

VERIFICATION TEST REPORT

FCC ID : PY321100529
Equipment : Netgear 5G MHS Travel Router
Brand Name : Netgear
Model Name : MR6500
Applicant : Netgear Inc
350 E. Plumeria Drive, San Jose, CA 95134,
United States
Manufacturer : Netgear Inc
350 E. Plumeria Drive, San Jose, CA 95134,
United States

1. Feature of Equipment Under Test

Product Feature	
Equipment	Netgear 5G MHS Travel Router
Model Name	MR6500
FCC ID	PY321100529
S/N	6RB11AWJ00063

2. Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. DF02-HY
Test Engineer	Avis Chuang
Test date	Jan. 21, 2022
Temperature	24-26°C
Relative Humidity	50-55%

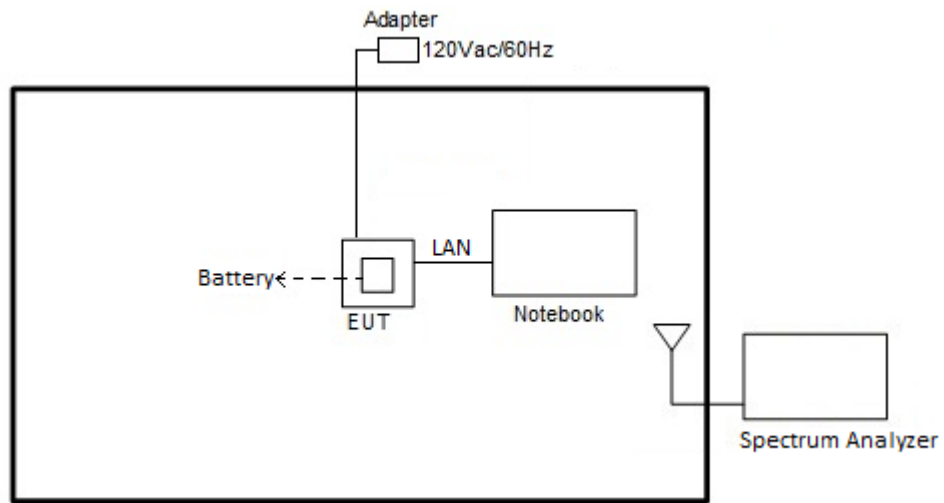
3. Verification

Test purpose: to verify EUT supports WiFi AP mode in 6-7 GHz, only when it's powered by AC.

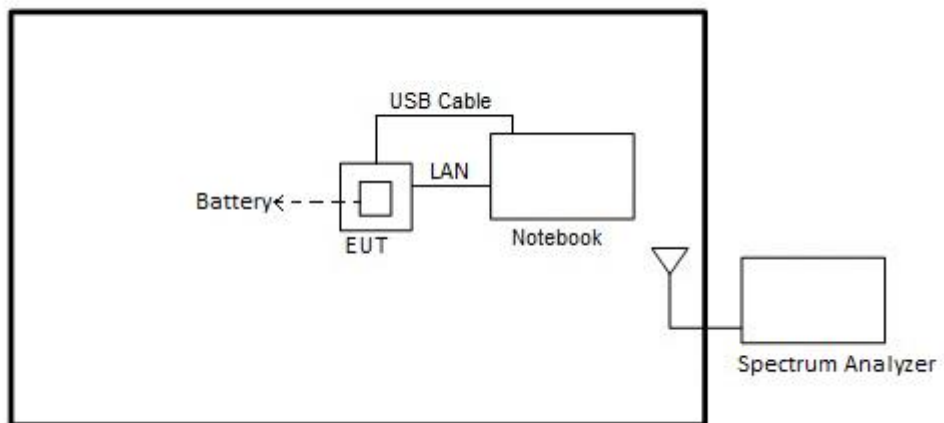
- **Case 1 (Device powered by AC adapter)**
 1. Device powers up by AC adapter with battery inserted
 - Confirm 6E option is available in WebUI
 - Select 6E option to enable transmission, and confirm 6E WiFi signal is available
 2. Unplug AC adapter from the device, with battery remained inserted to power the device
 - Confirm 6E option is not available in WebUI
 - Confirm 6E WiFi signal is no longer available
 3. Plug the AC adapter back to device and remove inserted battery
 - Confirm 6E option is available in WebUI
 - Select 6E option to enable transmission, and confirm 6E WiFi signal is available
- **Case 2 (Device powered by USB)**
 - Power up device with device connected to a USB power port e.g. laptop
 - Confirm 6E option is not available in WebUI
 - Confirm 6E WiFi signal is not available
- **Case 3 (Device powered by battery)**
 - Power up device with inserted battery
 - Confirm 6E option is not available in WebUI
 - Confirm 6E WiFi signal is not available

4. Connection Diagram of Test System

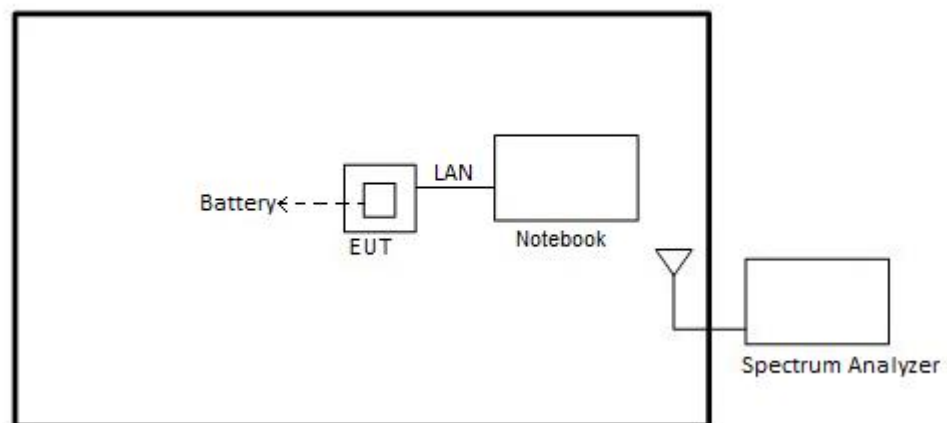
- Case 1



- Case 2



- Case 3



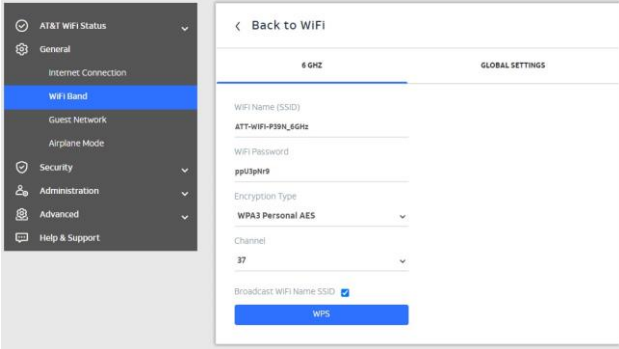
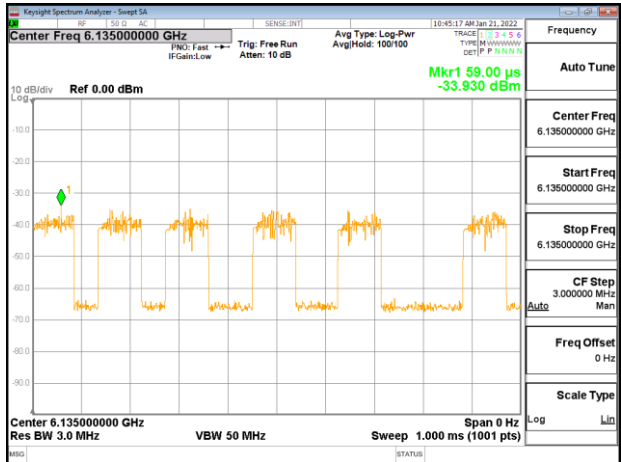
5. Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	HW / FW Version	Power Cord
1.	Notebook	acer	N16Q2	Contains FCC ID: PD97265NG	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

6. List of Measuring Equipment

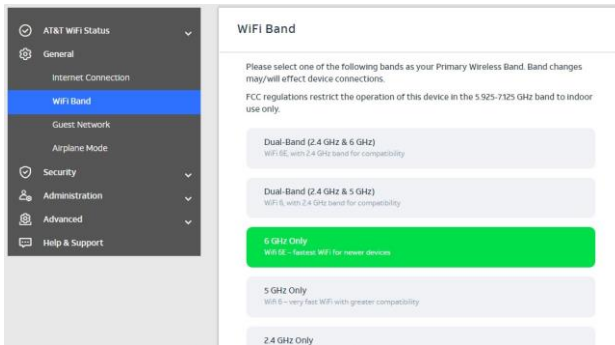
Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 01, 2021	Jan. 21, 2022	Feb. 28, 2022	DFS (DF02-HY)
Spectrum Analyzer	Keysight	N9010A	MY57120184	10Hz~7GHz	Nov. 17, 2021	Jan. 21, 2022	Nov. 16, 2022	DFS (DF02-HY)

7. Test Plots

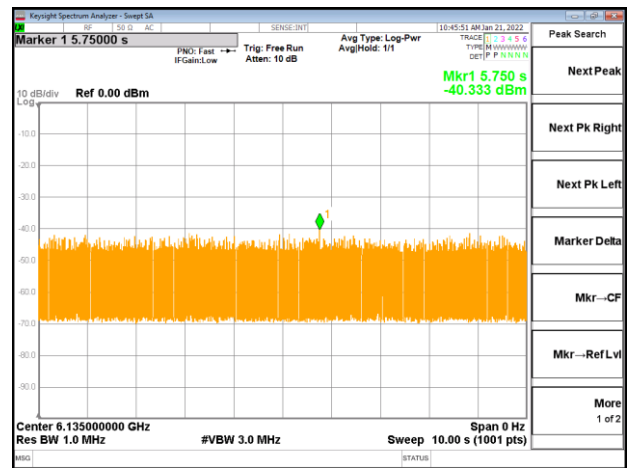
Test setup	
<ol style="list-style-type: none"> EUT is connected to AC power WiFi 6E AP mode channel fix to ch37 (6135MHz) 	<p>WiFi 6E beacon signal check</p>
	

Case 1-1 (Device powers up by AC adapter with battery inserted)

Confirmed: WiFi 6E option is available in WebUI

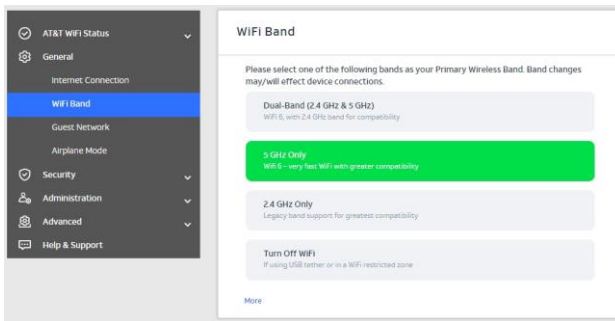


Confirmed: WiFi 6E signal is available

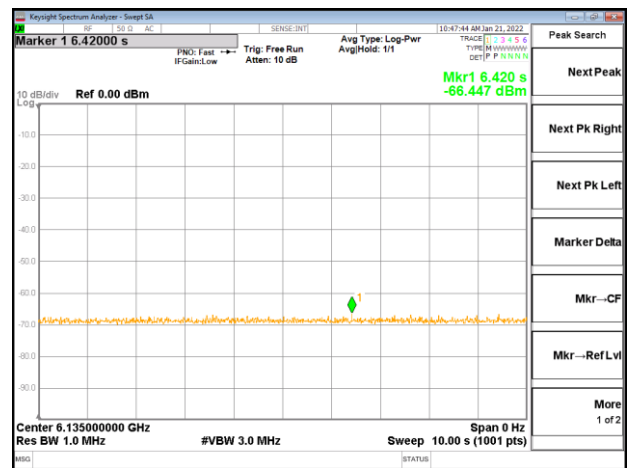


Case 1-2 (Unplug AC adapter from the device, with battery remained inserted to power the device)

Confirmed: 6E option is not available in WebUI

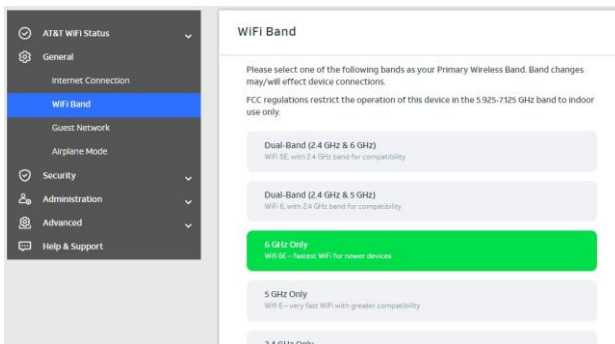


Confirm: there is no WiFi 6E signal detected

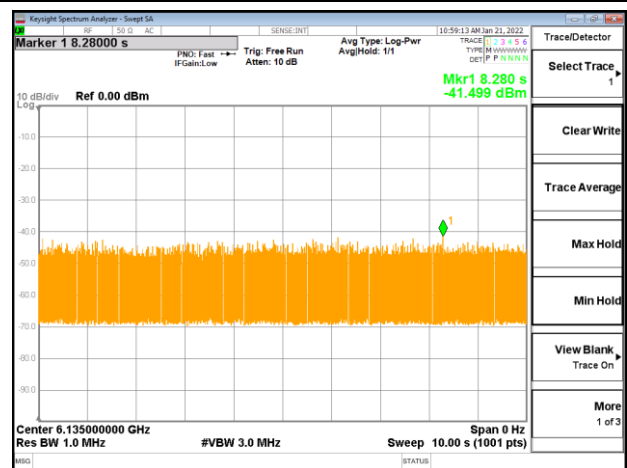


Case 1-3 (Plug the AC adapter back to device and remove inserted battery)

Confirmed: WiFi 6E option is available in WebUI

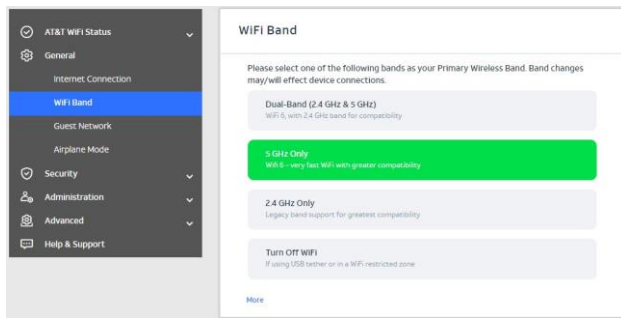


Confirmed: WiFi 6E signal is available

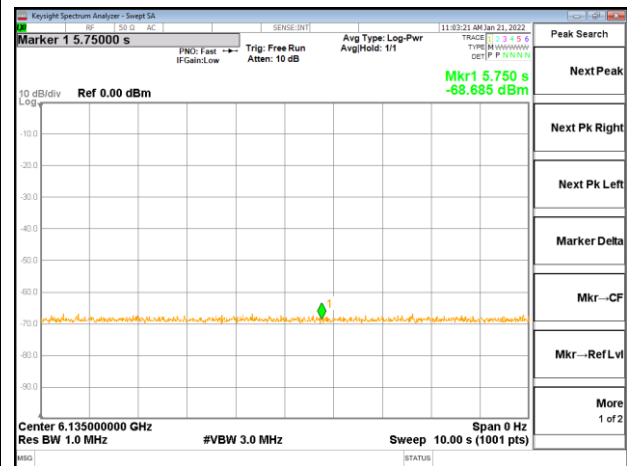


Case 2 (Device powered by USB)

Confirmed: 6E option is not available in WebUI

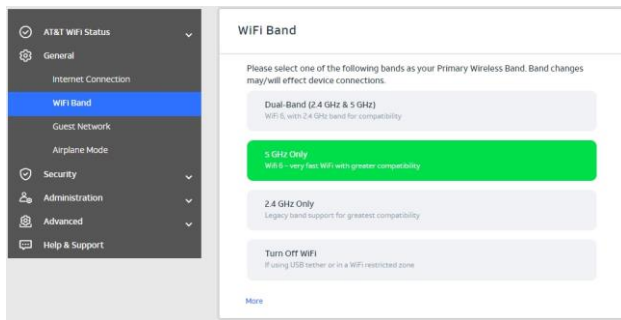


Confirm: there is no WiFi 6E signal detected



Case 3 (Device powered by battery)

Confirmed: 6E option is not available in WebUI



Confirm: there is no WiFi 6E signal detected

