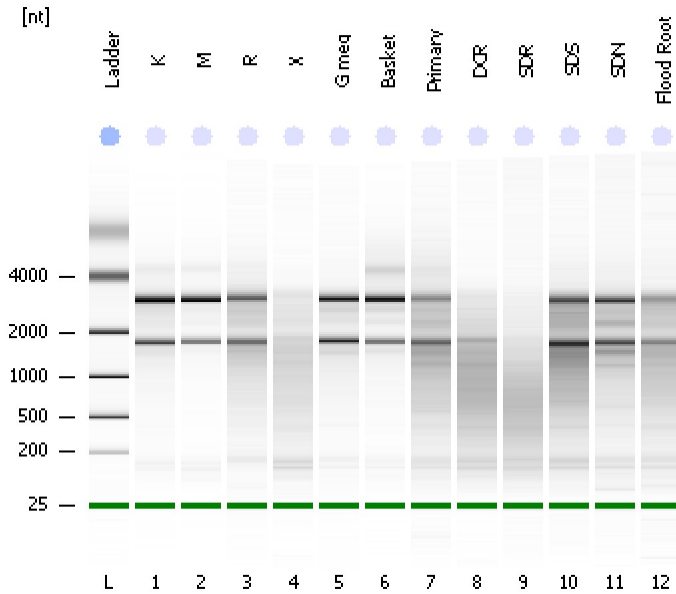


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
 Modified: 6/26/2014 11:13:19 AM

Electrophoresis File Run Summary



Instrument Information:

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

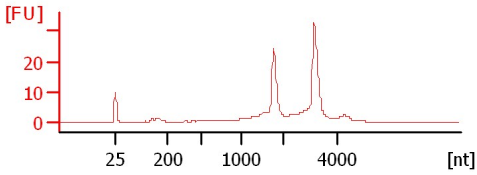
Assay Information:

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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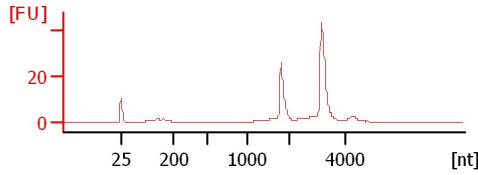
Chip Information:

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

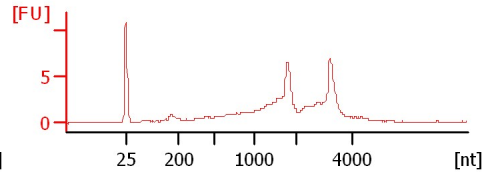
K
 RIN: 9.20



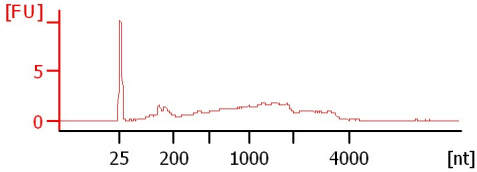
M
 RIN: 9.80



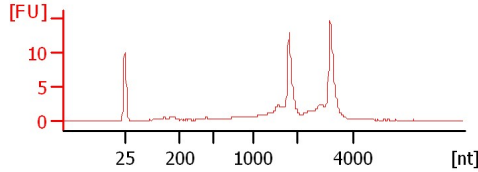
R
 RIN: 6.70



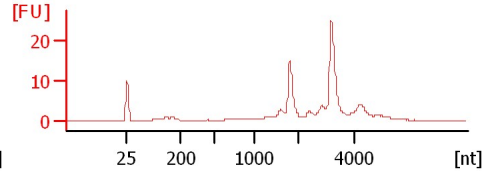
X
 RIN: 2.80



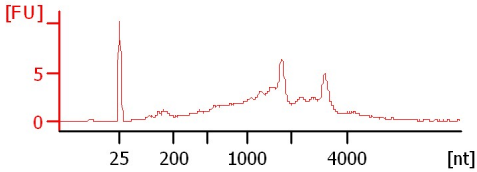
G meg
 RIN: 7.90



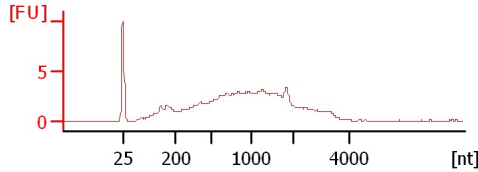
Basket
 RIN: 8.50



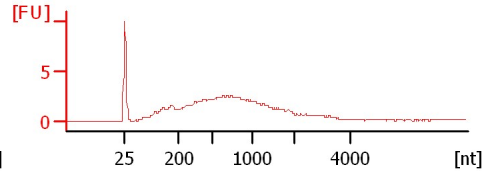
Primary
 RIN: 5



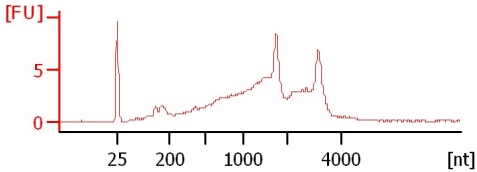
DCR
 RIN: 3.20



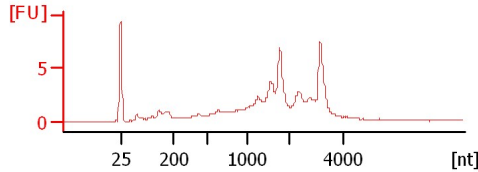
SDR
 RIN: 2.10



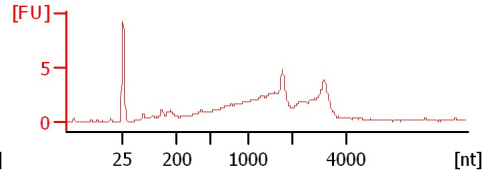
SDS
 RIN: 5.30



SDN
 RIN: 6.30



Flood Root
 RIN: 5.10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
 Modified: 6/26/2014 11:13:19 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
K		✓	RIN: 9.20	
M		✓	RIN: 9.80	
R		✓	RIN: 6.70	
X		✓	RIN: 2.80	
G meg		✓	RIN: 7.90	
Basket		✓	RIN: 8.50	
Primary		✓	RIN:5	
DCR		✓	RIN: 3.20	
SDR		✓	RIN: 2.10	
SDS		✓	RIN: 5.30	
SDN		✓	RIN: 6.30	
Flood Root		✓	RIN: 5.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

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

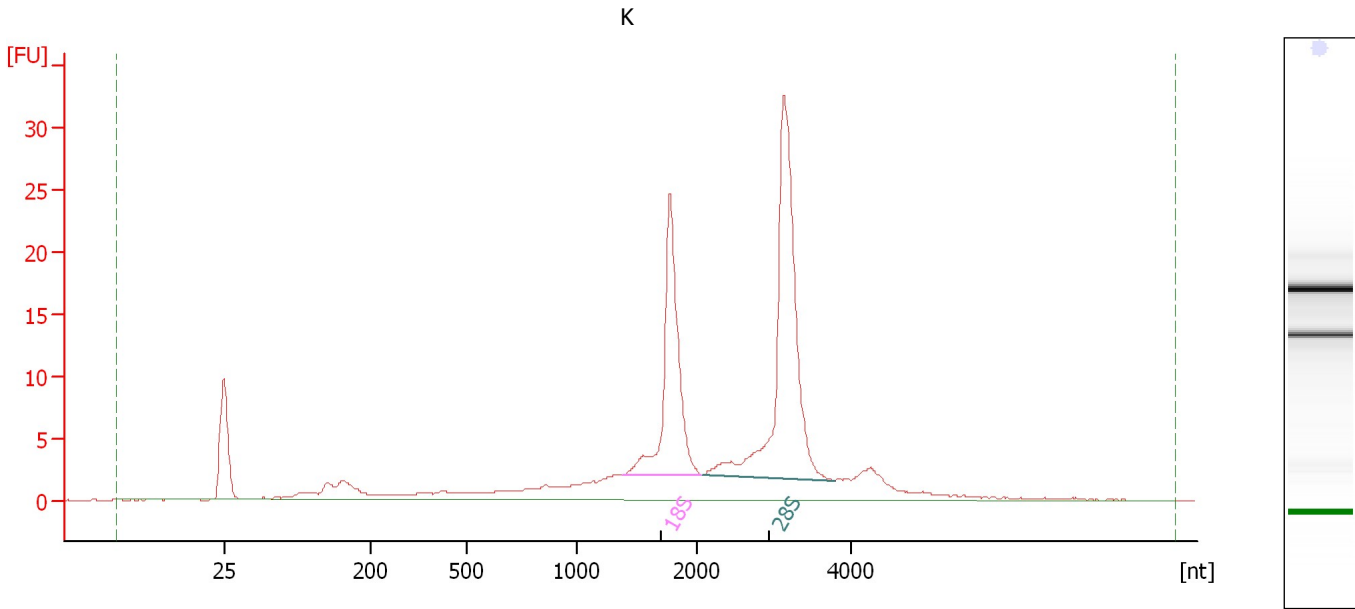
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary



Overall Results for sample 1 : K

RNA Area: 188.8 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 184 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.20

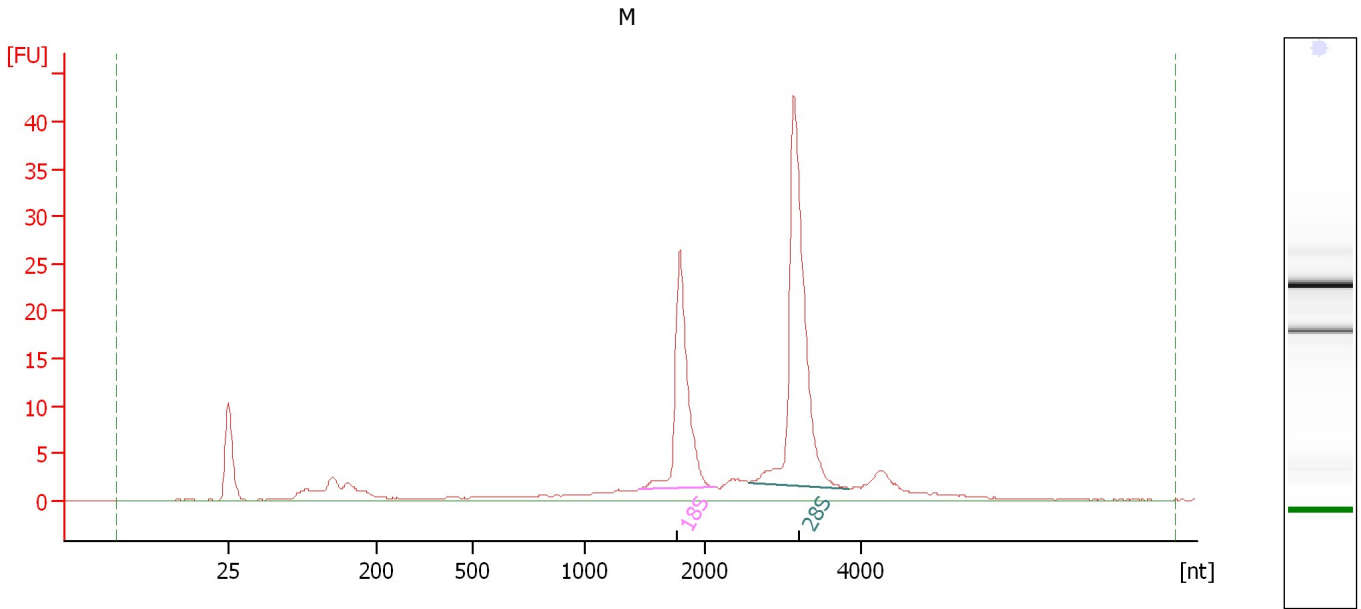
Fragment table for sample 1 : K

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,386	2,060	37.9	20.1
28S	2,088	3,794	61.1	32.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : M

RNA Area: 175.6 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 171 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.80

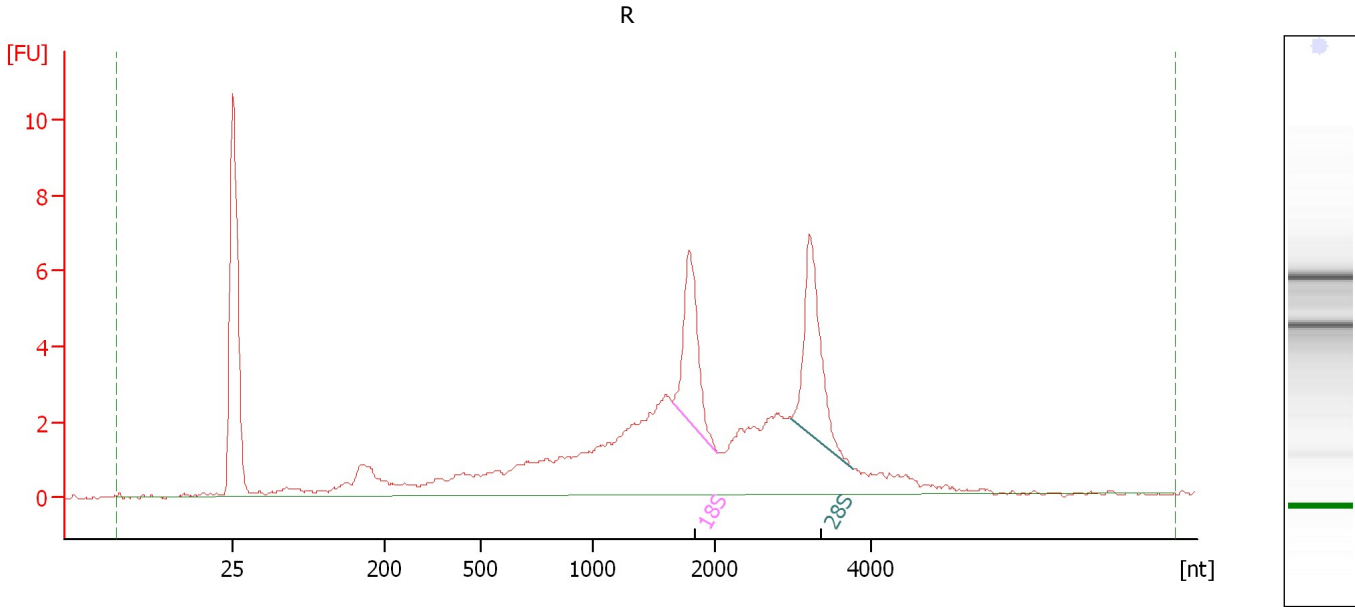
Fragment table for sample 2 : M

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,448	2,120	36.6	20.8
28S	2,561	3,854	64.8	36.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : R

RNA Area:	87.5	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	85 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 6.70

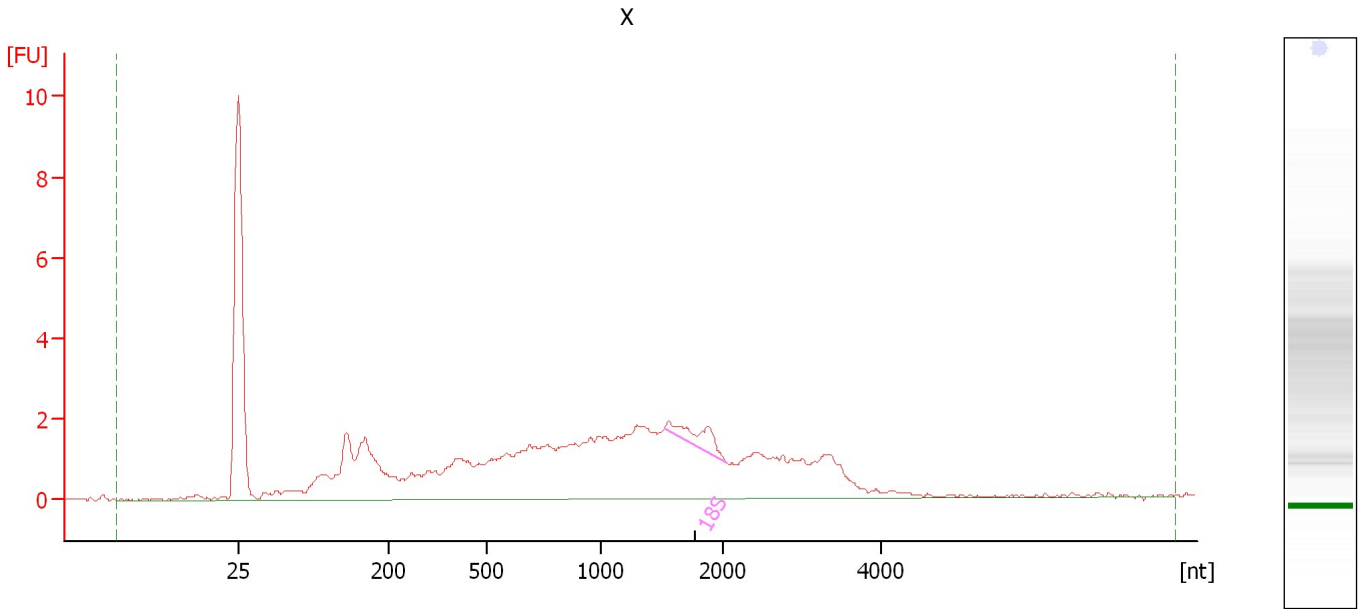
Fragment table for sample 3 : R

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	2,030	7.4	8.5
28S	2,970	3,747	9.0	10.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : X

RNA Area:	72.5	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	71 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

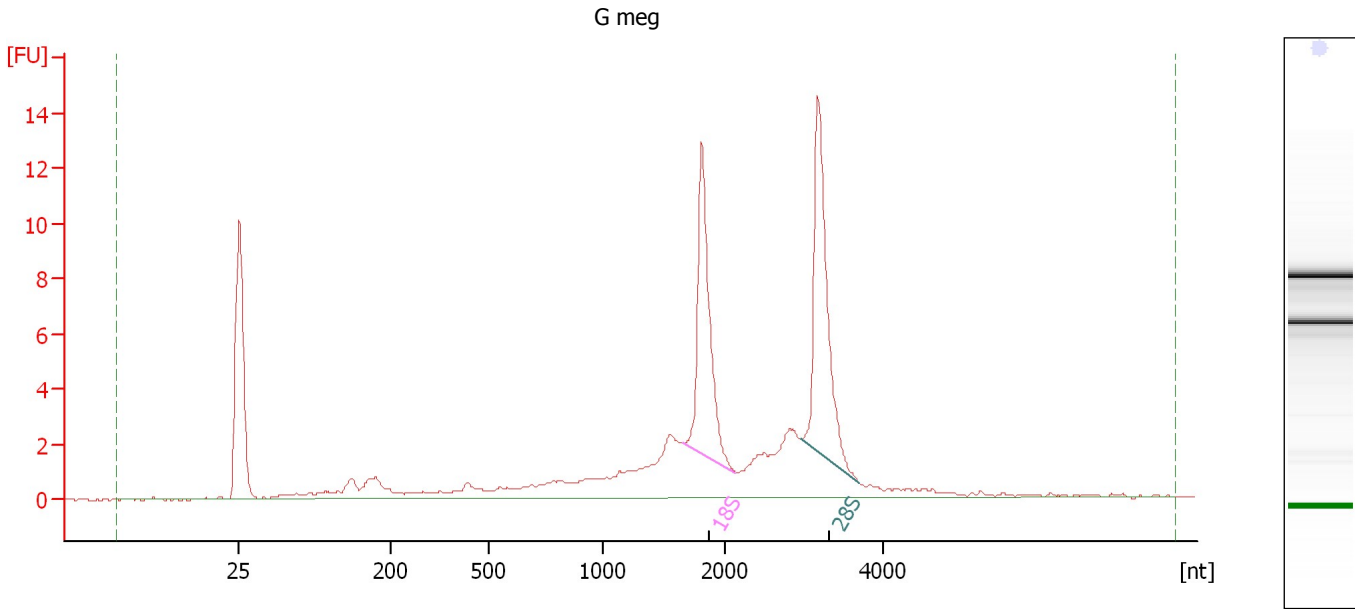
Fragment table for sample 4 : X

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,518	2,049	1.9	2.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : G meg

RNA Area:	88.1	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	86 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.90

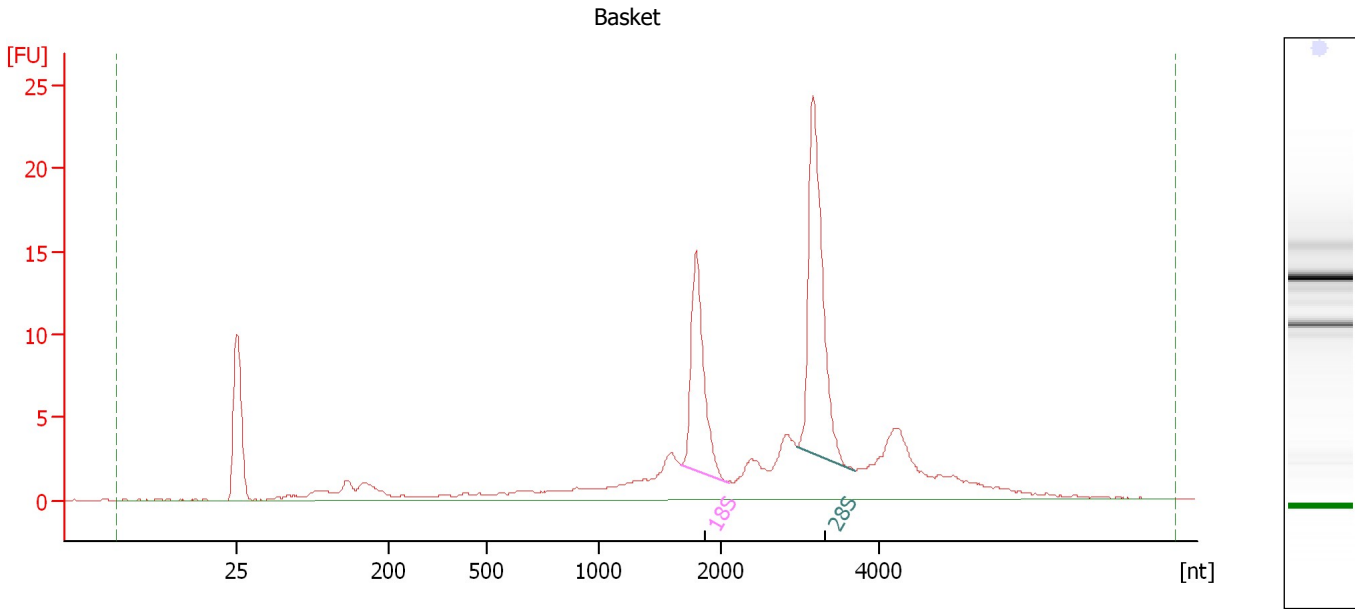
Fragment table for sample 5 : G meg

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,658	2,131	15.2	17.2
28S	2,967	3,682	16.8	19.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Basket

RNA Area:	139.6	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	136 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.50

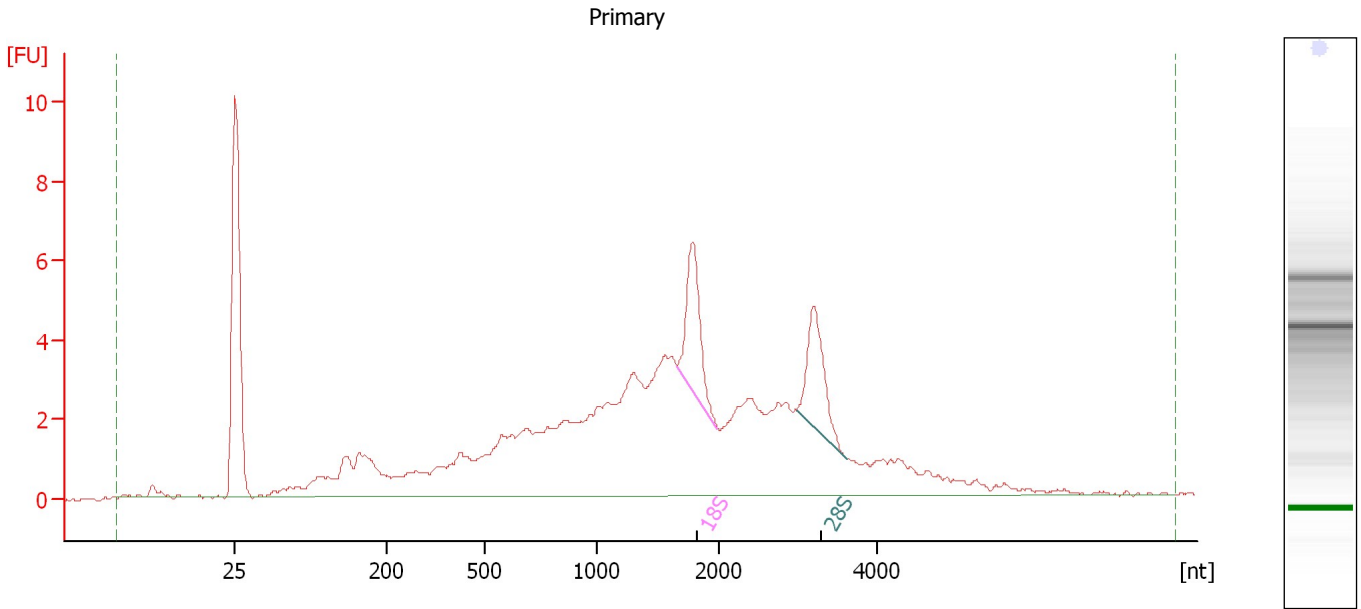
Fragment table for sample 6 : Basket

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	2,088	18.9	13.5
28S	2,968	3,699	31.4	22.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Primary

