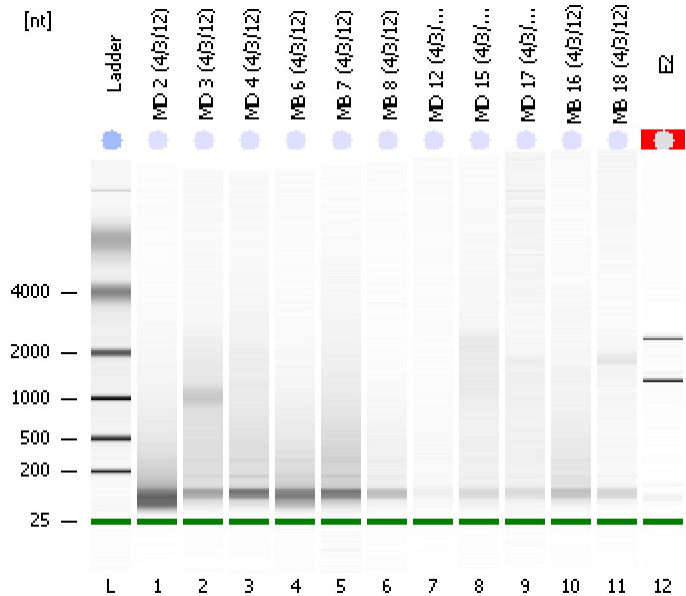


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 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

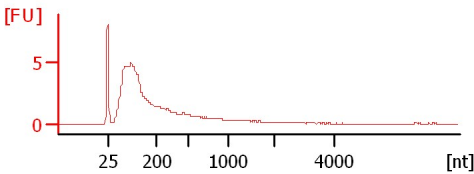
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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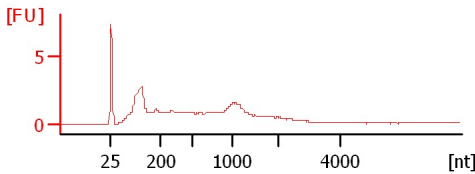
Chip Information:

