



# FCC Test Report

**Test Report  
On Behalf of  
Hangzhou Tanlink Technology Co.,Ltd.**

**Model No.: F7N Pro, A1, F11, A2, F17 Plus, GuardiLux 10,  
GuardiLux 10 Pro, F9 Pro, F9 Elite, F7NP, F70**

**FCC ID: 2BBBN-F7NPRO**

**Prepared For:** Hangzhou Tanlink Technology Co.,Ltd.  
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**Prepared By:** Shenzhen HUAK Testing Technology Co., Ltd.  
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**Date of Test:** Jul. 14, 2025 ~ Jul. 25, 2025

**Date of Report:** Jul. 25, 2025

**Report Number:** HK2507143817-2E

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## \*\* Modified History \*\*

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jul. 25, 2025	Jason Zhou
		HUAK TESTING	
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## 1. Test Result Summary

### 1.1 Test Procedures and Results

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(e)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	N/A
Power Spectral Density	§15.407(a)	PASS
Band Edge	§15.407(b)/15.209/15.205	PASS
Radiated Emission	§15.407(b)/15.209/15.205	PASS
Frequency Stability	§15.407(g)	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 1.2 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

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### 1.3 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 0.37\text{dB}$
2	RF Power, Conducted	$\pm 3.35\text{dB}$
3	Spurious Emissions, Conducted	$\pm 2.20\text{dB}$
4	All Emissions, Radiated(<1G)	$\pm 3.90\text{dB}$
5	All Emissions, Radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

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## 2. EUT Description

### 2.1 General Description of EUT

Equipment:	Dash Cam
Model Name:	F7N Pro
Series Model(s):	A1, F11, A2, F17 Plus, GuardiLux 10, GuardiLux 10 Pro, F9 Pro, F9 Elite, F7NP, F70
Model Difference:	All model's the function, software and electric circuit are the same, only with product model named different. Test sample model: F7N Pro.
Trade Mark:	Redtiger
FCC ID:	2BBBN-F7NPRO
Operation Frequency:	IEEE 802.11a/n/ac(HT20)/ax (HE20)5.745GHz-5.825GHz IEEE 802.11n/ac(HT20)/ax (HE40)5.755GHz-5.795GHz
Modulation Technology:	IEEE 802.11a/n/ac/ax
Modulation Type:	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only 1024QAM for OFDMA in 11ax mode only
Antenna Type:	FPC Antenna
Antenna Gain:	2.16dBi
Power Source:	DC 12-24V From DC Power
Power Supply:	DC 12-24V From DC Power
Hardware Version:	V03
Software Version:	V03

#### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Antenna gain Refer to the antenna specifications.
3. The cable loss data is obtained from the supplier.
4. The test results in the report only apply to the tested sample.

## 2.2 Operation Frequency Each of Channel

802.11a/802.11n(HT20)/ 802.11ac(HT20)/ 802.11ax(HE20)	802.11n(HT40)/ 802.11ac(HT40)/ 802.11ax(HE40)
Channel	Frequency
149	5745
153	5765
157	5785
161	5805
165	5825

**Note:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

## 2.3 Operation of EUT during Testing

Band IV (5725 - 5850MHz)		
For 802.11a/n (HT20)/ac(HT20)/ax(HE20)		
Channel Number	Channel	Frequency (MHz)
149	Low	5745
157	Mid	5785
165	High	5825

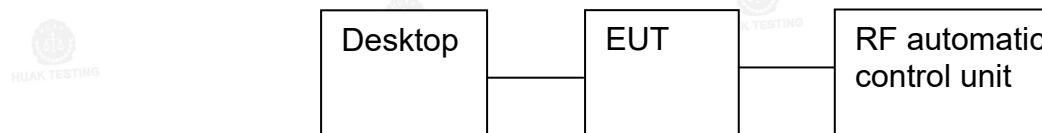
For 802.11n(HT40)/ac(HT40)/ax(HE40)		
Channel Number	Channel	Frequency (MHz)
151	Low	5755
159	High	5795

## 2.4 Description of Test Setup

## Operation of EUT during testing:



### Operation of EUT during RF conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position



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## 2.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	Dash Cam	Redtiger	F7N Pro	N/A	EUT
2	Car Charger	N/A	N/A	Input: DC 12-24V Output: DC 5V 2.5A USB: DC 5V 2.0A	Accessory
3	Desktop	N/A	DESKTOP-R5DQ5P1	N/A	Peripheral

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



### 3. General Information

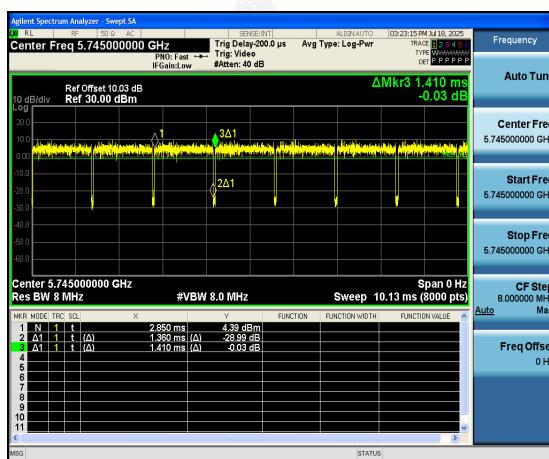
### 3.1 Test Environment and Mode

<b>Operating Environment:</b>	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
<b>Test Mode:</b>	
Engineering Mode:	Keep the EUT in continuous transmitting by select channel and modulations
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
<b>Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.</b>	
Mode	Data Rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(HT20)/ac(HT40)	MCS0
802.11ax(HE20)/ax(HE40)	MCS0
<b>Final Test Mode:</b>	
Operation Mode:	Keep the EUT in continuous transmitting with modulation
<b>Mode Test Duty Cycle:</b>	
Mode	Duty Cycle
802.11a	0.9645
802.11n(HT20)	0.9624
802.11n(HT40)	0.9265
802.11ac(HT20)	0.9549
802.11ac(HT40)	0.9275
802.11ax(HE20)	0.9306
802.11ax(HE40)	0.8500

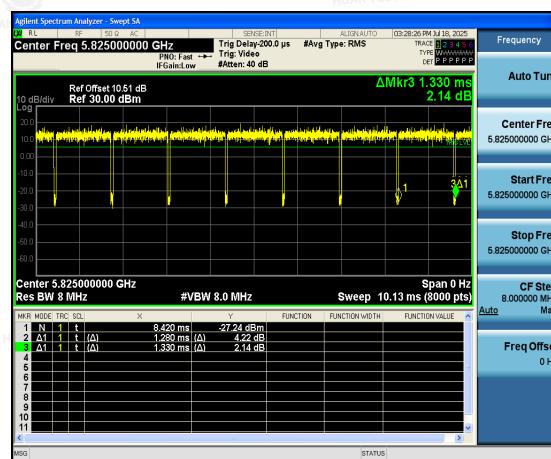
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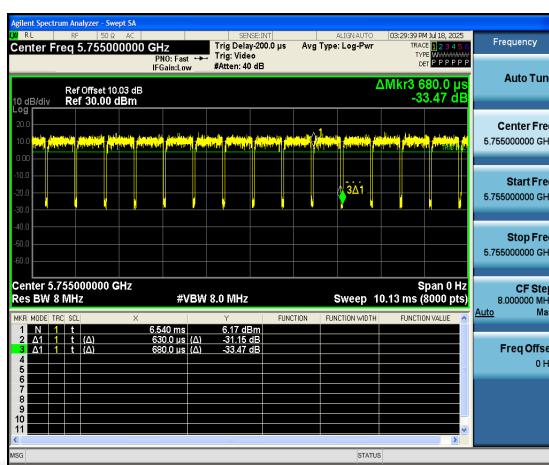
## 802.11a



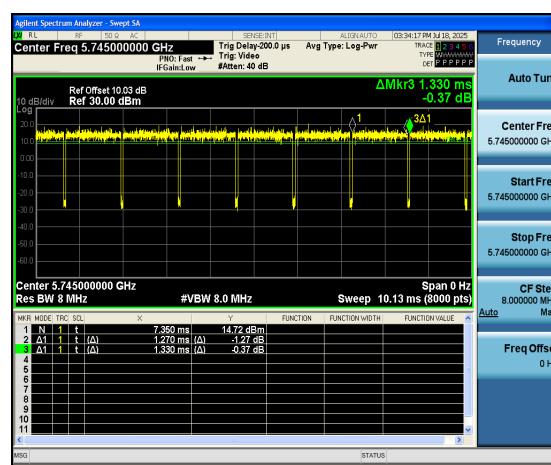
## 802.11n(HT20)



