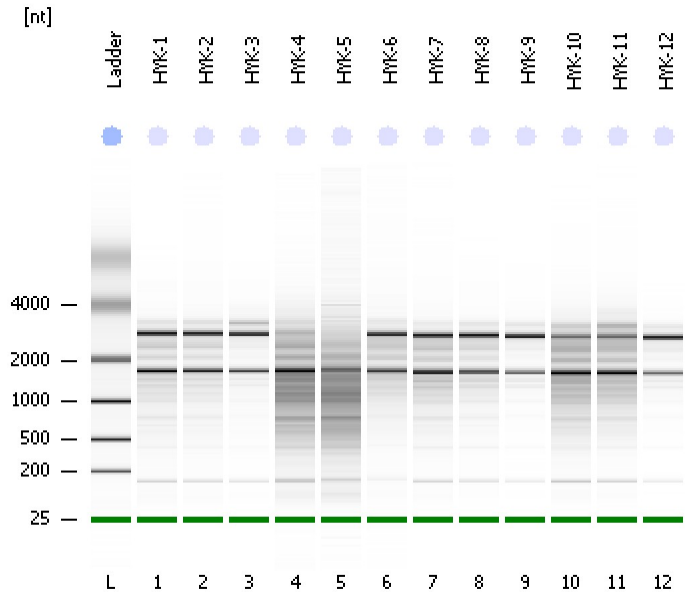


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electrophoresis File Run Summary



Instrument Information:

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

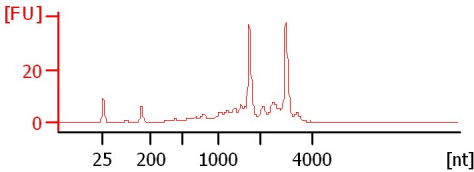
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

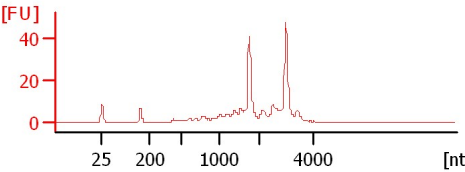
Chip Information:

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

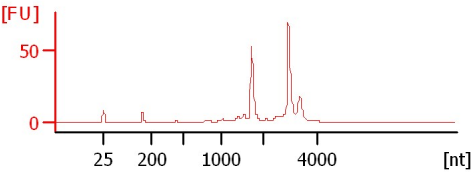
HYK-1
RIN: 7.10



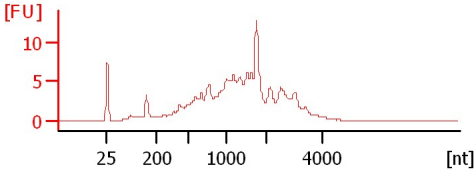
HYK-2
RIN: 7.40



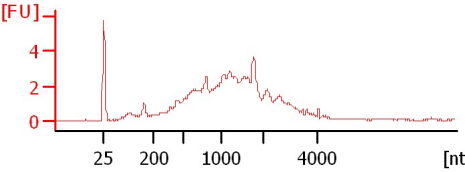
HYK-3
RIN: 8.40



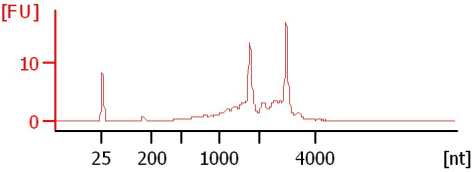
HYK-4
RIN: 4.40



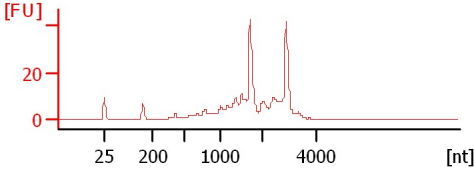
HYK-5
RIN: 3.50



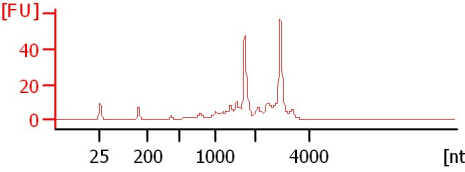
HYK-6
RIN: 7.70



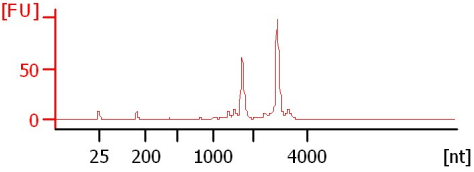
HYK-7
RIN: 6.70



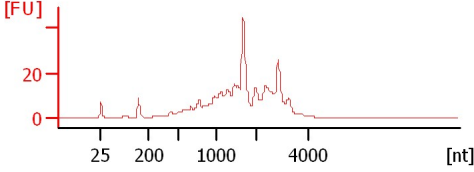
HYK-8
RIN: 7.50



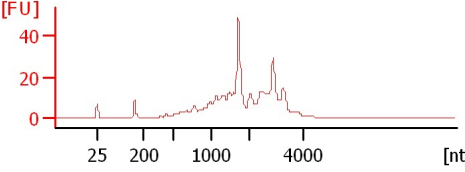
HYK-9
RIN: 8.80



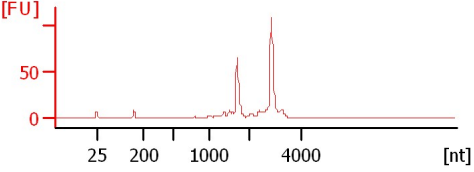
HYK-10
RIN: 5.40



HYK-11
RIN: 6



HYK-12
RIN: 8.90



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
 Modified: 7/18/2013 5:06:02 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
HYK-1		✓	RIN: 7.10	
HYK-2		✓	RIN: 7.40	
HYK-3		✓	RIN: 8.40	
HYK-4		✓	RIN: 4.40	
HYK-5		✓	RIN: 3.50	
HYK-6		✓	RIN: 7.70	
HYK-7		✓	RIN: 6.70	
HYK-8		✓	RIN: 7.50	
HYK-9		✓	RIN: 8.80	
HYK-10		✓	RIN: 5.40	
HYK-11		✓	RIN:6	
HYK-12		✓	RIN: 8.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 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/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

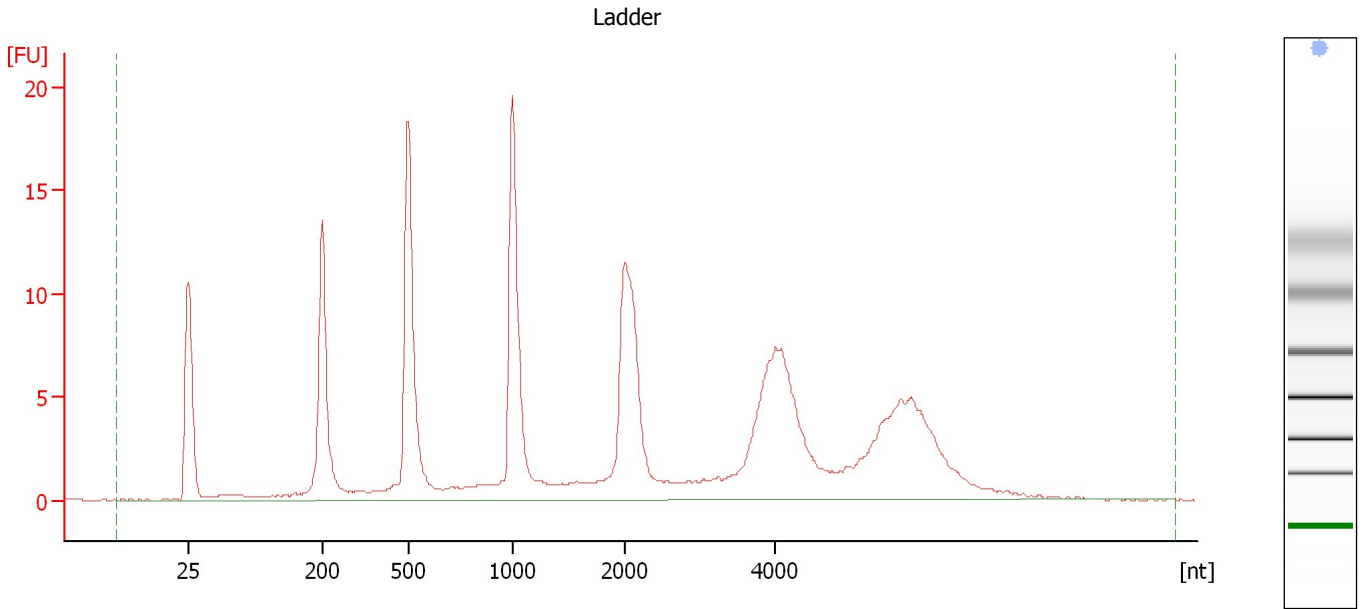
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary



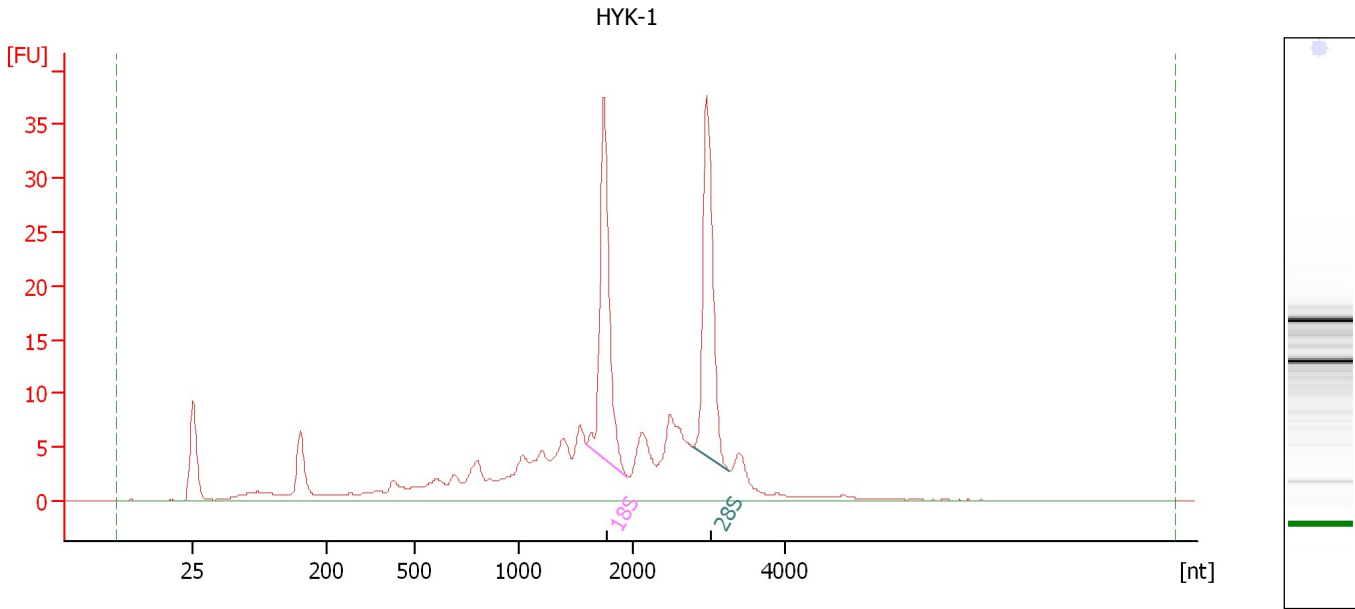
Overall Results for Ladder

RNA Area:	196.0	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\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HYK-1

RNA Area: 250.5 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 192 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 7.10

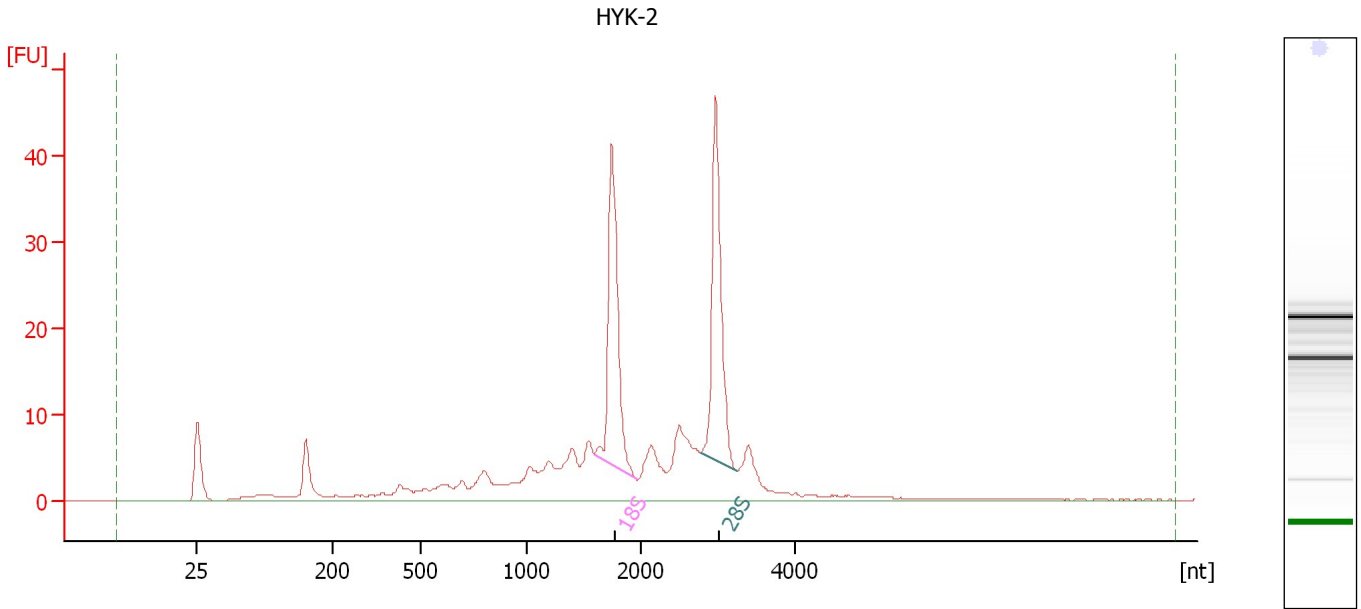
Fragment table for sample 1 : HYK-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,947	39.8	15.9
28S	2,784	3,252	36.9	14.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HYK-2

RNA Area:	265.1	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	203 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.40

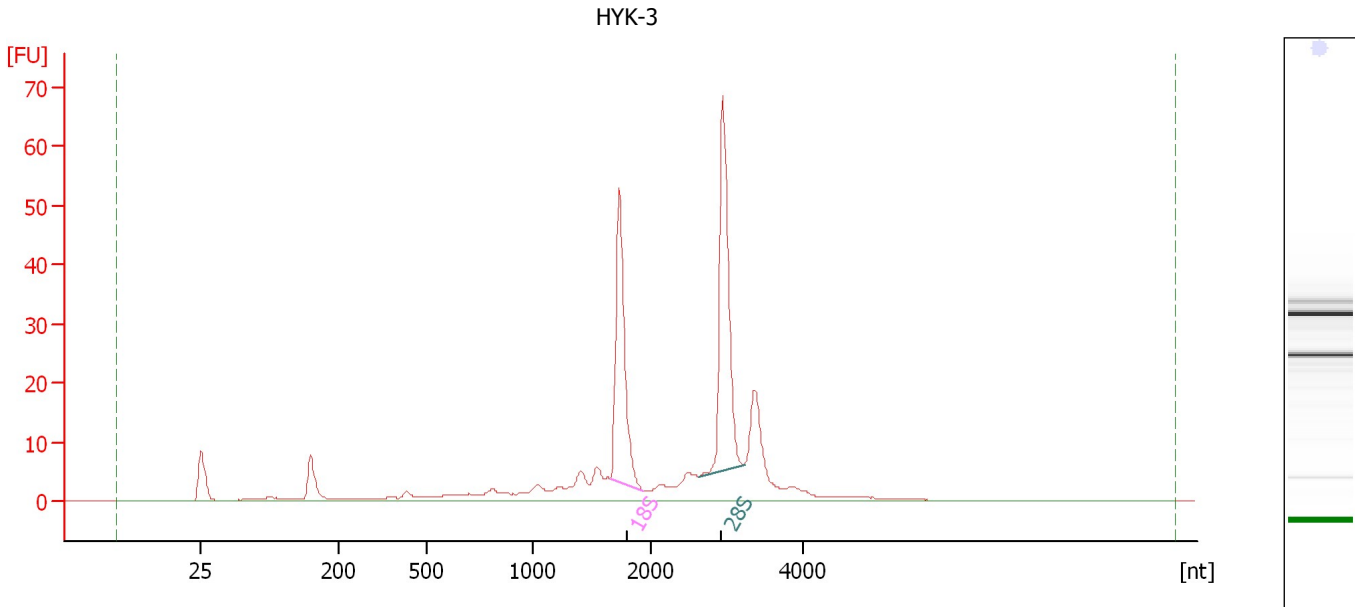
Fragment table for sample 2 : HYK-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	1,952	43.3	16.4
28S	2,783	3,247	43.4	16.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HYK-3

RNA Area:	272.6	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	209 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.40

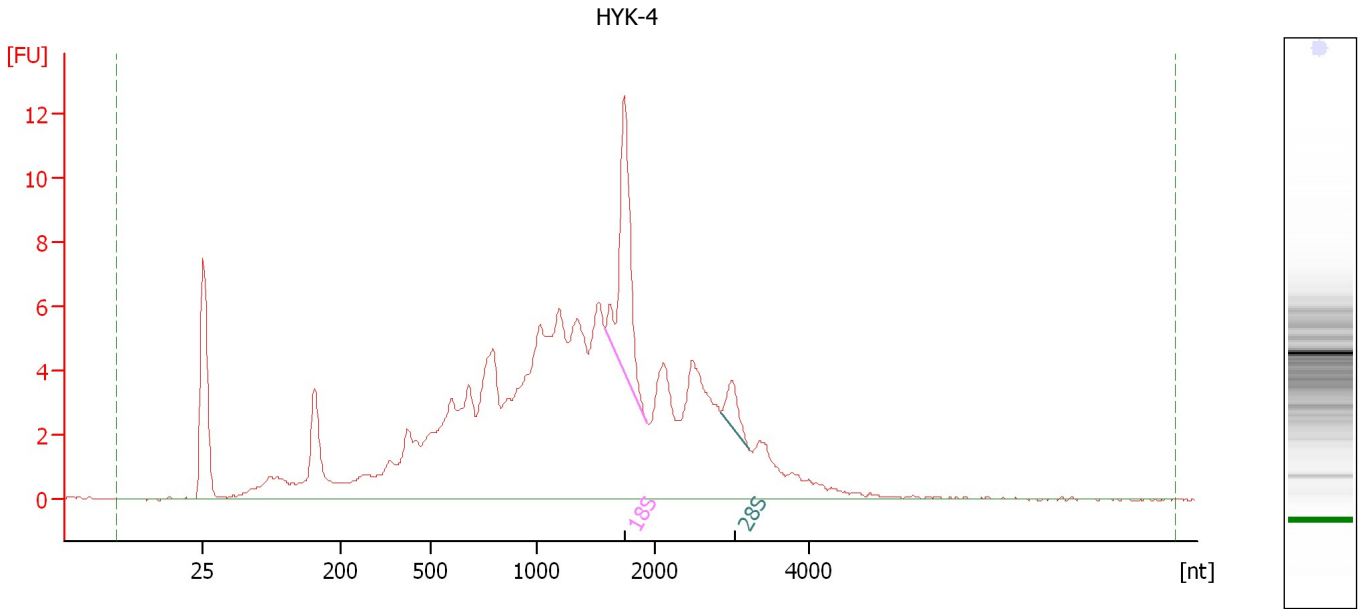
Fragment table for sample 3 : HYK-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	1,947	53.9	19.8
28S	2,643	3,228	61.4	22.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HYK-4

RNA Area: 182.1 RNA Integrity Number (RIN): 4.4 (B.02.08)
RNA Concentration: 139 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 4.40

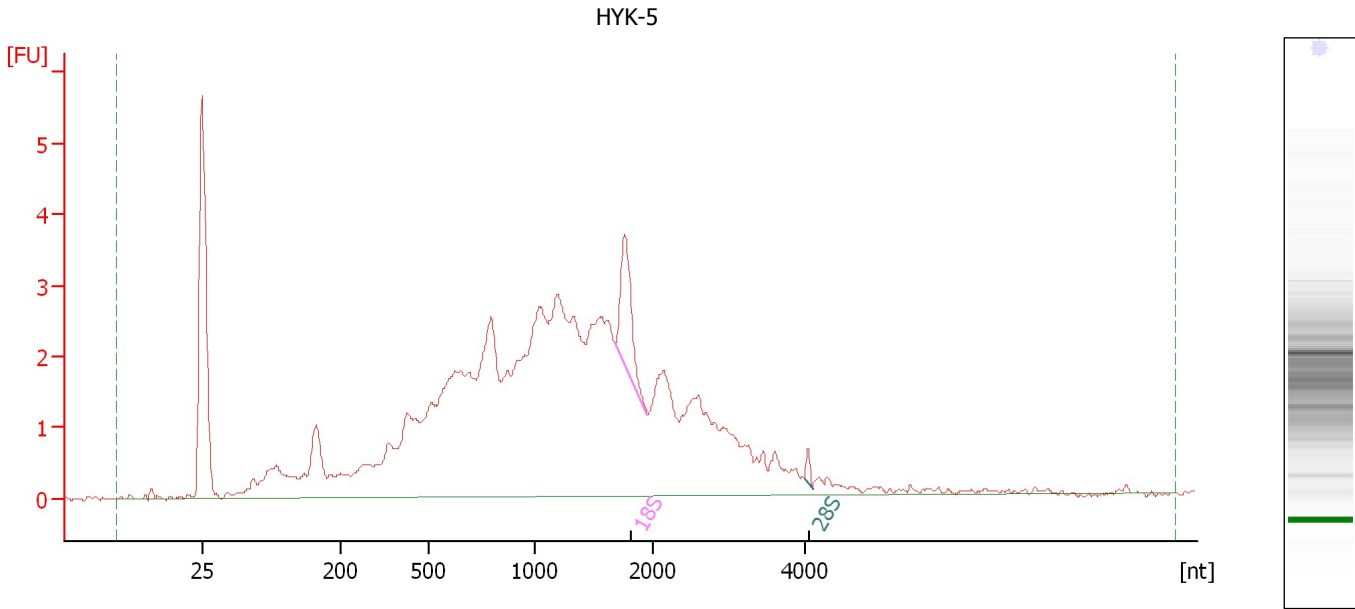
Fragment table for sample 4 : HYK-4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,940	11.6	6.4
28S	2,865	3,226	1.9	1.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HYK-5

RNA Area:	85.4	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	65 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 3.50

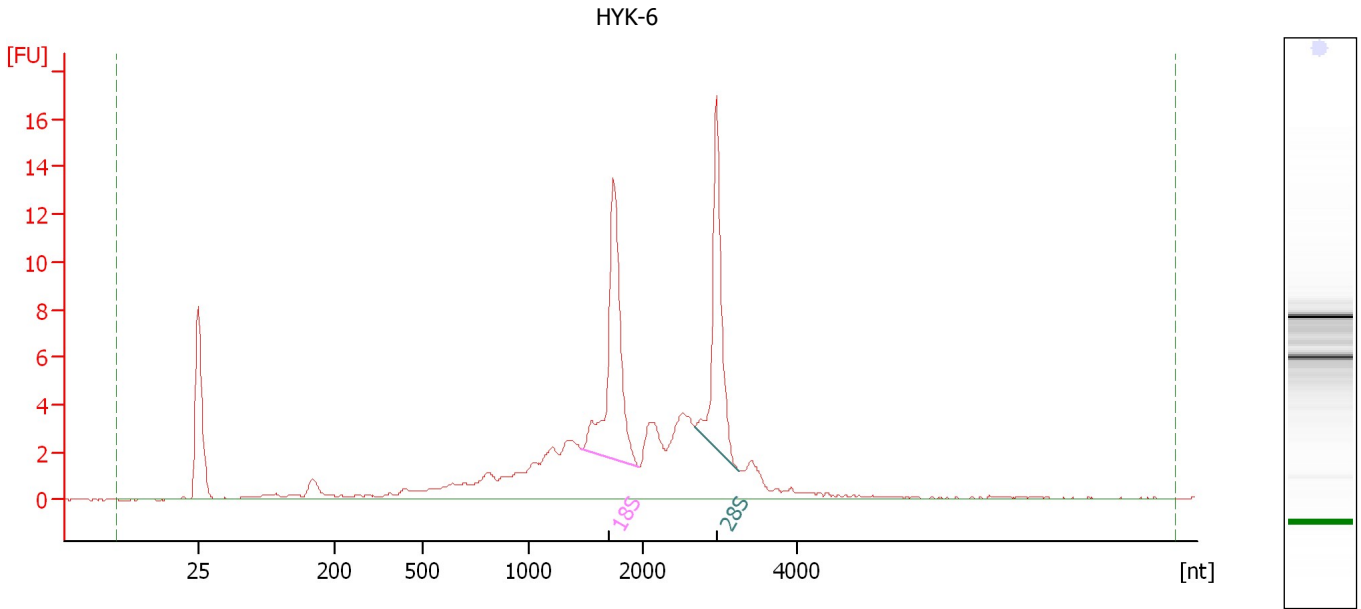
Fragment table for sample 5 : HYK-5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,682	1,957	2.5	2.9
28S	3,977	4,088	0.2	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HYK-6

RNA Area:	103.3	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	79 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 7.70

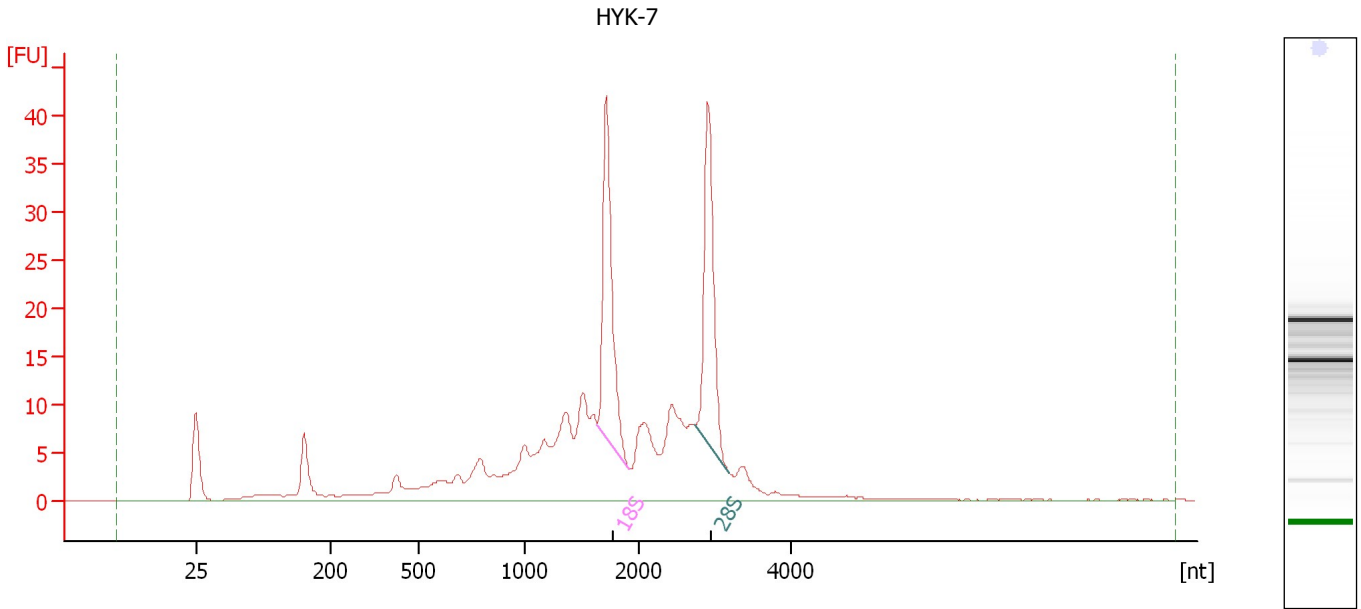
Fragment table for sample 6 : HYK-6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,462	1,962	18.2	17.6
28S	2,671	3,246	14.5	14.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HYK-7

RNA Area: 301.5 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 231 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 6.70

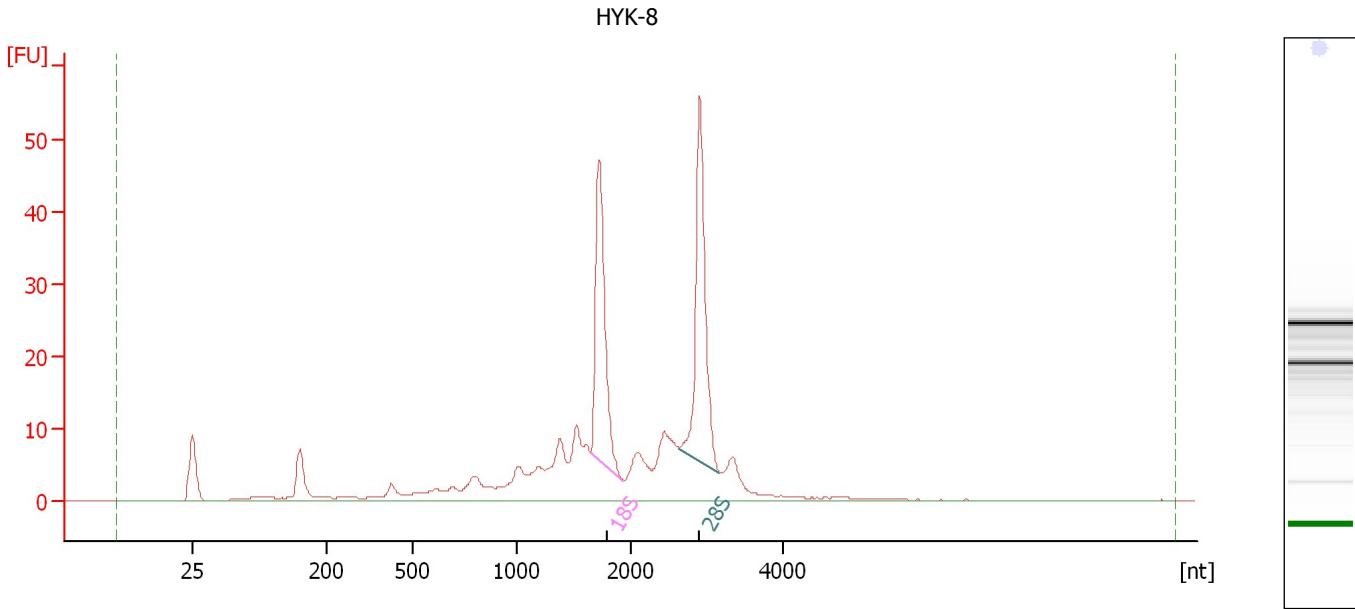
Fragment table for sample 7 : HYK-7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,904	41.5	13.7
28S	2,713	3,164	37.0	12.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HYK-8

RNA Area: 295.9 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 226 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 7.50

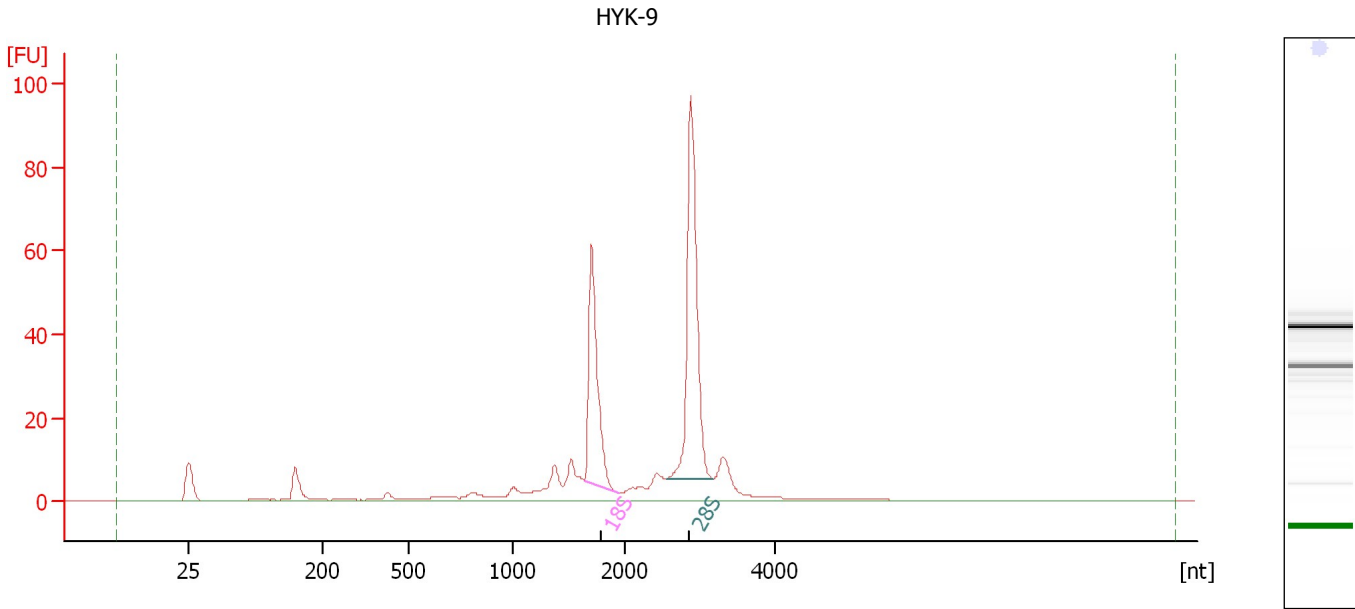
Fragment table for sample 8 : HYK-8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,927	47.9	16.2
28S	2,628	3,168	54.9	18.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HYK-9

RNA Area:	317.5	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	243 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.80

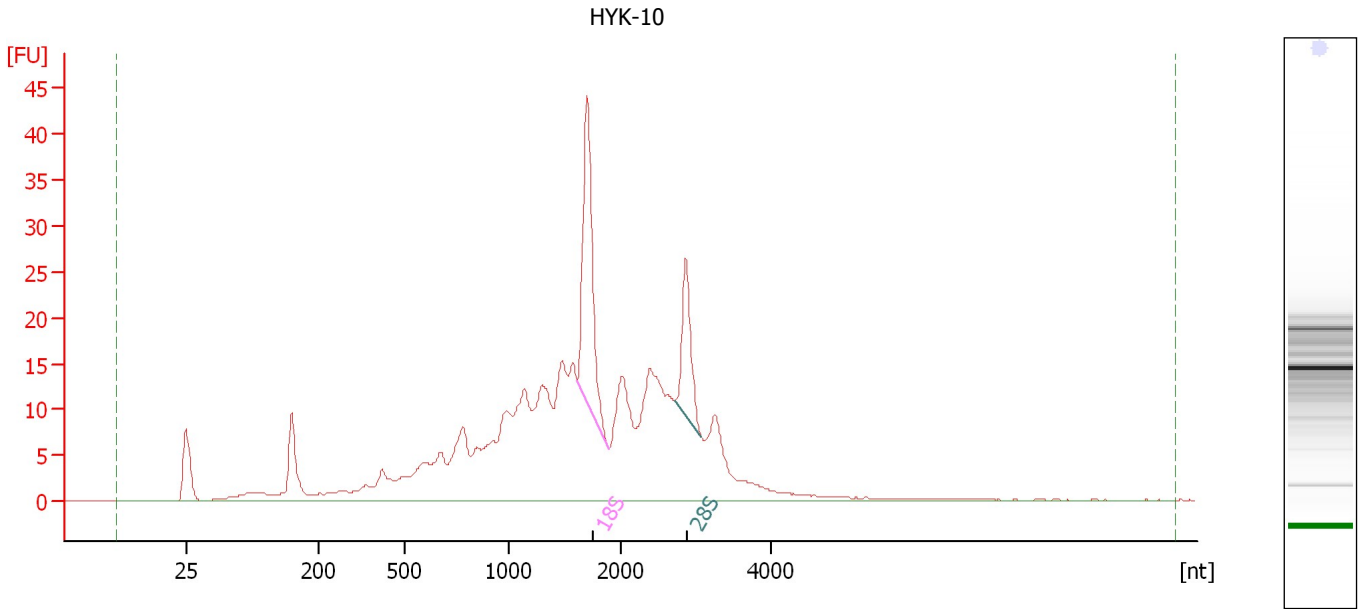
Fragment table for sample 9 : HYK-9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,933	65.2	20.5
28S	2,557	3,157	98.8	31.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HYK-10

RNA Area:	440.7	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	337 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 5.40

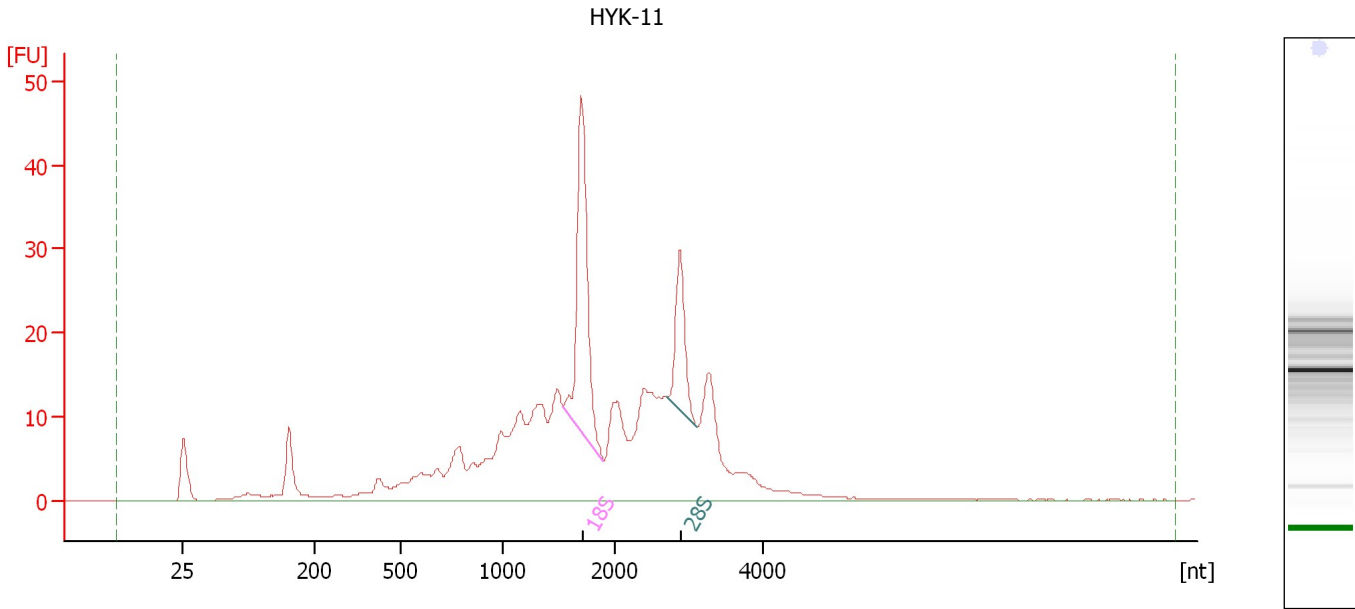
Fragment table for sample 10 : HYK-10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,884	41.0	9.3
28S	2,728	3,073	17.6	4.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HYK-11

RNA Area: 419.8 RNA Integrity Number (RIN): 6 (B.02.08)
RNA Concentration: 321 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN:6

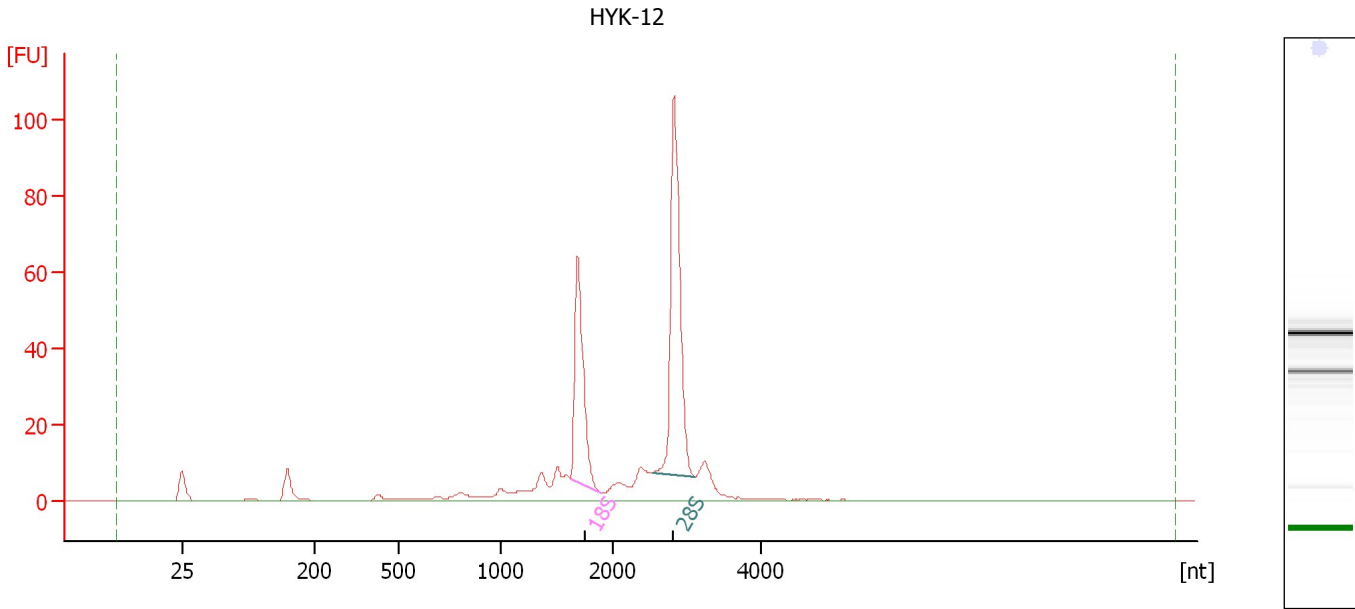
Fragment table for sample 11 : HYK-11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,537	1,890	52.1	12.4
28S	2,700	3,090	20.4	4.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
 Modified: 7/18/2013 5:06:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : HYK-12

RNA Area:	341.5	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	261 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.90

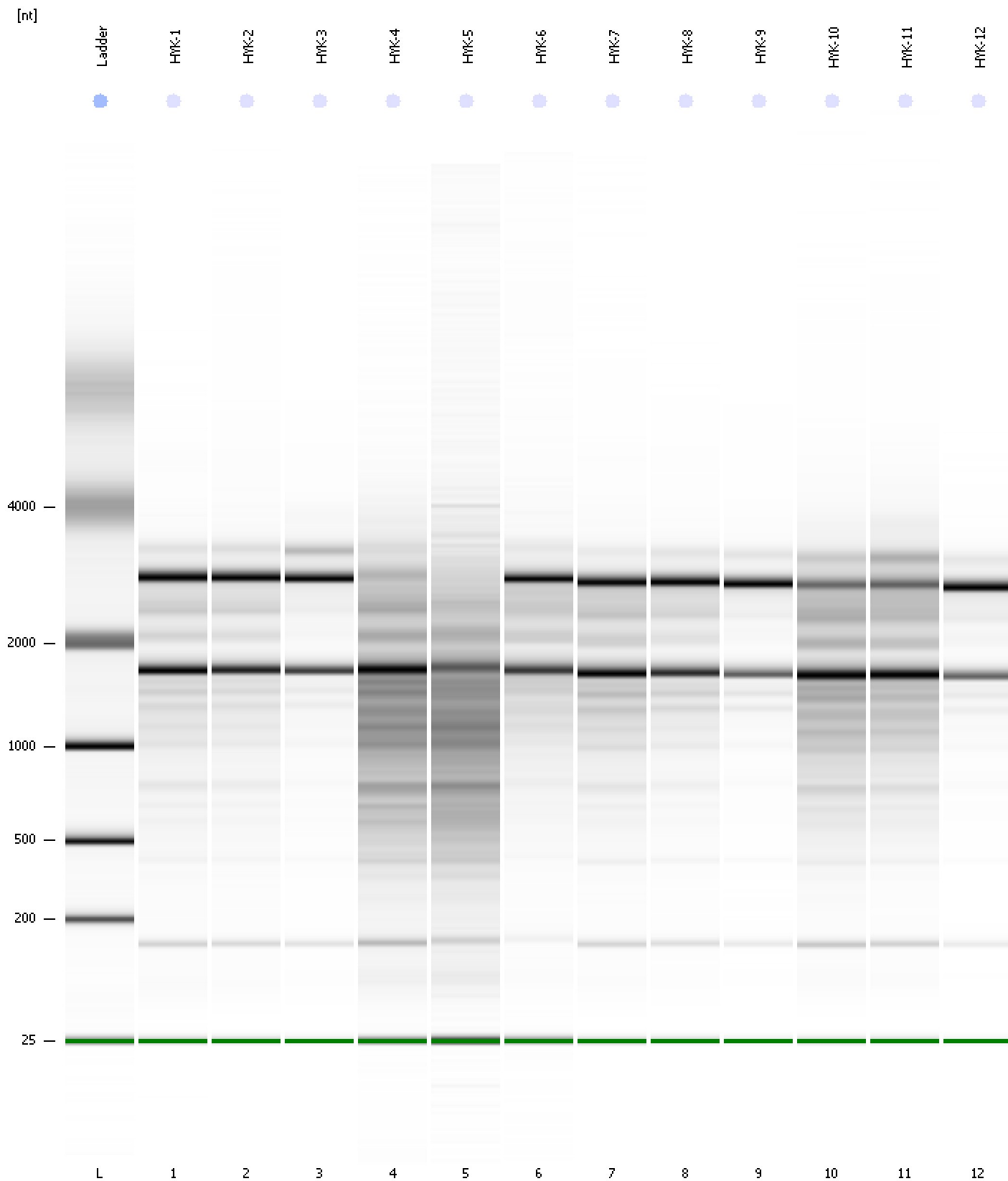
Fragment table for sample 12 : HYK-12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,888	67.4	19.7
28S	2,526	3,105	107.2	31.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad

Created: 7/18/2013 4:42:09 PM
Modified: 7/18/2013 5:06:02 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 7/18/2013 4:42:09 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad Modified: 7/18/2013 5:06:02 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		7/18/2013 5:05:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-18\2013-07-18_005.xad)		Instrument	Run		7/18/2013 4:42:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/18/2013 4:42:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/18/2013 4:42:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/18/2013 4:42:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/18/2013 4:42:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/18/2013 4:42:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/18/2013 4:42:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1