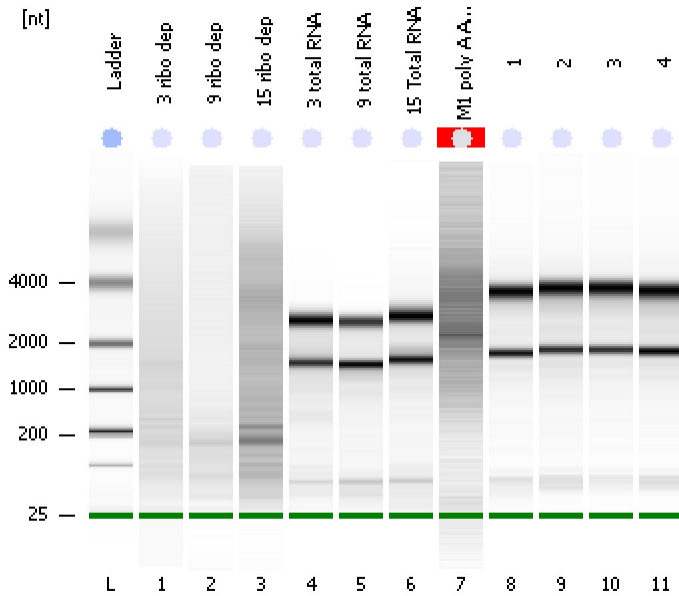


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

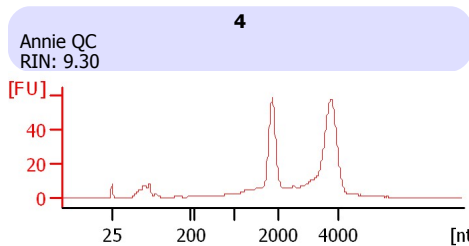
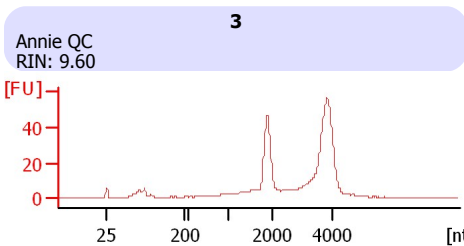
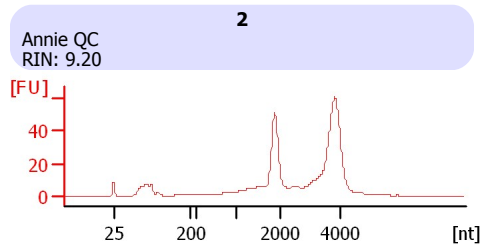
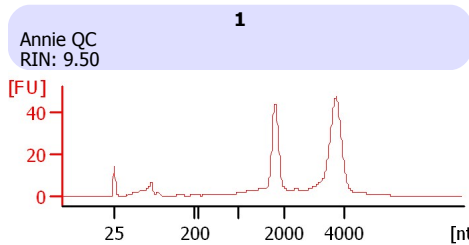
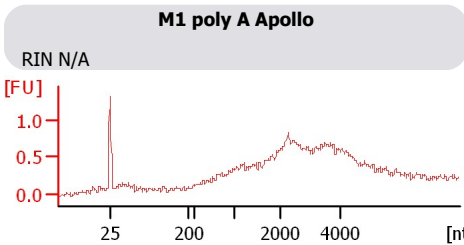
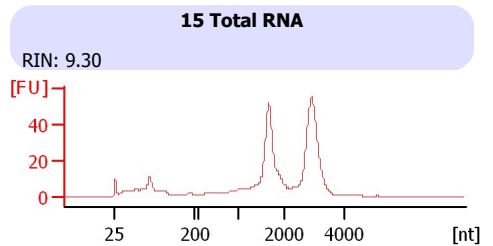
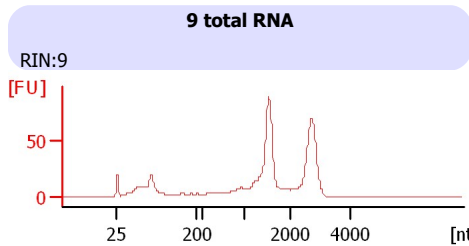
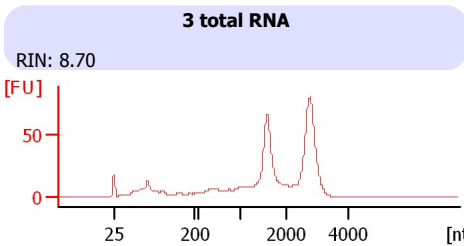
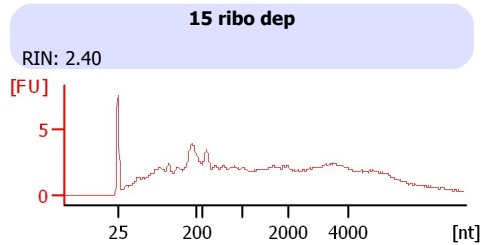
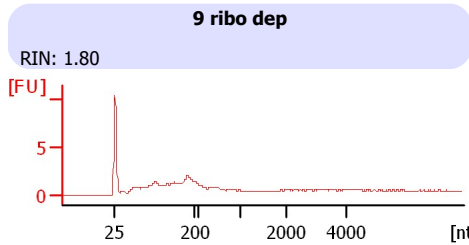
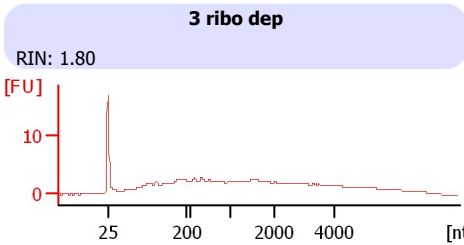
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
 Modified: 6/17/2016 1:13:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
3 ribo dep		✓	RIN: 1.80	
9 ribo dep		✓	RIN: 1.80	
15 ribo dep		✓	RIN: 2.40	
3 total RNA		✓	RIN: 8.70	
9 total RNA		✓	RIN:9	
15 Total RNA		✓	RIN: 9.30	
M1 poly A Apollo		✓	RIN N/A	
1	Annie QC	✓	RIN: 9.50	
2	Annie QC	✓	RIN: 9.20	
3	Annie QC	✓	RIN: 9.60	
4	Annie QC	✓	RIN: 9.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 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

