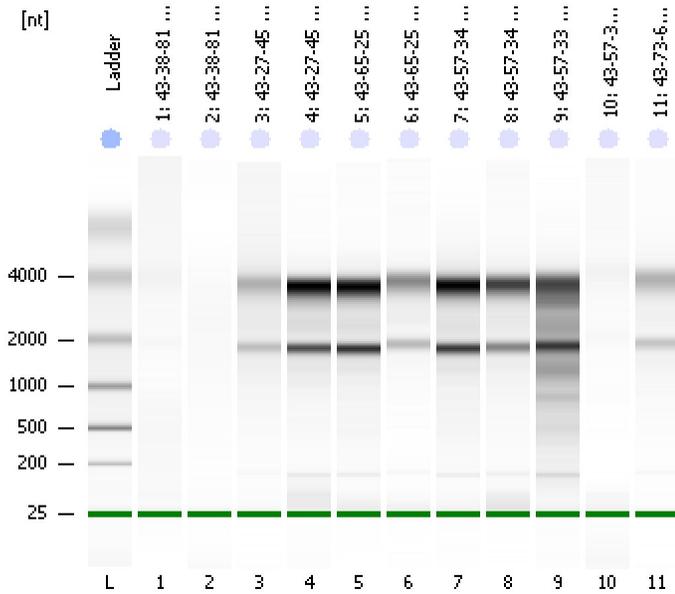


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electrophoresis File Run Summary



Instrument Information:

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

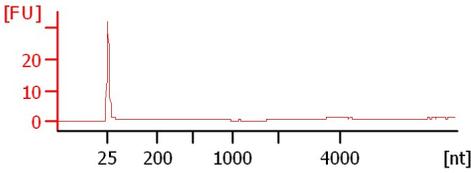
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

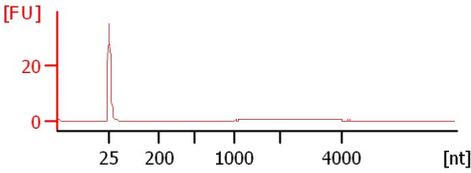
Chip Information:

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

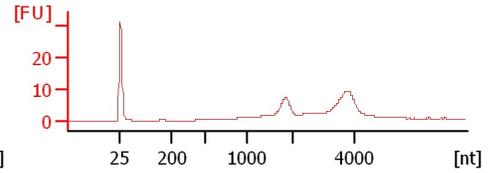
QC 132
RIN:1
1: 43-38-81 LCs 1



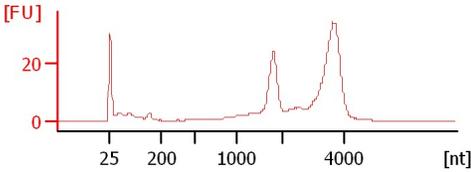
QC 132
RIN:1
2: 43-38-81 dDCs 1



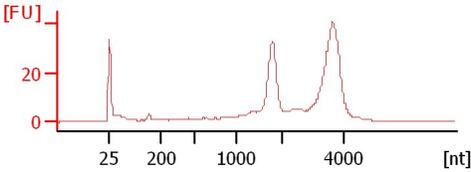
QC 132
RIN: 8.70
3: 43-27-45 LCs 1



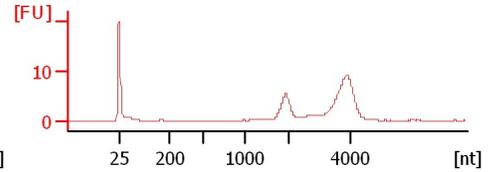
QC 132
RIN: 9.60
4: 43-27-45 dDCs 1



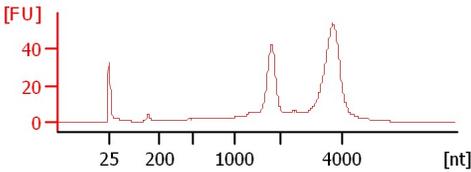
QC 132
RIN:10
5: 43-65-25 LCs 1



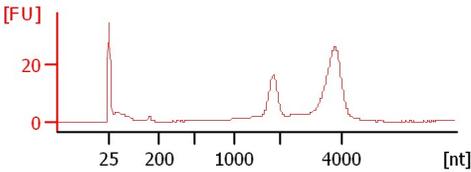
QC 132
RIN: 9.80
6: 43-65-25 dDCs 1



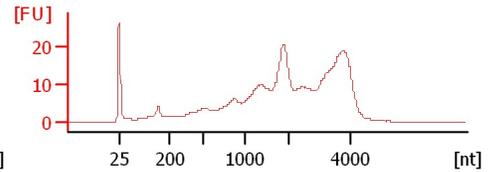
QC 132
RIN:10
7: 43-57-34 LCs 1



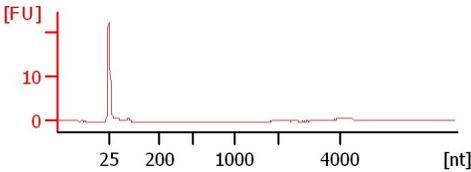
QC 132
RIN: 9.90
8: 43-57-34 dDCs 1



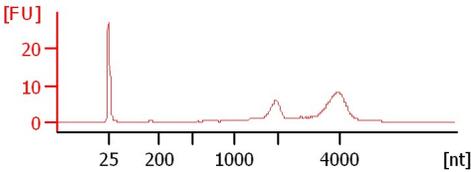
QC 132
RIN: 7.40
9: 43-57-33 LCs 1



QC 132
RIN: 1.10
10: 43-57-33 dDCs 1



QC 132
RIN: 8.90
11: 43-73-69 LCs 1



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
 Modified: 10/31/2016 11:45:10 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1: 43-38-81 LCs 1	QC 132	✓	RIN:1	
2: 43-38-81 dDCs 1	QC 132	✓	RIN:1	
3: 43-27-45 LCs 1	QC 132	✓	RIN: 8.70	
4: 43-27-45 dDCs 1	QC 132	✓	RIN: 9.60	
5: 43-65-25 LCs 1	QC 132	✓	RIN:10	
6: 43-65-25 dDCs 1	QC 132	✓	RIN: 9.80	
7: 43-57-34 LCs 1	QC 132	✓	RIN:10	
8: 43-57-34 dDCs 1	QC 132	✓	RIN: 9.90	
9: 43-57-33 LCs 1	QC 132	✓	RIN: 7.40	
10: 43-57-33 dDCs 1	QC 132	✓	RIN: 1.10	
11: 43-73-69 LCs 1	QC 132	✓	RIN: 8.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

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

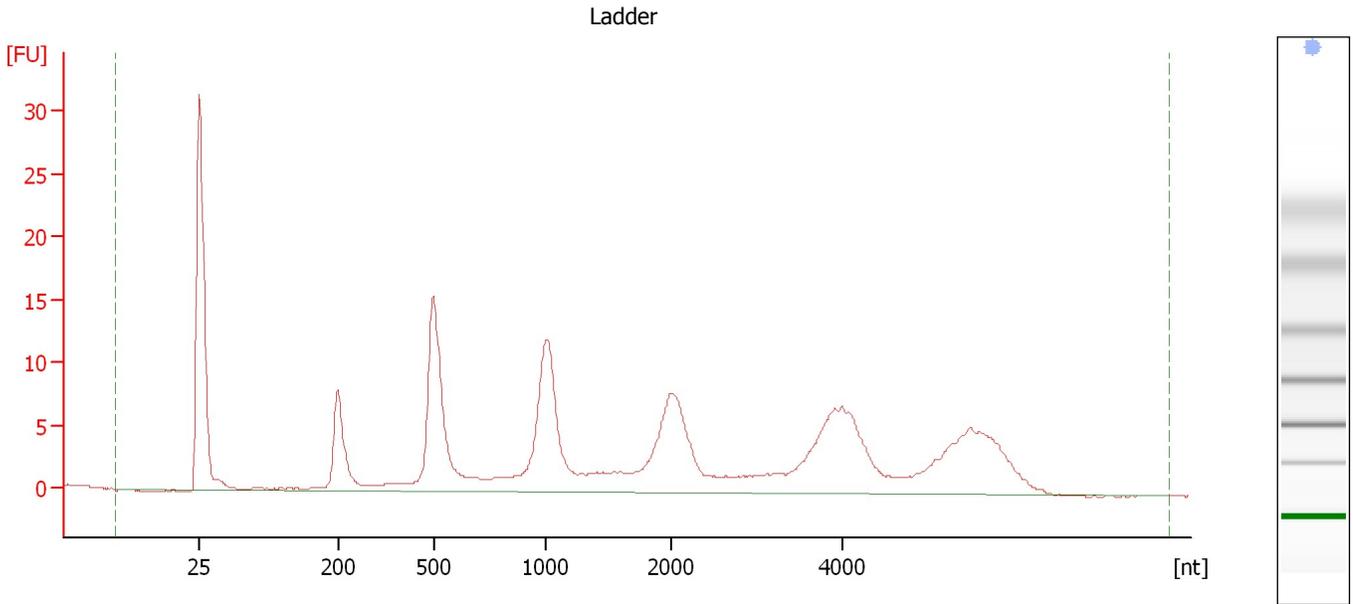
Ladder

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\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary



Overall Results for Ladder

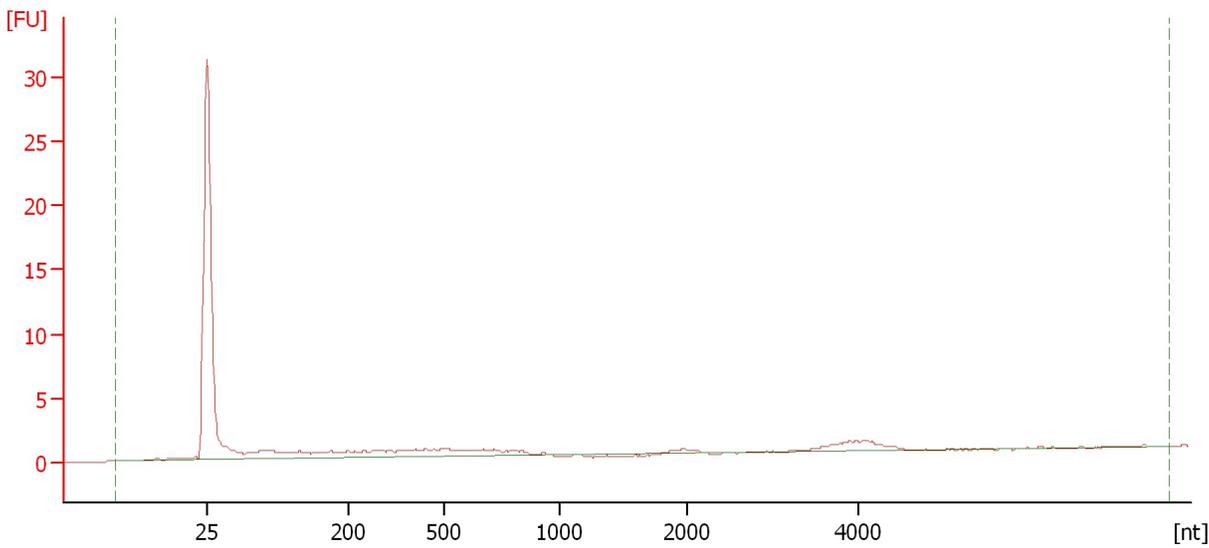
RNA Area:	224.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

1: 43-38-81 LCs 1 [QC 132]



Overall Results for sample 1 : 1: 43-38-81 LCs 1

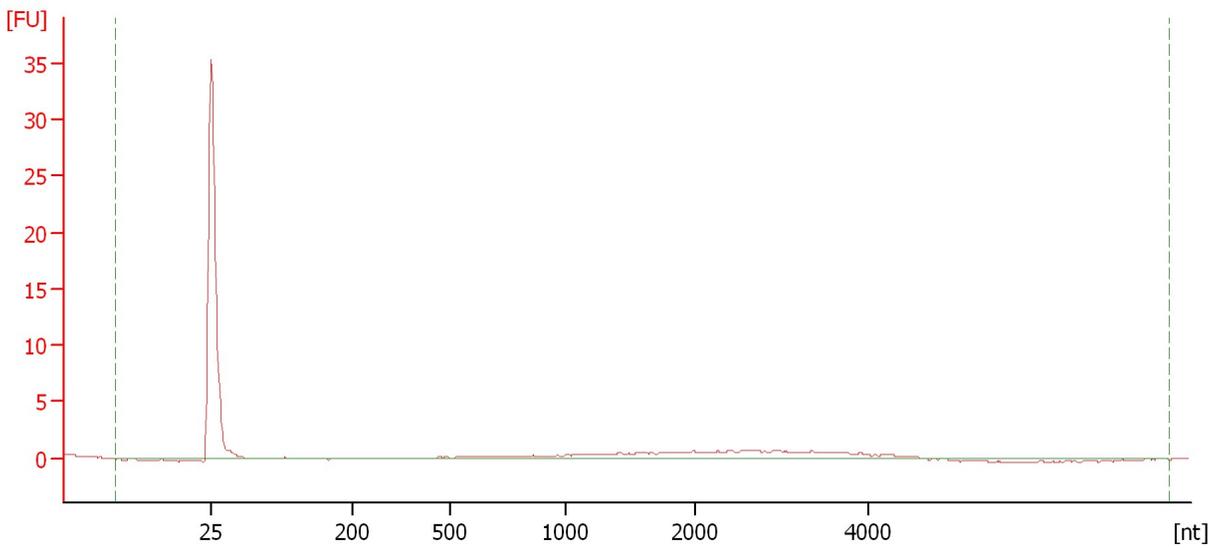
RNA Area:	26.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	119 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

2: 43-38-81 dDCs 1 [QC 132]



Overall Results for sample 2 : 2: 43-38-81 dDCs 1

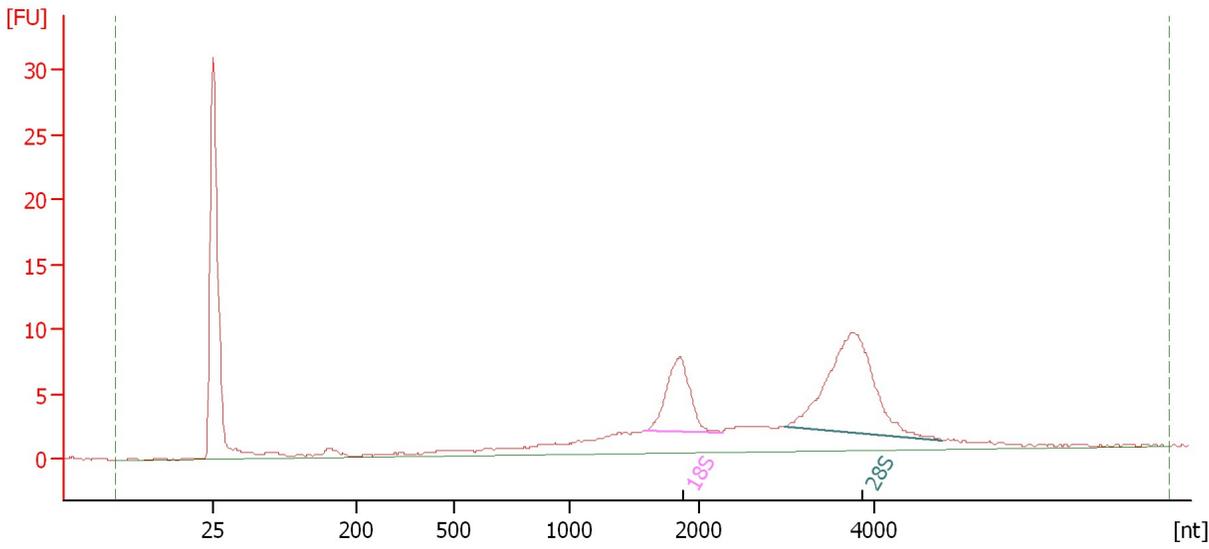
RNA Area:	24.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	111 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

3: 43-27-45 LCs 1 [QC 132]



Overall Results for sample 3 : 3: 43-27-45 LCs 1

RNA Area: 125.3 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 559 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.3 Result Flagging Label: RIN: 8.70

Fragment table for sample 3 : 3: 43-27-45 LCs 1

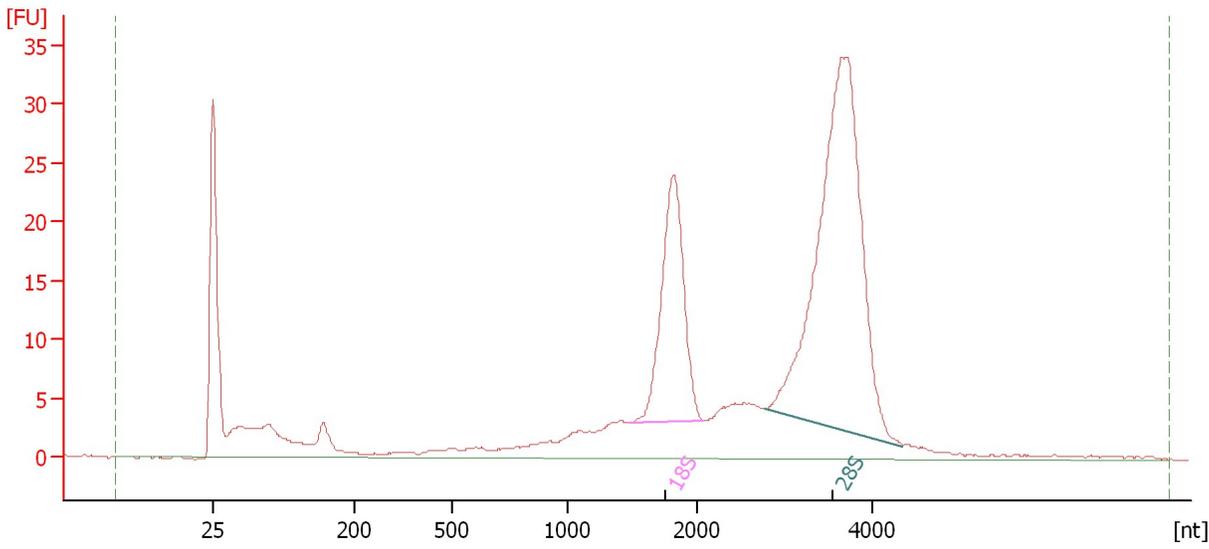
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	2,263	15.9	12.7
28S	2,981	4,781	36.2	28.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
 Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

4: 43-27-45 dDCs 1 [QC 132]



Overall Results for sample 4 : 4: 43-27-45 dDCs 1

RNA Area:	355.8	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	1,587 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 9.60

Fragment table for sample 4 : 4: 43-27-45 dDCs 1

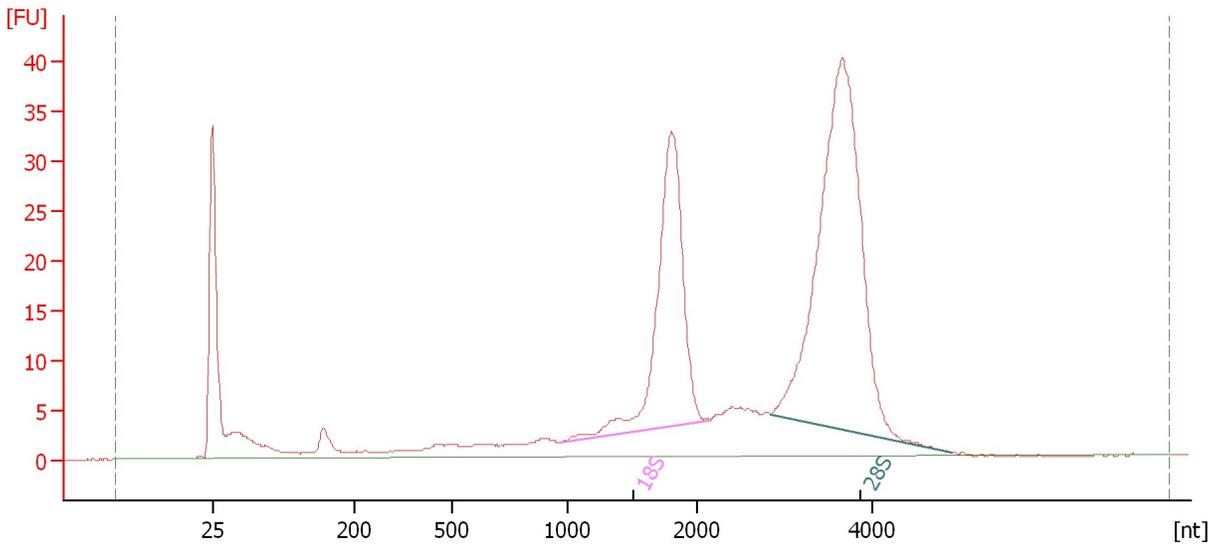
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,476	2,080	55.5	15.6
28S	2,775	4,360	138.5	38.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

