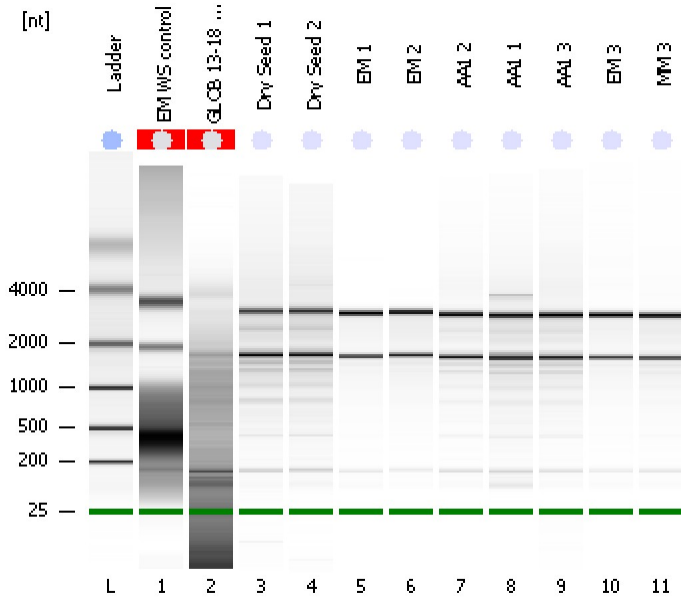


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electrophoresis File Run Summary



Instrument Information:

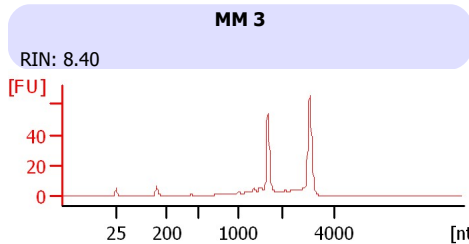
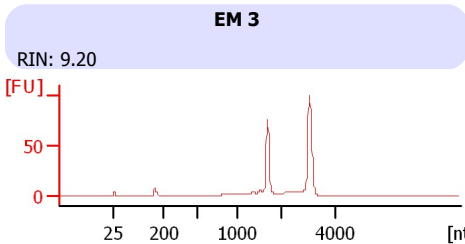
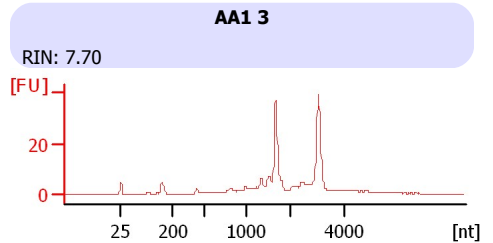
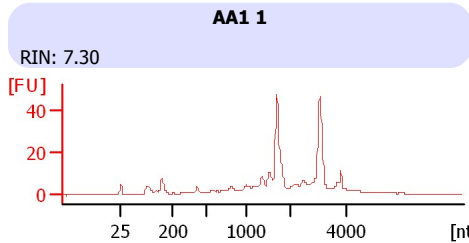
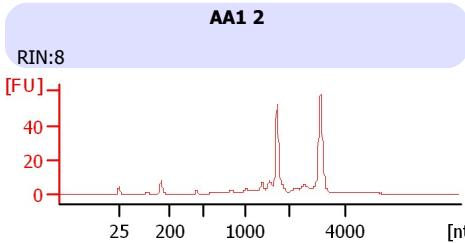
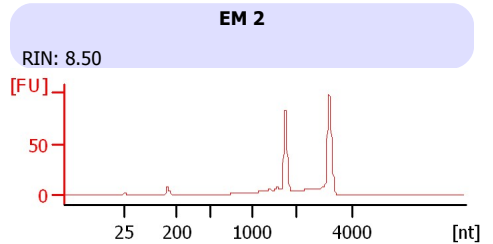
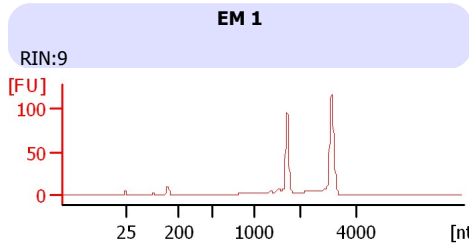
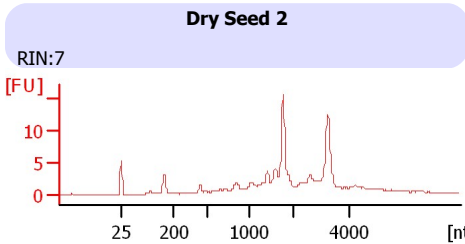
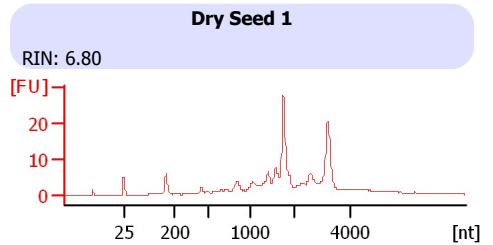
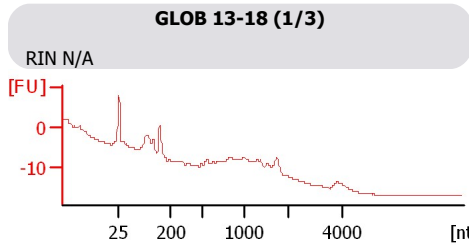
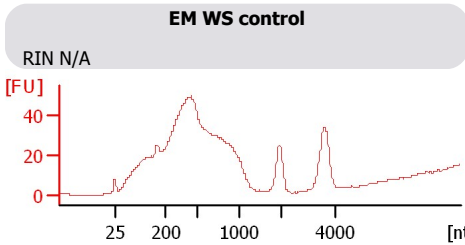
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
 Modified: 8/21/2013 10:11:03 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
EM WS control		✓	RIN N/A	
GLOB 13-18 (1/3)		✓	RIN N/A	
Dry Seed 1		✓	RIN: 6.80	
Dry Seed 2		✓	RIN:7	
EM 1		✓	RIN:9	
EM 2		✓	RIN: 8.50	
AA1 2		✓	RIN:8	
AA1 1		✓	RIN: 7.30	
AA1 3		✓	RIN: 7.70	
EM 3		✓	RIN: 9.20	
MM 3		✓	RIN: 8.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ l] : 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

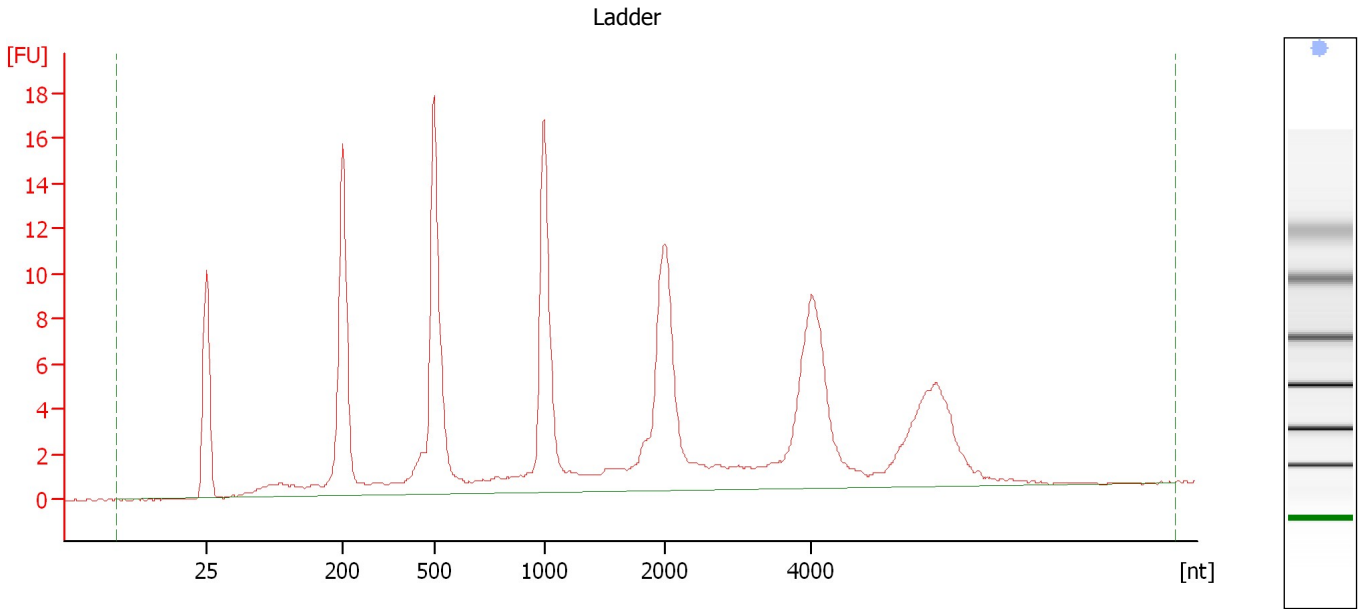
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary



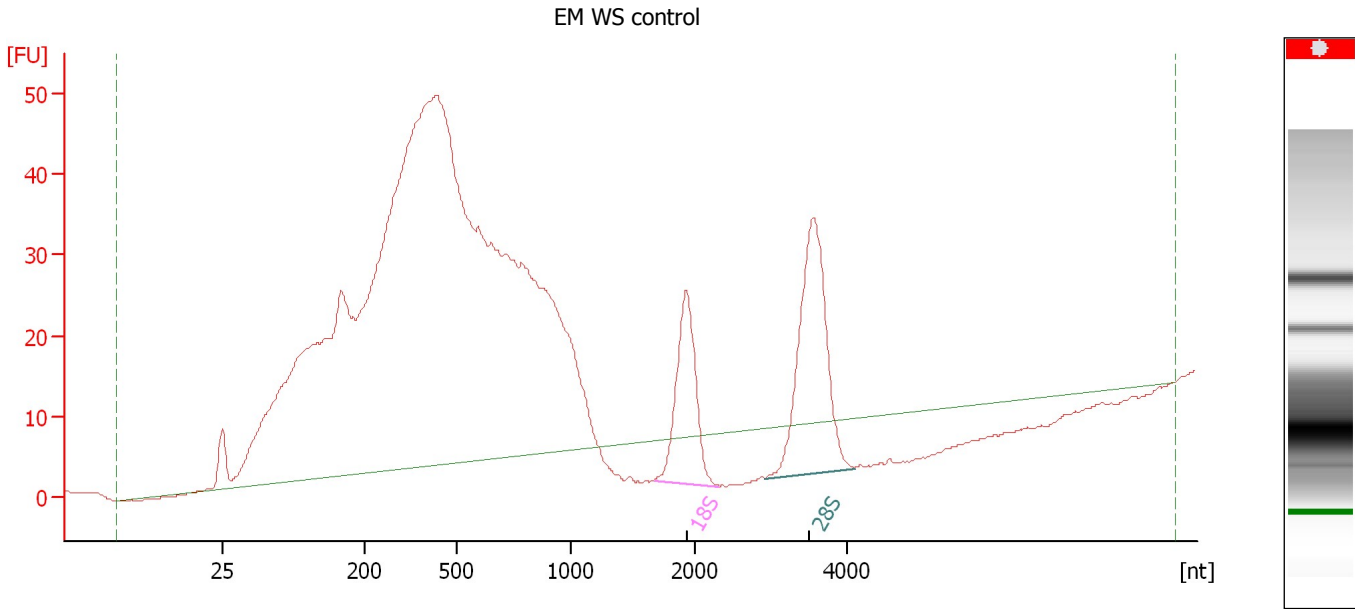
Overall Results for Ladder

RNA Area:	182.7	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
 Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EM WS control

RNA Area:	1,208.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6,611 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN N/A

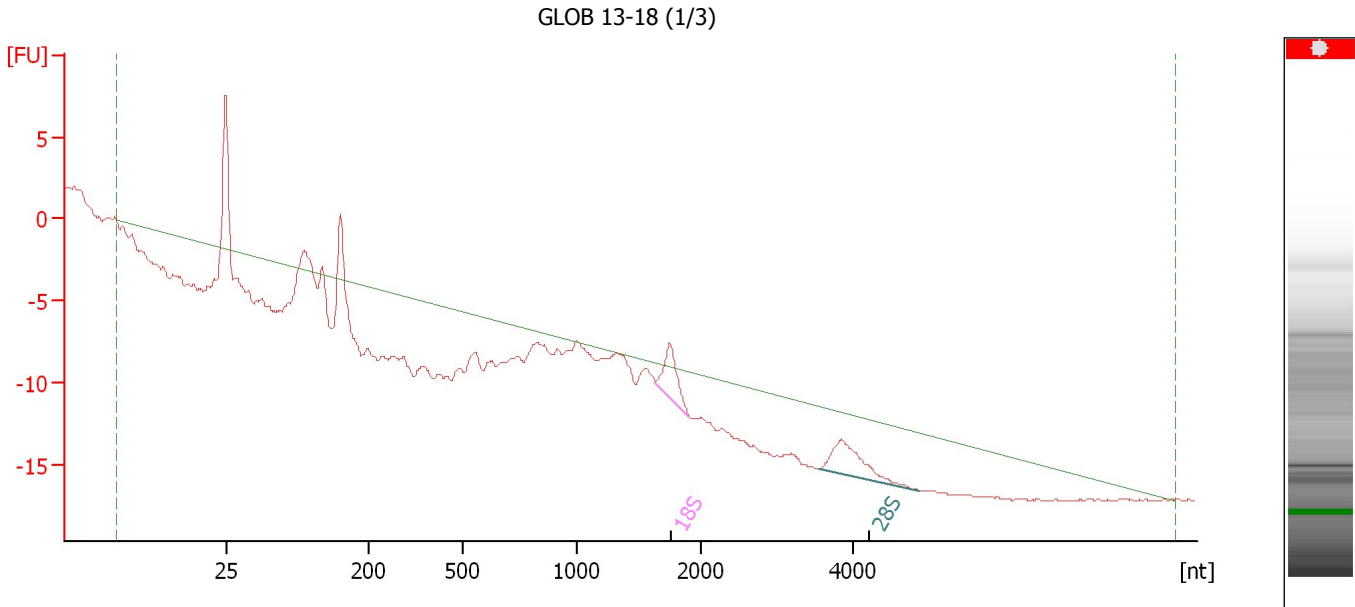
Fragment table for sample 1 : EM WS control

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	2,329	53.6	4.4
28S	2,919	4,099	88.6	7.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
 Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : GLOB 13-18 (1/3)

RNA Area:	5.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	33 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN N/A

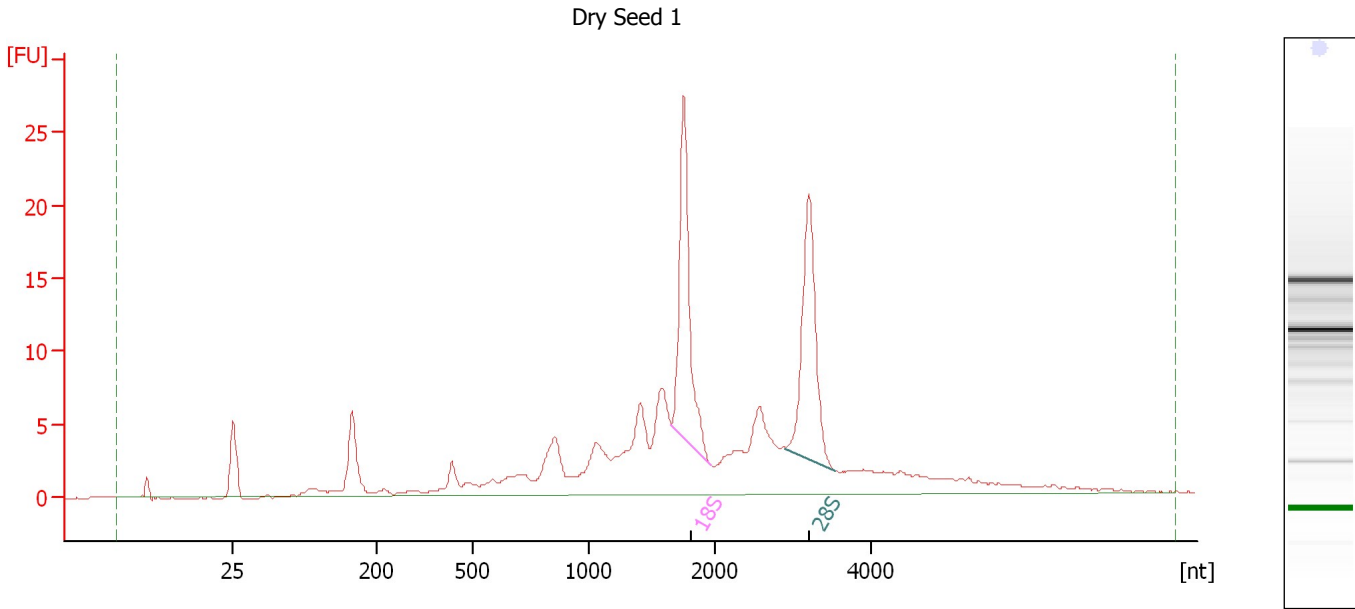
Fragment table for sample 2 : GLOB 13-18 (1/3)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,911	4.9	81.7
28S	3,546	4,858	6.5	109.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Dry Seed 1

RNA Area: 197.1 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 1,079 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 6.80

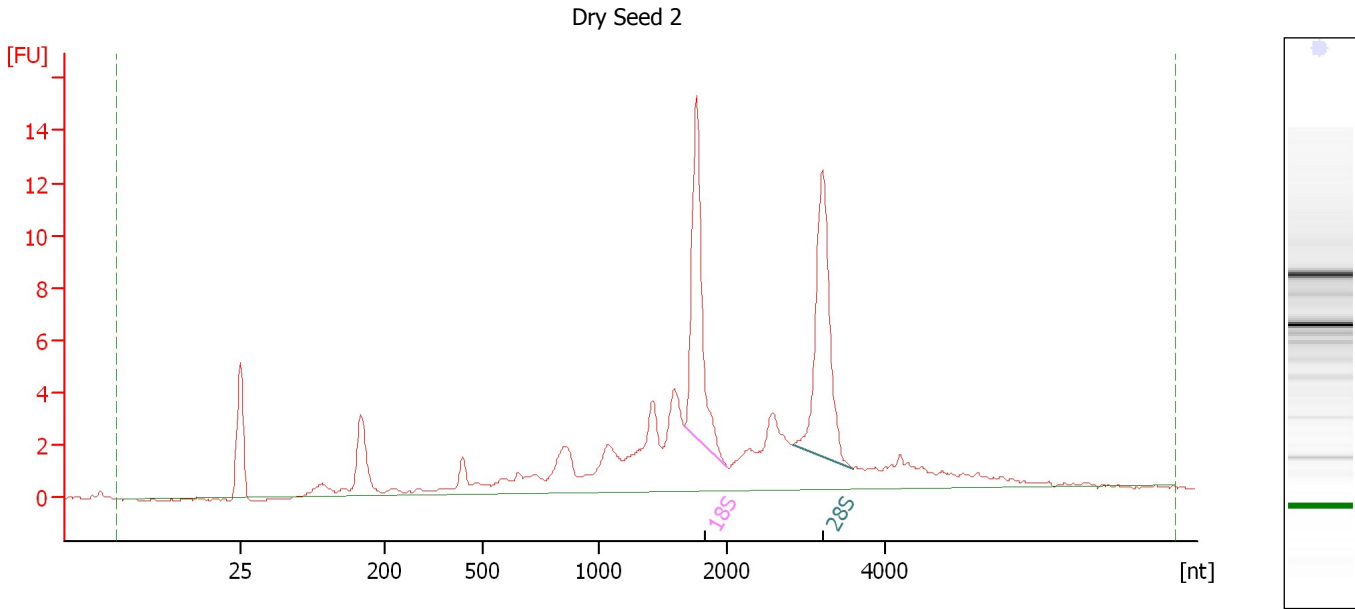
Fragment table for sample 3 : Dry Seed 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	1,969	27.8	14.1
28S	2,914	3,547	25.3	12.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Dry Seed 2

RNA Area: 105.5 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 577 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN:7

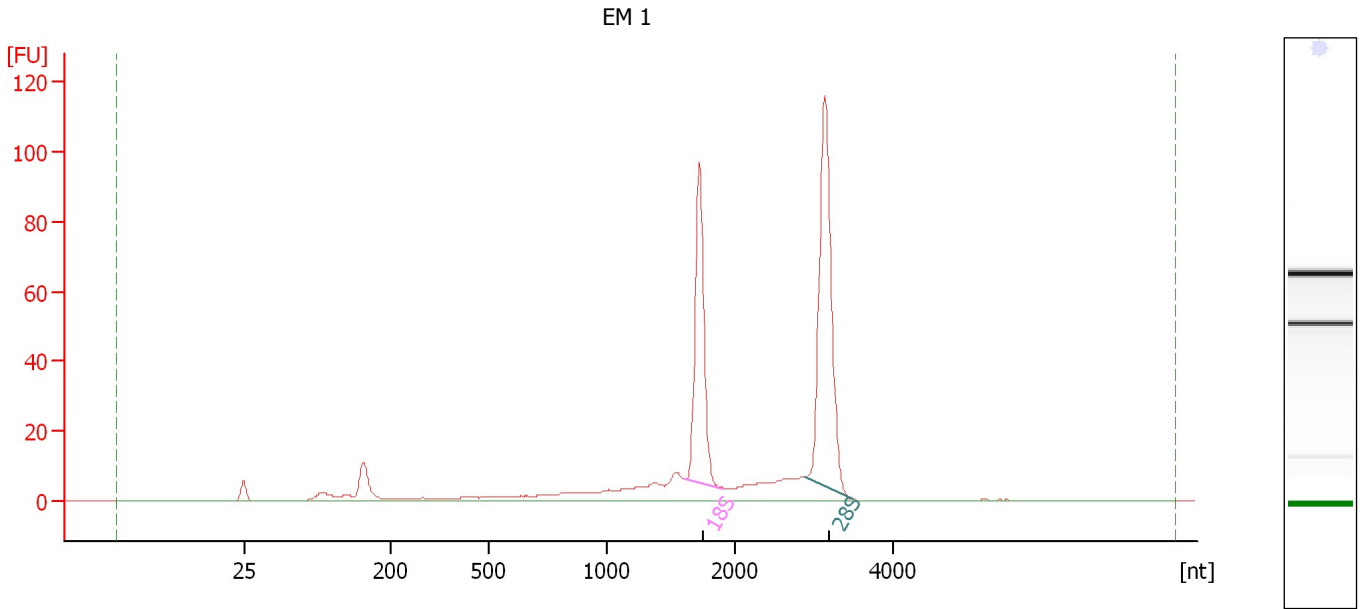
Fragment table for sample 4 : Dry Seed 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	2,000	15.0	14.2
28S	2,829	3,591	15.6	14.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : EM 1

RNA Area:	408.4	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	2,235 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN:9

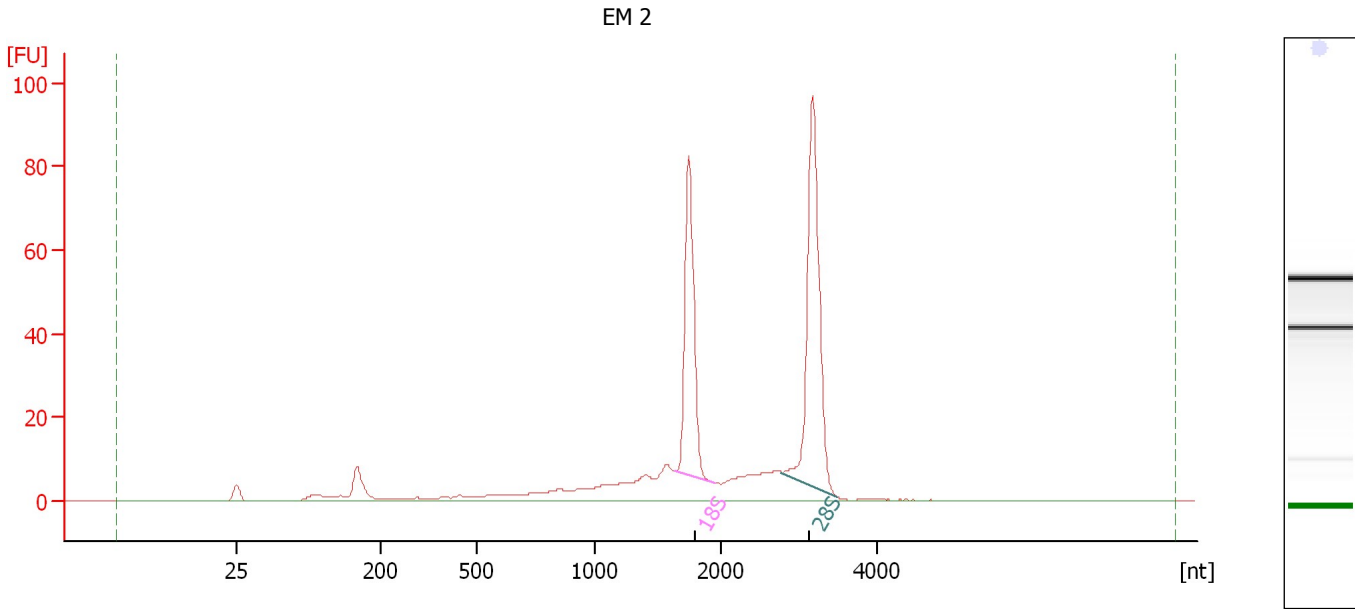
Fragment table for sample 5 : EM 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,612	1,911	94.8	23.2
28S	2,882	3,476	137.7	33.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : EM 2

RNA Area:	377.1	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	2,063 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.50

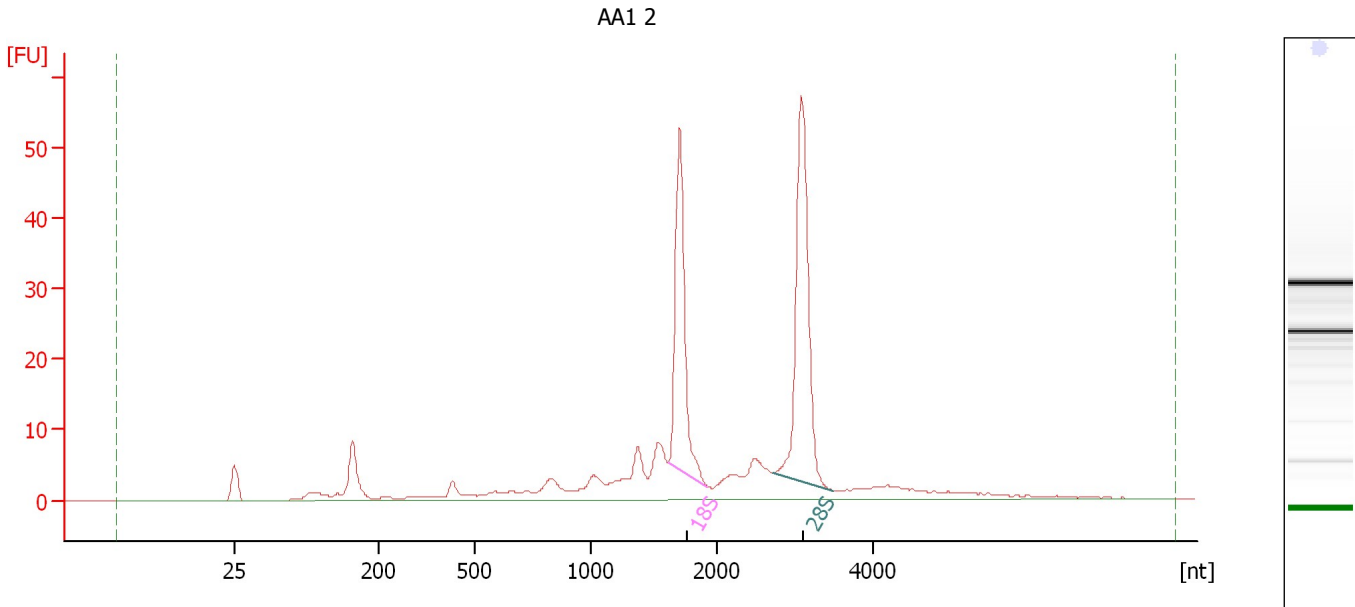
Fragment table for sample 6 : EM 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,947	80.5	21.4
28S	2,776	3,487	116.0	30.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AA1 2

RNA Area:	273.2	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	1,495 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:8

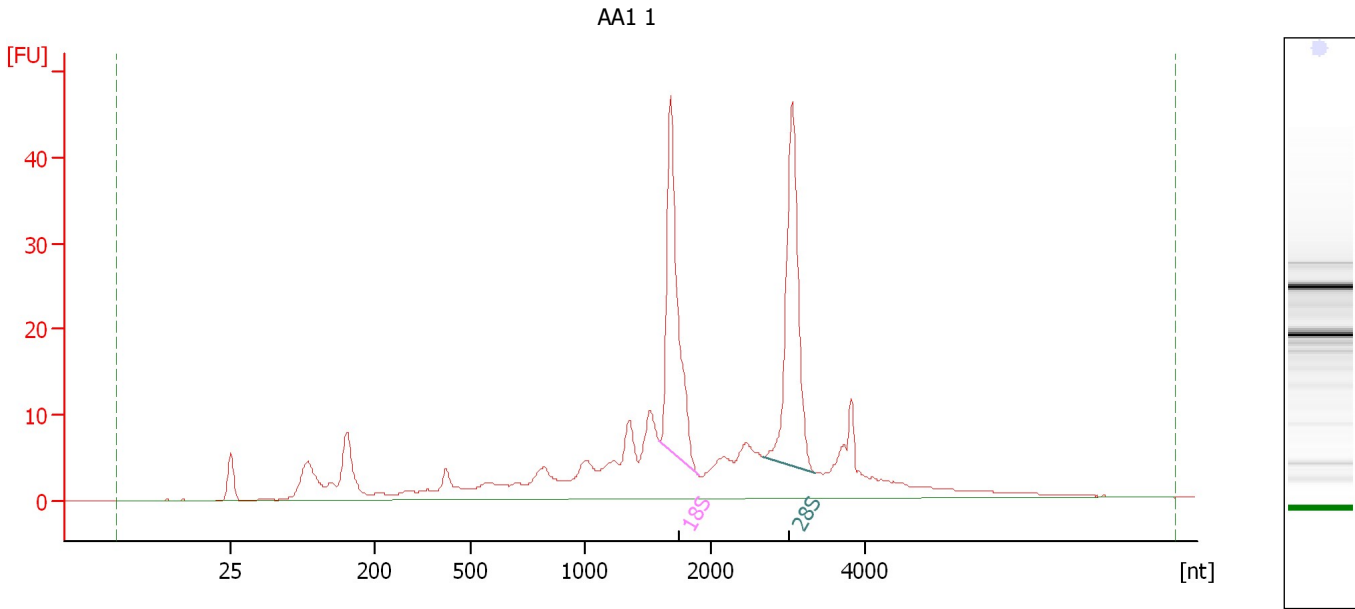
Fragment table for sample 7 : AA1 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,928	52.0	19.0
28S	2,721	3,491	69.0	25.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AA1 1

RNA Area:	338.9	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	1,854 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.30

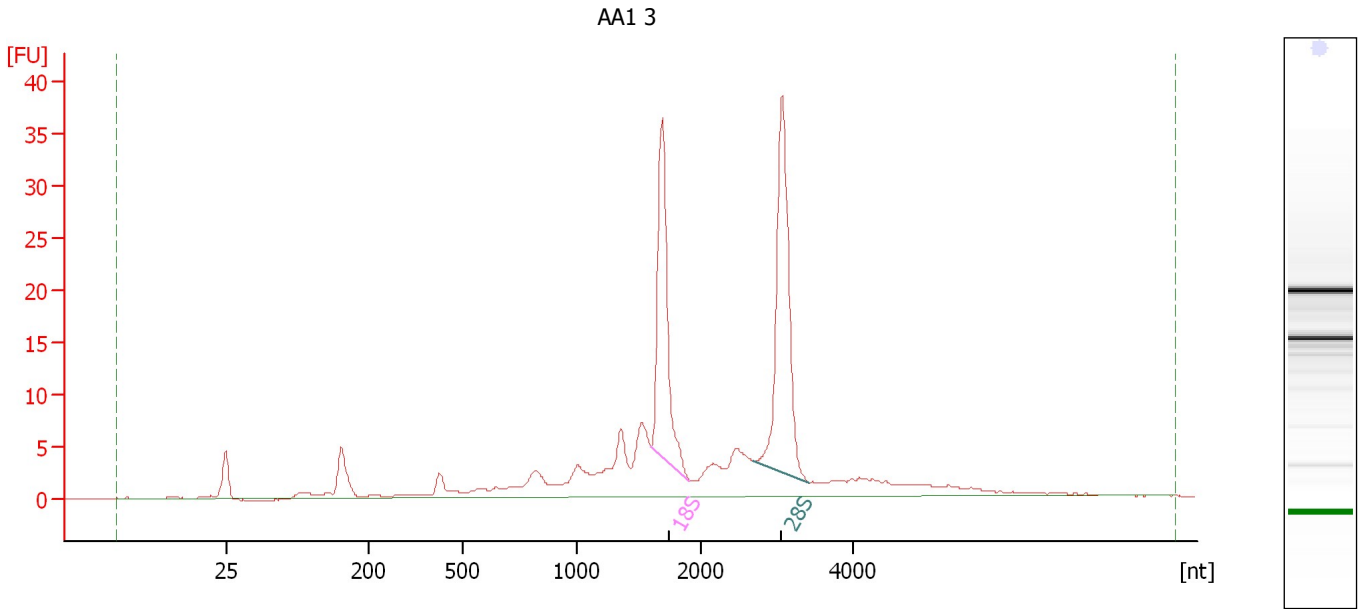
Fragment table for sample 8 : AA1 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,593	1,899	53.7	15.9
28S	2,680	3,357	54.1	16.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AA1 3

RNA Area:	210.3	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	1,151 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.70

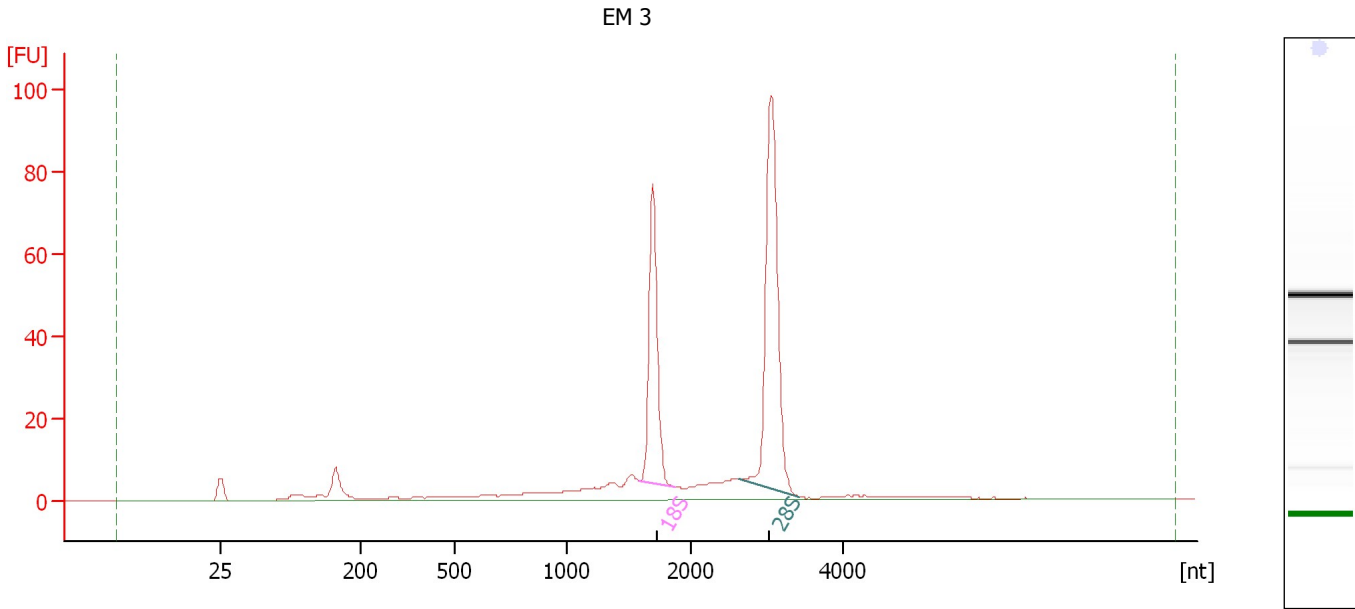
Fragment table for sample 9 : AA1 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	1,911	36.8	17.5
28S	2,694	3,406	47.3	22.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : EM 3

RNA Area:	338.5	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	1,852 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.20

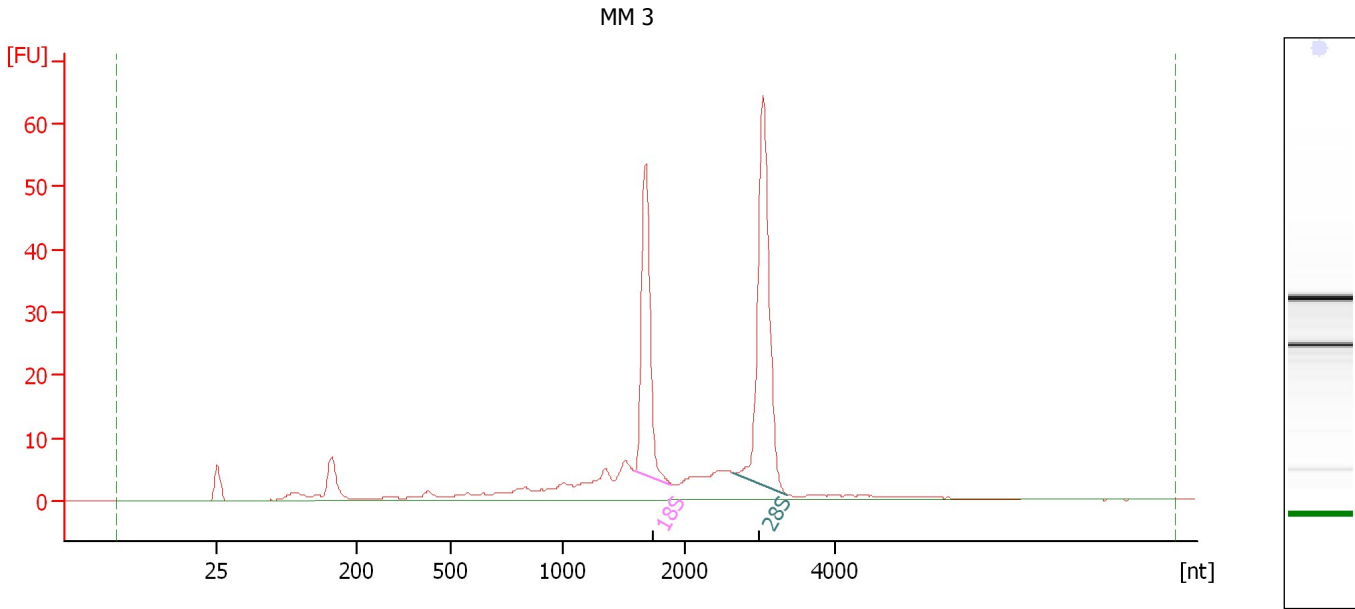
Fragment table for sample 10 : EM 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,585	1,871	75.3	22.3
28S	2,638	3,428	121.1	35.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MM 3

RNA Area:	260.8	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	1,427 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.40

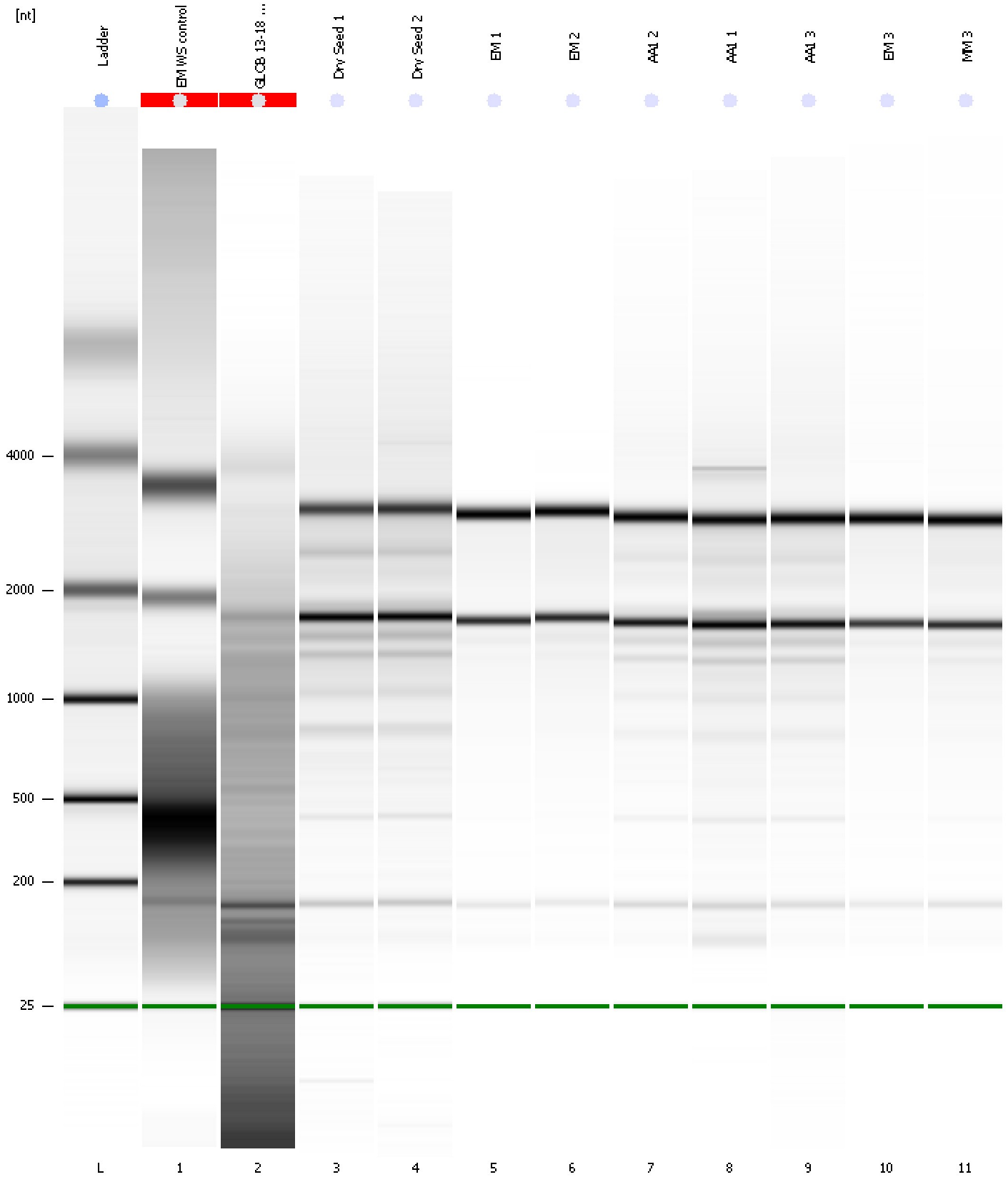
Fragment table for sample 11 : MM 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	1,894	51.1	19.6
28S	2,652	3,362	77.6	29.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
Modified: 8/21/2013 10:11:03 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad

Created: 8/21/2013 9:48:06 AM
 Modified: 8/21/2013 10:11:03 AM

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		8/21/2013 10:11:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-21\2013-08-21_001.xad)		Instrument	Run		8/21/2013 9:48:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/21/2013 9:48:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/21/2013 9:48:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/21/2013 9:48:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/21/2013 9:48:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/21/2013 9:48:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/21/2013 9:48:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1