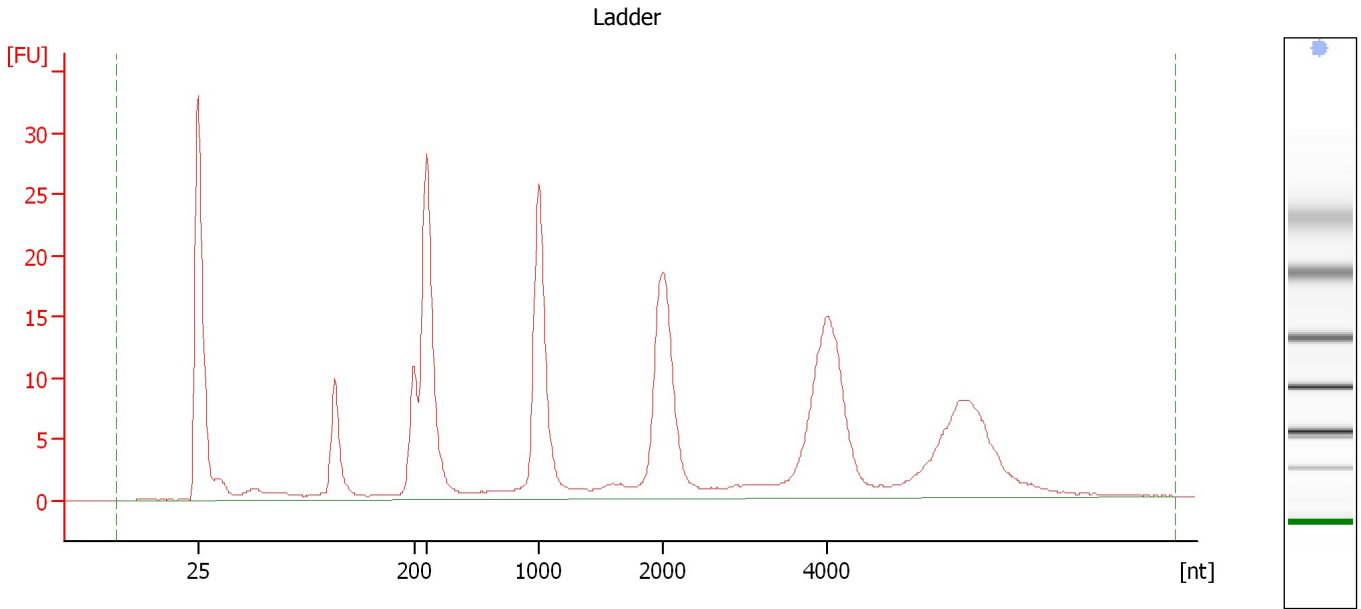
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary



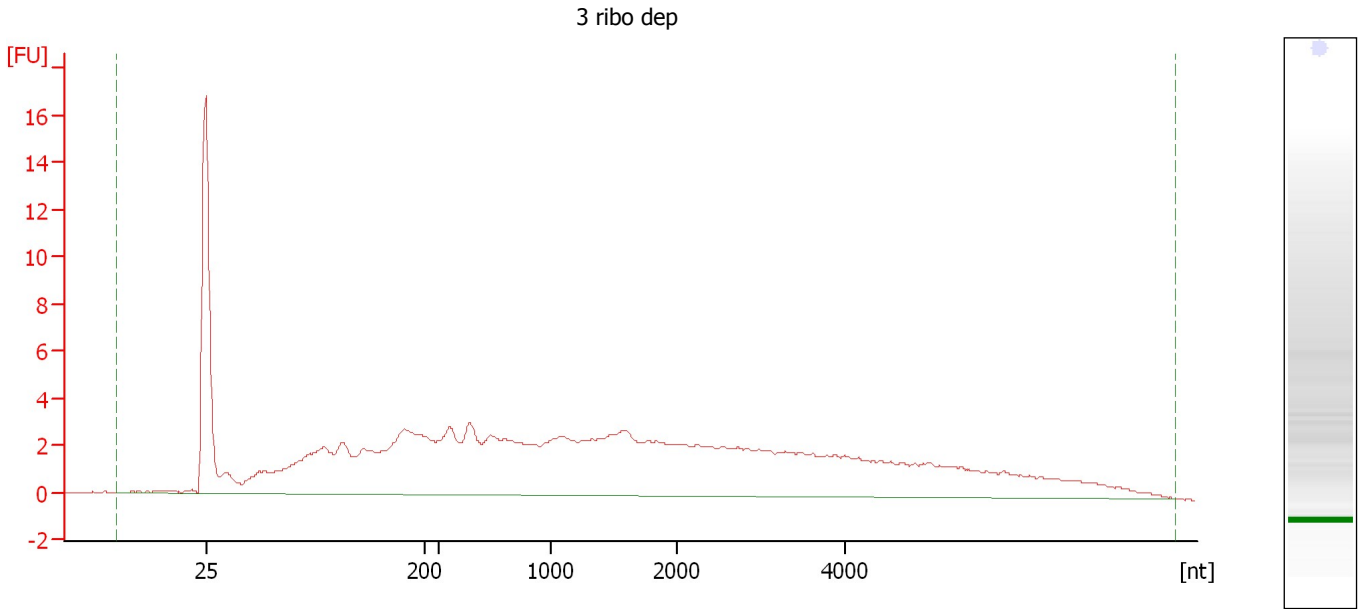
Overall Results for Ladder

RNA Area:	300.7	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



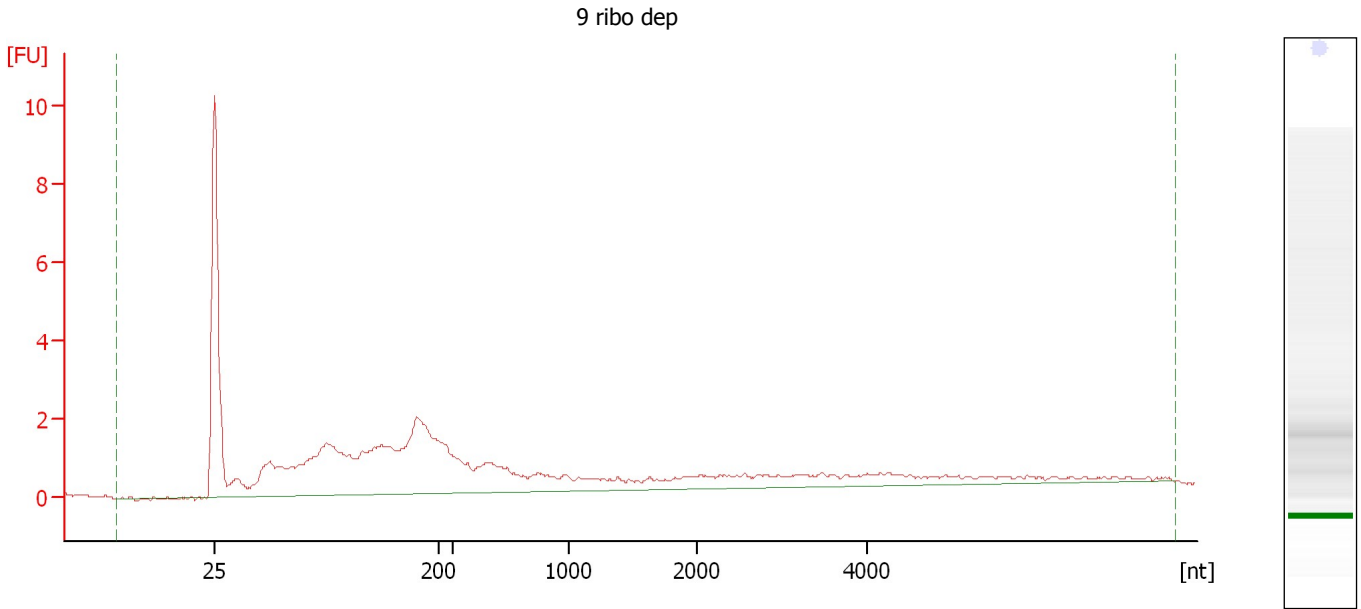
Overall Results for sample 1 : 3 ribo dep

RNA Area:	177.2	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	589 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.80

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



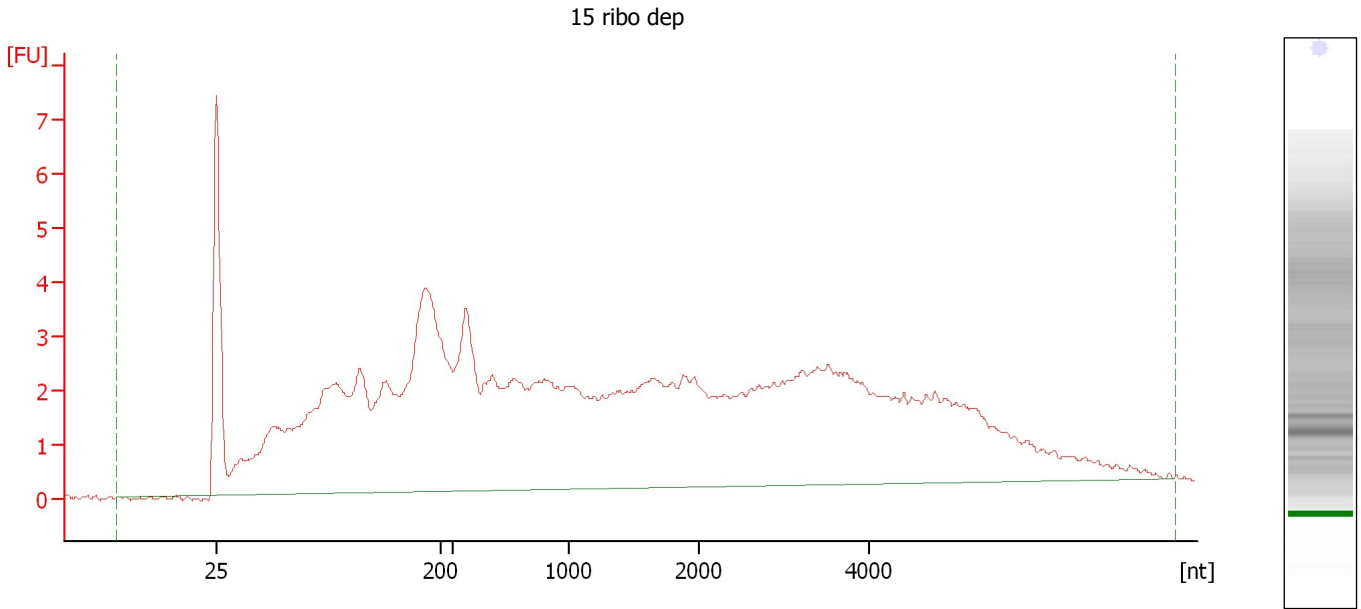
Overall Results for sample 2 : 9 ribo dep

