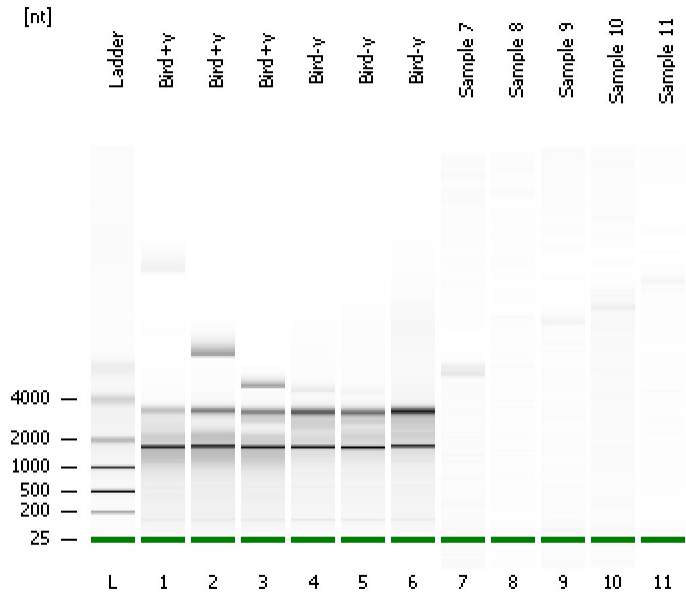


Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

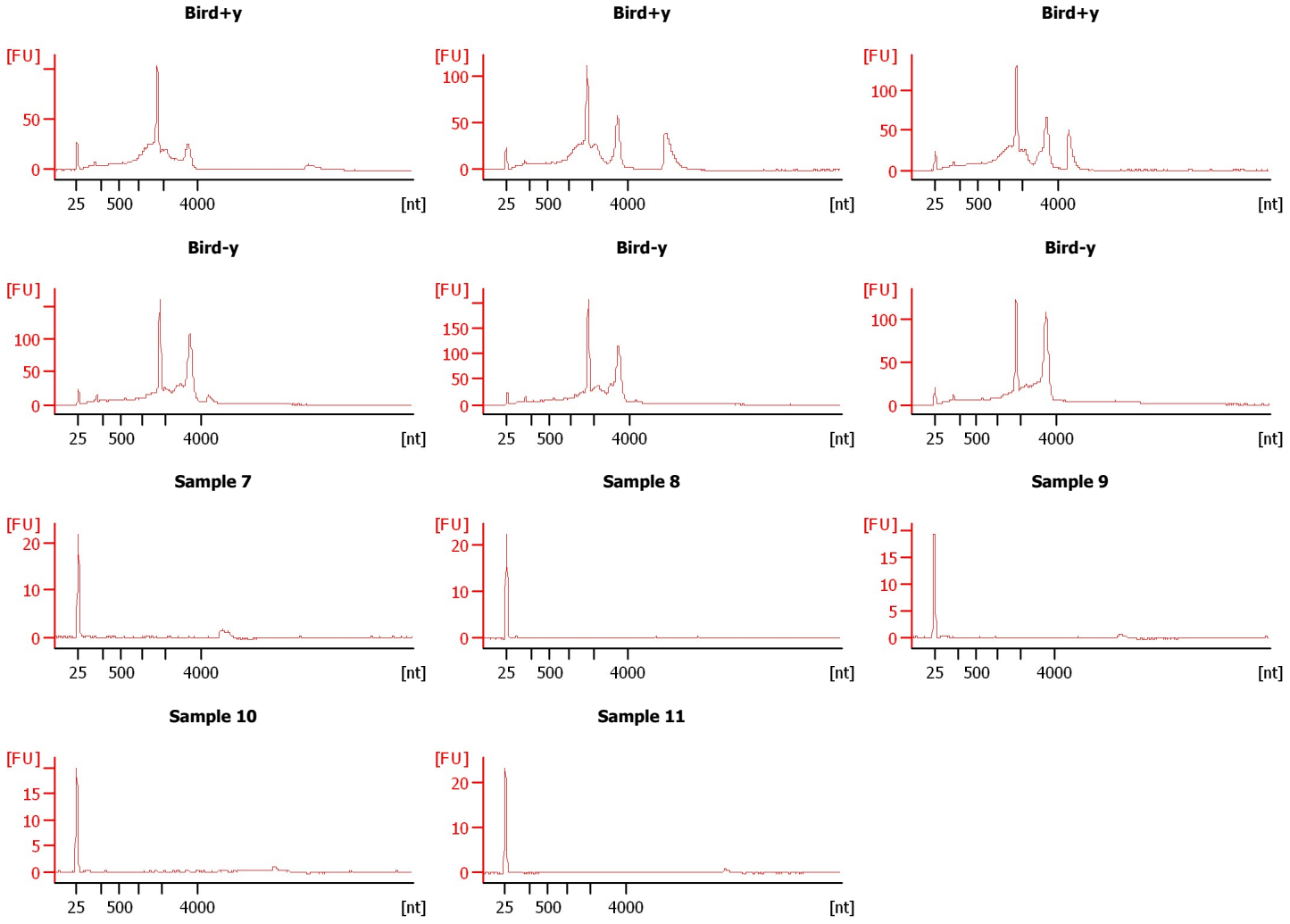
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:



Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Bird+y		✓		
Bird+y		✓		
Bird+y		✓		
Bird-y		✓		
Bird-y		✓		
Bird-y		✓		
Sample 7		✓		
Sample 8		✓		
Sample 9		✓		
Sample 10		✓		
Sample 11		✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 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

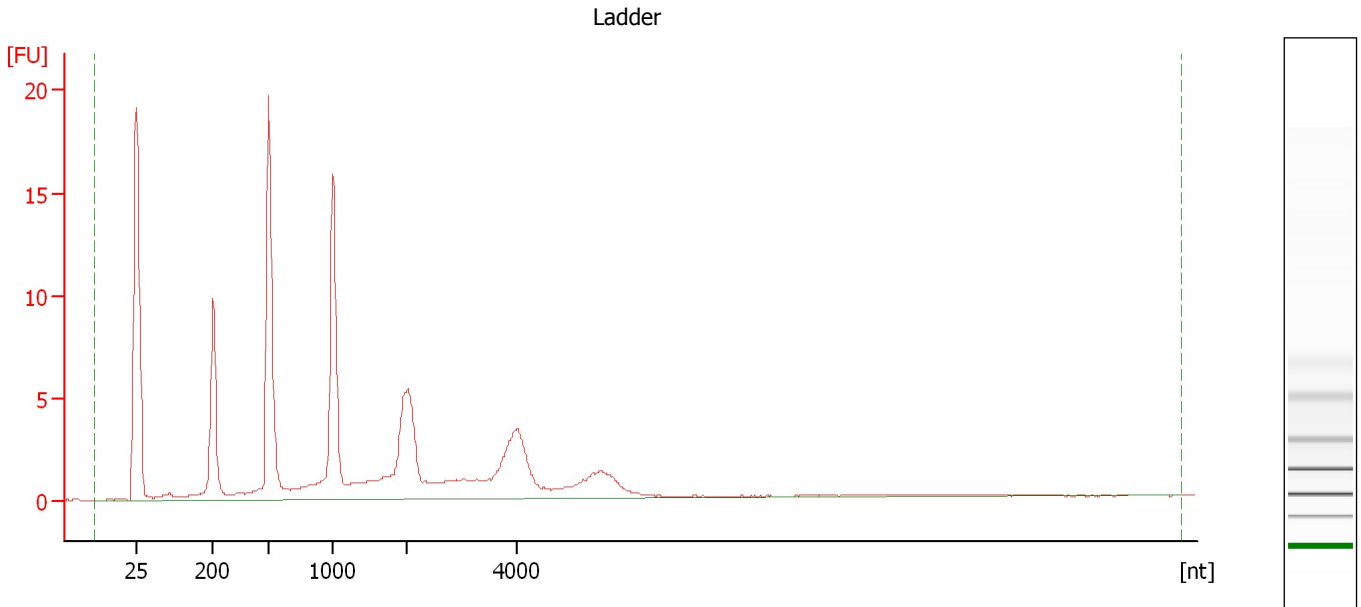
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary



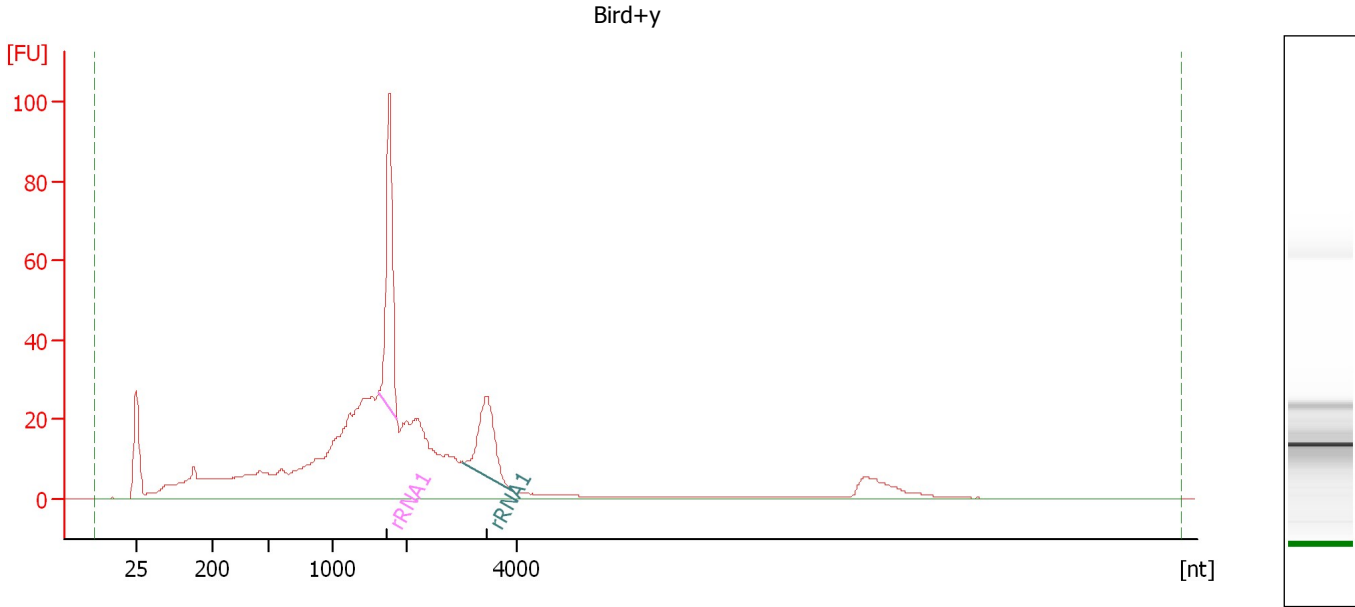
Overall Results for Ladder

RNA Area: 142.7 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Bird+y

RNA Area: 950.3 rRNA Contamination: 16.9 %
RNA Concentration: 6,658 pg/μl

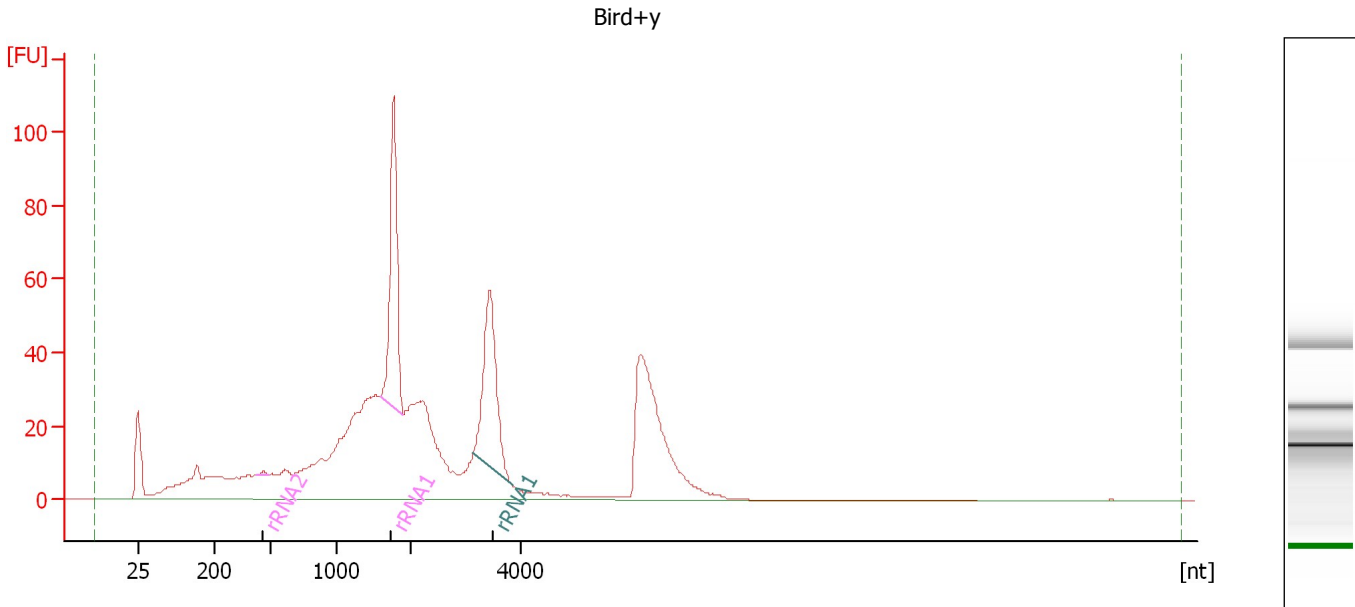
Fragment table for sample 1 : Bird+y

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,612	1,860	104.0	10.9
rRNA1	3,014	3,898	56.7	6.0

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Bird+y

RNA Area: 1,242.4 rRNA Contamination: 18.6 %
RNA Concentration: 8,705 pg/μl

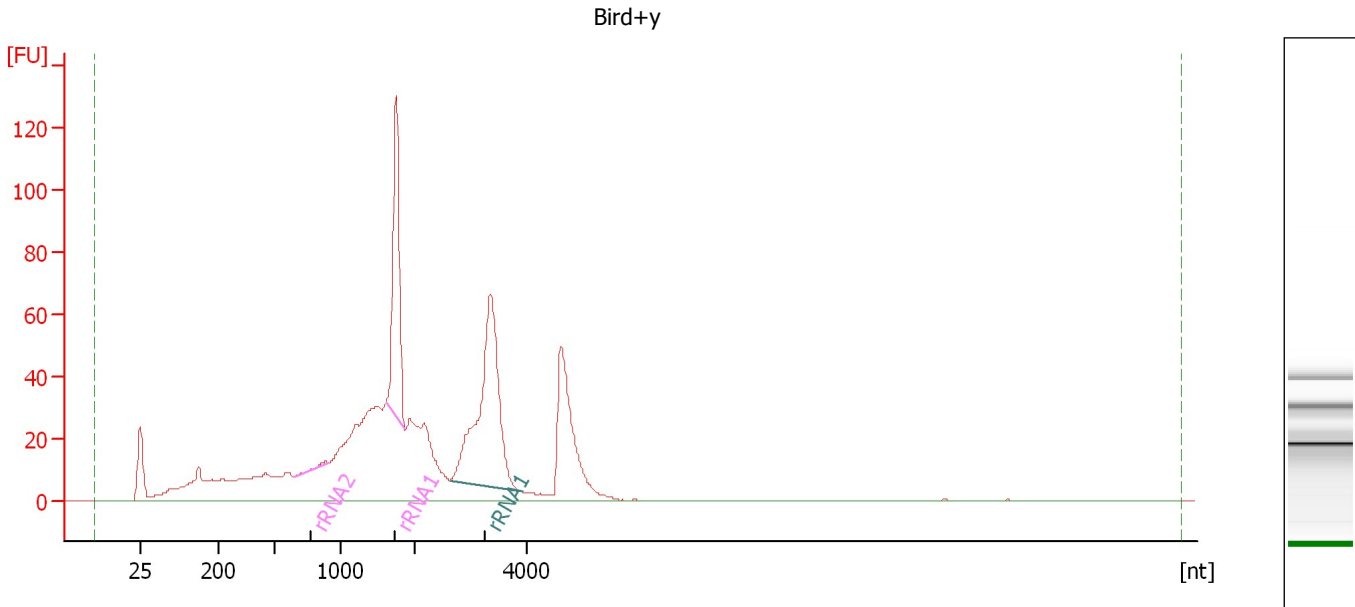
Fragment table for sample 2 : Bird+y

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	418	487	1.1	0.1
rRNA1	1,606	1,894	120.1	9.7
rRNA1	3,141	3,847	109.7	8.8

