■Product System	□Other (x)	
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Product Comparative test report of 524WiFi 600VX X2 ProPlus vs other module

■Product System Subject:

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1. INTRODUCTION

This document shows the 524WiFi 600VX ProPlus Temperature and the throughput, and compares the differences between it and WLE600VX

2. Test Equipment

- 1, PC X1
- 2, 70dbm attenuator X2
- 3, 524WiFi 600VX X2 ProPlus
- 4, WLE600VX X2
- 5, RB922UAGS-5HacD X2
- 6, Electronic thermometer X1

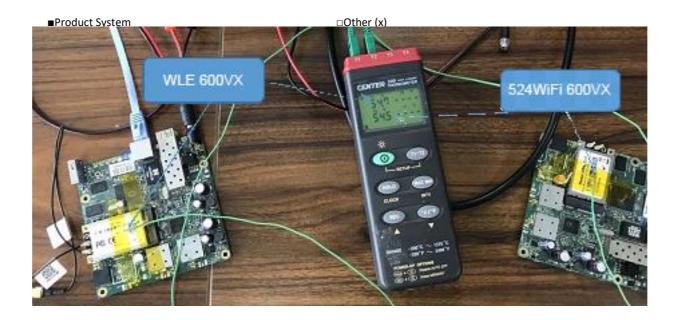
3. Temperature Comparative Test

Test SETUP

1, Add the two DUTS to RB922, like the picture



2, connect two cards with the two 70dbm attenuators, and add the Ethernet cable connect the PC to RB922, then add the Thermocouples on the center of DUT, then power on the RB922



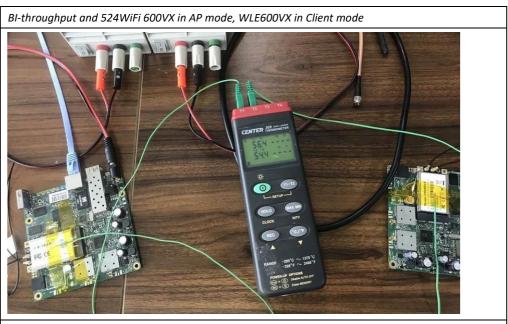
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Test Result

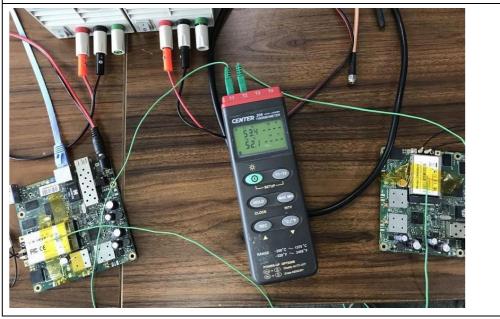
3, Record the temperatures in running throughput after running half an hour.

DUT	Temperature	Mode	TX Power
524WiFi	54.4 °	Bi-throughput work in AP WDS mode	Load by card default setting
600VX	52.1 °	Bi-throughput work in Client WDS mode	Load by card default setting
WLE600VX	53.4°	Bi-throughput work in AP WDS mode	Load by card default setting
	56.4 °	Bi-throughput work in Client WDS mode	Load by card default setting

The picture show the result as flow, the upper record is for WLE600VX, and the lower record is for 524WiFi 600VX



BI-throughput and 524WiFi 600VX in client mode, WLE600VX in AP mode



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4. Throughput Comparative Test

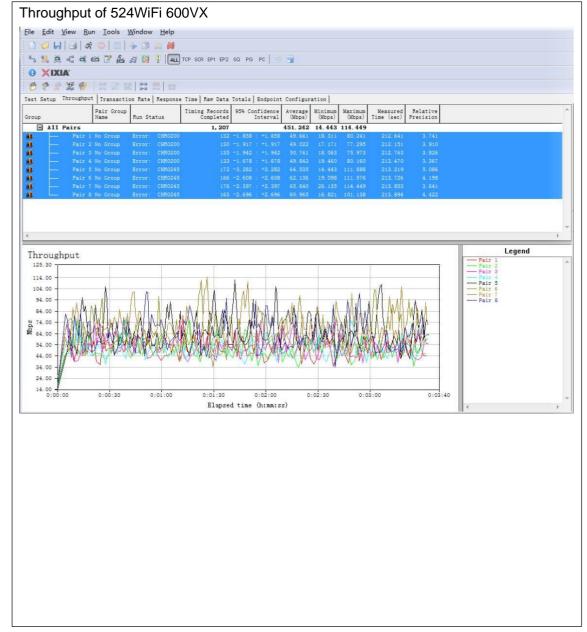
Test SETUP

The setup is the same with the setup for temperature comparative test. And test with the same frequency

Test Result

Item	524WiFi 600VX (AP and Client)	WLE600VX (AP and Client)
Throughput	451Mbps	449Mbps
Link Rate	866.7Mbps	866.7Mbps
TX/RX signal strength	/-43dbm	/-43dbm

The picture shows the result as follows,



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	r Group Tim	ning Records 95% Confidence Average Minimum Maximum Measured Relat Completed Interval (Mbps) (Mbps) Time (sec) Precis	
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Pair 3 No Pair 4 No			559 314
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Throughput 114.30	T T		Pair 1 Pair 2
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Signal message of WLI	E600VX	
Interface (wlan39)		
in the second	A R R A R R R R R R R R R R R R R R R R	
	rent Tx Power Advanced Status Status Traffic	ОК
Last Link Down Time:		Cancel
Last Link Up Time:	May/08/2020 13:10:23	
Link Downs:	0	Apply
Channal :	5300/20-eeCe/ac/DP	Disable
Wireless Protocol:		Comment
	866.6Mbps-80MHz/2S/SGI	Simple Mode
Rx Rate:	866.6Mbps-80MHz/2S/SGI	Torch
SSID:	MikroTik	WPS Accept
BSSID:	04:F0:21:86:CF:3C	WPS Client
Radio Name:	04F02186CF3C	Setup Repeater
Tx/Rx Signal Strength:	-44/-43 dBm	Scan
Tx/Rx Signal Strength ChO:	-50/-49 dBm	
Tx/Rx Signal Strength Ch1:	-46/-45 dBm	Freq. Usage
Tx/Rx Signal Strength Ch2:		Align
Noise Floor:	-105 dBm	Sniff
Signal To Noise:	62 dB	Snooper
Tx/Rx CCQ:		Reset Configuratio
Overall Tx CCQ:		
Distance:		
RouterOS Version:	6.40.3	
Last IP:	192. 168. 1. 100	
	WDS Link	
	Compression	
	✓ WMM Enabled	

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5. Introduction of 524WiFi 600VX / 524WiFi 900VX

Thanks for your patience in reading this report. In the end, we will introduce the card 524WiFi 600VX / 524WiFi 900VX, at first we don't like to do it, because I think the customers know where they are from.

It is based on XB140. XB140 is a reference design from the QCA for QCA9880. XB140 is a dual band 802.11ac design.

What are the differences between XB140 and 524WiFi 600VX/524WiFi

900VX? 524WiFi 600VX/524WiFi 900VX changes the FEM, power, some

RF circuit and layout. We change the FEM, that is because we always

work with the Skyworks; we change the power for lower cost.

we change the RF and the layout for higher performance and lower working temperature, and we do many tests for it. And except the officially released version, we also do some versions for it. There is one version with single placement and the other uses SKY85309-11.

PS: The picture as follows is the single placement version. There is no component on the bottom side.