RNA Area:	56.6	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	188 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.80

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



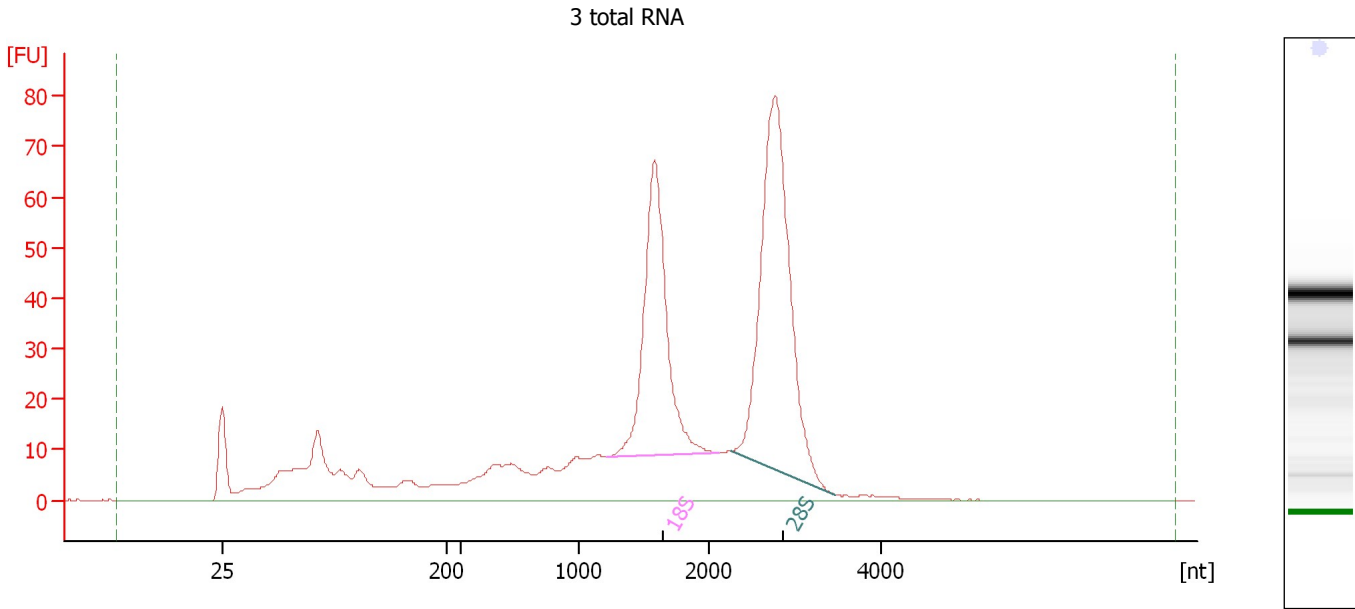
Overall Results for sample 3 : 15 ribo dep

RNA Area:	167.3	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	556 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 3 total RNA

RNA Area:	832.0	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	2,767 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.70

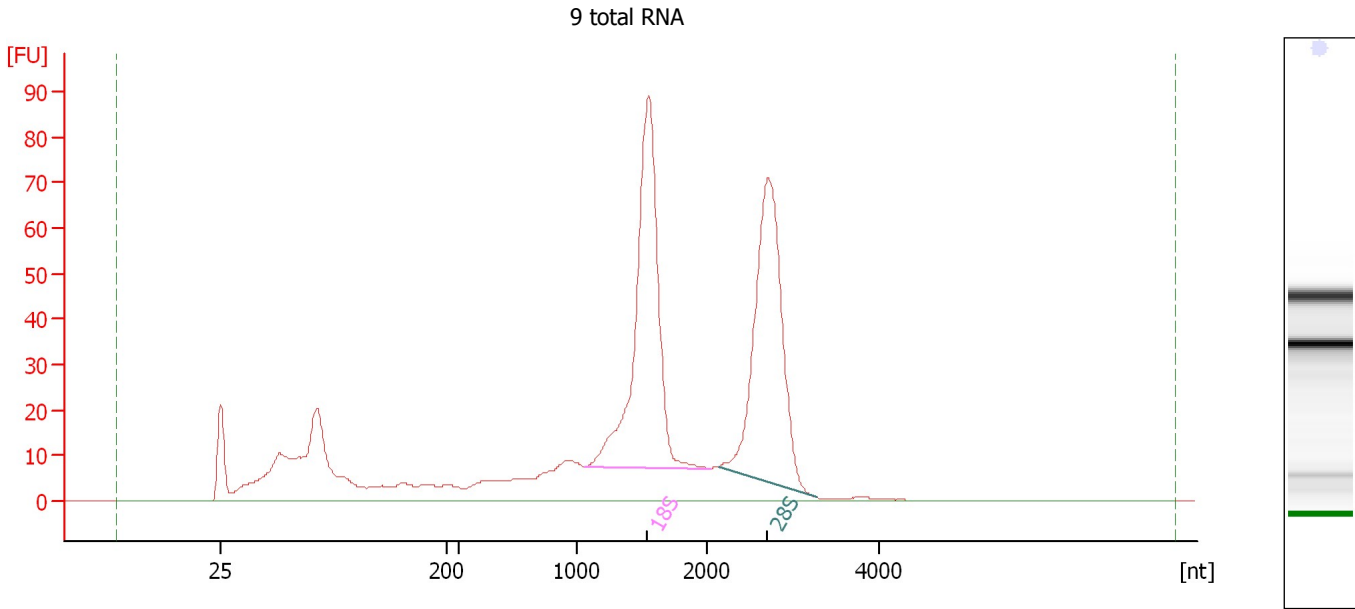
Fragment table for sample 4 : 3 total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,213	2,129	159.0	19.1
28S	2,266	3,469	230.5	27.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 9 total RNA

