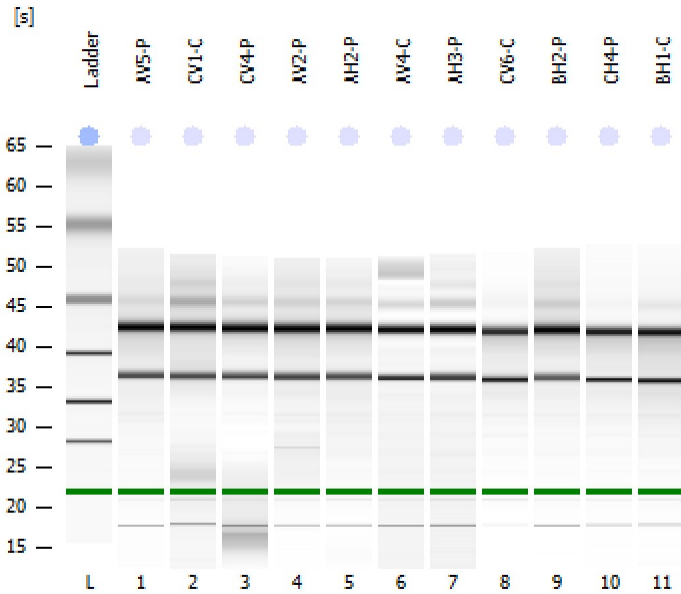


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
Modified: 12/4/2019 12:20:43 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

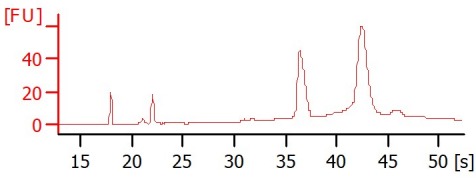
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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.

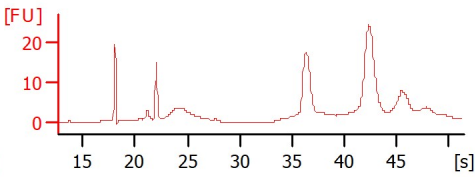
Chip Information:

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

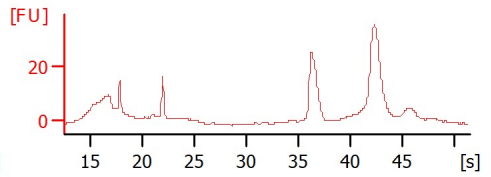
**AV5-P**  
RIN: 7.20



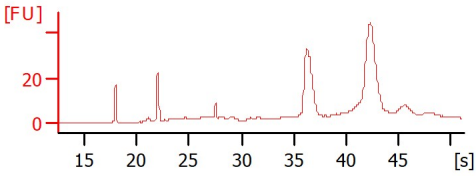
**CV1-C**  
RIN: 7.30



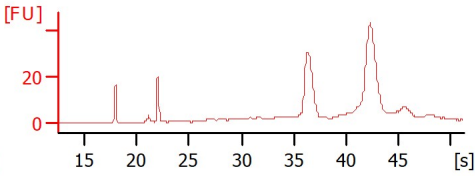
**CV4-P**  
RIN: 7.70



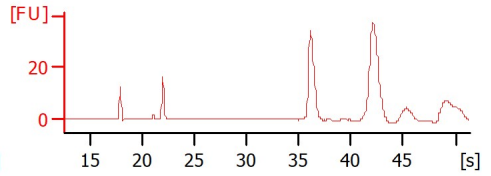
**AV2-P**  
RIN: 7.20



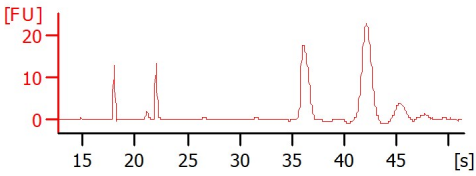
**AH2-P**  
RIN: 7.10



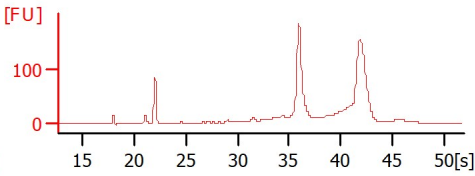
**AV4-C**  
RIN: 8.20



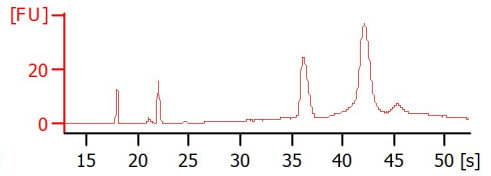
**AH3-P**  
RIN: 7.80



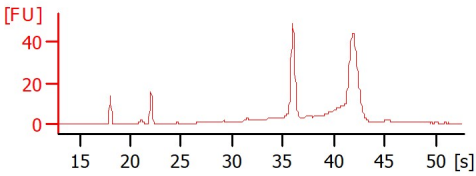
**CV6-C**  
RIN: 6.90



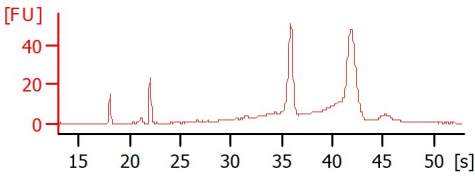
**BH2-P**  
RIN: 7.60



**CH4-P**  
RIN: 7.20



**BH1-C**  
RIN: 7.10



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
AV5-P		✓	RIN: 7.20	
CV1-C		✓	RIN: 7.30	
CV4-P		✓	RIN: 7.70	
AV2-P		✓	RIN: 7.20	
AH2-P		✓	RIN: 7.10	
AV4-C		✓	RIN: 8.20	
AH3-P		✓	RIN: 7.80	
CV6-C		✓	RIN: 6.90	
BH2-P		✓	RIN: 7.60	
CH4-P		✓	RIN: 7.20	
BH1-C		✓	RIN: 7.10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 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

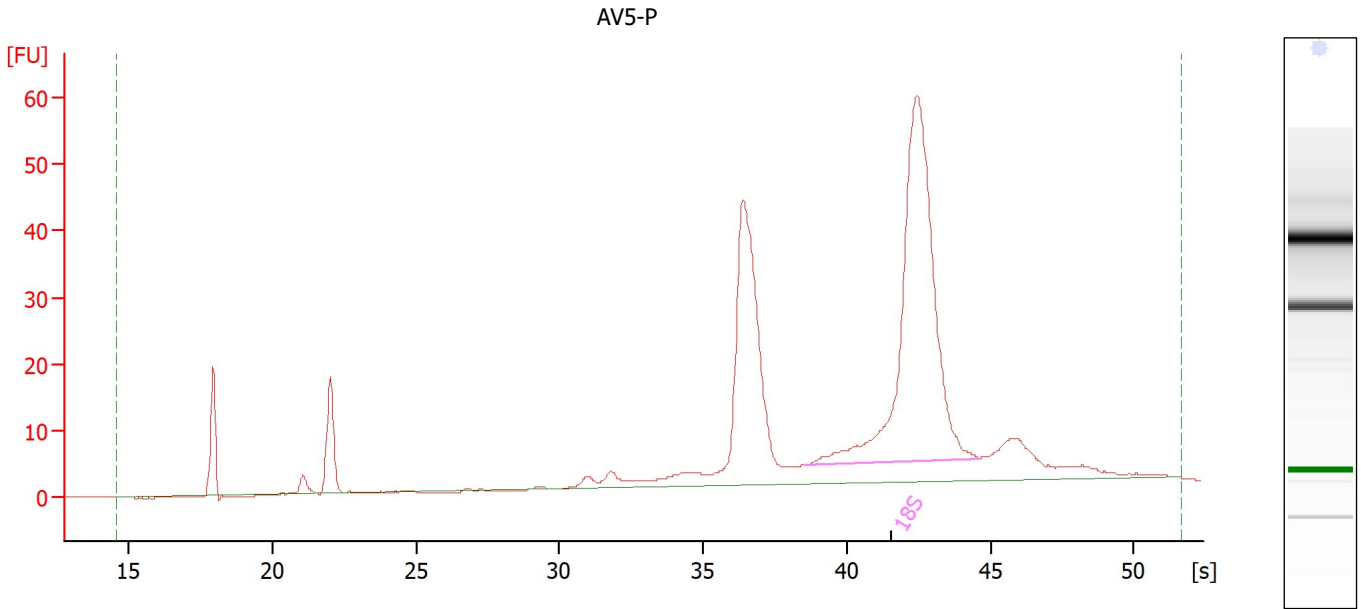
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary**



**Overall Results for sample 1 : AV5-P**

RNA Area:	405.9	RNA Integrity Number (RIN):	7.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	3,044 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.20

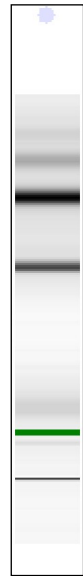
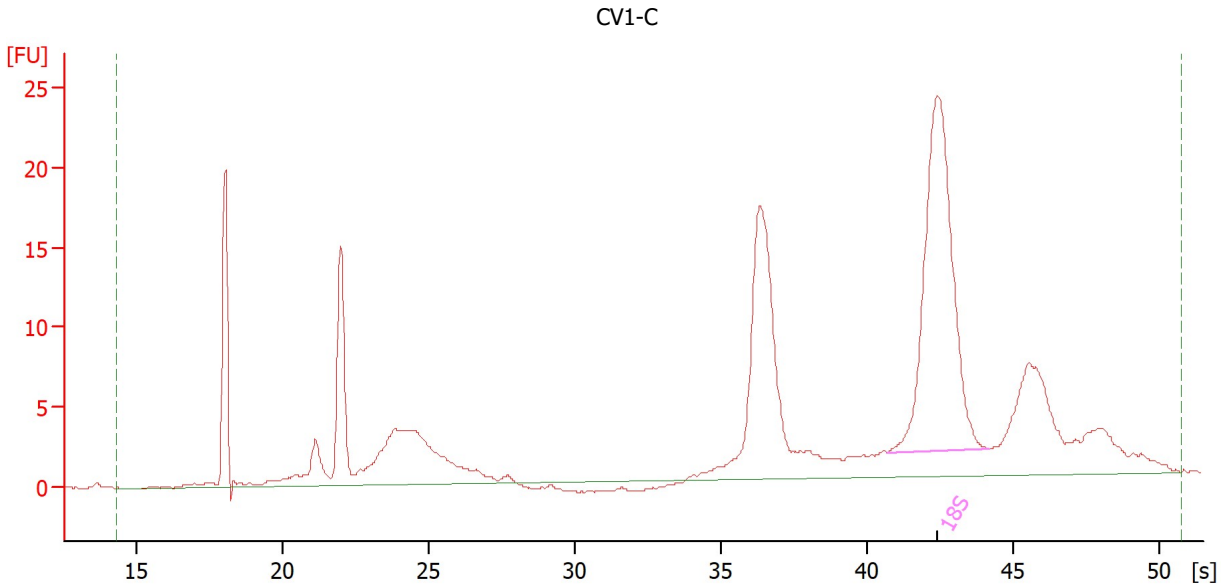
**Fragment table for sample 1 : AV5-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.54	44.60	165.2	40.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : CV1-C**

RNA Area:	226.5	RNA Integrity Number (RIN):	7.3 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,699 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.30

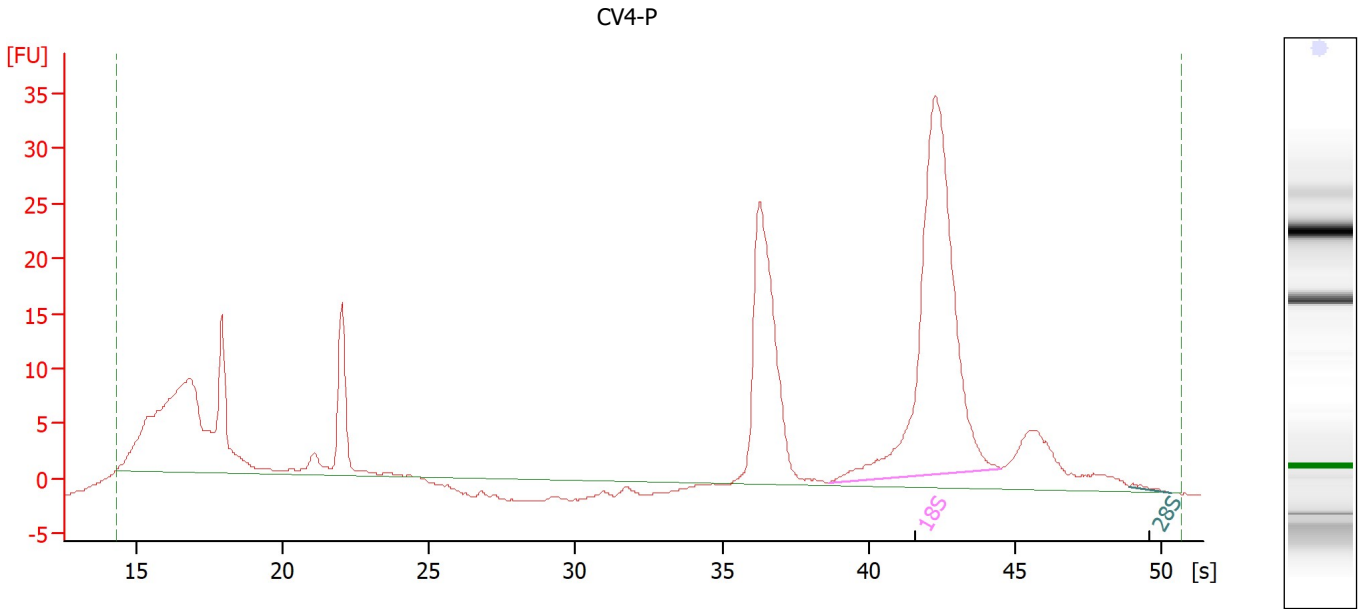
**Fragment table for sample 2 : CV1-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.73	44.18	58.1	25.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : CV4-P**

RNA Area:	344.4	RNA Integrity Number (RIN):	7.7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,584 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.70

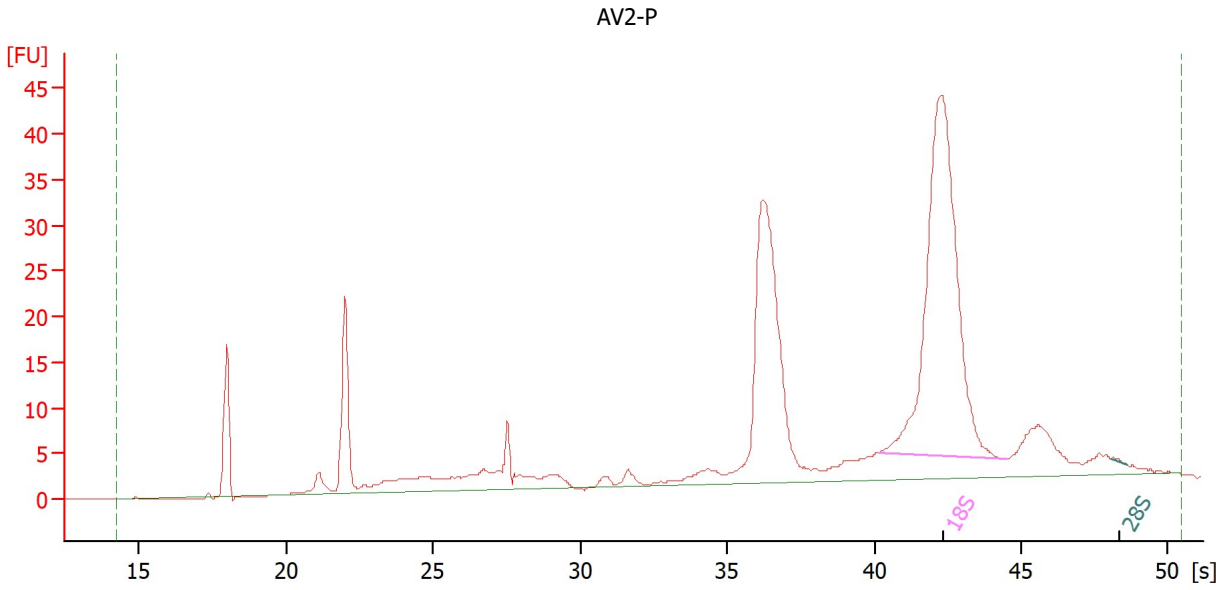
**Fragment table for sample 3 : CV4-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.64	44.51	106.3	30.9
28S	48.92	50.35	0.4	0.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : AV2-P**

RNA Area:	332.7	RNA Integrity Number (RIN):	7.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,495 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.20

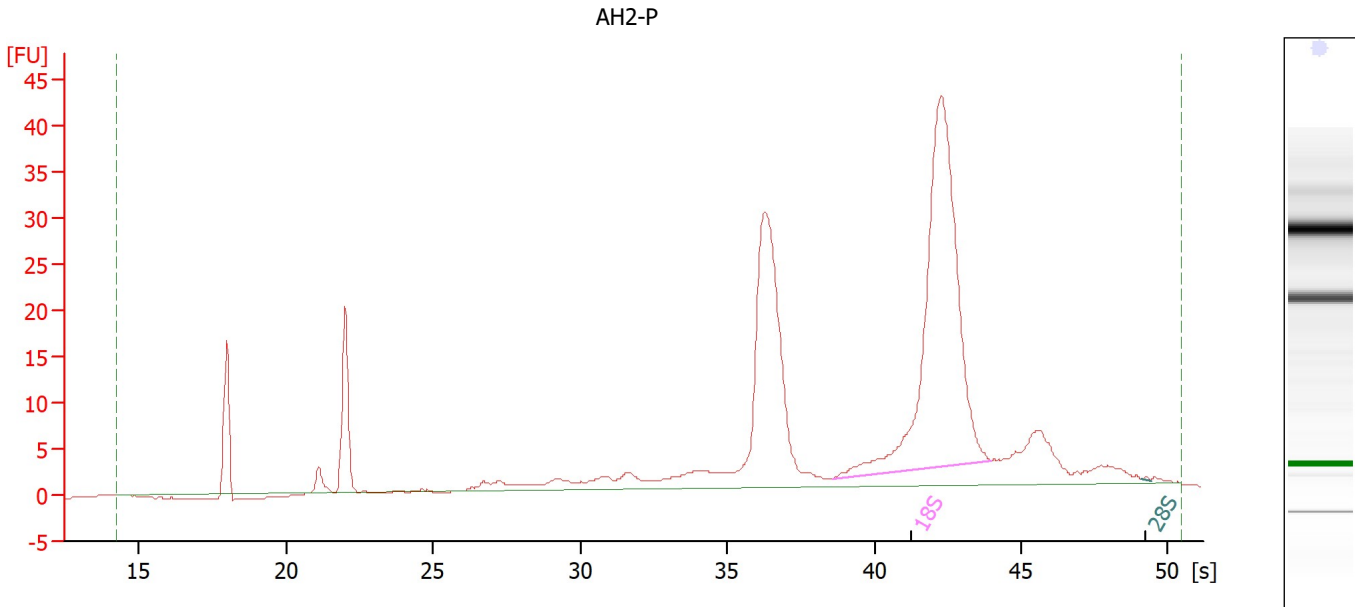
**Fragment table for sample 4 : AV2-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.16	44.55	111.2	33.4
28S	48.06	48.64	0.2	0.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : AH2-P**

RNA Area:	301.6	RNA Integrity Number (RIN):	7.1 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,262 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.10

**Fragment table for sample 5 : AH2-P**

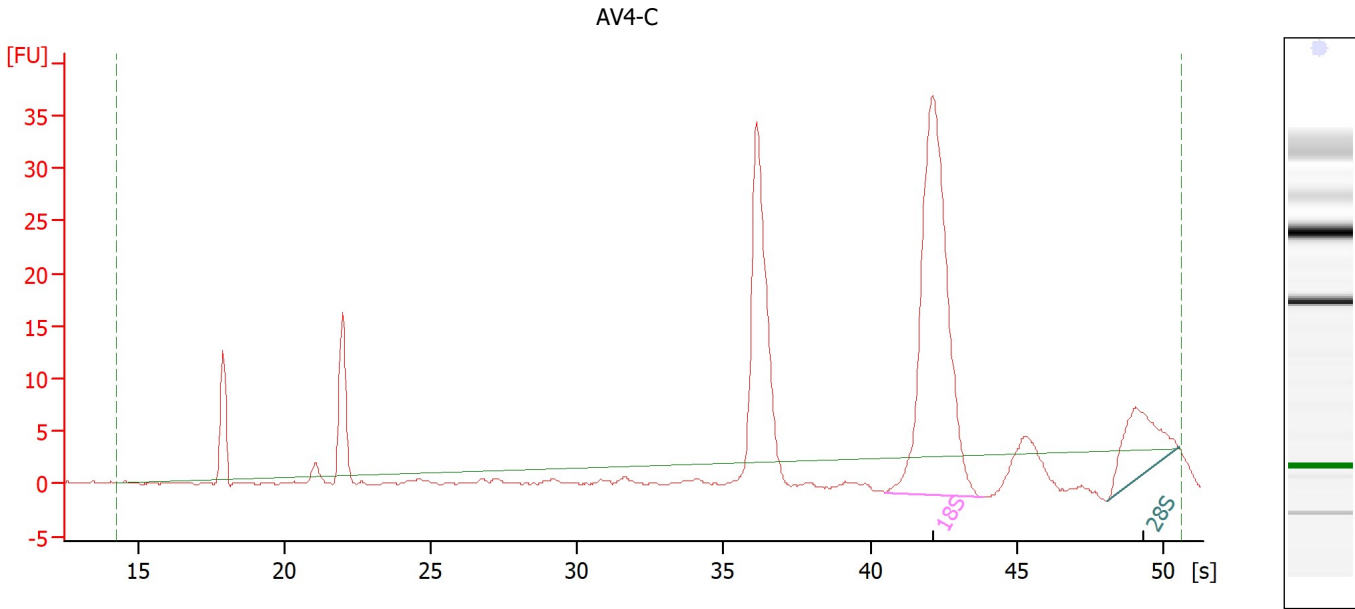
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.59	44.00	117.8	39.0
28S	49.12	49.41	0.1	0.0



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : AV4-C**

RNA Area:	144.8	RNA Integrity Number (RIN):	8.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,086 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 8.20

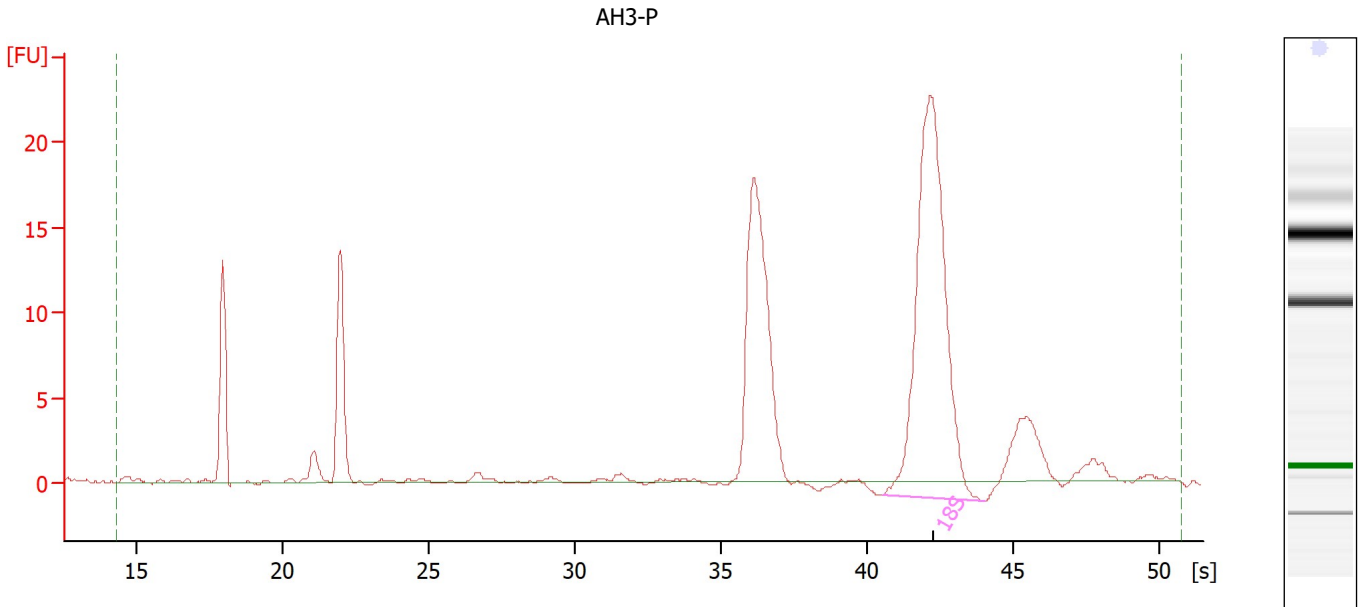
**Fragment table for sample 6 : AV4-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.52	43.85	92.3	63.7
28S	48.07	50.53	18.0	12.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : AH3-P**

RNA Area:	134.5	RNA Integrity Number (RIN):	7.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,009 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.80

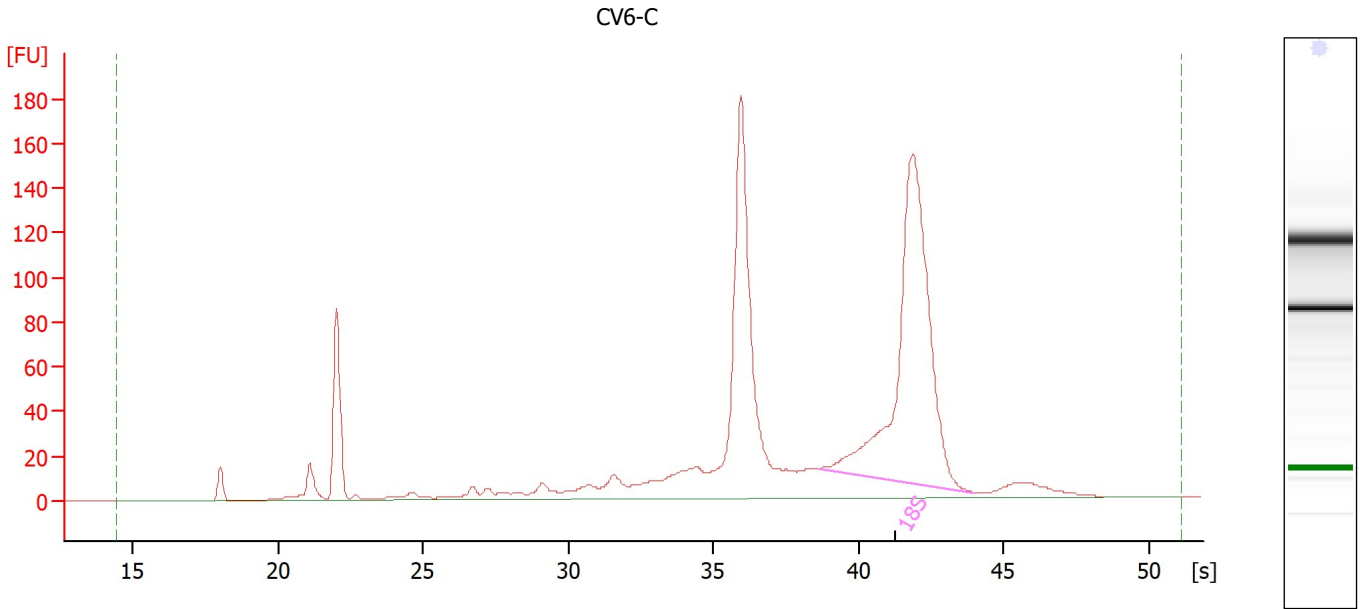
**Fragment table for sample 7 : AH3-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.54	44.04	63.1	46.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : CV6-C**

RNA Area:	1,217.1	RNA Integrity Number (RIN):	6.9 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	9,129 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.90

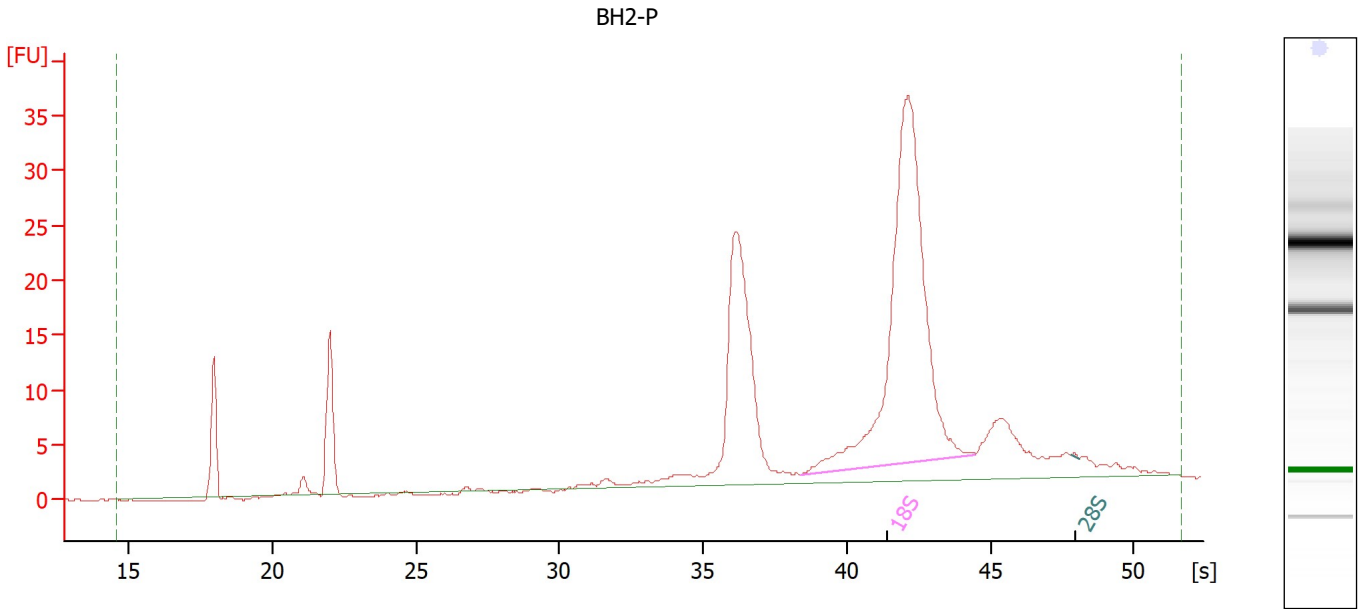
**Fragment table for sample 8 : CV6-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.67	43.93	435.7	35.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BH2-P**

RNA Area:	246.4	RNA Integrity Number (RIN):	7.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,848 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.60

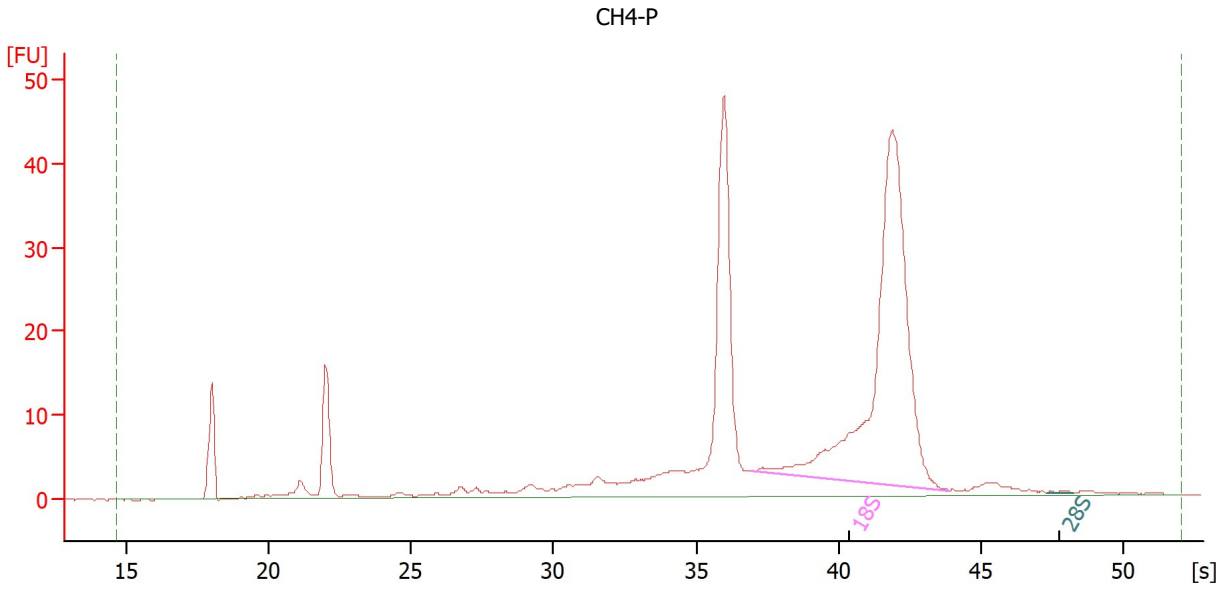
**Fragment table for sample 9 : BH2-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.39	44.49	105.4	42.8
28S	47.82	48.08	0.1	0.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : CH4-P**

RNA Area:	330.0	RNA Integrity Number (RIN):	7.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,475 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.20

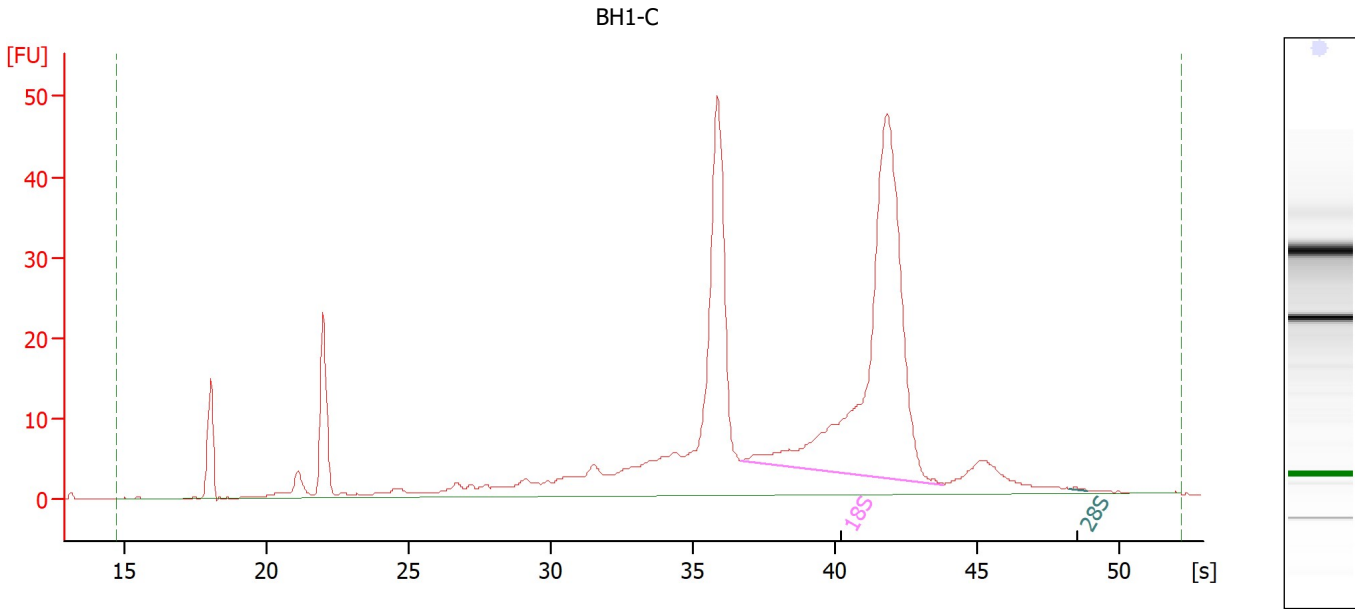
**Fragment table for sample 10 : CH4-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	36.88	43.89	132.3	40.1
28S	47.32	48.22	0.2	0.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : BH1-C**

RNA Area:	426.0	RNA Integrity Number (RIN):	7.1 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	3,195 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.10

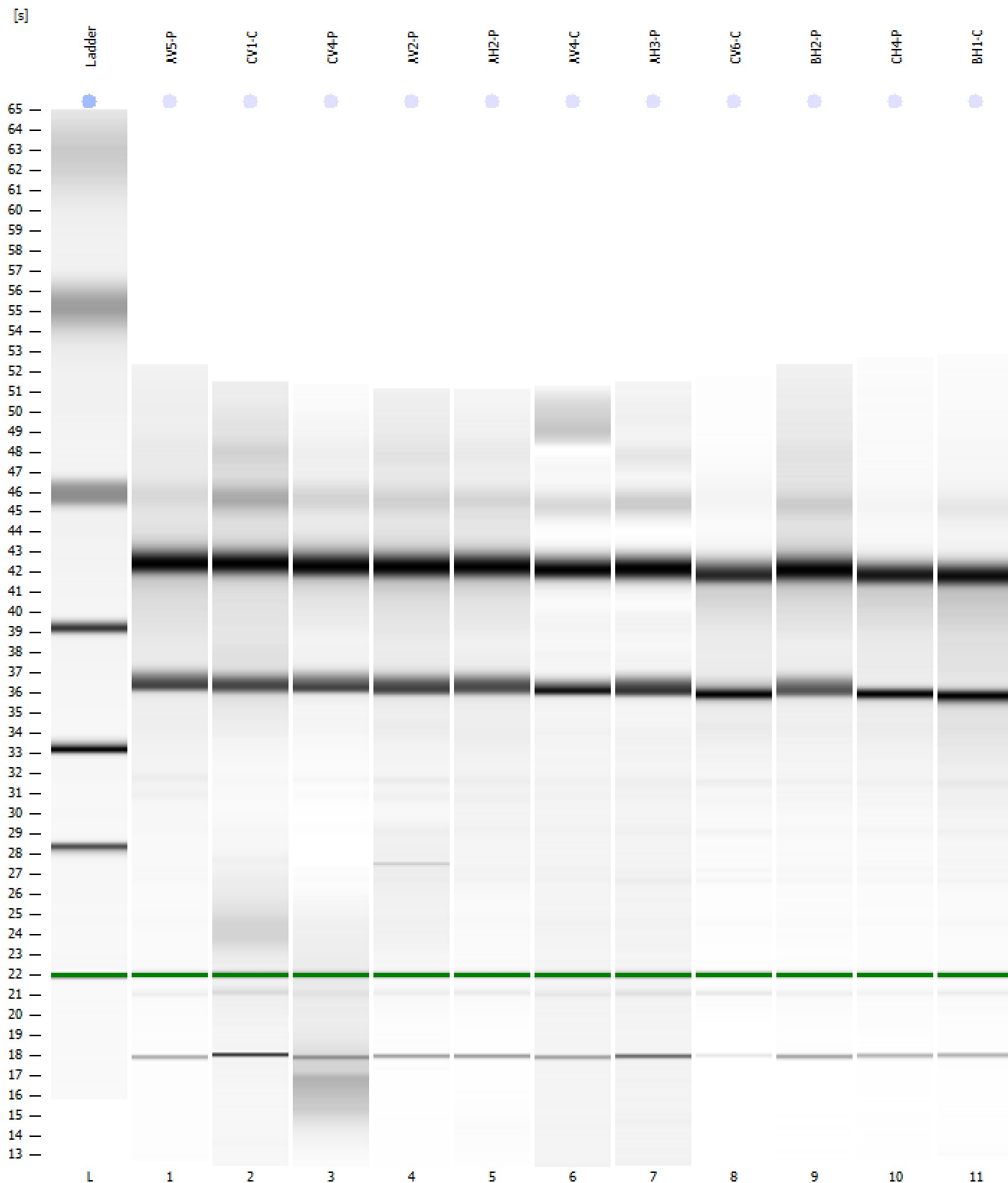
**Fragment table for sample 11 : BH1-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	36.67	43.81	151.4	35.5
28S	48.27	48.88	0.2	0.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
Modified: 12/4/2019 12:20:43 PM

**Gel Image**

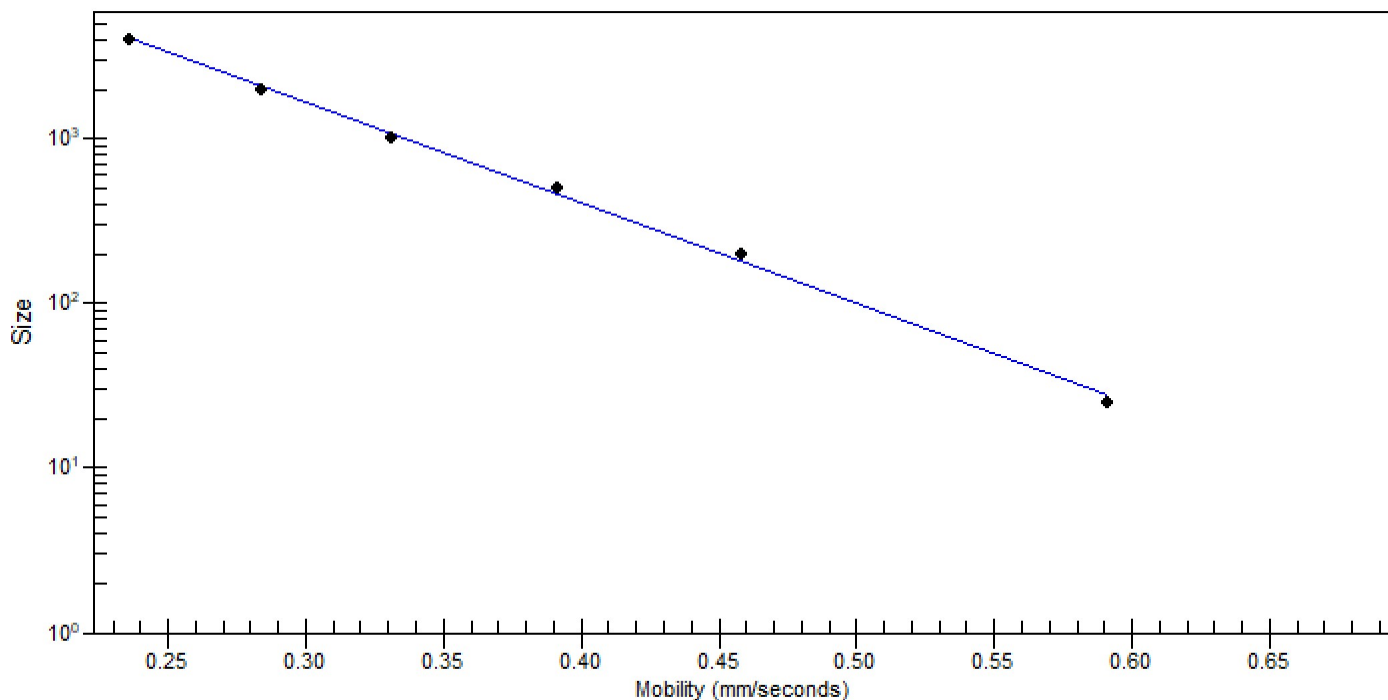


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
Modified: 12/4/2019 12:20:43 PM

**Curves**

**Standard Curve**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_003.xad

Created: 12/4/2019 11:29:28 AM  
 Modified: 12/4/2019 12:20:43 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		12/4/2019 11:51:30 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-04\Bioanalyze r1_Eukaryote Total RNA Pico_2019-12-04_003.xad)		Instrument	Run		12/4/2019 11:29:34 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/4/2019 11:29:34 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/4/2019 11:29:34 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/4/2019 11:29:34 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/4/2019 11:29:34 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/4/2019 11:29:34 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/4/2019 11:29:34 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB