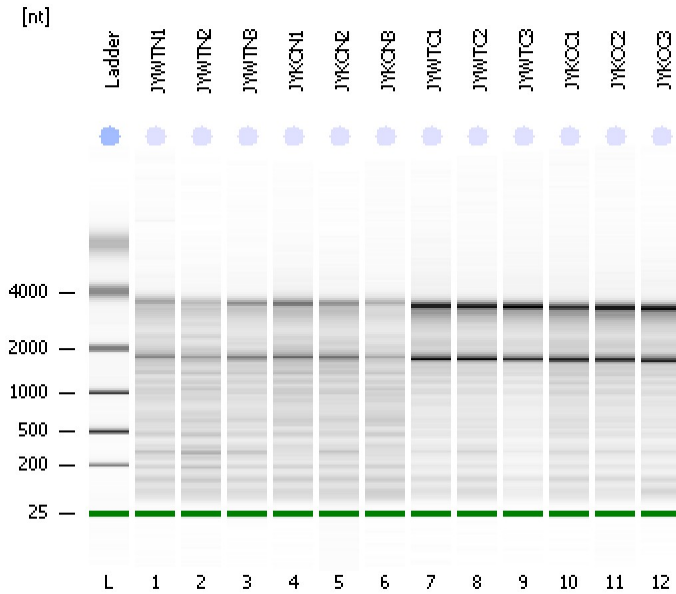


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electrophoresis File Run Summary



Instrument Information:

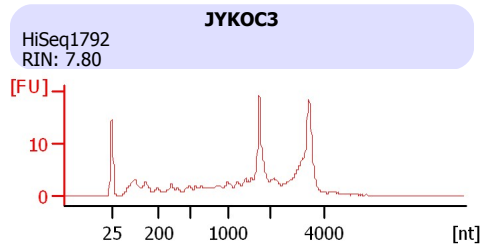
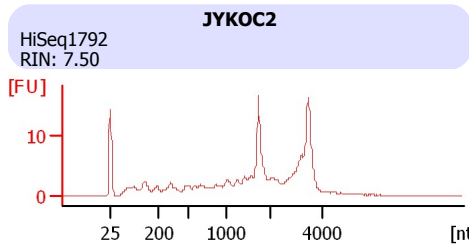
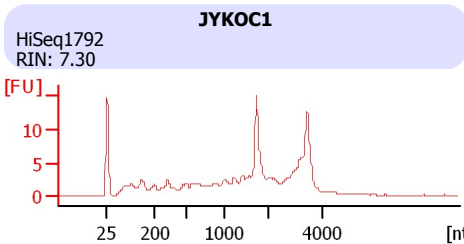
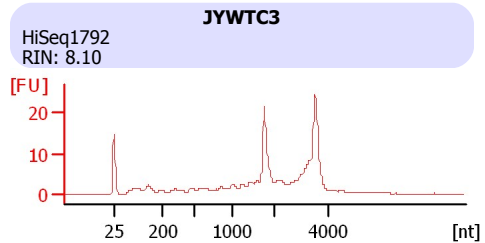
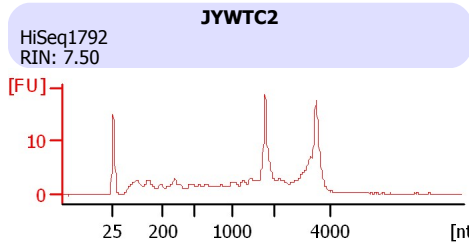
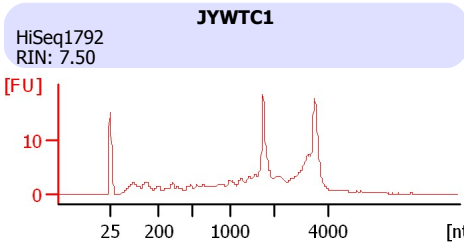
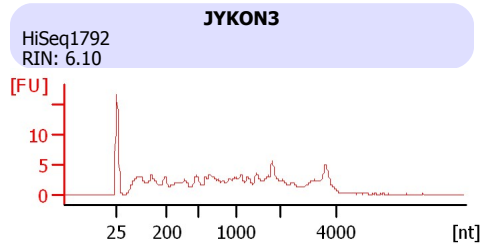
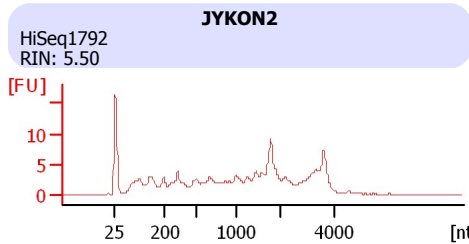
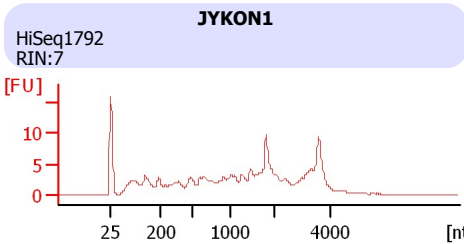
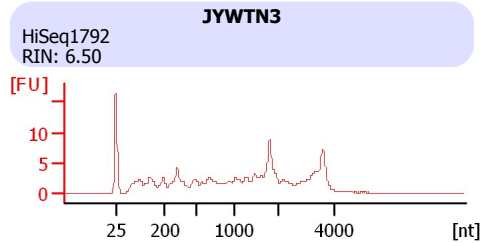
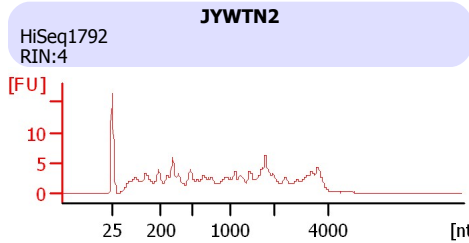
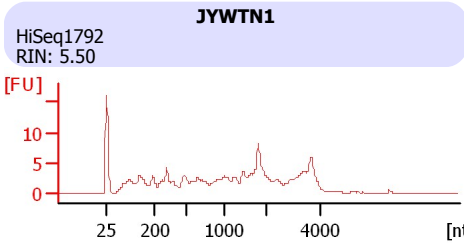
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
JYWTN1	HiSeq1792	✓	RIN: 5.50	
JYWTN2	HiSeq1792	✓	RIN:4	
JYWTN3	HiSeq1792	✓	RIN: 6.50	
JYKON1	HiSeq1792	✓	RIN:7	
JYKON2	HiSeq1792	✓	RIN: 5.50	
JYKON3	HiSeq1792	✓	RIN: 6.10	
JYWTC1	HiSeq1792	✓	RIN: 7.50	
JYWTC2	HiSeq1792	✓	RIN: 7.50	
JYWTC3	HiSeq1792	✓	RIN: 8.10	
JYKOC1	HiSeq1792	✓	RIN: 7.30	
JYKOC2	HiSeq1792	✓	RIN: 7.50	
JYKOC3	HiSeq1792	✓	RIN: 7.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 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

