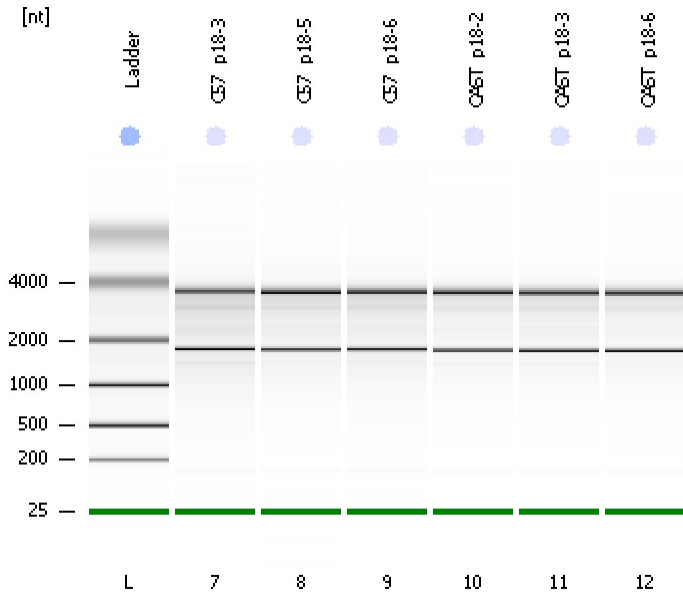


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
 Modified: 3/29/2016 12:15:31 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 Nano Series II.xsy

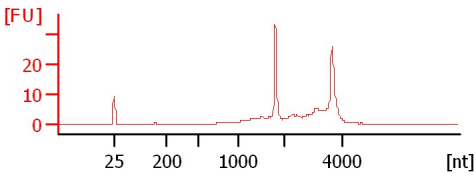
Assay Class: Eukaryote Total RNA Nano
 Version: 2.6
 Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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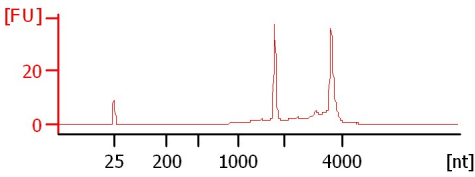
Chip Information:

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

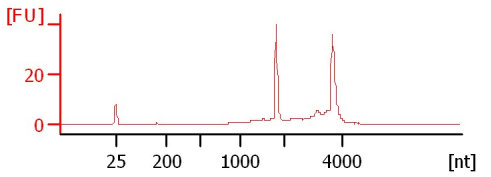
C57_p18-3
 HiSeq_443 Total RNA
 RIN: 8.20



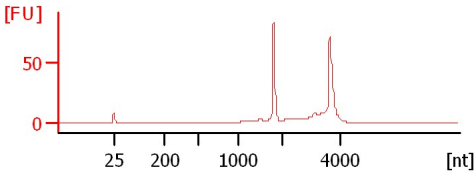
C57_p18-5
 HiSeq_443 Total RNA
 RIN: 8.70



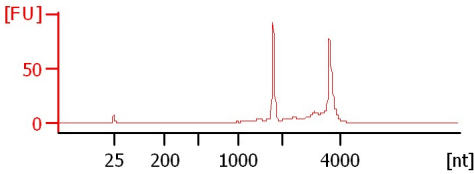
C57_p18-6
 HiSeq_443 Total RNA
 RIN: 8.50



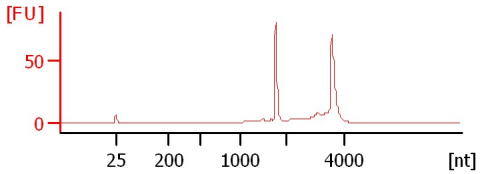
CAST_p18-2
 HiSeq_443 Total RNA
 RIN: 8.90



CAST_p18-3
 HiSeq_443 Total RNA
 RIN: 8.80



CAST_p18-6
 HiSeq_443 Total RNA
 RIN: 9.10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
 Modified: 3/29/2016 12:15:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
C57_p18-3	HiSeq_443 Total RNA	✓	RIN: 8.20	
C57_p18-5	HiSeq_443 Total RNA	✓	RIN: 8.70	
C57_p18-6	HiSeq_443 Total RNA	✓	RIN: 8.50	
CAST_p18-2	HiSeq_443 Total RNA	✓	RIN: 8.90	
CAST_p18-3	HiSeq_443 Total RNA	✓	RIN: 8.80	
CAST_p18-6	HiSeq_443 Total RNA	✓	RIN: 9.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
Modified: 3/29/2016 12:15:31 PM

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/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 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

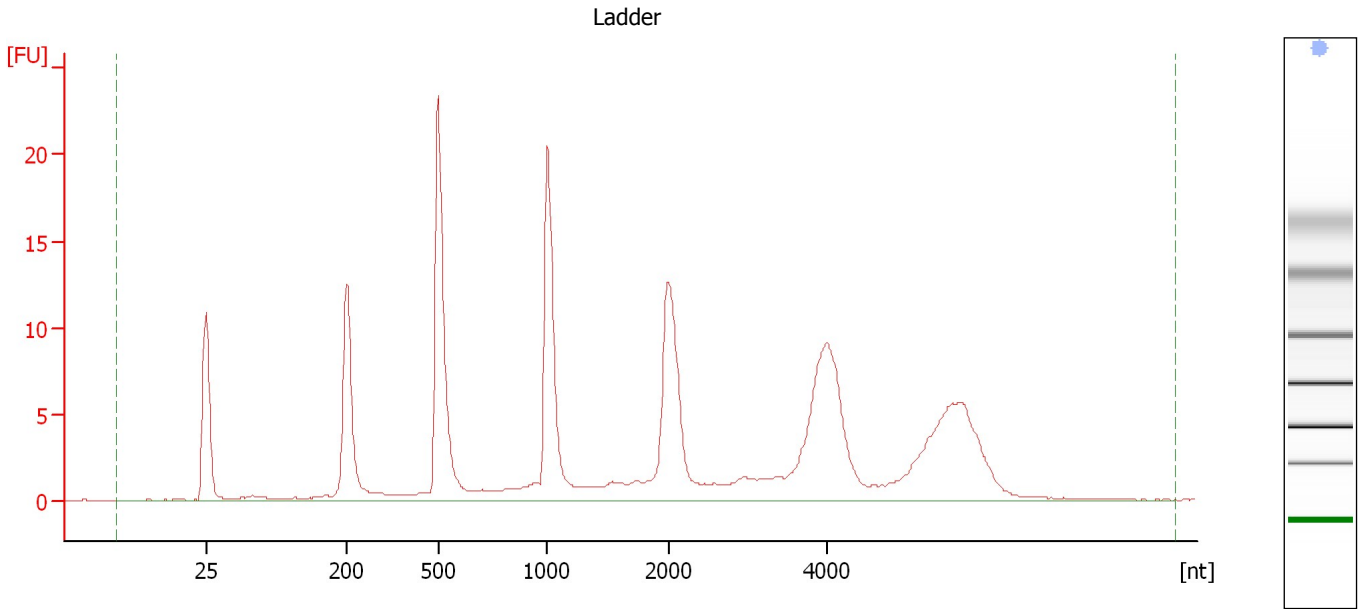
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
Modified: 3/29/2016 12:15:31 PM

Electropherogram Summary



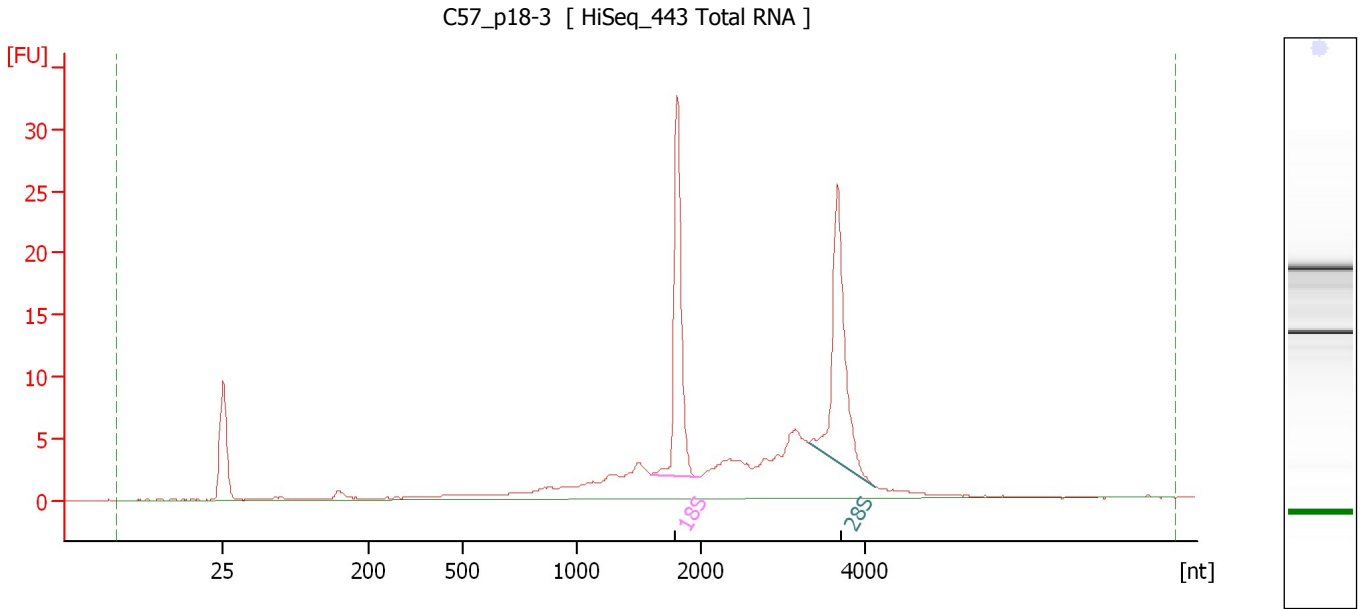
Overall Results for Ladder

RNA Area:	197.2	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
 Modified: 3/29/2016 12:15:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C57_p18-3

RNA Area:	148.1	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	113 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.20

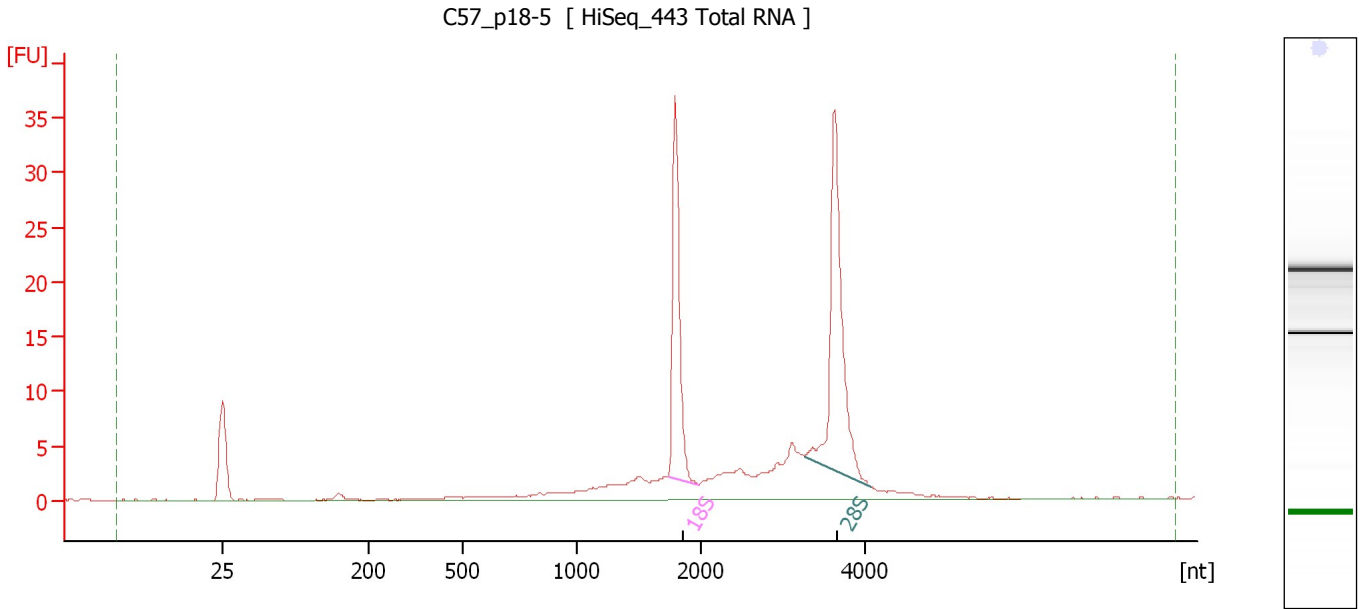
Fragment table for sample 7 : C57_p18-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,592	1,977	24.8	16.8
28S	3,324	4,122	27.2	18.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
Modified: 3/29/2016 12:15:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C57_p18-5

RNA Area: 138.0 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 105 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.70

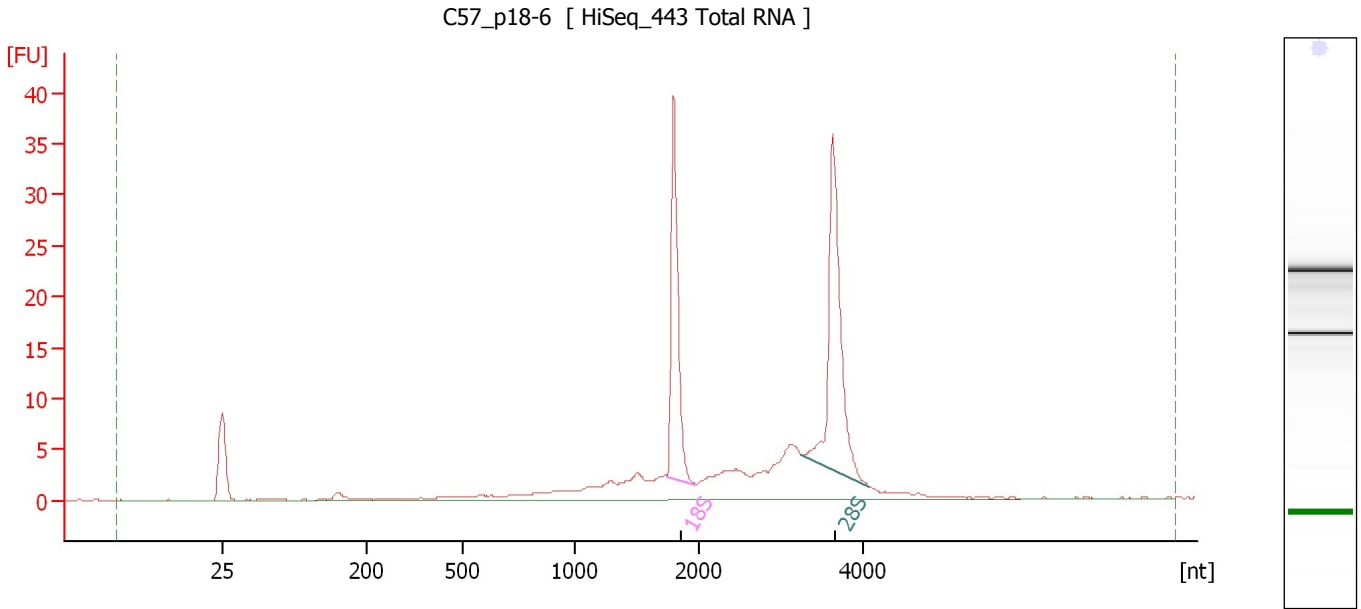
Fragment table for sample 8 : C57_p18-5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,737	1,977	26.5	19.2
28S	3,259	4,069	37.5	27.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
 Modified: 3/29/2016 12:15:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C57_p18-6

RNA Area:	152.3	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	116 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.50

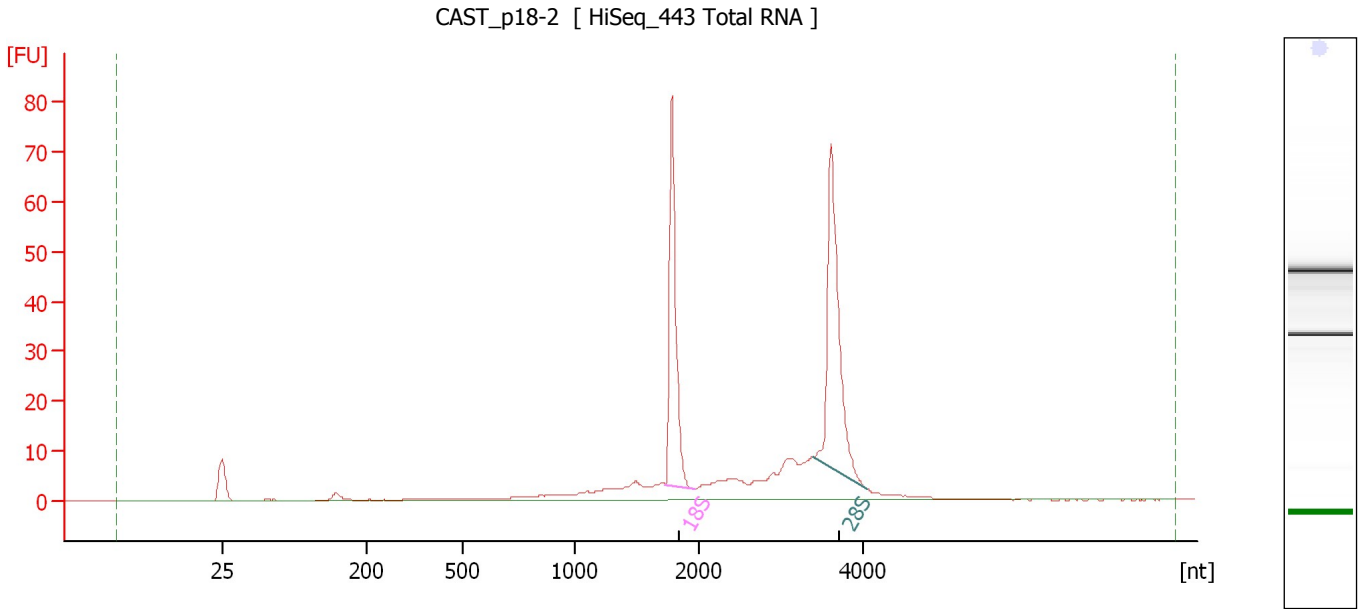
Fragment table for sample 9 : C57_p18-6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	1,967	28.8	18.9
28S	3,260	4,086	38.3	25.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
 Modified: 3/29/2016 12:15:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CAST_p18-2

RNA Area:	267.0	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	203 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.90

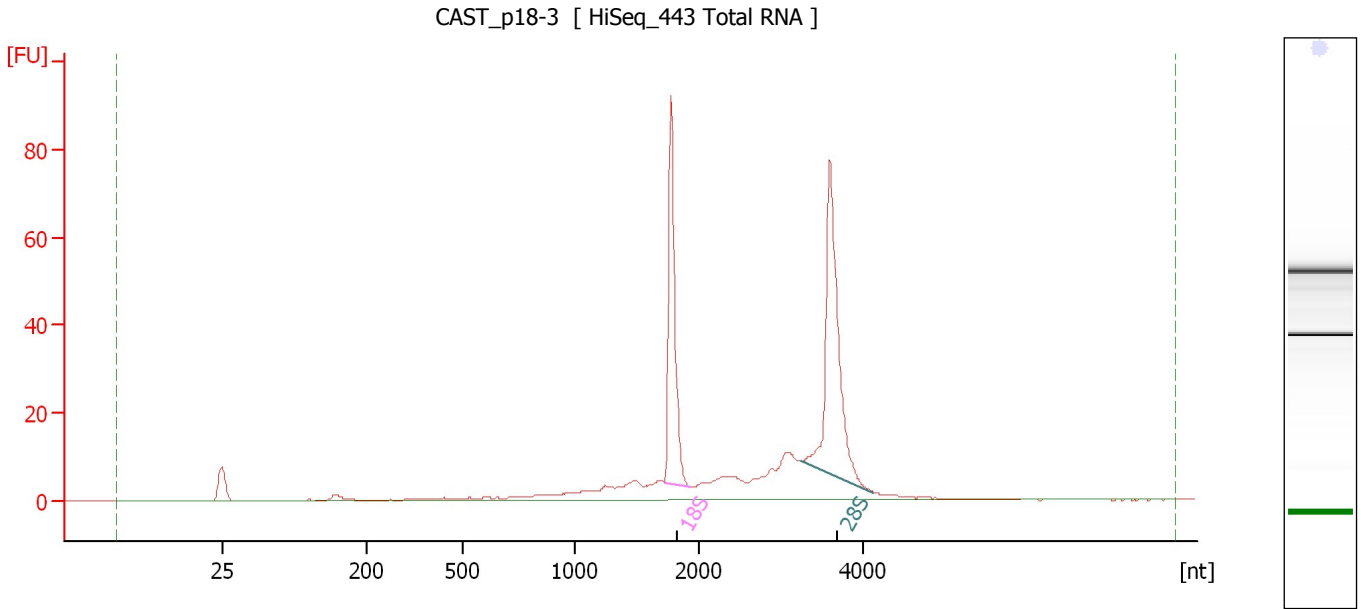
Fragment table for sample 10 : CAST_p18-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,727	1,959	59.1	22.1
28S	3,391	4,046	73.4	27.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
Modified: 3/29/2016 12:15:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CAST_p18-3

RNA Area: 312.6 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 238 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.80

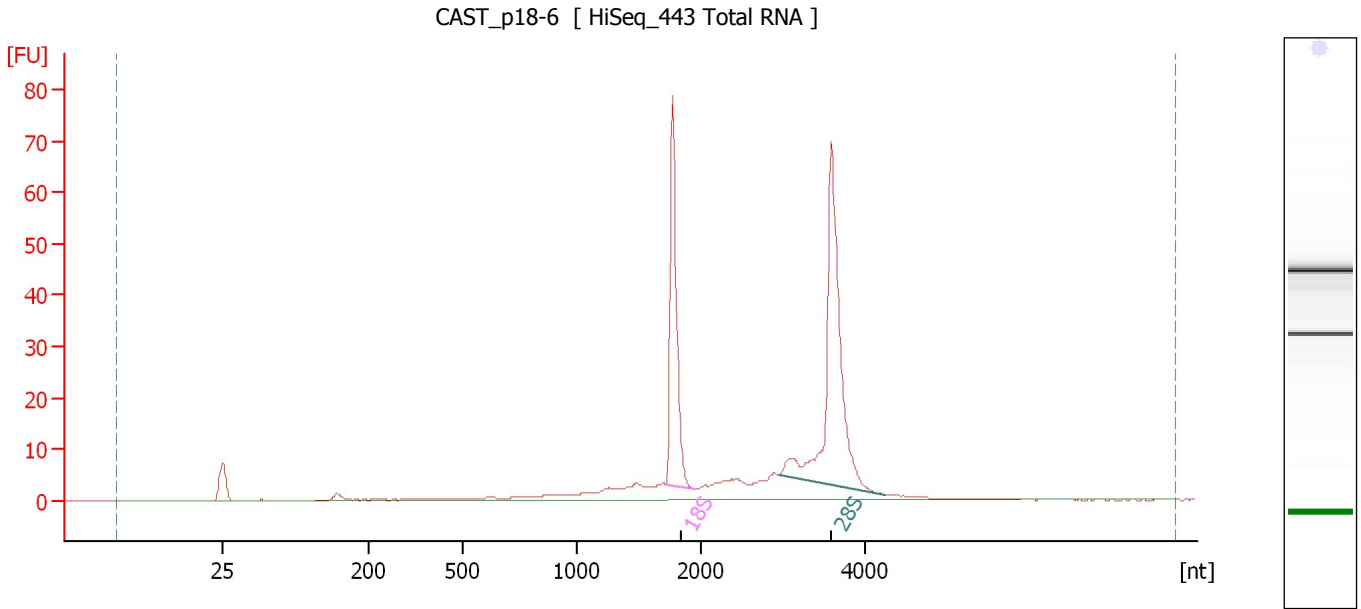
Fragment table for sample 11 : CAST_p18-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,719	1,942	66.9	21.4
28S	3,260	4,138	89.6	28.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
 Modified: 3/29/2016 12:15:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : CAST_p18-6

RNA Area:	254.7	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	194 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.10

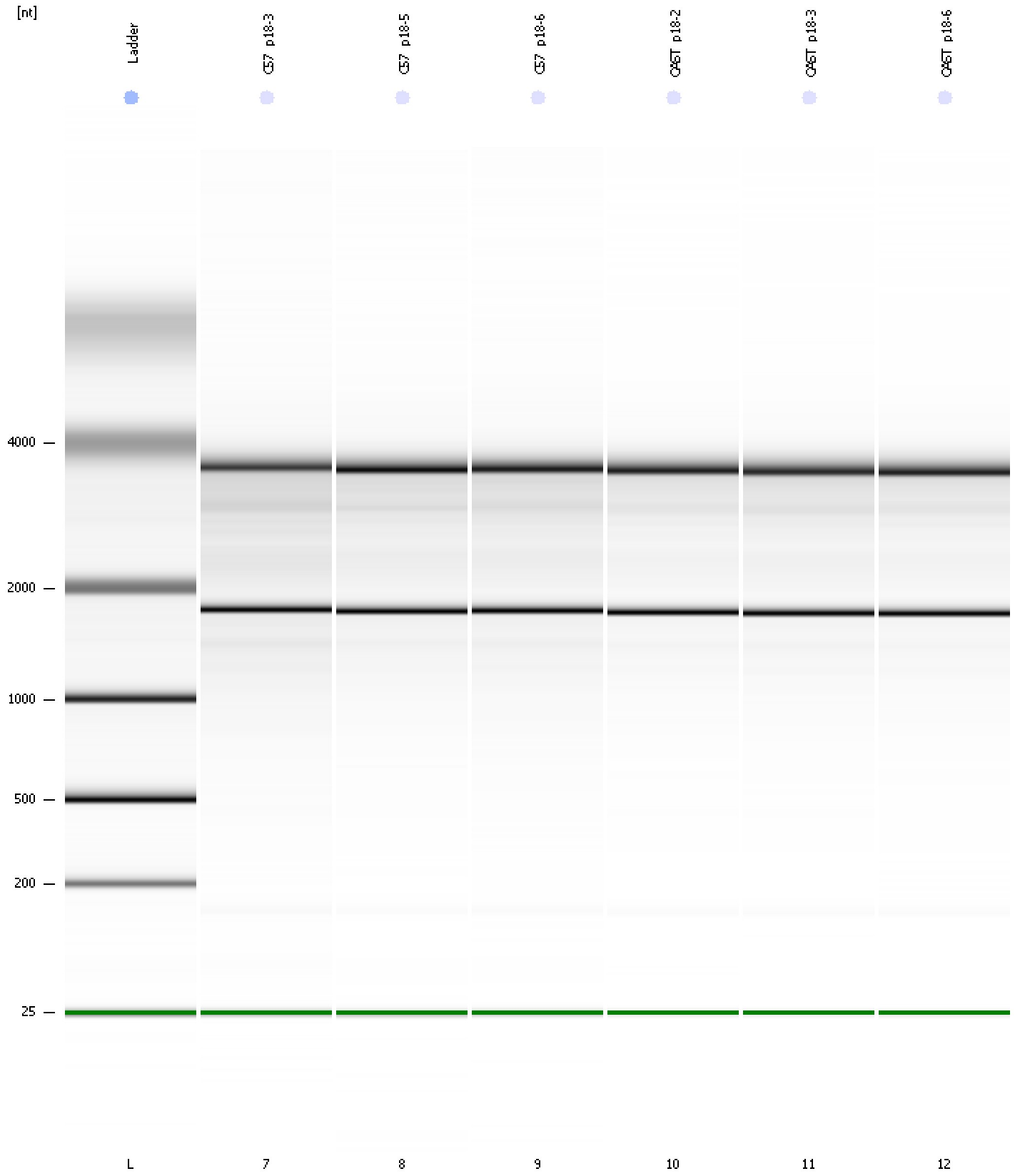
Fragment table for sample 12 : CAST_p18-6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,720	1,943	56.9	22.3
28S	2,945	4,252	92.2	36.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
Modified: 3/29/2016 12:15:31 PM

Gel Image

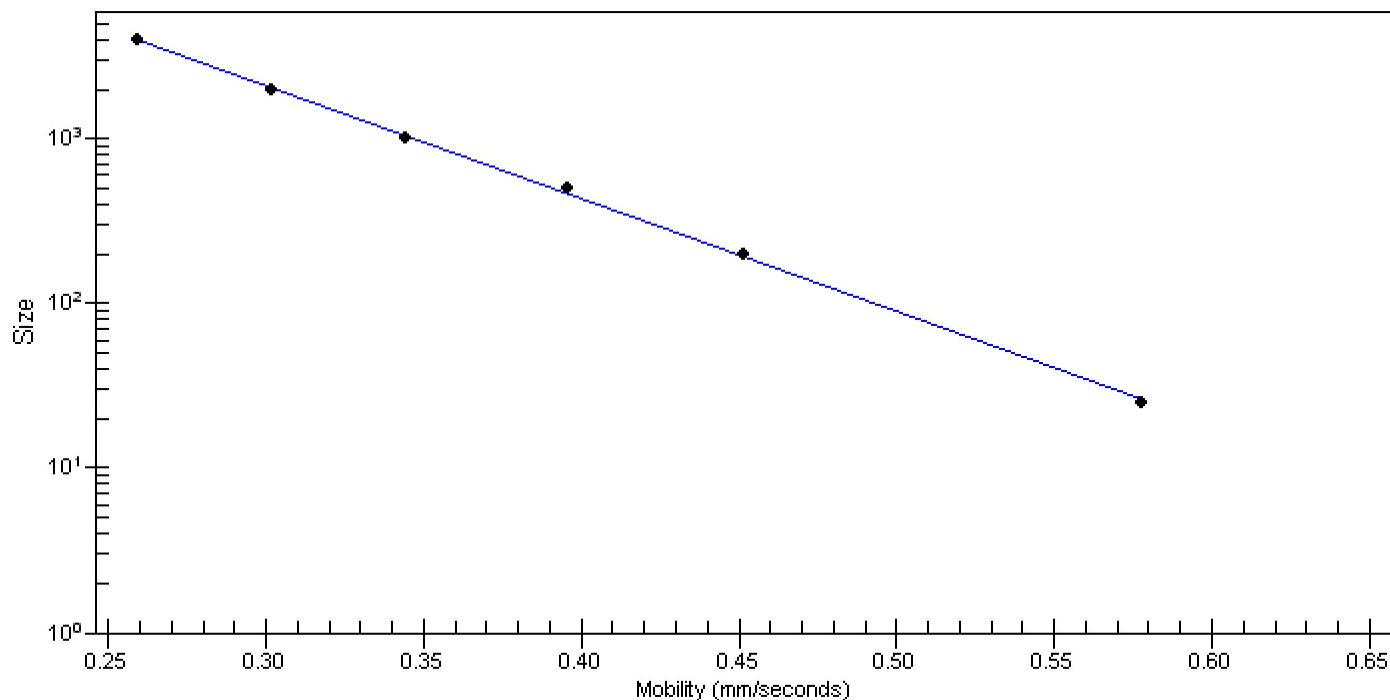


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
Modified: 3/29/2016 12:15:31 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...data\2016-03-29\2016-03-29_002_HiSeq_443_TotalRNA_13-18.xad

Created: 3/29/2016 11:43:46 AM
 Modified: 3/29/2016 12:15:31 PM

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		3/29/2016 12:06:50 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\2016-03-29\2016-03-29_002.xad)		Instrument	Run		3/29/2016 11:43:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/29/2016 11:43:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/29/2016 11:43:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/29/2016 11:43:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/29/2016 11:43:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/29/2016 11:43:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/29/2016 11:43:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1