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

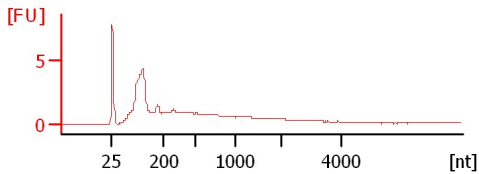
MD 2 (4/3/12)
RIN: 2.50



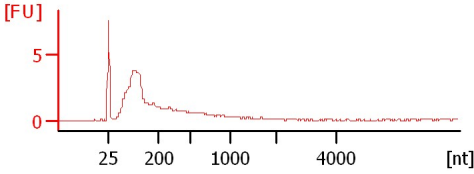
MD 3 (4/3/12)
RIN: 2.30



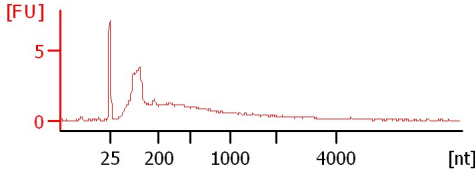
MD 4 (4/3/12)
RIN: 2.40



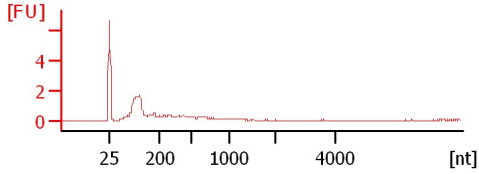
MB 6 (4/3/12)
RIN: 2.40



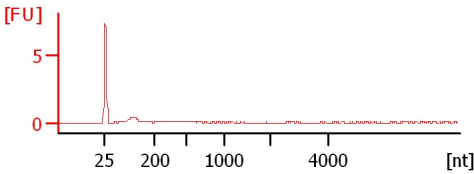
MB 7 (4/3/12)
RIN: 2.40



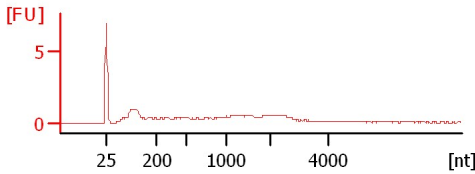
MB 8 (4/3/12)
RIN: 2.20



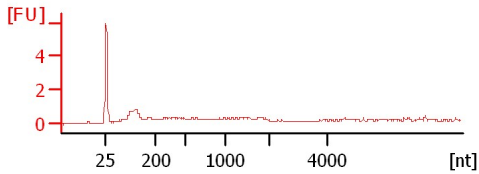
MD 12 (4/3/12)
RIN: 1



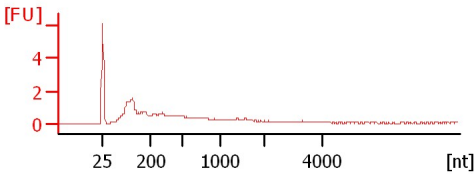
MD 15 (4/3/12)
RIN: 1.40



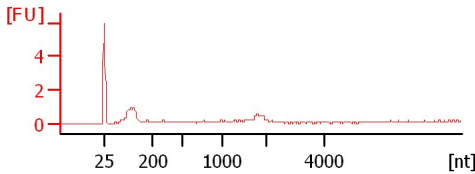
MD 17 (4/3/12)
RIN: 1.30



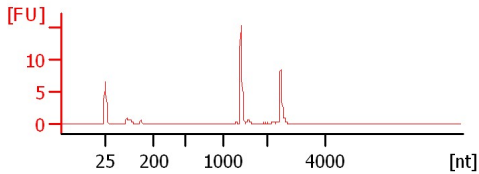
MB 16 (4/3/12)
RIN: 2.20



MB 18 (4/3/12)
RIN: 1.60



E2
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
MD 2 (4/3/12)		✓	RIN: 2.50	
MD 3 (4/3/12)		✓	RIN: 2.30	
MD 4 (4/3/12)		✓	RIN: 2.40	
MB 6 (4/3/12)		✓	RIN: 2.40	
MB 7 (4/3/12)		✓	RIN: 2.40	
MB 8 (4/3/12)		✓	RIN: 2.20	
MD 12 (4/3/12)		✓	RIN:1	
MD 15 (4/3/12)		✓	RIN: 1.40	
MD 17 (4/3/12)		✓	RIN: 1.30	
MB 16 (4/3/12)		✓	RIN: 2.20	
MB 18 (4/3/12)		✓	RIN: 1.60	
E2		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 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/ 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

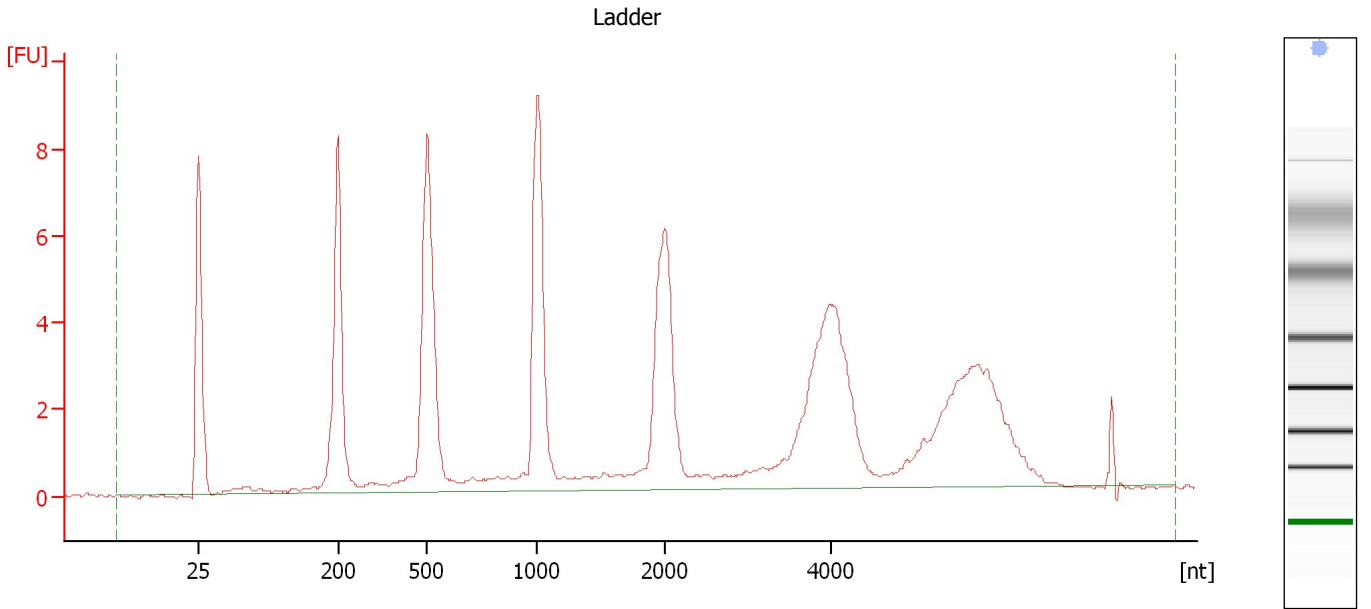
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary



Overall Results for Ladder

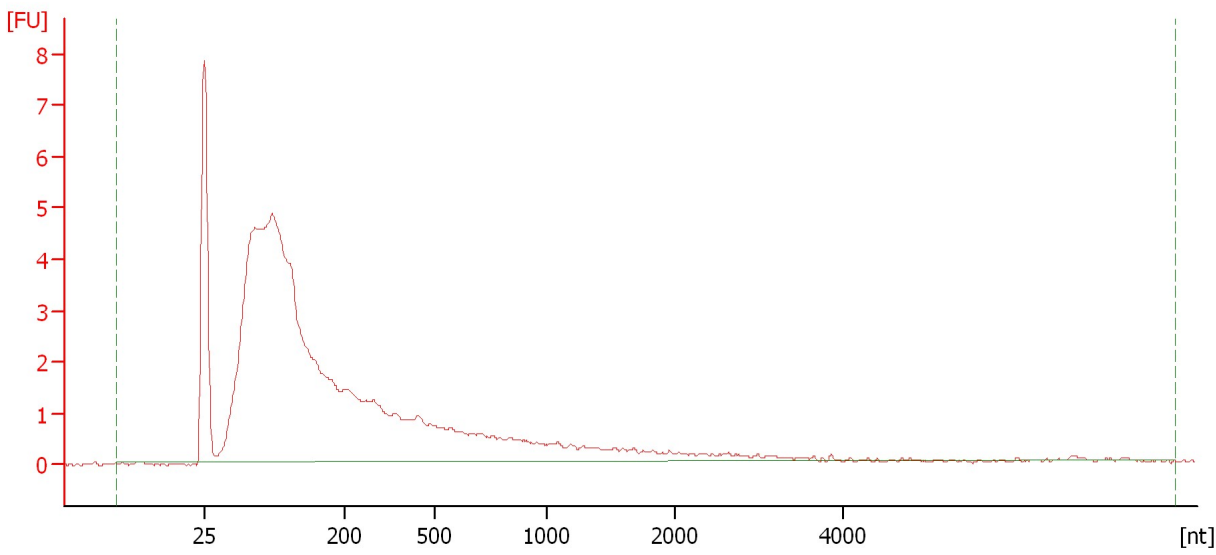
RNA Area:	101.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MD 2 (4/3/12)



Overall Results for sample 1 : MD 2 (4/3/12)

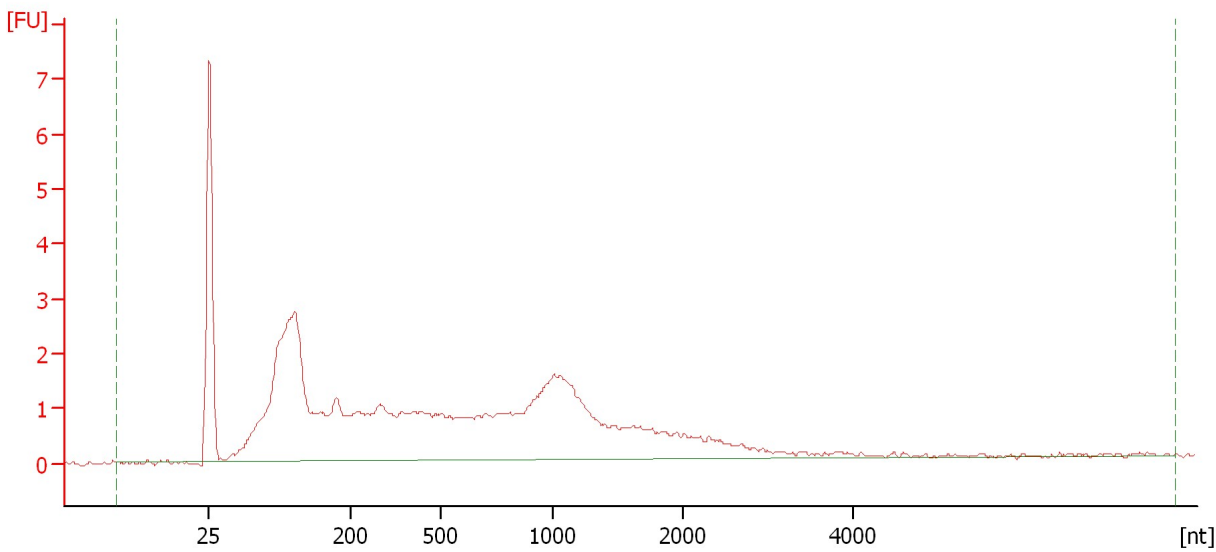
RNA Area:	86.1	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	127 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MD 3 (4/3/12)



Overall Results for sample 2 : MD 3 (4/3/12)

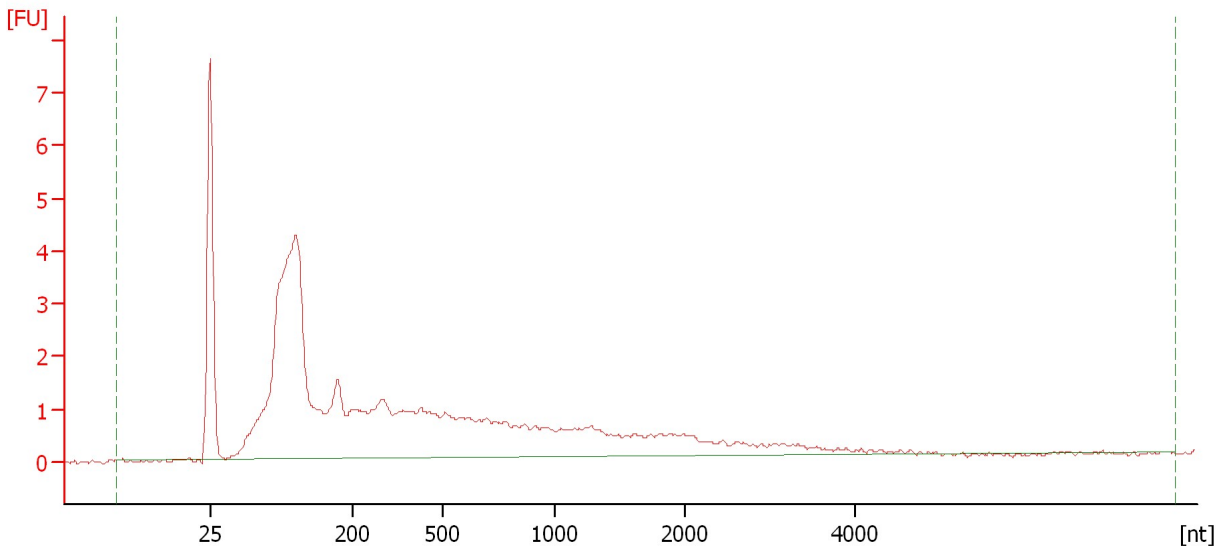
RNA Area:	61.0	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	90 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MD 4 (4/3/12)



Overall Results for sample 3 : MD 4 (4/3/12)

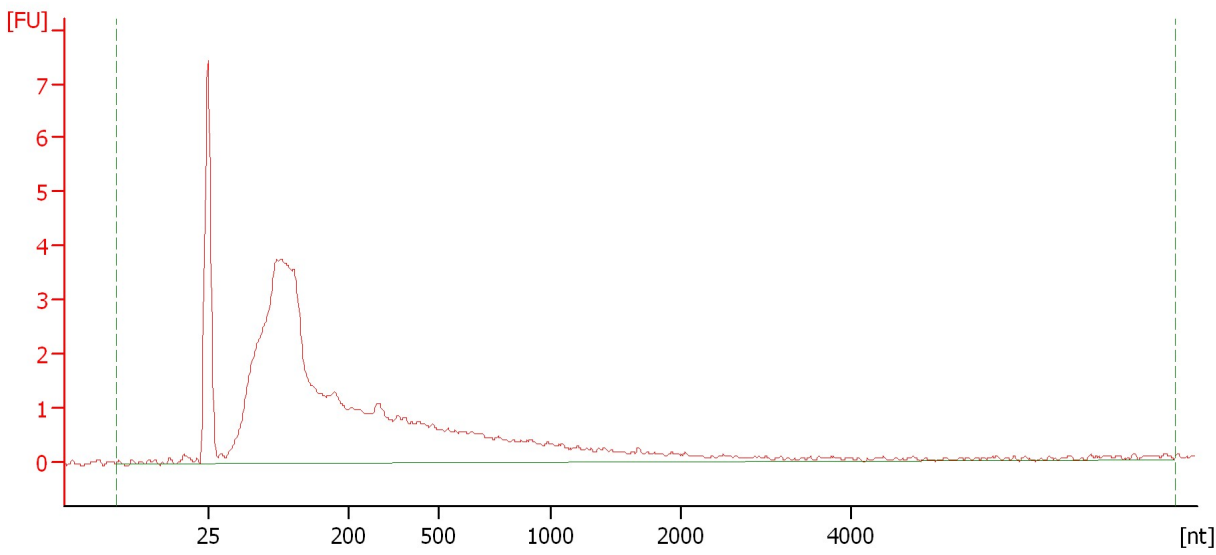
RNA Area:	61.6	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	91 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MB 6 (4/3/12)



Overall Results for sample 4 : MB 6 (4/3/12)

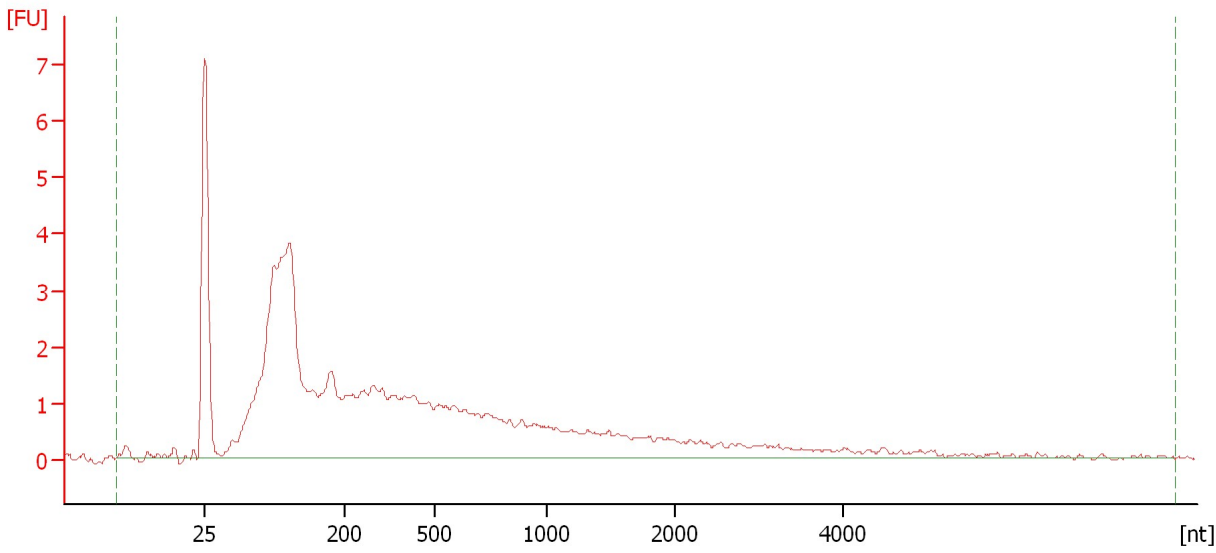
RNA Area:	62.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	92 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MB 7 (4/3/12)



Overall Results for sample 5 : MB 7 (4/3/12)

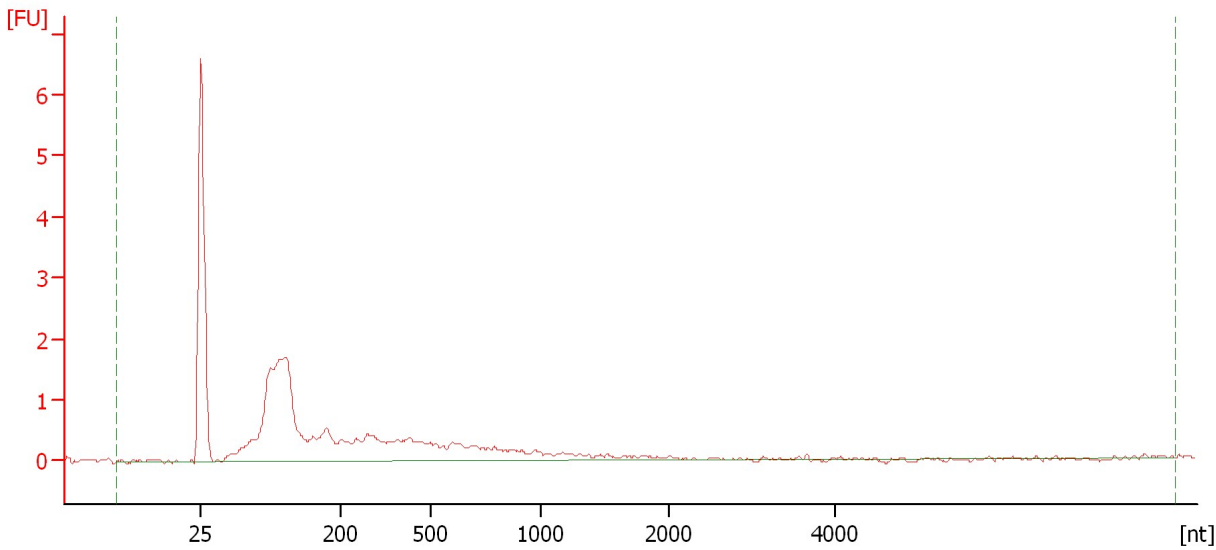
RNA Area:	69.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	102 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MB 8 (4/3/12)



Overall Results for sample 6 : MB 8 (4/3/12)

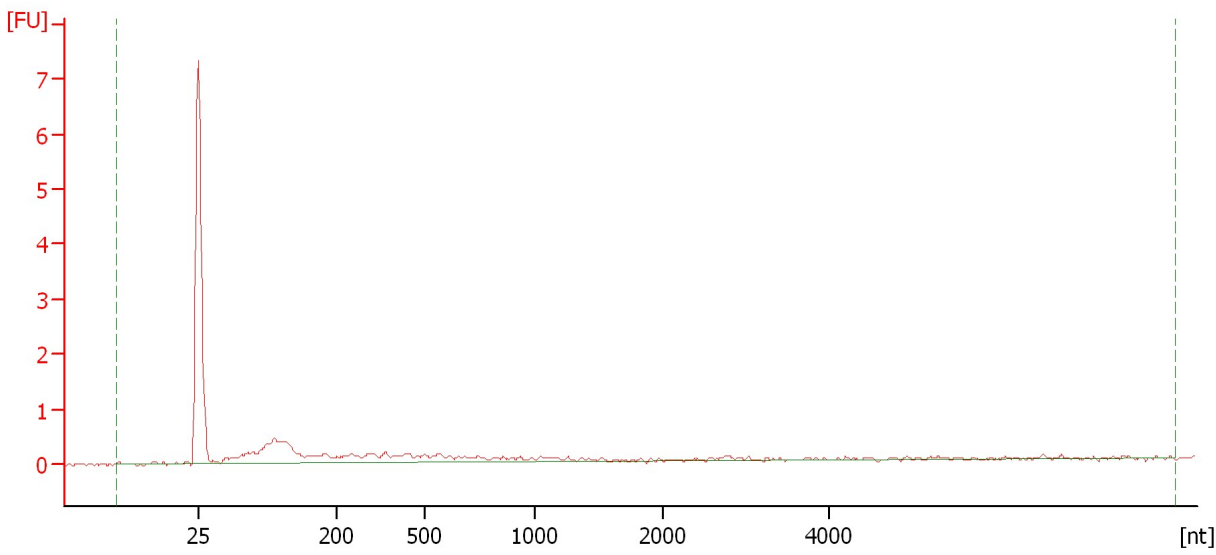
RNA Area:	21.3	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MD 12 (4/3/12)



Overall Results for sample 7 : MD 12 (4/3/12)

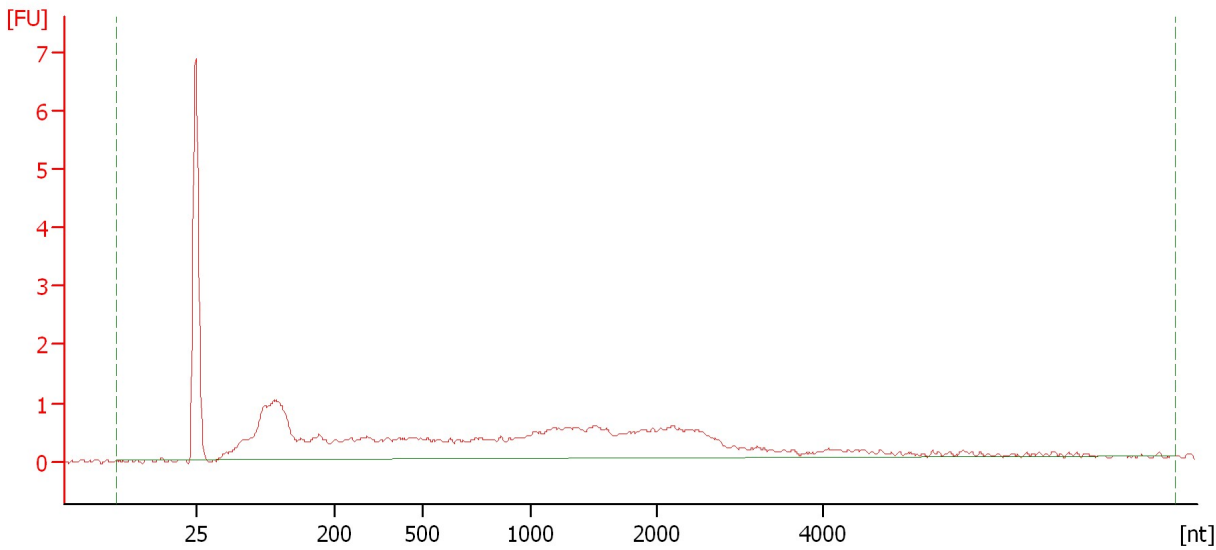
RNA Area:	8.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	13 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MD 15 (4/3/12)



Overall Results for sample 8 : MD 15 (4/3/12)

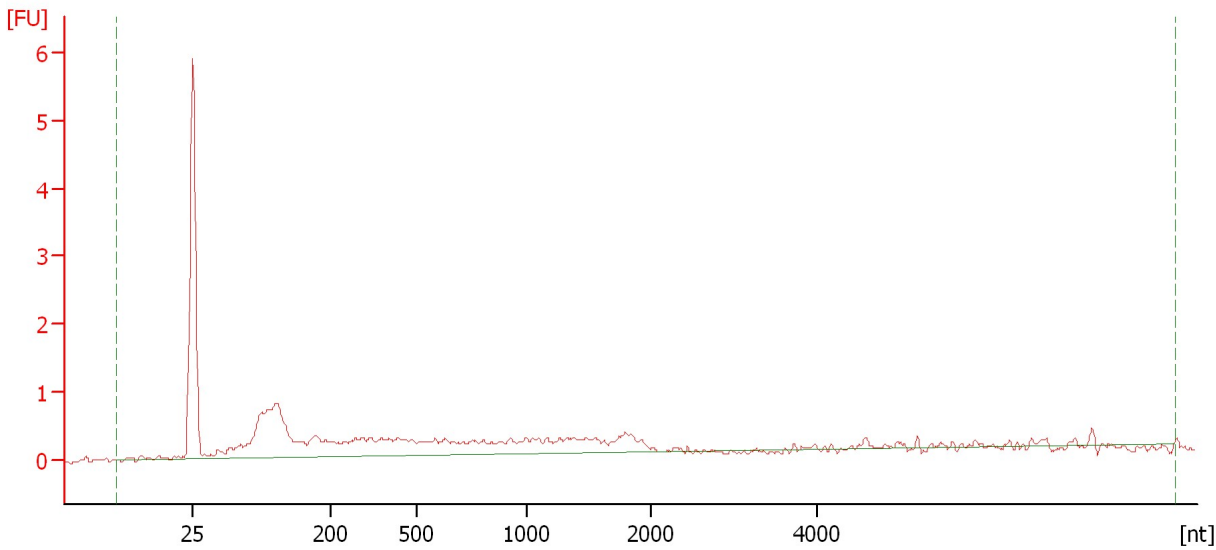
RNA Area:	31.1	RNA Integrity Number (RIN):	1.4 (B.02.08)
RNA Concentration:	46 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.40

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MD 17 (4/3/12)



Overall Results for sample 9 : MD 17 (4/3/12)

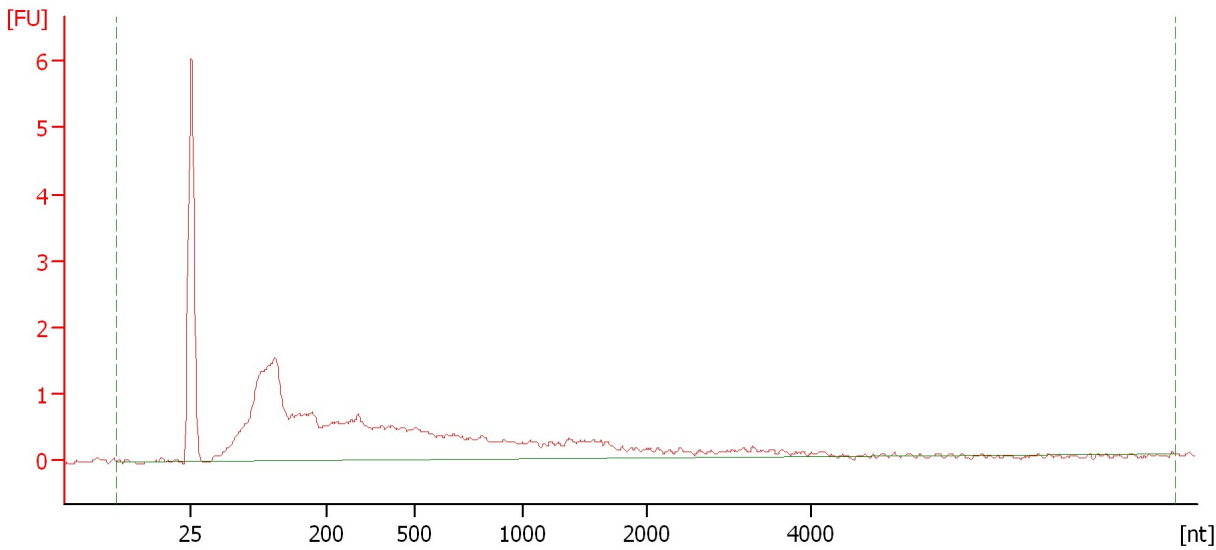
RNA Area:	16.4	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	24 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MB 16 (4/3/12)



Overall Results for sample 10 : MB 16 (4/3/12)

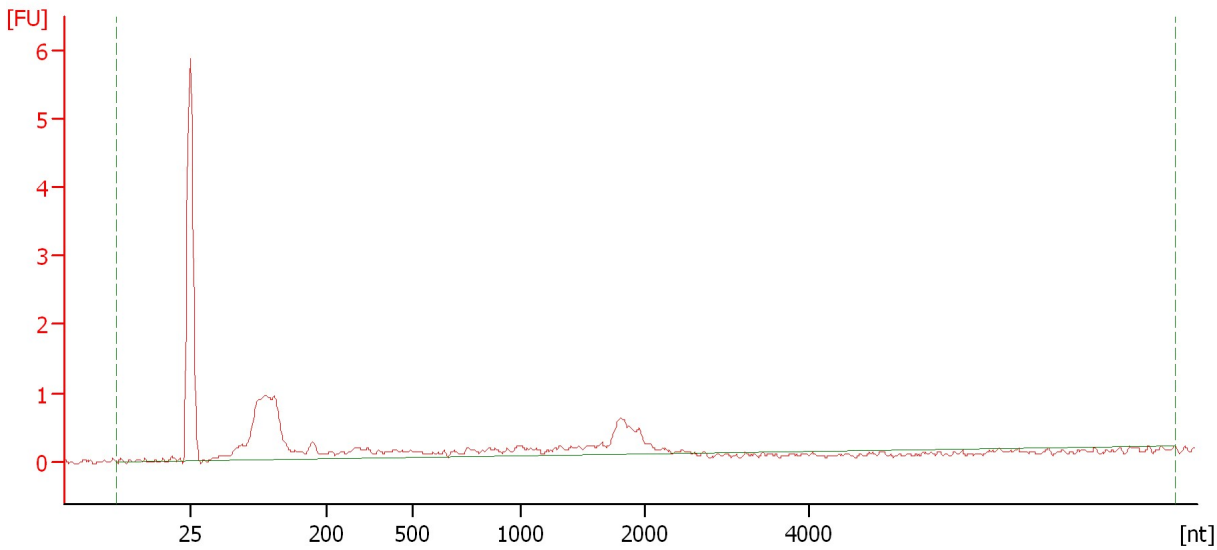
RNA Area:	29.9	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	44 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...

MB 18 (4/3/12)



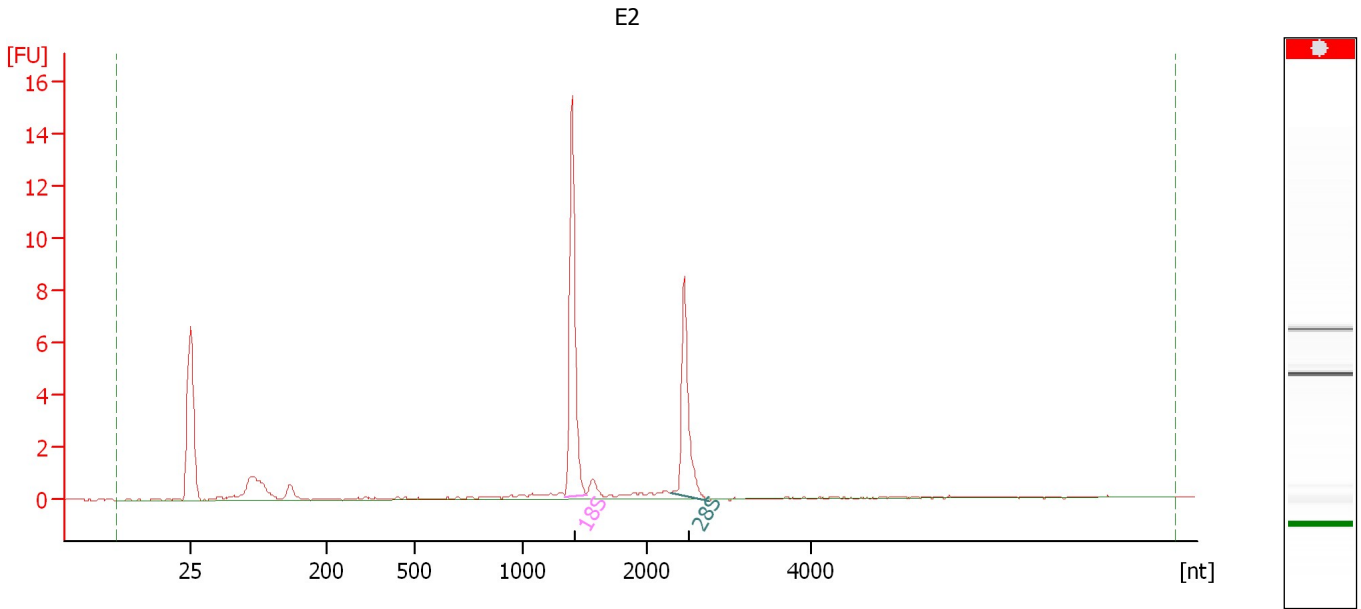
Overall Results for sample 11 : MB 18 (4/3/12)

RNA Area:	11.1	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	16 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : E2

RNA Area: 29.3 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 43 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN N/A

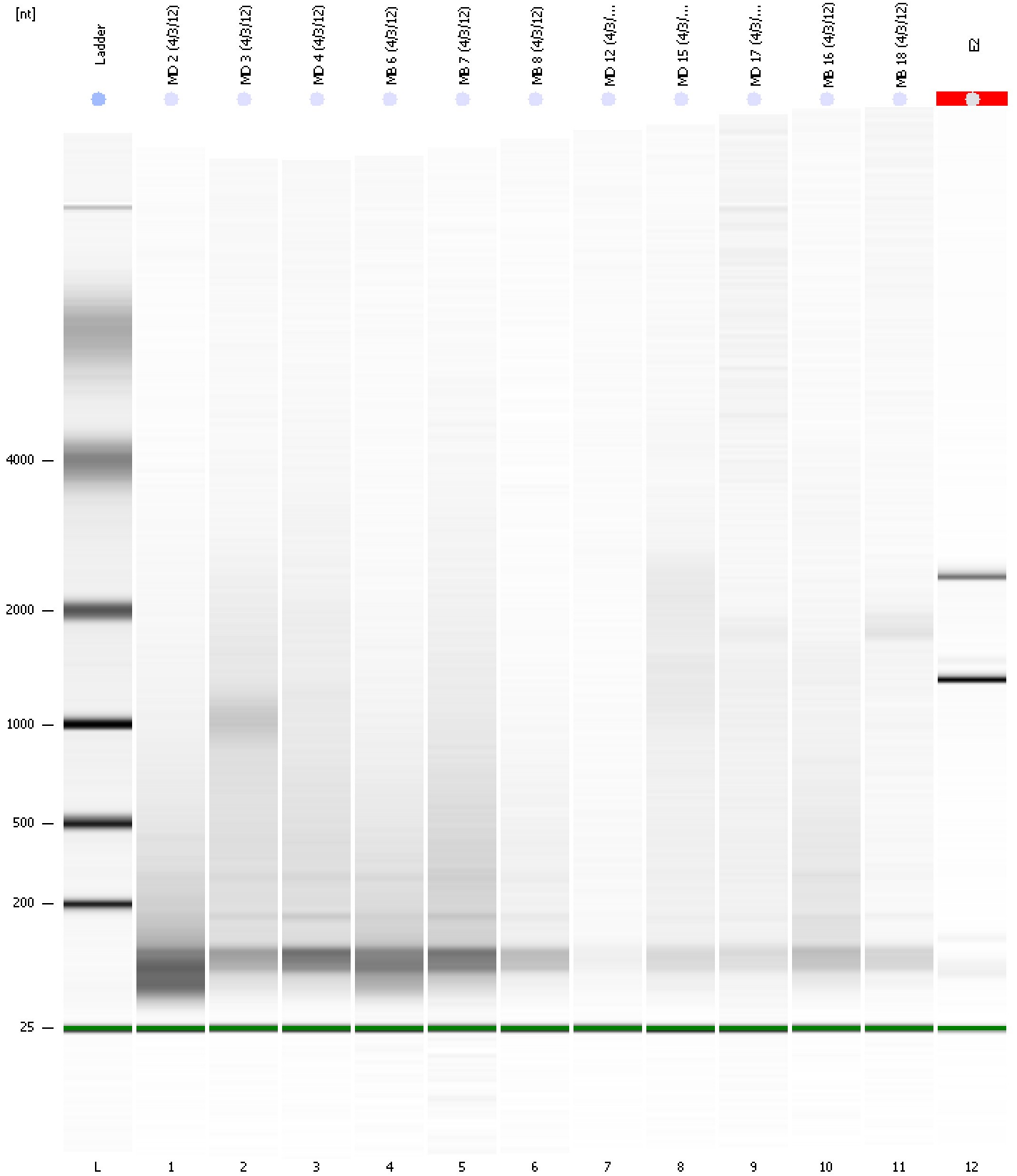
Fragment table for sample 12 : E2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,345	1,507	11.7	40.1
28S	2,279	2,749	6.9	23.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad

Created: 4/3/2012 2:16:35 PM
Modified: 4/3/2012 2:40:23 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 4/3/2012 2:16:35 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad Modified: 4/3/2012 2:40:23 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		4/3/2012 2:40:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-04-03\2012-04-03_002.xad)		Instrument	Run		4/3/2012 2:16:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/3/2012 2:16:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/3/2012 2:16:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/3/2012 2:16:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/3/2012 2:16:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/3/2012 2:16:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/3/2012 2:16:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1