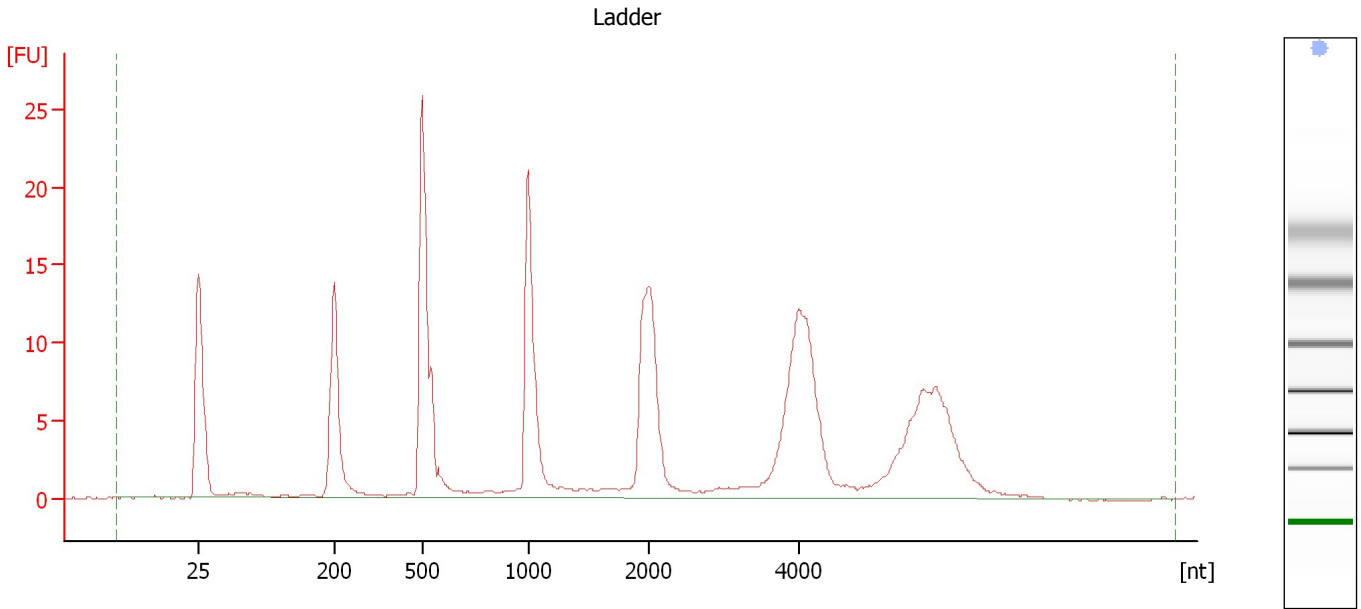
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary



Overall Results for Ladder

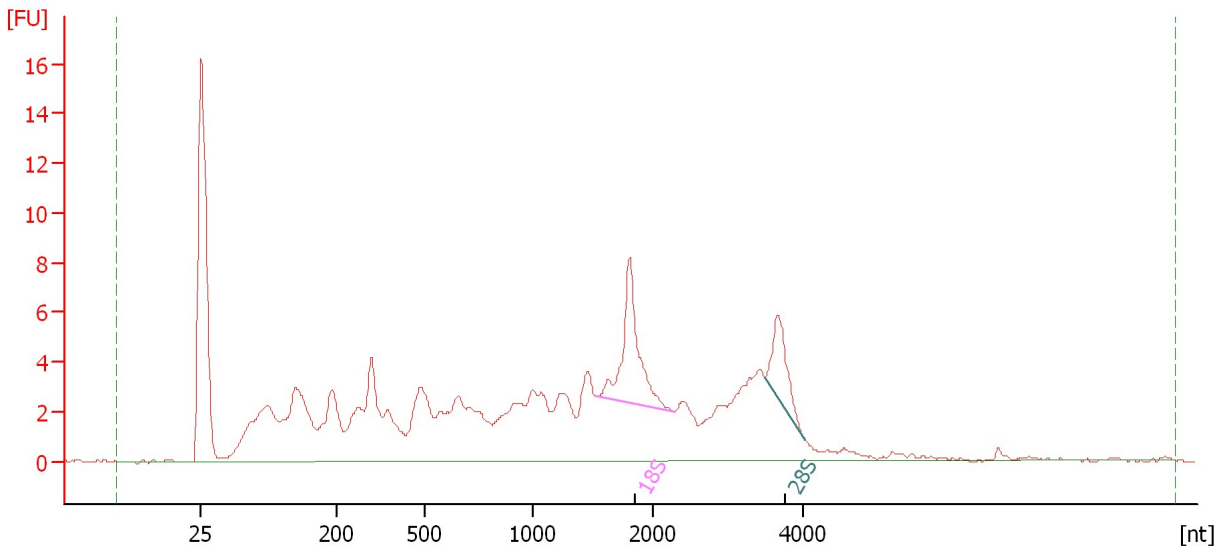
RNA Area:	202.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...

JYWTN1 [HiSeq1792]



Overall Results for sample 1 : JYWTN1

RNA Area:	172.3	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	127 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 5.50

Fragment table for sample 1 : JYWTN1

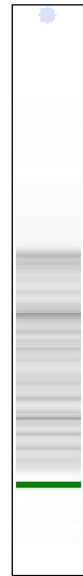
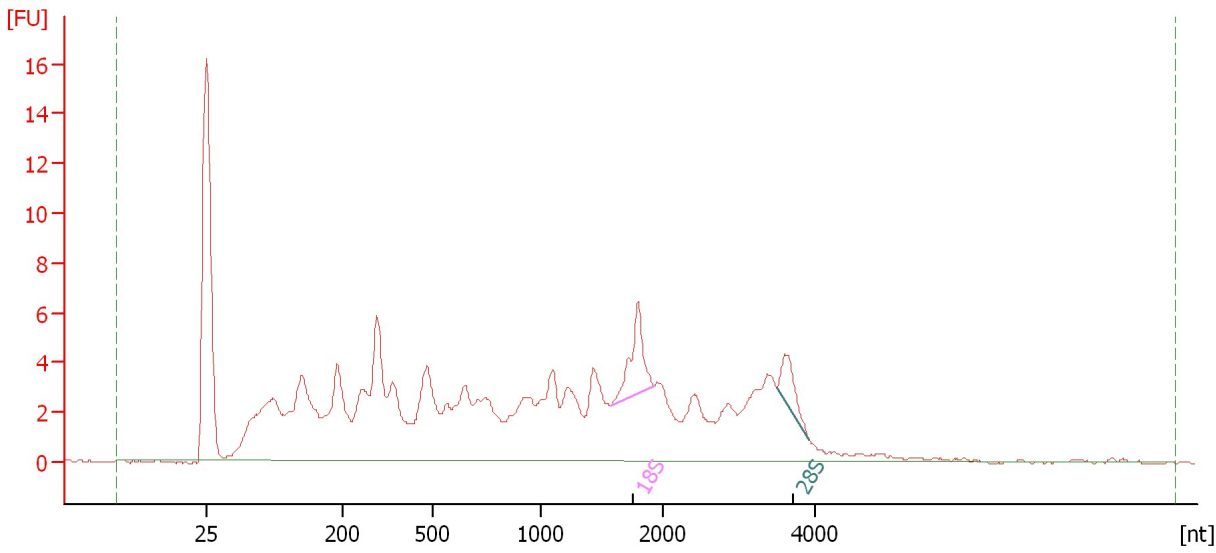
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,530	2,299	10.9	6.3
28S	3,499	4,022	5.1	3.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...

JYWTN2 [HiSeq1792]



Overall Results for sample 2 : JYWTN2

RNA Area: 185.1 RNA Integrity Number (RIN): 4 (B.02.08)
RNA Concentration: 137 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN:4

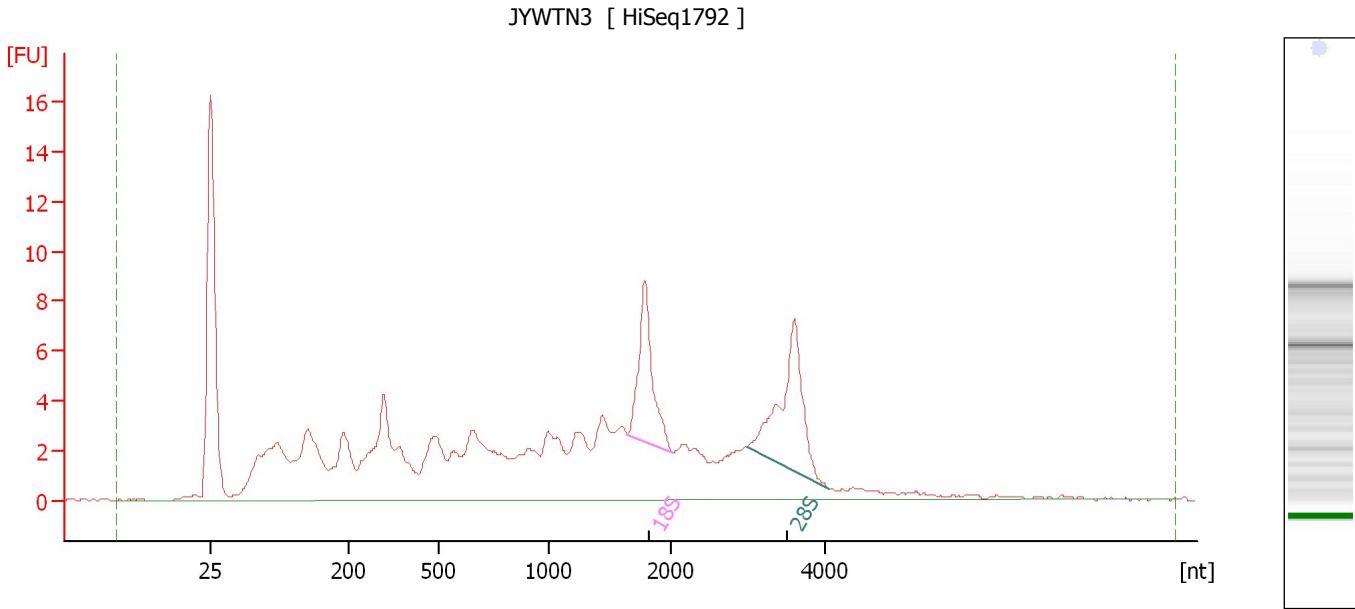
Fragment table for sample 2 : JYWTN2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,935	5.7	3.1
28S	3,505	3,924	2.7	1.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JYWTN3

RNA Area: 171.0 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 127 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 6.50

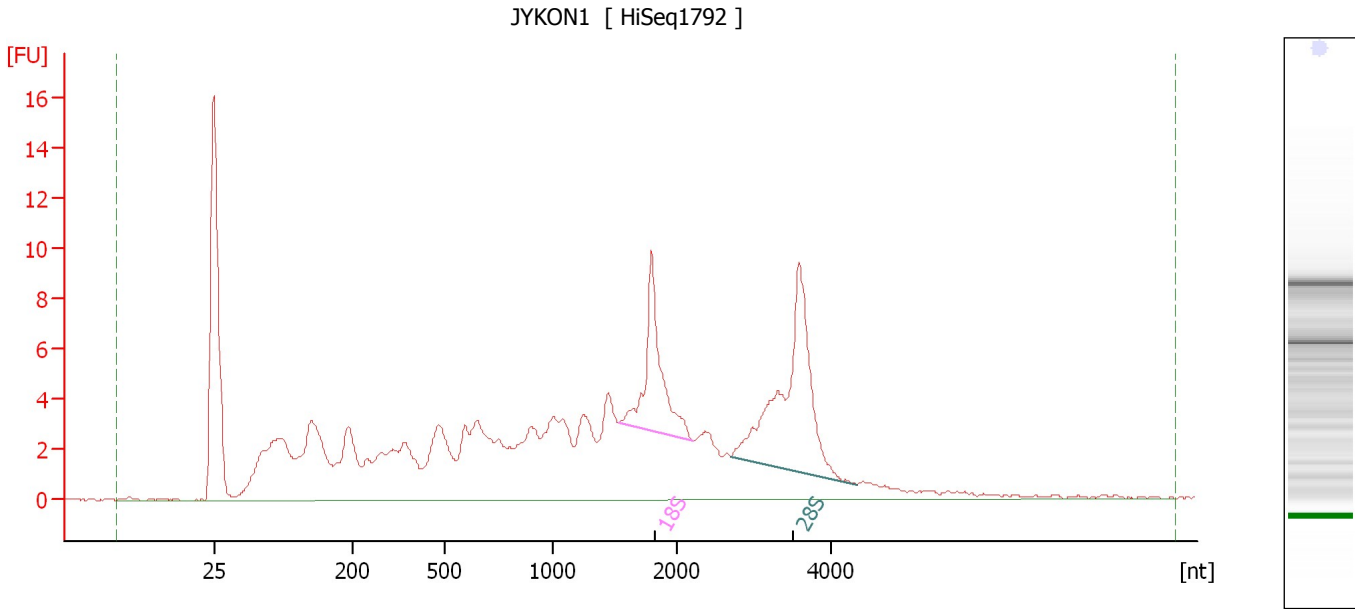
Fragment table for sample 3 : JYWTN3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	2,029	10.5	6.2
28S	2,985	4,052	14.2	8.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JYKON1

RNA Area: 201.0 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 149 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:7

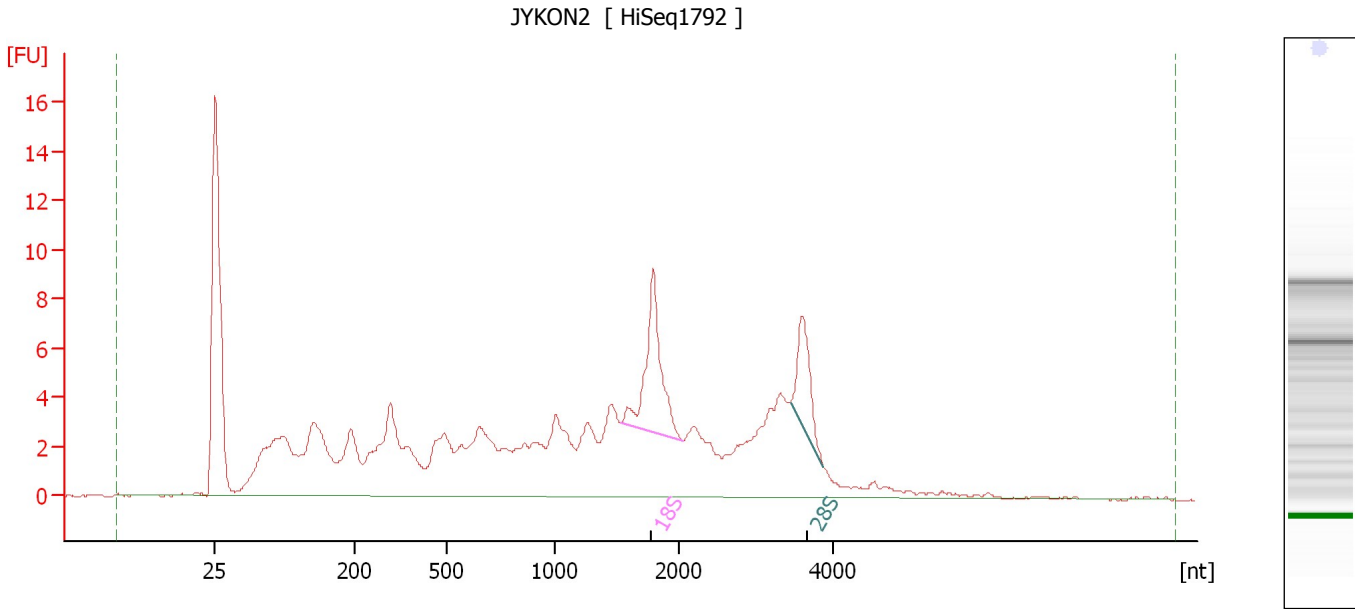
Fragment table for sample 4 : JYKON1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,526	2,212	12.7	6.3
28S	2,707	4,319	23.8	11.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JYKON2

RNA Area: 185.0 RNA Integrity Number (RIN): 5.5 (B.02.08)
RNA Concentration: 137 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN: 5.50

Fragment table for sample 5 : JYKON2

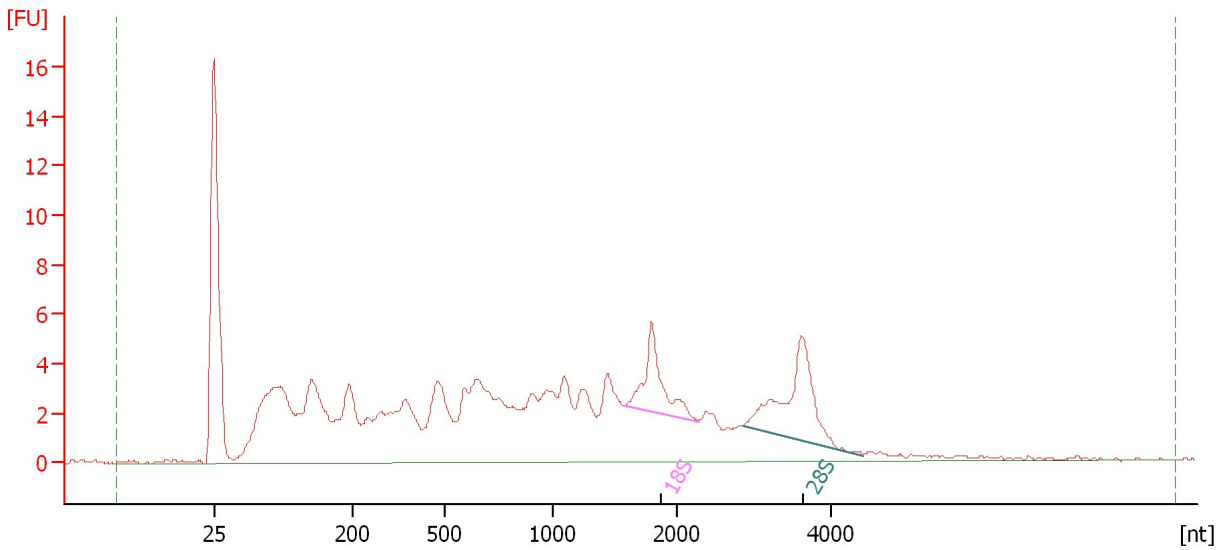
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,528	2,061	11.8	6.4
28S	3,436	3,862	5.9	3.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...

JYKON3 [HiSeq1792]



Overall Results for sample 6 : JYKON3

RNA Area:	180.3	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	133 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 6.10

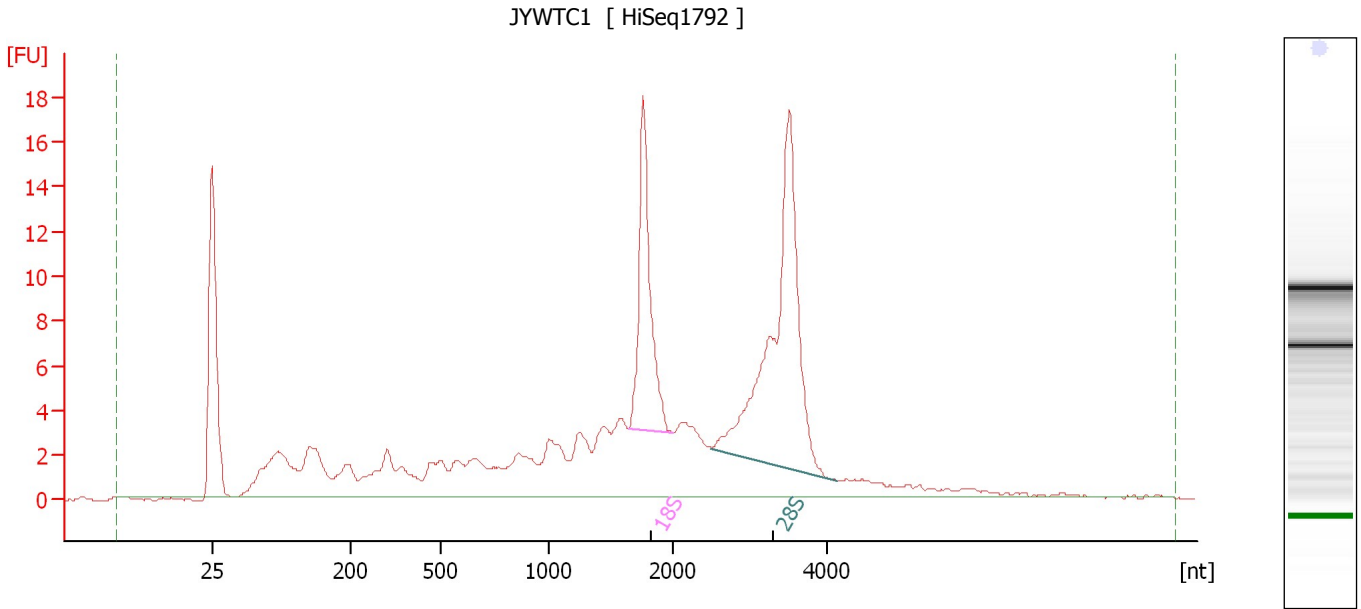
Fragment table for sample 6 : JYKON3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	2,281	7.4	4.1
28S	2,845	4,401	12.3	6.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JYWTC1

RNA Area: 195.9 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 145 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 7.50

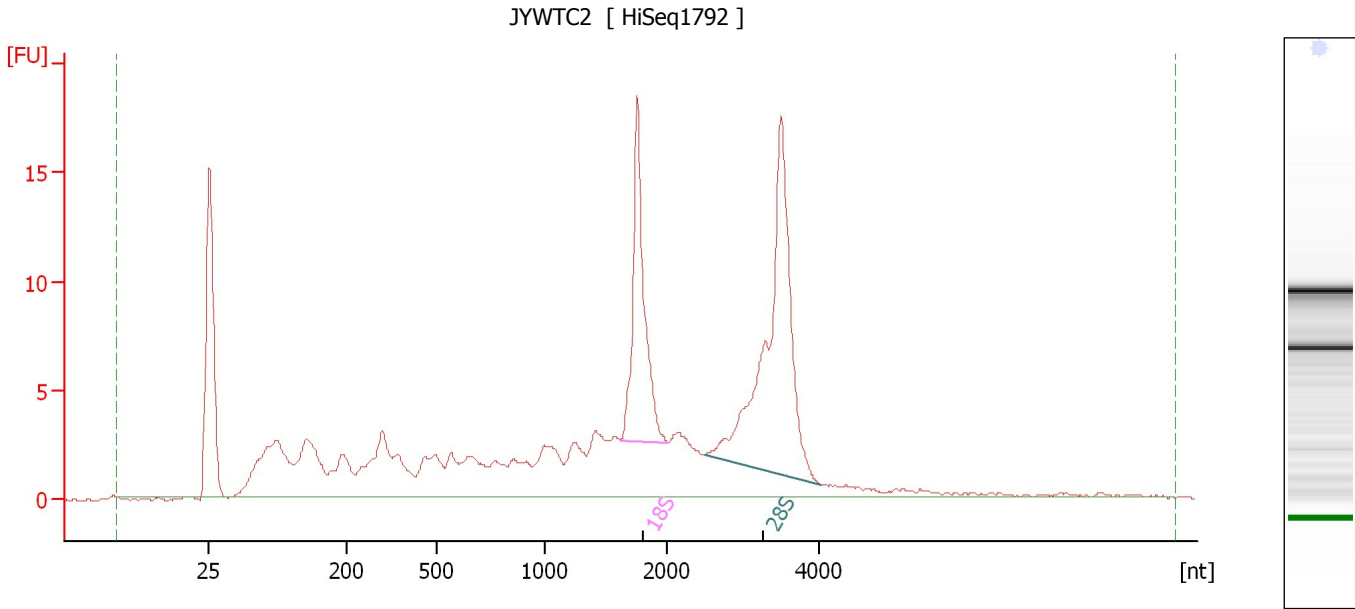
Fragment table for sample 7 : JYWTC1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	2,016	19.4	9.9
28S	2,500	4,132	42.7	21.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JYWTC2

RNA Area:	199.6	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	148 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 7.50

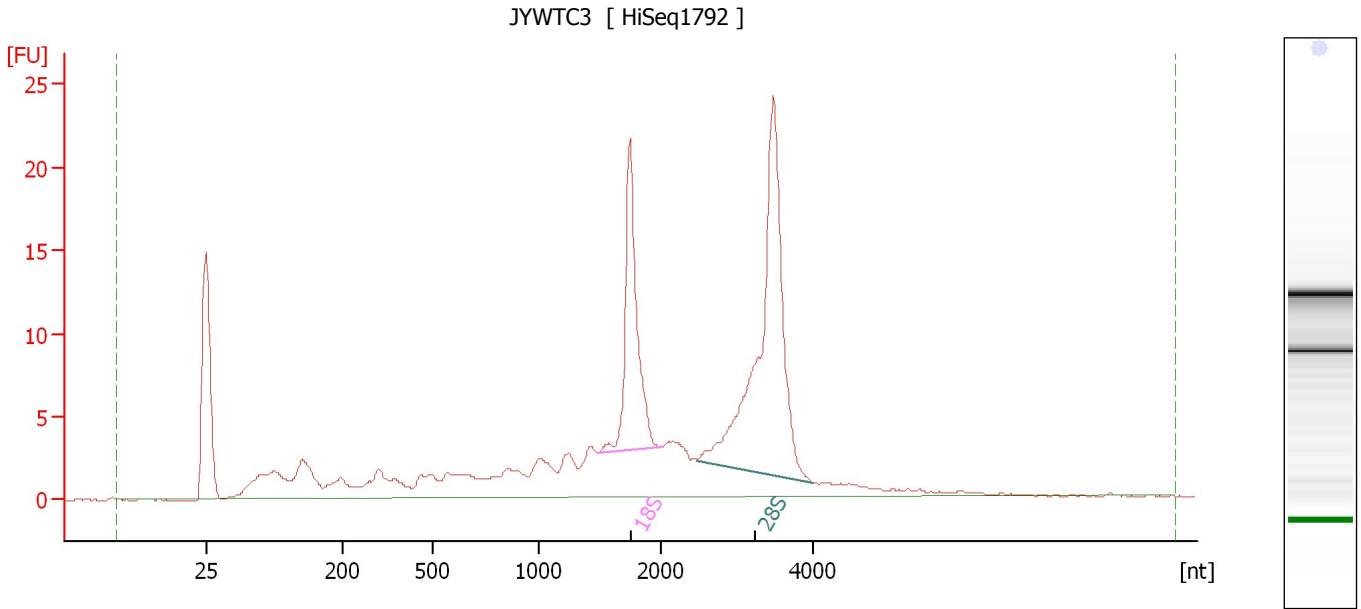
Fragment table for sample 8 : JYWTC2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	2,012	21.5	10.7
28S	2,513	4,002	41.8	21.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
 Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : JYWTC3

RNA Area:	203.6	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	151 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 8.10

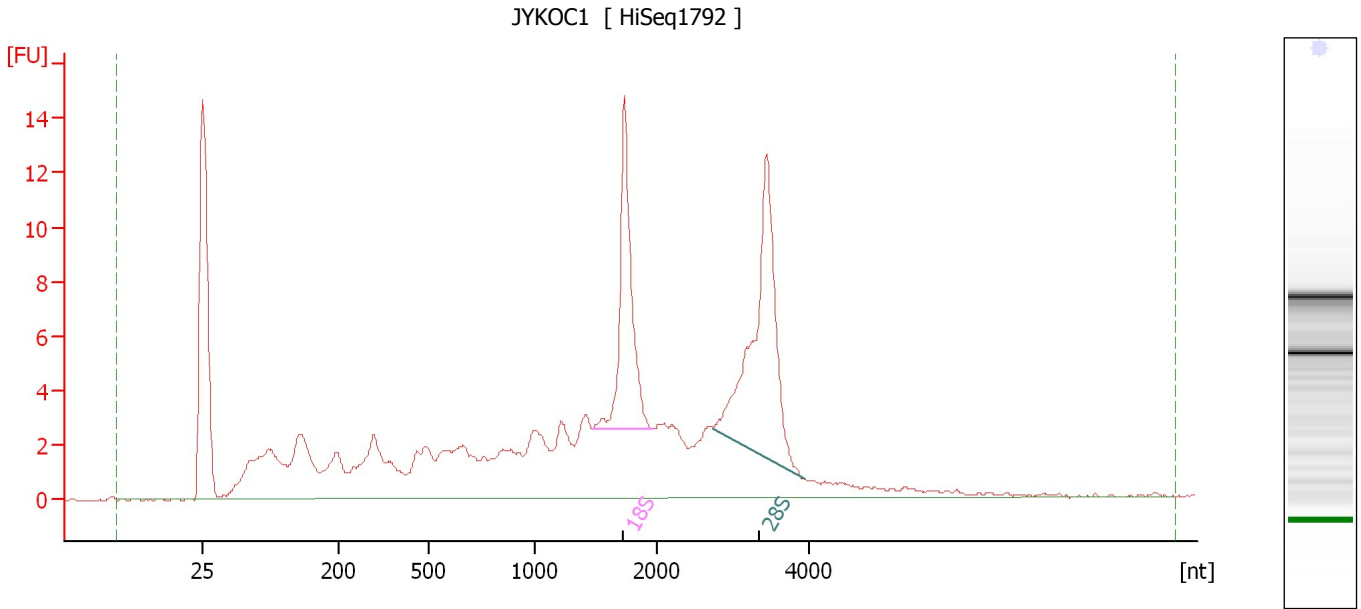
Fragment table for sample 9 : JYWTC3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,494	2,022	25.5	12.5
28S	2,484	3,997	55.6	27.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : JYKOC1

RNA Area: 175.9 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 130 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 7.30

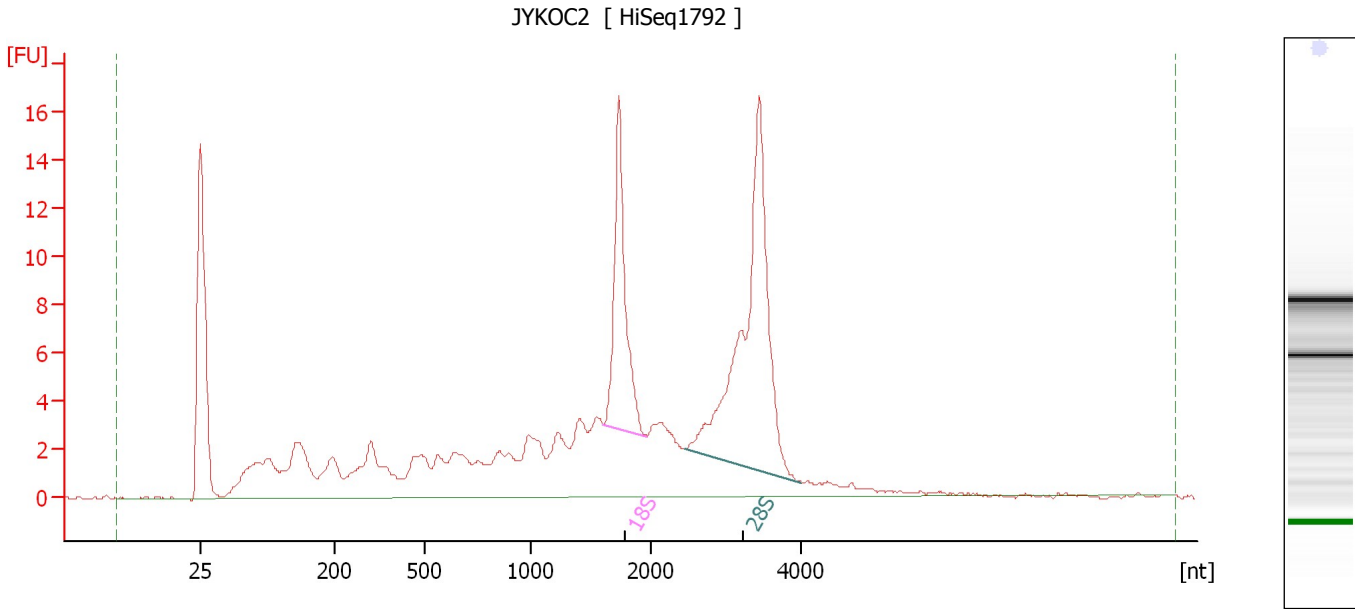
Fragment table for sample 10 : JYKOC1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,472	1,968	16.7	9.5
28S	2,751	3,960	26.2	14.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : JYKOC2

RNA Area: 182.1 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 135 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 7.50

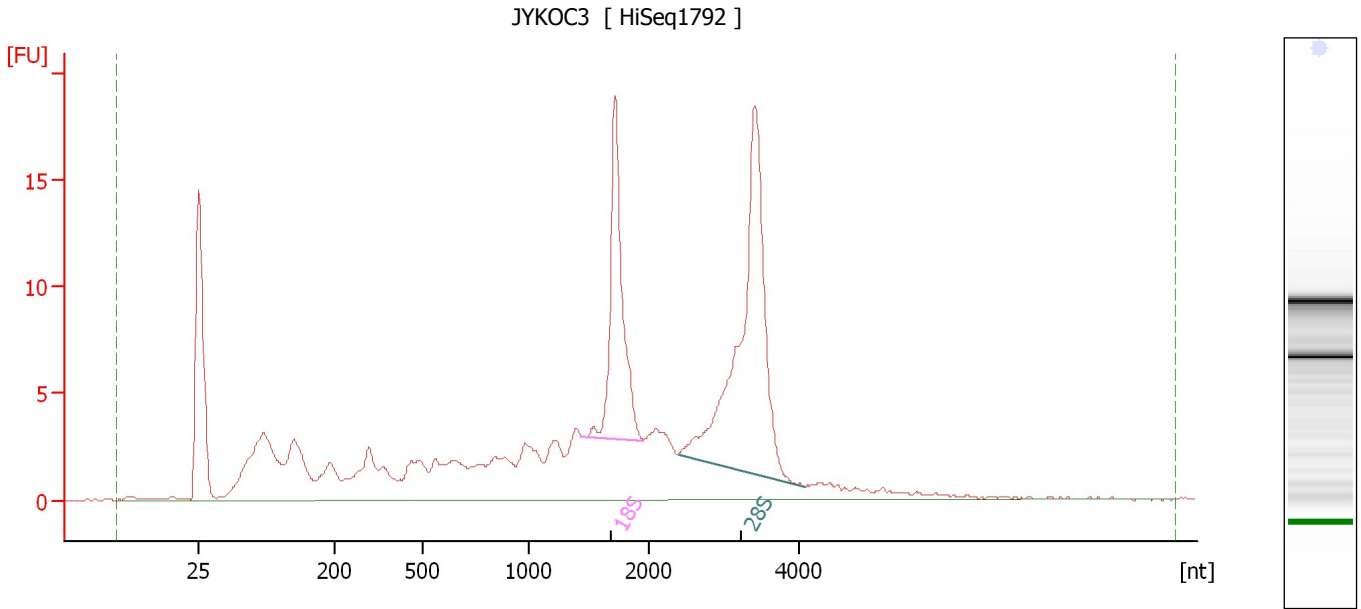
Fragment table for sample 11 : JYKOC2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	1,974	18.1	9.9
28S	2,468	4,011	40.7	22.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : JYKOC3

RNA Area: 215.8 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 160 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 7.80

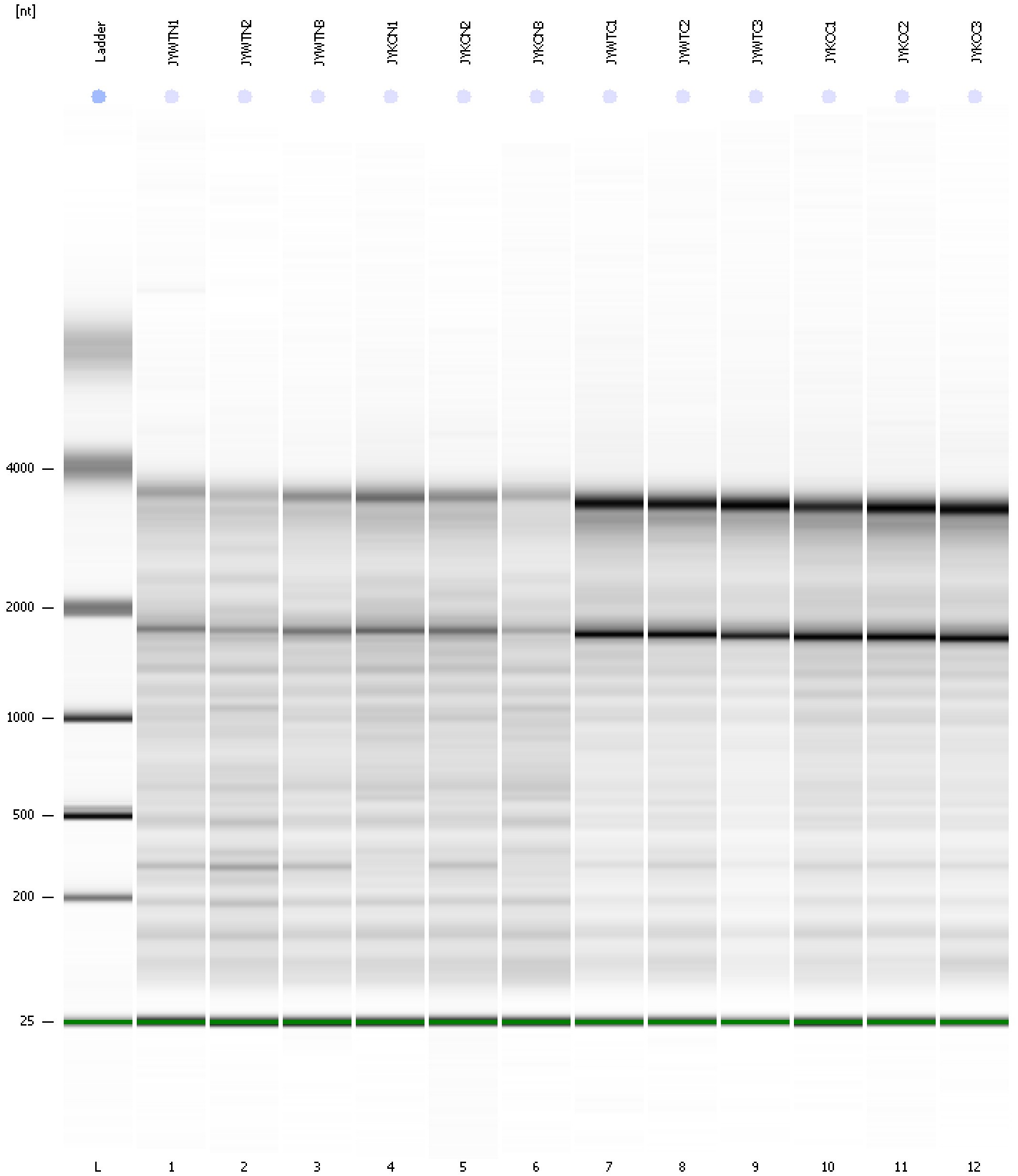
Fragment table for sample 12 : JYKOC3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,446	1,964	22.5	10.4
28S	2,397	4,070	46.0	21.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
Modified: 4/23/2019 9:41:07 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_002.xad

Created: 4/22/2019 2:27:50 PM
 Modified: 4/23/2019 9:41:07 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		4/22/2019 2:51:40 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\2019-04-22\2019-04-22_002.xad)		Instrument	Run		4/22/2019 2:27:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/22/2019 2:27:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/22/2019 2:27:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/22/2019 2:27:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/22/2019 2:27:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/22/2019 2:27:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/22/2019 2:27:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1