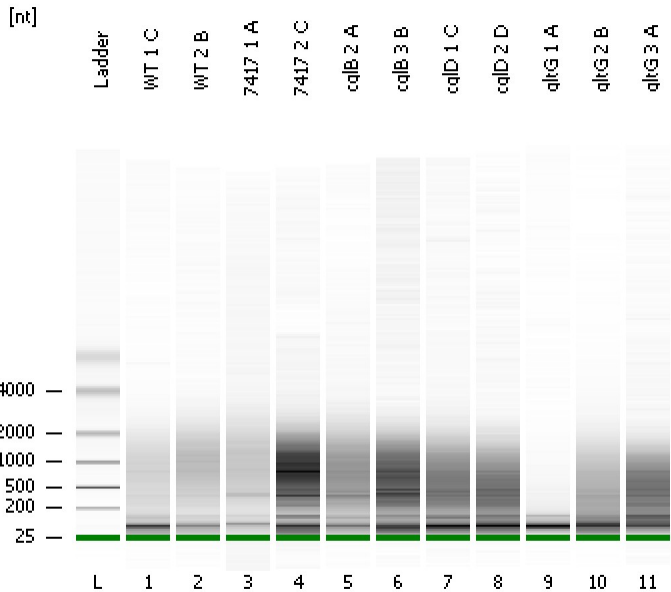


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

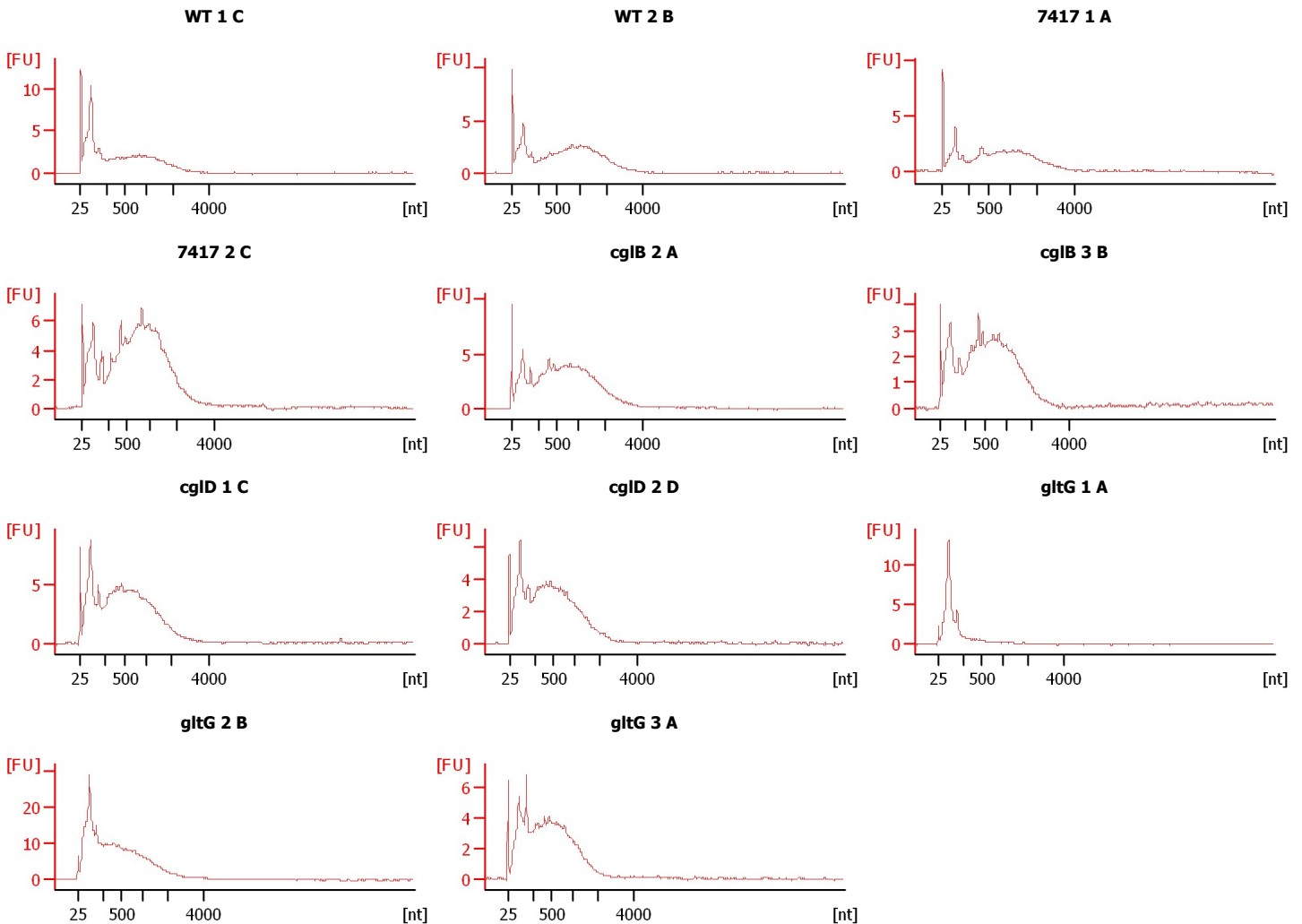
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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

© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT 1 C		✓		
WT 2 B		✓		
7417 1 A		✓		
7417 2 C		✓		
cglB 2 A		✓		
cglB 3 B		✓		
cglD 1 C		✓		
cglD 2 D		✓		
gltG 1 A		✓		
gltG 2 B		✓		
gltG 3 A		✓		
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 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

