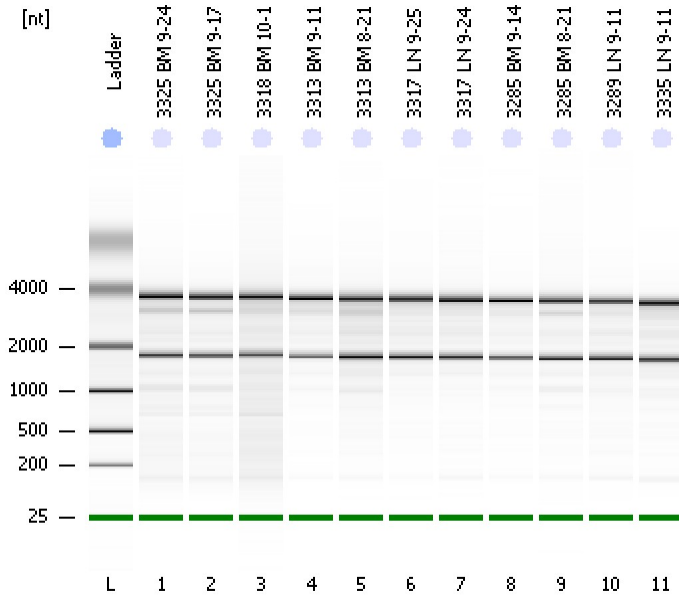


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zyer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
Modified: 10/19/2015 11:44:06 AM

Electrophoresis File Run Summary



Instrument Information:

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

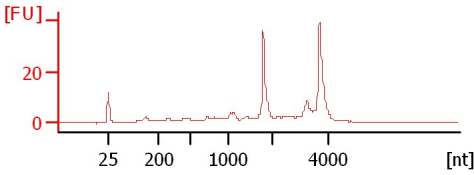
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

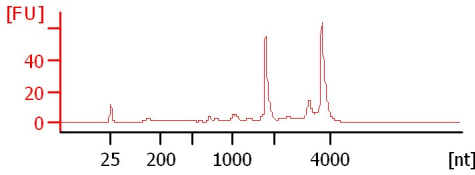
Chip Information:

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

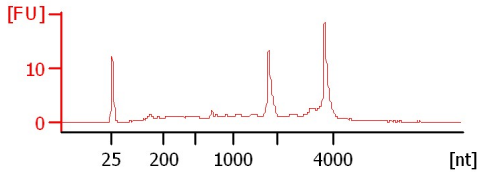
3325 BM 9-24
HiSeq_268 Total RNA QC
RIN: 7.80



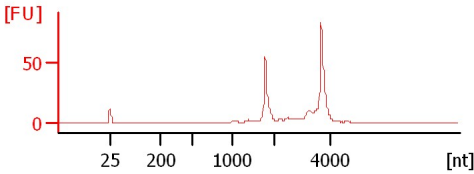
3325 BM 9-17
HiSeq_268 Total RNA QC
RIN: 8.10



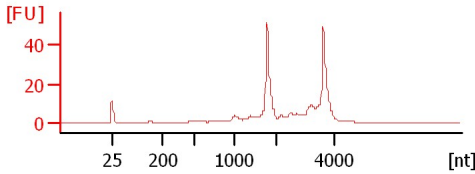
3318 BM 10-1
HiSeq_268 Total RNA QC
RIN: 7.50



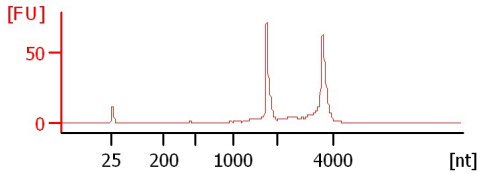
3313 BM 9-11
HiSeq_268 Total RNA QC
RIN: 9.30



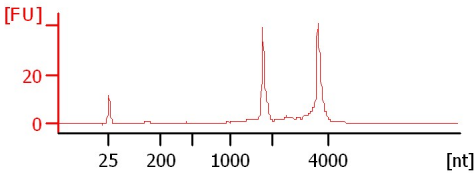
3313 BM 8-21
HiSeq_268 Total RNA QC
RIN: 8.30



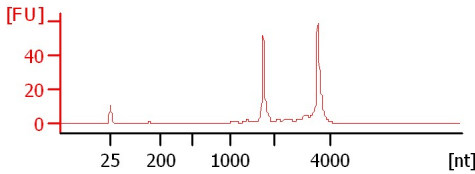
3317 LN 9-25
HiSeq_268 Total RNA QC
RIN: 9.40



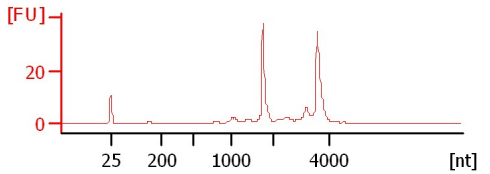
3317 LN 9-24
HiSeq_268 Total RNA QC
RIN: 9.40



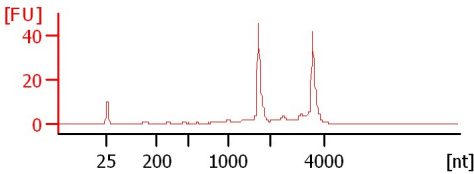
3285 BM 9-14
HiSeq_268 Total RNA QC
RIN: 9.20



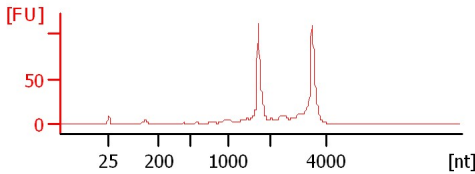
3285 BM 8-21
HiSeq_268 Total RNA QC
RIN: 8.90



3289 LN 9-11
HiSeq_268 Total RNA QC
RIN: 8.70



3335 LN 9-11
HiSeq_268 Total RNA QC
RIN: 9



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
3325 BM 9-24	HiSeq_268 Total RNA QC	✓	RIN: 7.80	
3325 BM 9-17	HiSeq_268 Total RNA QC	✓	RIN: 8.10	
3318 BM 10-1	HiSeq_268 Total RNA QC	✓	RIN: 7.50	
3313 BM 9-11	HiSeq_268 Total RNA QC	✓	RIN: 9.30	
3313 BM 8-21	HiSeq_268 Total RNA QC	✓	RIN: 8.30	
3317 LN 9-25	HiSeq_268 Total RNA QC	✓	RIN: 9.40	
3317 LN 9-24	HiSeq_268 Total RNA QC	✓	RIN: 9.40	
3285 BM 9-14	HiSeq_268 Total RNA QC	✓	RIN: 9.20	
3285 BM 8-21	HiSeq_268 Total RNA QC	✓	RIN: 8.90	
3289 LN 9-11	HiSeq_268 Total RNA QC	✓	RIN: 8.70	
3335 LN 9-11	HiSeq_268 Total RNA QC	✓	RIN:9	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
Modified: 10/19/2015 11:44:06 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

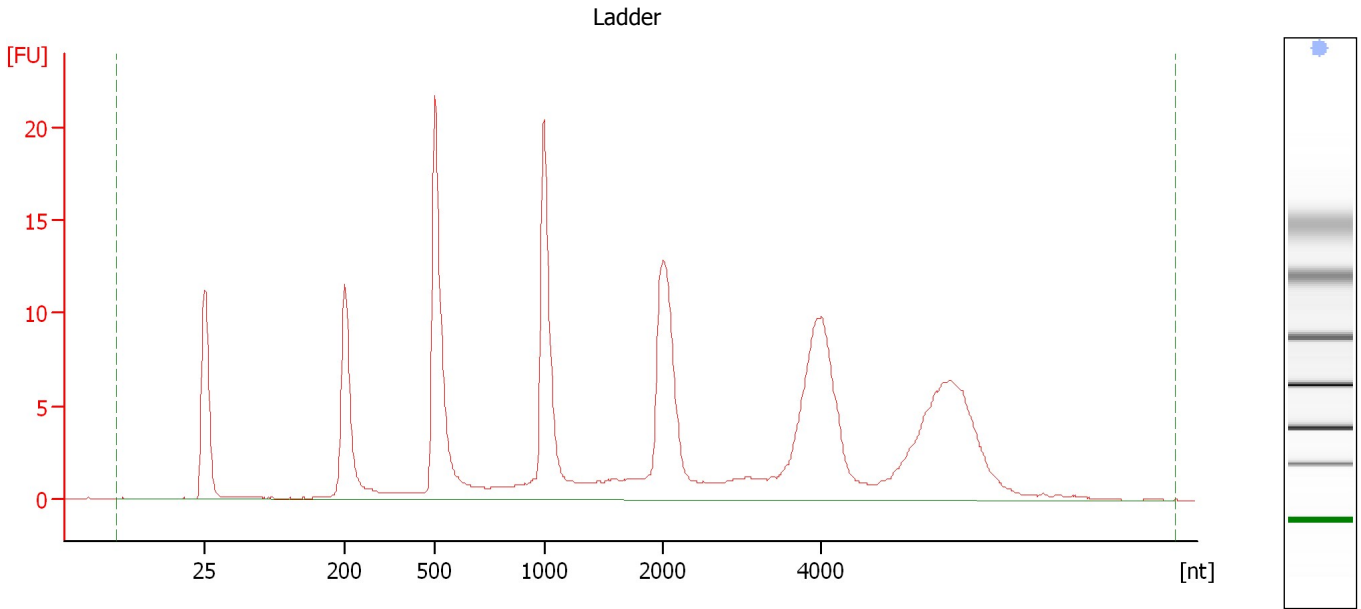
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary



Overall Results for Ladder

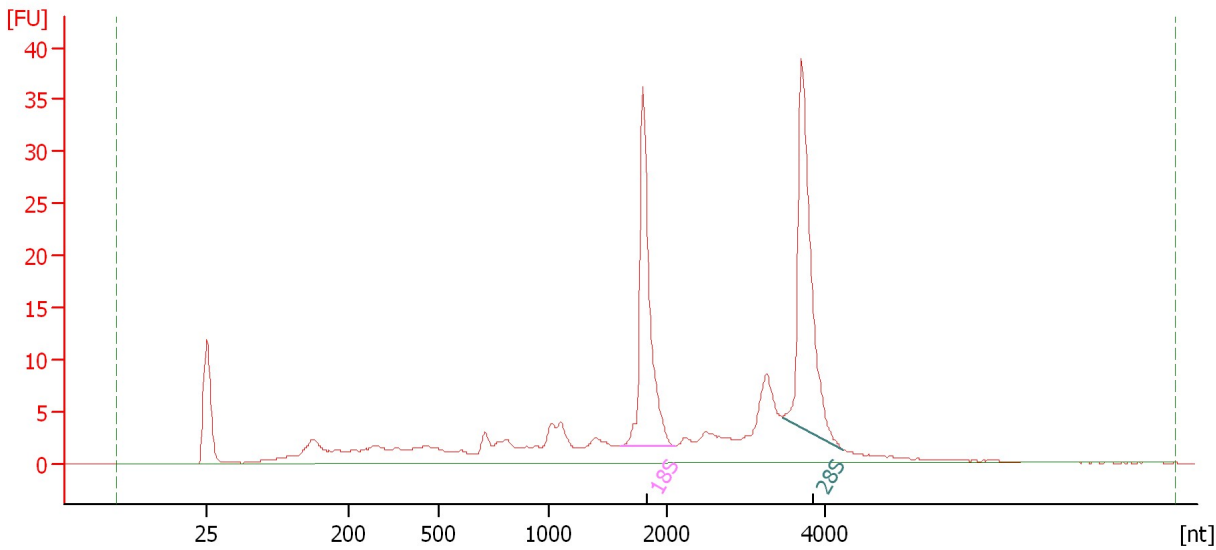
RNA Area:	205.4	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...

