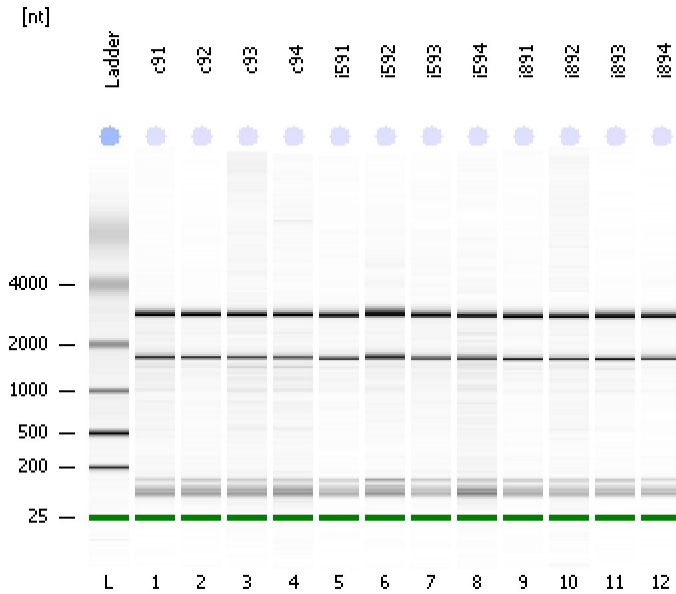


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electrophoresis File Run Summary



Instrument Information:

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

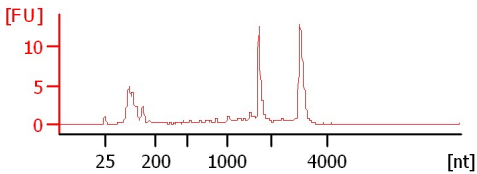
Assay Information:

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.

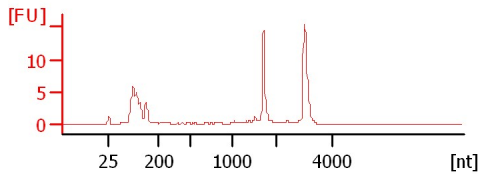
Chip Information:

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

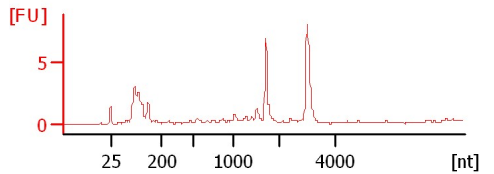
c91
RIN: 7.90



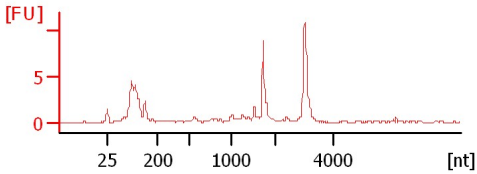
c92
RIN: 8.30



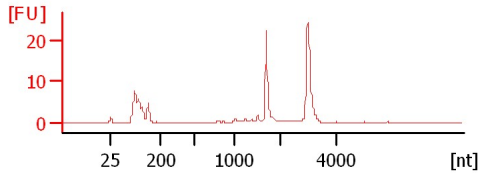
c93
RIN: 7.70



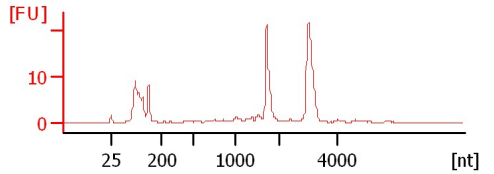
c94
RIN: 7.90



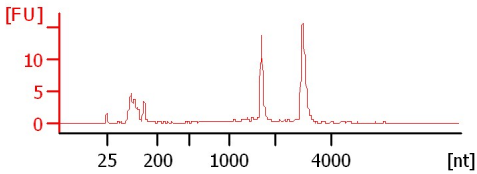
i591
RIN: 8.90



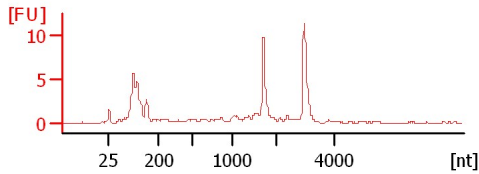
i592
RIN: 8.70



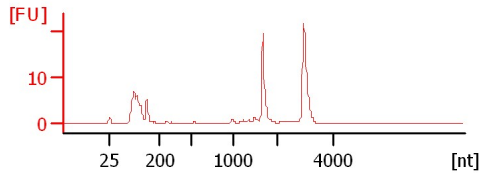
i593
RIN: 8.50



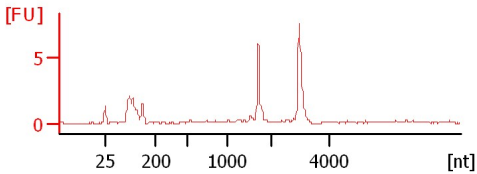
i594
RIN: 7.90



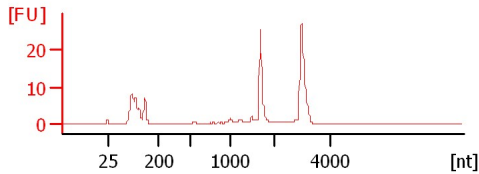
i891
RIN: 9.20



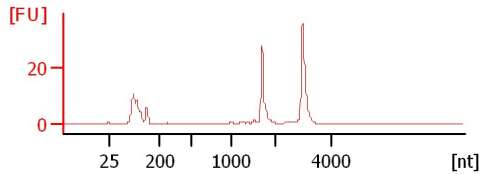
i892
RIN: 8.90



i893
RIN: 8.90



i894
RIN: 9.50



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
c91		✓	RIN: 7.90	
c92		✓	RIN: 8.30	
c93		✓	RIN: 7.70	
c94		✓	RIN: 7.90	
i591		✓	RIN: 8.90	
i592		✓	RIN: 8.70	
i593		✓	RIN: 8.50	
i594		✓	RIN: 7.90	
i891		✓	RIN: 9.20	
i892		✓	RIN: 8.90	
i893		✓	RIN: 8.90	
i894		✓	RIN: 9.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 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/ 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

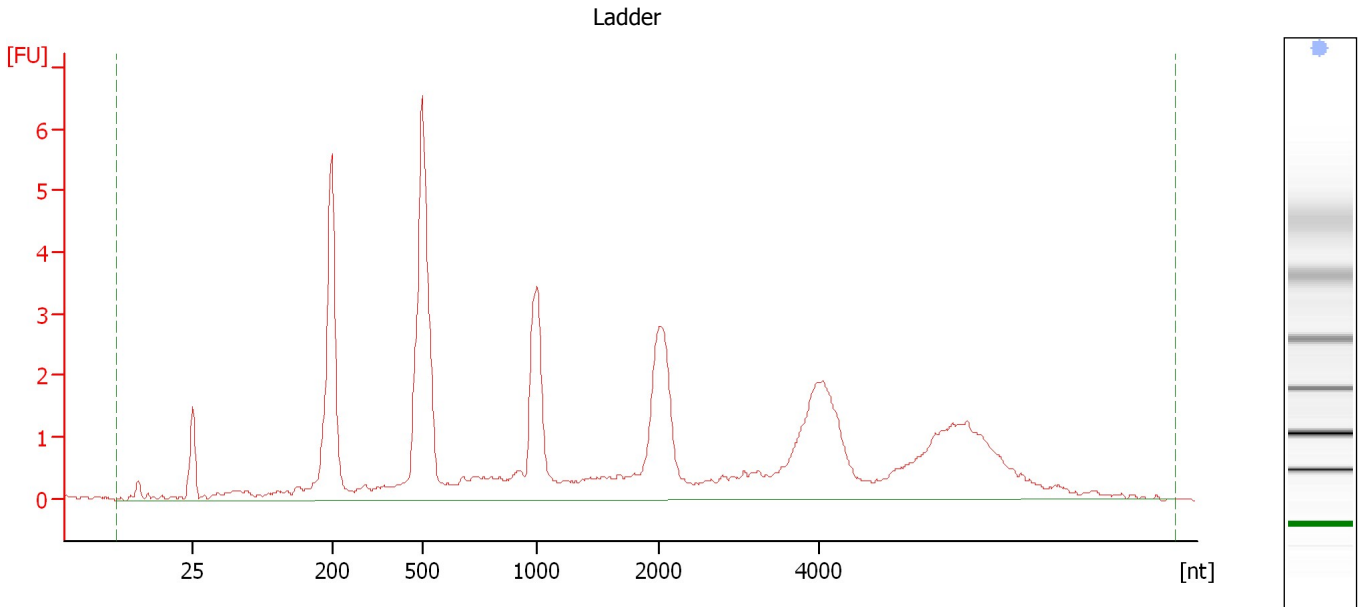
Ladder

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\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary



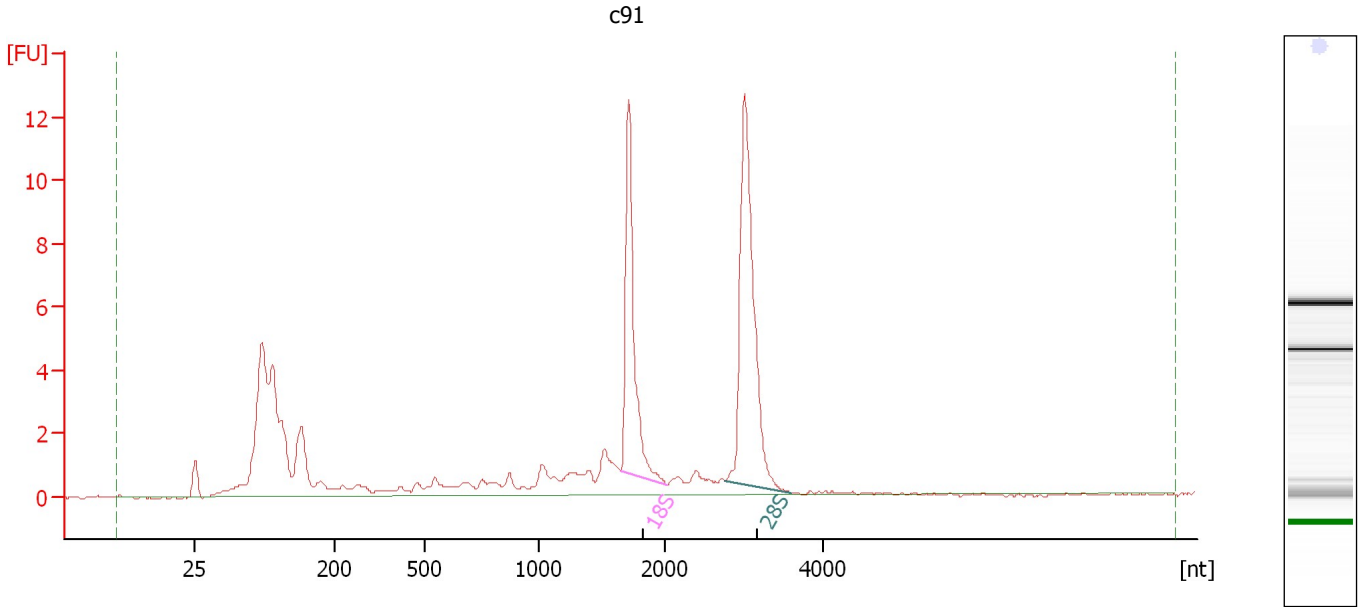
Overall Results for Ladder

RNA Area:	66.8	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : c91

RNA Area: 82.0 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 184 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 7.90

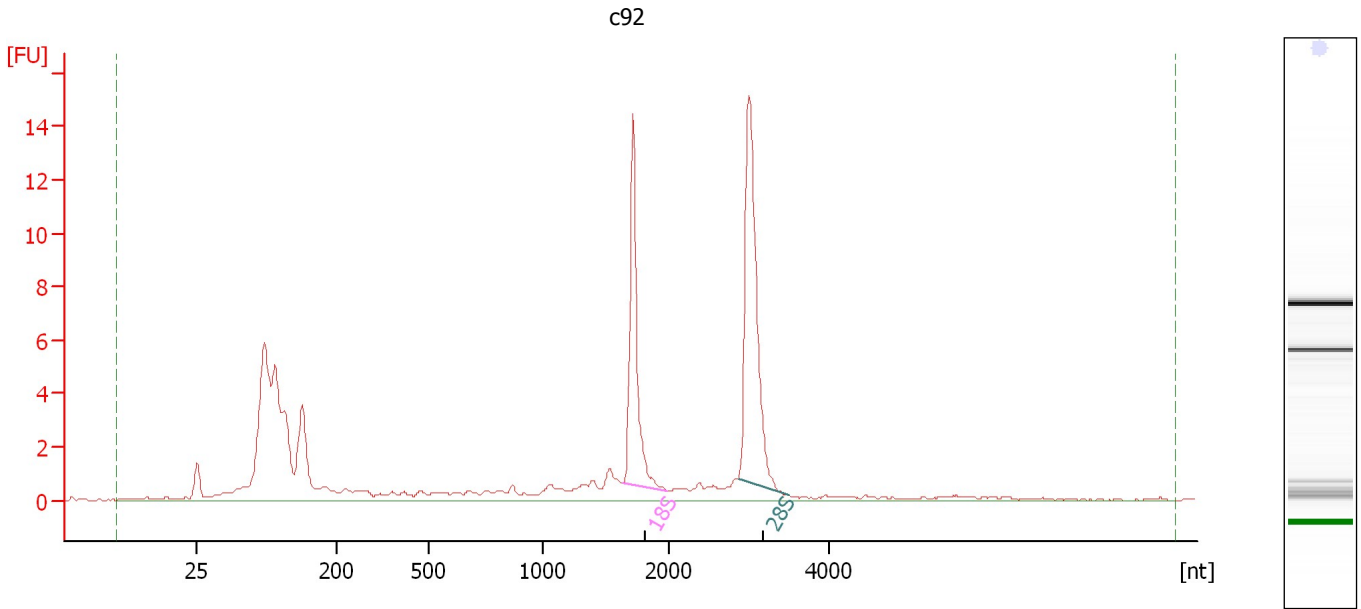
Fragment table for sample 1 : c91

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	2,028	11.5	14.0
28S	2,763	3,578	18.0	22.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : c92

RNA Area:	90.2	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	202 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.30

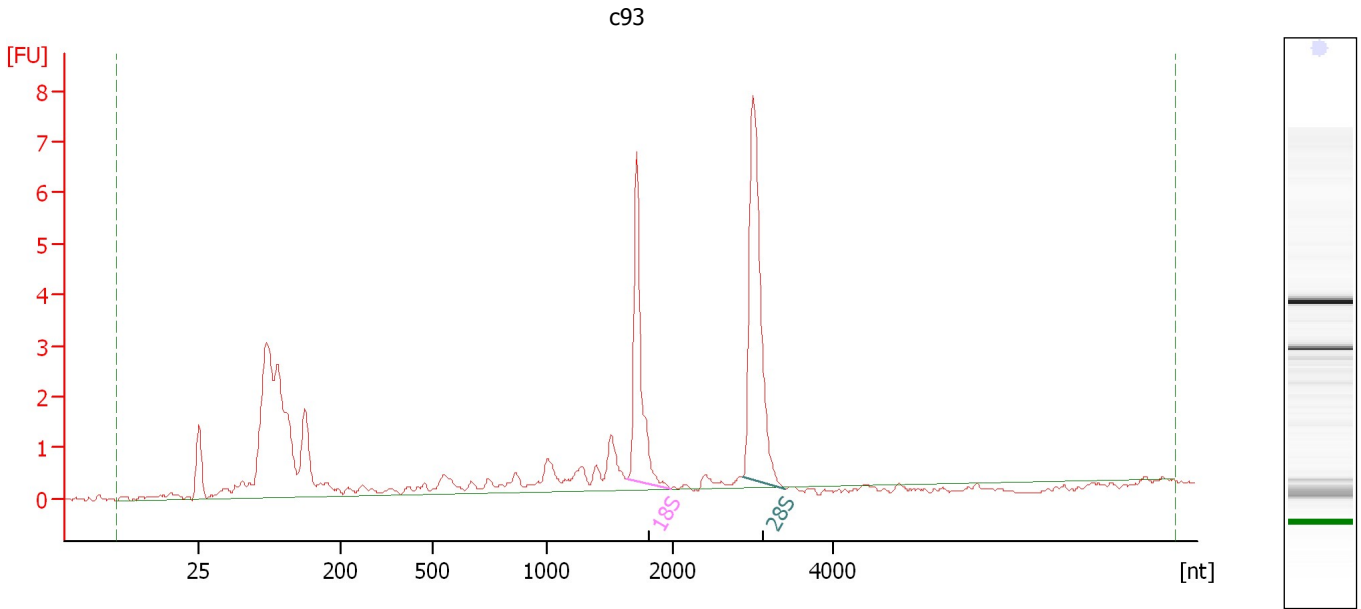
Fragment table for sample 2 : c92

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	1,993	12.0	13.3
28S	2,881	3,493	18.4	20.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : c93

RNA Area: 45.3 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 102 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 7.70

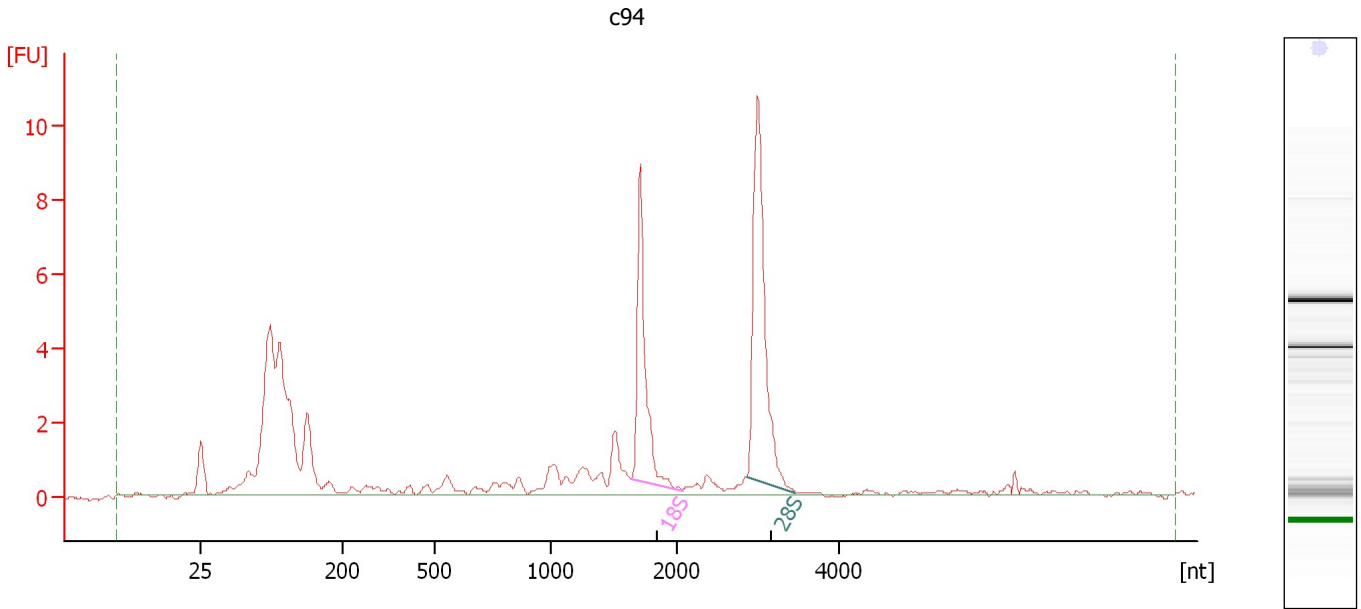
Fragment table for sample 3 : c93

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,985	5.8	12.9
28S	2,865	3,408	9.2	20.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : c94

RNA Area:	64.4	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	145 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.90

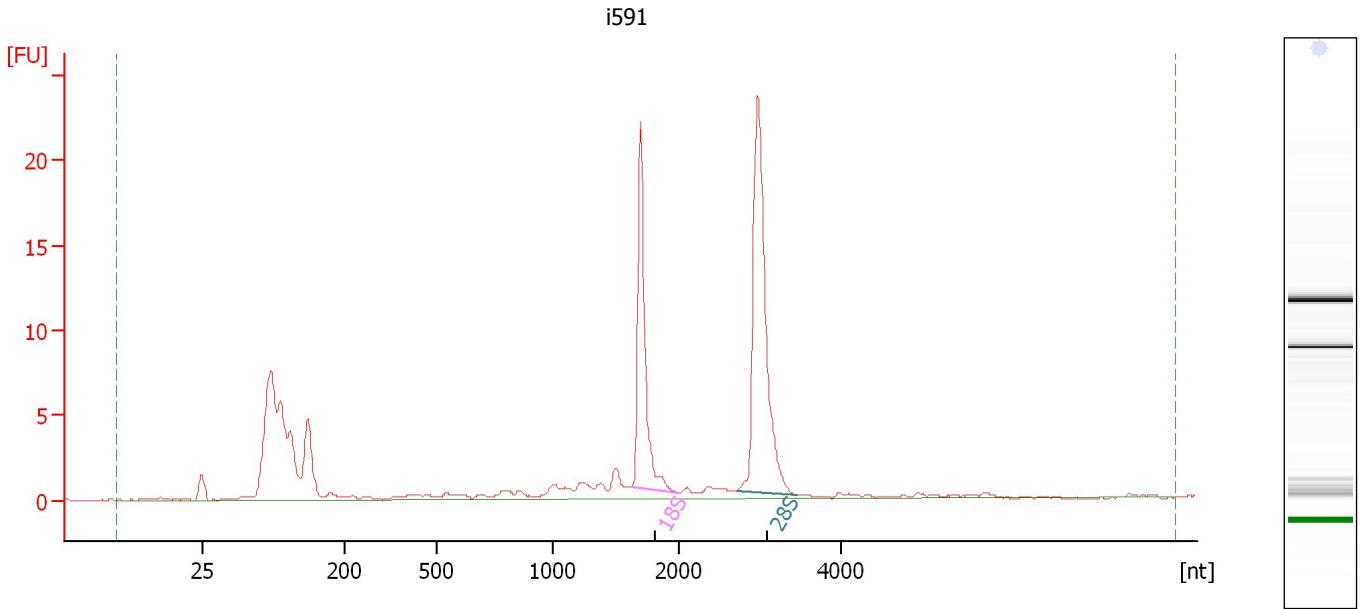
Fragment table for sample 4 : c94

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	2,071	8.0	12.4
28S	2,876	3,470	12.6	19.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : i591

RNA Area: 116.8 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 262 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.90

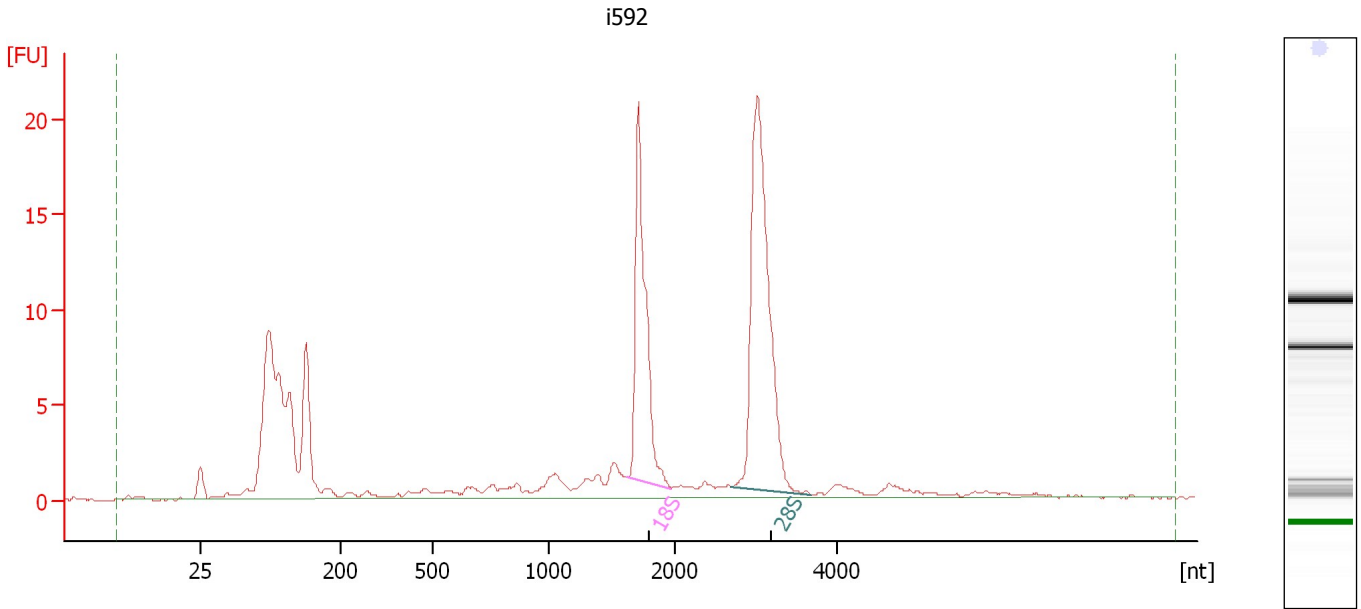
Fragment table for sample 5 : i591

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	1,995	18.5	15.9
28S	2,717	3,454	31.2	26.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : i592

RNA Area:	152.9	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	343 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.70

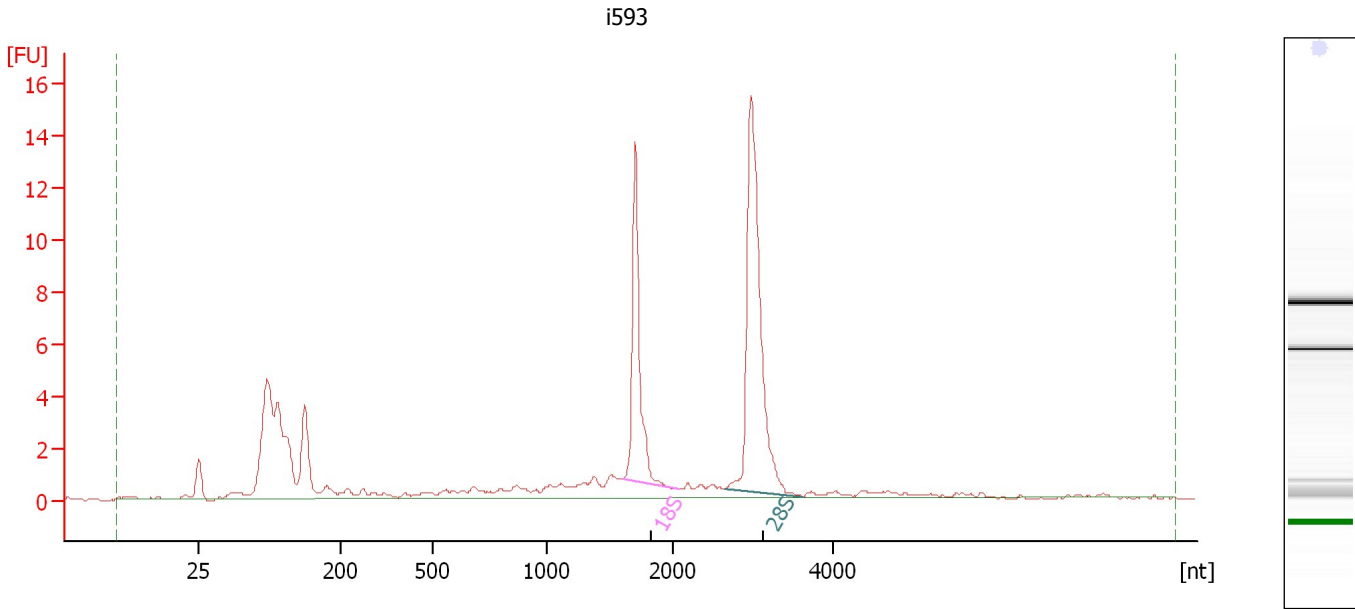
Fragment table for sample 6 : i592

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	1,977	24.5	16.0
28S	2,705	3,697	38.9	25.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : i593

RNA Area:	81.9	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	184 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.50

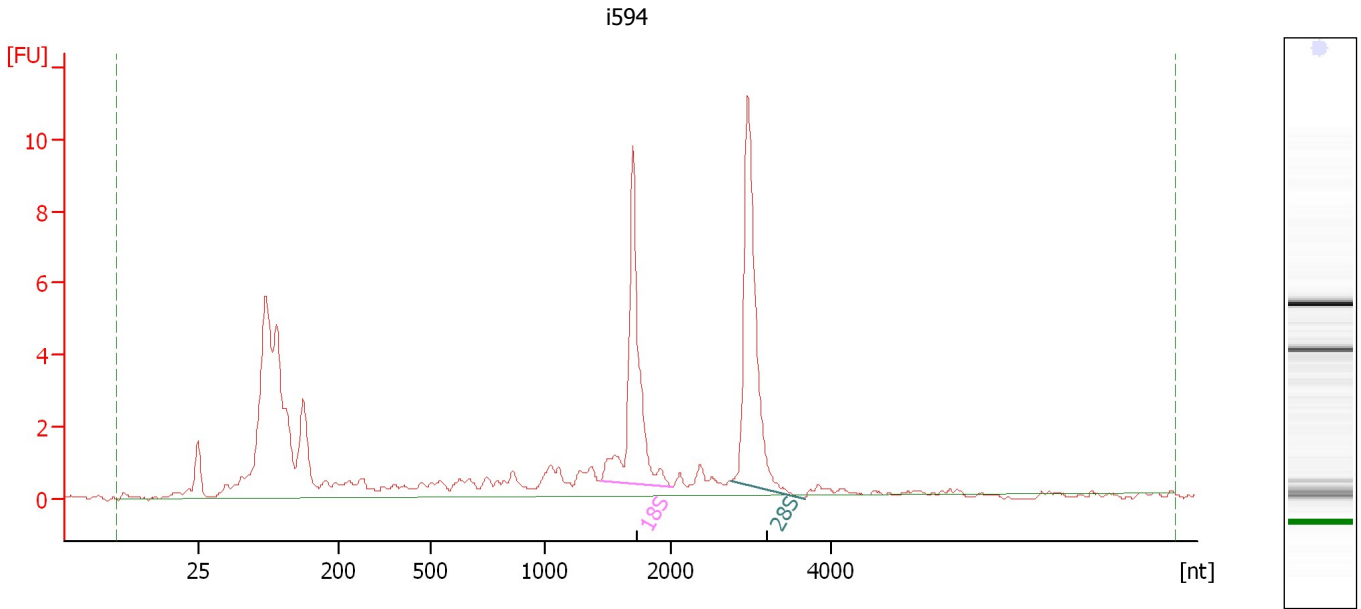
Fragment table for sample 7 : i593

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	2,070	11.7	14.3
28S	2,653	3,620	22.0	26.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : i594

RNA Area:	81.2	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	182 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.90

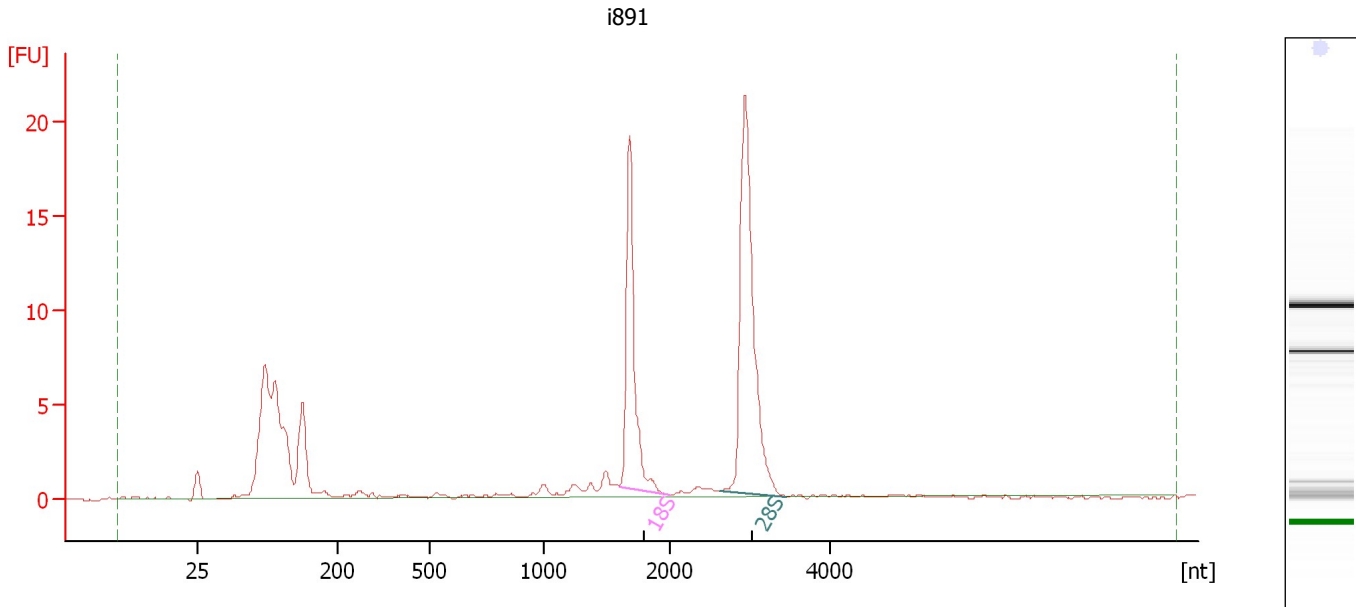
Fragment table for sample 8 : i594

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,439	2,030	12.1	14.9
28S	2,747	3,663	14.1	17.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : i891

RNA Area:	99.5	RNA Integrity Number (RIN):	9.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	223 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.20

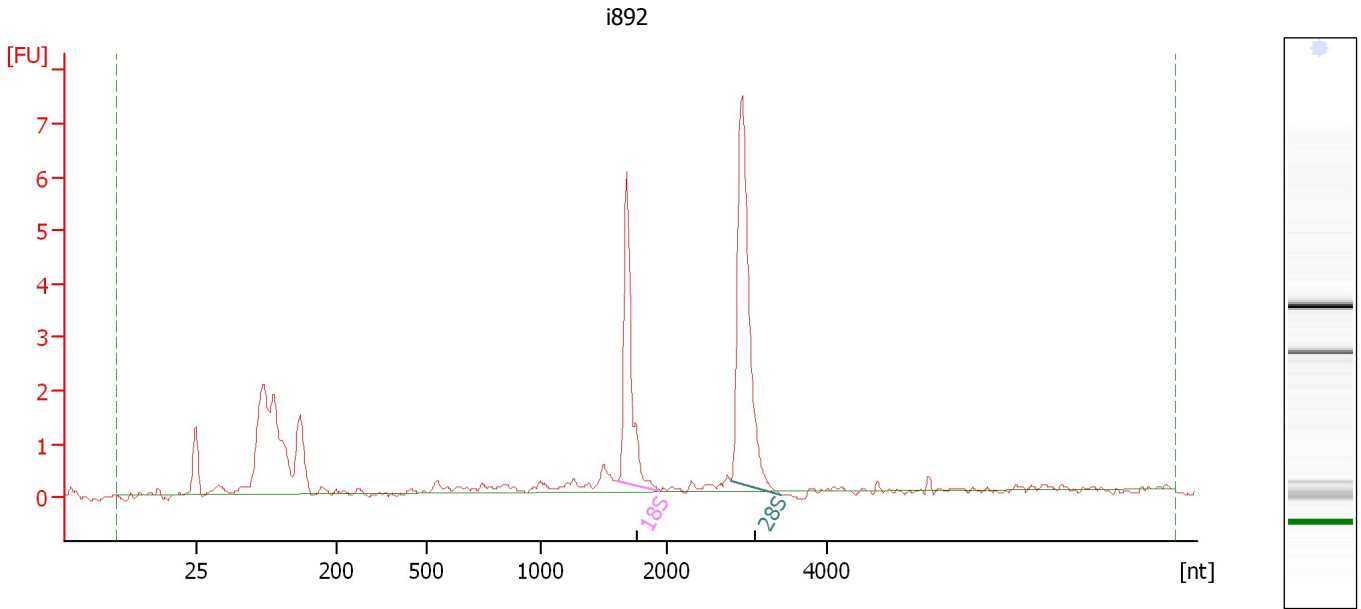
Fragment table for sample 9 : i891

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	2,002	17.3	17.3
28S	2,641	3,453	29.9	30.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : i892

RNA Area:	33.0	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	74 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.90

