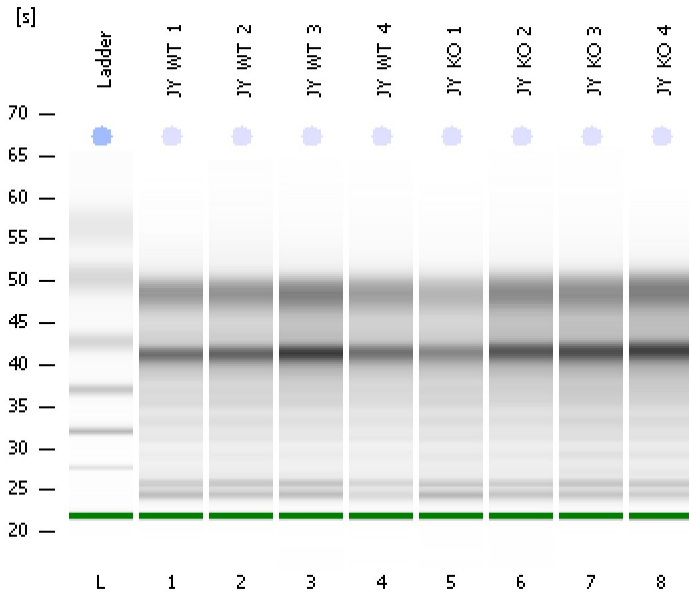


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
Modified: 7/11/2019 4:07:09 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

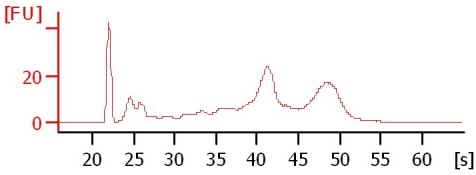
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy  
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

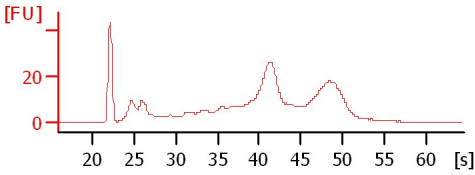
Chip Information:

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

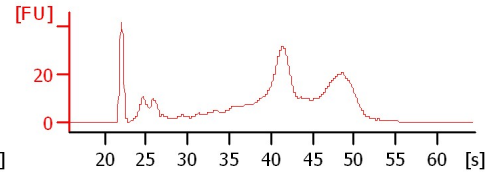
**JY\_WT\_1**  
HiSeq\_1880  
RIN: 8.30



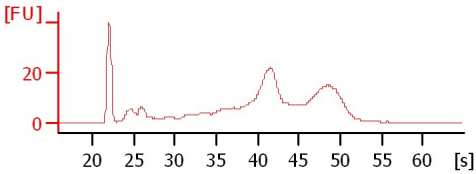
**JY\_WT\_2**  
HiSeq\_1880  
RIN: 8.90



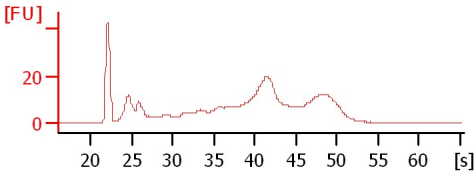
**JY\_WT\_3**  
HiSeq\_1880  
RIN: 8.80



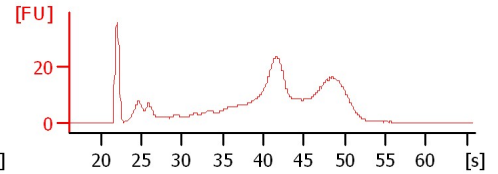
**JY\_WT\_4**  
HiSeq\_1880  
RIN: 8.80



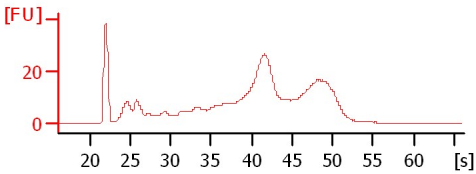
**JY\_KO\_1**  
HiSeq\_1880  
RIN: 7.50



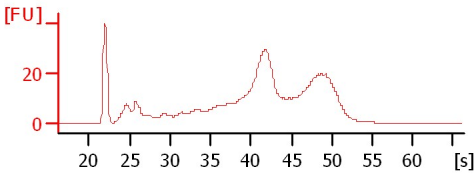
**JY\_KO\_2**  
HiSeq\_1880  
RIN: 8.60



**JY\_KO\_3**  
HiSeq\_1880  
RIN: 7.80



**JY\_KO\_4**  
HiSeq\_1880  
RIN: 7.10



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
JY_WT_1	HiSeq_1880	✓	RIN: 8.30	
JY_WT_2	HiSeq_1880	✓	RIN: 8.90	
JY_WT_3	HiSeq_1880	✓	RIN: 8.80	
JY_WT_4	HiSeq_1880	✓	RIN: 8.80	
JY_KO_1	HiSeq_1880	✓	RIN: 7.50	
JY_KO_2	HiSeq_1880	✓	RIN: 8.60	
JY_KO_3	HiSeq_1880	✓	RIN: 7.80	
JY_KO_4	HiSeq_1880	✓	RIN: 7.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
Modified: 7/11/2019 4:07:09 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/μl] : 1000  
Lower Marker Concentration [pg/μl] : 0  
Upper Marker Concentration [pg/μl] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

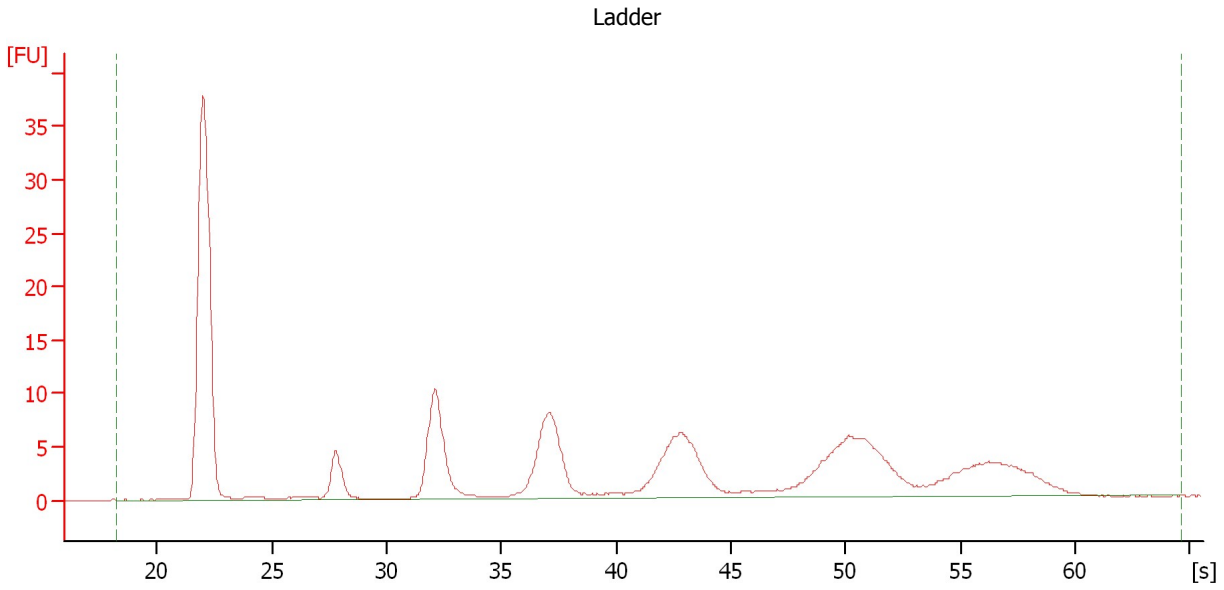
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary**



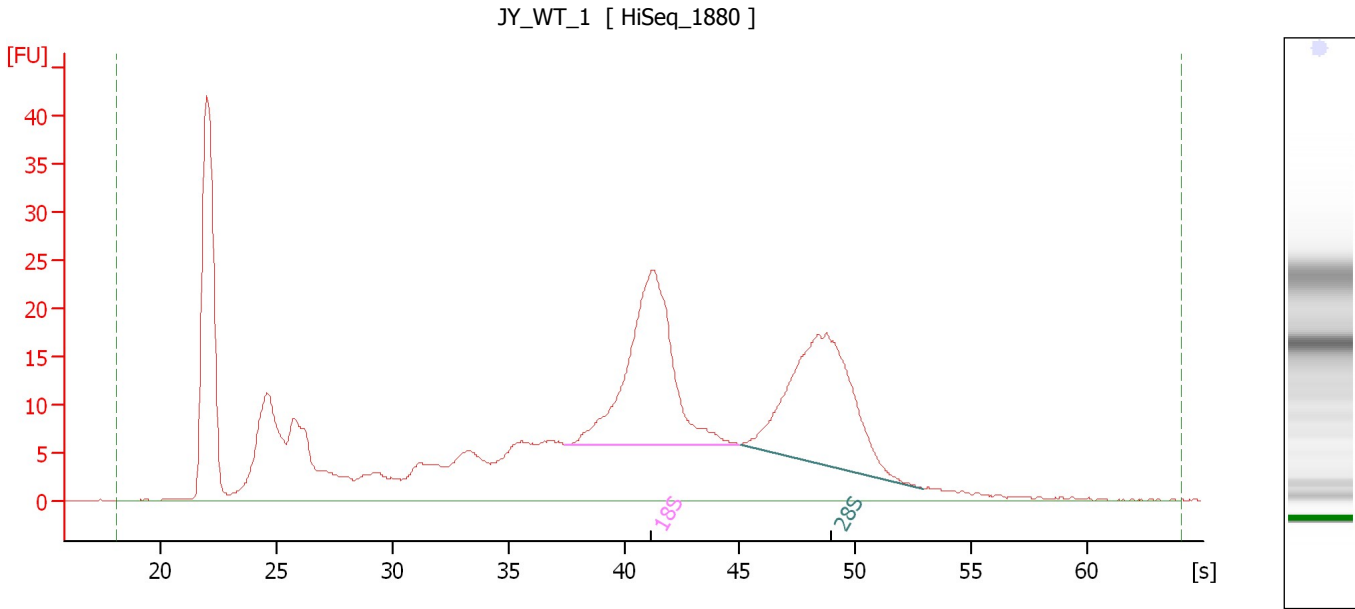
**Overall Results for Ladder**

RNA Area:	163.4	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : JY\_WT\_1**

RNA Area:	586.3	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	3,589 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 8.30

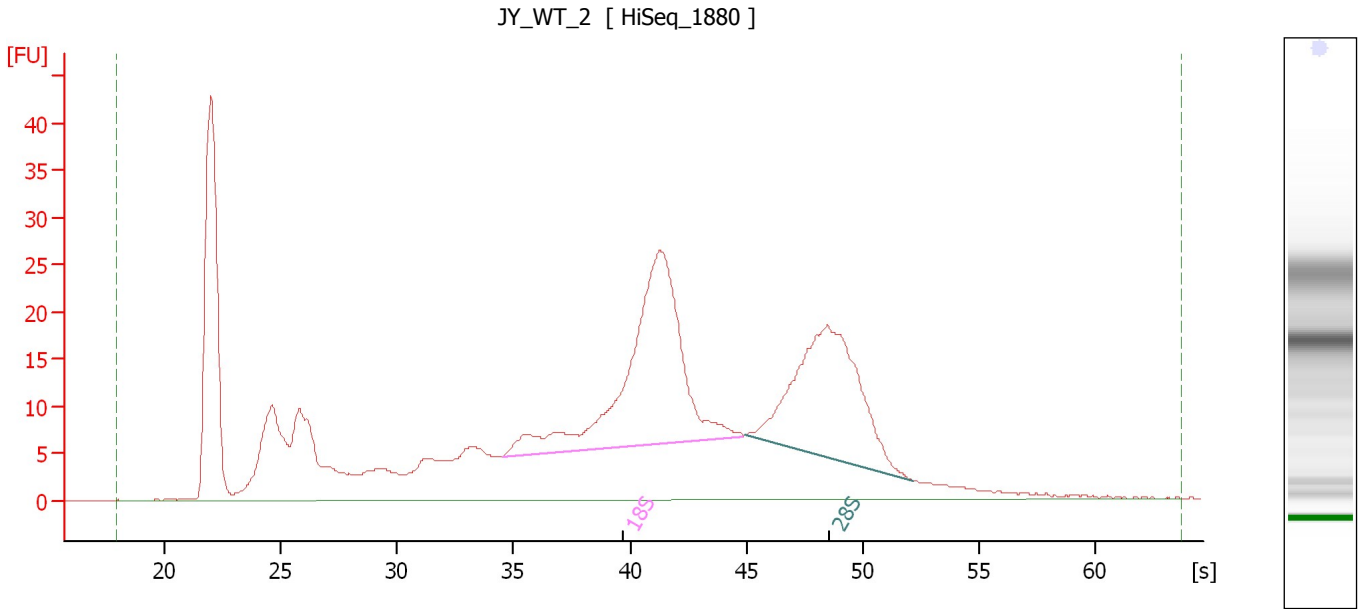
**Fragment table for sample 1 : JY\_WT\_1**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.46	44.97	99.6	17.0
28S	45.07	52.91	89.5	15.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : JY\_WT\_2**

RNA Area:	632.9	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	3,874 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 8.90

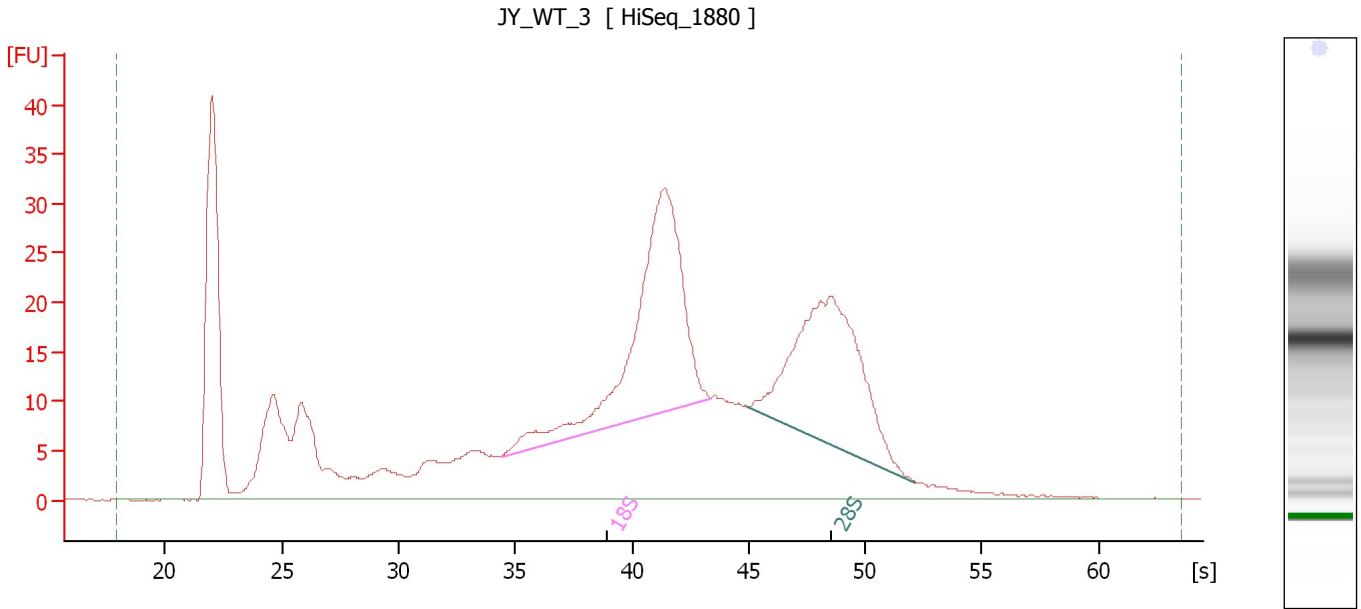
**Fragment table for sample 2 : JY\_WT\_2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.50	44.88	135.1	21.4
28S	44.97	52.16	94.3	14.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : JY\_WT\_3**

RNA Area:	698.0	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	4,273 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 8.80

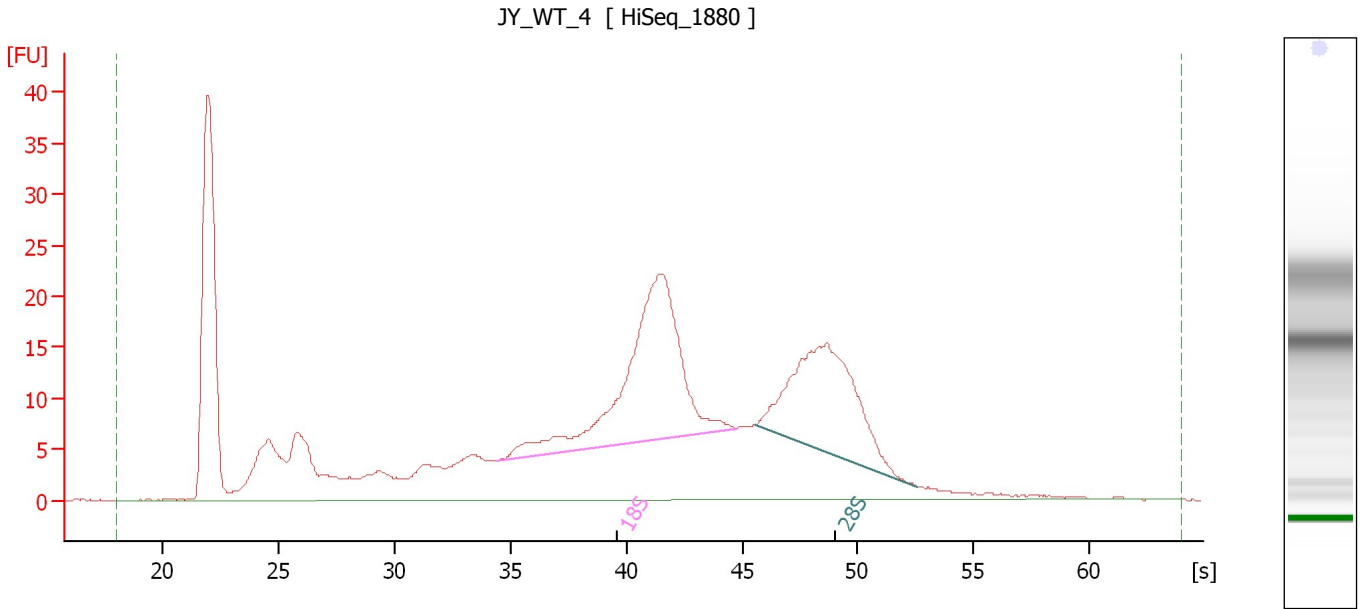
**Fragment table for sample 3 : JY\_WT\_3**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.43	43.36	129.8	18.6
28S	44.97	52.15	103.0	14.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : JY\_WT\_4**

RNA Area:	539.1	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	3,300 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 8.80

**Fragment table for sample 4 : JY\_WT\_4**

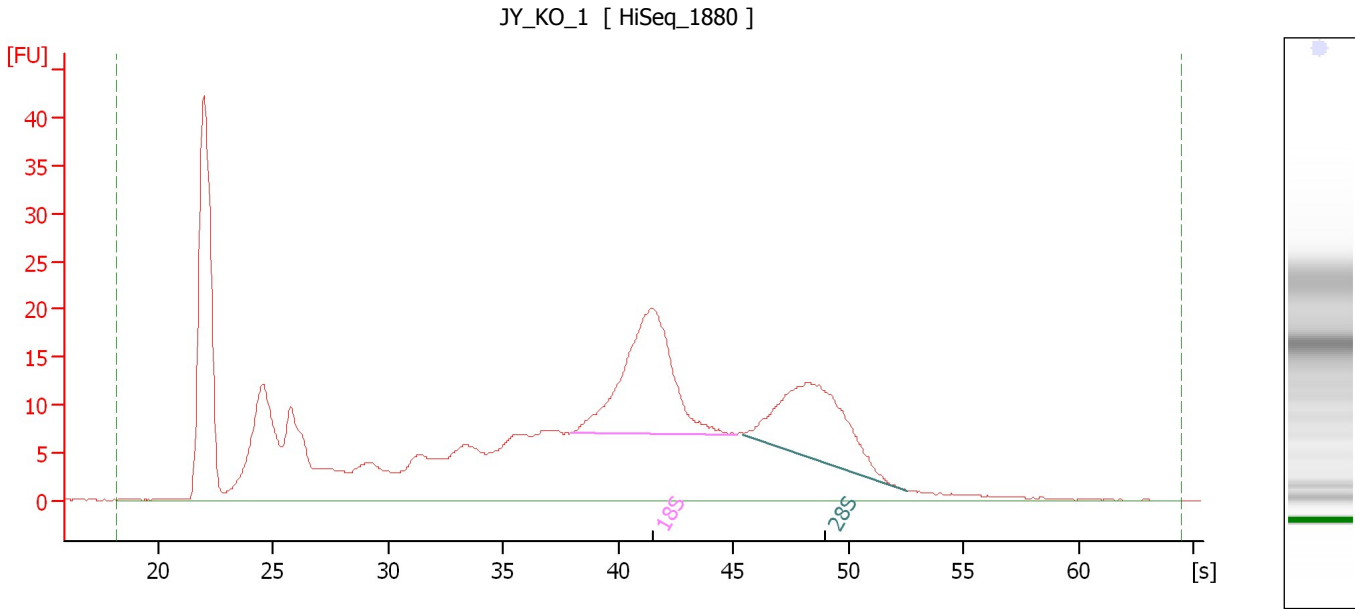
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.41	44.74	108.5	20.1
28S	45.53	52.57	72.2	13.4



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : JY\_KO\_1**

RNA Area:	591.4	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	3,620 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 7.50

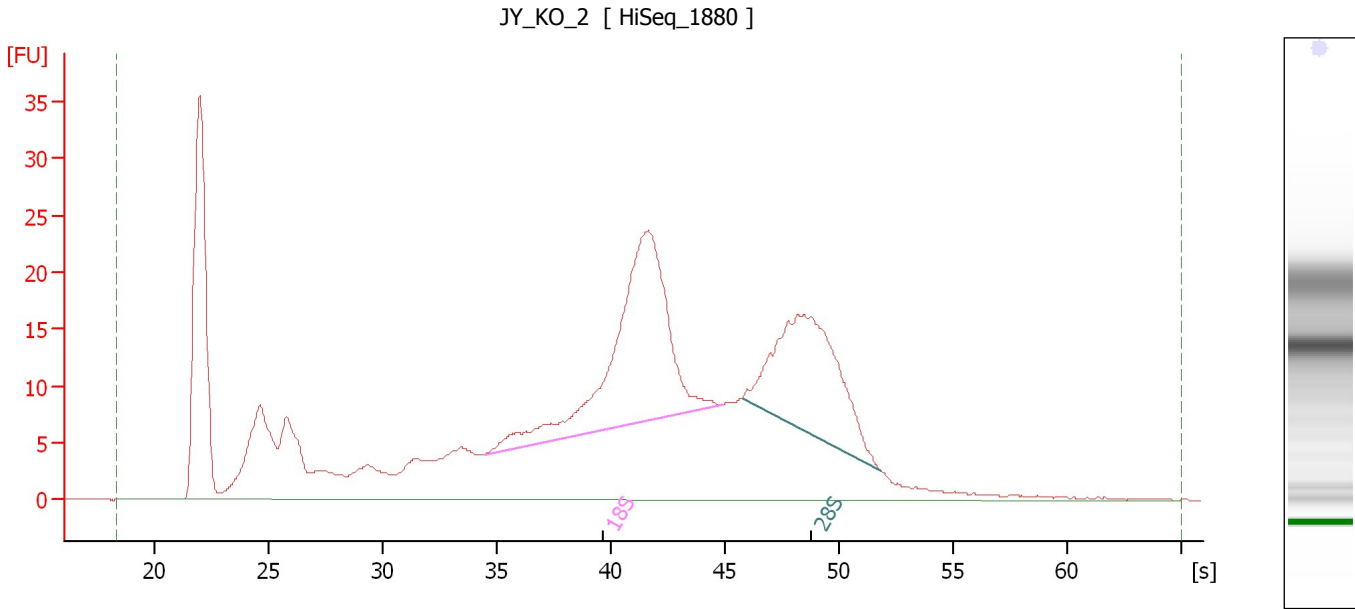
**Fragment table for sample 5 : JY\_KO\_1**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.93	45.12	79.1	13.4
28S	45.45	52.59	56.1	9.5

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : JY\_KO\_2**

RNA Area:	590.8	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	3,616 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 8.60

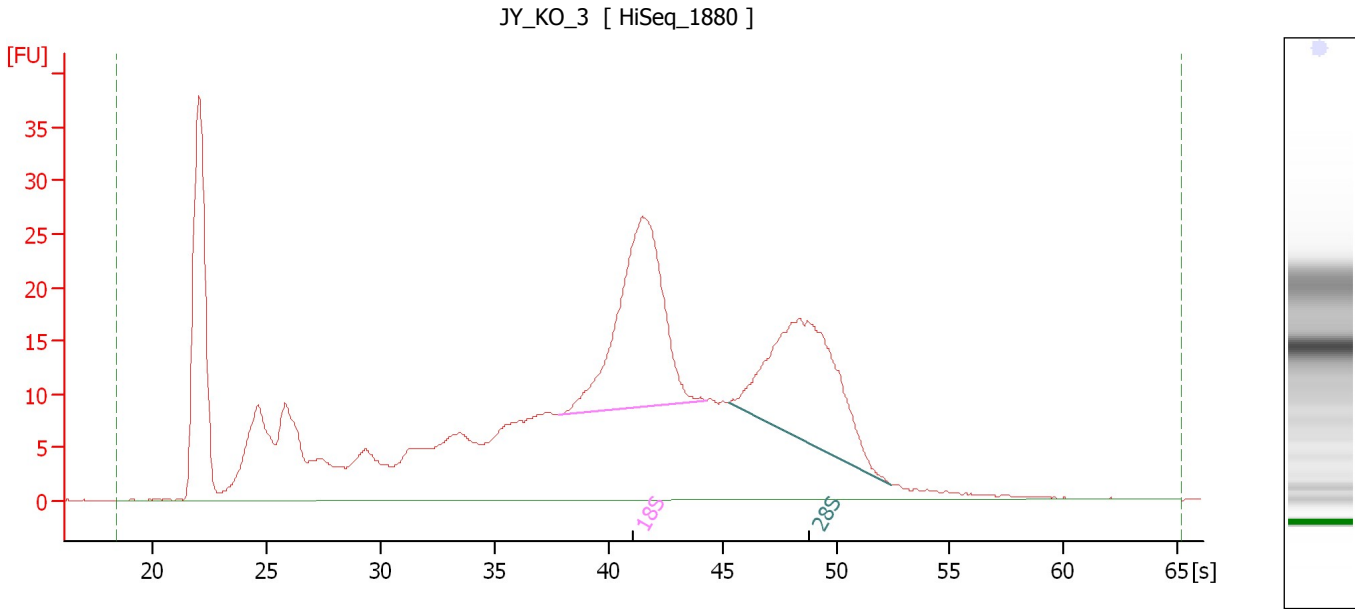
**Fragment table for sample 6 : JY\_KO\_2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.53	44.90	112.4	19.0
28S	45.79	51.87	71.1	12.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : JY\_KO\_3**

RNA Area:	687.1	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	4,206 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 7.80

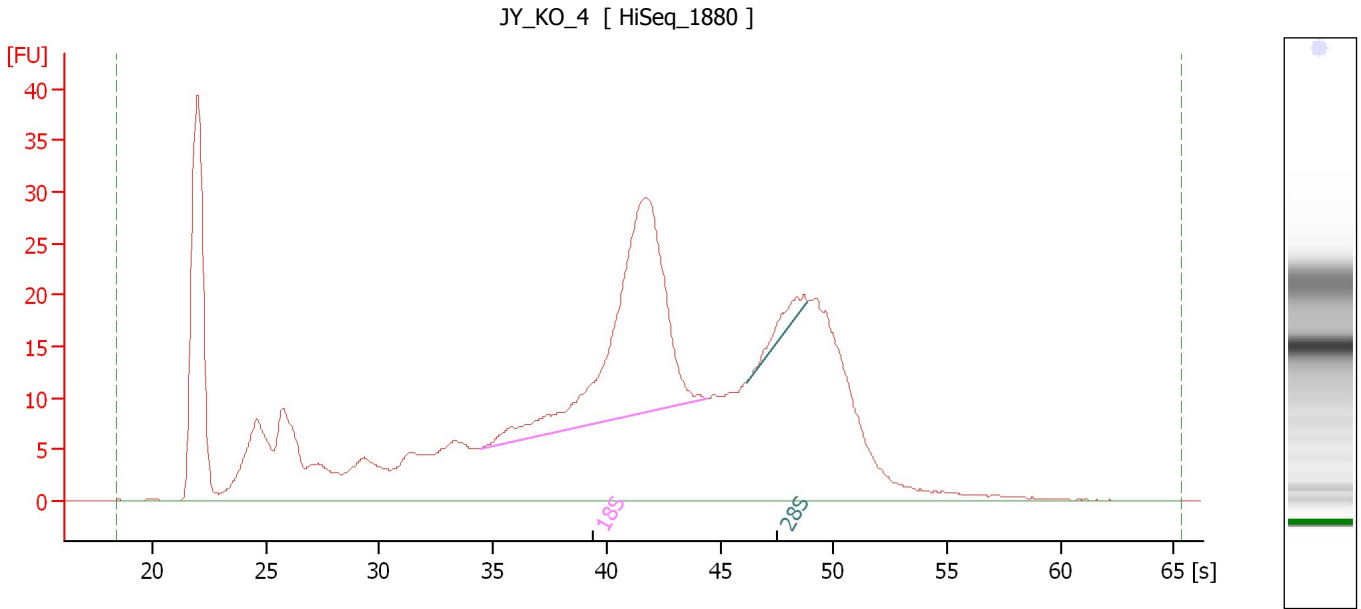
**Fragment table for sample 7 : JY\_KO\_3**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.86	44.28	99.2	14.4
28S	45.32	52.45	83.4	12.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : JY\_KO\_4**

RNA Area:	722.4	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	4,422 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.10

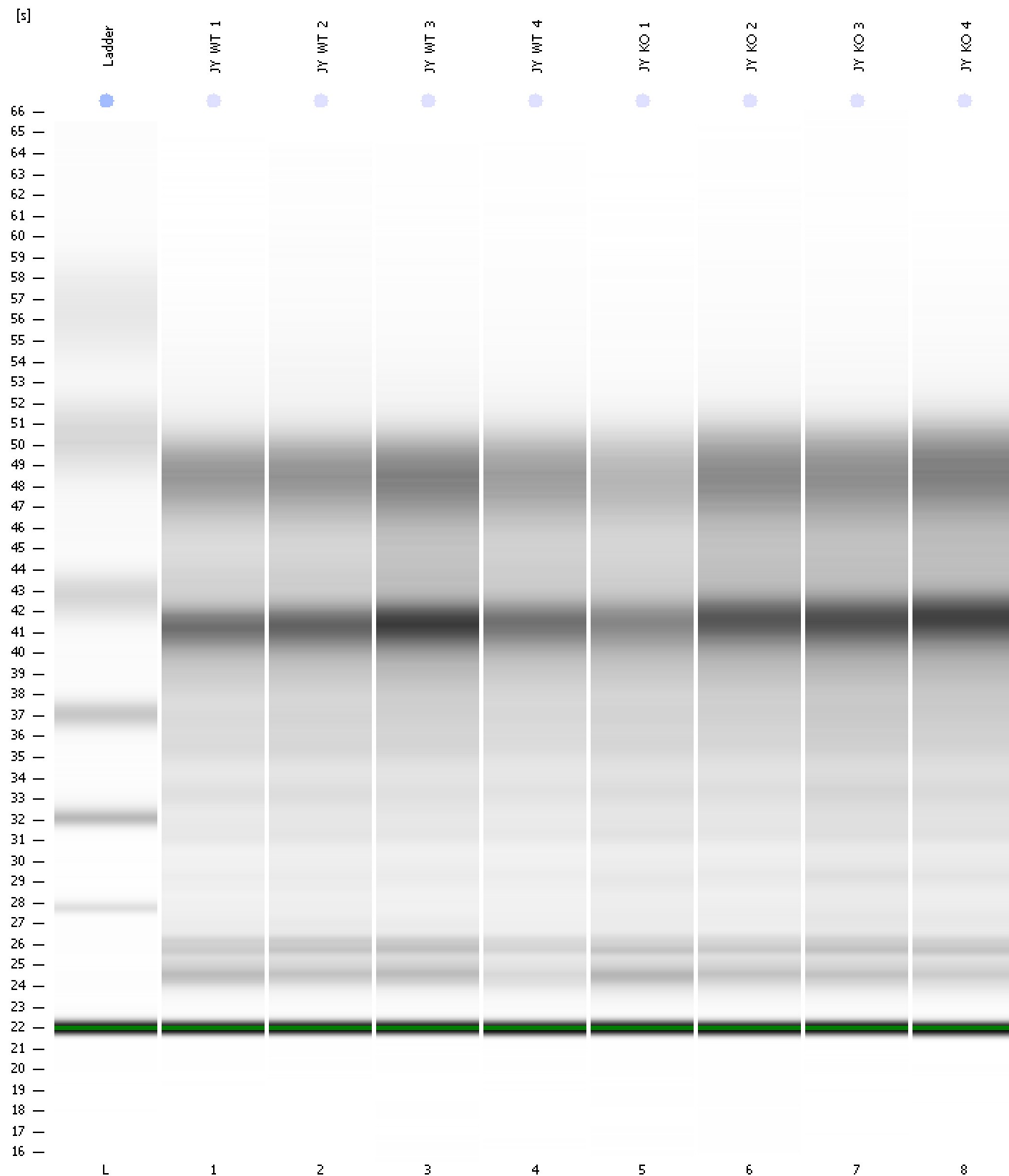
**Fragment table for sample 8 : JY\_KO\_4**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.49	44.43	137.2	19.0
28S	46.18	48.87	6.6	0.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
Modified: 7/11/2019 4:07:09 PM

**Gel Image**

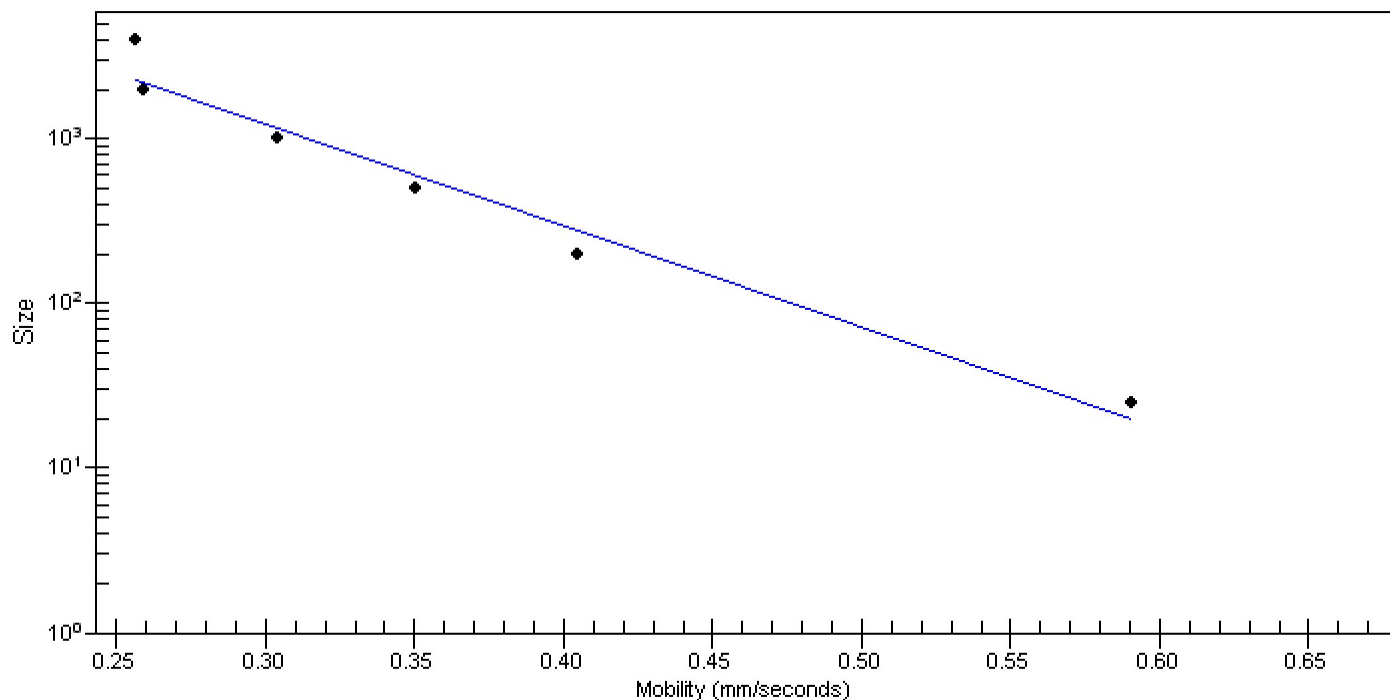


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
Modified: 7/11/2019 4:07:09 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2019-07-11\2019-07-11\_002\_HiSeq1880\_RNAQC.xad

Created: 7/11/2019 3:42:10 PM  
 Modified: 7/11/2019 4:07:09 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		7/11/2019 4:05:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_002.xad)		Instrument	Run		7/11/2019 3:42:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/11/2019 3:42:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/11/2019 3:42:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/11/2019 3:42:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/11/2019 3:42:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/11/2019 3:42:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/11/2019 3:42:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1