3325 BM 9-24 [HiSeq_268 Total RNA QC]



Overall Results for sample 1 : 3325 BM 9-24

RNA Area:	224.4	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	164 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.80

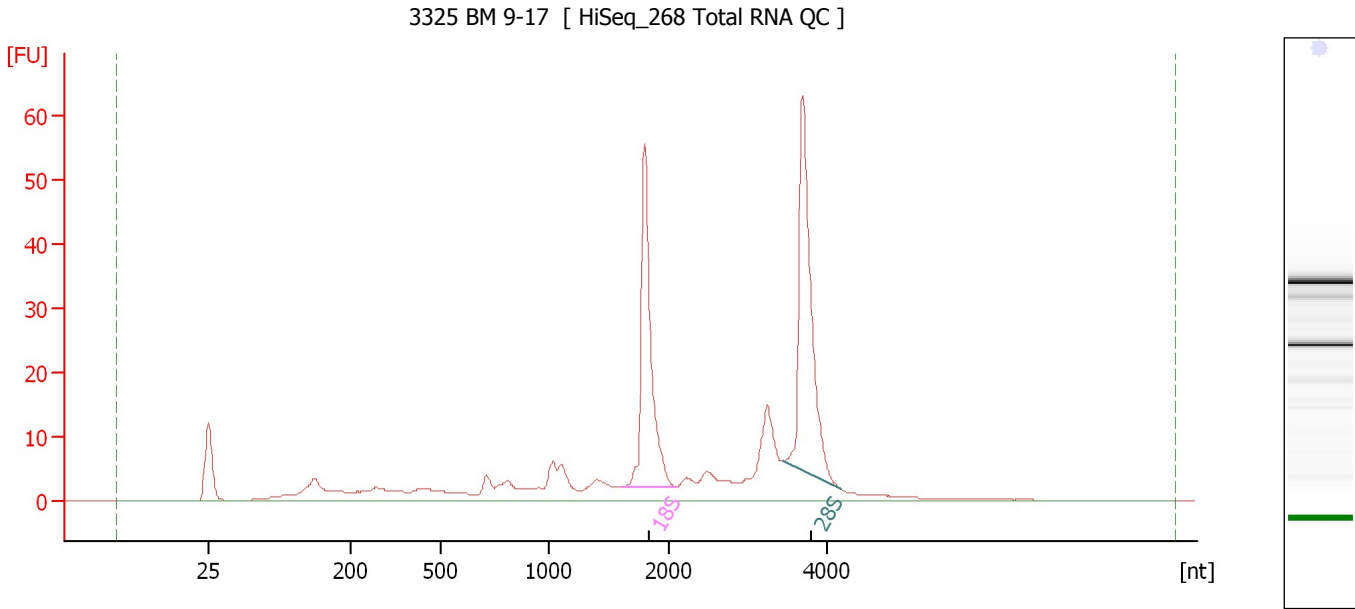
Fragment table for sample 1 : 3325 BM 9-24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	2,110	39.9	17.8
28S	3,465	4,224	46.2	20.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 3325 BM 9-17

RNA Area:	318.3	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	232 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.10

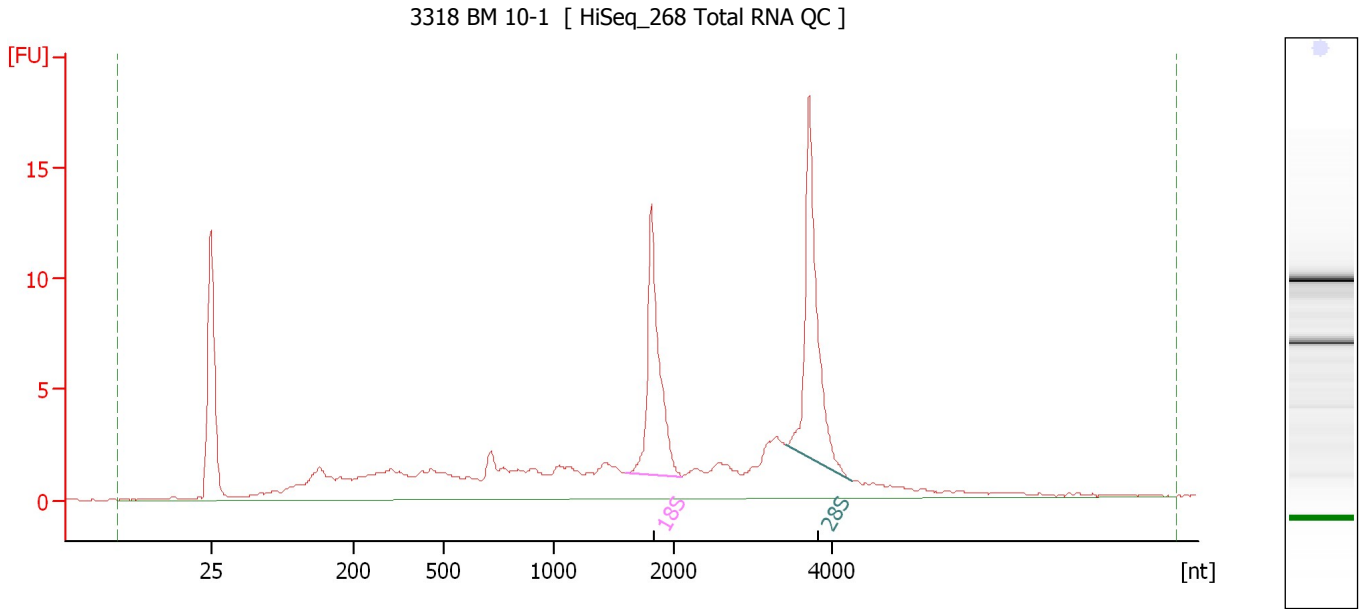
Fragment table for sample 2 : 3325 BM 9-17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	2,098	60.3	19.0
28S	3,436	4,166	71.7	22.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3318 BM 10-1

RNA Area:	129.7	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	95 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.50

