

Generated by Viavi 5800-100G



# TrueSpeed Test

Pass

Mode	Turn-up
Throughput Symmetry	Symmetric
Steps to Run	Path MTU, RTT, Walk the Window, TCP Throughput
Customer Name	SystemPB.ru, DWDM.ru, VIAVISolutions.com
Technician ID	--
Test Location	Moscow
Work Order	--
Comments/Notes	--
Instrument	MTS5800-100G
Serial Number	WMSE0135180030
SW Version	27.2.1
Remote SW Version	27.2

**TrueSpeed Test: Upstream TCP Throughput Actual vs. Ideal**

**Upstream test results may indicate:**  
No further recommendation.



Actual L4 (Mbps)

**9492.8**

Ideal L4 (Mbps)

**9492.8**

**Transfer Metrics**

TCP Efficiency (%)

**100.00**

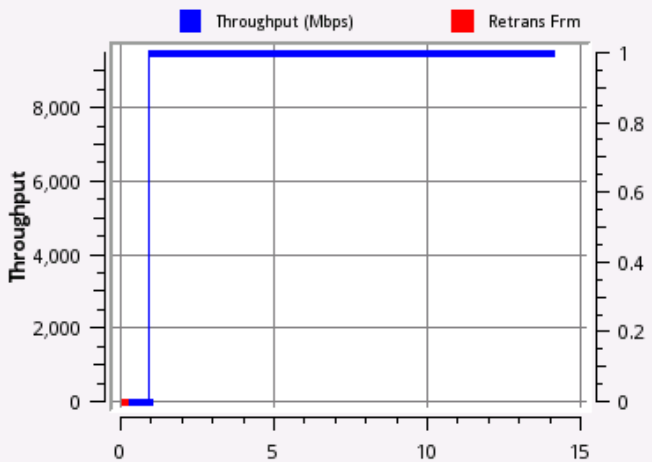
Buffer Delay (%)

**1.22**

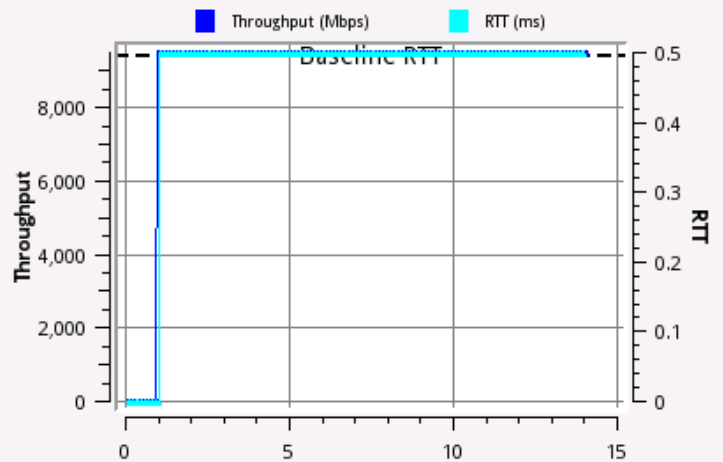


**604440** byte TCP window using **9** connection(s).

**TrueSpeed Test: Upstream TCP Throughput Graphs**



TCP Efficiency (%): **100.00**



Buffer Delay (%): **1.22**

Use these graphs to correlate possible TCP performance issues due to retransmissions and/or congestive network effects (RTT exceeding baseline).

**TrueSpeed Test: Downstream TCP Throughput Actual vs. Ideal**

**Downstream test results may indicate:**  
No further recommendation.



Actual L4 (Mbps)

**9492.8**

Ideal L4 (Mbps)

**9492.8**

**Transfer Metrics**

TCP Efficiency (%)

**100.00**

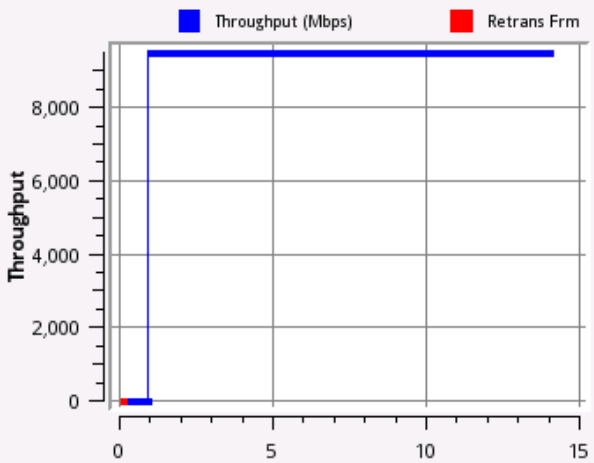
Buffer Delay (%)

**1.22**

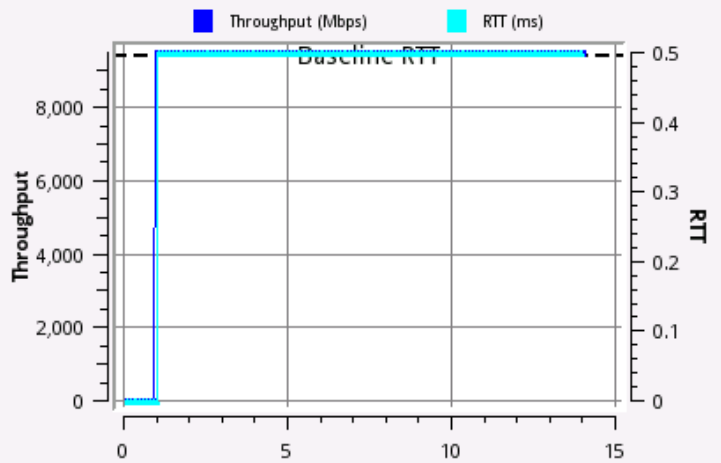


**604440** byte TCP window using **9** connection(s).

**TrueSpeed Test: Downstream TCP Throughput Graphs**



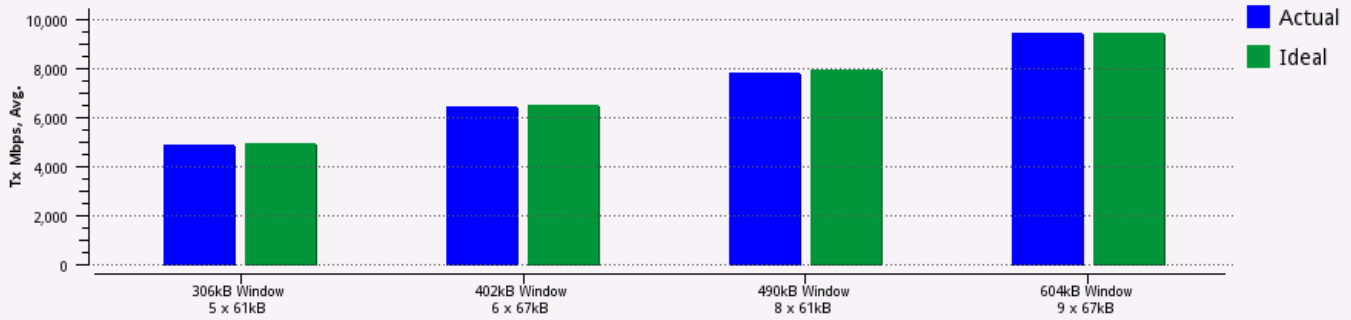
TCP Efficiency (%): **100.00**



Buffer Delay (%): **1.22**

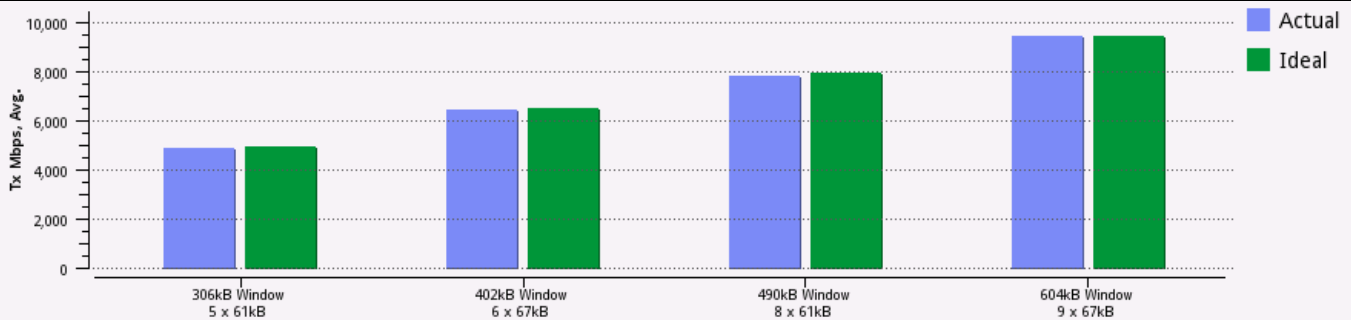
Use these graphs to correlate possible TCP performance issues due to retransmissions and/or congestive network effects (RTT exceeding baseline).

**TrueSpeed Test: Upstream Walk the Window**



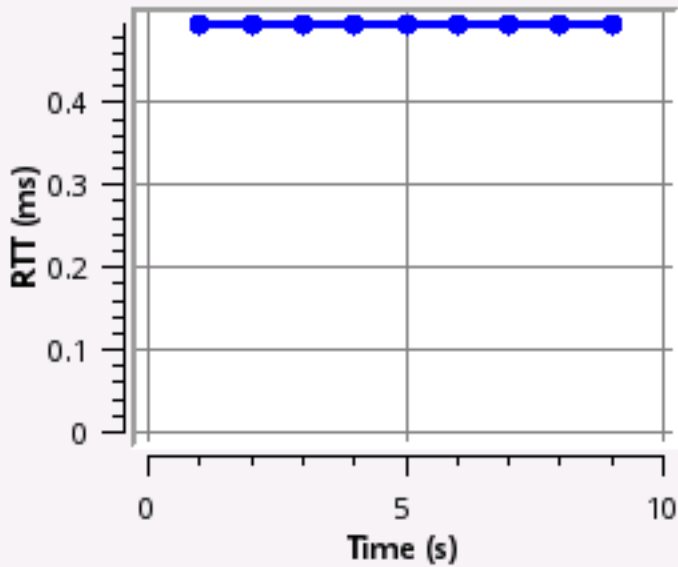
The results of the TCP Walk the Window step shows the actual versus ideal throughput for each window size/connection tested. Actual less than ideal may be caused by loss or congestion. If actual is greater than ideal, then the RTT used as a baseline is too high. The TCP Throughput step provides a deeper analysis of the TCP transfers.

**TrueSpeed Test: Downstream Walk the Window**



The results of the TCP Walk the Window step shows the actual versus ideal throughput for each window size/connection tested. Actual less than ideal may be caused by loss or congestion. If actual is greater than ideal, then the RTT used as a baseline is too high. The TCP Throughput step provides a deeper analysis of the TCP transfers.

**TrueSpeed Test: RTT**



**RTT Summary Results**

Avg. RTT (ms)  
**0.5**

Min. RTT (ms)  
**0.5**

Max. RTT (ms)  
**0.5**



The Round Trip Time (RTT) was measured to be **0.5** msec. The Minimum RTT is used as this most closely represents the inherent latency of the network. Subsequent steps use it as the basis for predicted TCP performance.

**TrueSpeed Test: Path MTU**

**The Path MTU was determined to be 1500 bytes. This equates to an MSS of 1460 bytes.**



This step determined that the Maximum Transmission Unit (MTU) is **1500** bytes for this link (end-end). This value, minus layer 3/4 overhead, will be used as the size of the TCP Maximum Segment Size (MSS) for subsequent steps. In this case, the MSS is **1460** bytes.

**TrueSpeed Test: Connection Settings**

Source MAC

Factory Default

Default Source MAC	00-80-16-93-82-36
Local IP Type	Static - Single
Local IP Address	192.168.1.5
Local Default Gateway	192.168.1.10
Local Subnet Mask	255.255.255.0
Local Encapsulation	None
Remote IP Address	192.168.1.11
Local Port	UP (10000 / FD)
Auto Negotiation	N/A
Test Protection	NO

<b>TrueSpeed Test: TrueSpeed Controls</b>	
Total Test Time (s)	310
Local TOS	000000
Downstream CIR (Mbps)	10000.0
Upstream CIR (Mbps)	10000.0
Remote TOS	000000

<b>TrueSpeed Test: TrueSpeed Controls (Advanced)</b>	
Connect to Port	5001
TCP Pass %	95.0
MTU Upper Limit (bytes)	1500
Use Multiple Connections	Yes
Enable Saturation Window	Not Selected