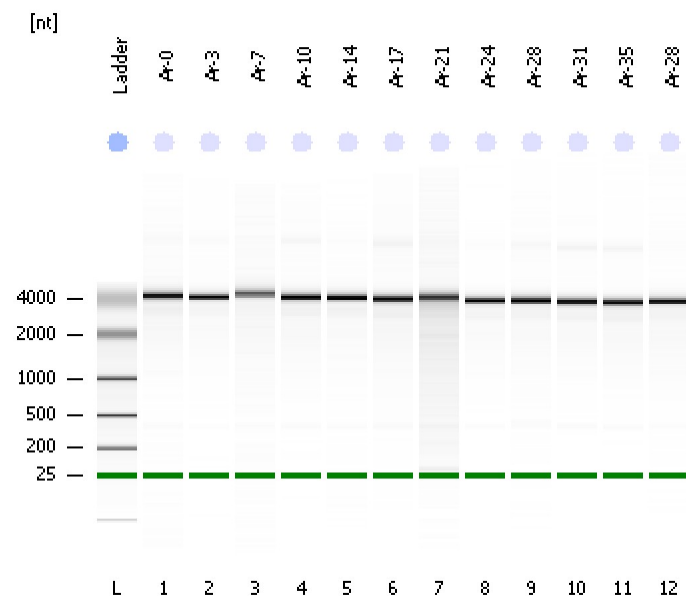


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: DE24802438
Serial#: DE24802438

Firmware: C.01.069
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)

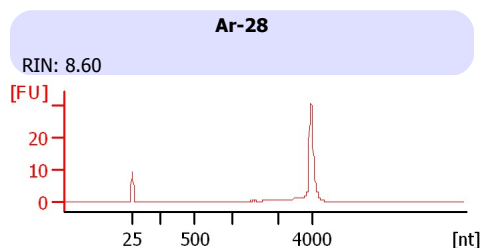
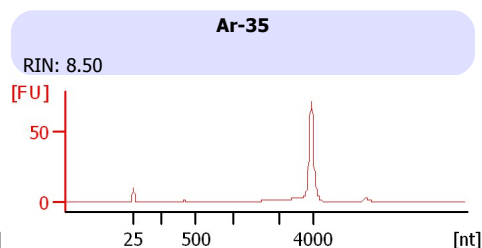
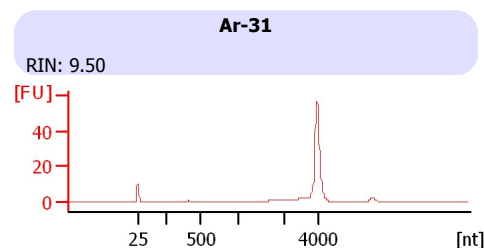
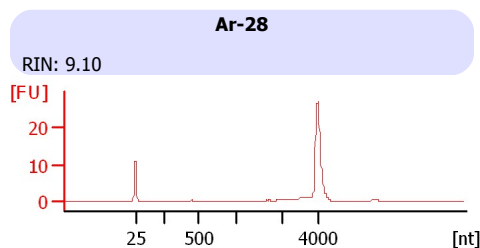
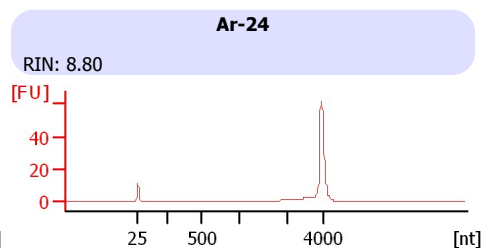
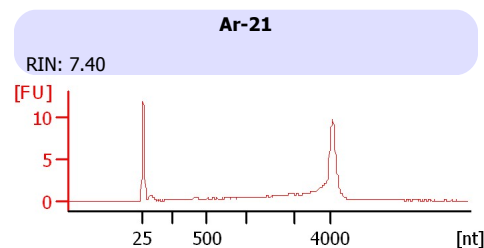
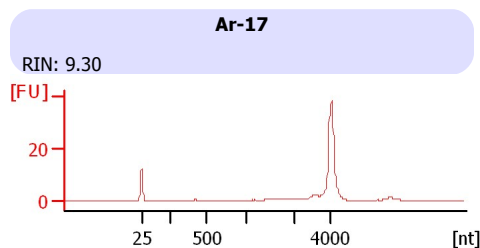
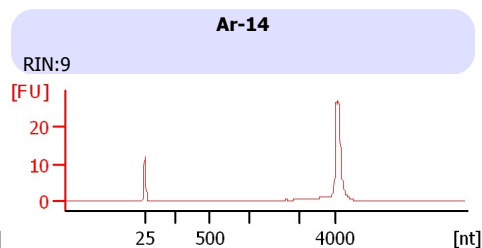
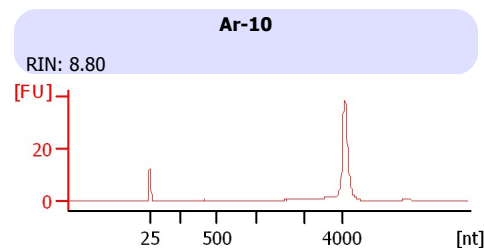
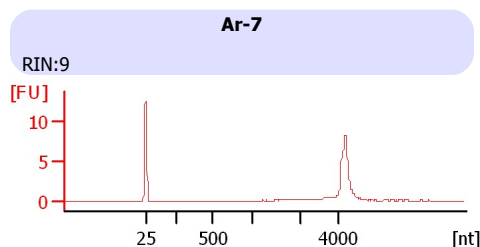
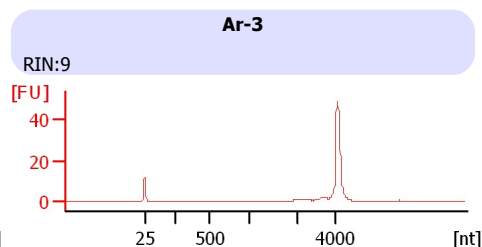
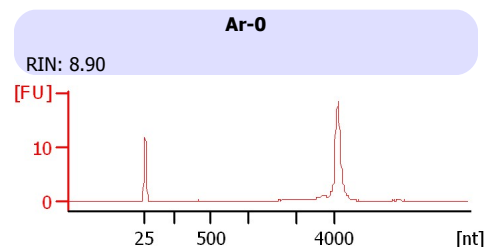
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Ar-0		✓	RIN: 8.90	
Ar-3		✓	RIN:9	
Ar-7		✓	RIN:9	
Ar-10		✓	RIN: 8.80	
Ar-14		✓	RIN:9	
Ar-17		✓	RIN: 9.30	
Ar-21		✓	RIN: 7.40	
Ar-24		✓	RIN: 8.80	
Ar-28		✓	RIN: 9.10	
Ar-31		✓	RIN: 9.50	
Ar-35		✓	RIN: 8.50	
Ar-28		✓	RIN: 8.60	

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 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/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

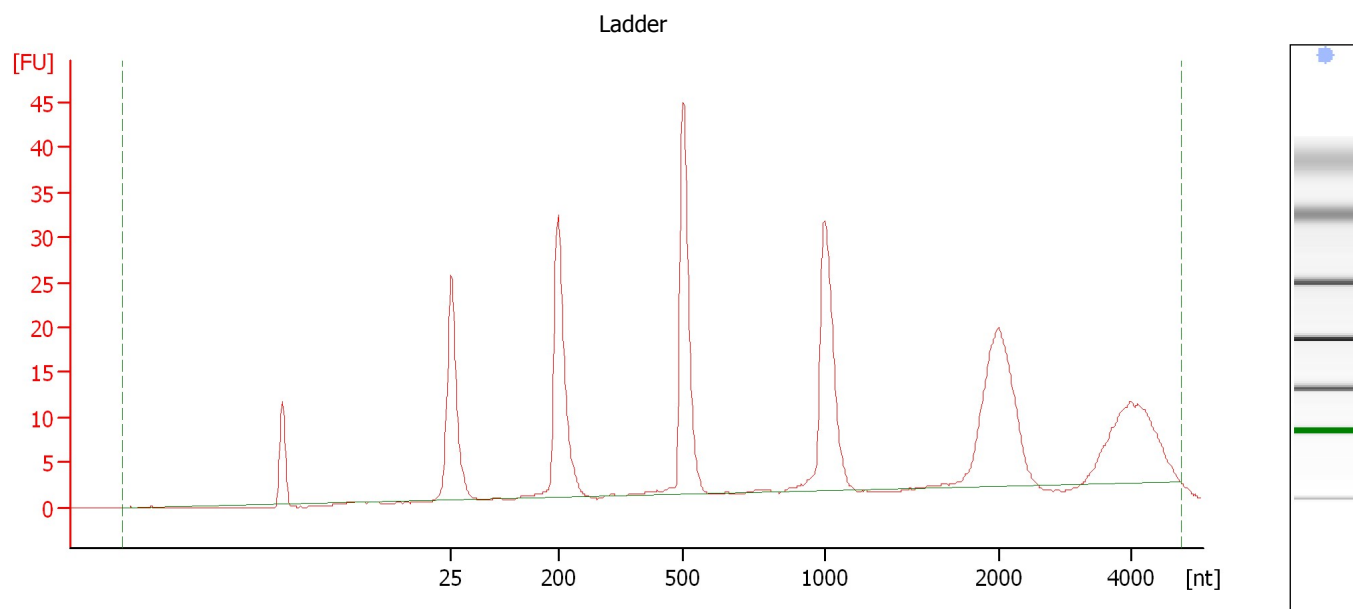
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 227.8

Result Flagging Color:



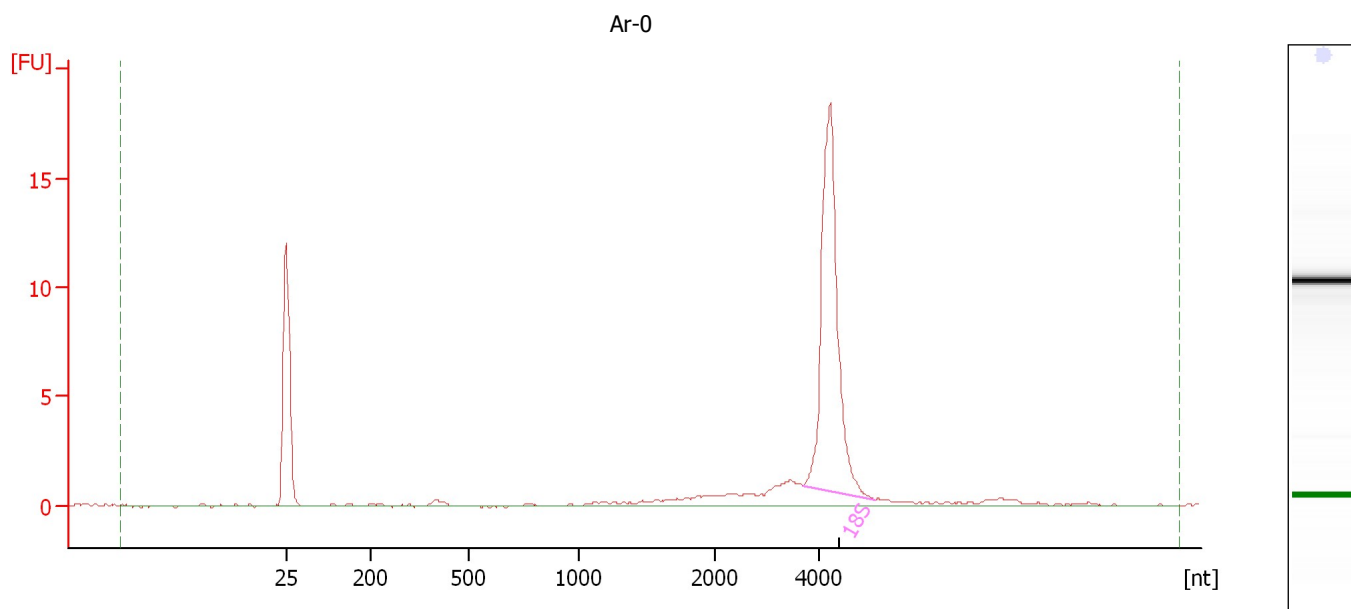
RNA Concentration: 150 ng/μl

Result Flagging Label:

All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 1 : Ar-0**

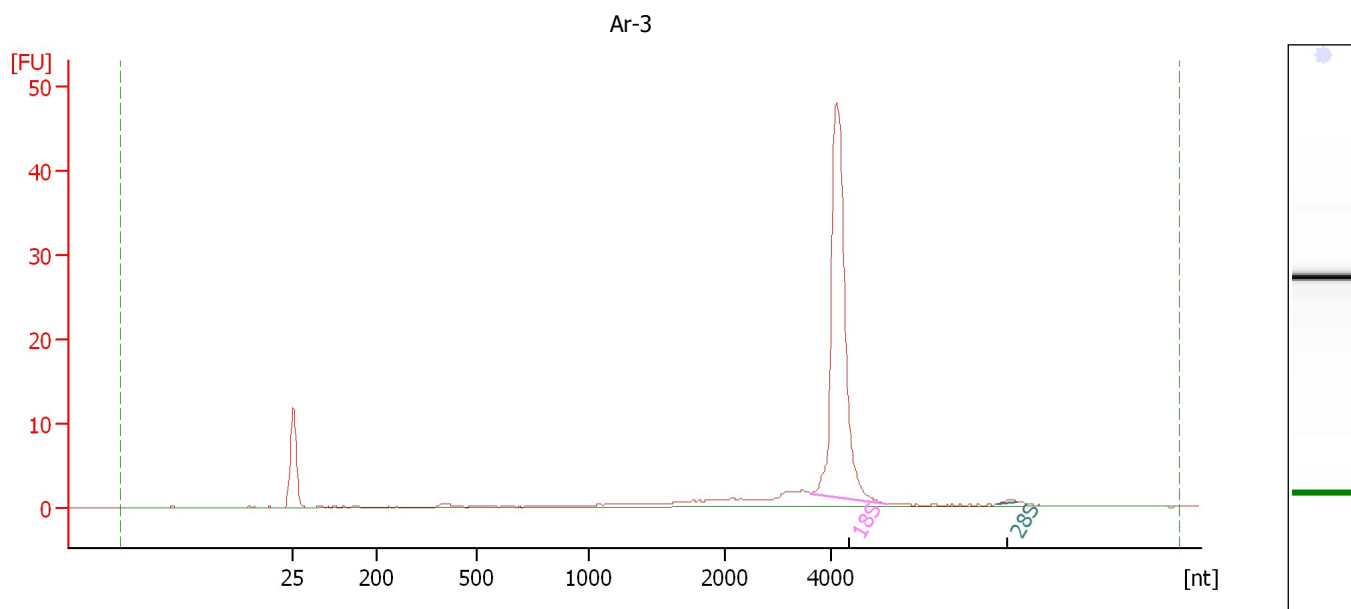
RNA Area:	44.2	RNA Integrity Number (RIN):	8.9 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	29 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.90

Fragment table for sample 1 : Ar-0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,725	5,087	28.7	65.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : Ar-3**

RNA Area: 97.6
RNA Concentration: 64 ng/μl
rRNA Ratio [28s / 18s]: 0.0

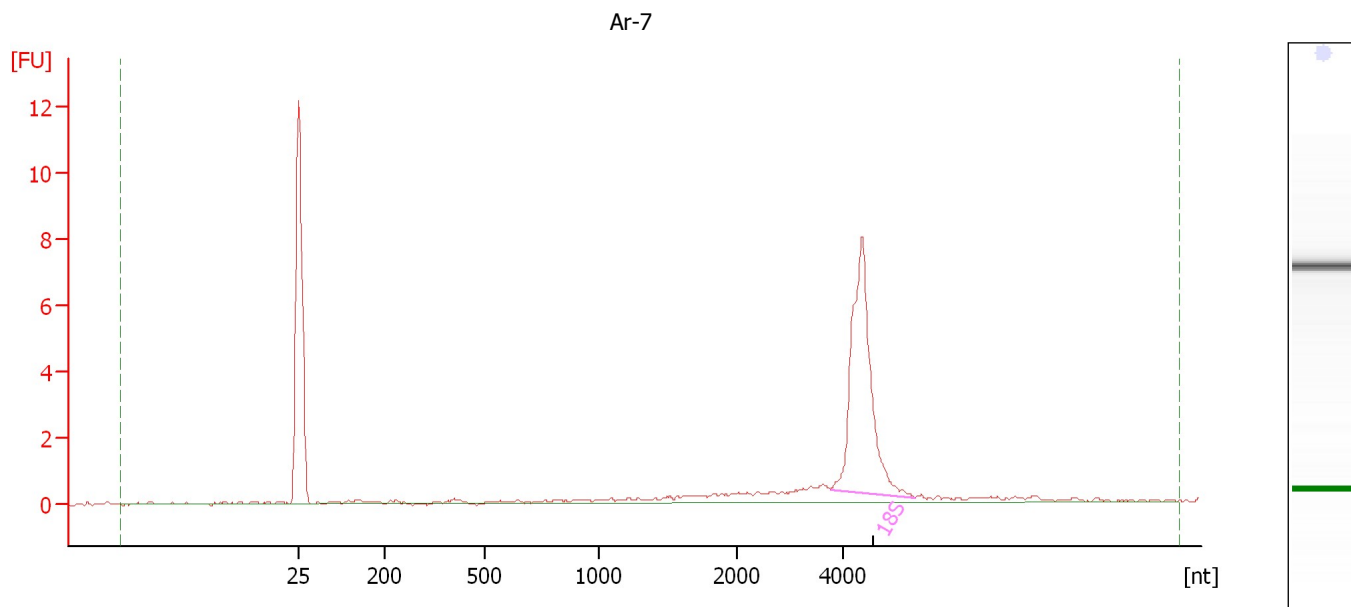
RNA Integrity Number (RIN): 9 (B.02.07, Anomaly Threshold(s) manually adapted)
Result Flagging Color:
Result Flagging Label: RIN:9

Fragment table for sample 2 : Ar-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,637	5,085	64.7	66.3
28S	7,166	7,575	0.3	0.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : Ar-7**

RNA Area: 25.5

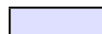
RNA Integrity Number (RIN):

9 (B.02.07, Anomaly
Threshold(s) manually
adapted)

RNA Concentration: 17 ng/μl

rRNA Ratio [28s / 18s]: 0.0

Result Flagging Color:



Result Flagging Label:

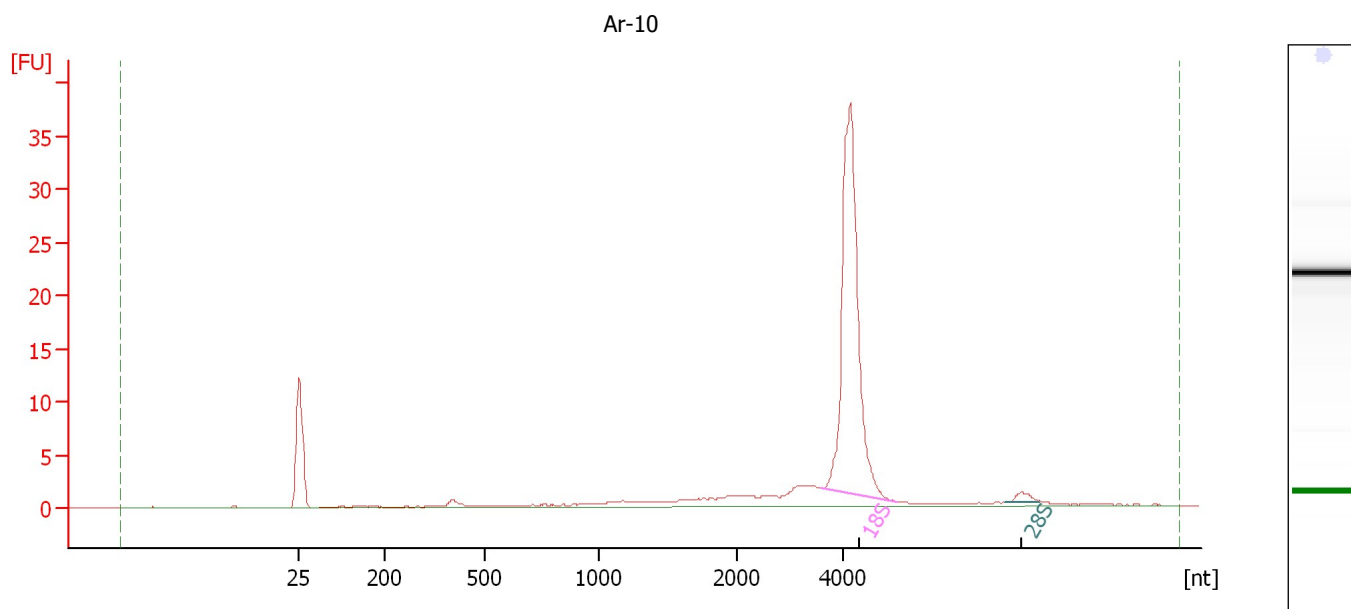
RIN:9

Fragment table for sample 3 : Ar-7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,772	5,367	14.6	57.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : Ar-10**

RNA Area: 99.2
RNA Concentration: 65 ng/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 8.8 (B.02.07,
Anomaly Threshold(s)
manually adapted)

Result Flagging Color:



Result Flagging Label:

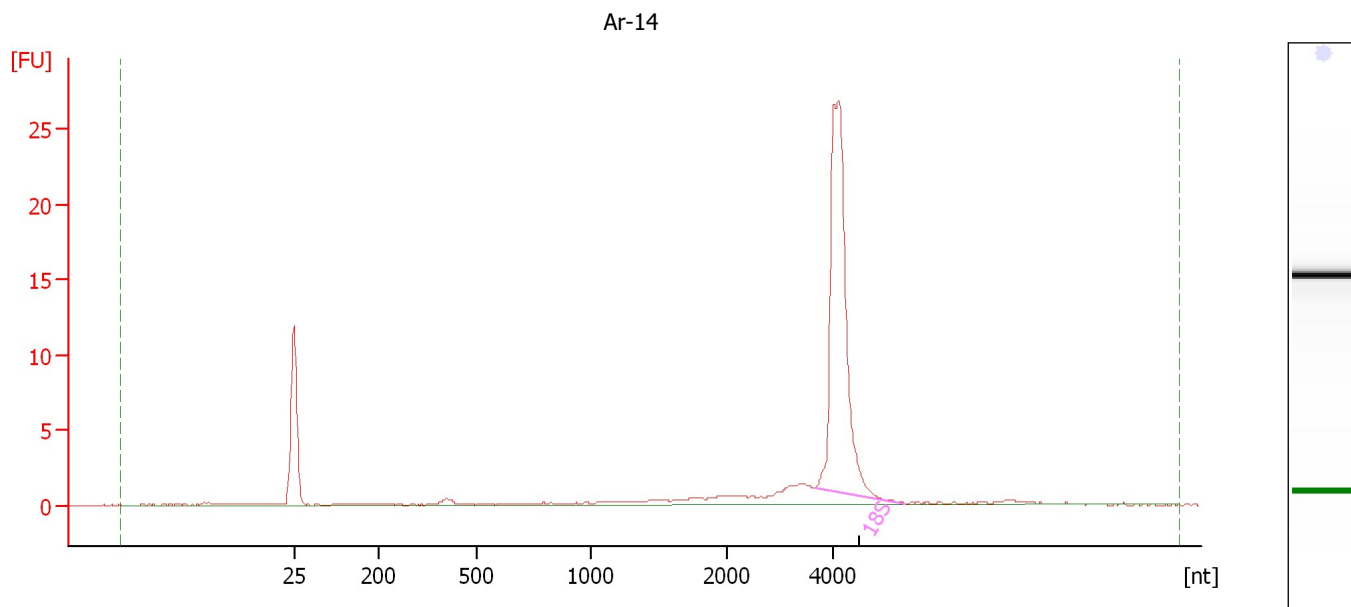
RIN: 8.80

Fragment table for sample 4 : Ar-10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,591	5,044	58.8	59.3
28S	7,082	7,708	1.1	1.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : Ar-14**

RNA Area: 63.5
RNA Concentration: 42 ng/μl
rRNA Ratio [28s / 18s]: 0.0

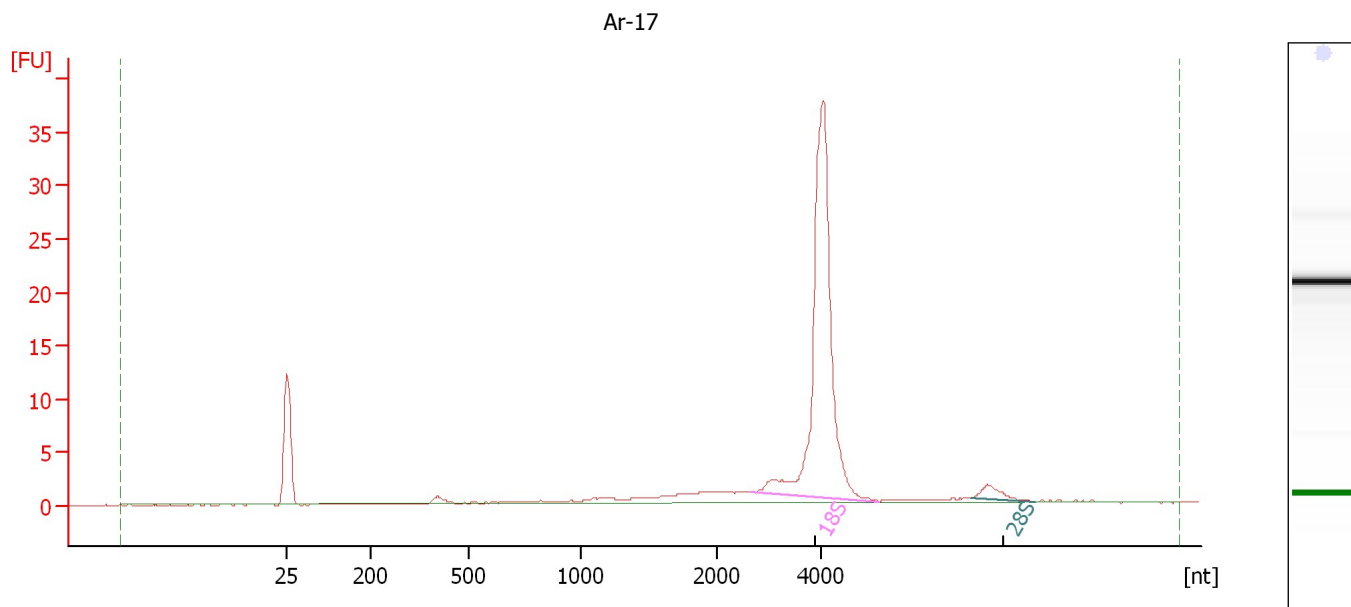
RNA Integrity Number (RIN): 9 (B.02.07, Anomaly Threshold(s) manually adapted)
Result Flagging Color:
Result Flagging Label: RIN:9

Fragment table for sample 5 : Ar-14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,660	5,370	41.1	64.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : Ar-17**

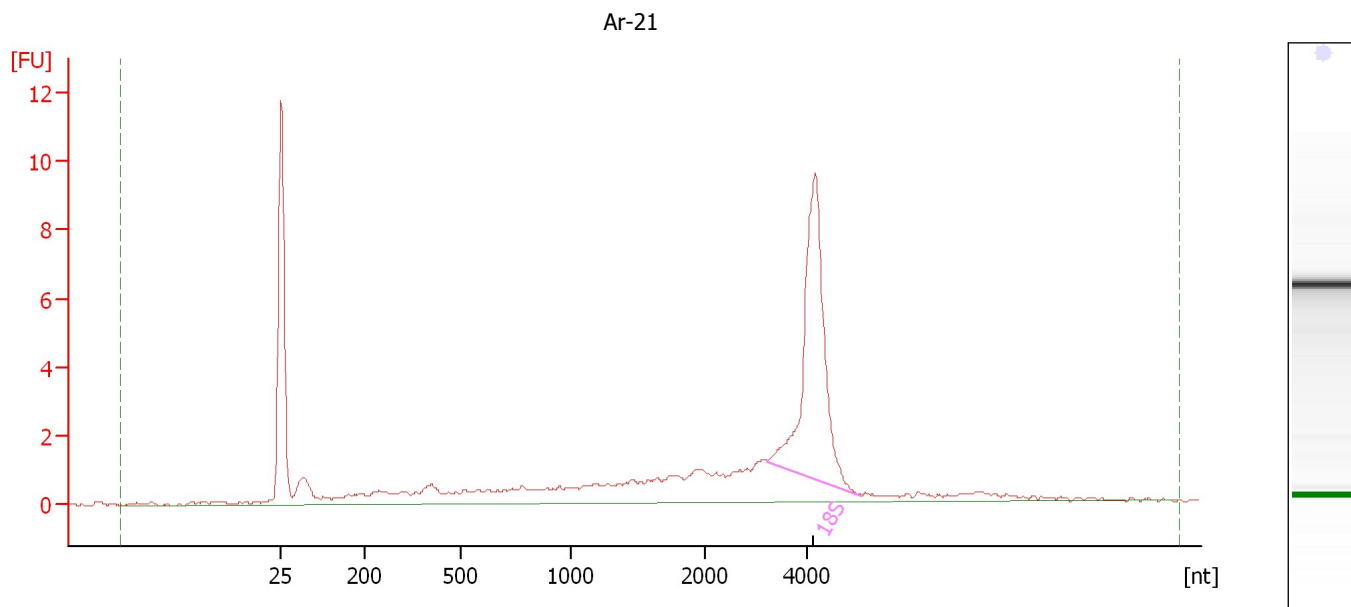
RNA Area:	98.2	RNA Integrity Number (RIN):	9.3 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	65 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 9.30

Fragment table for sample 6 : Ar-17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,677	5,148	66.7	68.0
28S	6,919	8,154	2.3	2.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : Ar-21**

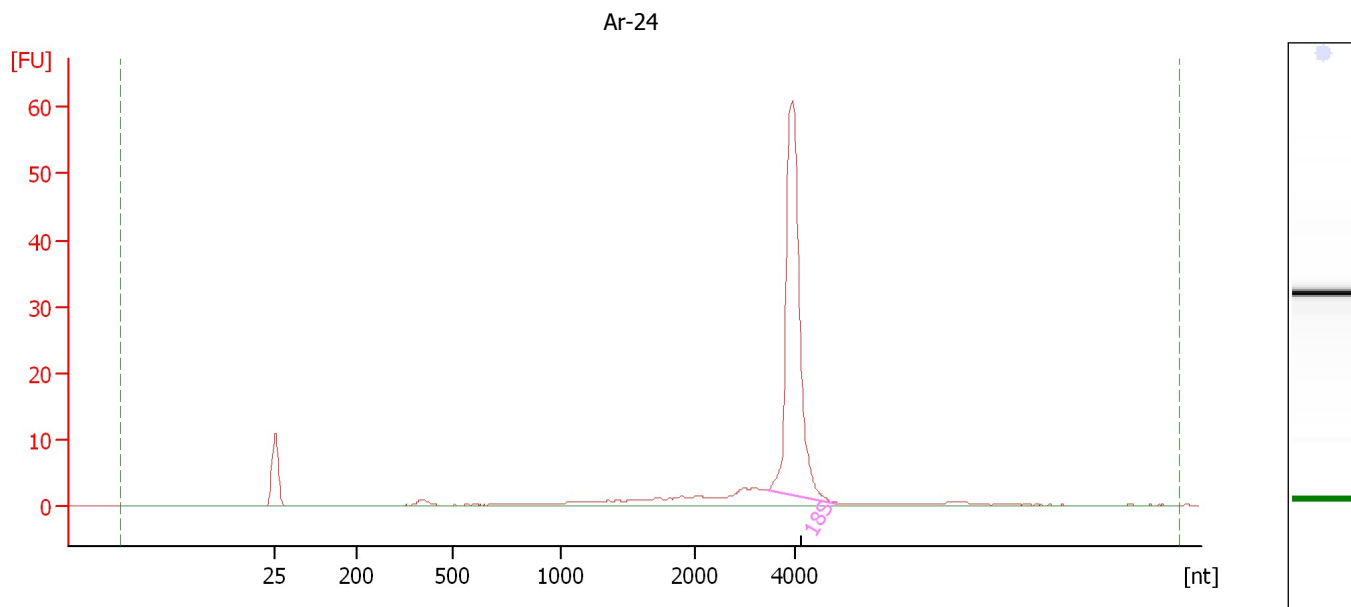
RNA Area:	58.0	RNA Integrity Number (RIN):	7.4 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	38 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 7.40

Fragment table for sample 7 : Ar-21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,214	5,046	18.4	31.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : Ar-24**

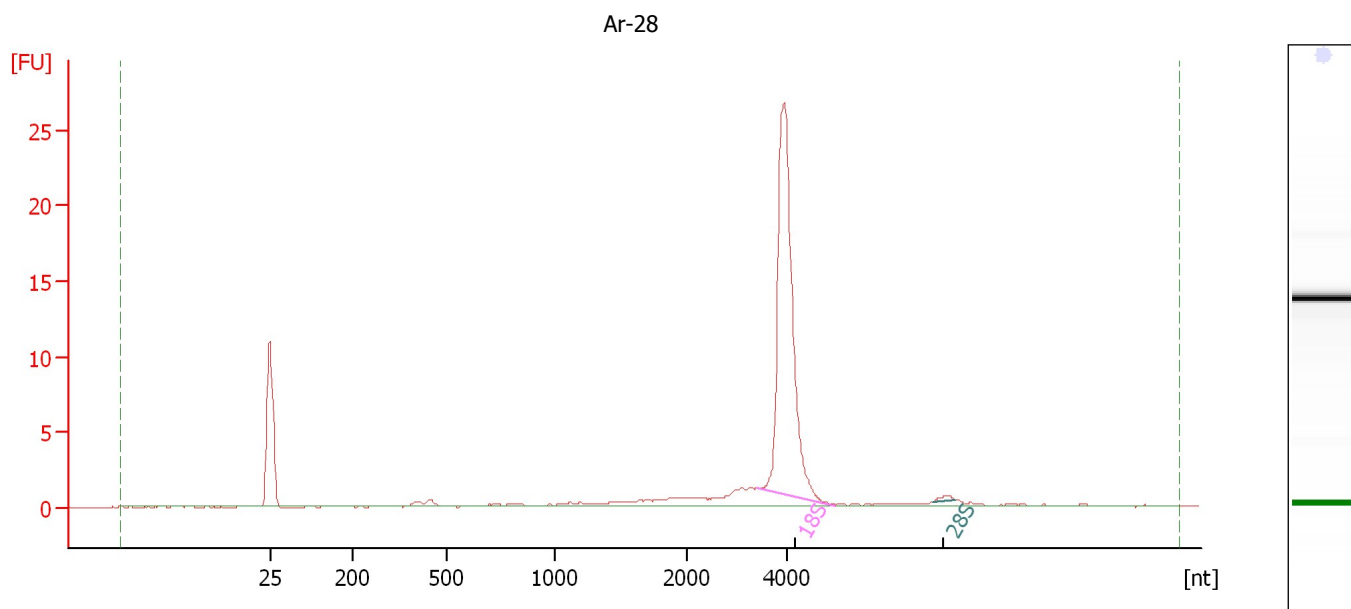
RNA Area:	123.8	RNA Integrity Number (RIN):	8.8 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	82 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.80

Fragment table for sample 8 : Ar-24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,447	4,836	84.1	67.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : Ar-28**

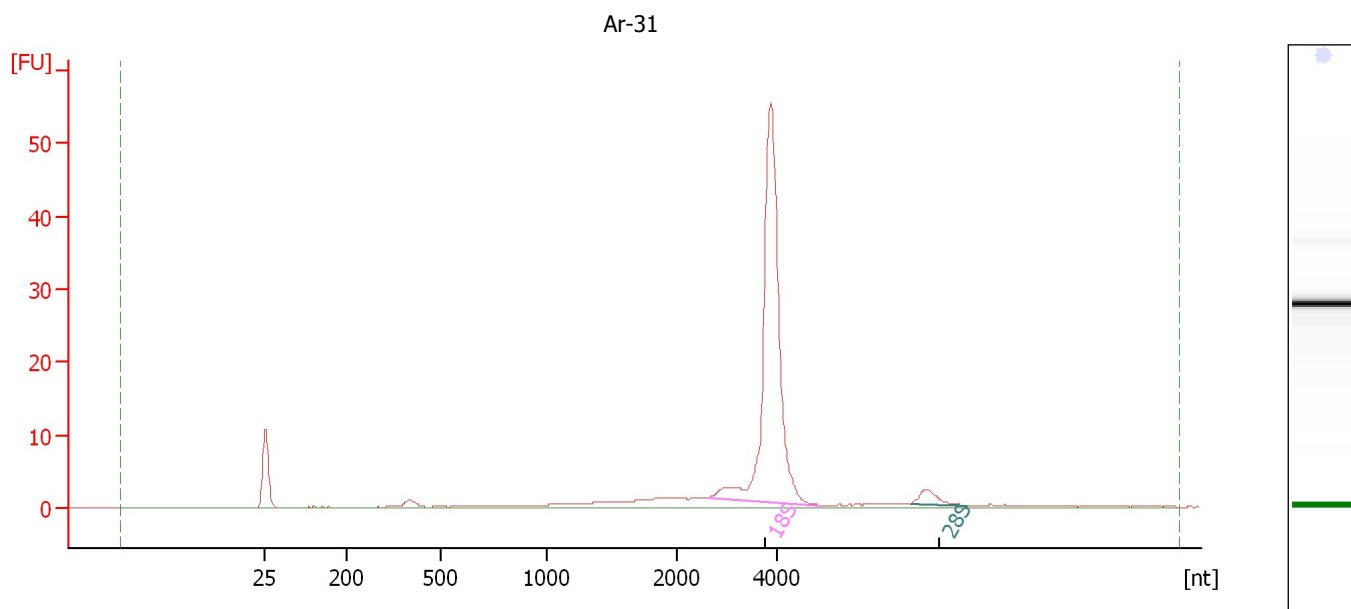
RNA Area:	61.2	RNA Integrity Number (RIN):	9.1 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	40 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 9.10

Fragment table for sample 9 : Ar-28

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,414	4,962	41.1	67.3
28S	6,892	7,338	0.4	0.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 10 : Ar-31**

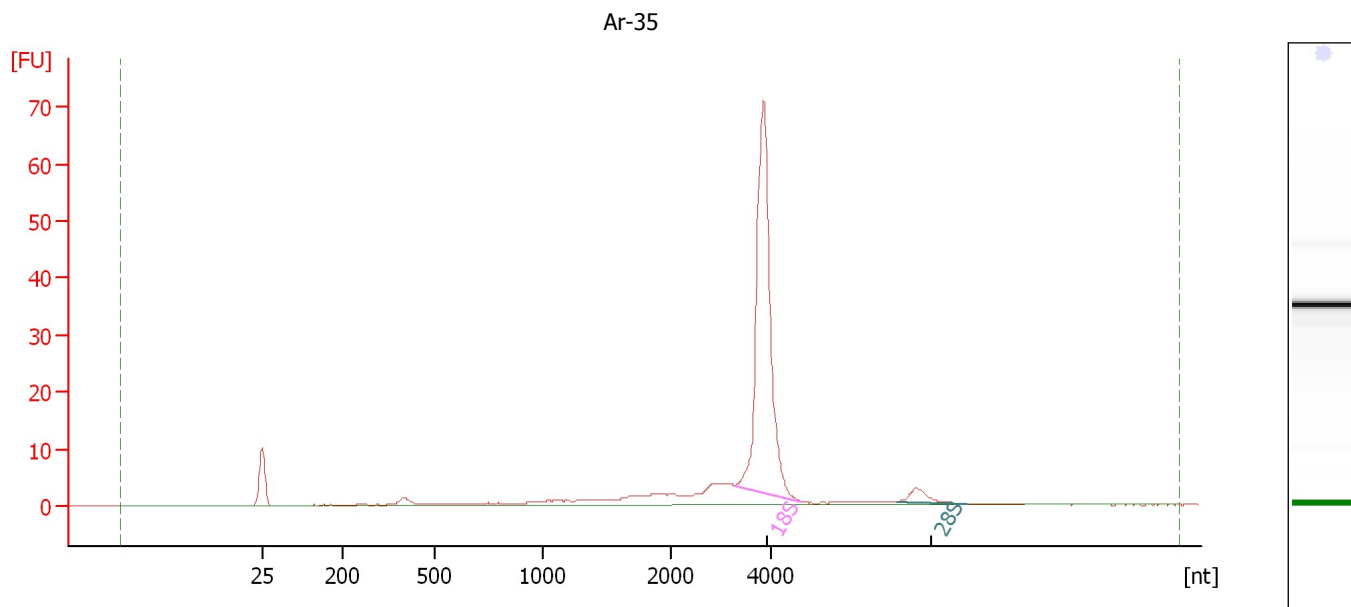
RNA Area:	132.8	RNA Integrity Number (RIN):	9.5 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	87 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #e0e0ff; width: 50px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 9.50

Fragment table for sample 10 : Ar-31

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,628	4,898	91.9	69.2
28S	6,696	7,810	3.4	2.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 11 : Ar-35**

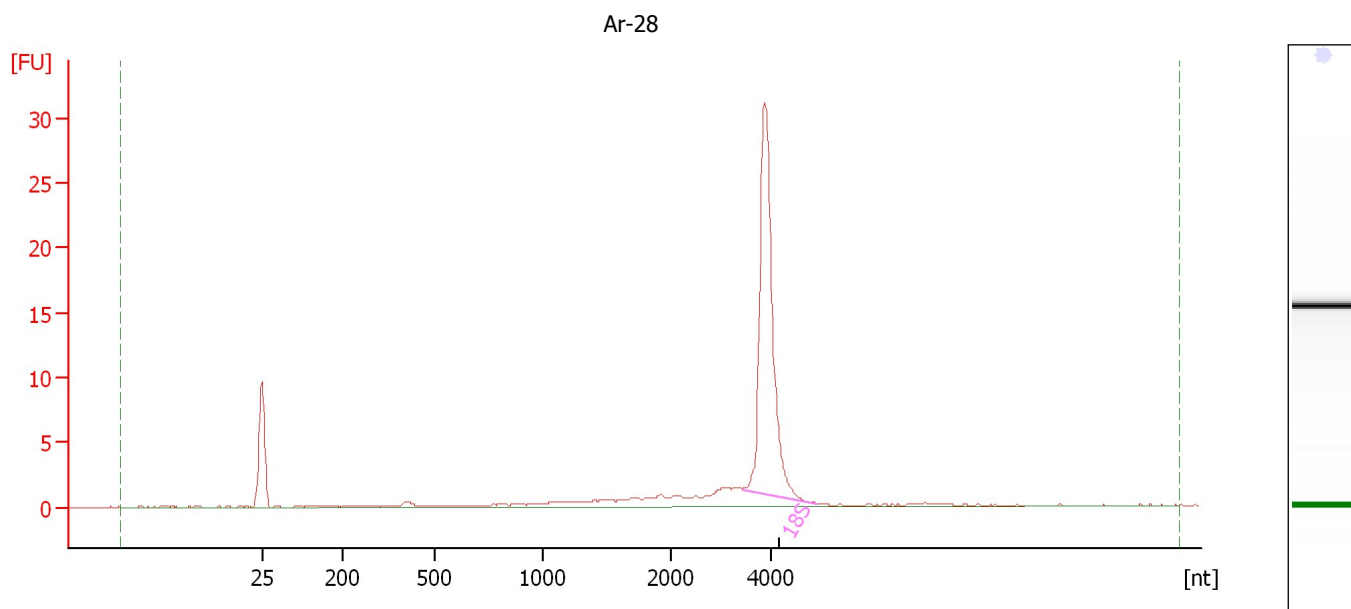
RNA Area:	171.1	RNA Integrity Number (RIN):	8.5 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	113 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.50

Fragment table for sample 11 : Ar-35

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,260	4,617	101.4	59.2
28S	6,556	7,934	4.2	2.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Electropherogram Summary Continued ...**Overall Results for sample 12 : Ar-28**

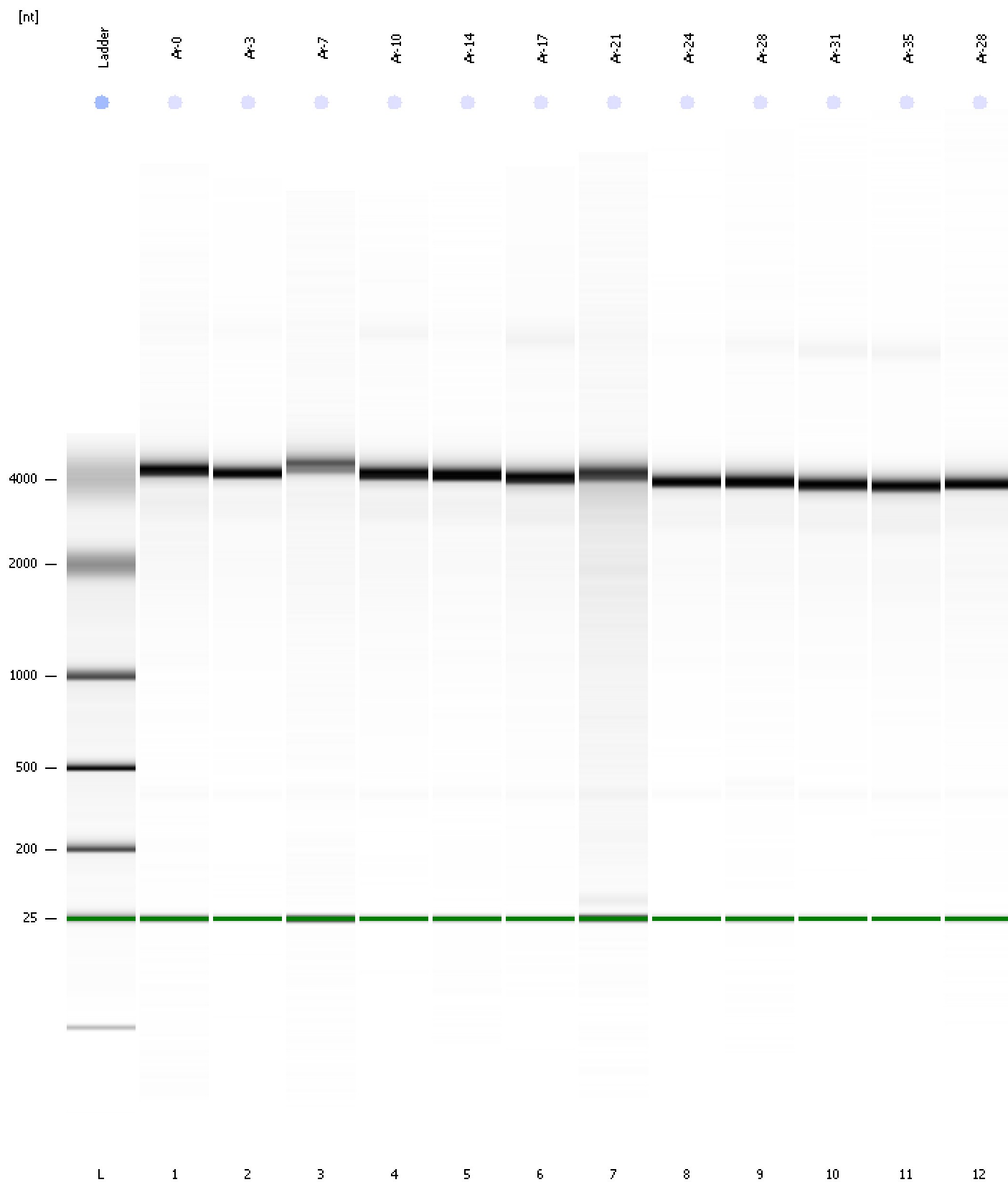
RNA Area:	65.5	RNA Integrity Number (RIN):	8.6 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	43 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.60

Fragment table for sample 12 : Ar-28

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,433	4,940	42.2	64.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad

Created: 4/5/2013 4:03:27 PM
Modified: 4/5/2013 4:32:39 PM

Gel Image

Assay Class: Eukaryote Total RNA Nano Created: 4/5/2013 4:03:27 PM
 Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_2.xad Modified: 4/5/2013 4:32:39 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time Stamp	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		4/5/2013 4:26:34 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2013-04-05\040513_Eukaryote Total RNA Nano_DE24802438_2013-04-05_16-03-27.xad)		Instrument	Run		4/5/2013 4:03:33 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Product Number : G2938B		Instrument	Run		4/5/2013 4:03:33 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Name :		Instrument	Run		4/5/2013 4:03:33 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Vendor : Agilent Technologies		Instrument	Run		4/5/2013 4:03:33 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Serial# : DE24802438		Instrument	Run		4/5/2013 4:03:33 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Firmware : C.01.069		Instrument	Run		4/5/2013 4:03:33 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Cartridge : Electrode		Instrument	Run		4/5/2013 4:03:33 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03