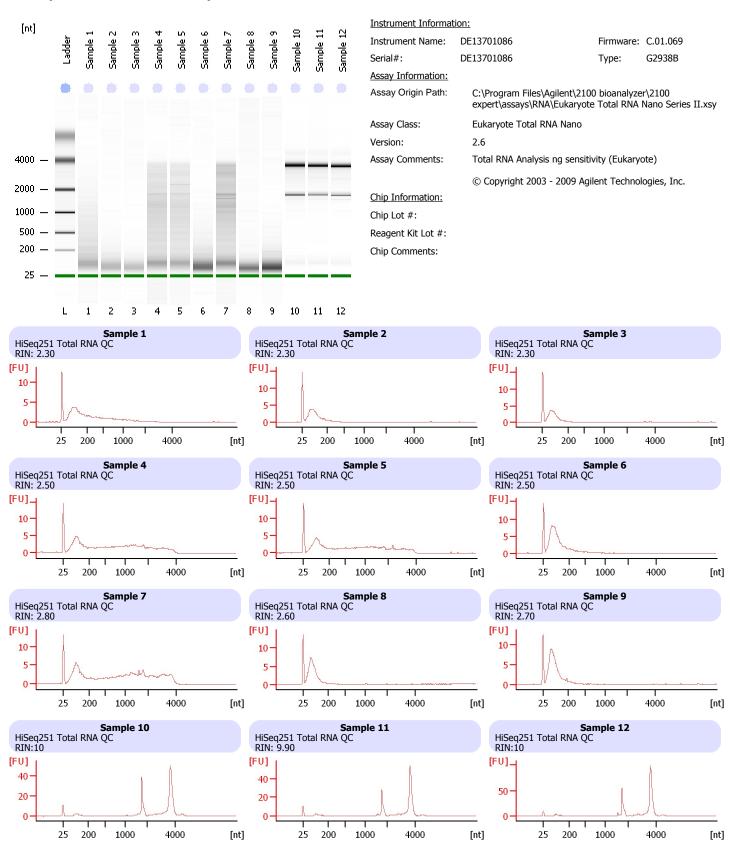
2015-09-21_001.xad Page 1 of 19

Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electrophoresis File Run Summary



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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Created: 9/21/2015 10:33:11 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label
Sample 1	HiSeq251 Total RNA QC	~	RIN: 2.30
Sample 2	HiSeq251 Total RNA QC	~	RIN: 2.30
Sample 3	HiSeq251 Total RNA QC	~	RIN: 2.30
Sample 4	HiSeq251 Total RNA QC	~	RIN: 2.50
Sample 5	HiSeq251 Total RNA QC	~	RIN: 2.50
Sample 6	HiSeq251 Total RNA QC	~	RIN: 2.50
Sample 7	HiSeq251 Total RNA QC	~	RIN: 2.80
Sample 8	HiSeq251 Total RNA QC	~	RIN: 2.60
Sample 9	HiSeq251 Total RNA QC	~	RIN: 2.70
Sample 10	HiSeq251 Total RNA QC	~	RIN:10
Sample 11	HiSeq251 Total RNA QC	~	RIN: 9.90
Sample 12	HiSeq251 Total RNA QC	~	RIN:10
Ladder		~	All Other Samples

Chip Lot # Reagent Kit Lot #

Chip Comments:

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

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/µl]: 150

Lower Marker Concentration [ng/µl]: 0

Upper Marker Concentration [ng/µl]: 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

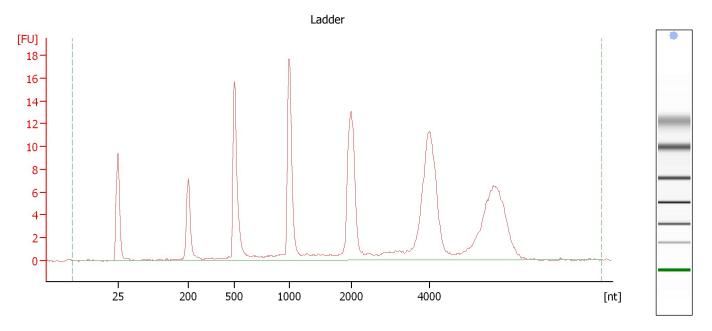
Ladder

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

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Created: 9/21/2015 10:33:11 AM

Electropherogram Summary



Overall Results for Ladder

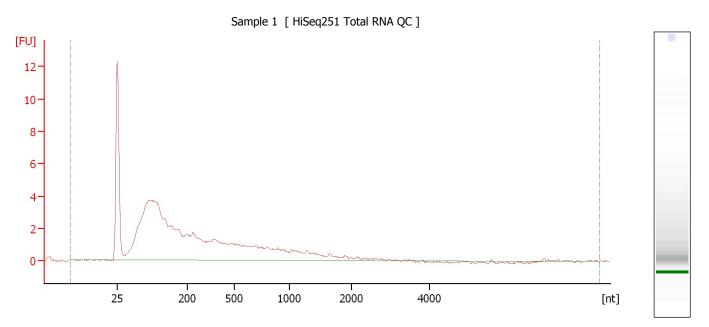
RNA Area: 151.8 RNA Concentration: 150 ng/µl Result Flagging Color: Result Flagging Label:

All Other Samples

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area: 82.9
RNA Concentration: 82 ng/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): Result Flagging Color: Result Flagging Label:

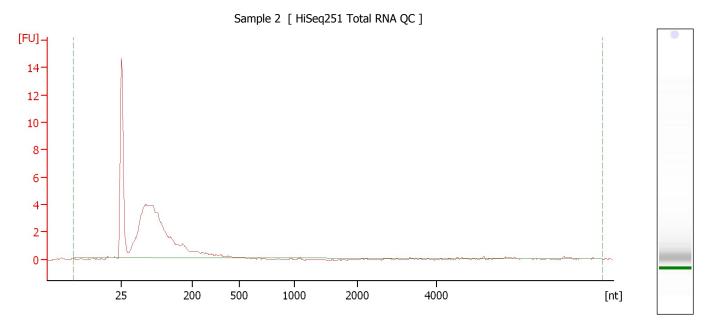
RIN: 2.30

2.3 (B.02.08)

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Eukaryote Total RNA Nano C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Assay Class: Created: 9/21/2015 9:33:13 AM Modified: Data Path: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 2: Sample 2

RNA Area: 48.3 RNA Concentration: 48 ng/µl rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): Result Flagging Color: Result Flagging Label:

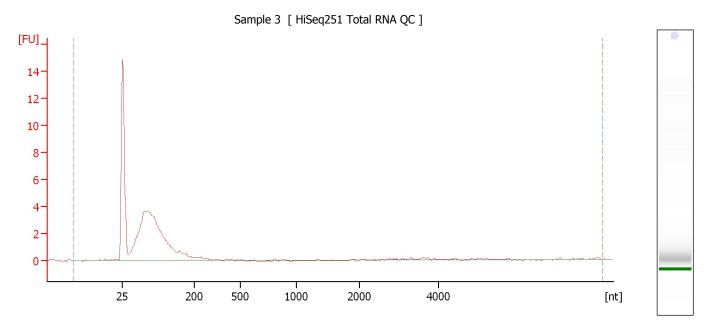
Printed: 9/21/2015 10:40:51 AM

2.3 (B.02.08)

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 3: Sample 3

RNA Area: 41.0 RNA Concentration: 41 ng/μl rRNA Ratio [28s / 18s]: 0.0 RNA Integrity Number (RIN): Result Flagging Color: Result Flagging Label:

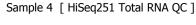
RIN: 2.30

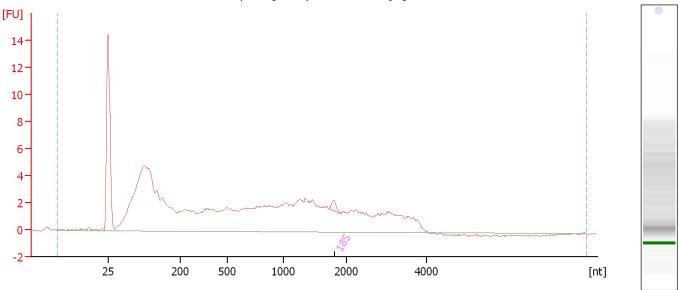
2.3 (B.02.08)

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...





Overall Results for sample 4: Sample 4

RNA Area: 143.5 RNA Integrity Number (RIN): 2.5 (B.02.08)
RNA Concentration: 142 ng/µl Result Flagging Color: RNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.50

Fragment table for sample 4: <u>Sample 4</u>

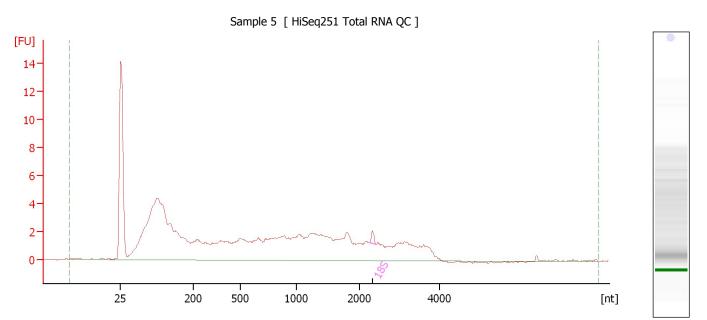
Name Start Size [nt] End Size [nt] Area % of total Area

18S 1,711 1,905 0.8 0.6

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : <u>Sample 5</u>

Fragment table for sample 5 : <u>Sample 5</u>

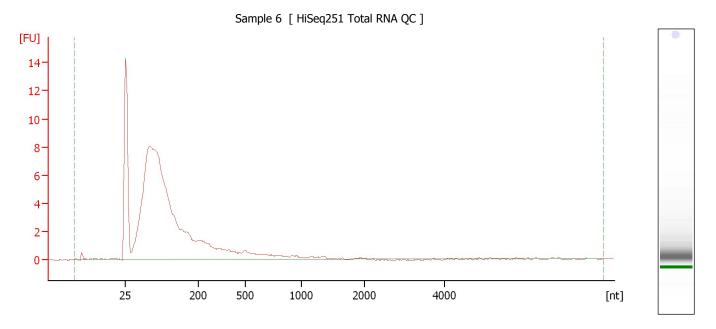
Name Start Size [nt] End Size [nt] Area % of total Area

18S 2,252 2,413 0.5 0.4

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Created: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : <u>Sample 6</u>

RNA Area: 105.7 RNA Concentration: 104 ng/μl rRNA Ratio [28s / 18s]: 0.0 RNA Integrity Number (RIN): Result Flagging Color: Result Flagging Label:

RIN: 2.50

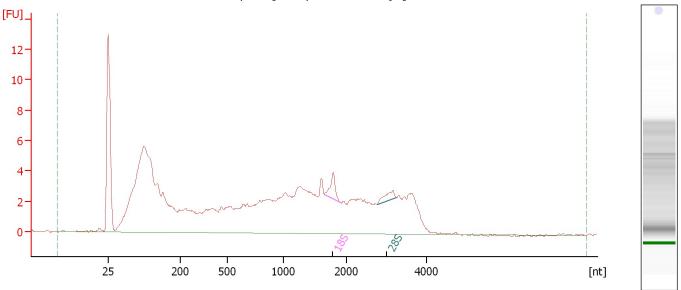
2.5 (B.02.08)

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Eukaryote Total RNA Nano C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Assay Class: 9/21/2015 9:33:13 AM Created: Data Path: Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...

Sample 7 [HiSeq251 Total RNA QC]



Overall Results for sample 7: Sample 7

RNA Area: 176.5 RNA Integrity Number (RIN): 2.8 (B.02.08) RNA Concentration: 174 ng/µl Result Flagging Color: rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 2.80

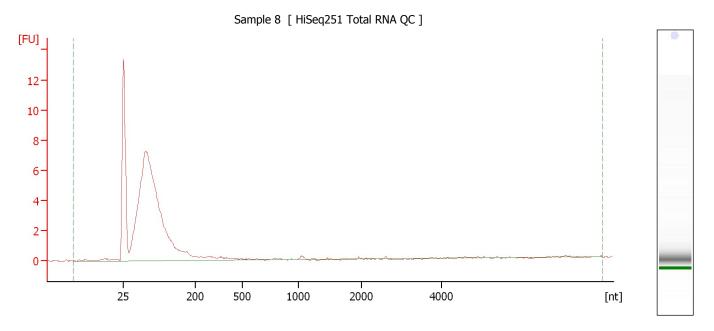
Fragment table for sample 7: Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,905	2.1	1.2
285	2.762	3.258	1.2	0.7

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Created: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : <u>Sample 8</u>

RNA Area: 65.6

RNA Concentration: 65 ng/µl

rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): Result Flagging Color: Result Flagging Label:

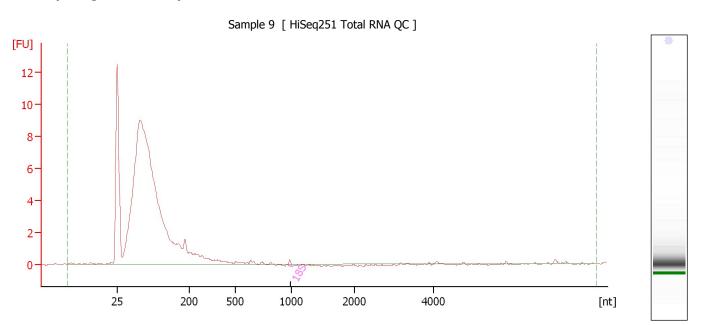
RIN: 2.60

2.6 (B.02.08)

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 9: Sample 9

RNA Area: 91.9 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 91 ng/µl Result Flagging Color: RNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.70

Fragment table for sample 9: <u>Sample 9</u>

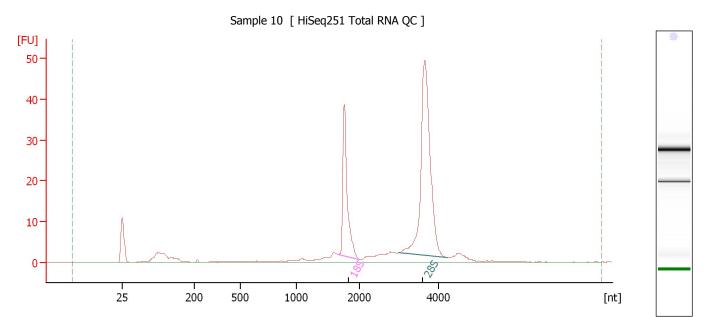
 Name
 Start Size [nt]
 End Size [nt]
 Area
 % of total Area

 18S
 969
 1,013
 0.2
 0.2

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area: 203.1 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 201 ng/µl Result Flagging Color: RNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN:10

Fragment table for sample 10 : Sample 10

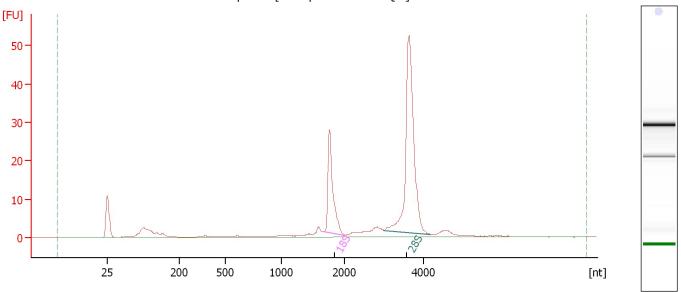
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,996	37.7	18.6
28S	2.992	4,204	91.9	45.2

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Assay Class: Eukaryote Total RNA Nano 9/21/2015 9:33:13 AM Created: Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...

Sample 11 [HiSeq251 Total RNA QC]



Overall Results for sample 11: Sample 11

RNA Area: 174.2 RNA Integrity Number (RIN): 9.9 (B.02.08) RNA Concentration: 172 ng/µl Result Flagging Color:

rRNA Ratio [28s / 18s]: 2.7 Result Flagging Label: RIN: 9.90

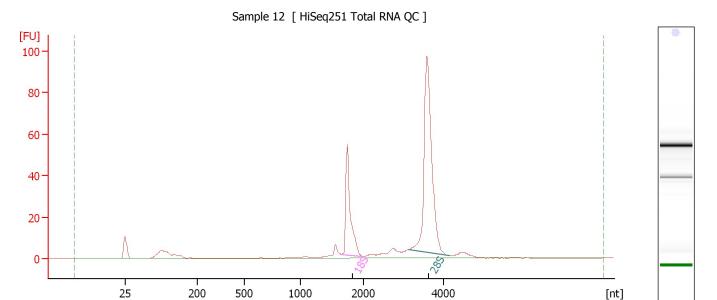
Fragment table for sample 11: Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	2,022	30.6	17.6
28S	2.992	4.177	83.7	48.1

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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 12: Sample 12

RNA Area: 292.1 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 289 ng/µl Result Flagging Color: RNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN:10

Fragment table for sample 12 : <u>Sample 12</u>

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,998	56.4	19.3
28S	3,124	4,143	149.1	51.0

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Assay Class: Data Path: Eukaryote Total RNA Nano C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Created: Modified: 9/21/2015 9:33:13 AM 9/21/2015 10:33:11 AM **Gel Image** [nt] Sample 10 Sample 12 ø ٠ ۰ • • ۰ ٠ • ø ø • 4000 2000 — 1000 500 200 — 25 2 L 3 8 10 11 12

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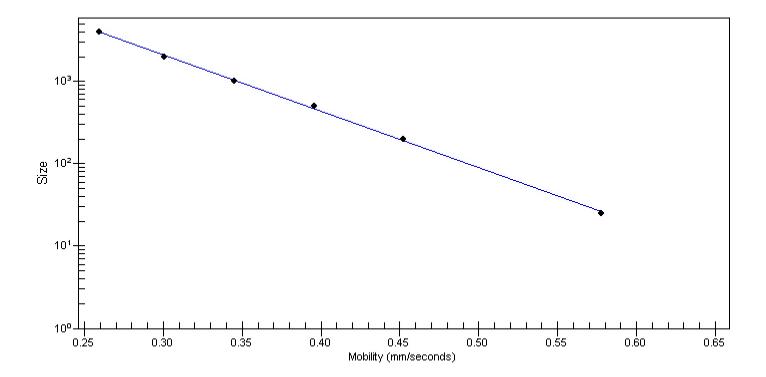
9/21/2015 9:33:13 AM 9/21/2015 10:33:11 AM

Printed: 9/21/2015 10:40:51 AM

Assay Class: Eukaryote Total RNA Nano Created: Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Created:

Curves

Standard Curve



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Assay Class: Eukaryote Total RNA Nano Created: 9/21/2015 9:33:13 AM Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-21\2015-09-21_001.xad Modified: 9/21/2015 10:33:11 AM

Run Logbook

Description Run ended on port 1 (Number of wells acquired: 13)	Number	Source Instrument	Category Run	Sub Category	Time 9/21/2015 9:57:16 AM	Time Zone (GMT07:00) Pacific Standard Time	User UC Davis	Host D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioana yzer\2015-09-21_001.xad)	1	Instrument	Run		9/21/2015 9:33:19 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Product Number: G2938B	r	Instrument	Run		9/21/2015 9:33:19 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Name :		Instrument	Run		9/21/2015 9:33:19 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Vendor : Agilent Technologies	t	Instrument	Run		9/21/2015 9:33:19 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/21/2015 9:33:18 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/21/2015 9:33:18 AM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/21/2015 9:33:18 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1