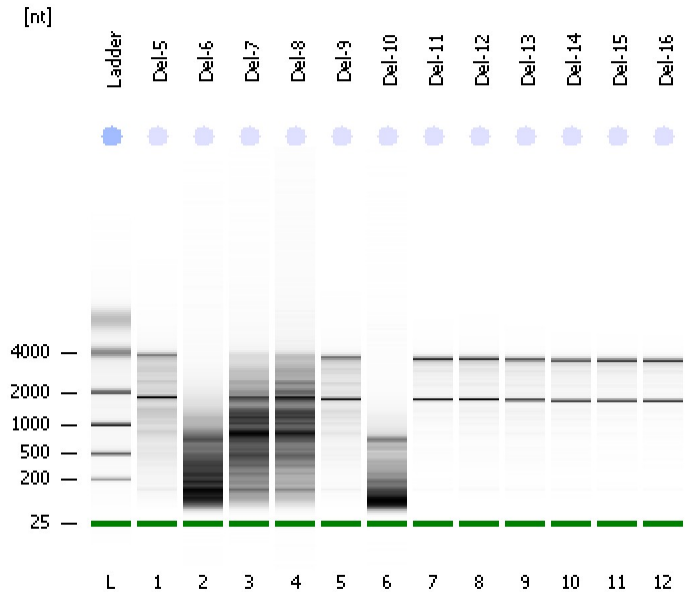


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electrophoresis File Run Summary



Instrument Information:

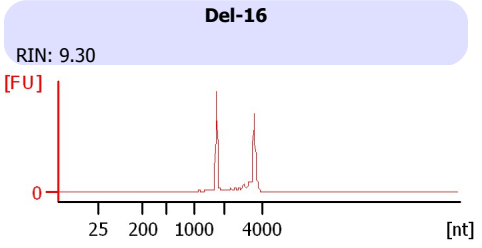
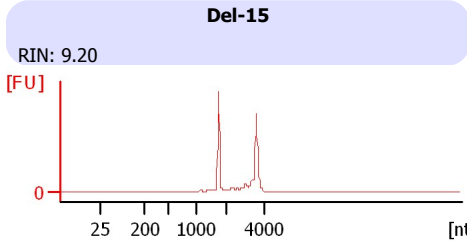
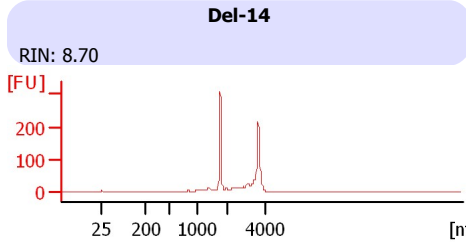
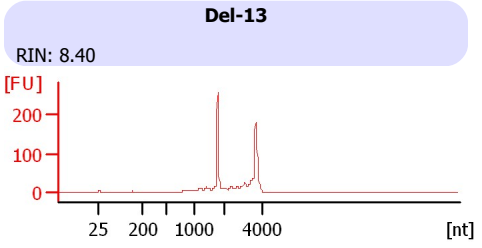
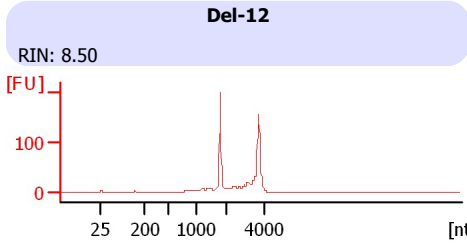
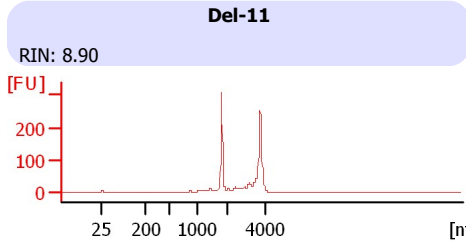
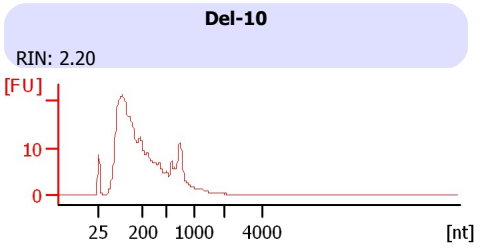
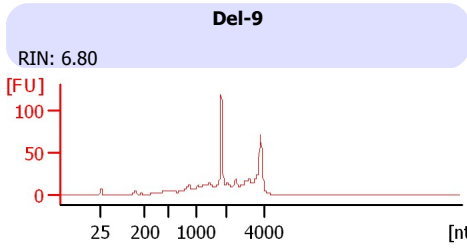
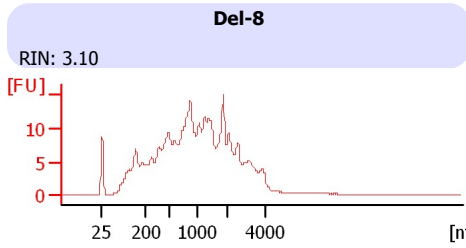
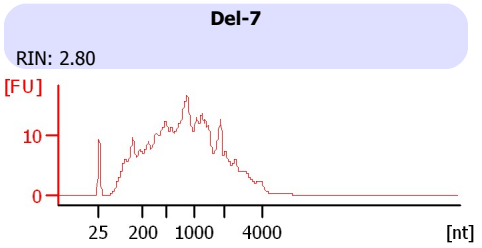
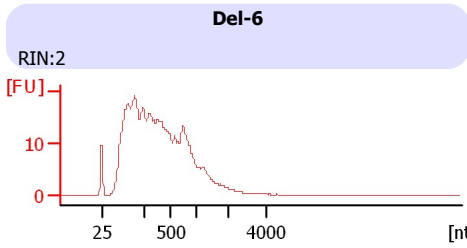
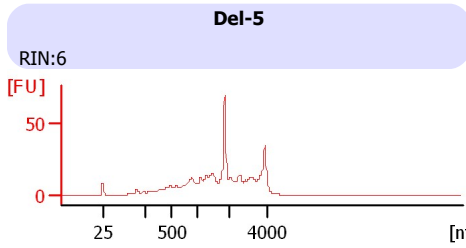
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
 Modified: 11/14/2012 12:54:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Del-5		✓	RIN:6	
Del-6		✓	RIN:2	
Del-7		✓	RIN: 2.80	
Del-8		✓	RIN: 3.10	
Del-9		✓	RIN: 6.80	
Del-10		✓	RIN: 2.20	
Del-11		✓	RIN: 8.90	
Del-12		✓	RIN: 8.50	
Del-13		✓	RIN: 8.40	
Del-14		✓	RIN: 8.70	
Del-15		✓	RIN: 9.20	
Del-16		✓	RIN: 9.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 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

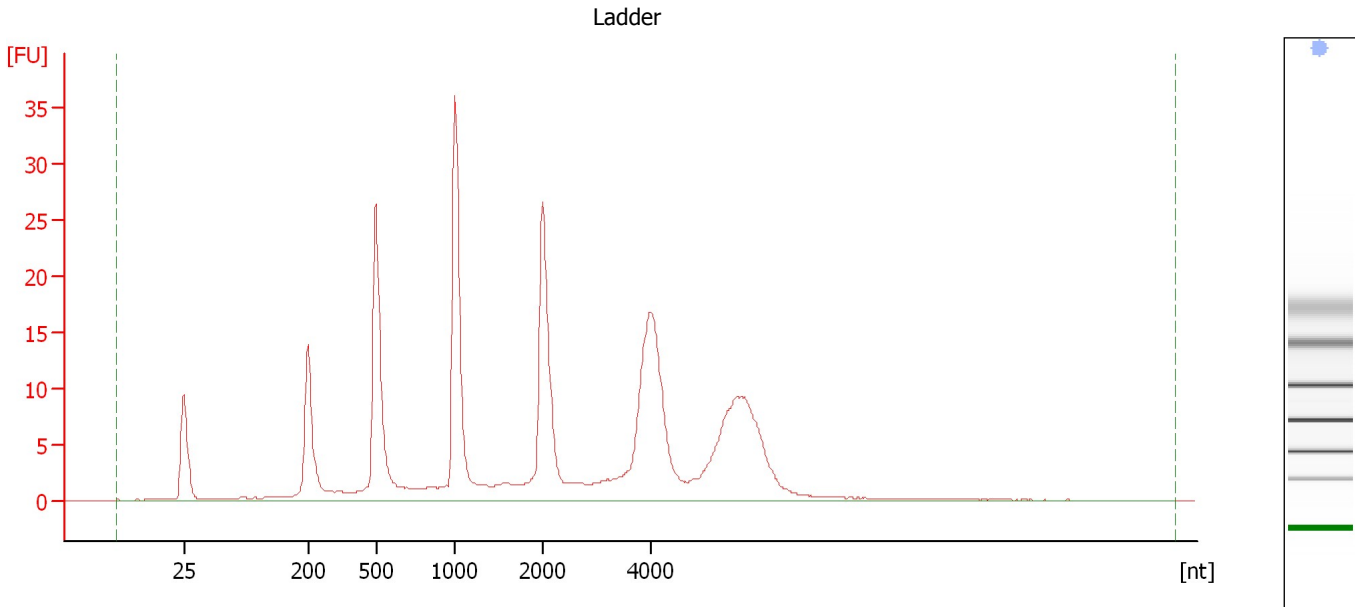
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary



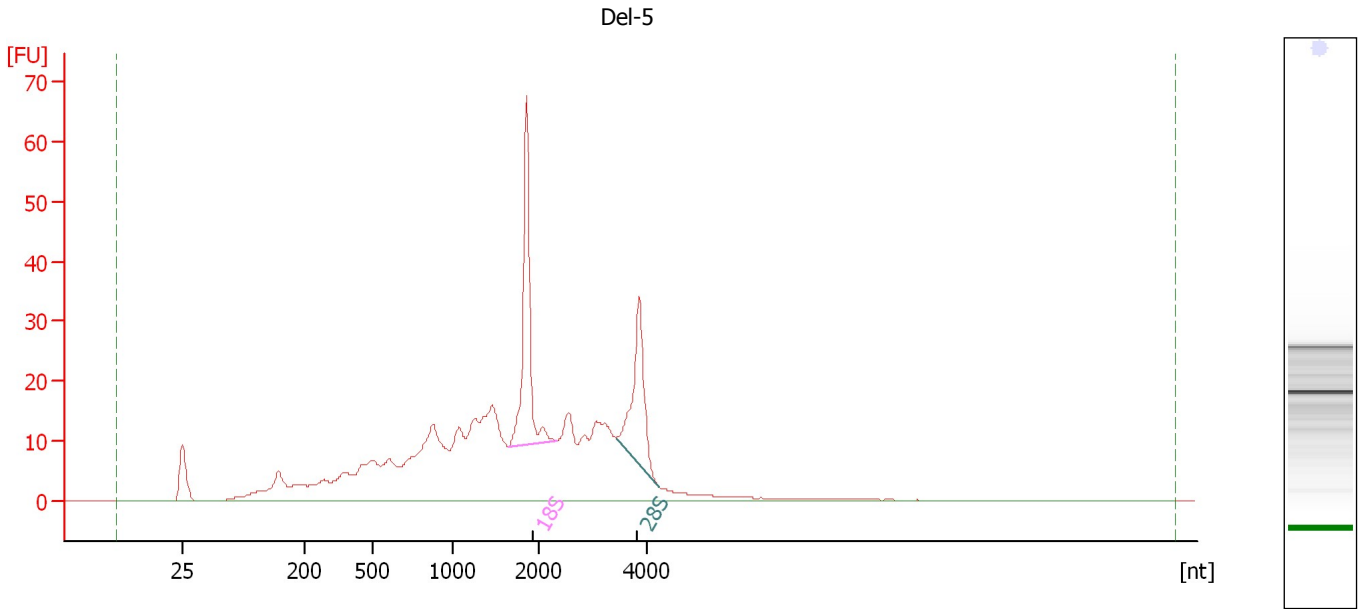
Overall Results for Ladder

RNA Area:	274.6	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\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
 Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Del-5

RNA Area:	523.7	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	286 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN:6

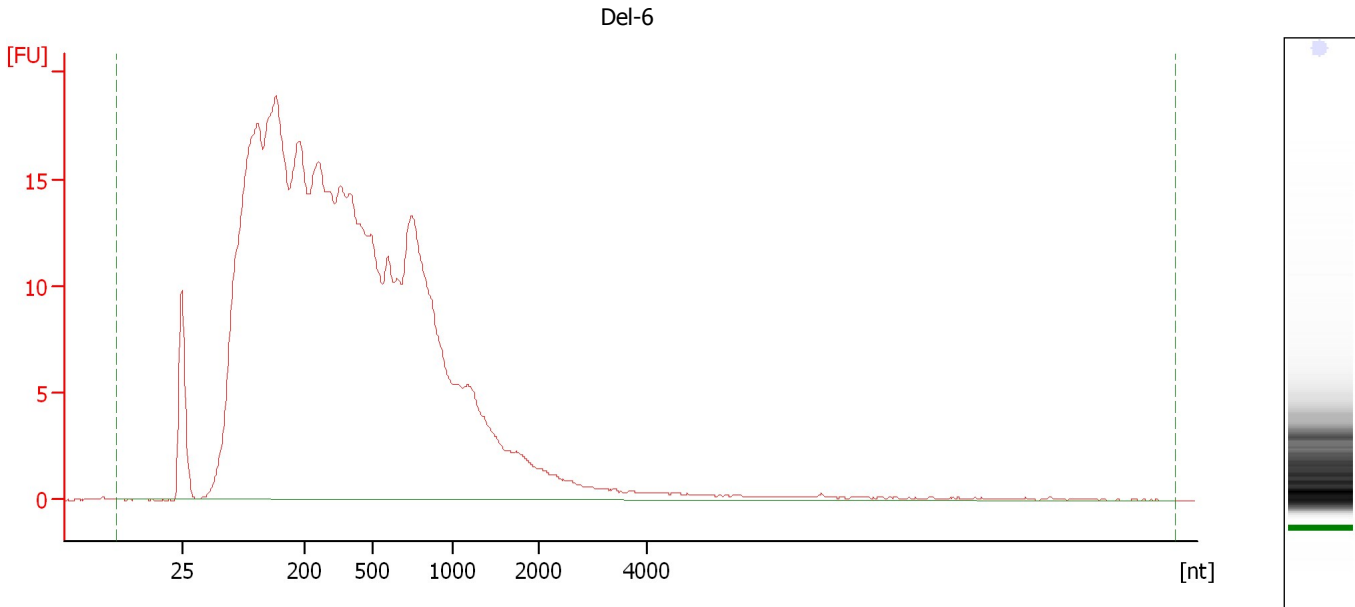
Fragment table for sample 1 : Del-5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	2,347	56.3	10.7
28S	3,441	4,237	37.3	7.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



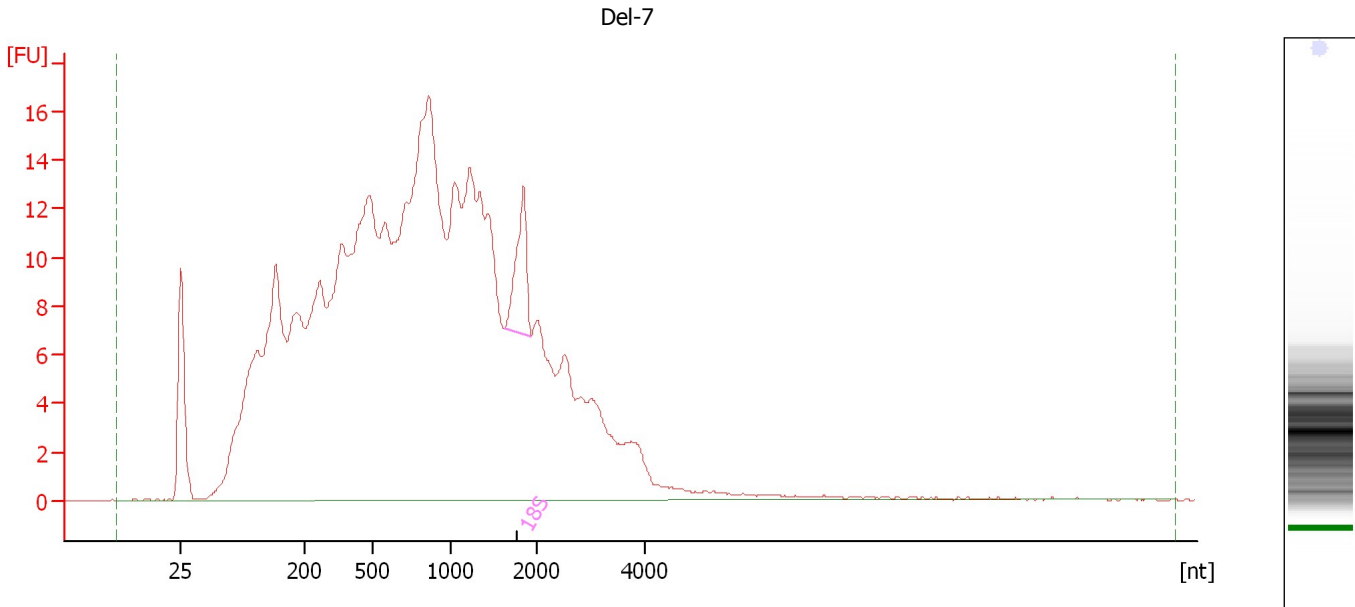
Overall Results for sample 2 : Del-6

RNA Area:	531.4	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	290 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Del-7

RNA Area:	493.0	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	269 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

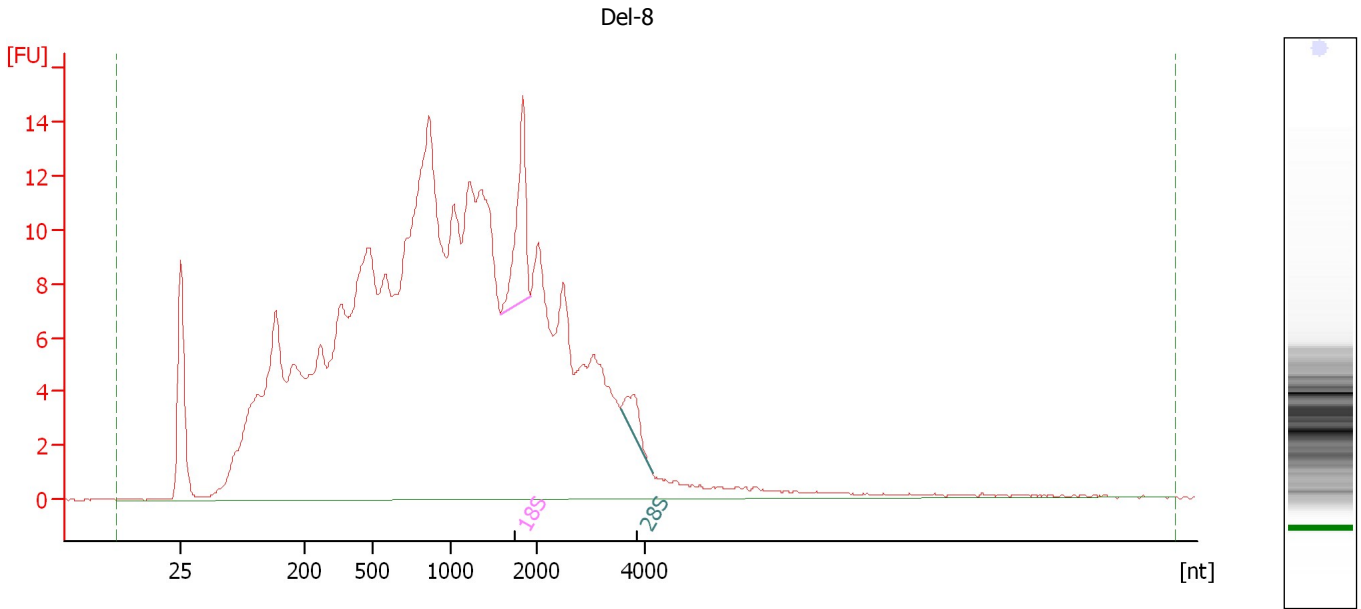
Fragment table for sample 3 : Del-7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	1,940	8.5	1.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Del-8

RNA Area: 412.4 RNA Integrity Number (RIN): 3.1 (B.02.08)
RNA Concentration: 225 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 3.10

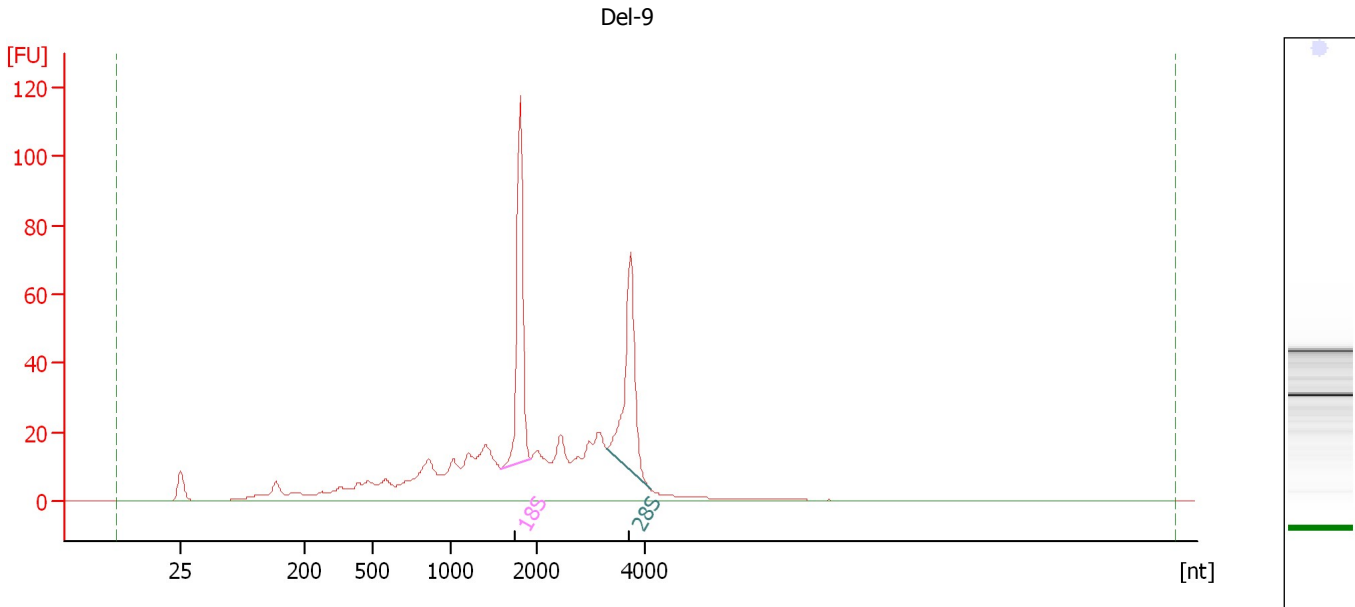
Fragment table for sample 4 : Del-8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	1,928	9.1	2.2
28S	3,559	4,157	2.4	0.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Del-9

RNA Area: 608.9 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 333 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 6.80

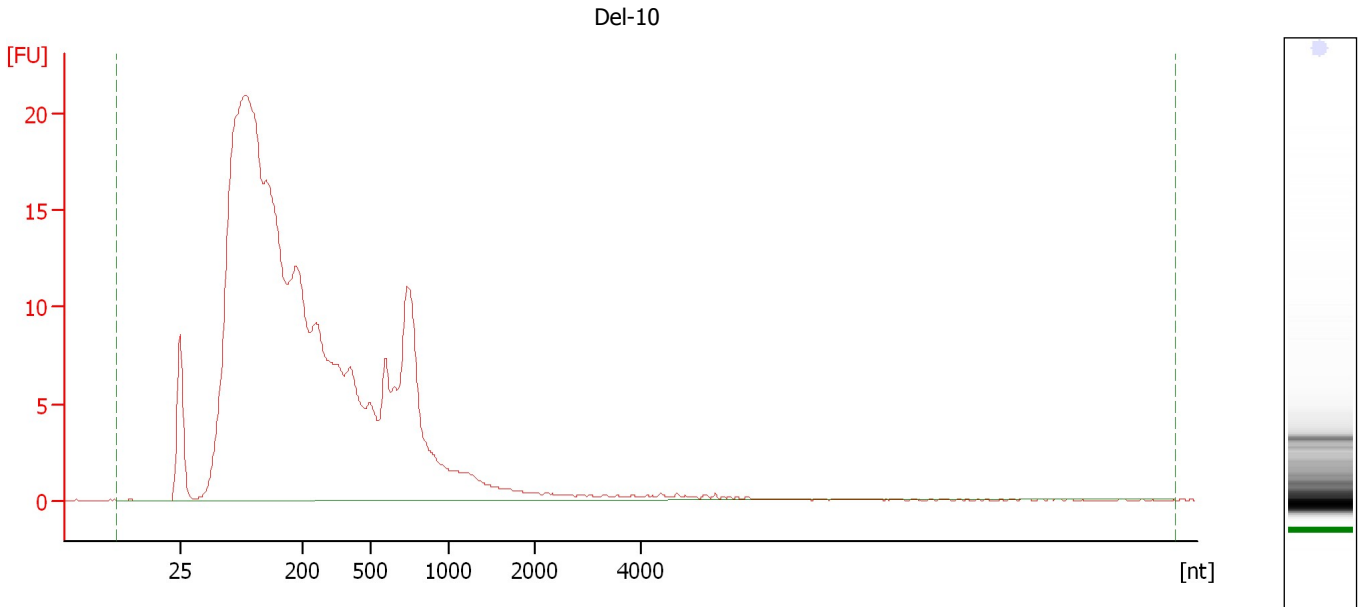
Fragment table for sample 5 : Del-9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,592	1,928	84.1	13.8
28S	3,319	4,117	75.7	12.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



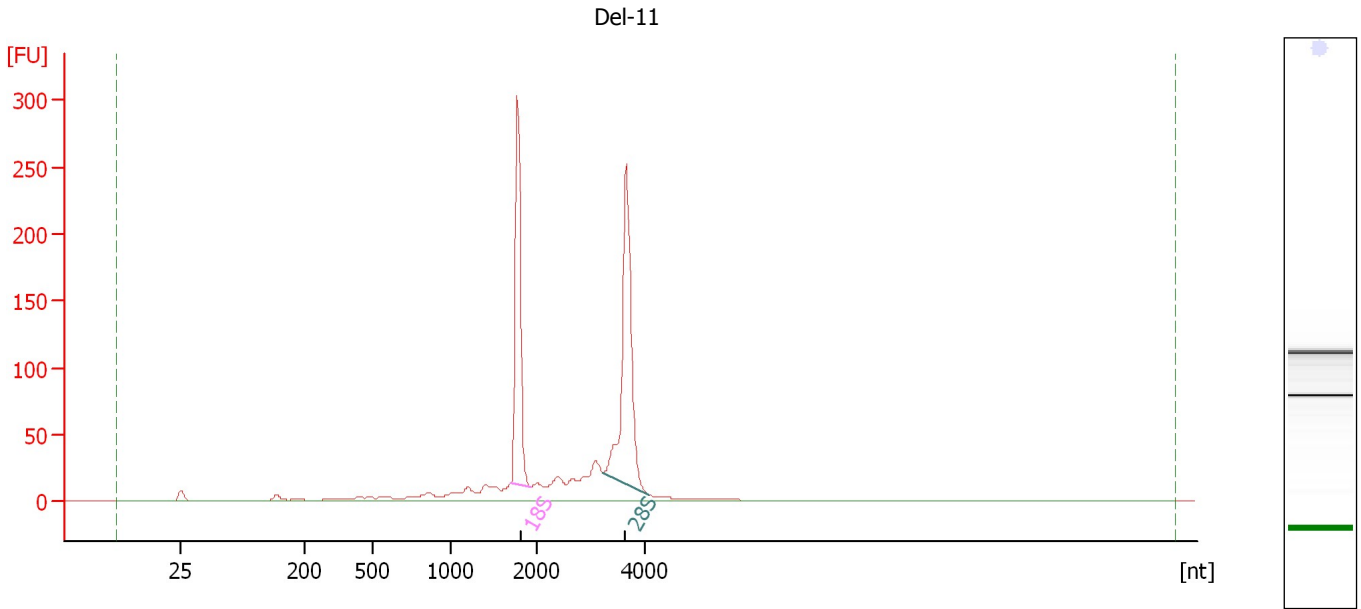
Overall Results for sample 6 : Del-10

RNA Area:	385.2	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	210 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Del-11

RNA Area:	867.7	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	474 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.90

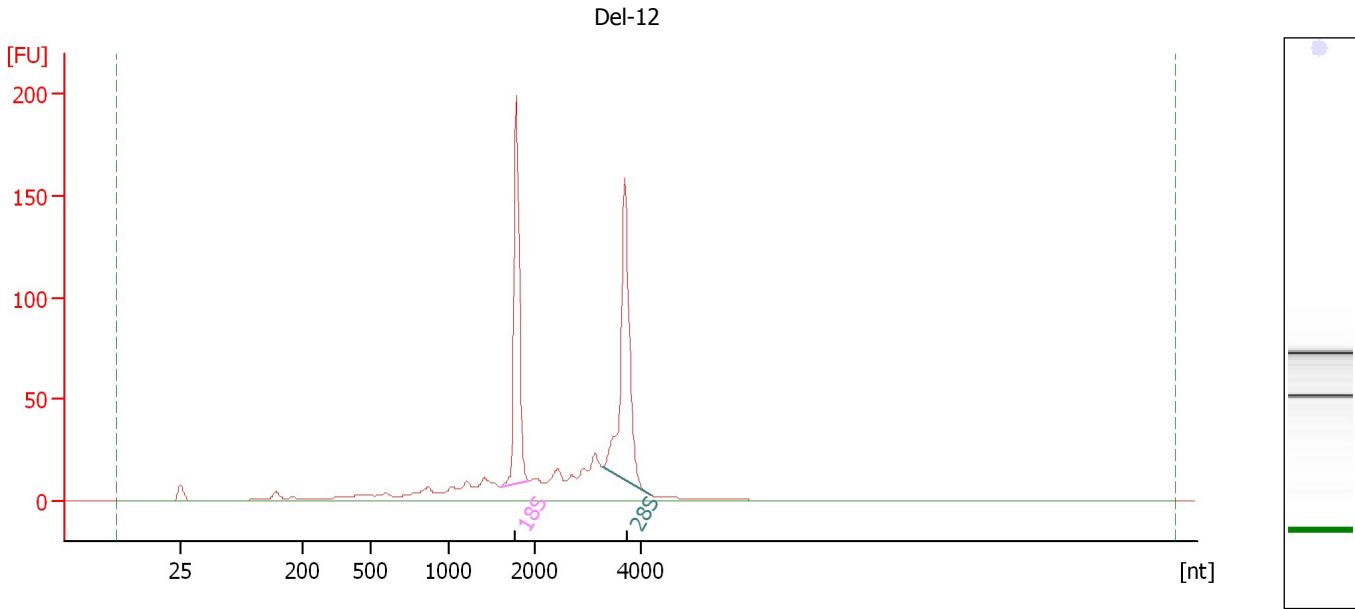
Fragment table for sample 7 : Del-11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,704	1,928	204.8	23.6
28S	3,240	4,097	262.2	30.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Del-12

RNA Area:	647.4	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	354 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.50

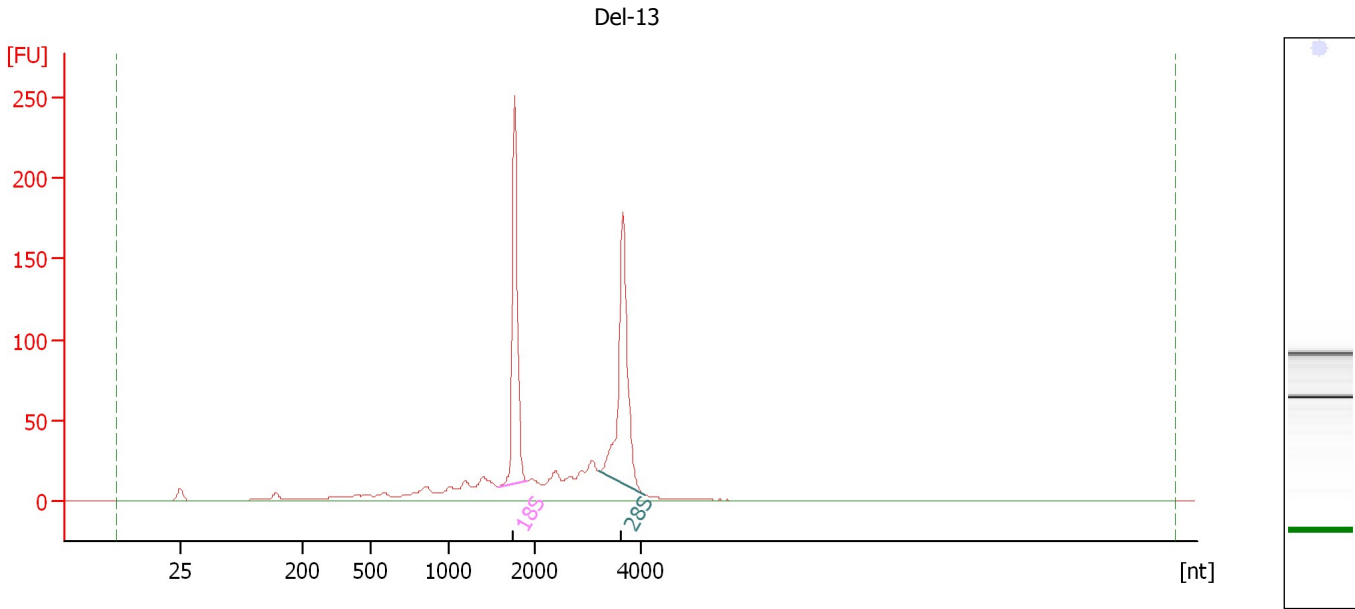
Fragment table for sample 8 : Del-12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,937	140.6	21.7
28S	3,257	4,156	163.0	25.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Del-13

RNA Area: 775.9 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 424 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.40

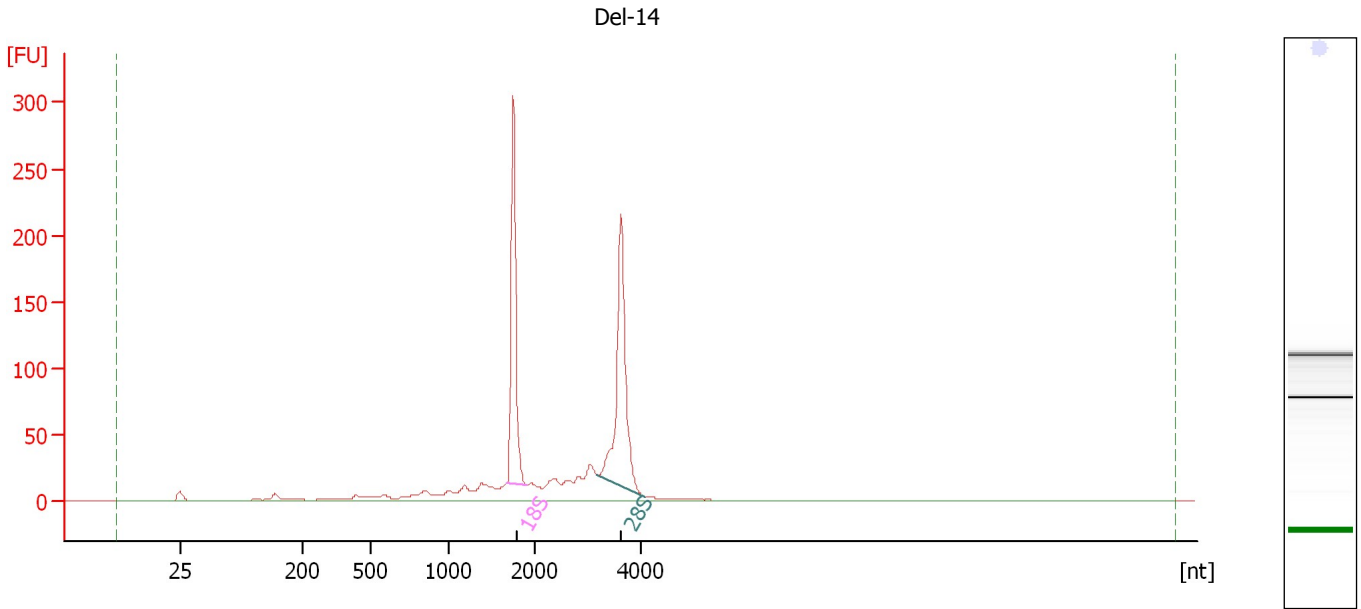
Fragment table for sample 9 : Del-13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,575	1,912	178.9	23.1
28S	3,197	4,056	190.2	24.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Del-14

RNA Area: 840.6 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 459 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.70

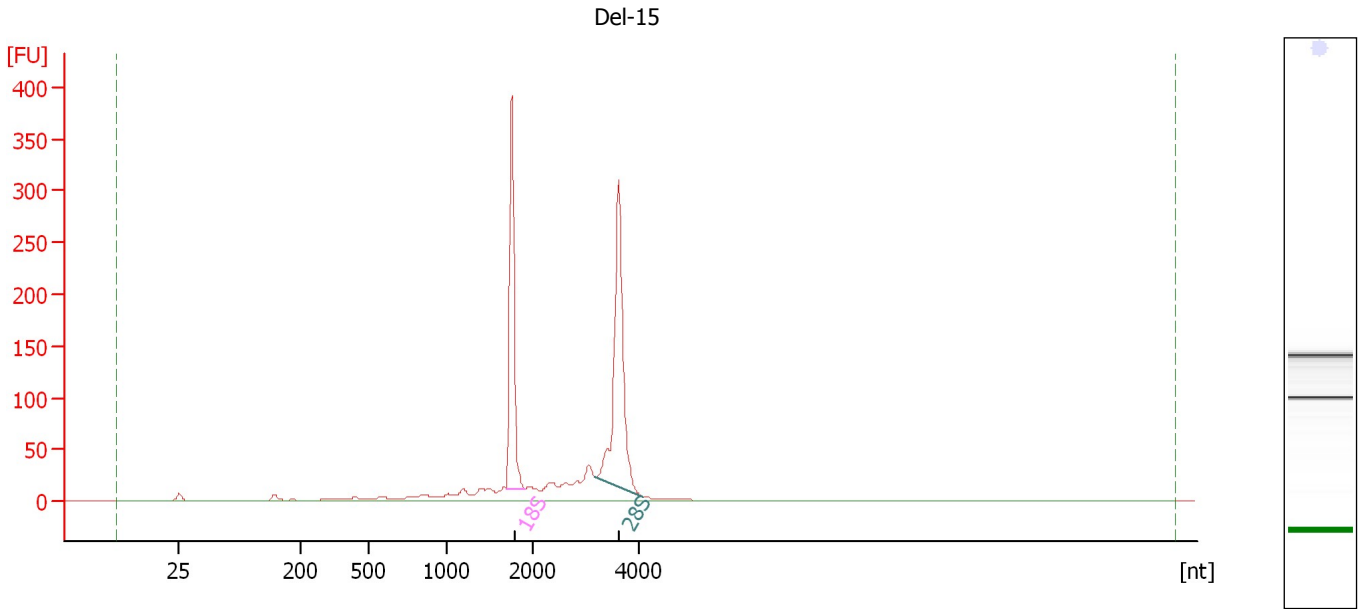
Fragment table for sample 10 : Del-14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	1,899	205.6	24.5
28S	3,177	4,056	229.0	27.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Del-15

RNA Area:	1,016.3	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	555 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 9.20

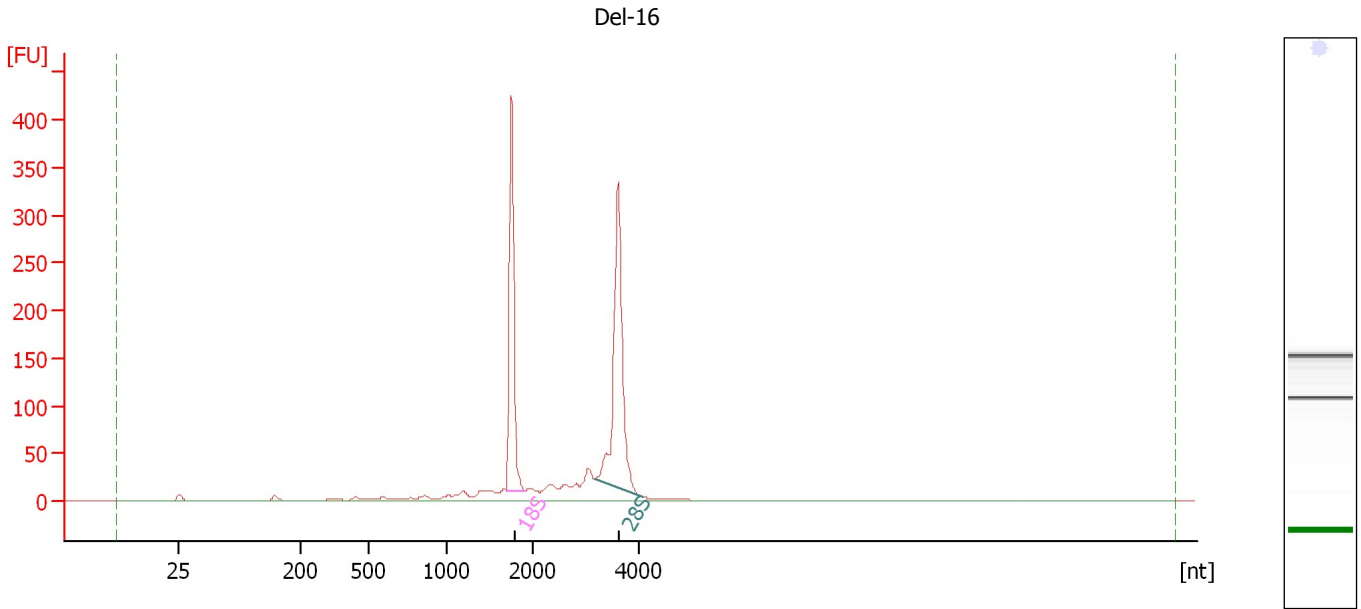
Fragment table for sample 11 : Del-15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	1,908	270.3	26.6
28S	3,175	4,056	326.7	32.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Del-16

RNA Area:	1,025.0	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	560 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 9.30

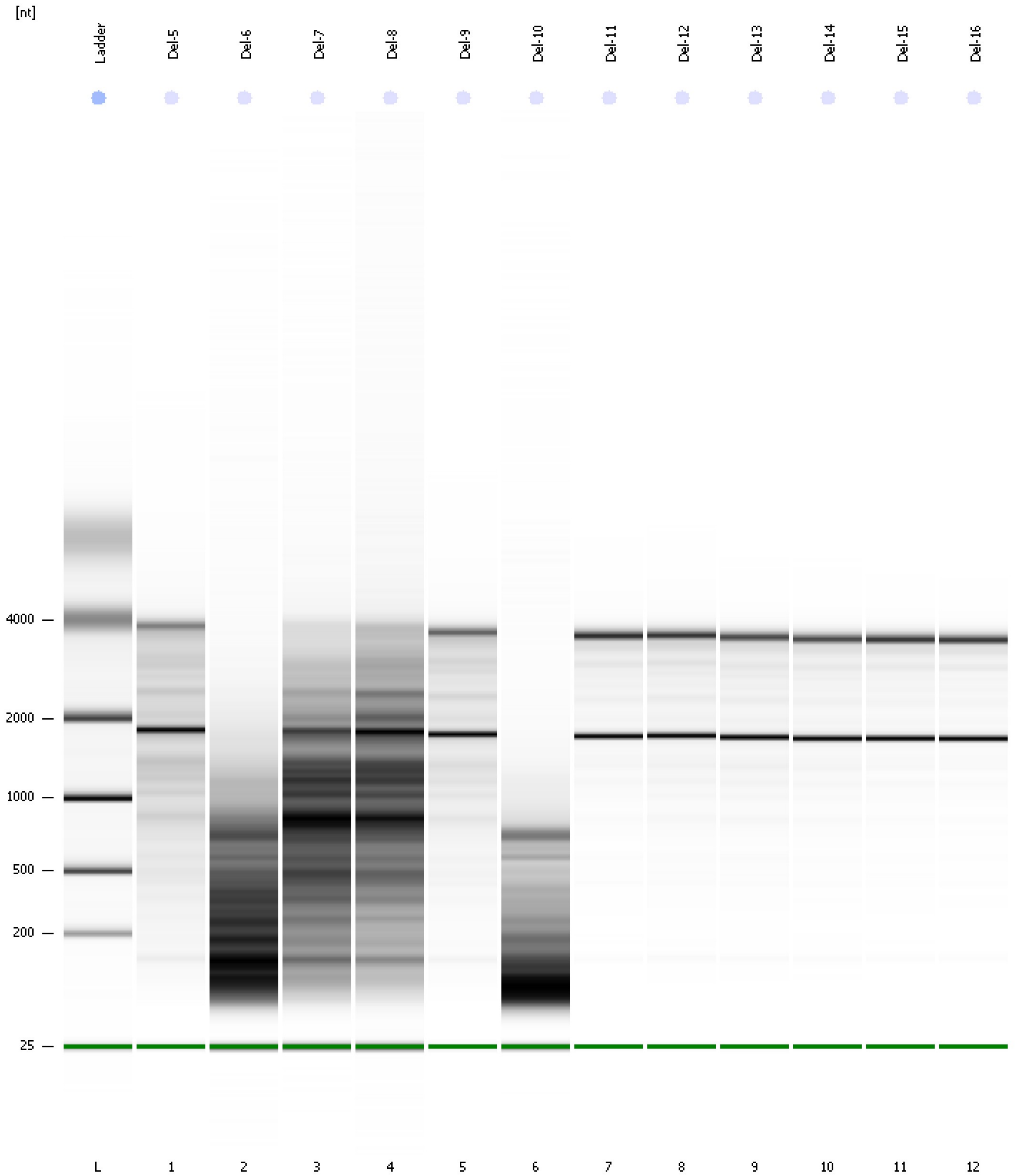
Fragment table for sample 12 : Del-16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	1,908	291.0	28.4
28S	3,175	4,076	342.7	33.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
Modified: 11/14/2012 12:54:54 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad

Created: 11/14/2012 12:31:44 PM
 Modified: 11/14/2012 12:54:54 PM

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		11/14/2012 12:54:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-11-14\2012-11-14_004.xad)		Instrument	Run		11/14/2012 12:31:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/14/2012 12:31:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/14/2012 12:31:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/14/2012 12:31:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/14/2012 12:31:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/14/2012 12:31:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/14/2012 12:31:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1