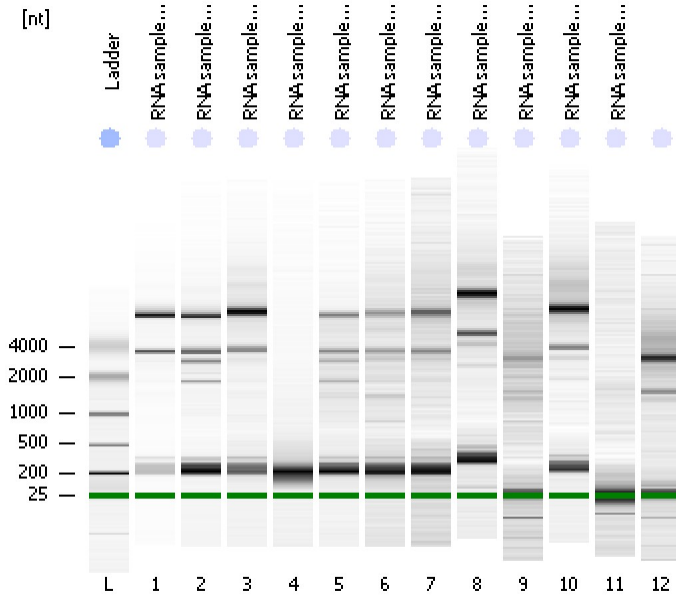


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electrophoresis File Run Summary



Instrument Information:

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

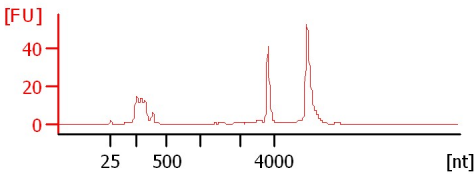
Assay Information:

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.

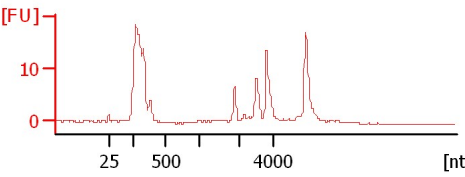
Chip Information:

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

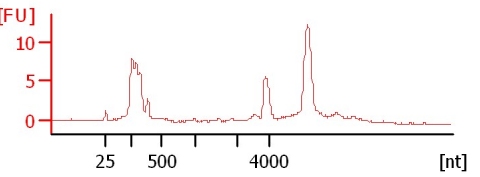
RNA sample No. 9 directzol
RIN: 9.50



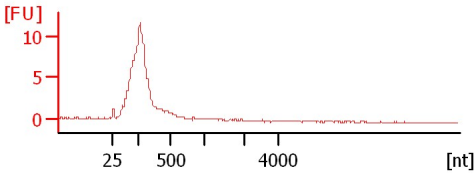
RNA sample No. 32 Directzol
RIN: 7.60



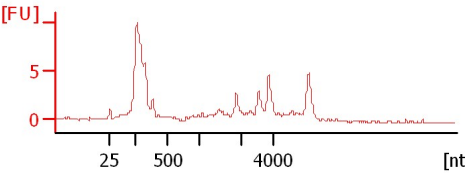
RNA sample No. 33 Directzol
RIN: 8.80



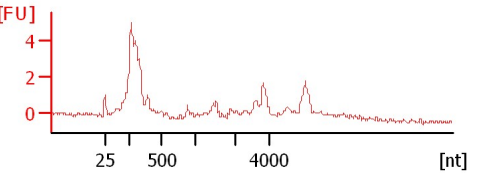
RNA sample No. 34 Directzol
RIN: 2.50



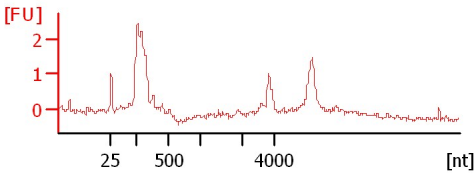
RNA sample No. 64 Directzol
RIN: 5.40



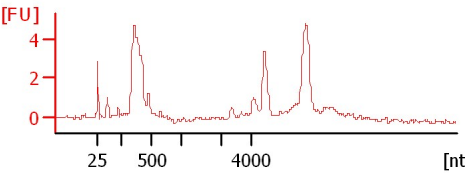
RNA sample No. 65 Directzol
RIN: 5.70



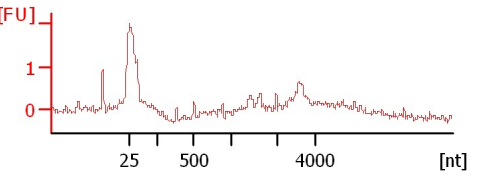
RNA sample No. 73 CZ big Directzol
RIN: 6.60



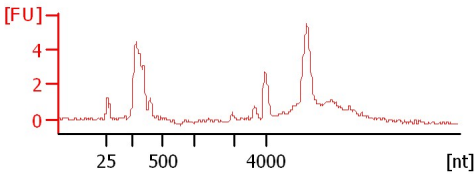
RNA sample No. 74 CZ big Directzol
RIN: 7.80



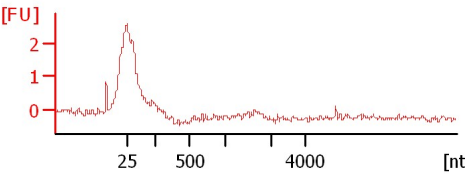
RNA sample No. 75 CZ big Directzol
RIN: 2.90



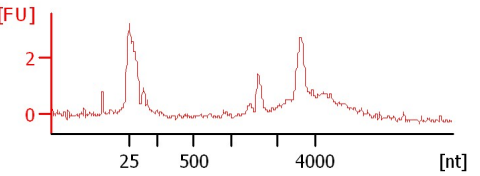
RNA sample No. 76 CZ big Directzol
RIN: 7.90



RNA sample No. 77 CZ big Directzol
RIN: 2.20



RNA sample No. 77 CZ big Directzol
RIN: 6.40



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
RNA sample No. 9 directzol		✓	RIN: 9.50	
RNA sample No. 32 Directzol		✓	RIN: 7.60	
RNA sample No. 33 Directzol		✓	RIN: 8.80	
RNA sample No. 34 Directzol		✓	RIN: 2.50	
RNA sample No. 64 Directzol		✓	RIN: 5.40	
RNA sample No. 65 Directzol		✓	RIN: 5.70	
RNA sample No. 73 CZ big		✓	RIN: 6.60	
RNA sample No. 74 CZ big		✓	RIN: 7.80	
RNA sample No. 75 CZ big		✓	RIN: 2.90	
RNA sample No. 76 CZ big		✓	RIN: 7.90	
RNA sample No. 77 CZ big		✓	RIN: 2.20	
Ladder		✓	RIN: 6.40	
		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 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

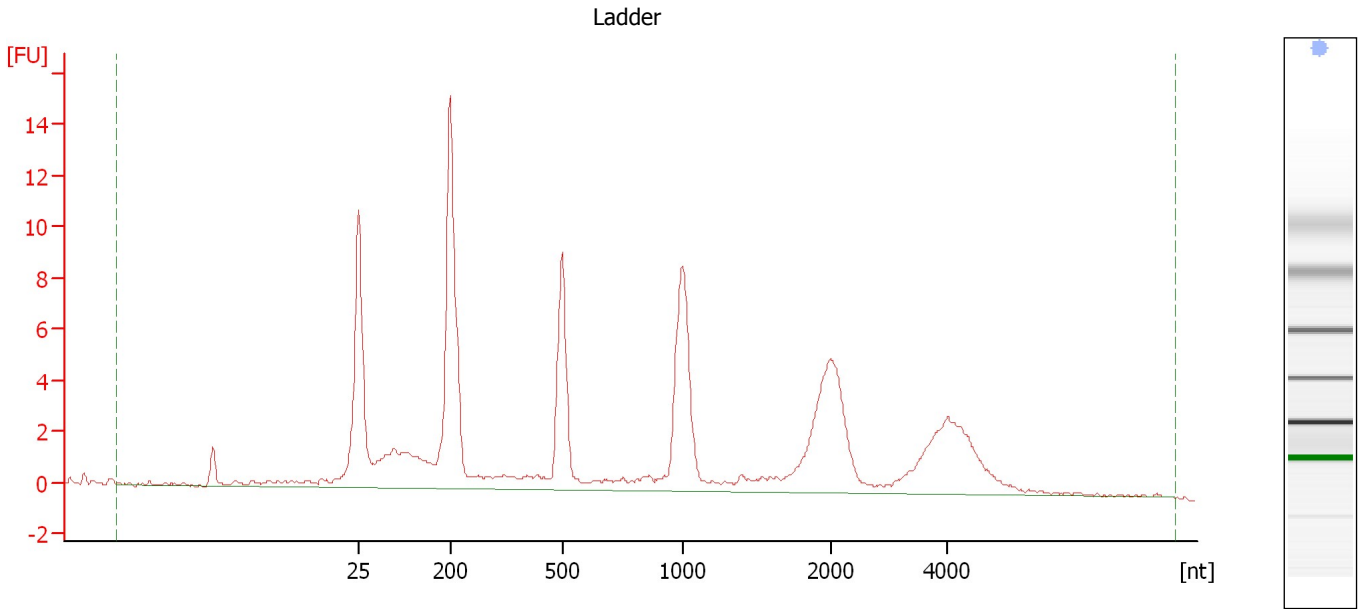
Ladder

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\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary



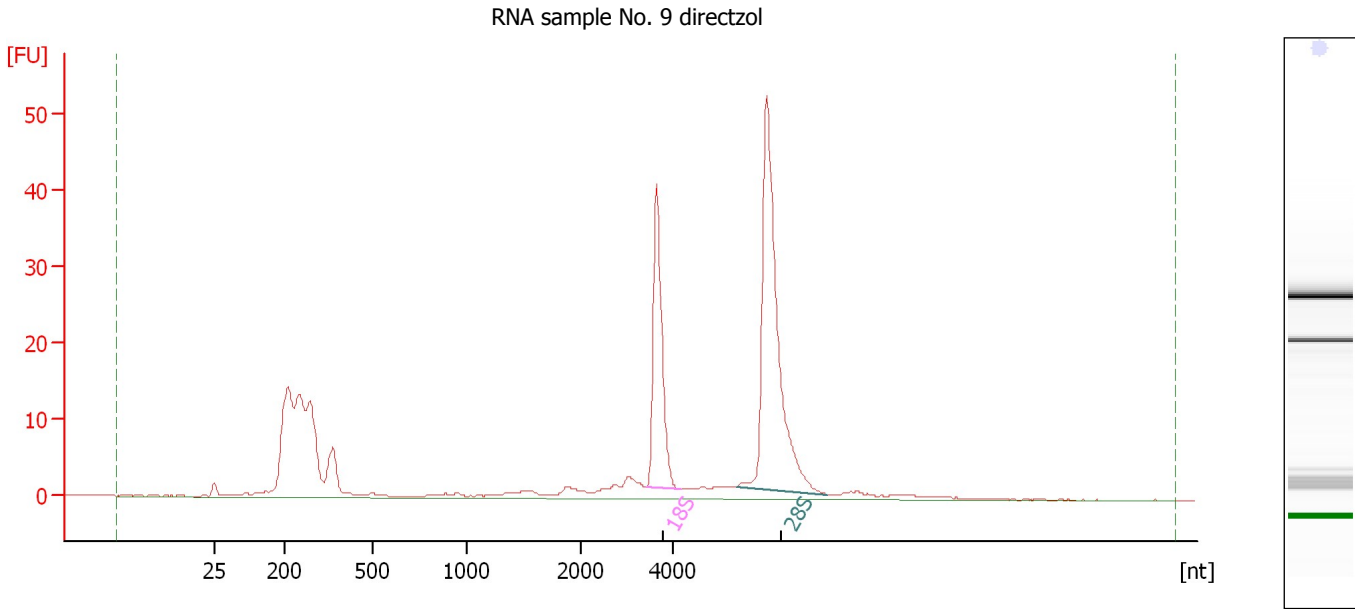
Overall Results for Ladder

RNA Area:	110.2	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\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RNA sample No. 9 directzol

RNA Area:	273.8	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	373 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.50

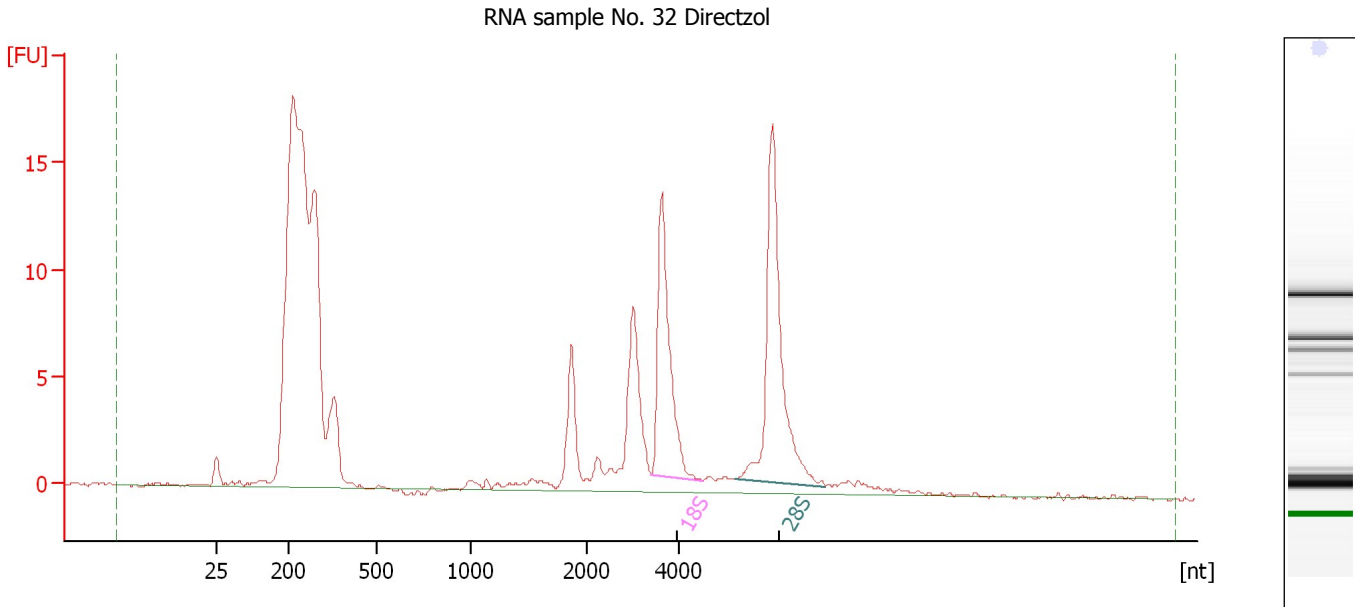
Fragment table for sample 1 : RNA sample No. 9 directzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,417	4,170	41.2	15.1
28S	5,417	7,418	83.2	30.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
 Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RNA sample No. 32 Directzol

RNA Area:	190.4	RNA Integrity Number (RIN):	7.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	259 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.60

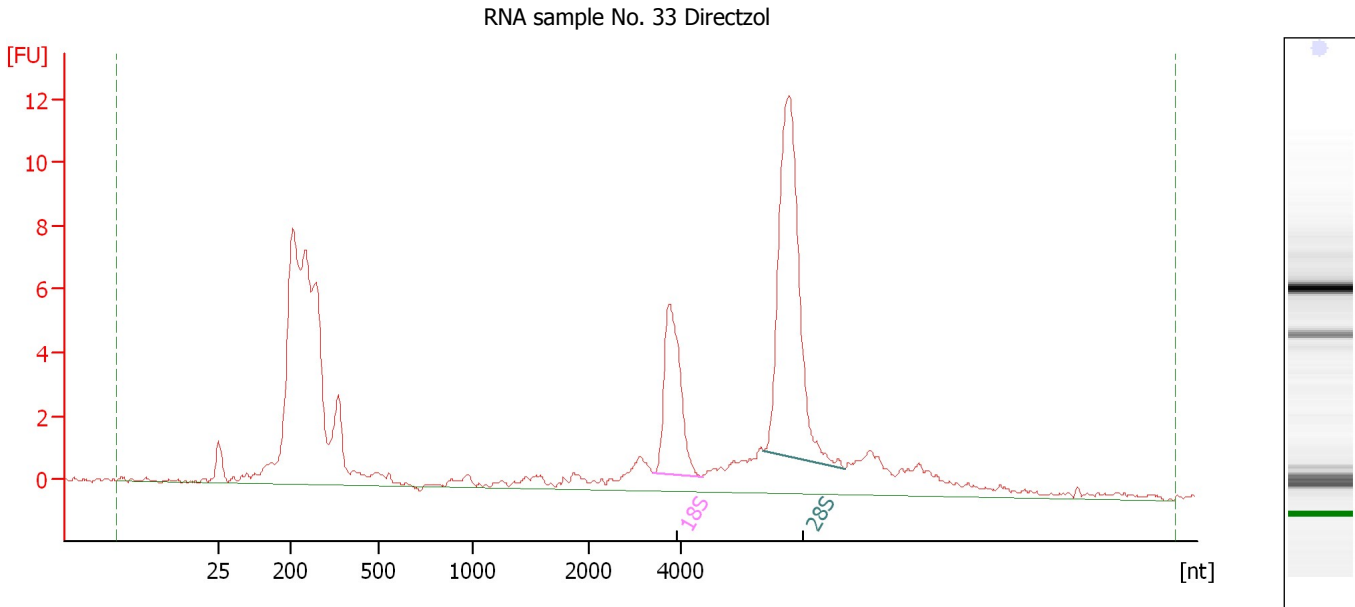
Fragment table for sample 2 : RNA sample No. 32 Directzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,404	4,527	17.8	9.4
28S	5,252	7,217	25.3	13.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
 Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RNA sample No. 33 Directzol

RNA Area:	124.0	RNA Integrity Number (RIN):	8.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	169 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 8.80

Fragment table for sample 3 : RNA sample No. 33 Directzol

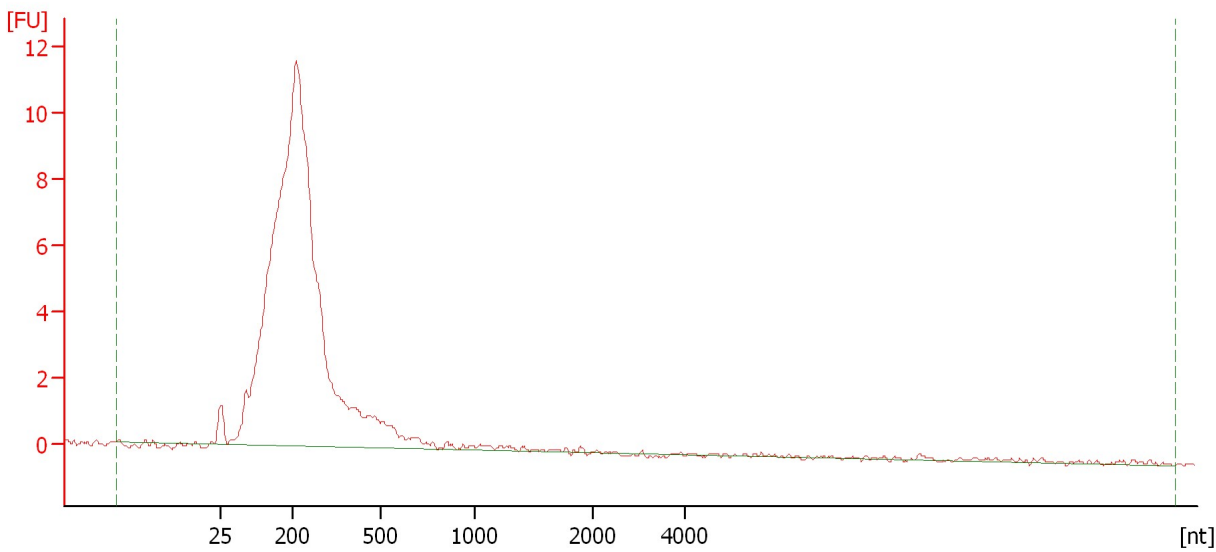
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,408	4,482	10.5	8.4
28S	5,812	7,586	24.8	20.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...

RNA sample No. 34 Directzol



Overall Results for sample 4 : RNA sample No. 34 Directzol

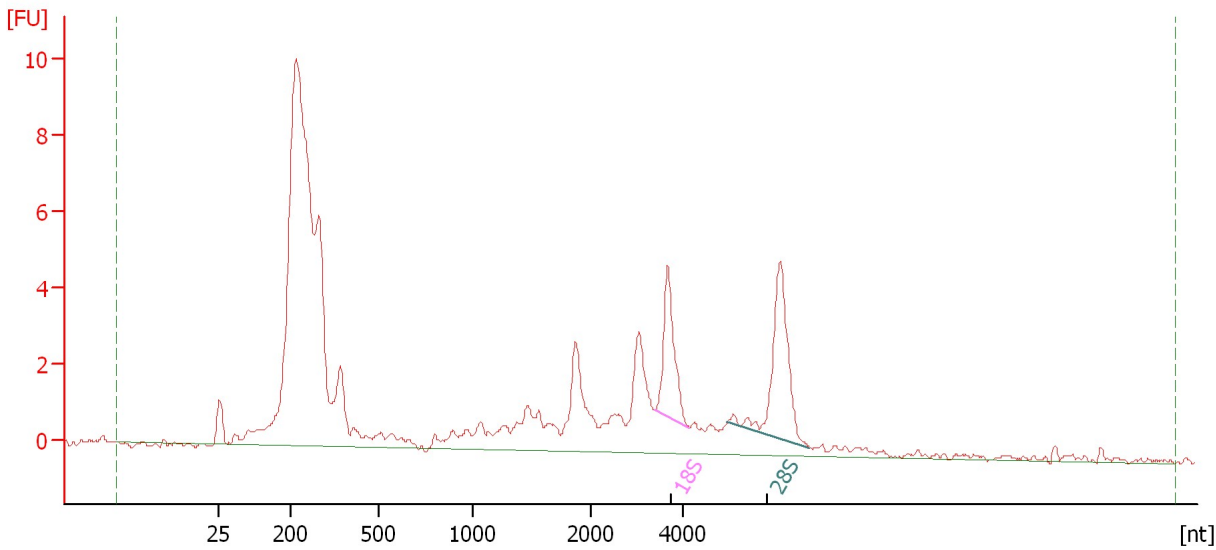
RNA Area:	104.3	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	142 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...

RNA sample No. 64 Directzol



Overall Results for sample 5 : RNA sample No. 64 Directzol

RNA Area:	107.0	RNA Integrity Number (RIN):	5.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	146 ng/μl		
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Color:	
		Result Flagging Label:	RIN: 5.40

Fragment table for sample 5 : RNA sample No. 64 Directzol

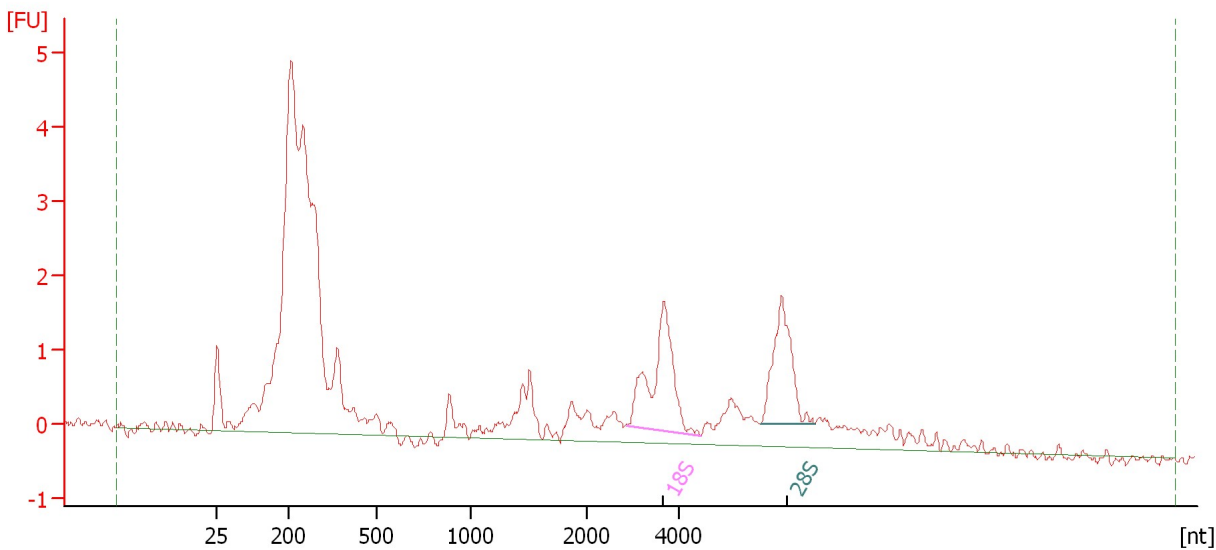
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,389	4,157	4.9	4.6
28S	4,973	6,766	7.7	7.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
 Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...

RNA sample No. 65 Directzol



Overall Results for sample 6 : RNA sample No. 65 Directzol

RNA Area:	54.2	RNA Integrity Number (RIN):	5.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	74 ng/μl		
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Color:	
		Result Flagging Label:	RIN: 5.70

Fragment table for sample 6 : RNA sample No. 65 Directzol

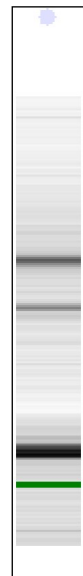
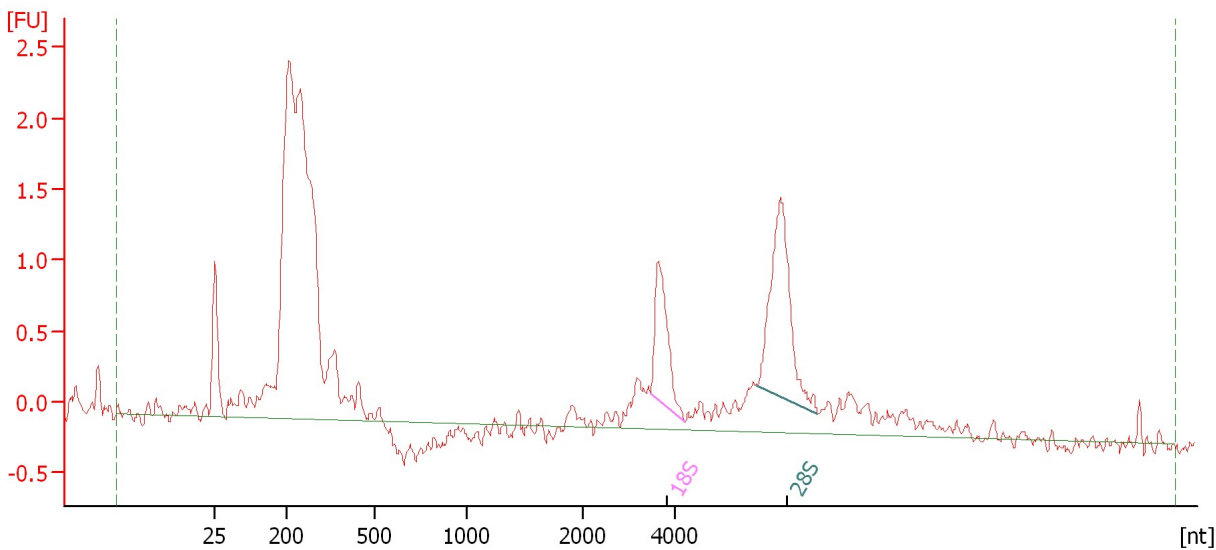
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,890	4,480	4.3	7.9
28S	5,790	6,983	3.3	6.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
 Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...

RNA sample No. 73 CZ big Directzol



Overall Results for sample 7 : RNA sample No. 73 CZ big Directzol

RNA Area:	27.3	RNA Integrity Number (RIN):	6.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	37 ng/μl		
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Color:	
		Result Flagging Label:	RIN: 6.60

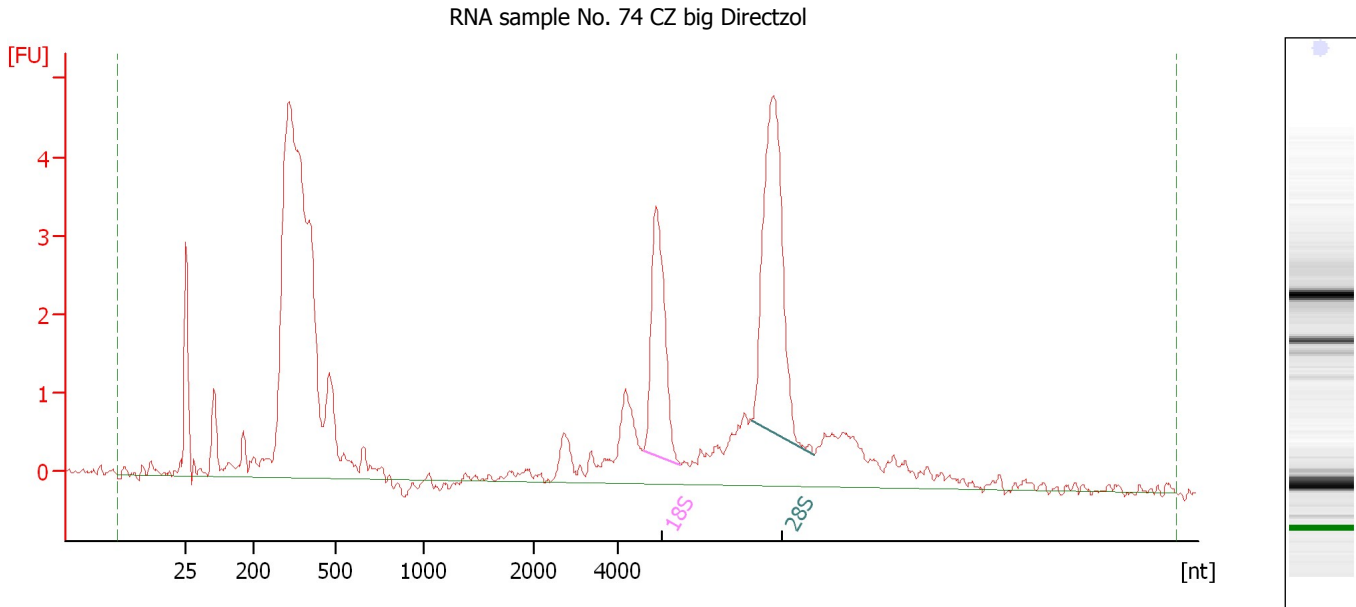
Fragment table for sample 7 : RNA sample No. 73 CZ big Directzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,467	4,219	1.5	5.5
28S	5,816	7,155	2.9	10.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
 Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RNA sample No. 74 CZ big Directzol

RNA Area:	65.0	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	88 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 7.80

Fragment table for sample 8 : RNA sample No. 74 CZ big Directzol

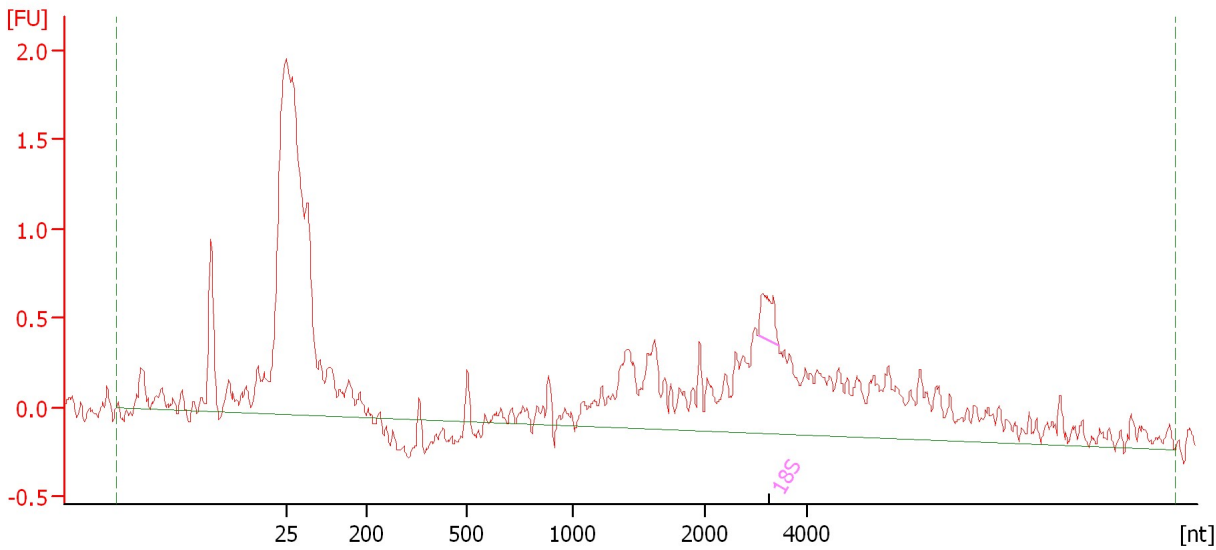
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,581	5,428	5.1	7.9
28S	7,099	8,545	9.0	13.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...

RNA sample No. 75 CZ big Directzol



Overall Results for sample 9 : RNA sample No. 75 CZ big Directzol

RNA Area: 17.3 RNA Integrity Number (RIN): 2.9 (B.02.08)
RNA Concentration: 24 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.90

Fragment table for sample 9 : RNA sample No. 75 CZ big Directzol

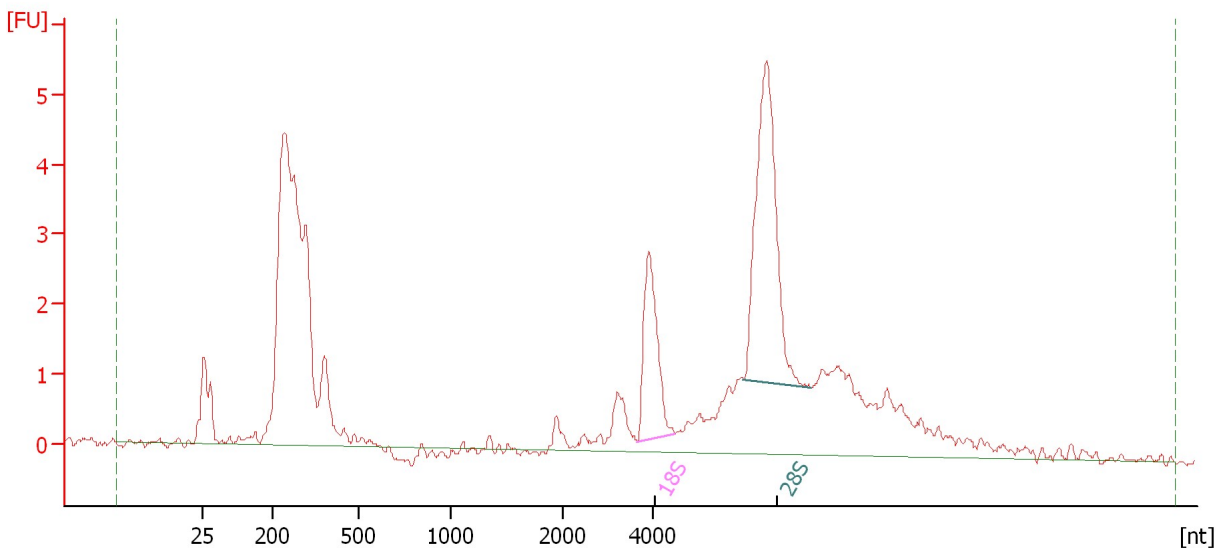
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,039	3,432	0.4	2.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
 Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...

RNA sample No. 76 CZ big Directzol



Overall Results for sample 10 : RNA sample No. 76 CZ big Directzol

RNA Area:	65.2	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	89 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 7.90

Fragment table for sample 10 : RNA sample No. 76 CZ big Directzol

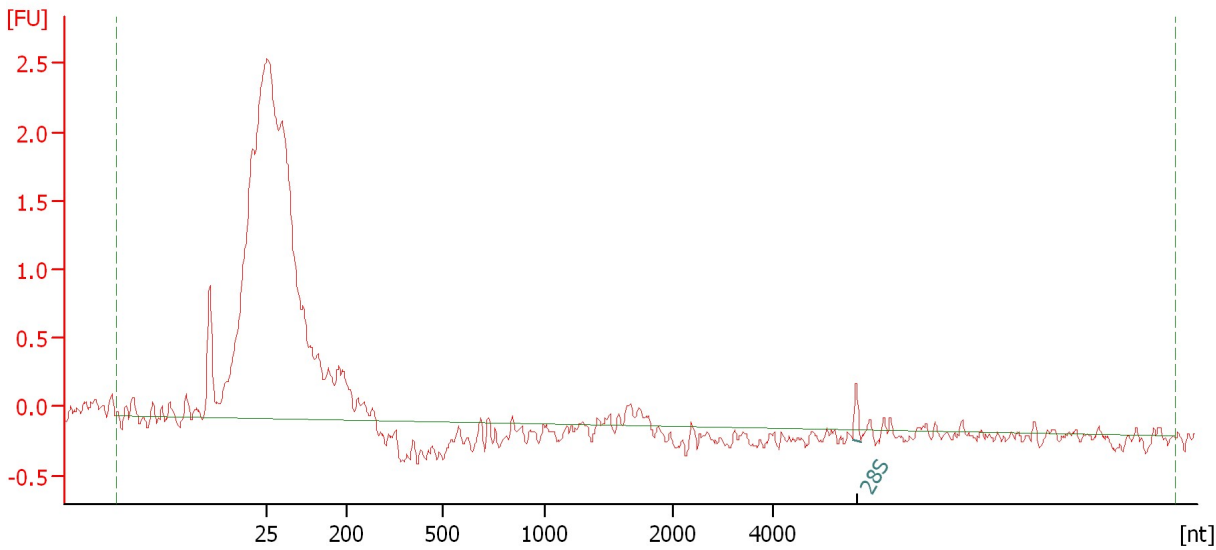
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,666	4,532	4.4	6.8
28S	6,046	7,584	10.0	15.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...

RNA sample No. 77 CZ big Directzol



Overall Results for sample 11 : RNA sample No. 77 CZ big Directzol

RNA Area: 13.2 RNA Integrity Number (RIN): 2.2 (B.02.08)
RNA Concentration: 18 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.20

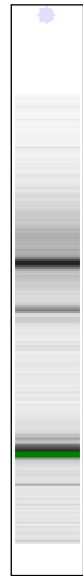
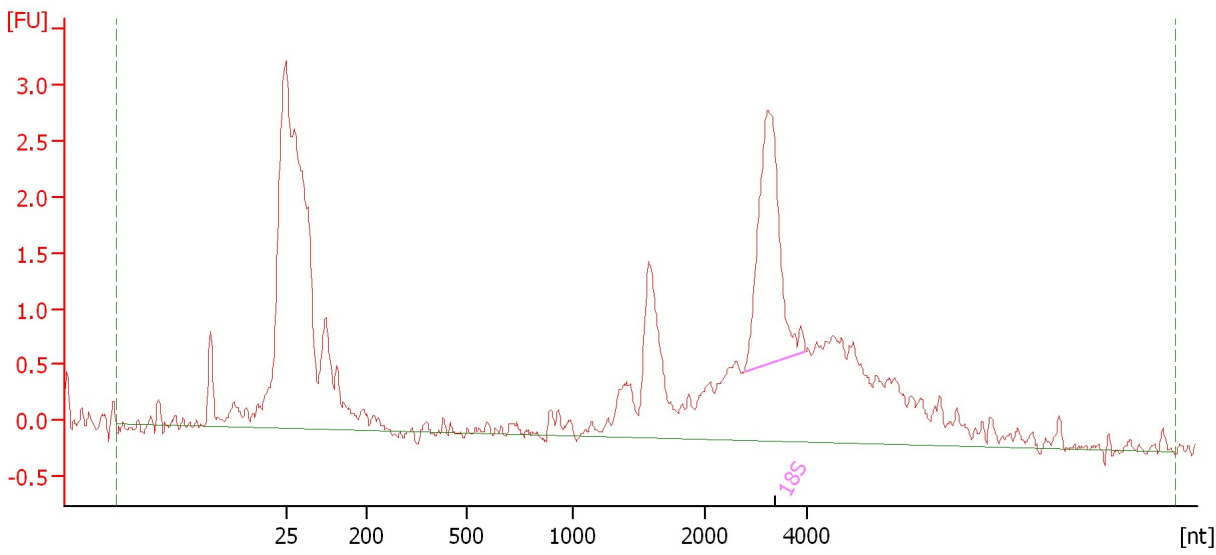
Fragment table for sample 11 : RNA sample No. 77 CZ big Directzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	5,570	5,741	0.2	1.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area:	31.7	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	43 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,770	3,948	5.2	16.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-16\2013-09-16_004.xad

Created: 9/16/2013 3:27:03 PM
Modified: 9/16/2013 3:50:53 PM

Gel Image

