

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-07-19\QC1540.xad

Created: 7/19/2023 3:15:47 PM  
Modified: 7/19/2023 4:43:47 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\Eukaryote Total RNA Pico Series II.xsy

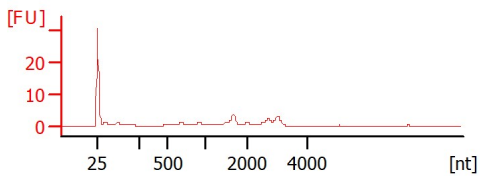
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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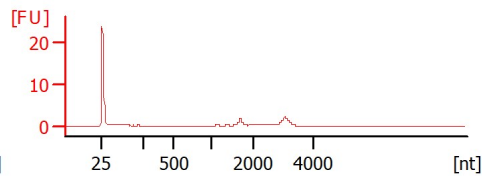
Chip Information:

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

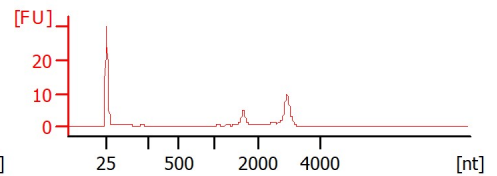
**QC1540-1**  
WTD1R8  
RIN: 7.30



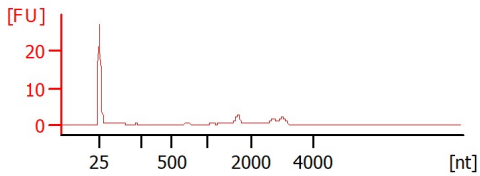
**QC1540-2**  
WTD3R8  
RIN: 8



**QC1540-3**  
WTD7R8  
RIN: 8.60



**QC1540-4**  
WTD0R8  
RIN: 7.30



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

Sample Name	Sample Comment	Status	Result Label	Result Color
QC1540-1	WTD1R8	✓	RIN: 7.30	
QC1540-2	WTD3R8	✓	RIN: 8	
QC1540-3	WTD7R8	✓	RIN: 8.60	
QC1540-4	WTD0R8	✓	RIN: 7.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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## 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/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 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

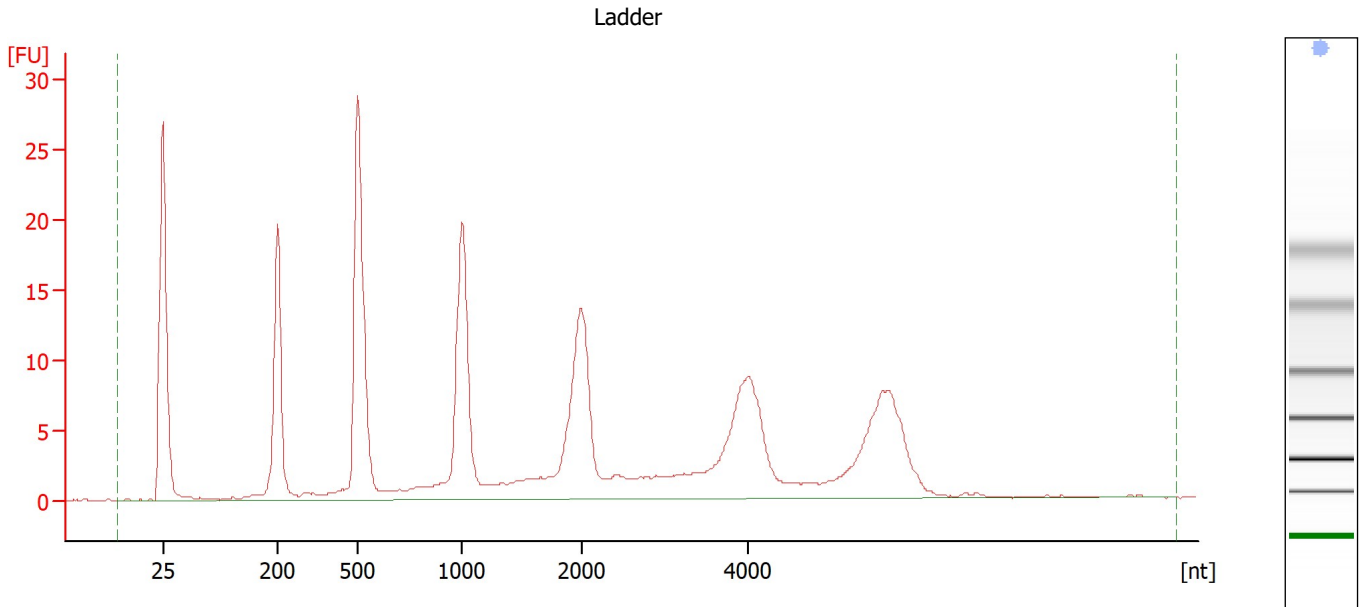
### Ladder

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

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**Electropherogram Summary**



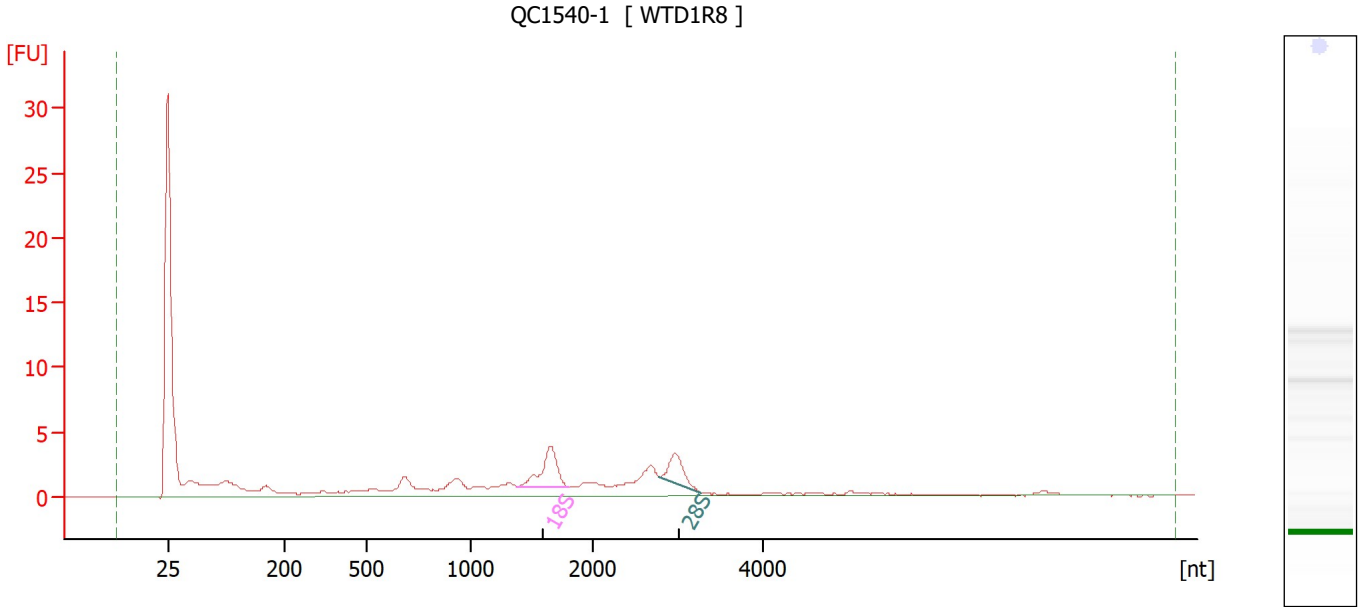
**Overall Results for Ladder**

RNA Area:	262.0	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : QC1540-1**

RNA Area: 65.2 RNA Integrity Number (RIN): 7.3 (B.02.10)  
RNA Concentration: 249 µg/µl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 7.30