5: 43-65-25 LCs 1 [QC 132]



Overall Results for sample 5 : 5: 43-65-25 LCs 1

RNA Area: 406.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 1,814 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:10

Fragment table for sample 5 : 5: 43-65-25 LCs 1

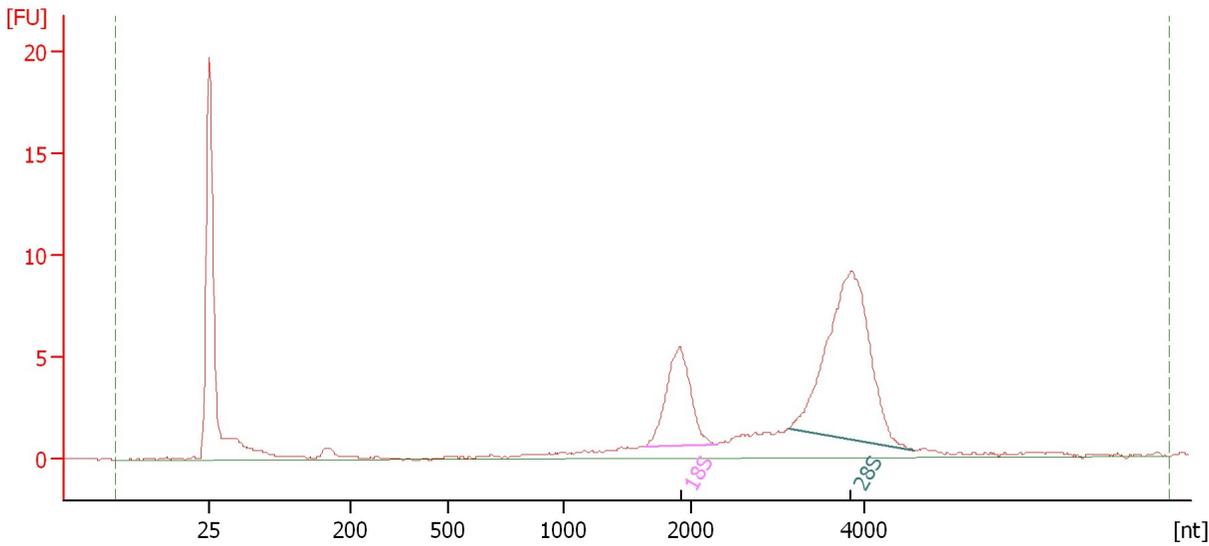
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	966	2,141	89.7	22.1
28S	2,836	4,932	158.2	38.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

6: 43-65-25 dDCs 1 [QC 132]



Overall Results for sample 6 : 6: 43-65-25 dDCs 1

RNA Area: 88.8 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 396 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN: 9.80

Fragment table for sample 6 : 6: 43-65-25 dDCs 1

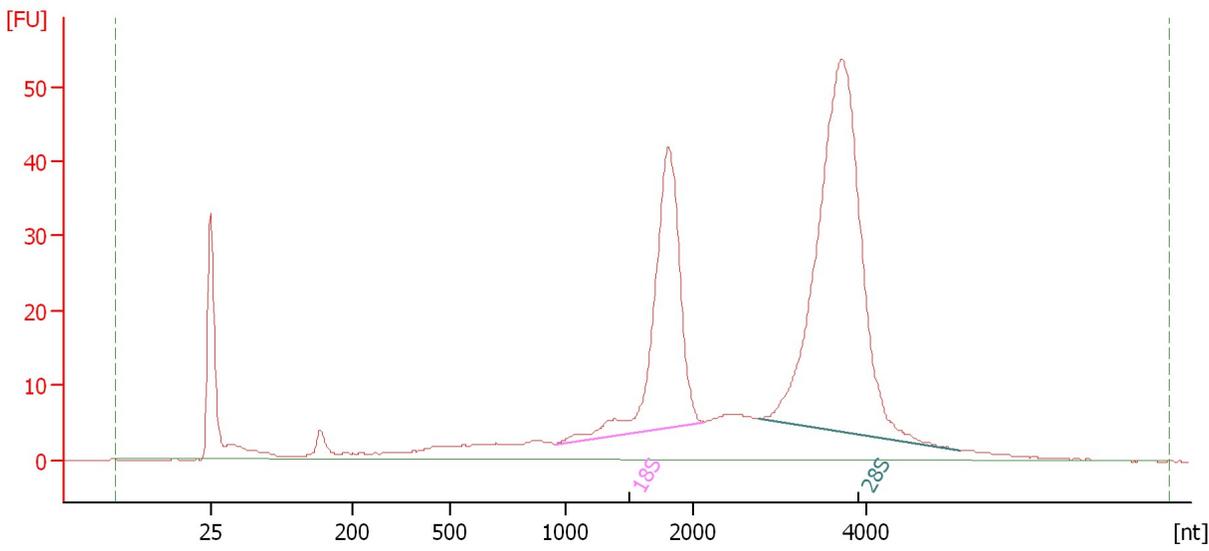
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	2,300	13.9	15.7
28S	3,121	4,581	36.0	40.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

7: 43-57-34 LCs 1 [QC 132]



Overall Results for sample 7 : 7: 43-57-34 LCs 1

RNA Area: 565.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 2,523 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:10

Fragment table for sample 7 : 7: 43-57-34 LCs 1

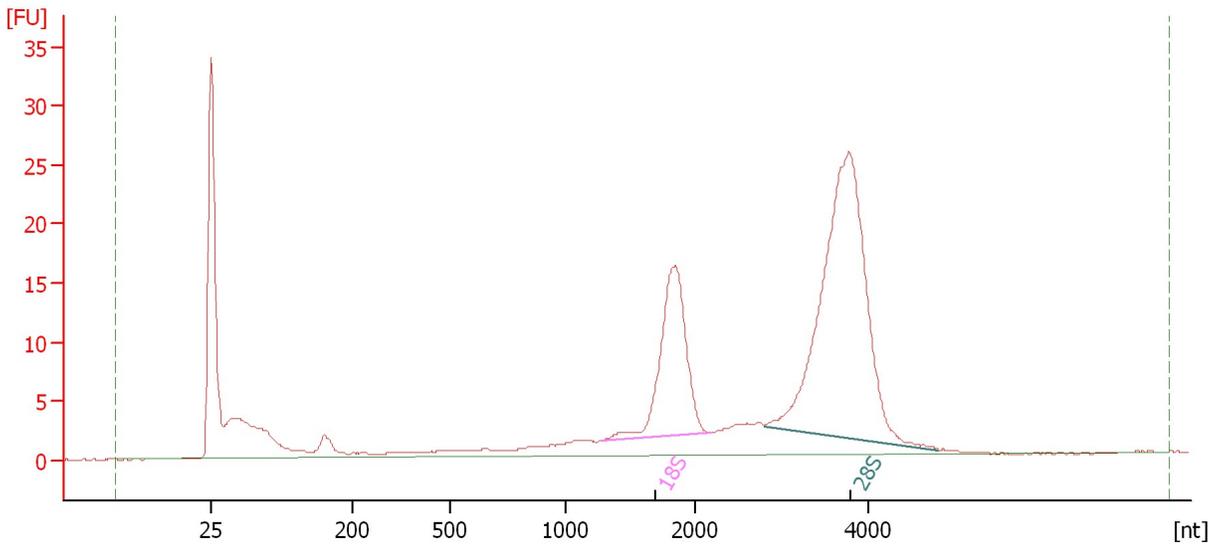
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	963	2,116	116.9	20.7
28S	2,765	5,066	222.6	39.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

8: 43-57-34 dDCs 1 [QC 132]



Overall Results for sample 8 : 8: 43-57-34 dDCs 1

RNA Area: 258.6 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 1,154 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN: 9.90

Fragment table for sample 8 : 8: 43-57-34 dDCs 1

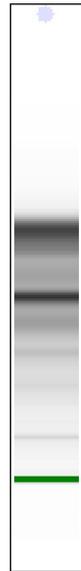
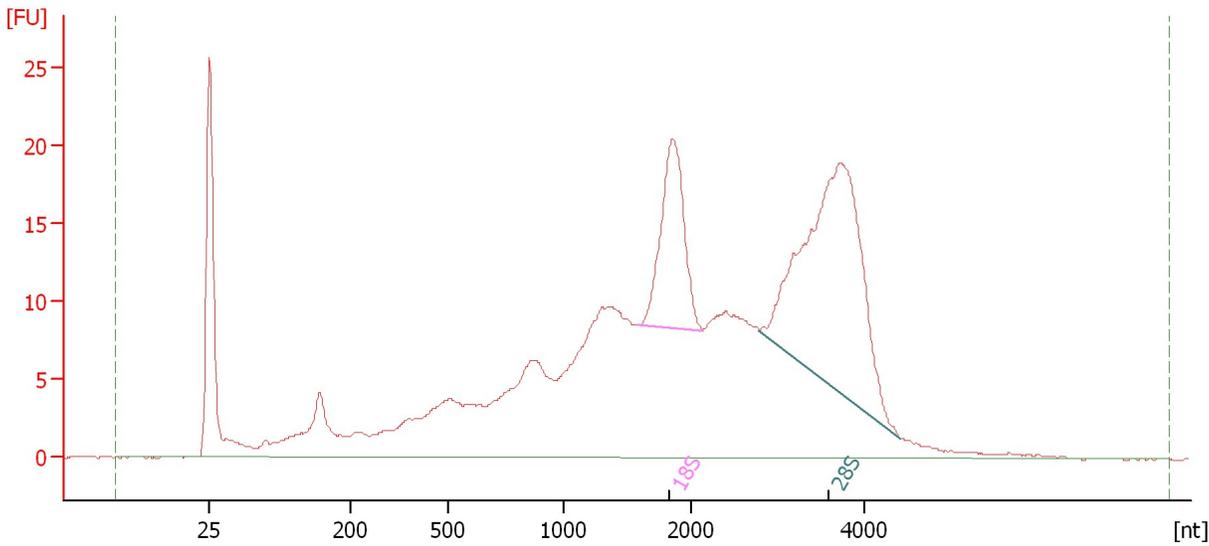
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,267	2,178	44.7	17.3
28S	2,801	4,804	106.9	41.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

9: 43-57-33 LCs 1 [QC 132]



Overall Results for sample 9 : 9: 43-57-33 LCs 1

RNA Area: 484.4 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 2,161 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN: 7.40

Fragment table for sample 9 : 9: 43-57-33 LCs 1

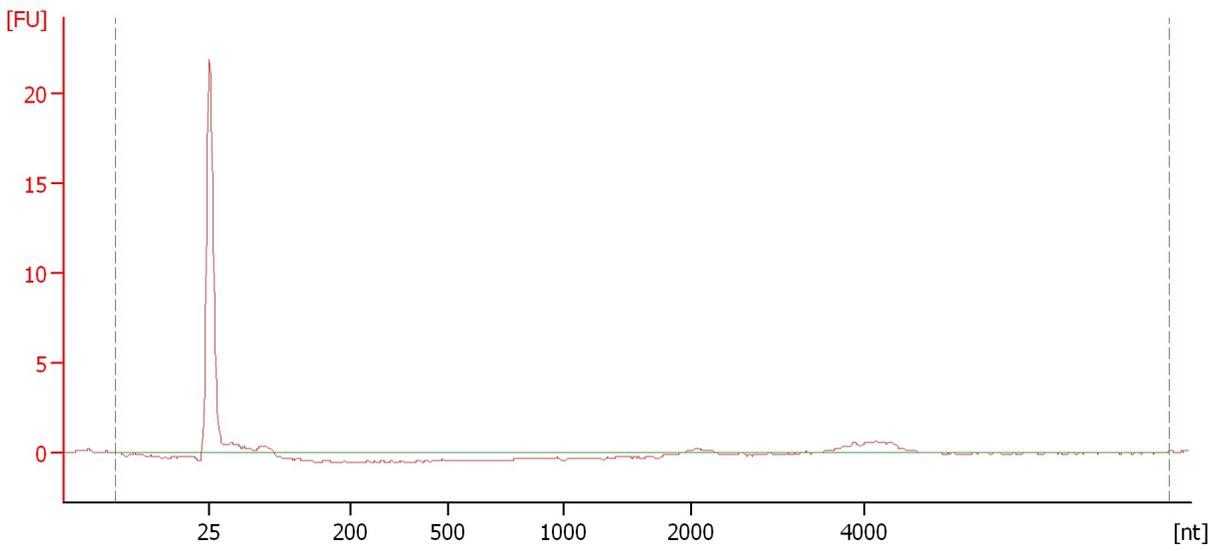
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	2,140	33.4	6.9
28S	2,790	4,422	86.4	17.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

10: 43-57-33 dDCs 1 [QC 132]



Overall Results for sample 10 : 10: 43-57-33 dDCs 1

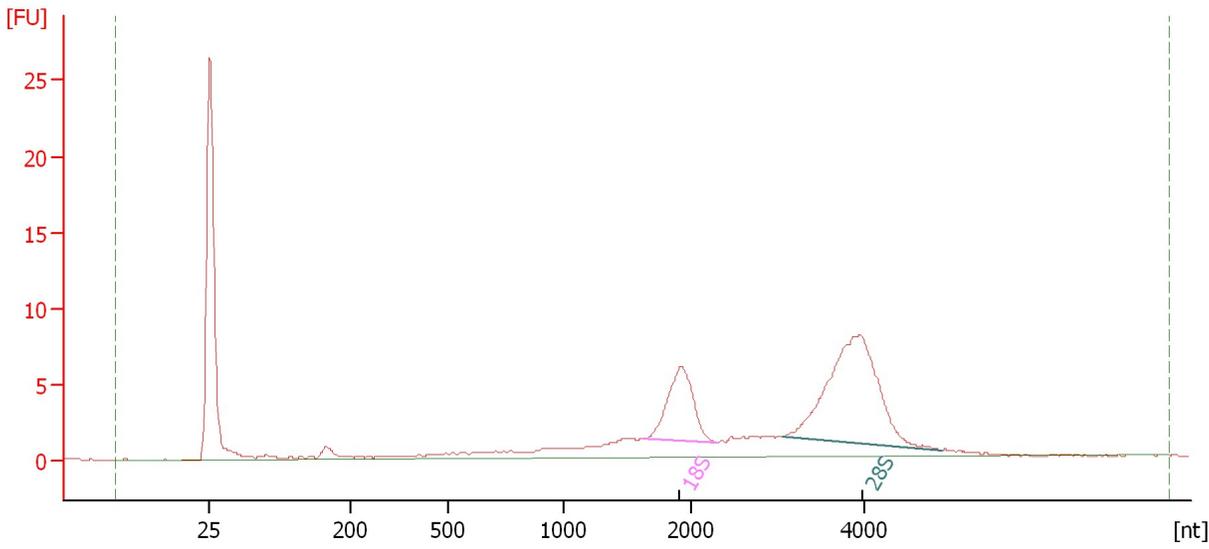
RNA Area:	5.6	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	25 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Electropherogram Summary Continued ...

11: 43-73-69 LCs 1 [QC 132]



Overall Results for sample 11 : 11: 43-73-69 LCs 1

RNA Area: 104.4 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 466 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN: 8.90

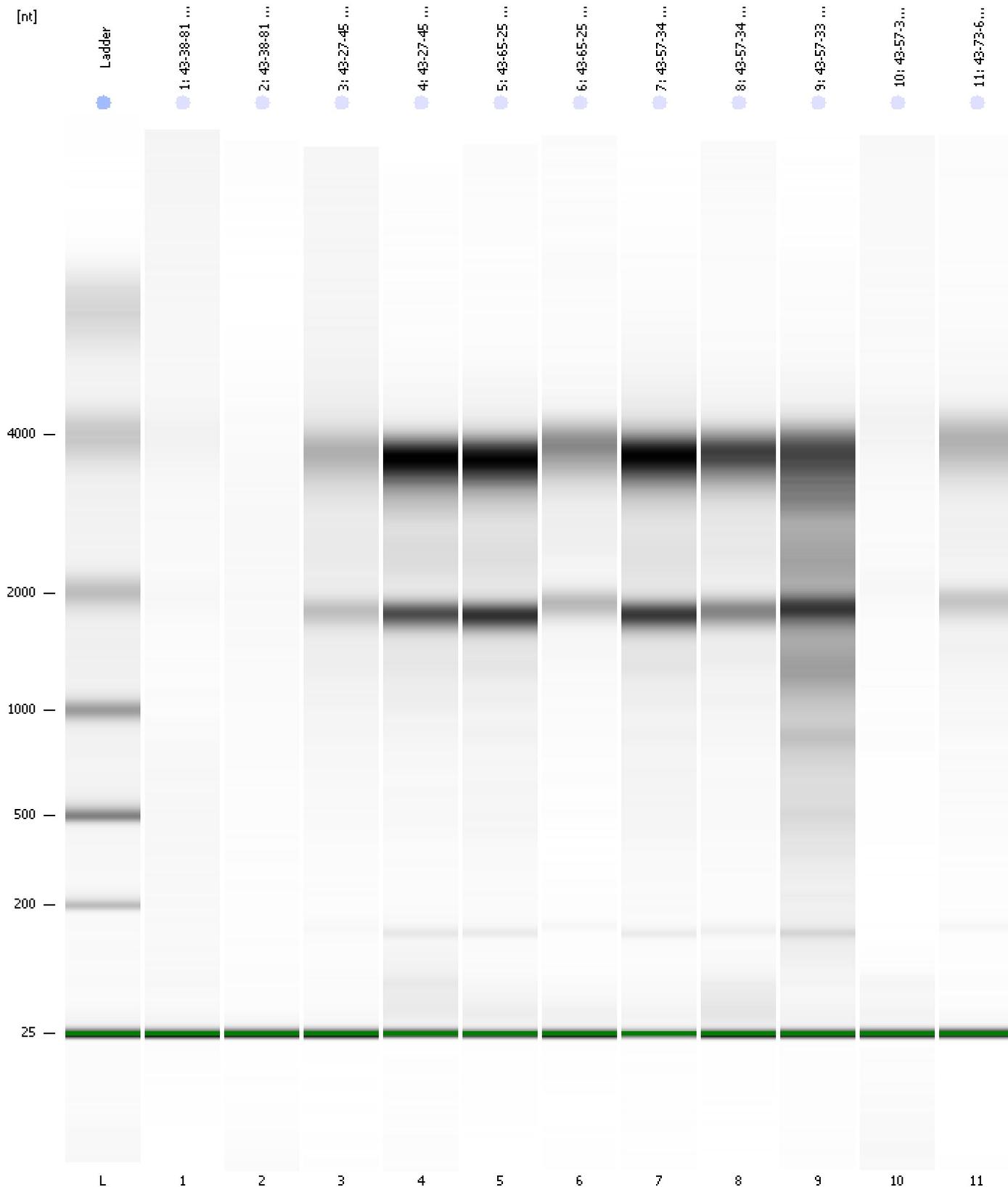
Fragment table for sample 11 : 11: 43-73-69 LCs 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	2,300	15.0	14.3
28S	3,060	4,888	36.4	34.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
Modified: 10/31/2016 11:45:10 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad

Created: 10/31/2016 11:15:52 AM
 Modified: 10/31/2016 11:45:10 AM

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		10/31/2016 11:38:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-10-31\2016-10-31_002.xad)		Instrument	Run		10/31/2016 11:15:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/31/2016 11:15:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/31/2016 11:15:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/31/2016 11:15:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/31/2016 11:15:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/31/2016 11:15:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/31/2016 11:15:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1