RNA Area: 119.0 RNA Integrity Number (RIN): 5 (B.02.08)
RNA Concentration: 116 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN:5

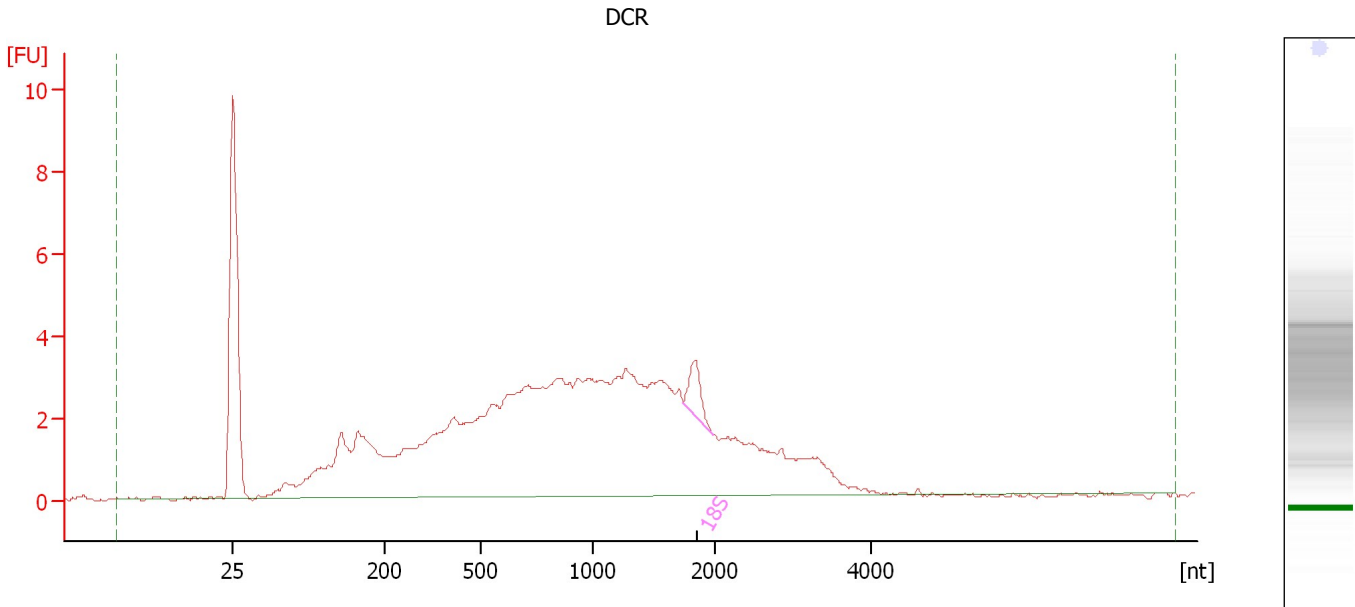
Fragment table for sample 7 : Primary

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	1,986	5.8	4.8
28S	2,982	3,620	5.3	4.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DCR

RNA Area:	114.6	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	112 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.20

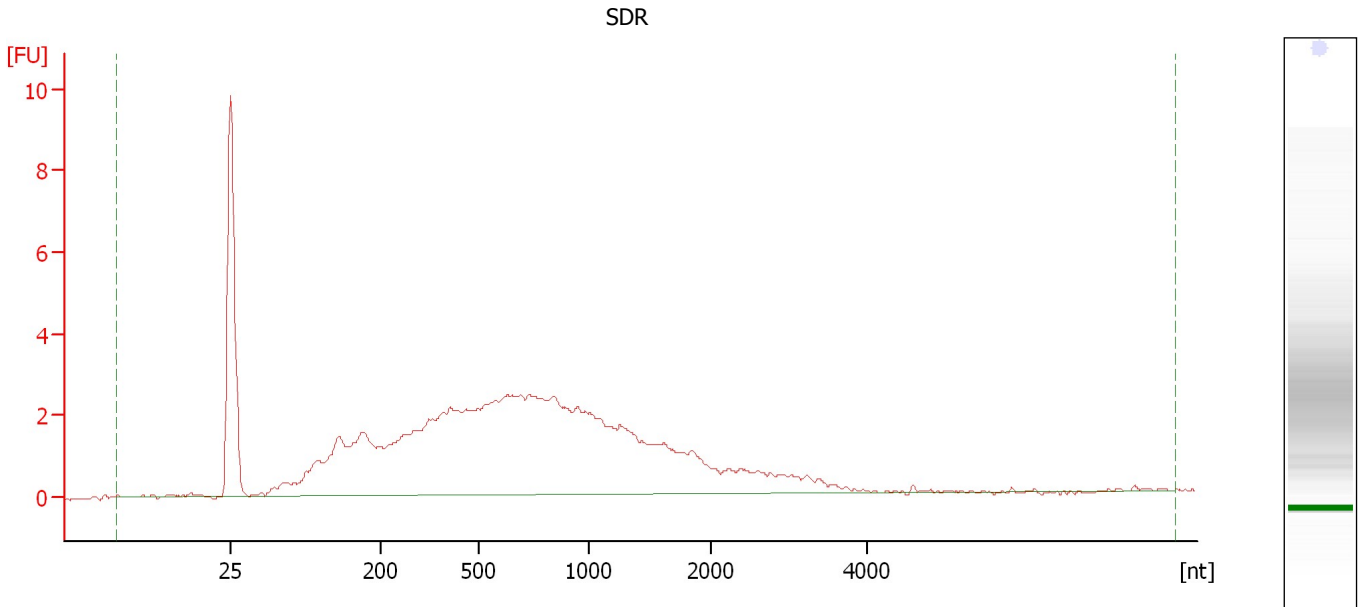
Fragment table for sample 8 : DCR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,739	1,975	1.8	1.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



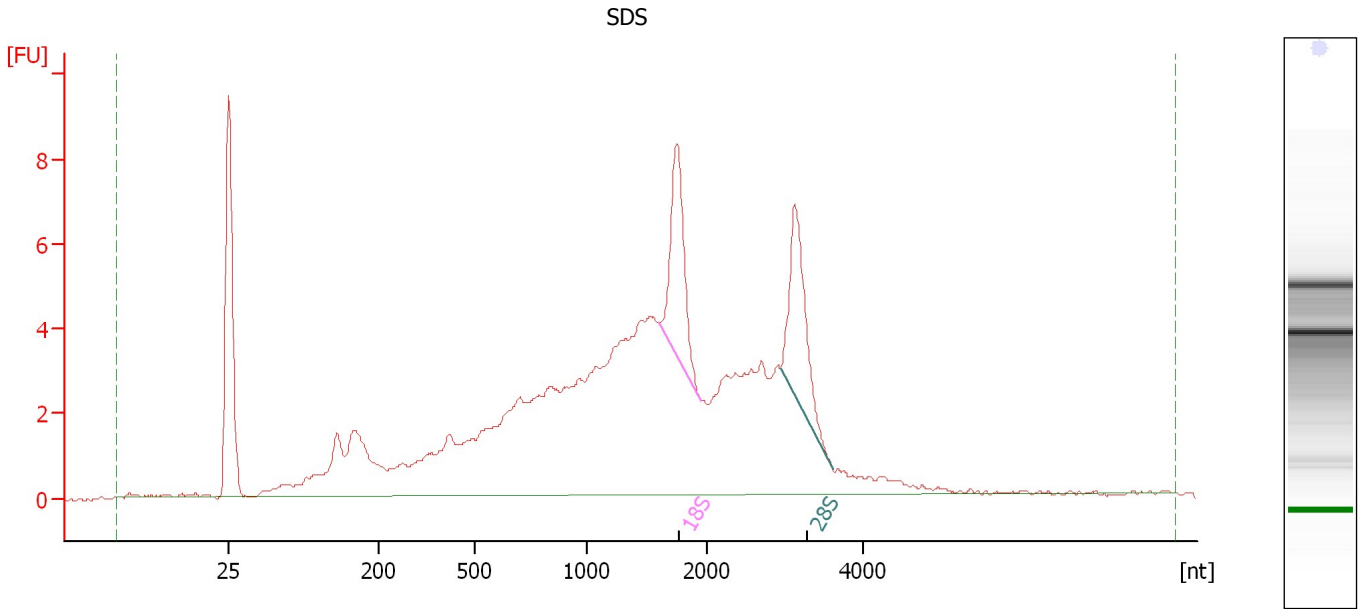
Overall Results for sample 9 : SDR

RNA Area:	89.7	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	88 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
 Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SDS

RNA Area:	145.5	RNA Integrity Number (RIN):	5.3 (B.02.08)
RNA Concentration:	142 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 5.30

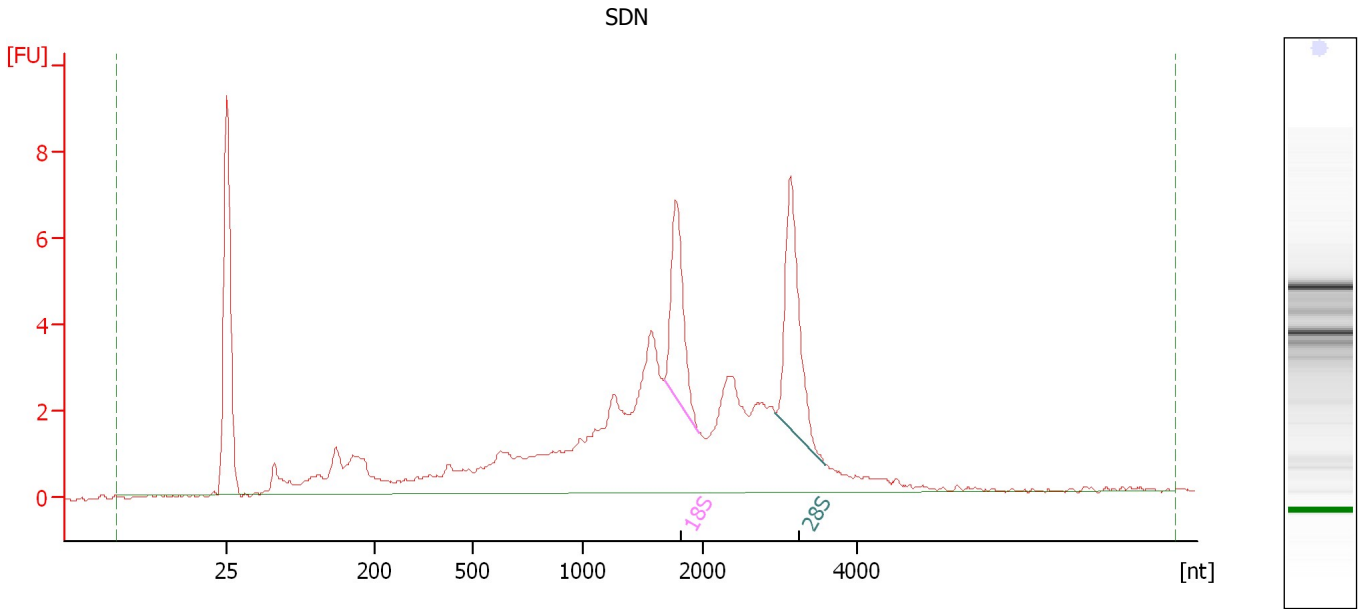
Fragment table for sample 10 : SDS

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,945	7.8	5.4
28S	2,945	3,618	7.8	5.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SDN

RNA Area:	90.0	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	88 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 6.30

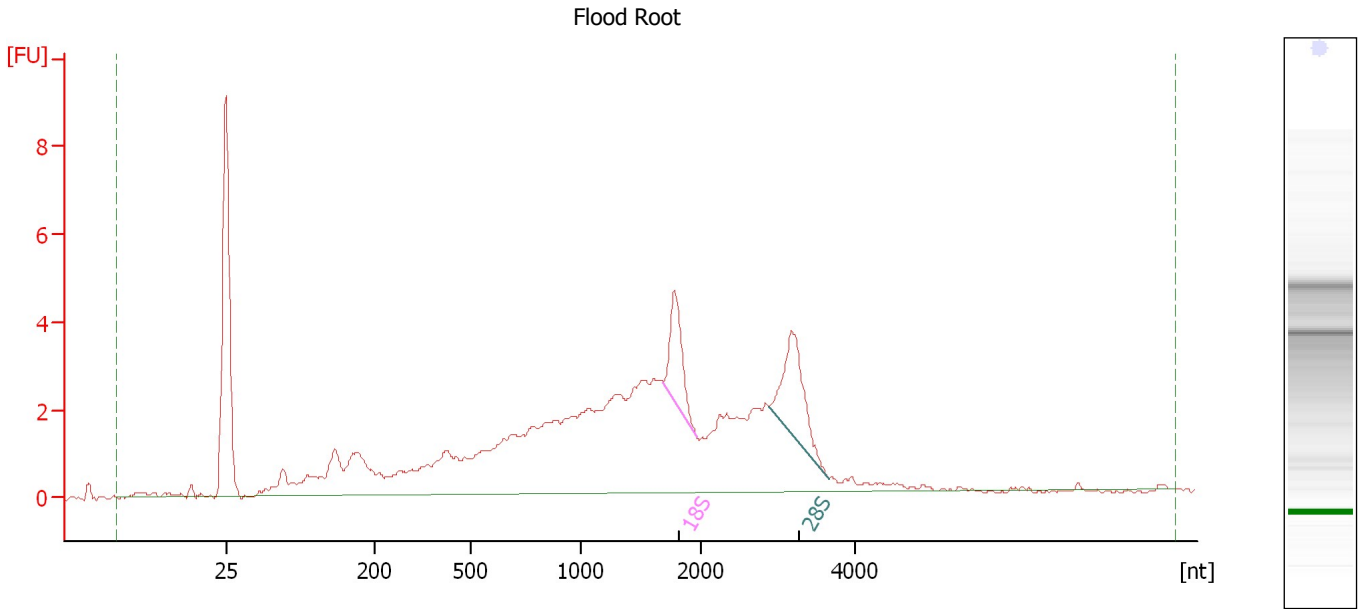
Fragment table for sample 11 : SDN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	1,961	6.5	7.2
28S	2,933	3,581	8.5	9.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Flood Root

RNA Area: 91.1 RNA Integrity Number (RIN): 5.1 (B.02.08)
RNA Concentration: 89 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 5.10

Fragment table for sample 12 : Flood Root

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	1,960	3.5	3.9
28S	2,878	3,652	5.1	5.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-26\2014-06-26_003.xad

Created: 6/26/2014 10:49:28 AM
Modified: 6/26/2014 11:13:19 AM

Gel Image

