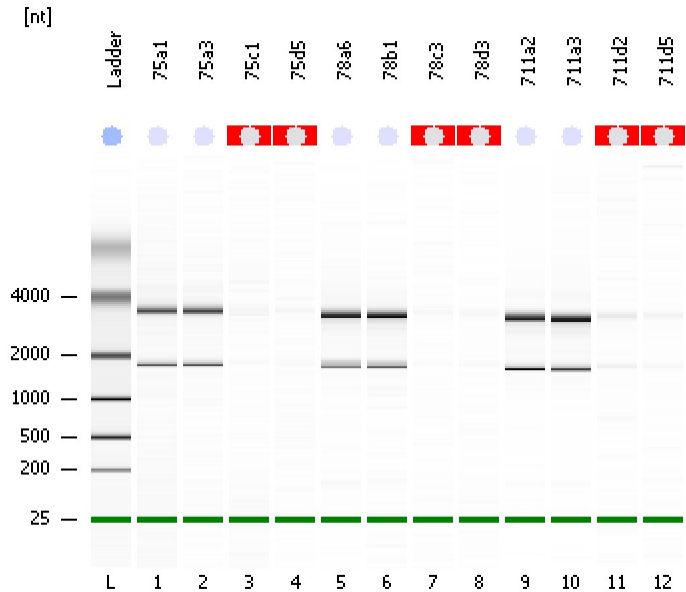


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electrophoresis File Run Summary



Instrument Information:

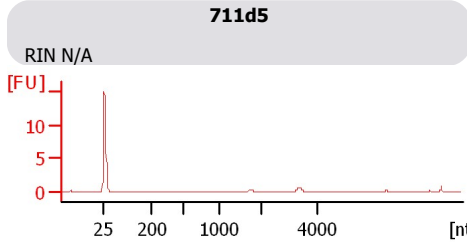
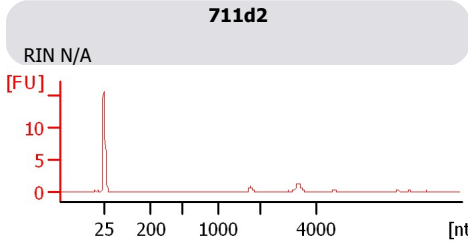
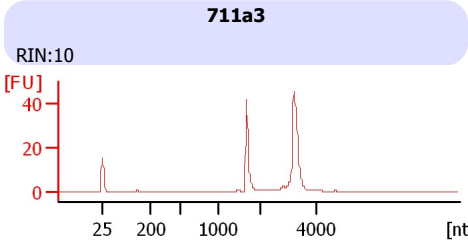
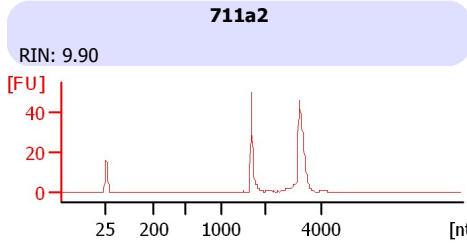
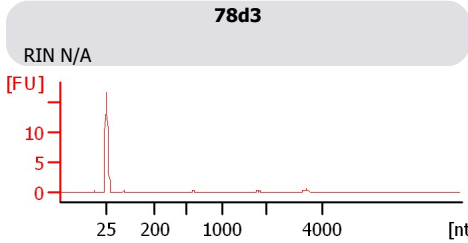
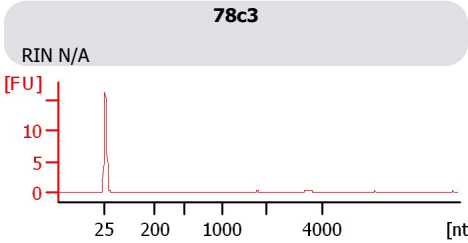
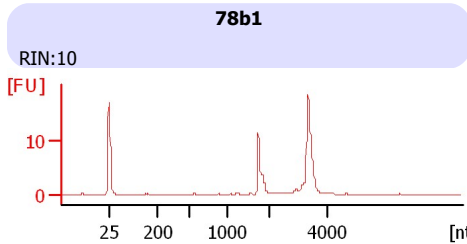
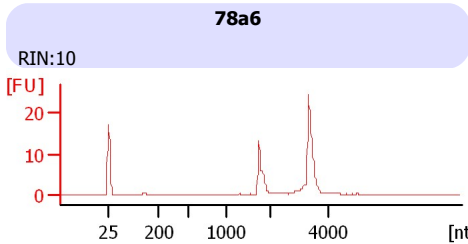
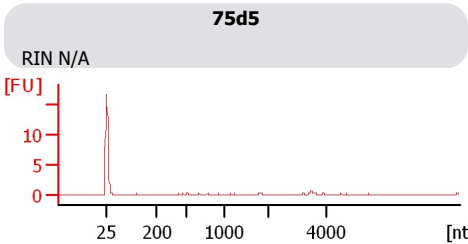
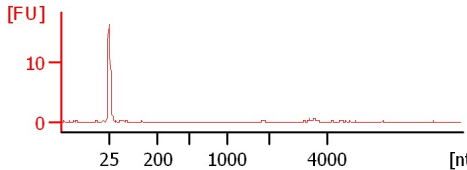
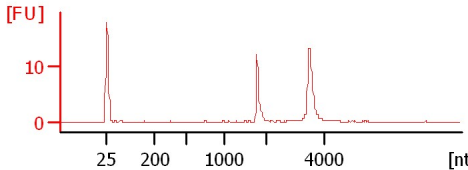
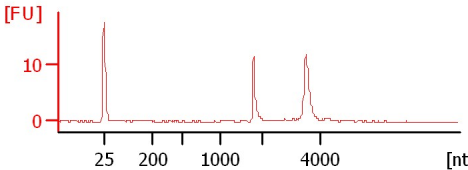
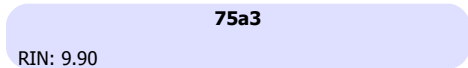
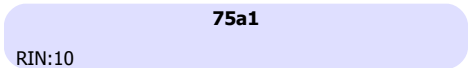
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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_002.xad

Created: 7/25/2019 10:41:44 AM
 Modified: 7/25/2019 11:05:32 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
75a1		✓	RIN:10	
75a3		✓	RIN: 9.90	
75c1		✓	RIN N/A	
75d5		✓	RIN N/A	
78a6		✓	RIN:10	
78b1		✓	RIN:10	
78c3		✓	RIN N/A	
78d3		✓	RIN N/A	
711a2		✓	RIN: 9.90	
711a3		✓	RIN:10	
711d2		✓	RIN N/A	
711d5		✓	RIN N/A	
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_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 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/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 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

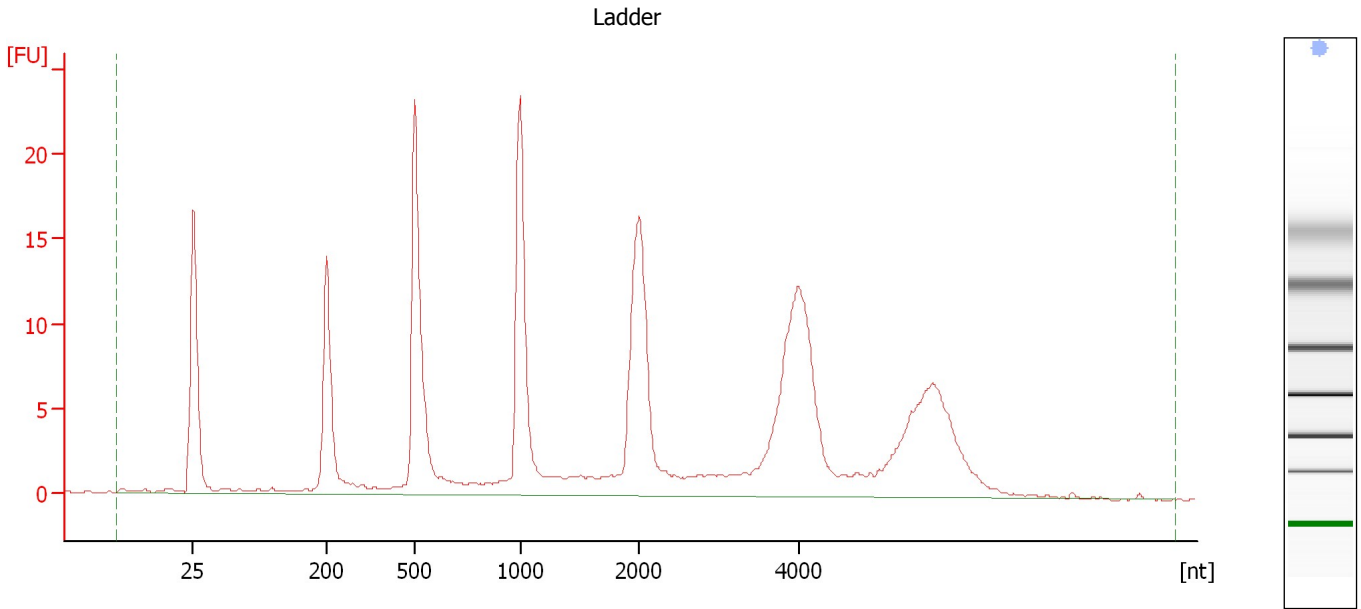
Ladder

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_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary



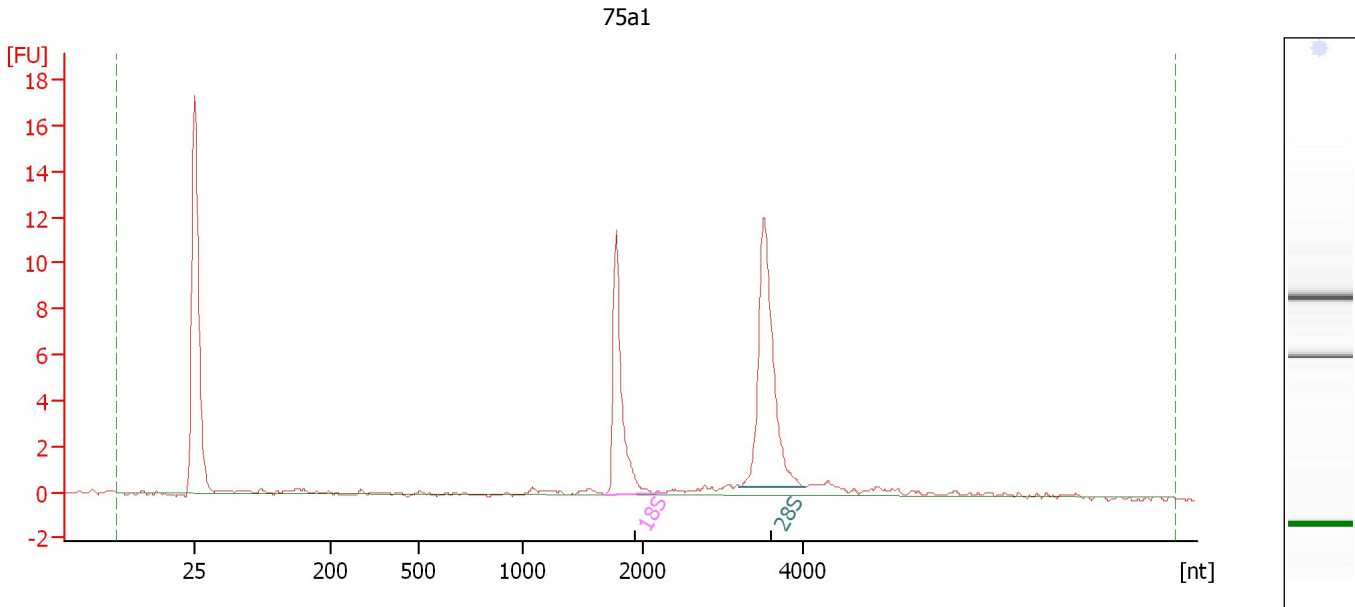
Overall Results for Ladder

RNA Area:	240.3	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_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 75a1

RNA Area:	41.3	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	26 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN:10

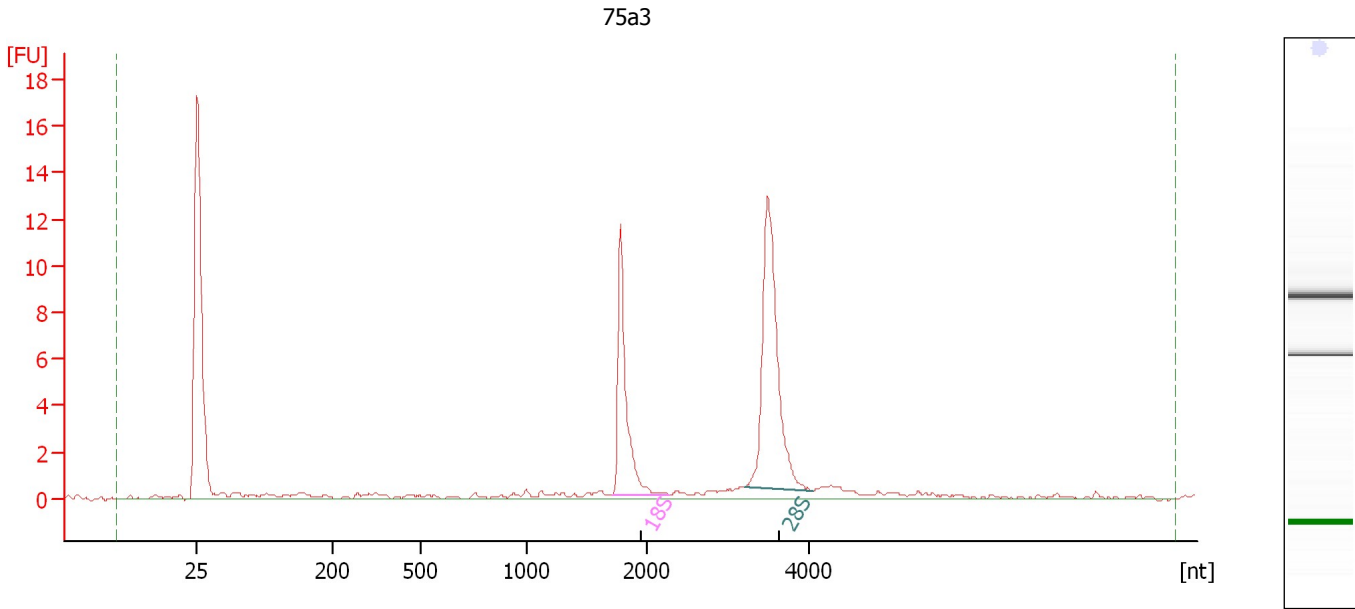
Fragment table for sample 1 : 75a1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	2,256	11.8	28.5
28S	3,205	4,020	18.7	45.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 75a3

RNA Area:	52.9	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	33 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.90

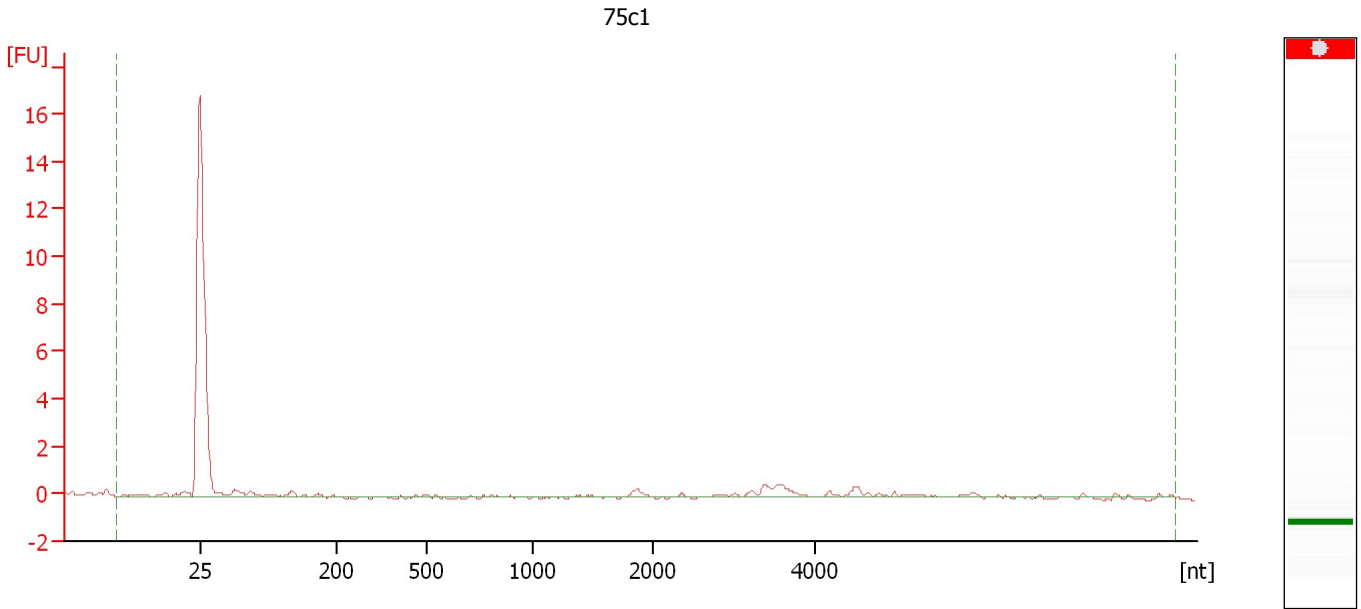
Fragment table for sample 2 : 75a3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,711	2,271	11.8	22.3
28S	3,202	4,054	20.0	37.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



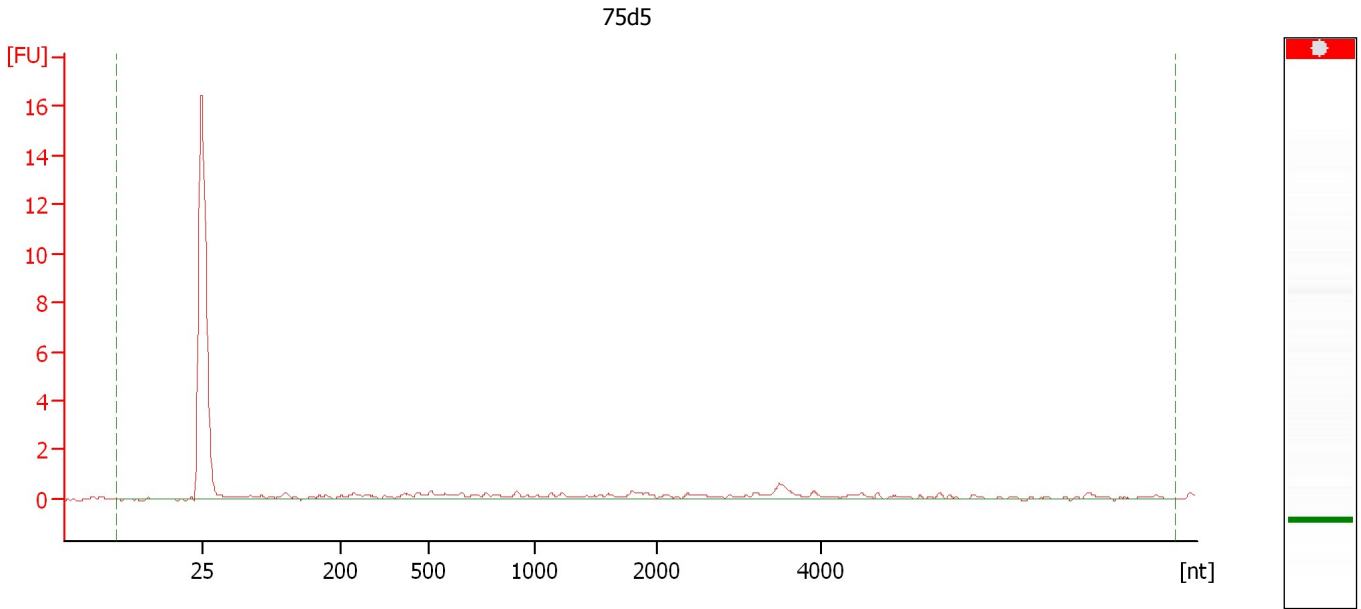
Overall Results for sample 3 : 75c1

RNA Area:	7.7	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_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



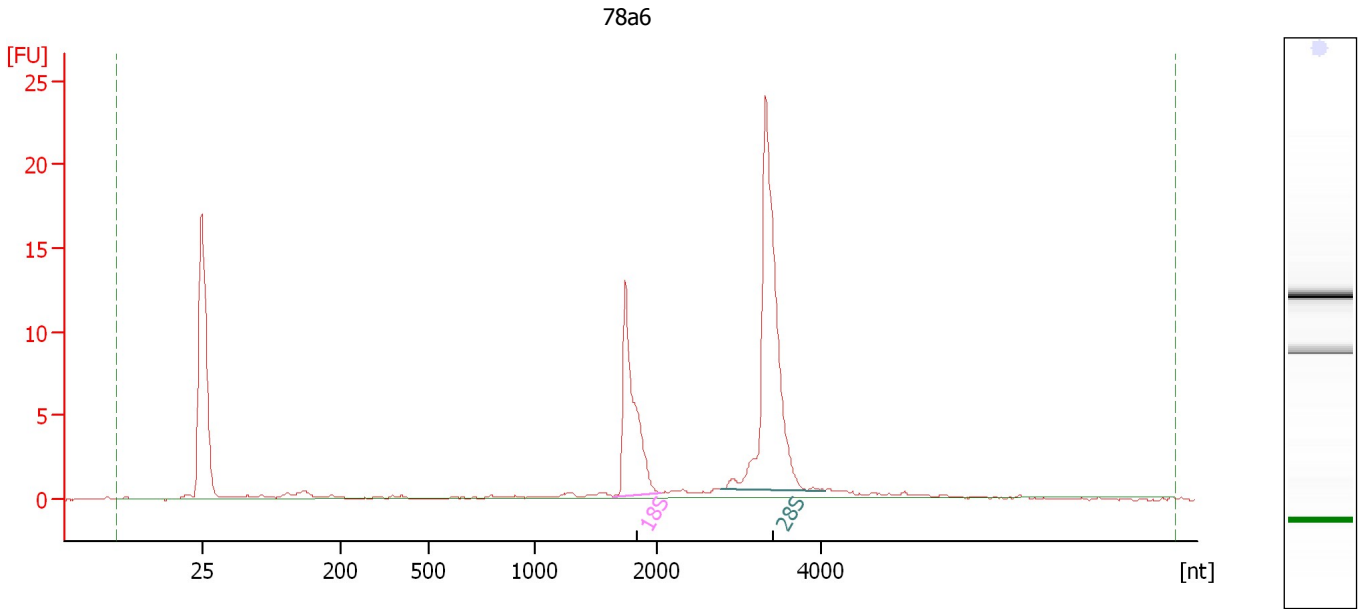
Overall Results for sample 4 : 75d5

RNA Area:	10.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 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_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 78a6

RNA Area: 70.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 44 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:10

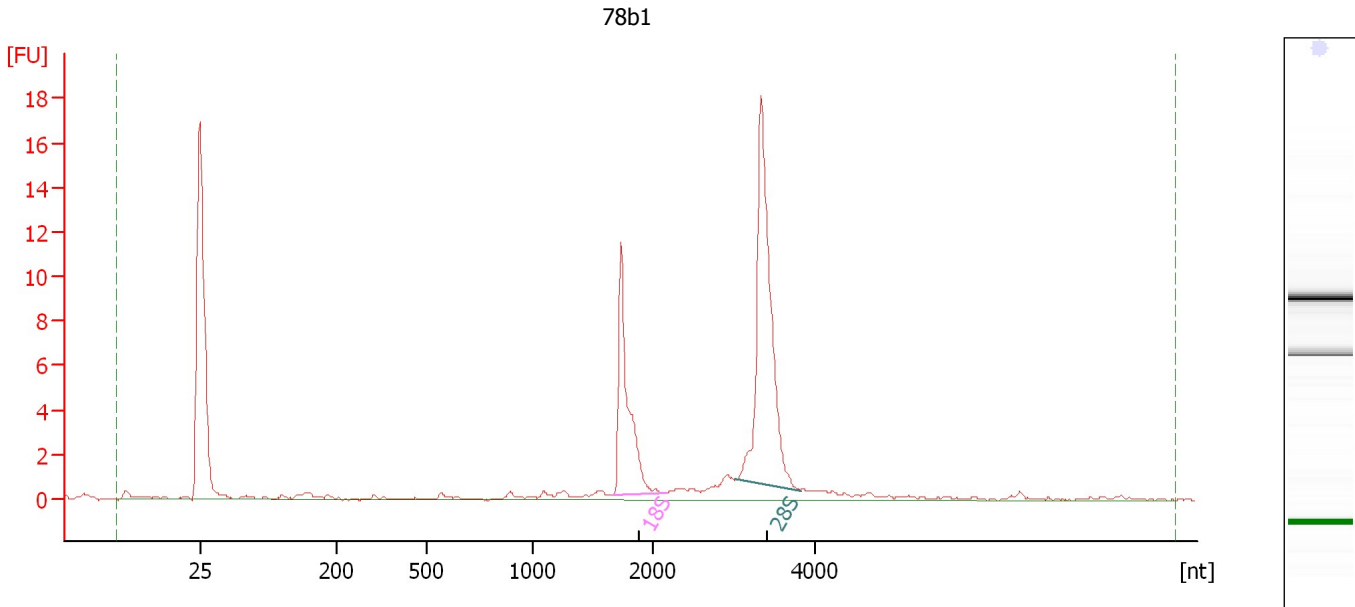
Fragment table for sample 5 : 78a6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	2,037	17.4	24.7
28S	2,774	4,051	36.6	52.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 78b1

RNA Area:	60.9	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	38 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:10

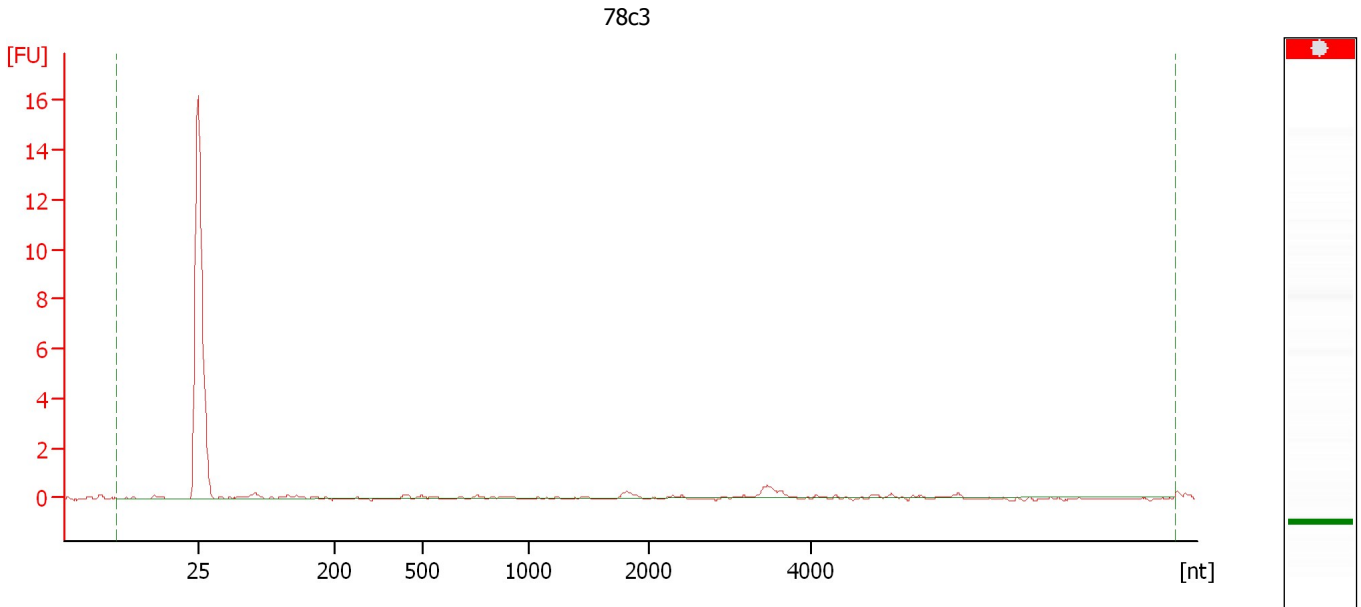
Fragment table for sample 6 : 78b1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	2,154	13.3	21.9
28S	3,013	3,820	25.9	42.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



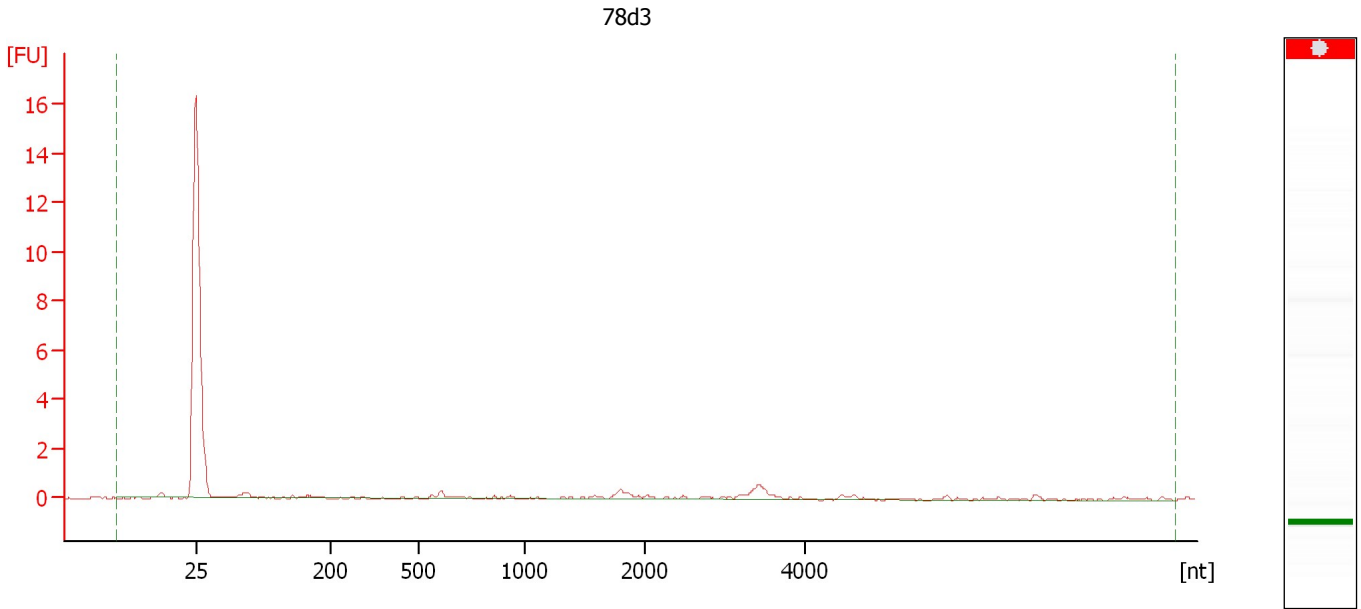
Overall Results for sample 7 : 78c3

RNA Area:	3.7	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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



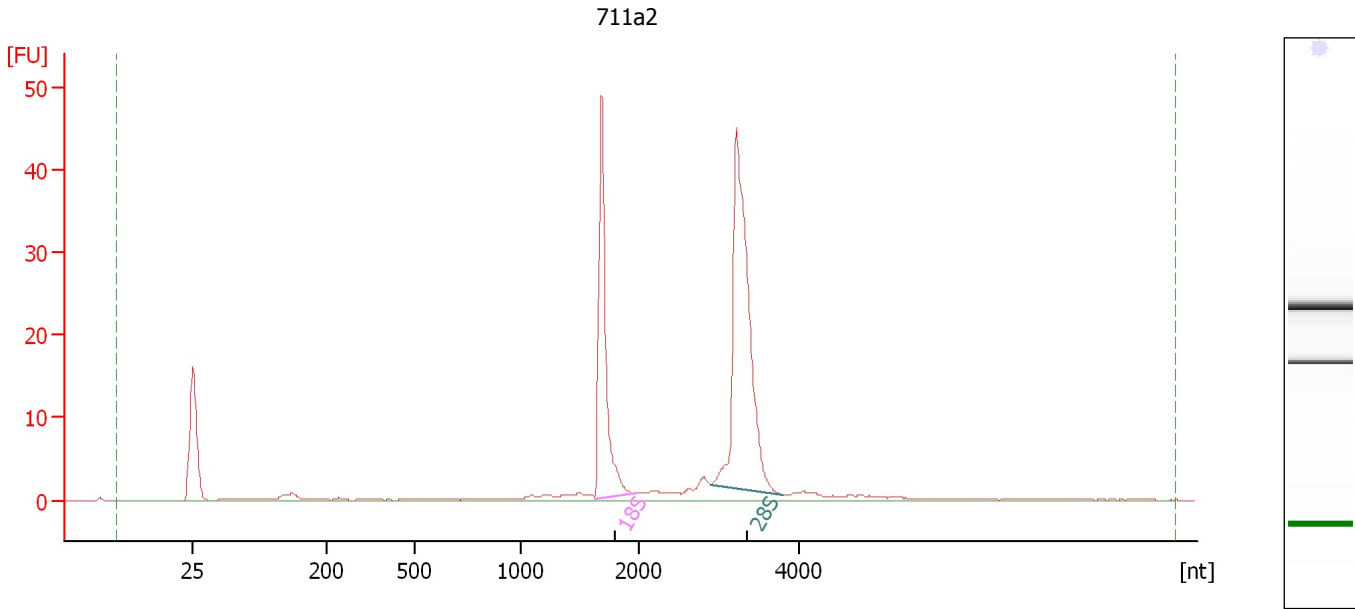
Overall Results for sample 8 : 78d3

RNA Area:	6.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 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_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 711a2

RNA Area: 161.5 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 101 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

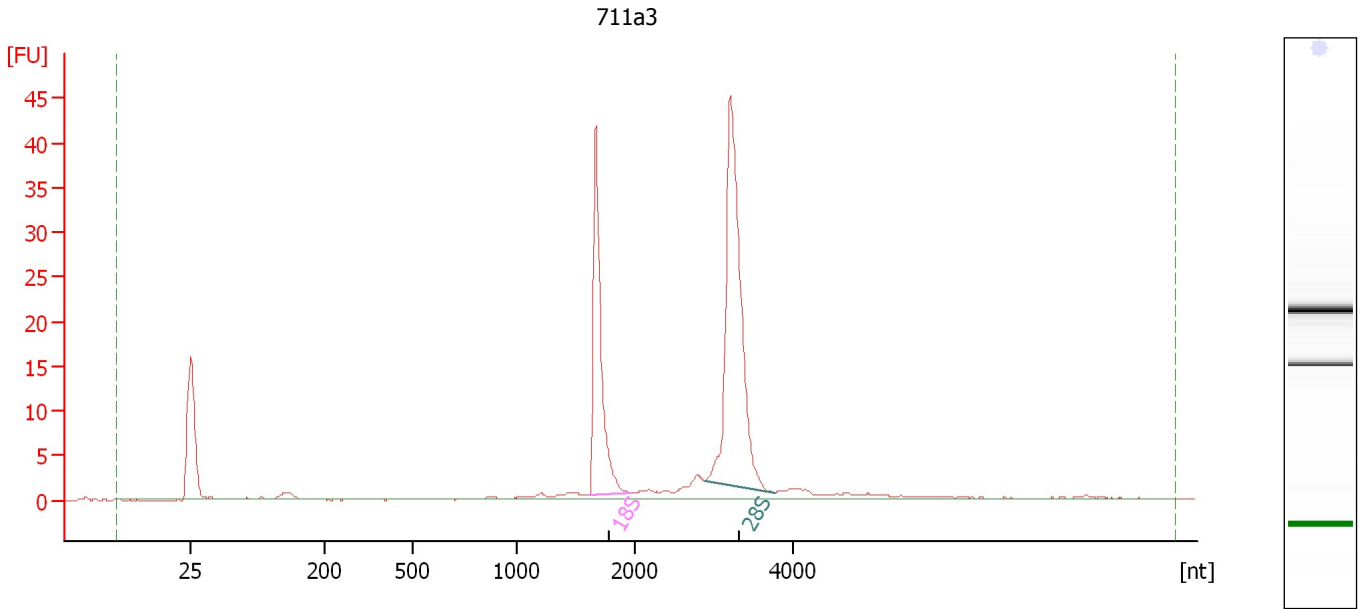
Fragment table for sample 9 : 711a2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,633	1,973	42.6	26.4
28S	2,885	3,798	74.7	46.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 711a3

RNA Area: 149.0 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 93 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:10

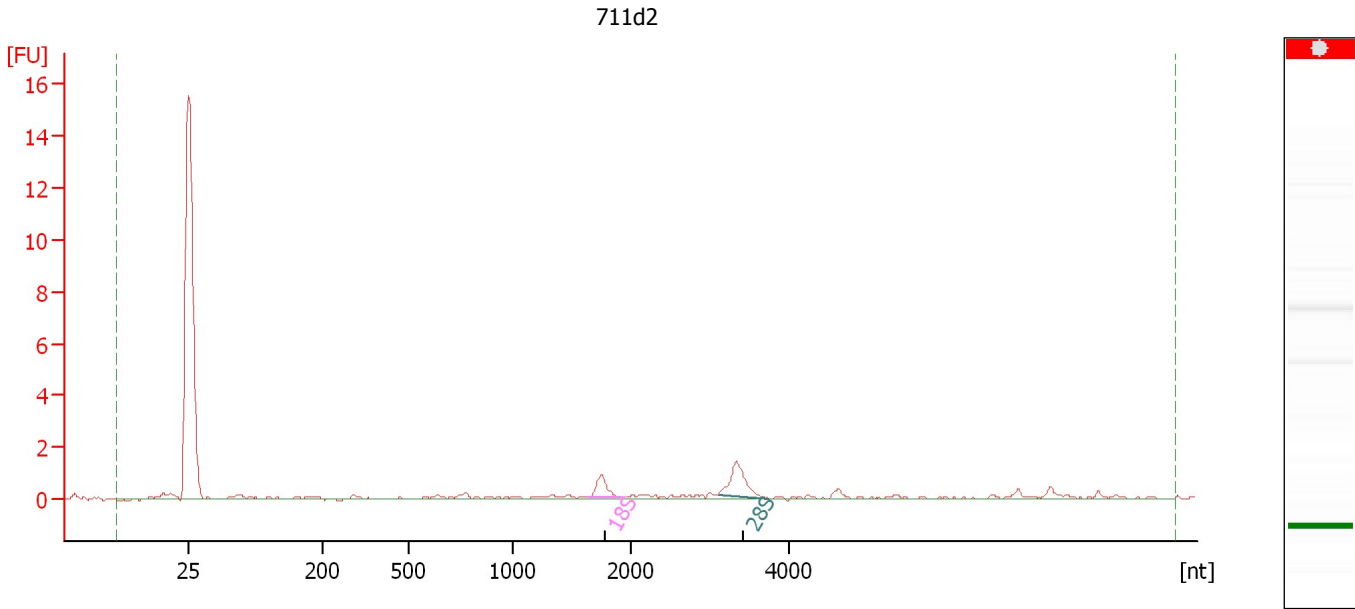
Fragment table for sample 10 : 711a3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,612	1,962	39.2	26.3
28S	2,887	3,750	72.2	48.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 711d2

RNA Area:	12.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN N/A

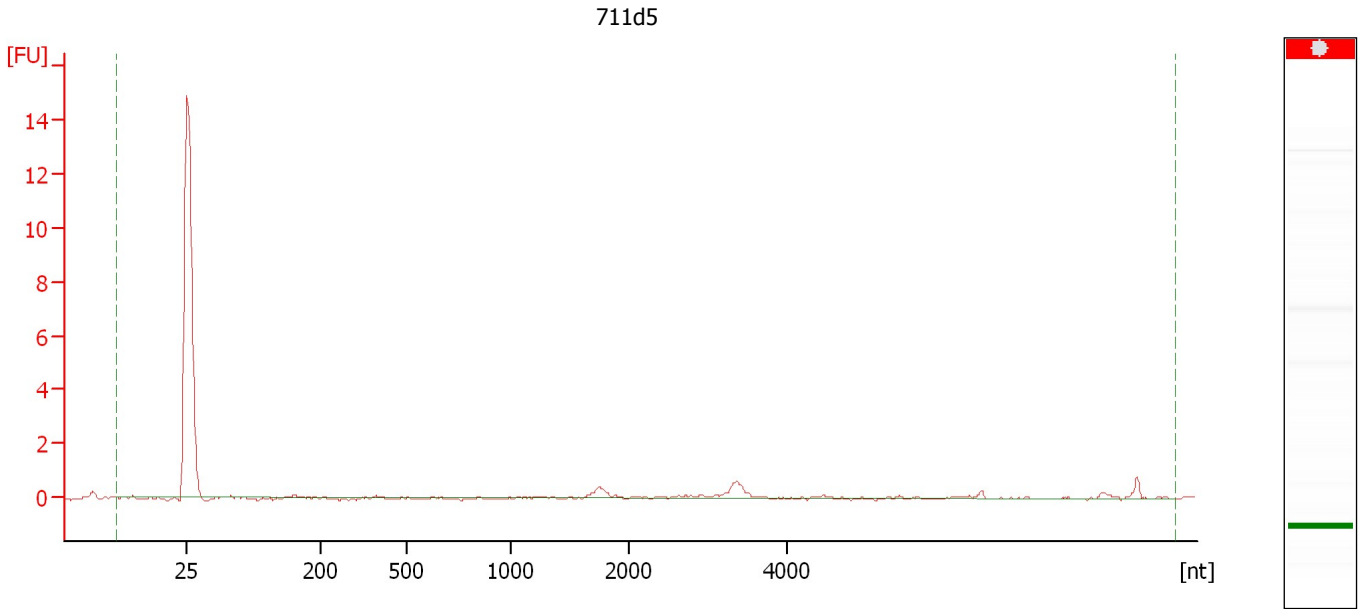
Fragment table for sample 11 : 711d2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,915	1.2	9.4
28S	3,105	3,755	2.2	17.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Electropherogram Summary Continued ...



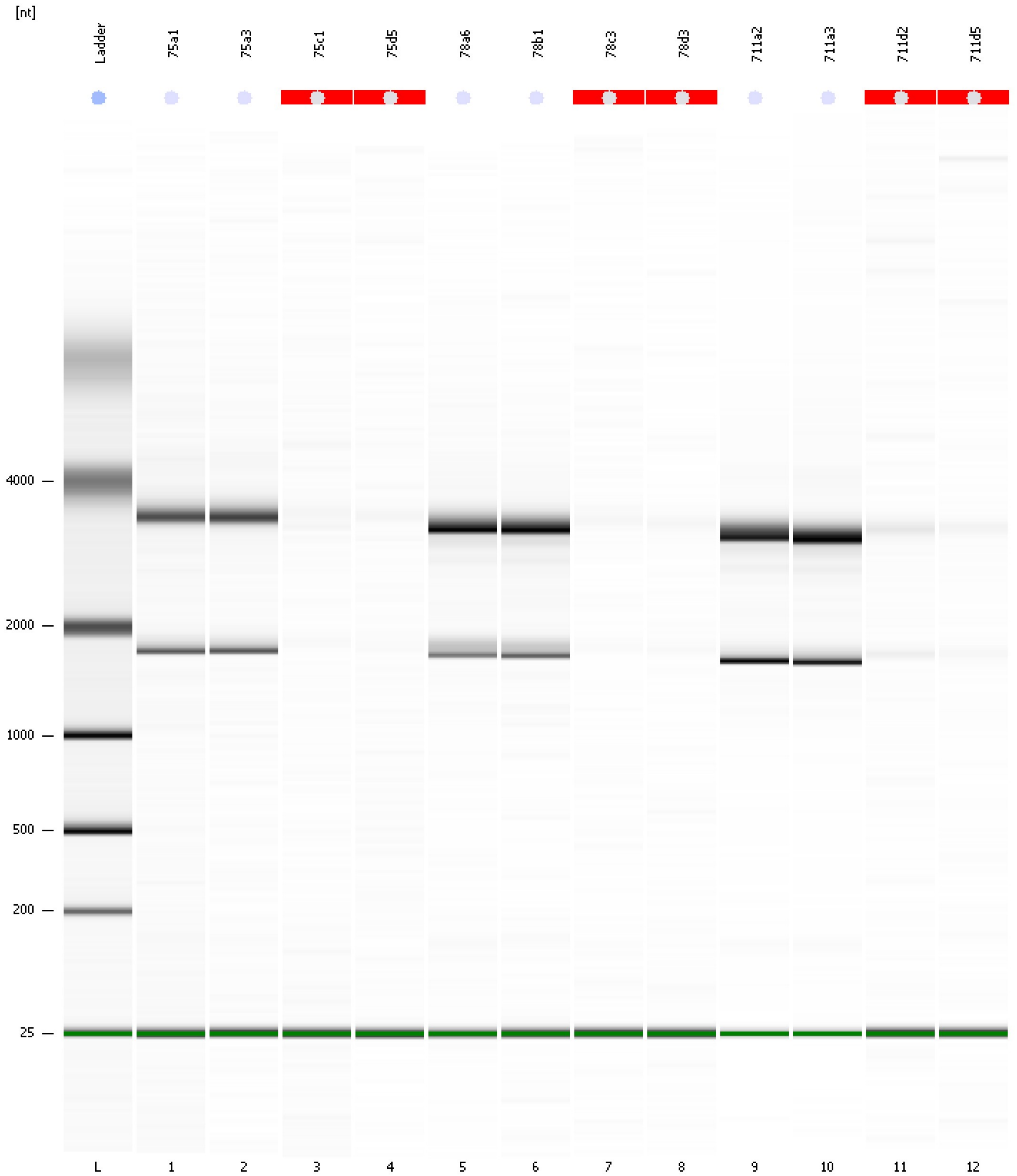
Overall Results for sample 12 : 711d5

RNA Area:	3.2	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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
Modified: 7/25/2019 11:05:32 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_002.xad

Created: 7/25/2019 10:41:44 AM
 Modified: 7/25/2019 11:05:32 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 11:05:31 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_002.xad)		Instrument	Run		7/25/2019 10:41:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/25/2019 10:41:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/25/2019 10:41:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/25/2019 10:41:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/25/2019 10:41:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/25/2019 10:41:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/25/2019 10:41:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1