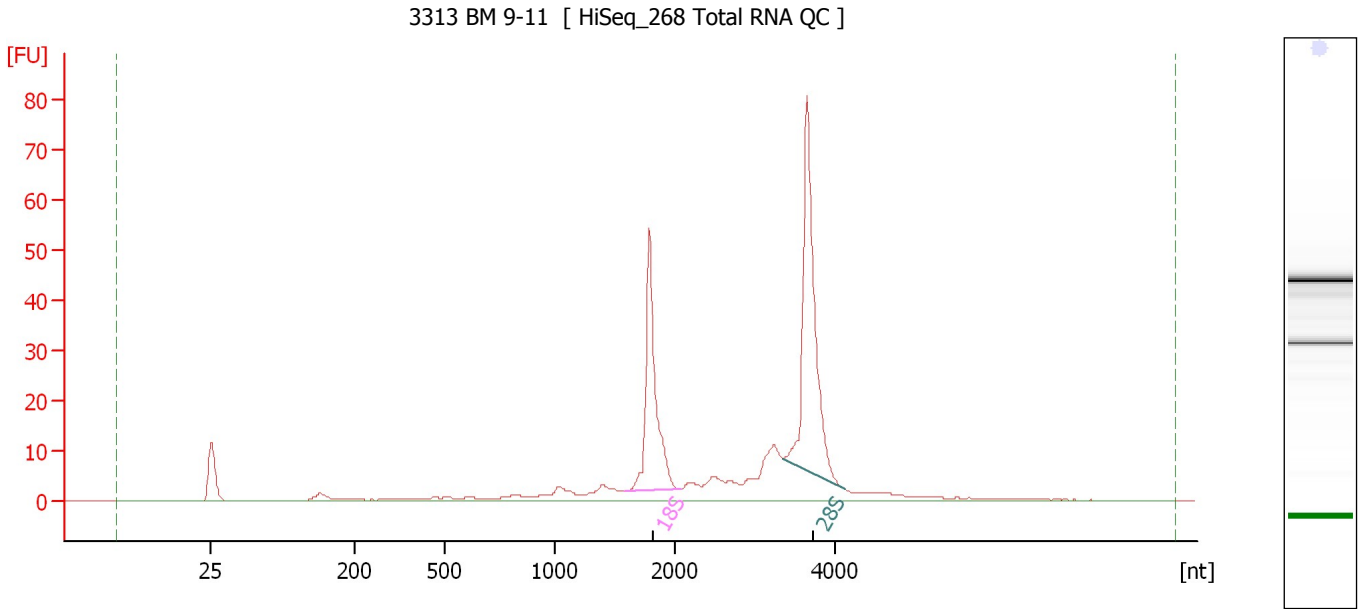
Fragment table for sample 3 : 3318 BM 10-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	2,100	16.8	12.9
28S	3,419	4,240	19.8	15.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 3313 BM 9-11

RNA Area:	289.0	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	211 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.30

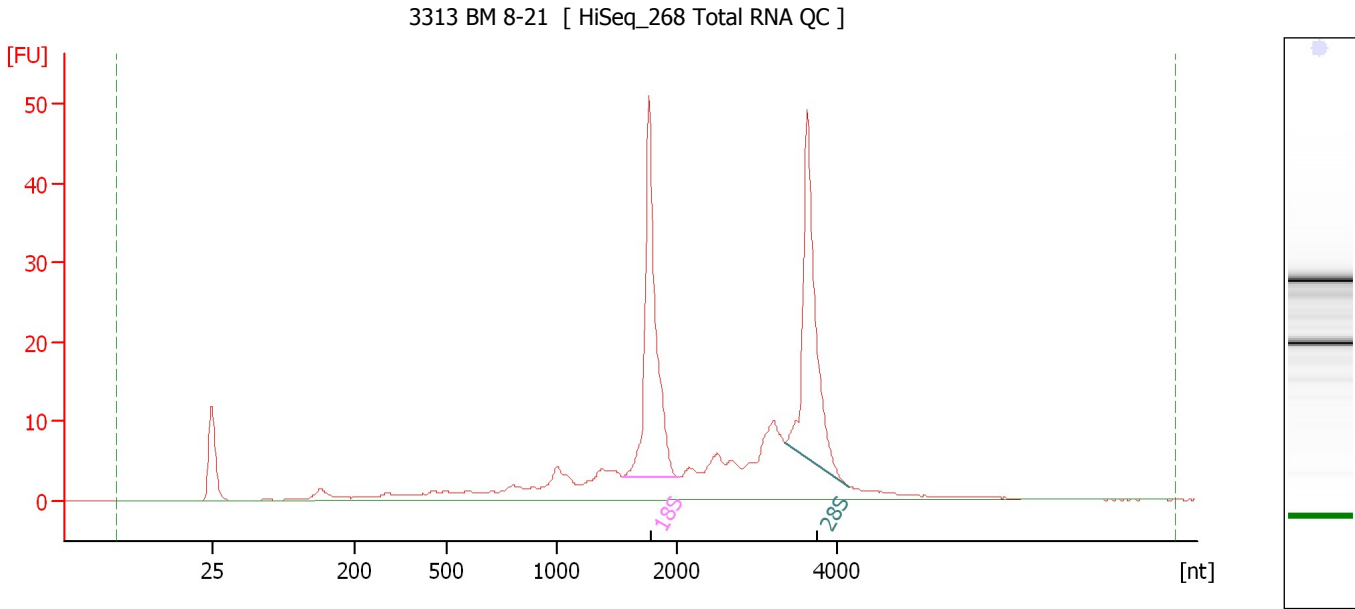
Fragment table for sample 4 : 3313 BM 9-11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	2,061	60.4	20.9
28S	3,364	4,143	88.0	30.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 3313 BM 8-21

RNA Area:	286.2	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	209 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 8.30

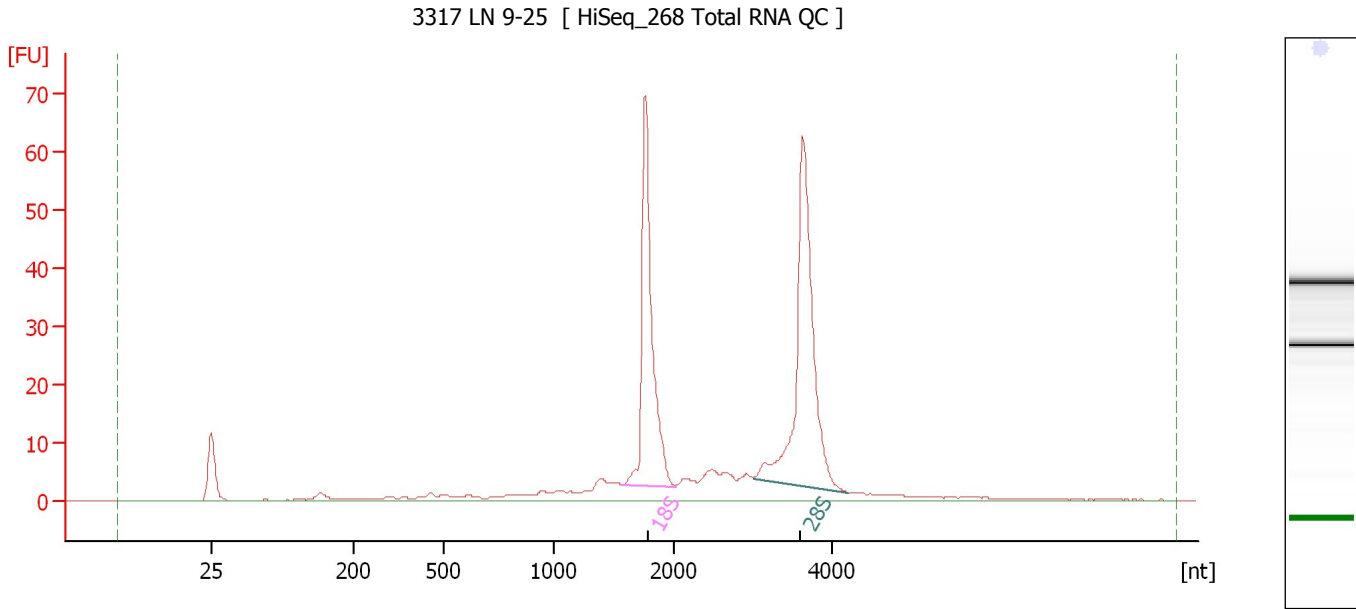
Fragment table for sample 5 : 3313 BM 8-21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,552	2,021	61.4	21.4
28S	3,362	4,153	55.6	19.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 3317 LN 9-25

RNA Area:	296.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	216 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 9.40

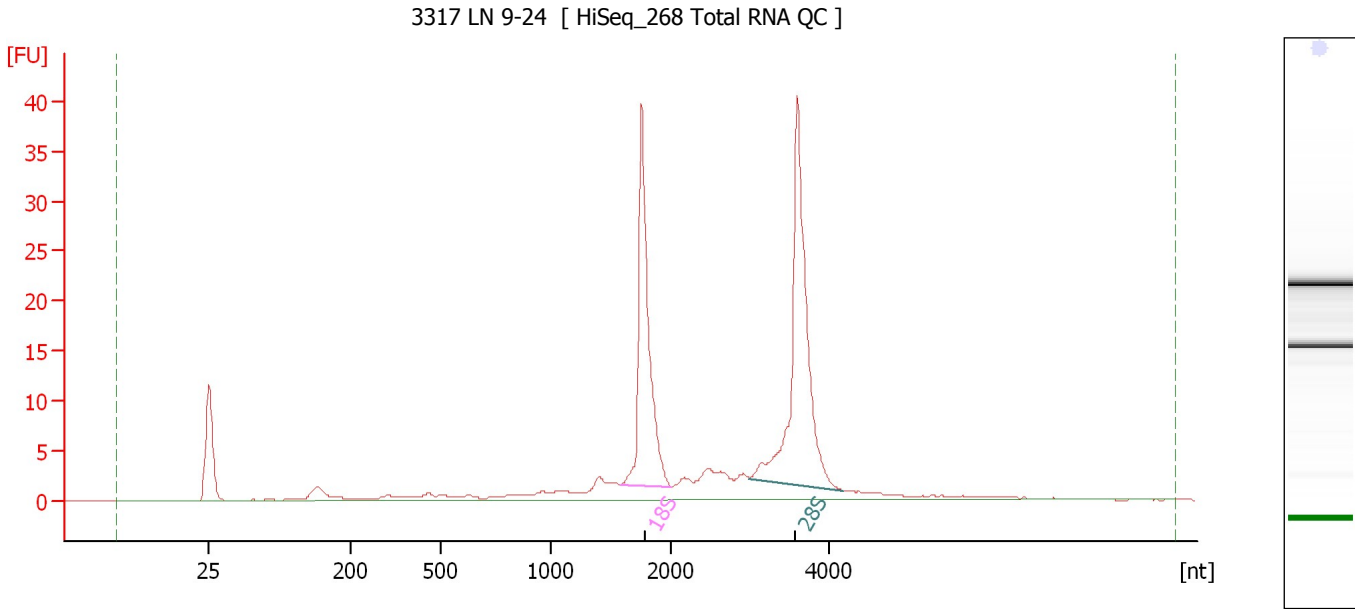
Fragment table for sample 6 : 3317 LN 9-25

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	2,019	77.5	26.2
28S	3,002	4,200	100.4	33.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 3317 LN 9-24

RNA Area:	173.6	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	127 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 9.40

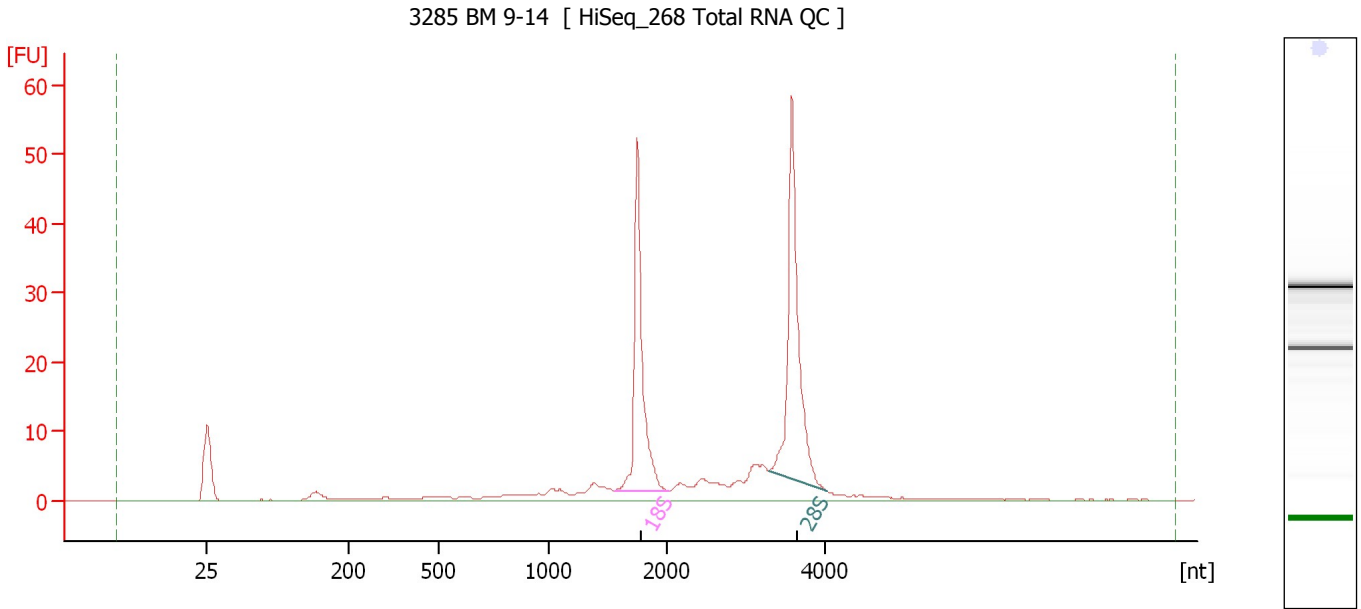
Fragment table for sample 7 : 3317 LN 9-24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,574	2,004	44.4	25.6
28S	2,989	4,176	59.3	34.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 3285 BM 9-14

RNA Area:	198.4	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	145 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 9.20

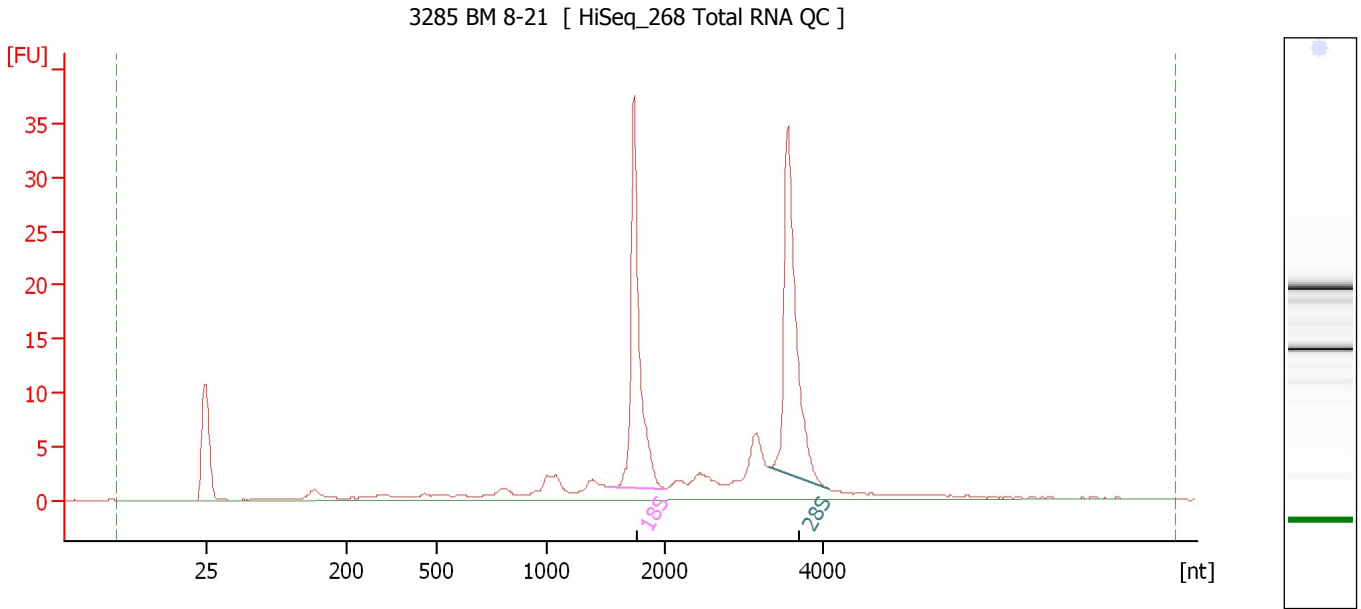
Fragment table for sample 8 : 3285 BM 9-14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,562	2,016	49.7	25.0
28S	3,289	4,021	58.7	29.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 3285 BM 8-21

RNA Area:	153.1	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	112 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 8.90