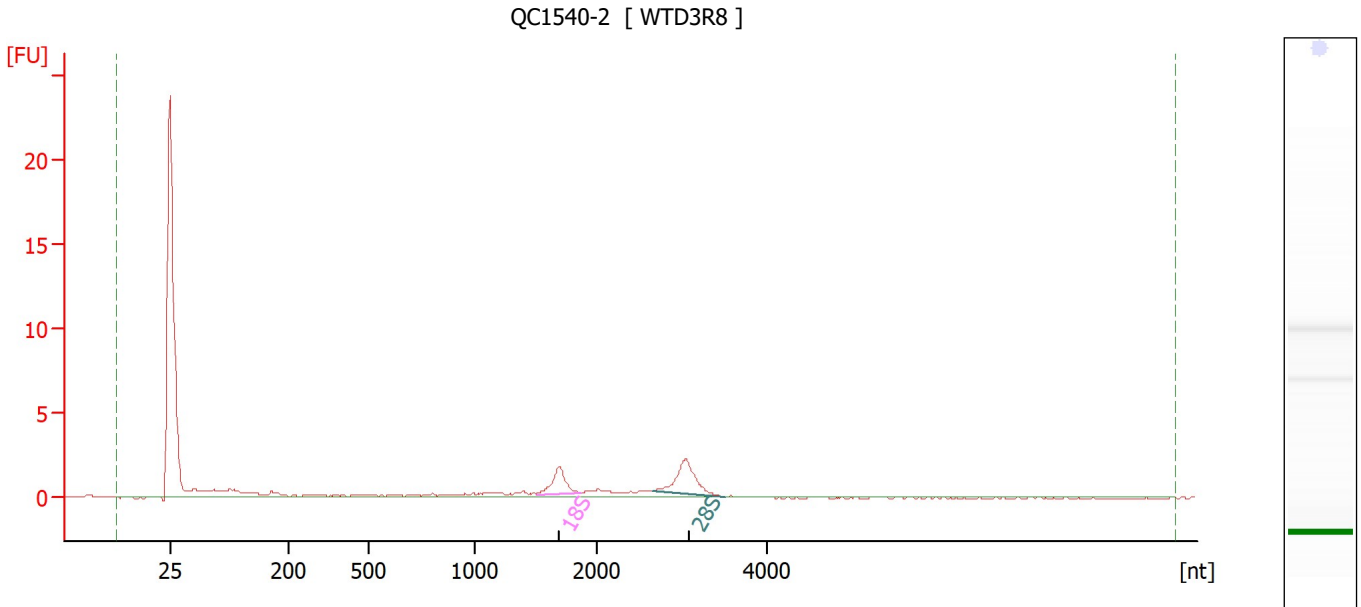
**Fragment table for sample 1 : QC1540-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,379	1,802	6.7	10.3
28S	2,791	3,271	3.8	5.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : QC1540-2**

RNA Area: 23.7                      RNA Integrity Number (RIN): 8 (B.02.10)  
RNA Concentration: 90 pg/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6              Result Flagging Label: RIN:8

**Fragment table for sample 2 : QC1540-2**

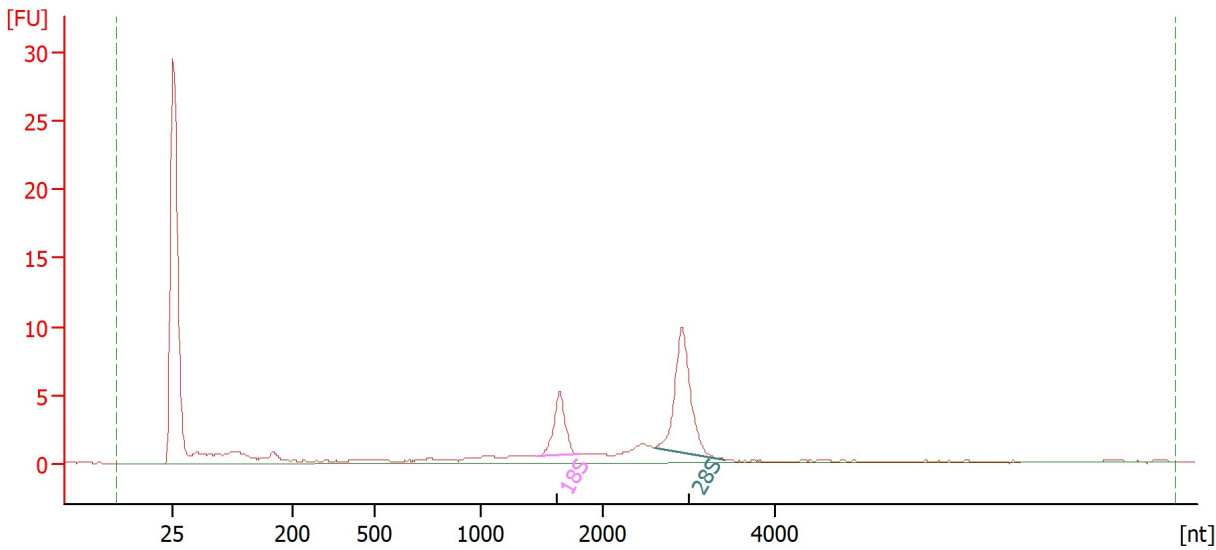
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,498	1,874	2.9	12.2
28S	2,663	3,507	4.5	19.2

