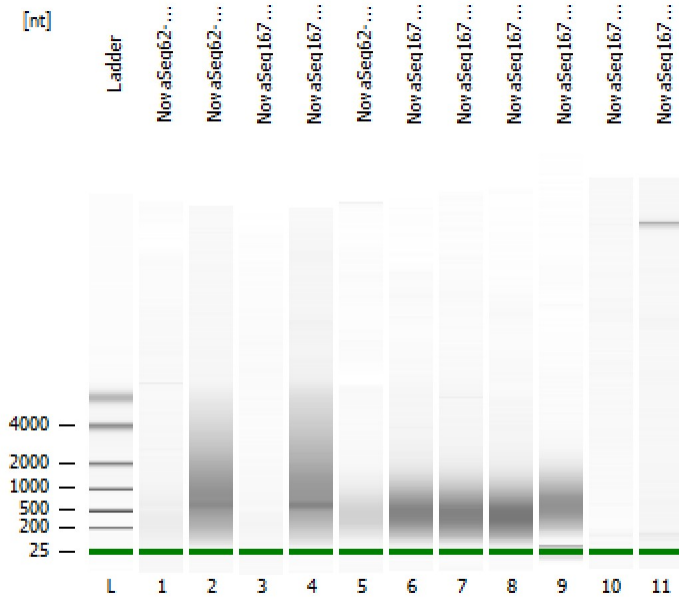


Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

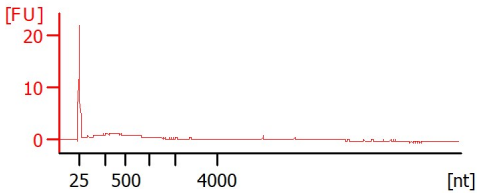
Assay Class: mRNA Pico  
Version: 2.6  
Assay Comments: mRNA Analysis pg sensitivity

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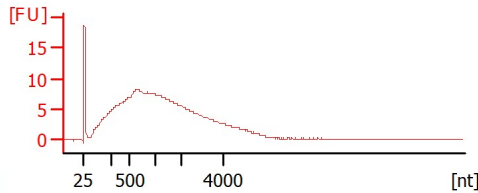
Chip Information:

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

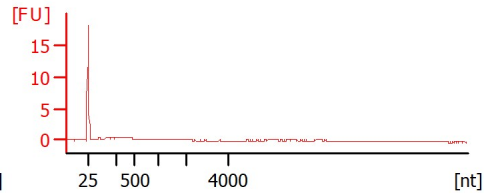
NovaSeq62-42 Gold BC DNA\_Soni before BC  
Yihui's DNA as control



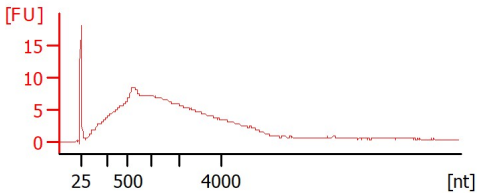
NovaSeq62-42 Gold BC DNA\_NO Soni befo...  
Yihui's DNA as control



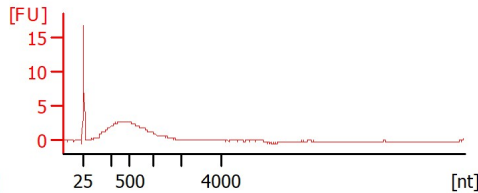
NovaSeq167-1 Gold BC DNA\_Soni before BC



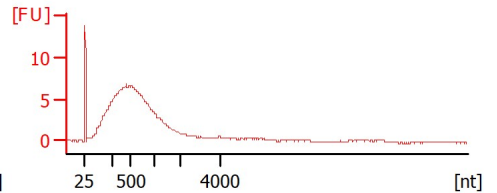
NovaSeq167-1 Gold BC DNA\_NO Soni befo...



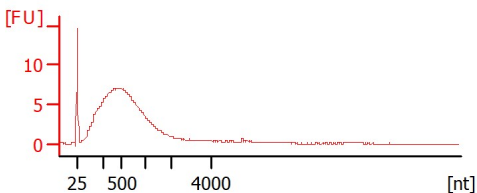
NovaSeq62-42 BC DNA\_Lightning  
Yihui's DNA as control



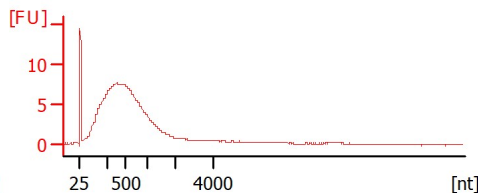
NovaSeq167-1 Lightning BC DNA\_Soni\_cl...



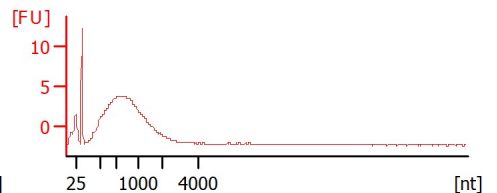
NovaSeq167-2 Lightning BC DNA\_Soni\_cl...



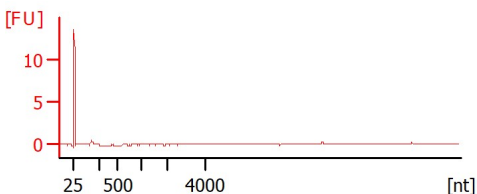
NovaSeq167-3 Lightning BC DNA\_Soni\_cl...



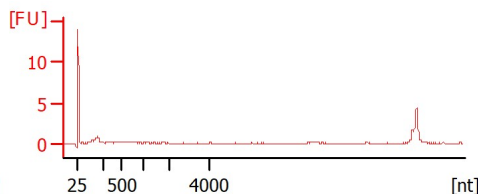
NovaSeq167-14 Lightning BC DNA\_Soni\_c...



NovaSeq167-2 Lightning BC DNA\_Soni\_NO...



NovaSeq167-14 Lightning BC DNA\_Soni\_N...





Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
 Modified: 5/26/2020 5:33:55 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
 Minimum Visible Range [s] : 14  
 Maximum Visible Range [s] : 85  
 Start Analysis Time Range [s] : 15  
 End Analysis Time Range [s] : 84  
 Ladder Concentration [pg/μl] : 1000  
 Lower Marker Concentration [pg/μl] : 0  
 Upper Marker Concentration [pg/μl] : 0  
 Used Lower Marker for Quantitation  
 Standard Curve Fit is Logarithmic  
 Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 15  
 Integration End Time [s] : 84  
 Slope Threshold : 0.2  
 Height Threshold [FU] : 0.5  
 Area Threshold : 0.1  
 Width Threshold [s] : 0.2  
 Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
 Polynomial Order : 4

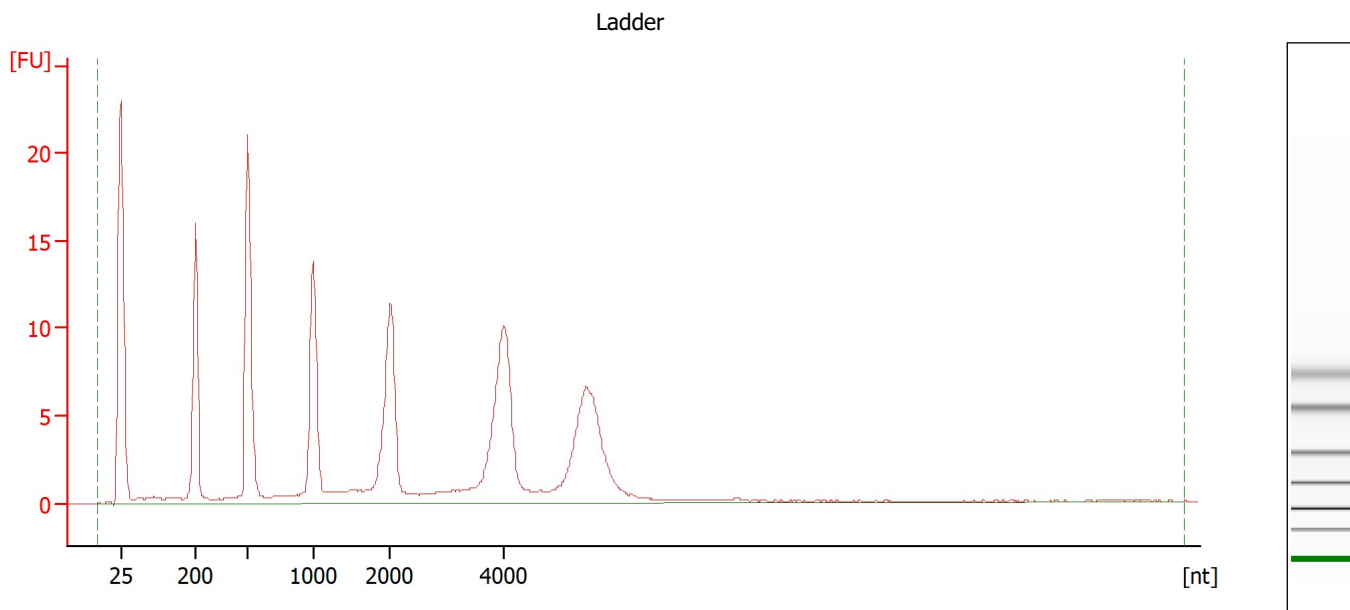
**Ladder**

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

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary**



**Overall Results for Ladder**

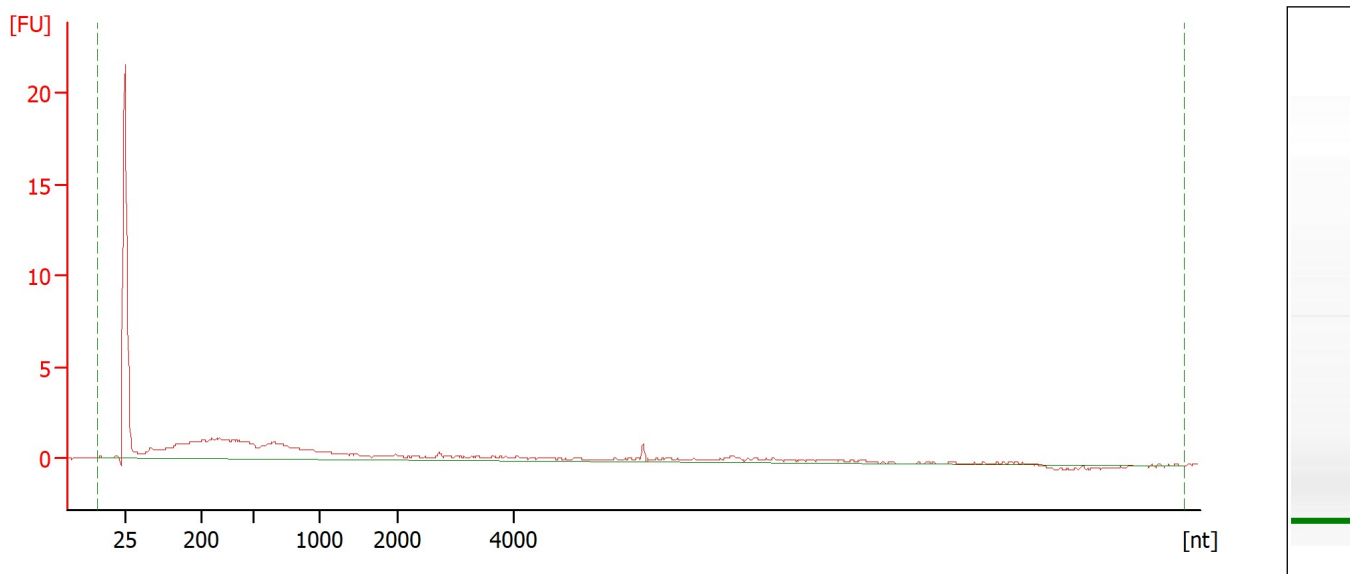
RNA Area: 205.6                      RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary Continued ...**

NovaSeq62-42 Gold BC DNA\_Soni before BC [ Yihui's DNA as control ]



**Overall Results for sample 1 : NovaSeq62-42 Gold BC DNA\_Soni before BC**

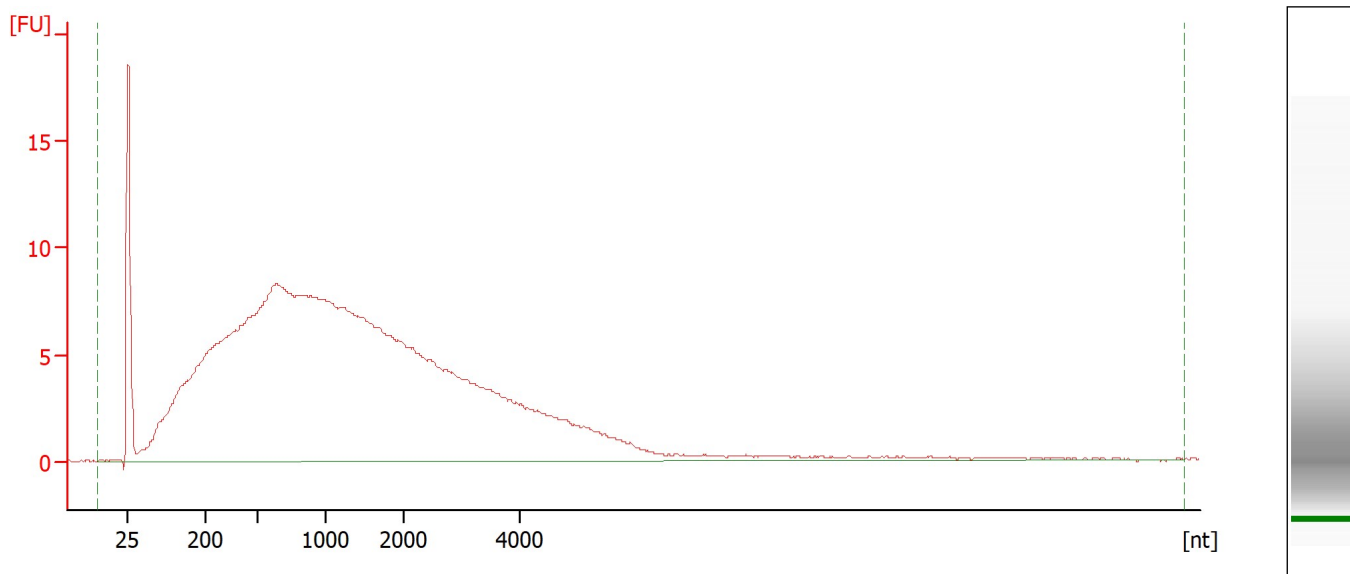
RNA Area: 52.0                      rRNA Contamination: 0.0 %  
RNA Concentration: 253 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary Continued ...**

NovaSeq62-42 Gold BC DNA\_NO Soni before BC [ Yihui's DNA as control ]



**Overall Results for sample 2 : NovaSeq62-42 Gold BC DNA NO Soni before BC**

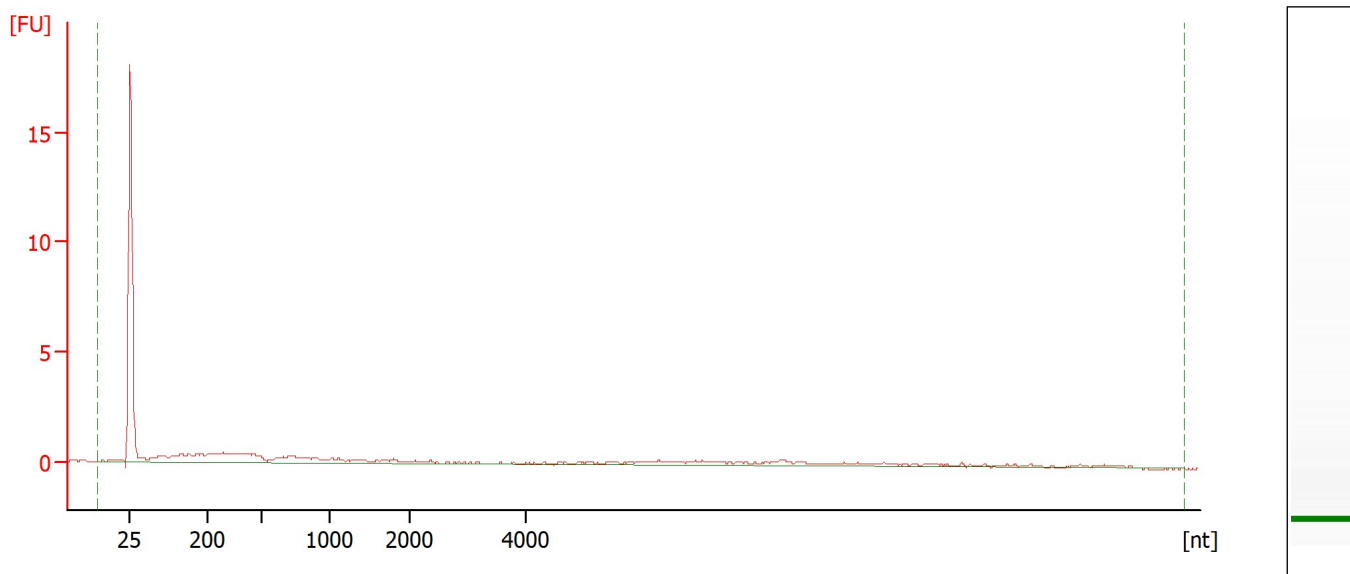
RNA Area: 463.5                      rRNA Contamination: 0.0 %  
RNA Concentration: 2,254 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary Continued ...**

NovaSeq167-1 Gold BC DNA\_Soni before BC



**Overall Results for sample 3 : NovaSeq167-1 Gold BC DNA\_Soni before BC**

RNA Area: 27.0                      rRNA Contamination: 0.0 %  
RNA Concentration: 132 pg/μl





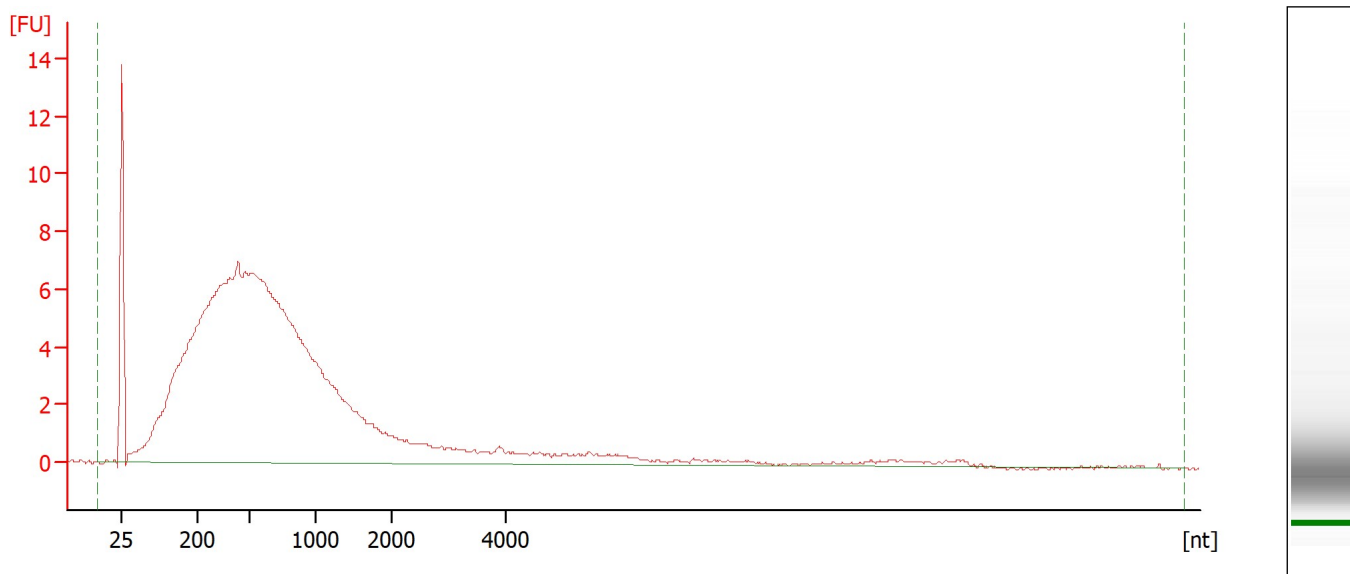


Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary Continued ...**

NovaSeq167-1 Lightning BC DNA\_Soni\_cleaned before BC



**Overall Results for sample 6 : NovaSeq167-1 Lightning BC DNA\_Soni\_cleaned before BC**

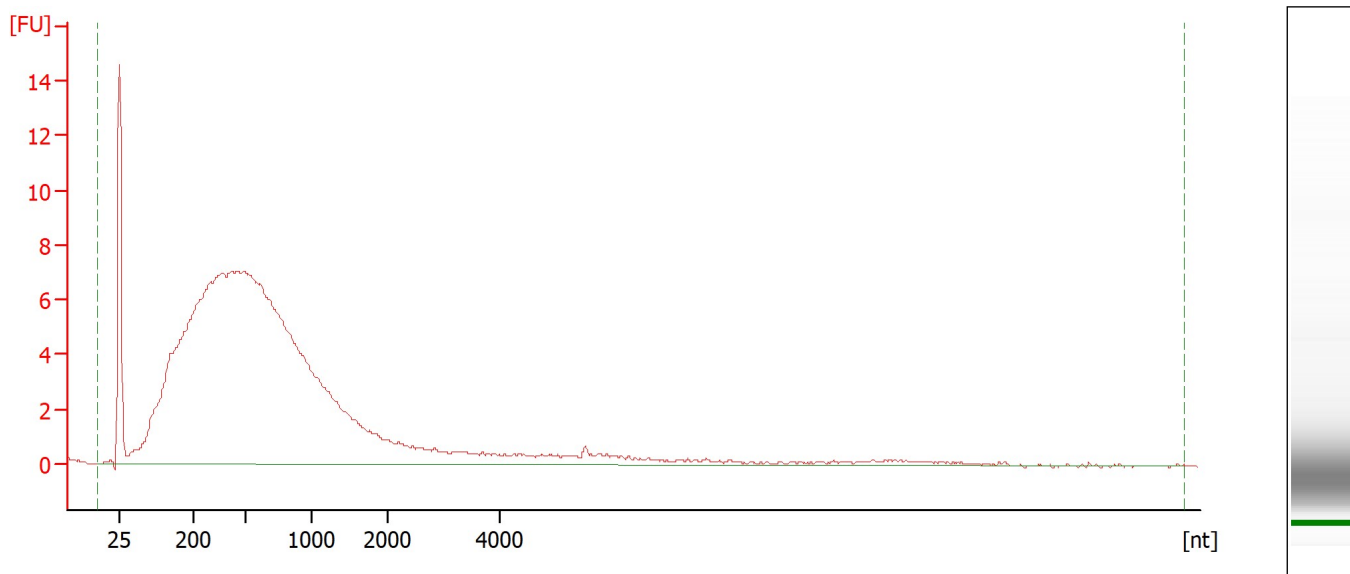
RNA Area: 259.3                      rRNA Contamination: 0.0 %  
RNA Concentration: 1,261 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary Continued ...**

NovaSeq167-2 Lightning BC DNA\_Soni\_cleaned before BC



**Overall Results for sample 7 : NovaSeq167-2 Lightning BC DNA\_Soni\_cleaned before BC**

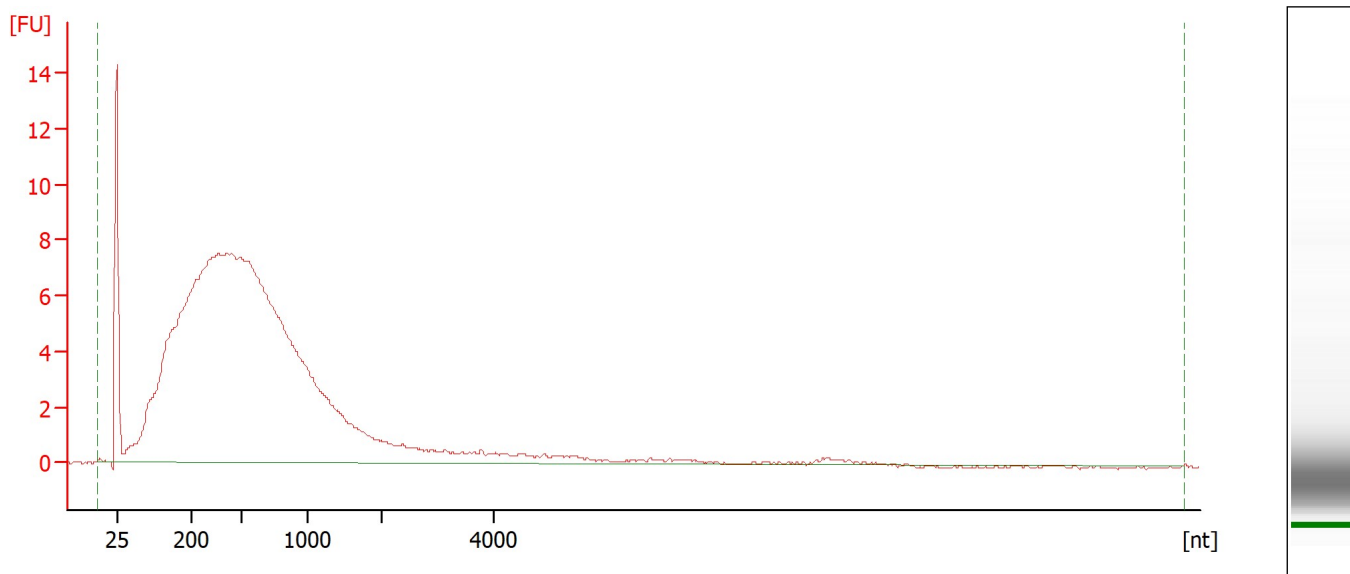
RNA Area: 281.6                      rRNA Contamination: 0.0 %  
RNA Concentration: 1,369 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary Continued ...**

NovaSeq167-3 Lightning BC DNA\_Soni\_cleaned before BC



**Overall Results for sample 8 : NovaSeq167-3 Lightning BC DNA\_Soni\_cleaned before BC**

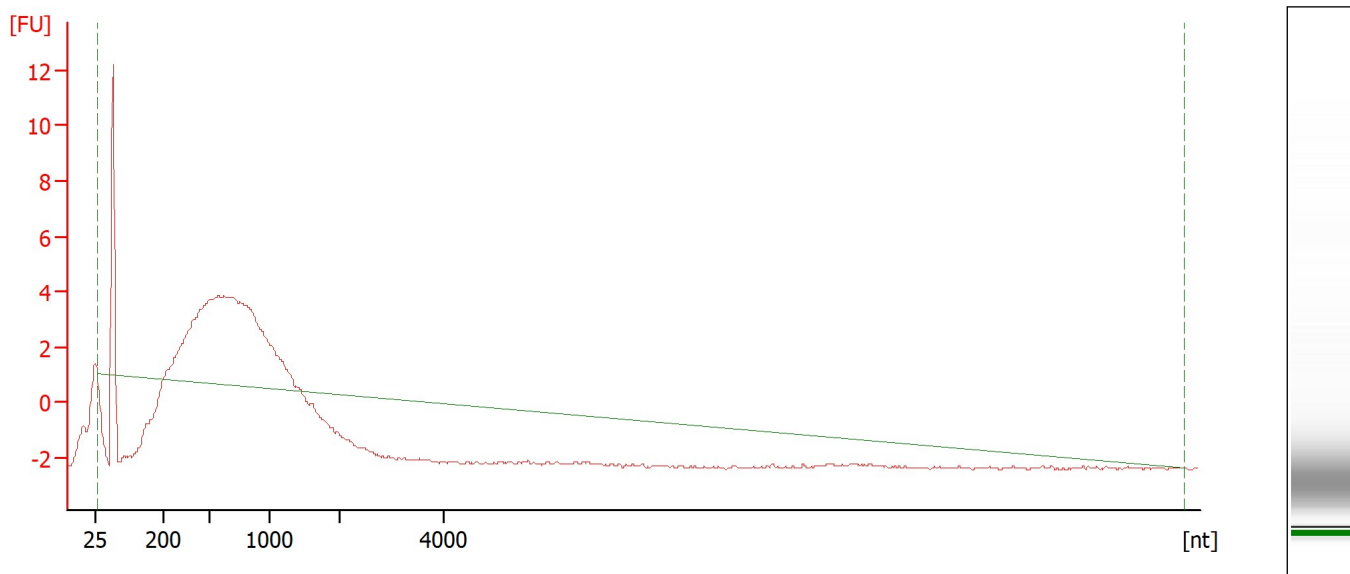
RNA Area: 285.5                      rRNA Contamination: 0.0 %  
RNA Concentration: 1,388 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary Continued ...**

NovaSeq167-14 Lightning BC DNA\_Soni\_cleaned before BC



**Overall Results for sample 9 : NovaSeq167-14 Lightning BC DNA\_Soni\_cleaned before BC**

RNA Area: 81.2                      rRNA Contamination: 0.0 %  
RNA Concentration: 395 pg/μl

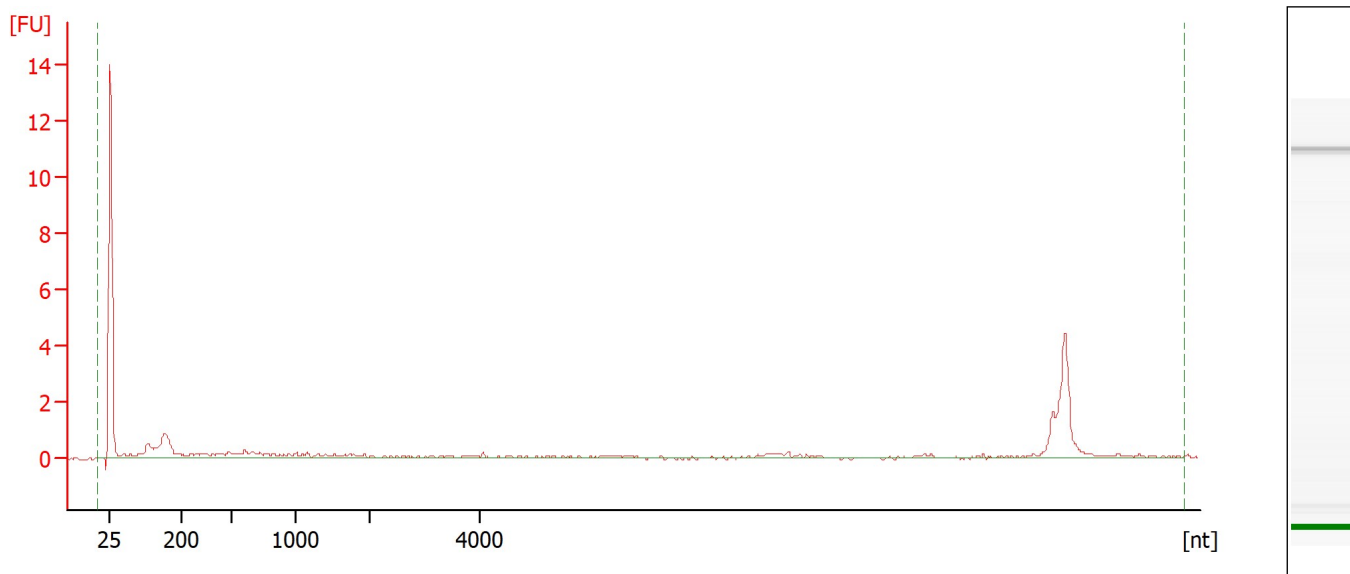


Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

**Electropherogram Summary Continued ...**

NovaSeq167-14 Lightning BC DNA\_Soni\_NOT cleaned before BC



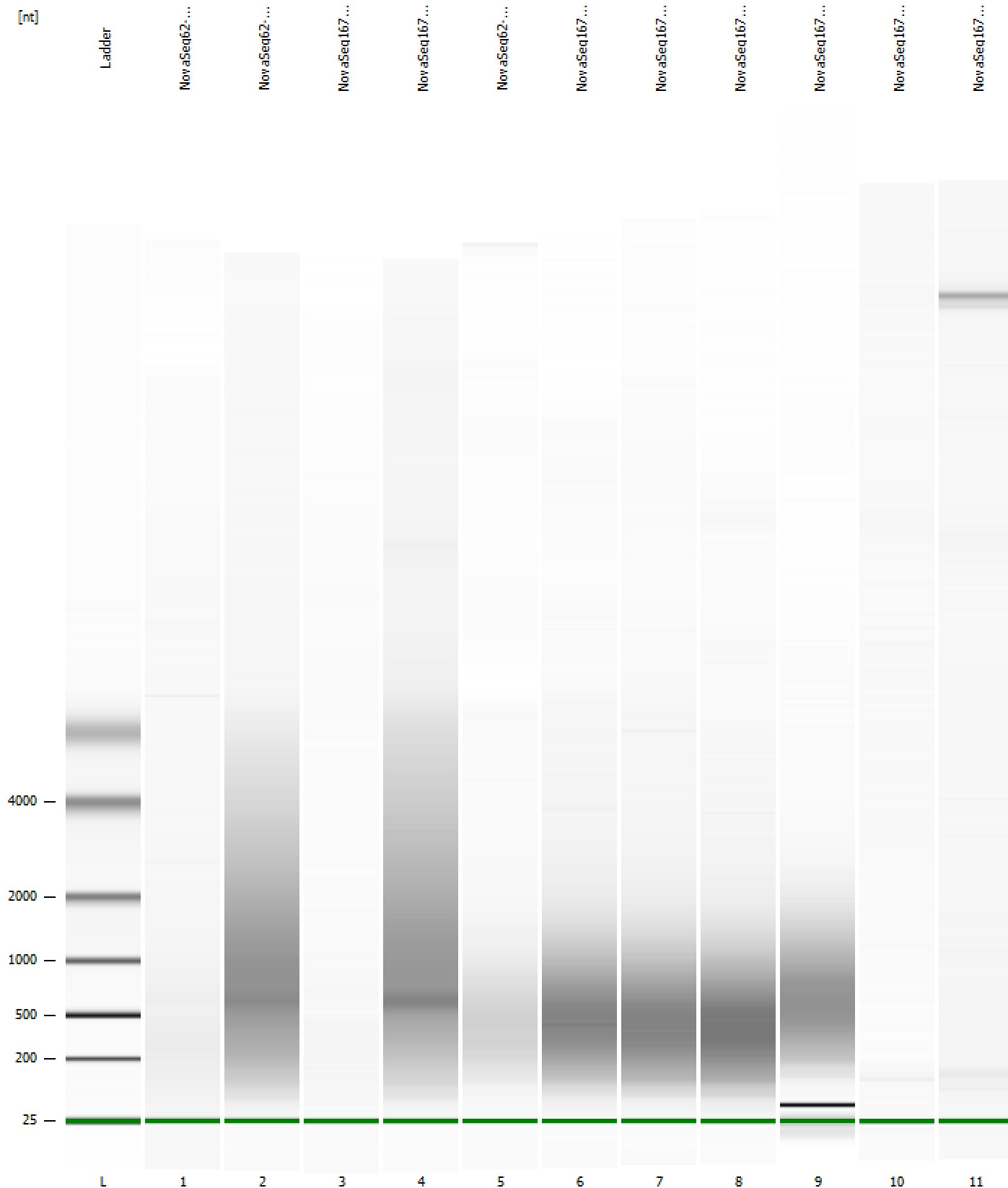
**Overall Results for sample 11 : NovaSeq167-14 Lightning BC DNA\_Soni\_NOT cleaned before BC**

RNA Area: 17.2                      rRNA Contamination: 0.0 %  
RNA Concentration: 84 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
Modified: 5/26/2020 5:33:55 PM

Gel Image





Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-05-26\Bioanalyzer1\_mRNA Pico\_2020-05-26\_001.xad

Created: 5/26/2020 5:00:47 PM  
 Modified: 5/26/2020 5:33:55 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		5/26/2020 5:26:39 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-05-26\Bioanalyze r1_mRNA Pico_2020-05-26_001.xad)		Instrument	Run		5/26/2020 5:00:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/26/2020 5:00:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/26/2020 5:00:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/26/2020 5:00:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/26/2020 5:00:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/26/2020 5:00:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/26/2020 5:00:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB