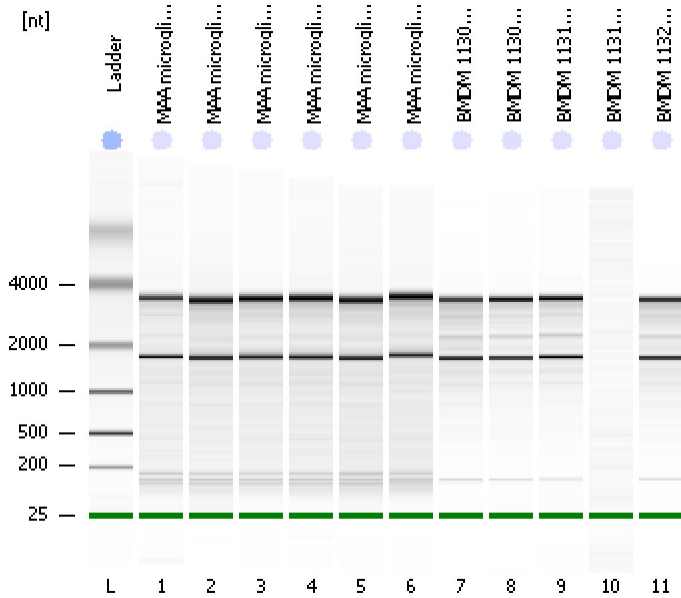


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 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 Pico Series II.xsy

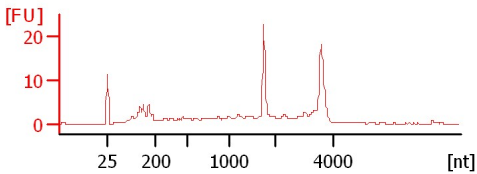
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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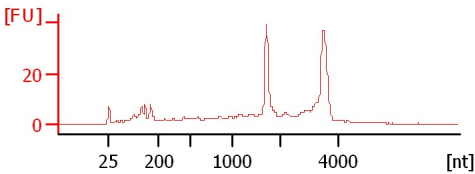
Chip Information:

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

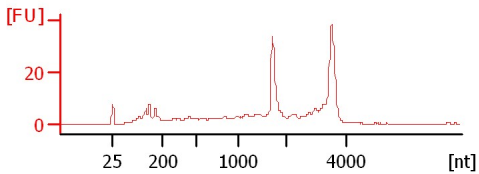
MAA microglia 1
RIN: 7.20



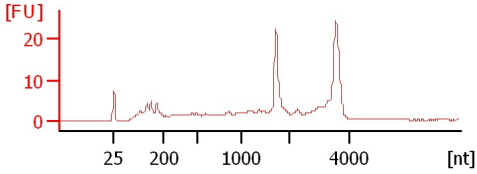
MAA microglia 2
RIN: 7.70



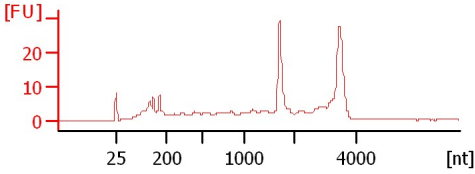
MAA microglia 3
RIN: 7.50



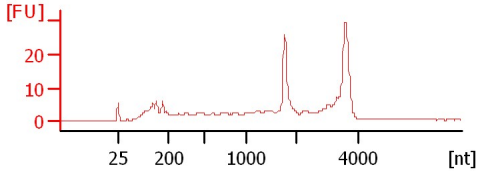
MAA microglia 4
RIN: 7.50



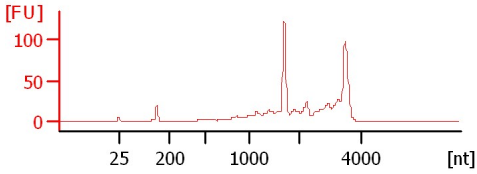
MAA microglia 5
RIN: 7.30



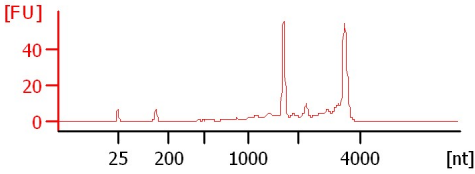
MAA microglia 6
RIN: 7.50



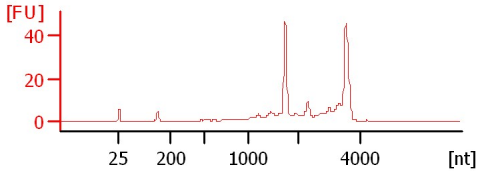
BMDM 1130M1.2
RIN: 7.40



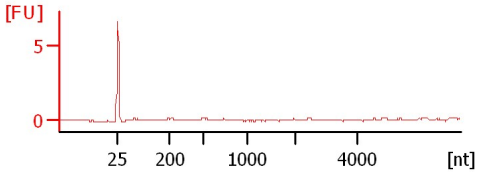
BMDM 1130M2.1
RIN: 8.30



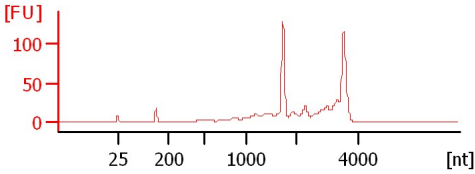
BMDM 1131M1.1
RIN: 8.40



BMDM 1131M2.1
RIN: 1



BMDM 1132M1.2
RIN: 7.90



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
MAA microglia 1		✓	RIN: 7.20	
MAA microglia 2		✓	RIN: 7.70	
MAA microglia 3		✓	RIN: 7.50	
MAA microglia 4		✓	RIN: 7.50	
MAA microglia 5		✓	RIN: 7.30	
MAA microglia 6		✓	RIN: 7.50	
BMDM 1130M1.2		✓	RIN: 7.40	
BMDM 1130M2.1		✓	RIN: 8.30	
BMDM 1131M1.1		✓	RIN: 8.40	
BMDM 1131M2.1		✓	RIN:1	
BMDM 1132M1.2		✓	RIN: 7.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 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/ 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

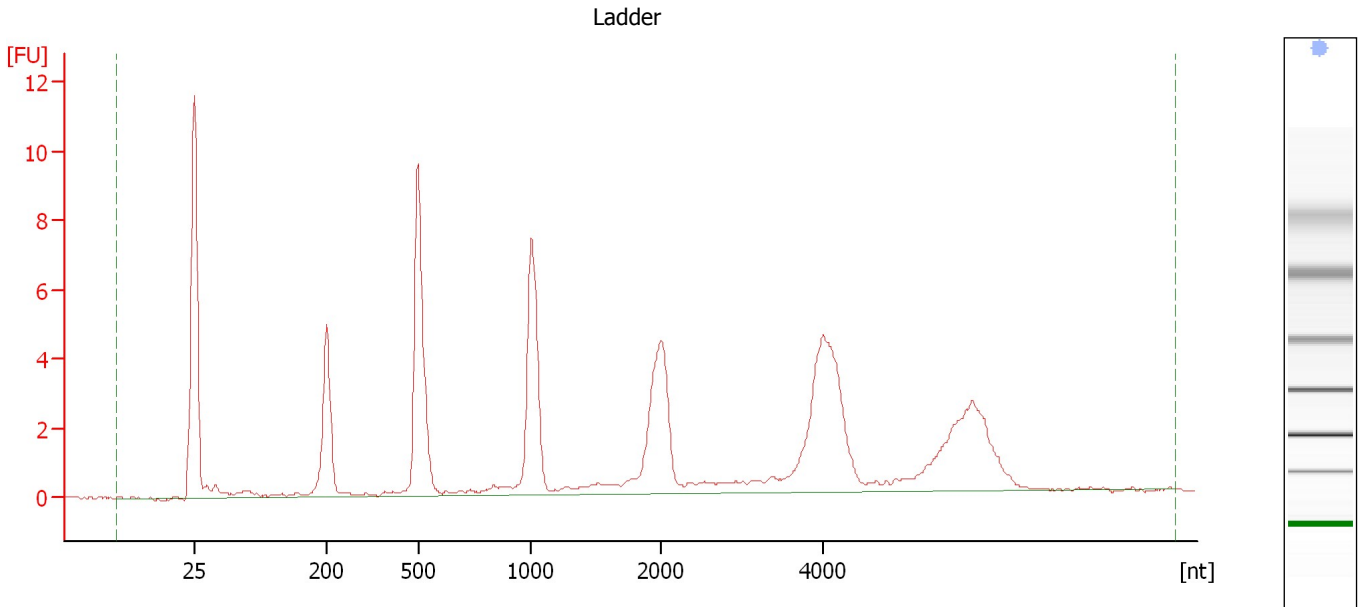
Ladder

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\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary



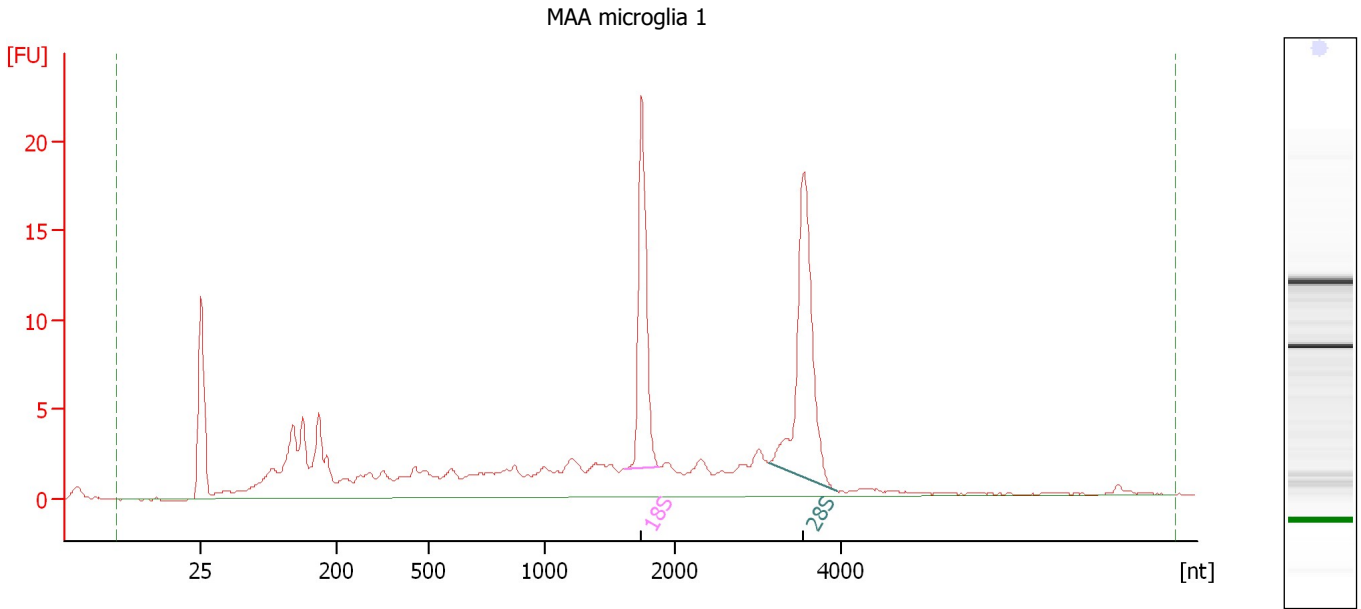
Overall Results for Ladder

RNA Area:	78.2	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\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MAA microglia 1

RNA Area: 168.6 RNA Integrity Number (RIN): 7.2 (B.02.08)
RNA Concentration: 2,156 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.20

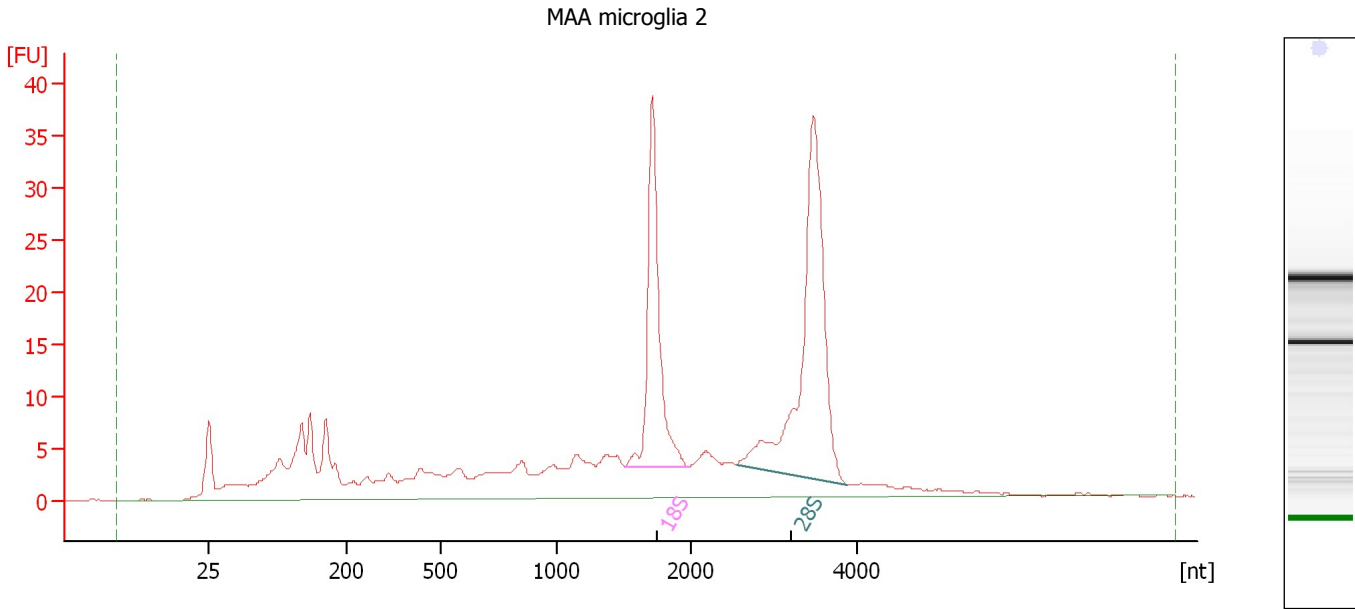
Fragment table for sample 1 : MAA microglia 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,880	19.6	11.6
28S	3,145	3,962	26.6	15.8

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
 Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MAA microglia 2

RNA Area:	357.7	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	4,572 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.70

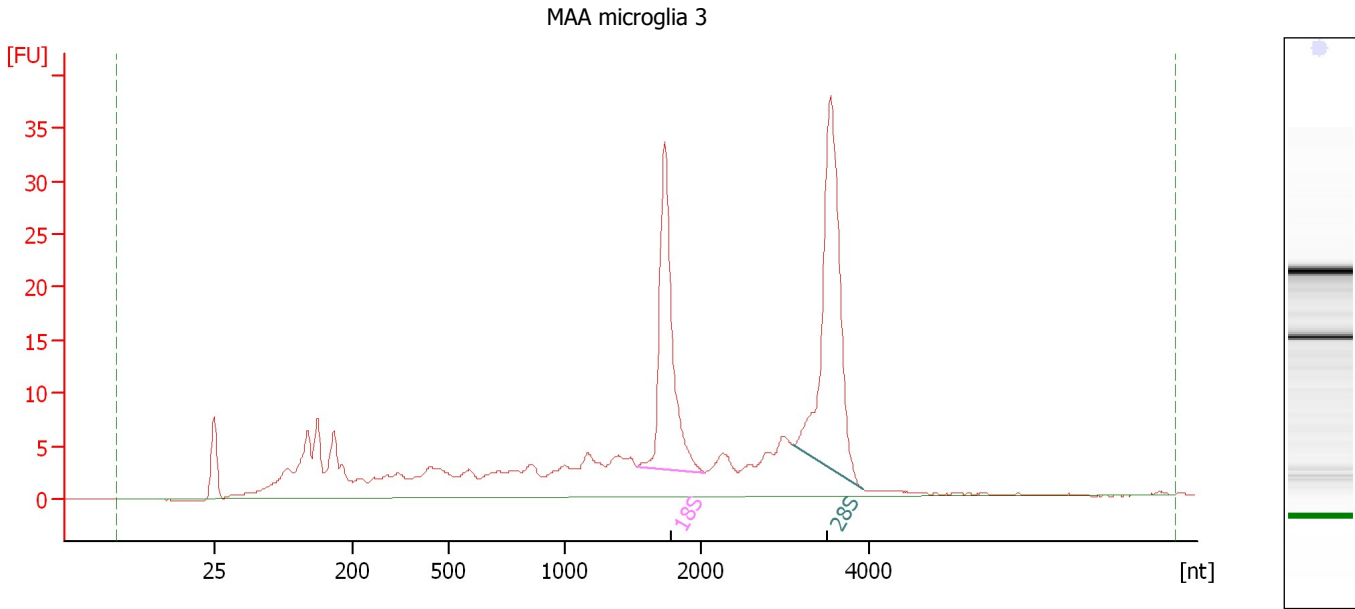
Fragment table for sample 2 : MAA microglia 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,508	1,990	49.3	13.8
28S	2,558	3,874	80.3	22.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MAA microglia 3

RNA Area: 317.0 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 4,051 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.50

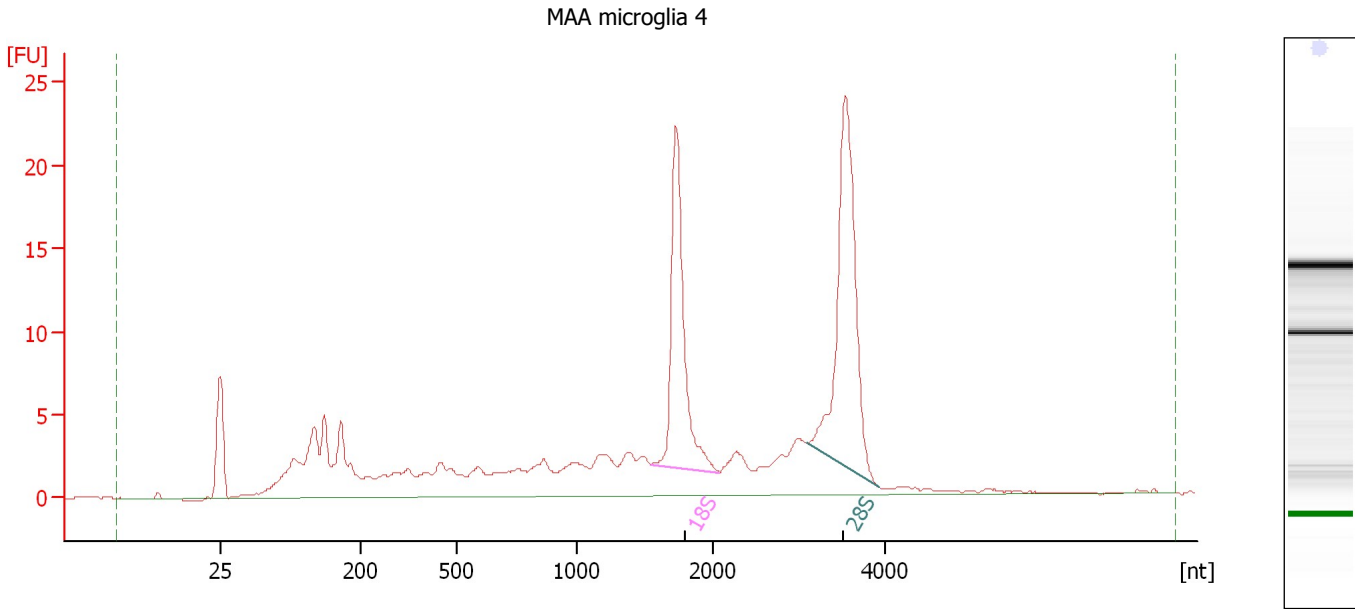
Fragment table for sample 3 : MAA microglia 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,531	2,050	45.5	14.3
28S	3,087	3,921	62.5	19.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MAA microglia 4

RNA Area: 210.5 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 2,690 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.50

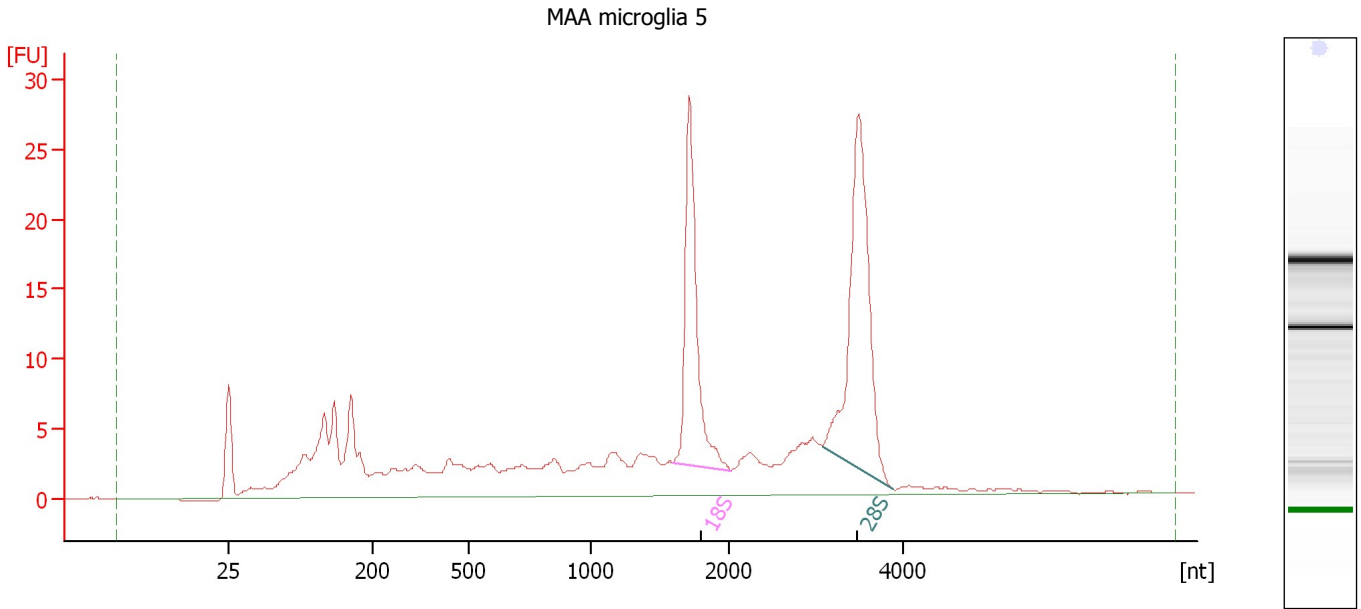
Fragment table for sample 4 : MAA microglia 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,540	2,079	29.3	13.9
28S	3,090	3,951	40.5	19.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
 Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MAA microglia 5

RNA Area:	263.8	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	3,372 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.30

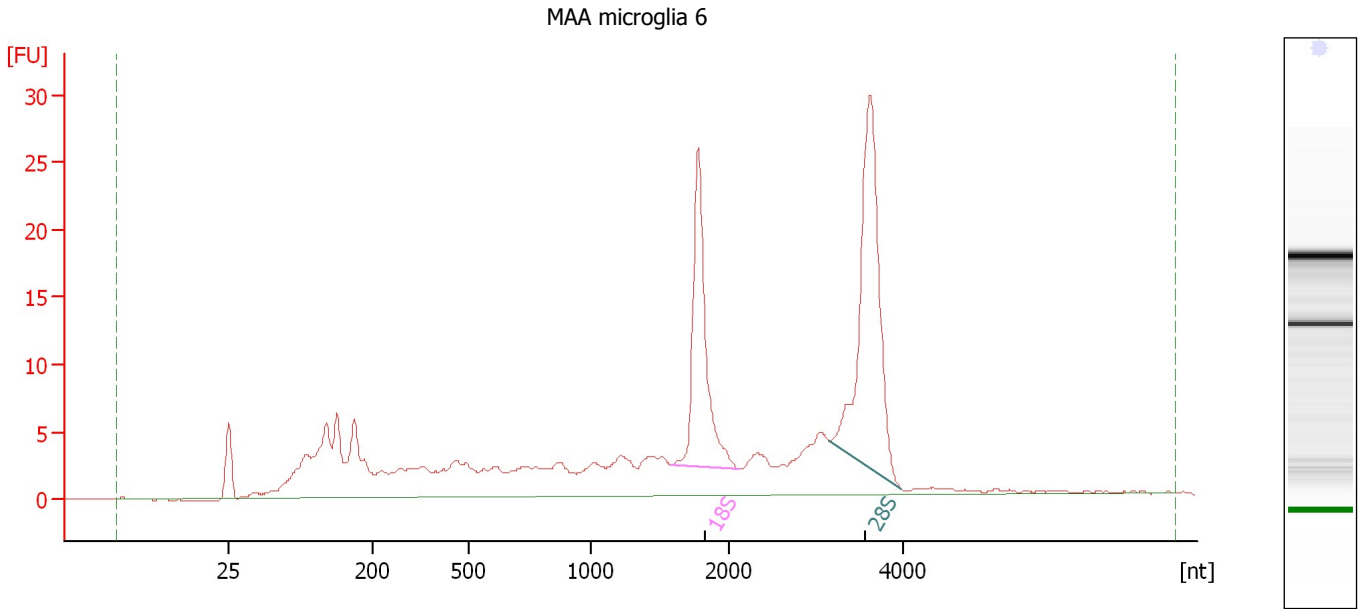
Fragment table for sample 5 : MAA microglia 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	2,009	34.0	12.9
28S	3,065	3,888	47.9	18.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MAA microglia 6

RNA Area: 272.0 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 3,477 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 7.50

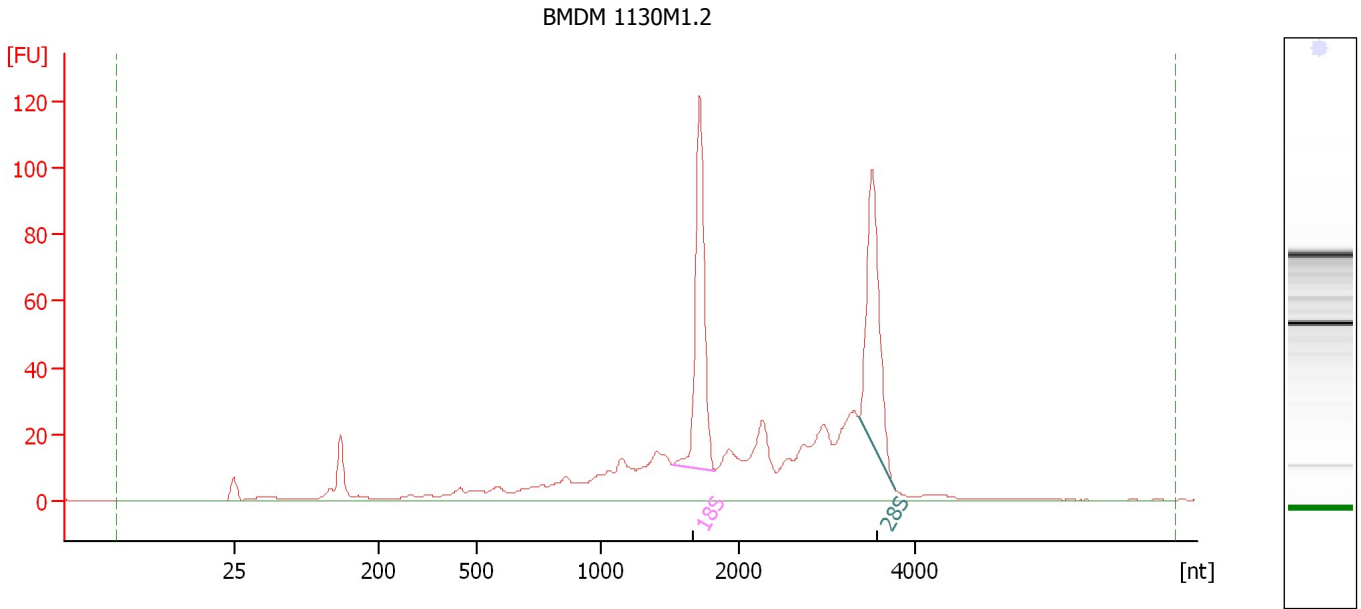
Fragment table for sample 6 : MAA microglia 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,574	2,107	34.5	12.7
28S	3,151	3,974	52.1	19.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BMDM 1130M1.2

RNA Area:	741.8	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	9,482 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.40

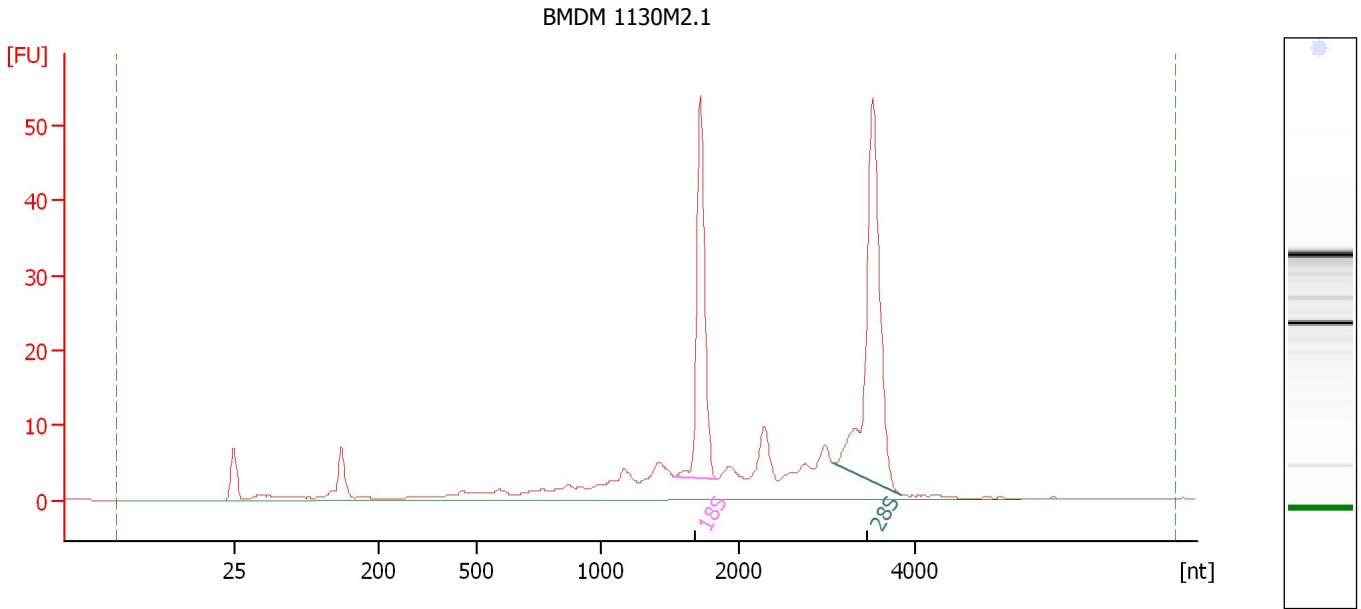
Fragment table for sample 7 : BMDM 1130M1.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,526	1,824	118.0	15.9
28S	3,362	3,763	101.1	13.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : BMDM 1130M2.1

RNA Area: 266.6 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 3,408 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.30

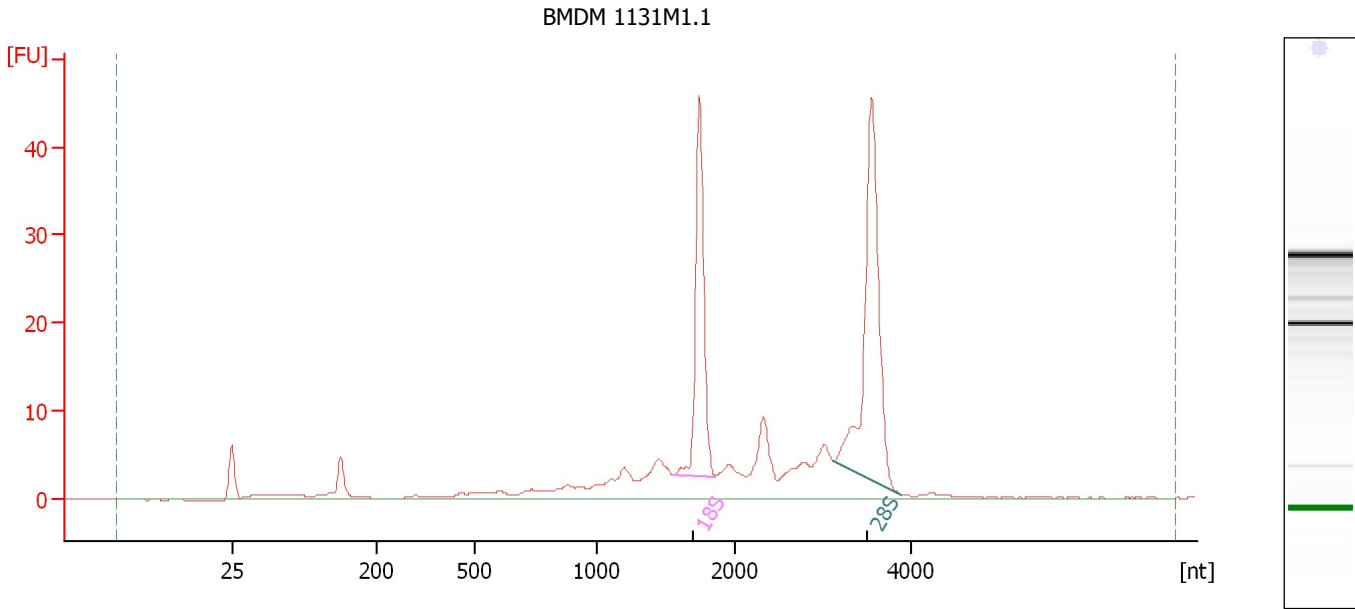
Fragment table for sample 8 : BMDM 1130M2.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,534	1,832	49.4	18.5
28S	3,070	3,836	71.2	26.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BMDM 1131M1.1

RNA Area:	225.8	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	2,886 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.40

Fragment table for sample 9 : BMDM 1131M1.1

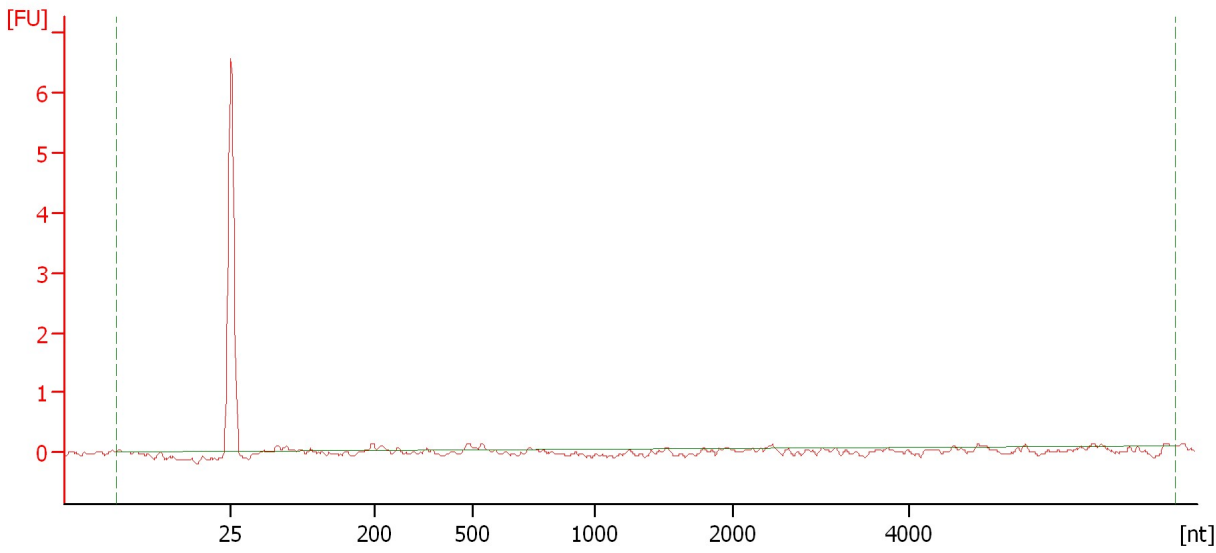
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,554	1,853	42.3	18.7
28S	3,122	3,879	60.9	27.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...

BMDM 1131M2.1



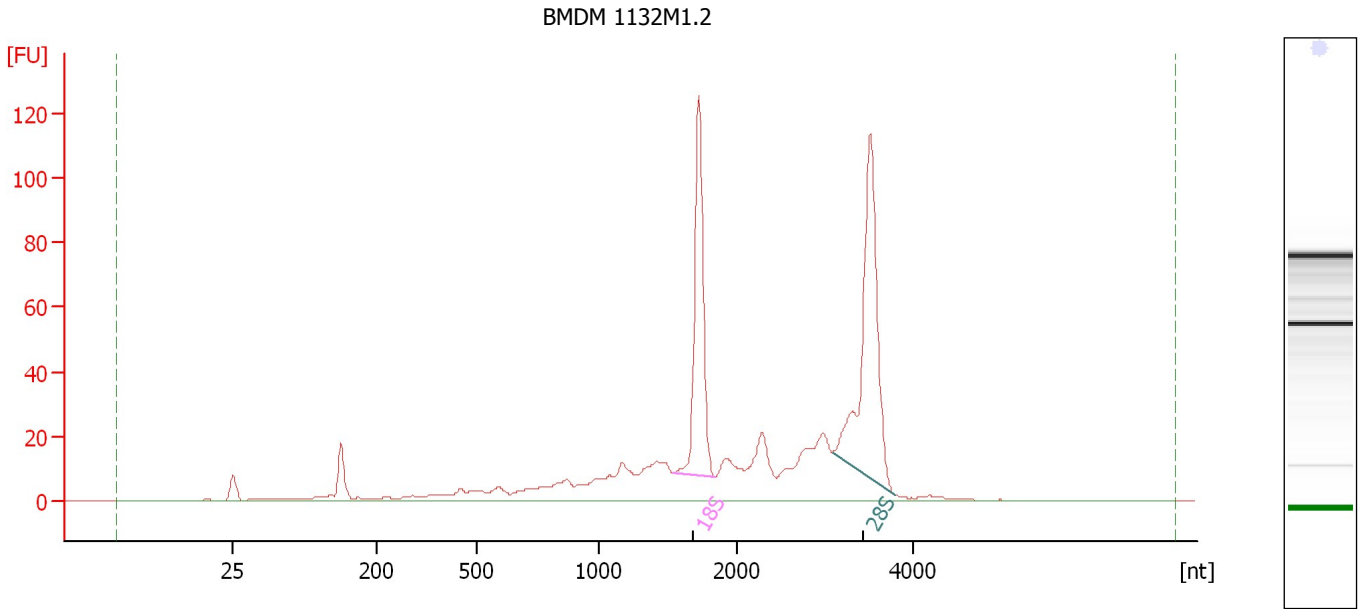
Overall Results for sample 10 : BMDM 1131M2.1

RNA Area:	0.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	11 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : BMDM 1132M1.2

RNA Area: 702.9 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 8,984 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 7.90

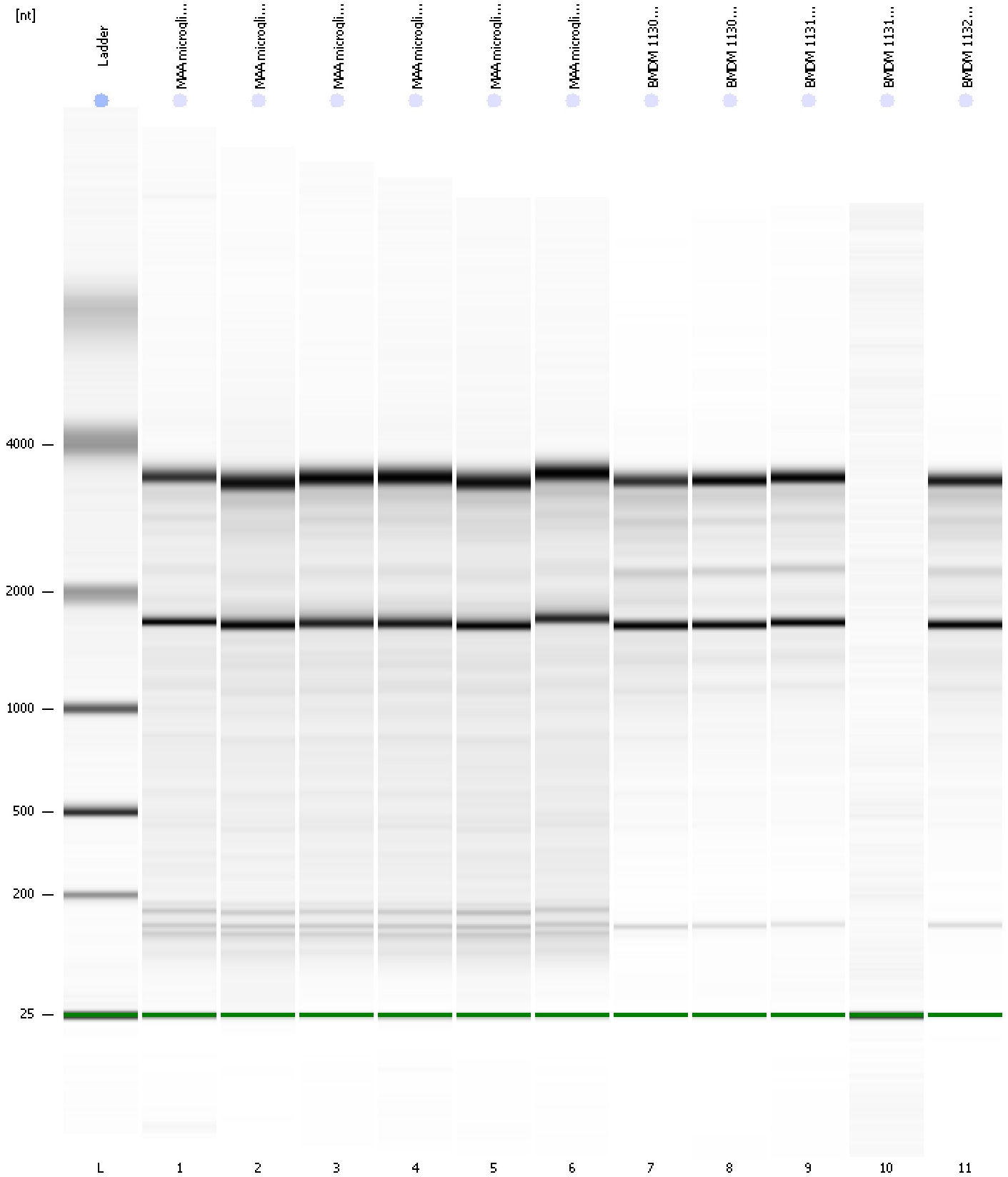
Fragment table for sample 11 : BMDM 1132M1.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,540	1,831	119.9	17.1
28S	3,084	3,803	156.8	22.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Gel Image

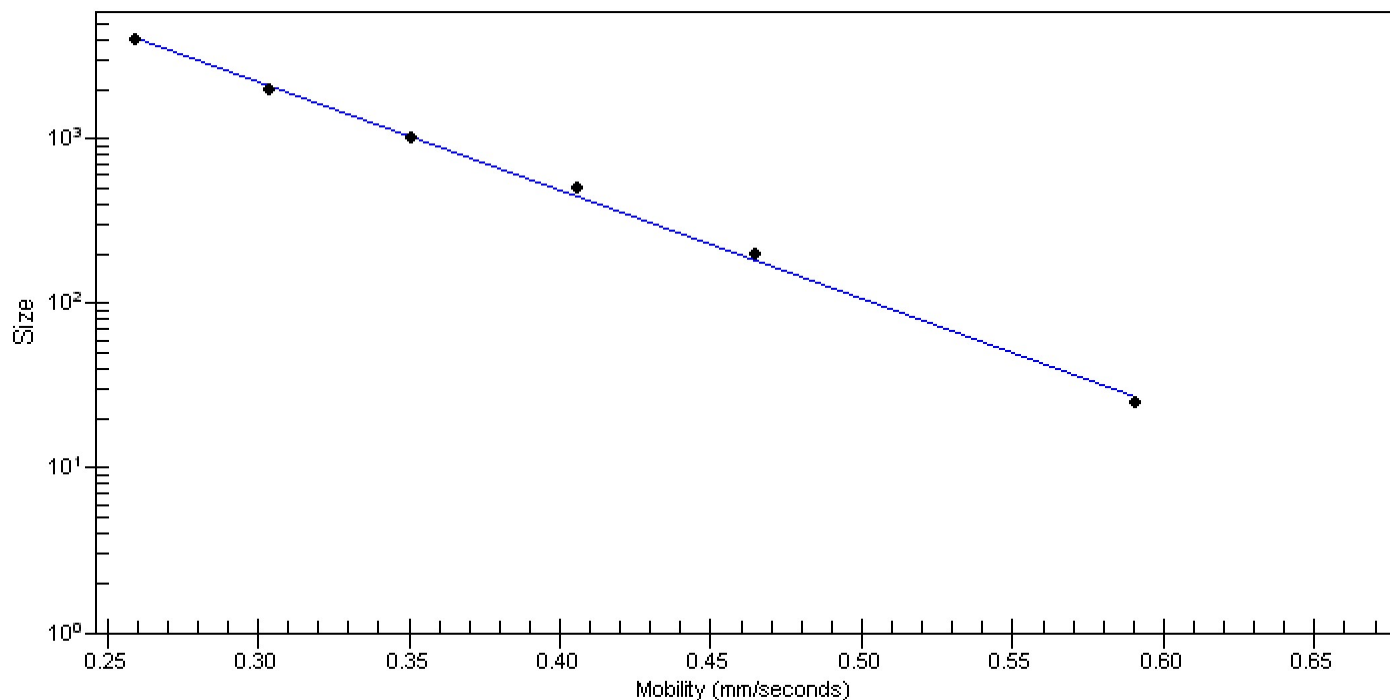


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
Modified: 11/6/2015 4:36:07 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad

Created: 11/6/2015 4:13:13 PM
 Modified: 11/6/2015 4:36:07 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		11/6/2015 2:36:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-06\2015-11-06_002.xad)		Instrument	Run		11/6/2015 2:13:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/6/2015 2:13:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/6/2015 2:13:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/6/2015 2:13:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/6/2015 2:13:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/6/2015 2:13:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/6/2015 2:13:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1