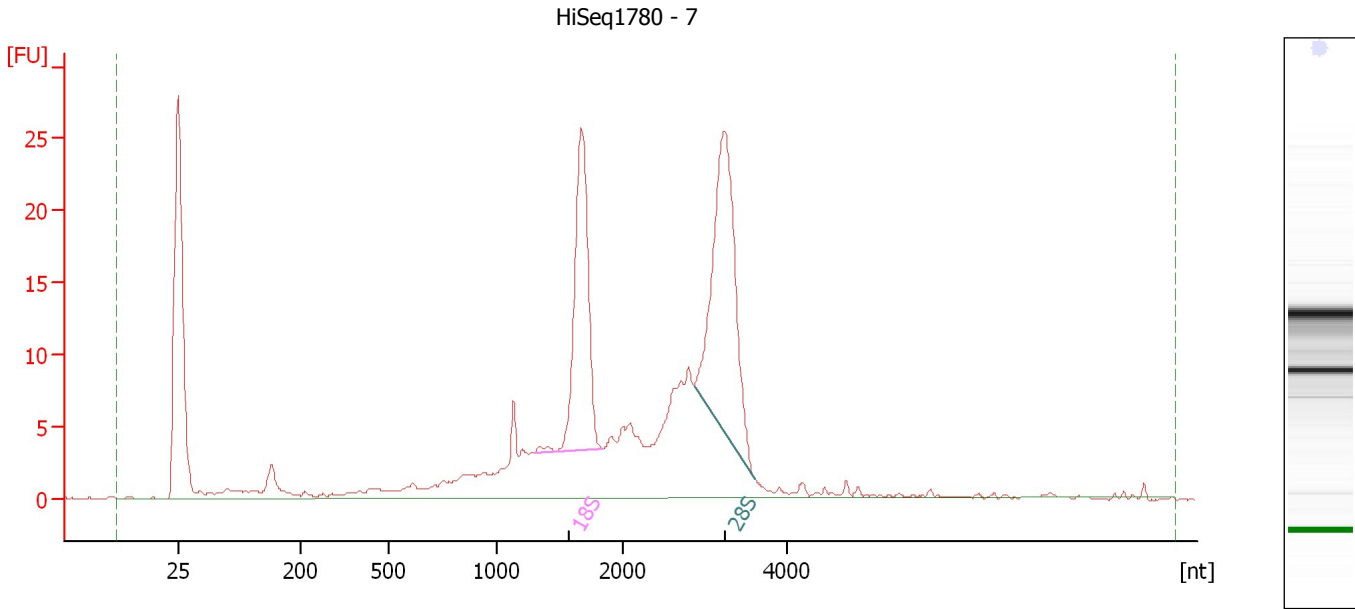
Fragment table for sample 6 : HiSeq1780 - 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,508	1,858	61.9	16.3
28S	2,935	3,659	62.0	16.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
 Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq1780 - 7

RNA Area:	250.0	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	1,039 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.70

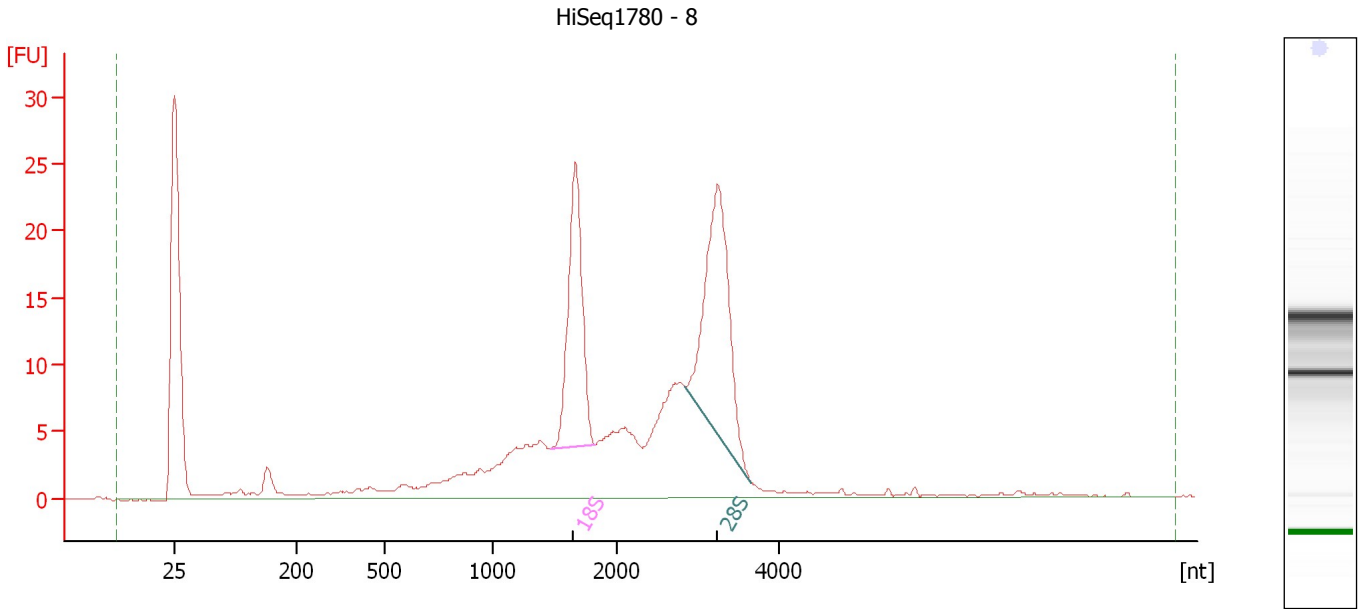
Fragment table for sample 7 : HiSeq1780 - 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,299	1,847	40.0	16.0
28S	2,872	3,612	53.6	21.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq1780 - 8

RNA Area:	266.1	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	1,106 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.20

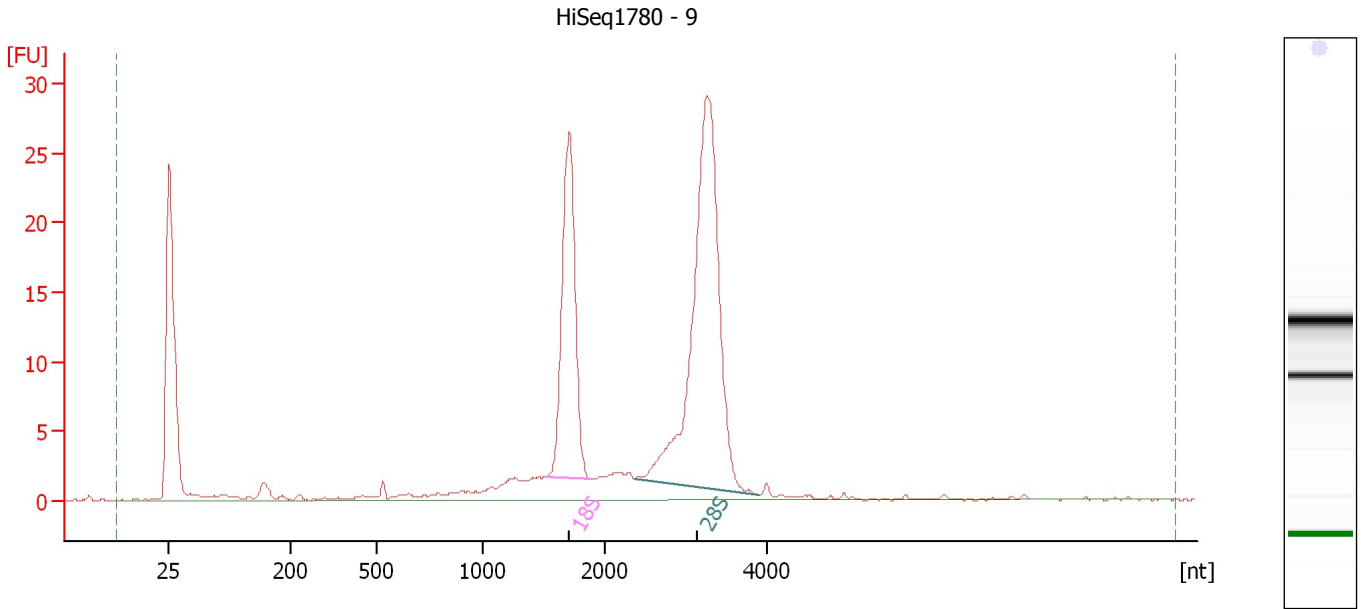
Fragment table for sample 8 : HiSeq1780 - 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,474	1,827	38.9	14.6
28S	2,849	3,660	49.6	18.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HiSeq1780 - 9

RNA Area: 188.4 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 783 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

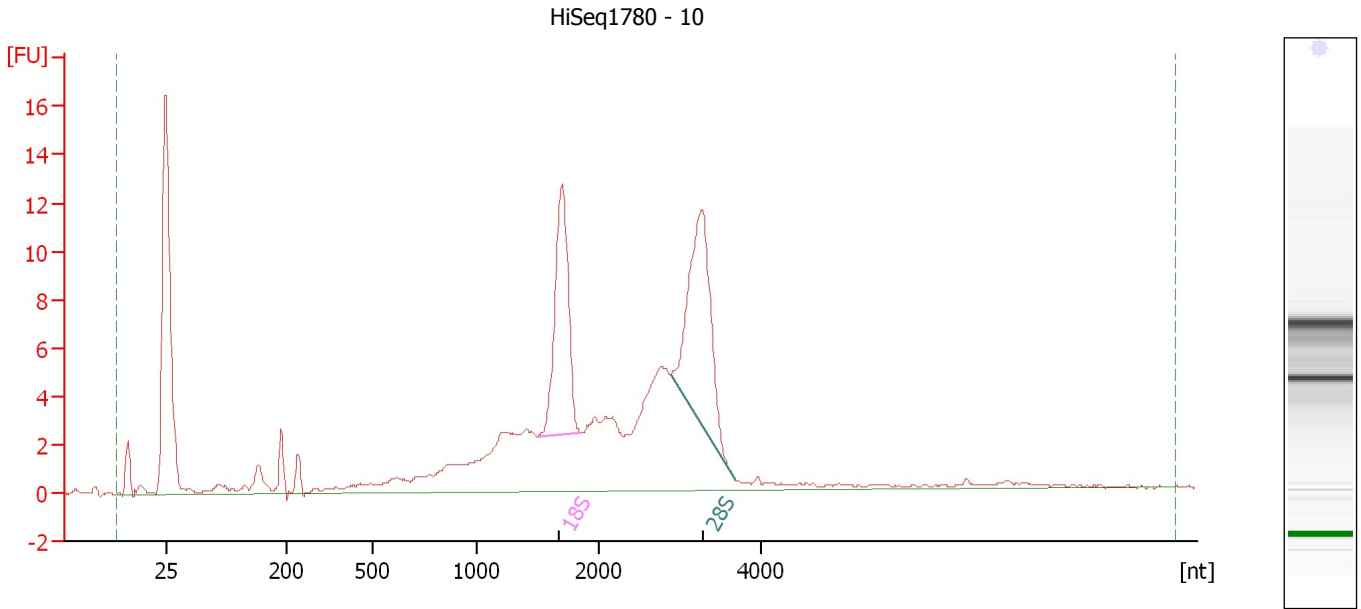
Fragment table for sample 9 : HiSeq1780 - 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,526	1,892	43.3	23.0
28S	2,365	3,885	85.5	45.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
 Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HiSeq1780 - 10

RNA Area:	145.6	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	605 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.90

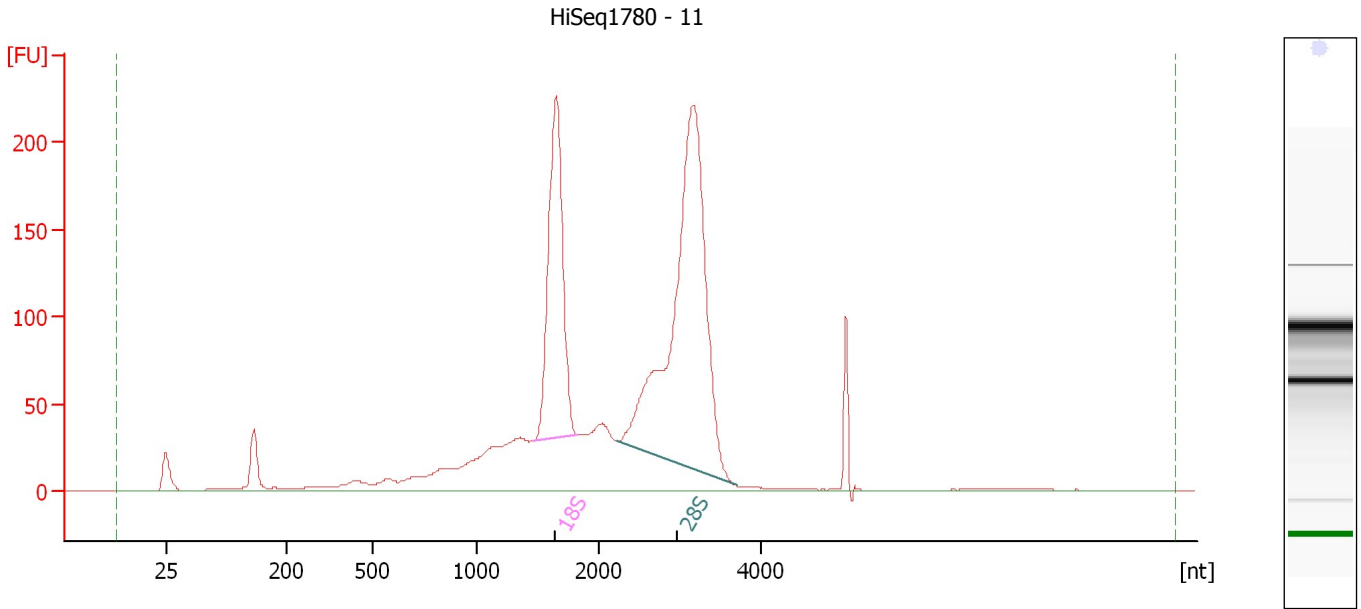
Fragment table for sample 10 : HiSeq1780 - 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,485	1,845	18.8	12.9
28S	2,884	3,683	22.7	15.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
 Modified: 4/19/2019 4:07:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HiSeq1780 - 11

RNA Area:	2,168.1	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	9,015 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN:9

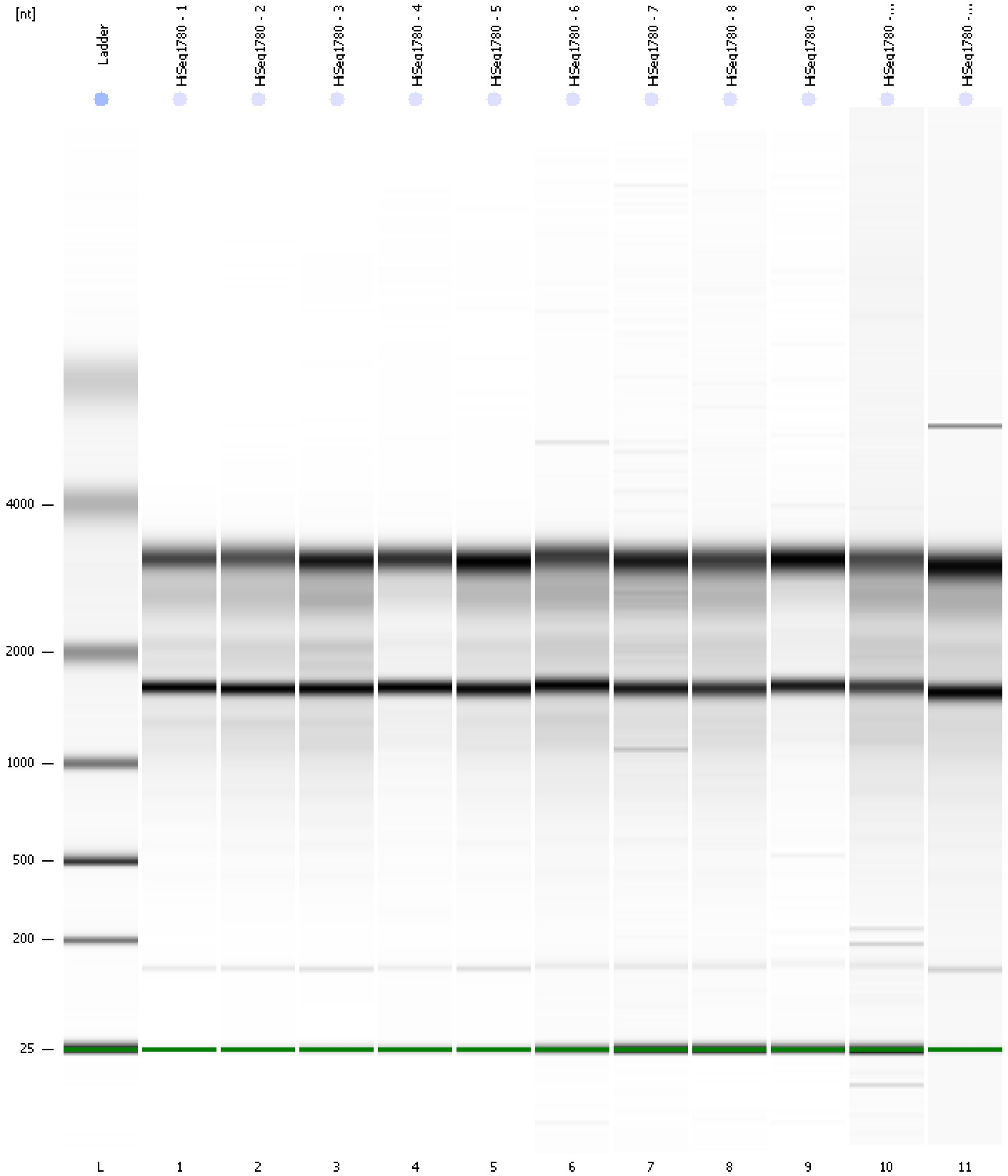
Fragment table for sample 11 : HiSeq1780 - 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,450	1,819	379.2	17.5
28S	2,218	3,709	804.9	37.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
Modified: 4/19/2019 4:07:17 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_006.xad

Created: 4/19/2019 3:45:13 PM
 Modified: 4/19/2019 4:07:17 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		4/19/2019 4:07:16 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\2019-04-19\2019-04-19_006.xad)		Instrument	Run		4/19/2019 3:45:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/19/2019 3:45:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/19/2019 3:45:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/19/2019 3:45:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/19/2019 3:45:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/19/2019 3:45:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/19/2019 3:45:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1