## 802.11n(HT40)



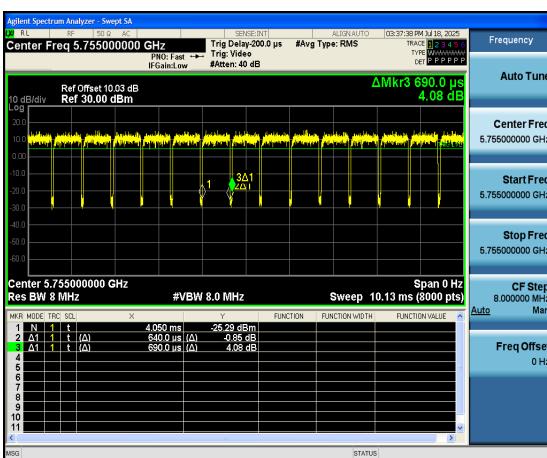
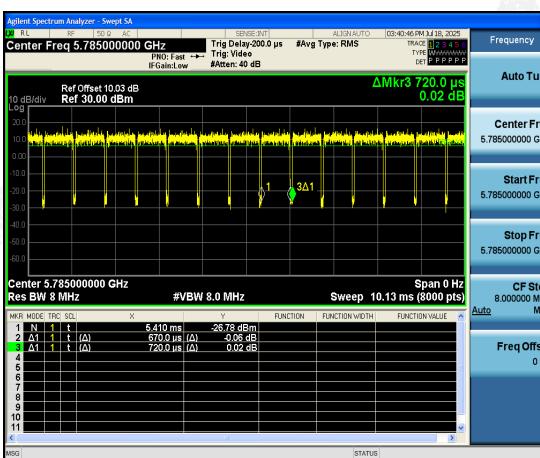
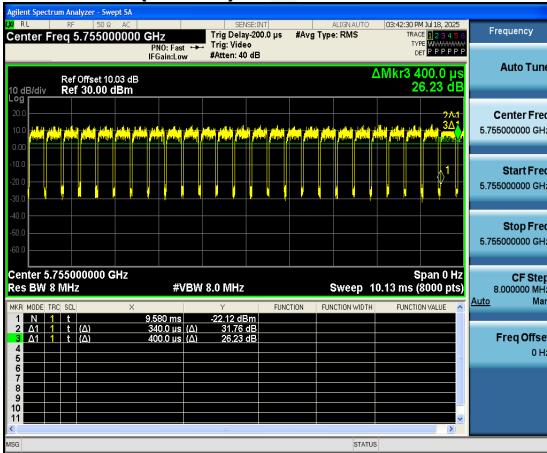
## 802.11ac(HT20)



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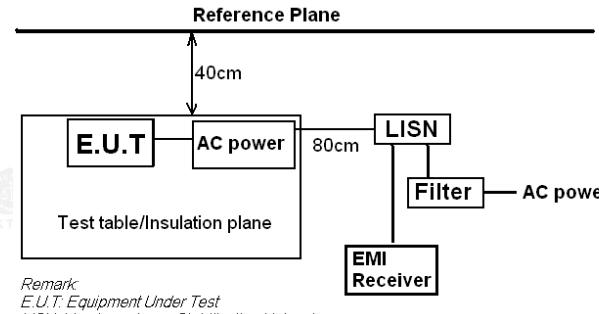
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**802.11ac(HT40)****802.11ax(HE20)****802.11ax(HE40)**

## 4. Test Results and Measurement Data

### 4.1 AC Conducted Emission

#### 4.1.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.207														
<b>Test Method:</b>	ANSI C63.10: 2020														
<b>Frequency Range:</b>	150 kHz to 30 MHz														
<b>Receiver Setup:</b>	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
<b>Limits:</b>	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
<b>Test Setup:</b>	 <p>Reference Plane</p> <p>40cm</p> <p>E.U.T — AC power — LISN — Filter — AC power</p> <p>Test table/Insulation plane</p> <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
<b>Test Mode:</b>	Transmitting with modulation														
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2020 on conducted measurement.</li> </ol>														
<b>Test Result:</b>	N/A														

#### 4.1.2. Test Instruments

##### Conducted Emission Shielding Room Test Site (843)

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	Feb. 18, 2026
LISN	R&S	ENV216	HKE-002	Feb. 19, 2025	Feb. 18, 2026
LISN	R&S	ENV216	HKE-059	Feb. 19, 2025	Feb. 18, 2026
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 19, 2025	Feb. 18, 2026
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 19, 2025	Feb. 18, 2026

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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#### 4.1.3. Test Data

Not applicable.

Note: Since EUT is only for on-car use, so this test item not applicable.

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#### 4.2.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
Power meter	Agilent	E4419B	HKE-085	Feb. 19, 2025	Feb. 18, 2026
Power Sensor	Agilent	E9300A	HKE-086	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Configuration Band IV (5745 - 5825 MHz)				
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
802.11a	CH149	9.38	30	PASS
802.11a	CH157	7.53	30	PASS
802.11a	CH165	6.67	30	PASS
802.11n(HT20)	CH149	9.47	30	PASS
802.11n(HT20)	CH157	7.72	30	PASS
802.11n(HT20)	CH165	6.63	30	PASS
802.11n(HT40)	CH151	9.26	30	PASS
802.11n(HT40)	CH159	9.16	30	PASS
802.11ac(HT20)	CH149	9.66	30	PASS
802.11ac(HT20)	CH157	8.82	30	PASS
802.11ac(HT20)	CH165	7.51	30	PASS
802.11ac(HT40)	CH151	9.48	30	PASS
802.11ac(HT40)	CH159	8.53	30	PASS
802.11ax(HE20)	CH149	9.06	30	PASS
802.11ax(HE20)	CH157	8.42	30	PASS
802.11ax(HE20)	CH165	7.87	30	PASS
802.11ax(HE40)	CH151	9.80	30	PASS
802.11ax(HE40)	CH159	8.89	30	PASS

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## 4.3 6dB Emission Bandwidth

### 4.3.1. Test Specification

<b>Test Requirement:</b>	FCC CFR47 Part 15 Section 15.407(e)
<b>Test Method:</b>	KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section C
<b>Limit:</b>	>500kHz
<b>Test Setup:</b>	 <p><b>Spectrum Analyzer</b>      <b>EUT</b></p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>4. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

### 4.3.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

#### 4.3.3. Test Data

<b>Band IV (5745 - 5825 MHz )</b>					
Mode	Test channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	CH149	5745	16.36	0.5	PASS
802.11a	CH157	5785	16.36	0.5	PASS
802.11a	CH165	5825	16.36	0.5	PASS
802.11n(HT20)	CH149	5745	17.60	0.5	PASS
802.11n(HT20)	CH157	5785	17.56	0.5	PASS
802.11n(HT20)	CH165	5825	17.60	0.5	PASS
802.11n(HT40)	CH151	5755	36.32	0.5	PASS
802.11n(HT40)	CH159	5795	36.32	0.5	PASS
802.11ac(HT20)	CH149	5745	17.68	0.5	PASS
802.11ac(HT20)	CH157	5785	17.64	0.5	PASS
802.11ac(HT20)	CH165	5825	17.64	0.5	PASS
802.11ac(HT40)	CH151	5755	36.40	0.5	PASS
802.11ac(HT40)	CH159	5795	36.32	0.5	PASS
802.11ax(HE20)	CH149	5745	19.00	0.5	PASS
802.11ax(HE20)	CH157	5785	18.96	0.5	PASS
802.11ax(HE20)	CH165	5825	19.04	0.5	PASS
802.11ax(HE40)	CH151	5755	37.68	0.5	PASS
802.11ax(HE40)	CH159	5795	37.92	0.5	PASS

**Test plots as follows:**



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## Band IV (5725 – 5850 MHz)



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## 802.11n(HT20)



