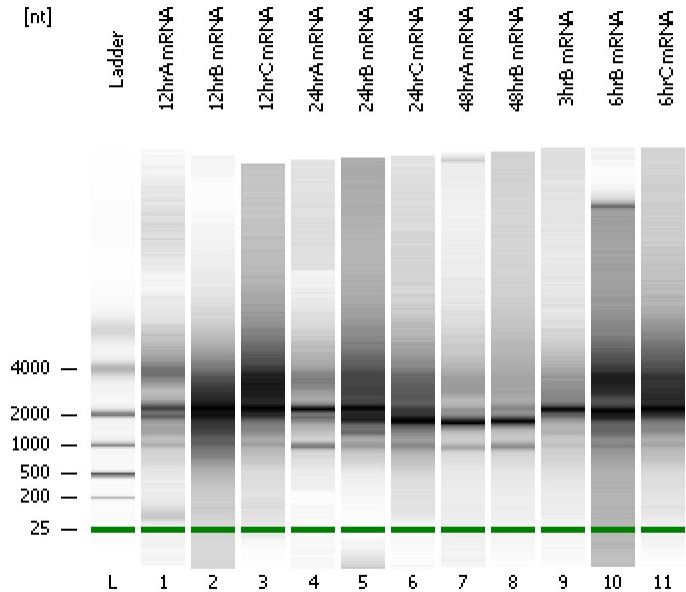


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 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\mRNA Pico Series II.xsy

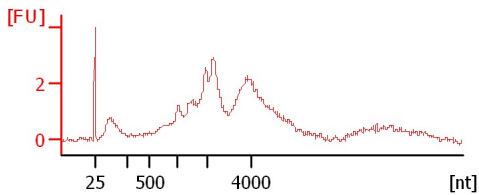
Assay Class: mRNA Pico
Version: 2.6
Assay Comments: mRNA Analysis pg sensitivity

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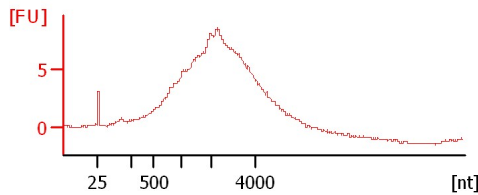
Chip Information:

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

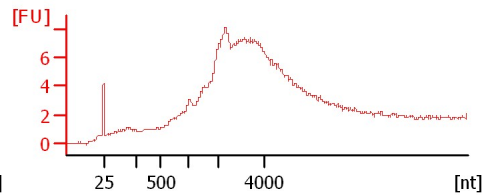
12hrA mRNA



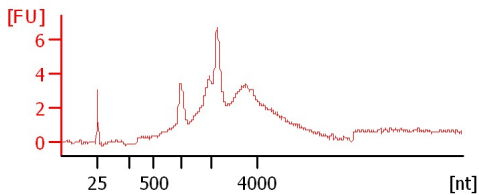
12hrB mRNA



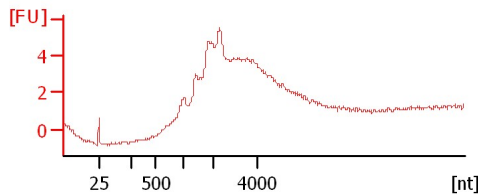
12hrC mRNA



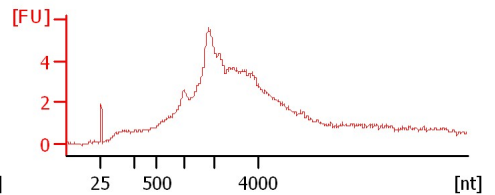
24hrA mRNA



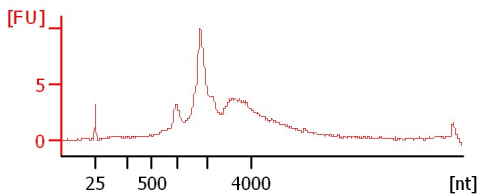
24hrB mRNA



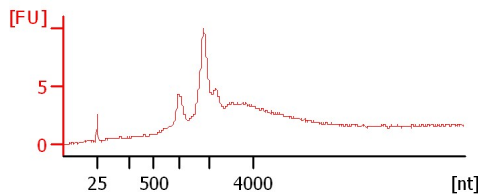
24hrC mRNA



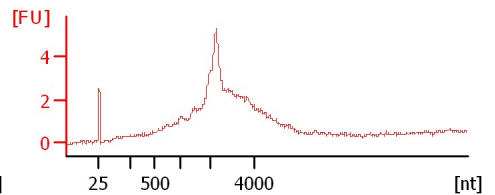
48hrA mRNA



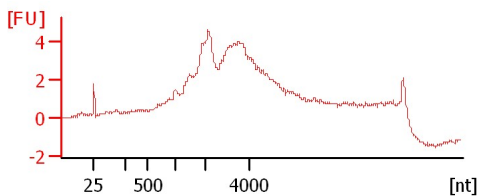
48hrB mRNA



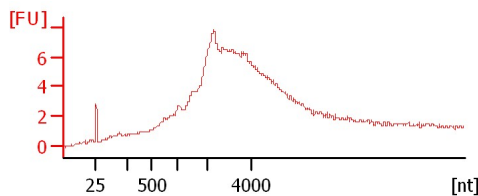
3hrB mRNA



6hrB mRNA



6hrC mRNA



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
12hrA mRNA		✓		
12hrB mRNA		✓		
12hrC mRNA		✓		
24hrA mRNA		✓		
24hrB mRNA		✓		
24hrC mRNA		✓		
48hrA mRNA		✓		
48hrB mRNA		✓		
3hrB mRNA		✓		
6hrB mRNA		✓		
6hrC mRNA		✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12

Minimum Visible Range [s] : 14

Maximum Visible Range [s] : 85

Start Analysis Time Range [s] : 15

End Analysis Time Range [s] : 84

Ladder Concentration [pg/ μ l] : 1000

Lower Marker Concentration [pg/ μ l] : 0

Upper Marker Concentration [pg/ 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] : 15

Integration End Time [s] : 84

Slope Threshold : 0.2

Height Threshold [FU] : 0.5

Area Threshold : 0.1

Width Threshold [s] : 0.2

Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

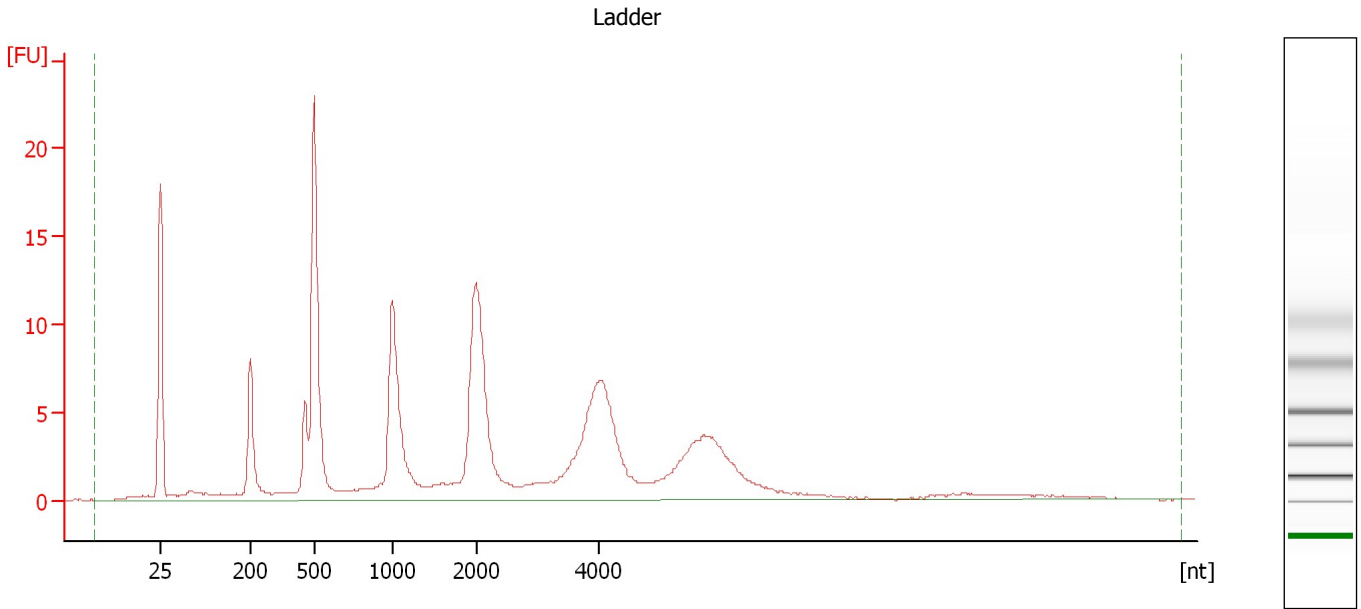
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary



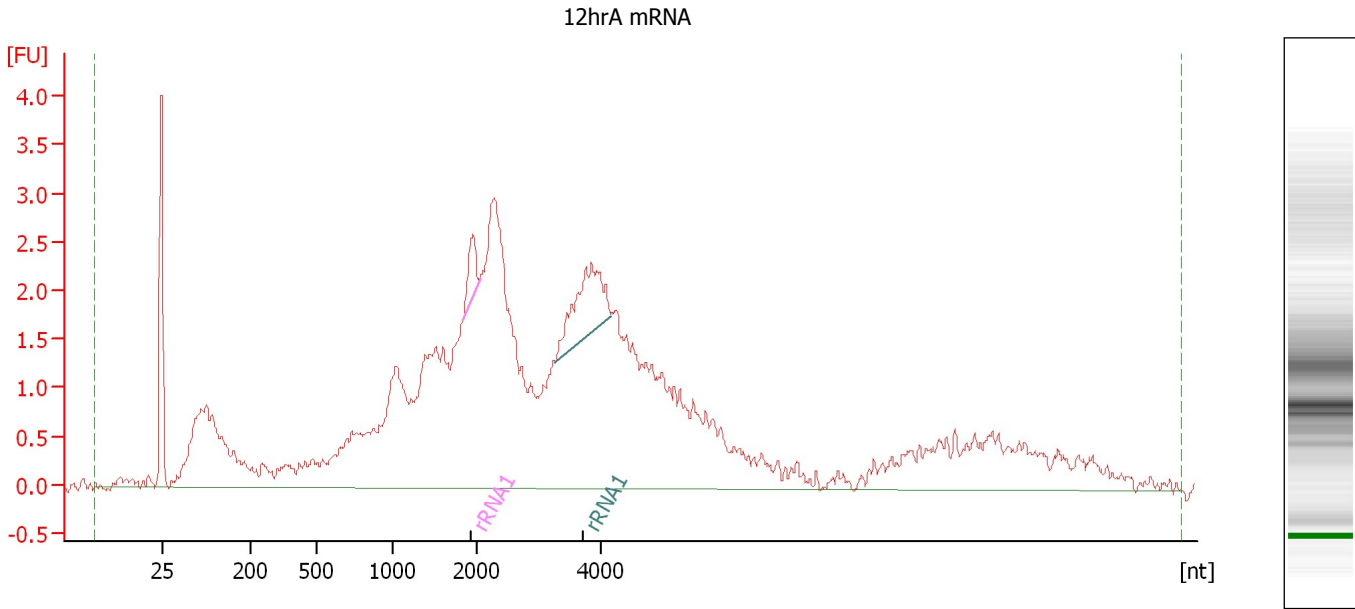
Overall Results for Ladder

RNA Area: 226.0 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12hrA mRNA

RNA Area: 100.4 rRNA Contamination: 3.9 %
RNA Concentration: 444 pg/μl

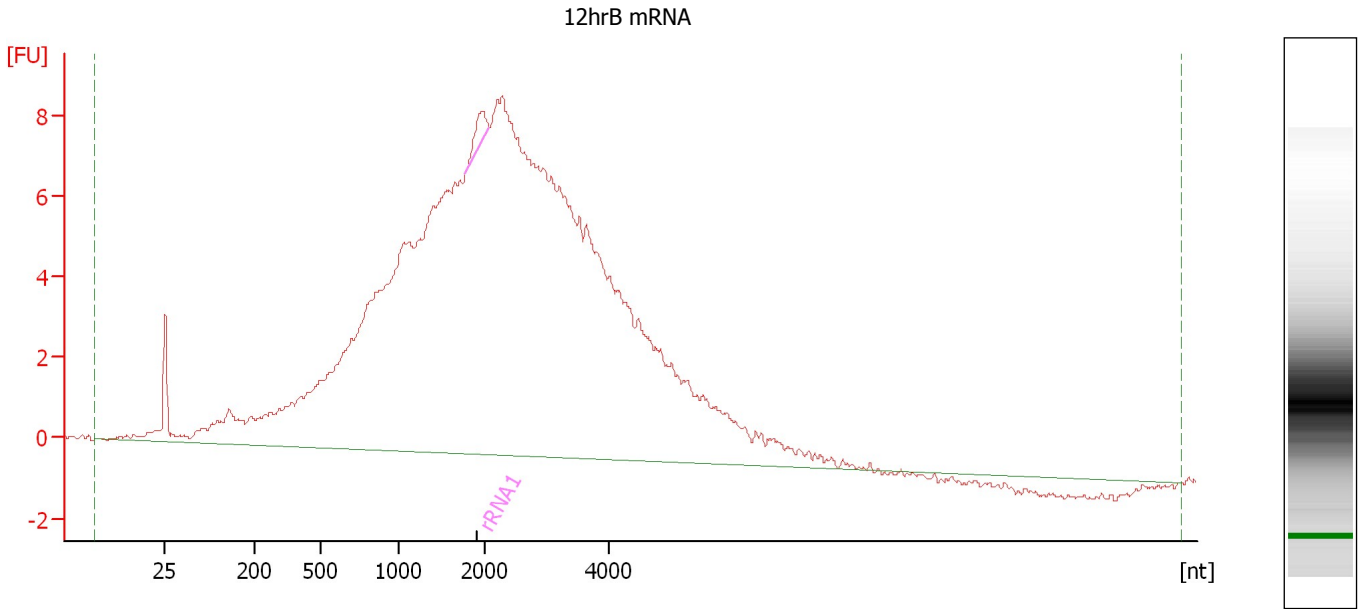
Fragment table for sample 1 : 12hrA mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,829	2,051	0.9	0.9
rRNA1	3,248	4,149	3.0	3.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 12hrB mRNA

RNA Area: 328.4 rRNA Contamination: 0.5 %
RNA Concentration: 1,453 pg/μl

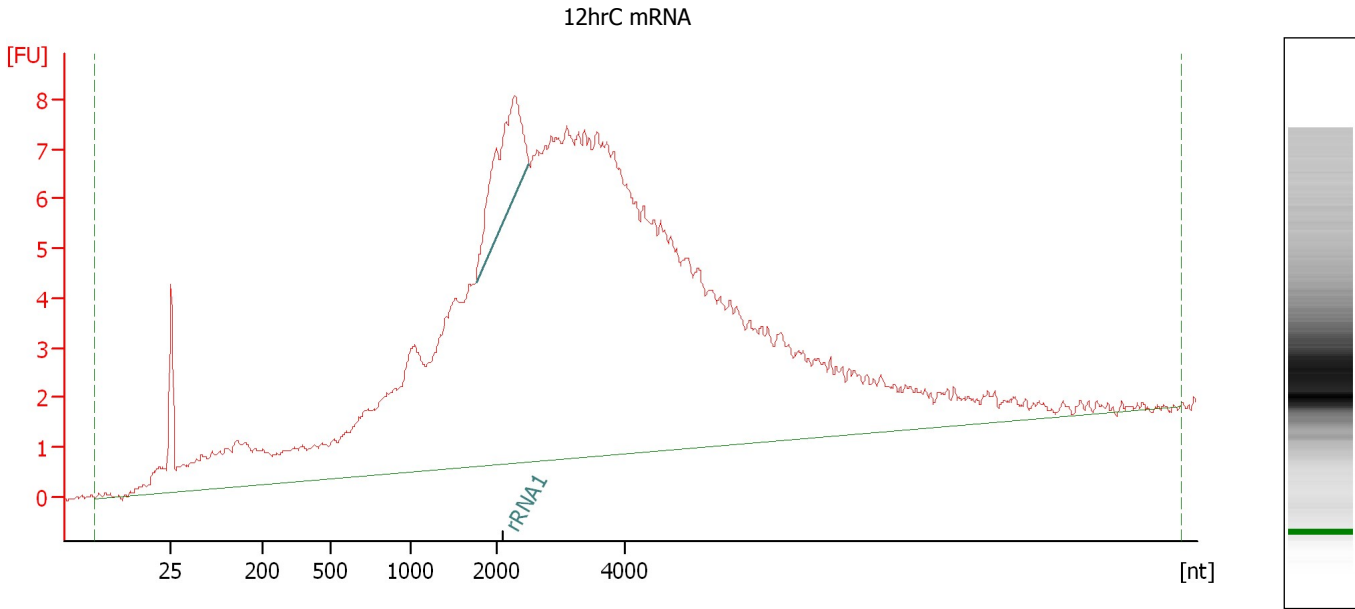
Fragment table for sample 2 : 12hrB mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,784	2,090	1.6	0.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 12hrC mRNA

RNA Area: 298.6 rRNA Contamination: 3.5 %
RNA Concentration: 1,321 pg/μl

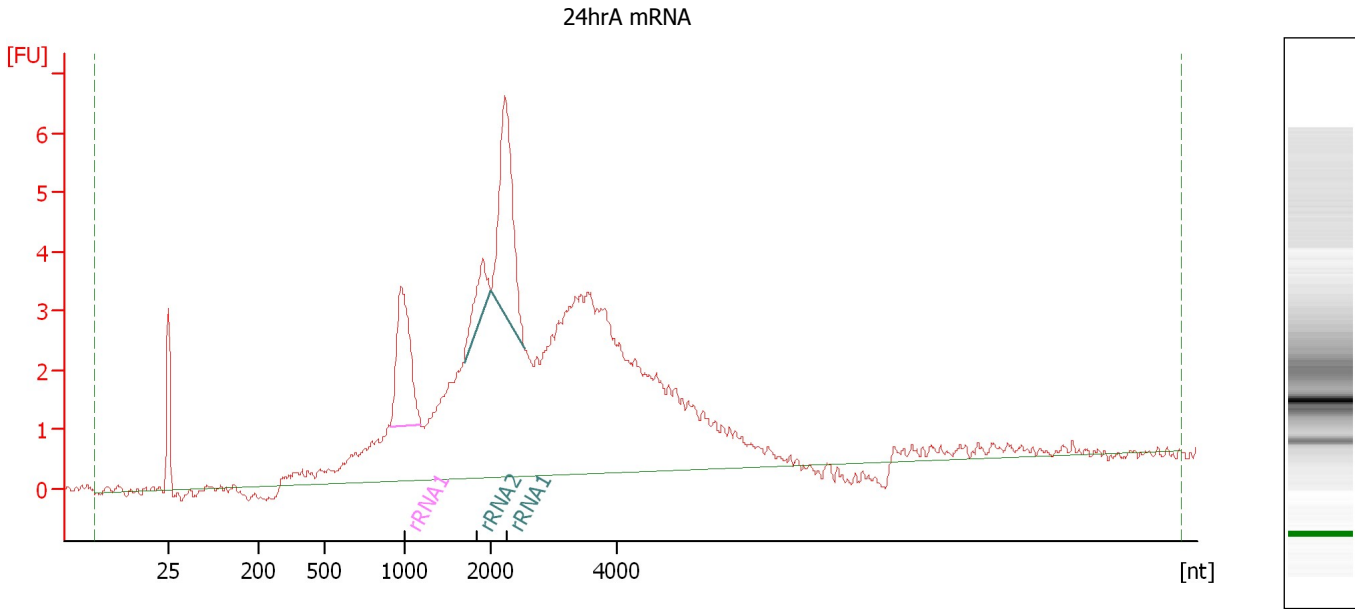
Fragment table for sample 3 : 12hrC mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,762	2,515	10.3	3.5

Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
 Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 24hrA mRNA

RNA Area: 119.1 rRNA Contamination: 14.3 %
 RNA Concentration: 527 pg/μl

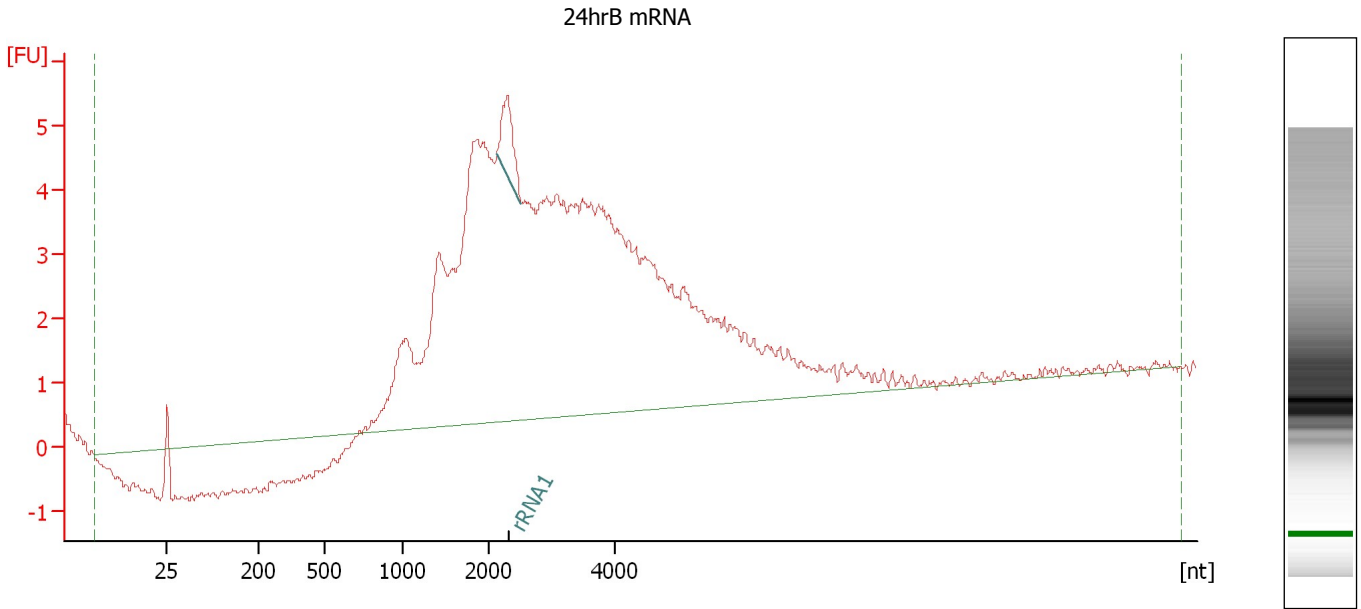
Fragment table for sample 4 : 24hrA mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	911	1,191	6.5	5.5
rRNA2	1,694	2,001	2.0	1.6
rRNA1	2,014	2,544	8.5	7.1

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 24hrB mRNA

RNA Area: 139.8 rRNA Contamination: 1.7 %
RNA Concentration: 619 pg/μl

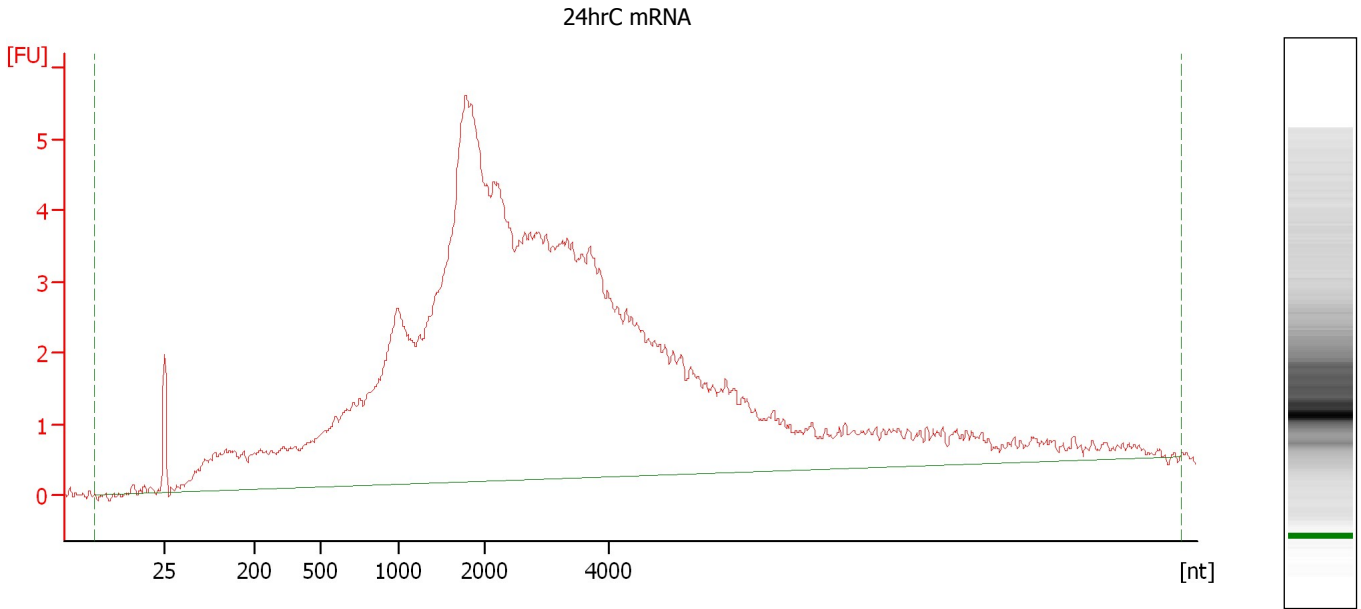
Fragment table for sample 5 : 24hrB mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	2,128	2,520	2.4	1.7

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



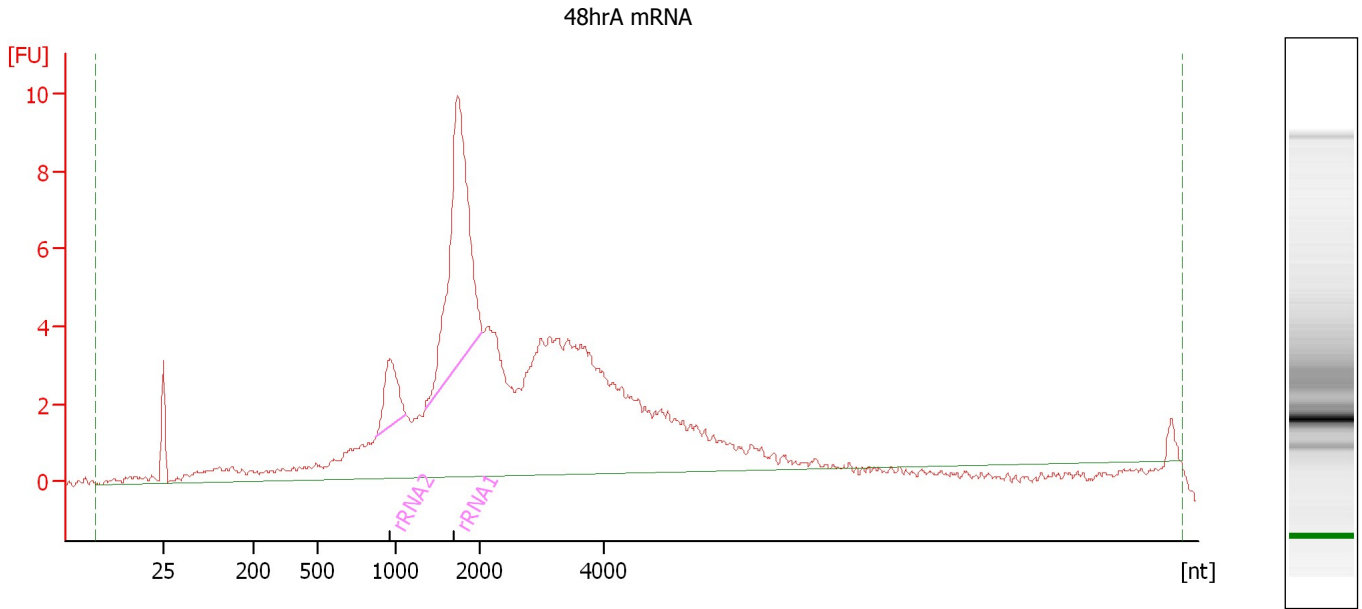
Overall Results for sample 6 : 24hrC mRNA

RNA Area: 183.2 rRNA Contamination: 0.0 %
RNA Concentration: 811 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 48hrA mRNA

RNA Area: 167.5 rRNA Contamination: 17.3 %
RNA Concentration: 741 pg/μl

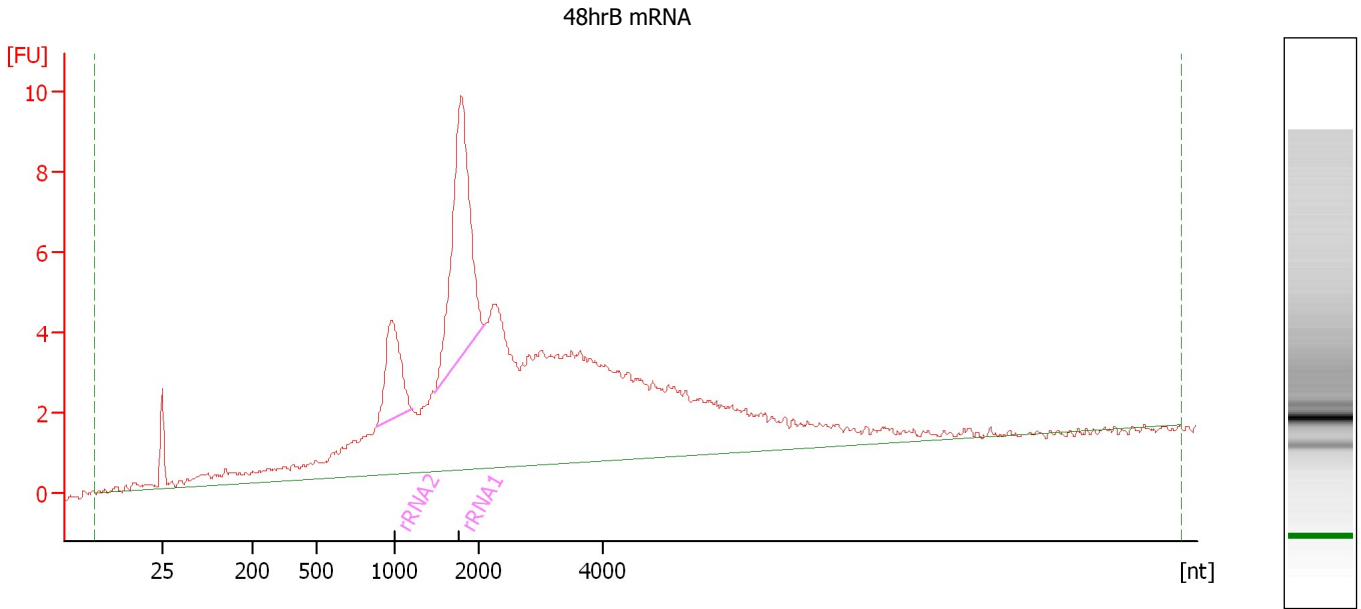
Fragment table for sample 7 : 48hrA mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	874	1,119	4.8	2.9
rRNA1	1,346	2,038	24.1	14.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 48hrB mRNA

RNA Area: 171.3 rRNA Contamination: 16.8 %
RNA Concentration: 758 pg/μl

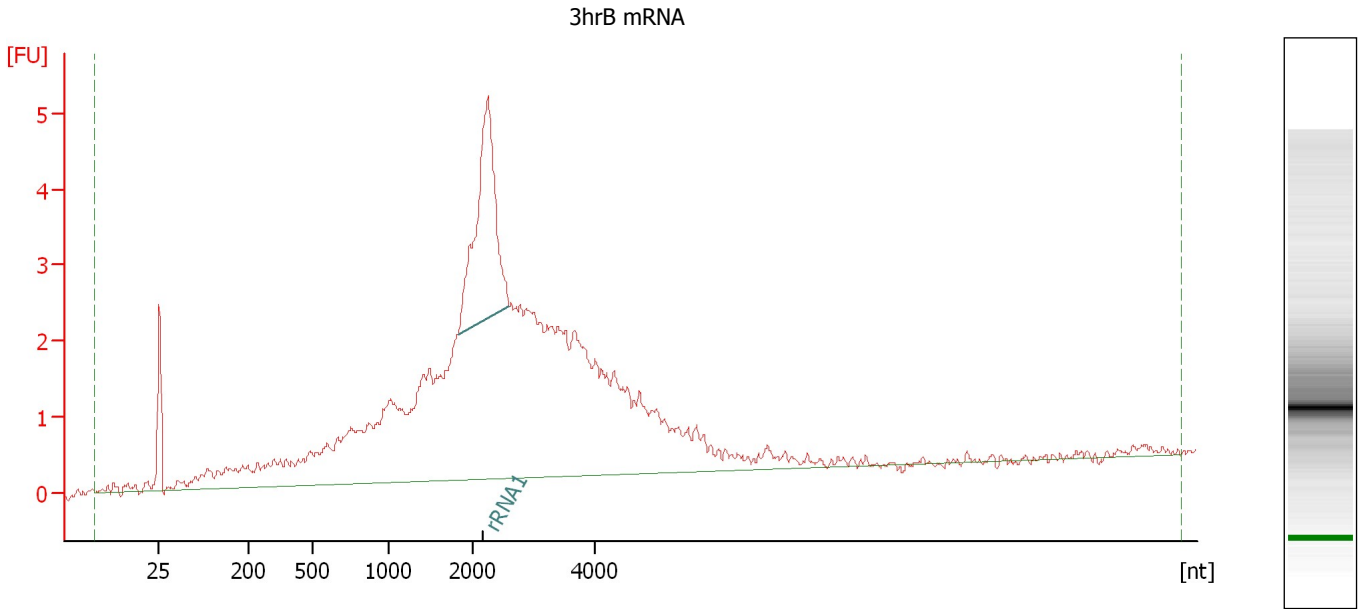
Fragment table for sample 8 : 48hrB mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	879	1,204	7.8	4.5
rRNA1	1,479	2,090	21.0	12.3

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 3hrB mRNA

RNA Area: 99.5 rRNA Contamination: 10.0 %
RNA Concentration: 440 pg/μl

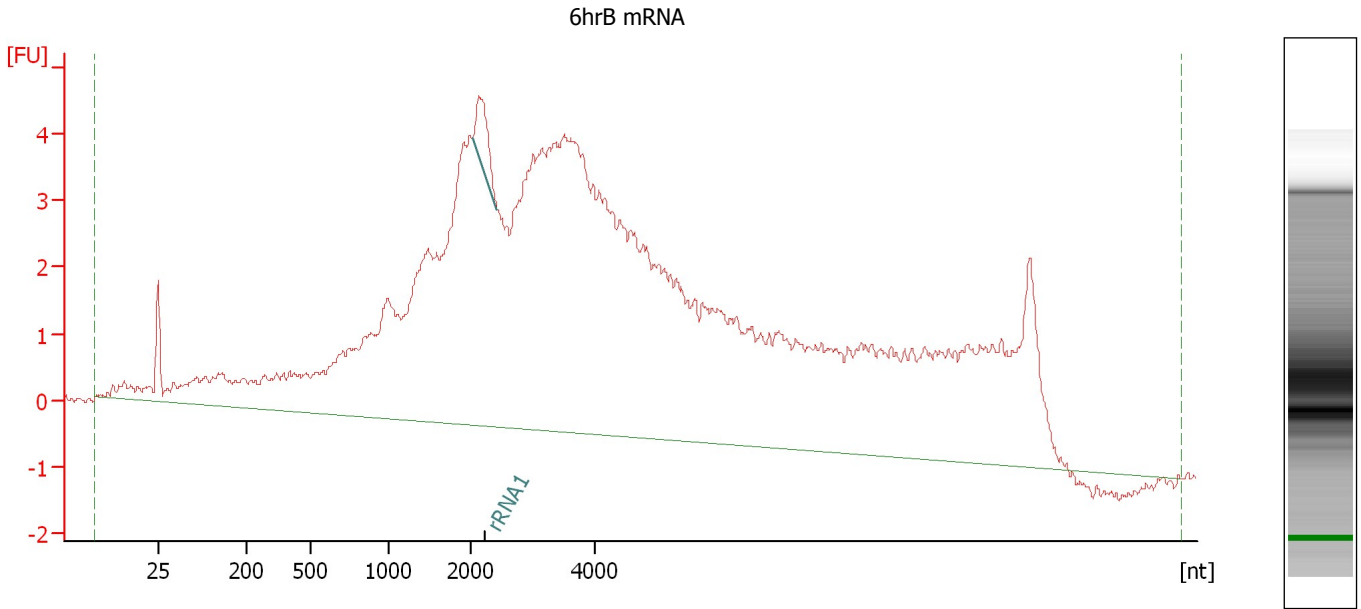
Fragment table for sample 9 : 3hrB mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,827	2,583	9.9	10.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 6hrB mRNA

RNA Area: 235.0 rRNA Contamination: 0.9 %
RNA Concentration: 1,040 pg/μl

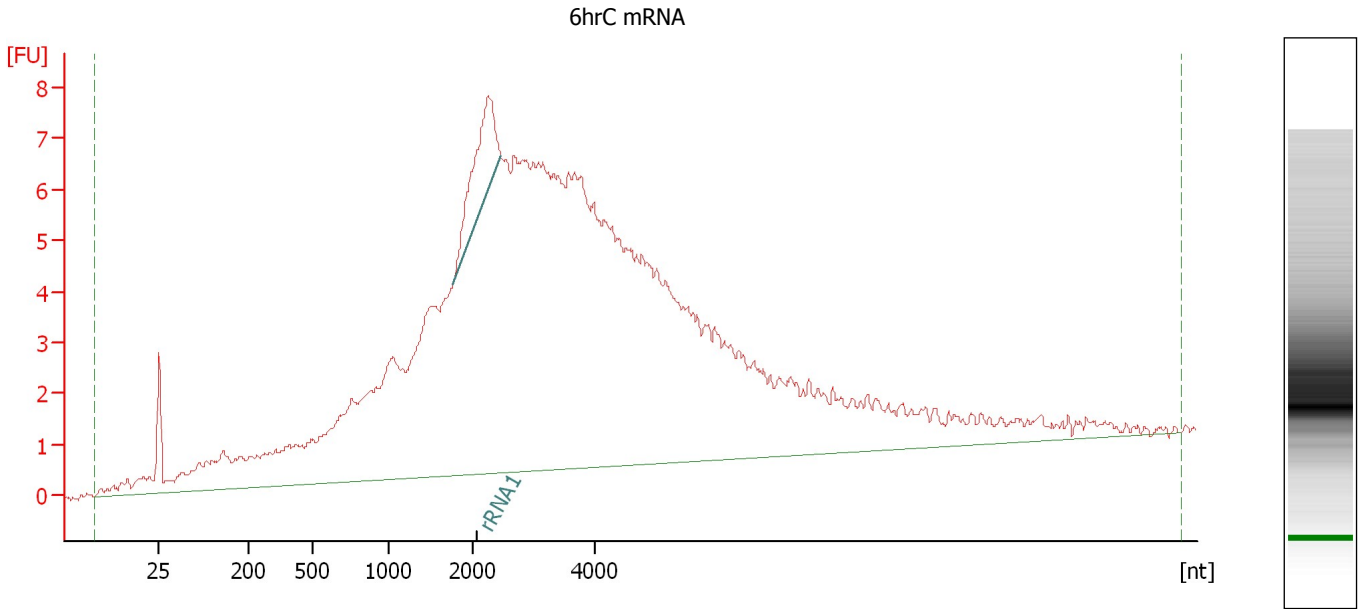
Fragment table for sample 10 : 6hrB mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	2,038	2,428	2.0	0.9

Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
 Modified: 3/9/2017 10:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 6hrC mRNA

RNA Area: 289.3 rRNA Contamination: 2.6 %
 RNA Concentration: 1,280 pg/μl

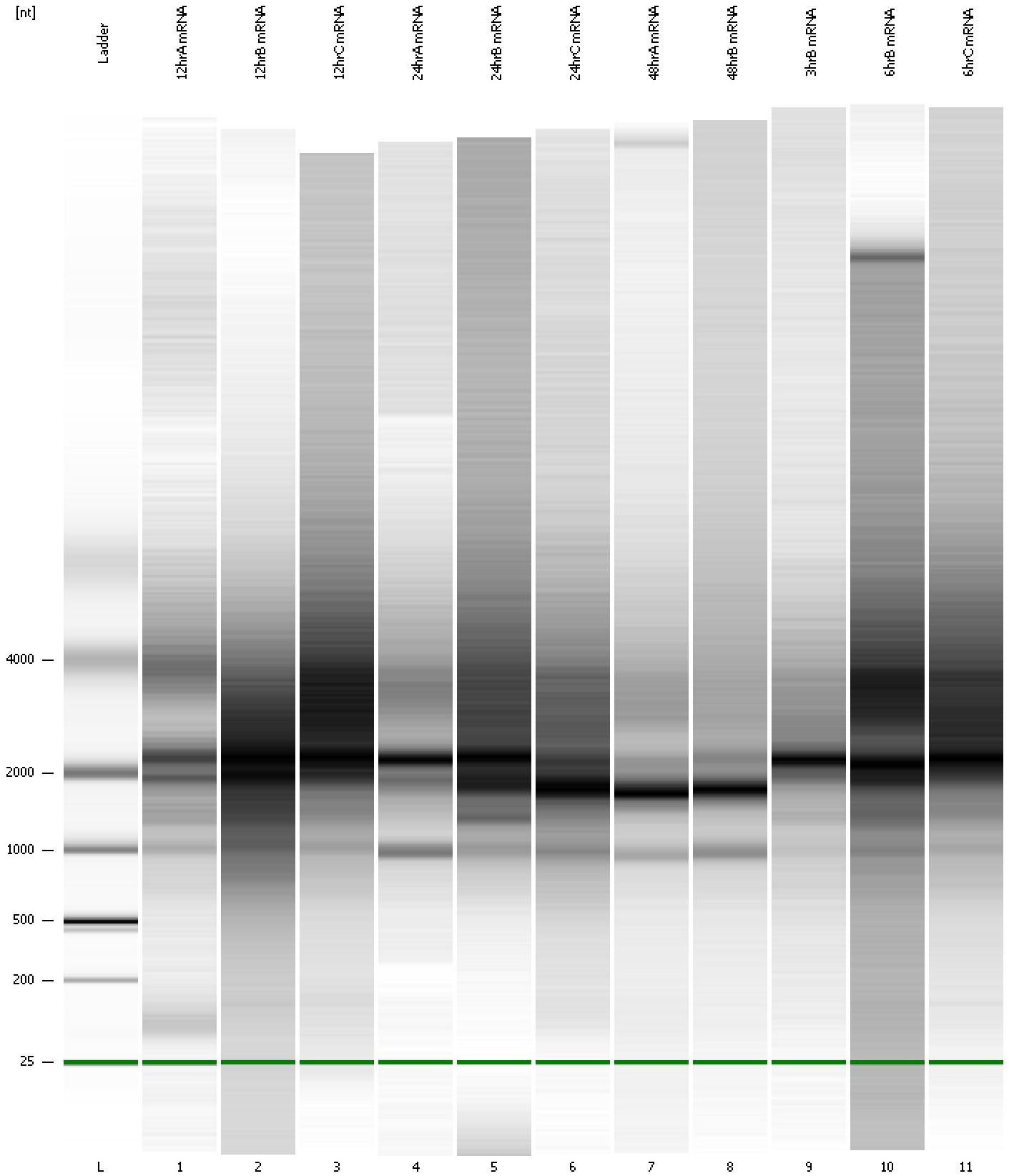
Fragment table for sample 11 : 6hrC mRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,769	2,453	7.5	2.6

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
Modified: 3/9/2017 10:29:13 AM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad

Created: 3/9/2017 10:03:17 AM
 Modified: 3/9/2017 10:29:13 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/9/2017 10:29:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-09\2017-03-09_001.xad)		Instrument	Run		3/9/2017 10:03:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/9/2017 10:03:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/9/2017 10:03:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/9/2017 10:03:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/9/2017 10:03:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/9/2017 10:03:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/9/2017 10:03:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1