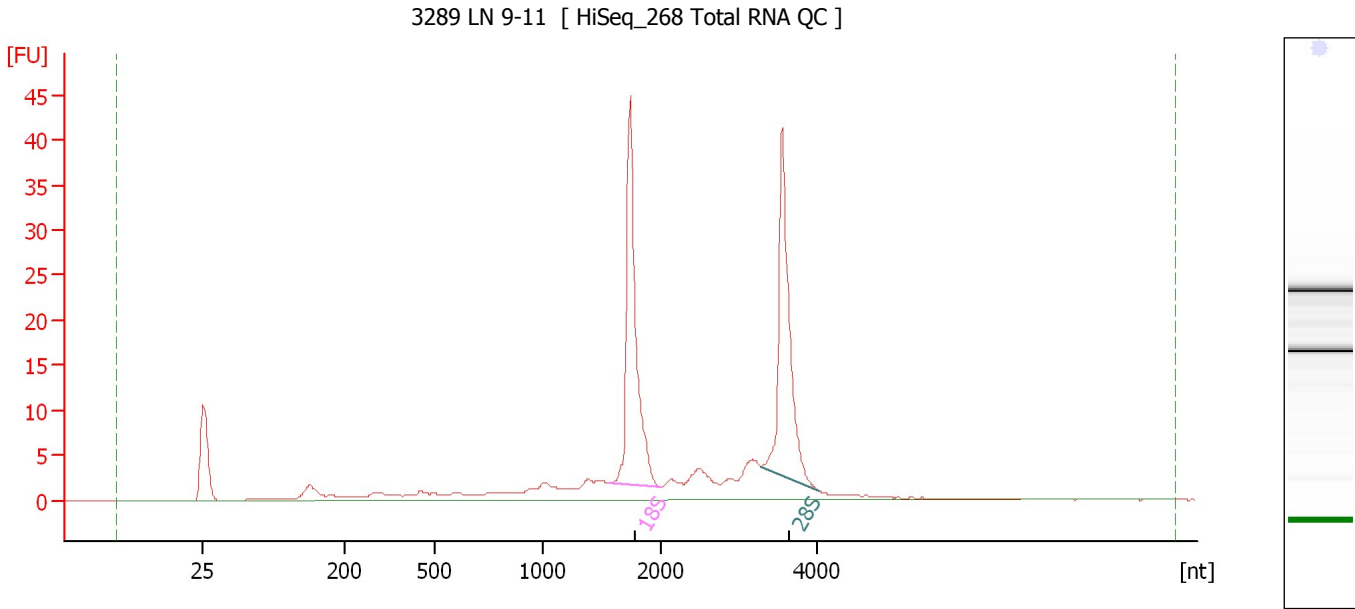
Fragment table for sample 9 : 3285 BM 8-21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,533	2,001	37.8	24.7
28S	3,331	4,078	39.6	25.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 3289 LN 9-11

RNA Area:	181.7	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	133 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 8.70

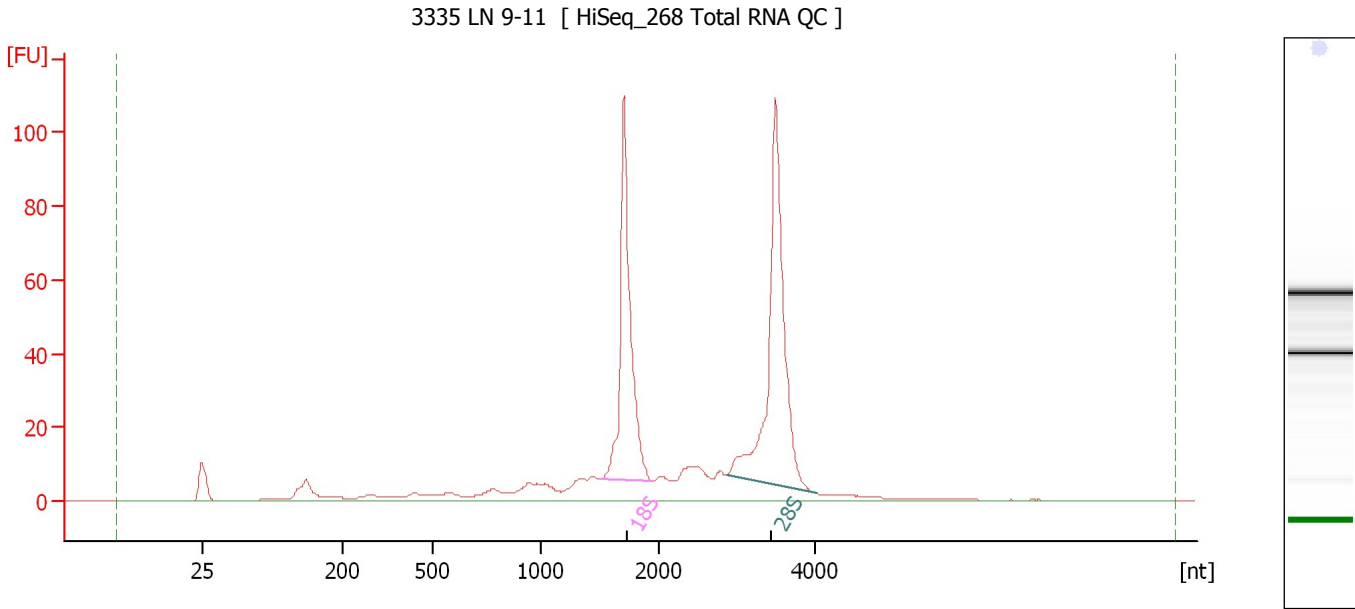
Fragment table for sample 10 : 3289 LN 9-11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,565	1,999	47.3	26.0
28S	3,280	4,016	42.7	23.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 3335 LN 9-11

RNA Area:	536.6	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	392 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:9

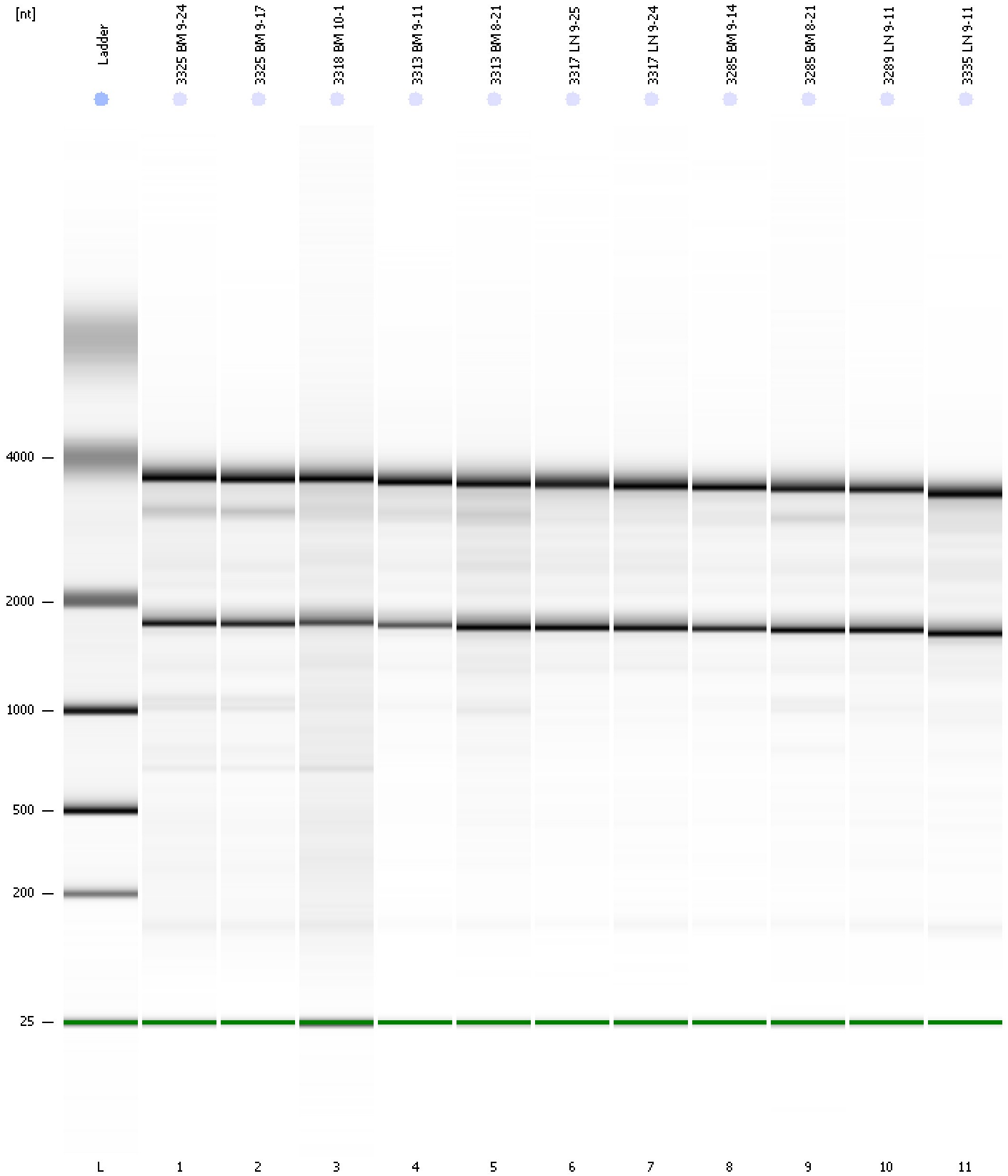
Fragment table for sample 11 : 3335 LN 9-11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,500	1,953	127.2	23.7
28S	2,871	4,033	167.5	31.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
Modified: 10/19/2015 11:44:06 AM

Gel Image

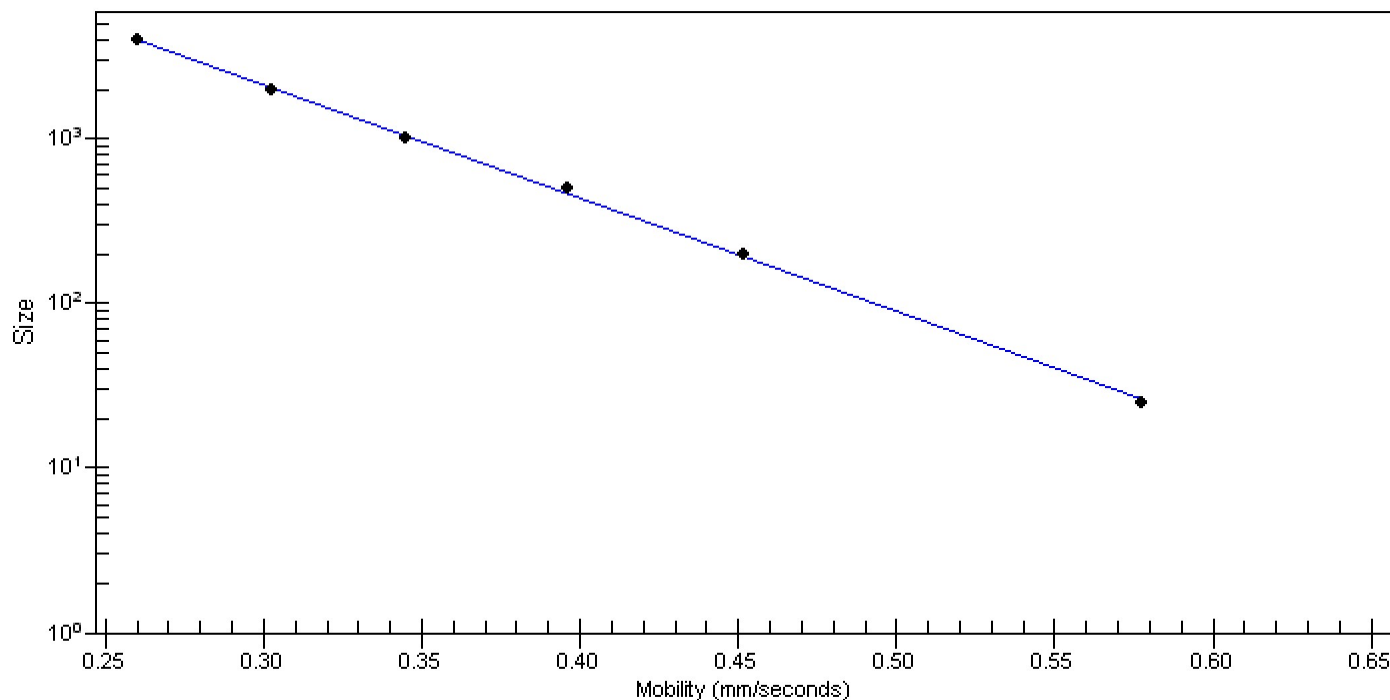


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
Modified: 10/19/2015 11:44:06 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...yzer\2015-10-19\2015-10-19_002_HiSeq268_TotalRNAQC_1-11.xad

Created: 10/19/2015 11:08:13 AM
 Modified: 10/19/2015 11:44:06 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		10/19/2015 11:31:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-19\2015-10-19_002.xad)		Instrument	Run		10/19/2015 11:08:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/19/2015 11:08:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/19/2015 11:08:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/19/2015 11:08:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/19/2015 11:08:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/19/2015 11:08:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/19/2015 11:08:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1