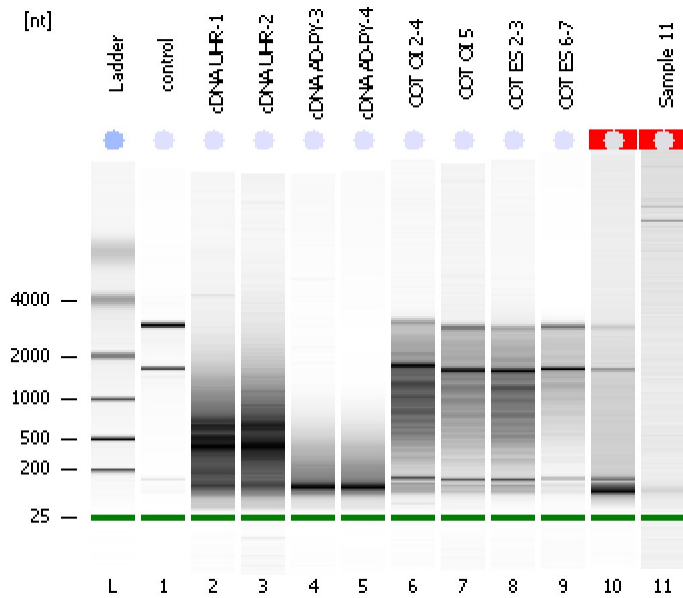


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electrophoresis File Run Summary



Instrument Information:

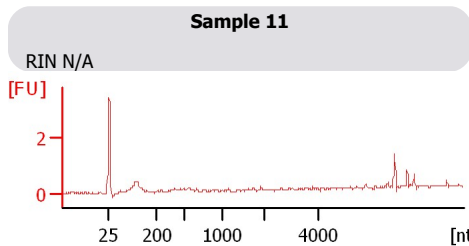
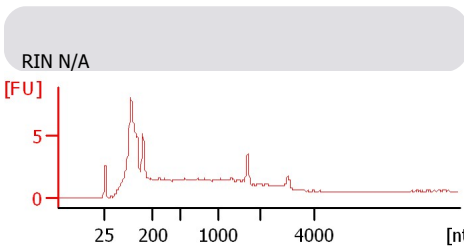
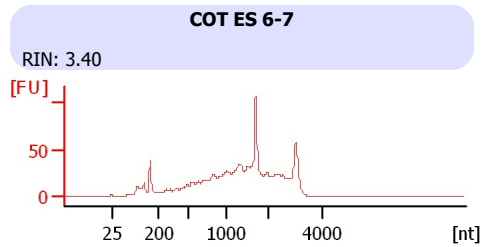
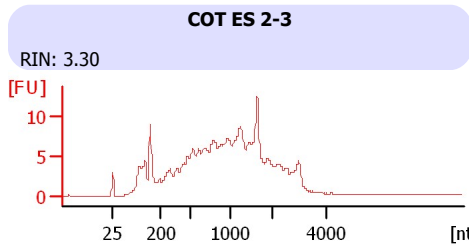
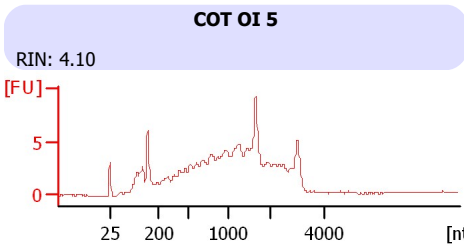
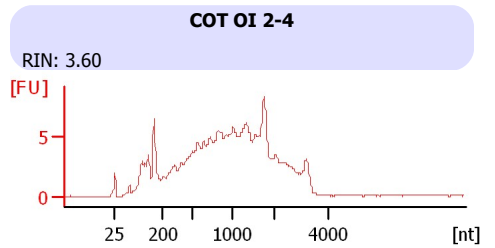
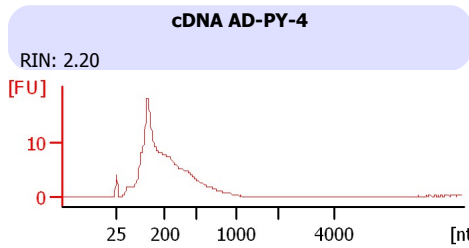
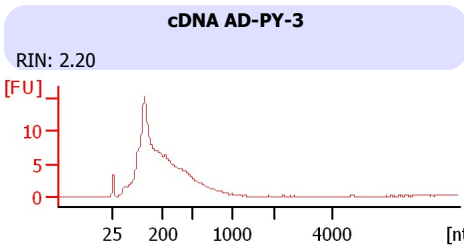
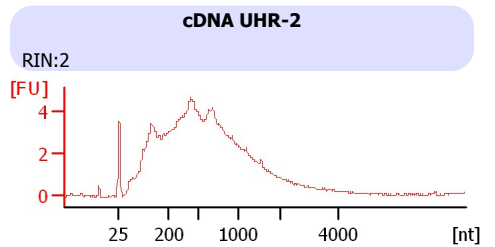
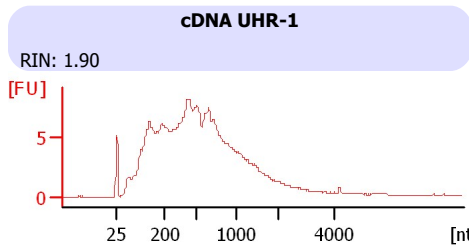
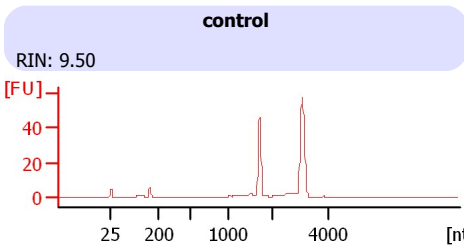
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
control		✓	RIN: 9.50	
cDNA UHR-1		✓	RIN: 1.90	
cDNA UHR-2		✓	RIN:2	
cDNA AD-PY-3		✓	RIN: 2.20	
cDNA AD-PY-4		✓	RIN: 2.20	
COT OI 2-4		✓	RIN: 3.60	
COT OI 5		✓	RIN: 4.10	
COT ES 2-3		✓	RIN: 3.30	
COT ES 6-7		✓	RIN: 3.40	
		✓	RIN N/A	
Sample 11		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

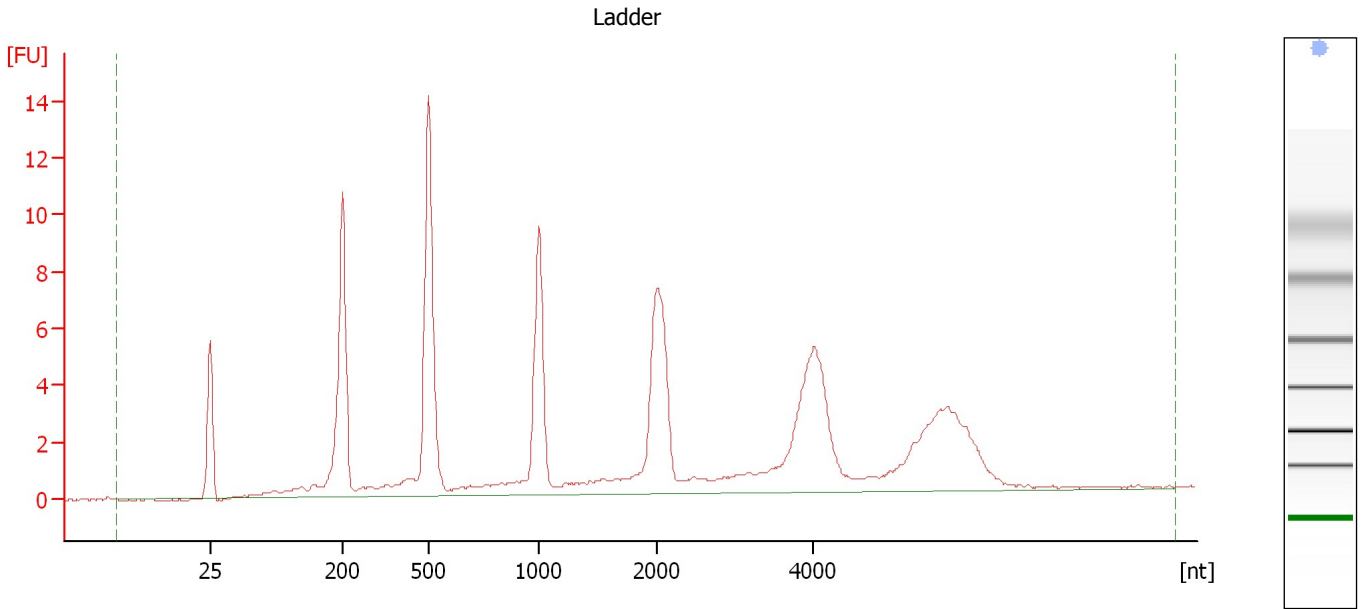
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary



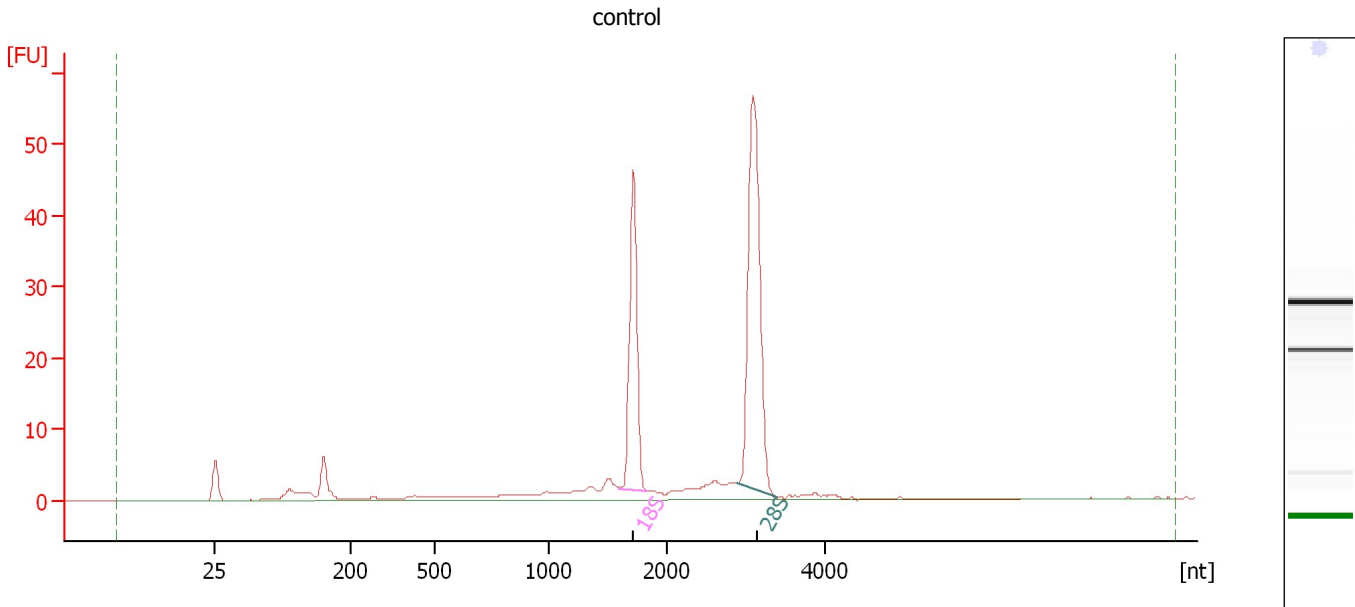
Overall Results for Ladder

RNA Area:	114.2	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : control

RNA Area: 176.7 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 1,547 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.50

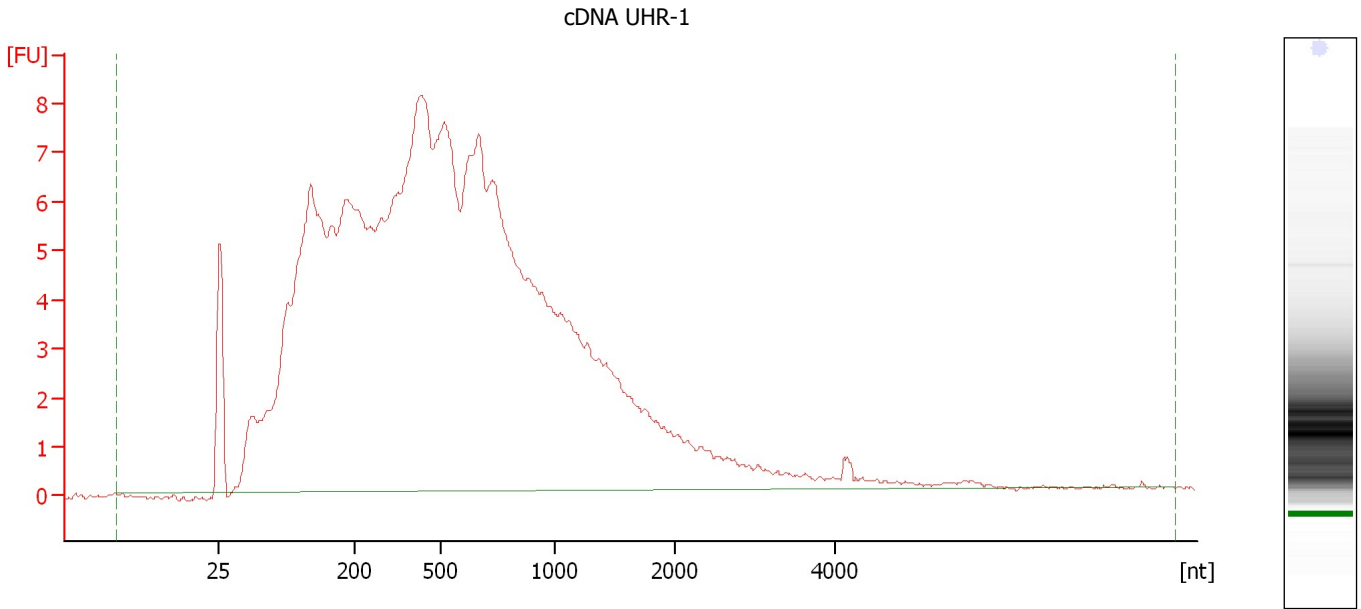
Fragment table for sample 1 : control

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,595	1,827	41.4	23.4
28S	2,889	3,377	70.3	39.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...



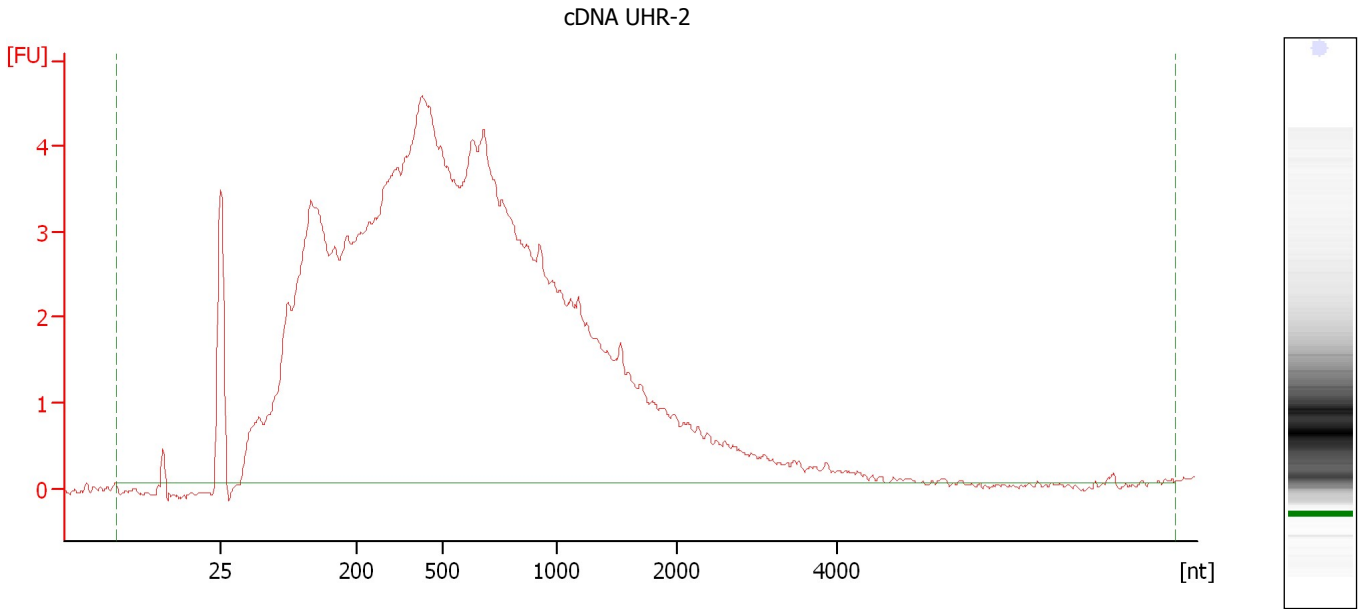
Overall Results for sample 2 : cDNA UHR-1

RNA Area:	271.6	RNA Integrity Number (RIN):	1.9 (B.02.08)
RNA Concentration:	2,378 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.90

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : cDNA UHR-2

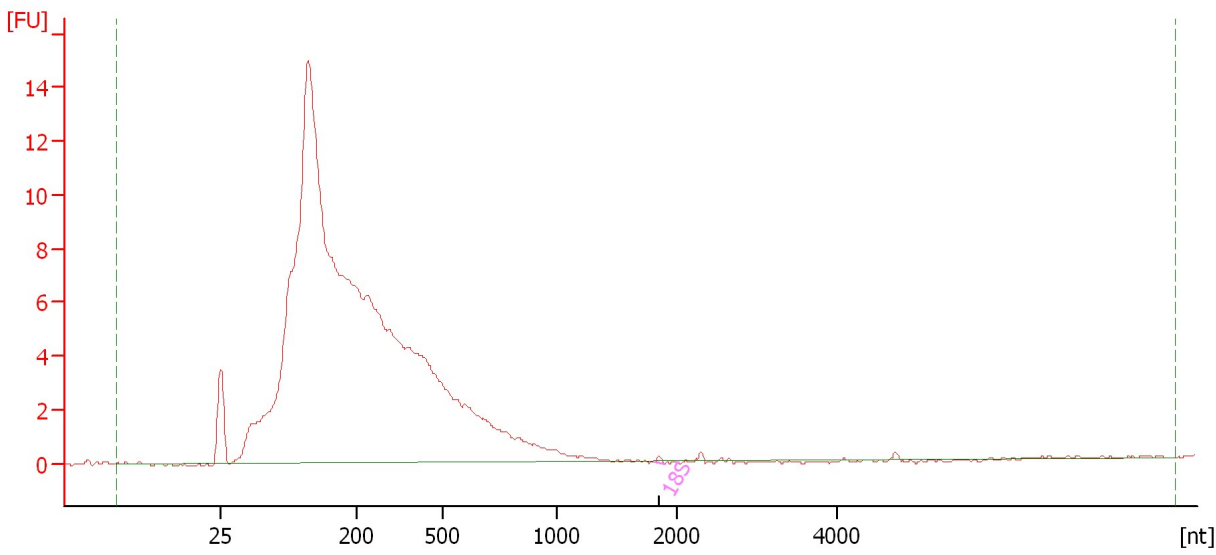
RNA Area:	154.6	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	1,354 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...

cDNA AD-PY-3



Overall Results for sample 4 : cDNA AD-PY-3

RNA Area:	195.8	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	1,715 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Fragment table for sample 4 : cDNA AD-PY-3

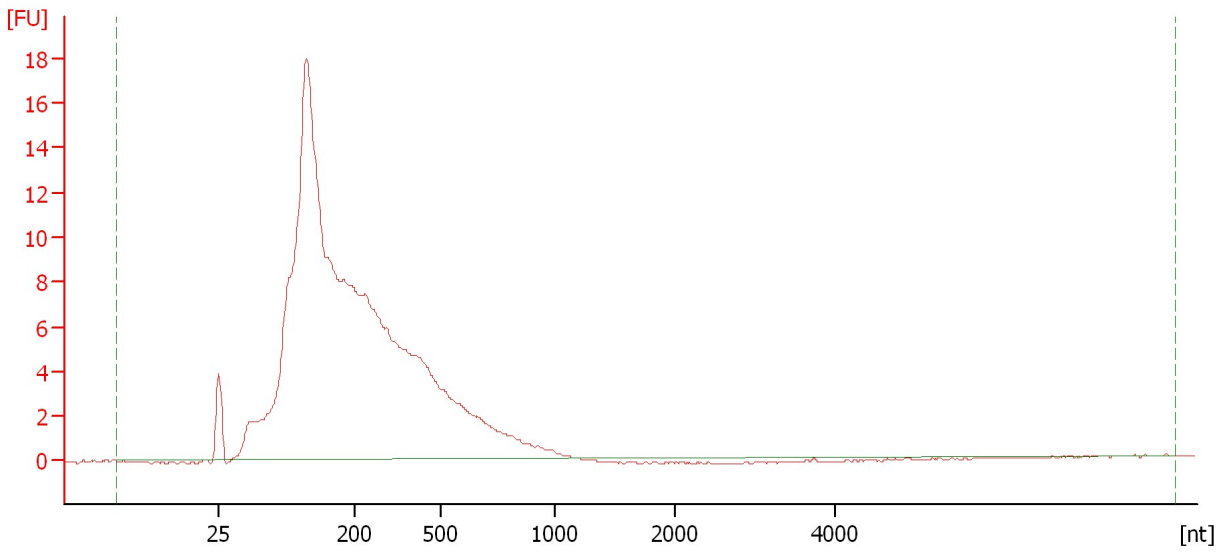
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,807	1,887	0.1	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...

cDNA AD-PY-4



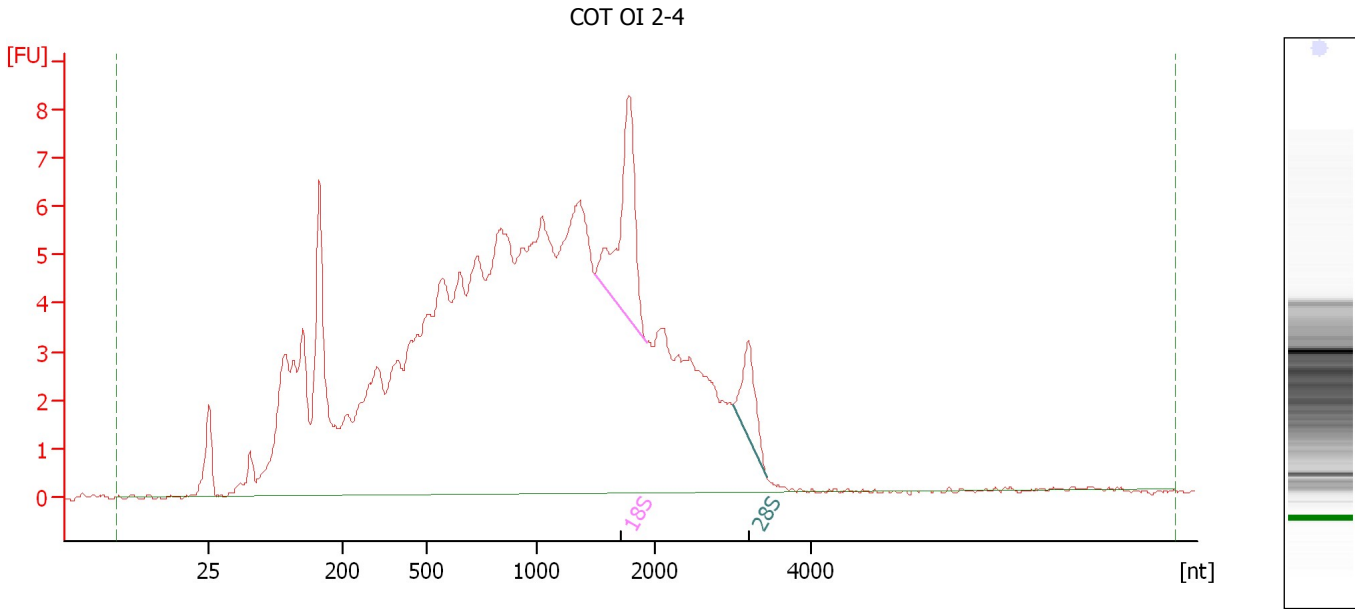
Overall Results for sample 5 : cDNA AD-PY-4

RNA Area:	223.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	1,957 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : COT OI 2-4

RNA Area:	225.2	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	1,972 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 3.60

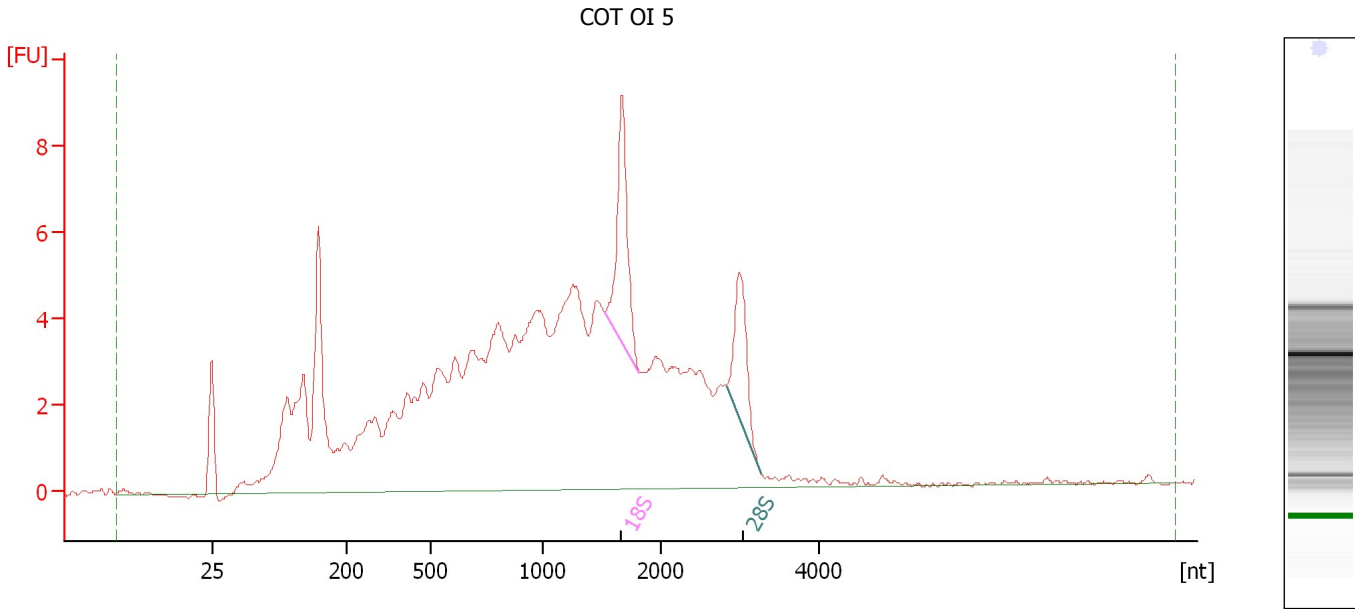
Fragment table for sample 6 : COT OI 2-4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,493	1,917	8.7	3.9
28S	2,986	3,425	2.9	1.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : COT OI 5

RNA Area: 176.0 RNA Integrity Number (RIN): 4.1 (B.02.08)
RNA Concentration: 1,541 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 4.10

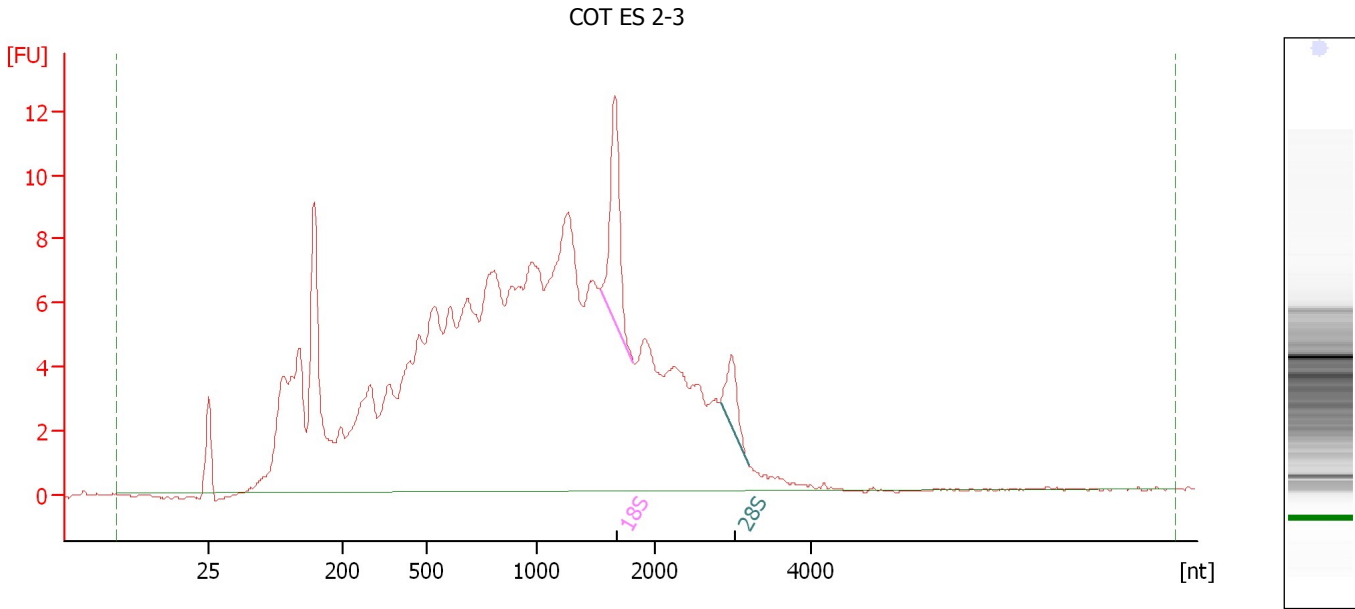
Fragment table for sample 7 : COT OI 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,526	1,813	7.2	4.1
28S	2,821	3,258	4.7	2.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : COT ES 2-3

RNA Area: 282.7 RNA Integrity Number (RIN): 3.3 (B.02.08)
RNA Concentration: 2,475 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 3.30

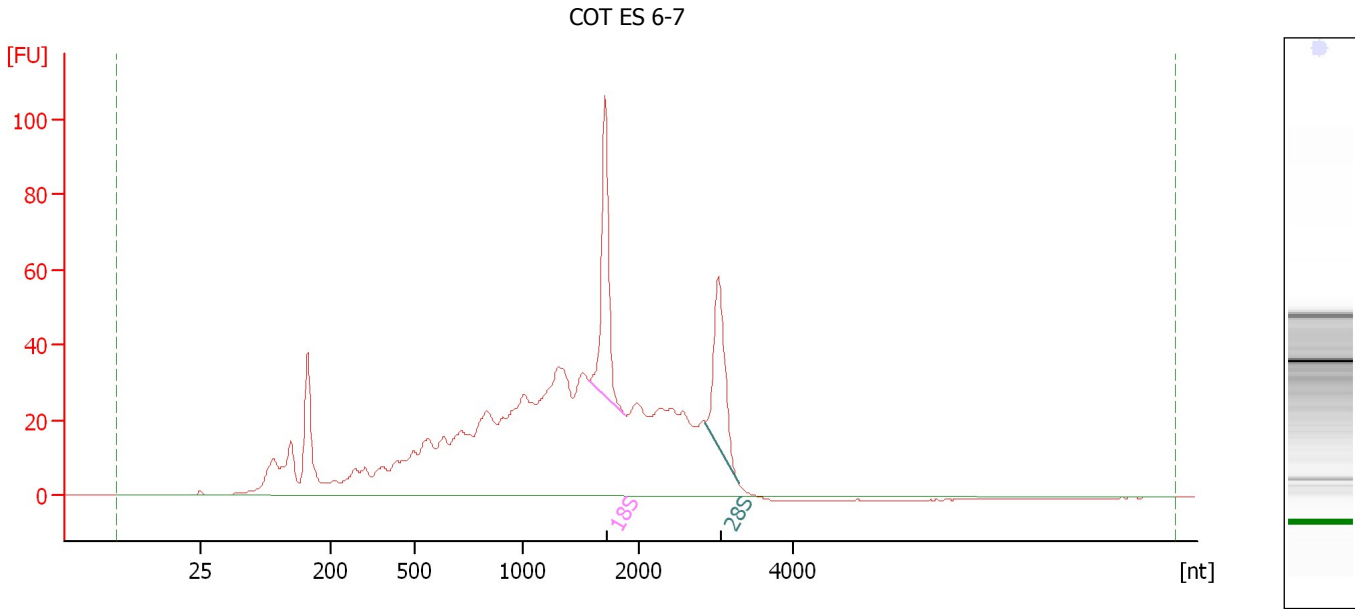
Fragment table for sample 8 : COT ES 2-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,529	1,809	8.2	2.9
28S	2,835	3,192	2.8	1.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : COT ES 6-7

RNA Area: 1,131.6 RNA Integrity Number (RIN): 3.4 (B.02.08)
RNA Concentration: 9,908 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 3.40

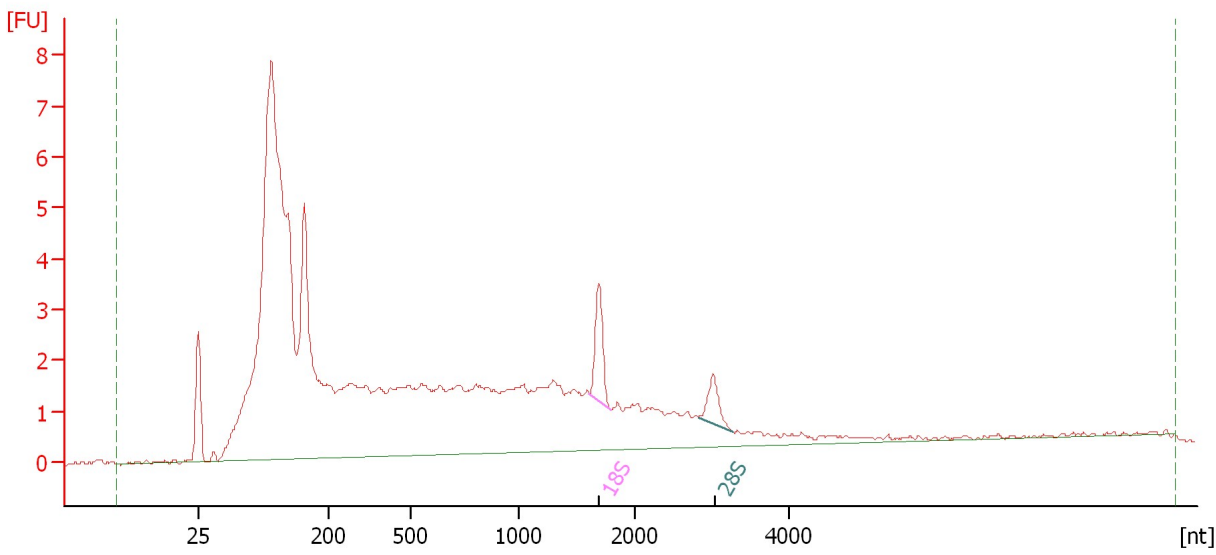
Fragment table for sample 9 : COT ES 6-7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,870	75.3	6.7
28S	2,864	3,297	56.7	5.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 :

RNA Area:	115.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,010 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN N/A

Fragment table for sample 10 :

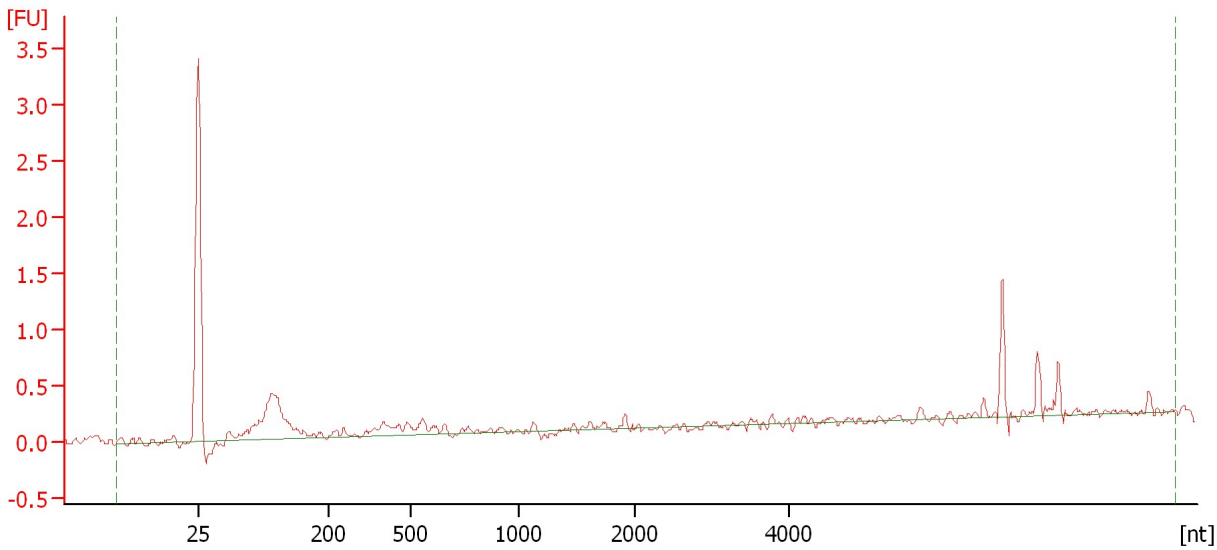
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,784	2.1	1.8
28S	2,822	3,285	1.2	1.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Electropherogram Summary Continued ...

Sample 11



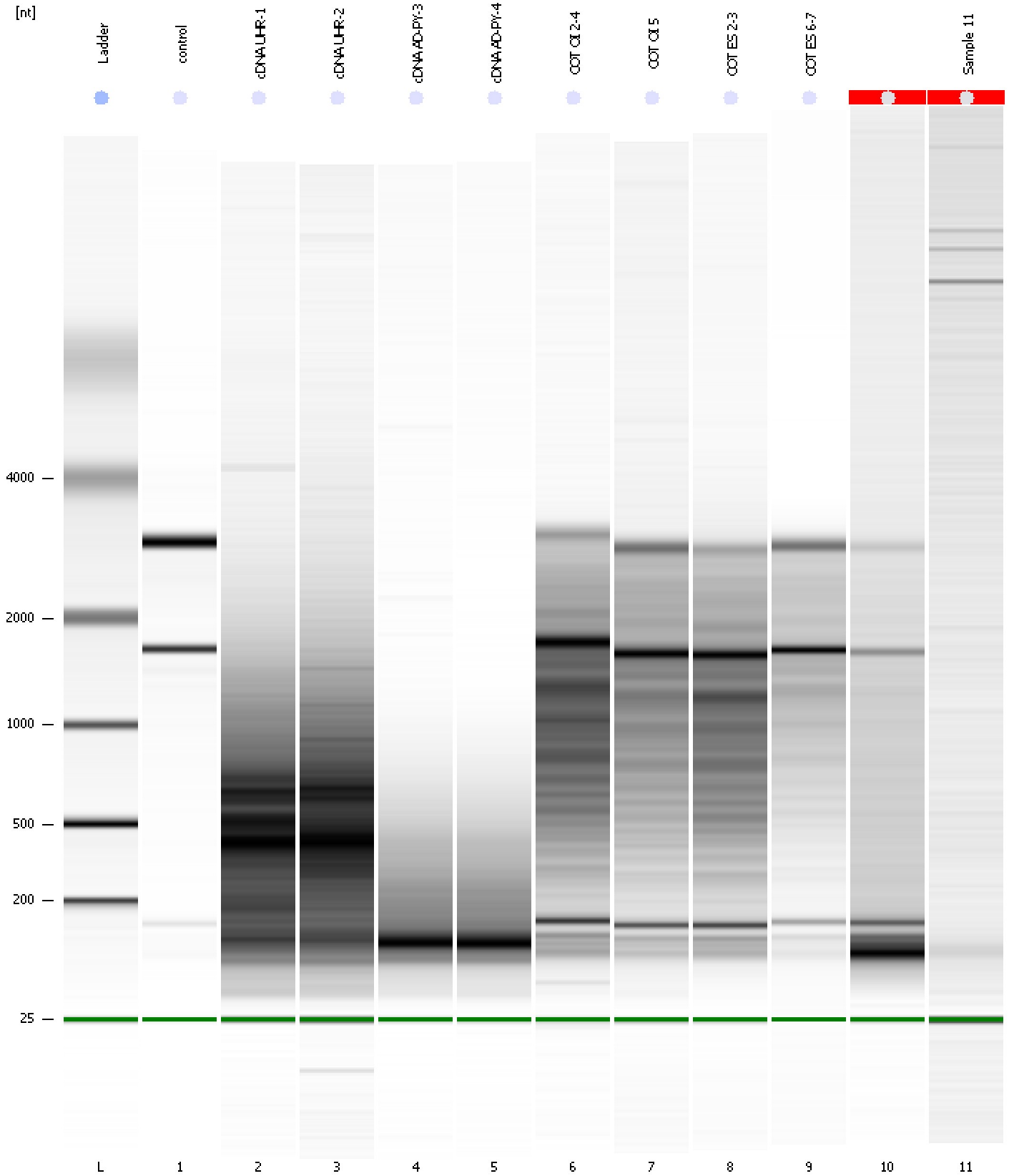
Overall Results for sample 11 : Sample 11

RNA Area:	5.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	48 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad

Created: 3/7/2012 2:32:18 PM
Modified: 3/7/2012 2:59:01 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad
 Created: 3/7/2012 2:32:18 PM
 Modified: 3/7/2012 2:59:01 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/7/2012 2:55:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-07\2012-03-07_003.xad)		Instrument	Run		3/7/2012 2:32:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/7/2012 2:32:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/7/2012 2:32:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/7/2012 2:32:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/7/2012 2:32:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/7/2012 2:32:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/7/2012 2:32:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1