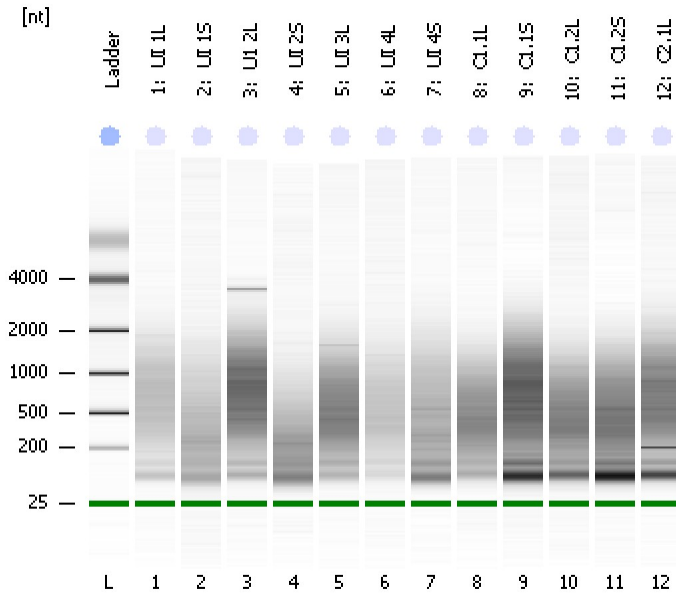


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electrophoresis File Run Summary



Instrument Information:

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

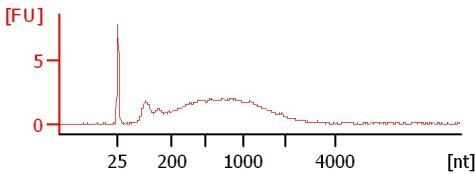
Assay Information:

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.

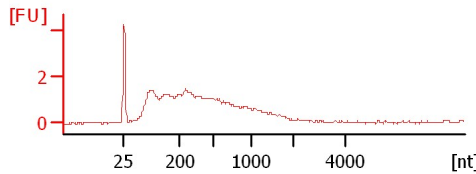
Chip Information:

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

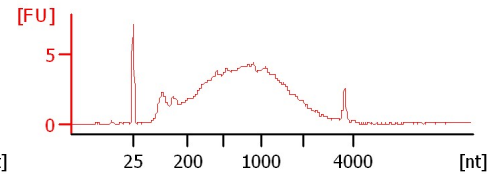
1313
RIN: 2.20



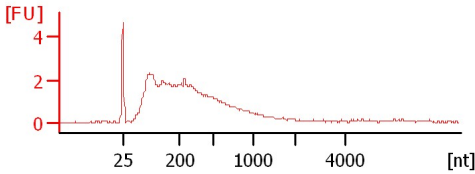
HiSeq_086 Total RNA QC
RIN: 2.30



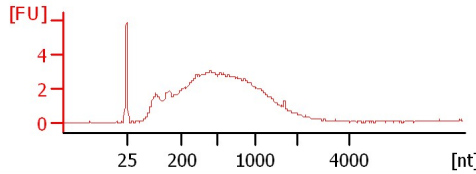
HiSeq_086 Total RNA QC
RIN: 2.30



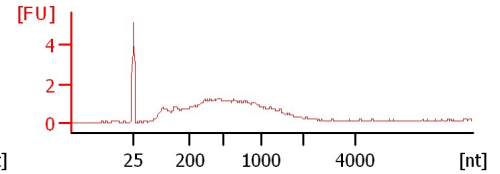
HiSeq_086 Total RNA QC
RIN: 2.40



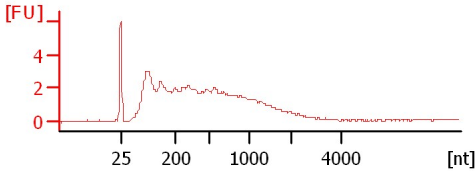
HiSeq_086 Total RNA QC
RIN: 2.60



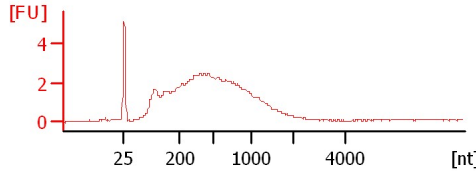
HiSeq_086 Total RNA QC
RIN: 2.10



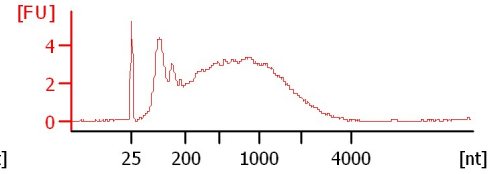
HiSeq_086 Total RNA QC
RIN: 2.30



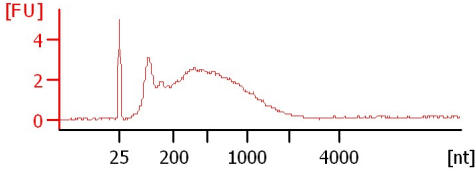
HiSeq_086 Total RNA QC
RIN: 2.20



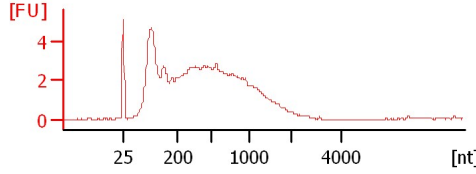
HiSeq_086 Total RNA QC
RIN: 2.10



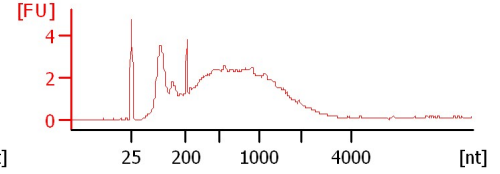
HiSeq_086 Total RNA QC
RIN: 2.20



HiSeq_086 Total RNA QC
RIN: 2.10



HiSeq_086 Total RNA QC
RIN: 2.10



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1: UI 1L	1313	✓	RIN: 2.20	
2: UI 1S	HiSeq_086 Total RNA QC	✓	RIN: 2.30	
3: U1 2L	HiSeq_086 Total RNA QC	✓	RIN: 2.30	
4: UI 2S	HiSeq_086 Total RNA QC	✓	RIN: 2.40	
5: UI 3L	HiSeq_086 Total RNA QC	✓	RIN: 2.60	
6: UI 4L	HiSeq_086 Total RNA QC	✓	RIN: 2.10	
7: UI 4S	HiSeq_086 Total RNA QC	✓	RIN: 2.30	
8: C1.1L	HiSeq_086 Total RNA QC	✓	RIN: 2.20	
9: C1.1S	HiSeq_086 Total RNA QC	✓	RIN: 2.10	
10: C1.2L	HiSeq_086 Total RNA QC	✓	RIN: 2.20	
11: C1.2S	HiSeq_086 Total RNA QC	✓	RIN: 2.10	
12: C2.1L	HiSeq_086 Total RNA QC	✓	RIN: 2.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 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

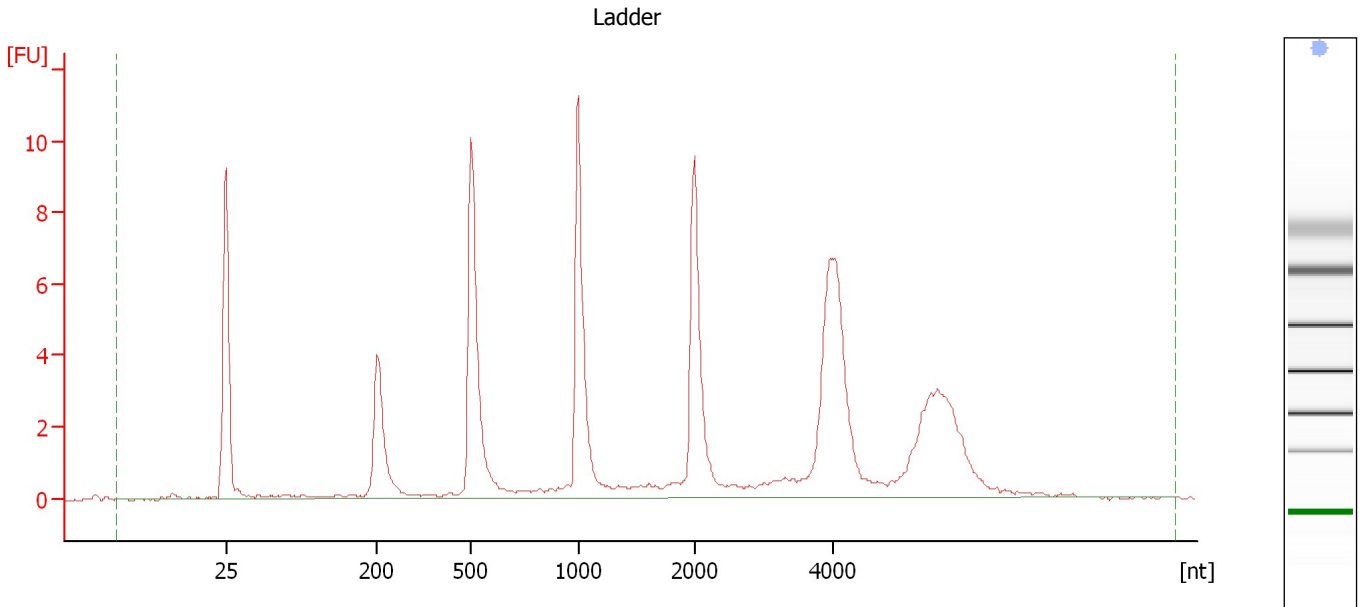
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary



Overall Results for Ladder

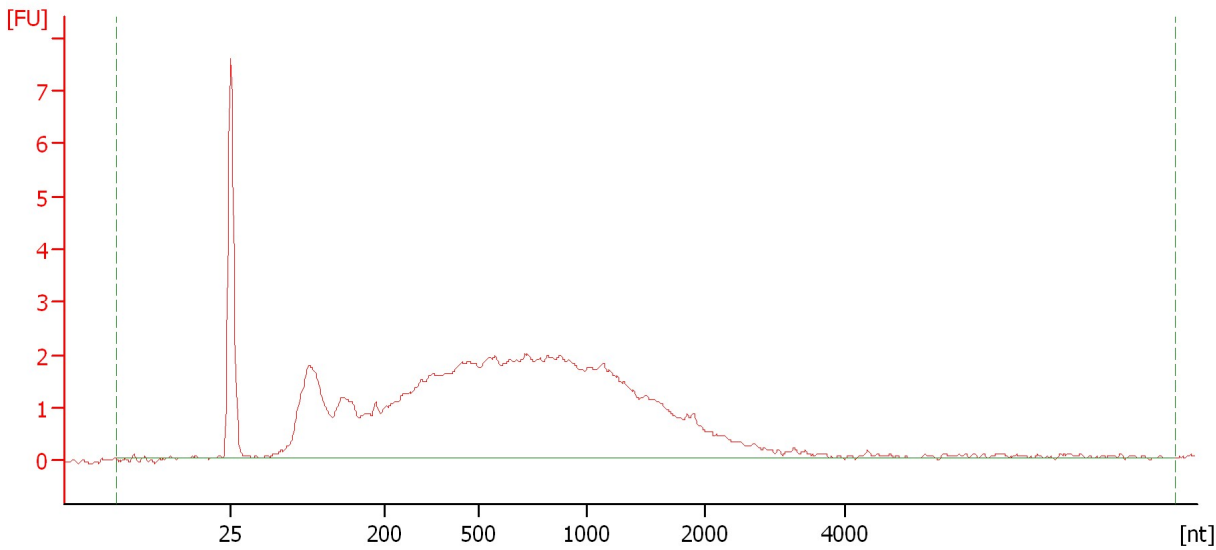
RNA Area:	84.5	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

1: UI 1L [1313]



Overall Results for sample 1 : 1: UI 1L

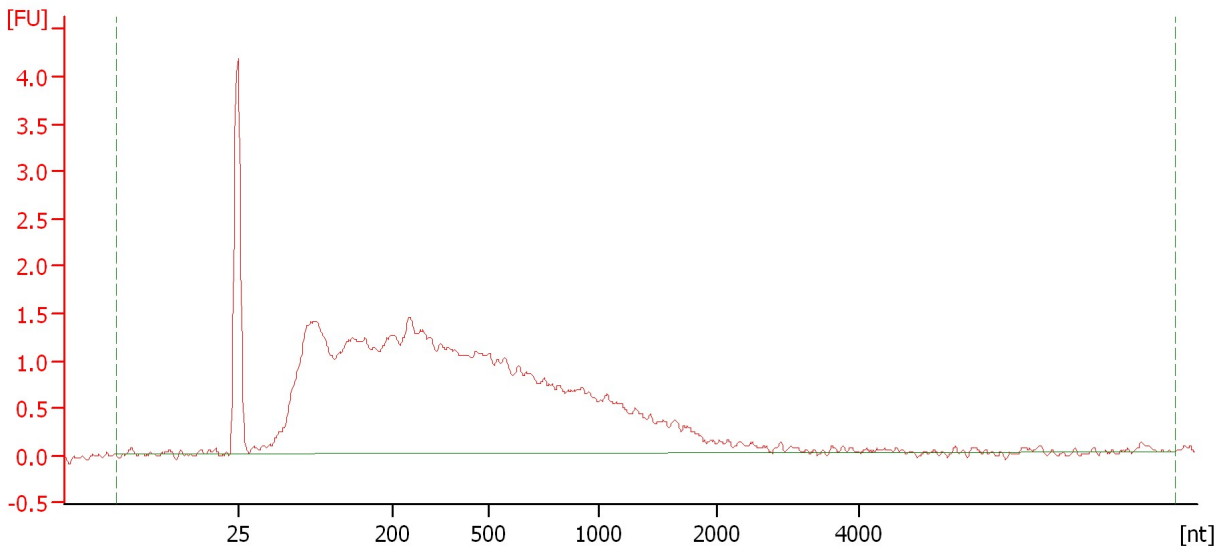
RNA Area:	77.9	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	138 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

2: UI 1S [HiSeq_086 Total RNA QC]



Overall Results for sample 2 : 2: UI 1S

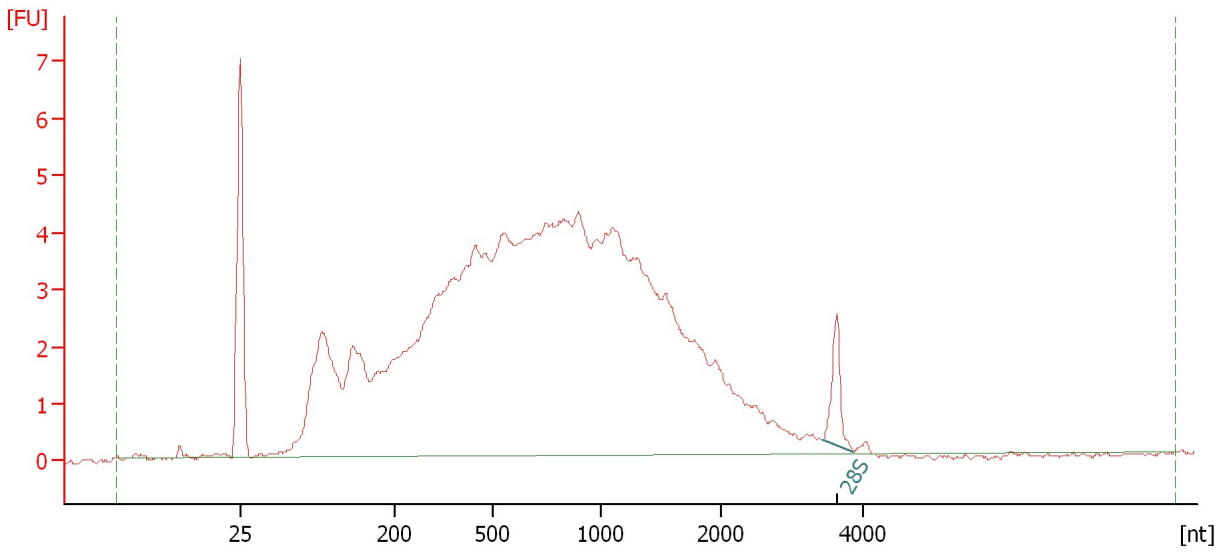
RNA Area:	49.6	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	88 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

3: U1 2L [HiSeq_086 Total RNA QC]



Overall Results for sample 3 : 3: U1 2L

RNA Area:	152.3	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	271 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Fragment table for sample 3 : 3: U1 2L