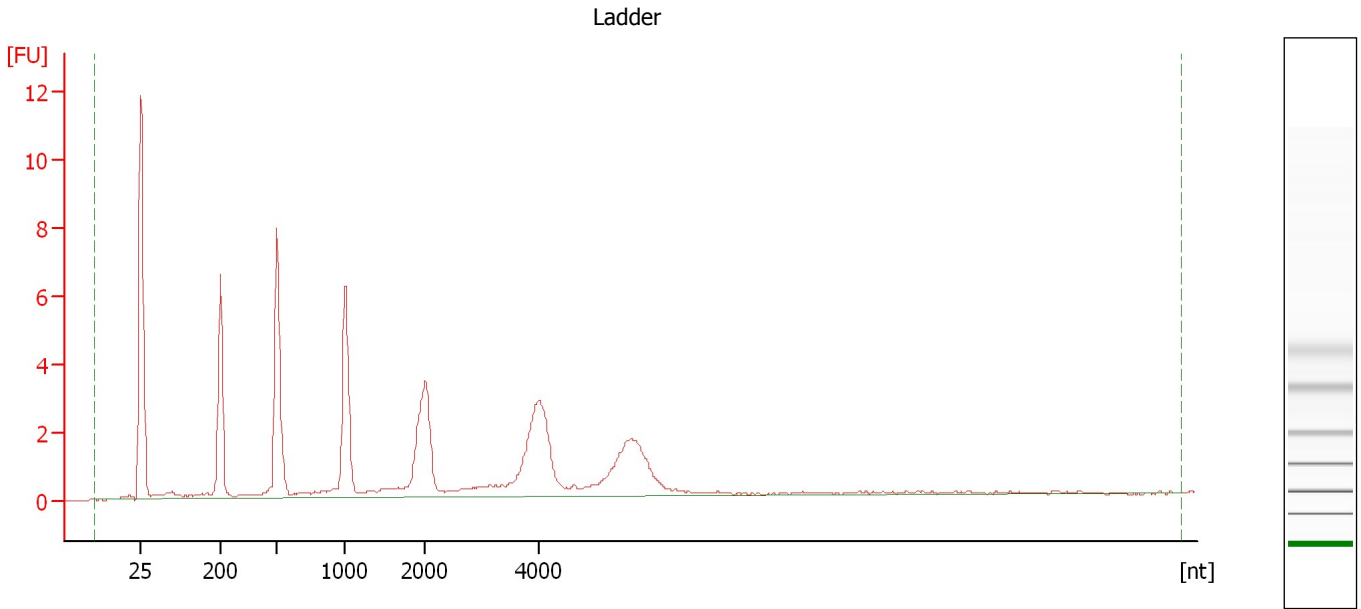
Ladder

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\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary



Overall Results for Ladder

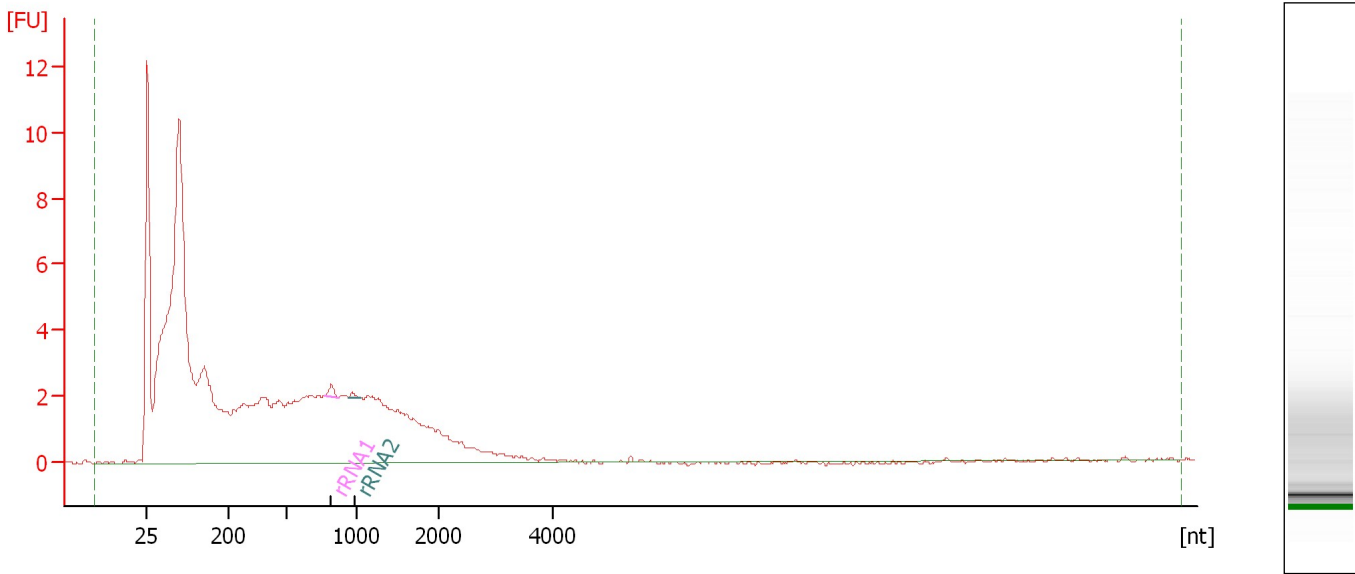
RNA Area: 70.3 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...

