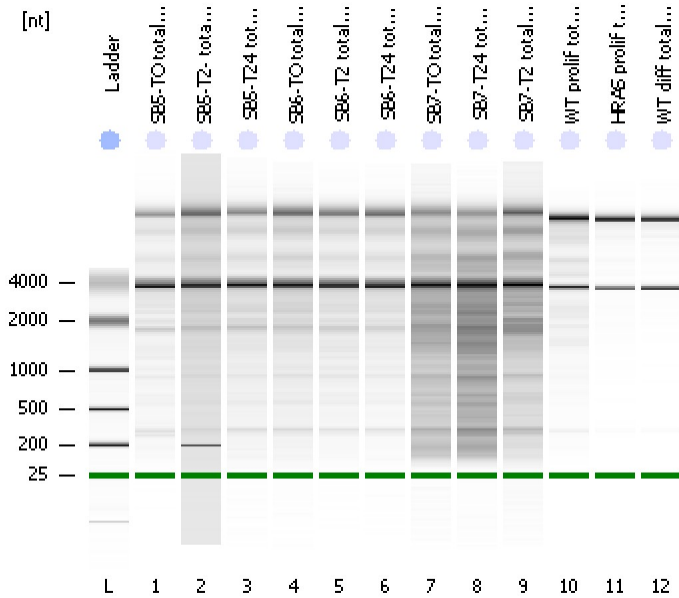


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
 Modified: 5/15/2014 10:37:05 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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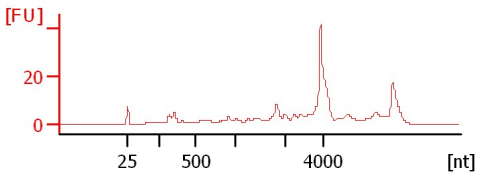
Chip Information:

Chip Lot #:

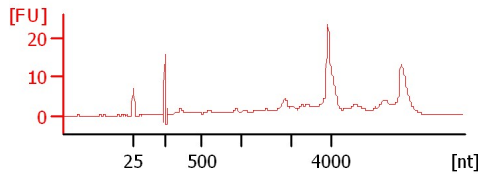
Reagent Kit Lot #:

Chip Comments:

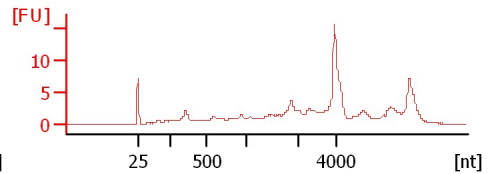
SB5-T0 total RNA
 RIN: 6.90



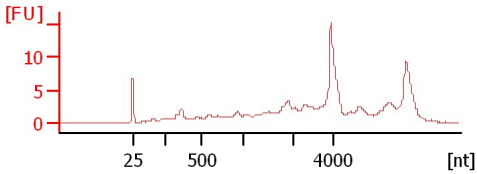
SB5-T2- total RNA
 RIN: 7.30



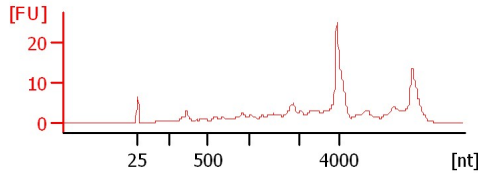
SB5-T24 total RNA
 RIN: 6.70



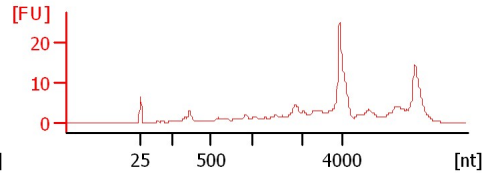
SB6-T0 total RNA
 RIN: 6.70



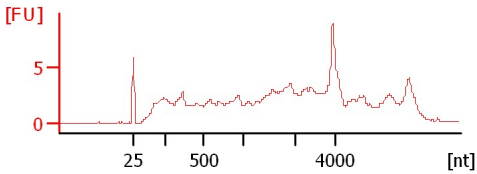
SB6-T2 total RNA
 RIN: 6.90



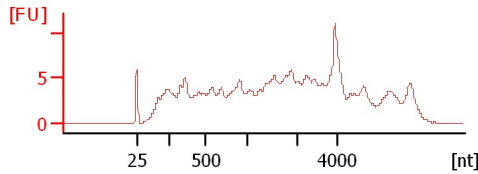
SB6-T24 total RNA
 RIN: 7.10



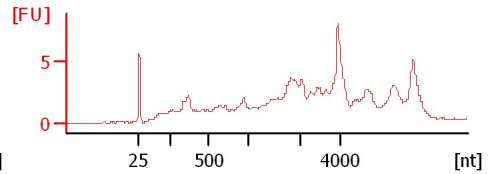
SB7-T0 total RNA
 RIN: 5.20



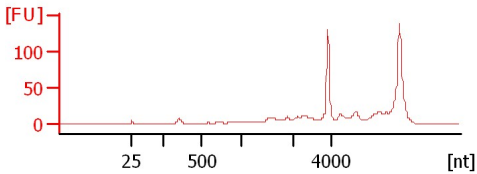
SB7-T24 total RNA
 RIN: 4.20



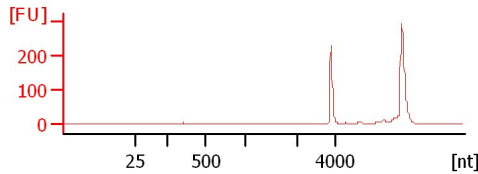
SB7-T2 total RNA
 RIN: 3.90



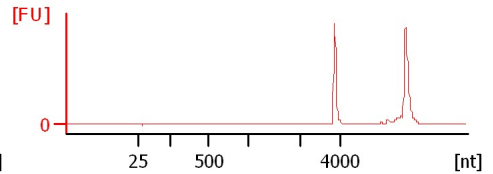
WT prolifer total RNA
 RIN: 7.60



HRAS prolifer total RNA
 RIN: 9.90



WT diff total RNA
 RIN: 9.80



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
 Modified: 5/15/2014 10:37:05 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
SB5-TO total RNA		✓	RIN: 6.90	
SB5-T2- total RNA		✓	RIN: 7.30	
SB5-T24 total RNA		✓	RIN: 6.70	
SB6-TO total RNA		✓	RIN: 6.70	
SB6-T2 total RNA		✓	RIN: 6.90	
SB6-T24 total RNA		✓	RIN: 7.10	
SB7-TO total RNA		✓	RIN: 5.20	
SB7-T24 total RNA		✓	RIN: 4.20	
SB7-T2 total RNA		✓	RIN: 3.90	
WT prolifer total RNA		✓	RIN: 7.60	
HRAS prolifer total RNA		✓	RIN: 9.90	
WT diff total RNA		✓	RIN: 9.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 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