Frequency

Auto Tune

Center Freq

Start Freq

Stop Freq

CF Step

Auto

Freq Offset

0 Hz

HUAK TESTING

HUAK TESTING

HUAK TESTING

HUAK TESTING

LOW



Frequency

Auto Tune

Center Freq

Start Freq

Stop Freq

CF Step

Auto

Freq Offset

0 Hz

HUAK TESTING

HUAK TESTING

Mid



Frequency

Auto Tune

Center Freq

Start Freq

Stop Freq

CF Step

Auto

Freq Offset

0 Hz

HUAK TESTING

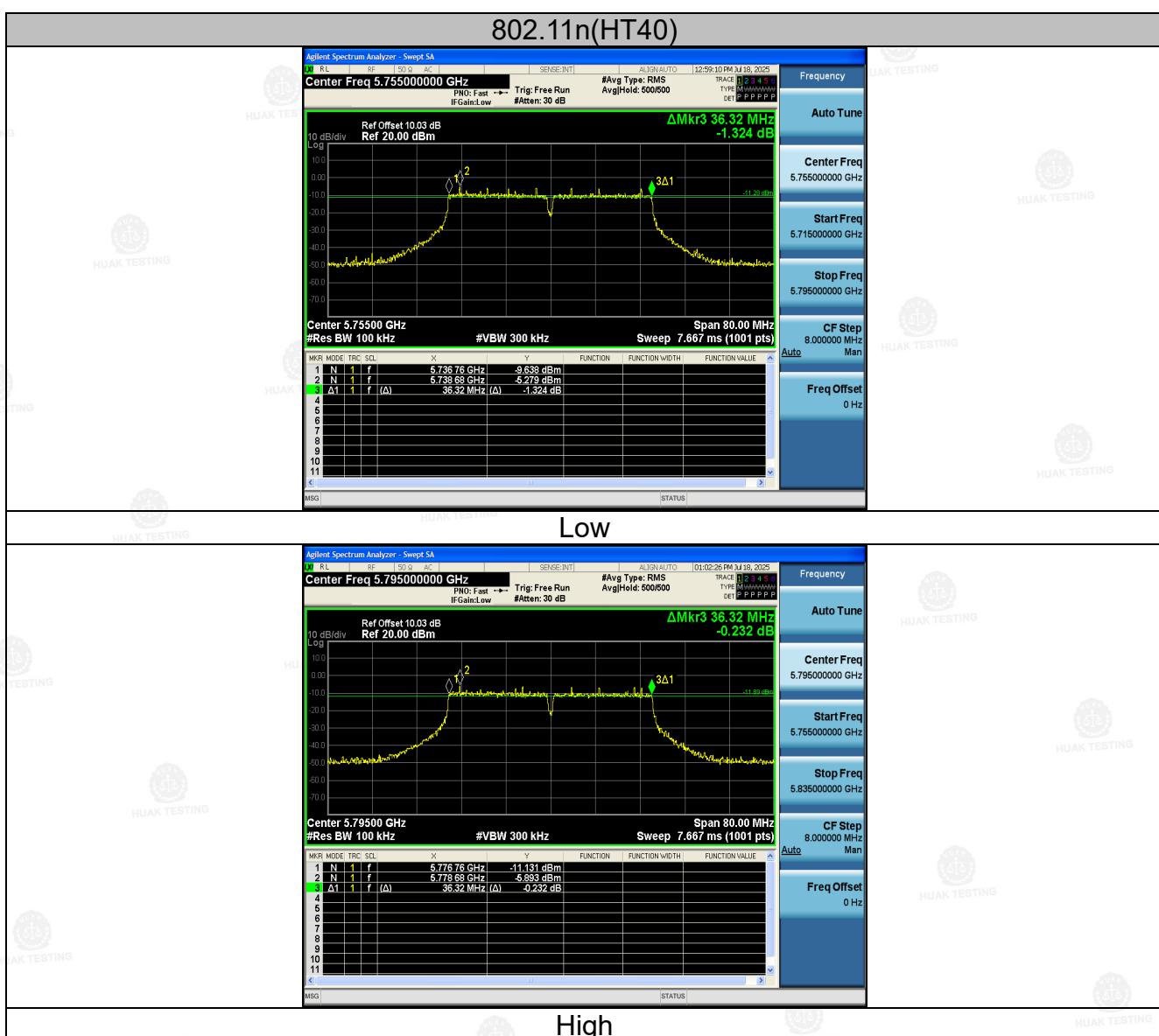
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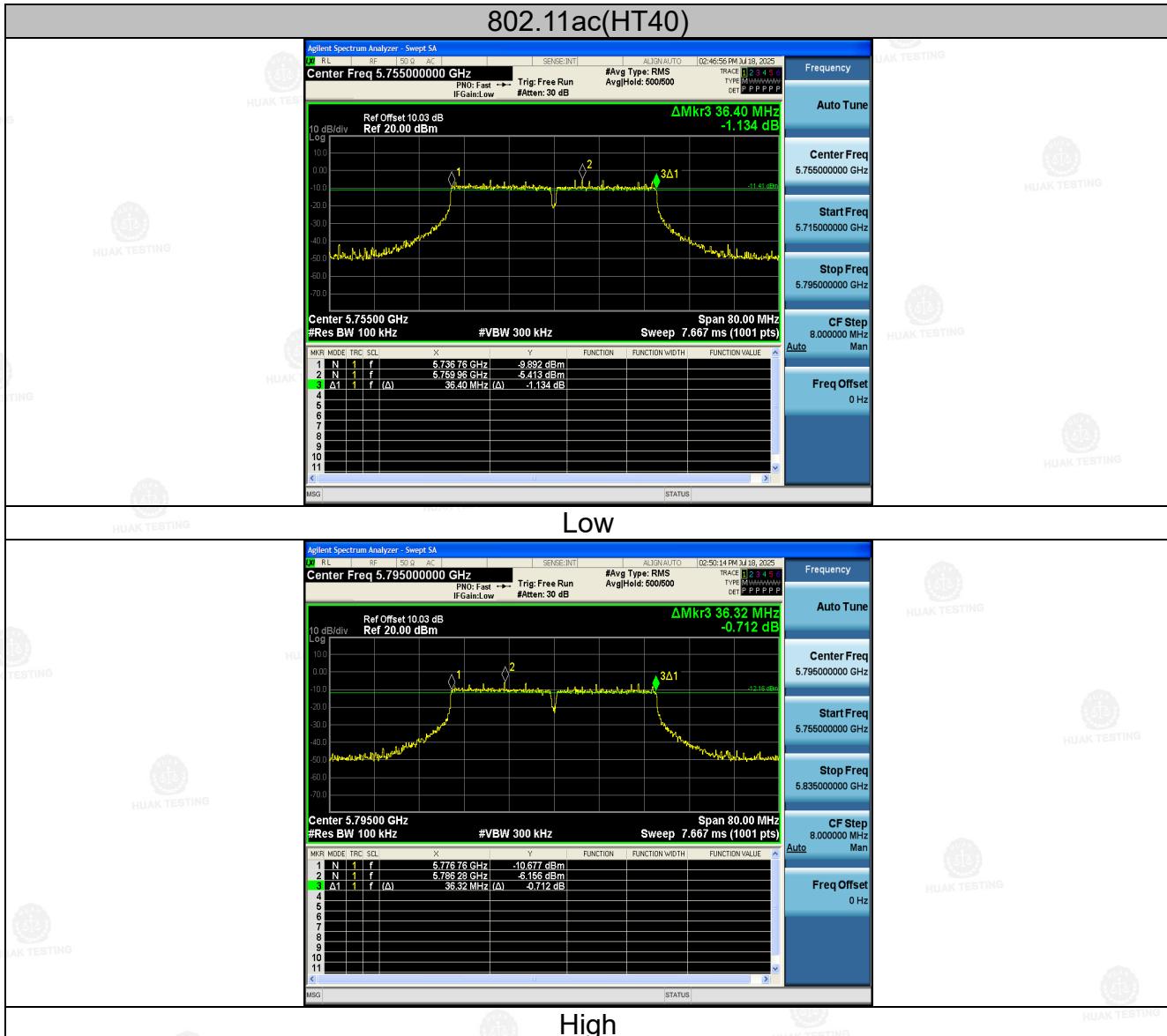


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## 802.11ac(HT40)



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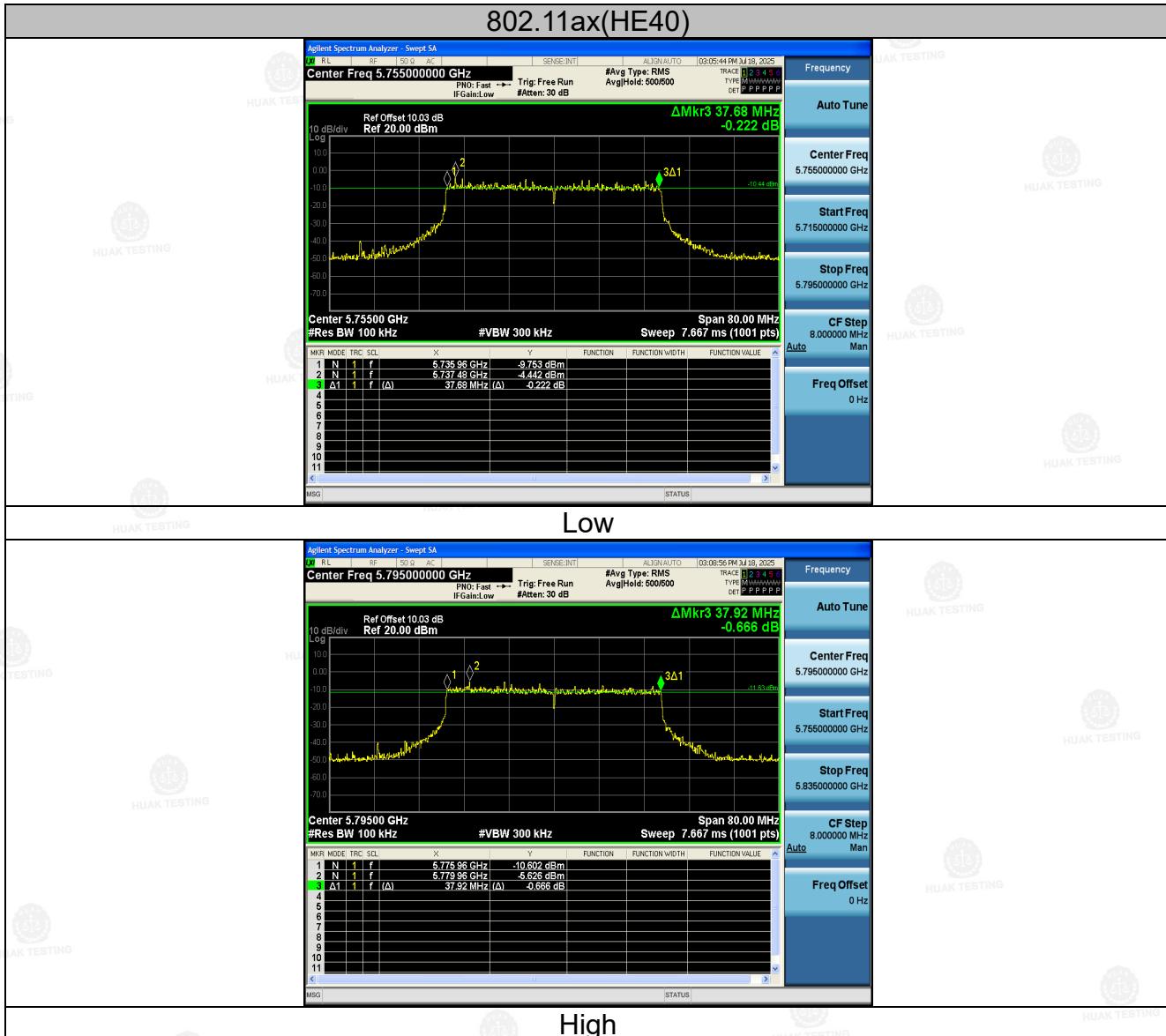
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## 802.11ax(HE40)



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#### 4.4 26dB Bandwidth and 99% Occupied Bandwidth

#### 4.4.1. Test Specification

#### 4.4.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

#### 4.4.3. Test Result

N/A

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## 4.5 Power Spectral Density

#### 4.5.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 E Section 15.407 (a)
<b>Test Method:</b>	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
<b>Limit:</b>	$\leq 30.00 \text{dBm}/500\text{KHz}$ for Band IV 5725MHz-5850MHz
<b>Test Setup:</b>	 <p>The diagram illustrates the test setup. A green 'Spectrum Analyzer' is connected to a yellow 'EUT' (Equipment Under Test) via a grey cable with a white connector. The 'Spectrum Analyzer' has two small red circles on its front panel, and the 'EUT' has a small red circle on its front panel. The text 'Spectrum Analyzer' is written below the device, and 'EUT' is written to its right.</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.</li> <li>2. Set RBW = 510 kHz/1 MHz, VBW <math>\geq 3 \times \text{RBW}</math>, Sweep time = Auto, Detector = RMS.</li> <li>3. Allow the sweeps to continue until the trace stabilizes.</li> <li>4. Use the peak marker function to determine the maximum amplitude level.</li> <li>5. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.</li> </ol>
<b>Test Result:</b>	PASS

#### 4.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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**4.5.3. Test Data**

Configuration Band IV (5745 - 5825 MHz)						
Mode	Test channel	Level [dBm/510kHz]	10log (500/510)	Power Spectral Density	Limit (dBm/500kHz)	Result
802.11a	CH149	7.22	-0.086	7.134	30	PASS
802.11a	CH157	5.30	-0.086	5.214	30	PASS
802.11a	CH165	4.68	-0.086	4.594	30	PASS
802.11nHT20	CH149	6.77	-0.086	6.684	30	PASS
802.11n HT20	CH157	5.66	-0.086	5.574	30	PASS
802.11nHT20	CH165	4.45	-0.086	4.364	30	PASS
802.11nHT40	CH151	6.26	-0.086	6.174	30	PASS
802.11nHT40	CH159	6.01	-0.086	5.924	30	PASS
802.11acHT20	CH149	8.78	-0.086	8.694	30	PASS
802.11acHT20	CH157	7.06	-0.086	6.974	30	PASS
802.11acHT20	CH165	5.03	-0.086	4.944	30	PASS
802.11acHT40	CH151	7.92	-0.086	7.834	30	PASS
802.11acHT40	CH159	6.31	-0.086	6.224	30	PASS
802.11axHE20	CH149	10.50	-0.086	10.414	30	PASS
802.11axHE20	CH157	9.59	-0.086	9.504	30	PASS
802.11axHE20	CH165	8.65	-0.086	8.564	30	PASS
802.11axHE40	CH151	9.18	-0.086	9.094	30	PASS
802.11axHE40	CH159	7.93	-0.086	7.844	30	PASS

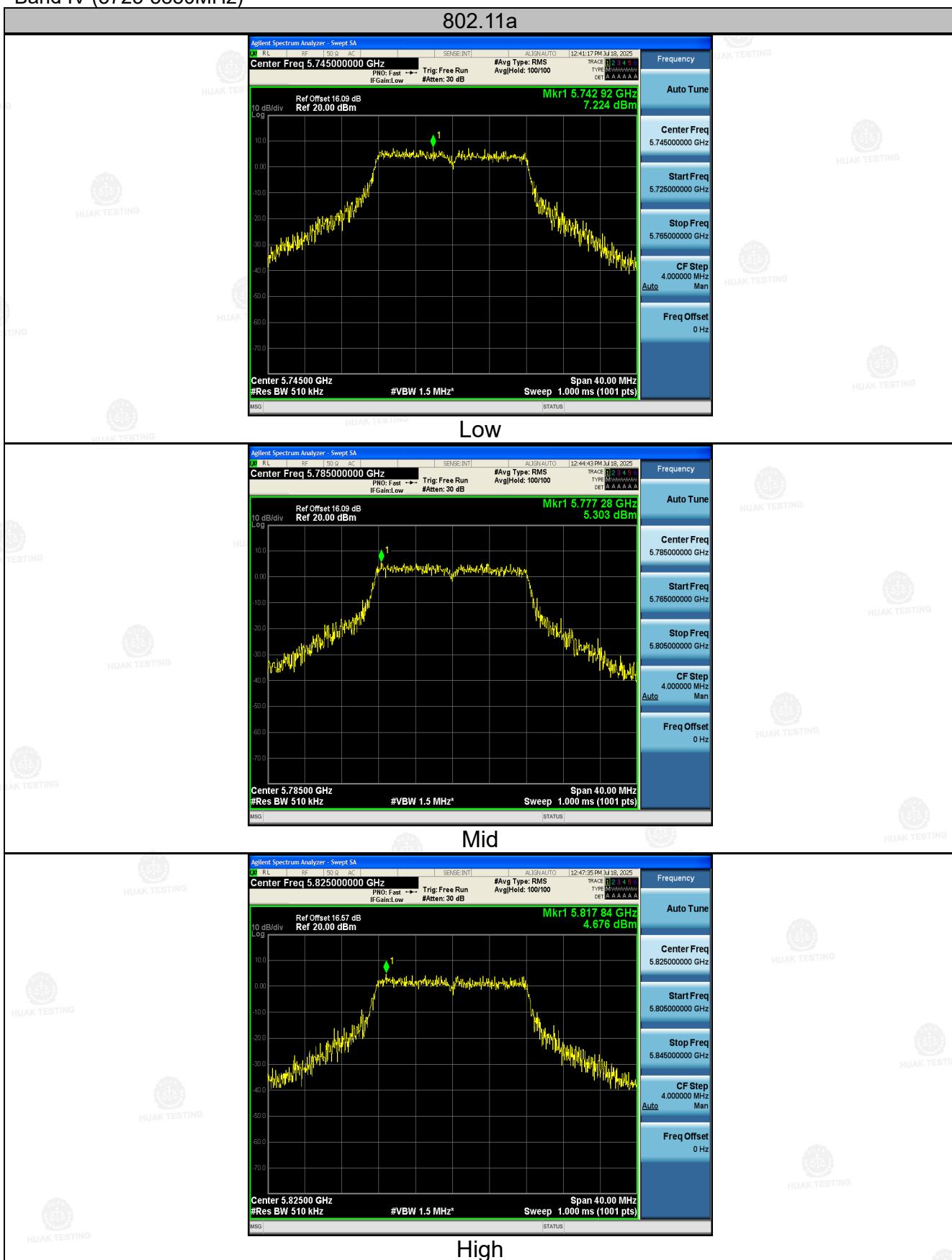
**Note: Power Spectral Density= Level [dBm/510kHz]+(10log(Limit RBW/Test RBW))**

**Test plots as follows:**

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Band IV (5725-5850MHz)

802.11a



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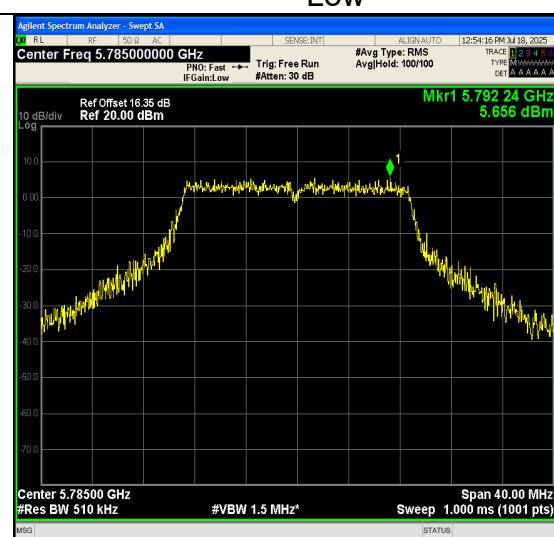
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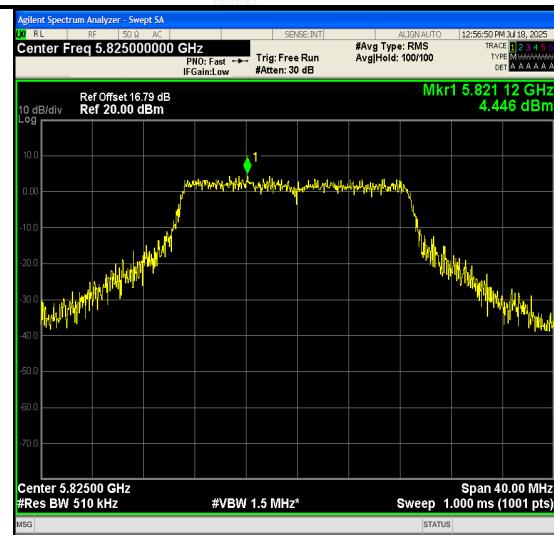
## 802.11n(HT20)



Low



Mid



High

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## 802.11n(HT40)



LOW



HIGH



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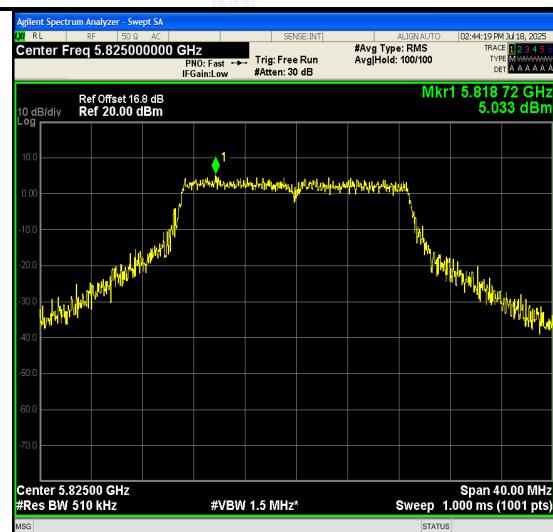
## 802.11ac(HT20)



LOW



Mid



High

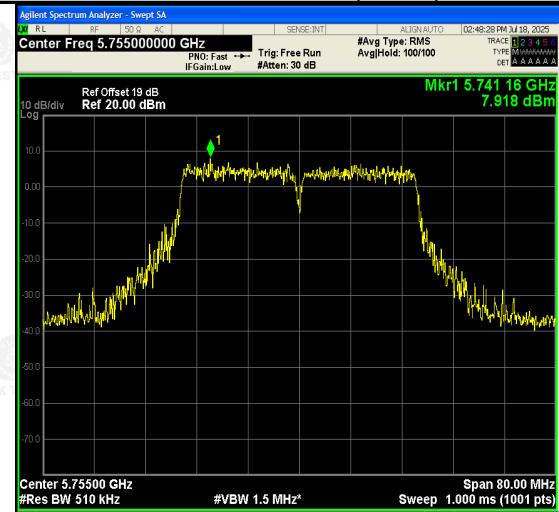
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## 802.11ac(HT40)



LOW



High

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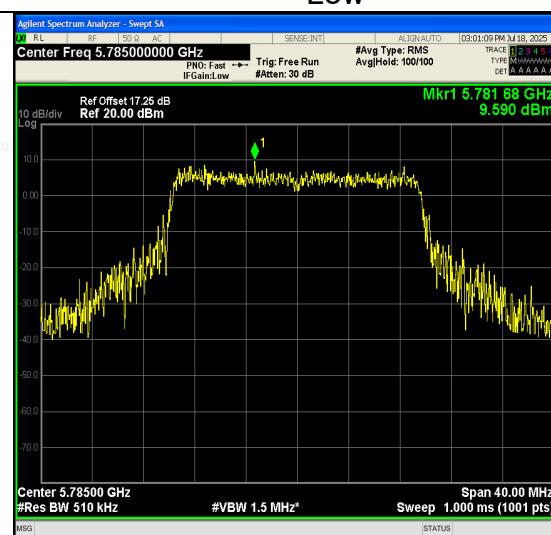
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## 802.11ax(HE20)



LOW



Mid



High

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## 802.11ax(HE40)



Frequency

Auto Tune

Center Freq

Start Freq

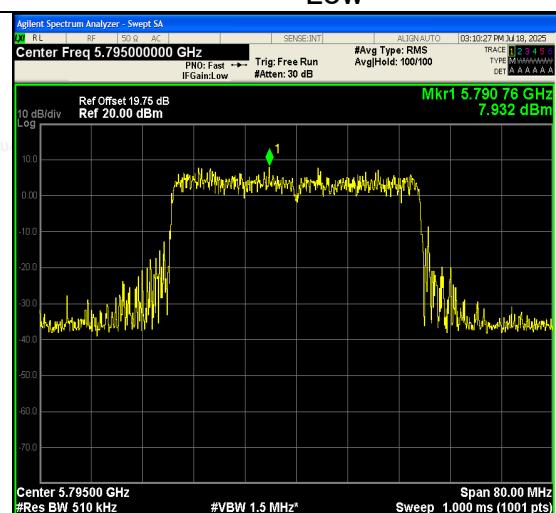
Stop Freq

CF Step

Freq Offset

0 Hz

LOW



Frequency

Auto Tune

Center Freq

Start Freq

Stop Freq

CF Step

Auto

Freq Offset

0 Hz

High

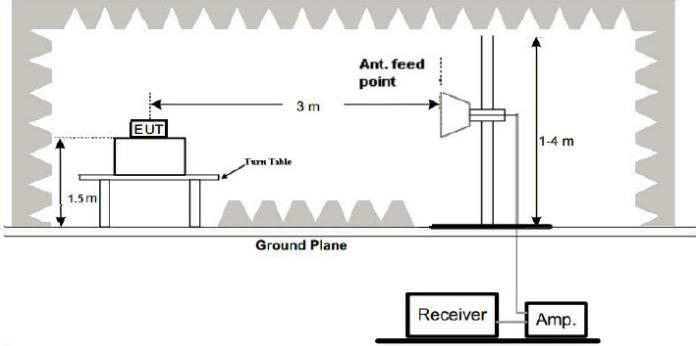
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## 4.6 Band Edge

#### 4.6.1. Test Specification

<b>Test Requirement:</b>	FCC CFR47 Part 15E Section 15.407
<b>Test Method:</b>	ANSI C63.10: 2020
<b>Limit:</b>	<p>(1) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.</p>
<b>Test Setup:</b>	
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> </ol>



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	<p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.</p>
<b>Test Result:</b>	PASS



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## 4.6.2. Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	Feb. 18, 2026
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	Feb. 18, 2026
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	Feb. 18, 2026
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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### 4.6.3. Test Data

Operation Mode: 802.11a Mode with 5.8G TX CH Low

## Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	49.65	-2.06	47.59	68.2	-20.61	peak
5700	78.4	-1.96	76.44	105.2	-28.76	peak
5720	83	-2.87	80.13	110.8	-30.67	peak
5725	102.71	-2.14	100.57	122.2	-21.63	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

## Vertical:

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
5650	49.55	-2.06	47.49	68.2	-20.71	peak
5700	79.21	-1.96	77.25	105.2	-27.95	peak
5720	82.39	-2.87	79.52	110.8	-31.28	peak
5725	100.1	-2.14	97.96	122.2	-24.24	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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**Horizontal**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	100	-1.97	98.03	122.2	-24.17	peak
5855	83.2	-2.13	81.07	110.8	-29.73	peak
5875	76.65	-2.65	74	105.2	-31.2	peak
5925	44.72	-2.28	42.44	68.2	-25.76	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**Vertical:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	101.69	-1.97	99.72	122.2	-22.48	peak
5855	84	-2.13	81.87	110.8	-28.93	peak
5875	75.11	-2.65	72.46	105.2	-32.74	peak
5925	44.83	-2.28	42.55	68.2	-25.65	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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Operation Mode: 802.11n/HT20 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	50.64	-2.06	48.58	68.2	-19.62	peak
5700	79	-1.96	77.04	105.2	-28.16	peak
5720	80.55	-2.87	77.68	110.8	-33.12	peak
5725	101	-2.14	98.86	122.2	-23.34	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	49.65	-2.06	47.59	68.2	-20.61	peak
5700	78.59	-1.96	76.63	105.2	-28.57	peak
5720	80.91	-2.87	78.04	110.8	-32.76	peak
5725	100.07	-2.14	97.93	122.2	-24.27	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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**Horizontal:**

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
5850	102.95	-1.97	100.98	122.2	-21.22	
5855	81.17	-2.13	79.04	110.8	-31.76	peak
5875	73.78	-2.65	71.13	105.2	-34.07	peak
5925	44.03	-2.28	41.75	68.2	-26.45	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**Vertical:**

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
5850	101.74	-1.97	99.77	122.2	-22.43	
5855	83.65	-2.13	81.52	110.8	-29.28	peak
5875	74.47	-2.65	71.82	105.2	-33.38	peak
5925	43.81	-2.28	41.53	68.2	-26.67	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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Operation Mode: 802.11n/HT40 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	48.67	-2.06	46.61	68.2	-21.59	peak
5700	79.91	-1.96	77.95	105.2	-27.25	peak
5720	81.77	-2.87	78.9	110.8	-31.9	peak
5725	101.93	-2.14	99.79	122.2	-22.41	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	47.97	-2.06	45.91	68.2	-22.29	peak
5700	80.35	-1.96	78.39	105.2	-26.81	peak
5720	82.29	-2.87	79.42	110.8	-31.38	peak
5725	100.61	-2.14	98.47	122.2	-23.73	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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**Horizontal:**

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
5850	99.98	-1.97	98.01	122.2	-24.19	
5855	81.79	-2.13	79.66	110.8	-31.14	peak
5875	75.28	-2.65	72.63	105.2	-32.57	peak
5925	41.91	-2.28	39.63	68.2	-28.57	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**Vertical:**

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
5850	101.45	-1.97	99.48	122.2	-22.72	
5855	81.84	-2.13	79.71	110.8	-31.09	peak
5875	74.52	-2.65	71.87	105.2	-33.33	peak
5925	42.33	-2.28	40.05	68.2	-28.15	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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**Horizontal:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	49.49	-2.06	47.43	68.2	-20.77	peak
5700	80.62	-1.96	78.66	105.2	-26.54	peak
5720	84.58	-2.87	81.71	110.8	-29.09	peak
5725	101.59	-2.14	99.45	122.2	-22.75	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**Vertical:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	47.65	-2.06	45.59	68.2	-22.61	peak
5700	81.03	-1.96	79.07	105.2	-26.13	peak
5720	80.95	-2.87	78.08	110.8	-32.72	peak
5725	98.81	-2.14	96.67	122.2	-25.53	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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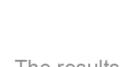
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Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	100.61	-1.97	98.64	122.2	-23.56	peak
5855	82.75	-2.13	80.62	110.8	-30.18	peak
5875	74.17	-2.65	71.52	105.2	-33.68	peak
5925	41.92	-2.28	39.64	68.2	-28.56	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	103.43	-1.97	101.46	122.2	-20.74	peak
5855	83.35	-2.13	81.22	110.8	-29.58	peak
5875	75.14	-2.65	72.49	105.2	-32.71	peak
5925	43.66	-2.28	41.38	68.2	-26.82	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit



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**Horizontal:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	102.81	-1.97	100.84	122.2	-21.36	peak
5855	82.9	-2.13	80.77	110.8	-30.03	peak
5875	75.69	-2.65	73.04	105.2	-32.16	peak
5925	44.22	-2.28	41.94	68.2	-26.26	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**Vertical:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	102.31	-1.97	100.34	122.2	-21.86	peak
5855	82.86	-2.13	80.73	110.8	-30.07	peak
5875	78.14	-2.65	75.49	105.2	-29.71	peak
5925	44.63	-2.28	42.35	68.2	-25.85	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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**HUAK TESTING**

Operation Mode: 802.11ax/HE20 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	45.72	-2.06	43.66	68.2	-24.54	peak
5700	78	-1.96	76.04	105.2	-29.16	peak
5720	79.69	-2.87	76.82	110.8	-33.98	peak
5725	100.62	-2.14	98.48	122.2	-23.72	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	45.72	-2.06	43.66	68.2	-24.54	peak
5700	79.37	-1.96	77.41	105.2	-27.79	peak
5720	82.76	-2.87	79.89	110.8	-30.91	peak
5725	104.23	-2.14	102.09	122.2	-20.11	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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**Horizontal:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	100.51	-1.97	98.54	122.2	-23.66	peak
5855	84.29	-2.13	82.16	110.8	-28.64	peak
5875	72.71	-2.65	70.06	105.2	-35.14	peak
5925	44.19	-2.28	41.91	68.2	-26.29	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**Vertical:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	99.62	-1.97	97.65	122.2	-24.55	peak
5855	81.86	-2.13	79.73	110.8	-31.07	peak
5875	76.14	-2.65	73.49	105.2	-31.71	peak
5925	44.12	-2.28	41.84	68.2	-26.36	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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**Horizontal:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	49.68	-2.06	47.62	68.2	-20.58	peak
5700	80.14	-1.96	78.18	105.2	-27.02	peak
5720	80.59	-2.87	77.72	110.8	-33.08	peak
5725	103.17	-2.14	101.03	122.2	-21.17	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**Vertical:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5650	50.69	-2.06	48.63	68.2	-19.57	peak
5700	79.57	-1.96	77.61	105.2	-27.59	peak
5720	82.92	-2.87	80.05	110.8	-30.75	peak
5725	102.85	-2.14	100.71	122.2	-21.49	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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**Horizontal:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	102.12	-1.97	100.15	122.2	-22.05	peak
5855	84.49	-2.13	82.36	110.8	-28.44	peak
5875	72.57	-2.65	69.92	105.2	-35.28	peak
5925	42.89	-2.28	40.61	68.2	-27.59	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**Vertical:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
5850	103.33	-1.97	101.36	122.2	-20.84	peak
5855	81.82	-2.13	79.69	110.8	-31.11	peak
5875	75.39	-2.65	72.74	105.2	-32.46	peak
5925	44.65	-2.28	42.37	68.2	-25.83	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

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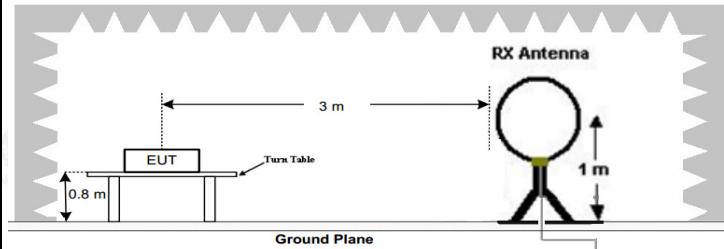


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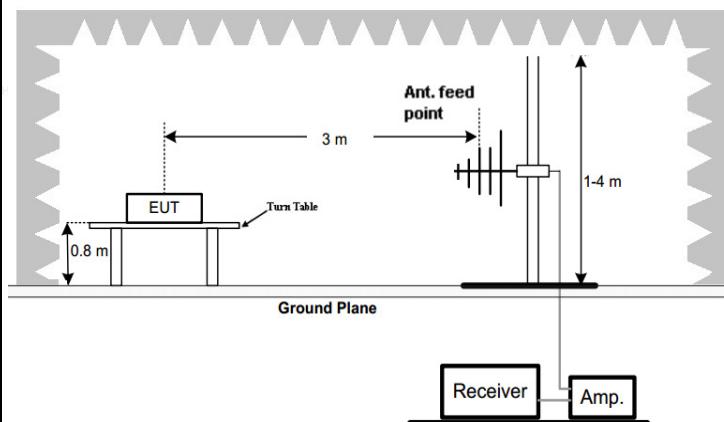


## Test Setup:

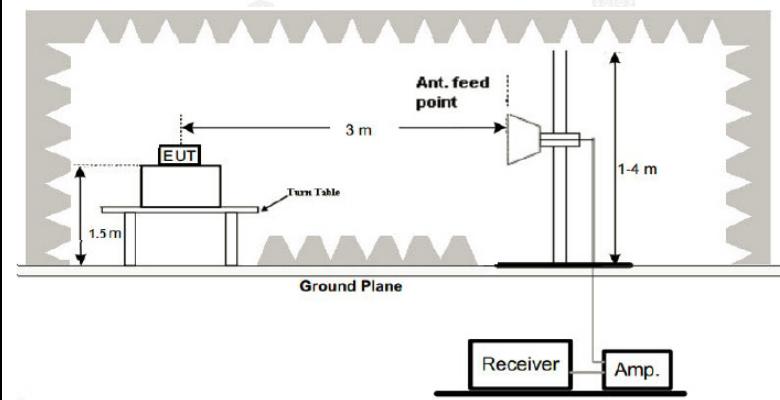
For radiated emissions below 30MHz



30MHz to 1GHz



Above 1GHz



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<b>Test Procedure:</b>	<p>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>
<b>Test Results:</b>	PASS

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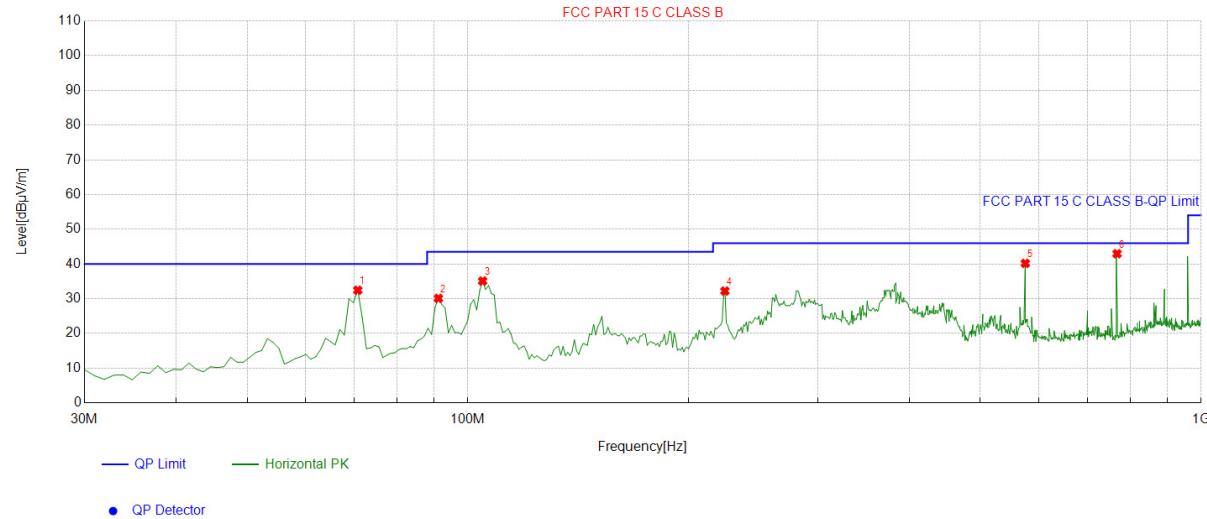
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## 4.7.2. Test Data

**Remark: All the test modes completed for test. Only the worst result of 802. 11a was reported as below:**

### Below 1GHz

Horizontal



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	70.7808	-16.89	49.32	32.43	40.00	7.57	100	33	Horizontal
2	91.1712	-16.91	46.99	30.08	43.50	13.42	100	164	Horizontal
3	104.7648	-14.69	49.77	35.08	43.50	8.42	100	124	Horizontal
4	224.1942	-14.01	46.21	32.20	46.00	13.80	100	80	Horizontal
5	575.6857	-5.53	45.71	40.18	46.00	5.82	100	196	Horizontal
6	767.9379	-4.54	47.49	42.95	46.00	3.05	100	160	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



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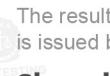
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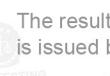
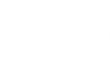
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## HUAK TESTING

### Above 1GHz

## Radiated Emission Test

LOW CH 149 (802.11 a Mode with 5.8G)/5745

### Horizontal:

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
3368	54.14	-4.59	49.55	68.2	-18.65	peak
11096	49.96	4.21	54.17	74	-19.83	peak
11096	32.13	4.21	36.34	54	-17.66	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

HUAK TEST

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits	Margin (dB)	Detector Type
3368	53.04	-4.59	48.45	68.2	-19.75	peak
11096	49.61	4.21	53.82	74	-20.18	peak
11096	32.45	4.21	36.66	54	-17.34	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level – Limit



## HUAK TESTING

MID CH157 (802.11 a Mode with 5.8G)/5785

### Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3172	53.18	-4.59	48.59	68.2	-19.61	peak
10523	53.36	4.21	57.57	68.2	-10.63	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3172	53.04	-4.59	48.45	68.2	-19.75	peak
10523	52.65	4.21	56.86	68.2	-11.34	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit





## HUAK TESTING

### 5.8G 802.11n/HT20 Mode

LOW CH 149

## Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3368	50.81	-4.59	46.22	68.2	-21.98	peak
11096	50.48	4.21	54.69	74	-19.31	peak
11096	28.95	4.21	33.16	54	-20.84	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
3368	54.02	-4.59	49.43	68.2	-18.77	peak
11096	50.72	4.21	54.93	74	-19.07	peak
11096	31.53	4.21	35.74	54	-18.26	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit



## HUAK TESTING

MID CH157

### Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3172	53.36	-4.59	48.77	68.2	-19.43	peak
10523	51.18	4.21	55.39	68.2	-12.81	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
3172	50.97	-4.59	46.38	68.2	-21.82	peak
10523	52.28	4.21	56.49	68.2	-11.71	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**HUAK TESTING****HIGH CH165**

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Report No.: HK2507143817-2E

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2705	60.17	-4.59	55.58	74	-18.42	peak
2705	44.23	-4.59	39.64	54	-14.36	AVG
11717	51.05	4.84	55.89	74	-18.11	peak
11717	34.82	4.84	39.66	54	-14.34	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2705	60	-4.59	55.41	74	-18.59	peak
2705	42.77	-4.59	38.18	54	-15.82	AVG
11717	50.18	4.84	55.02	74	-18.98	peak
11717	37.08	4.84	41.92	54	-12.08	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dB $\mu$ V/m(PK Value) < 93.98(AV Limit), at harmonic 53.20 dB $\mu$ V/m(PK Value) < 54 dB $\mu$ V/m(AV Limit), the Average Detected not need to completed.

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## HUAK TESTING

### 5.8G 802.11n/HT40 Mode

LOW CH 151

## Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3368	53.46	-4.59	48.87	68.2	-19.33	peak
11096	53.03	4.21	57.24	74	-16.76	peak
11096	30.96	4.21	35.17	54	-18.83	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

## Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3368	53.12	-4.59	48.53	68.2	-19.67	peak
11096	52.34	4.21	56.55	74	-17.45	peak
11096	29.75	4.21	33.96	54	-20.04	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit



## HUAK TESTING

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3172	51.13	-4.59	46.54	68.2	-21.66	peak
10523	50.92	4.21	55.13	68.2	-13.07	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
3172	53.17	-4.59	48.58	68.2	-19.62	peak
10523	53.08	4.21	57.29	68.2	-10.91	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



## HUAK TESTING

### 5.8G 802.11ac/HT20 Mode

LOW CH 149

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3368	52.21	-4.59	47.62	68.2	-20.58	peak
11096	53.12	4.21	57.33	74	-16.67	peak
11096	32.07	4.21	36.28	54	-17.72	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3368	50.52	-4.59	45.93	68.2	-22.27	peak
11096	50.72	4.21	54.93	74	-19.07	peak
11096	29.77	4.21	33.98	54	-20.02	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit



## HUAK TESTING

MID CH157

Horizontal:

Horizontal						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3172	52.04	-4.59	47.45	68.2	-20.75	peak
10523	51.22	4.21	55.43	68.2	-12.77	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

## Vertical:

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
3172	53.36	-4.59	48.77	68.2	-19.43	peak
10523	52.02	4.21	56.23	68.2	-11.97	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit



## HUAK TESTING

HIGH CH165

## Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2705	52.96	-4.59	48.37	74	-25.63	peak
2705	39.83	-4.59	35.24	54	-18.76	AVG
11717	46.71	4.84	51.55	74	-22.45	peak
11717	36.37	4.84	41.21	54	-12.79	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
2705	55.14	-4.59	50.55	74	-23.45	peak
2705	42.26	-4.59	37.67	54	-16.33	AVG
11717	46.61	4.84	51.45	74	-22.55	peak
11717	36.12	4.84	40.96	54	-13.04	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator = Preamplifier, Level = Reading + Factor, Margin = Level - Limit

### Remark:

(1) Measuring frequencies from 1 GHz to the 40 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.

(3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dB<sub>V</sub>/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB<sub>V</sub>/m(PK Value) <54 dB<sub>V</sub>/m(AV Limit), the Average Detected not need to completed.

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5.8G 802.11ac/HT40 Mode

LOW CH 151

Horizontal:

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
3368	53.38	-4.59	48.79	68.2	-19.41	peak
11096	51.18	4.21	55.39	74	-18.61	peak
11096	31.57	4.21	35.78	54	-18.22	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
3368	52.28	-4.59	47.69	68.2	-20.51	peak
11096	51.24	4.21	55.45	74	-18.55	peak
11096	30.68	4.21	34.89	54	-19.11	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dB $\mu$ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB $\mu$ V/m(PK Value) <54 dB $\mu$ V/m(AV Limit), the Average Detected not need to completed.



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MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3172	51.22	-4.59	46.63	68.2	-21.57	peak
10523	53.18	4.21	57.39	68.2	-10.81	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
3172	52.33	-4.59	47.74	68.2	-20.46	peak
10523	51.24	4.21	55.45	68.2	-12.75	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

**HUAK TESTING****HIGH CH165**

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Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2705	54.58	-4.59	49.99	74	-24.01	peak
2705	40.71	-4.59	36.12	54	-17.88	AVG
11717	50.05	4.84	54.89	74	-19.11	peak
11717	32.82	4.84	37.66	54	-16.34	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2705	56.71	-4.59	52.12	74	-21.88	peak
2705	40.58	-4.59	35.99	54	-18.01	AVG
11717	49.08	4.84	53.92	74	-20.08	peak
11717	34.44	4.84	39.28	54	-14.72	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dB $\mu$ V/m(PK Value) < 93.98(AV Limit), at harmonic 53.20 dB $\mu$ V/m(PK Value) < 54 dB $\mu$ V/m(AV Limit), the Average Detected not need to completed.

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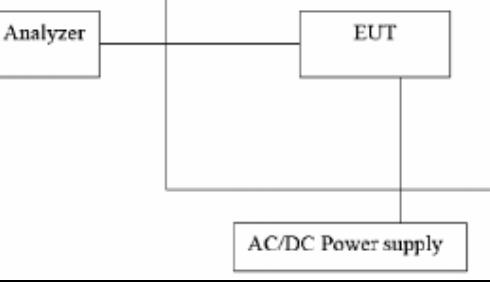
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## 4.8 Frequency Stability Measurement

#### 4.8.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 Section 15.407(g)
<b>Test Method:</b>	ANSI C63.10: 2020
<b>Limit:</b>	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
<b>Test Setup:</b>	 <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]     EUT --- ACDC[AC/DC Power supply]     EUT --- TC[Temperature Chamber]   </pre>
<b>Test Procedure:</b>	<p>The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.</p>
<b>Test Result:</b>	PASS
<b>Remark:</b>	N/A



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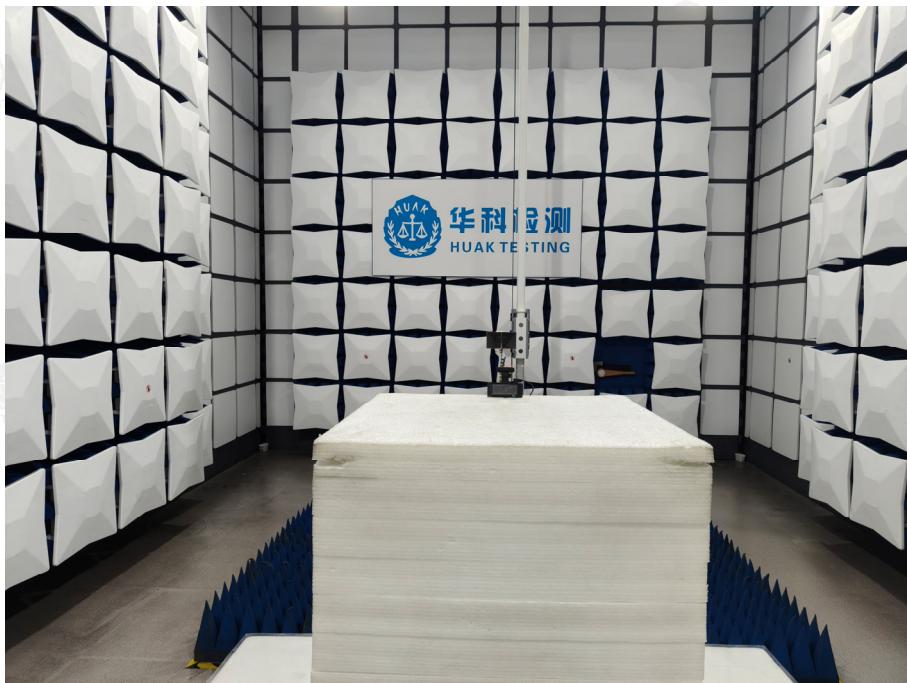
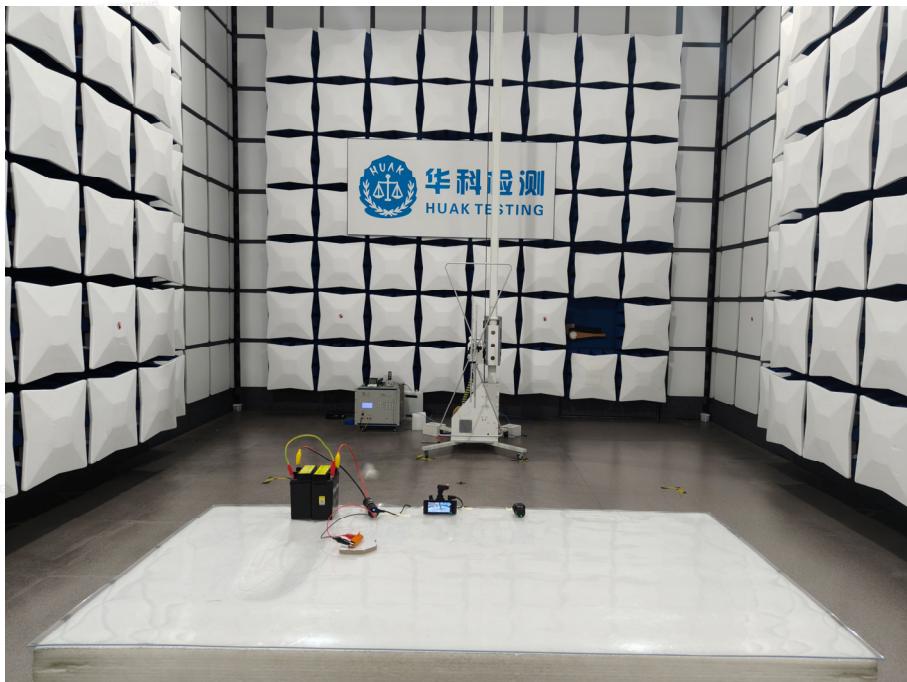


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## 5. Photographs of Test Setup

Radiated Emission





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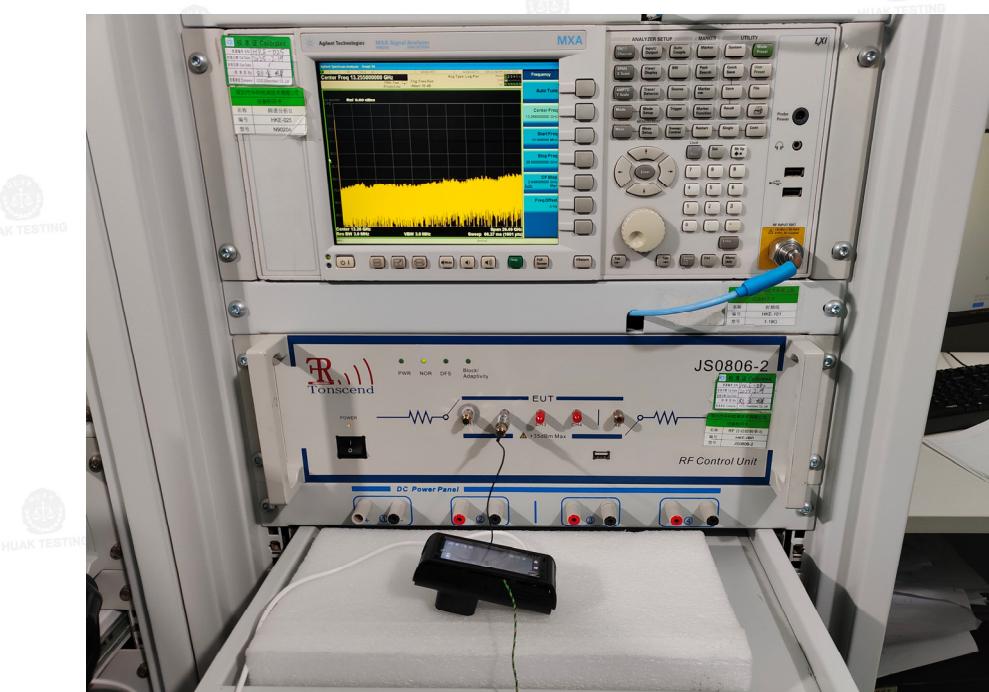
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Report No.: HK2507143817-2E

## RF Conducted Emission



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## 6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----



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