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Bird+y

RNA Area: 1,330.9 rRNA Contamination: 26.5 %
RNA Concentration: 9,324 pg/μl

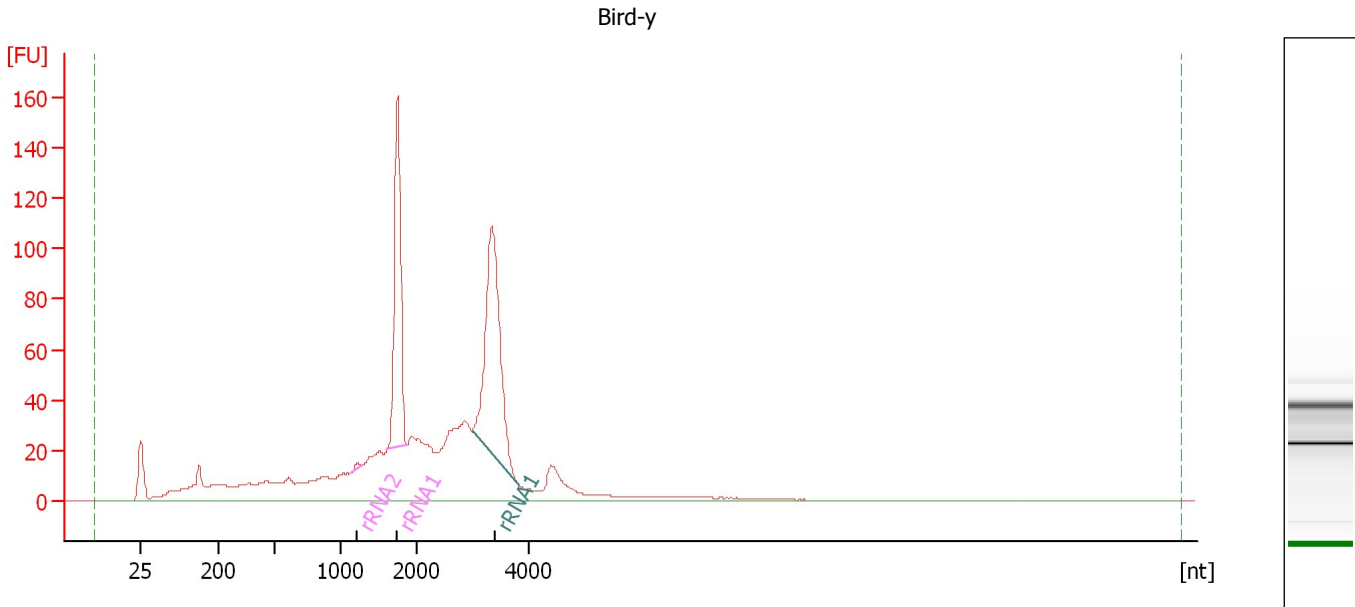
Fragment table for sample 3 : Bird+y

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	656	912	2.4	0.2
rRNA1	1,611	1,866	134.3	10.1
rRNA1	2,635	3,879	216.2	16.2

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Bird-y

RNA Area: 1,415.6 rRNA Contamination: 29.5 %
RNA Concentration: 9,918 pg/μl

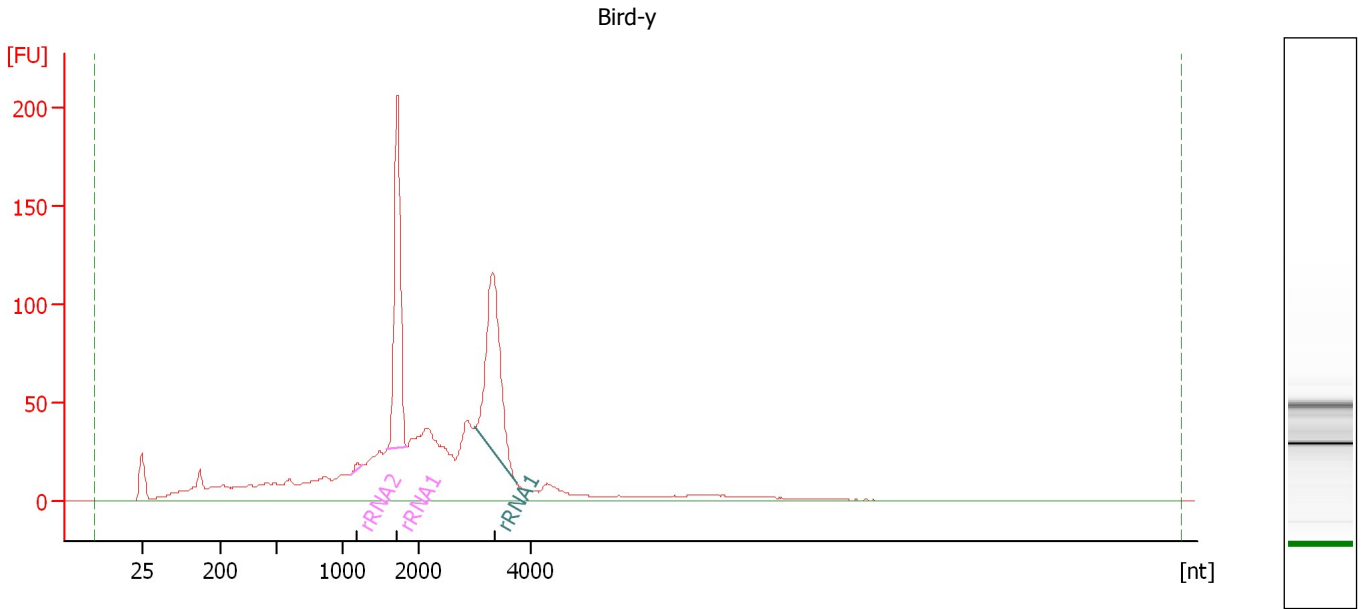
Fragment table for sample 4 : Bird-y

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,137	1,285	2.4	0.2
rRNA1	1,613	1,878	182.5	12.9
rRNA1	3,005	3,818	232.5	16.4

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Bird-y

RNA Area: 1,697.8 rRNA Contamination: 27.1 %
RNA Concentration: 11,895 pg/μl

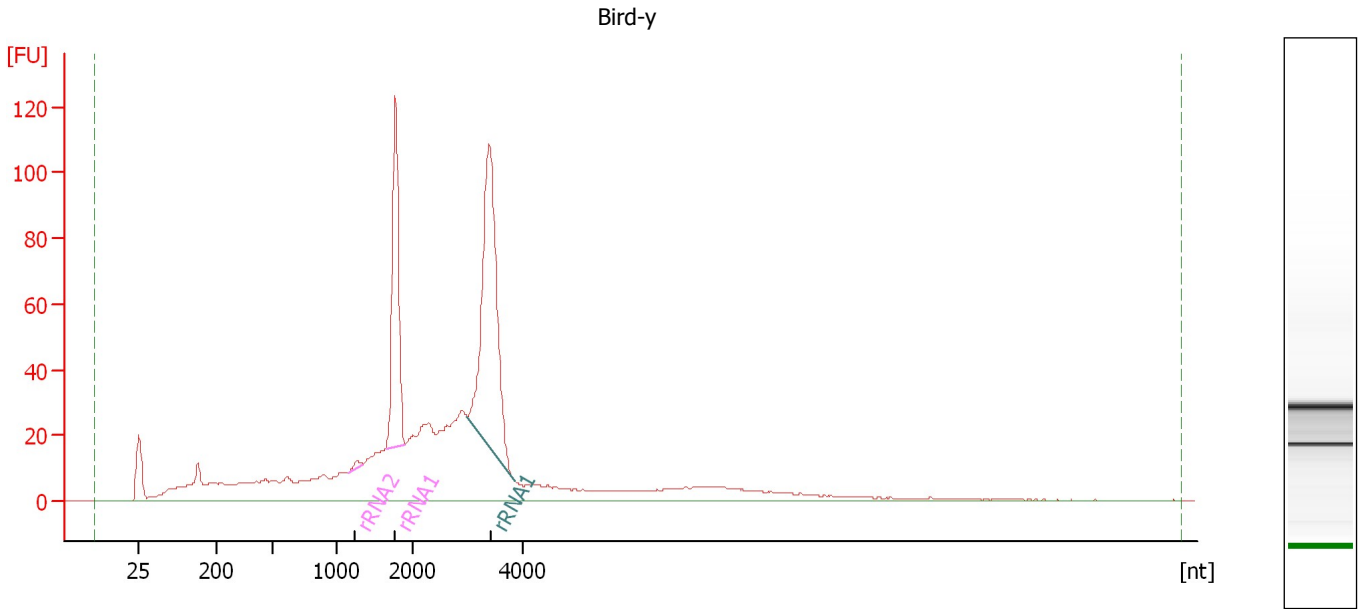
Fragment table for sample 5 : Bird-y

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,119	1,267	3.1	0.2
rRNA1	1,594	1,858	229.5	13.5
rRNA1	3,018	3,757	227.6	13.4

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Bird-y

RNA Area: 1,291.7 rRNA Contamination: 29.4 %
RNA Concentration: 9,050 pg/μl

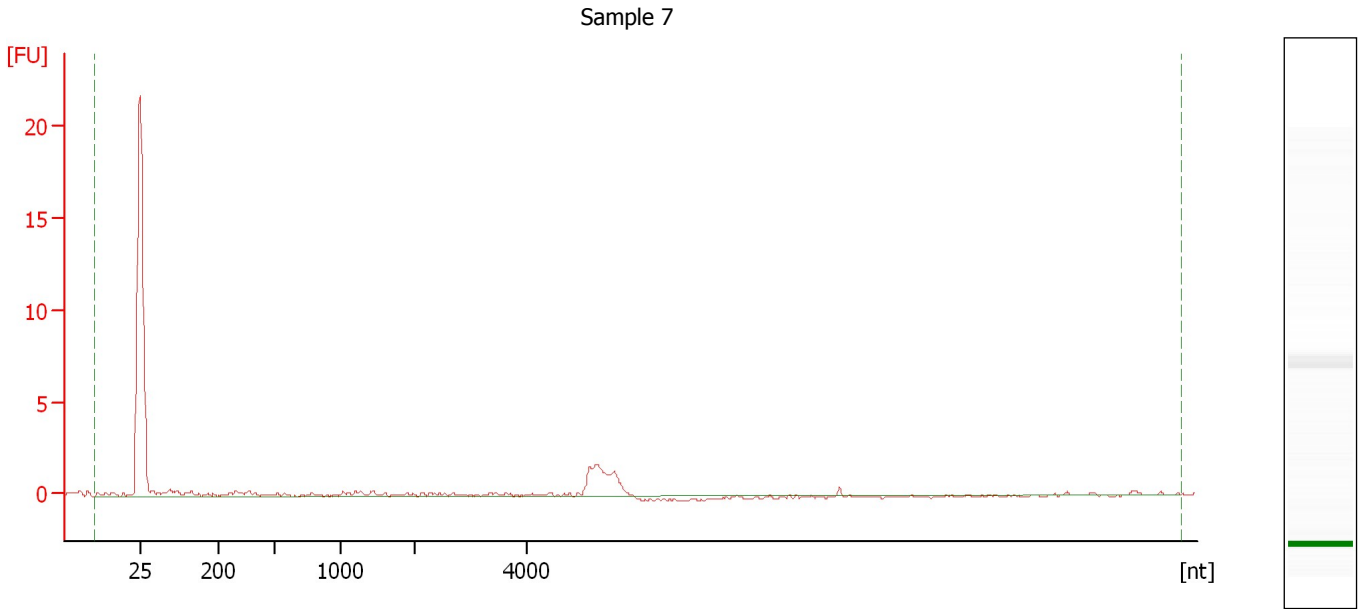
Fragment table for sample 6 : Bird-y

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,160	1,341	3.0	0.2
rRNA1	1,650	1,906	139.3	10.8
rRNA1	2,995	3,858	237.3	18.4

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

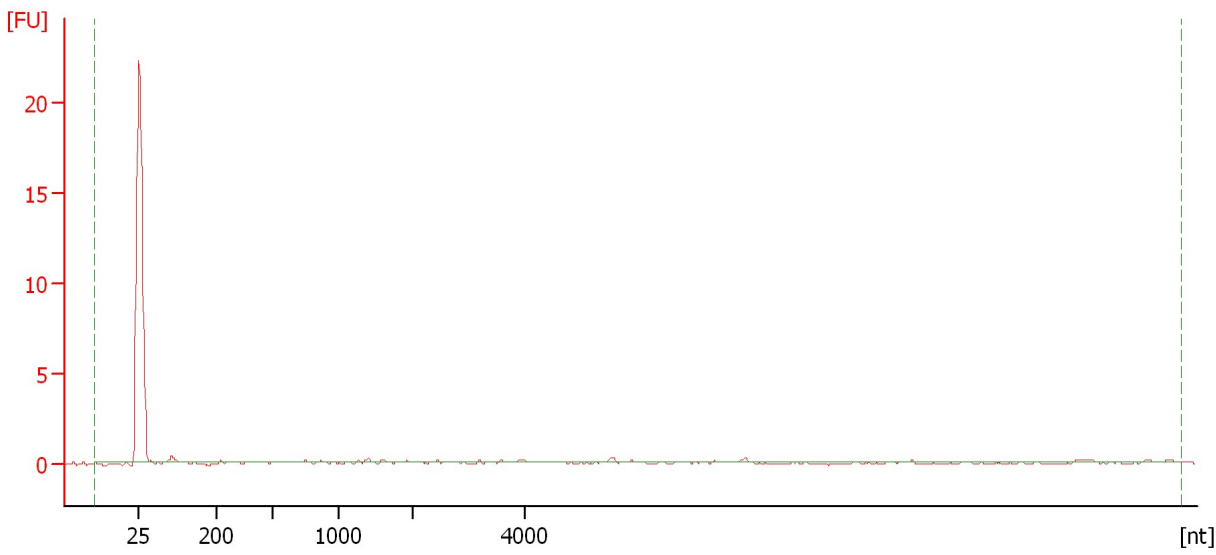
RNA Area:	17.9	rRNA Contamination:	0.0 %
RNA Concentration:	126 pg/ μ l		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

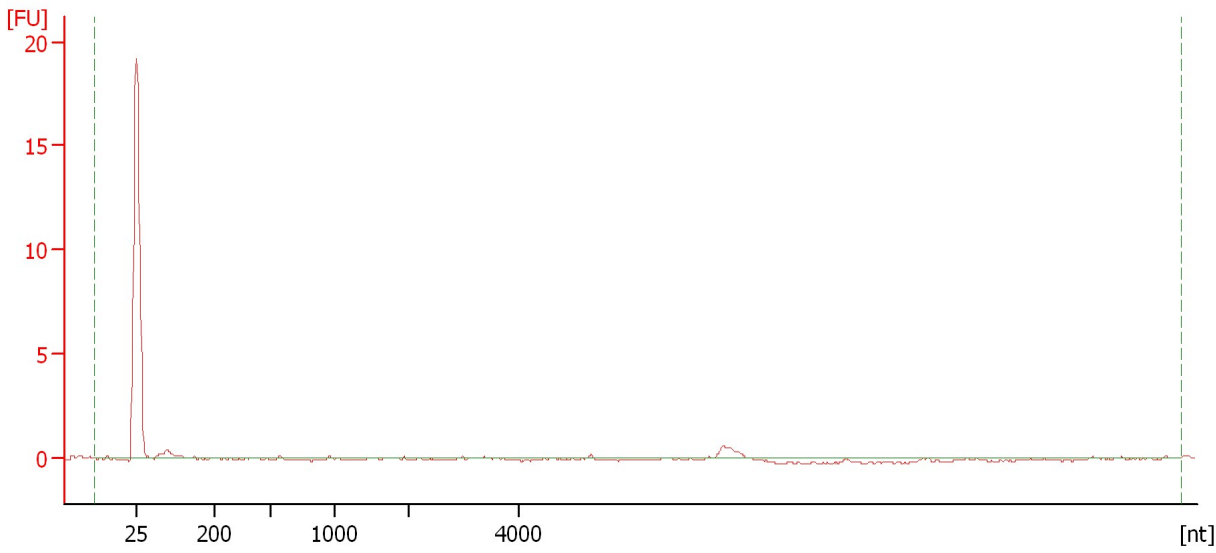
RNA Area:	4.3	rRNA Contamination:	0.0 %
RNA Concentration:	30 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

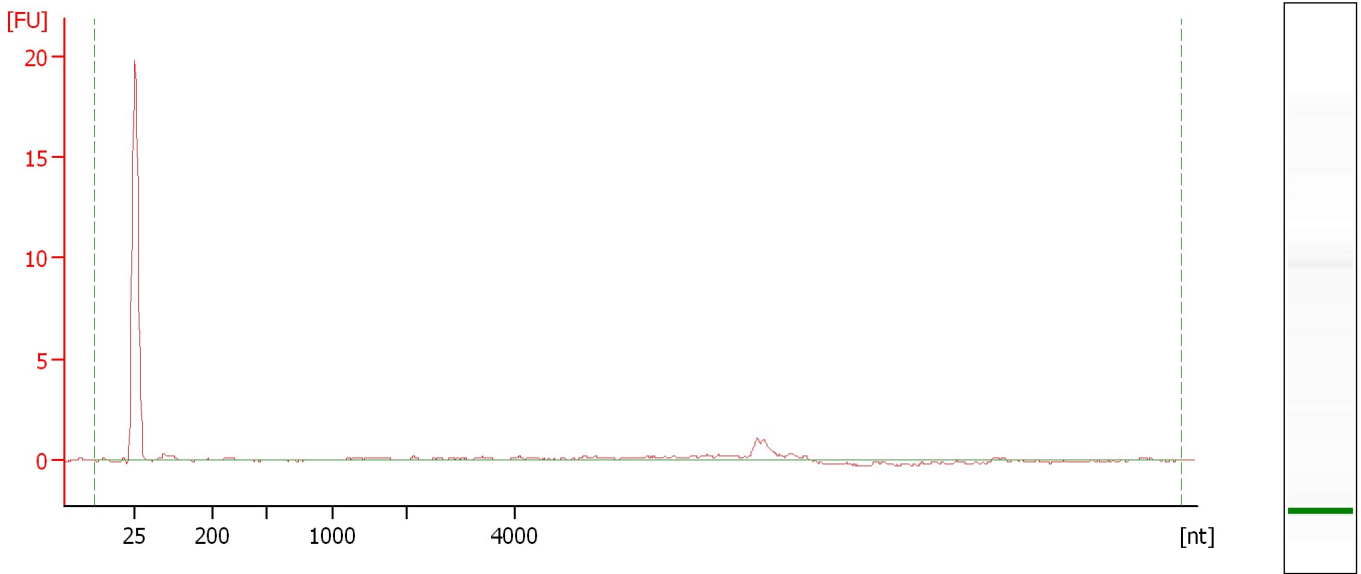
RNA Area:	4.5	rRNA Contamination:	0.0 %
RNA Concentration:	31 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

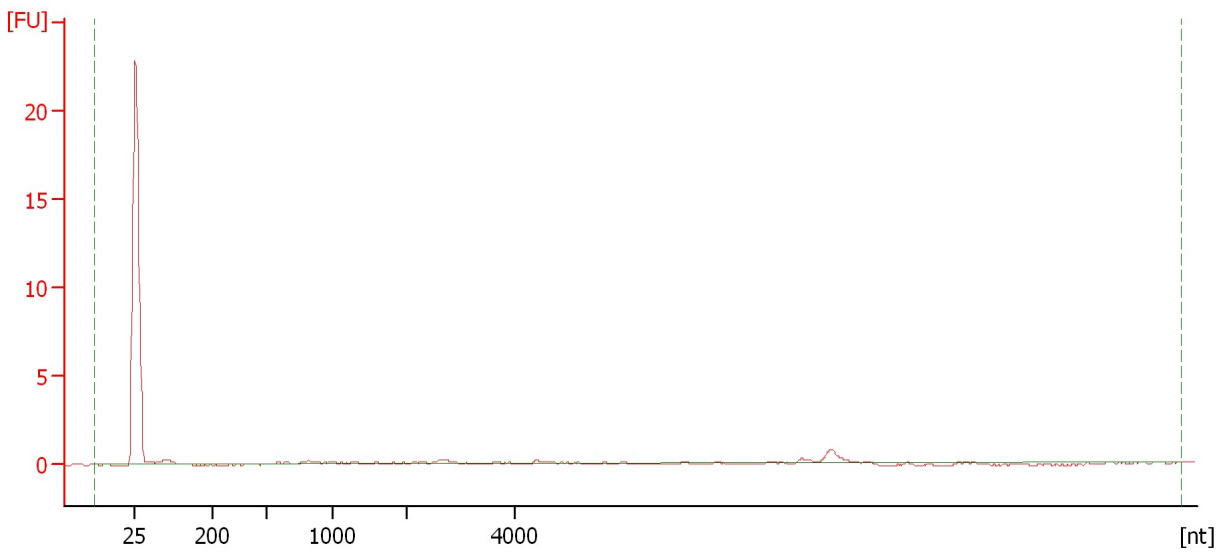
RNA Area:	12.7	rRNA Contamination:	0.0 %
RNA Concentration:	89 pg/ μ l		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Electropherogram Summary Continued ...

Sample 11



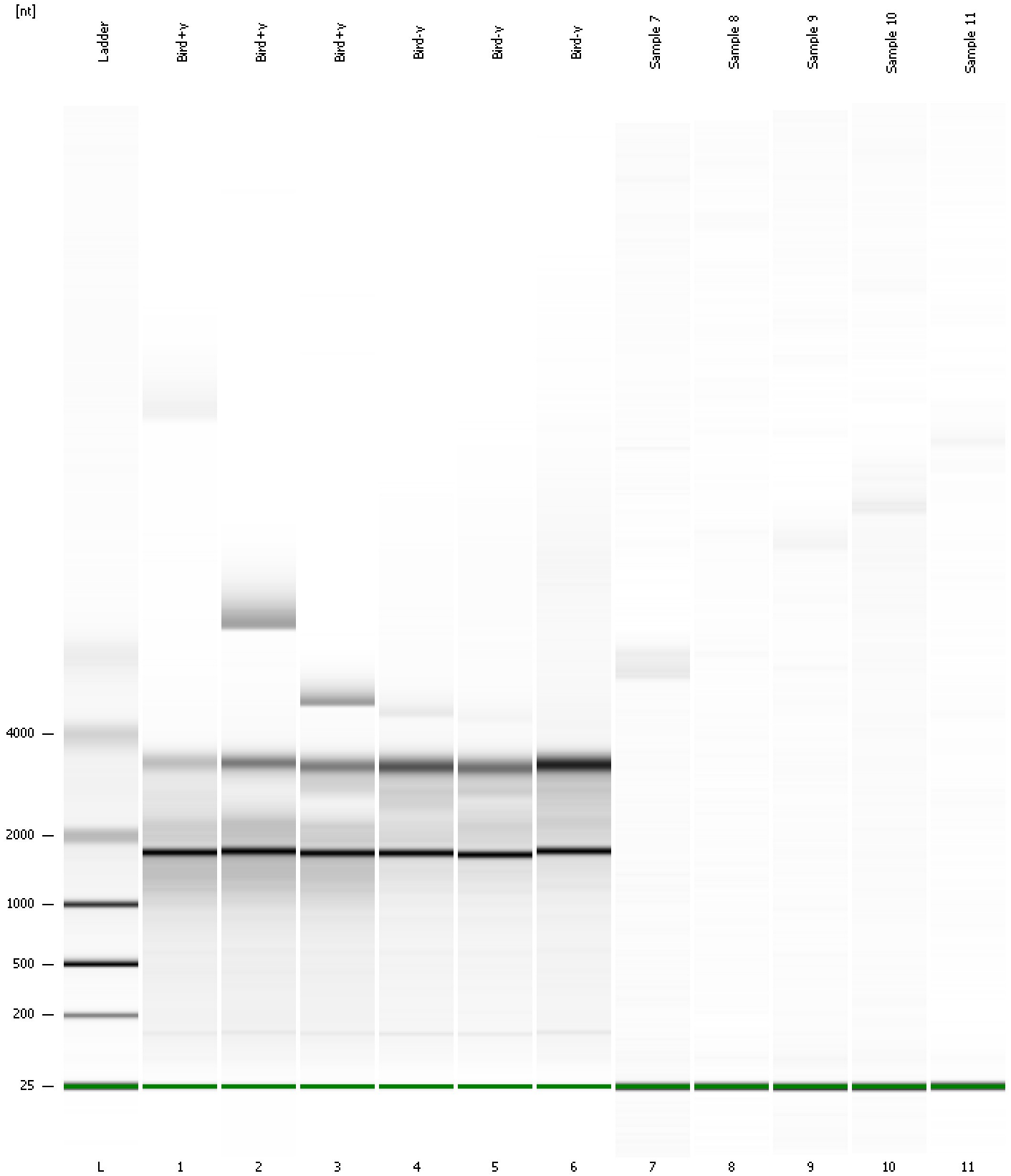
Overall Results for sample 11 : Sample 11

RNA Area:	4.3	rRNA Contamination:	0.0 %
RNA Concentration:	30 pg/ μ l		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
Modified: 11/18/2014 3:12:14 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad

Created: 11/18/2014 2:46:19 PM
 Modified: 11/18/2014 3:12:14 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		11/18/2014 3:12:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-18\2014-11-18_004.xad)		Instrument	Run		11/18/2014 2:46:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/18/2014 2:46:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/18/2014 2:46:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/18/2014 2:46:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/18/2014 2:46:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/18/2014 2:46:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/18/2014 2:46:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1