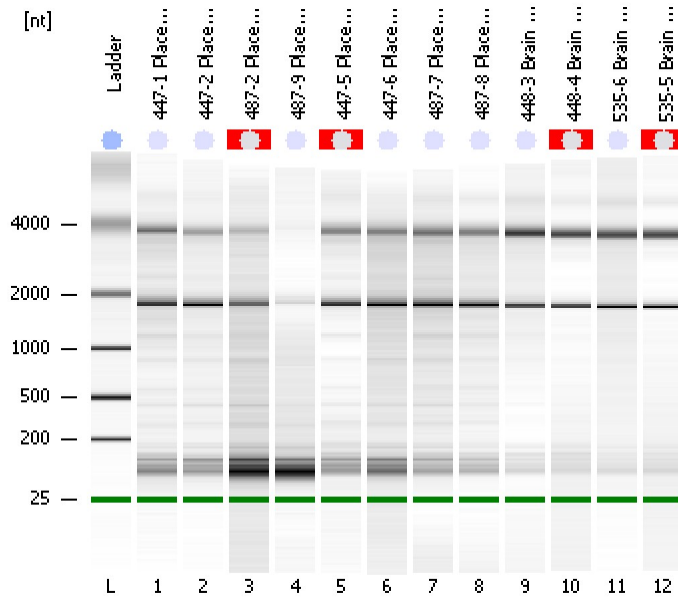


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electrophoresis File Run Summary



Instrument Information:

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

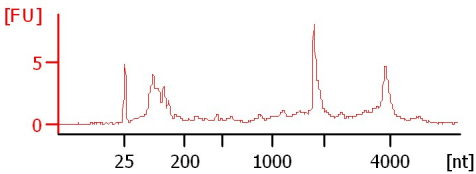
Assay Information:

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

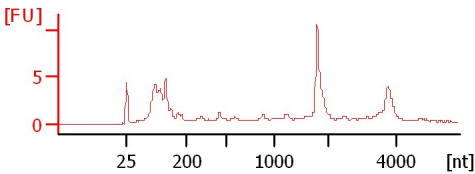
Chip Information:

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

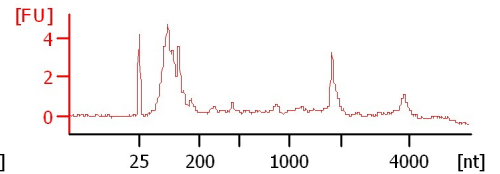
447-1 Placenta RNA
RIN: 6.90



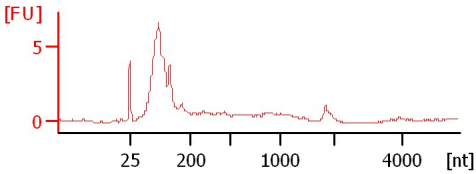
447-2 Placenta RNA
RIN: 7.20



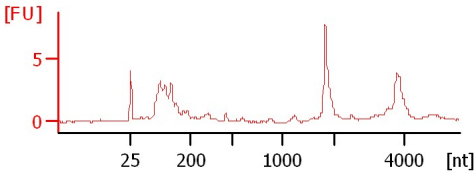
487-2 Placenta RNA
RIN N/A



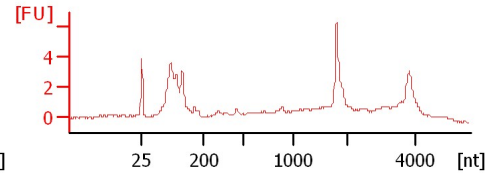
487-9 Placenta RNA
RIN: 2.90



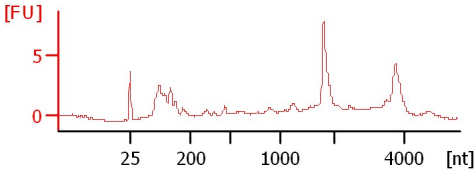
447-5 Placenta RNA
RIN N/A



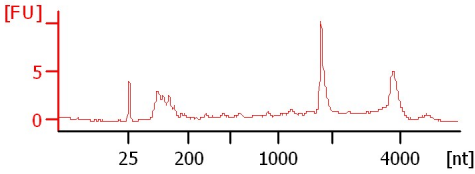
447-6 Placenta RNA
RIN: 6.40



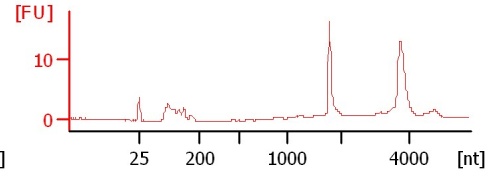
487-7 Placenta RNA
RIN: 6.70



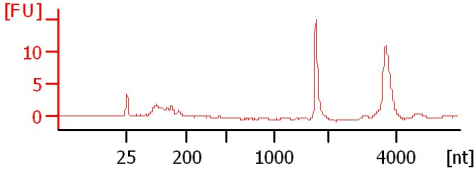
487-8 Placenta RNA
RIN: 7



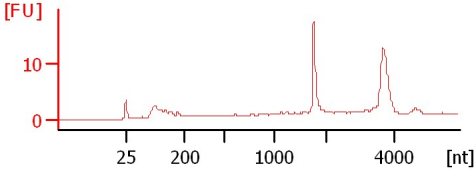
448-3 Brain RNA
RIN: 9.50



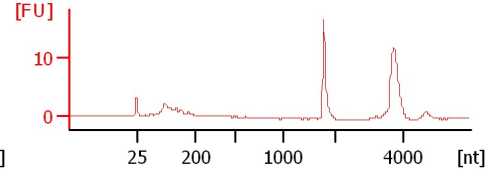
448-4 Brain RNA
RIN N/A



535-6 Brain RNA
RIN: 8.30



535-5 Brain RNA
RIN N/A



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
 Modified: 12/1/2016 11:54:47 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
447-1 Placenta RNA		✓	RIN: 6.90	
447-2 Placenta RNA		✓	RIN: 7.20	
487-2 Placenta RNA		✓	RIN N/A	
487-9 Placenta RNA		✓	RIN: 2.90	
447-5 Placenta RNA		✓	RIN N/A	
447-6 Placenta RNA		✓	RIN: 6.40	
487-7 Placenta RNA		✓	RIN: 6.70	
487-8 Placenta RNA		✓	RIN:7	
448-3 Brain RNA		✓	RIN: 9.50	
448-4 Brain RNA		✓	RIN N/A	
535-6 Brain RNA		✓	RIN: 8.30	
535-5 Brain RNA		✓	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\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 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

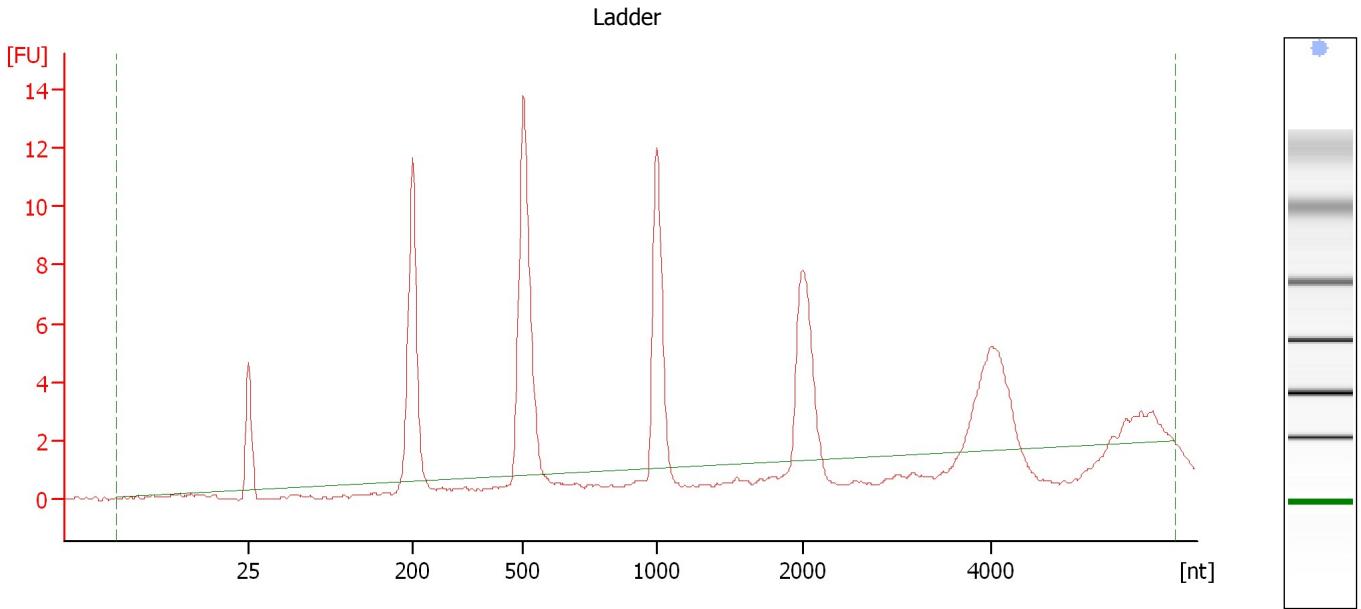
Ladder

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\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary



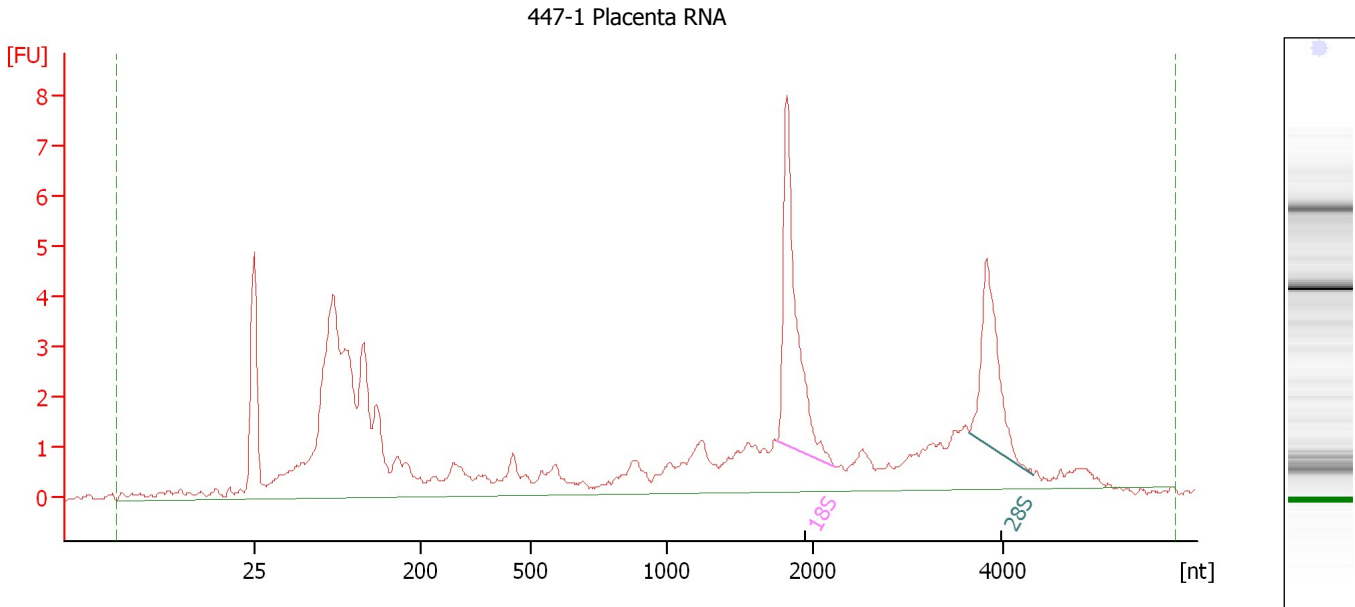
Overall Results for Ladder

RNA Area:	68.1	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\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 447-1 Placenta RNA

RNA Area: 85.6 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 189 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 6.90

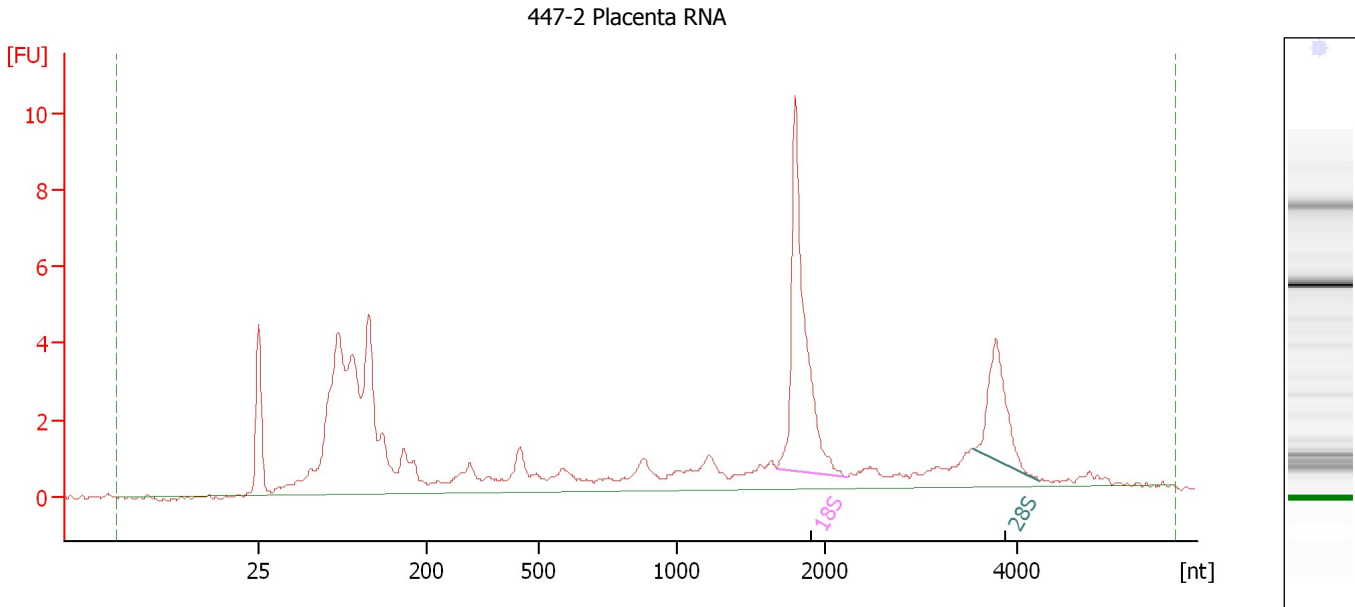
Fragment table for sample 1 : 447-1 Placenta RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	2,224	9.0	10.5
28S	3,642	4,306	5.5	6.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
 Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 447-2 Placenta RNA

RNA Area:	84.1	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	185 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 7.20

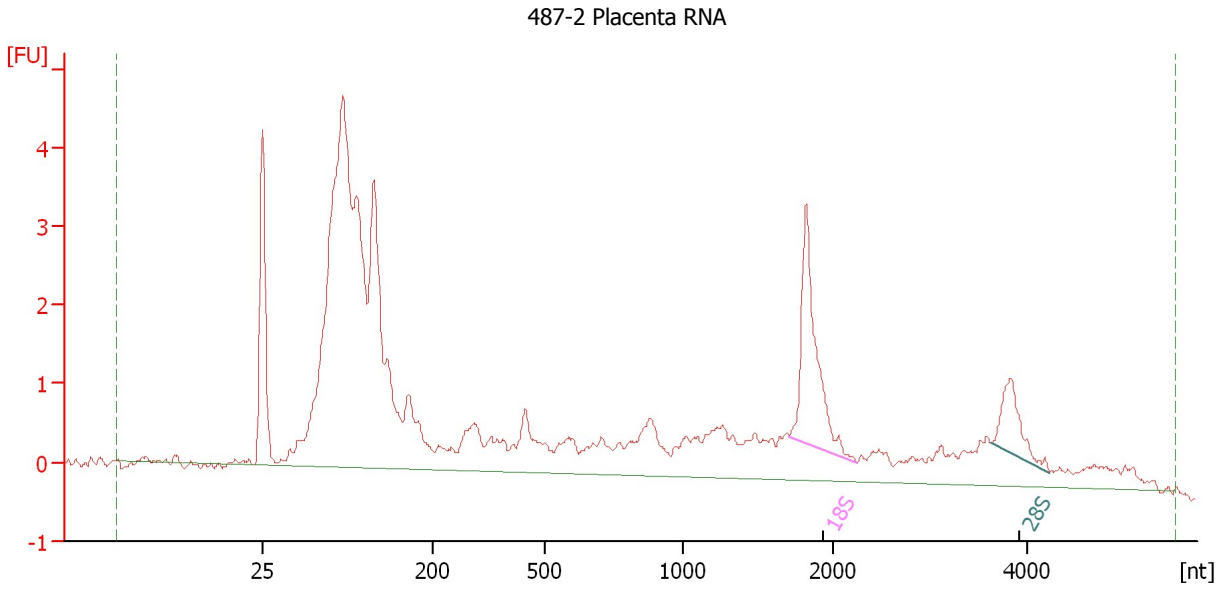
Fragment table for sample 2 : 447-2 Placenta RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	2,232	13.3	15.8
28S	3,559	4,239	4.8	5.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 487-2 Placenta RNA

RNA Area: 71.5 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 158 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN N/A

Fragment table for sample 3 : 487-2 Placenta RNA

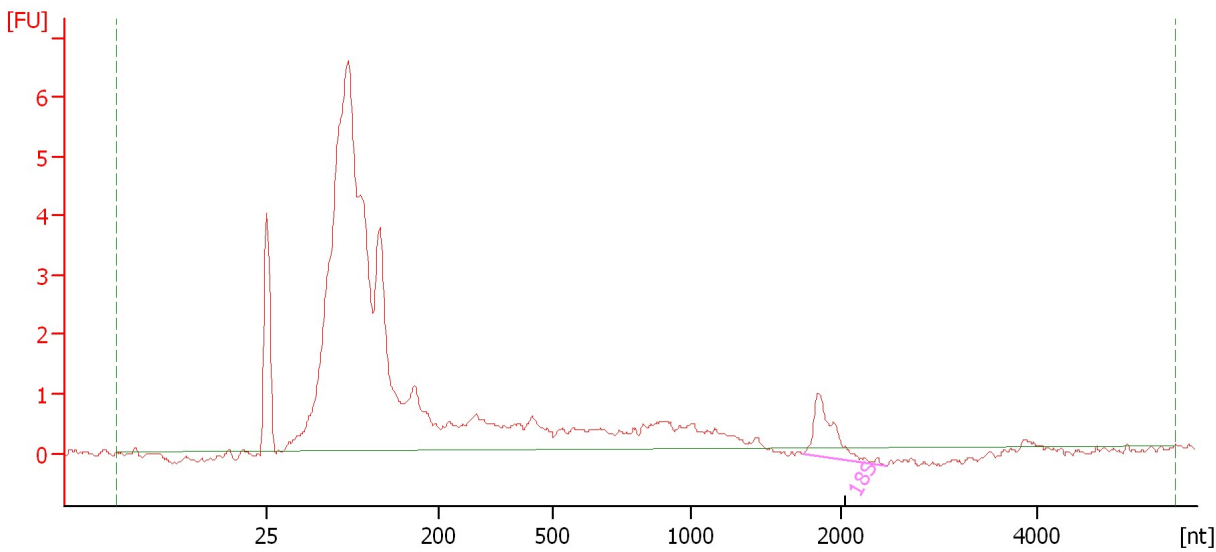
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,252	4.4	6.2
28S	3,635	4,243	1.6	2.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...

487-9 Placenta RNA



Overall Results for sample 4 : 487-9 Placenta RNA

RNA Area:	64.0	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	141 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

Fragment table for sample 4 : 487-9 Placenta RNA

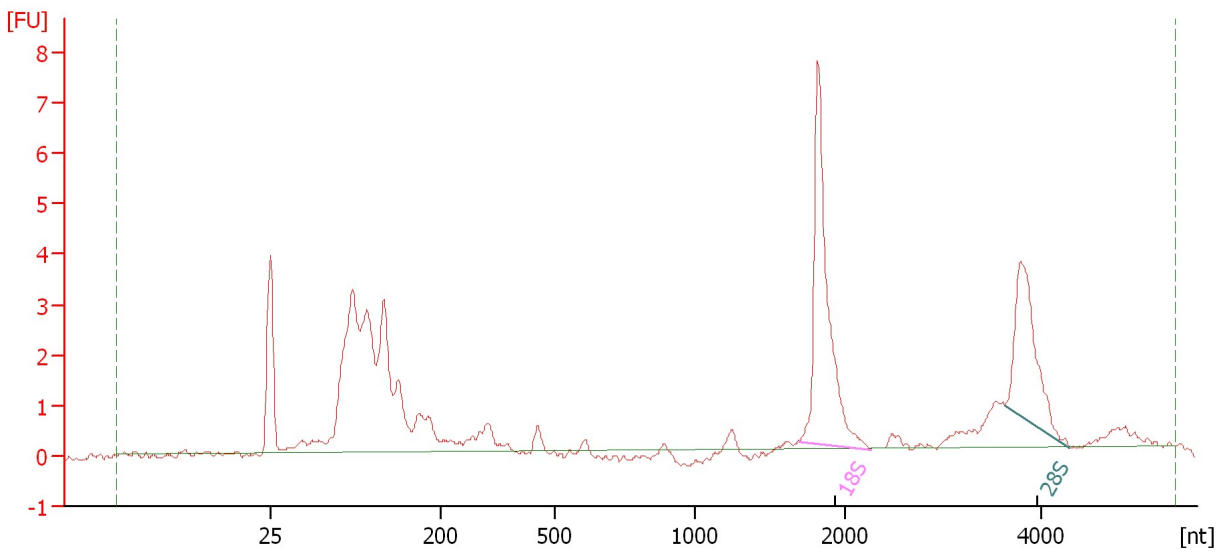
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,742	2,458	2.2	3.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...

447-5 Placenta RNA



Overall Results for sample 5 : 447-5 Placenta RNA

RNA Area:	50.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	111 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN N/A

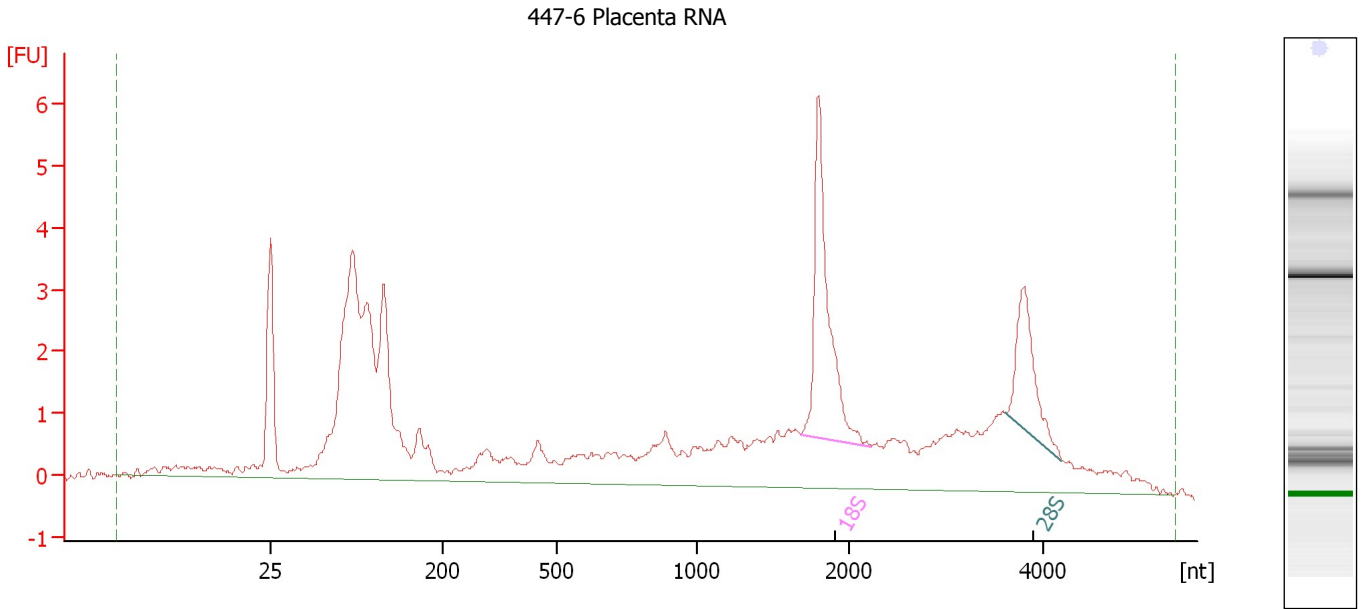
Fragment table for sample 5 : 447-5 Placenta RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	2,248	10.0	19.8
28S	3,627	4,294	5.5	11.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
 Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 447-6 Placenta RNA

RNA Area:	81.9	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	180 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.40

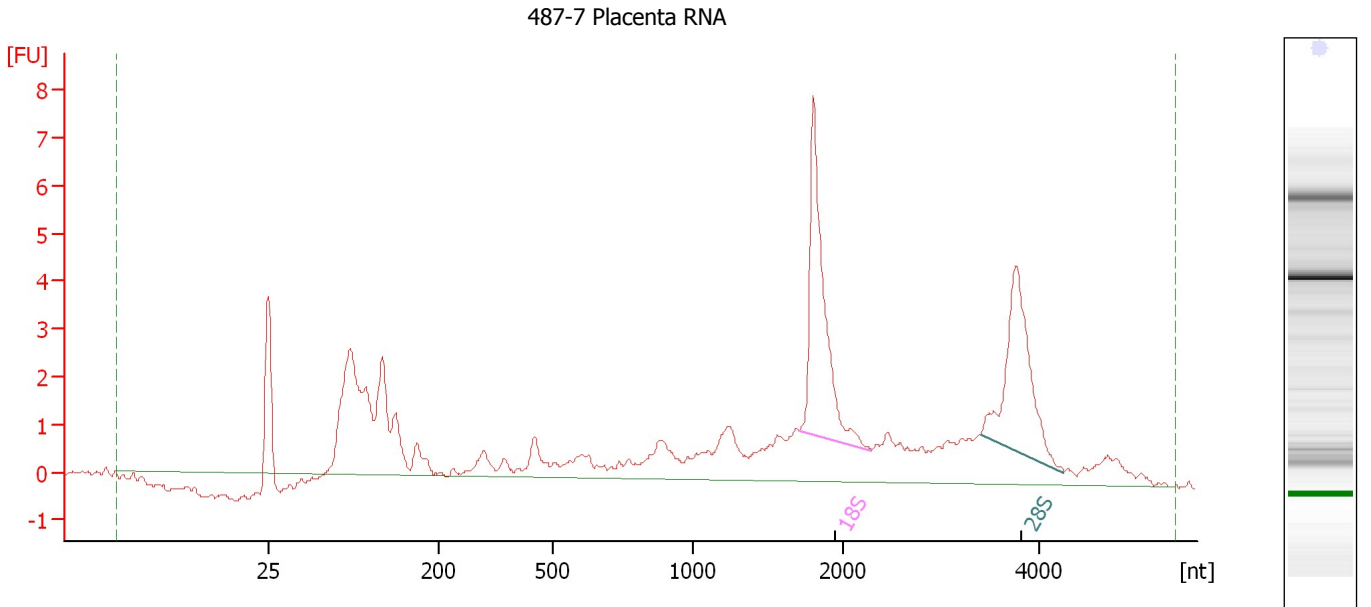
Fragment table for sample 6 : 447-6 Placenta RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	2,237	7.4	9.1
28S	3,602	4,180	3.6	4.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
 Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 487-7 Placenta RNA

RNA Area:	71.8	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	158 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.70

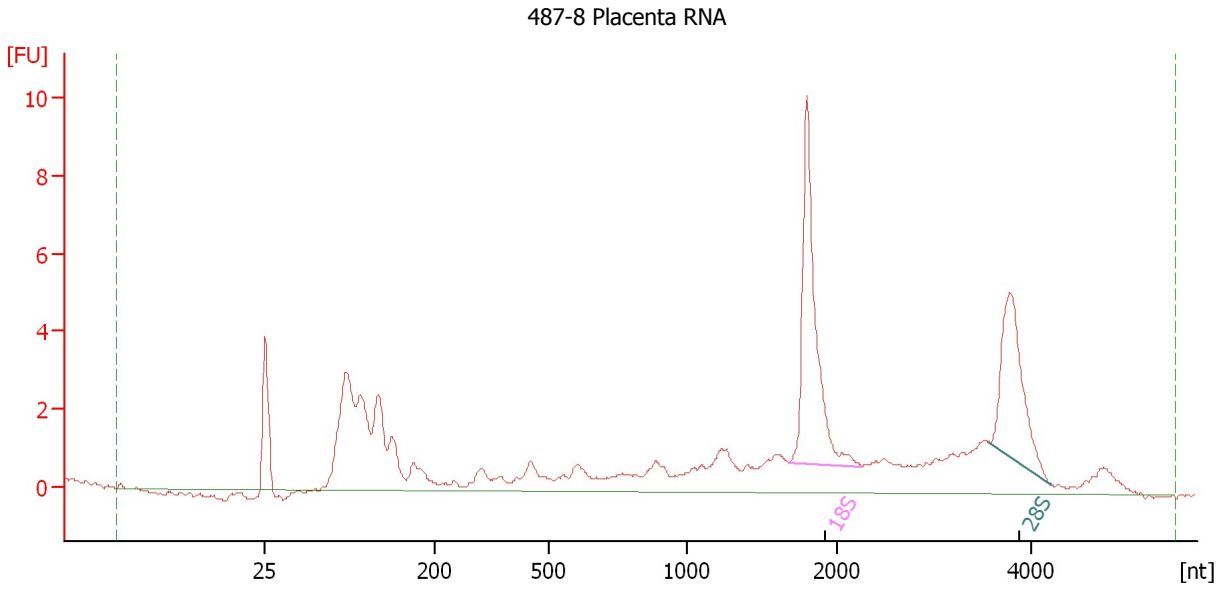
Fragment table for sample 7 : 487-7 Placenta RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,707	2,282	10.0	14.0
28S	3,400	4,254	8.0	11.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 487-8 Placenta RNA

RNA Area: 80.5 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 177 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN:7

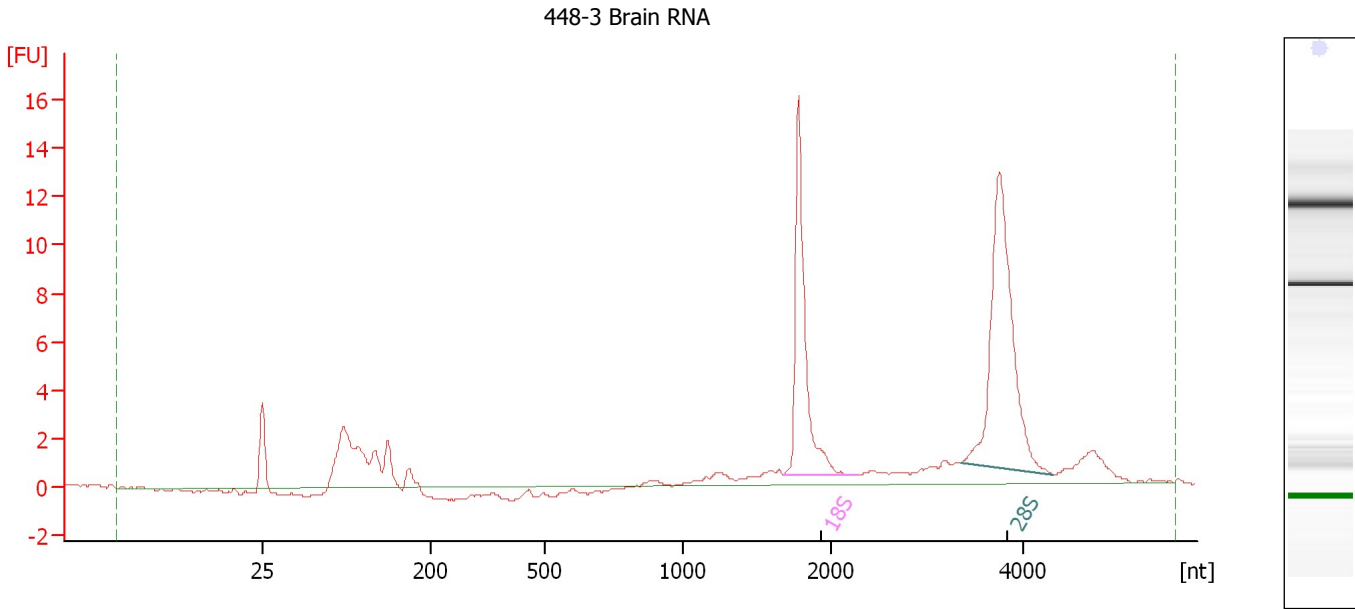
Fragment table for sample 8 : 487-8 Placenta RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,251	12.3	15.3
28S	3,573	4,212	7.8	9.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 448-3 Brain RNA

RNA Area: 72.2 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 159 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.50

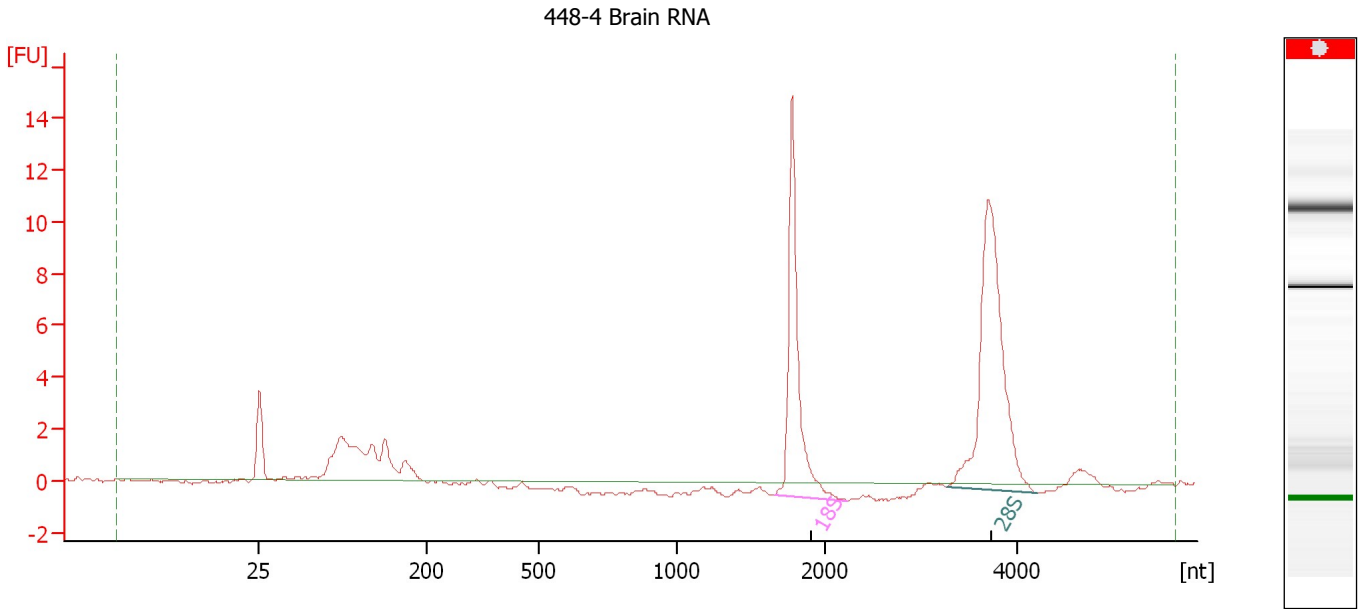
Fragment table for sample 9 : 448-3 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	2,297	15.5	21.5
28S	3,350	4,314	23.0	31.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
 Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 448-4 Brain RNA

RNA Area:	49.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	108 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN N/A

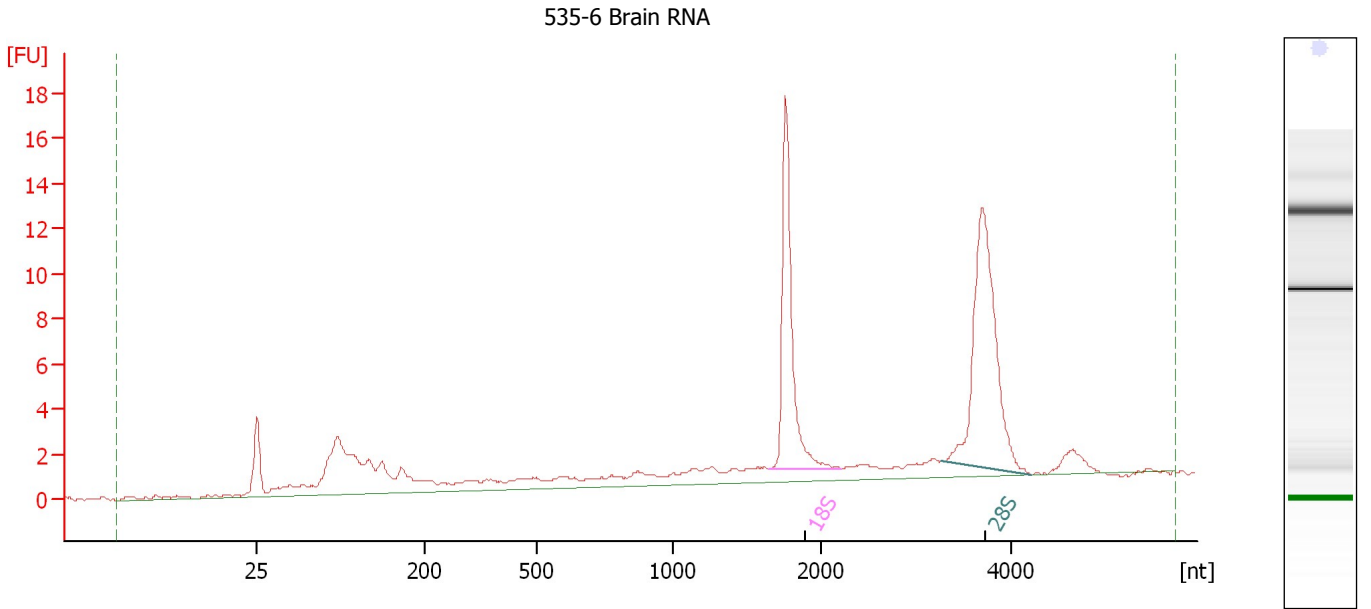
Fragment table for sample 10 : 448-4 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,660	2,243	15.3	31.1
28S	3,269	4,216	22.4	45.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 535-6 Brain RNA

RNA Area: 98.2 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 216 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.30

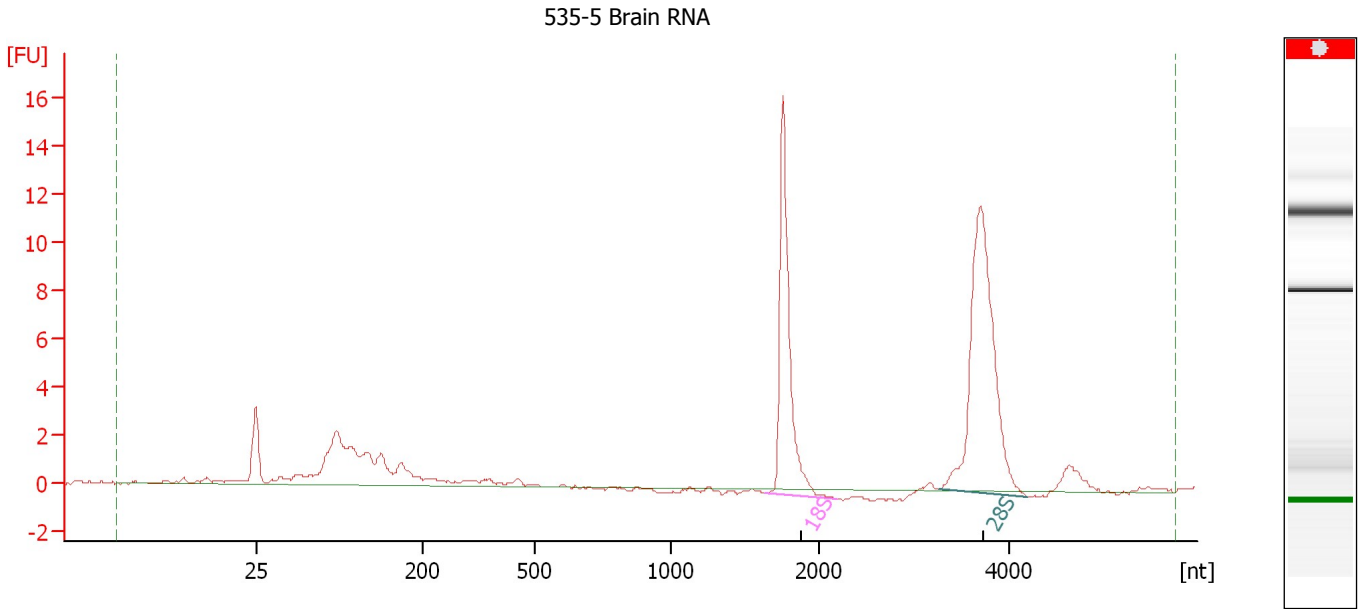
Fragment table for sample 11 : 535-6 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	2,222	16.0	16.3
28S	3,274	4,214	22.6	23.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 535-5 Brain RNA

RNA Area:	68.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	151 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN N/A

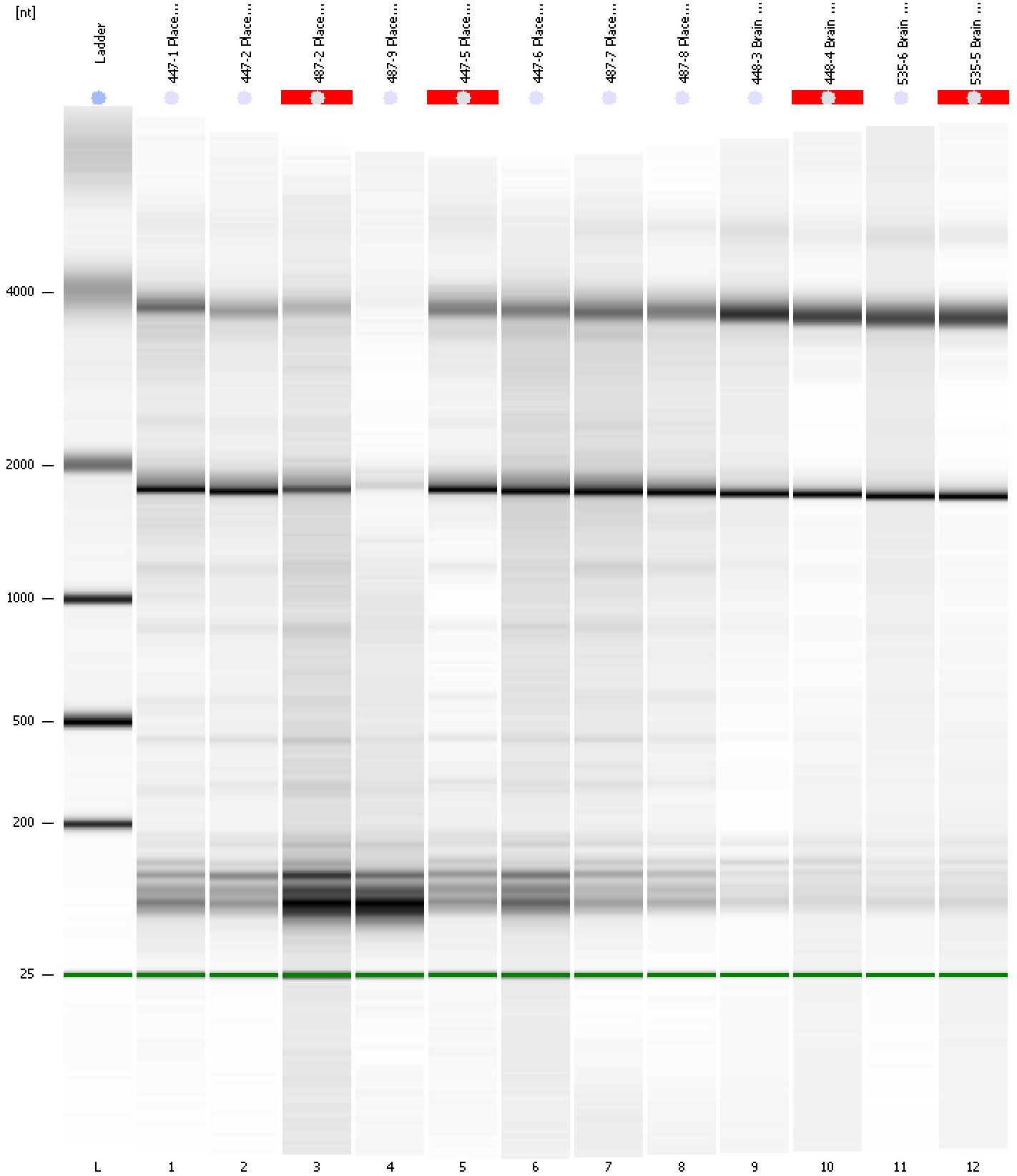
Fragment table for sample 12 : 535-5 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	2,189	16.6	24.2
28S	3,277	4,185	24.7	36.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
Modified: 12/1/2016 11:54:47 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad

Created: 12/1/2016 11:30:59 AM
 Modified: 12/1/2016 11:54:47 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		12/1/2016 11:54:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_001.xad)		Instrument	Run		12/1/2016 11:31:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/1/2016 11:31:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/1/2016 11:31:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/1/2016 11:31:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/1/2016 11:31:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/1/2016 11:31:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/1/2016 11:31:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1