

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
Modified: 5/6/2016 10:53:29 AM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

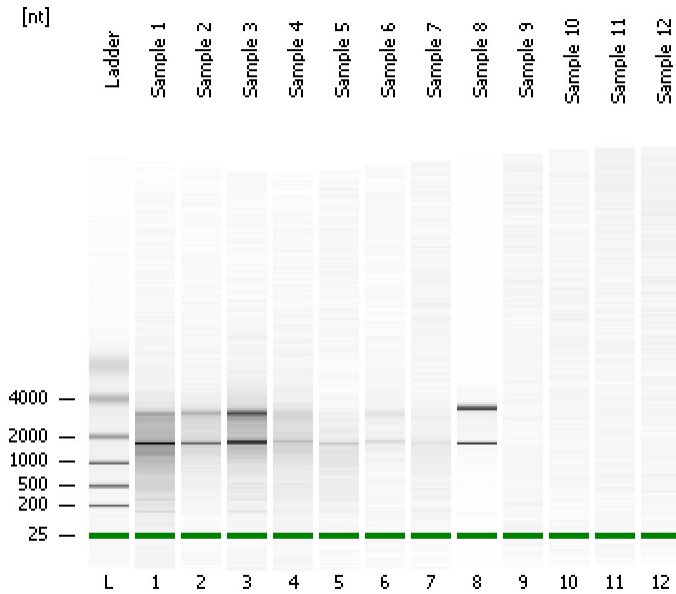
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

Assay Class: mRNA Nano
Version: 2.5
Assay Comments: mRNA Analysis ng sensitivity

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Chip Information:

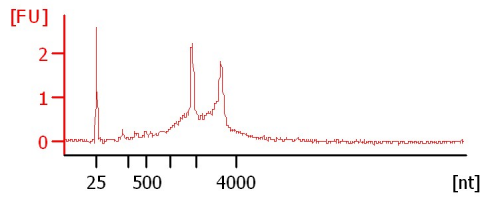
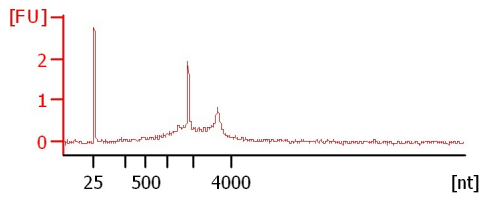
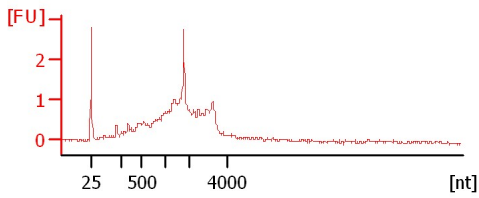
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



Sample 1

Sample 2

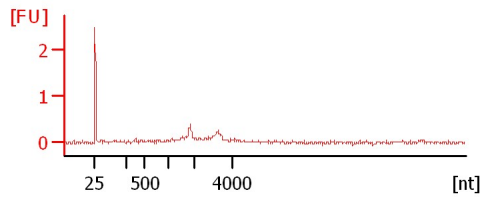
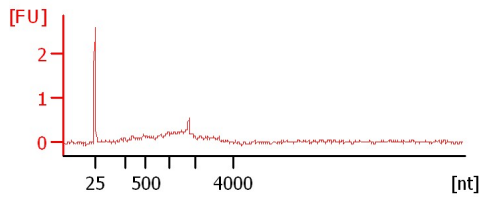
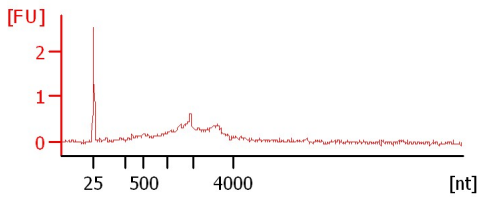
Sample 3



Sample 4

Sample 5

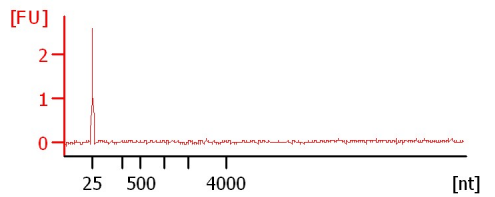
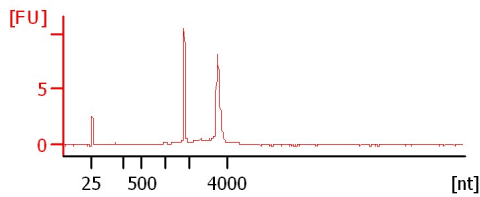
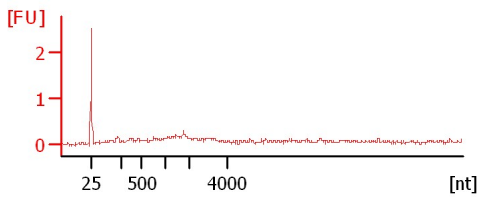
Sample 6



Sample 7

Sample 8

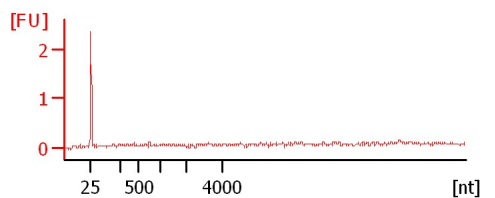
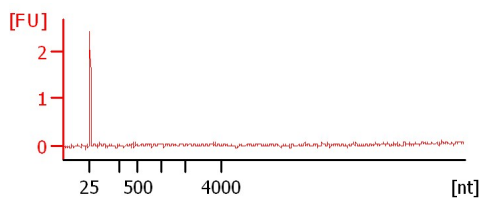
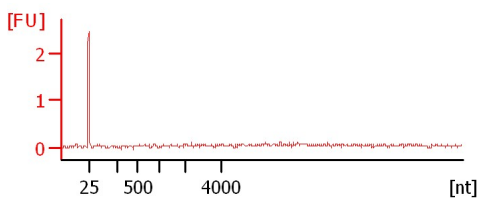
Sample 9



Sample 10

Sample 11

Sample 12



Assay Class: mRNA Nano
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓		
Sample 2		✓		
Sample 3		✓		
Sample 4		✓		
Sample 5		✓		
Sample 6		✓		
Sample 7		✓		
Sample 8		✓		
Sample 9		✓		
Sample 10		✓		
Sample 11		✓		
Sample 12		✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

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Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13

Minimum Visible Range [s] : 14

Maximum Visible Range [s] : 85

Start Analysis Time Range [s] : 15

End Analysis Time Range [s] : 84

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] : 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

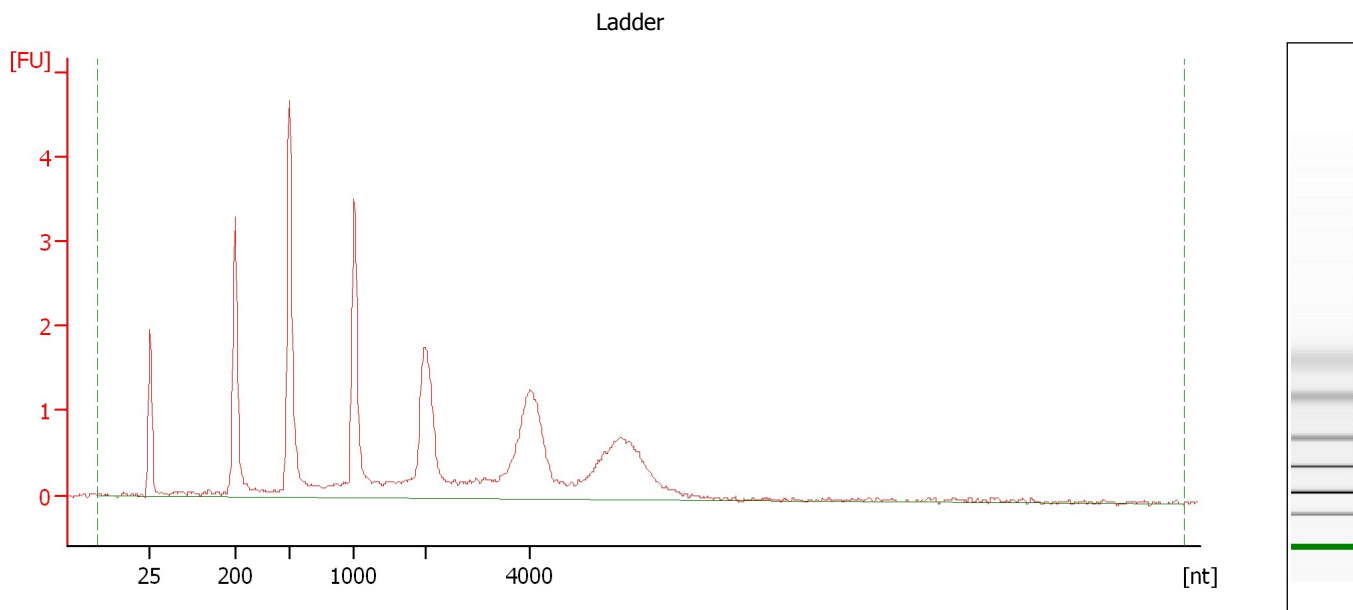
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

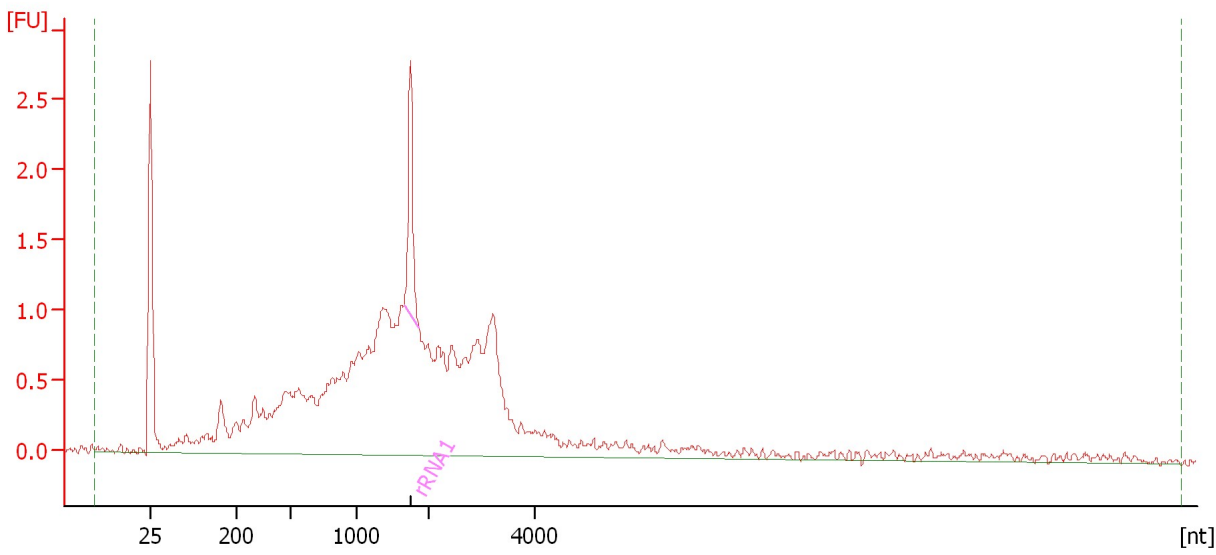
RNA Area: 39.5 RNA Concentration: 150 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

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Electropherogram Summary Continued ...

Sample 1



Overall Results for sample 1 : Sample 1

RNA Area: 40.3 rRNA Contamination: 4.1 %
RNA Concentration: 153 ng/μl

Fragment table for sample 1 : Sample 1

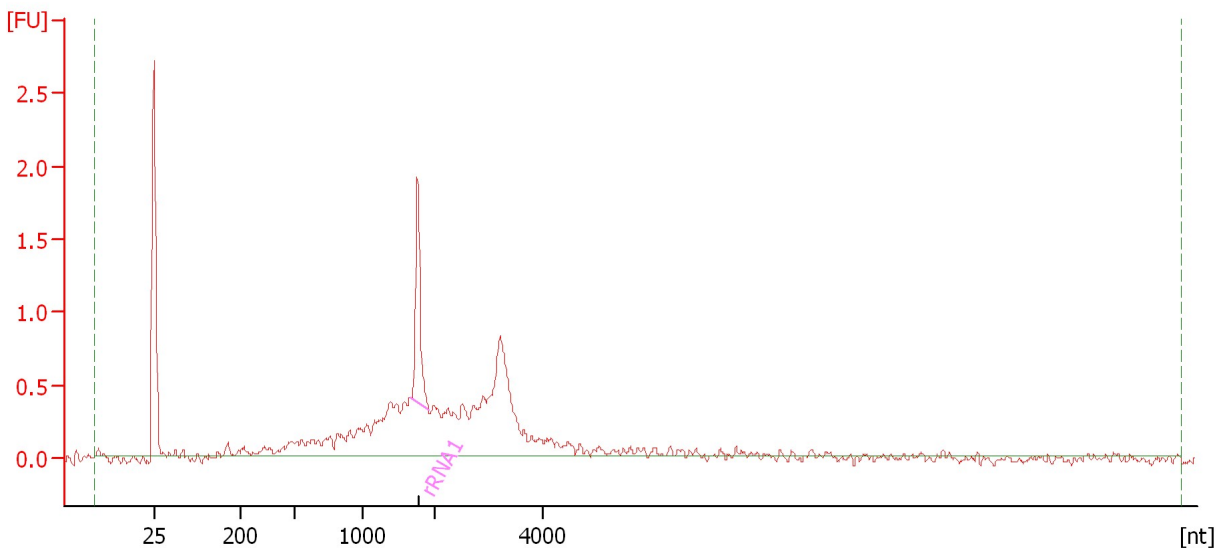
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,659	1,871	1.7	4.1

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

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Electropherogram Summary Continued ...

Sample 2



Overall Results for sample 2 : Sample 2

RNA Area: 14.7 rRNA Contamination: 9.7 %
RNA Concentration: 56 ng/μl

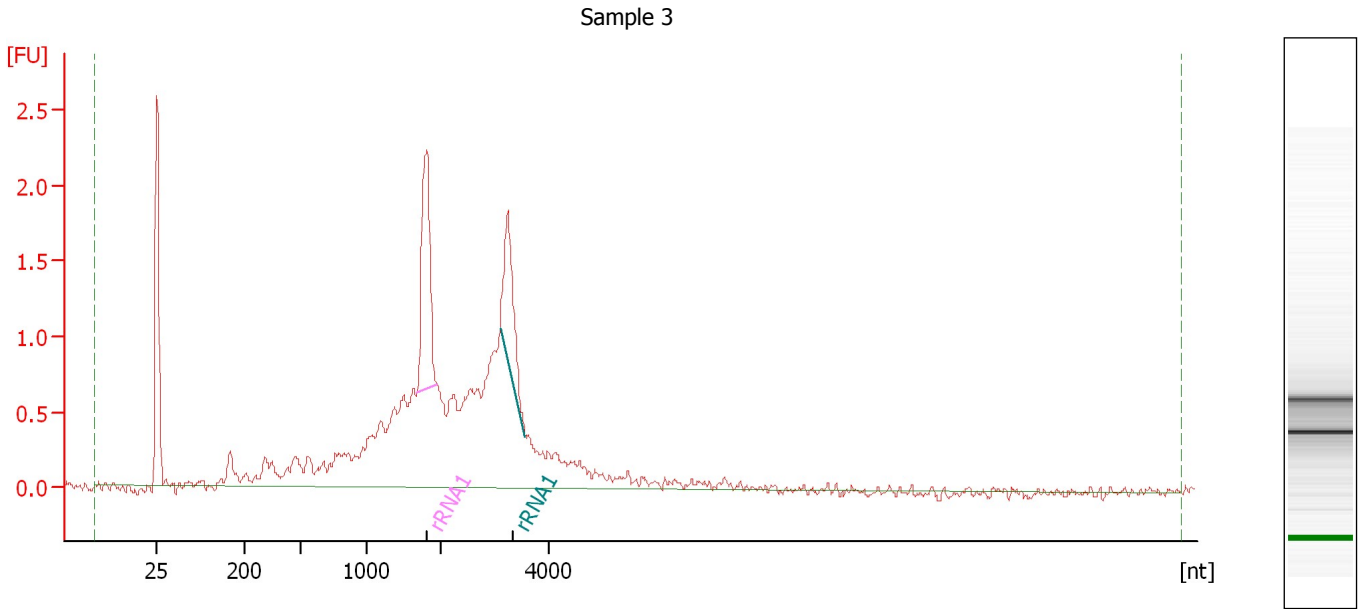
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,678	1,921	1.4	9.7

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area: 27.2 rRNA Contamination: 15.5 %
RNA Concentration: 103 ng/μl

Fragment table for sample 3 : Sample 3

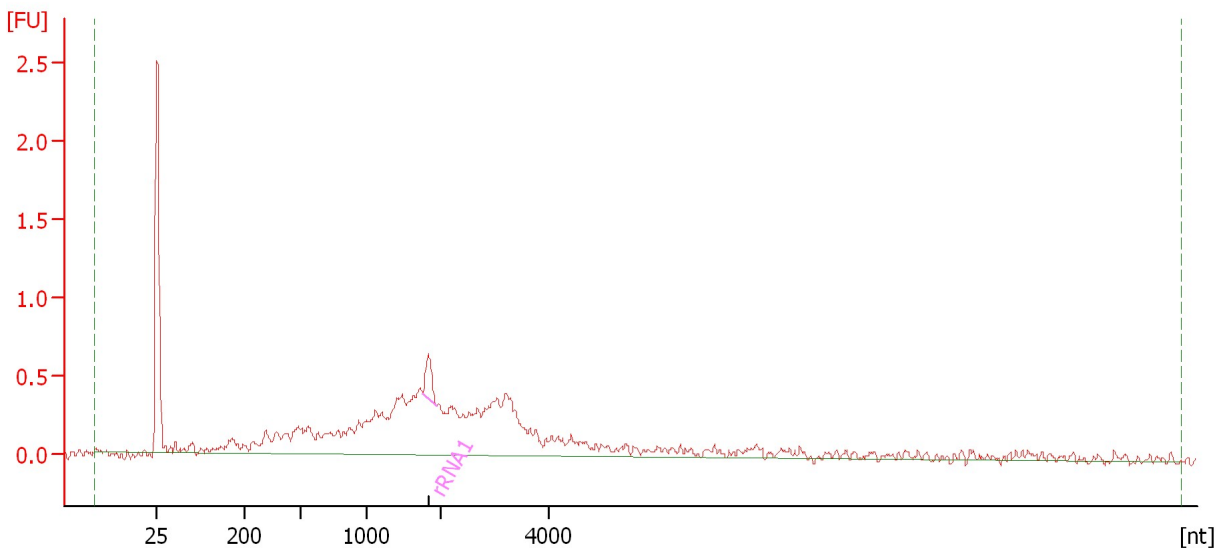
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,686	1,948	2.6	9.5
rRNA1	3,090	3,561	1.6	6.0

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

RNA Area: 14.9 rRNA Contamination: 2.2 %
RNA Concentration: 56 ng/μl

Fragment table for sample 4 : Sample 4

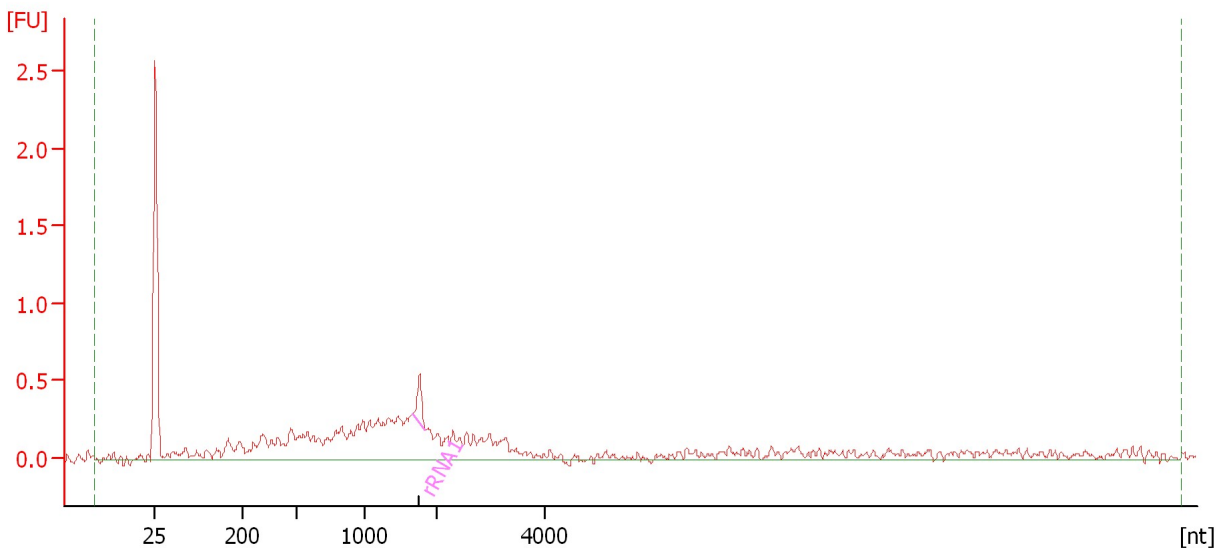
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,762	1,937	0.3	2.2