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**Electropherogram Summary Continued ...**

QC1540-3 [ WTD7R8 ]



**Overall Results for sample 3 : QC1540-3**

RNA Area: 63.0 RNA Integrity Number (RIN): 8.6 (B.02.10)  
RNA Concentration: 240 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN: 8.60

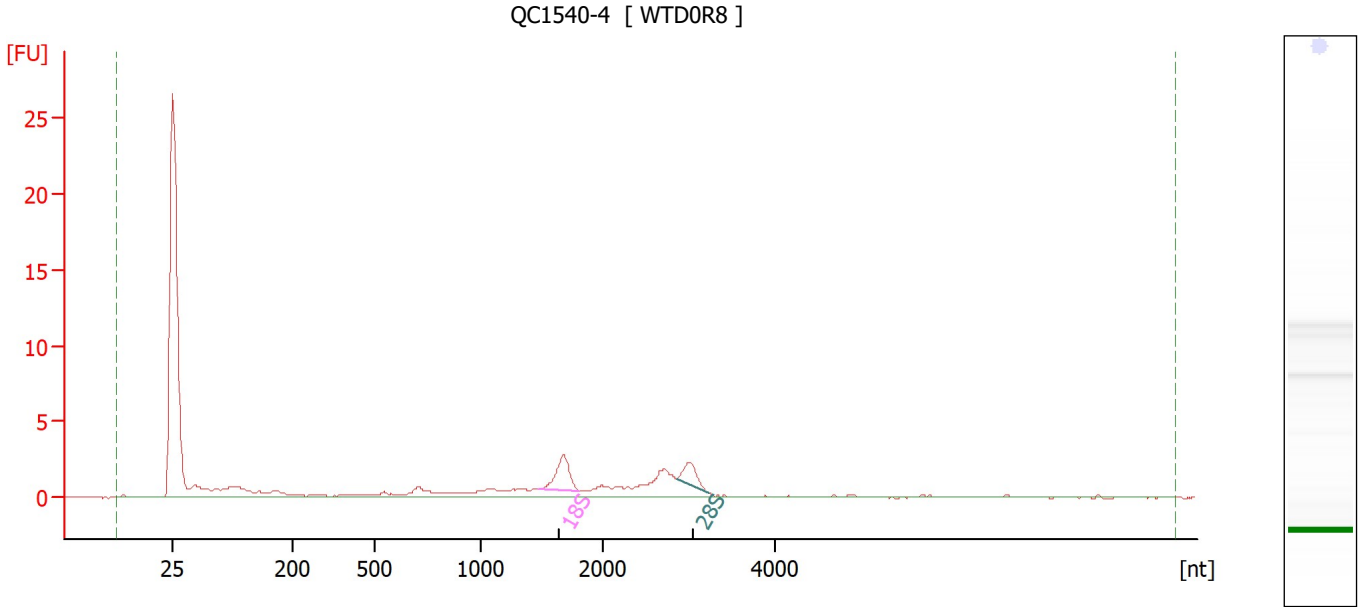
**Fragment table for sample 3 : QC1540-3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,460	1,808	7.2	11.4
28S	2,600	3,425	17.2	27.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : QC1540-4**

RNA Area: 43.5                      RNA Integrity Number (RIN): 7.3 (B.02.10)  
RNA Concentration: 166 µg/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.5                      Result Flagging Label: RIN: 7.30

**Fragment table for sample 4 : QC1540-4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,469	1,808	4.2	9.7
28S	2,862	3,237	2.2	5.1



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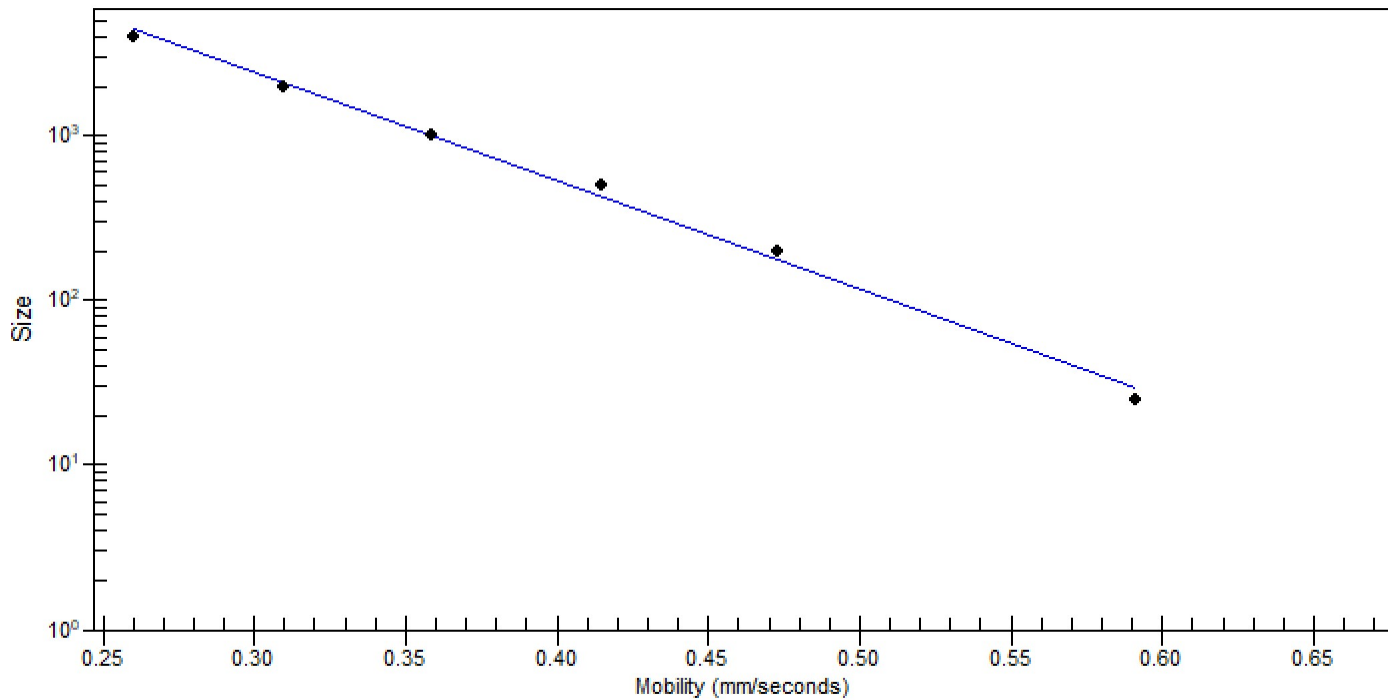
**Gel Image**

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**Curves**

**Standard Curve**



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**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		7/19/2023 3:38:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-07-19\Bioanalyzer1_Eukaryote Total RNA Pico_DE34903152_2023-07-19_001.xad)		Instrument	Run		7/19/2023 3:15:54 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/19/2023 3:15:54 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/19/2023 3:15:54 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/19/2023 3:15:54 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/19/2023 3:15:54 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/19/2023 3:15:54 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/19/2023 3:15:54 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB