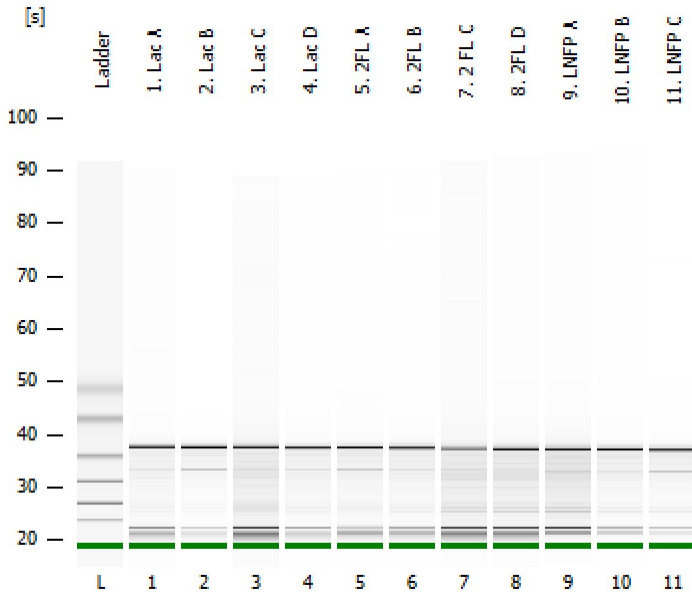


Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
 Serial#: DE34903152 Type: G2938C

Assay Information:

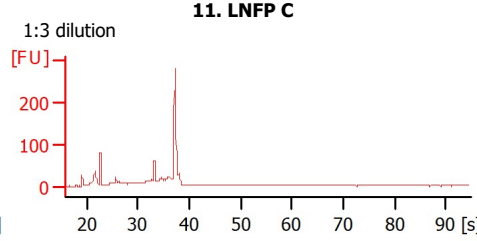
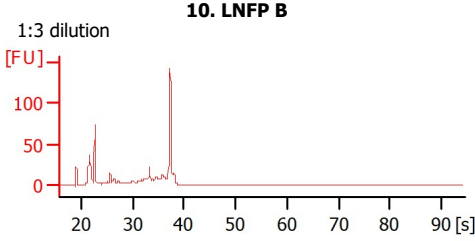
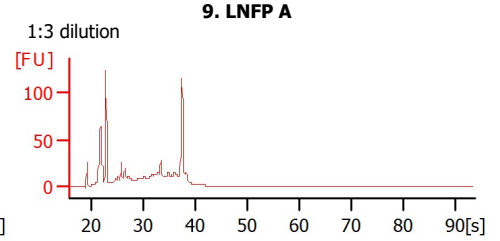
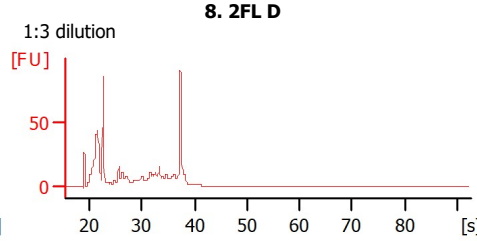
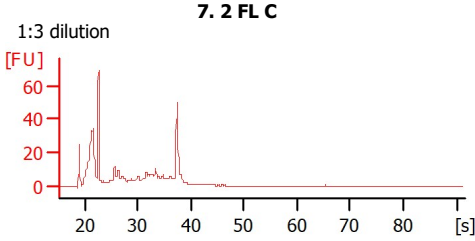
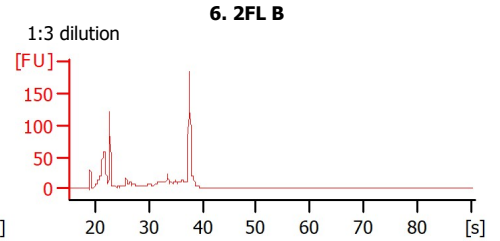
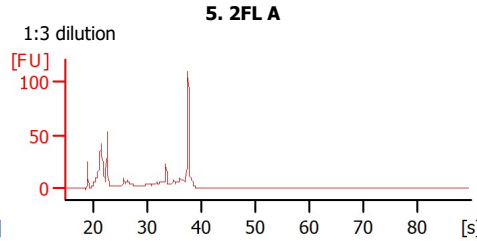
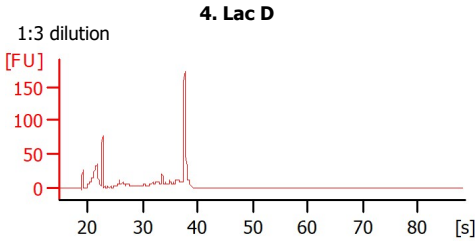
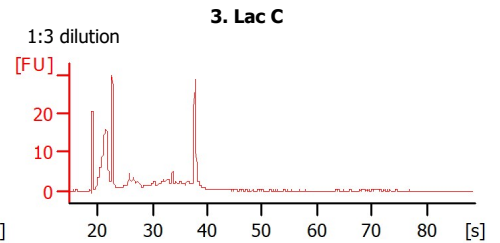
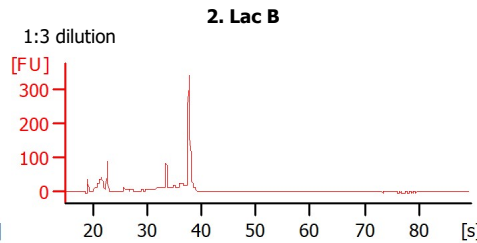
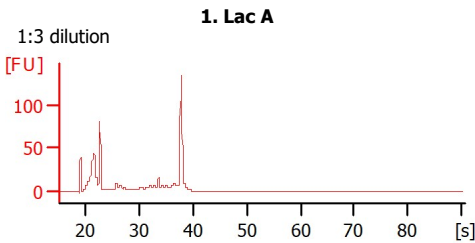
Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:



Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1. Lac A	1:3 dilution	✓		
2. Lac B	1:3 dilution	✓		
3. Lac C	1:3 dilution	✓		
4. Lac D	1:3 dilution	✓		
5. 2FL A	1:3 dilution	✓		
6. 2FL B	1:3 dilution	✓		
7. 2 FL C	1:3 dilution	✓		
8. 2FL D	1:3 dilution	✓		
9. LNFP A	1:3 dilution	✓		
10. LNFP B	1:3 dilution	✓		
11. LNFP C	1:3 dilution	✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
Modified: 11/15/2019 1:04:36 PM

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

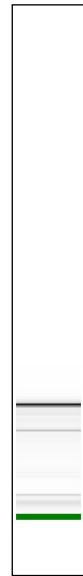
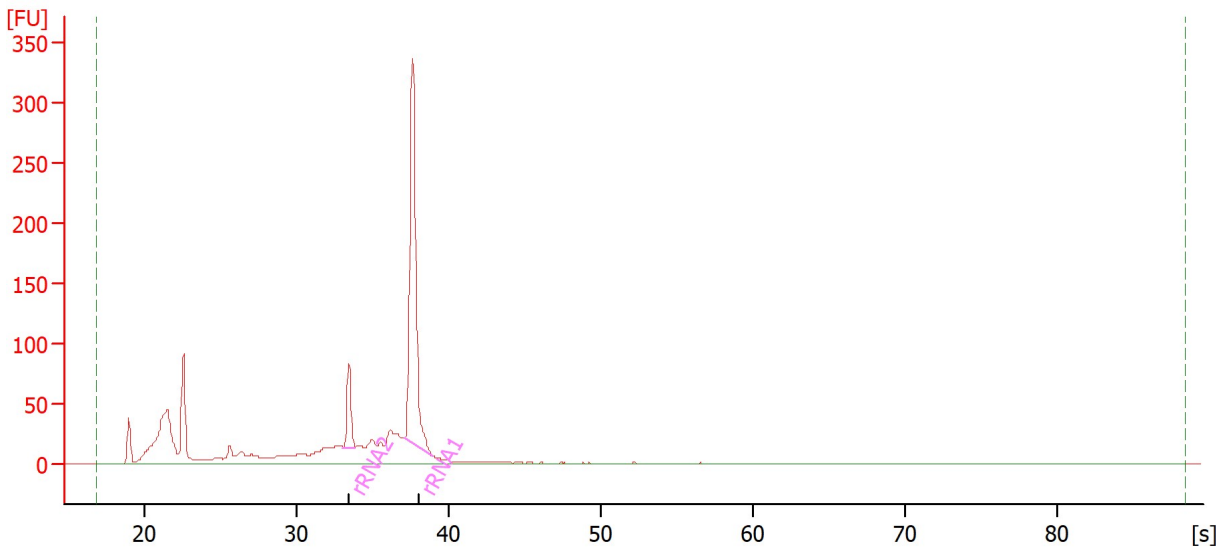
Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: mRNA Pico
Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

2. Lac B [1:3 dilution]



Overall Results for sample 2 : 2. Lac B

RNA Area: 1,343.7 rRNA Contamination: 34.3 %
RNA Concentration: 6,392 pg/μl

Fragment table for sample 2 : 2. Lac B

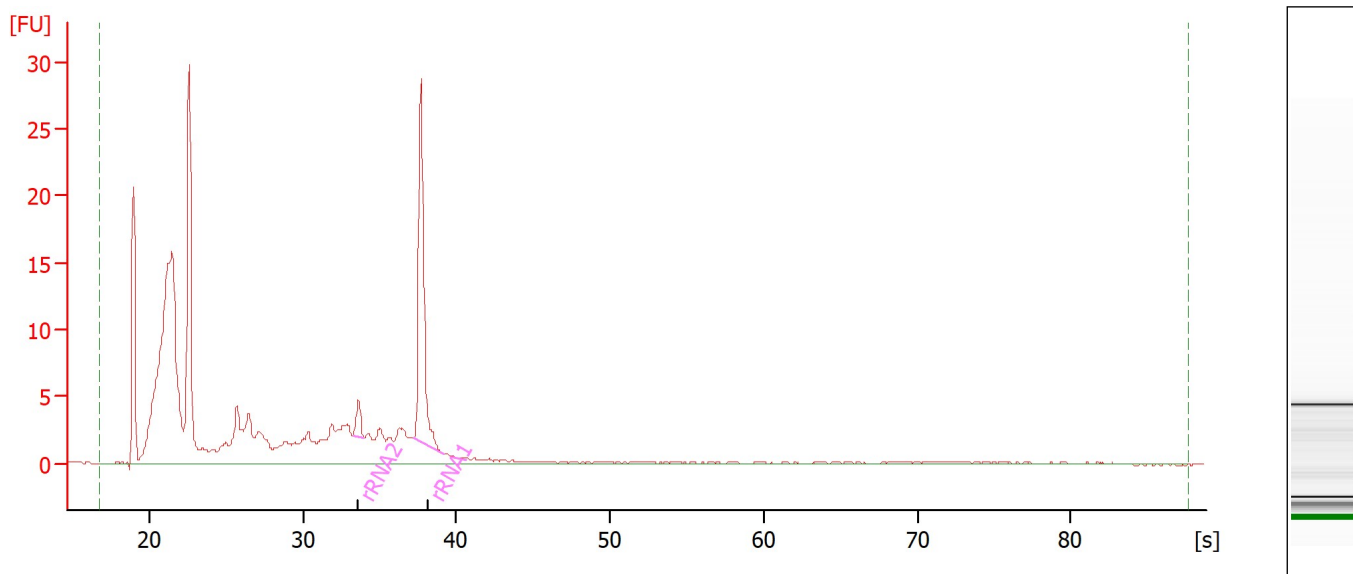
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	33.11	33.89	64.8	4.8
rRNA1	37.11	39.00	396.8	29.5

Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

3. Lac C [1:3 dilution]



Overall Results for sample 3 : 3. Lac C

RNA Area: 278.5 rRNA Contamination: 11.4 %
 RNA Concentration: 1,325 pg/μl

Fragment table for sample 3 : 3. Lac C

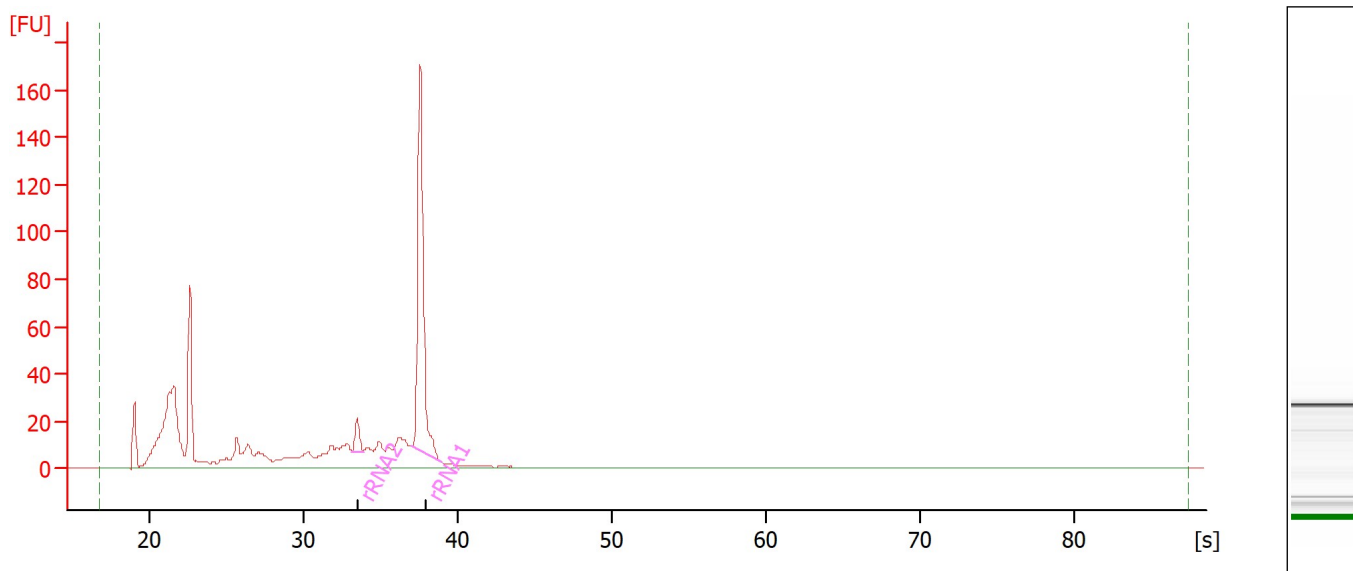
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	33.25	33.98	2.6	0.9
rRNA1	37.22	39.20	29.1	10.5

Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

4. Lac D [1:3 dilution]



Overall Results for sample 4 : 4. Lac D

RNA Area: 834.7 rRNA Contamination: 23.9 %
 RNA Concentration: 3,970 pg/μl

Fragment table for sample 4 : 4. Lac D

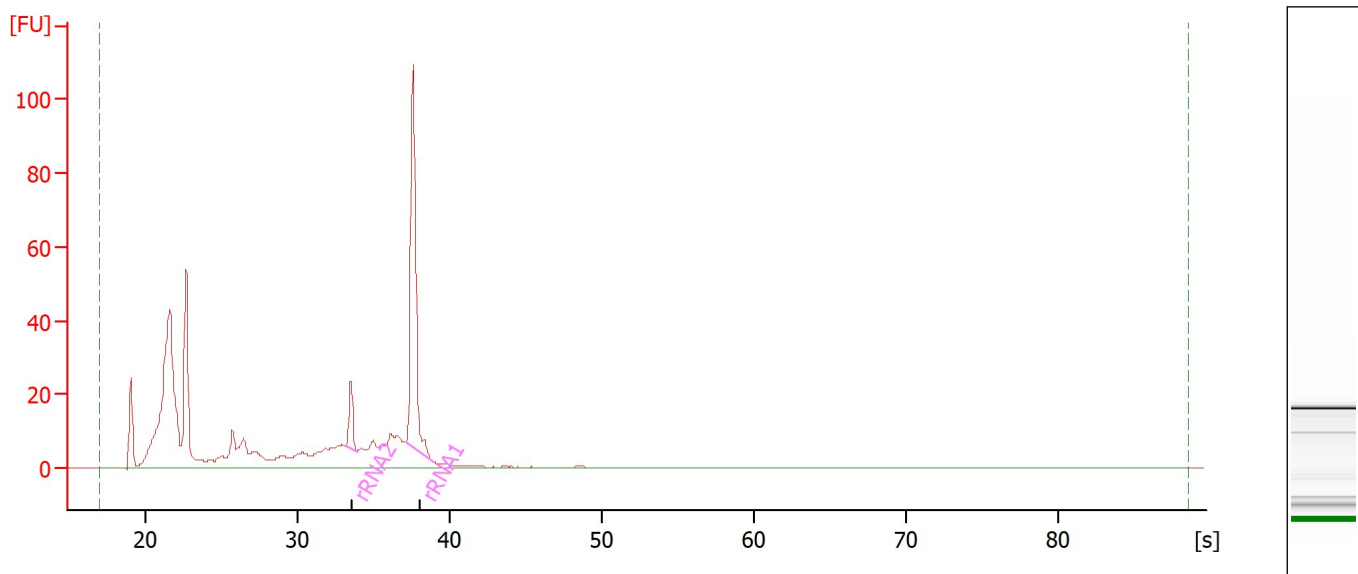
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	33.11	33.84	13.2	1.6
rRNA1	37.01	38.94	186.2	22.3

Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

5. 2FL A [1:3 dilution]



Overall Results for sample 5 : 5. 2FL A

RNA Area: 639.0 rRNA Contamination: 20.1 %
 RNA Concentration: 3,039 pg/μl

Fragment table for sample 5 : 5. 2FL A

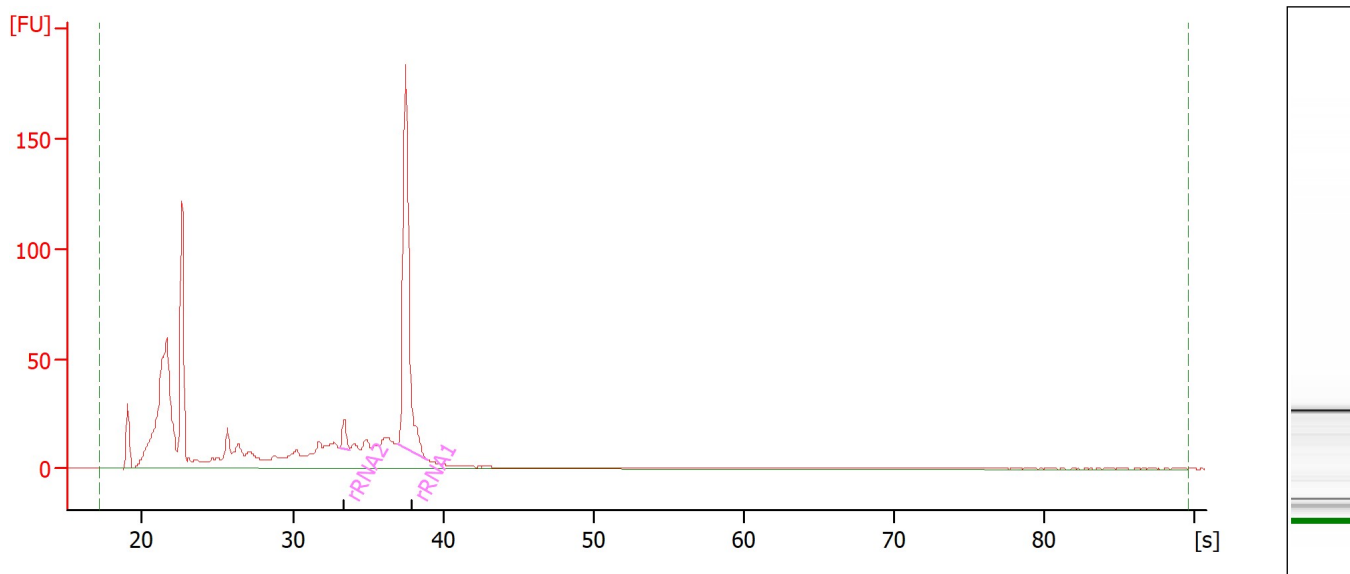
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	33.14	33.88	16.2	2.5
rRNA1	37.05	38.90	112.2	17.6

Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

6. 2FL B [1:3 dilution]



Overall Results for sample 6 : 6. 2FL B

RNA Area: 1,104.0 rRNA Contamination: 20.7 %
 RNA Concentration: 5,252 pg/μl

Fragment table for sample 6 : 6. 2FL B

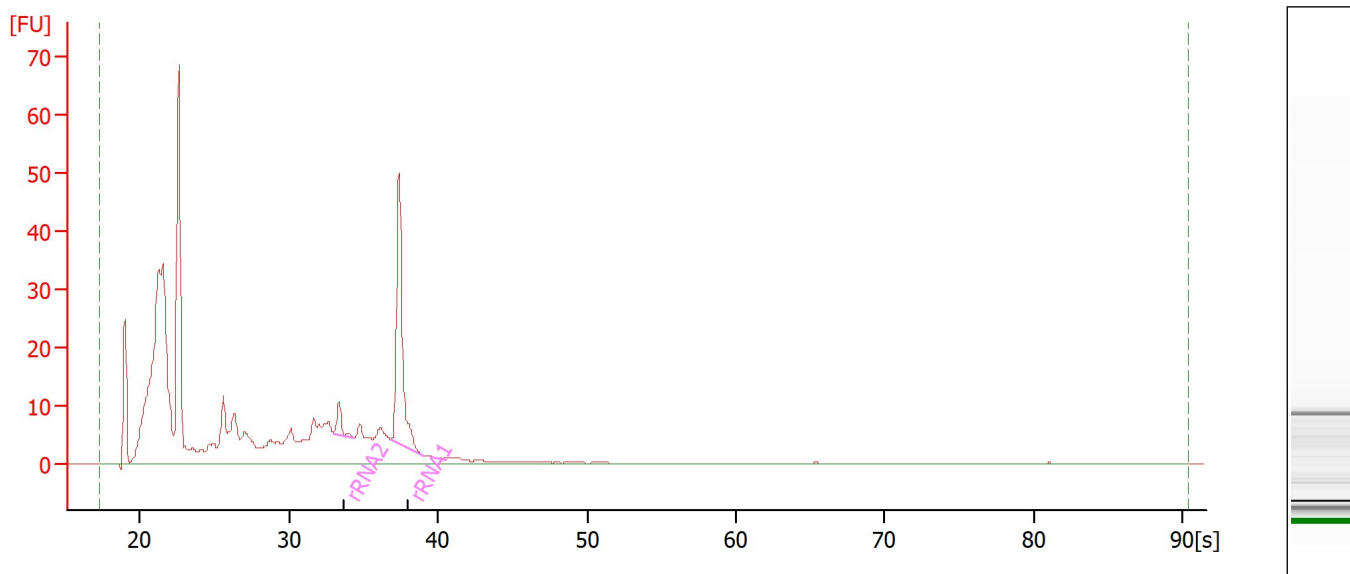
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	33.09	33.78	12.6	1.1
rRNA1	36.99	39.01	215.9	19.6

Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

7. 2 FL C [1:3 dilution]



Overall Results for sample 7 : 7. 2 FL C

RNA Area: 606.8 rRNA Contamination: 10.2 %
 RNA Concentration: 2,886 pg/μl

Fragment table for sample 7 : 7. 2 FL C

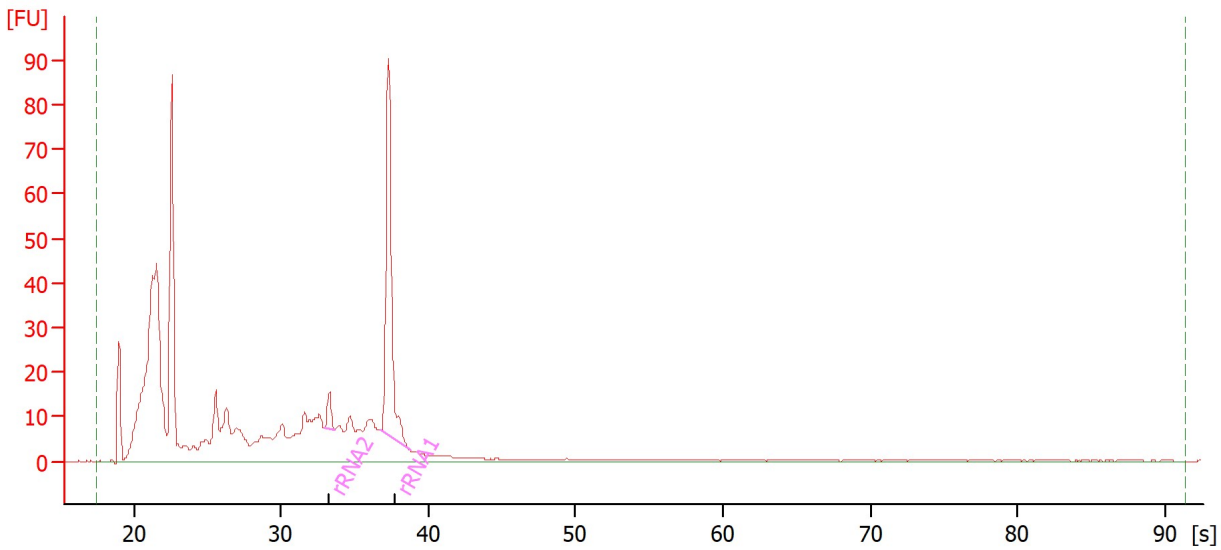
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	32.99	34.34	6.0	1.0
rRNA1	36.87	39.02	55.7	9.2

Assay Class: mRNA Pico
Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

8. 2FL D [1:3 dilution]



Overall Results for sample 8 : 8. 2FL D

RNA Area: 821.6 rRNA Contamination: 13.0 %
RNA Concentration: 3,908 pg/μl

Fragment table for sample 8 : 8. 2FL D

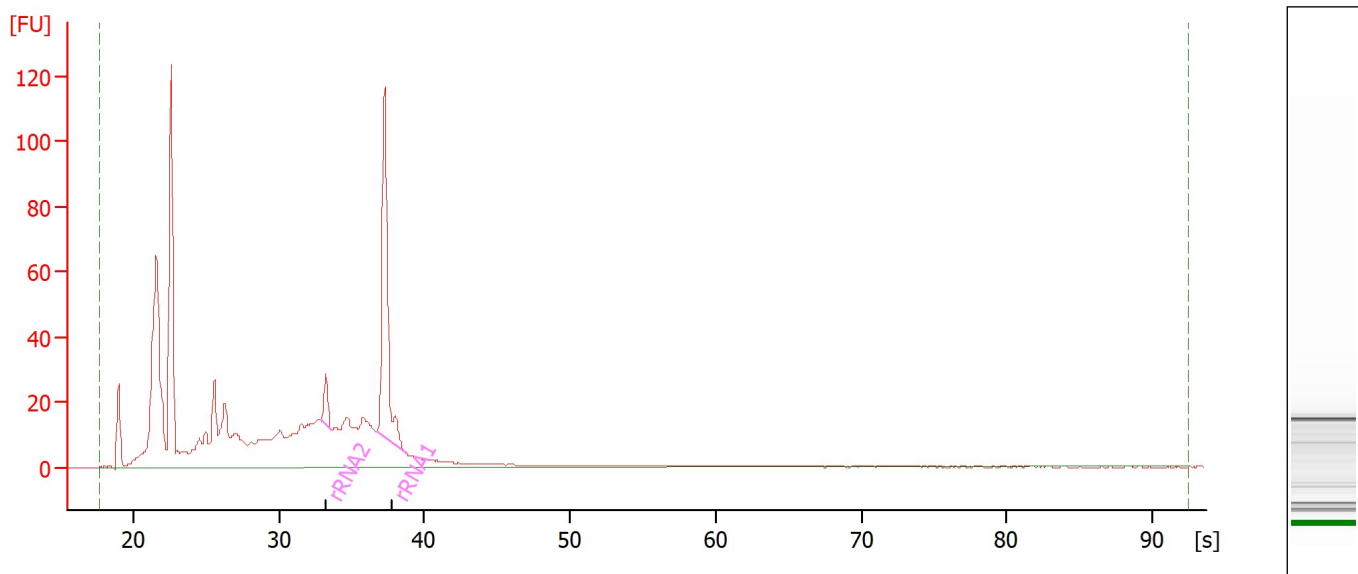
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	32.94	33.64	7.8	0.9
rRNA1	36.75	38.82	99.1	12.1

Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

9. LNFP A [1:3 dilution]



Overall Results for sample 9 : 9. LNFP A

RNA Area: 1,073.7 rRNA Contamination: 13.4 %
 RNA Concentration: 5,107 pg/μl

Fragment table for sample 9 : 9. LNFP A

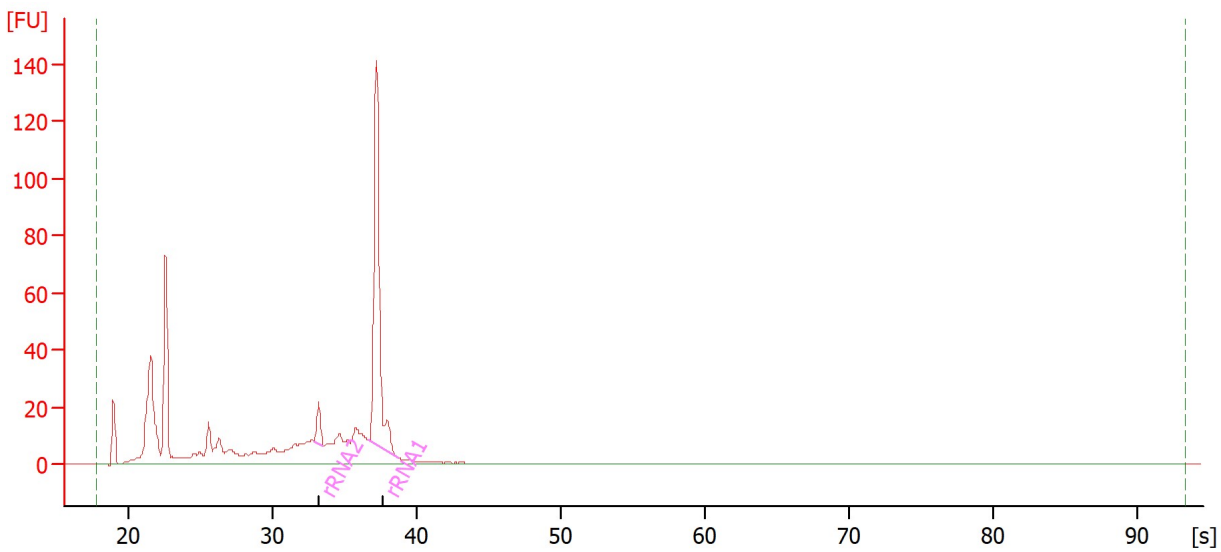
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	32.88	33.59	13.9	1.3
rRNA1	36.79	38.83	130.1	12.1

Assay Class: mRNA Pico
Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

10. LNFP B [1:3 dilution]



Overall Results for sample 10 : 10. LNFP B

RNA Area: 700.1 rRNA Contamination: 24.8 %
RNA Concentration: 3,330 pg/μl

Fragment table for sample 10 : 10. LNFP B

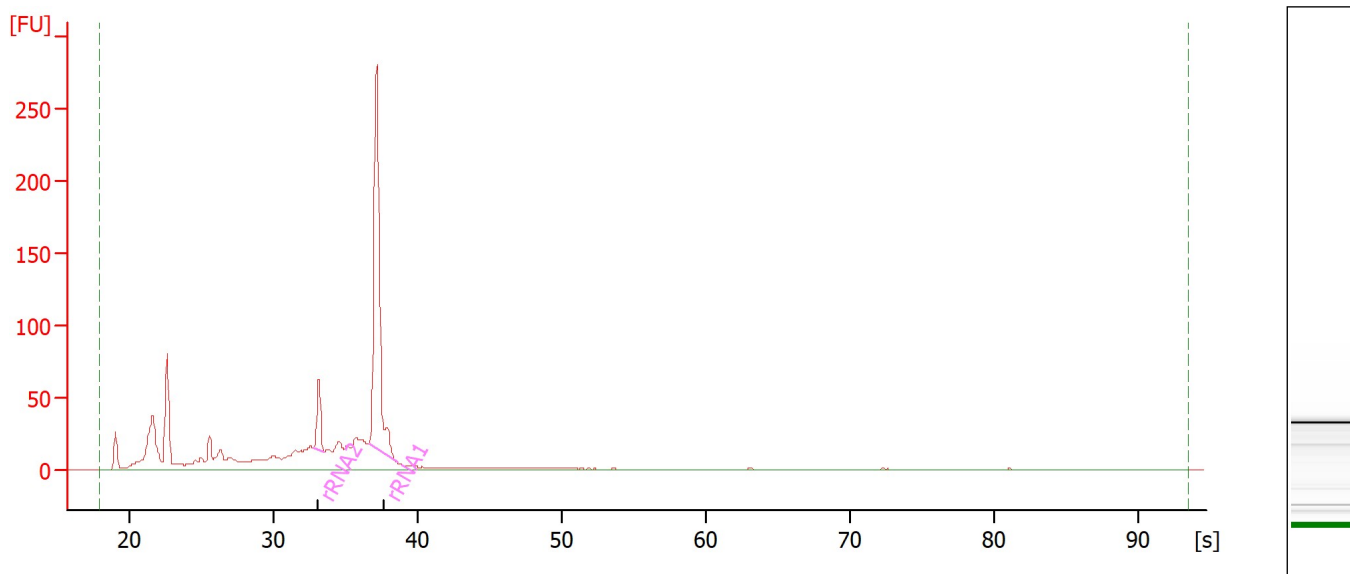
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	32.89	33.56	12.5	1.8
rRNA1	36.67	38.72	160.9	23.0

Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

Electropherogram Summary Continued ...

11. LNFP C [1:3 dilution]



Overall Results for sample 11 : 11. LNFP C

RNA Area: 1,163.1 rRNA Contamination: 32.3 %
 RNA Concentration: 5,533 pg/μl

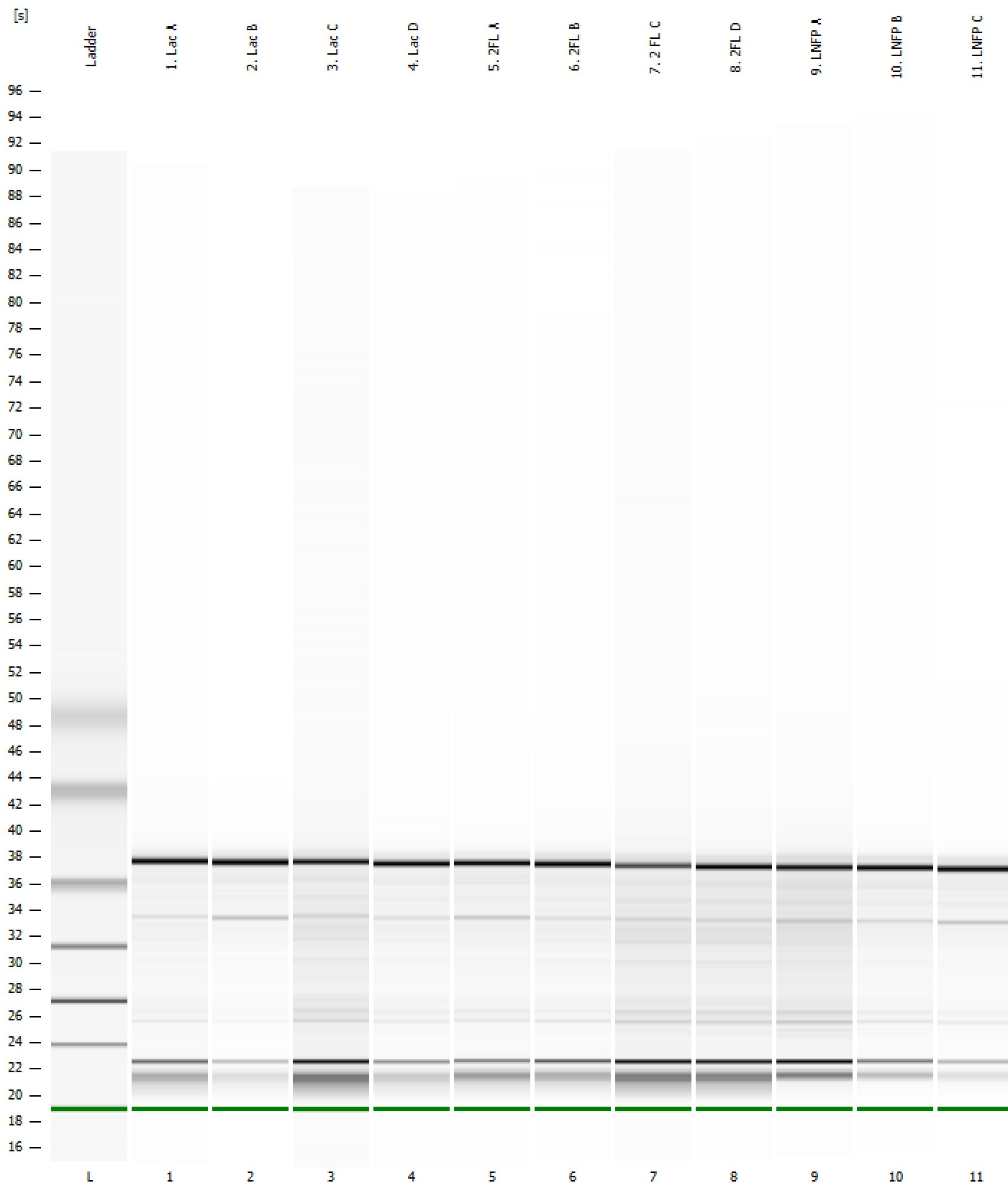
Fragment table for sample 11 : 11. LNFP C

Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	32.76	33.49	44.8	3.8
rRNA1	36.61	38.56	330.7	28.4

Assay Class: mRNA Pico
Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
Modified: 11/15/2019 1:04:36 PM

Gel Image

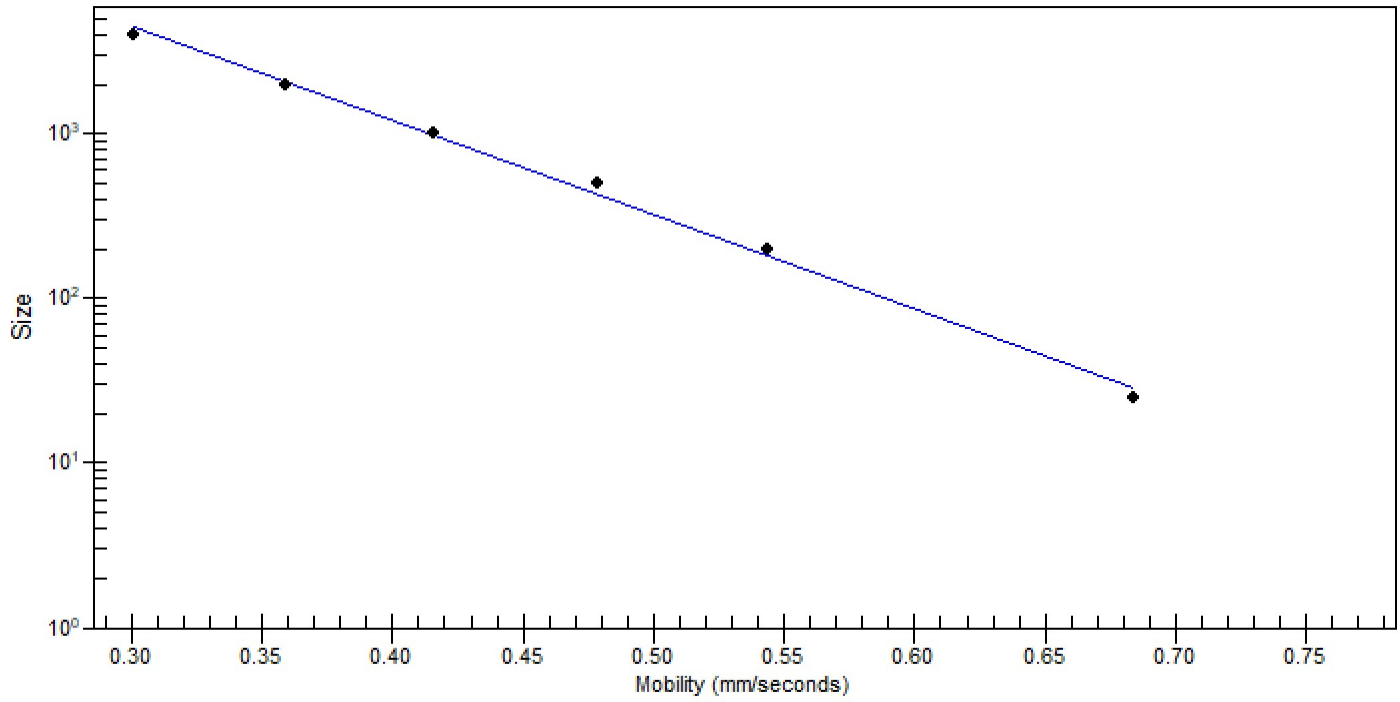


Assay Class: mRNA Pico
Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
Modified: 11/15/2019 1:04:36 PM

Curves

Standard Curve



Assay Class: mRNA Pico
 Data Path: C:\...t\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad

Created: 11/15/2019 12:38:28 PM
 Modified: 11/15/2019 1:04:36 PM

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		11/15/2019 1:04:29 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2019-11-15\Bioanalyzer1_mRNA Pico_2019-11-15_001.xad)		Instrument	Run		11/15/2019 12:38:34 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/15/2019 12:38:34 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/15/2019 12:38:34 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/15/2019 12:38:34 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/15/2019 12:38:34 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/15/2019 12:38:34 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/15/2019 12:38:34 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB