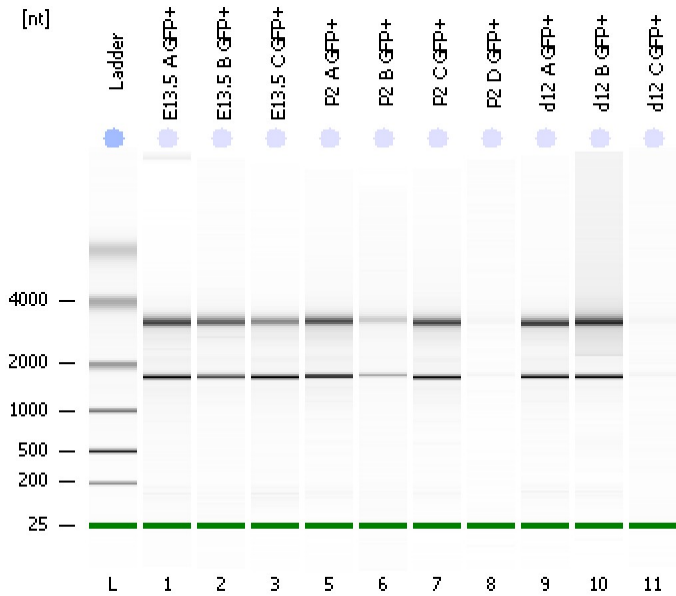


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electrophoresis File Run Summary



Instrument Information:

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

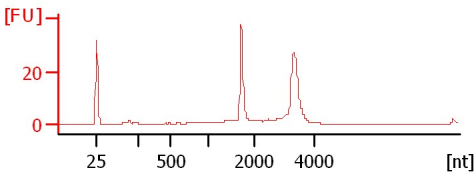
Assay Information:

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

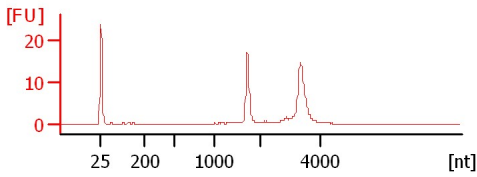
Chip Information:

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

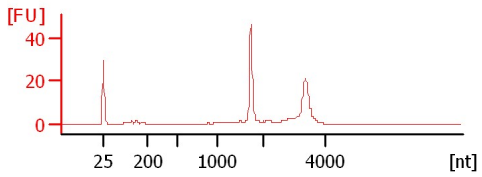
E13.5 A GFP+
 RIN: 9.60



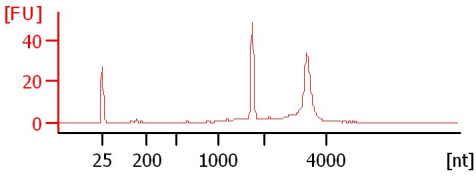
E13.5 B GFP+
 RIN: 10



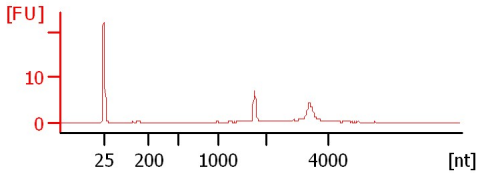
E13.5 C GFP+
 RIN: 9.40



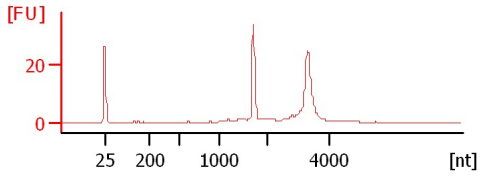
P2 A GFP+
 RIN: 9.60



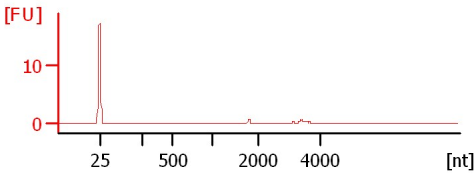
P2 B GFP+
 RIN: 9



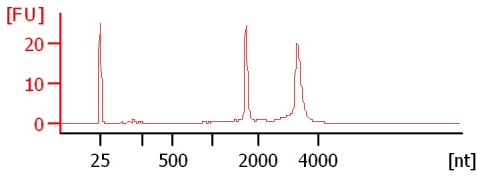
P2 C GFP+
 RIN: 9.70



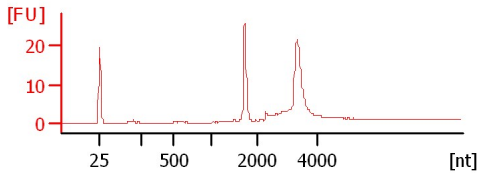
P2 D GFP+
 RIN: 6.90



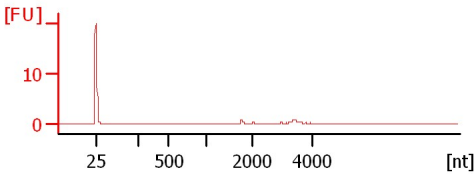
d12 A GFP+
 RIN: 9.80



d12 B GFP+
 RIN: 10



d12 C GFP+
 RIN: 6.40



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
E13.5 A GFP+		✓	RIN: 9.60	
E13.5 B GFP+		✓	RIN:10	
E13.5 C GFP+		✓	RIN: 9.40	
P2 A GFP+		✓	RIN: 9.60	
P2 B GFP+		✓	RIN:9	
P2 C GFP+		✓	RIN: 9.70	
P2 D GFP+		✓	RIN: 6.90	
d12 A GFP+		✓	RIN: 9.80	
d12 B GFP+		✓	RIN:10	
d12 C GFP+		✓	RIN: 6.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
Modified: 7/25/2019 2:24:03 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

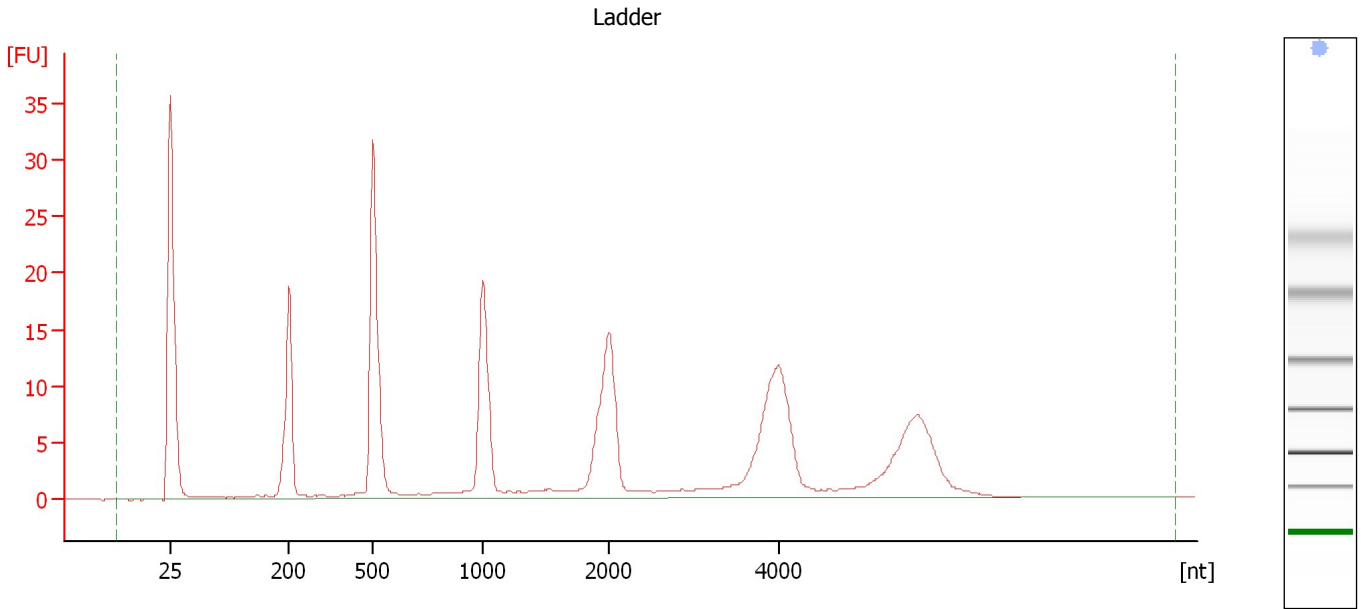
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary



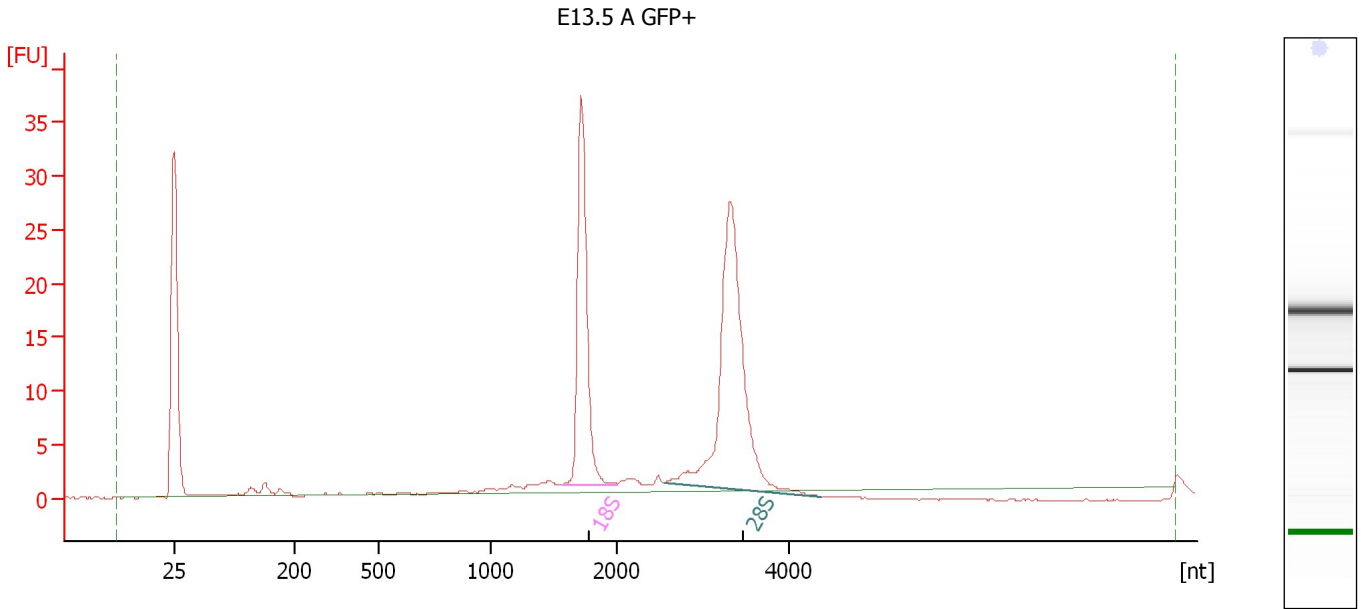
Overall Results for Ladder

RNA Area:	217.5	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : E13.5 A GFP+

RNA Area:	137.0	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	630 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.60

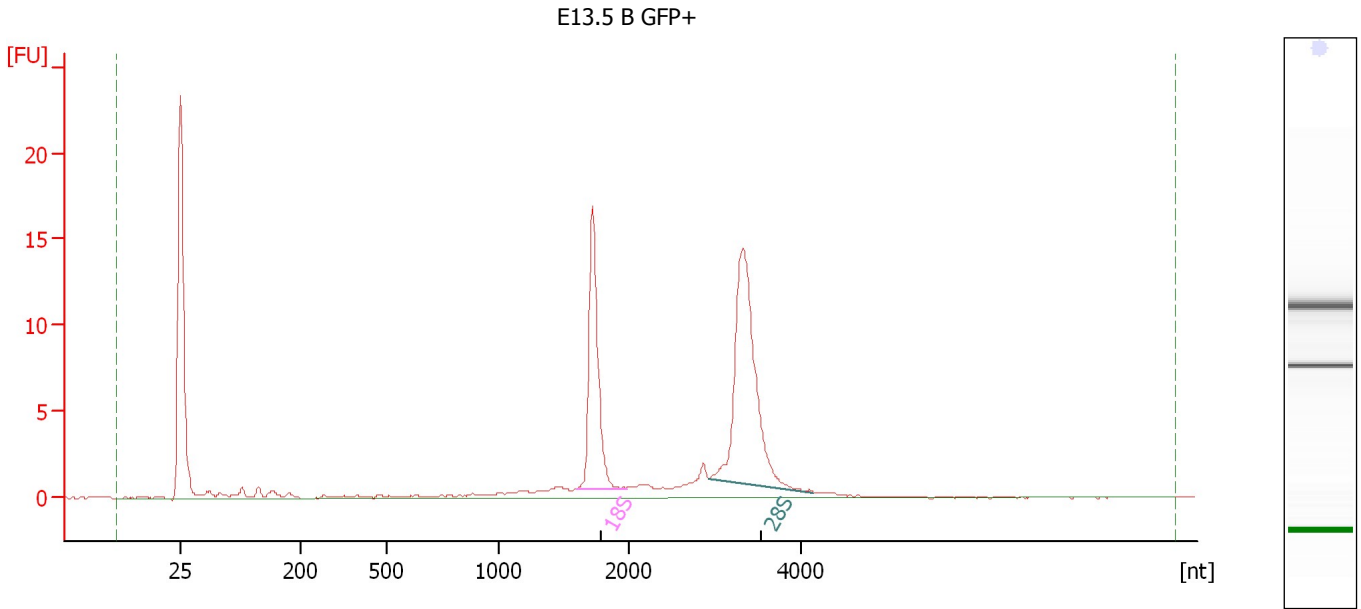
Fragment table for sample 1 : E13.5 A GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,993	42.2	30.8
28S	2,542	4,374	68.4	49.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : E13.5 B GFP+

RNA Area: 76.8 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 353 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN:10

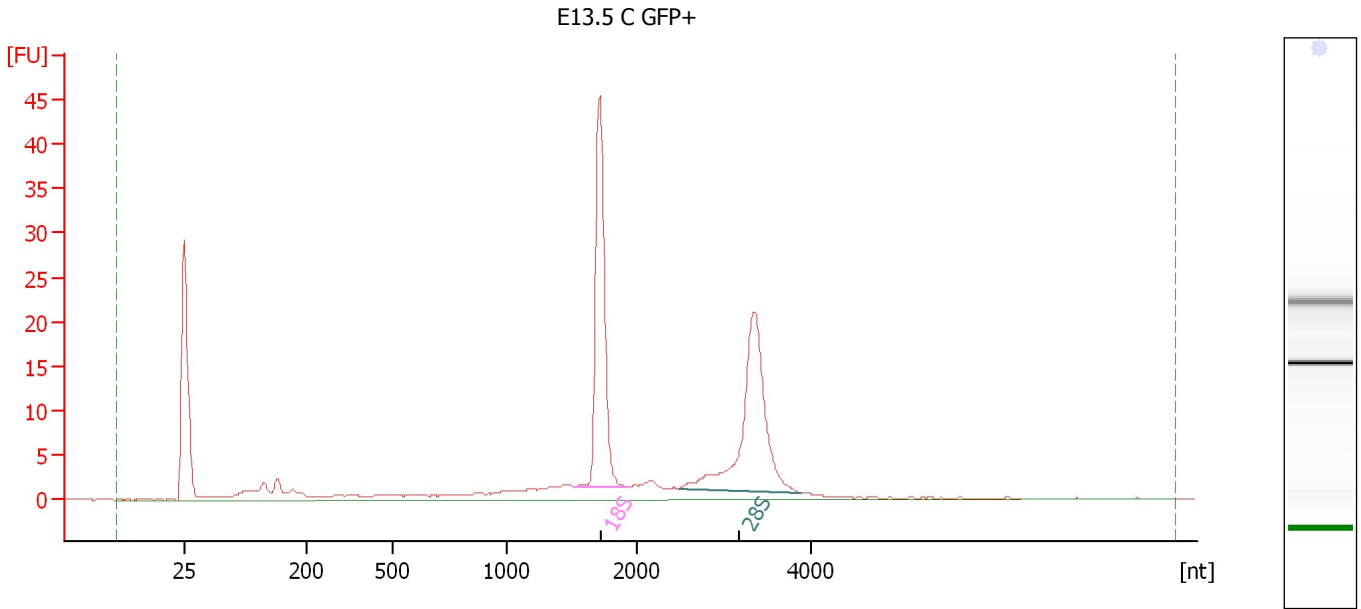
Fragment table for sample 2 : E13.5 B GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,988	19.3	25.1
28S	2,937	4,153	30.4	39.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : E13.5 C GFP+

RNA Area:	170.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	783 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 9.40

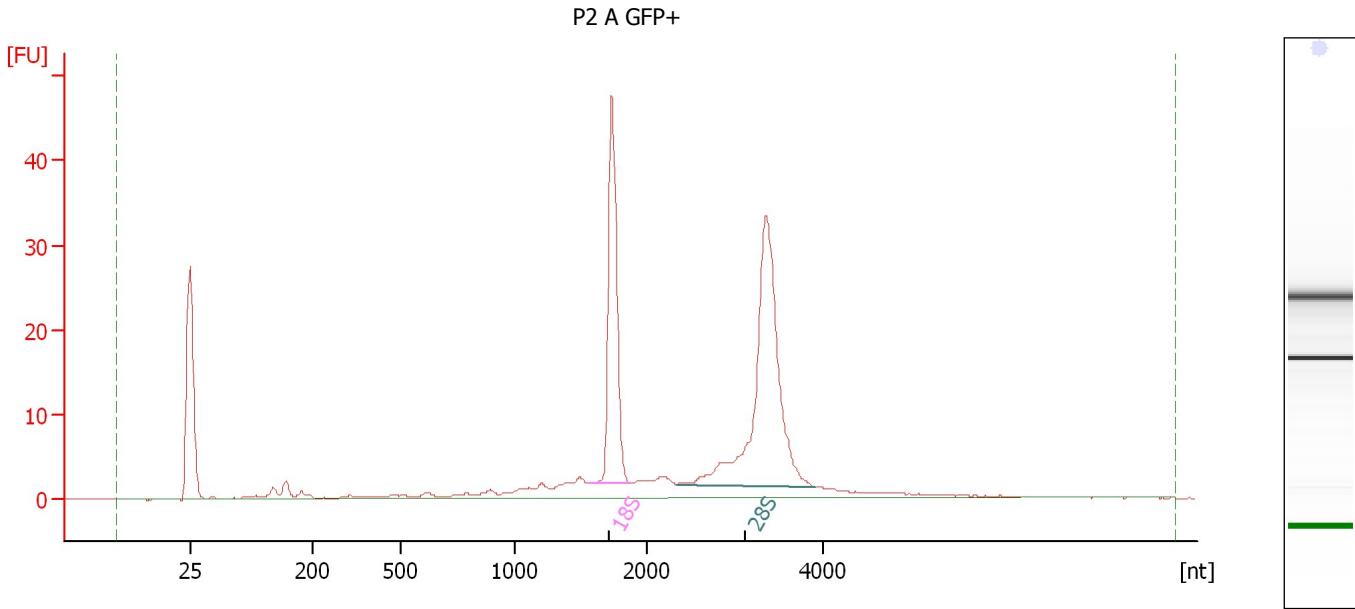
Fragment table for sample 3 : E13.5 C GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,529	1,932	48.9	28.7
28S	2,477	3,891	49.8	29.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : P2 A GFP+

RNA Area:	209.0	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	961 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.60

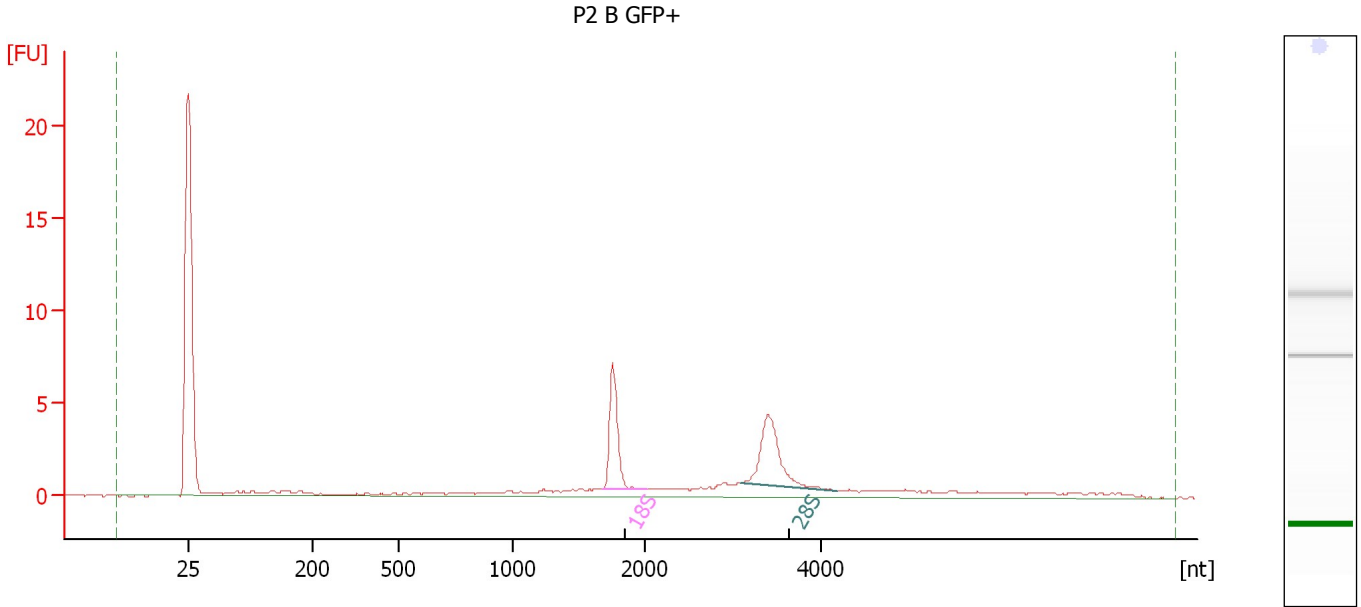
Fragment table for sample 5 : P2 A GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,553	1,879	47.4	22.7
28S	2,342	3,923	79.5	38.1

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : P2 B GFP+

RNA Area:	44.9	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	207 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN:9

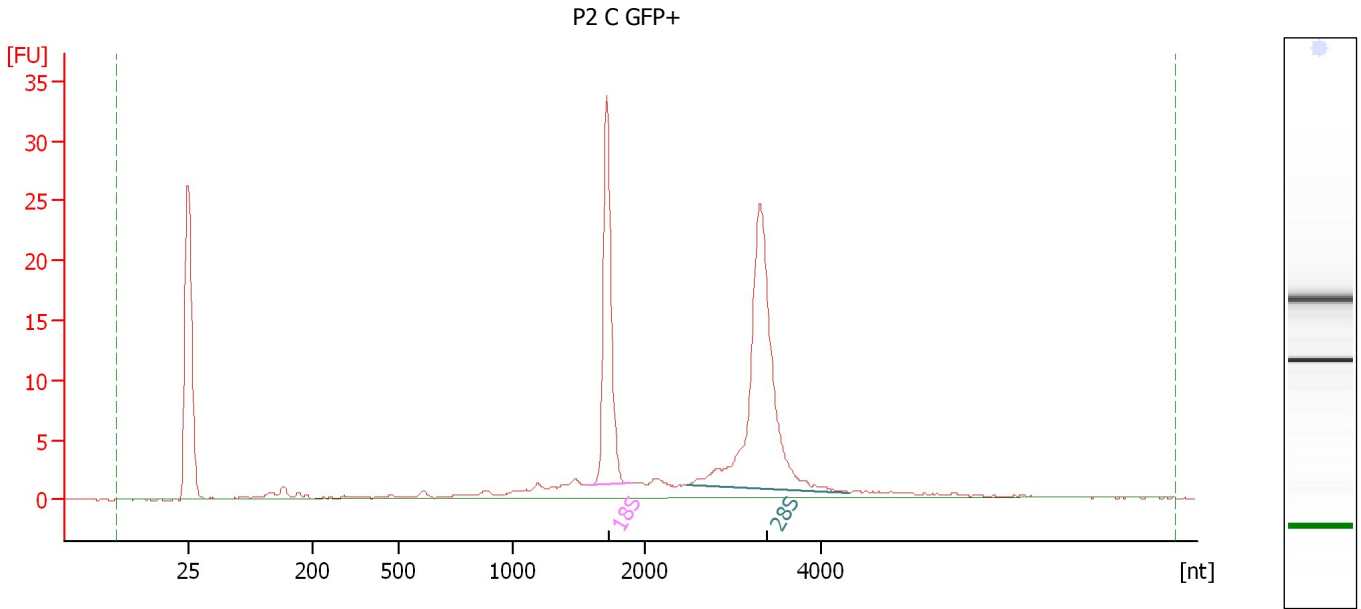
Fragment table for sample 6 : P2 B GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,682	2,025	6.7	14.9
28S	3,098	4,183	7.8	17.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : P2 C GFP+

RNA Area:	143.1	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	658 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.70

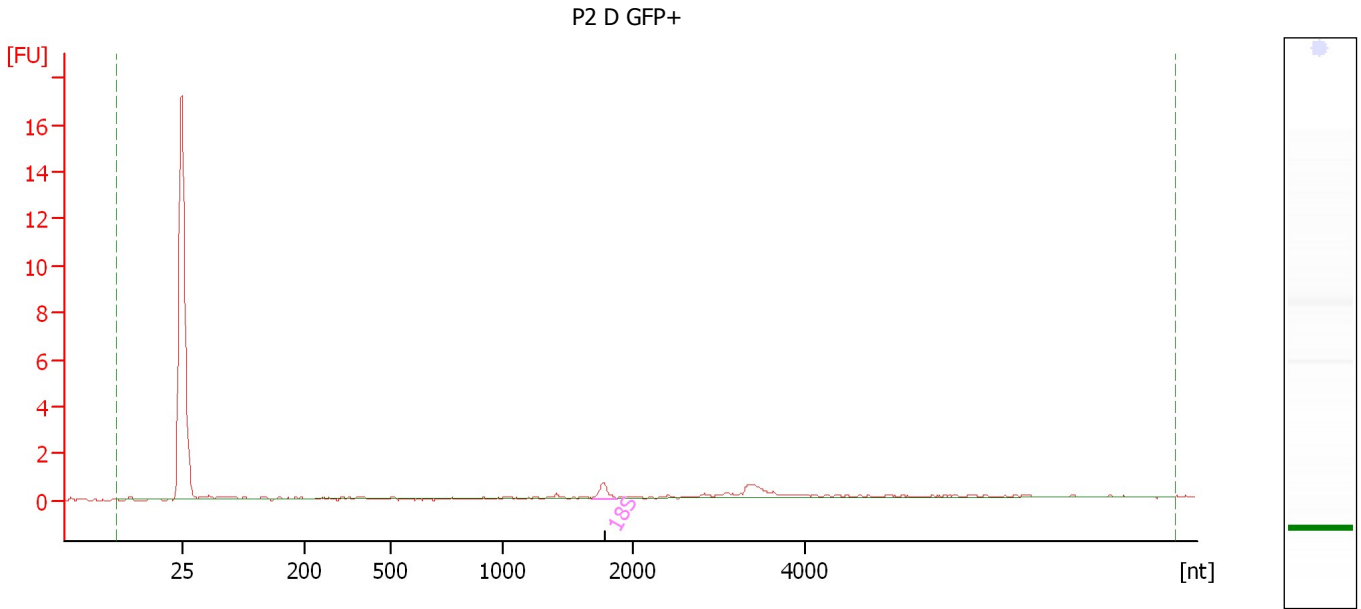
Fragment table for sample 7 : P2 C GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,894	33.8	23.6
28S	2,488	4,329	57.9	40.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : P2 D GFP+

RNA Area:	7.3	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	33 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.90

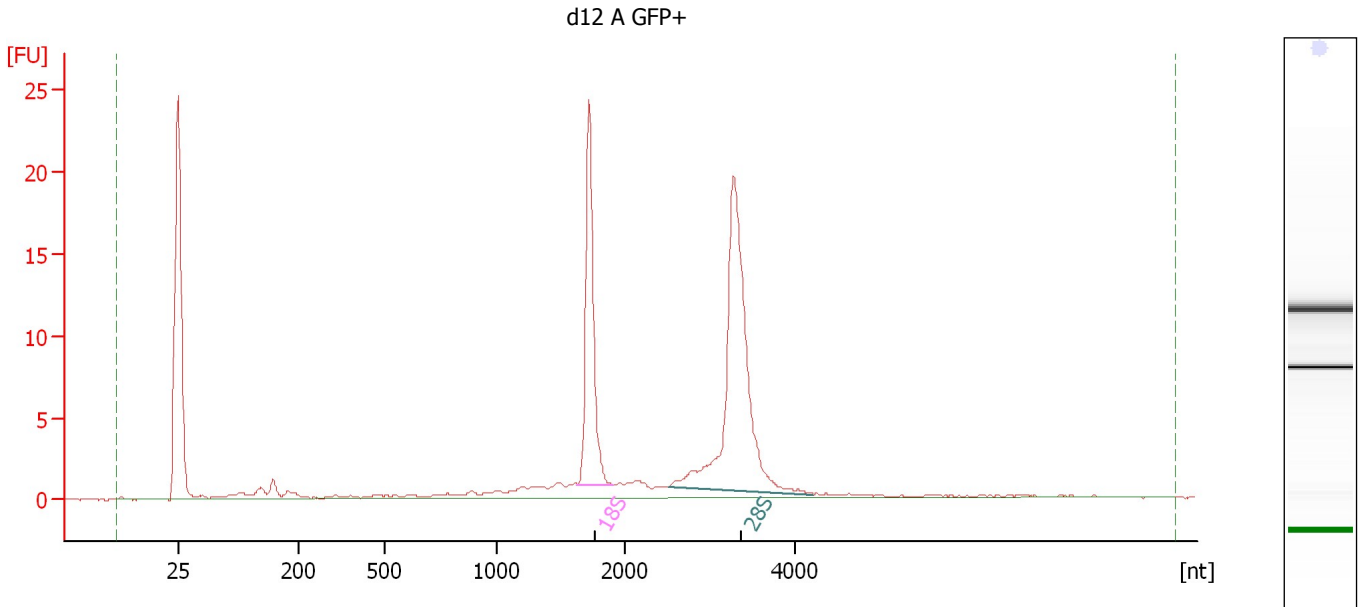
Fragment table for sample 8 : P2 D GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,691	1,873	0.7	9.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : d12 A GFP+

RNA Area:	103.8	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	477 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.80

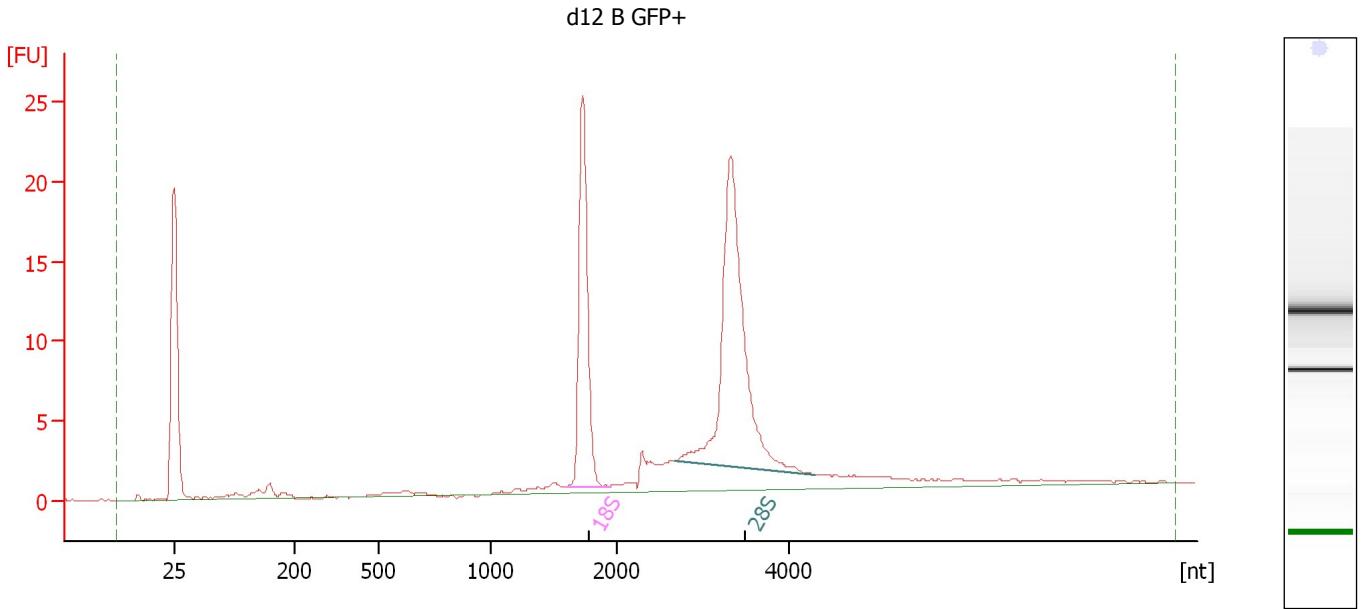
Fragment table for sample 9 : d12 A GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,920	24.0	23.1
28S	2,516	4,211	43.9	42.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : d12 B GFP+

RNA Area: 122.0 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 561 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:10

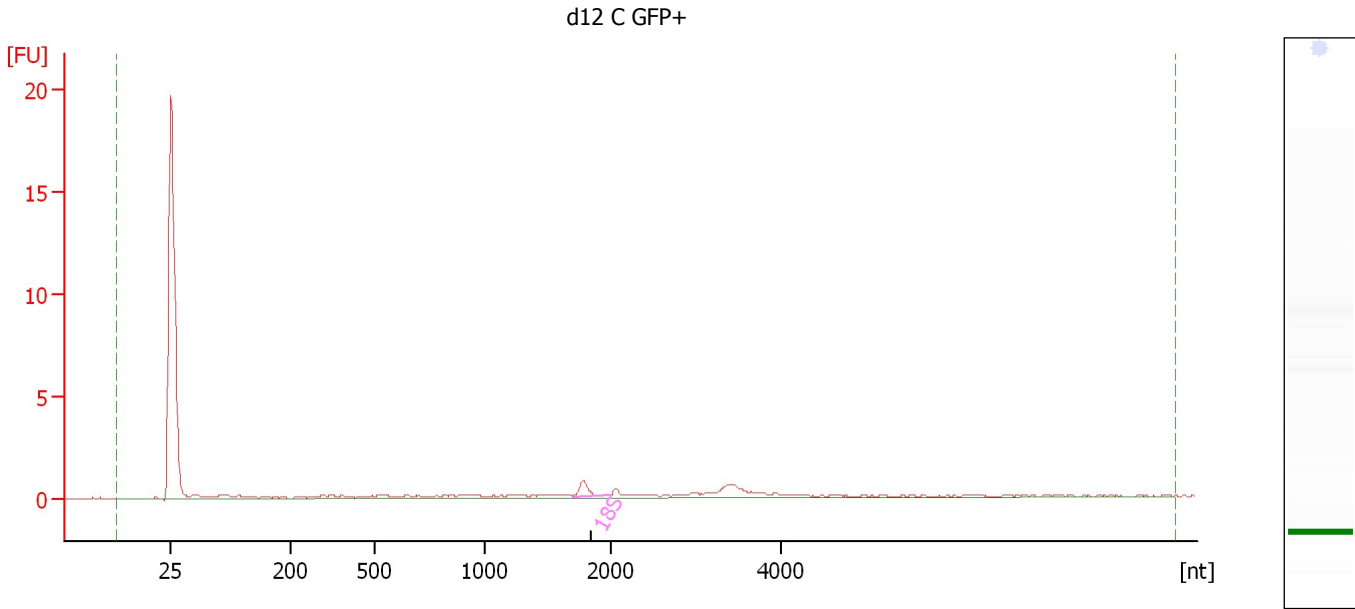
Fragment table for sample 10 : d12 B GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,943	26.4	21.6
28S	2,680	4,323	47.1	38.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : d12 C GFP+

RNA Area:	9.8	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	45 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

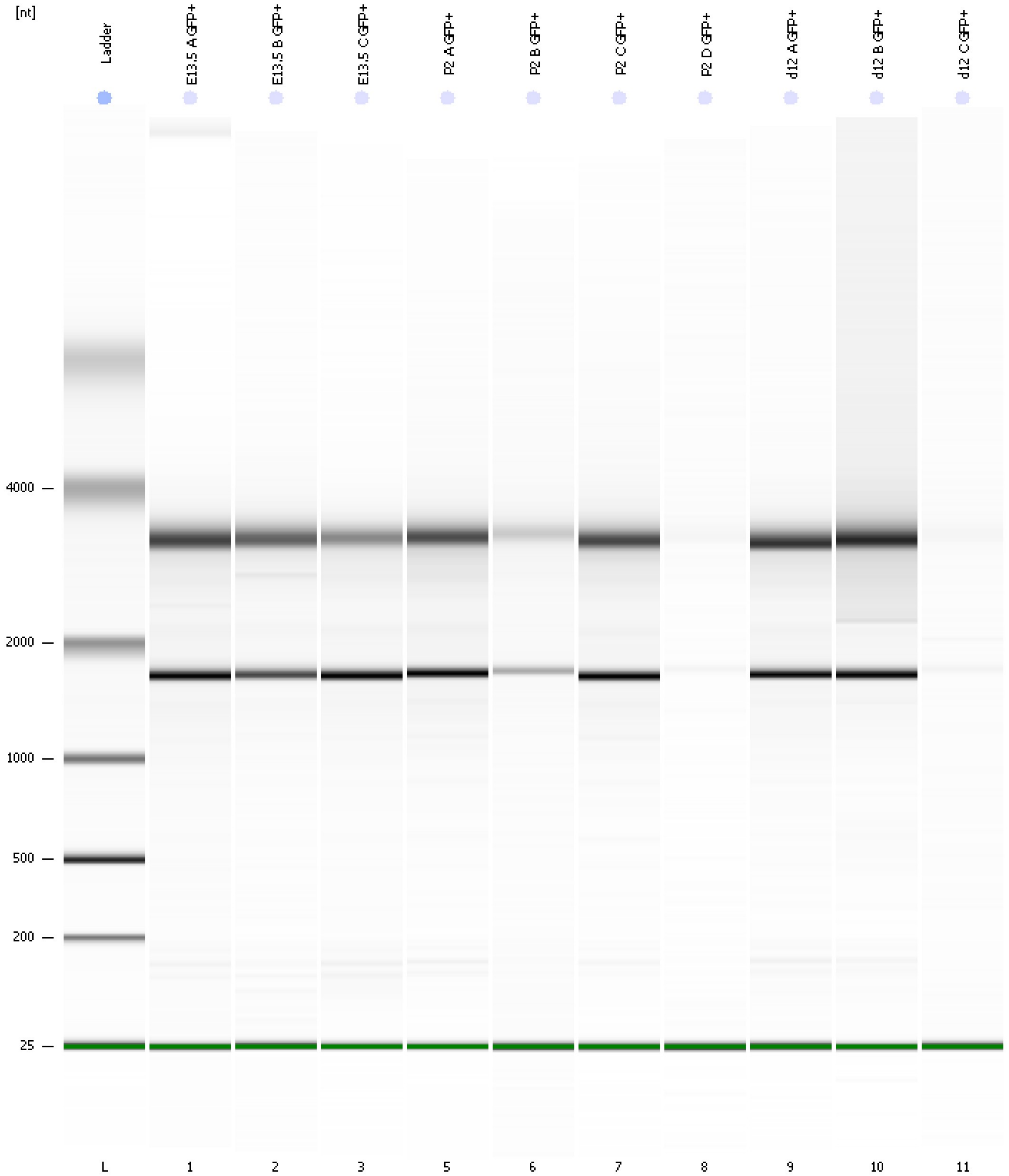
Fragment table for sample 11 : d12 C GFP+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	1,983	0.8	8.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
Modified: 7/25/2019 2:24:03 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...r\2100 expert\data\2019-07-25\2019-07-25_d13_p2_samples.xad

Created: 7/25/2019 1:54:20 PM
 Modified: 7/25/2019 2:24:03 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		7/25/2019 2:17:16 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\2019-07-25\2019-07-25_005.xad)		Instrument	Run		7/25/2019 1:54:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/25/2019 1:54:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/25/2019 1:54:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/25/2019 1:54:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/25/2019 1:54:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/25/2019 1:54:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/25/2019 1:54:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1