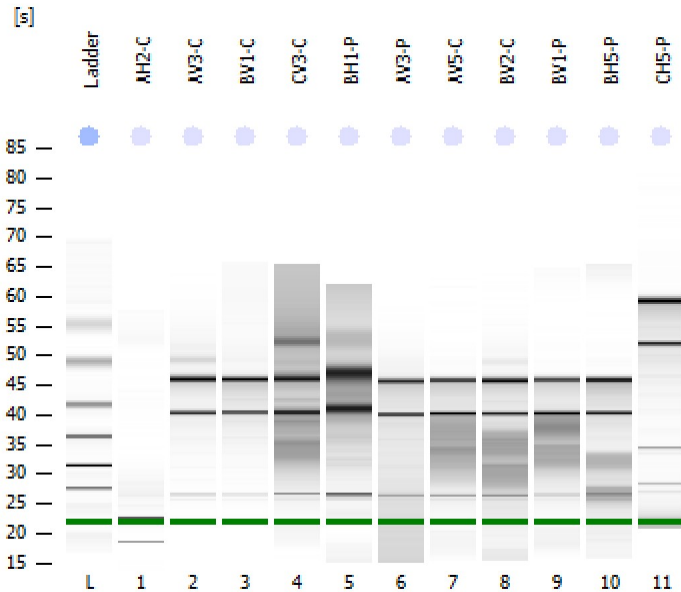


Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

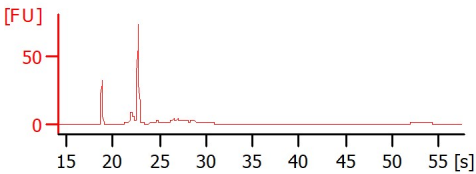
Assay Information:

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.

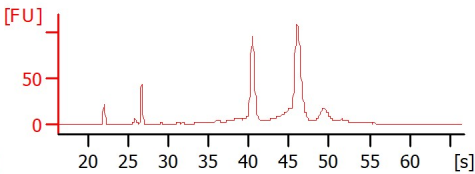
Chip Information:

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

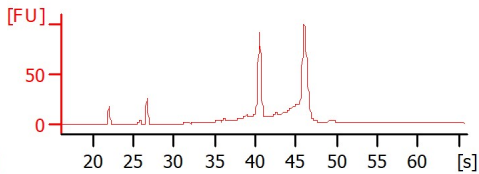
**AH2-C**  
 RIN: 2.50



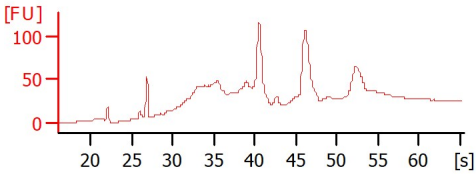
**AV3-C**  
 RIN: 9.10



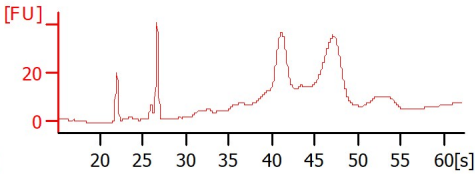
**BV1-C**  
 RIN: 8.90



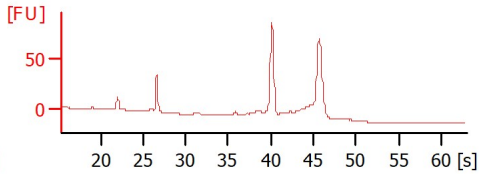
**CV3-C**  
 RIN: 6.20



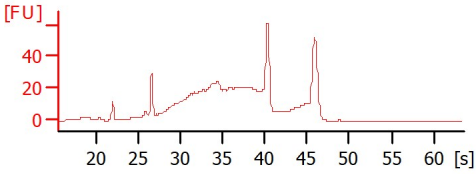
**BH1-P**  
 RIN: 8.50



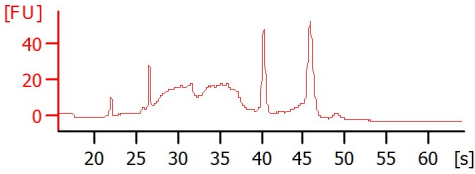
**AV3-P**  
 RIN: 10



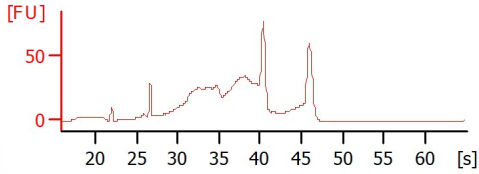
**AV5-C**  
 RIN: 5.70



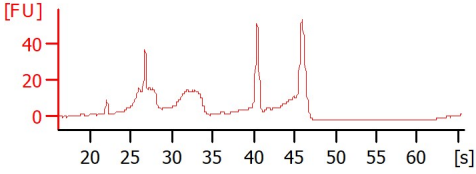
**BV2-C**  
 RIN: 5.90



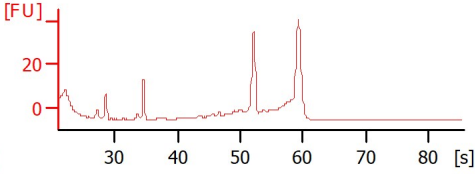
**BV1-P**  
 RIN: 5.60



**BH5-P**  
 RIN: 6.50



**CH5-P**  
 RIN: 4.70



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
AH2-C		✓	RIN: 2.50	
AV3-C		✓	RIN: 9.10	
BV1-C		✓	RIN: 8.90	
CV3-C		✓	RIN: 6.20	
BH1-P		✓	RIN: 8.50	
AV3-P		✓	RIN:10	
AV5-C		✓	RIN: 5.70	
BV2-C		✓	RIN: 5.90	
BV1-P		✓	RIN: 5.60	
BH5-P		✓	RIN: 6.50	
CH5-P		✓	RIN: 4.70	
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\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 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

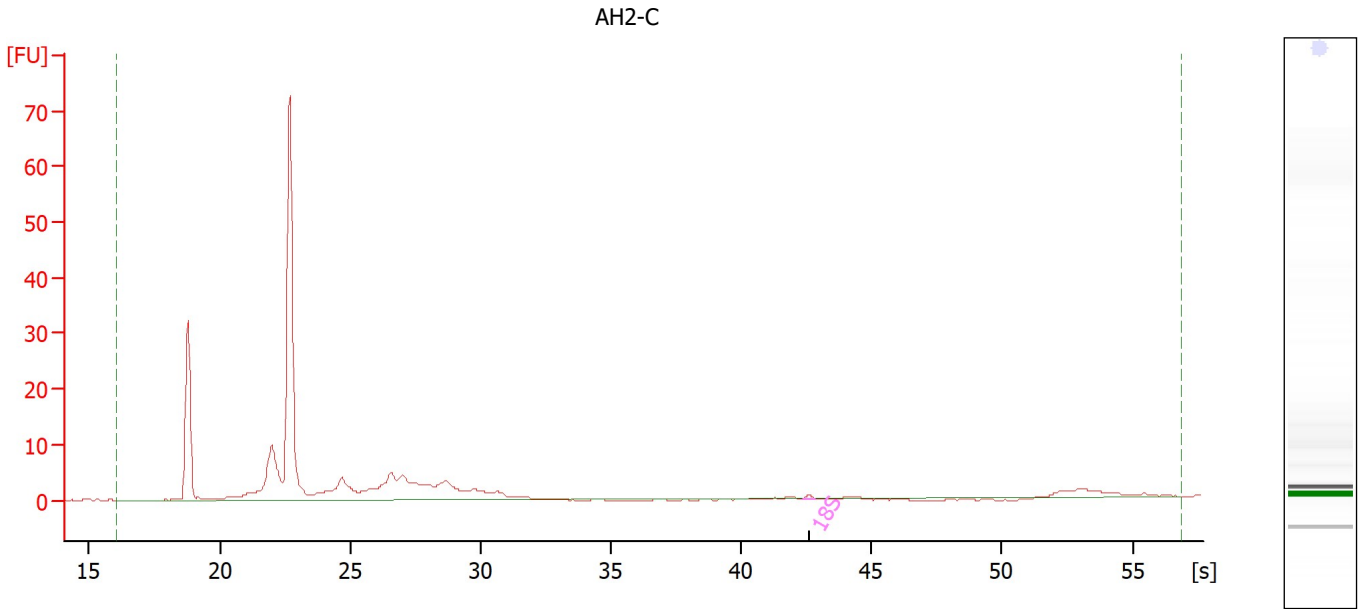
**Ladder**

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\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary**



**Overall Results for sample 1 : AH2-C**

RNA Area:	197.3	RNA Integrity Number (RIN):	2.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,582 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: 2.50

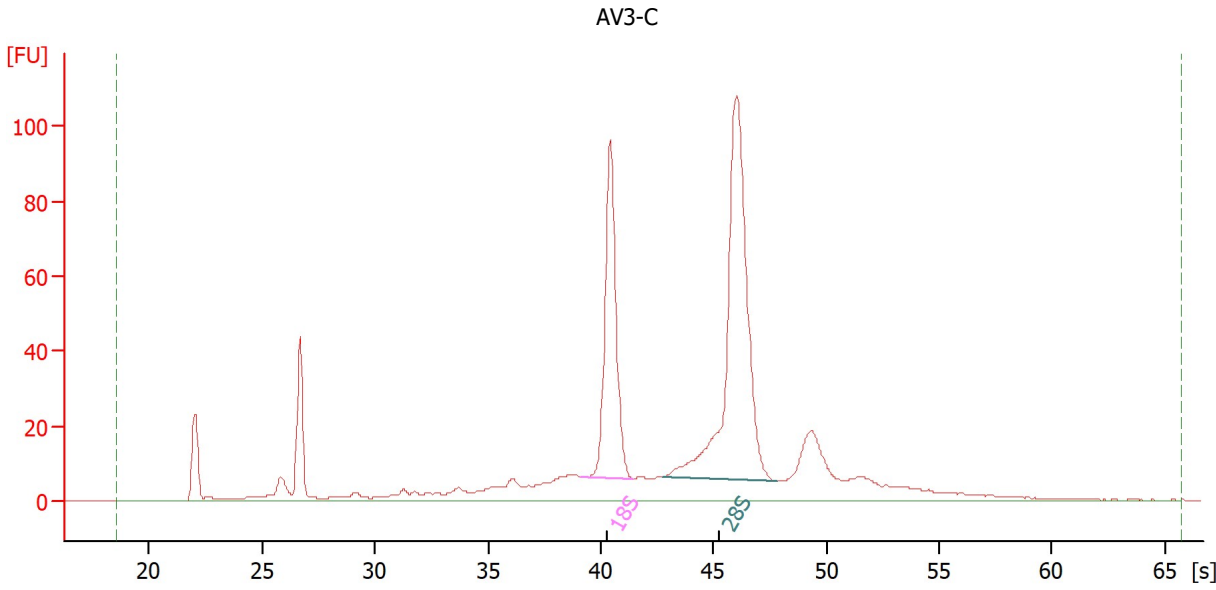
**Fragment table for sample 1 : AH2-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	42.35	42.85	0.3	0.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : AV3-C**

RNA Area:	743.7	RNA Integrity Number (RIN):	9.1 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	5,964 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]:	1.8	Result Flagging Label:	RIN: 9.10

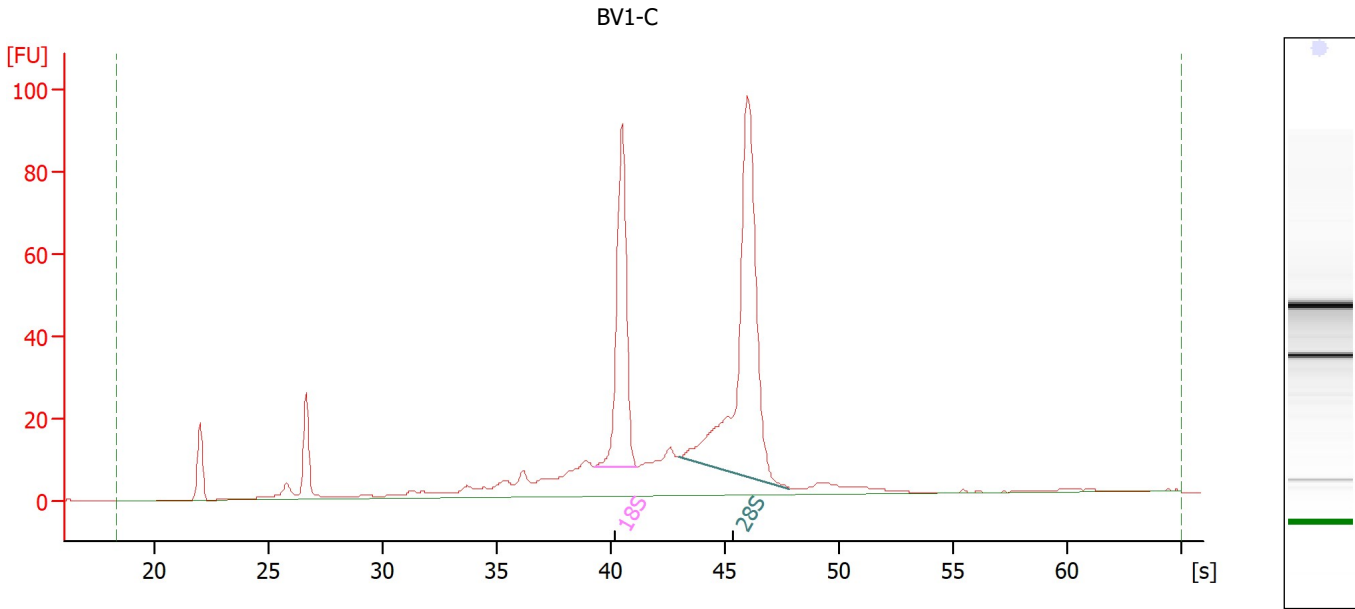
**Fragment table for sample 2 : AV3-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.14	41.43	127.0	17.1
28S	42.76	47.81	230.1	30.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : BV1-C**

RNA Area:	569.5	RNA Integrity Number (RIN):	8.9 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	4,567 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]:	1.9	Result Flagging Label:	RIN: 8.90

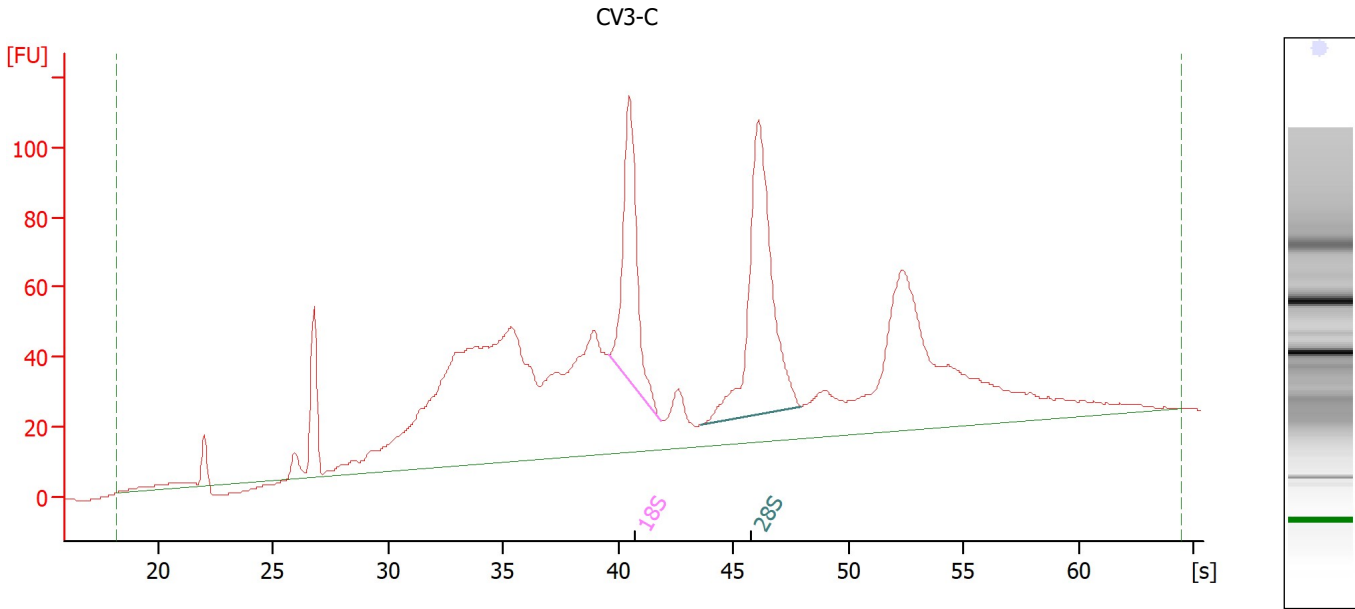
**Fragment table for sample 3 : BV1-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.29	41.17	99.4	17.5
28S	43.01	47.86	186.4	32.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : CV3-C**

RNA Area:	1,767.3	RNA Integrity Number (RIN):	6.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	14,173 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]:	1.5	Result Flagging Label:	RIN: 6.20

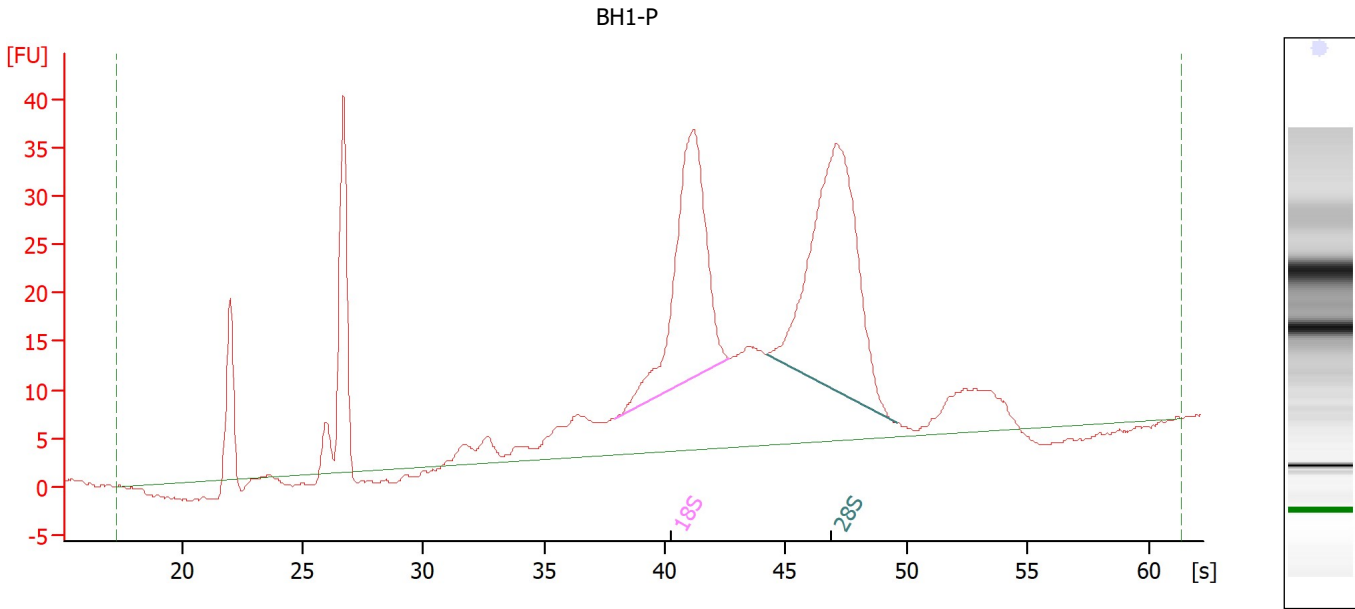
**Fragment table for sample 4 : CV3-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.56	41.85	137.8	7.8
28S	43.58	47.92	209.8	11.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : BH1-P**

RNA Area:	522.2	RNA Integrity Number (RIN):	8.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	4,188 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]:	1.3	Result Flagging Label:	RIN: 8.50

**Fragment table for sample 5 : BH1-P**

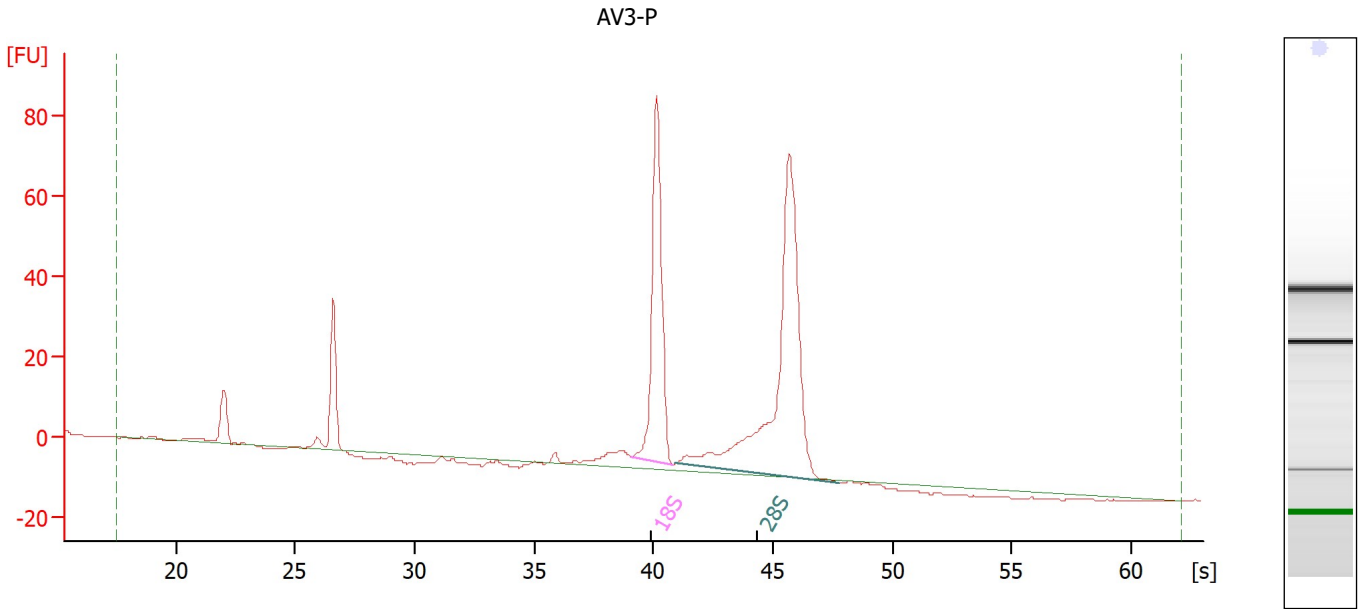
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.91	42.67	94.6	18.1
28S	44.18	49.56	121.6	23.3



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : AV3-P**

RNA Area:	389.9	RNA Integrity Number (RIN):	10 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	3,127 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]:	1.8	Result Flagging Label:	RIN:10

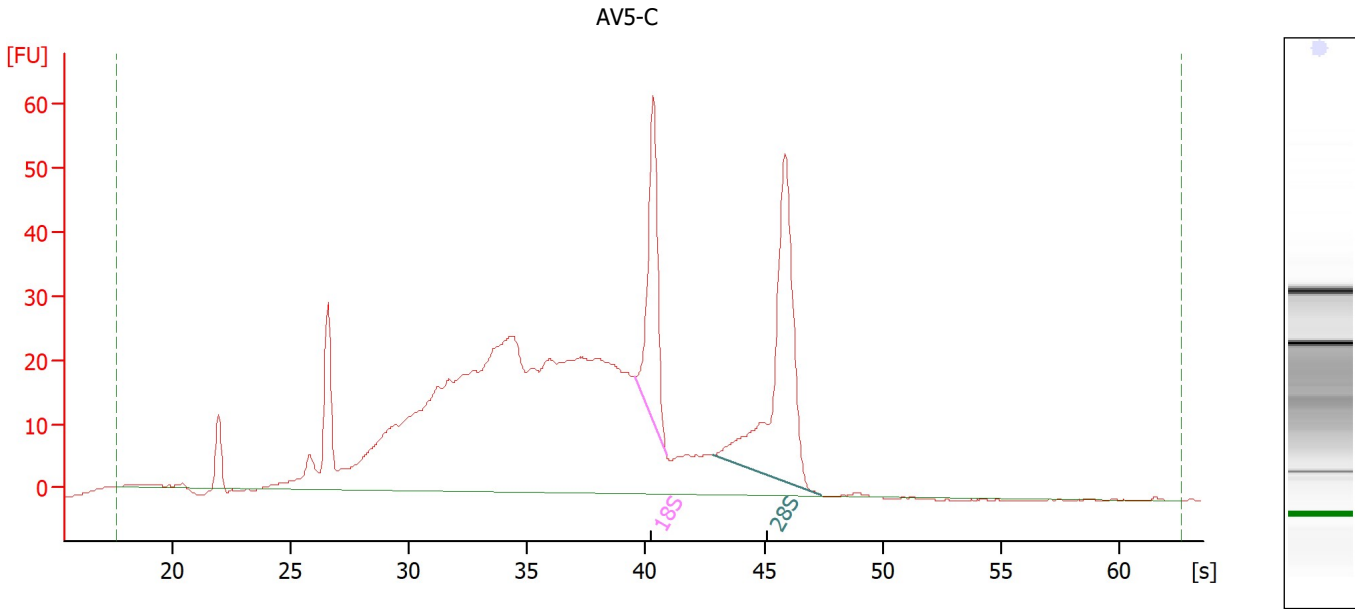
**Fragment table for sample 6 : AV3-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.10	40.85	106.5	27.3
28S	40.94	47.73	191.9	49.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : AV5-C**

RNA Area:	925.1	RNA Integrity Number (RIN):	5.7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	7,419 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]:	1.8	Result Flagging Label:	RIN: 5.70

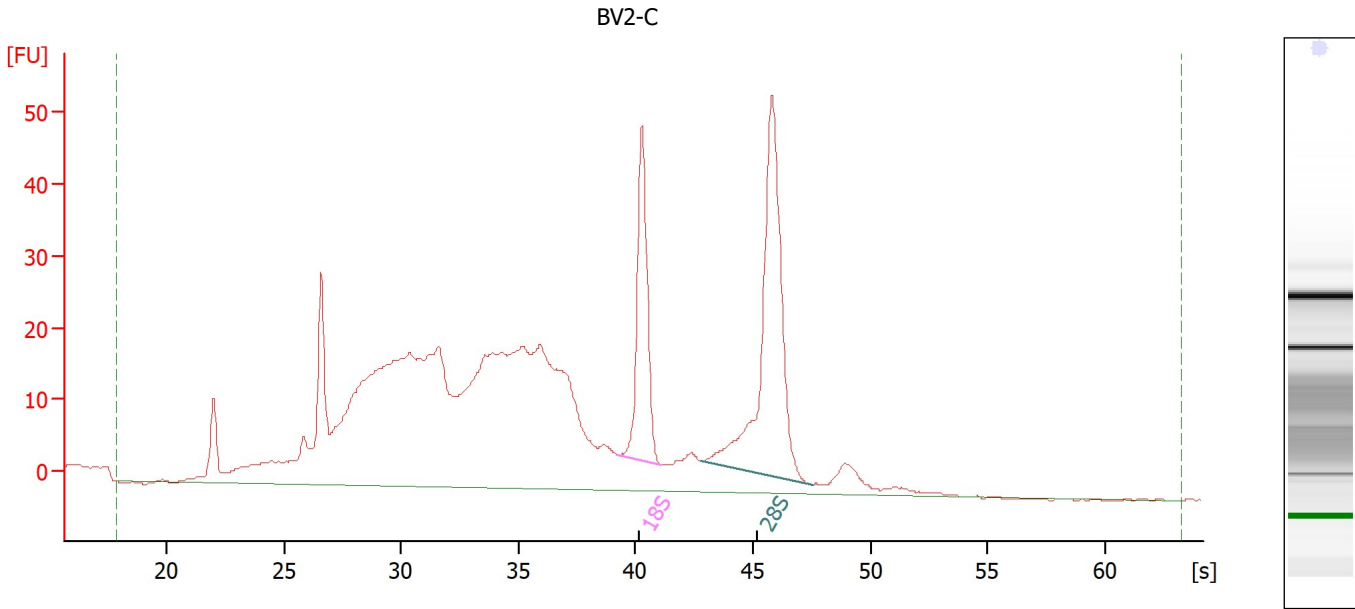
**Fragment table for sample 7 : AV5-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.55	40.87	60.8	6.6
28S	42.87	47.45	106.9	11.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : BV2-C**

RNA Area:	896.6	RNA Integrity Number (RIN):	5.9 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	7,191 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]:	1.9	Result Flagging Label:	RIN: 5.90

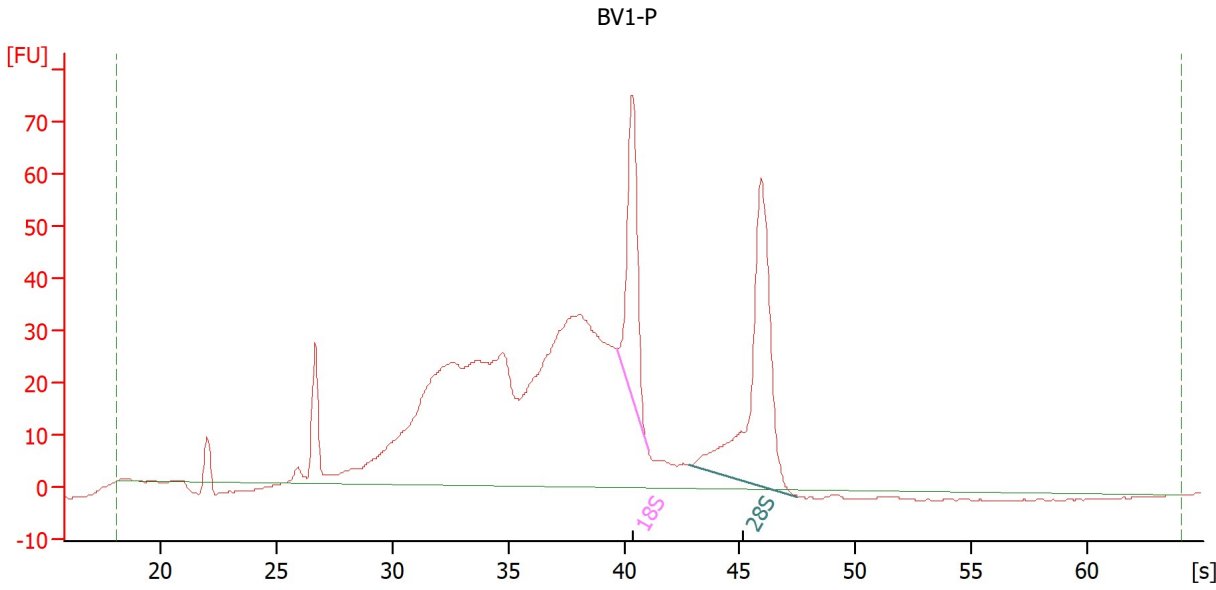
**Fragment table for sample 8 : BV2-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.23	41.11	57.6	6.4
28S	42.76	47.53	111.3	12.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BV1-P**

RNA Area:	1,009.5	RNA Integrity Number (RIN):	5.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	8,096 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]:	1.8	Result Flagging Label:	RIN: 5.60

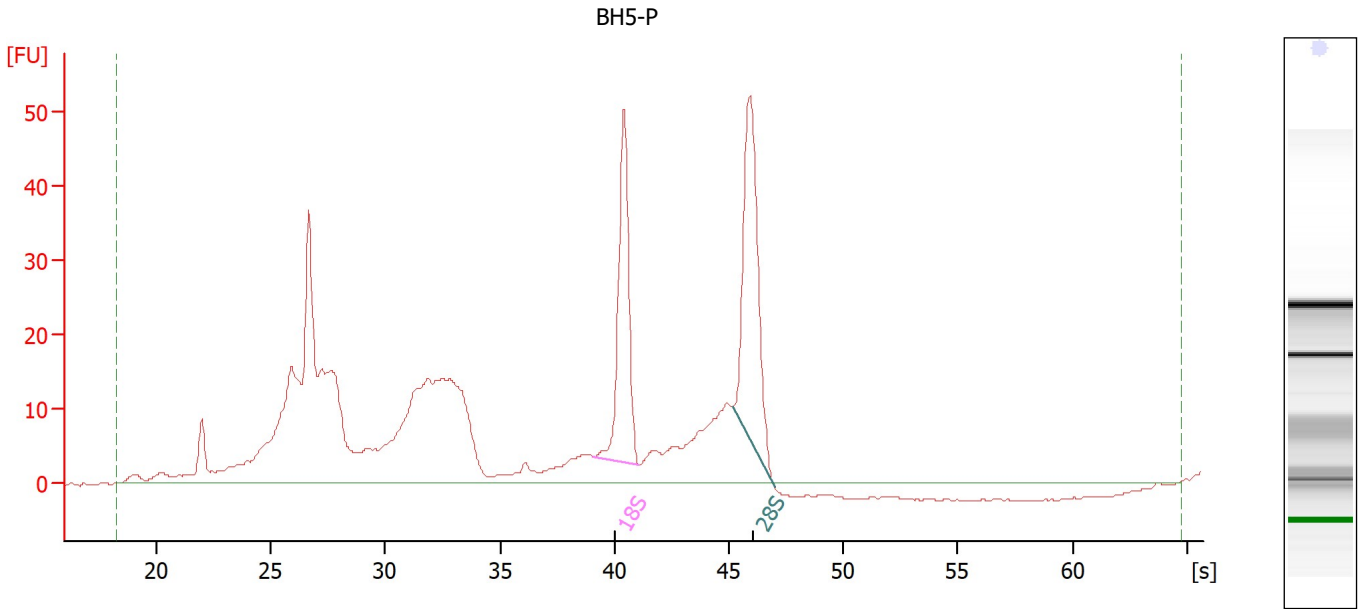
**Fragment table for sample 9 : BV1-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.68	41.03	72.2	7.2
28S	42.84	47.48	127.2	12.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : BH5-P**

RNA Area:	628.0	RNA Integrity Number (RIN):	6.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	5,037 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]:	1.2	Result Flagging Label:	RIN: 6.50

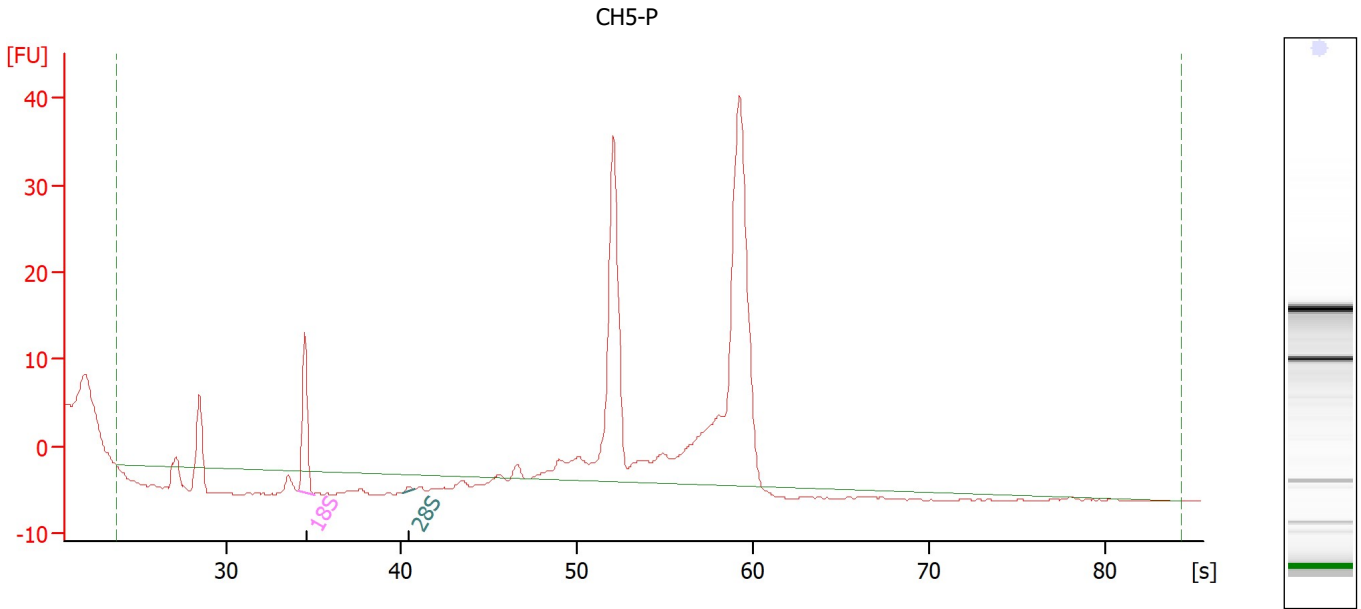
**Fragment table for sample 10 : BH5-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.07	41.09	61.3	9.8
28S	45.17	47.00	74.8	11.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : CH5-P**

RNA Area:	187.2	RNA Integrity Number (RIN):	4.7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,502 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: 4.70

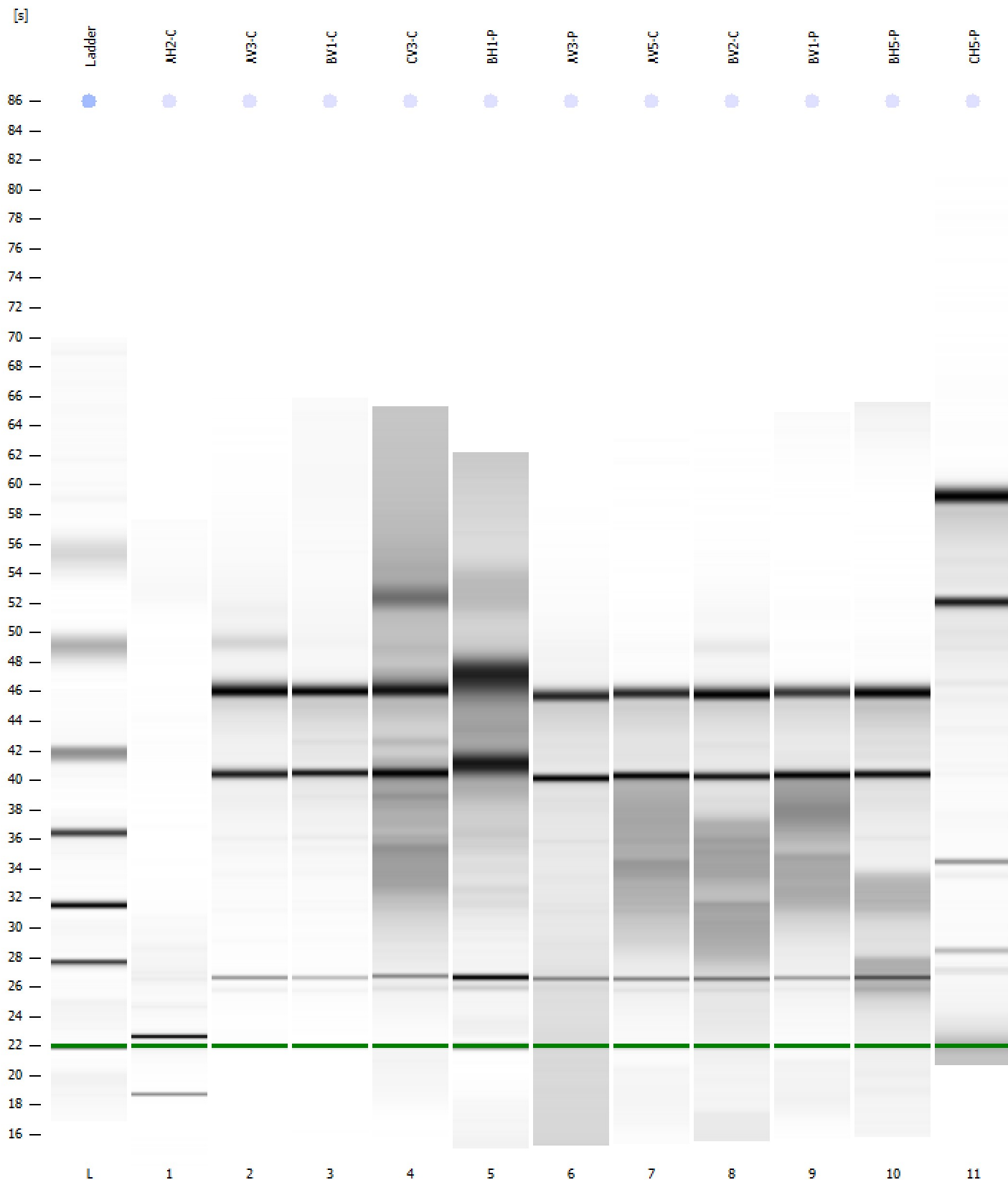
**Fragment table for sample 11 : CH5-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.10	35.02	18.8	10.0
28S	40.09	40.76	0.5	0.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 PM

**Gel Image**

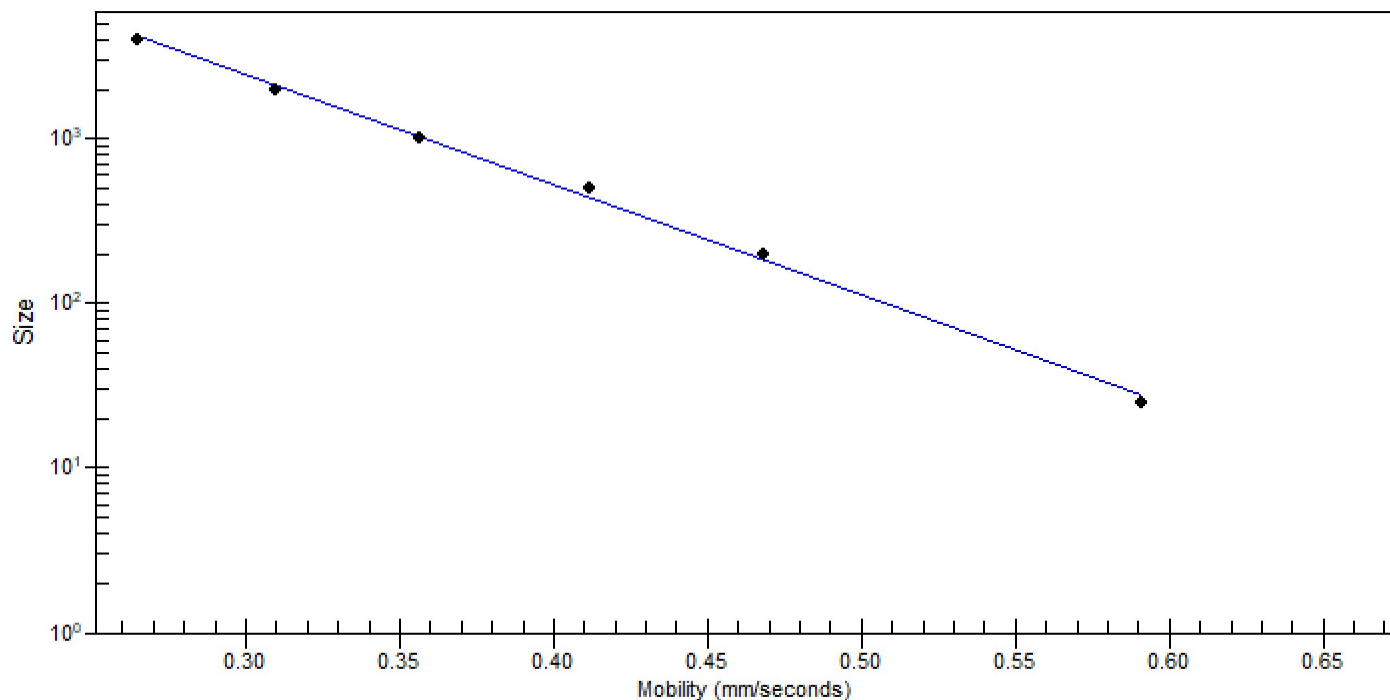


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
Modified: 12/4/2019 12:19:11 PM

**Curves**

**Standard Curve**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-04\_001.xad

Created: 12/4/2019 9:42:26 AM  
 Modified: 12/4/2019 12:19:11 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 10:05:26 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_001.xad)		Instrument	Run		12/4/2019 9:42:31 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/4/2019 9:42:31 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/4/2019 9:42:31 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/4/2019 9:42:31 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/4/2019 9:42:31 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/4/2019 9:42:31 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/4/2019 9:42:31 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB