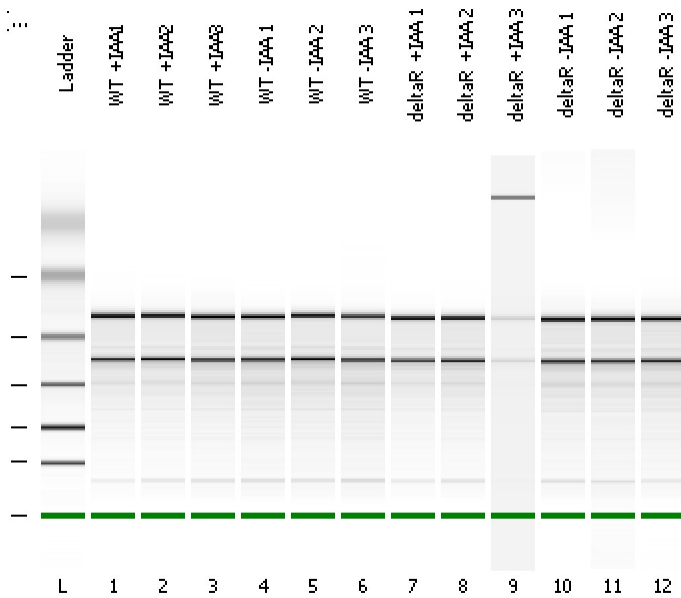


Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 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\Prokaryote Total RNA Nano Series II.xsy

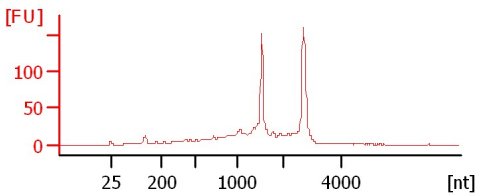
Assay Class: Prokaryote Total RNA Nano  
Version: 2.5  
Assay Comments: Total RNA Analysis ng sensitivity (Prokaryote)

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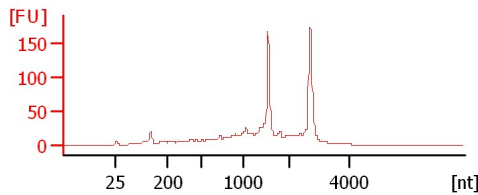
Chip Information:

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

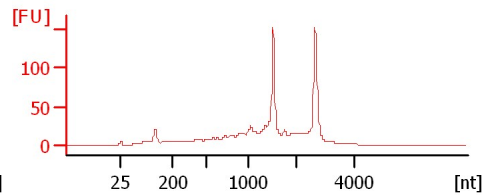
WT + IAA1



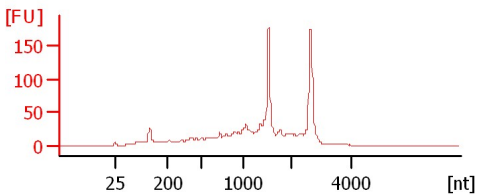
WT + IAA2



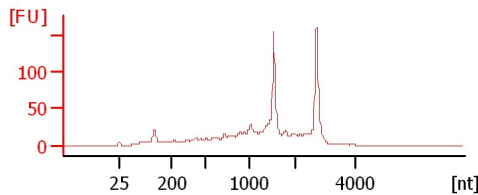
WT + IAA3



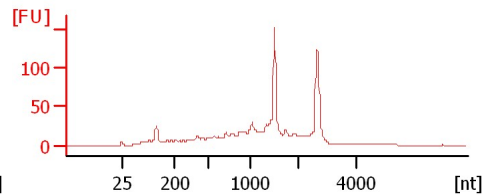
WT - IAA 1



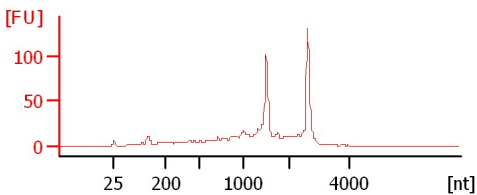
WT - IAA 2



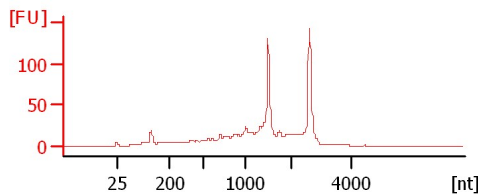
WT - IAA 3



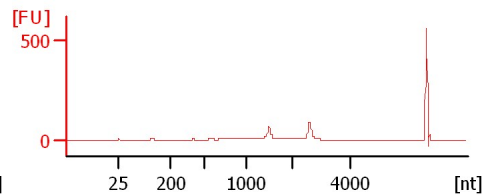
deltaR + IAA 1



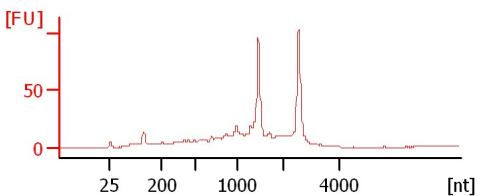
deltaR + IAA 2



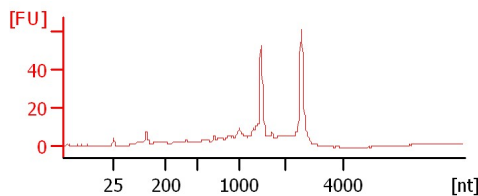
deltaR + IAA 3



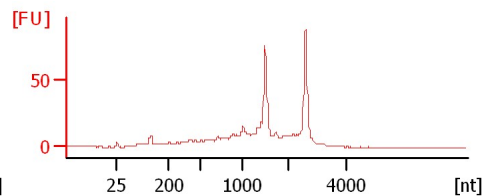
deltaR - IAA 1



deltaR - IAA 2



deltaR - IAA 3



Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
WT +IAA1		✓		
WT +IAA2		✓		
WT +IAA3		✓		
WT -IAA 1		✓		
WT -IAA 2		✓		
WT -IAA 3		✓		
deltaR +IAA 1		✓		
deltaR +IAA 2		✓		
deltaR +IAA 3		✓		
deltaR -IAA 1		✓		
deltaR -IAA 2		✓		
deltaR -IAA 3		✓		
Ladder		✓		

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

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 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

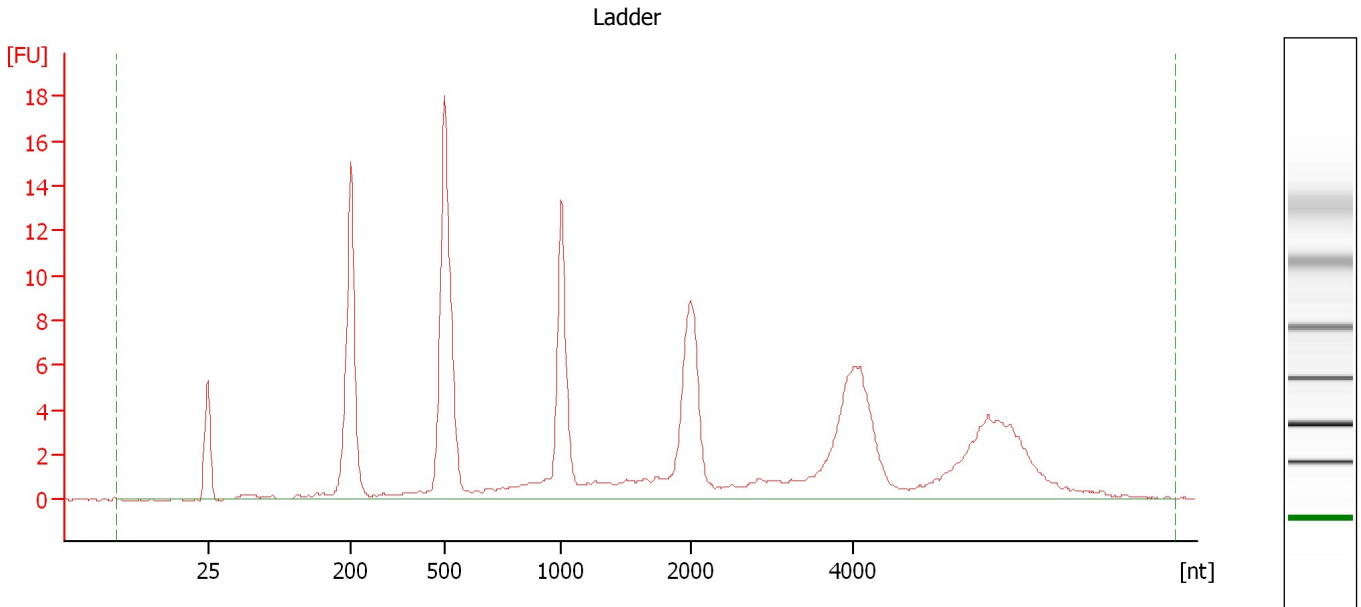
### Ladder

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

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary**



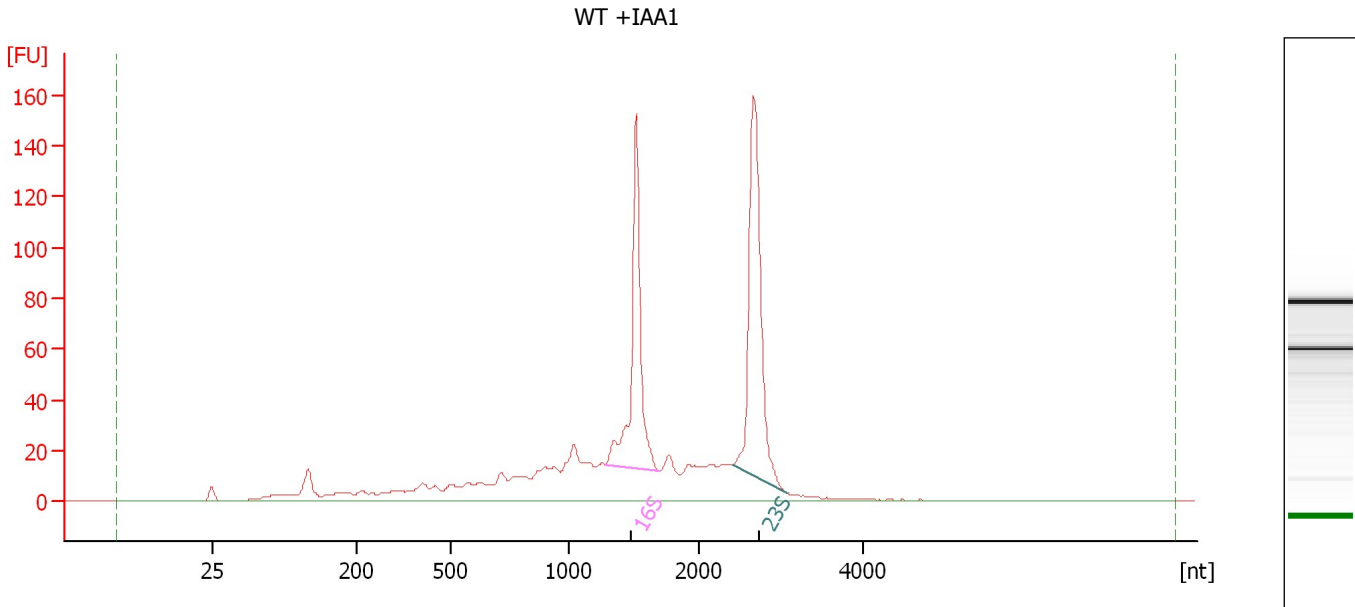
**Overall Results for Ladder**

RNA Area: 152.2                      RNA Concentration: 150 ng/μl

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : WT + IAA1**

RNA Area: 886.9 rRNA Ratio [23s / 16s]: 1.2  
RNA Concentration: 874 ng/μl RNA Integrity Number (RIN): 7.5 (B.02.08)

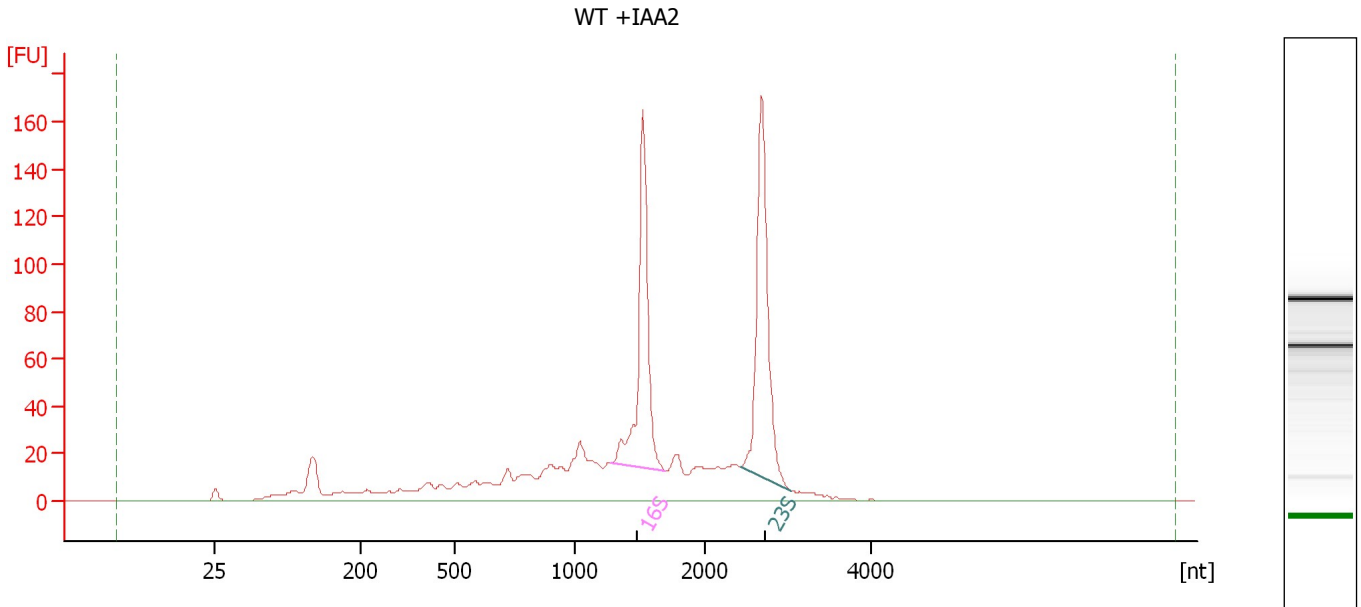
**Fragment table for sample 1 : WT + IAA1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,280	1,698	153.5	17.3
23S	2,407	3,072	191.1	21.5

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : WT + IAA2**

RNA Area: 980.4                      rRNA Ratio [23s / 16s]: 1.2  
RNA Concentration: 966 ng/μl                      RNA Integrity Number (RIN): 7.3 (B.02.08)

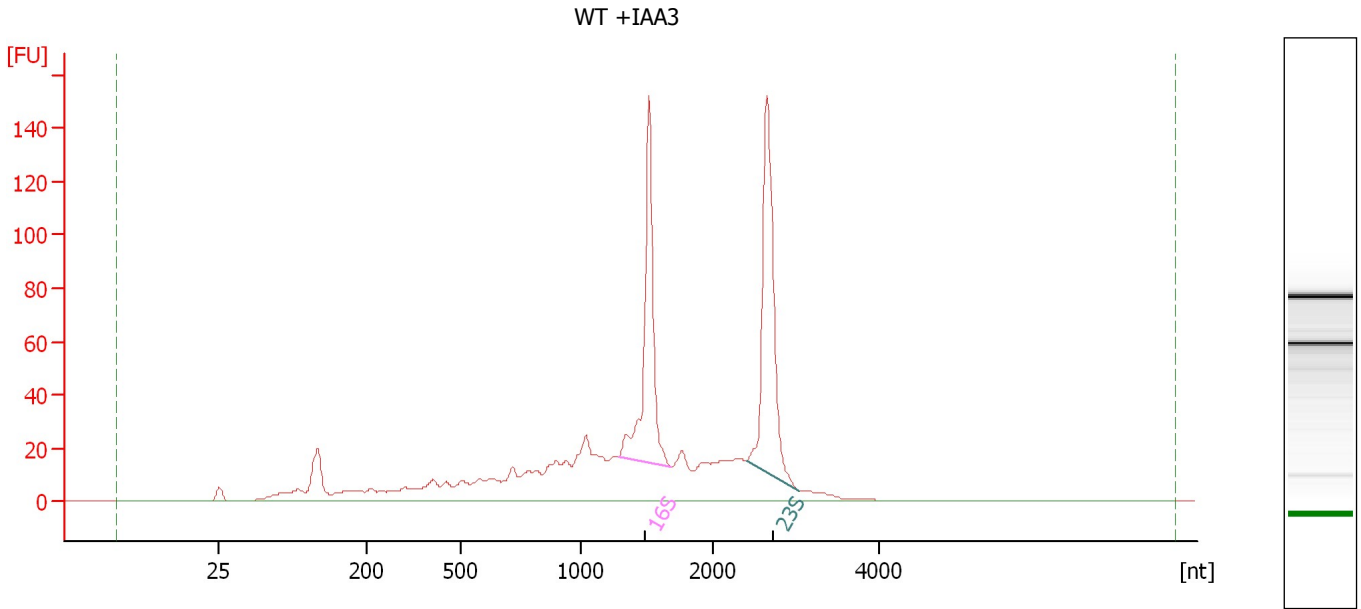
**Fragment table for sample 2 : WT + IAA2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,286	1,693	165.5	16.9
23S	2,432	3,041	194.2	19.8

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : WT + IAA3**

RNA Area: 947.6                      rRNA Ratio [23s / 16s]: 1.1  
RNA Concentration: 934 ng/μl              RNA Integrity Number (RIN): 7.1 (B.02.08)

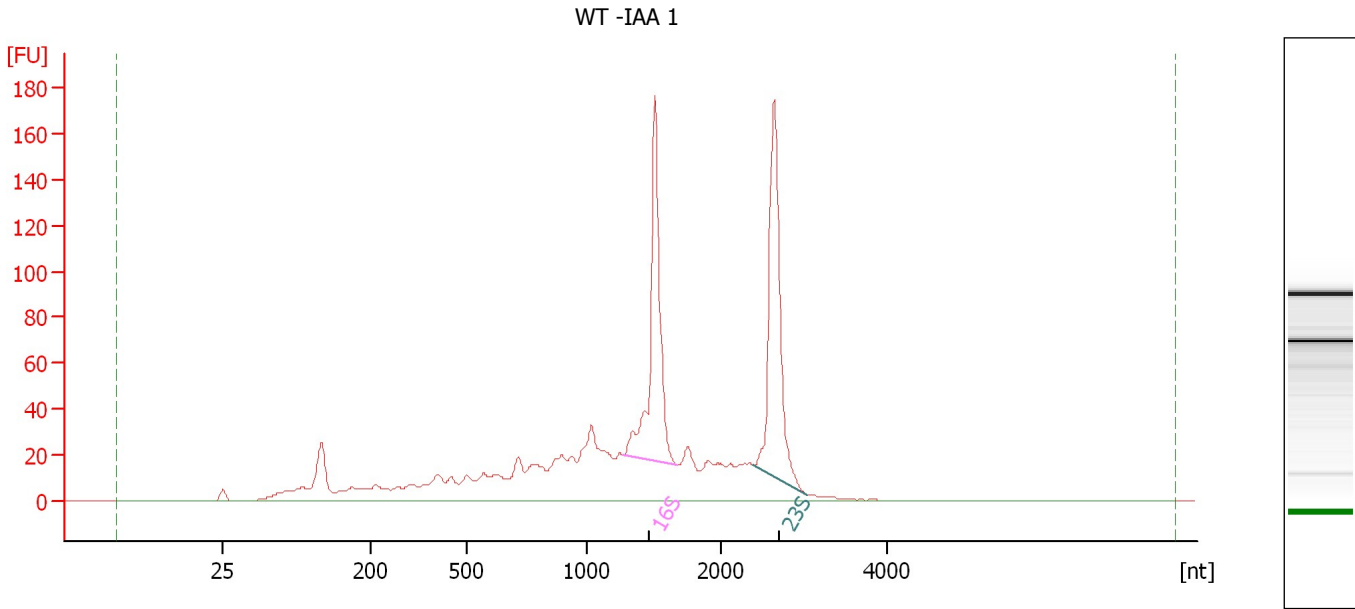
**Fragment table for sample 3 : WT + IAA3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,277	1,681	147.9	15.6
23S	2,392	3,035	167.1	17.6

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : WT -IAA 1**

RNA Area: 1,157.3 rRNA Ratio [23s / 16s]: 1.0  
RNA Concentration: 1,140 ng/μl RNA Integrity Number (RIN): 6.9 (B.02.08)

**Fragment table for sample 4 : WT -IAA 1**

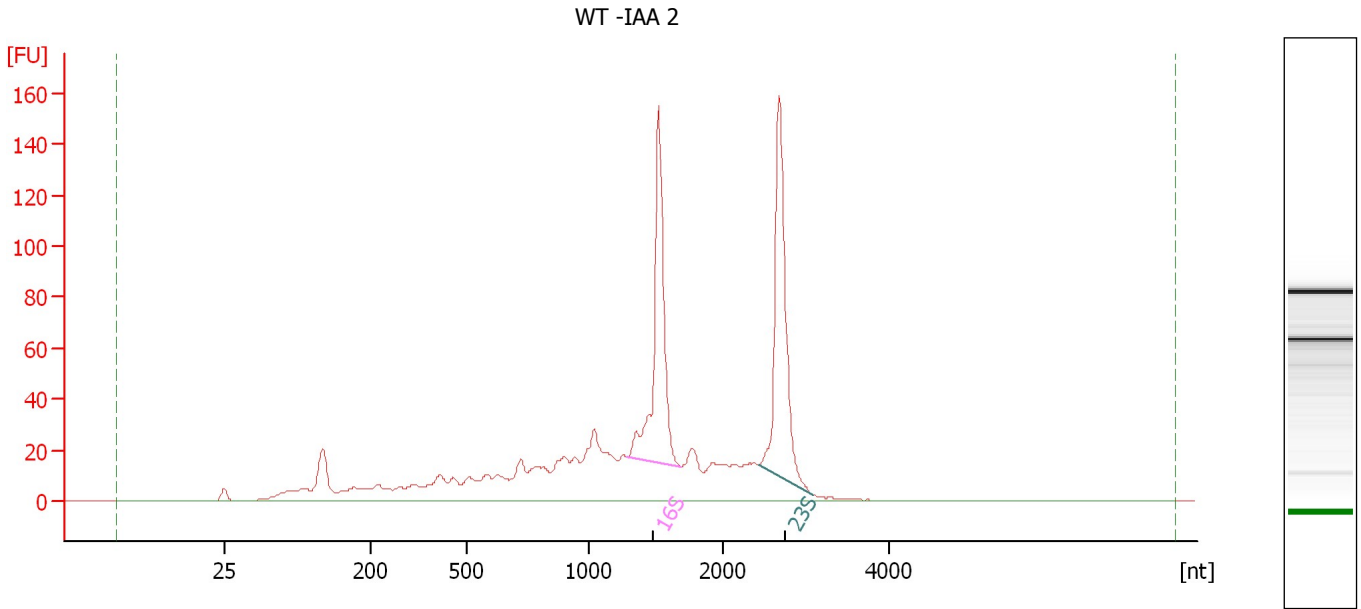
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,274	1,676	181.9	15.7
23S	2,404	3,031	190.7	16.5



Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : WT -IAA 2**

RNA Area: 1,023.2 rRNA Ratio [23s / 16s]: 1.1  
RNA Concentration: 1,008 ng/μl RNA Integrity Number (RIN): 7 (B.02.08)

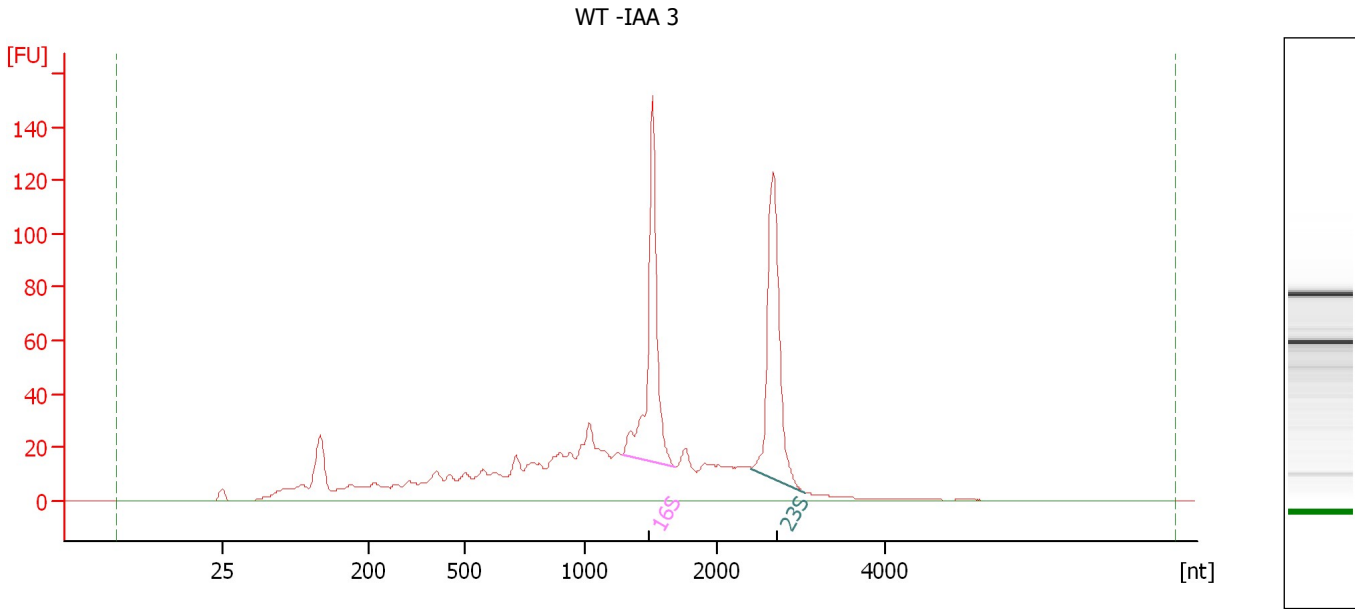
**Fragment table for sample 5 : WT -IAA 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,284	1,693	158.3	15.5
23S	2,442	3,080	172.5	16.9

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : WT -IAA 3**

RNA Area: 997.9 rRNA Ratio [23s / 16s]: 1.0  
RNA Concentration: 983 ng/μl RNA Integrity Number (RIN): 6.7 (B.02.08)

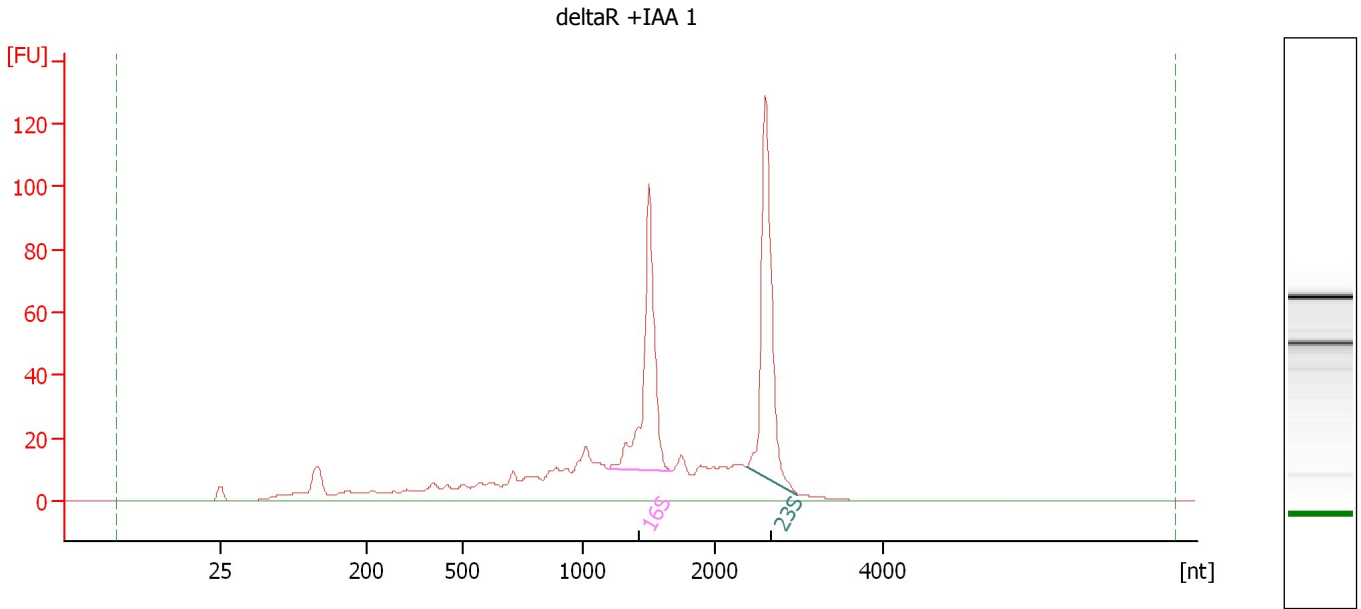
**Fragment table for sample 6 : WT -IAA 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,281	1,675	148.3	14.9
23S	2,405	3,032	144.4	14.5

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
 Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : deltaR +IAA 1**

RNA Area: 691.0                      rRNA Ratio [23s / 16s]: 1.1  
 RNA Concentration: 681 ng/μl              RNA Integrity Number (RIN): 7.7 (B.02.08)

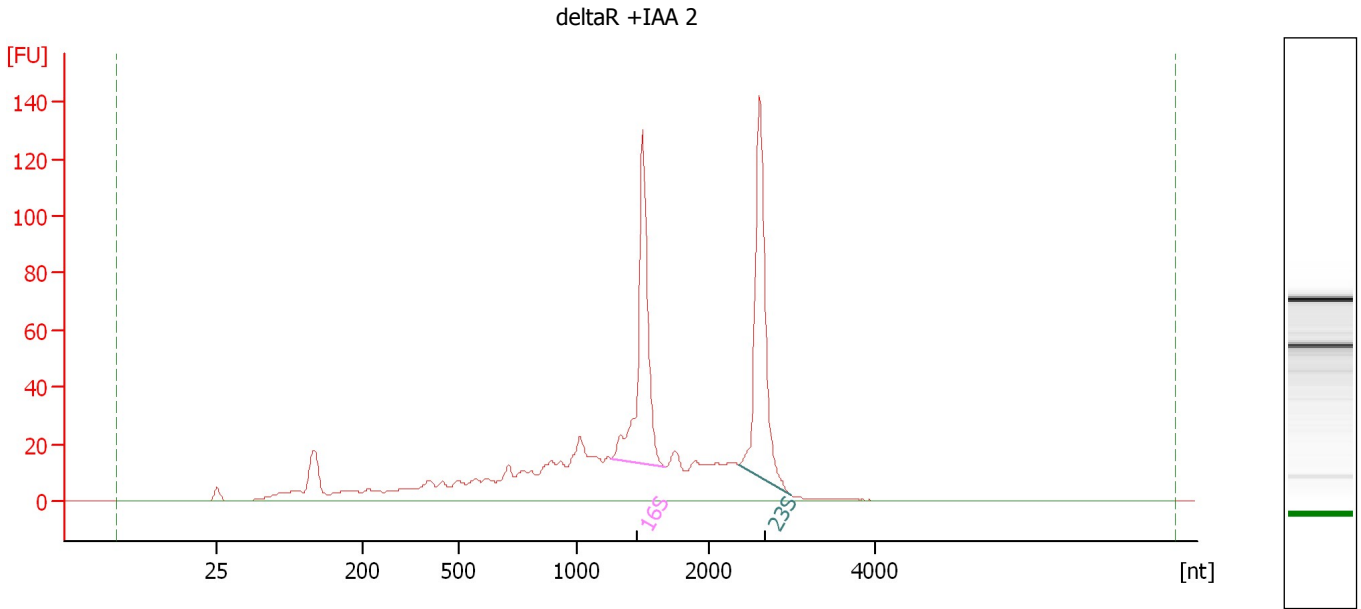
**Fragment table for sample 7 : deltaR +IAA 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,190	1,666	119.4	17.3
23S	2,366	2,982	134.9	19.5

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : deltaR +IAA 2**

RNA Area: 841.7                      rRNA Ratio [23s / 16s]: 1.1  
RNA Concentration: 829 ng/μl              RNA Integrity Number (RIN): 7.2 (B.02.08)

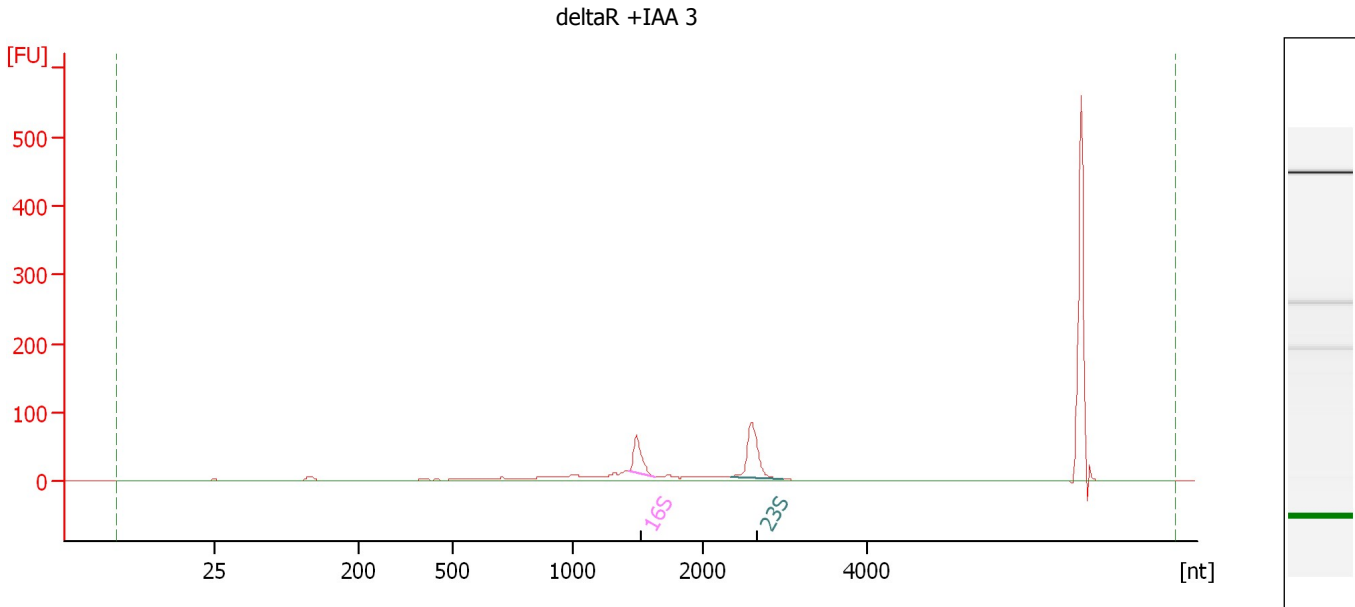
**Fragment table for sample 8 : deltaR +IAA 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,257	1,662	133.8	15.9
23S	2,354	2,987	149.3	17.7

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : deltaR +IAA 3**

RNA Area: 712.5 rRNA Ratio [23s / 16s]: 1.7  
RNA Concentration: 702 ng/μl RNA Integrity Number (RIN): 7.4 (B.02.08)

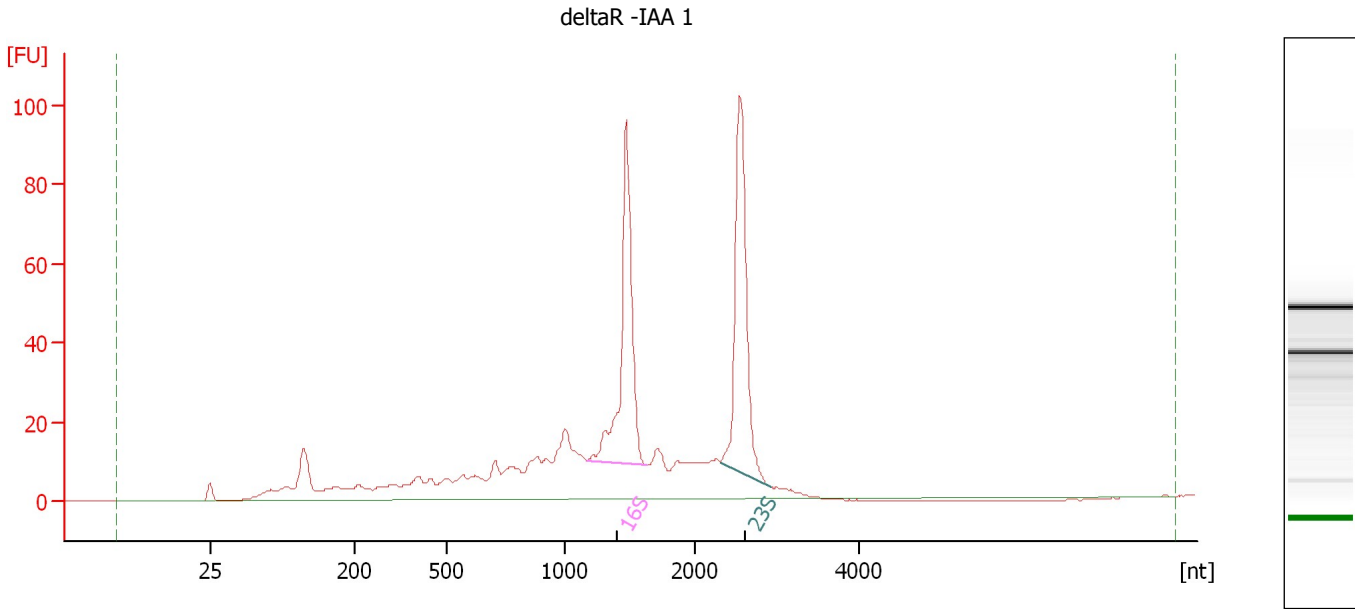
**Fragment table for sample 9 : deltaR +IAA 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,431	1,635	54.1	7.6
23S	2,328	2,978	92.5	13.0

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : deltaR -IAA 1**

RNA Area: 647.3                      rRNA Ratio [23s / 16s]: 1.0  
RNA Concentration: 638 ng/μl              RNA Integrity Number (RIN): 7.2 (B.02.08)

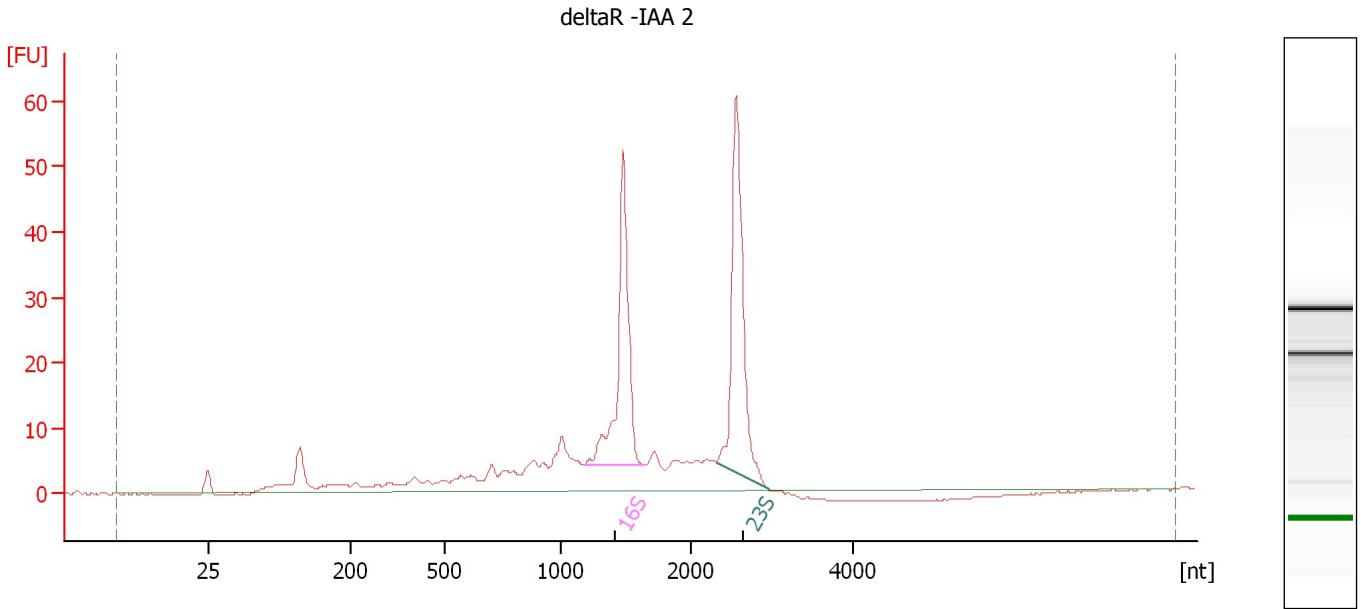
**Fragment table for sample 10 : deltaR -IAA 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,169	1,630	111.3	17.2
23S	2,315	2,931	115.4	17.8

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
 Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : deltaR -IAA 2**

RNA Area: 302.4                      rRNA Ratio [23s / 16s]: 1.1  
 RNA Concentration: 298 ng/μl              RNA Integrity Number (RIN): 7.6 (B.02.08)

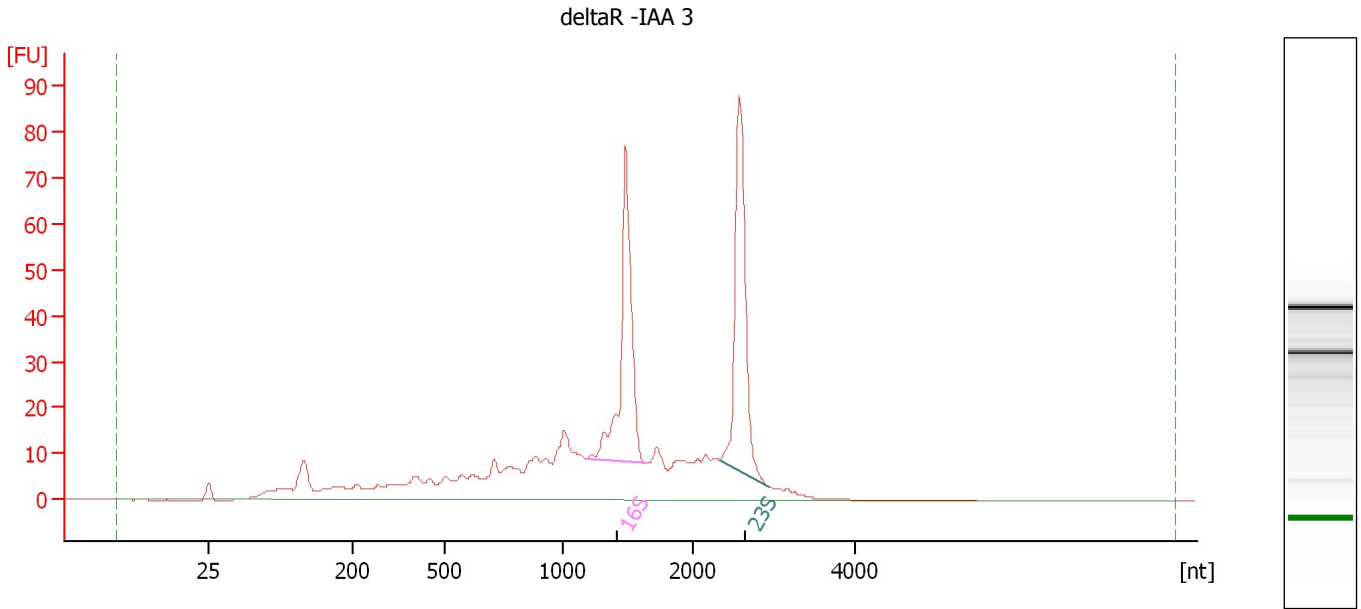
**Fragment table for sample 11 : deltaR -IAA 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,173	1,644	62.5	20.7
23S	2,315	2,960	71.2	23.6

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
 Modified: 4/12/2016 11:04:00 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : deltaR -IAA 3**

RNA Area: 557.4                      rRNA Ratio [23s / 16s]: 1.0  
 RNA Concentration: 549 ng/μl              RNA Integrity Number (RIN): 7.2 (B.02.08)

**Fragment table for sample 12 : deltaR -IAA 3**

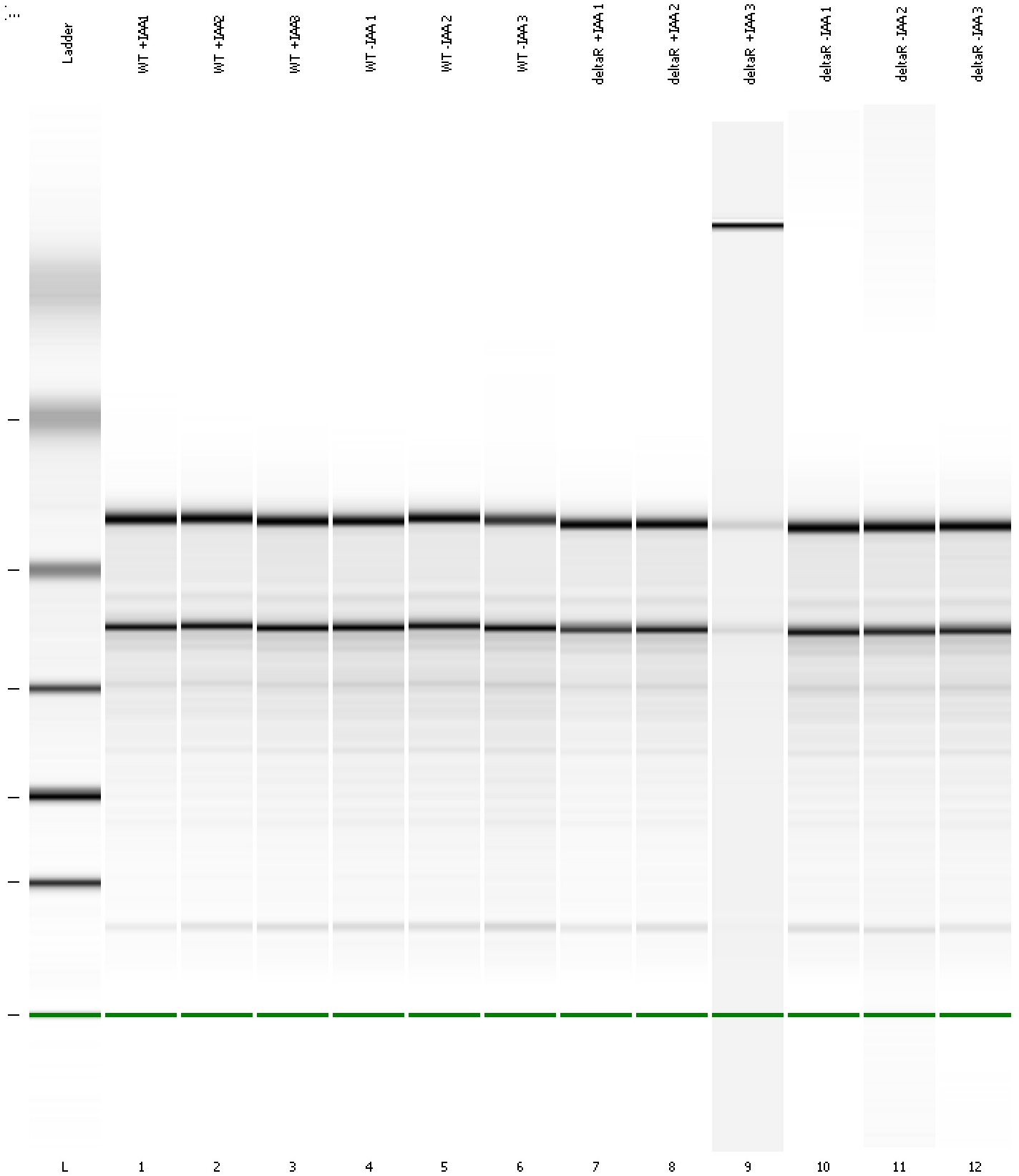
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,175	1,645	88.6	15.9
23S	2,342	2,932	92.2	16.5



Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Gel Image**

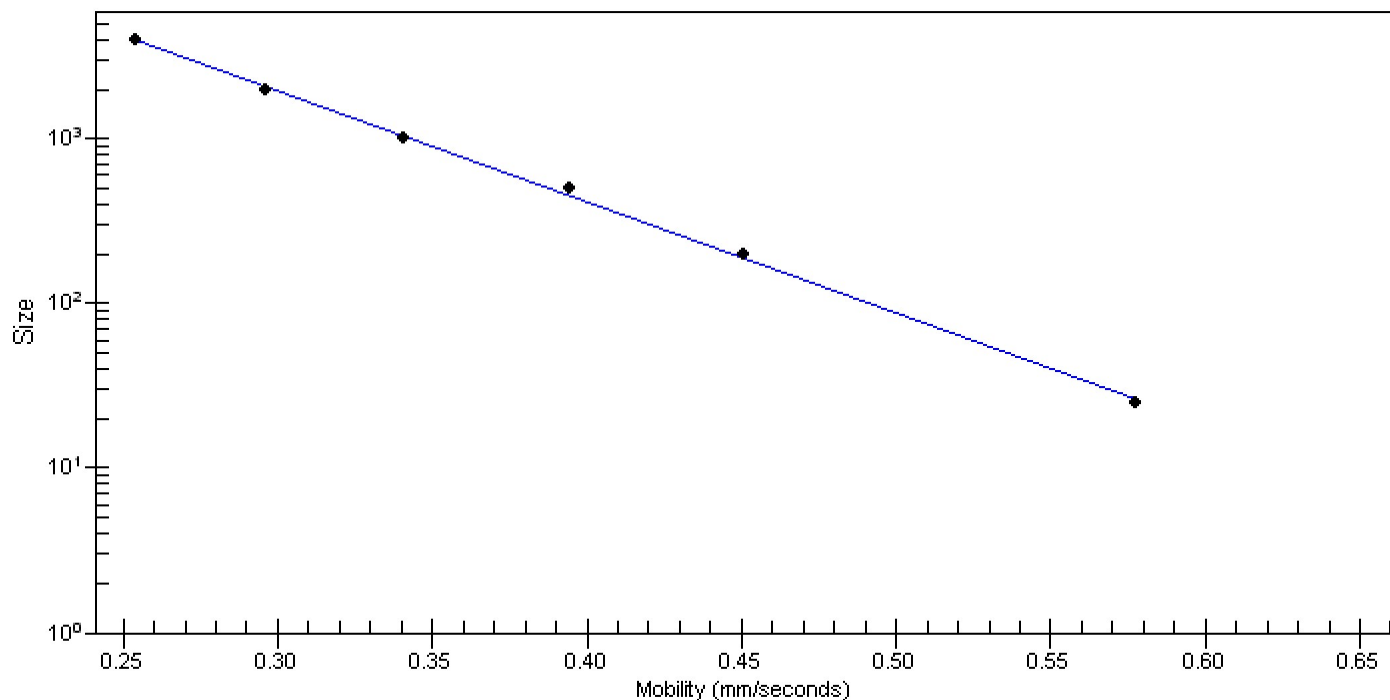


Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
Modified: 4/12/2016 11:04:00 AM

**Curves**

**Standard Curve**



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...2100 expert\data\2016-04-12\2016-04-12\_001\_LF7\_RNAseq\_2.xad

Created: 4/12/2016 10:39:10 AM  
 Modified: 4/12/2016 11:04:00 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		4/12/2016 11:02:58 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\2016-04-12\2016-04-12_001.xad)		Instrument	Run		4/12/2016 10:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/12/2016 10:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/12/2016 10:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/12/2016 10:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/12/2016 10:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/12/2016 10:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/12/2016 10:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1