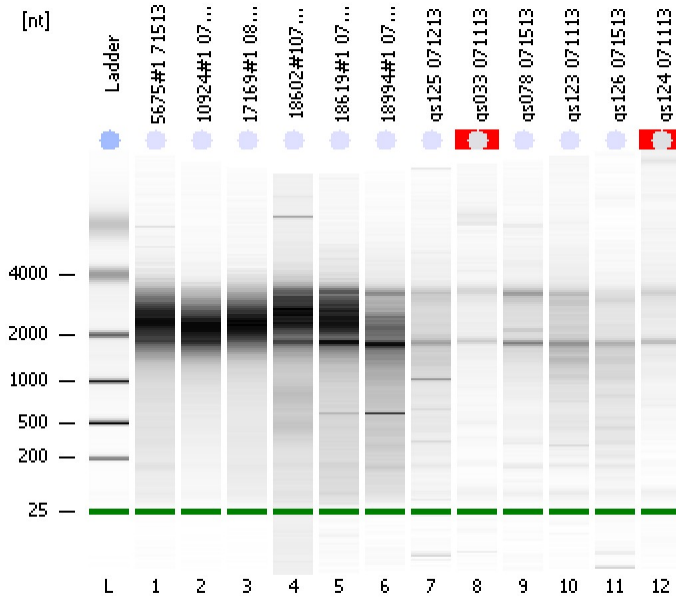


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electrophoresis File Run Summary



Instrument Information:

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

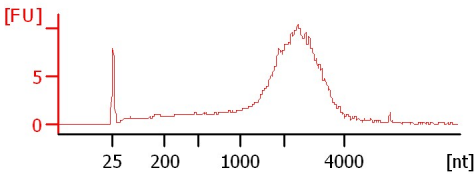
Assay Information:

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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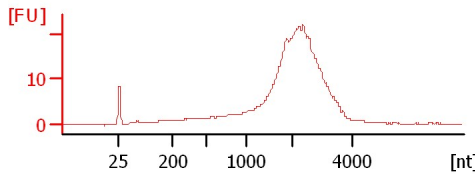
Chip Information:

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

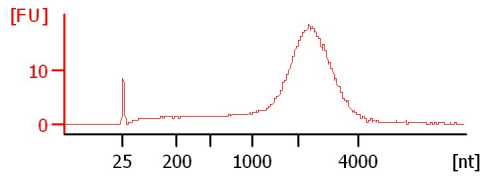
5675#1 71513
RIN: 2.40



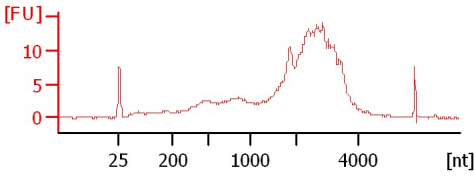
10924#1 071613
RIN: 2.40



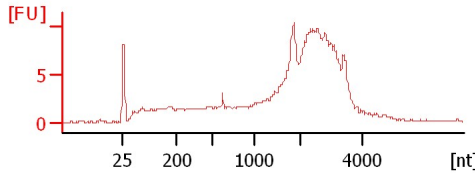
17169#1 080513
RIN: 2.60



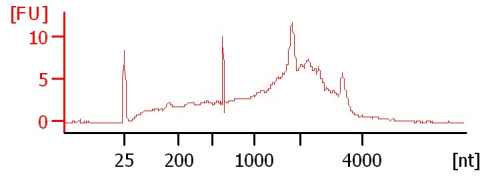
18602#1071513
RIN: 2.80



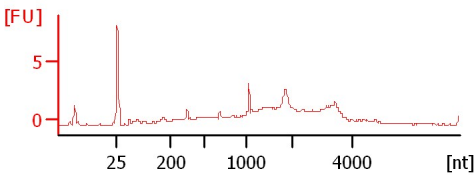
18619#1 071513
RIN: 3.30



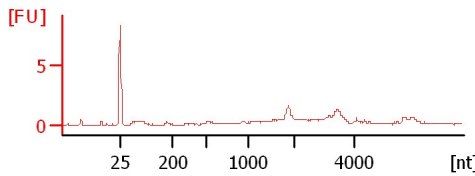
18994#1 071613
RIN: 3.90



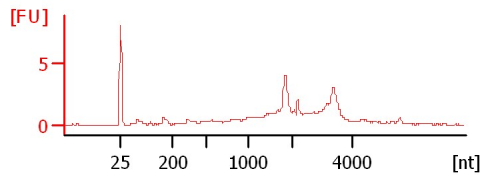
gs125 071213
RIN: 5.10



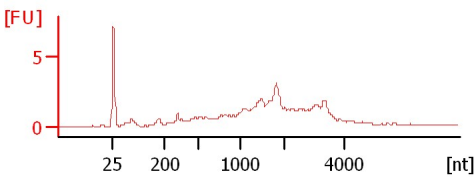
gs033 071113
RIN N/A



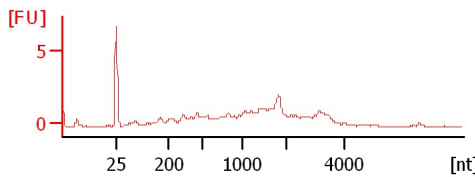
gs078 071513
RIN: 6.30



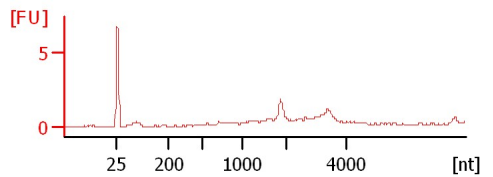
gs123 071113
RIN: 3.50



gs126 071513
RIN: 3.90



gs124 071113
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
5675#1 71513		✓	RIN: 2.40	
10924#1 071613		✓	RIN: 2.40	
17169#1 080513		✓	RIN: 2.60	
18602#1071513		✓	RIN: 2.80	
18619#1 071513		✓	RIN: 3.30	
18994#1 071613		✓	RIN: 3.90	
gs125 071213		✓	RIN: 5.10	
gs033 071113		✓	RIN N/A	
gs078 071513		✓	RIN: 6.30	
gs123 071113		✓	RIN: 3.50	
gs126 071513		✓	RIN: 3.90	
gs124 071113		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 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

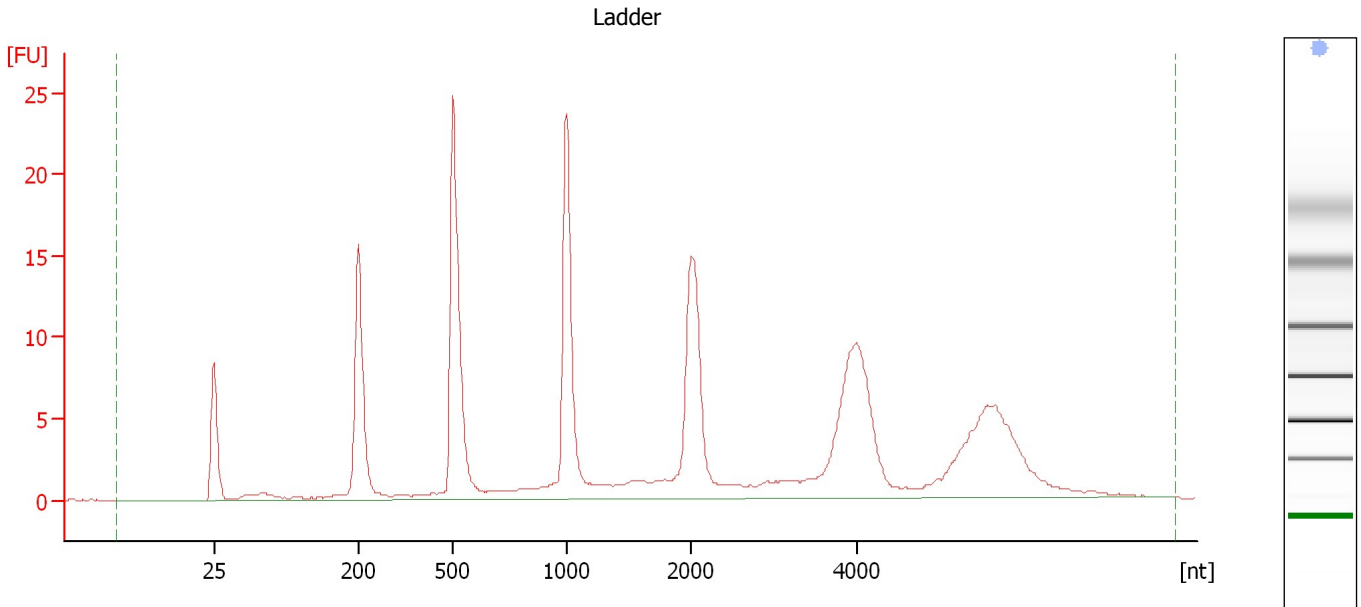
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary



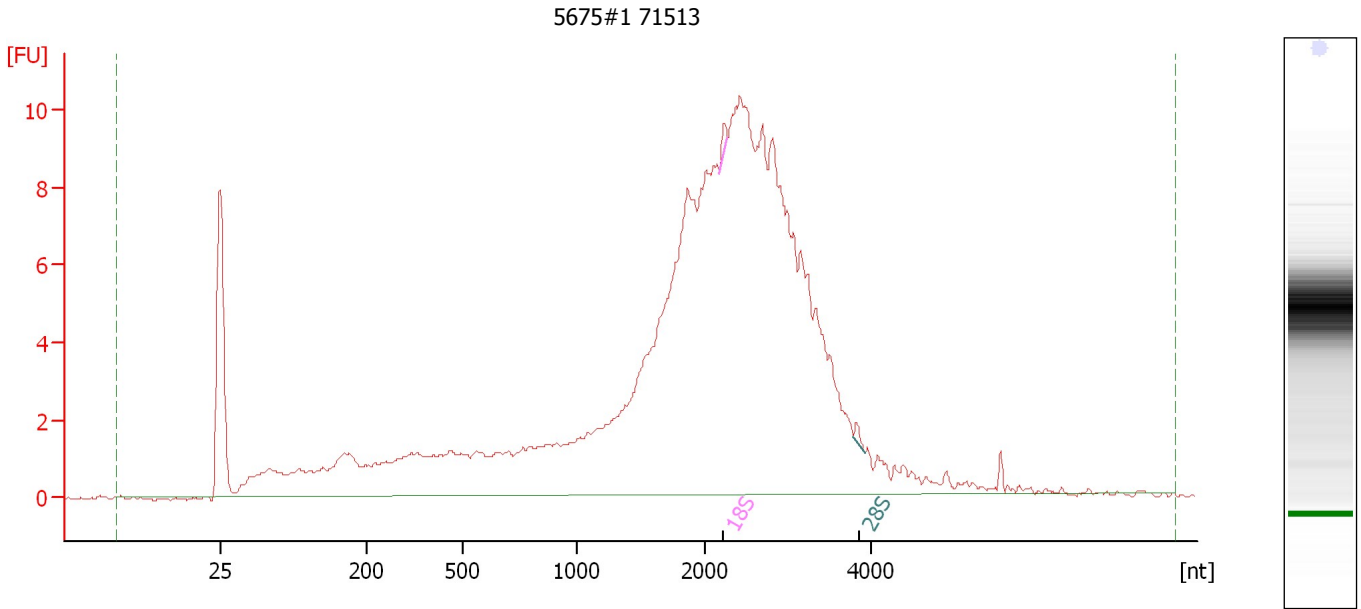
Overall Results for Ladder

RNA Area:	202.1	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 5675#1 71513

RNA Area: 198.6 RNA Integrity Number (RIN): 2.4 (B.02.08)
RNA Concentration: 147 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 2.40

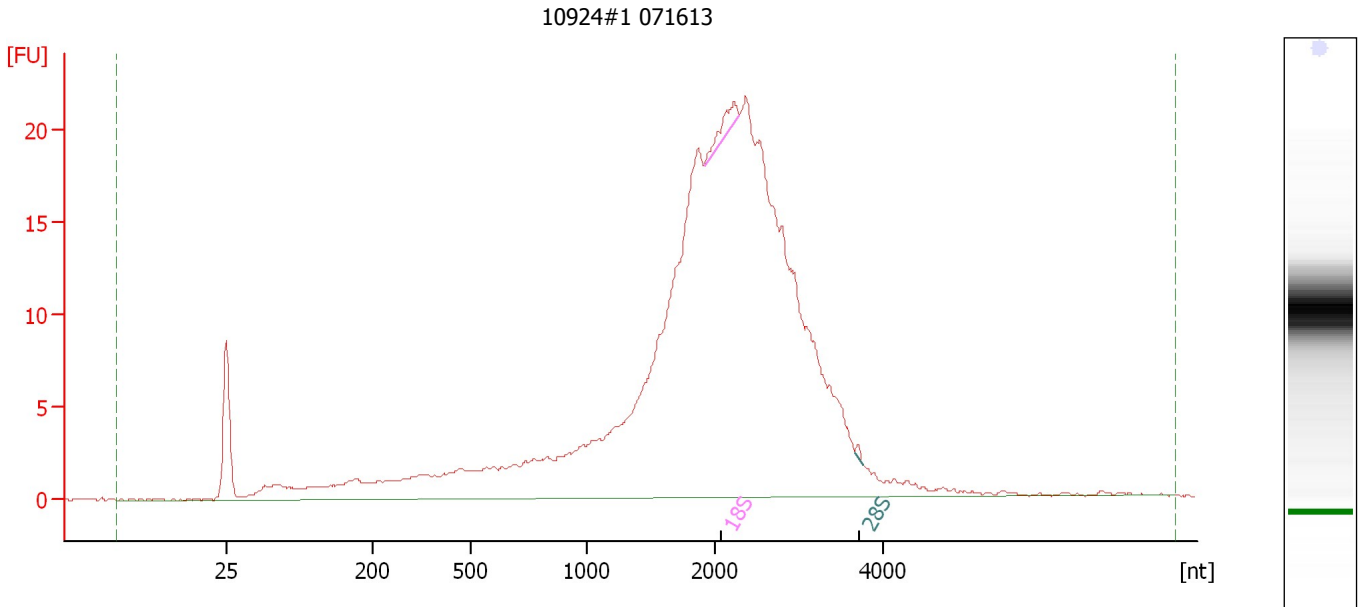
Fragment table for sample 1 : 5675#1 71513

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,185	2,274	0.3	0.2
28S	3,788	3,929	0.3	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 10924#1 071613

RNA Area: 358.8 RNA Integrity Number (RIN): 2.4 (B.02.08)
RNA Concentration: 266 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 2.40

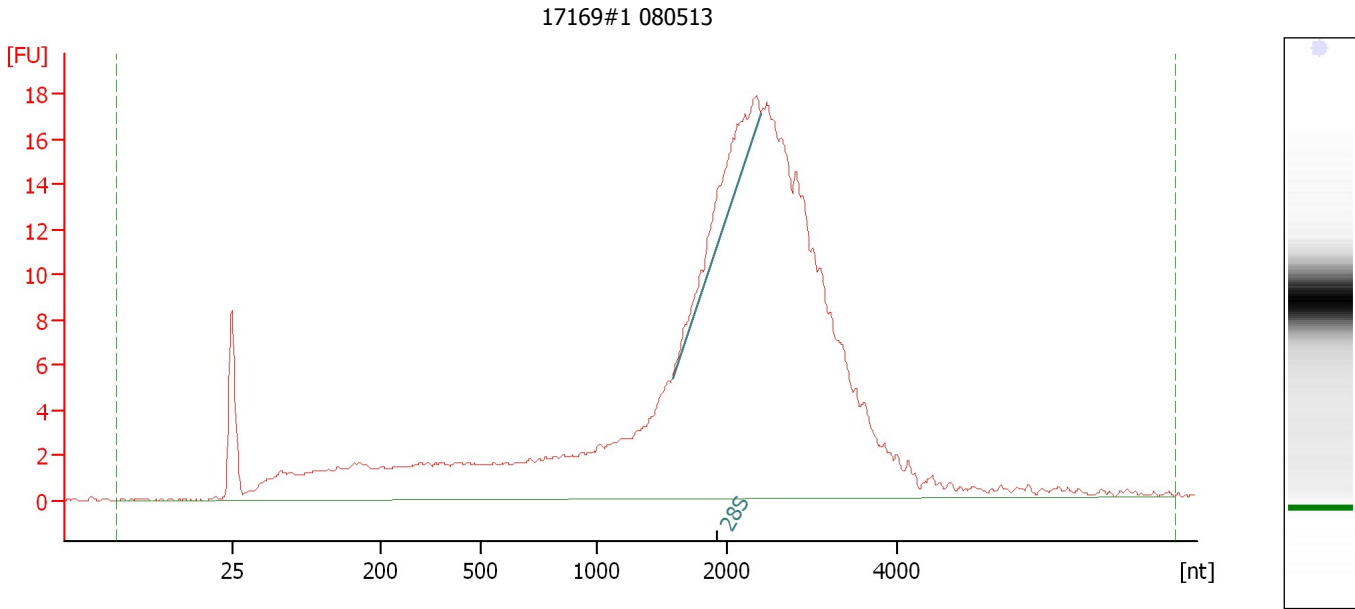
Fragment table for sample 2 : 10924#1 071613

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,922	2,289	2.4	0.7
28S	3,660	3,762	0.3	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 17169#1 080513

RNA Area: 324.6 RNA Integrity Number (RIN): 2.6 (B.02.08)
RNA Concentration: 241 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.60

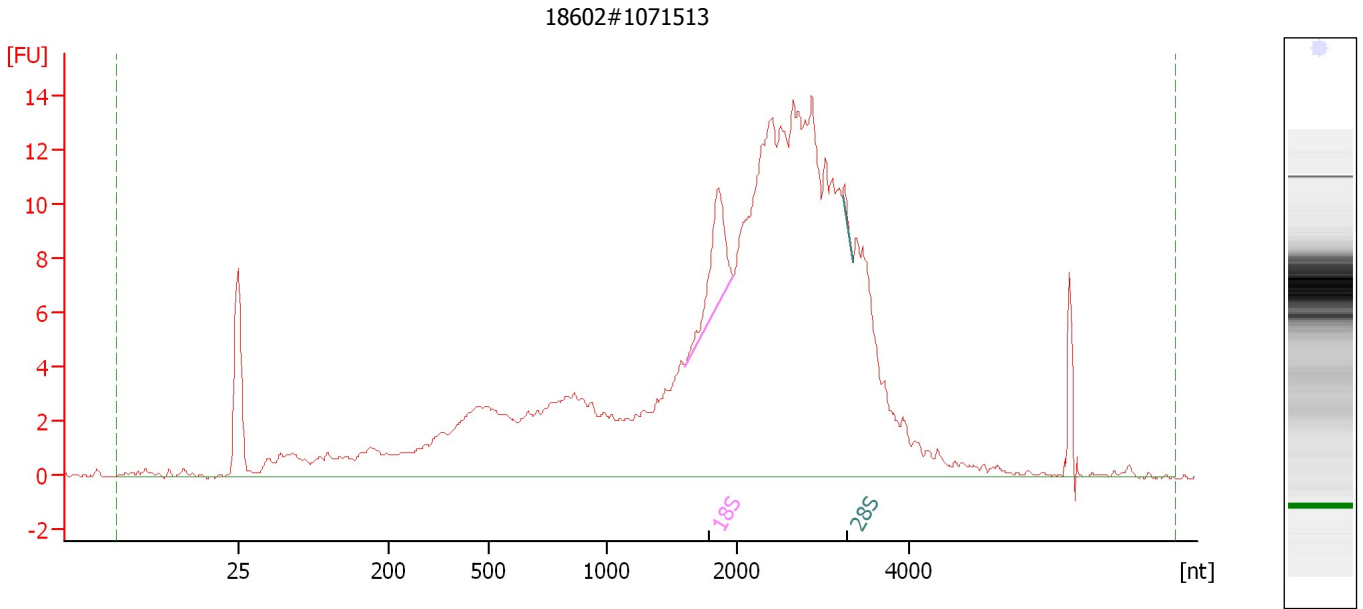
Fragment table for sample 3 : 17169#1 080513

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,580	2,391	11.7	3.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 18602#1071513

RNA Area: 287.2 RNA Integrity Number (RIN): 2.8 (B.02.08)
RNA Concentration: 213 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 2.80

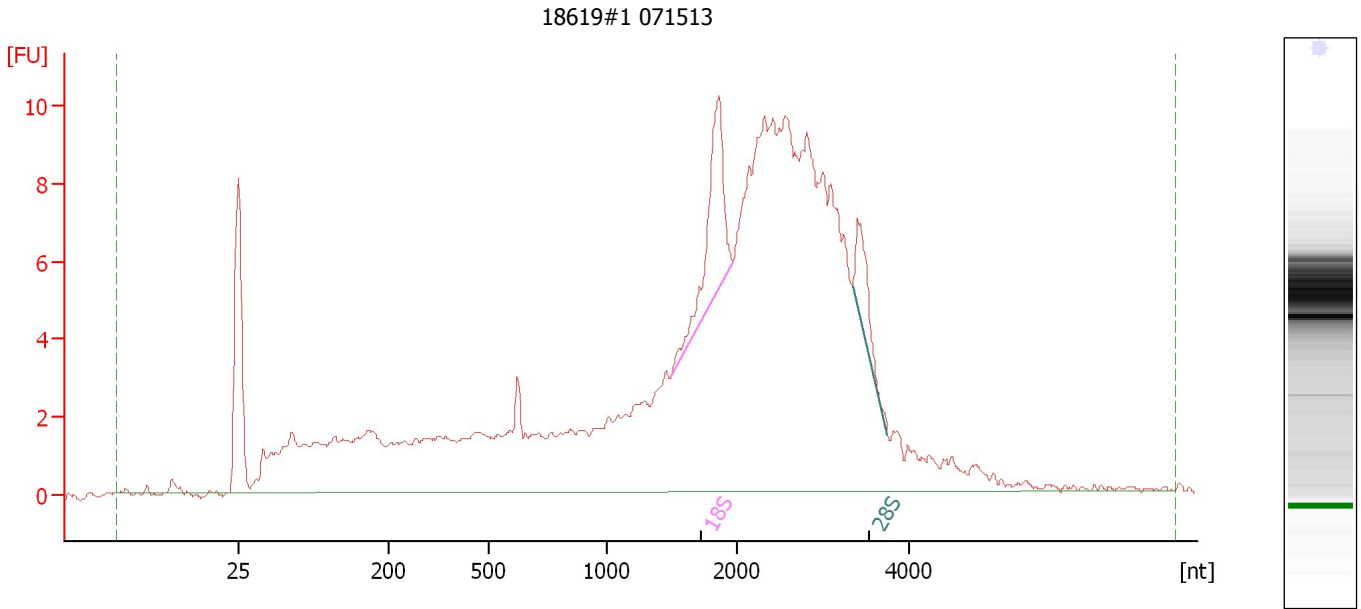
Fragment table for sample 4 : 18602#1071513

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,971	7.2	2.5
28S	3,219	3,335	0.5	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 18619#1 071513

RNA Area: 230.3 RNA Integrity Number (RIN): 3.3 (B.02.08)
RNA Concentration: 171 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 3.30

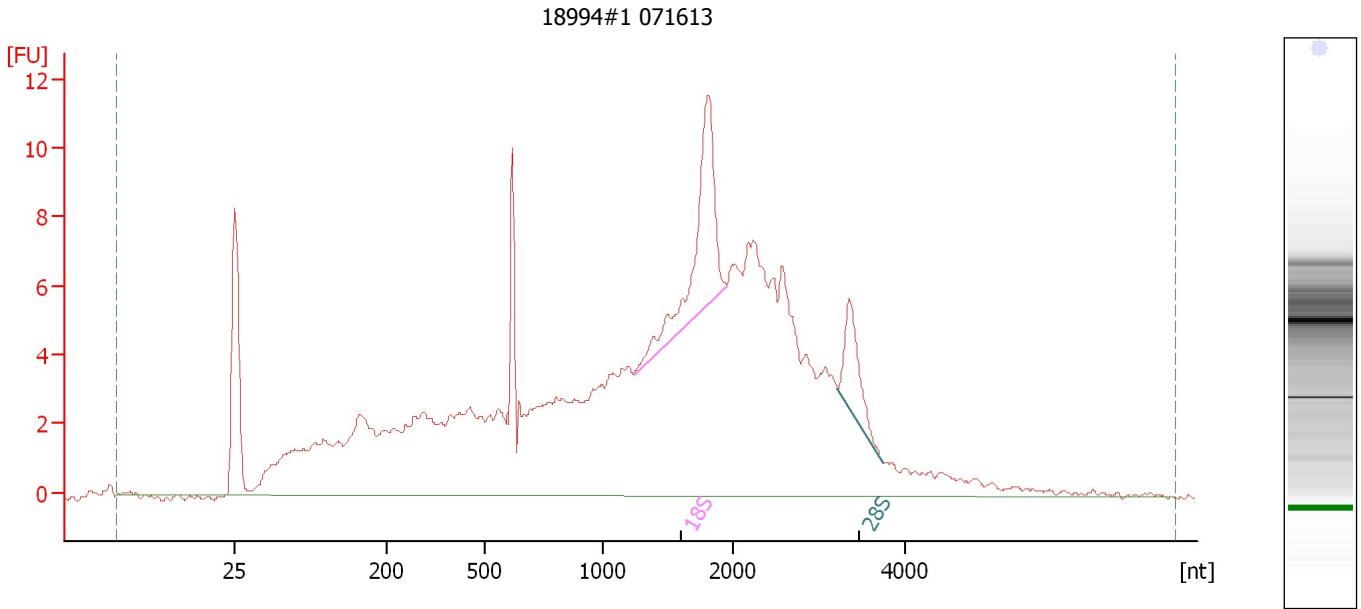
Fragment table for sample 5 : 18619#1 071513

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,497	1,963	9.0	3.9
28S	3,335	3,745	3.1	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 18994#1 071613

RNA Area: 247.6 RNA Integrity Number (RIN): 3.9 (B.02.08)
RNA Concentration: 184 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 3.90

Fragment table for sample 6 : 18994#1 071613

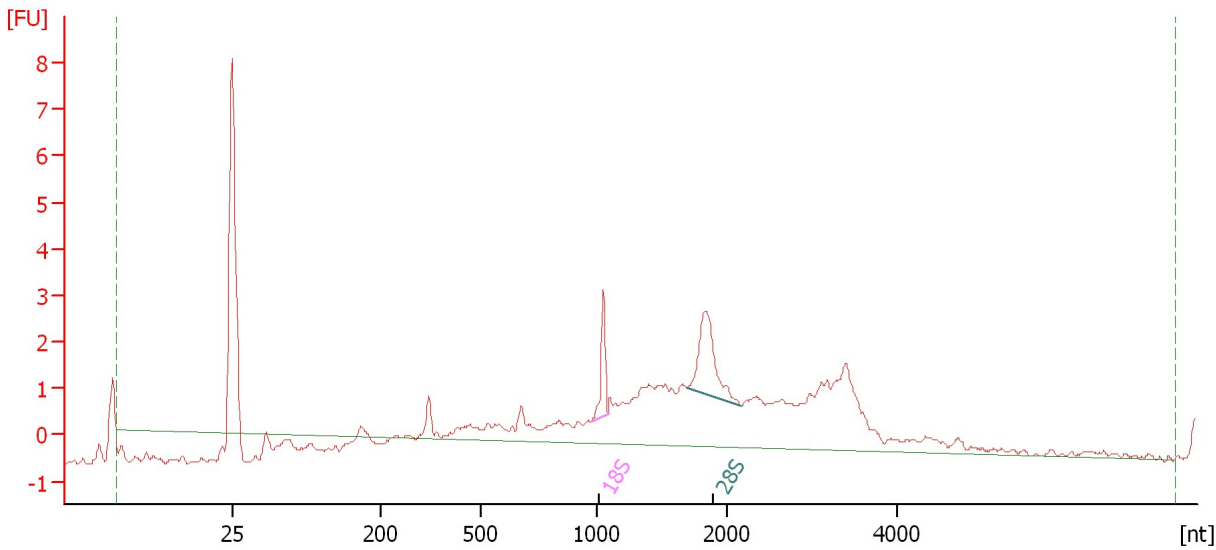
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,240	1,945	13.0	5.3
28S	3,214	3,750	4.5	1.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...

gs125 071213



Overall Results for sample 7 : gs125 071213

RNA Area: 44.7 RNA Integrity Number (RIN): 5.1 (B.02.08)
RNA Concentration: 33 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 5.10

Fragment table for sample 7 : gs125 071213

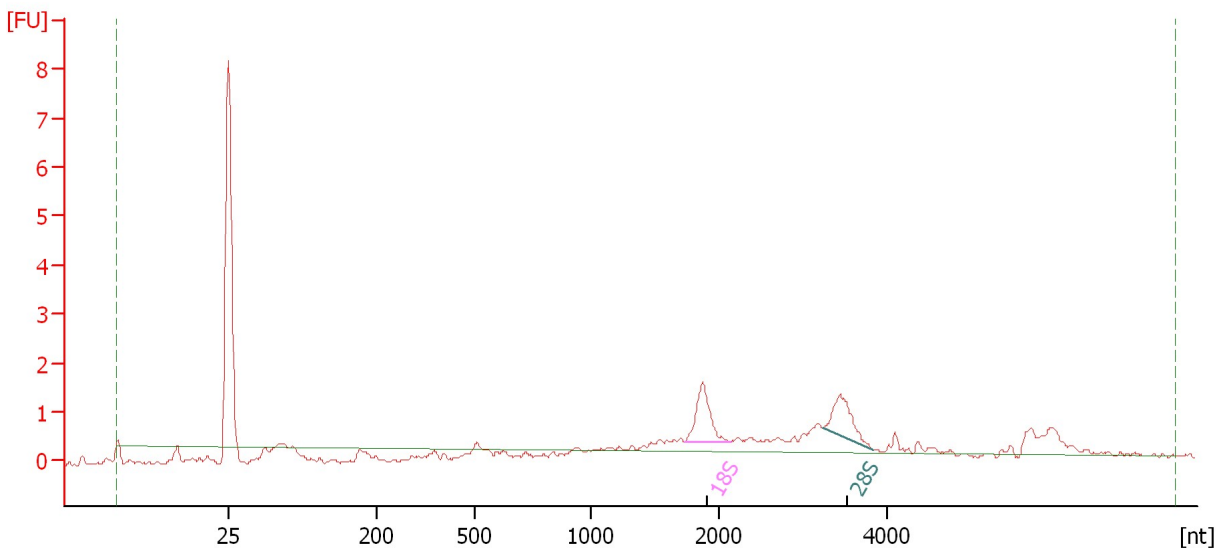
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	969	1,085	1.5	3.5
28S	1,687	2,165	3.3	7.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...

gs033 071113



Overall Results for sample 8 : gs033 071113

RNA Area: 11.5 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 9 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN N/A

Fragment table for sample 8 : gs033 071113

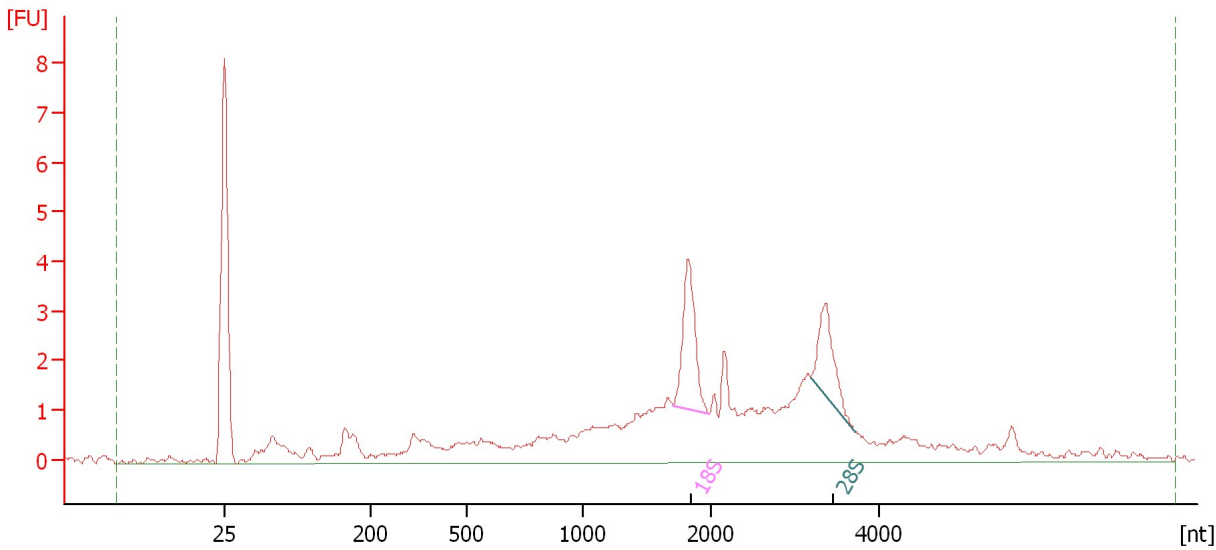
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,741	2,138	1.9	16.5
28S	3,238	3,819	1.6	13.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...

gs078 071513



Overall Results for sample 9 : gs078 071513

RNA Area: 59.6 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 44 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 6.30

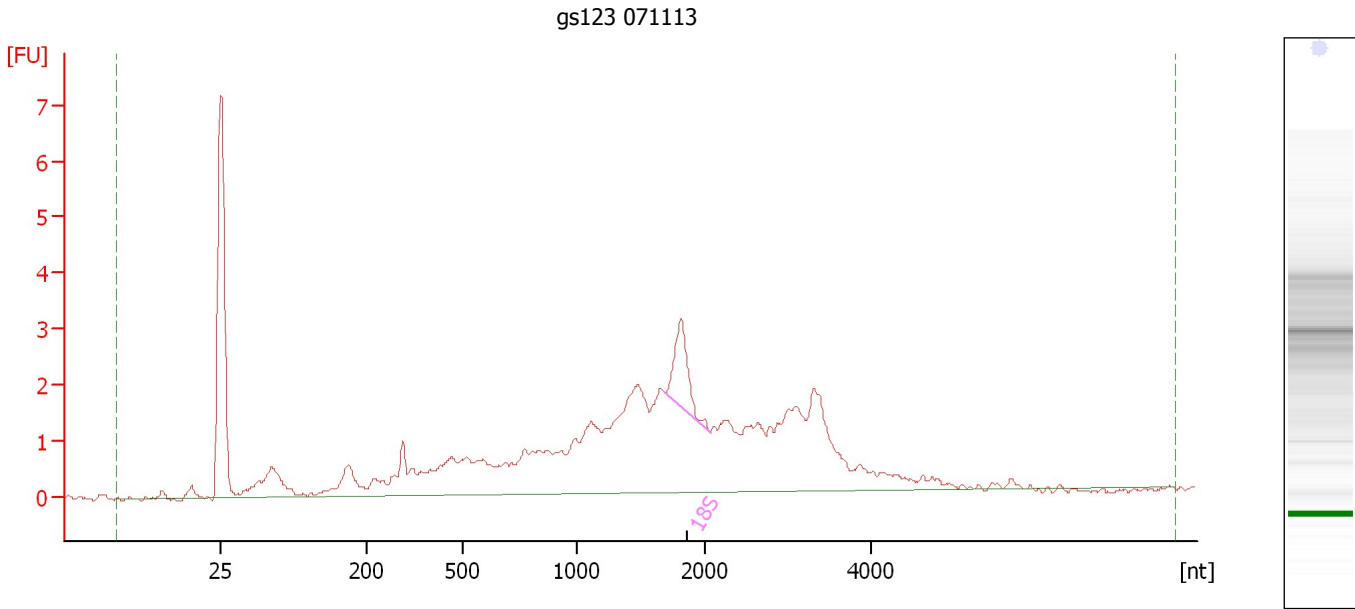
Fragment table for sample 9 : gs078 071513

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,711	1,988	4.3	7.2
28S	3,193	3,716	2.9	4.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : gs123 071113

RNA Area:	61.3	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	45 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.50

Fragment table for sample 10 : gs123 071113

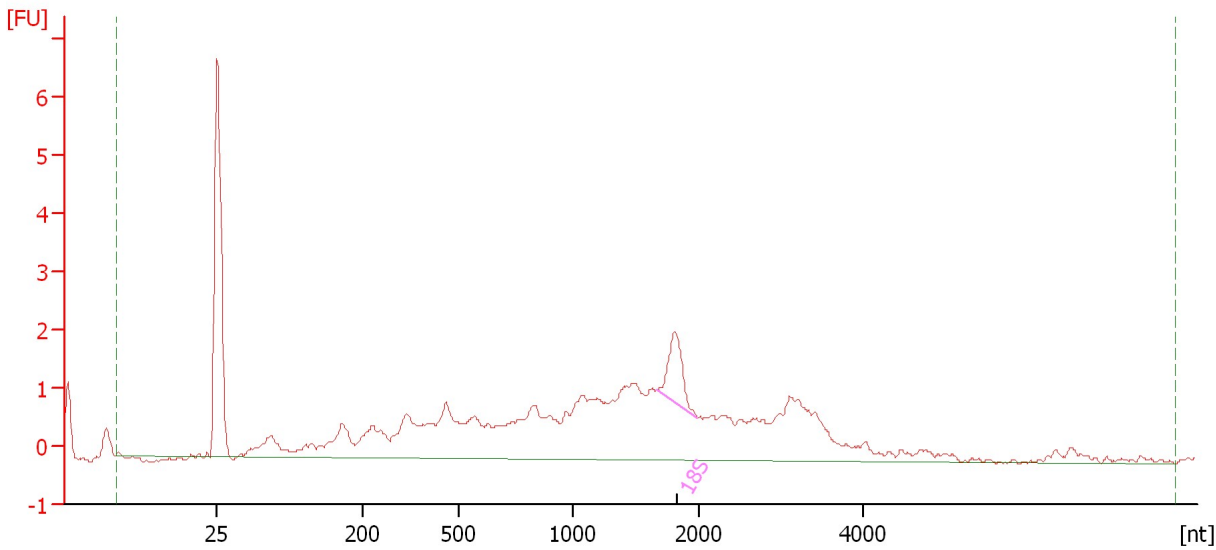
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,691	2,069	2.4	4.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...

gs126 071513



Overall Results for sample 11 : gs126 071513

RNA Area:	49.4	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	37 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.90

Fragment table for sample 11 : gs126 071513

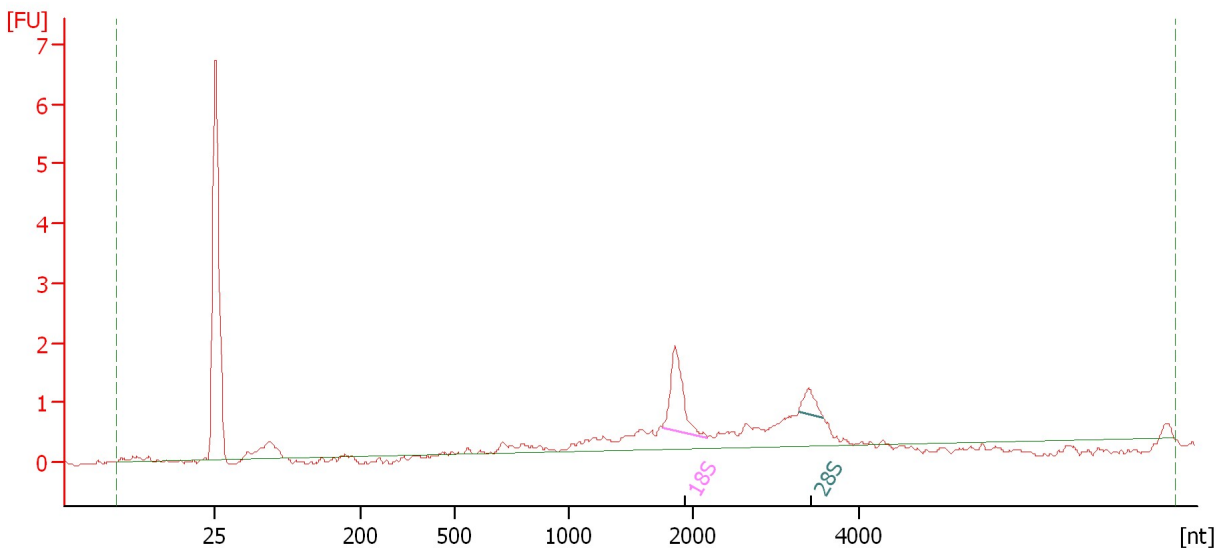
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,679	1,993	1.9	3.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Electropherogram Summary Continued ...

gs124 071113



Overall Results for sample 12 : gs124 071113

RNA Area: 13.0 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 10 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN N/A

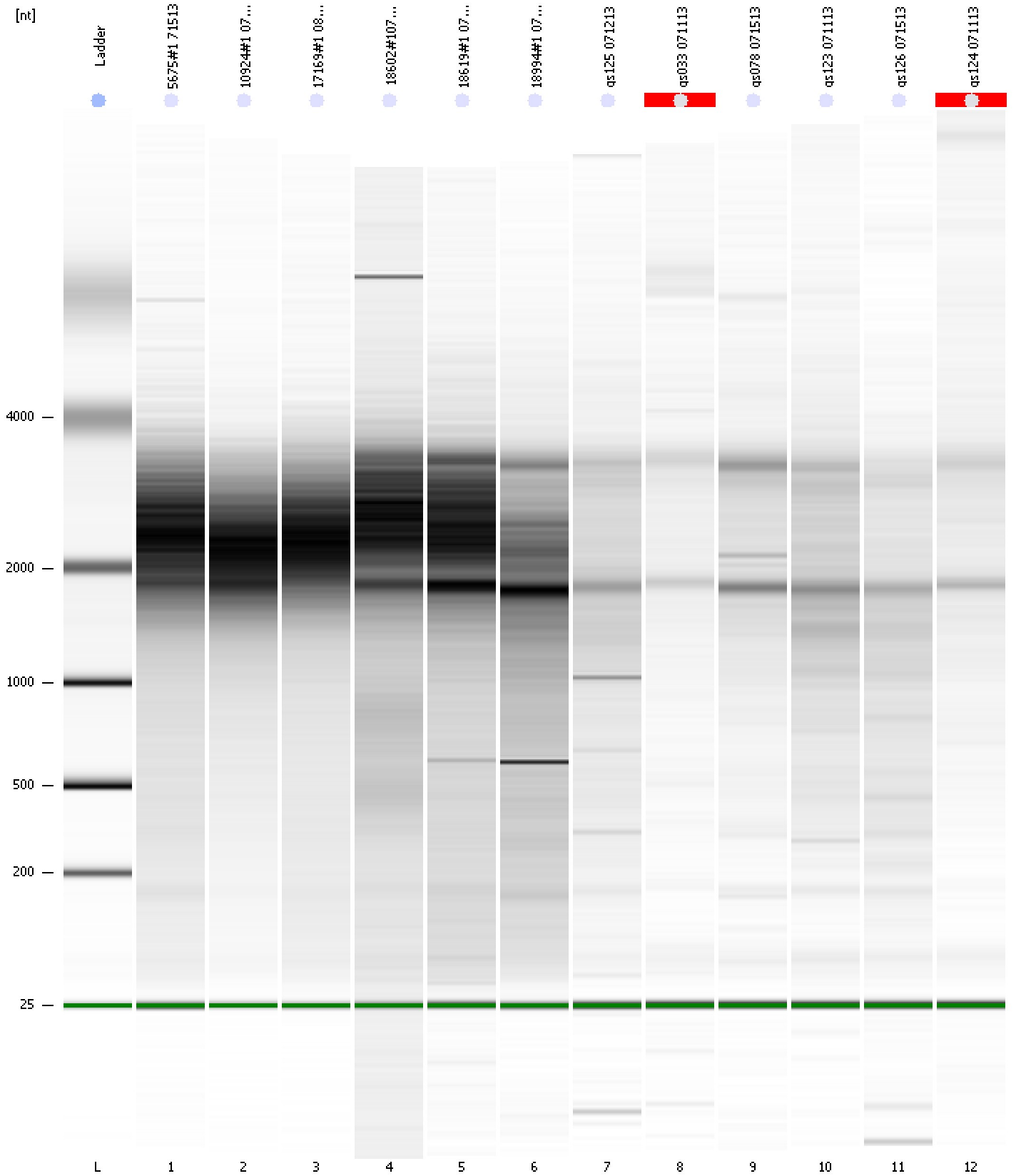
Fragment table for sample 12 : gs124 071113

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	2,169	2.0	15.1
28S	3,271	3,569	0.5	4.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Gel Image

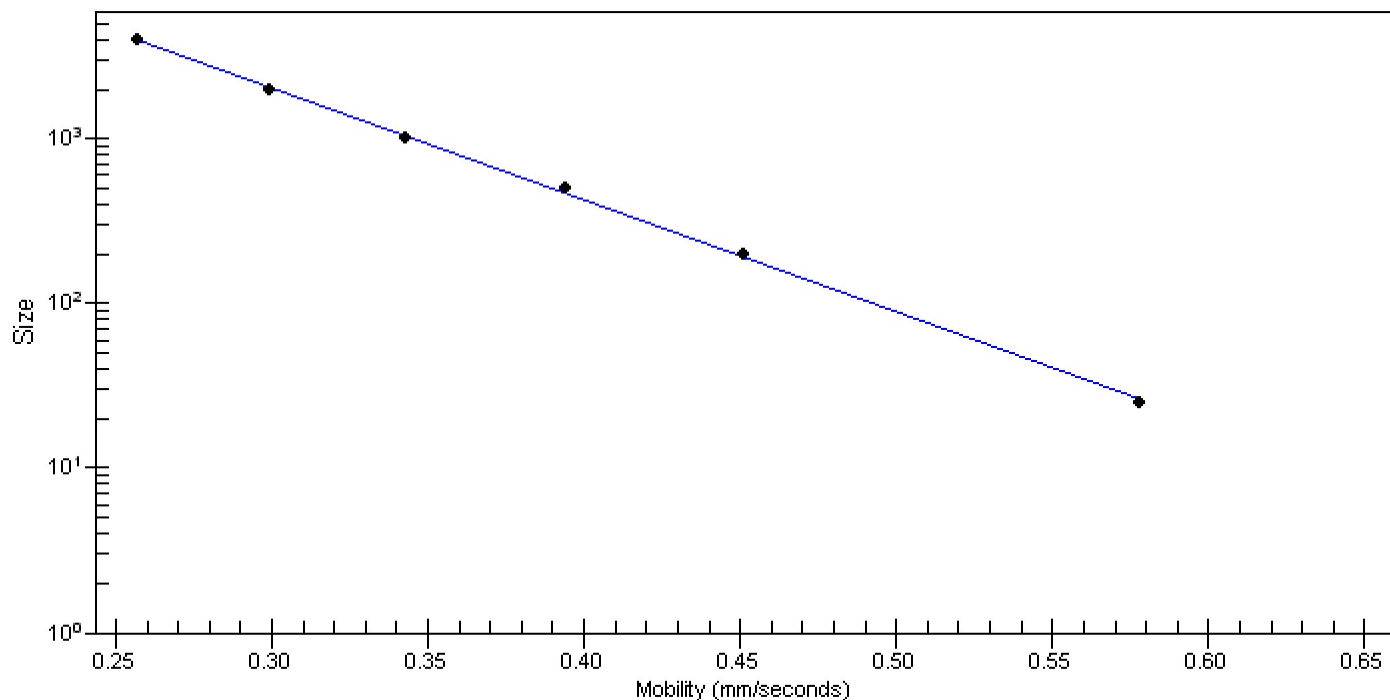


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
Modified: 4/22/2016 10:25:45 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad

Created: 4/22/2016 10:01:56 AM
 Modified: 4/22/2016 10:25:45 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		4/22/2016 10:25:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-22\2016-04-22_001.xad)		Instrument	Run		4/22/2016 10:02:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/22/2016 10:02:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/22/2016 10:02:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/22/2016 10:02:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/22/2016 10:02:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/22/2016 10:02:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/22/2016 10:02:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1