RNA Area: 857.9 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 2,853 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN:9

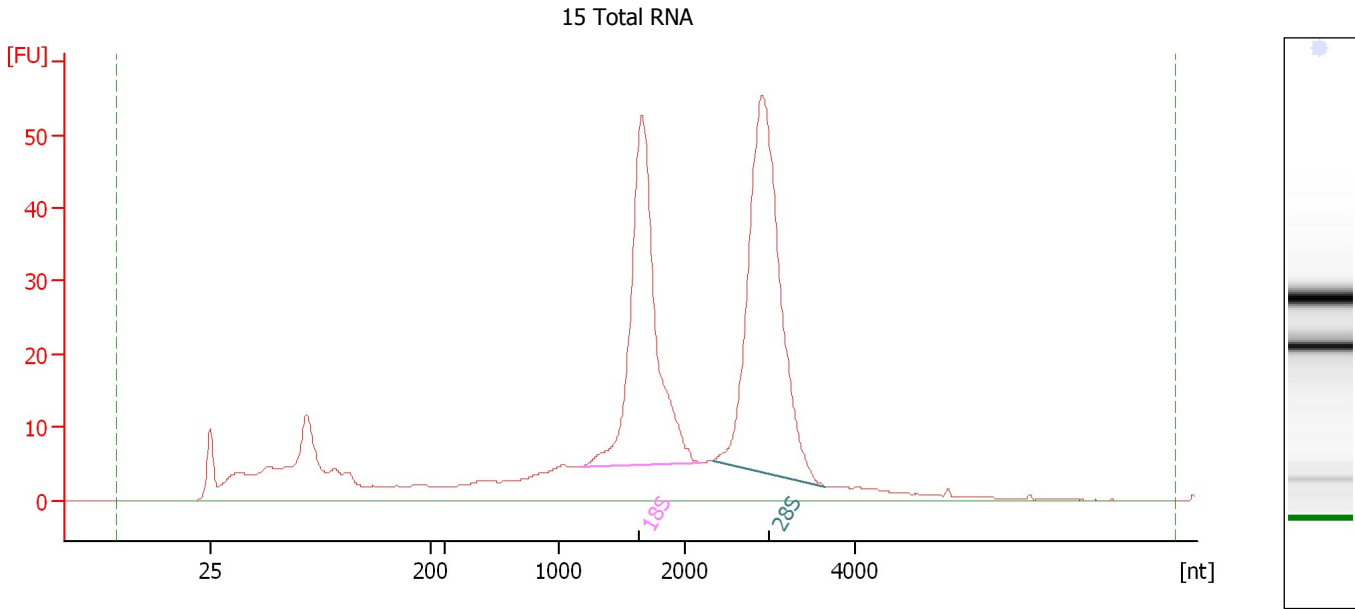
Fragment table for sample 5 : 9 total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,062	2,042	223.4	26.0
28S	2,141	3,284	197.8	23.1

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
 Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 15 Total RNA

RNA Area:	633.6	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	2,107 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 9.30

Fragment table for sample 6 : 15 Total RNA

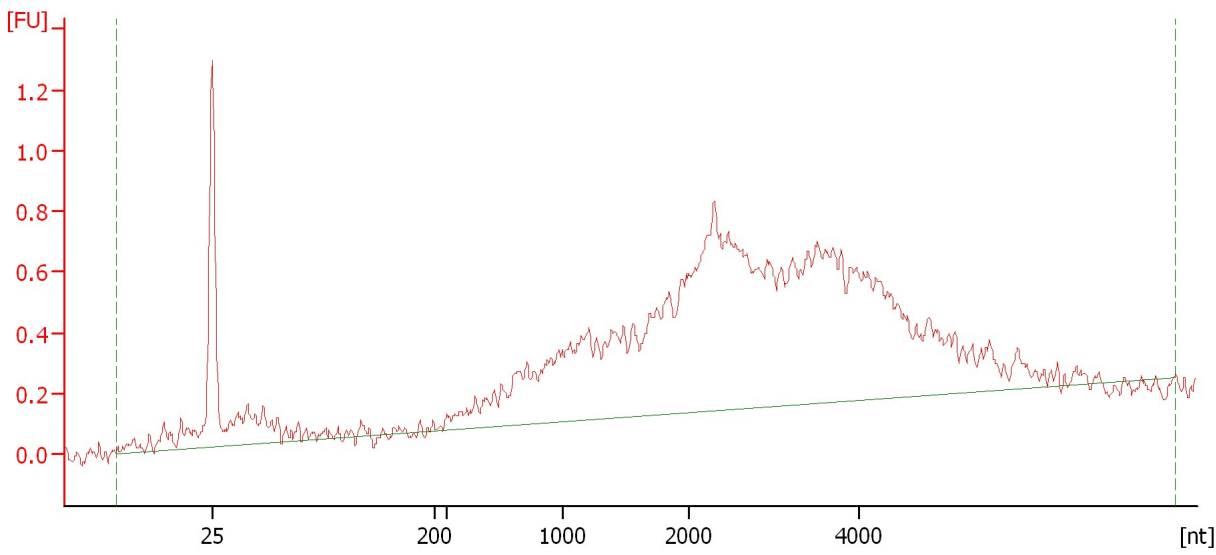
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,163	2,174	145.2	22.9
28S	2,313	3,645	177.7	28.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad


Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...

M1 poly A Apollo



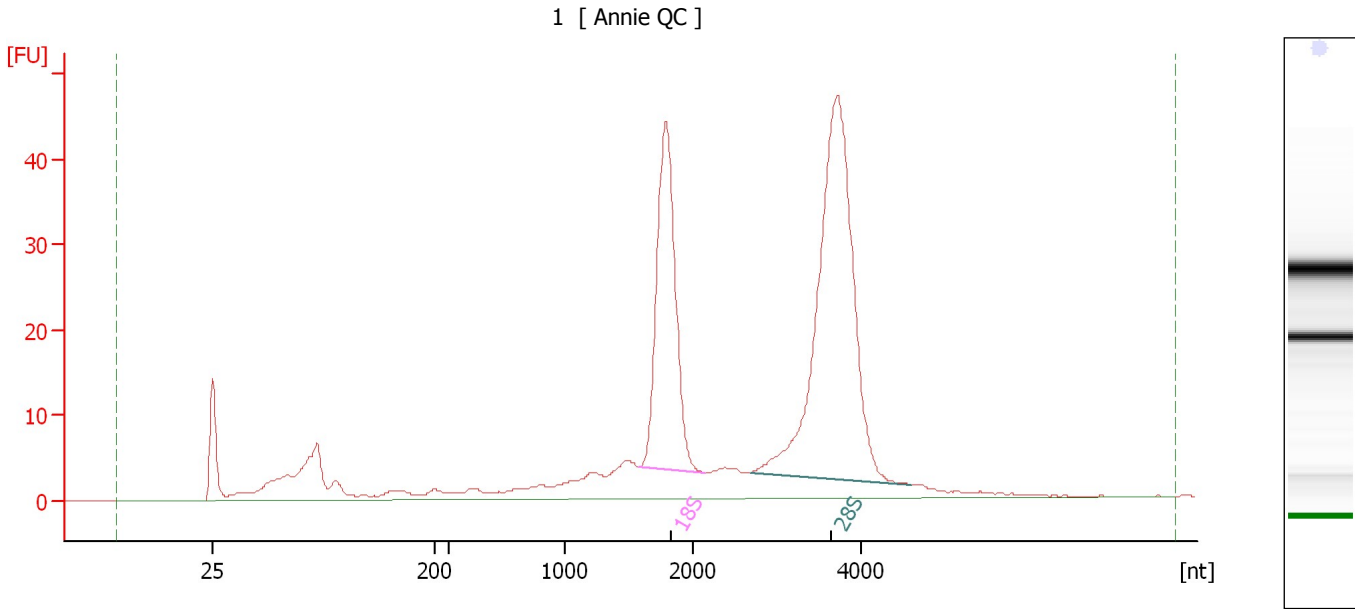
Overall Results for sample 7 : M1 poly A Apollo

RNA Area:	18.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	61 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1

RNA Area:	424.9	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	1,413 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.50

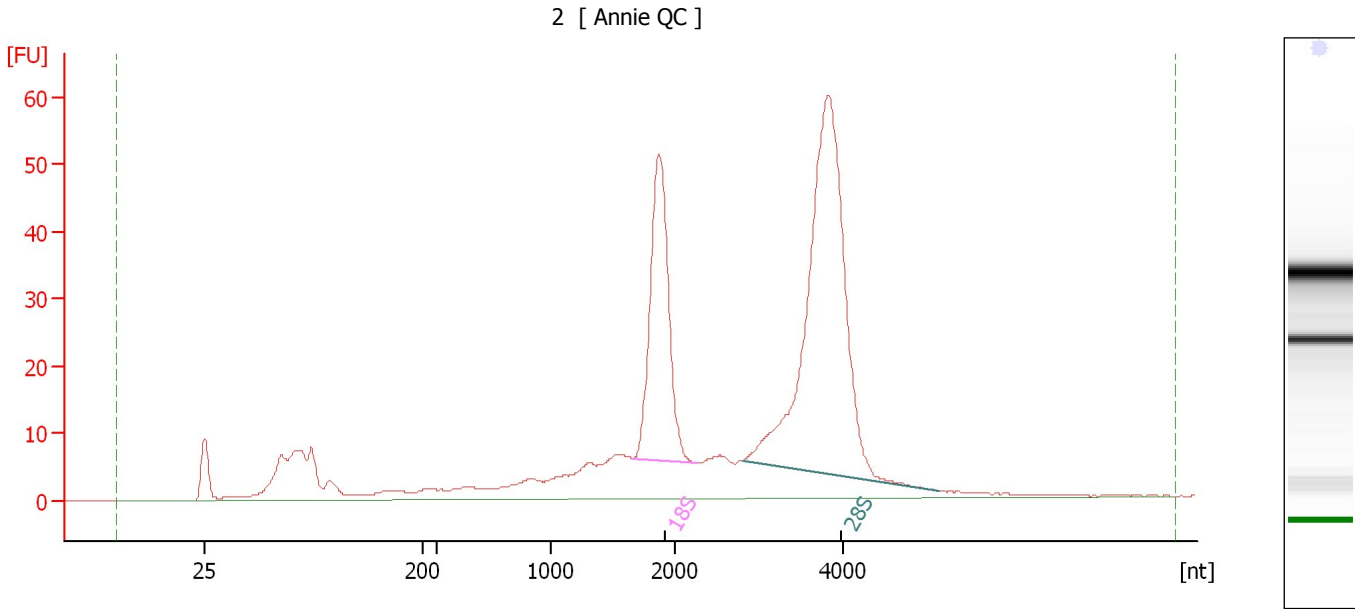
Fragment table for sample 8 : 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	2,163	91.1	21.4
28S	2,692	4,583	162.5	38.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
 Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 2

RNA Area:	594.7	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	1,977 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.20

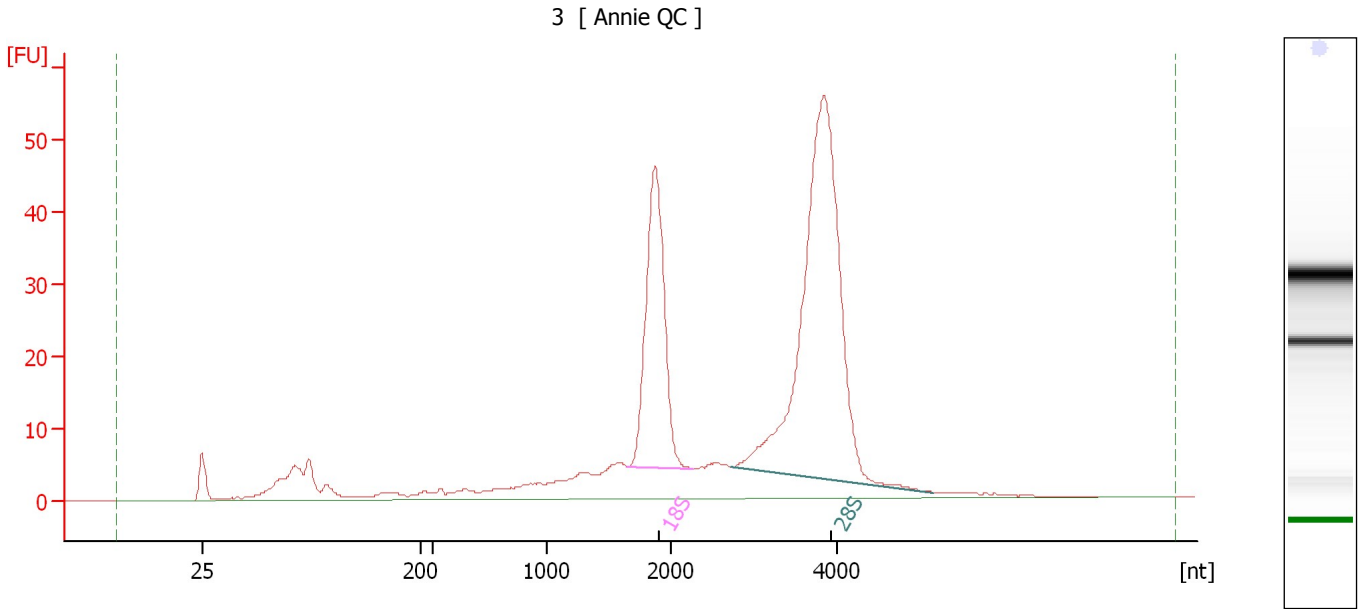
Fragment table for sample 9 : 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	2,248	100.8	17.0
28S	2,800	5,159	217.2	36.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 3

RNA Area:	501.3	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	1,667 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.60

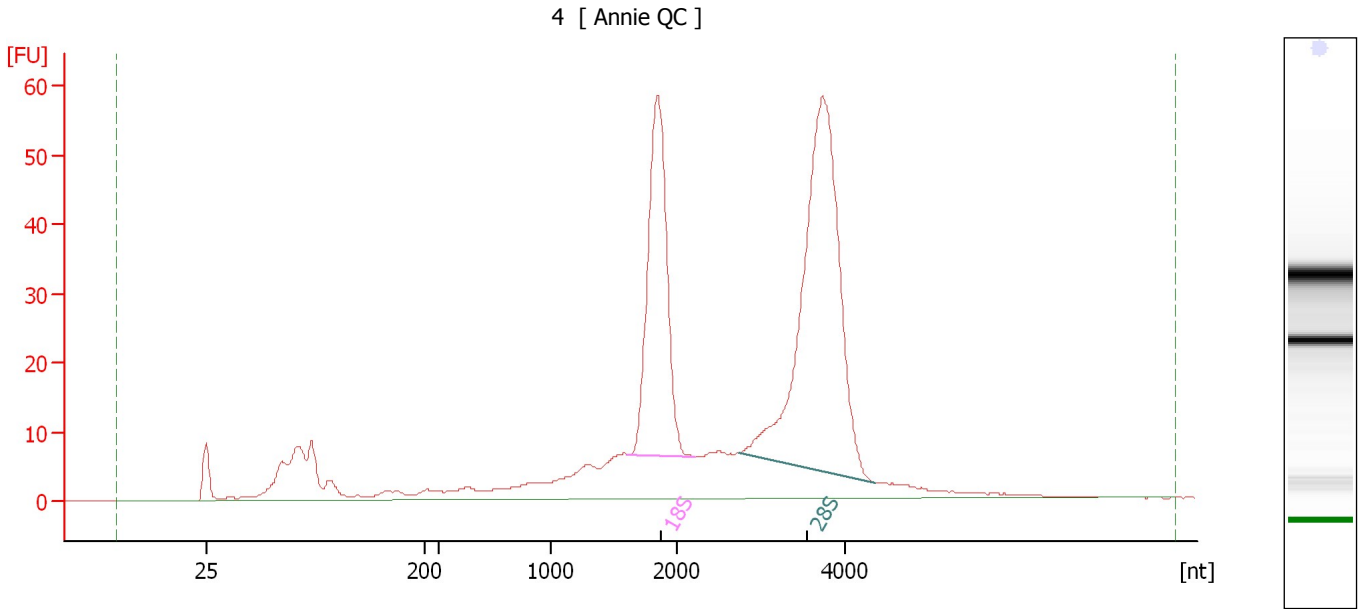
Fragment table for sample 10 : 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	2,260	92.2	18.4
28S	2,724	5,145	202.2	40.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 4

RNA Area:	604.6	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	2,010 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.30

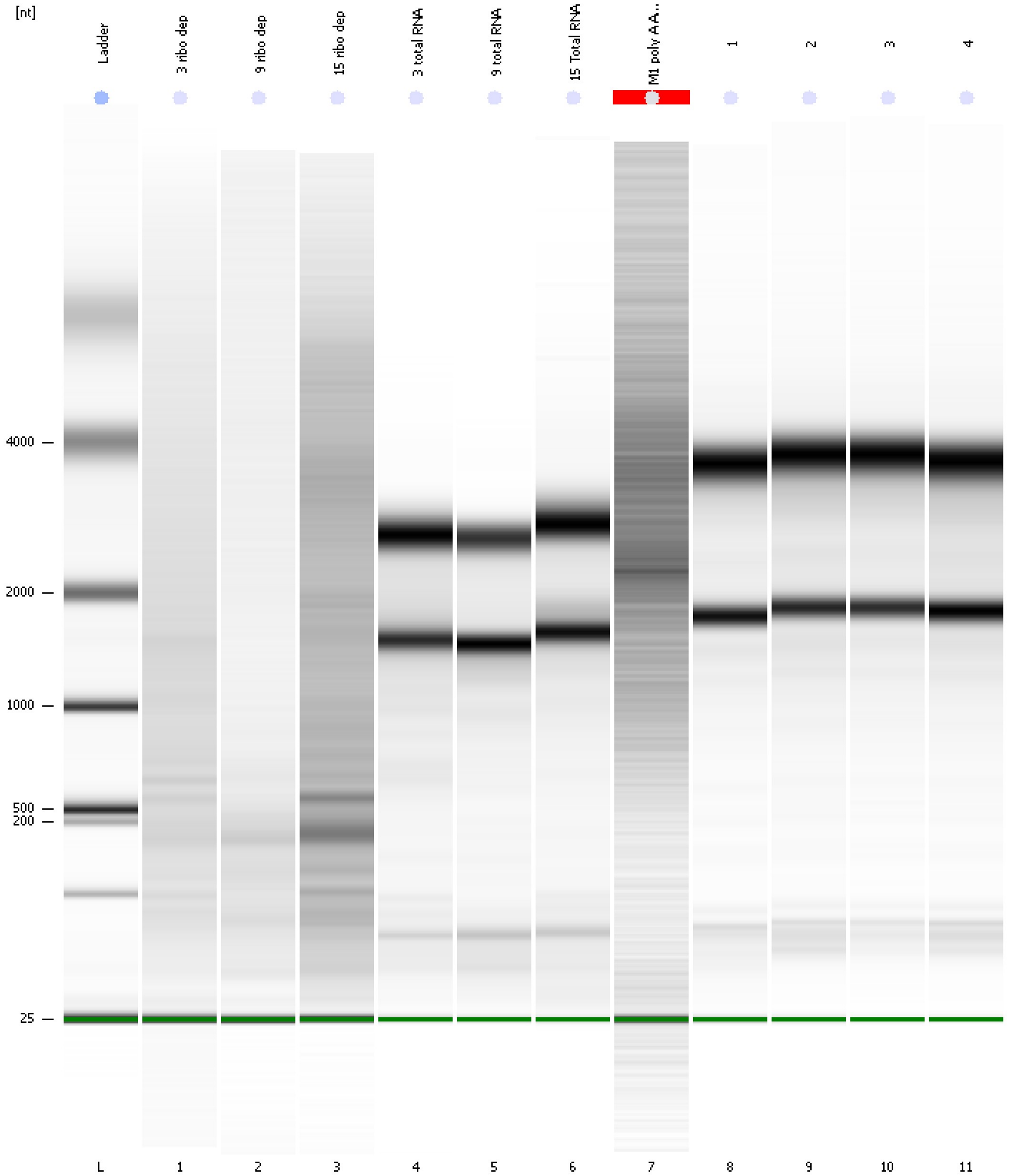
Fragment table for sample 11 : 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	2,210	119.8	19.8
28S	2,748	4,360	208.8	34.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
Modified: 6/17/2016 1:13:30 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_002.xad

Created: 6/17/2016 12:50:35 PM
 Modified: 6/17/2016 1:13:30 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		6/17/2016 1:13:29 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\2016-06-17\2016-06-17_002.xad)		Instrument	Run		6/17/2016 12:50:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/17/2016 12:50:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/17/2016 12:50:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/17/2016 12:50:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/17/2016 12:50:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/17/2016 12:50:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/17/2016 12:50:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1