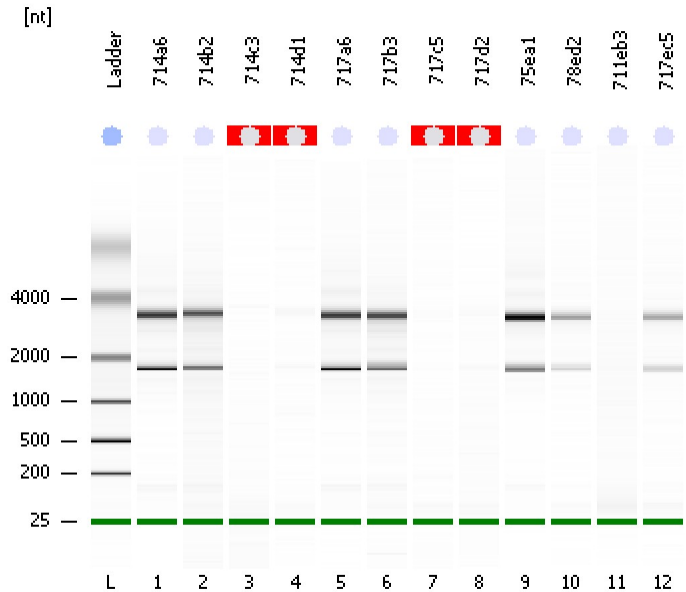


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electrophoresis File Run Summary



Instrument Information:

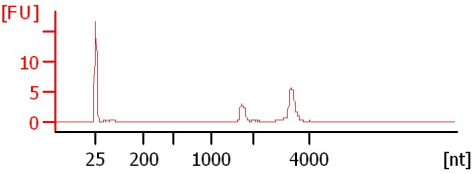
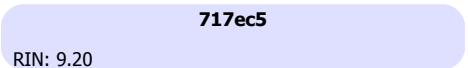
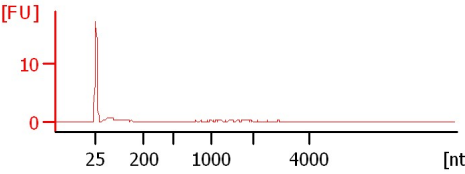
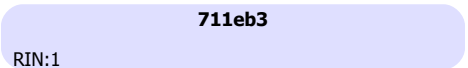
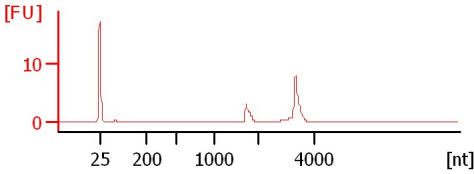
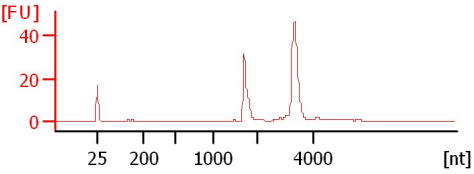
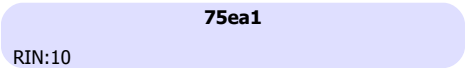
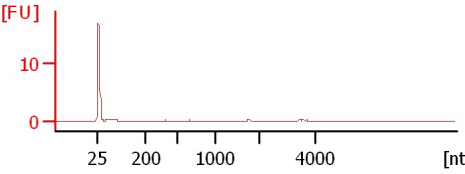
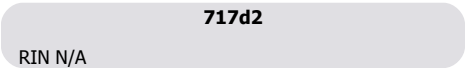
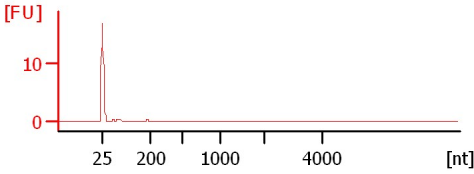
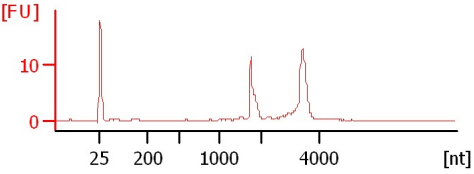
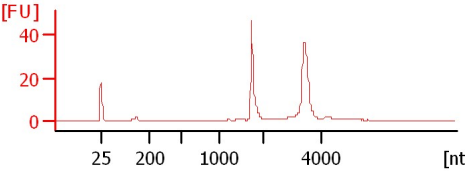
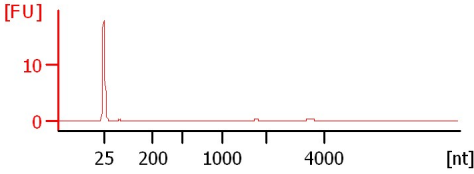
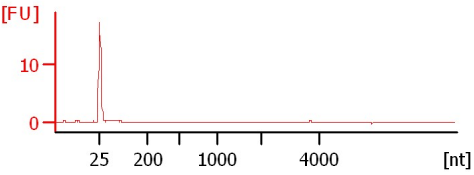
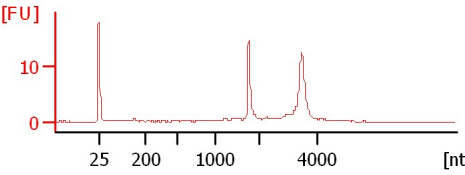
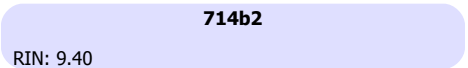
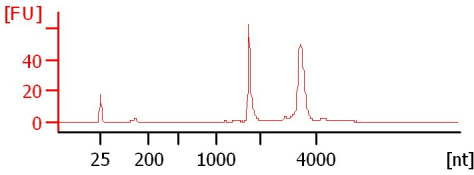
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
 Modified: 7/25/2019 11:50:20 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
714a6		✓	RIN: 9.80	
714b2		✓	RIN: 9.40	
714c3		✓	RIN N/A	
714d1		✓	RIN N/A	
717a6		✓	RIN: 9.90	
717b3		✓	RIN:10	
717c5		✓	RIN N/A	
717d2		✓	RIN N/A	
75ea1		✓	RIN:10	
78ed2		✓	RIN: 9.50	
711eb3		✓	RIN:1	
717ec5		✓	RIN: 9.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 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

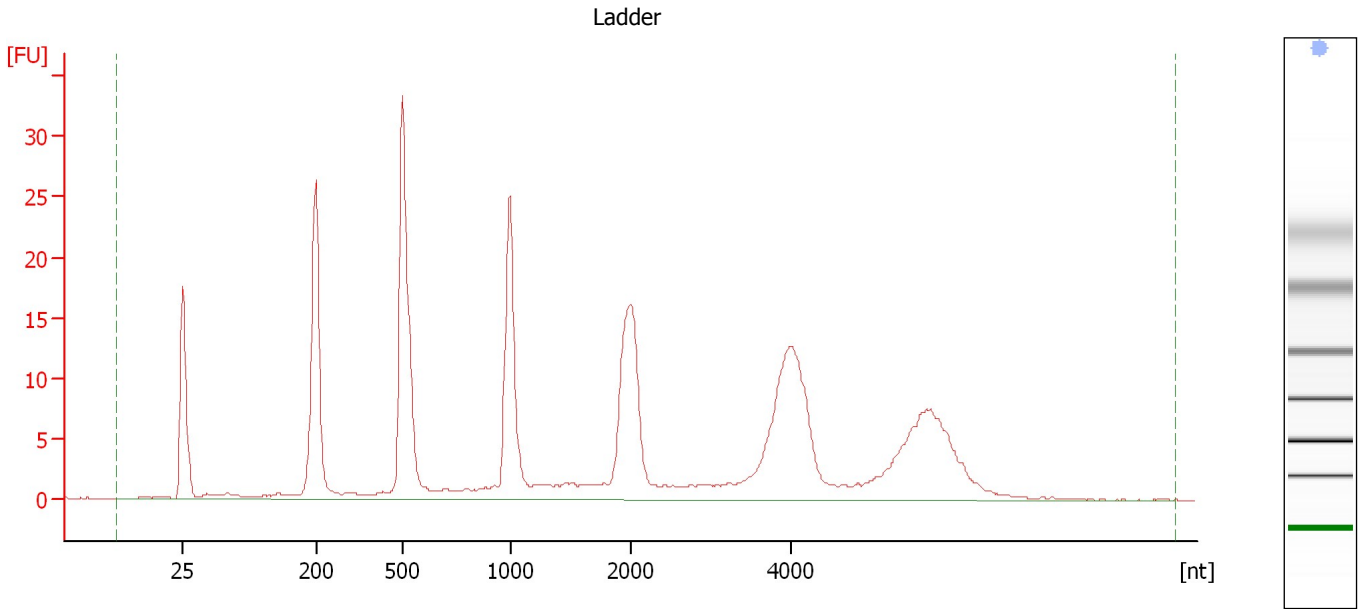
Ladder

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\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary



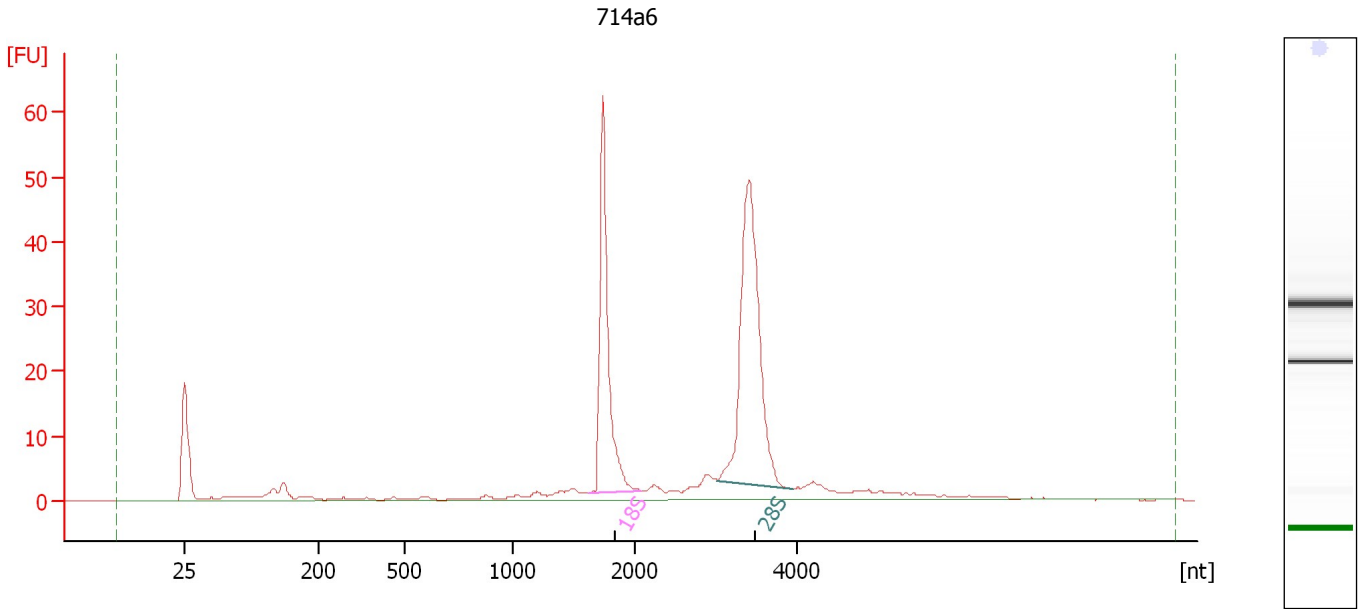
Overall Results for Ladder

RNA Area:	287.8	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 714a6

RNA Area: 247.5 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 129 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.80

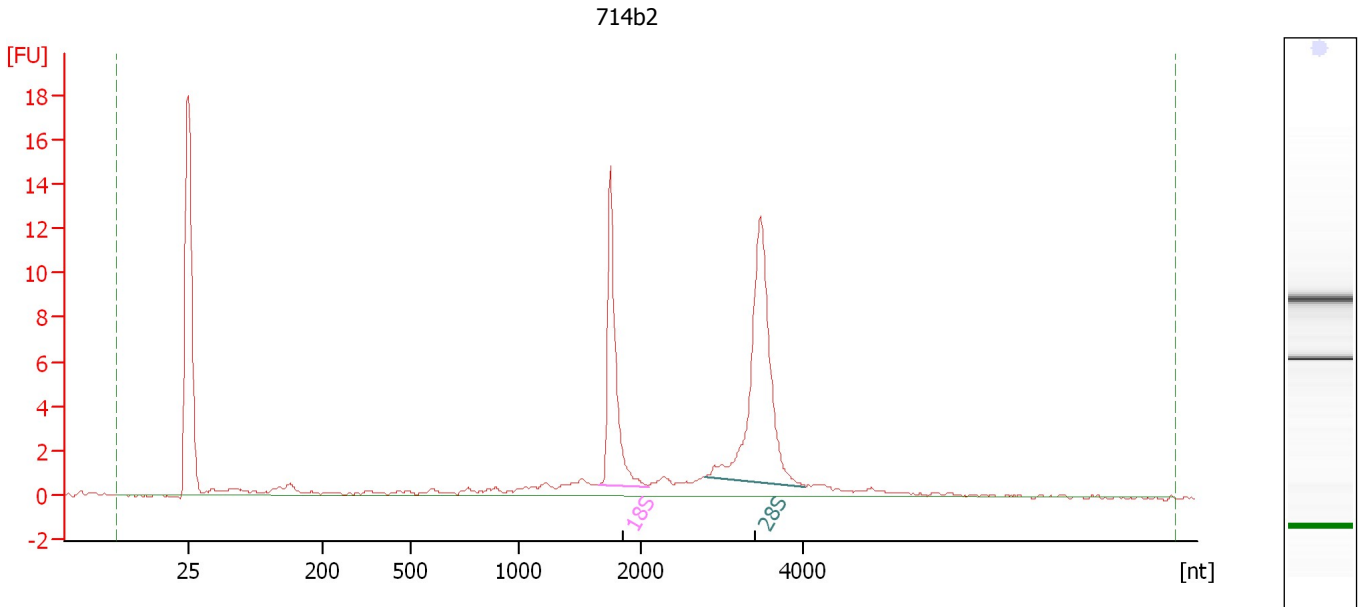
Fragment table for sample 1 : 714a6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	2,081	63.7	25.7
28S	3,024	3,966	94.7	38.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 714b2

RNA Area:	71.7	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	37 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.40

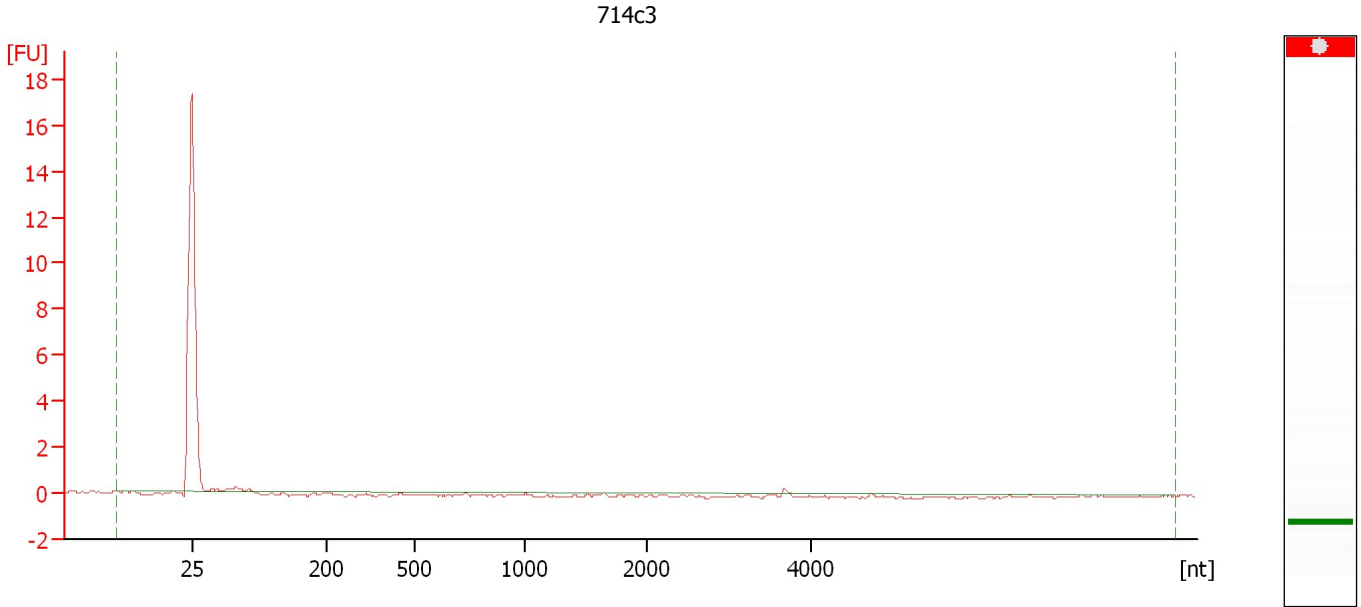
Fragment table for sample 2 : 714b2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	2,083	14.2	19.7
28S	2,782	4,022	24.7	34.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



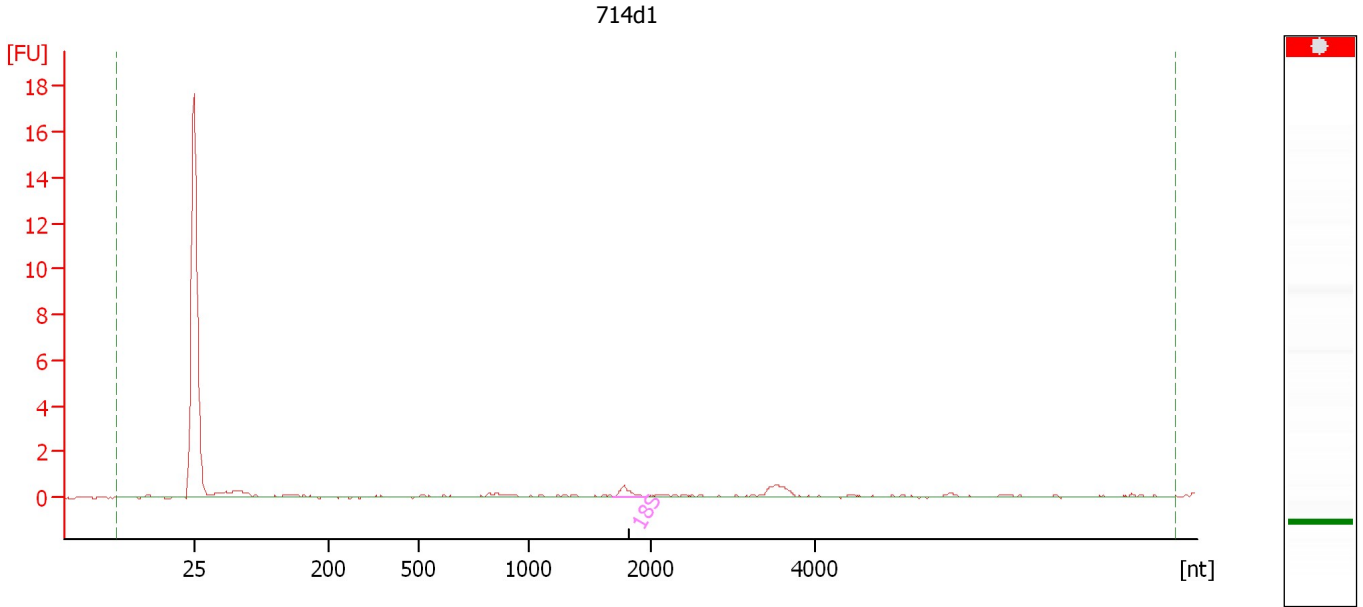
Overall Results for sample 3 : 714c3

RNA Area:	1.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 714d1

RNA Area:	4.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

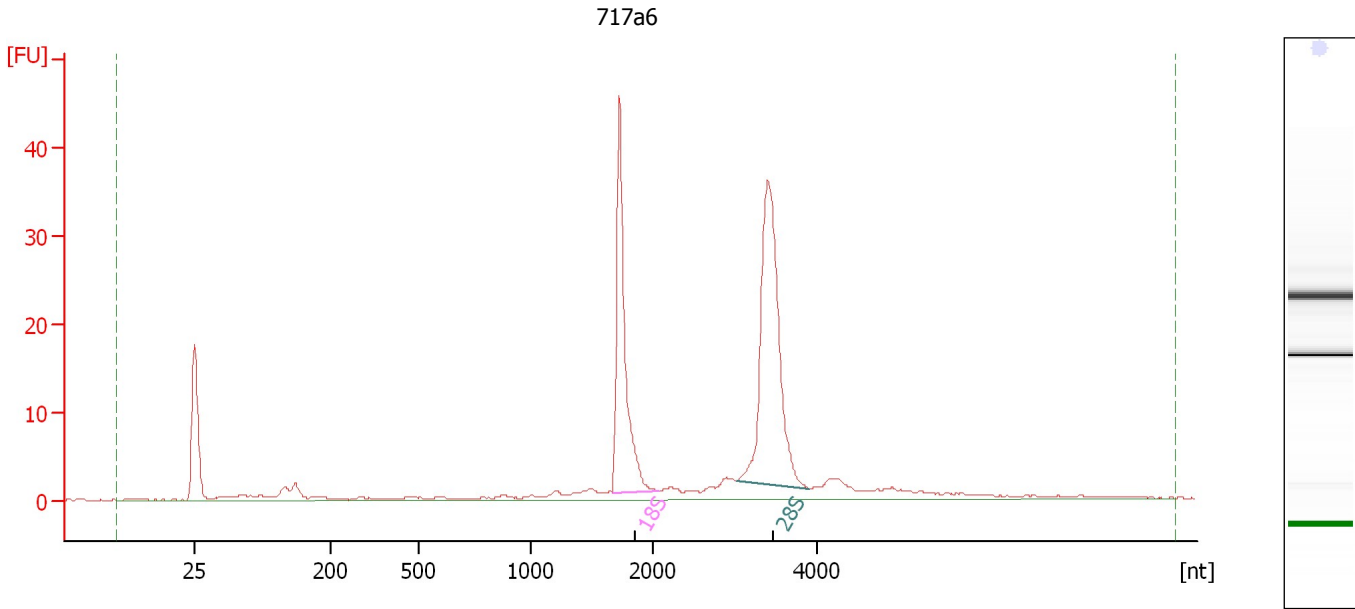
Fragment table for sample 4 : 714d1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	1,954	0.7	14.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 717a6

RNA Area: 175.3 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 91 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.90

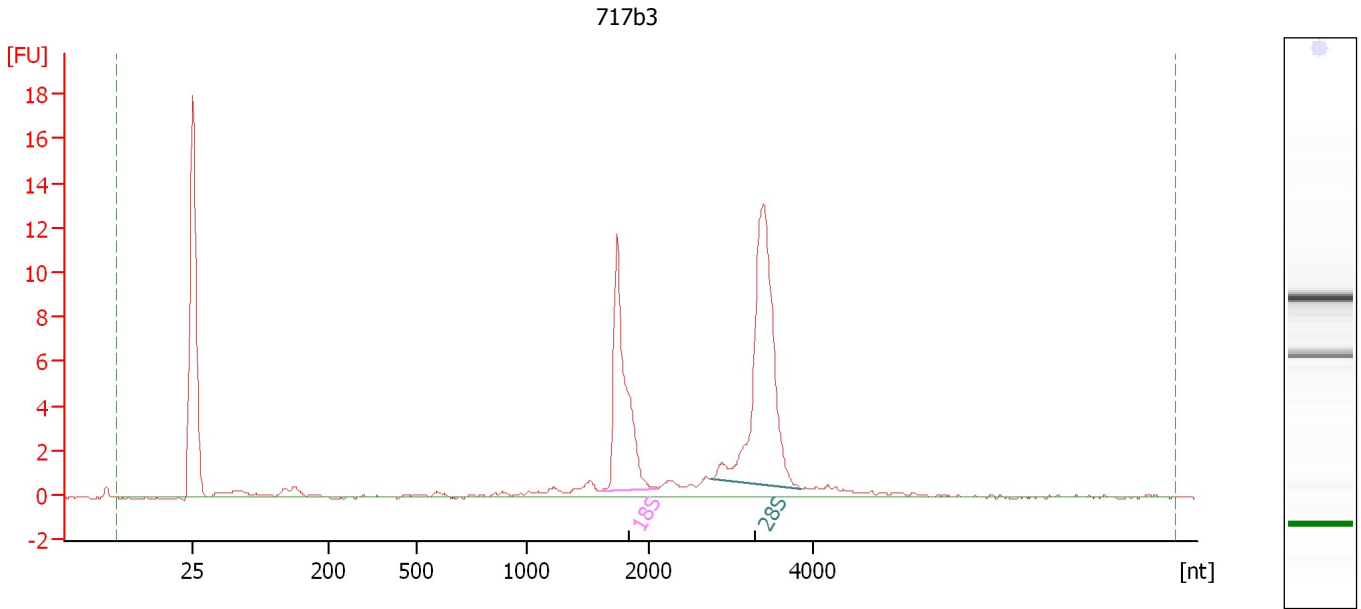
Fragment table for sample 5 : 717a6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	2,062	46.3	26.4
28S	3,012	3,897	67.5	38.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 717b3

RNA Area:	65.3	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	34 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:10

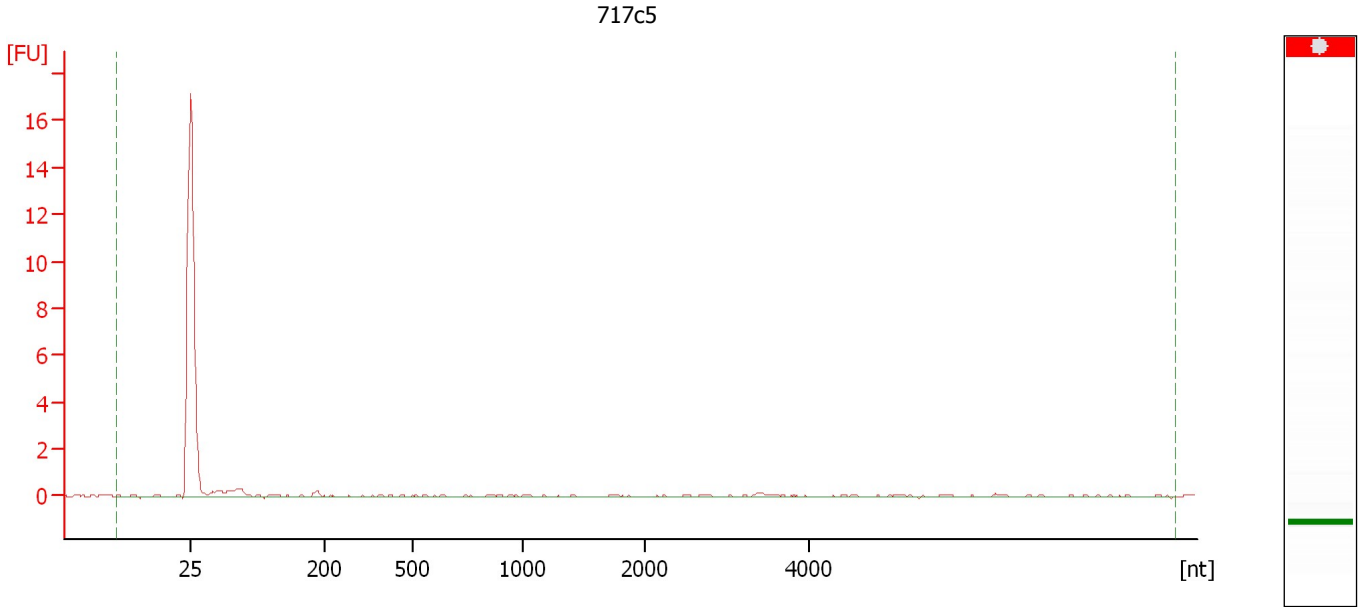
Fragment table for sample 6 : 717b3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	2,100	16.1	24.7
28S	2,753	3,851	27.4	42.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



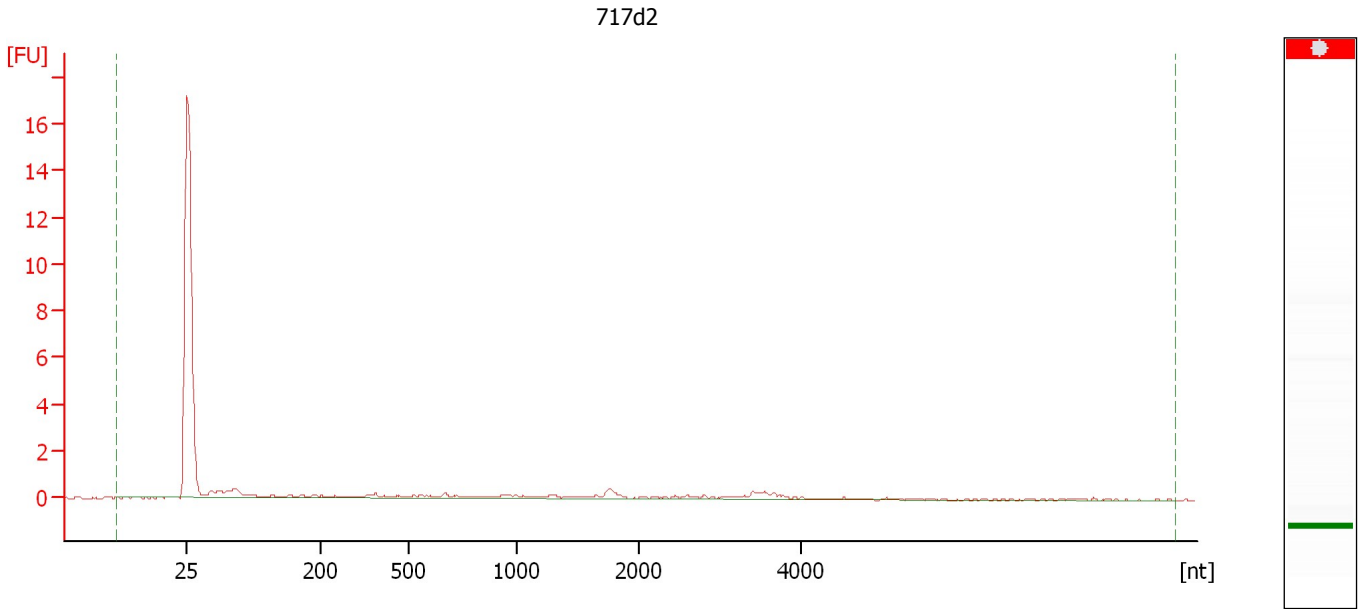
Overall Results for sample 7 : 717c5

RNA Area:	5.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



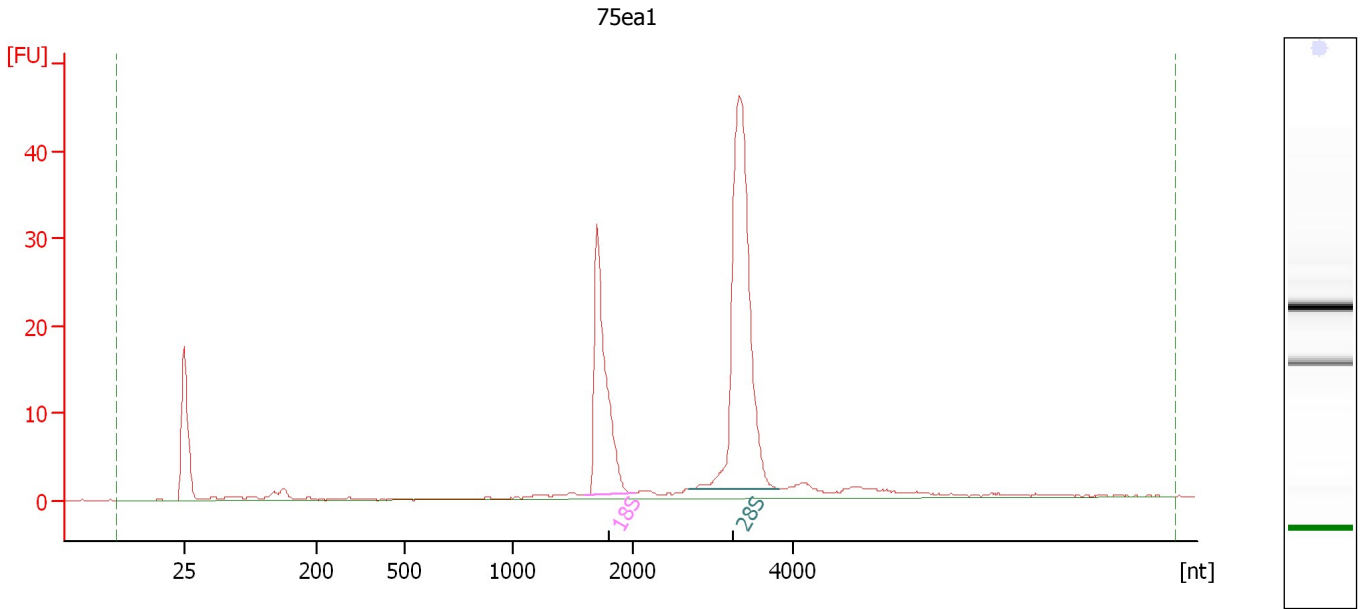
Overall Results for sample 8 : 717d2

RNA Area:	9.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
 Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 75ea1

RNA Area:	172.0	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	90 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN:10

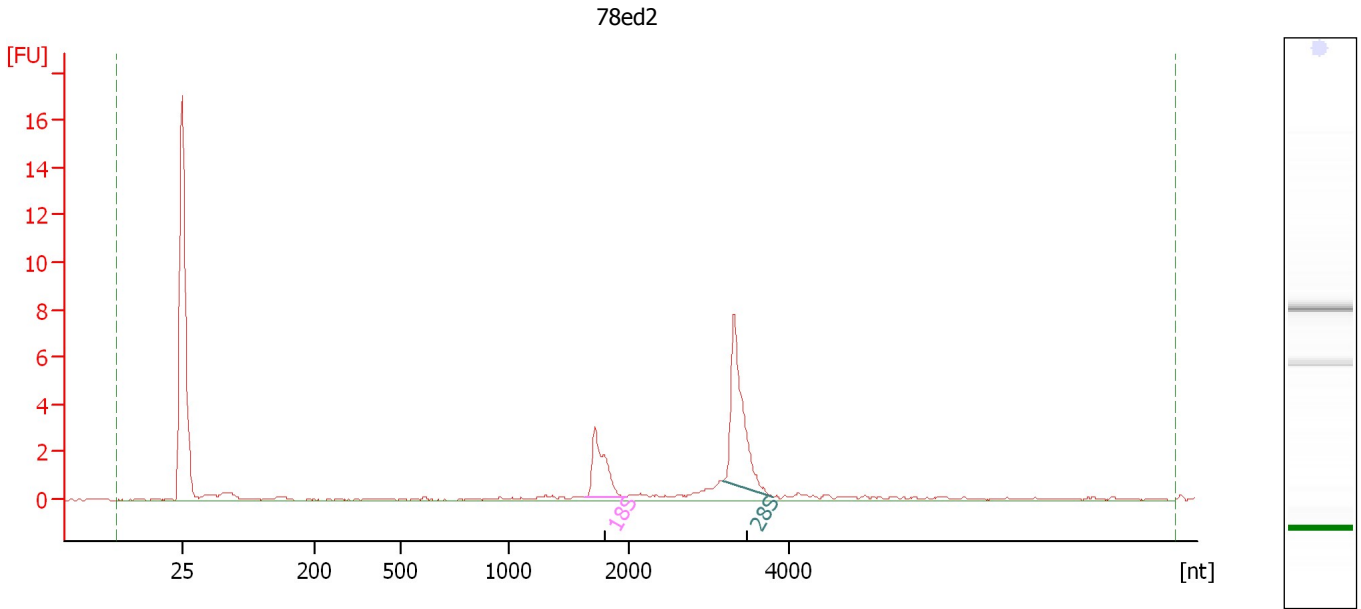
Fragment table for sample 9 : 75ea1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	2,027	43.6	25.3
28S	2,706	3,810	86.5	50.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 78ed2

RNA Area: 27.1 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 14 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 9.50

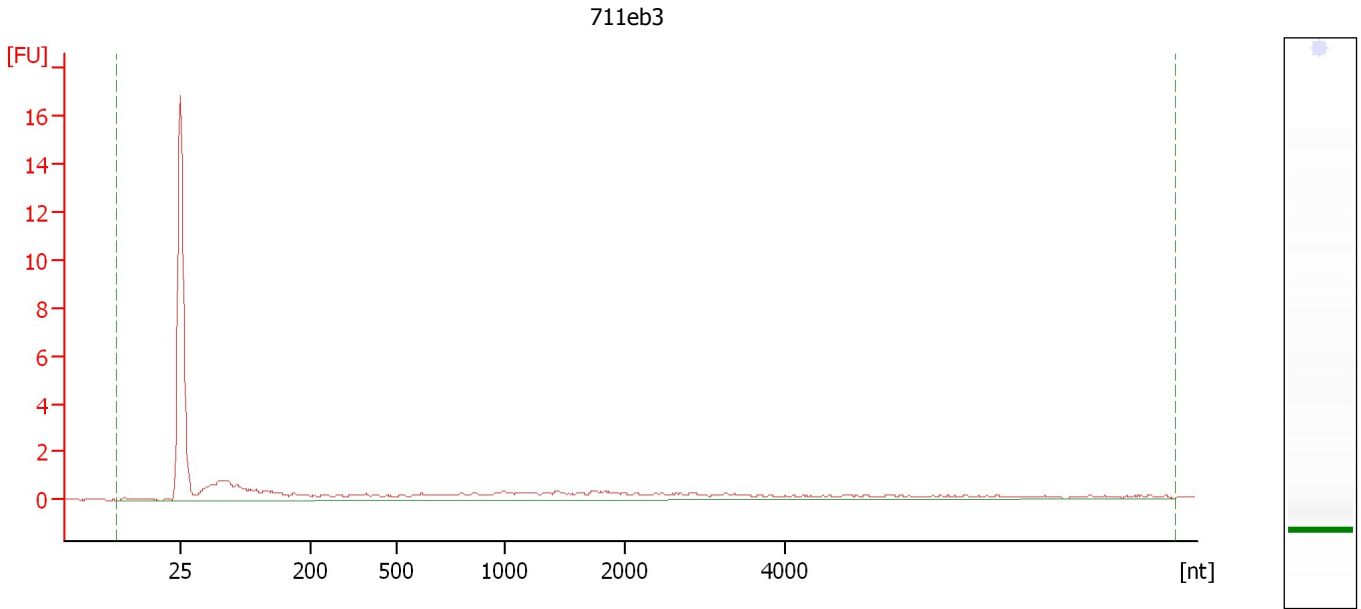
Fragment table for sample 10 : 78ed2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,981	4.6	17.0
28S	3,188	3,803	9.4	34.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



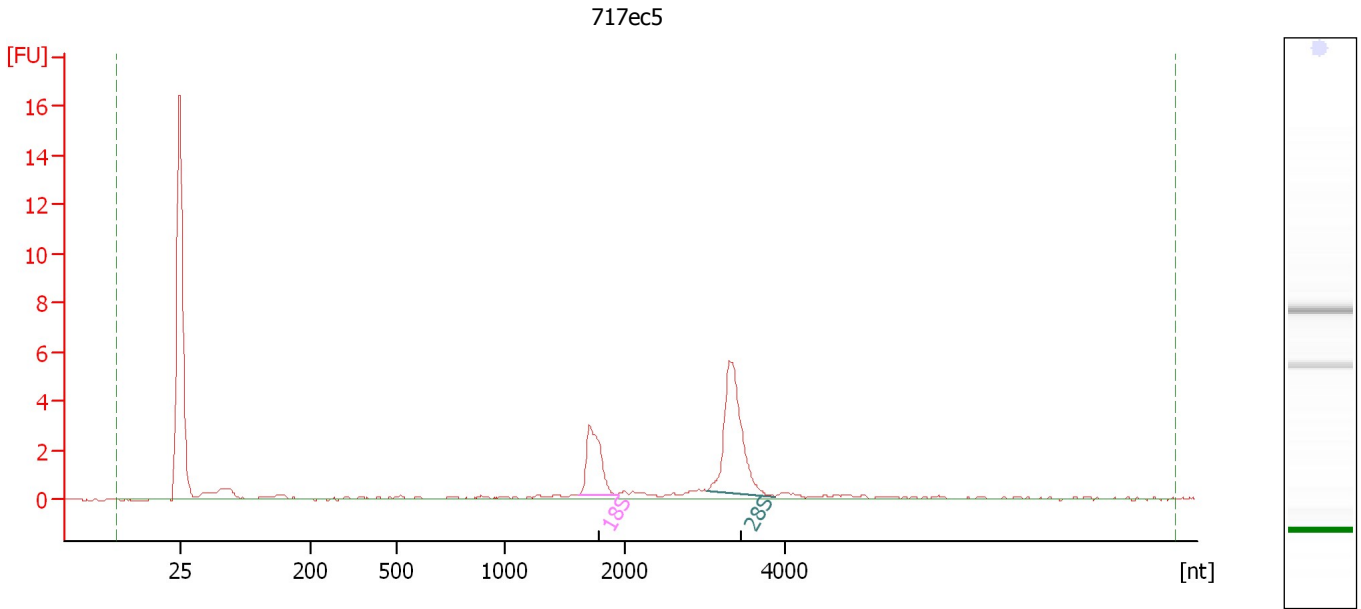
Overall Results for sample 11 : 711eb3

RNA Area:	24.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	13 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 717ec5

RNA Area:	23.3	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.20

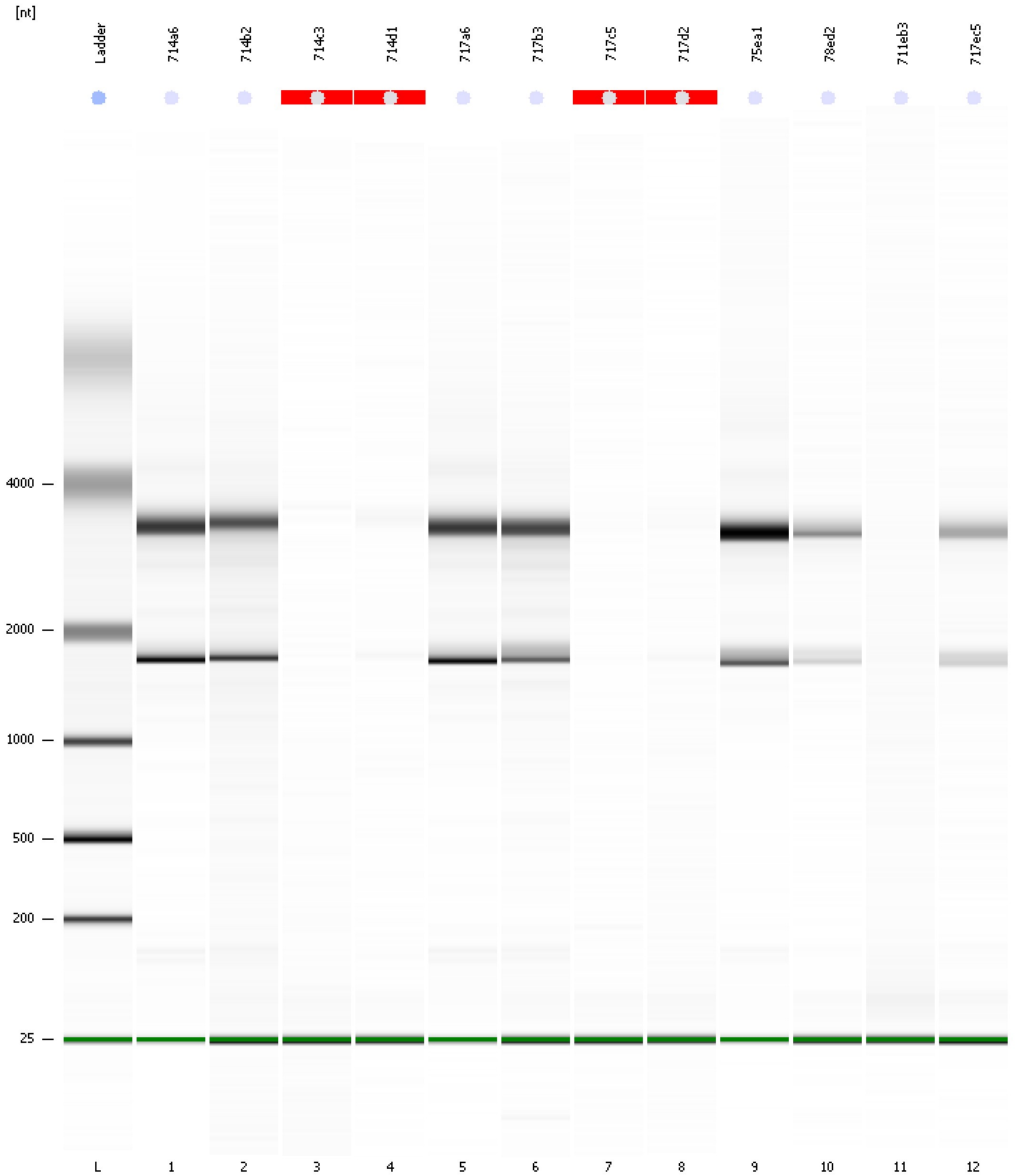
Fragment table for sample 12 : 717ec5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	1,944	5.1	22.0
28S	3,030	3,876	10.3	44.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
Modified: 7/25/2019 11:50:20 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad

Created: 7/25/2019 11:27:16 AM
 Modified: 7/25/2019 11:50:20 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		7/25/2019 11:50:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_003.xad)		Instrument	Run		7/25/2019 11:27:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/25/2019 11:27:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/25/2019 11:27:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/25/2019 11:27:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/25/2019 11:27:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/25/2019 11:27:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/25/2019 11:27:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1