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

RNA Area: 11.9 rRNA Contamination: 2.3 %
RNA Concentration: 45 ng/μl

Fragment table for sample 5 : Sample 5

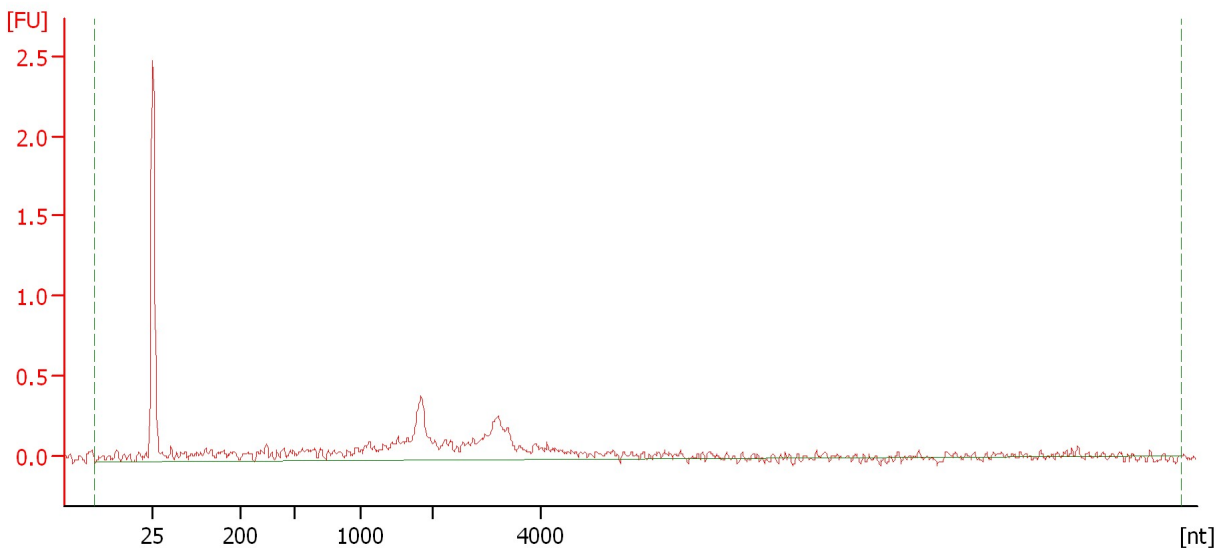
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,660	1,825	0.3	2.3

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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Electropherogram Summary Continued ...

Sample 6



Overall Results for sample 6 : Sample 6

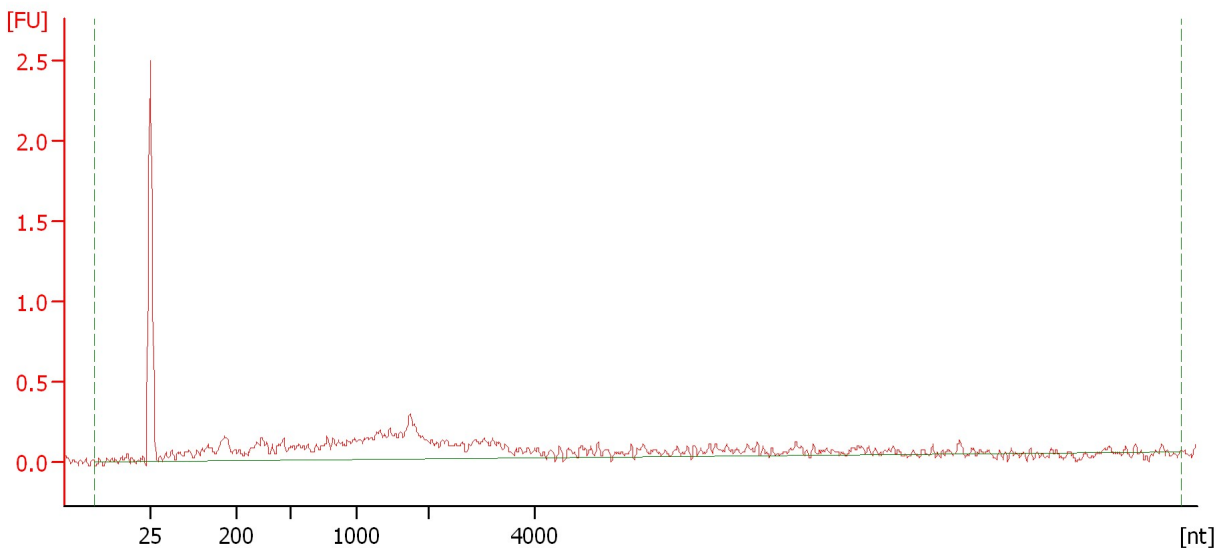
RNA Area: 7.1 rRNA Contamination: 0.0 %
RNA Concentration: 27 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
Modified: 5/6/2016 10:53:29 AM

Electropherogram Summary Continued ...

Sample 7



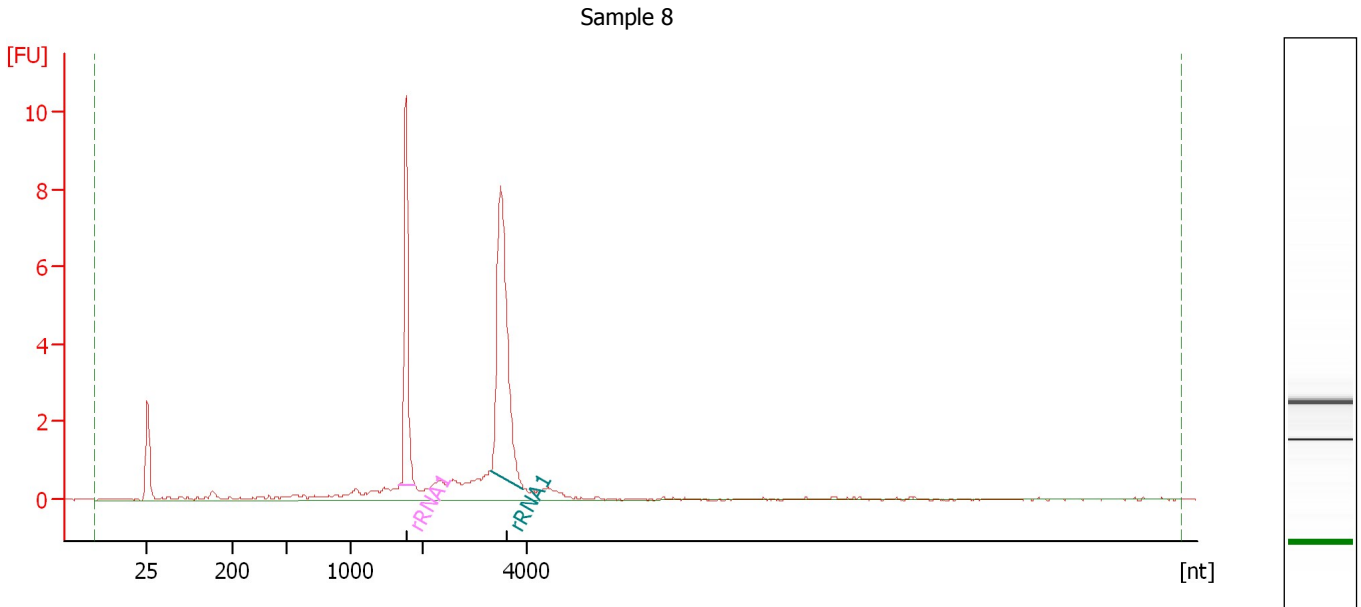
Overall Results for sample 7 : Sample 7

RNA Area: 8.7 rRNA Contamination: 0.0 %
RNA Concentration: 33 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area: 38.0 rRNA Contamination: 56.1 %
RNA Concentration: 144 ng/μl

Fragment table for sample 8 : Sample 8

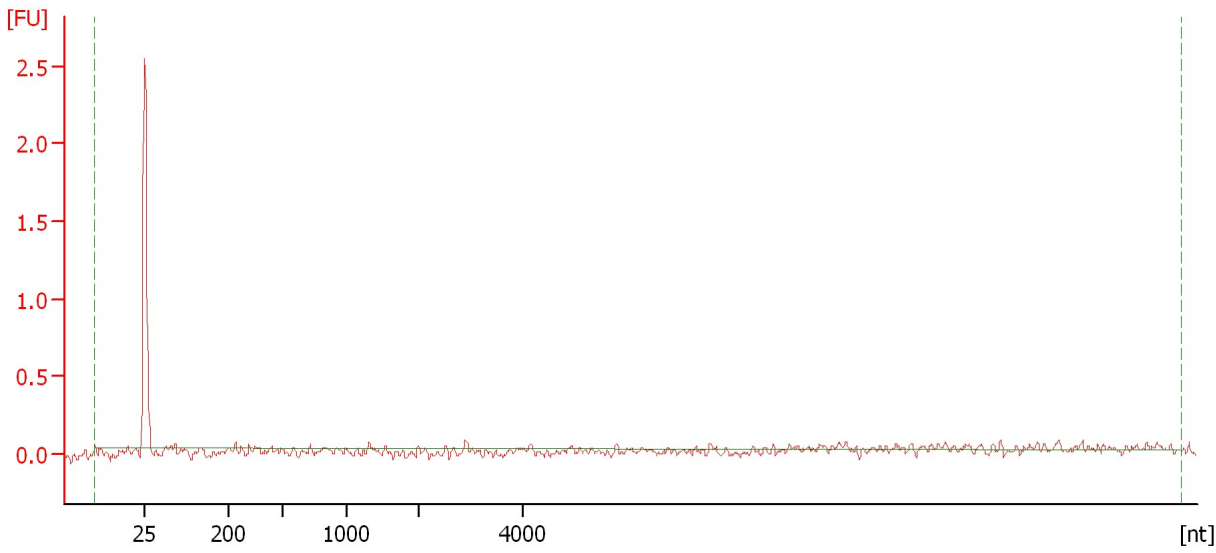
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,674	1,898	7.9	20.8
rRNA1	3,303	3,924	13.4	35.3

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

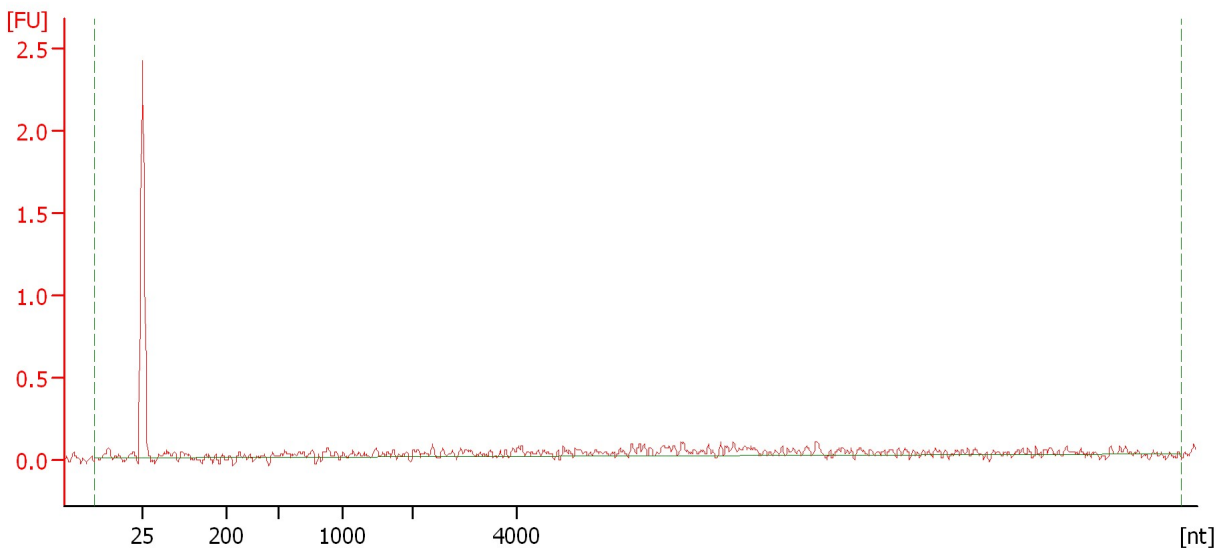
RNA Area:	0.7	rRNA Contamination:	0.0 %
RNA Concentration:	3 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

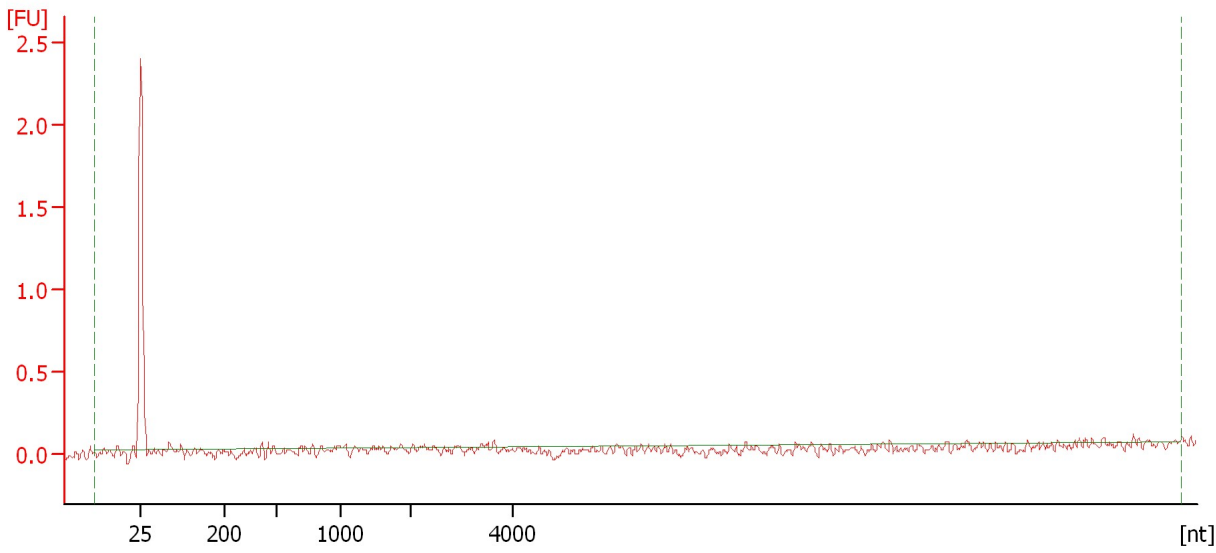
RNA Area:	3.0	rRNA Contamination:	0.0 %
RNA Concentration:	12 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
Modified: 5/6/2016 10:53:29 AM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

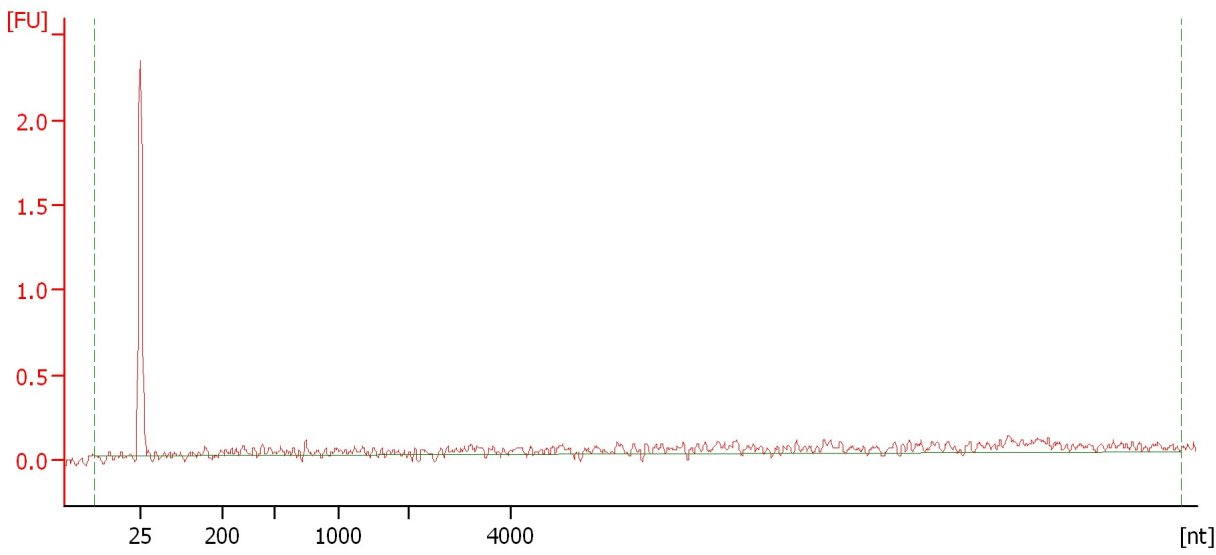
RNA Area:	0.5	rRNA Contamination:	0.0 %
RNA Concentration:	2 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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Electropherogram Summary Continued ...

Sample 12



Overall Results for sample 12 : Sample 12

RNA Area:	3.3	rRNA Contamination:	0.0 %
RNA Concentration:	12 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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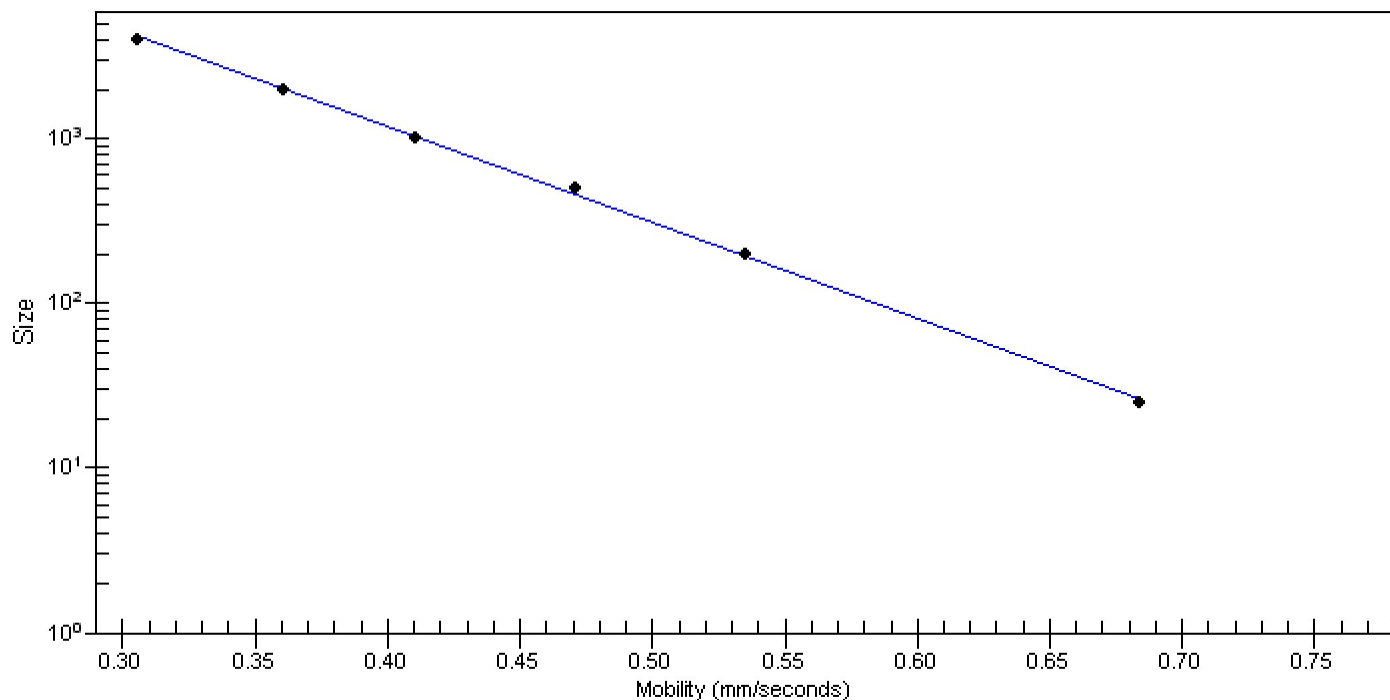
Gel Image

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-06\2016-05-06_001.xad

Created: 5/6/2016 10:26:27 AM
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Curves

Standard Curve



Assay Class: mRNA Nano
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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		5/6/2016 10:53:28 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\2016-05-06\2016-05-06_001.xad)		Instrument	Run		5/6/2016 10:26:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/6/2016 10:26:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/6/2016 10:26:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/6/2016 10:26:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/6/2016 10:26:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/6/2016 10:26:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/6/2016 10:26:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1