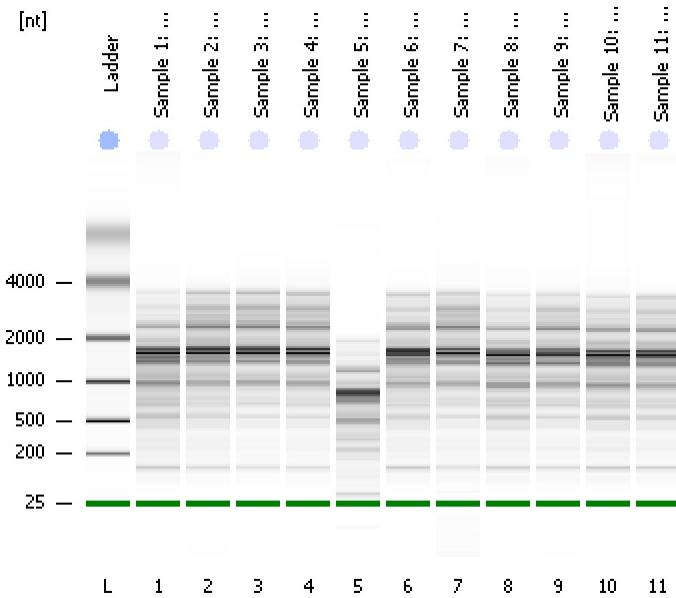


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
Modified: 10/19/2015 11:45:35 AM

Electrophoresis File Run Summary



Instrument Information:

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

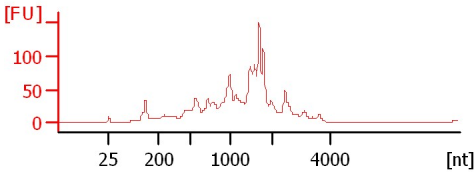
Assay Information:

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)
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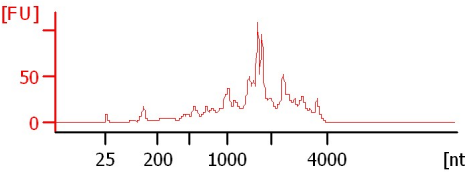
Chip Information:

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

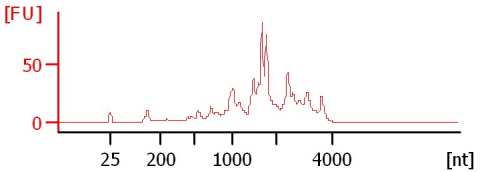
Sample 1: WT 1
HiSeq_231 Total RNA QC
RIN: 3.10



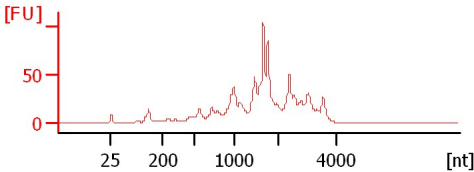
Sample 2: WT 2
HiSeq_231 Total RNA QC
RIN: 3.30



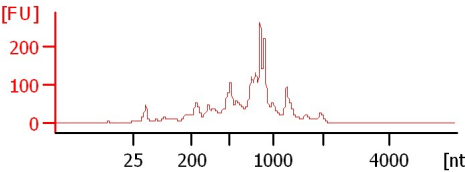
Sample 3: WT 3
HiSeq_231 Total RNA QC
RIN: 3.70



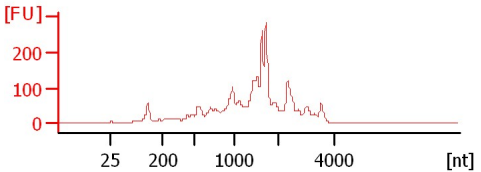
Sample 4: WT 4
HiSeq_231 Total RNA QC
RIN: 3.50



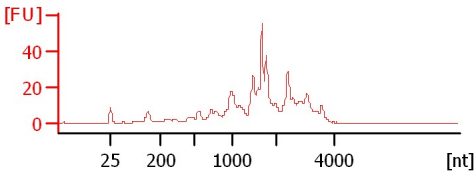
Sample 5: WT 5
HiSeq_231 Total RNA QC
RIN: 3



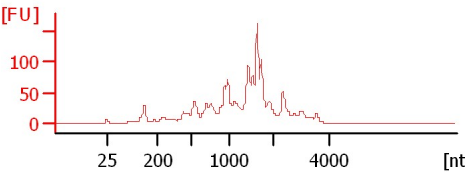
Sample 6: WT EPA 1
HiSeq_231 Total RNA QC
RIN: 3.50



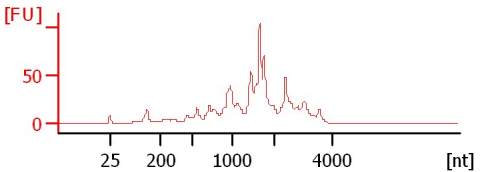
Sample 7: WT EPA 2
HiSeq_231 Total RNA QC
RIN: 3.80



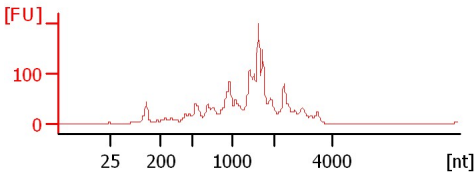
Sample 8: WT EPA 3
HiSeq_231 Total RNA QC
RIN: 4.40



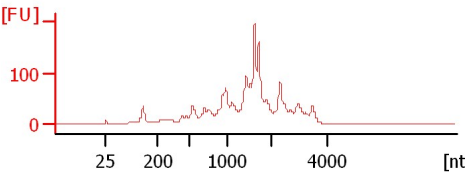
Sample 9: WT EPA 4
HiSeq_231 Total RNA QC
RIN: 3.60



Sample 10: WT EPA 5
HiSeq_231 Total RNA QC
RIN: 4.40



Sample 11: WT DHA 1
HiSeq_231 Total RNA QC
RIN: 3.30



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1: WT 1	HiSeq_231 Total RNA QC	✓	RIN: 3.10	
Sample 2: WT 2	HiSeq_231 Total RNA QC	✓	RIN: 3.30	
Sample 3: WT 3	HiSeq_231 Total RNA QC	✓	RIN: 3.70	
Sample 4: WT 4	HiSeq_231 Total RNA QC	✓	RIN: 3.50	
Sample 5: WT 5	HiSeq_231 Total RNA QC	✓	RIN:3	
Sample 6: WT EPA 1	HiSeq_231 Total RNA QC	✓	RIN: 3.50	
Sample 7: WT EPA 2	HiSeq_231 Total RNA QC	✓	RIN: 3.80	
Sample 8: WT EPA 3	HiSeq_231 Total RNA QC	✓	RIN: 4.40	
Sample 9: WT EPA 4	HiSeq_231 Total RNA QC	✓	RIN: 3.60	
Sample 10: WT EPA 5	HiSeq_231 Total RNA QC	✓	RIN: 4.40	
Sample 11: WT DHA 1	HiSeq_231 Total RNA QC	✓	RIN: 3.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
Modified: 10/19/2015 11:45:35 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/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

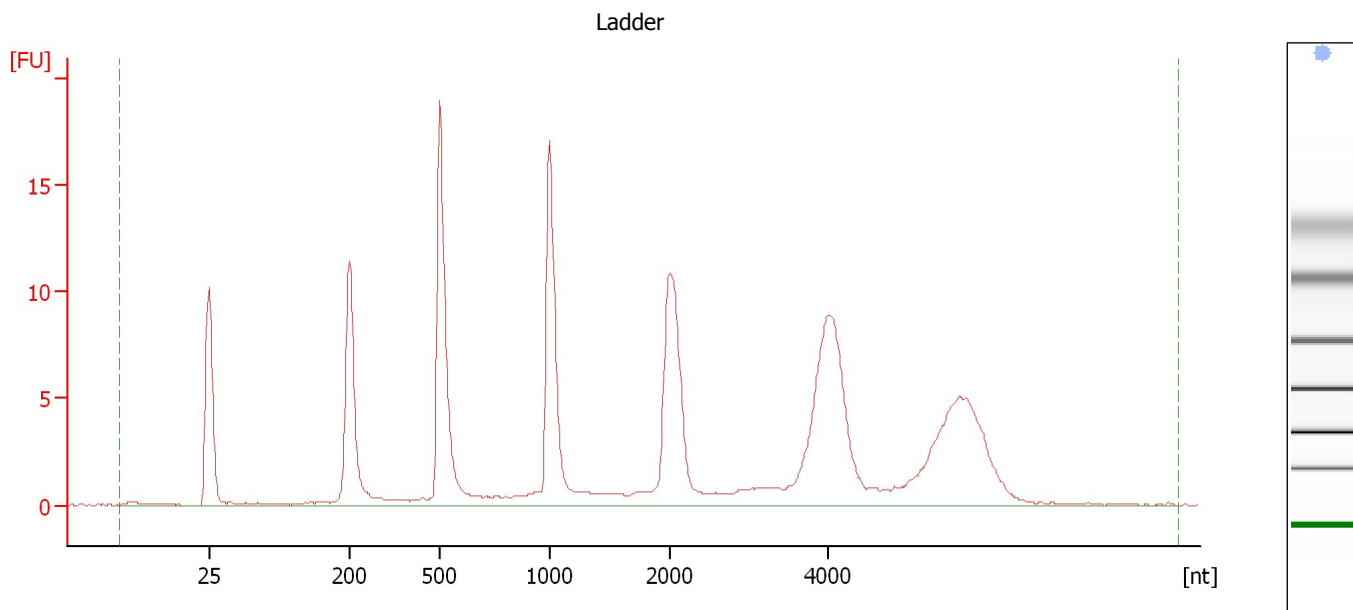
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary



Overall Results for Ladder

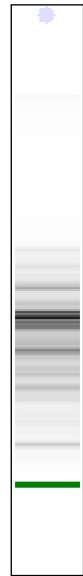
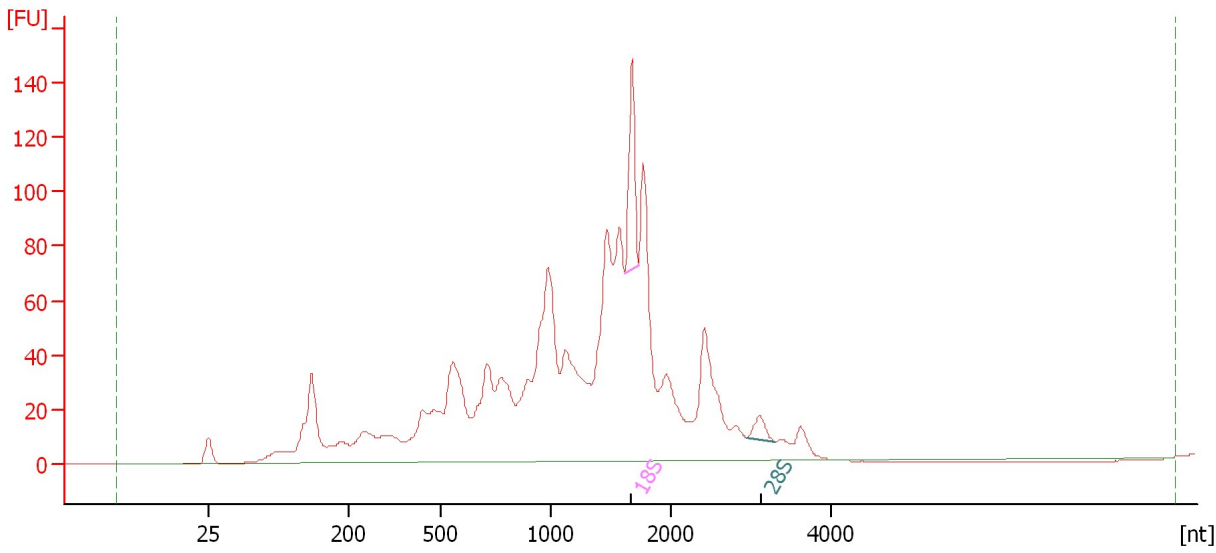
RNA Area:	166.0	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 1: WT 1 [HiSeq_231 Total RNA QC]



Overall Results for sample 1 : Sample 1: WT 1

RNA Area:	1,626.0	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	1,469 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 3.10

Fragment table for sample 1 : Sample 1: WT 1

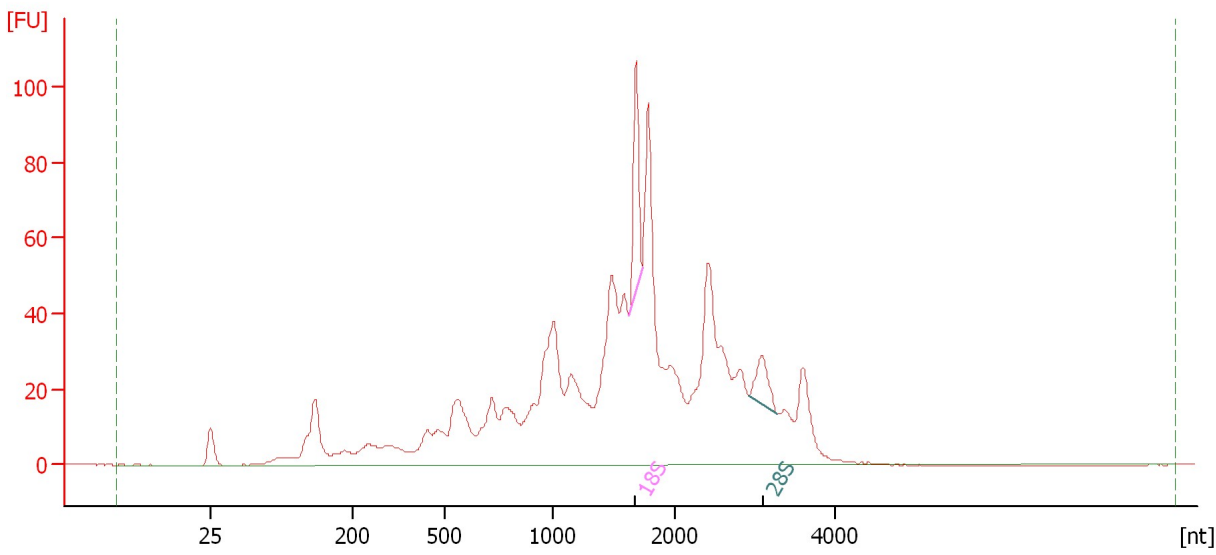
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,728	52.5	3.2
28S	2,944	3,294	10.6	0.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 2: WT 2 [HiSeq_231 Total RNA QC]



Overall Results for sample 2 : Sample 2: WT 2

RNA Area:	1,140.0	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	1,030 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 3.30

Fragment table for sample 2 : Sample 2: WT 2

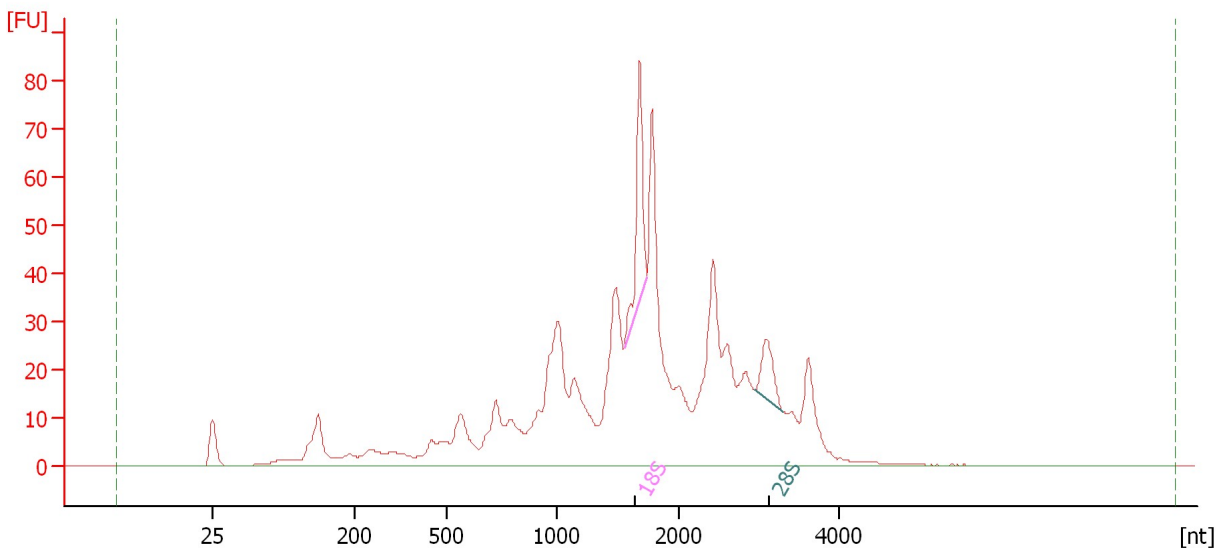
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	1,731	41.1	3.6
28S	2,915	3,264	17.5	1.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 3: WT 3 [HiSeq_231 Total RNA QC]



Overall Results for sample 3 : Sample 3: WT 3

RNA Area:	835.7	RNA Integrity Number (RIN):	3.7 (B.02.08)
RNA Concentration:	755 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 3.70

Fragment table for sample 3 : Sample 3: WT 3

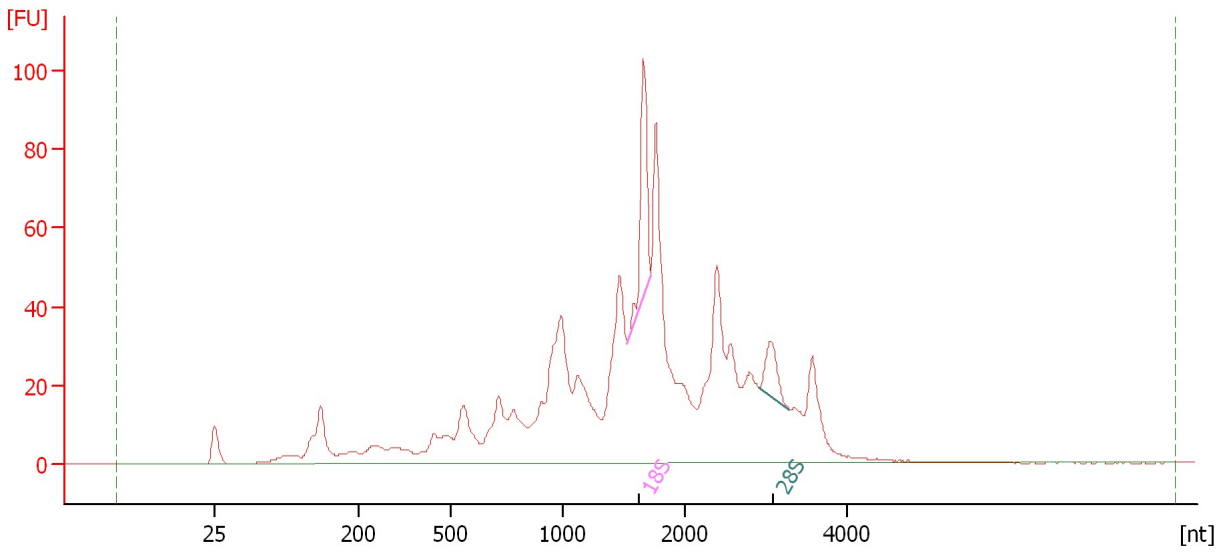
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,550	1,733	38.5	4.6
28S	2,941	3,301	15.6	1.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 4: WT 4 [HiSeq_231 Total RNA QC]



Overall Results for sample 4 : Sample 4: WT 4

RNA Area:	1,039.8	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	940 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 3.50

Fragment table for sample 4 : Sample 4: WT 4

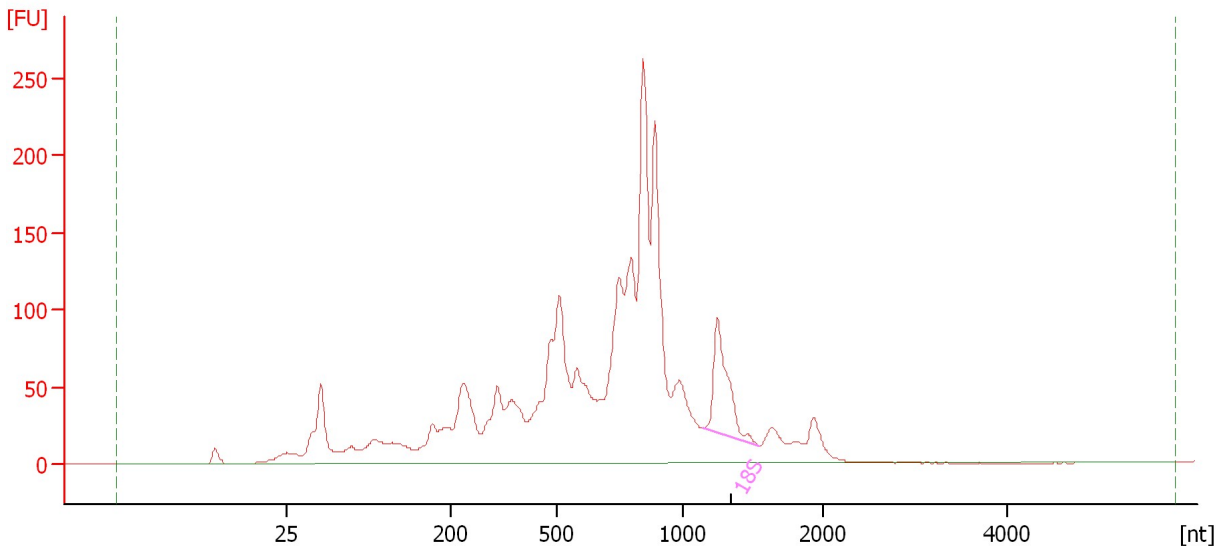
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,529	1,711	44.6	4.3
28S	2,912	3,283	17.5	1.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 5: WT 5 [HiSeq_231 Total RNA QC]



Overall Results for sample 5 : Sample 5: WT 5

RNA Area:	2,497.6	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	2,257 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:3

Fragment table for sample 5 : Sample 5: WT 5

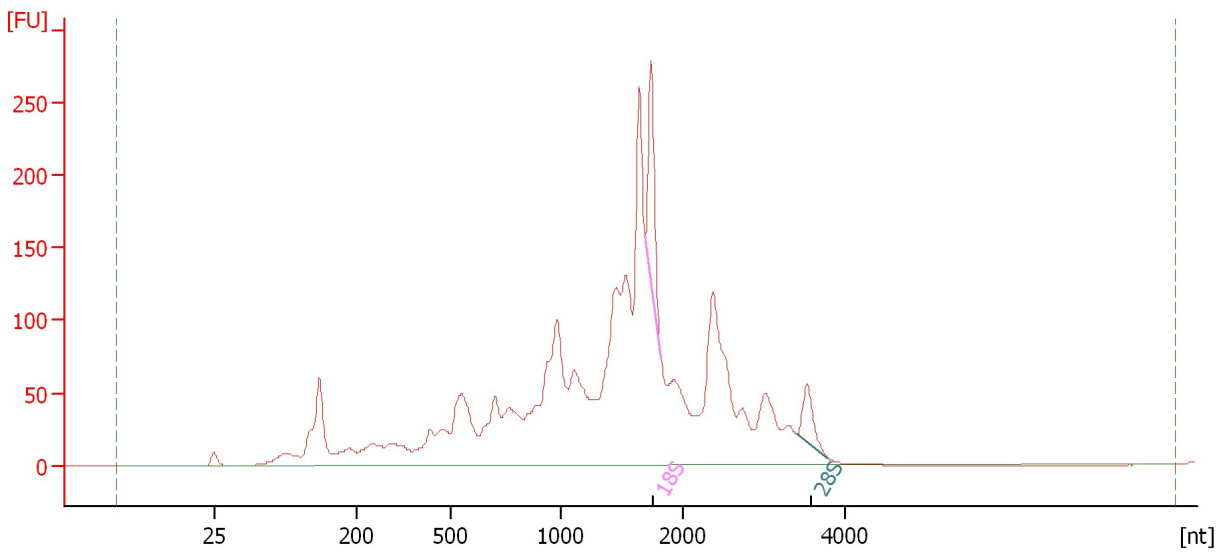
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,142	1,539	120.6	4.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 6: WT EPA 1 [HiSeq_231 Total RNA QC]



Overall Results for sample 6 : Sample 6: WT EPA 1

RNA Area:	2,839.5	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	2,566 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 3.50

Fragment table for sample 6 : Sample 6: WT EPA 1

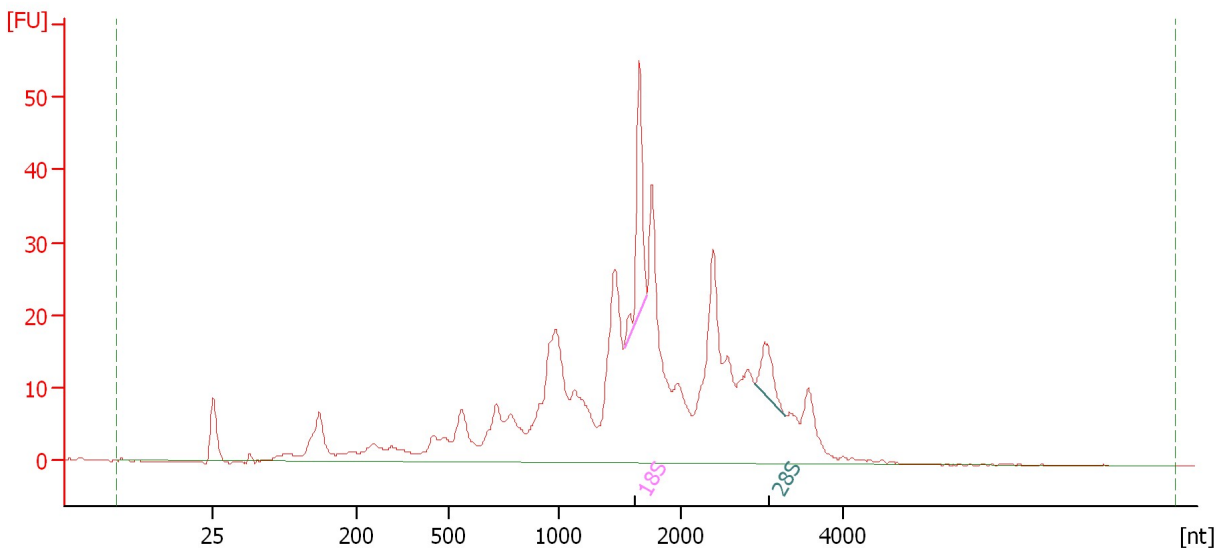
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	1,814	117.0	4.1
28S	3,404	3,789	42.6	1.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 7: WT EPA 2 [HiSeq_231 Total RNA QC]



Overall Results for sample 7 : Sample 7: WT EPA 2

RNA Area:	518.6	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	469 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 3.80

Fragment table for sample 7 : Sample 7: WT EPA 2

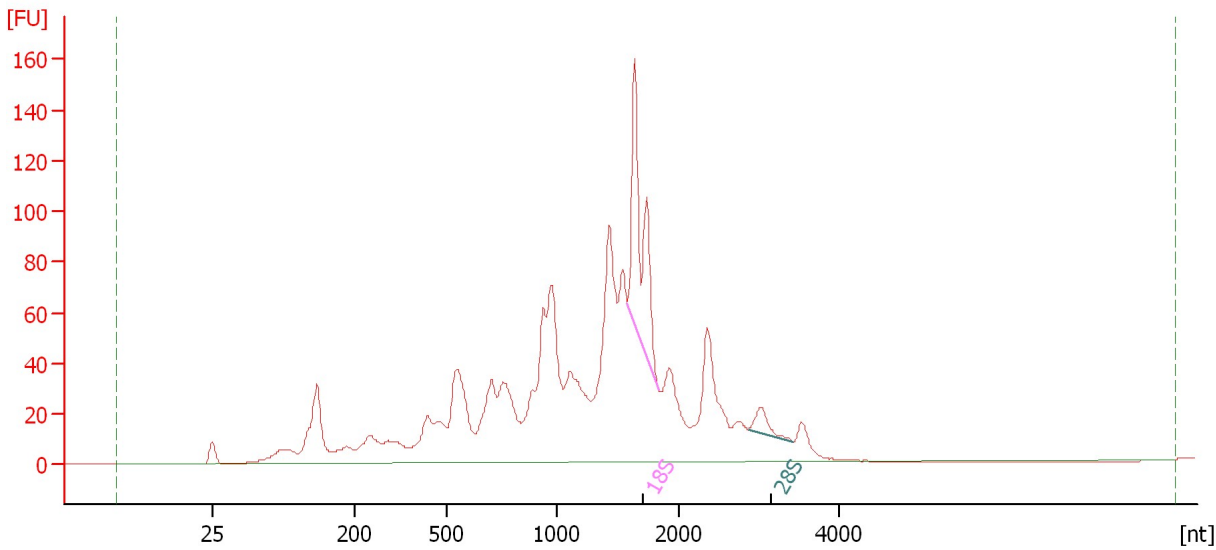
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,534	1,717	25.9	5.0
28S	2,913	3,286	9.5	1.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 8: WT EPA 3 [HiSeq_231 Total RNA QC]



Overall Results for sample 8 : Sample 8: WT EPA 3

RNA Area:	1,583.3	RNA Integrity Number (RIN):	4.4 (B.02.08)
RNA Concentration:	1,431 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 4.40

Fragment table for sample 8 : Sample 8: WT EPA 3

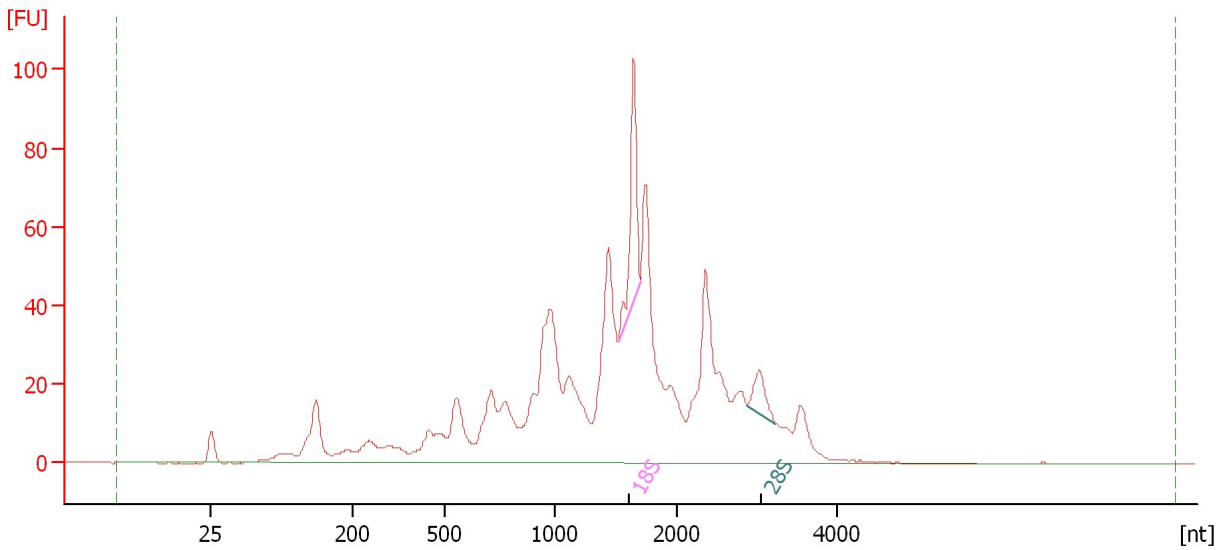
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,829	133.5	8.4
28S	2,860	3,421	14.1	0.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 9: WT EPA 4 [HiSeq_231 Total RNA QC]



Overall Results for sample 9 : Sample 9: WT EPA 4

RNA Area:	990.4	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	895 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 3.60

Fragment table for sample 9 : Sample 9: WT EPA 4

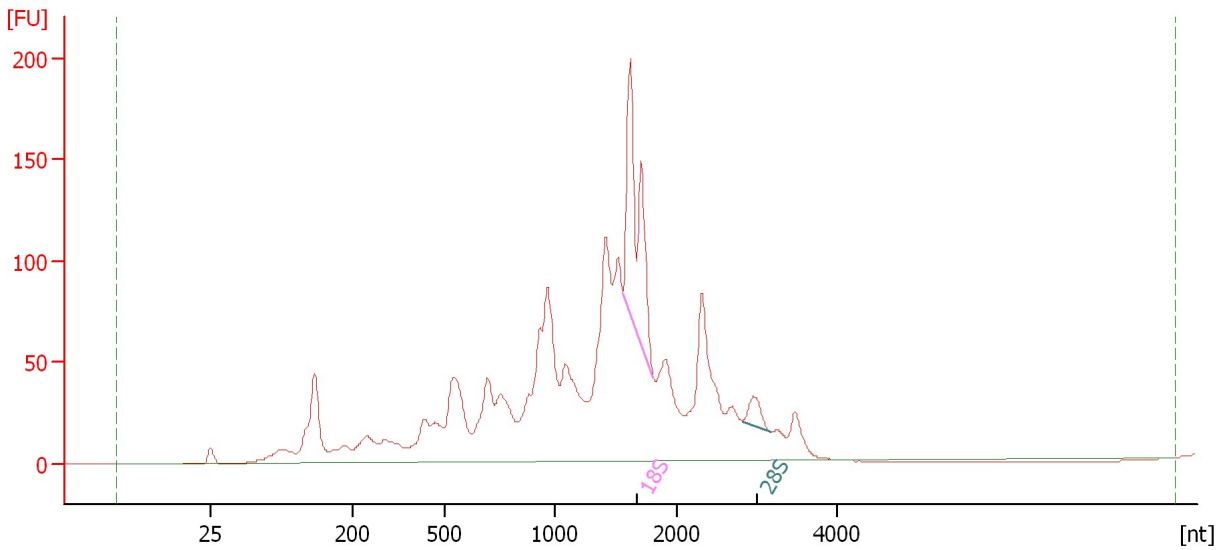
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,513	1,697	48.0	4.8
28S	2,874	3,222	13.6	1.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 10: WT EPA 5 [HiSeq_231 Total RNA QC]



Overall Results for sample 10 : Sample 10: WT EPA 5

RNA Area:	2,035.5	RNA Integrity Number (RIN):	4.4 (B.02.08)
RNA Concentration:	1,840 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 4.40

Fragment table for sample 10 : Sample 10: WT EPA 5

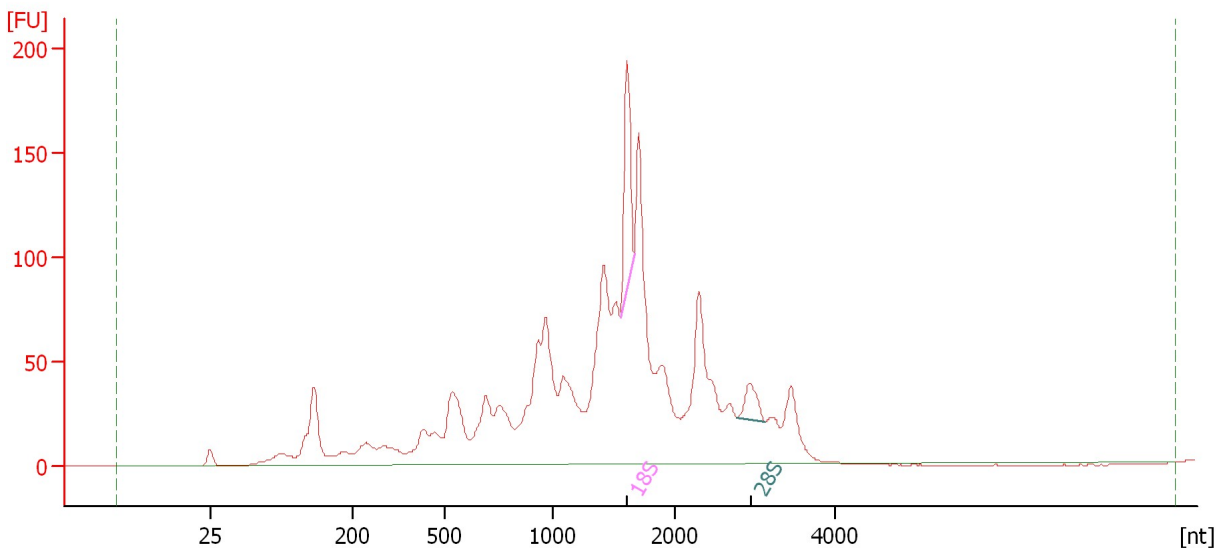
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,557	1,802	174.8	8.6
28S	2,808	3,169	18.4	0.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 AM

Electropherogram Summary Continued ...

Sample 11: WT DHA 1 [HiSeq_231 Total RNA QC]



Overall Results for sample 11 : Sample 11: WT DHA 1

RNA Area:	1,894.0	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	1,712 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 3.30

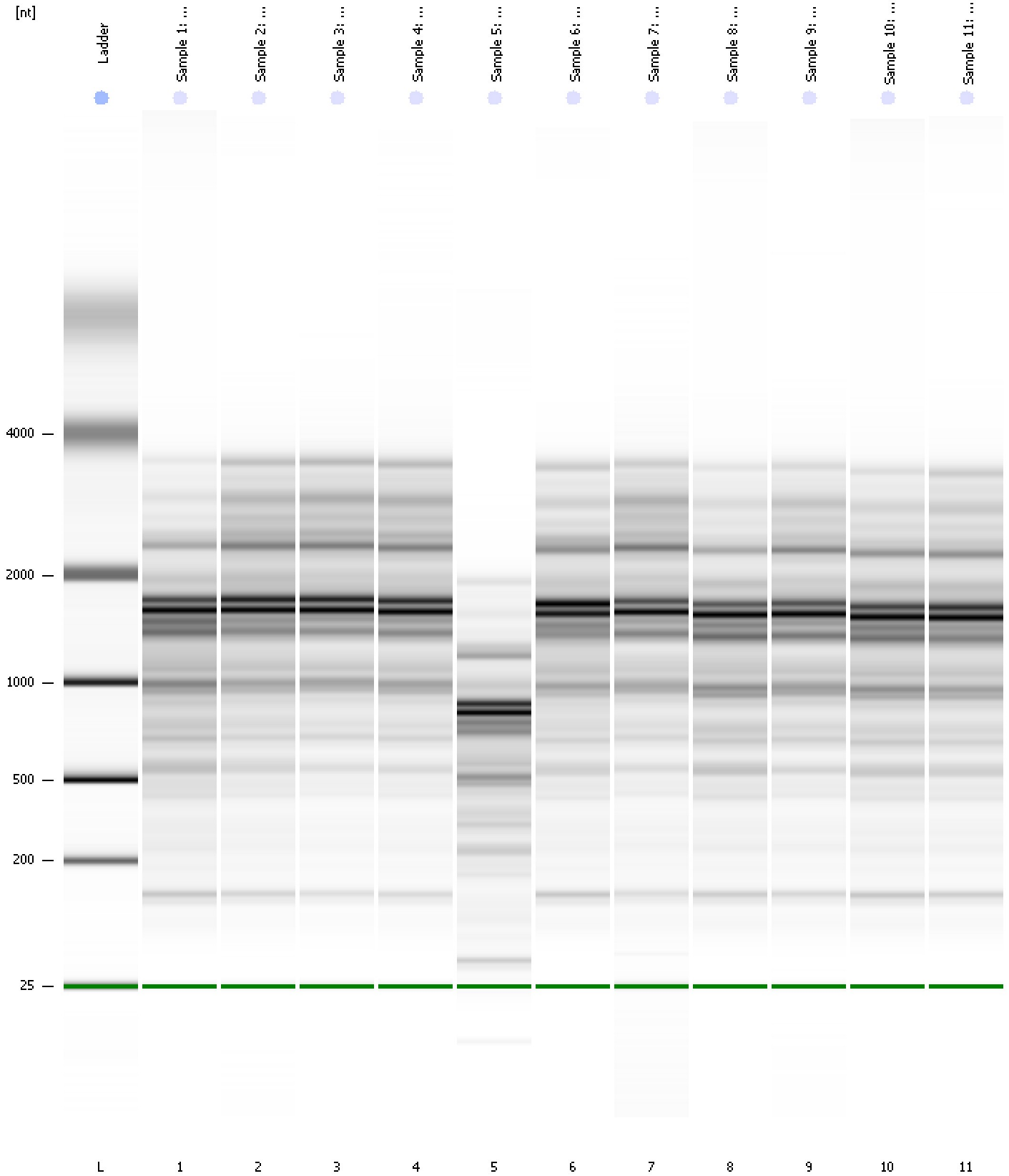
Fragment table for sample 11 : Sample 11: WT DHA 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,546	1,660	75.3	4.0
28S	2,781	3,130	23.2	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
Modified: 10/19/2015 11:45:35 AM

Gel Image

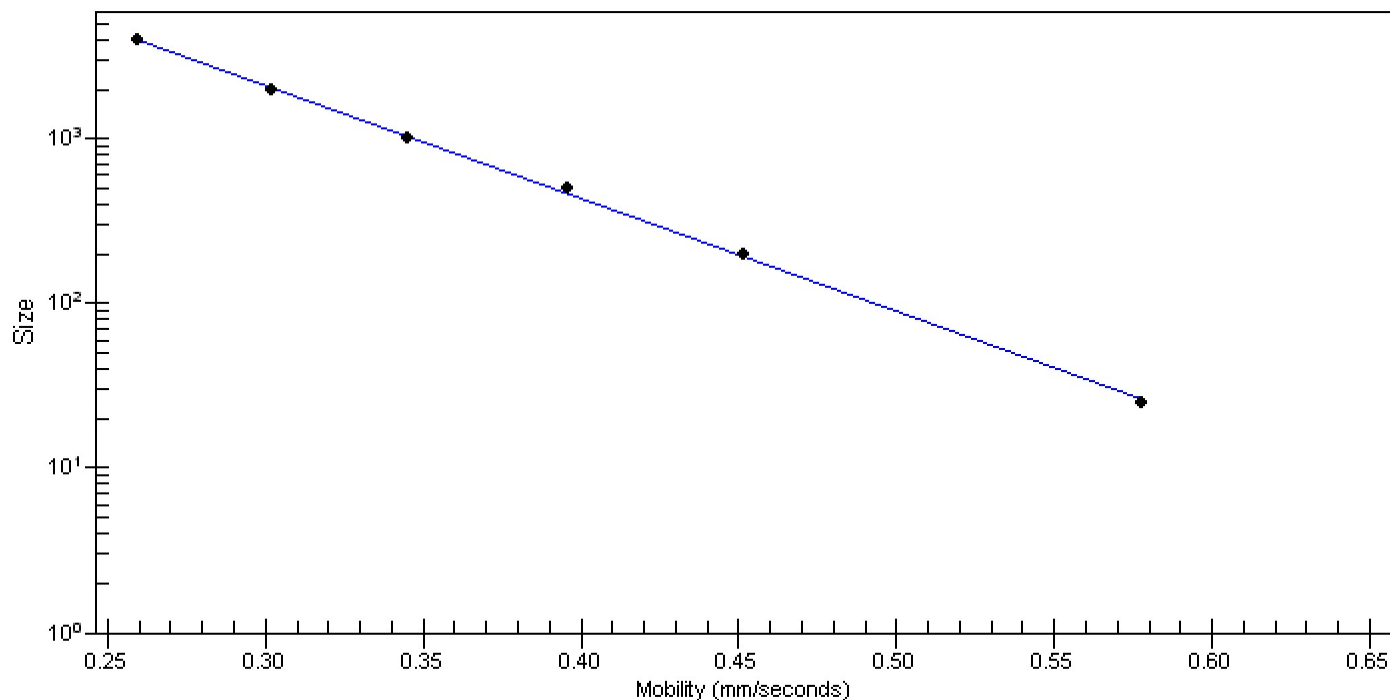


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
Modified: 10/19/2015 11:45:35 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2015-10-19\2015-10-19_001_HiSeq_231_TotalRNAQC_1-11.xad

Created: 10/19/2015 10:33:05 AM
 Modified: 10/19/2015 11:45:35 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 10:56:52 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_001.xad)		Instrument	Run		10/19/2015 10:33:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/19/2015 10:33:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/19/2015 10:33:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/19/2015 10:33:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/19/2015 10:33:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/19/2015 10:33:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/19/2015 10:33:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1