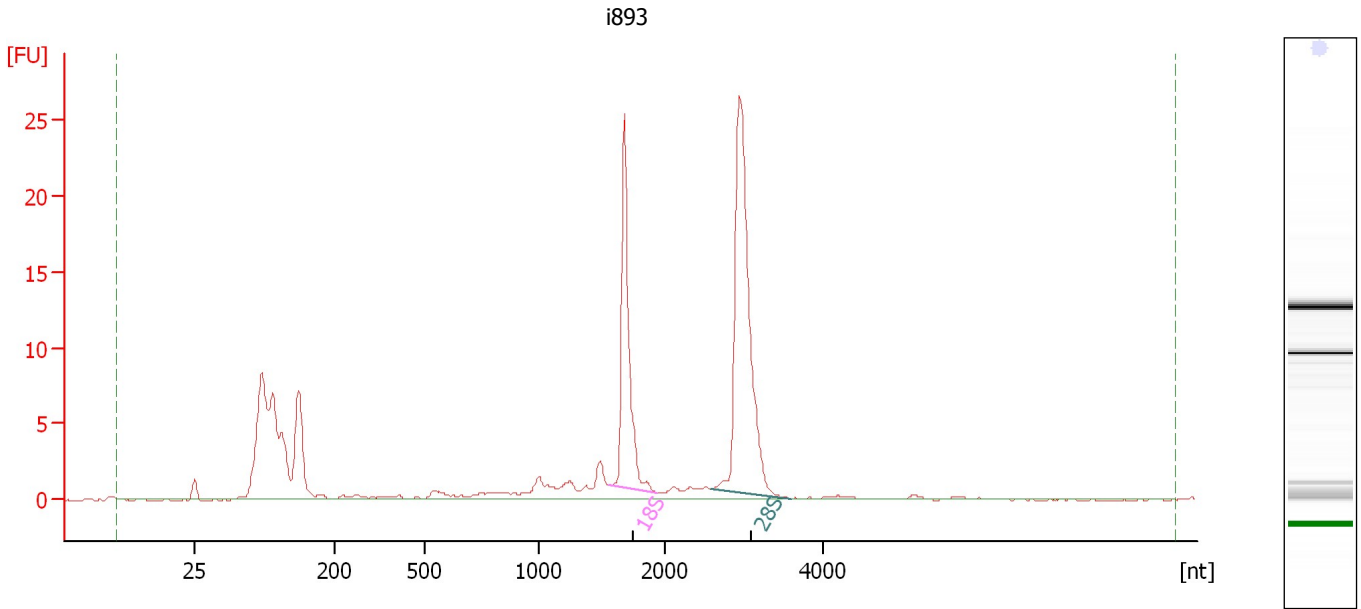
Fragment table for sample 10 : i892

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	1,941	5.1	15.5
28S	2,815	3,429	9.0	27.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
 Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : i893

RNA Area:	132.7	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	298 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.90

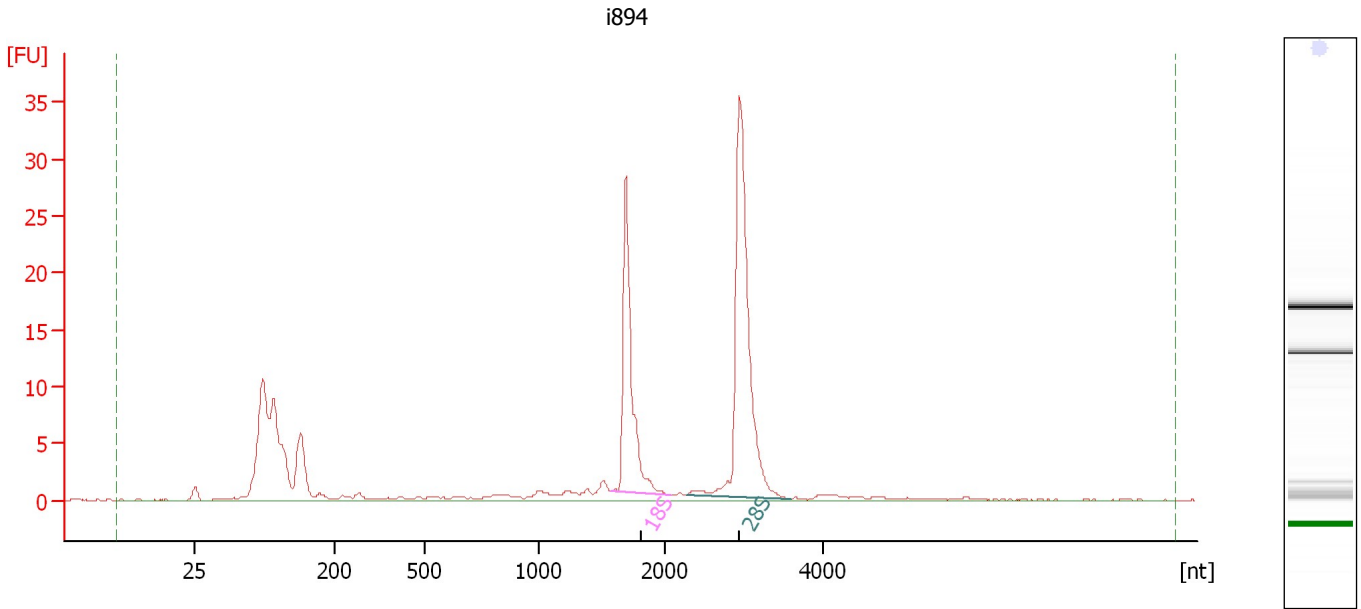
Fragment table for sample 11 : i893

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,563	1,940	21.9	16.5
28S	2,589	3,578	40.4	30.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
 Modified: 4/29/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : i894

RNA Area:	159.6	RNA Integrity Number (RIN):	9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	358 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.50

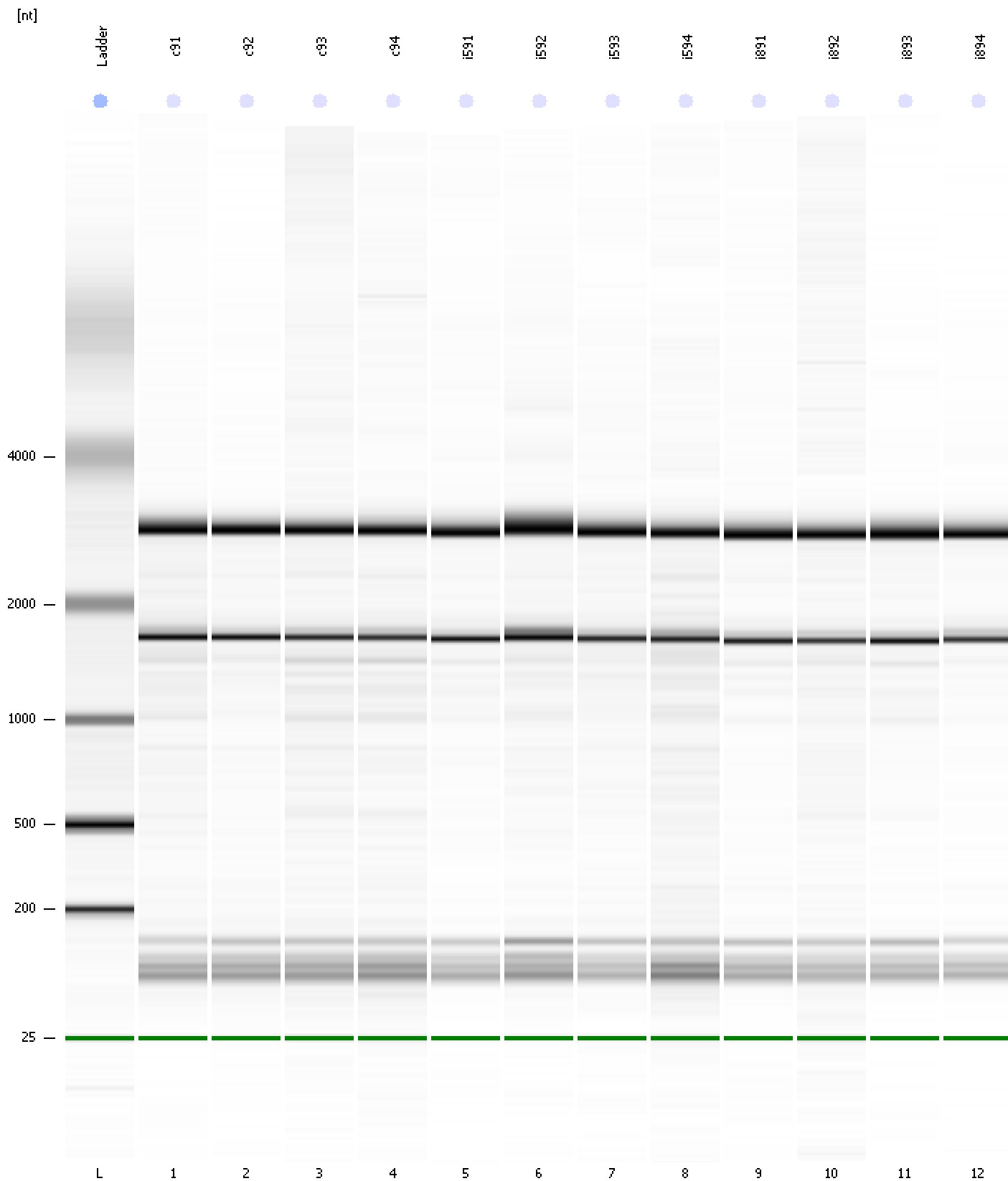
Fragment table for sample 12 : i894

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	2,081	27.8	17.4
28S	2,282	3,578	48.9	30.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Gel Image

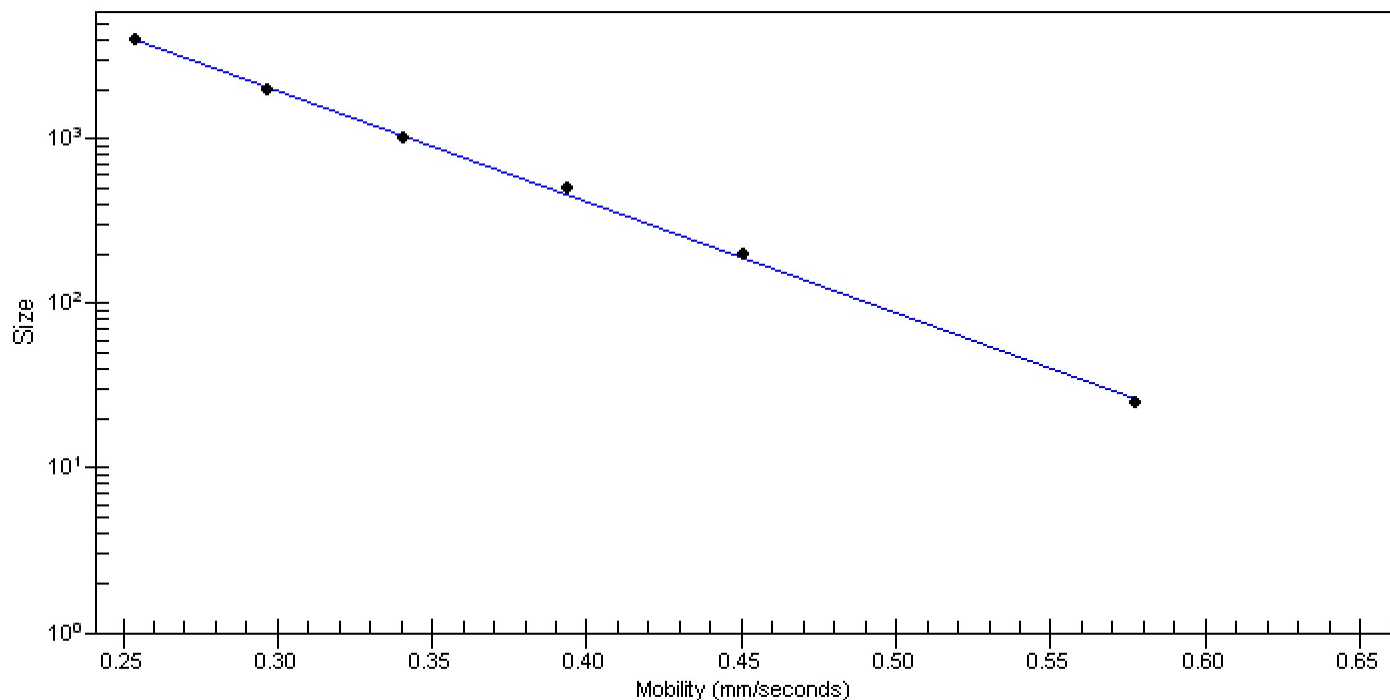


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
Modified: 4/29/2016 12:06:59 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad

Created: 4/29/2016 11:40:22 AM
 Modified: 4/29/2016 12:06:59 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		4/29/2016 12:03:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_002.xad)		Instrument	Run		4/29/2016 11:40:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/29/2016 11:40:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/29/2016 11:40:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/29/2016 11:40:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/29/2016 11:40:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/29/2016 11:40:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/29/2016 11:40:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1