WT 1 C



Overall Results for sample 1 : WT 1 C

RNA Area: 165.8 rRNA Contamination: 0.4 %
RNA Concentration: 2,360 pg/μl

Fragment table for sample 1 : WT 1 C

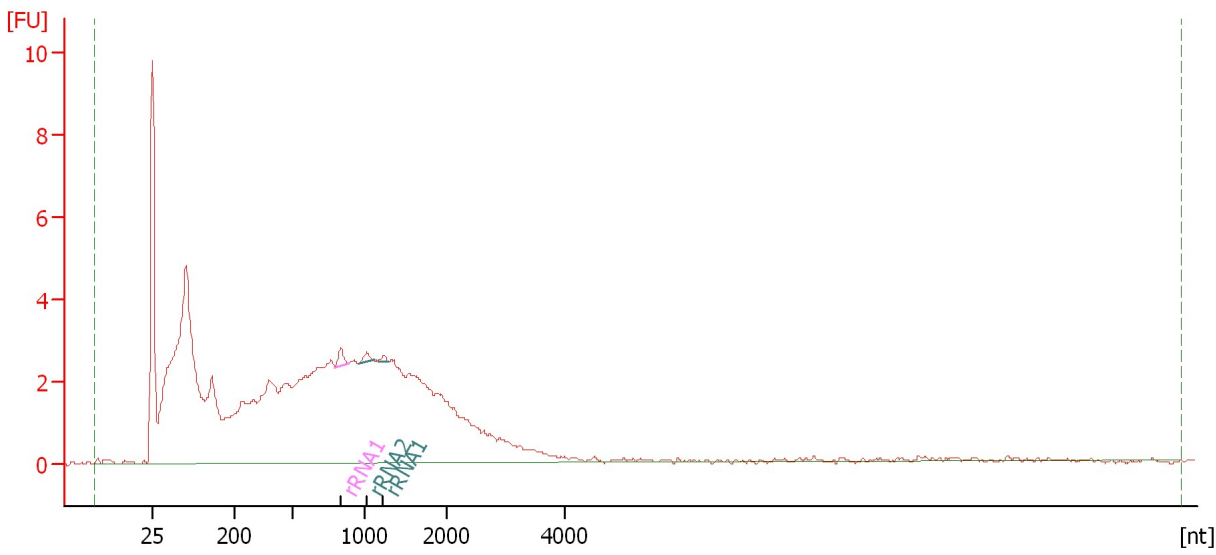
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	775	877	0.4	0.3
rRNA2	951	1,053	0.2	0.1

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...

WT 2 B



Overall Results for sample 2 : WT 2 B

RNA Area: 150.5 rRNA Contamination: 0.6 %
RNA Concentration: 2,142 pg/μl

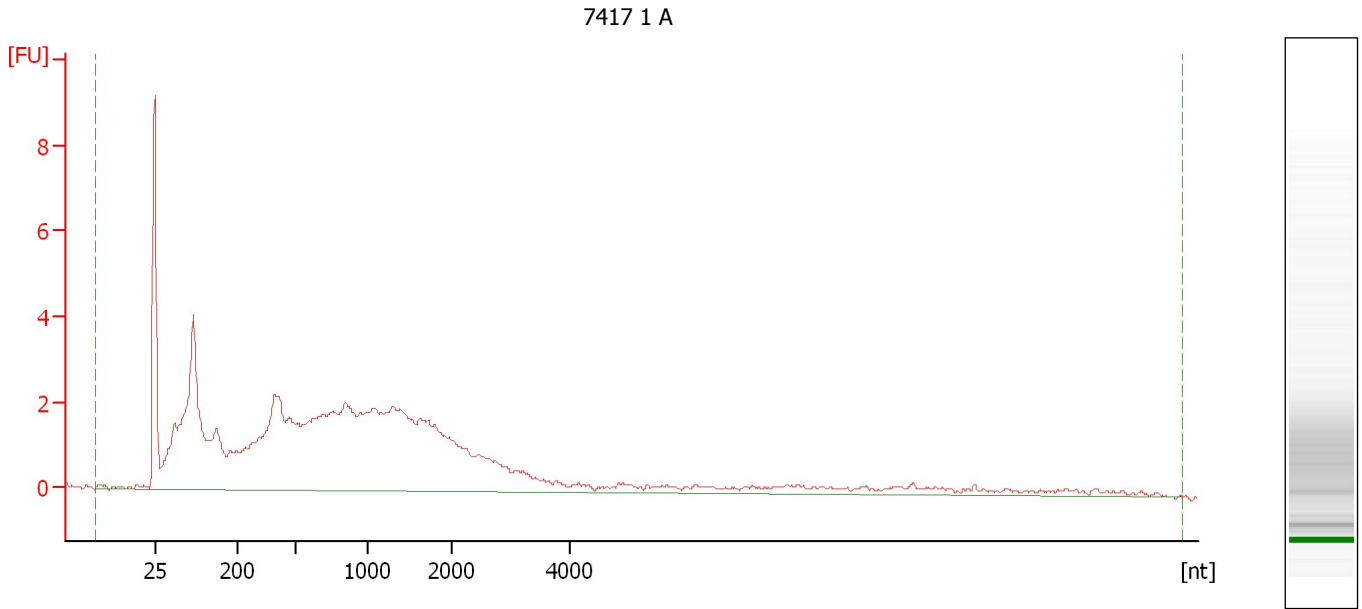
Fragment table for sample 2 : WT 2 B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	795	890	0.5	0.4
rRNA2	969	1,119	0.3	0.2
rRNA1	1,167	1,291	0.1	0.1

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...



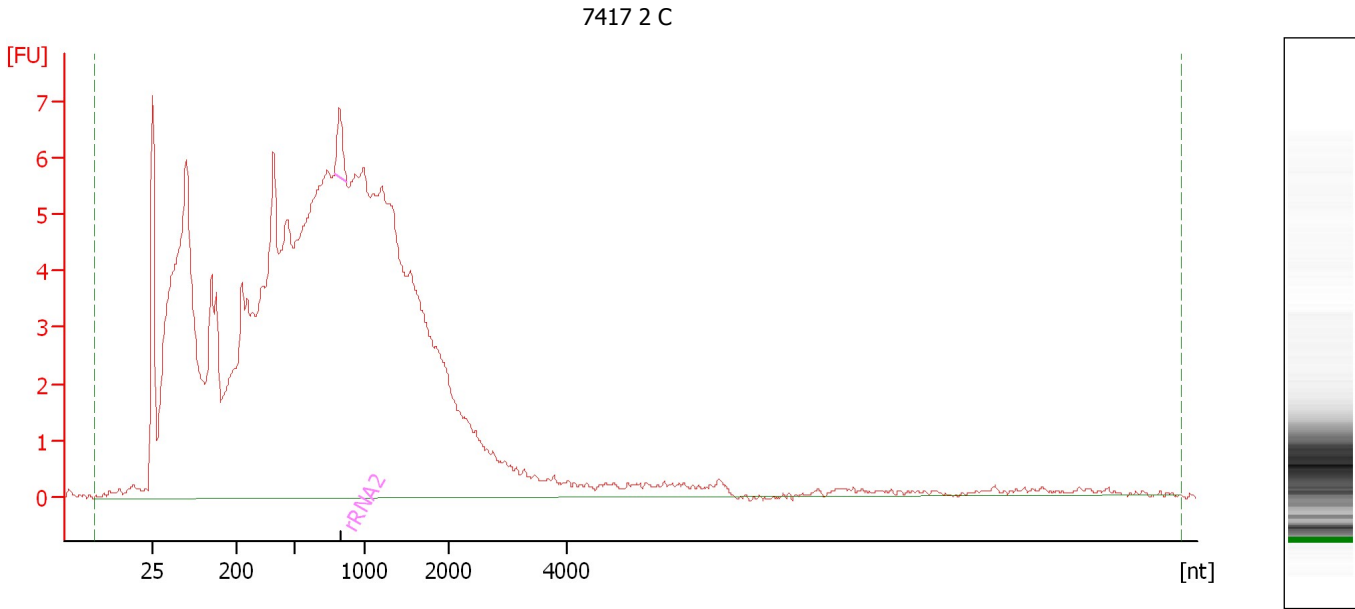
Overall Results for sample 3 : 7417 1 A

RNA Area:	121.7	rRNA Contamination:	0.0 %
RNA Concentration:	1,732 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 7417 2 C

RNA Area: 285.6 rRNA Contamination: 0.5 %
RNA Concentration: 4,066 pg/μl

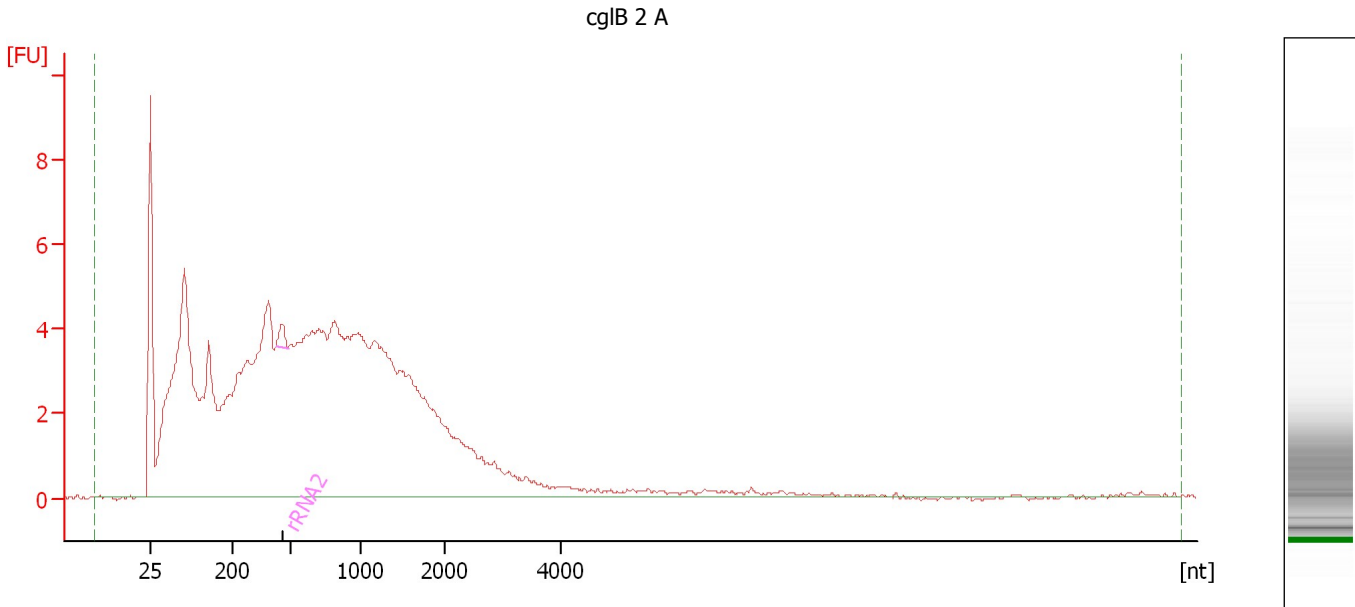
Fragment table for sample 4 : 7417 2 C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	786	870	1.5	0.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : cgIB 2 A

RNA Area: 223.9 rRNA Contamination: 0.4 %
RNA Concentration: 3,187 pg/μl

Fragment table for sample 5 : cgIB 2 A

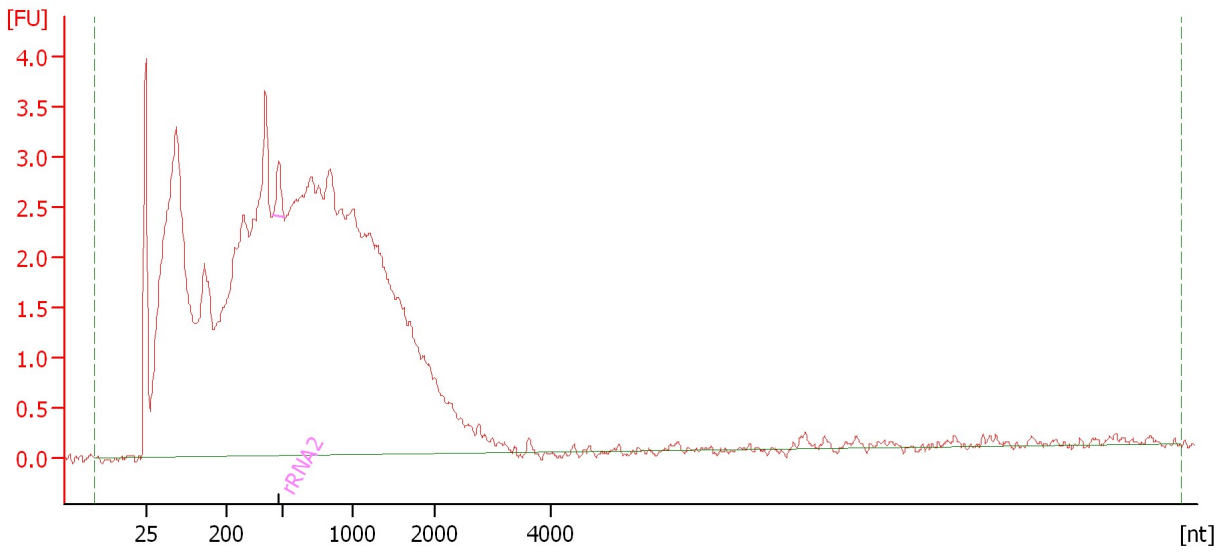
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	423	485	0.9	0.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...

cgIB 3 B



Overall Results for sample 6 : cgIB 3 B

RNA Area: 139.6 rRNA Contamination: 0.5 %
RNA Concentration: 1,986 pg/μl

Fragment table for sample 6 : cgIB 3 B

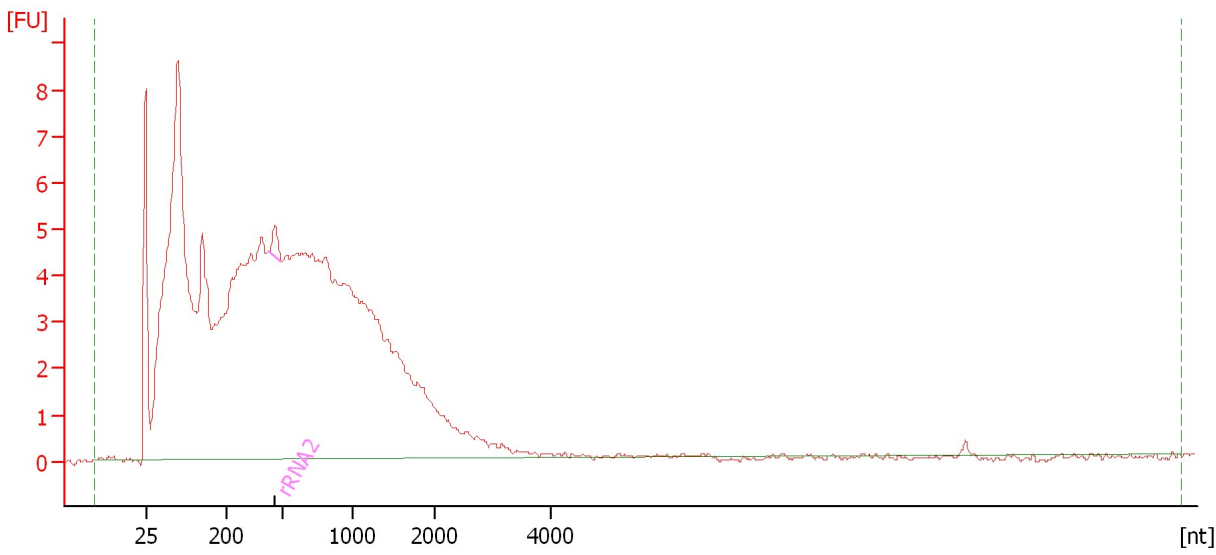
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	446	501	0.6	0.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...

cgID 1 C



Overall Results for sample 7 : cgID 1 C

RNA Area: 247.9 rRNA Contamination: 0.4 %
RNA Concentration: 3,528 pg/μl

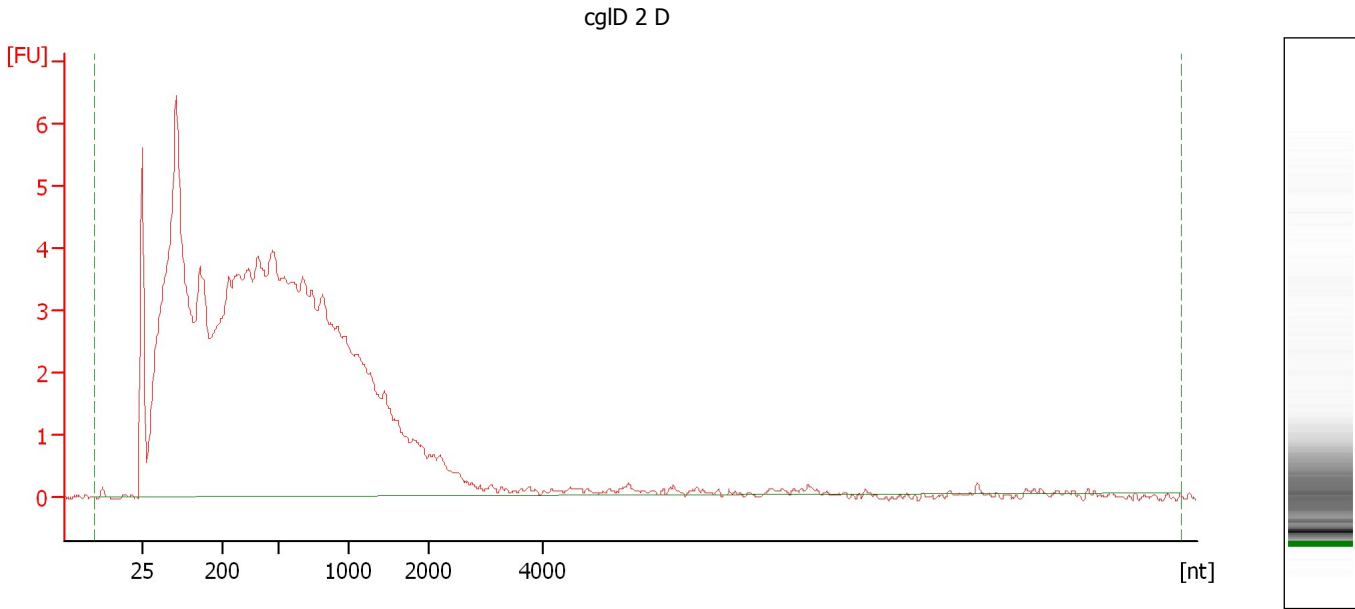
Fragment table for sample 7 : cgID 1 C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	421	488	0.9	0.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...



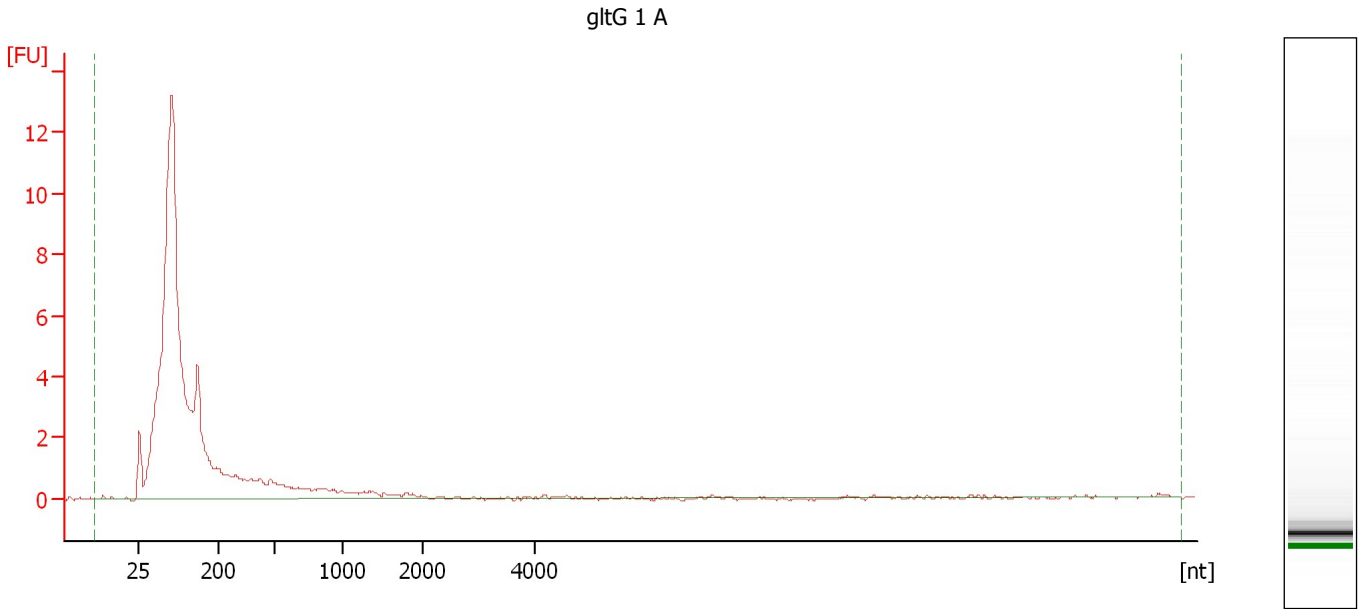
Overall Results for sample 8 : cgID 2 D

RNA Area:	195.3	rRNA Contamination:	0.0 %
RNA Concentration:	2,780 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...



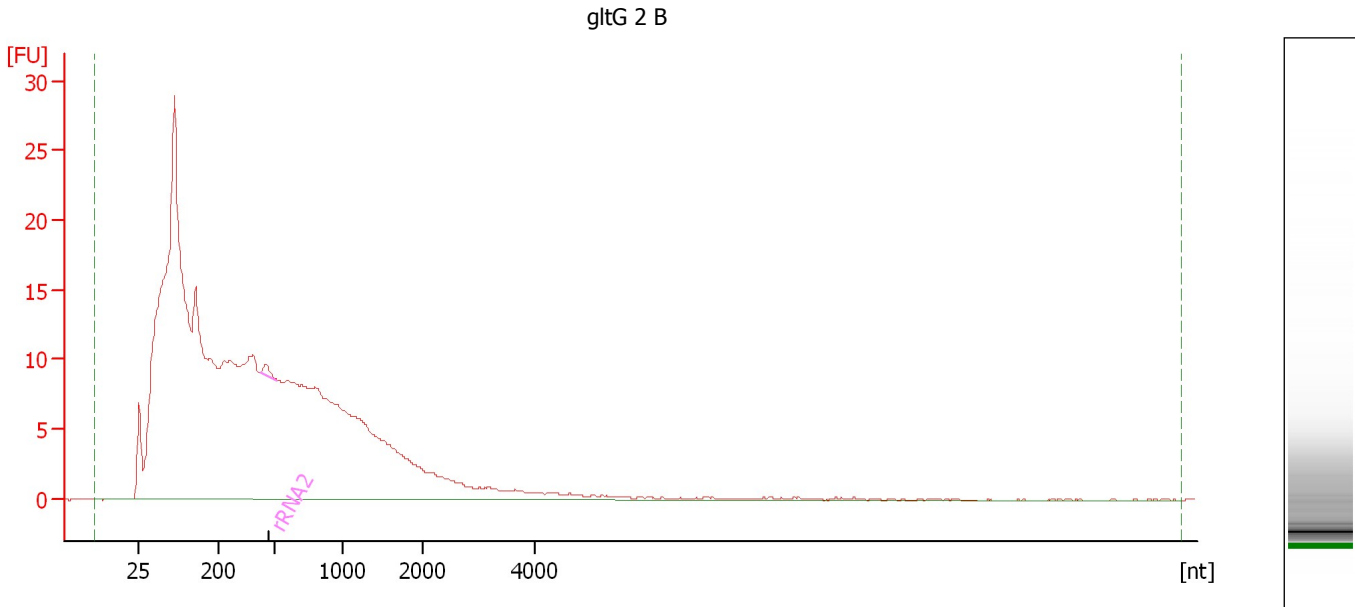
Overall Results for sample 9 : gltG 1 A

RNA Area:	110.8	rRNA Contamination:	0.0 %
RNA Concentration:	1,577 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : gltG 2 B

RNA Area: 638.1 rRNA Contamination: 0.2 %
RNA Concentration: 9,083 pg/μl

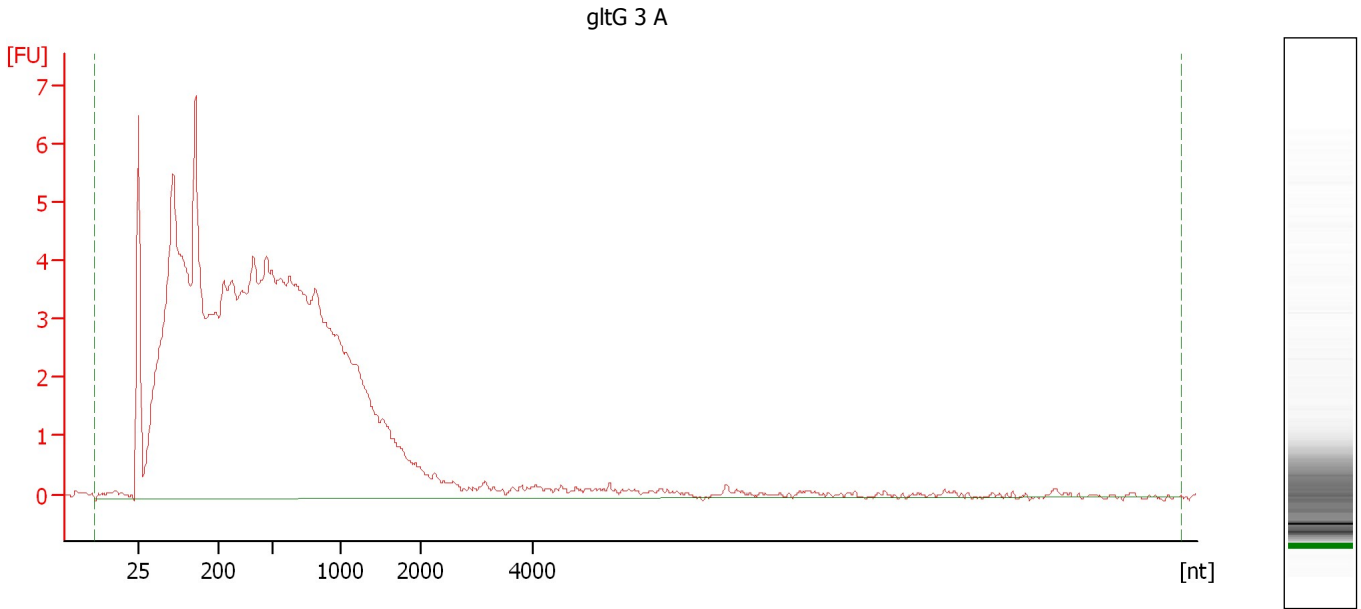
Fragment table for sample 10 : gltG 2 B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	426	516	1.3	0.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Electropherogram Summary Continued ...



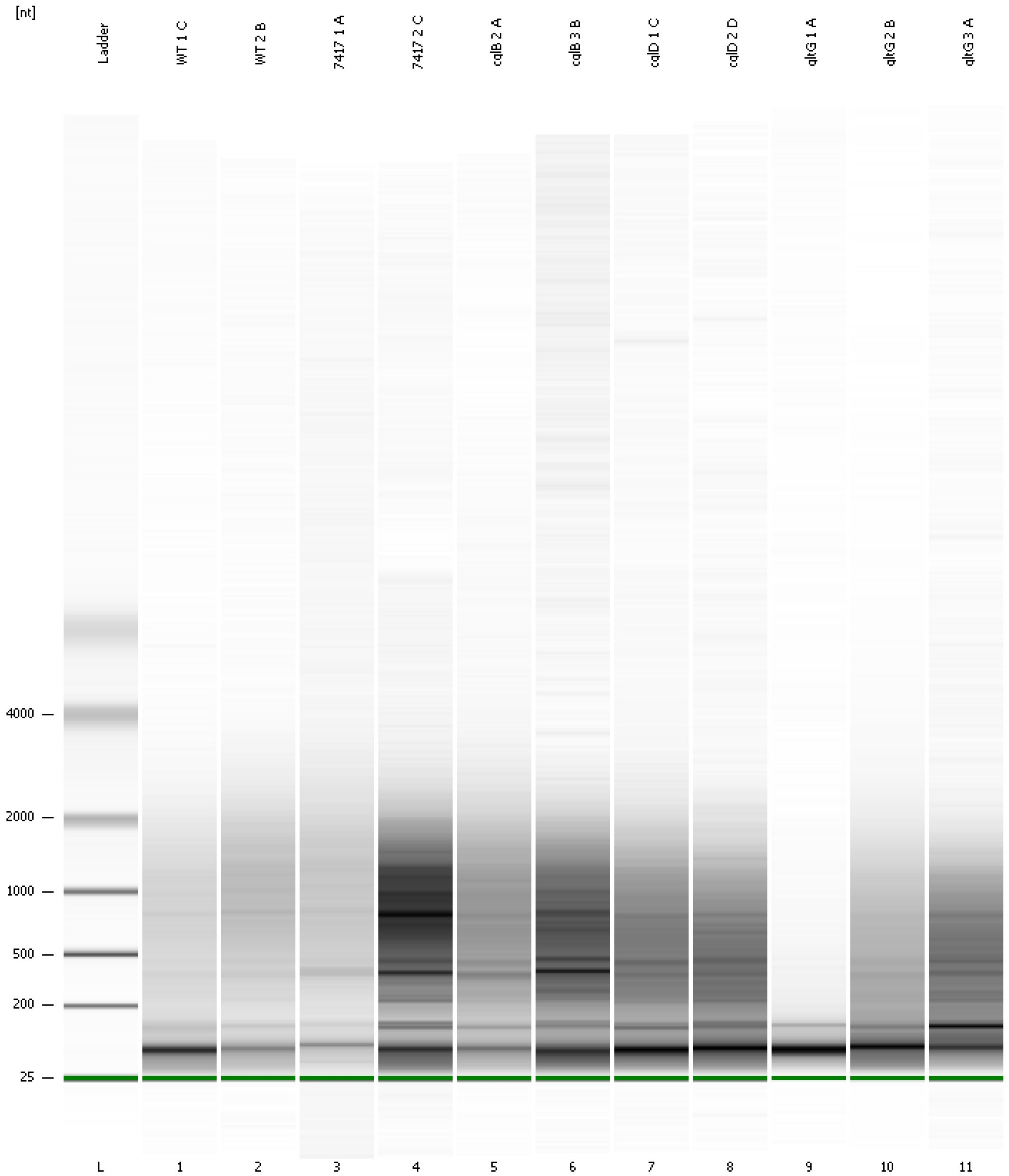
Overall Results for sample 11 : gltG 3 A

RNA Area: 205.2 rRNA Contamination: 0.0 %
RNA Concentration: 2,921 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Gel Image

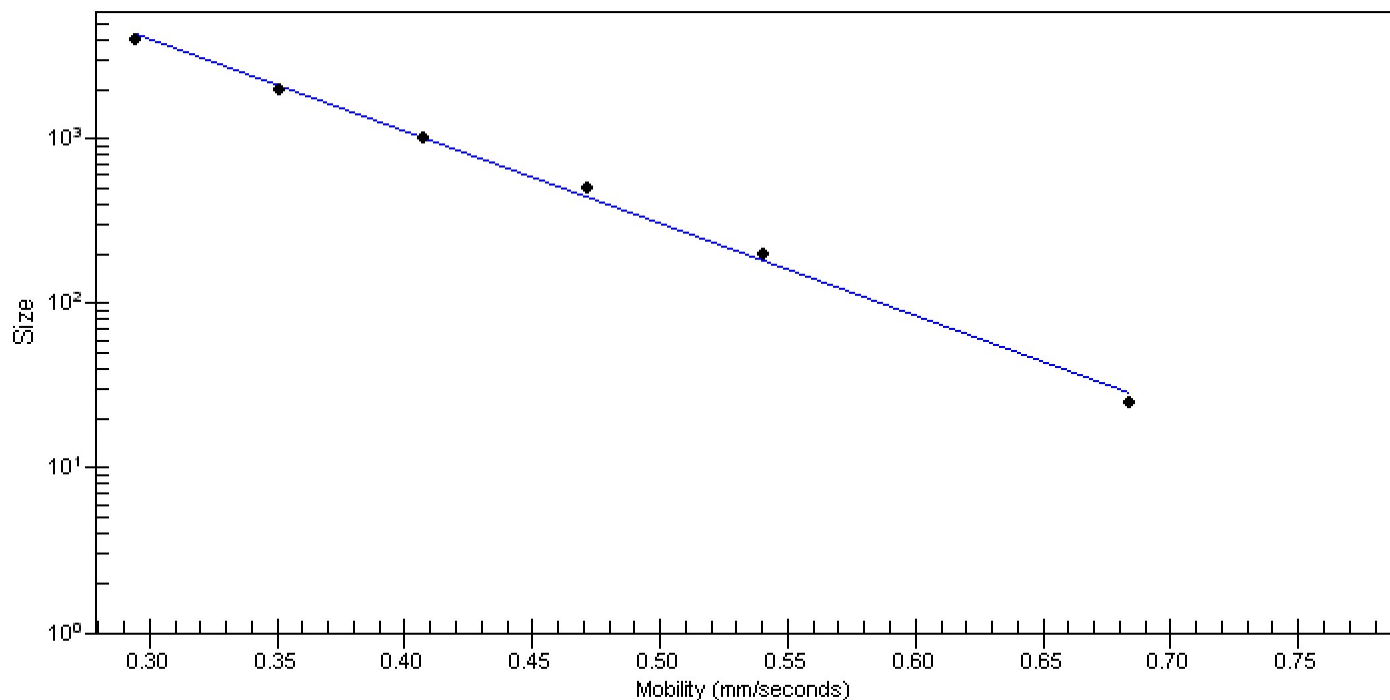


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
Modified: 4/22/2016 11:57:07 AM

Curves

Standard Curve



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_002.xad

Created: 4/22/2016 11:31:11 AM
 Modified: 4/22/2016 11:57:07 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		4/22/2016 11:57:05 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\2016-04-22\2016-04-22_002.xad)		Instrument	Run		4/22/2016 11:31:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/22/2016 11:31:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/22/2016 11:31:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/22/2016 11:31:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/22/2016 11:31:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/22/2016 11:31:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/22/2016 11:31:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1