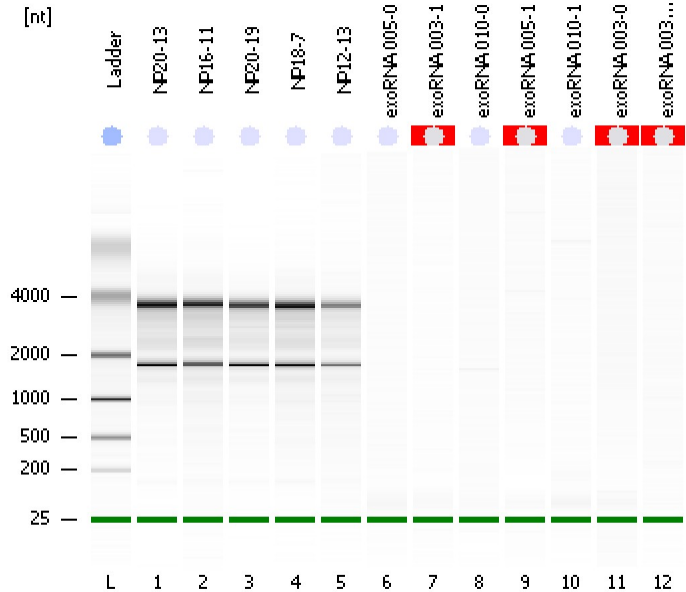


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electrophoresis File Run Summary



Instrument Information:

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

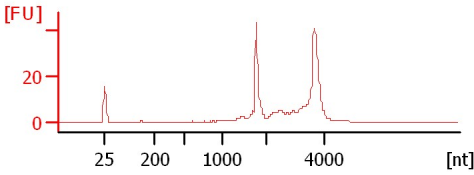
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

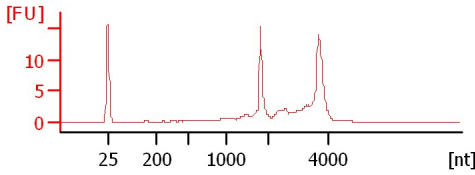
Chip Information:

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

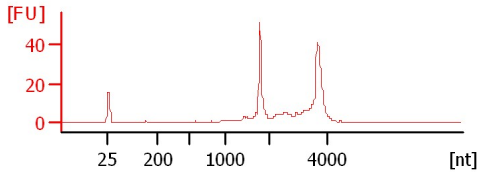
NP20-13
RIN: 9.20



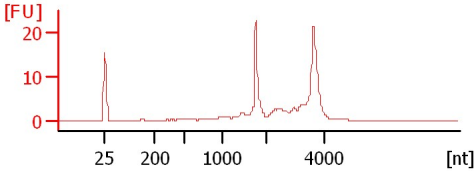
NP16-11
RIN:9



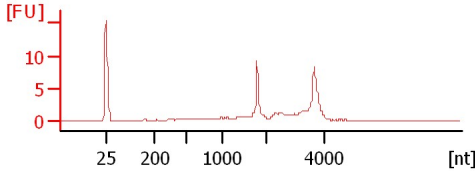
NP20-19
RIN: 9.10



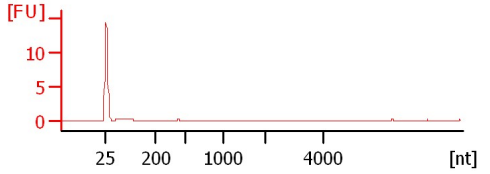
NP18-7
RIN: 8.90



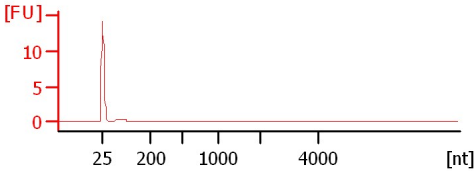
NP12-13
RIN: 8.30



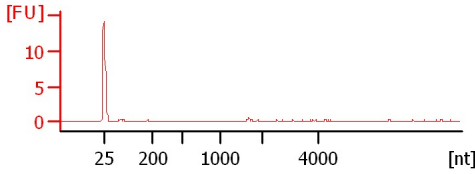
exoRNA 005-0
RIN:1



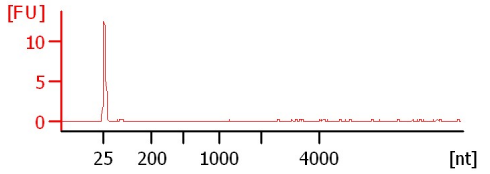
exoRNA 003-1
RIN N/A



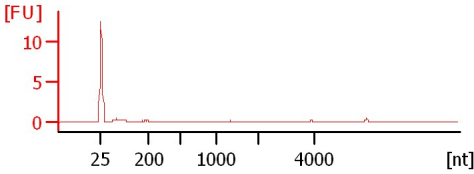
exoRNA 010-0
RIN:6



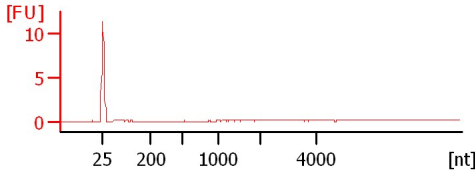
exoRNA 005-1
RIN N/A



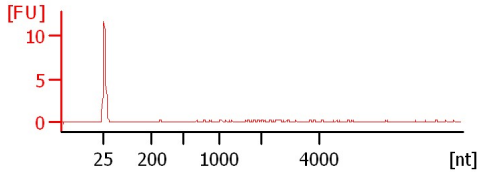
exoRNA 010-1
RIN:1



exoRNA 003-0
RIN N/A



exoRNA 003-1 (2)
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
NP20-13		✓	RIN: 9.20	
NP16-11		✓	RIN:9	
NP20-19		✓	RIN: 9.10	
NP18-7		✓	RIN: 8.90	
NP12-13		✓	RIN: 8.30	
exoRNA 005-0		✓	RIN:1	
exoRNA 003-1		✓	RIN N/A	
exoRNA 010-0		✓	RIN:6	
exoRNA 005-1		✓	RIN N/A	
exoRNA 010-1		✓	RIN:1	
exoRNA 003-0		✓	RIN N/A	
exoRNA 003-1 (2)		✓	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\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 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

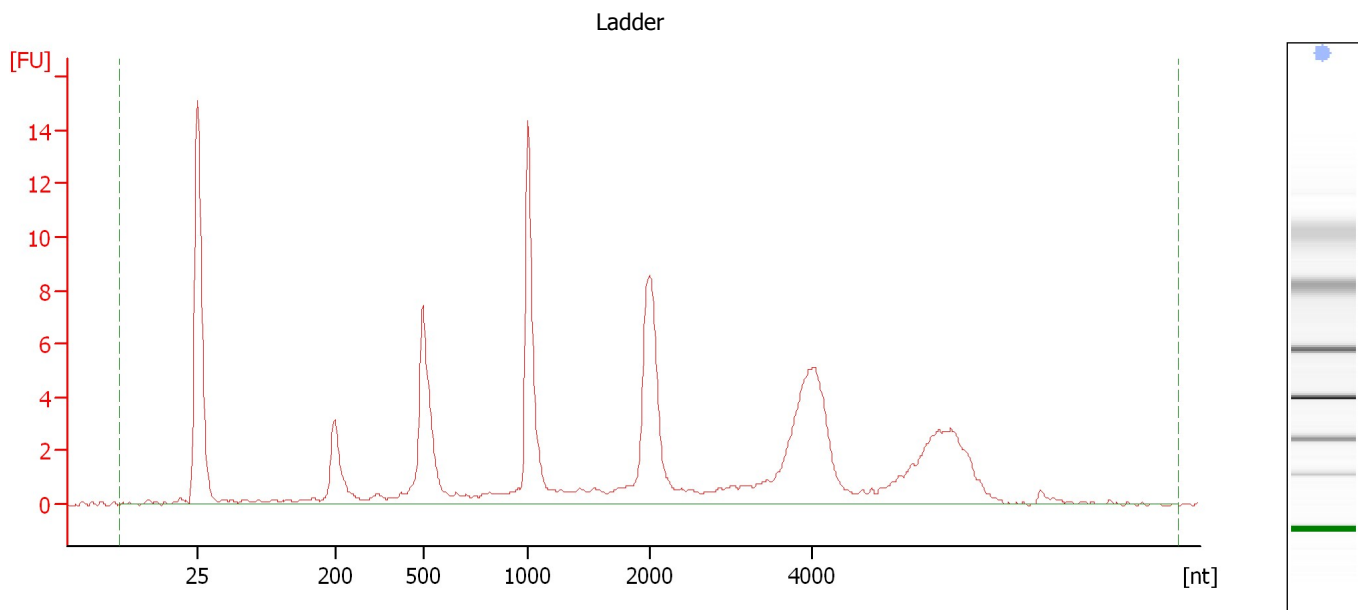
Ladder

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\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary



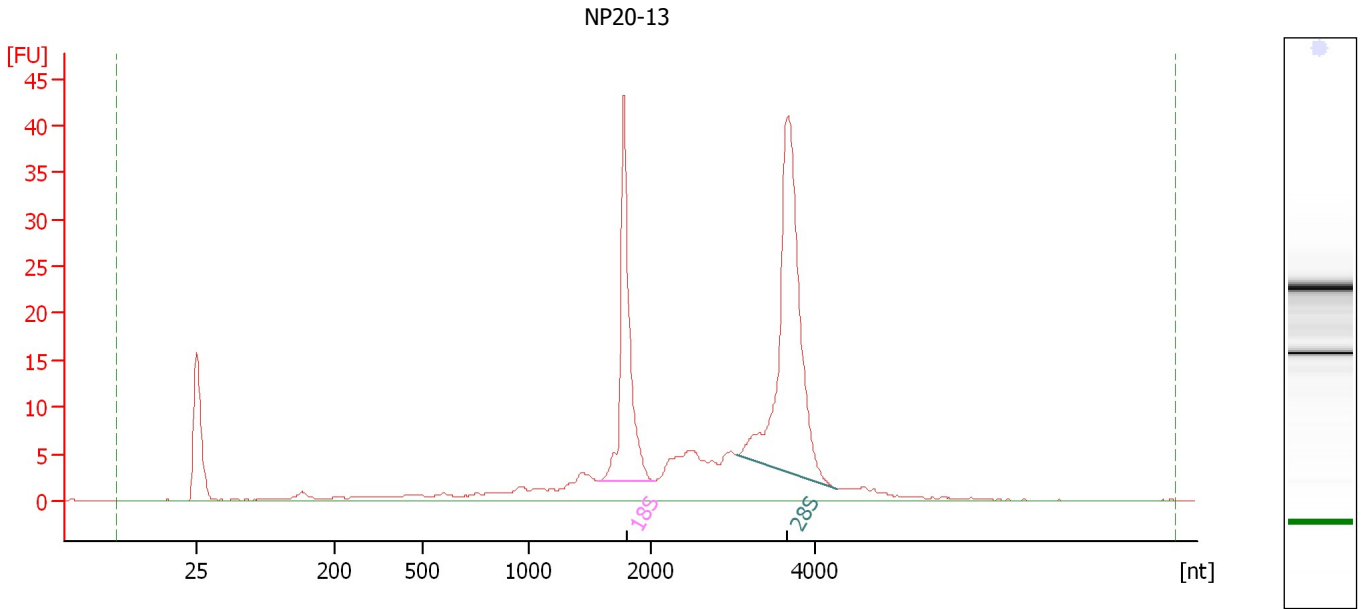
Overall Results for Ladder

RNA Area:	108.2	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\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : NP20-13

RNA Area: 242.4 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 336 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.20

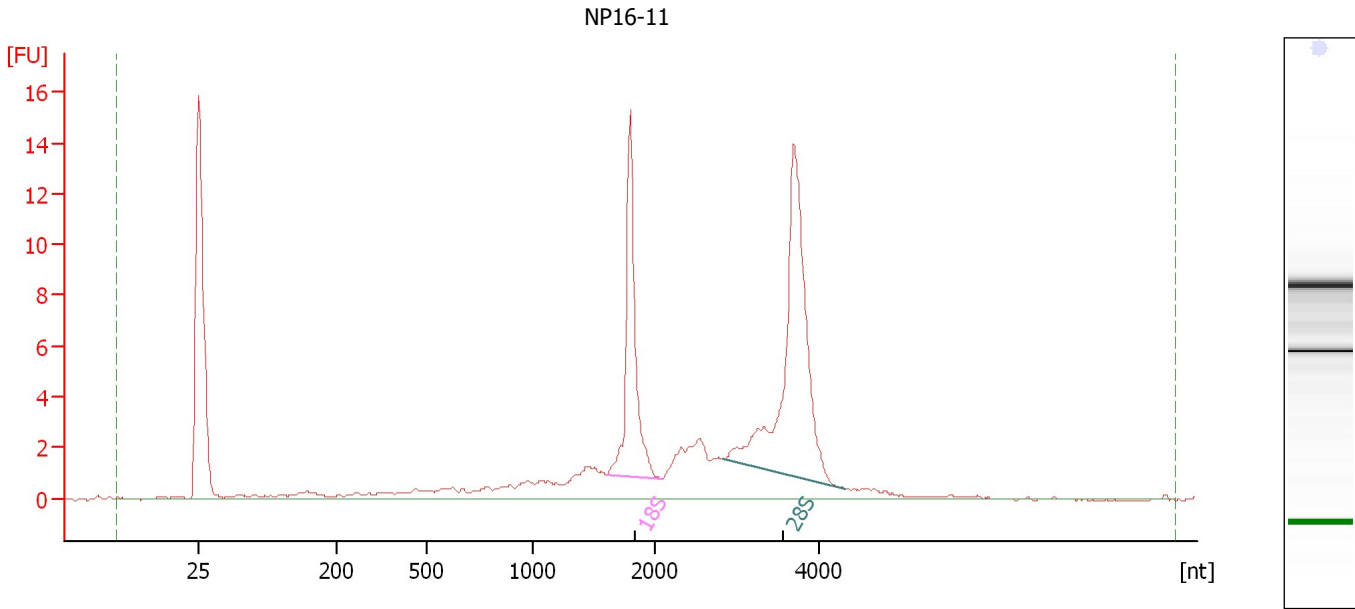
Fragment table for sample 1 : NP20-13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	2,054	45.2	18.6
28S	3,056	4,267	82.0	33.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NP16-11

RNA Area: 94.3 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 131 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:9

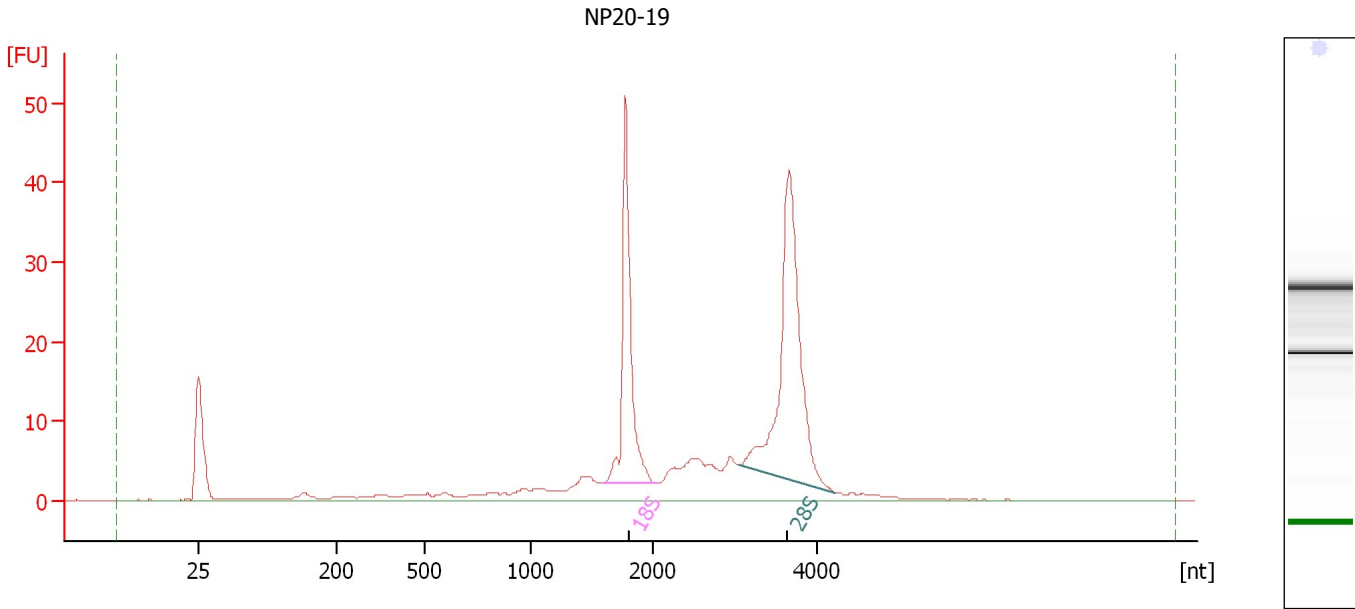
Fragment table for sample 2 : NP16-11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	2,095	15.1	16.0
28S	2,846	4,311	30.2	32.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NP20-19

RNA Area:	246.0	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	341 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.10

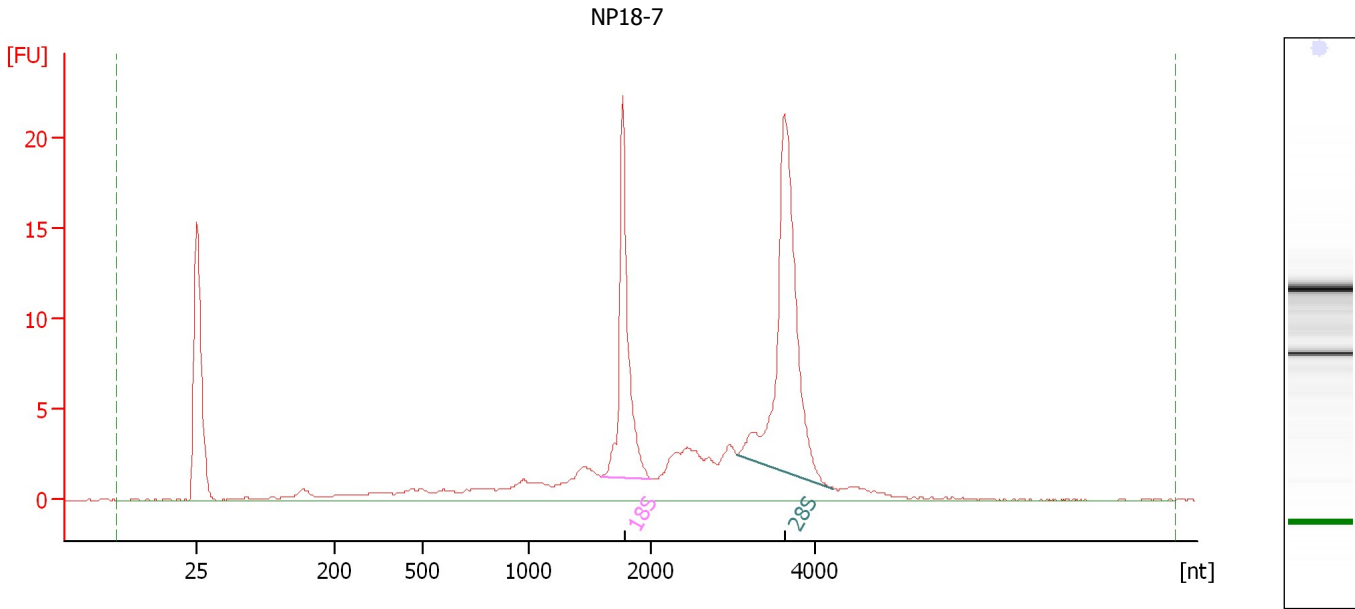
Fragment table for sample 3 : NP20-19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	2,055	47.8	19.4
28S	3,055	4,224	78.9	32.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : NP18-7

RNA Area: 133.7 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 185 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 8.90

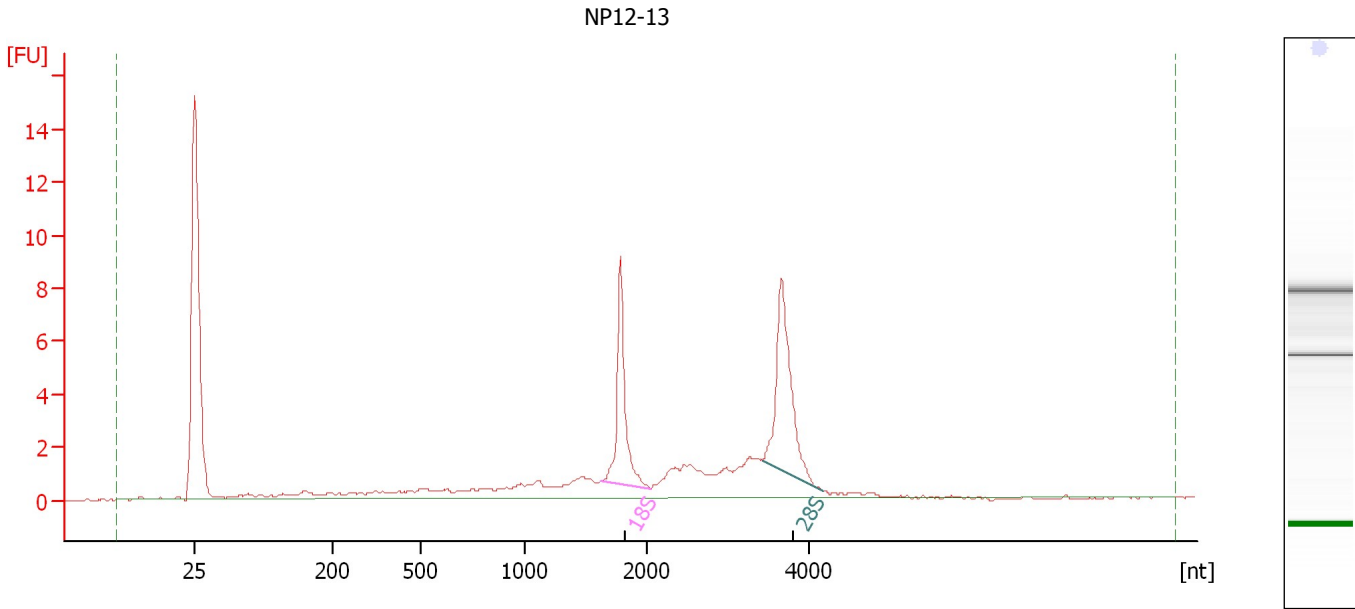
Fragment table for sample 4 : NP18-7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,596	2,002	22.2	16.6
28S	3,069	4,240	39.8	29.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : NP12-13

RNA Area: 55.1 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 76 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.30

Fragment table for sample 5 : NP12-13

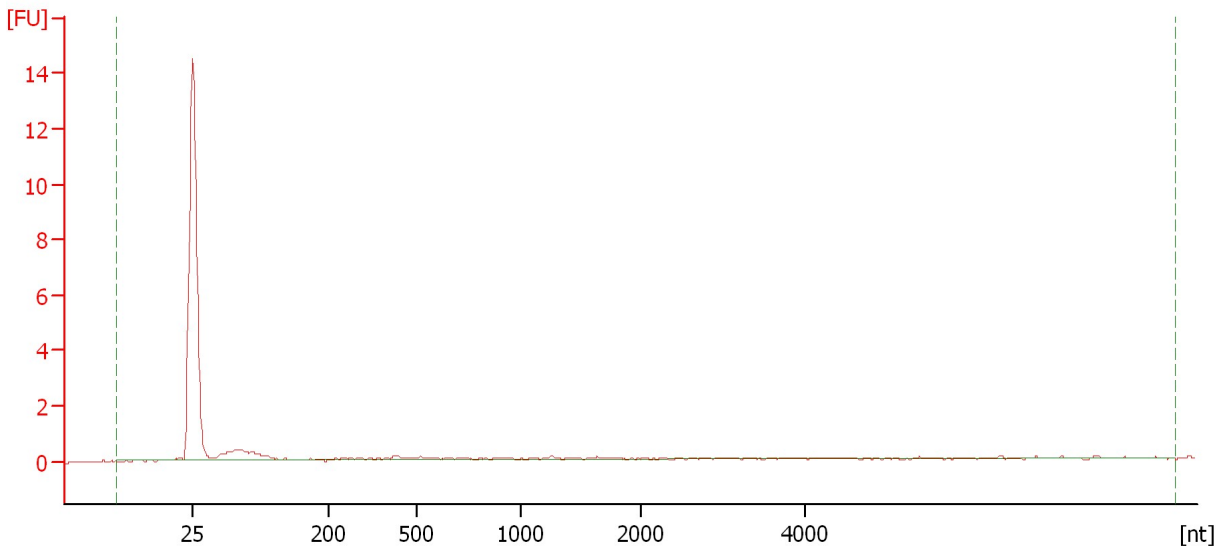
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	2,052	8.5	15.4
28S	3,424	4,169	11.3	20.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...

exoRNA 005-0



Overall Results for sample 6 : exoRNA 005-0

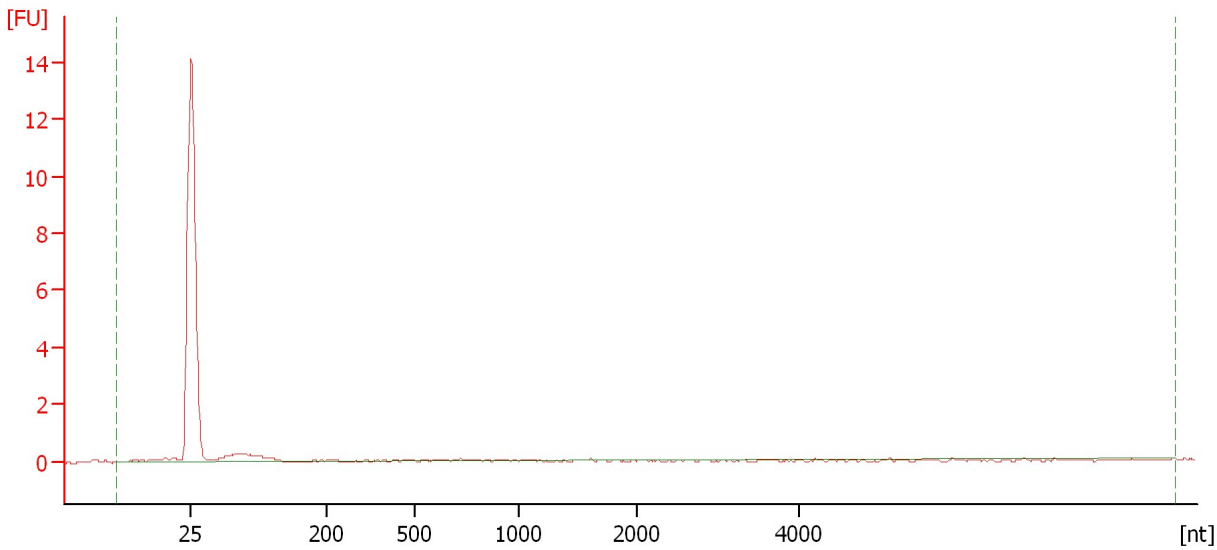
RNA Area:	7.3	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	10 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...

exoRNA 003-1



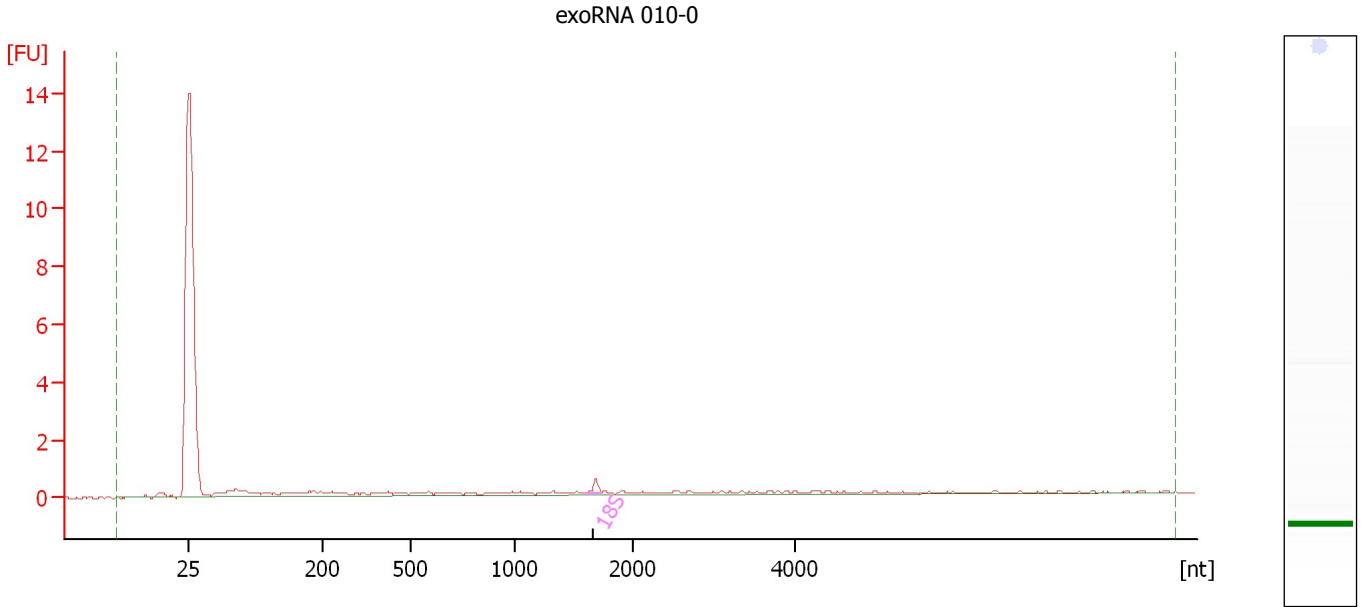
Overall Results for sample 7 : exoRNA 003-1

RNA Area:	3.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 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\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : exoRNA 010-0

RNA Area: 9.7 RNA Integrity Number (RIN): 6 (B.02.08)
RNA Concentration: 13 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN:6

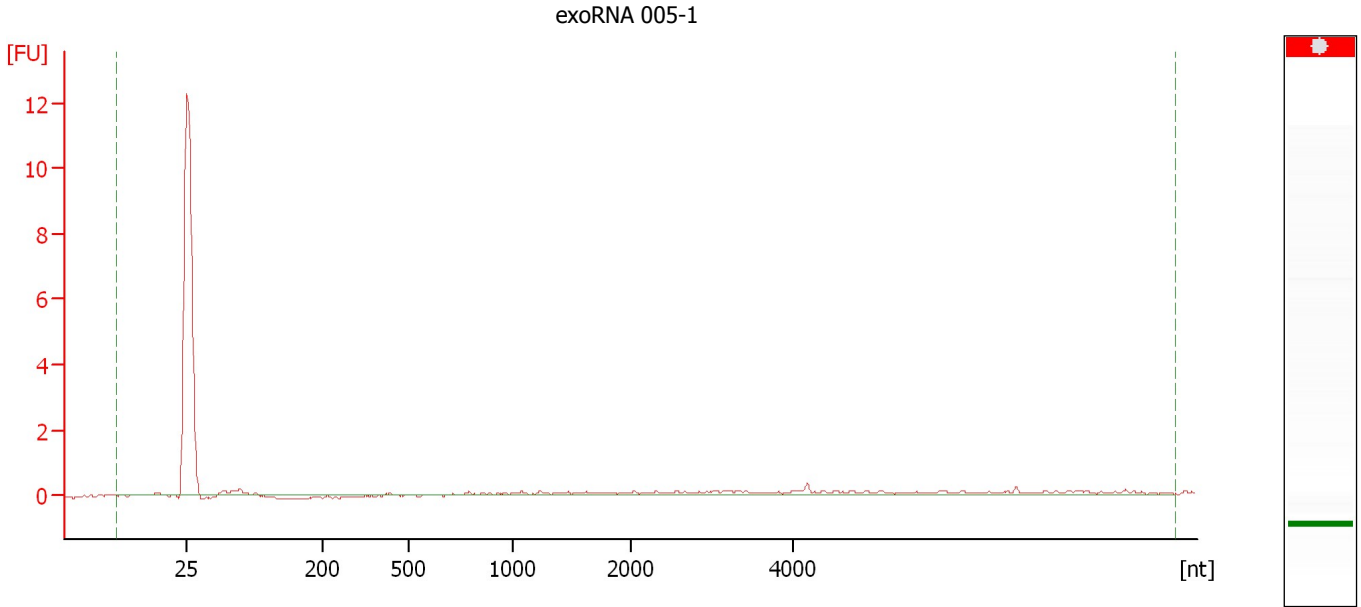
Fragment table for sample 8 : exoRNA 010-0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	1,726	0.3	3.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



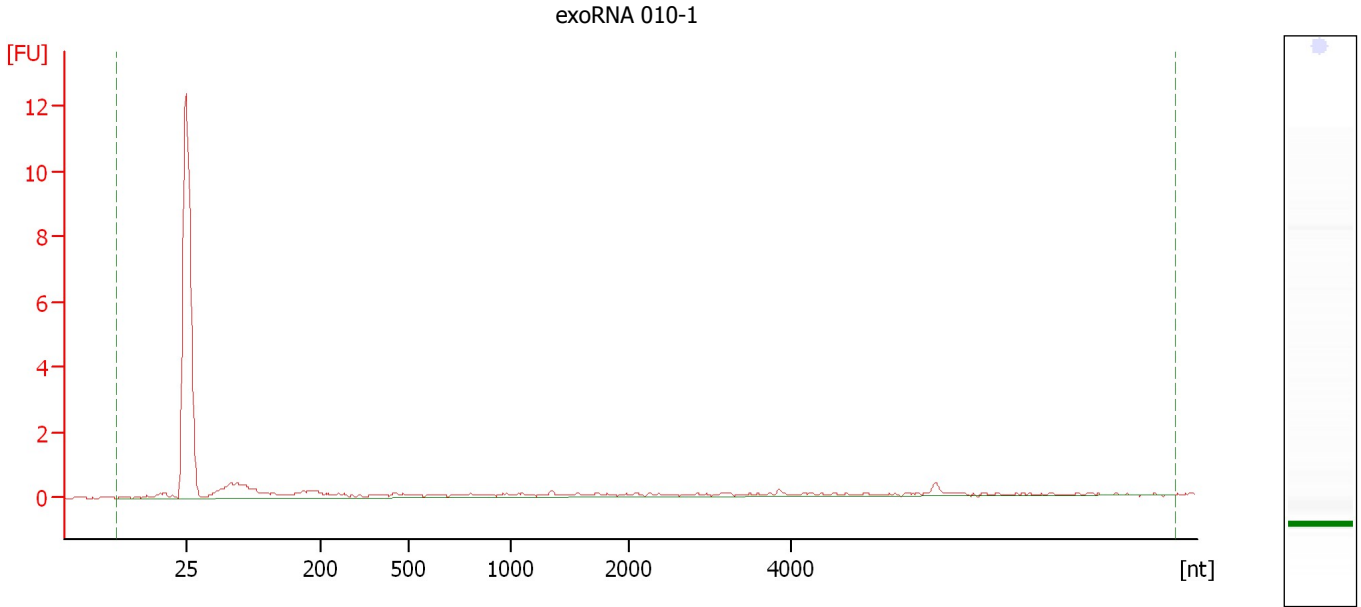
Overall Results for sample 9 : exoRNA 005-1

RNA Area:	5.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 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\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



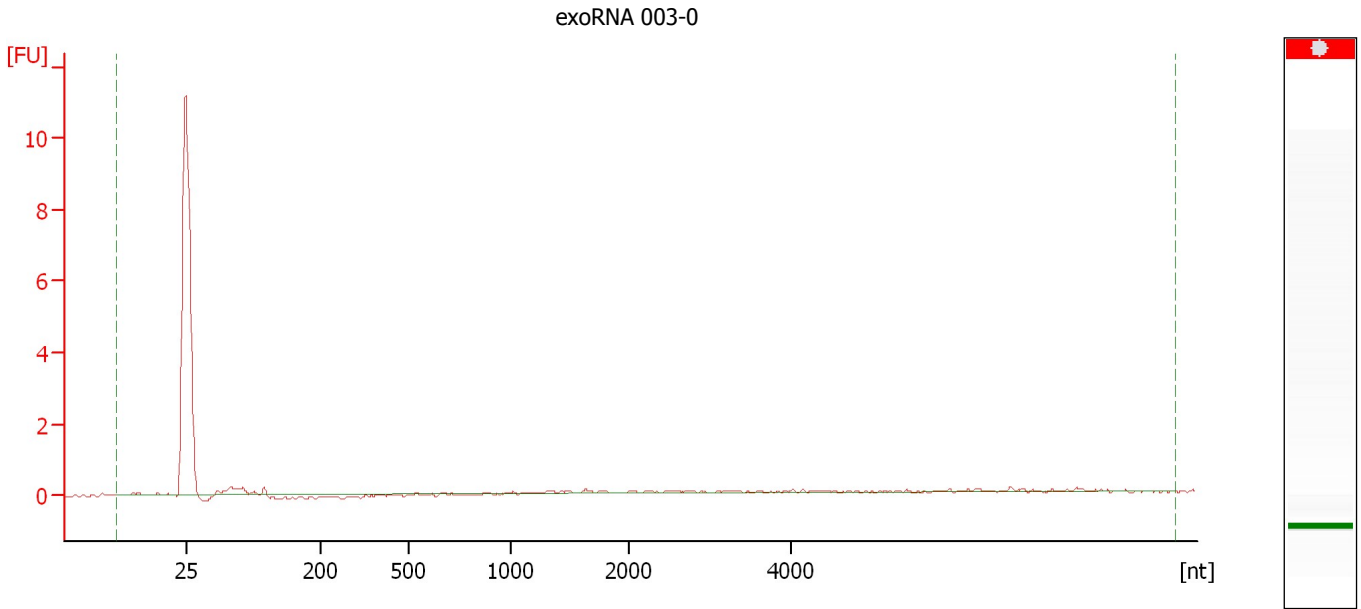
Overall Results for sample 10 : exoRNA 010-1

RNA Area:	11.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	16 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\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



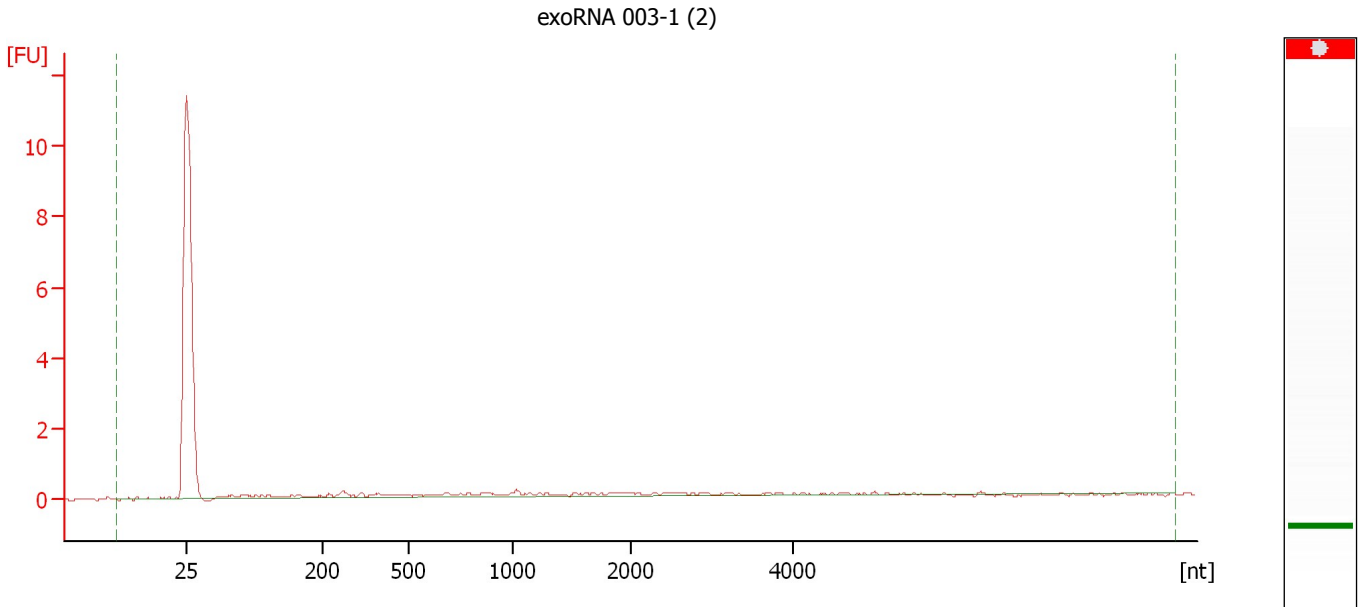
Overall Results for sample 11 : exoRNA 003-0

RNA Area:	3.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 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\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Electropherogram Summary Continued ...



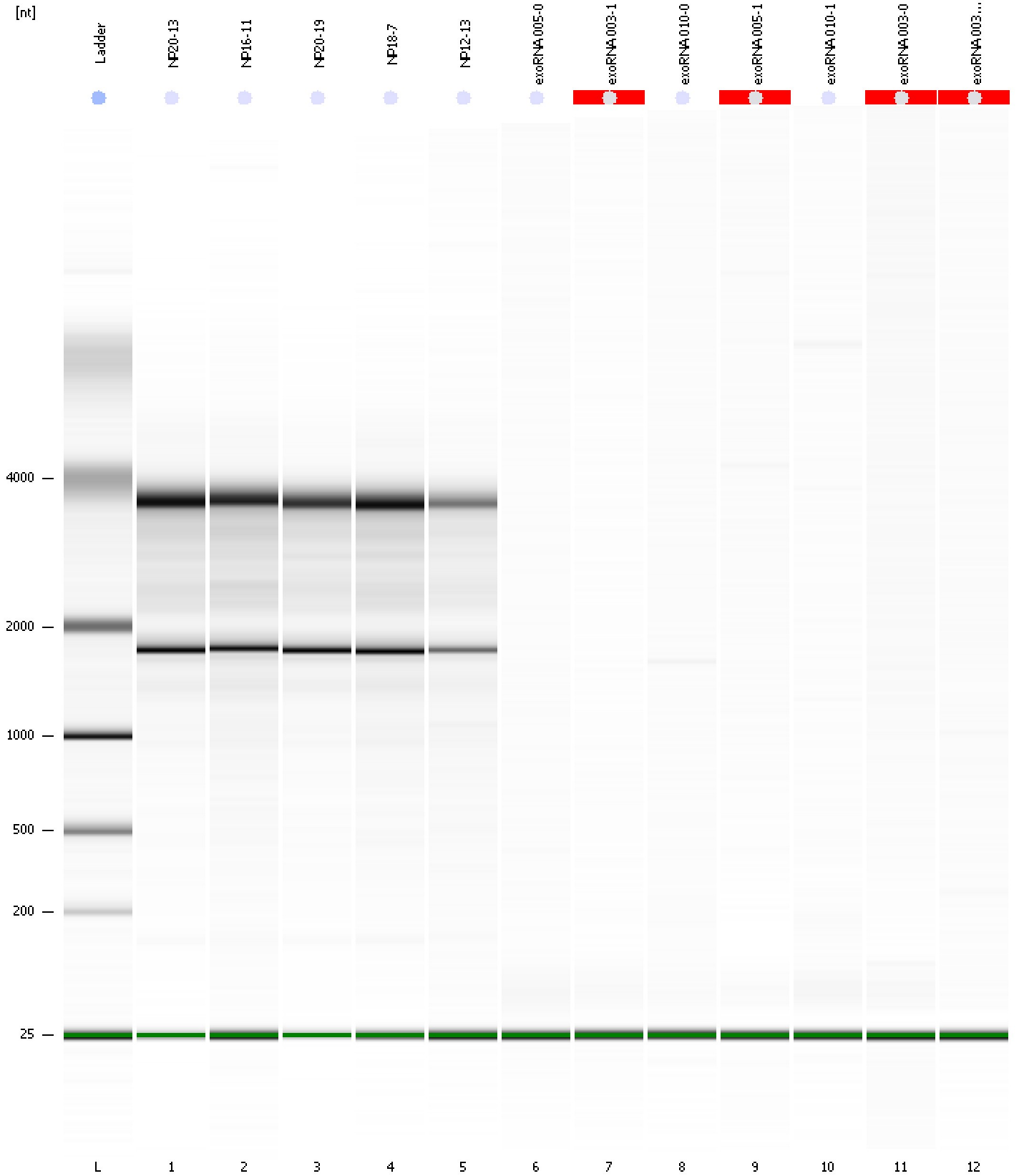
Overall Results for sample 12 : exoRNA 003-1 (2)

RNA Area:	6.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 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\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Gel Image

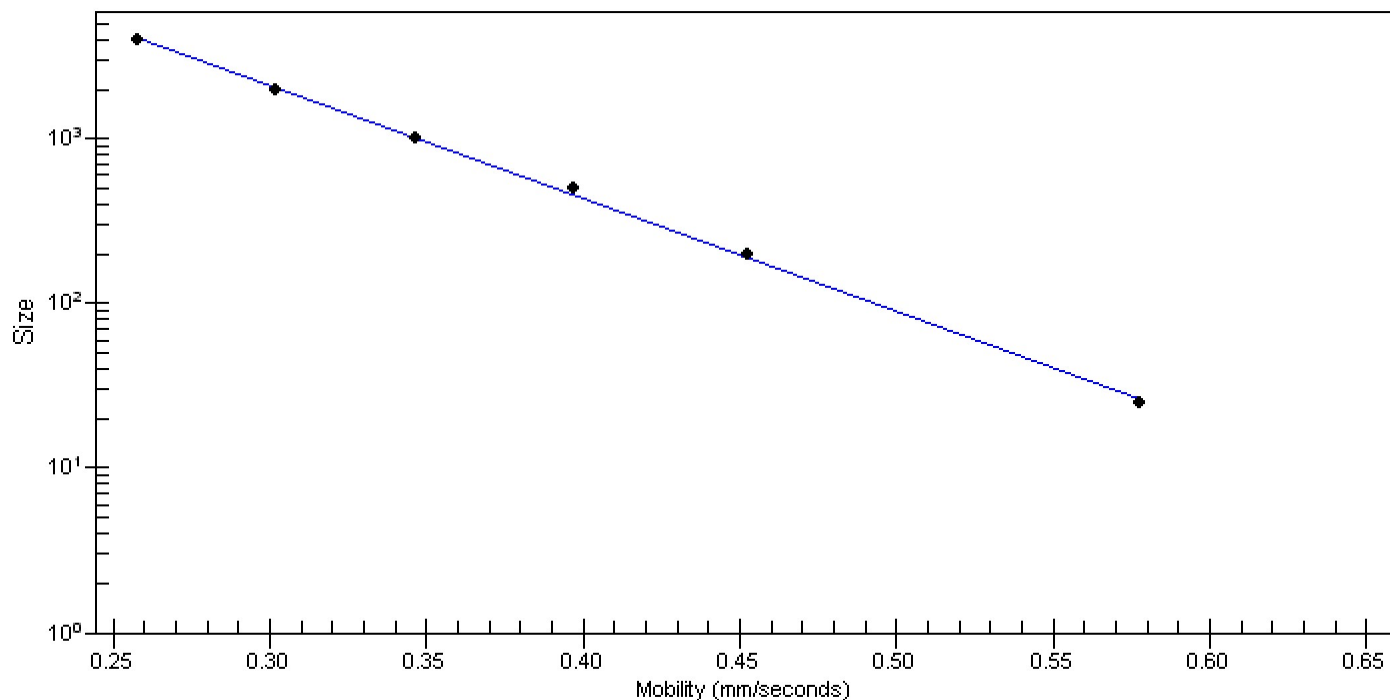


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad

Created: 3/5/2012 2:10:42 PM
Modified: 3/5/2012 2:34:33 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano Created: 3/5/2012 2:10:42 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad Modified: 3/5/2012 2:34:33 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		3/5/2012 2:34:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-05\2012-03-05_004.xad)		Instrument	Run		3/5/2012 2:10:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/5/2012 2:10:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/5/2012 2:10:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/5/2012 2:10:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/5/2012 2:10:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/5/2012 2:10:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/5/2012 2:10:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1