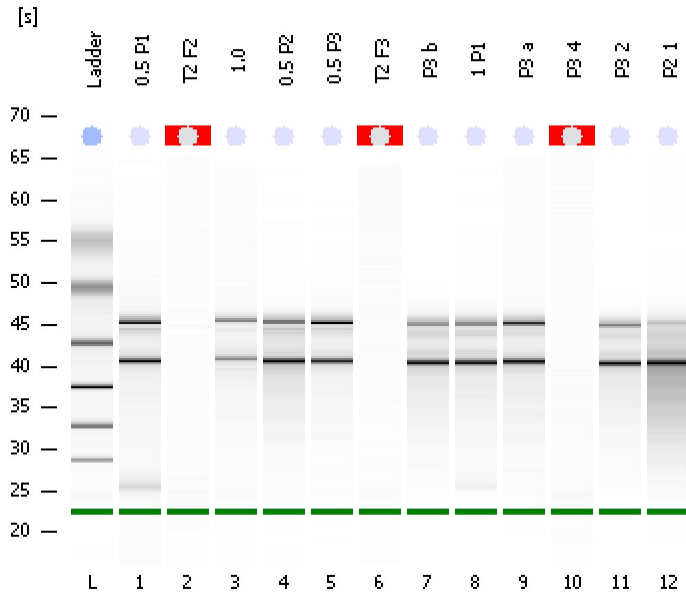


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electrophoresis File Run Summary



Instrument Information:

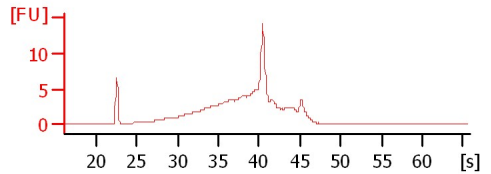
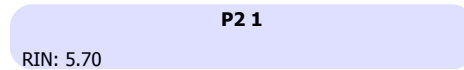
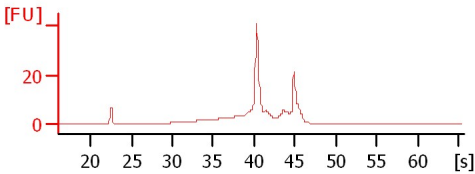
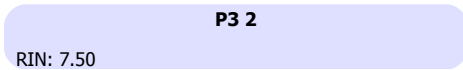
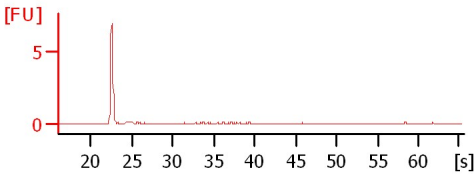
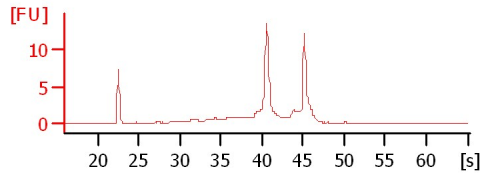
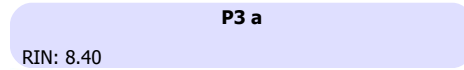
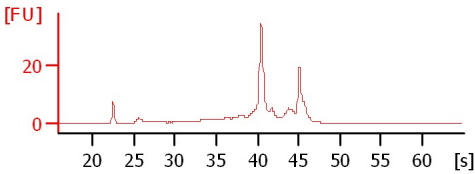
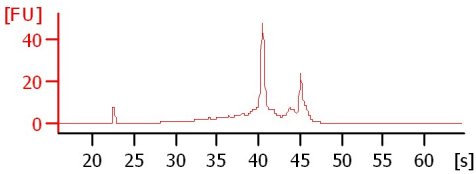
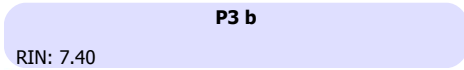
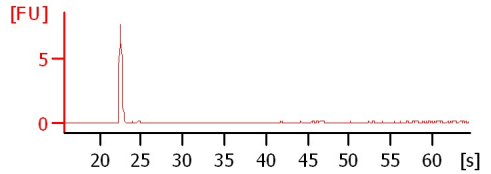
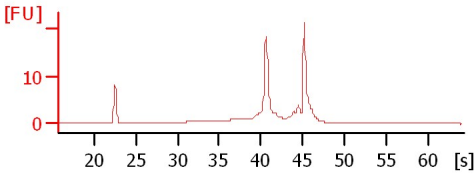
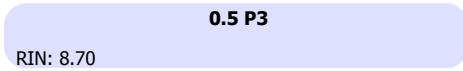
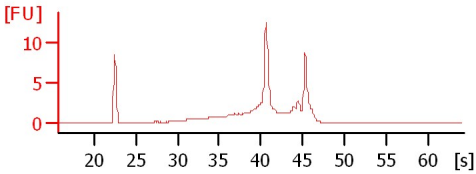
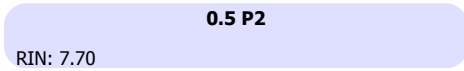
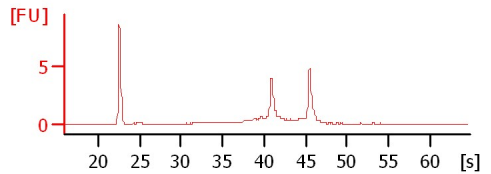
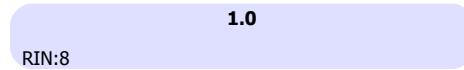
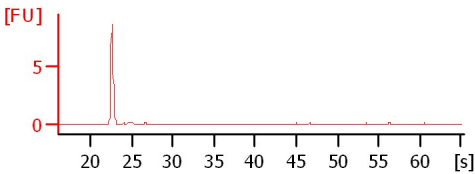
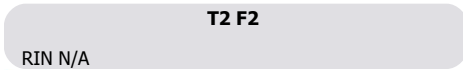
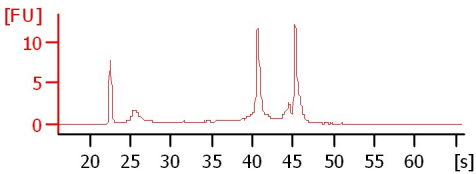
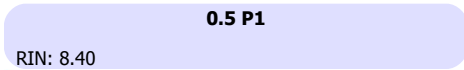
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
 Modified: 3/25/2013 10:35:21 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
0.5 P1		✓	RIN: 8.40	
T2 F2		✓	RIN N/A	
1.0		✓	RIN:8	
0.5 P2		✓	RIN: 7.70	
0.5 P3		✓	RIN: 8.70	
T2 F3		✓	RIN N/A	
P3 b		✓	RIN: 7.40	
1 P1		✓	RIN: 7.70	
P3 a		✓	RIN: 8.40	
P3 4		✓	RIN N/A	
P3 2		✓	RIN: 7.50	
P2 1		✓	RIN: 5.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 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

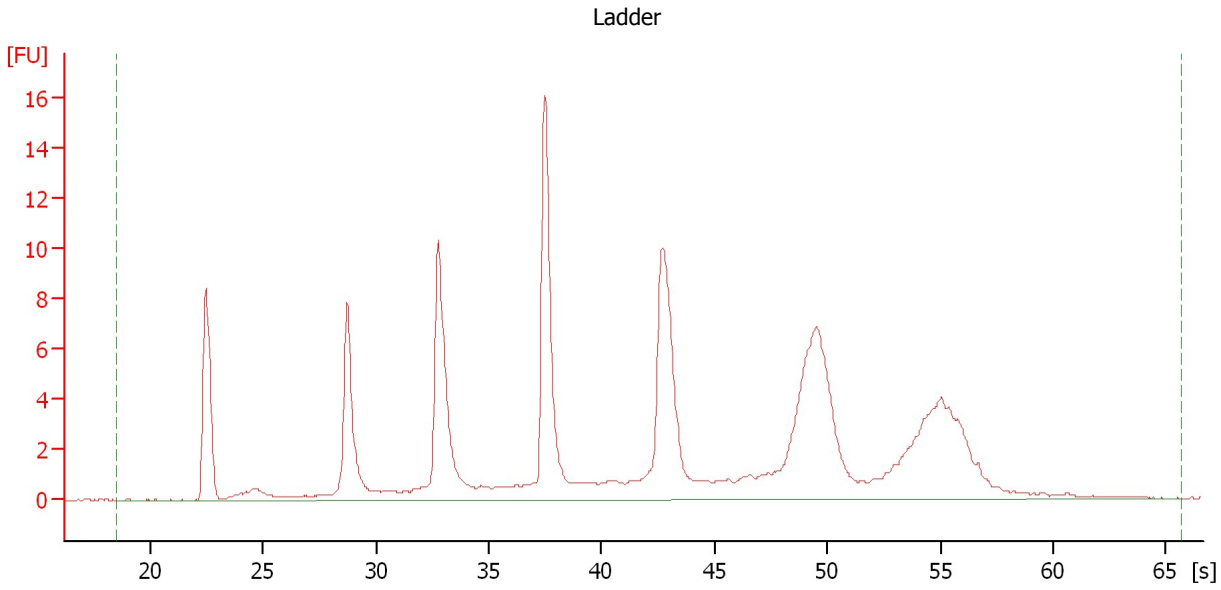
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary



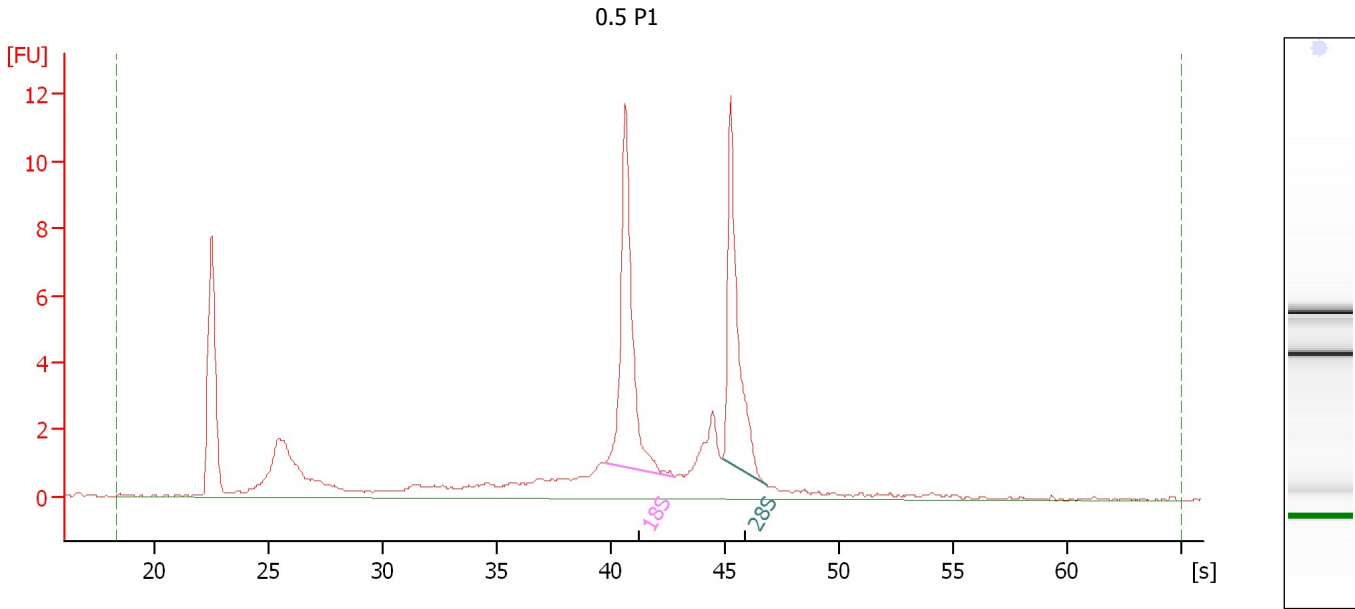
Overall Results for Ladder

RNA Area:	144.5	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 0.5 P1

RNA Area:	71.1	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	74 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 8.40

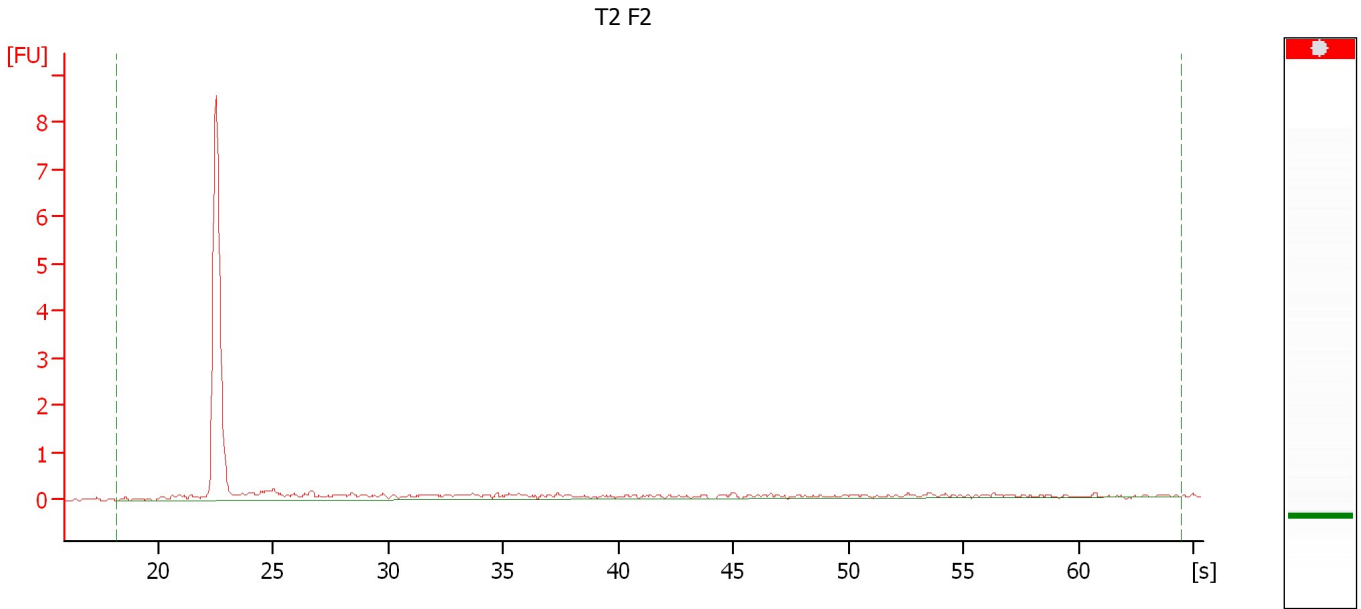
Fragment table for sample 1 : 0.5 P1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.73	42.79	14.7	20.7
28S	44.86	46.79	11.8	16.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



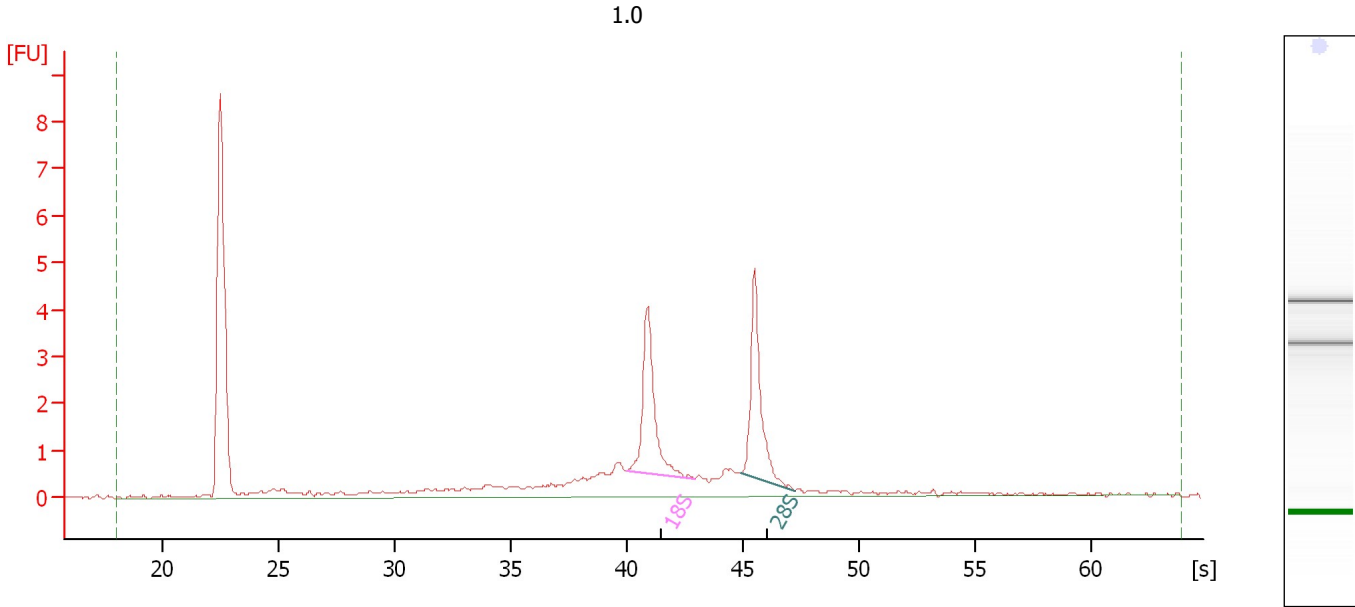
Overall Results for sample 2 : T2 F2

RNA Area:	8.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 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:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
 Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1.0

RNA Area:	28.9	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	30 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN:8

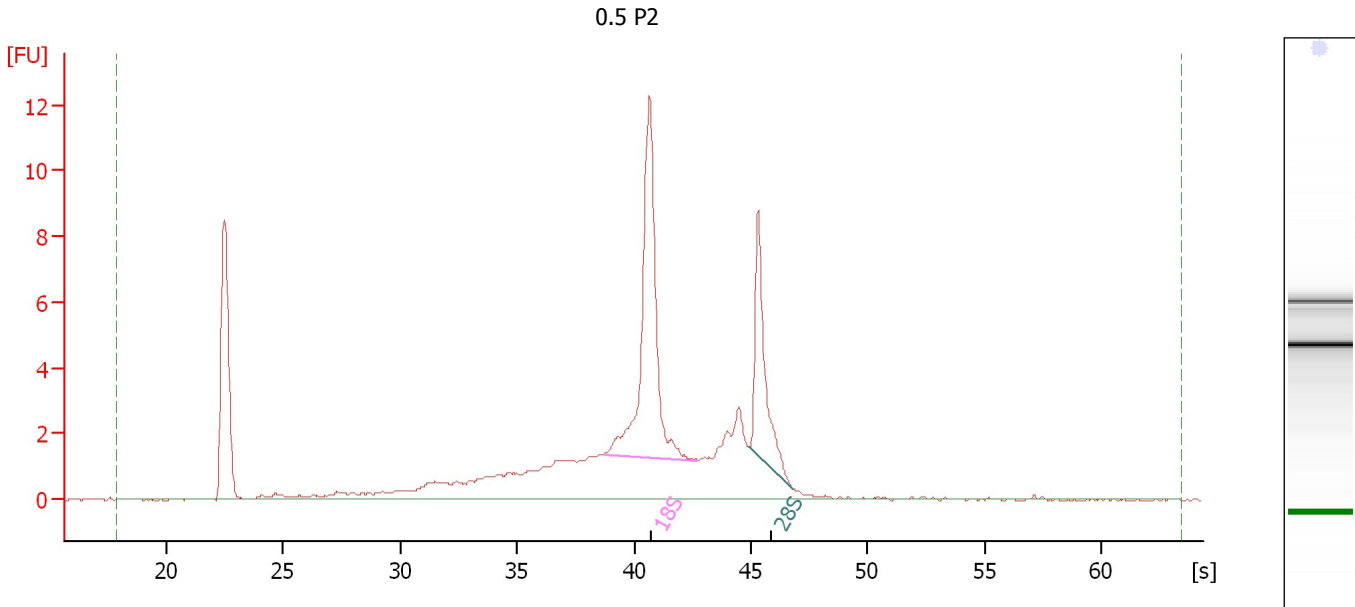
Fragment table for sample 3 : 1.0

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.05	42.92	5.0	17.3
28S	44.95	47.22	4.8	16.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
 Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 0.5 P2

RNA Area:	74.8	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	78 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 7.70

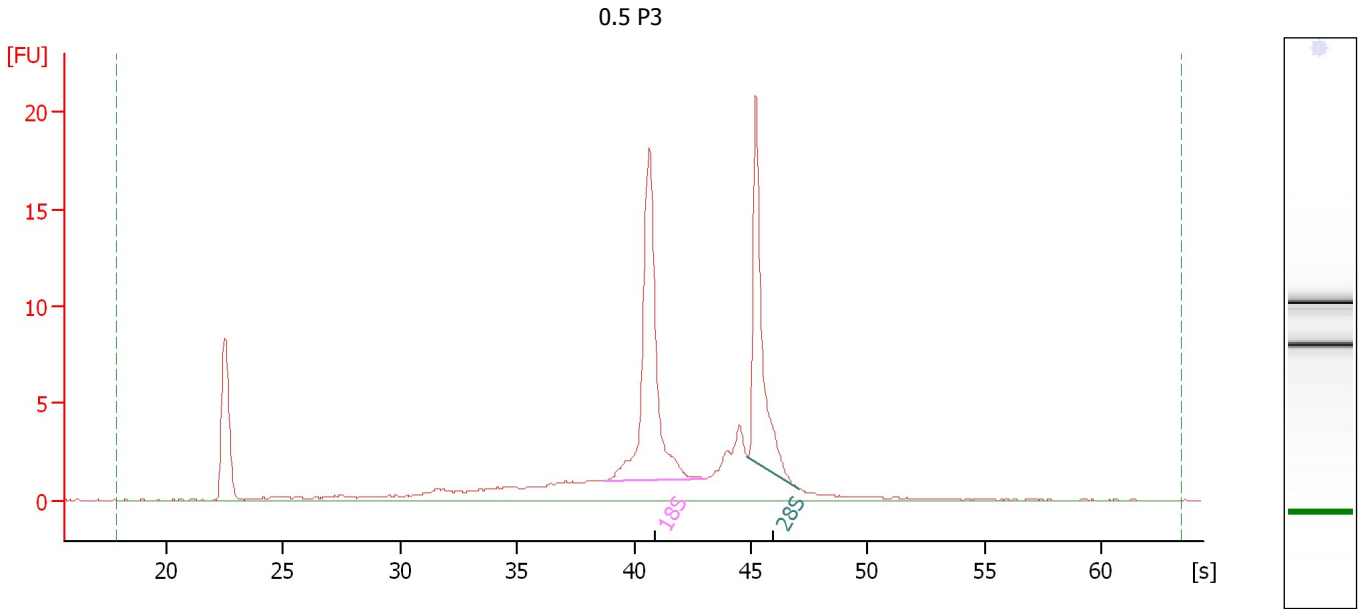
Fragment table for sample 4 : 0.5 P2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.71	42.70	18.1	24.2
28S	44.91	46.79	8.0	10.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 0.5 P3

RNA Area:	95.6	RNA Integrity Number (RIN):	8.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	99 ng/μl		
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Color:	
		Result Flagging Label:	RIN: 8.70

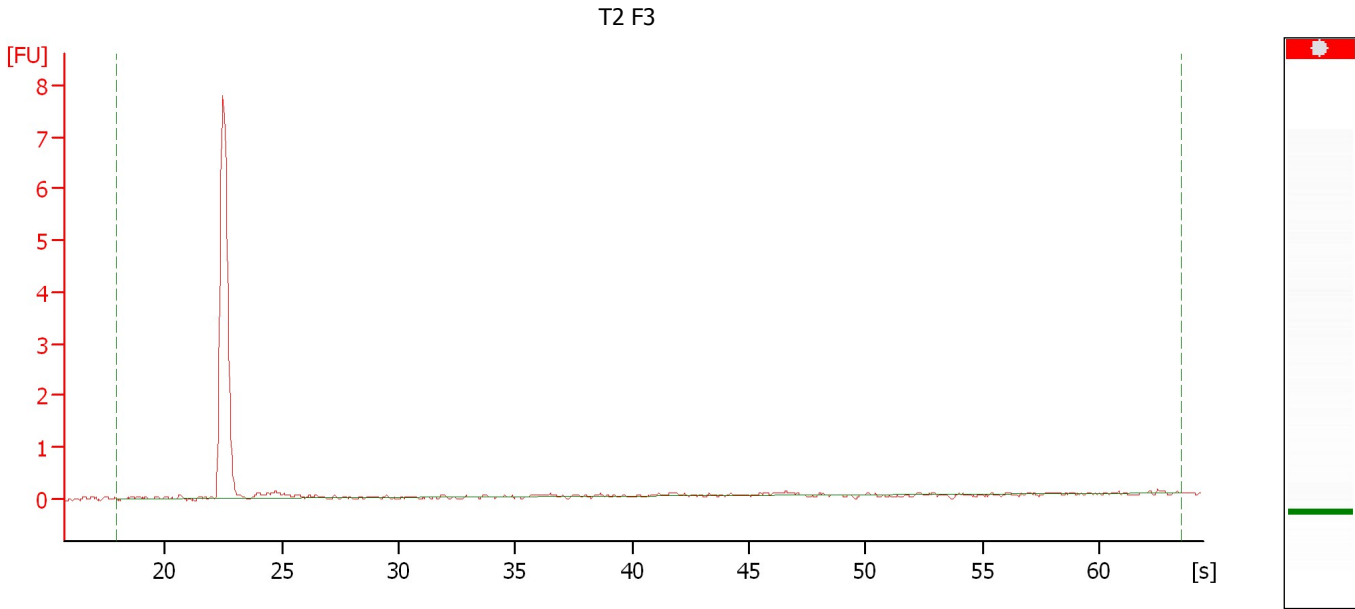
Fragment table for sample 5 : 0.5 P3

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.71	43.03	27.9	29.2
28S	44.86	47.02	18.9	19.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



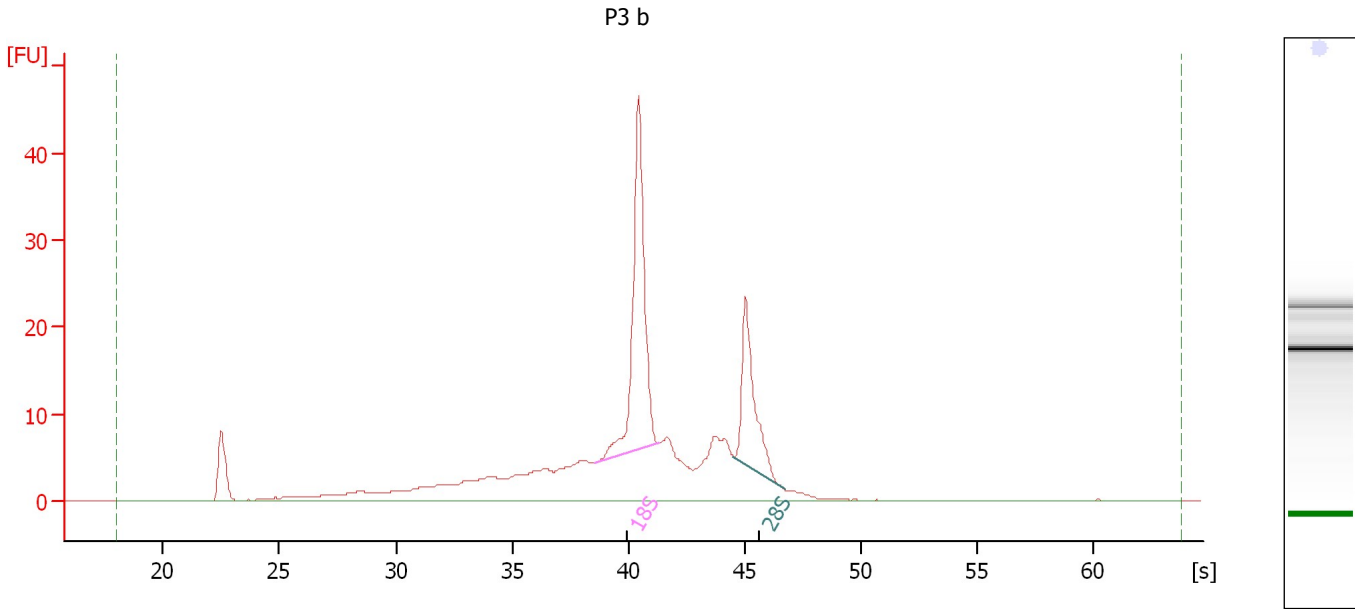
Overall Results for sample 6 : T2 F3

RNA Area:	1.0	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:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : P3 b

RNA Area:	262.1	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	272 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 7.40

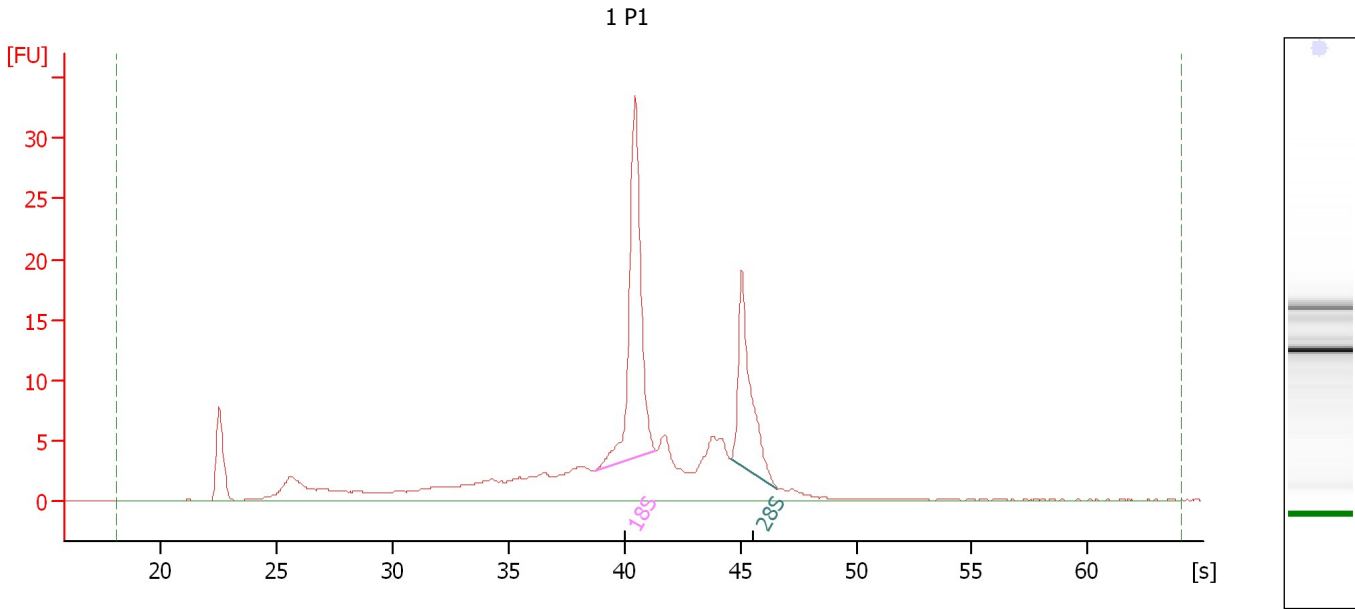
Fragment table for sample 7 : P3 b

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.53	41.35	56.5	21.6
28S	44.54	46.71	25.9	9.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
 Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1 P1

RNA Area:	186.8	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	194 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 7.70

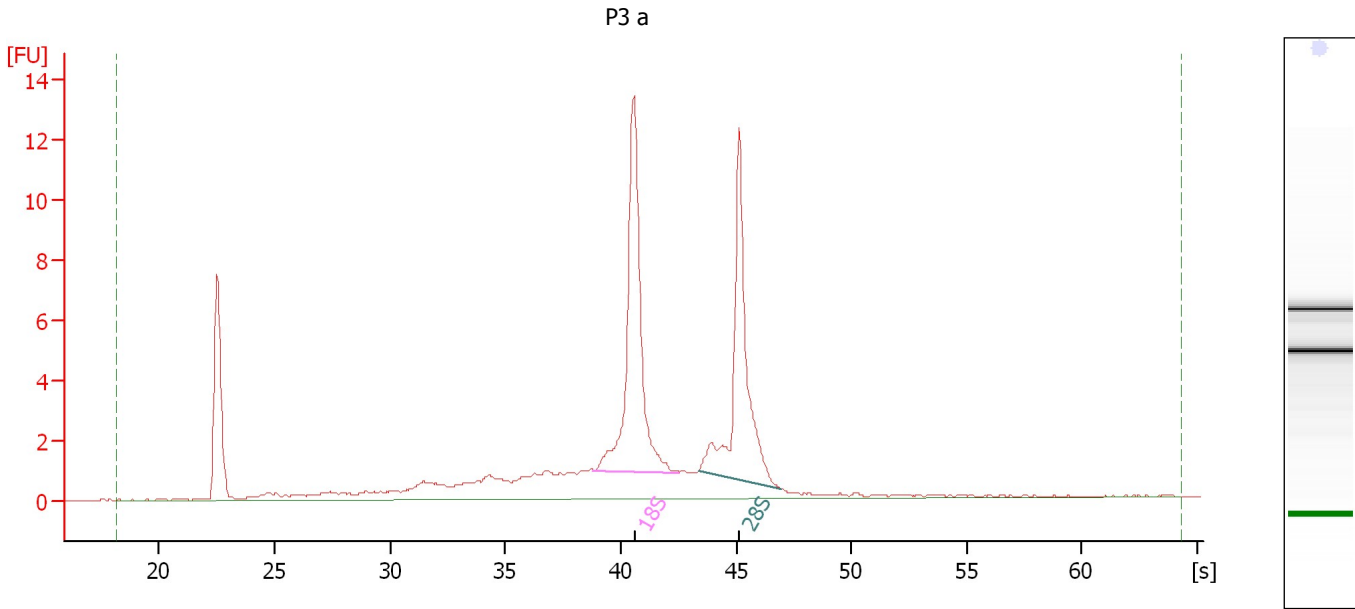
Fragment table for sample 8 : 1 P1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.74	41.34	41.8	22.4
28S	44.58	46.62	22.0	11.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
 Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : P3 a

RNA Area:	74.0	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	77 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 8.40

Fragment table for sample 9 : P3 a

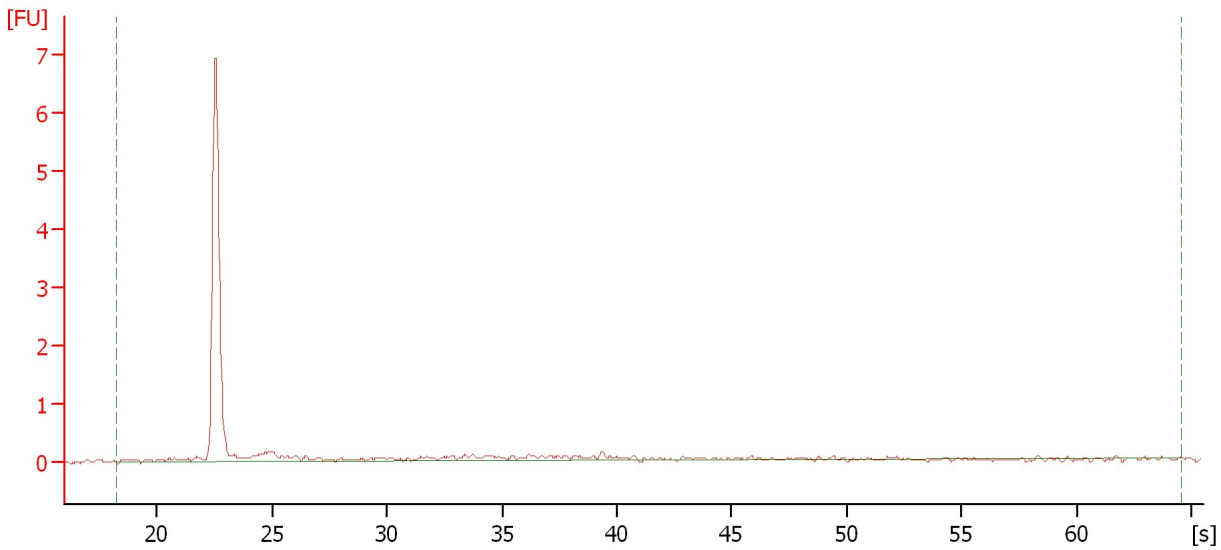
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.80	42.53	20.0	27.0
28S	43.42	46.91	16.2	21.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...

P3 4



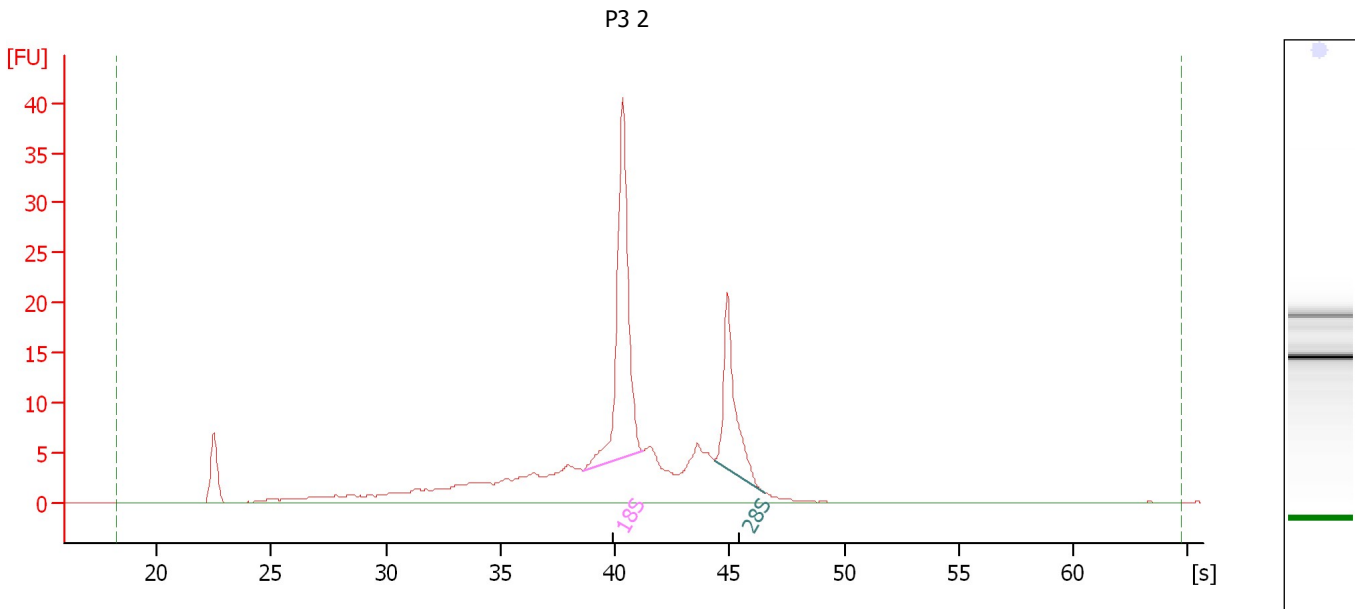
Overall Results for sample 10 : P3 4

RNA Area:	4.2	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:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
 Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : P3 2

RNA Area:	206.7	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	215 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 7.50

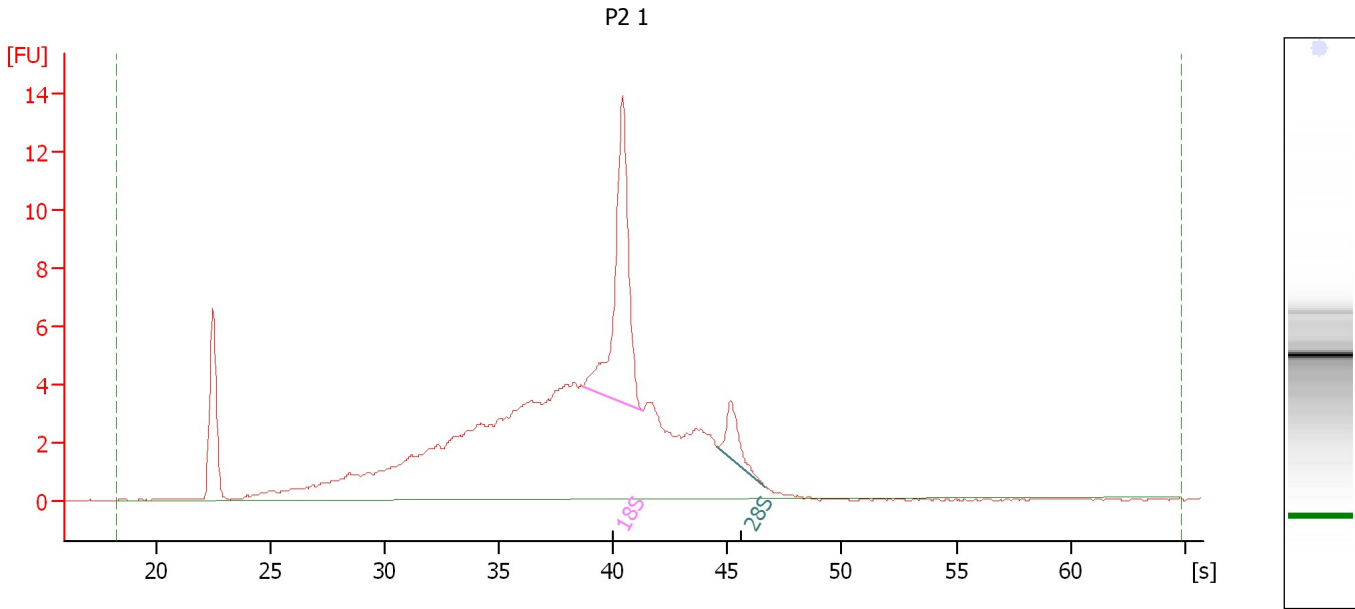
Fragment table for sample 11 : P3 2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.63	41.25	49.4	23.9
28S	44.34	46.55	22.5	10.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : P2 1

RNA Area:	143.1	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	149 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 5.70

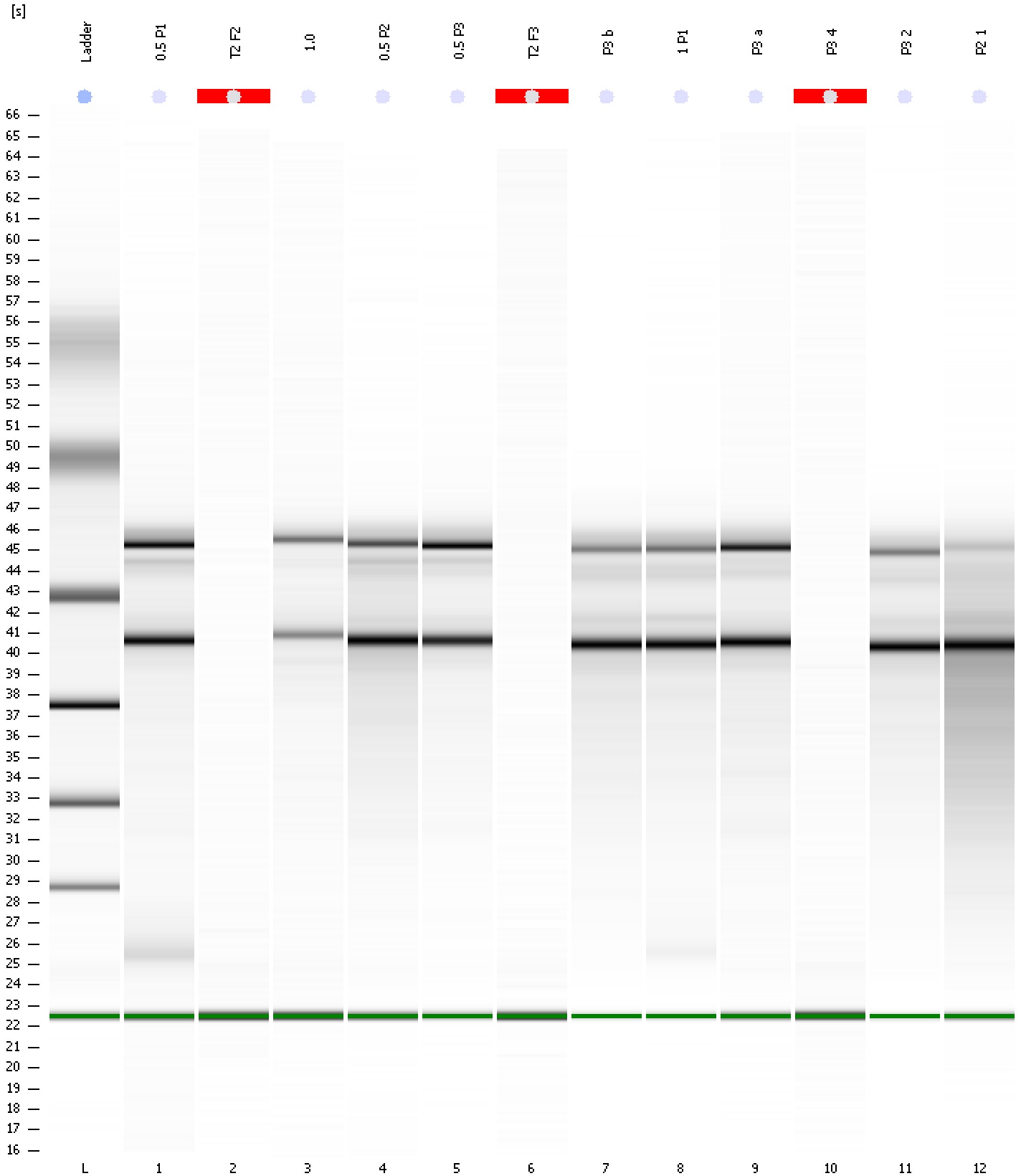
Fragment table for sample 12 : P2 1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.66	41.29	17.5	12.2
28S	44.58	46.64	2.7	1.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
Modified: 3/25/2013 10:35:21 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad

Created: 3/25/2013 9:58:58 AM
 Modified: 3/25/2013 10:35:21 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		3/25/2013 10:22:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-25\2013-03-25_001.xad)		Instrument	Run		3/25/2013 9:59:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/25/2013 9:59:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/25/2013 9:59:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/25/2013 9:59:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/25/2013 9:59:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/25/2013 9:59:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/25/2013 9:59:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1