



# WiFi 6E Verification TEST REPORT No.I22Z60940-IOT06

for

**TCL Communication Ltd.**

**Mobile Hot Spot**

**MW513U**

**With**

**FCC ID: 2ACCJB183**

**Hardware Version: 06**

**Software Version: MW513U\_ZZ\_02.00\_06**

**Issued Date: 2022-09-05**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

**Test Laboratory:**

**CTTL-Telecommunication Technology Labs, CAICT**

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: [ctl\\_terminals@caict.ac.cn](mailto:ctl_terminals@caict.ac.cn), website: [www.caict.ac.cn](http://www.caict.ac.cn)



## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>	<b>Description</b>
I22Z60940-IOT06	Rev.0	1 <sup>st</sup> edition	2022-07-27	Initial creation of test report.
I22Z60940-IOT06	Rev.1	2 <sup>nd</sup> edition	2022-09-05	Retest with new WiFi 6E firmware.

## **CONTENTS**

<b>CONTENTS .....</b>	<b>3</b>
<b>1. TEST LATORATORY.....</b>	<b>4</b>
1.1. INTRODUCTION & ACCREDITATION .....	4
1.2. TESTING LOCATION .....	4
1.3. TESTING ENVIRONMENT.....	4
1.4. PROJECT DATE .....	4
1.5. SIGNATURE .....	4
<b>2. CLIENT INFORMATION.....</b>	<b>5</b>
2.1. APPLICANT INFORMATION .....	5
2.2. MANUFACTURER INFORMATION .....	5
<b>3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT(AE) .....</b>	<b>6</b>
3.1. ABOUT EUT .....	6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST .....	6
3.3. GENERAL DESCRIPTION.....	6
<b>4. LABORATORY ENVIRONMENT.....</b>	<b>6</b>
<b>5. TEST EQUIPMENTS UTILIZED .....</b>	<b>6</b>
<b>ANNEX A: MEASUREMENT RESULTS.....</b>	<b>7</b>
A.1. DEVICE POWERED BY AC ADAPTER .....	7
A.1.1. DEVICE POWERED BY QC3.0 AC ADAPTER WITH BATTERY INSERTED.....	7
A.1.2. DEVICE POWERED BY QC3.0 AC ADAPTER WITH BATTERY REMOVED .....	8
A.1.3. UNPLUG QC3.0 AC ADAPTER FROM THE DEVICE, WITH BATTERY REMAINED.....	9
A.1.4. PLUG THE QC3.0 AC ADAPTER BACK TO DEVICE AND REMOVE INSERTED BATTERY .....	11
A.1.5. DEVICE POWERED BY AC ADAPTER NOT SUPPORT QC3.0.....	12
A.2. DEVICE POWERED BY USB .....	13
A.2.1. POWER UP DEVICE WITH DEVICE CONNECTED TO A USB POWER PORT(EG LAPTOP OR PC, POWER BANK OR VEHICLE CHARGER WITHOUT QC3.0) .....	13
A.3. DEVICE POWERED BY BATTERY.....	14
A.3.1 POWER UP DEVICE WITH INSERTED BATTERY A) CONFIRM 6E OPTION IS NOT AVAILABLE IN WEBUI .....	14

## 1. TEST LABORATORY

### 1.1. Introduction & Accreditation

**Telecommunication Technology Labs, CAICT** is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

### 1.2. Testing Location

Conducted testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
P. R. China100191

### 1.3. Testing Environment

Normal Temperature: 15-35°C

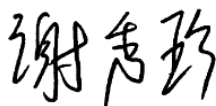
Relative Humidity: 20-75%

### 1.4. Project date

Testing Start Date: 2022-07-13

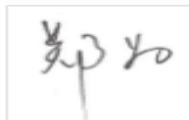
Testing End Date: 2022-09-05

### 1.5. Signature



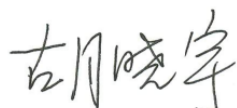
---

Xie Xiuzhen  
(Prepared this test report)



---

Zheng Wei  
(Reviewed this test report)



---

Hu Xiaoyu  
(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science  
Park, Shatin, NT, Hong Kong  
City: Hong Kong  
Postal Code: /  
Country: China  
Telephone: +86075536645759  
Fax: /

### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science  
Park, Shatin, NT, Hong Kong  
City: Hong Kong  
Postal Code: /  
Country: China  
Telephone: +86075536645759  
Fax: /

### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY**

#### **EQUIPMENT(AE)**

##### **3.1. About EUT**

Description	Mobile Hot Spot
Model name	MW513U
FCC ID	2ACCJB183
WLAN Frequency Band	ISM Band: -5925MHz~6425MHz -6425MHz~6525MHz -6525MHz~6875MHz -6875MHz~7125MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Extreme vol. Limits	3.8V

##### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>S/N</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	352950940208559	06	MW513U_ZZ_02.00_06

\*EUT ID: is used to identify the test sample in the lab internally.

##### **3.3. General Description**

The Equipment Under Test (EUT) is a model of Mobile Hot Spot with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test.

### **4. LABORATORY ENVIRONMENT**

Measurement is performed in shielding room.

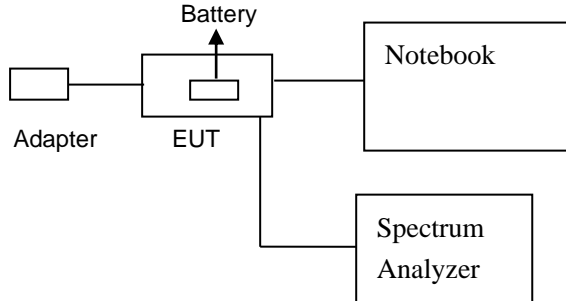
### **5. TEST EQUIPMENTS UTILIZED**

#### **Conducted test system**

<b>No.</b>	<b>Equipment</b>	<b>Model</b>	<b>Serial Number</b>	<b>Manufacturer</b>	<b>Calibration Period</b>	<b>Calibration Due Date</b>
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2023-05-15
3	Shielding Room	S81	/	ETS-Lindgren	/	/

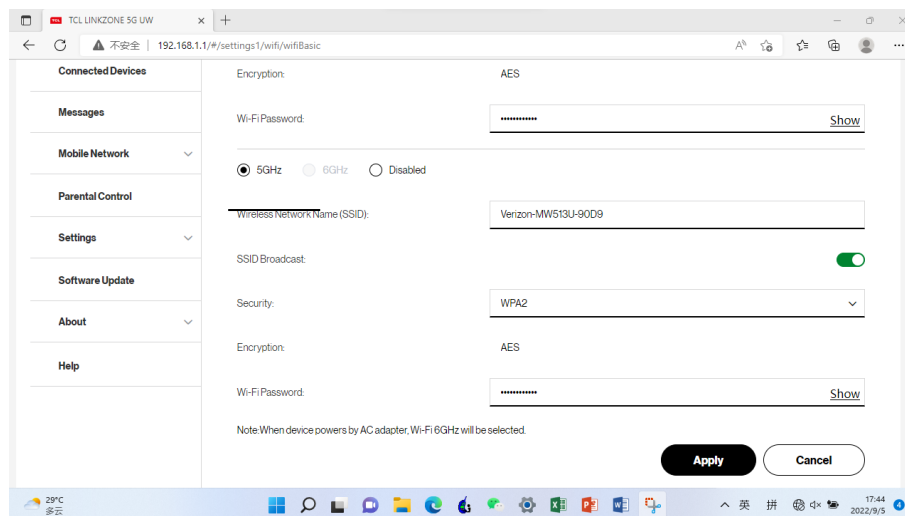
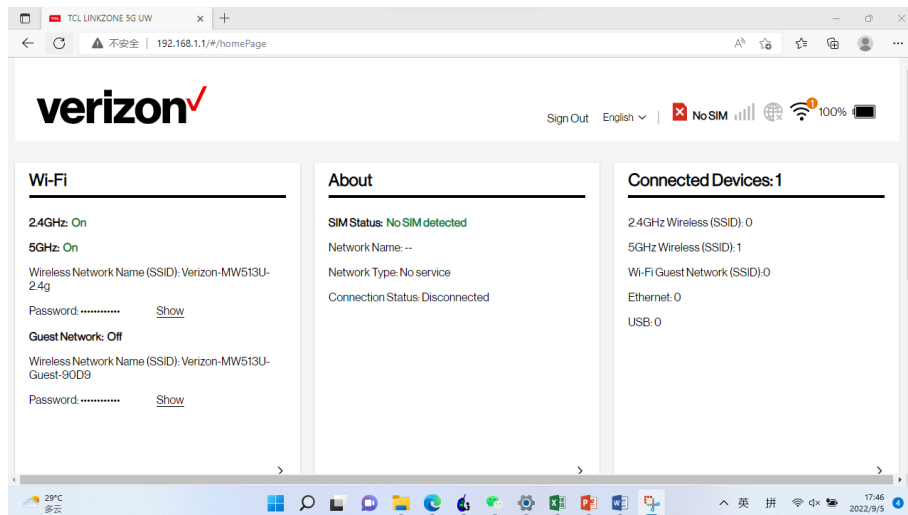
## ANNEX A: MEASUREMENT RESULTS

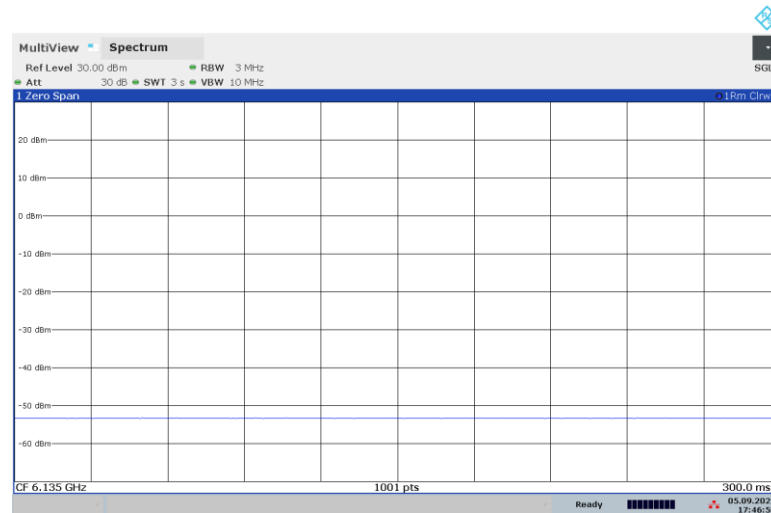
### A.1. Device powered by AC adapter



#### A.1.1. Device powered by QC3.0 AC adapter with battery inserted

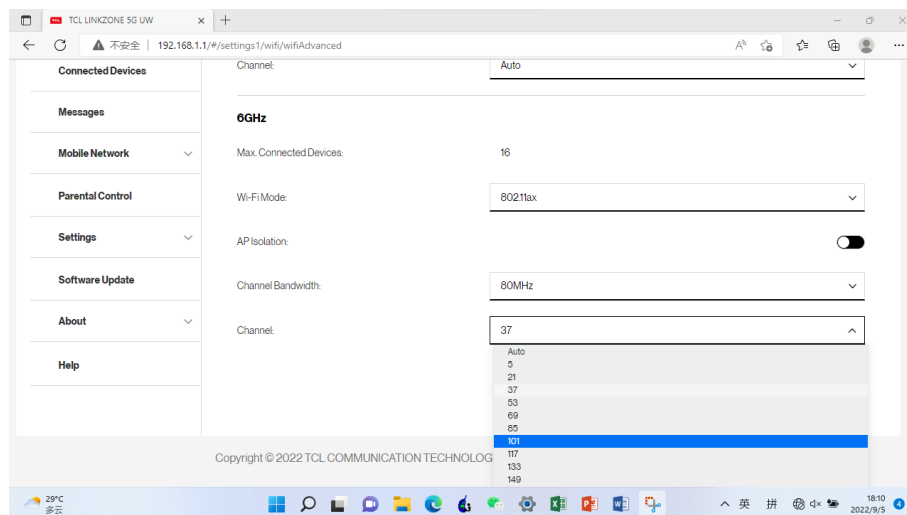
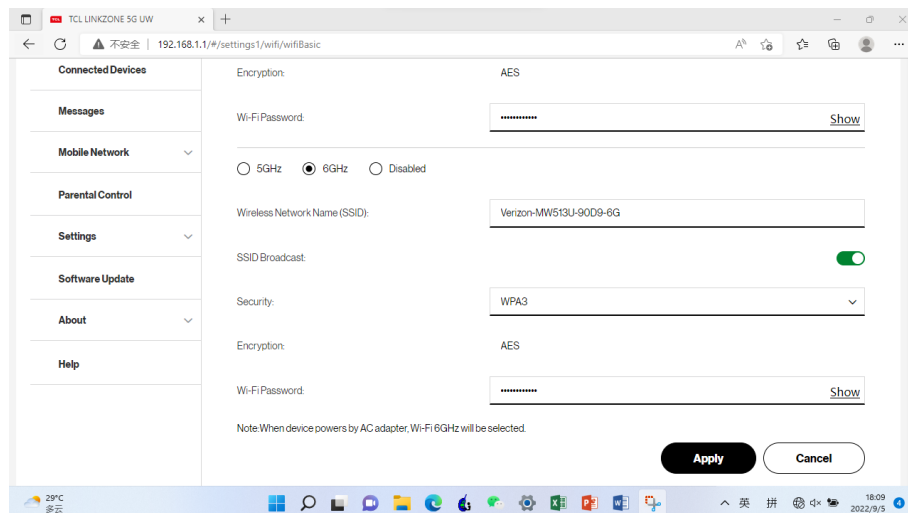
- Confirm 6E option is not available in WebUI
- Confirm 6E WiFi signal is no longer available



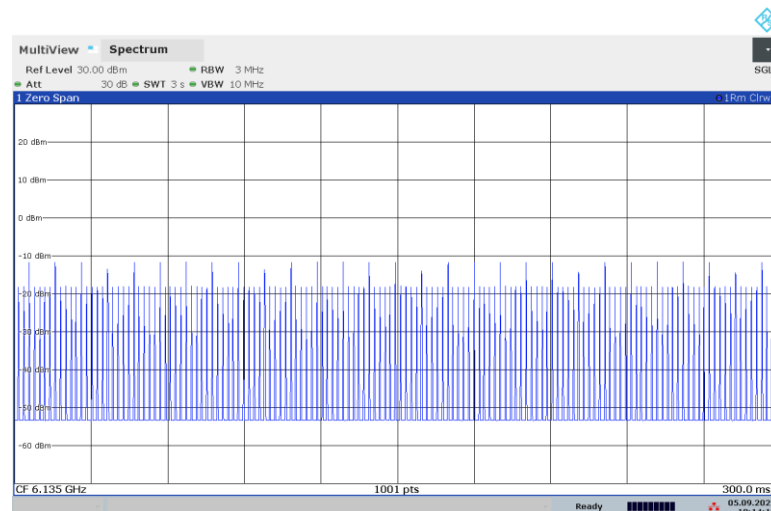
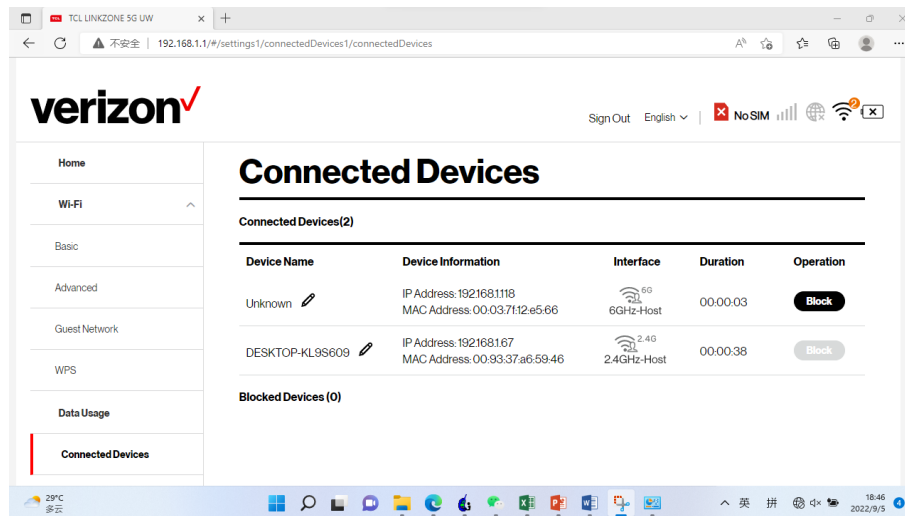


### A.1.2. Device powered by QC3.0 AC adapter with battery removed

- a) WiFi 6E option is available in WebUI
- b) Select WiFi 6E option to enable and WiFi 6E signal is available

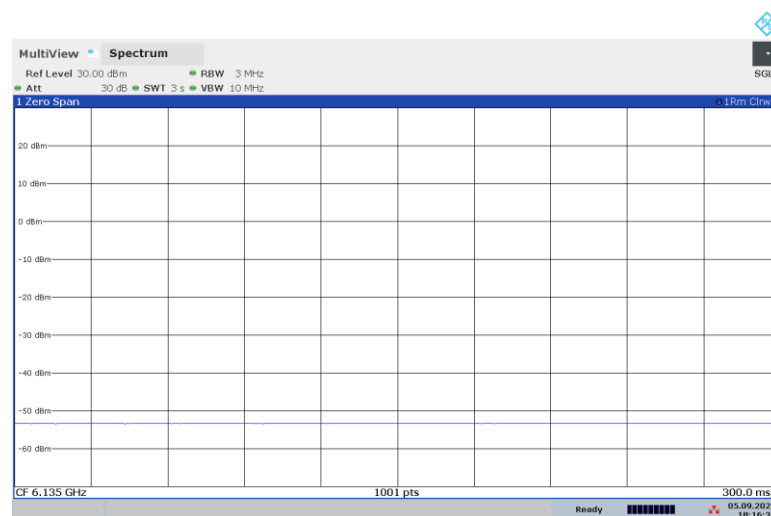
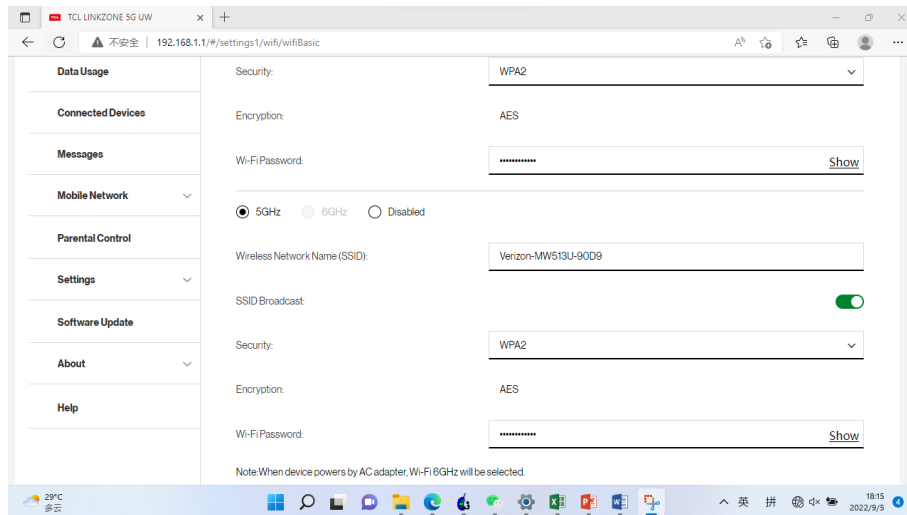
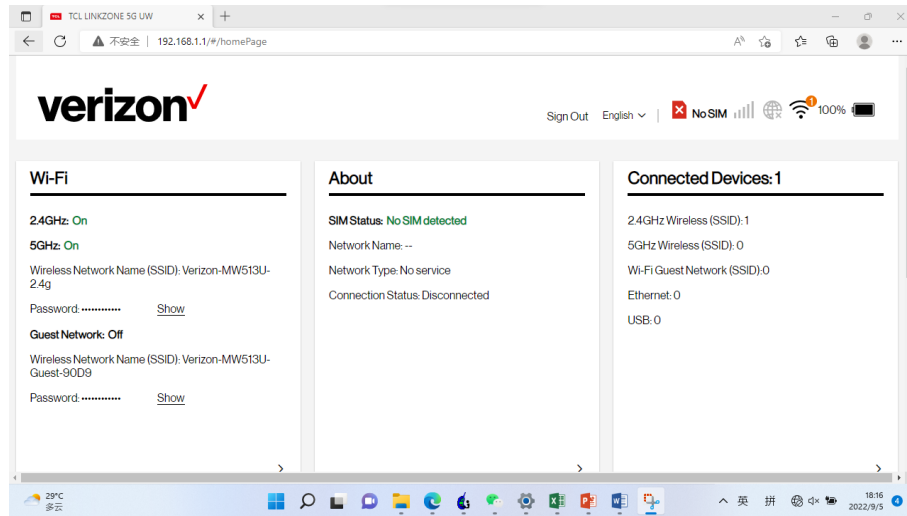






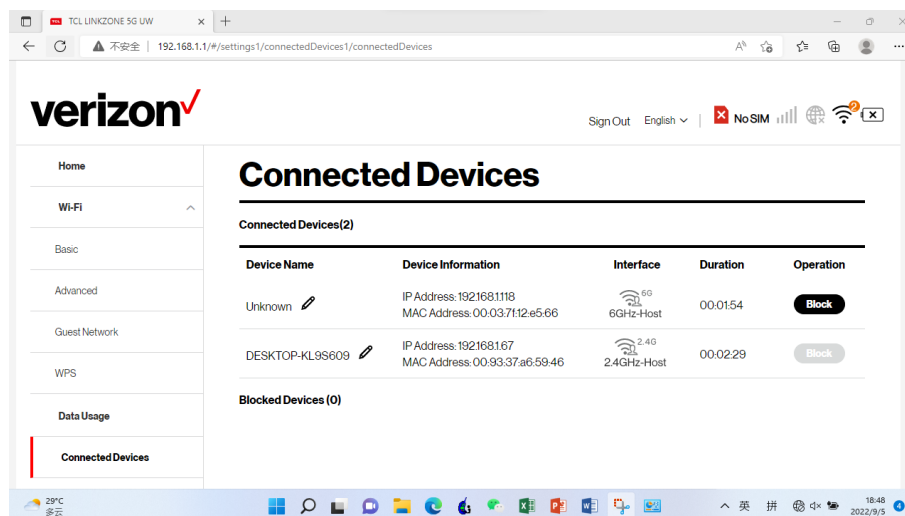
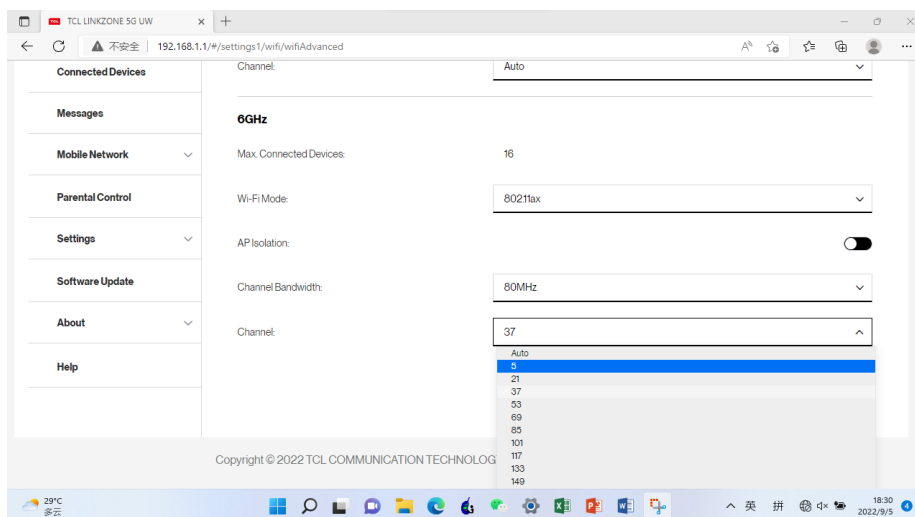
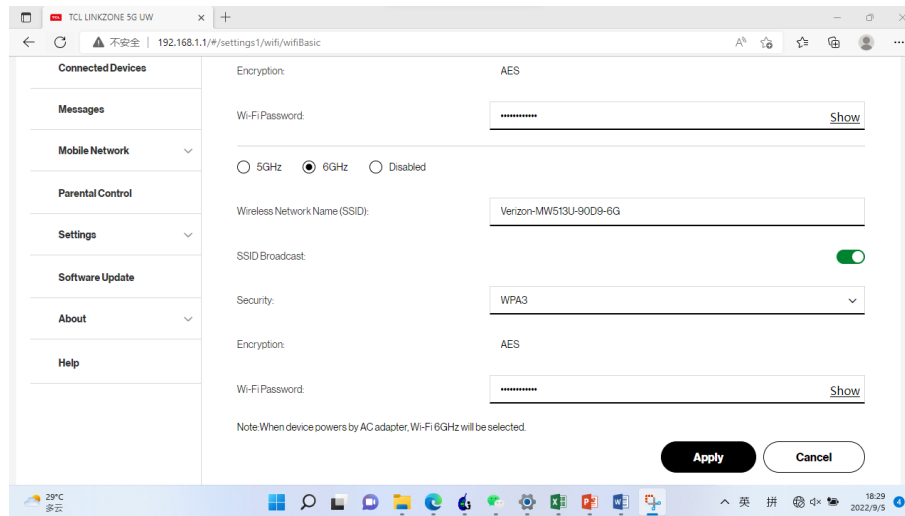
### A.1.3. Unplug QC3.0 AC adapter from the device, with battery remained

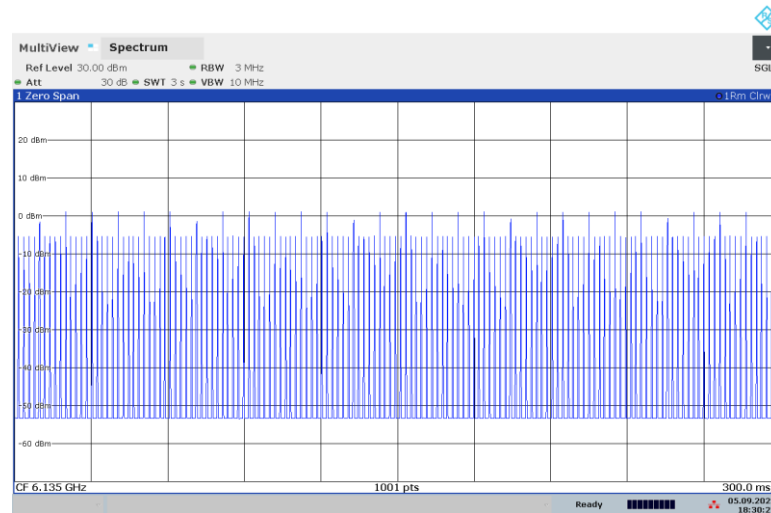
- Confirm WiFi 6E option is not available in WebUI
- Confirm WiFi 6E signal is no longer available



#### A.1.4. Plug the QC3.0 AC adapter back to device and remove inserted battery

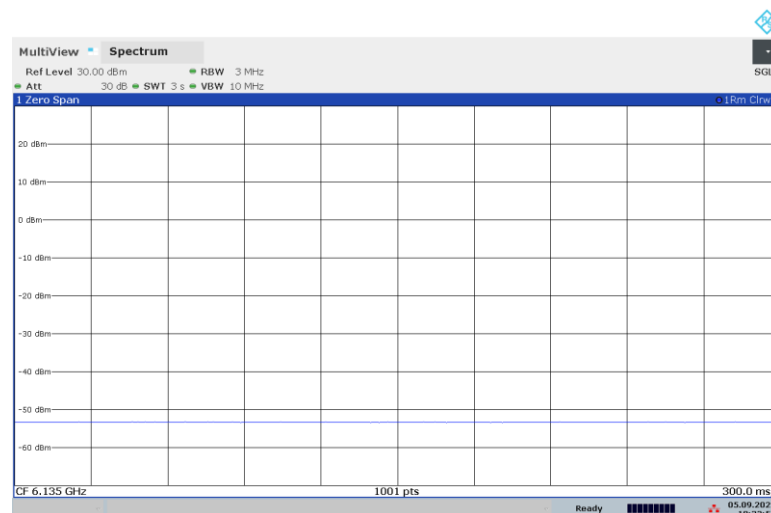
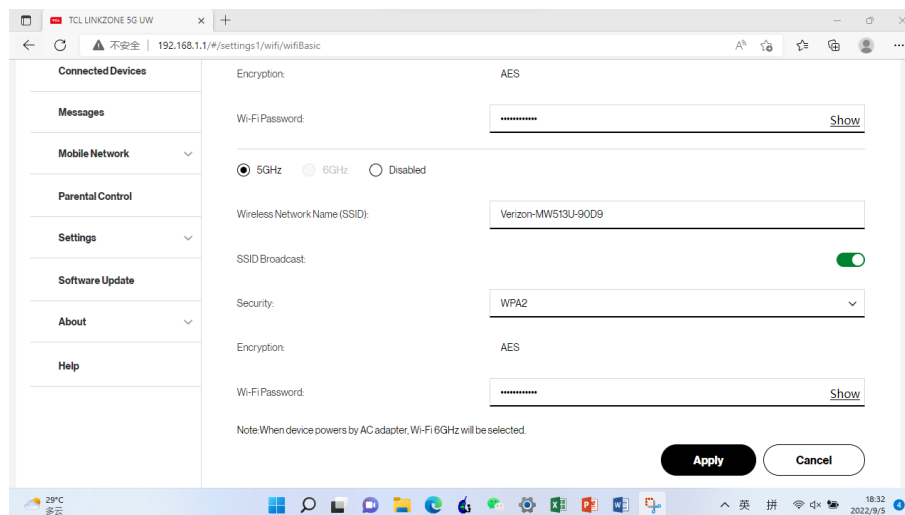
- a) Confirm WiFi 6E option is available in WebUI
- b) Select WiFi 6E option to enable and WiFi 6E signal is available



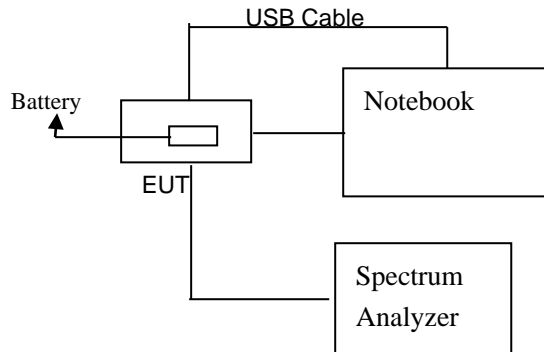


### A.1.5. Device powered by AC adapter not support QC3.0

- a) Confirm WiFi 6E option is not available in WebUI
- b) Confirm WiFi 6E signal is no longer available

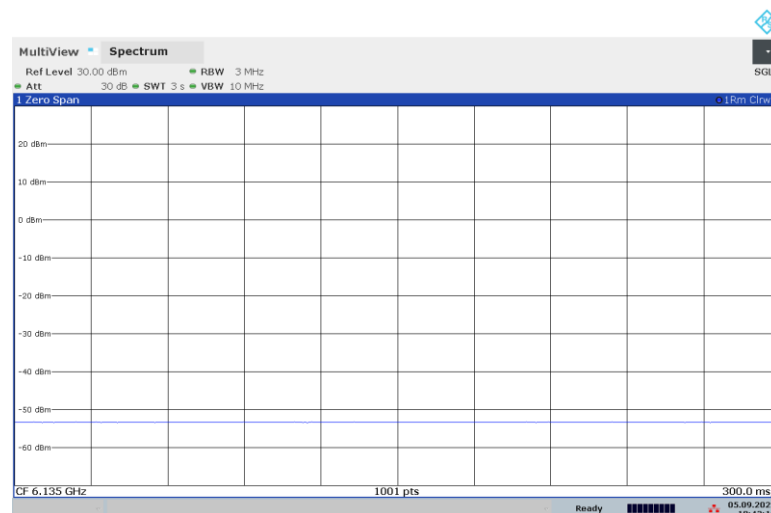
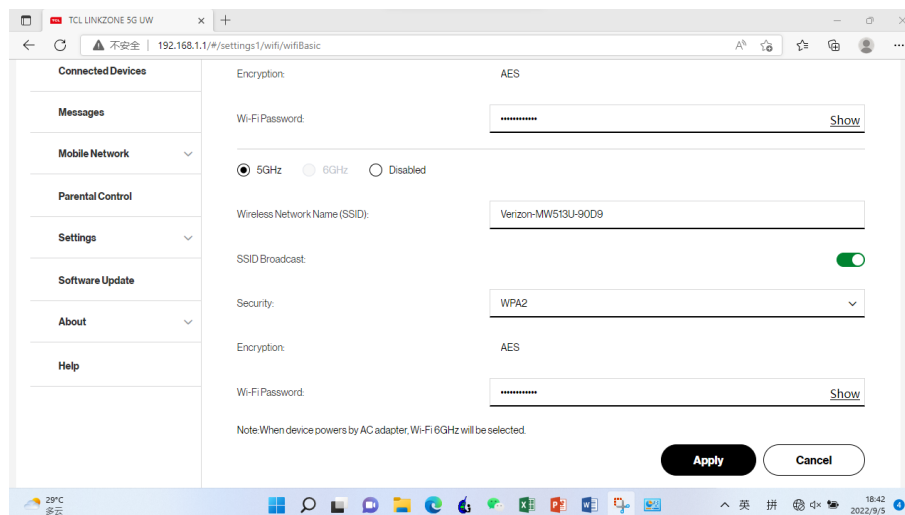


## A.2. Device powered by USB

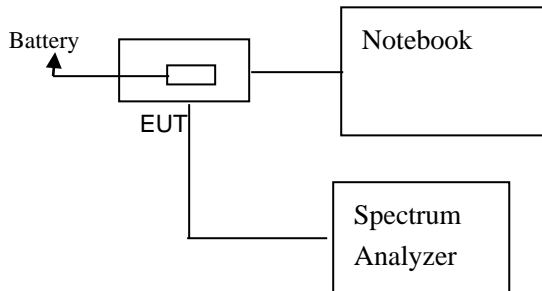


### A.2.1. Power up device with device connected to a USB power port(eg laptop or pc, power bank or Vehicle charger without QC3.0)

- Confirm WiFi 6E option is not available in WebUI
- Confirm WiFi 6E signal is no longer available

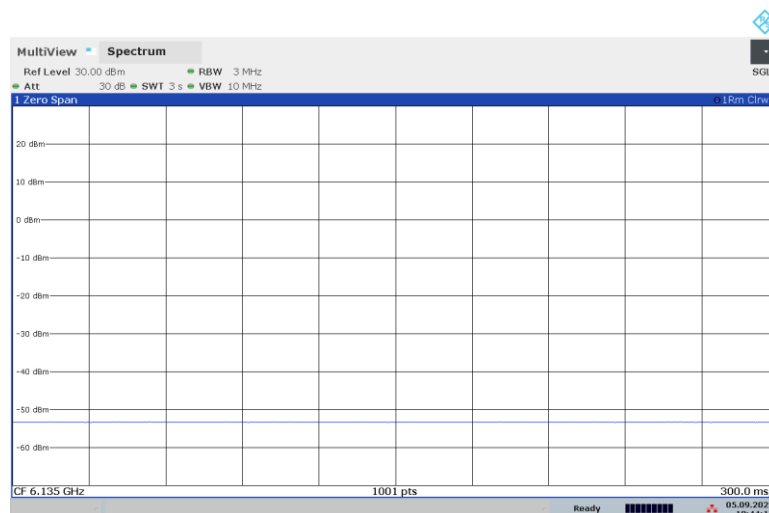
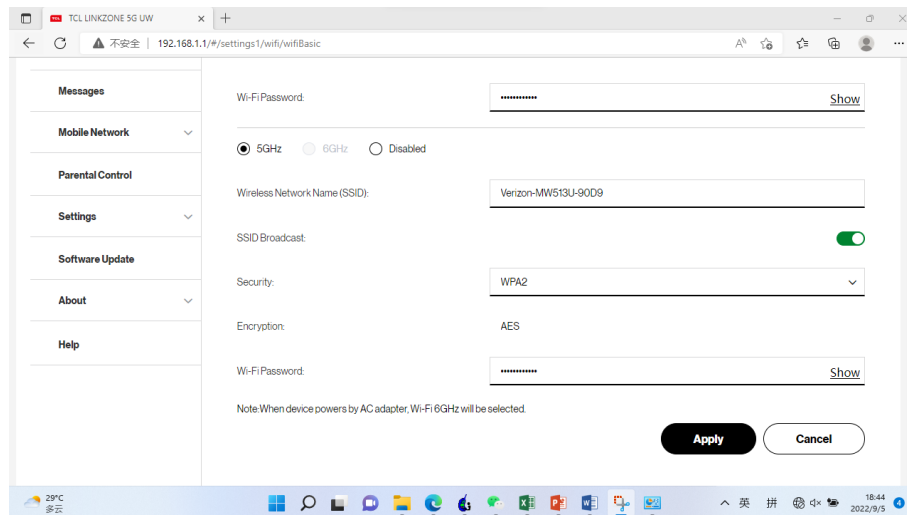


### A.3. Device powered by battery



#### A.3.1 Power up device with inserted battery

- a) Confirm 6E option is not available in WebUI
- b) Confirm 6E WiFi signal is not available



\*\*\* END OF REPORT BODY \*\*\*