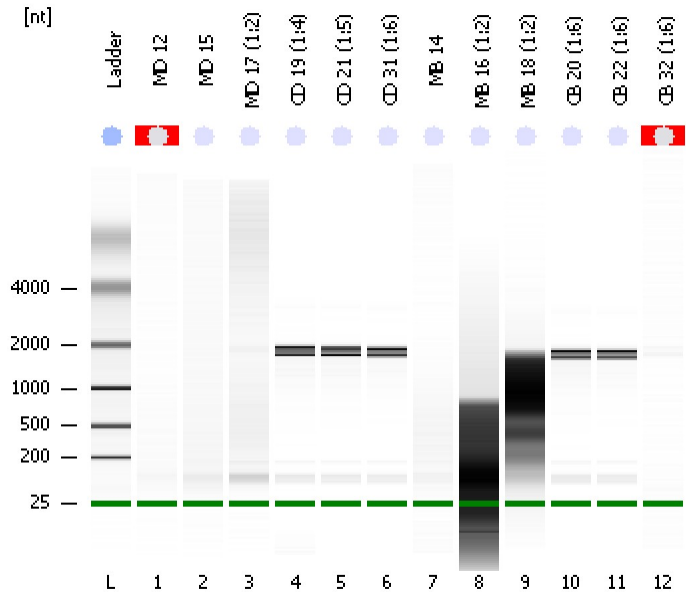


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

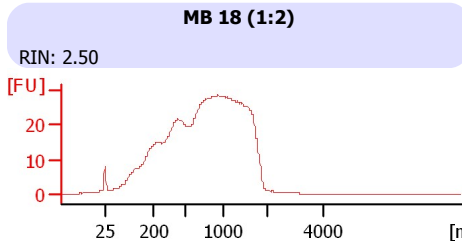
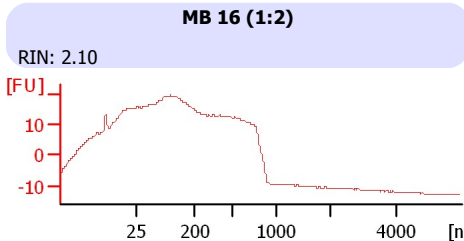
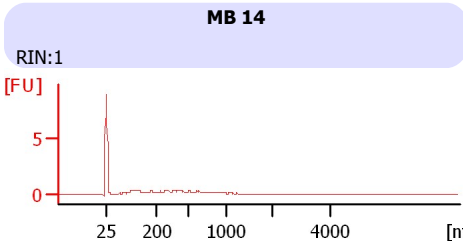
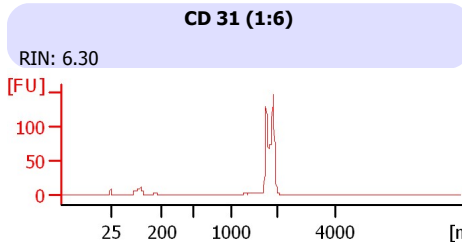
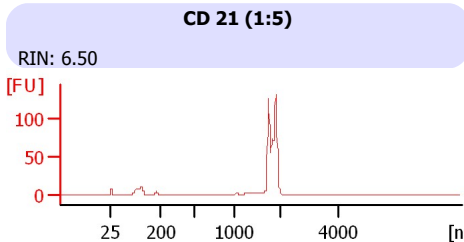
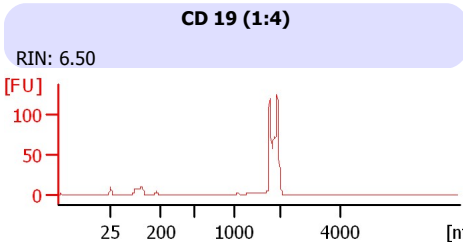
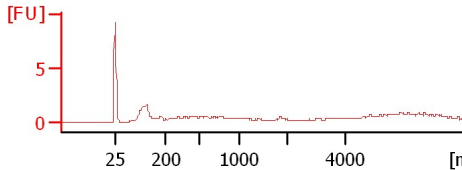
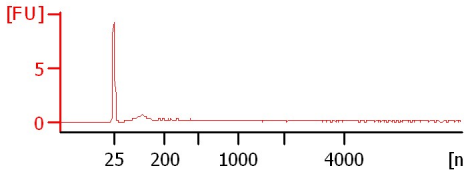
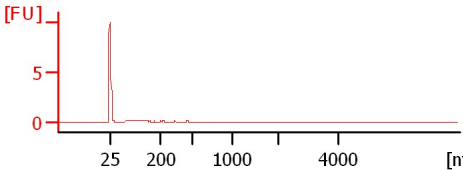
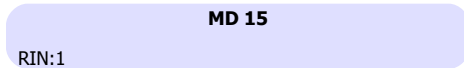
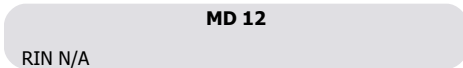
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy

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:



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
 Modified: 3/27/2012 3:01:02 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
MD 12		✓	RIN N/A	
MD 15		✓	RIN:1	
MD 17 (1:2)		✓	RIN: 1.60	
CD 19 (1:4)		✓	RIN: 6.50	
CD 21 (1:5)		✓	RIN: 6.50	
CD 31 (1:6)		✓	RIN: 6.30	
MB 14		✓	RIN:1	
MB 16 (1:2)		✓	RIN: 2.10	
MB 18 (1:2)		✓	RIN: 2.50	
CB 20 (1:6)		✓	RIN: 6.30	
CB 22 (1:6)		✓	RIN: 6.50	
CB 32 (1:6)		✓	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\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 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

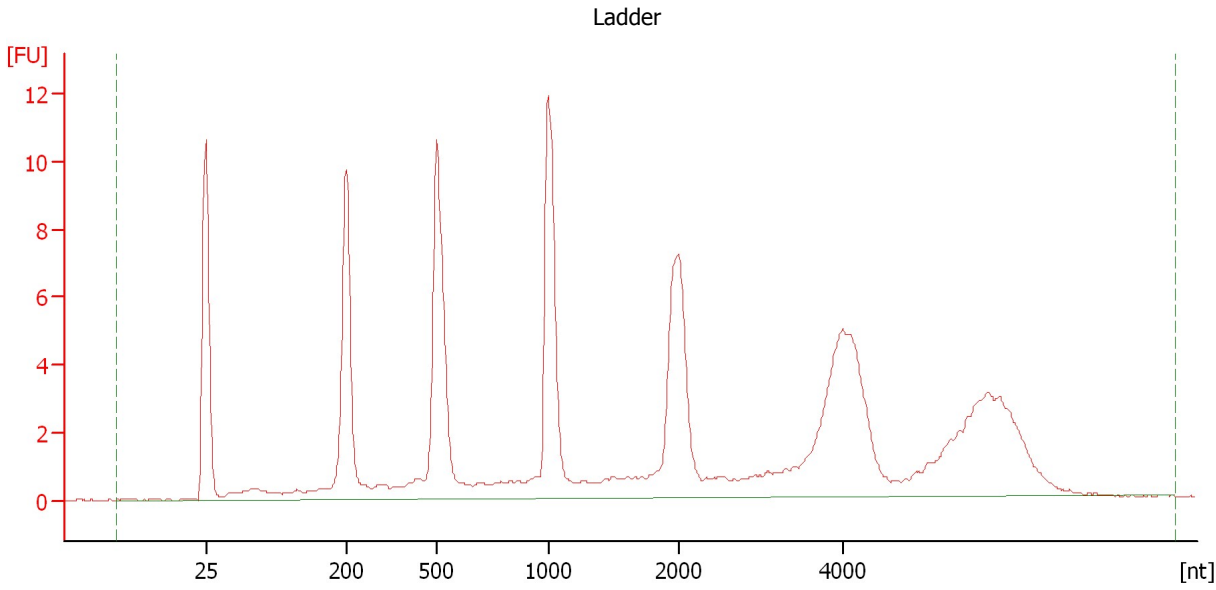
Ladder

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\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary



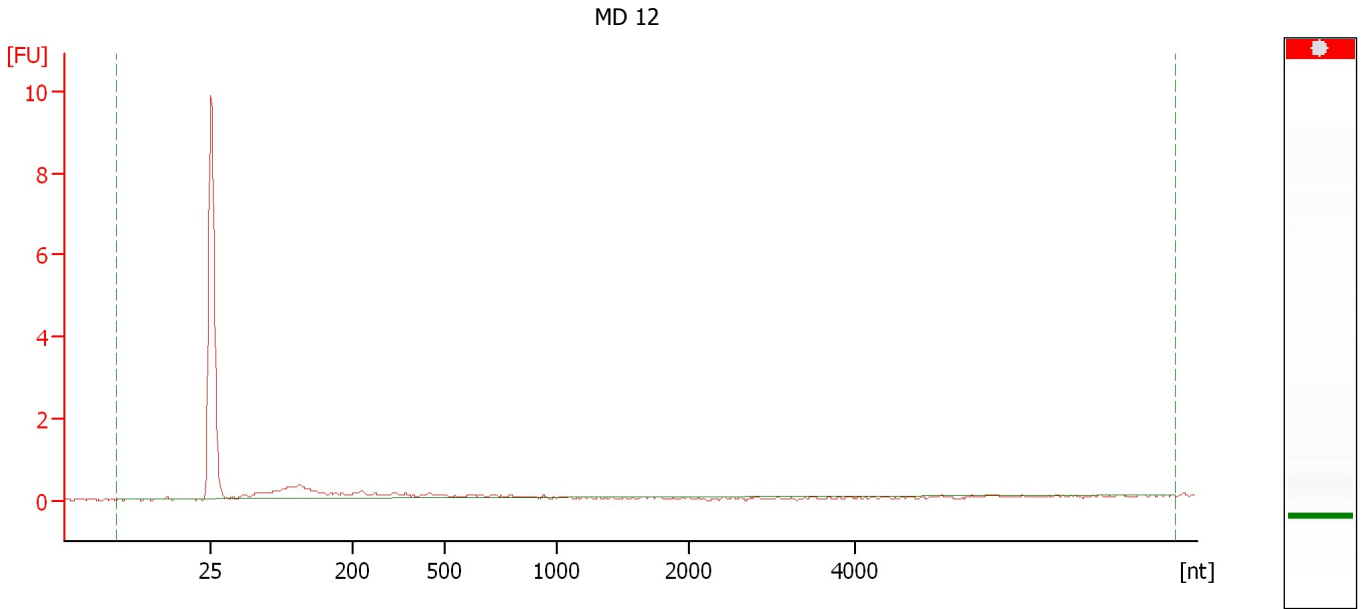
Overall Results for Ladder

RNA Area:	130.3	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\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



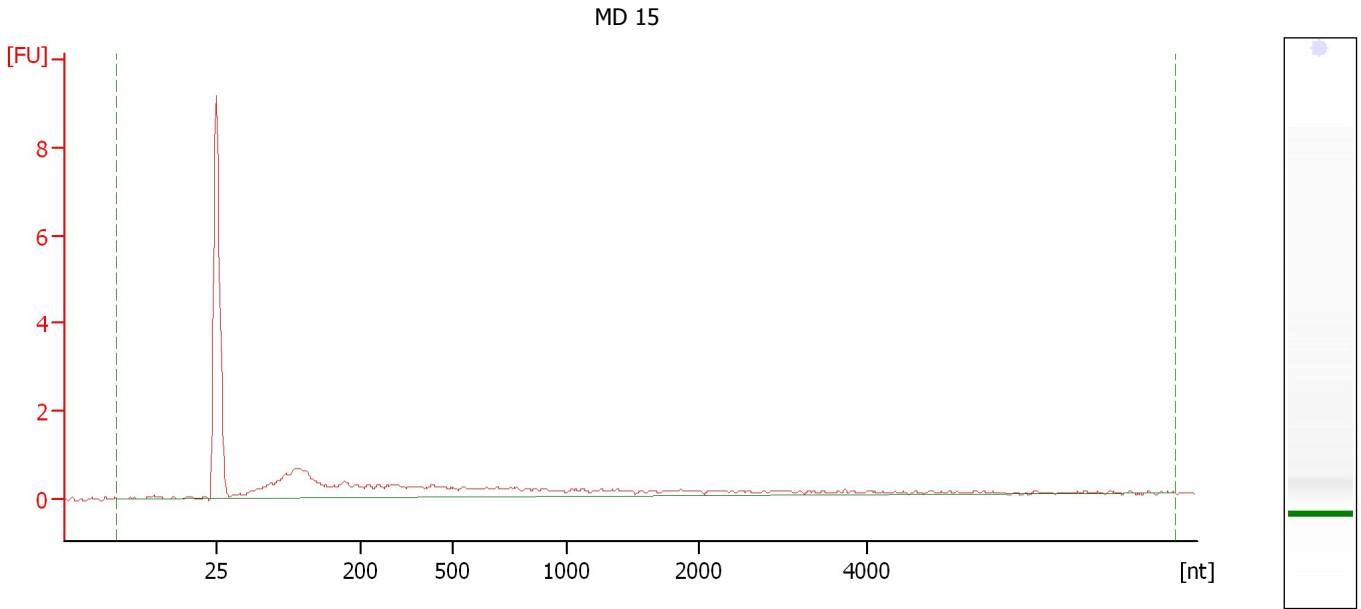
Overall Results for sample 1 : MD 12

RNA Area:	5.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MD 15

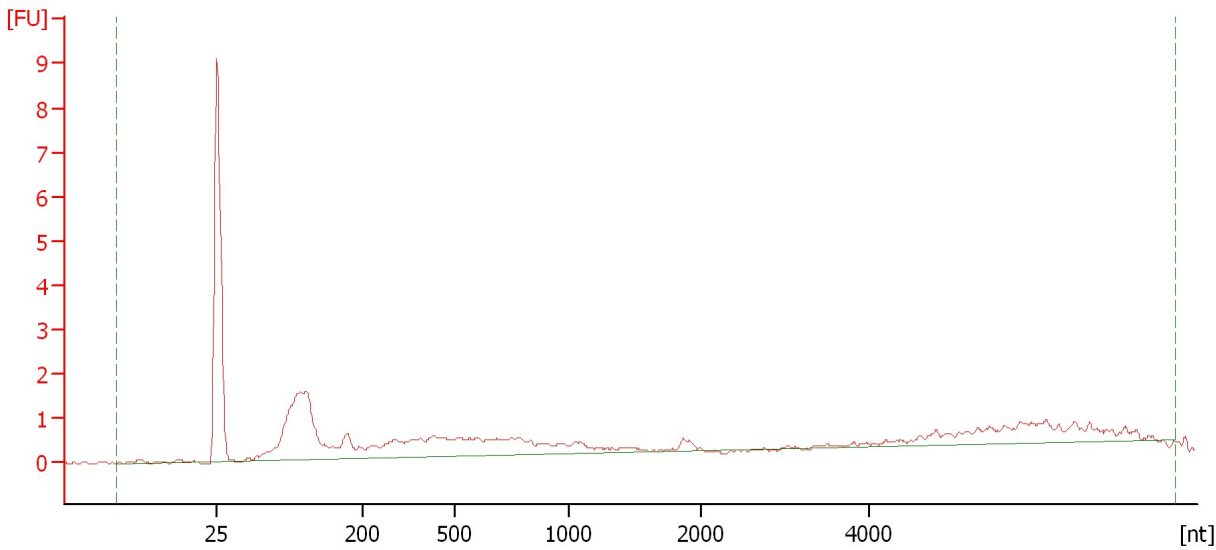
RNA Area:	14.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	17 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...

MD 17 (1:2)



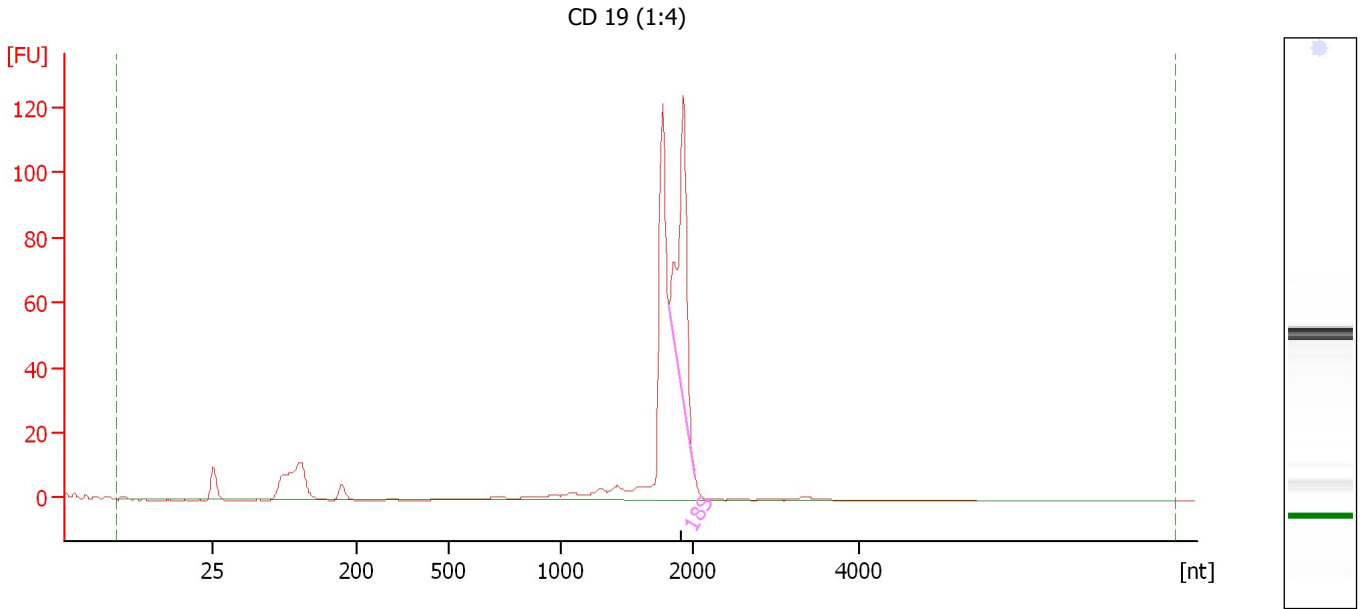
Overall Results for sample 3 : MD 17 (1:2)

RNA Area:	28.4	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	33 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\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CD 19 (1:4)

RNA Area:	379.2	RNA Integrity Number (RIN):	6.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	437 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.50

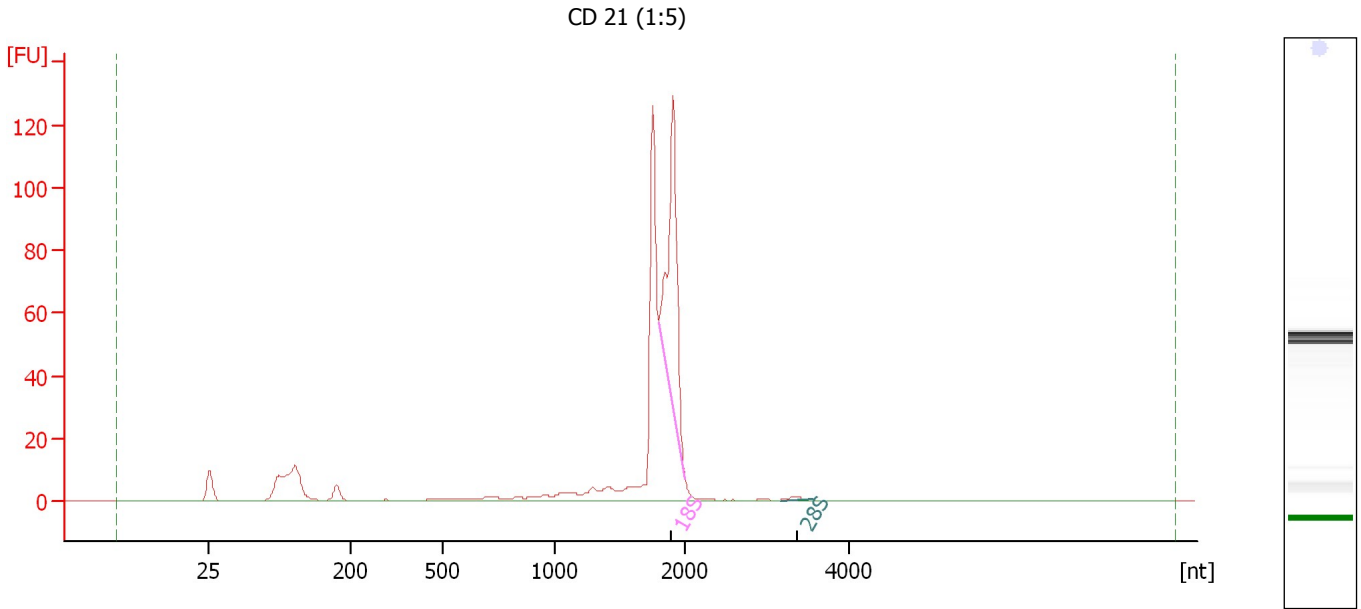
Fragment table for sample 4 : CD 19 (1:4)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,816	2,031	93.5	24.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CD 21 (1:5)

RNA Area: 407.5 RNA Integrity Number (RIN): 6.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 469 ng/μl
rRNA Ratio [28s / 18s]: 0.0
Result Flagging Color:
Result Flagging Label: RIN: 6.50

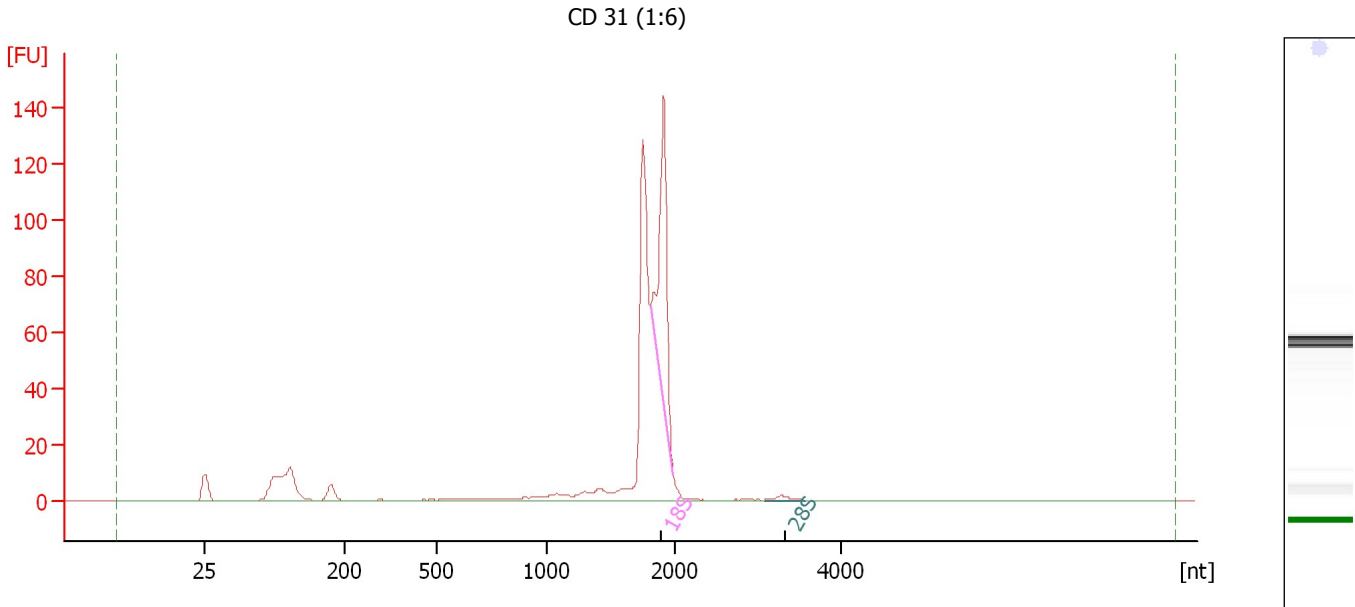
Fragment table for sample 5 : CD 21 (1:5)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,804	2,015	98.3	24.1
28S	3,164	3,551	1.4	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
 Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CD 31 (1:6)

RNA Area:	423.9	RNA Integrity Number (RIN):	6.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	488 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.30

Fragment table for sample 6 : CD 31 (1:6)

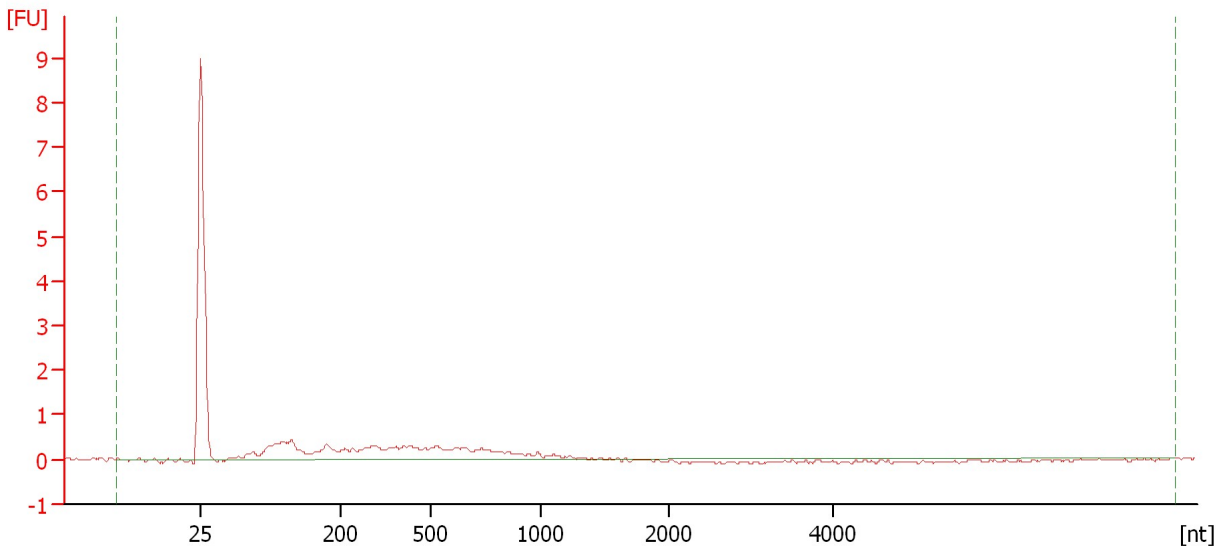
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,800	1,982	92.5	21.8
28S	3,079	3,560	2.2	0.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...

MB 14



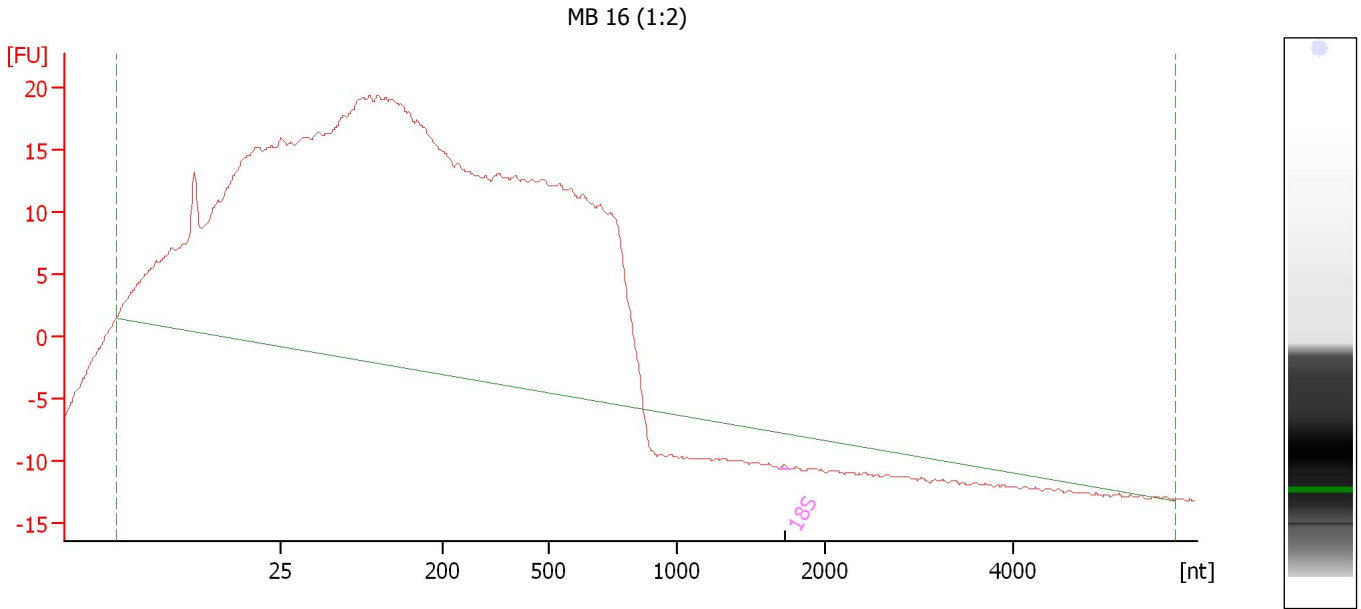
Overall Results for sample 7 : MB 14

RNA Area:	9.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	11 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\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MB 16 (1:2)

RNA Area:	911.6	RNA Integrity Number (RIN):	2.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,049 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 2.10

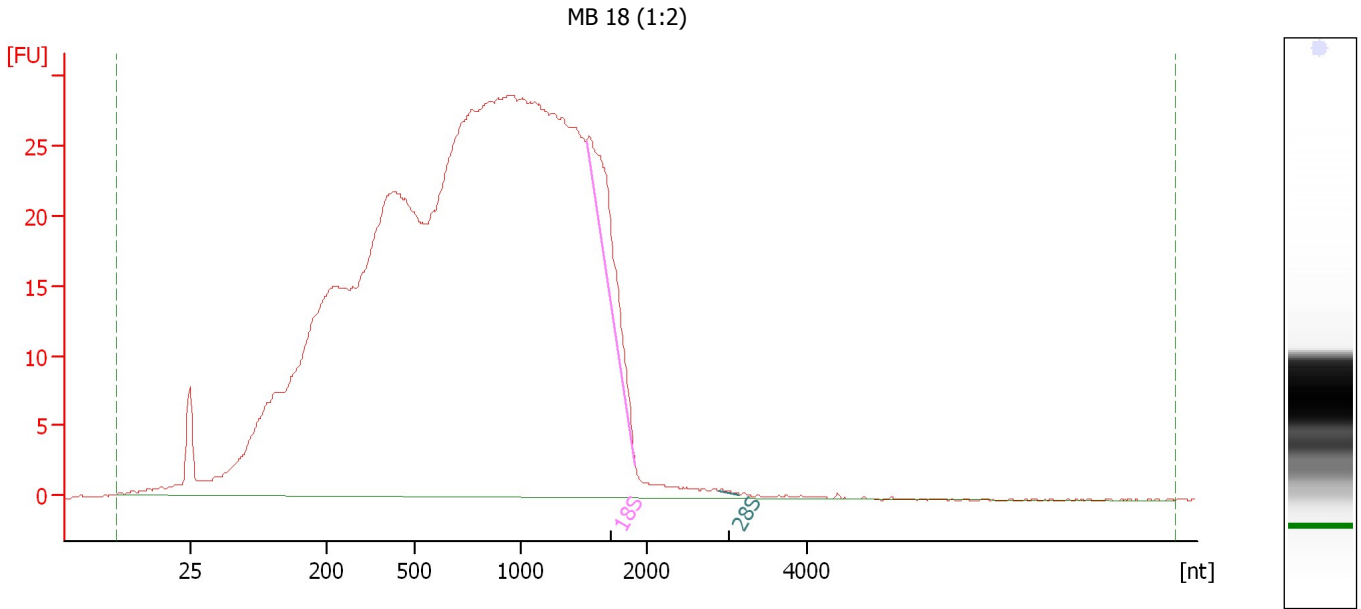
Fragment table for sample 8 : MB 16 (1:2)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,695	1,767	0.1	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
 Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MB 18 (1:2)

RNA Area:	1,028.5	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	1,184 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

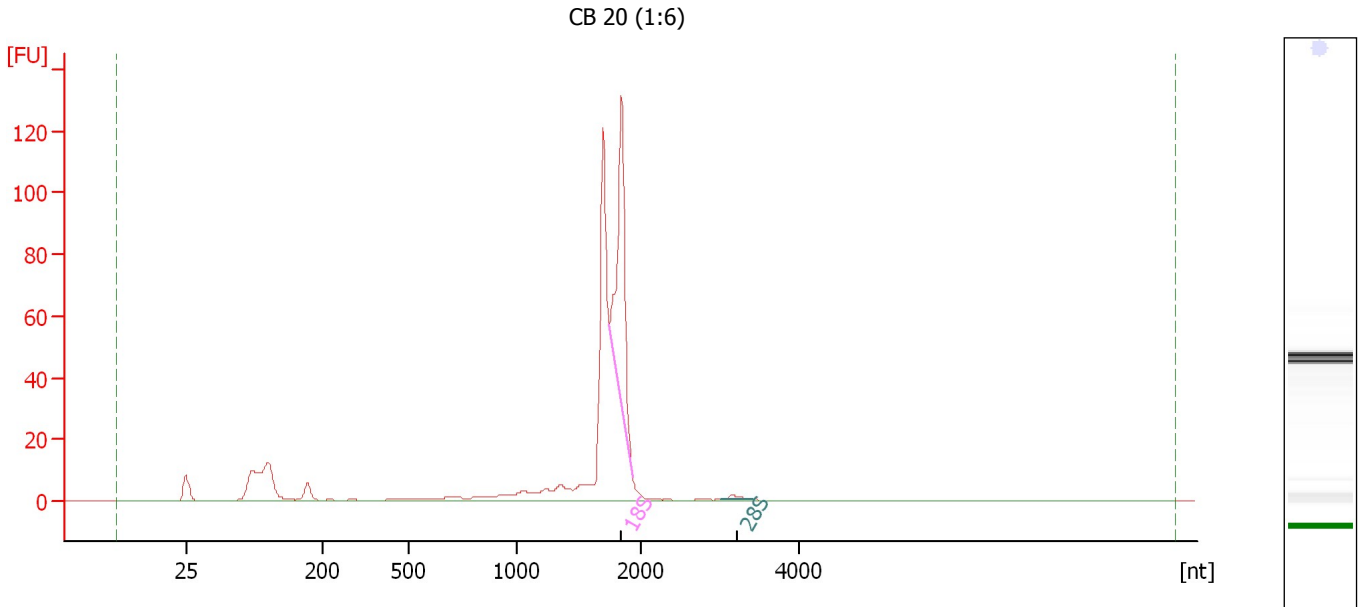
Fragment table for sample 9 : MB 18 (1:2)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,513	1,906	20.5	2.0
28S	2,898	3,167	0.1	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CB 20 (1:6)

RNA Area:	404.8	RNA Integrity Number (RIN):	6.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	466 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.30

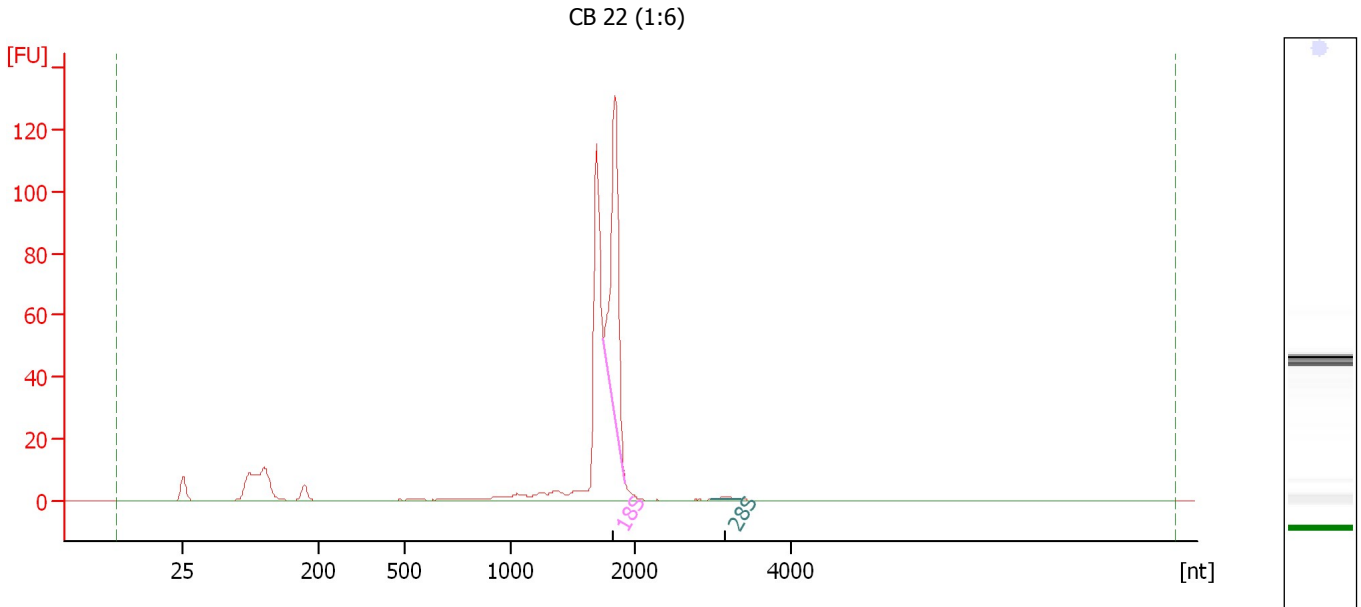
Fragment table for sample 10 : CB 20 (1:6)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,749	1,929	91.5	22.6
28S	3,010	3,428	1.9	0.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CB 22 (1:6)

RNA Area: 363.7 RNA Integrity Number (RIN): 6.5 (B.02.08,
RNA Concentration: 419 ng/μl Anomaly Threshold(s)
rRNA Ratio [28s / 18s]: 0.0 manually adapted)

Result Flagging Color:
Result Flagging Label: RIN: 6.50

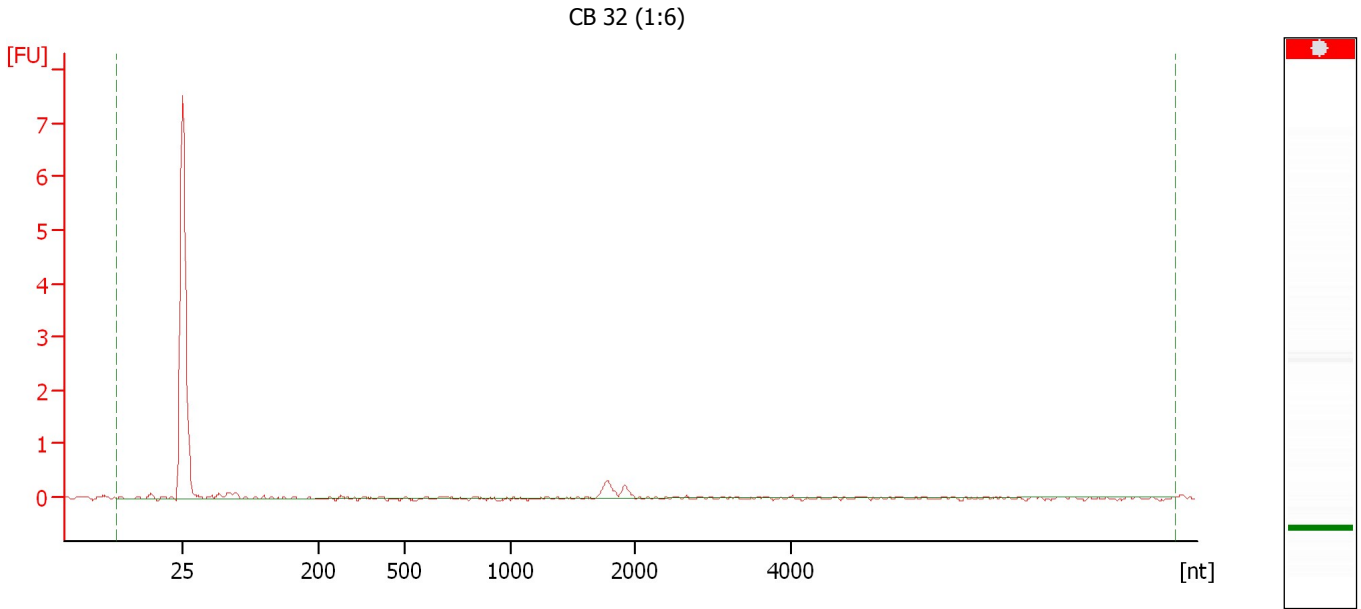
Fragment table for sample 11 : CB 22 (1:6)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,745	1,927	90.0	24.7
28S	2,973	3,353	1.4	0.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Electropherogram Summary Continued ...



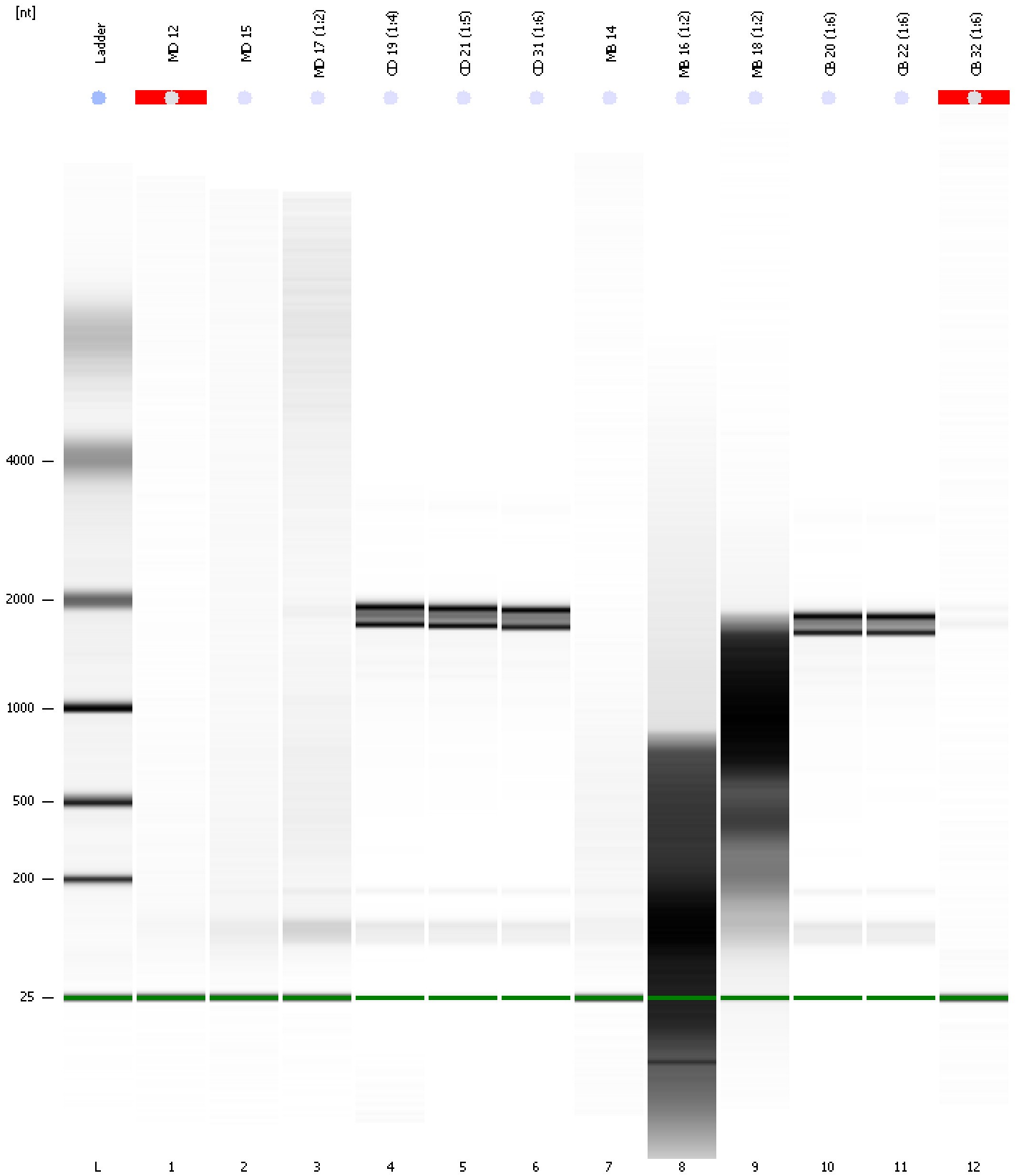
Overall Results for sample 12 : CB 32 (1:6)

RNA Area:	1.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
Modified: 3/27/2012 3:01:02 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad

Created: 3/27/2012 2:27:46 PM
 Modified: 3/27/2012 3:01:02 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		3/27/2012 2:50:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-27\2012-03-27_005.xad)		Instrument	Run		3/27/2012 2:27:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/27/2012 2:27:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/27/2012 2:27:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/27/2012 2:27:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/27/2012 2:27:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/27/2012 2:27:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/27/2012 2:27:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1