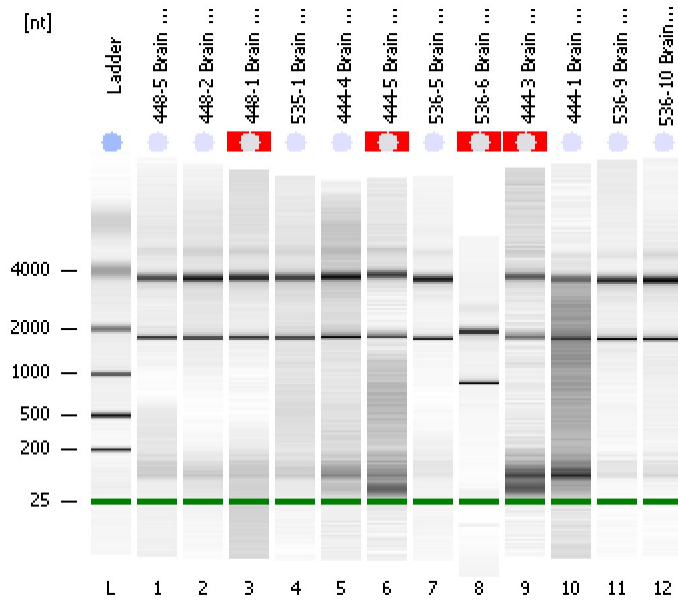


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electrophoresis File Run Summary



Instrument Information:

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

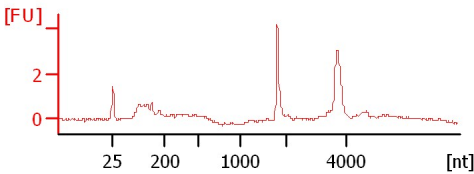
Assay Information:

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

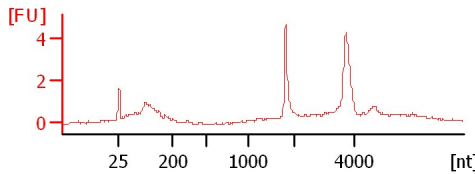
Chip Information:

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

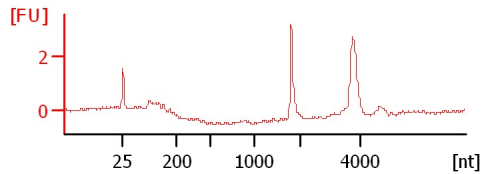
448-5 Brain RNA
RIN: 8.60



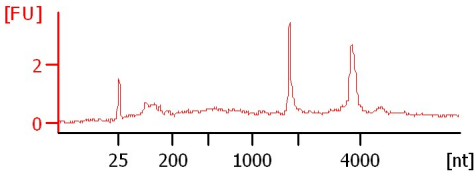
448-2 Brain RNA
RIN: 9.30



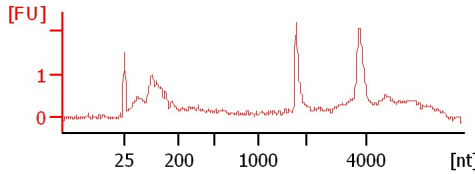
448-1 Brain RNA
RIN N/A



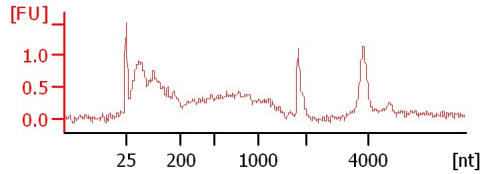
535-1 Brain RNA
RIN: 6.80



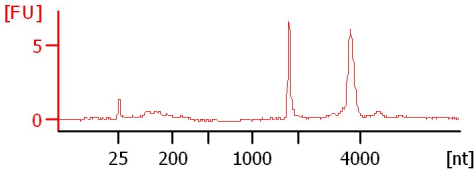
444-4 Brain RNA
RIN: 7.40



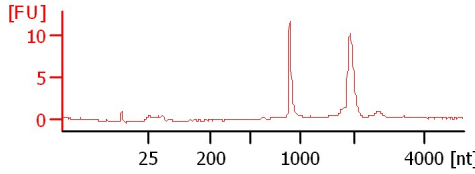
444-5 Brain RNA
RIN N/A



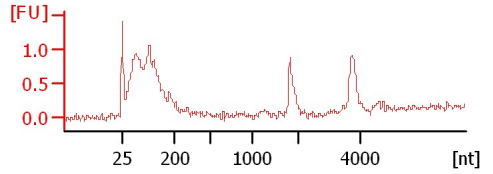
536-5 Brain RNA
RIN: 9.80



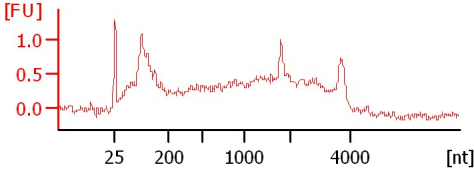
536-6 Brain RNA
RIN N/A



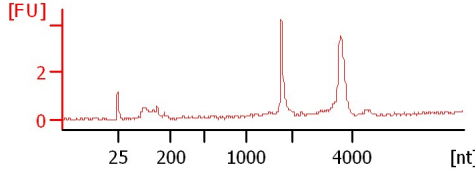
444-3 Brain RNA
RIN N/A



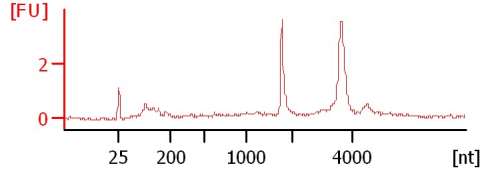
444-1 Brain RNA
RIN: 2.70



536-9 Brain RNA
RIN: 9.40



536-10 Brain RNA
RIN: 8.20



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
 Modified: 12/1/2016 12:34:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
448-5 Brain RNA		✓	RIN: 8.60	
448-2 Brain RNA		✓	RIN: 9.30	
448-1 Brain RNA		✓	RIN N/A	
535-1 Brain RNA		✓	RIN: 6.80	
444-4 Brain RNA		✓	RIN: 7.40	
444-5 Brain RNA		✓	RIN N/A	
536-5 Brain RNA		✓	RIN: 9.80	
536-6 Brain RNA		✓	RIN N/A	
444-3 Brain RNA		✓	RIN N/A	
444-1 Brain RNA		✓	RIN: 2.70	
536-9 Brain RNA		✓	RIN: 9.40	
536-10 Brain RNA		✓	RIN: 8.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

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

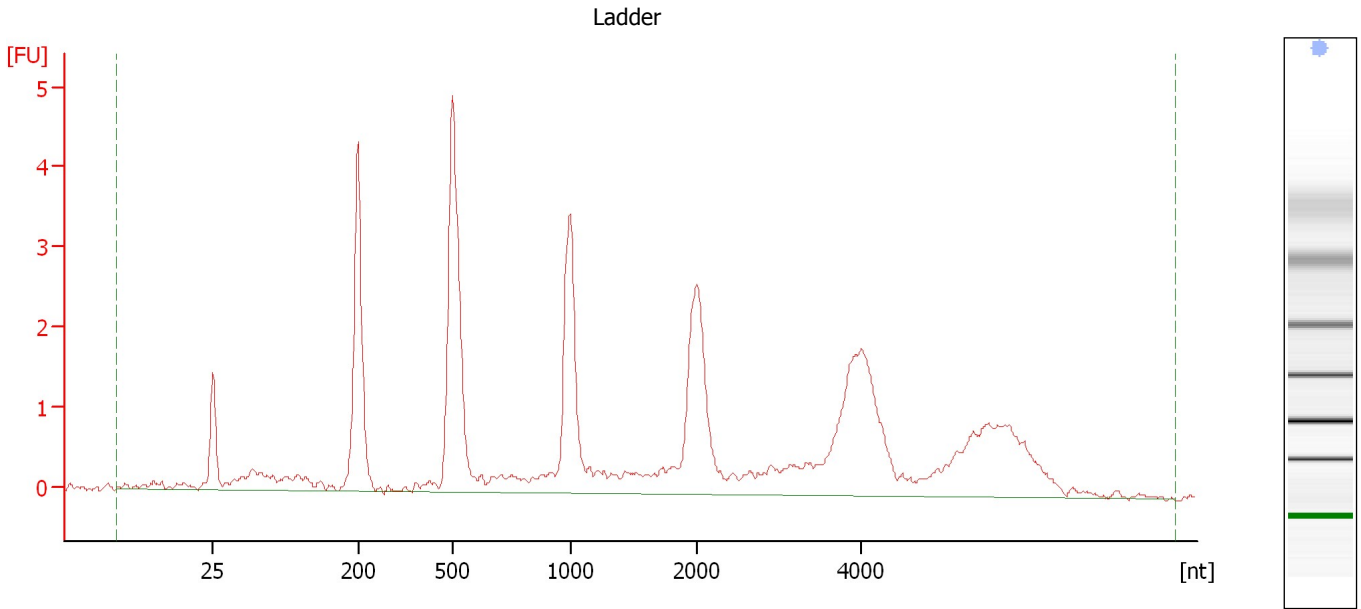
Ladder

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_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary



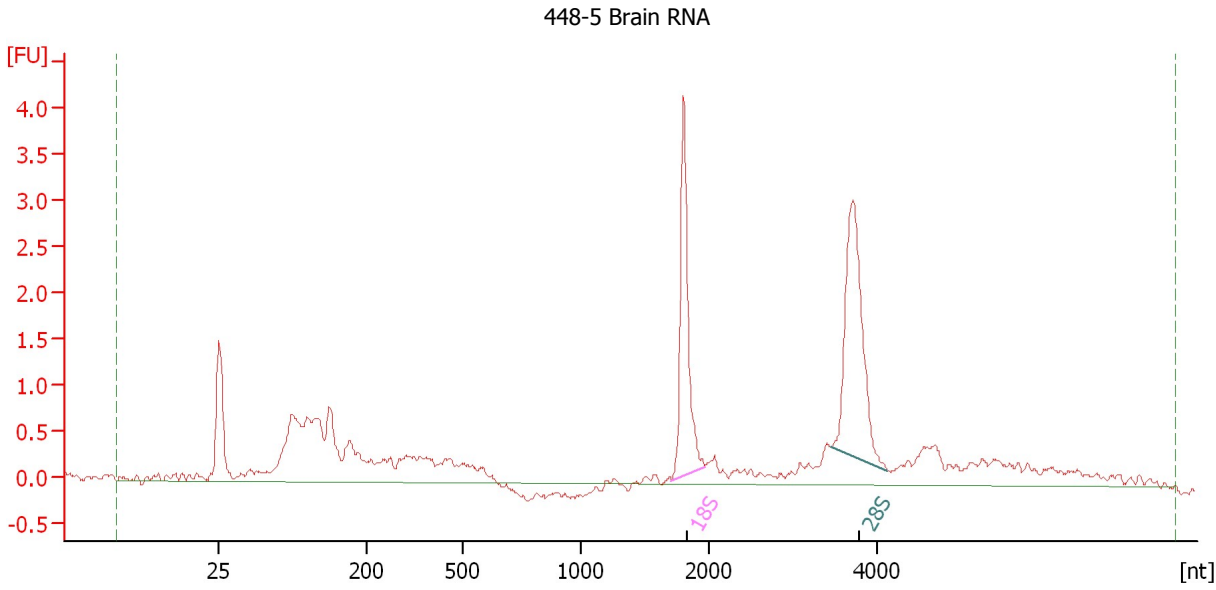
Overall Results for Ladder

RNA Area:	51.2	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_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 448-5 Brain RNA

RNA Area: 28.2 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 83 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.60

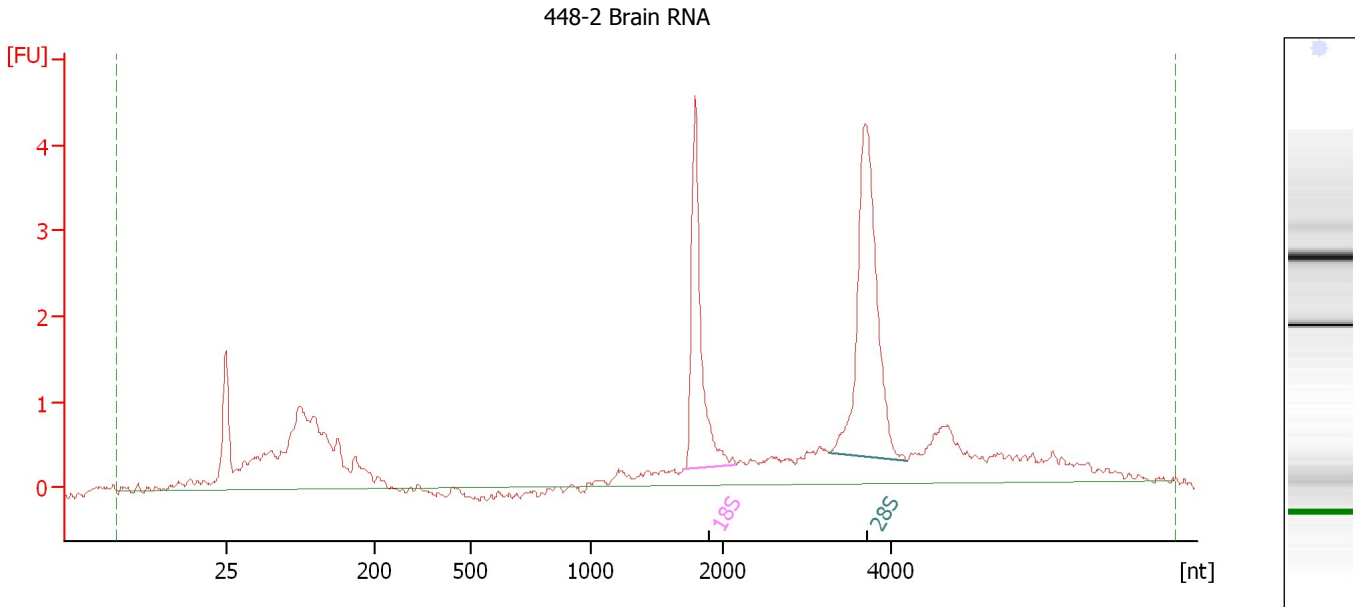
Fragment table for sample 1 : 448-5 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,704	1,961	3.8	13.3
28S	3,453	4,133	4.7	16.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 448-2 Brain RNA

RNA Area: 36.4 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 107 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.30

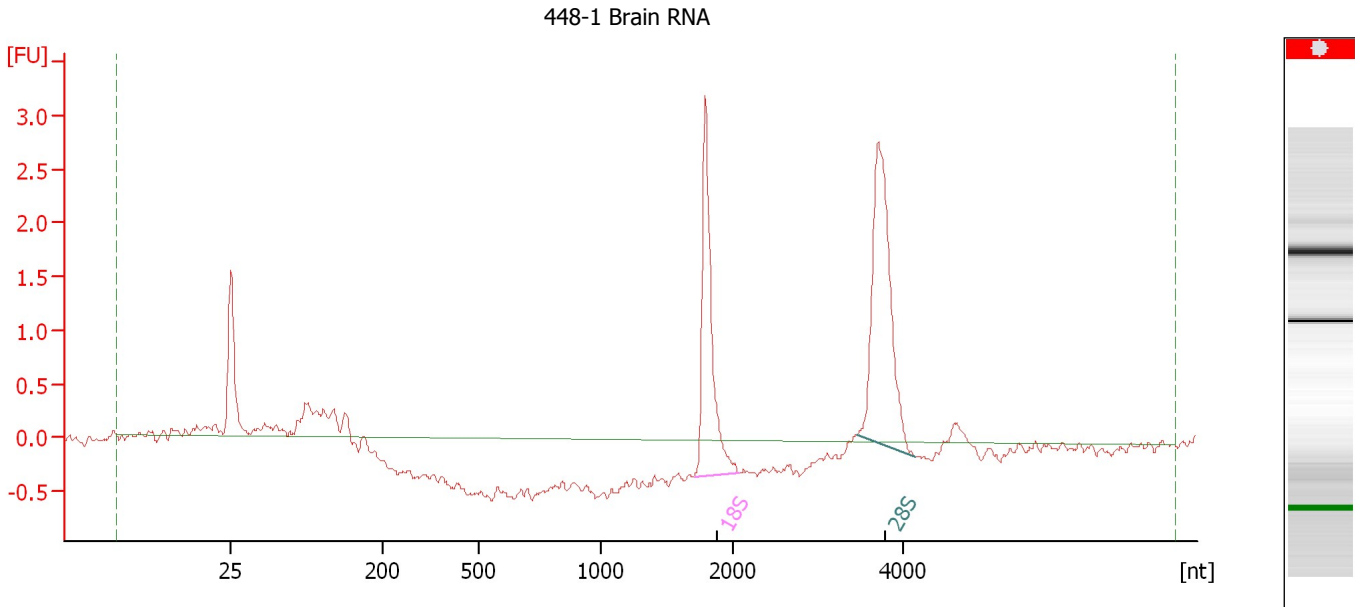
Fragment table for sample 2 : 448-2 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,718	2,160	4.5	12.3
28S	3,262	4,187	7.4	20.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
 Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 448-1 Brain RNA

RNA Area:	10.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN N/A

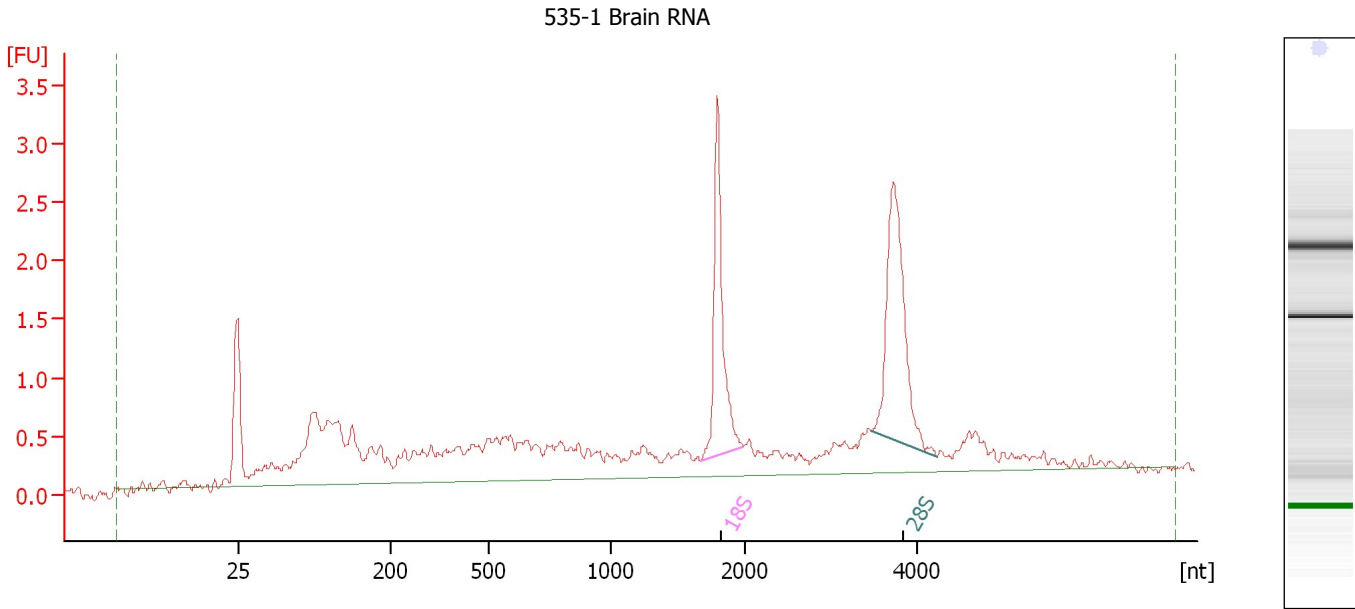
Fragment table for sample 3 : 448-1 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,707	2,087	3.7	35.0
28S	3,466	4,131	4.9	47.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 535-1 Brain RNA

RNA Area: 29.9 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 88 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 6.80

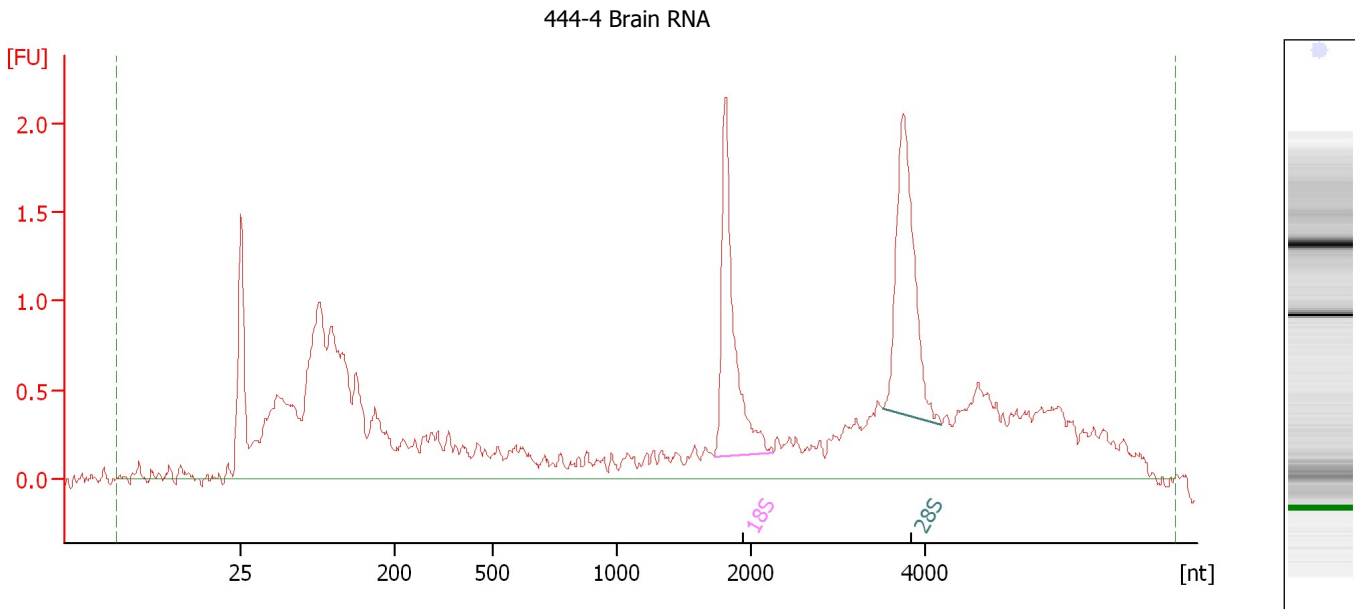
Fragment table for sample 4 : 535-1 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	1,986	3.0	10.0
28S	3,453	4,222	3.8	12.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
 Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 444-4 Brain RNA

RNA Area:	32.0	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	94 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.40

Fragment table for sample 5 : 444-4 Brain RNA

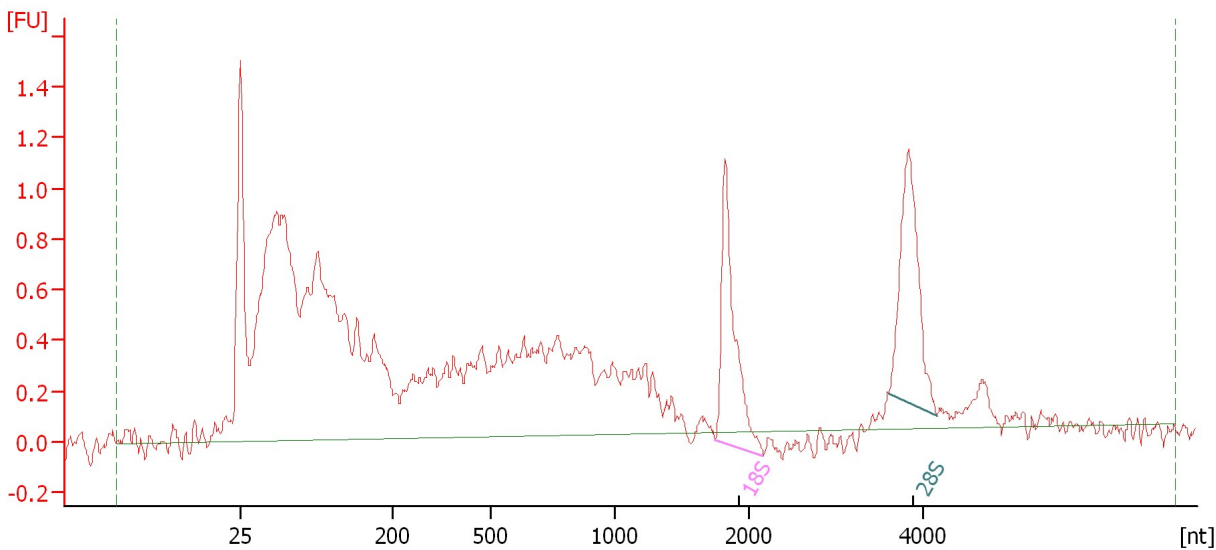
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	2,252	2.6	8.1
28S	3,508	4,198	2.9	9.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
 Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...

444-5 Brain RNA



Overall Results for sample 6 : 444-5 Brain RNA

RNA Area:	26.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	77 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN N/A

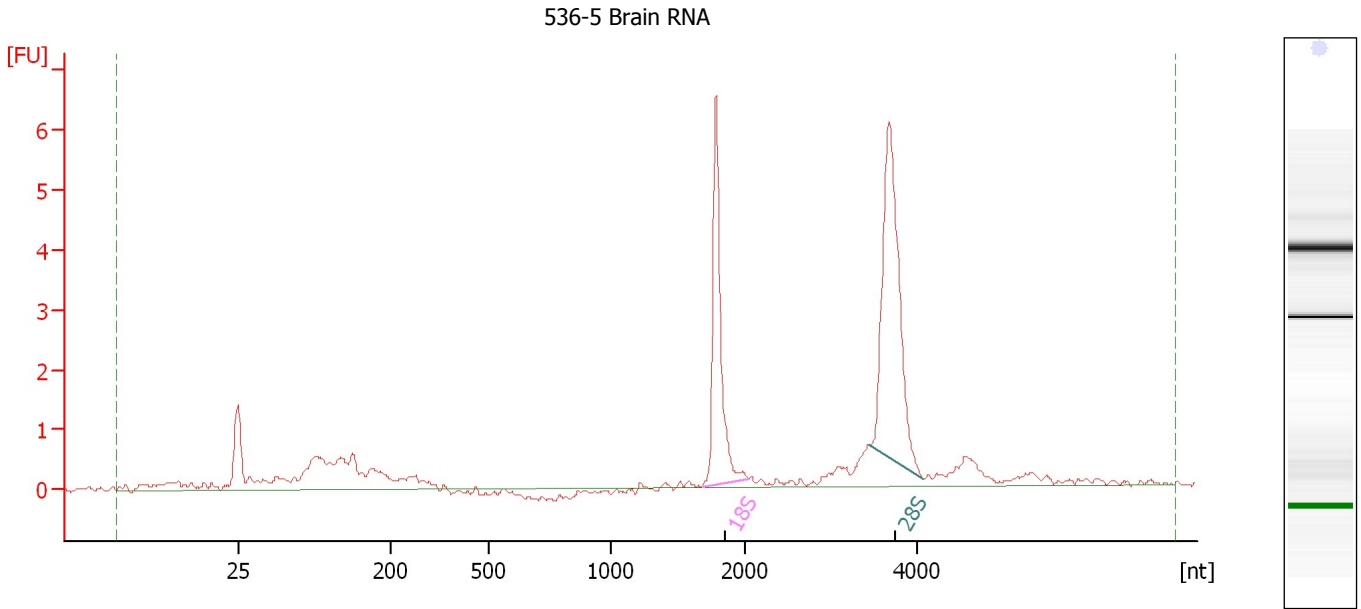
Fragment table for sample 6 : 444-5 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,739	2,165	1.6	5.9
28S	3,609	4,165	1.7	6.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 536-5 Brain RNA

RNA Area: 31.8 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 93 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.80

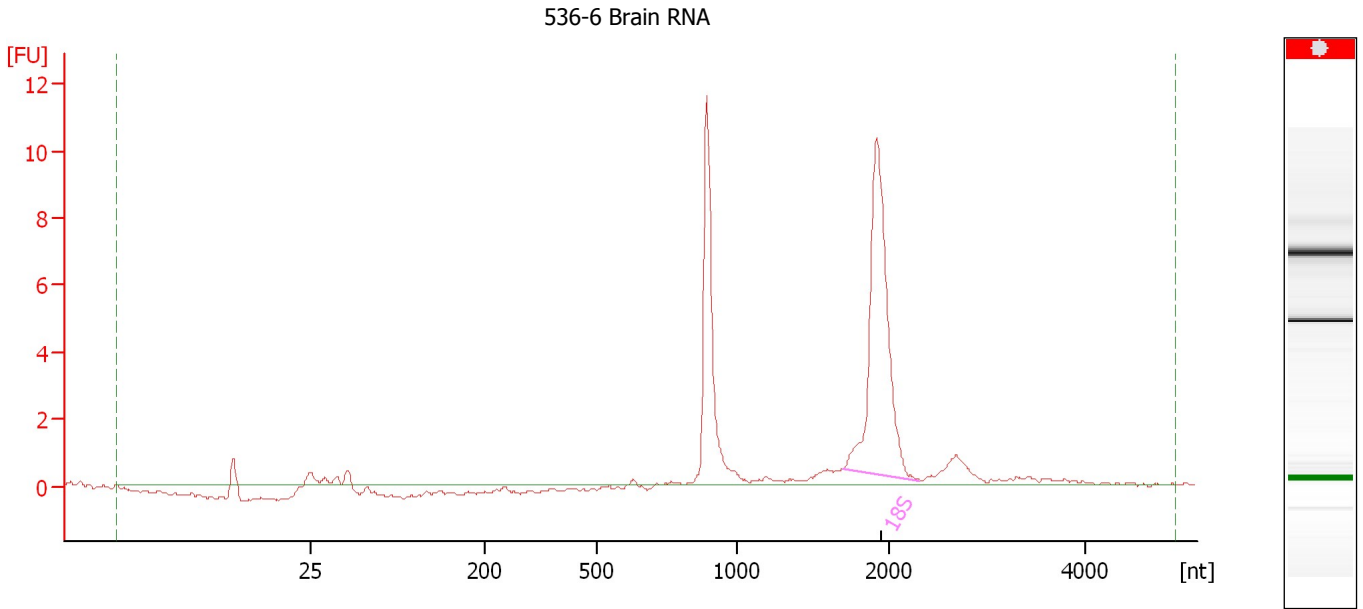
Fragment table for sample 7 : 536-5 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,681	2,040	5.9	18.6
28S	3,441	4,060	9.0	28.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 536-6 Brain RNA

RNA Area:	36.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	108 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 8 : 536-6 Brain RNA

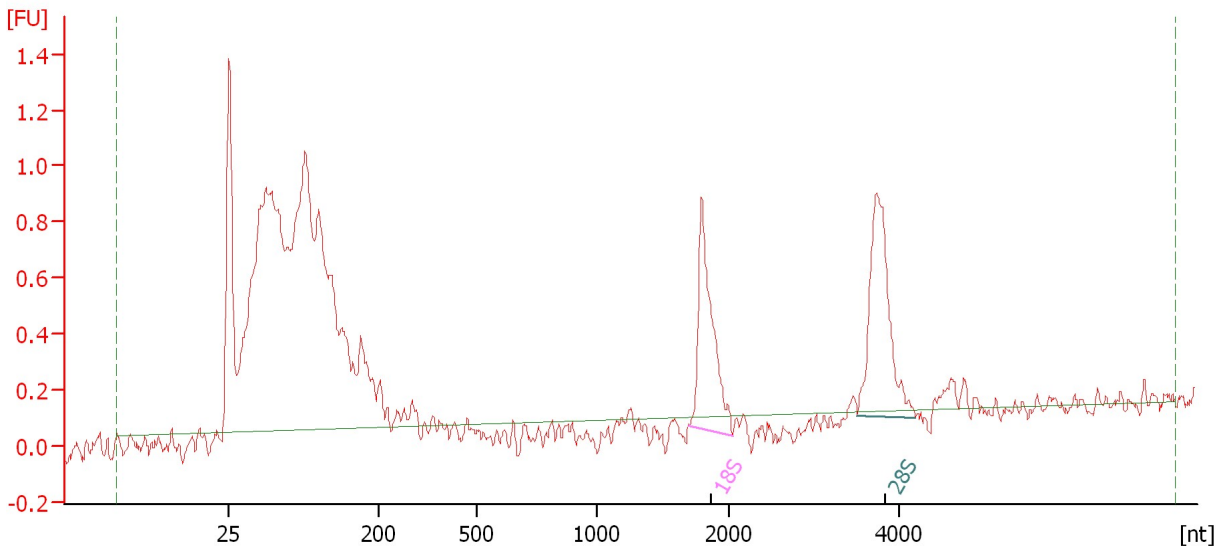
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,698	2,317	17.2	46.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
 Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...

444-3 Brain RNA



Overall Results for sample 9 : 444-3 Brain RNA

RNA Area:	16.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	48 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN N/A

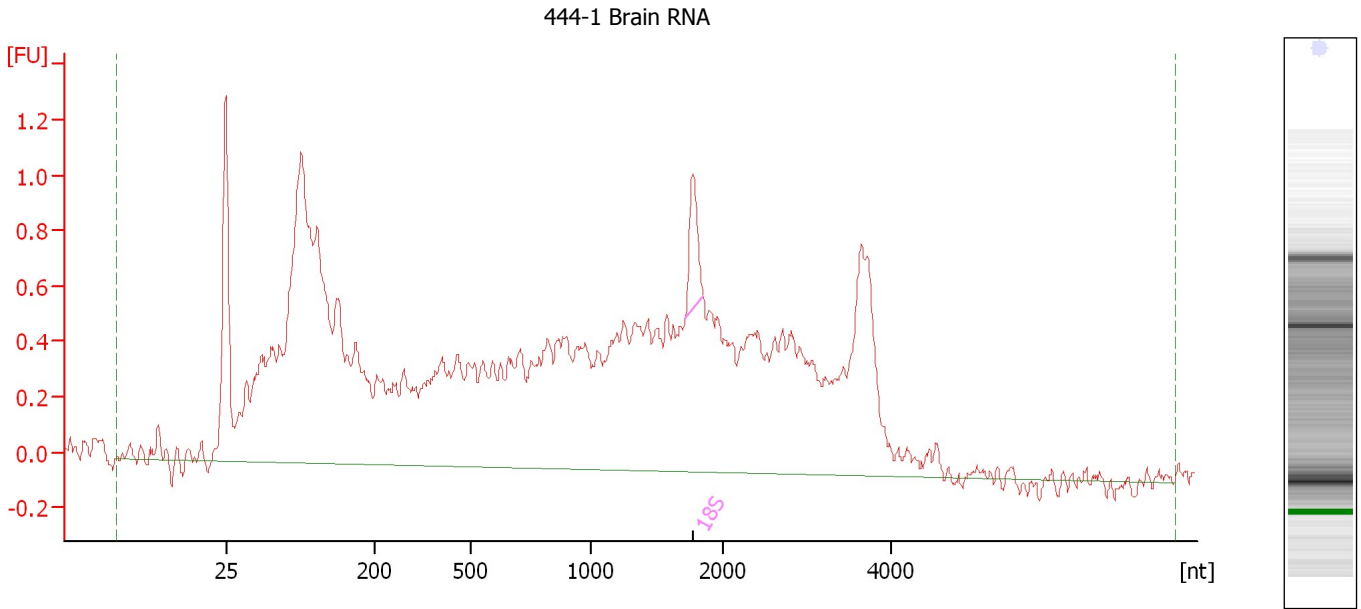
Fragment table for sample 9 : 444-3 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,048	1.3	8.0
28S	3,521	4,201	1.5	9.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 444-1 Brain RNA

RNA Area: 36.4 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 107 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.70

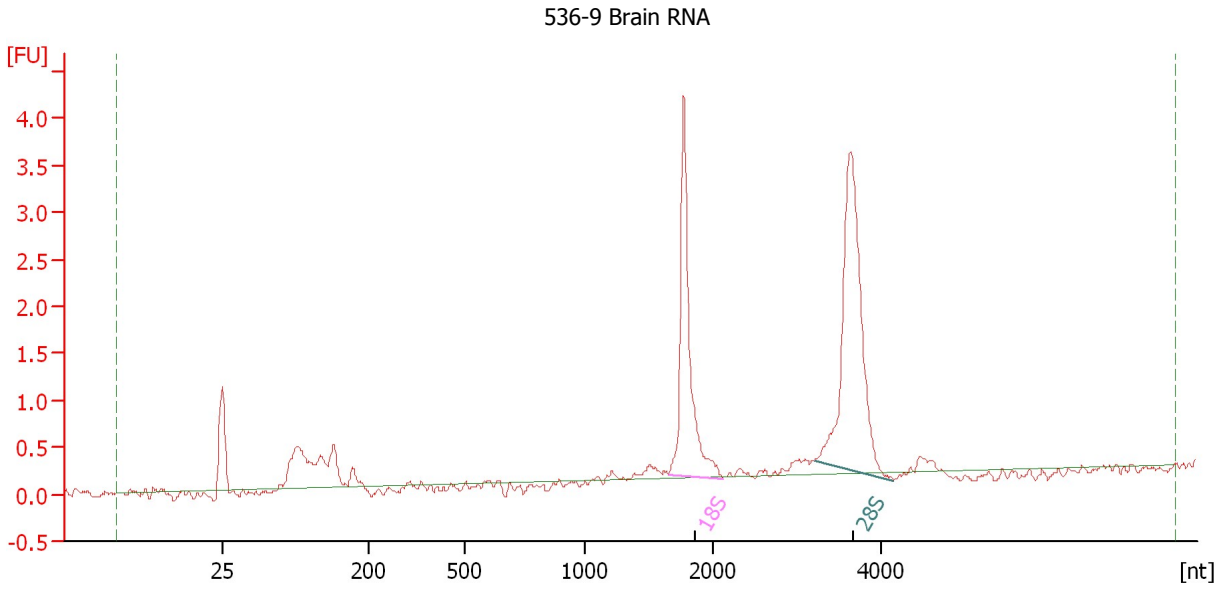
Fragment table for sample 10 : 444-1 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,718	1,857	0.4	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 536-9 Brain RNA

RNA Area: 15.4 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 45 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.40

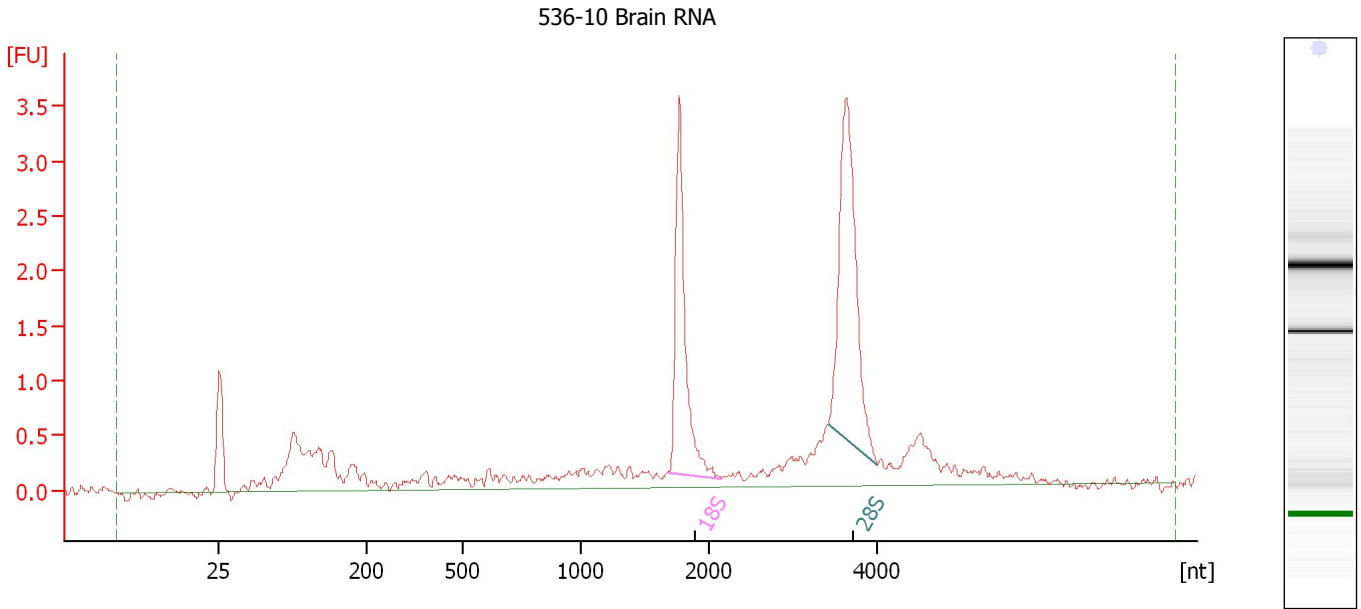
Fragment table for sample 11 : 536-9 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	2,107	4.4	28.2
28S	3,206	4,151	6.3	41.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 536-10 Brain RNA

RNA Area: 23.4 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 69 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.20

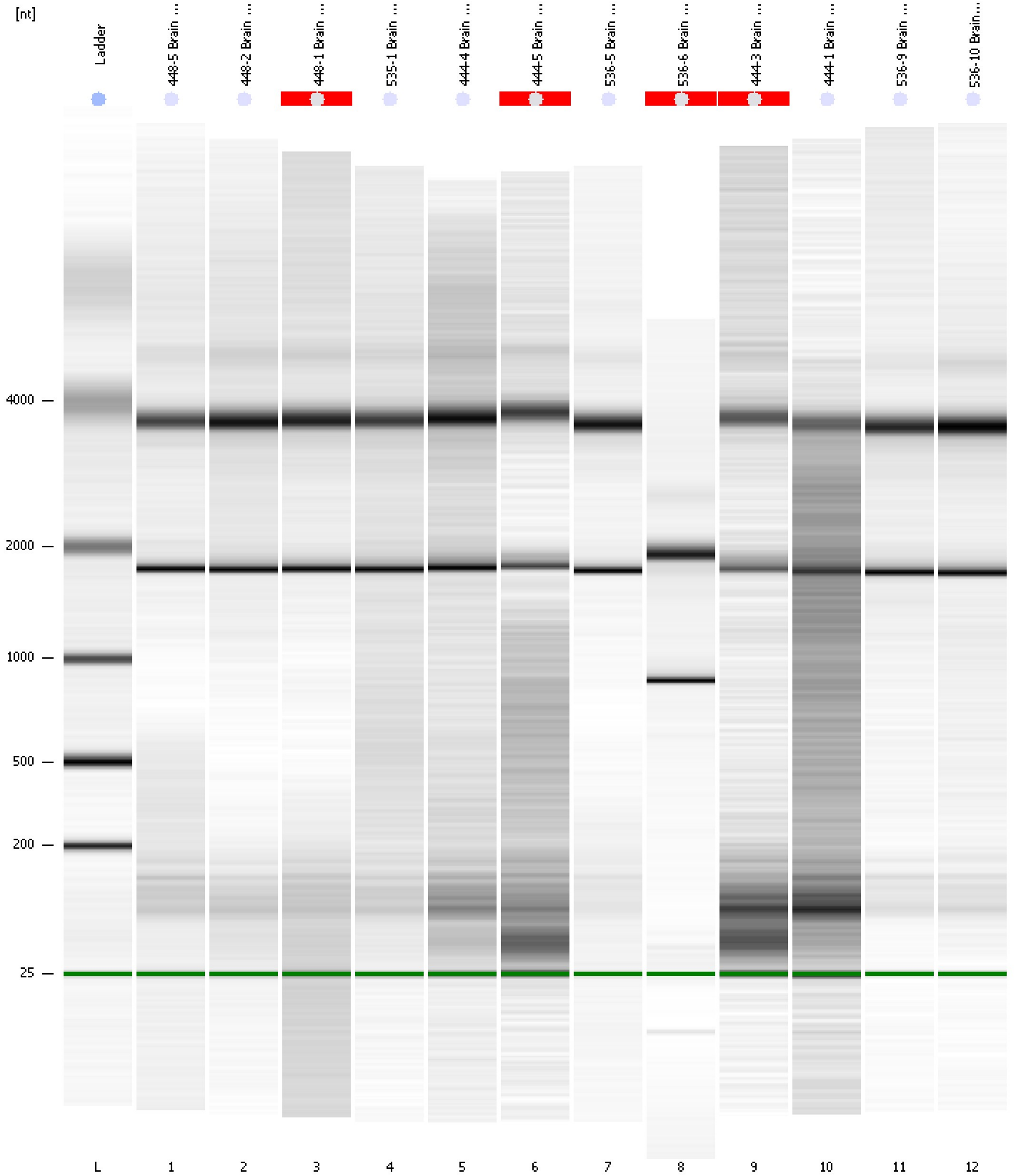
Fragment table for sample 12 : 536-10 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	2,145	3.7	15.8
28S	3,428	4,018	5.3	22.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
Modified: 12/1/2016 12:34:22 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-01\2016-12-01_002.xad

Created: 12/1/2016 12:11:08 PM
 Modified: 12/1/2016 12:34:22 PM

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 12:34:11 PM	(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_002.xad)		Instrument	Run		12/1/2016 12:11:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/1/2016 12:11:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/1/2016 12:11:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/1/2016 12:11:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/1/2016 12:11:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/1/2016 12:11:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/1/2016 12:11:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1