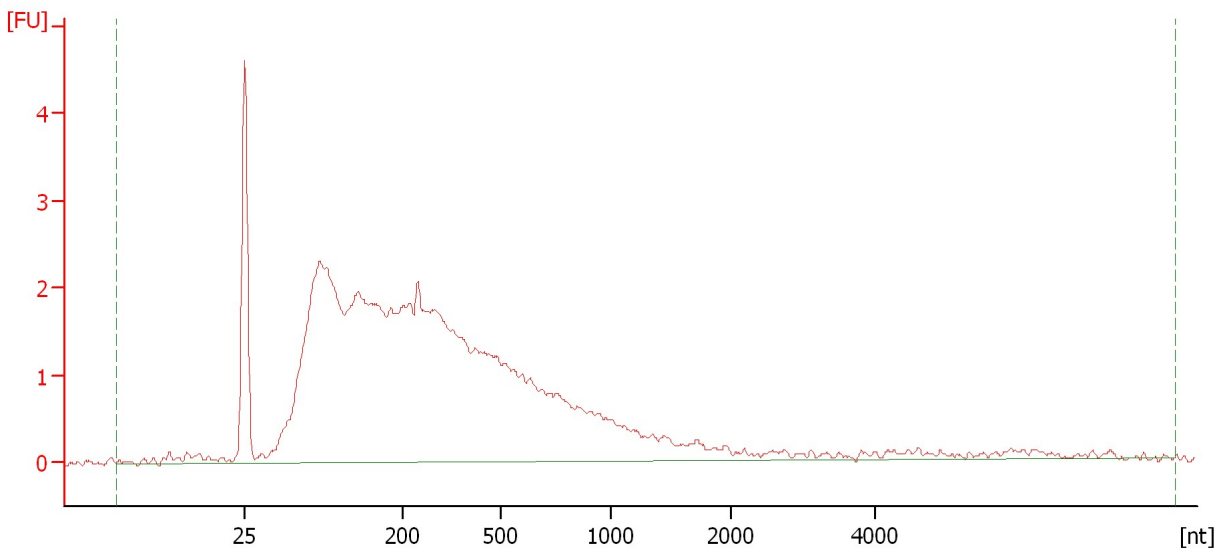
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	3,430	3,864	1.9	1.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

4: UI 2S [HiSeq_086 Total RNA QC]



Overall Results for sample 4 : 4: UI 2S

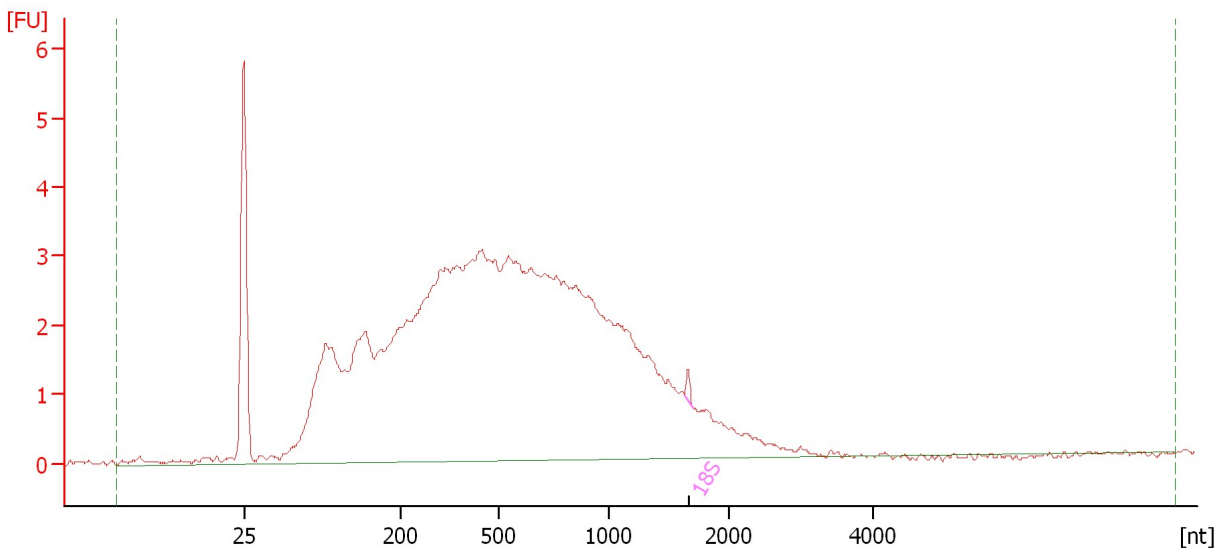
RNA Area:	67.2	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	119 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

5: UI 3L [HiSeq_086 Total RNA QC]



Overall Results for sample 5 : 5: UI 3L

RNA Area:	108.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	193 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Fragment table for sample 5 : 5: UI 3L

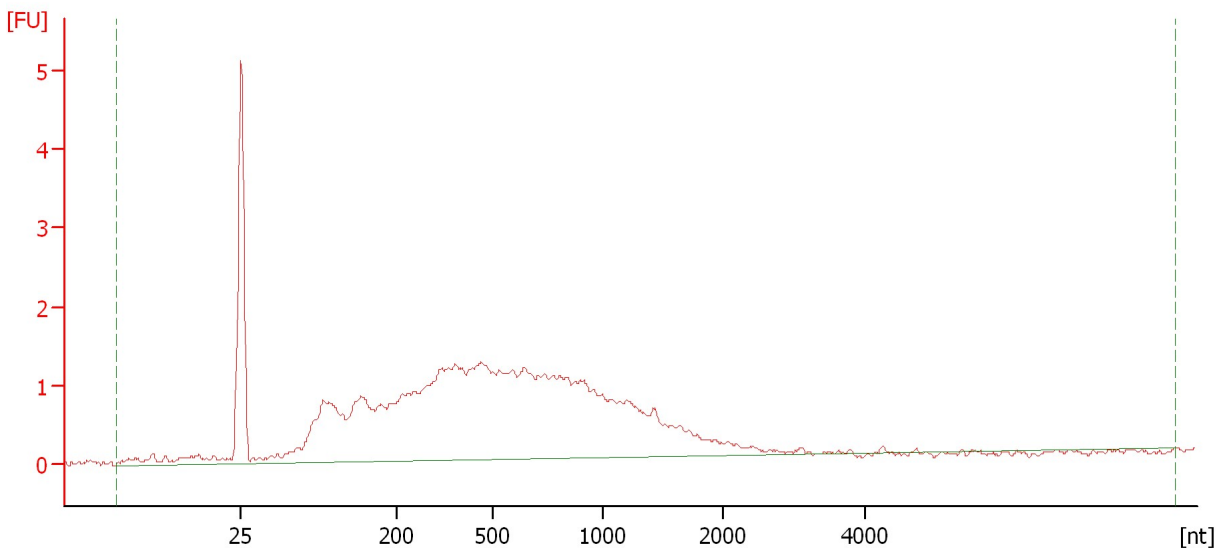
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,703	0.2	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

6: UI 4L [HiSeq_086 Total RNA QC]



Overall Results for sample 6 : 6: UI 4L

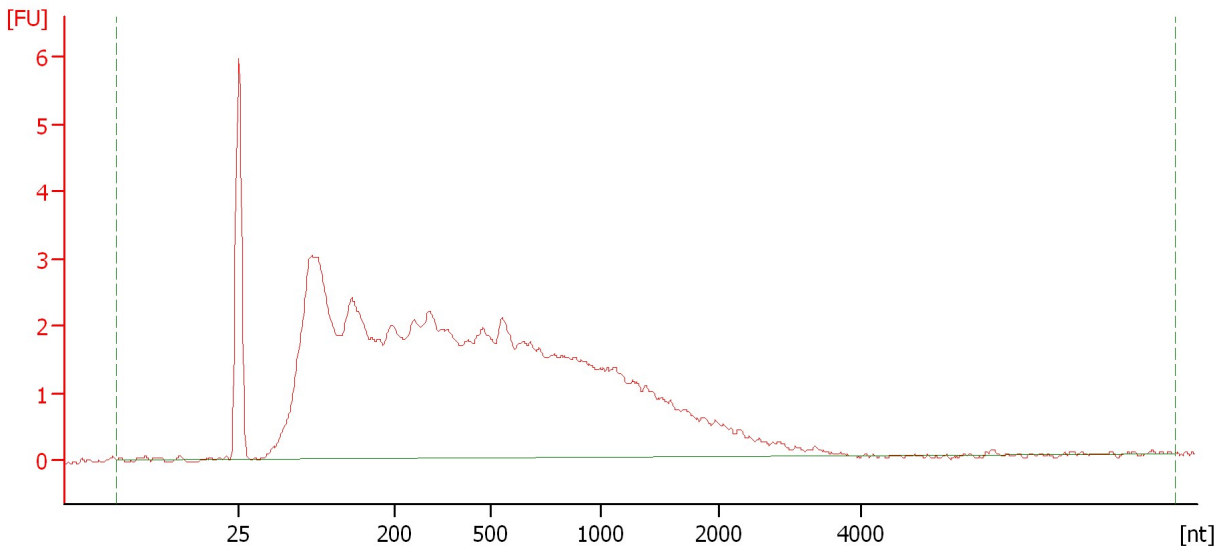
RNA Area:	45.1	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	80 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

7: UI 4S [HiSeq_086 Total RNA QC]



Overall Results for sample 7 : 7: UI 4S

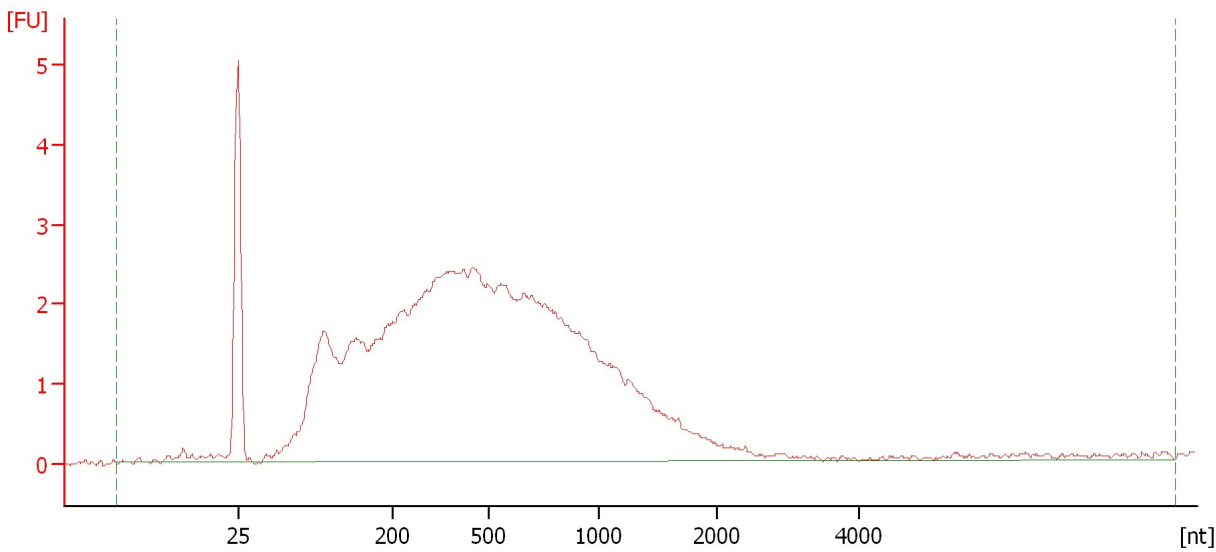
RNA Area:	93.7	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	166 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

8: C1.1L [HiSeq_086 Total RNA QC]



Overall Results for sample 8 : 8: C1.1L

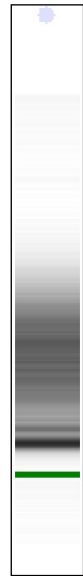
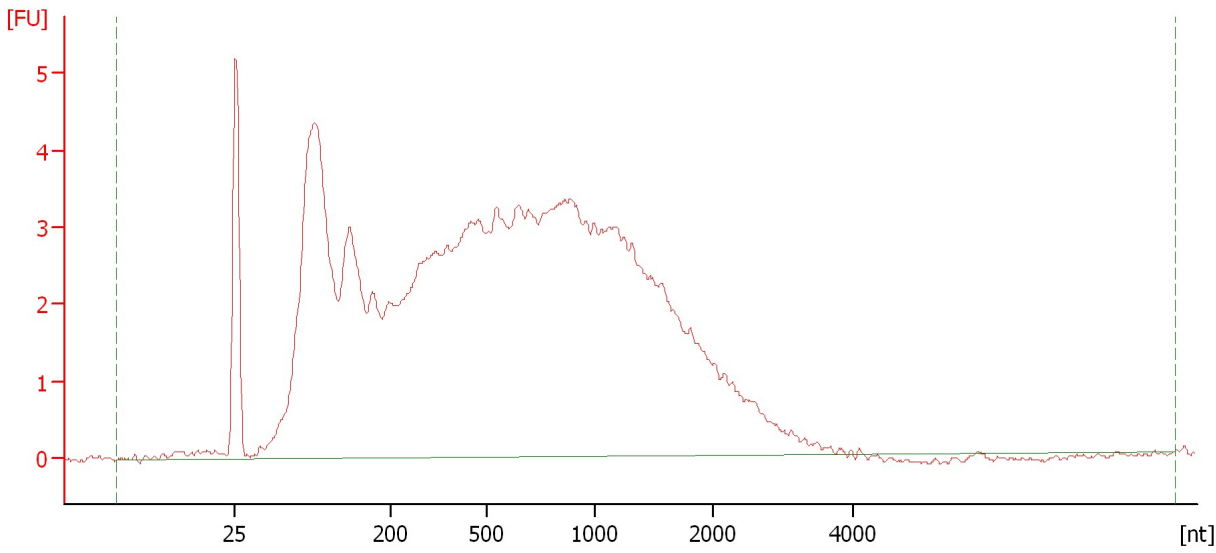
RNA Area:	85.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	152 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

9: C1.1S [HiSeq_086 Total RNA QC]



Overall Results for sample 9 : 9: C1.1S

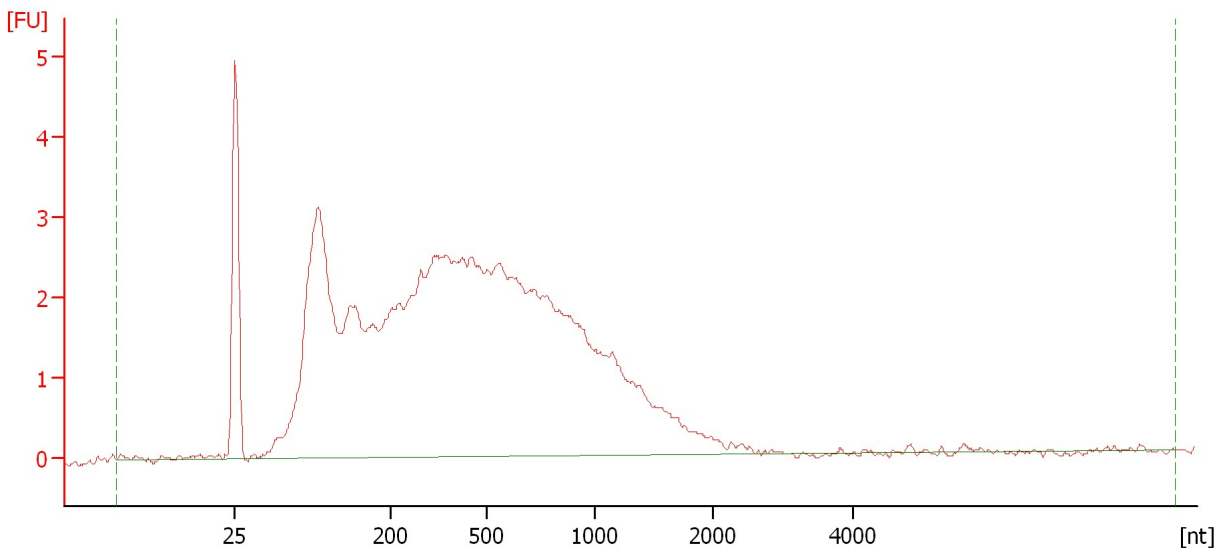
RNA Area:	152.2	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	270 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

10: C1.2L [HiSeq_086 Total RNA QC]



Overall Results for sample 10 : 10: C1.2L

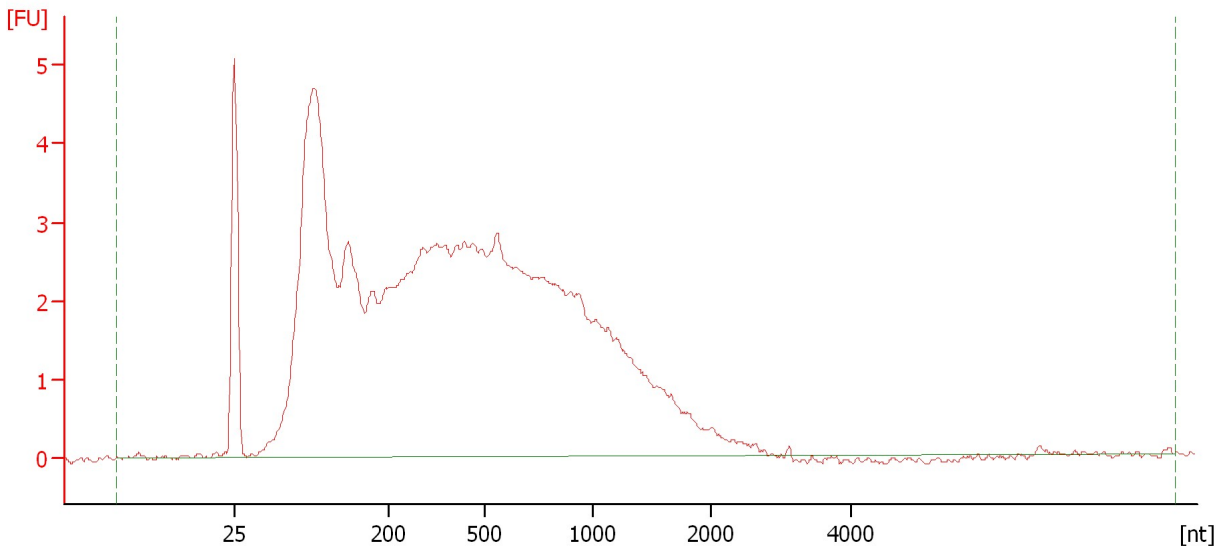
RNA Area:	93.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	166 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

11: C1.2S [HiSeq_086 Total RNA QC]



Overall Results for sample 11 : 11: C1.2S

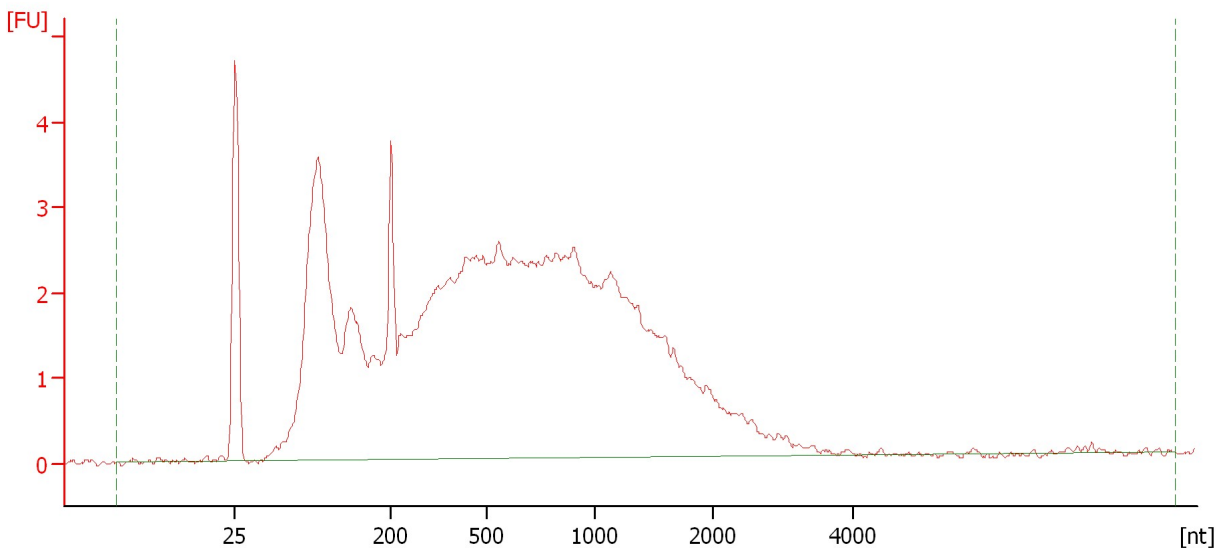
RNA Area:	120.0	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	213 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Electropherogram Summary Continued ...

12: C2.1L [HiSeq_086 Total RNA QC]



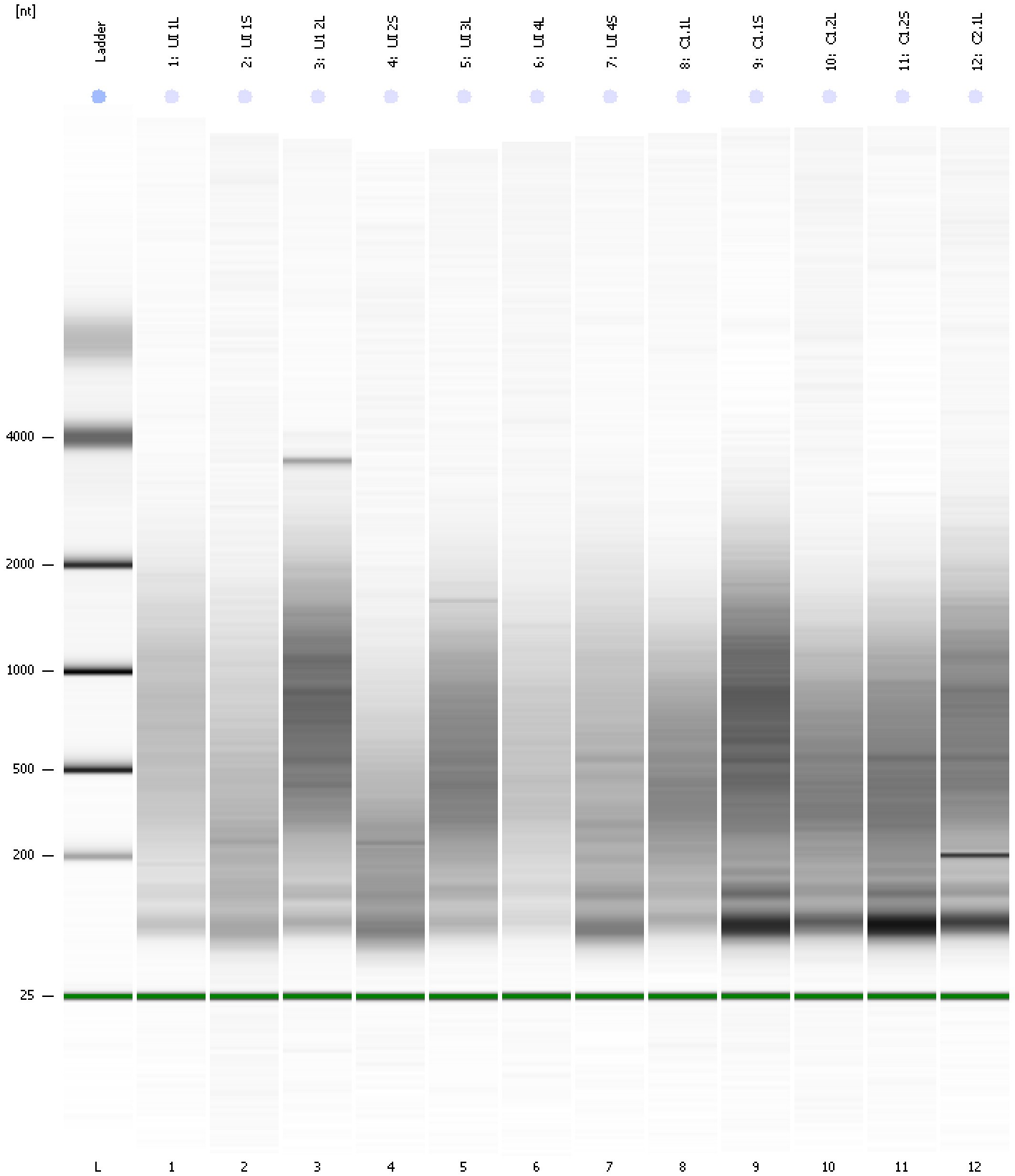
Overall Results for sample 12 : 12: C2.1L

RNA Area:	105.4	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	187 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:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Gel Image

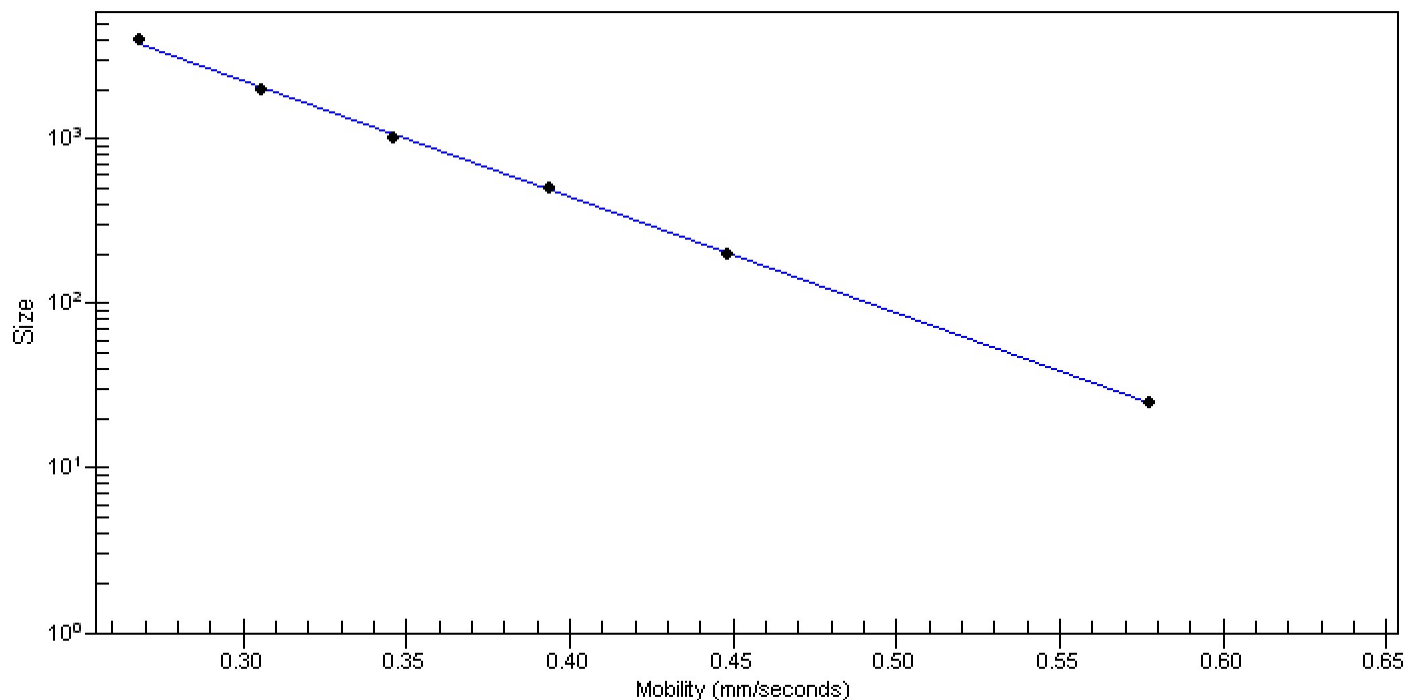


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
Modified: 4/2/2015 12:46:11 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad

Created: 4/2/2015 11:59:16 AM
 Modified: 4/2/2015 12:46:11 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		4/2/2015 12:23:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-02\2015-04-02_001.xad)		Instrument	Run		4/2/2015 11:59:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/2/2015 11:59:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/2/2015 11:59:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/2/2015 11:59:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/2/2015 11:59:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/2/2015 11:59:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/2/2015 11:59:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1