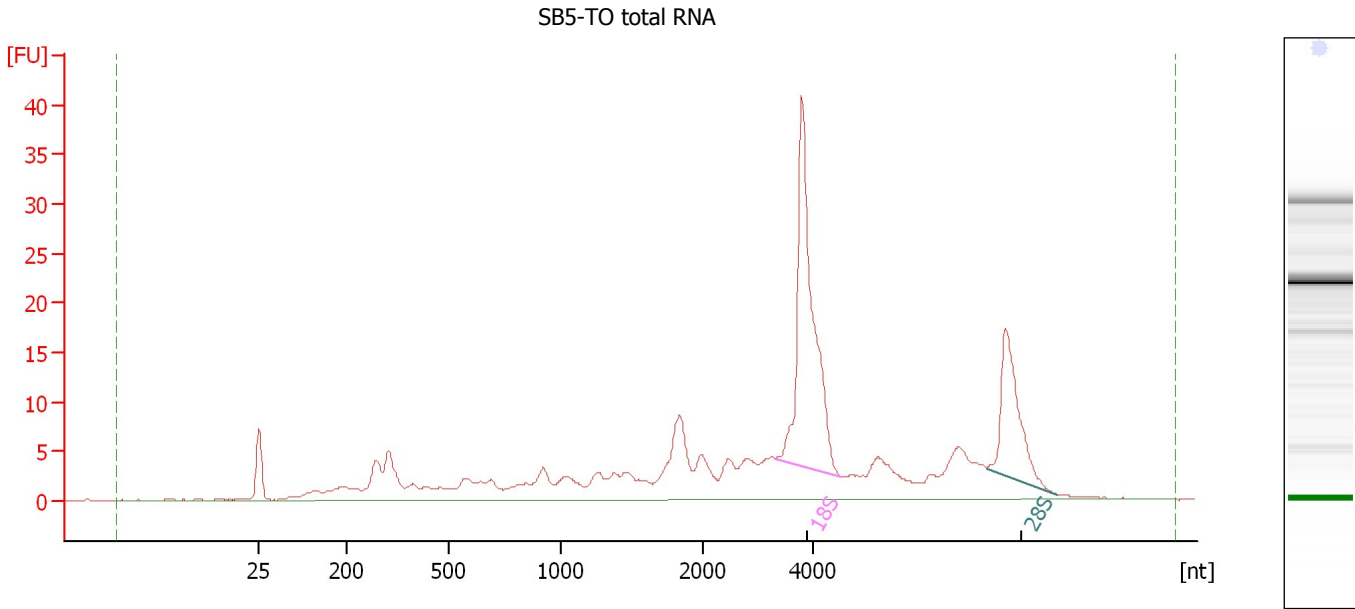
Ladder

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\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary



Overall Results for sample 1 : SB5-TO total RNA

RNA Area:	275.8	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	328 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 6.90

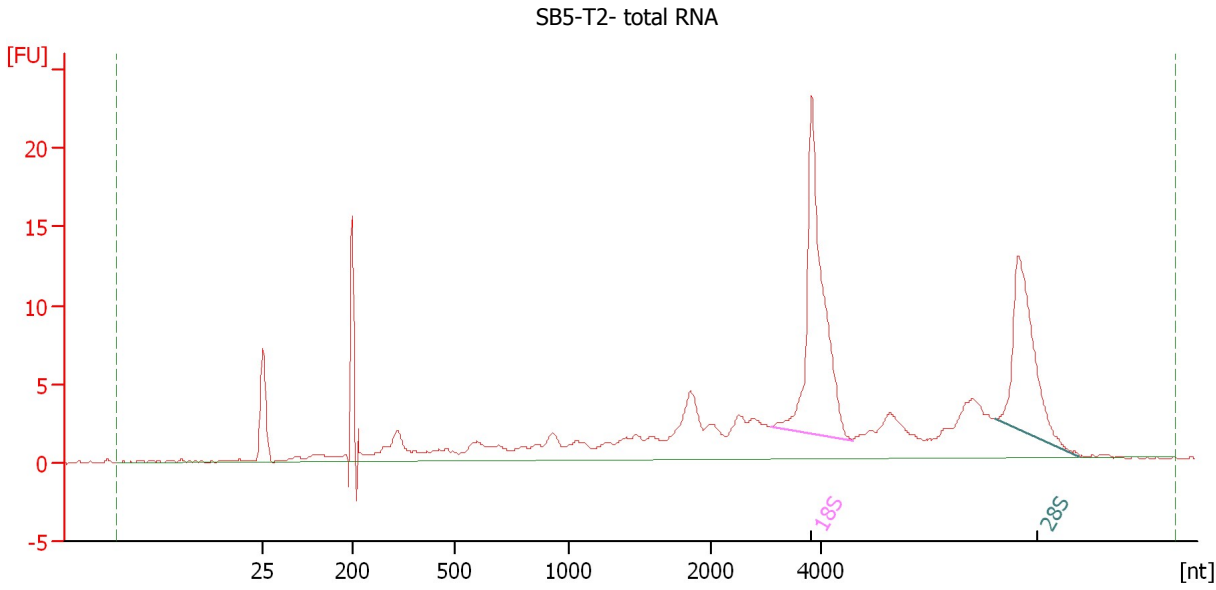
Fragment table for sample 1 : SB5-TO total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,325	4,534	58.0	21.0
28S	7,185	8,452	22.6	8.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SB5-T2- total RNA

RNA Area: 174.7 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 208 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 7.30

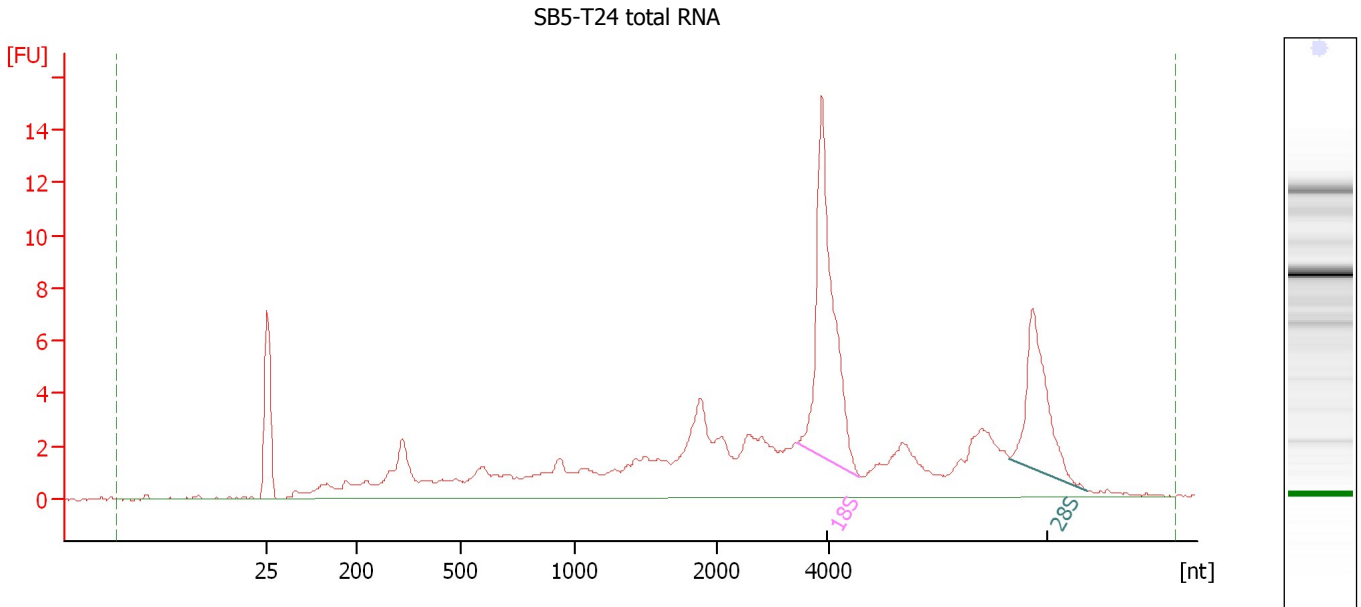
Fragment table for sample 2 : SB5-T2- total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,099	4,569	34.2	19.6
28S	7,142	8,690	20.2	11.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SB5-T24 total RNA

RNA Area: 131.9 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 157 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN: 6.70

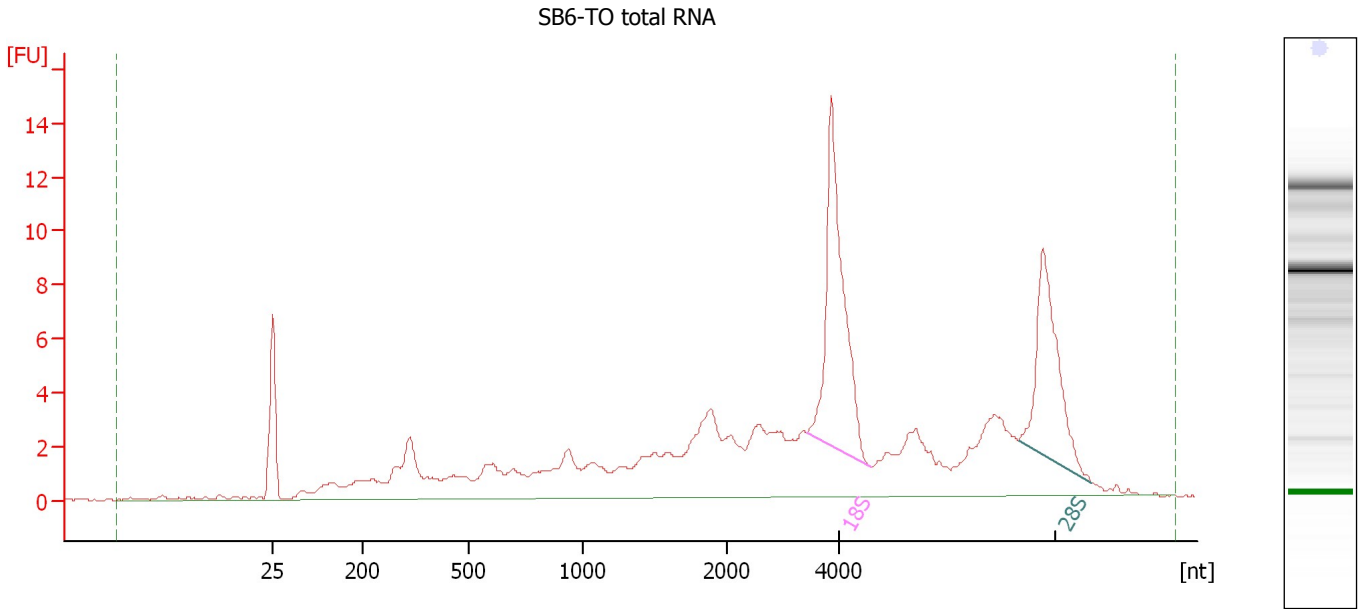
Fragment table for sample 3 : SB5-T24 total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,433	4,546	21.9	16.6
28S	7,234	8,617	10.7	8.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SB6-TO total RNA

RNA Area: 151.1 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 180 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 6.70

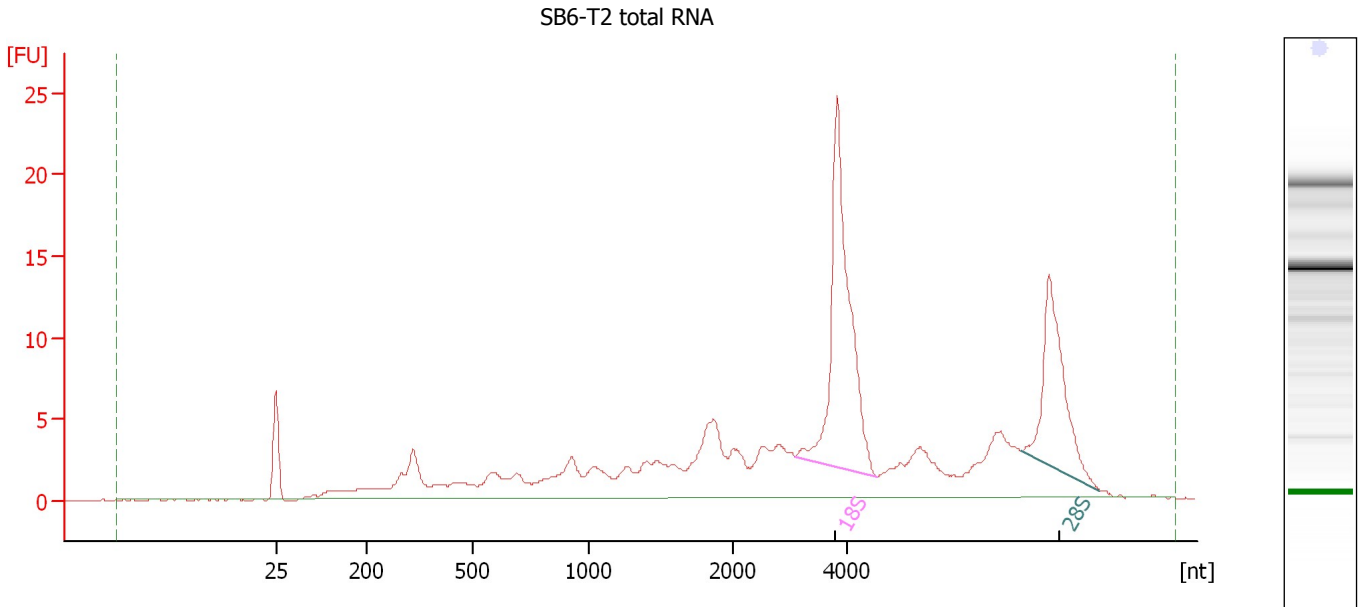
Fragment table for sample 4 : SB6-TO total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,401	4,542	21.7	14.4
28S	7,186	8,480	13.8	9.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SB6-T2 total RNA

RNA Area:	199.7	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	237 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.90

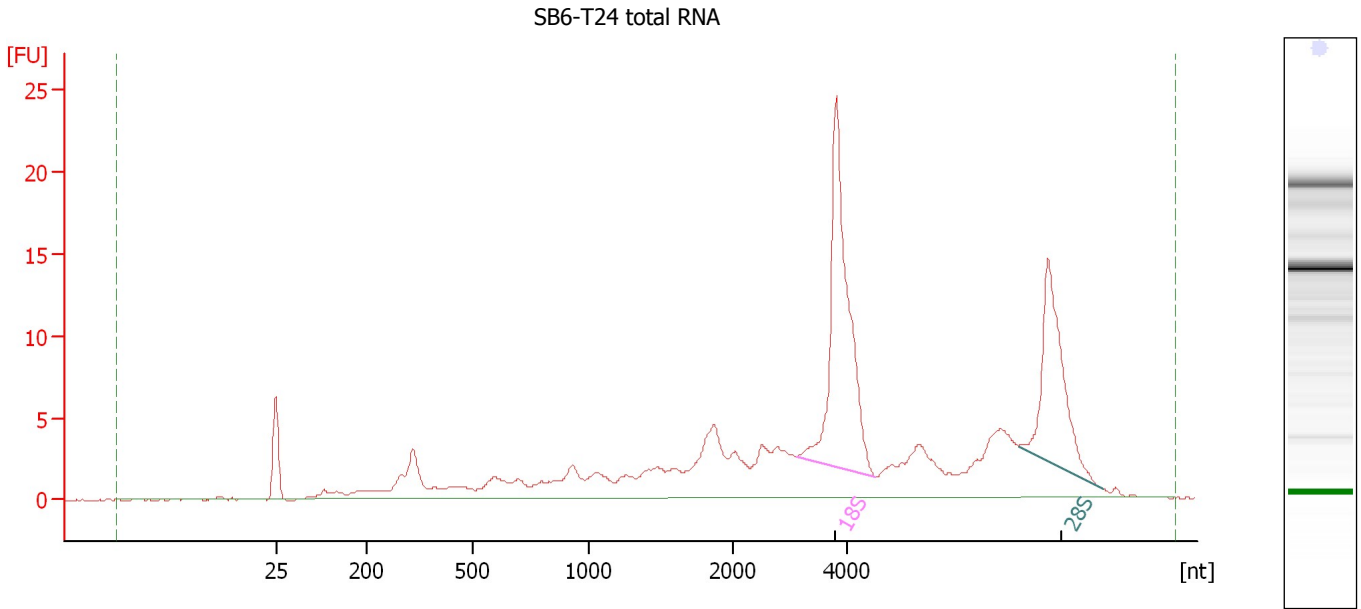
Fragment table for sample 5 : SB6-T2 total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,102	4,540	39.6	19.8
28S	7,093	8,493	20.3	10.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
 Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SB6-T24 total RNA

RNA Area:	189.9	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	226 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 7.10

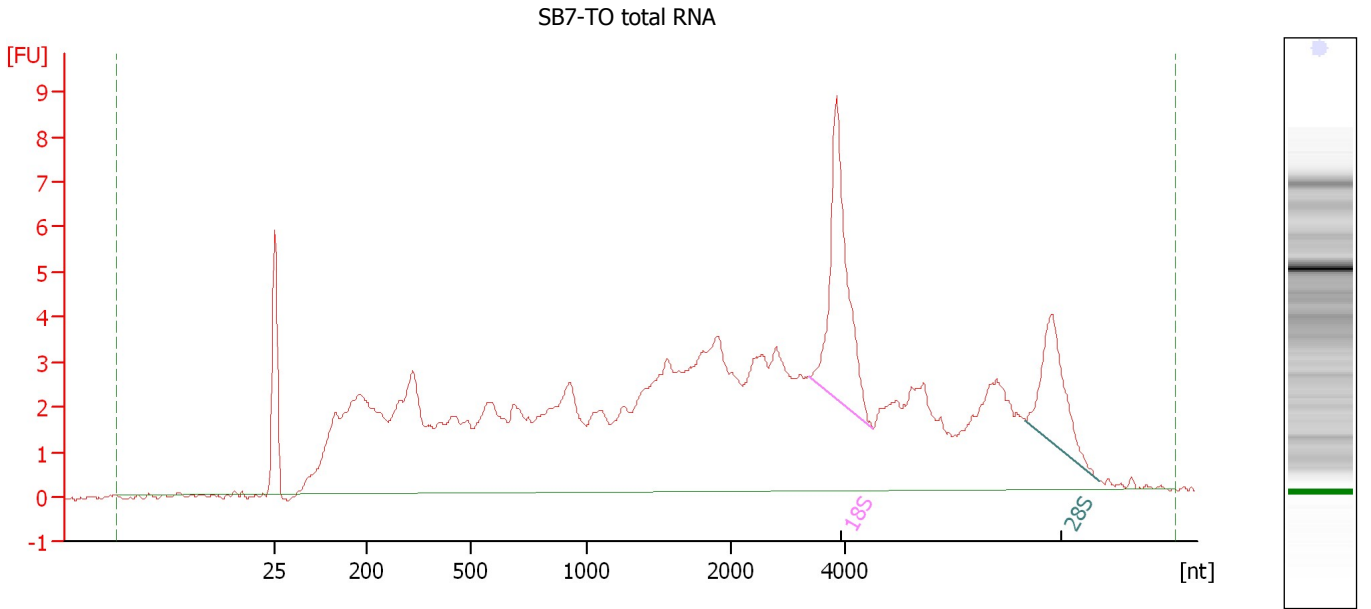
Fragment table for sample 6 : SB6-T24 total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,121	4,521	38.6	20.3
28S	7,056	8,550	21.4	11.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SB7-TO total RNA

RNA Area: 176.3 RNA Integrity Number (RIN): 5.2 (B.02.08)
RNA Concentration: 209 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN: 5.20

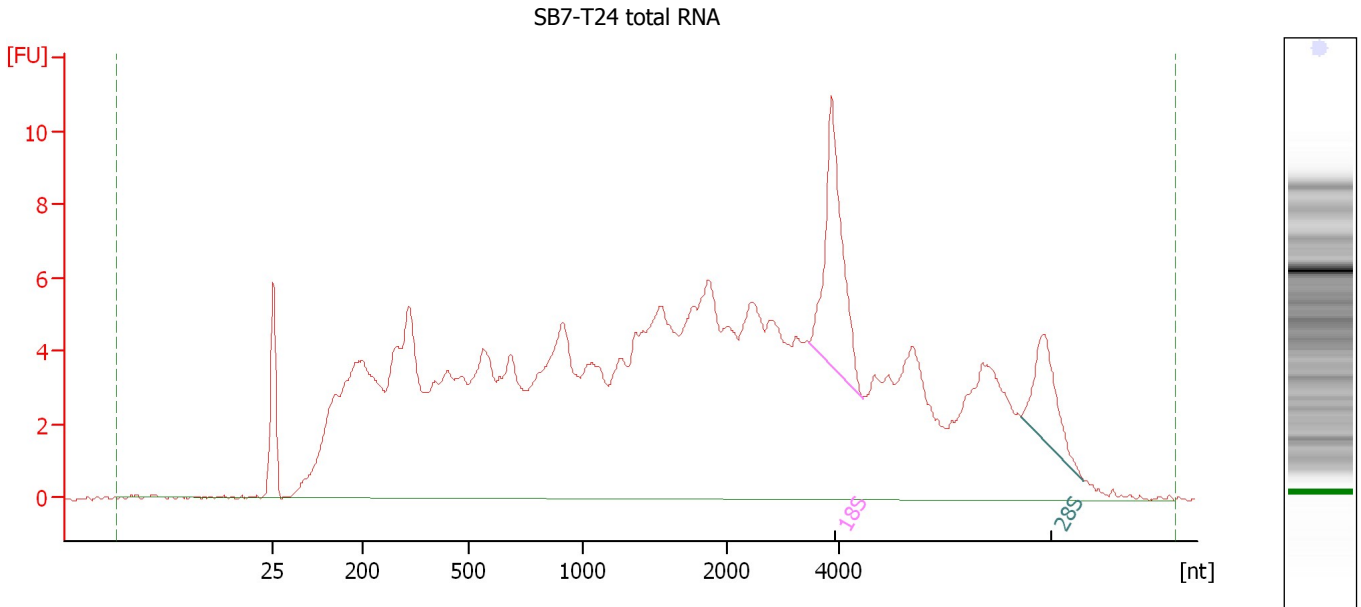
Fragment table for sample 7 : SB7-TO total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,385	4,503	11.0	6.2
28S	7,213	8,520	5.6	3.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SB7-T24 total RNA

RNA Area: 306.9 RNA Integrity Number (RIN): 4.2 (B.02.08)
RNA Concentration: 365 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 4.20

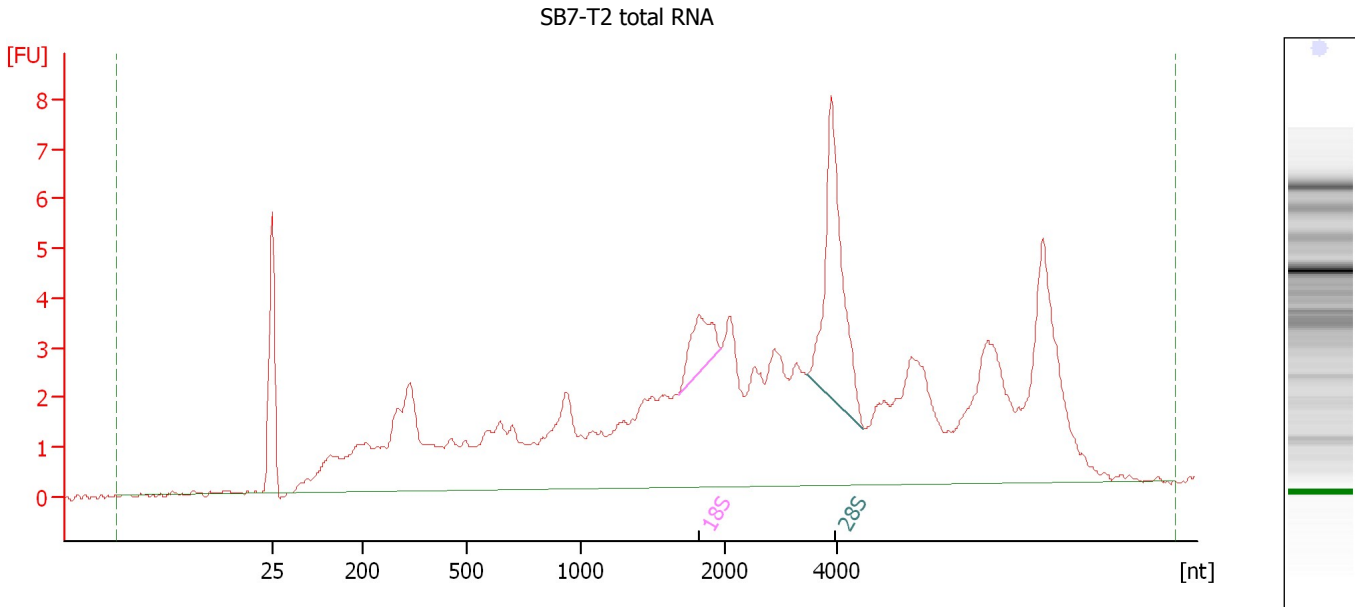
Fragment table for sample 8 : SB7-T24 total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,439	4,409	12.5	4.1
28S	7,243	8,347	5.3	1.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : SB7-T2 total RNA

RNA Area:	139.7	RNA Integrity Number (RIN):	3.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	166 ng/μl		
rRNA Ratio [28s / 18s]:	3.7	Result Flagging Color:	
		Result Flagging Label:	RIN: 3.90

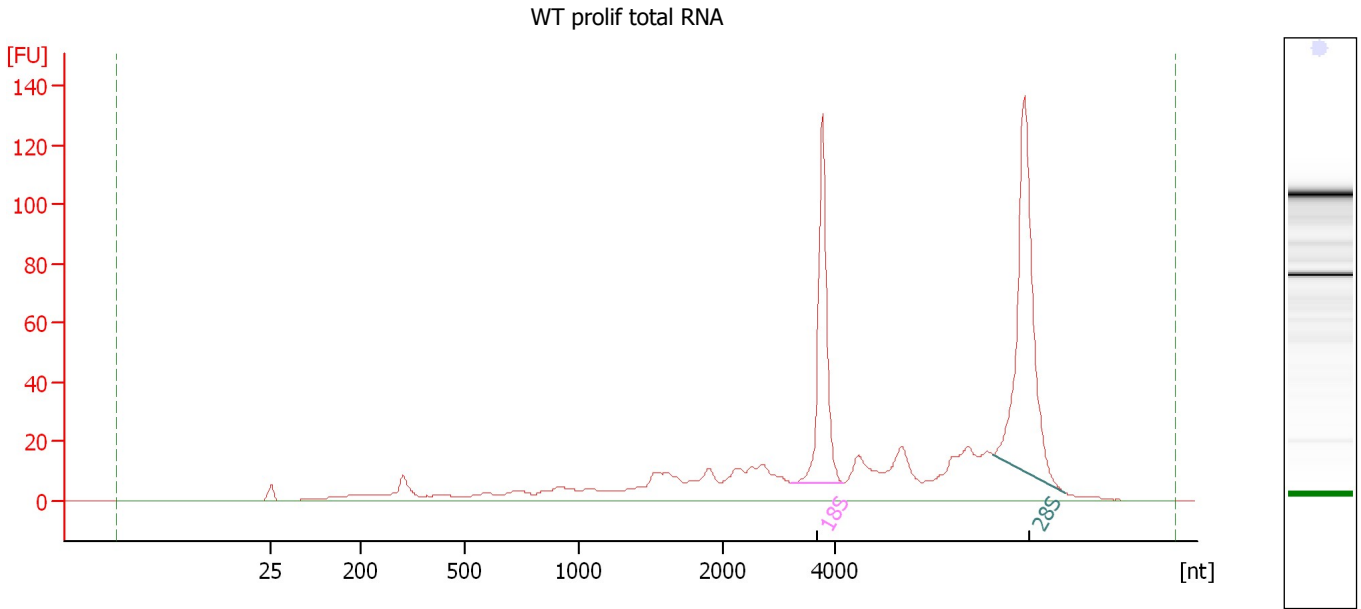
Fragment table for sample 9 : SB7-T2 total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	1,966	2.8	2.0
28S	3,438	4,467	10.3	7.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WT prolifer total RNA

RNA Area:	743.1	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	883 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.60

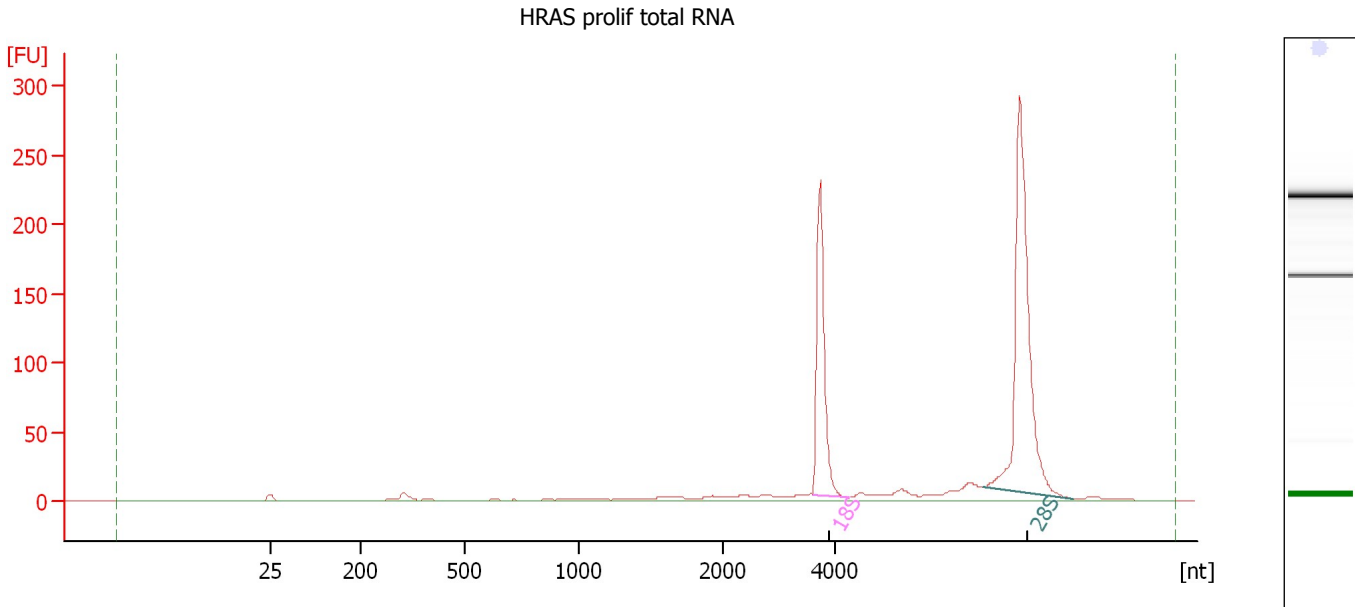
Fragment table for sample 10 : WT prolifer total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,207	4,124	107.5	14.5
28S	6,816	8,095	166.8	22.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HRAS proliferating total RNA

RNA Area: 701.7 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 834 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.90

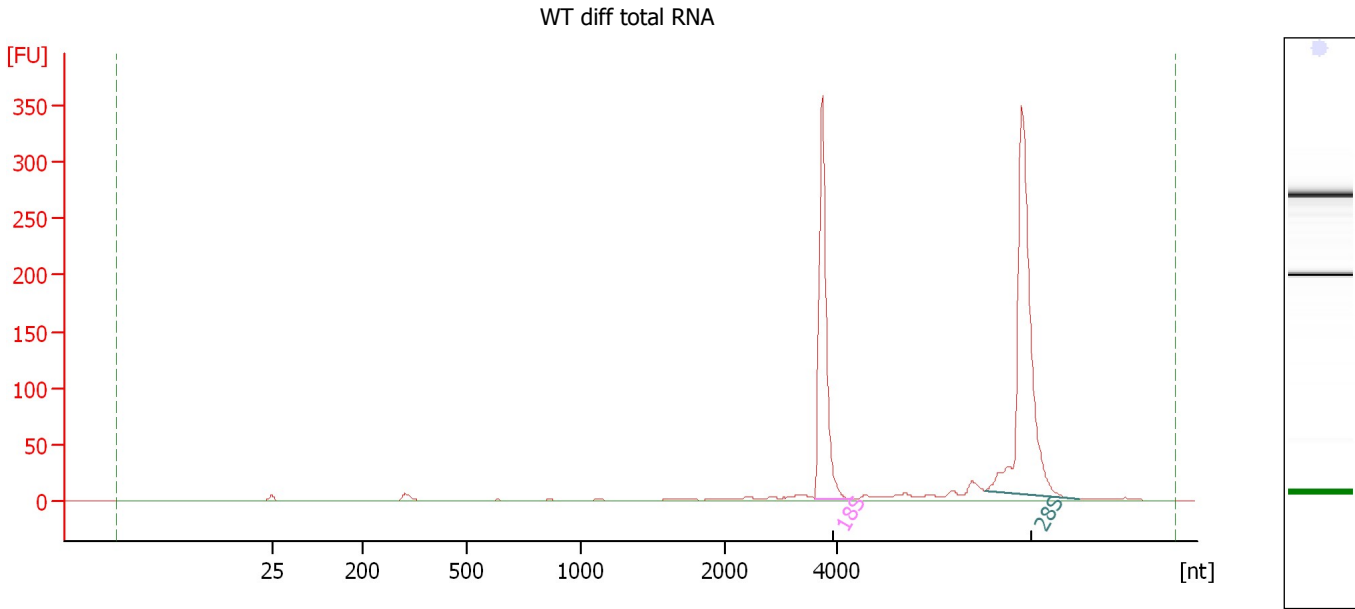
Fragment table for sample 11 : HRAS proliferating total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,589	4,219	165.7	23.6
28S	6,625	8,229	322.2	45.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : WT diff total RNA

RNA Area: 823.8 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 979 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.80

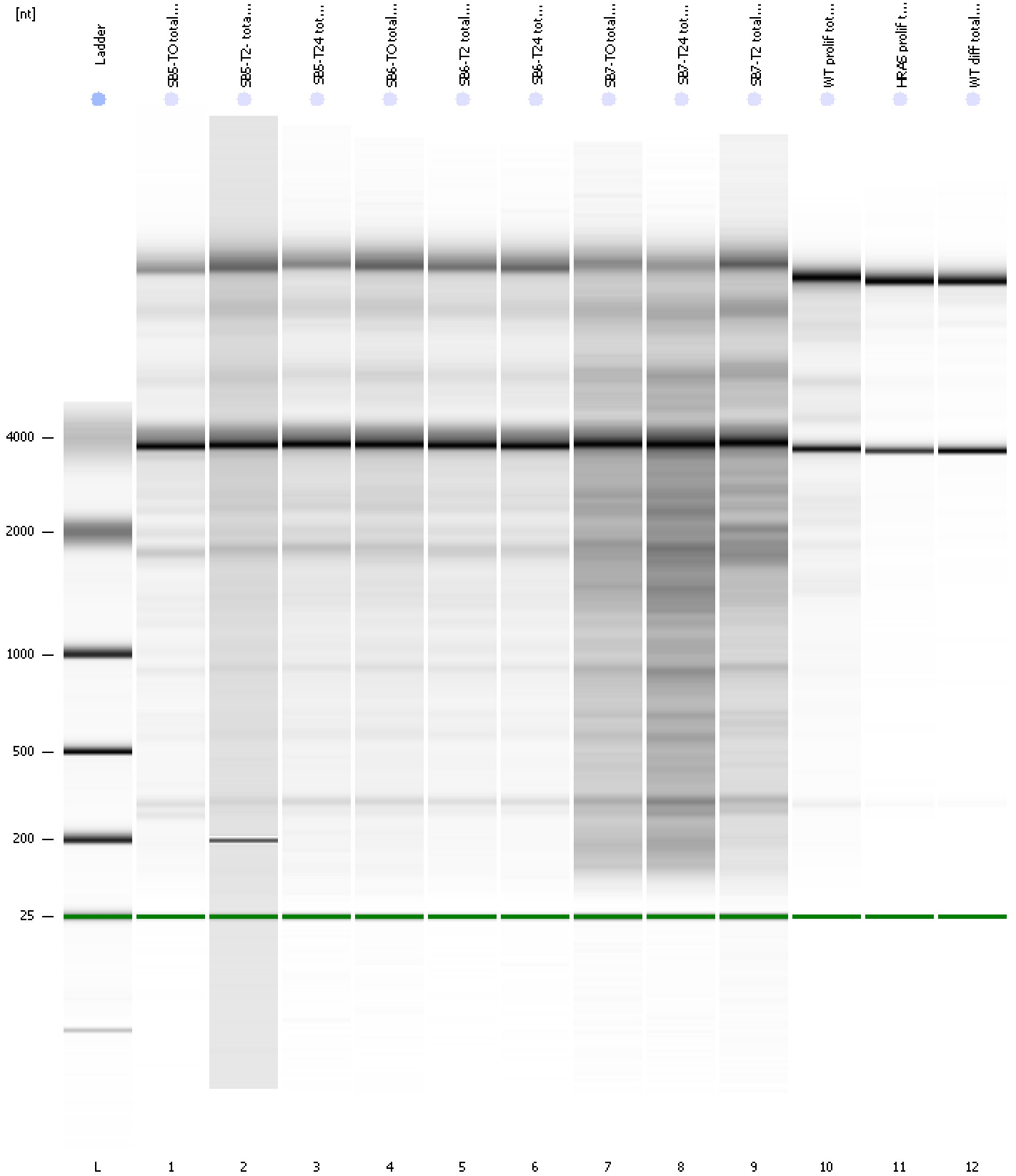
Fragment table for sample 12 : WT diff total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,590	4,276	261.0	31.7
28S	6,620	8,297	379.6	46.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Gel Image

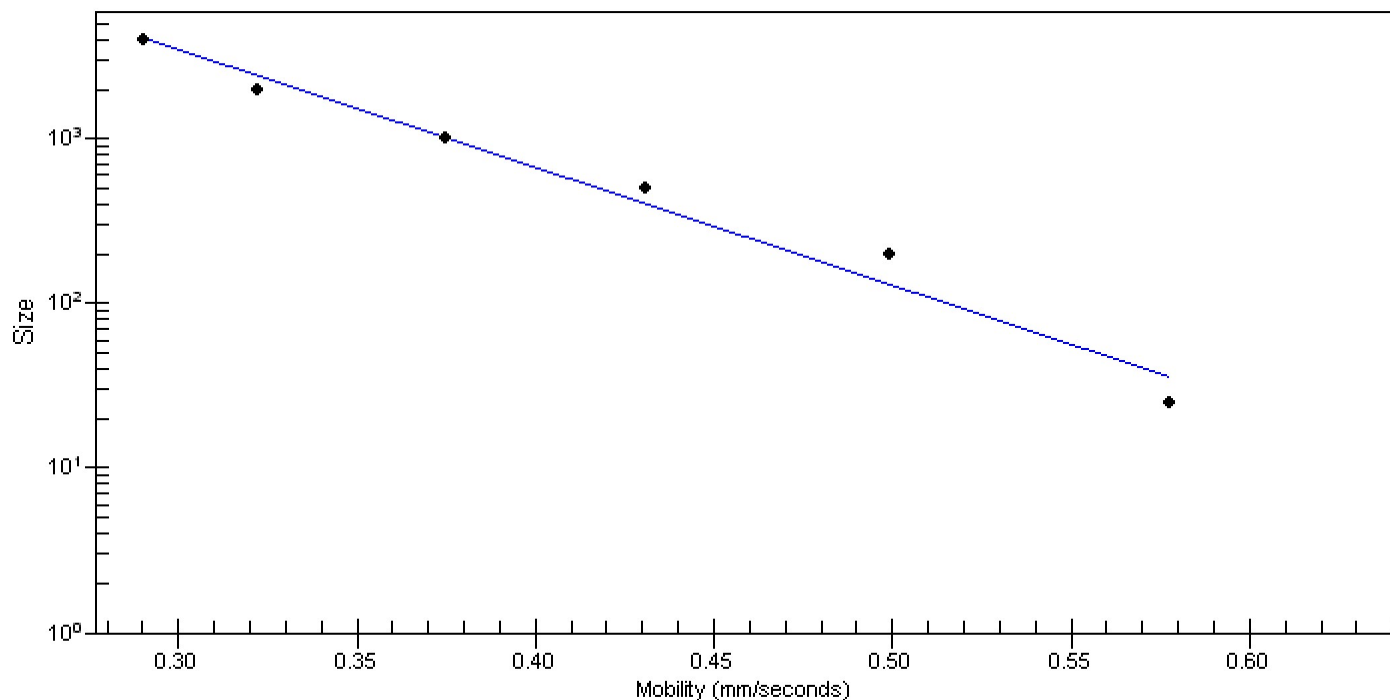


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
Modified: 5/15/2014 10:37:05 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad

Created: 5/15/2014 10:13:11 AM
 Modified: 5/15/2014 10:37:05 AM

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		5/15/2014 10:37:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_001.xad)		Instrument	Run		5/15/2014 10:13:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/15/2014 10:13:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/15/2014 10:13:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/15/2014 10:13:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/15/2014 10:13:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/15/2014 10:13:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/15/2014 10:13:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1